

Program Complot  
(Version 2018-1)

by

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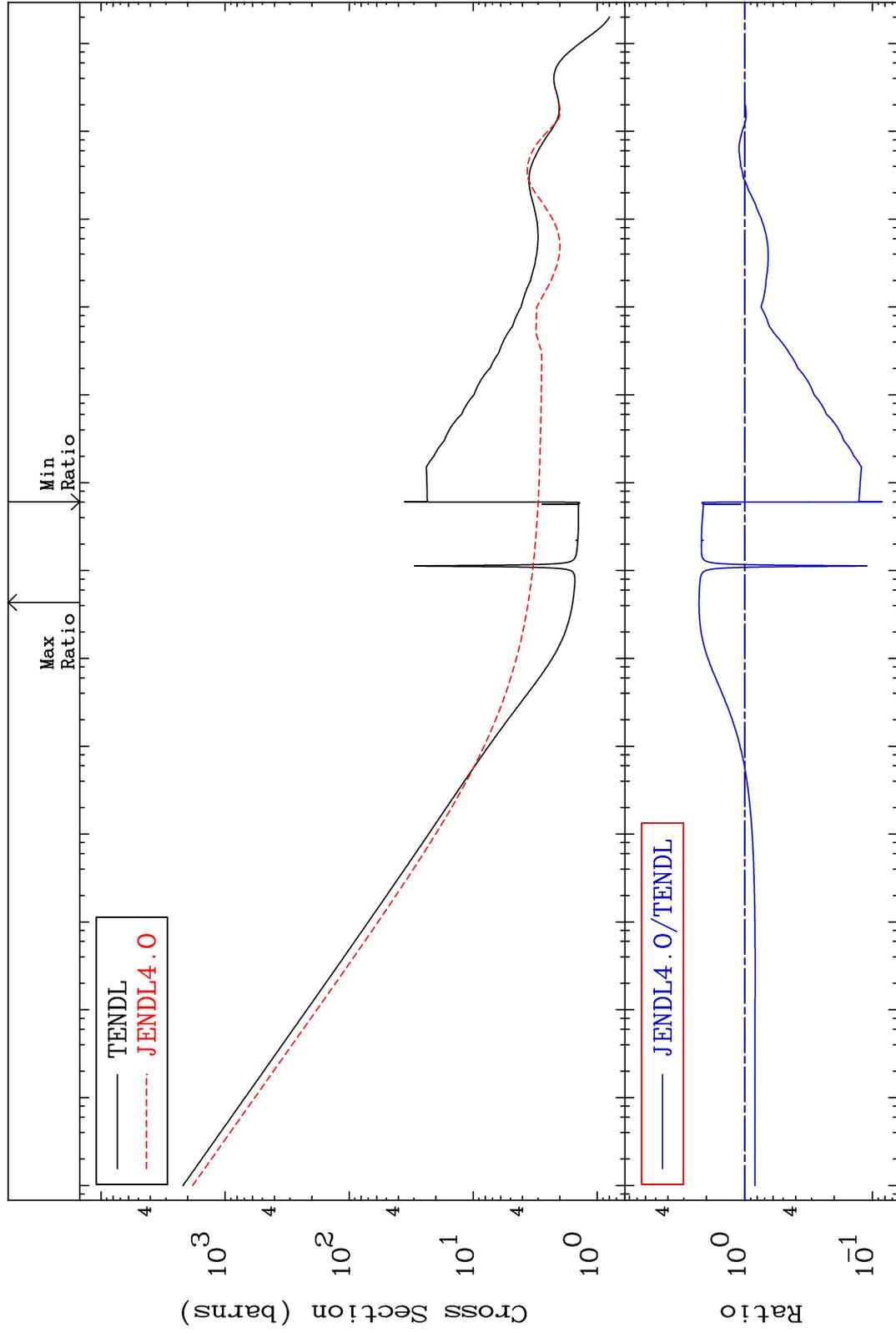
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 1928

Total  
Cross Section

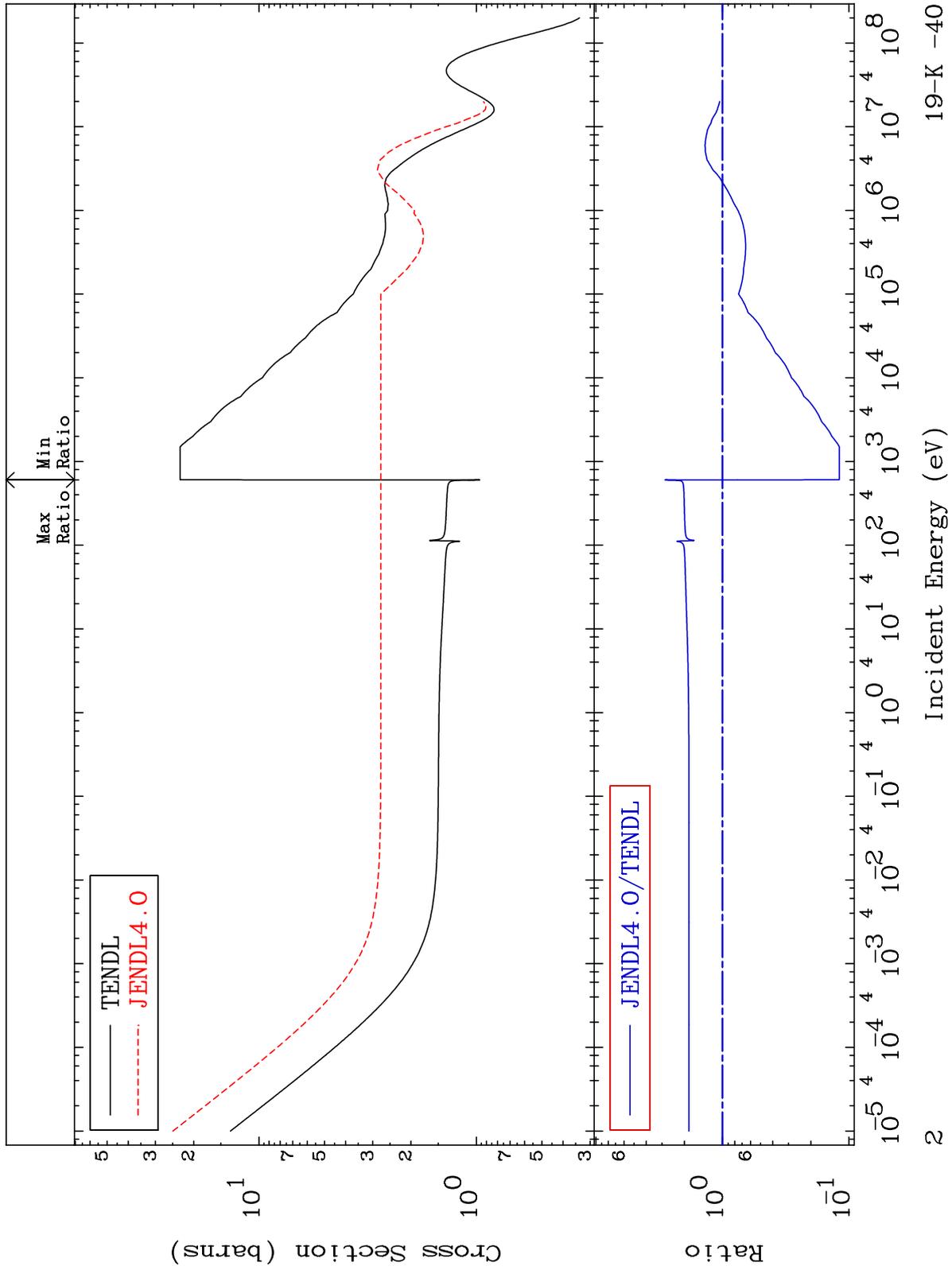
19-K -40  
-91.59 To 128.2 %



Incident Energy (eV)

19-K -40

MAT 1928 Elastic Cross Section 19-K -40 -88.08 To 185.3 %



19-K -40

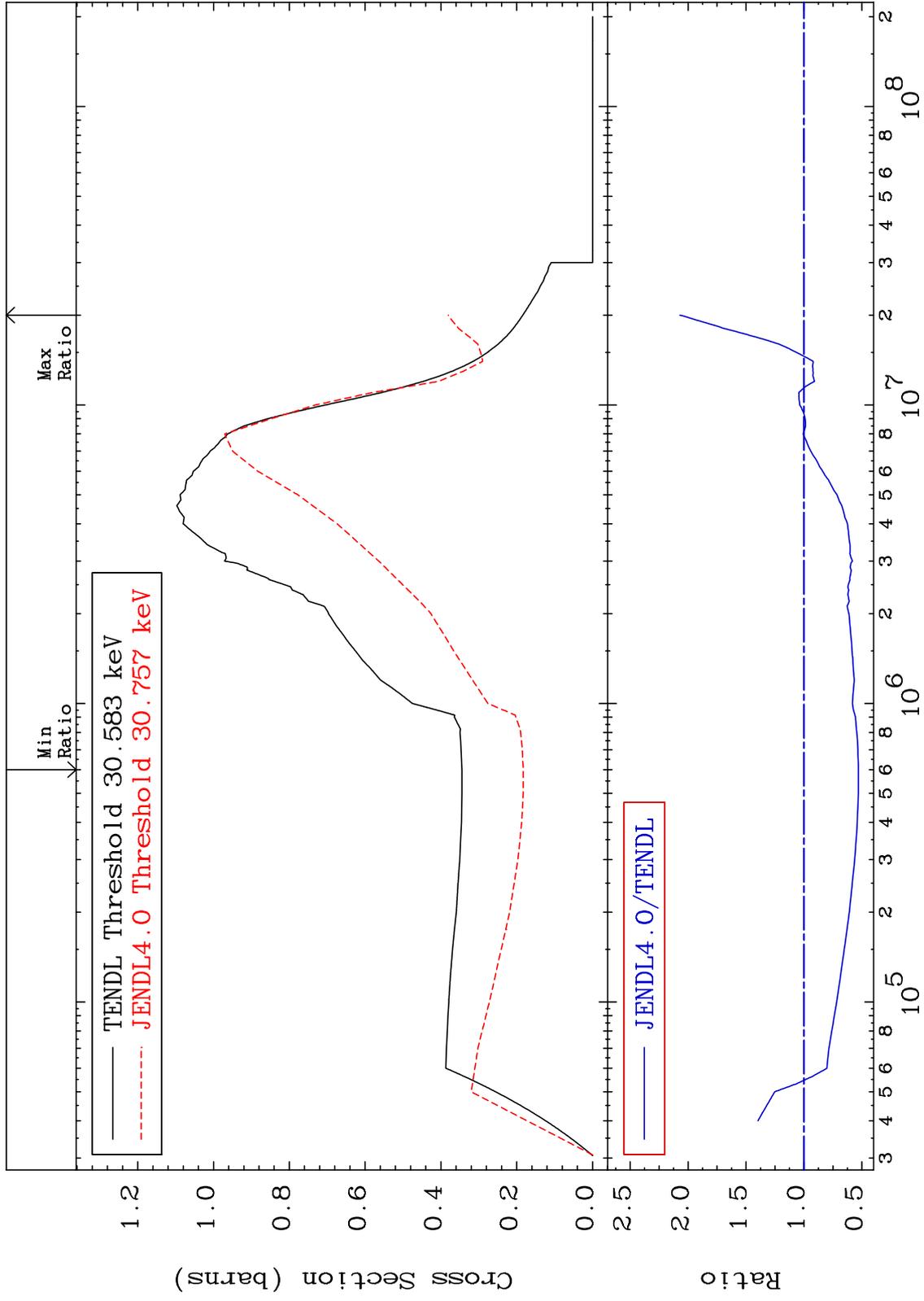
Incident Energy (eV)

2

MAT 1928

Inelastic  
Cross Section

19-K -40  
-46.97 To 107.0 %



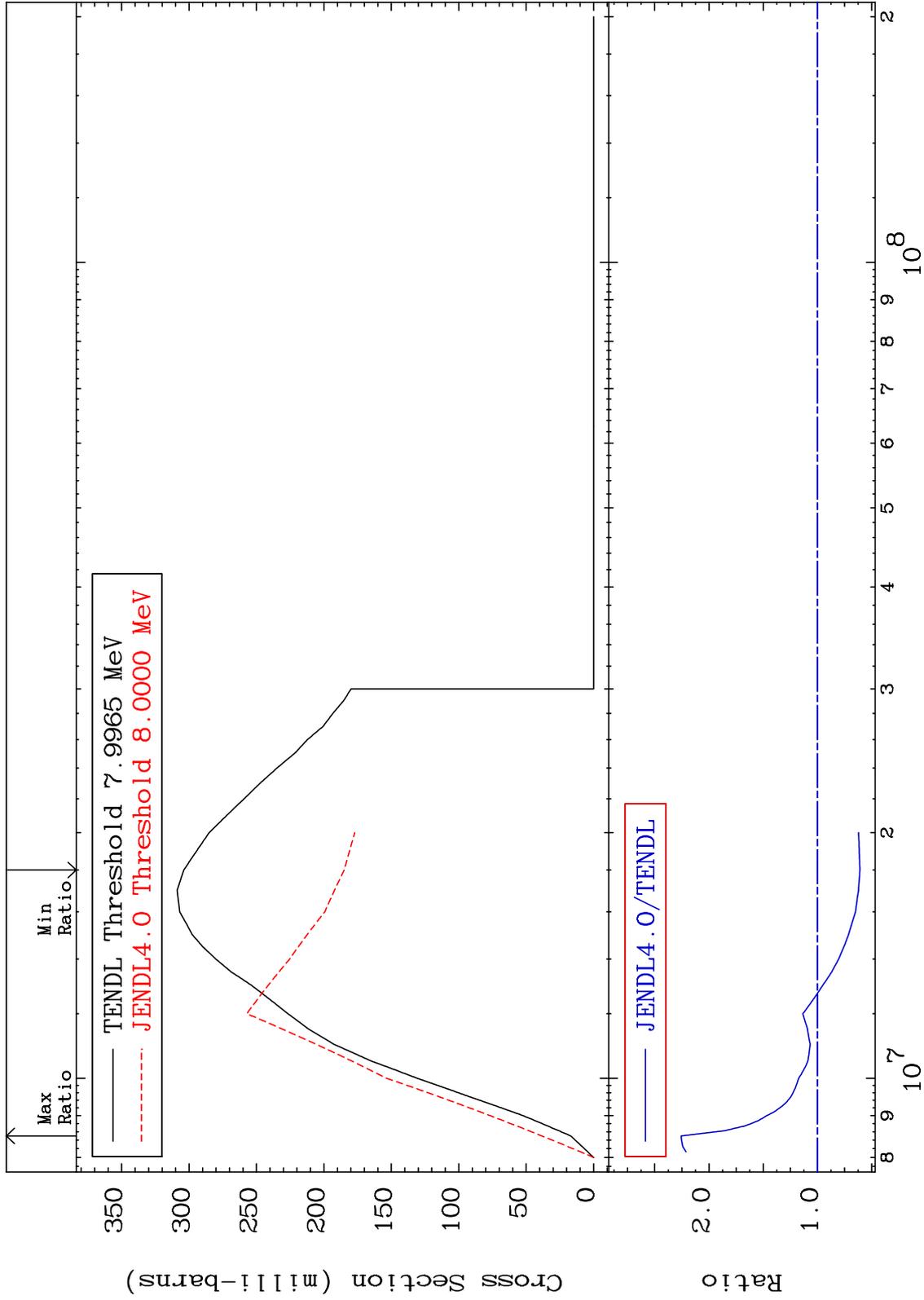
MAT 1928

(n,2n)

19-K -40

Cross Section

-39.14 To 125.7 %



Incident Energy (eV)

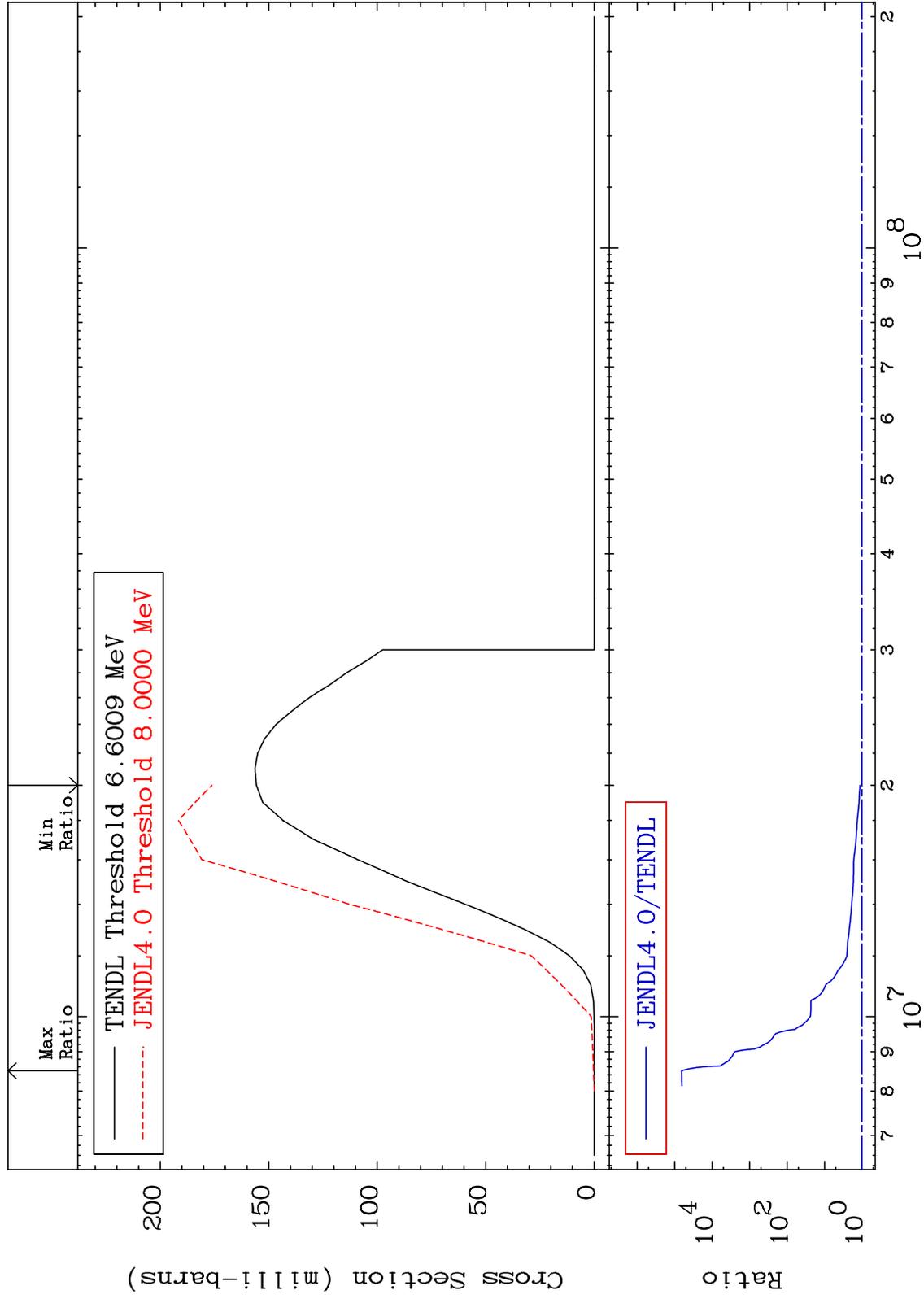
19-K -40

MAT 1928

(n,n')  $\alpha$

Cross Section

19-K -40  
13.12 To 9999. %



5

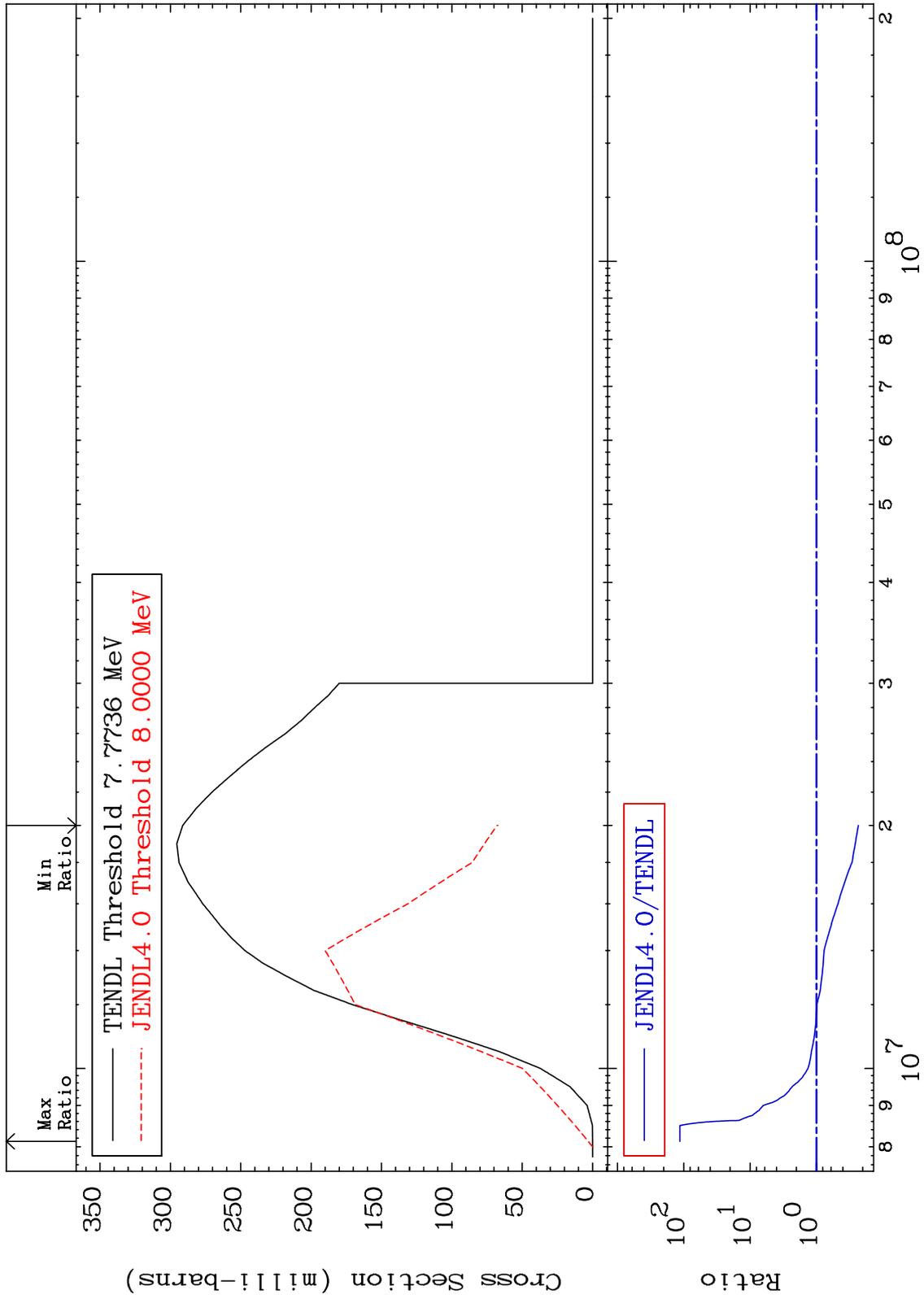
Incident Energy (eV)

19-K -40

MAT 1928

(n,n') p  
Cross Section

19-K -40  
-76.68 To 9999. %



6

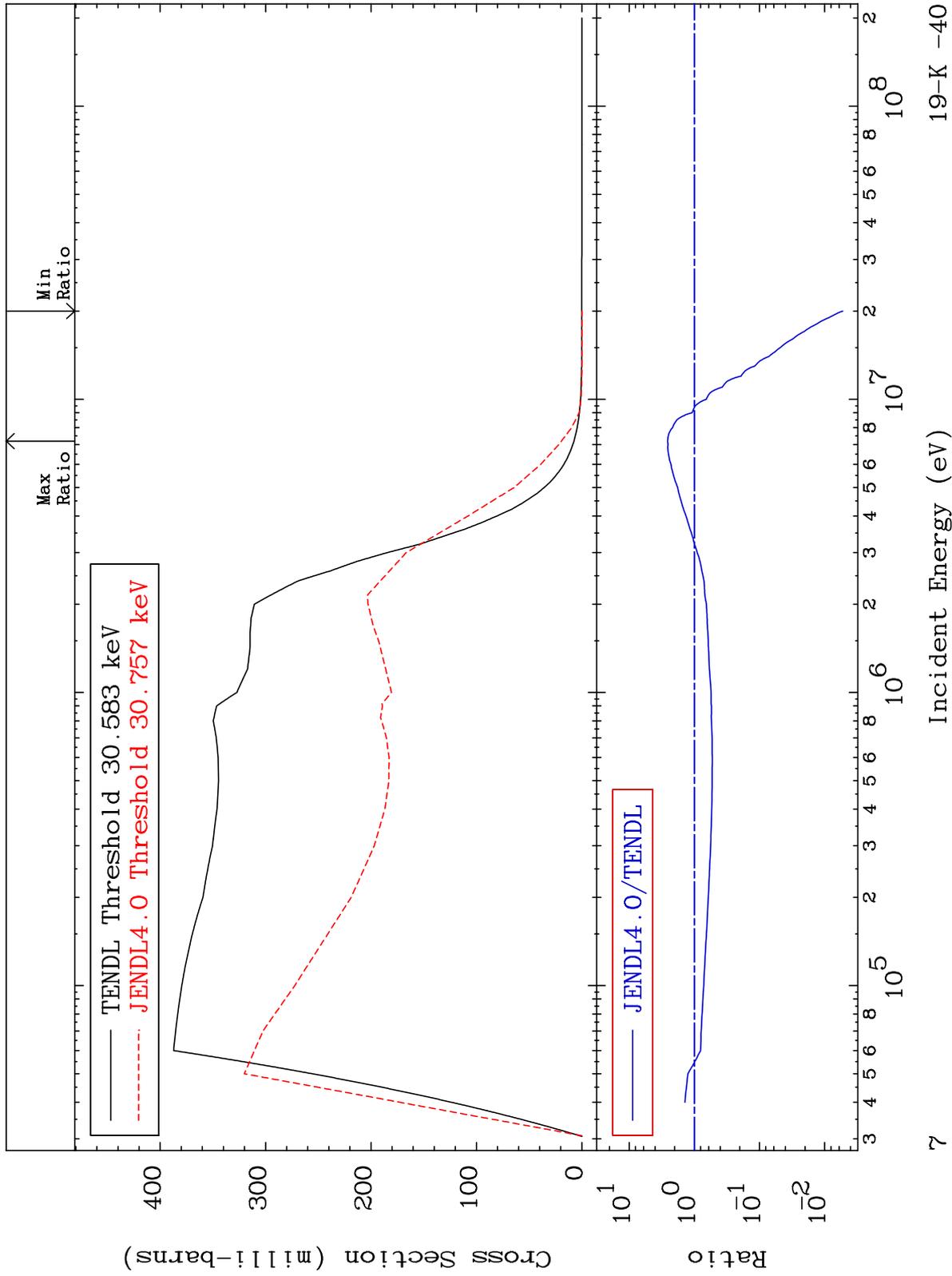
Incident Energy (eV)

19-K -40

MAT 1928

MT= 51 (n,n') Level  
Cross Section

19-K -40  
-99.47 To 156.5 %



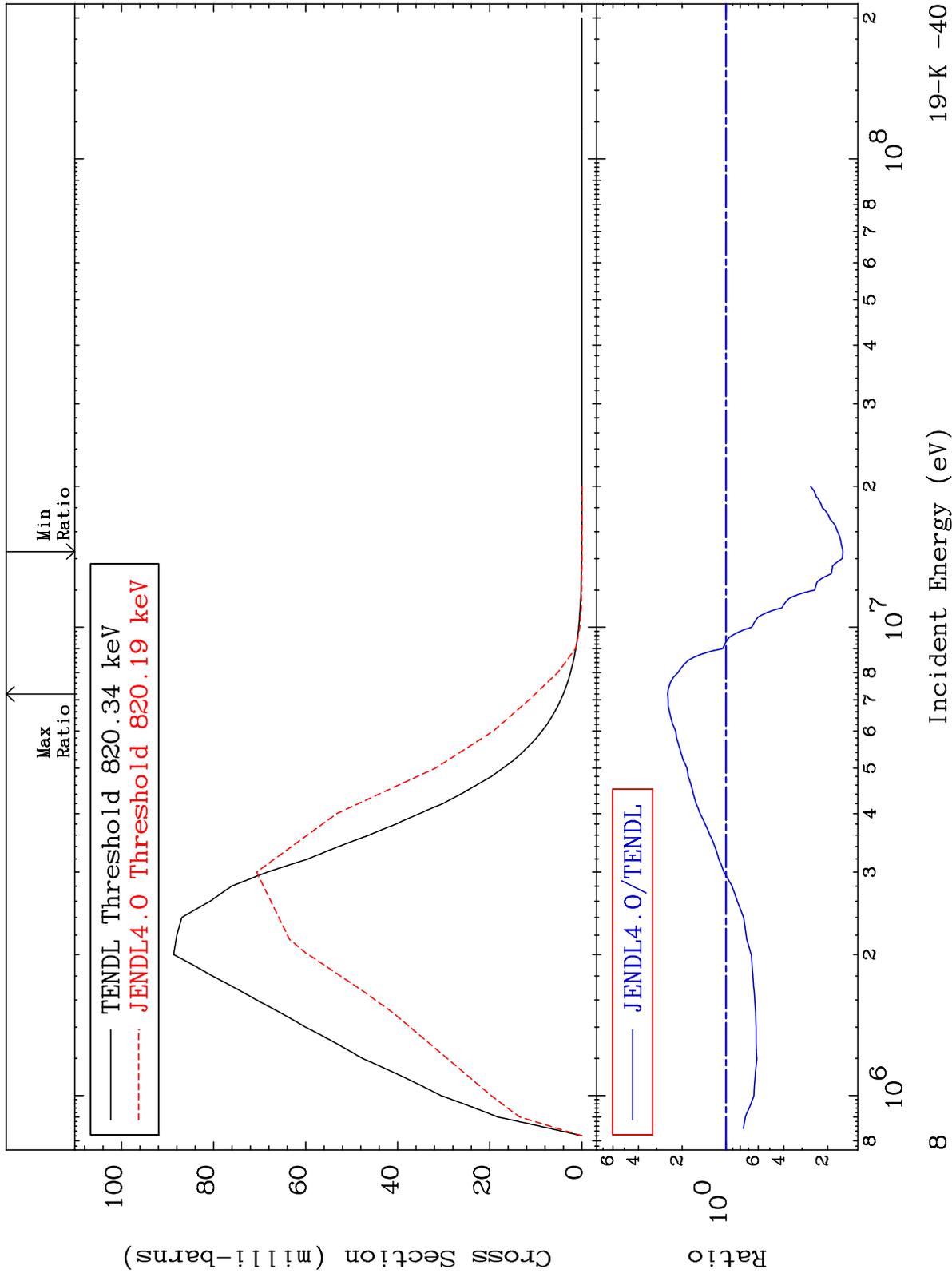
MAT 1928

MT= 52 (n,n') Level

19-K -40

-84.27 To 152.0 %

Cross Section



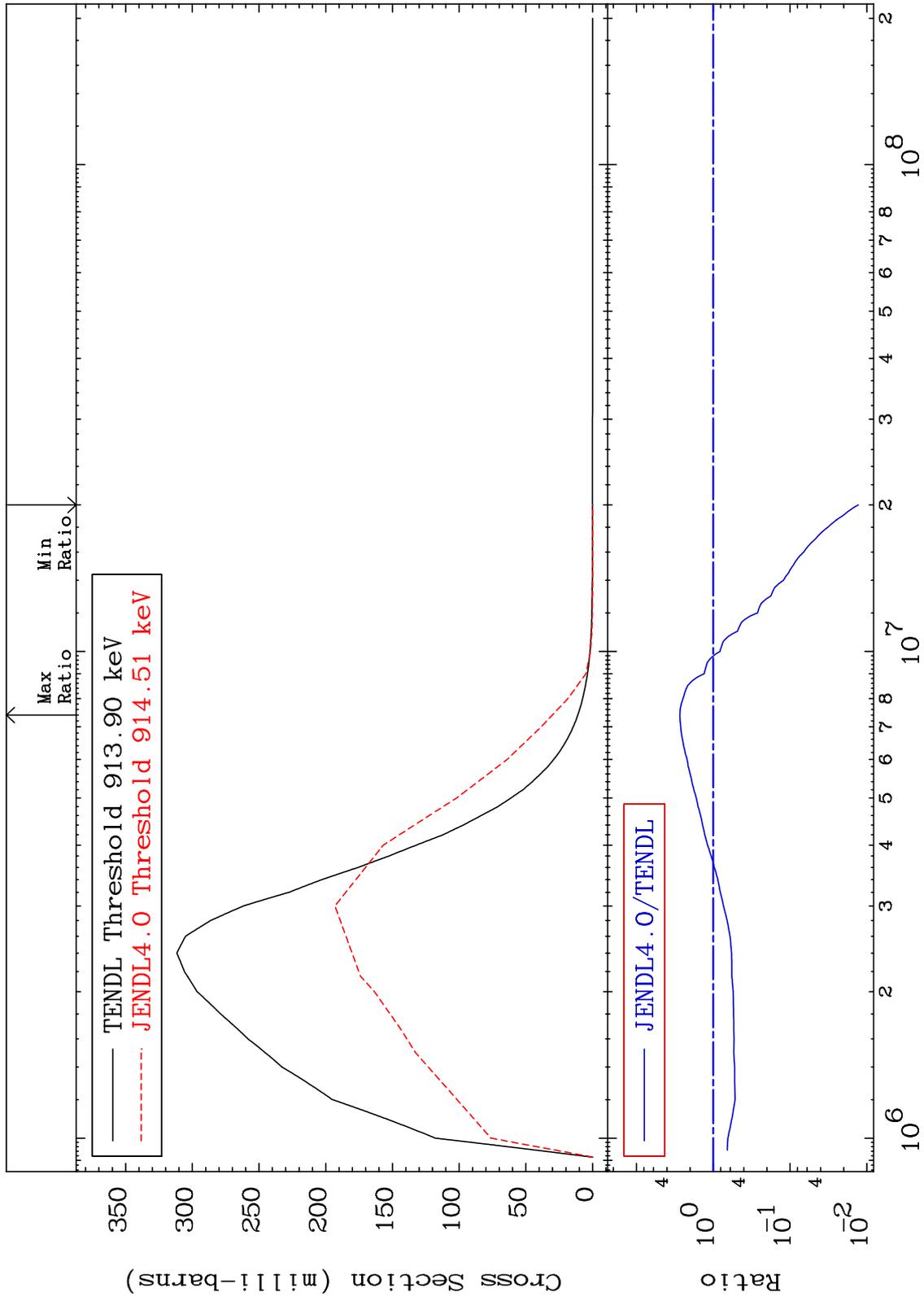
MAT 1928

MT= 53 (n,n') Level

19-K -40

-98.71 To 172.0 %

Cross Section



19-K -40

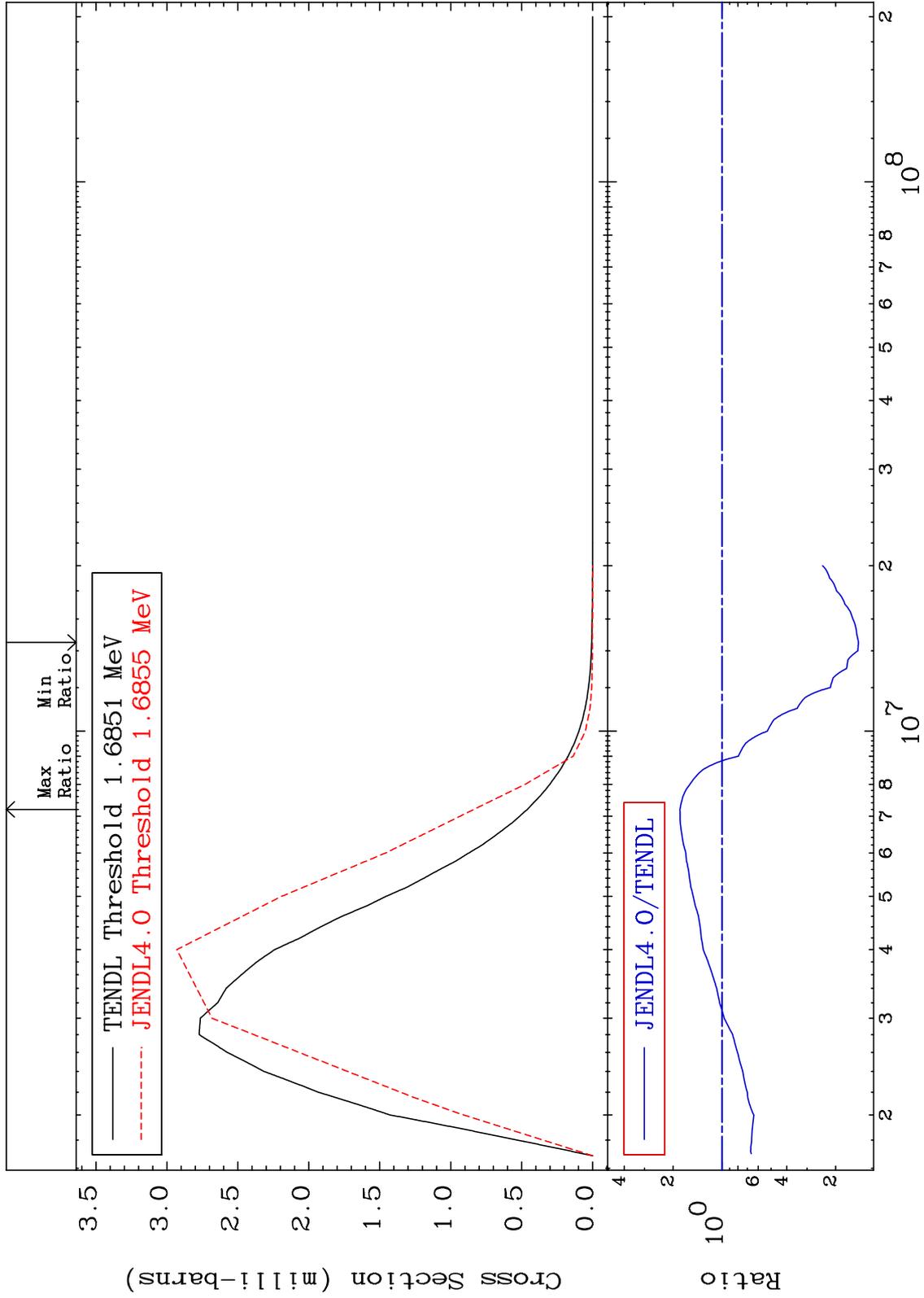
Incident Energy (eV)

