

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.

Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

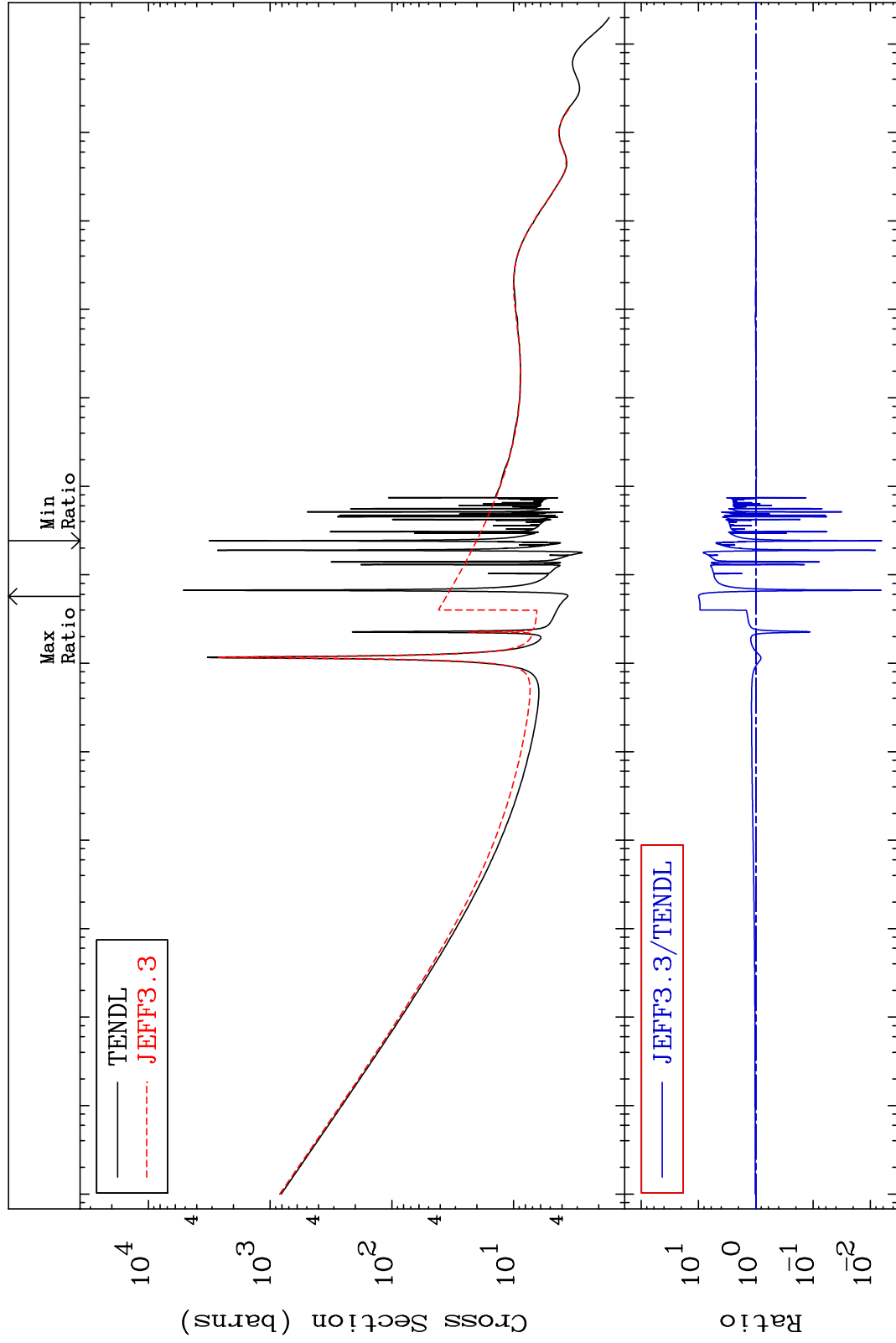
MAT 4128

Total

41-Nb-94

Cross Section

-99.36 To 890.9 %



1

Incident Energy (eV)

41-Nb-94

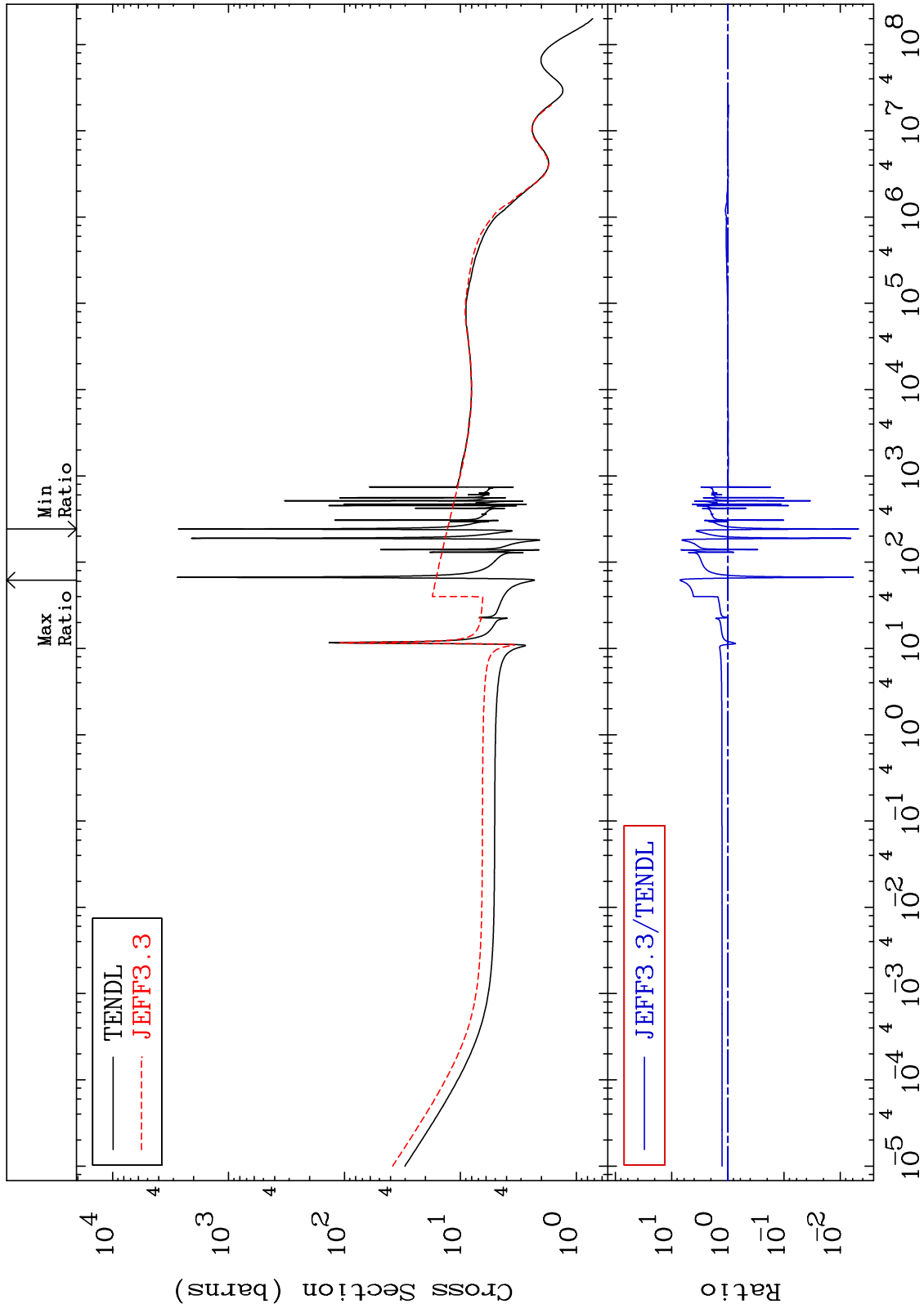
MAT 4128

Elastic

41-Nb-94

Cross Section

-99.52 To 610.4 %



2

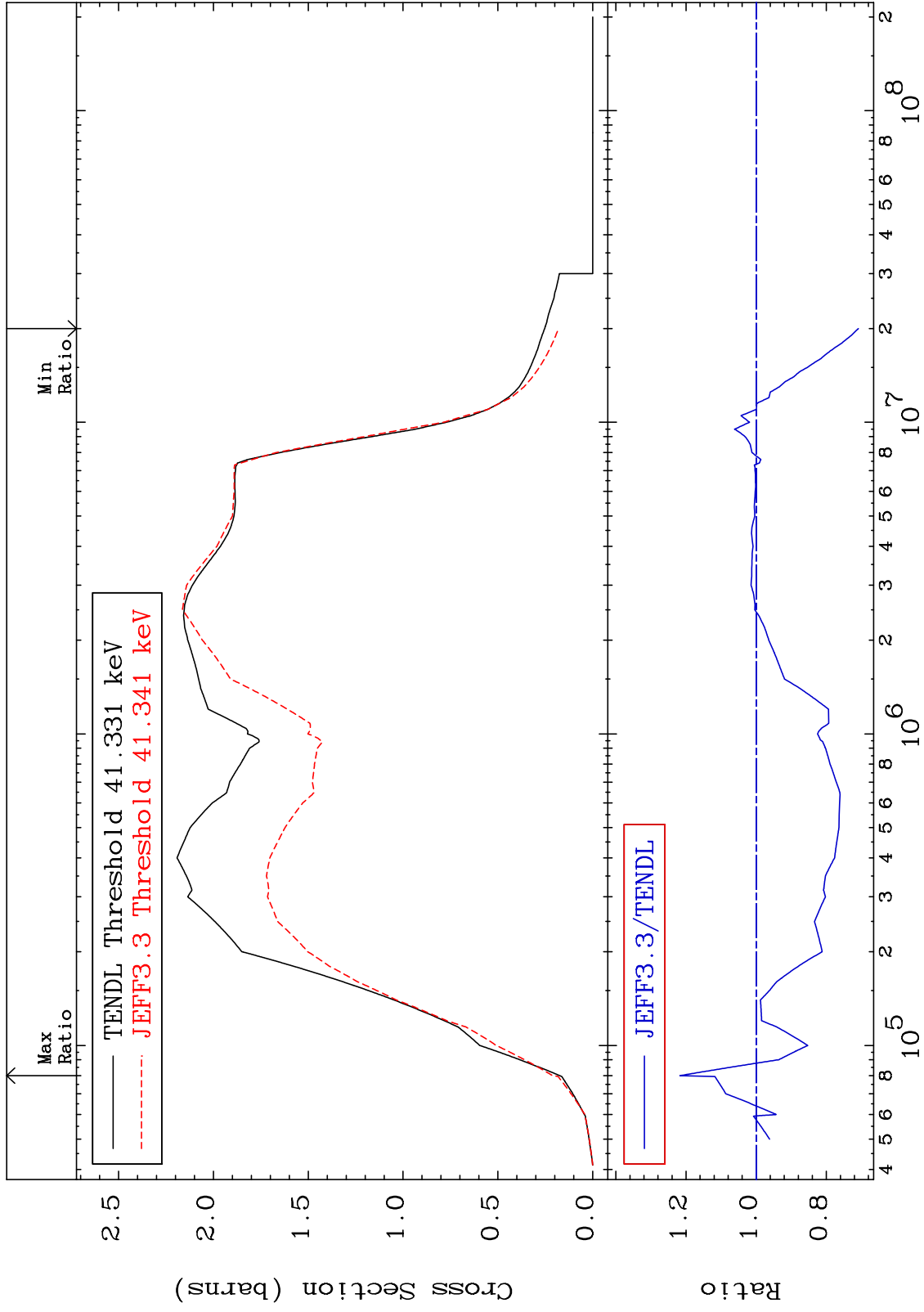
Incident Energy (eV)

41-Nb-94

MAT 4128

Inelastic
Cross Section

41-Nb-94
-29.13 To 21.72 %



3

Incident Energy (eV)

41-Nb-94

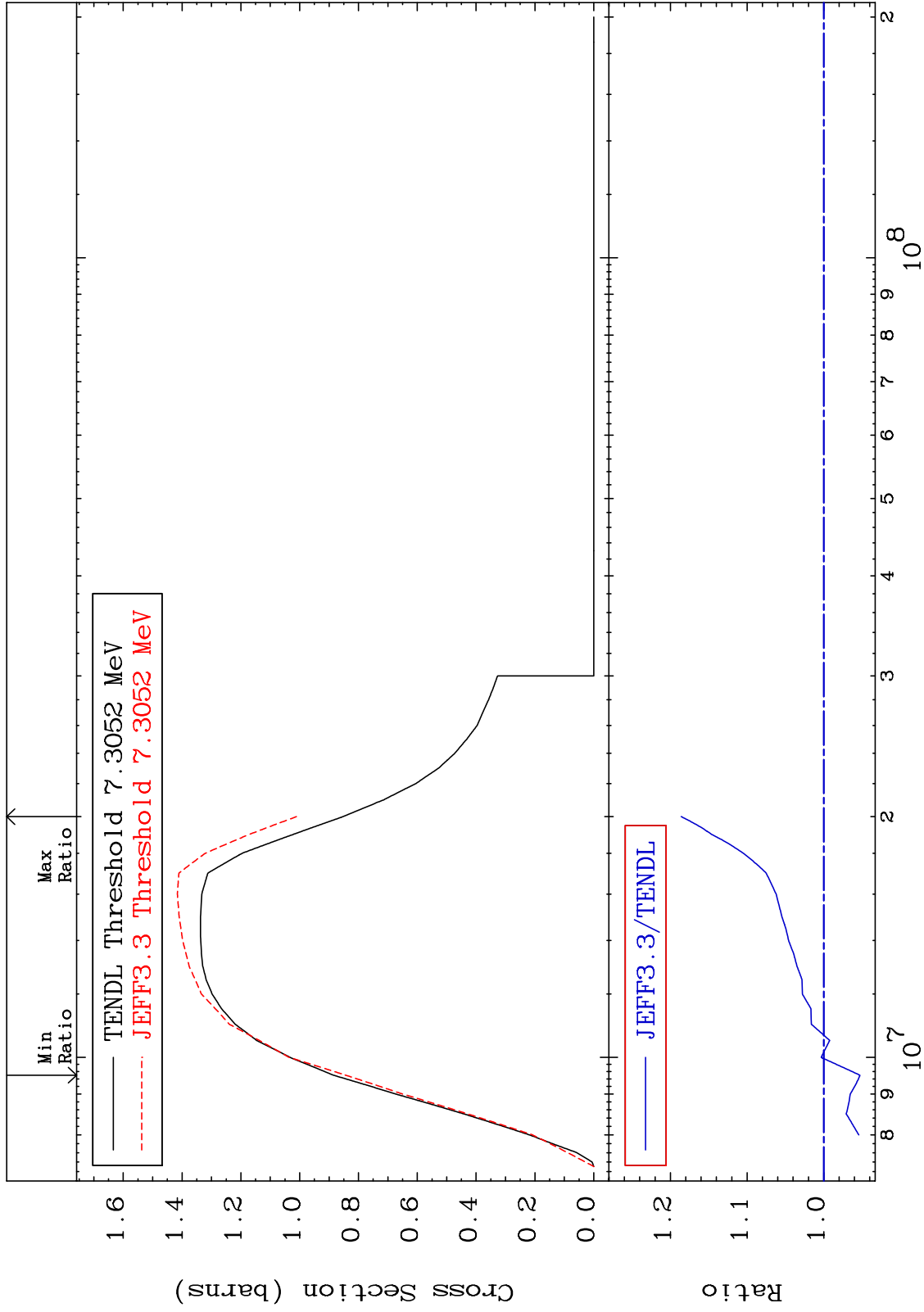
MAT 4128

(n,2n)

41-Nb-94

Cross Section

-4.714 To 18.59 %



4

Incident Energy (eV)

41-Nb-94

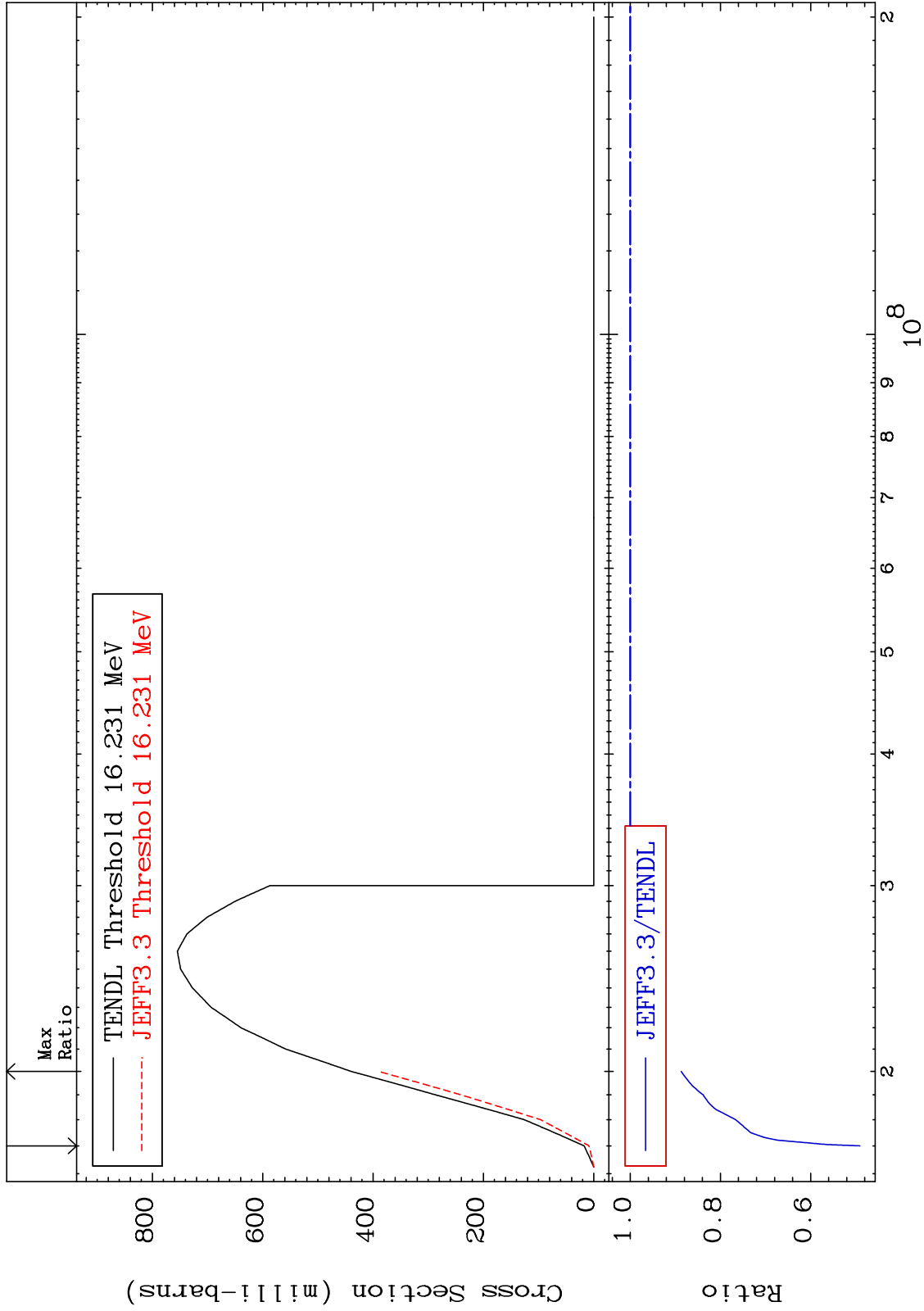
MAT 4128

(n, 3n)

41-Nb-94

Cross Section

-50.92 To -11.30%



5

Incident Energy (eV)

41-Nb-94

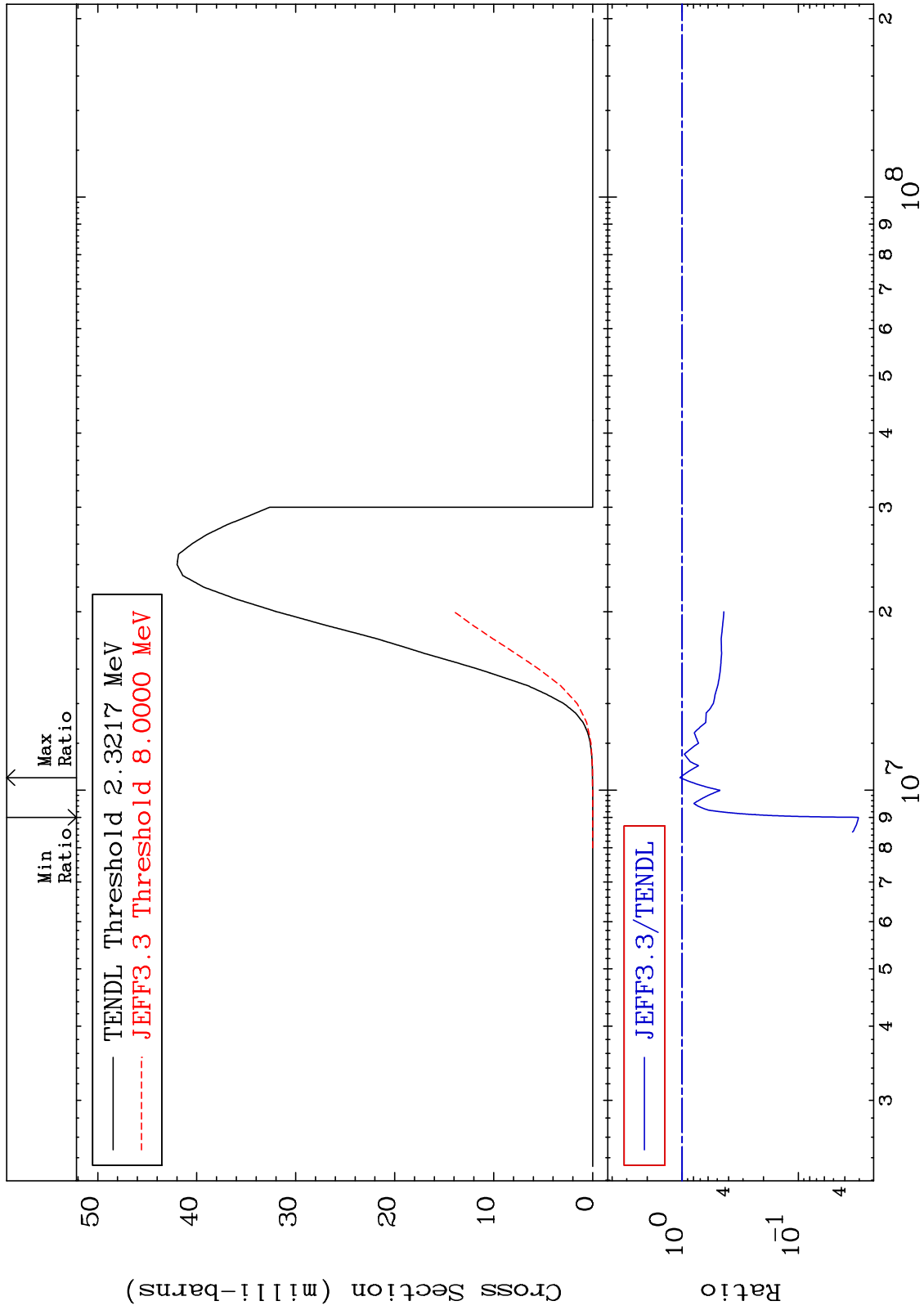
MAT 4128

(n, n') α

41-Nb-94

Cross Section

-96.95 To 4.446 %



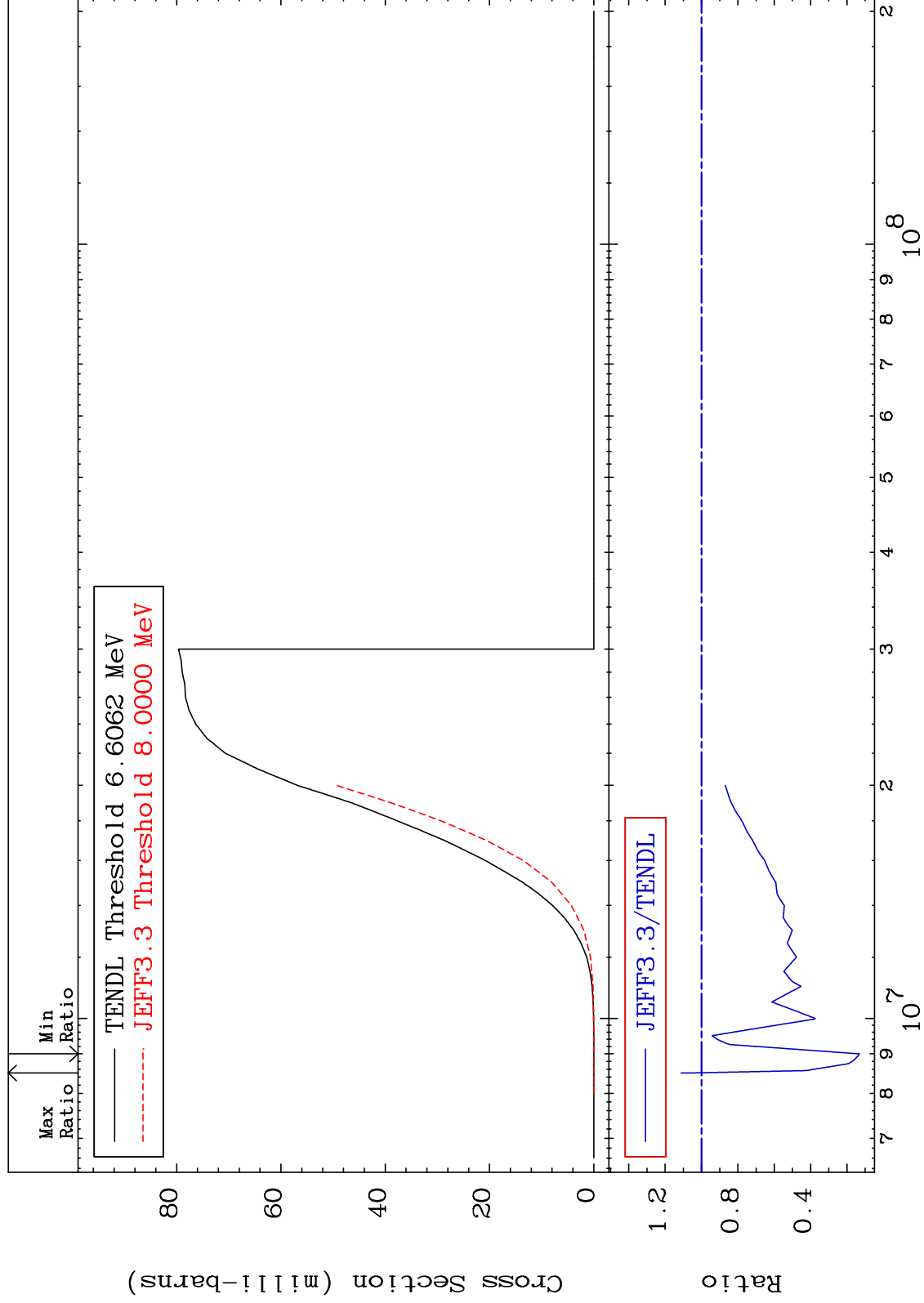
MAT 4128

(n,n') p

41-Nb-94

Cross Section

-86.74 To 11.24 %



7

Incident Energy (eV)

