

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

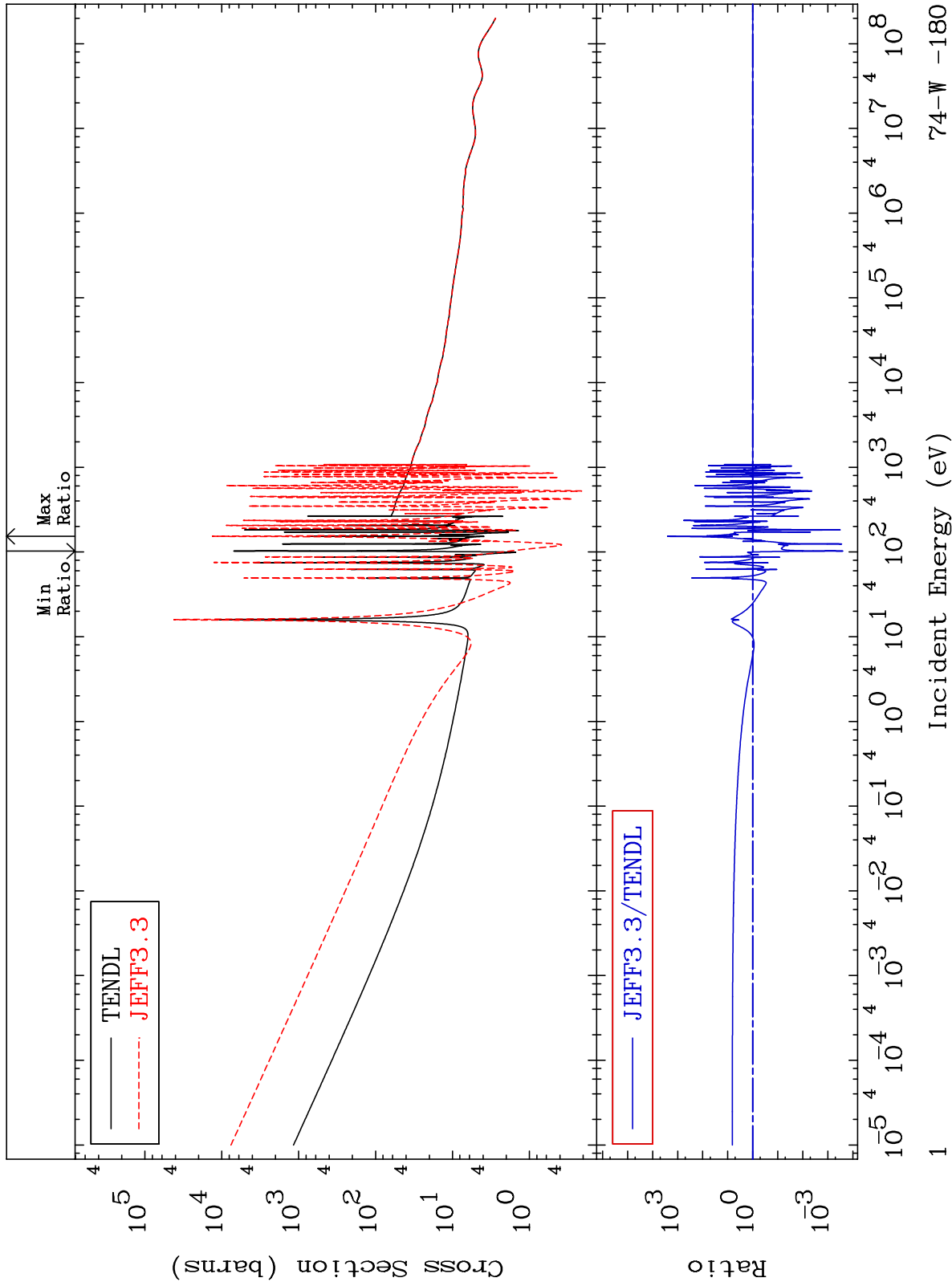
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7425
Total Cross Section
74-W -180
-99.97 To 9999. %



74-W -180

Incident Energy (eV)

1

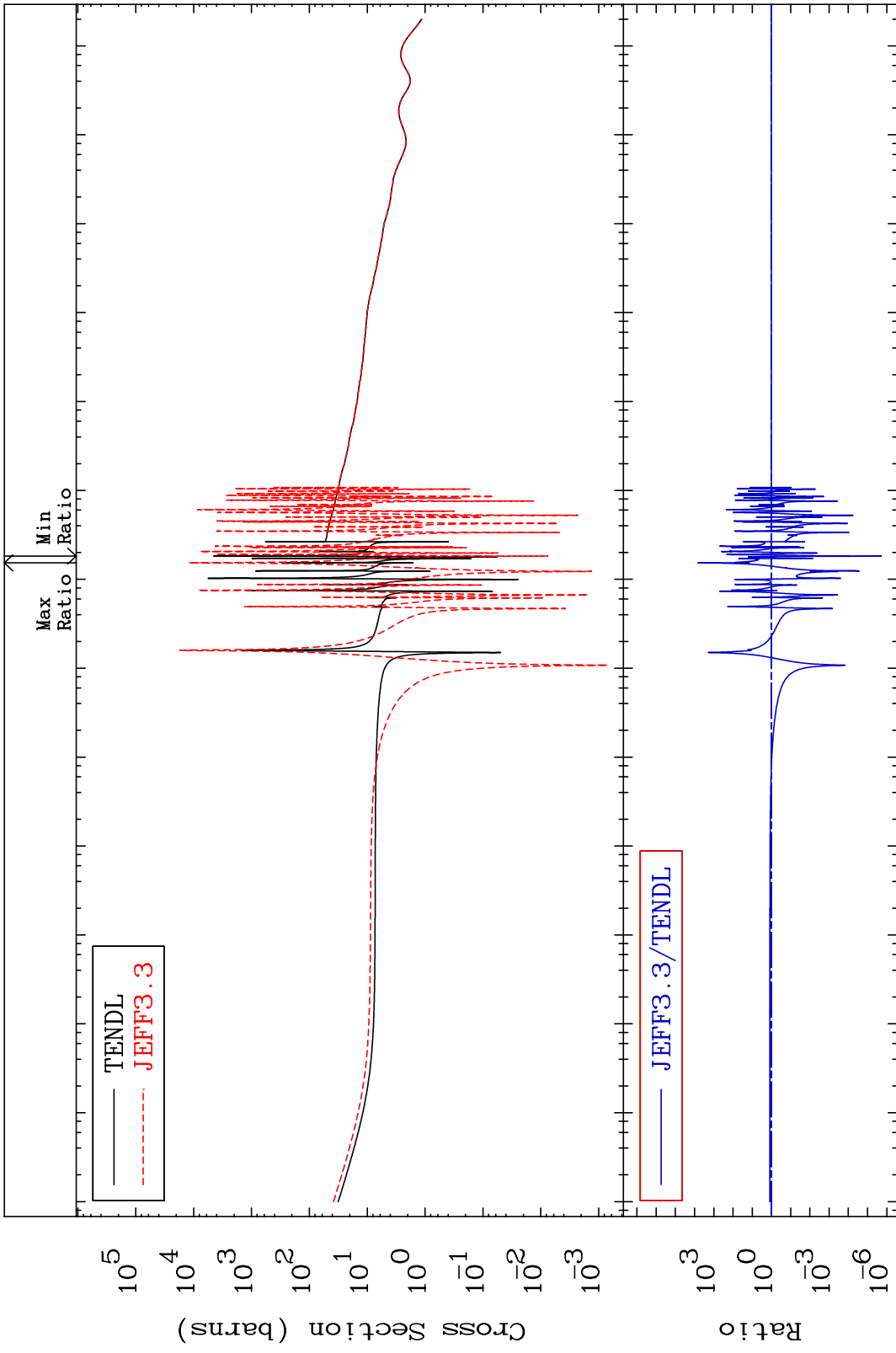
MAT 7425

Elastic

74-W -180

Cross Section

-100.0 To 9999. %



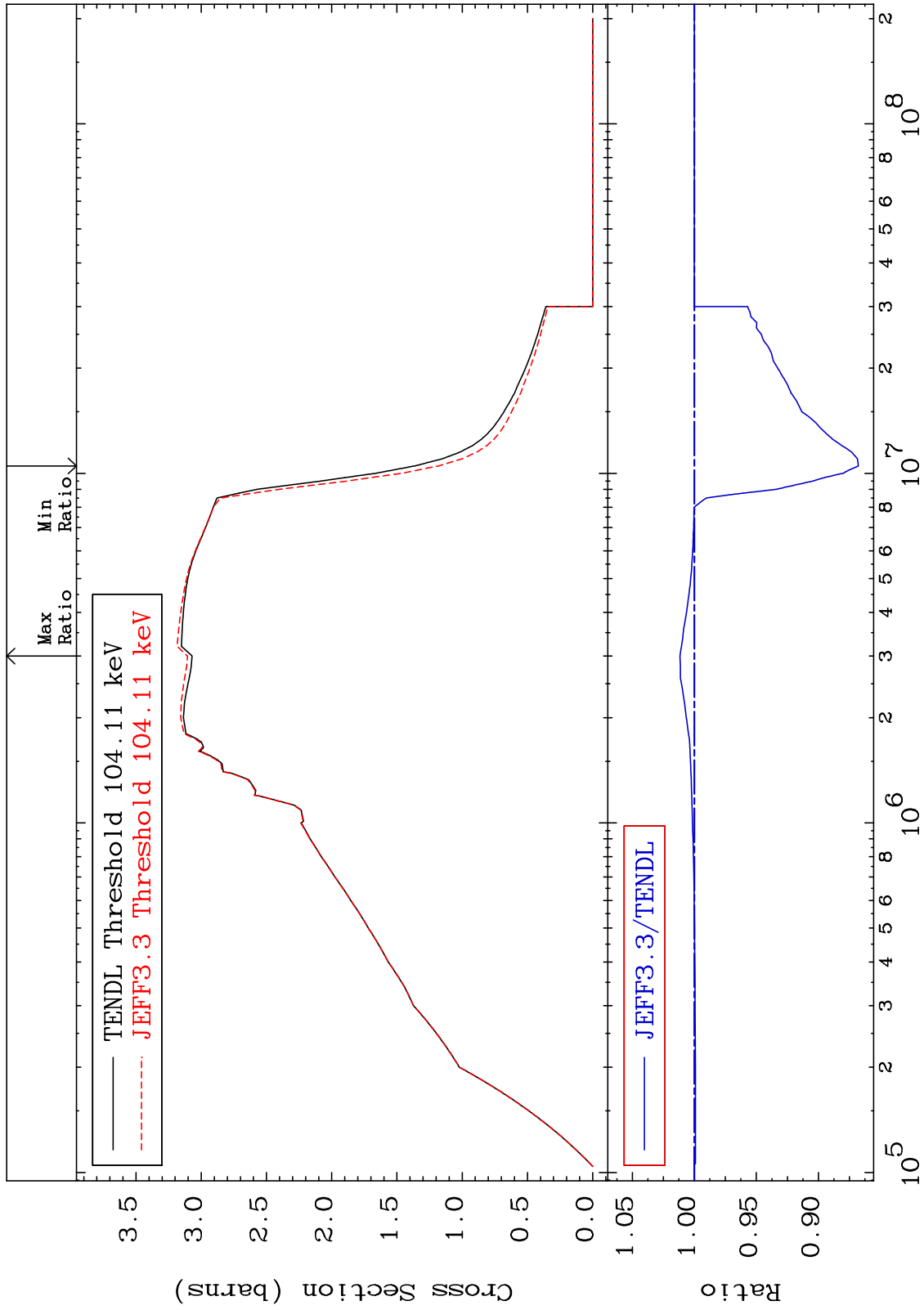
Incident Energy (eV)

74-W -180

MAT 7425

74-W -180
-13.23 To 1.165 %

Inelastic
Cross Section



Incident Energy (eV)

74-W -180

3

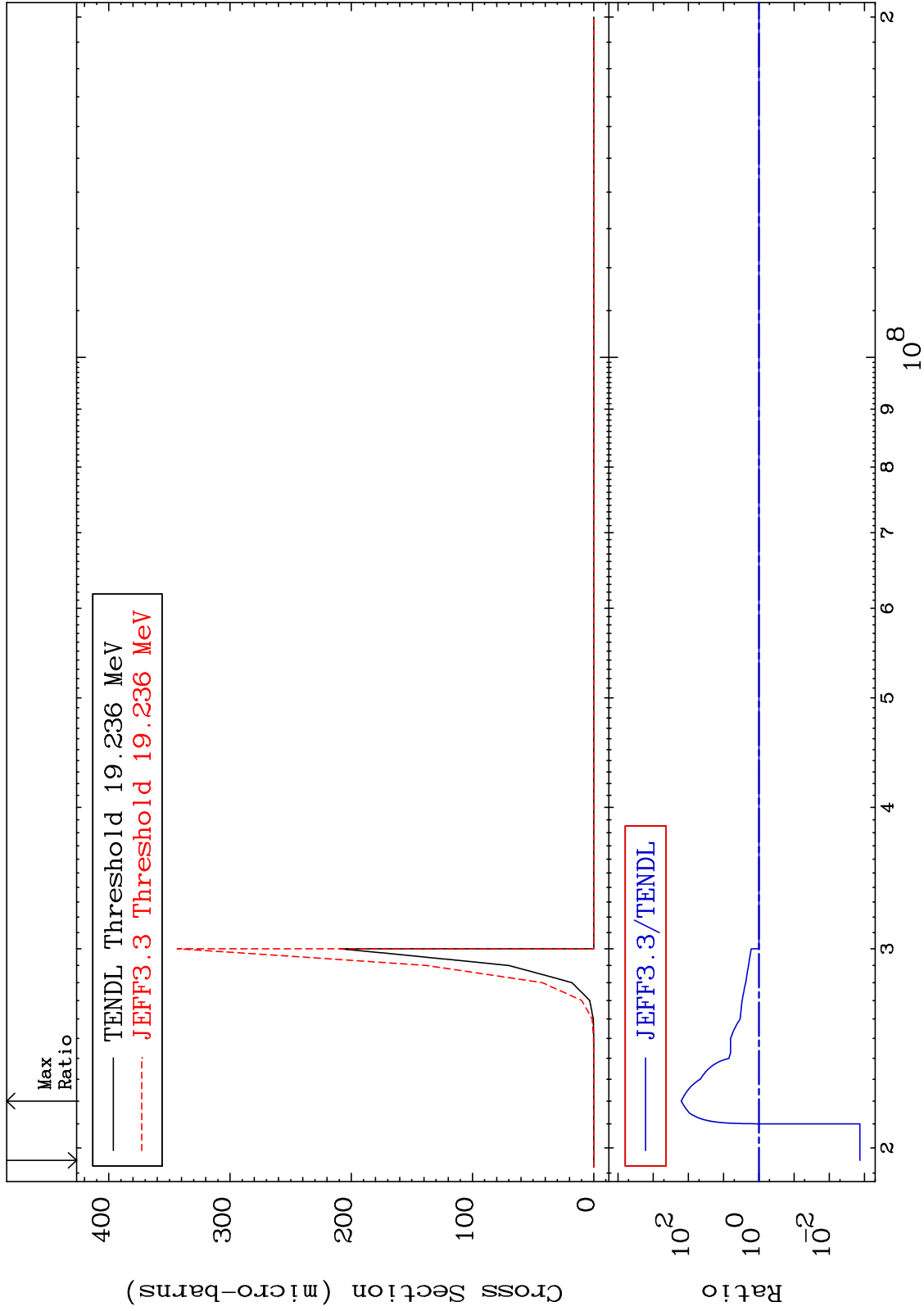
MAT 7425

(n,2n) d

74-W -180

Cross Section

-99.86 To 9999. %



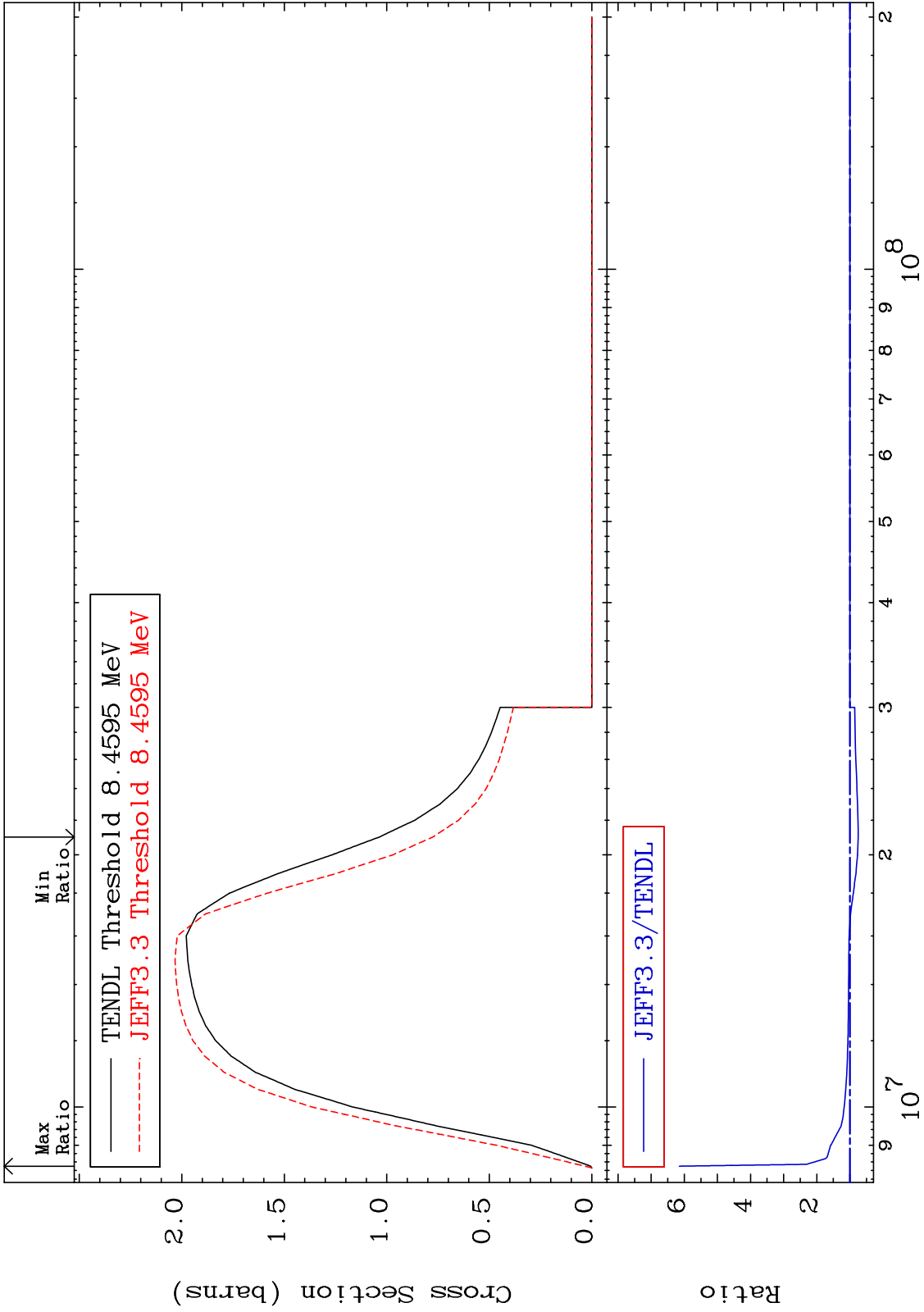
MAT 7425

(n,2n)

74-W -180

Cross Section

-25.26 To 514.8 %



5

Incident Energy (eV)

74-W -180

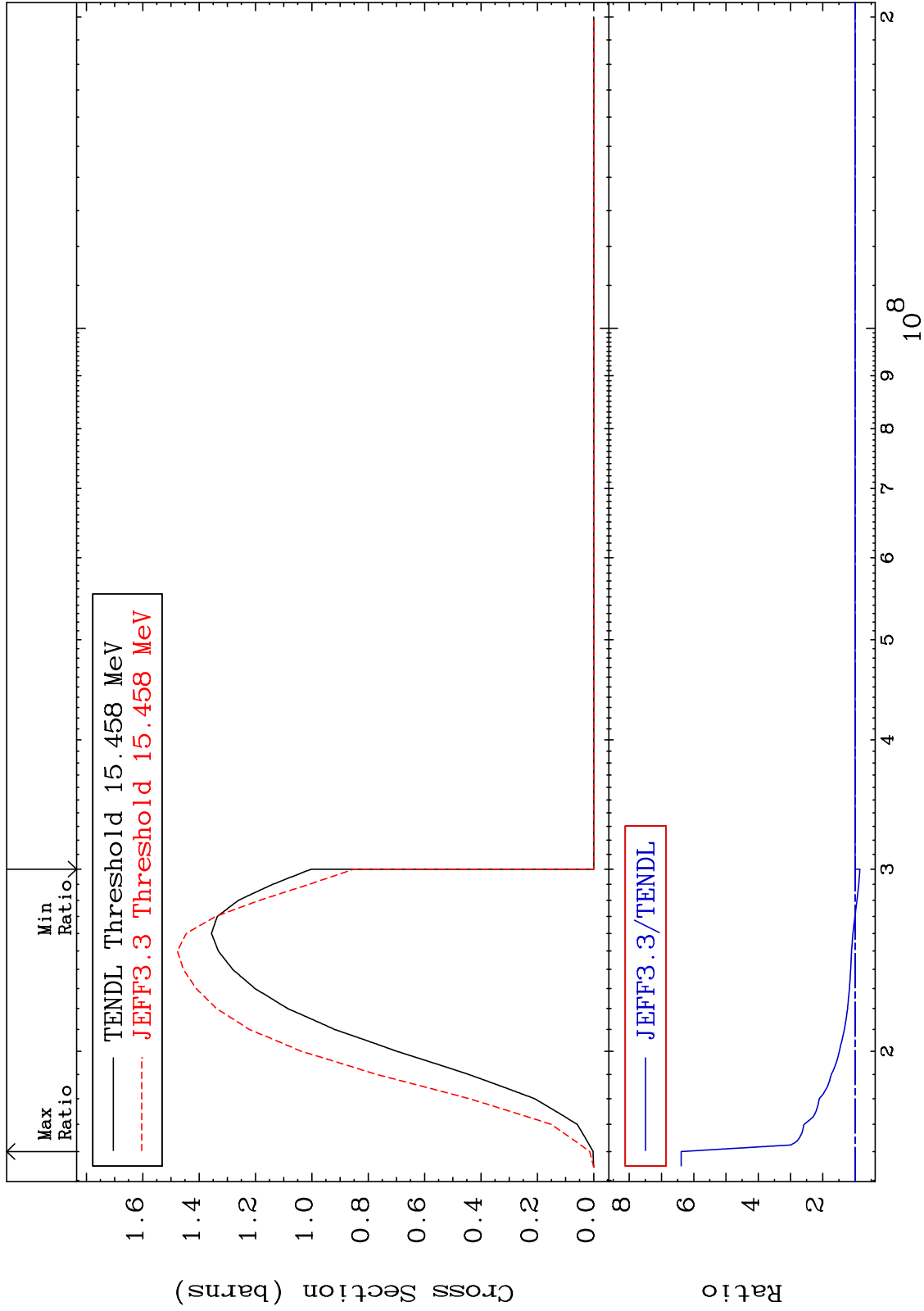
MAT 7425

(n, 3n)

74-W -180

Cross Section

-15.14 To 538.8 %



6

74-W -180

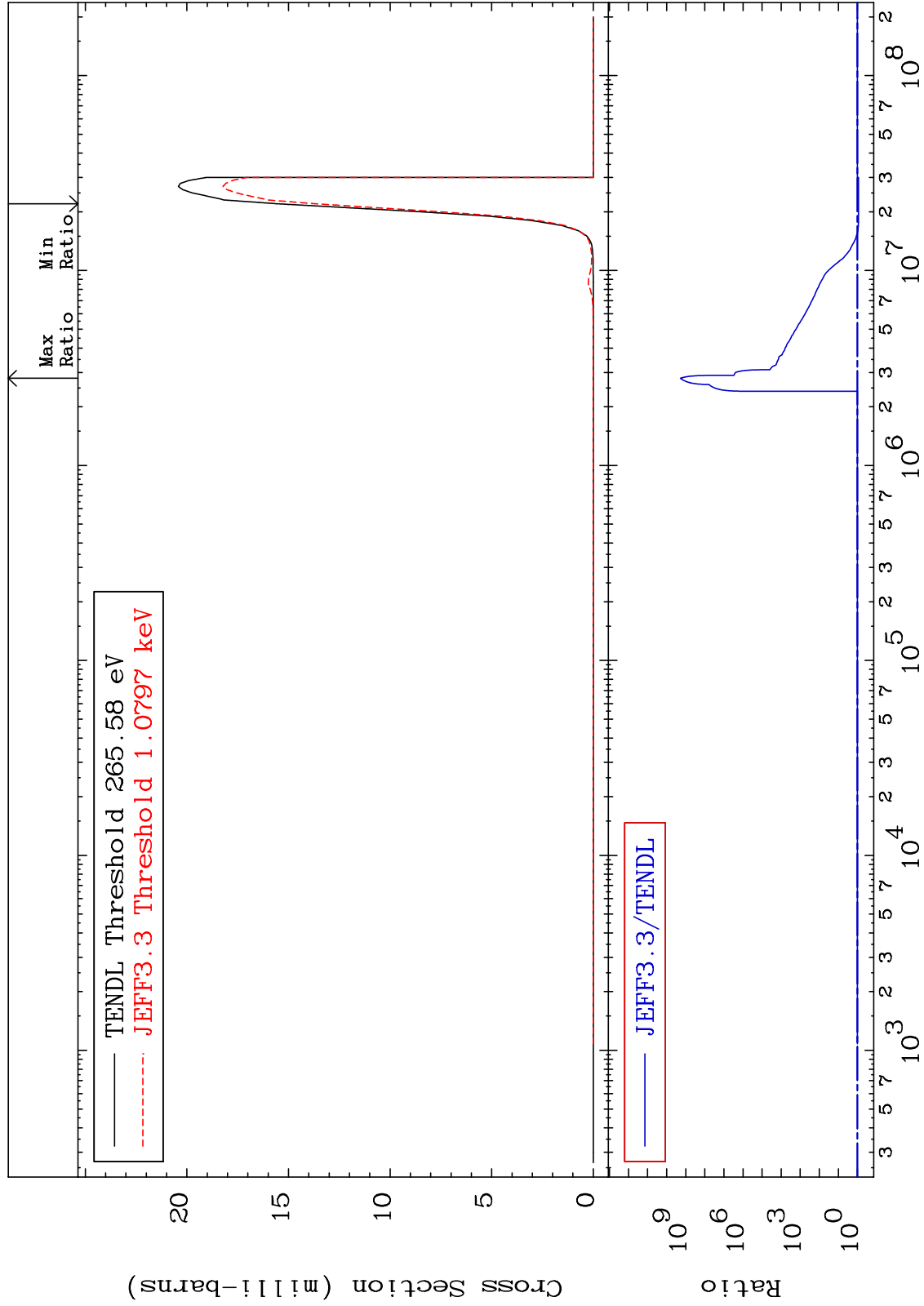
MAT 7425

(n, n') α

Cross Section

74-W -180

-11.98 To 9999. %



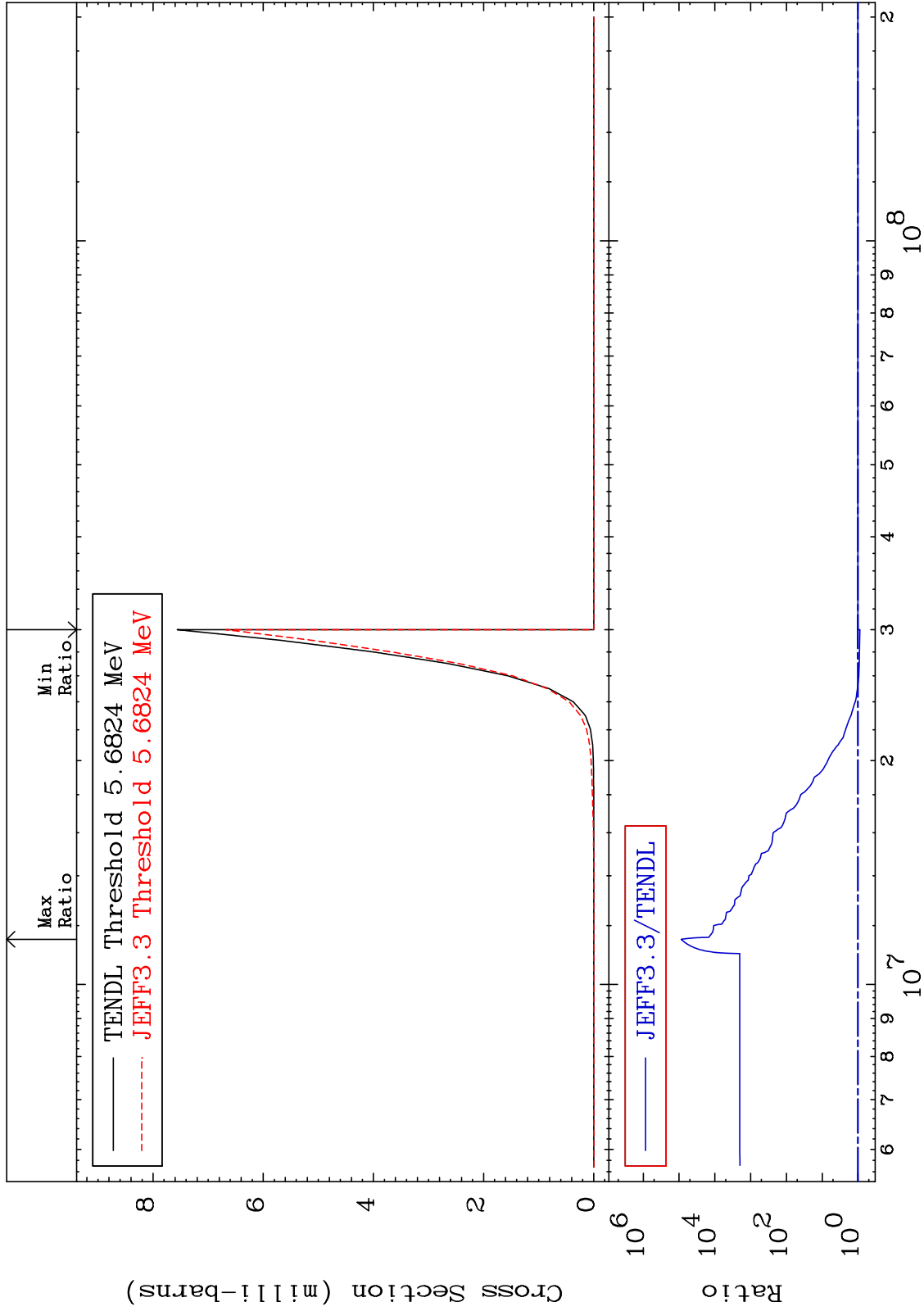
MAT 7425

(n,2n) α

74-W -180

-11.67 To 9999. %

Cross Section



8

Incident Energy (eV)

74-W -180

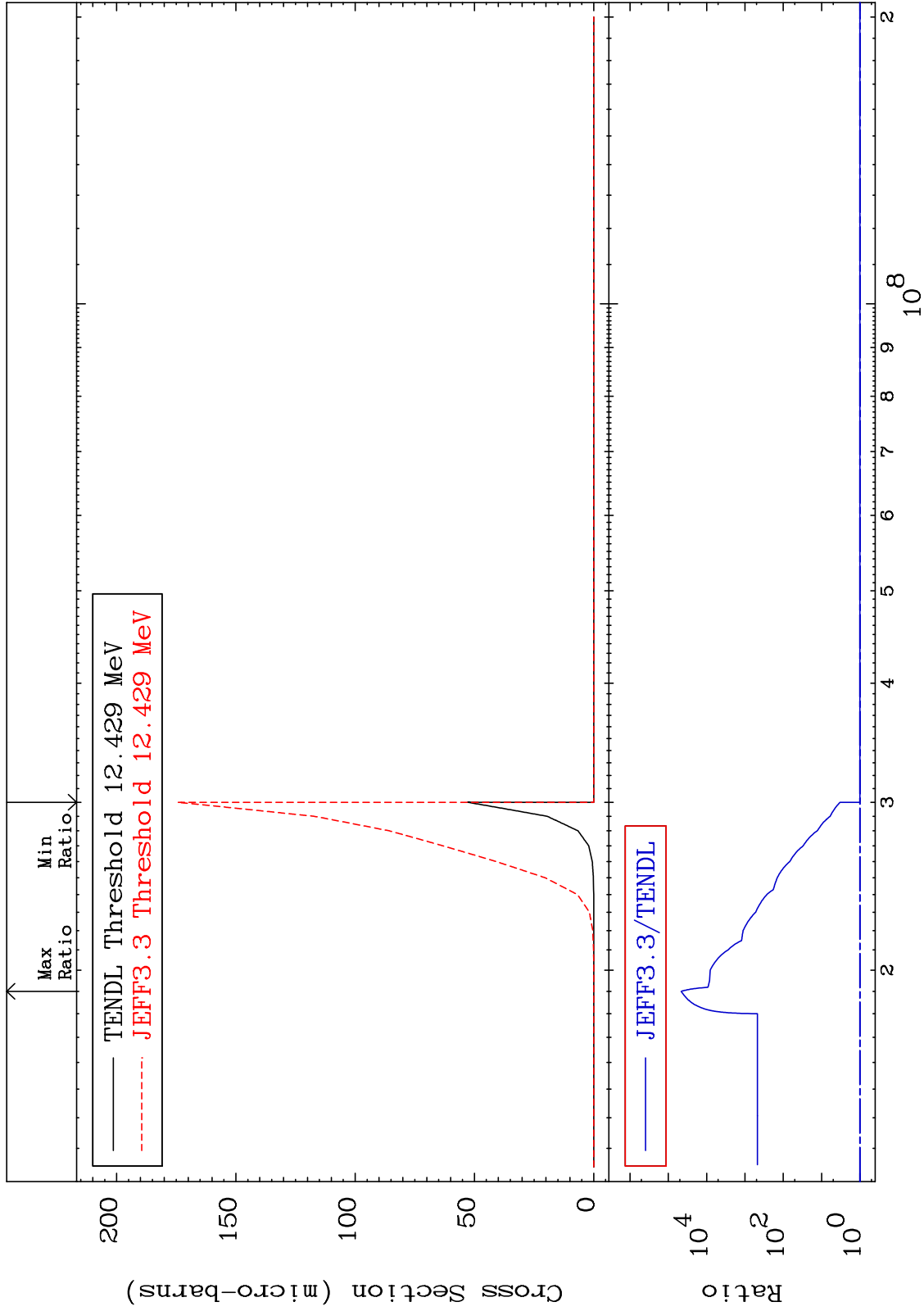
MAT 7425

(n,3n) α

74-W -180

Cross Section

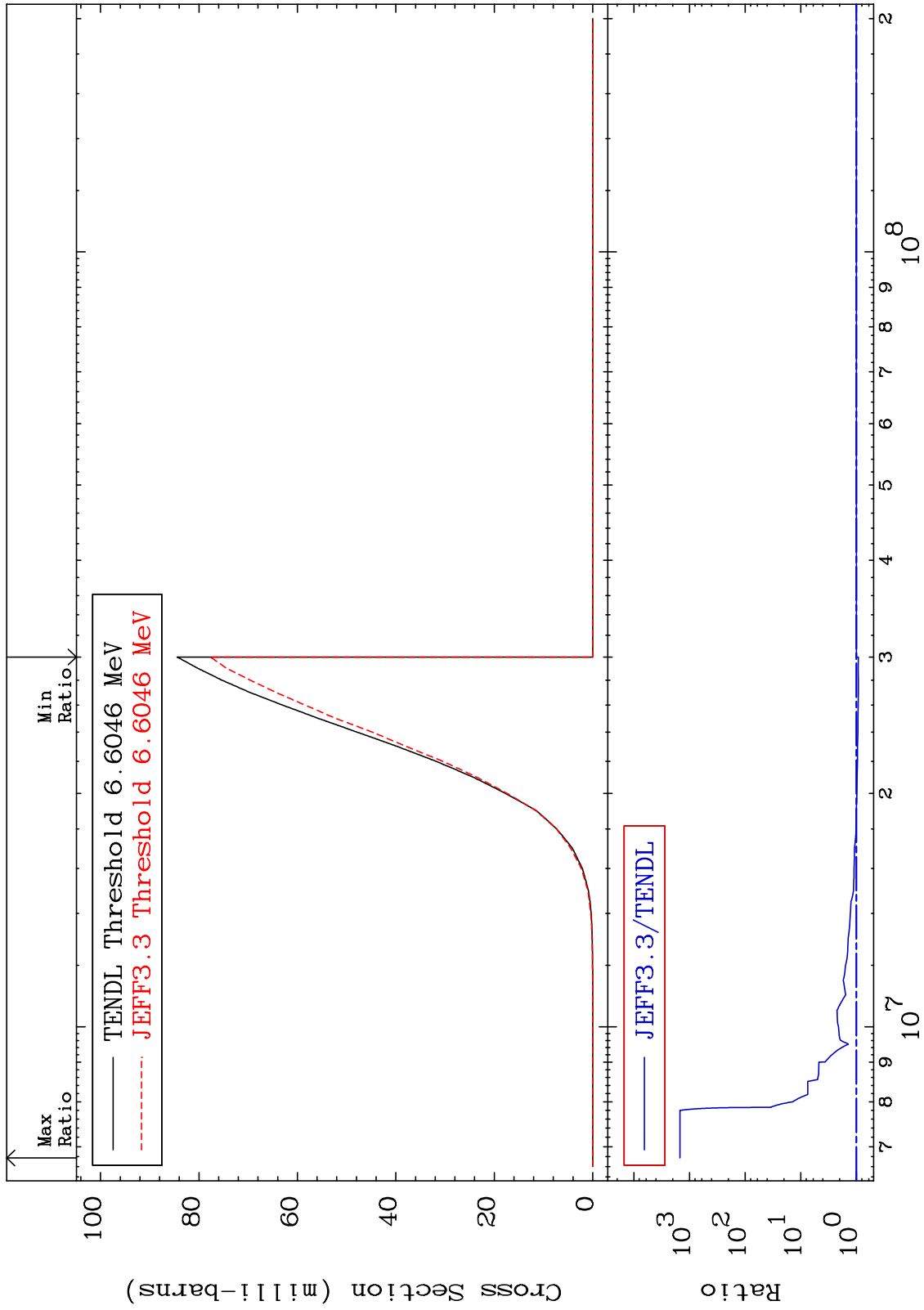
0.000 To 9999. %



MAT 7425

(n,n') p
Cross Section

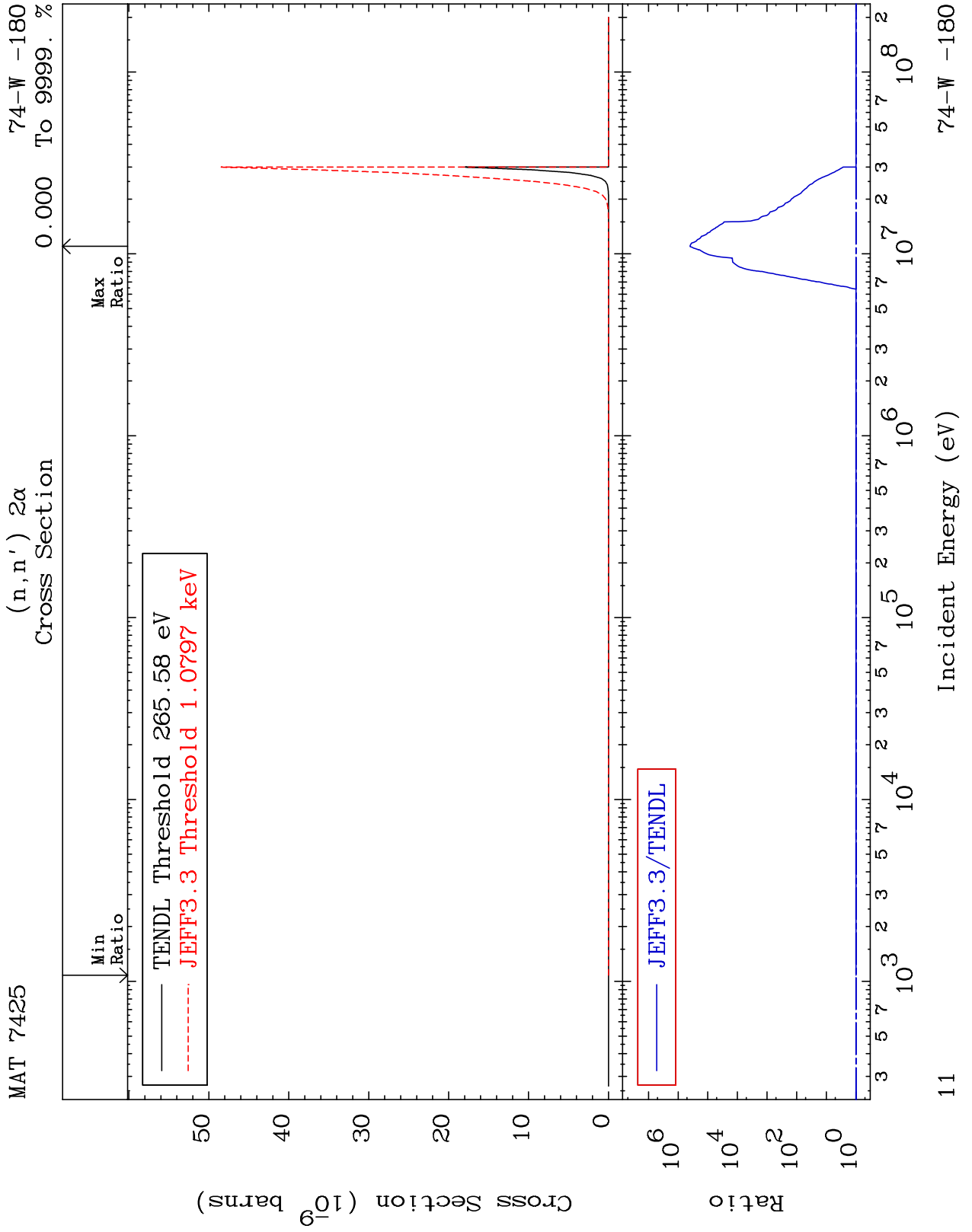
74-W -180
-8.010 To 9999. %



10

Incident Energy (eV)

74-W -180



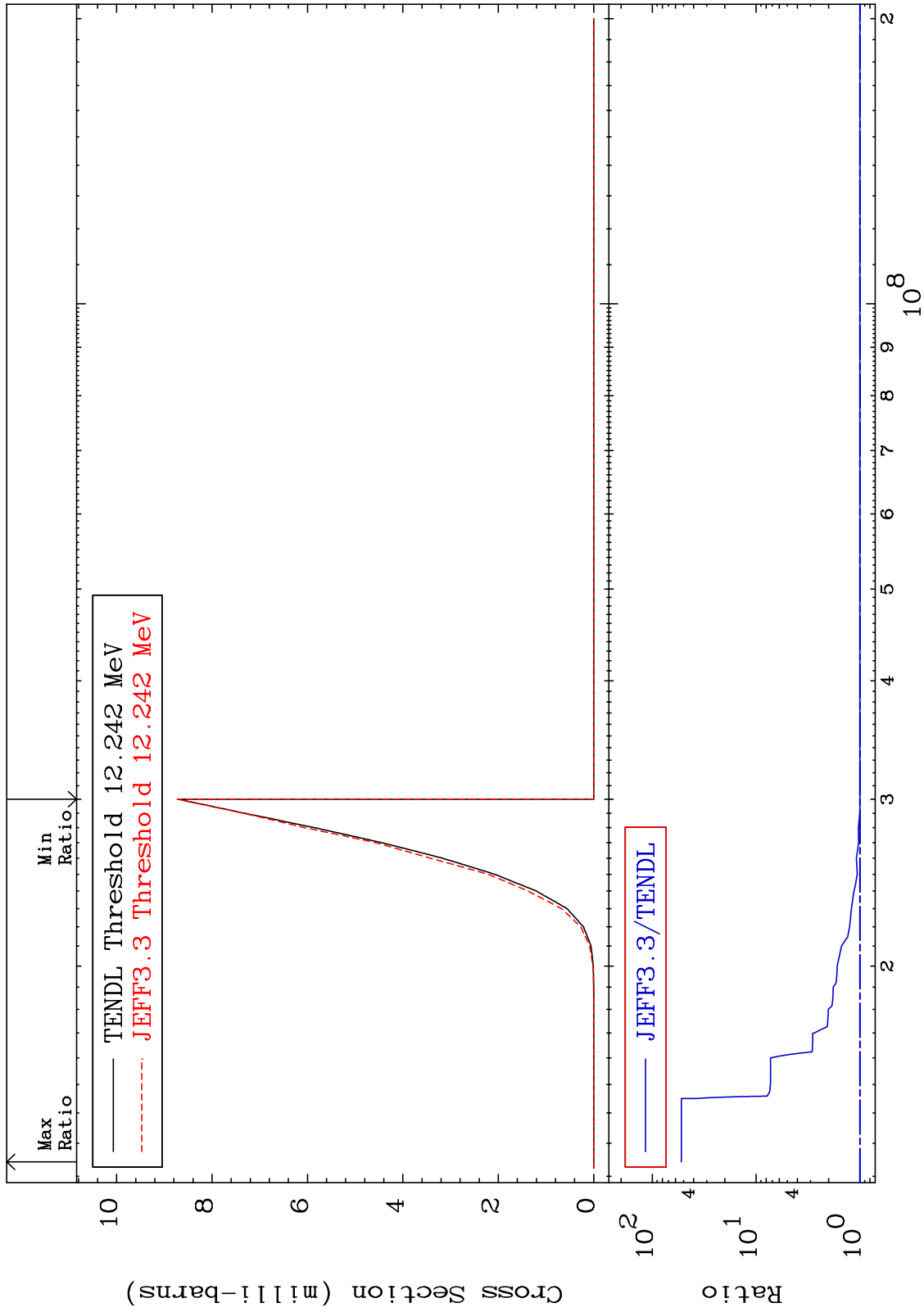
MAT 7425

(n, n') d

74-W -180

Cross Section

0.000 To 5175. %



12

Incident Energy (eV)

