

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

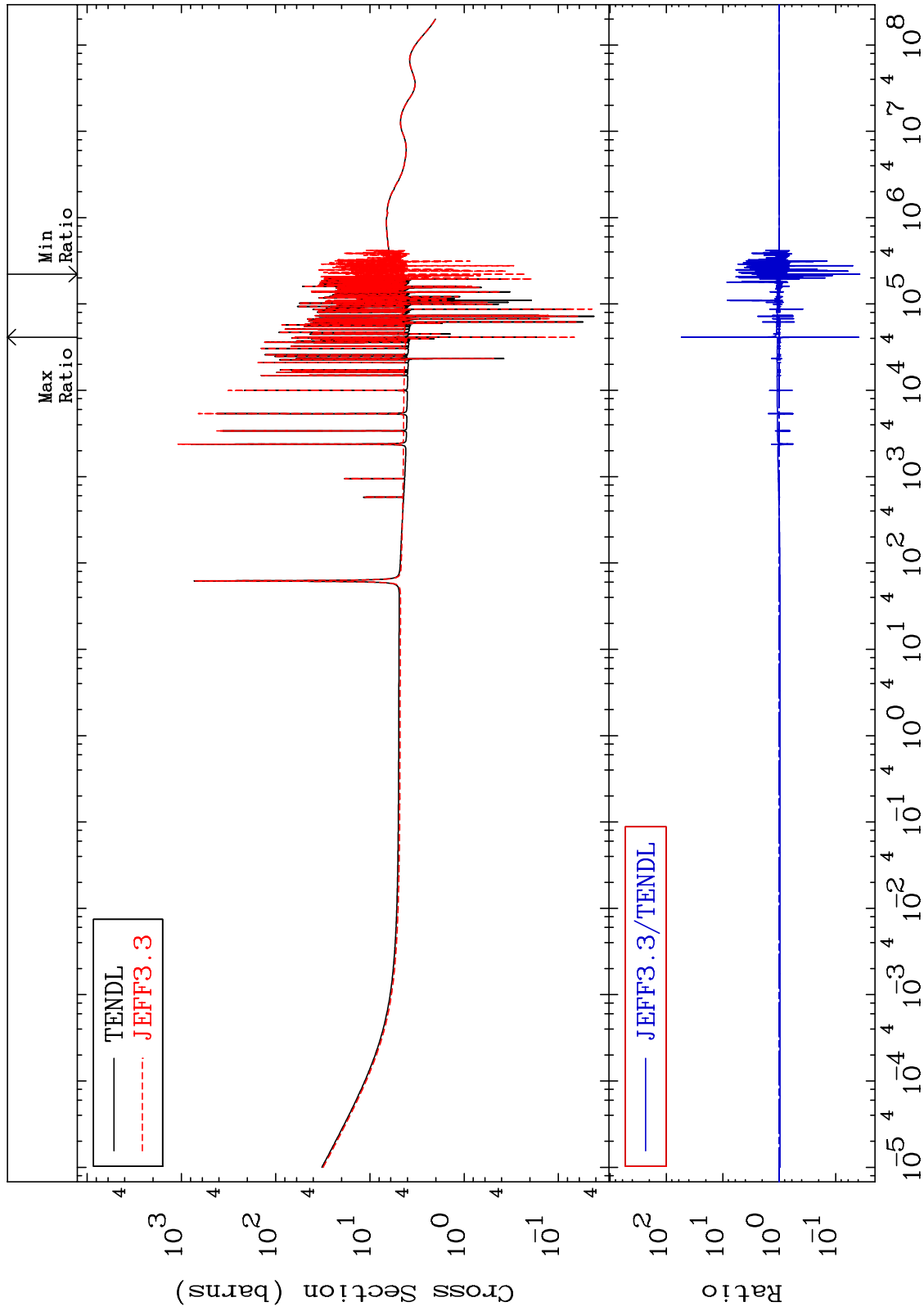
MAT 5061

Total

50-Sn-124

Cross Section

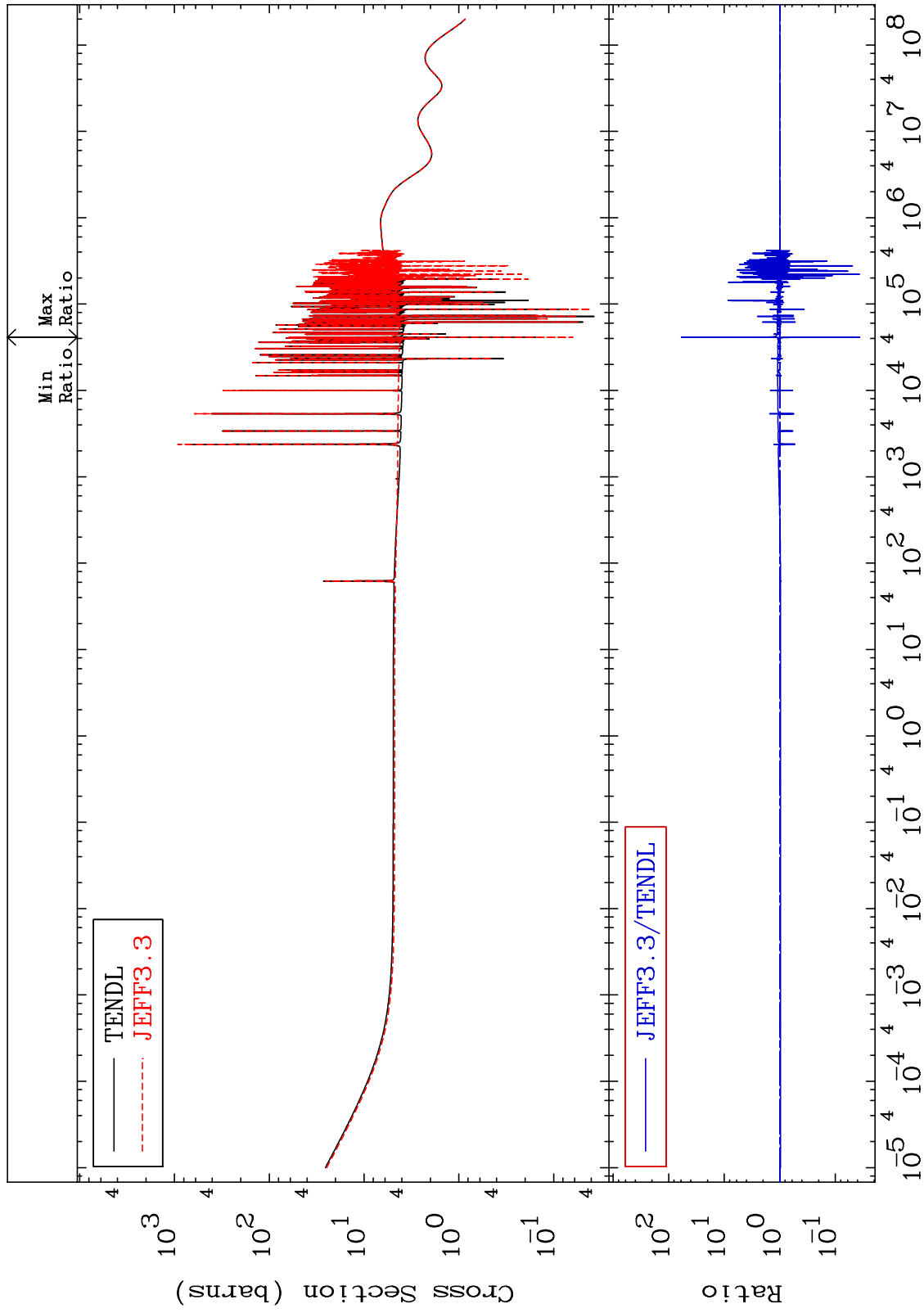
-96.25 To 5349. %



MAT 5061

Elastic  
Cross Section

50-Sn-124  
-96.37 To 5843. %



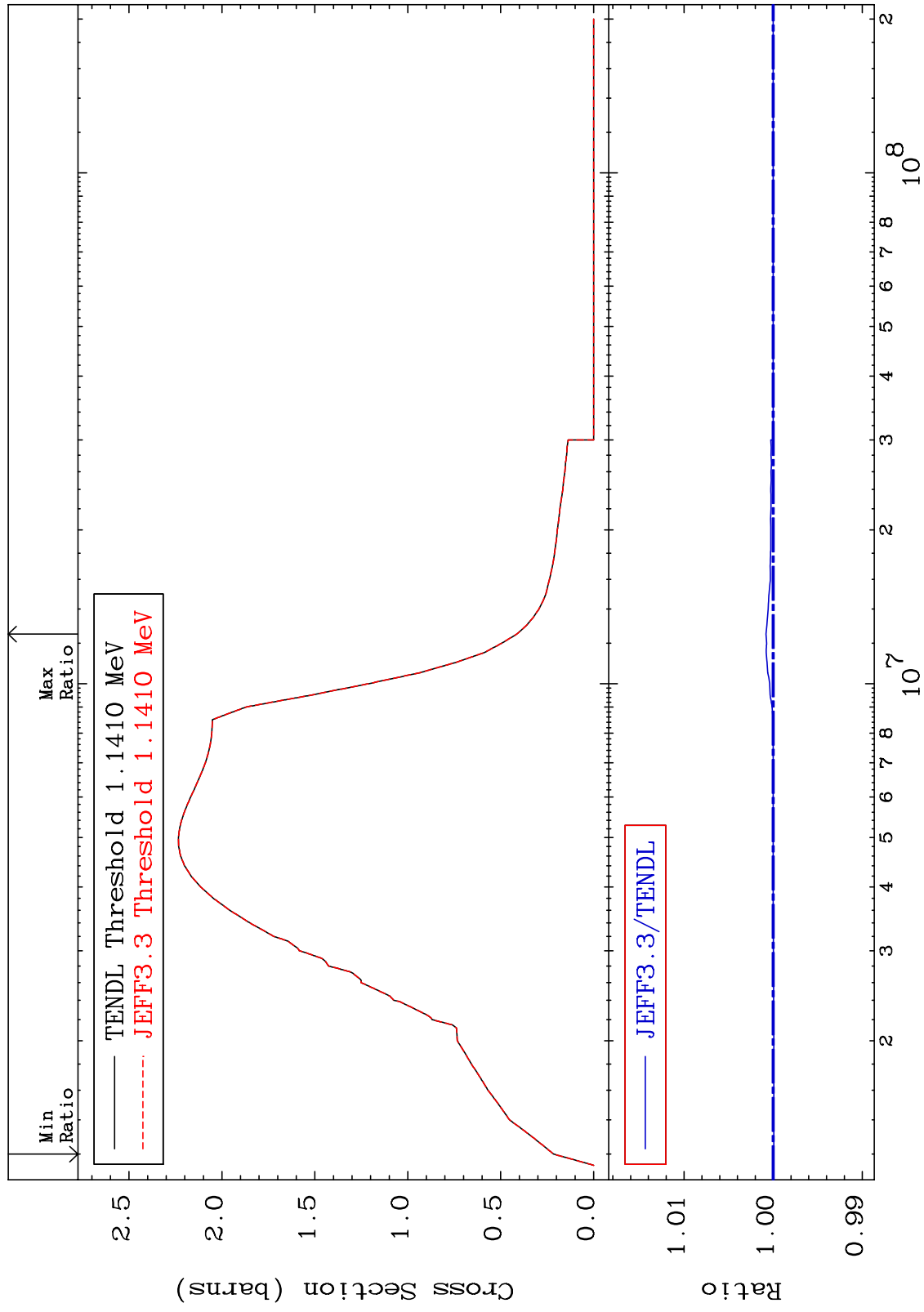
2

Incident Energy (eV)