41-Nb-94

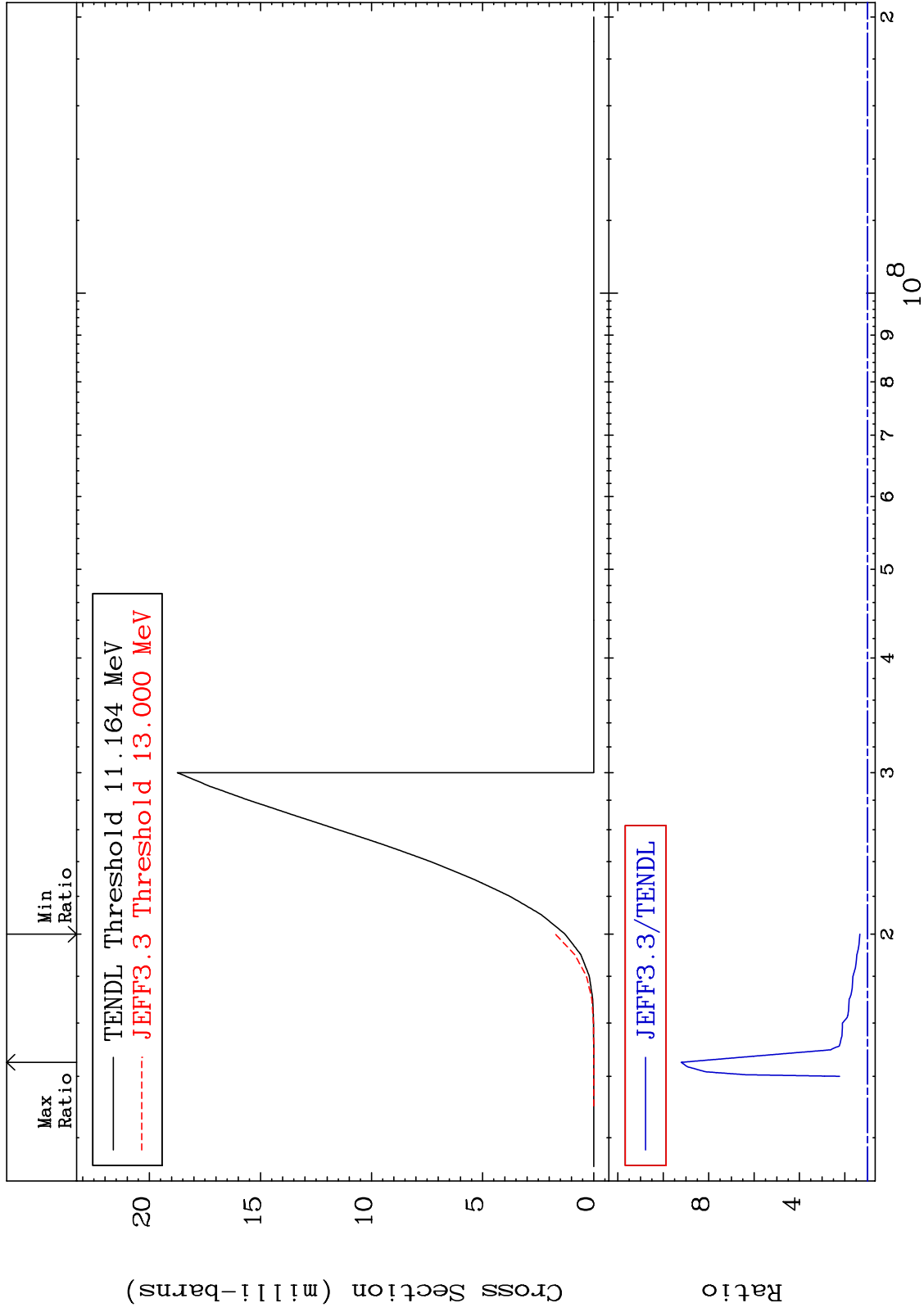
MAT 4128

(n, n') d

41-Nb-94

Cross Section

33.72 To 820.8 %



8

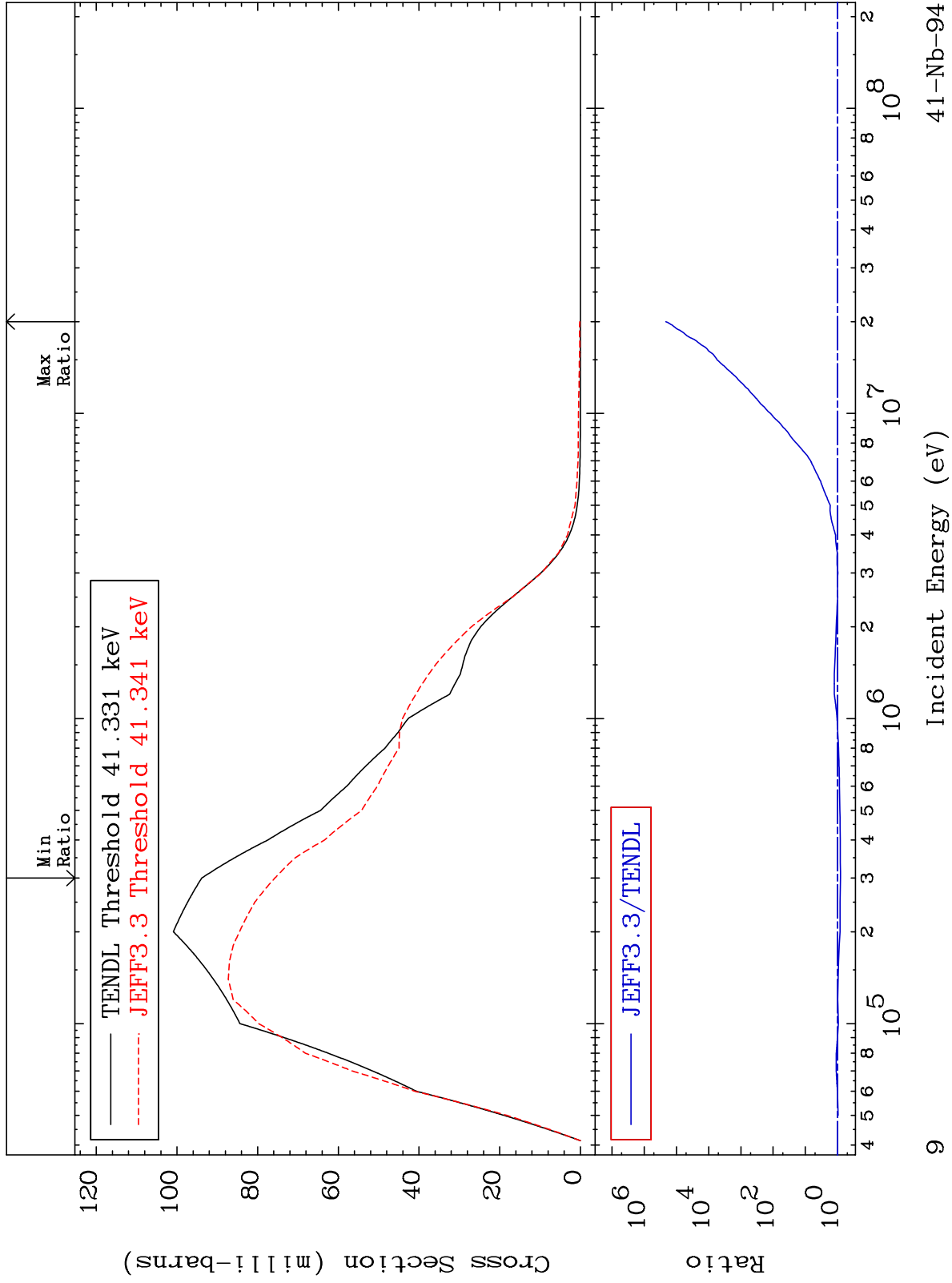
Incident Energy (eV)

41-Nb-94

MAT 4128

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

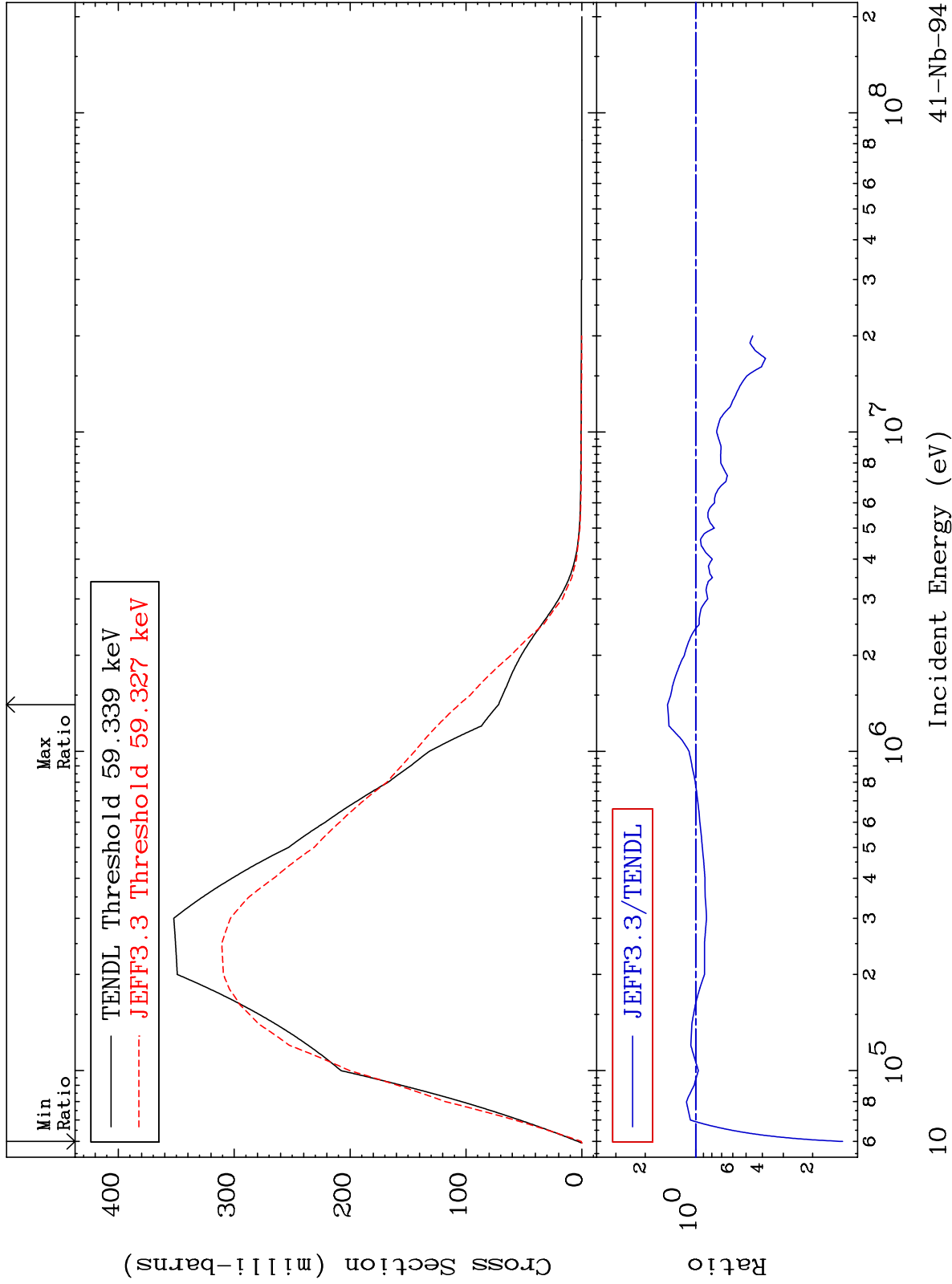
41-Nb-94
-19.31 To 9999. %



MAT 4128

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

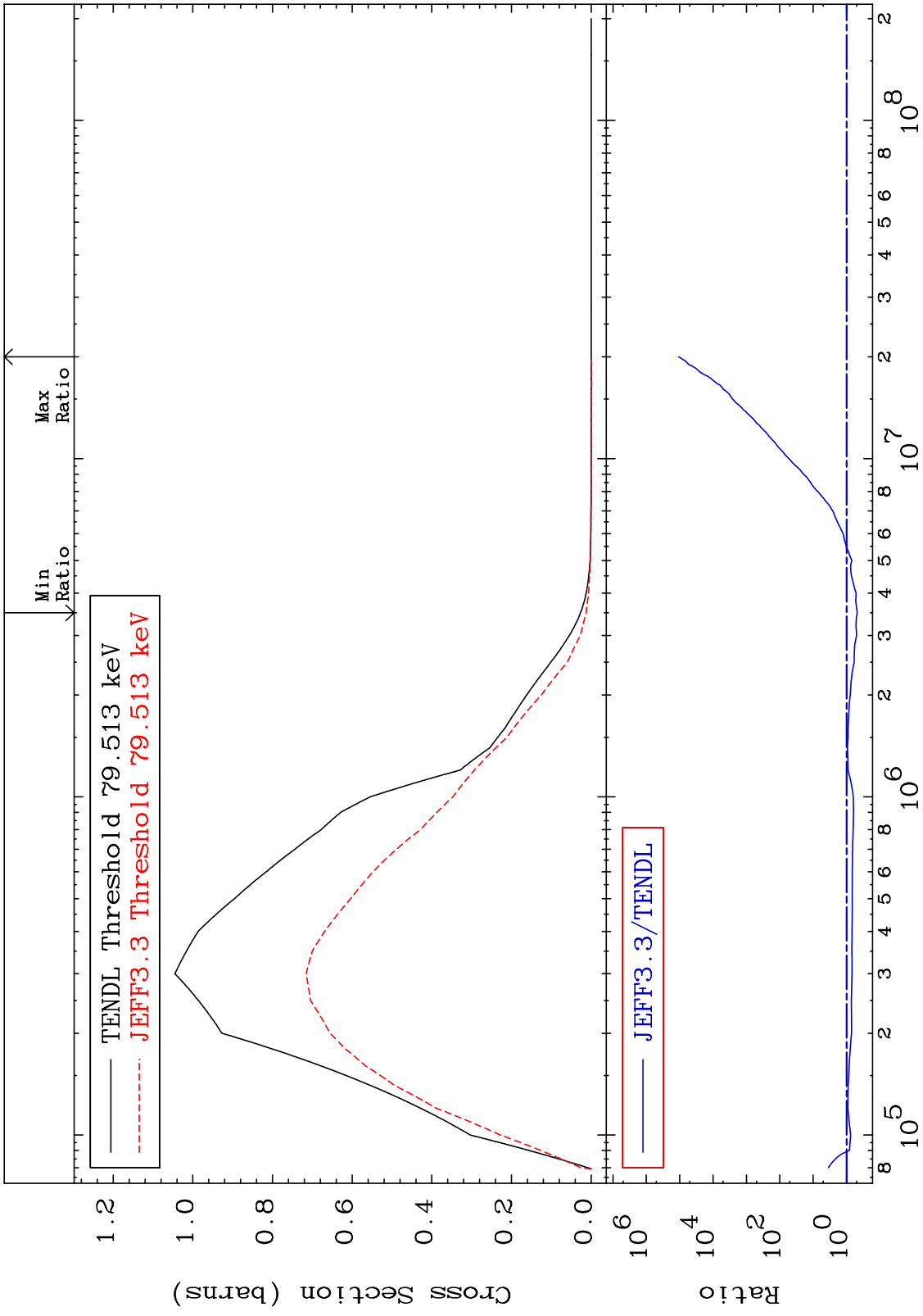
41-Nb-94
-86.76 To 47.26 %



MAT 4128

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

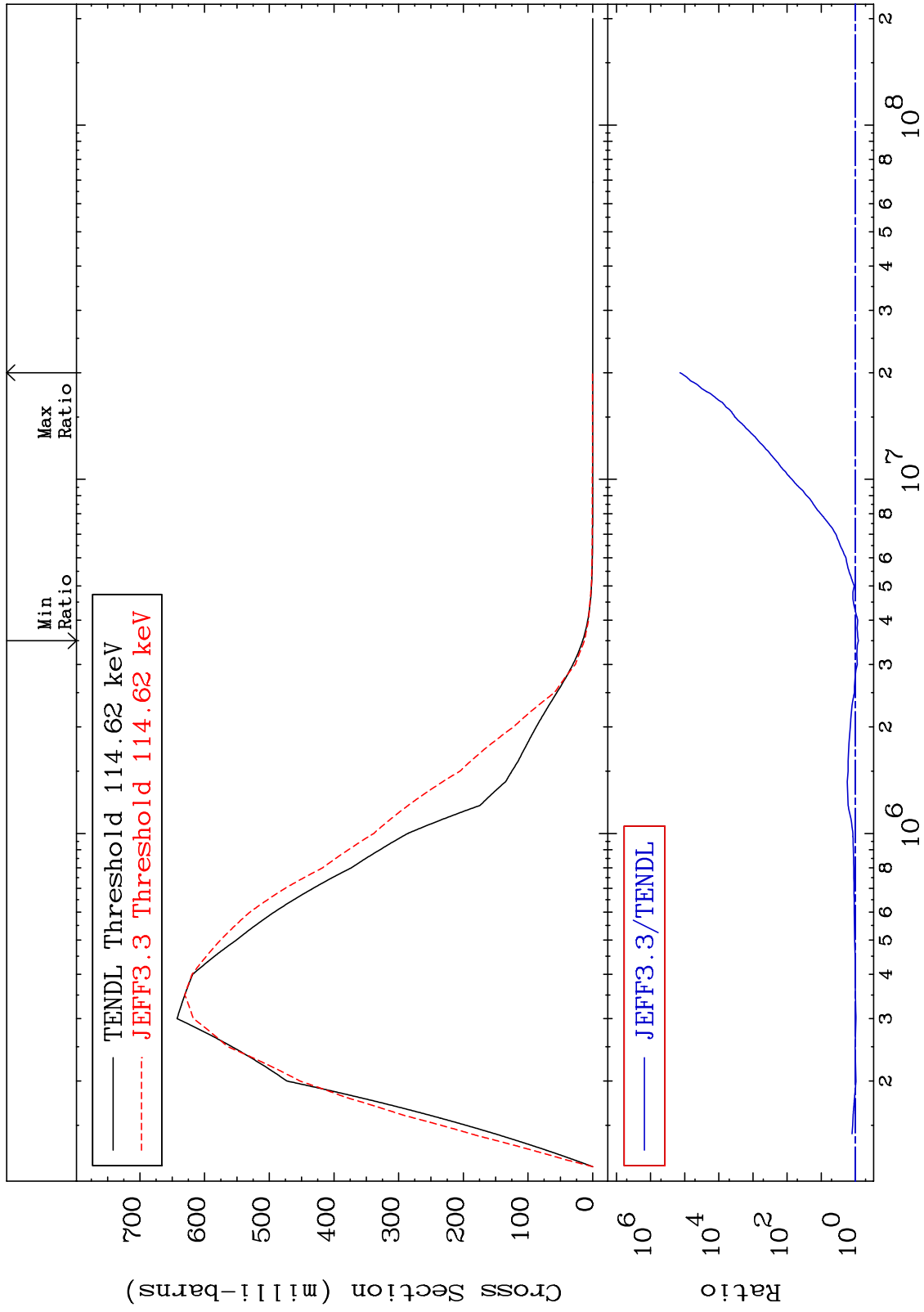
41-Nb-94
-52.60 To 9999. %



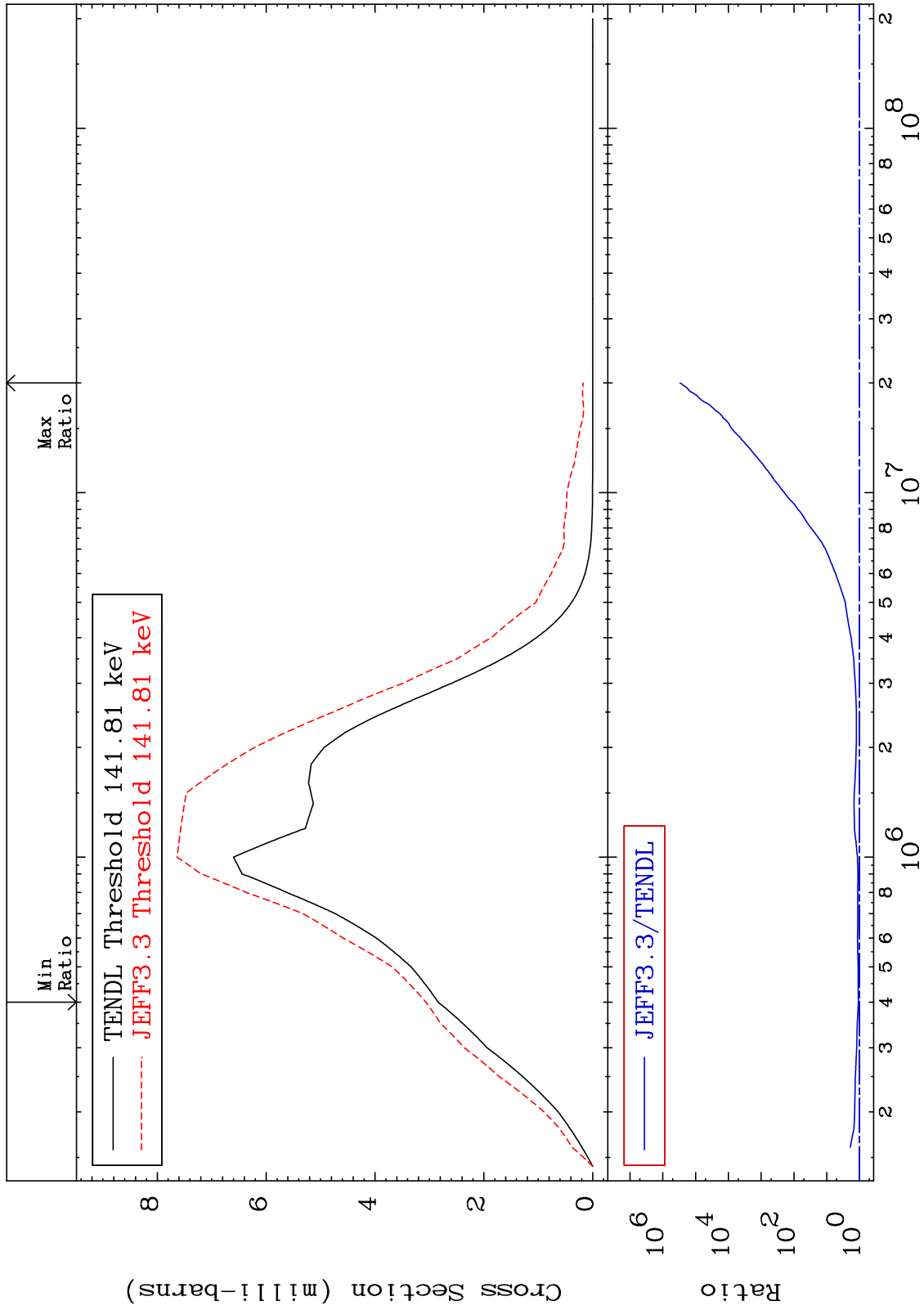
MAT 4128

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

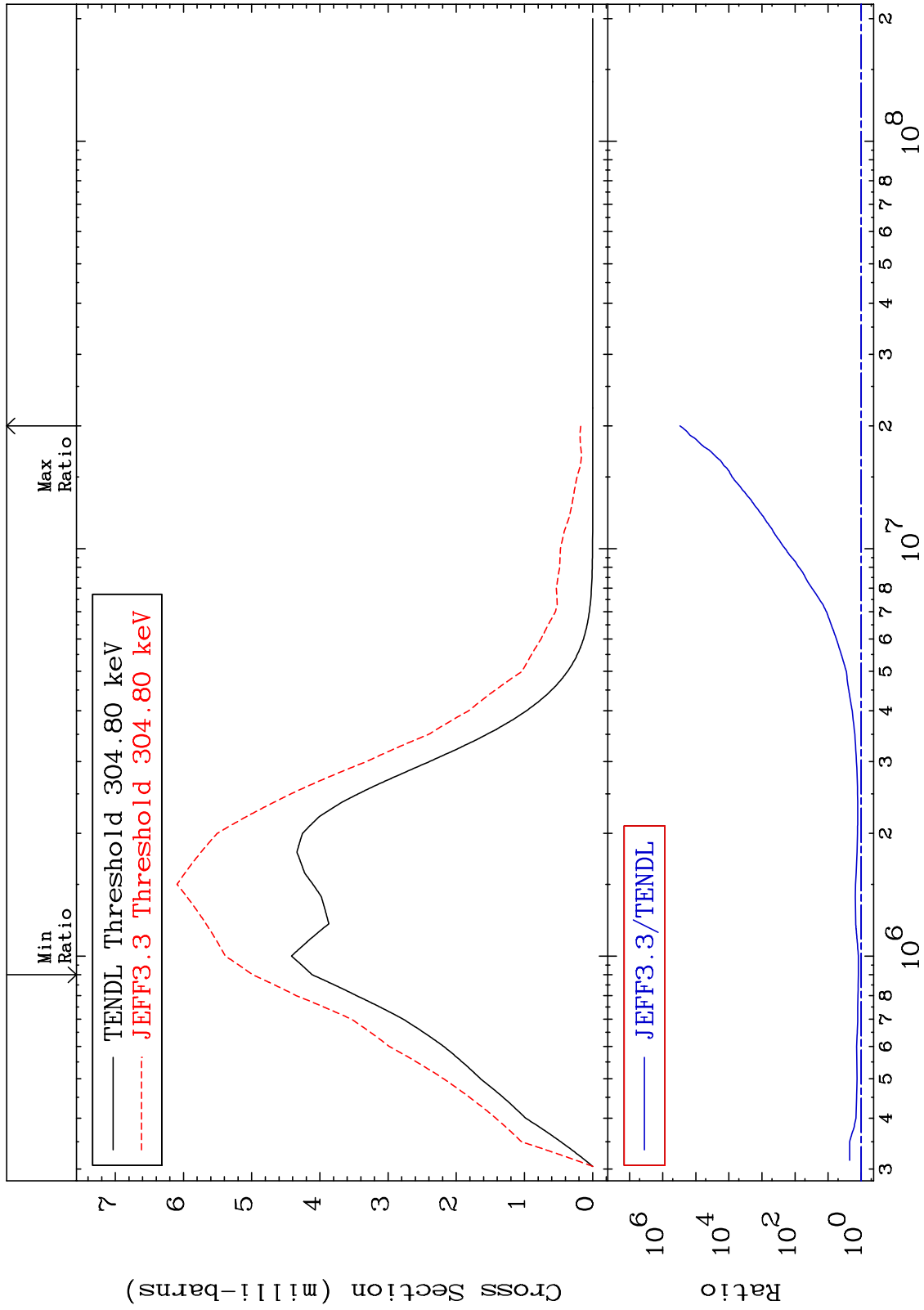
41-Nb-94
-18.53 To 9999. %



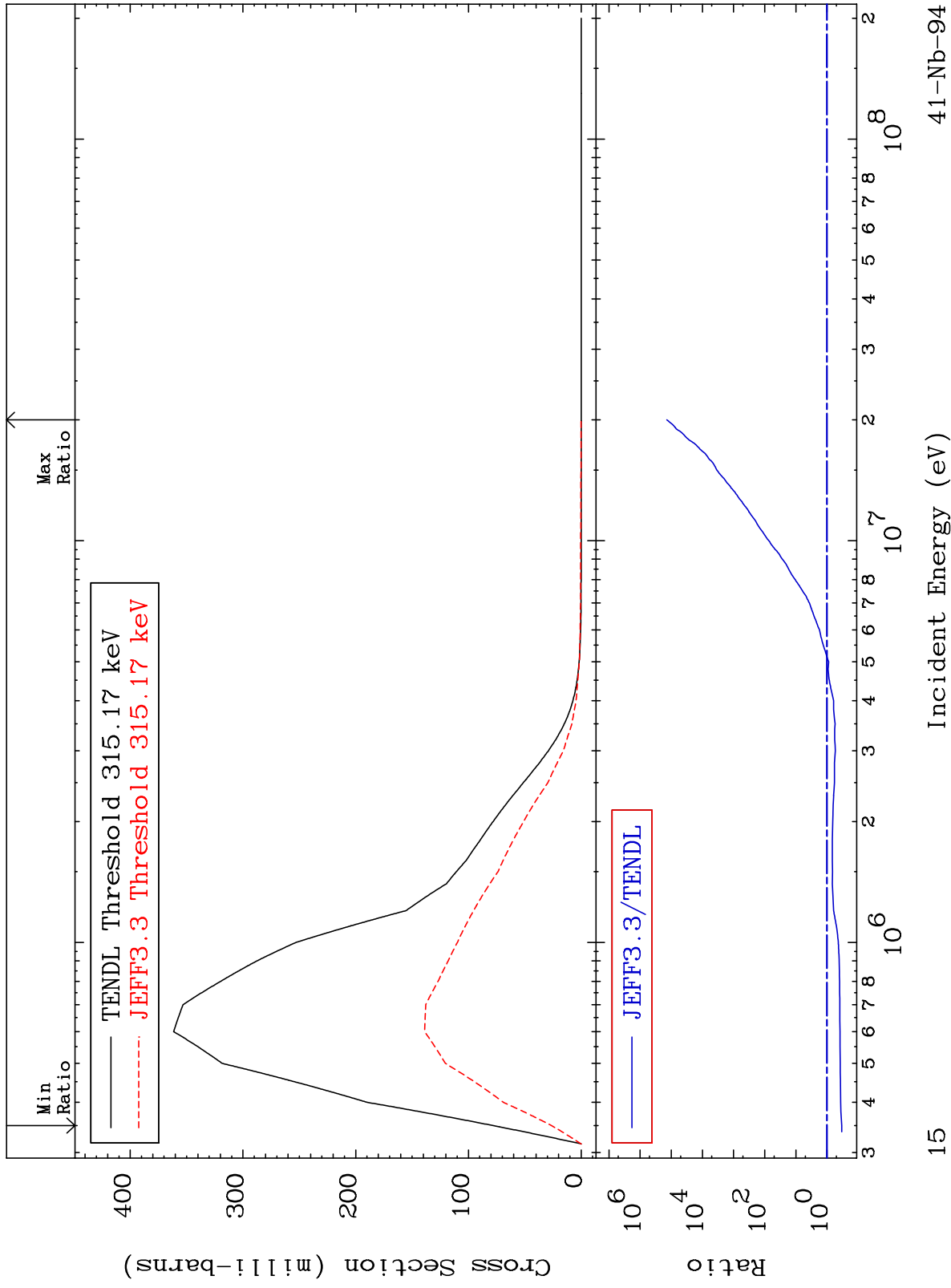
MAT 4128 MT= 55 (n,n') Level Cross Section 41-Nb-94 7.928 To 9999. %



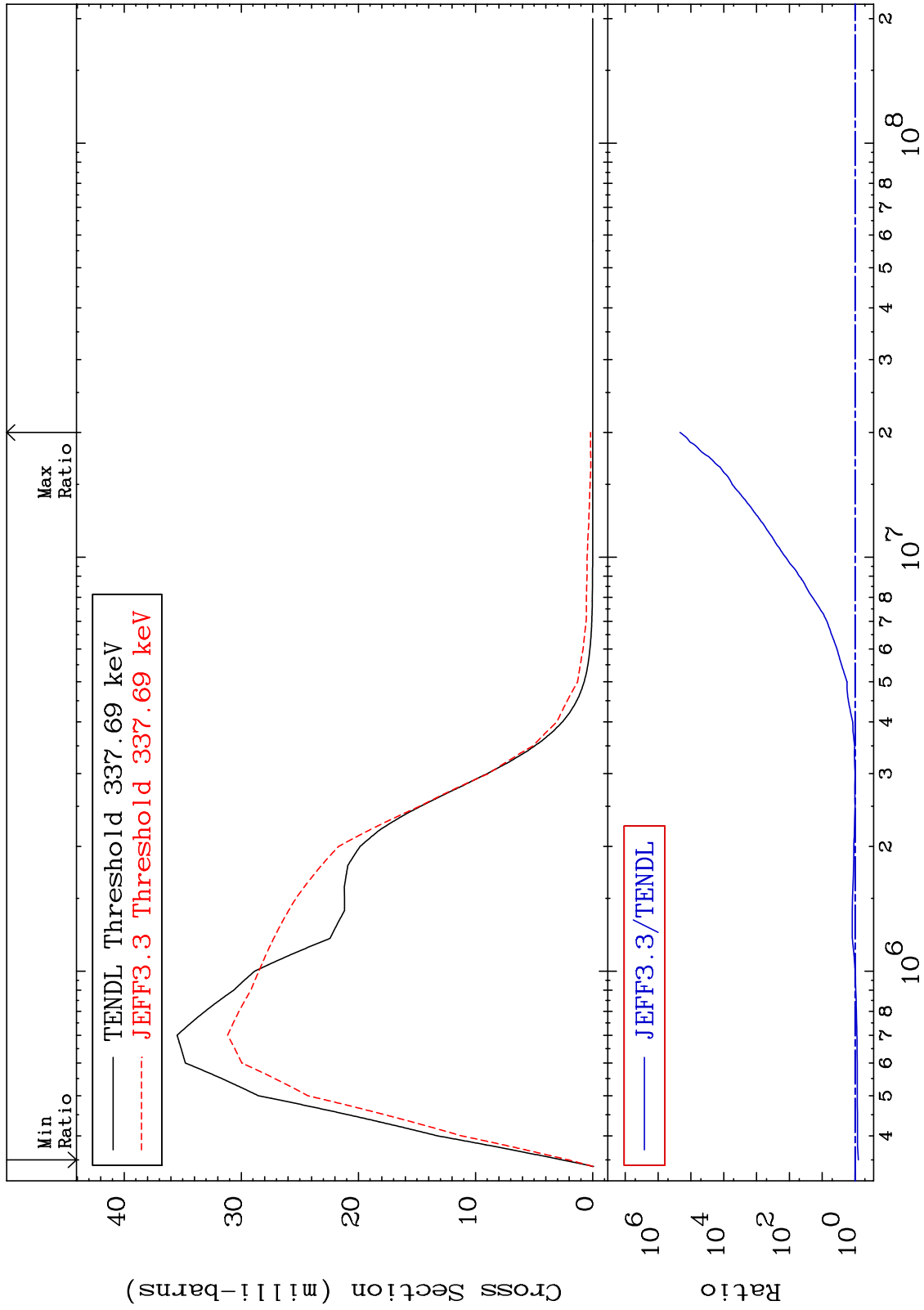
MAT 4128 MT= 56 (n,n') Level Cross Section 21.19 To 9999. % 41-Nb-94