9

MAT 1928

MT= 54 (n,n') Level  
Cross Section

19-K -40  
-85.52 To 81.80 %

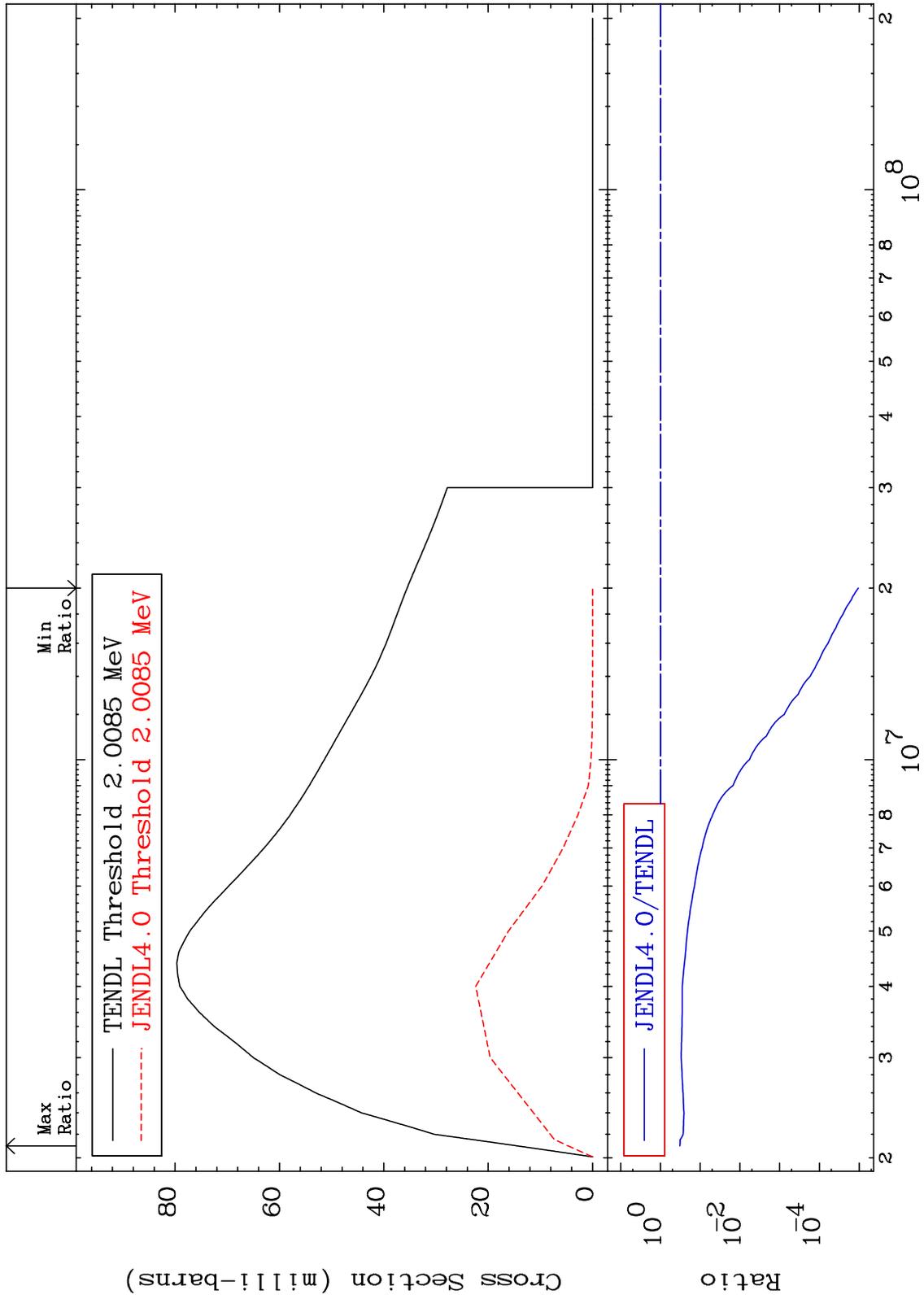


10

Incident Energy (eV)

19-K -40

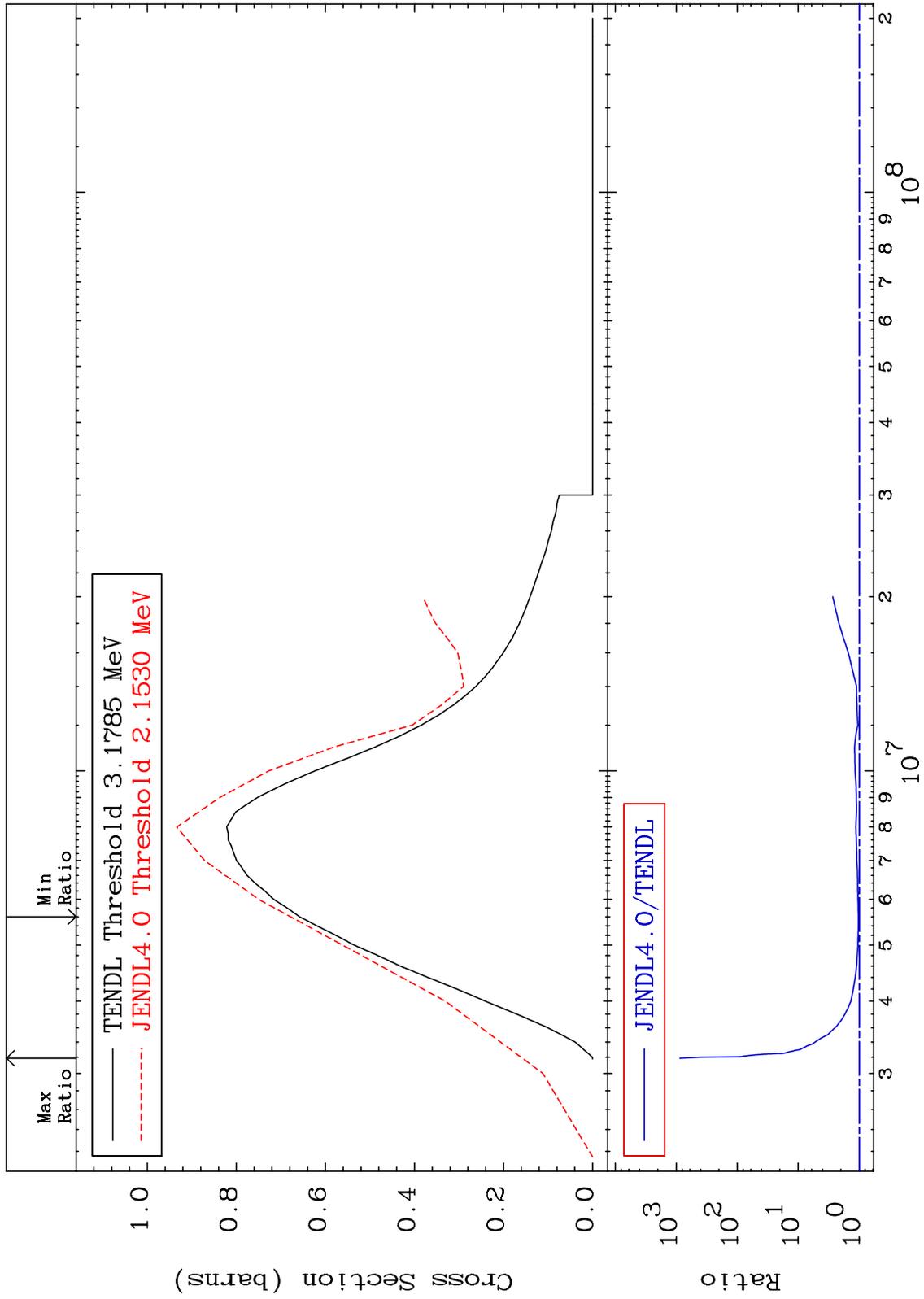
MAT 1928 MT= 55 (n,n') Level Cross Section -100.0 To -67.71% 19-K -40



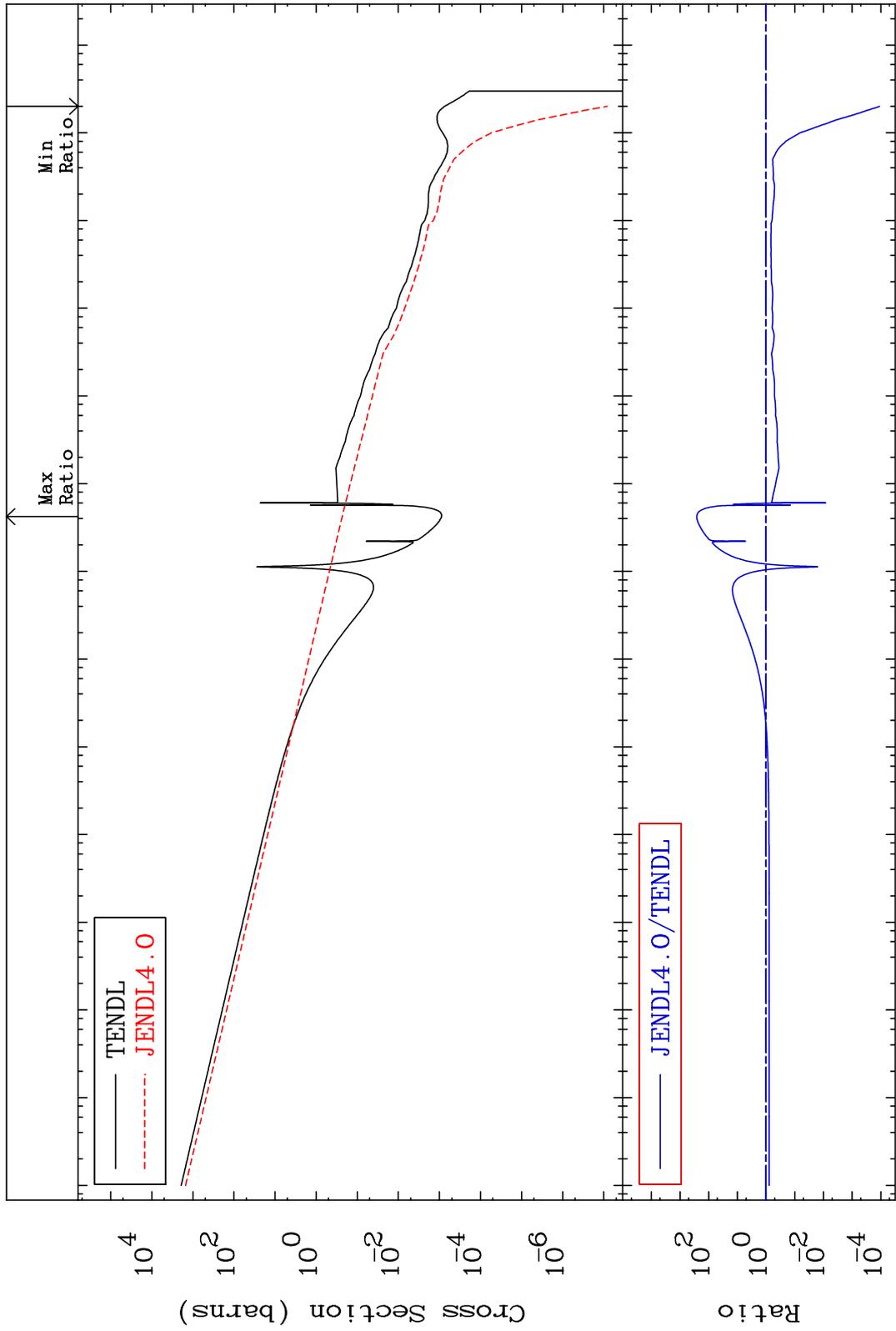
MAT 1928

(n,n') Continuum  
Cross Section

19-K -40  
3.082 To 9999. %



MAT 1928 (n,  $\gamma$ ) Cross Section 19-K -40 -99.99 To 9999. %



13 19-K -40

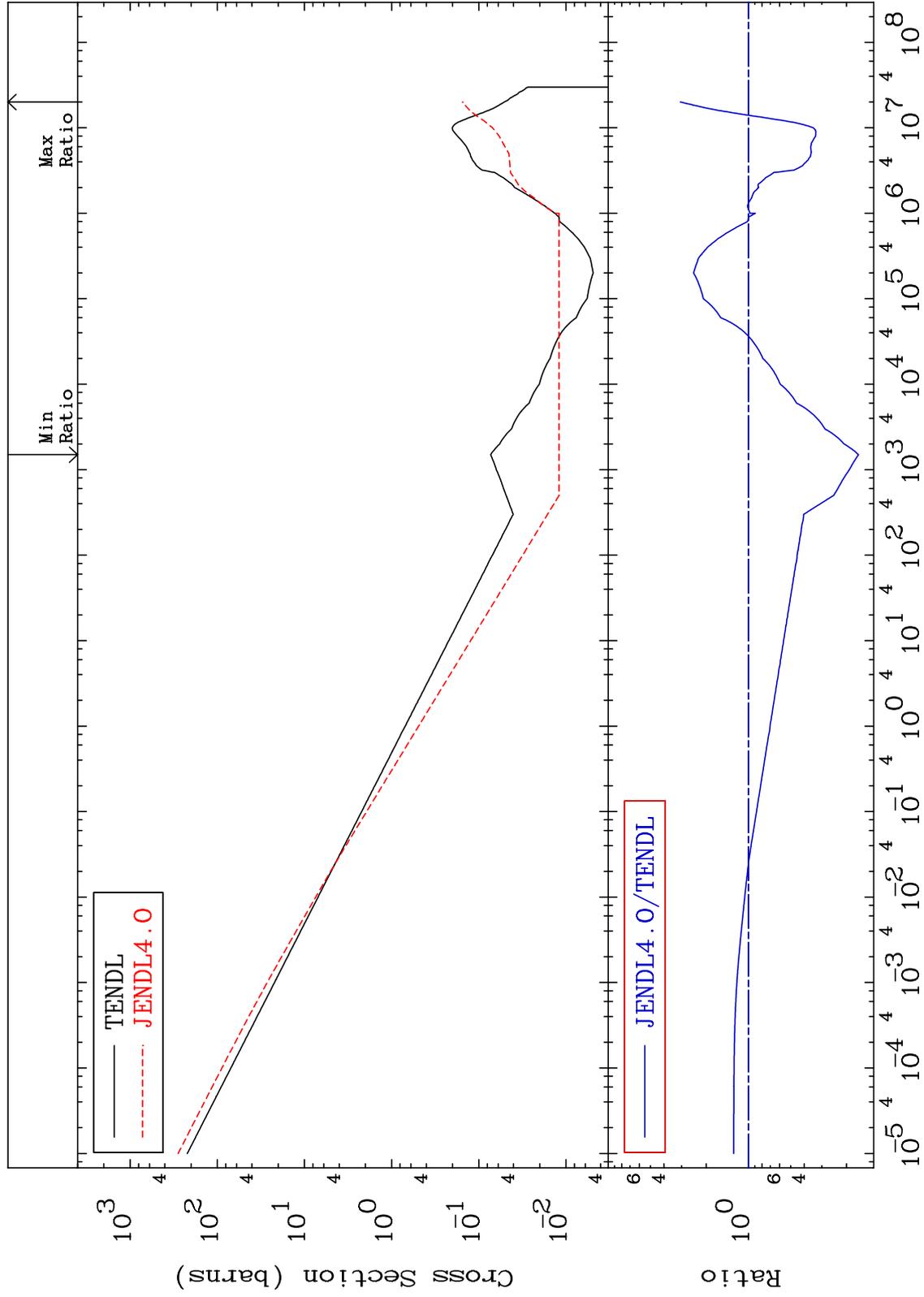
MAT 1928

(n,p)

Cross Section

19-K -40

-83.57 To 205.8 %



14

Incident Energy (eV)

19-K -40

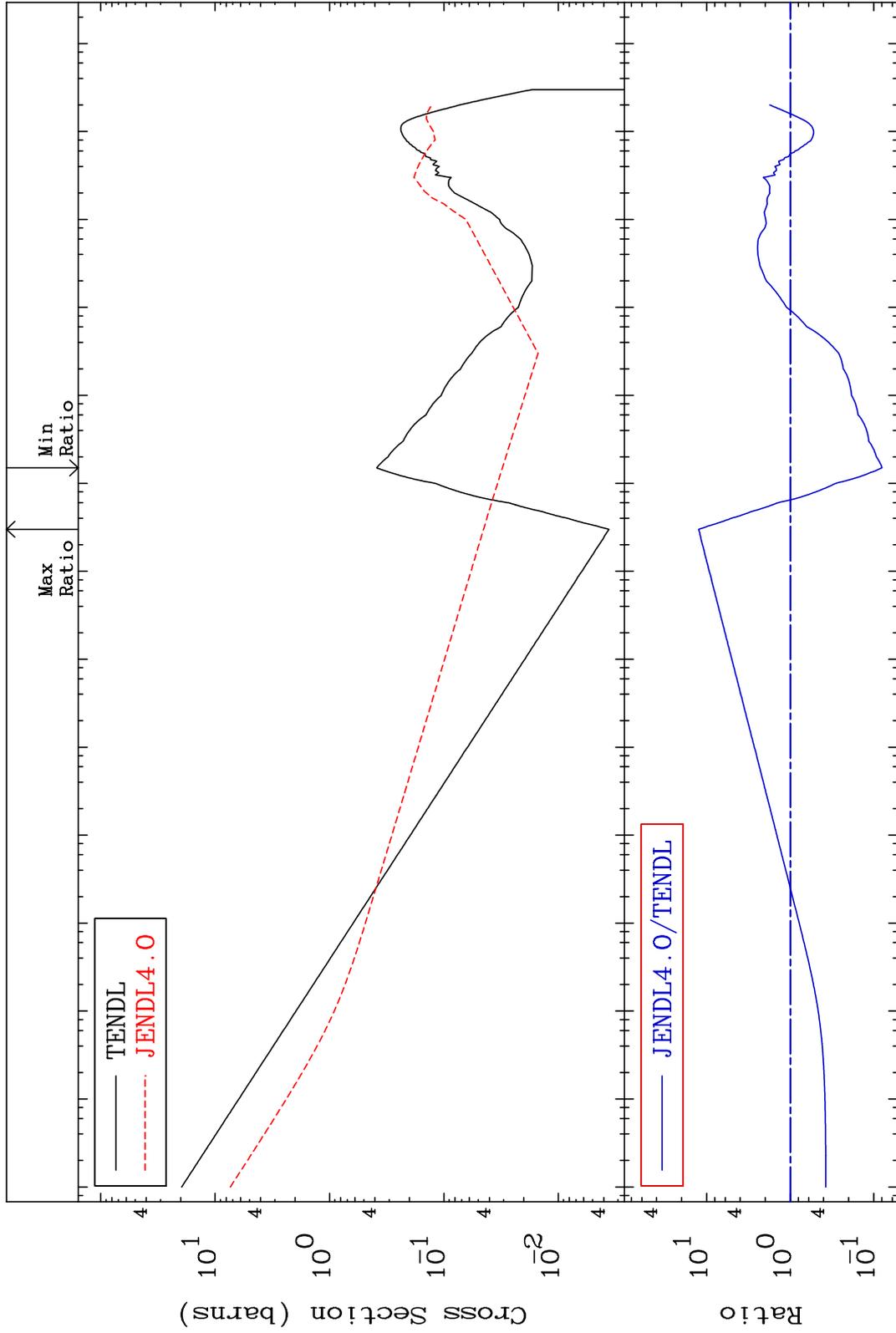
MAT 1928

(n,  $\alpha$ )

19-K -40

-92.05 To 1150. %

Cross Section



Incident Energy (eV)

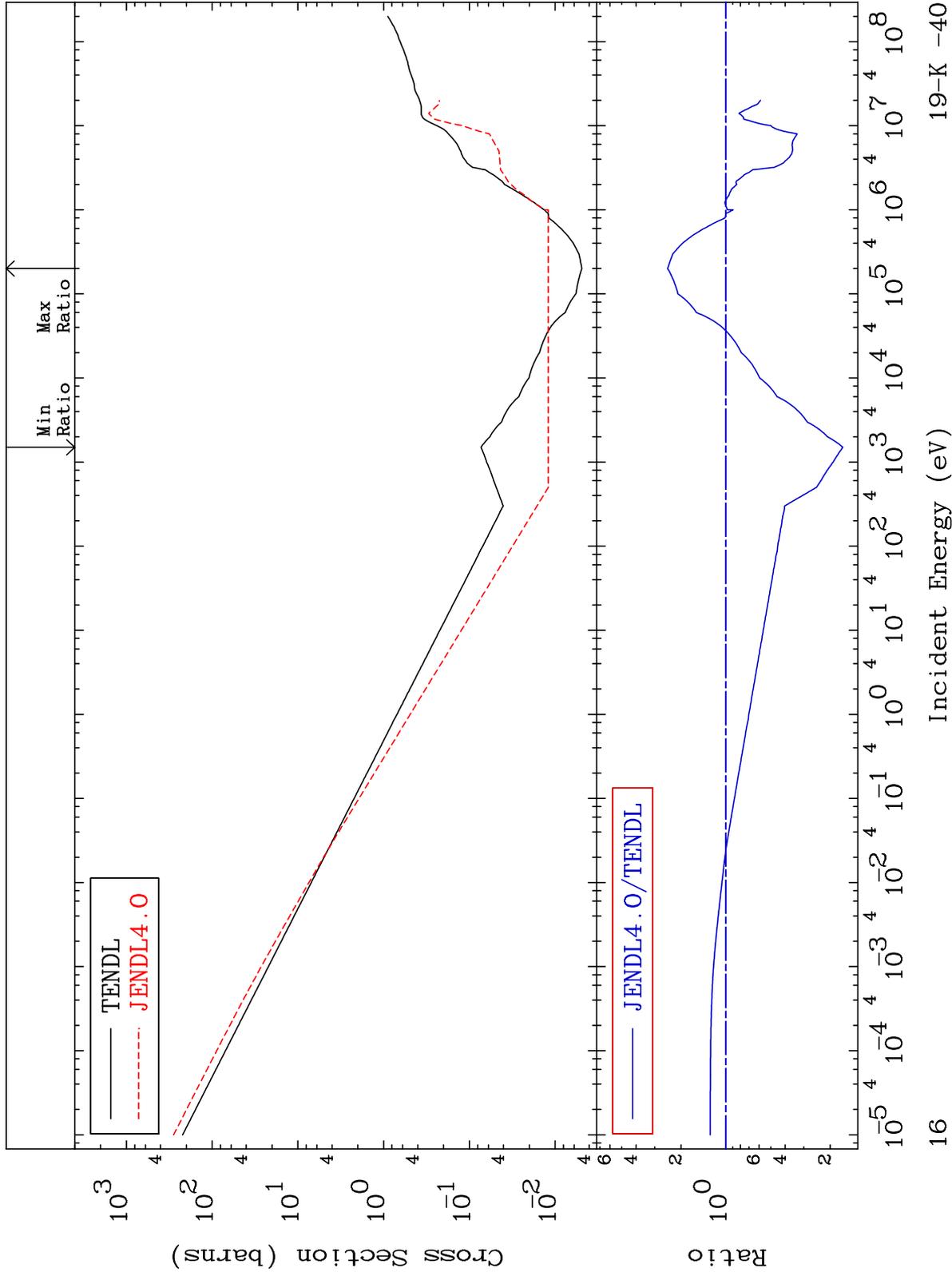
19-K -40

15

MAT 1928

Hydrogen Production  
Cross Section

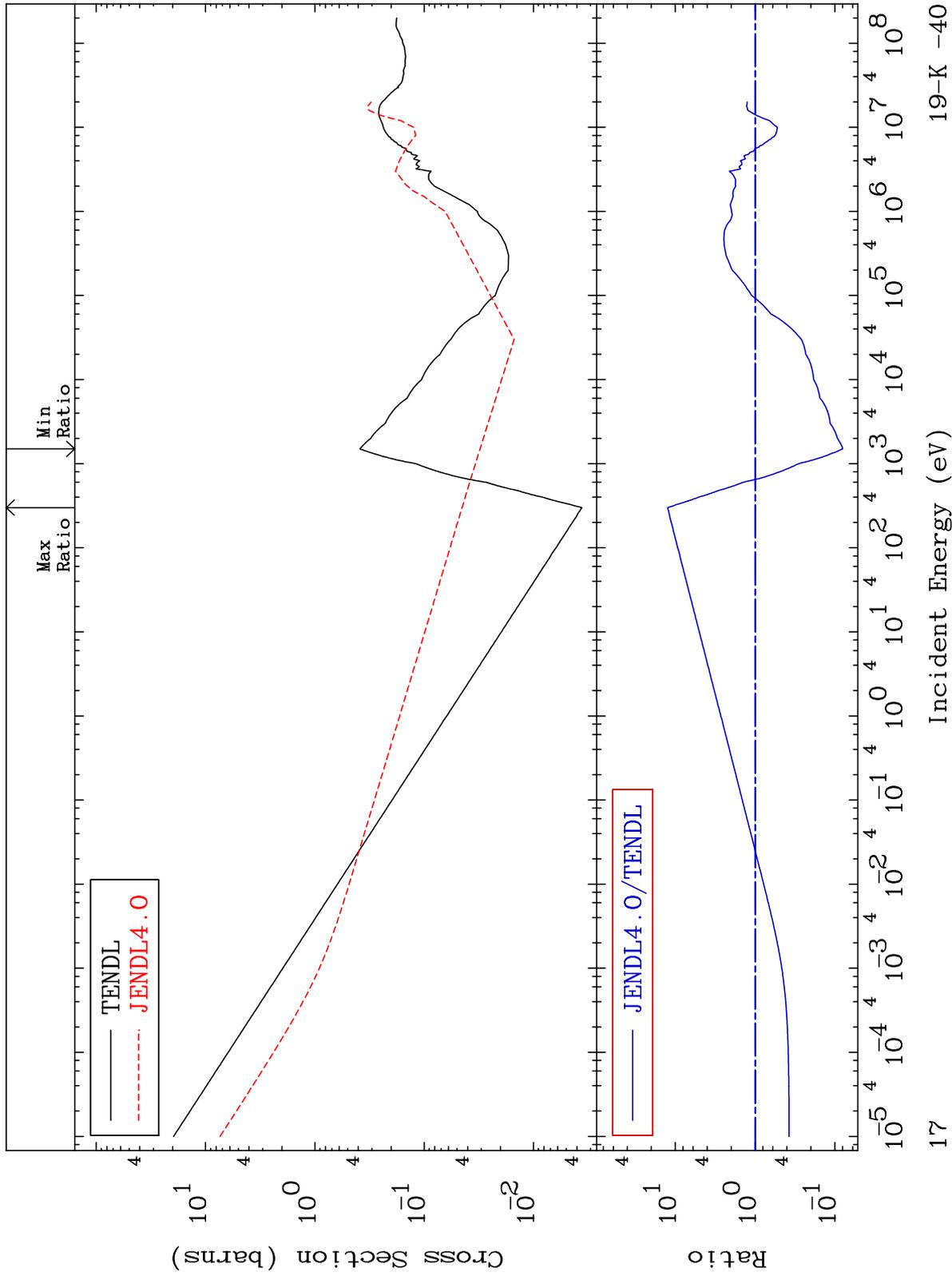
19-K -40  
-83.57 To 145.9 %



MAT 1928

He-4 Production  
Cross Section

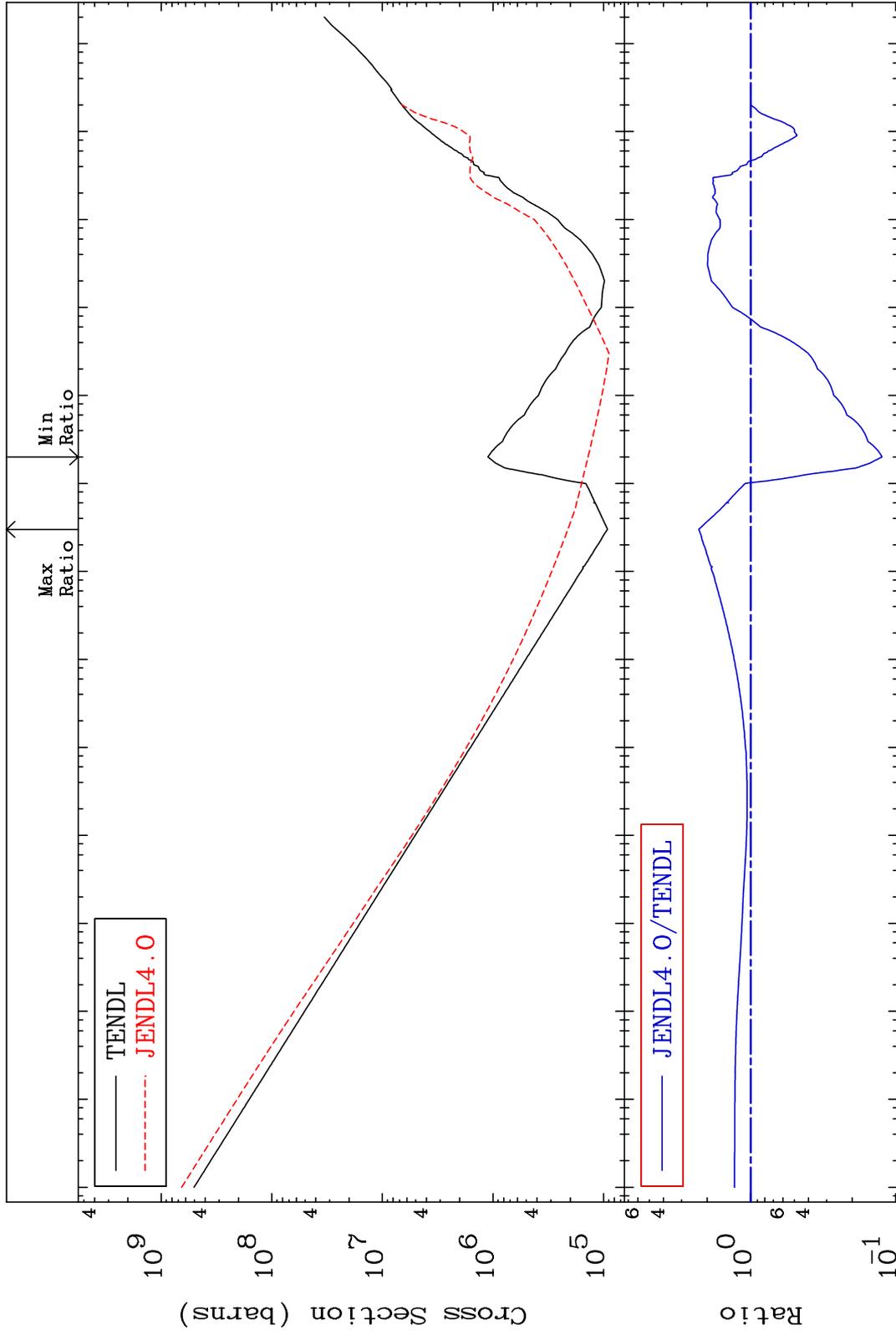
19-K -40  
-92.05 To 1150. %



MAT 1928

Kerma total (eV-barns)  
Cross Section

19-K -40  
-87.57 To 128.5 %



18

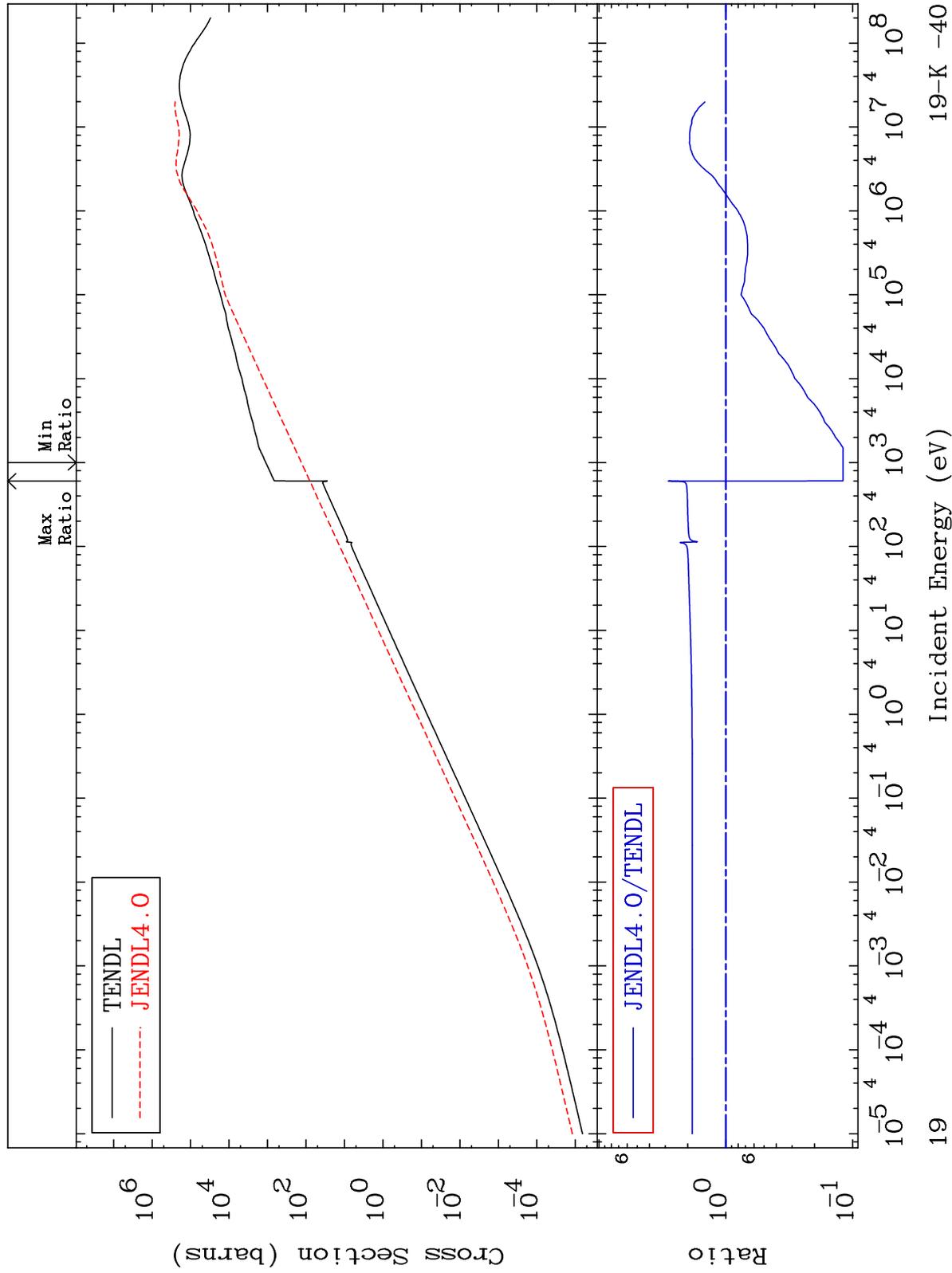
Incident Energy (eV)

19-K -40

MAT 1928

Kerma elastic  
Cross Section

19-K -40  
-88.08 To 185.3 %



19

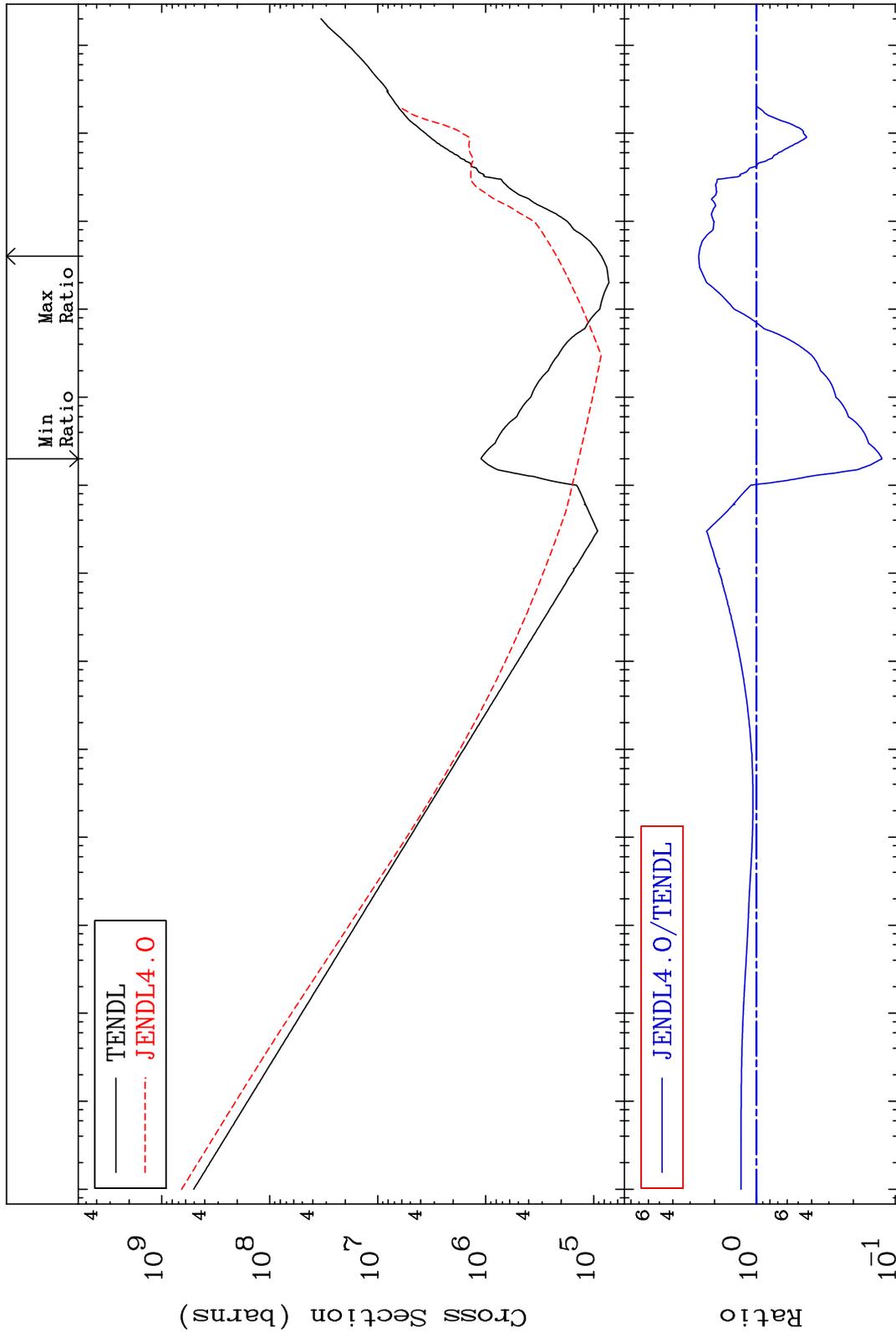
Incident Energy (eV)