74-W -180

MAT 7425

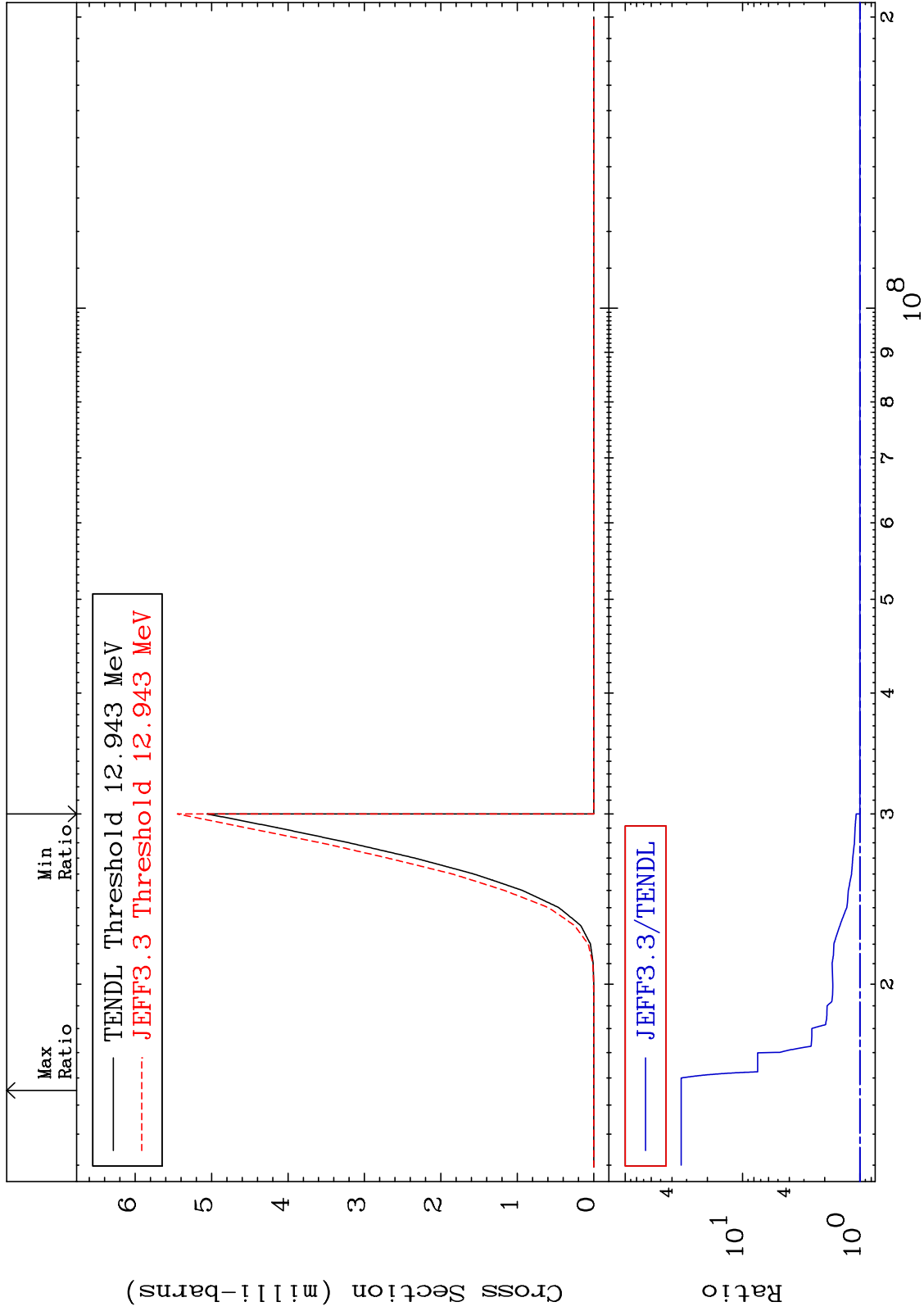
(n,n') t

74-W -180

Cross Section

0.000

To 3237. %



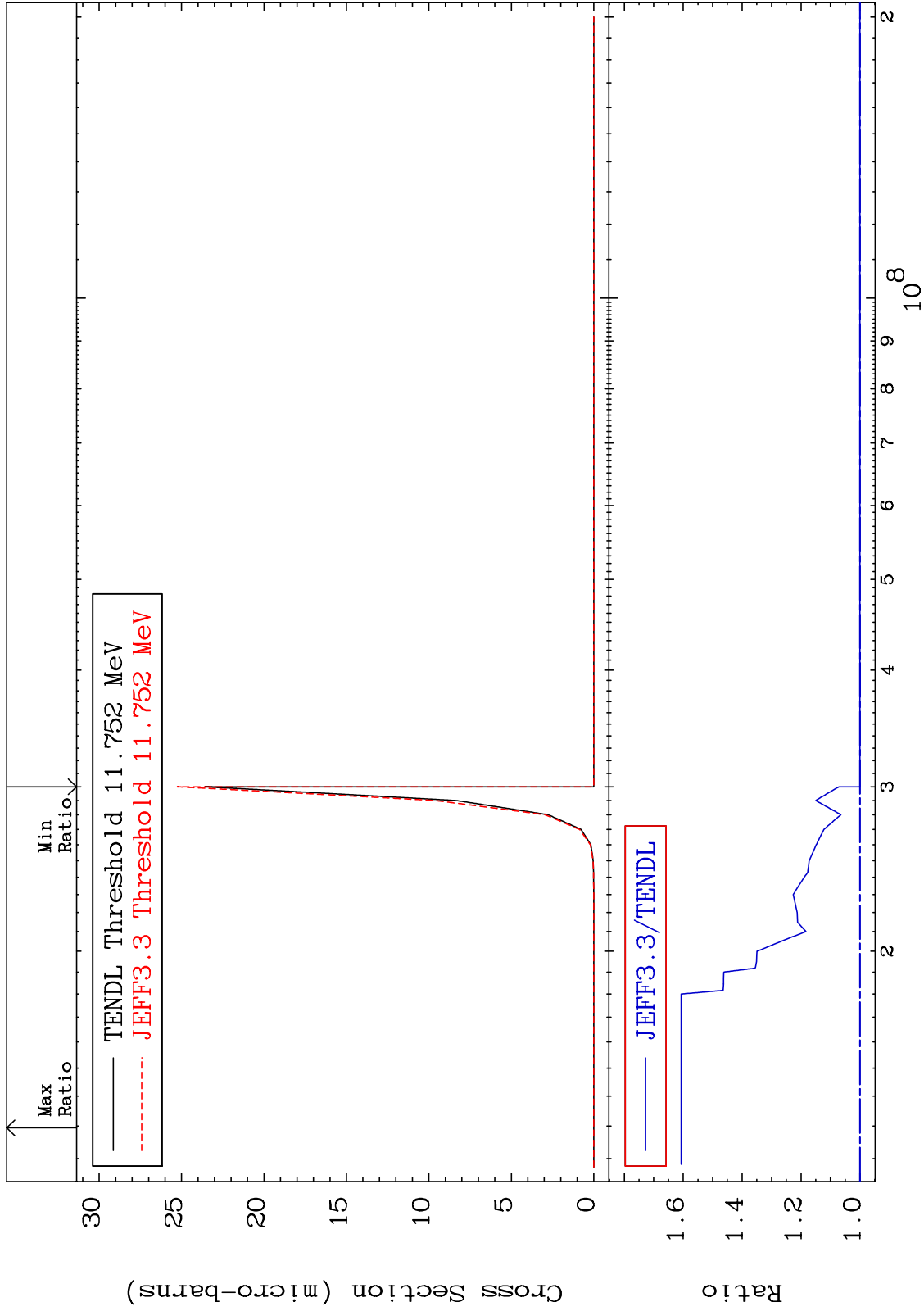
74-W -180

13

MAT 7425

(n,n') He-3
Cross Section

74-W -180
0.000 To 60.66 %



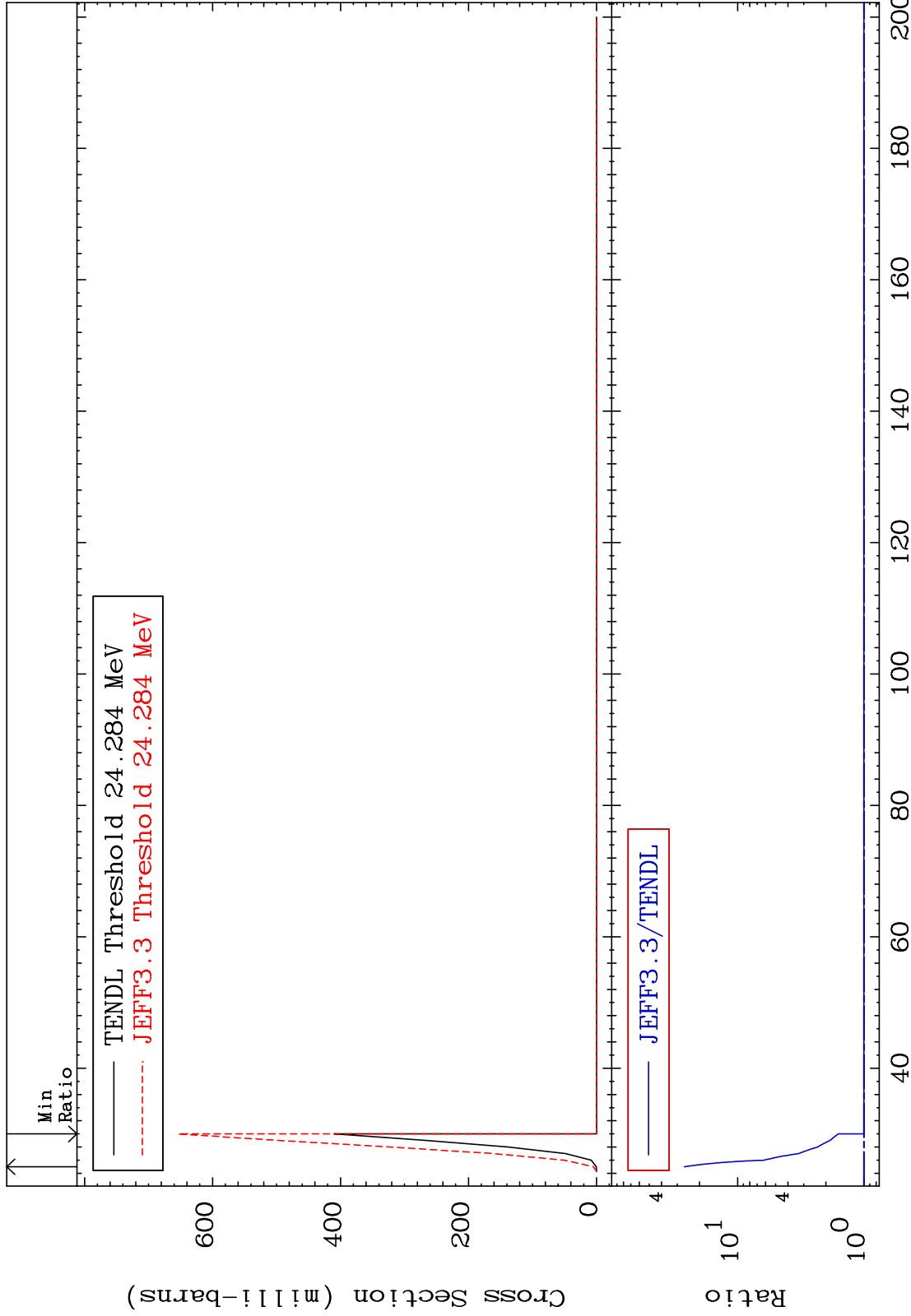
MAT 7425

(n, 4n)

74-W -180

Cross Section

0.000 To 2537. %



15

Incident Energy (MeV)

74-W -180

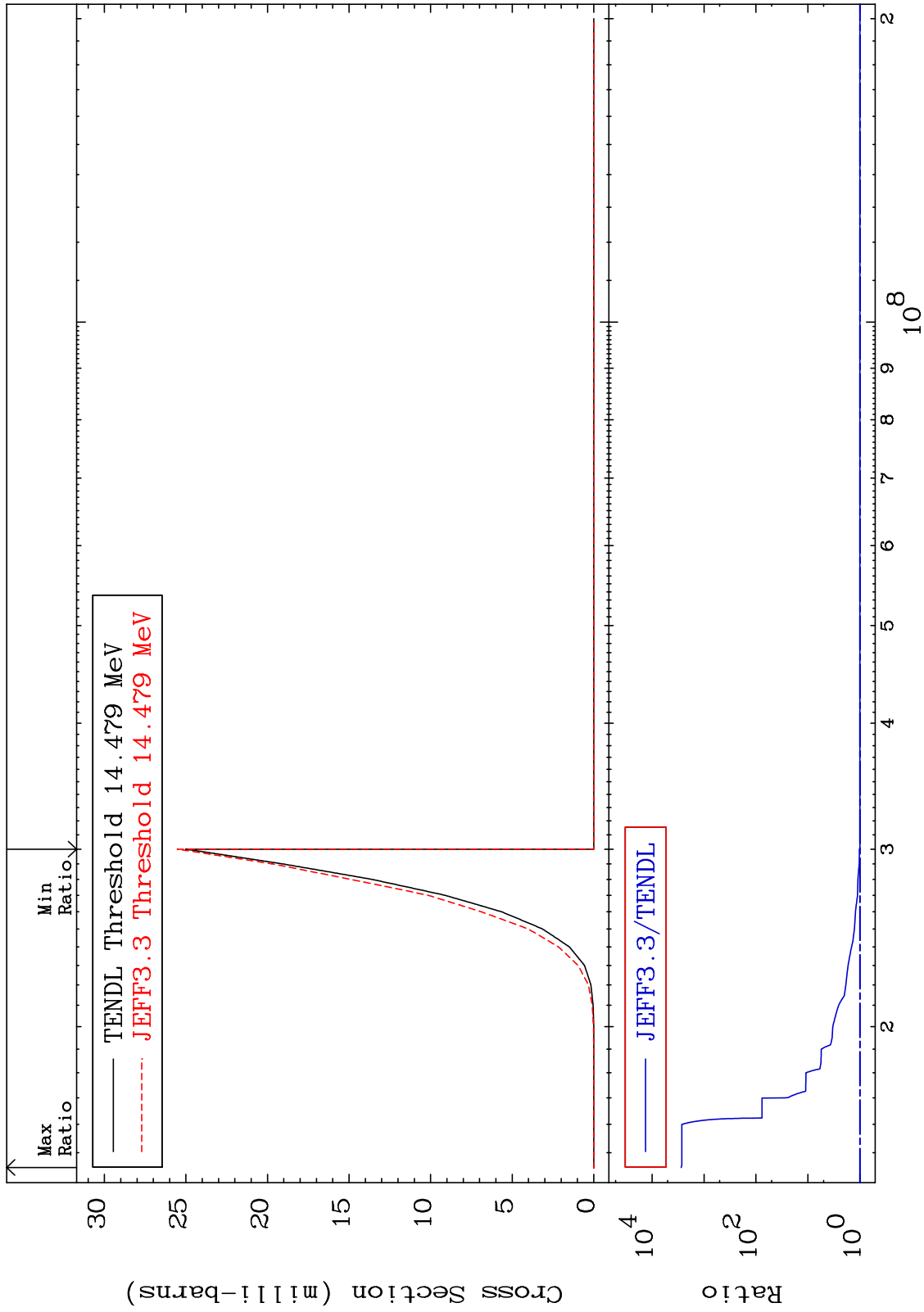
MAT 7425

(n,2n) p

74-W -180

Cross Section

0.000 To 9999. %



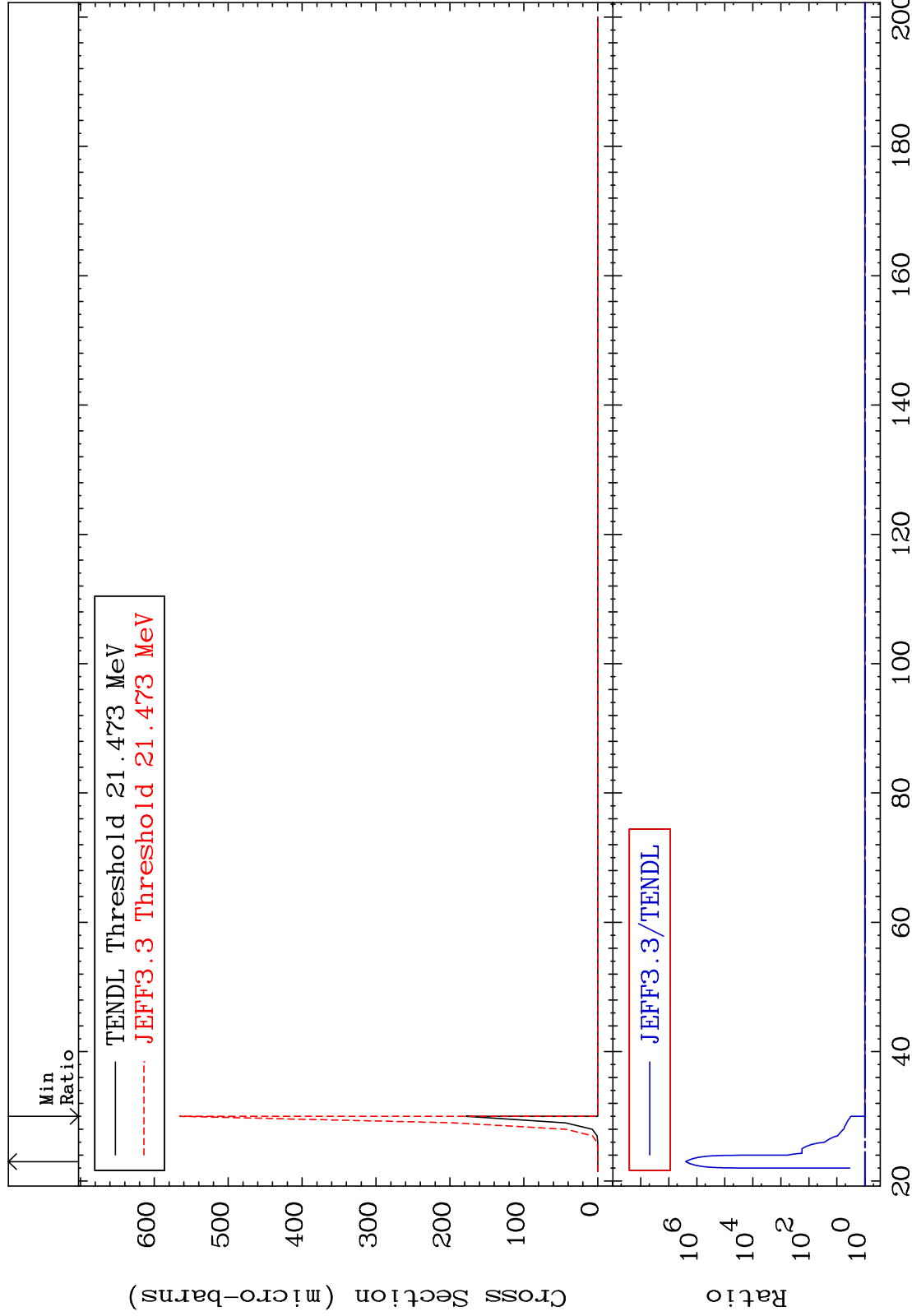
MAT 7425

(n,3n) p

74-W -180

Cross Section

0.000 To 9999. %



MAT 7425

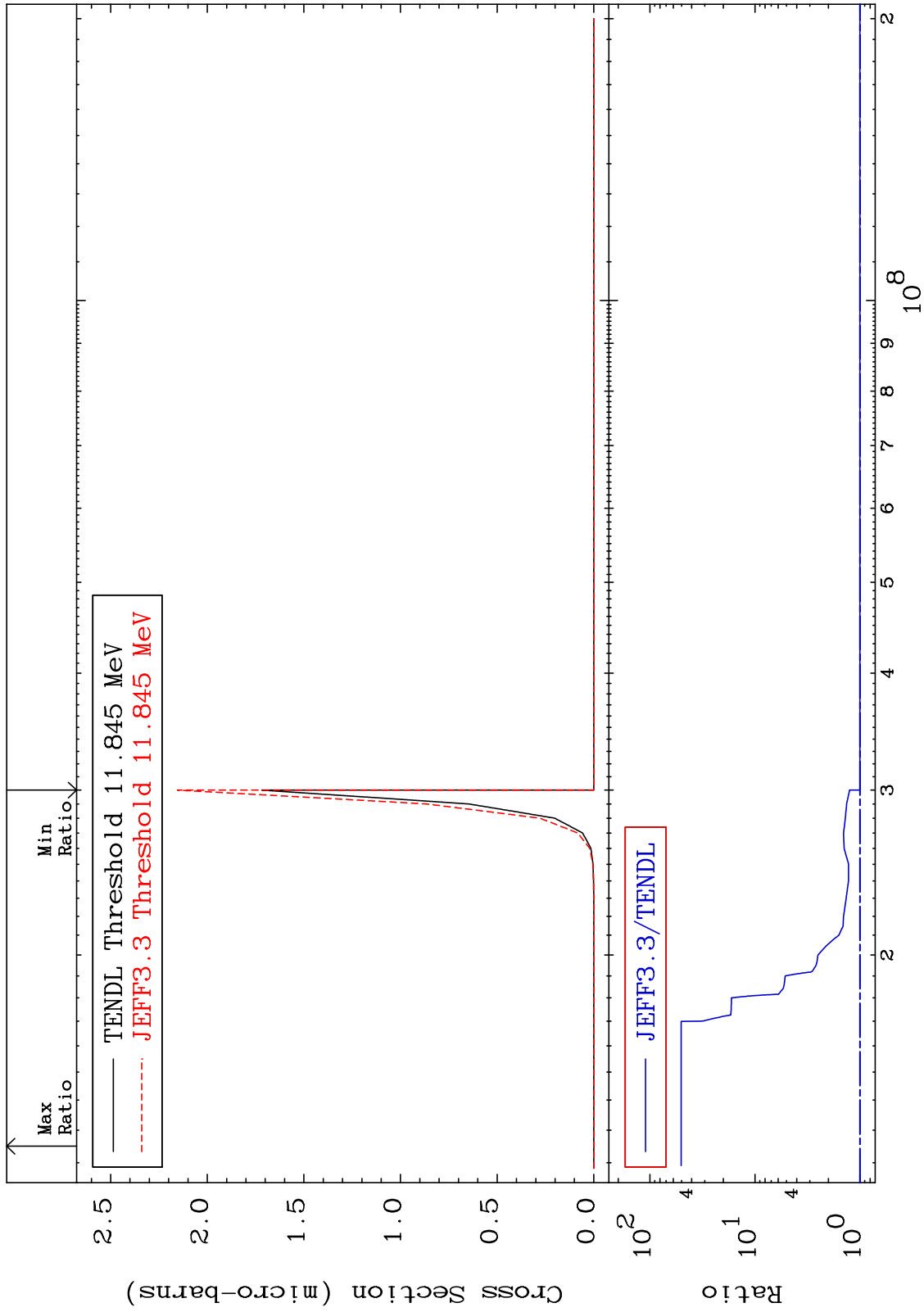
(n,2n) p

74-W -180

Cross Section

0.000

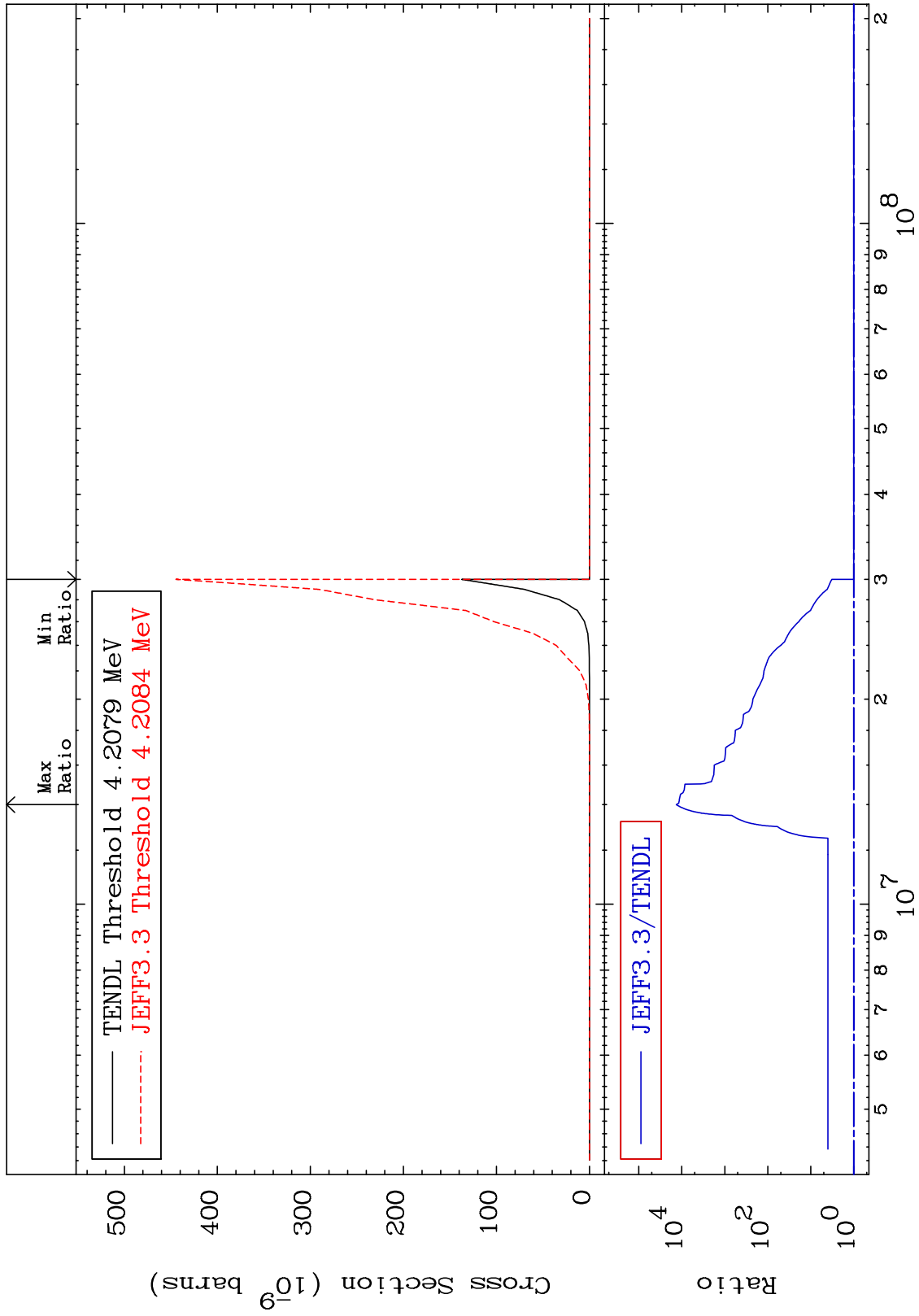
To 4930. %



MAT 7425

(n, n') p α
Cross Section

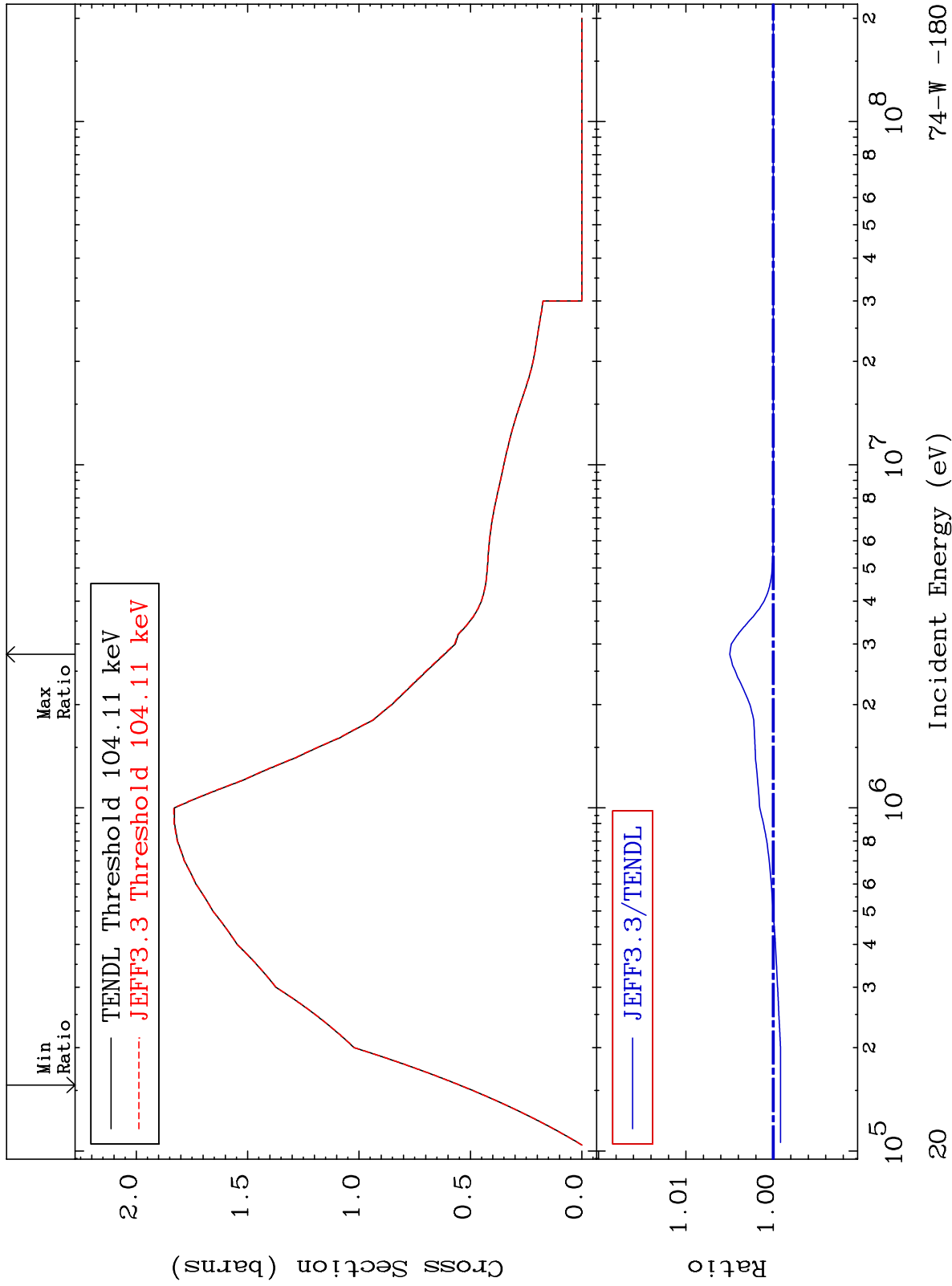
74-W -180
To 9999. %
0.000



74-W -180

Incident Energy (eV)

MAT 7425 MT= 51 (n, n') Level Cross Section -0.082 To 0.499 % 74-W -180



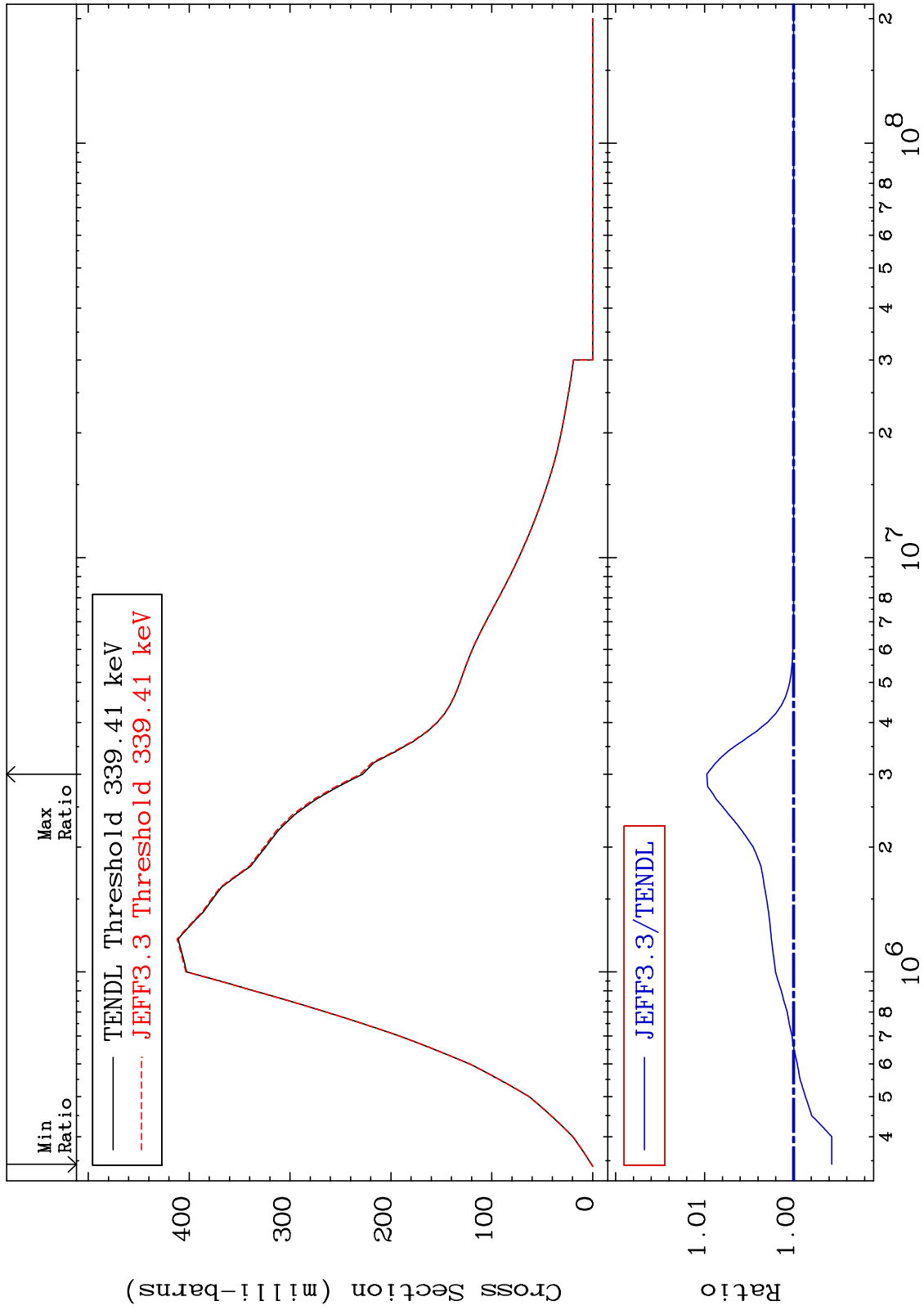
74-W -180

20

MAT 7425

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

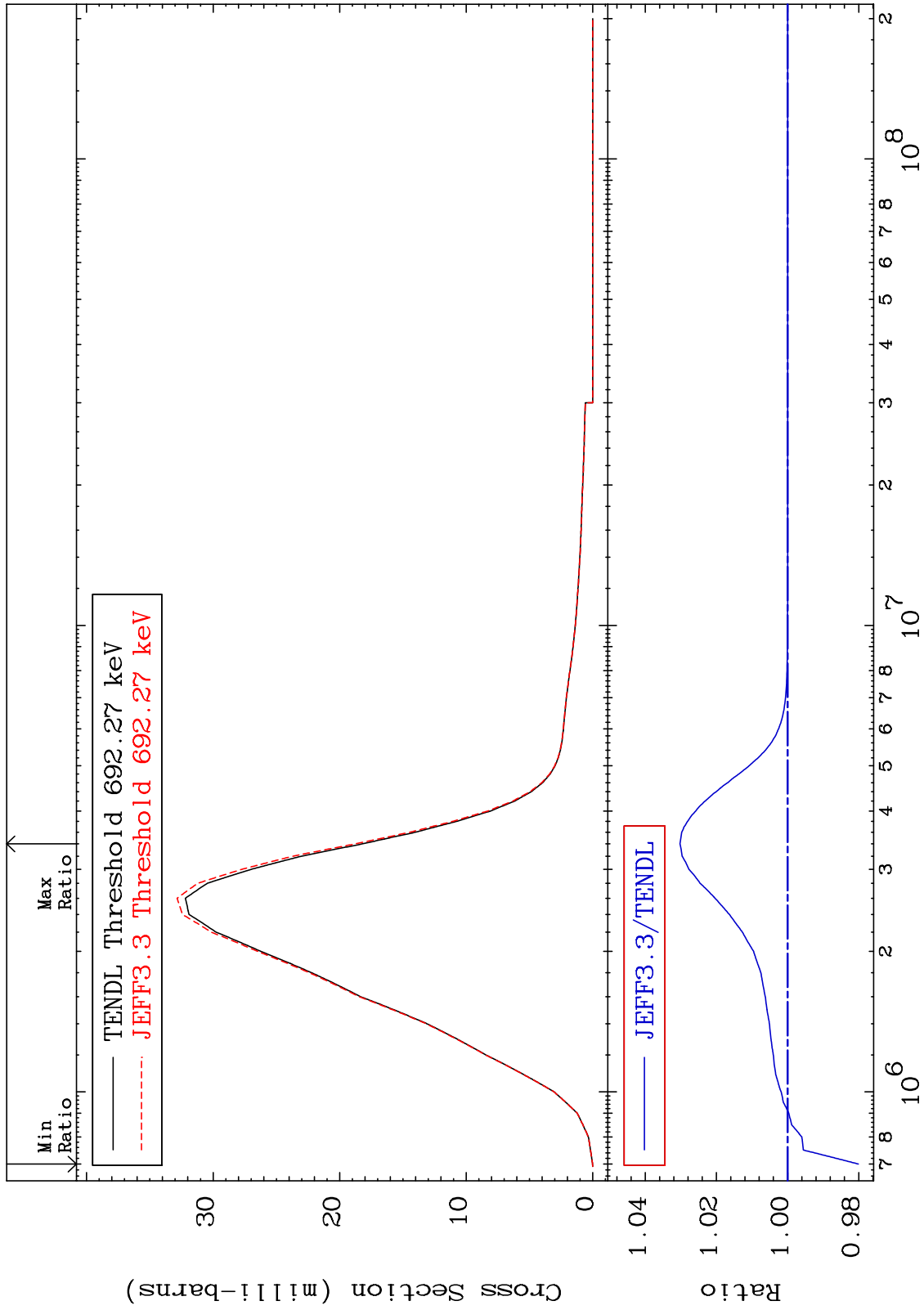
74-W -180
-0.429 To 0.976 %



MAT 7425

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

74-W -180
-1.991 To 3.025 %



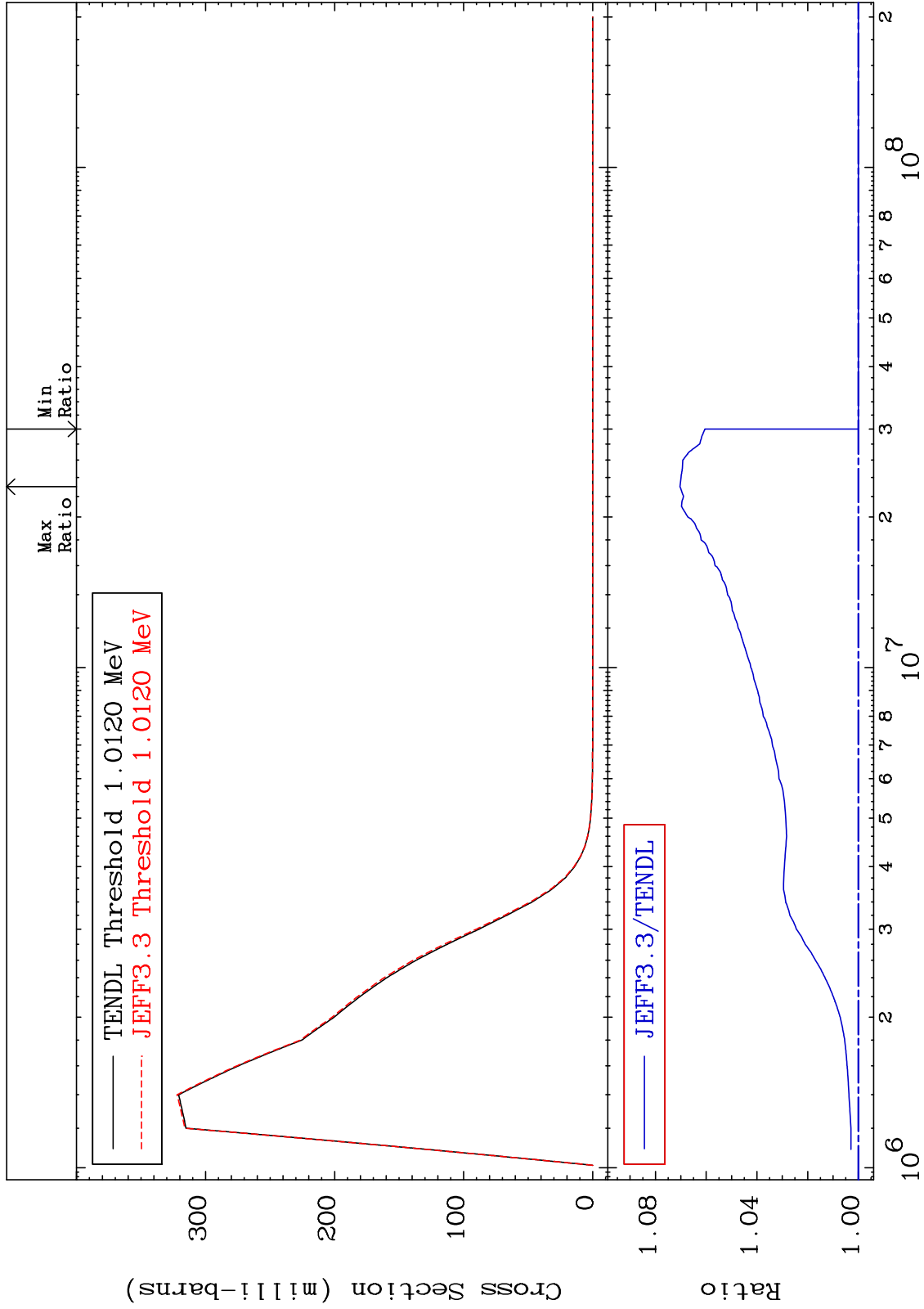
74-W -180

22

MAT 7425

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

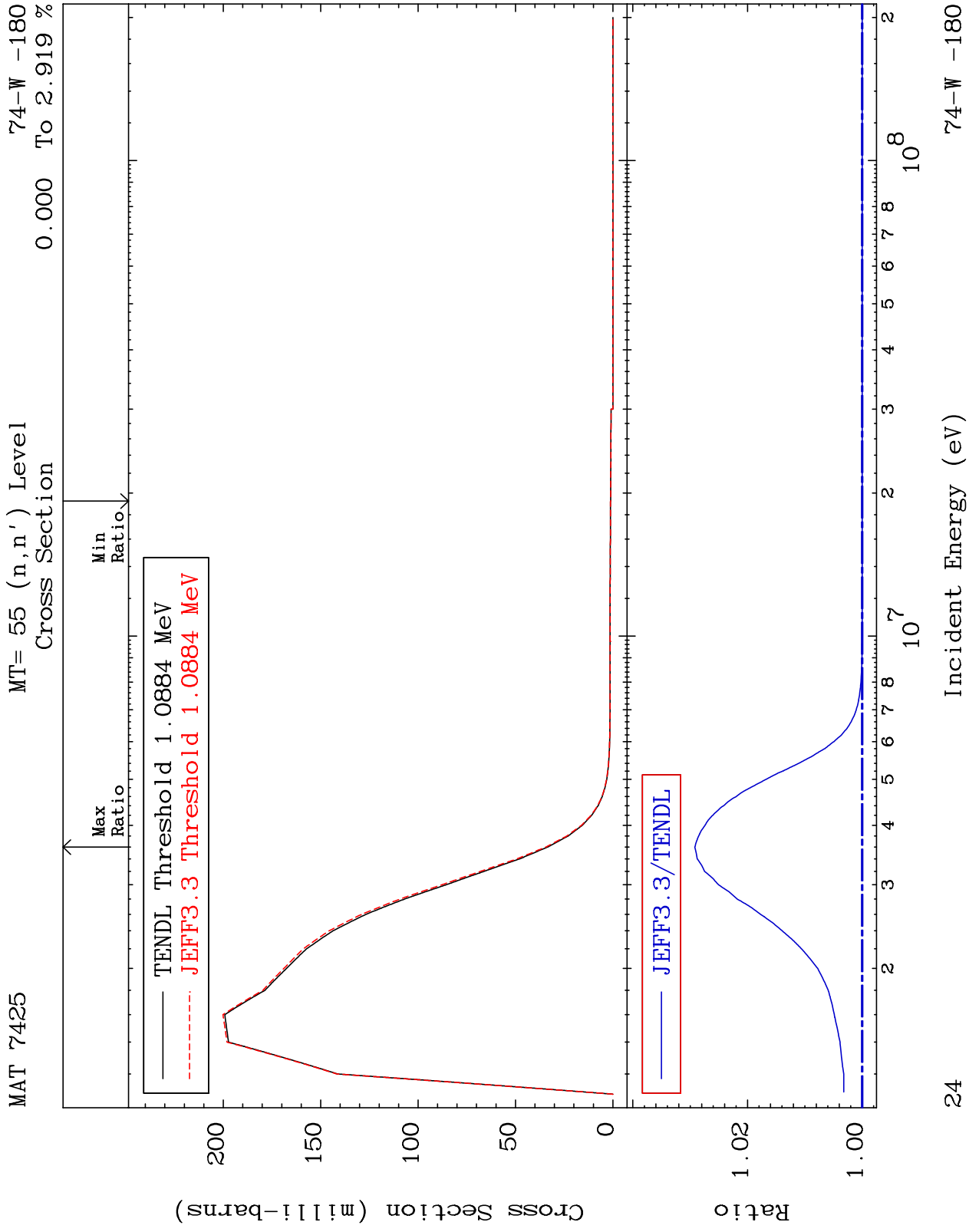
74-W -180
0.000 To 7.032 %



Incident Energy (eV)