50-Sn-124

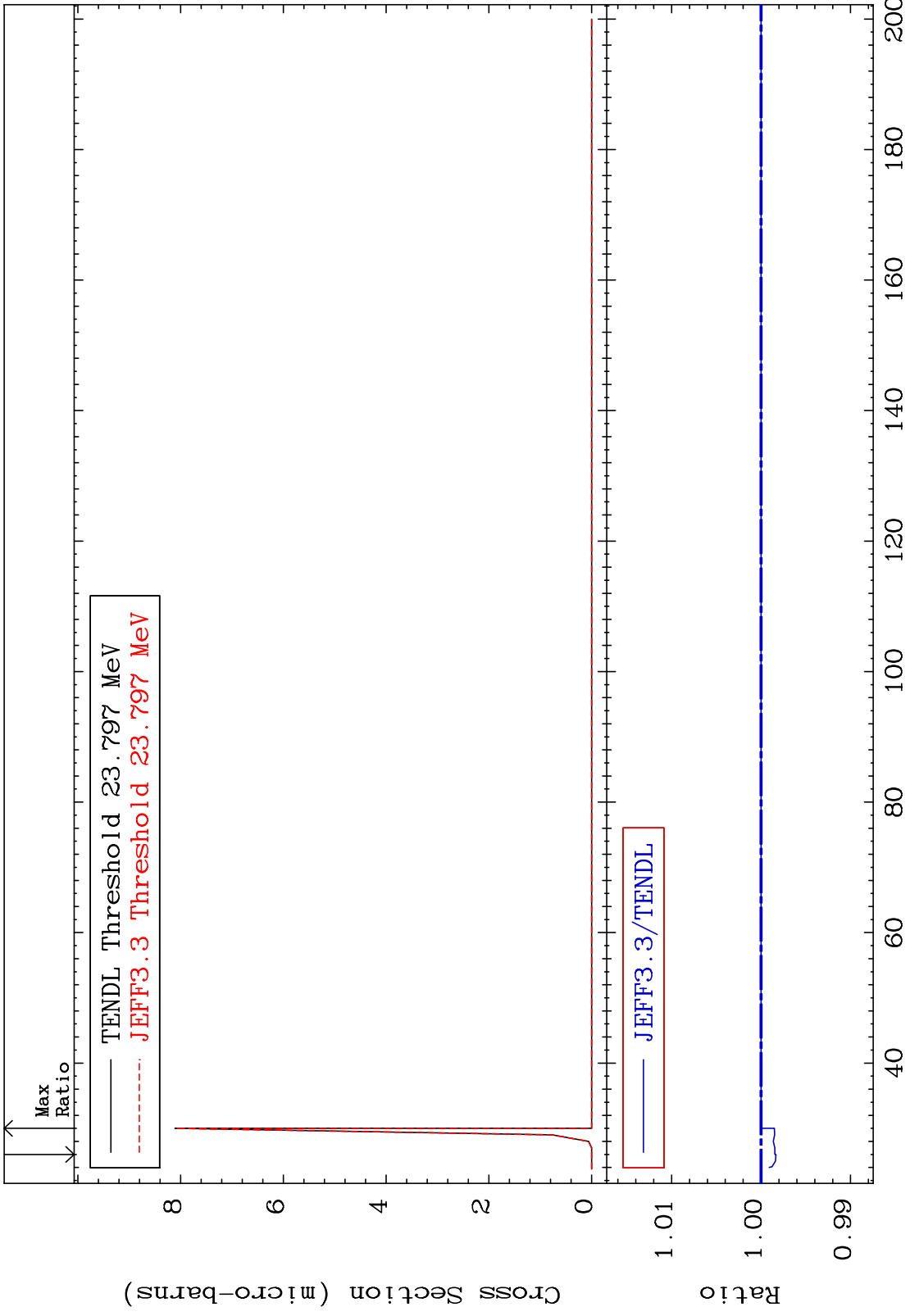
MAT 5061 50-Sn-124 -0.008 To 0.080 %

Inelastic Cross Section

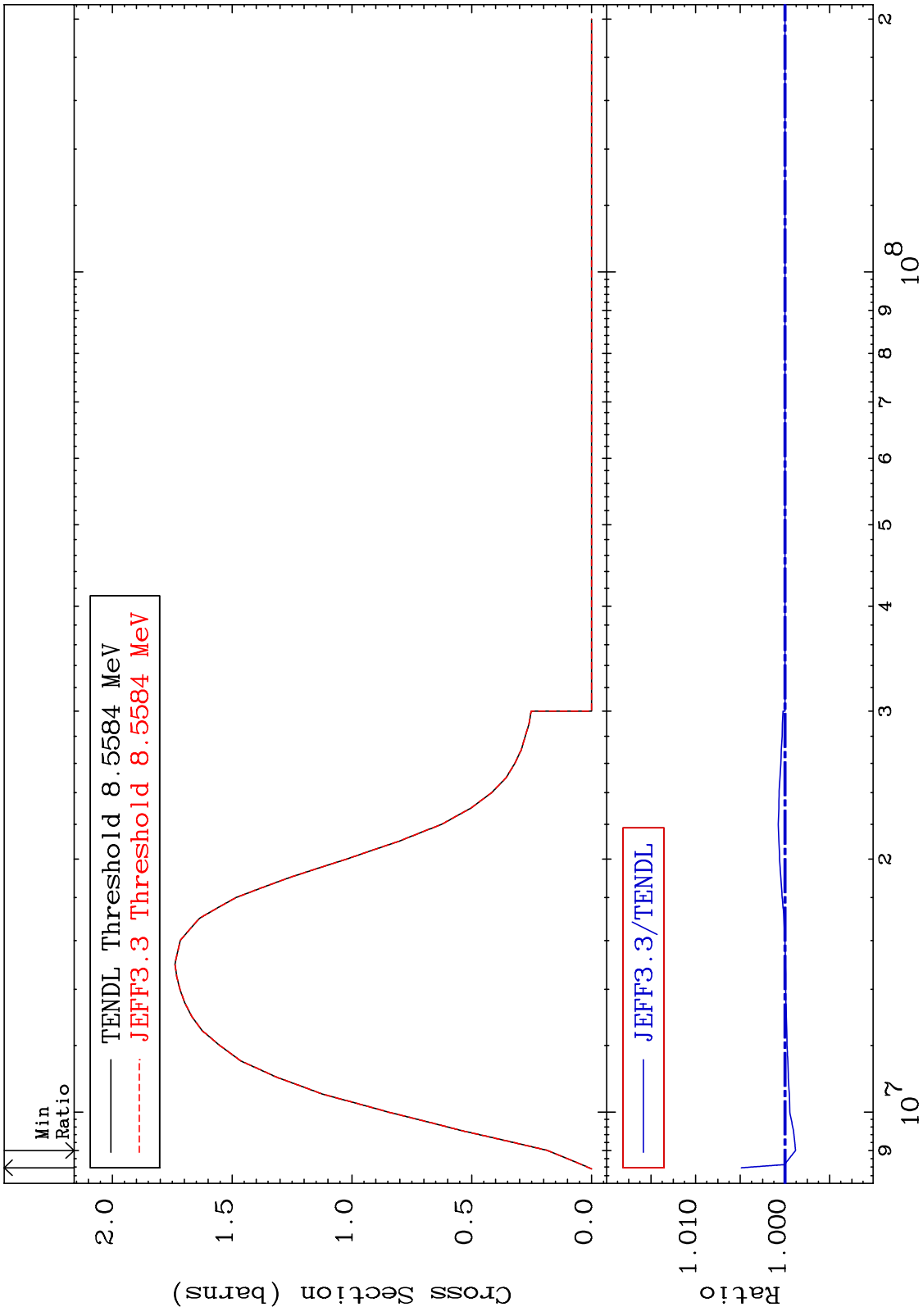


3 50-Sn-124

MAT 5061 (n,2n) d 50-Sn-124  
Cross Section -0.167 To 0.000 %



MAT 5061 (n,2n) Cross Section 50-Sn-124 -0.119 To 0.489 %



50-Sn-124

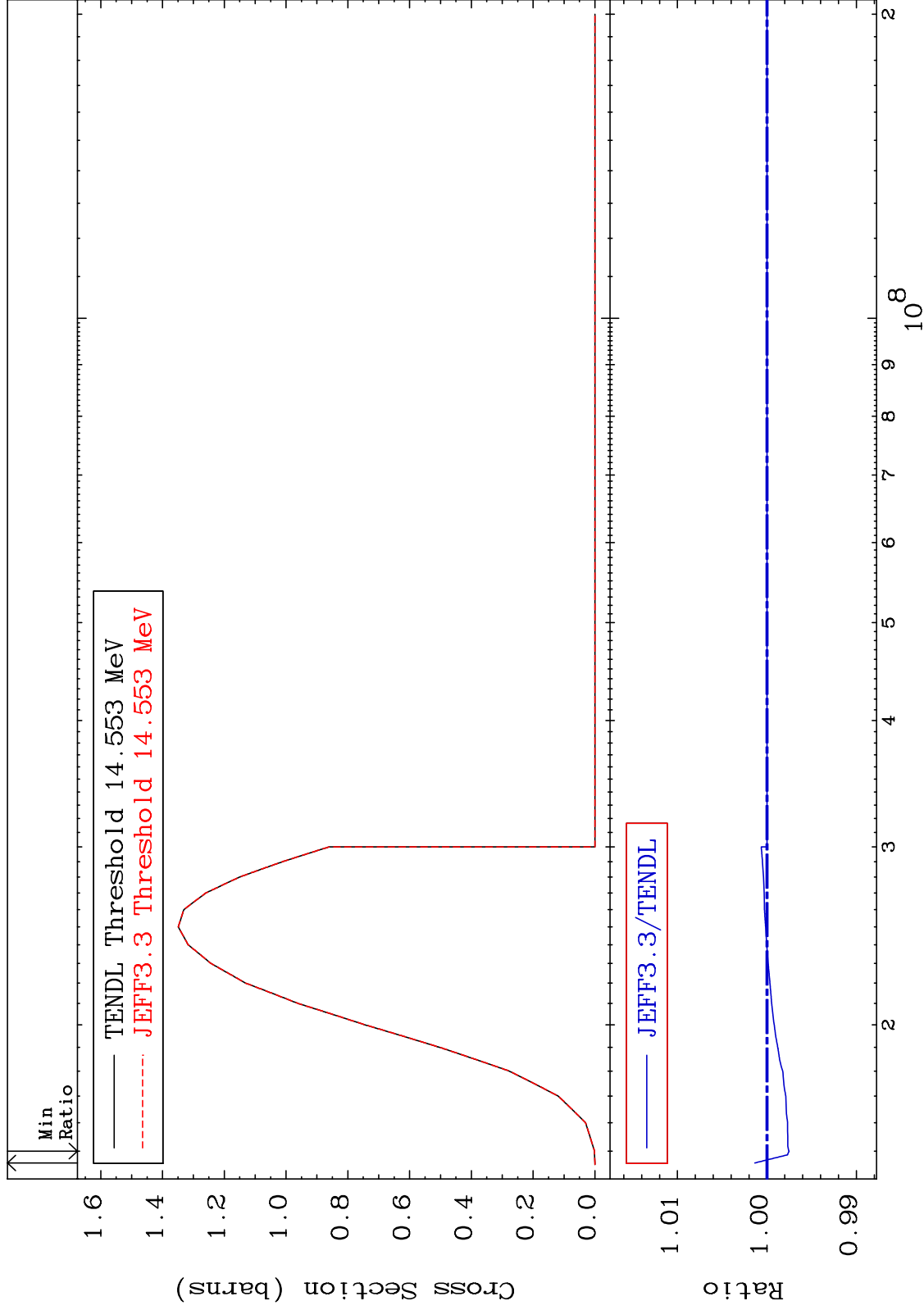
MAT 5061

(n,3n)

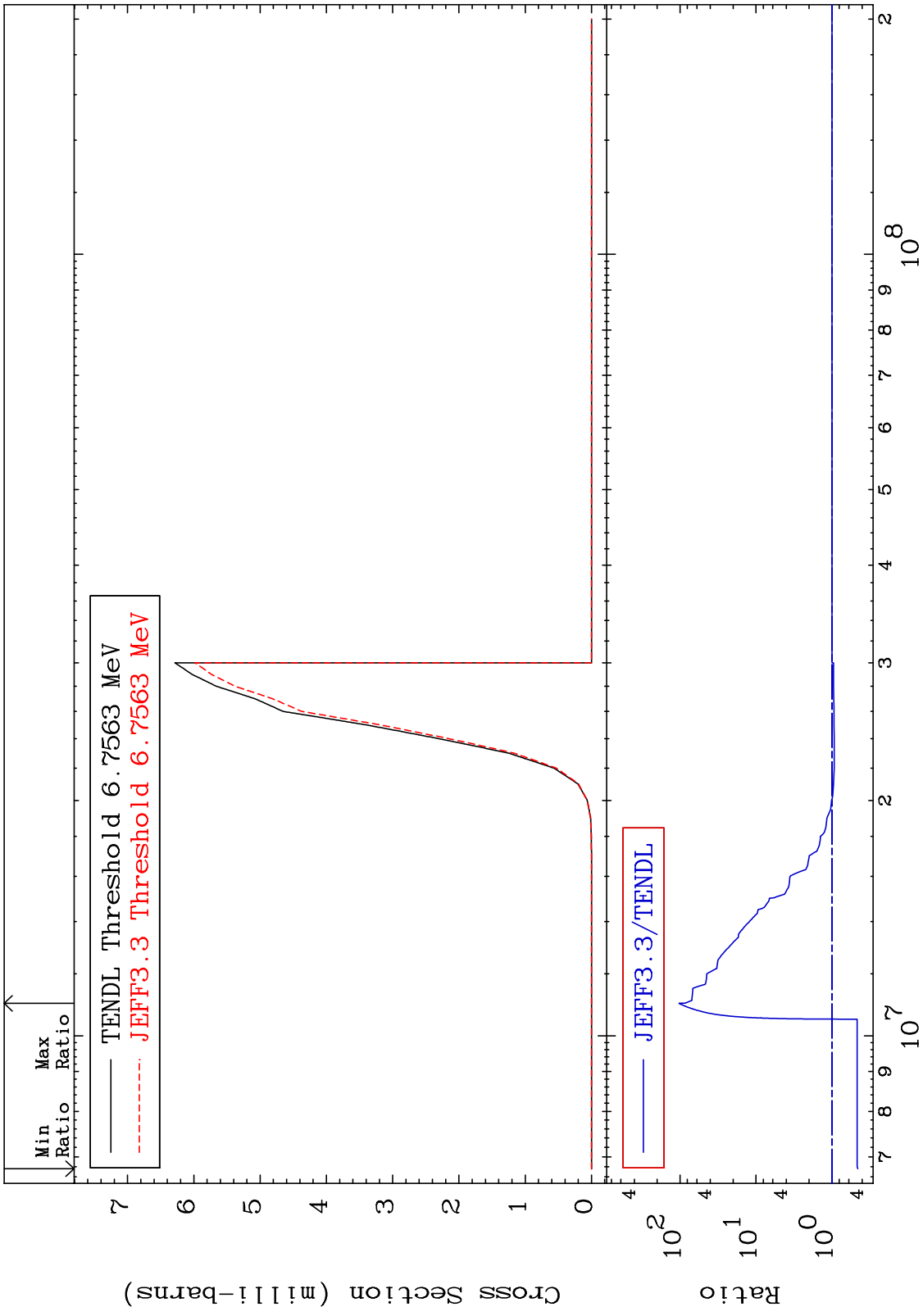
50-Sn-124

Cross Section

-0.247 To 0.136 %



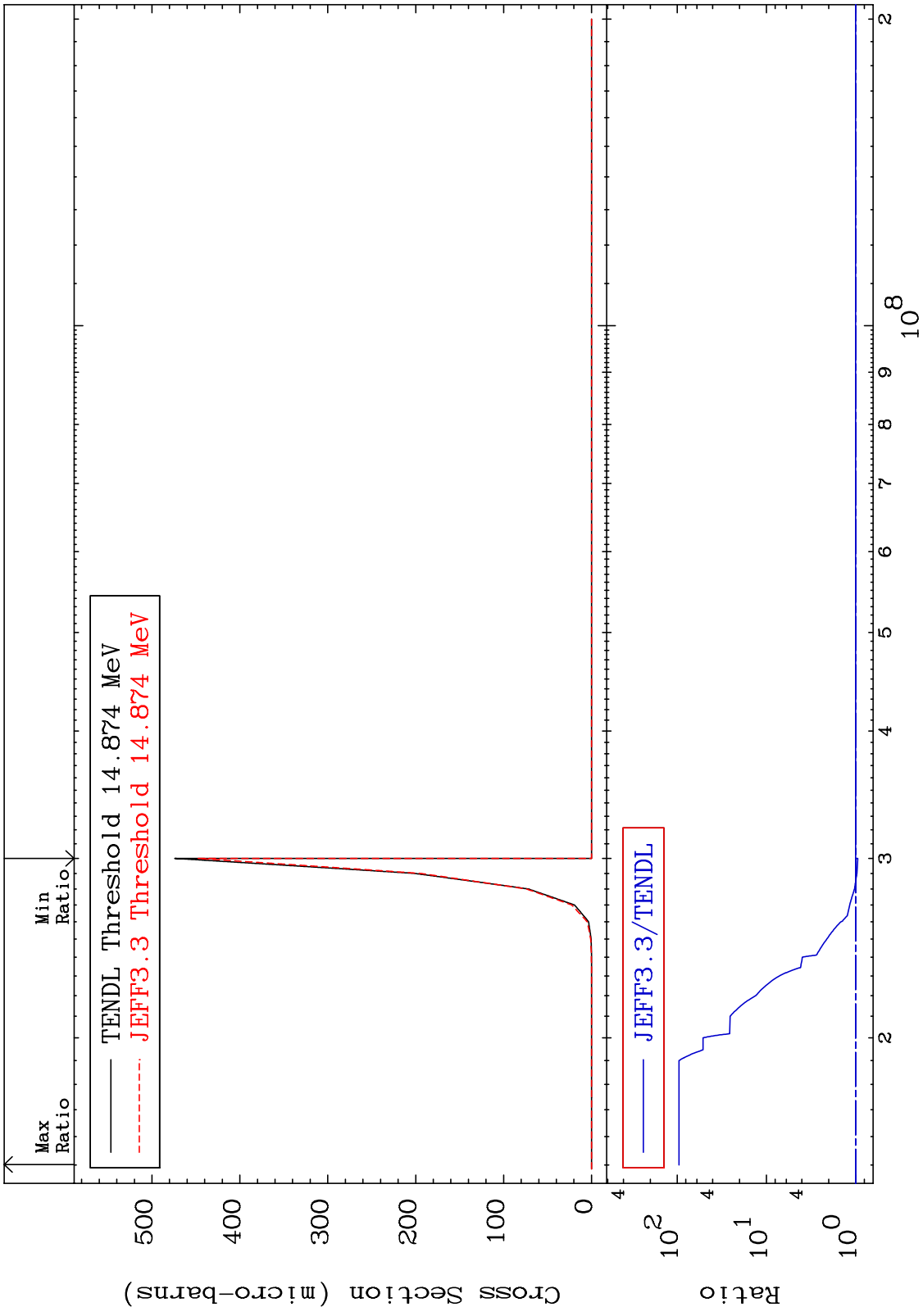
MAT 5061  $(n, n') \alpha$  50-Sn-124  
 Cross Section -54.40 To 9999. %



