

Program Complot
(Version 2018-1)

by

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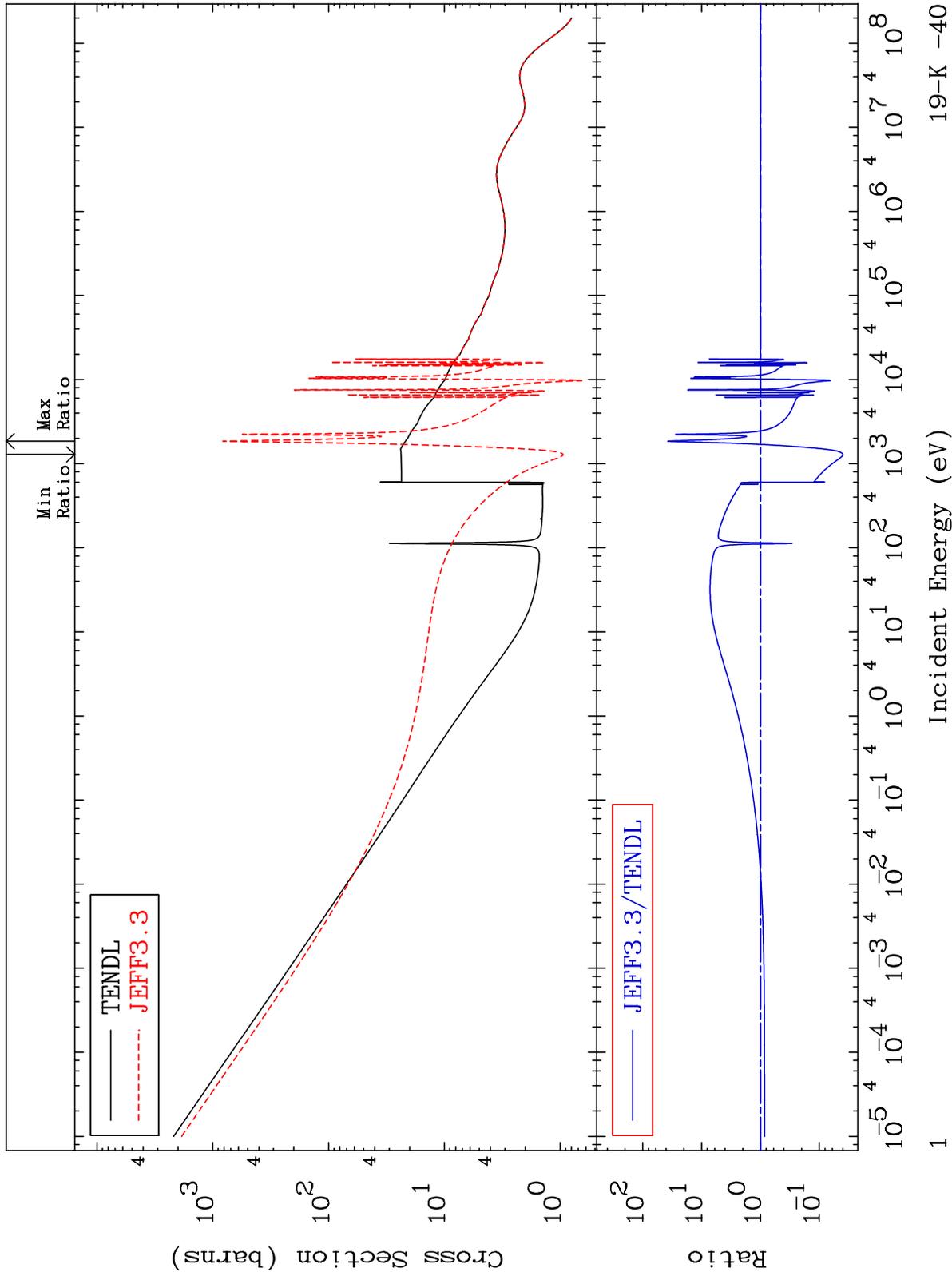
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 1928

Total
Cross Section

19-K -40
-96.02 To 3676. %

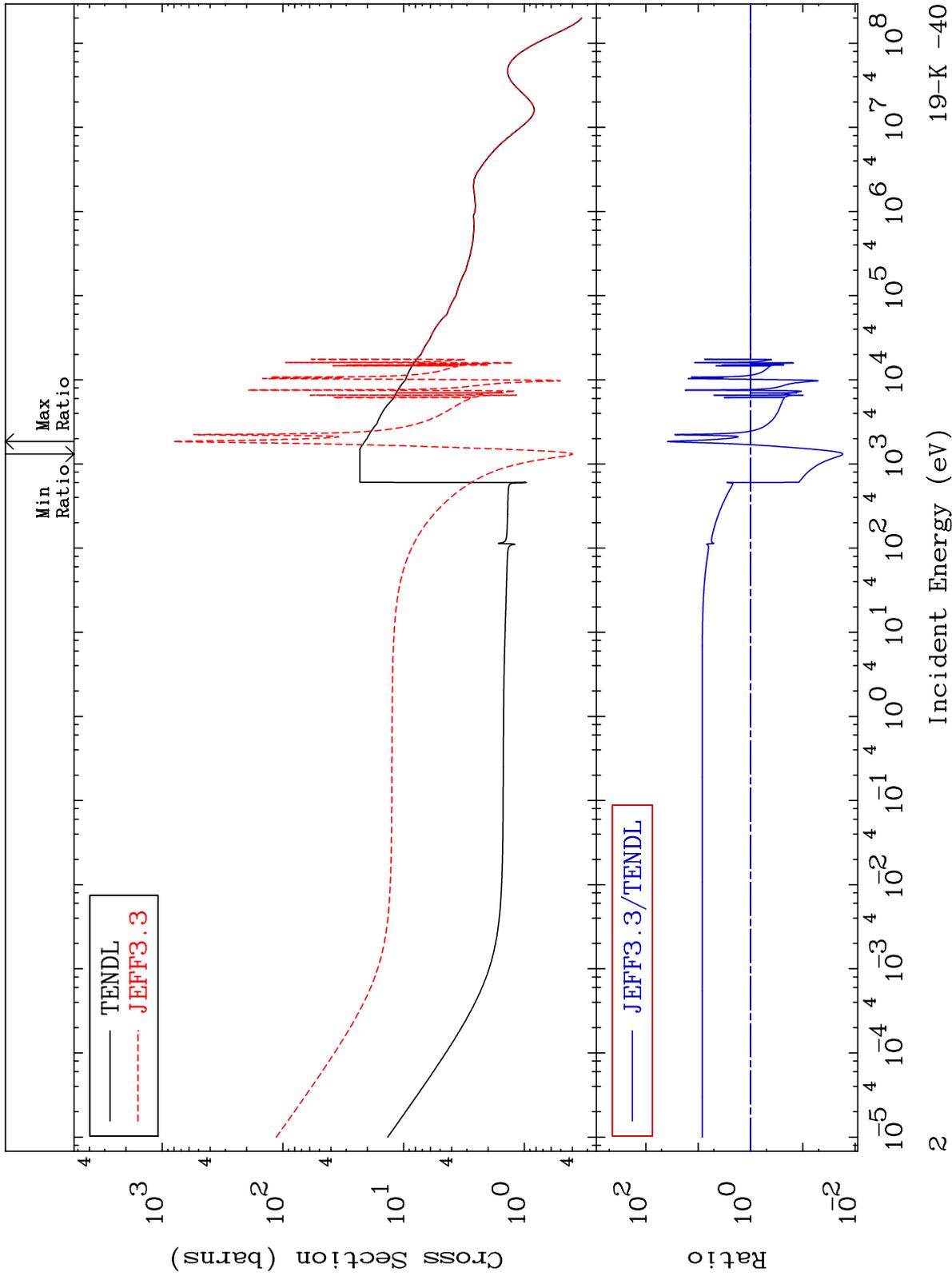


19-K -40

MAT 1928

Elastic
Cross Section

19-K -40
-98.27 To 3775. %



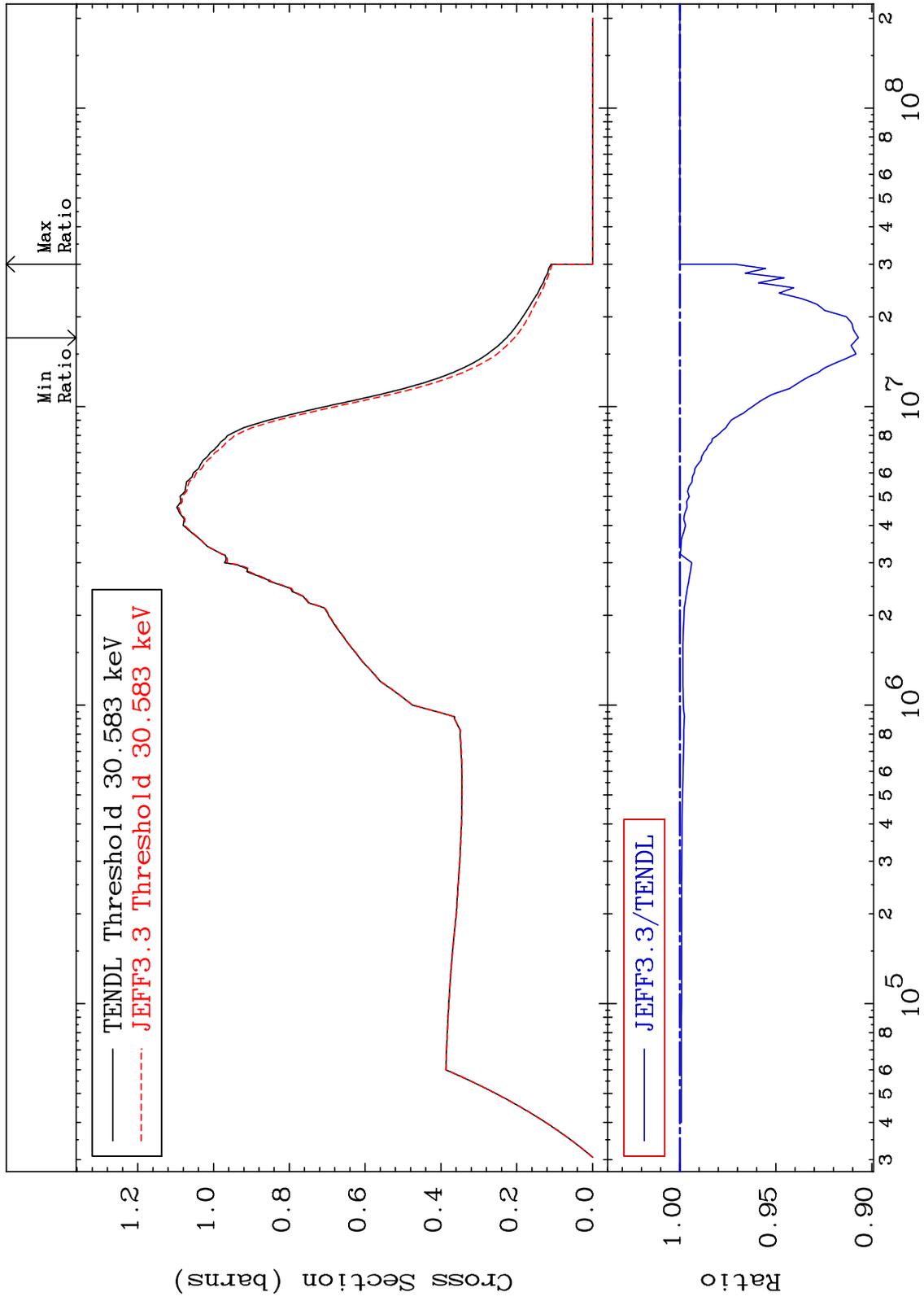
19-K -40

2

MAT 1928

Inelastic
Cross Section

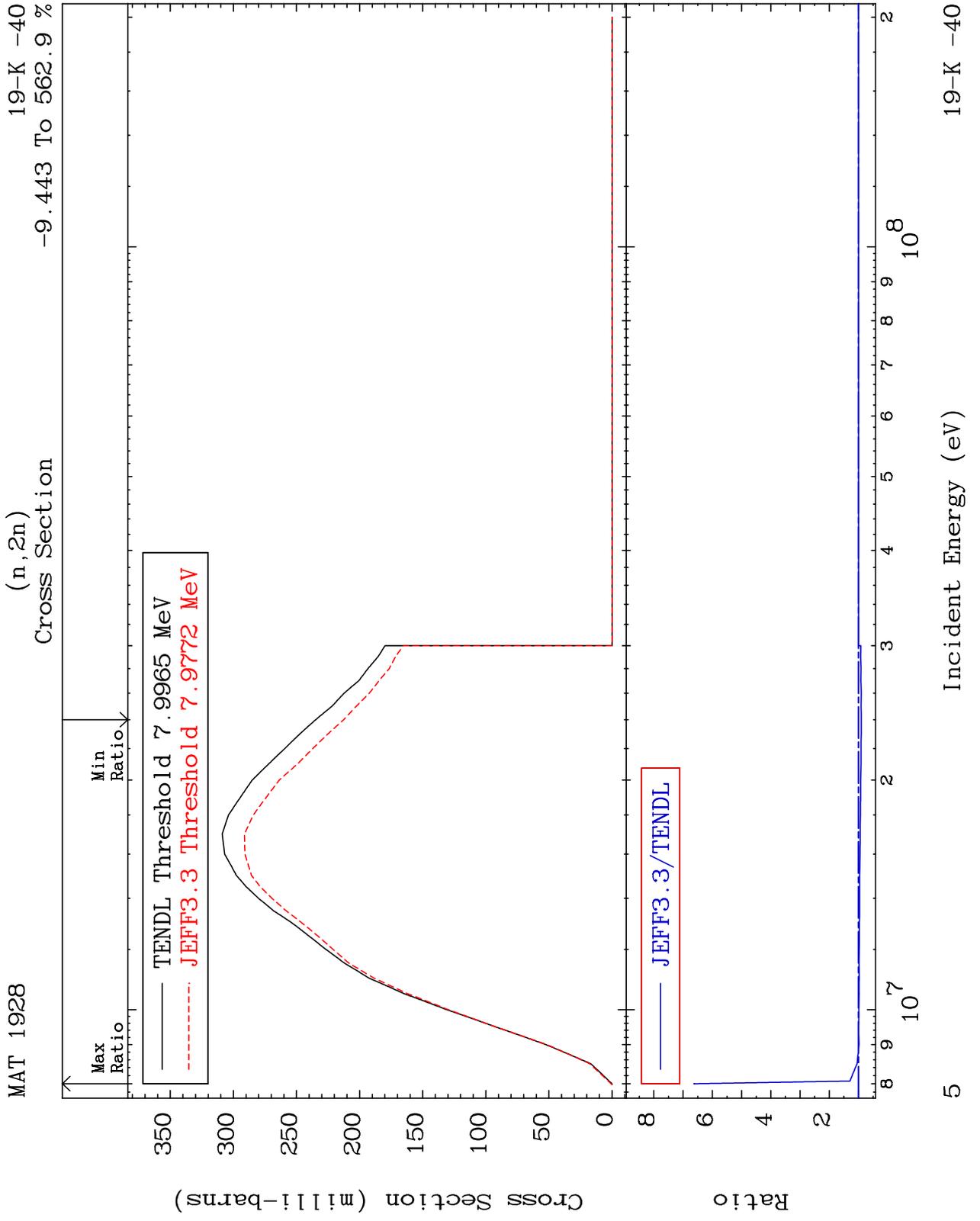
19-K -40
-9.299 To 0.000 %



3

Incident Energy (eV)

19-K -40



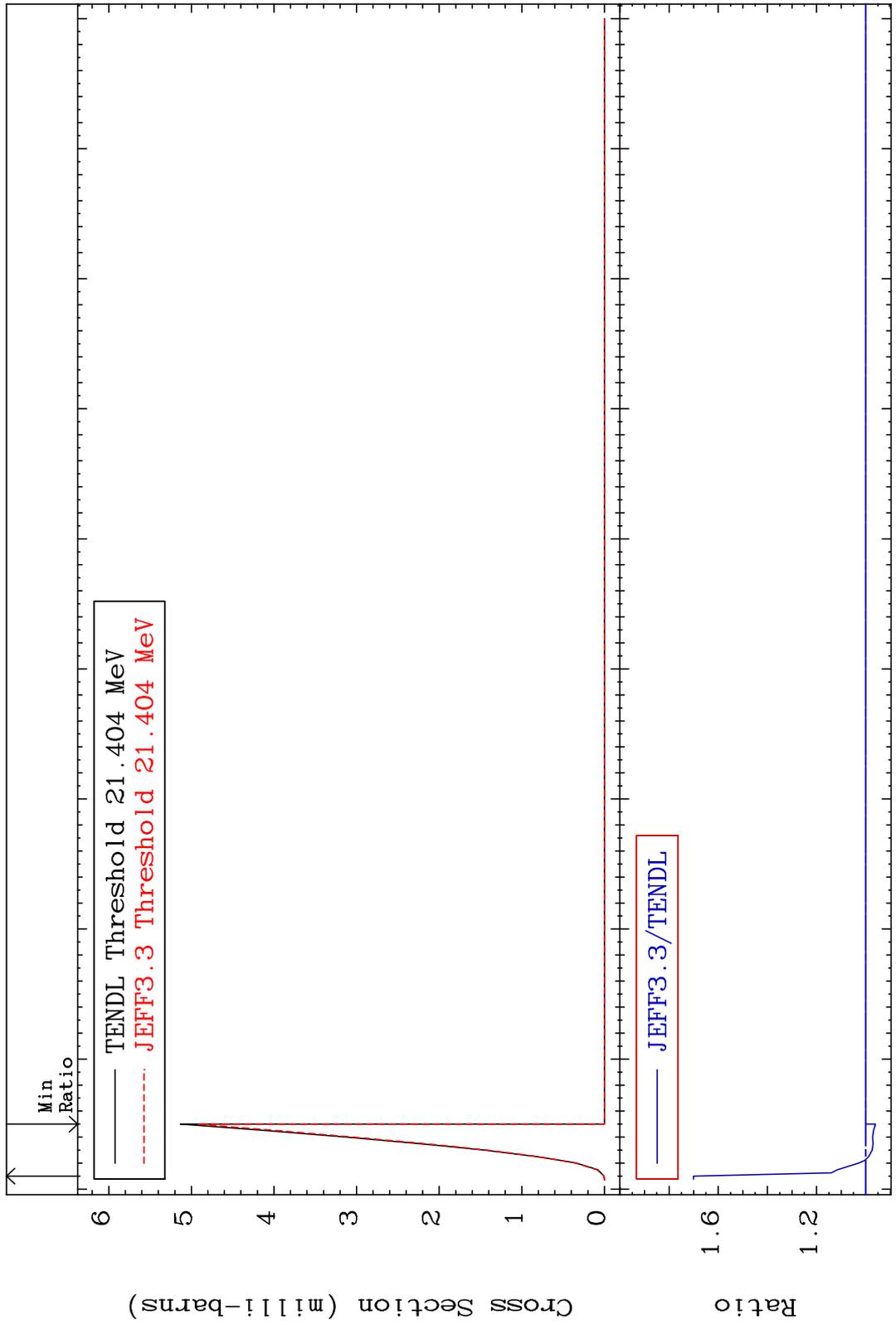
MAT 1928

(n,3n)

19-K -40

Cross Section

-3.979 To 70.06 %



6

Incident Energy (MeV)

19-K -40

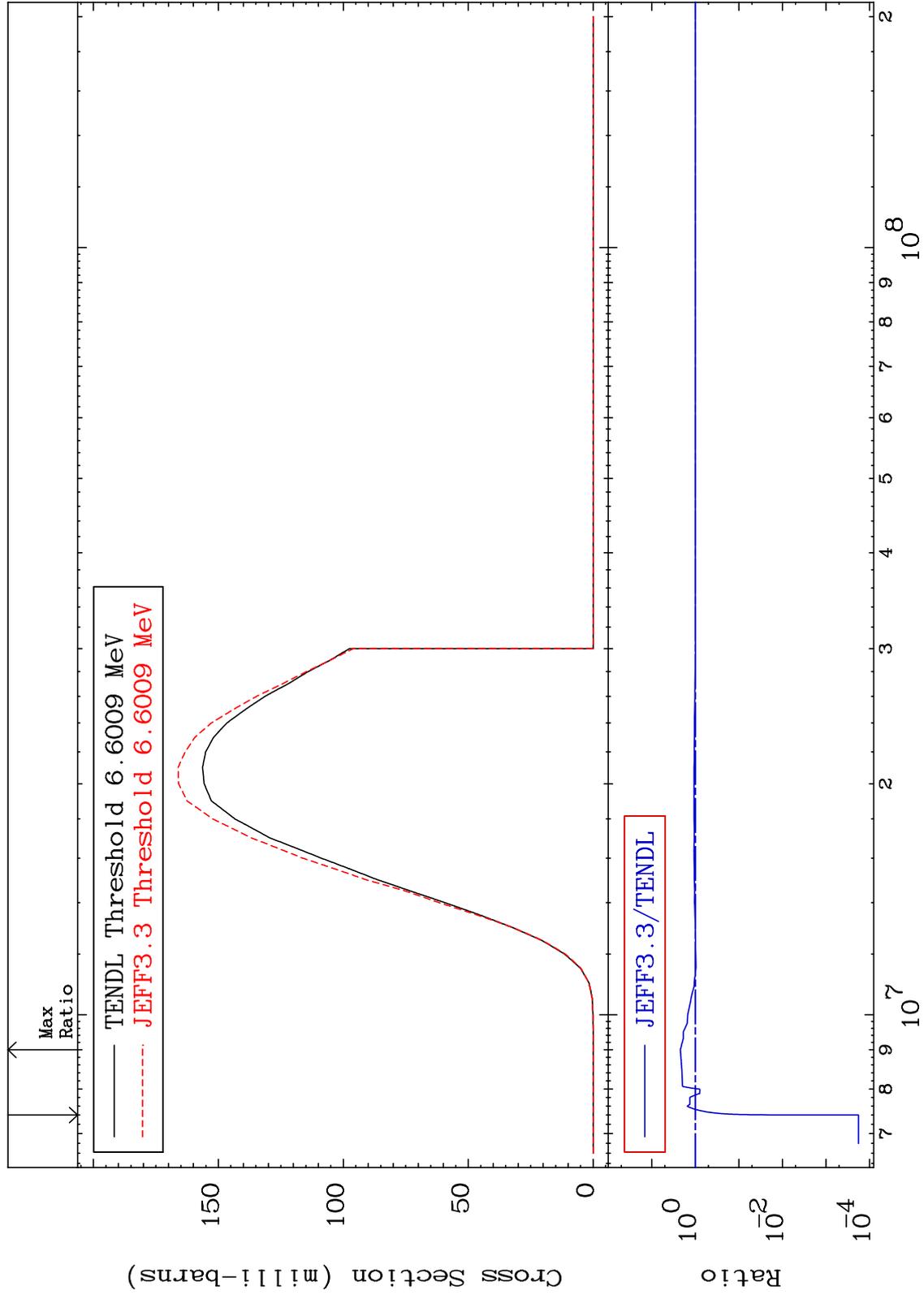
MAT 1928

(n,n') α

19-K -40

Cross Section

-99.98 To 119.7 %



7

Incident Energy (eV)

19-K -40

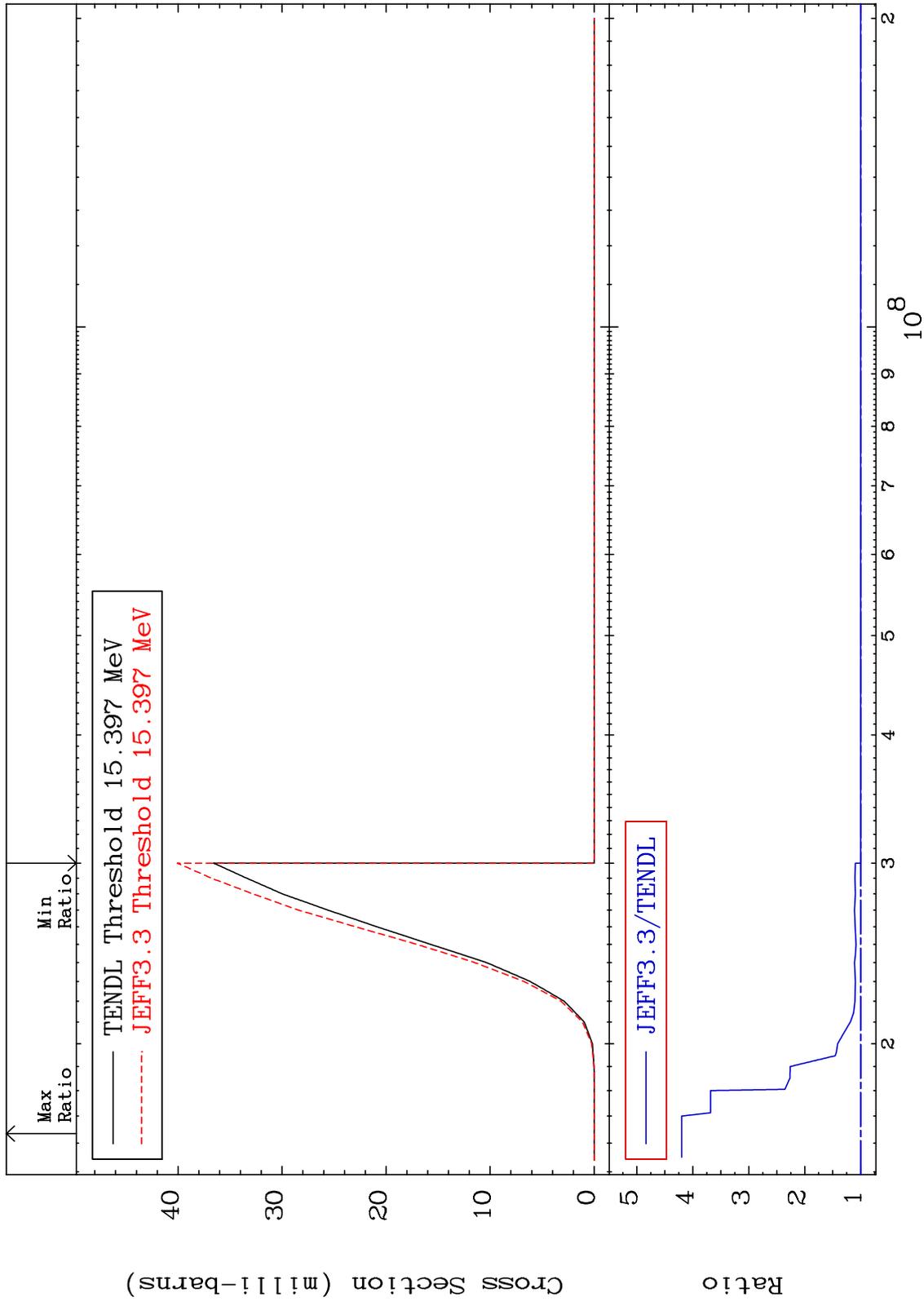
MAT 1928

(n,2n) α

Cross Section

19-K -40

0.000 To 319.9 %



8

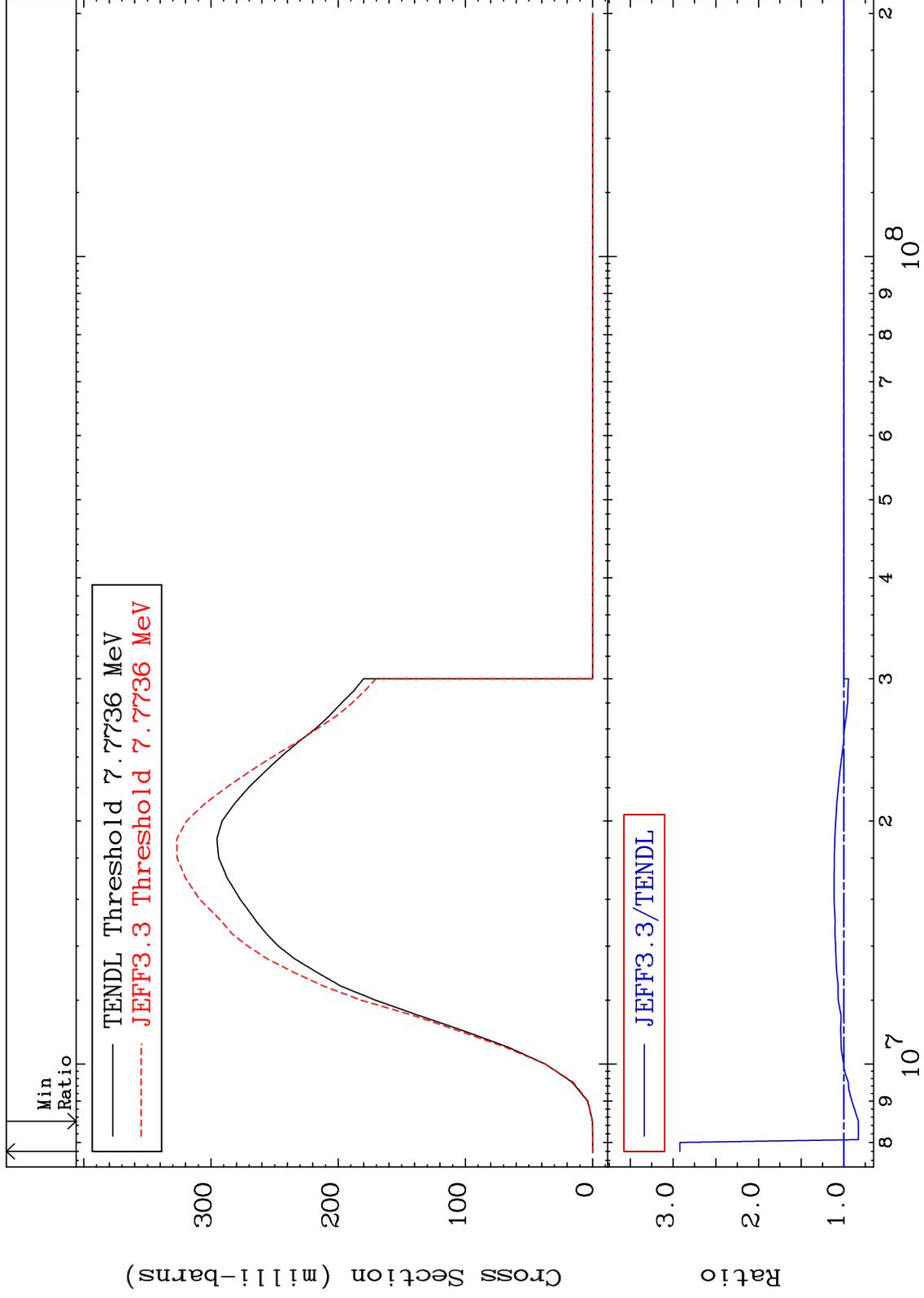
Incident Energy (eV)

19-K -40

MAT 1928

(n,n') p
Cross Section

19-K -40
-16.94 To 192.0 %



9

Incident Energy (eV)

19-K -40

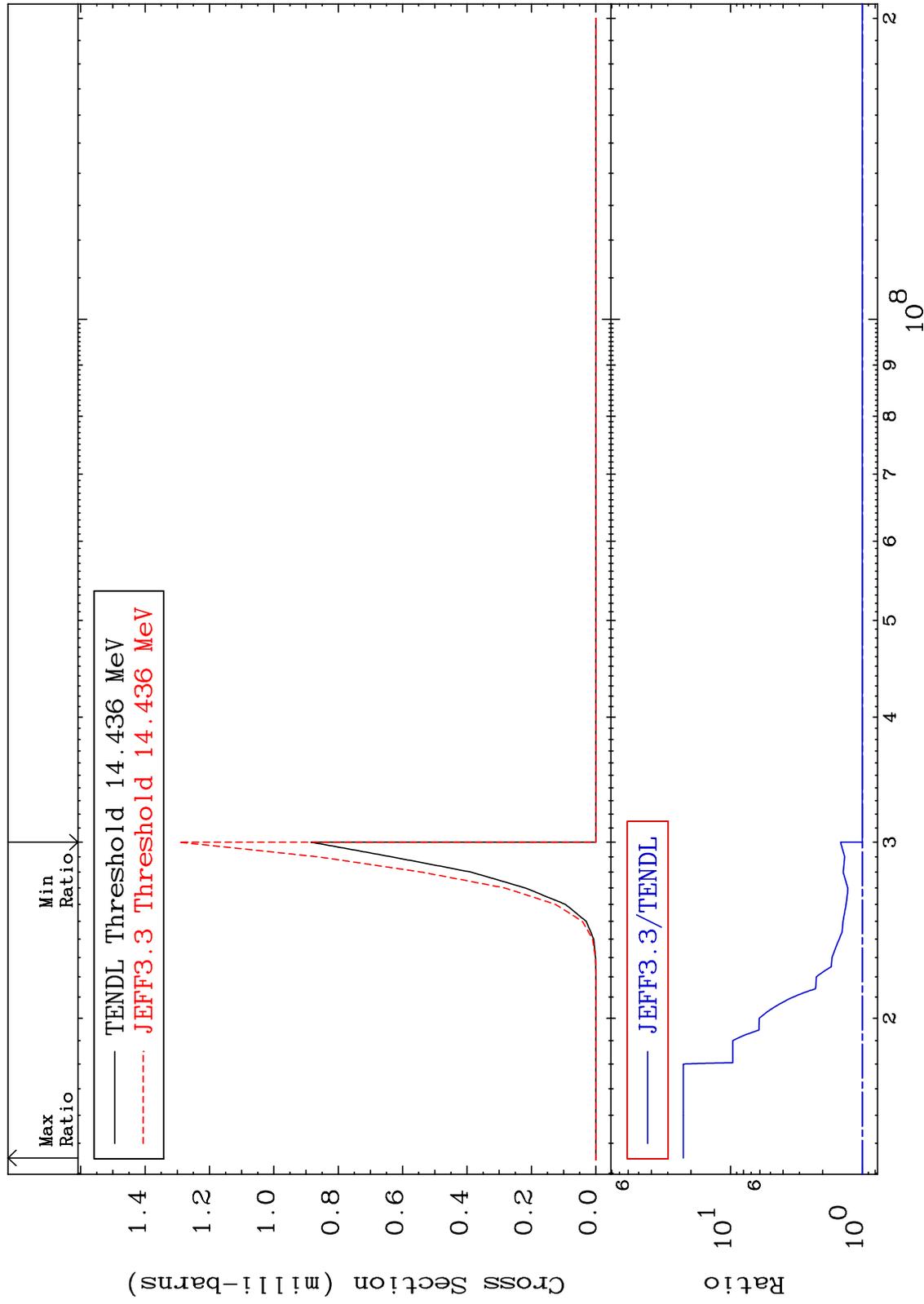
MAT 1928

(n,n') 2α

Cross Section

19-K -40

0.000 To 2187. %



10

Incident Energy (eV)