19-K -40

MAT 1928

Kerma non-elastic (all but mt2)  
Cross Section

19-K -40  
-87.57 To 160.3 %



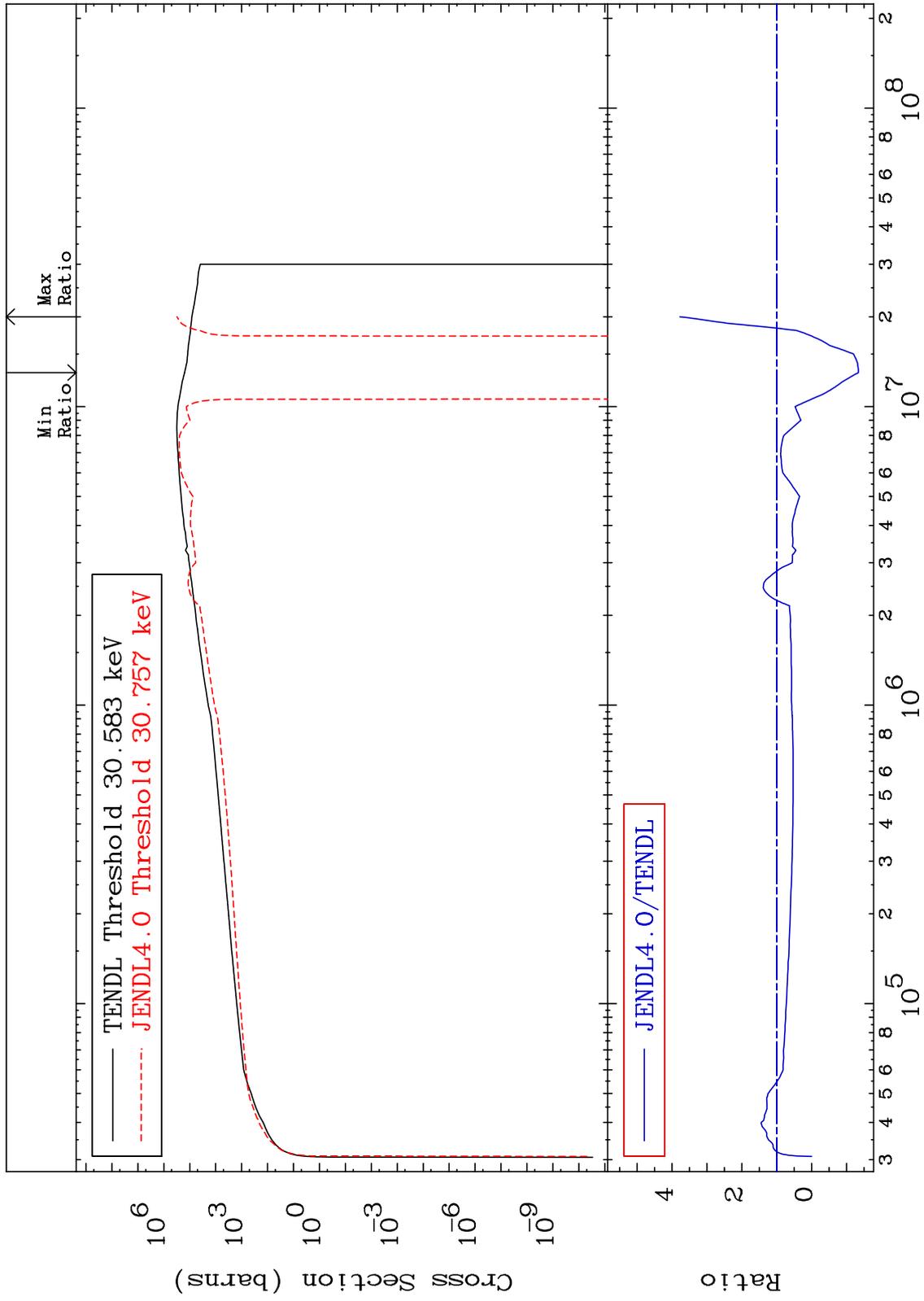
— TENDL  
- - - JENDL4.0

— JENDL4.0/TENDL

MAT 1928

Kerma inelastic (mt51-91)  
Cross Section

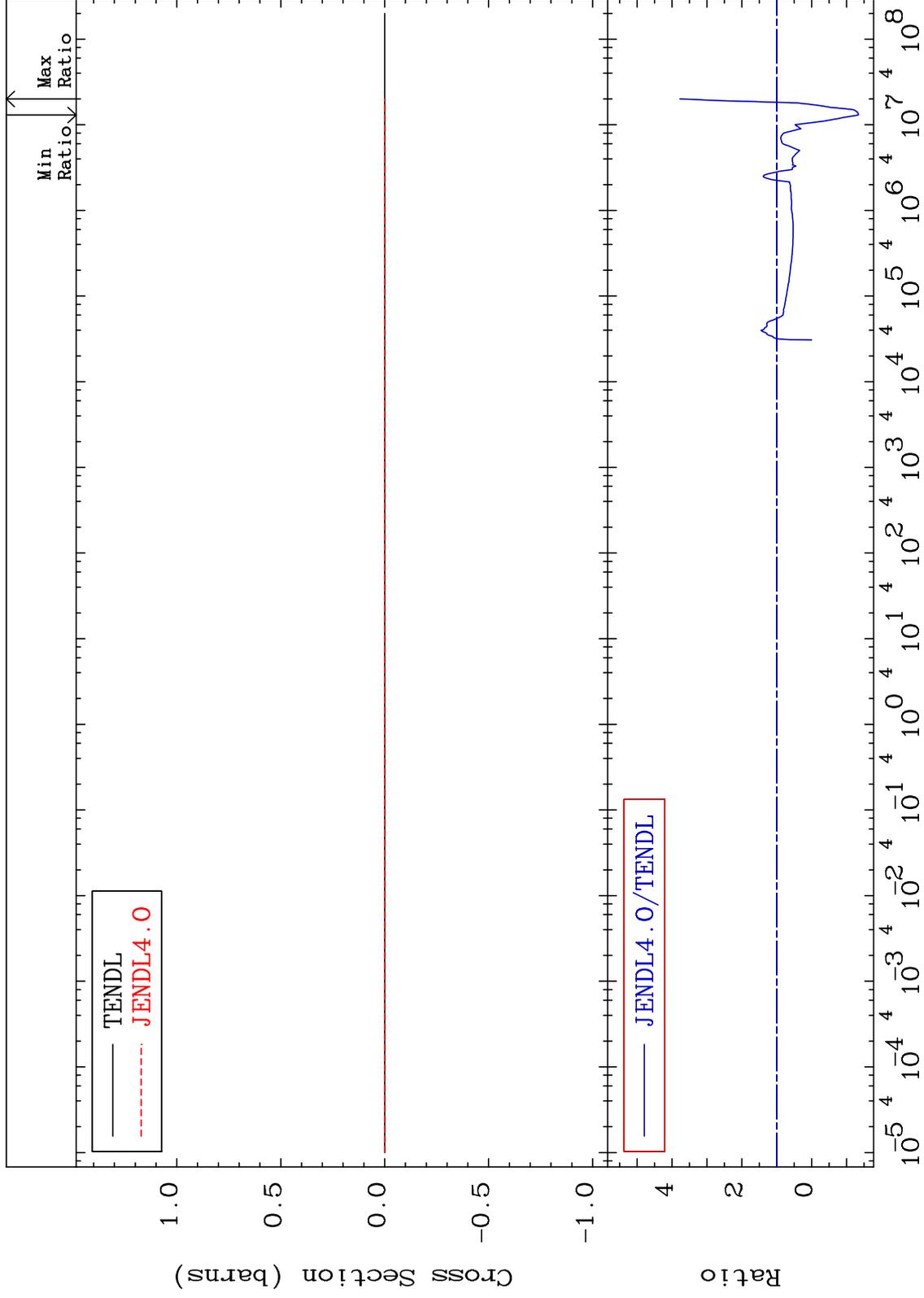
19-K -40  
-233.7 To 277.1 %



MAT 1928

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

19-K -40  
-233.7 To 277.1 %



22

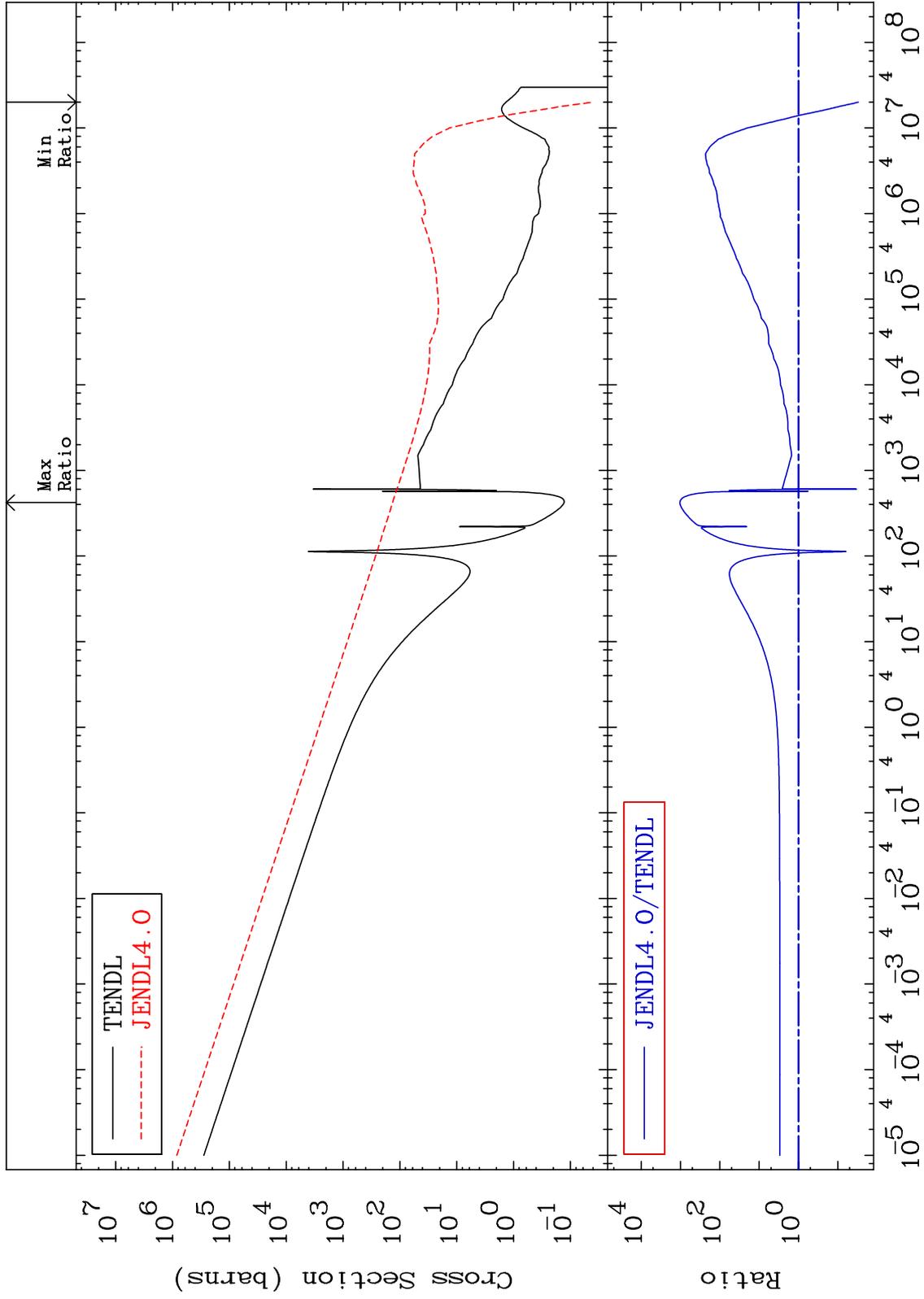
Incident Energy (eV)

19-K -40

MAT 1928

Kerma capture (mt102)  
Cross Section

19-K -40  
-97.02 To 9999. %



23

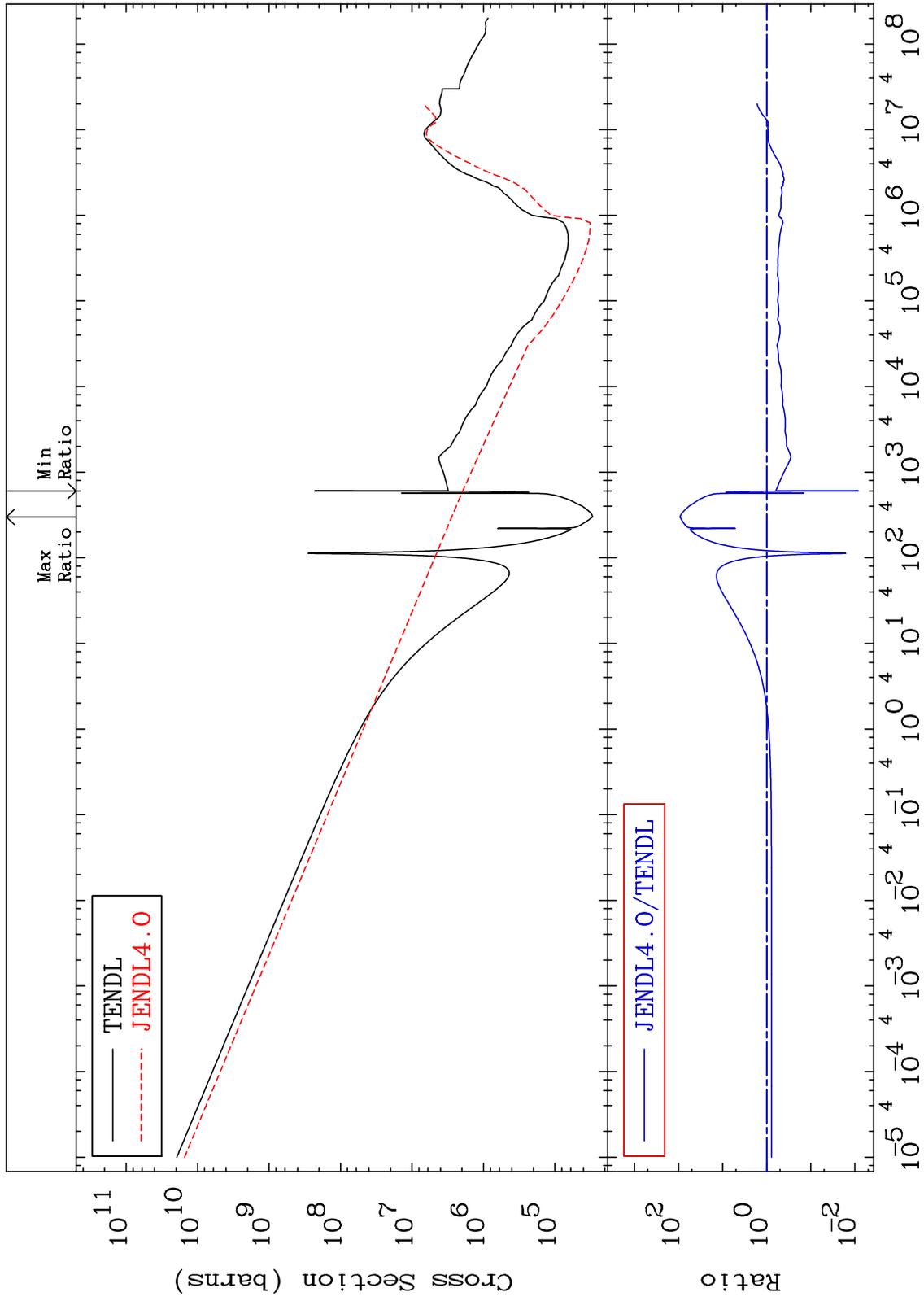
Incident Energy (eV)

19-K -40

MAT 1928

Total photon (eV-barns)  
Cross Section

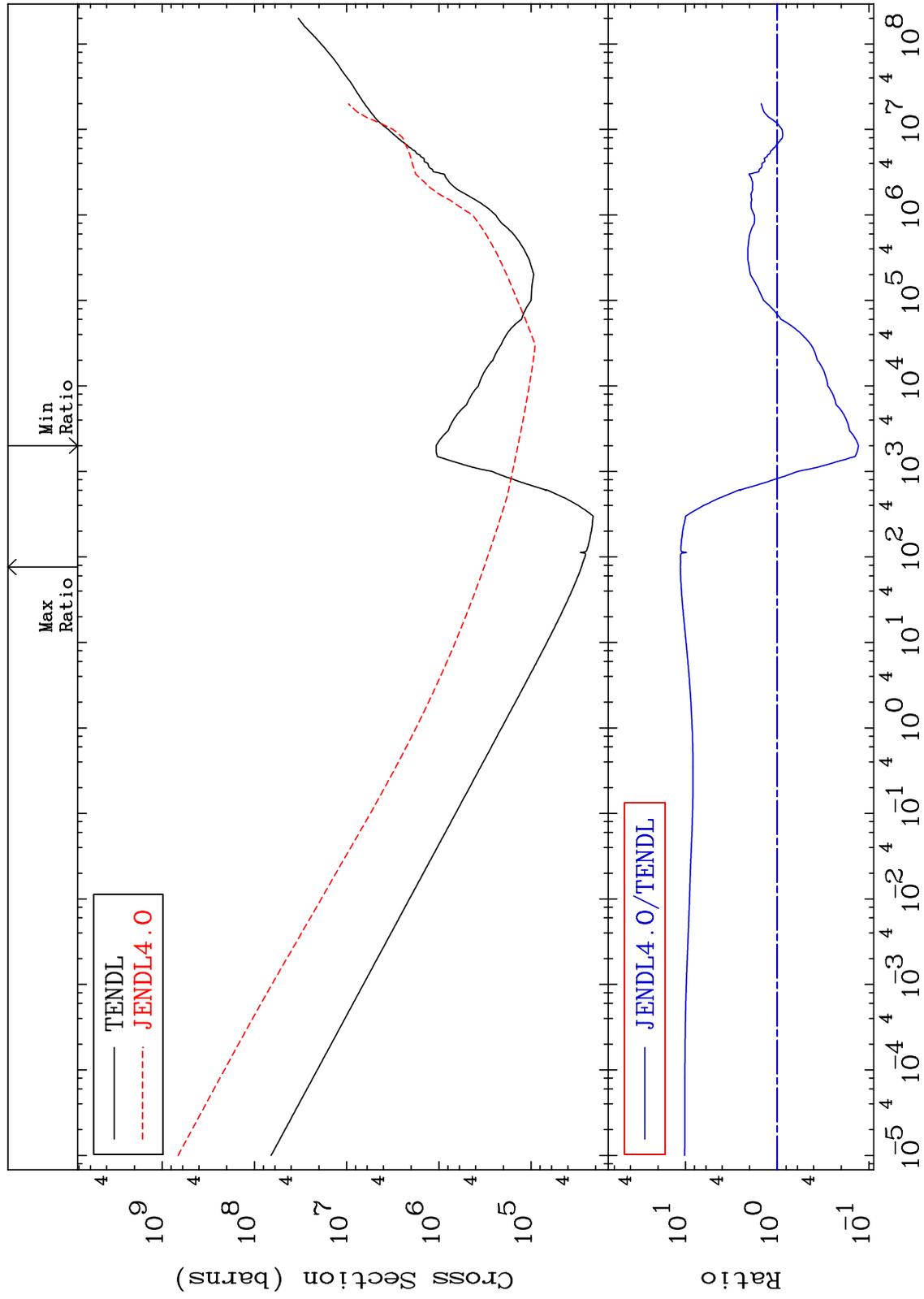
19-K -40  
-99.17 To 9249. %



MAT 1928

Total kinematic kerma (high limit)  
Cross Section

19-K -40  
-87.03 To 1040. %



25

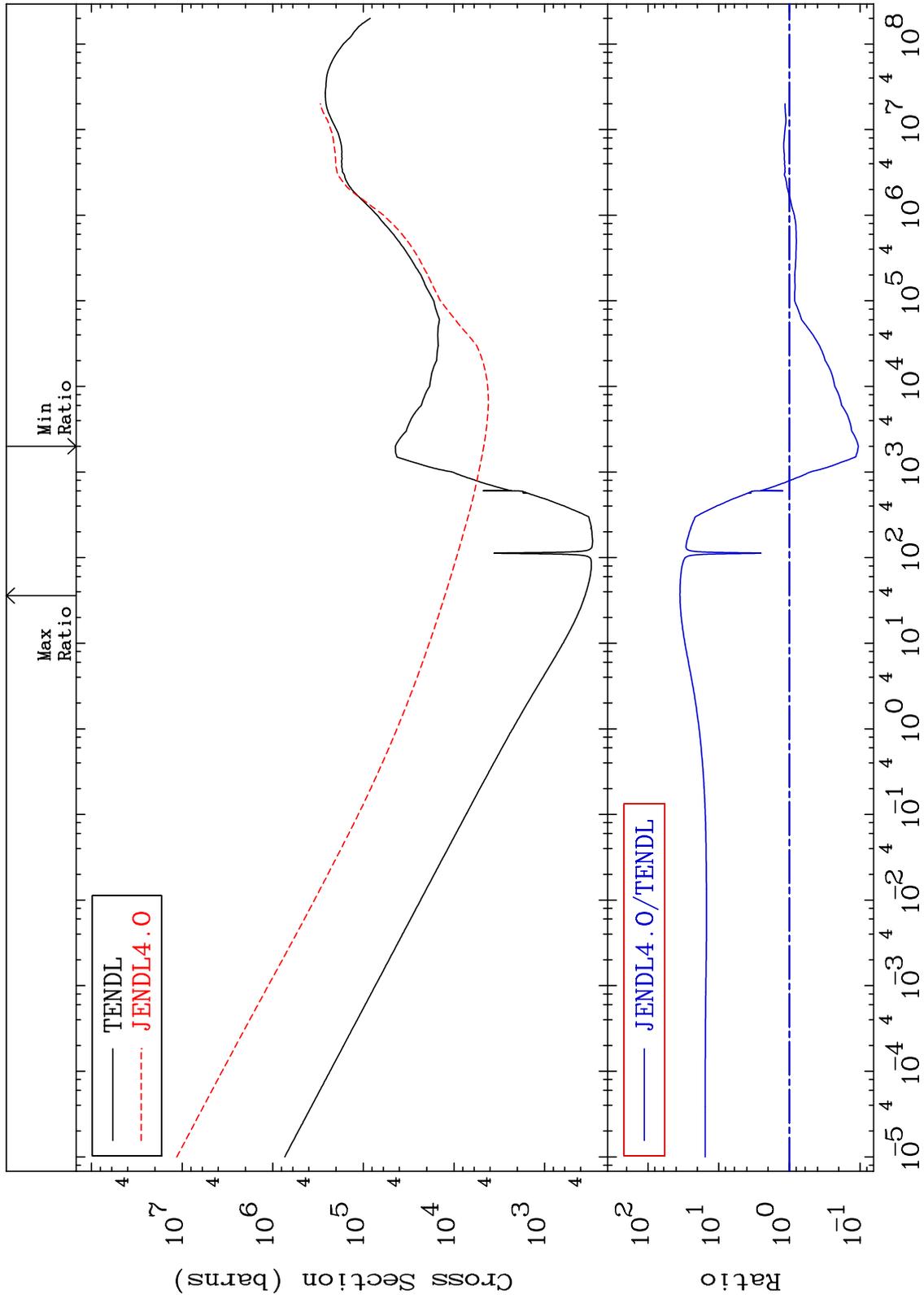
Incident Energy (eV)

19-K -40

MAT 1928

Dpa total (eV-barns)  
Cross Section

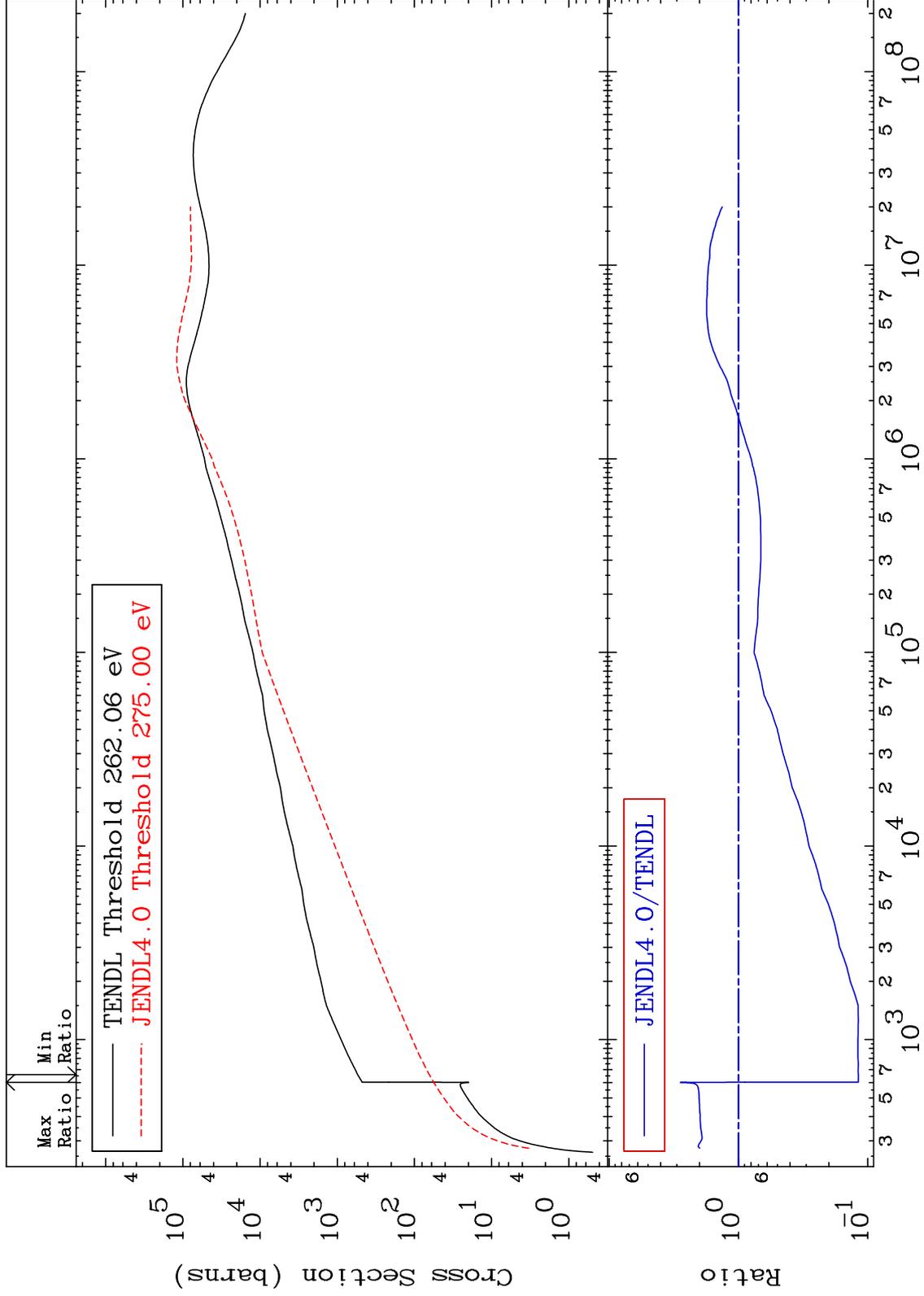
19-K -40  
-89.43 To 3430. %



MAT 1928

Dpa elastic (mt2)  
Cross Section

19-K -40  
-88.17 To 183.6 %



27

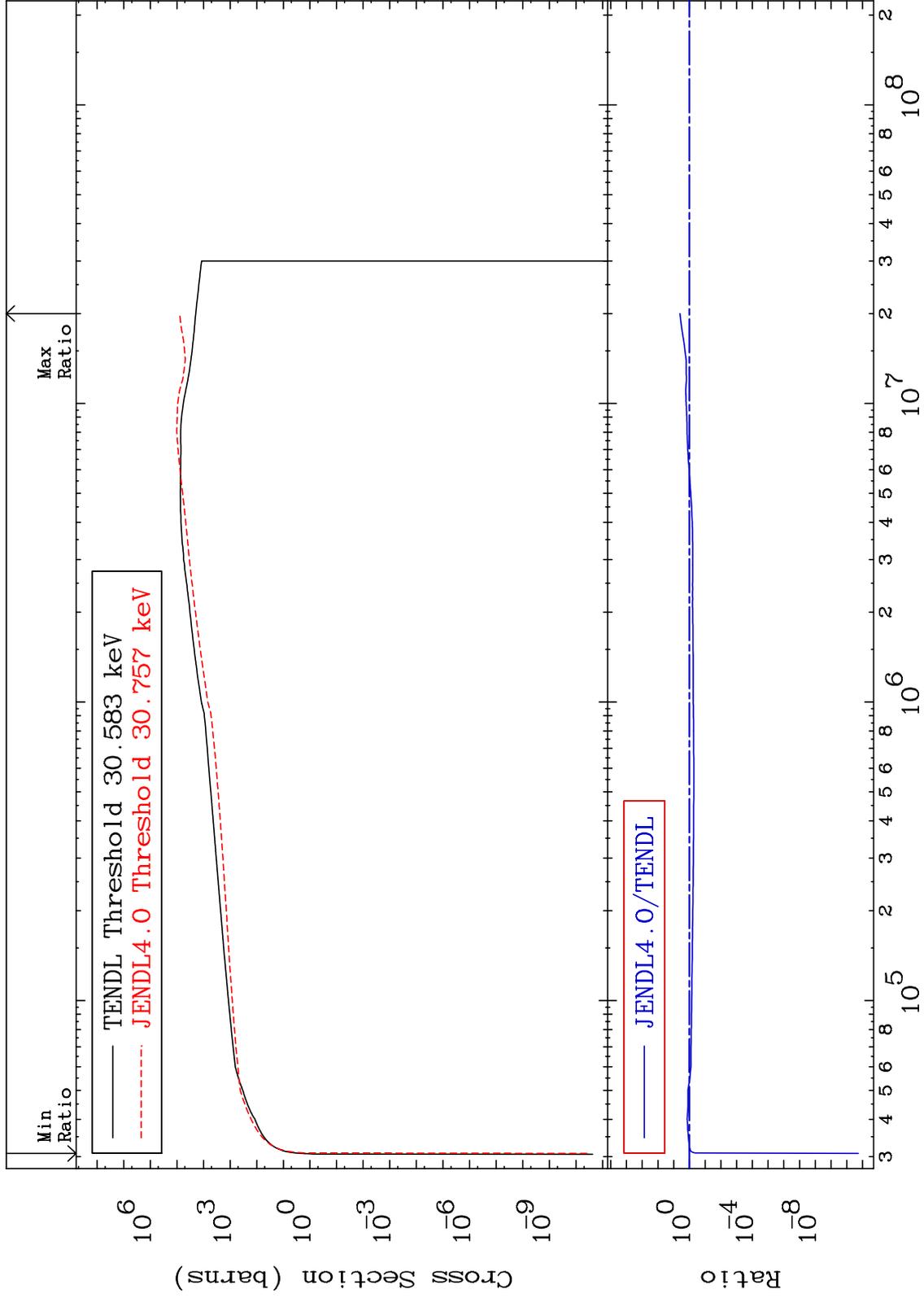
Incident Energy (eV)

19-K -40

MAT 1928

Dpa inelastic (mt51-91)  
Cross Section

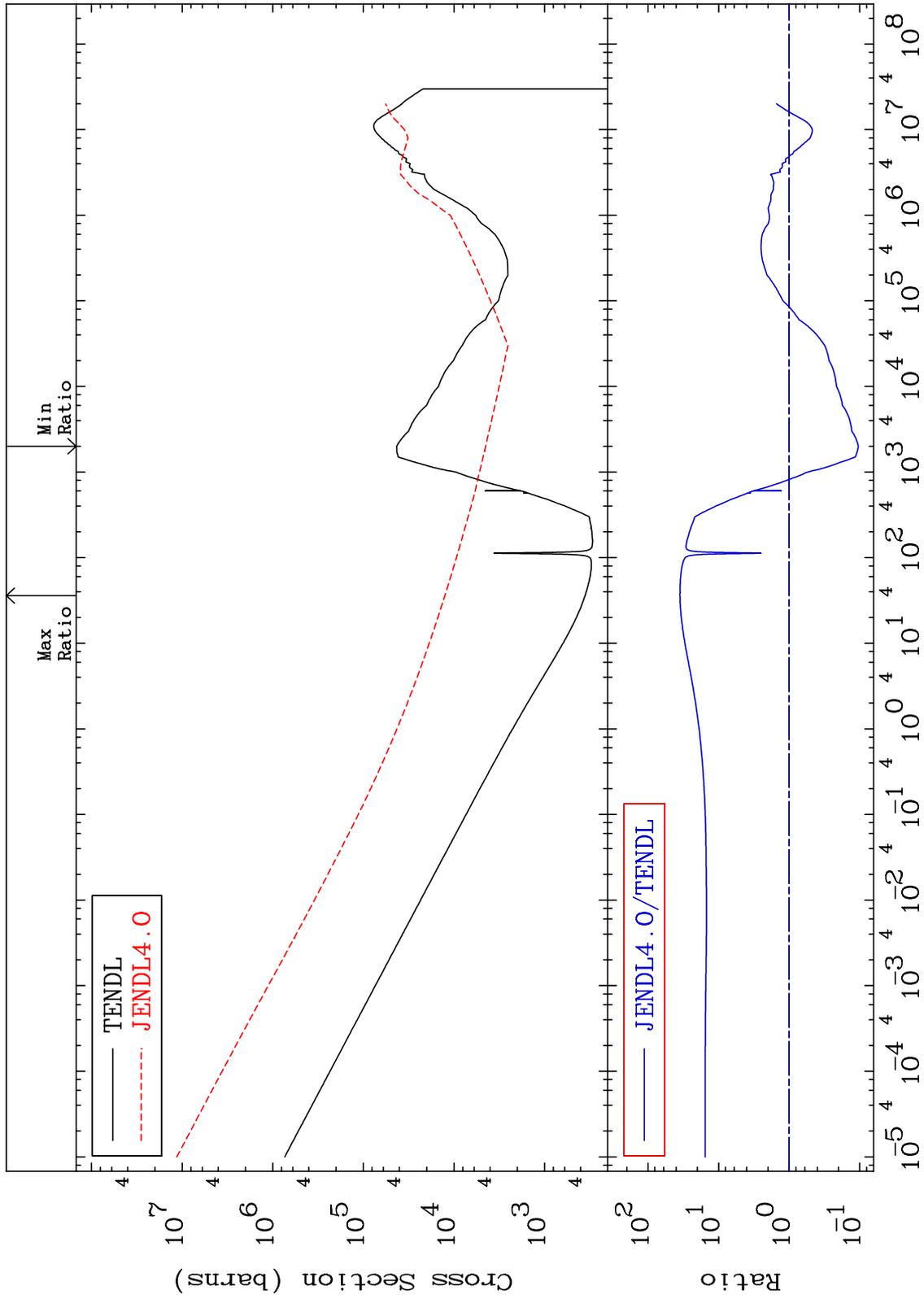
19-K -40  
-100.0 To 301.1 %



MAT 1928

Dpa disappearance (mt102 -120)  
Cross Section

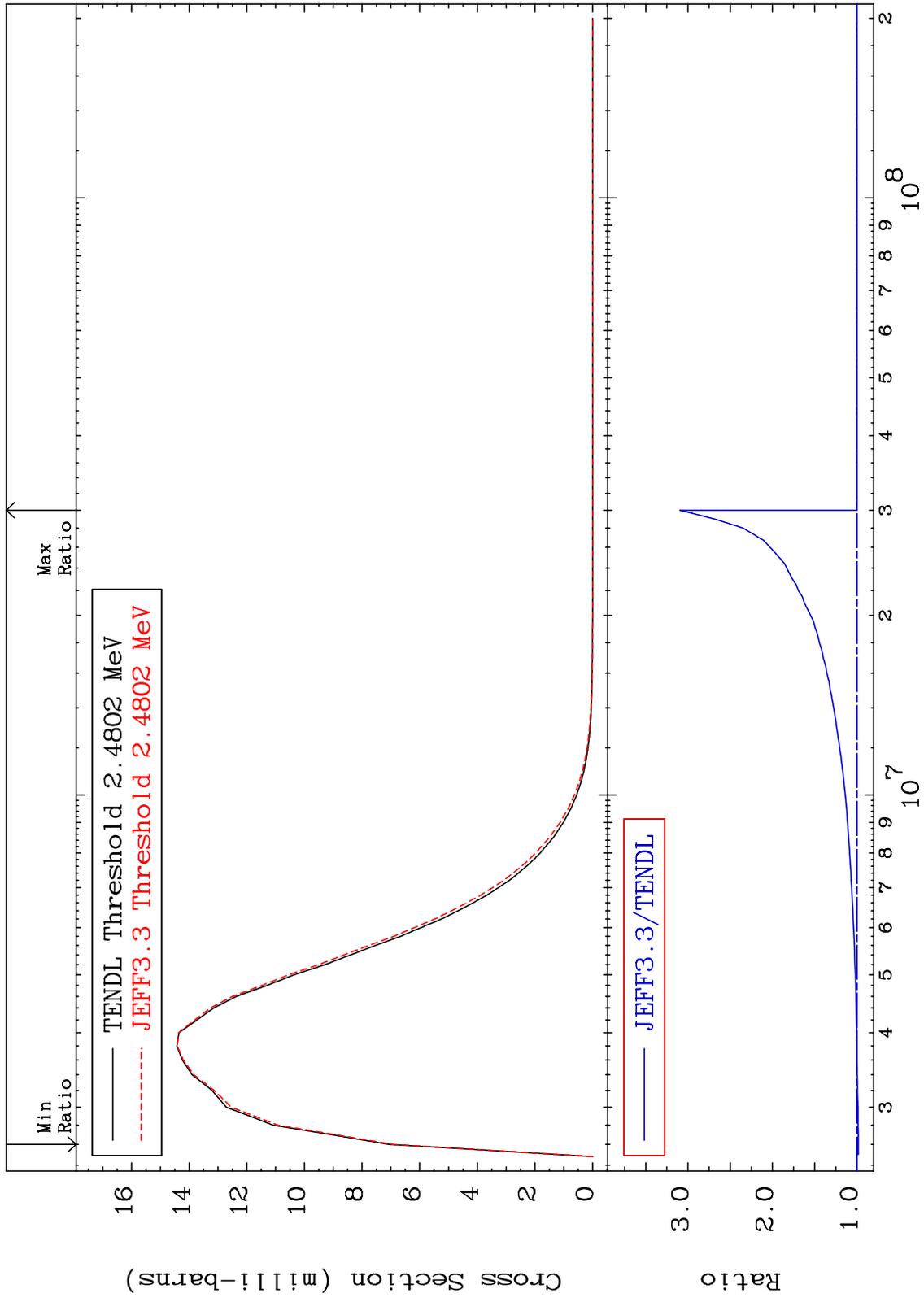
19-K -40  
-89.55 To 3430. %



MAT 1928

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

19-K -40  
-1.704 To 209.5 %



30

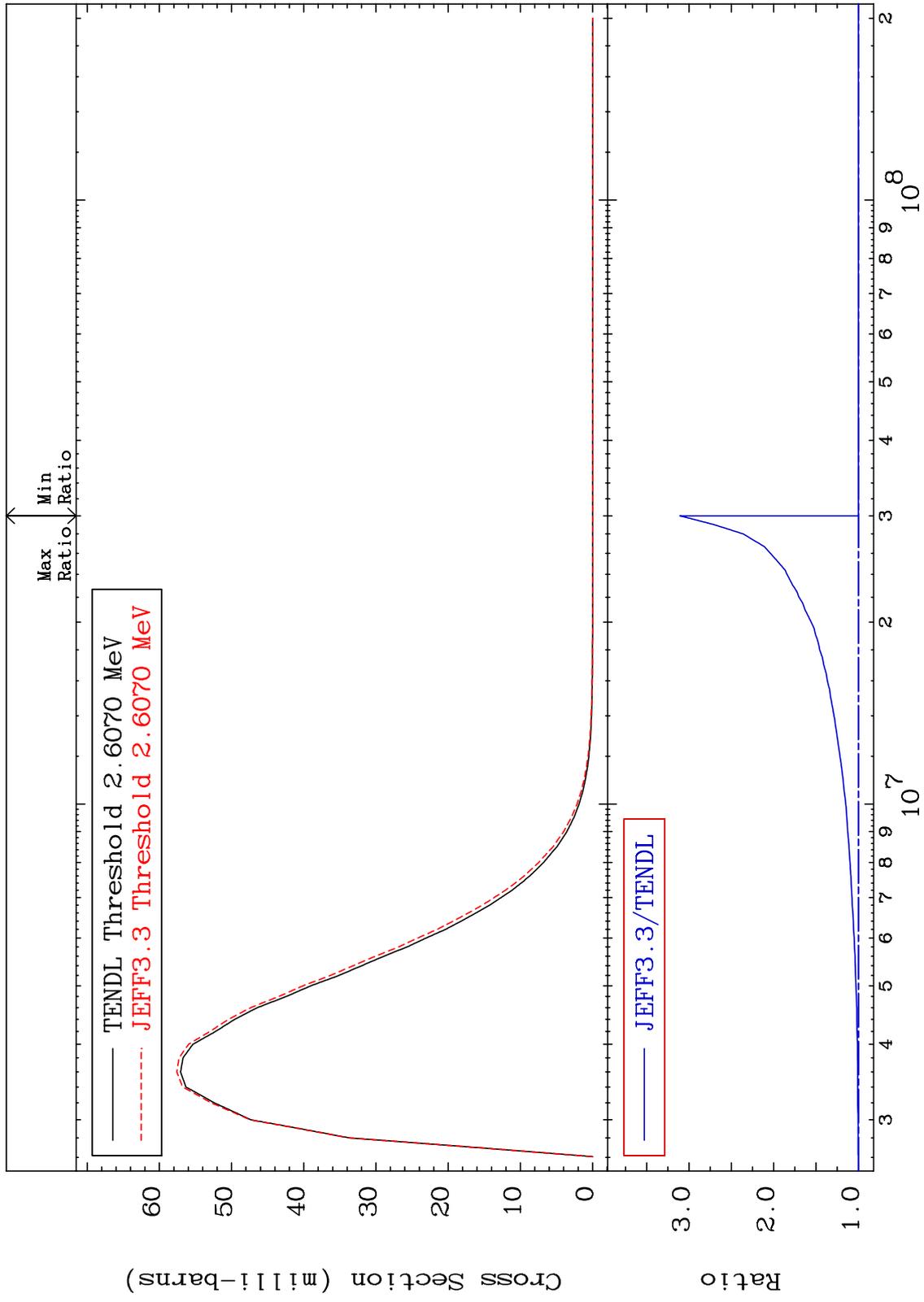
Incident Energy (eV)