7 50-Sn-124



MAT 5061  $(n, 2n) \alpha$  50-Sn-124  
 Cross Section -5.538 To 9439. %



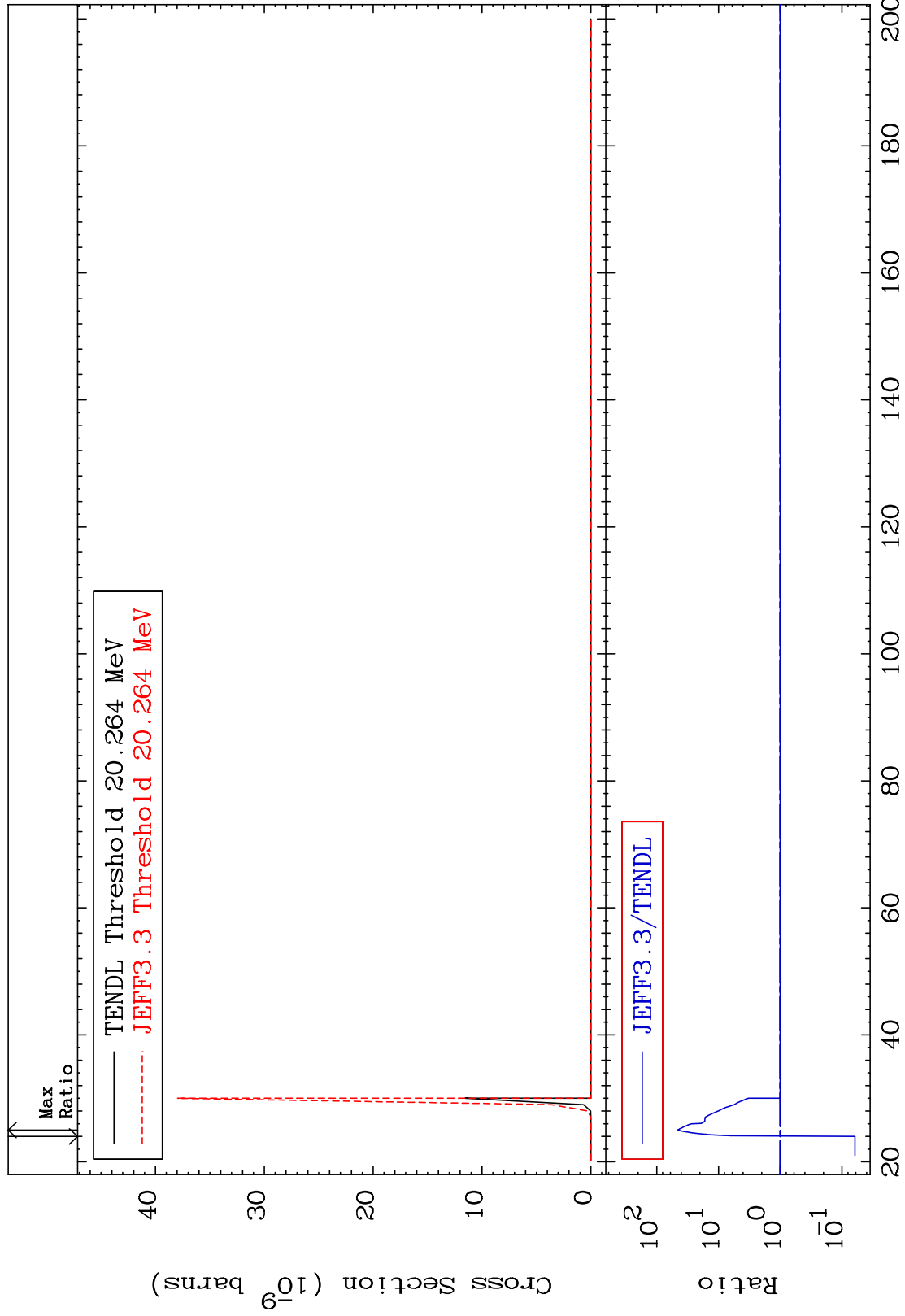
MAT 5061

(n,3n)  $\alpha$

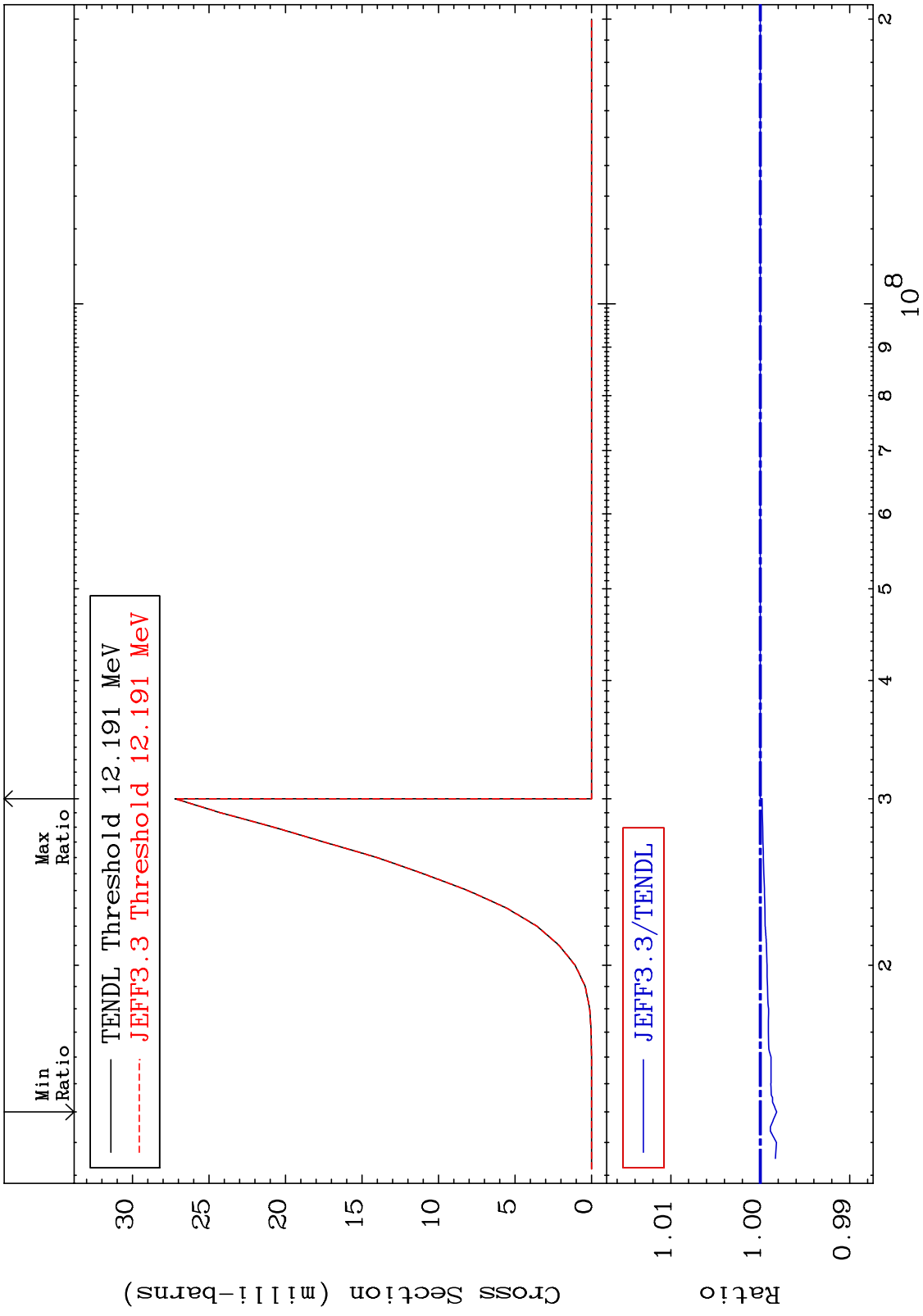
50-Sn-124

Cross Section

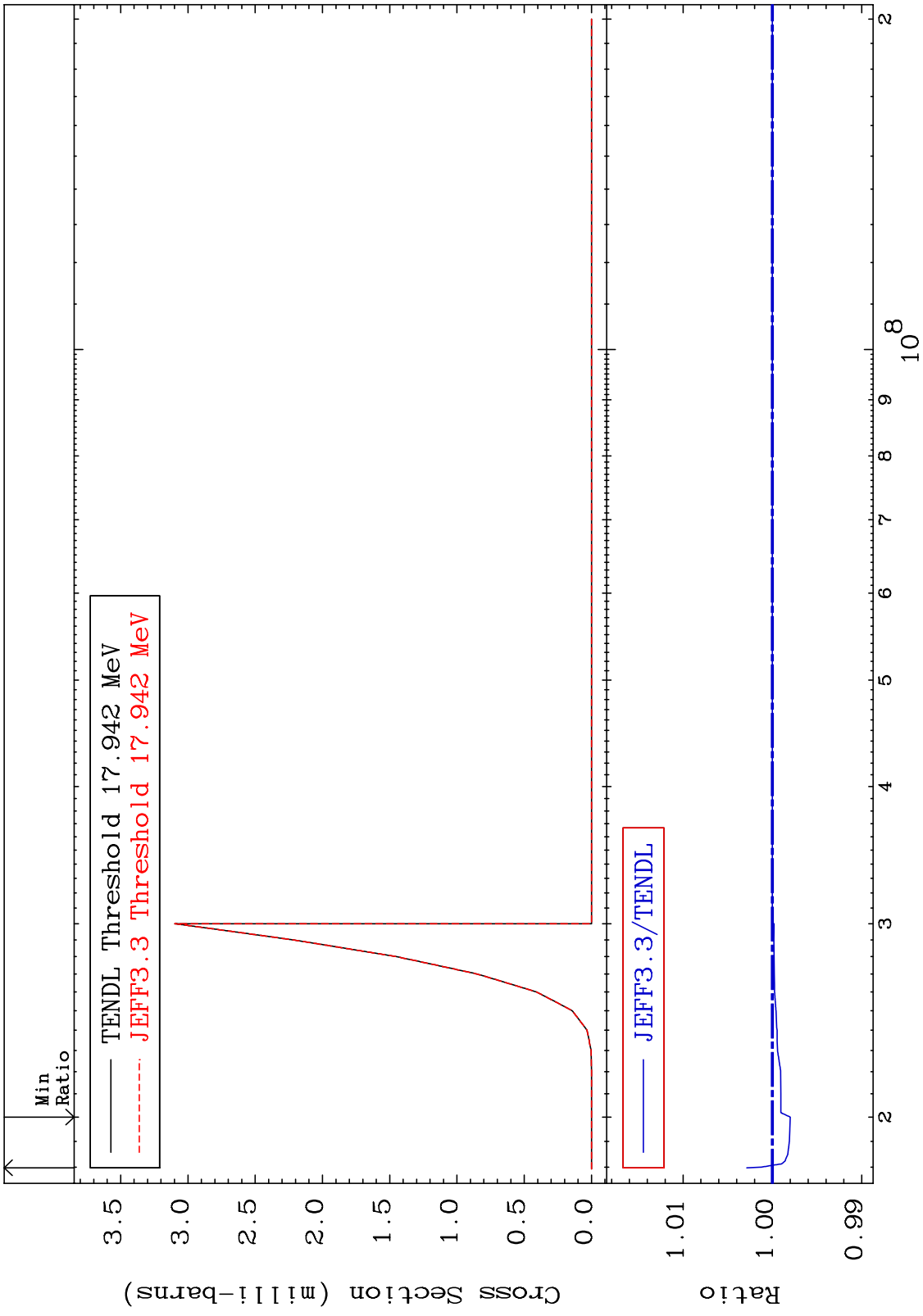
-93.84 To 4477. %



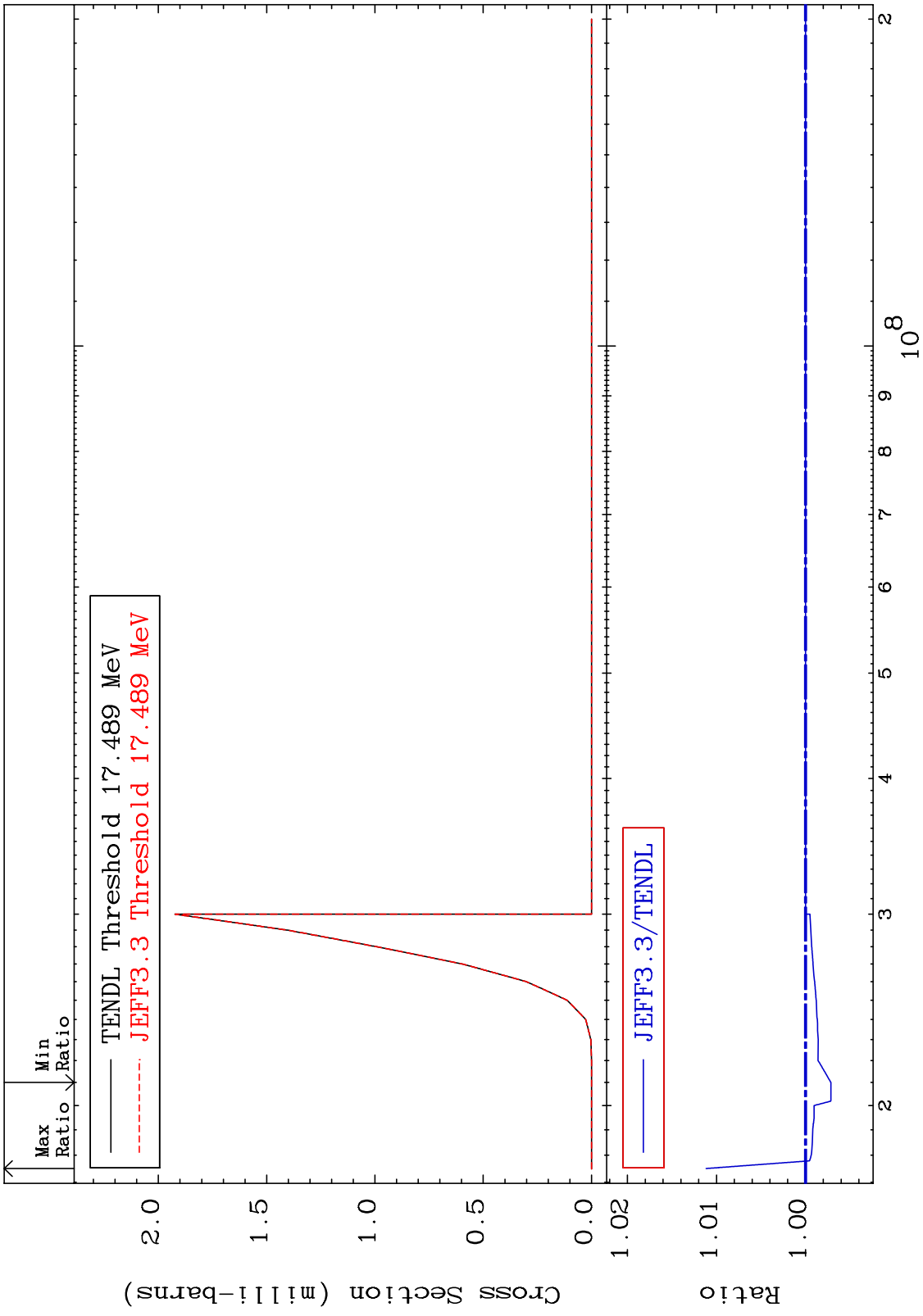
MAT 5061 (n, n') p 50-Sn-124  
 Cross Section -0.183 To 0.000 %



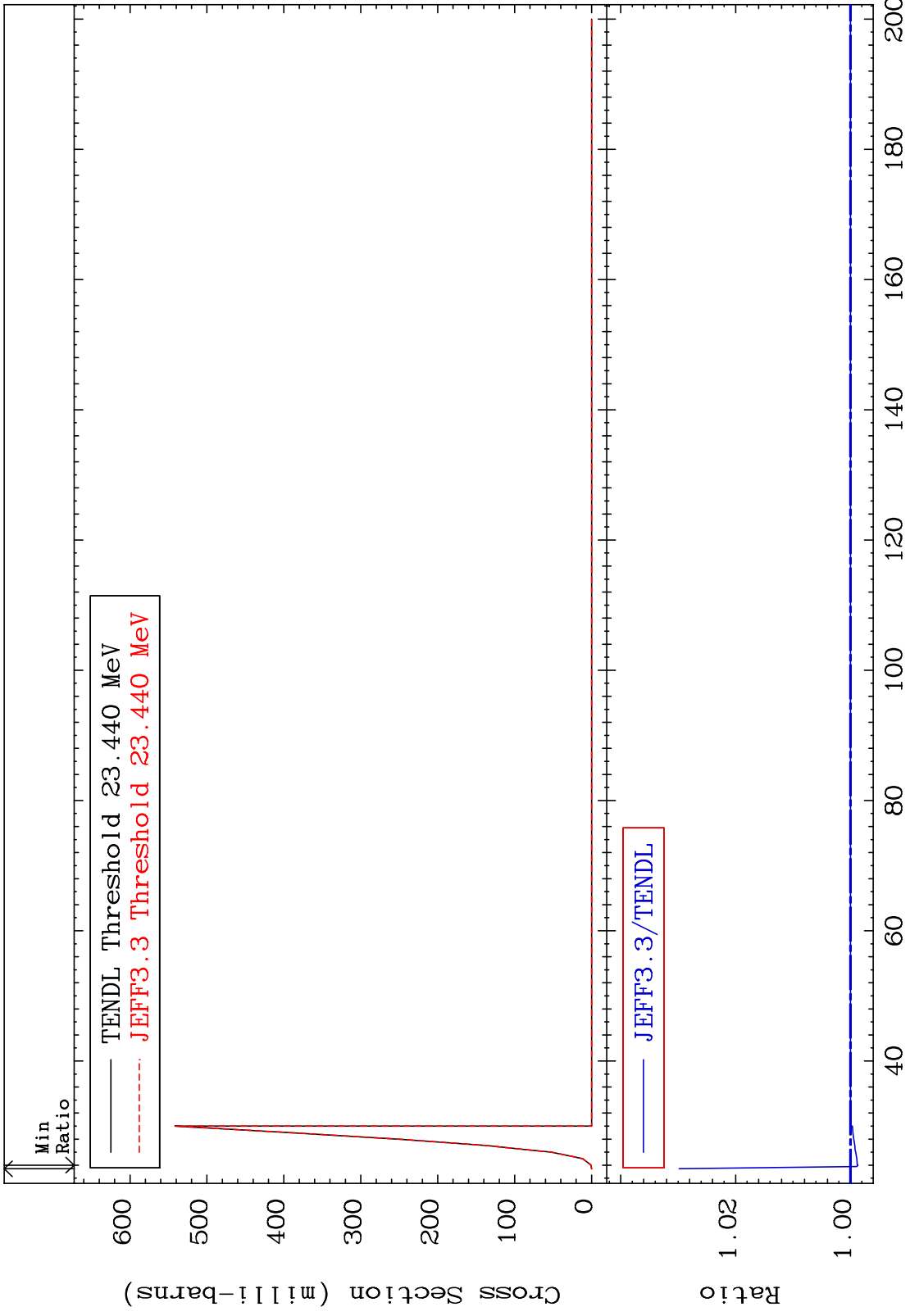
MAT 5061 (n,n') d 50-Sn-124  
 Cross Section -0.199 To 0.287 %