19-K -40

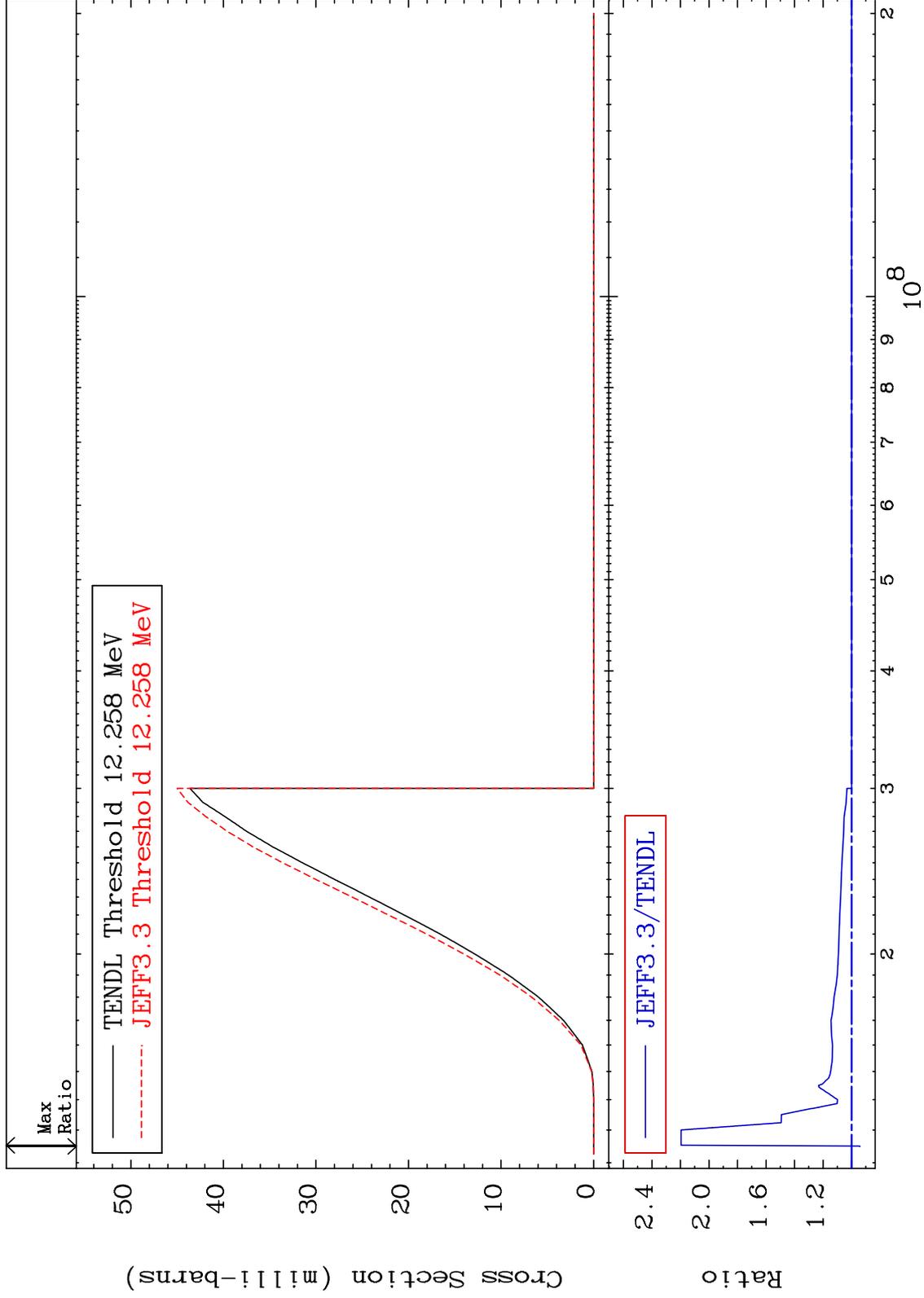
MAT 1928

(n,n') d

19-K -40

Cross Section

-5.822 To 119.5 %



MAT 1928

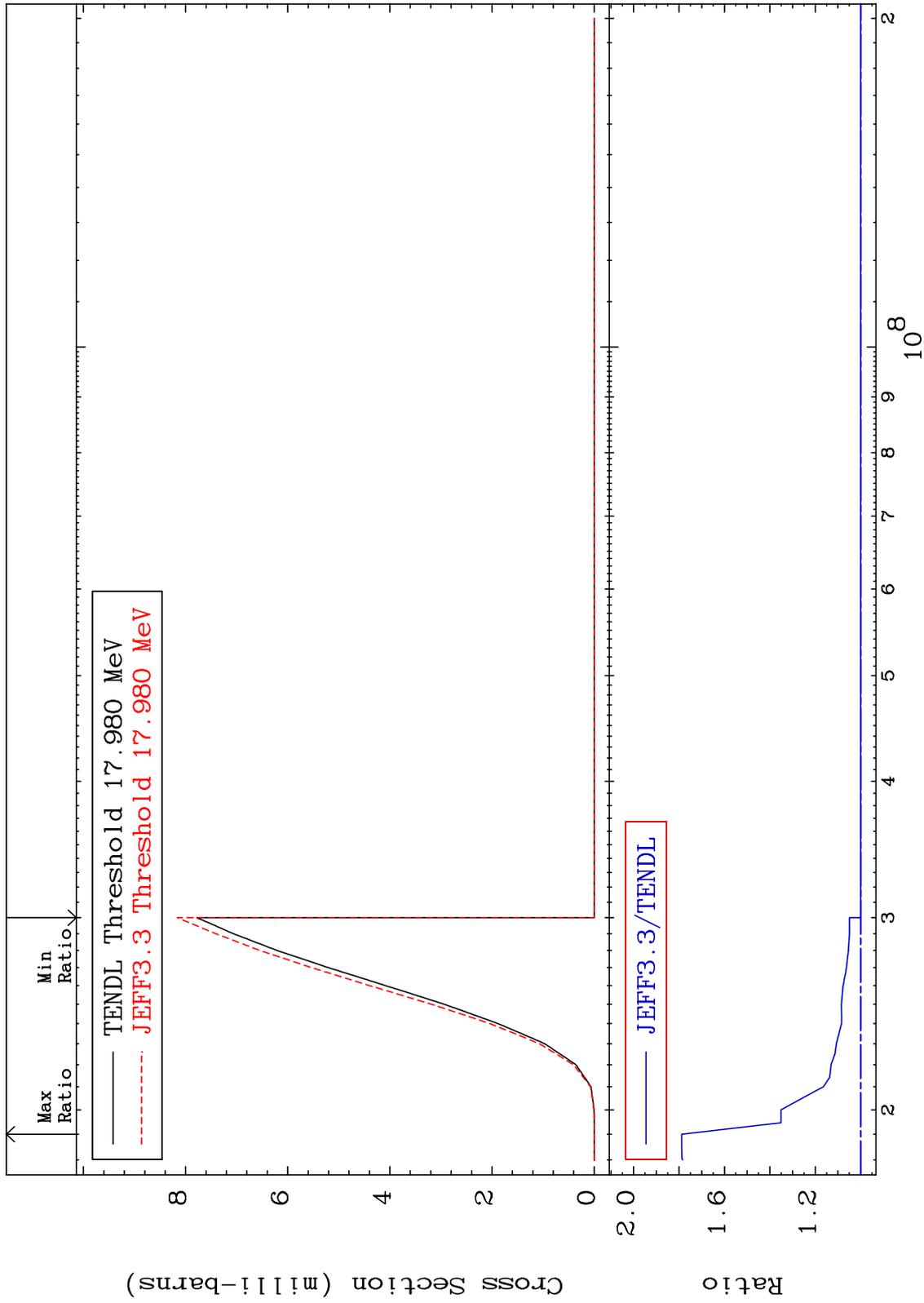
(n,n') t

19-K -40

Cross Section

0.000

To 78.81 %



12

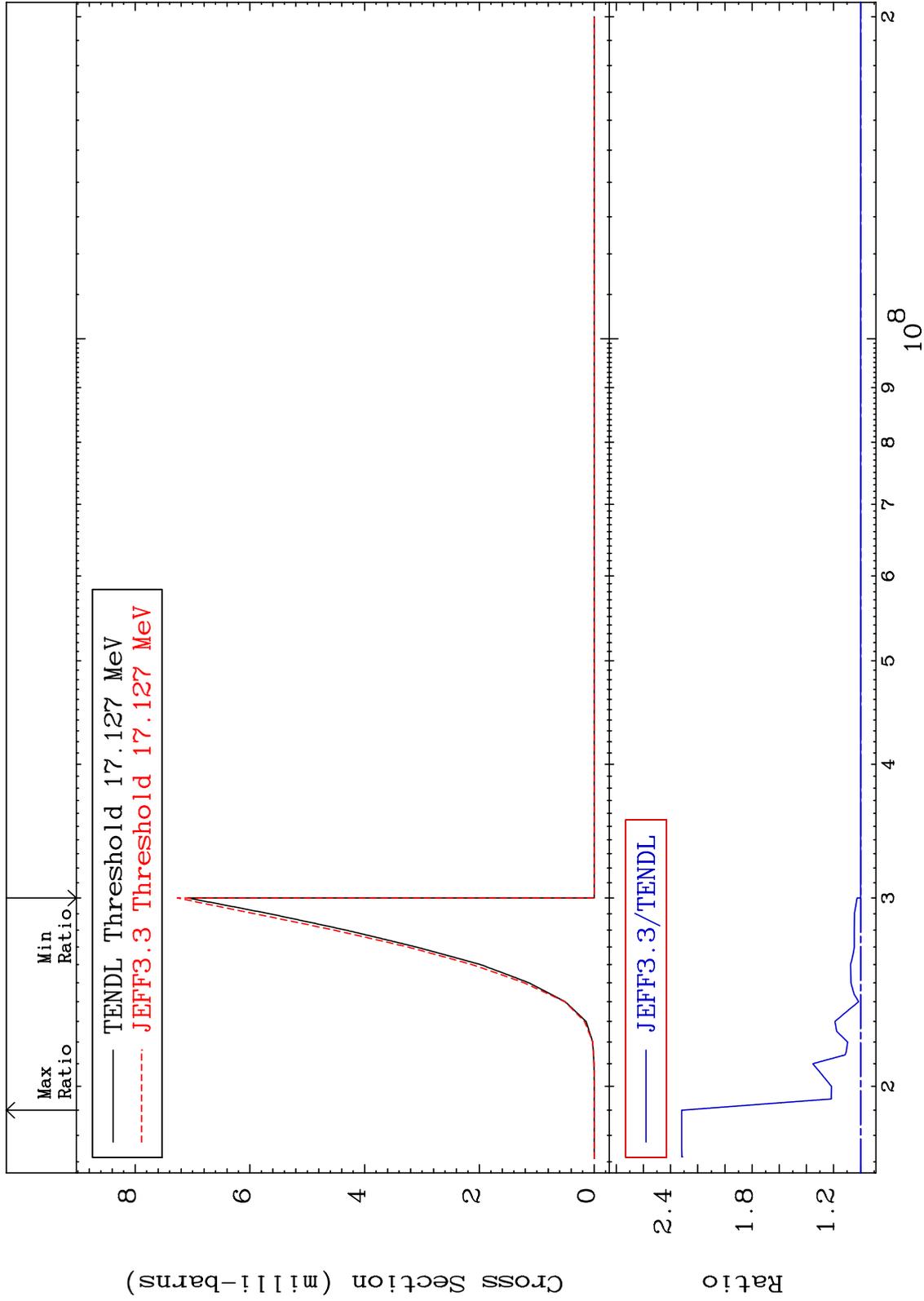
Incident Energy (eV)

19-K -40

MAT 1928

(n,n') He-3
Cross Section

19-K -40
0.000 To 131.8 %



13

Incident Energy (eV)

19-K -40

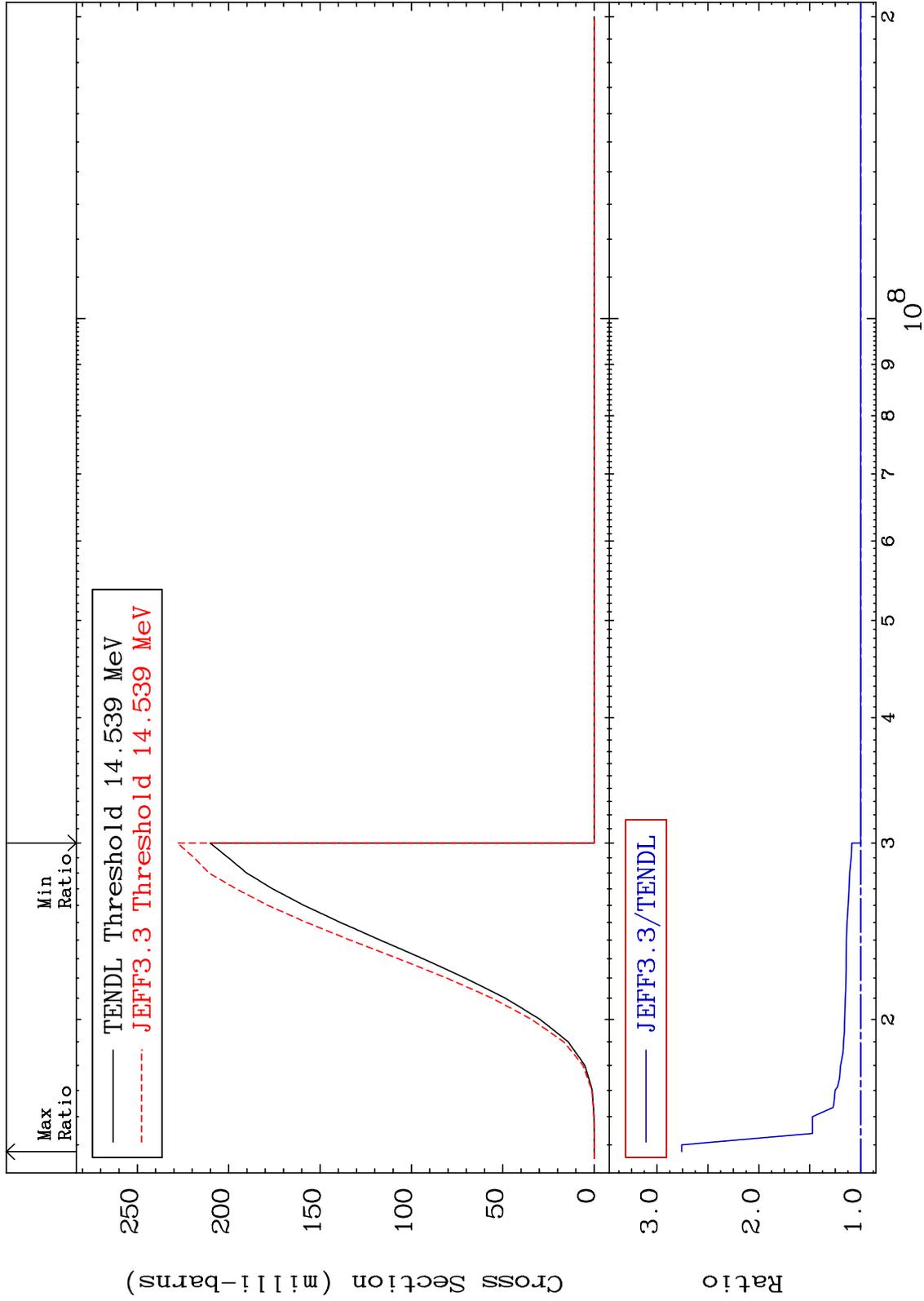
MAT 1928

(n,2n) p

19-K -40

Cross Section

0.000 To 175.7 %



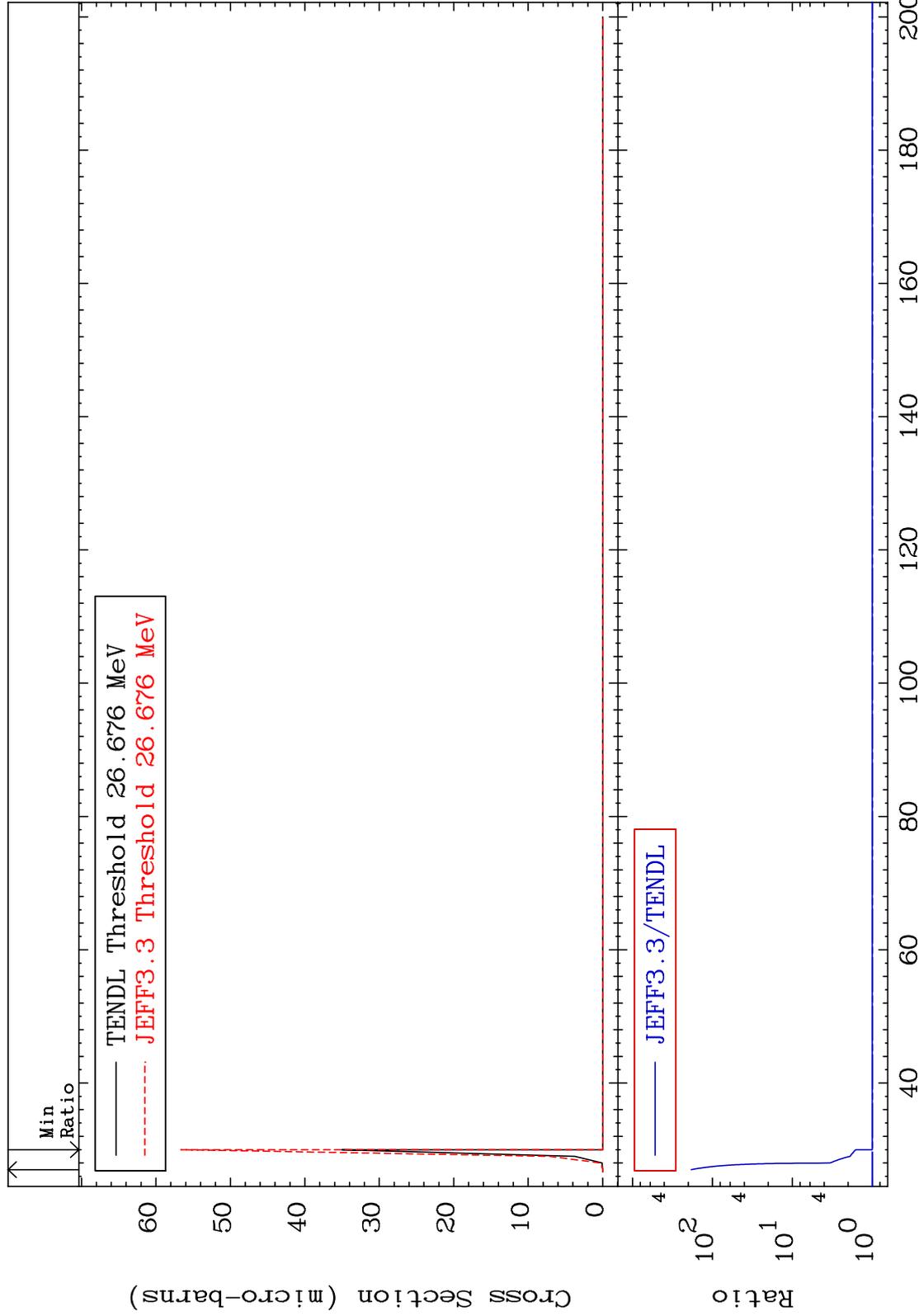
MAT 1928

(n,3n) p

19-K -40

Cross Section

0.000 To 9999. %



15

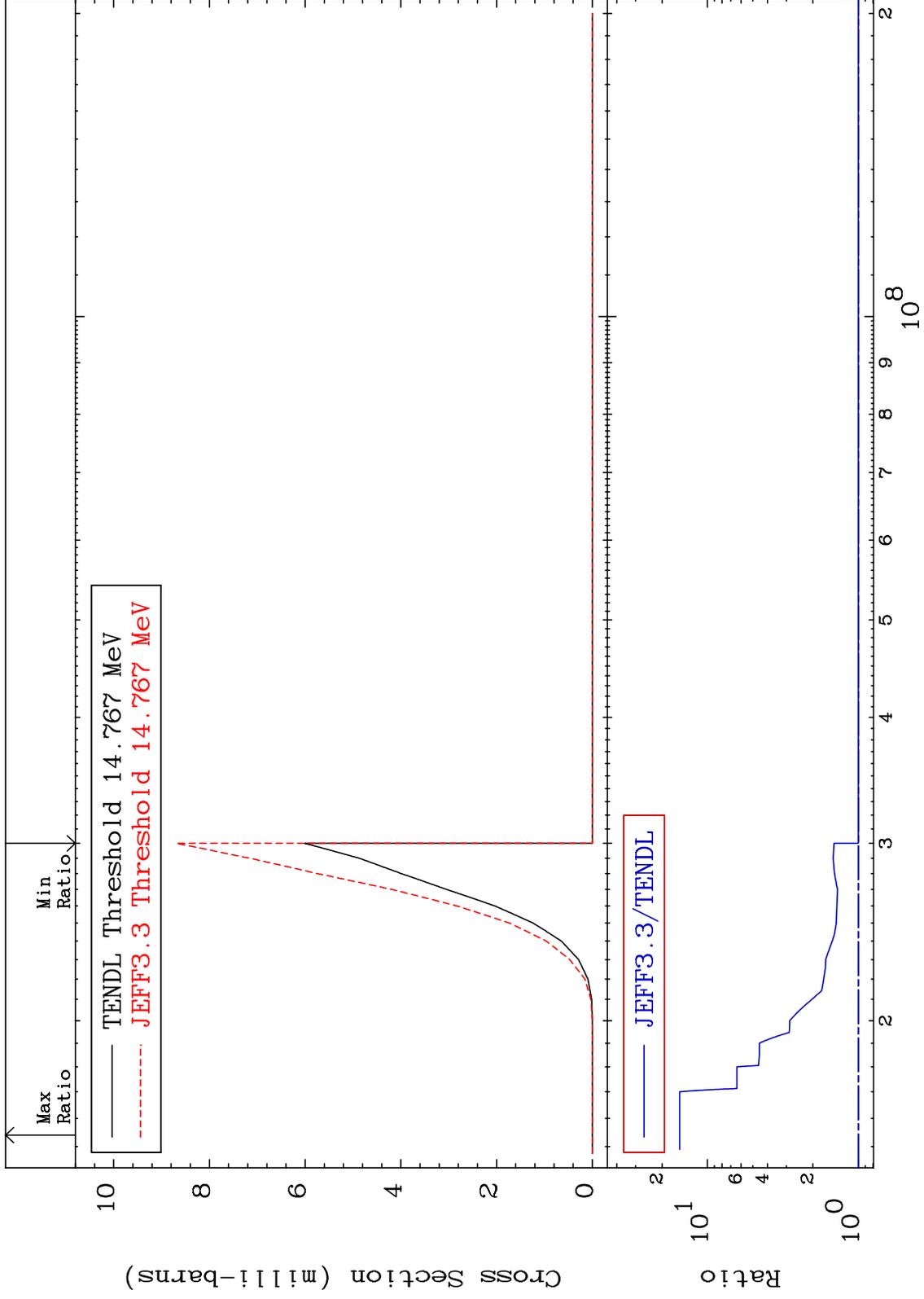
Incident Energy (MeV)

19-K -40

MAT 1928

(n,n') p α
Cross Section

19-K -40
0.000 To 1428. %



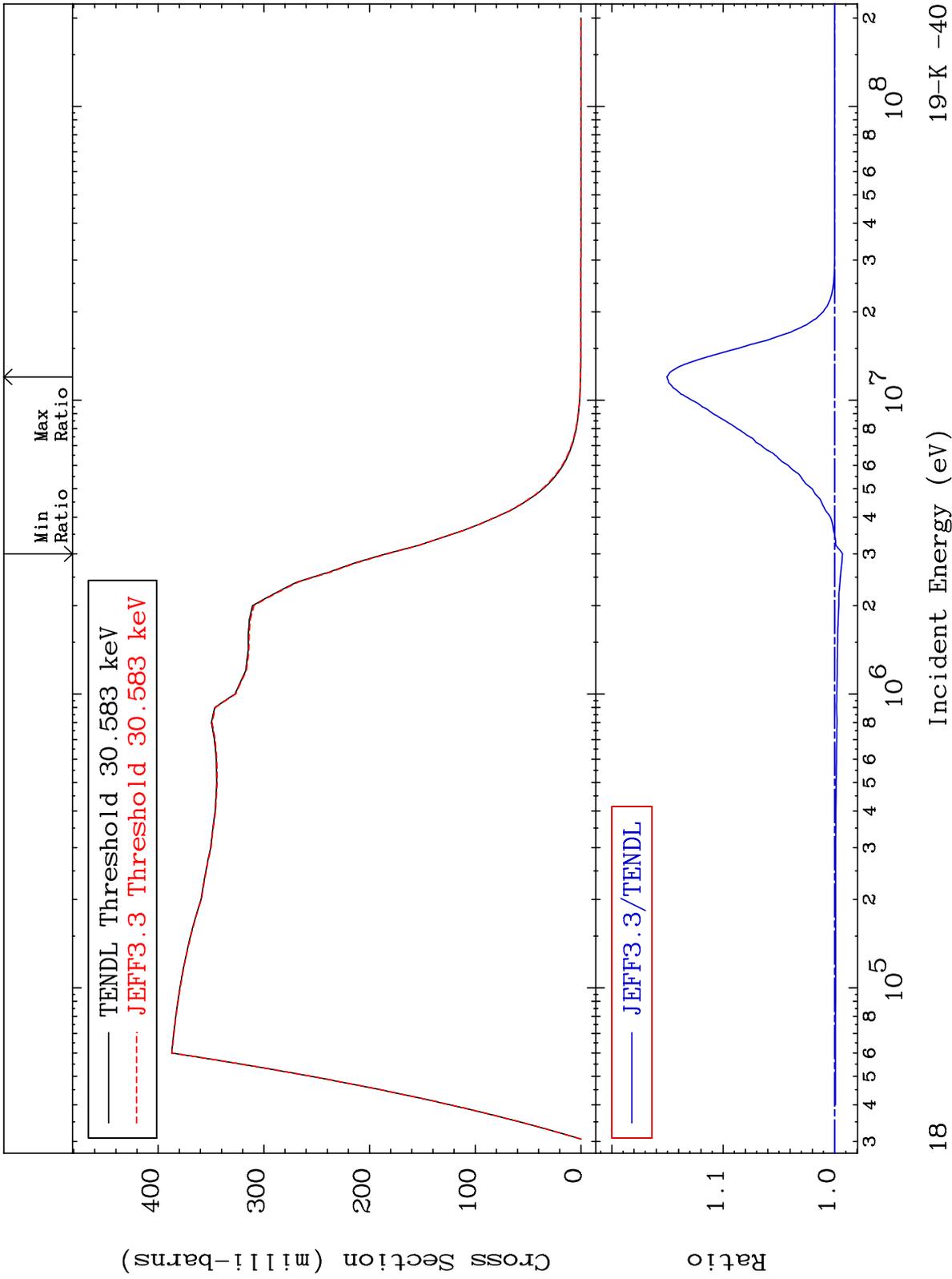
MAT 1928

MT= 51 (n,n') Level

19-K -40

-0.711 To 15.05 %

Cross Section



18

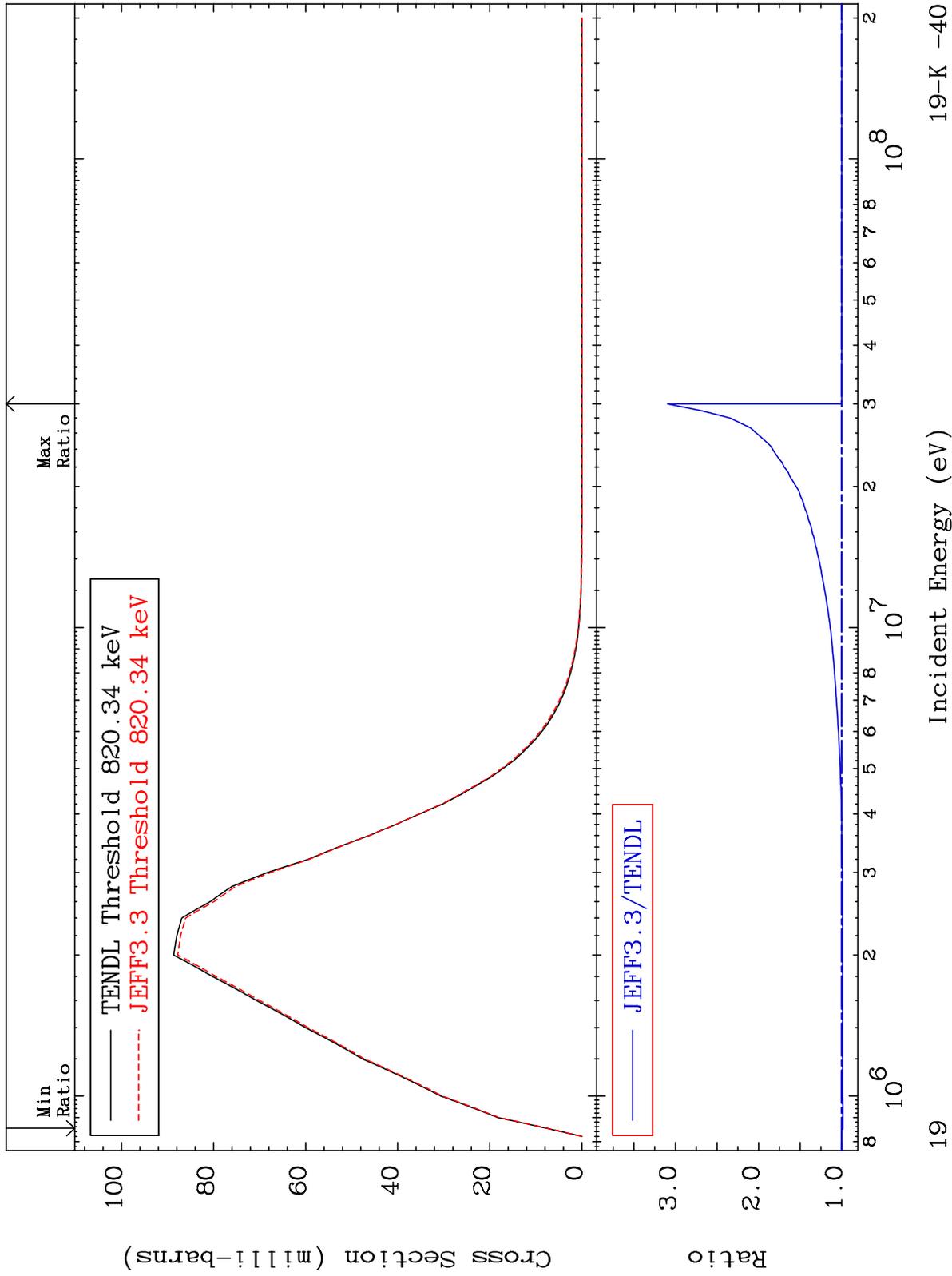
Incident Energy (eV)

19-K -40

MAT 1928

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

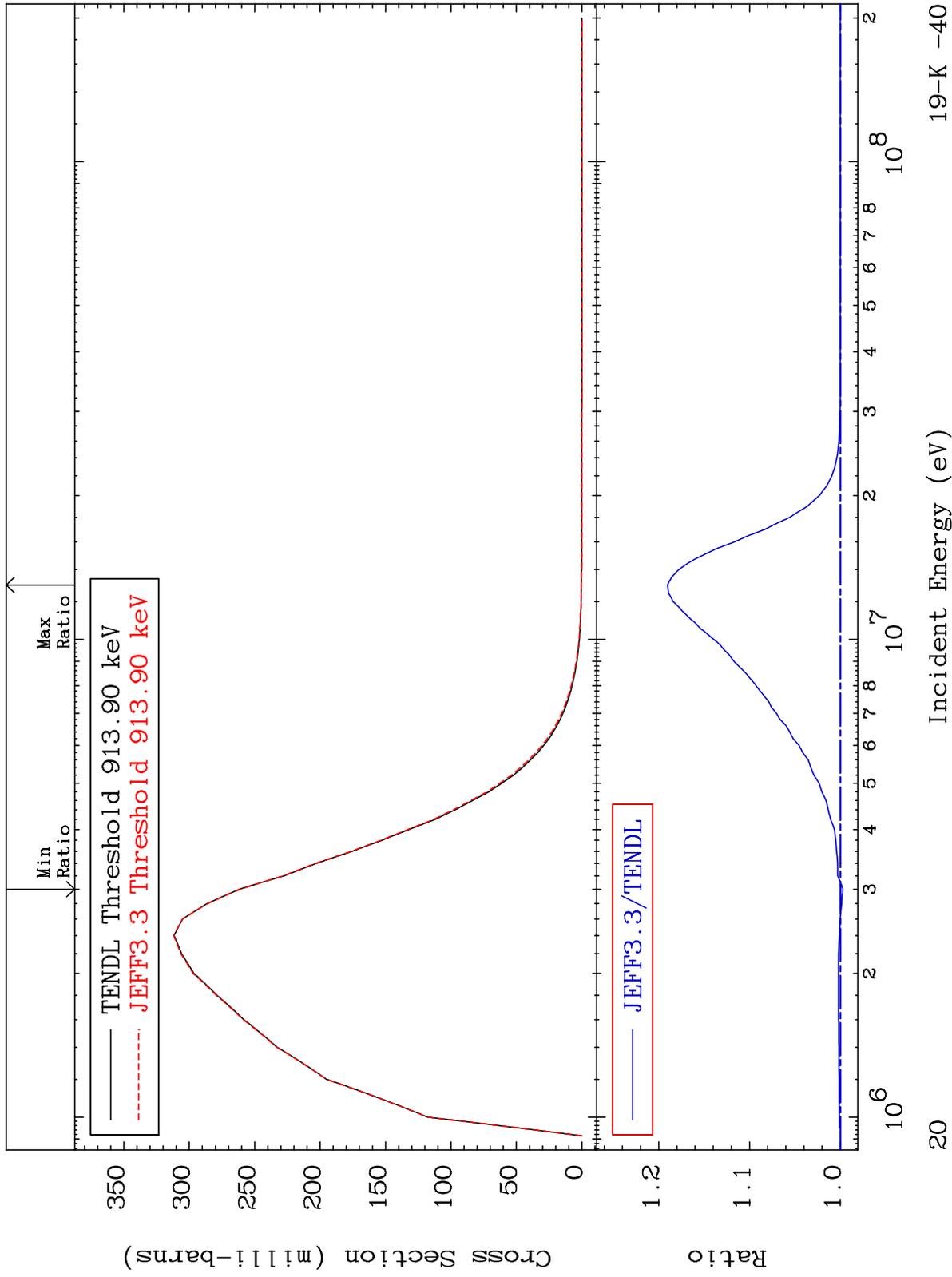
19-K -40
-1.330 To 209.6 %



MAT 1928

MT= 53 (n,n') Level
Cross Section

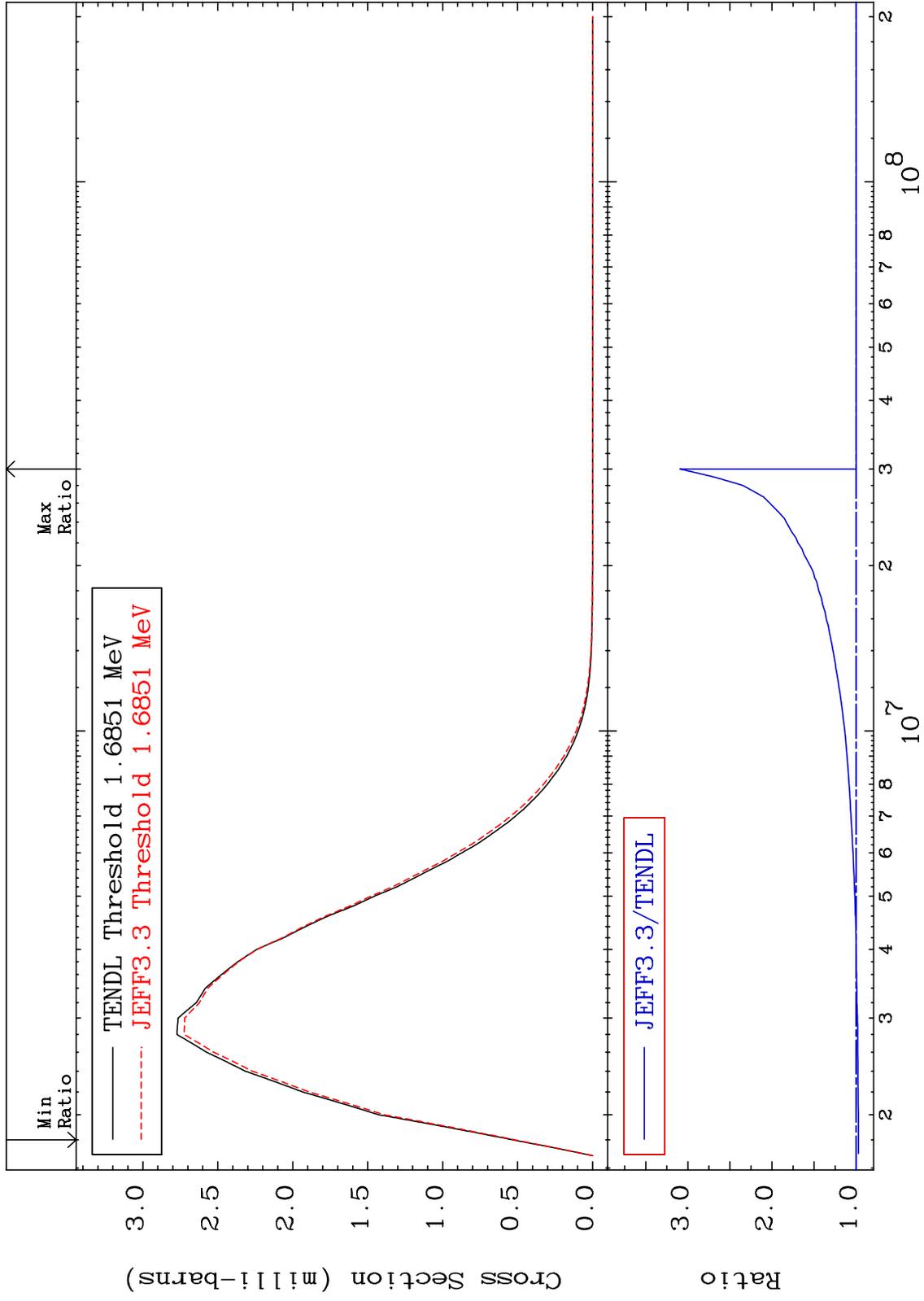
19-K -40
-0.283 To 19.02 %



MAT 1928

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

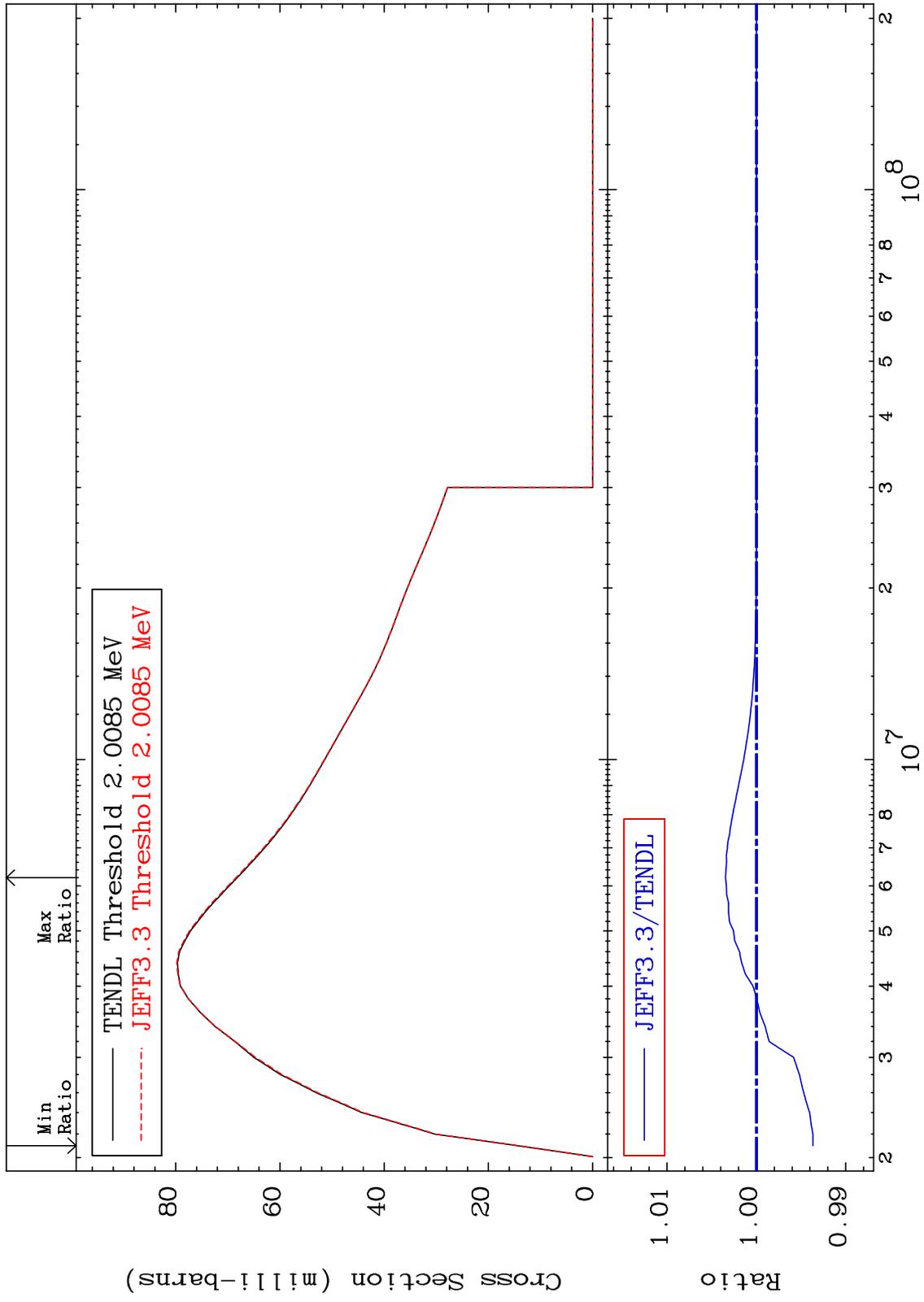
19-K -40
-2.602 To 209.4 %



MAT 1928

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

19-K -40
-0.633 To 0.347 %



22

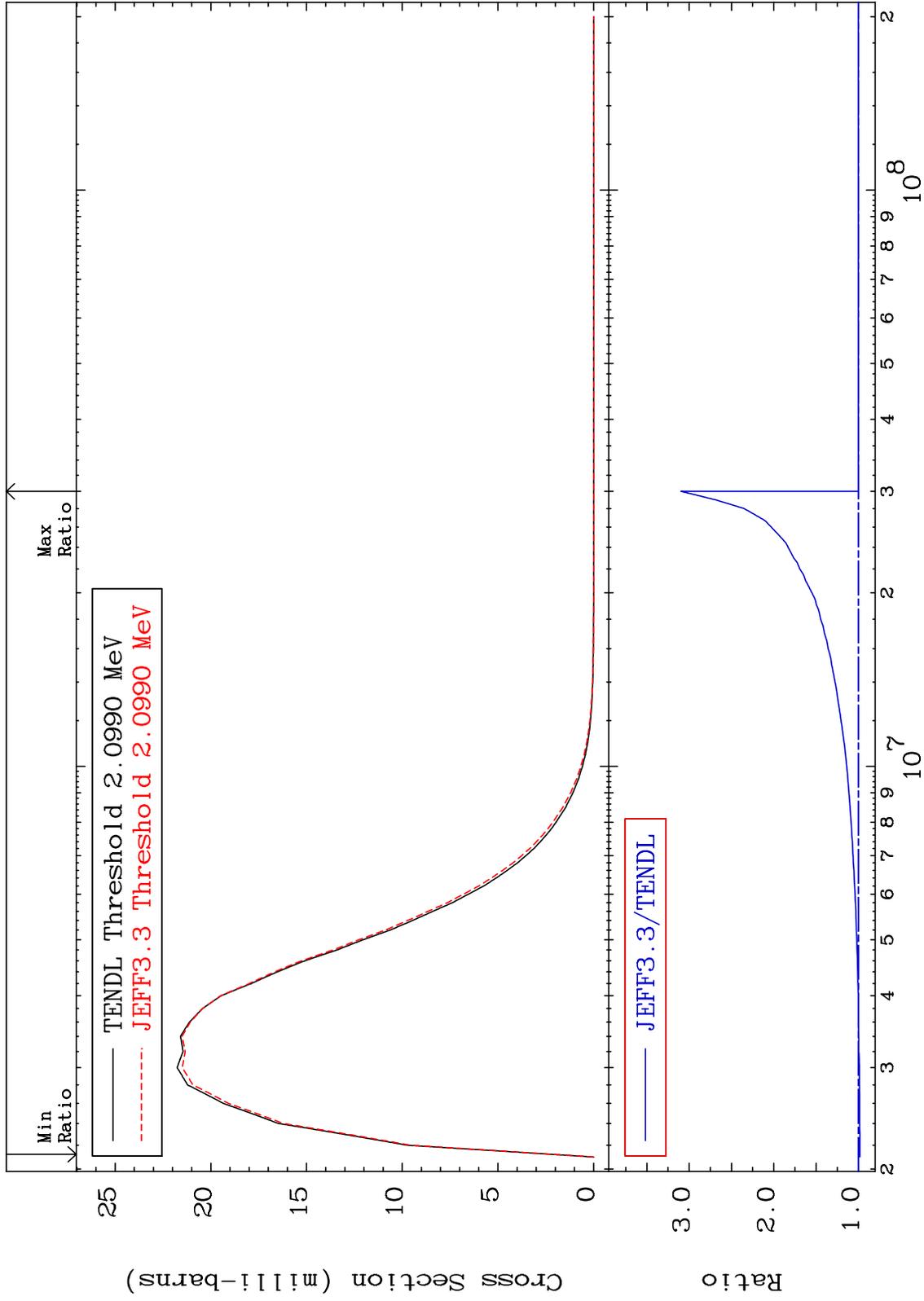
Incident Energy (eV)