19-K -40

MAT 1928

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

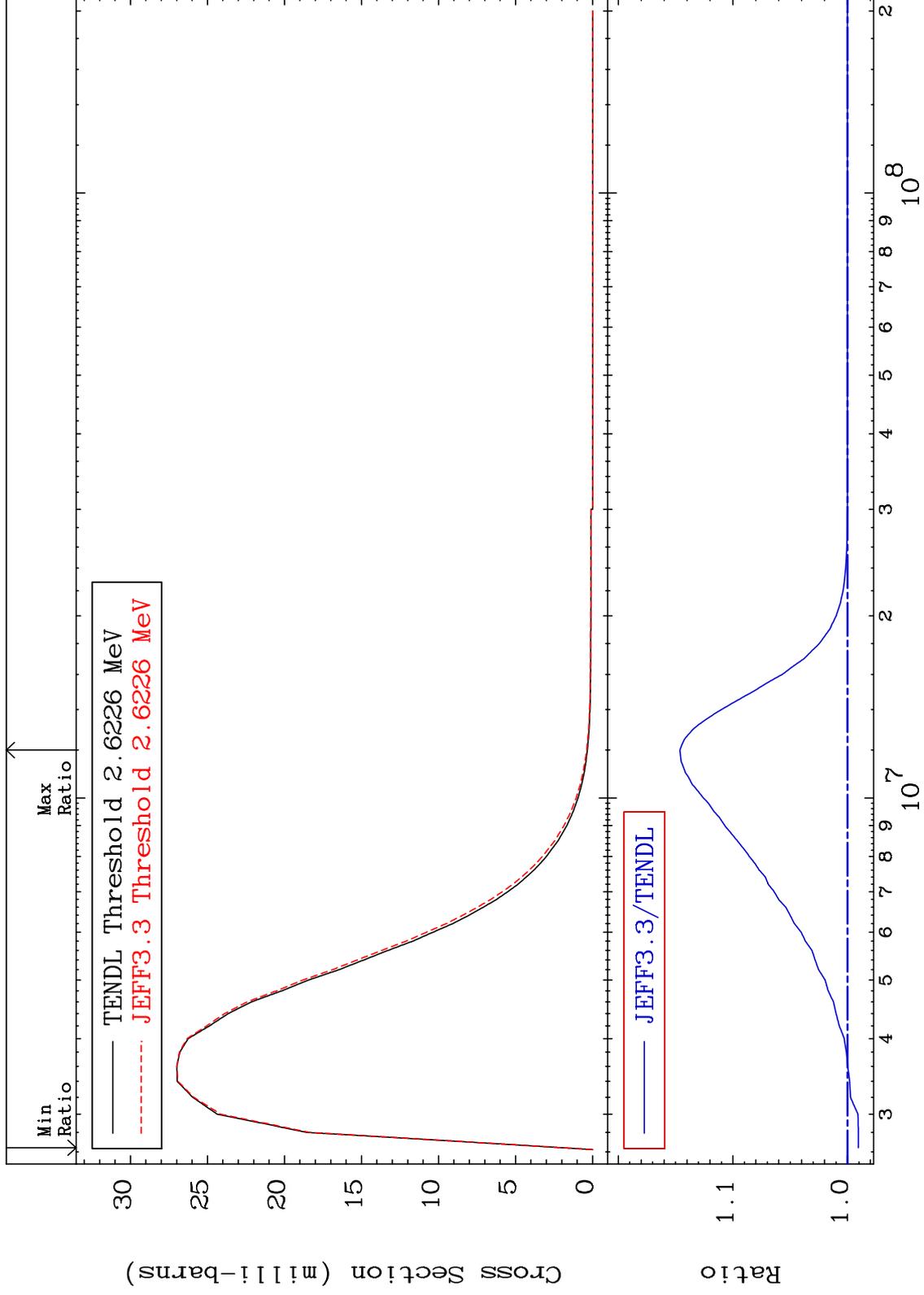
19-K -40  
0.000 To 210.7 %



MAT 1928

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

19-K -40  
-0.949 To 14.62 %



32

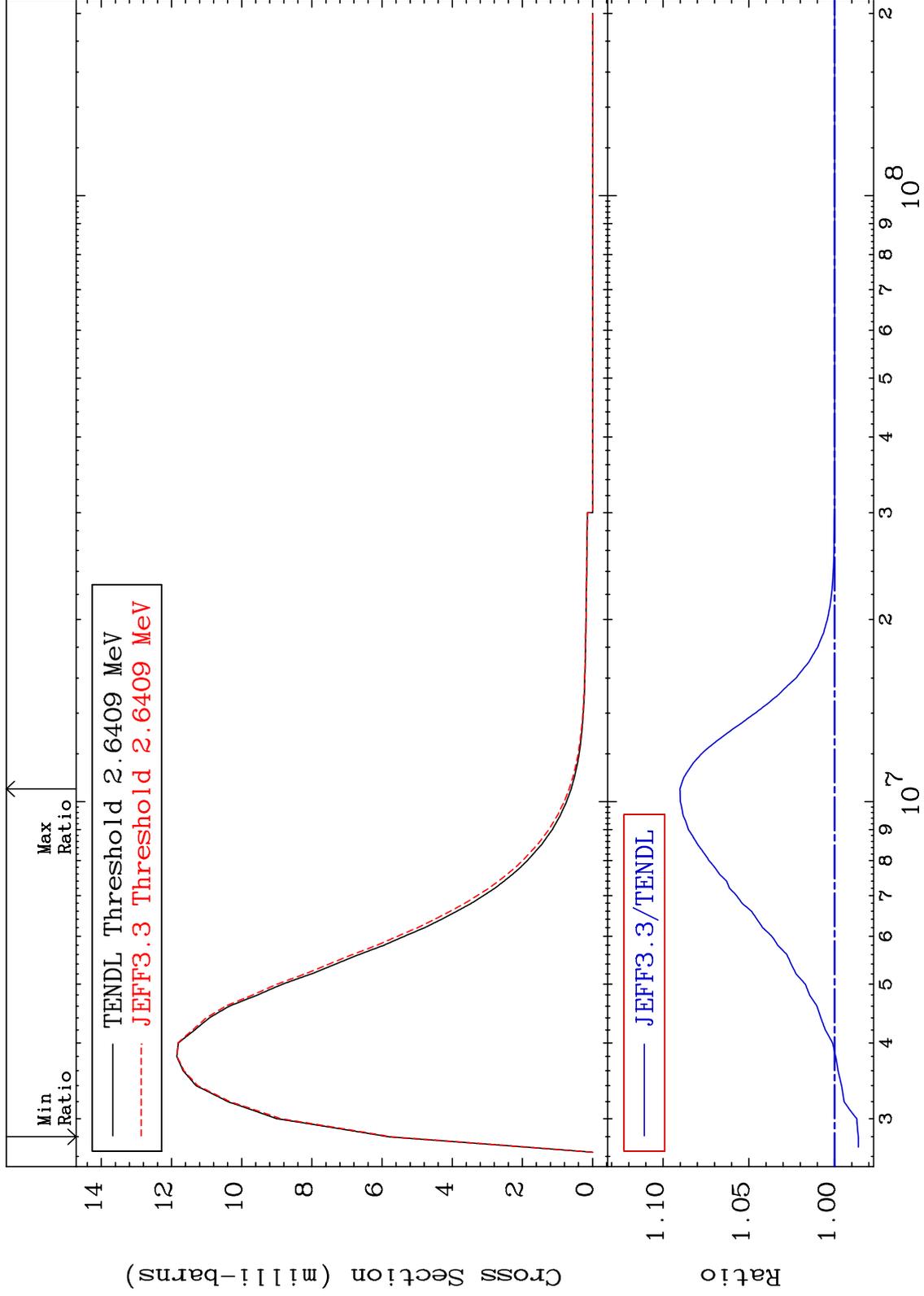
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40  
-1.388 To 9.016 %



33

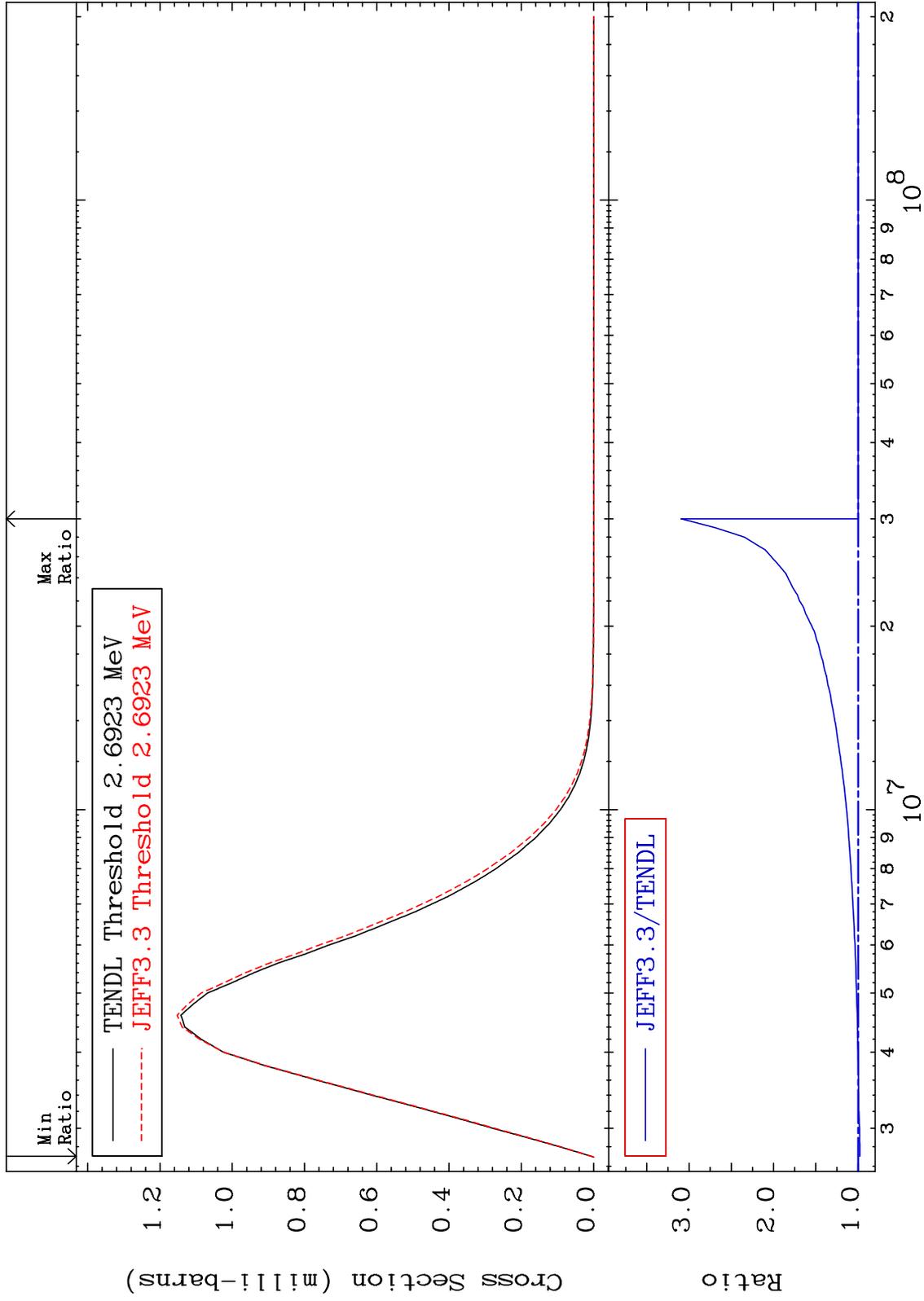
Incident Energy (eV)

19-K -40

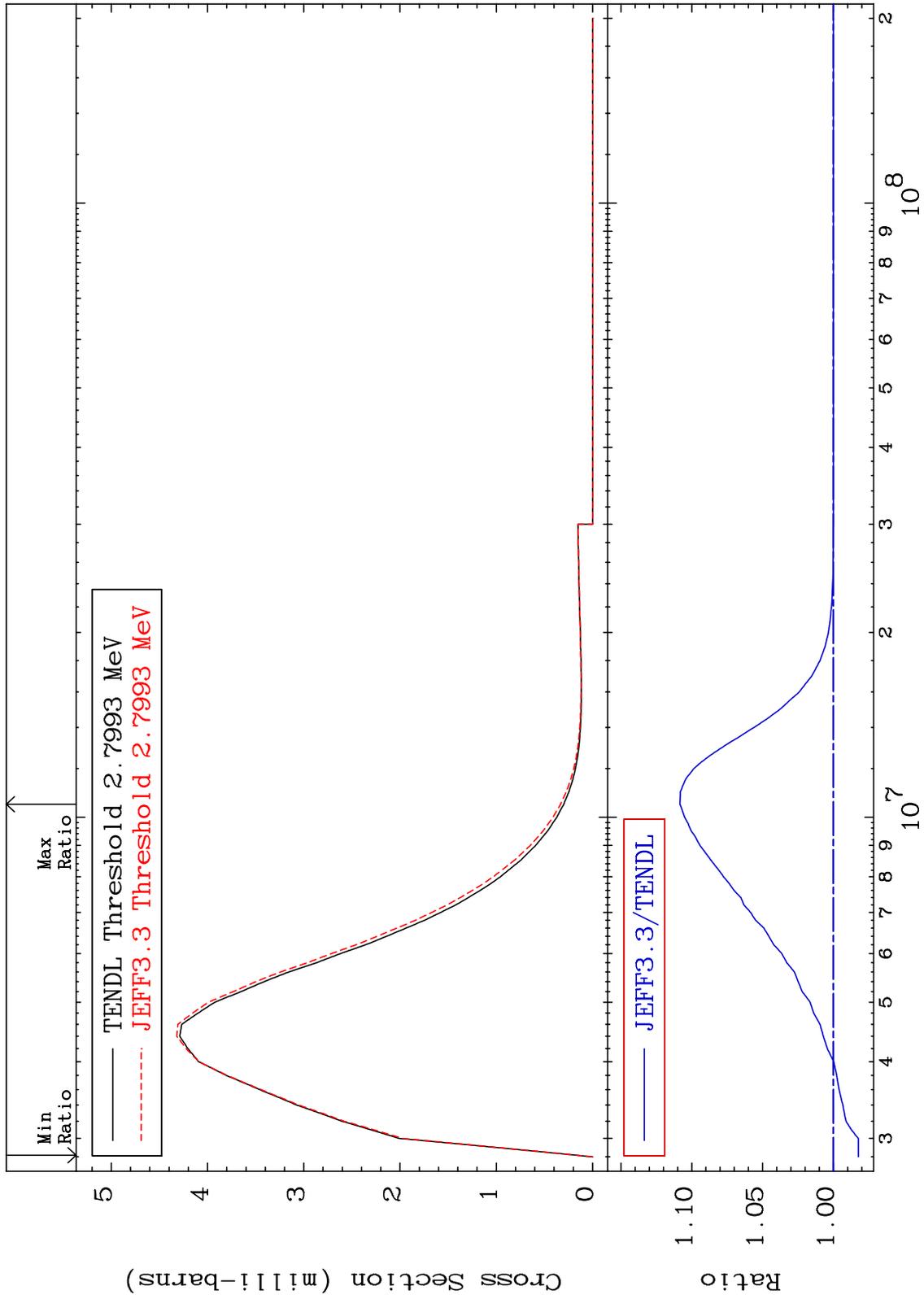
MAT 1928

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

19-K -40  
-2.185 To 209.4 %



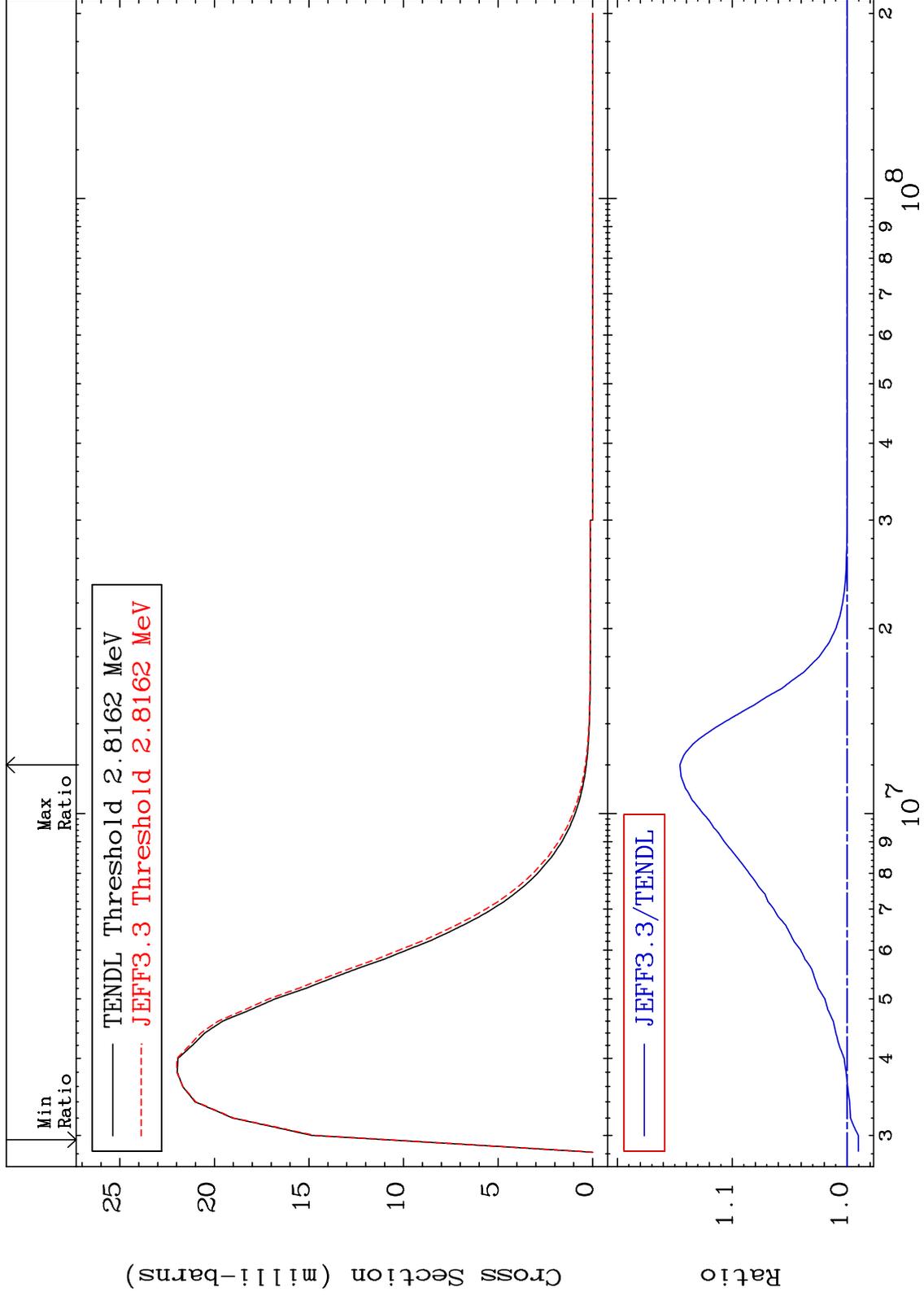
MAT 1928 MT= 68 (n,n') Level  
 Cross Section 19-K -40  
 -1.763 To 10.84 %



MAT 1928

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

19-K -40  
-0.975 To 14.55 %



36

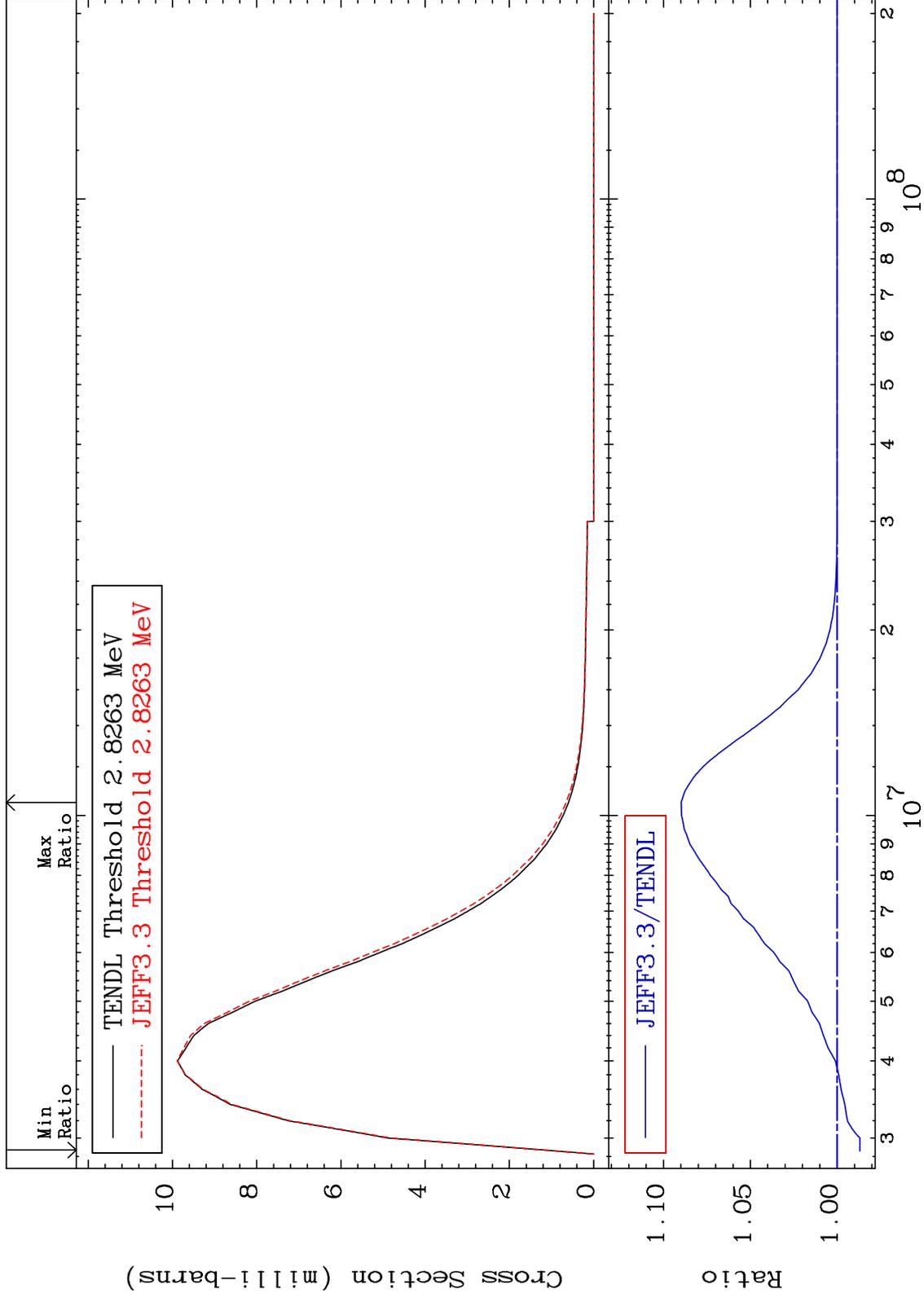
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40  
-1.310 To 8.986 %



37

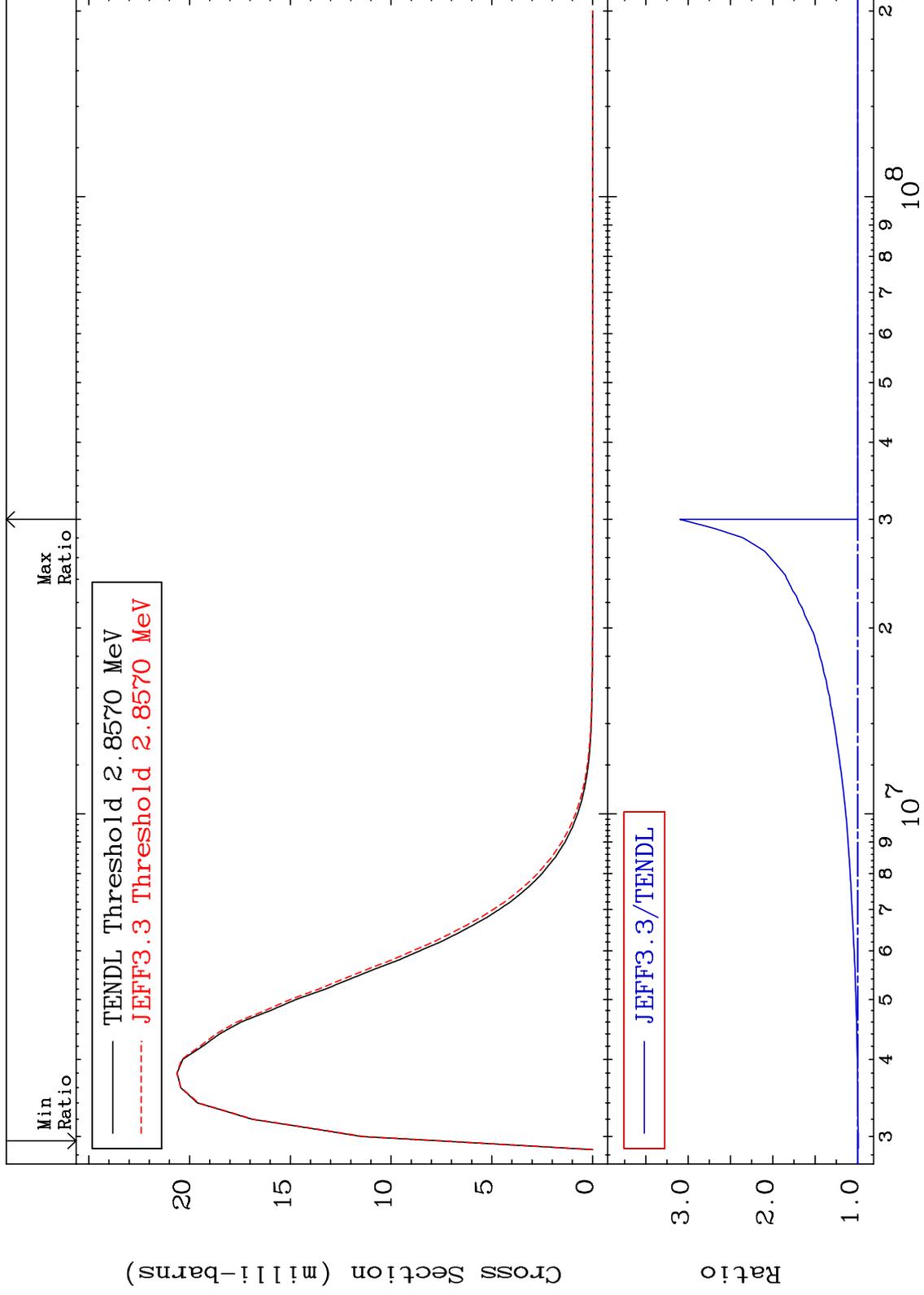
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40  
-0.953 To 209.7 %



