

Program Complot  
(Version 2018-1)

by

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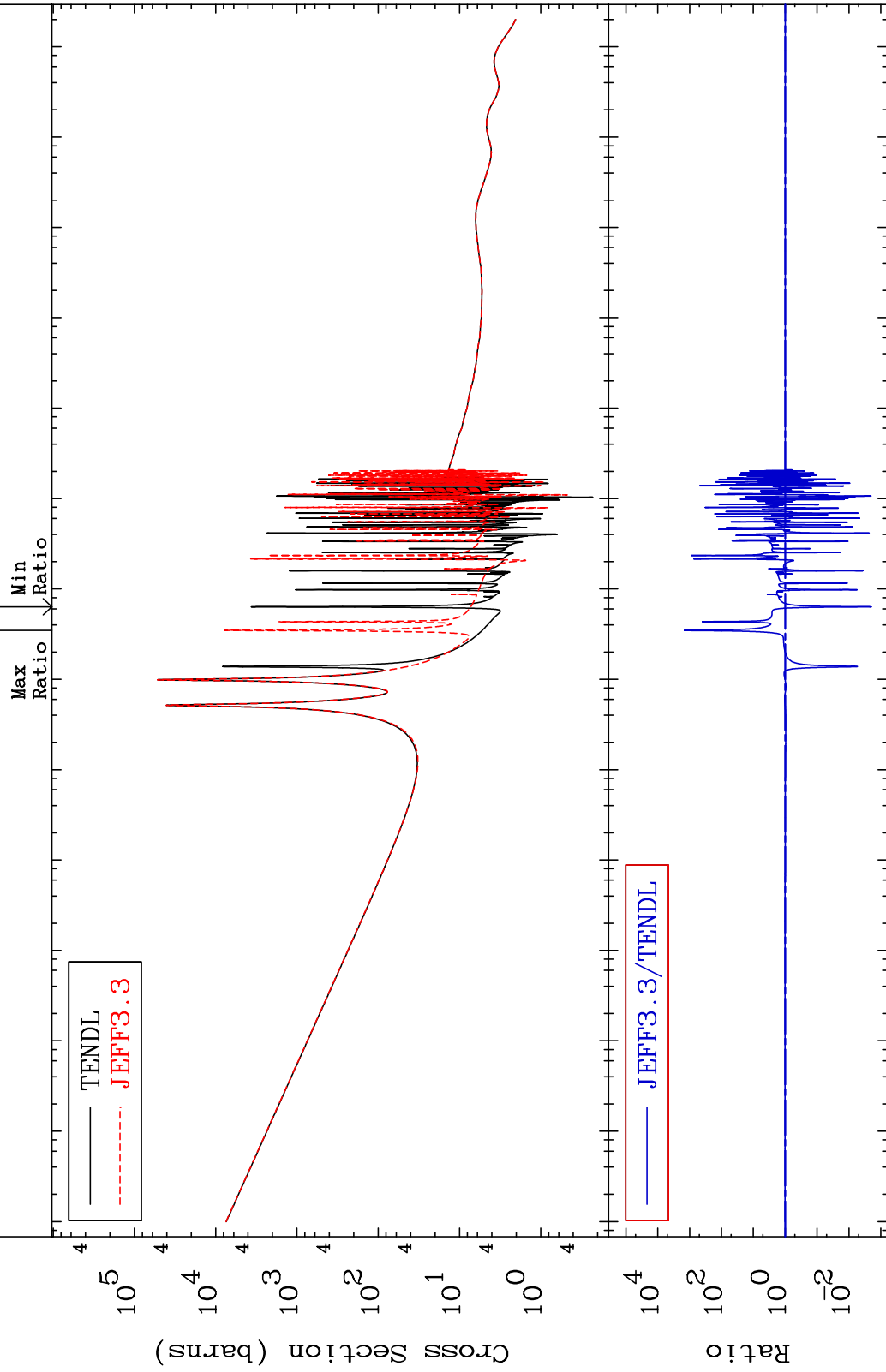
Press Mouse Button to Start

MAT 5425

54-Xe-124

-99.80 To 9999. %

Total  
Cross Section



54-Xe-124

Incident Energy (eV)

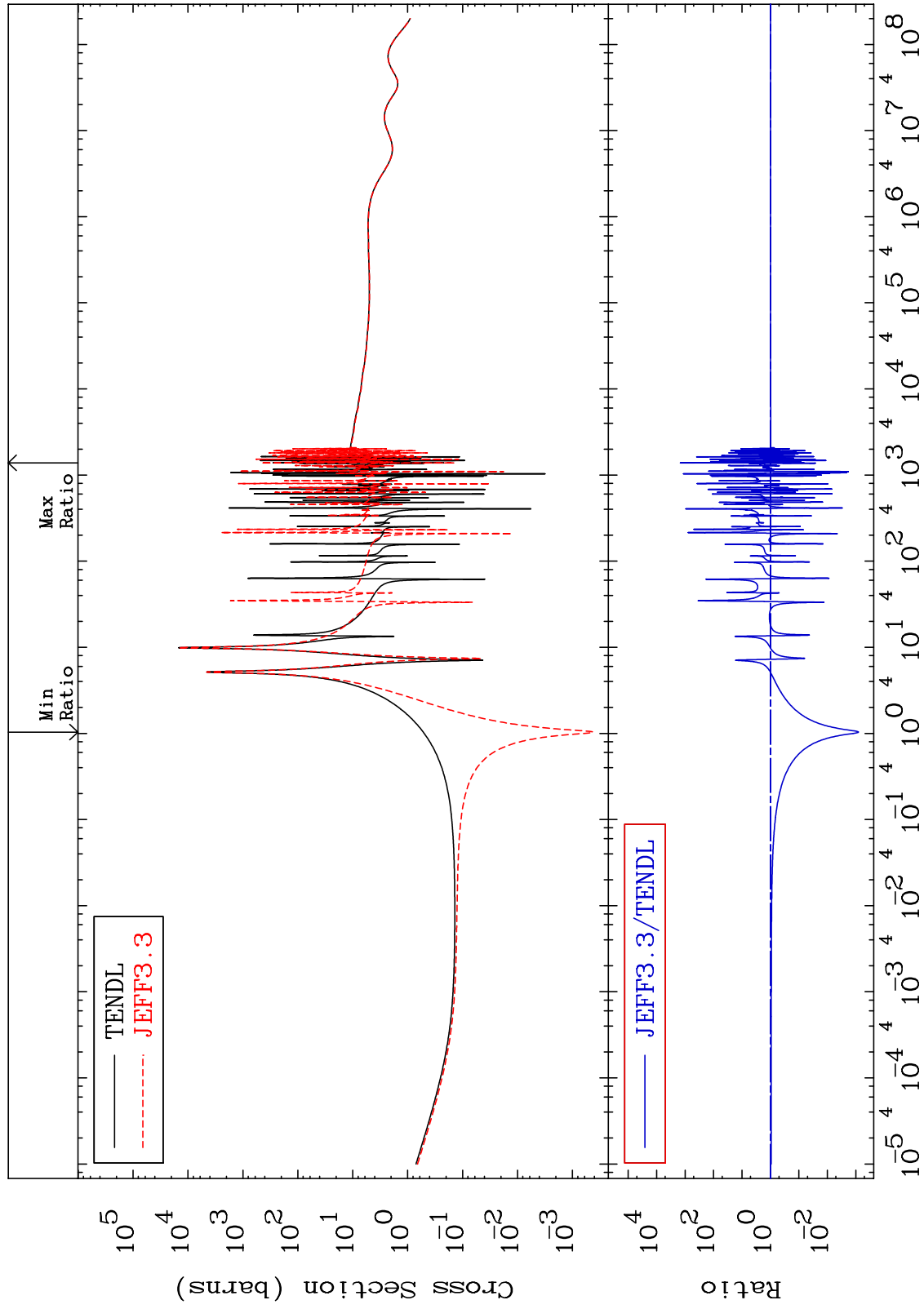
MAT 5425

Elastic

54-Xe-124

-99.92 To 9999. %

Cross Section



2

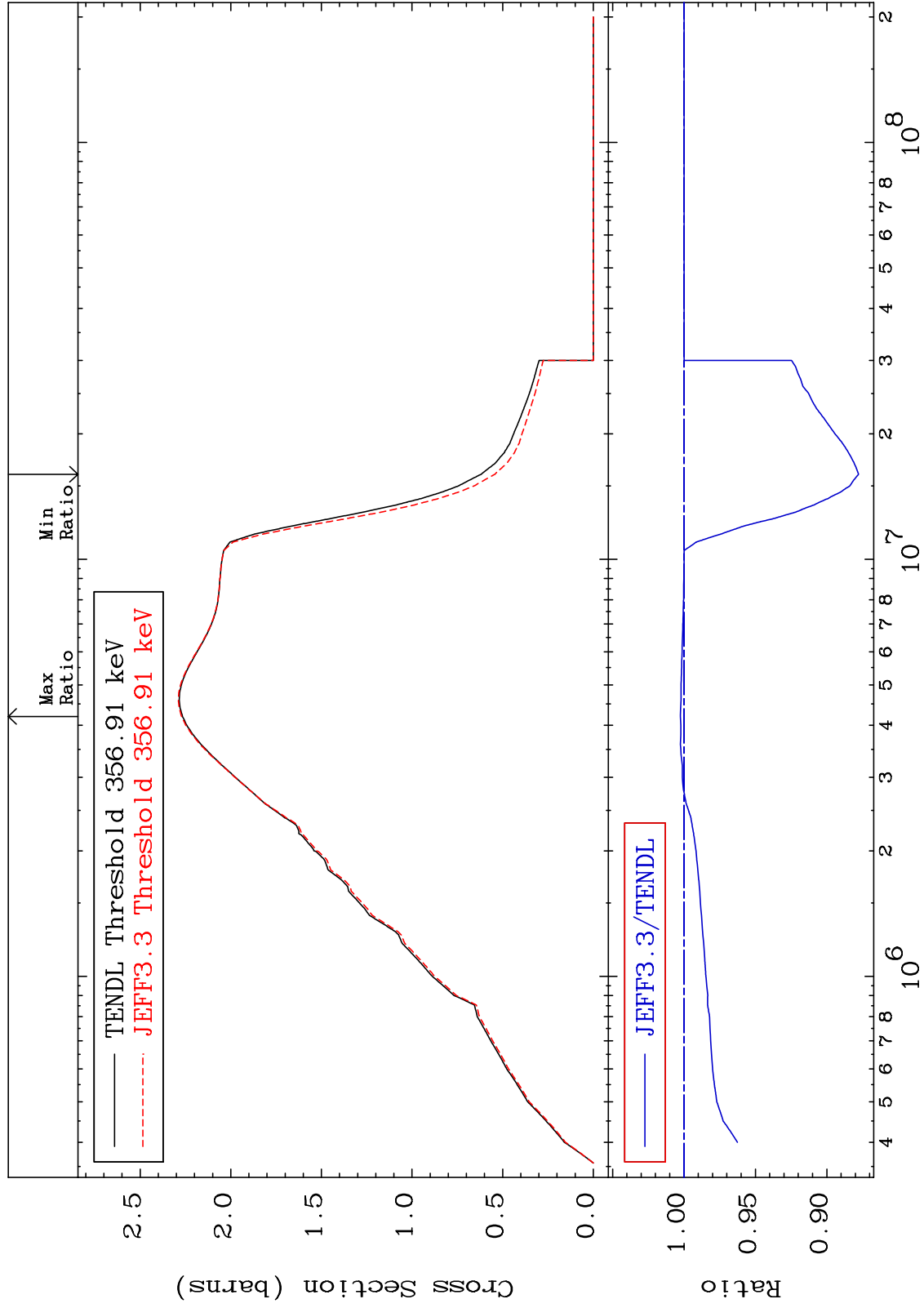
Incident Energy (eV)

54-Xe-124

MAT 5425

54-Xe-124  
-12.22 To 0.248 %

Inelastic  
Cross Section



3

Incident Energy (eV)

54-Xe-124

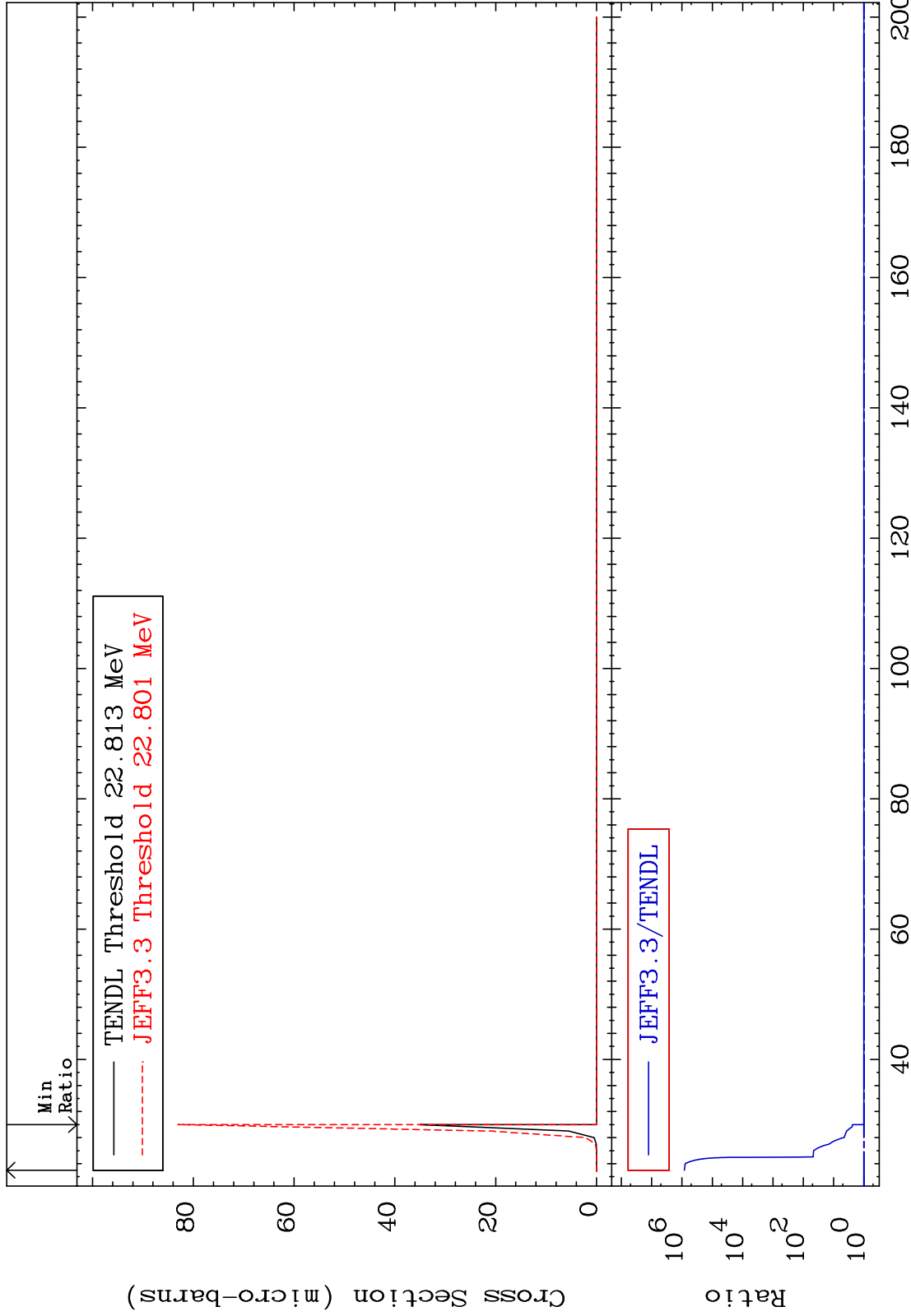
MAT 5425

(n,2n) d

54-Xe-124

Cross Section

0.000 To 9999. %



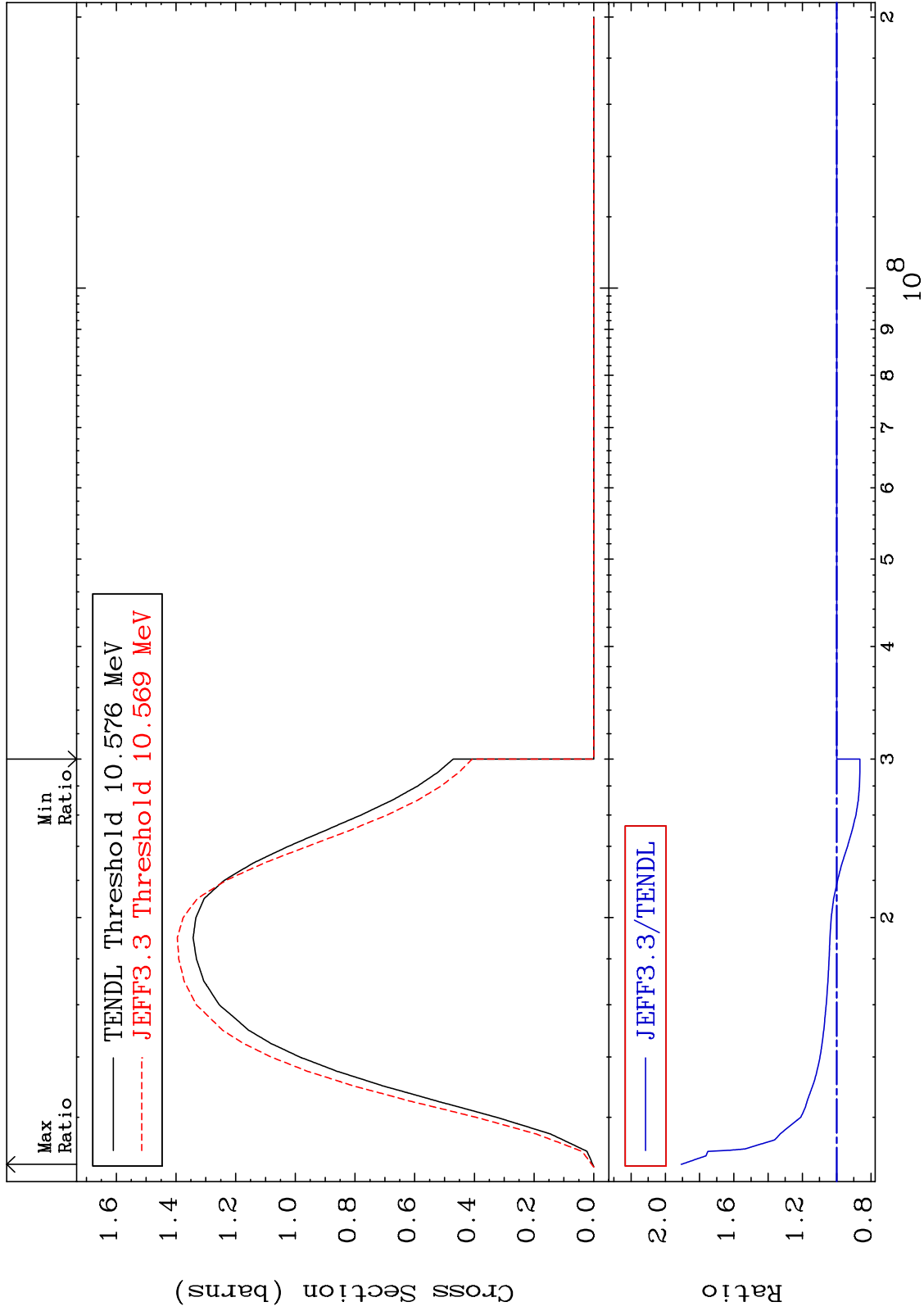
MAT 5425

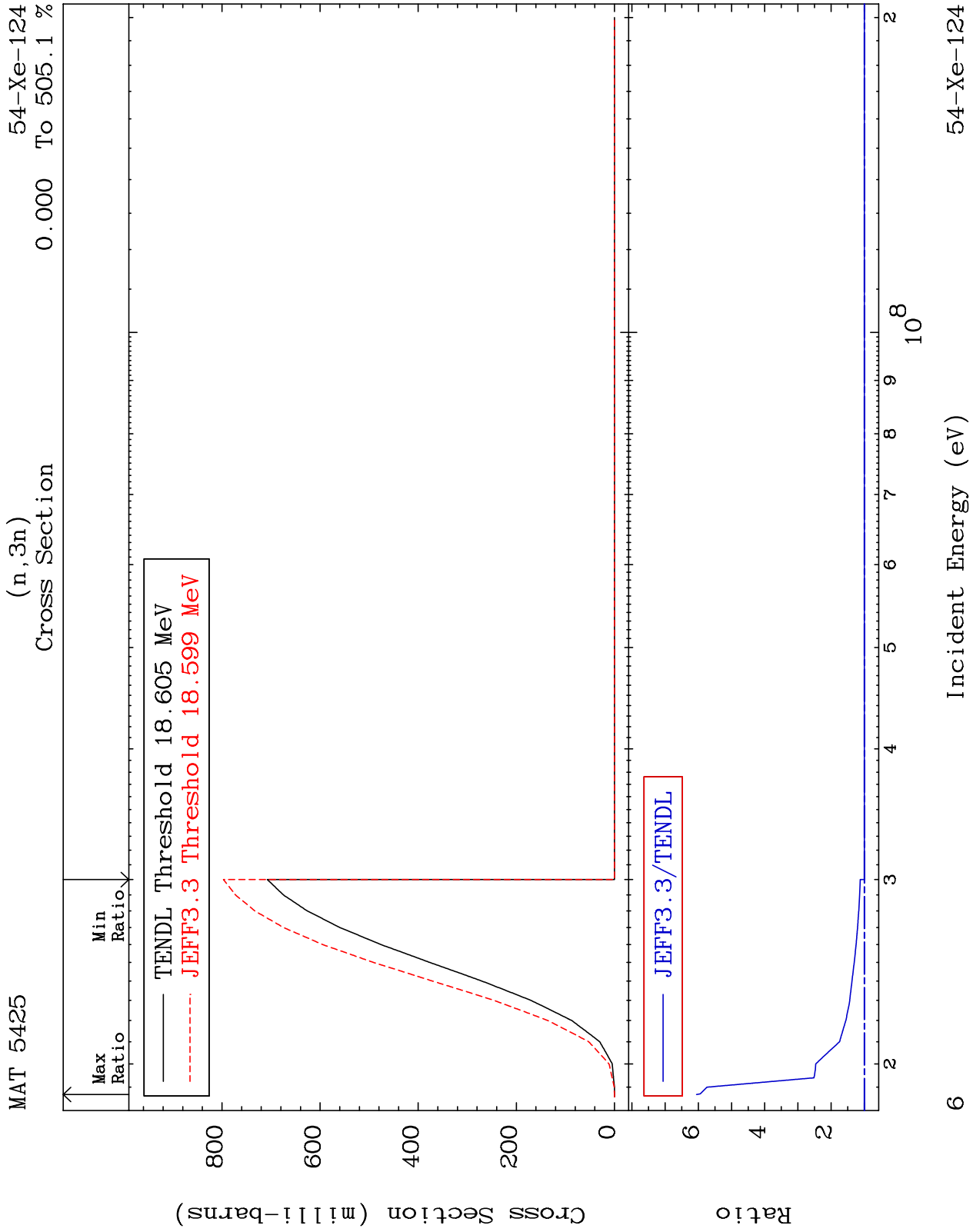
(n,2n)

54-Xe-124

Cross Section

-13.58 To 90.72 %





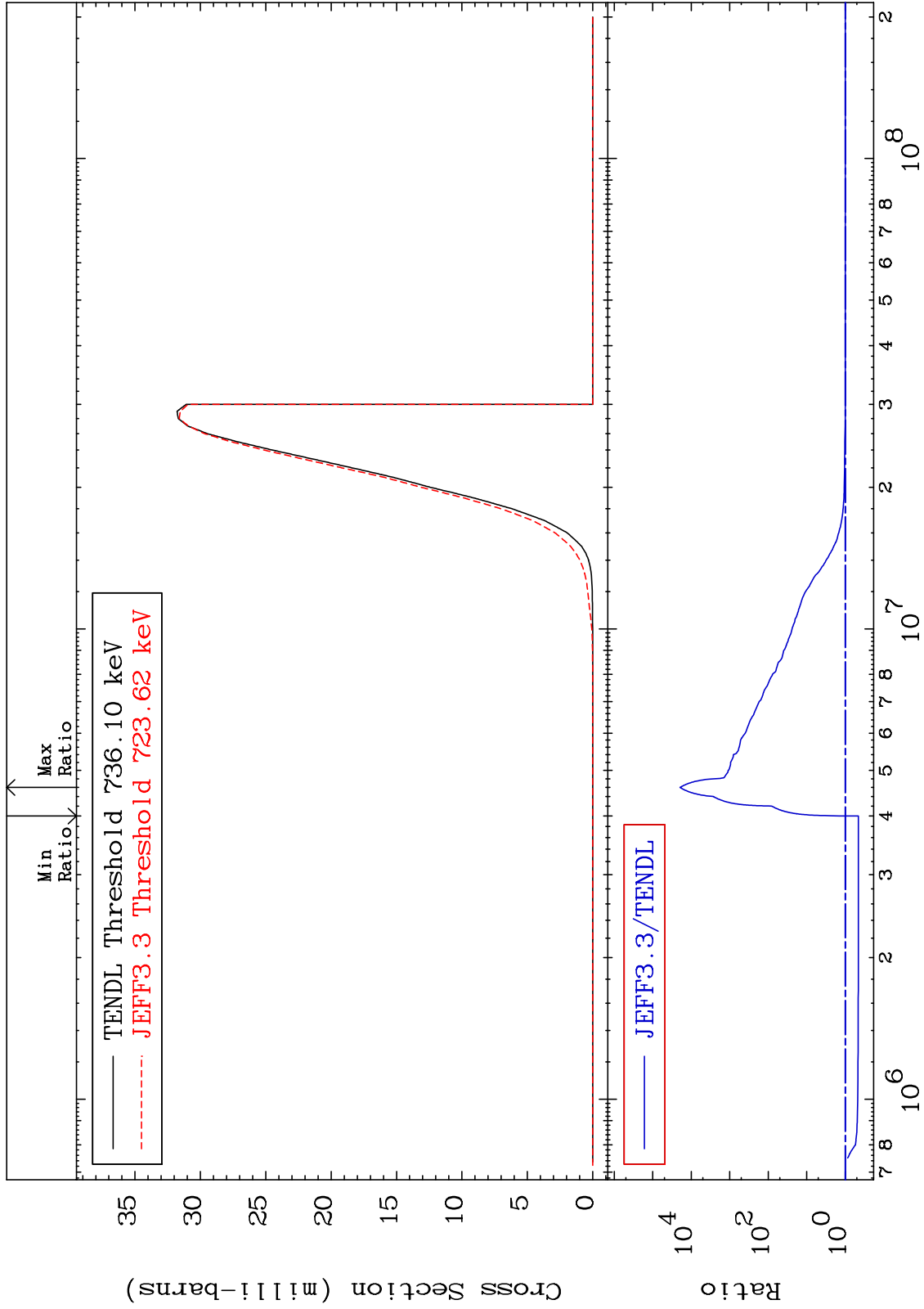
MAT 5425

(n, n')  $\alpha$

54-Xe-124

-54.62 To 9999. %

Cross Section



7

Incident Energy (eV)

54-Xe-124



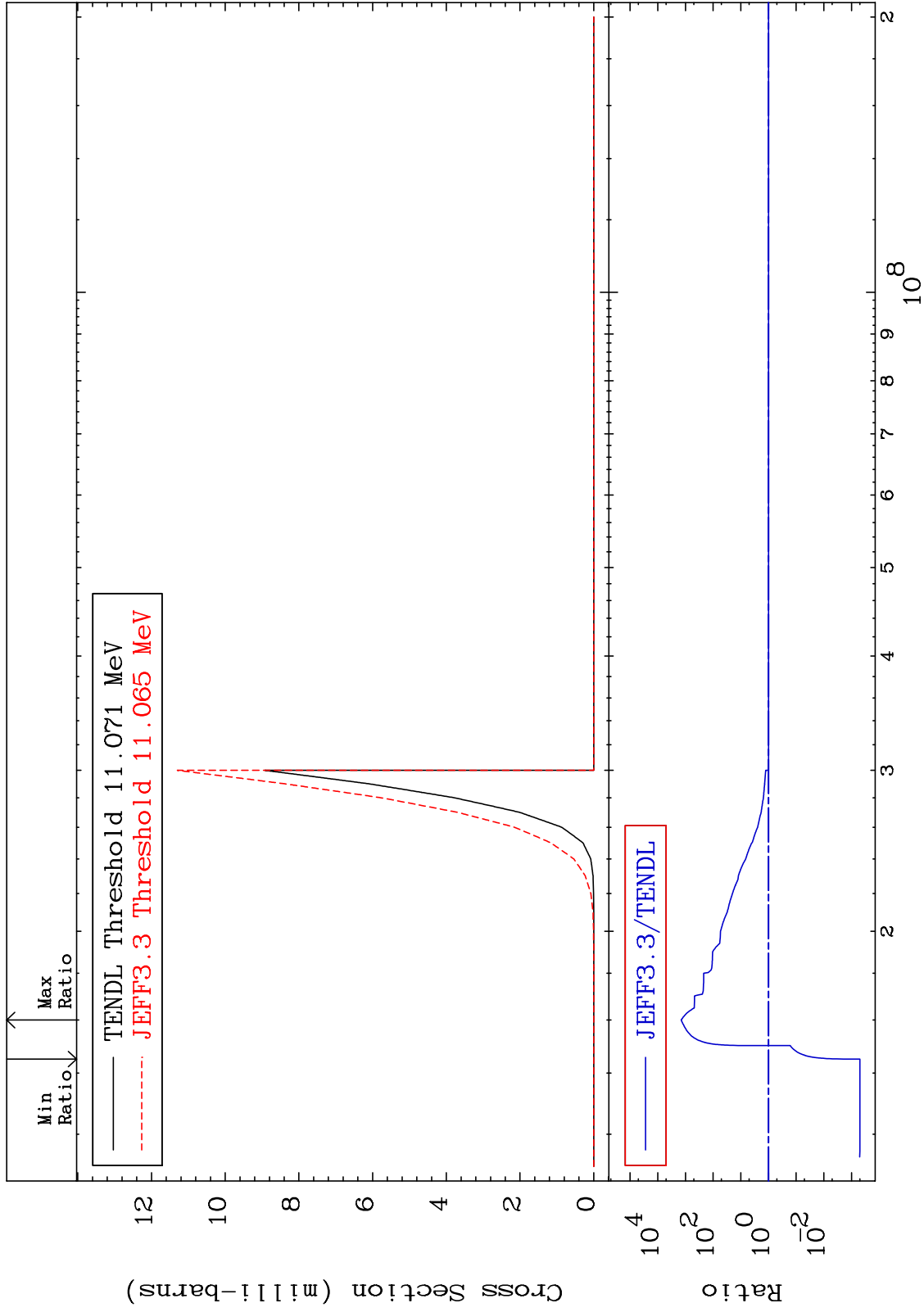
MAT 5425

(n,2n)  $\alpha$

54-Xe-124

-99.95 To 9999. %

Cross Section



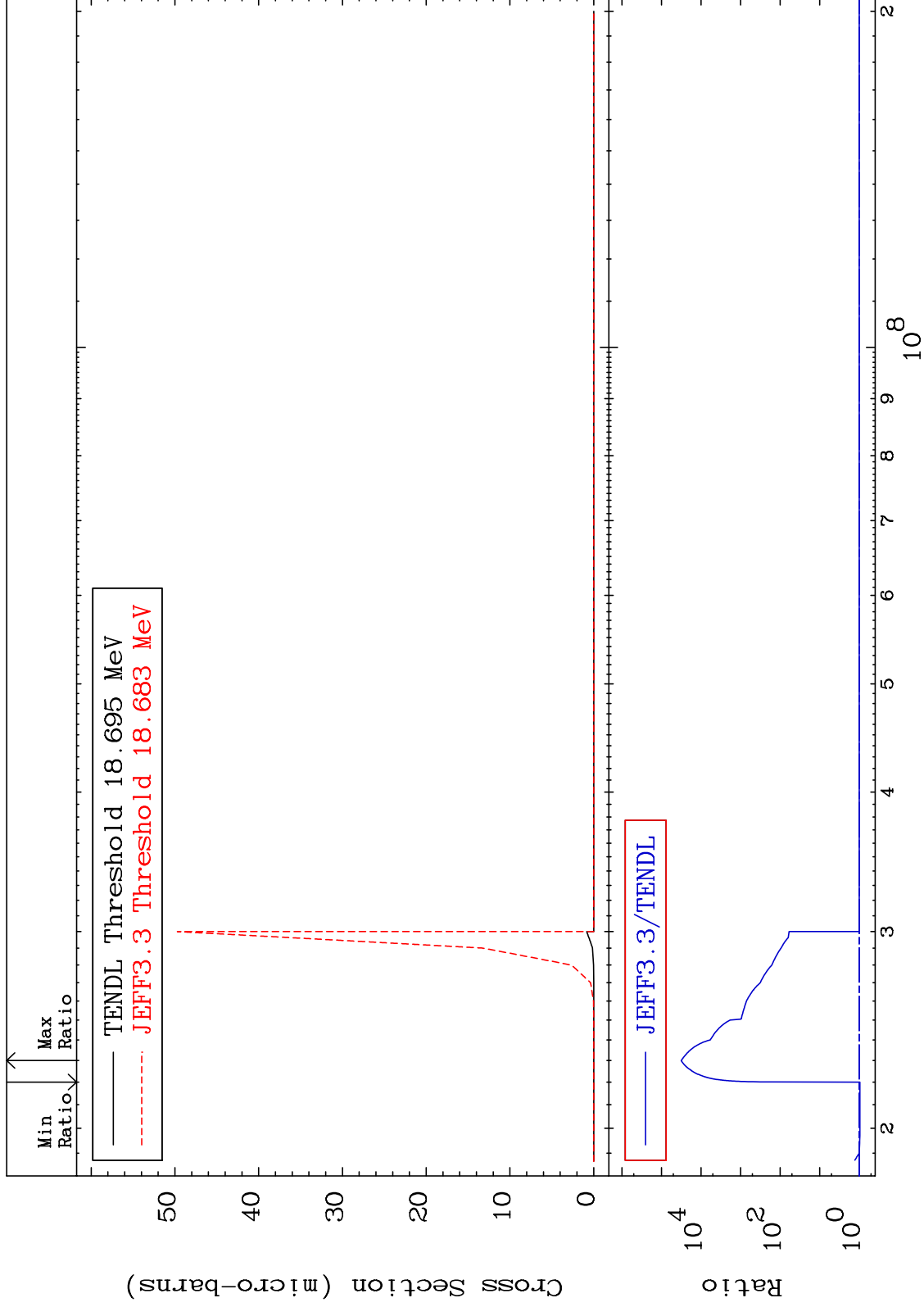
MAT 5425

(n,3n)  $\alpha$

54-Xe-124

Cross Section

-4.513 To 9999. %



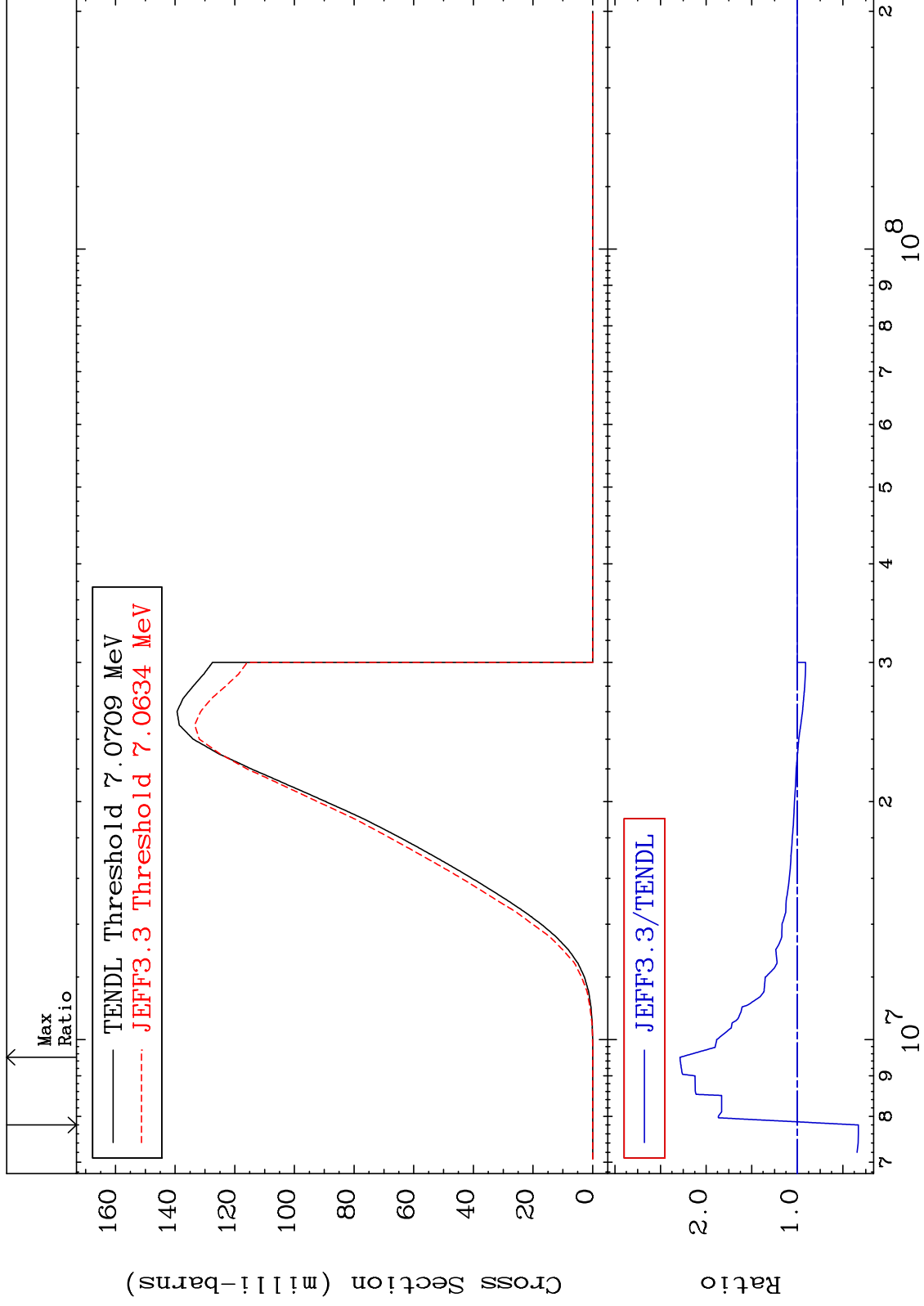
MAT 5425

(n,n') p

54-Xe-124

Cross Section

-67.00 To 128.6 %



54-Xe-124

Incident Energy (eV)

10

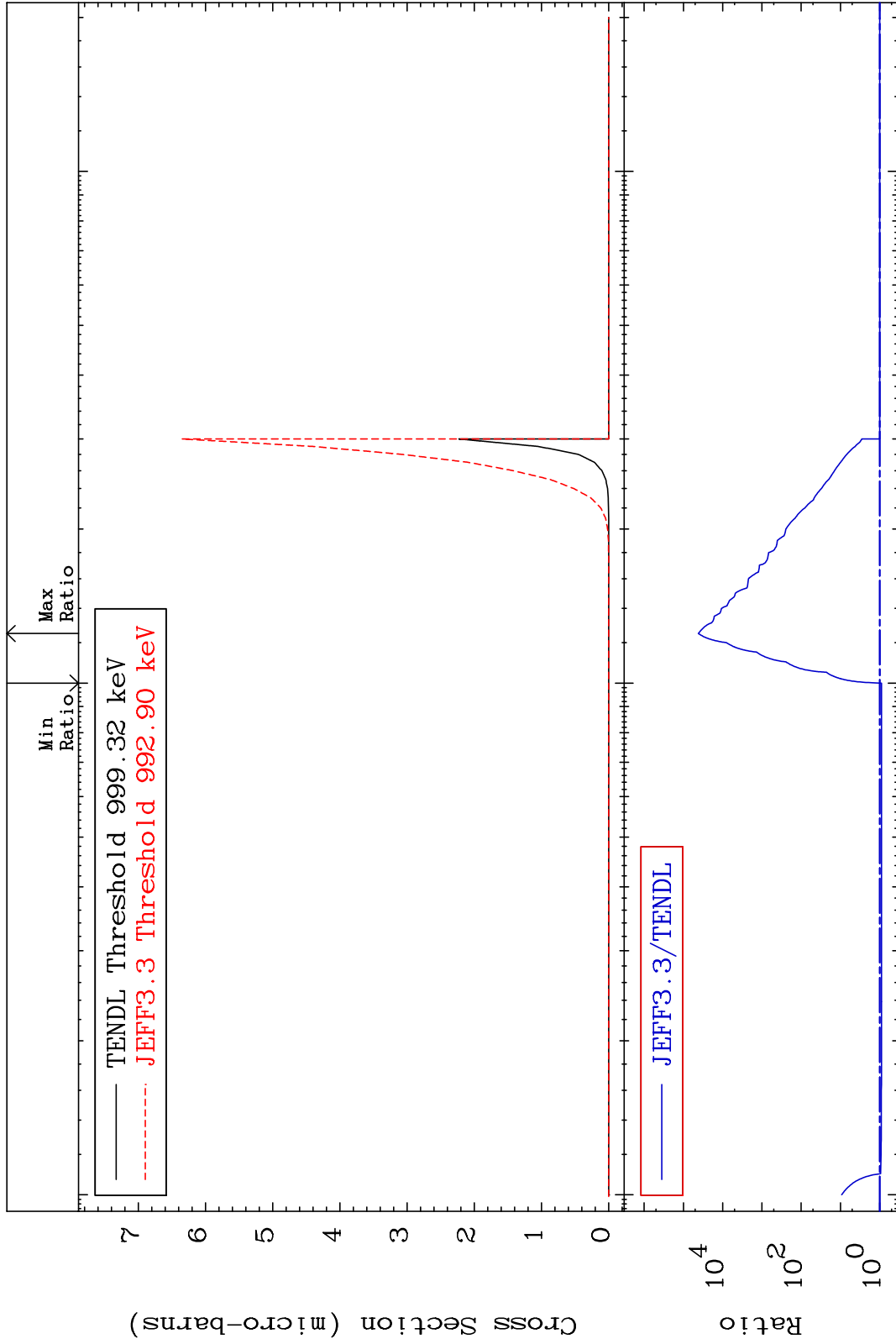
MAT 5425

(n, n')  $2\alpha$

54-Xe-124

-10.49 To 9999. %

Cross Section



11

Incident Energy (eV)