MAT 5061 (n,n') t 50-Sn-124  
 Cross Section -0.285 To 1.118 %



MAT 5061 (n,4n) 50-Sn-124  
 Cross Section -0.131 To 2.983 %

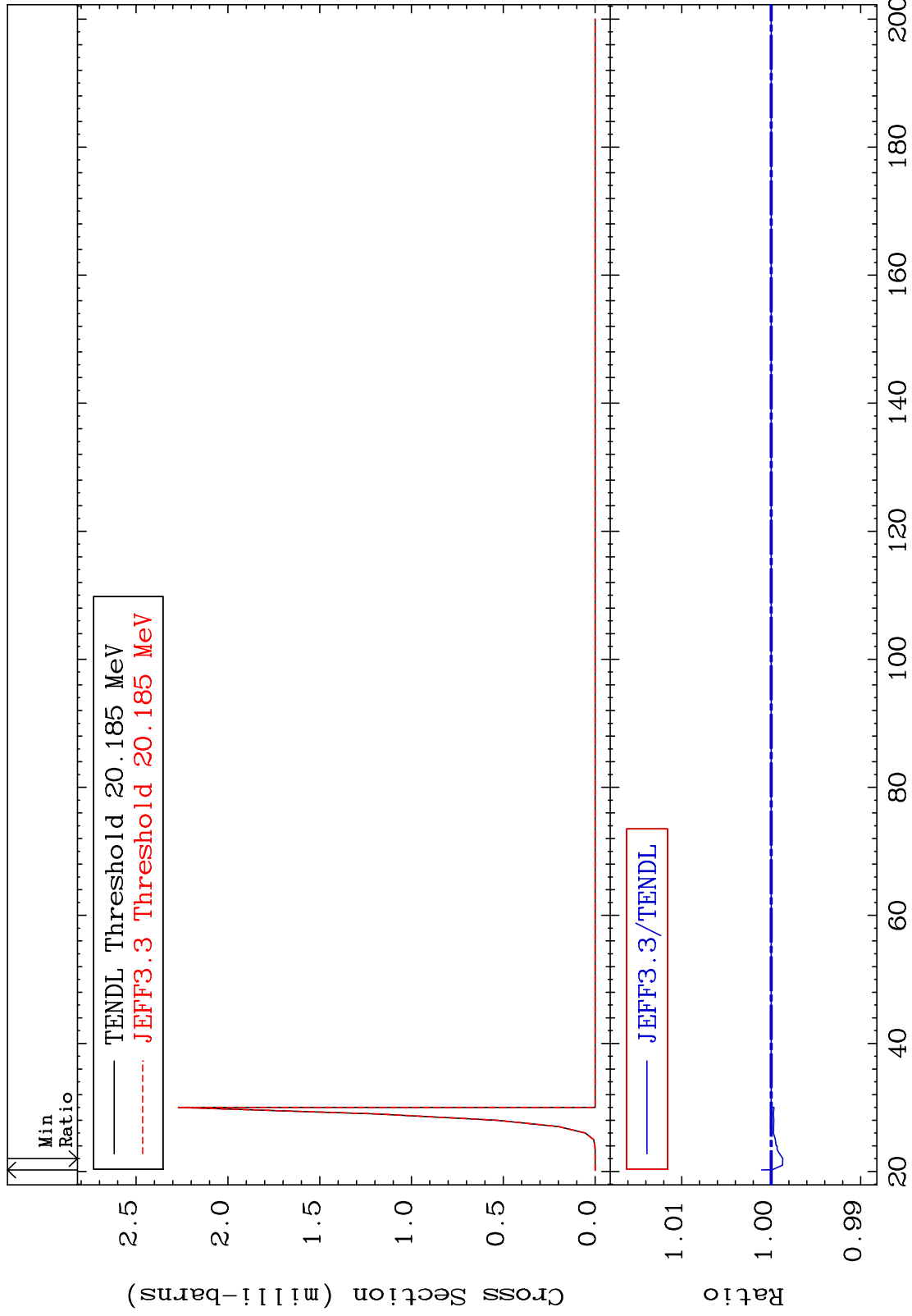


Incident Energy (MeV) 50-Sn-124

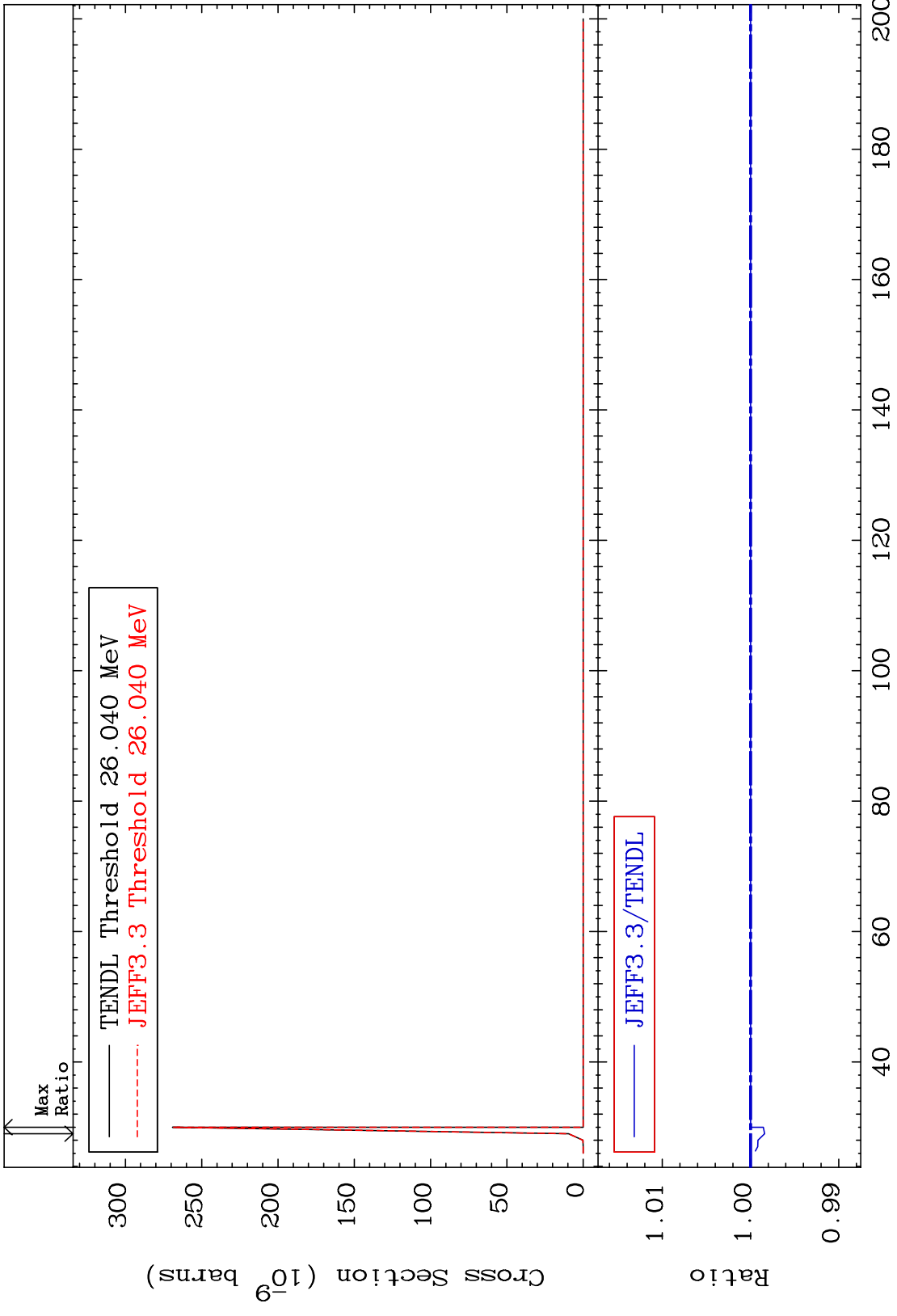
MAT 5061

(n,2n) p  
Cross Section

50-Sn-124  
-0.130 To 0.107 %

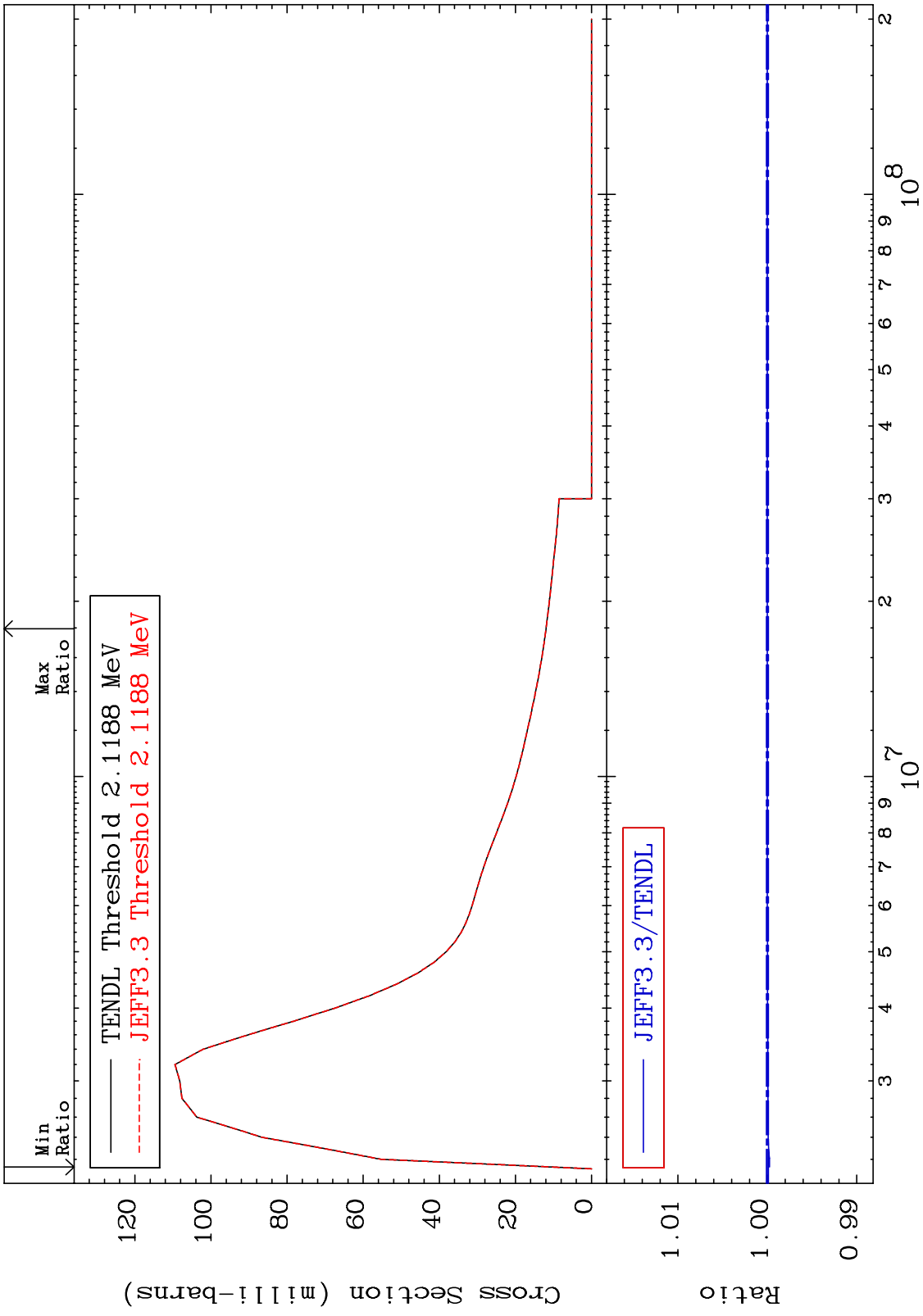


MAT 5061 (n,3n) p 50-Sn-124  
Cross Section -0.159 To 0.000 %

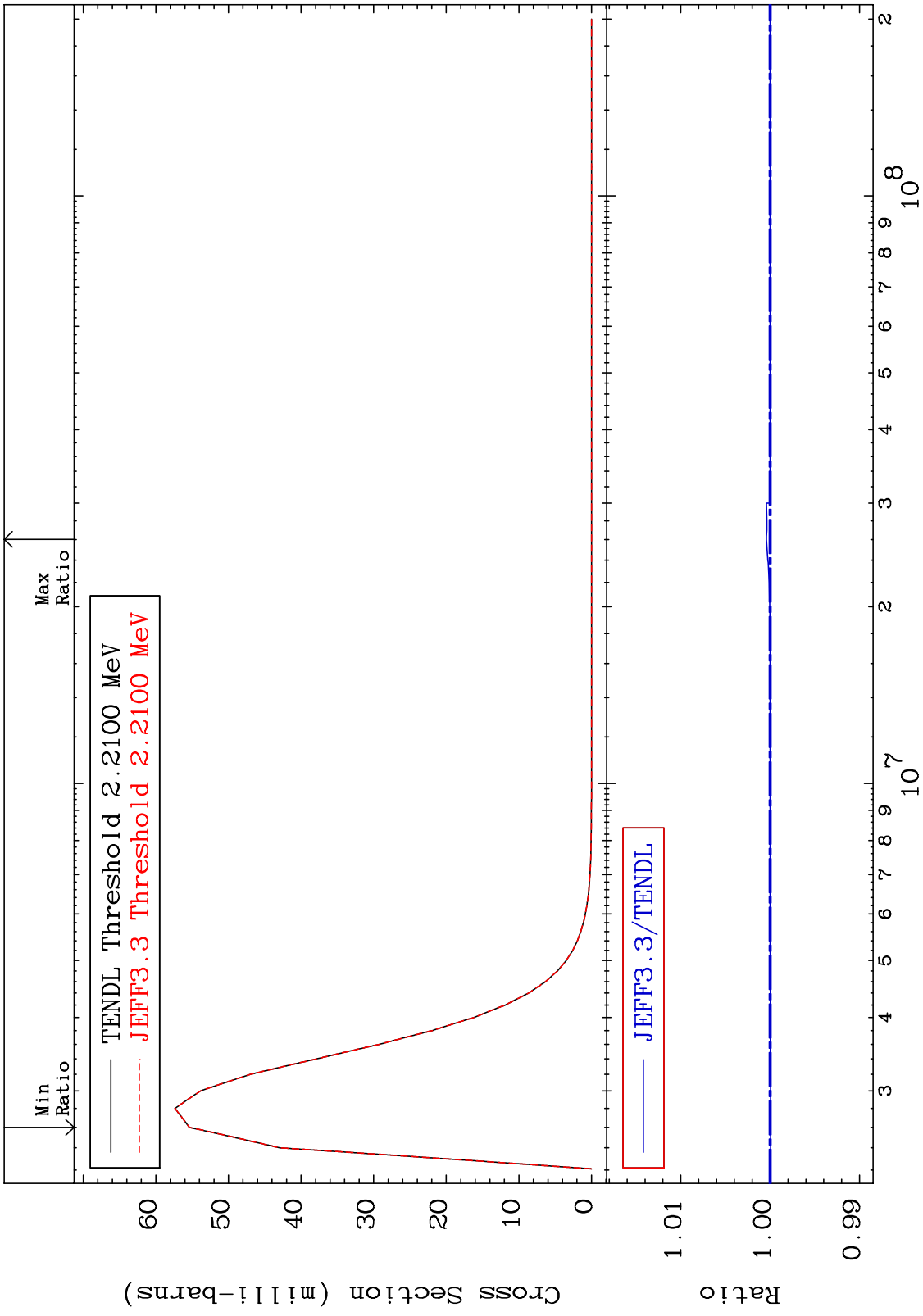




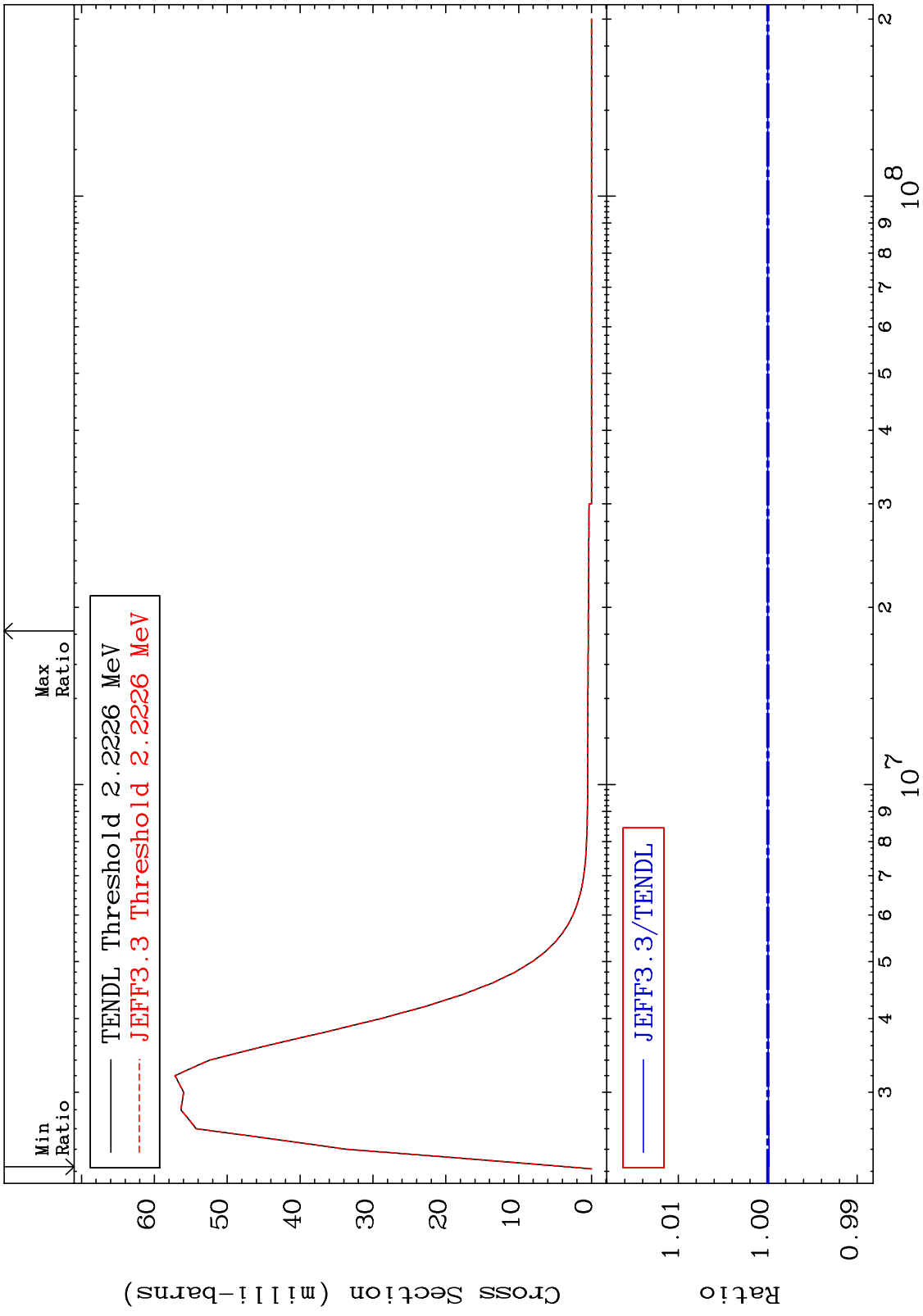
MAT 5061 MT= 52 (n,n') Level Cross Section 50-Sn-124 -0.024 To 0.000 %