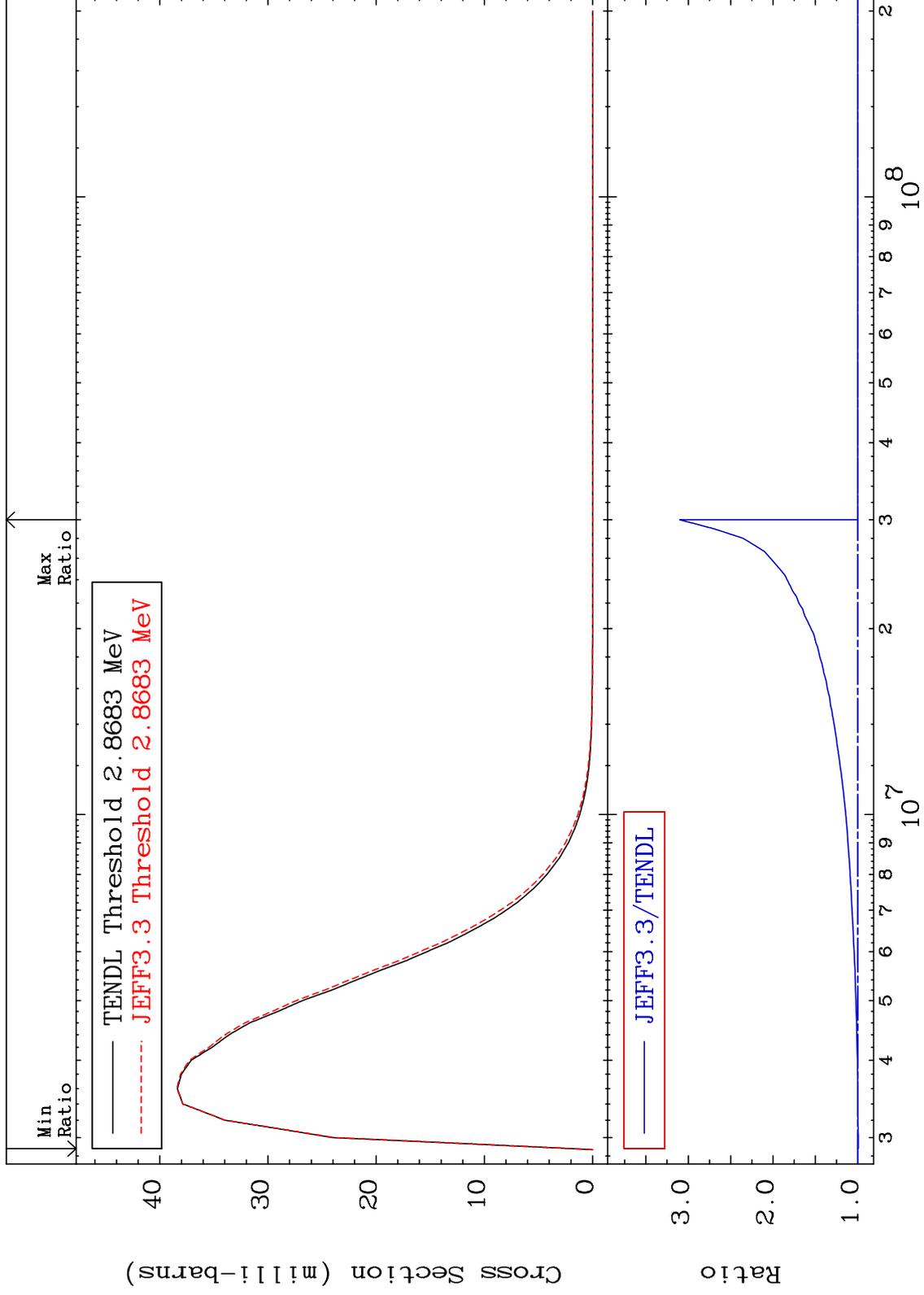
38

19-K -40

MAT 1928

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

19-K -40  
-0.732 To 209.9 %



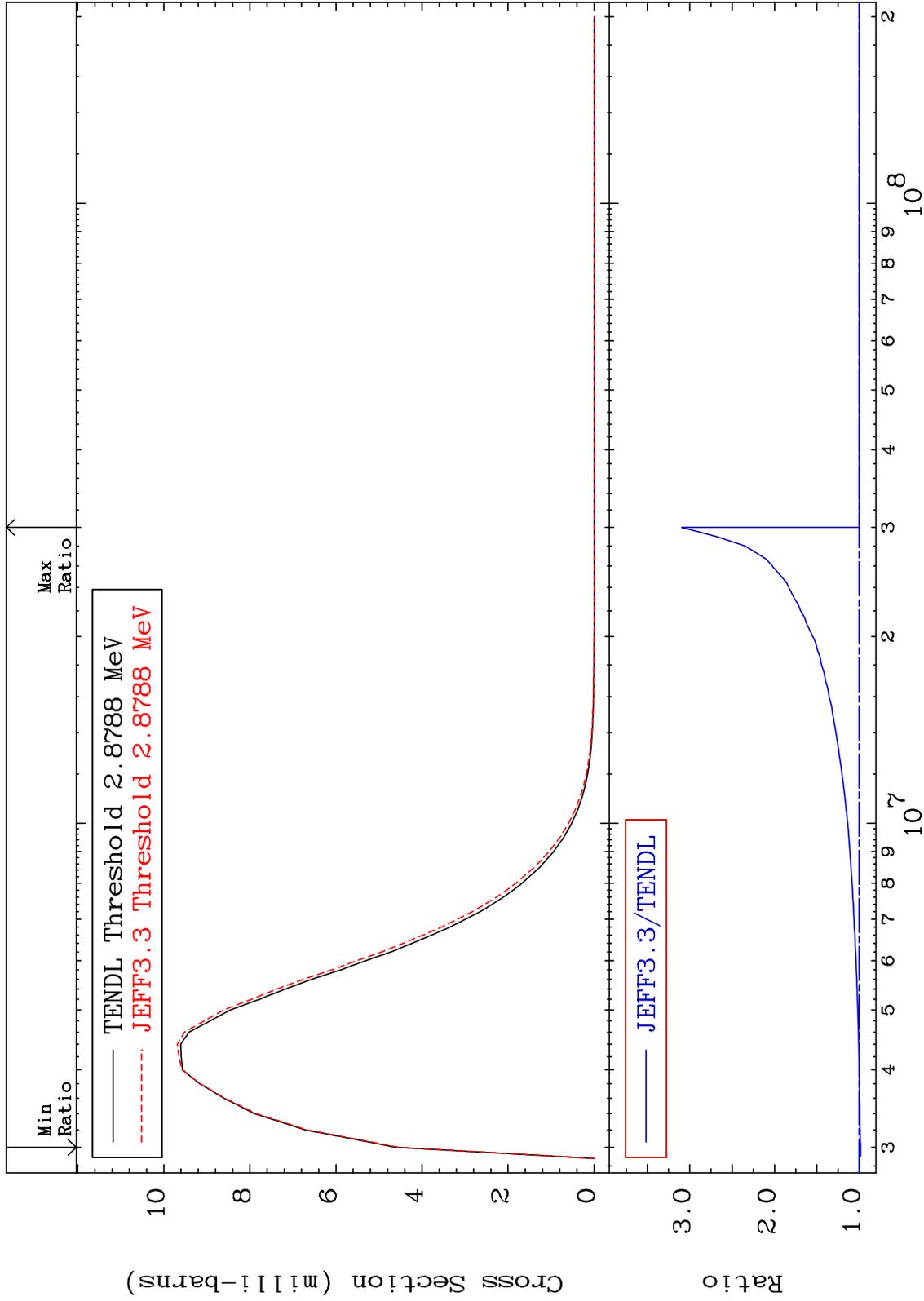
39

19-K -40

MAT 1928

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

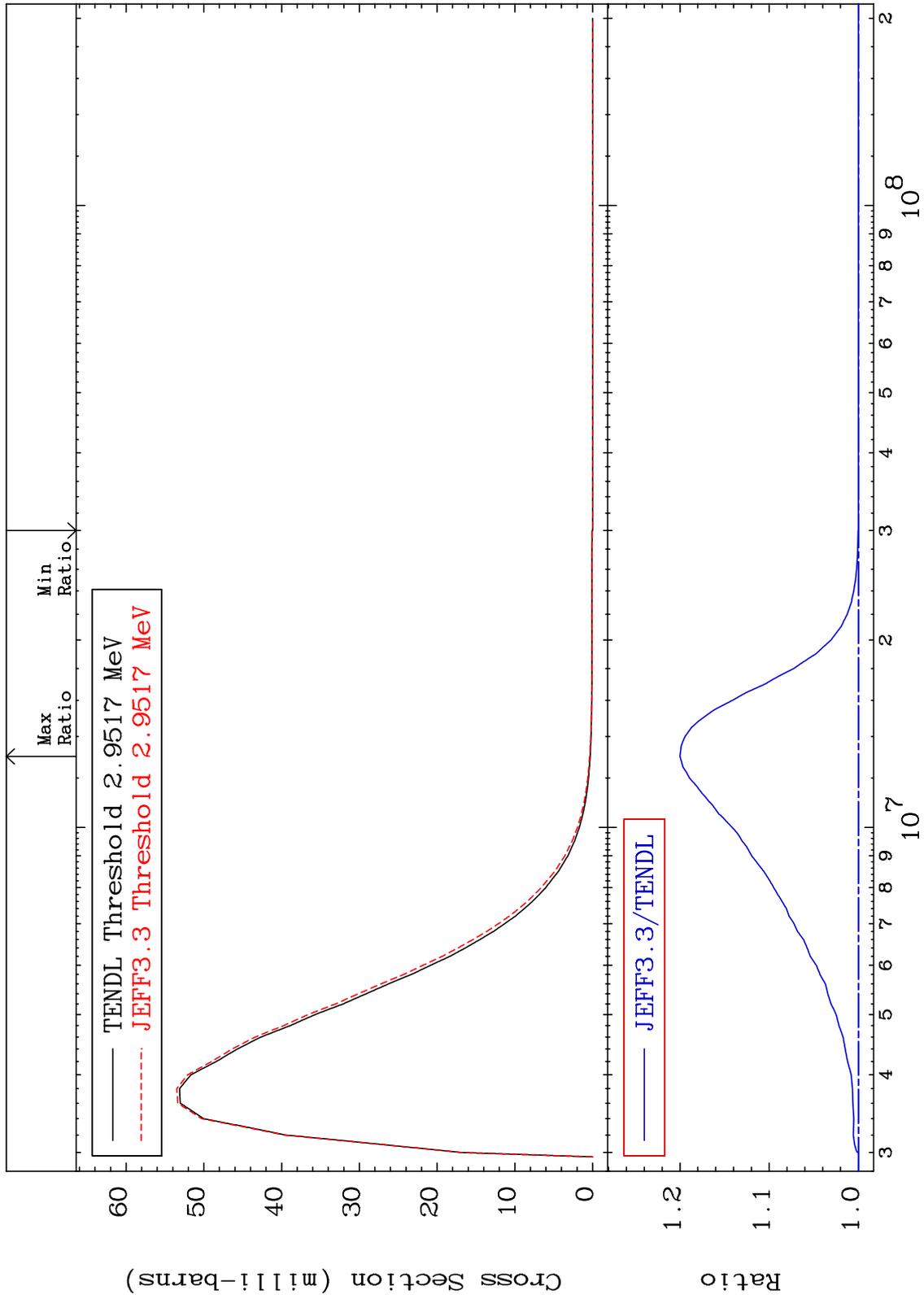
19-K -40  
-1.570 To 209.5 %



40

19-K -40

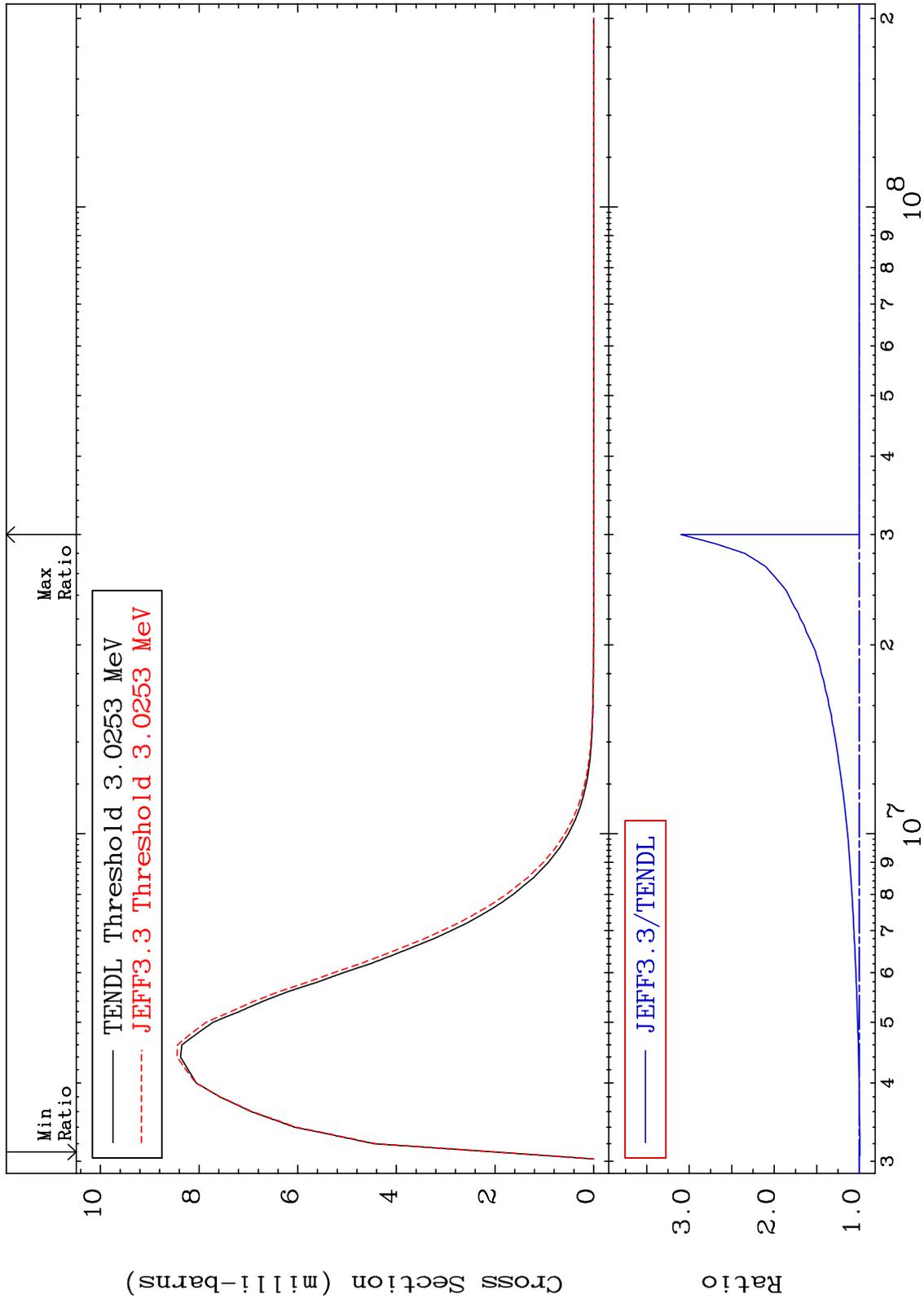
MAT 1928 MT= 74 (n, n') Level 19-K -40  
 Cross Section 0.000 To 20.01 %



MAT 1928

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

19-K -40  
-0.772 To 209.5 %



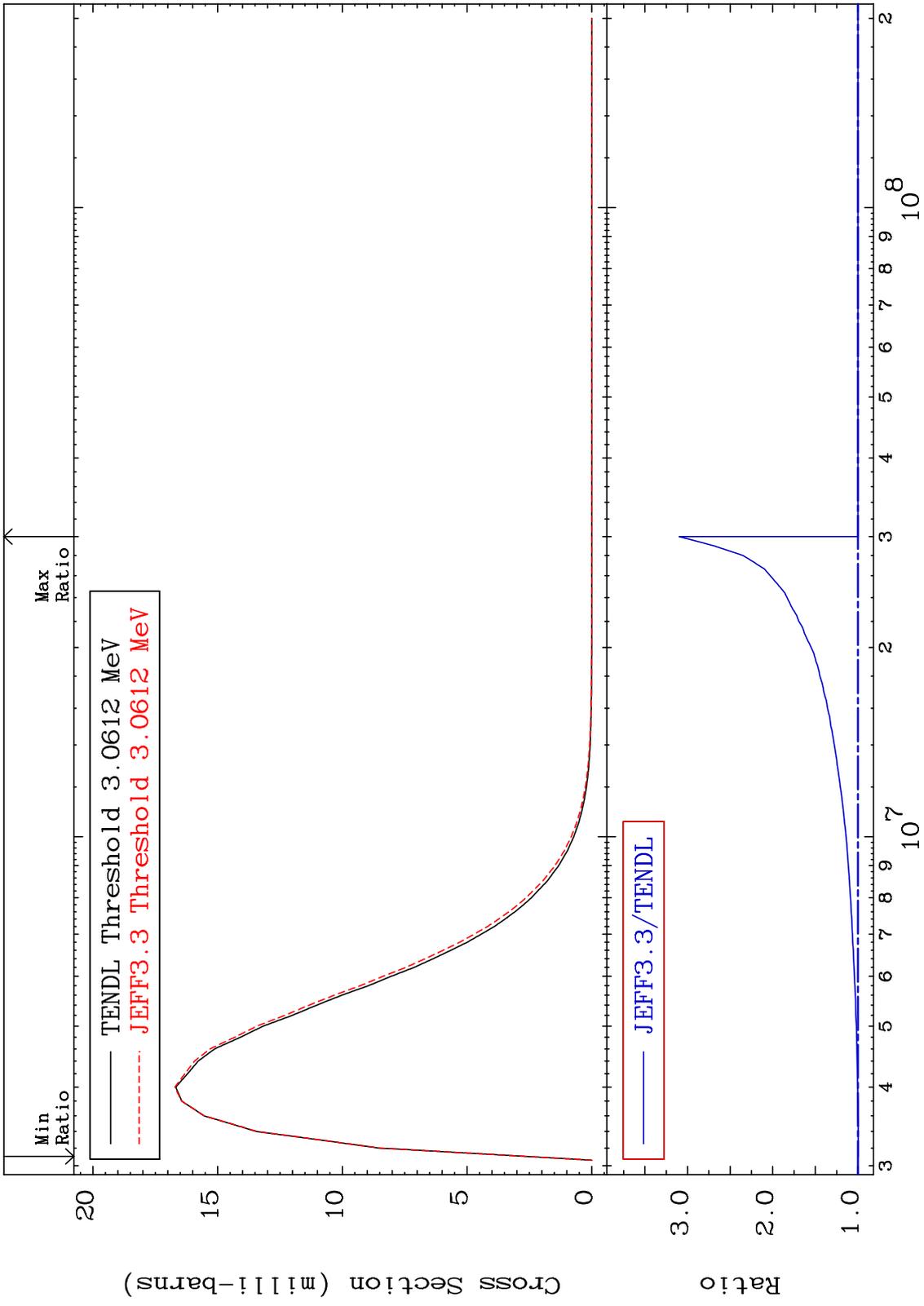
42

19-K -40

MAT 1928

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

19-K -40  
-0.320 To 209.7 %



43

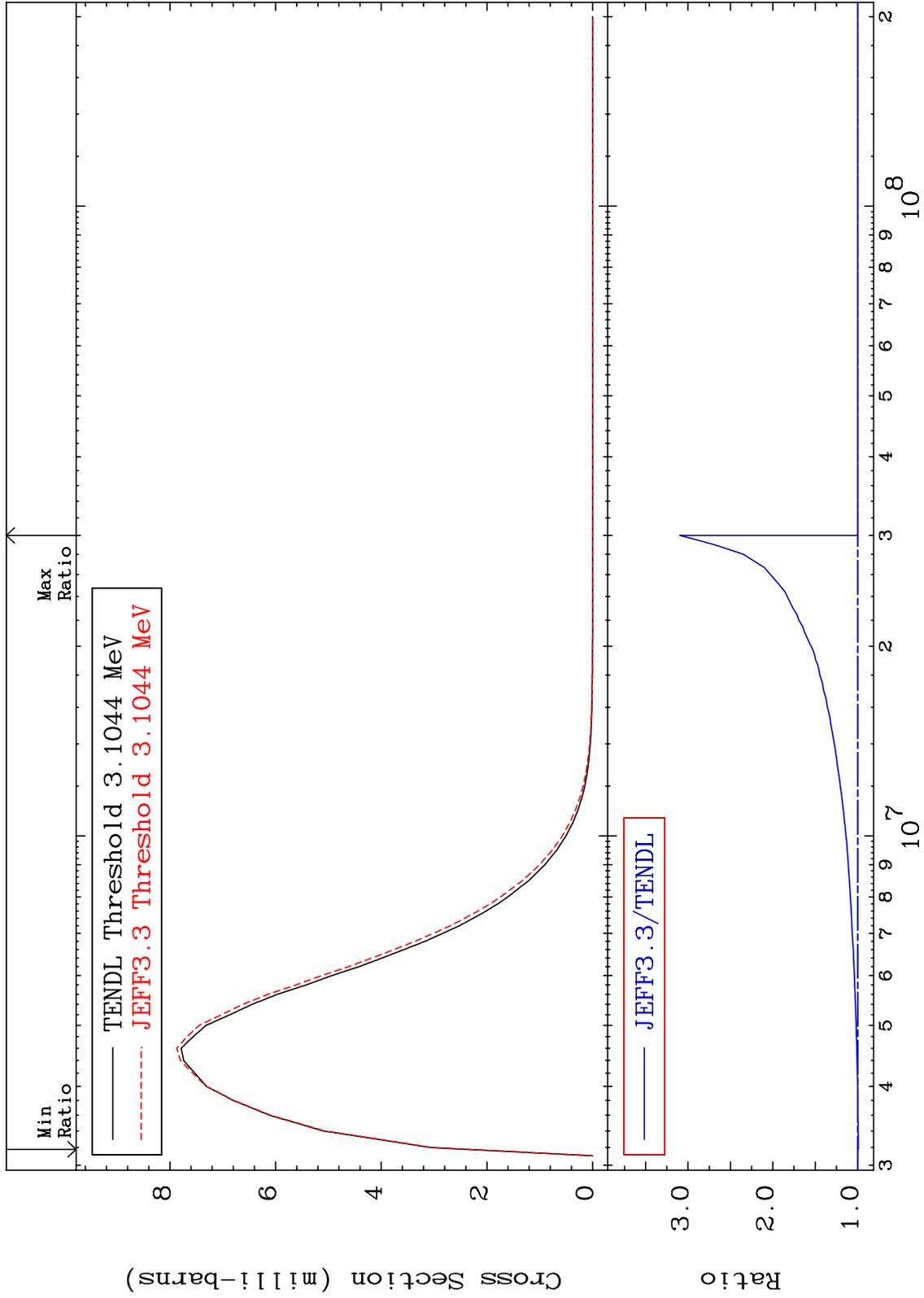
Incident Energy (eV)

19-K -40

MAT 1928

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

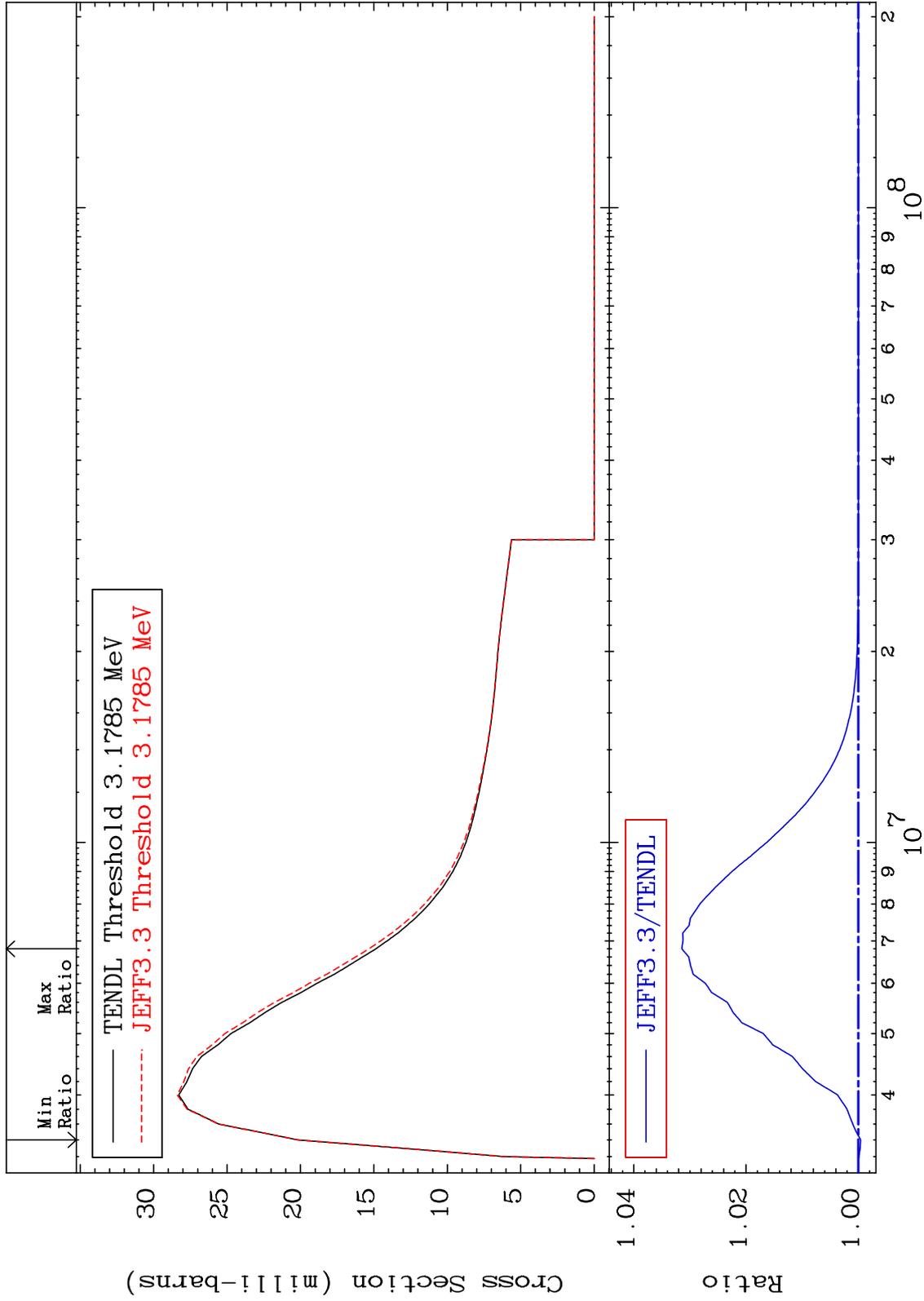
19-K -40  
-0.833 To 209.5 %



MAT 1928

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

19-K -40  
-0.041 To 3.146 %



45

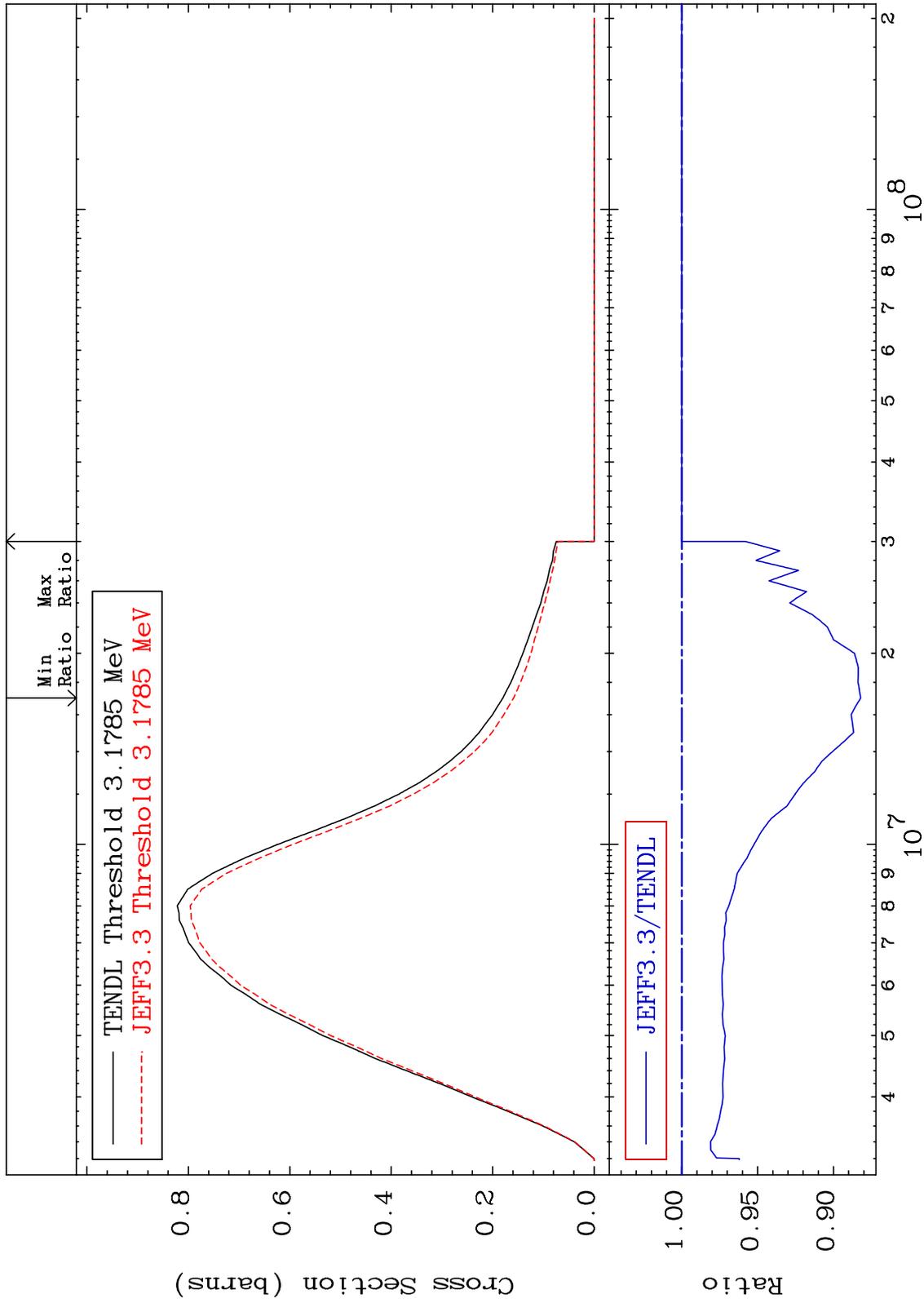
Incident Energy (eV)

19-K -40

MAT 1928

(n, n') Continuum  
Cross Section

19-K -40  
-11.79 To 0.000 %



46

Incident Energy (eV)

19-K -40

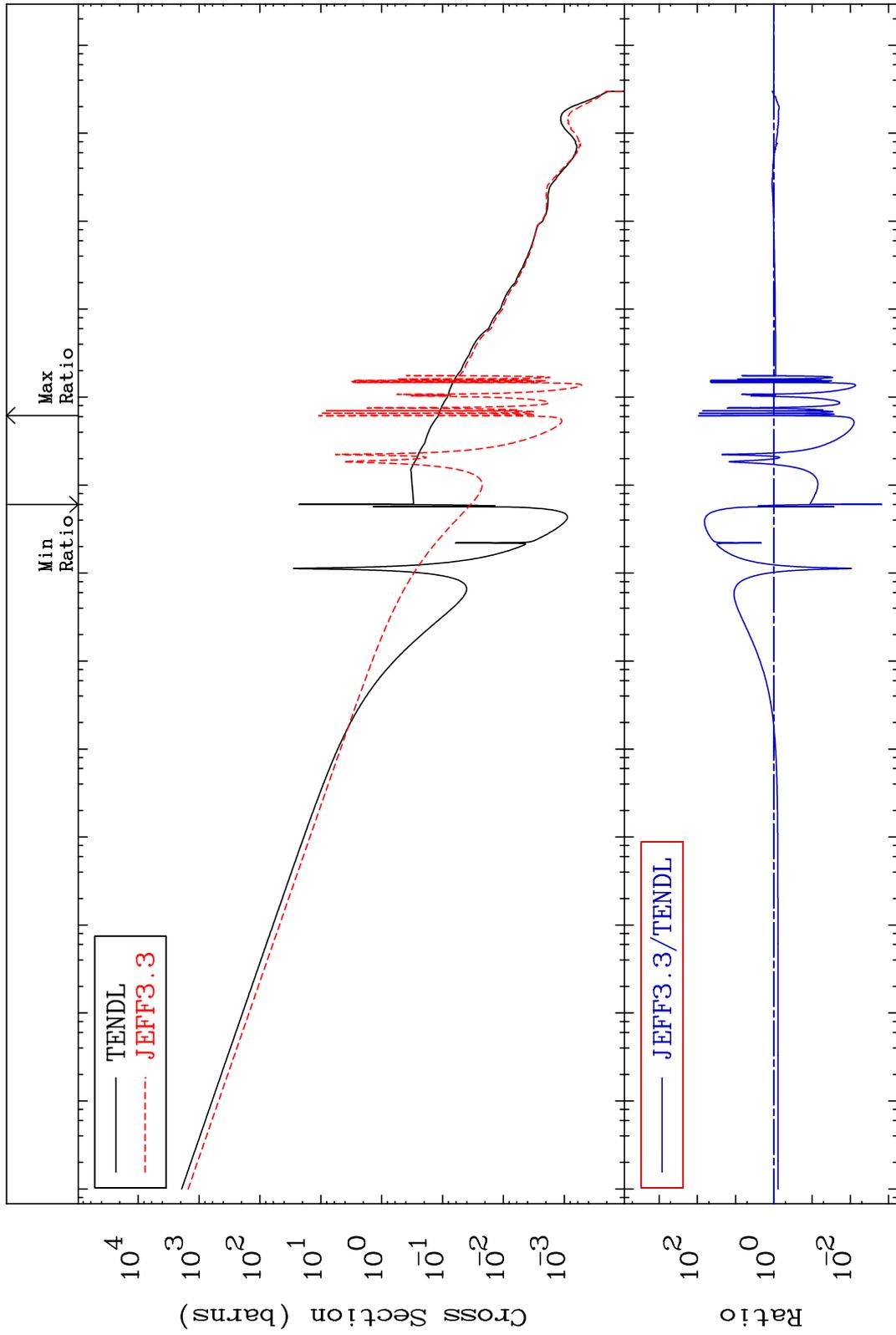
MAT 1928

(n,  $\gamma$ )

19-K -40

Cross Section

-99.85 To 9116. %



47

Incident Energy (eV)

19-K -40

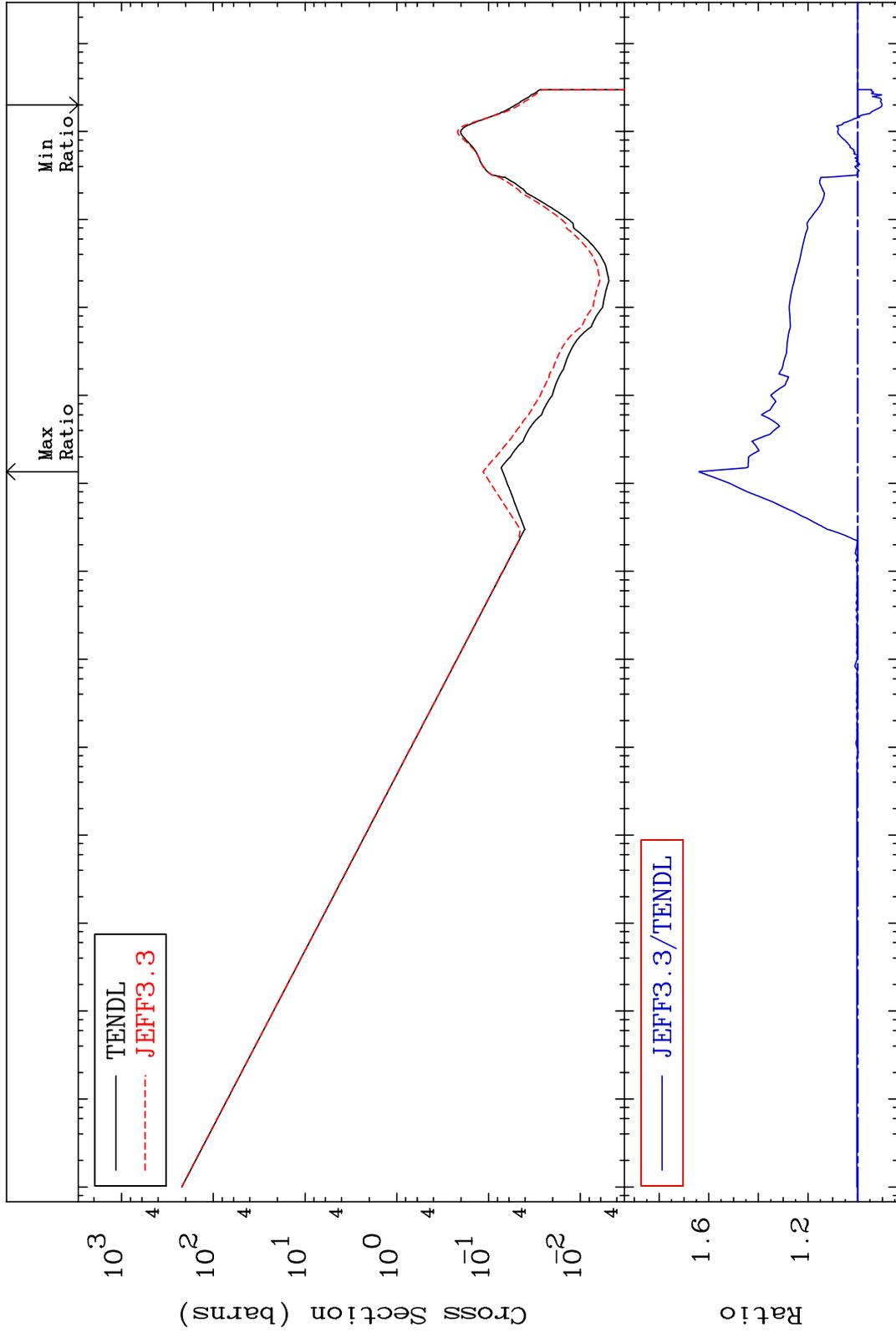
MAT 1928

(n,p)

19-K -40

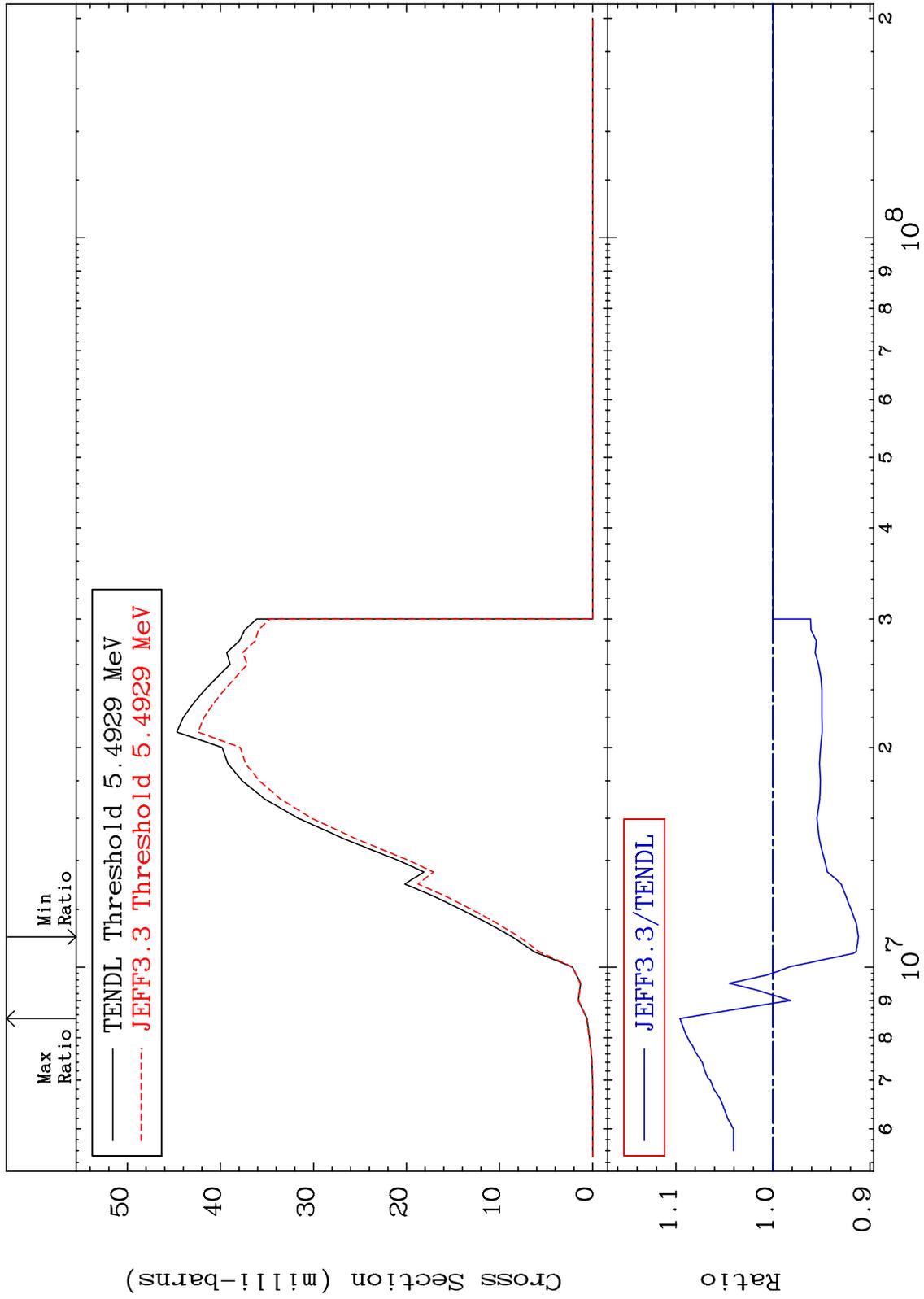
Cross Section

-9.881 To 64.06 %



Incident Energy (eV) 19-K -40

MAT 1928 (n,d) Cross Section 19-K -40  
-8.820 To 9.579 %



49 19-K -40

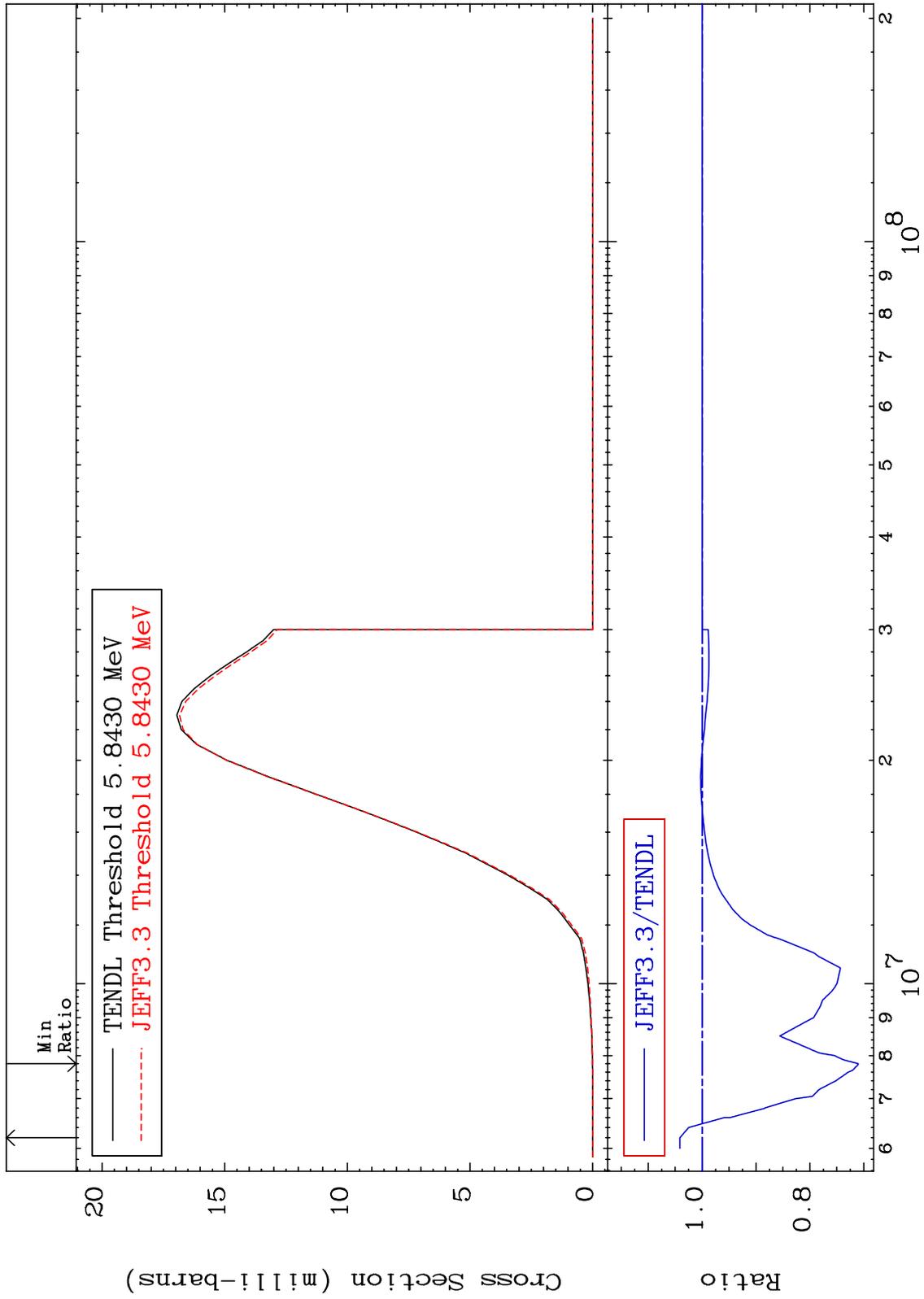
MAT 1928

(n, t)

19-K -40

Cross Section

-29.01 To 4.108 %



50

Incident Energy (eV)