74-W -180

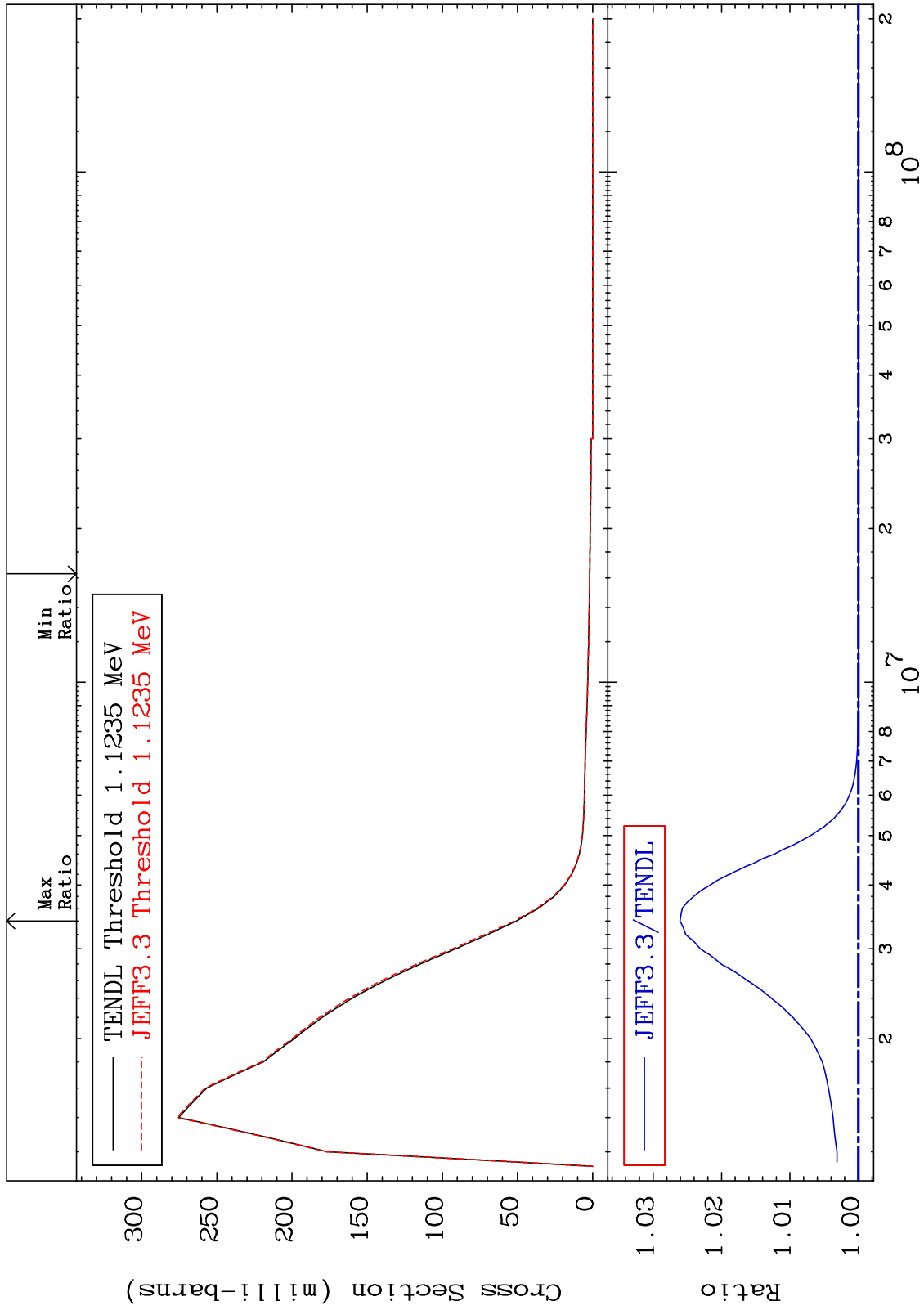
23



MAT 7425

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

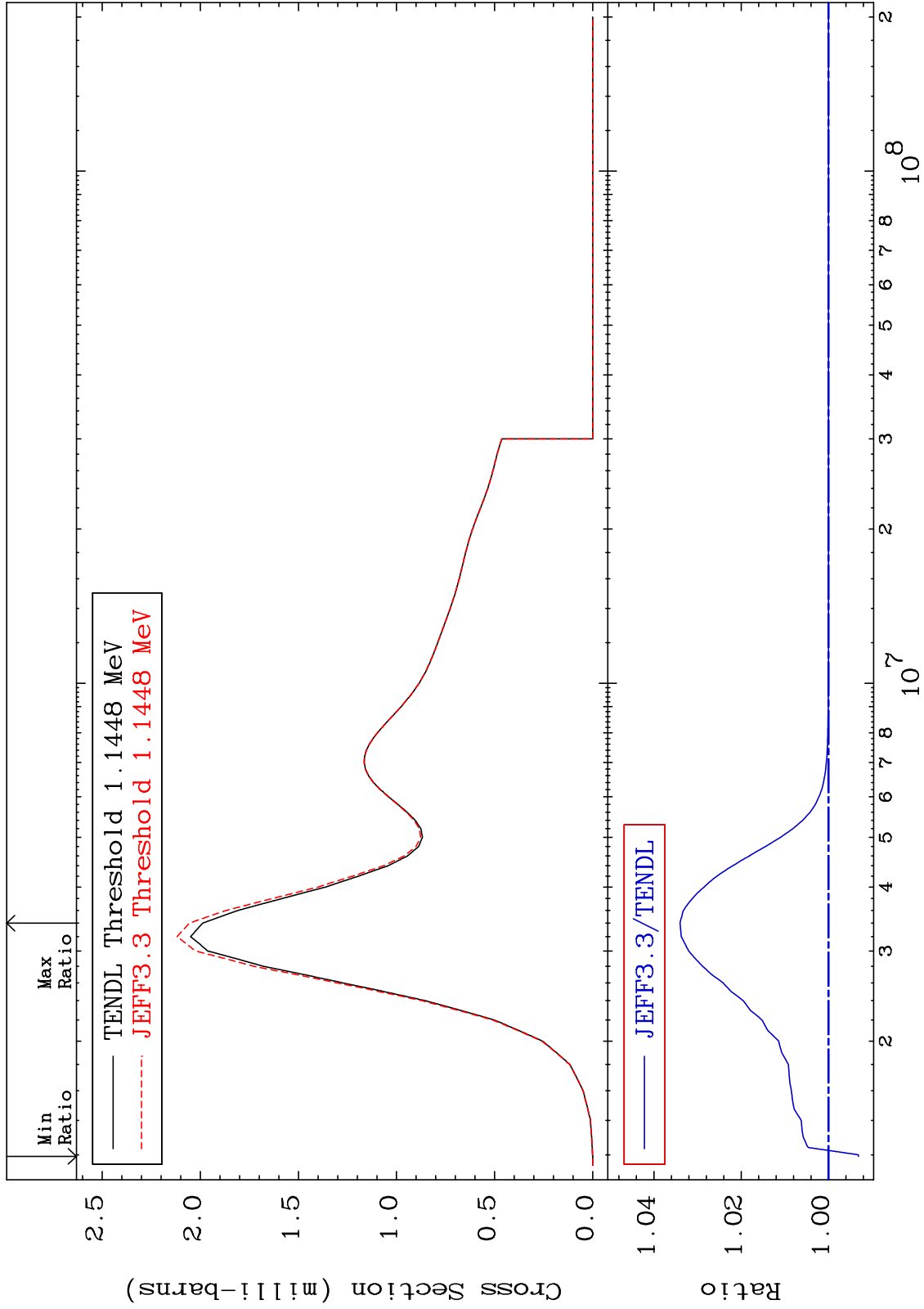
74-W -180
0.000 To 2.606 %



MAT 7425

MT= 57 (n,n') Level
Cross Section

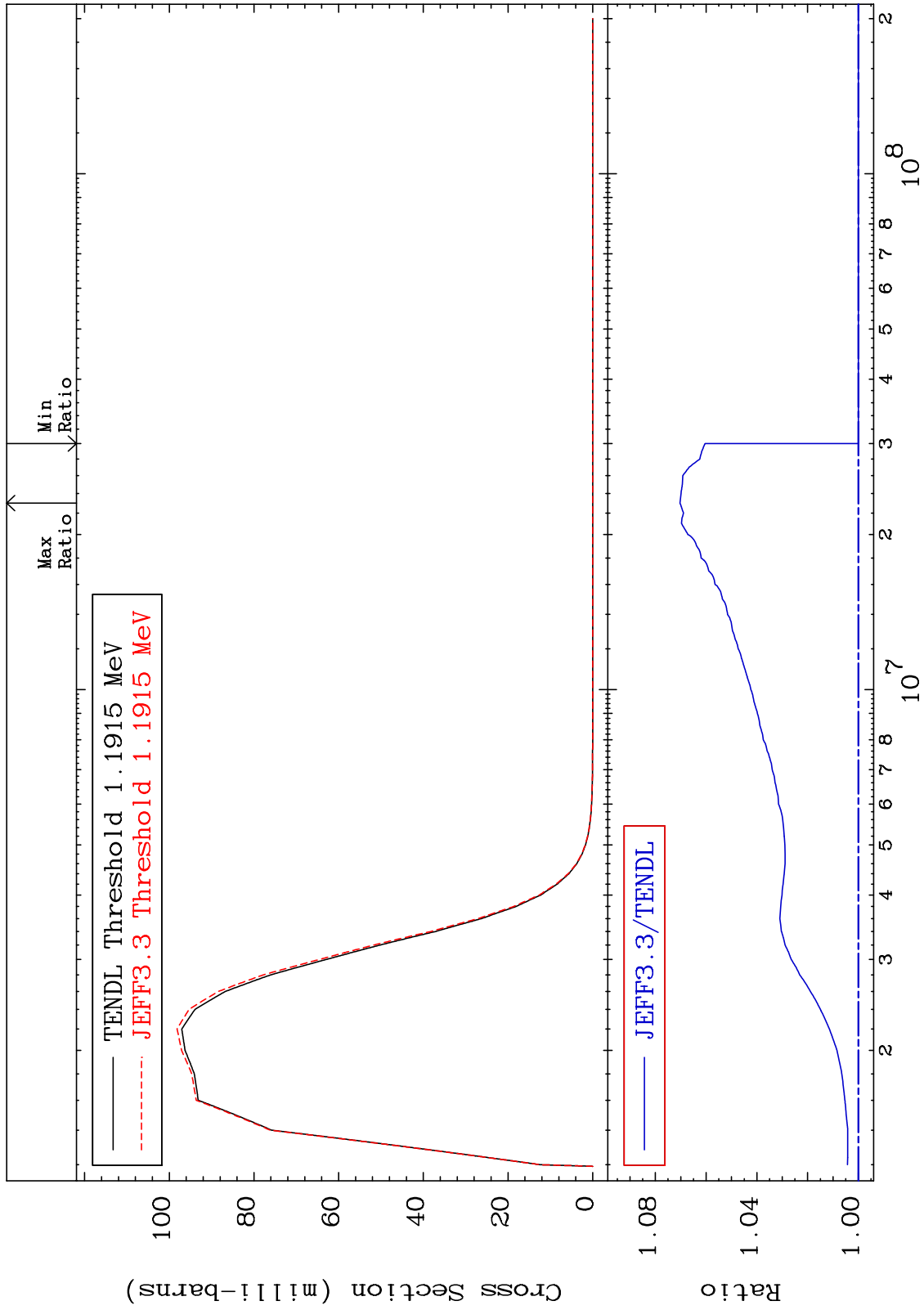
74-W -180
-0.687 To 3.401 %



MAT 7425

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

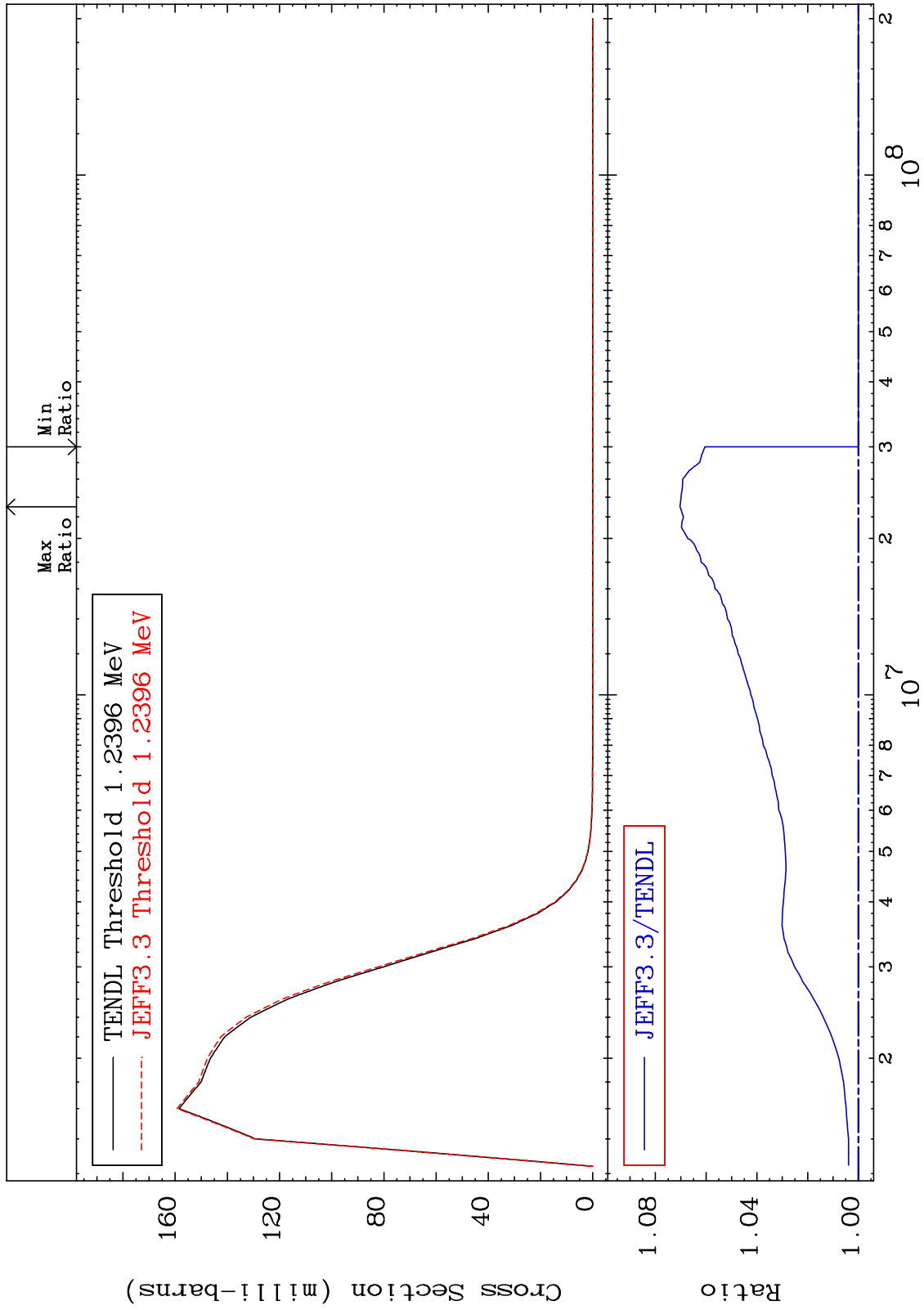
74-W -180
0.000 To 7.028 %



MAT 7425

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

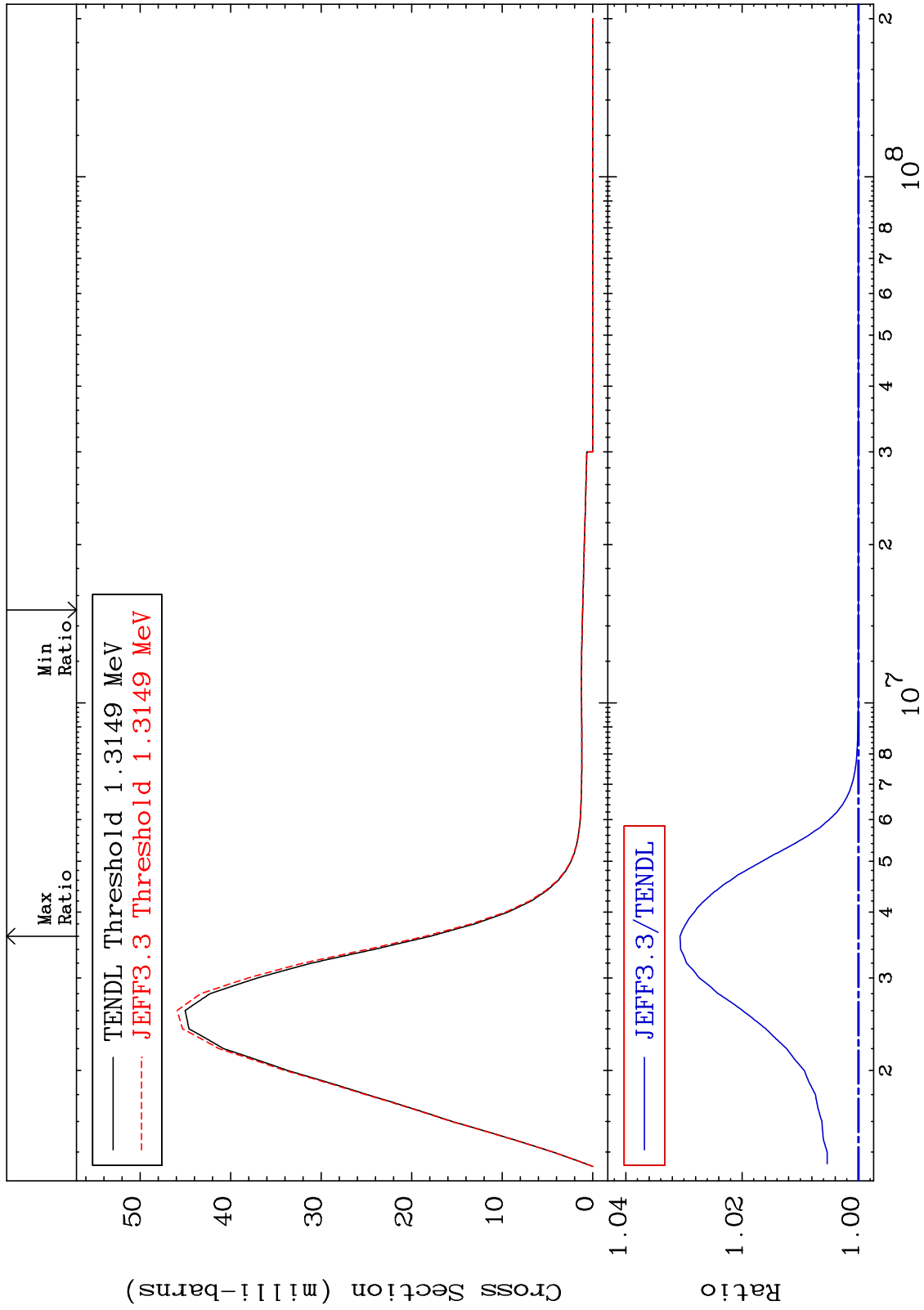
74-W -180
0.000 To 7.030 %



MAT 7425

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

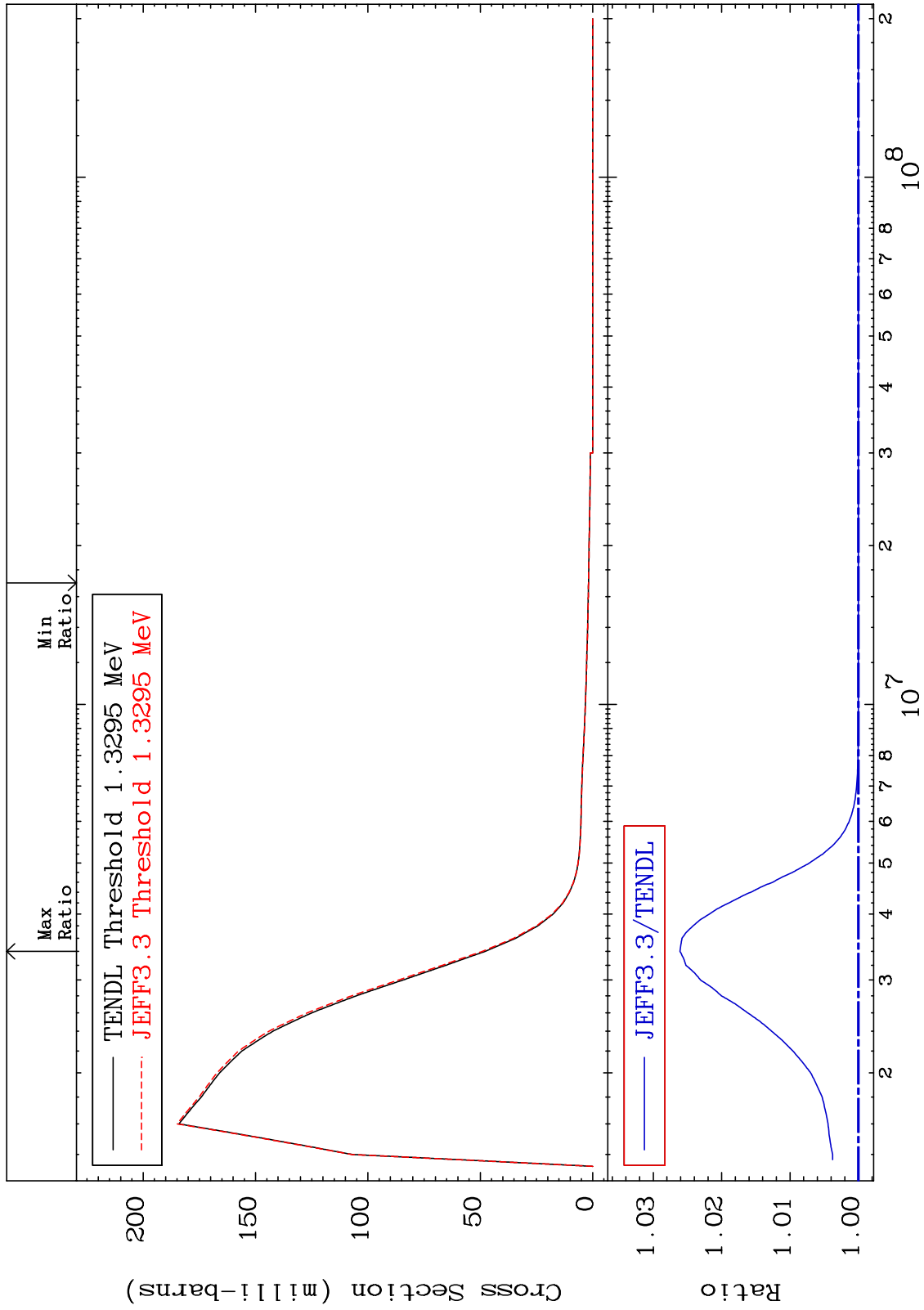
74-W -180
0.000 To 3.068 %

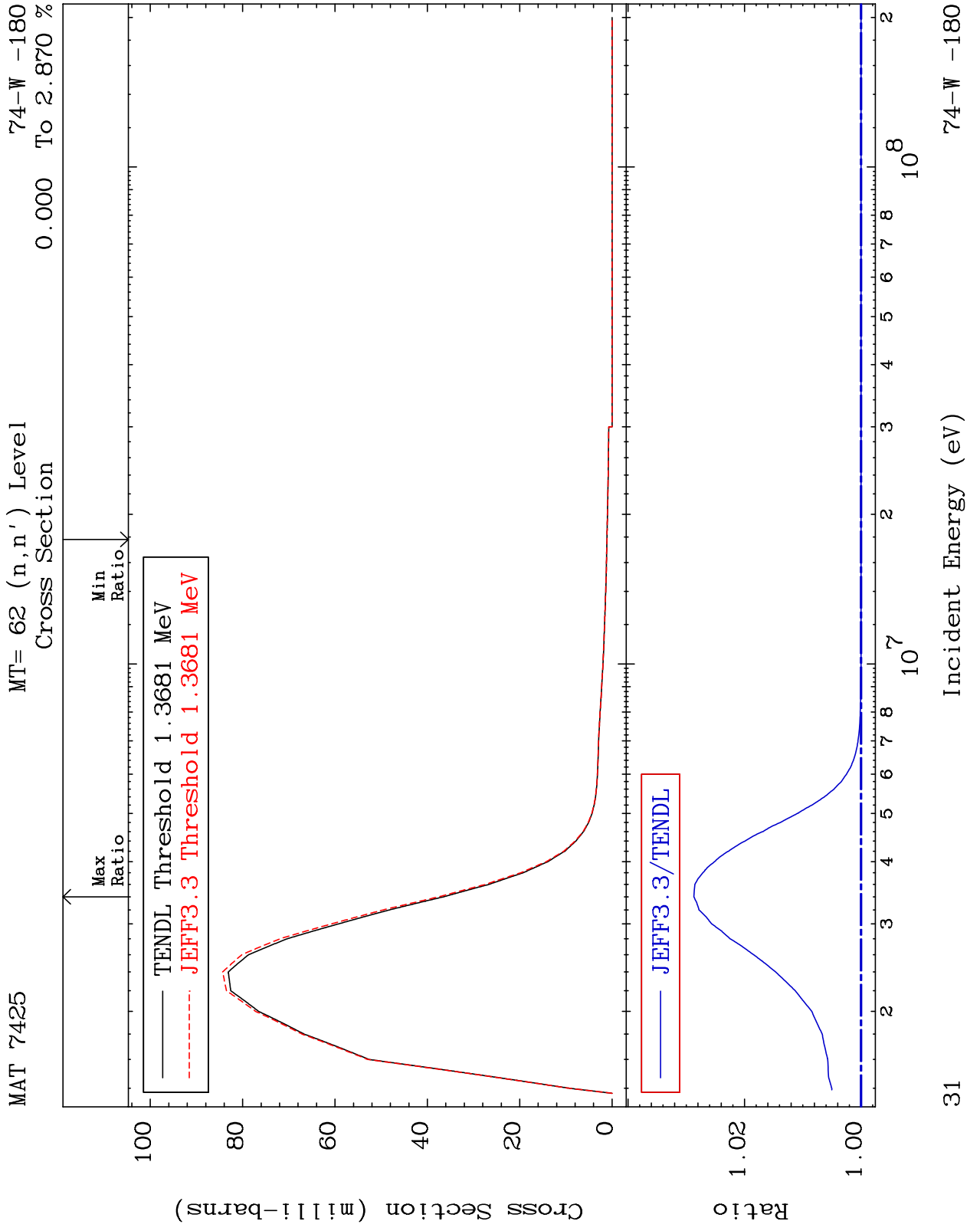


MAT 7425

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

74-W -180
0.000 To 2.609 %

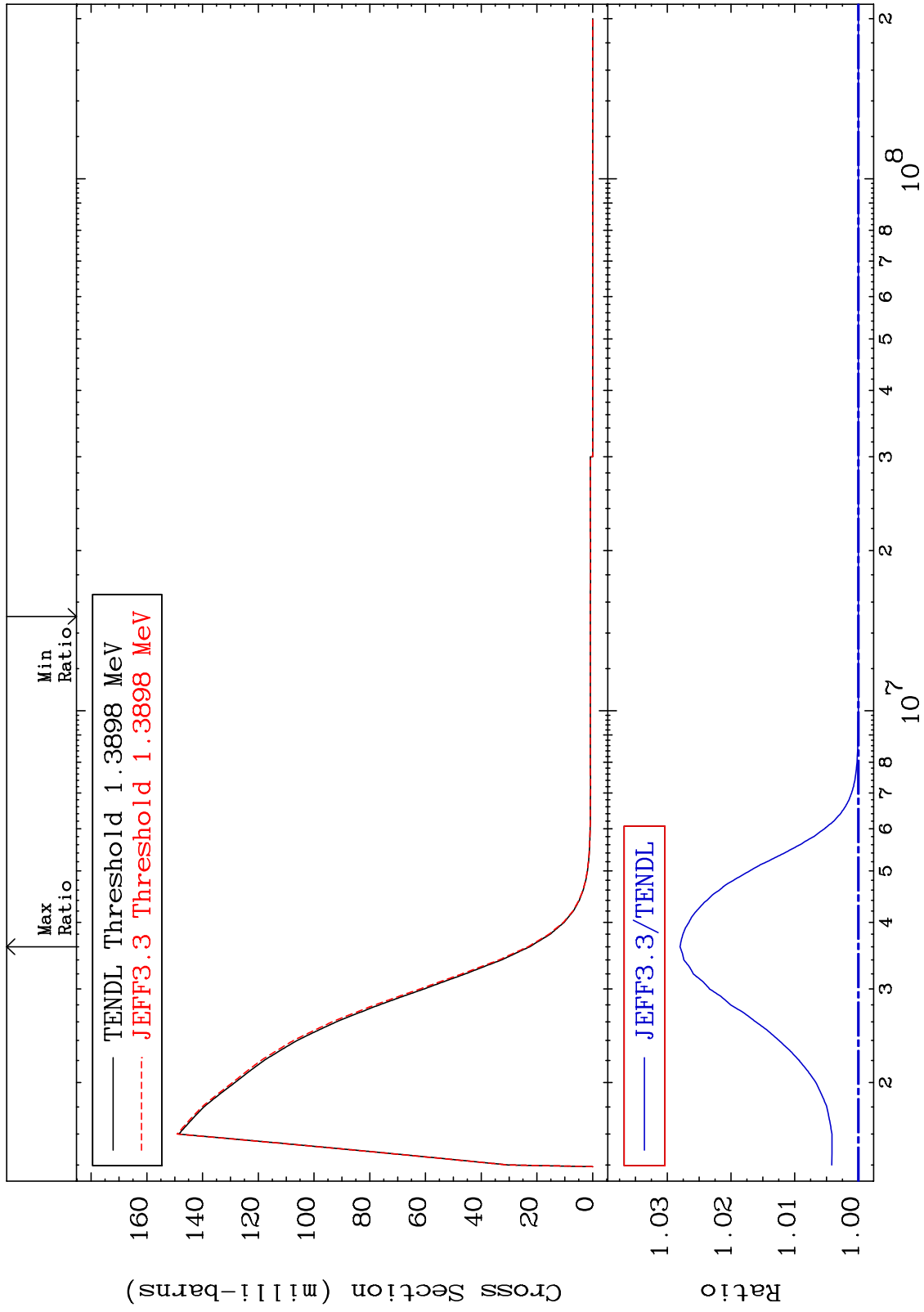




MAT 7425

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

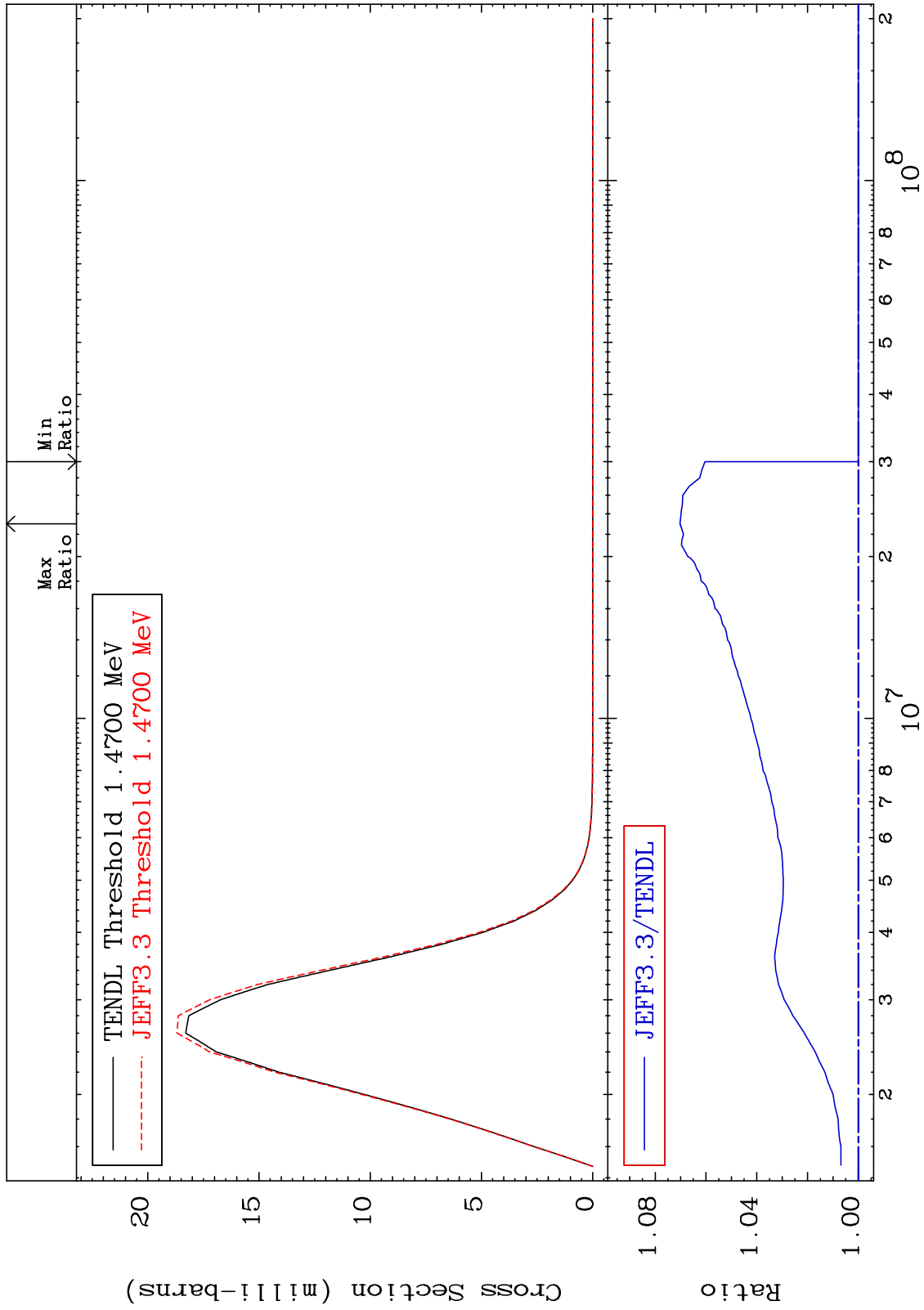
74-W -180
0.000 To 2.800 %



MAT 7425

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

74-W -180
0.000 To 7.023 %



33

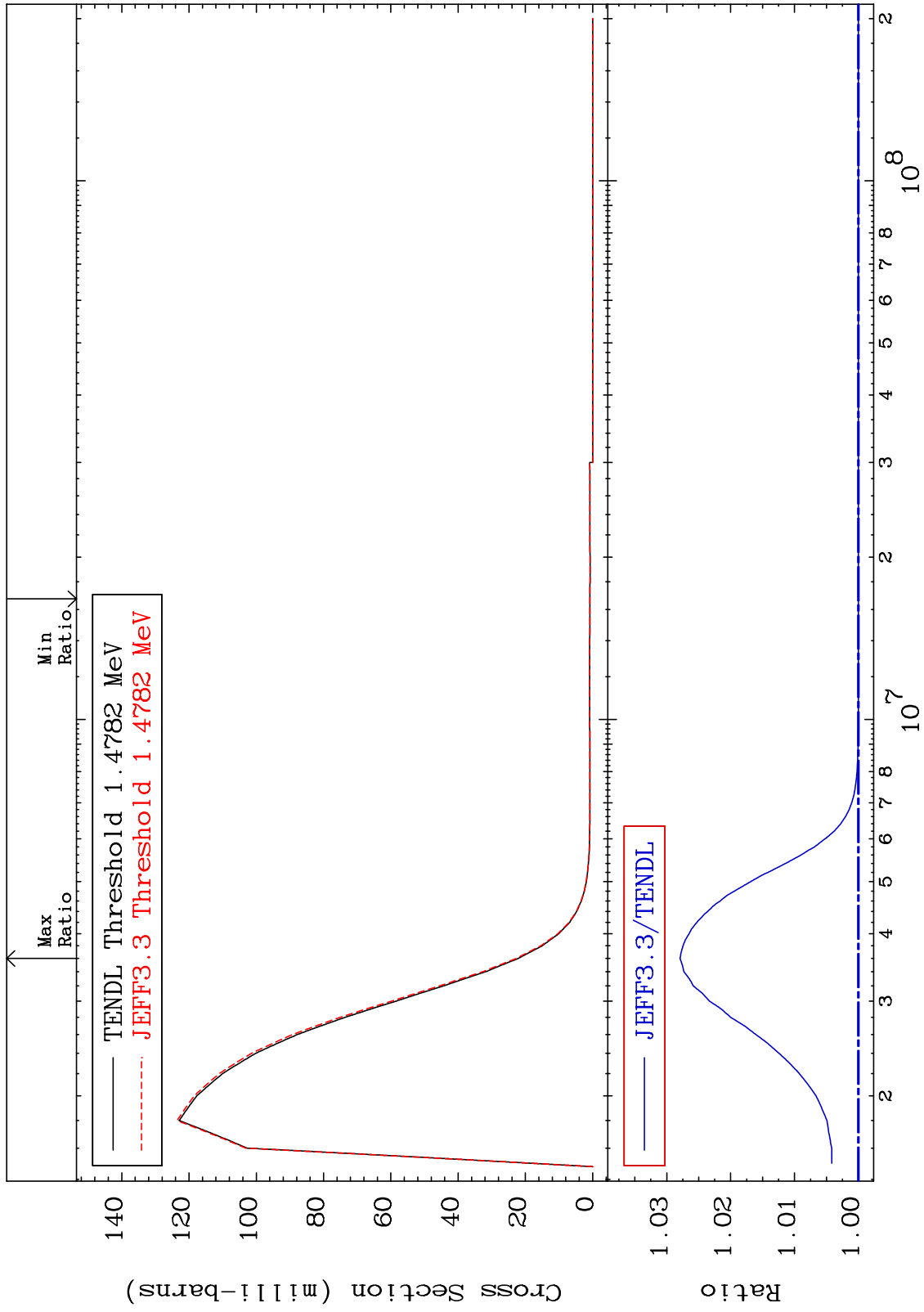
Incident Energy (eV)