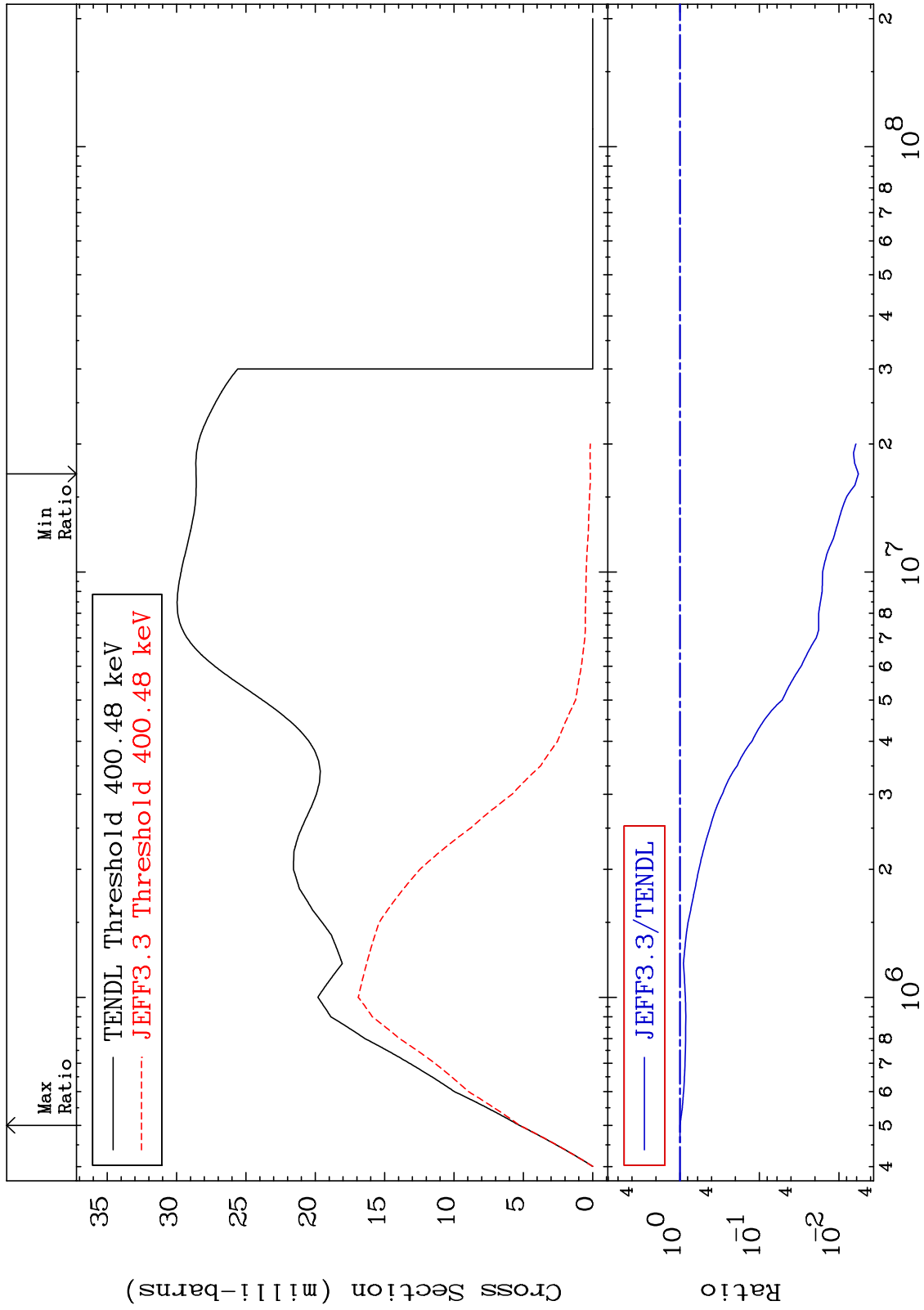
MAT 4128 MT= 57 (n,n') Level Cross Section -66.33 To 9999. % 41-Nb-94



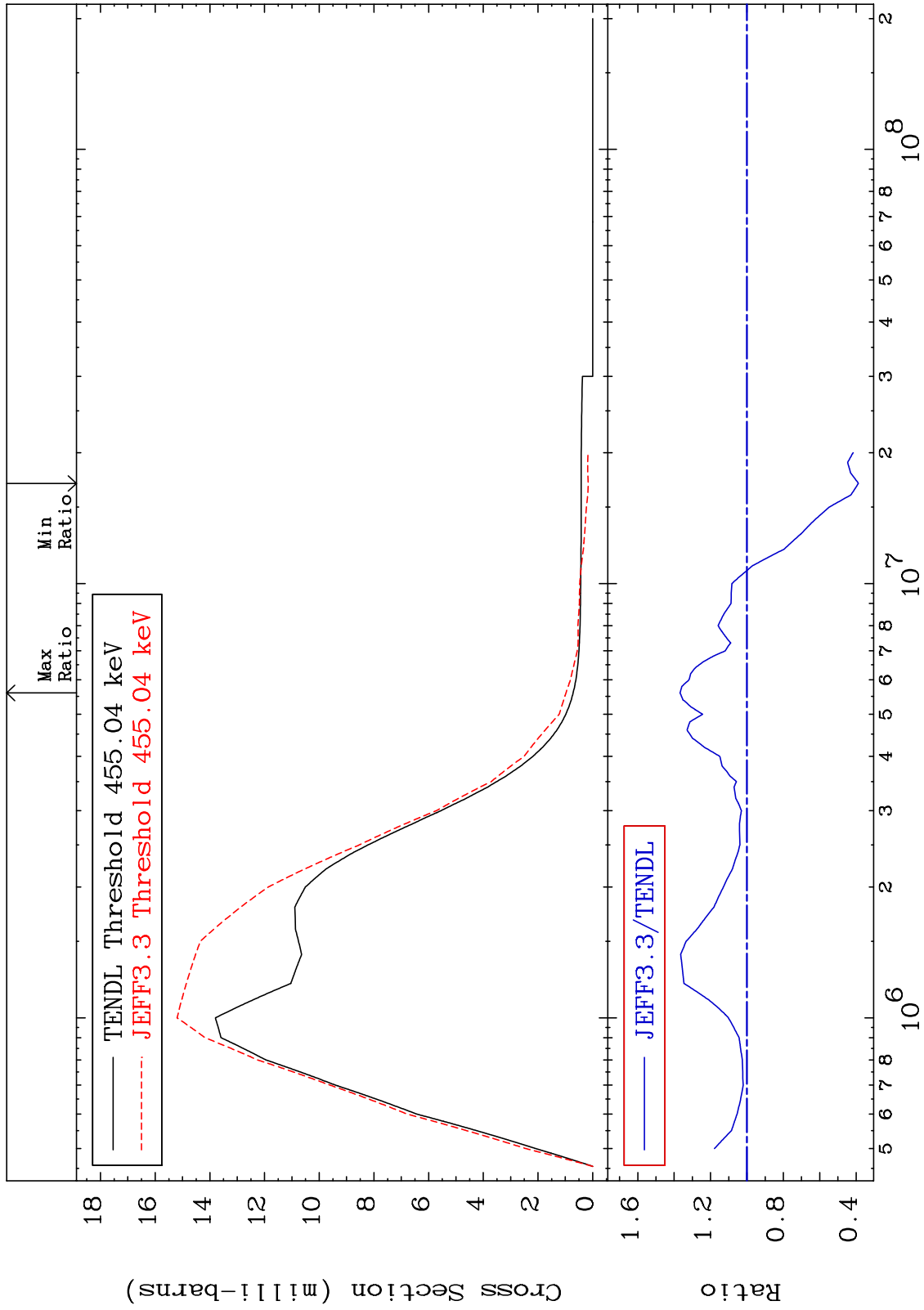
MAT 4128 MT= 58 (n,n') Level Cross Section 41-Nb-94
-20.86 To 9999. %



MAT 4128 MT= 59 (n, n') Level Cross Section 41-Nb-94 -99.43 To -0.370%

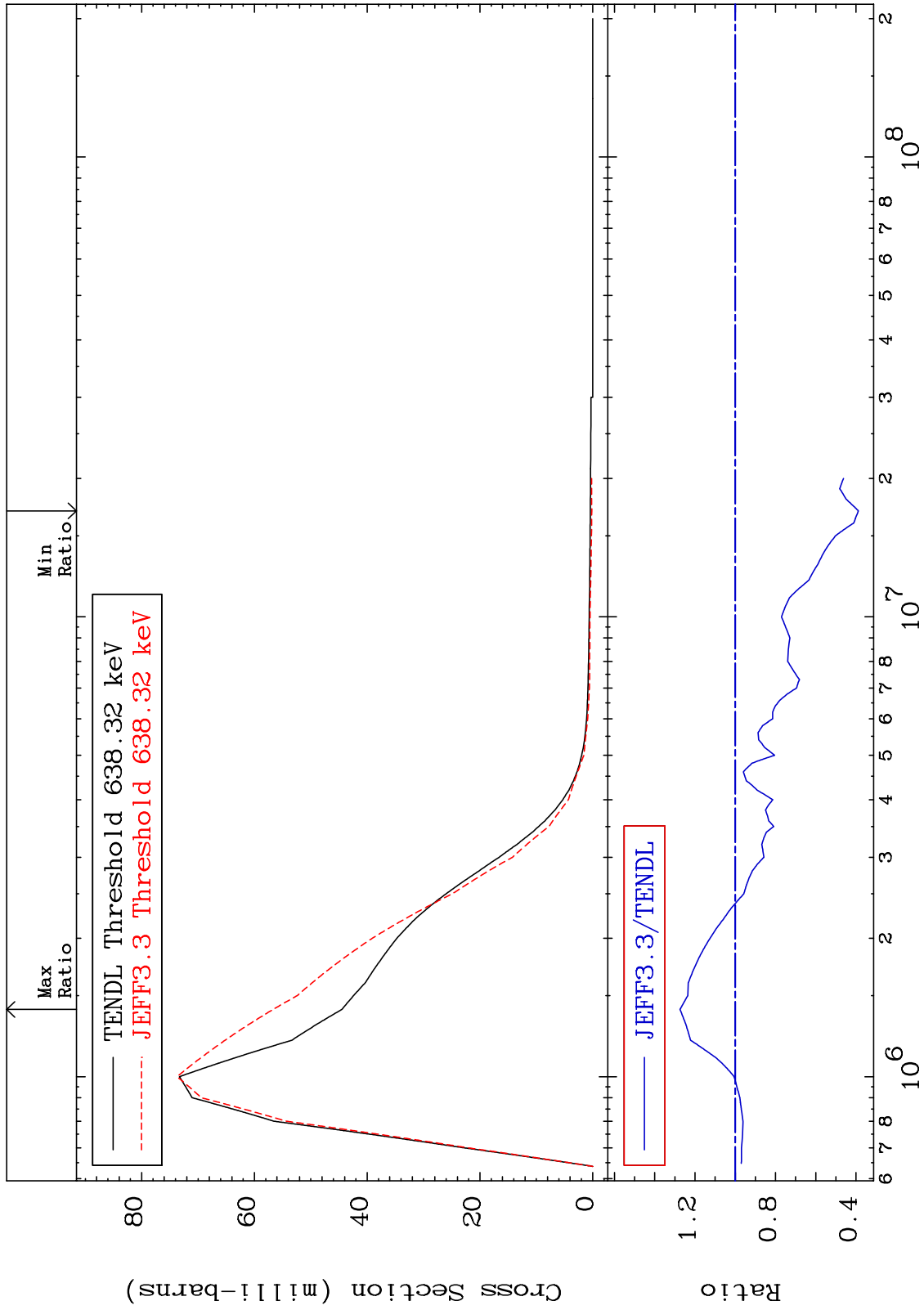


MAT 4128 MT= 60 (n,n') Level Cross Section 41-Nb-94
 -61.25 To 36.78 %



18 41-Nb-94

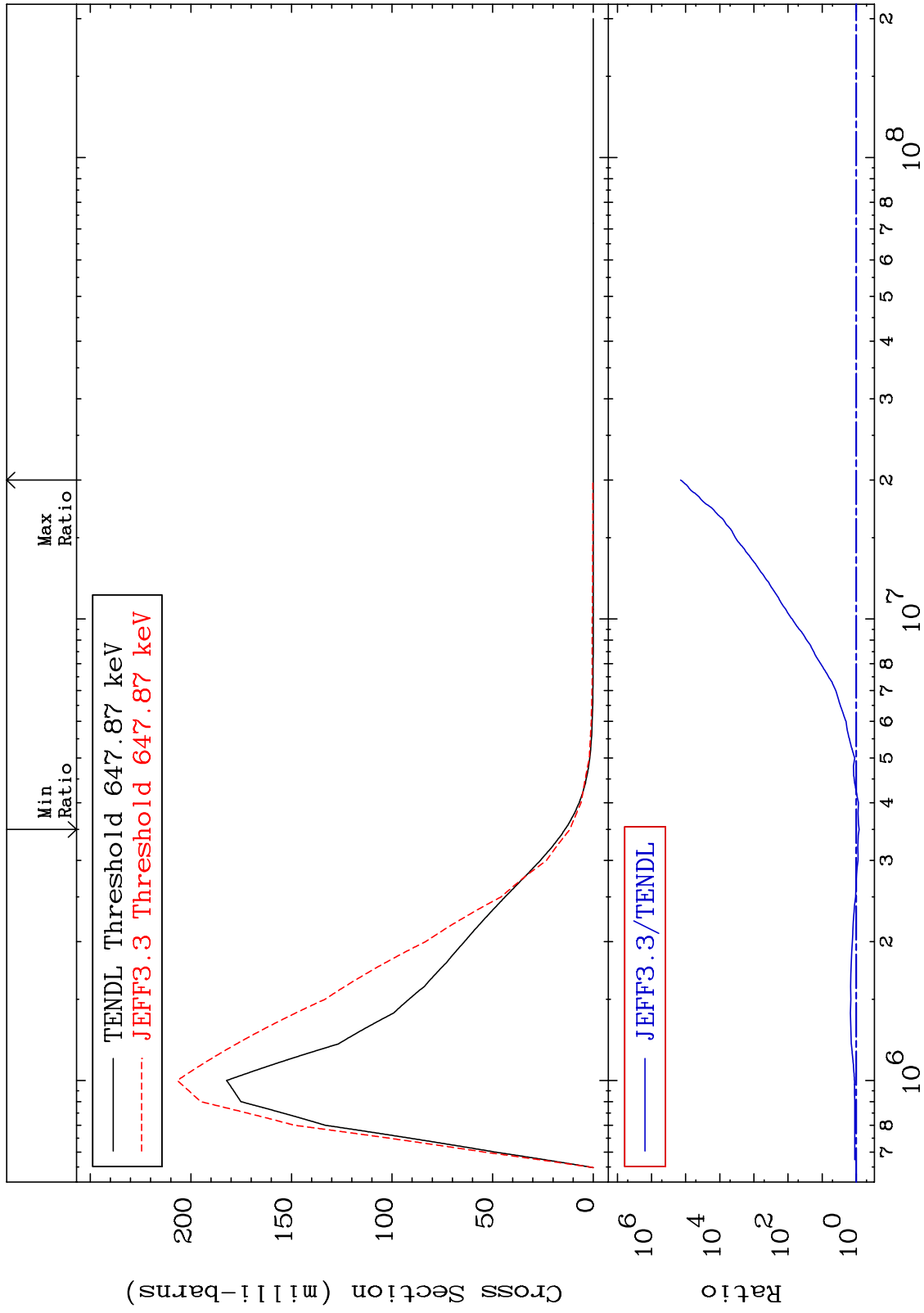
MAT 4128 MT= 61 (n,n') Level Cross Section -61.17 To 27.43 % 41-Nb-94



MAT 4128

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

41-Nb-94
-17.57 To 9999. %

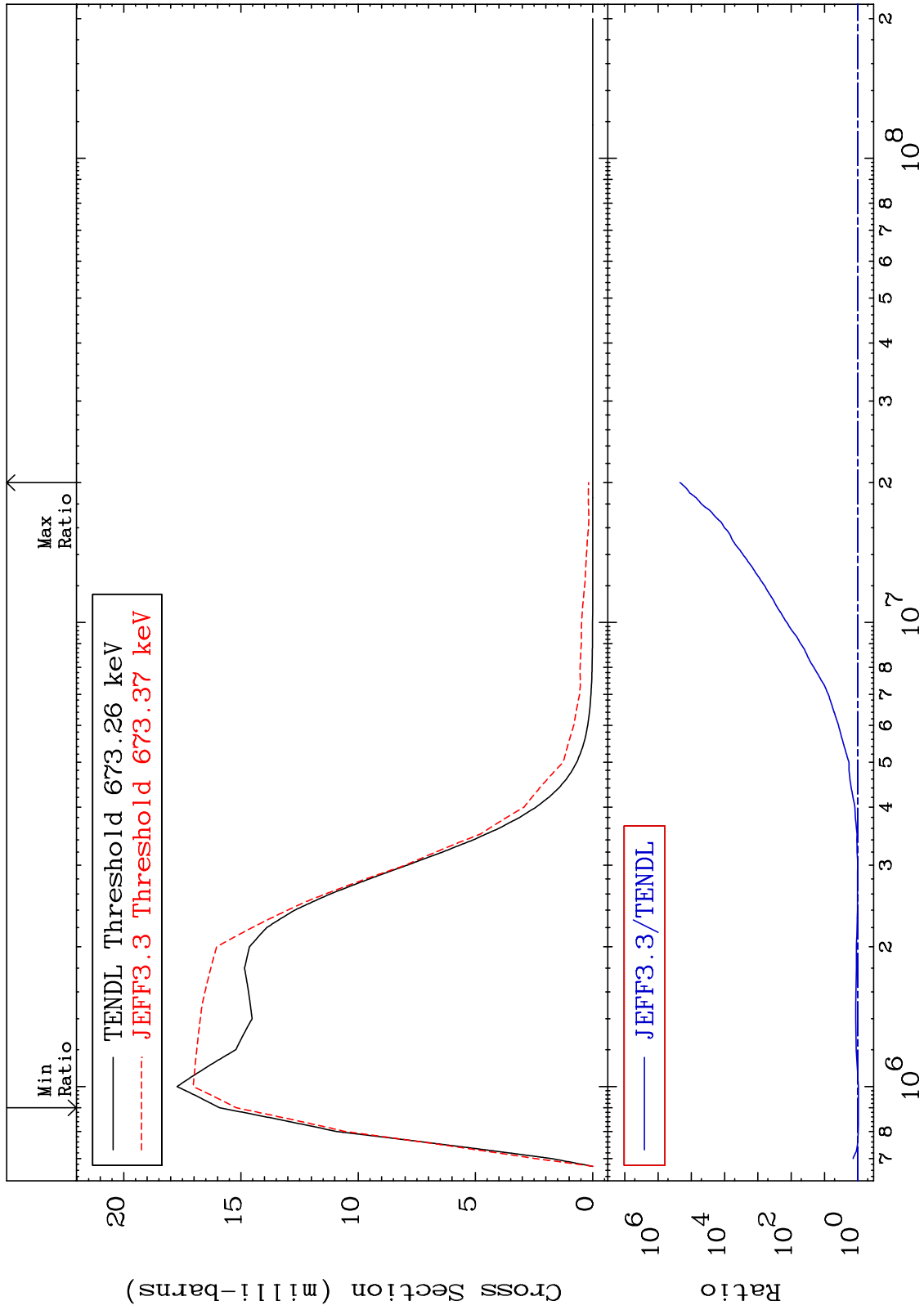


20

Incident Energy (eV)

41-Nb-94

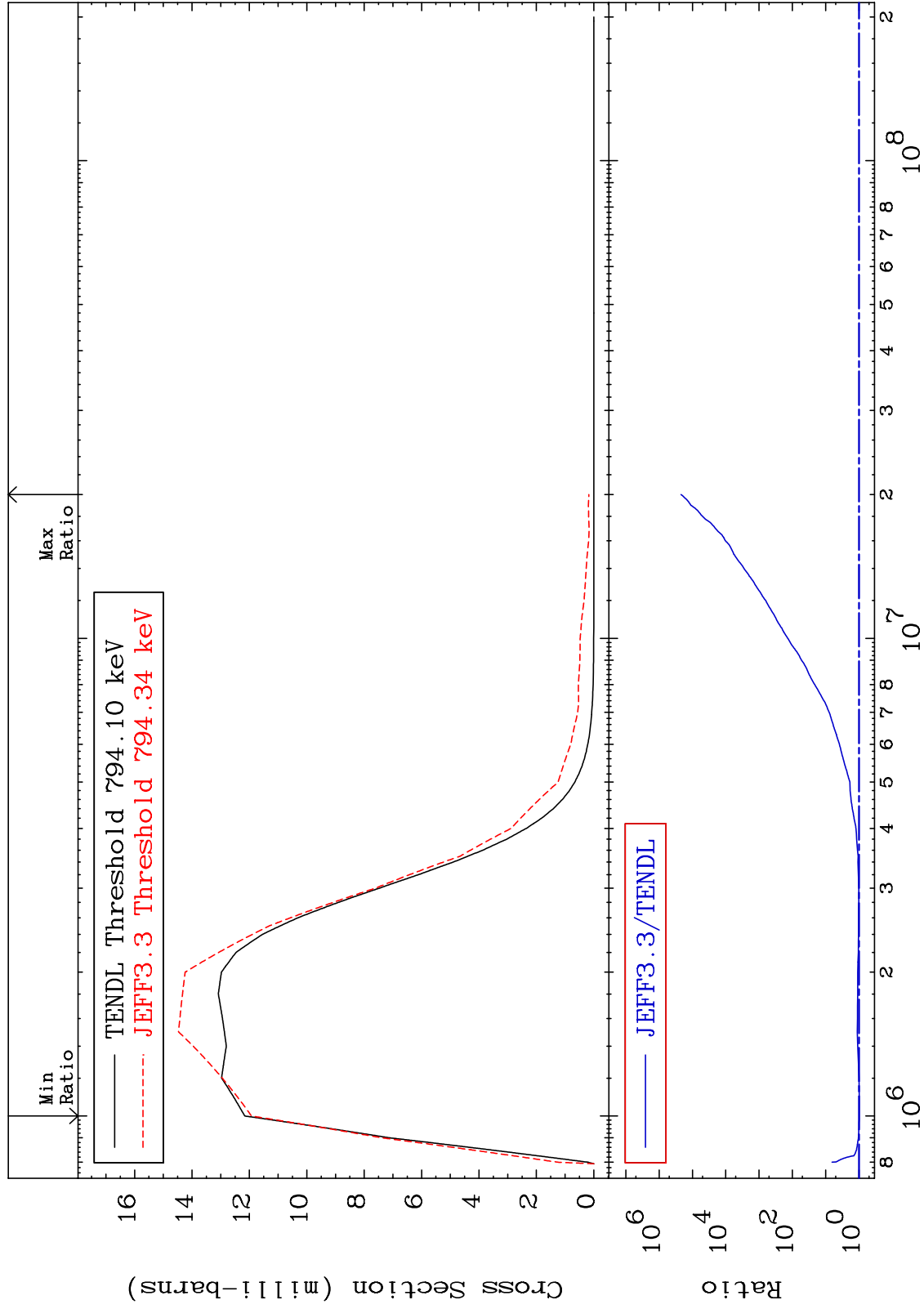
MAT 4128 MT= 63 (n,n') Level Cross Section -4.493 To 9999. % 41-Nb-94



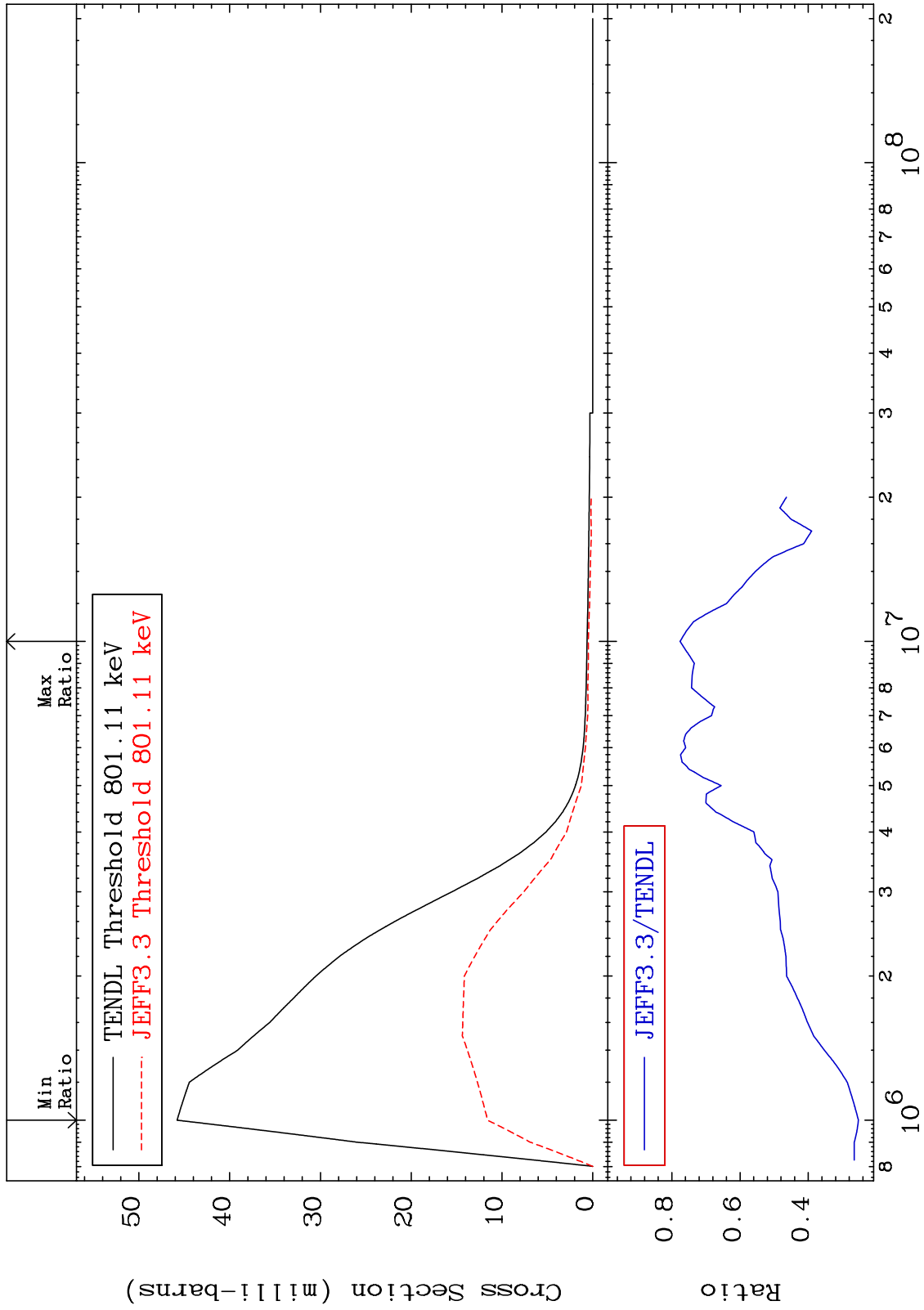
MAT 4128

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

41-Nb-94
-1.933 To 9999. %



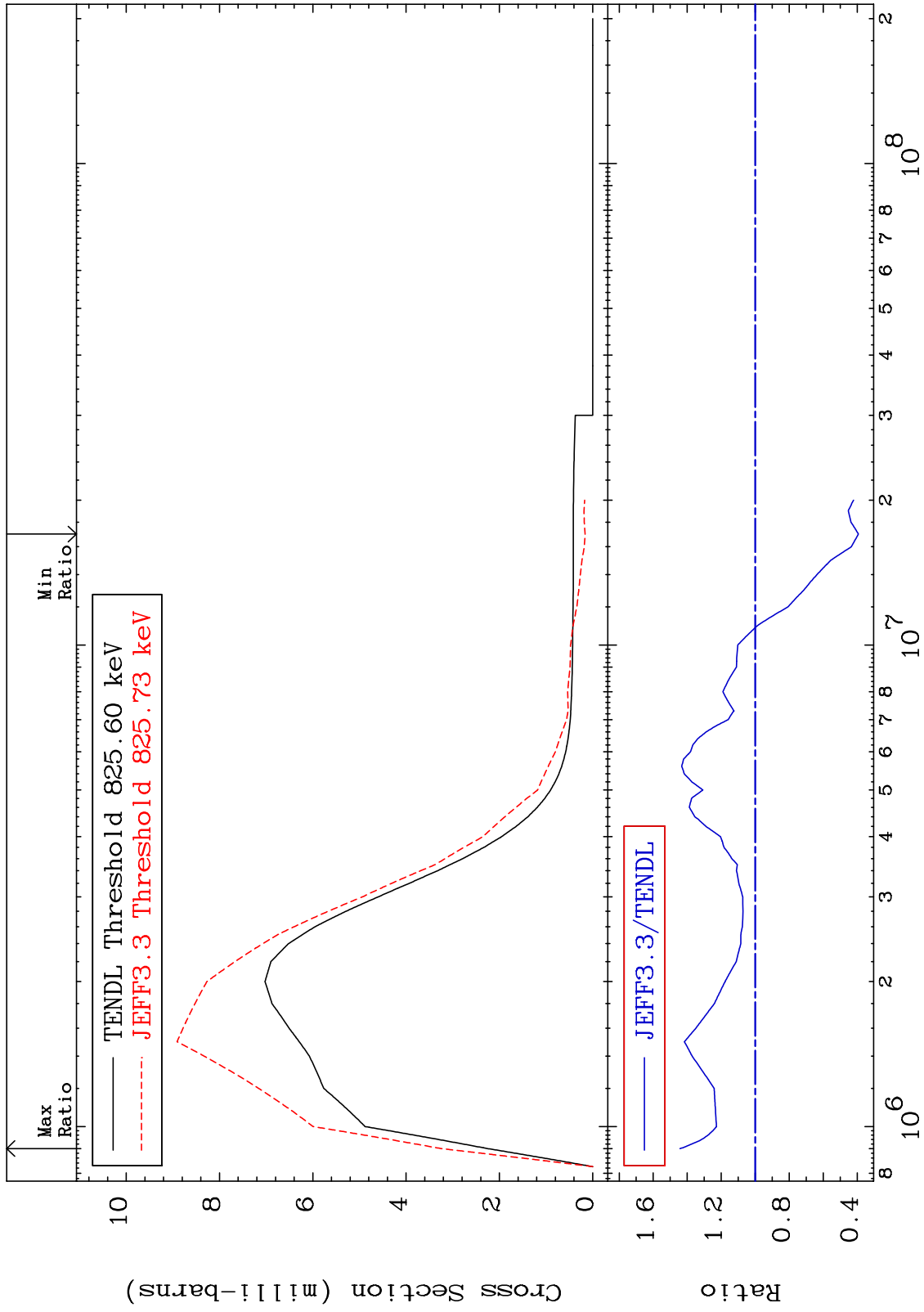
MAT 4128 MT= 65 (n,n') Level Cross Section -74.69 To -22.39% 41-Nb-94