19-K -40

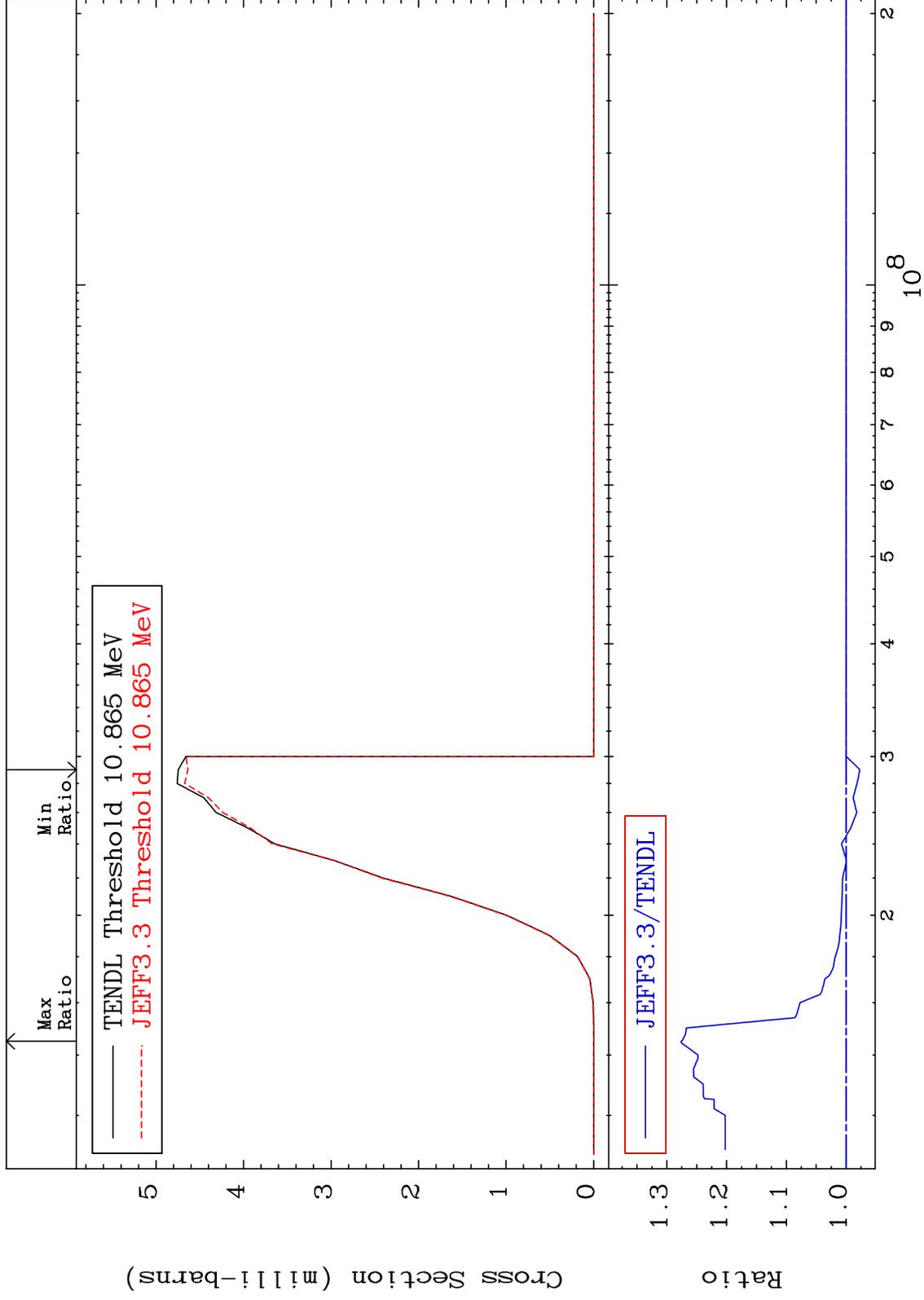
MAT 1928

(n, He-3)

19-K -40

Cross Section

-2.316 To 27.61 %



MAT 1928

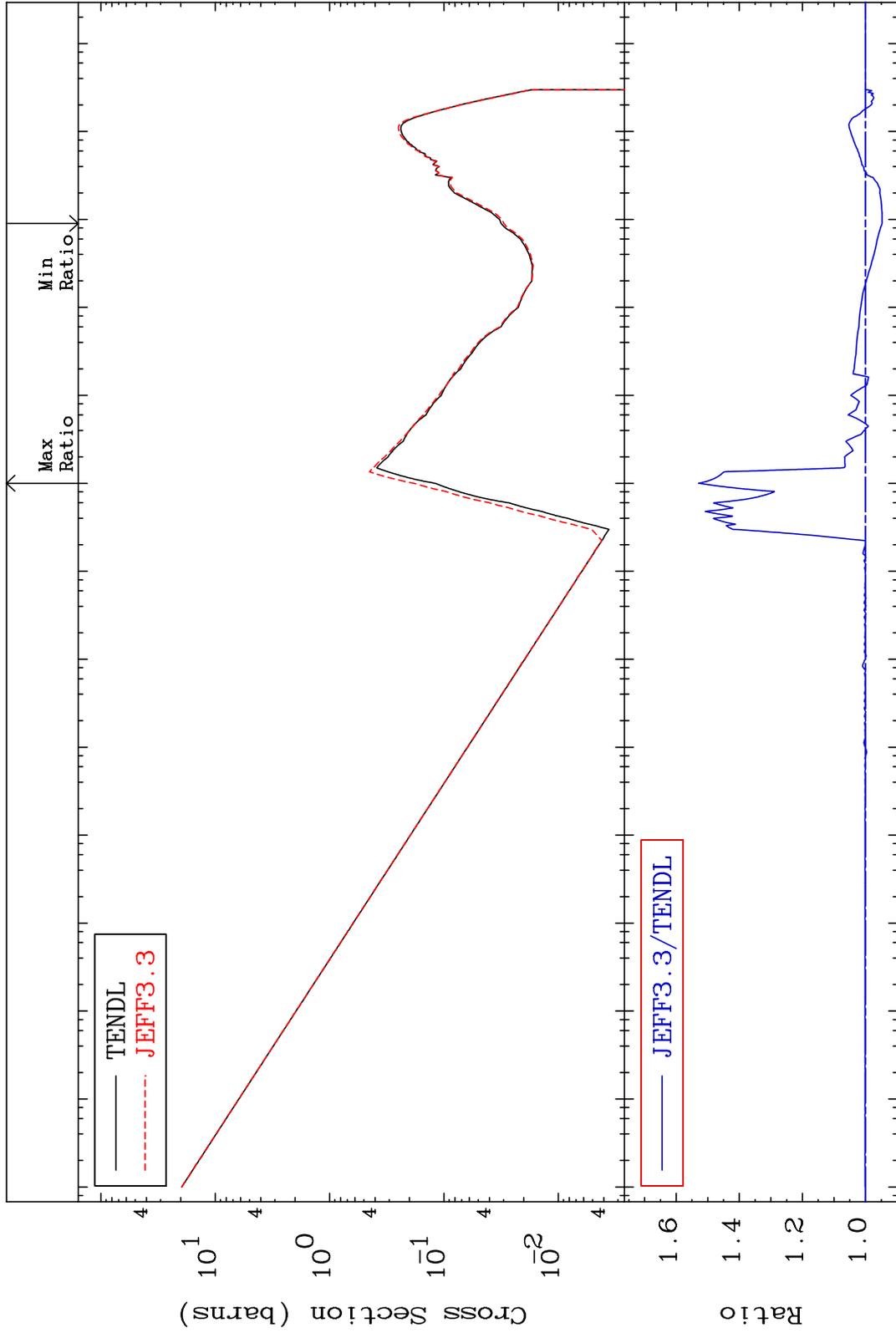
(n,  $\alpha$ )

19-K -40

Cross Section

Cross Section

-5.241 To 52.87 %



Incident Energy (eV)

19-K -40

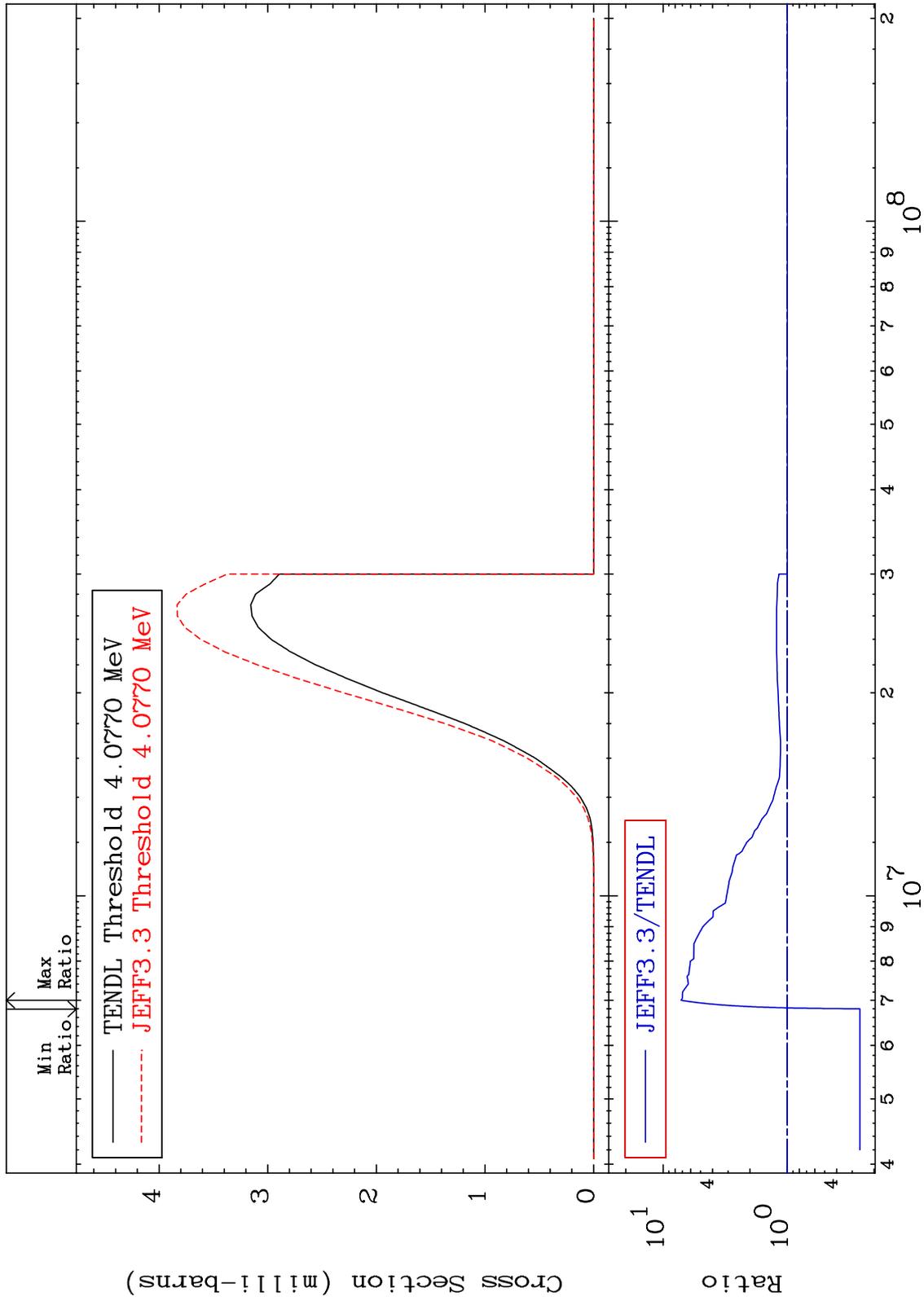
MAT 1928

(n, 2α)

19-K -40

Cross Section

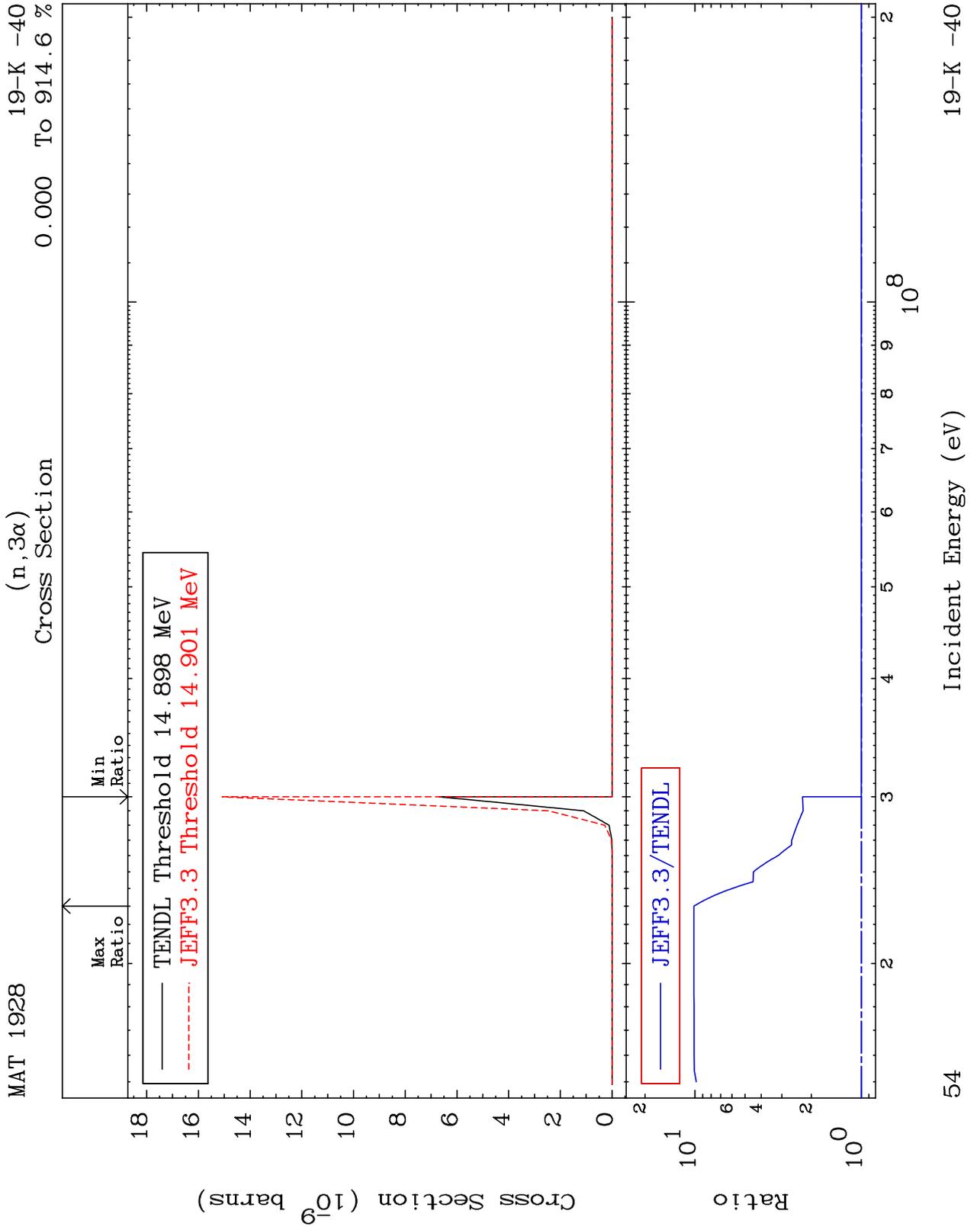
-74.03 To 615.6 %



53

Incident Energy (eV)

19-K -40



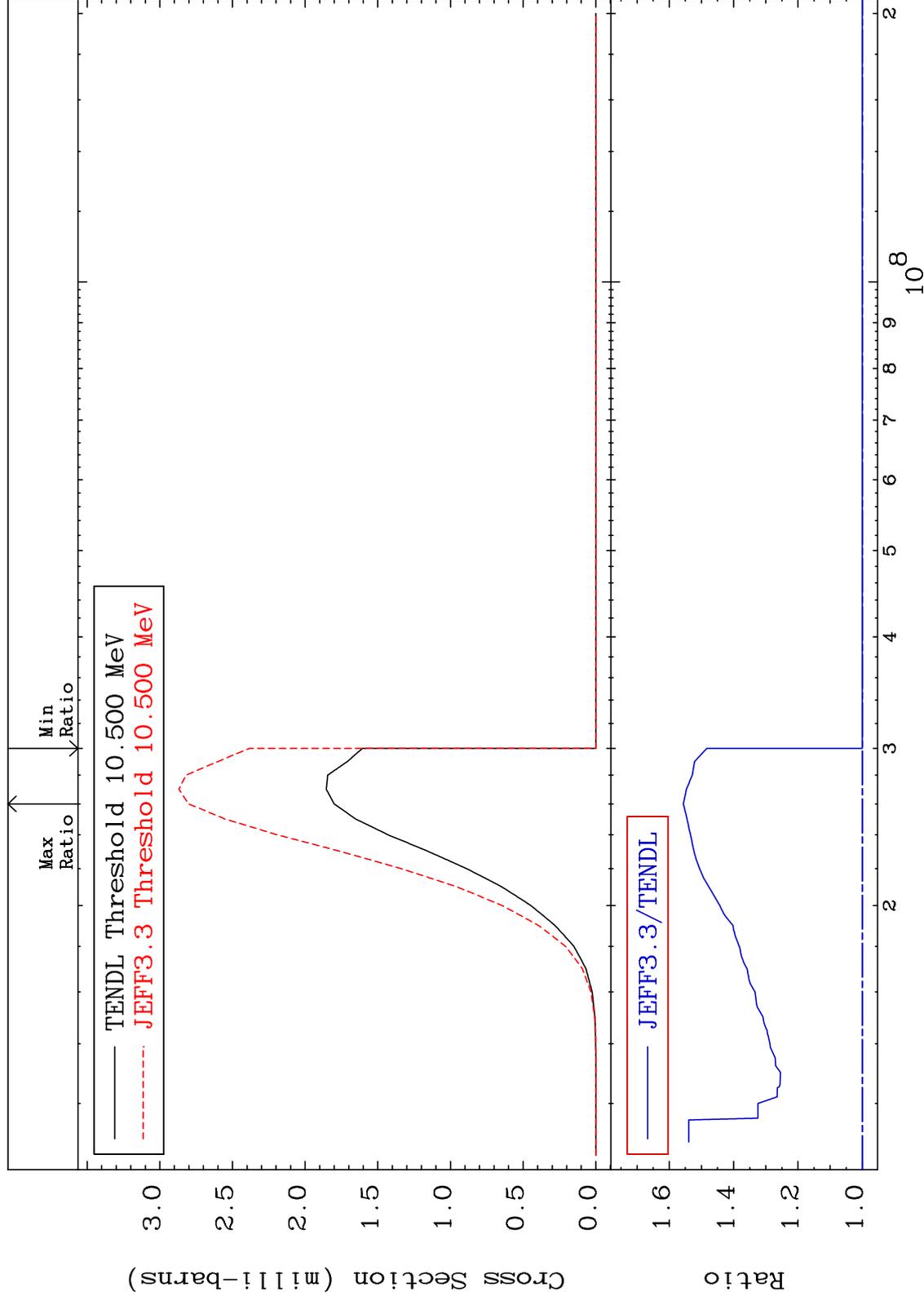
MAT 1928

(n,2p)

Cross Section

0.000 To 55.62 %

19-K -40



55

19-K -40



MAT 1928

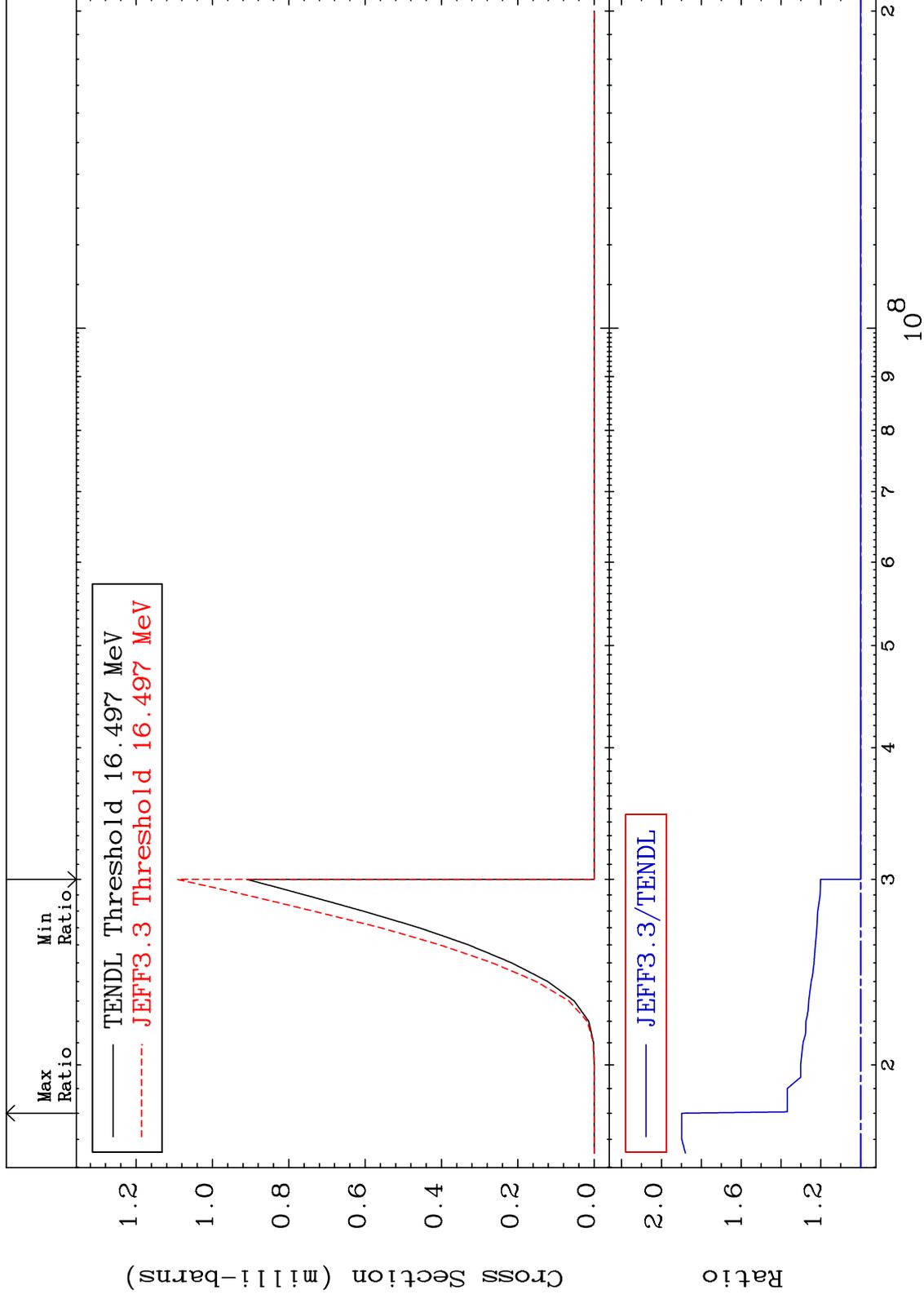
(n,p) d

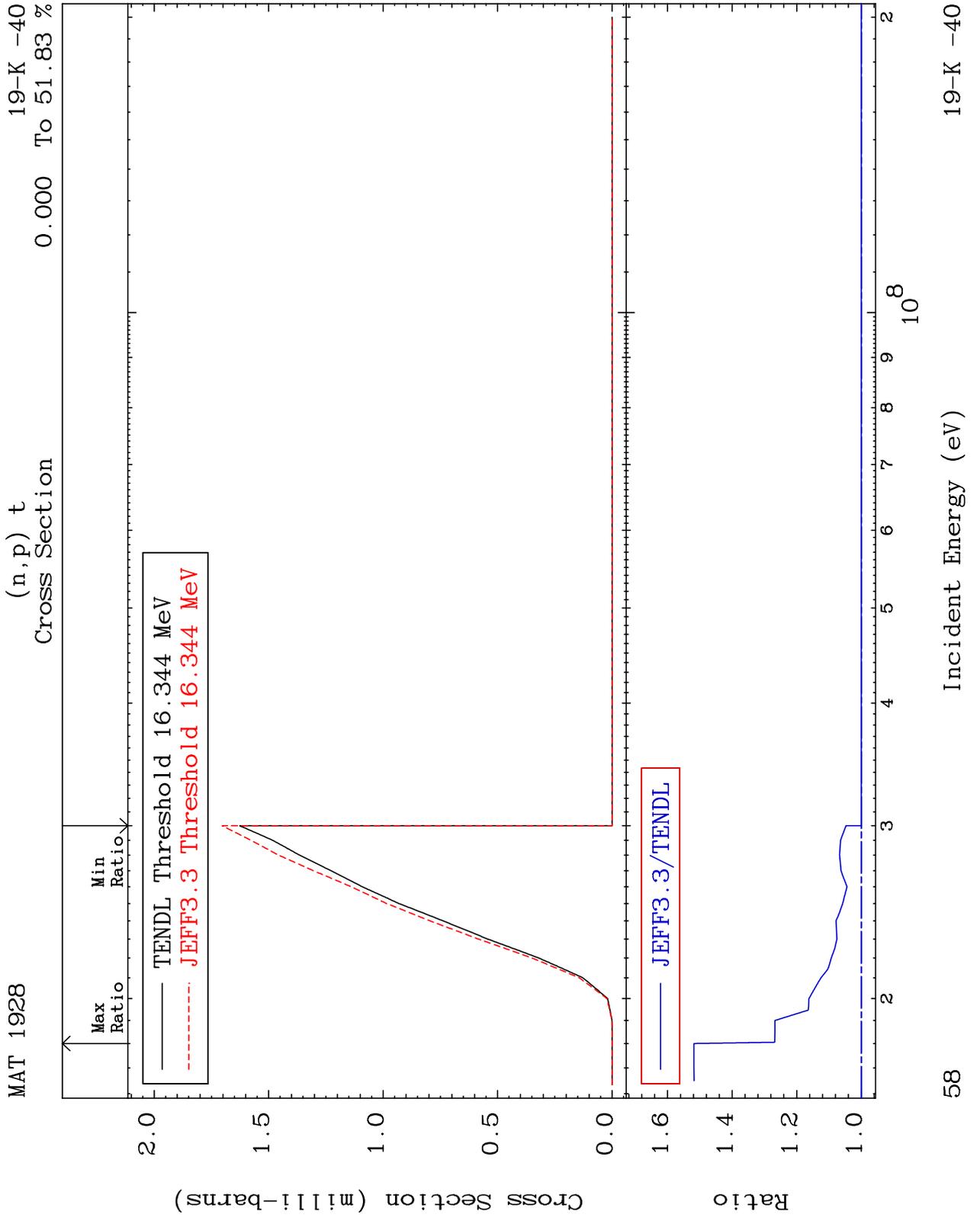
19-K -40

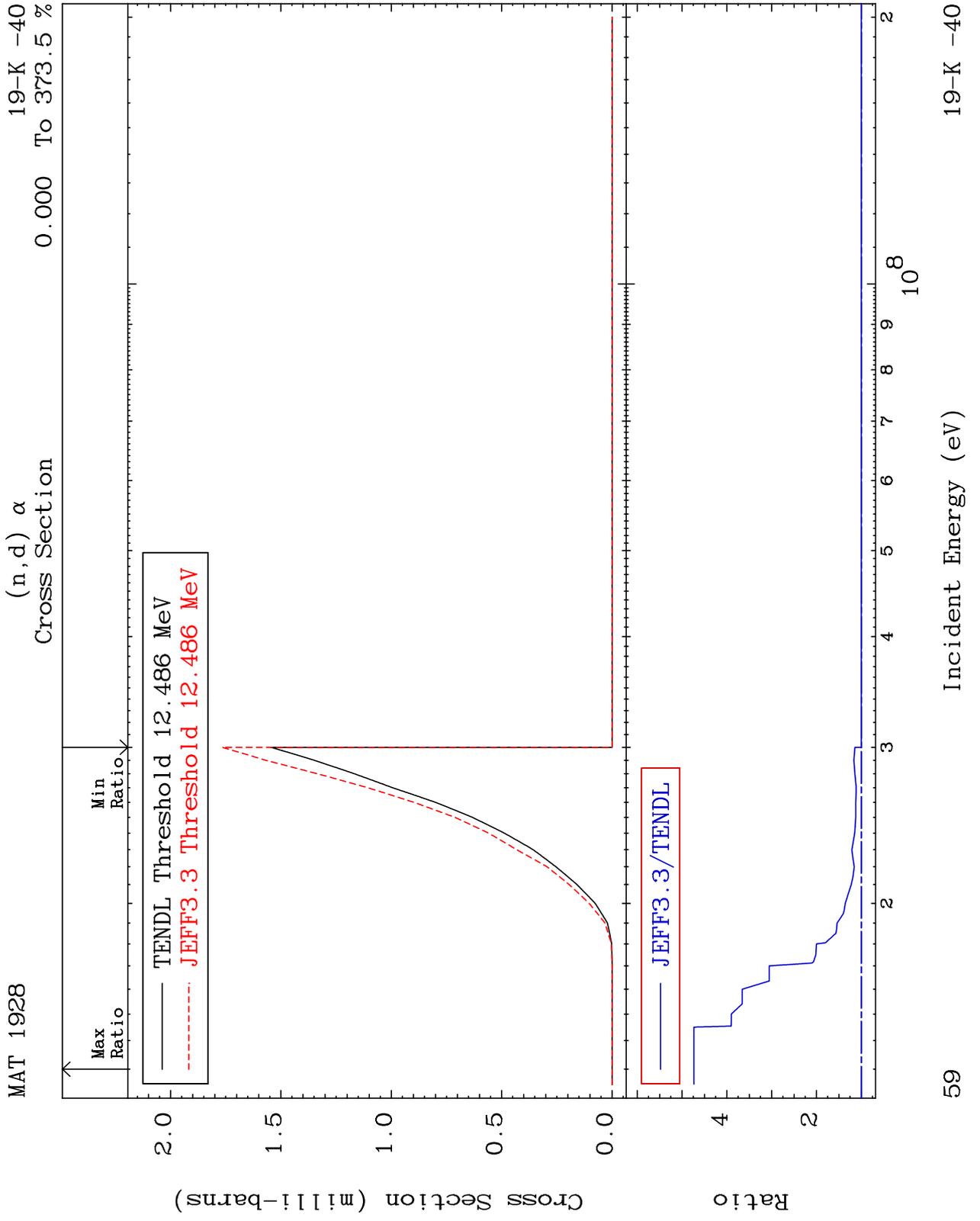
Cross Section

0.000

To 89.81 %



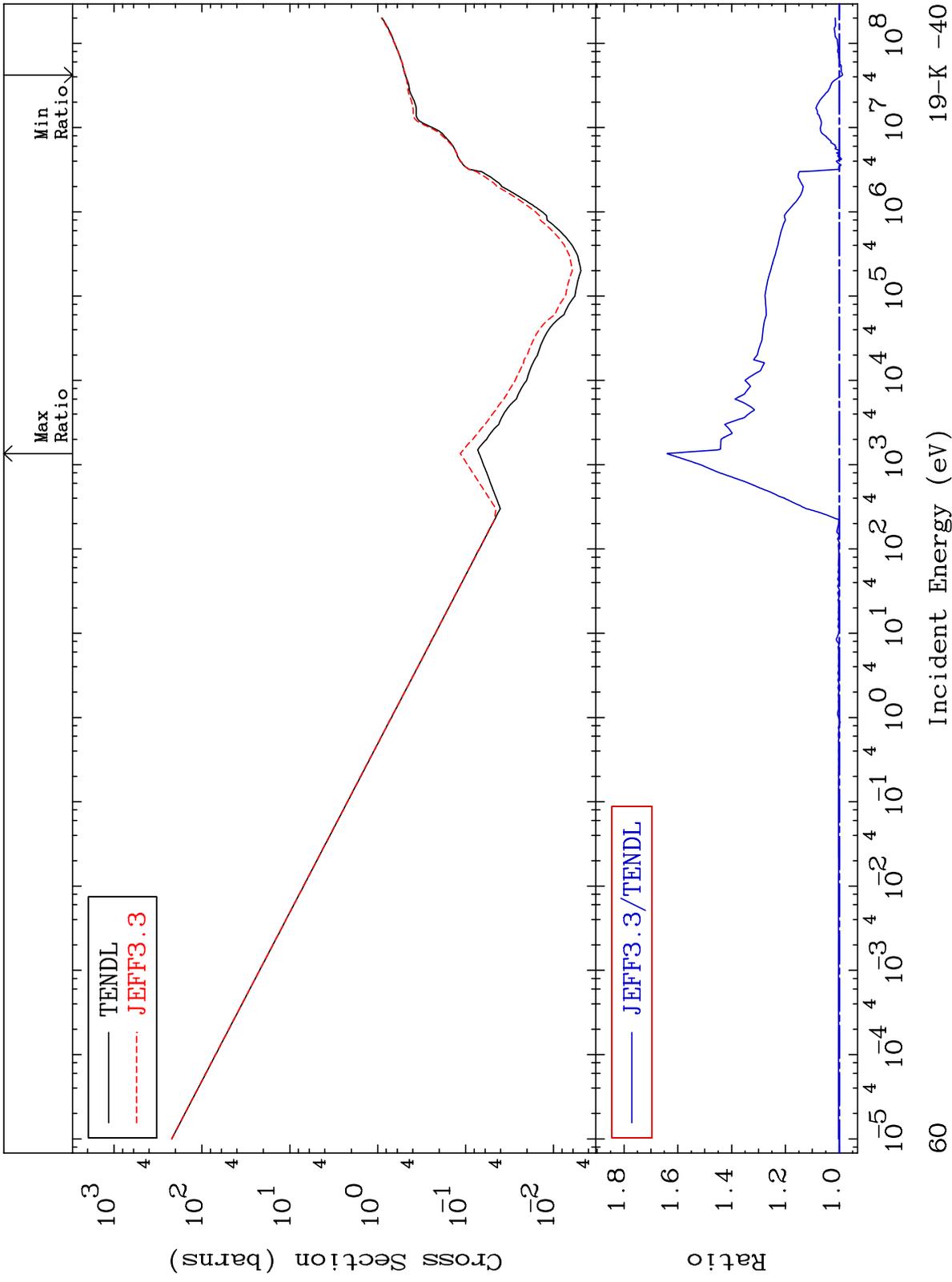




MAT 1928

Hydrogen Production  
Cross Section

19-K -40  
-1.250 To 64.06 %



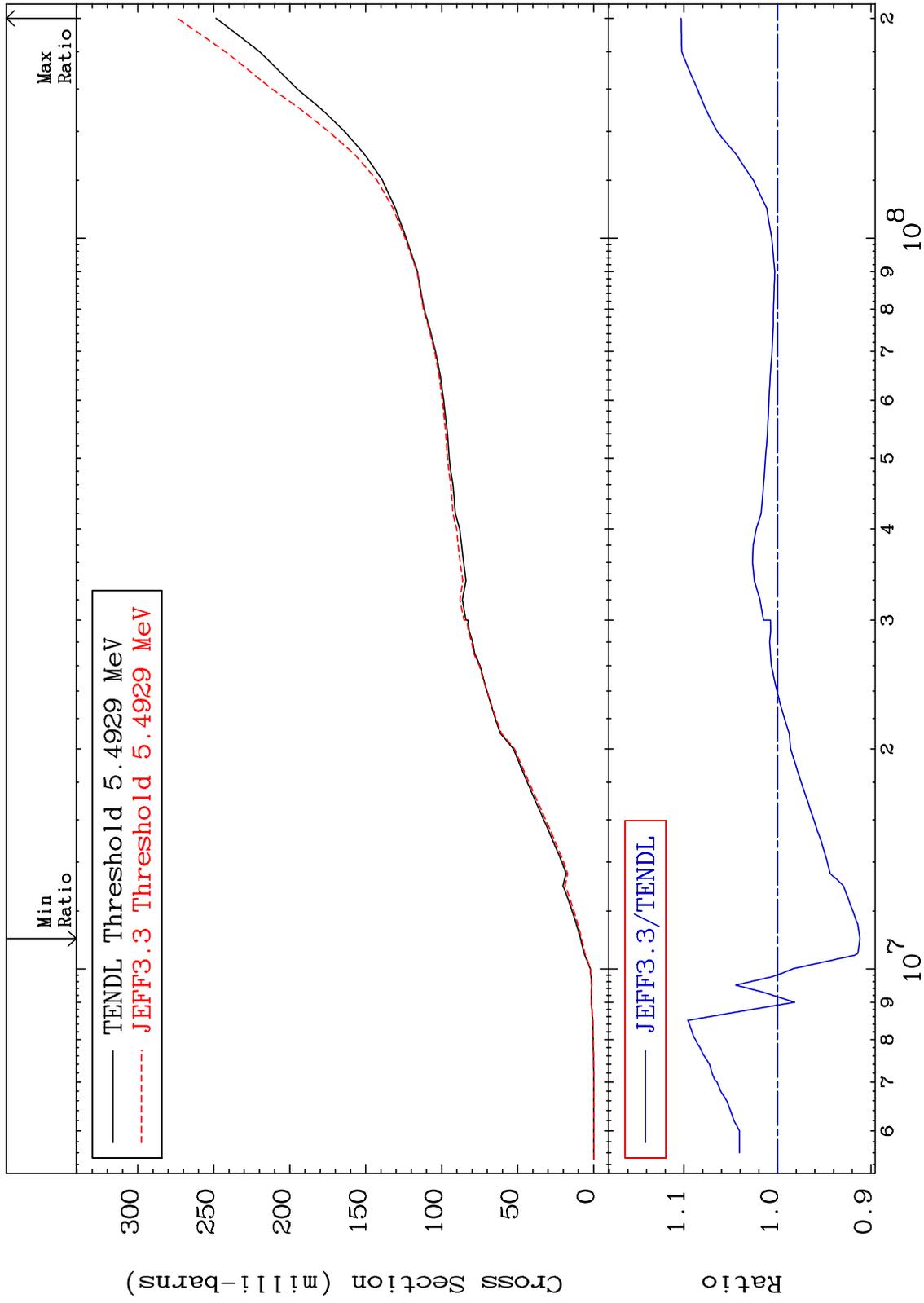
60

19-K -40

MAT 1928

Deuterium Production  
Cross Section

19-K -40  
-8.820 To 10.31 %



61

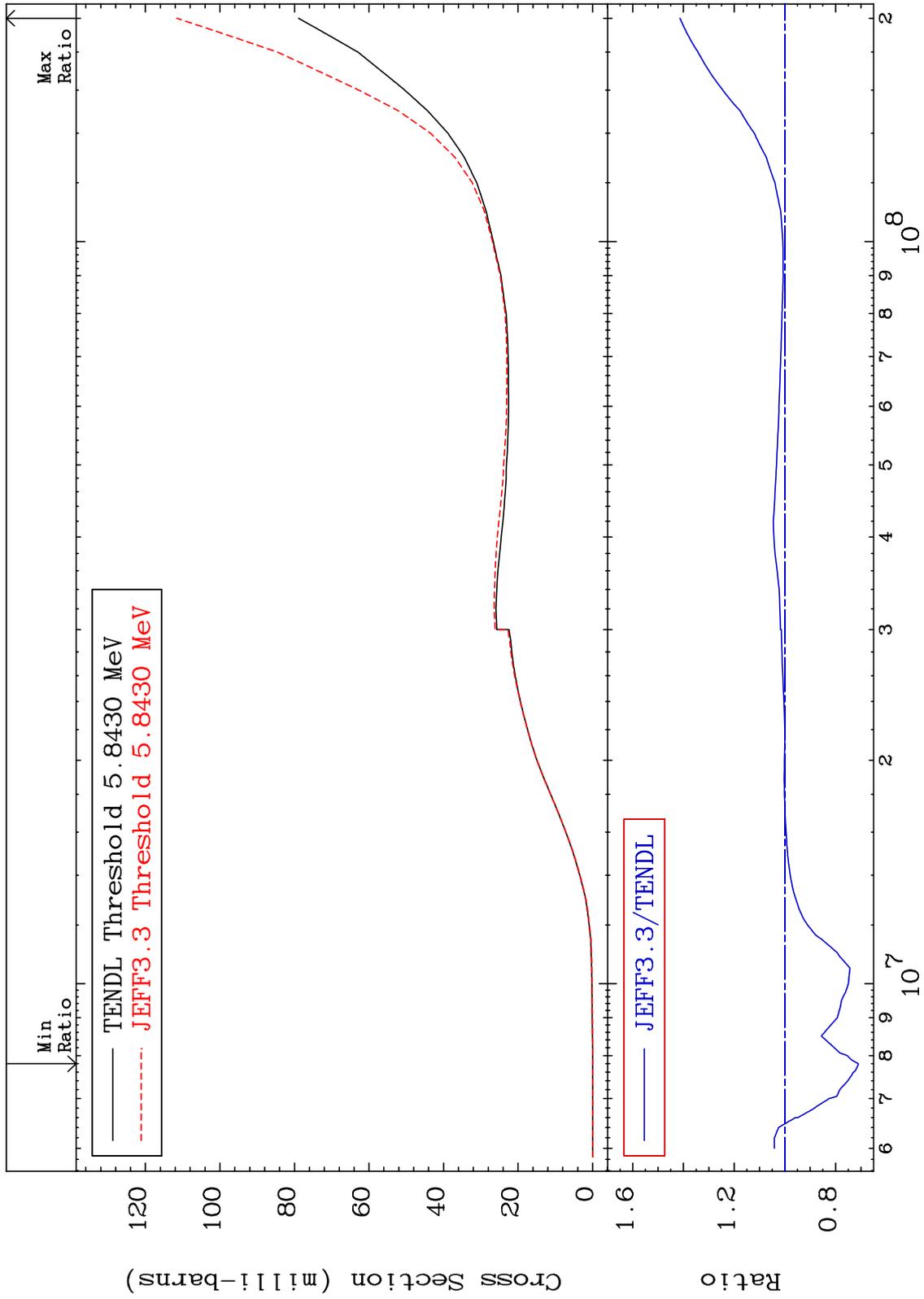
Incident Energy (eV)