54-Xe-124

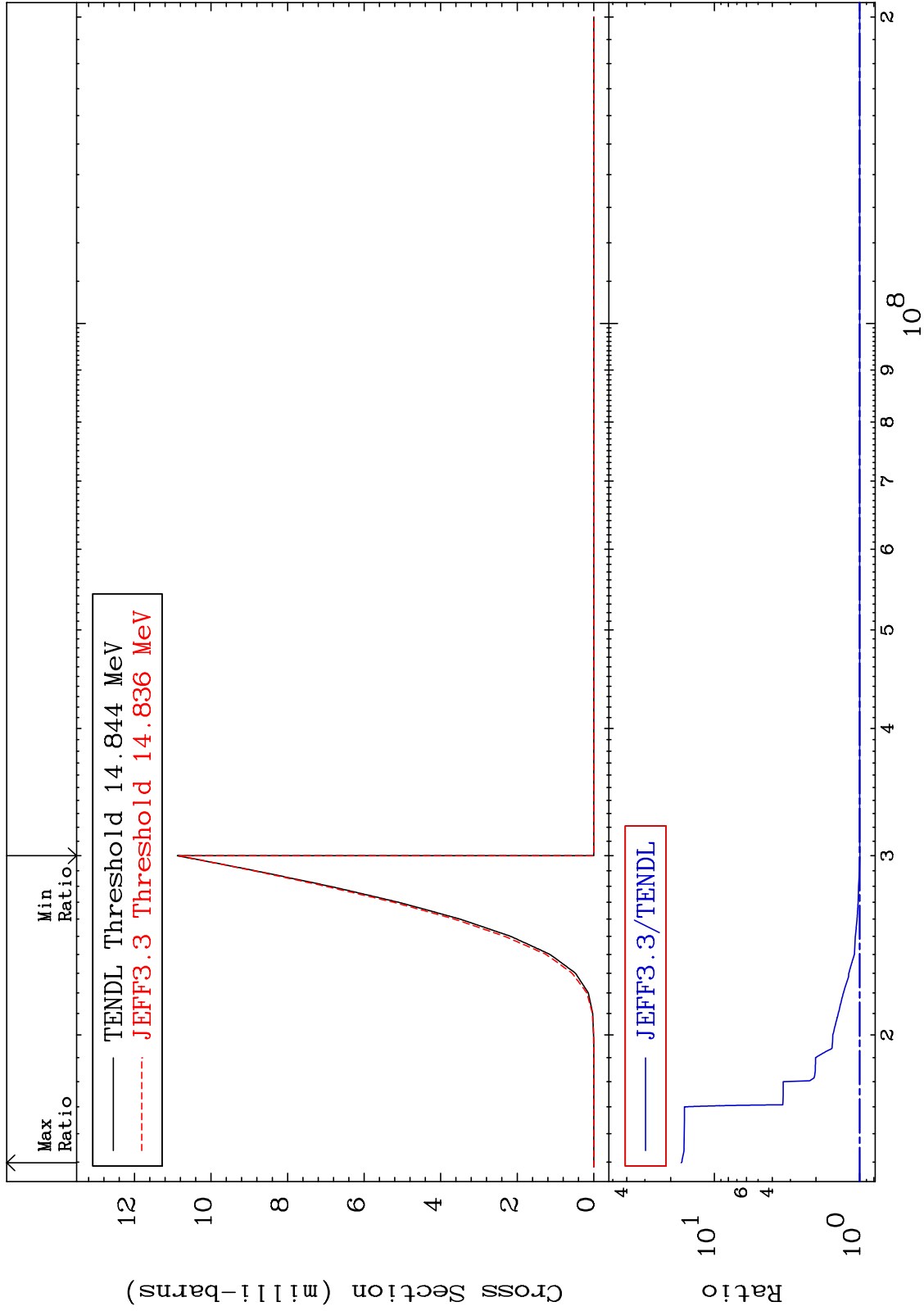
MAT 5425

(n,n') d

54-Xe-124

Cross Section

-0.377 To 1590. %



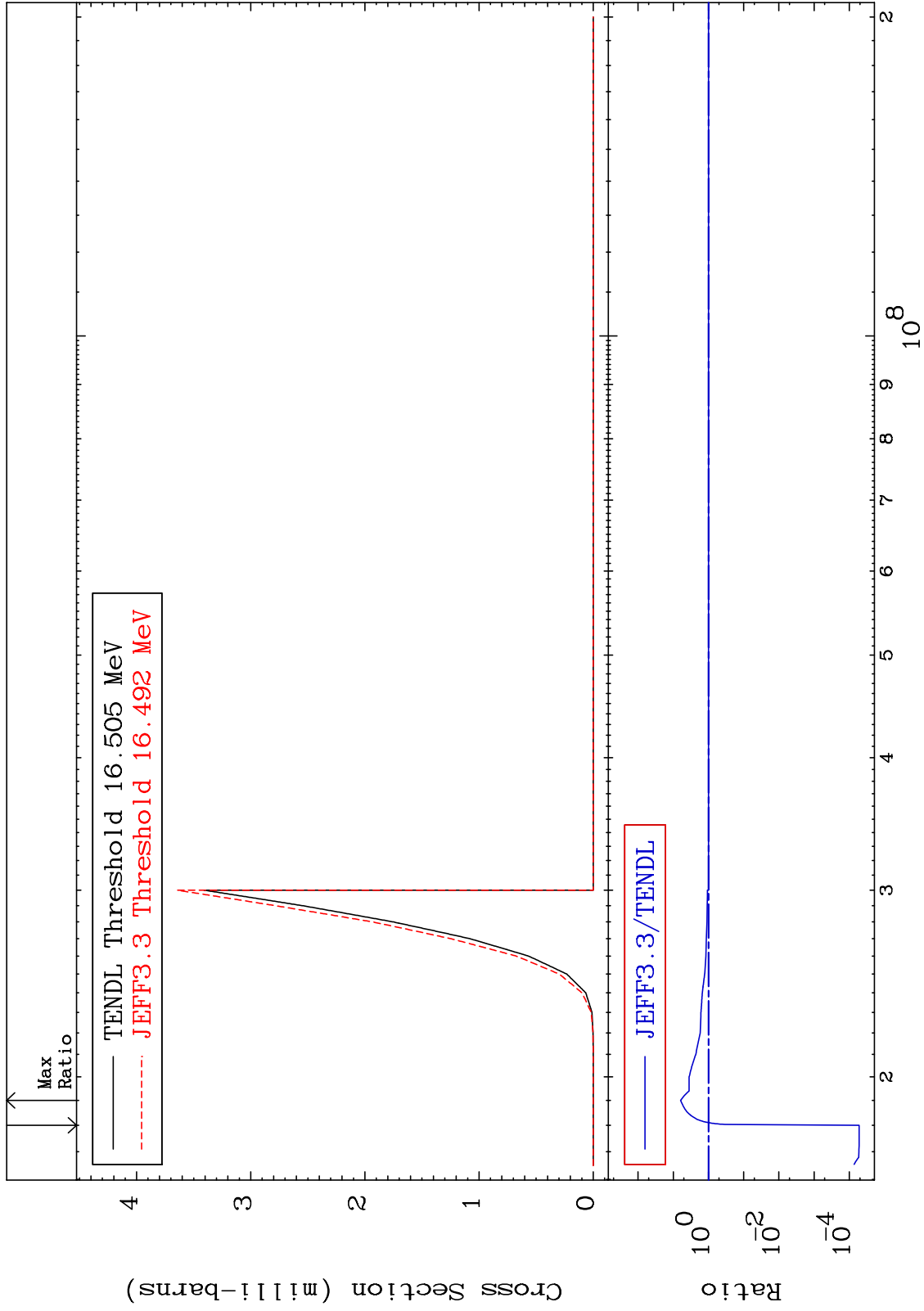
MAT 5425

(n, n') t

54-Xe-124

Cross Section

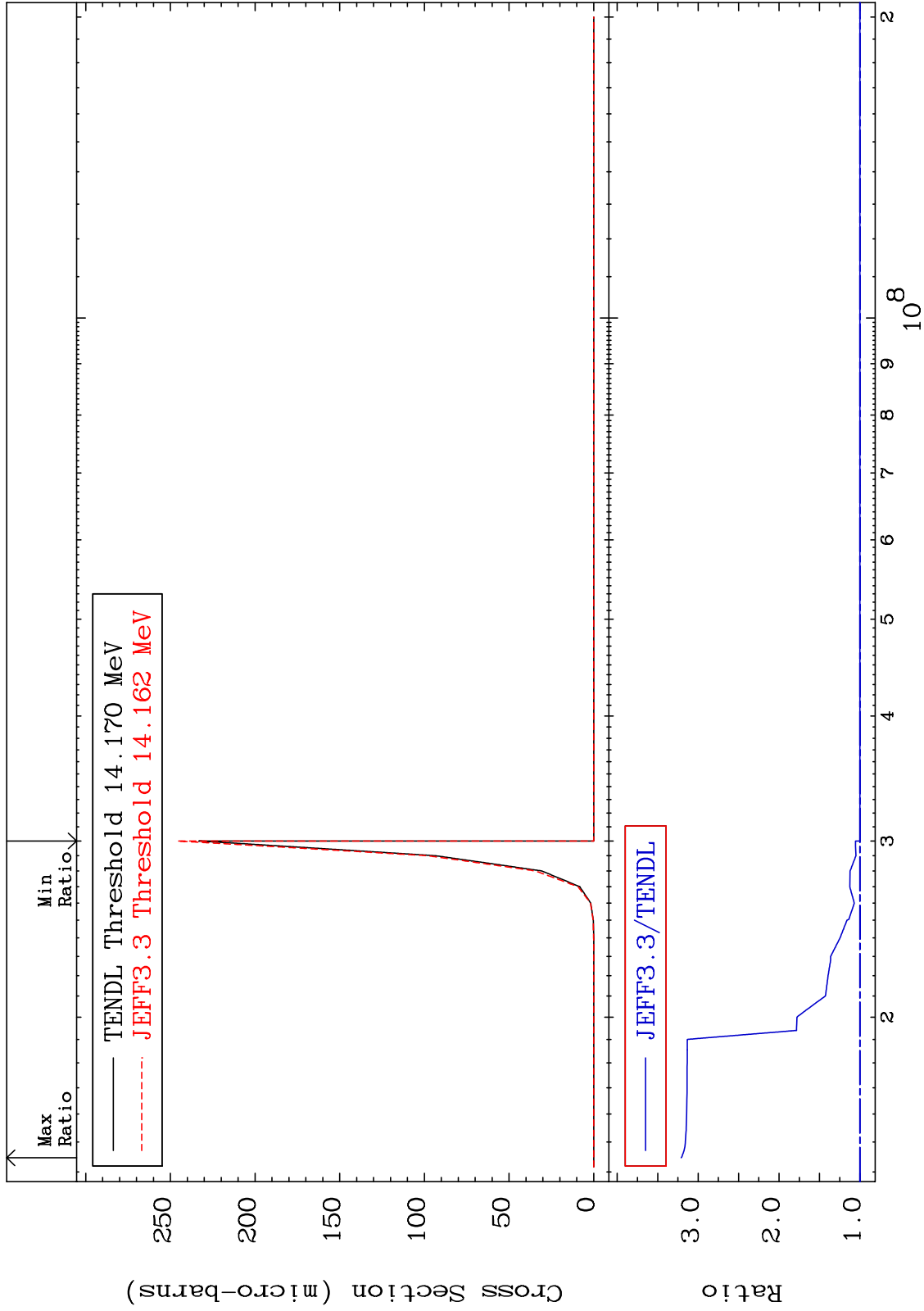
-99.99 To 517.7 %



MAT 5425

(n, n') He-3  
Cross Section

54-Xe-124  
0.000 To 220.9 %



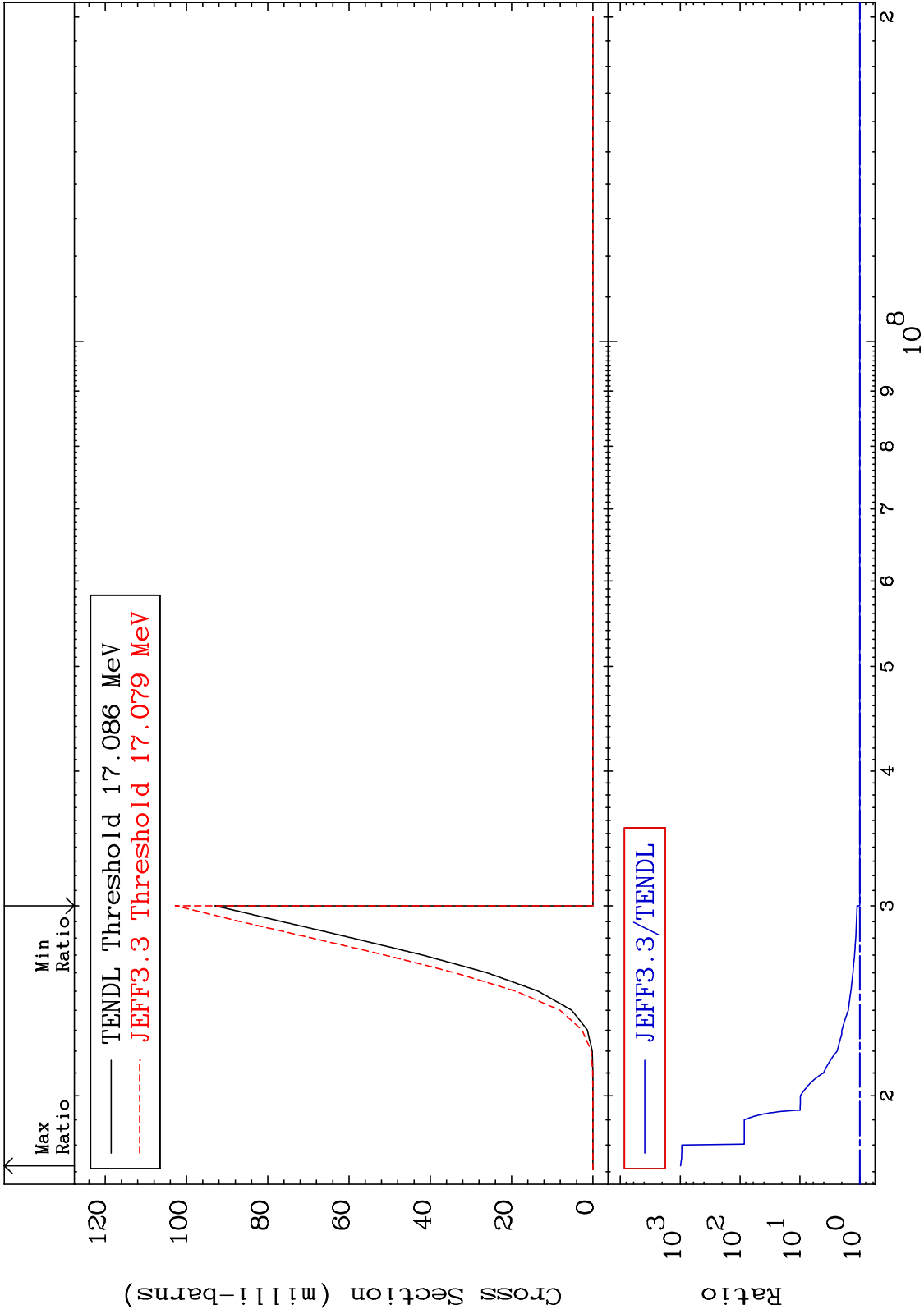
MAT 5425

(n,2n) p

54-Xe-124

Cross Section

0.000 To 9999. %

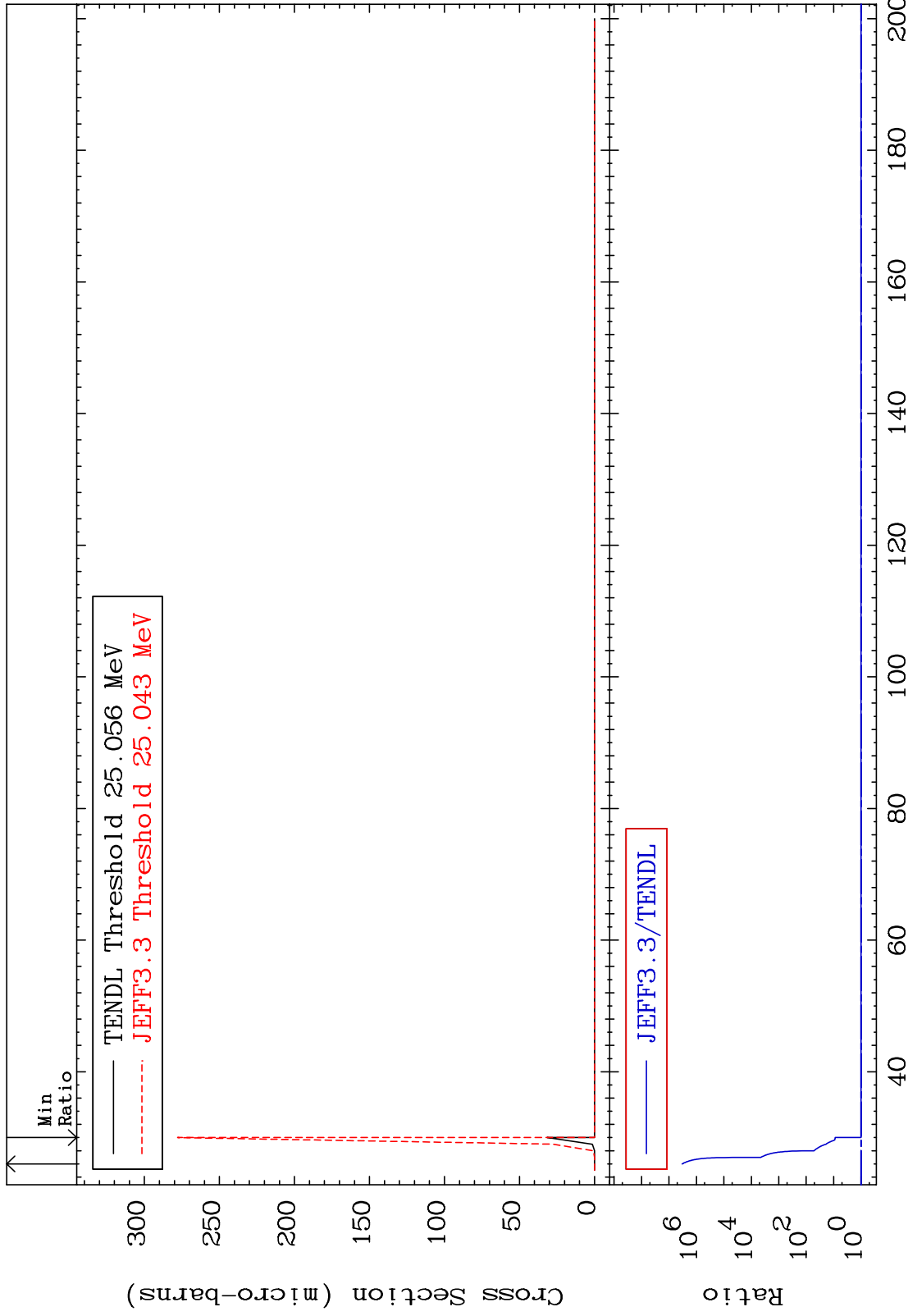




MAT 5425

(n,3n) p  
Cross Section

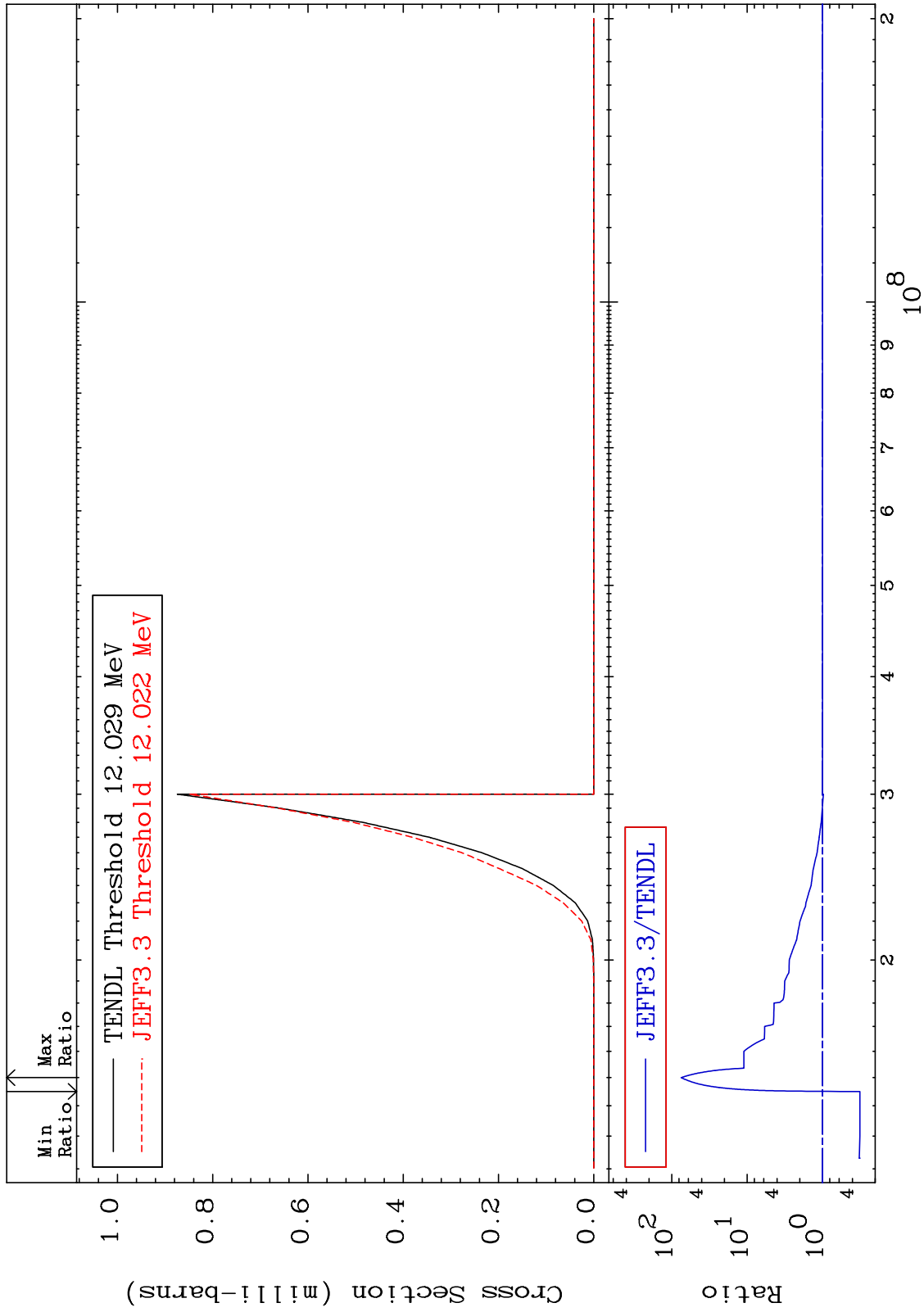
54-Xe-124  
0.000 To 9999. %



MAT 5425

(n,2n) p  
Cross Section

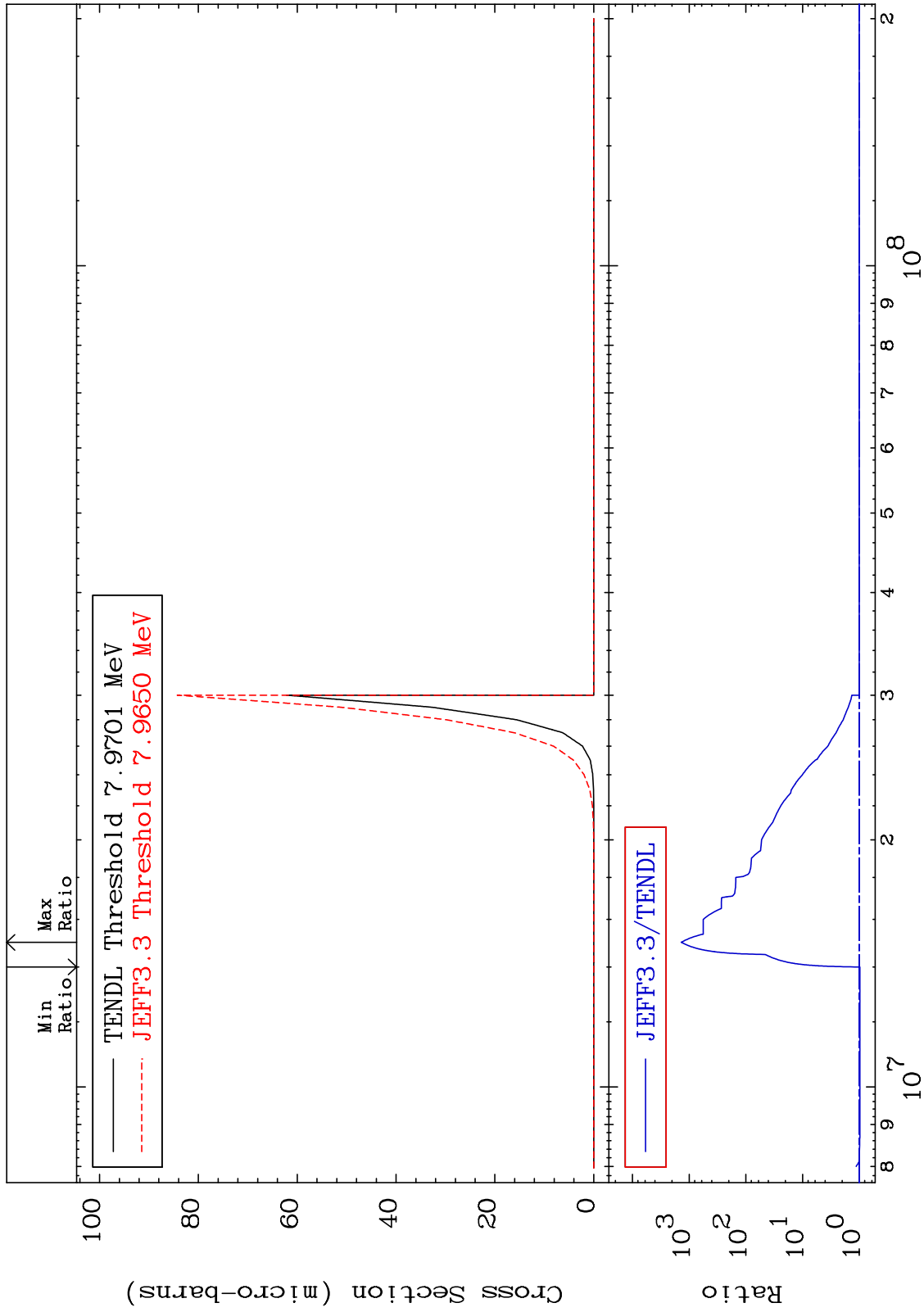
54-Xe-124  
-68.22 To 7388. %



MAT 5425

(n,n') p  $\alpha$   
Cross Section

54-Xe-124  
-2.749 To 9999. %



18

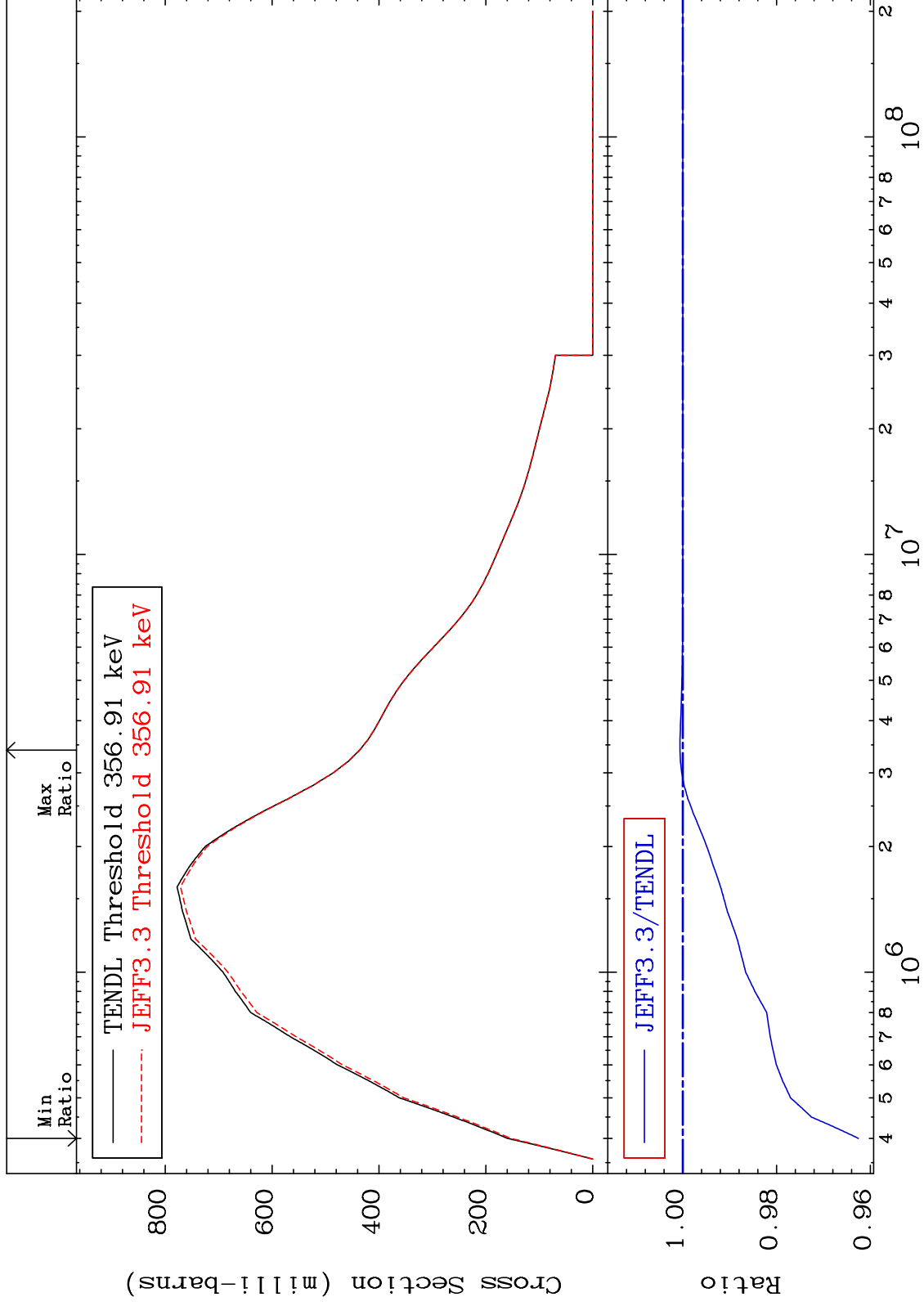
Incident Energy (eV)

54-Xe-124

MAT 5425

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

54-Xe-124  
-3.746 To 0.058 %



19

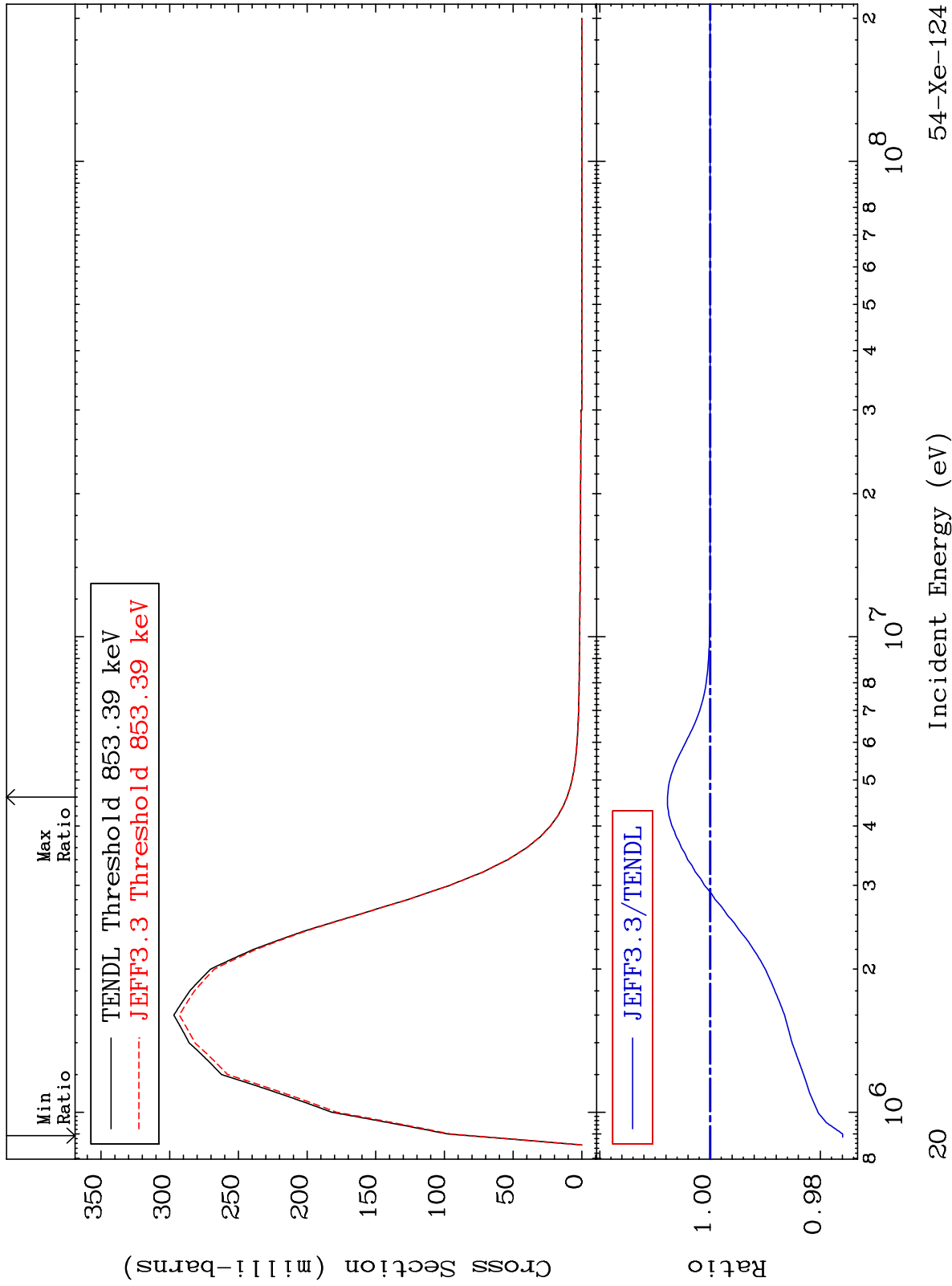
Incident Energy (eV)

54-Xe-124

MAT 5425

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

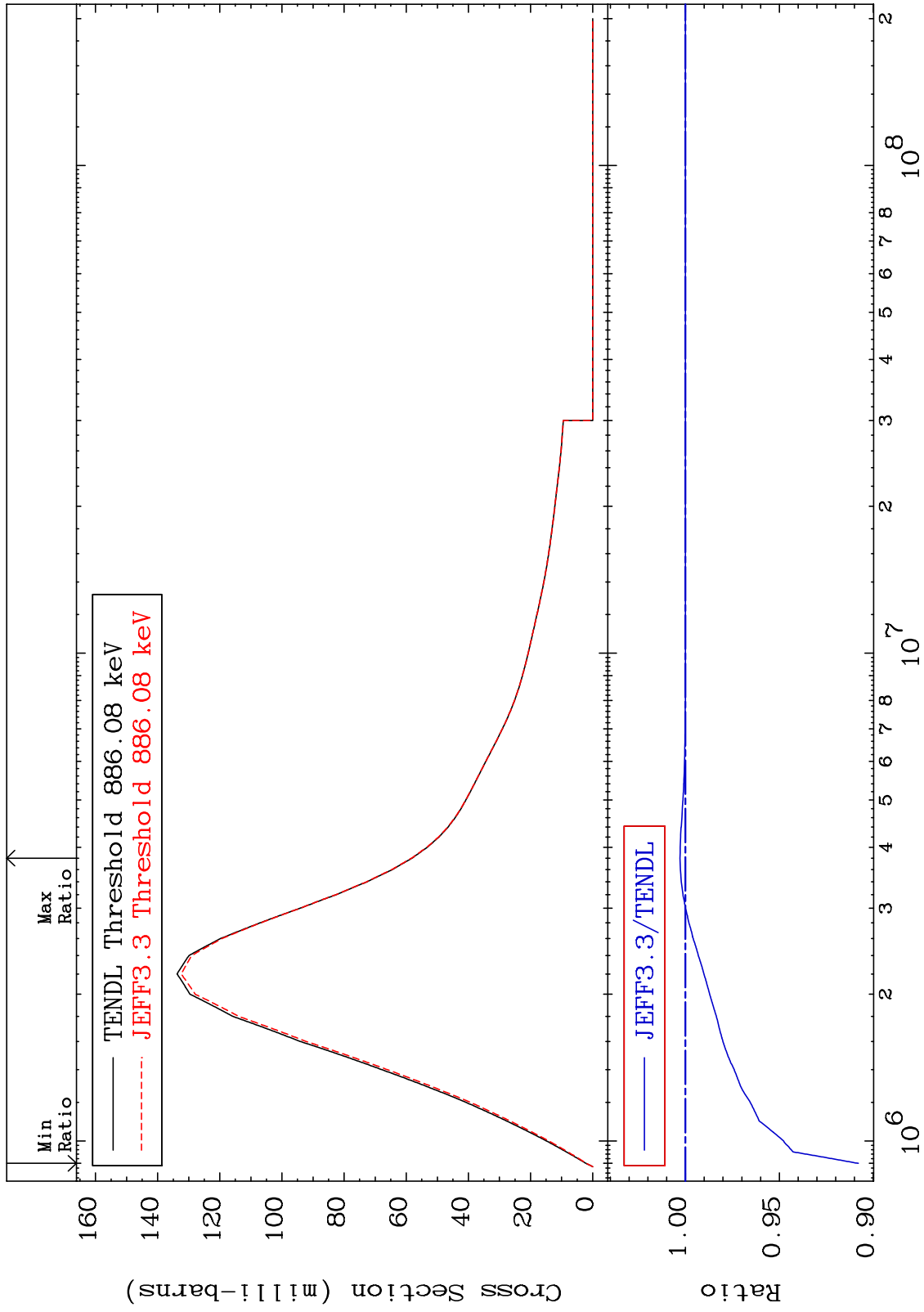
54-Xe-124  
-2.405 To 0.772 %



MAT 5425

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

54-Xe-124  
-9.209 To 0.289 %



Incident Energy (eV)