MAT 4128

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

41-Nb-94
-60.73 To 44.23 %



24

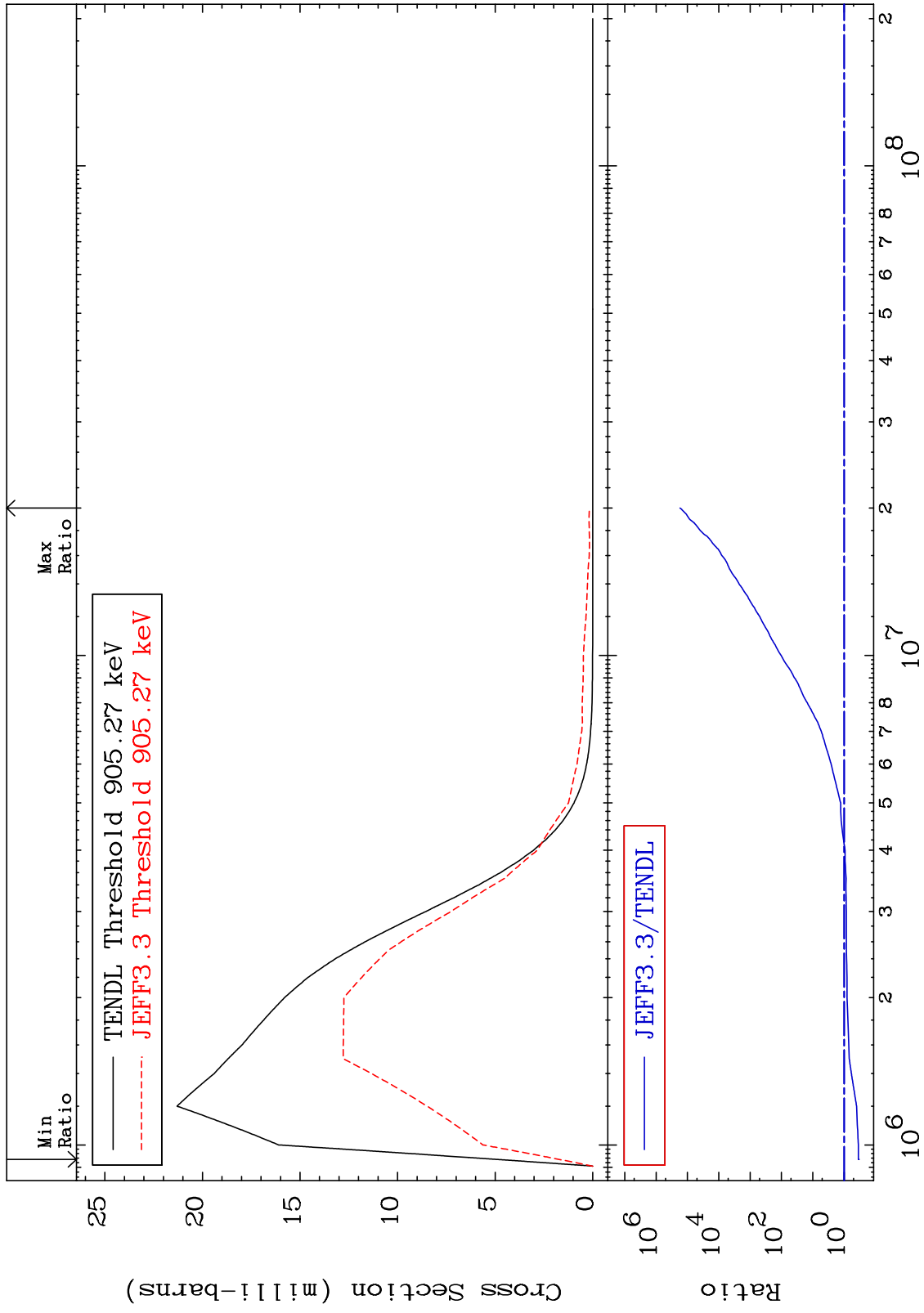
Incident Energy (eV)

41-Nb-94

MAT 4128

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

41-Nb-94
-65.04 To 9999. %



41-Nb-94

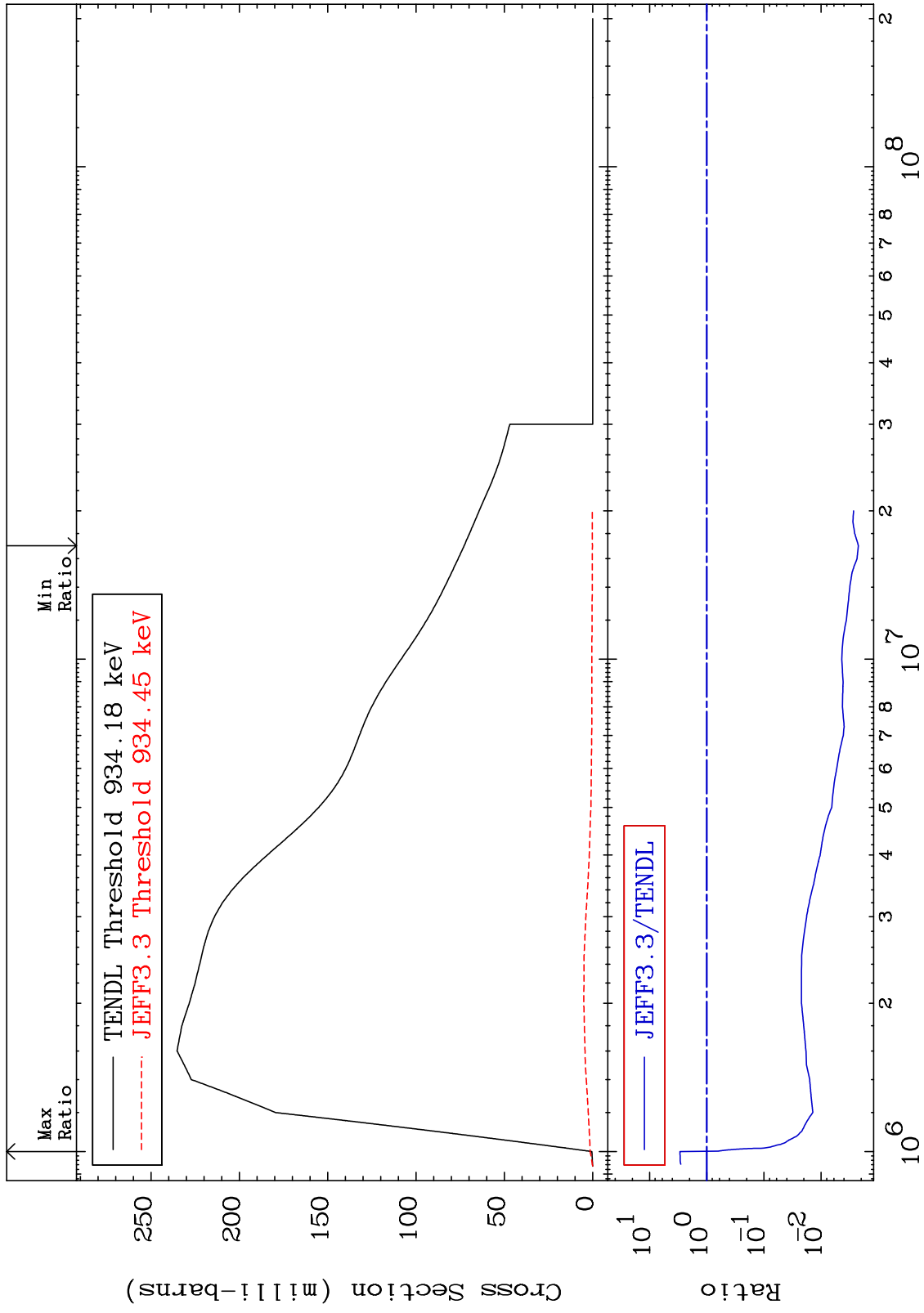
Incident Energy (eV)

25

MAT 4128

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

41-Nb-94
-99.78 To 193.1 %



26

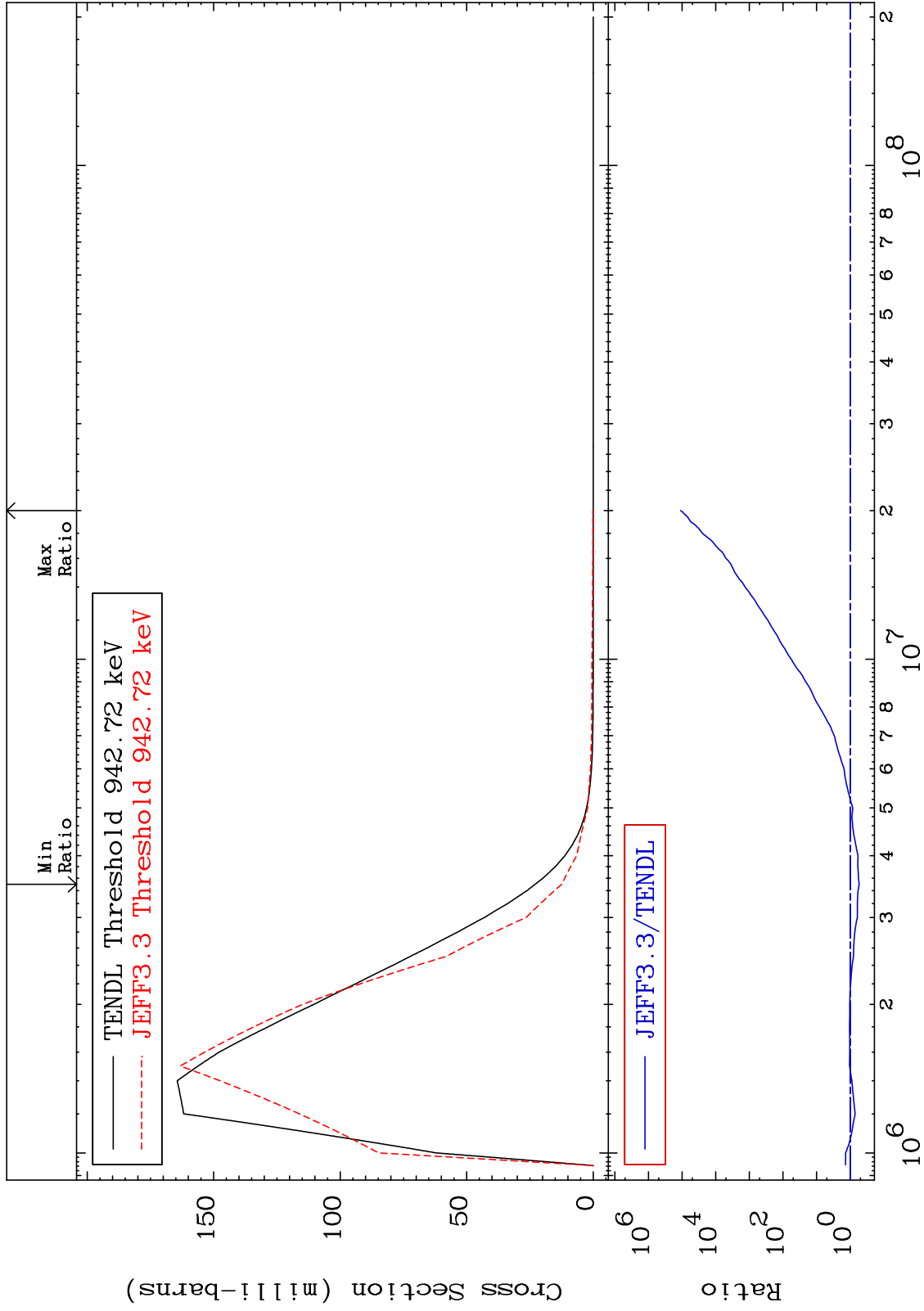
Incident Energy (eV)

41-Nb-94

MAT 4128

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

41-Nb-94
-45.78 To 9999. %



27

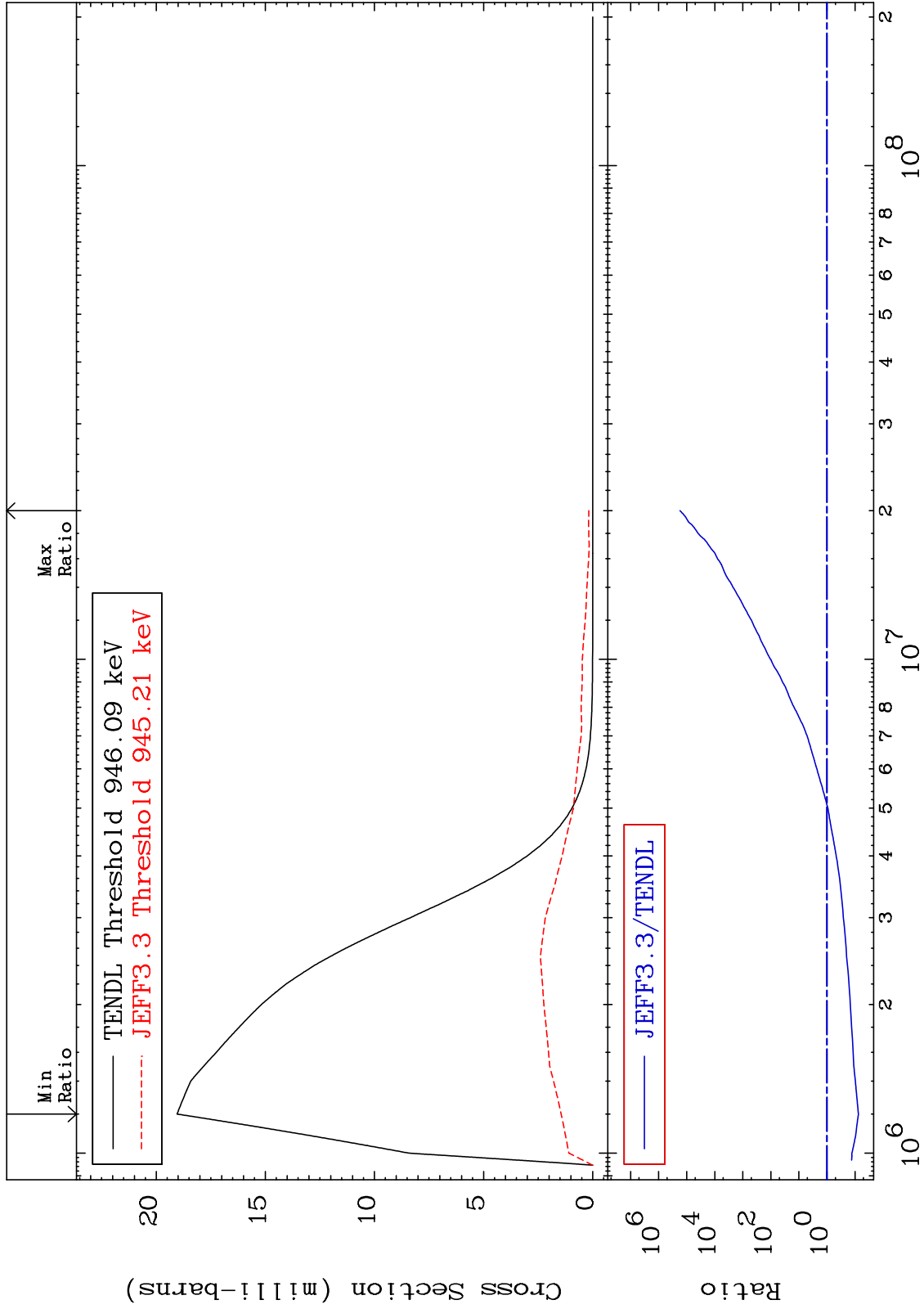
Incident Energy (eV)

41-Nb-94

MAT 4128

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

41-Nb-94
-92.42 To 9999. %



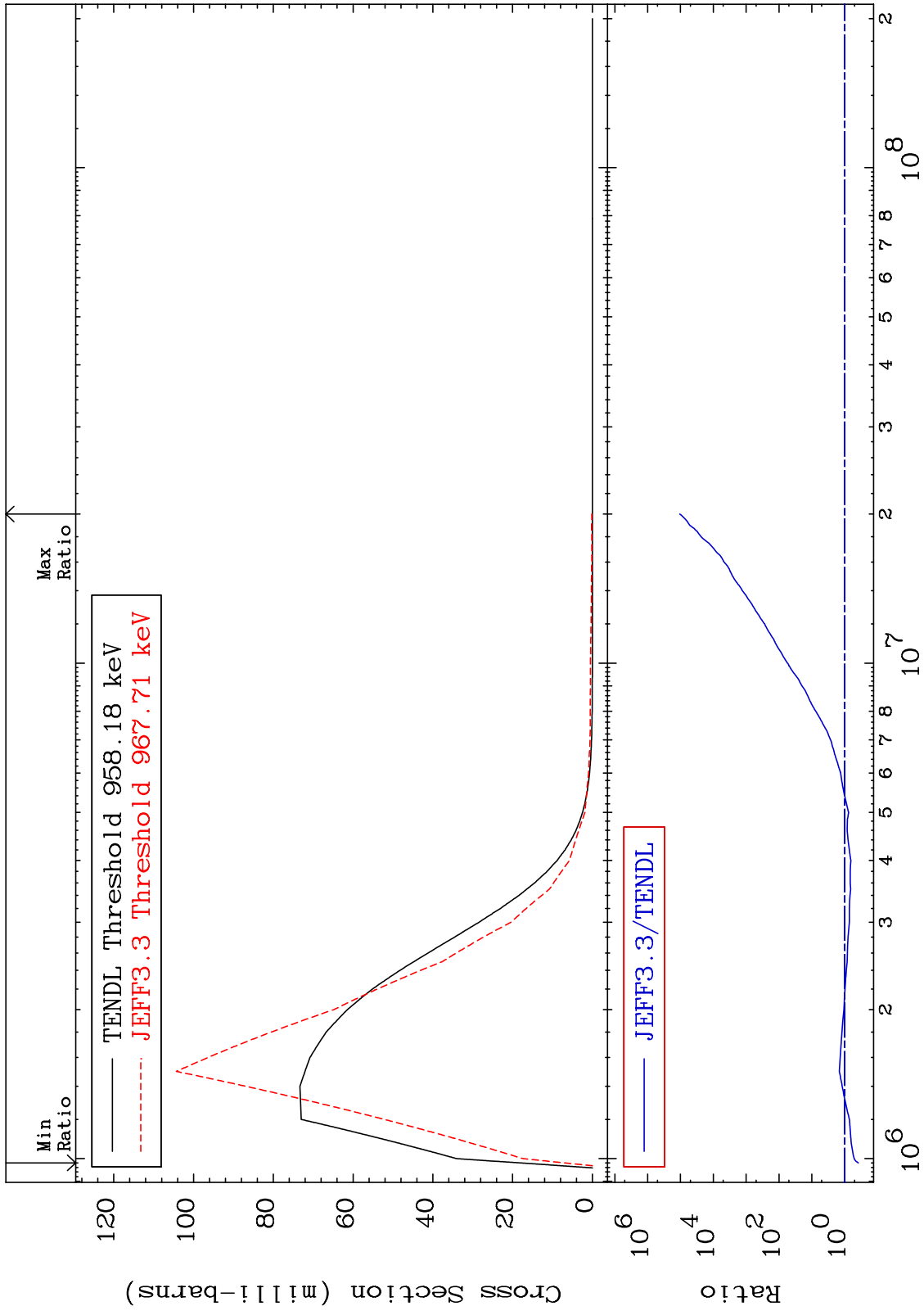
28

41-Nb-94

MAT 4128

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

41-Nb-94
-61.71 To 9999. %



29

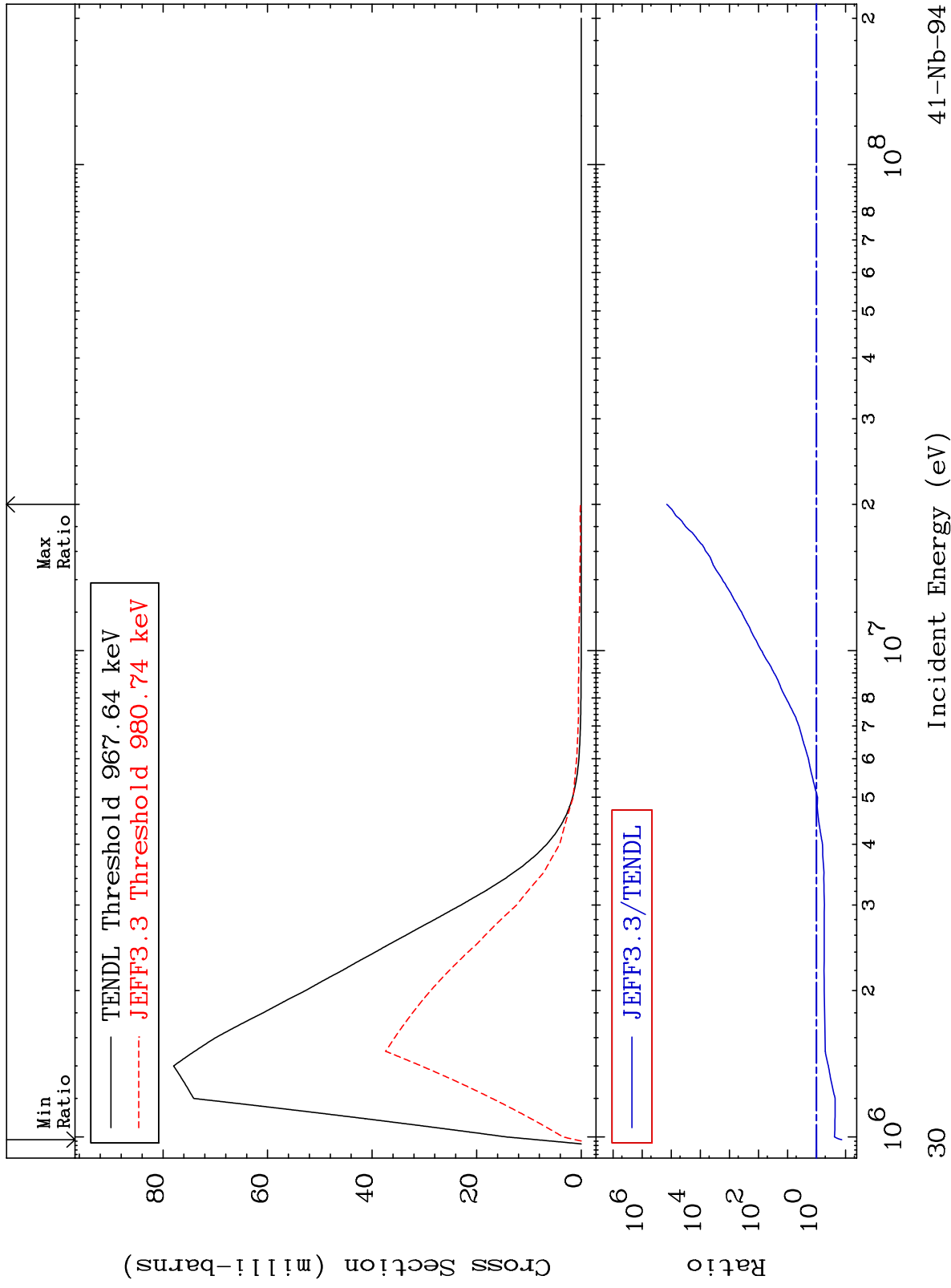
Incident Energy (eV)

41-Nb-94

MAT 4128

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

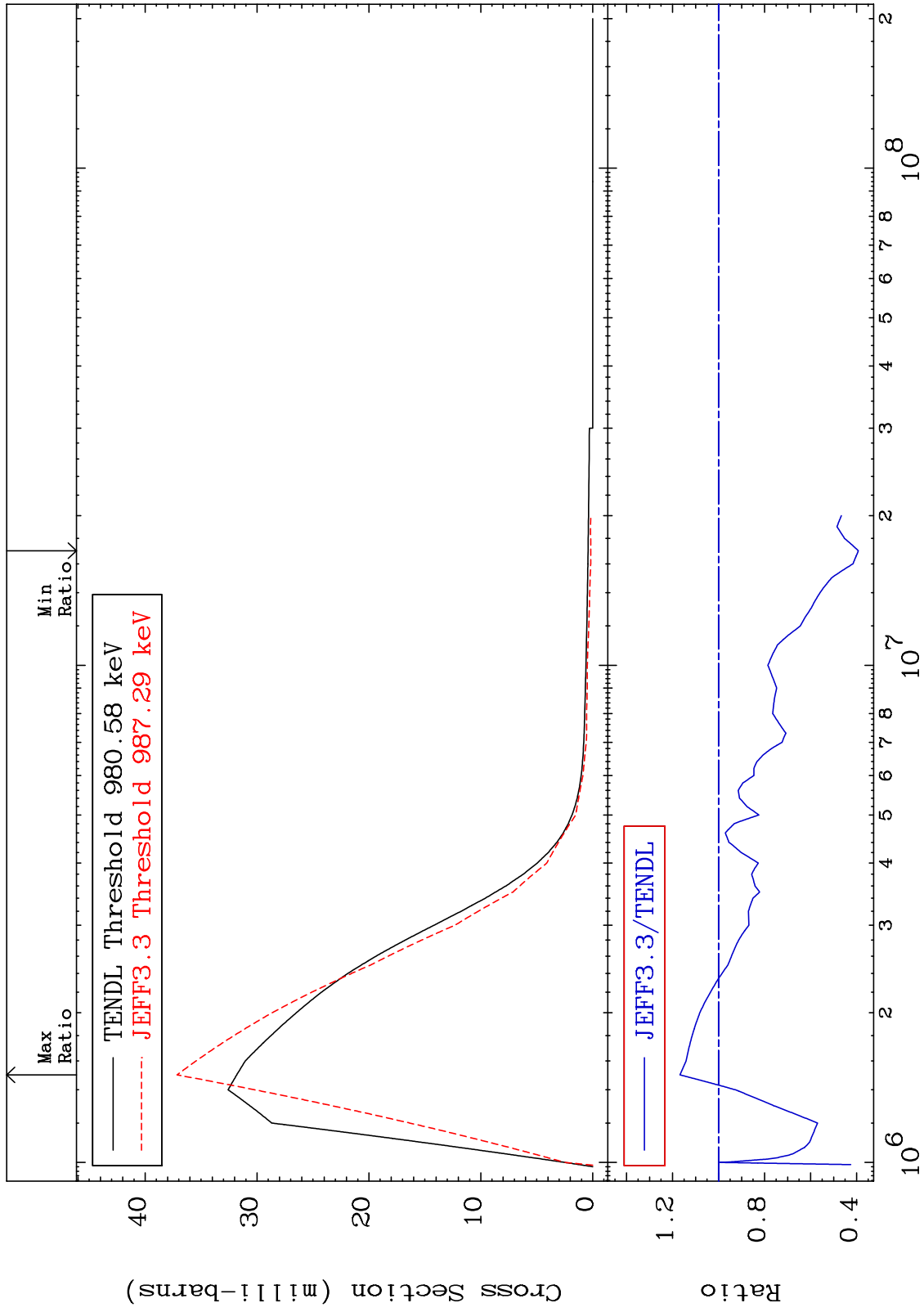
41-Nb-94
-86.42 To 9999. %



MAT 4128

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

41-Nb-94
-60.76 To 16.76 %



31

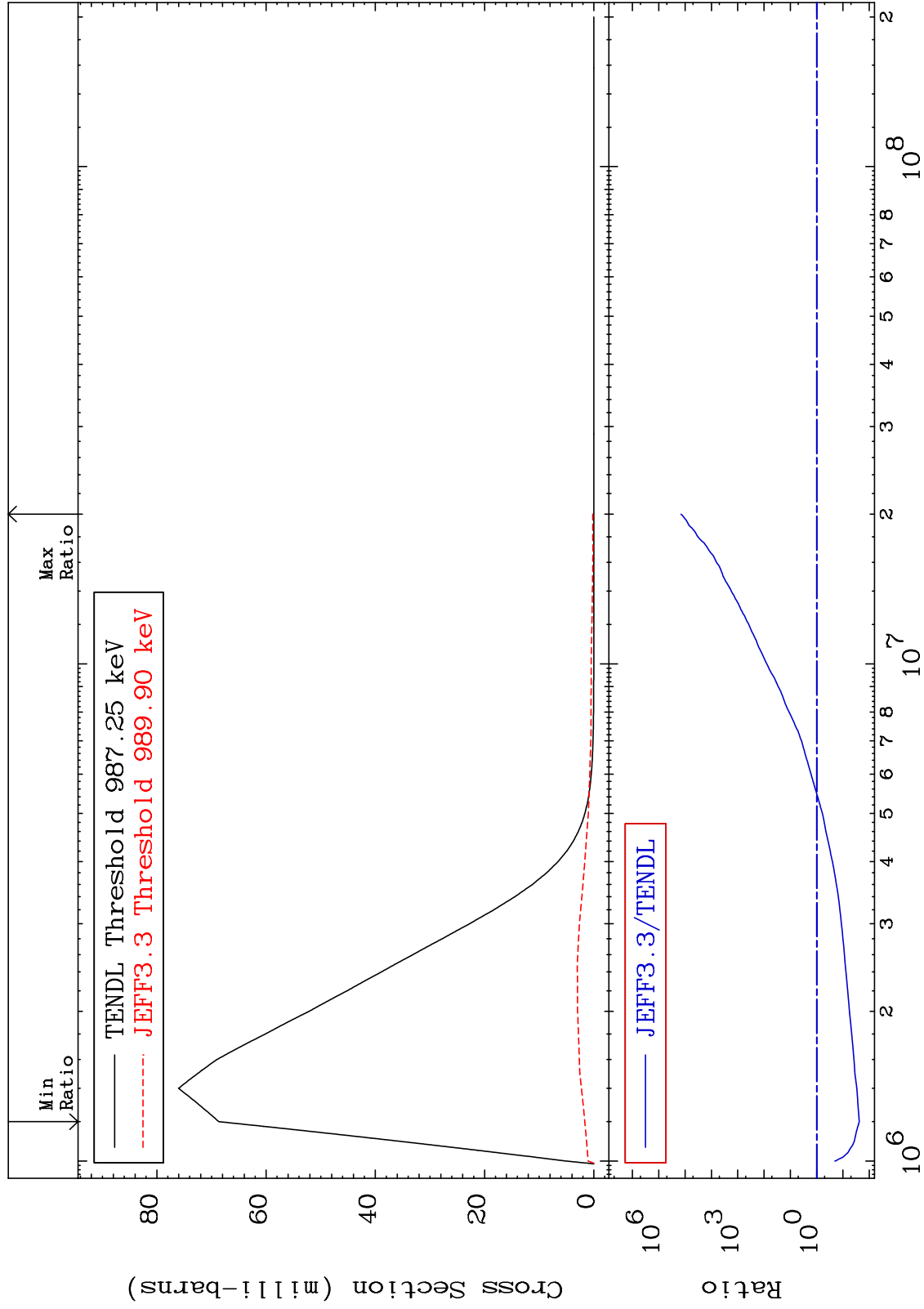
Incident Energy (eV)