19-K -40

MAT 1928

Tritium Production  
Cross Section

19-K -40  
-29.01 To 41.39 %



62

Incident Energy (eV)

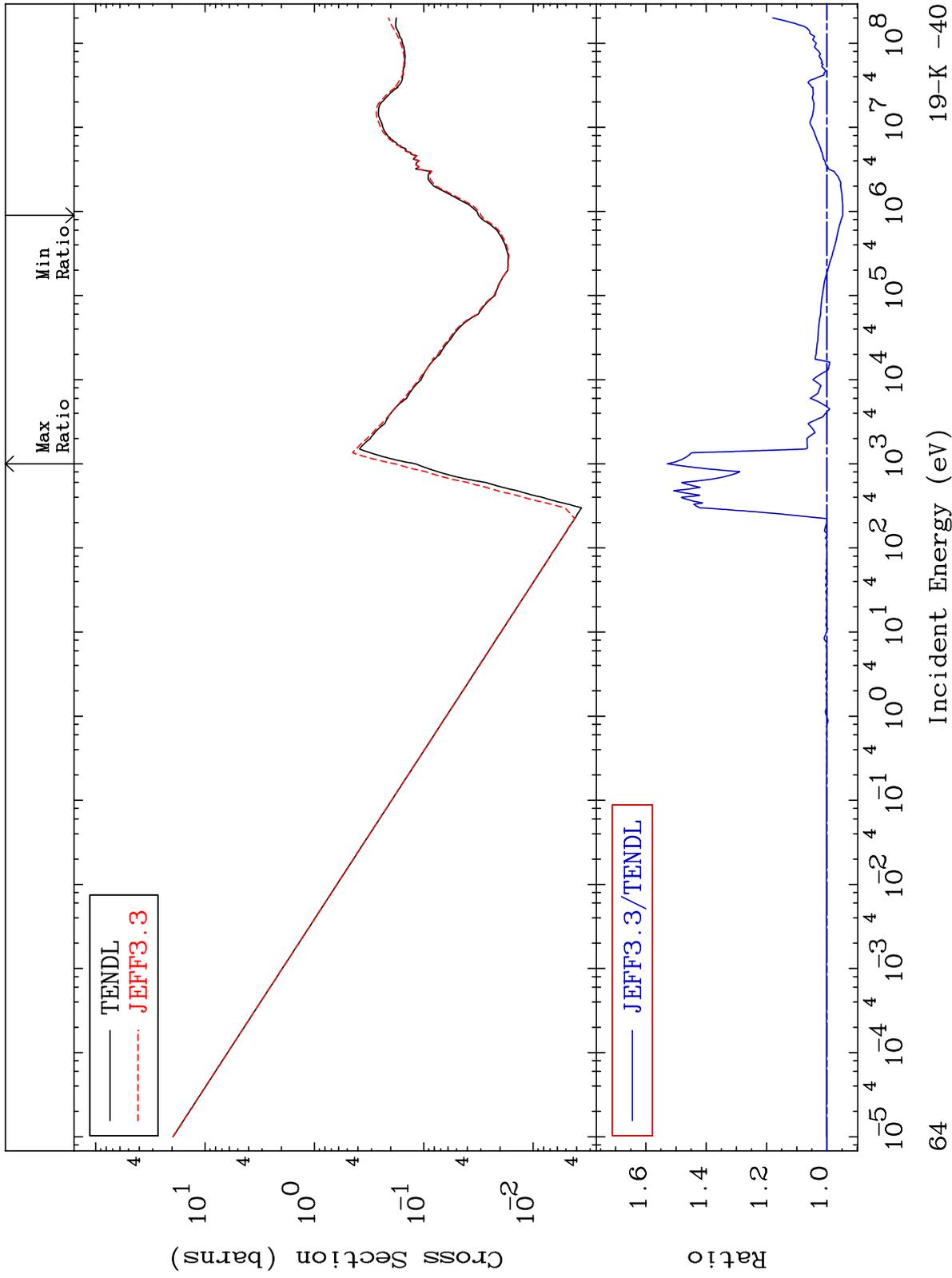
19-K -40



MAT 1928

He-4 Production  
Cross Section

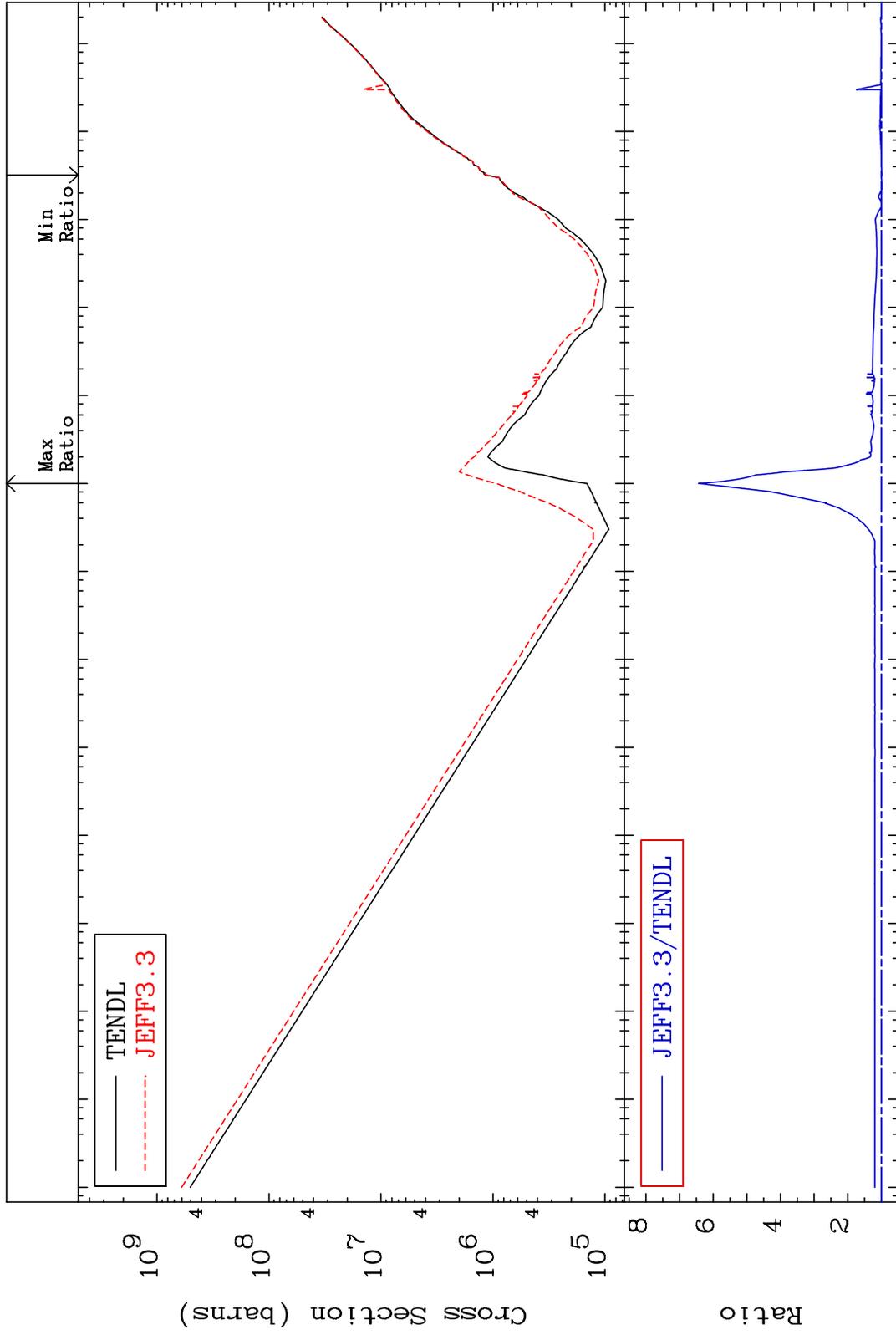
19-K -40  
-5.241 To 52.87 %



MAT 1928

Kerma total (eV-barns)  
Cross Section

19-K -40  
-2.146 To 543.2 %



65

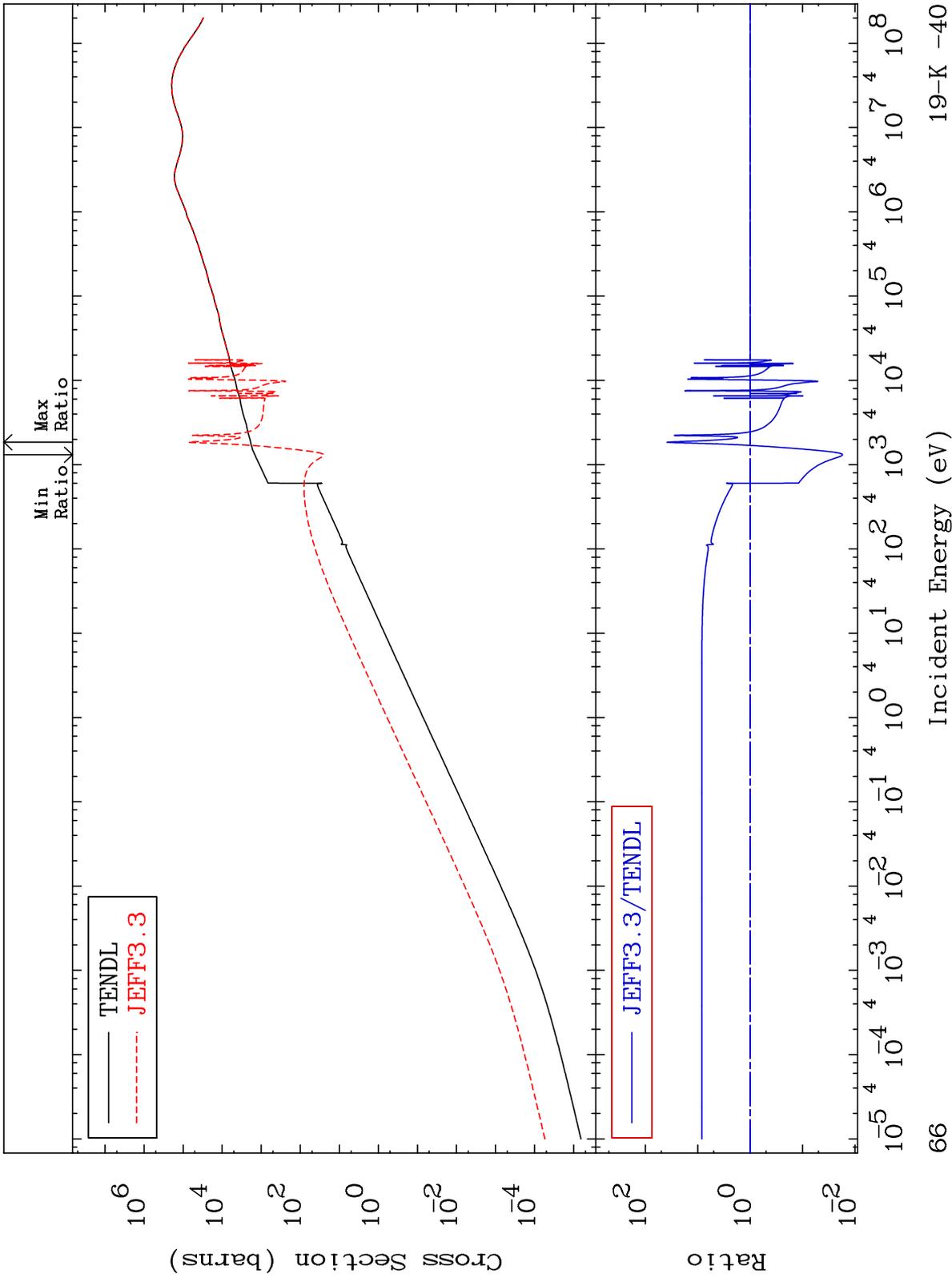
Incident Energy (eV)

19-K -40

MAT 1928

Kerma elastic  
Cross Section

19-K -40  
-98.27 To 3788. %



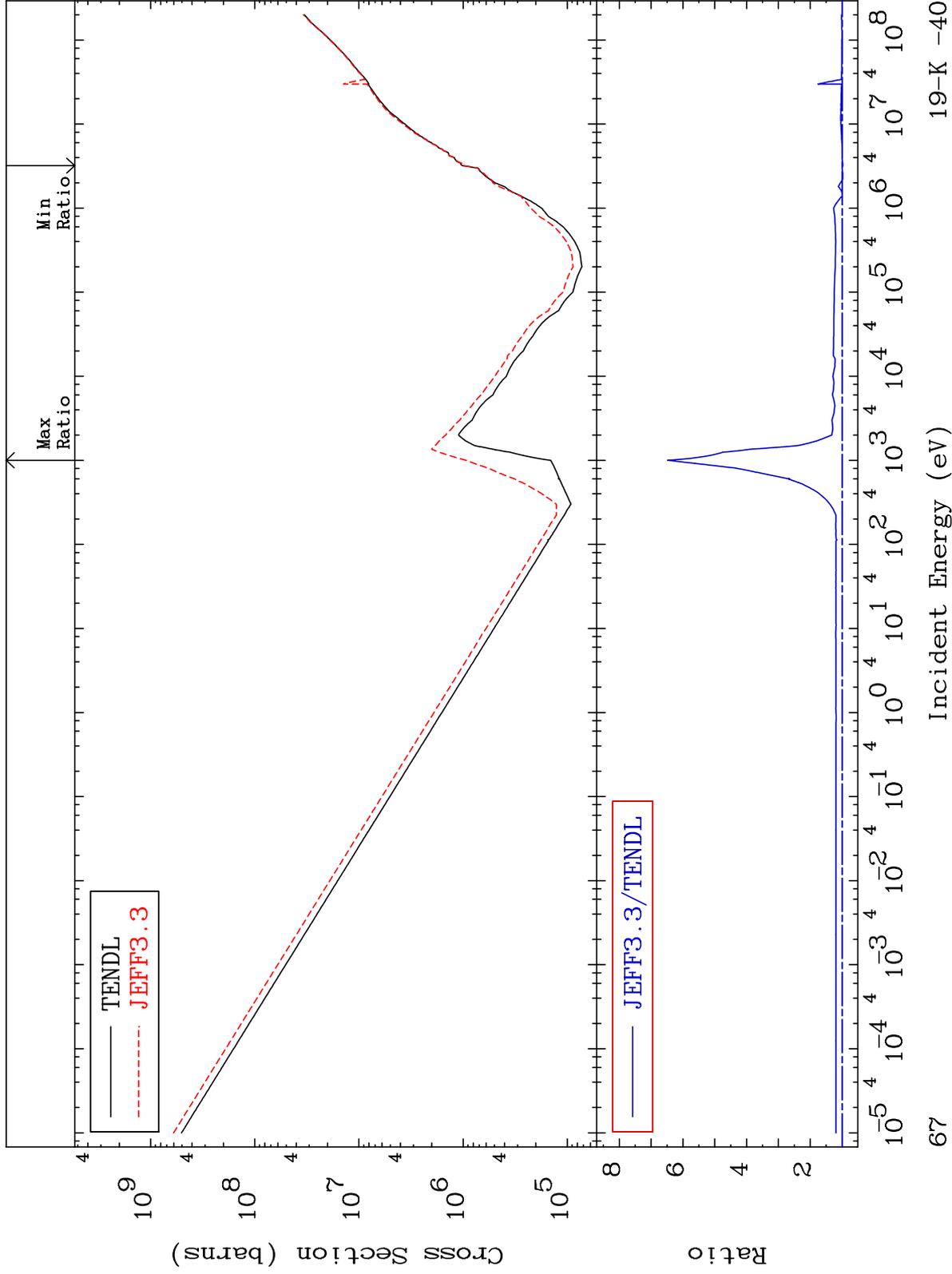
66

19-K -40

MAT 1928

Kerma non-elastic (all but mt2)  
Cross Section

19-K -40  
-2.481 To 548.1 %



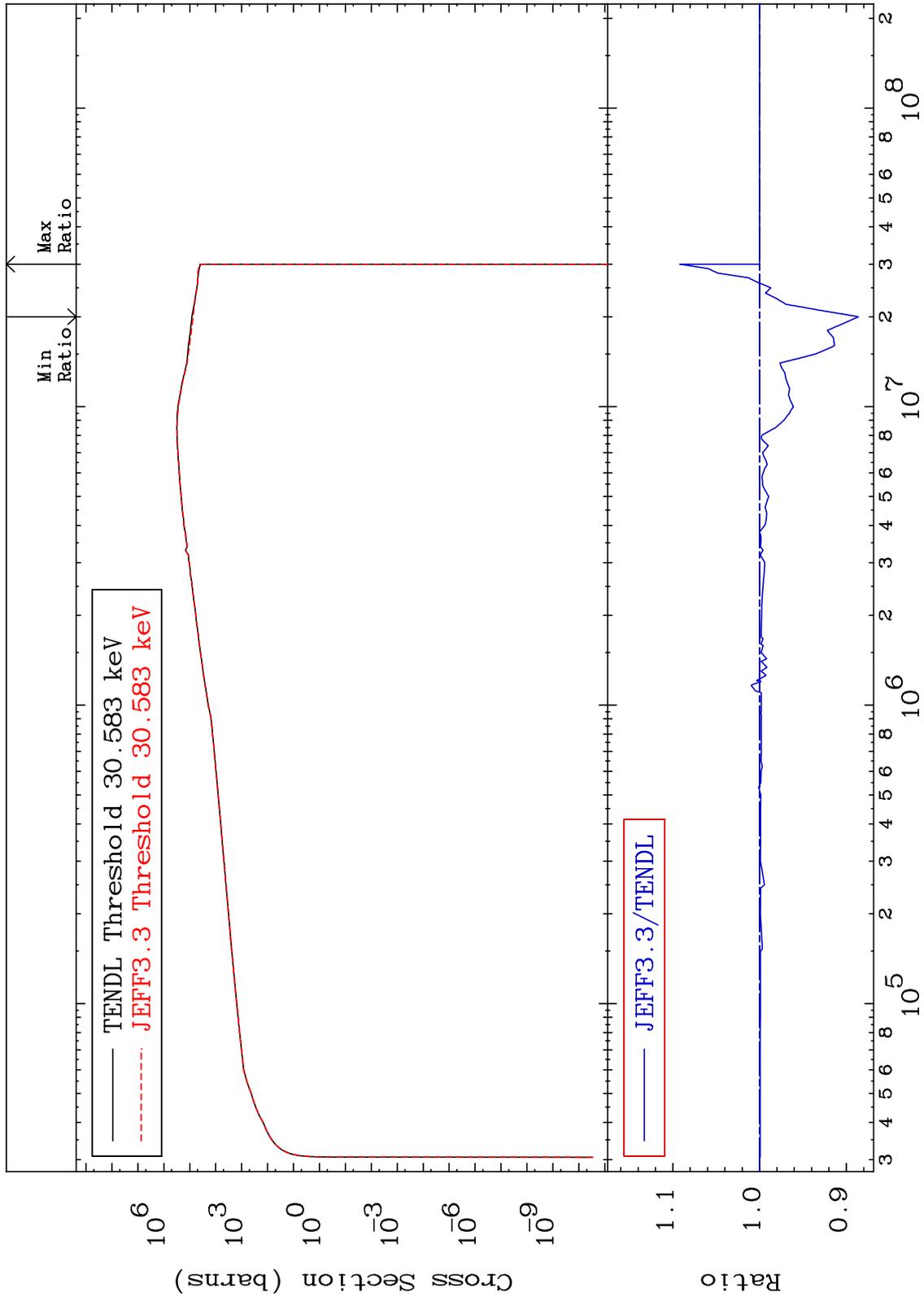
67

19-K -40

MAT 1928

Kerma inelastic (mt51-91)  
Cross Section

19-K -40  
-11.39 To 9.180 %



68

Incident Energy (eV)

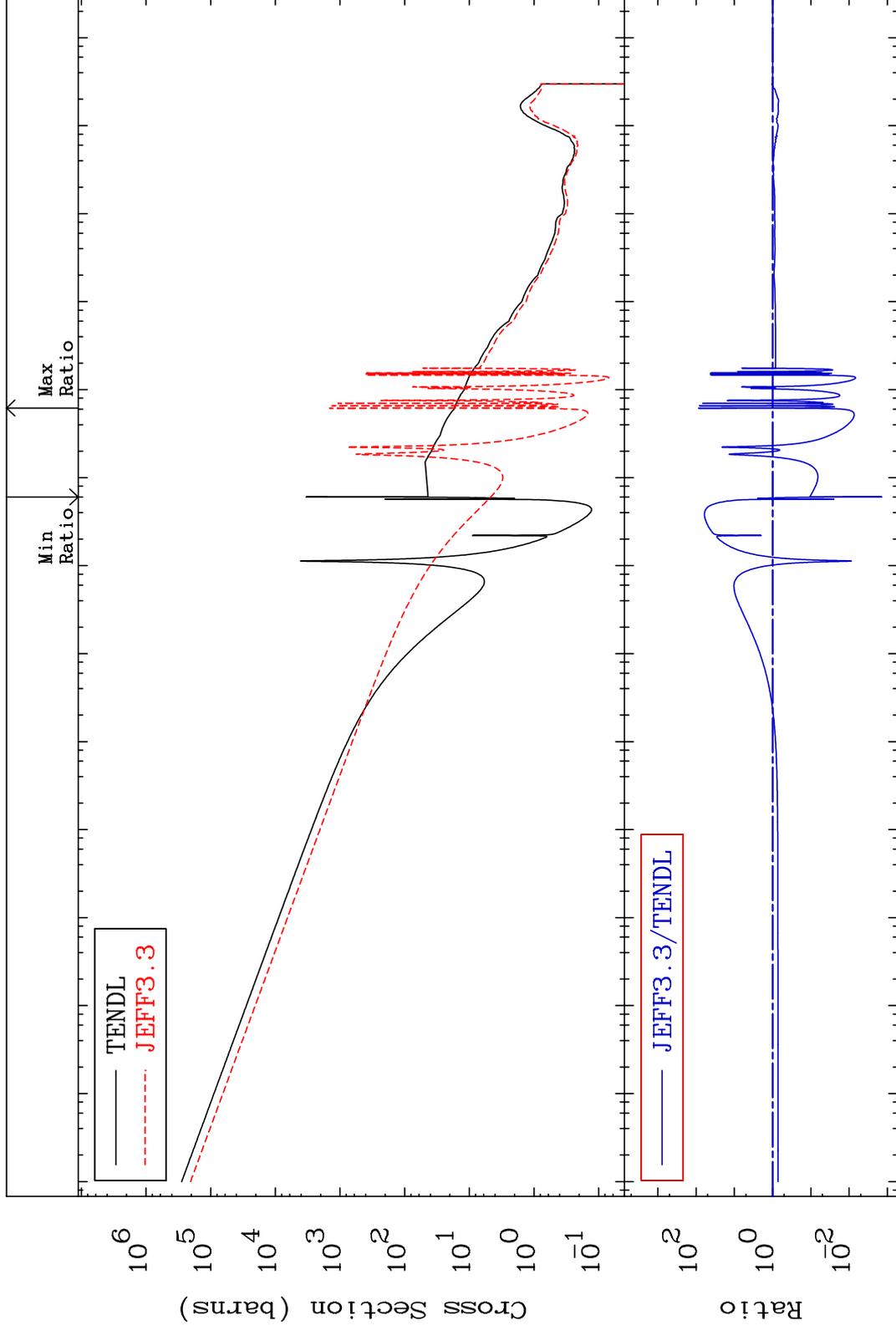
19-K -40



MAT 1928

Kerma capture (mt102)  
Cross Section

19-K -40  
-99.86 To 8464. %



70

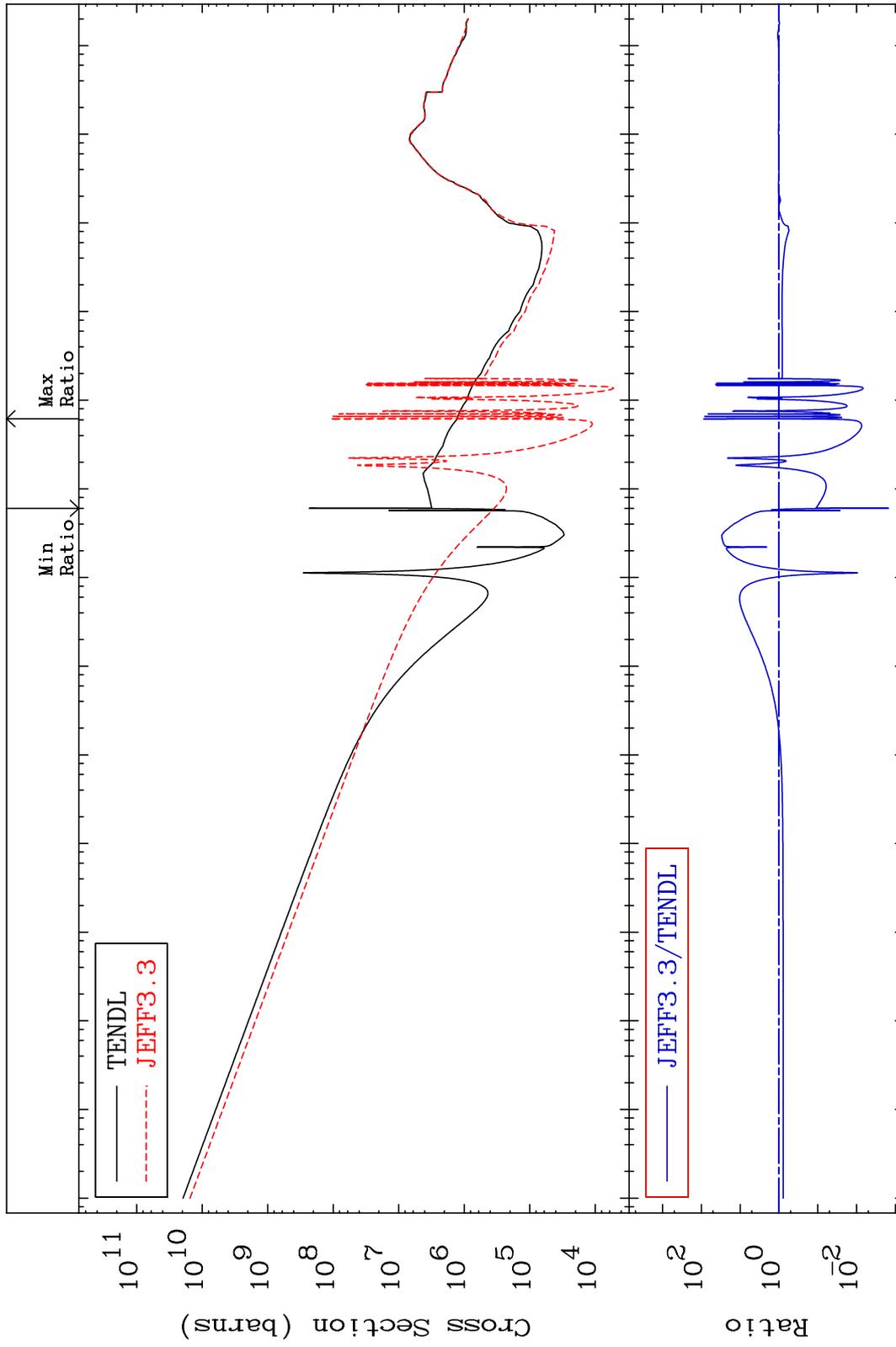
Incident Energy (eV)

19-K -40

MAT 1928

Total photon (eV-barns)  
Cross Section

19-K -40  
-99.85 To 8461. %



71

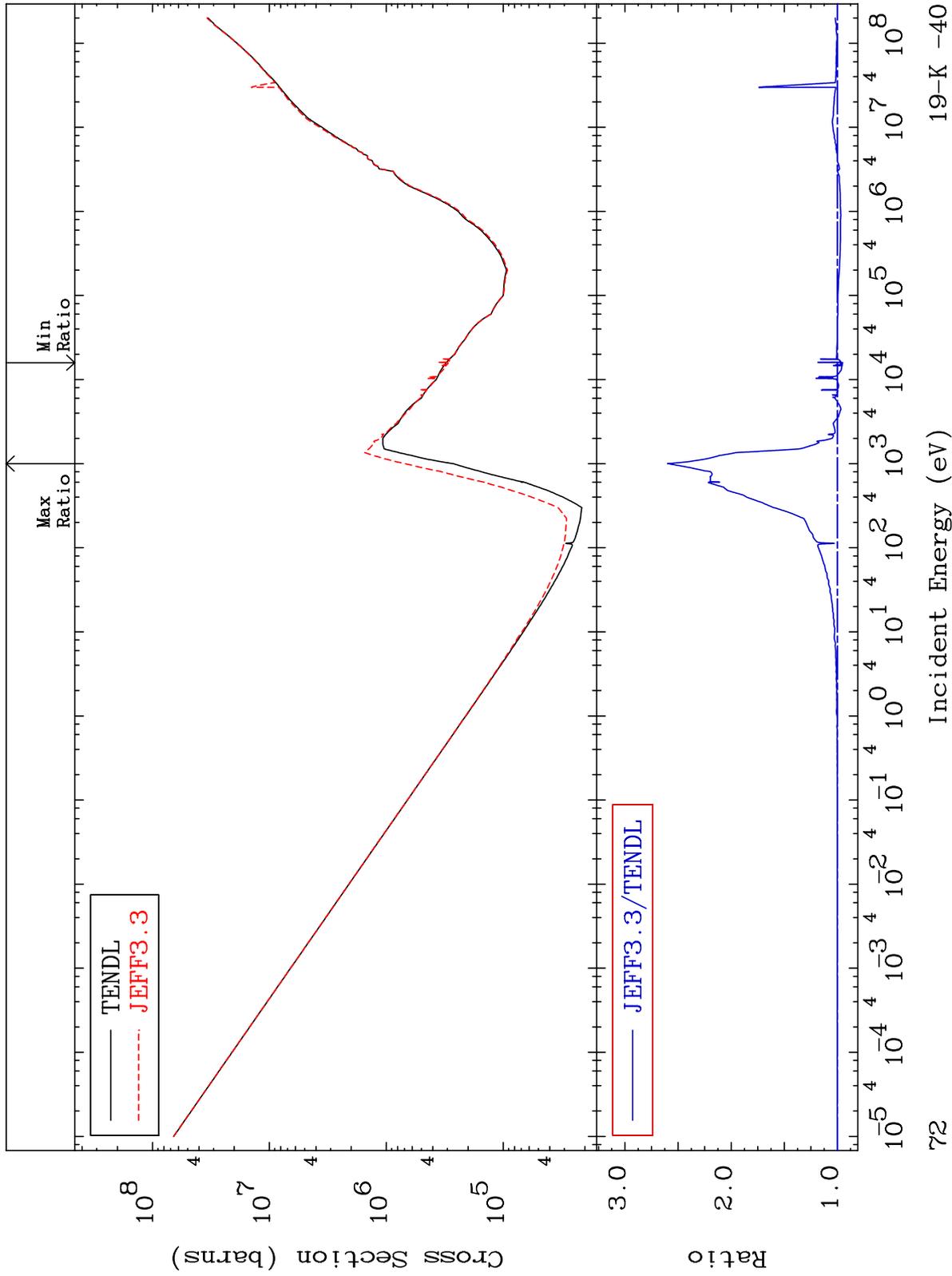
Incident Energy (eV)

19-K -40

MAT 1928

Total kinematic kerma (high limit)  
Cross Section

19-K -40  
-5.186 To 159.9 %



72

19-K -40

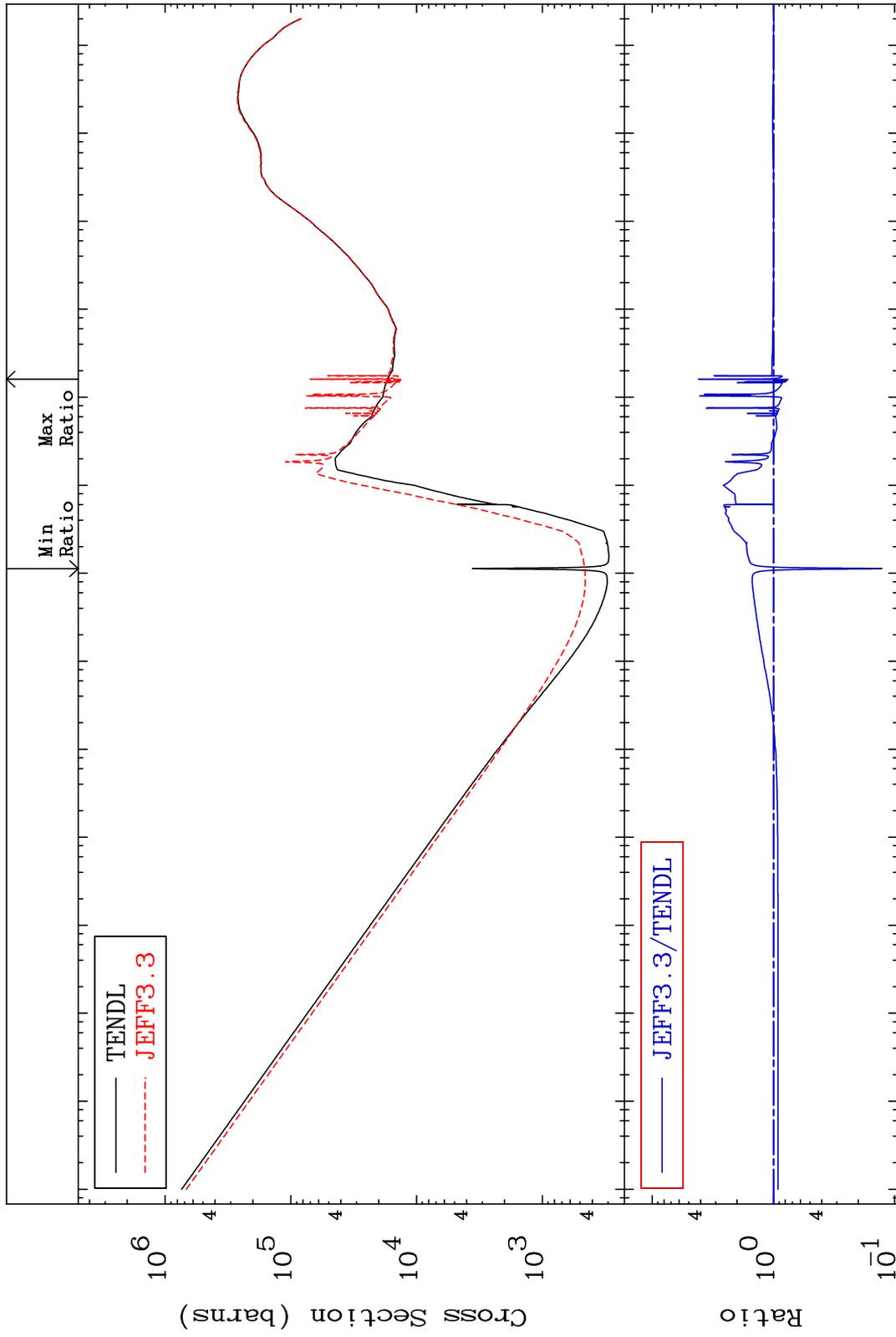
MAT 1928

Dpa total (eV-barns)