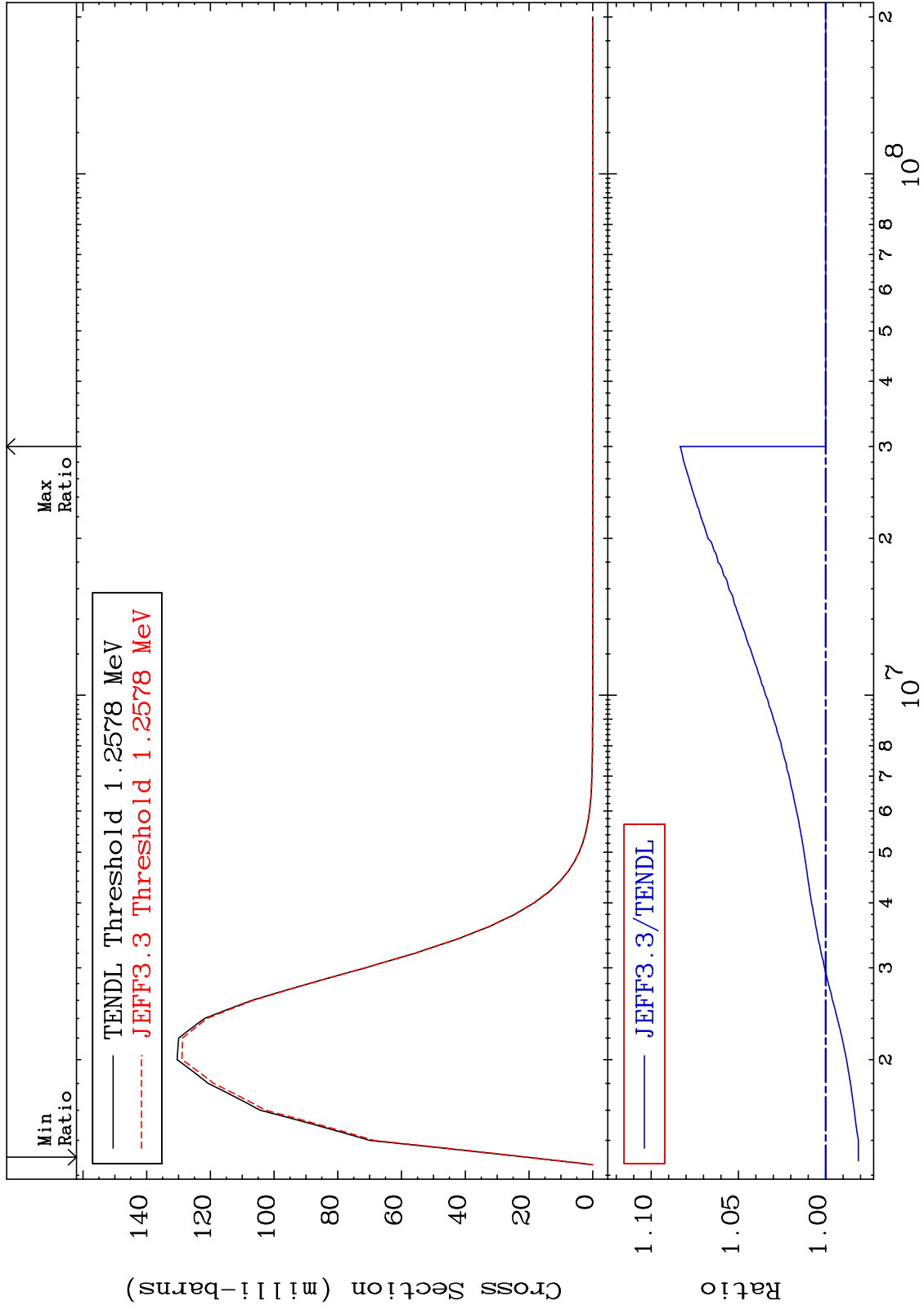
54-Xe-124

21

MAT 5425

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

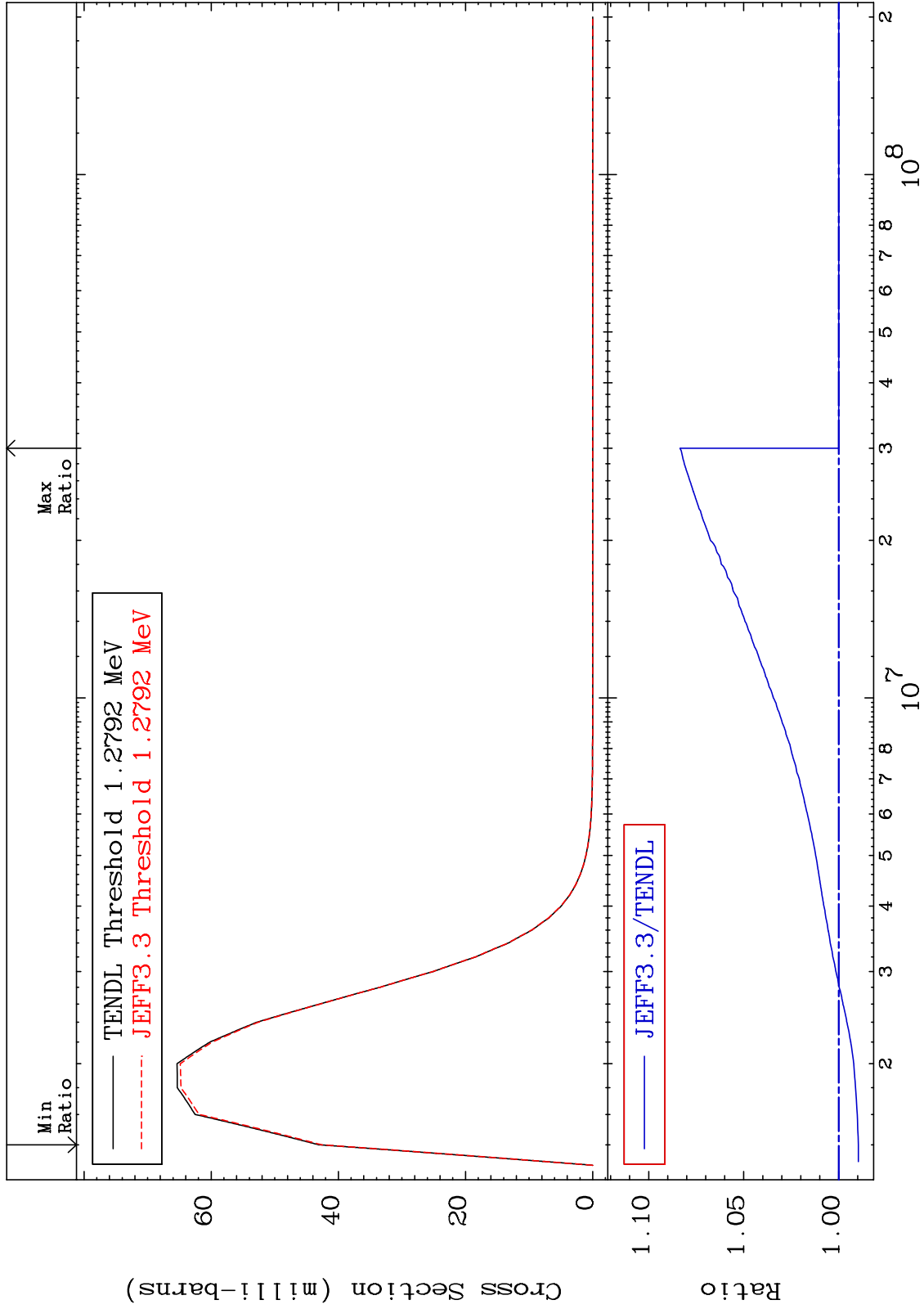
54-Xe-124  
-1.882 To 8.349 %



MAT 5425

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

54-Xe-124  
-1.033 To 8.351 %

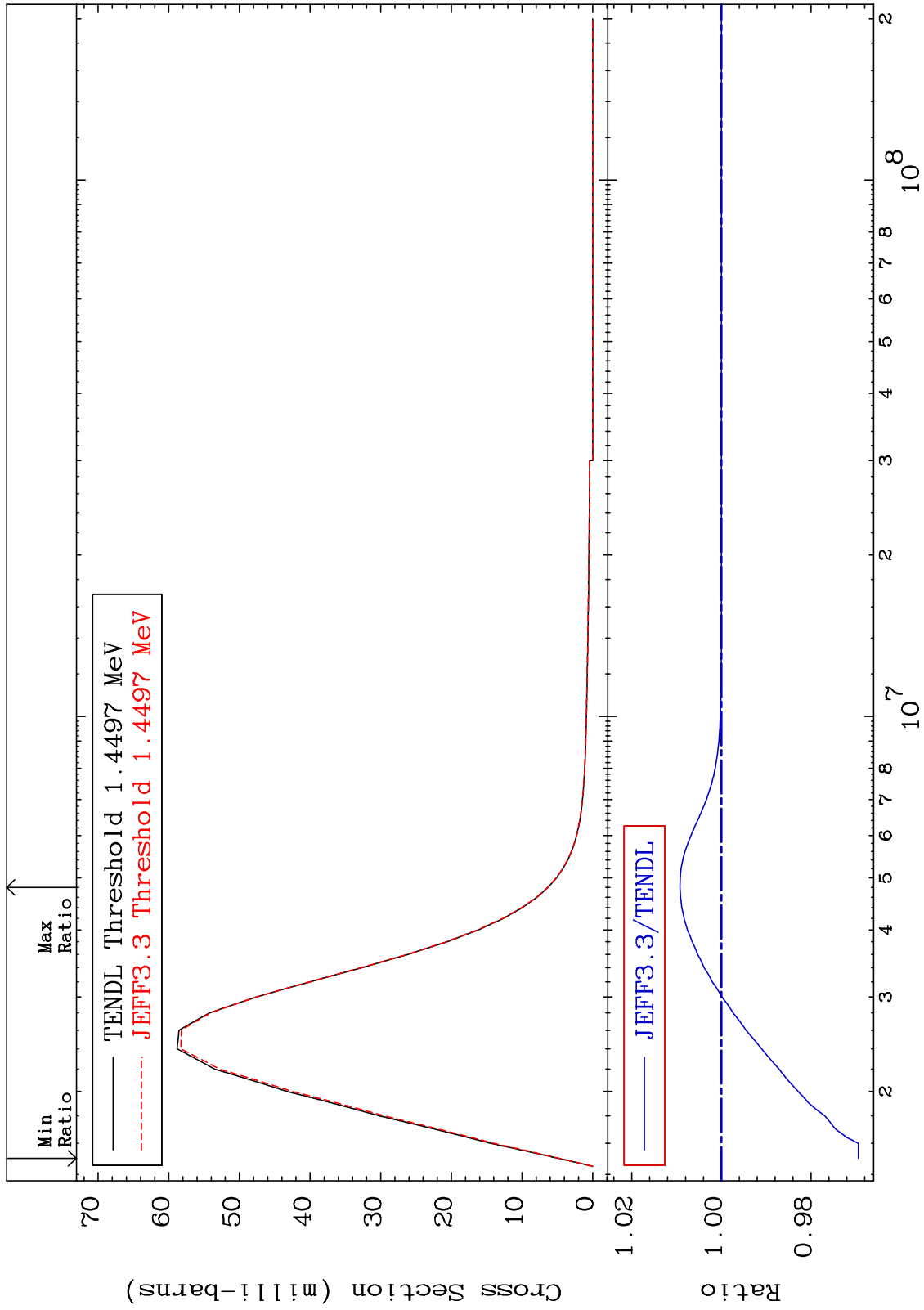




MAT 5425

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

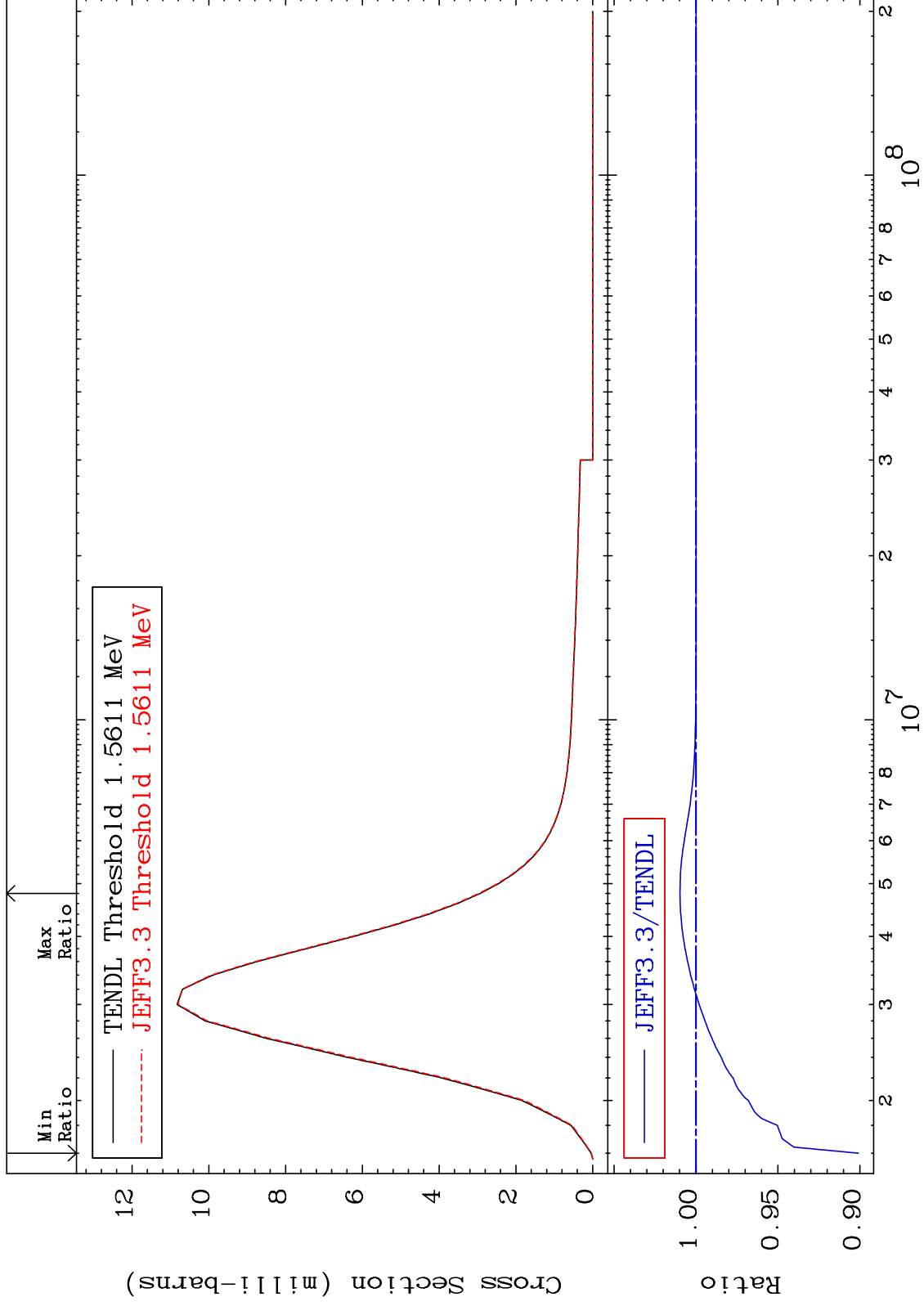
54-Xe-124  
-3.059 To 0.923 %



MAT 5425

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

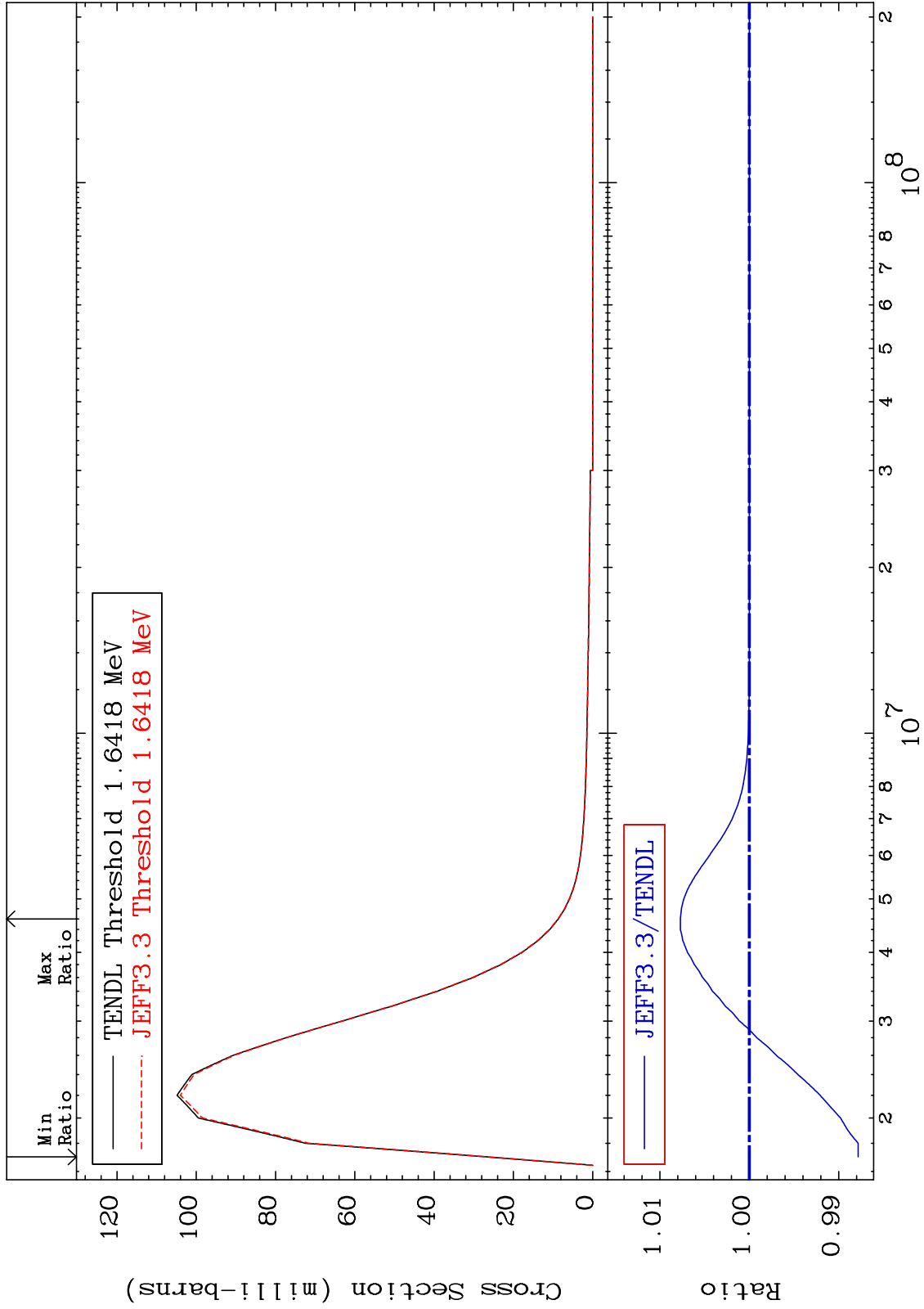
54-Xe-124  
-9.908 To 0.976 %



MAT 5425

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

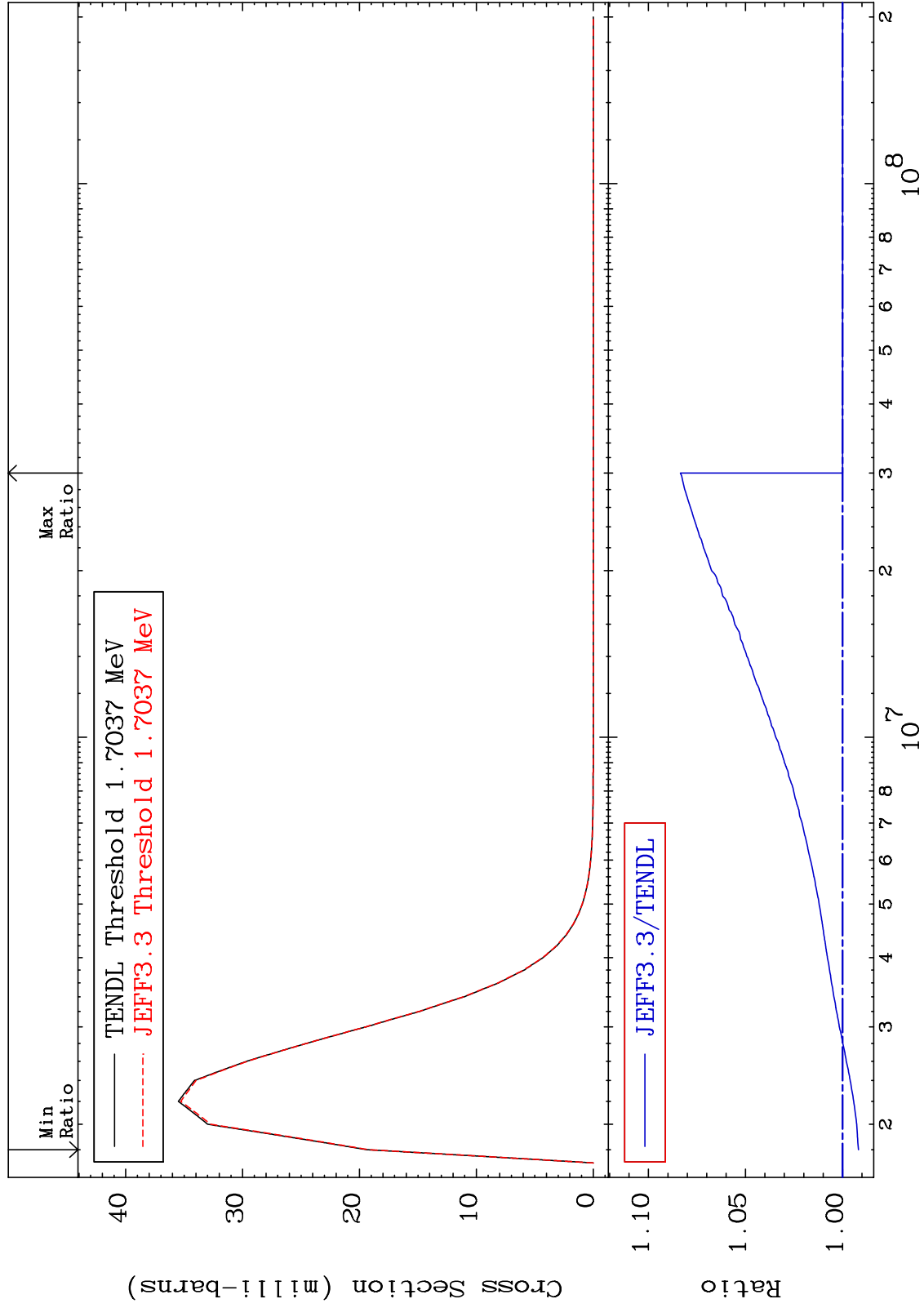
54-Xe-124  
-1.217 To 0.772 %



MAT 5425

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

54-Xe-124  
-0.824 To 8.352 %



27

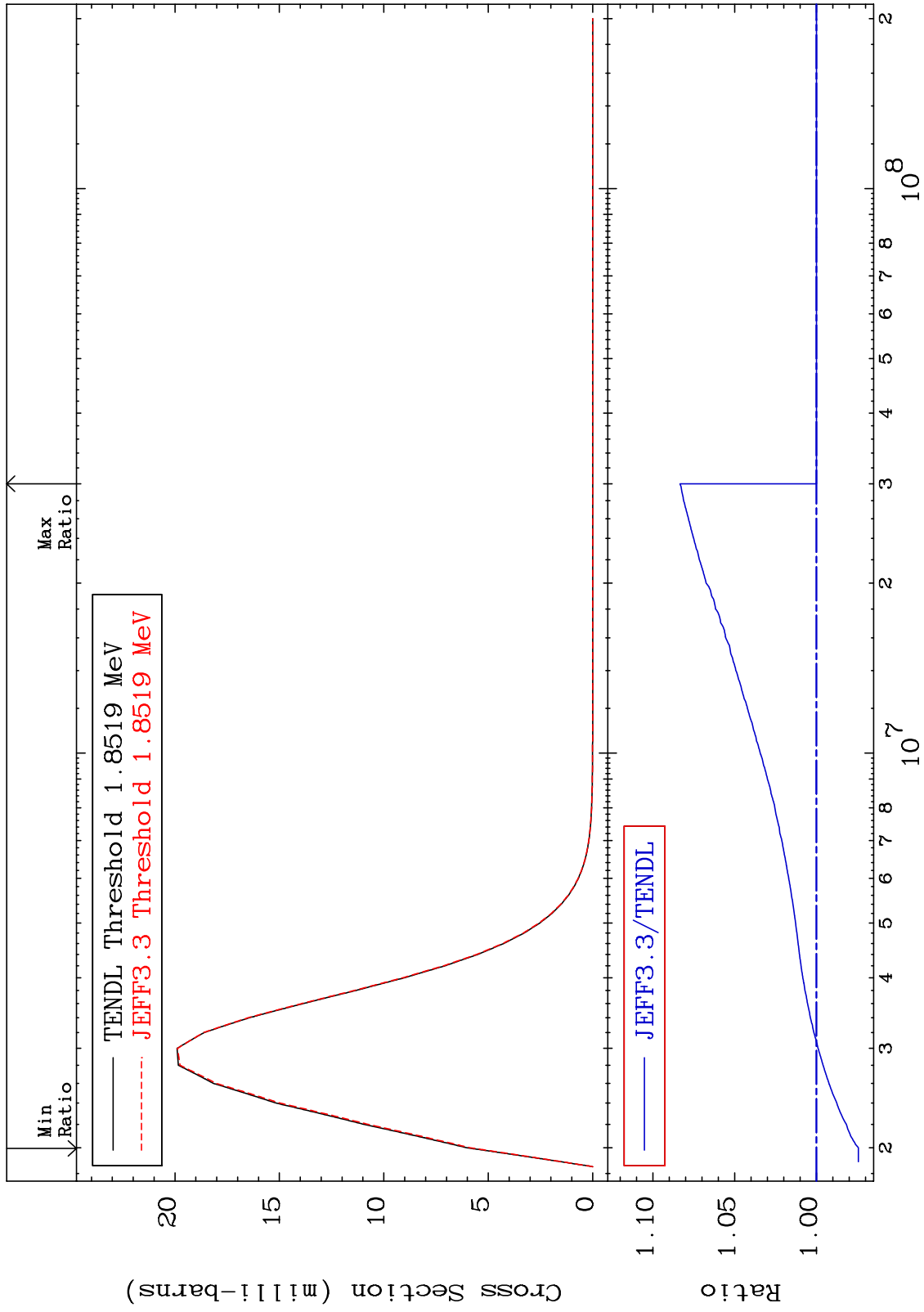
Incident Energy (eV)

54-Xe-124

MAT 5425

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

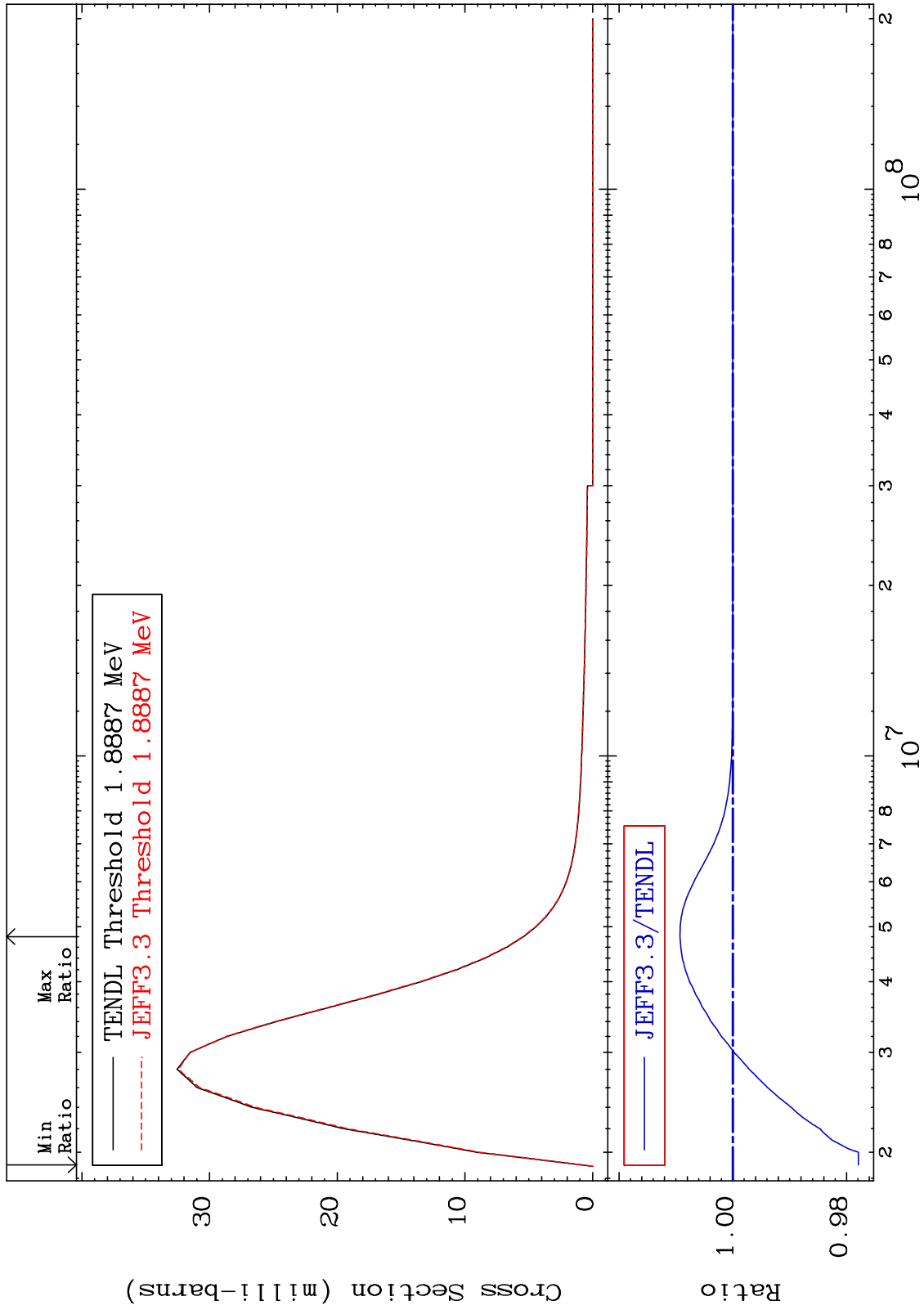
54-Xe-124  
-2.568 To 8.342 %



MAT 5425

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

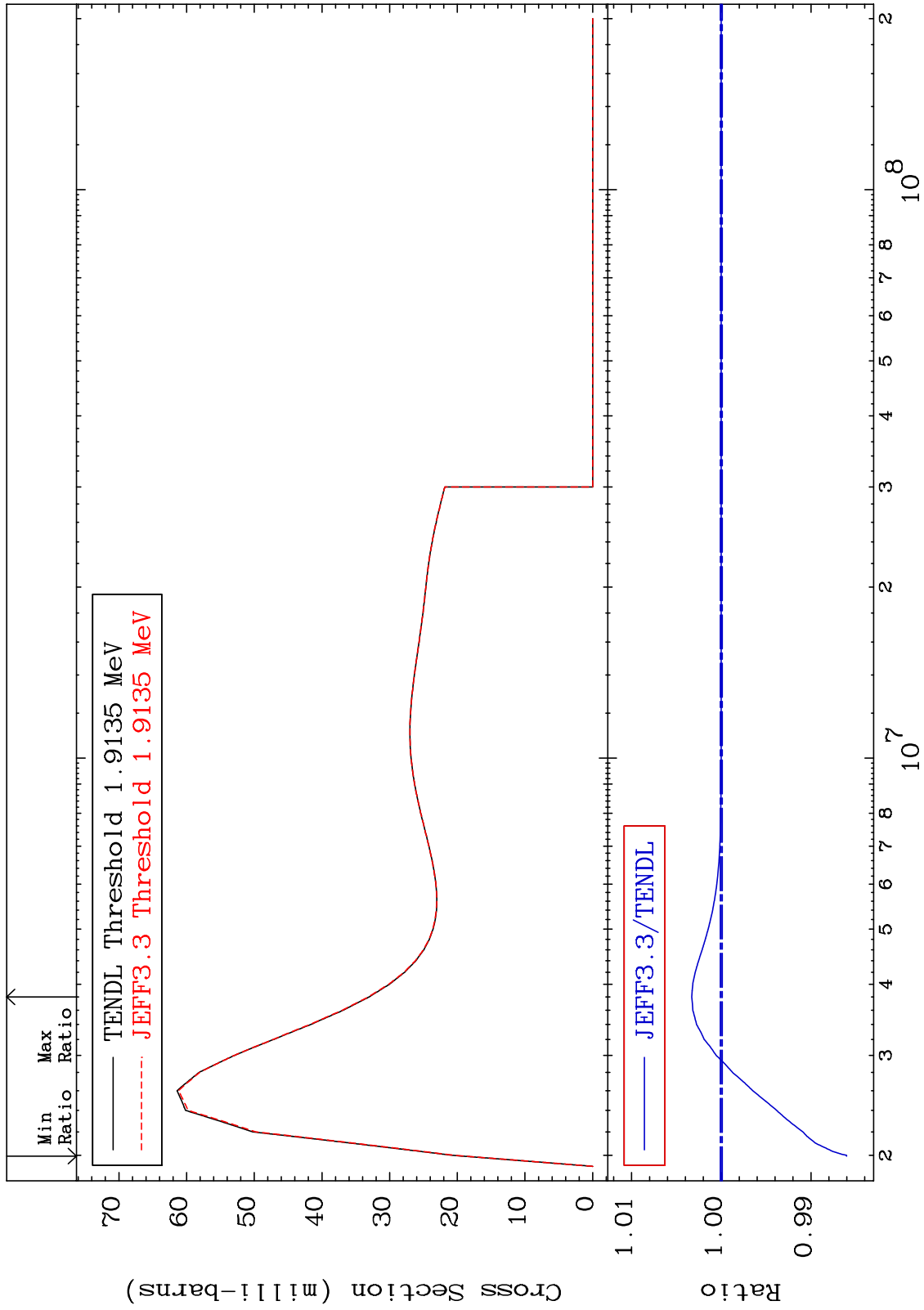
54-Xe-124  
-2.207 To 0.928 %



MAT 5425

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

54-Xe-124  
-1.398 To 0.329 %



30

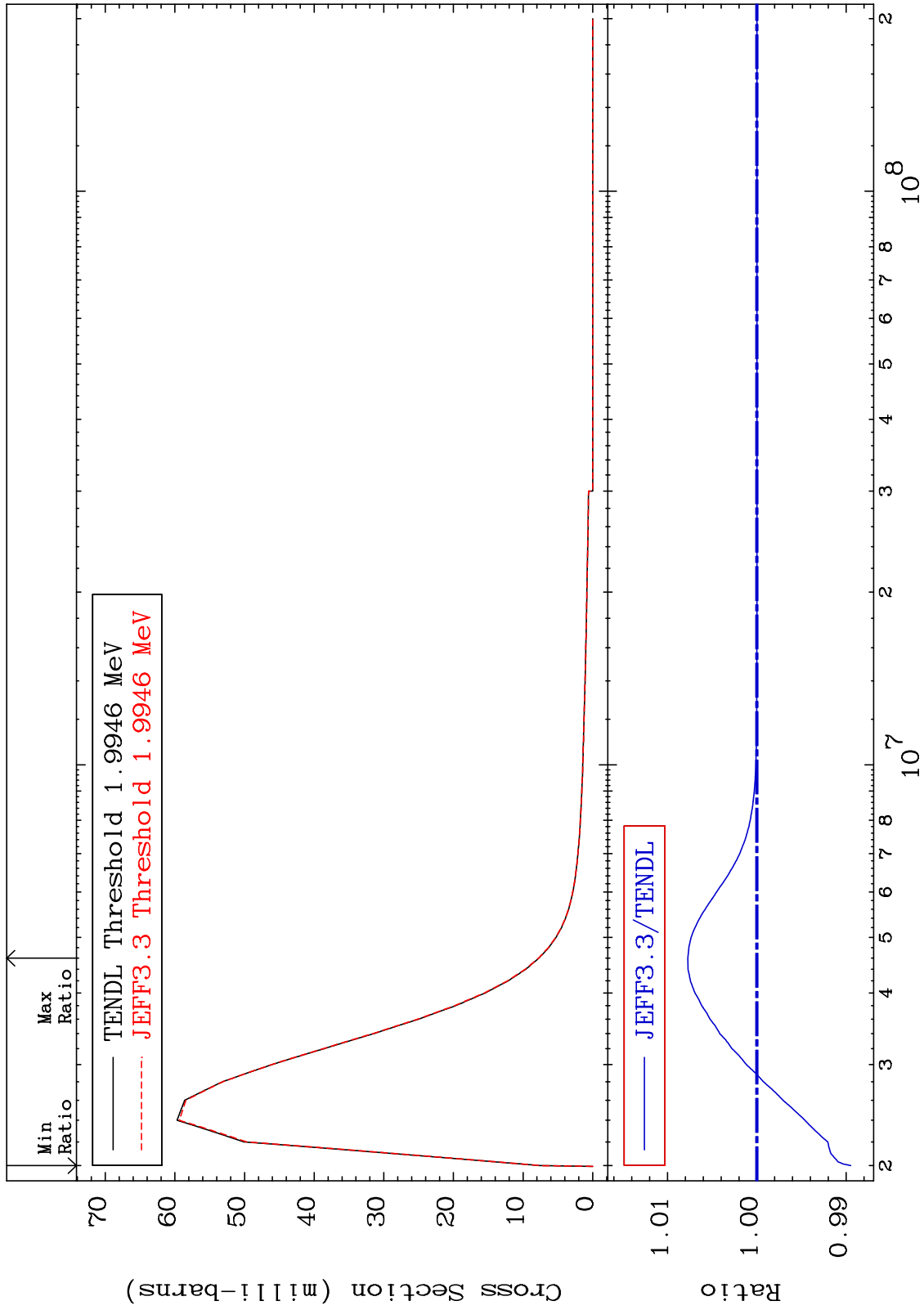
Incident Energy (eV)