41-Nb-94

MAT 4128

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

41-Nb-94
-97.60 To 9999. %



41-Nb-94

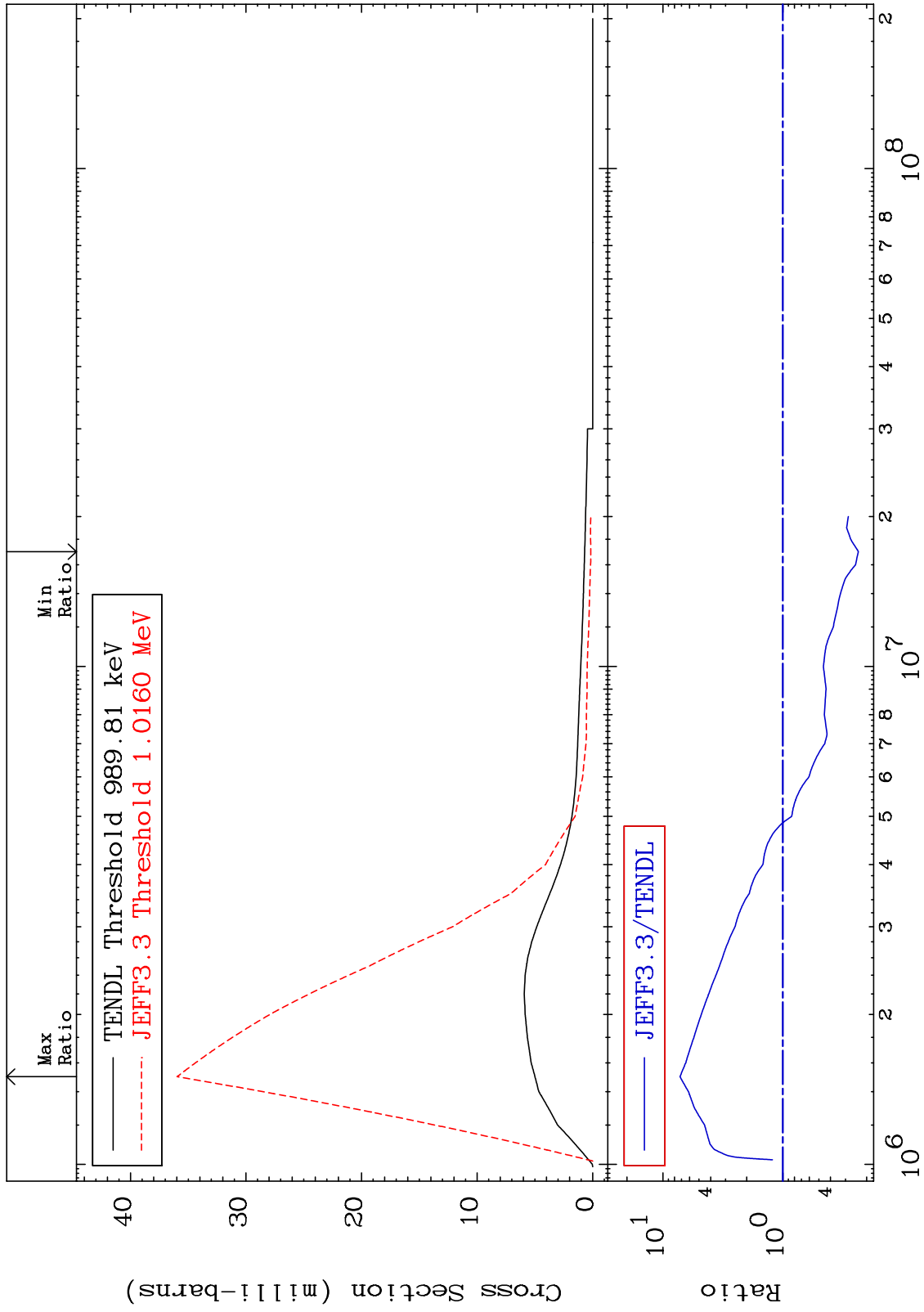
Incident Energy (eV)

32

MAT 4128

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

41-Nb-94
-76.61 To 620.2 %



Incident Energy (eV)

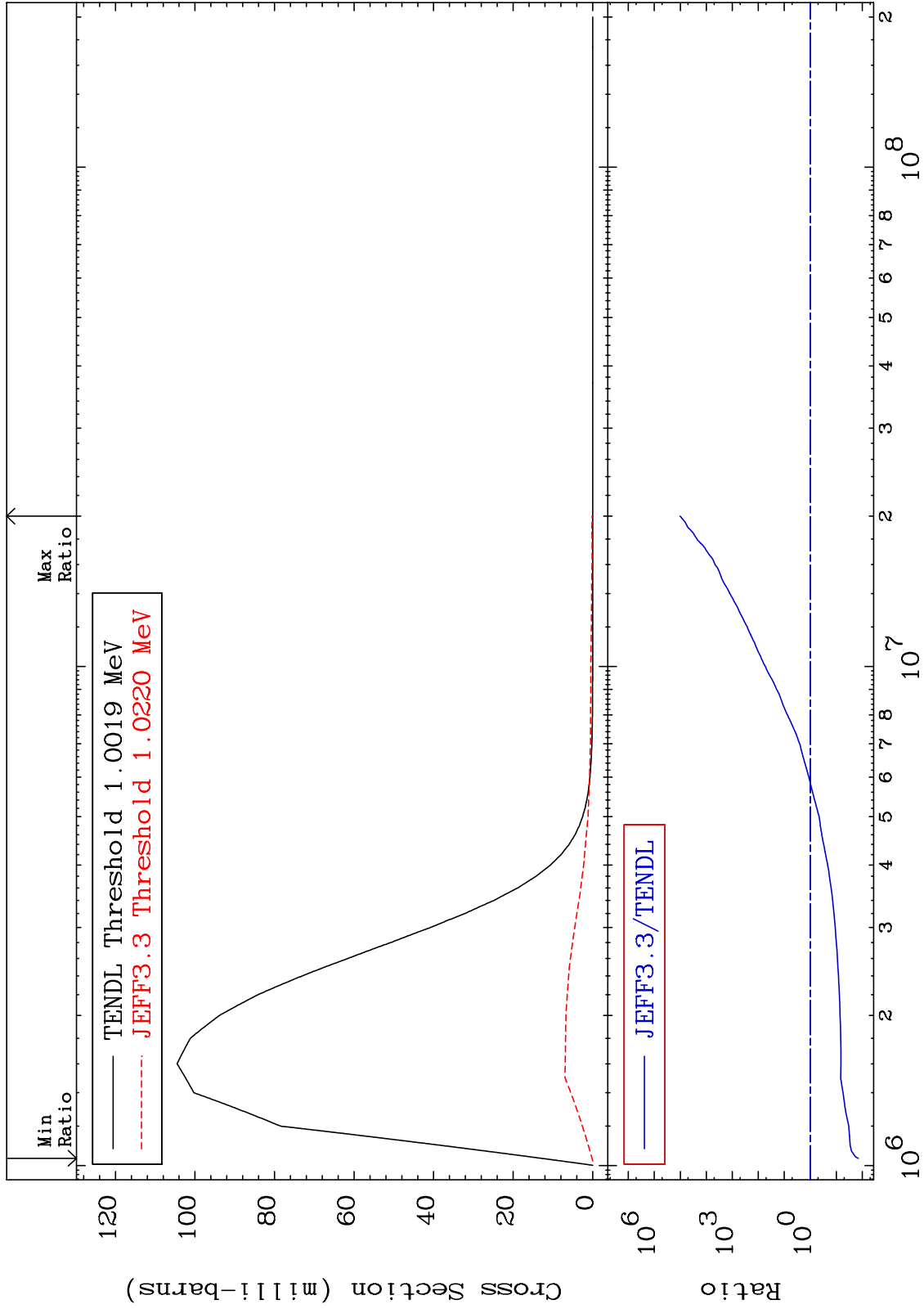
41-Nb-94

33

MAT 4128

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

41-Nb-94
-98.59 To 9999. %



34

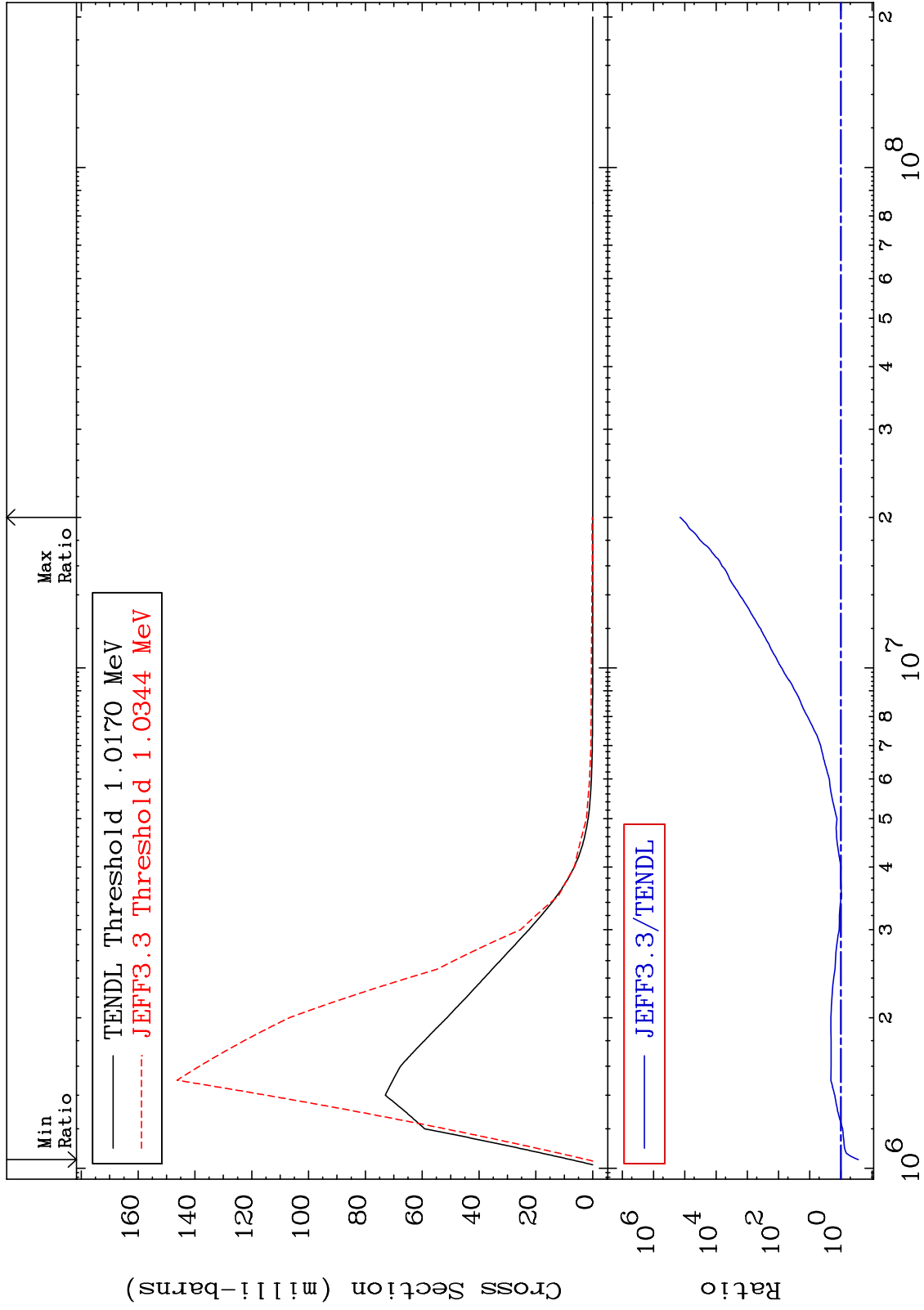
Incident Energy (eV)

41-Nb-94

MAT 4128

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

41-Nb-94
-72.55 To 9999. %

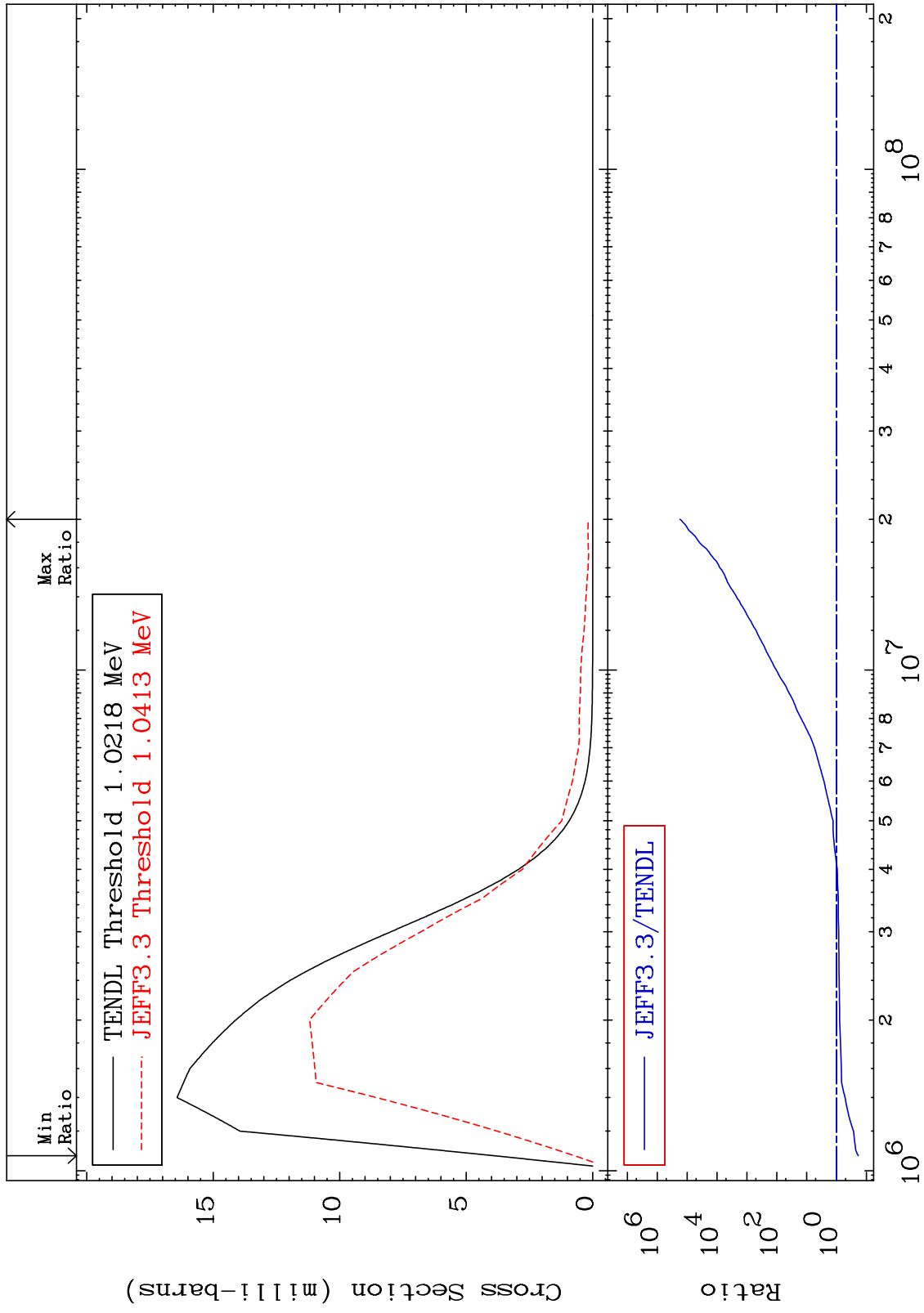


35

Incident Energy (eV)

41-Nb-94

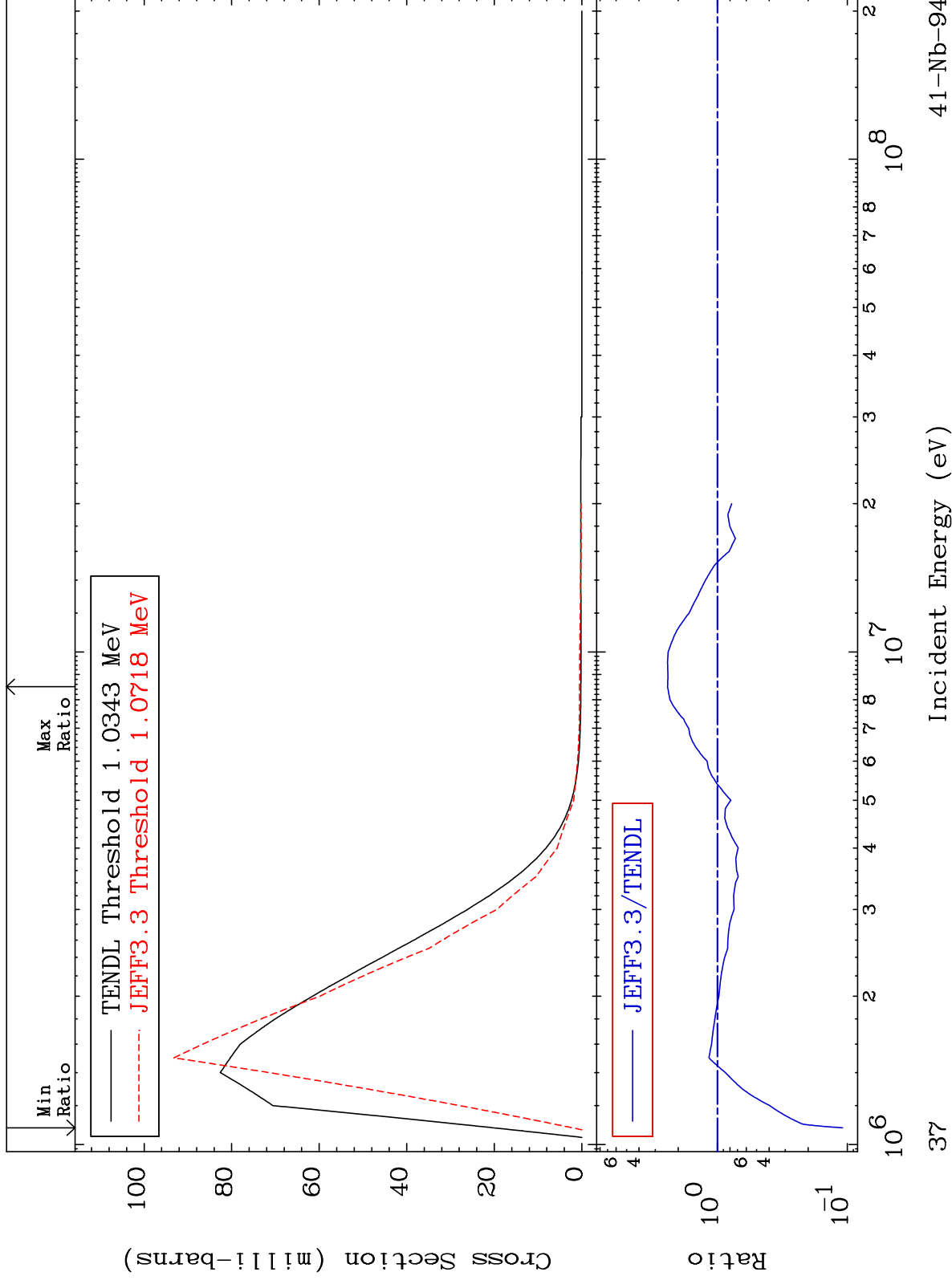
MAT 4128 MT= 78 (n,n') Level Cross Section -81.42 To 9999. % 41-Nb-94



MAT 4128

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

41-Nb-94
-89.13 To 141.6 %



41-Nb-94

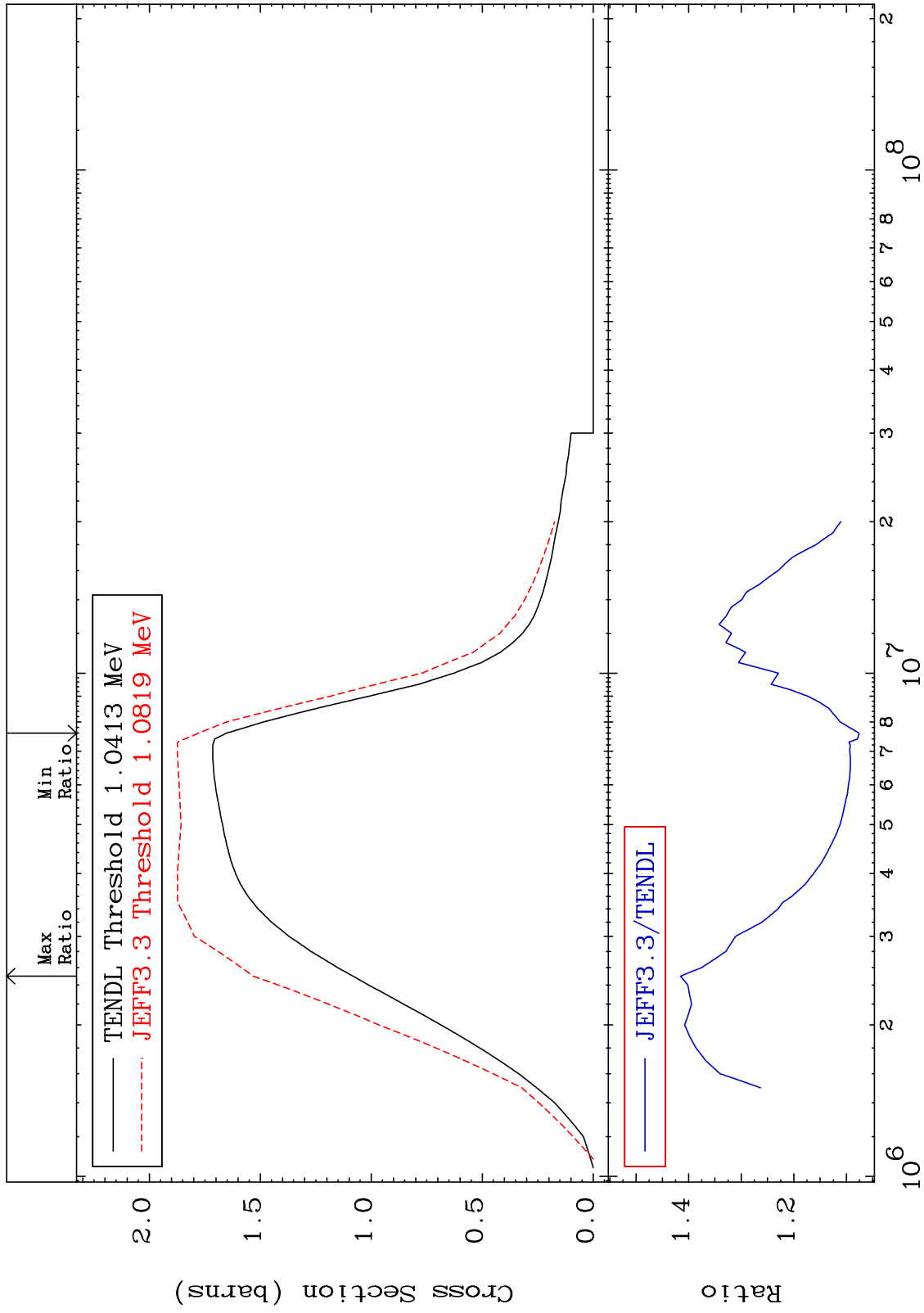
Incident Energy (eV)

37

MAT 4128

(n, n') Continuum
Cross Section

41-Nb-94
7.574 To 41.52 %



38

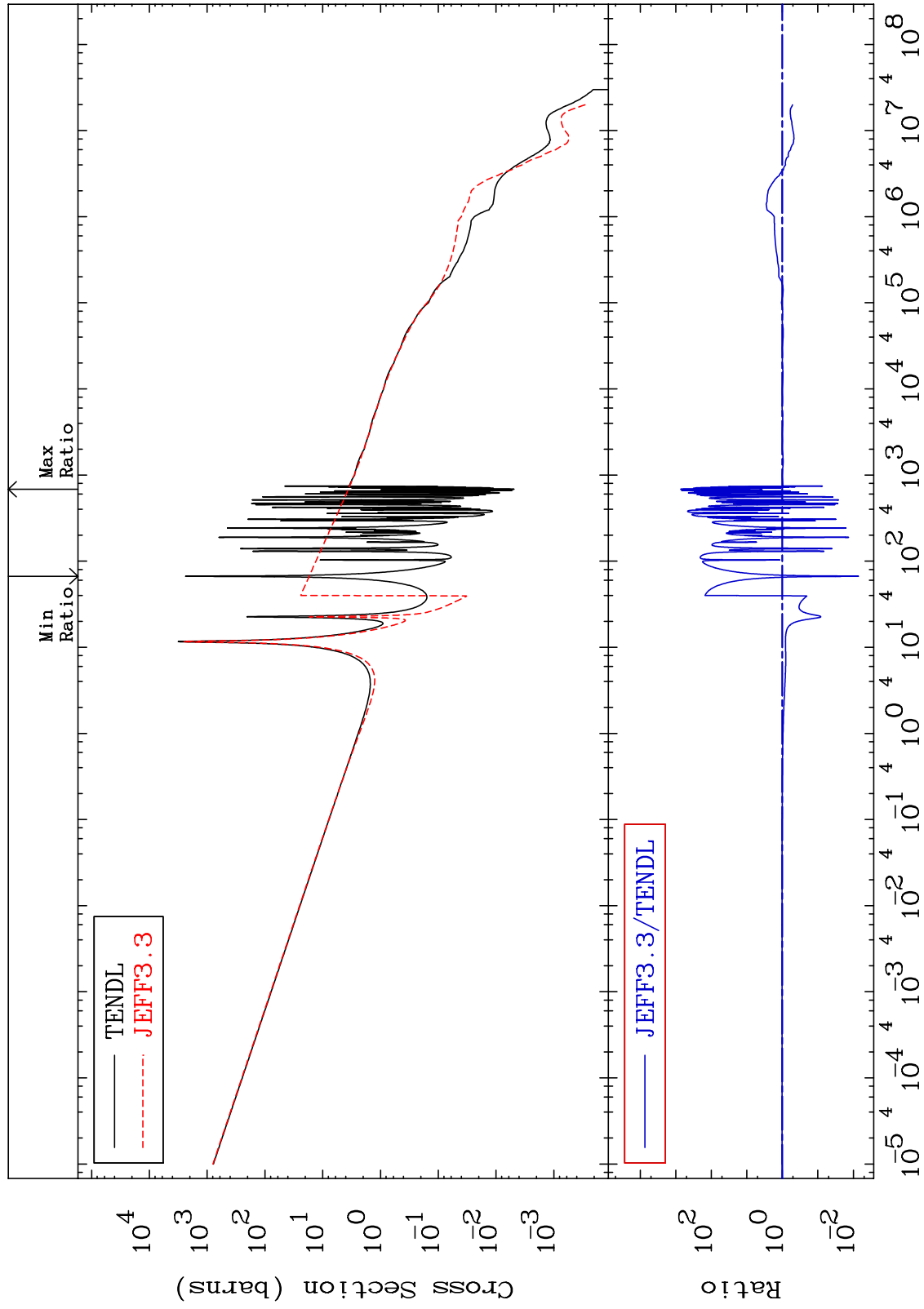
Incident Energy (eV)