74-W -180

MAT 7425

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

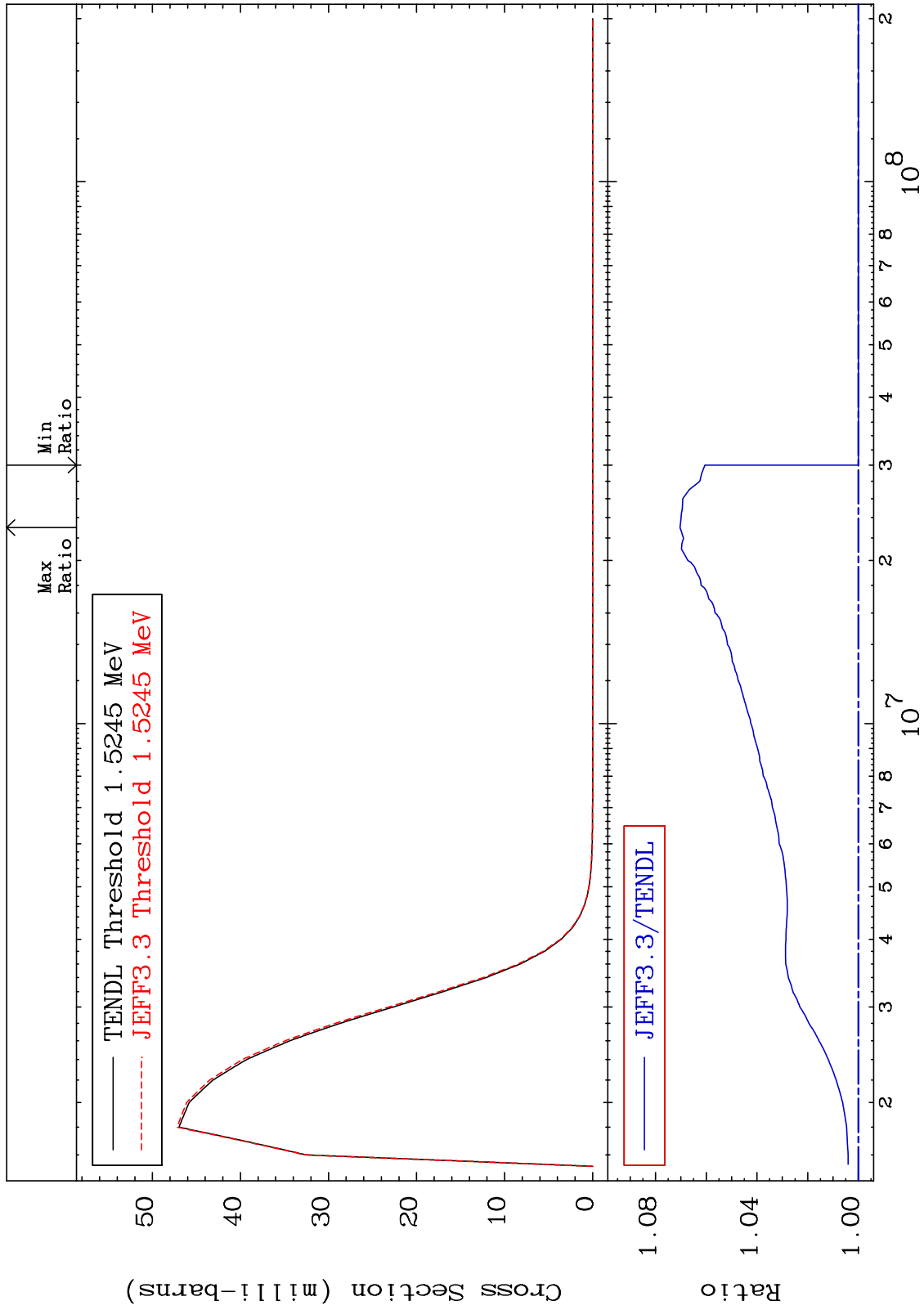
74-W -180
0.000 To 2.793 %



MAT 7425

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

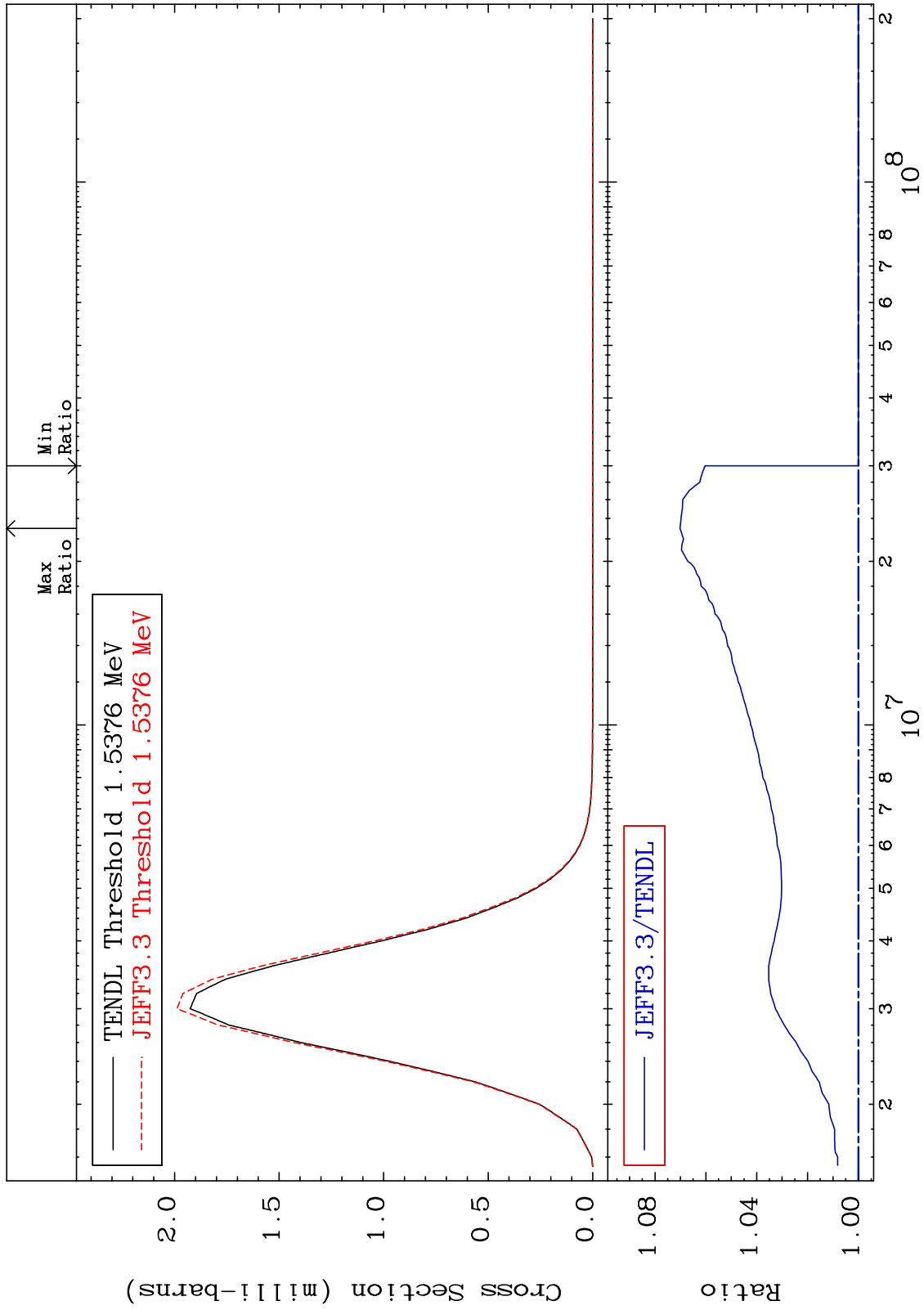
74-W -180
0.000 To 7.034 %



MAT 7425

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

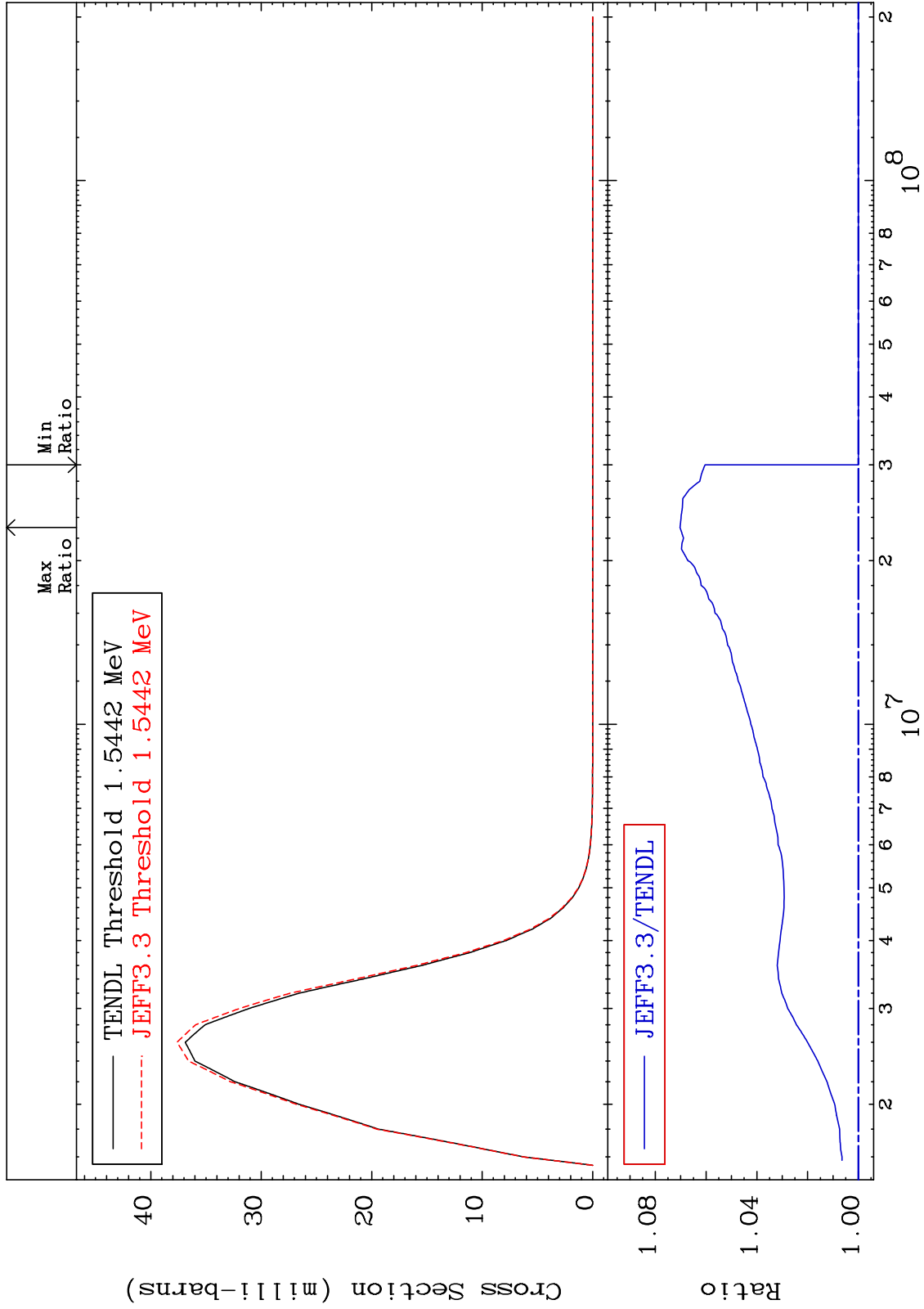
74-W -180
0.000 To 7.015 %



MAT 7425

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

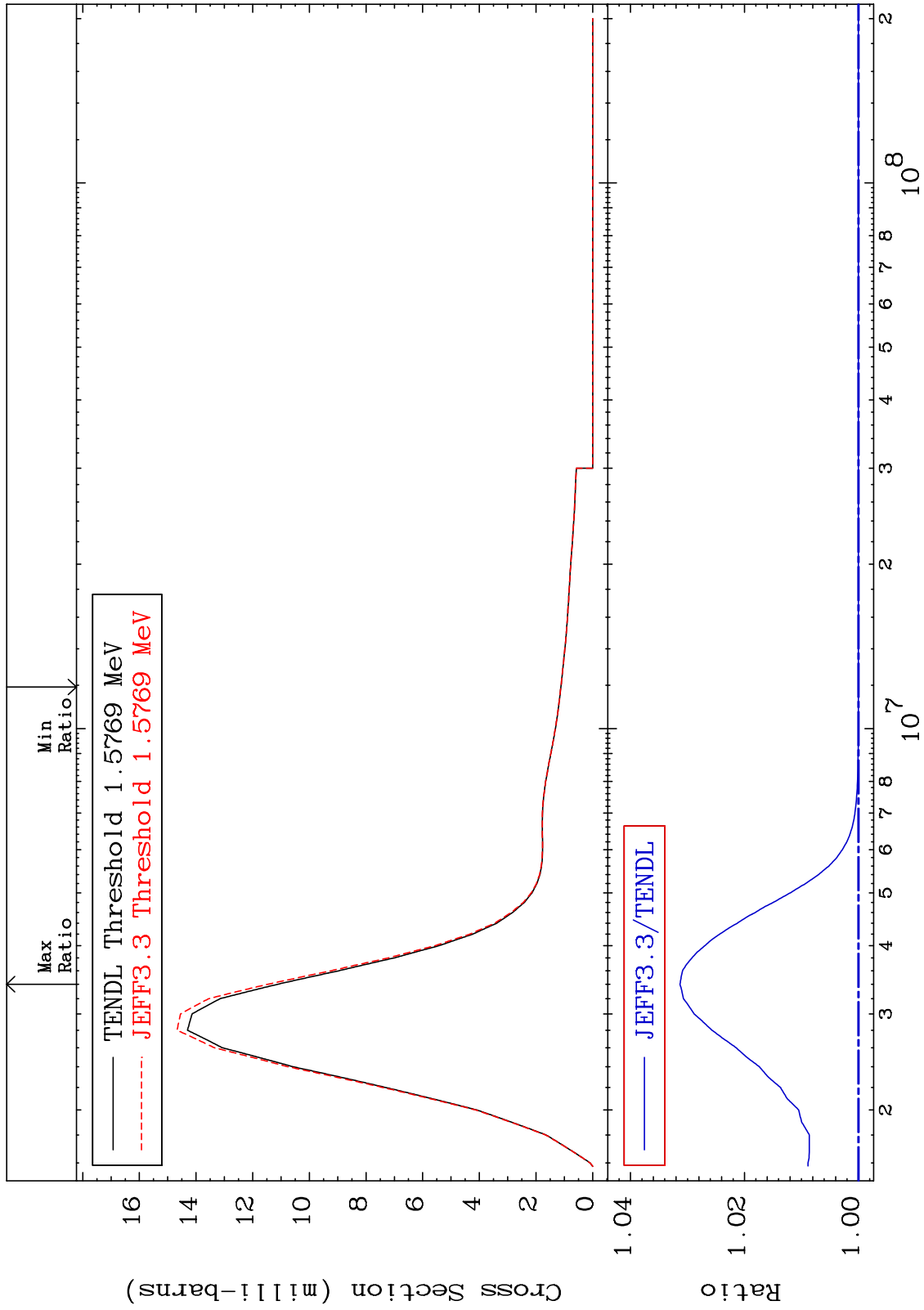
74-W -180
0.000 To 7.026 %



MAT 7425

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

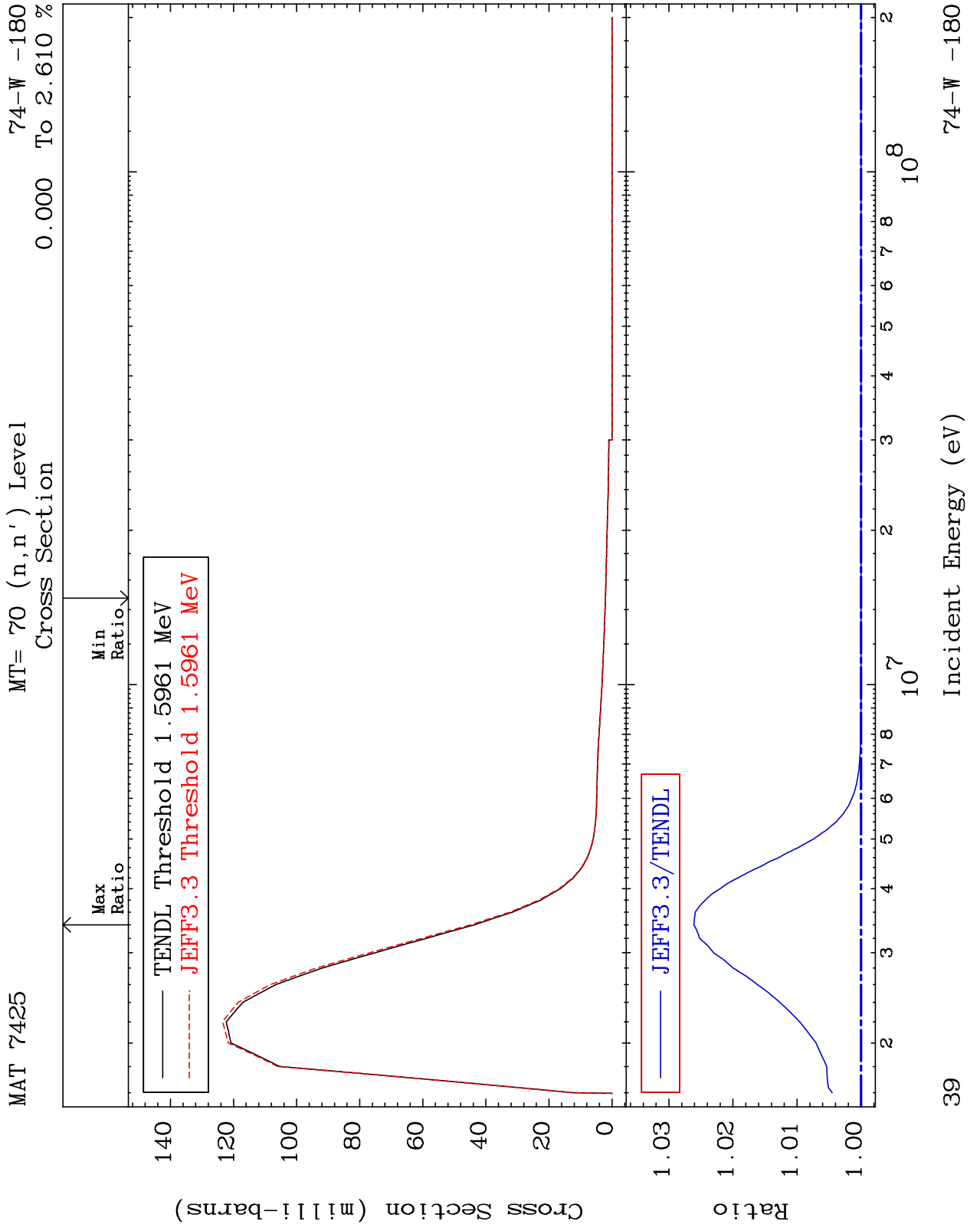
74-W -180
0.000 To 3.131 %

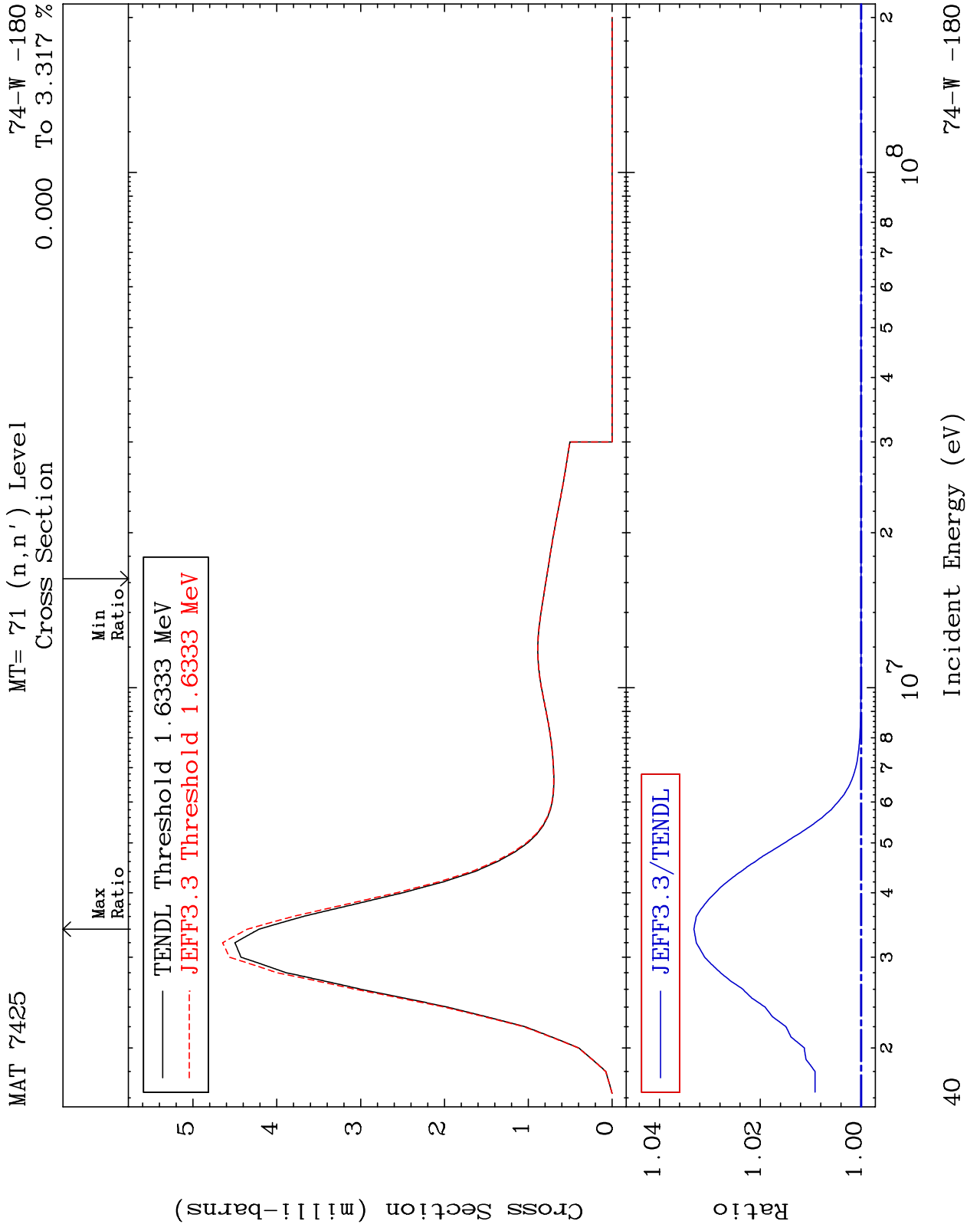


38

Incident Energy (eV)

74-W -180

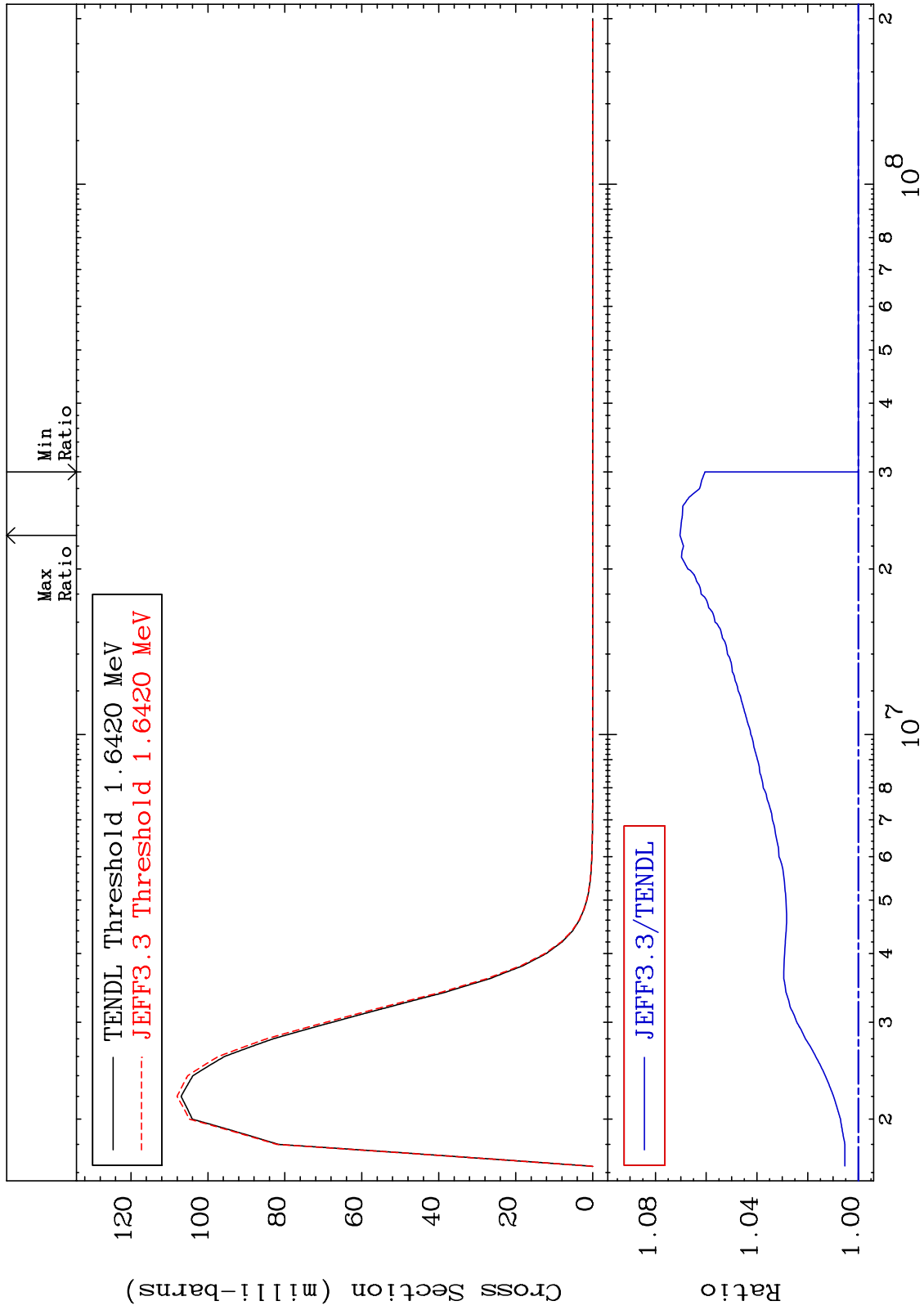




MAT 7425

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

74-W -180
To 7.032 %
0.000



41

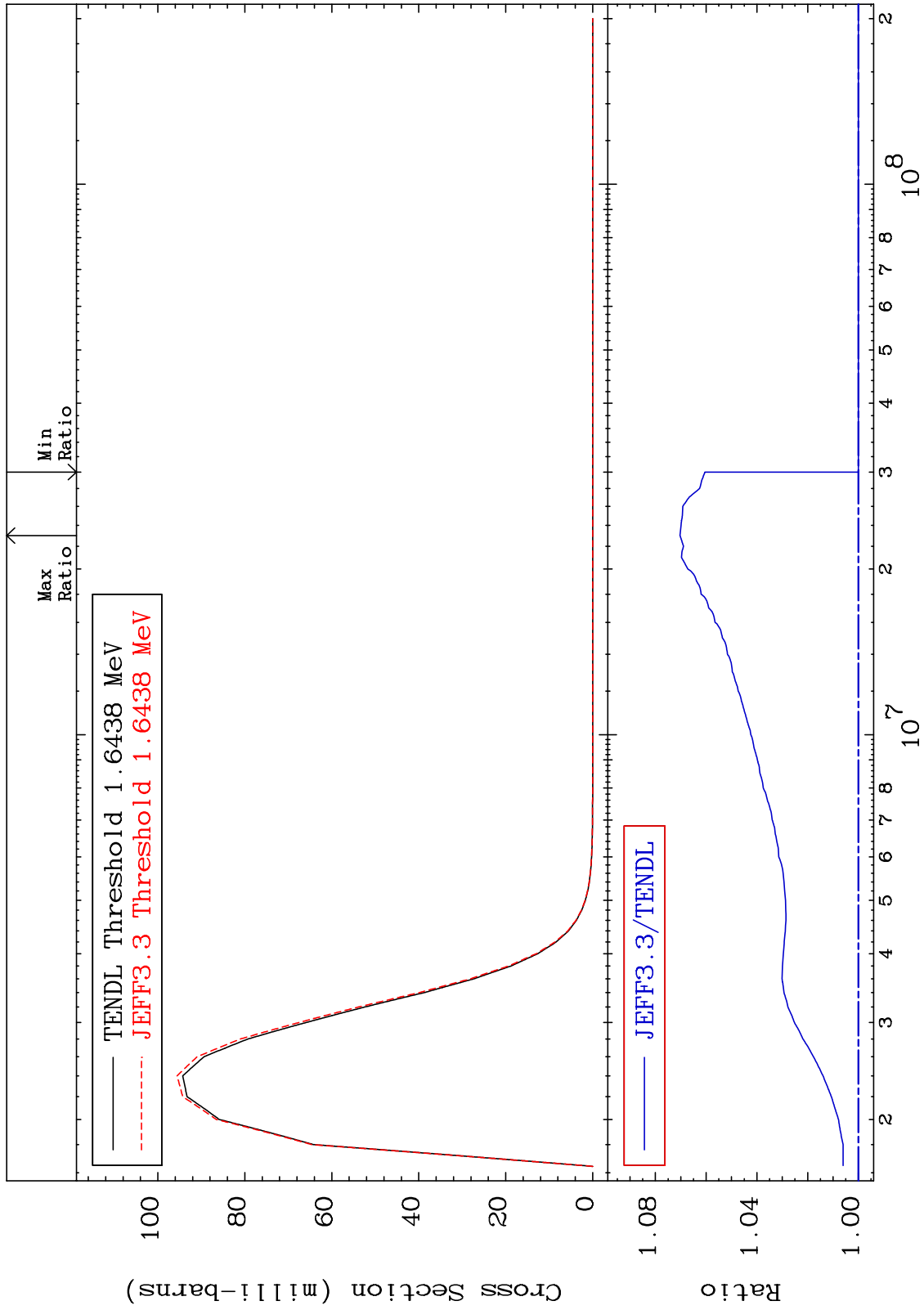
Incident Energy (eV)

74-W -180

MAT 7425

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

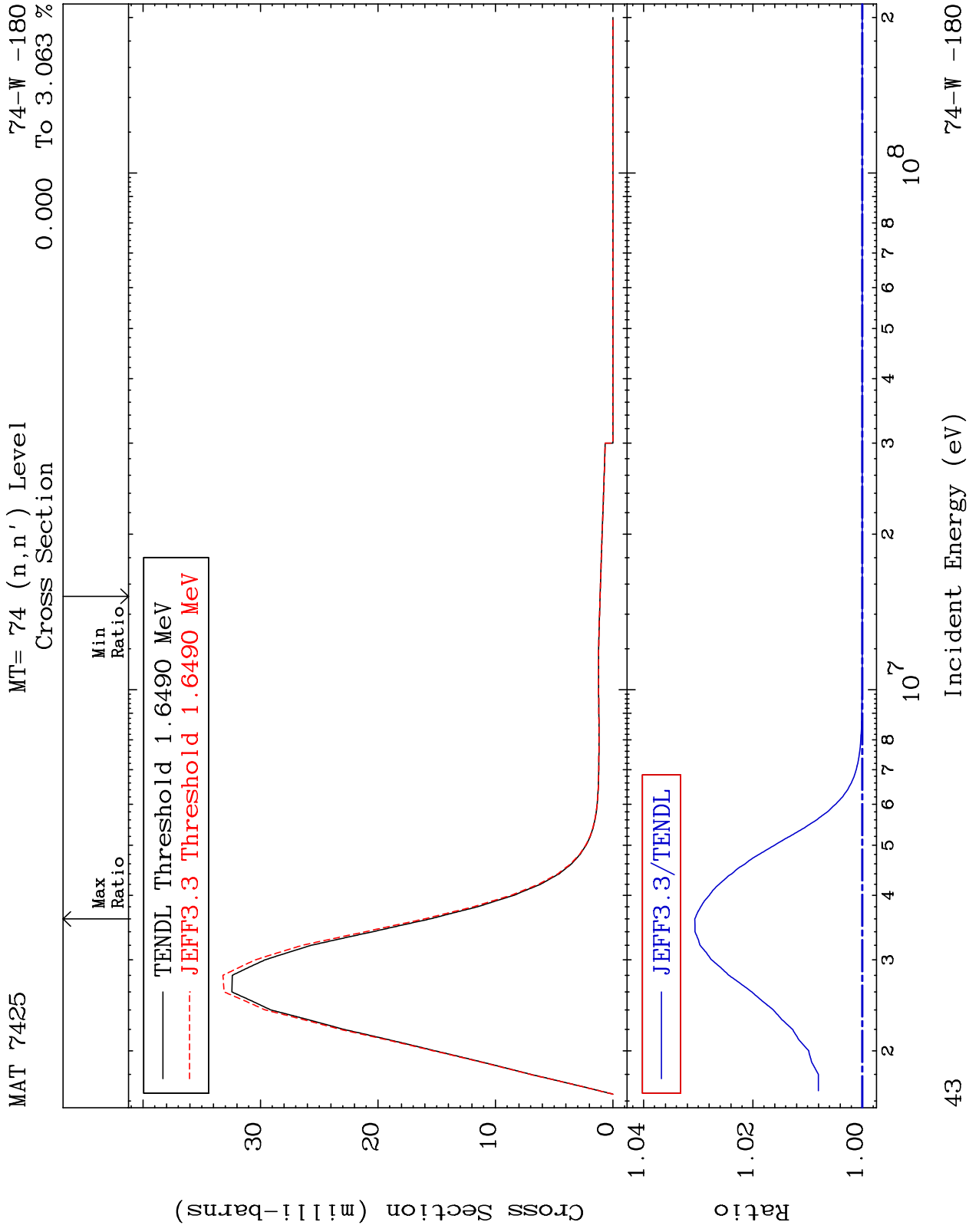
74-W -180
0.000 To 7.030 %

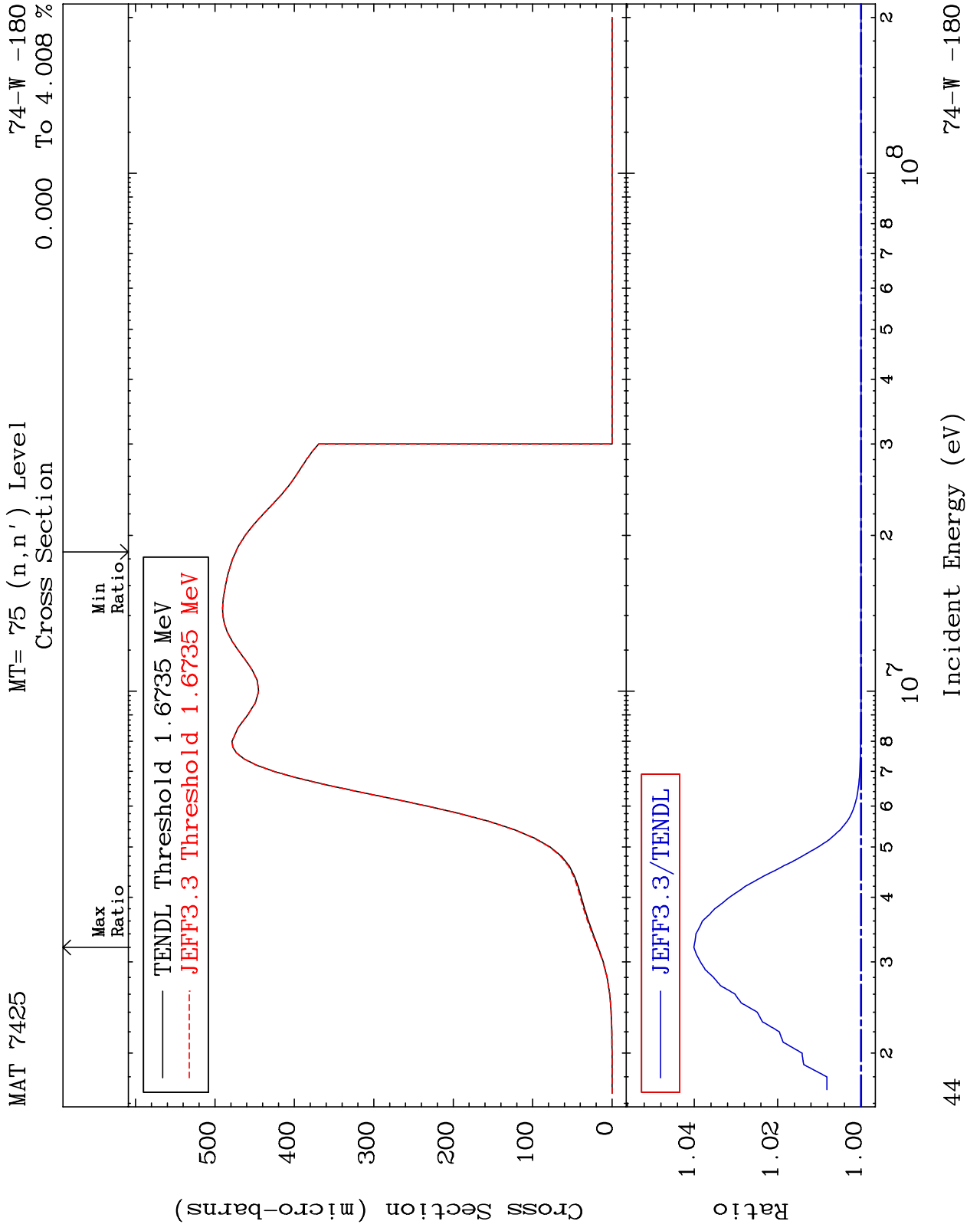


42

Incident Energy (eV)

74-W -180

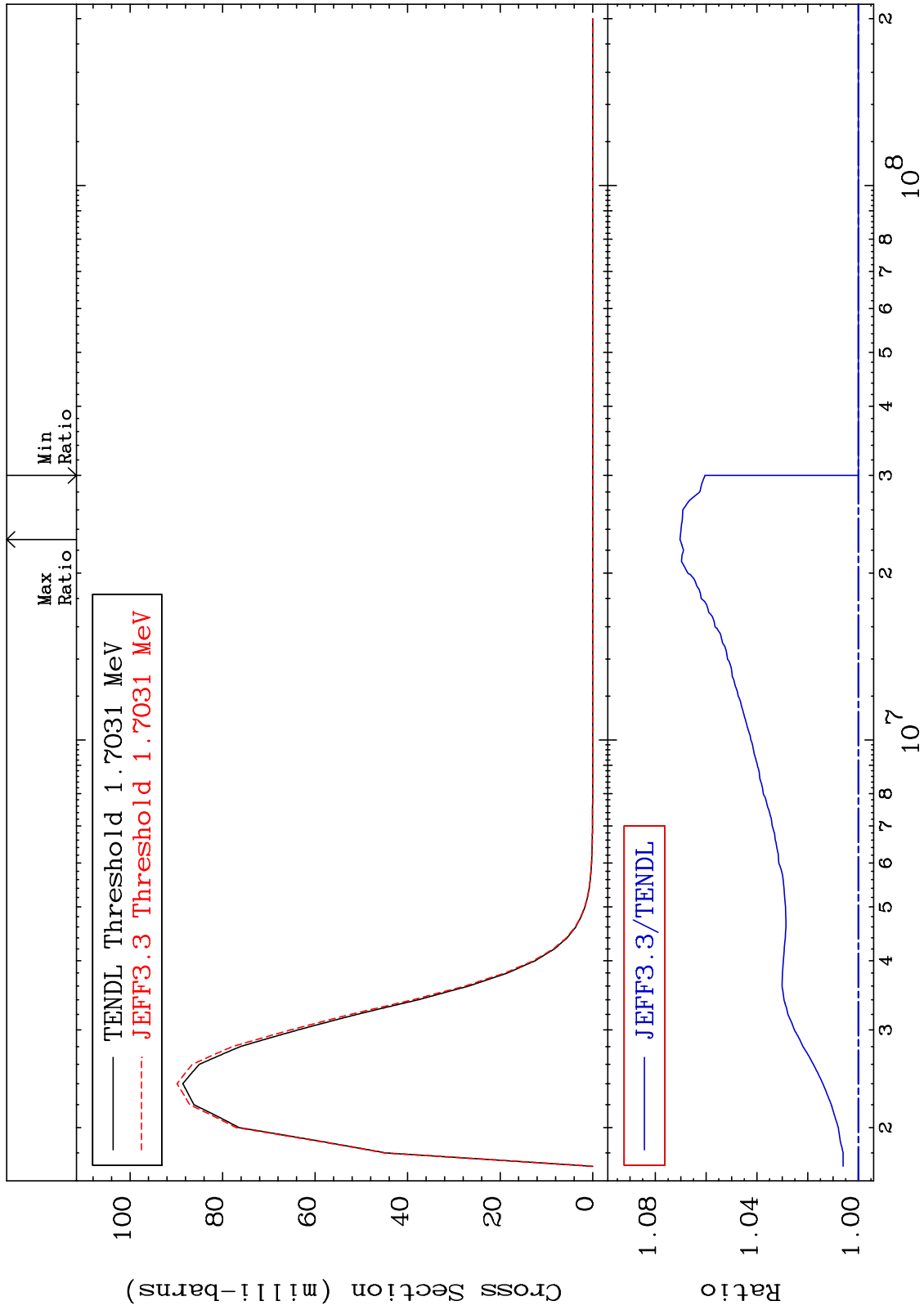




MAT 7425

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

74-W -180
To 7.030 %
0.000



45

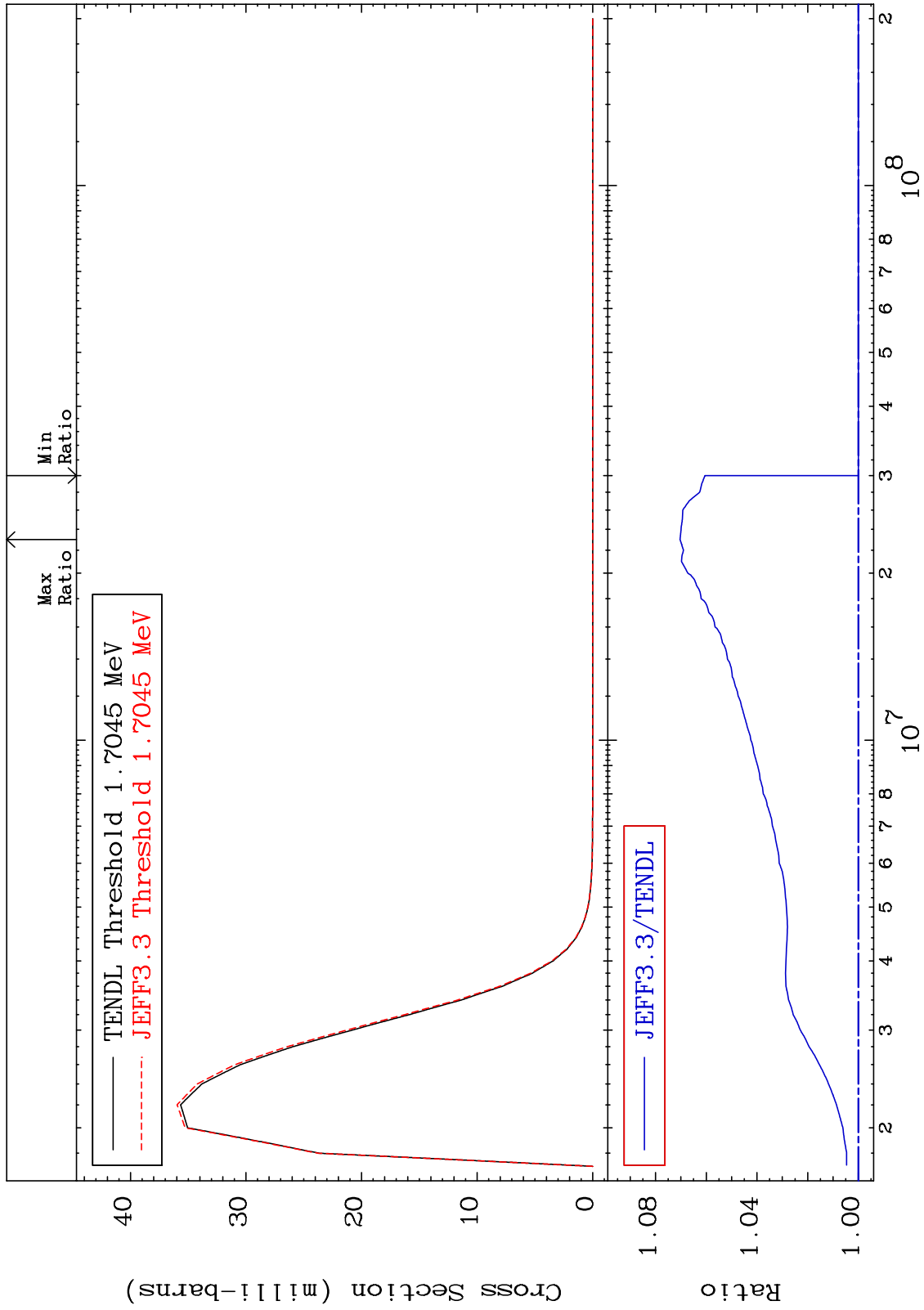
Incident Energy (eV)

74-W -180

MAT 7425

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

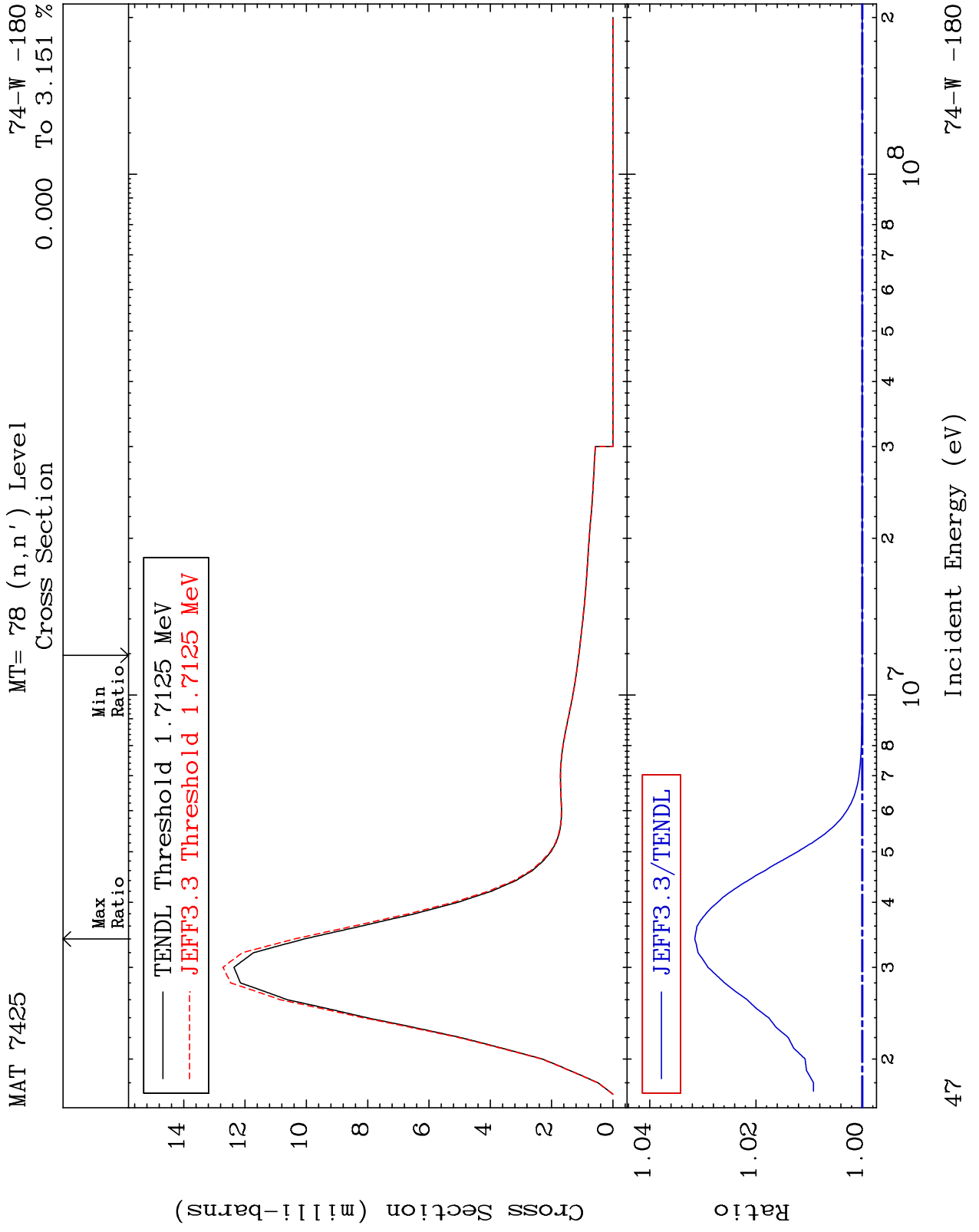
74-W -180
To 7.034 %
0.000



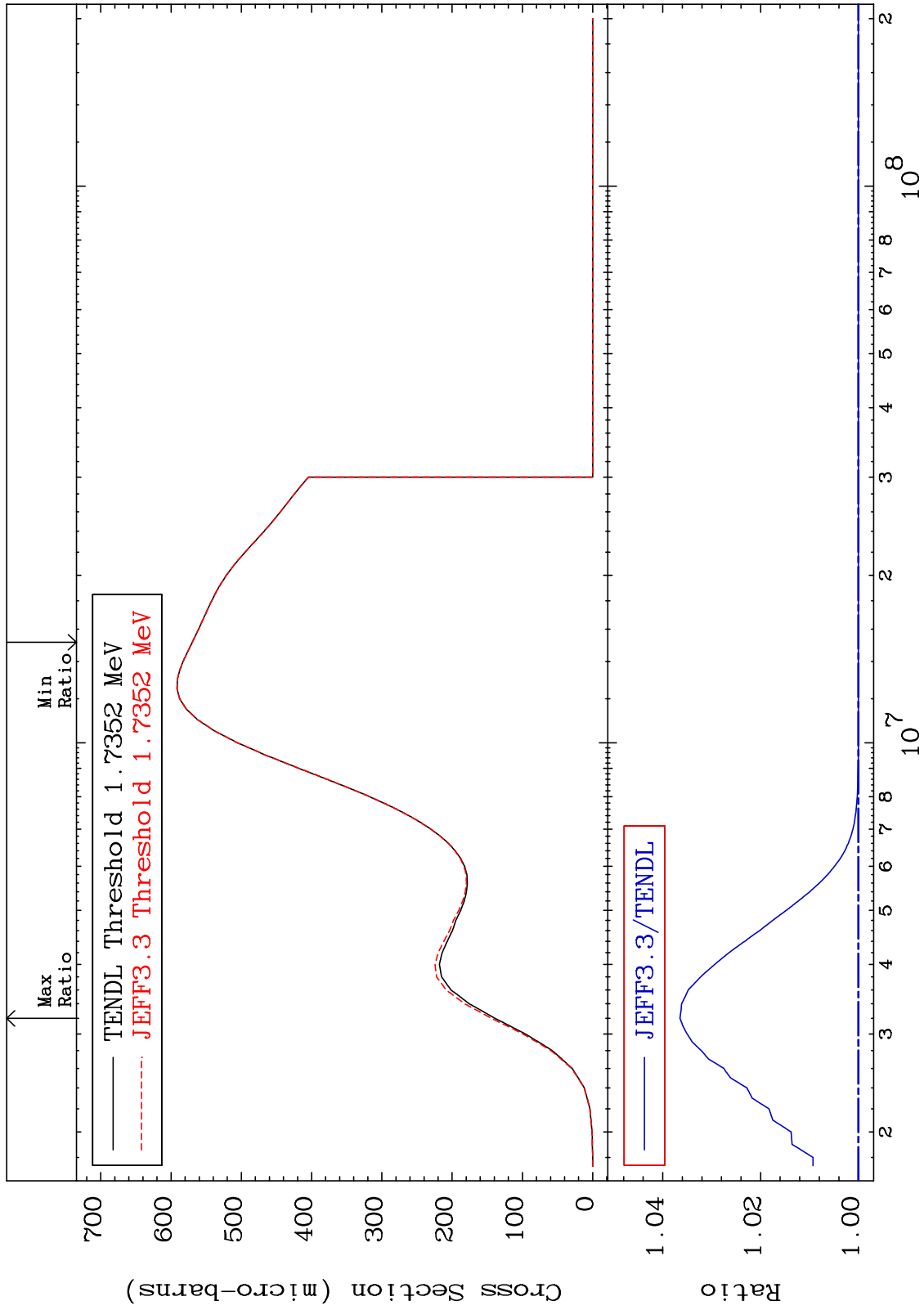
46

Incident Energy (eV)

74-W -180



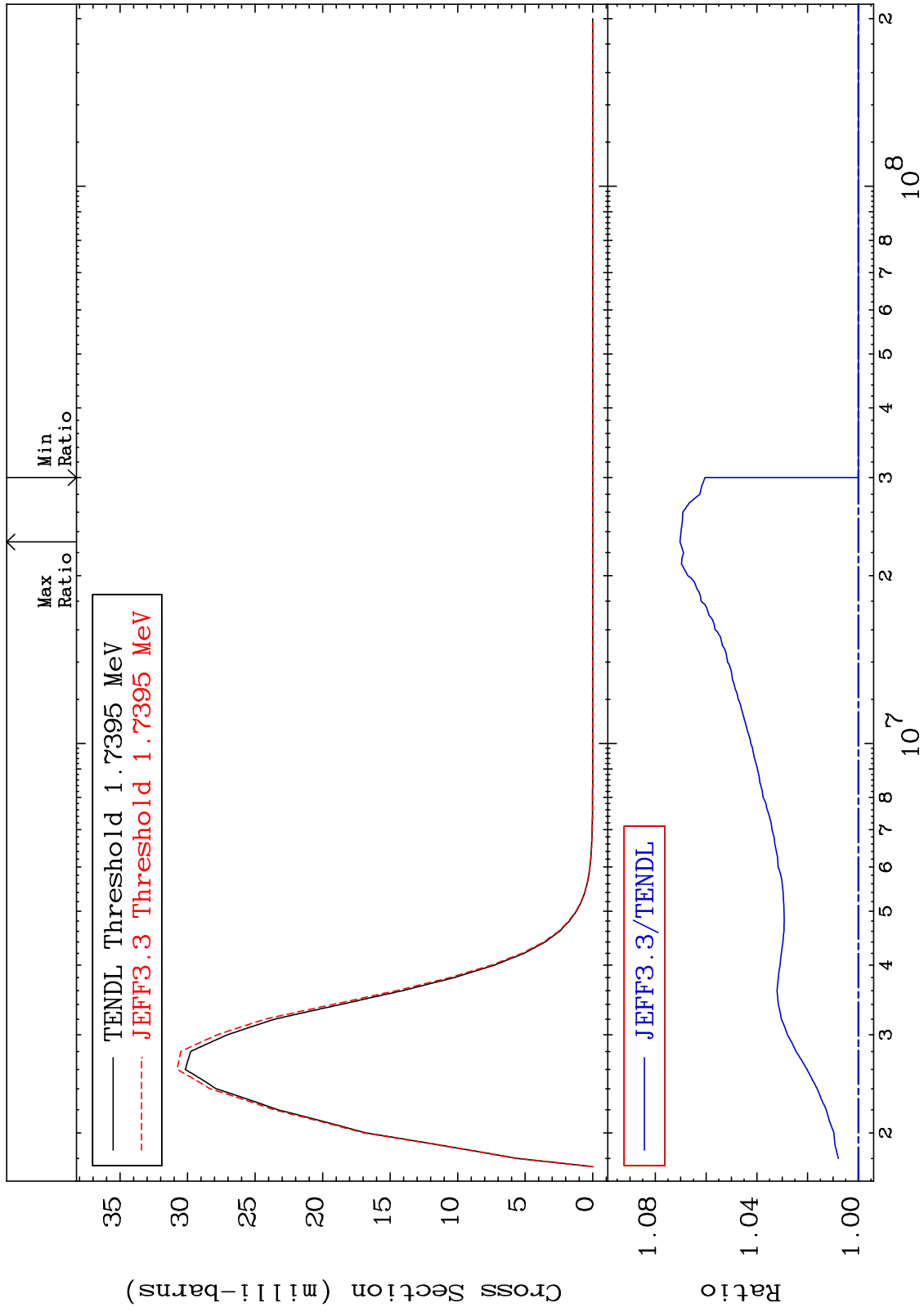
MAT 7425 MT= 79 (n,n') Level Cross Section 74-W -180 To 3.647 %
 0.000



MAT 7425

MT= 80 (n,n') Level
Cross Section

74-W -180
0.000 To 7.026 %



49

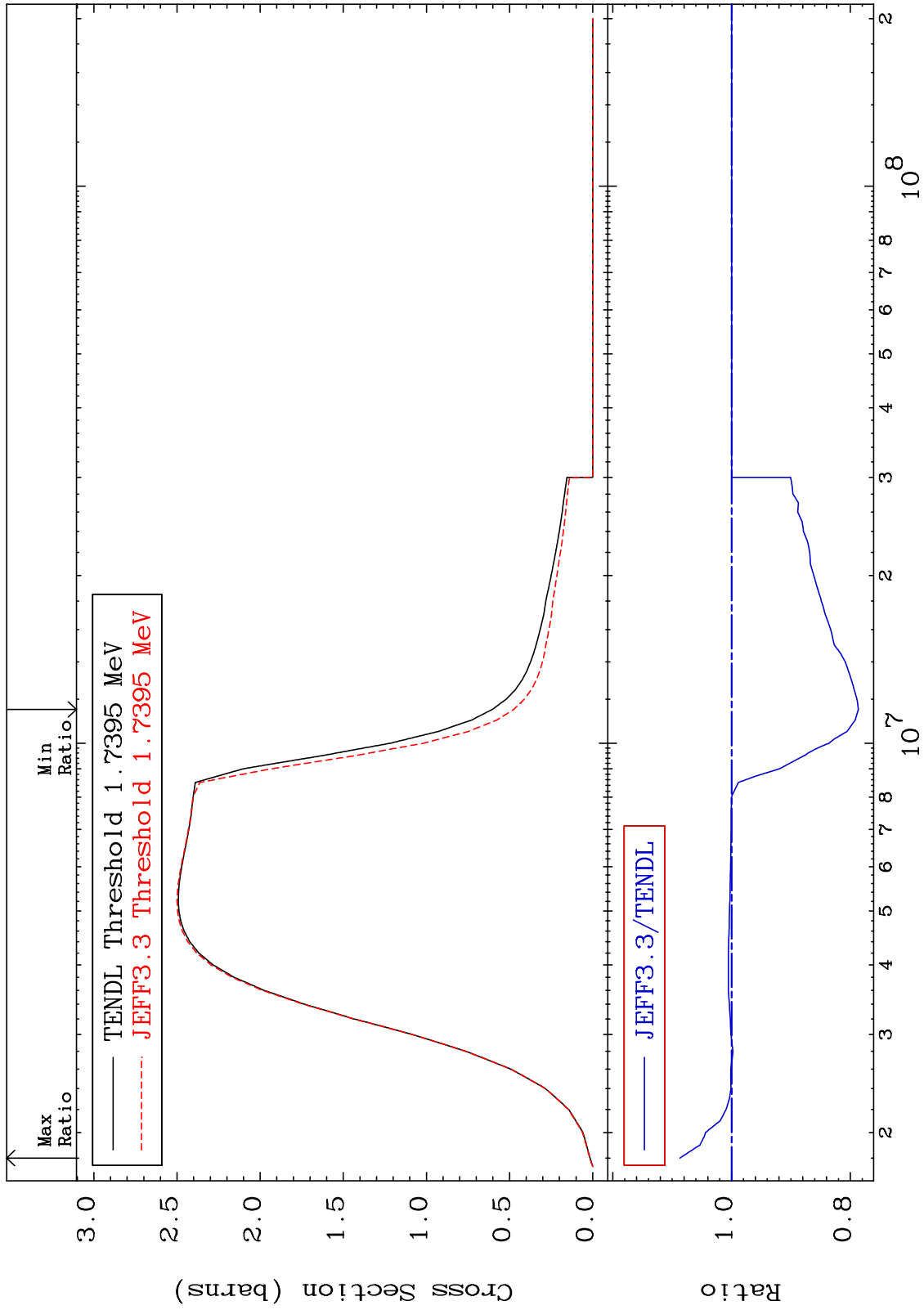
Incident Energy (eV)