54-Xe-124

MAT 5425

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

54-Xe-124  
-1.051 To 0.774 %

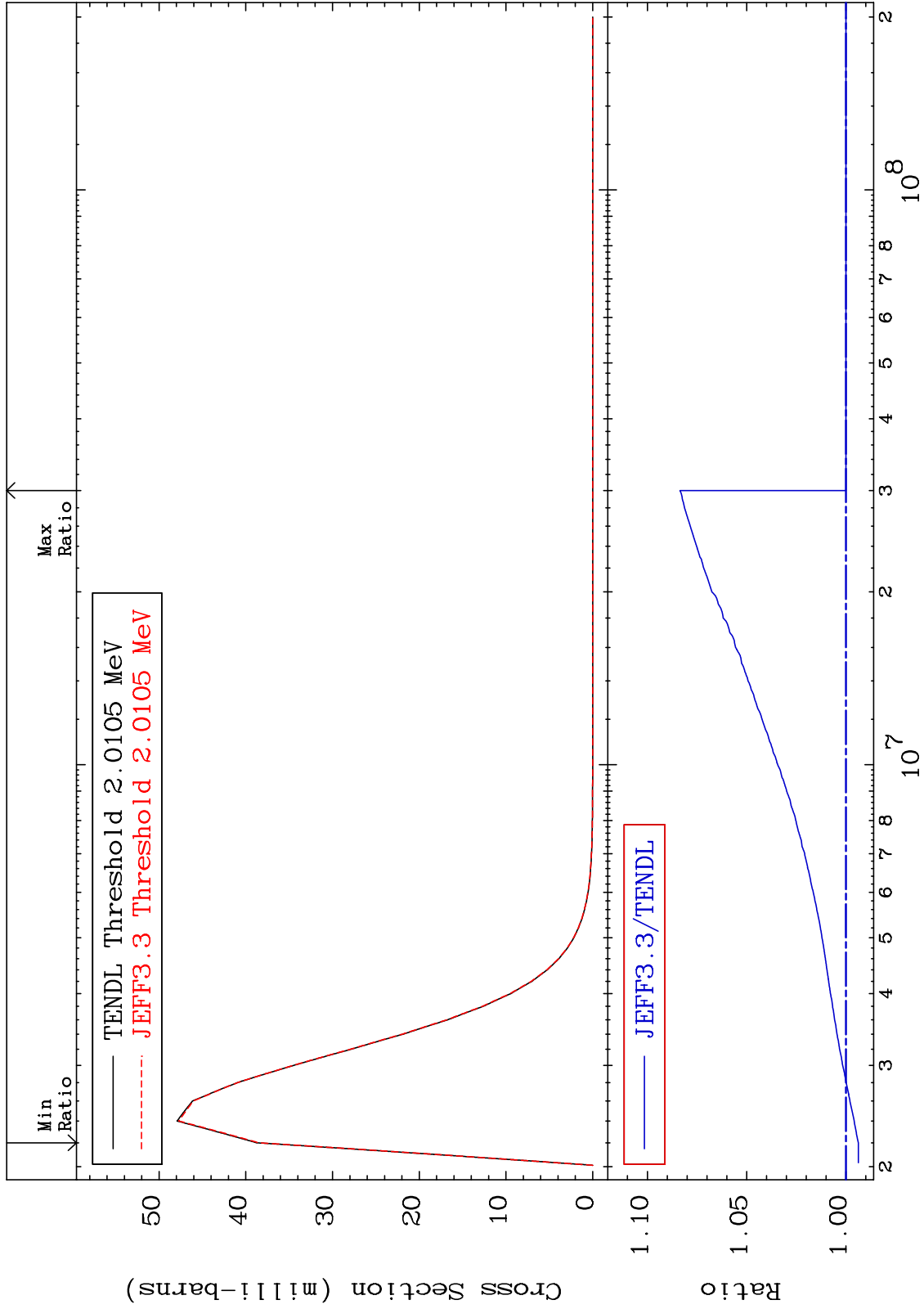




MAT 5425

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

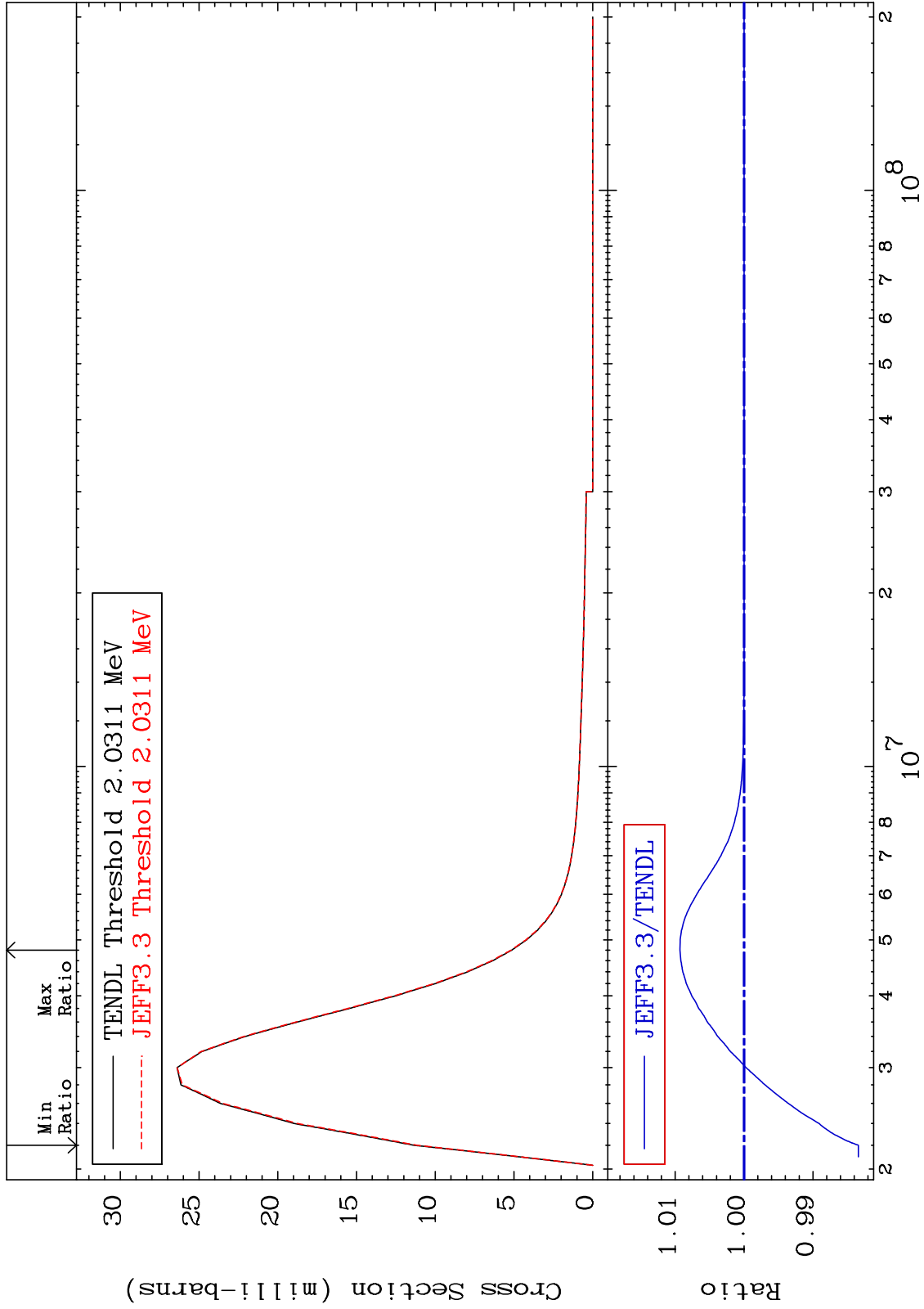
54-Xe-124  
-0.626 To 8.355 %



MAT 5425

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

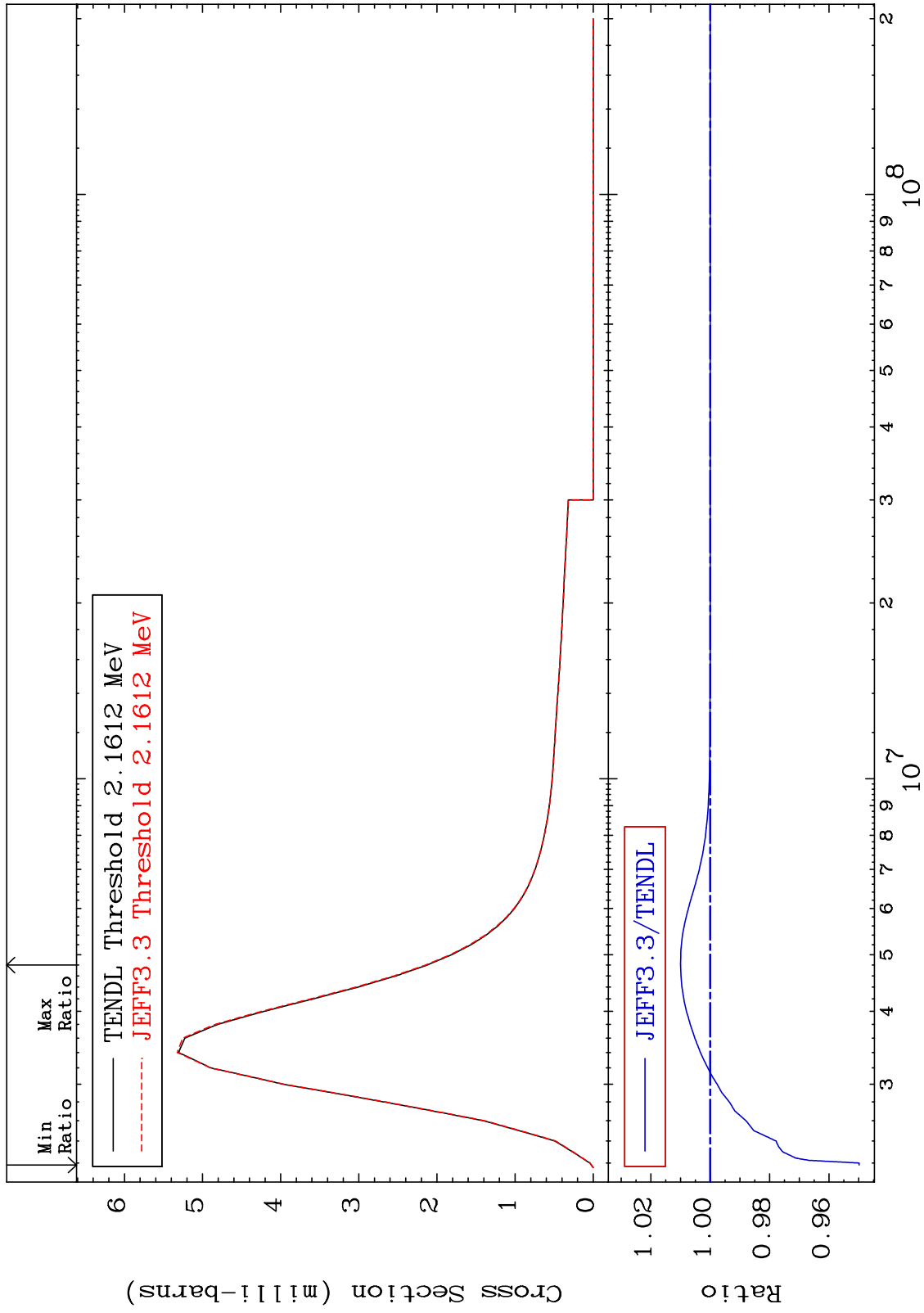
54-Xe-124  
-1.660 To 0.930 %



MAT 5425

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

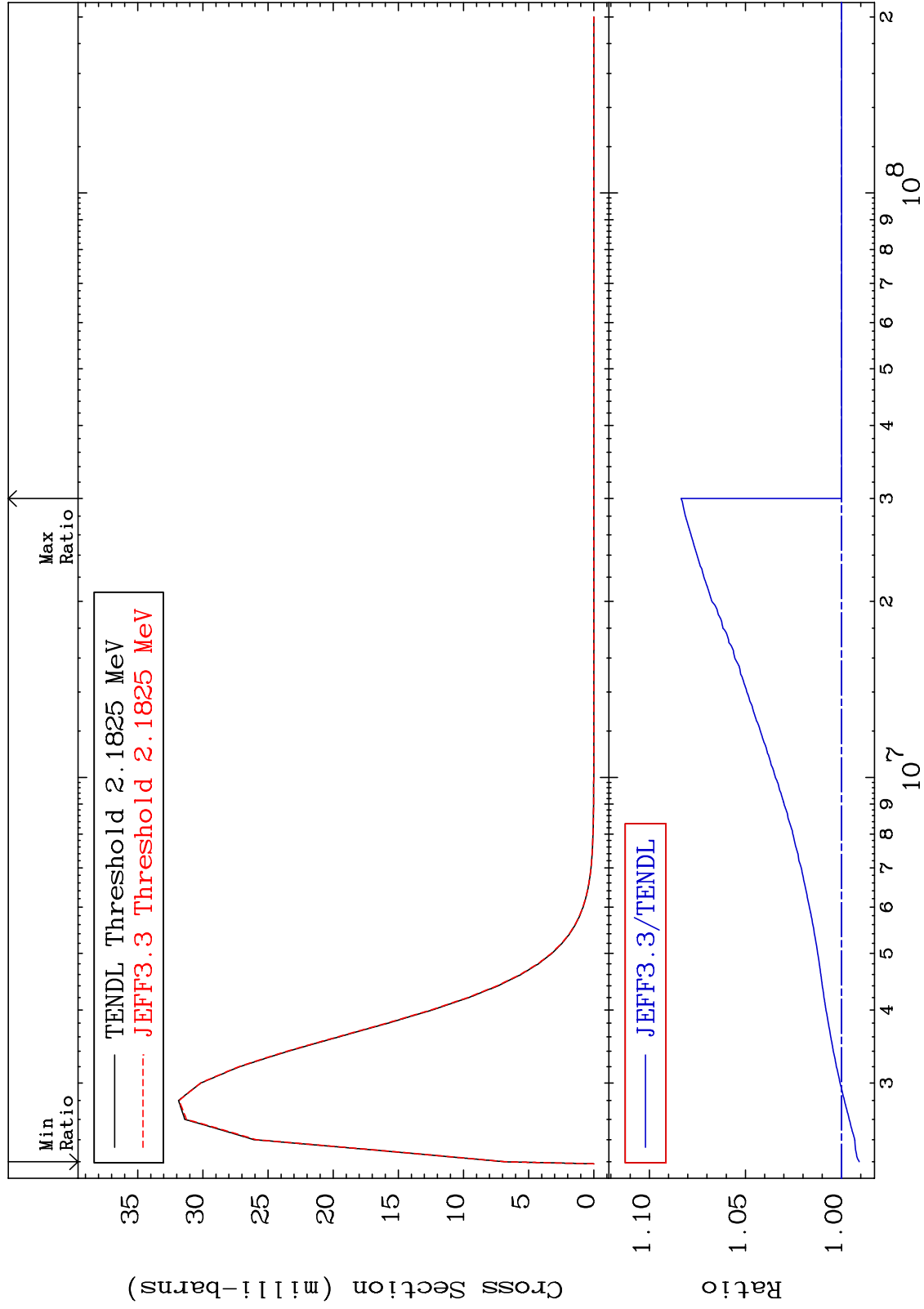
54-Xe-124  
-5.018 To 0.995 %



MAT 5425

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

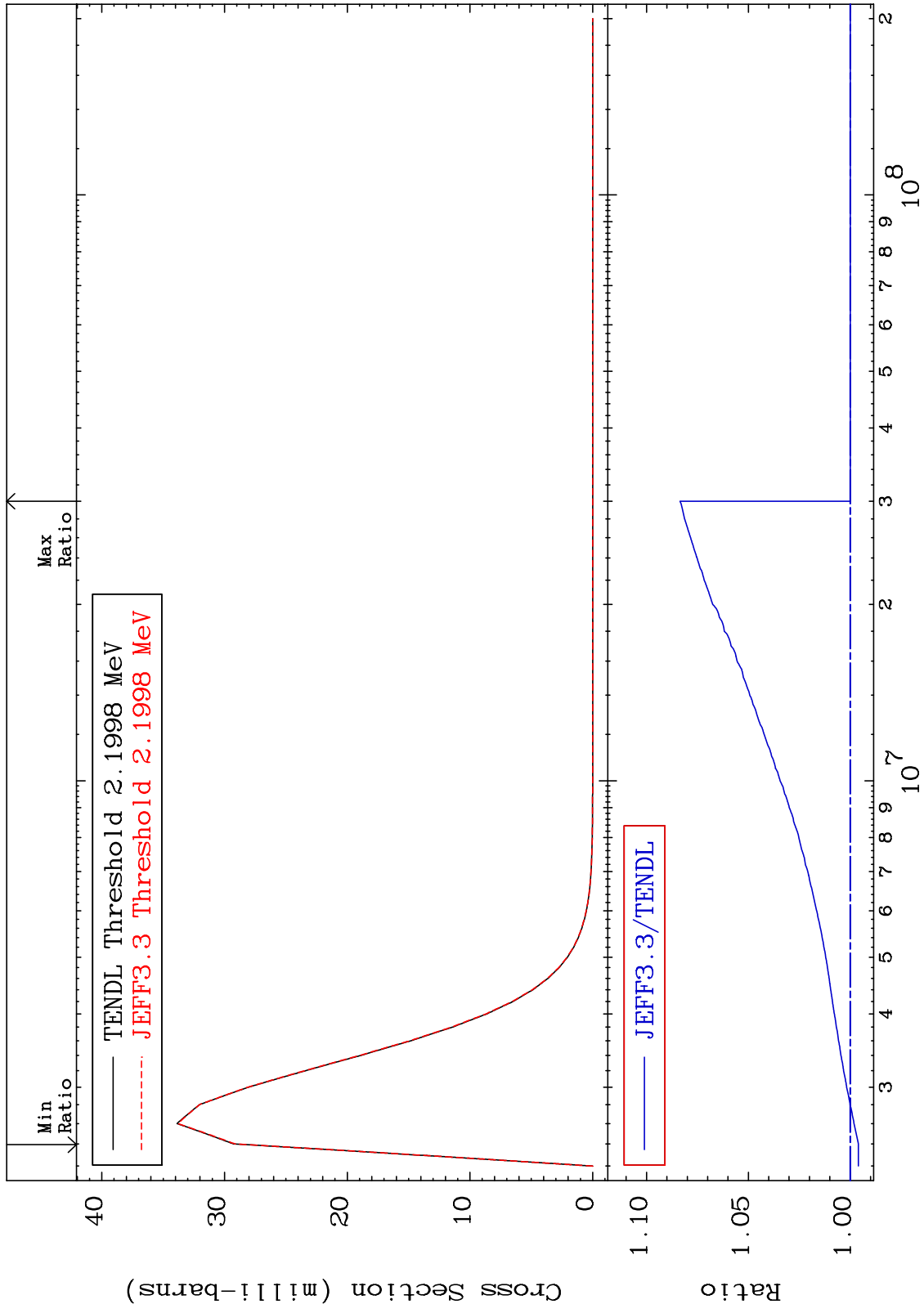
54-Xe-124  
-0.926 To 8.350 %



35

54-Xe-124

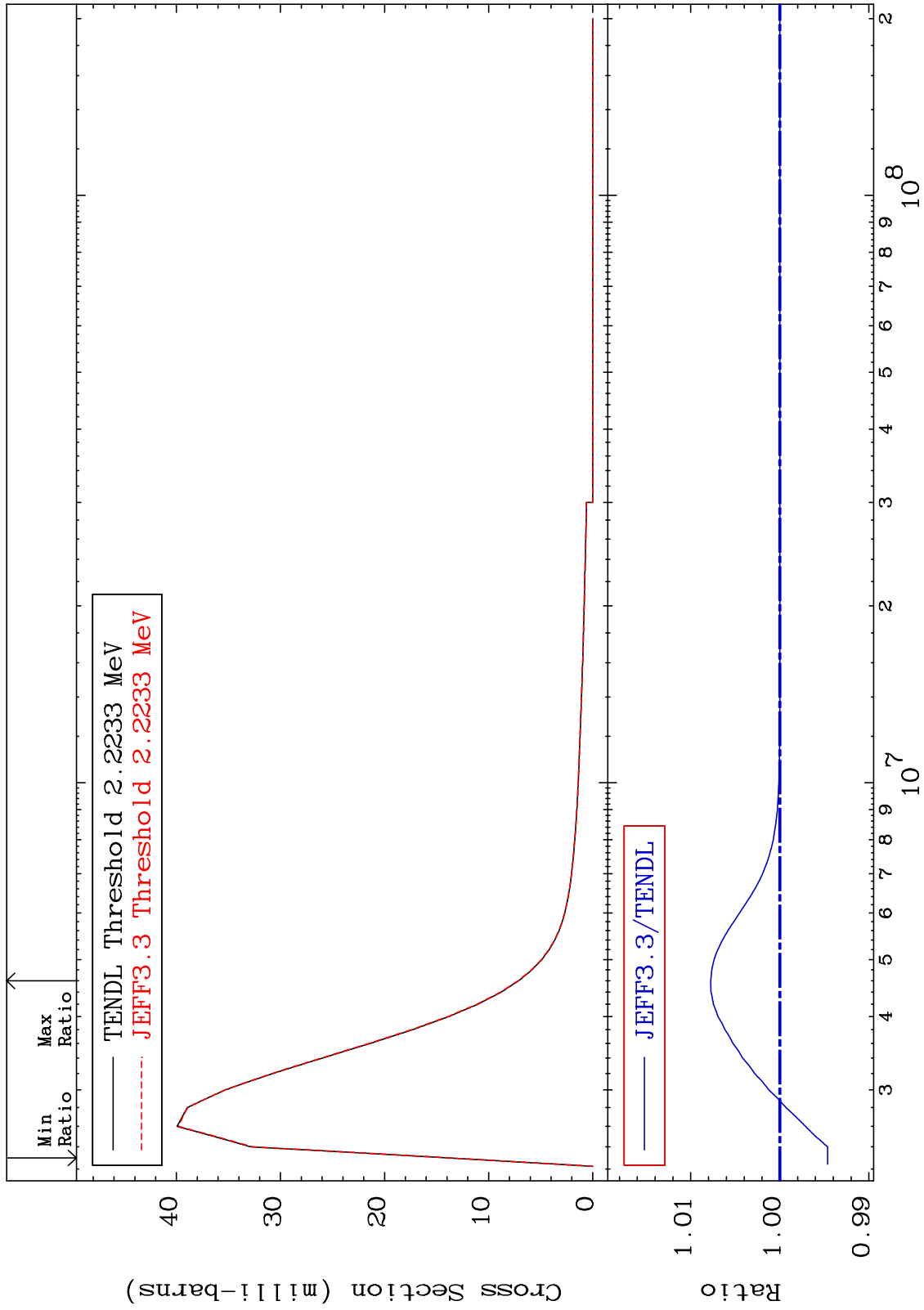
MAT 5425 MT= 68 (n,n') Level Cross Section 54-Xe-124  
 -0.404 To 8.355 %



MAT 5425

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

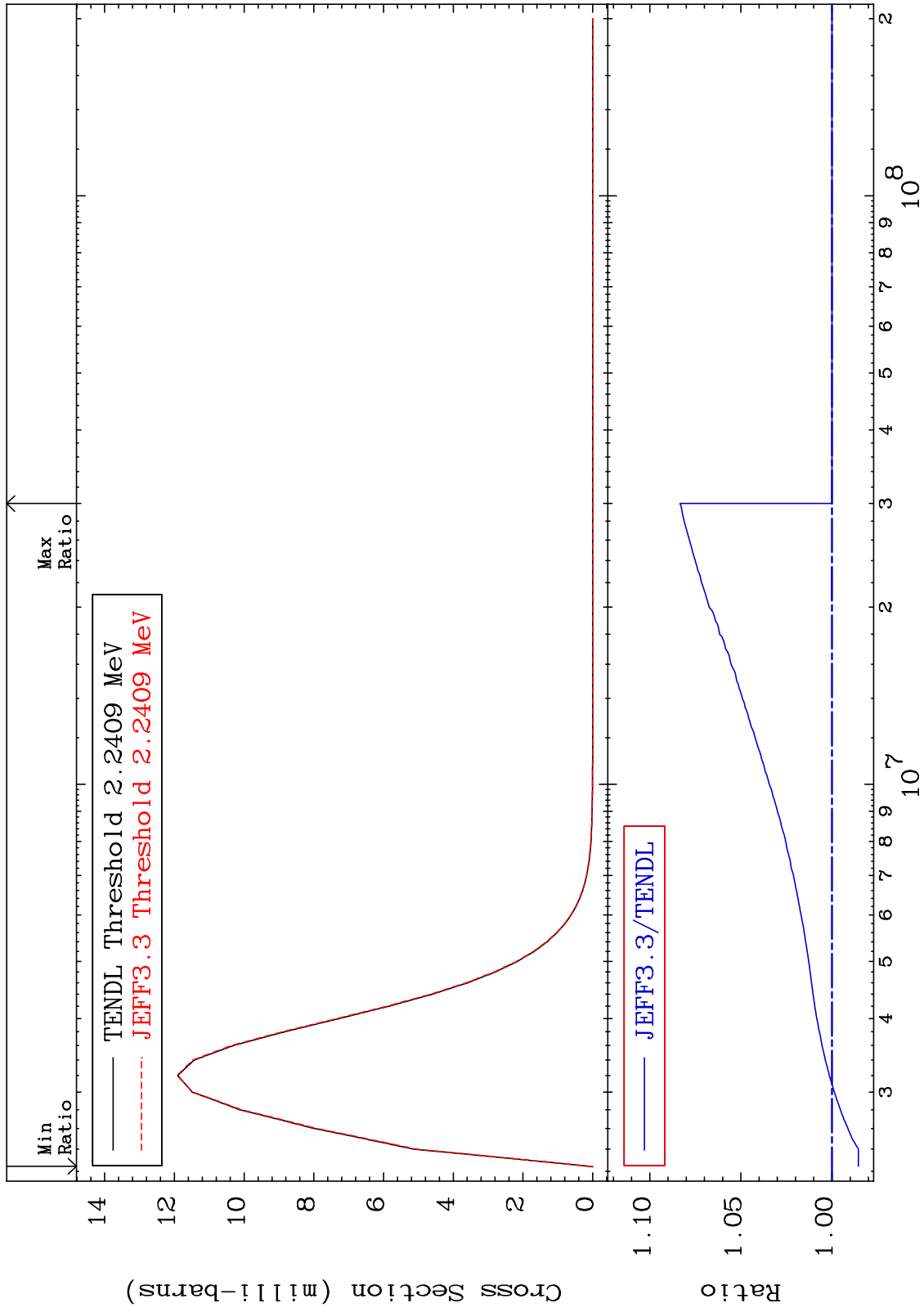
54-Xe-124  
-0.537 To 0.775 %



MAT 5425

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

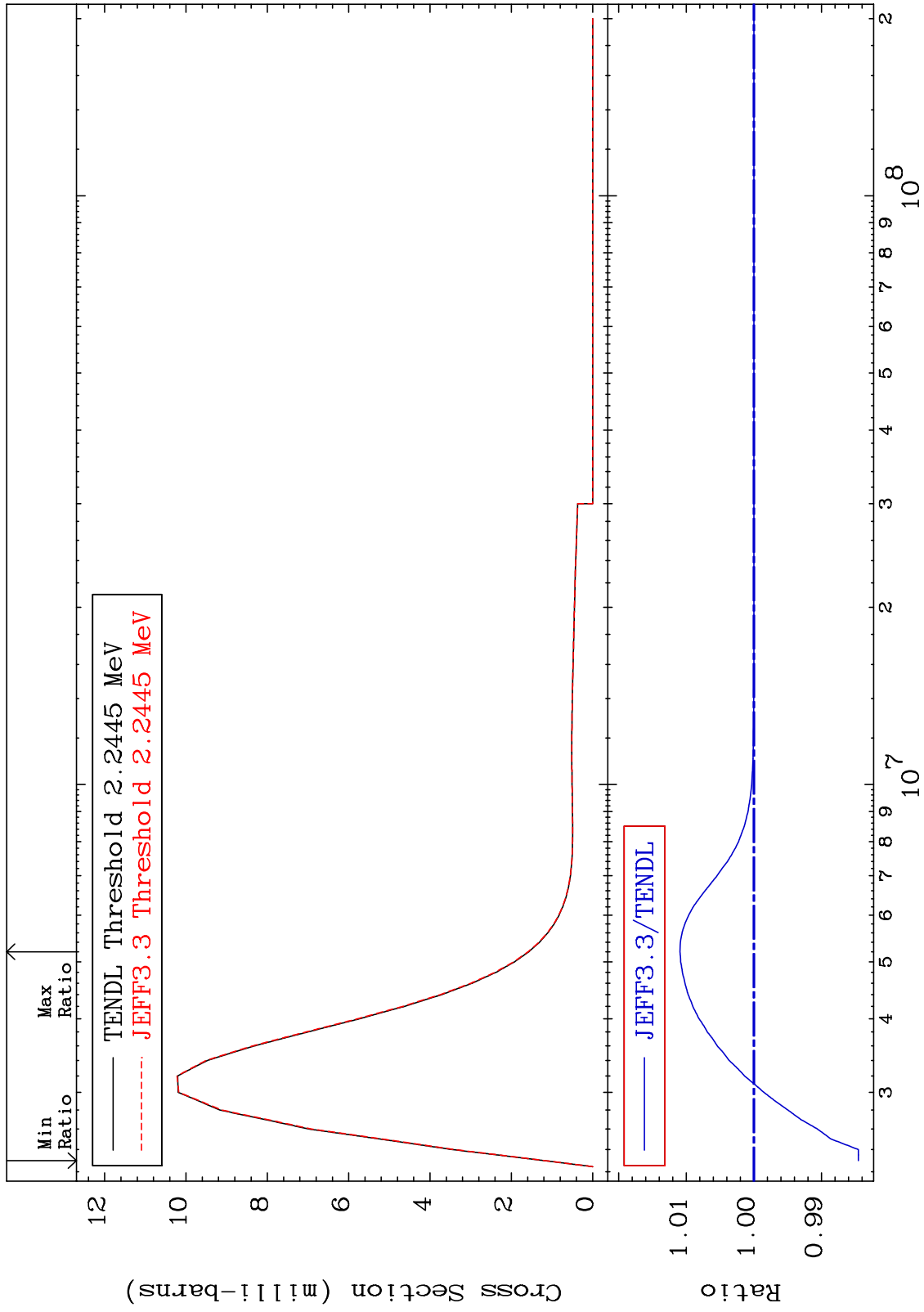
54-Xe-124  
-1.451 To 8.342 %



MAT 5425

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

54-Xe-124  
-1.547 To 1.091 %

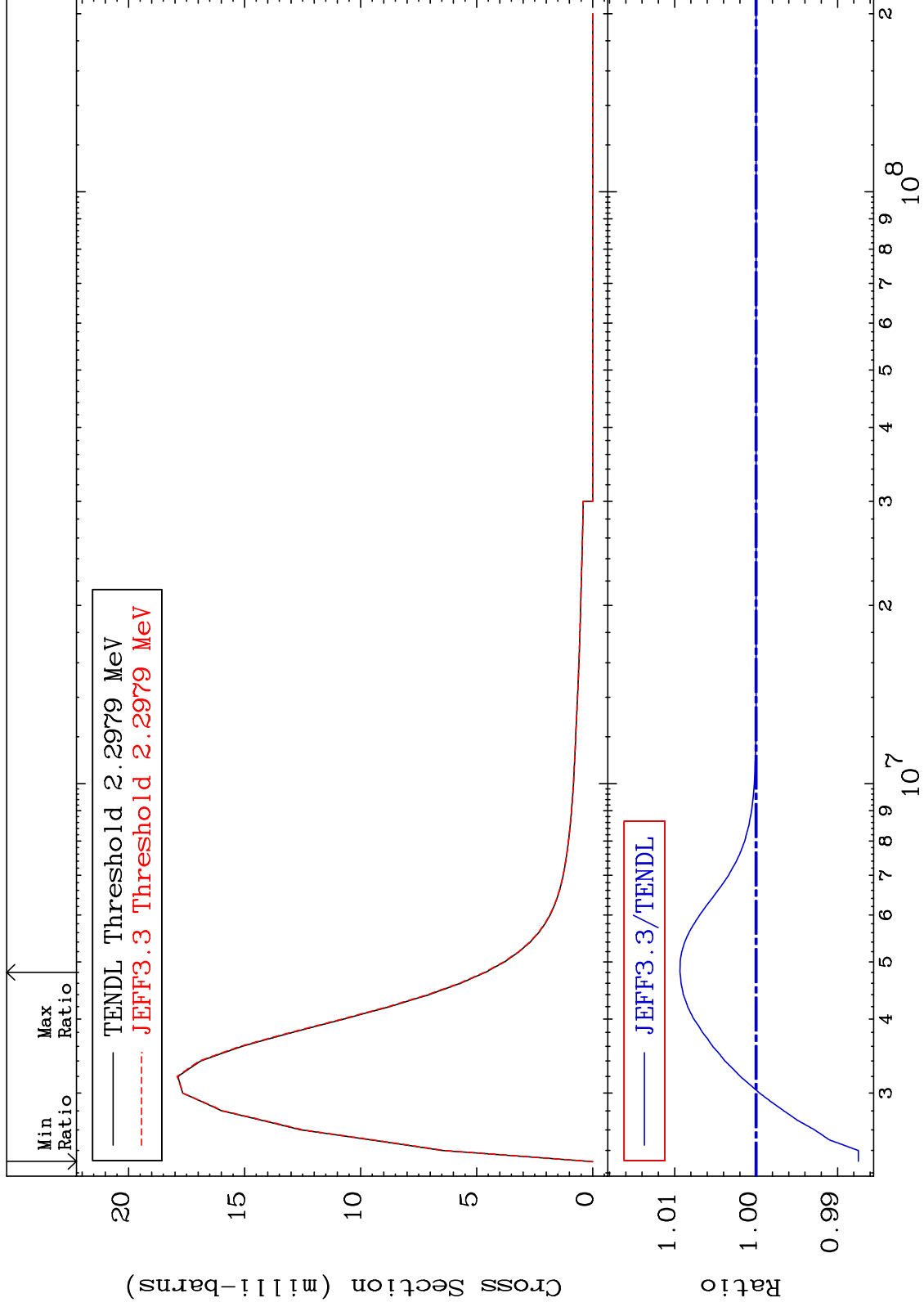




MAT 5425

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

54-Xe-124  
-1.256 To 0.934 %



40

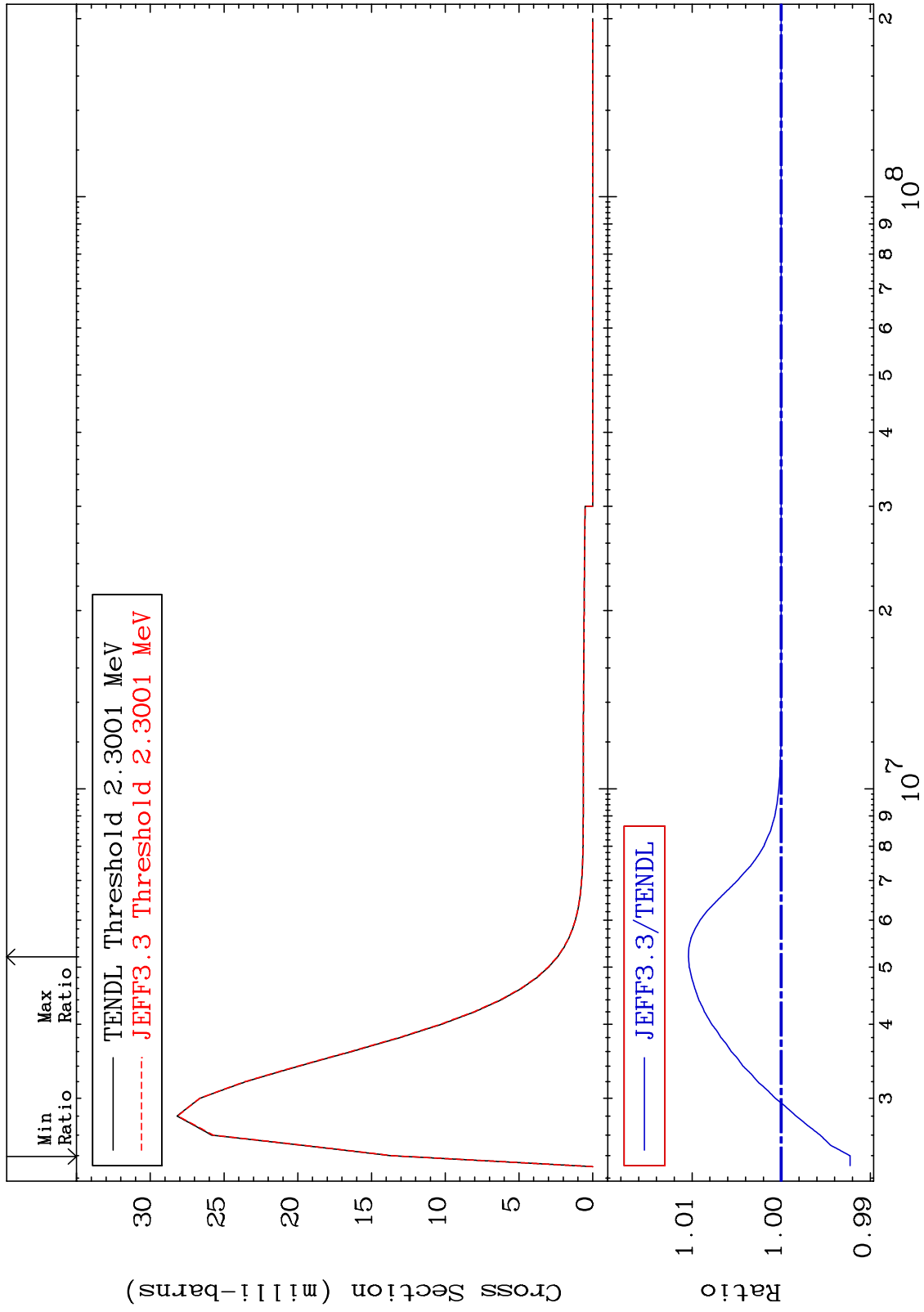
Incident Energy (eV)