41-Nb-94

MAT 4128

(n, γ)
Cross Section

41-Nb-94
-99.28 To 9999. %



39

Incident Energy (eV)

41-Nb-94

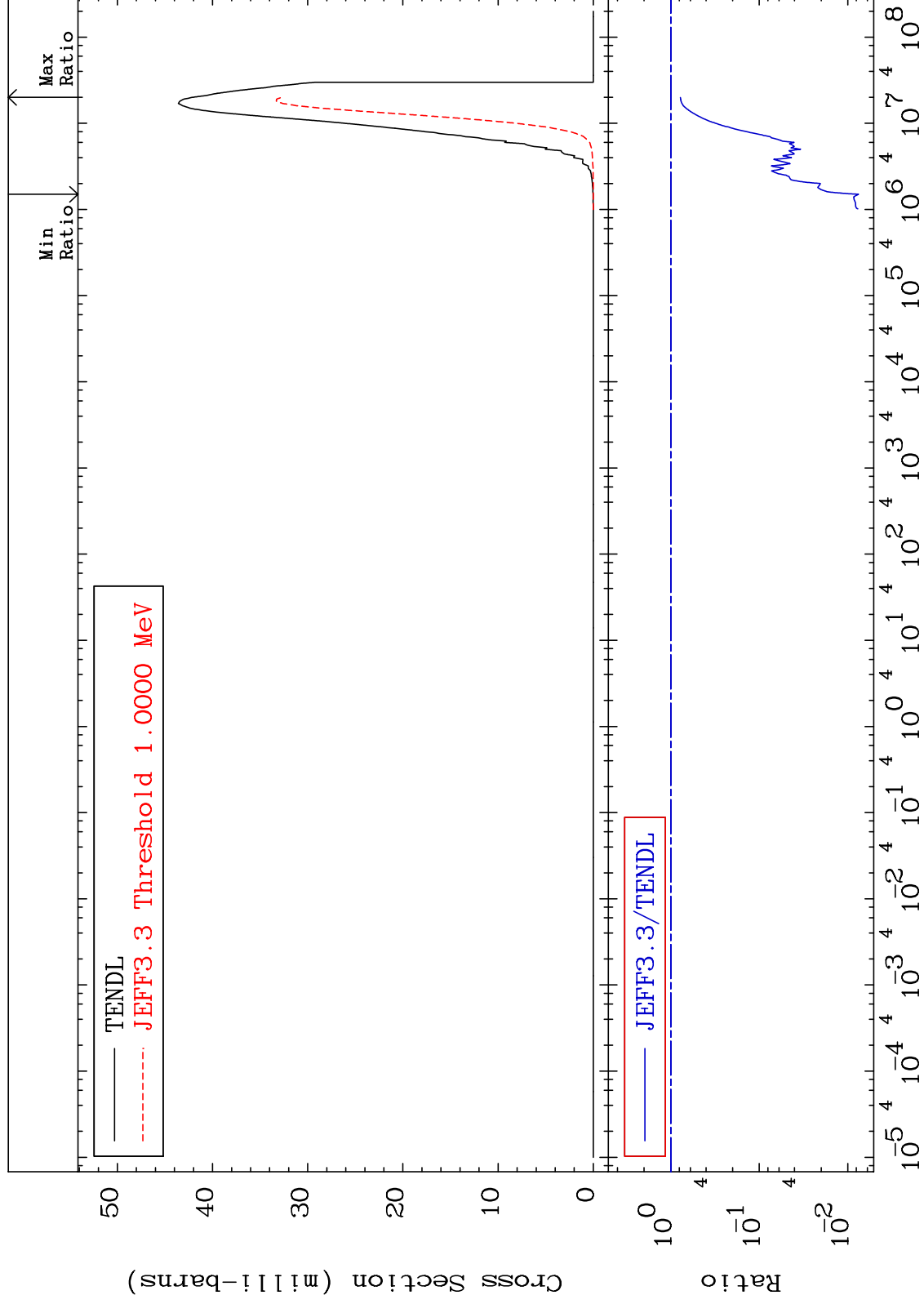
MAT 4128

(n,p)

41-Nb-94

Cross Section

-99.24 To -22.28%



40

Incident Energy (eV)

41-Nb-94

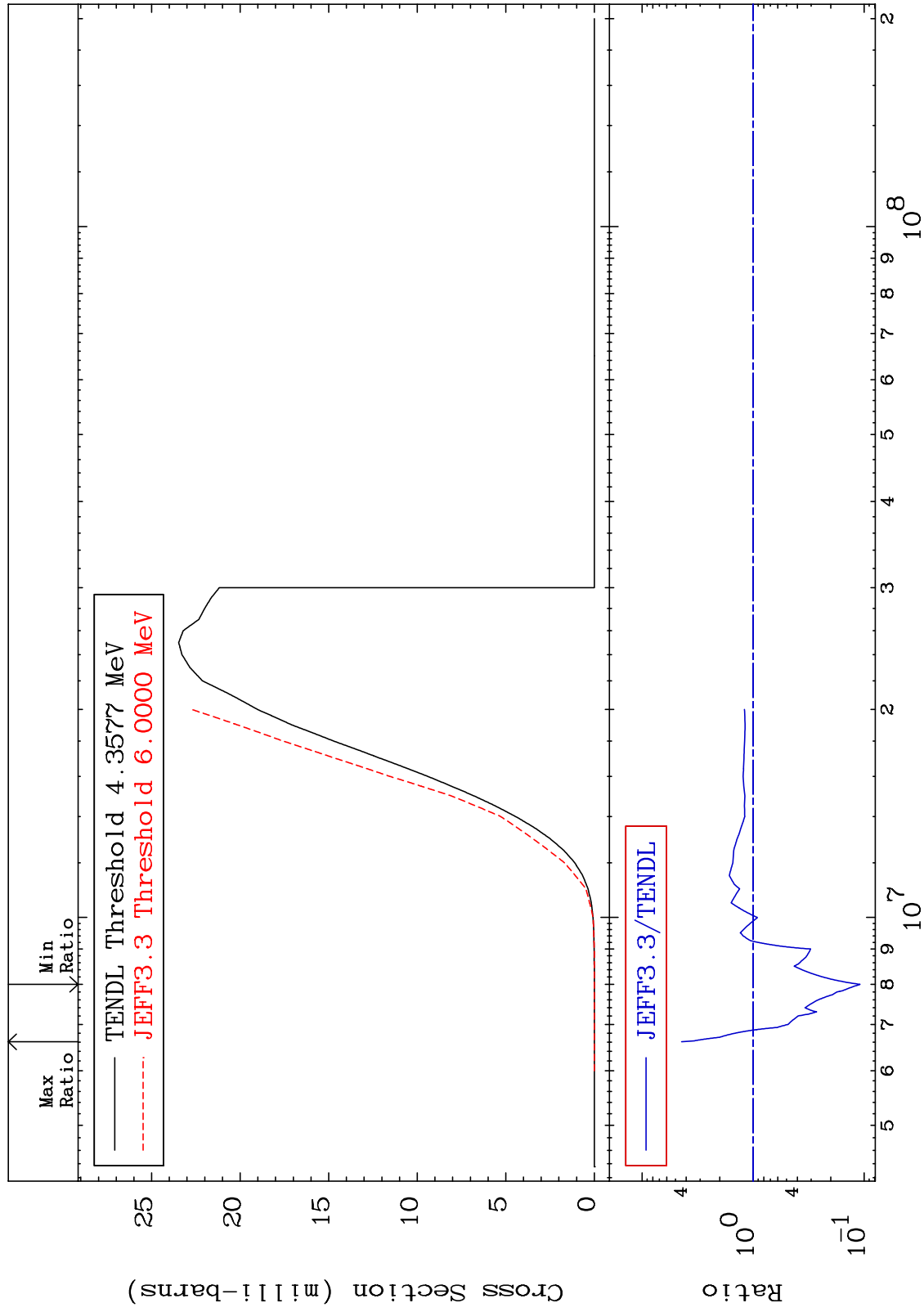
MAT 4128

(n, d)

41-Nb-94

Cross Section

-89.11 To 339.9 %



41

Incident Energy (eV)

41-Nb-94

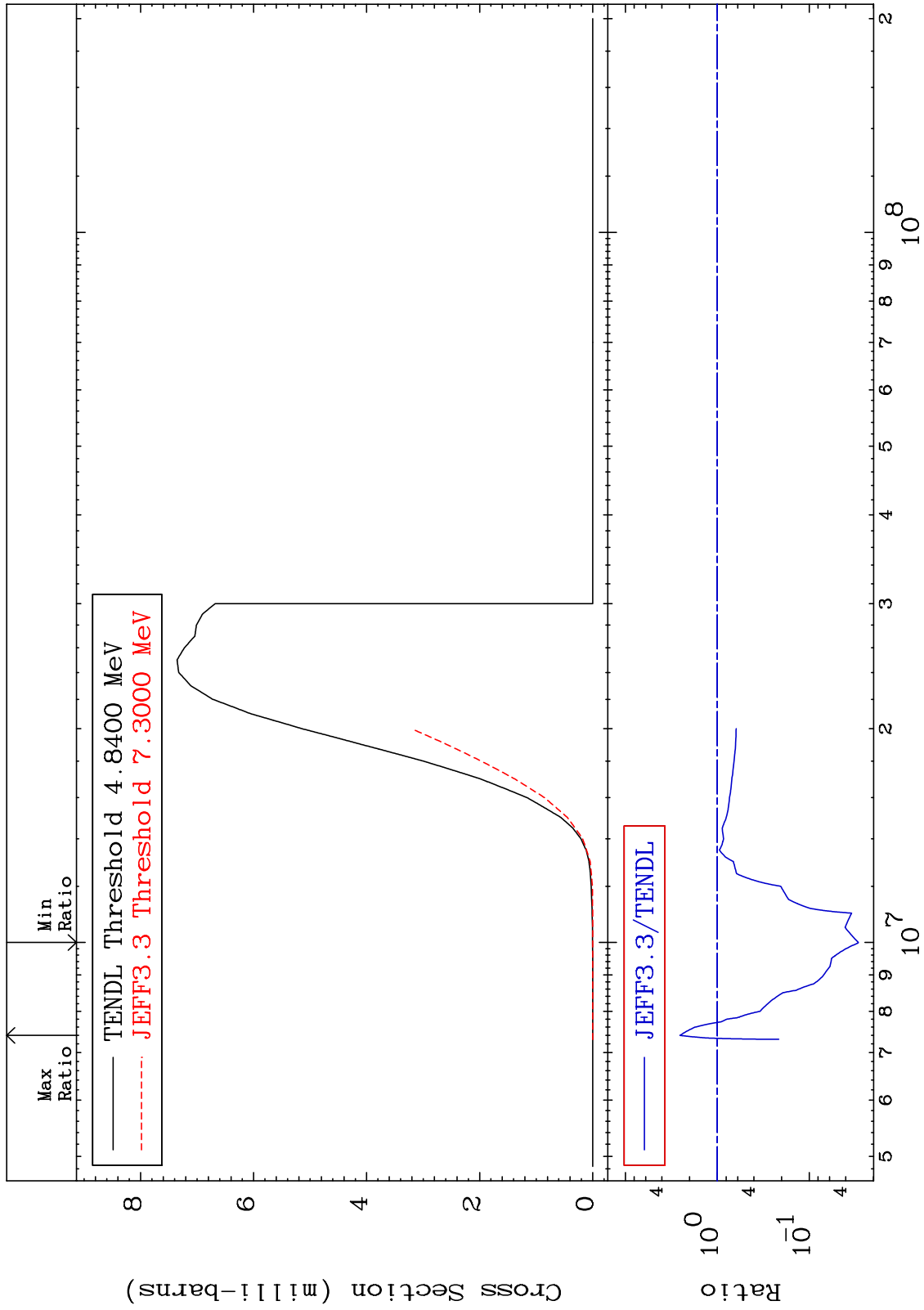
MAT 4128

(n, t)

41-Nb-94

Cross Section

-97.08 To 154.2 %



42

Incident Energy (eV)

41-Nb-94

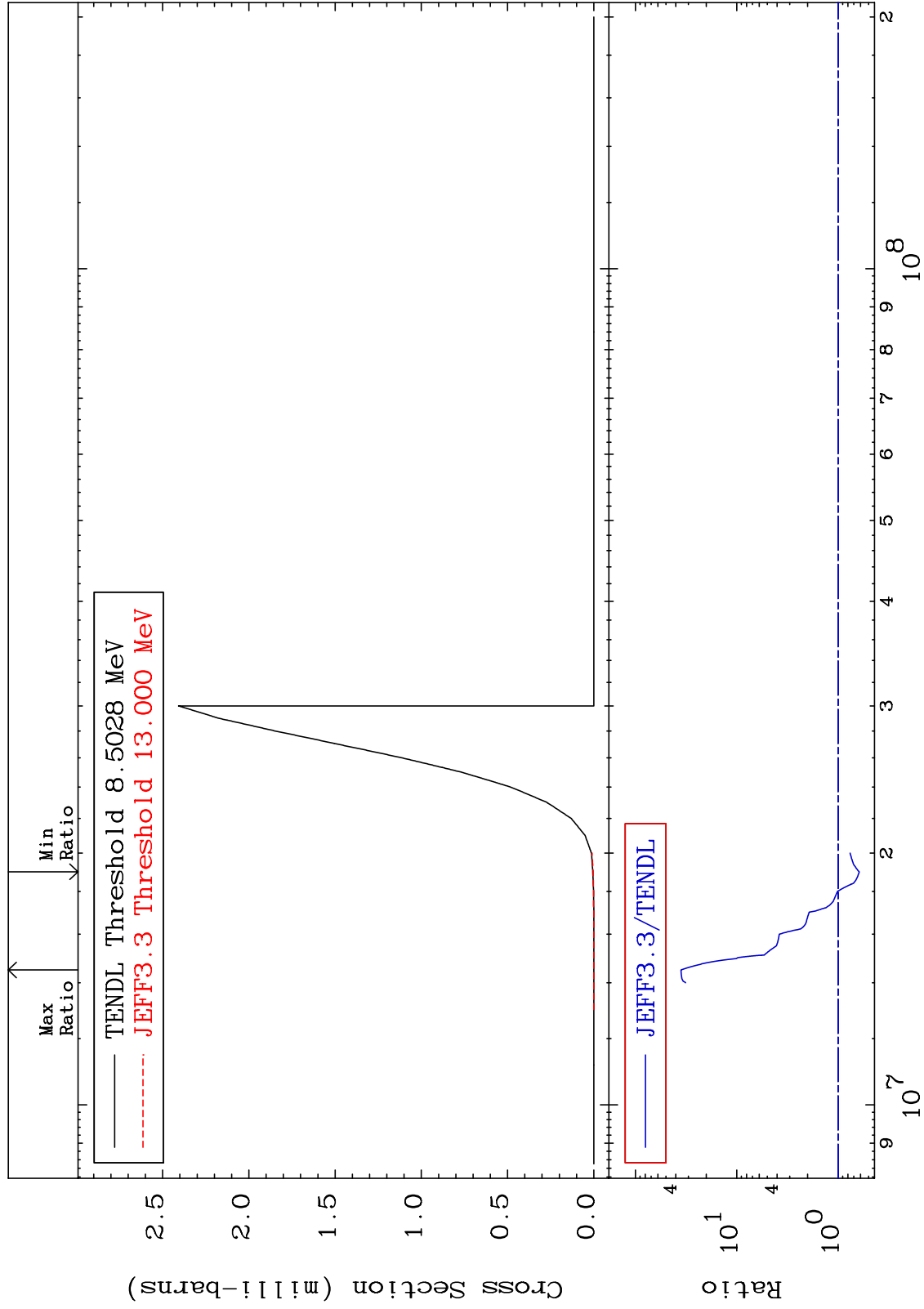
MAT 4128

(n, He-3)

41-Nb-94

Cross Section

-38.27 To 3449. %



43

Incident Energy (eV)

41-Nb-94

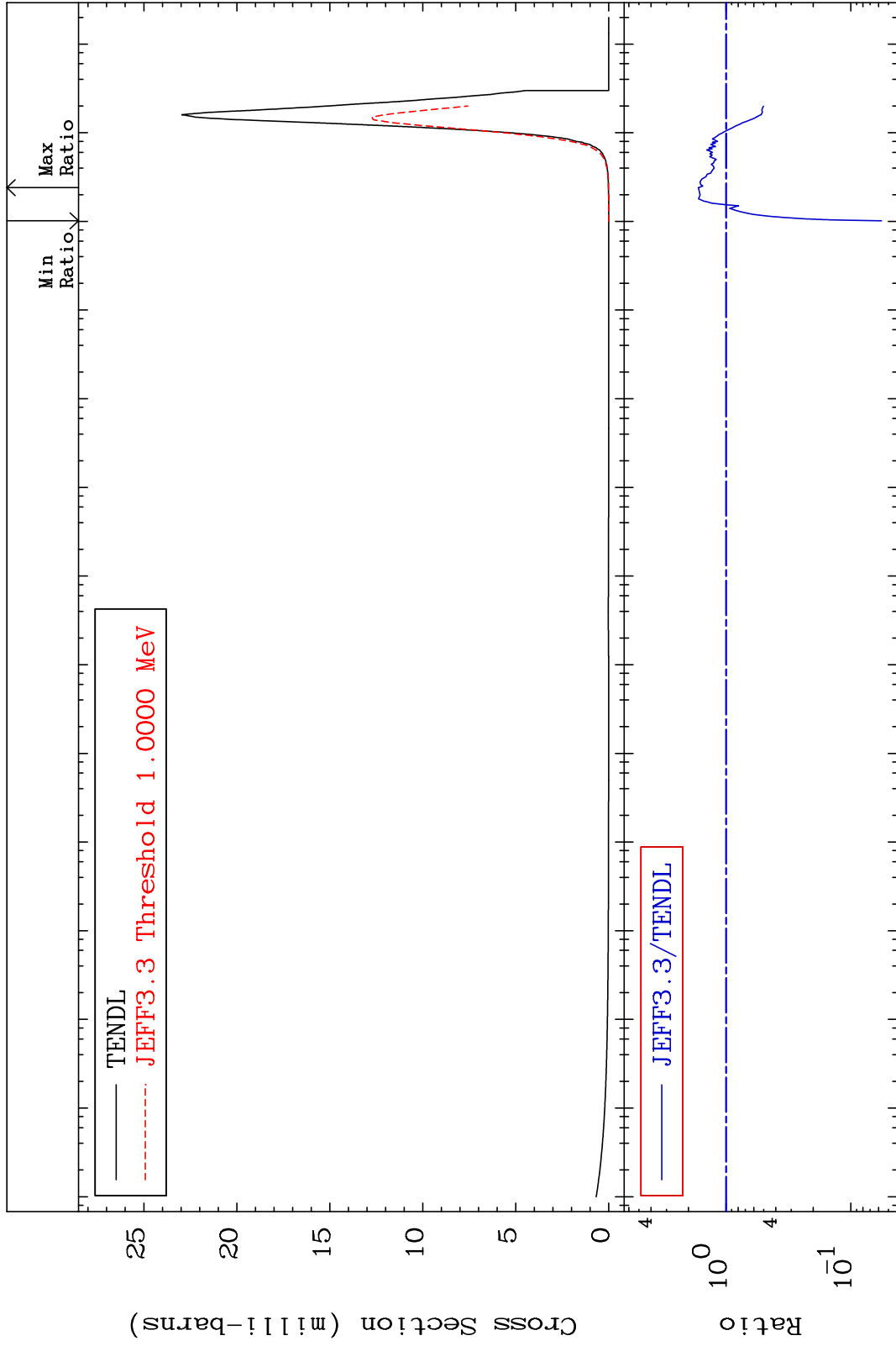
MAT 4128

(n, α)

41-Nb-94

Cross Section

-94.33 To 66.73 %



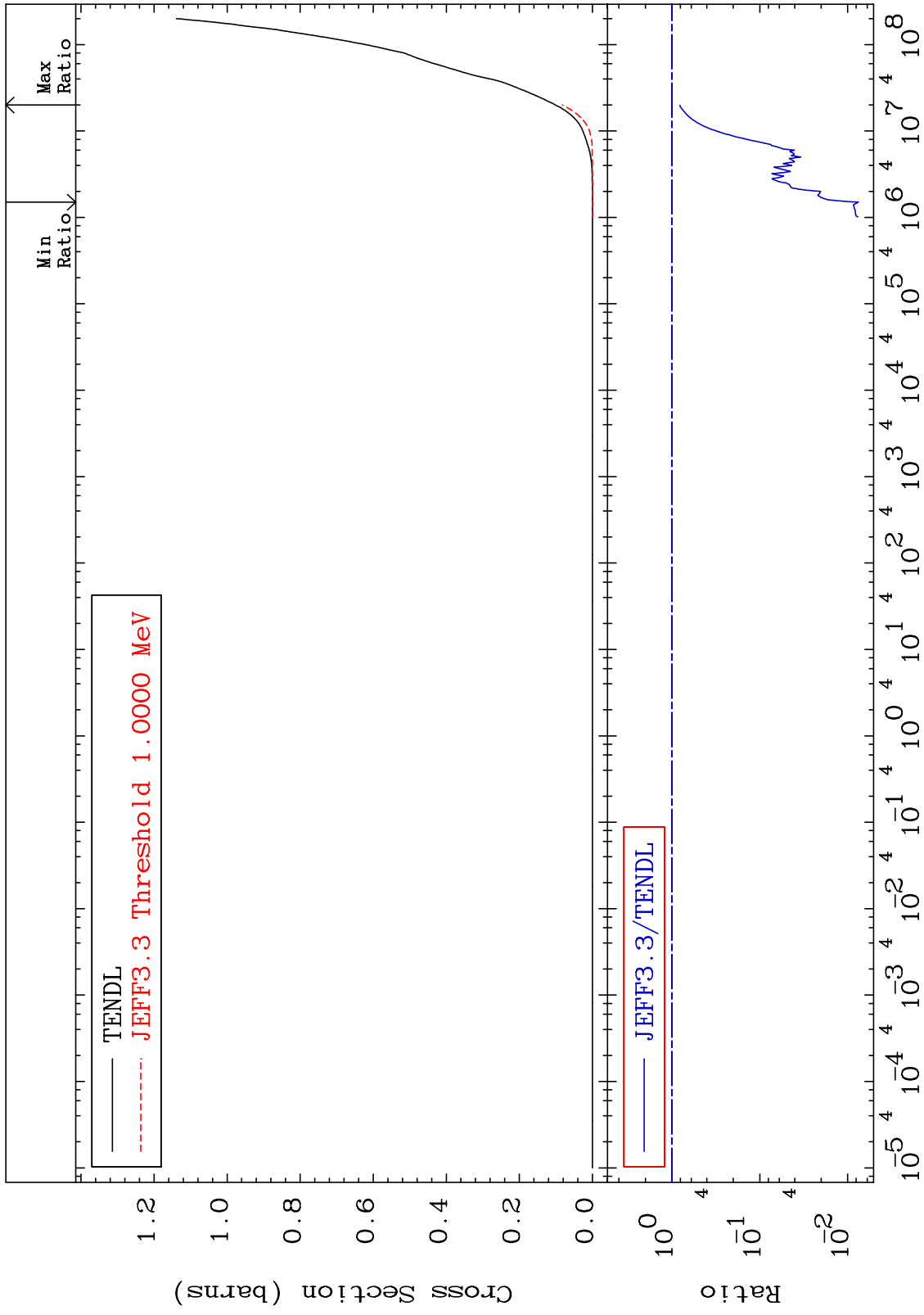
44

41-Nb-94

MAT 4128

Hydrogen Production Cross Section

41-Nb-94
-99.24 To -18.79%



45

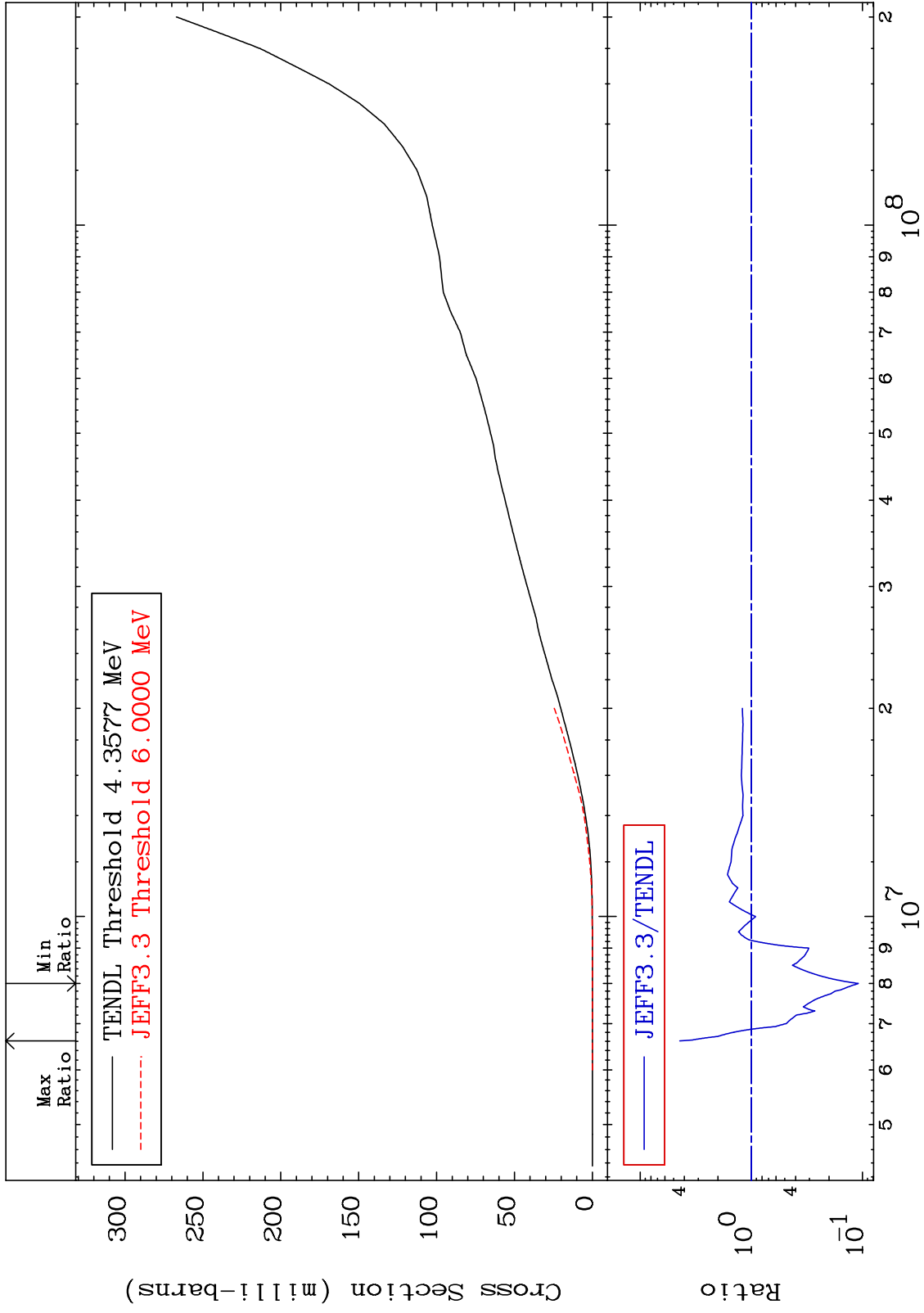
Incident Energy (eV)