74-W -180

MAT 7425

(n,n') Continuum
Cross Section

74-W -180
-21.36 To 8.683 %



50

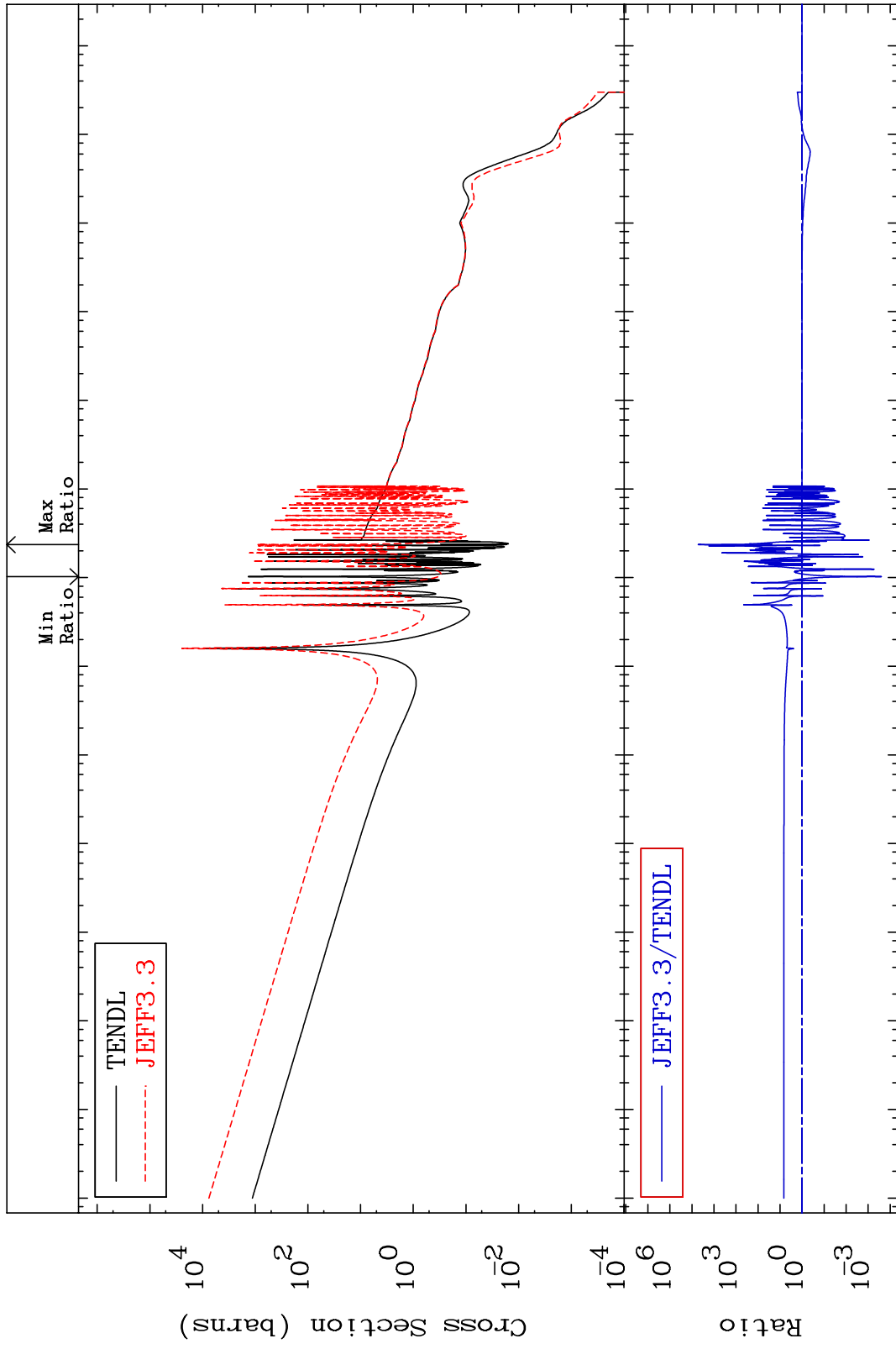
Incident Energy (eV)

74-W -180

MAT 7425

(n, γ)
Cross Section

74-W -180
-99.98 To 9999. %



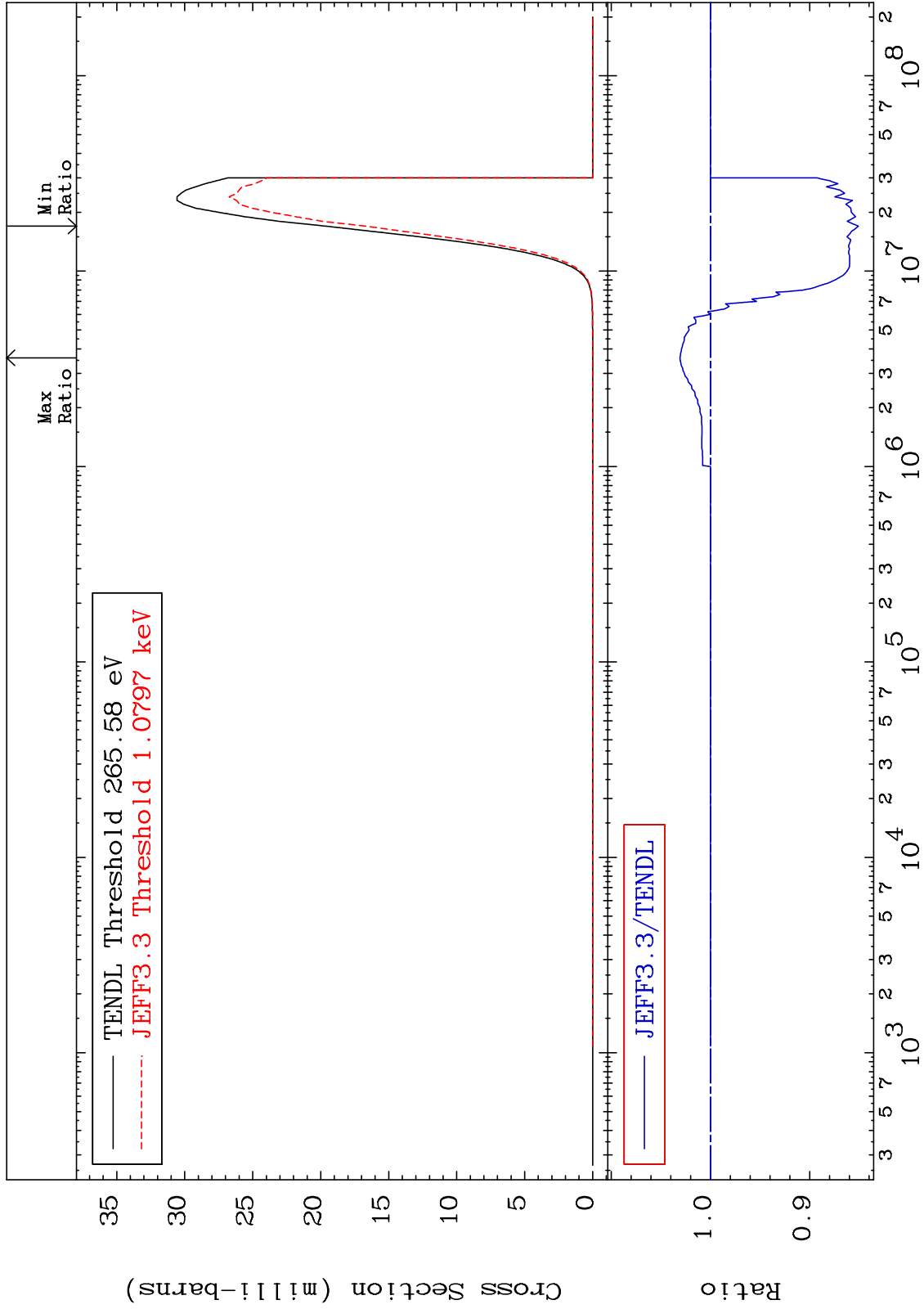
MAT 7425

(n,p)

74-W -180

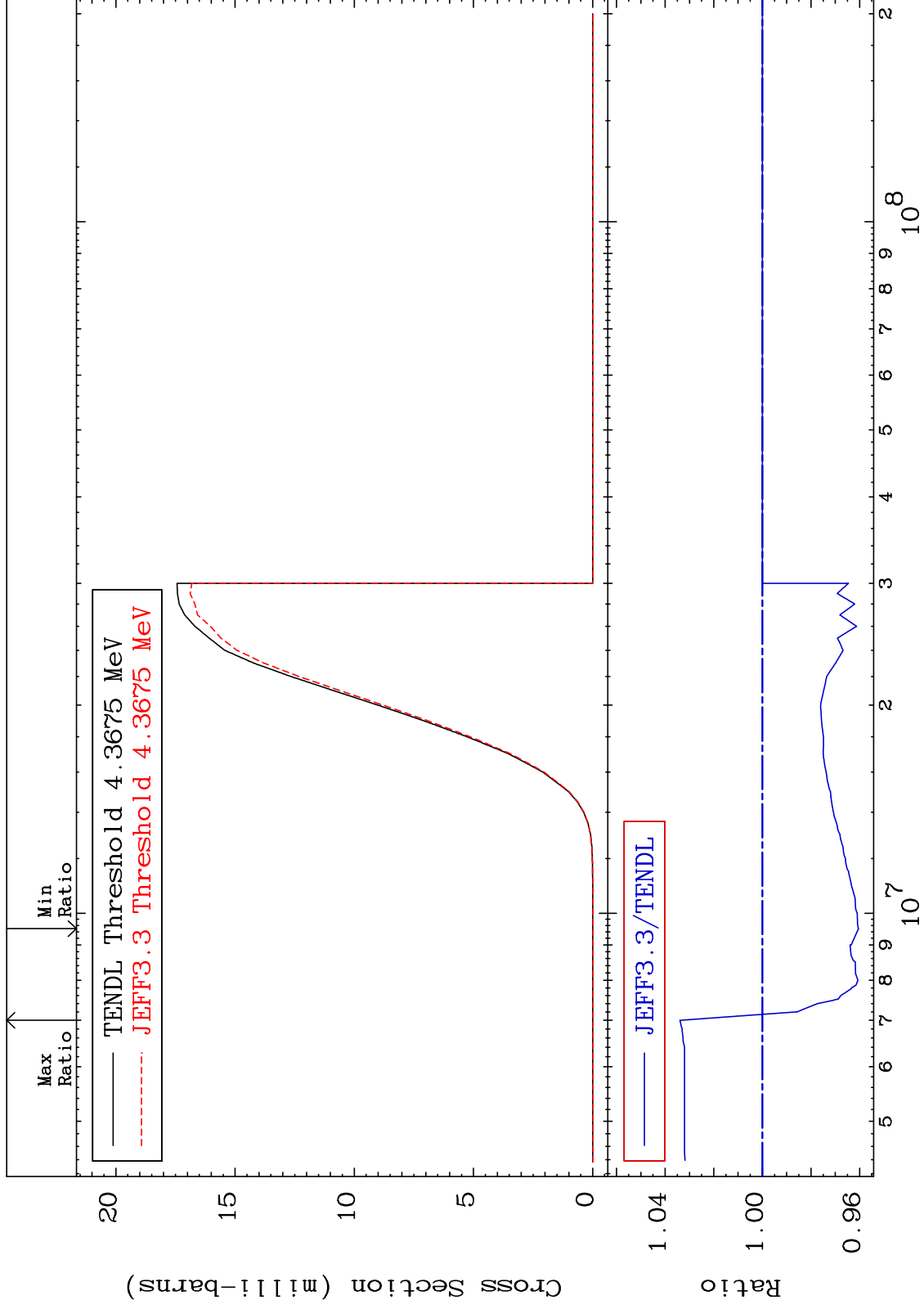
Cross Section

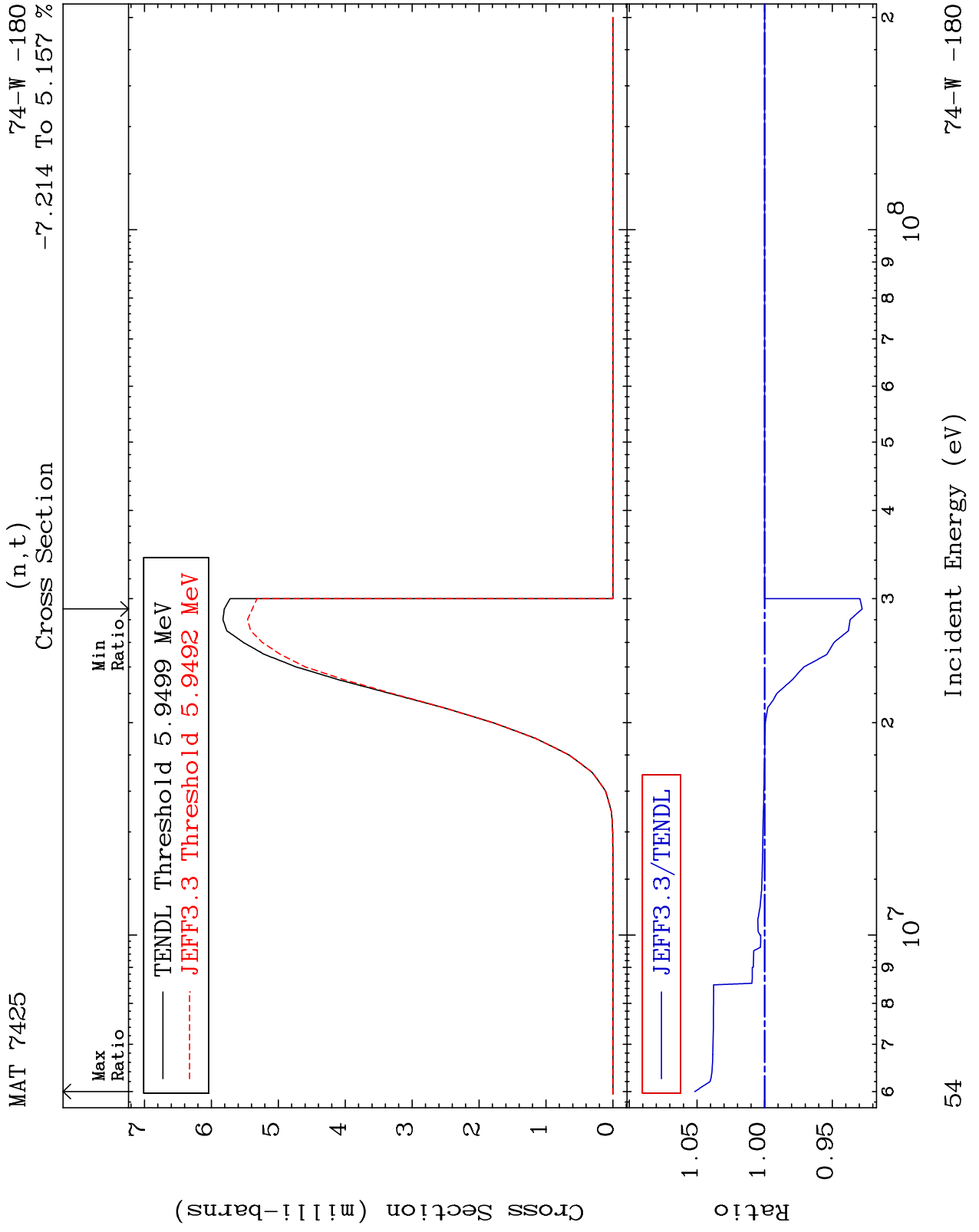
-14.92 To 3.074 %



Cross Section

-3.951 To 3.388 %





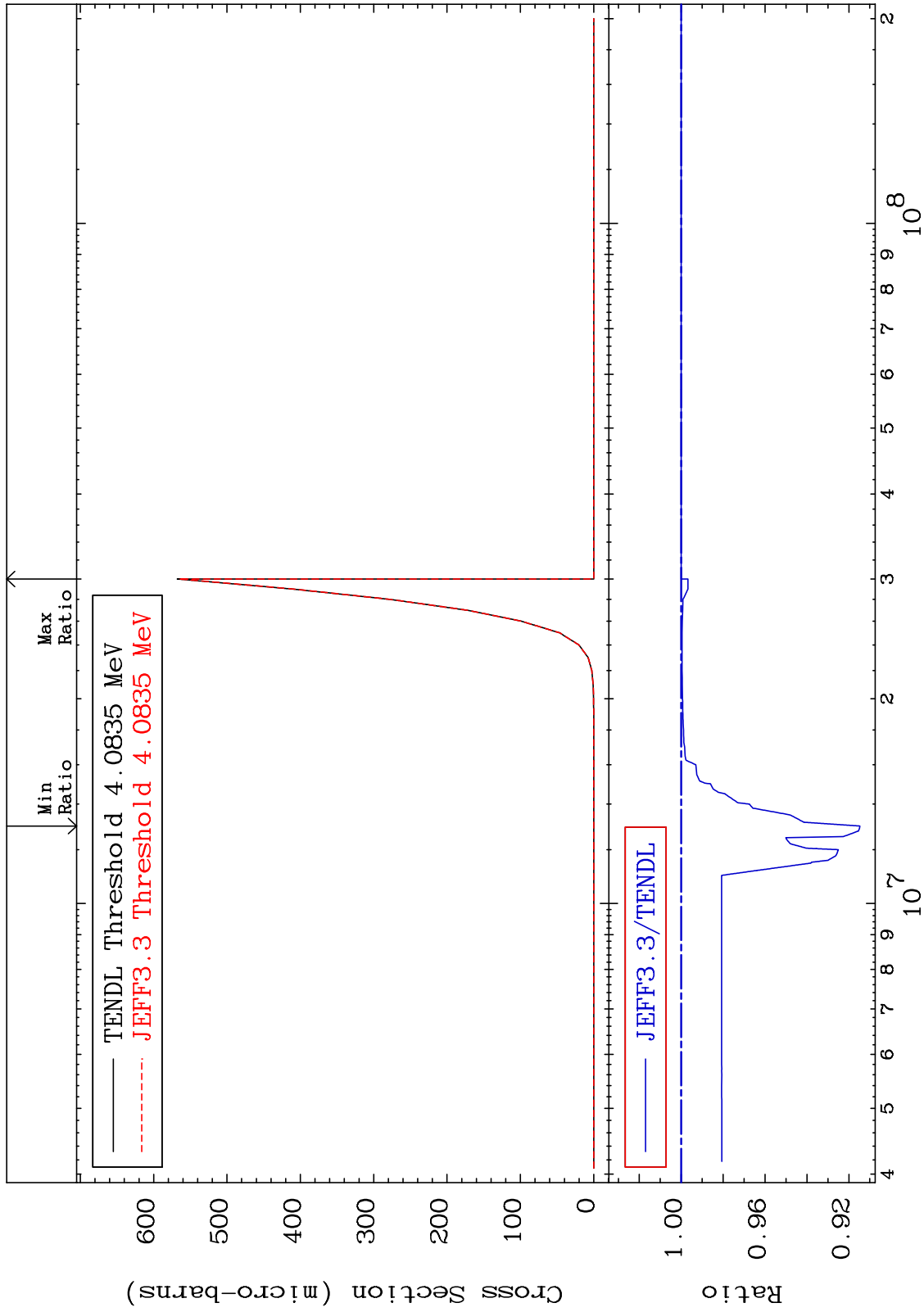
MAT 7425

(n, He-3)

74-W -180

Cross Section

-8.528 To 0.000 %



Incident Energy (eV)

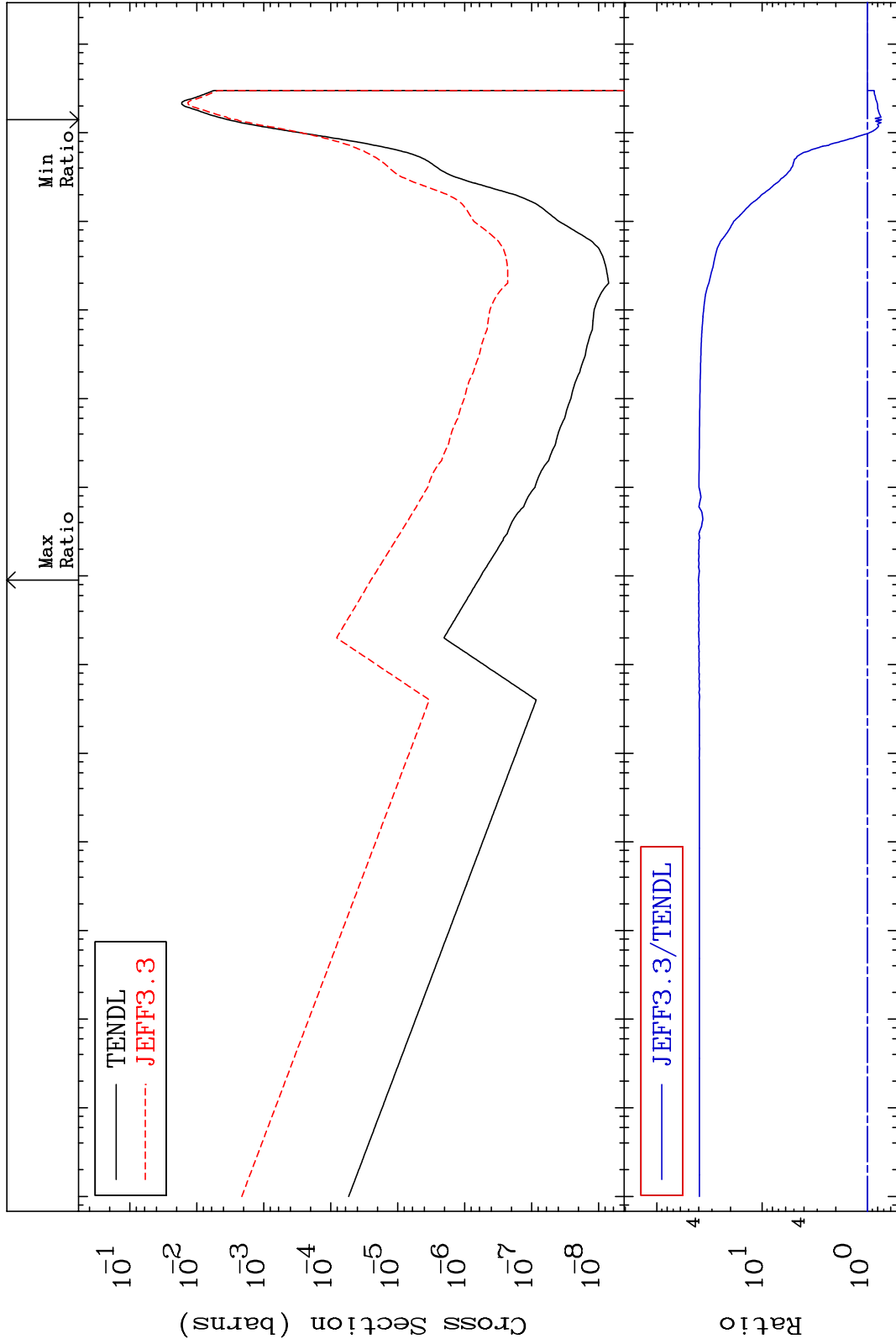
74-W -180

55

MAT 7425

(n, α)
Cross Section

74-W -180
-26.57 To 3941. %



Ratio

Incident Energy (eV)

74-W -180

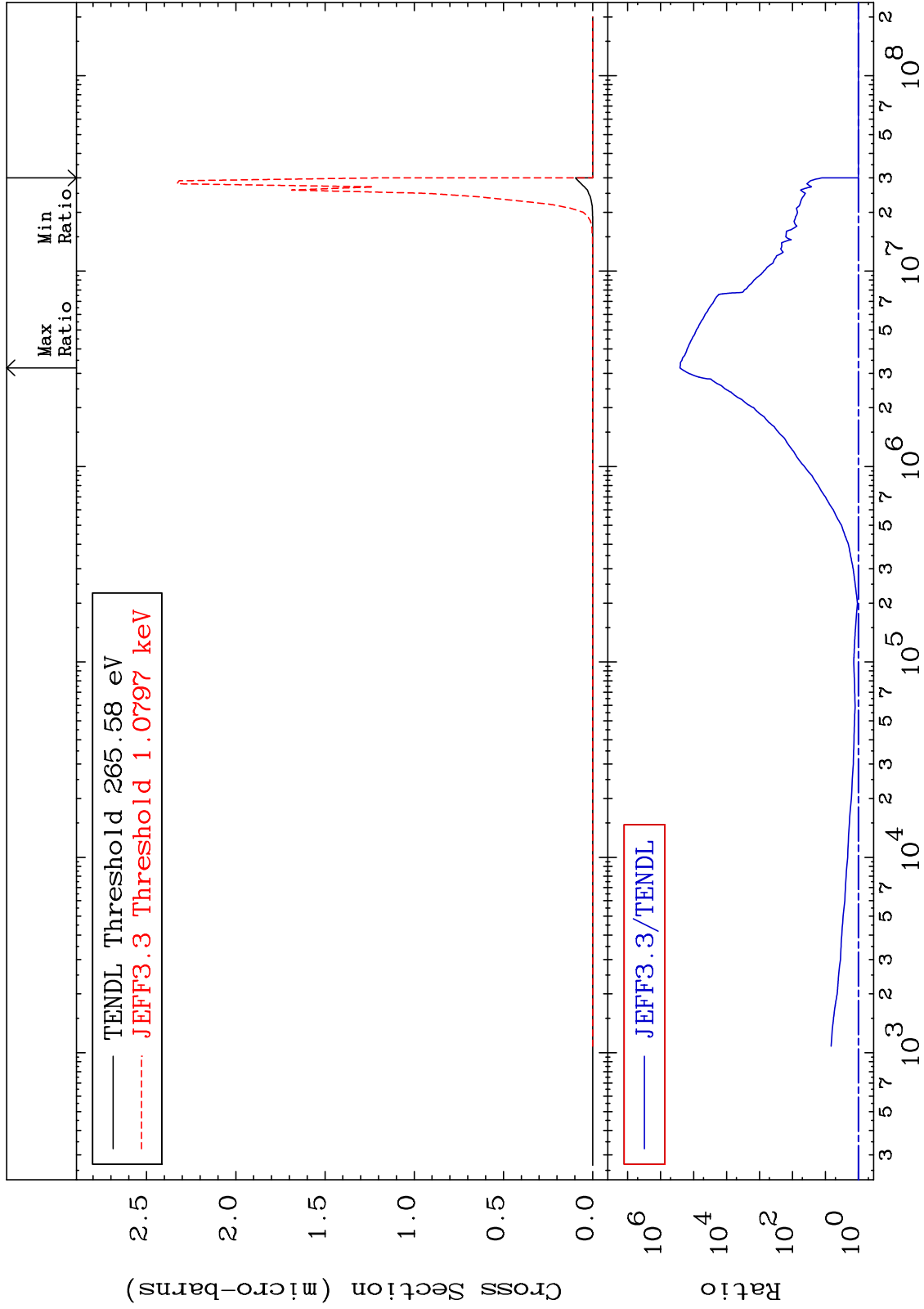
MAT 7425

(n, 2α)

74-W -180

Cross Section

0.000 To 9999. %



57

Incident Energy (eV)

74-W -180

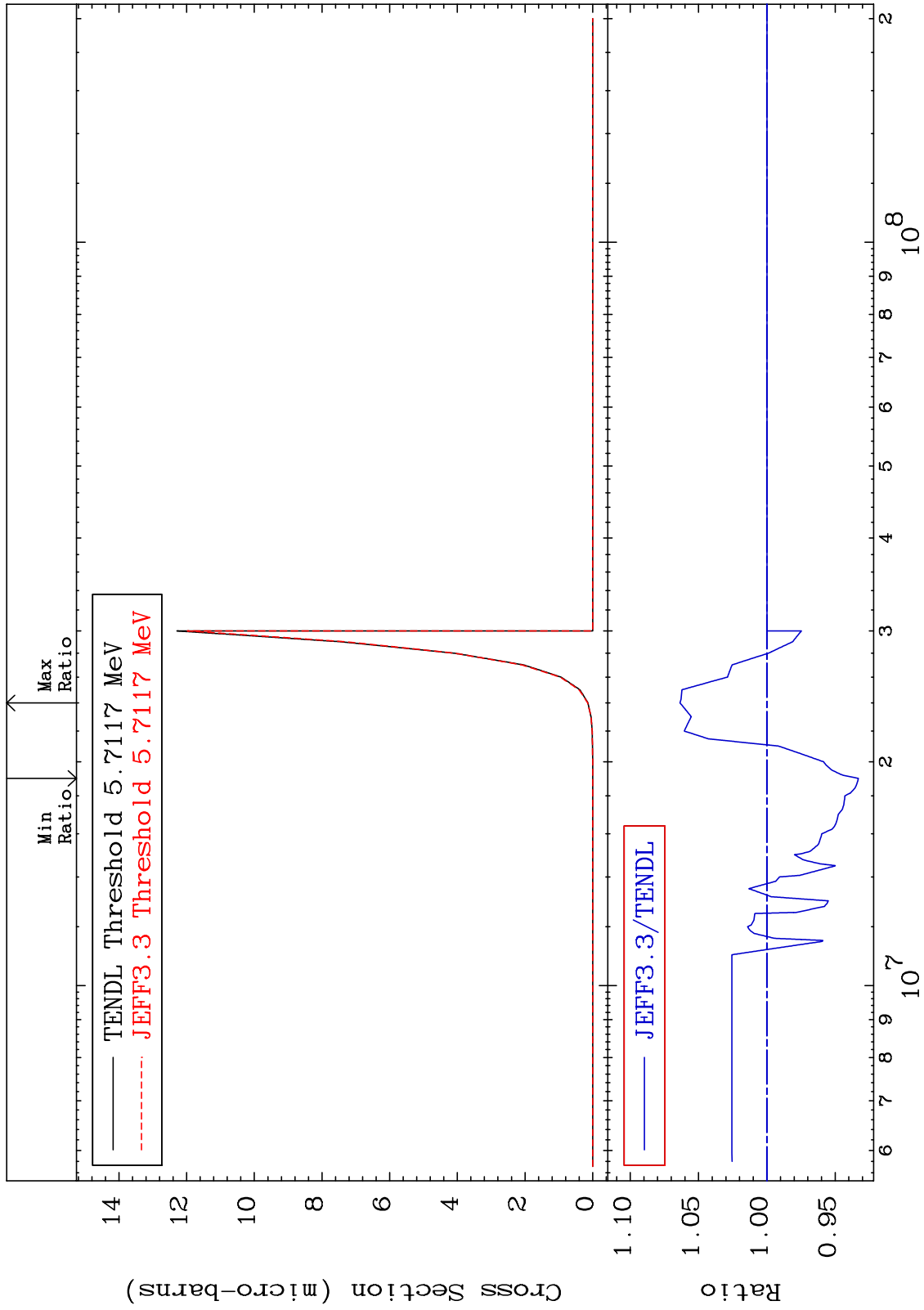
MAT 7425

(n,2p)

74-W -180

-6.701 To 6.357 %

Cross Section



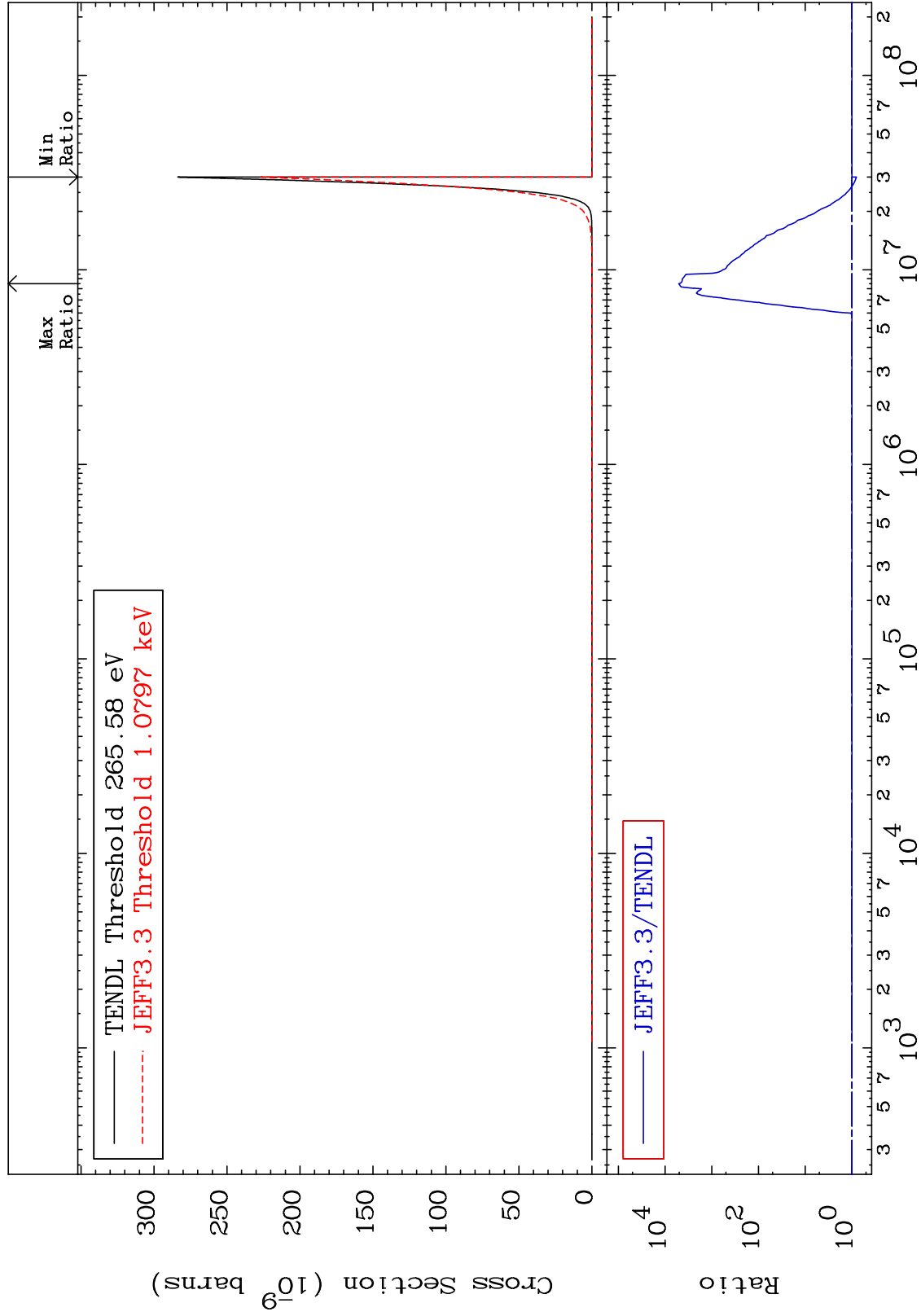
MAT 7425

(n,p) α

Cross Section

74-W -180

-20.04 To 9999. %



59

Incident Energy (eV)

74-W -180

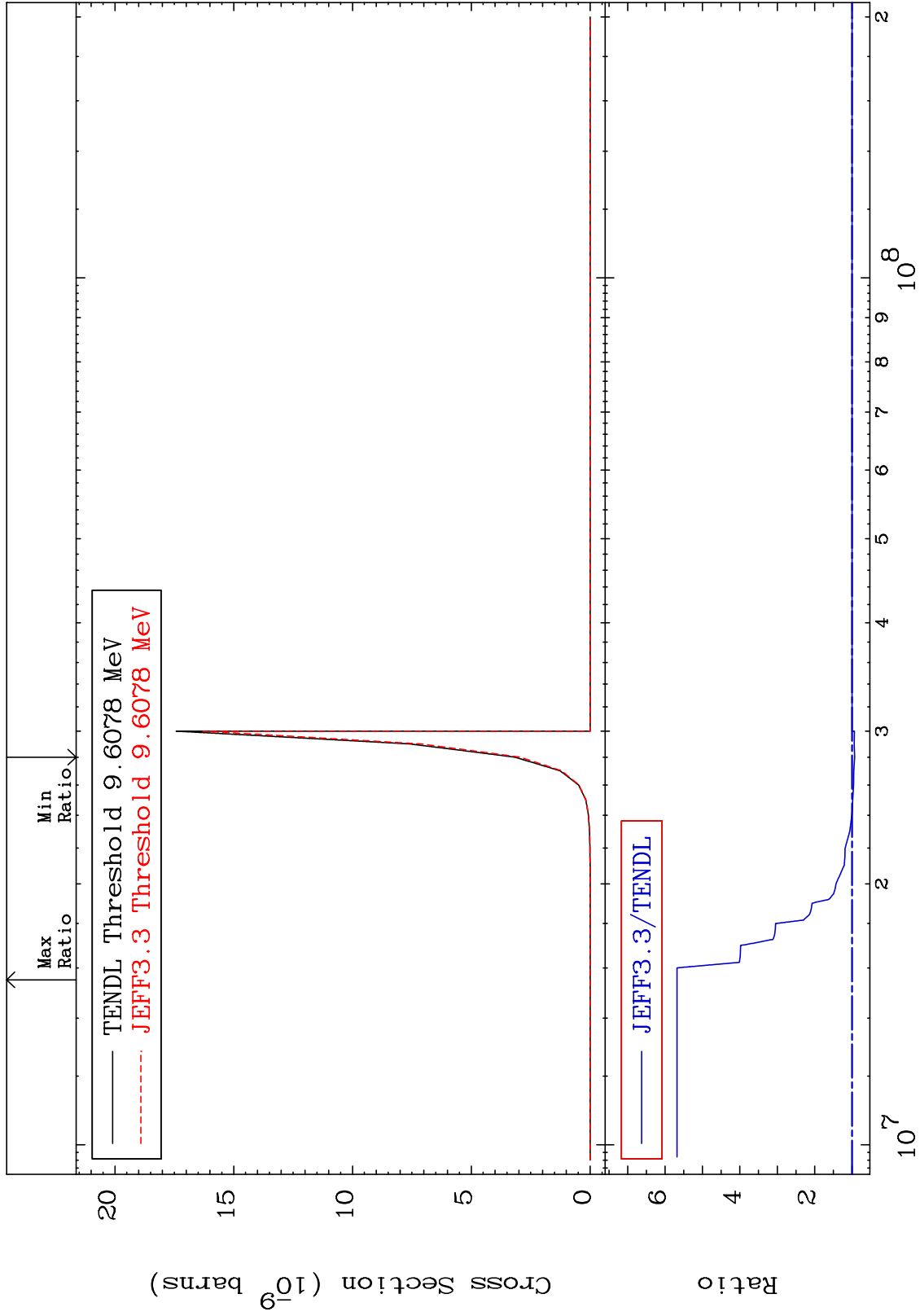
MAT 7425

(n,p) d

74-W -180

Cross Section

-7.252 To 468.0 %



Incident Energy (eV)

74-W -180

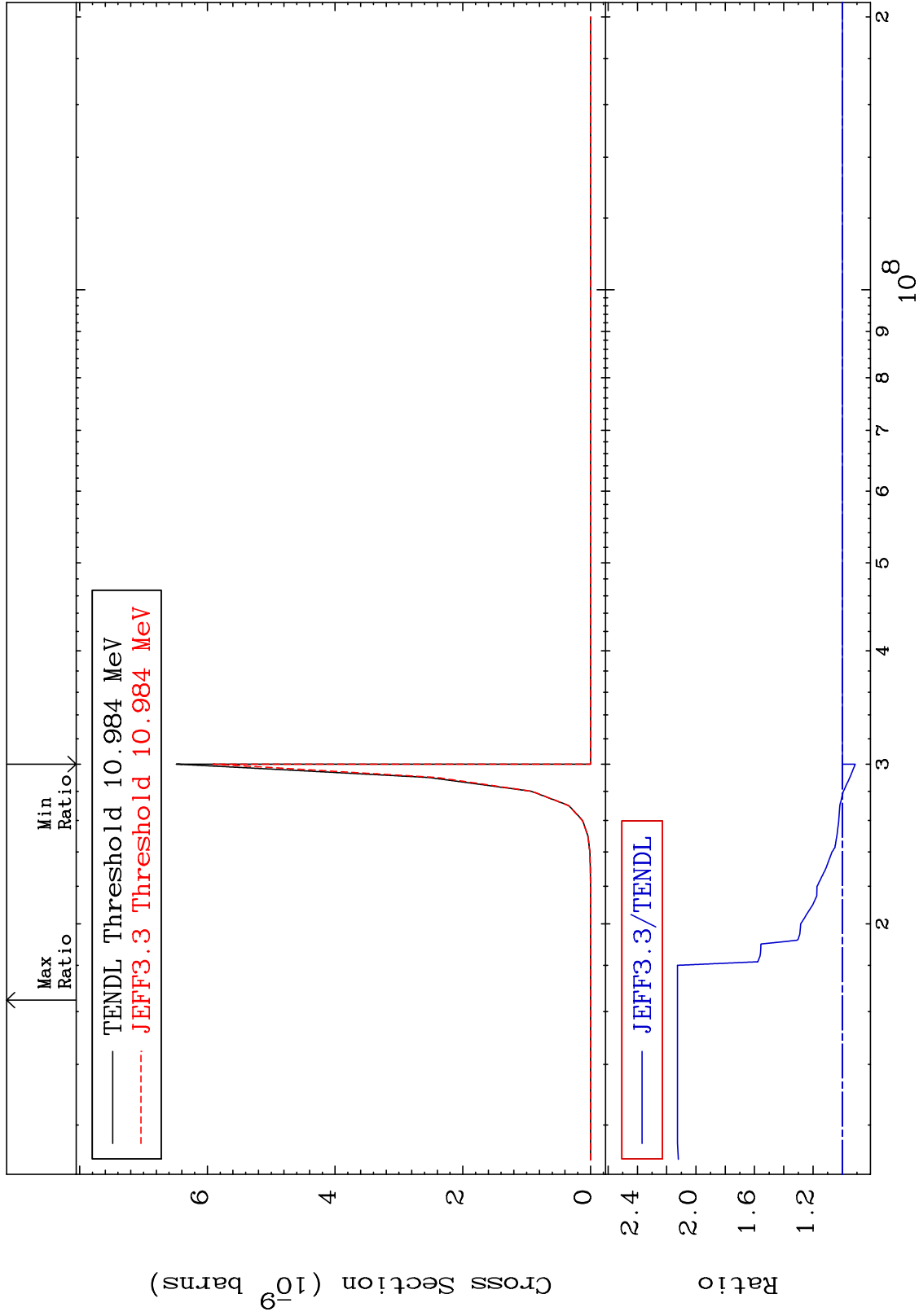
MAT 7425

(n,p) t

74-W -180

Cross Section

-8.858 To 112.6 %



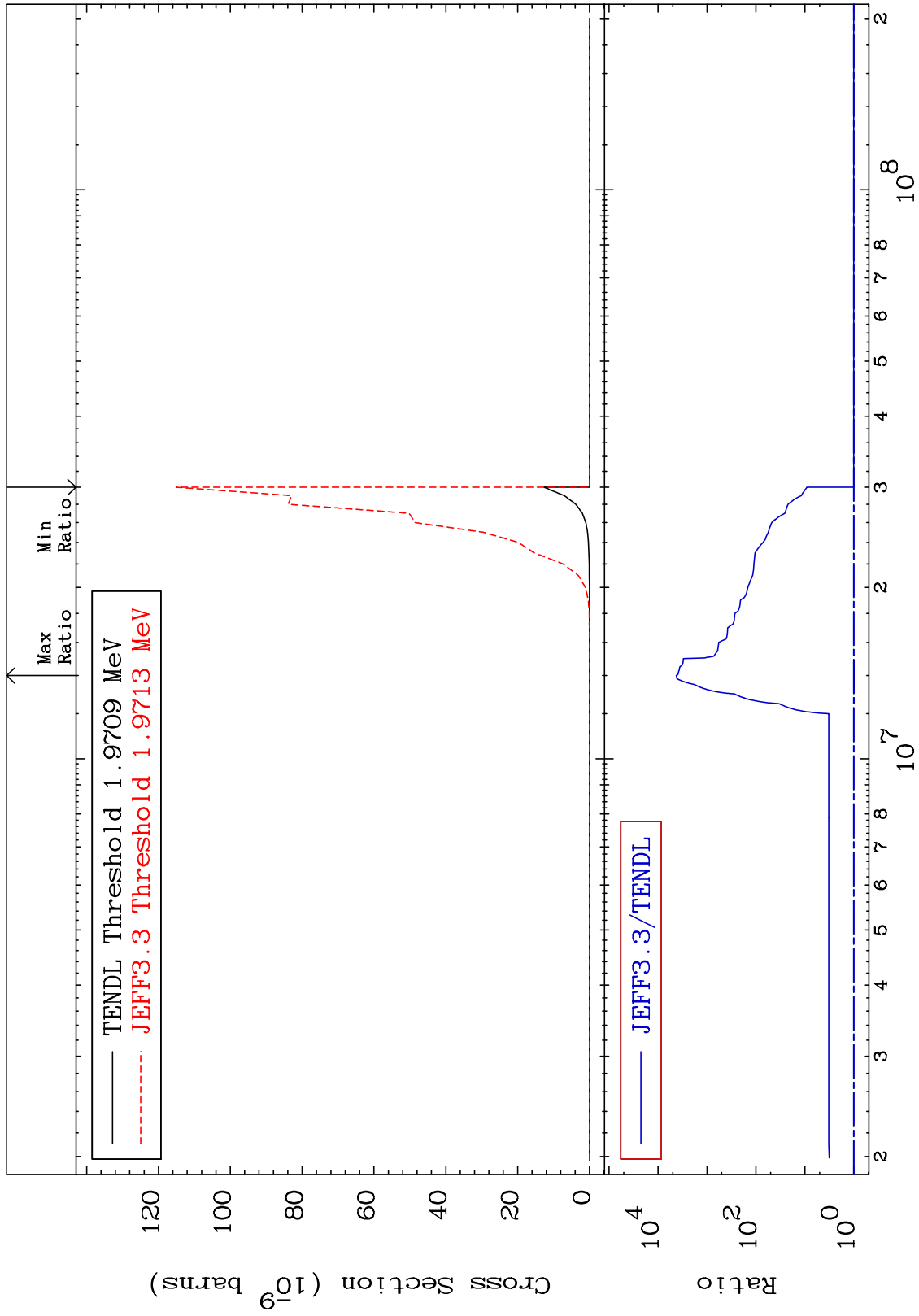
61

Incident Energy (eV)