19-K -40

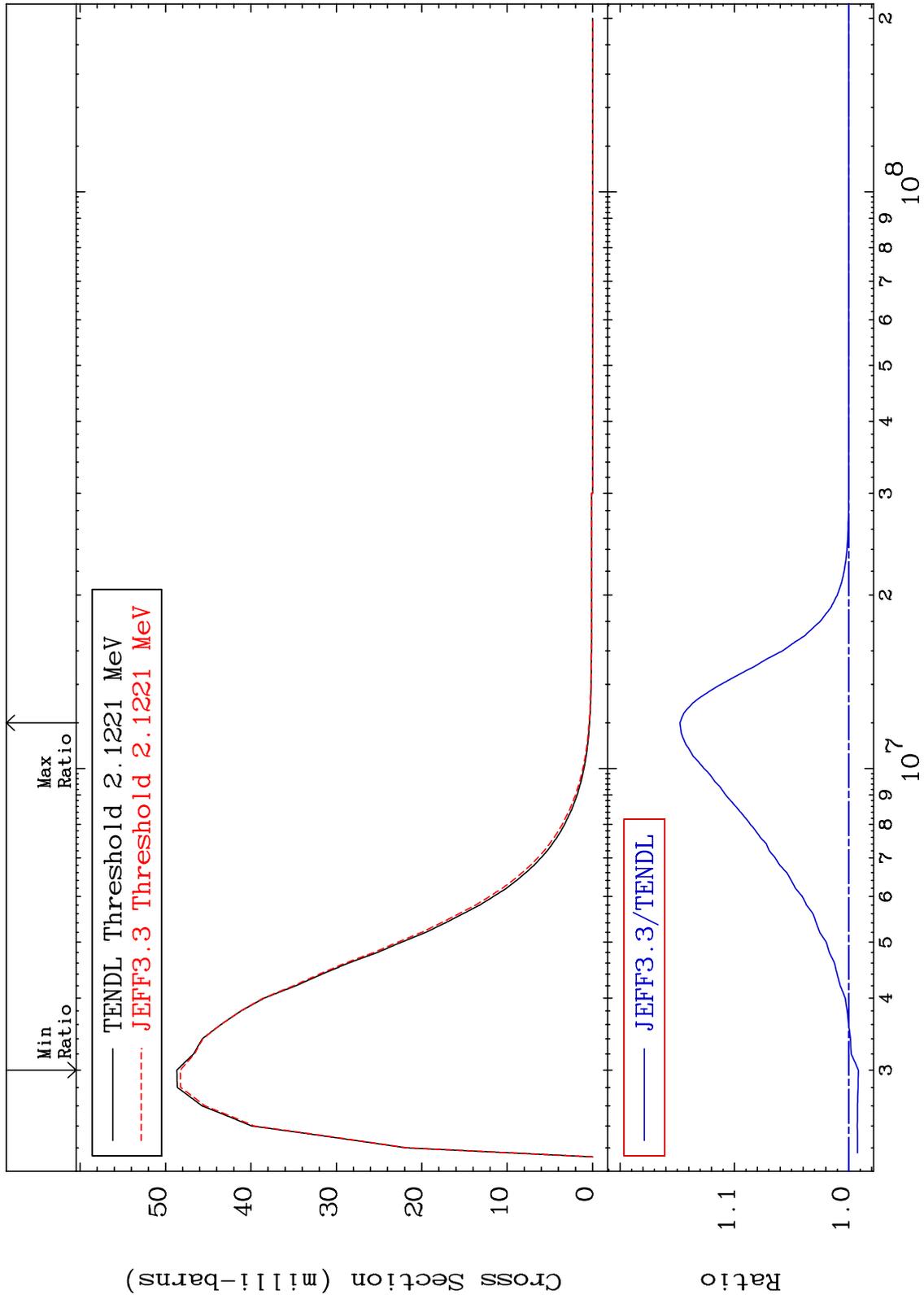
MAT 1928

MT= 56 (n,n') Level
Cross Section

19-K -40
-1.790 To 209.5 %



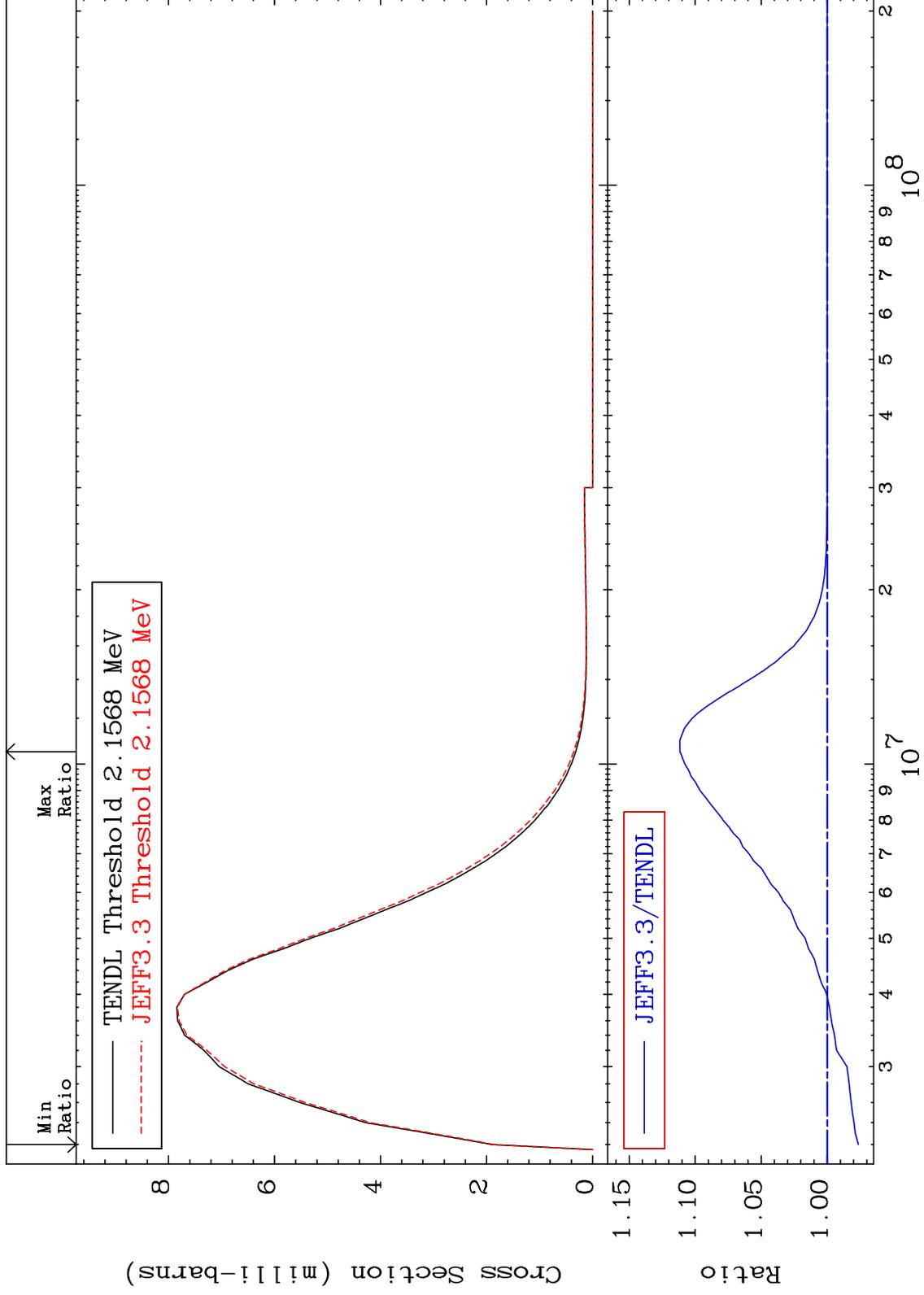
MAT 1928 MT= 57 (n,n') Level
 Cross Section 19-K -40
 -0.841 To 14.77 %



MAT 1928

MT= 58 (n,n') Level
Cross Section

19-K -40
-2.363 To 11.16 %

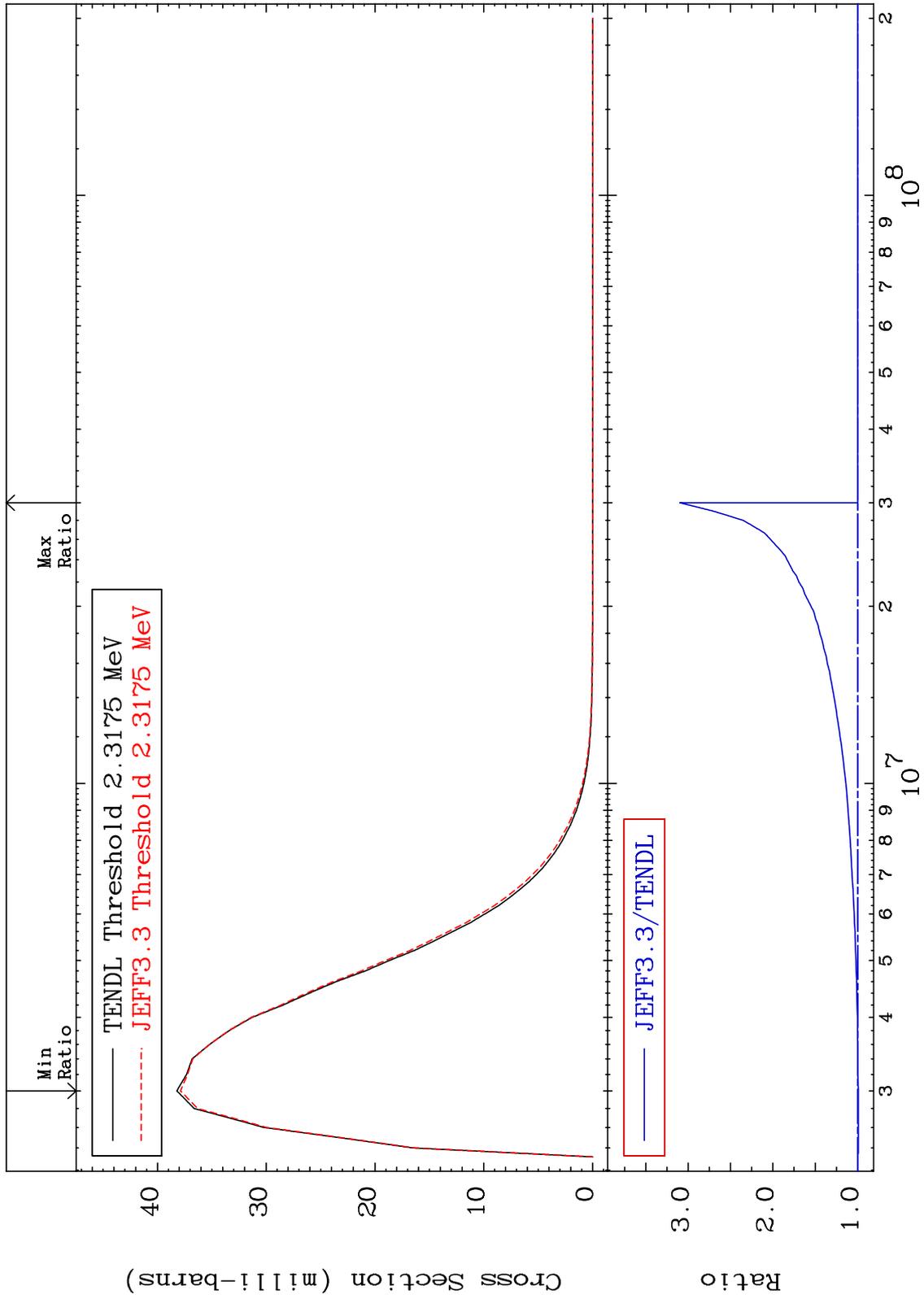


25

Incident Energy (eV)

19-K -40

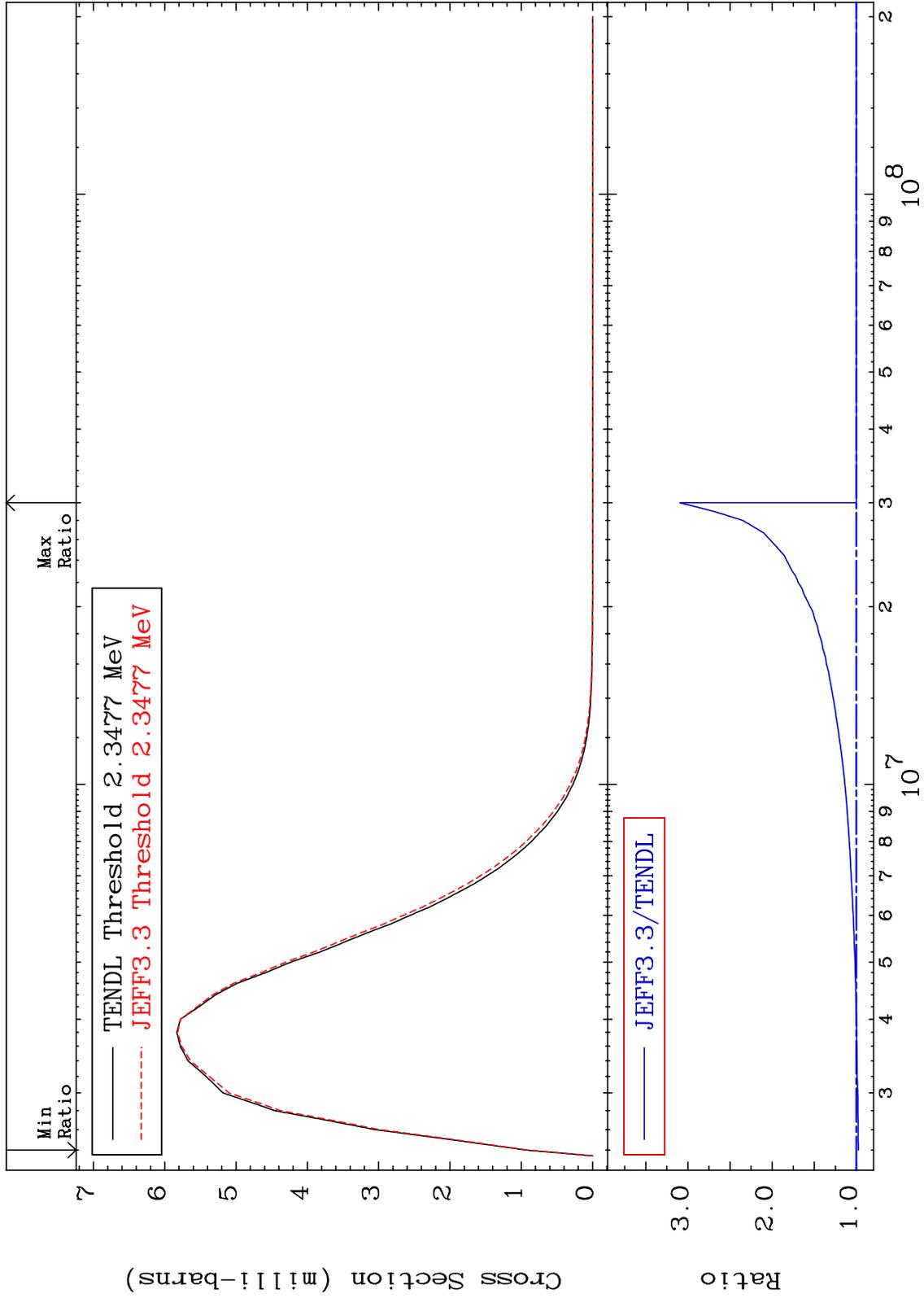
MAT 1928 MT= 59 (n, n') Level 19-K -40
 Cross Section -0.889 To 209.7 %



MAT 1928

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

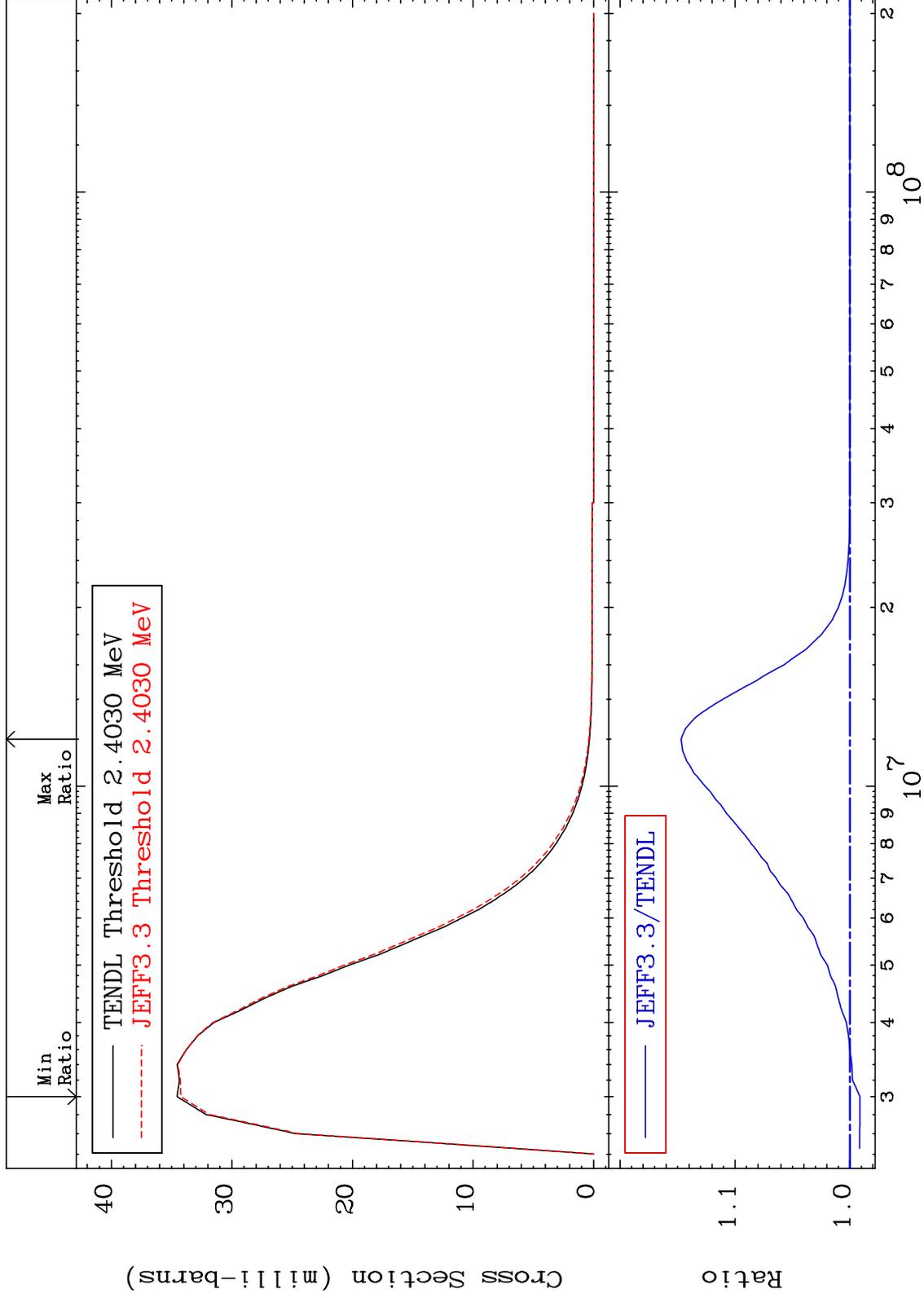
19-K -40
-2.326 To 209.4 %



MAT 1928

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

19-K -40
-0.875 To 14.69 %



28

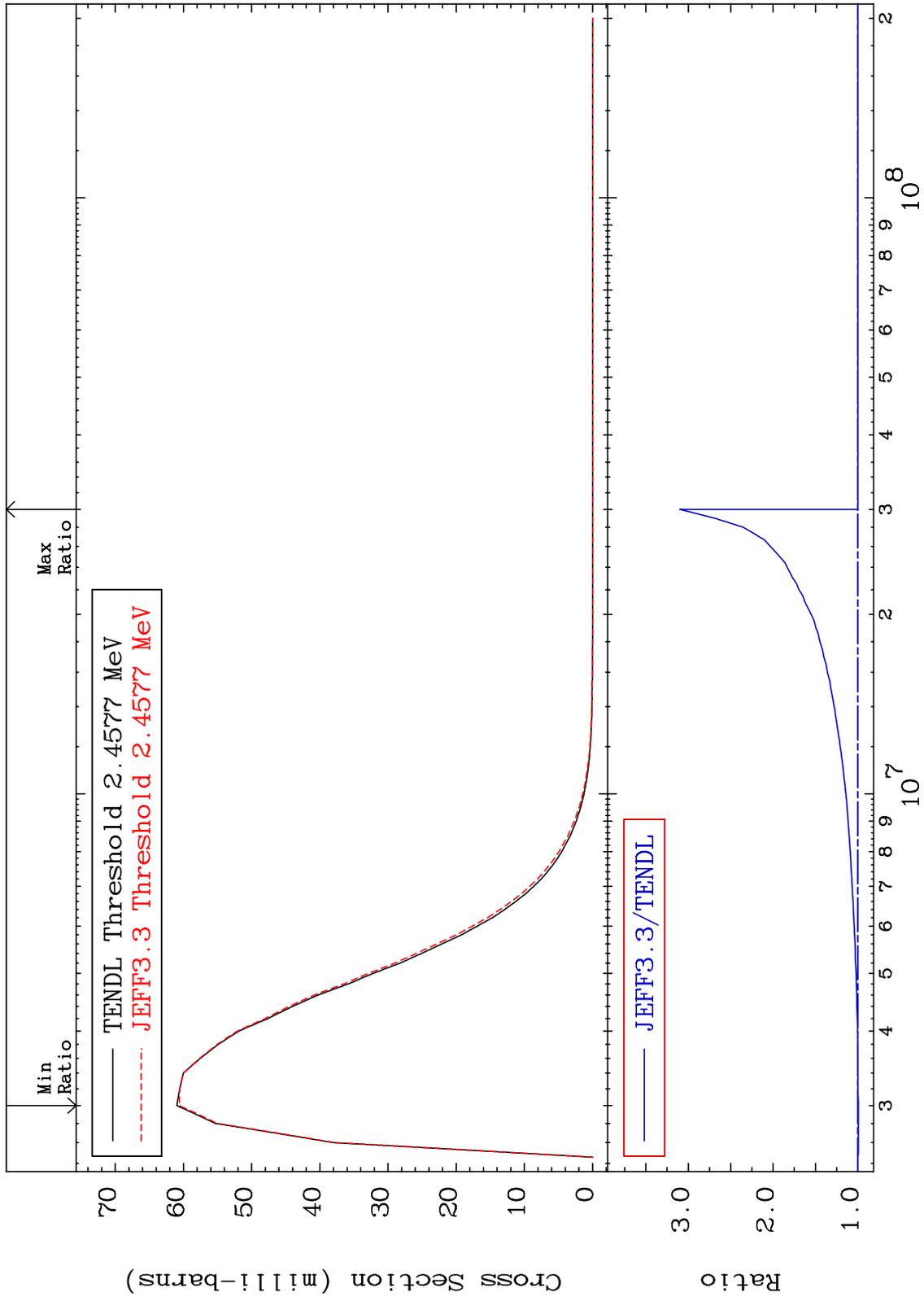
Incident Energy (eV)

19-K -40

MAT 1928

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

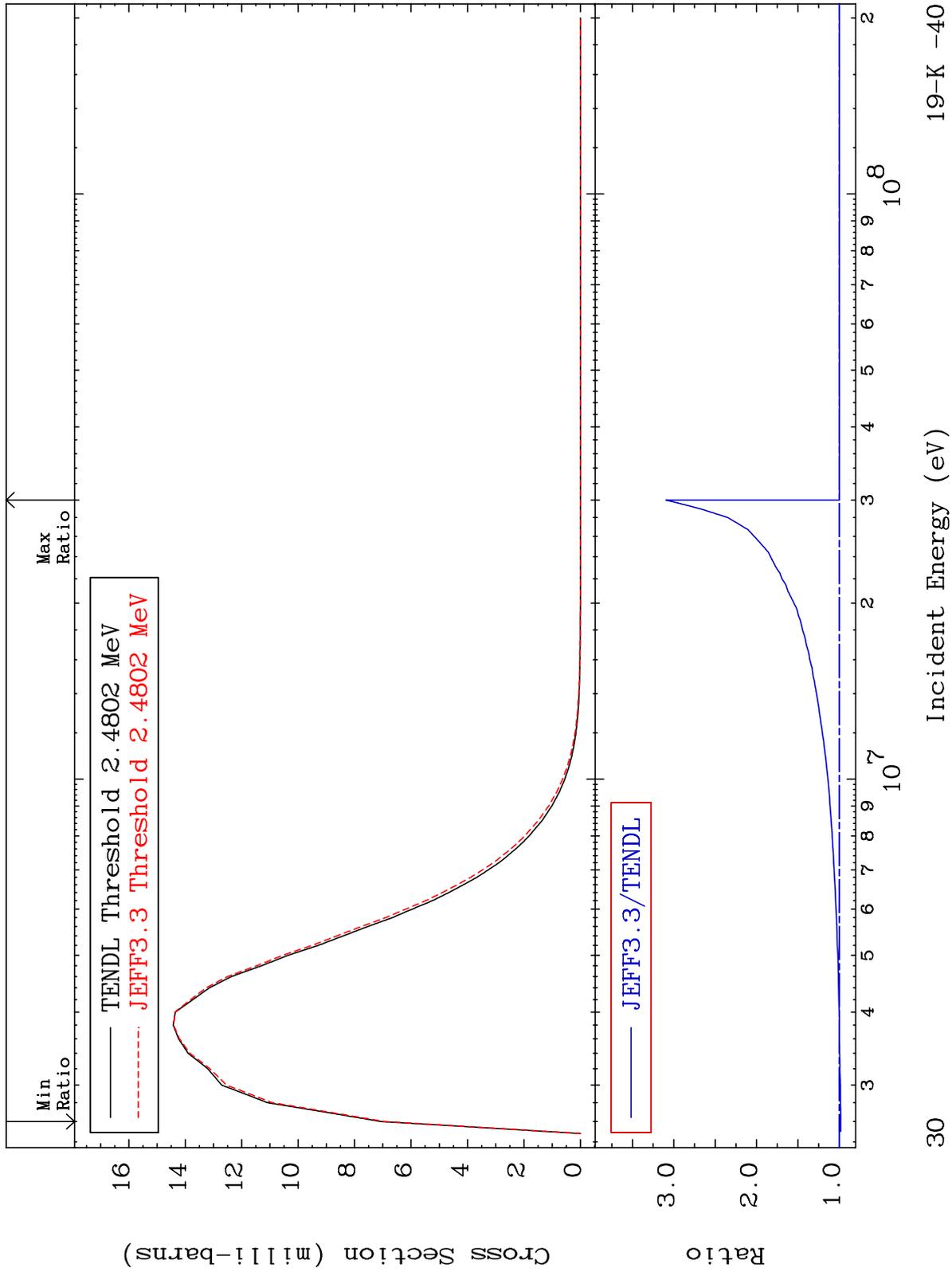
19-K -40
-0.589 To 209.9 %



MAT 1928

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

19-K -40
-1.704 To 209.5 %



30

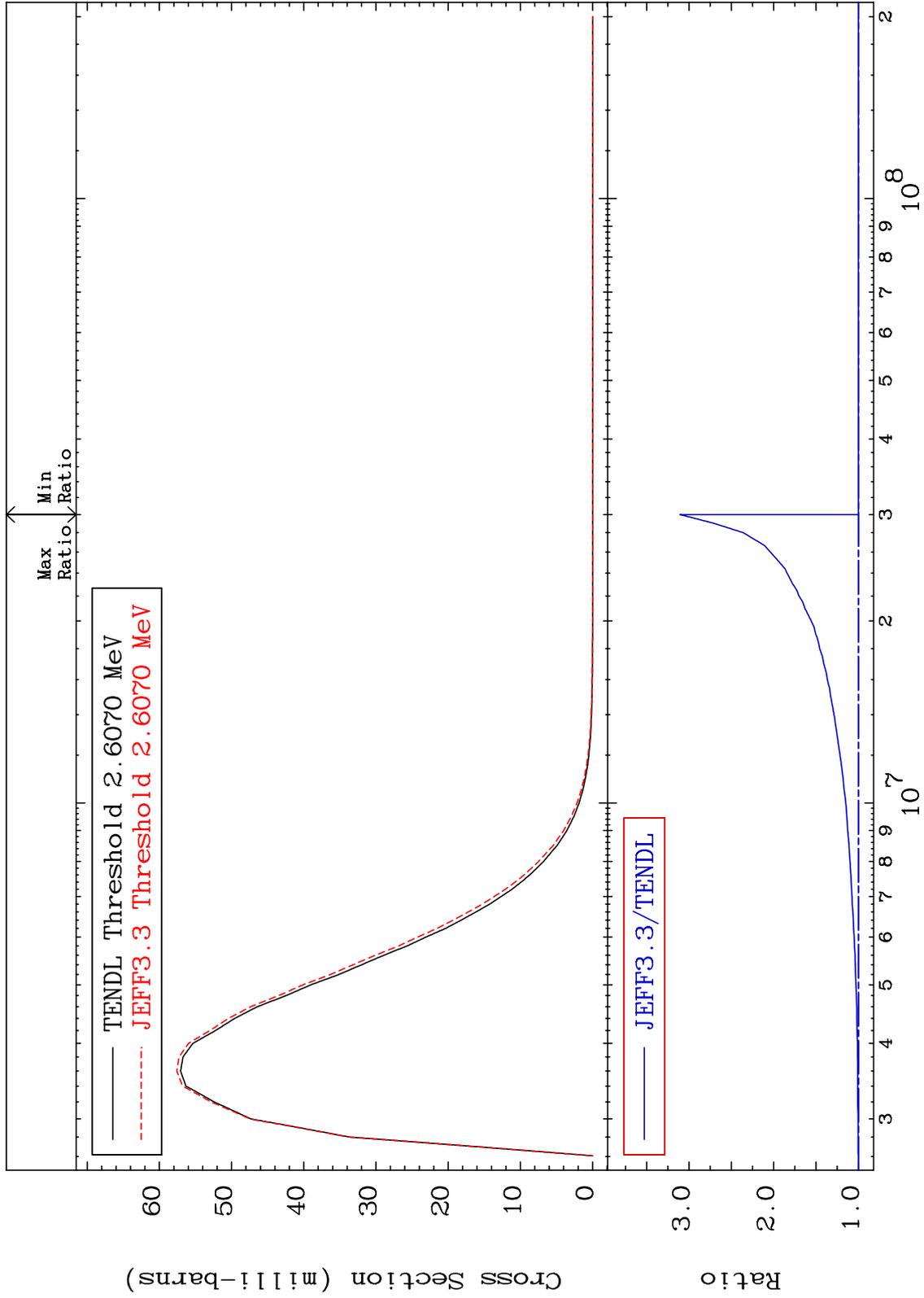
Incident Energy (eV)