41-Nb-94

MAT 4128

Deuterium Production
Cross Section

41-Nb-94
-89.11 To 339.9 %



46

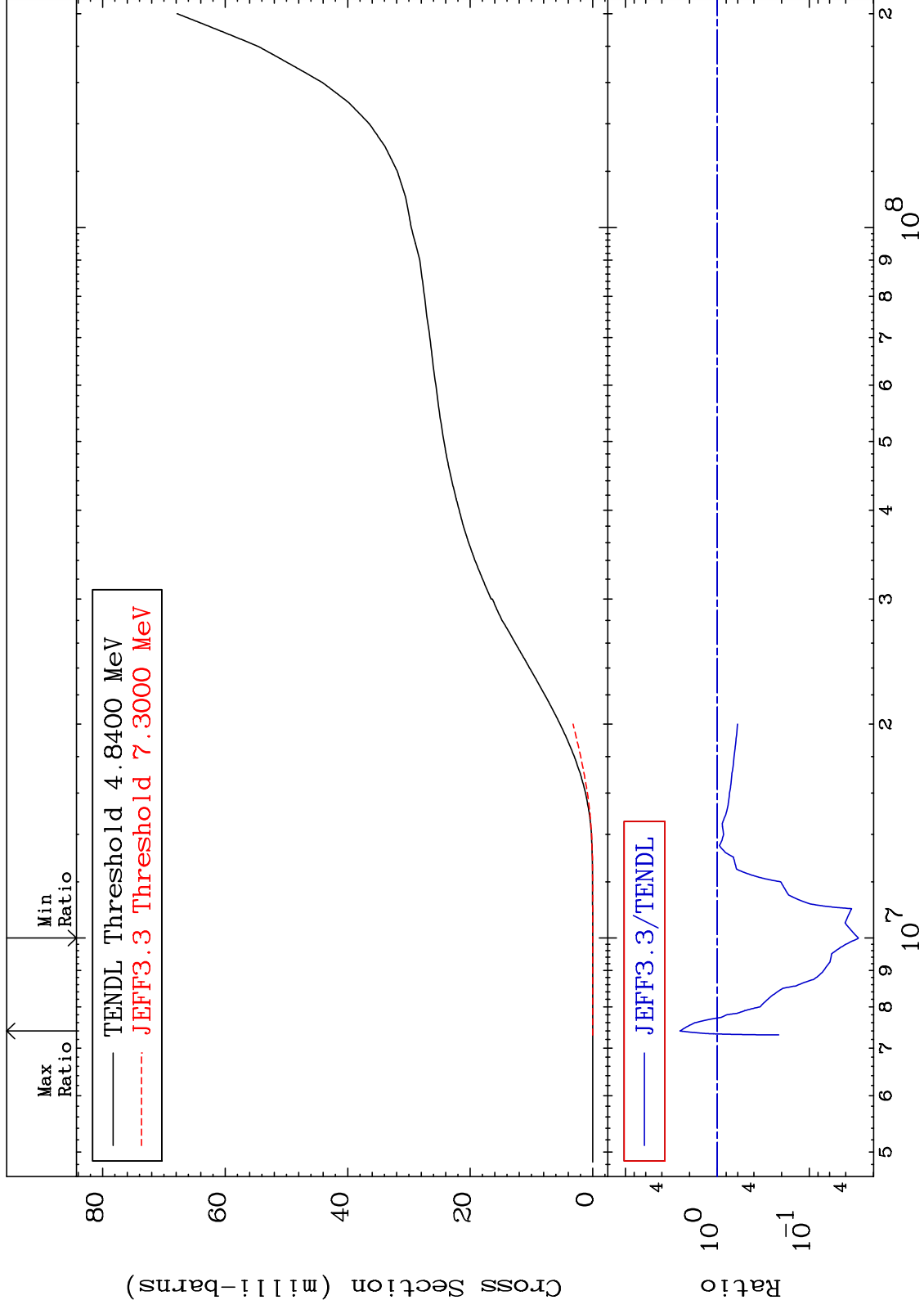
41-Nb-94

41-Nb-94

MAT 4128

Tritium Production
Cross Section

41-Nb-94
-97.08 To 154.2 %



47

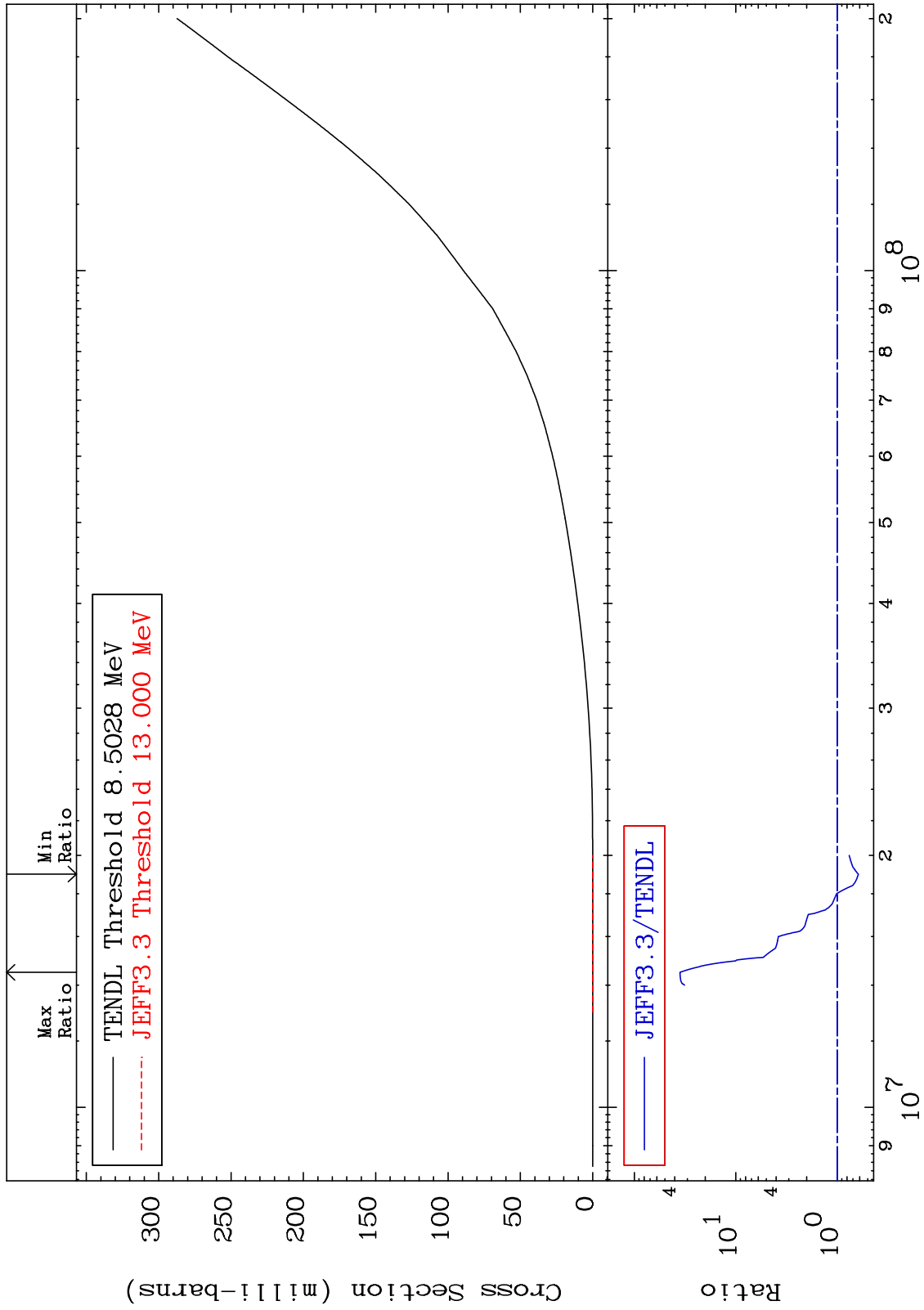
Incident Energy (eV)

41-Nb-94

MAT 4128

He-3 Production
Cross Section

41-Nb-94
-38.27 To 3449. %



48

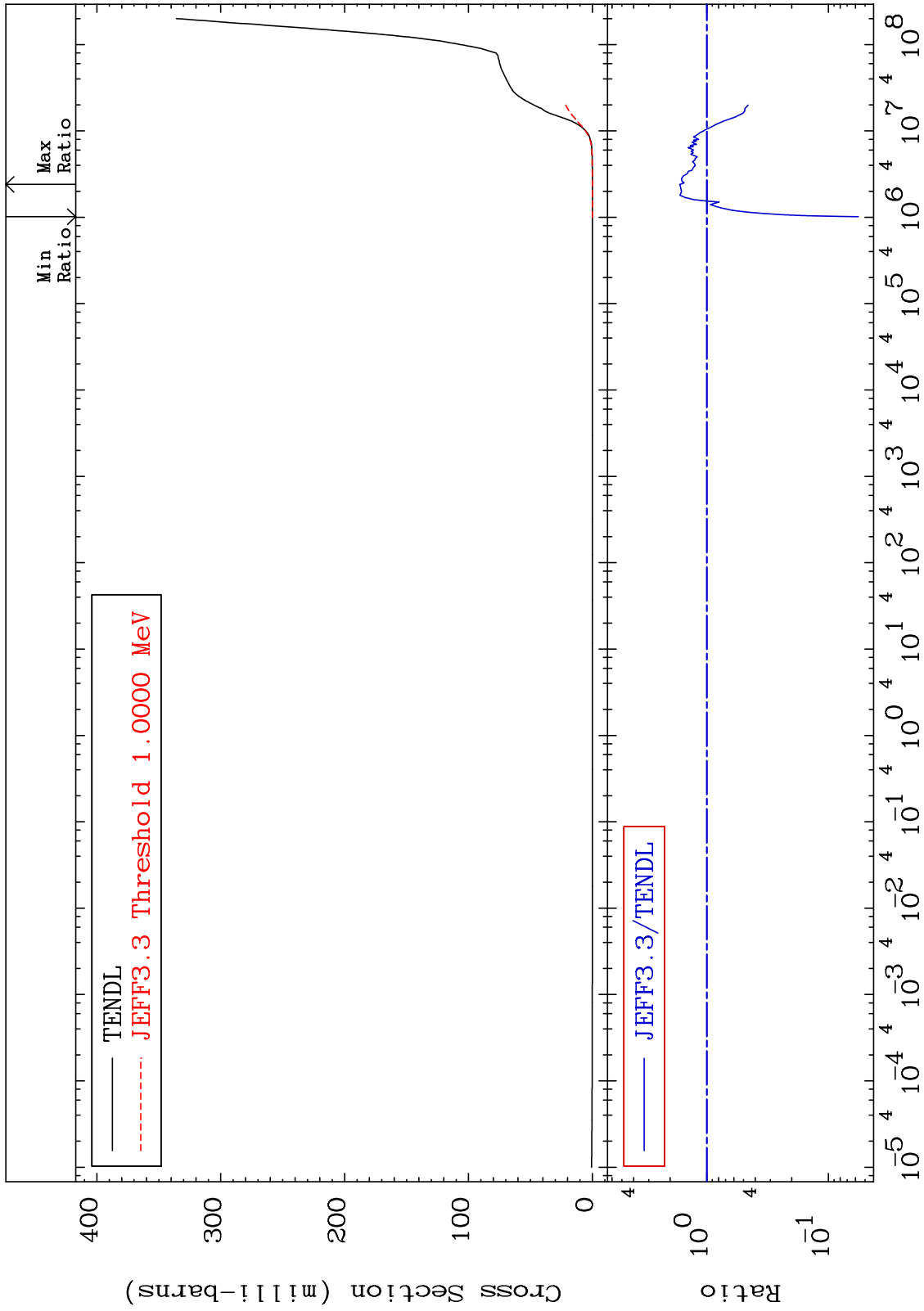
Incident Energy (eV)

41-Nb-94

MAT 4128

He-4 Production
Cross Section

41-Nb-94
-94.33 To 66.73 %



49

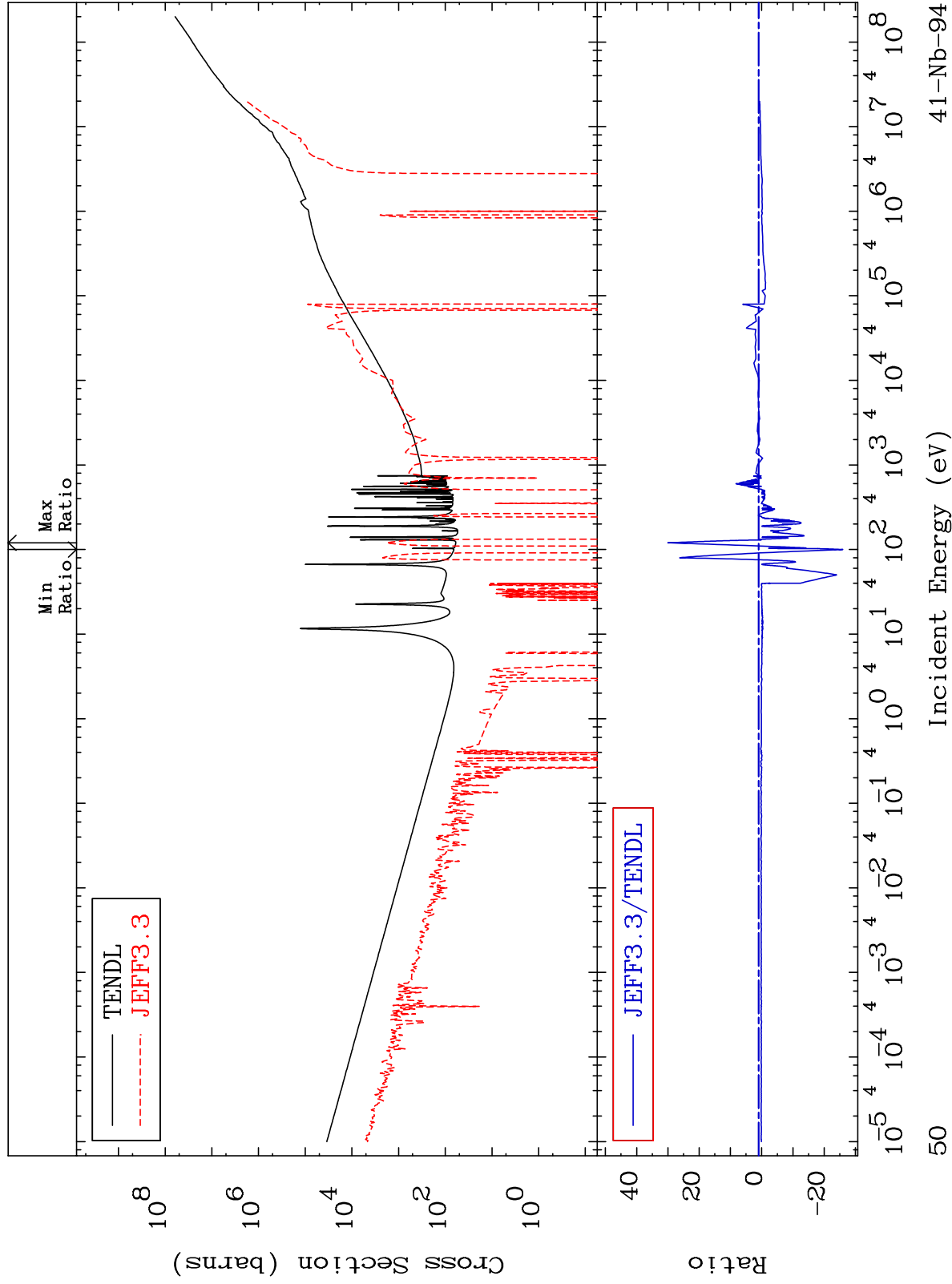
Incident Energy (eV)

41-Nb-94

MAT 4128

Kerma total (eV-barns)
Cross Section

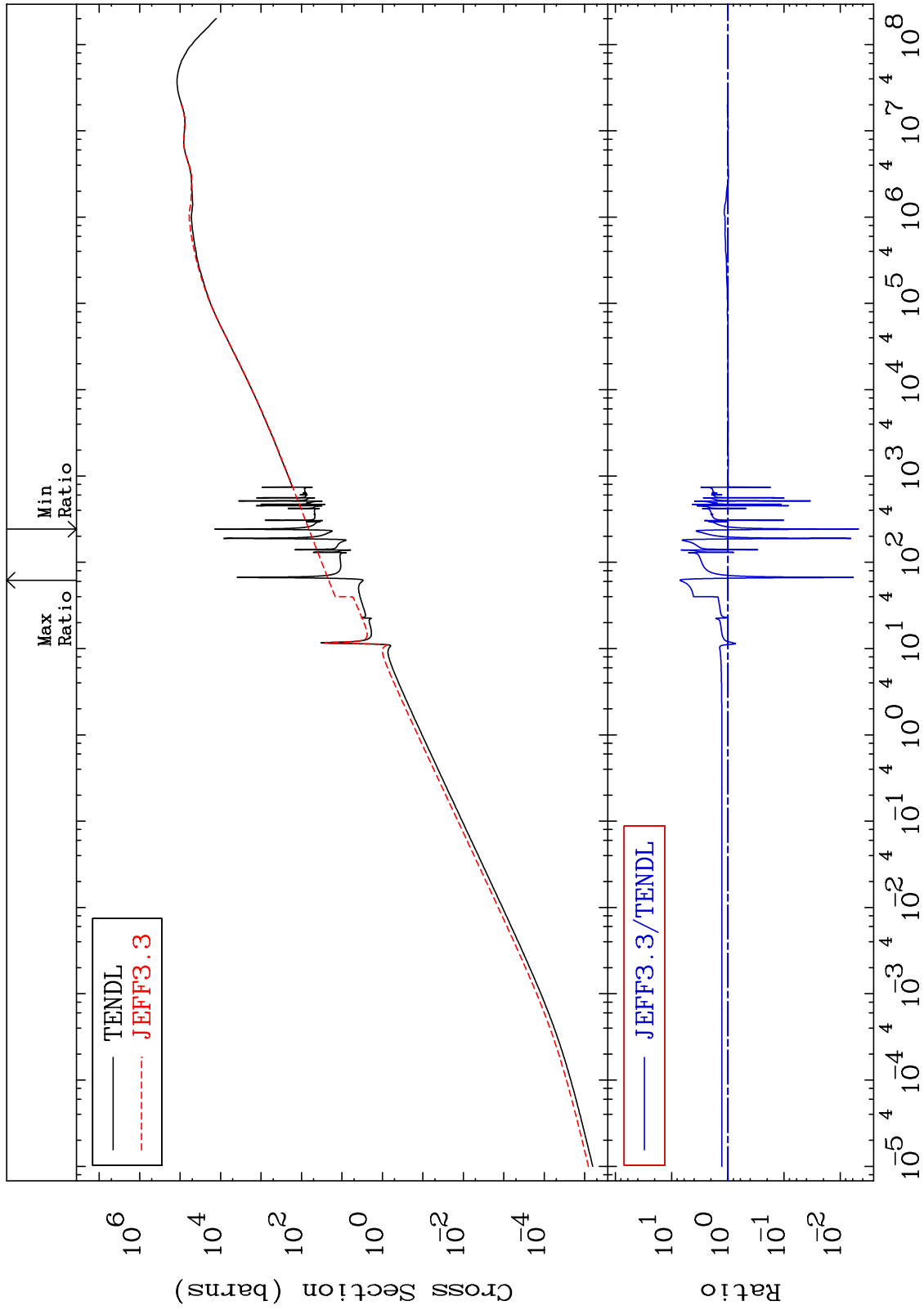
41-Nb-94
-2696. To 2896. %



MAT 4128

Kerma elastic
Cross Section

41-Nb-94
-99.52 To 610.0 %



51

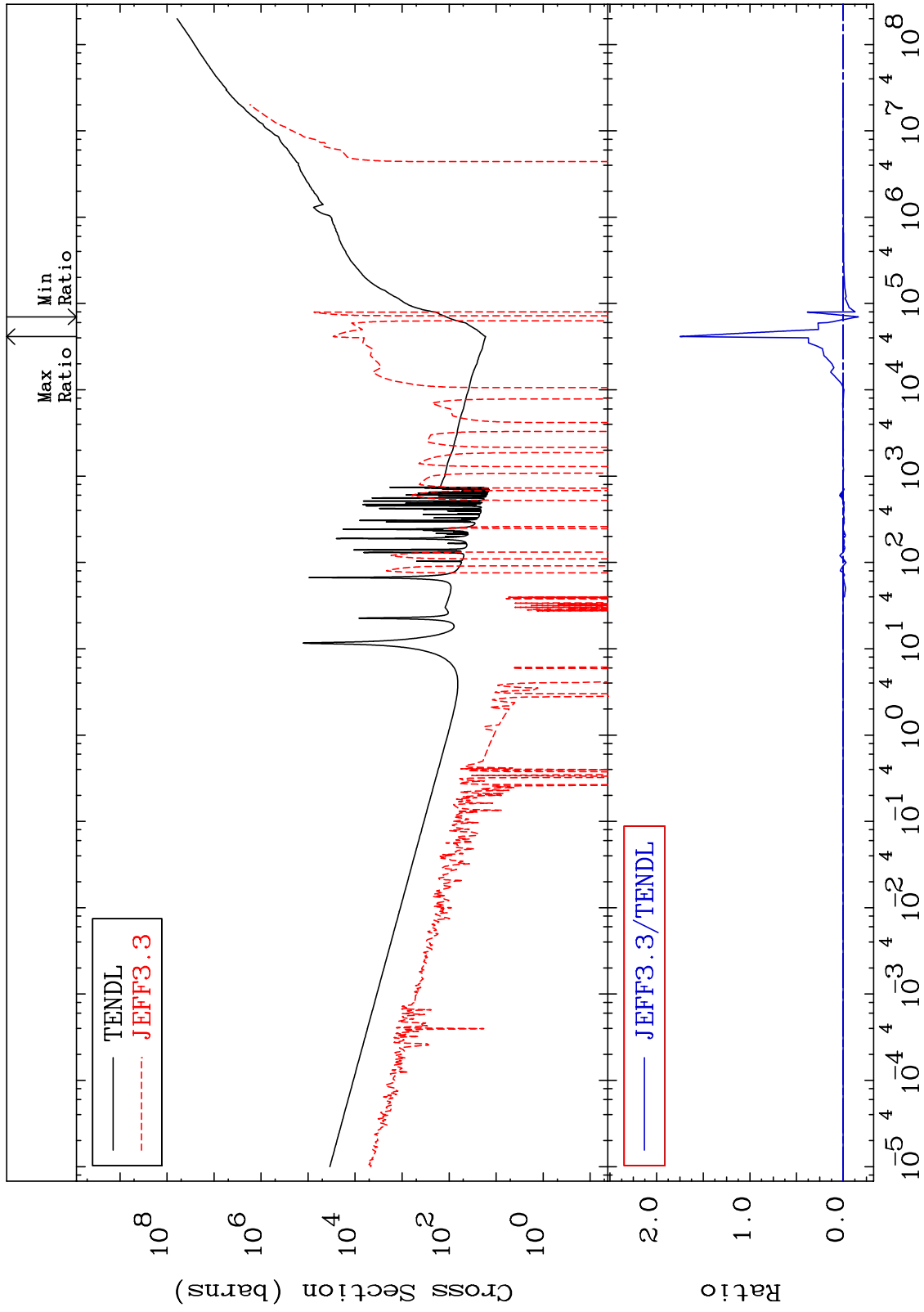
Incident Energy (eV)

41-Nb-94

MAT 4128

Kerma non-elastic (all but mt2)
Cross Section

41-Nb-94
-9999. To 9999. %



52

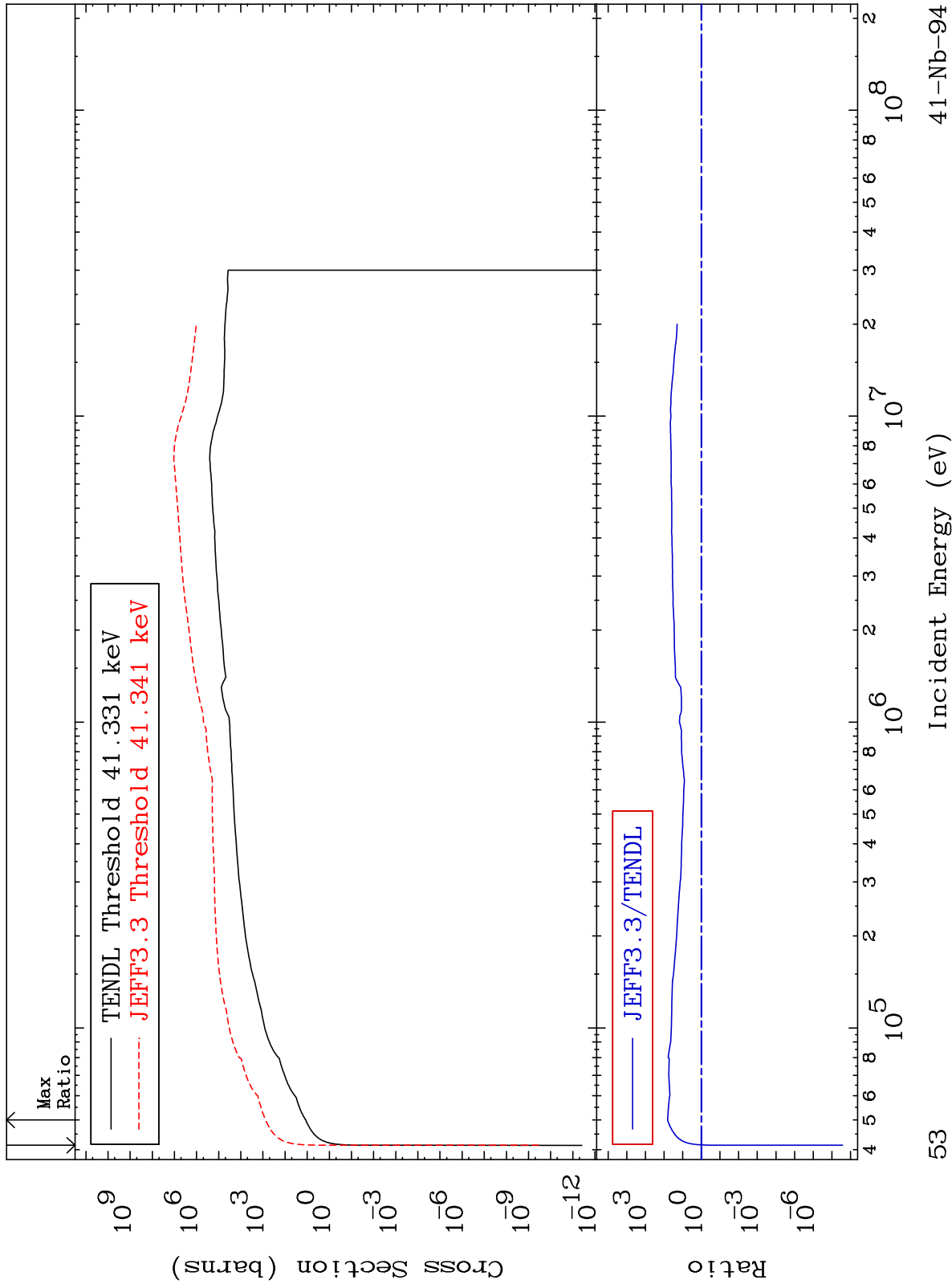
Incident Energy (eV)