74-W -180

MAT 7425

(n,d) α
Cross Section
0.000 To 9999. %
74-W -180



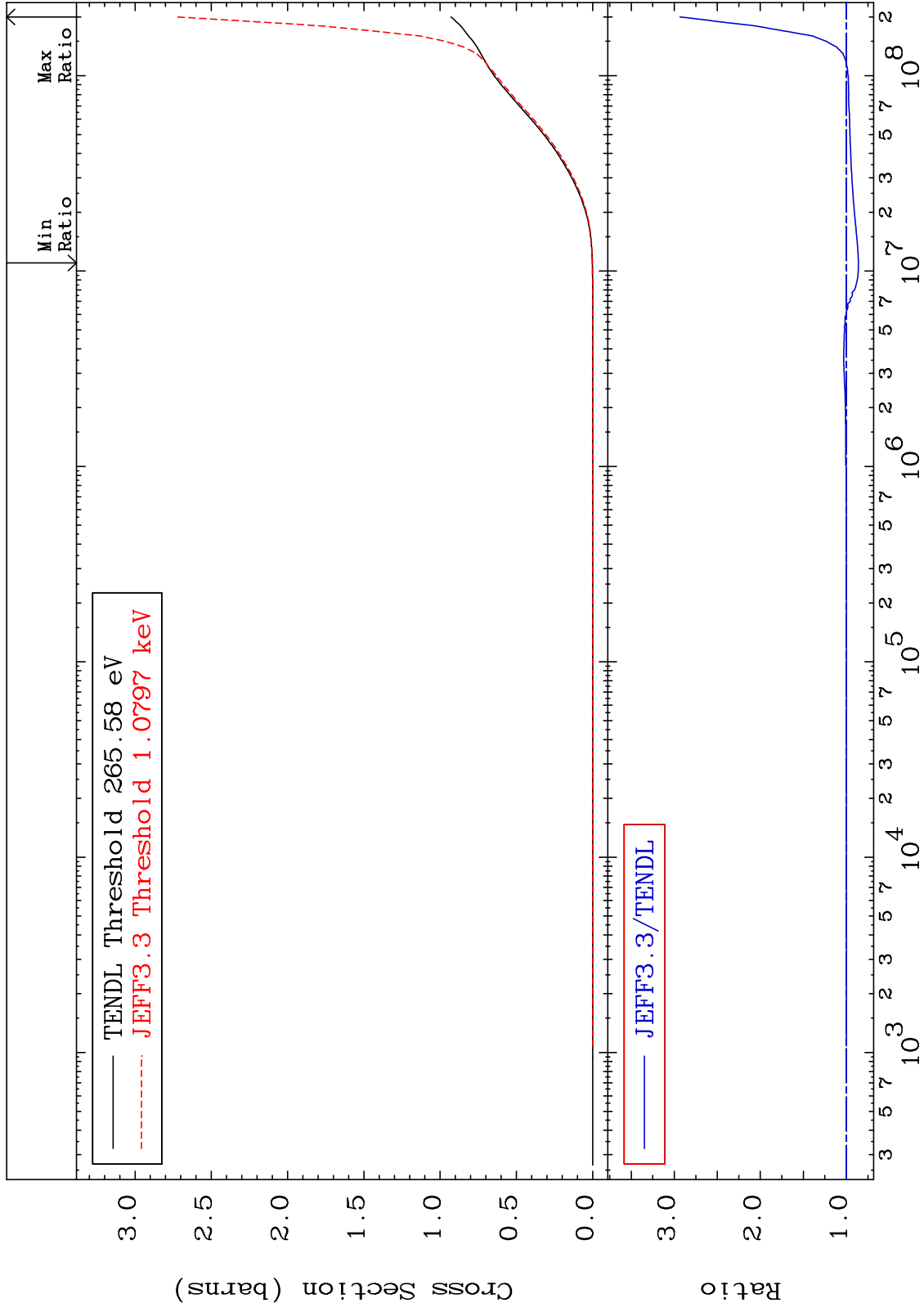
62

74-W -180

MAT 7425

Hydrogen Production Cross Section

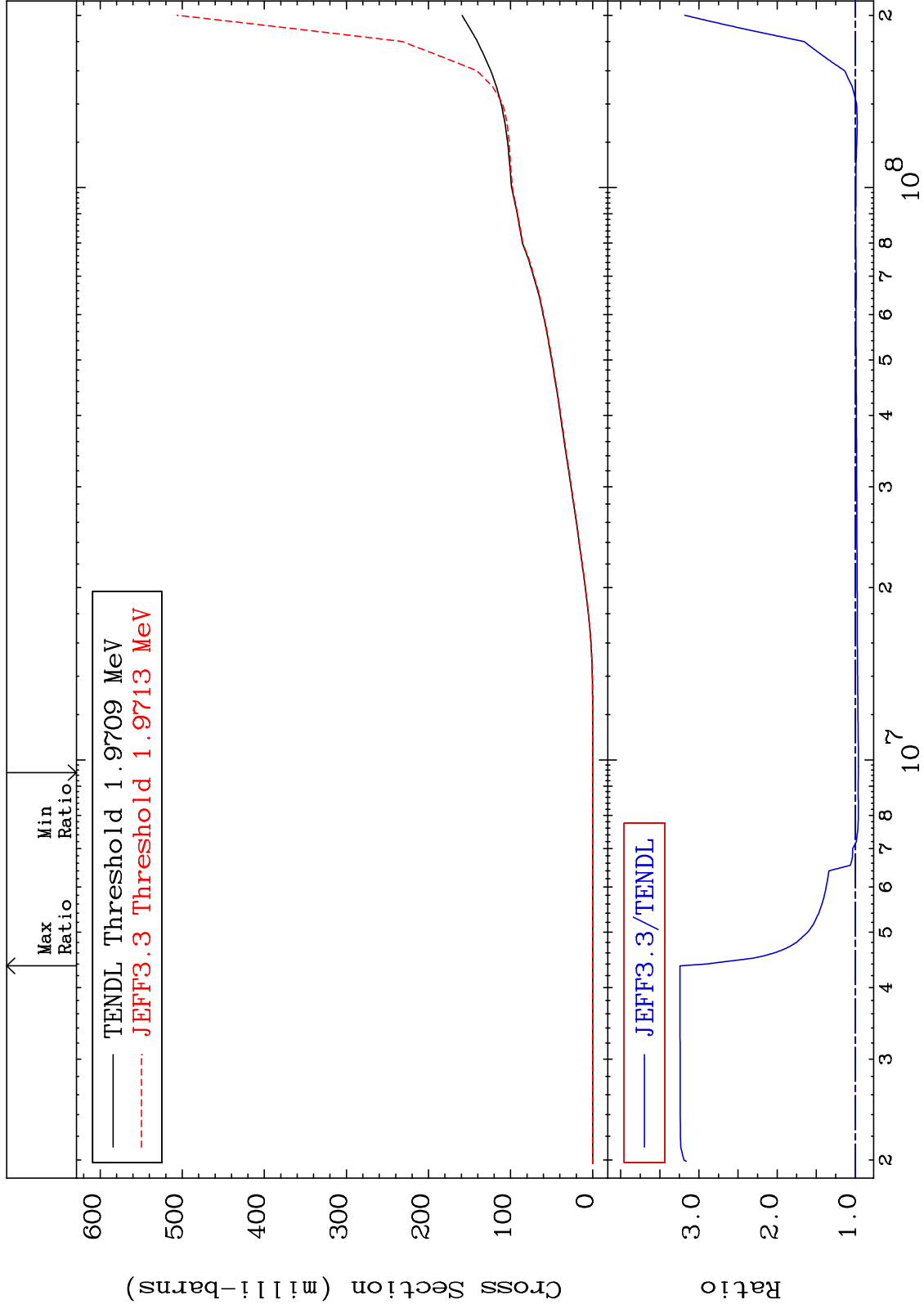
74-W -180
-13.99 To 193.3 %



MAT 7425

Deuterium Production
Cross Section

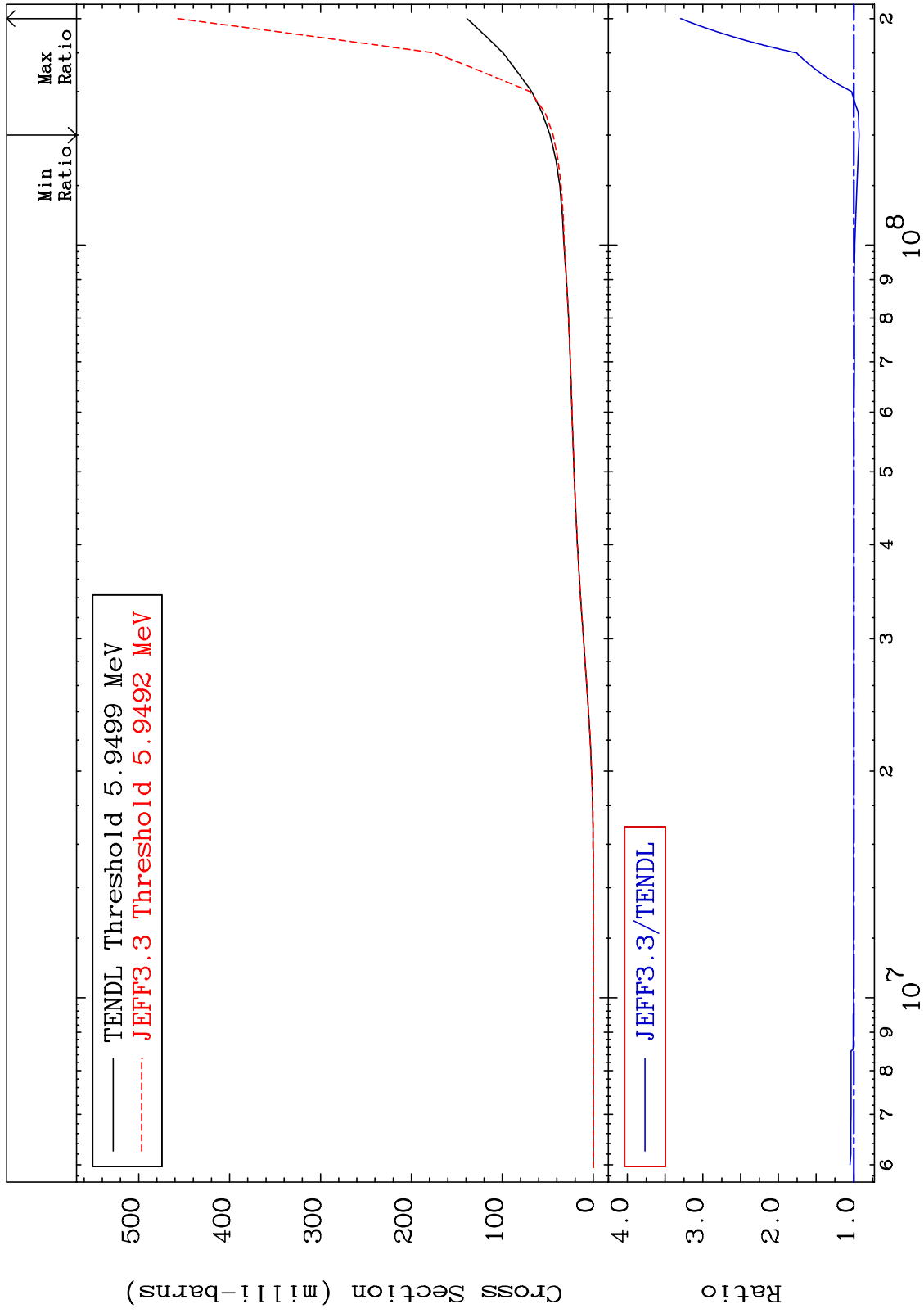
74-W -180
-3.951 To 224.2 %



MAT 7425

Tritium Production
Cross Section

74-W -180
-7.094 To 229.4 %



65

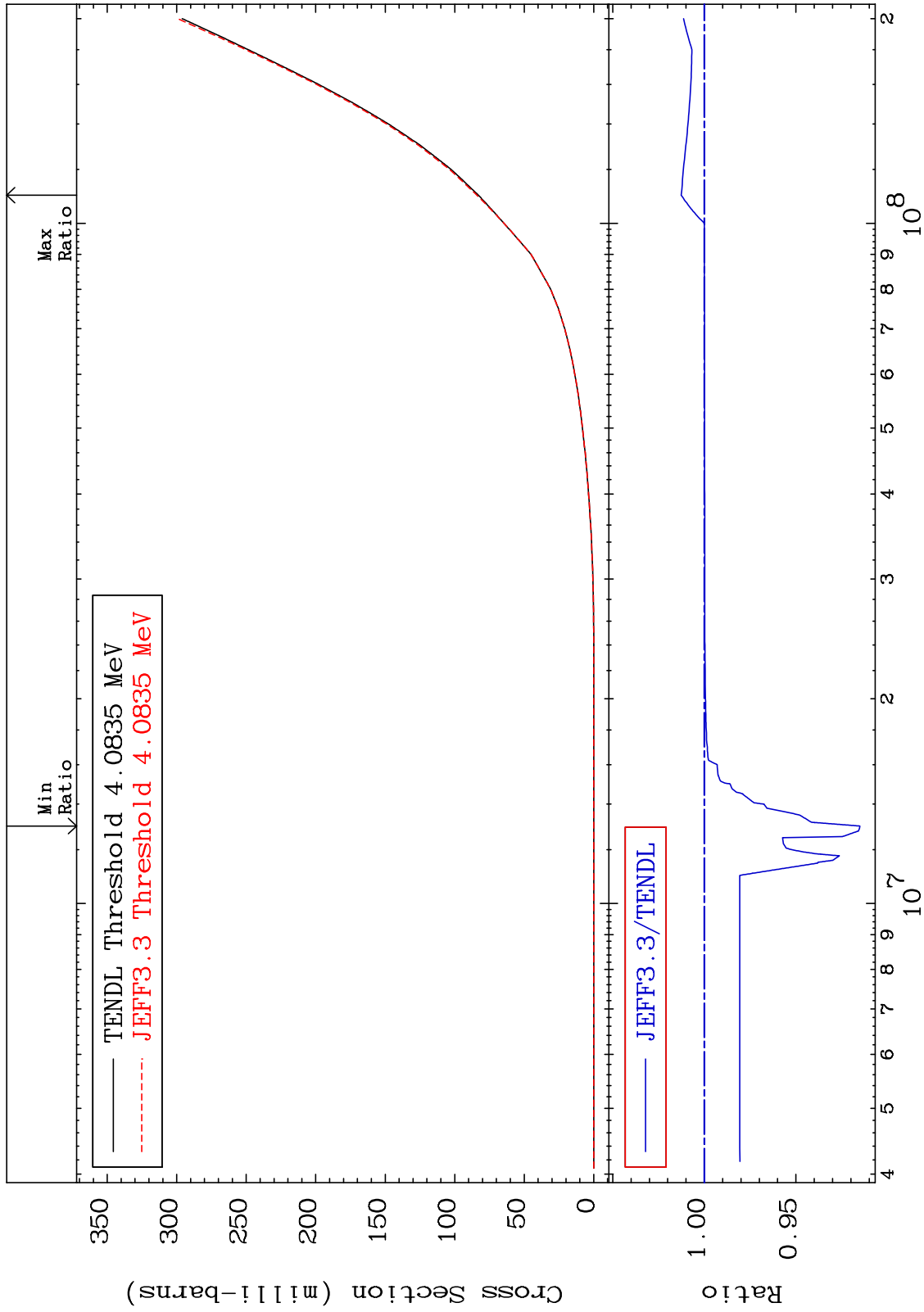
Incident Energy (eV)

74-W -180

MAT 7425

He-3 Production
Cross Section

74-W -180
-8.493 To 1.262 %



66

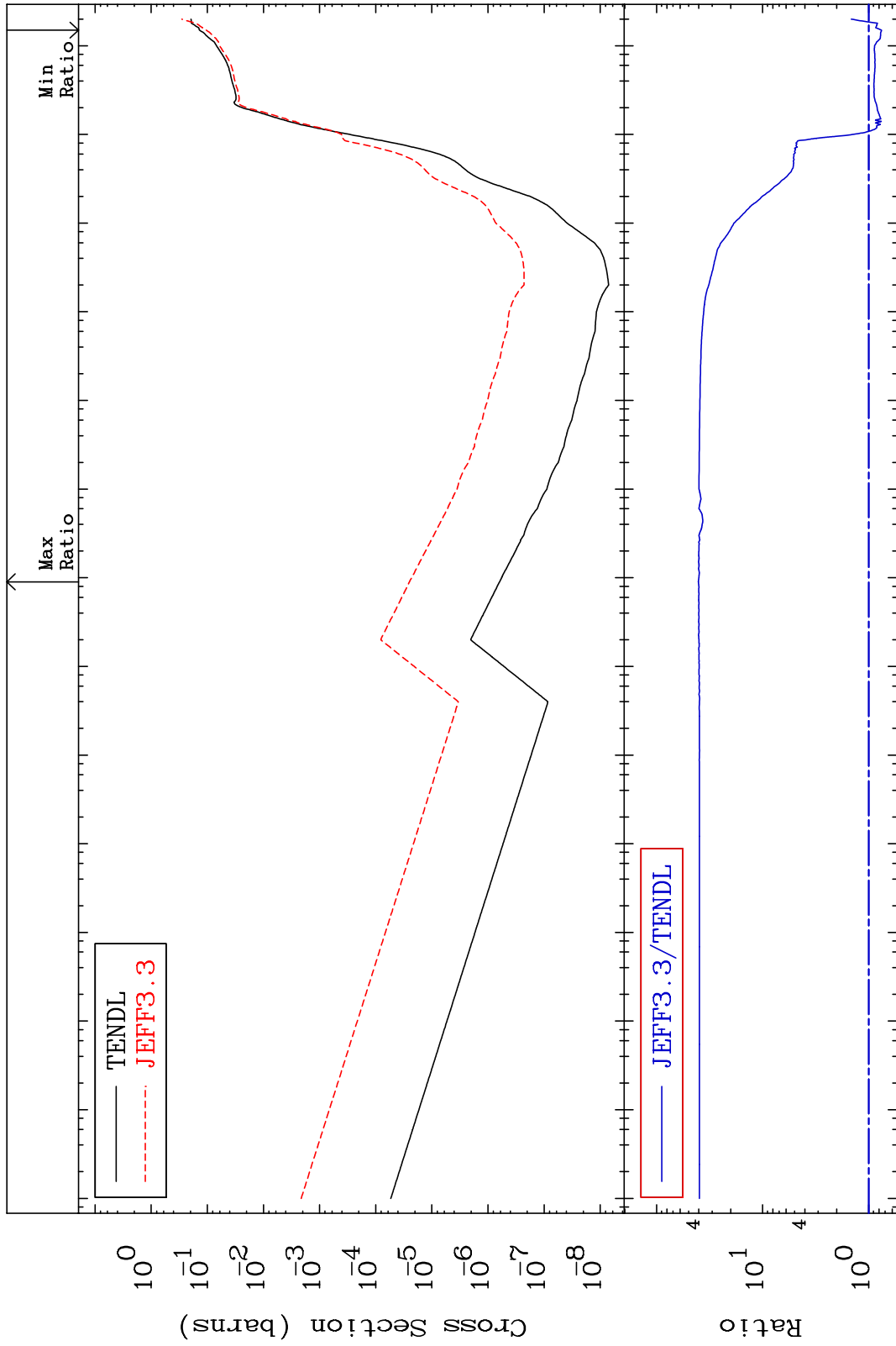
Incident Energy (eV)

74-W -180

MAT 7425

He-4 Production
Cross Section

74-W -180
-24.38 To 3941. %



67

Incident Energy (eV)

74-W -180

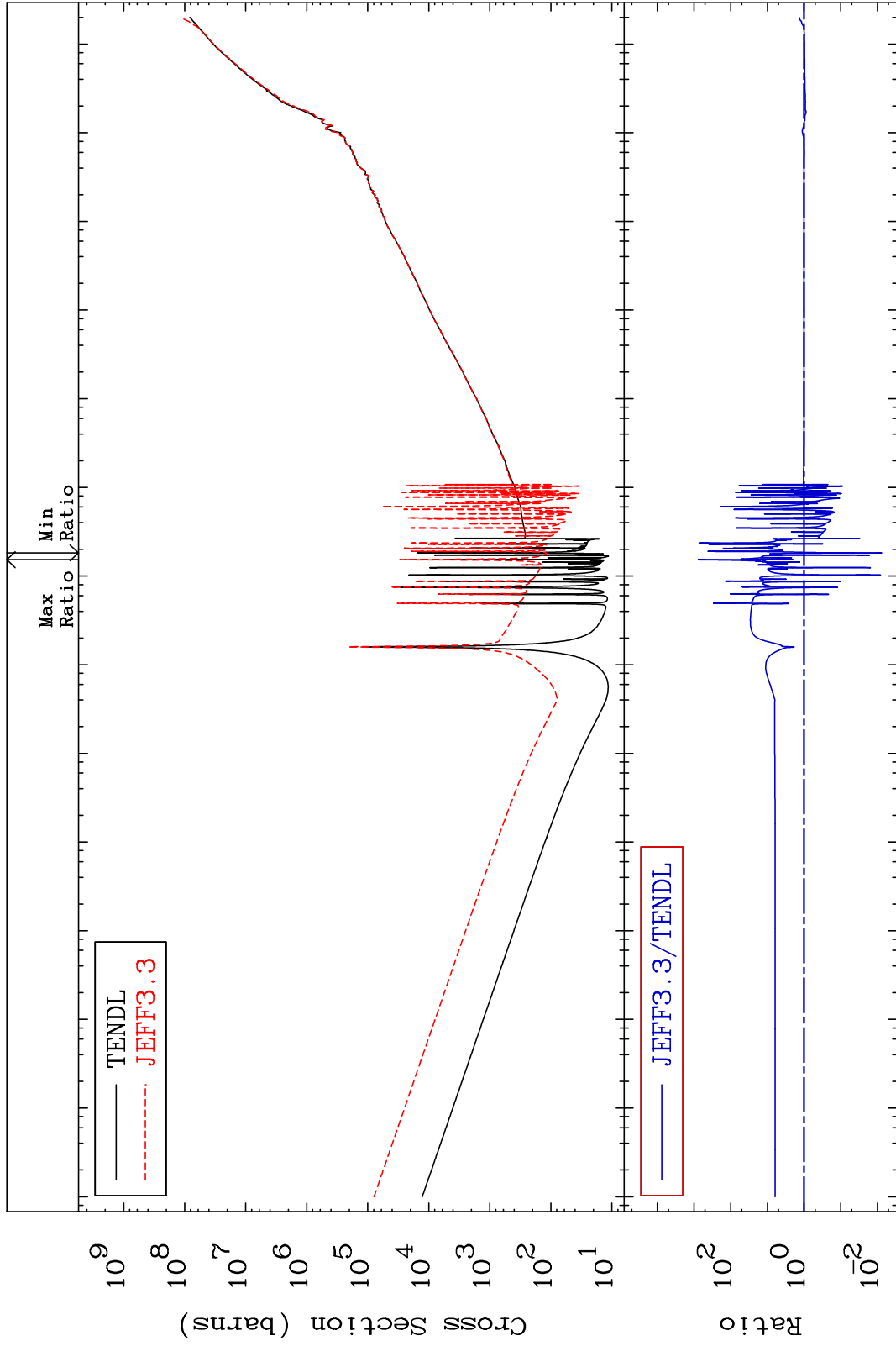
MAT 7425

Kerma total (eV-barns)

74-W -180

-99.23 To 9999. %

Cross Section



Incident Energy (eV)

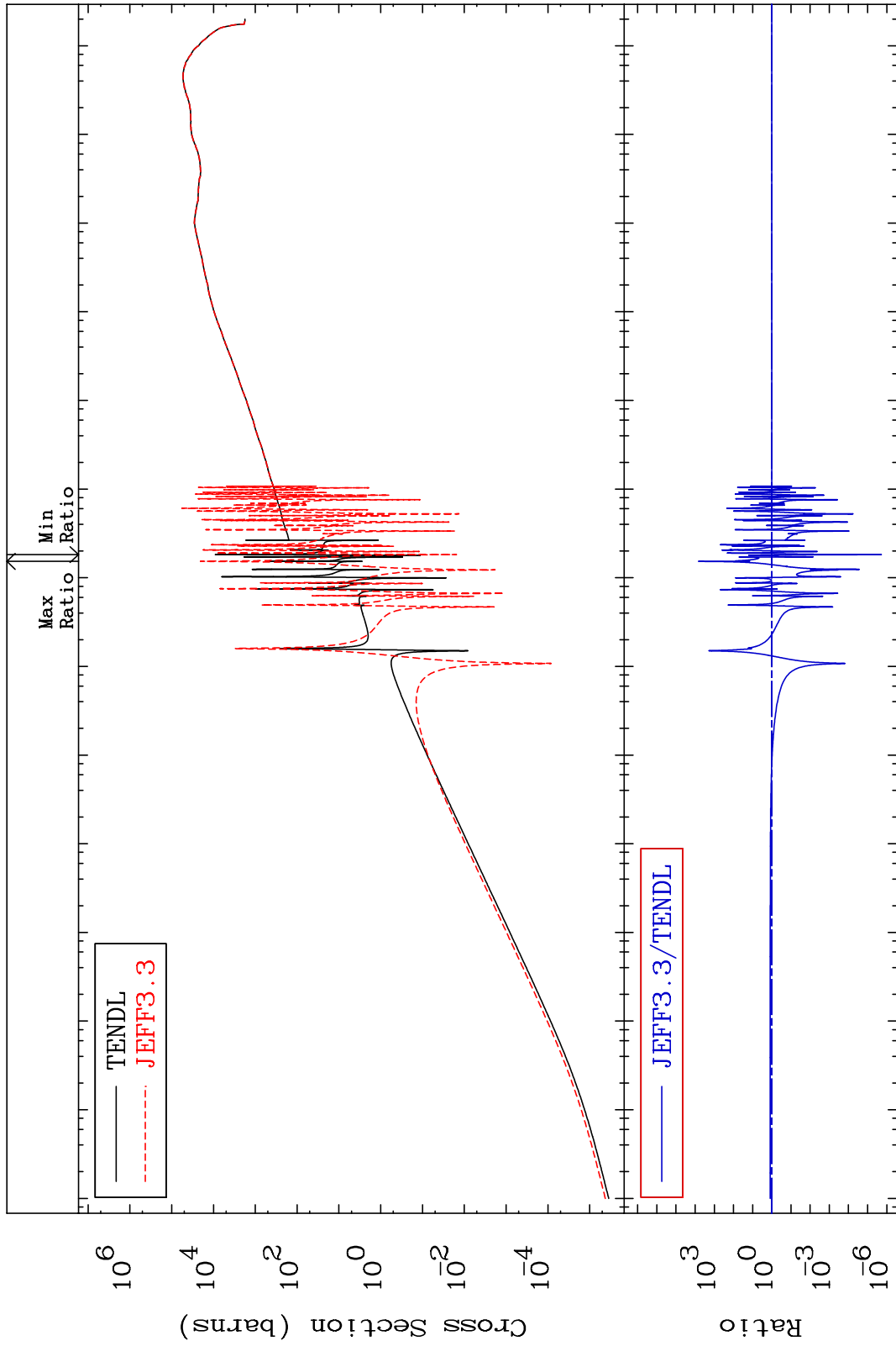
68

74-W -180

MAT 7425

Kerma elastic
Cross Section

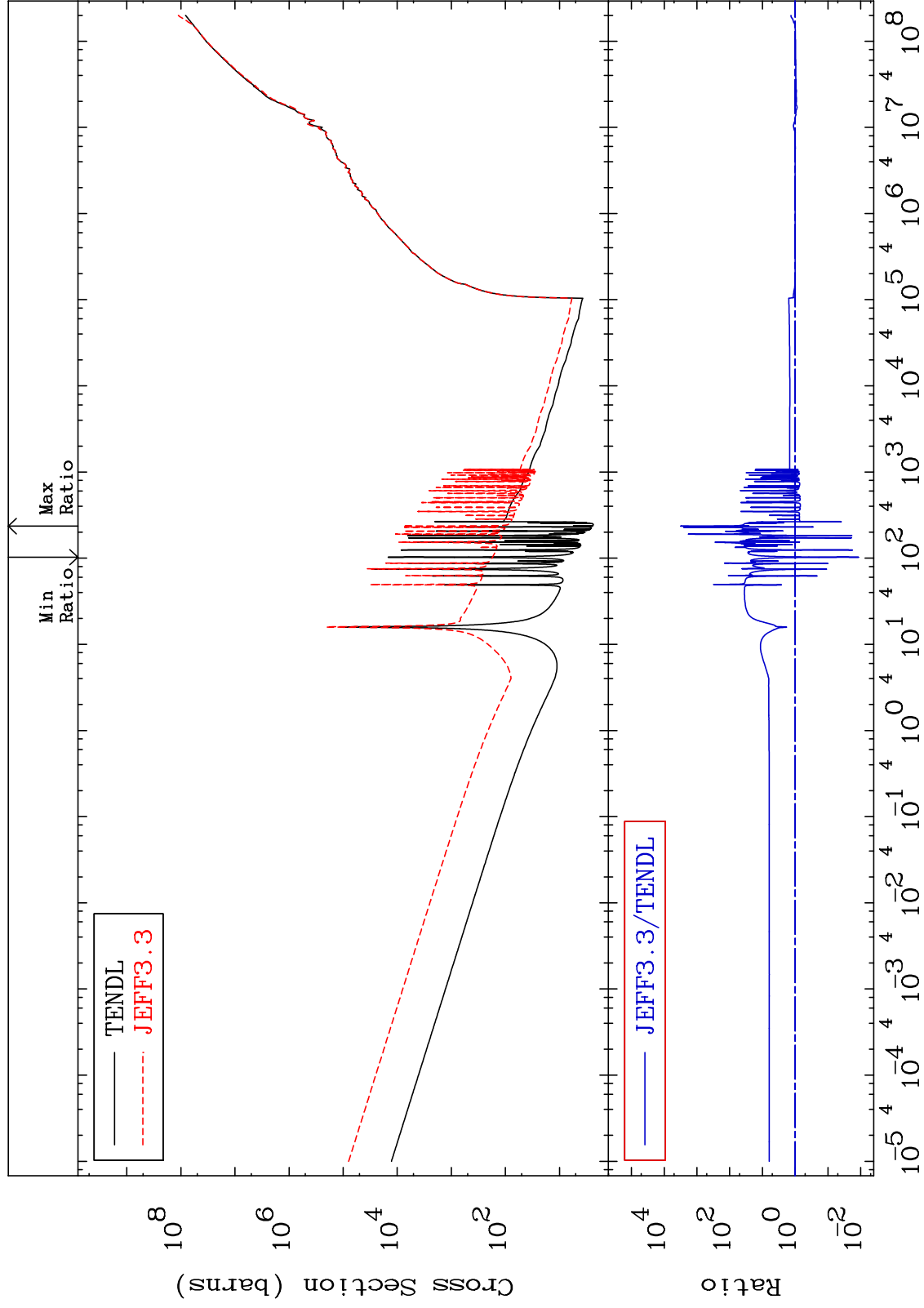
74-W -180
-100.0 To 9999. %



MAT 7425

Kerma non-elastic (all but mt2)
Cross Section

74-W -180
-98.83 To 9999. %



70

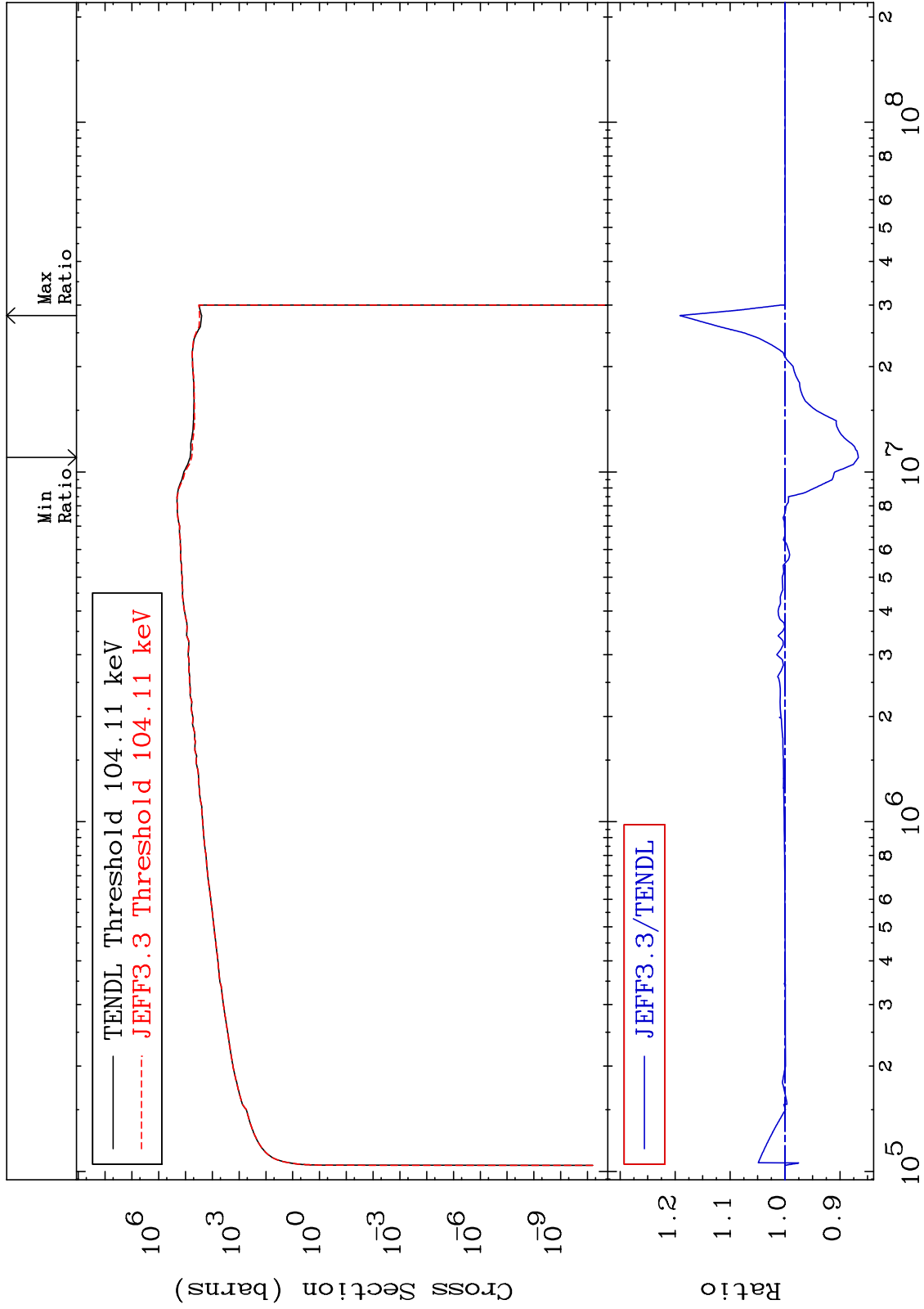
Incident Energy (eV)

74-W -180

MAT 7425

Kerma inelastic (mt51-91)
Cross Section

74-W -180
-13.35 To 19.10 %



71

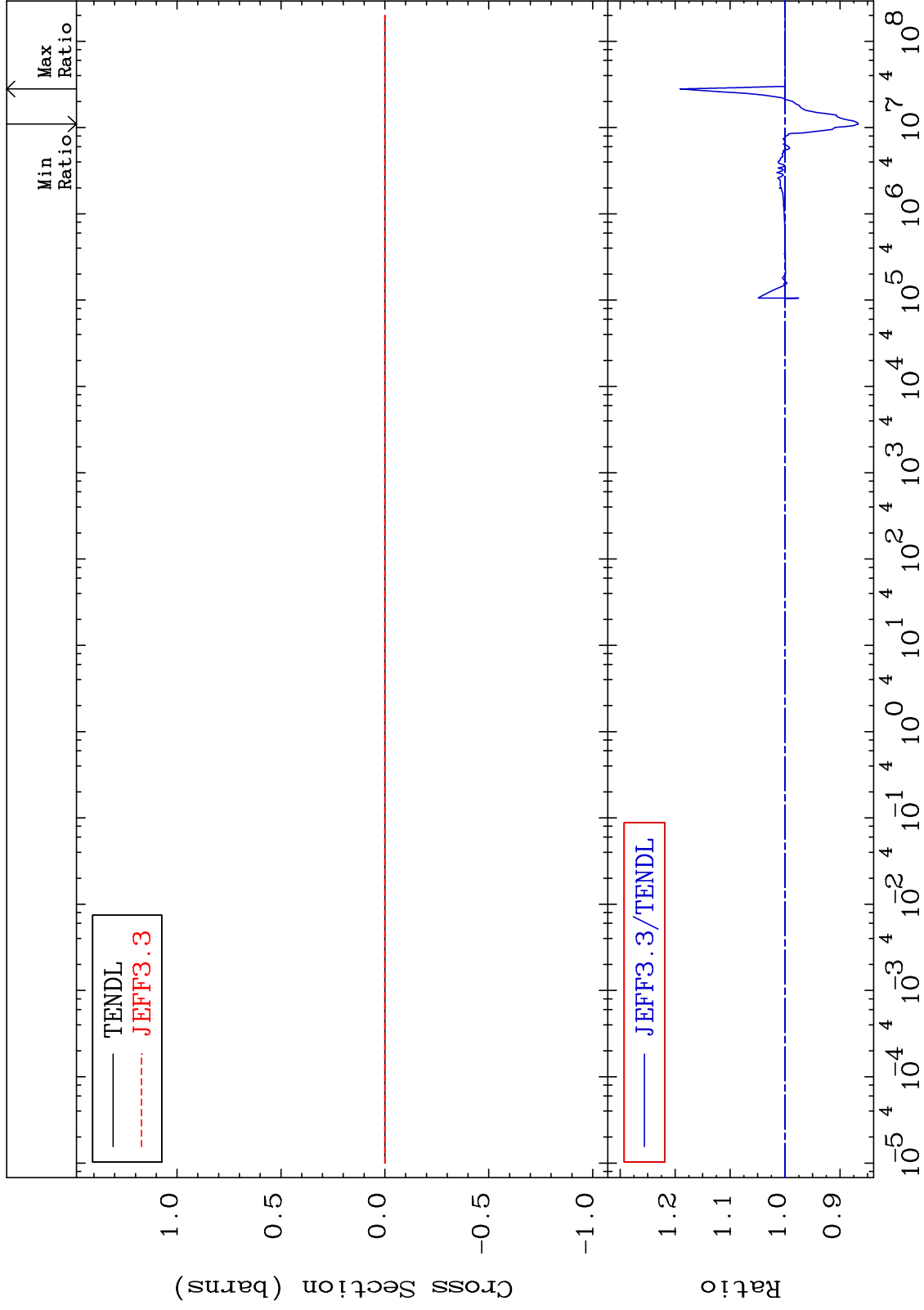
Incident Energy (eV)

74-W -180

MAT 7425

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

74-W -180
-13.35 To 19.10 %



72

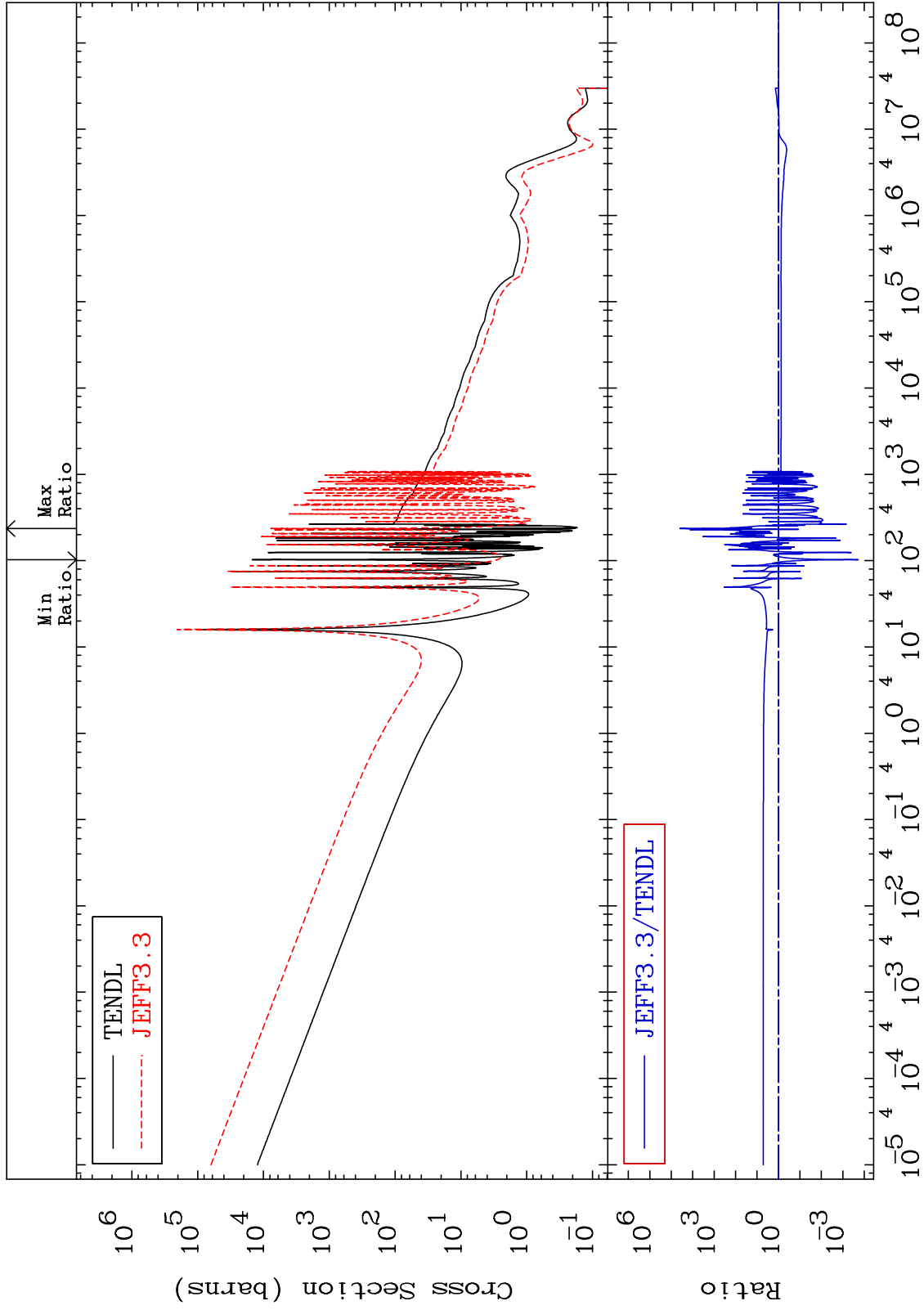
Incident Energy (eV)

74-W -180

MAT 7425

Kerma capture (mt102)
Cross Section

74-W -180
-99.98 To 9999. %



73

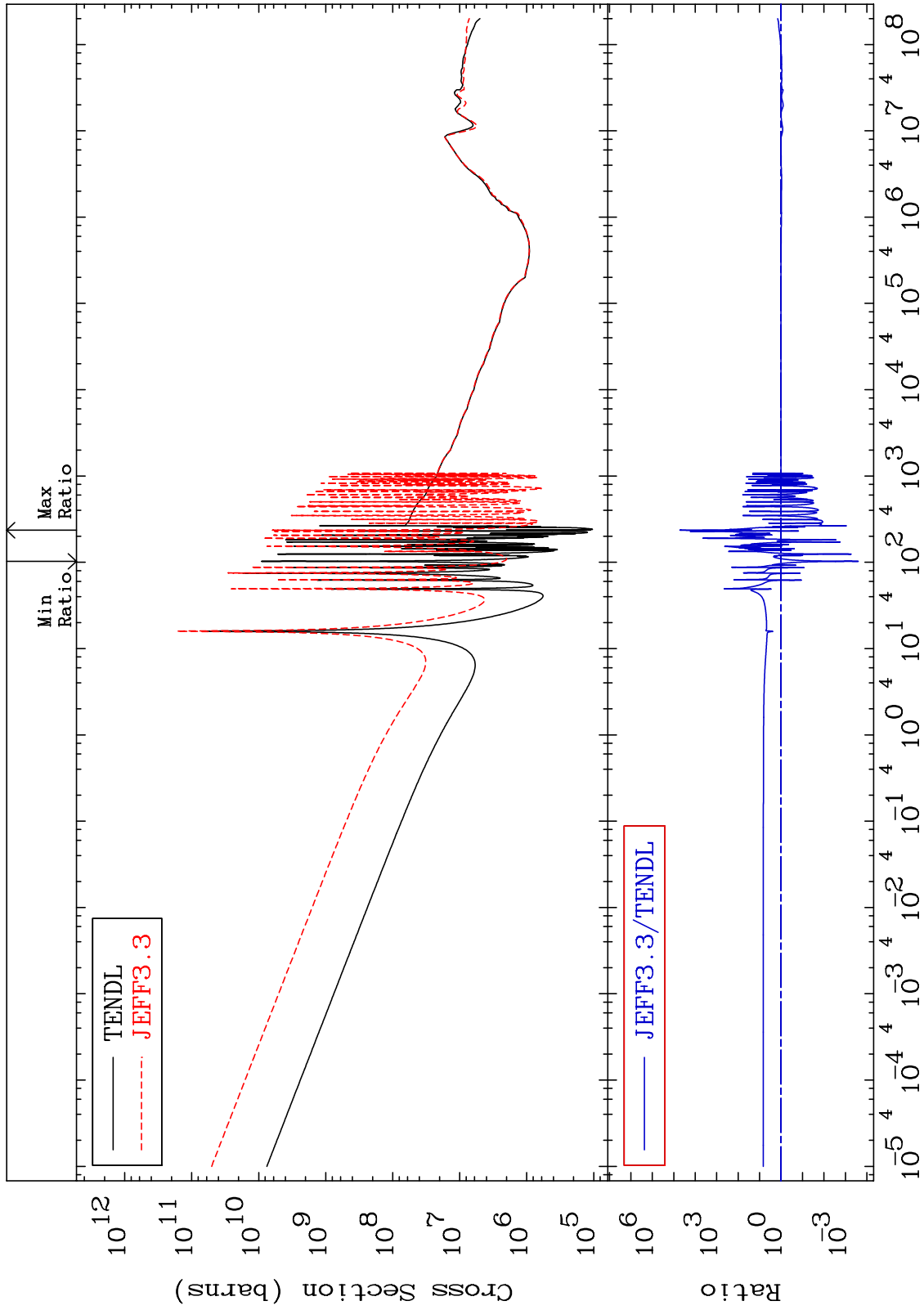
Incident Energy (eV)

74-W -180

MAT 7425

Total photon (eV-barns)
Cross Section

74-W -180
-99.98 To 9999. %



74

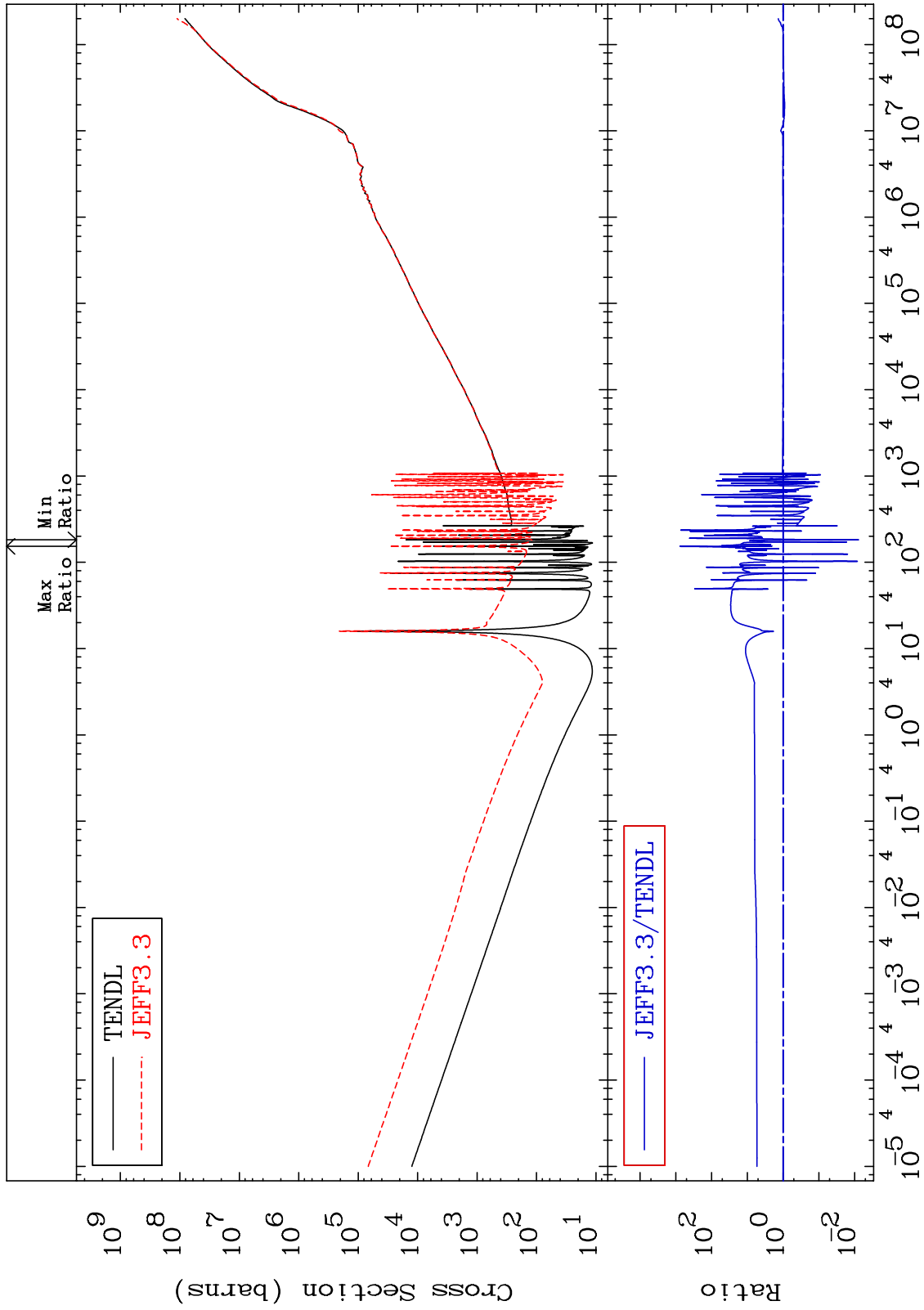
Incident Energy (eV)