54-Xe-124

MAT 5425

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

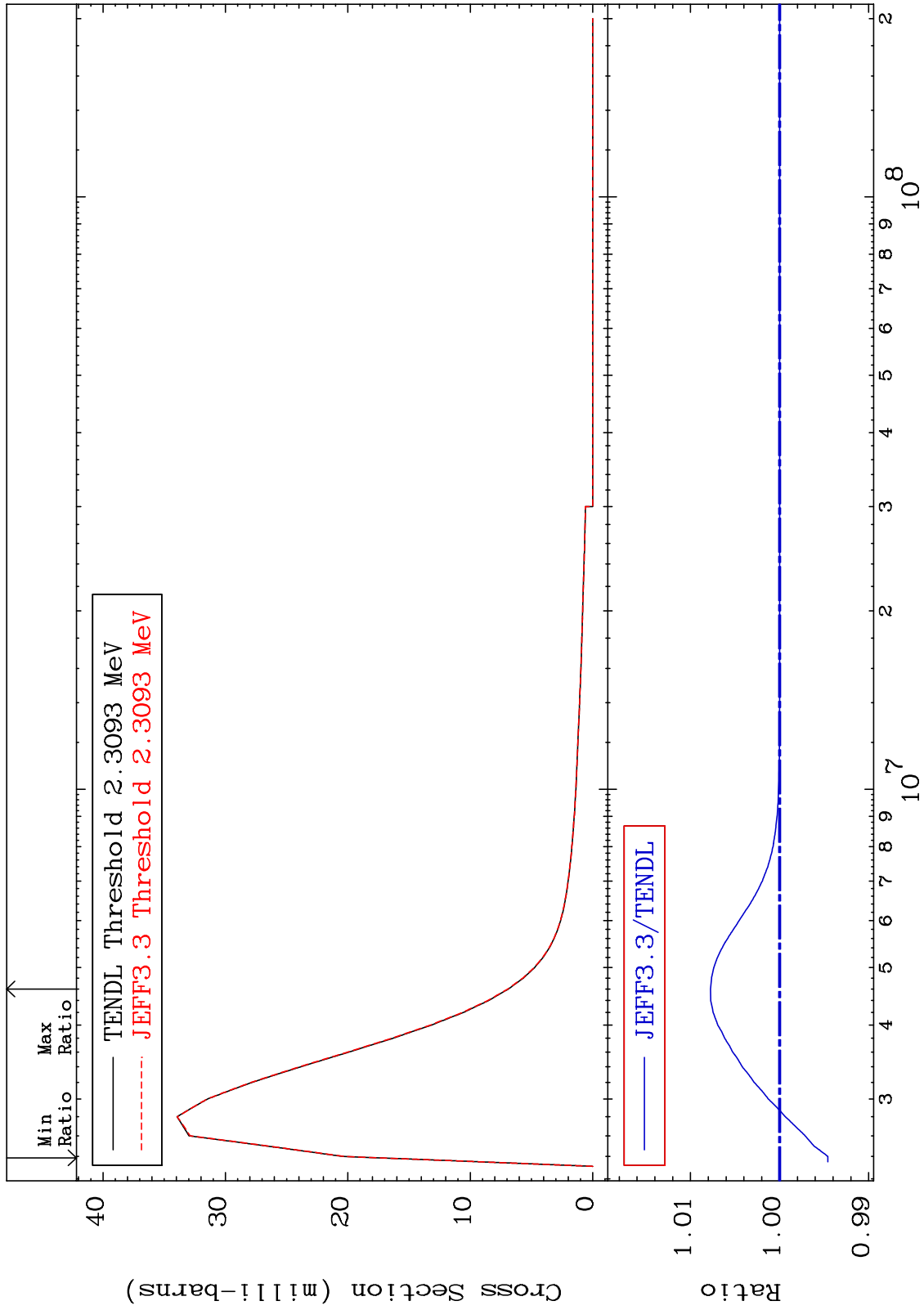
54-Xe-124  
-0.773 To 1.042 %



MAT 5425

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

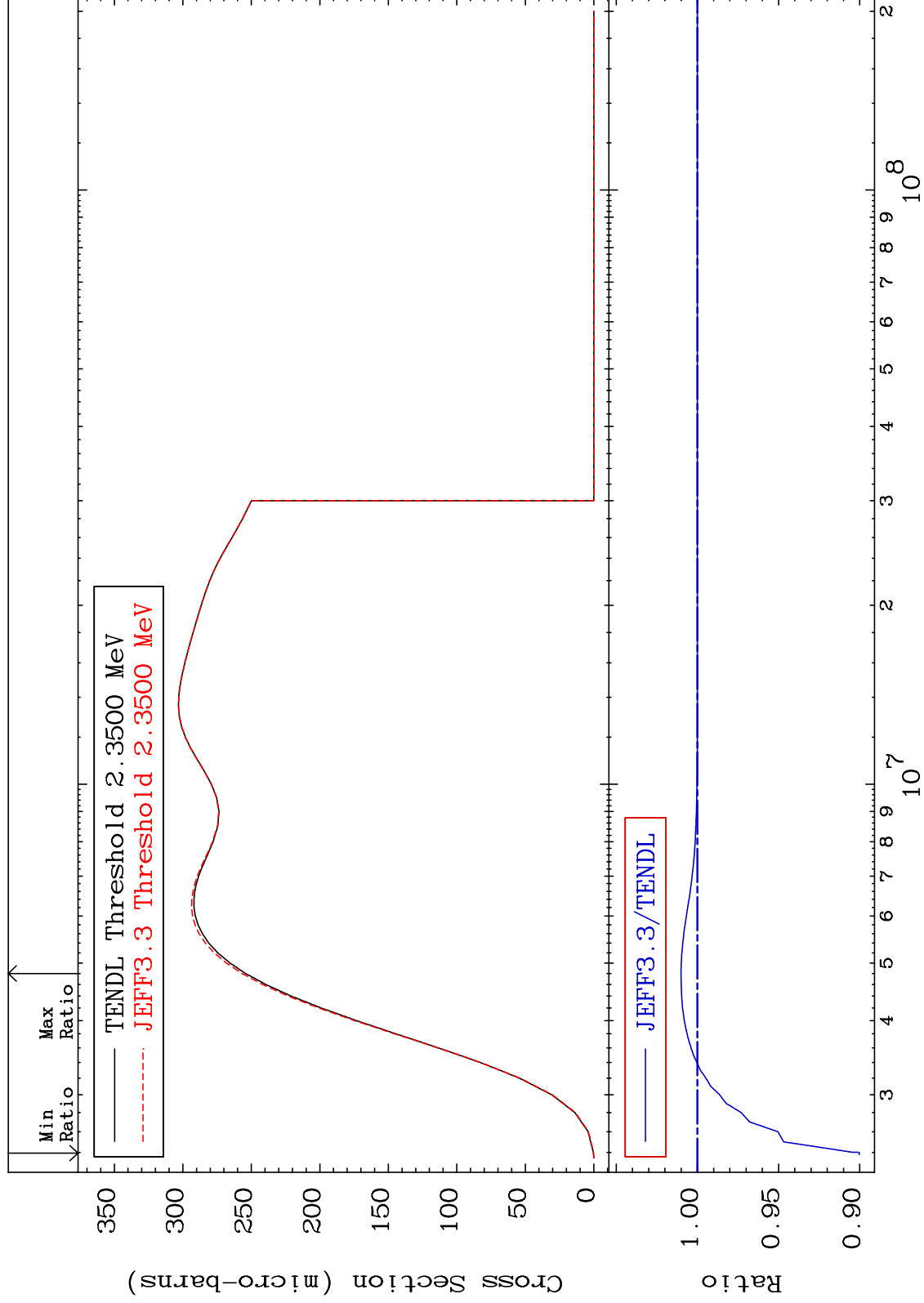
54-Xe-124  
-0.543 To 0.776 %



MAT 5425

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

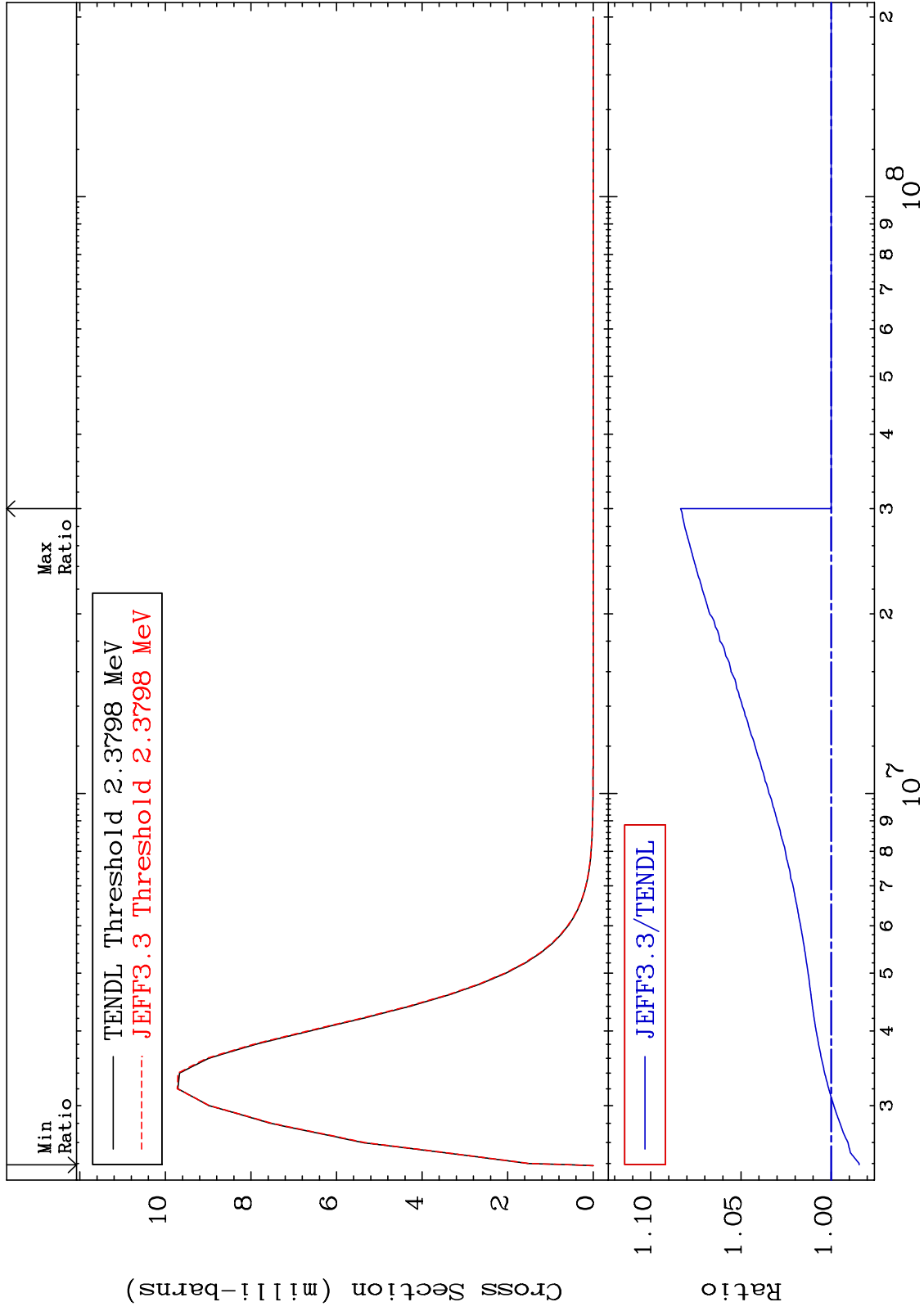
54-Xe-124  
-9.976 To 1.006 %



MAT 5425

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

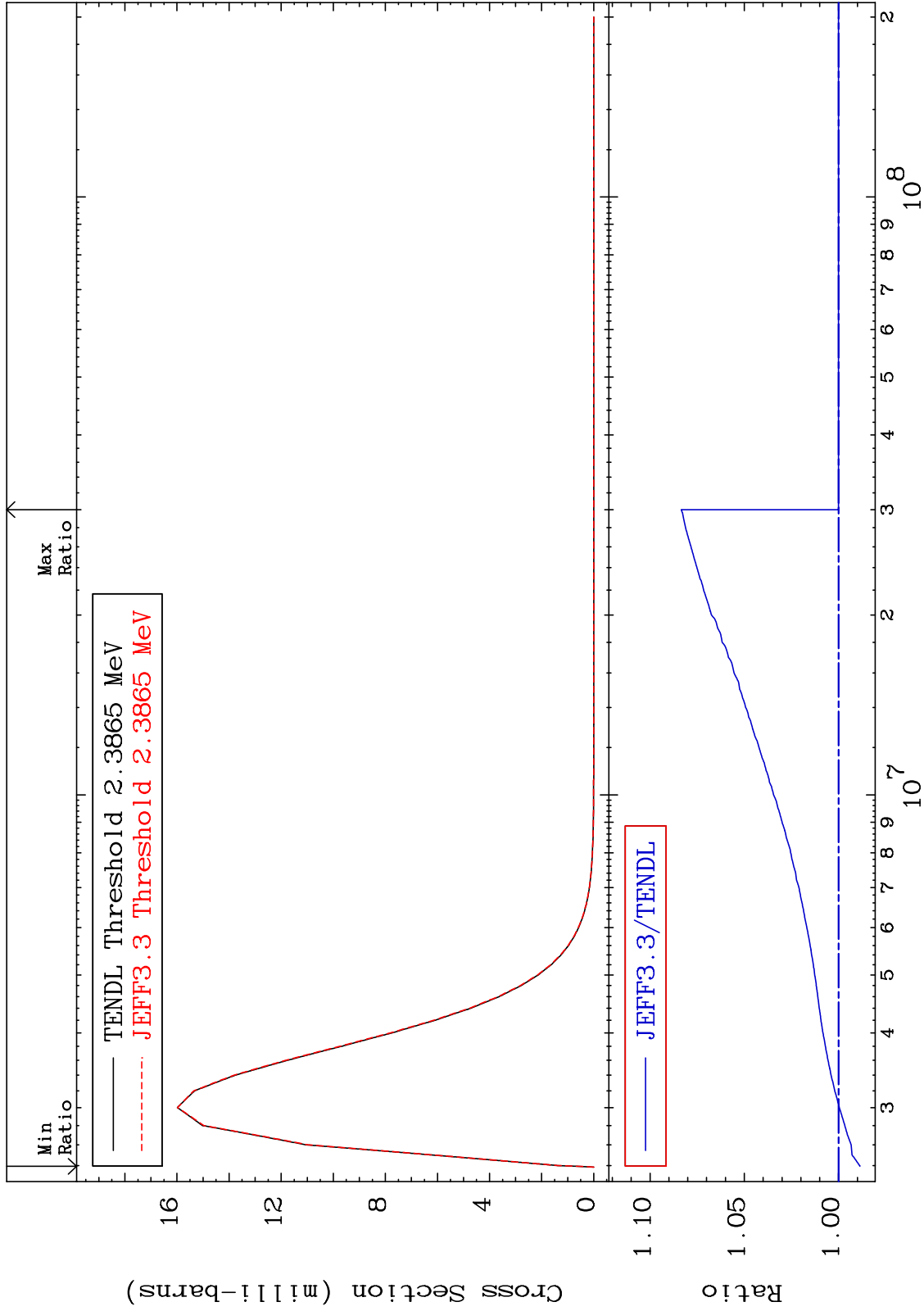
54-Xe-124  
-1.549 To 8.342 %



MAT 5425

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

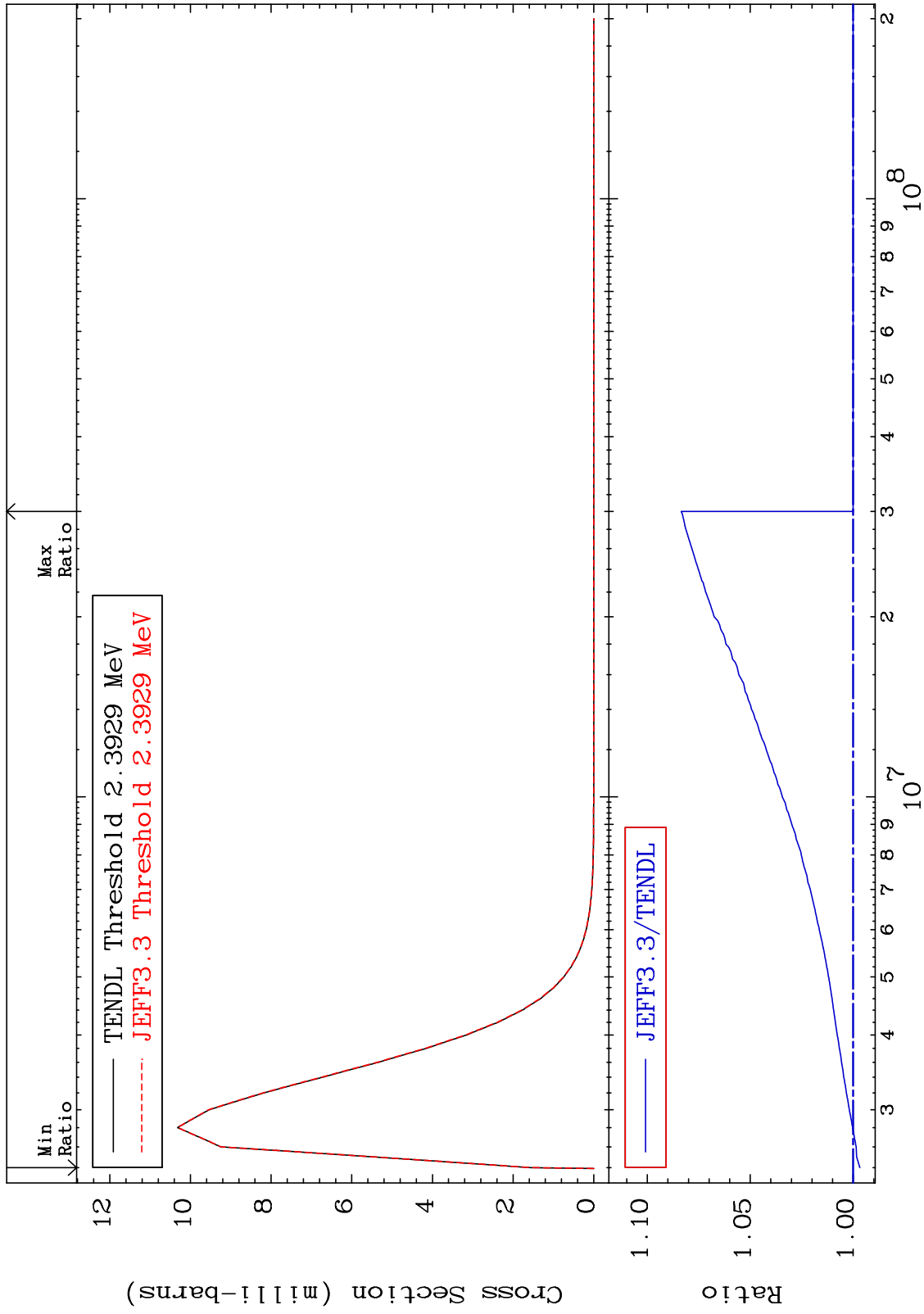
54-Xe-124  
-1.133 To 8.346 %



MAT 5425

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

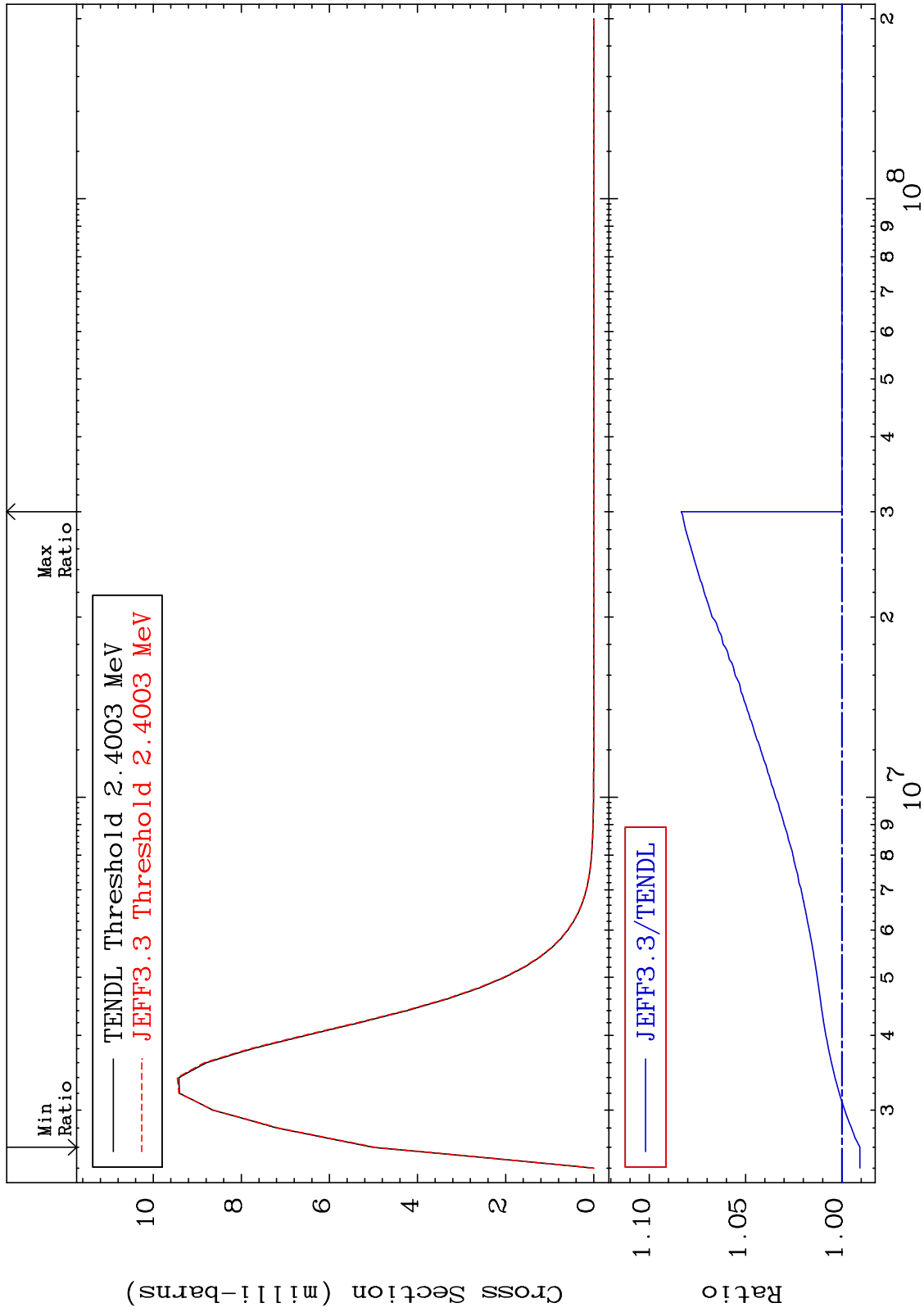
54-Xe-124  
-0.328 To 8.354 %



MAT 5425

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

54-Xe-124  
-0.934 To 8.342 %

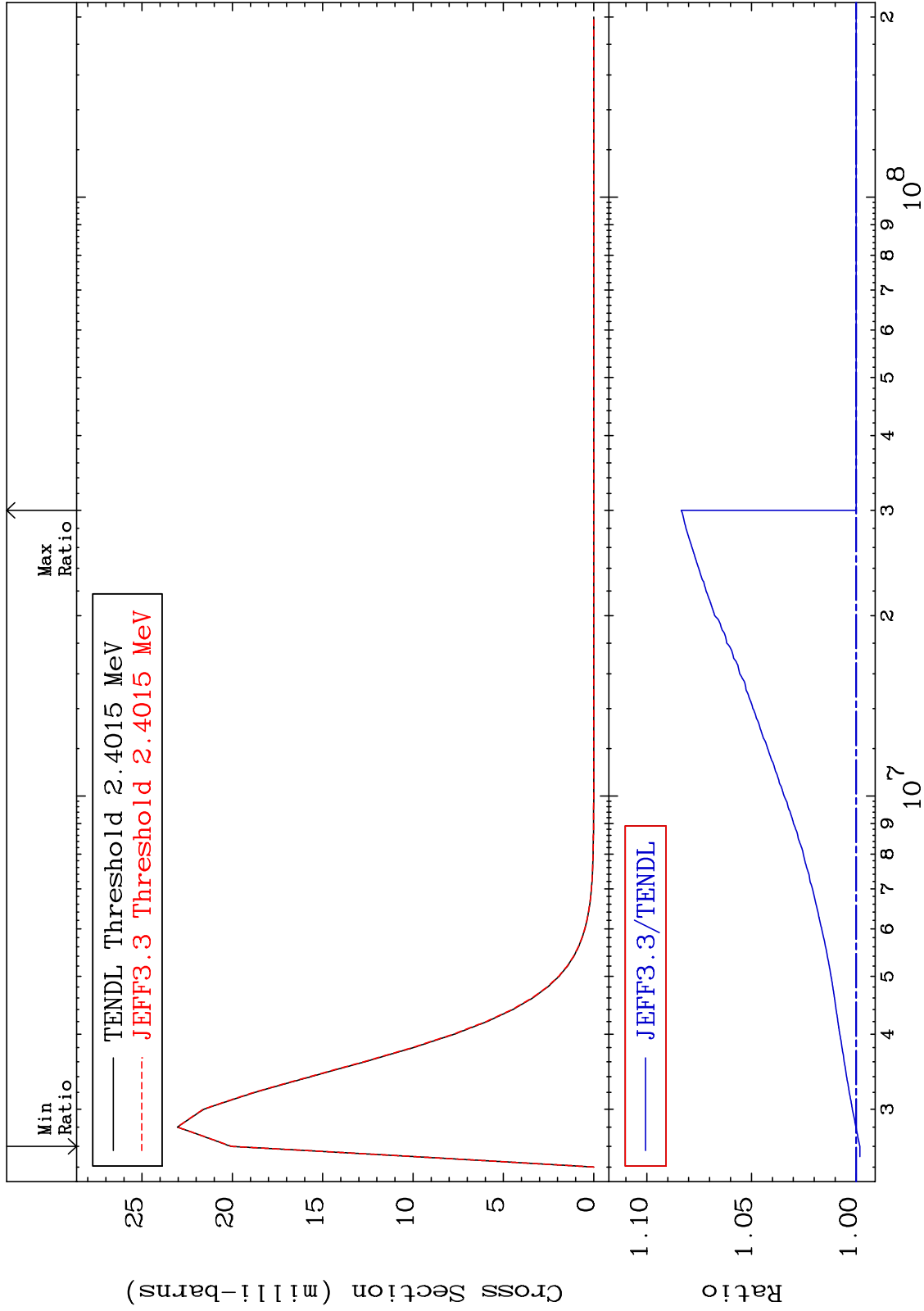




MAT 5425

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

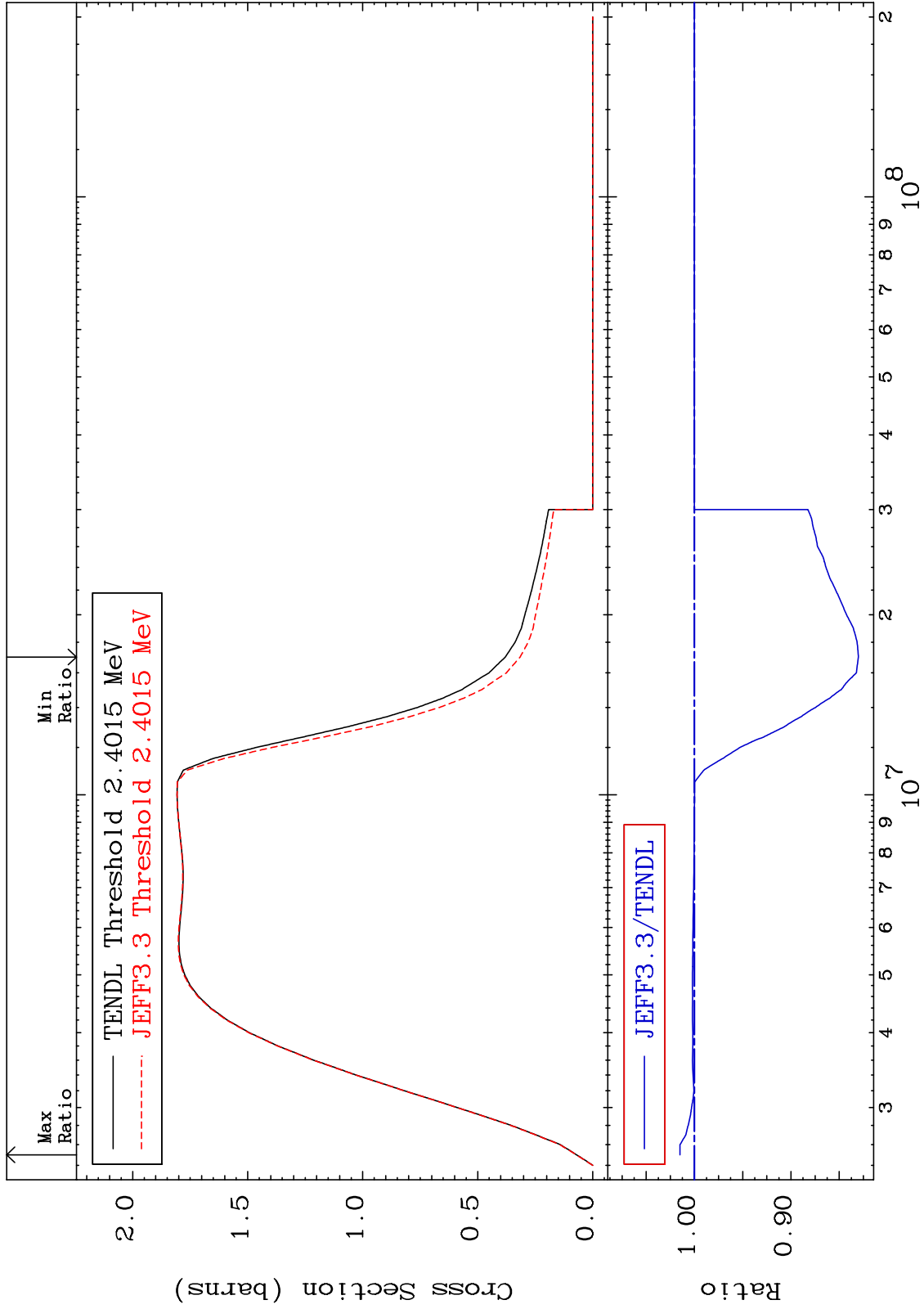
54-Xe-124  
-0.182 To 8.355 %



MAT 5425

(n,n') Continuum  
Cross Section

54-Xe-124  
-16.99 To 1.495 %



49

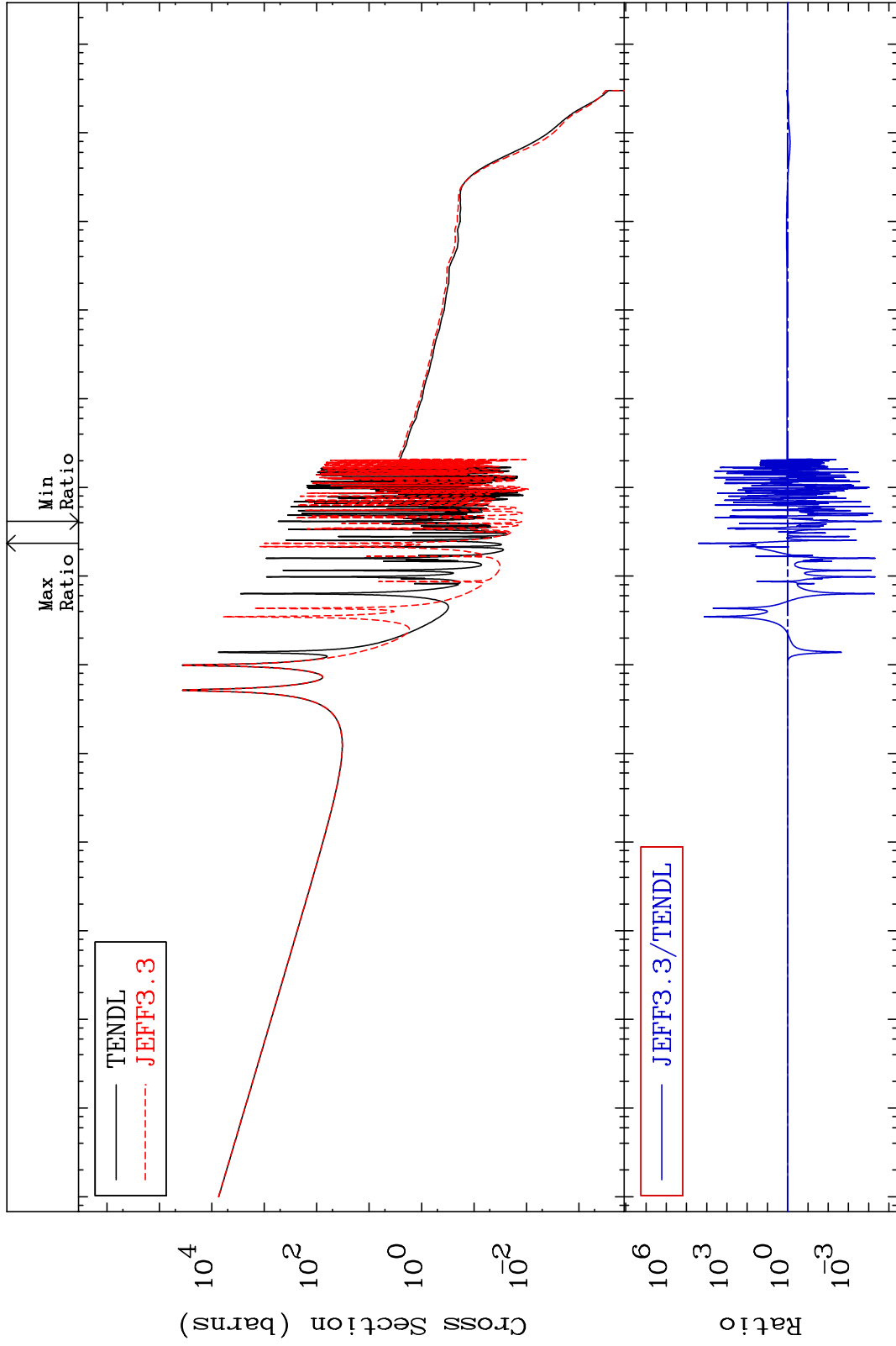
Incident Energy (eV)

54-Xe-124

MAT 5425

(n,  $\gamma$ )  
Cross Section

54-Xe-124  
-100.0 To 9999. %



50

Incident Energy (eV)

54-Xe-124

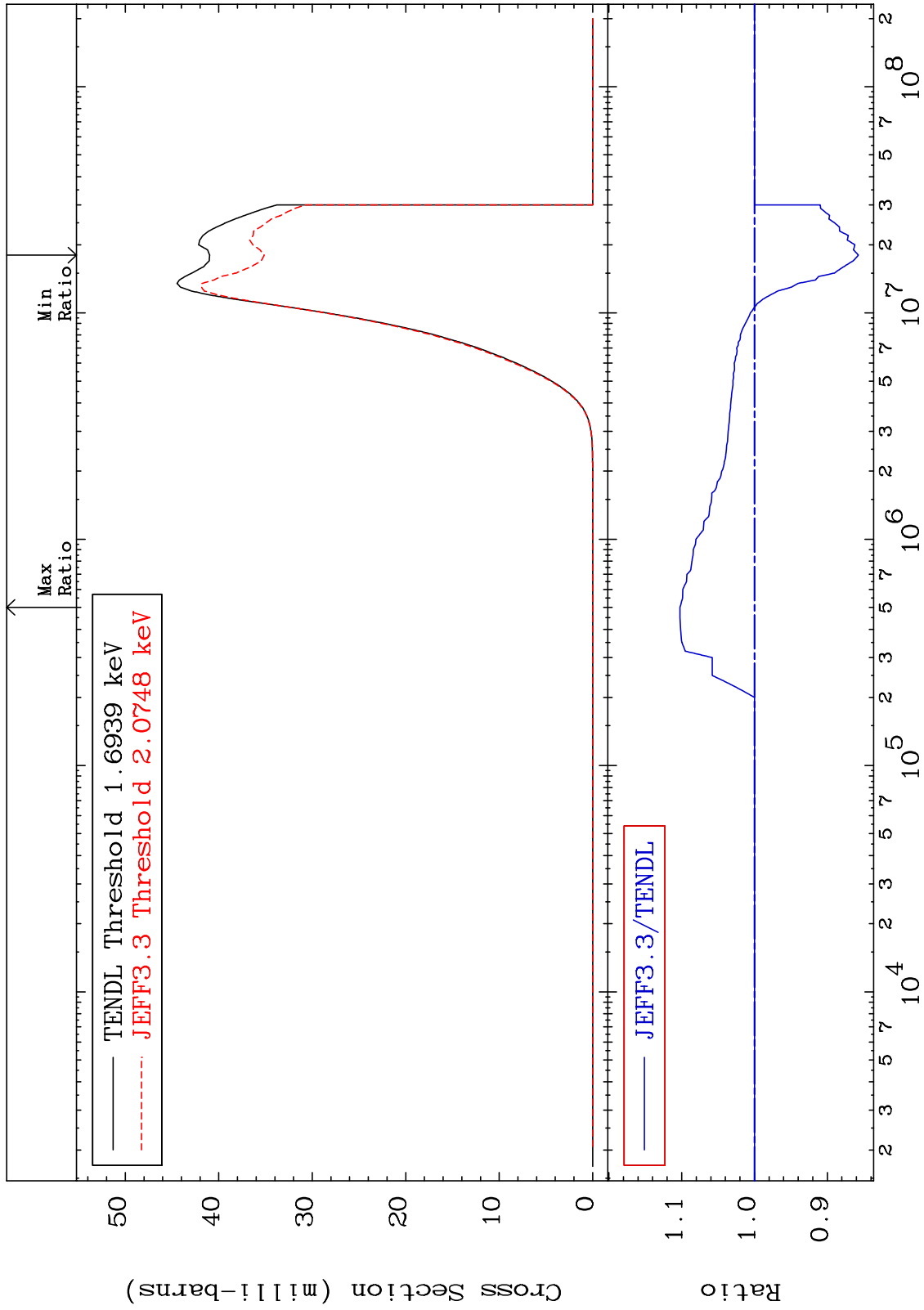
MAT 5425

(n, p)

54-Xe-124

Cross Section

-14.27 To 10.23 %



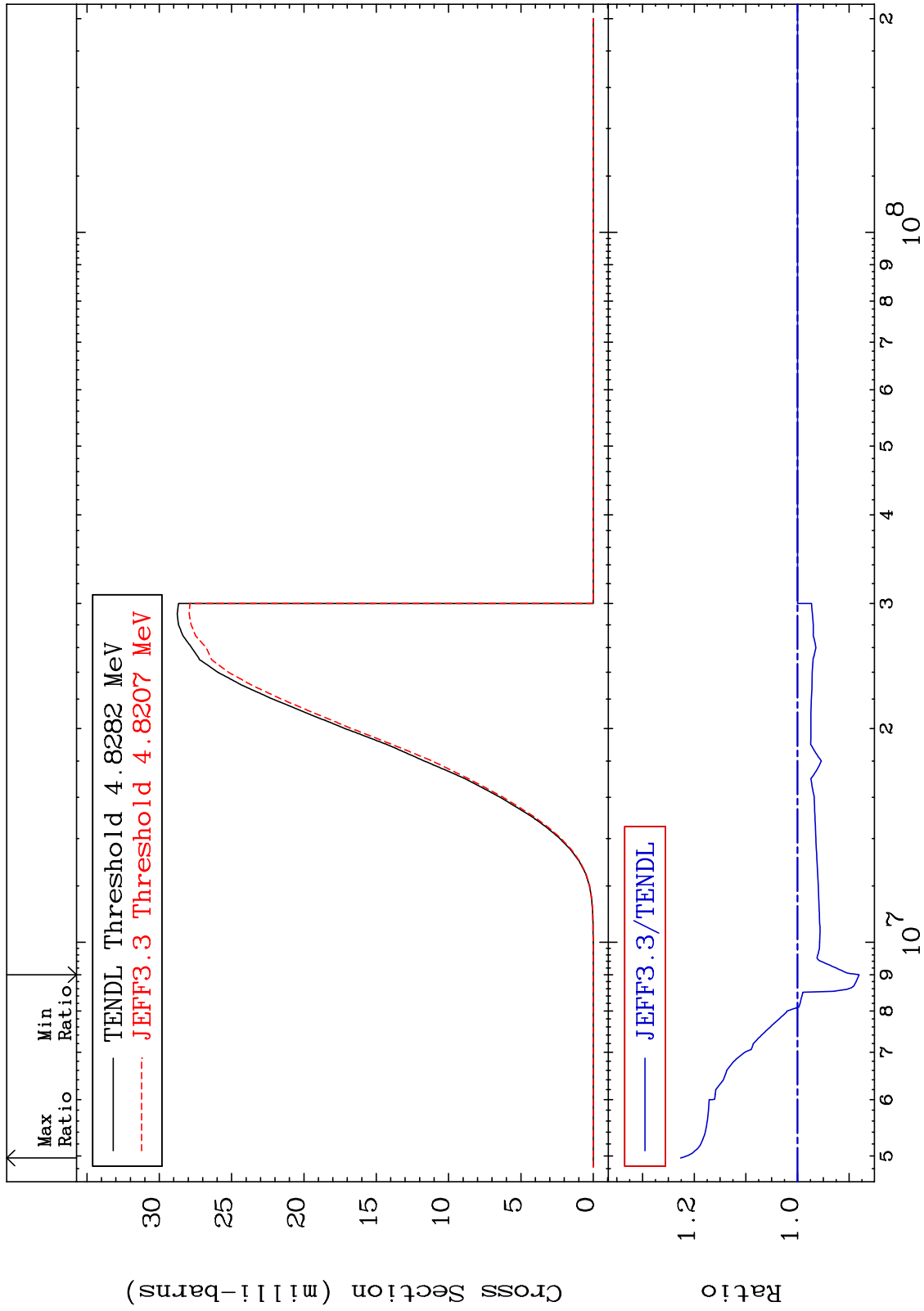
MAT 5425

(n, d)

54-Xe-124

Cross Section

-11.95 To 22.63 %



52

Incident Energy (eV)

54-Xe-124

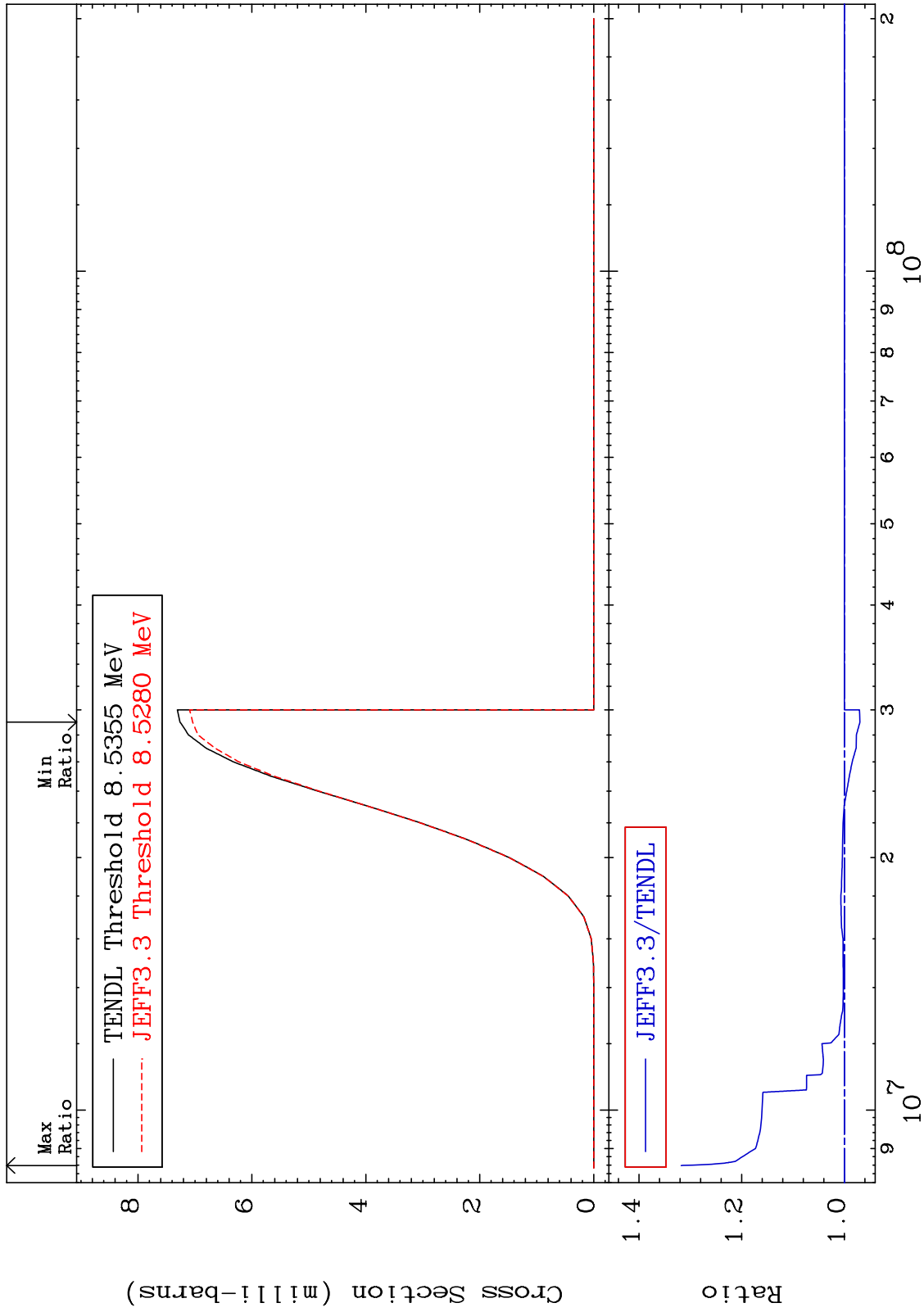
MAT 5425

(n, t)

54-Xe-124

Cross Section

-3.037 To 31.77 %

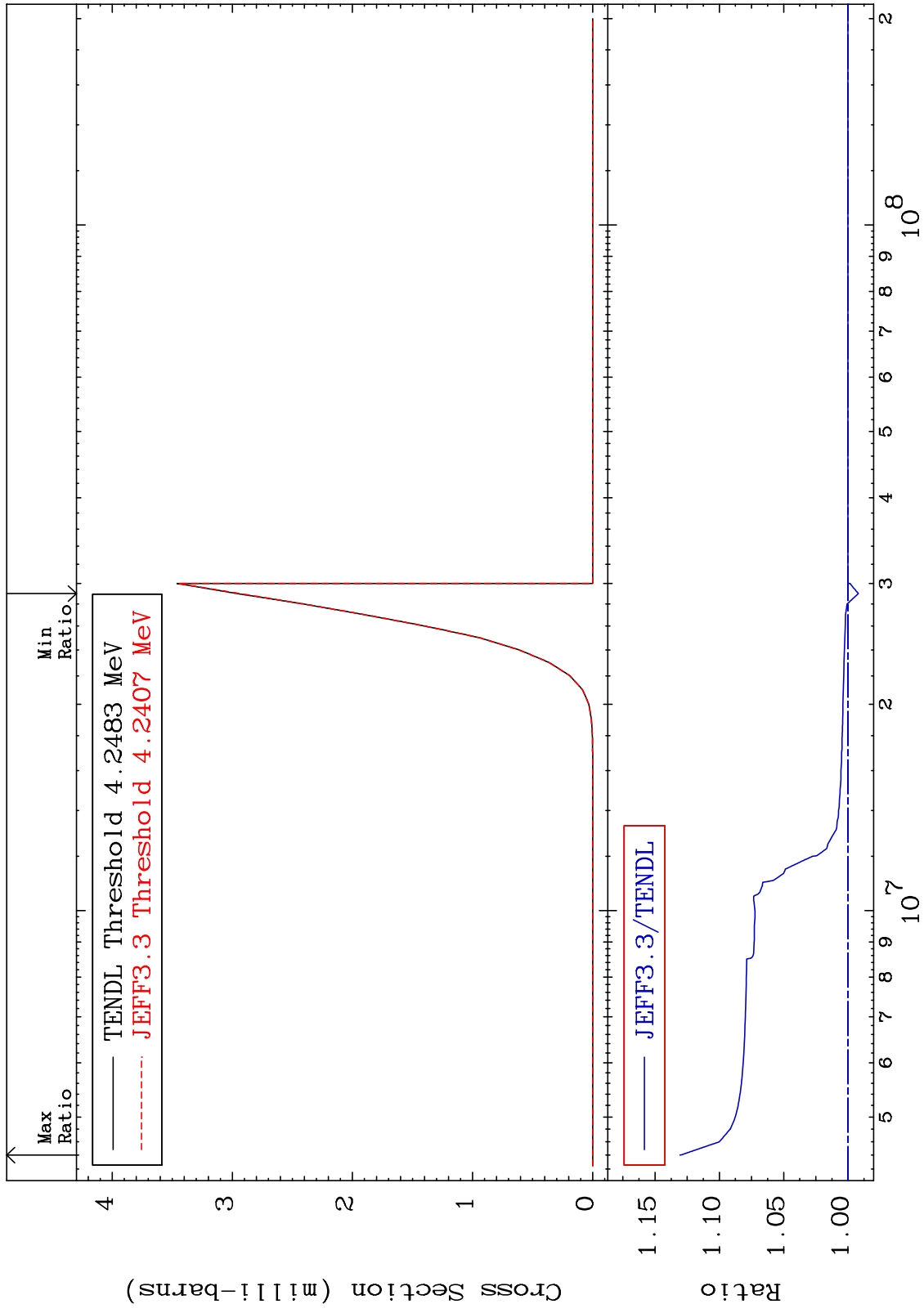


53

Incident Energy (eV)

54-Xe-124

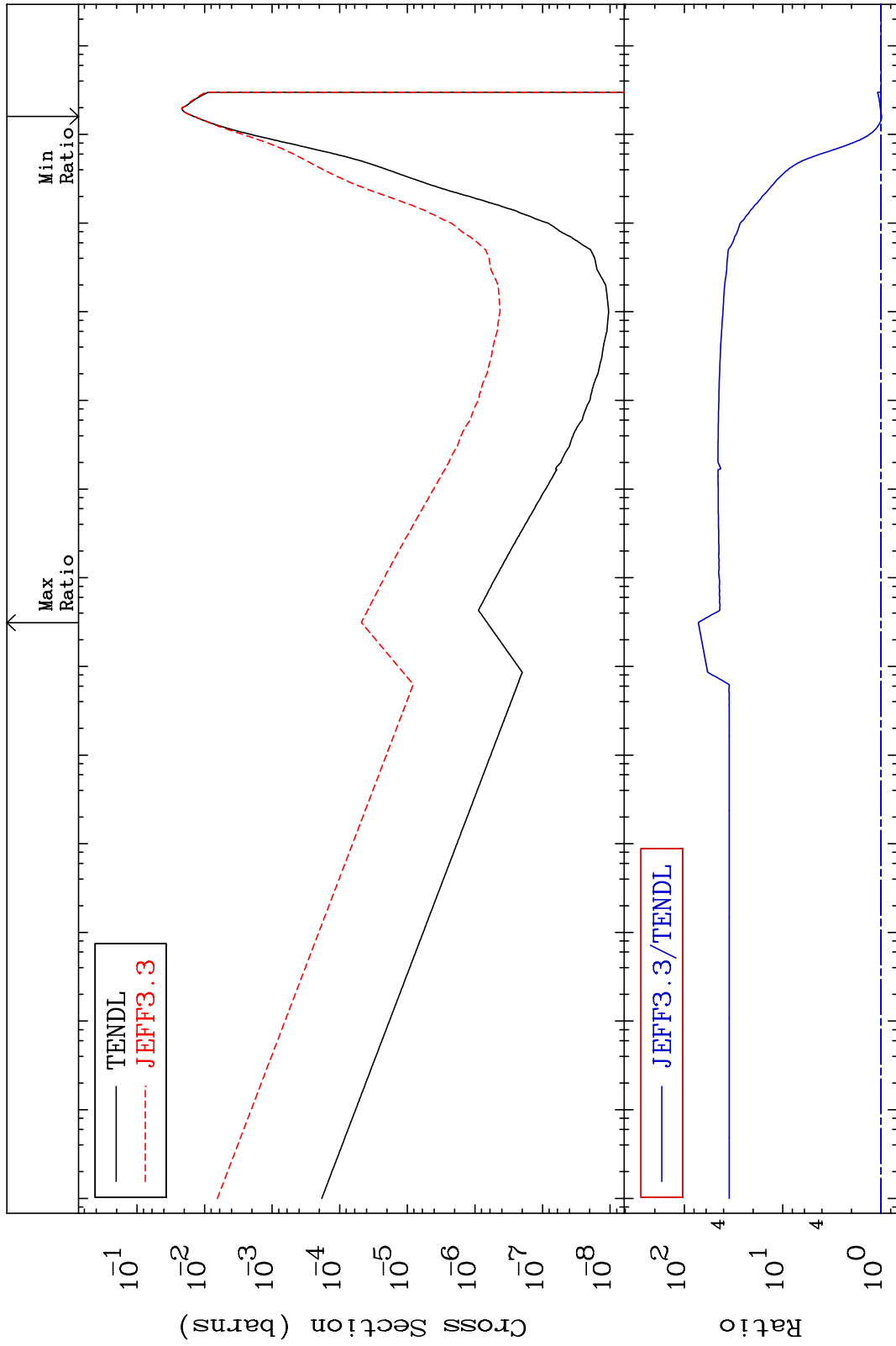
MAT 5425 (n, He-3) 54-Xe-124  
 Cross Section -0.812 To 13.06 %