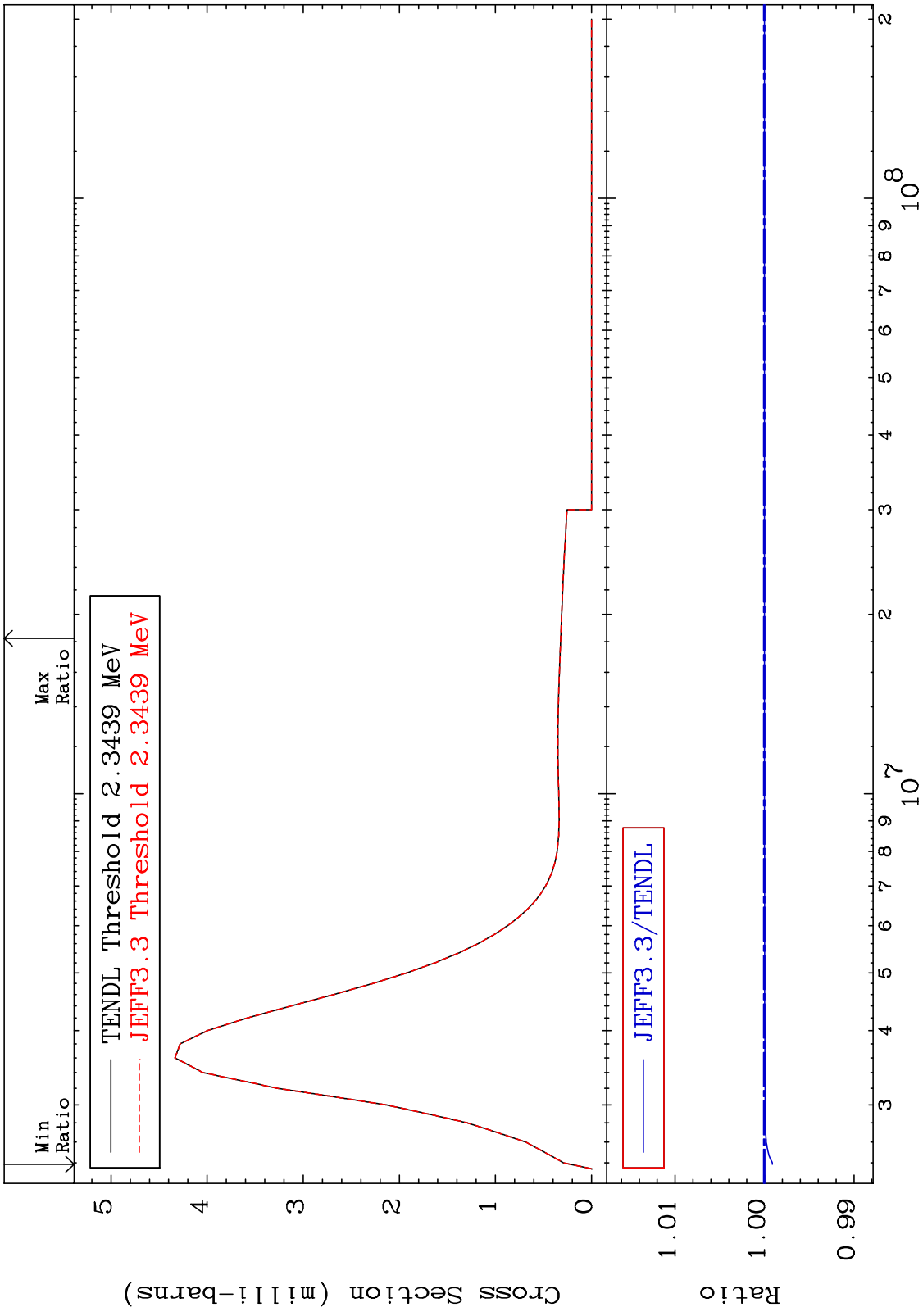
MAT 5061 MT= 54 (n,n') Level Cross Section 50-Sn-124 -0.004 To 0.042 %



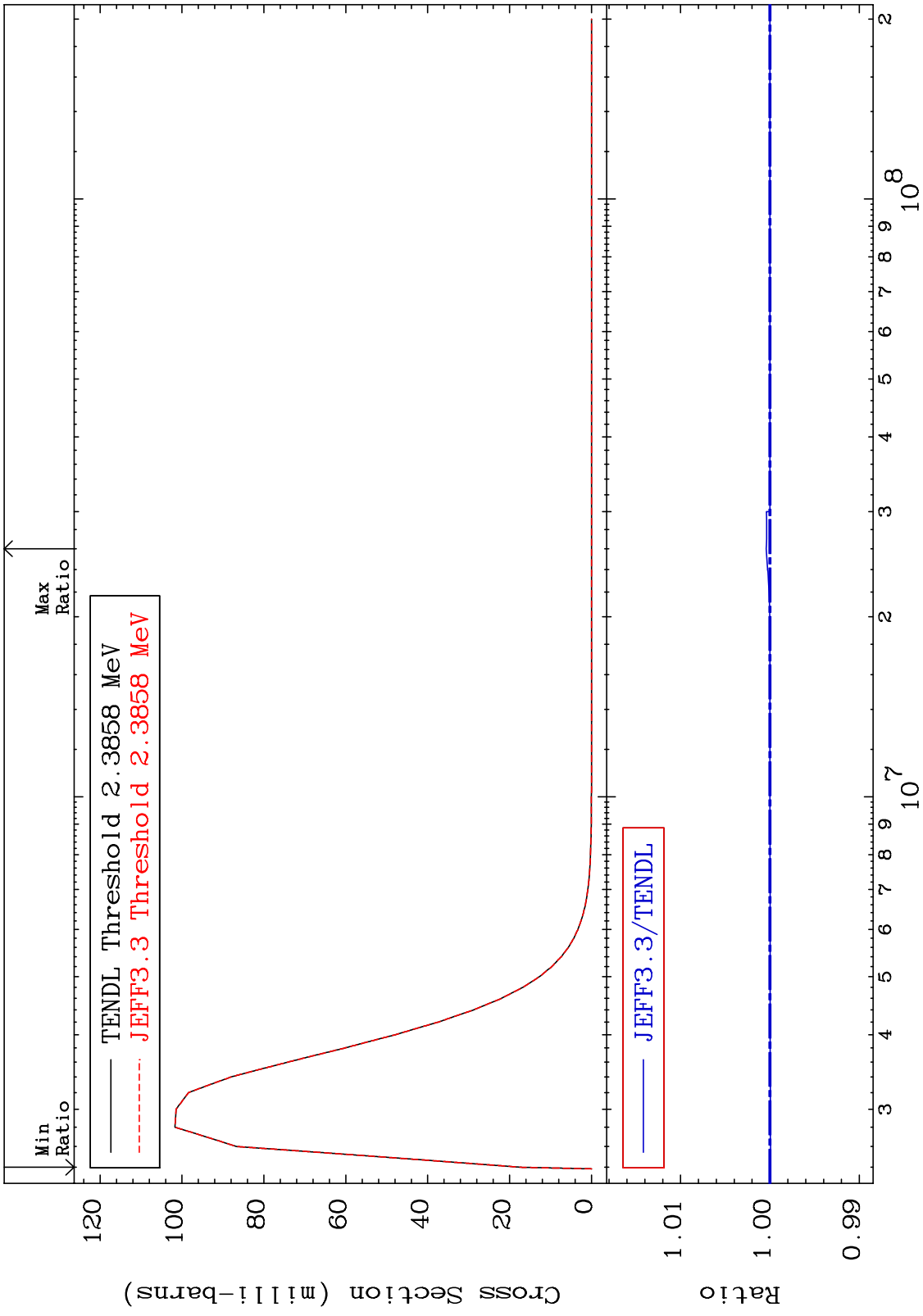
MAT 5061 MT= 55 (n,n') Level Cross Section 50-Sn-124 -0.014 To 0.000 %



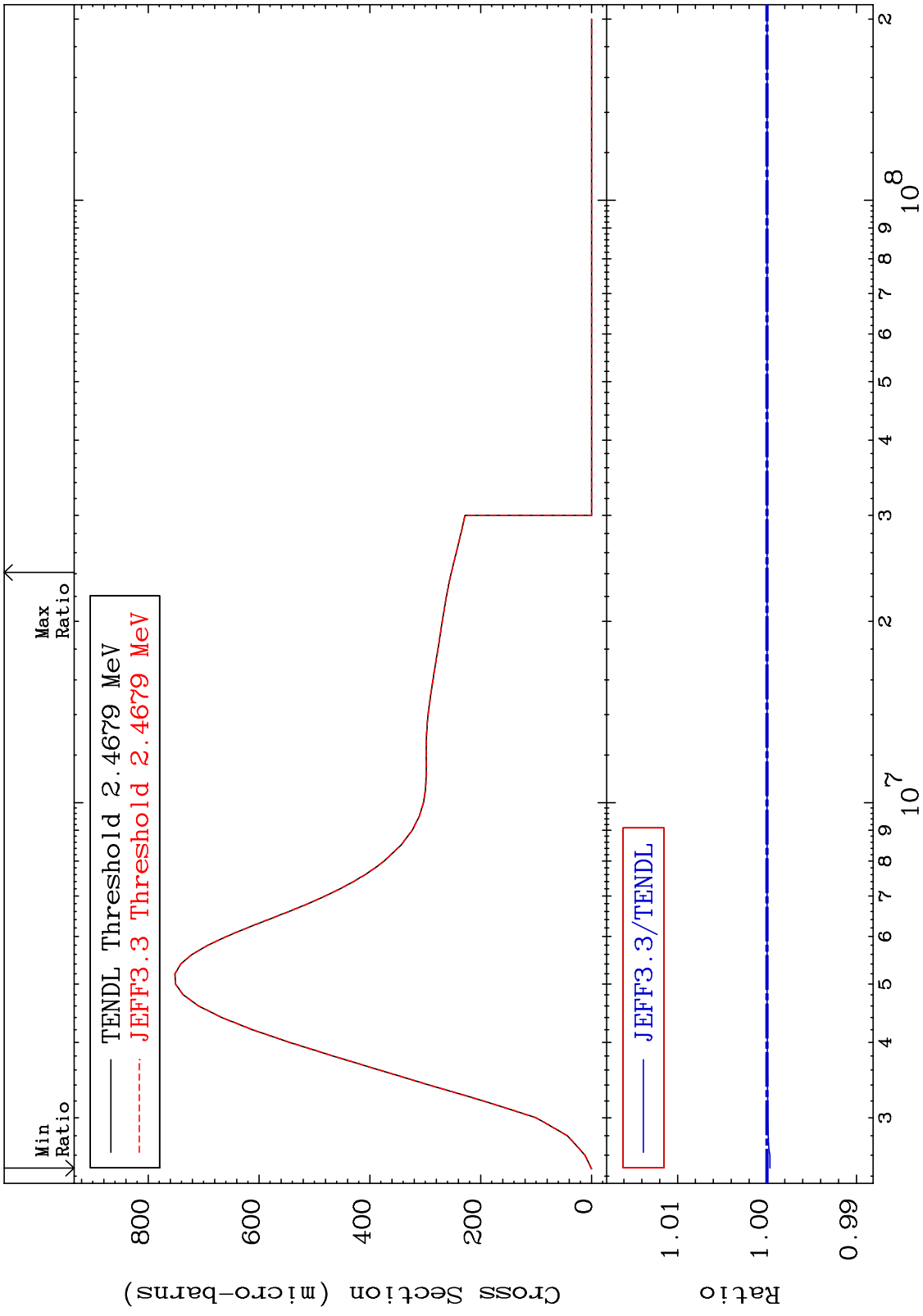
MAT 5061 MT= 57 (n,n') Level Cross Section 50-Sn-124 -0.087 To 0.000 %



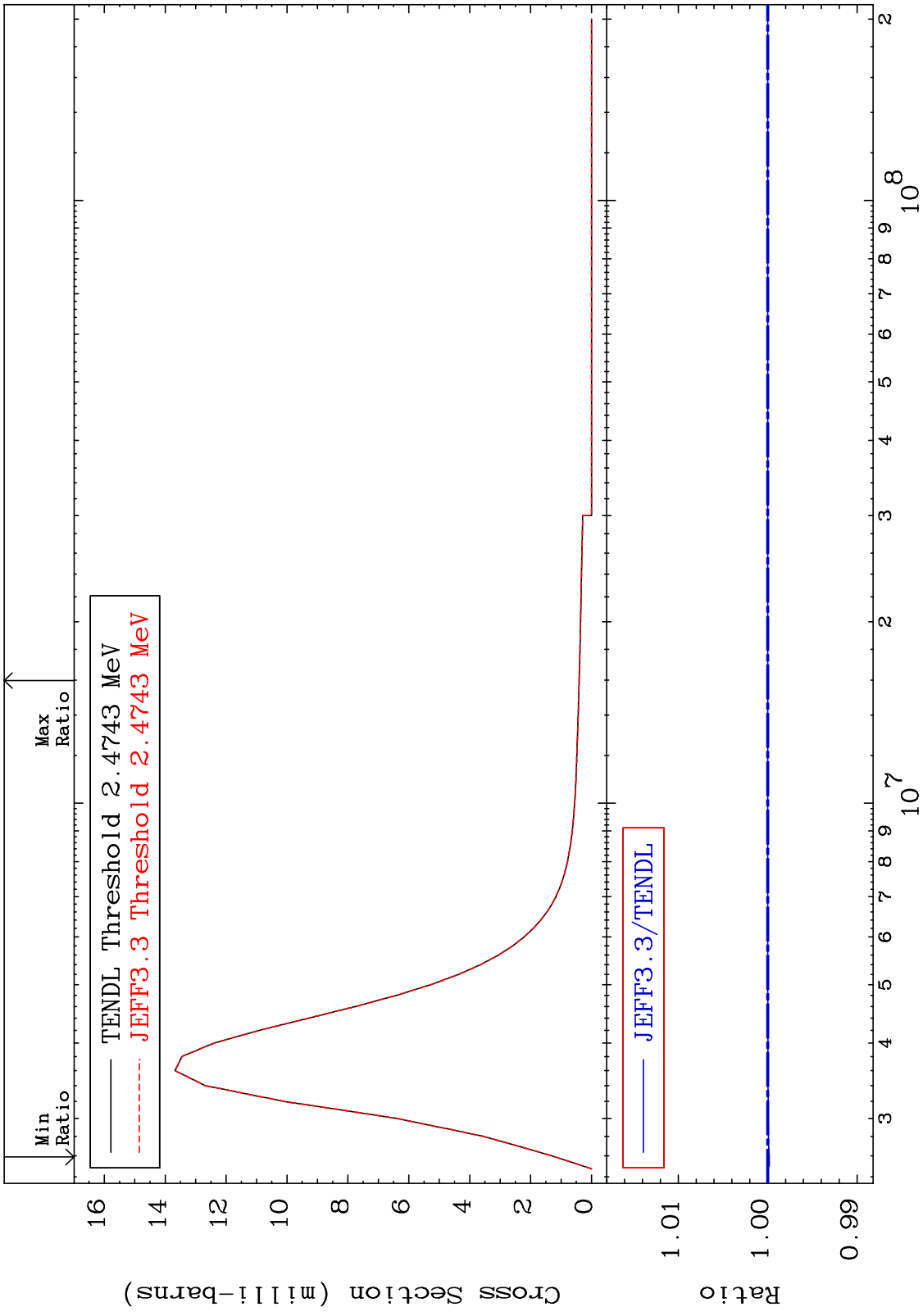
MAT 5061 MT= 58 (n,n') Level Cross Section 50-Sn-124 -0.008 To 0.042 %



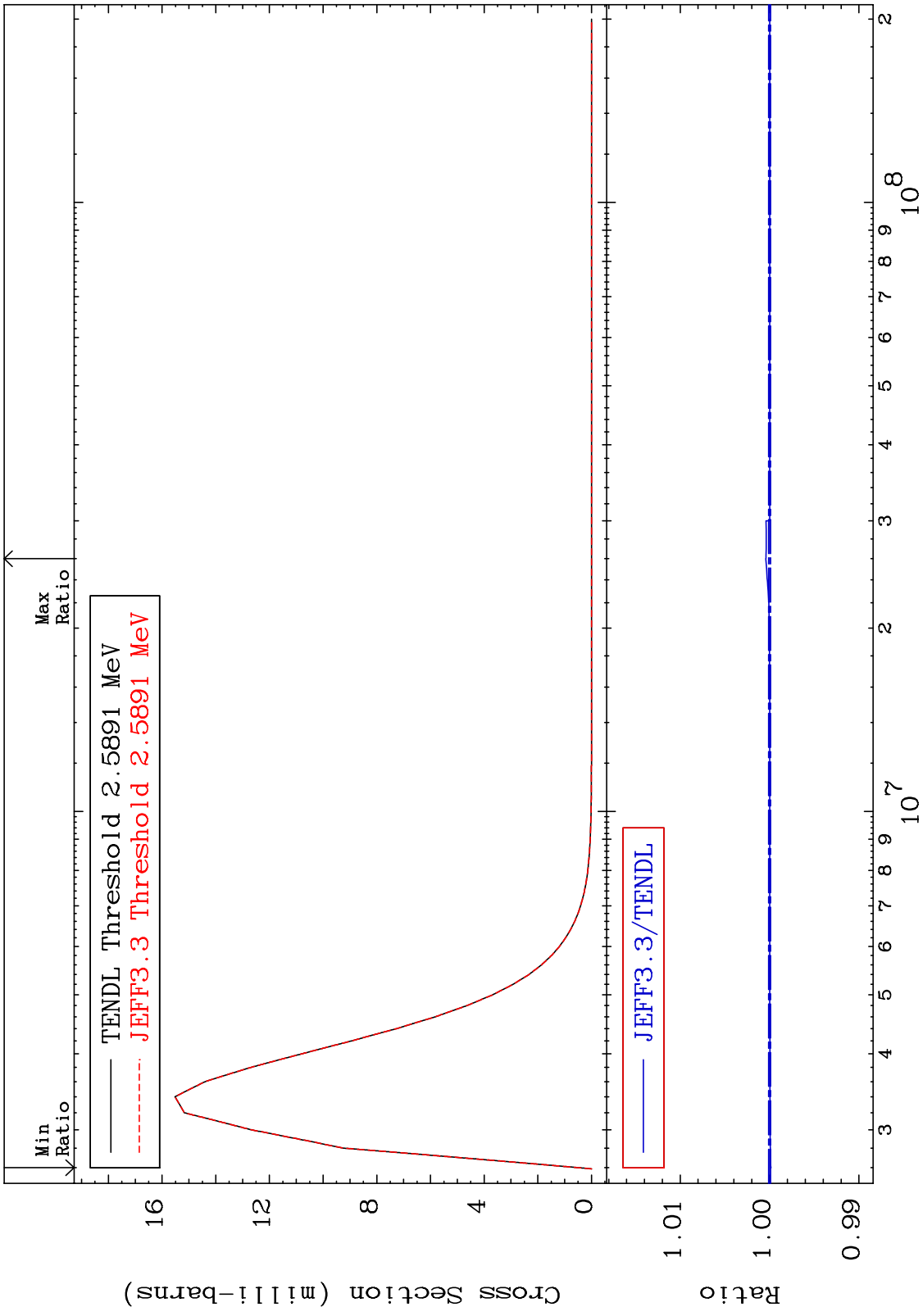
MAT 5061 MT= 60 (n,n') Level Cross Section 50-Sn-124  
 -0.033 To 0.000 %