19-K -40

Cross Section

-87.30 To 314.2 %



— TENDL  
- - - JEFF3.3

— JEFF3.3/TENDL

73

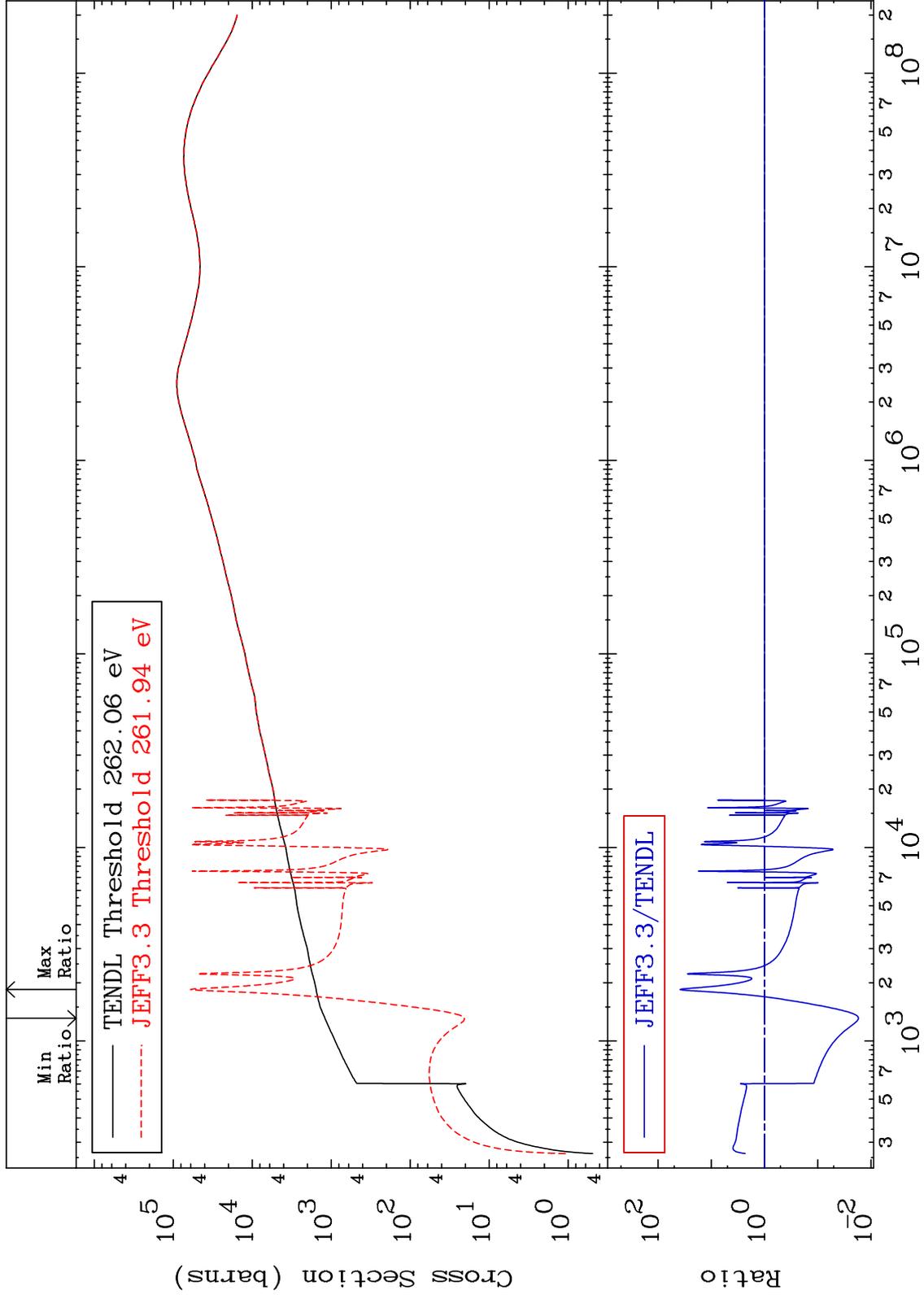
Incident Energy (eV)

19-K -40

MAT 1928

Dpa elastic (mt2)  
Cross Section

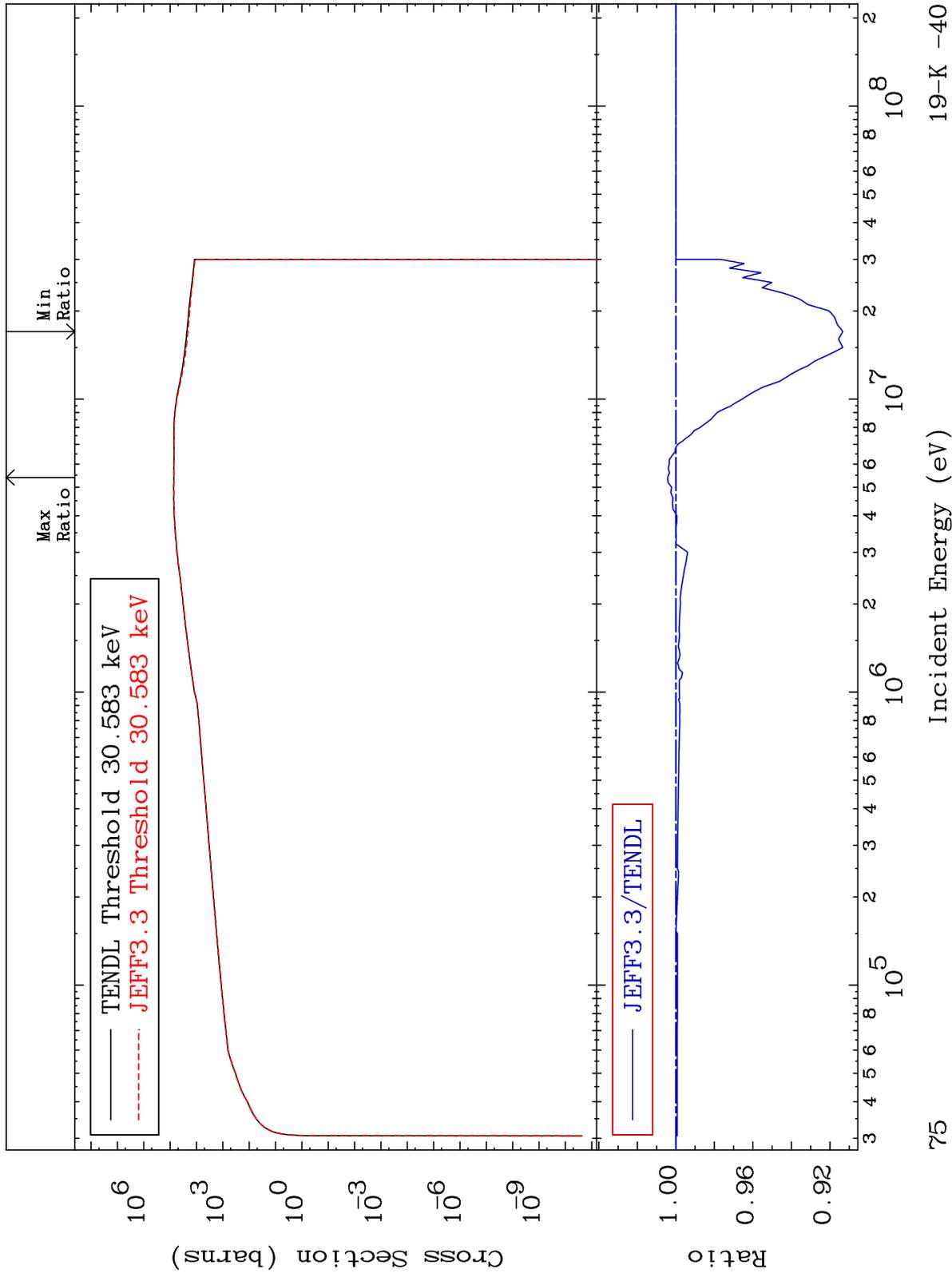
19-K -40  
-98.28 To 3787. %



MAT 1928

Dpa inelastic (mt51-91)  
Cross Section

19-K -40  
-8.674 To 0.425 %



75

19-K -40

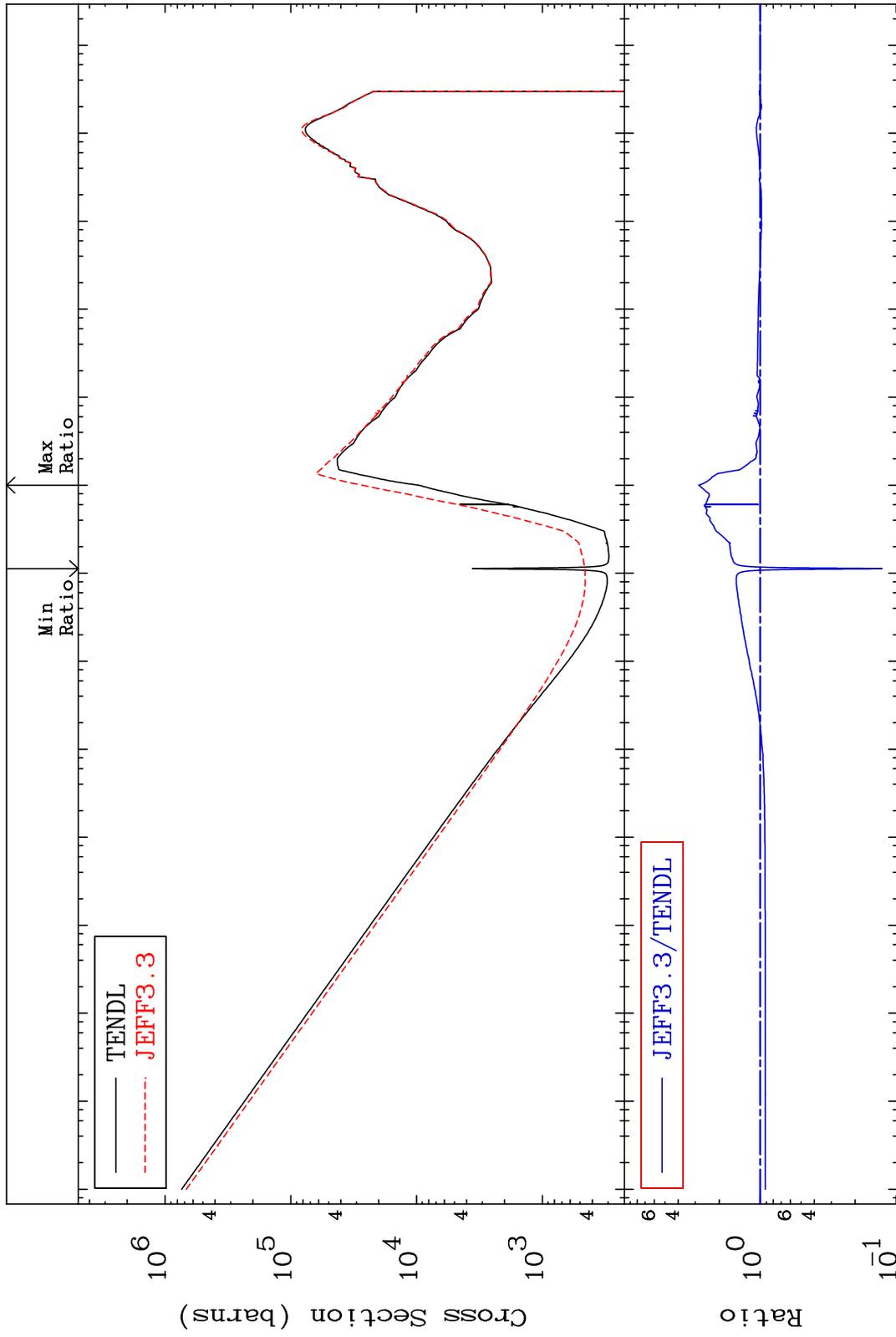
MAT 1928

Dpa disappearance (mt102 -120)

19-K -40

-87.30 To 182.8 %

Cross Section



76

Incident Energy (eV)

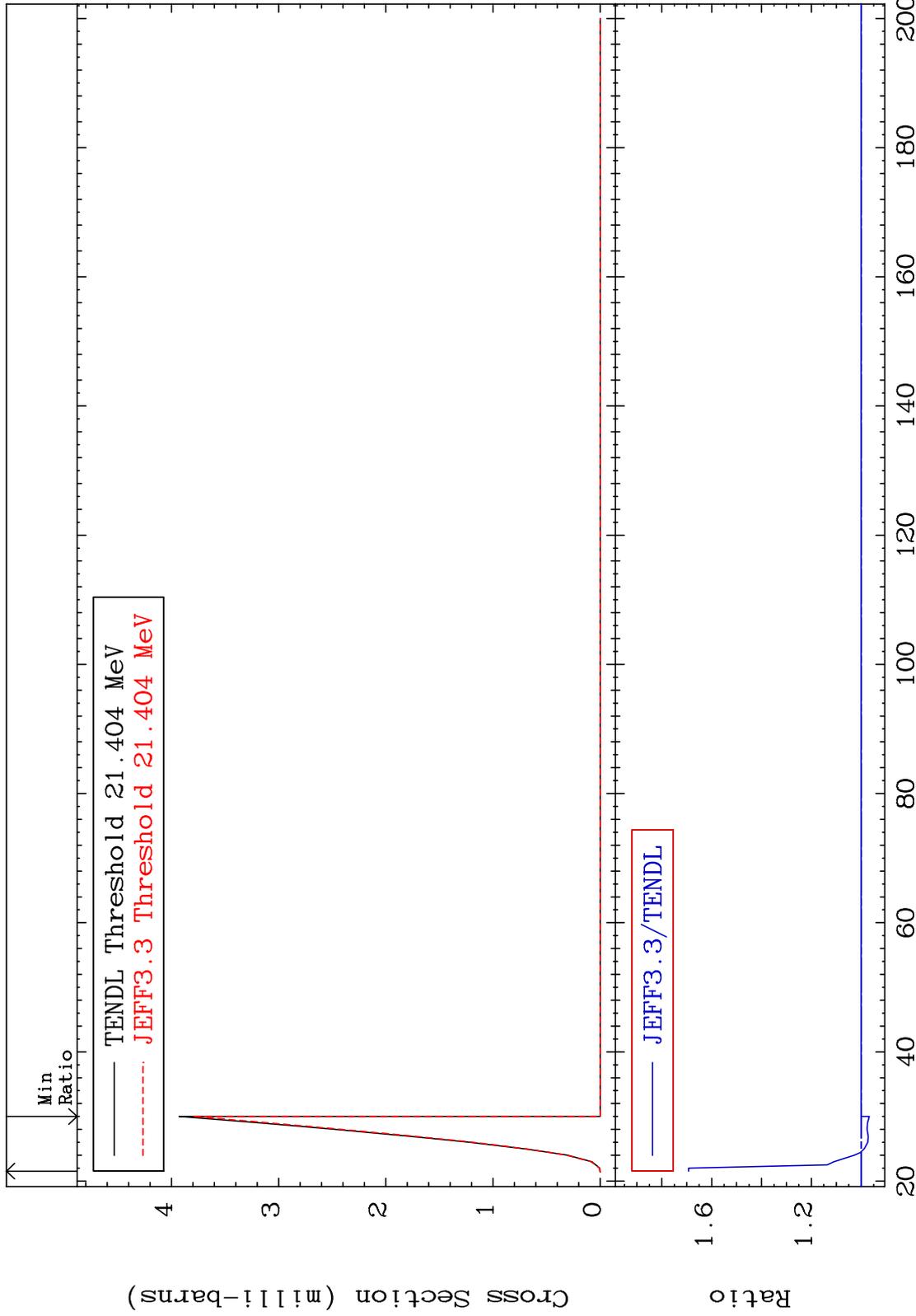
19-K -40

MAT 1928

(n,3n):19-K -38g

19-K -40

Radionuclide Production Cross Section -3.263 To 69.26 %



77

Incident Energy (MeV)

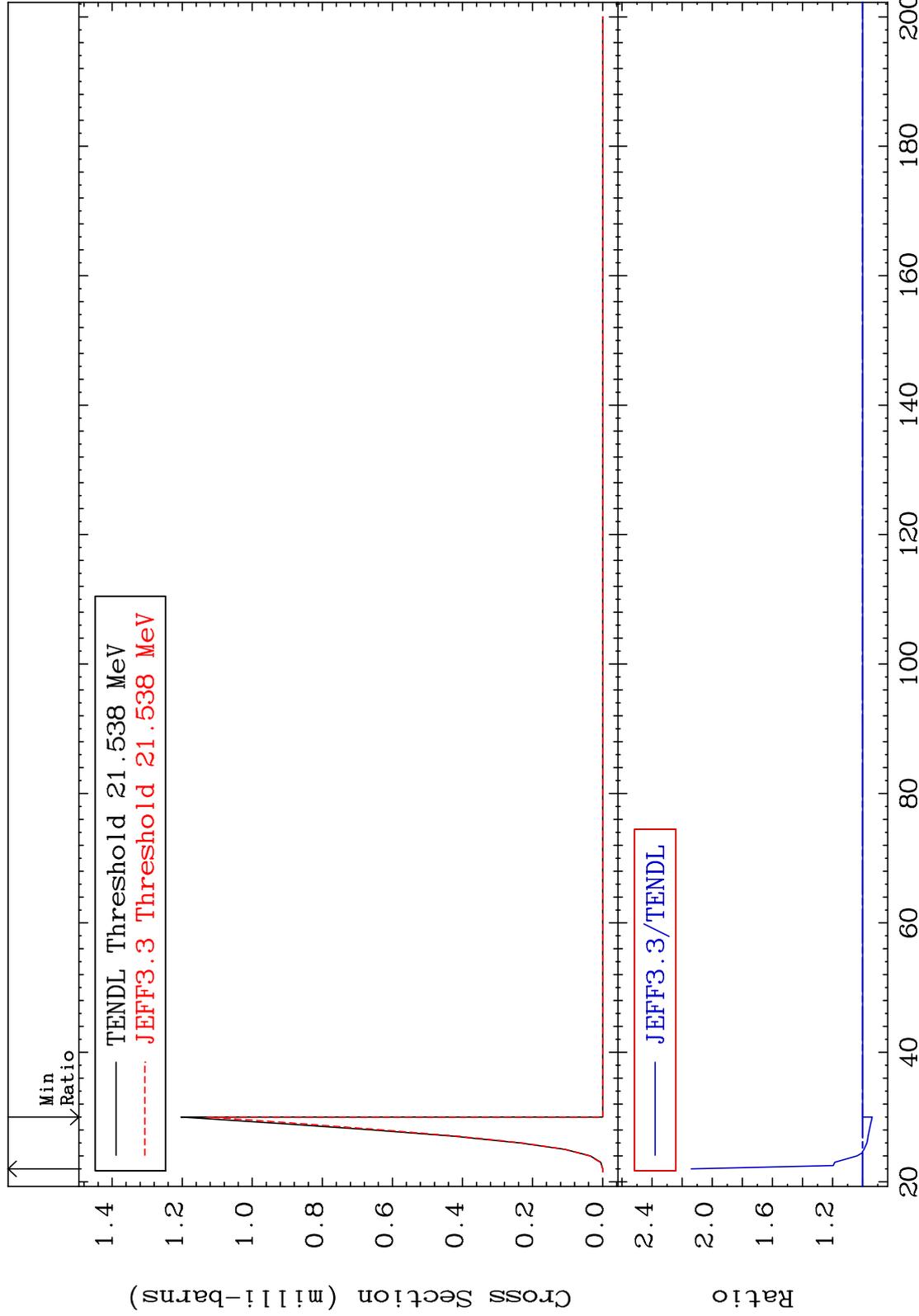
19-K -40

MAT 1928

(n,3n):19-K -38m1

19-K -40

Radionuclide Production Cross Section -6.317 To 113.9 %



78

Incident Energy (MeV)

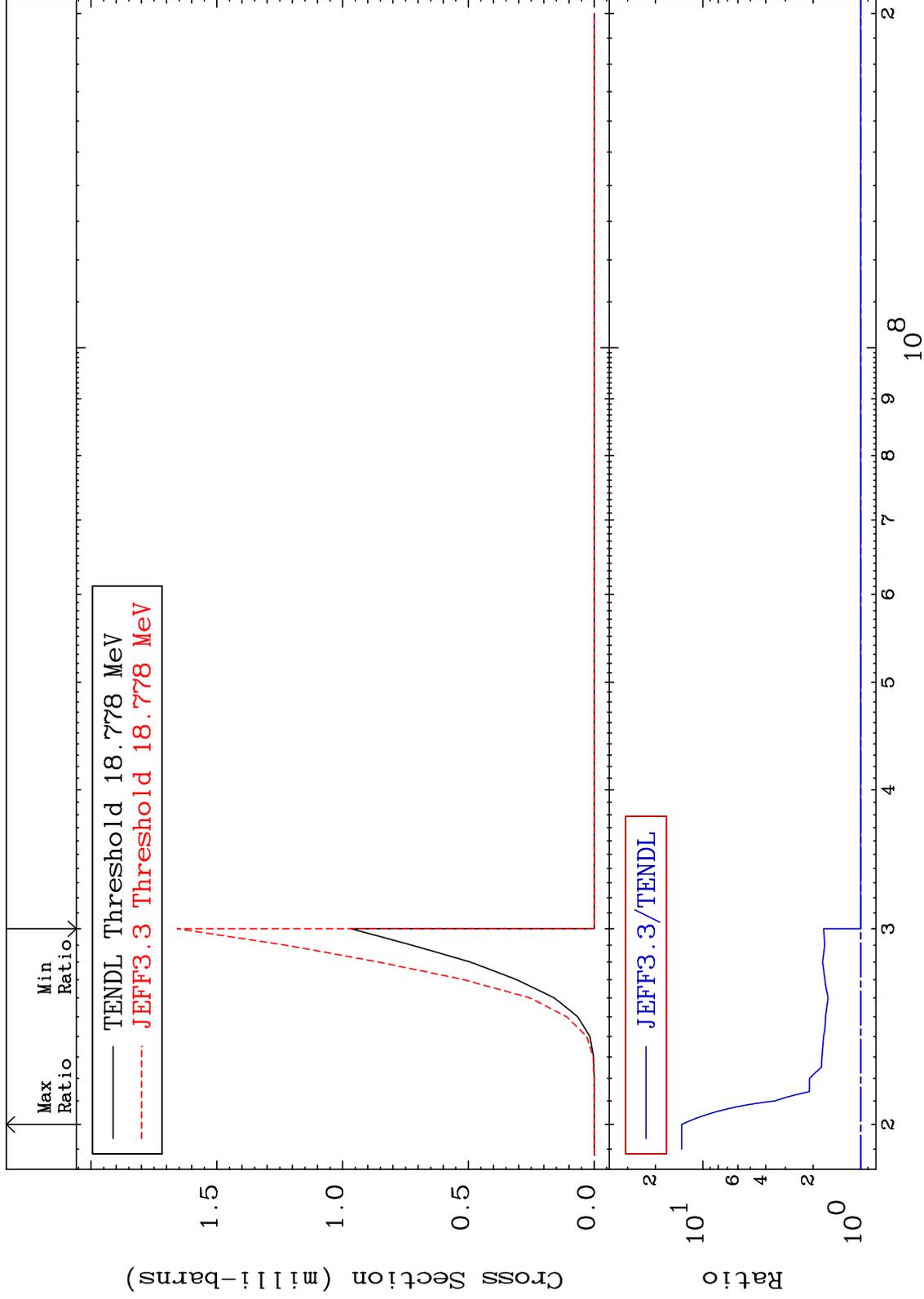
19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section 0.000 To 1262. %

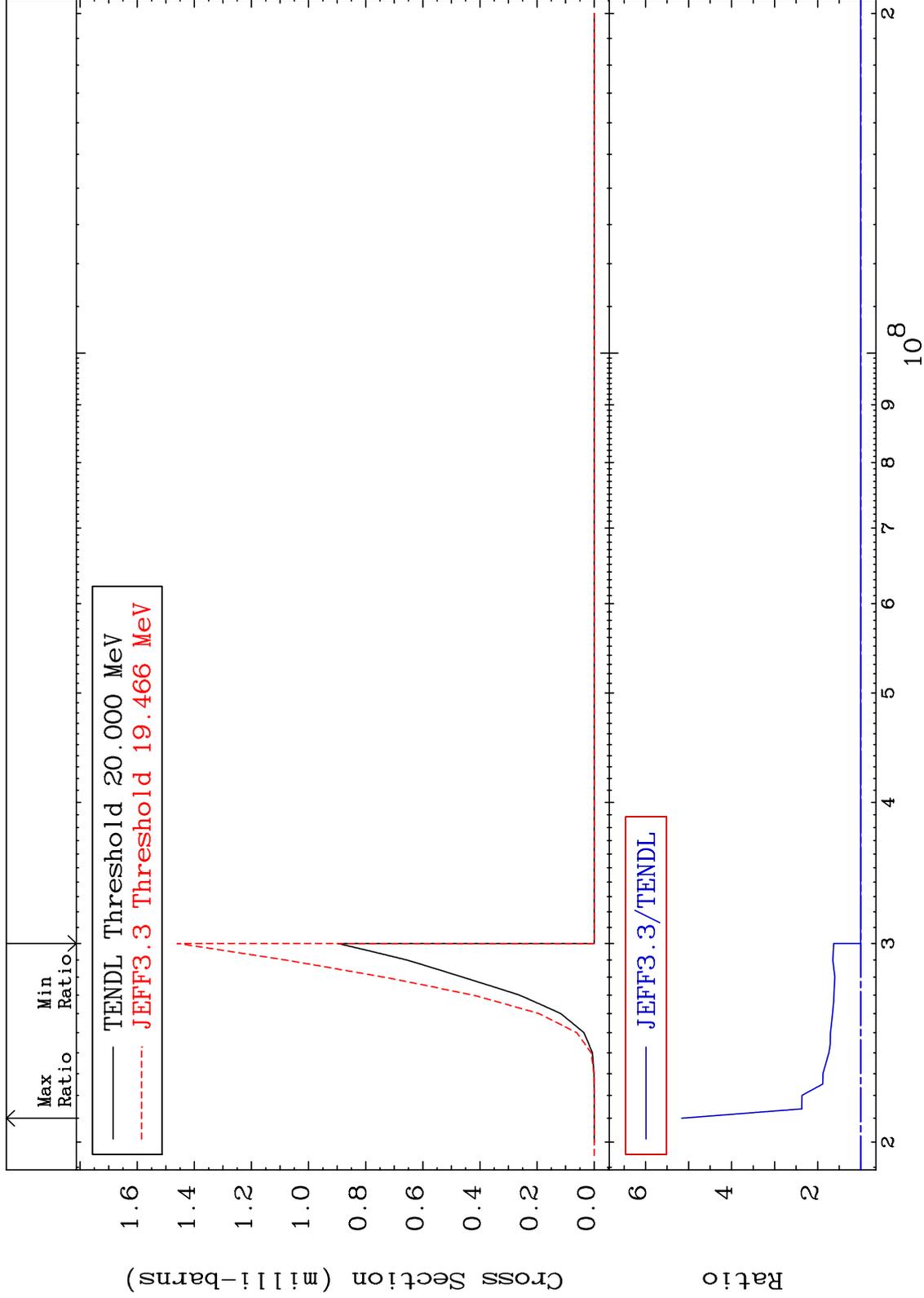


79

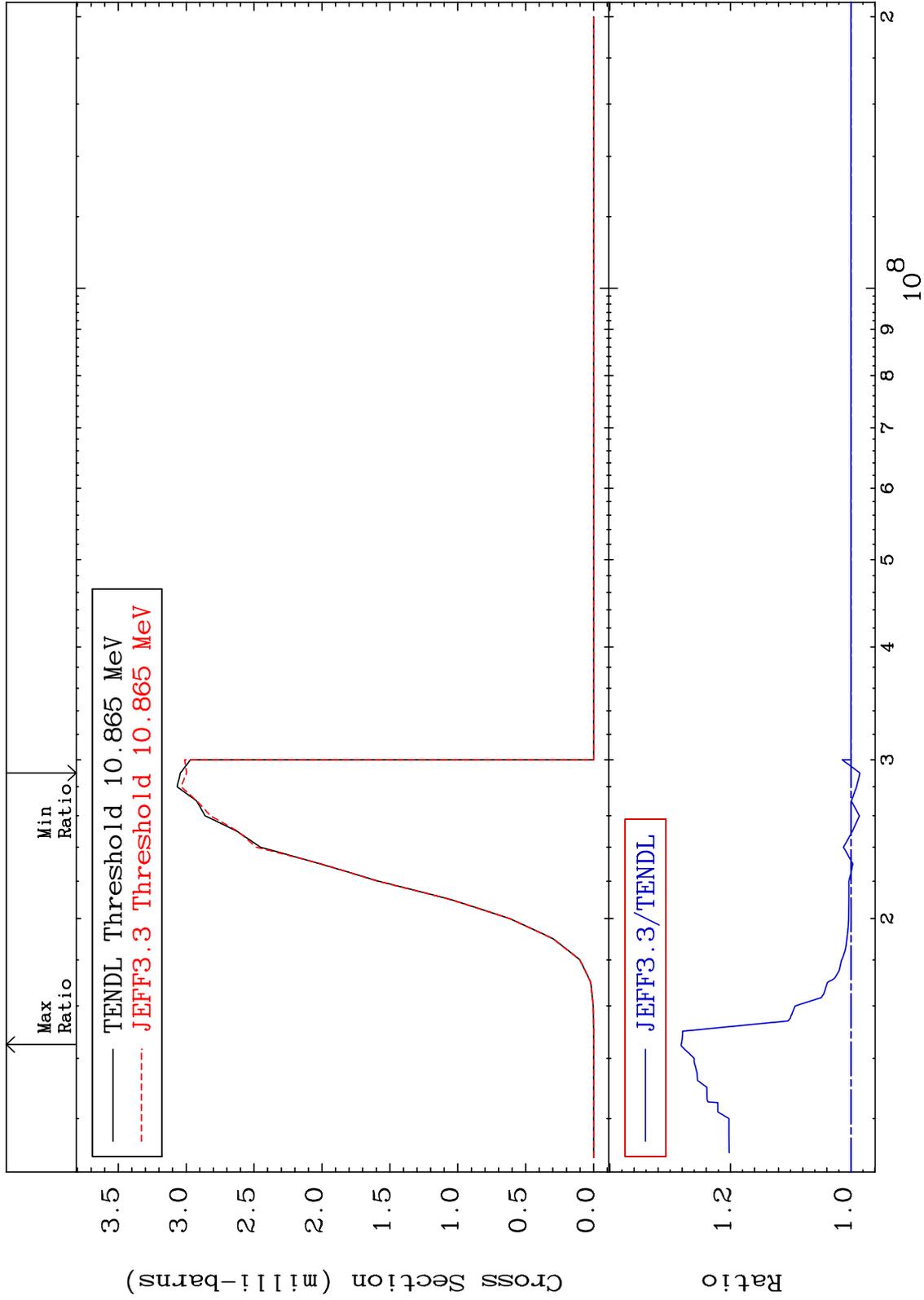
Incident Energy (eV)

19-K -40

Radionuclide Production Cross Section 0.000 To 416.0 %



Radionuclide Production Cross Section -1.490 To 28.18 %

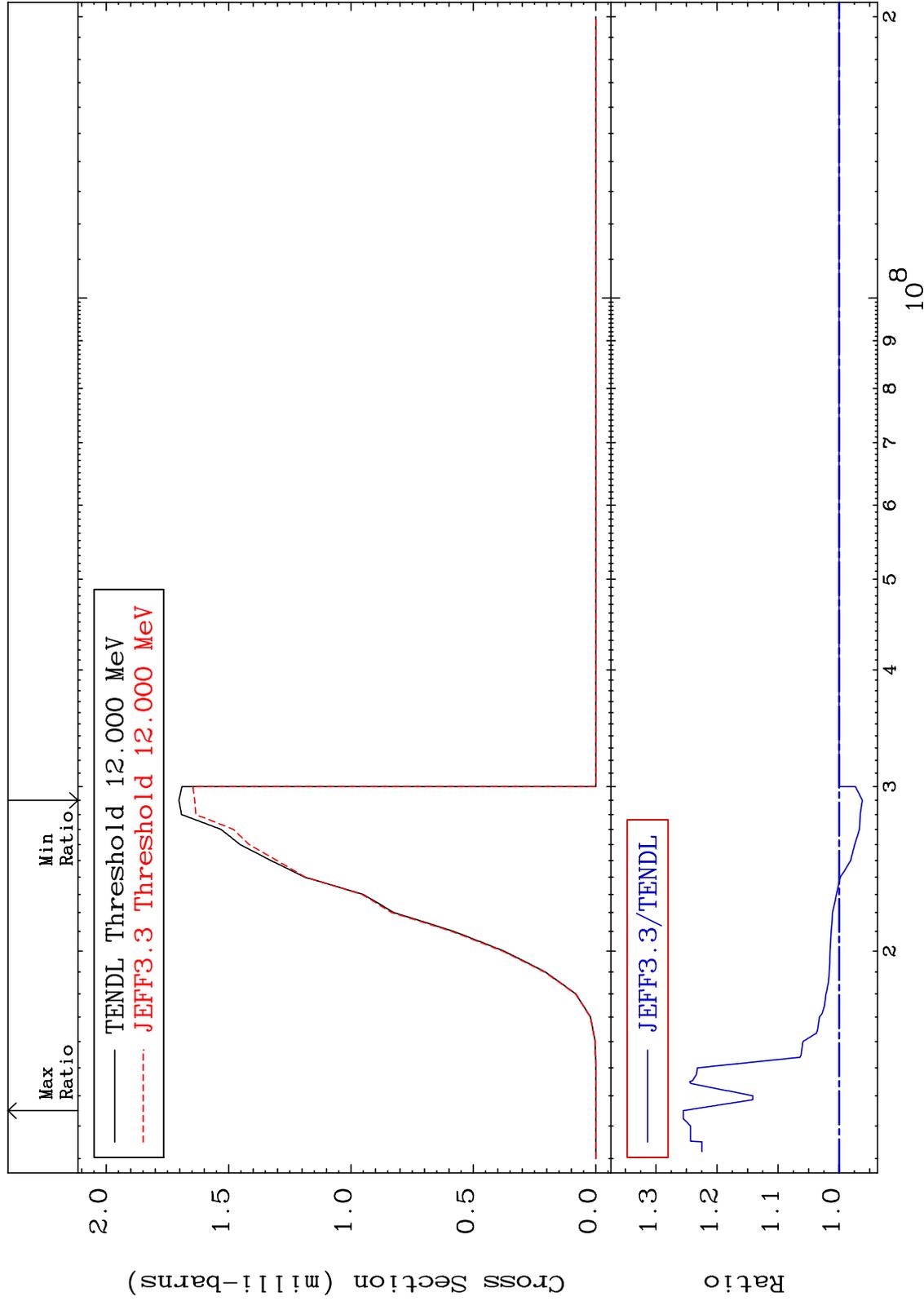


MAT 1928

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

19-K -40

Radionuclide Production Cross Section -3.790 To 25.51 %



82

Incident Energy (eV)

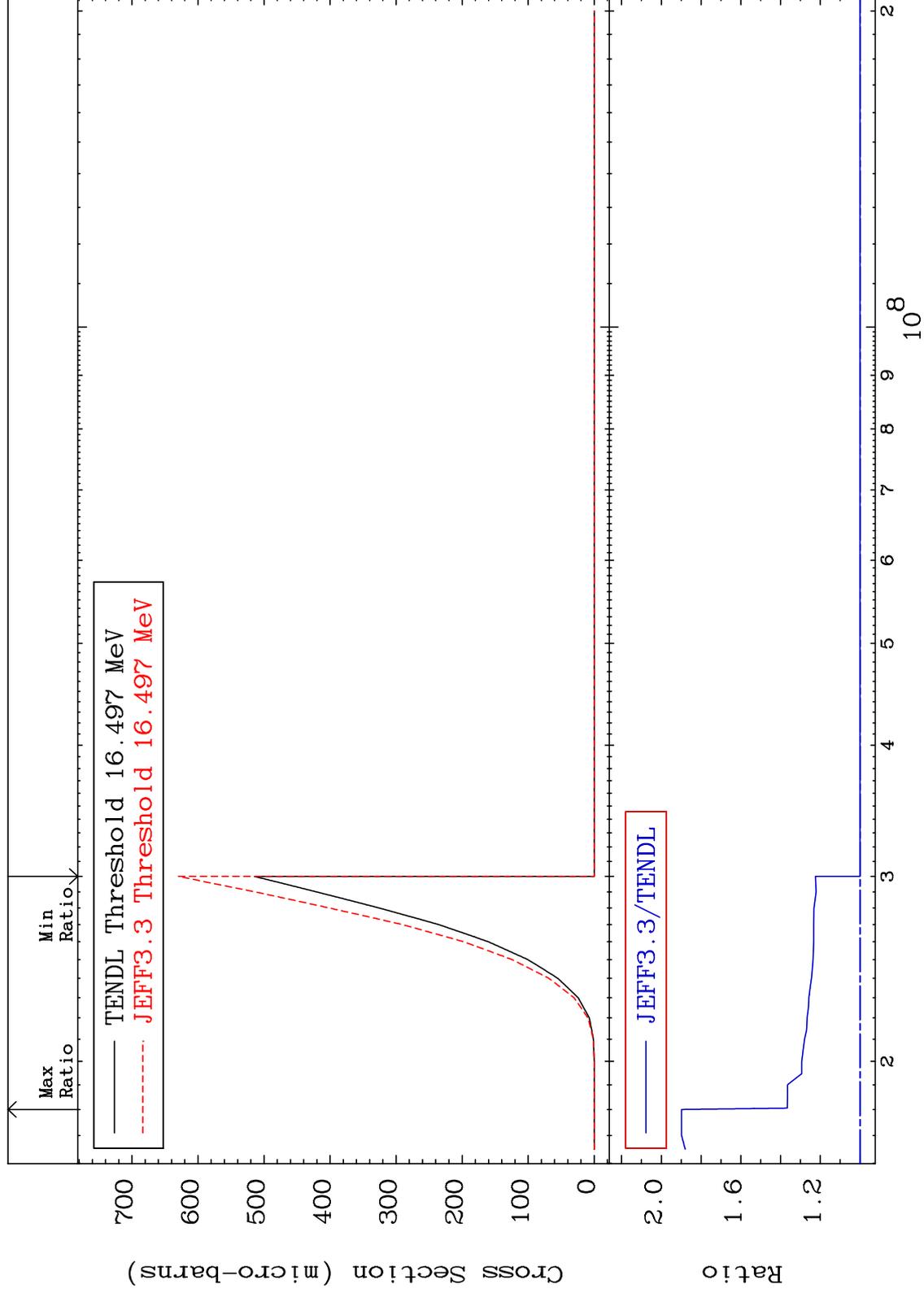
19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section 0.000 To 89.81 %



83

Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section 0.000 To 535.0 %