MAT 5425

54-Xe-124

(n,  $\alpha$ )  
Cross Section  
-1.075 To 7111. %



Incident Energy (eV) 54-Xe-124



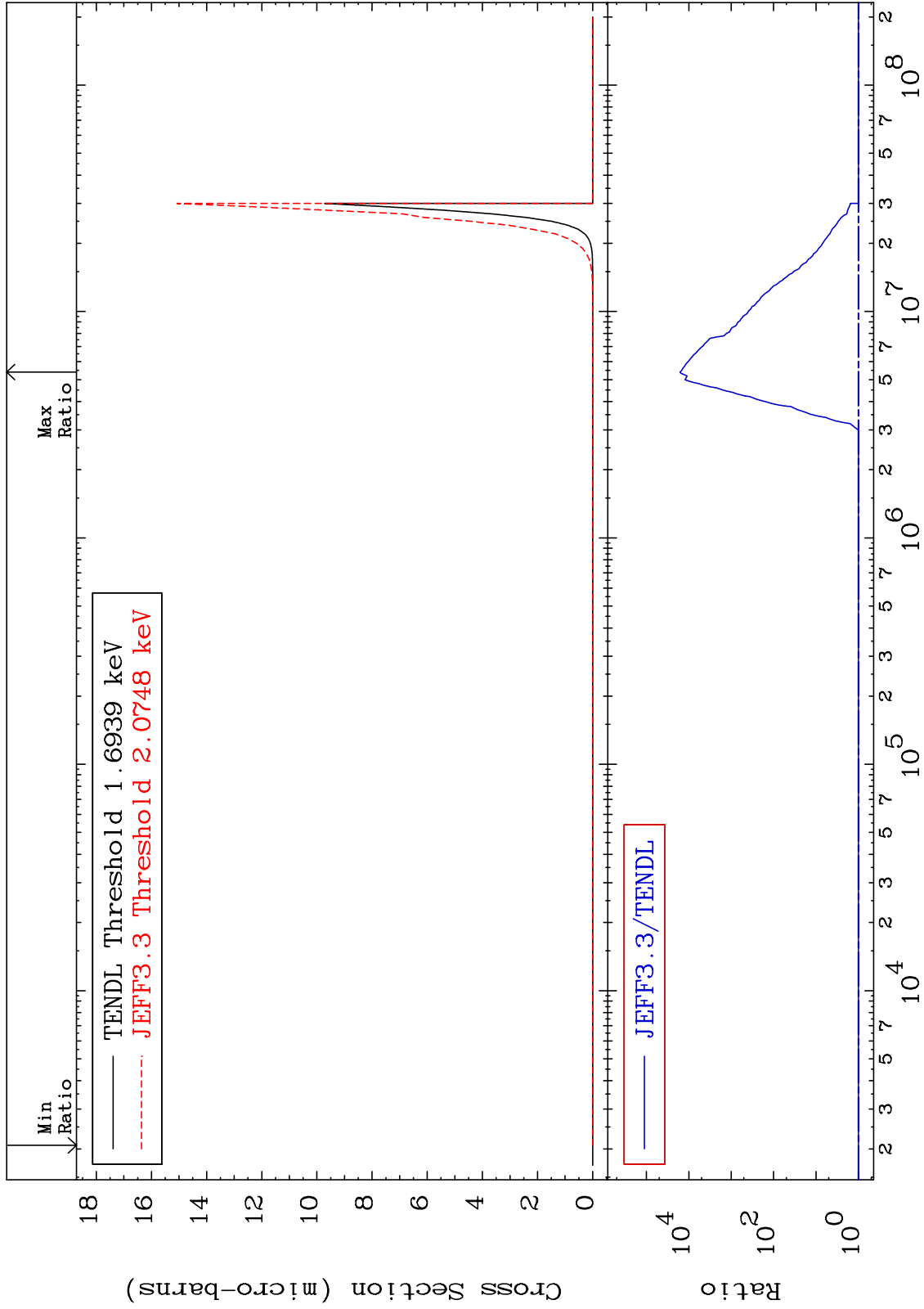
MAT 5425

(n,2α)

54-Xe-124

Cross Section

0.000 To 9999. %



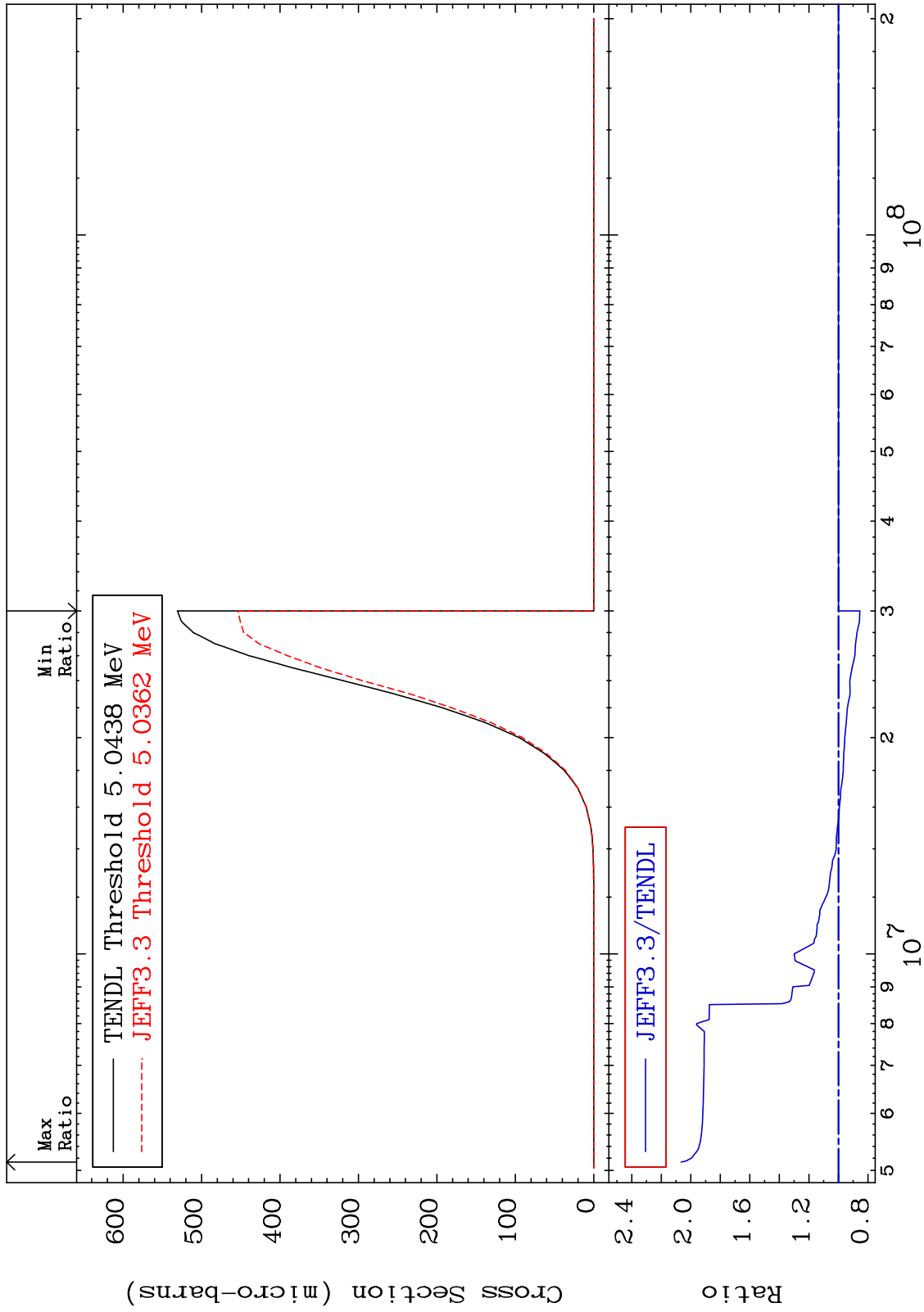
MAT 5425

(n,2p)

54-Xe-124

Cross Section

-14.57 To 106.5 %



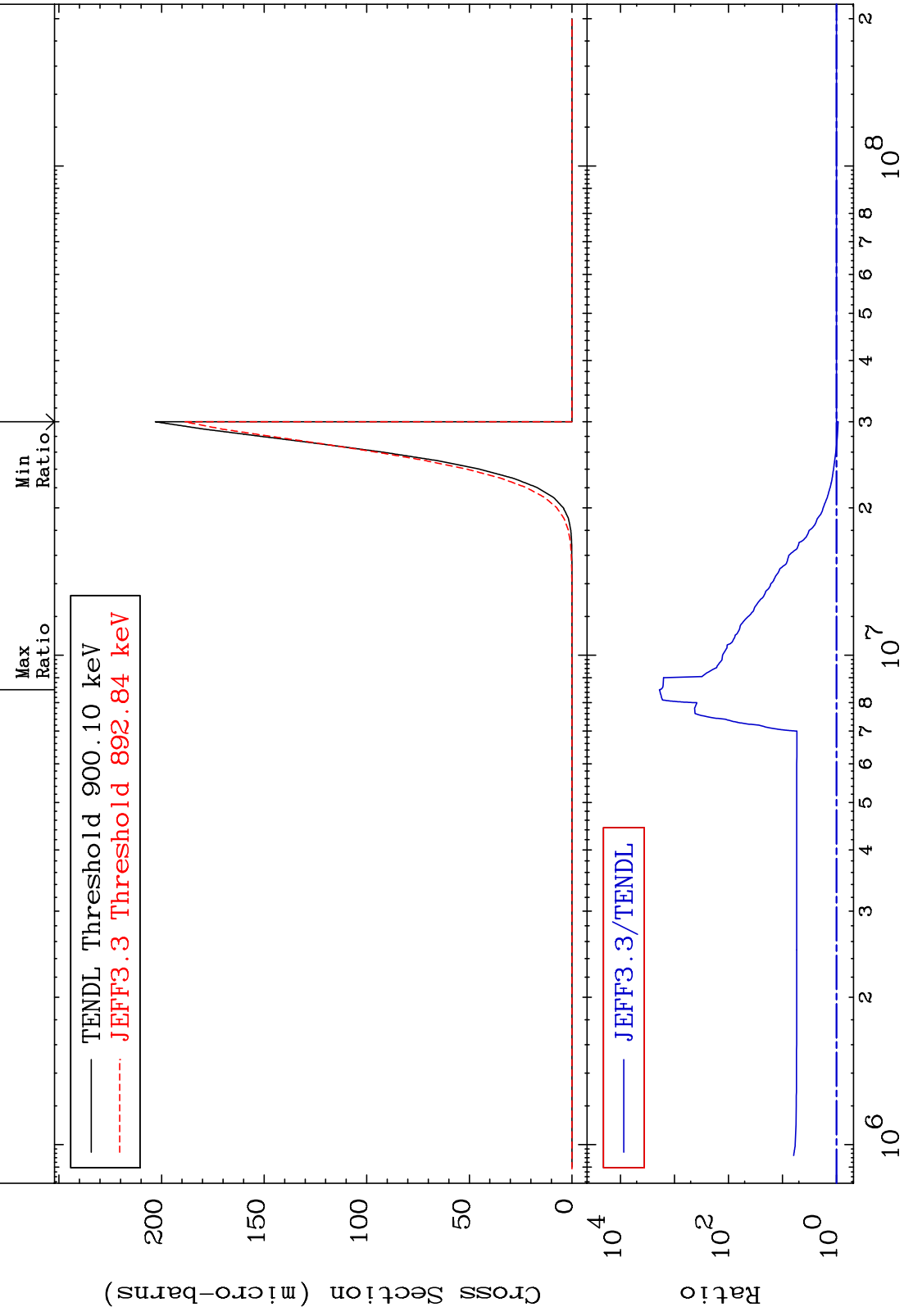
MAT 5425

(n,p)  $\alpha$

54-Xe-124

-7.020 To 9999. %

Cross Section



58

Incident Energy (eV)

54-Xe-124

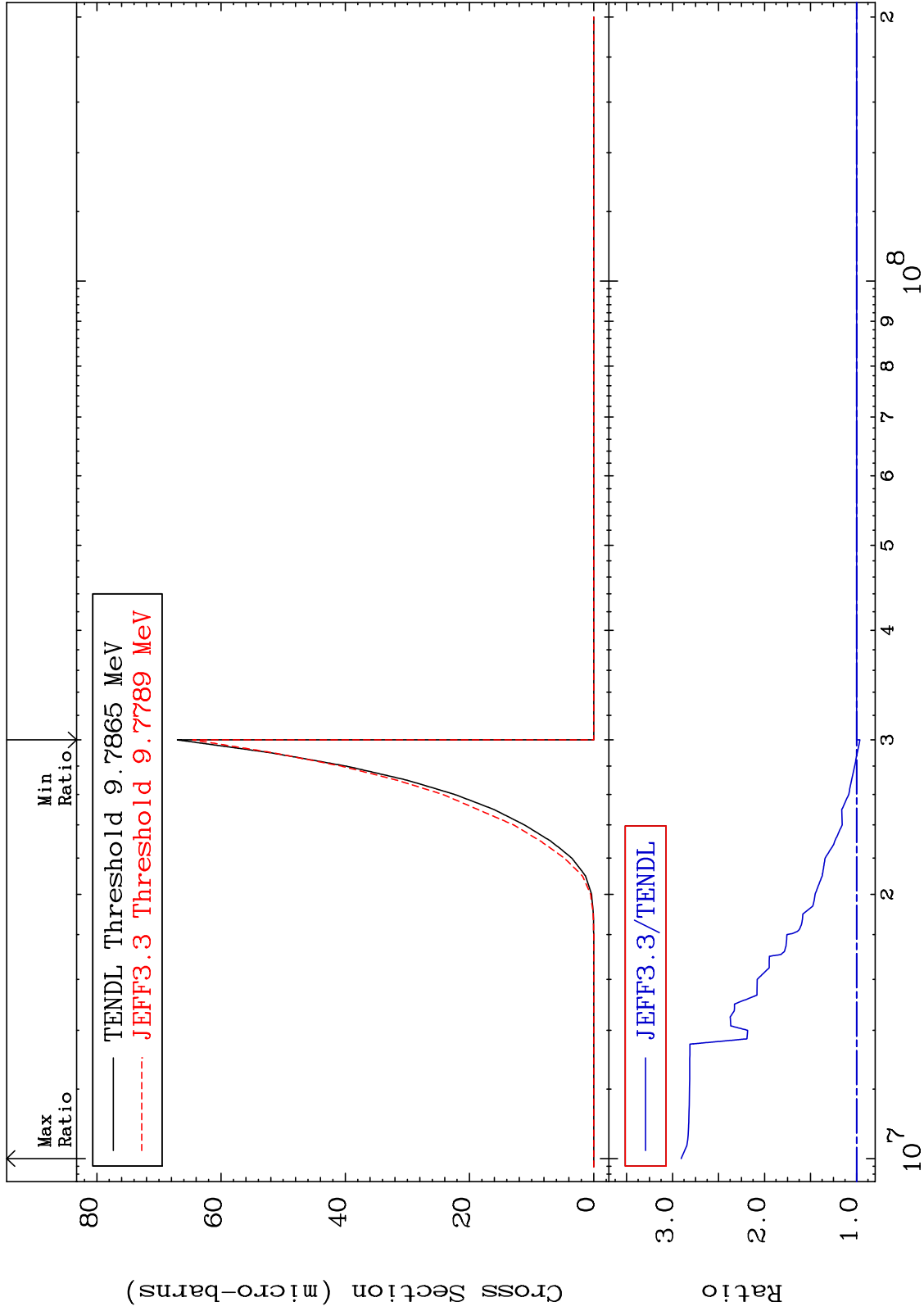
MAT 5425

(n,p) d

54-Xe-124

Cross Section

-3.685 To 190.6 %



54-Xe-124

59

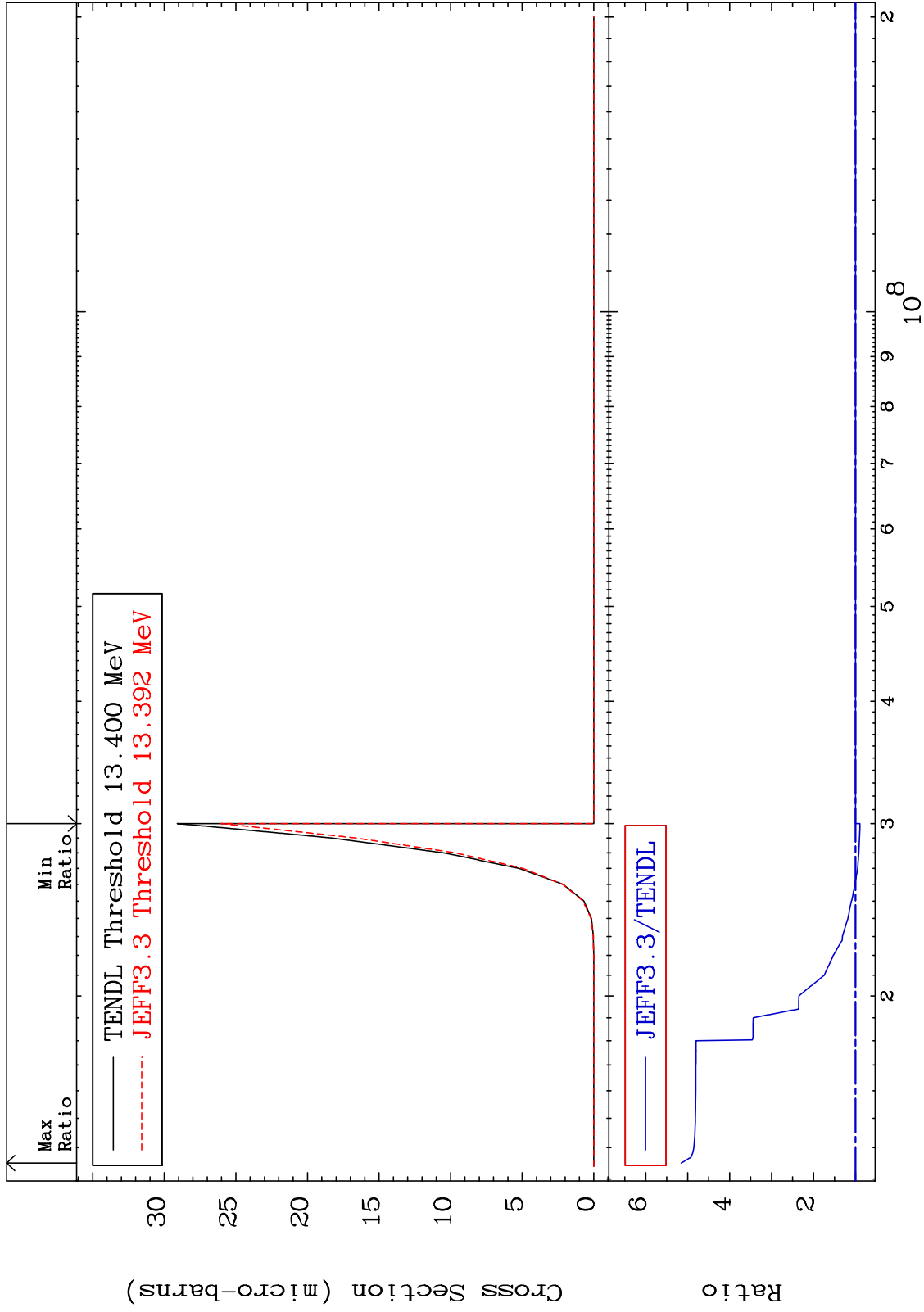
MAT 5425

(n,p) t

54-Xe-124

Cross Section

-10.55 To 415.4 %



60

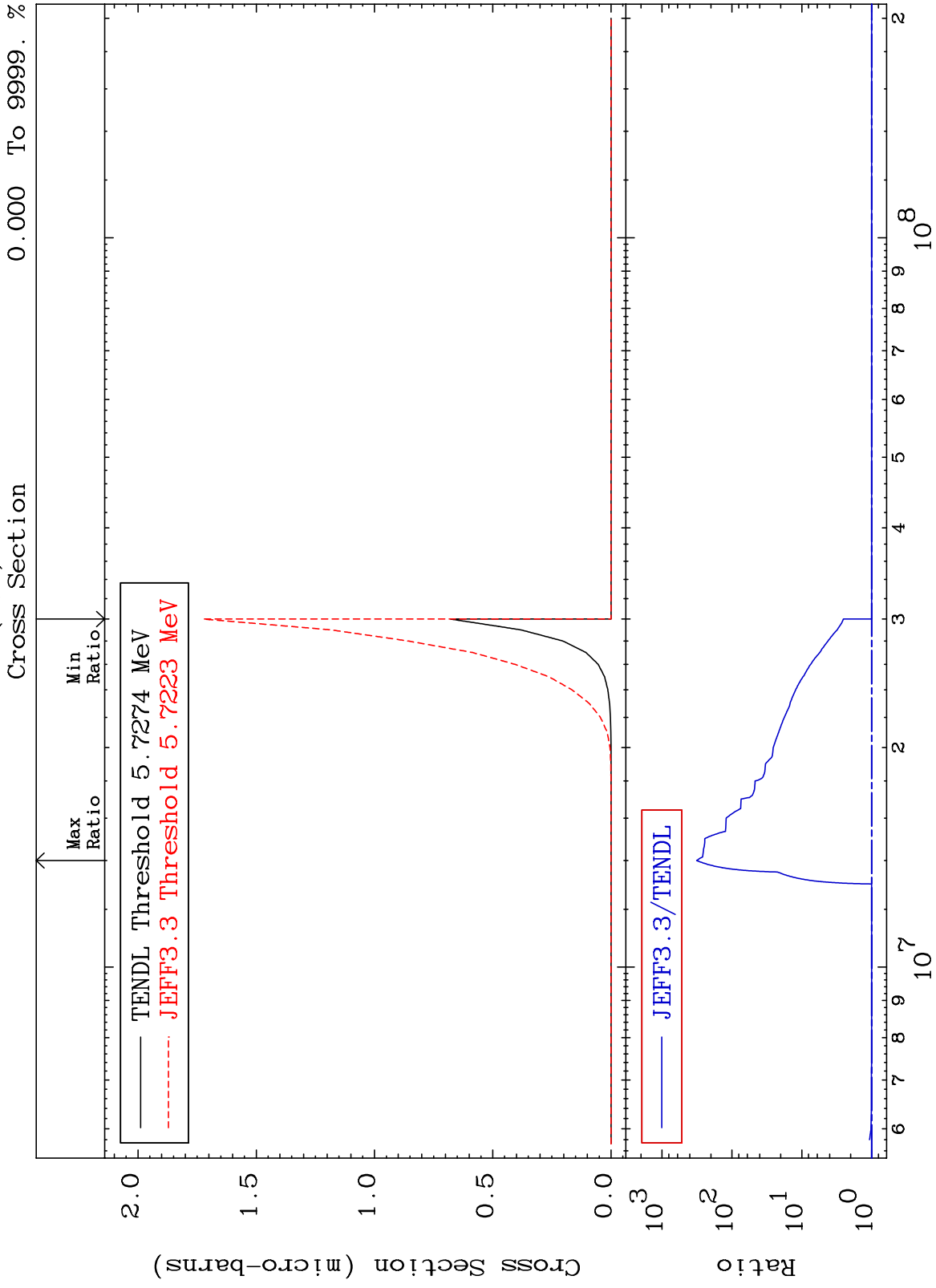
Incident Energy (eV)

54-Xe-124

MAT 5425

(n,d)  $\alpha$

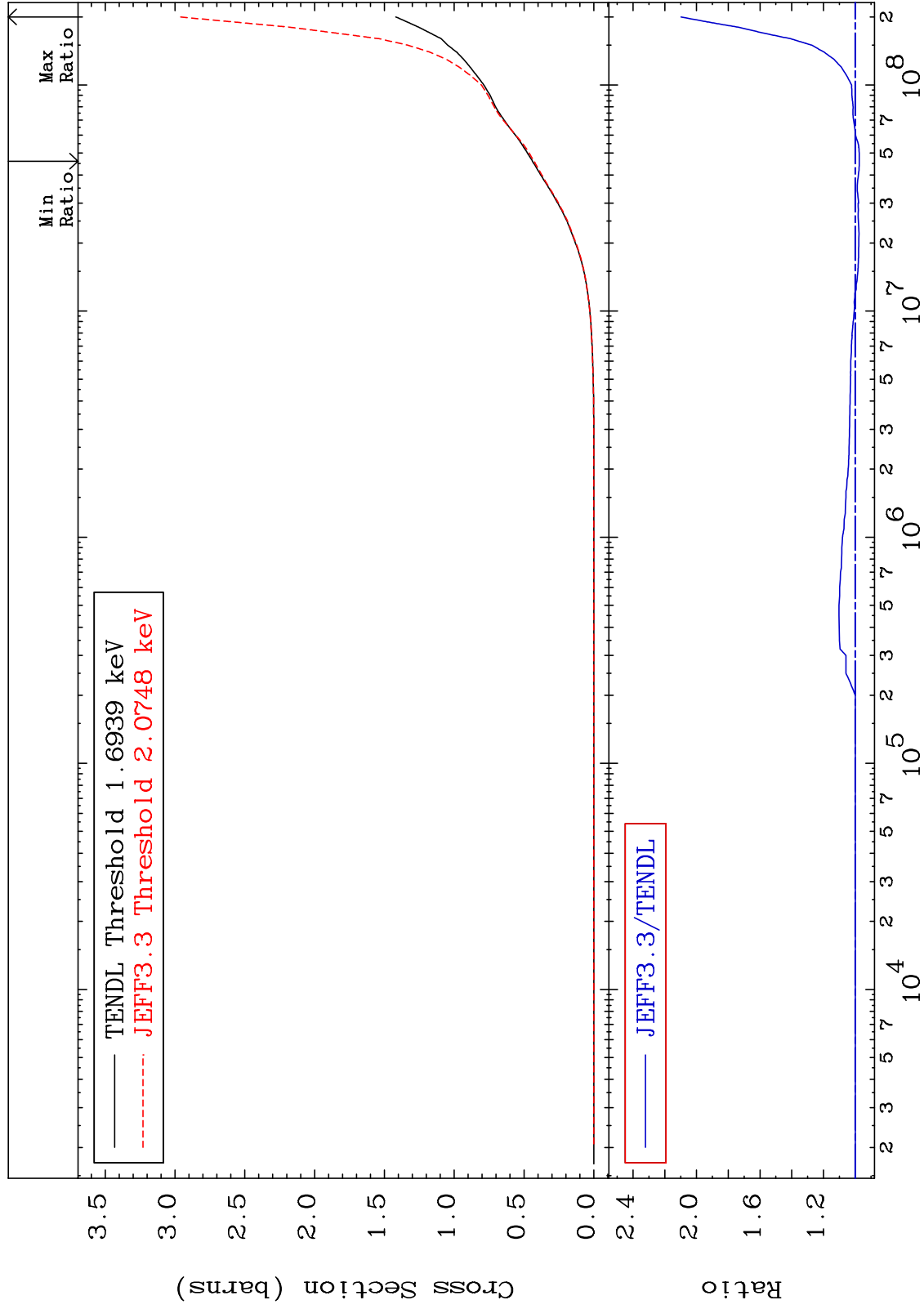
54-Xe-124  
0.000 To 9999. %



MAT 5425

Hydrogen Production  
Cross Section

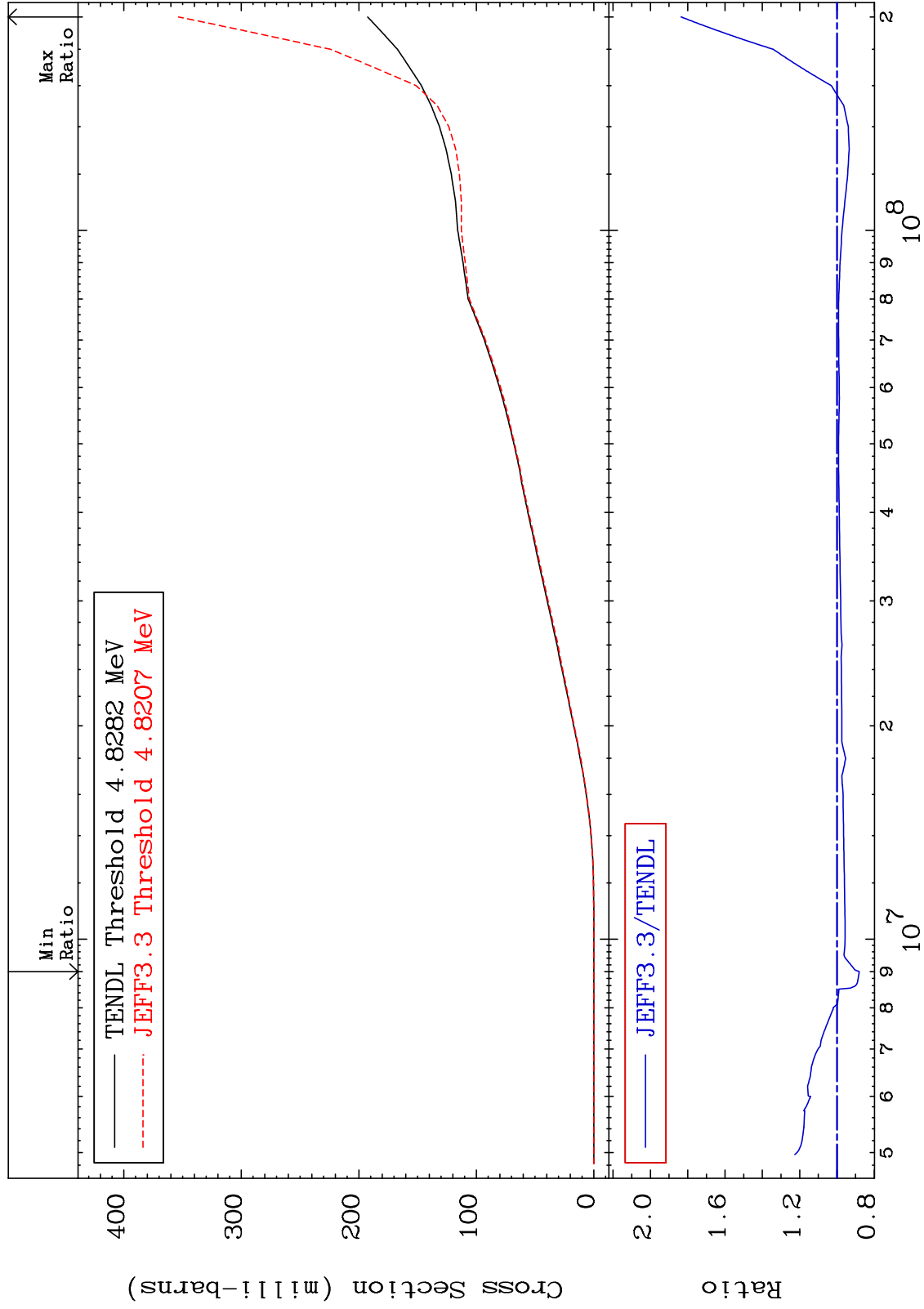
54-Xe-124  
-2.567 To 109.8 %



MAT 5425

Deuterium Production  
Cross Section

54-Xe-124  
-11.95 To 83.58 %

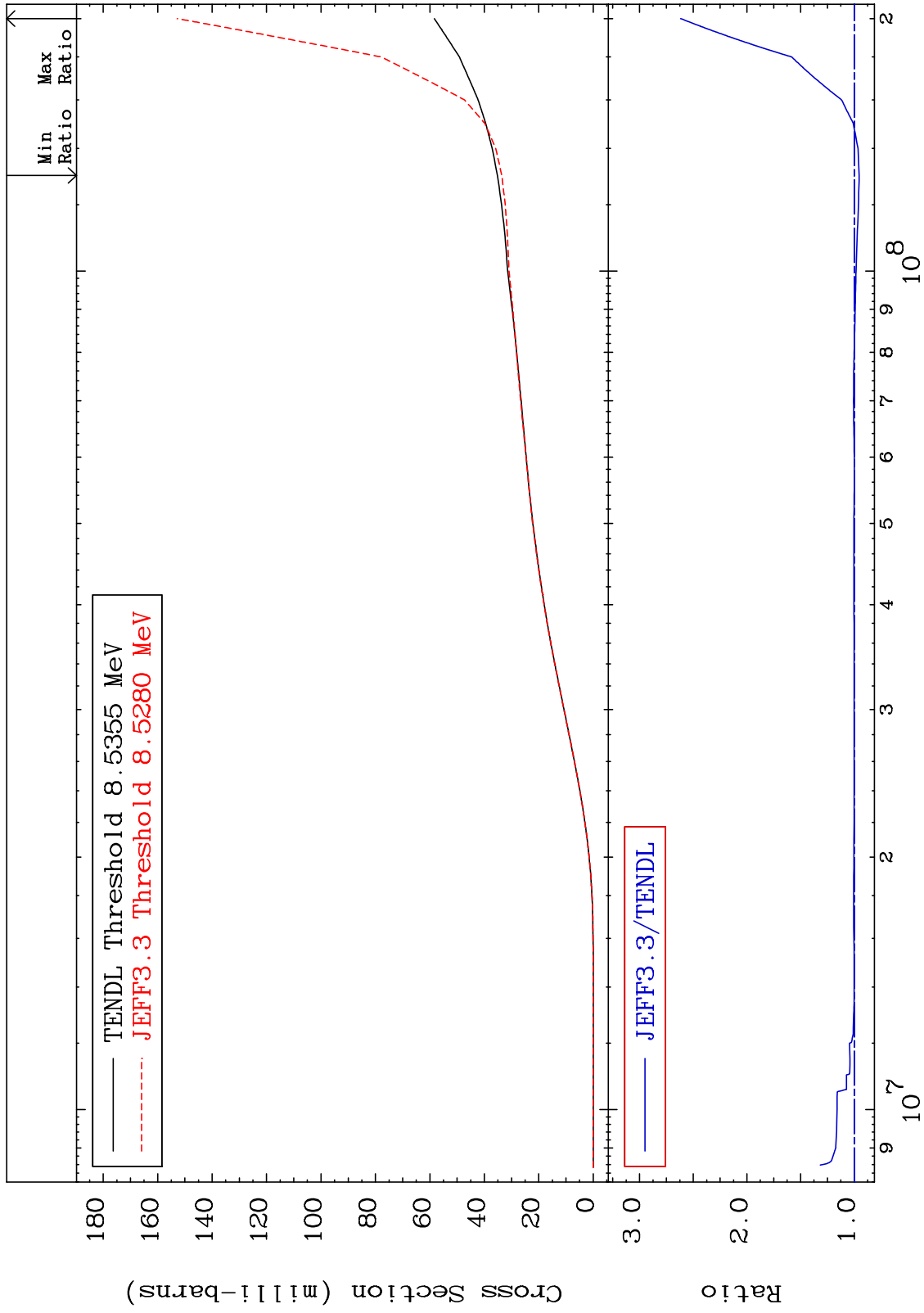




MAT 5425

Tritium Production  
Cross Section

54-Xe-124  
-4.557 To 161.7 %



64

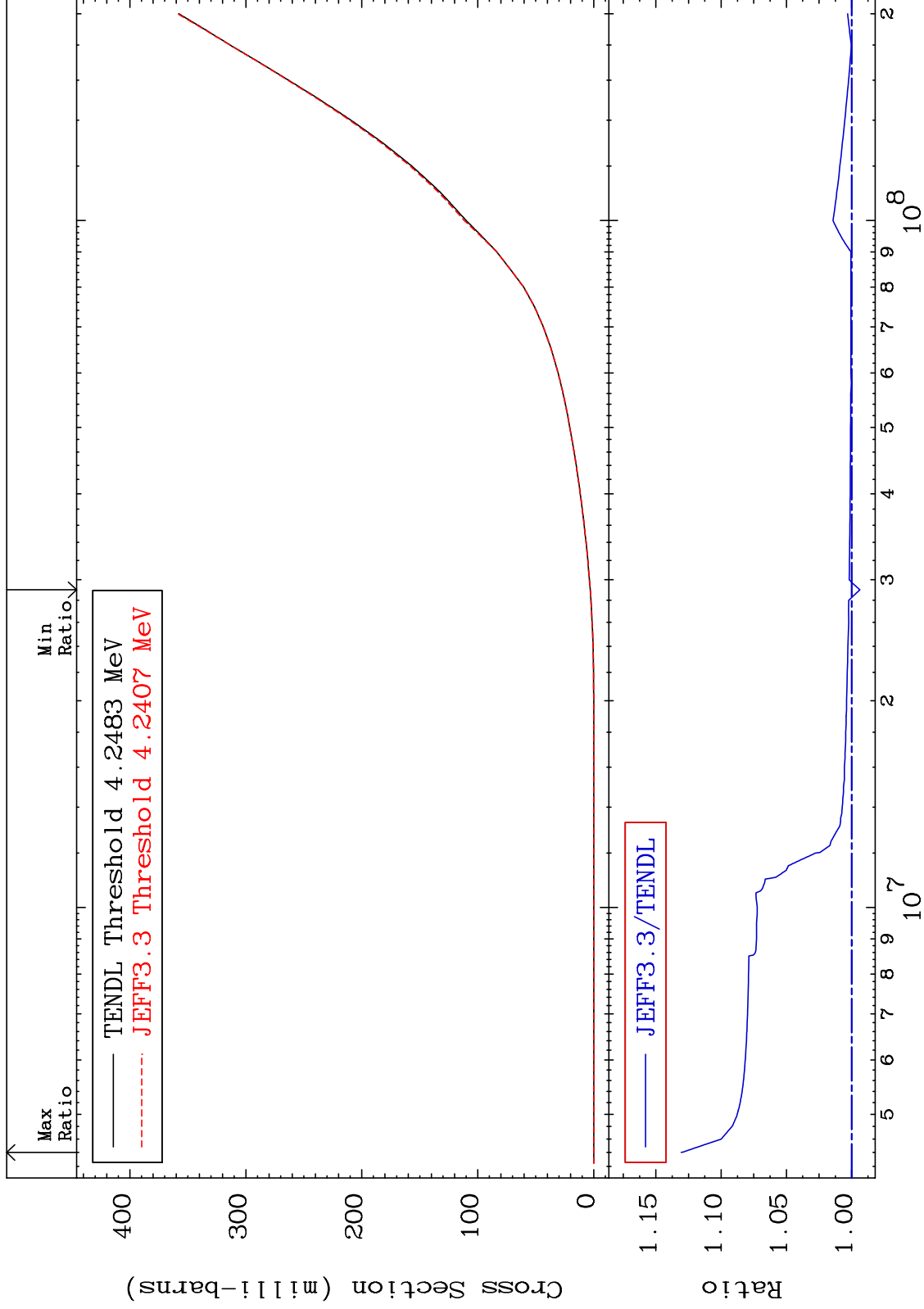
Incident Energy (eV)

54-Xe-124

MAT 5425

He-3 Production  
Cross Section

54-Xe-124  
-0.636 To 13.06 %



65

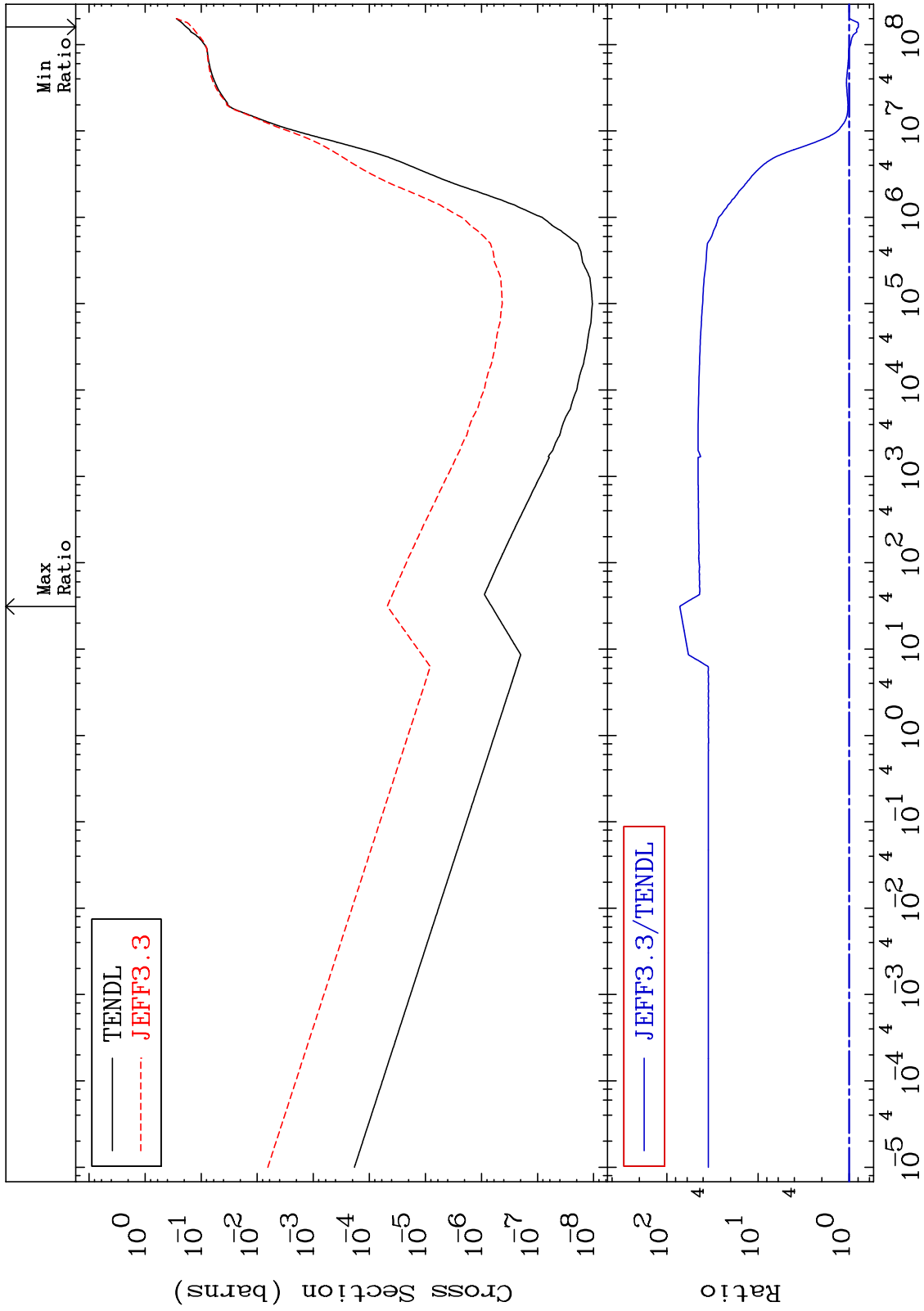
Incident Energy (eV)