MAT 5061 MT= 61 (n,n') Level Cross Section 50-Sn-124  
 -0.017 To 0.000 %

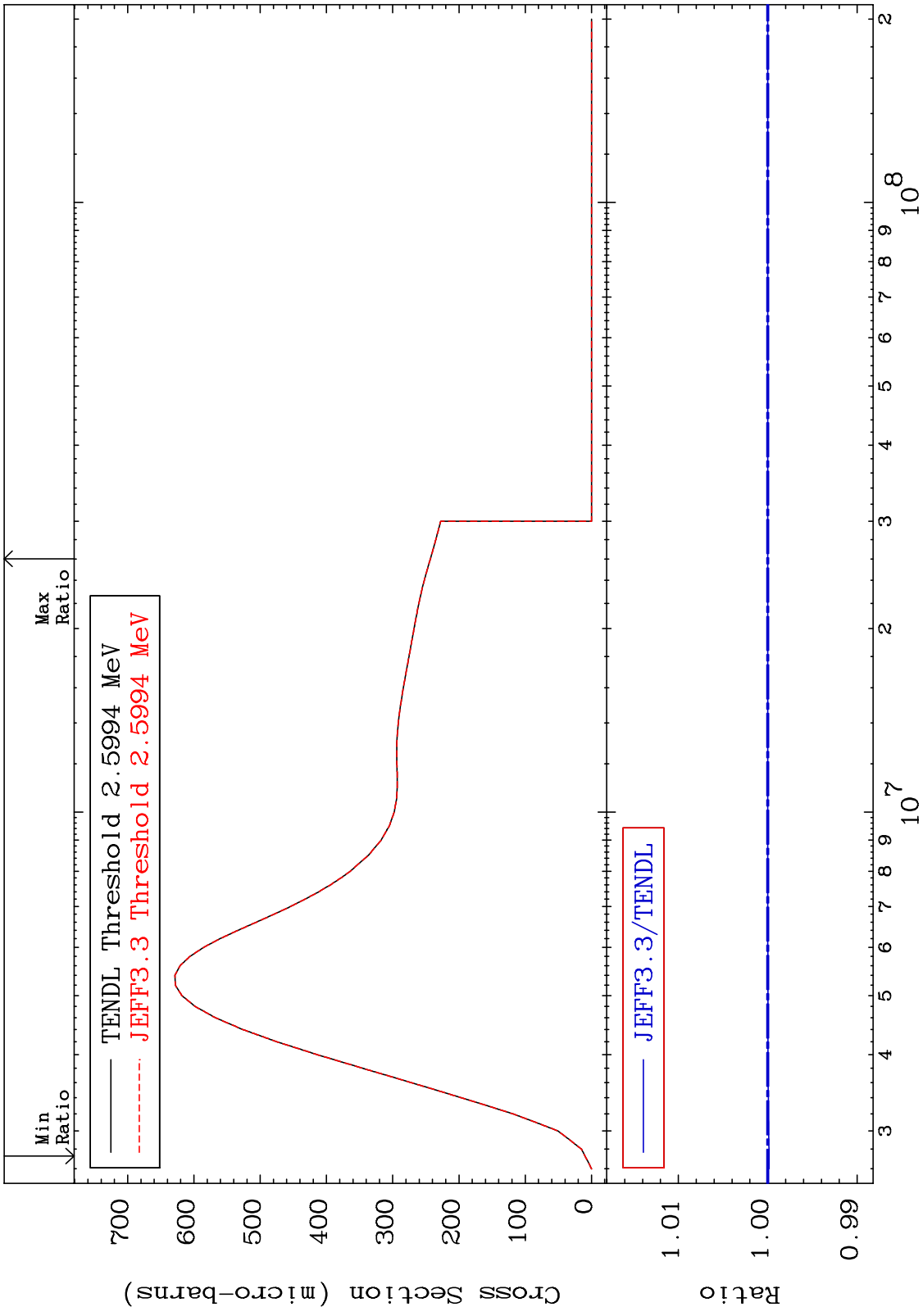


MAT 5061 MT= 62 (n,n') Level Cross Section 50-Sn-124 -0.016 To 0.042 %

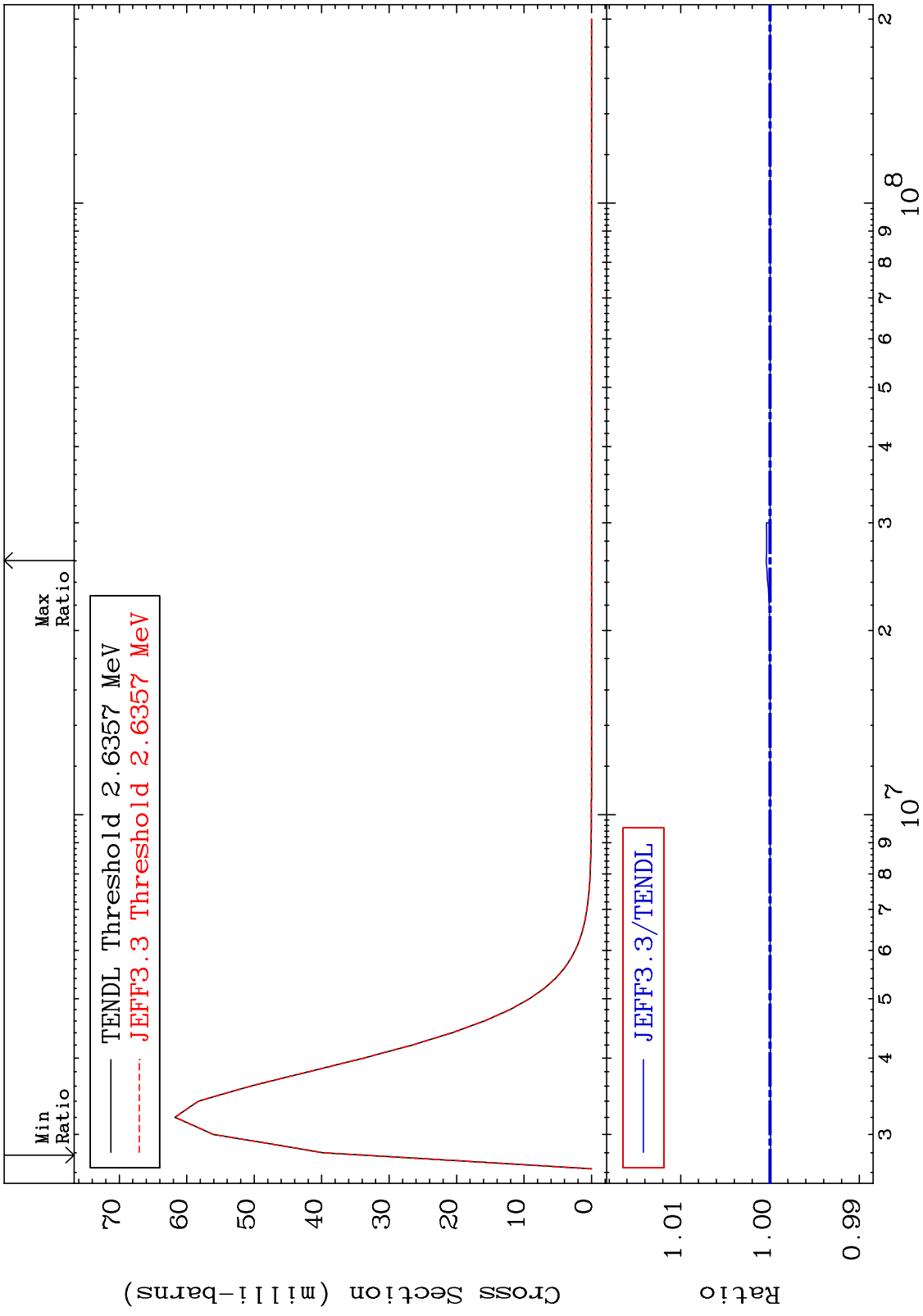




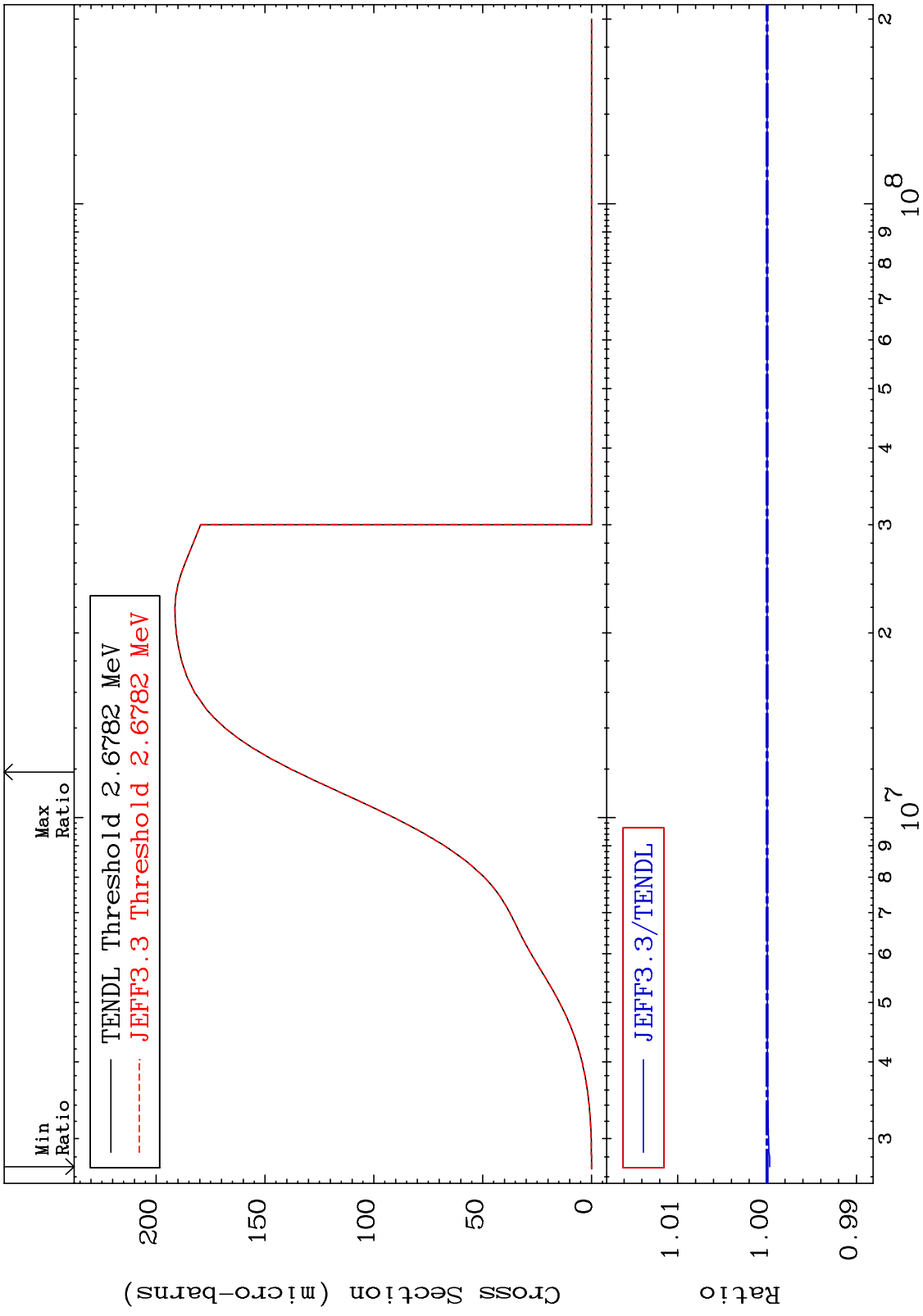
MAT 5061 MT= 63 (n,n') Level Cross Section 50-Sn-124  
 -0.015 To 0.000 %



MAT 5061 MT= 65 (n,n') Level Cross Section 50-Sn-124 -0.006 To 0.042 %



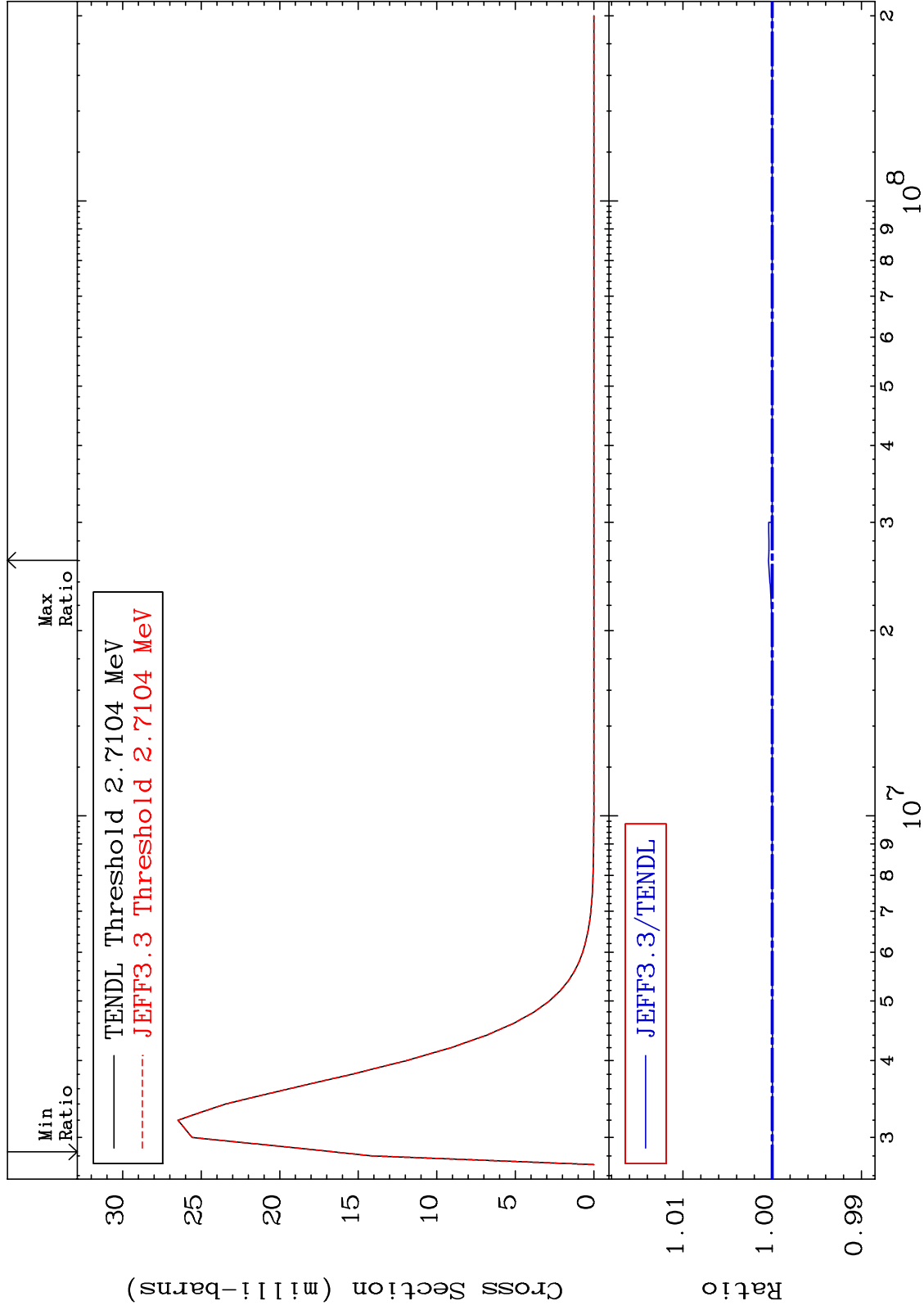
MAT 5061 MT= 66 (n,n') Level Cross Section 50-Sn-124 -0.030 To 0.000 %