41-Nb-94

MAT 4128

Kerma inelastic (mt51-91)
Cross Section

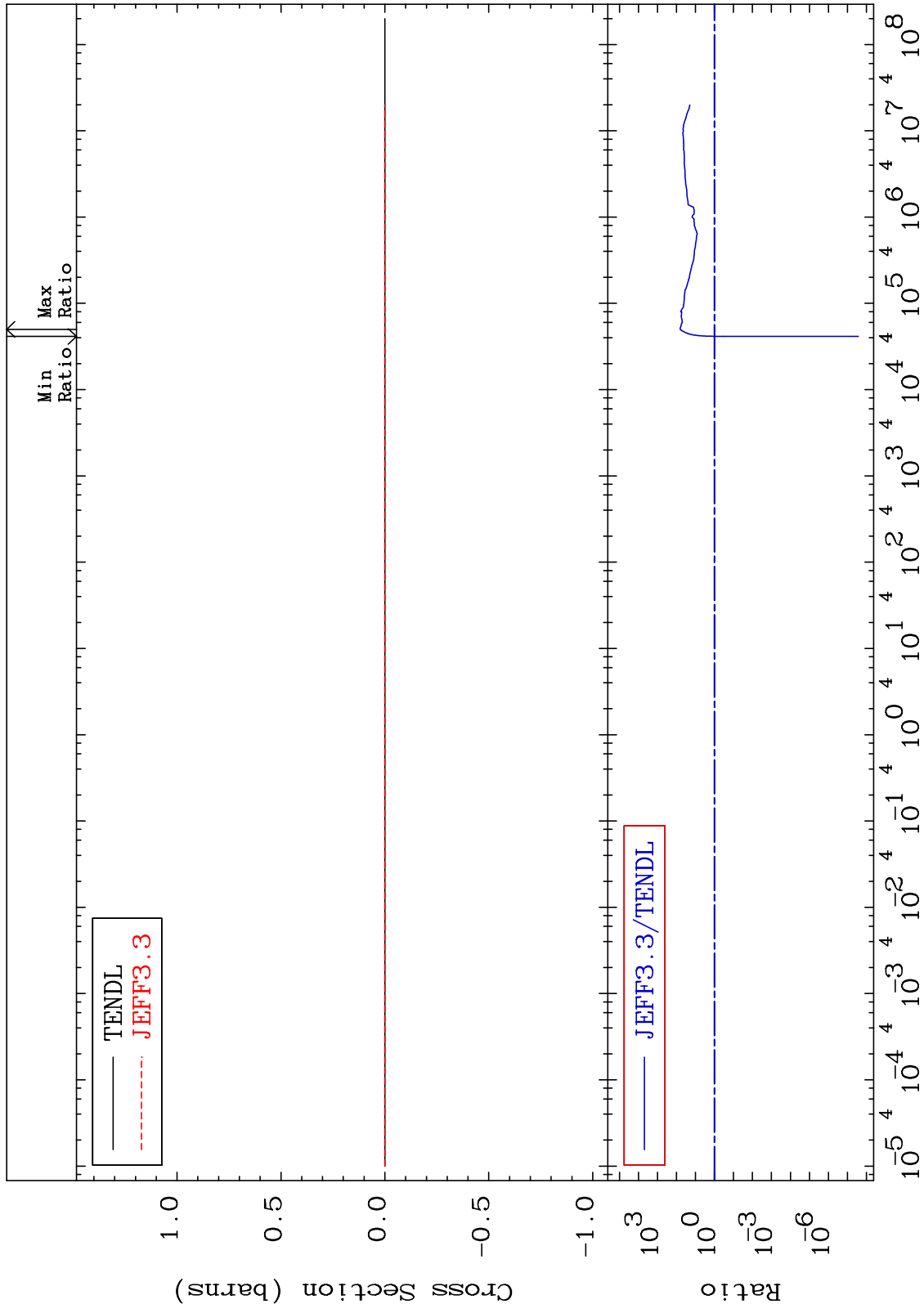
41-Nb-94
-100.0 To 6376. %



MAT 4128

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

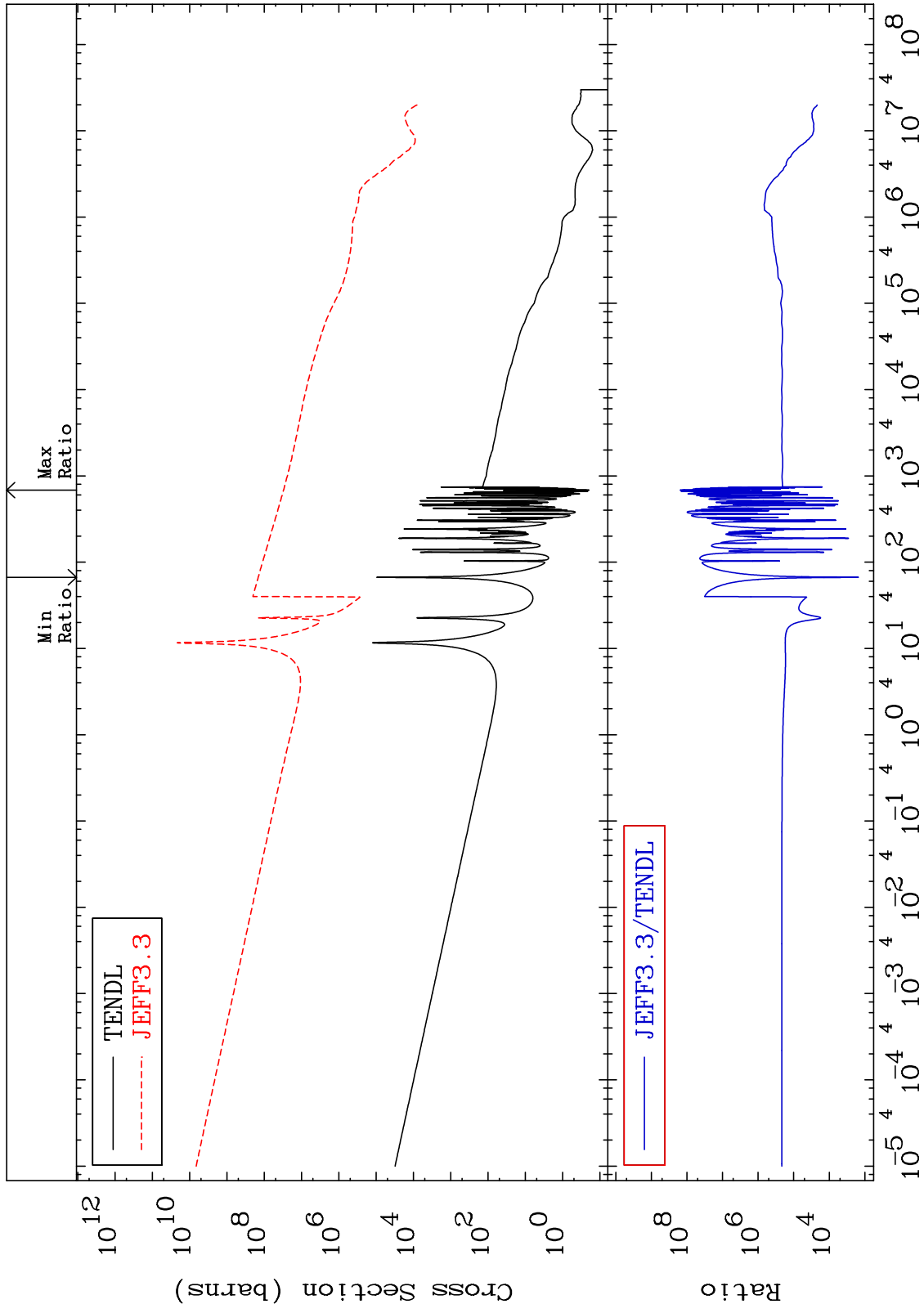
41-Nb-94
-100.0 To 6376. %



MAT 4128

Kerma capture (mt102)
Cross Section

41-Nb-94
9999. To 9999. %



55

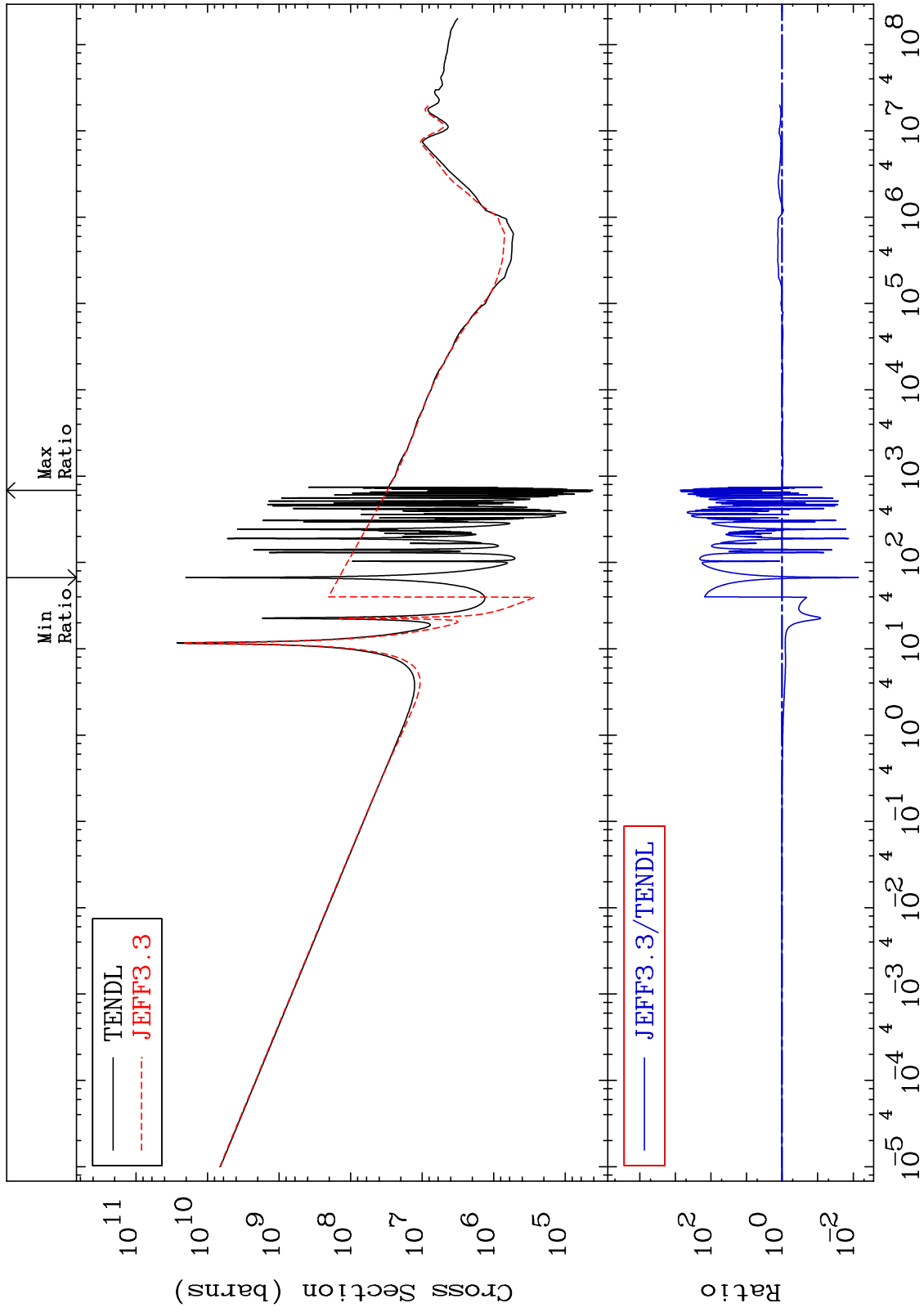
Incident Energy (eV)

41-Nb-94

MAT 4128

Total photon (eV-barns)
Cross Section

41-Nb-94
-99.28 To 9999. %



56

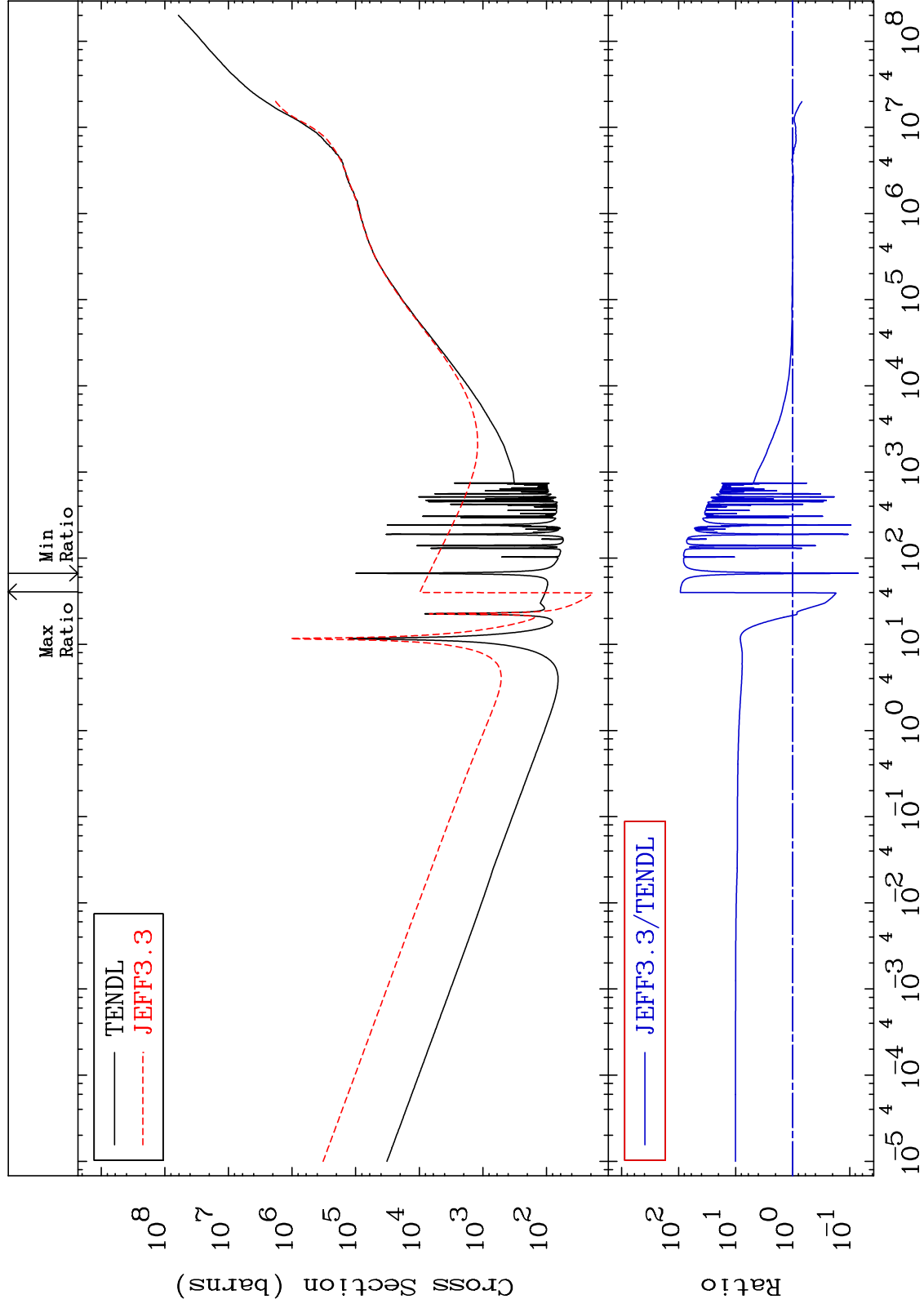
Incident Energy (eV)

41-Nb-94

MAT 4128

Total kinematic kerma (high limit)
Cross Section

41-Nb-94
-92.97 To 9224. %



57

Incident Energy (eV)

41-Nb-94

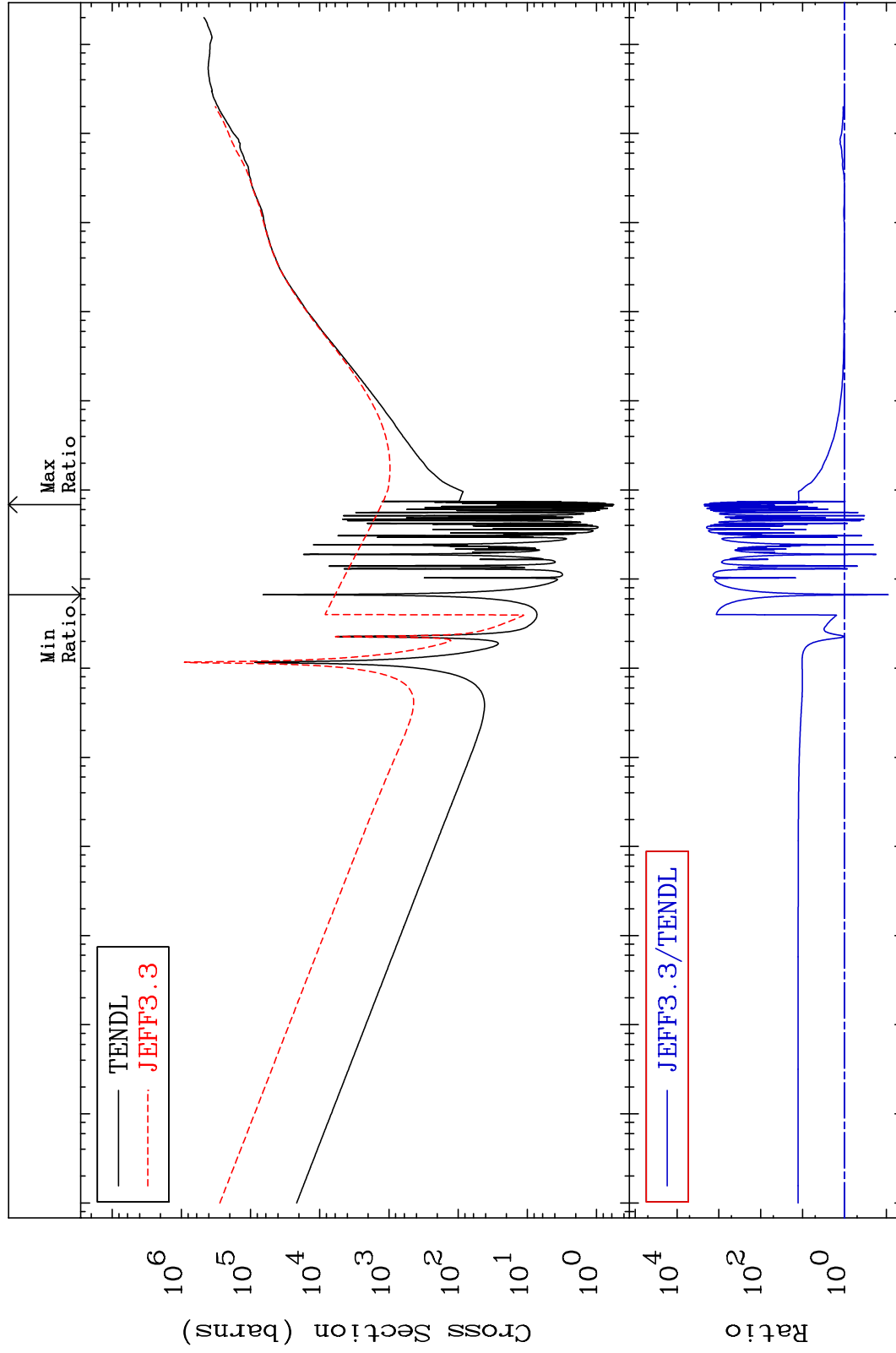
MAT 4128

Dpa total (eV-barns)

41-Nb-94

-90.93 To 9999. %

Cross Section



58

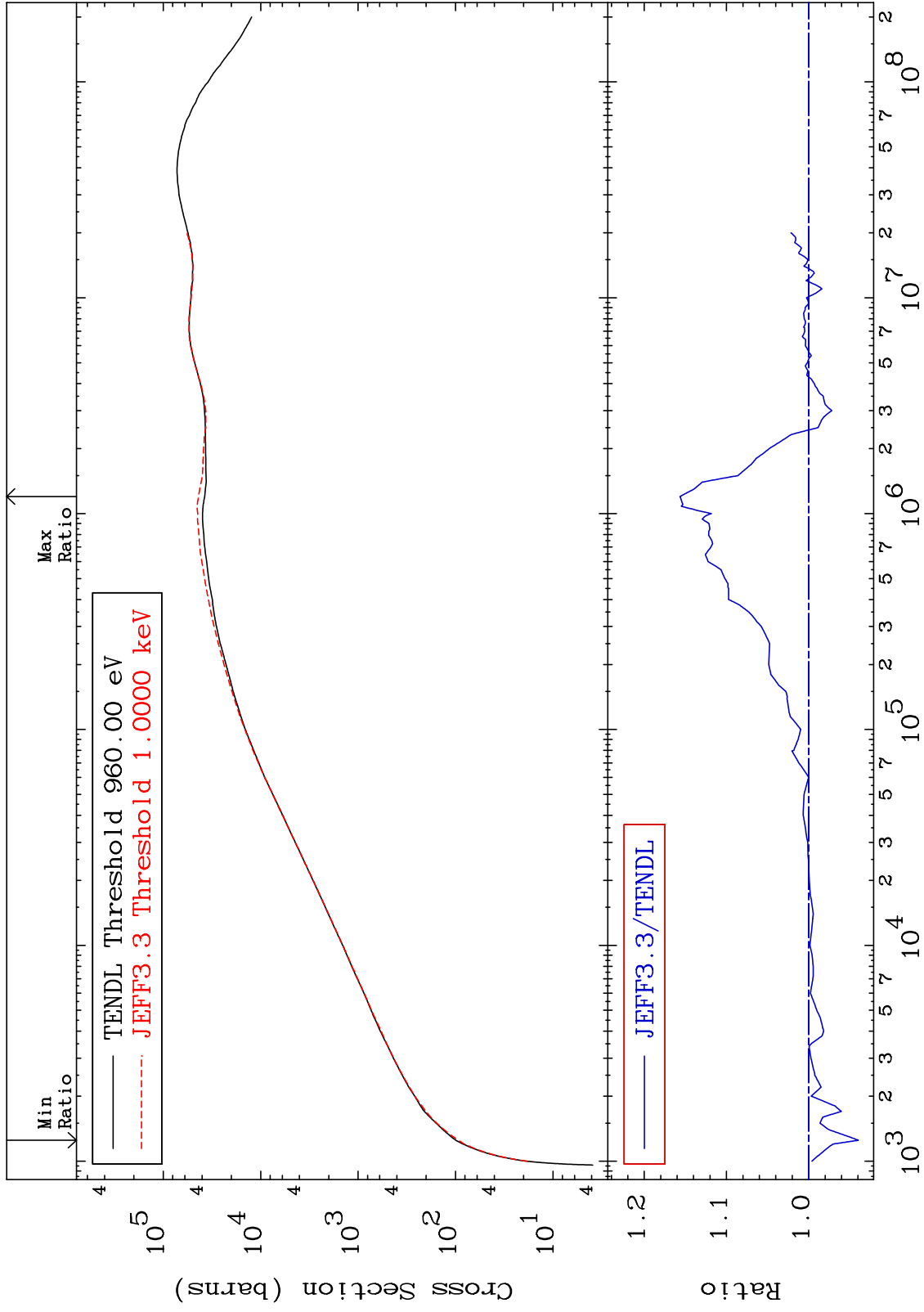
Incident Energy (eV)

41-Nb-94

MAT 4128

Dpa elastic (mt2)
Cross Section

41-Nb-94
-6.050 To 15.65 %



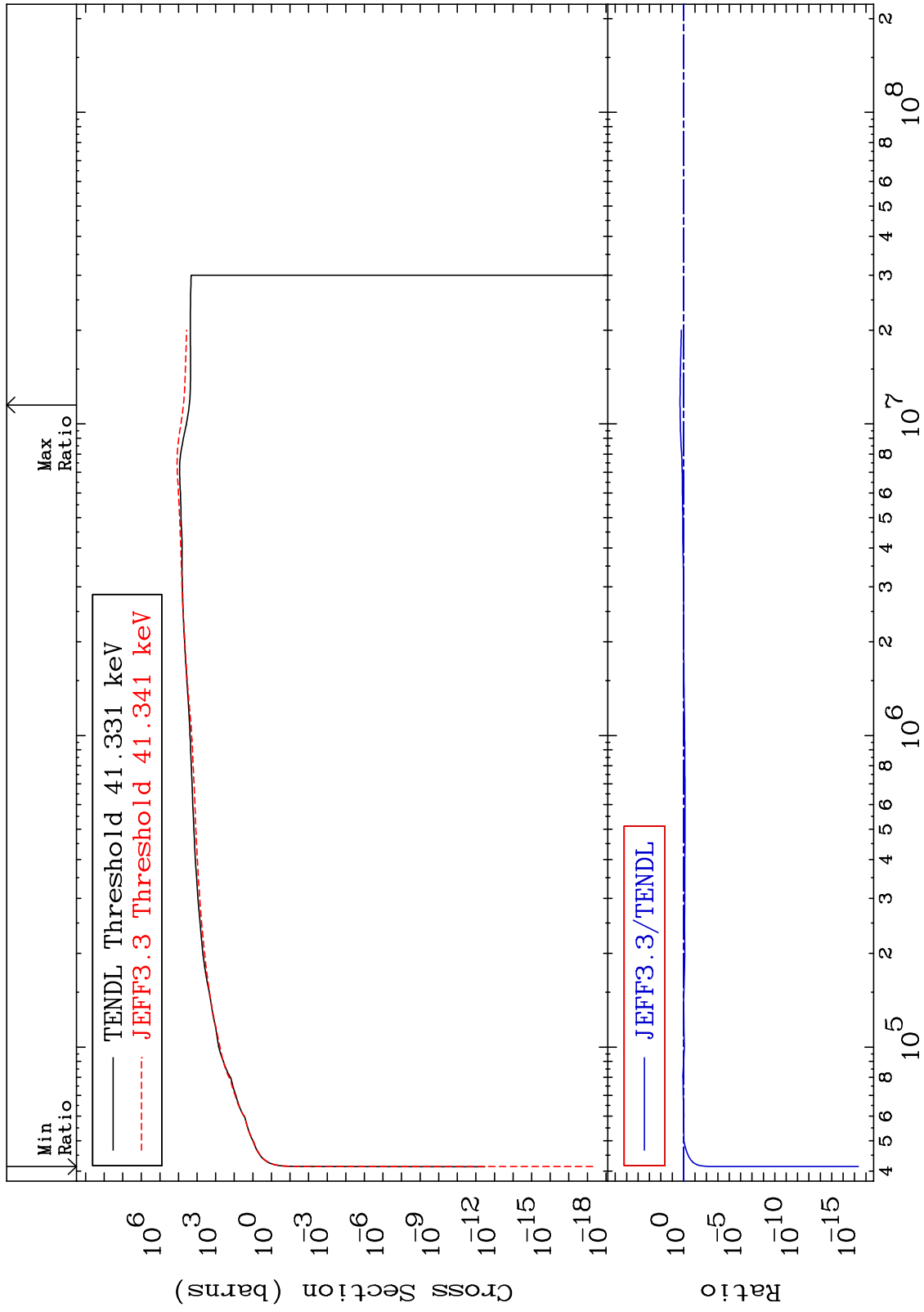
59

41-Nb-94

MAT 4128

Dpa inelastic (mt51-91)
Cross Section

41-Nb-94
-100.0 To 107.6 %

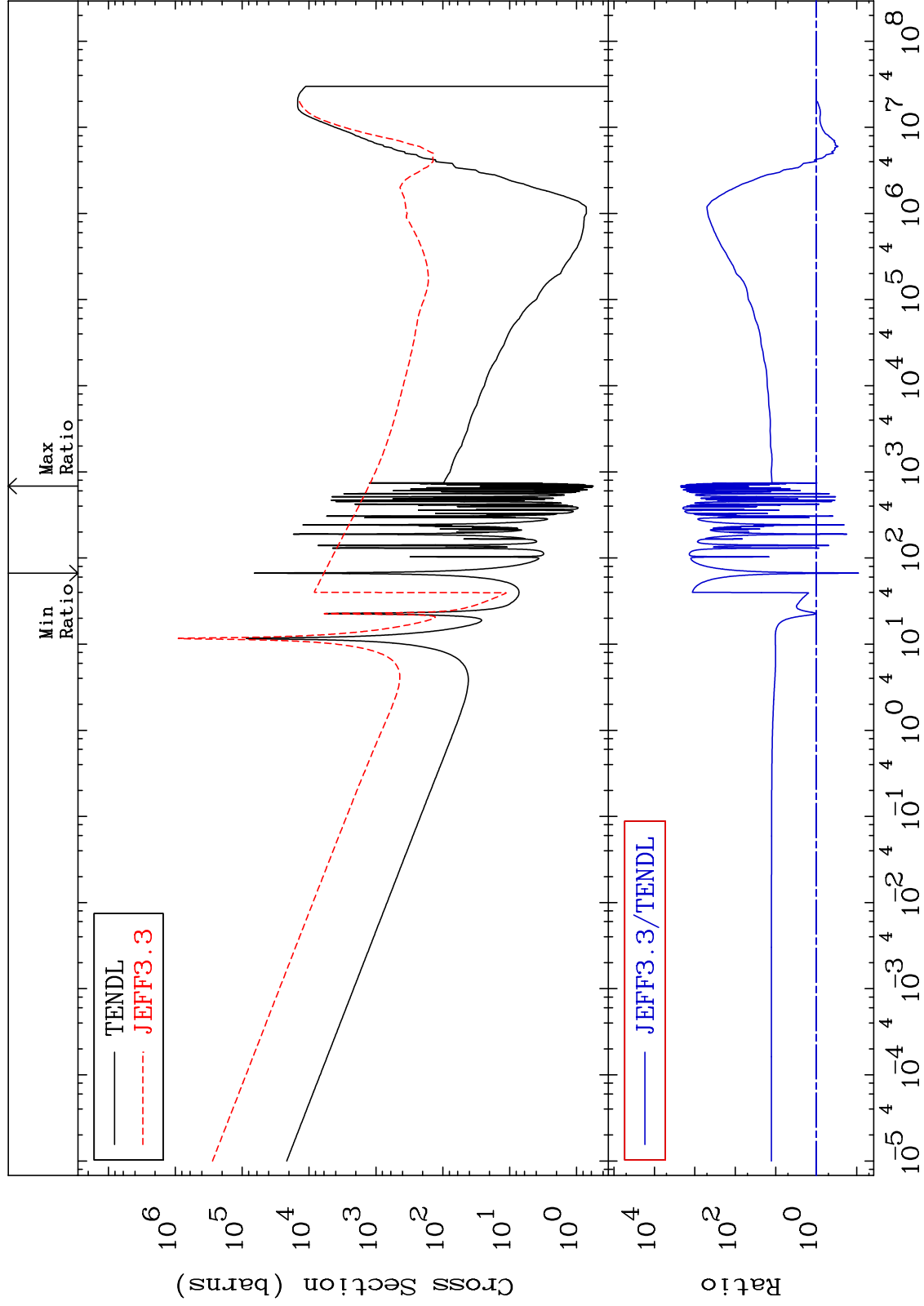


MAT 4128

Dpa disappearance (mt102 -120)

41-Nb-94

-90.93 To 9999. %



61

Incident Energy (eV)

41-Nb-94

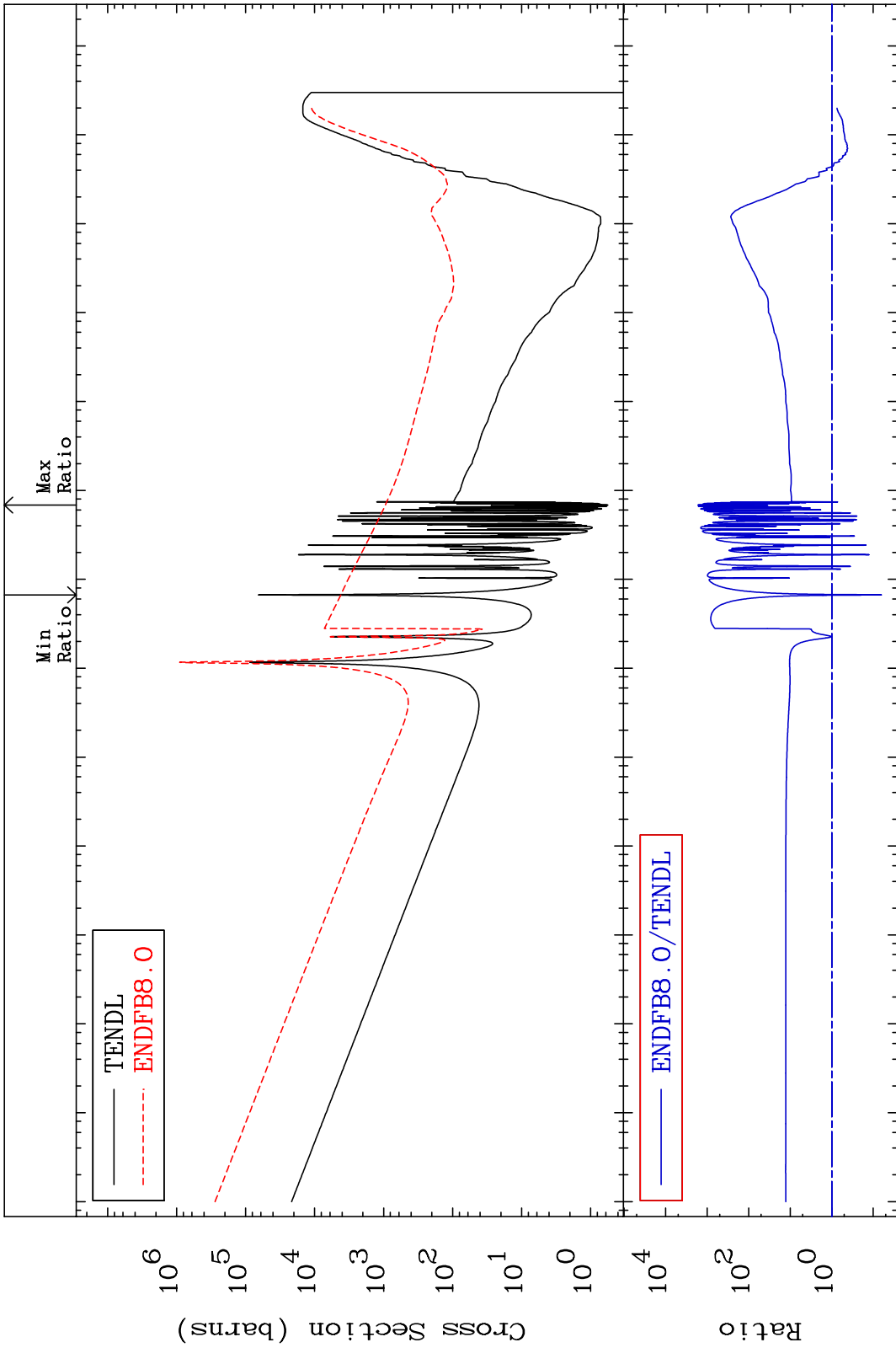
MAT 4128

Dpa disappearance (mt102 -120)

41-Nb-94

-93.68 To 9999. %

Cross Section



62

Incident Energy (eV)

41-Nb-94