54-Xe-124

MAT 5425

He-4 Production  
Cross Section

54-Xe-124  
-20.59 To 7111. %



66

Incident Energy (eV)

54-Xe-124

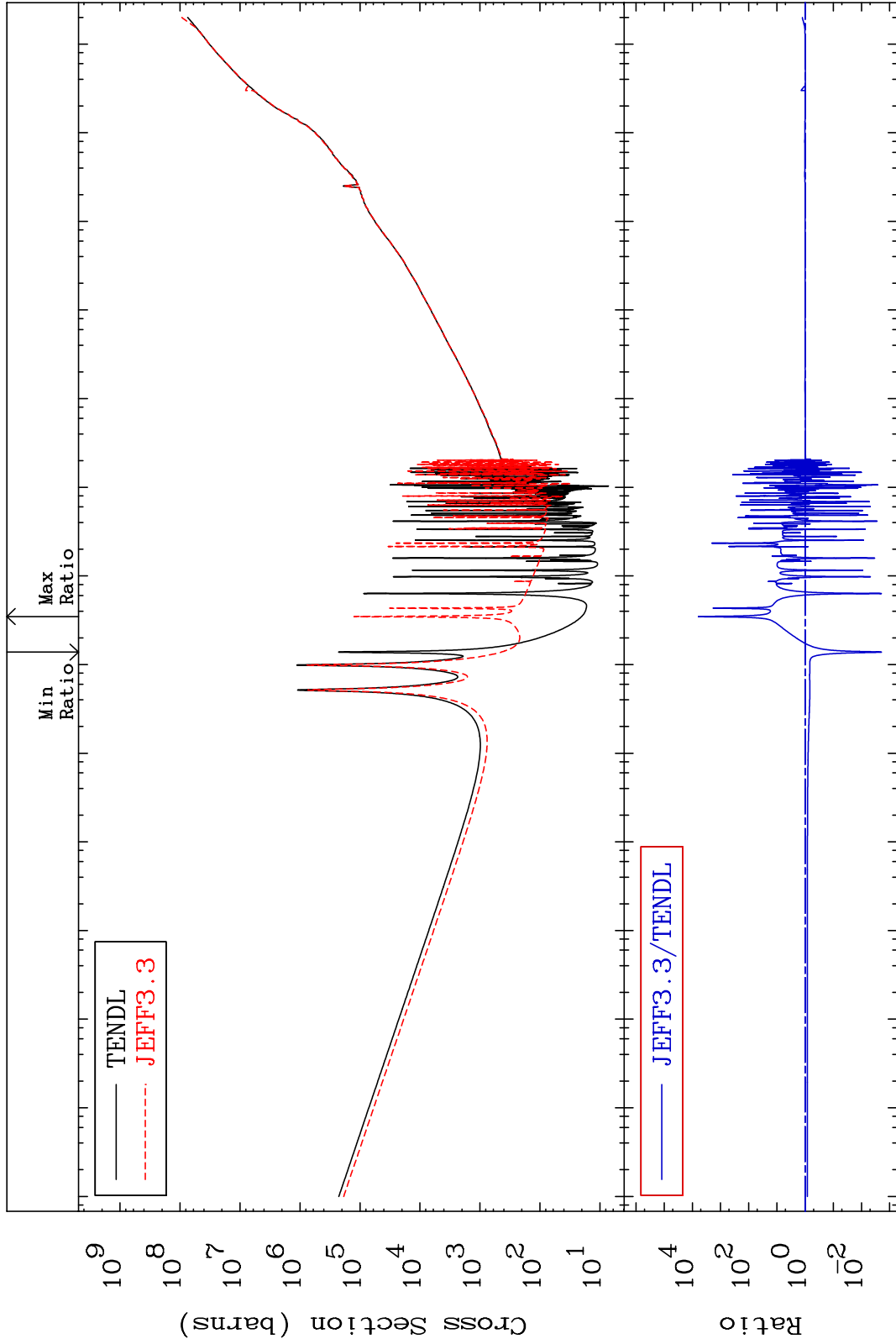
MAT 5425

Kerma total (eV-barns)

54-Xe-124

-99.81 To 9999. %

Cross Section



— TENDL  
- - - JEFF3.3

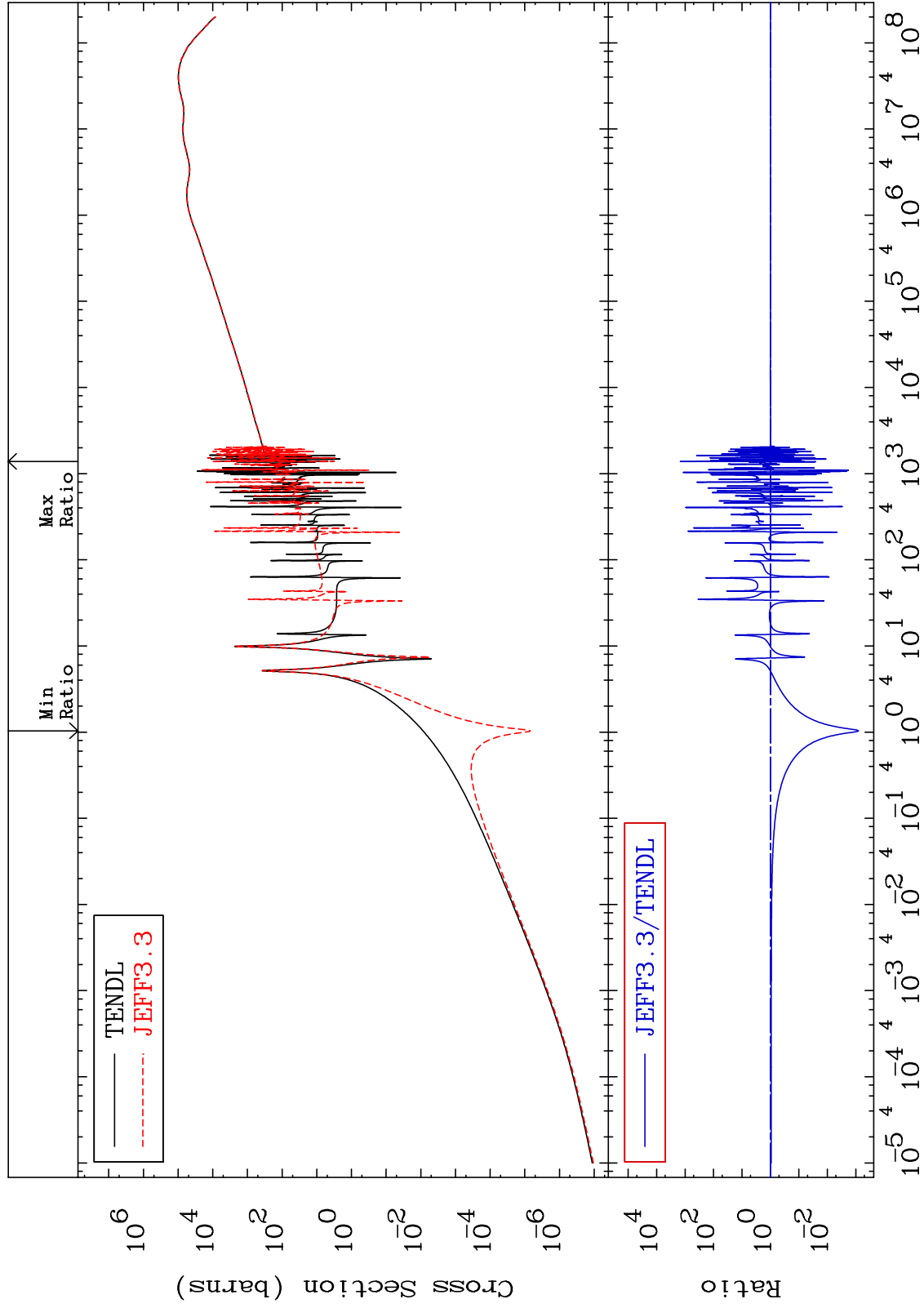
— JEFF3.3/TENDL

Incident Energy (eV) 54-Xe-124

MAT 5425

Kerma elastic  
Cross Section

54-Xe-124  
-99.92 To 9999. %



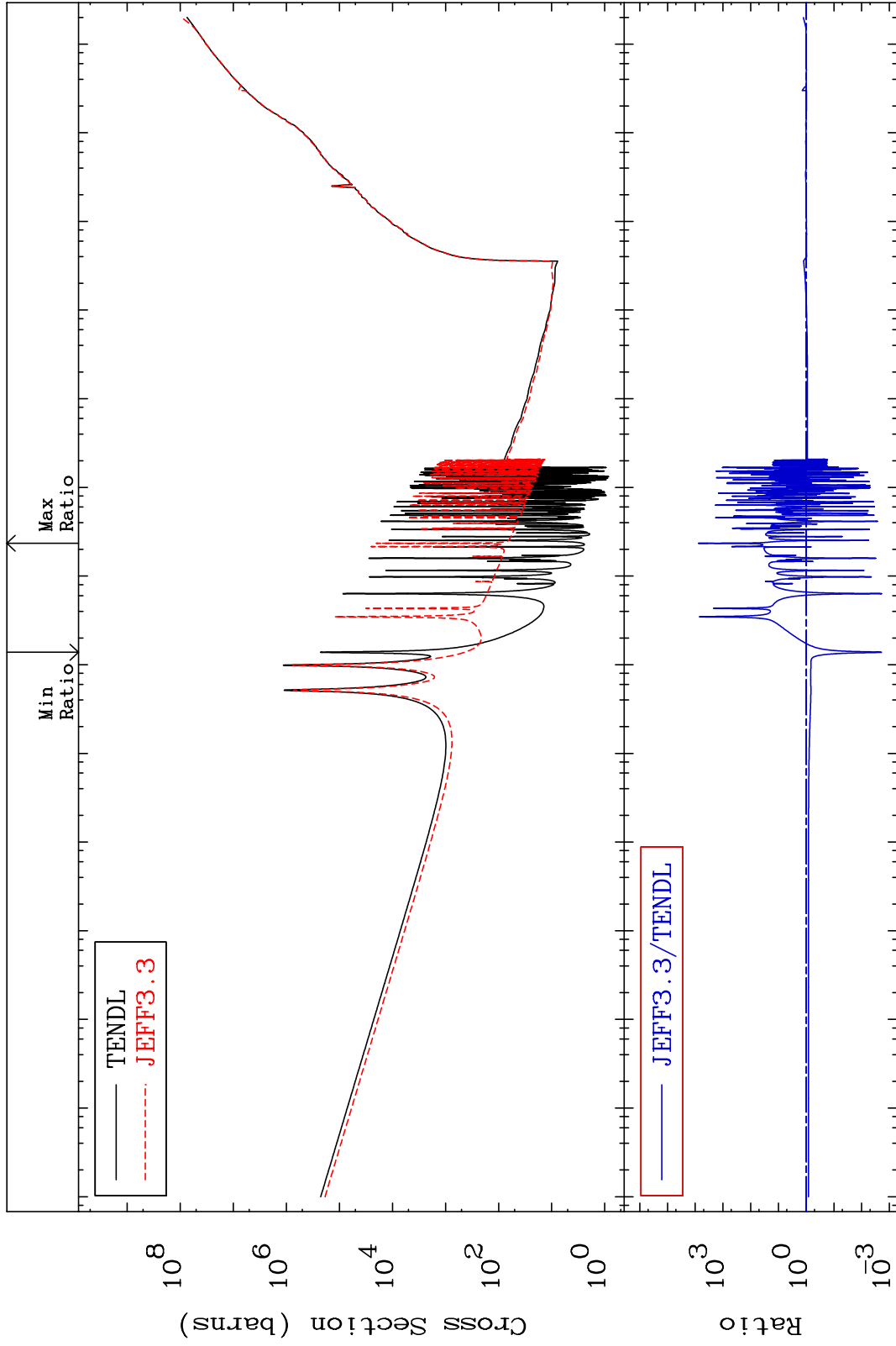
MAT 5425

Kerma non-elastic (all but mt2)

54-Xe-124

-99.81 To 9999. %

Cross Section



69

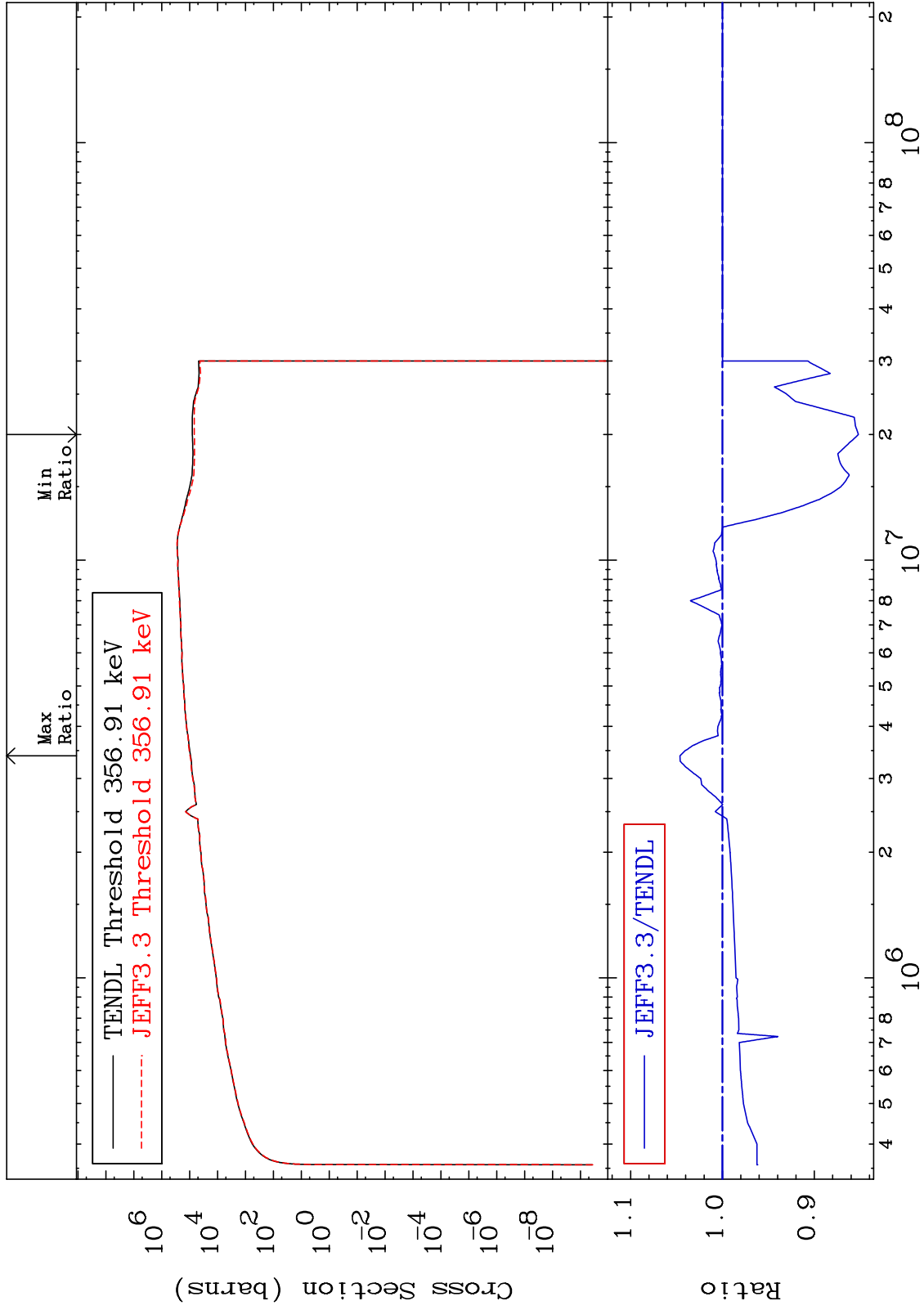
Incident Energy (eV)

54-Xe-124

MAT 5425

Kerma inelastic (mt51-91)  
Cross Section

54-Xe-124  
-14.80 To 4.618 %



70

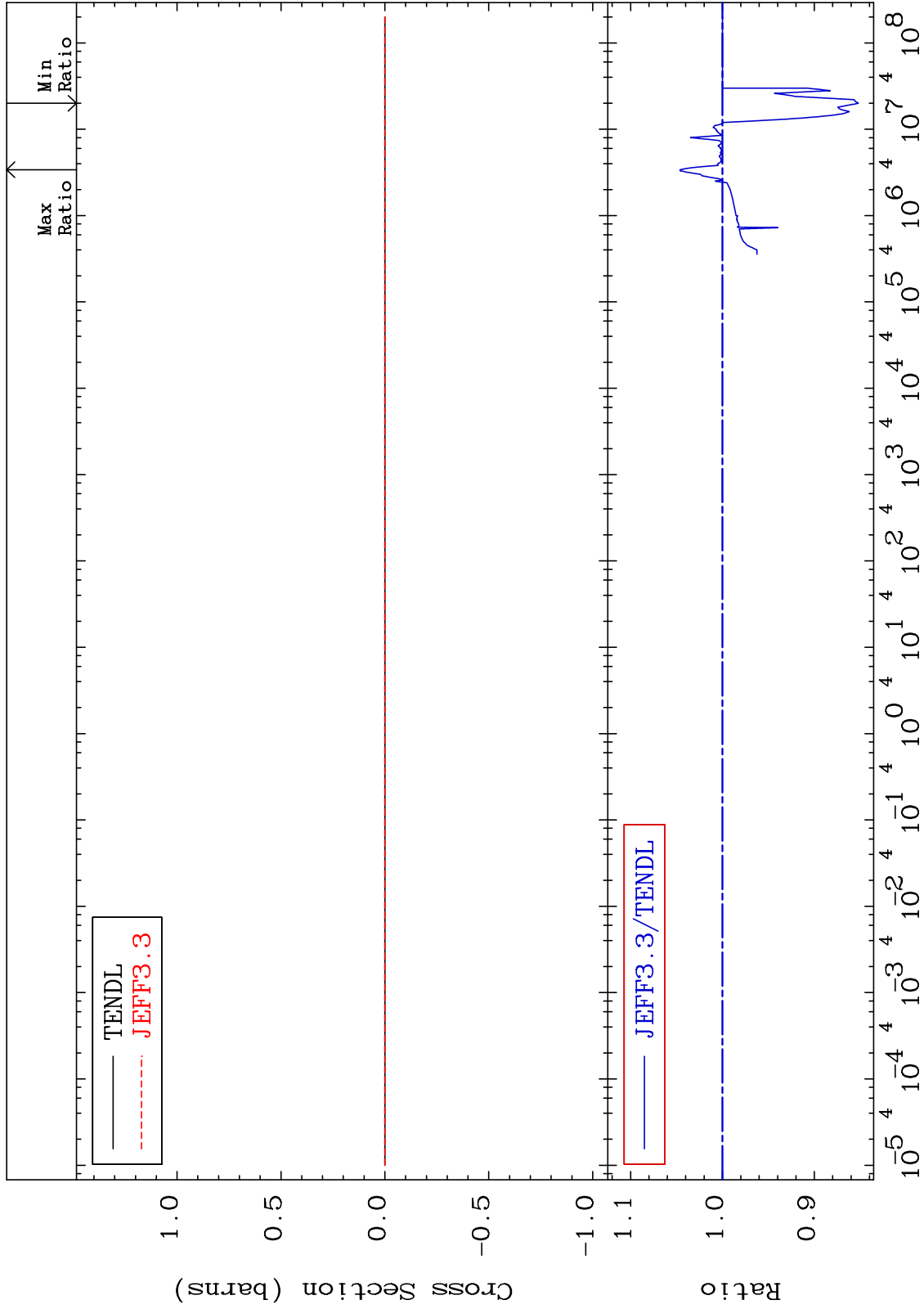
Incident Energy (eV)

54-Xe-124

MAT 5425

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

54-Xe-124  
-14.80 To 4.618 %



71

Incident Energy (eV)

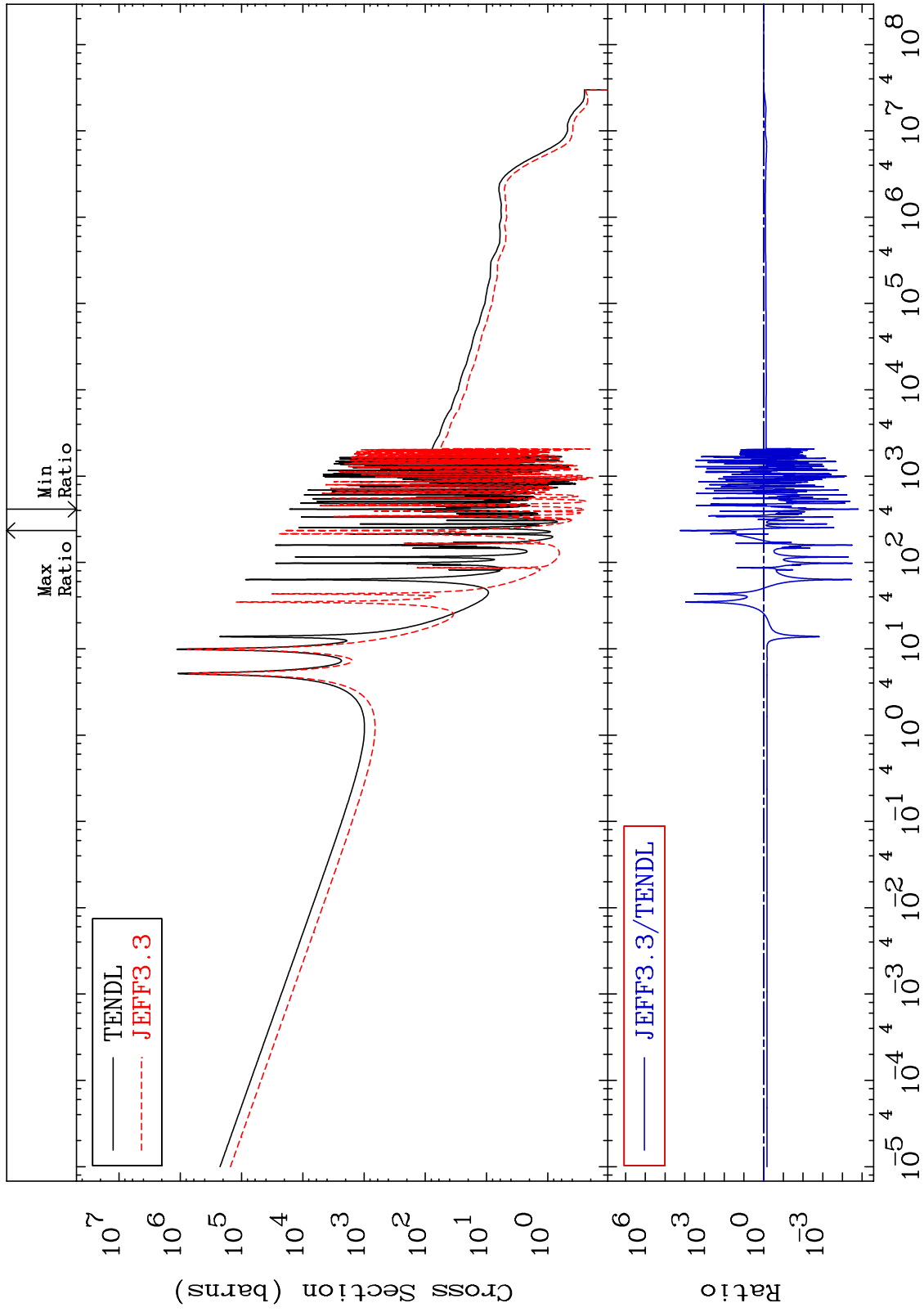
54-Xe-124



MAT 5425

Kerma capture (mt102)  
Cross Section

54-Xe-124  
-100.0 To 9999. %



72

Incident Energy (eV)

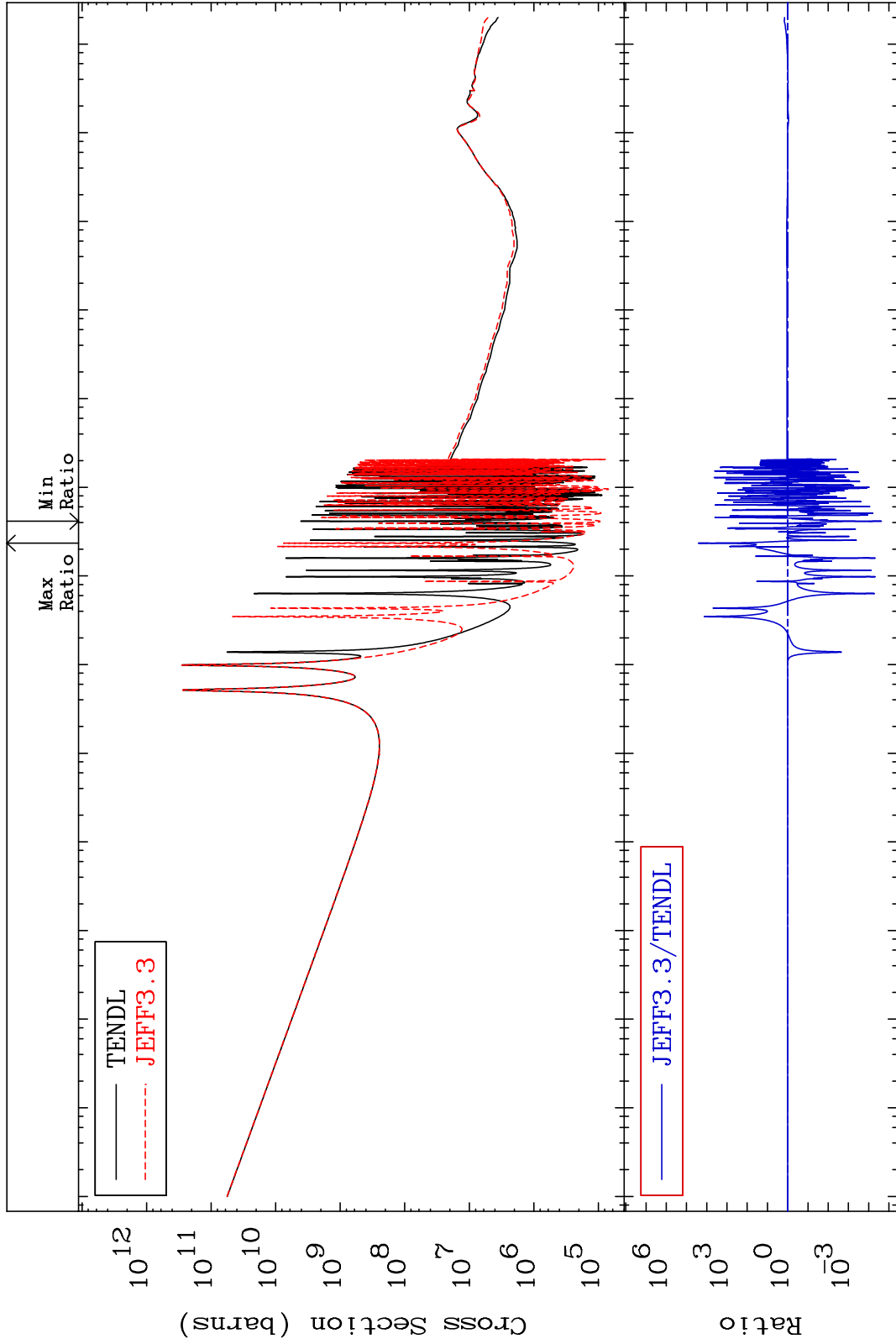
54-Xe-124

MAT 5425

Total photon (eV-barns)

54-Xe-124

-100.0 To 9999. %



73

Incident Energy (eV)

54-Xe-124

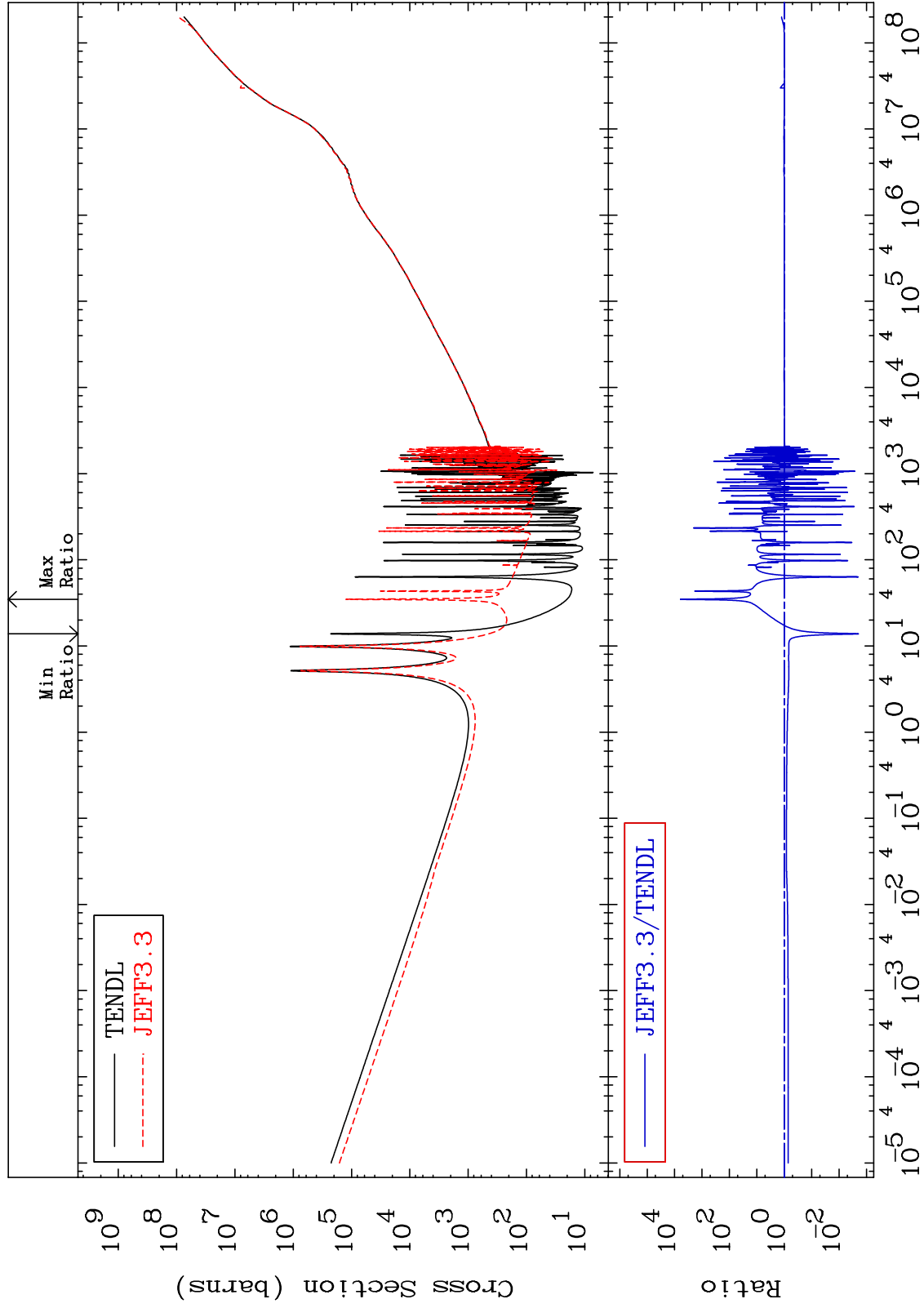
MAT 5425

Total kinematic kerma (high limit)

54-Xe-124

-99.81 To 9999. %

Cross Section



74

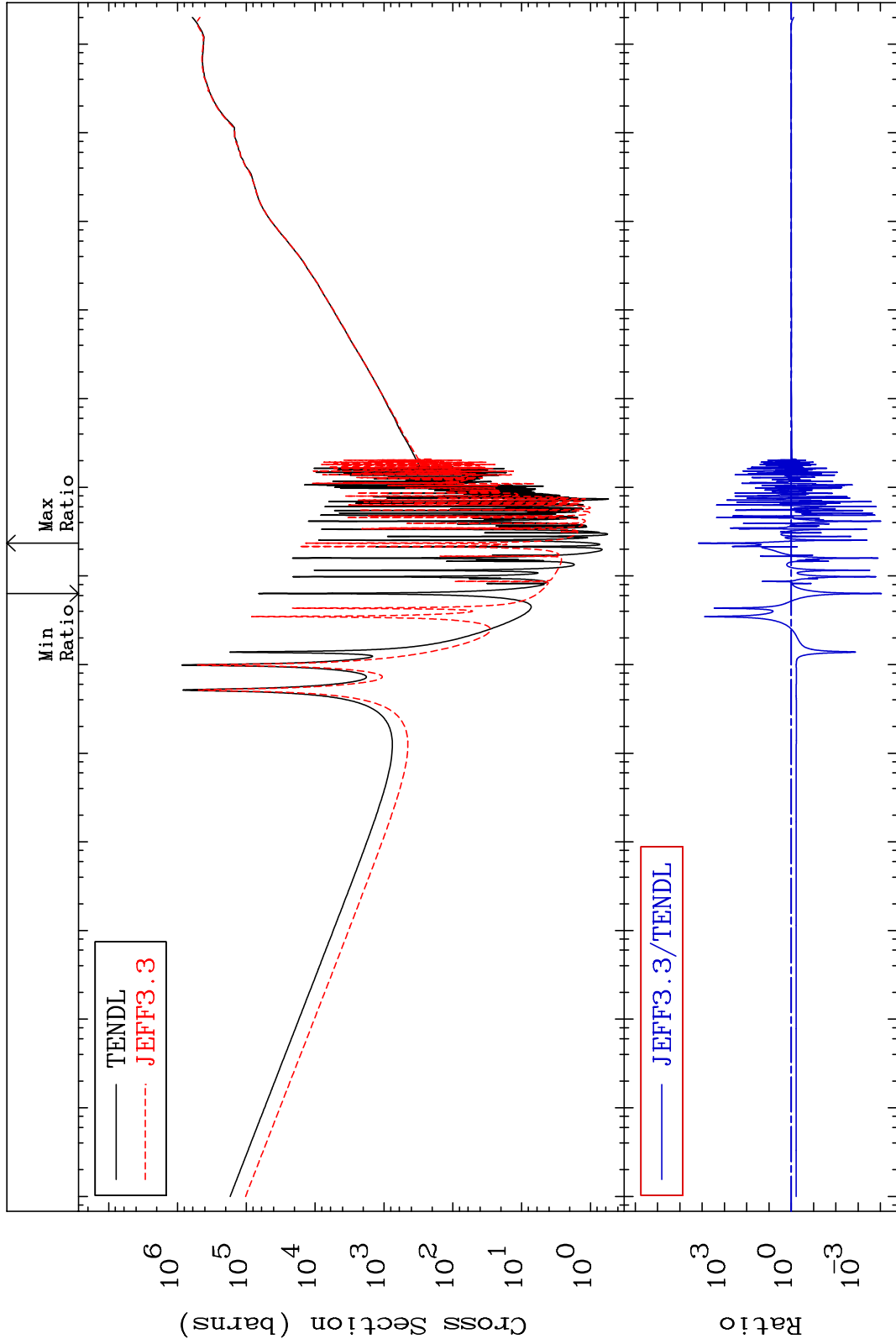
Incident Energy (eV)

54-Xe-124

MAT 5425

Dpa total (eV-barns)  
Cross Section

54-Xe-124  
-99.99 To 9999. %



75

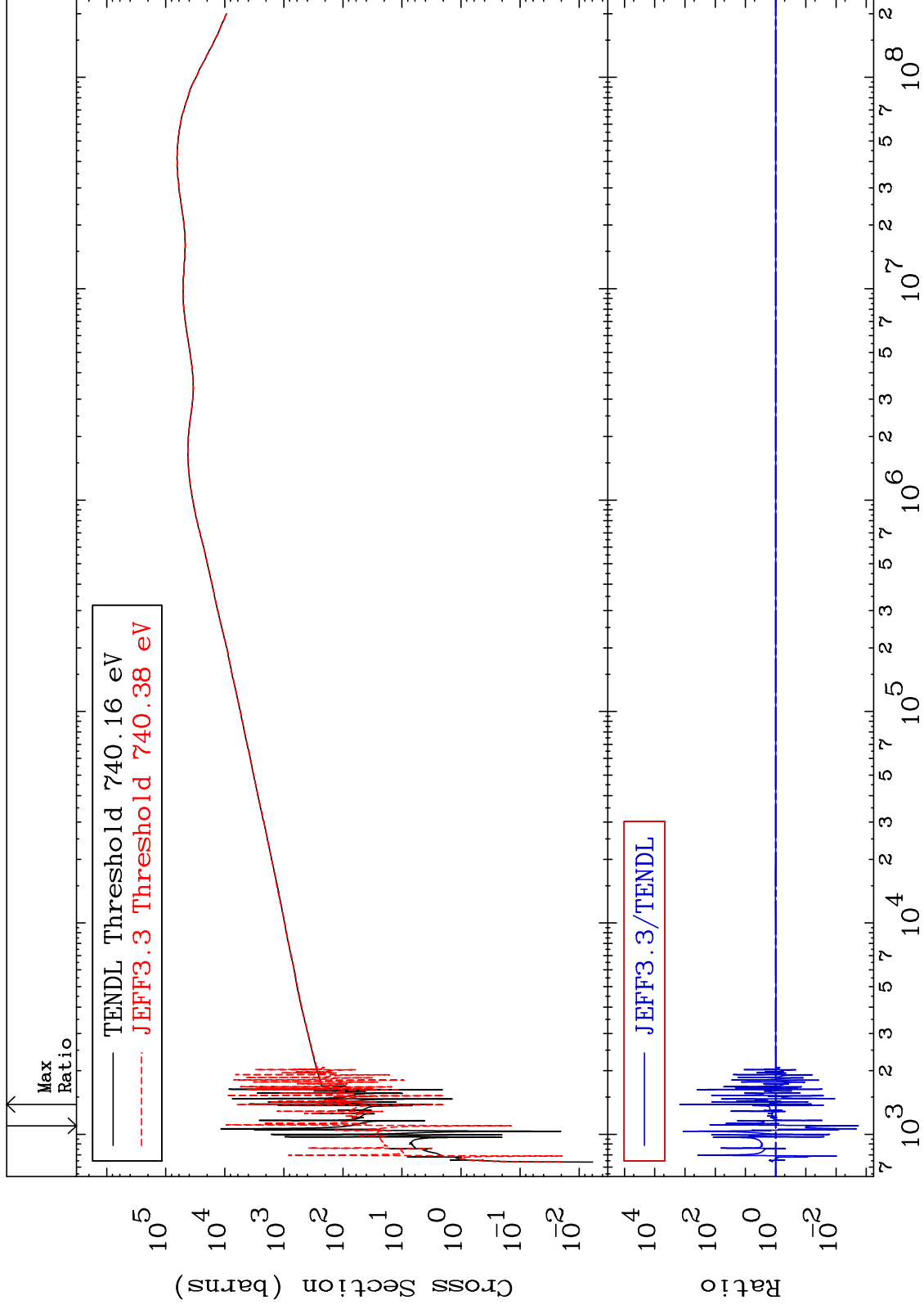
Incident Energy (eV)

54-Xe-124

MAT 5425

Dpa elastic (mt2)  
Cross Section

54-Xe-124  
-99.82 To 9999. %



76

Incident Energy (eV)