MAT 5061

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

50-Sn-124  
-0.004 To 0.042 %



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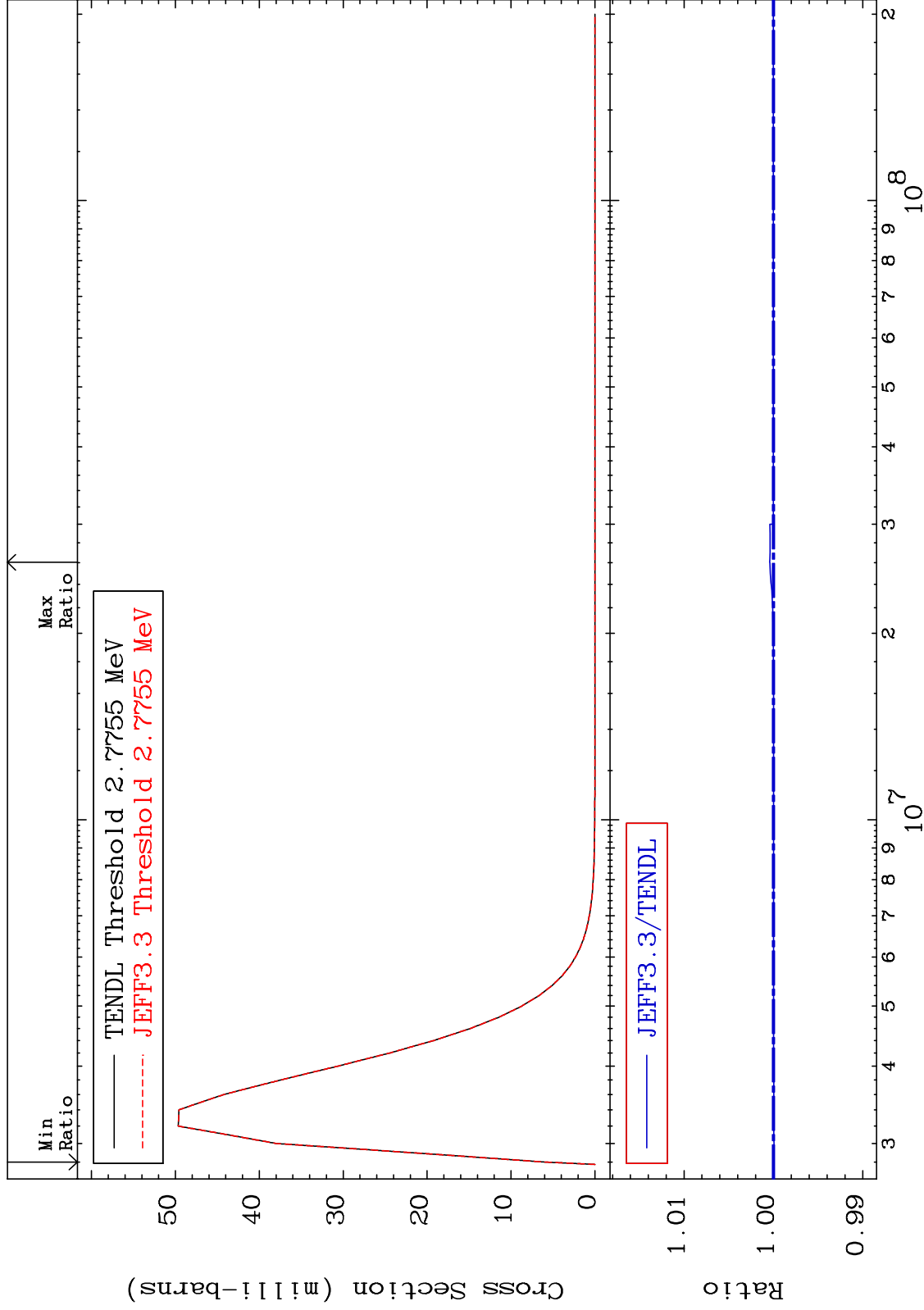
Incident Energy (eV)

50-Sn-124

MAT 5061

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

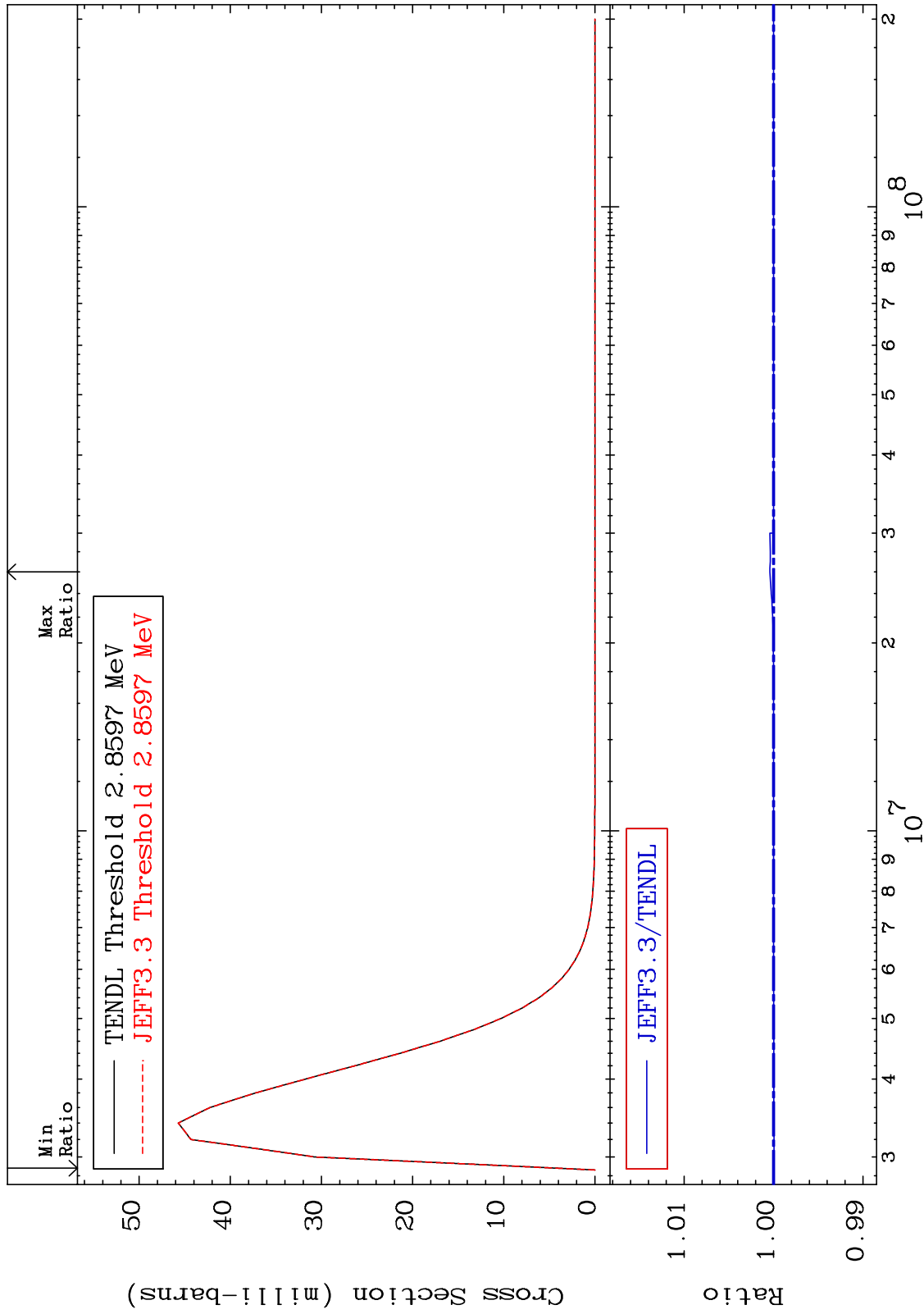
50-Sn-124  
-0.006 To 0.042 %



MAT 5061

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

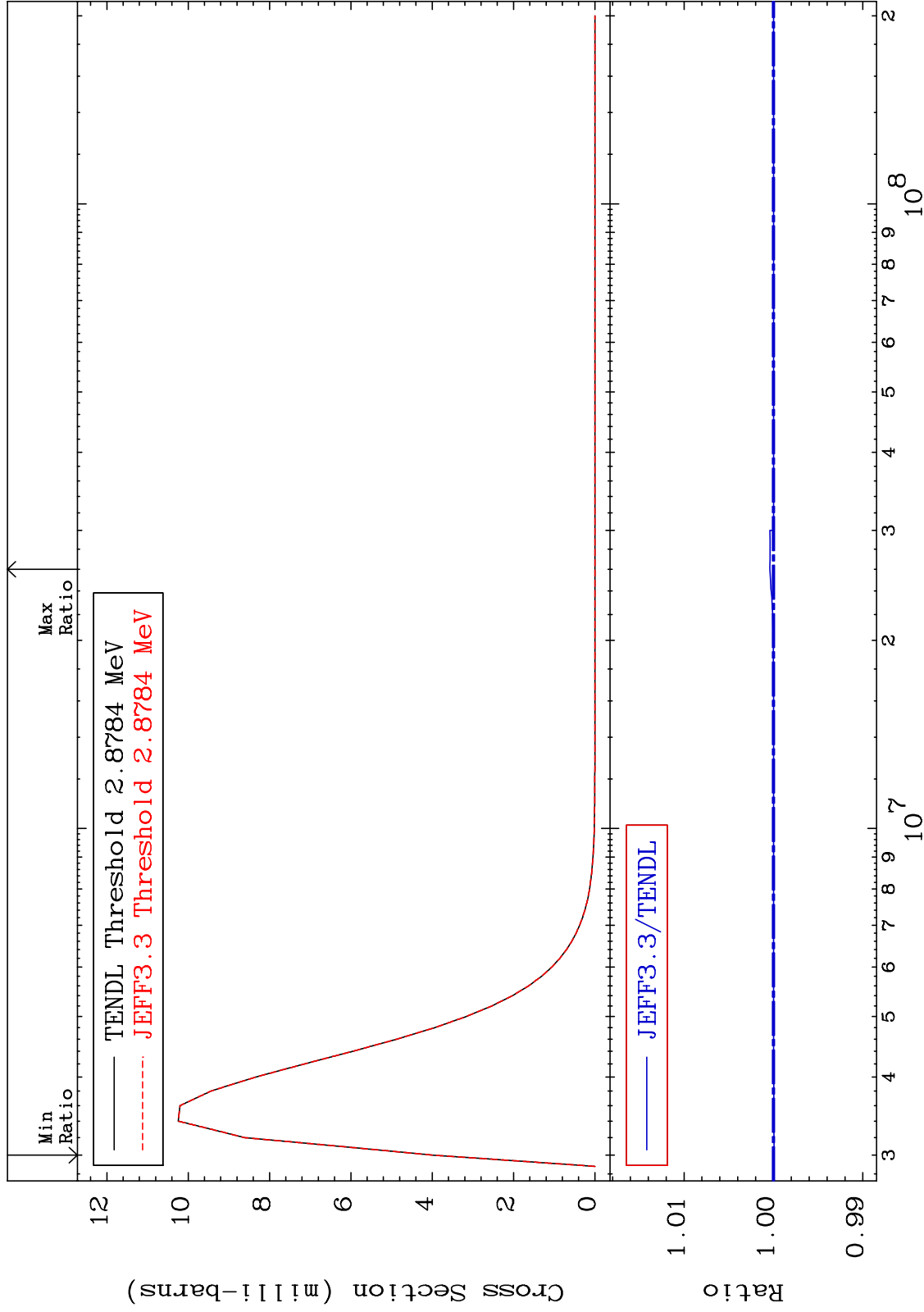
50-Sn-124  
-0.004 To 0.042 %



MAT 5061

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

50-Sn-124  
-0.006 To 0.042 %



30

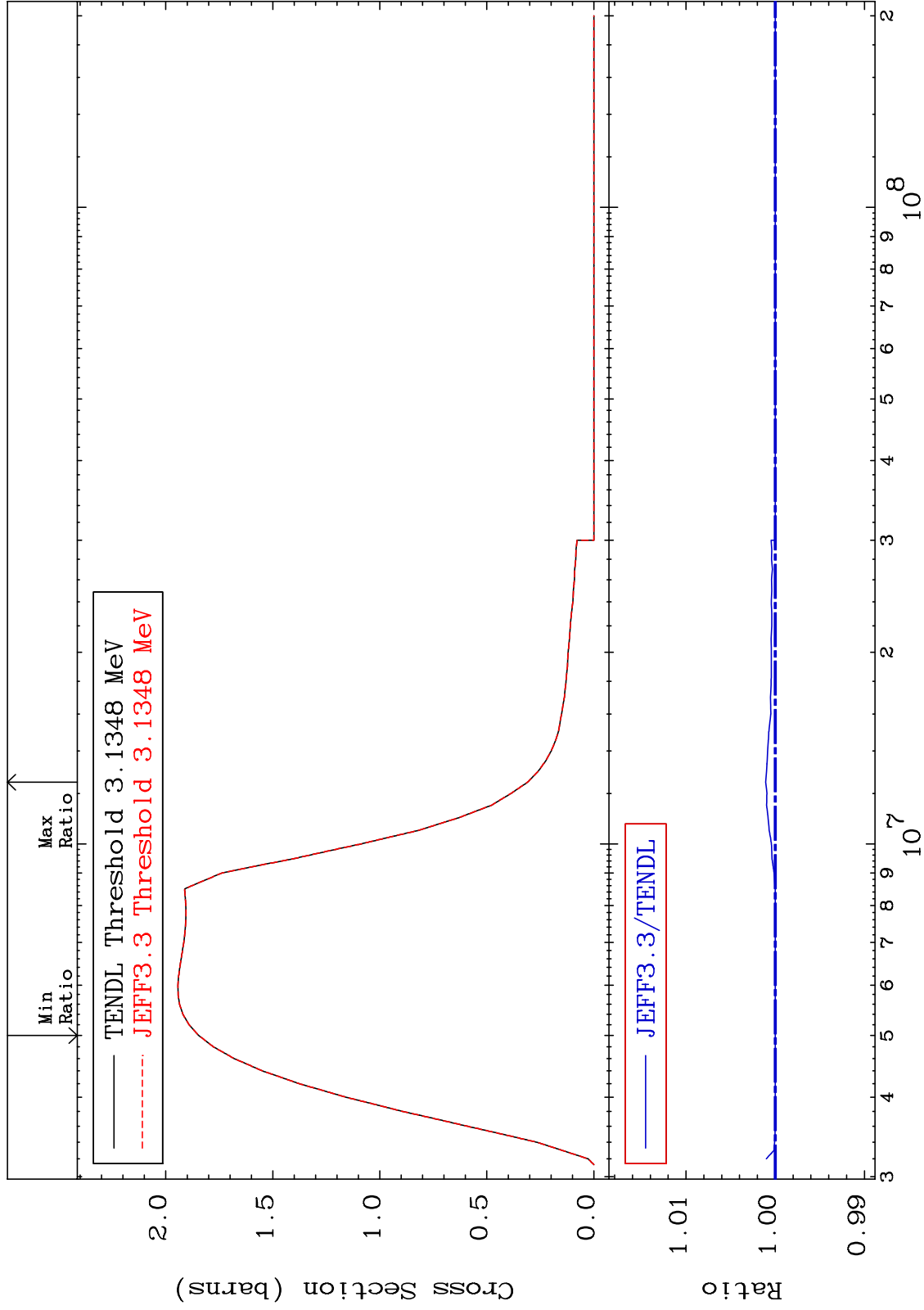
Incident Energy (eV)

50-Sn-124

MAT 5061

(n,n') Continuum  
Cross Section

50-Sn-124  
To 0.106 %





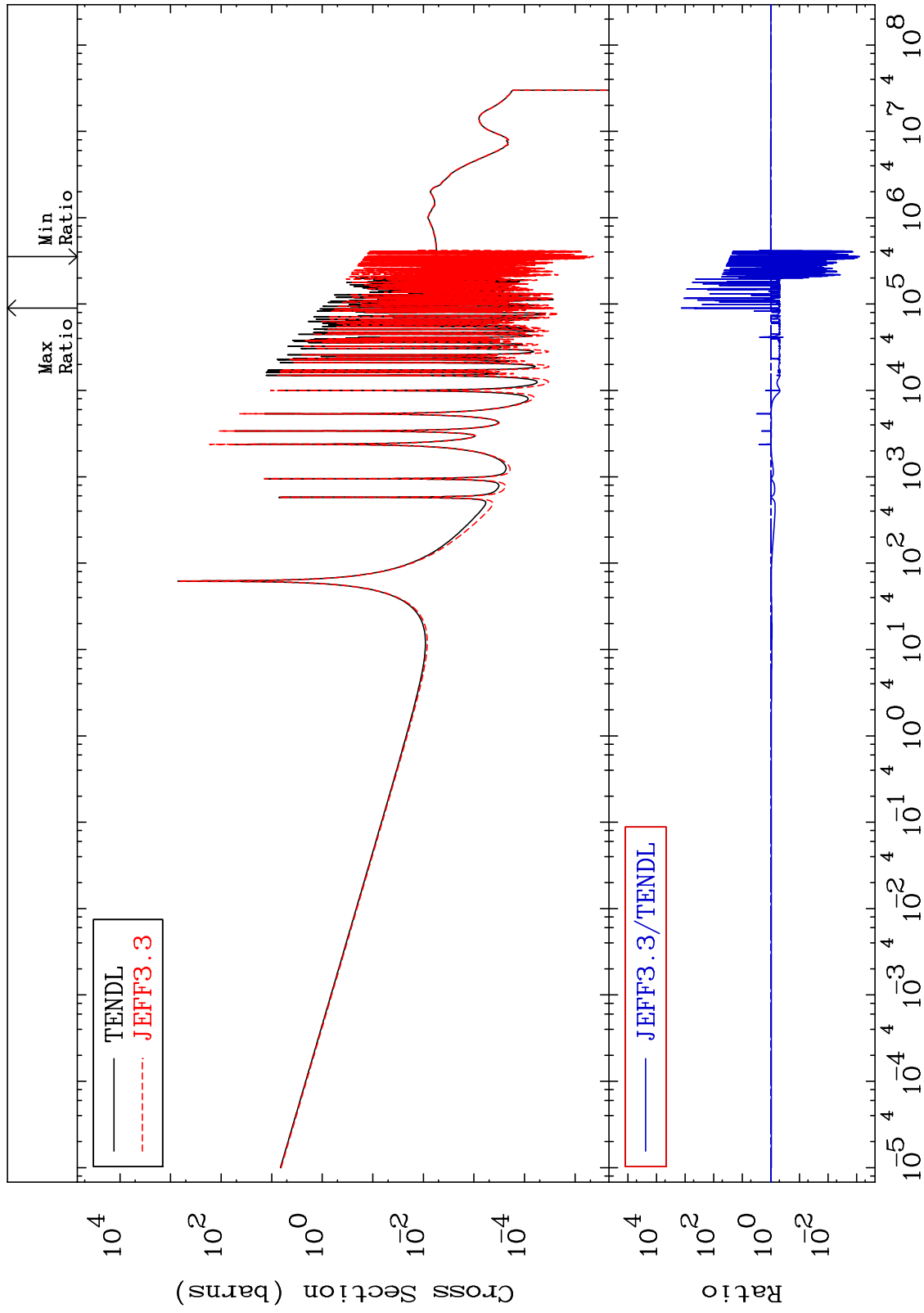
MAT 5061

(n,  $\gamma$ )