74-W -180

MAT 7425

Total kinematic kerma (high limit)
Cross Section

74-W -180
-99.22 To 9999. %



75

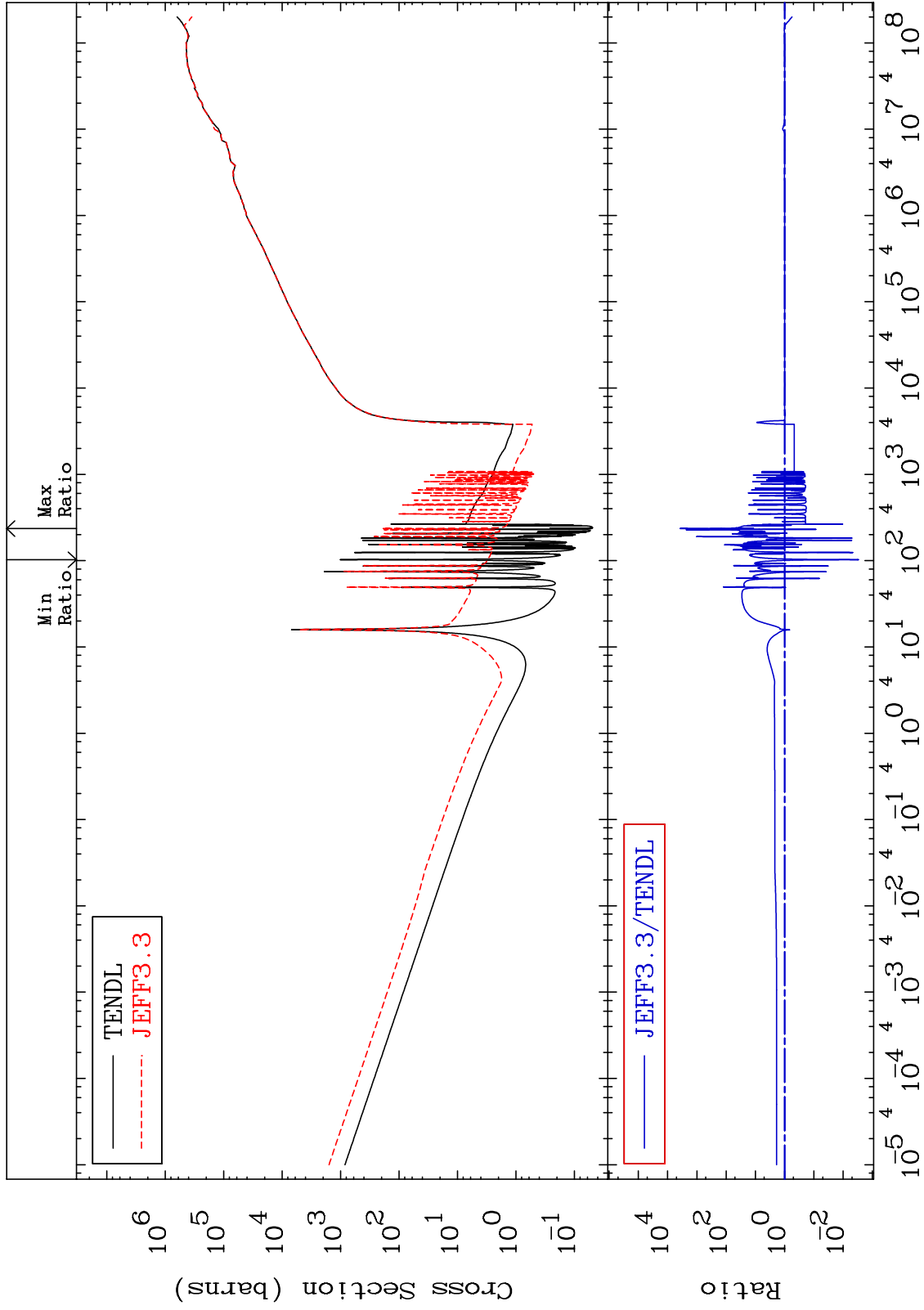
Incident Energy (eV)

74-W -180

MAT 7425

Dpa total (eV-barns)
Cross Section

74-W -180
-99.70 To 9999. %



76

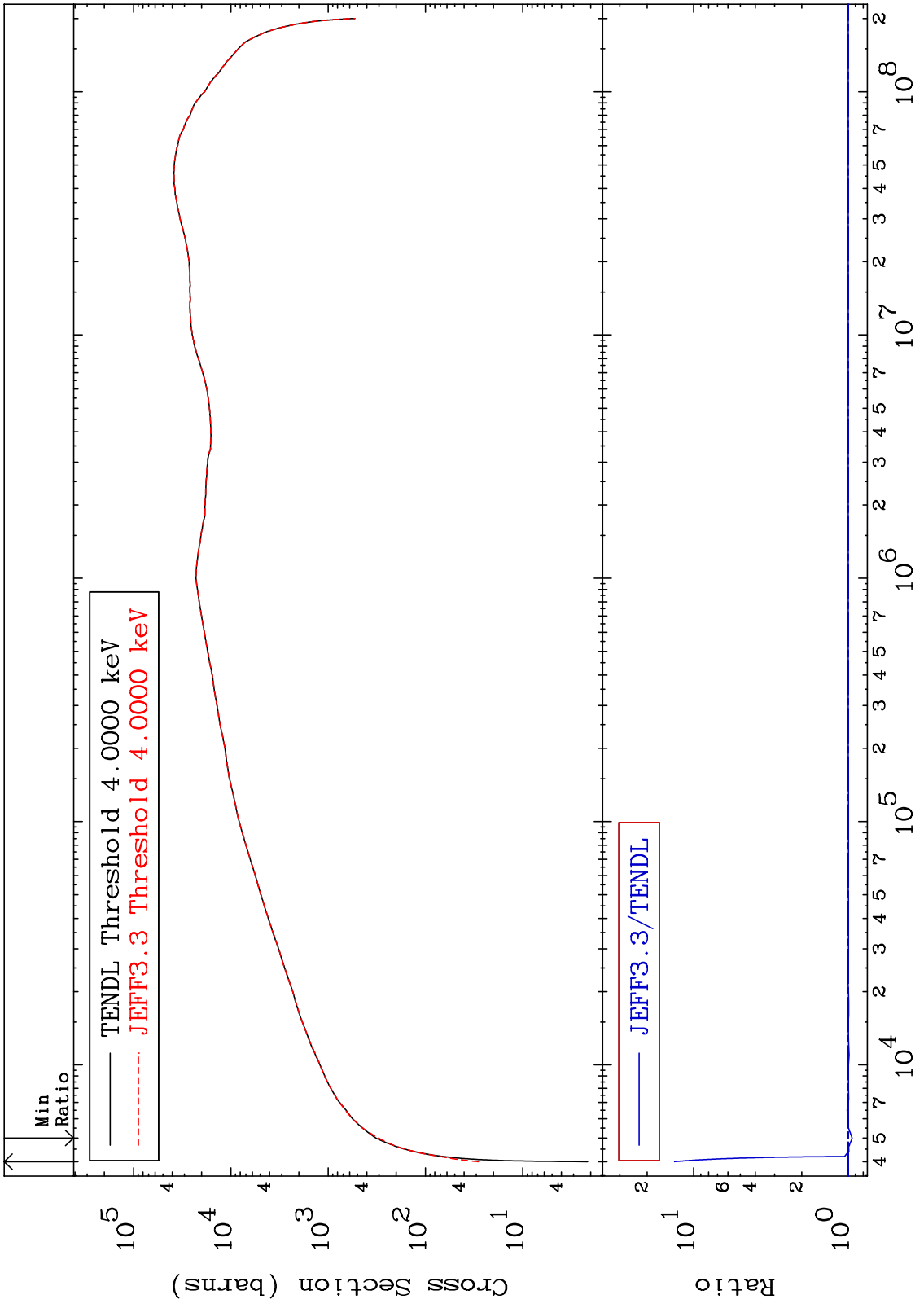
Incident Energy (eV)

74-W -180

MAT 7425

Dpa elastic (mt2)
Cross Section

74-W -180
-5.581 To 1228. %



77

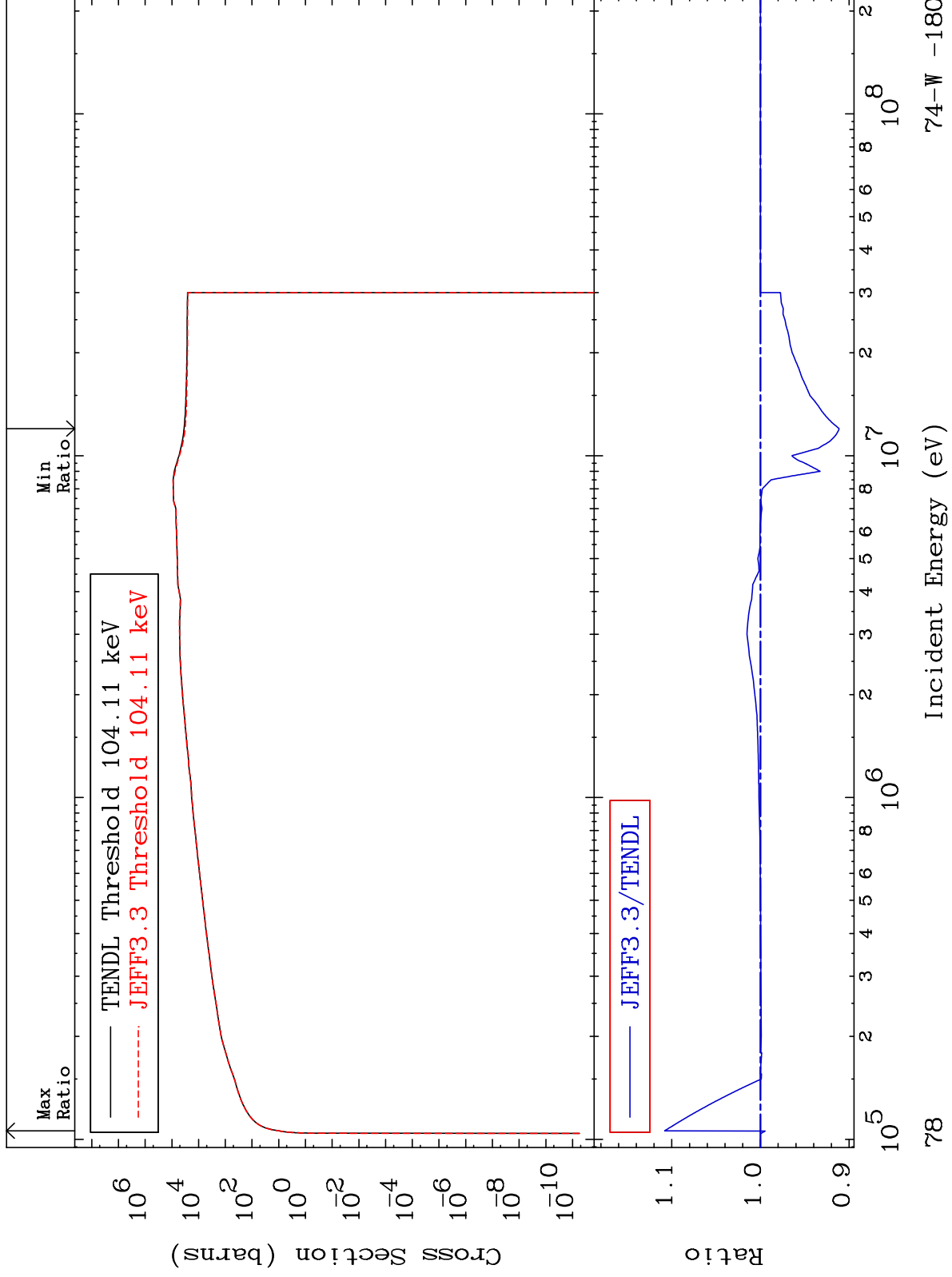
Incident Energy (eV)

74-W -180

MAT 7425

Dpa inelastic (mt51-91)
Cross Section

74-W -180
-8.875 To 10.80 %



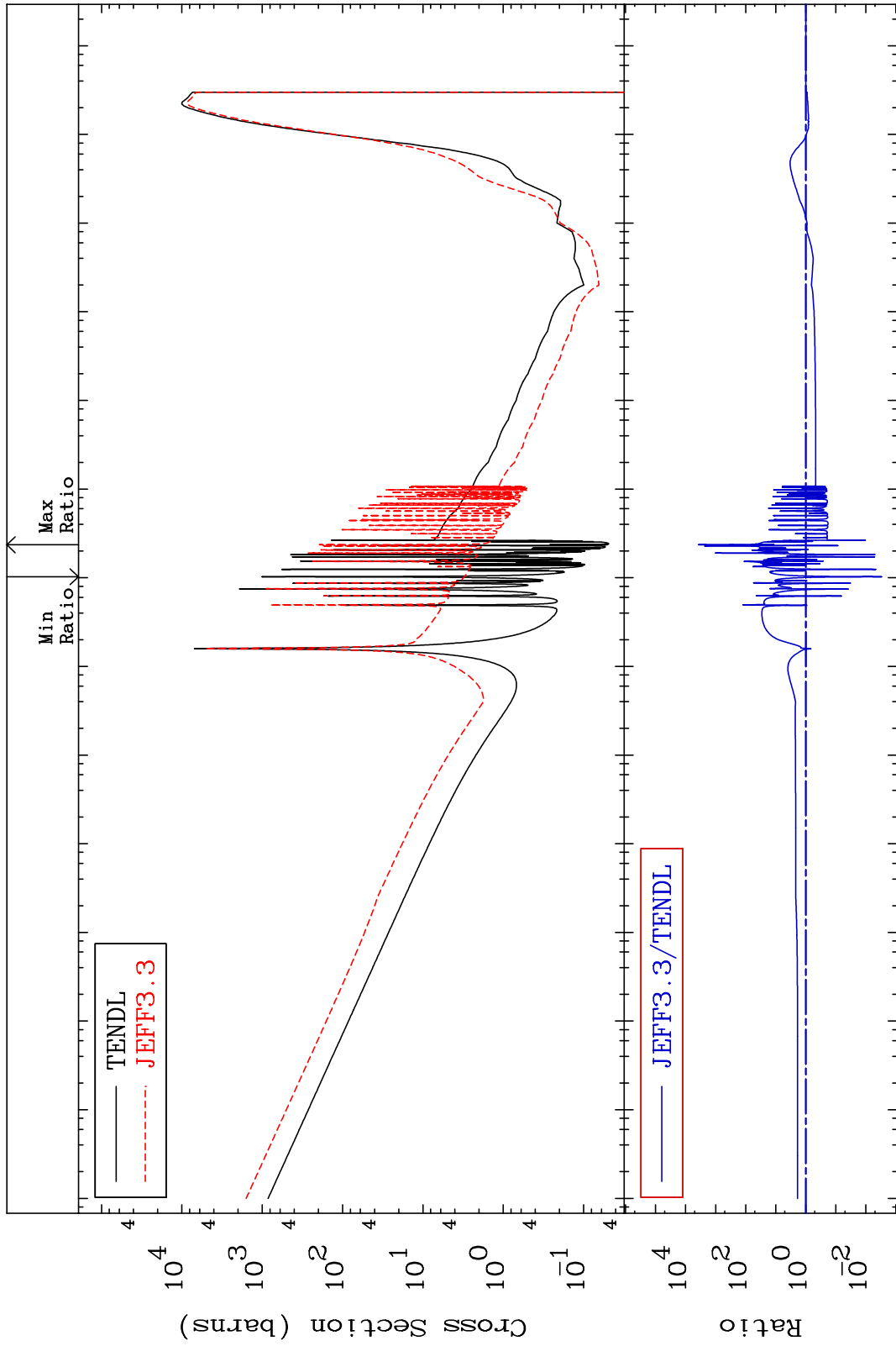
MAT 7425

Dpa disappearance (mt102 -120)

74-W -180

-99.70 To 9999. %

Cross Section



79

Incident Energy (eV)

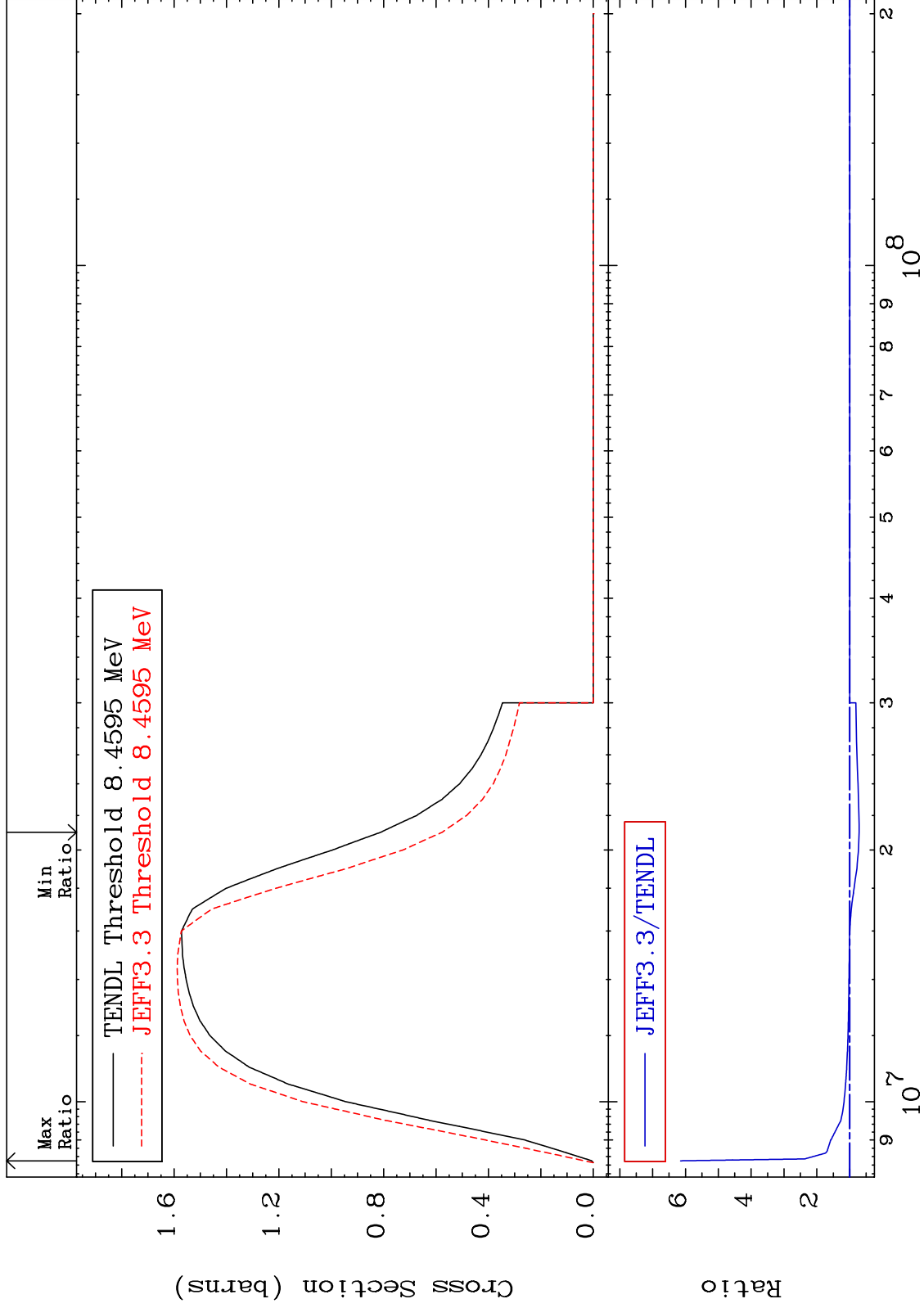
74-W -180

MAT 7425

(n,2n):74-W -179g

74-W -180

Radionuclide Production Cross Section -28.92 To 514.8 %



80

Incident Energy (eV)

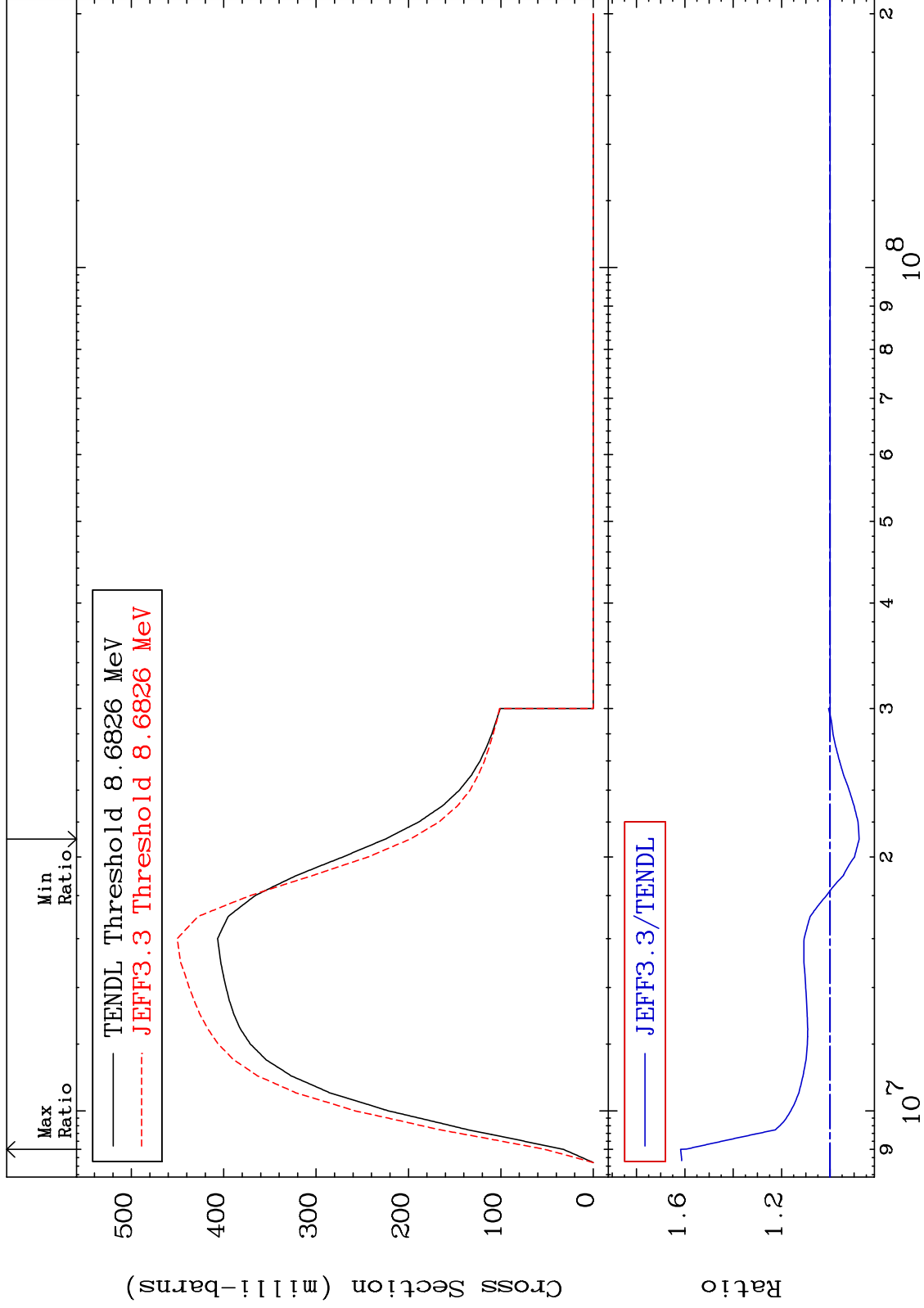
74-W -180

MAT 7425

(n,2n):74-W -179m2

74-W -180

Radionuclide Production Cross Section -12.06 To 61.75 %



81

Incident Energy (eV)

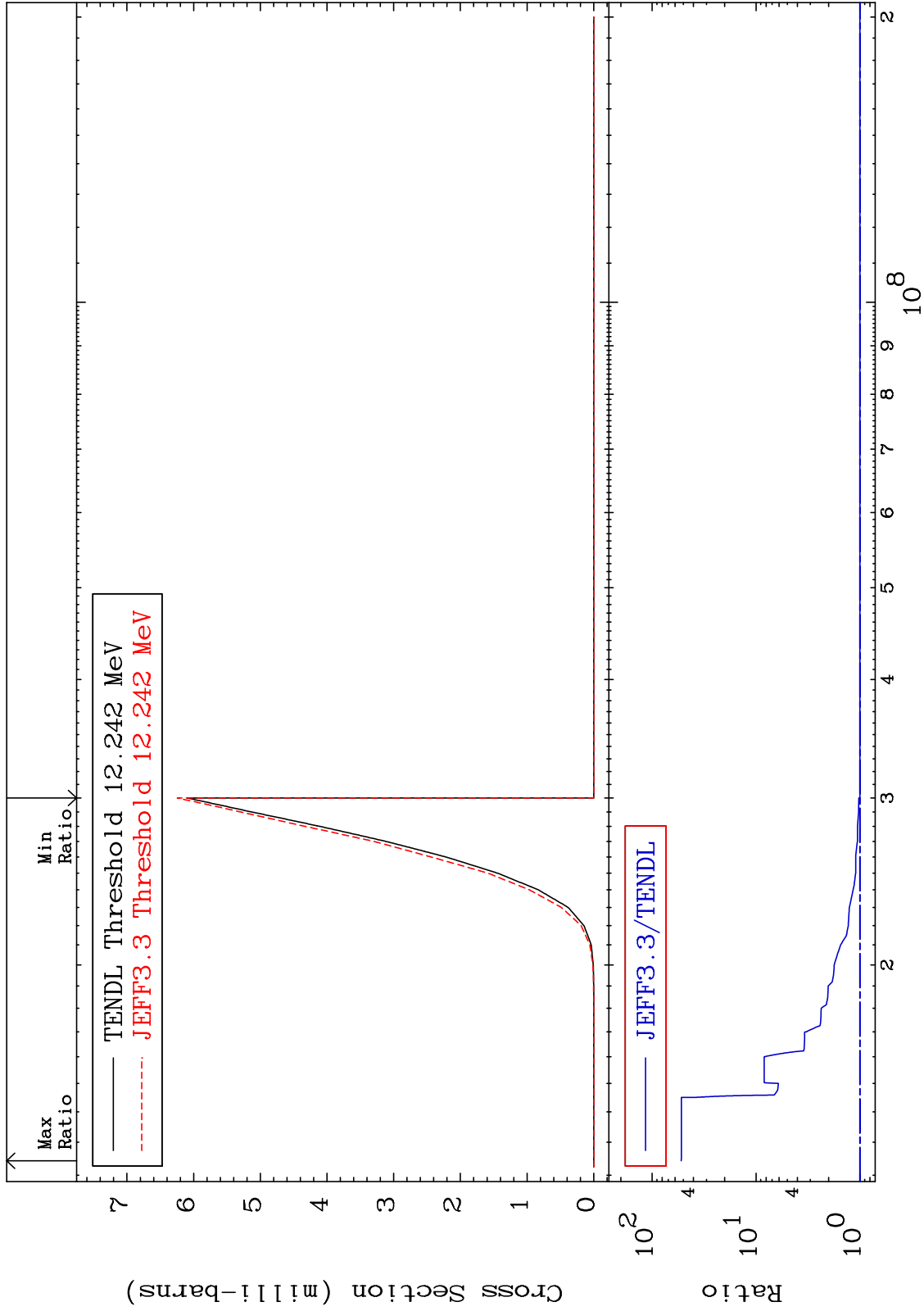
74-W -180

MAT 7425

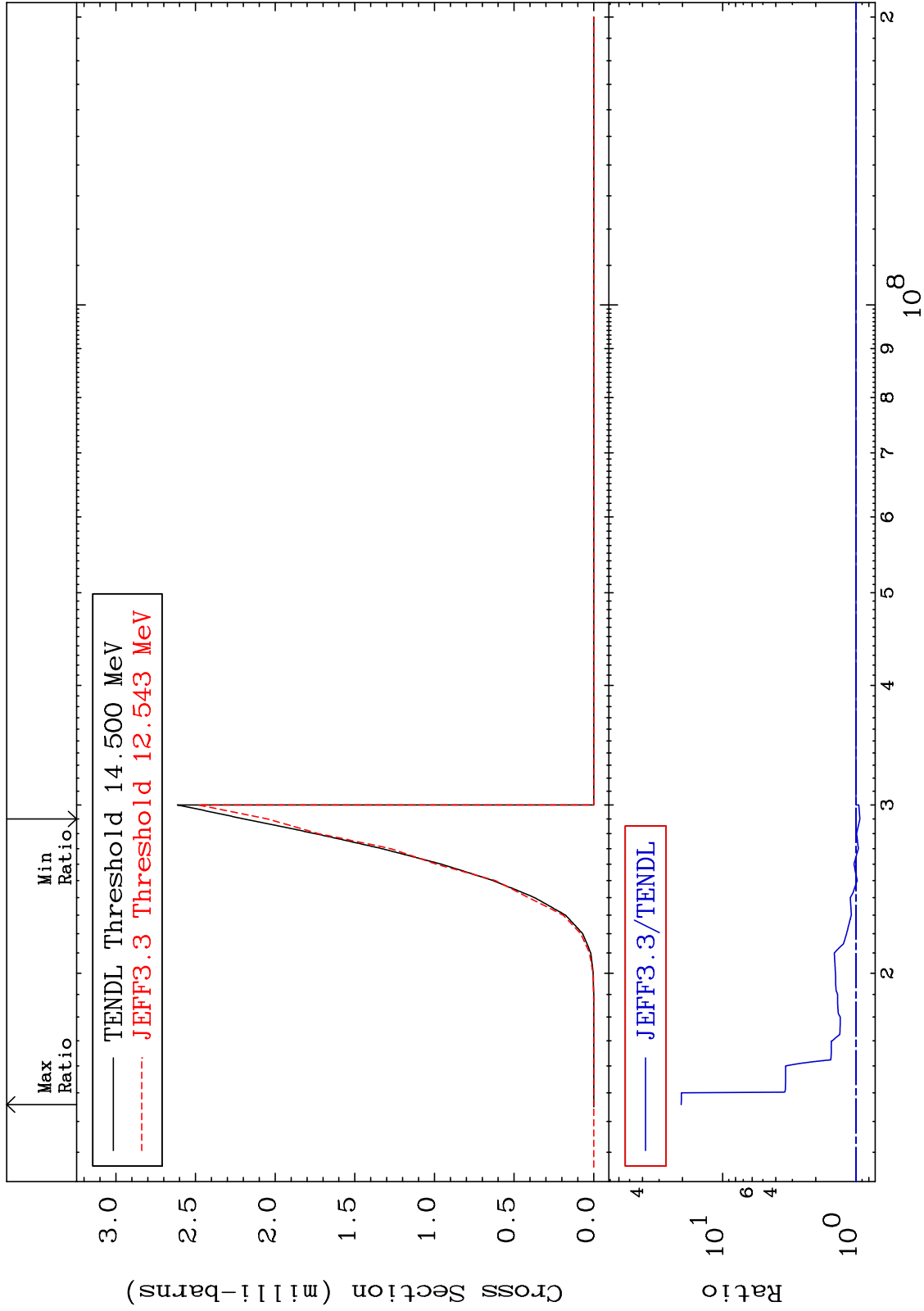
(n, n') d:73-Ta-178g

74-W -180

Radionuclide Production Cross Section 0.000 To 5141. %



Radionuclide Production Cross Section -6.701 To 1947. %

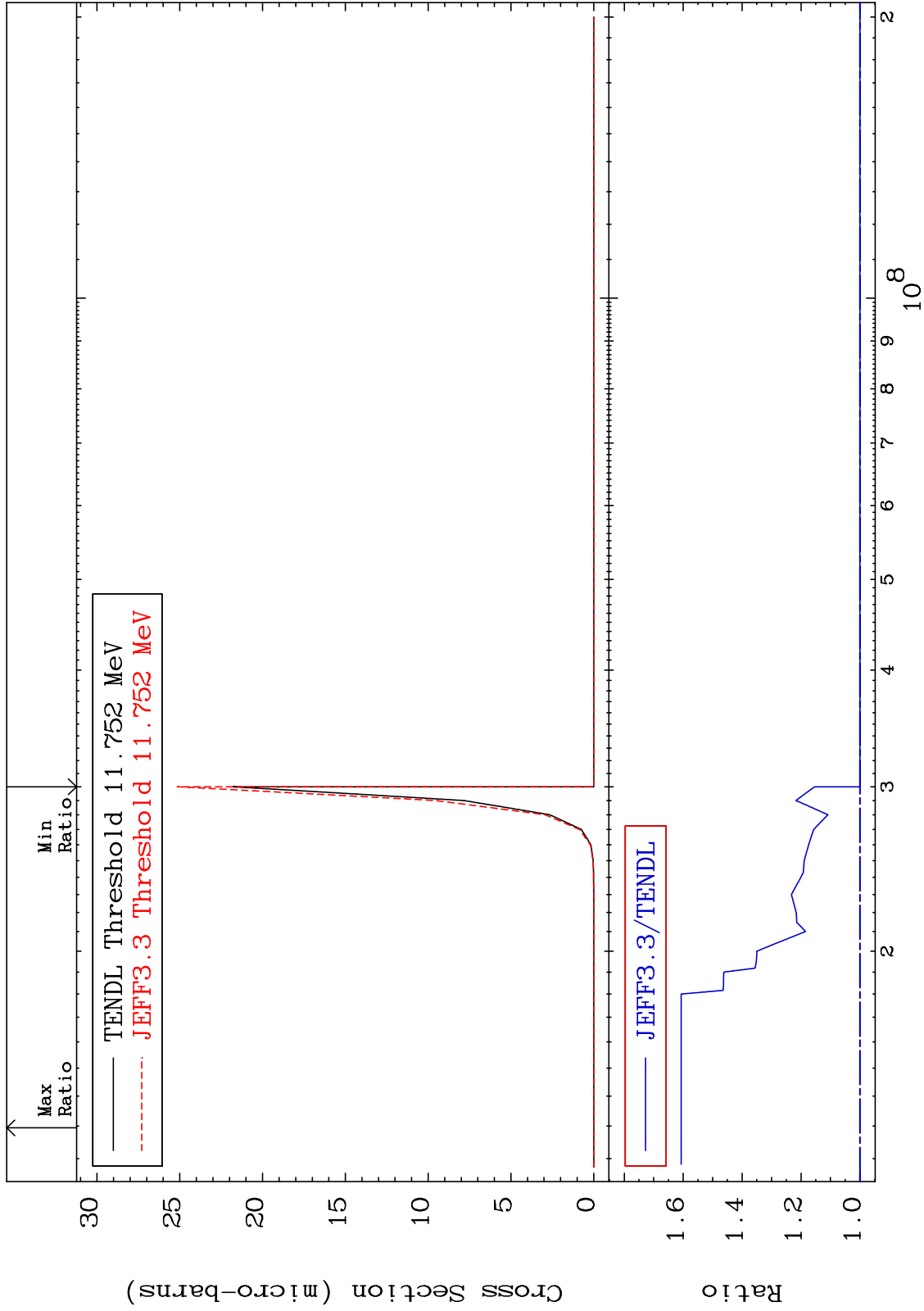


MAT 7425

(n, n') He-3:72-Hf-177g

74-W -180

Radionuclide Production Cross Section 0.000 To 60.66 %

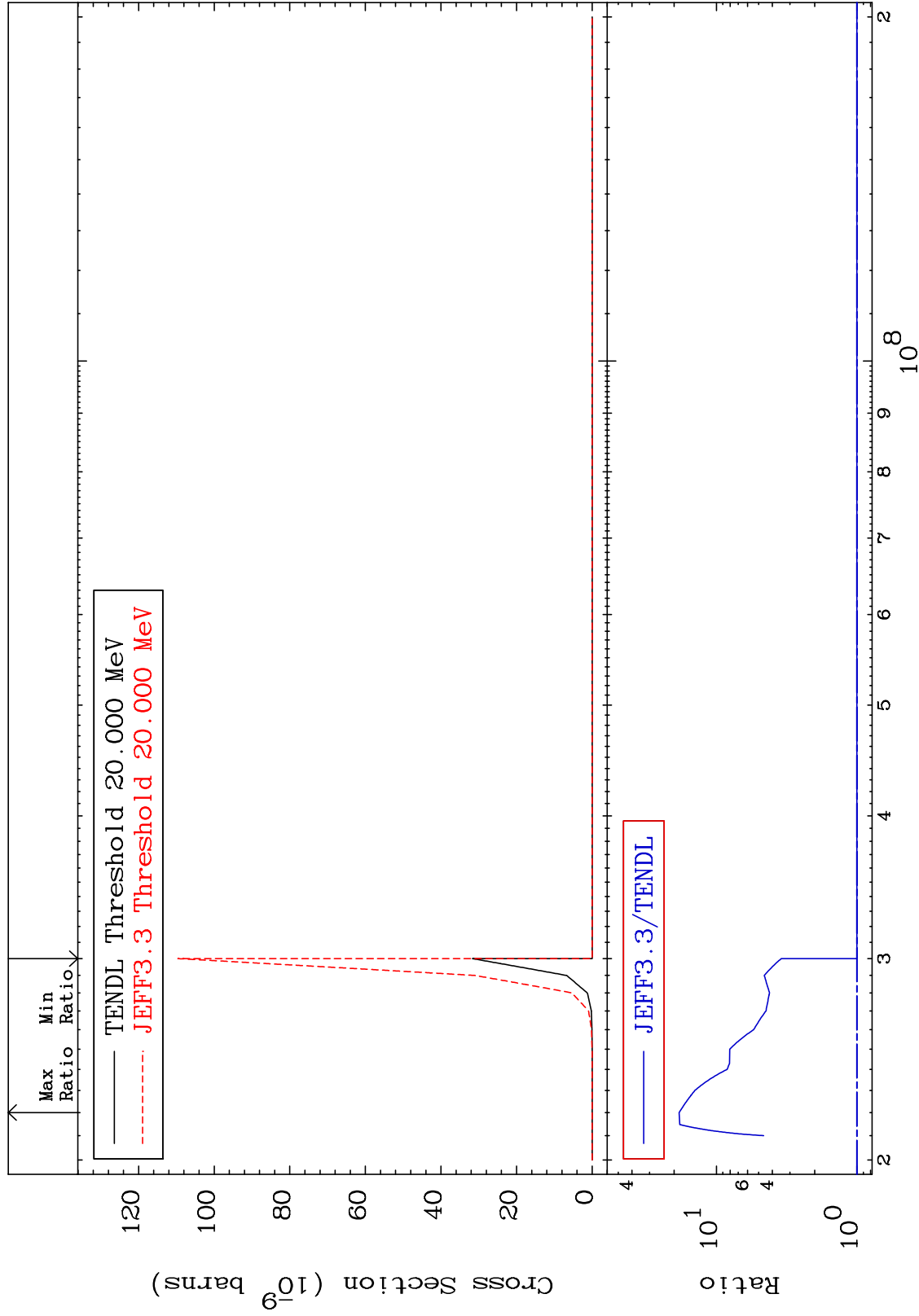


MAT 7425

(n, n') He-3:72-Hf-177m10

74-W -180

Radionuclide Production Cross Section 0.000 To 1743. %



85

Incident Energy (eV)