19-K -40

MAT 1928

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

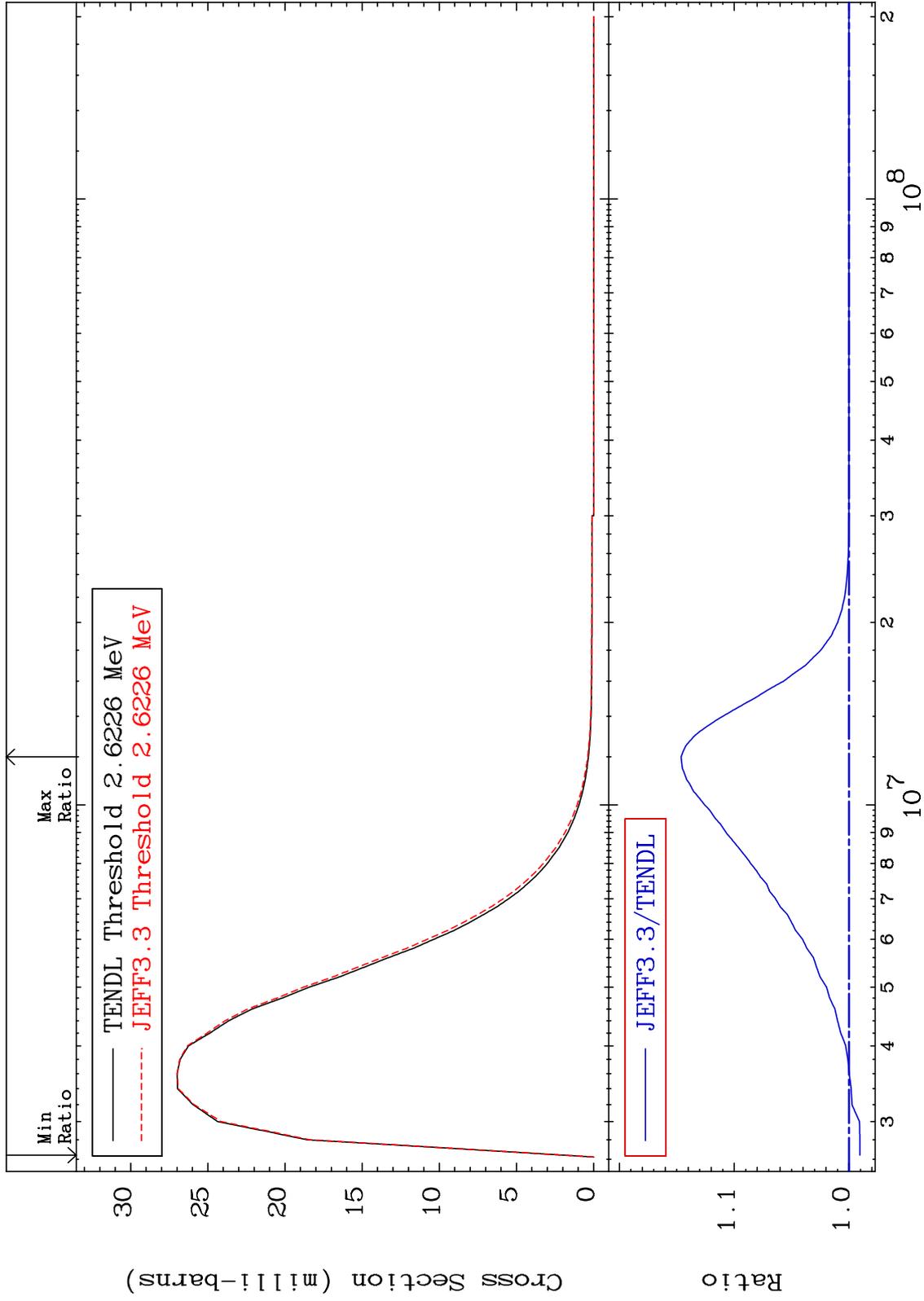
0.000 To 210.7 %
19-K -40



MAT 1928

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

19-K -40
-0.949 To 14.62 %



32

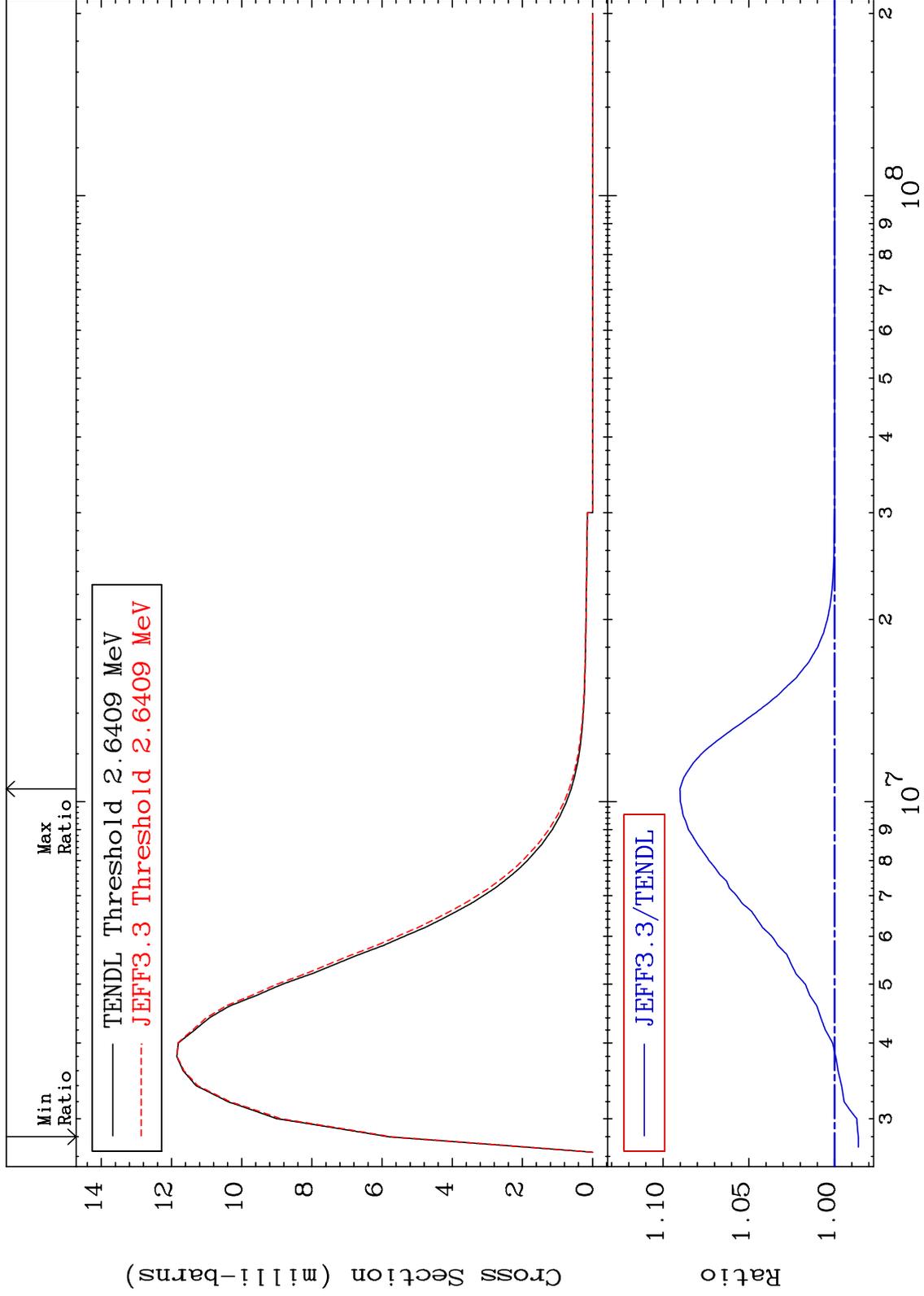
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-1.388 To 9.016 %



33

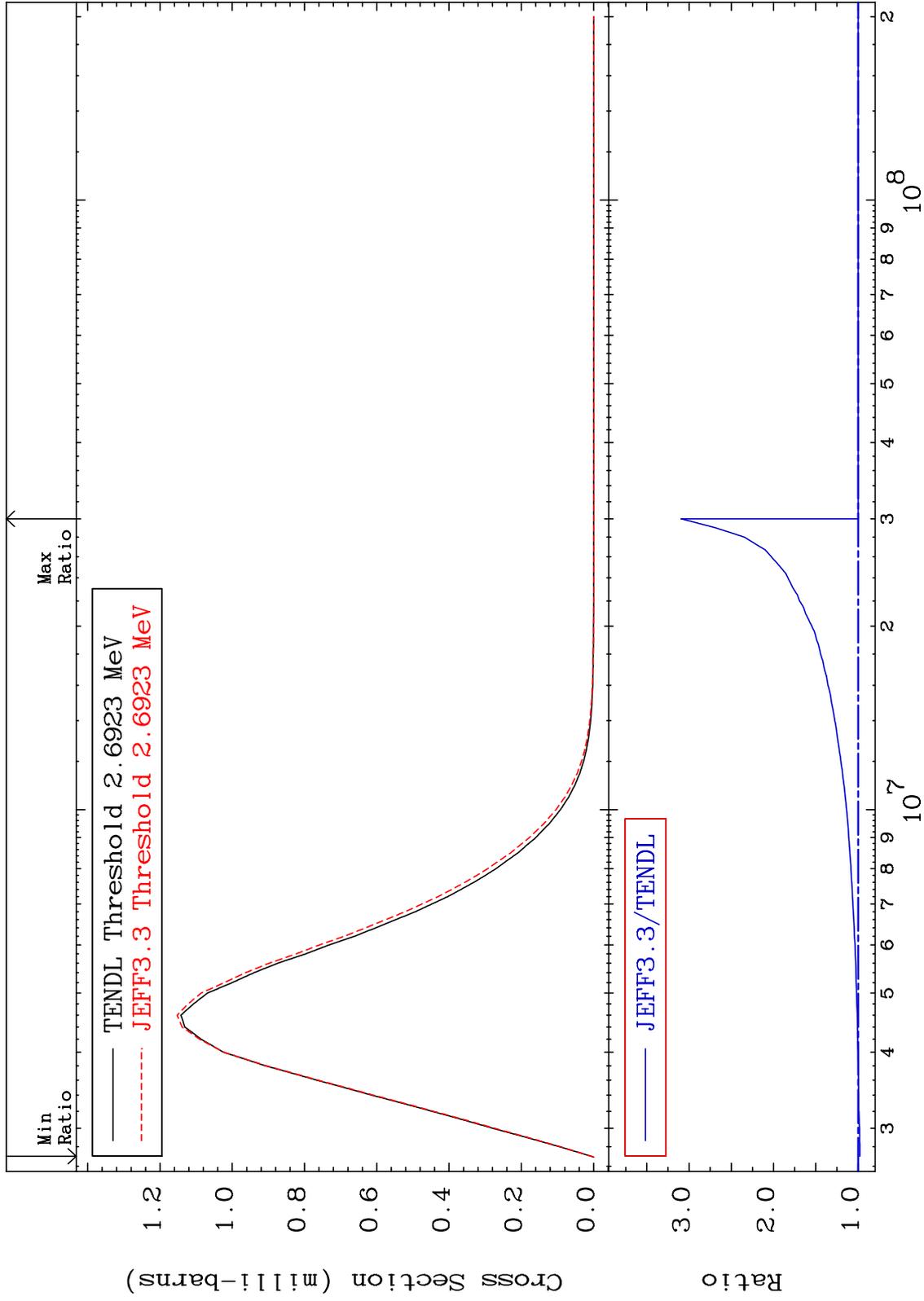
Incident Energy (eV)

19-K -40

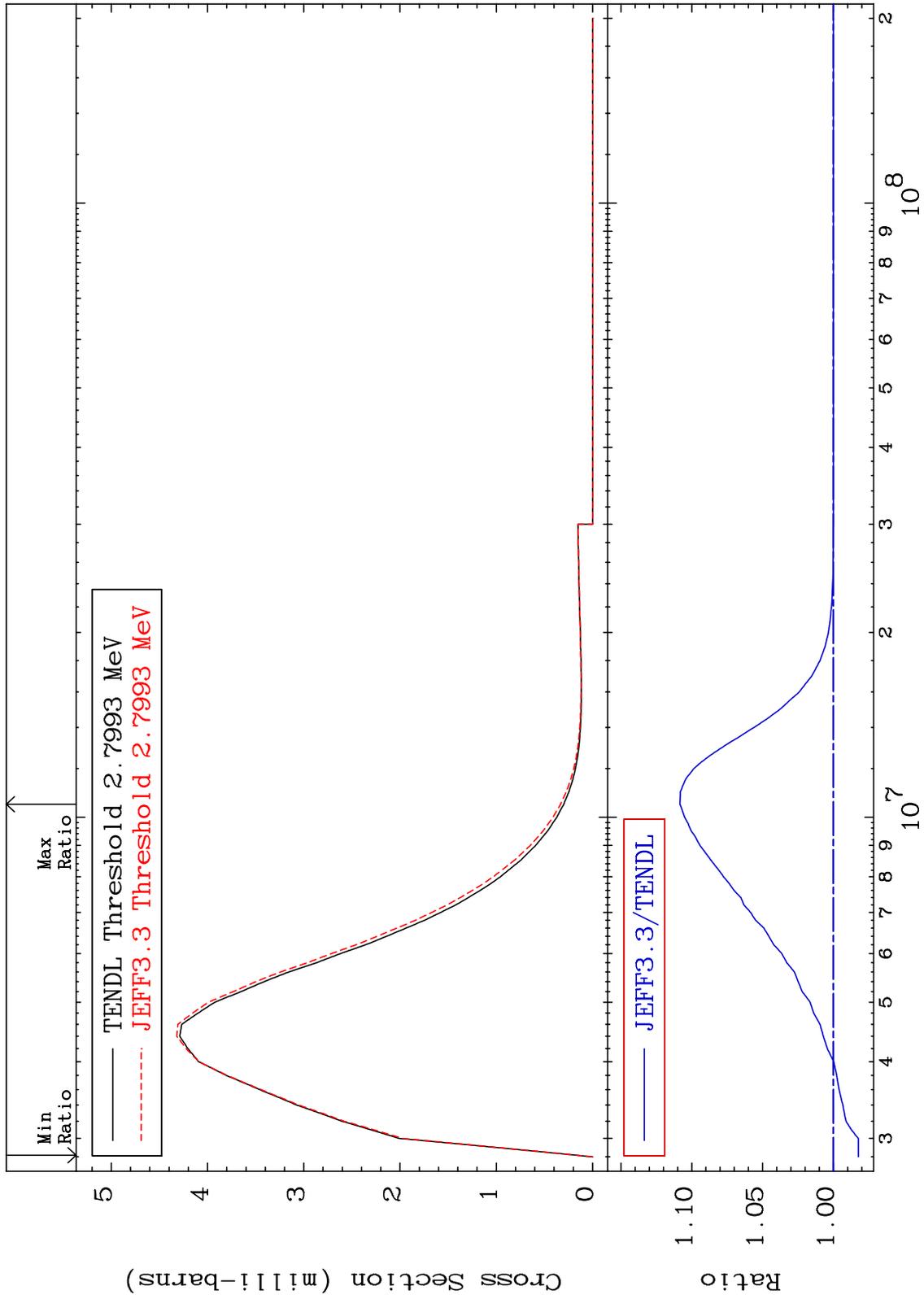
MAT 1928

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

19-K -40
-2.185 To 209.4 %



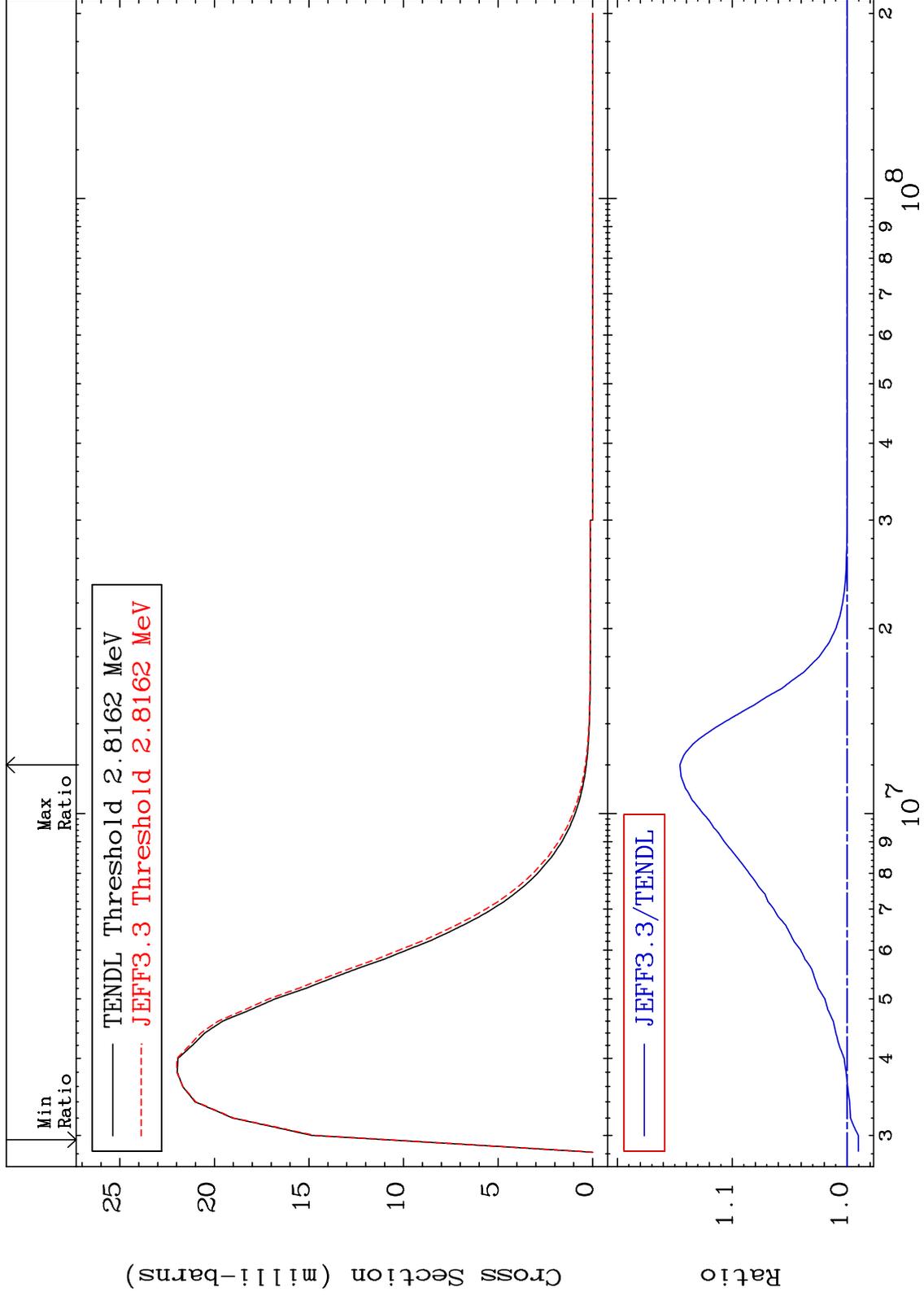
MAT 1928 MT= 68 (n, n') Level
 Cross Section 19-K -40
 -1.763 To 10.84 %



MAT 1928

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

19-K -40
-0.975 To 14.55 %



36

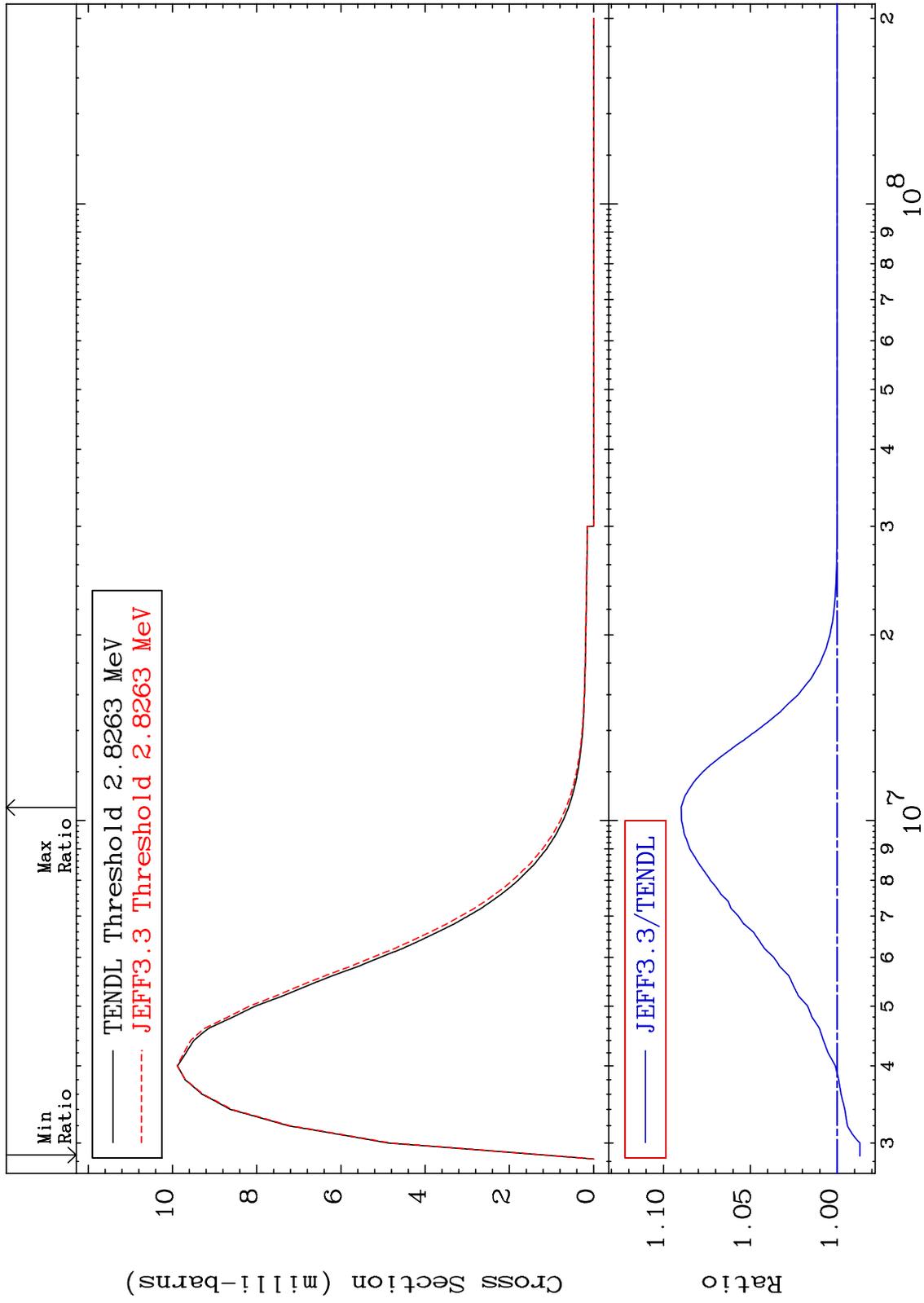
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-1.310 To 8.986 %



37

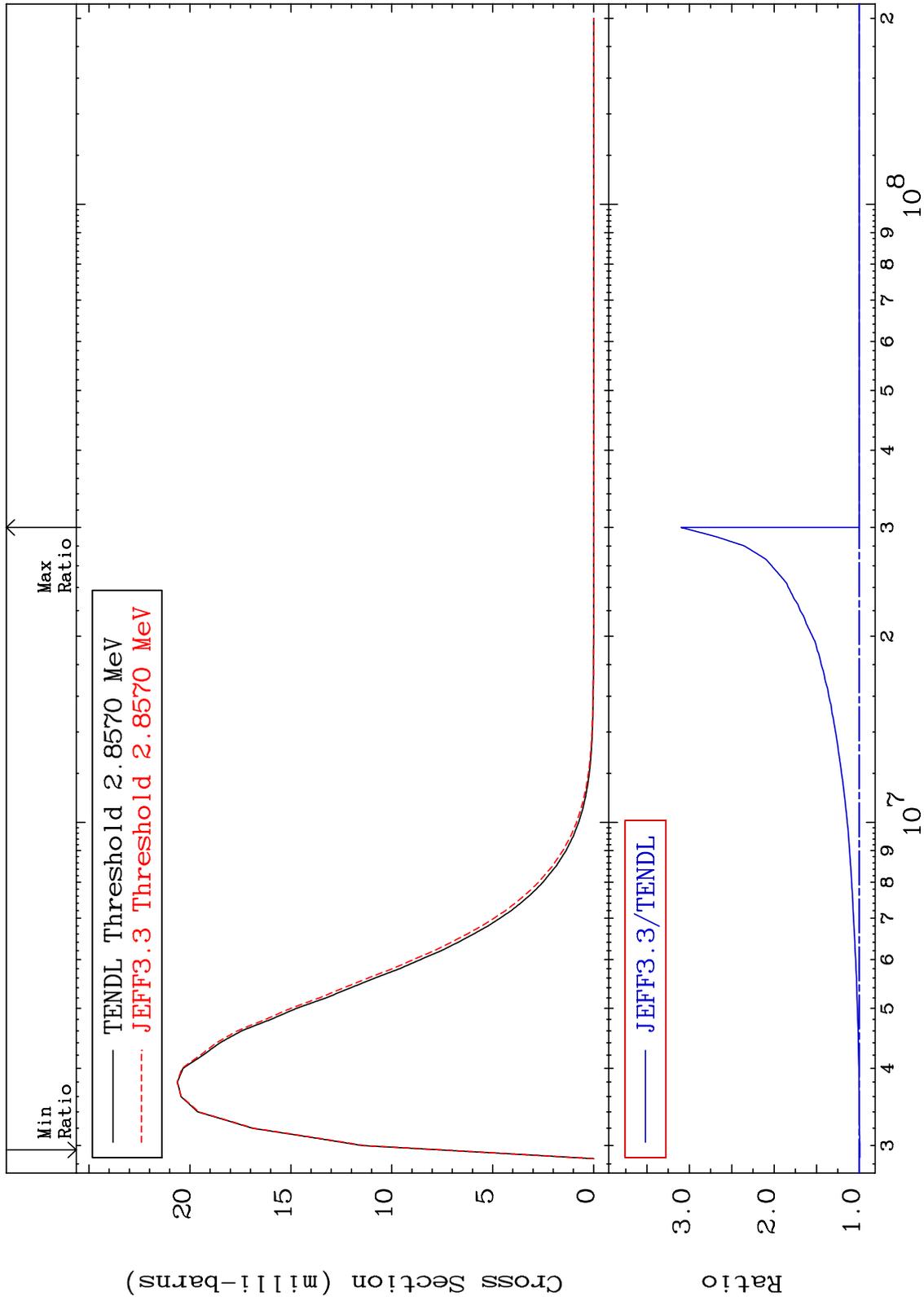
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-0.953 To 209.7 %



38

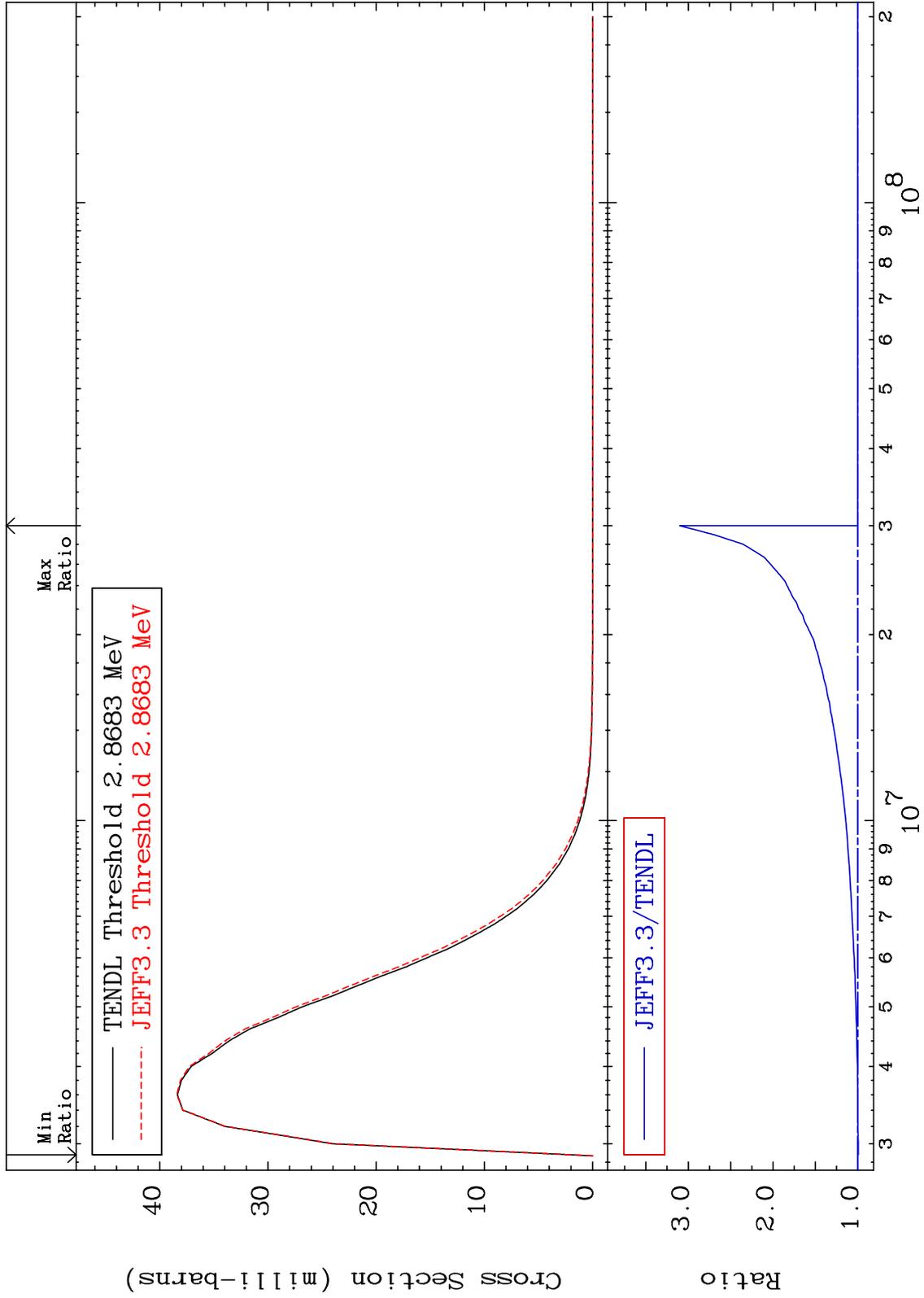
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-0.732 To 209.9 %



39

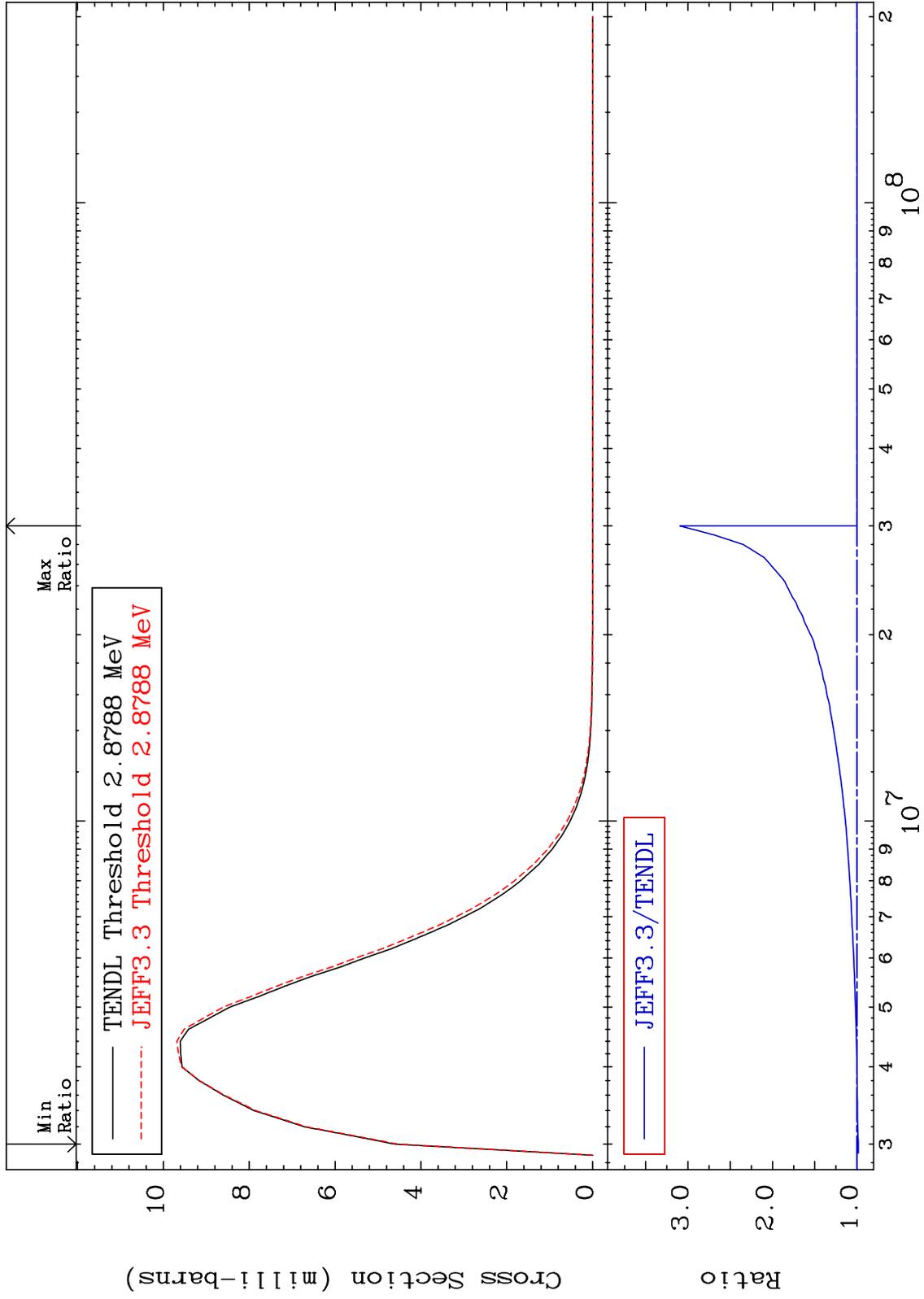
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-1.570 To 209.5 %

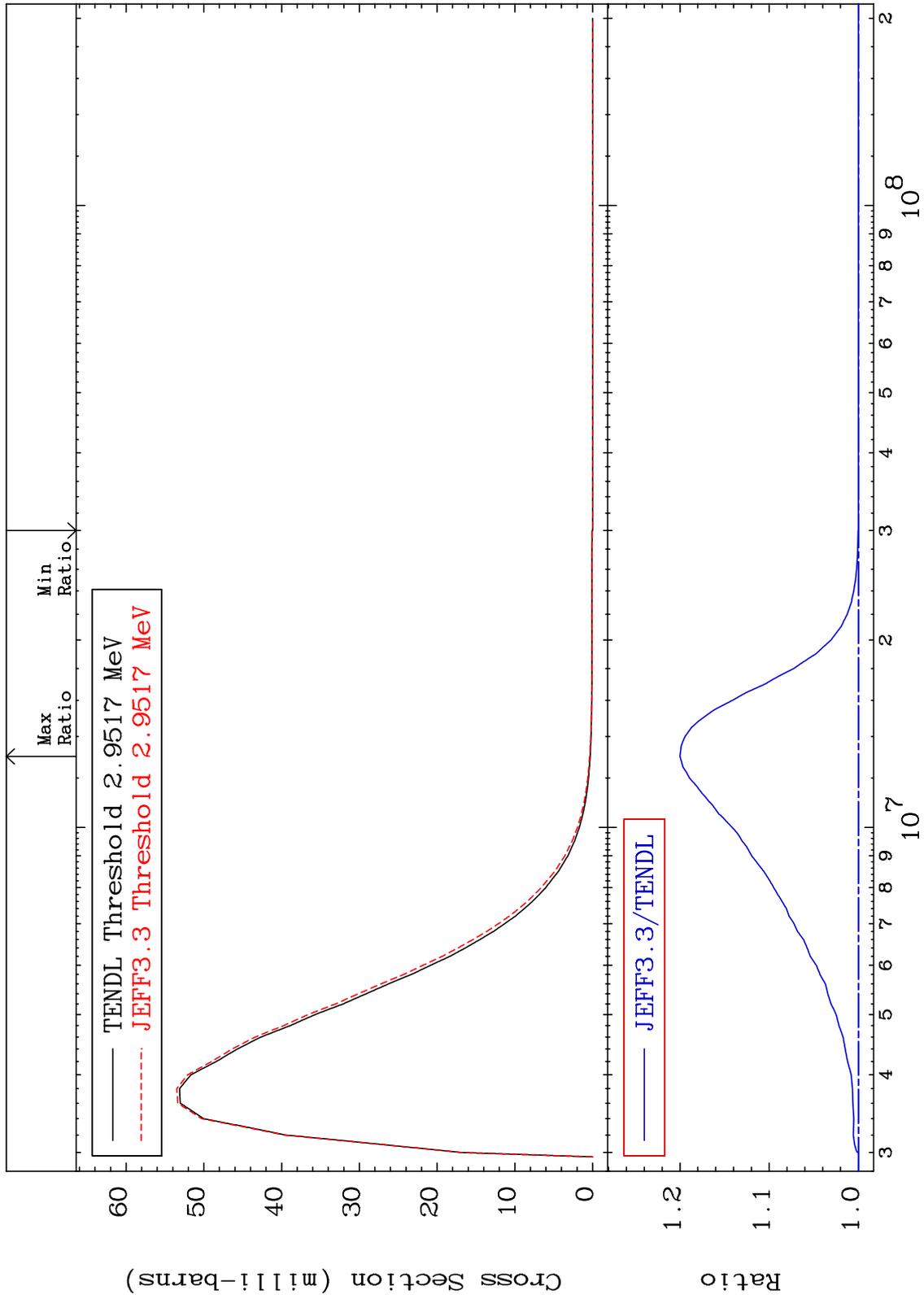


40

Incident Energy (eV)

19-K -40

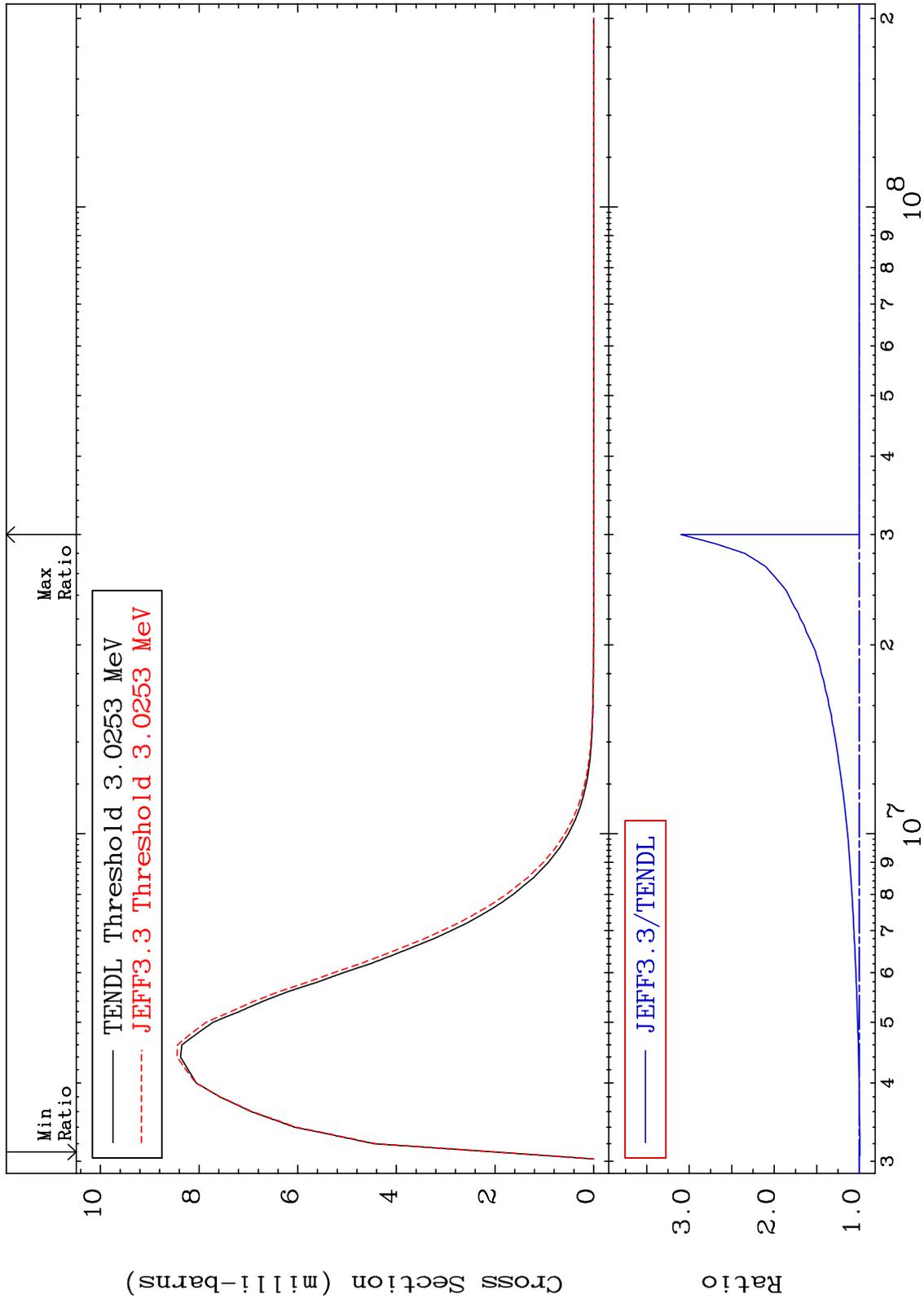
MAT 1928 MT= 74 (n, n') Level 19-K -40
 Cross Section 0.000 To 20.01 %