54-Xe-124

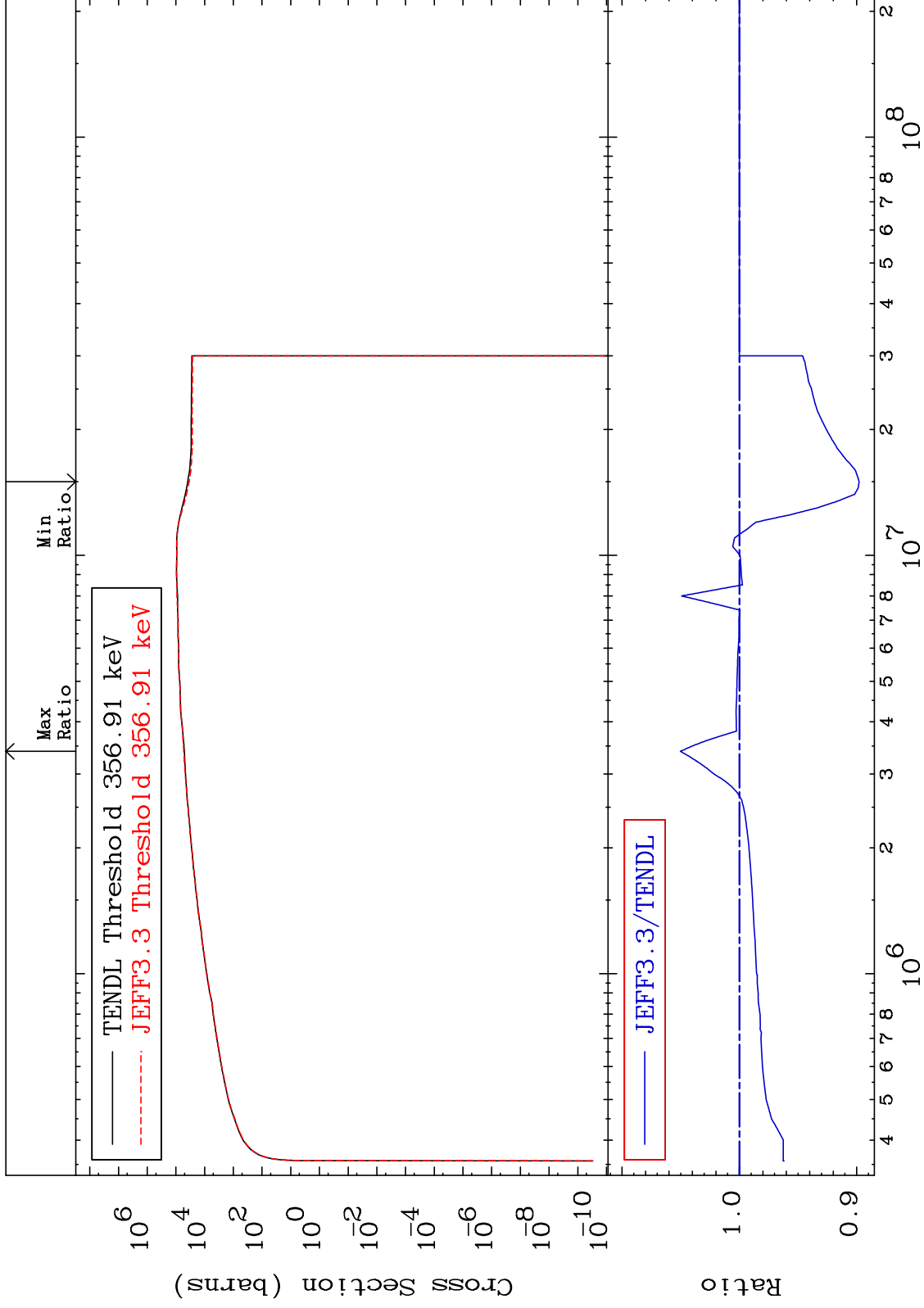
MAT 5425

Dpa inelastic (mt51-91)

54-Xe-124

-10.21 To 5.026 %

Cross Section



77

Incident Energy (eV)

54-Xe-124

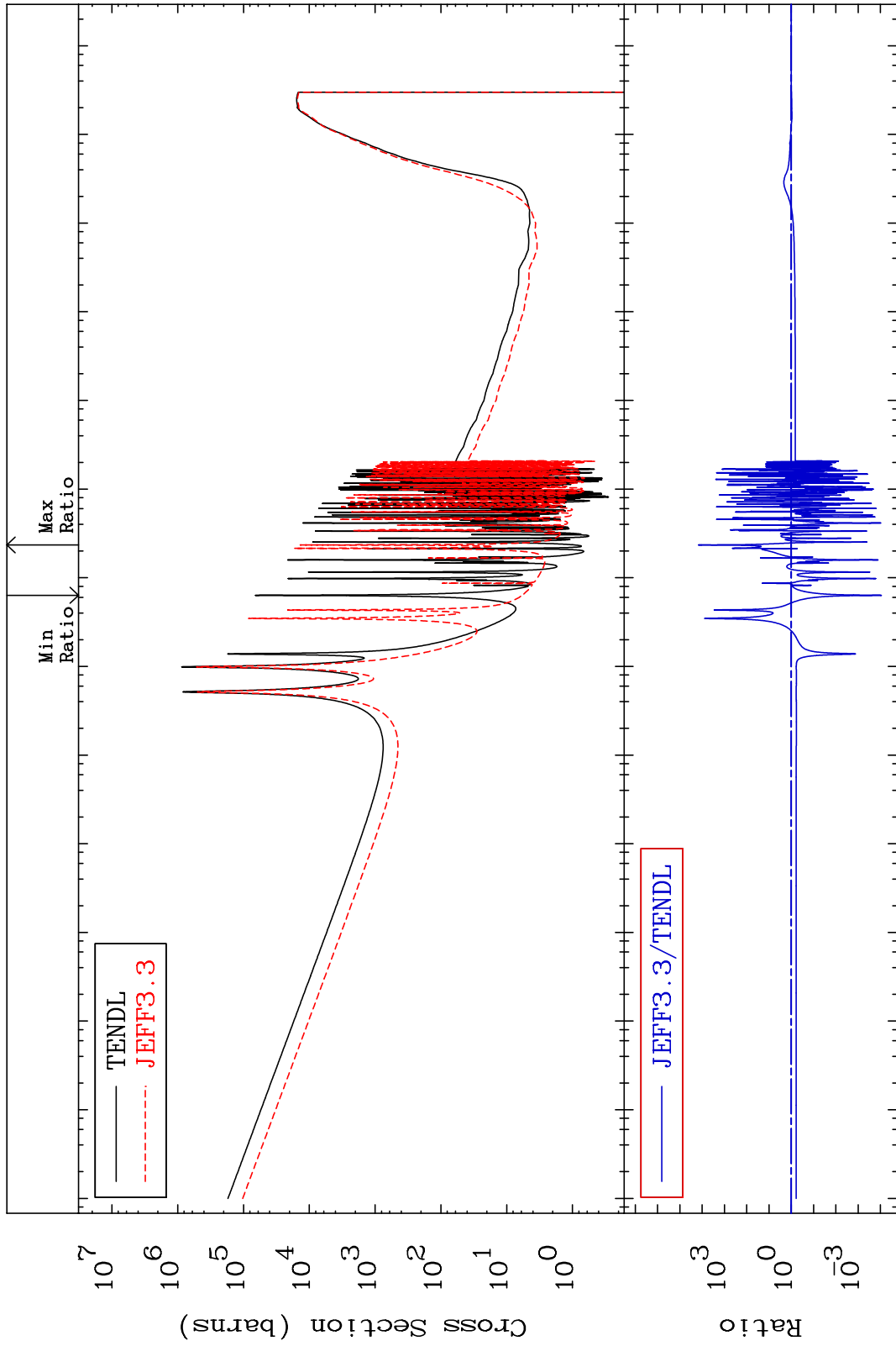
MAT 5425

Dpa disappearance (mt102 -120)

54-Xe-124

-99.99 To 9999. %

Cross Section



78

Incident Energy (eV)

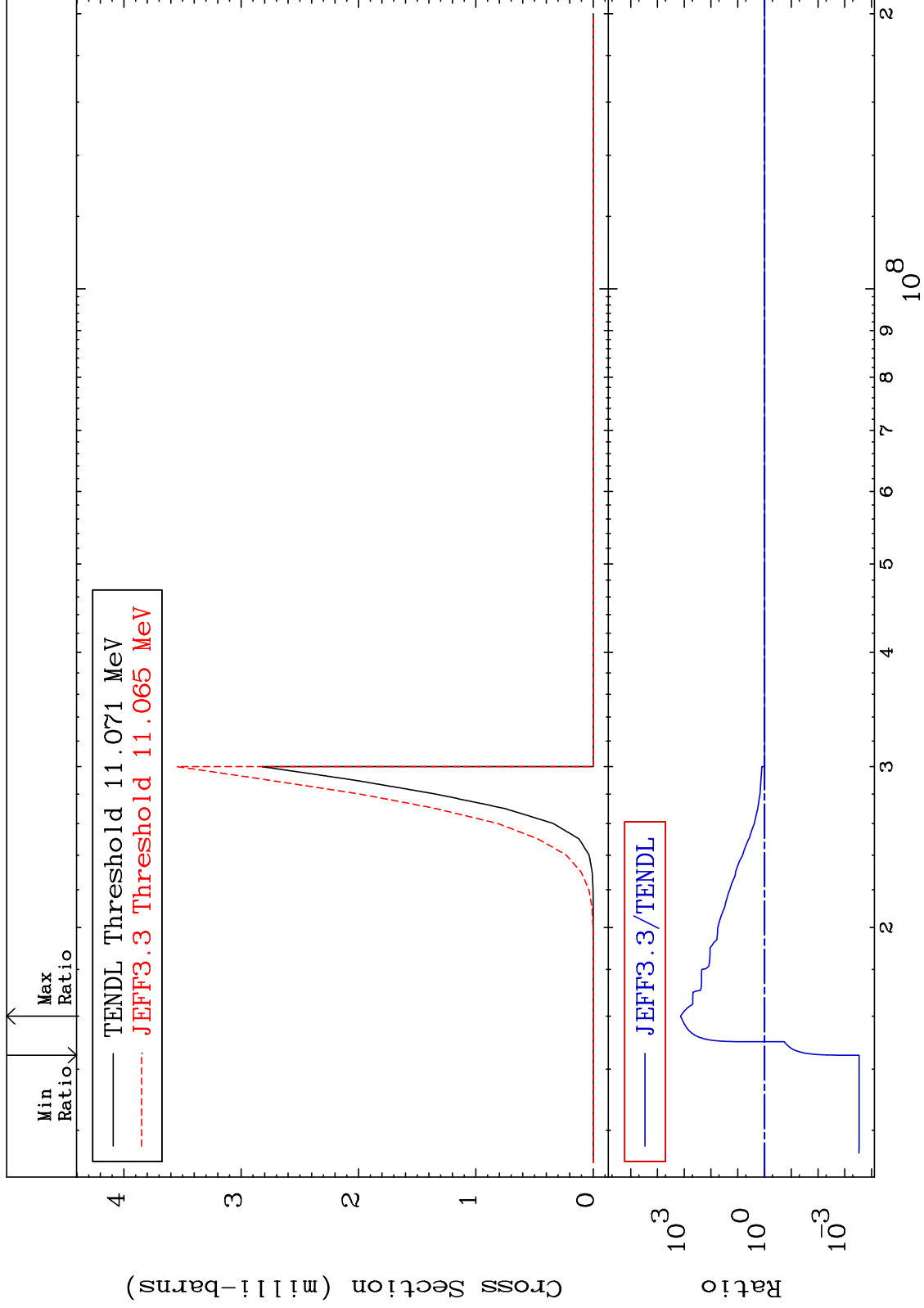
54-Xe-124

MAT 5425

(n,2n)  $\alpha$ :52-Te-119g

54-Xe-124

Radionuclide Production Cross Section -99.97 To 9999. %



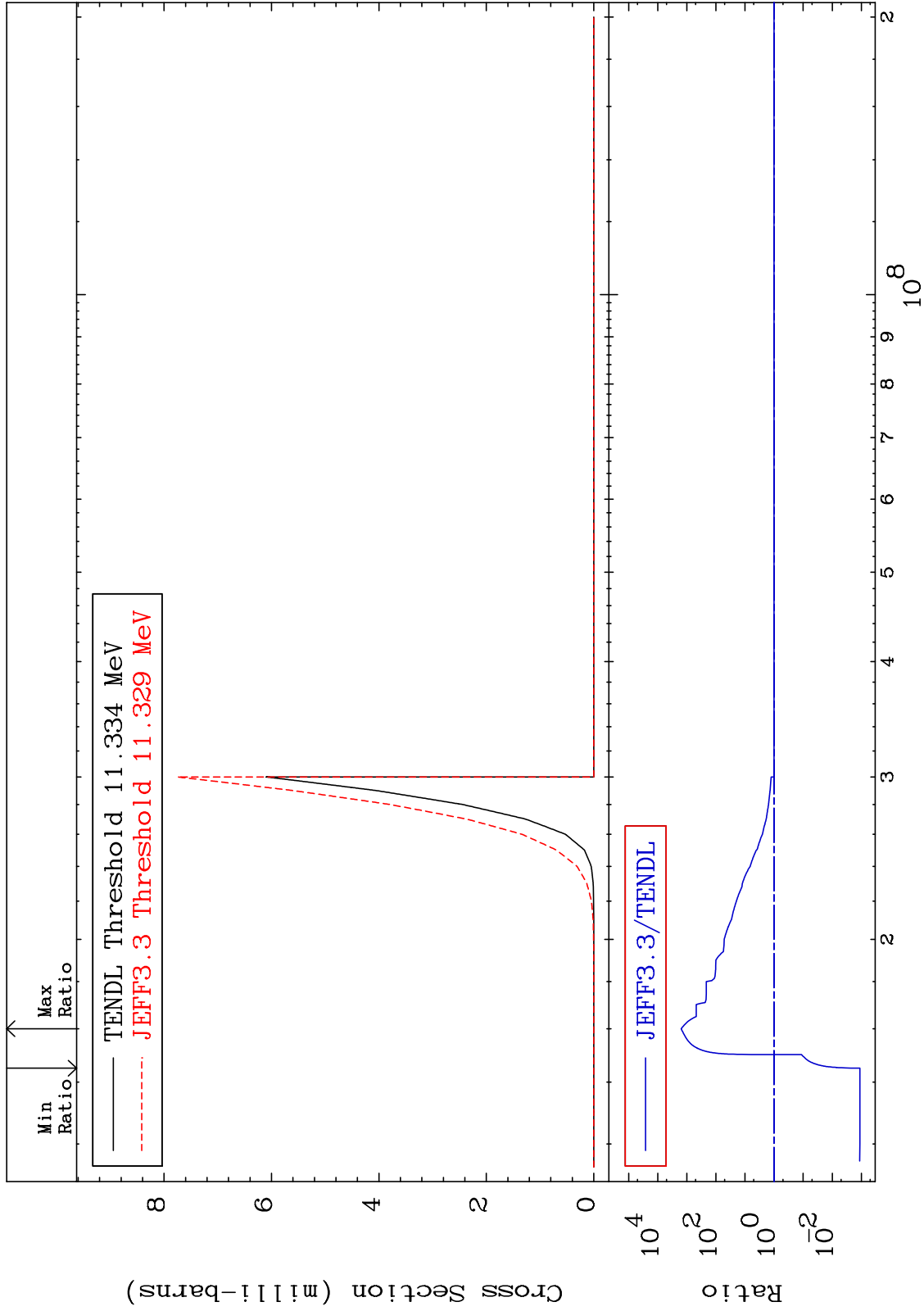


MAT 5425

(n,2n)  $\alpha$ :52-Te-119m2

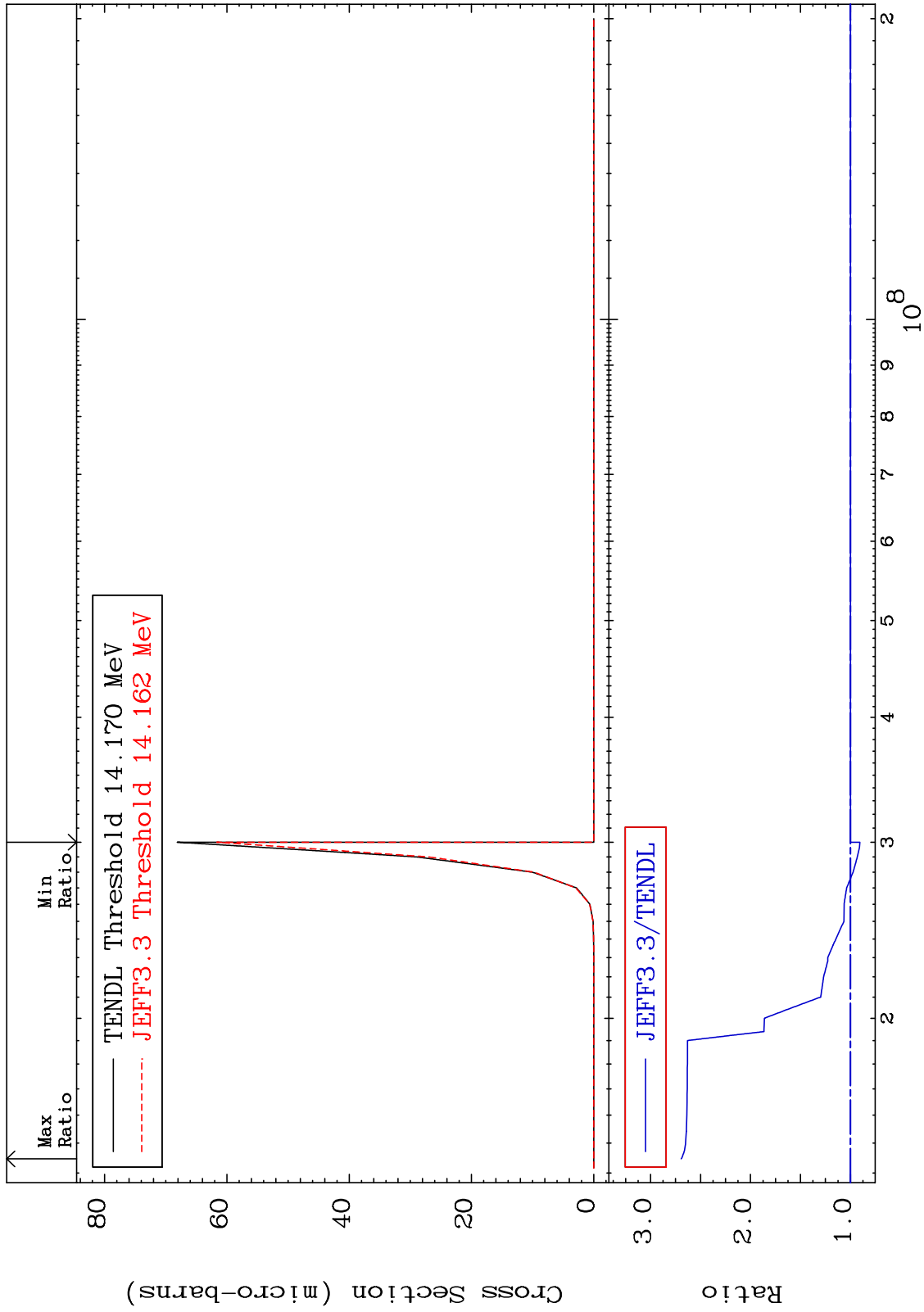
54-Xe-124

Radionuclide Production Cross Section -99.89 To 9999. %



MAT 5425

(n, n') He-3:52-Te-121g 54-Xe-124  
Radionuclide Production Cross Section -9.485 To 169.3 %

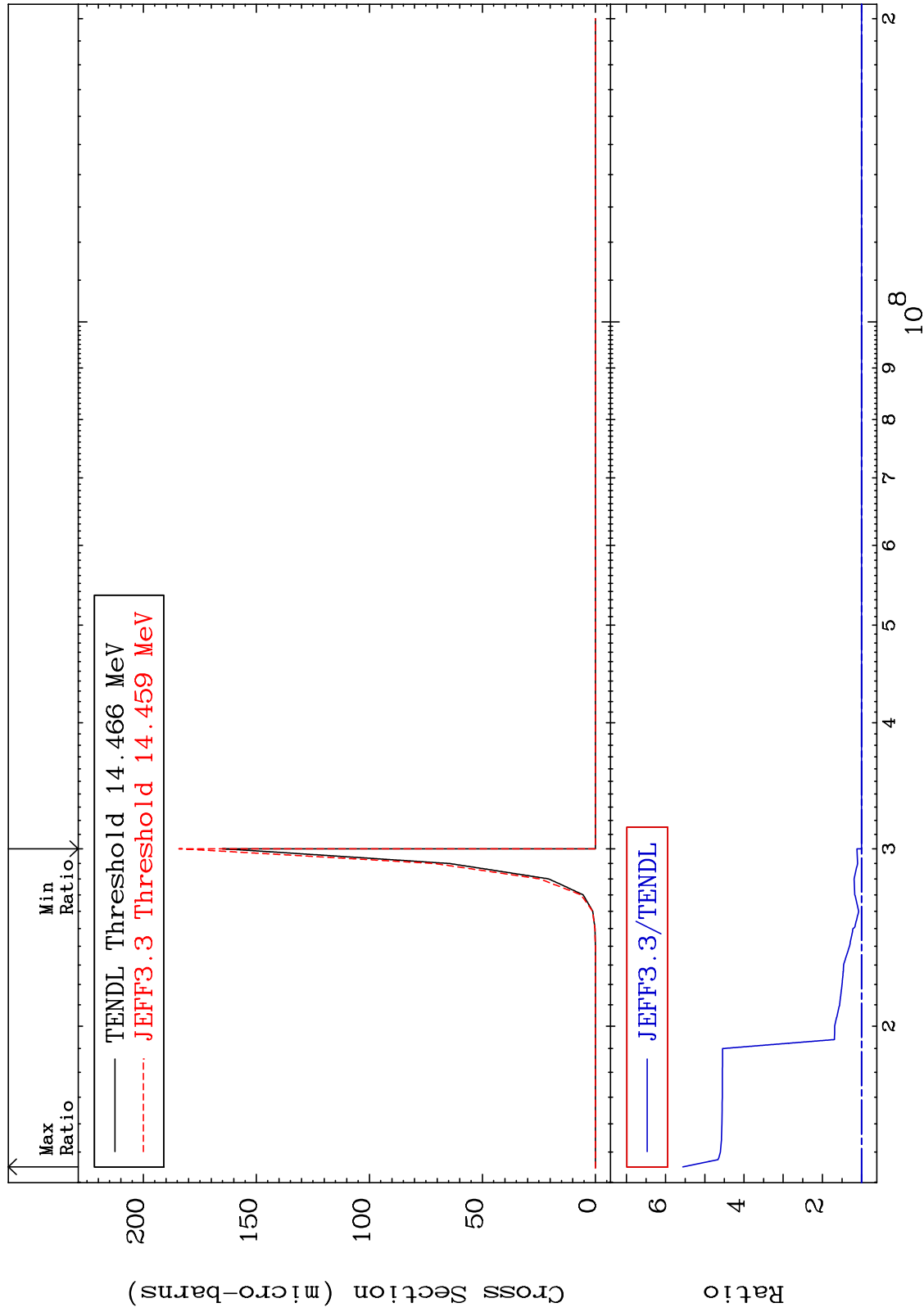


MAT 5425

(n, n') He-3:52-Te-121m2

54-Xe-124

Radionuclide Production Cross Section 0.000 To 455.9 %



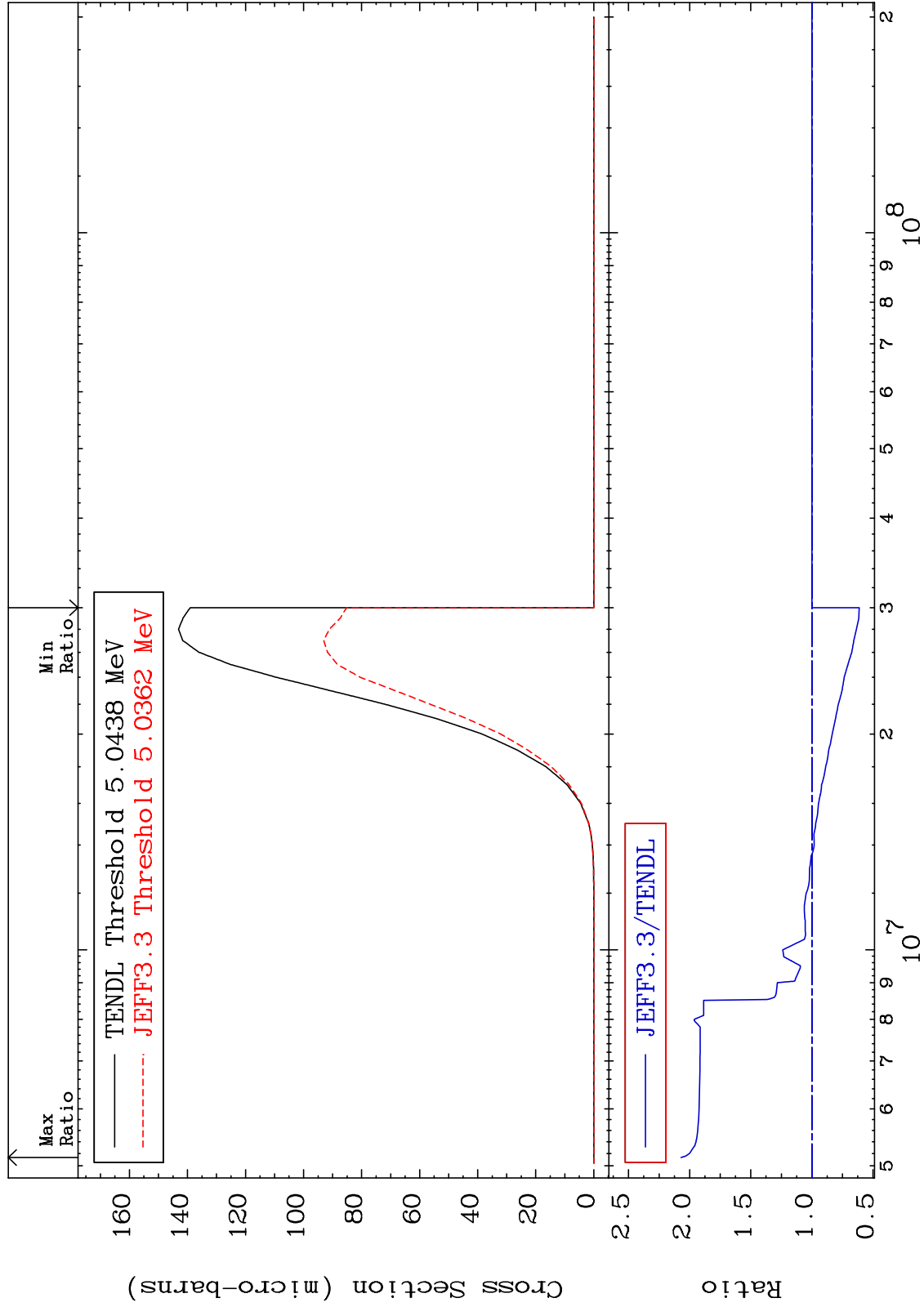
MAT 5425

(n,2p):52-Te-123g

54-Xe-124

Radionuclide Production Cross Section

-38.74 To 107.0 %

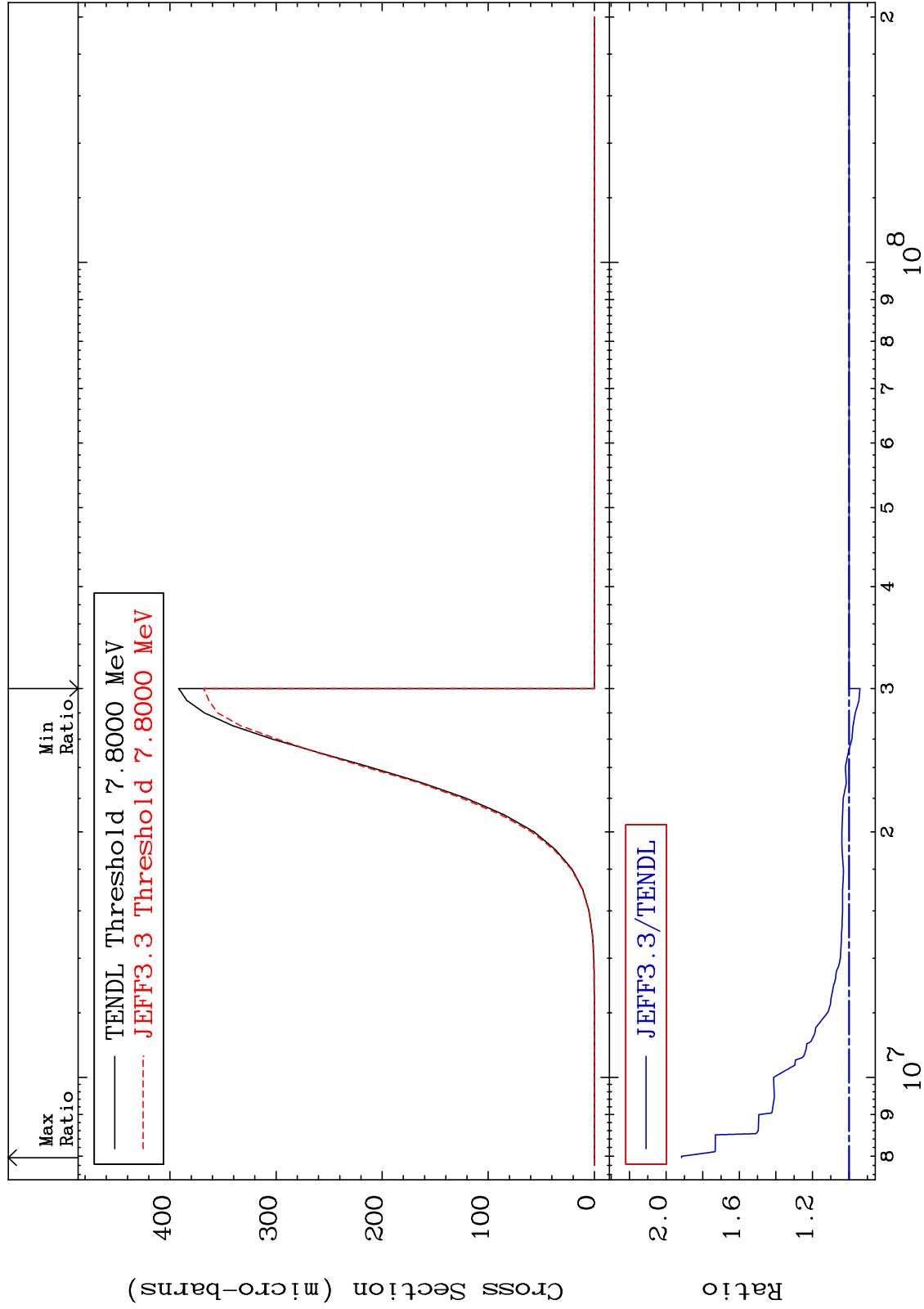


MAT 5425

(n,2p):52-Te-123m2

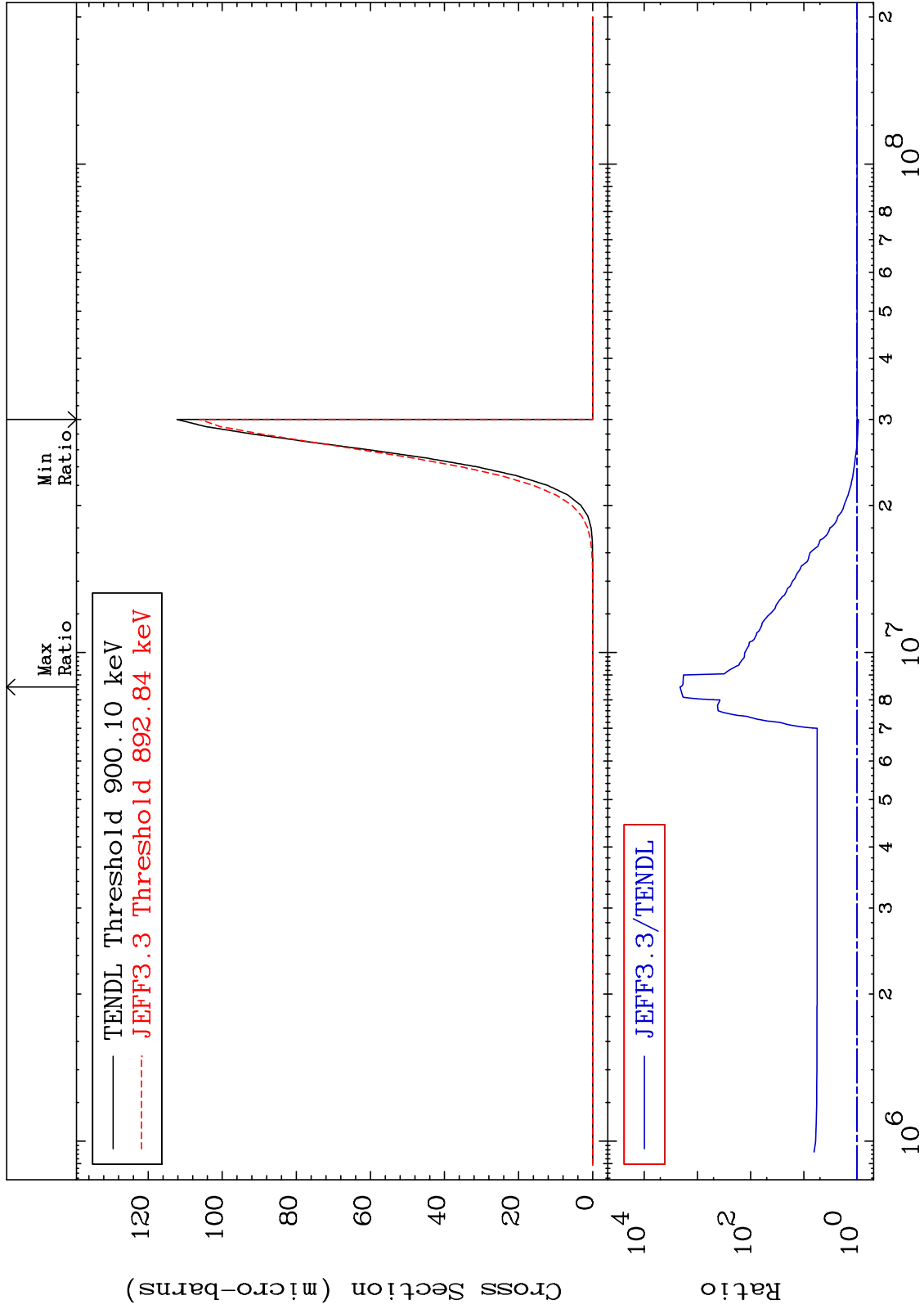
54-Xe-124

Radionuclide Production Cross Section -5.984 To 91.49 %



MAT 5425

(n, p)  $\alpha$ :51-Sb-120g 54-Xe-124  
Radionuclide Production Cross Section -5.469 To 9999. %



85

Incident Energy (eV)

54-Xe-124

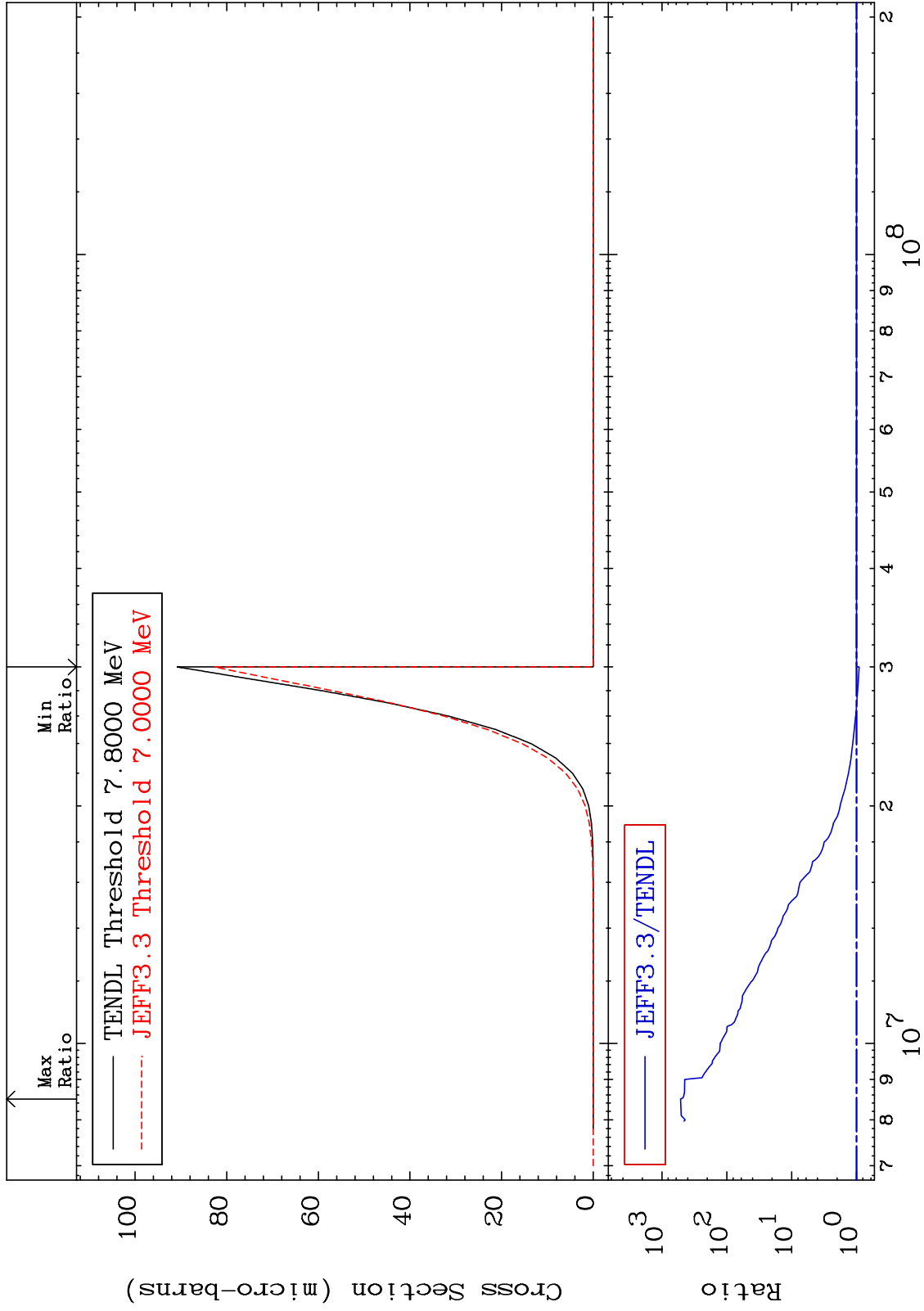
MAT 5425

(n, p)  $\alpha$ :51-Sb-120m6

54-Xe-124

Radionuclide Production Cross Section

-8.935 To 9999. %

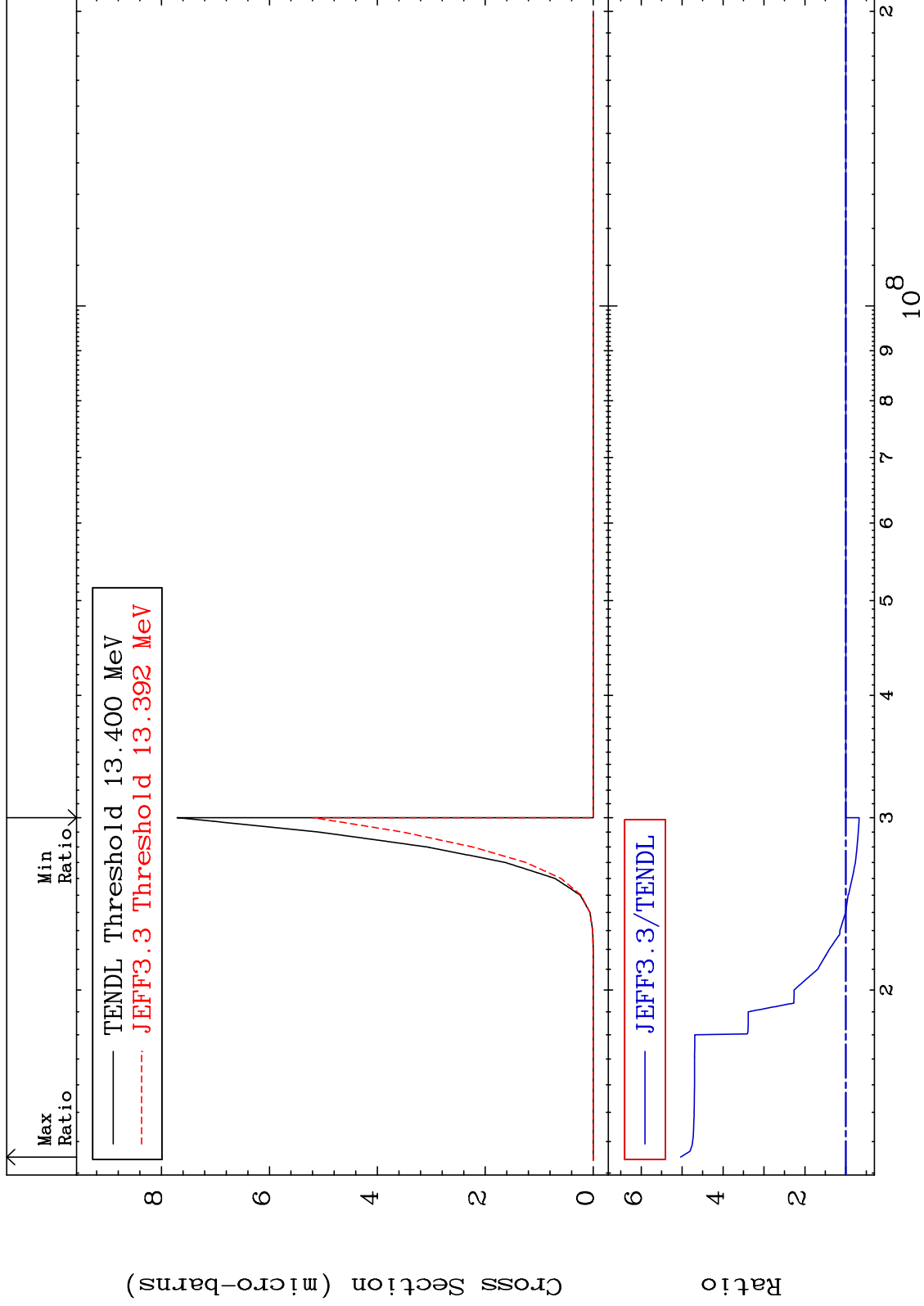


MAT 5425

(n, p) t:52-Te-121g

54-Xe-124

Radionuclide Production Cross Section -32.67 To 403.6 %





MAT 5425

(n, p) t:52-Te-121m2

54-Xe-124

Radionuclide Production Cross Section -2.569 To 491.0 %