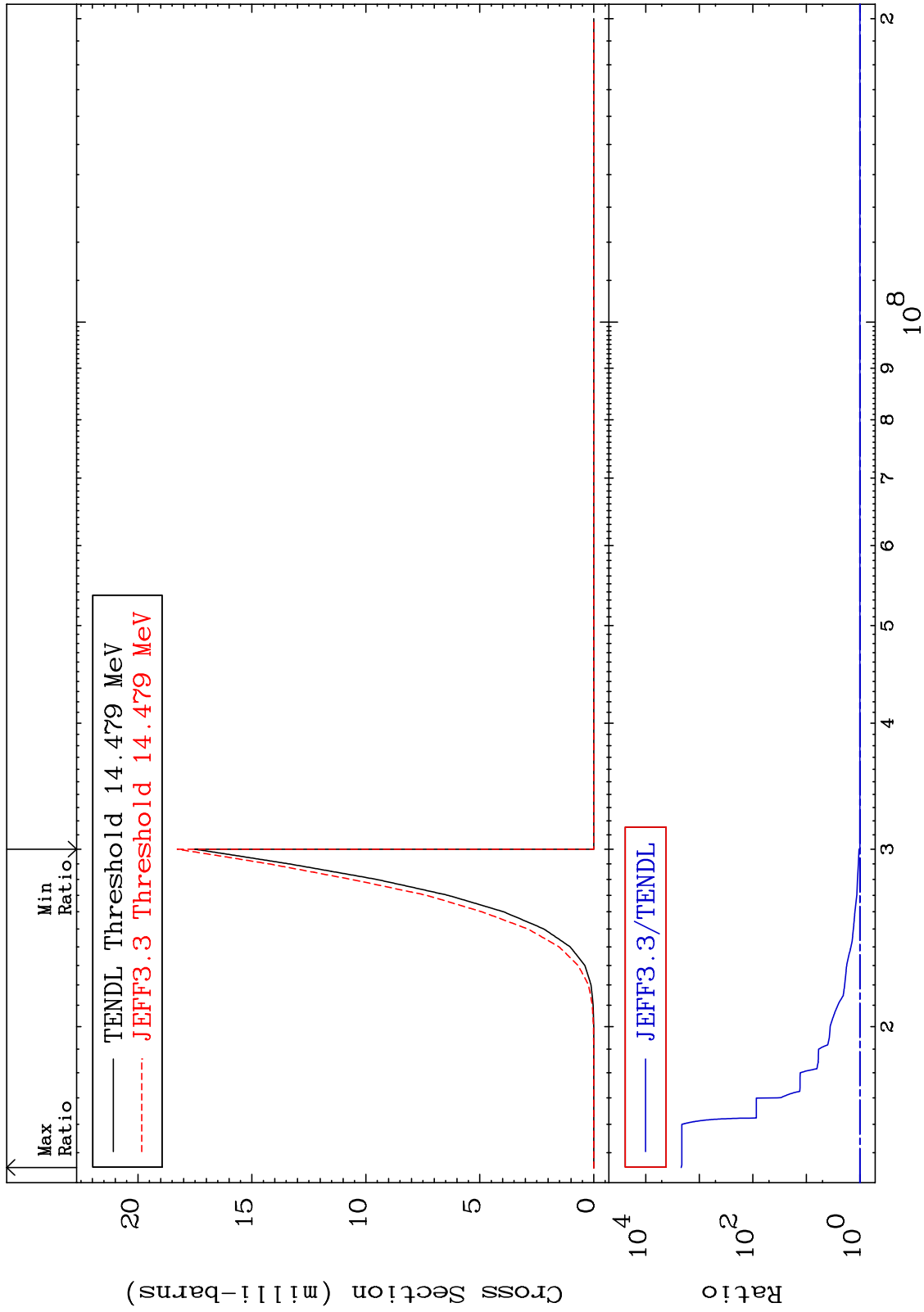
74-W -180

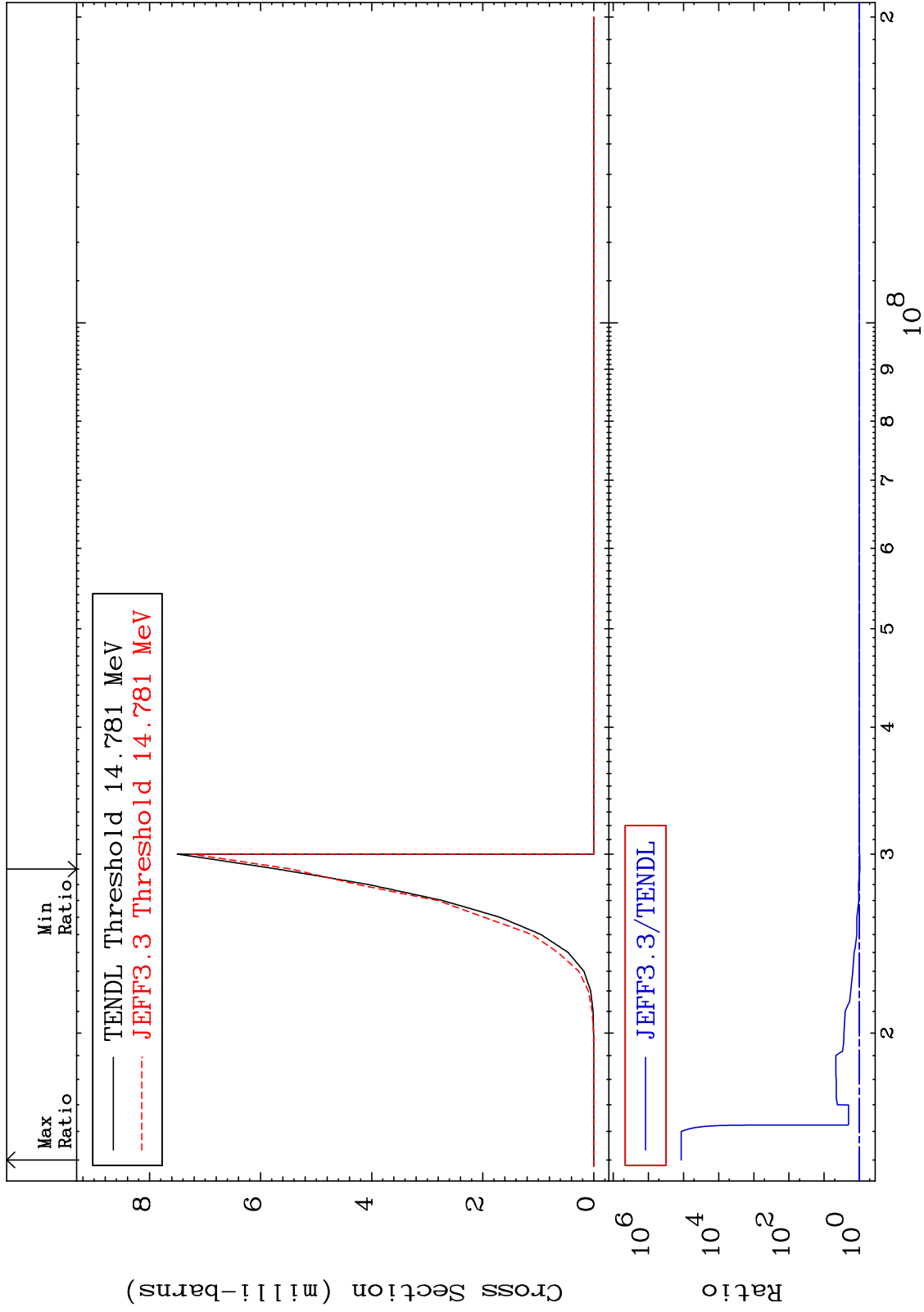
MAT 7425

(n,2n) p:73-Ta-178g

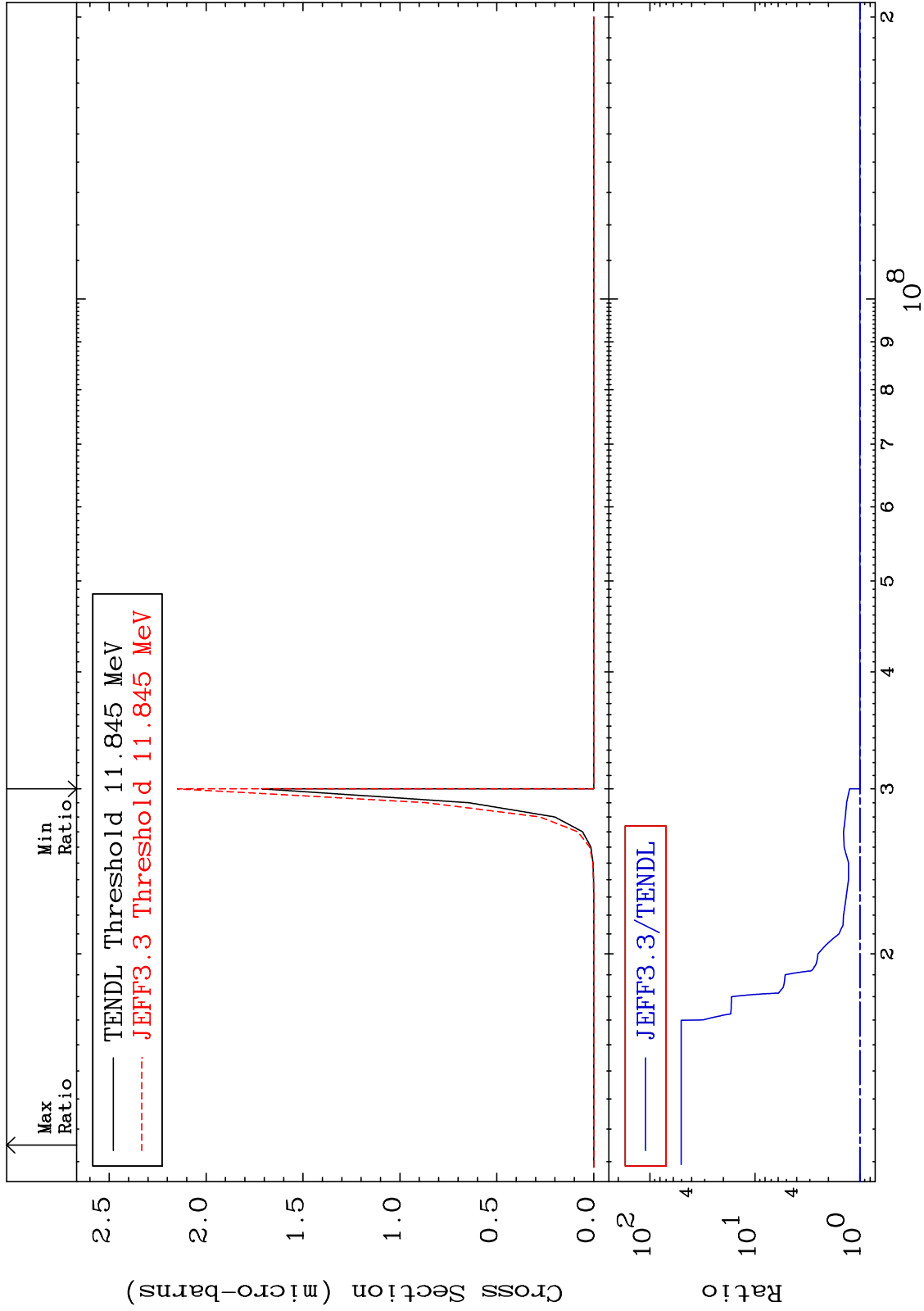
74-W -180

Radionuclide Production Cross Section 0.000 To 9999. %





Radionuclide Production Cross Section 0.000 To 4930. %

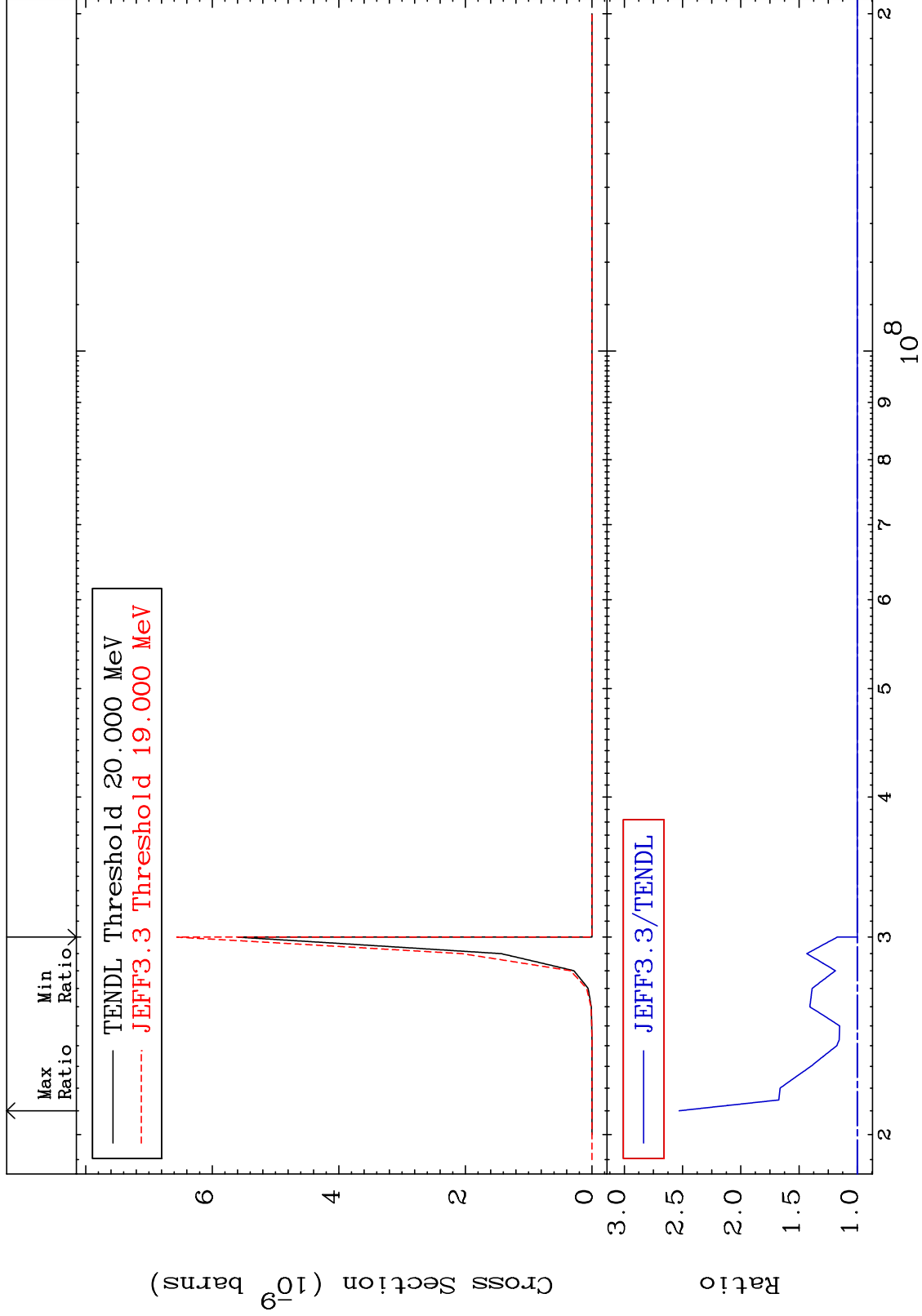


MAT 7425

(n,2n) p:72-Hf-178m5

74-W -180

Radionuclide Production Cross Section 0.000 To 152.9 %

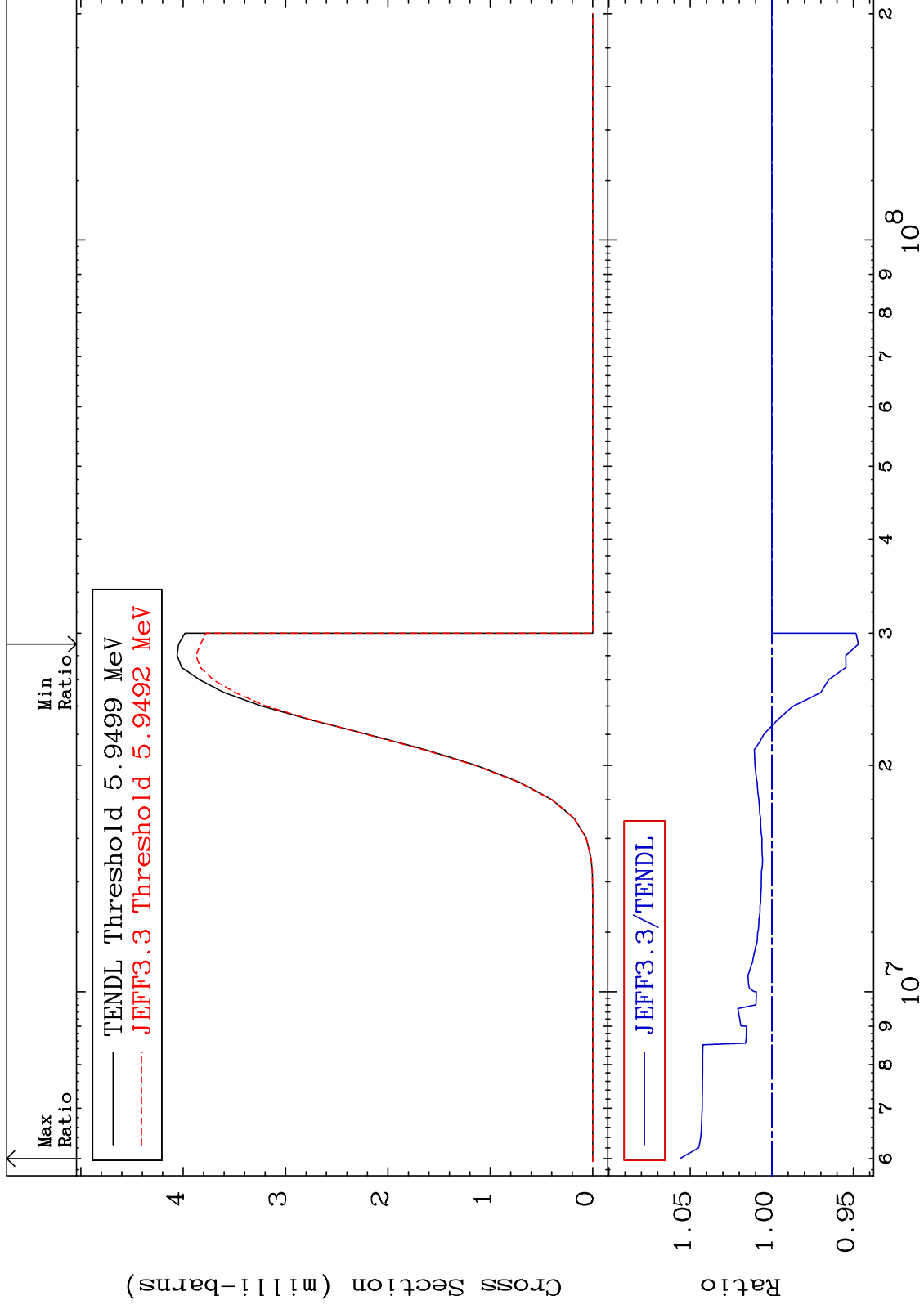


MAT 7425

(n, t): 73-Ta-178g

74-W -180

Radionuclide Production Cross Section -5.310 To 5.631 %



90

Incident Energy (eV)

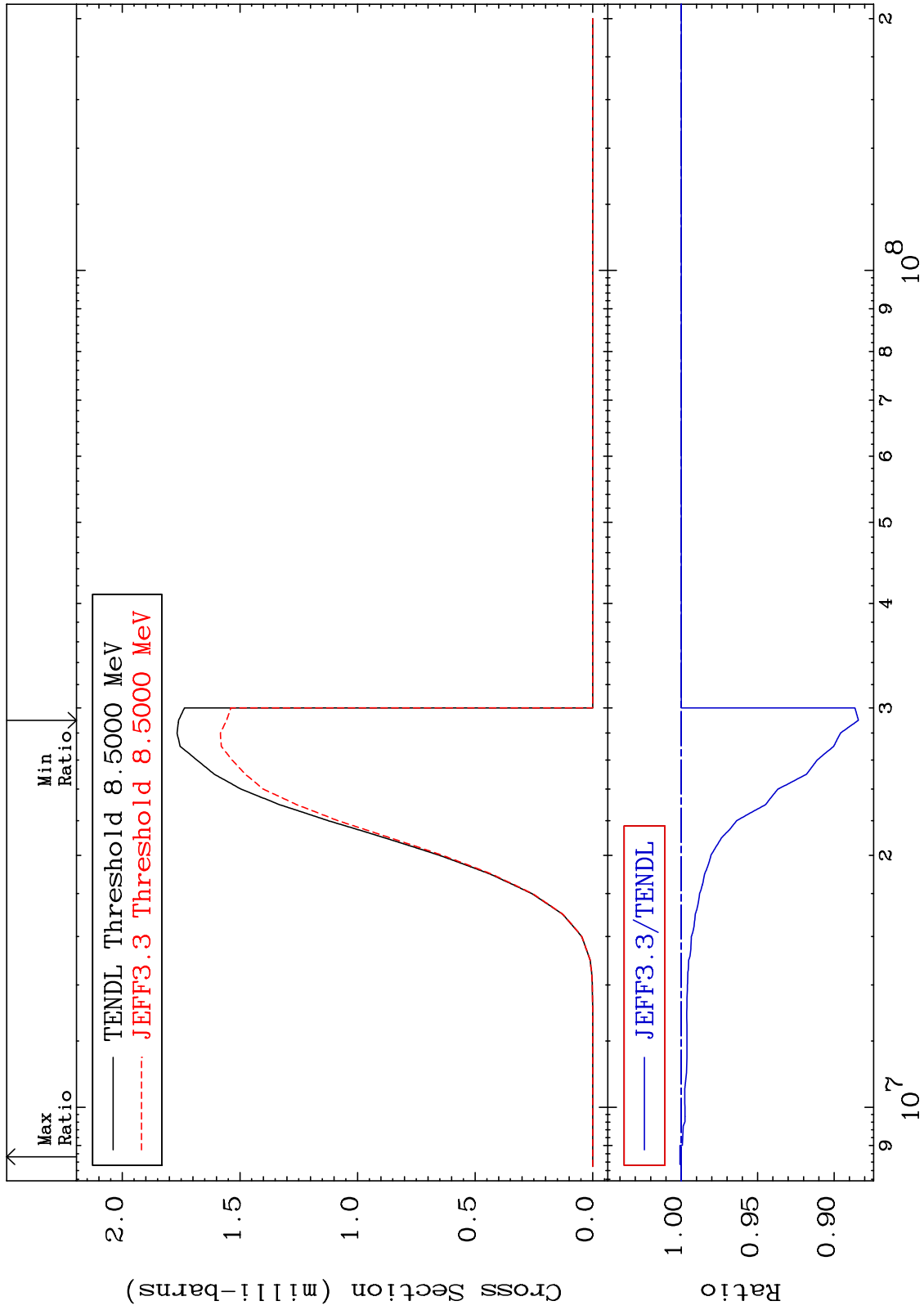
74-W -180

MAT 7425

(n, t): 73-Ta-178m1

74-W -180

Radionuclide Production Cross Section -11.59 To 0.078 %



91

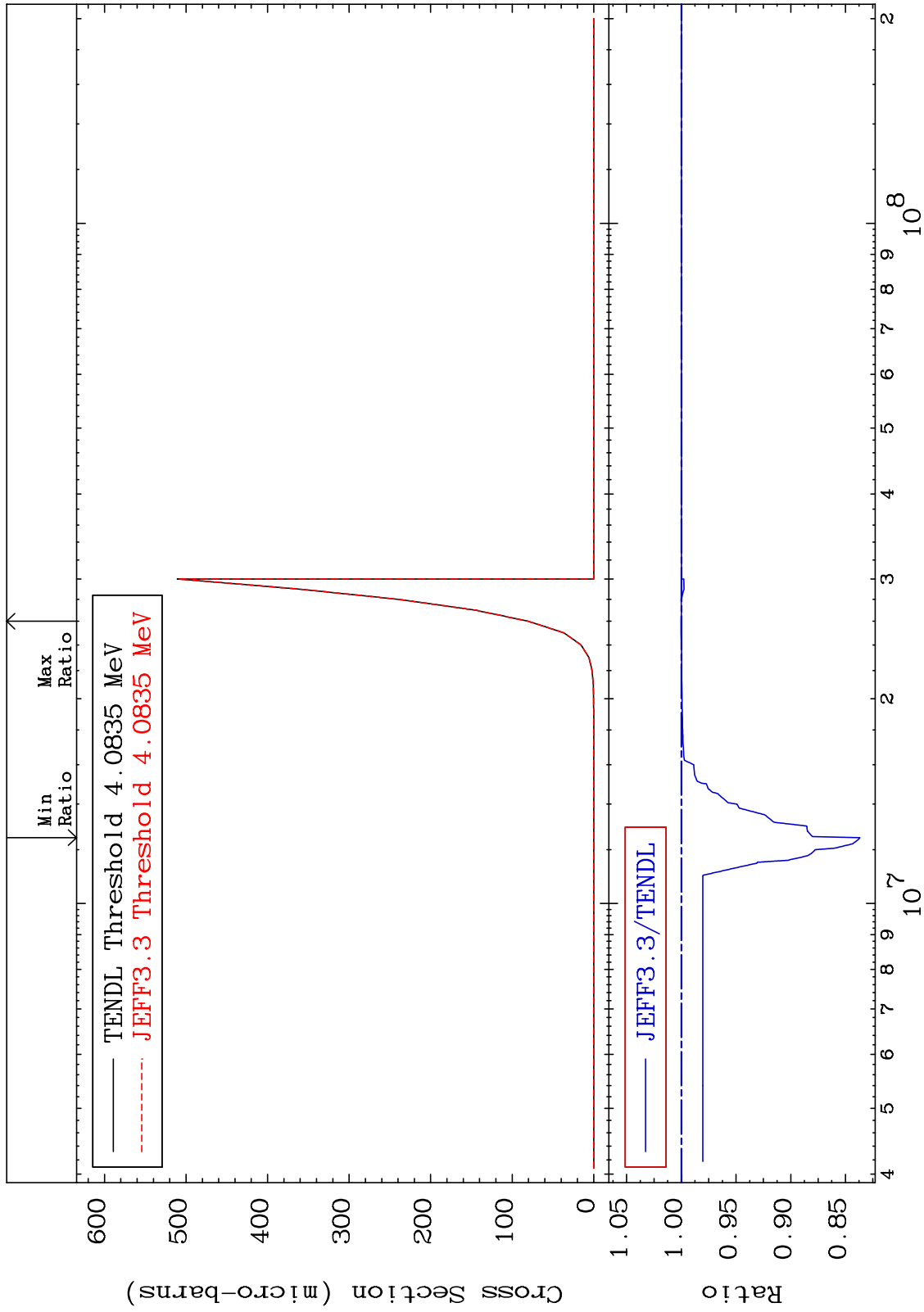
Incident Energy (eV)

74-W -180

MAT 7425

(n, He-3):72-Hf-178g
Radionuclide Production Cross Section -16.32 To 0.009 %

74-W -180



92

Incident Energy (eV)

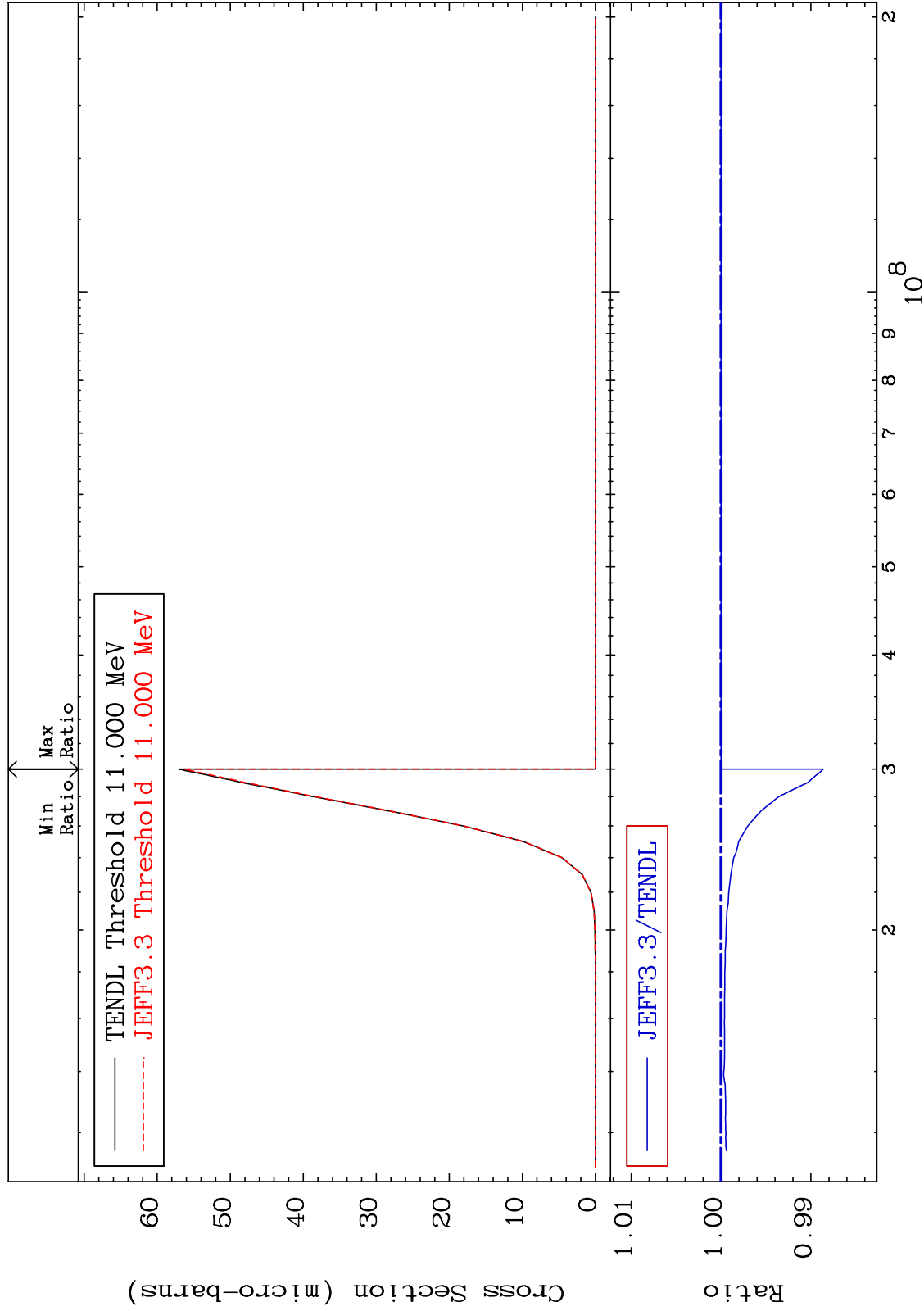
74-W -180

MAT 7425

(n, He-3) : 72-Hf-178m5

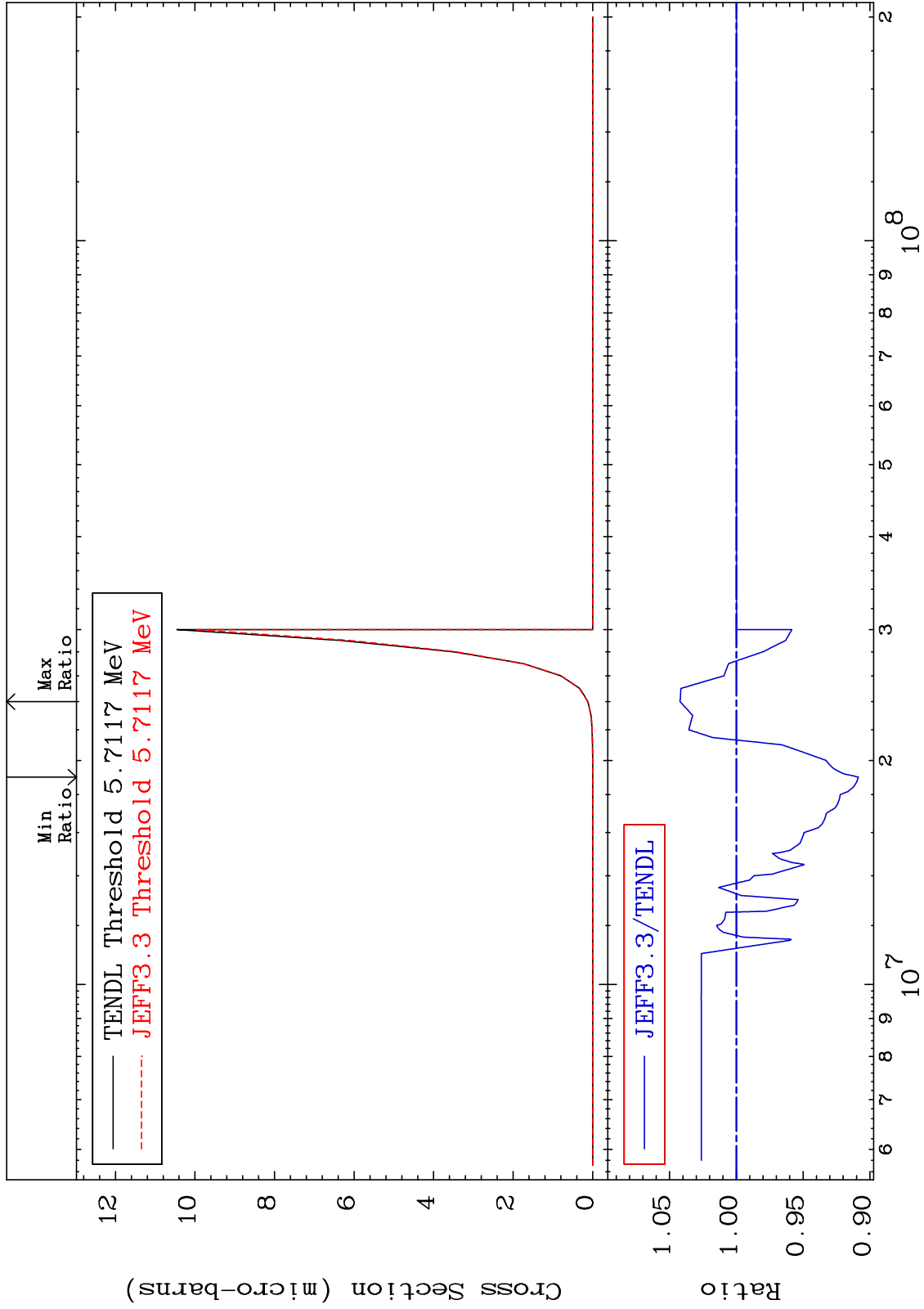
74-W -180

Radionuclide Production Cross Section -1.139 To 0.000 %



MAT 7425

(n,2p):72-Hf-179g 74-W -180
Radionuclide Production Cross Section -9.142 To 4.218 %

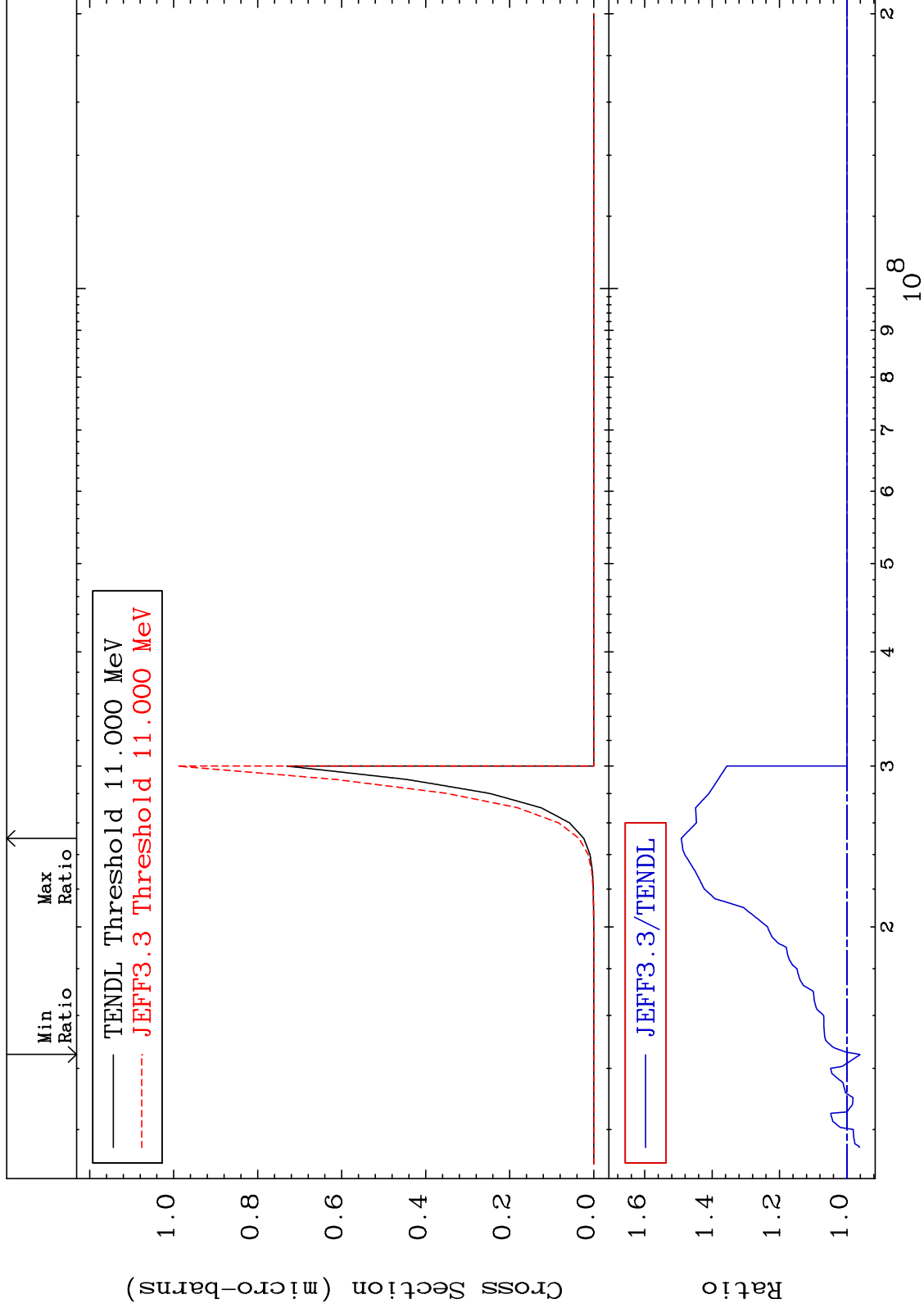


MAT 7425

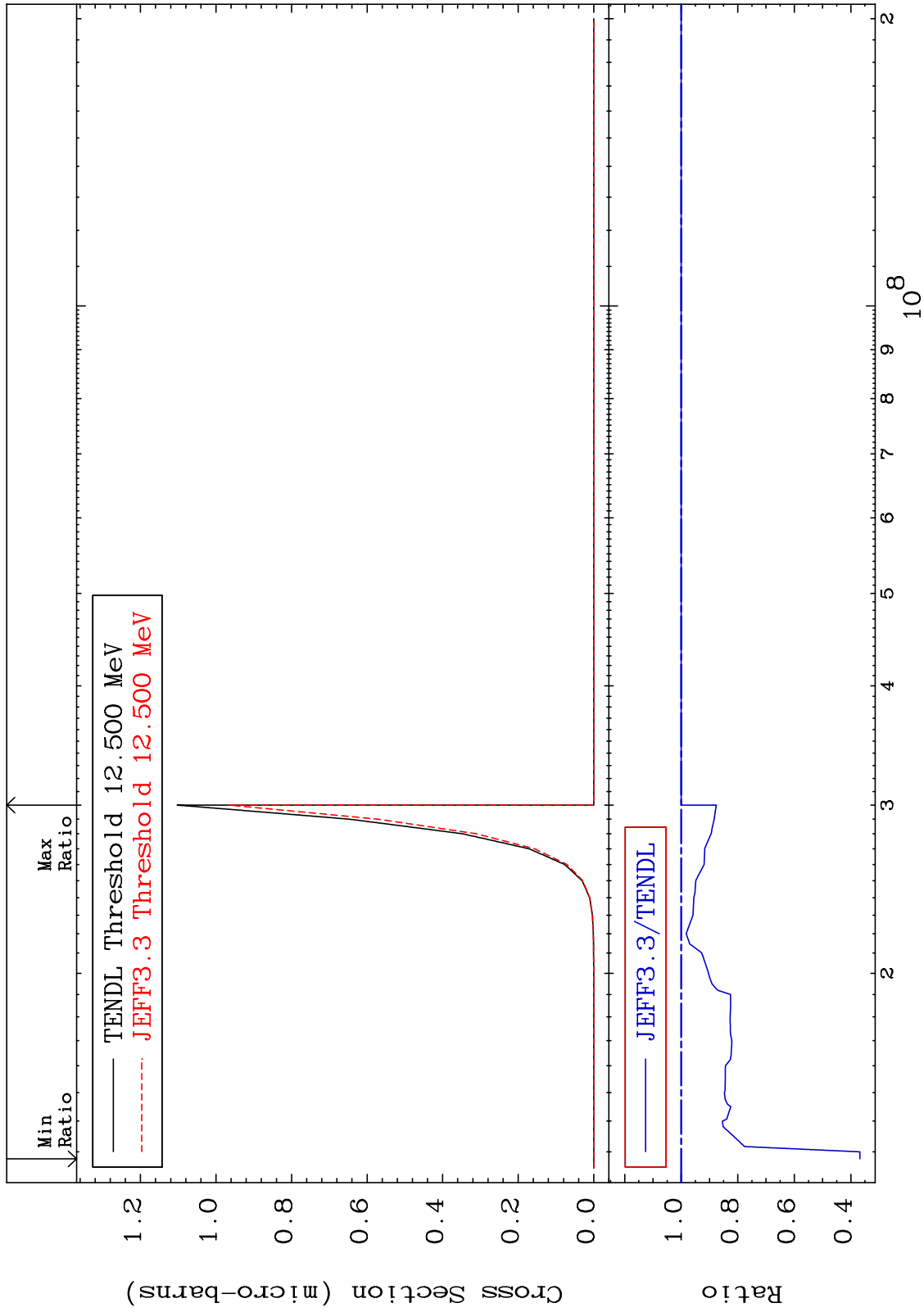
(n,2p):72-Hf-179m5

74-W -180

Radionuclide Production Cross Section -3.863 To 49.17 %



Radionuclide Production Cross Section -63.21 To 0.000 %

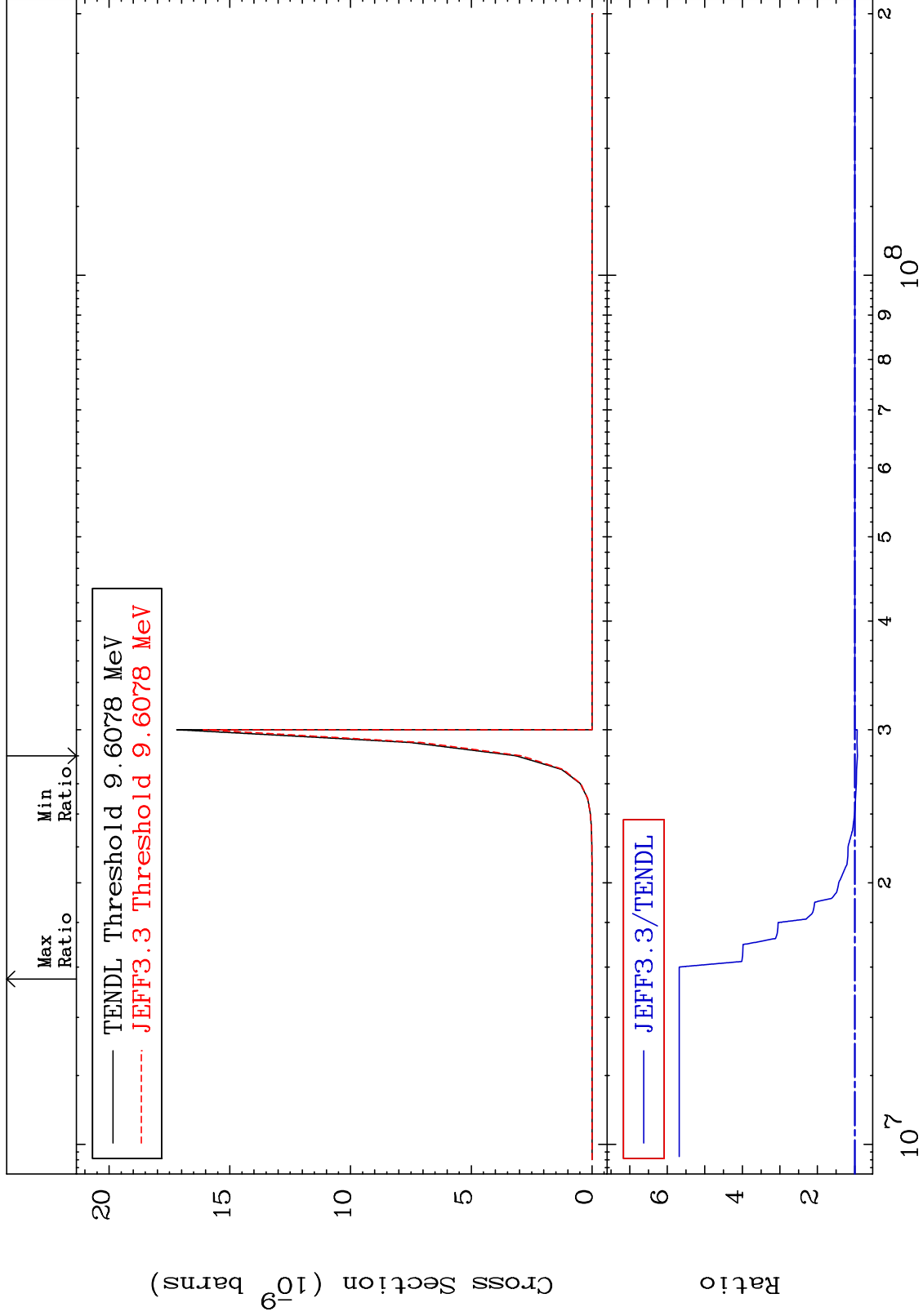


MAT 7425

(n, p) d:72-Hf-178g

74-W -180

Radionuclide Production Cross Section -7.147 To 468.0 %



Incident Energy (eV)

74-W -180

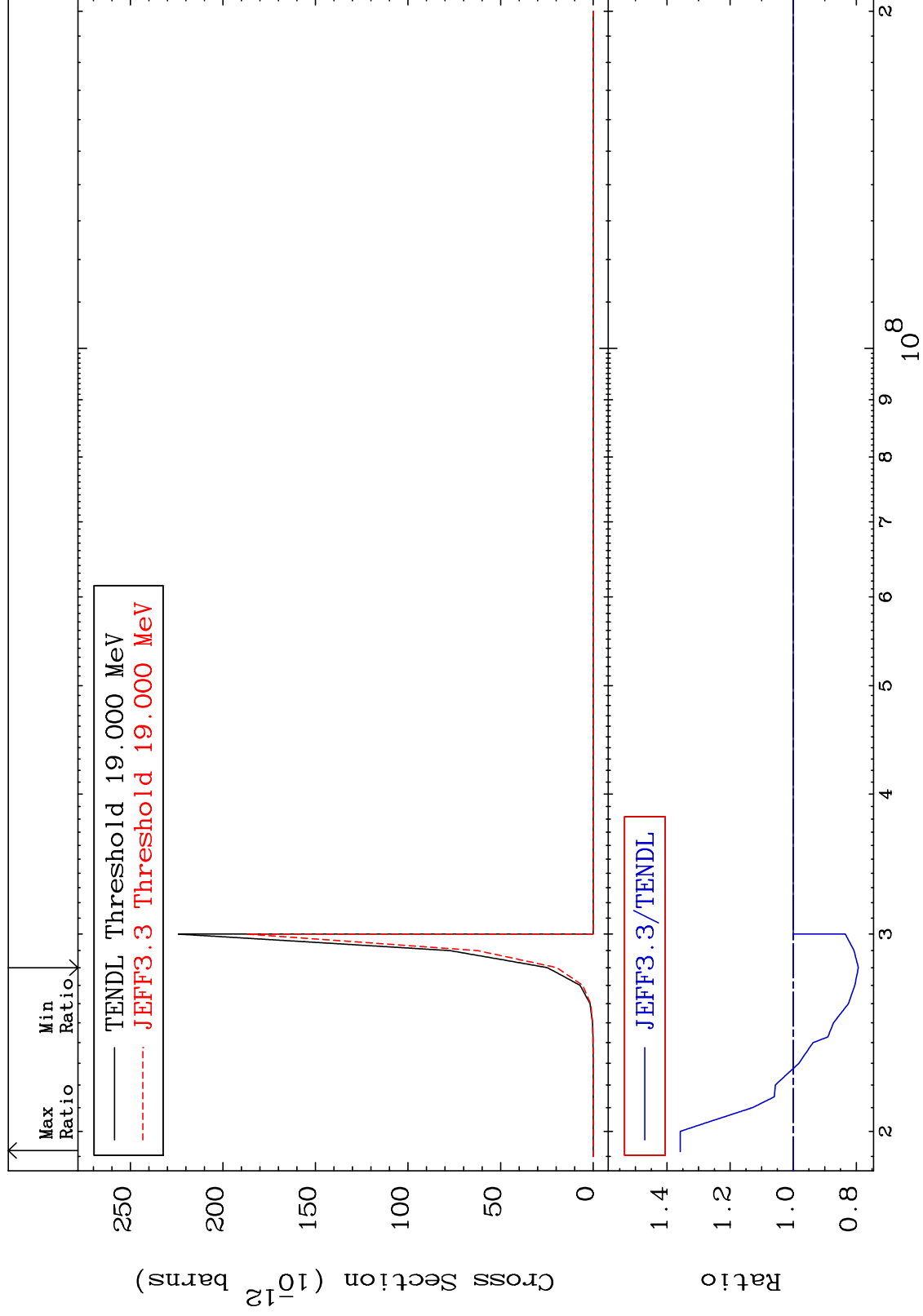
97

MAT 7425

(n, p) d:72-Hf-178m5

74-W -180

Radionuclide Production Cross Section -20.66 To 35.79 %



98

Incident Energy (eV)

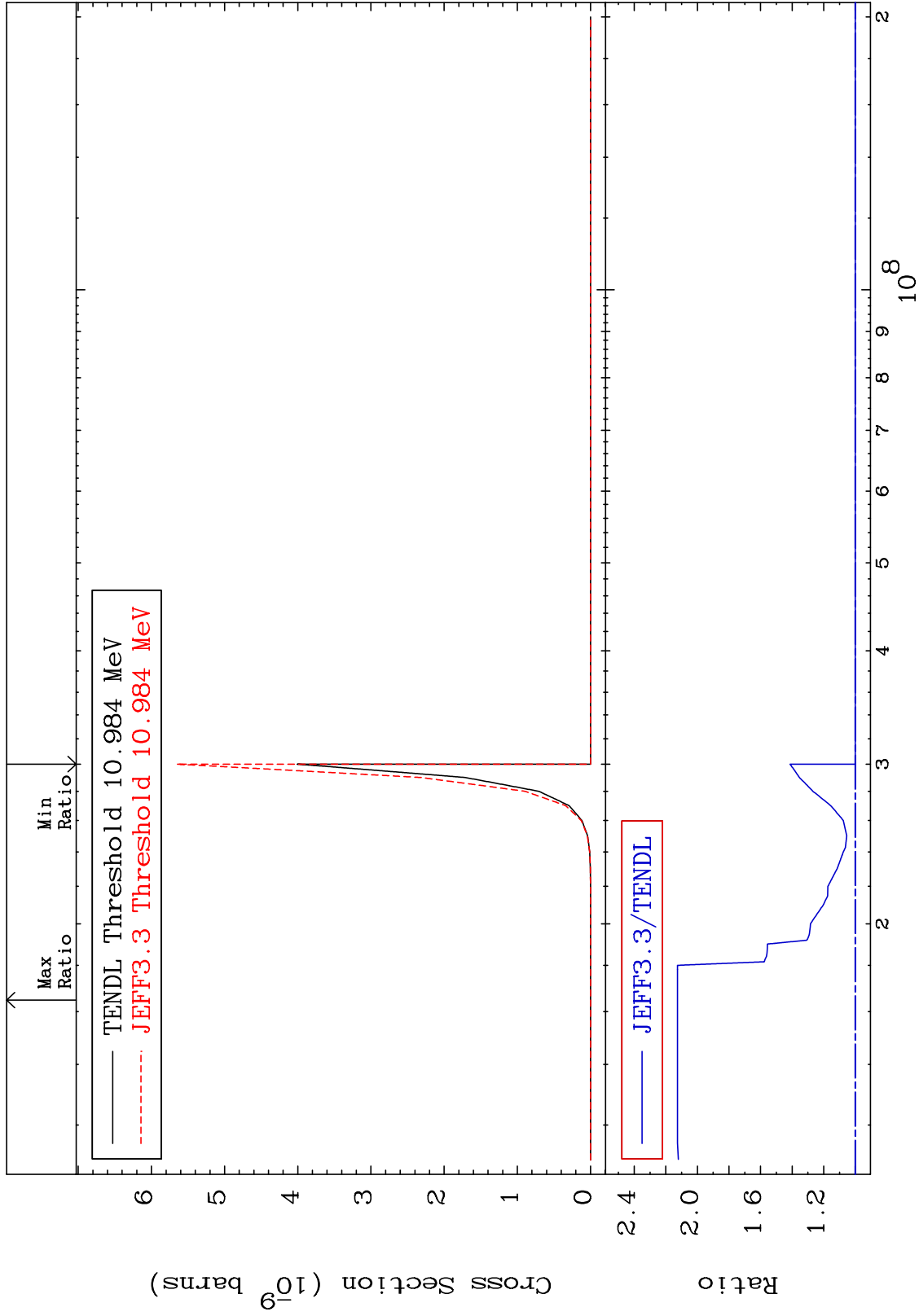
74-W -180

MAT 7425

(n, p) t:72-Hf-177g

74-W -180

Radionuclide Production Cross Section 0.000 To 112.6 %

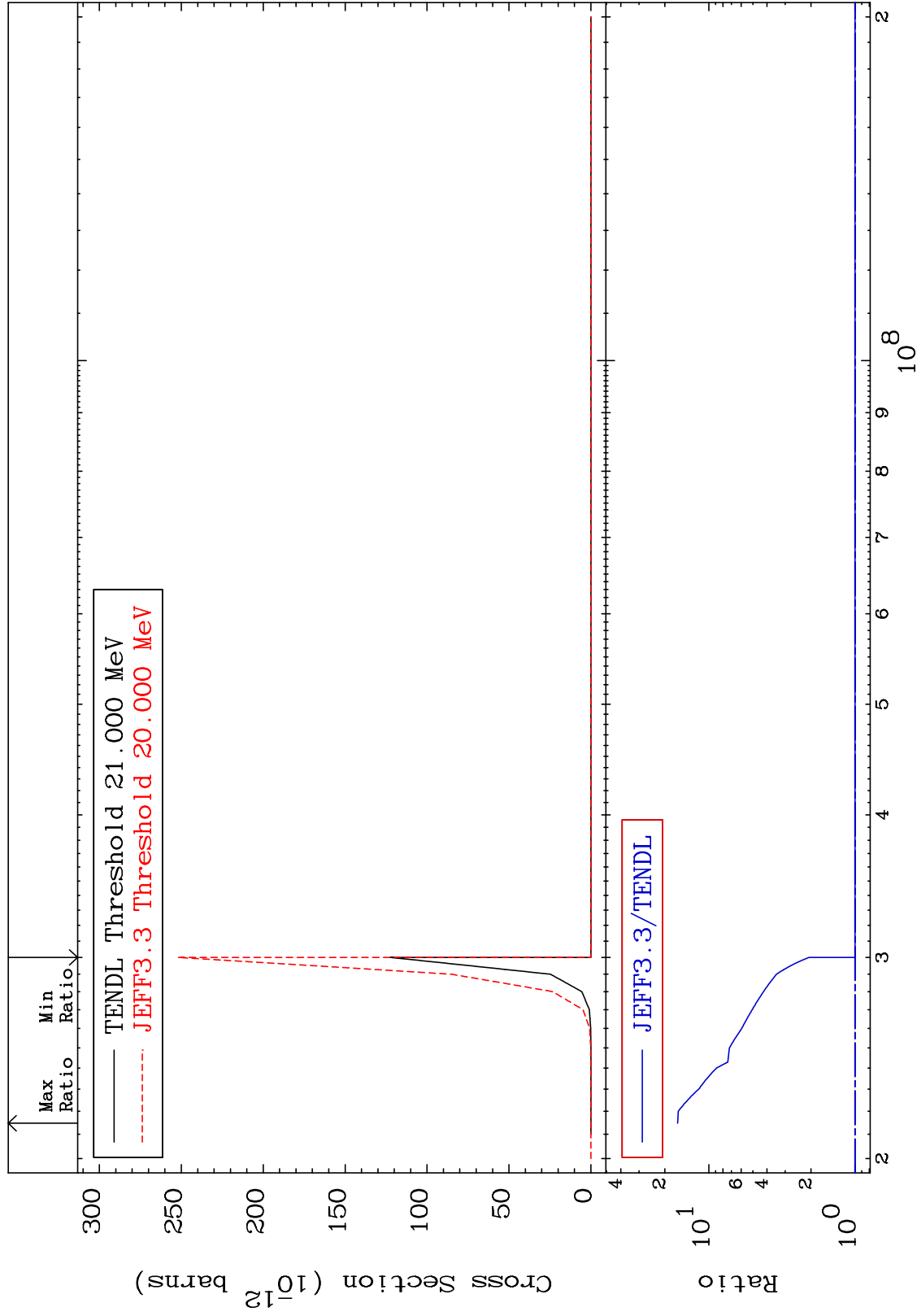


MAT 7425

(n, p) t:72-Hf-177m10

74-W -180

Radionuclide Production Cross Section 0.000 To 1531. %



100

Incident Energy (eV)

74-W -180