MAT 1928

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

19-K -40
-0.772 To 209.5 %



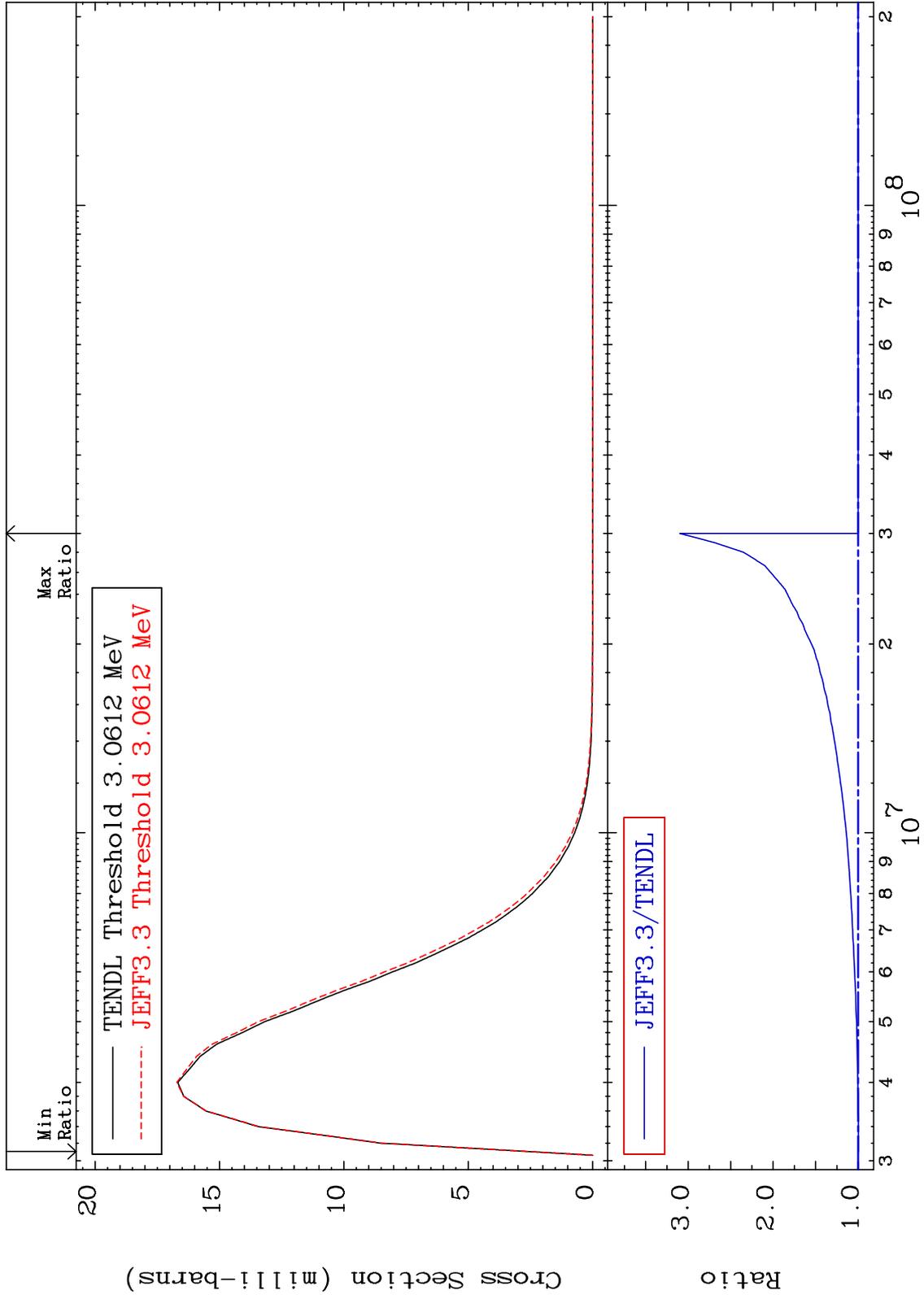
42

19-K -40

MAT 1928

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

19-K -40
-0.320 To 209.7 %



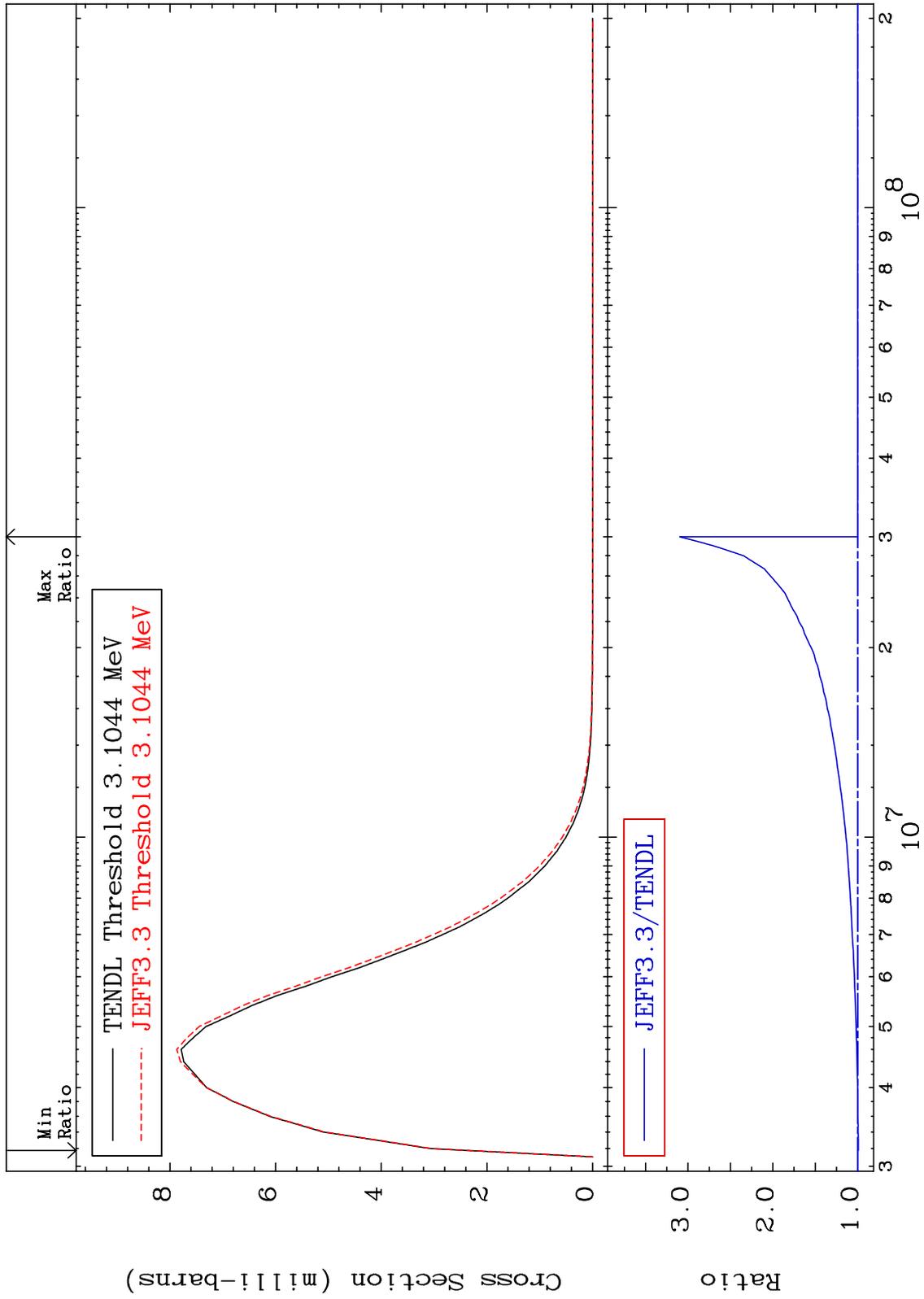
43

19-K -40

MAT 1928

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

19-K -40
-0.833 To 209.5 %



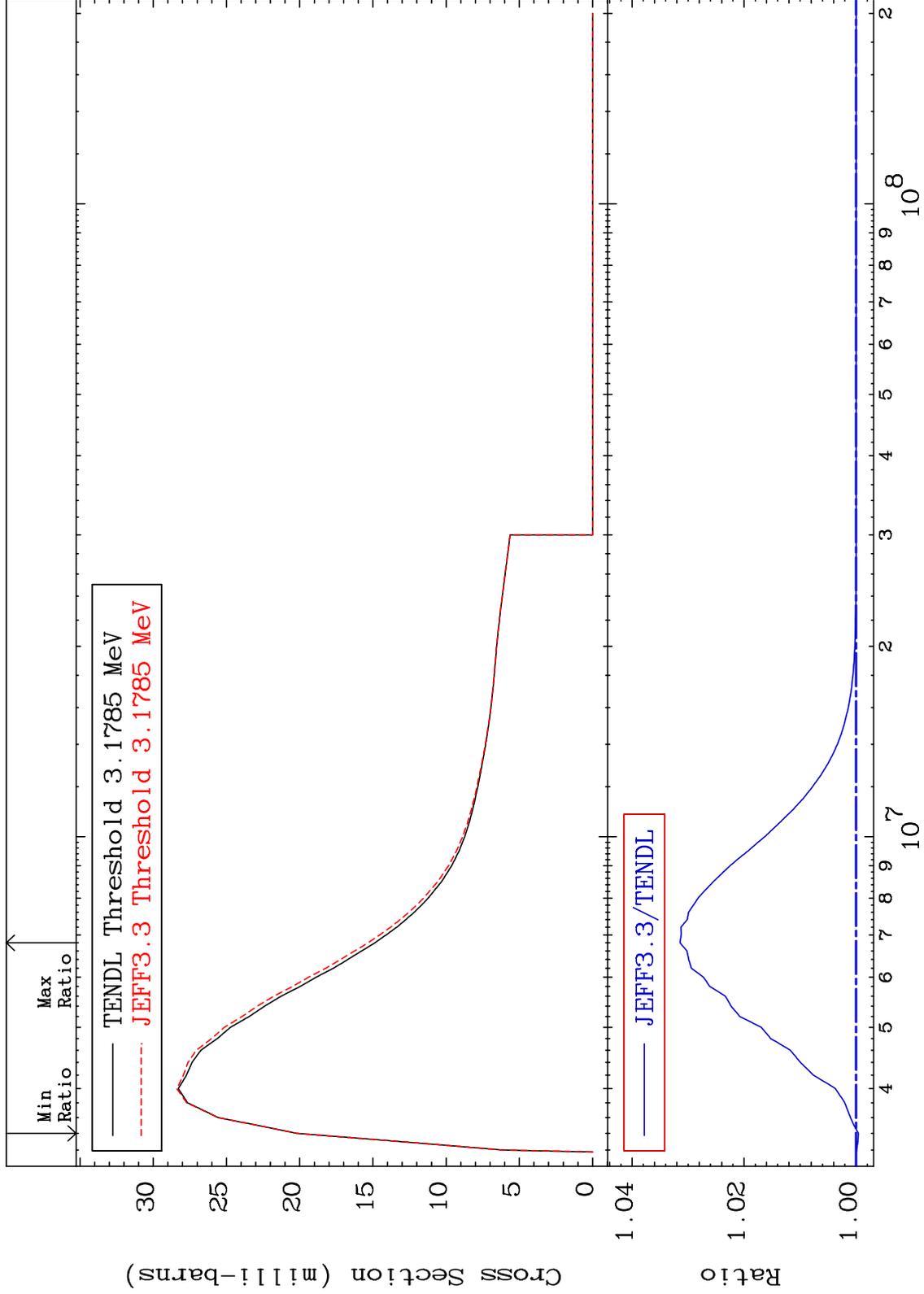
44

19-K -40

MAT 1928

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

19-K -40
-0.041 To 3.146 %



45

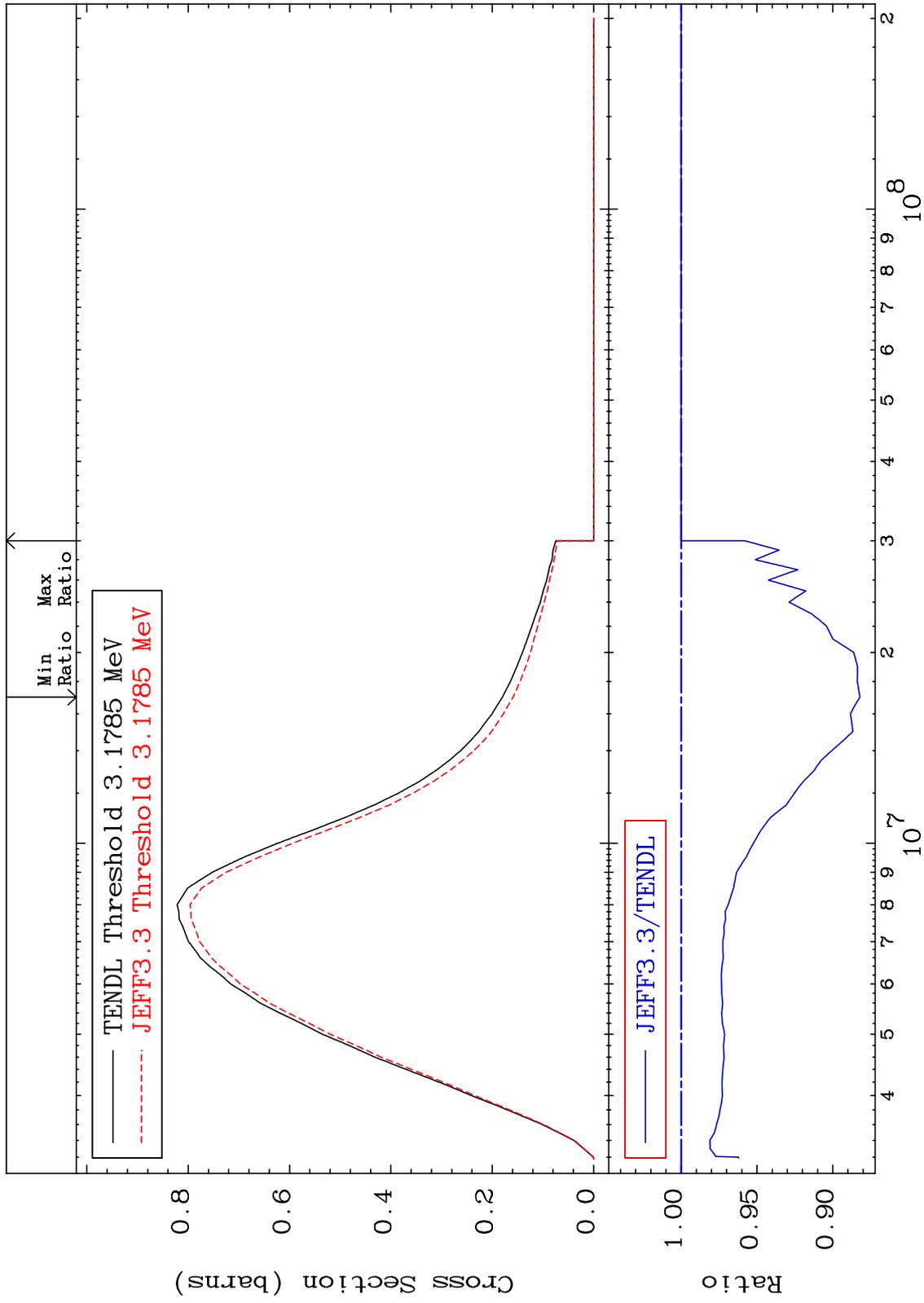
Incident Energy (eV)

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

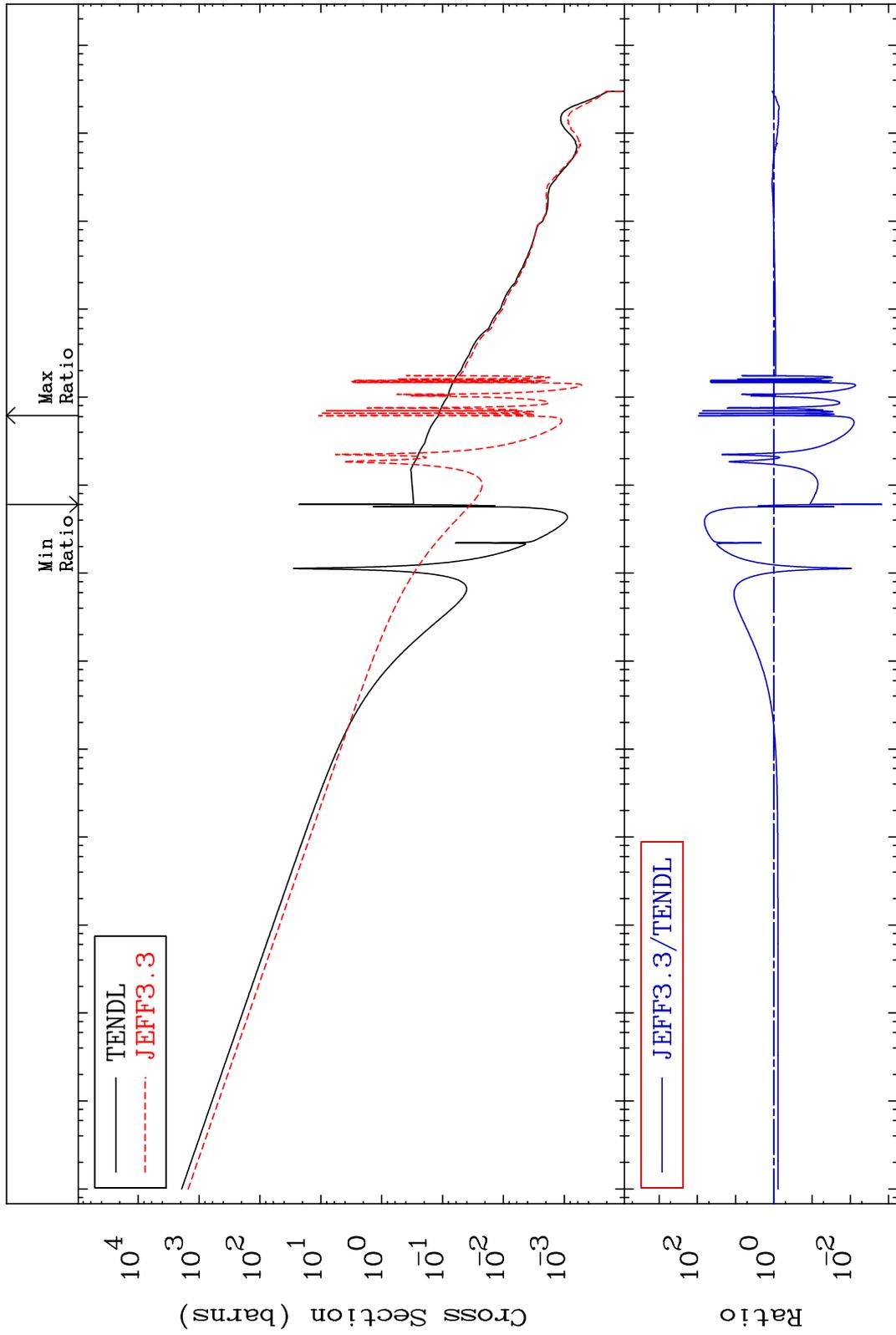
MAT 1928

(n, γ)

19-K -40

Cross Section

-99.85 To 9116. %



47

Incident Energy (eV)

19-K -40

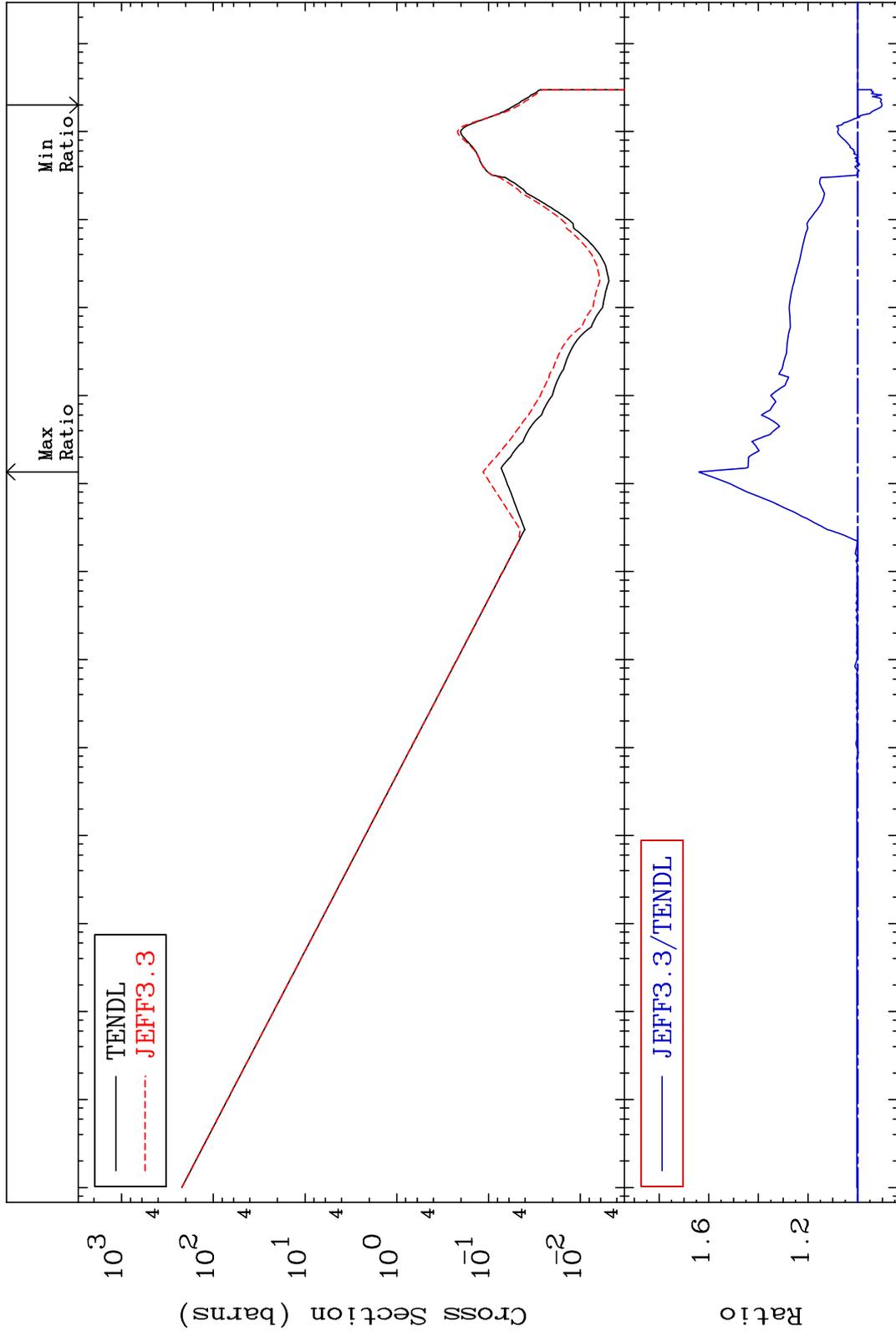
MAT 1928

(n,p)

19-K -40

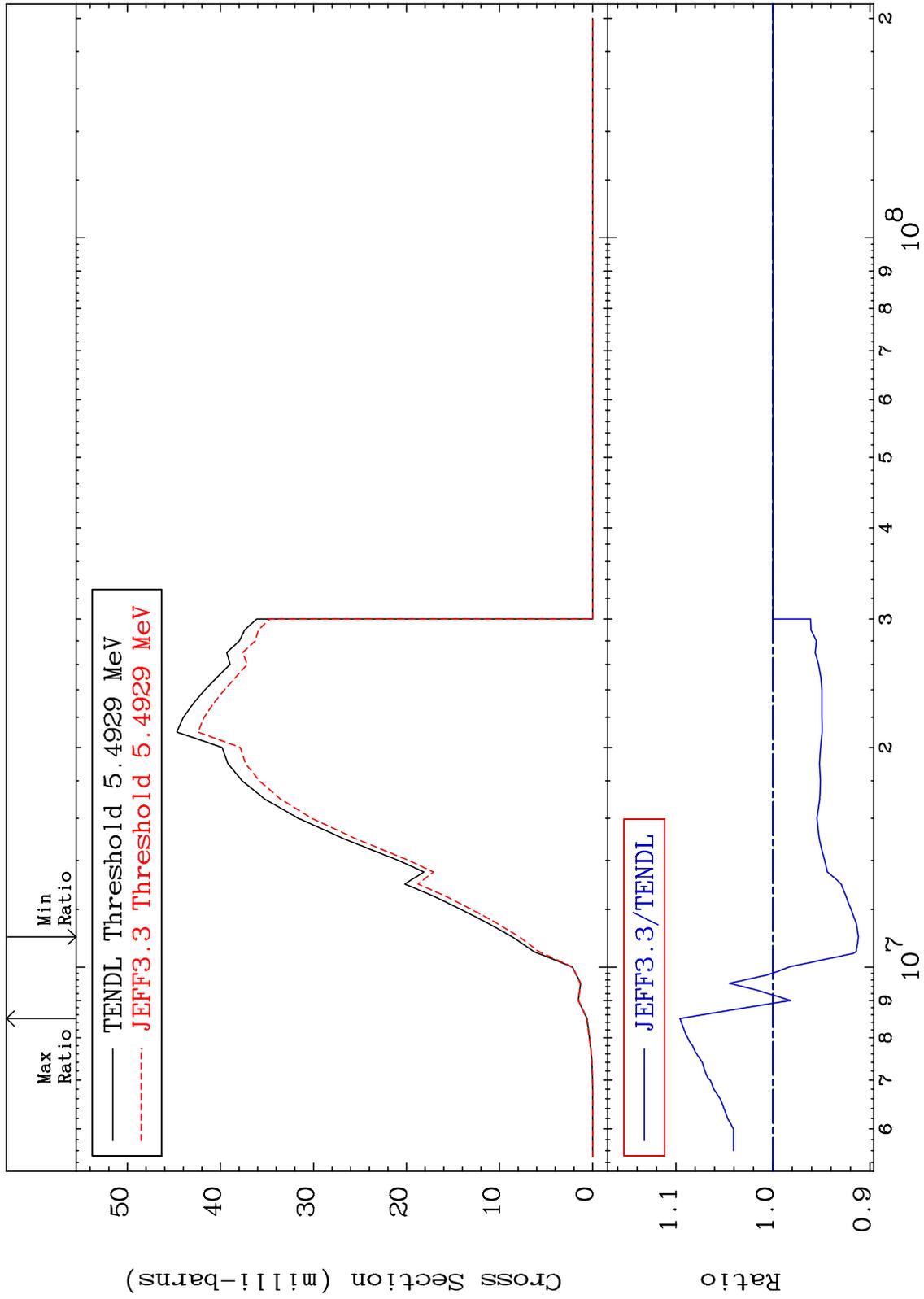
Cross Section

-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

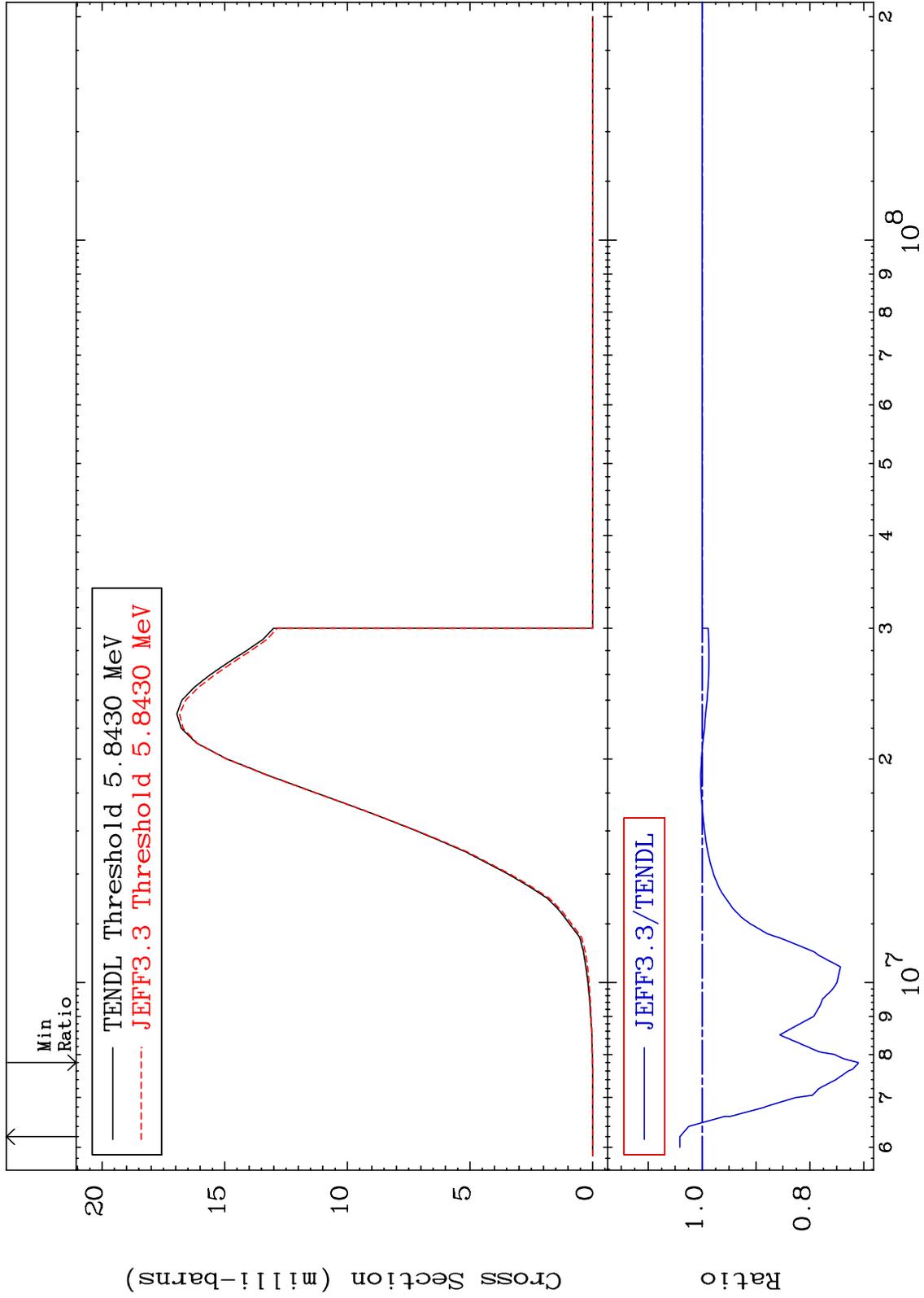
MAT 1928

(n, t)

19-K -40

Cross Section

-29.01 To 4.108 %



50

Incident Energy (eV)

19-K -40

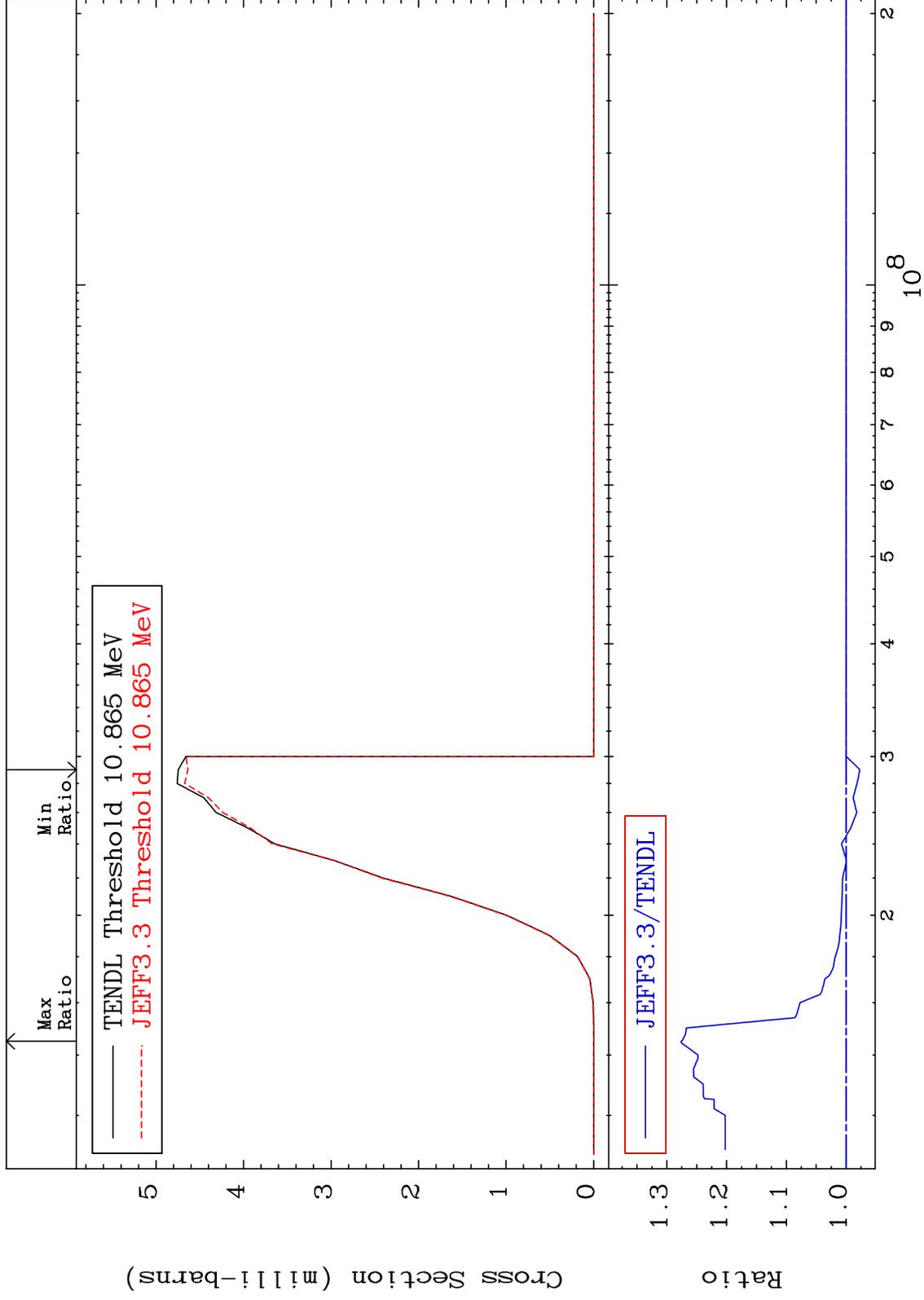
MAT 1928

(n, He-3)

19-K -40

Cross Section

-2.316 To 27.61 %



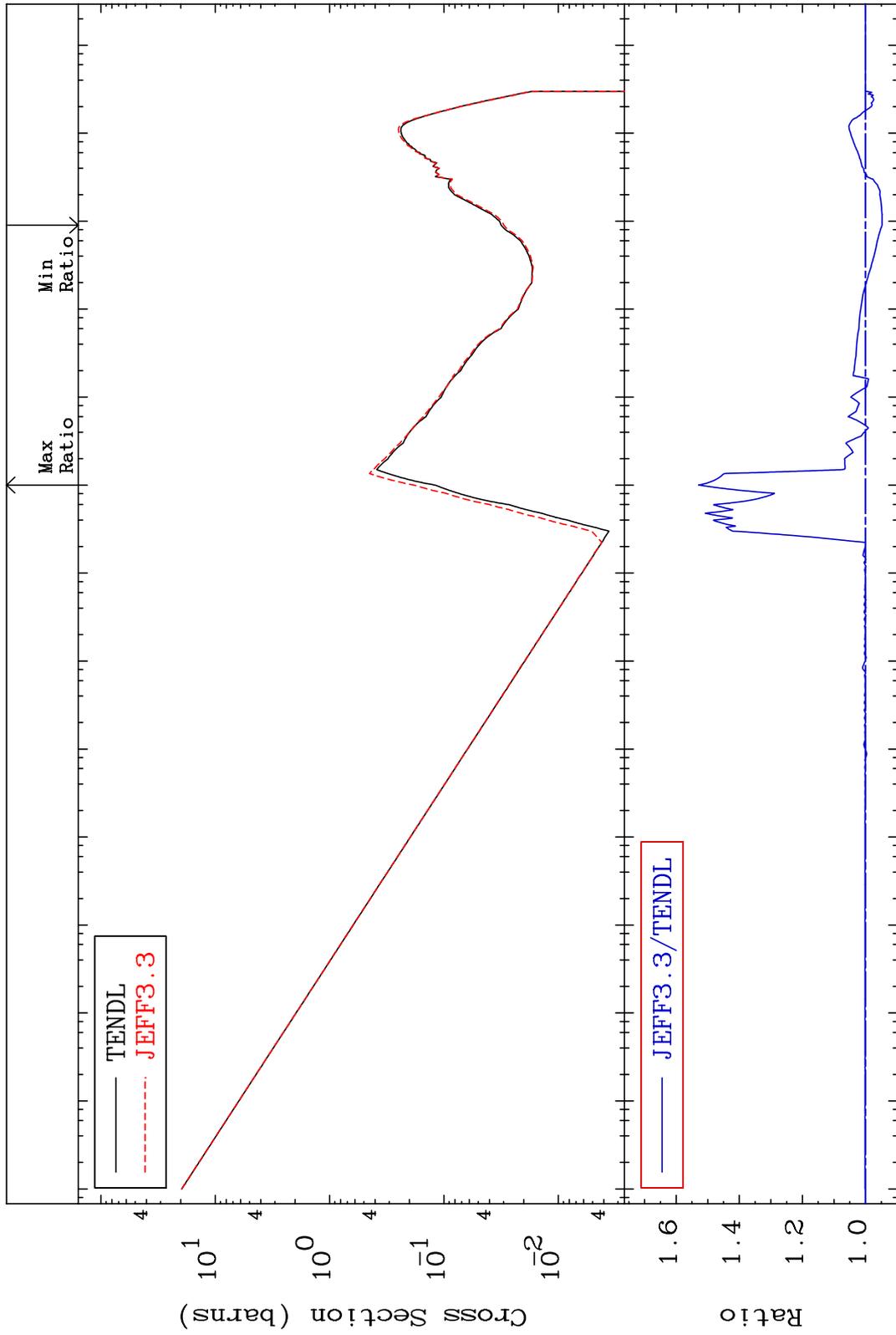
MAT 1928

(n, α)

19-K -40

Cross Section

-5.241 To 52.87 %



52

Incident Energy (eV)

19-K -40

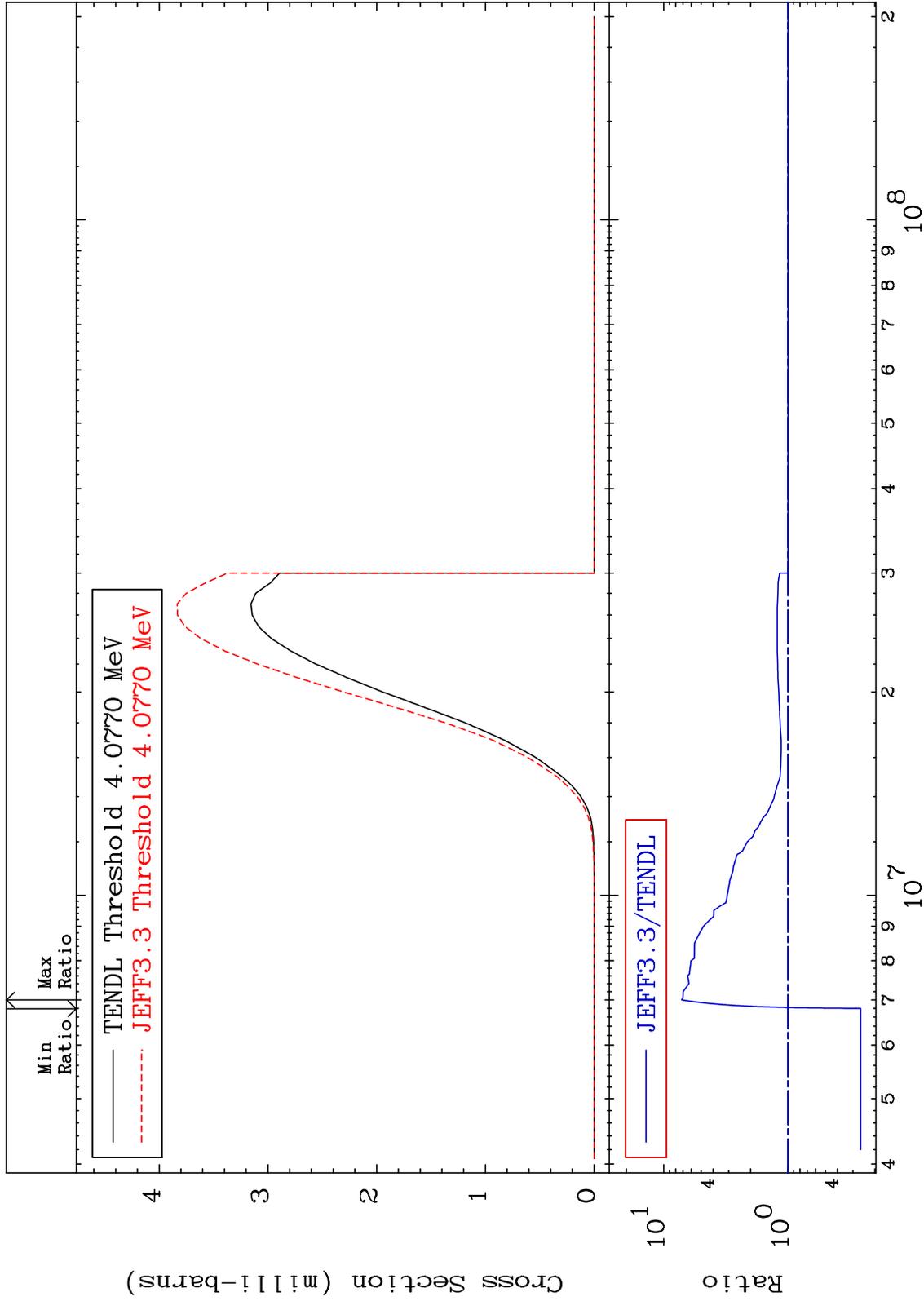
MAT 1928

(n, 2α)

19-K -40

Cross Section

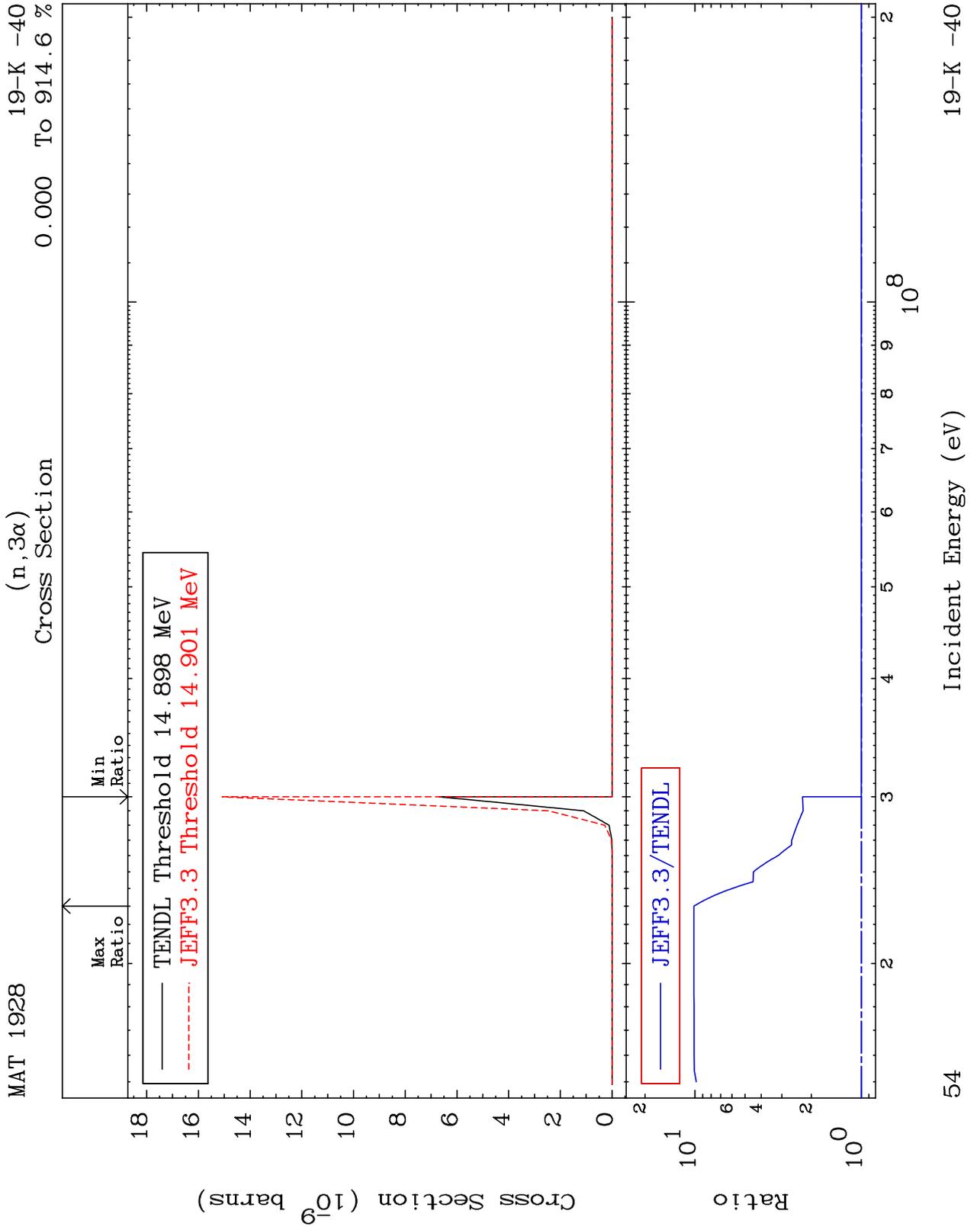
-74.03 To 615.6 %



53

Incident Energy (eV)

19-K -40



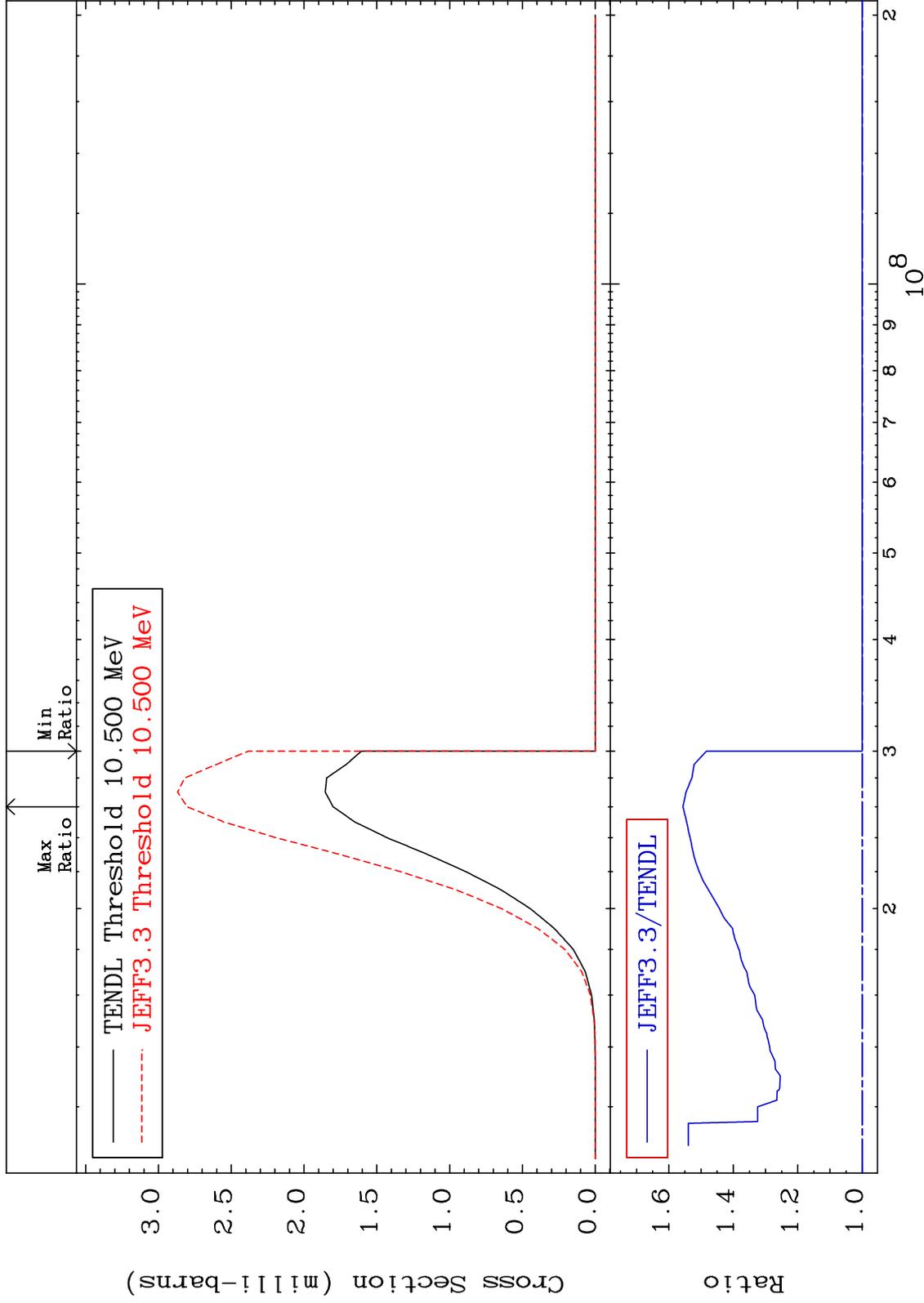
MAT 1928

(n,2p)

Cross Section

0.000 To 55.62 %

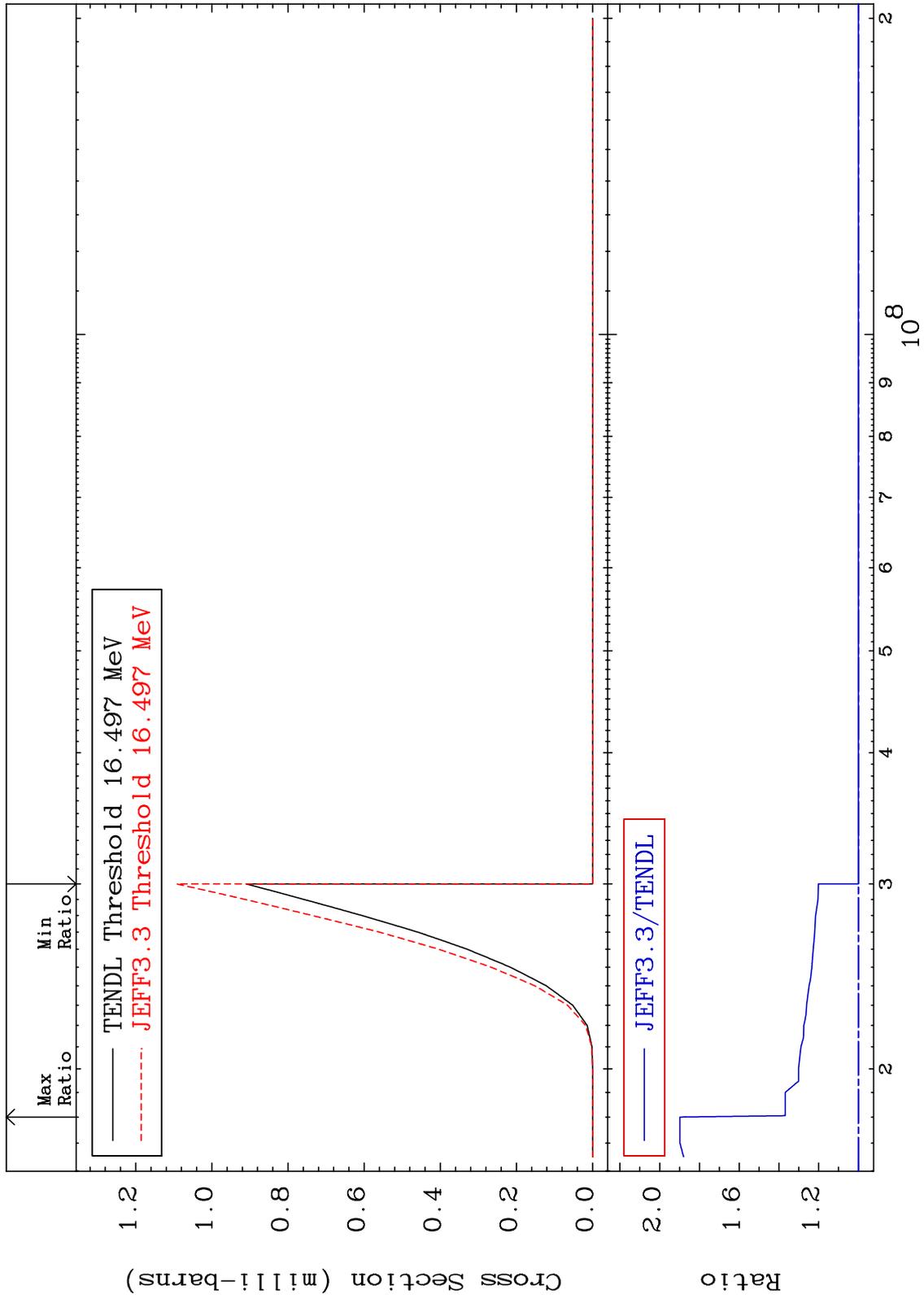
19-K -40



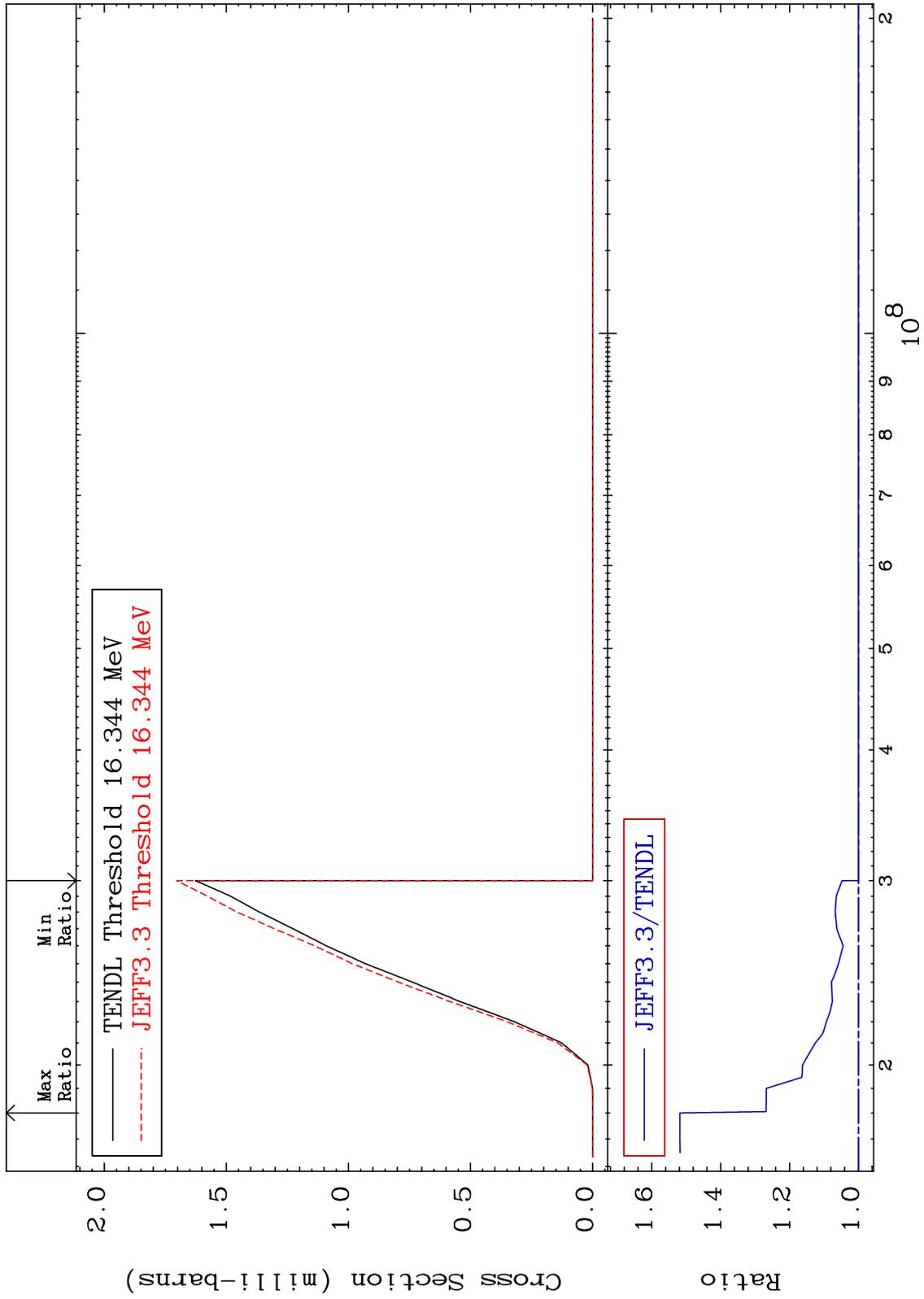
55

19-K -40

MAT 1928 (n,p) d 19-K -40
 Cross Section 0.000 To 89.81 %

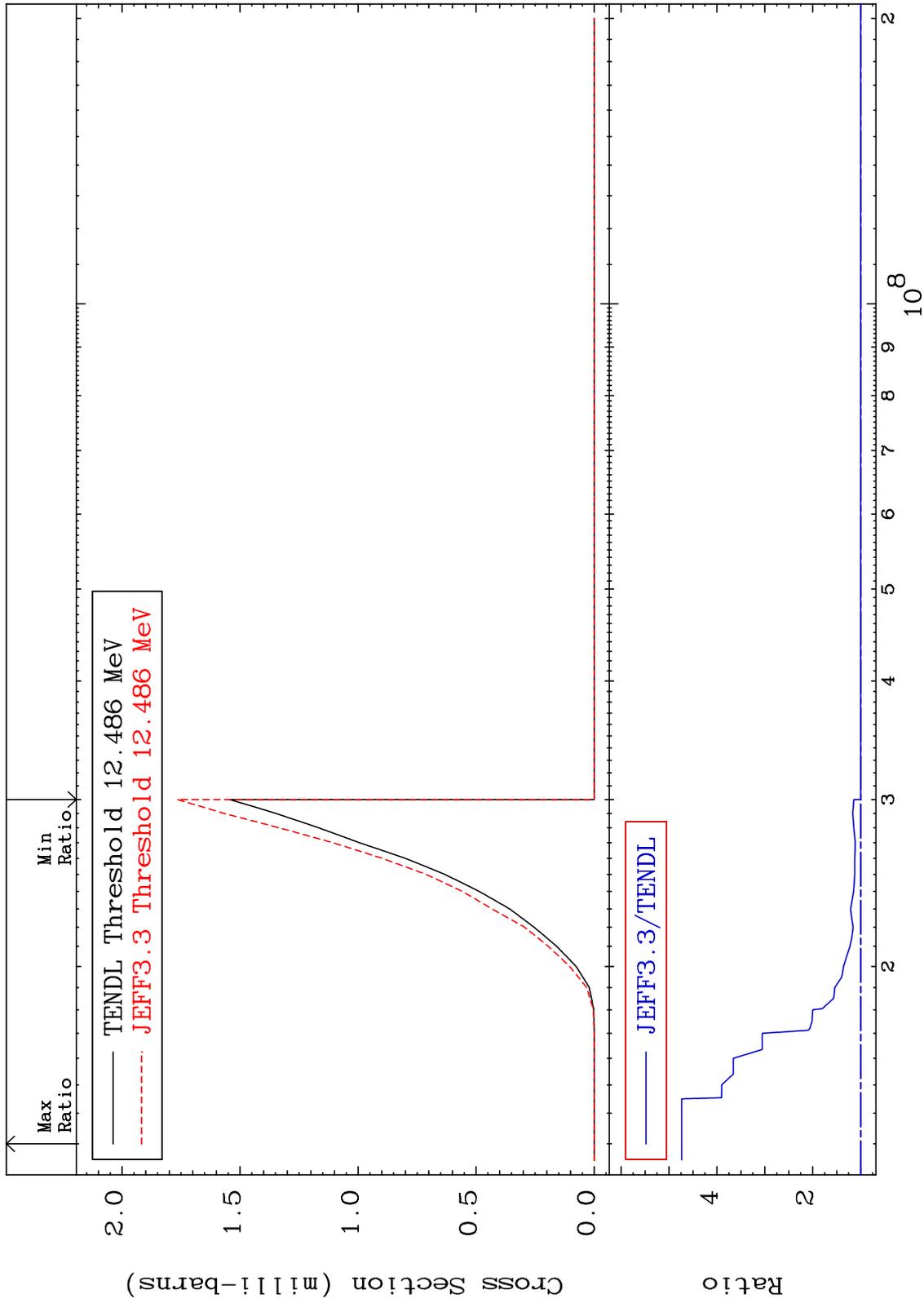


MAT 1928 (n,p) t 19-K -40
Cross Section 0.000 To 51.83 %



Incident Energy (eV) 19-K -40

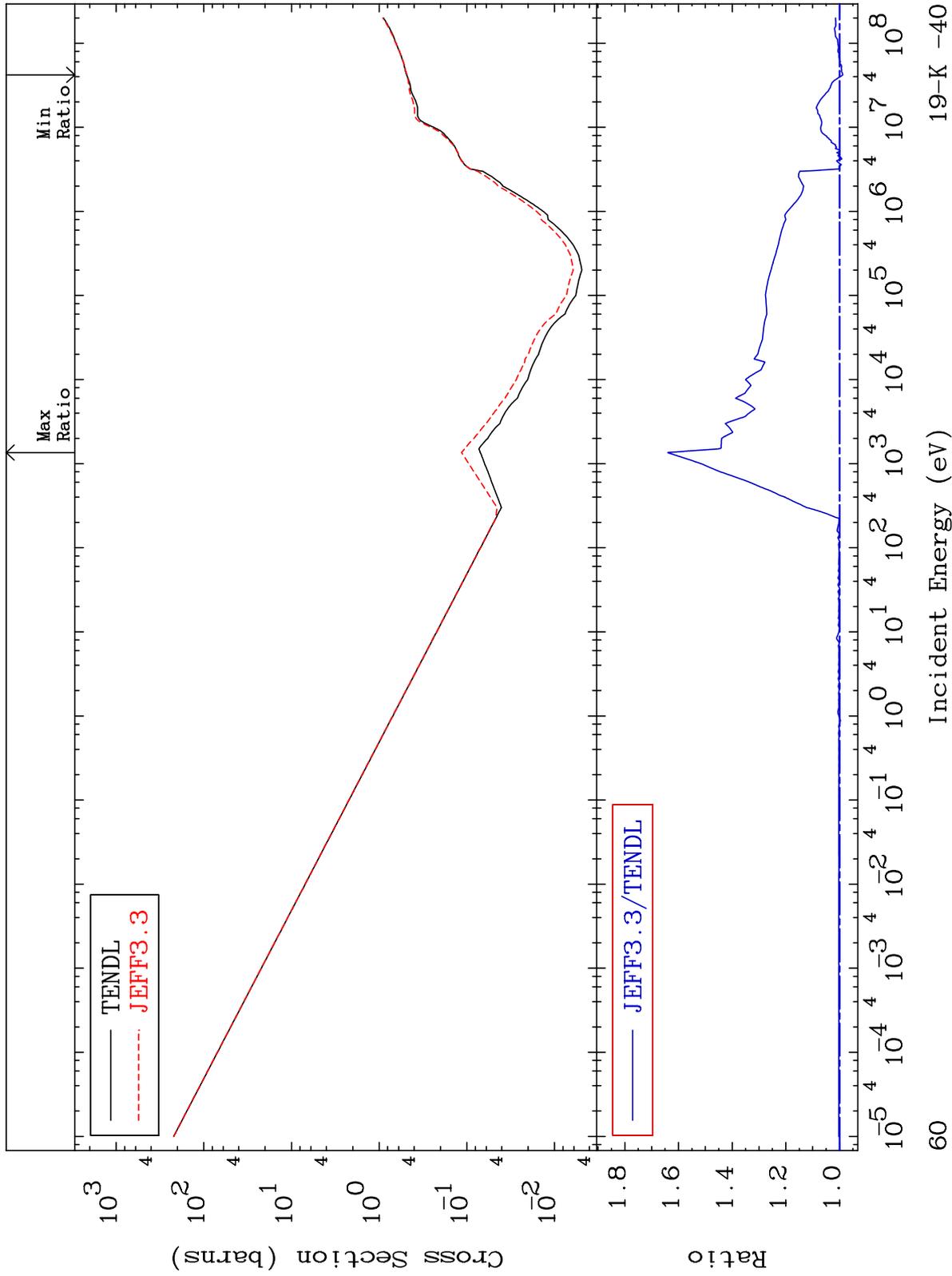
MAT 1928 (n,d) α Cross Section 19-K -40 To 373.5 %



MAT 1928

Hydrogen Production
Cross Section

19-K -40
-1.250 To 64.06 %



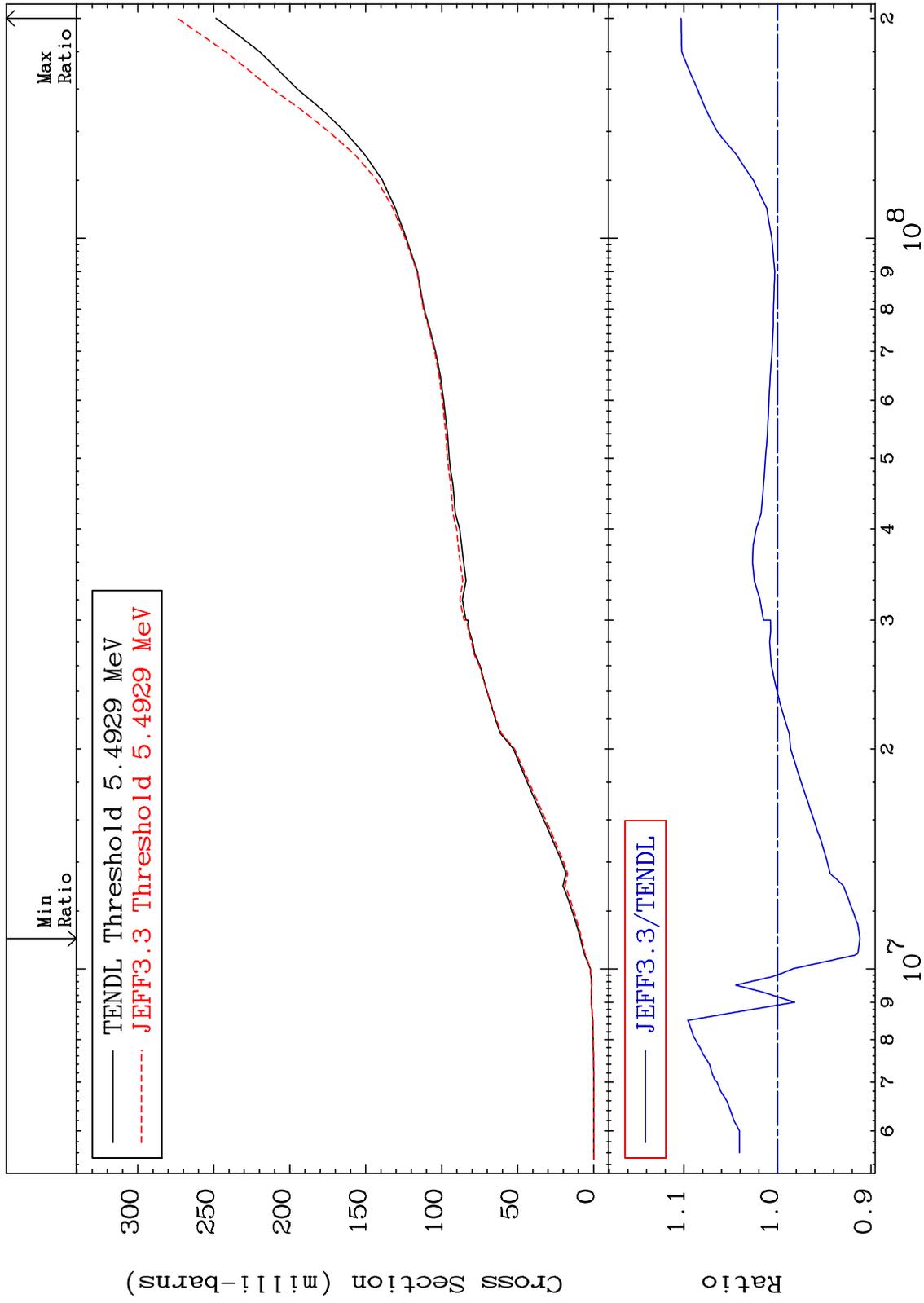
60

19-K -40

MAT 1928

Deuterium Production
Cross Section

19-K -40
-8.820 To 10.31 %



61

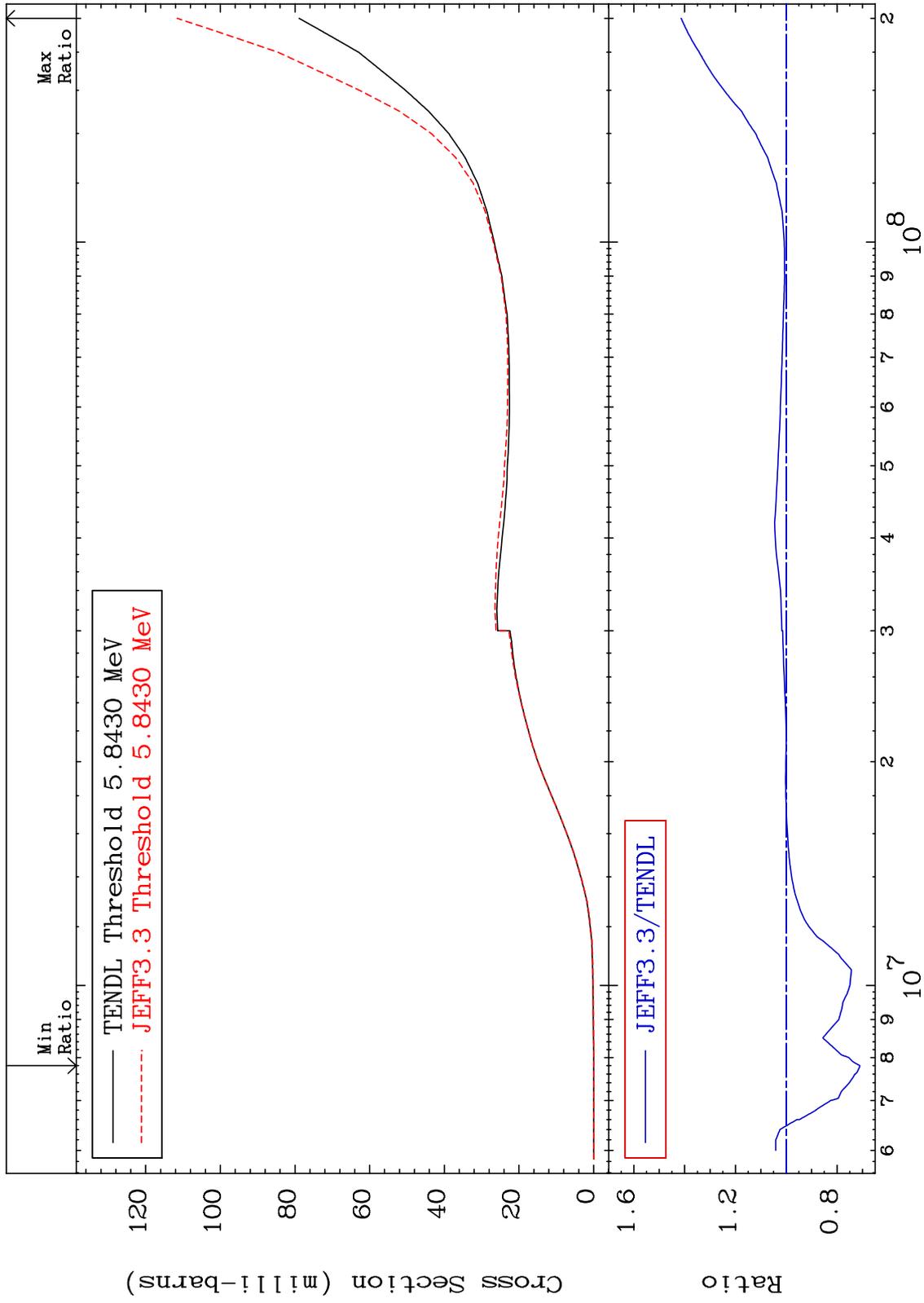
Incident Energy (eV)

19-K -40

MAT 1928

Tritium Production
Cross Section

19-K -40
-29.01 To 41.39 %



62

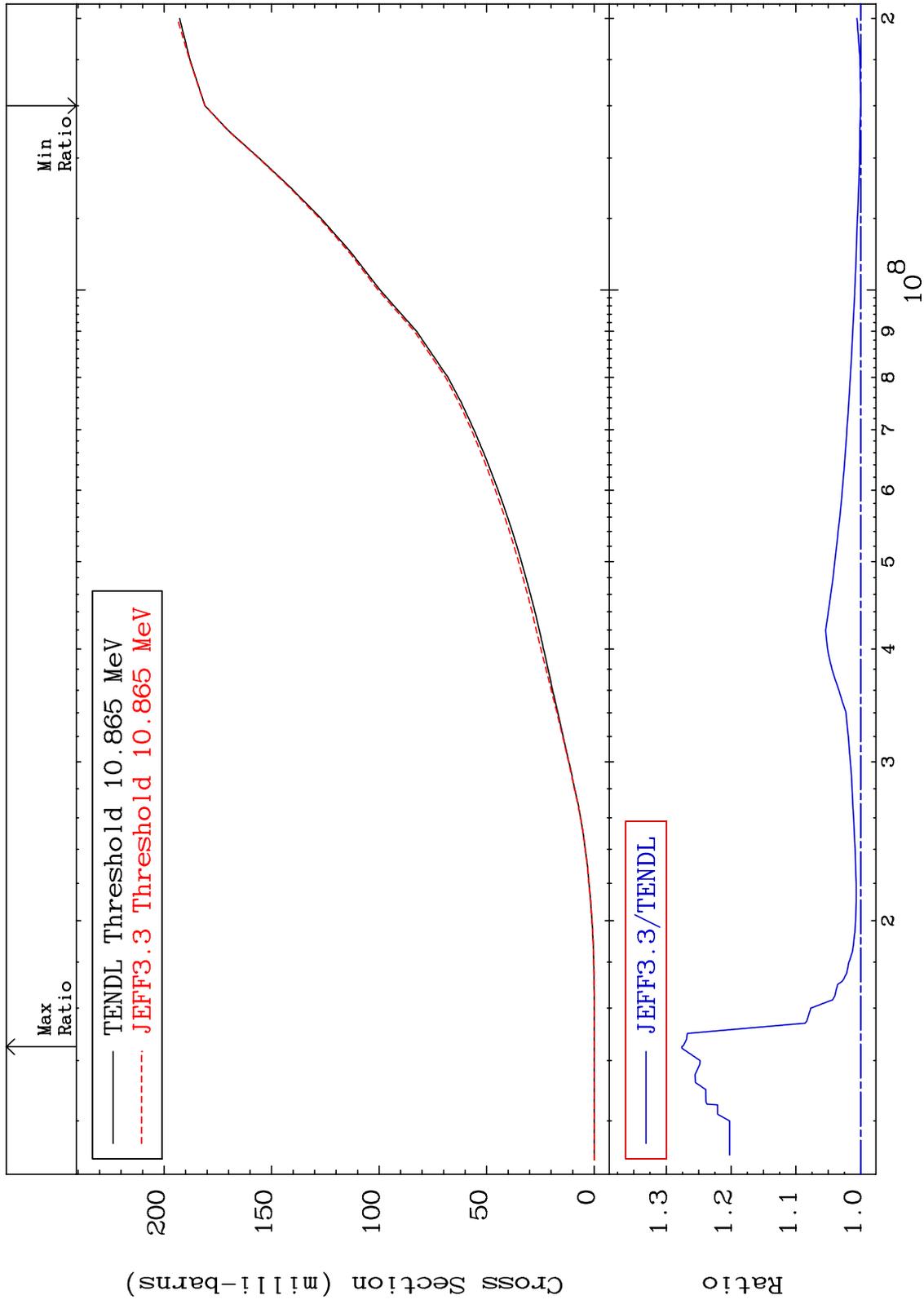
Incident Energy (eV)

19-K -40

MAT 1928

He-3 Production
Cross Section

19-K -40
0.005 To 27.61 %



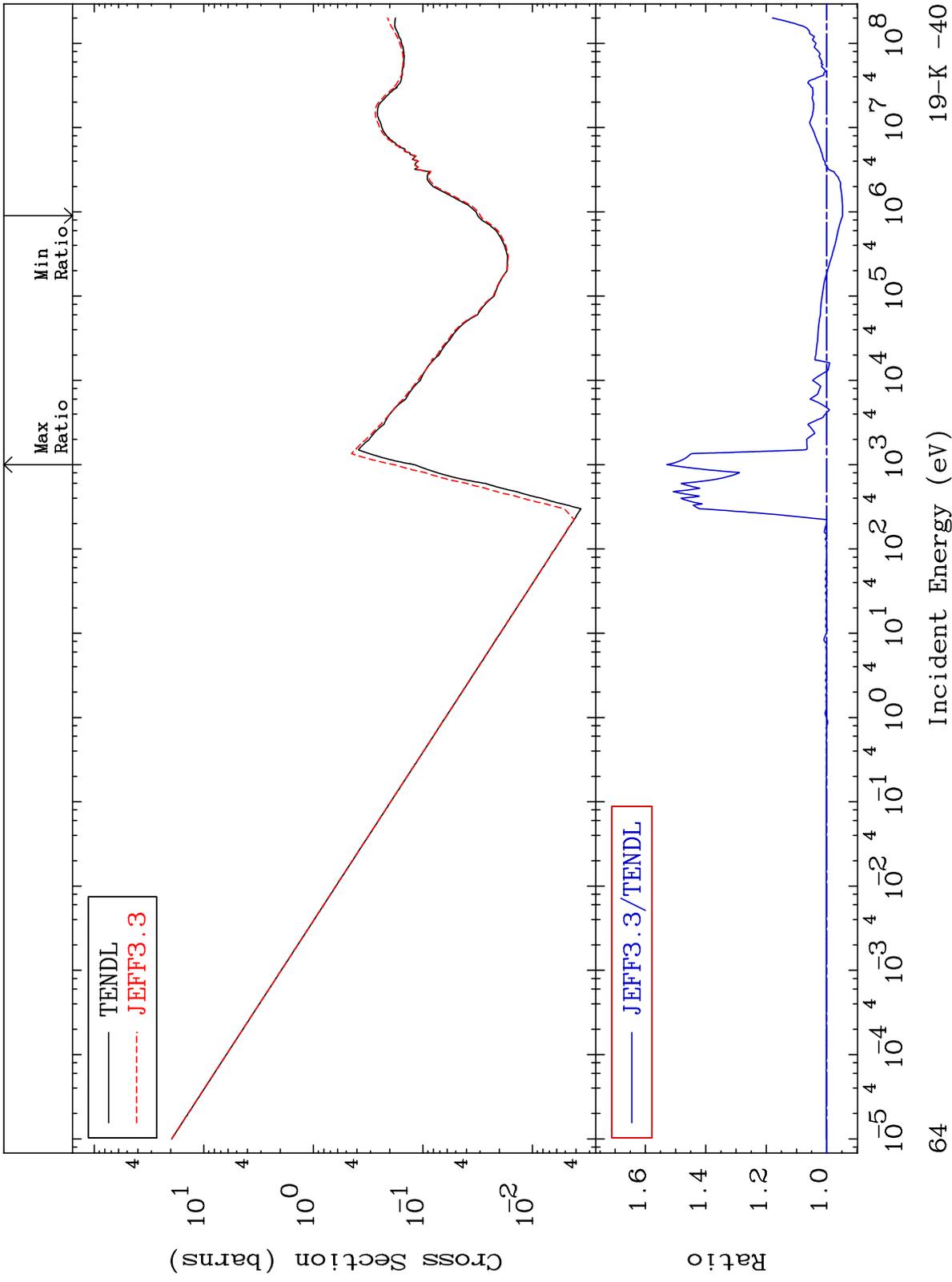
63

19-K -40

MAT 1928

He-4 Production
Cross Section

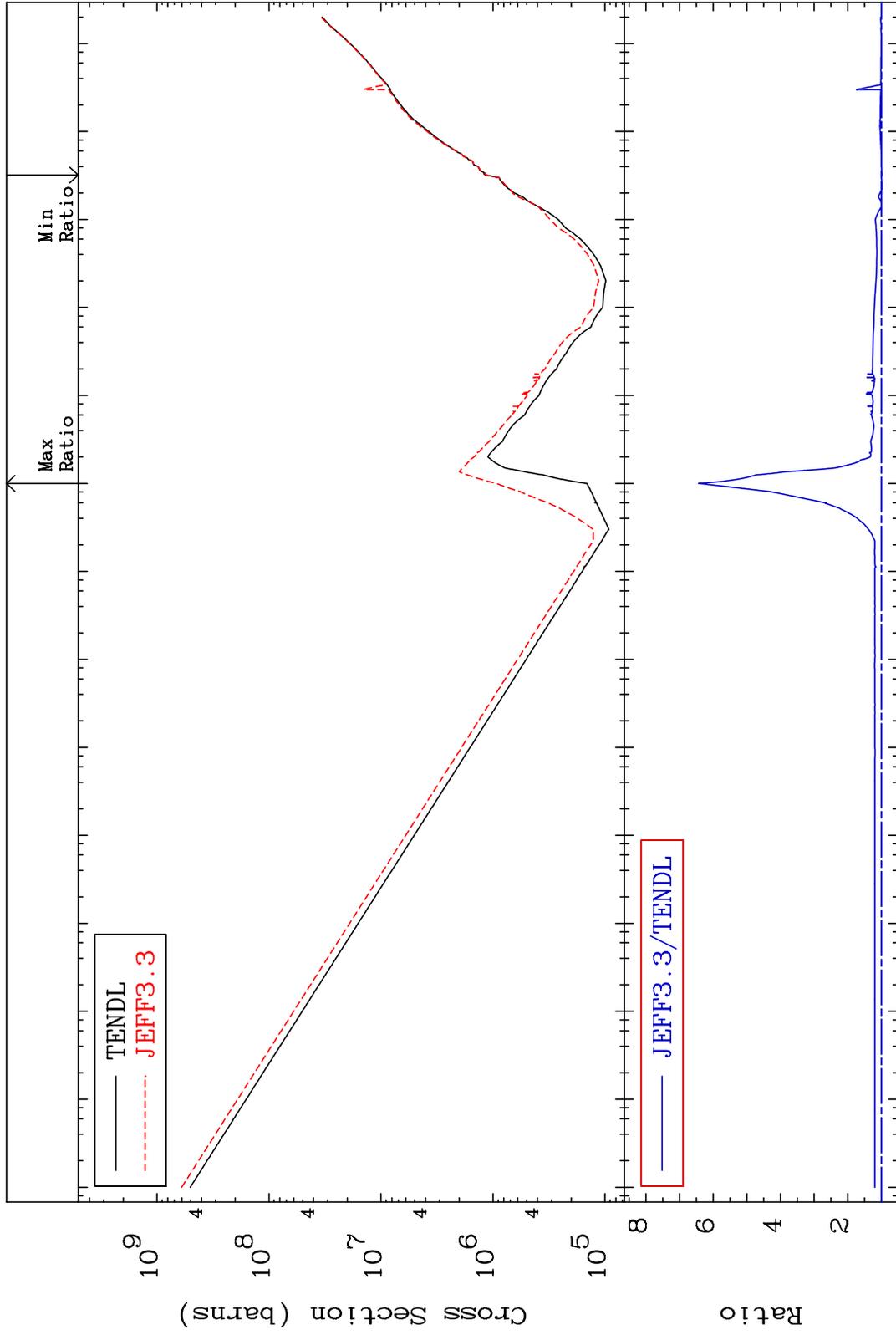
19-K -40
-5.241 To 52.87 %



MAT 1928

Kerma total (eV-barns)
Cross Section

19-K -40
-2.146 To 543.2 %



10⁹
10⁸
10⁷
10⁶
10⁵
8
6
4
2

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

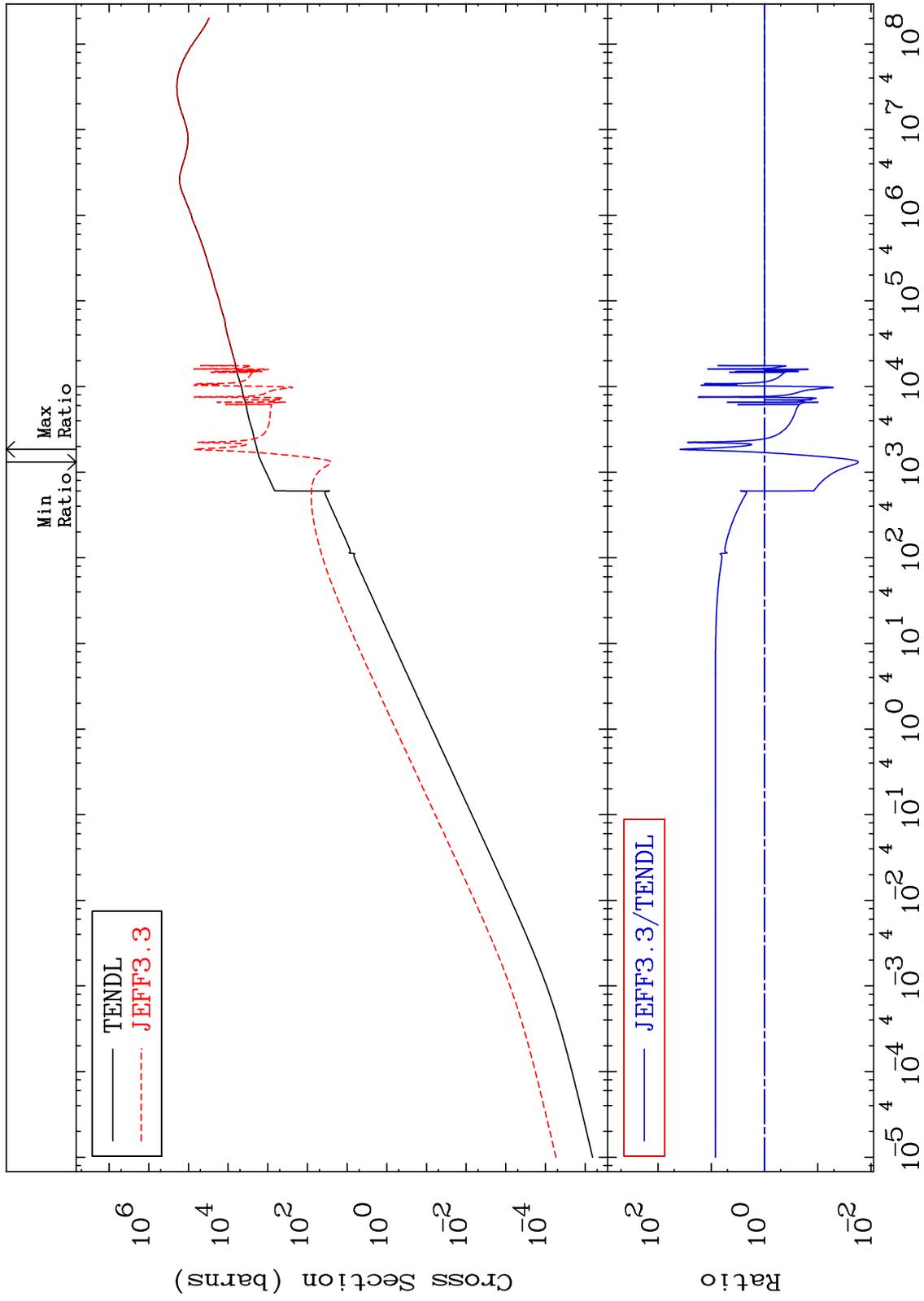
Incident Energy (eV)

19-K -40

MAT 1928

Kerma elastic
Cross Section

19-K -40
-98.27 To 3788. %



66

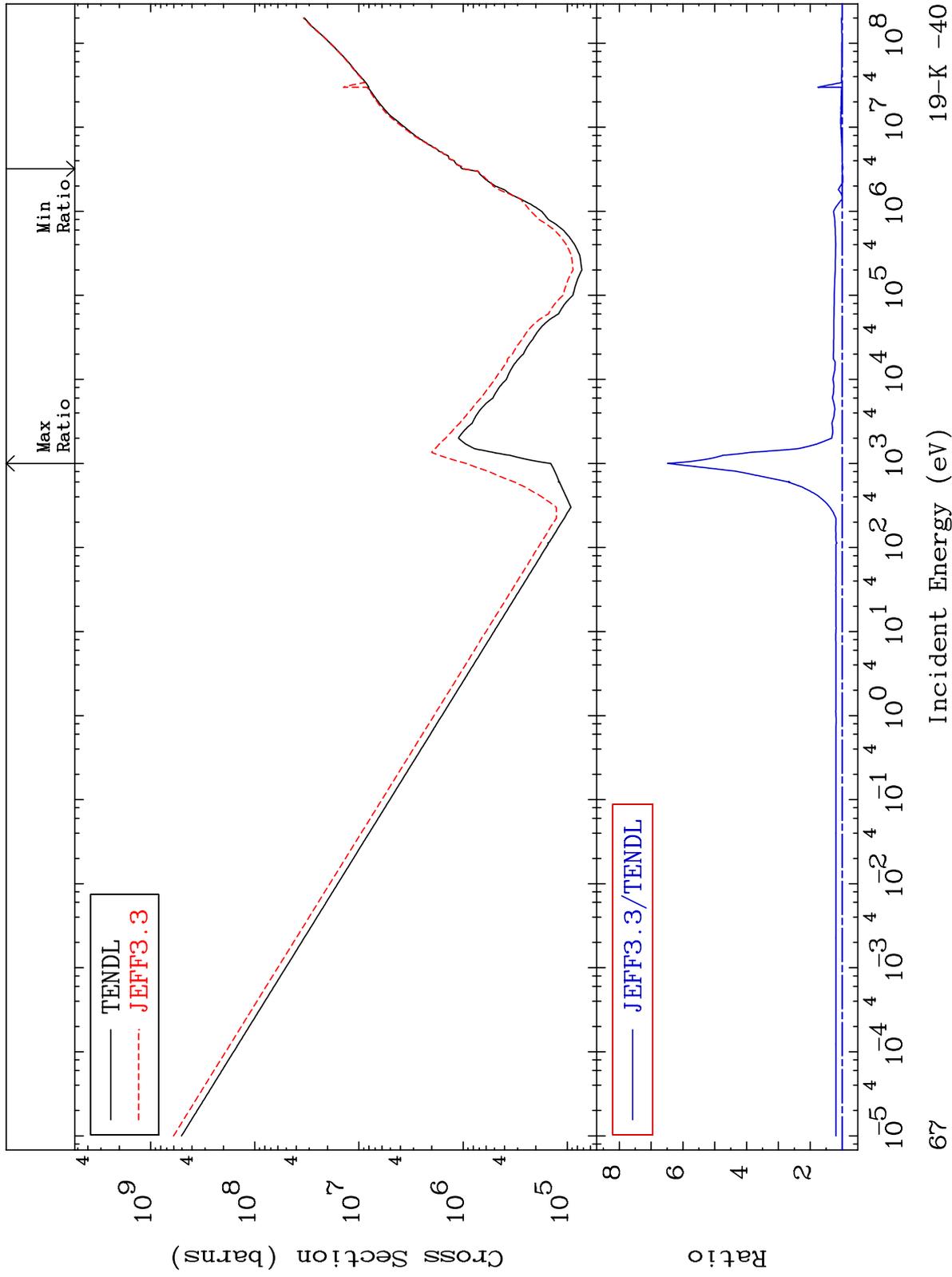
Incident Energy (eV)

19-K -40

MAT 1928

Kerma non-elastic (all but mt2)
Cross Section

19-K -40
-2.481 To 548.1 %



67

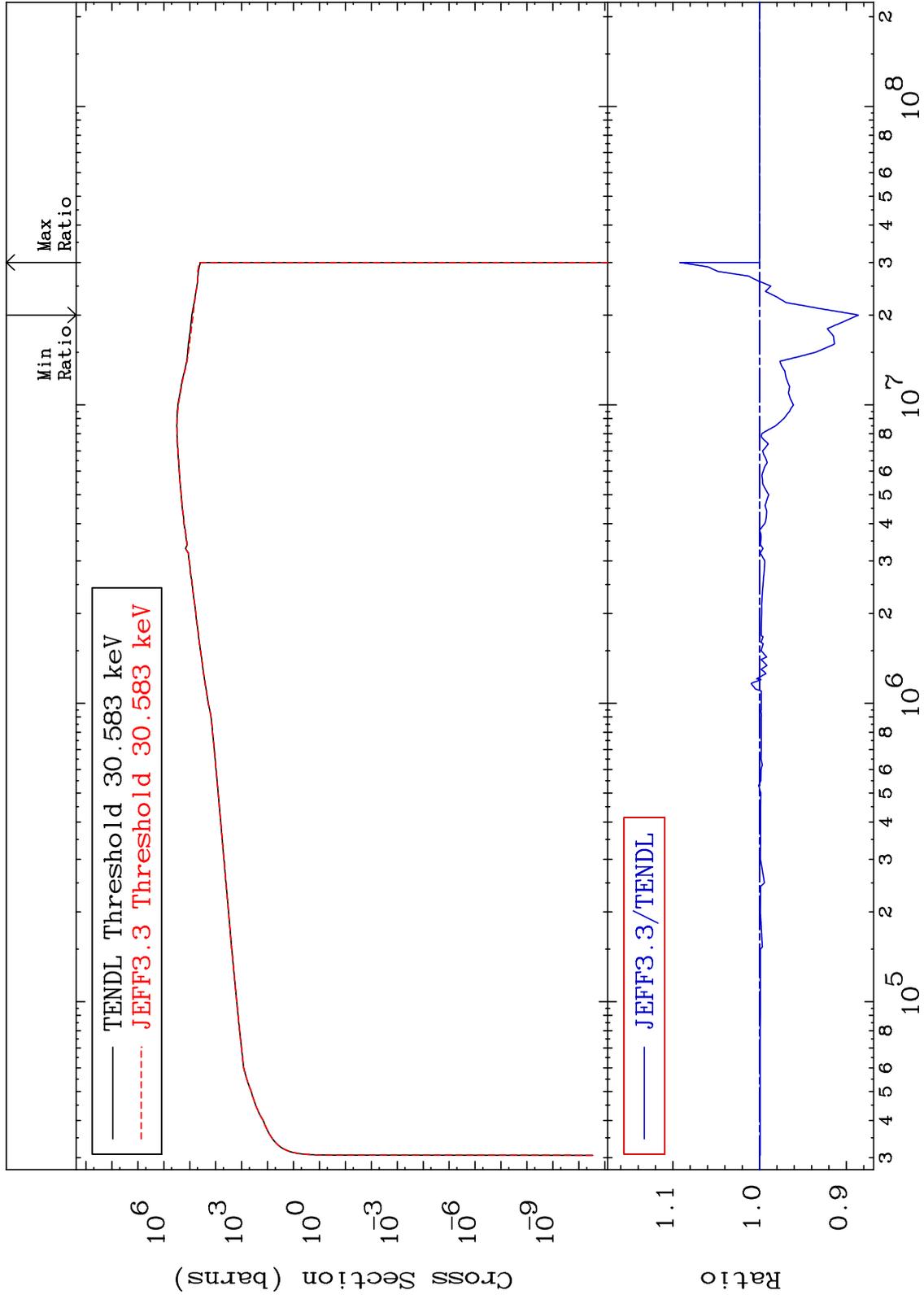
Incident Energy (eV)

19-K -40

MAT 1928

Kerma inelastic (mt51-91)
Cross Section

19-K -40
-11.39 To 9.180 %



68

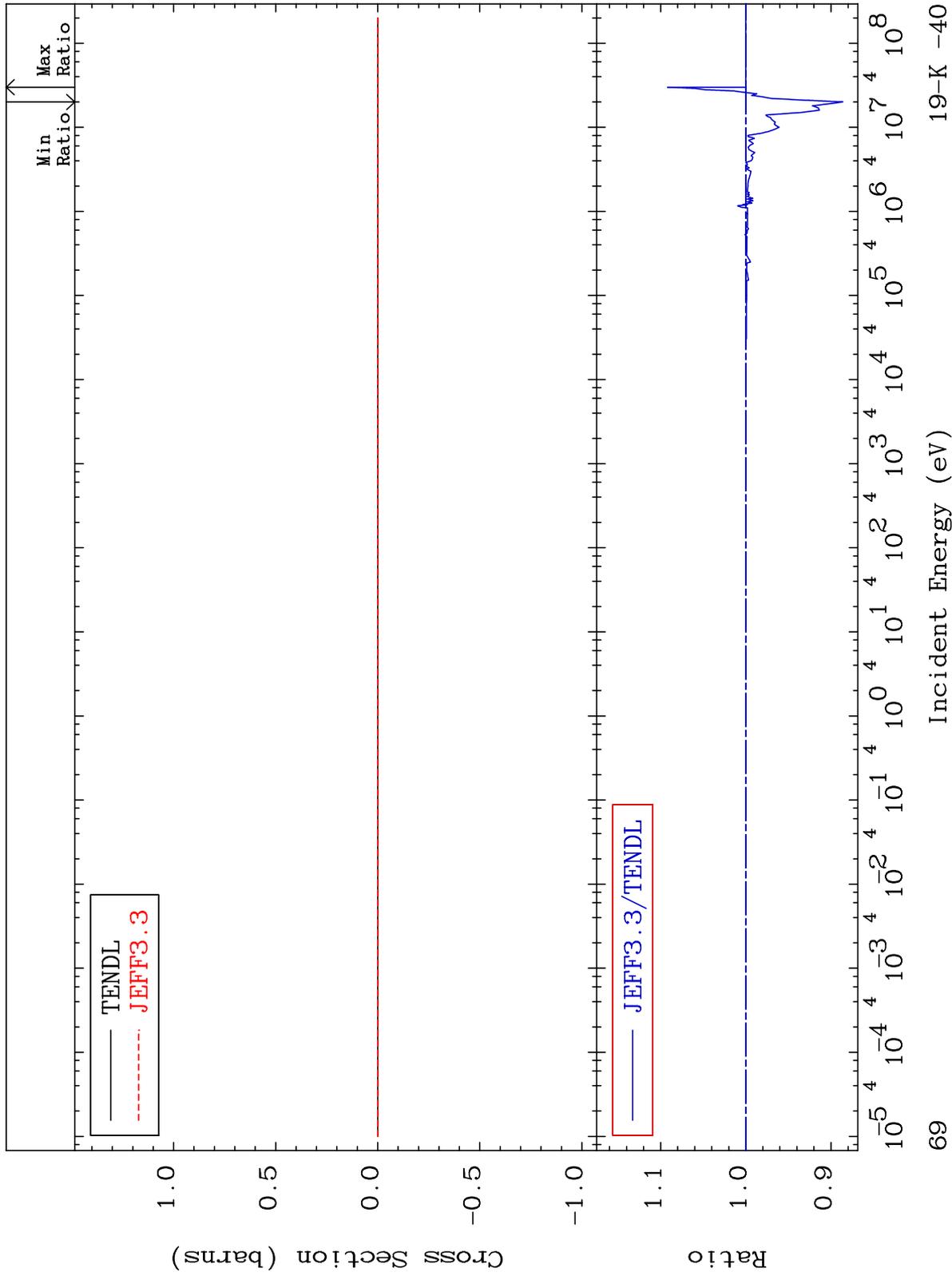
Incident Energy (eV)

19-K -40

MAT 1928

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

19-K -40
-11.39 To 9.180 %



69

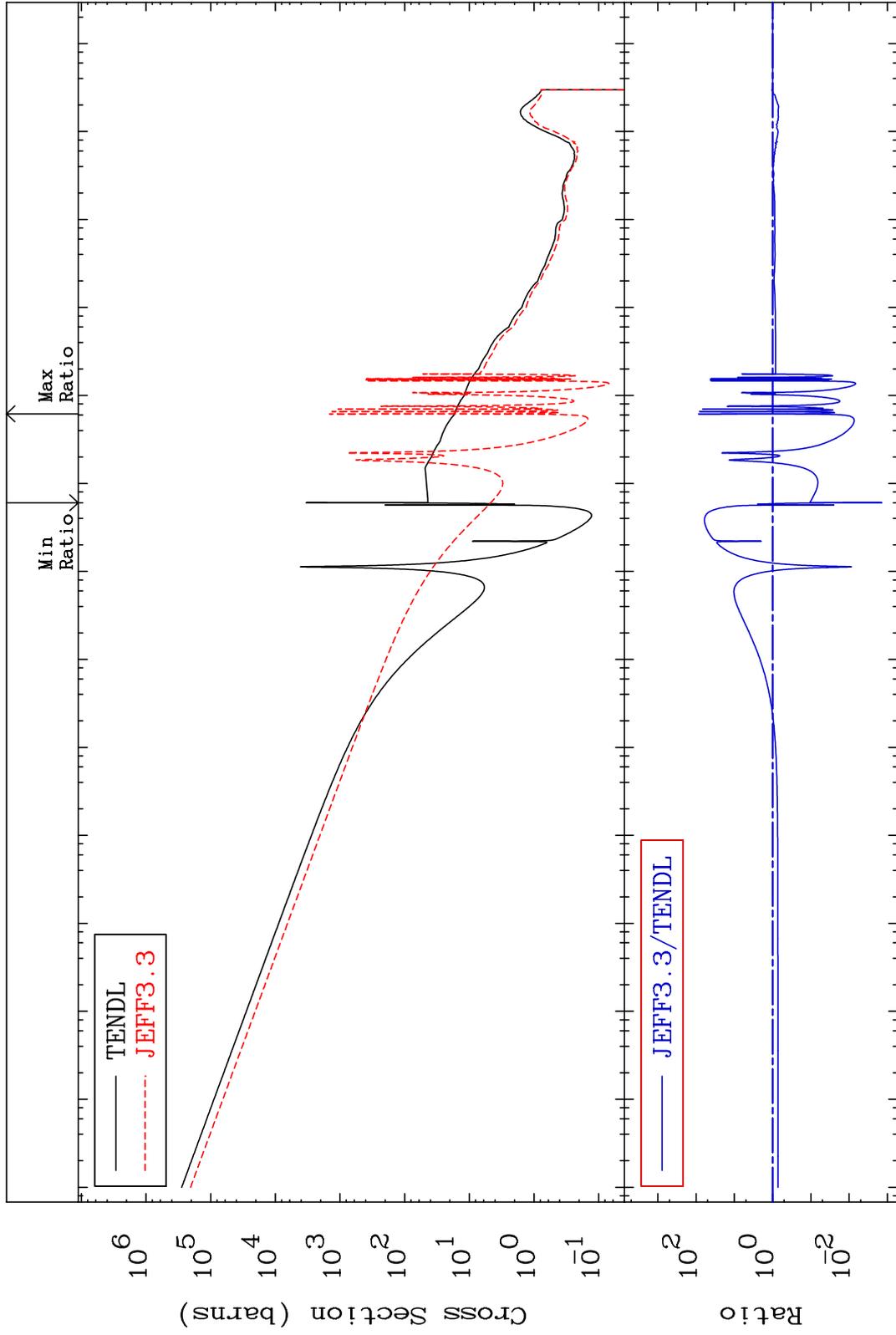
Incident Energy (eV)

19-K -40

MAT 1928

Kerma capture (mt102)
Cross Section

19-K -40
-99.86 To 8464. %



70

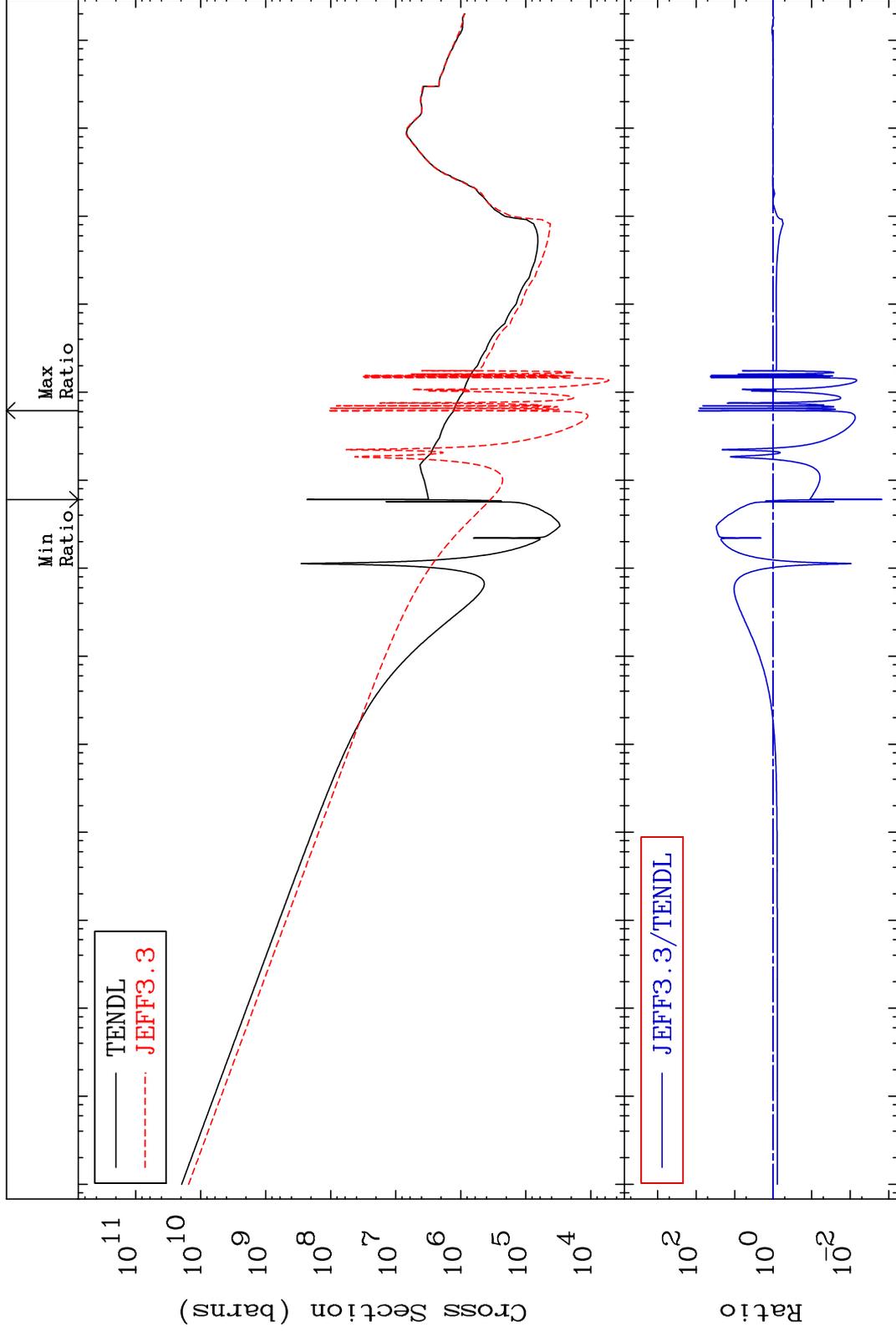
Incident Energy (eV)

19-K -40

MAT 1928

Total photon (eV-barns)
Cross Section

19-K -40
-99.85 To 8461. %



71

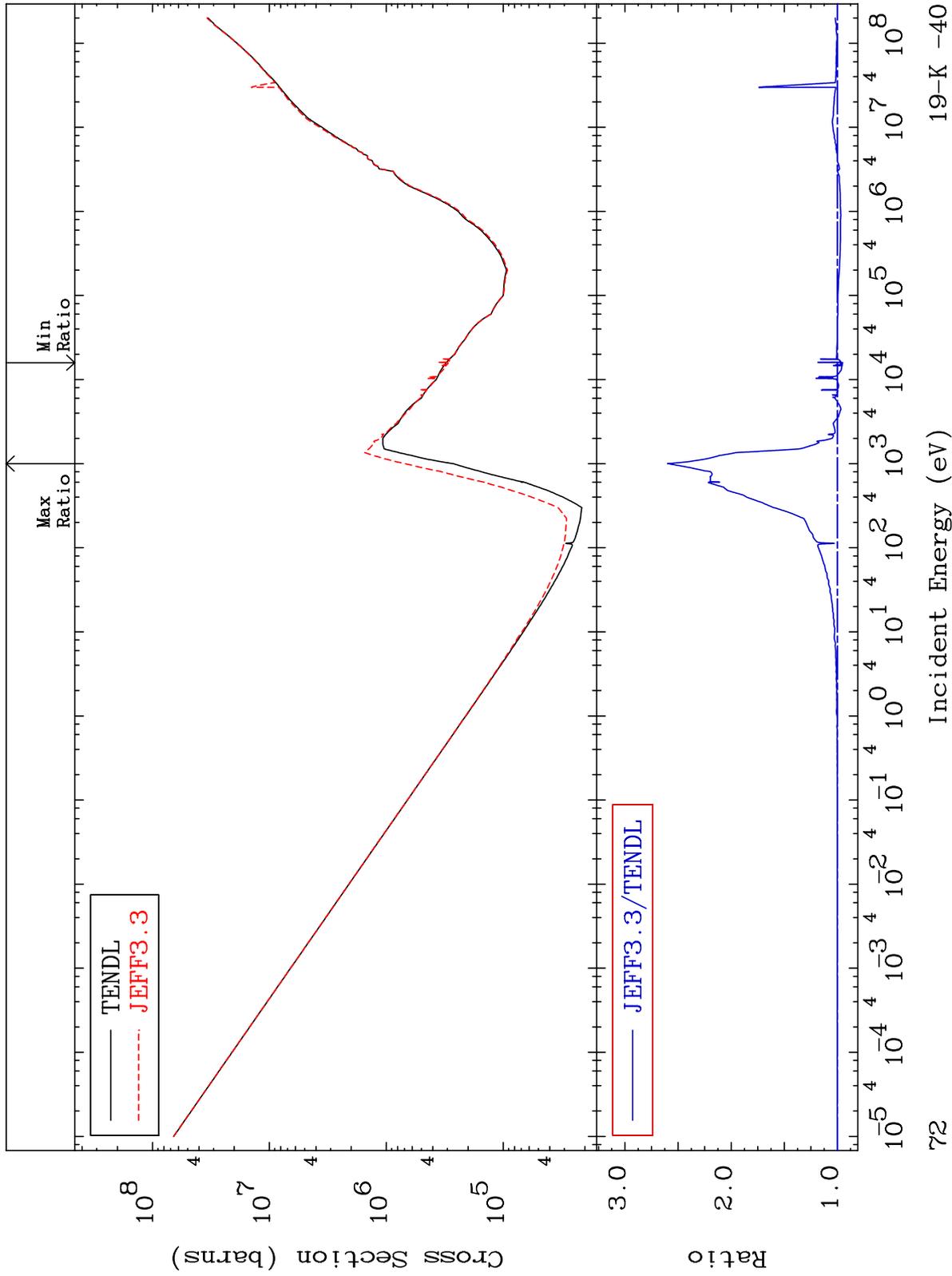
Incident Energy (eV)

19-K -40

MAT 1928

Total kinematic kerma (high limit)
Cross Section

19-K -40
-5.186 To 159.9 %



72

19-K -40

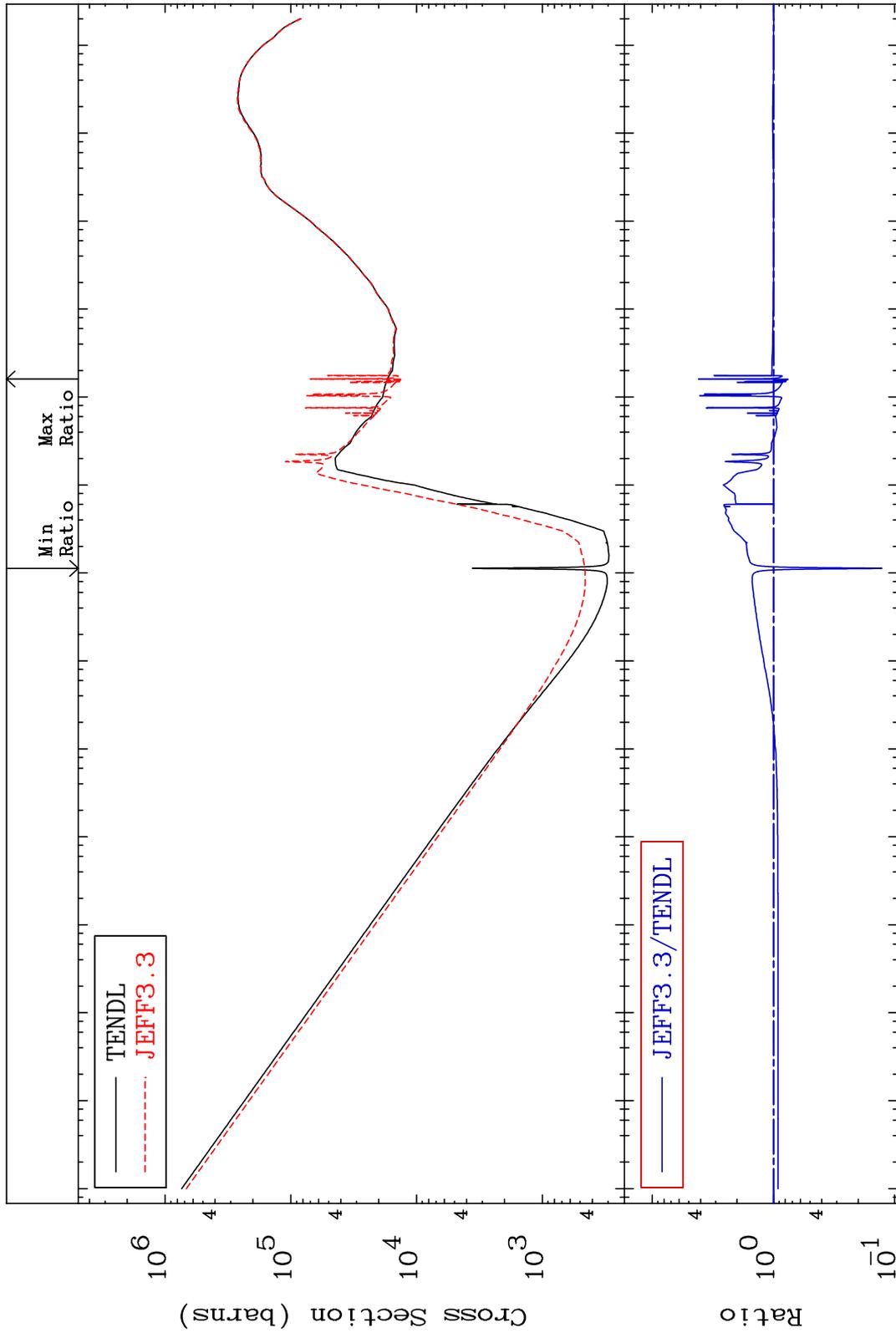
MAT 1928

Dpa total (eV-barns)

19-K -40

Cross Section

-87.30 To 314.2 %



73

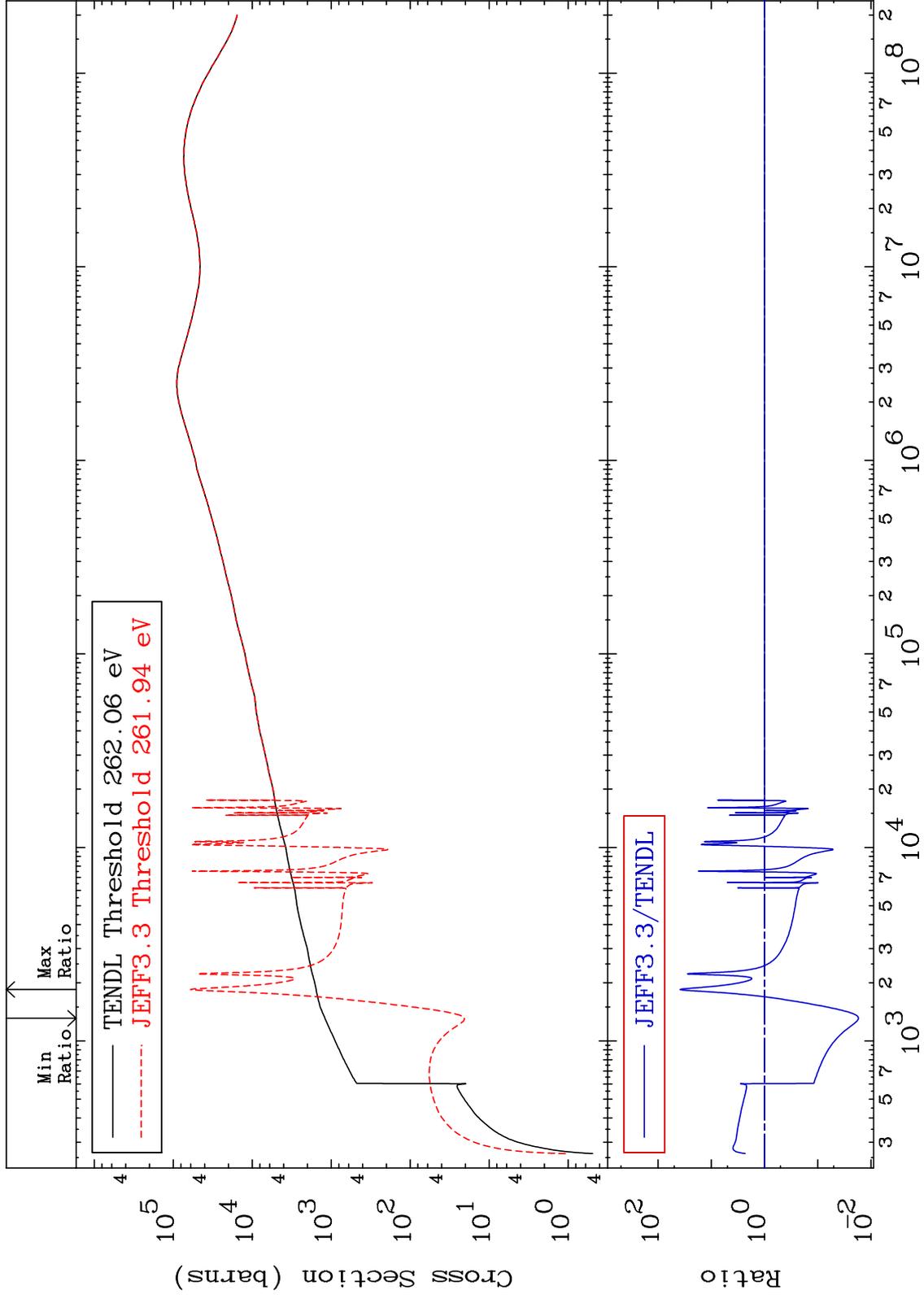
Incident Energy (eV)

19-K -40

MAT 1928

Dpa elastic (mt2)
Cross Section

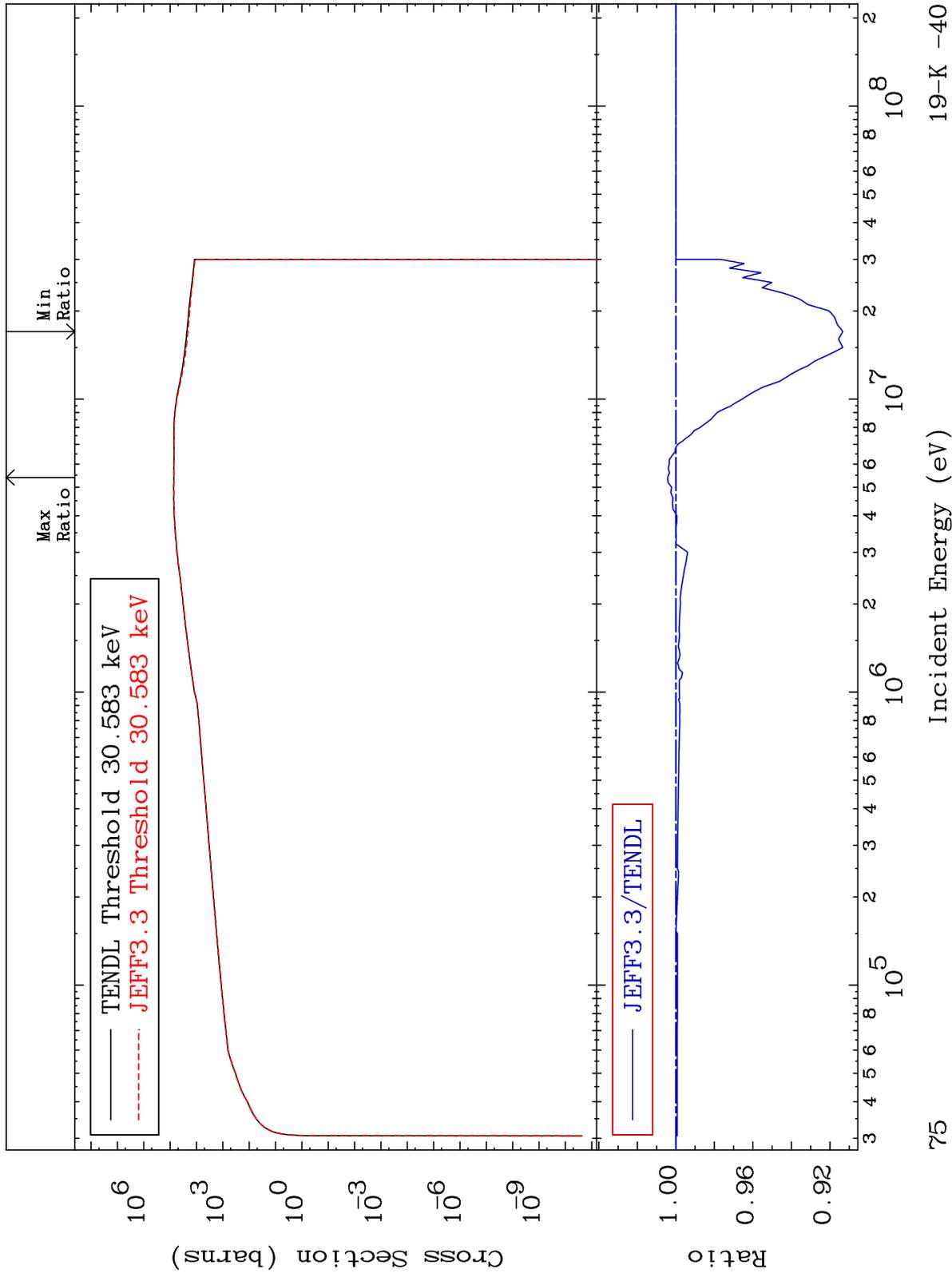
19-K -40
-98.28 To 3787. %



MAT 1928

Dpa inelastic (mt51-91)
Cross Section

19-K -40
-8.674 To 0.425 %



75

19-K -40

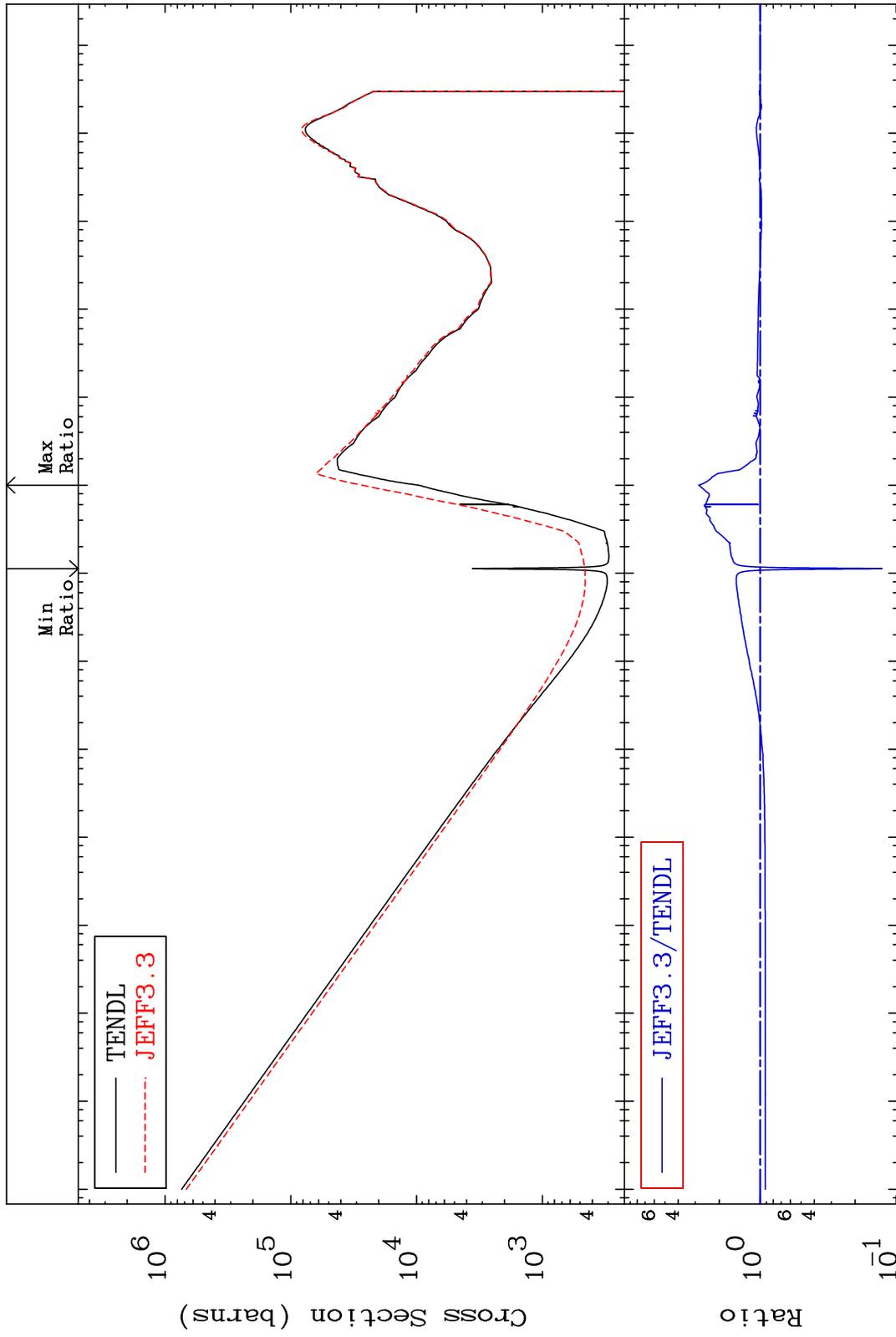
MAT 1928

Dpa disappearance (mt102 -120)

19-K -40

-87.30 To 182.8 %

Cross Section



76

Incident Energy (eV)

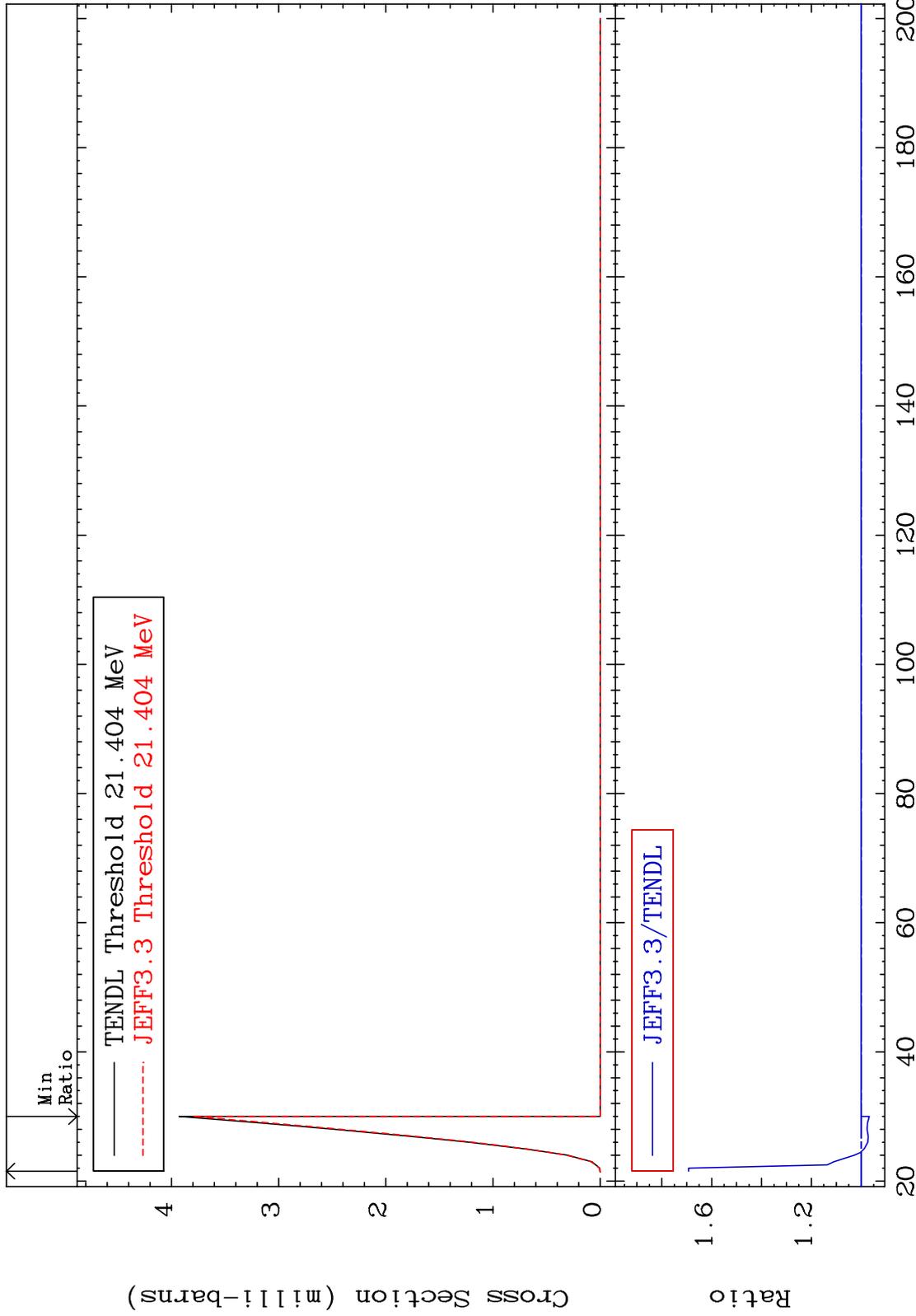
19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section -3.263 To 69.26 %



77

Incident Energy (MeV)

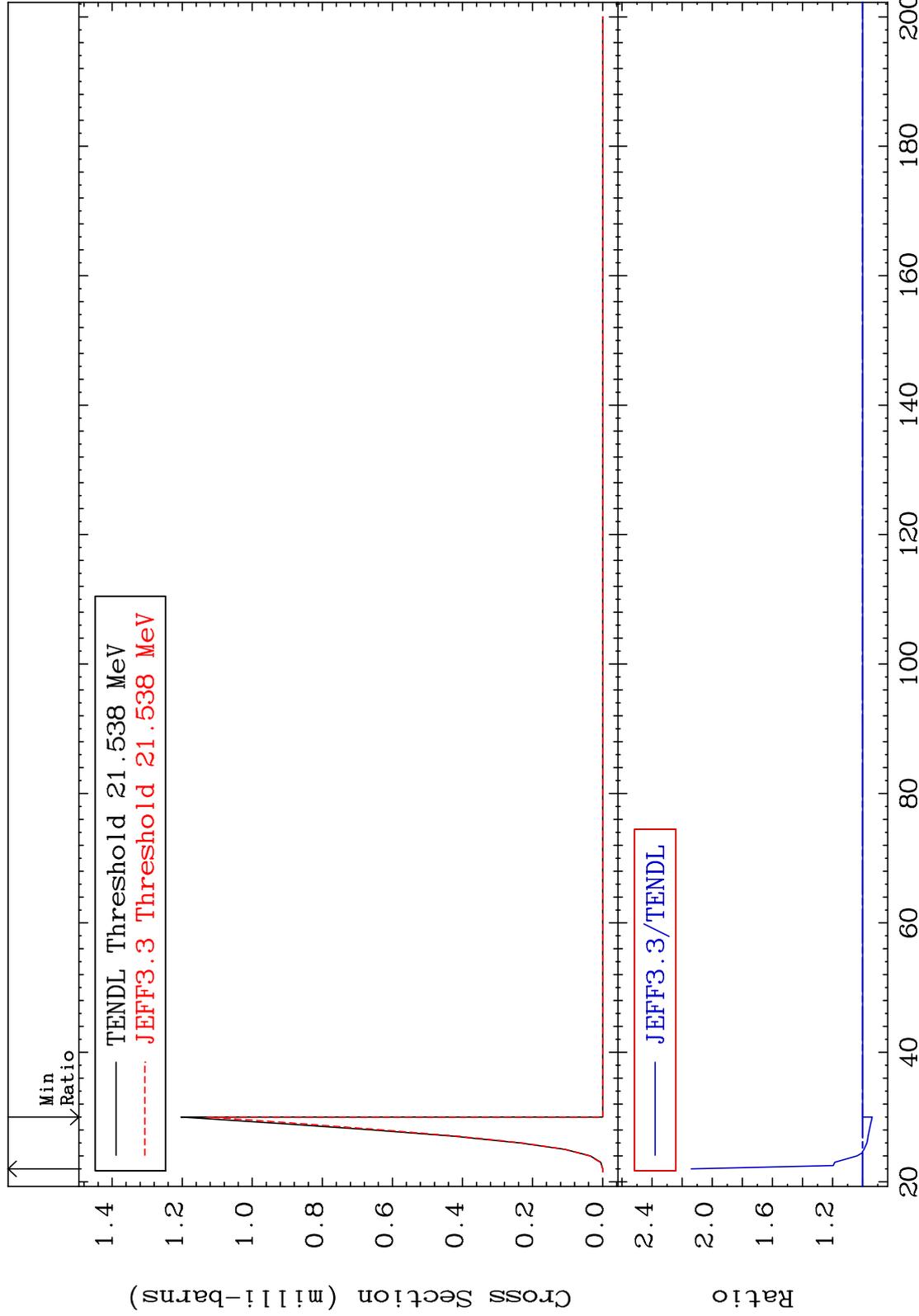
19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section -6.317 To 113.9 %



78

Incident Energy (MeV)

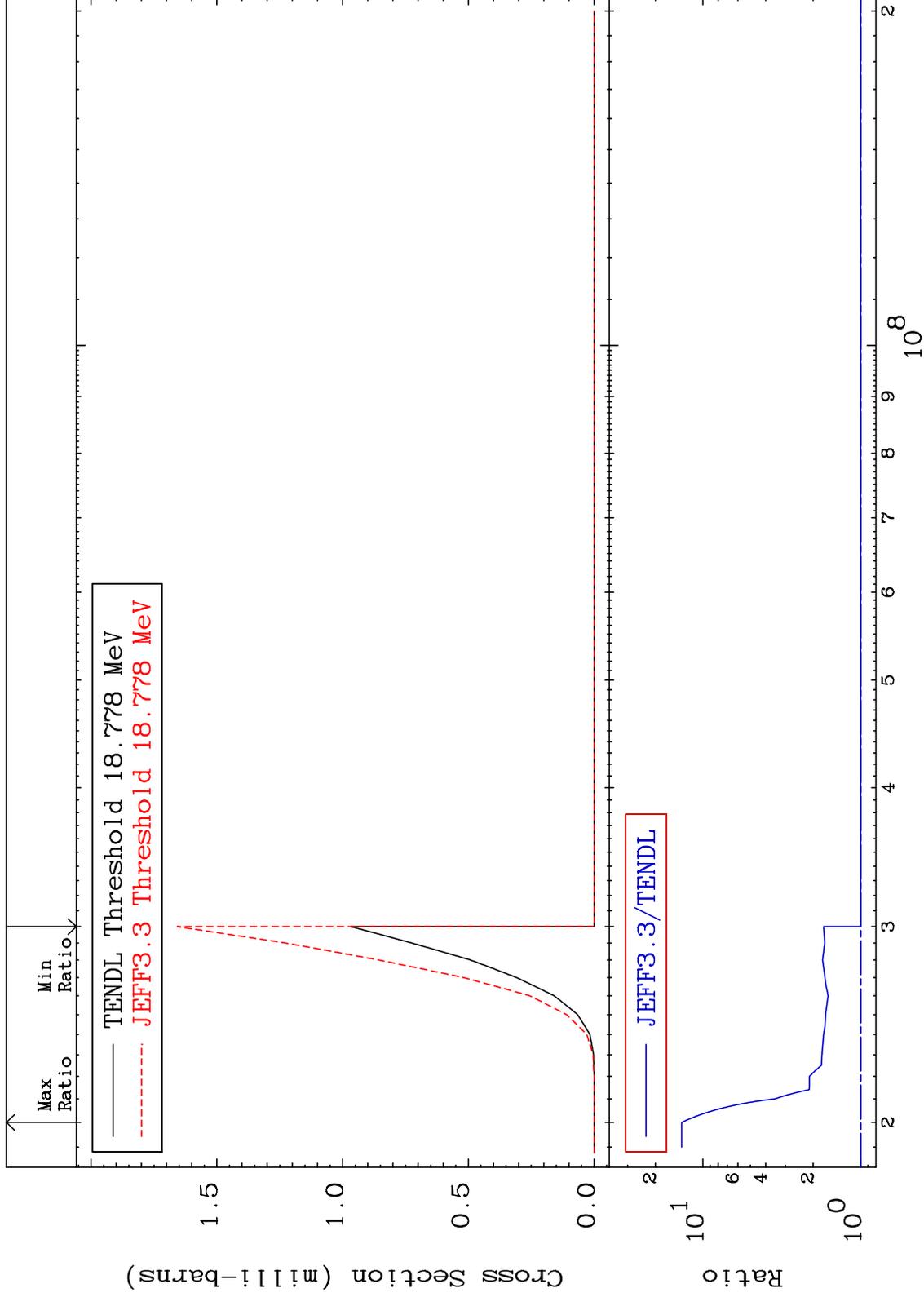
19-K -40

MAT 1928

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

19-K -40

Radionuclide Production Cross Section 0.000 To 1262. %

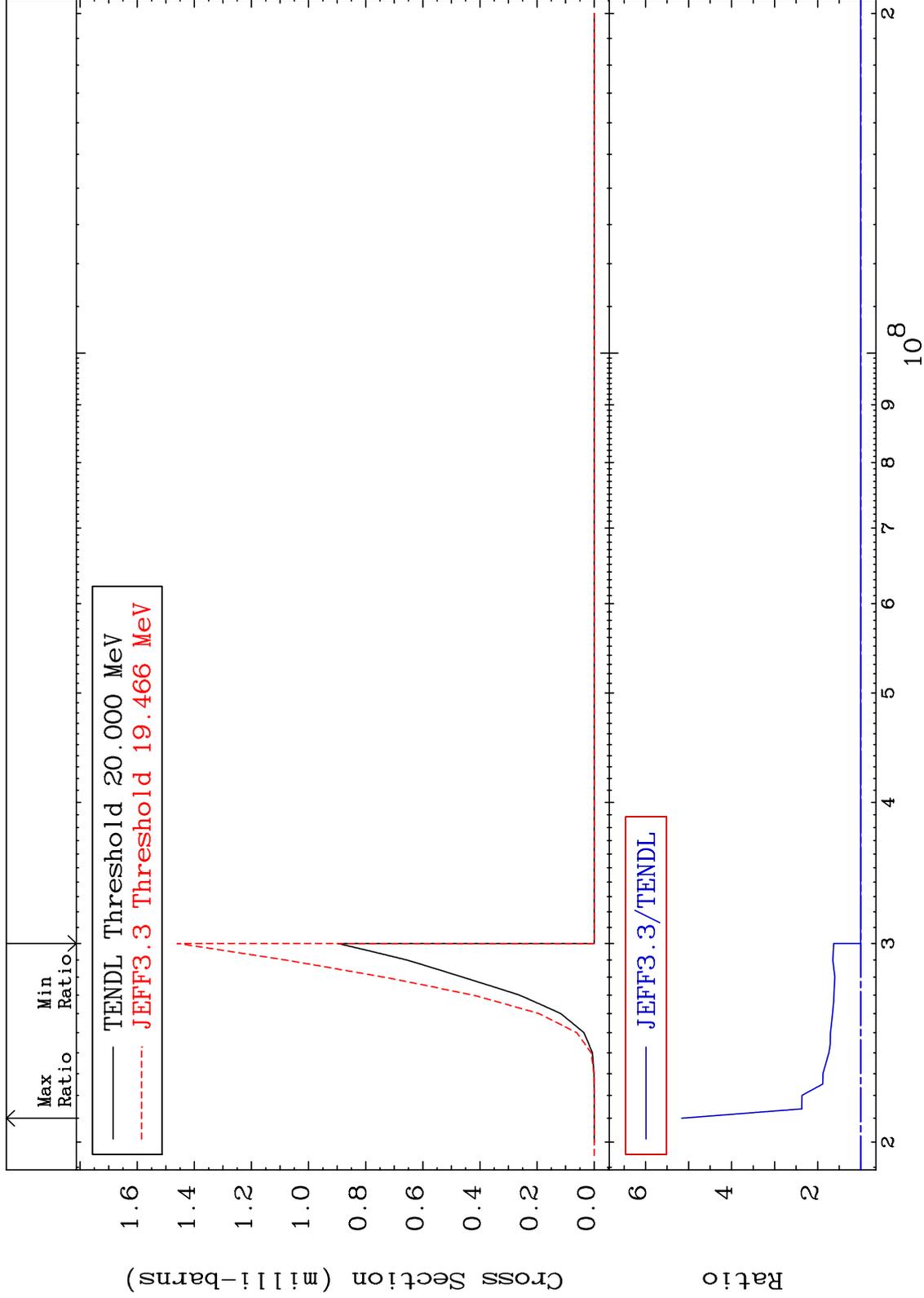


79

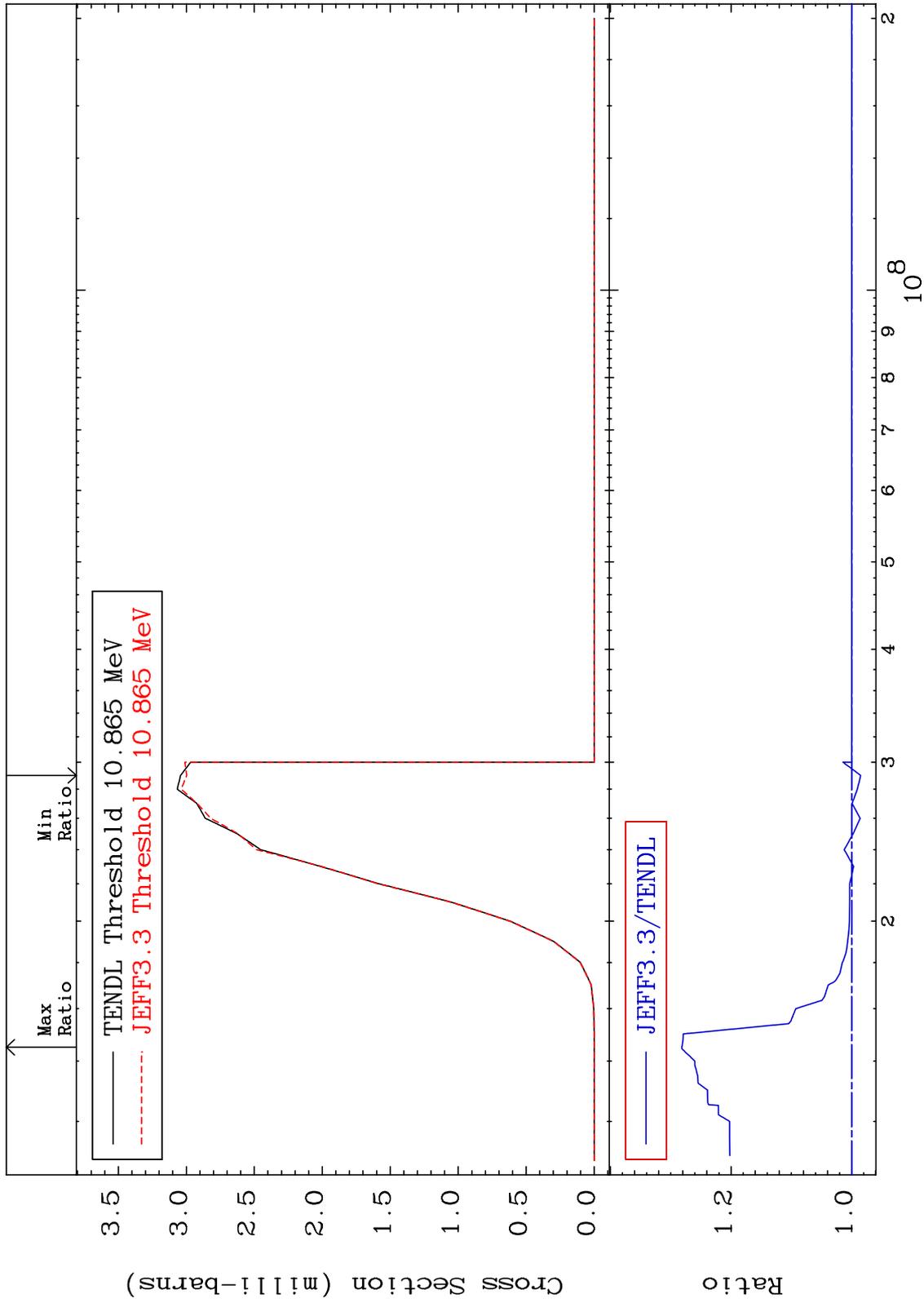
Incident Energy (eV)

19-K -40

Radionuclide Production Cross Section 0.000 To 416.0 %



Radionuclide Production Cross Section -1.490 To 28.18 %

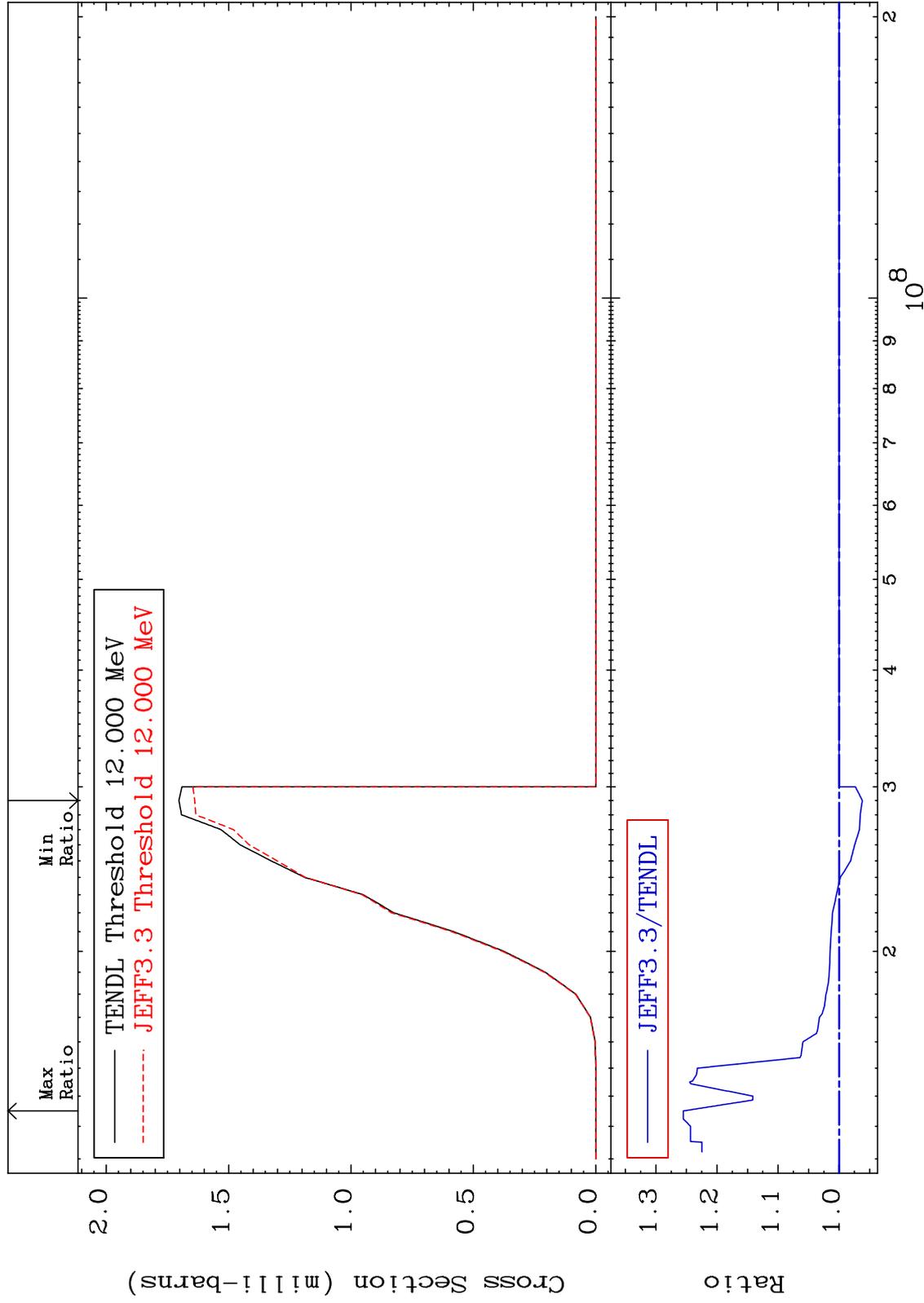


MAT 1928

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

19-K -40

Radionuclide Production Cross Section -3.790 To 25.51 %



82

Incident Energy (eV)

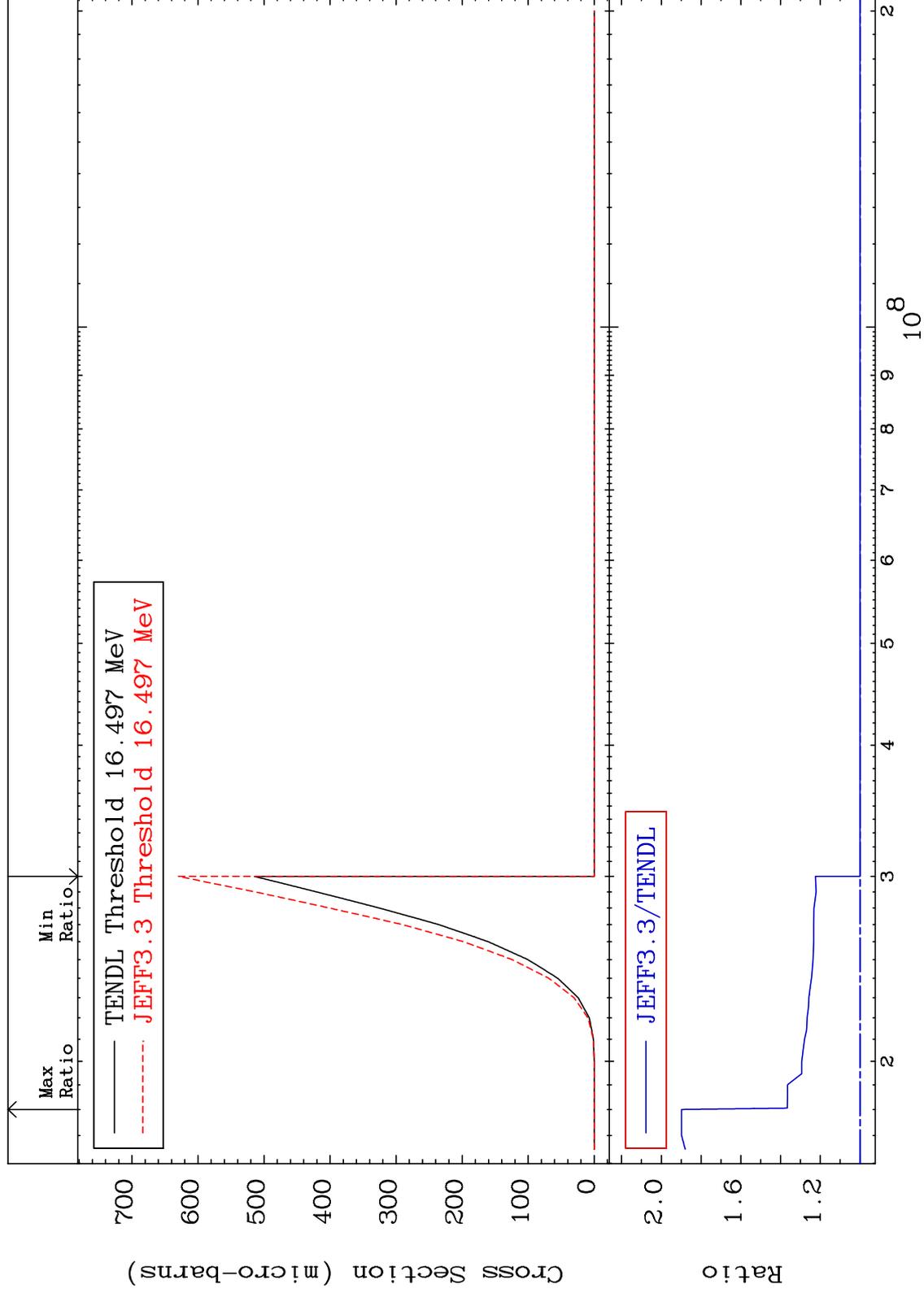
19-K -40

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 %