50-Sn-124

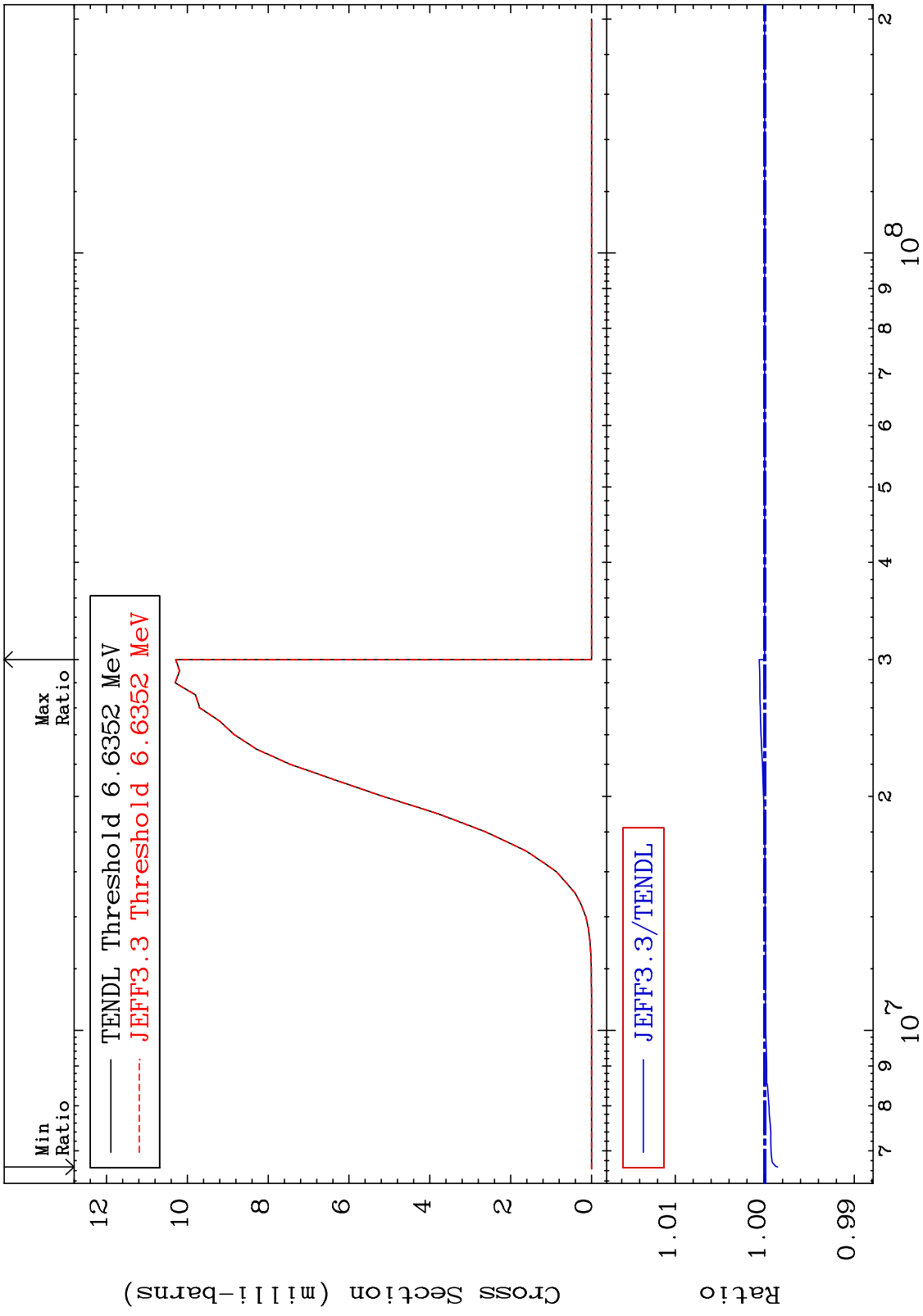
-99.92 To 9999. %

Cross Section



Incident Energy (eV)

50-Sn-124



MAT 5061

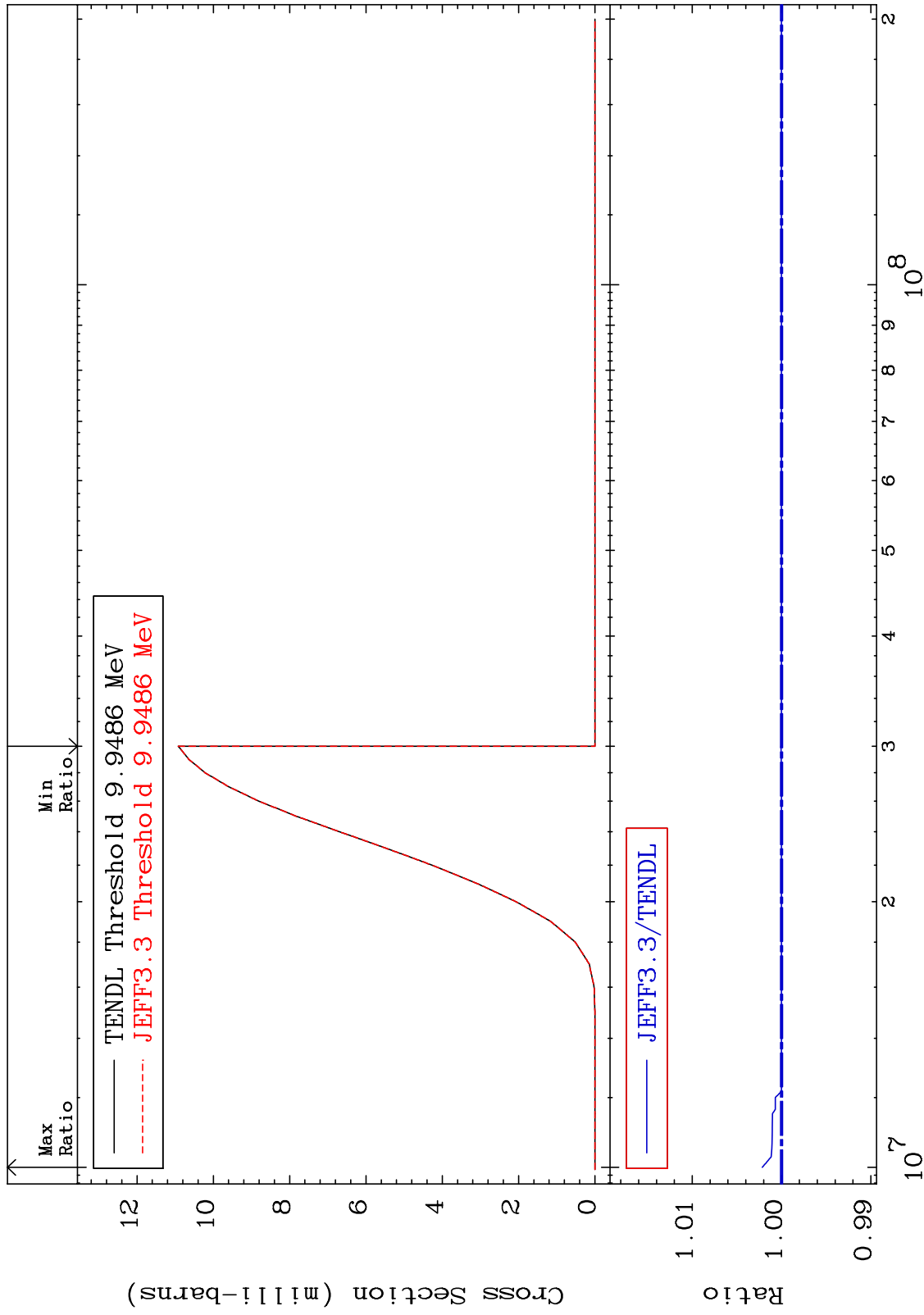
(n,d)

50-Sn-124

Cross Section

0.000

To 0.217 %

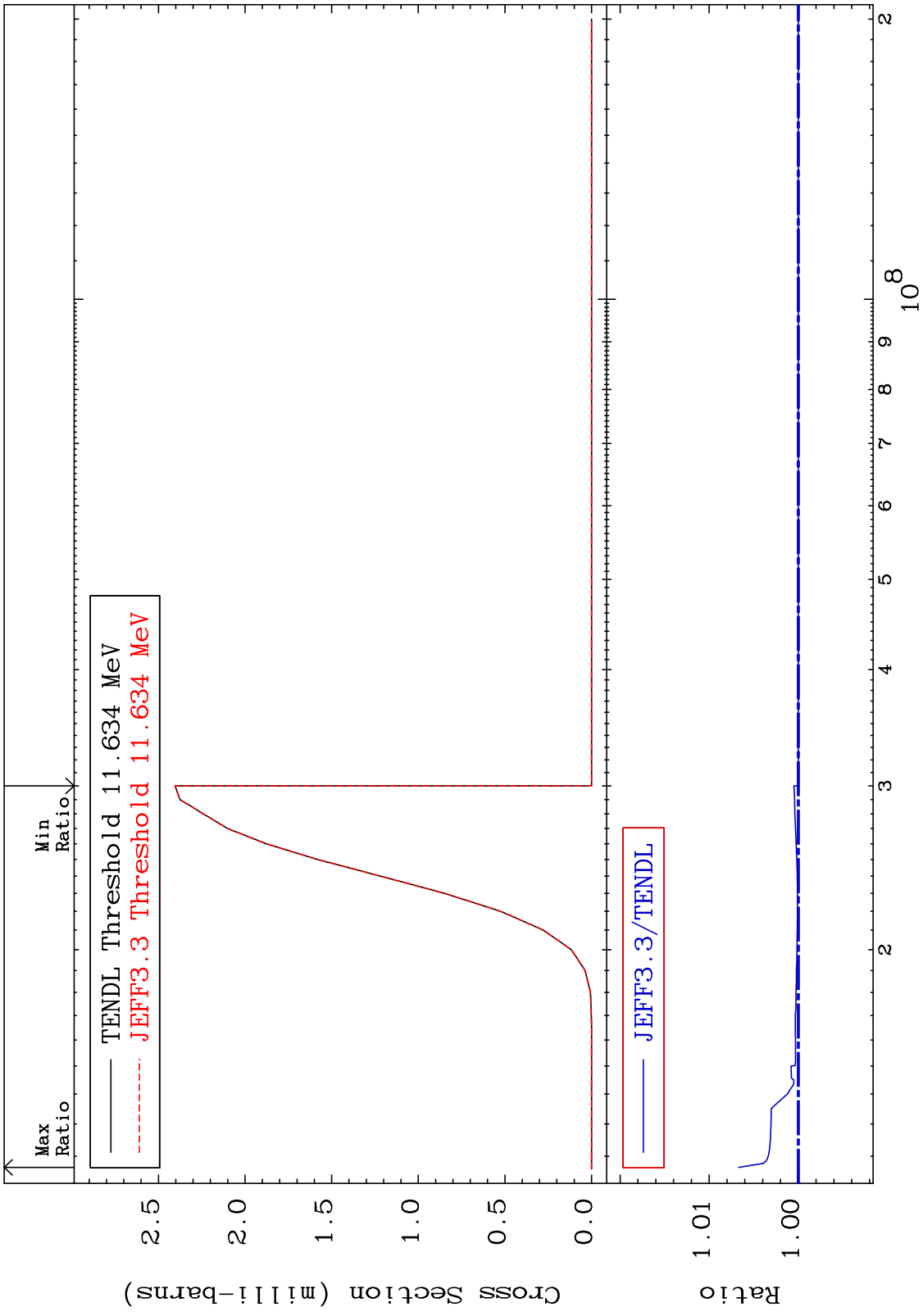


34

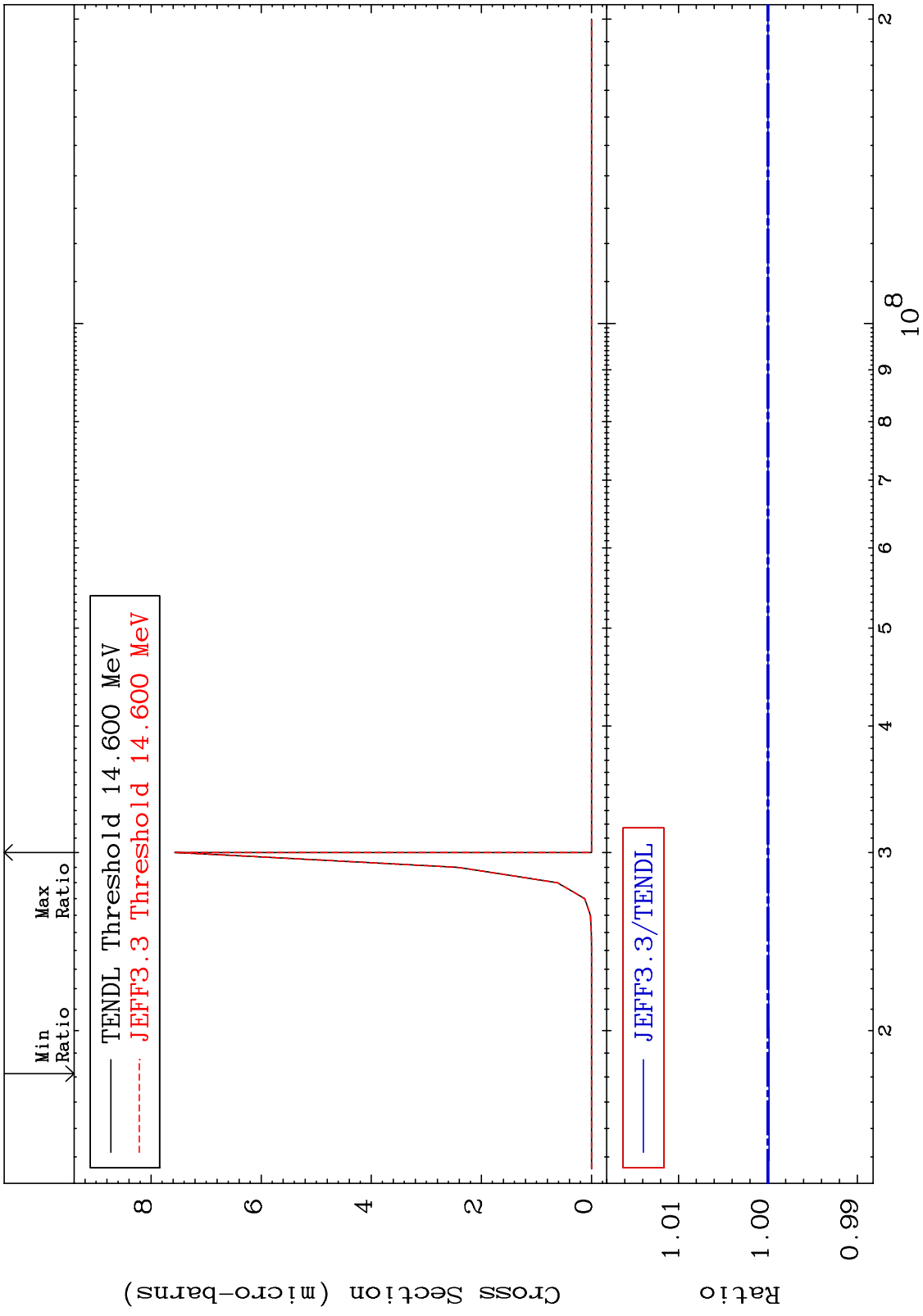
Incident Energy (eV)

50-Sn-124

MAT 5061 (n,t) 50-Sn-124  
 Cross Section To 0.670 %



MAT 5061 (n, He-3) 50-Sn-124  
 Cross Section -0.013 To 0.000 %



MAT 5061

(n,  $\alpha$ )

50-Sn-124

-6.734 To 9999. %

Cross Section

Max Ratio

Min Ratio

TENDL Threshold 1.5263 MeV  
JEFF3.3 Threshold 1.5263 MeV

Cross Section (milli-barns)

4

3

2

1

0

JEFF3.3/TENDL

$10^2$

$10^1$

$10^0$

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

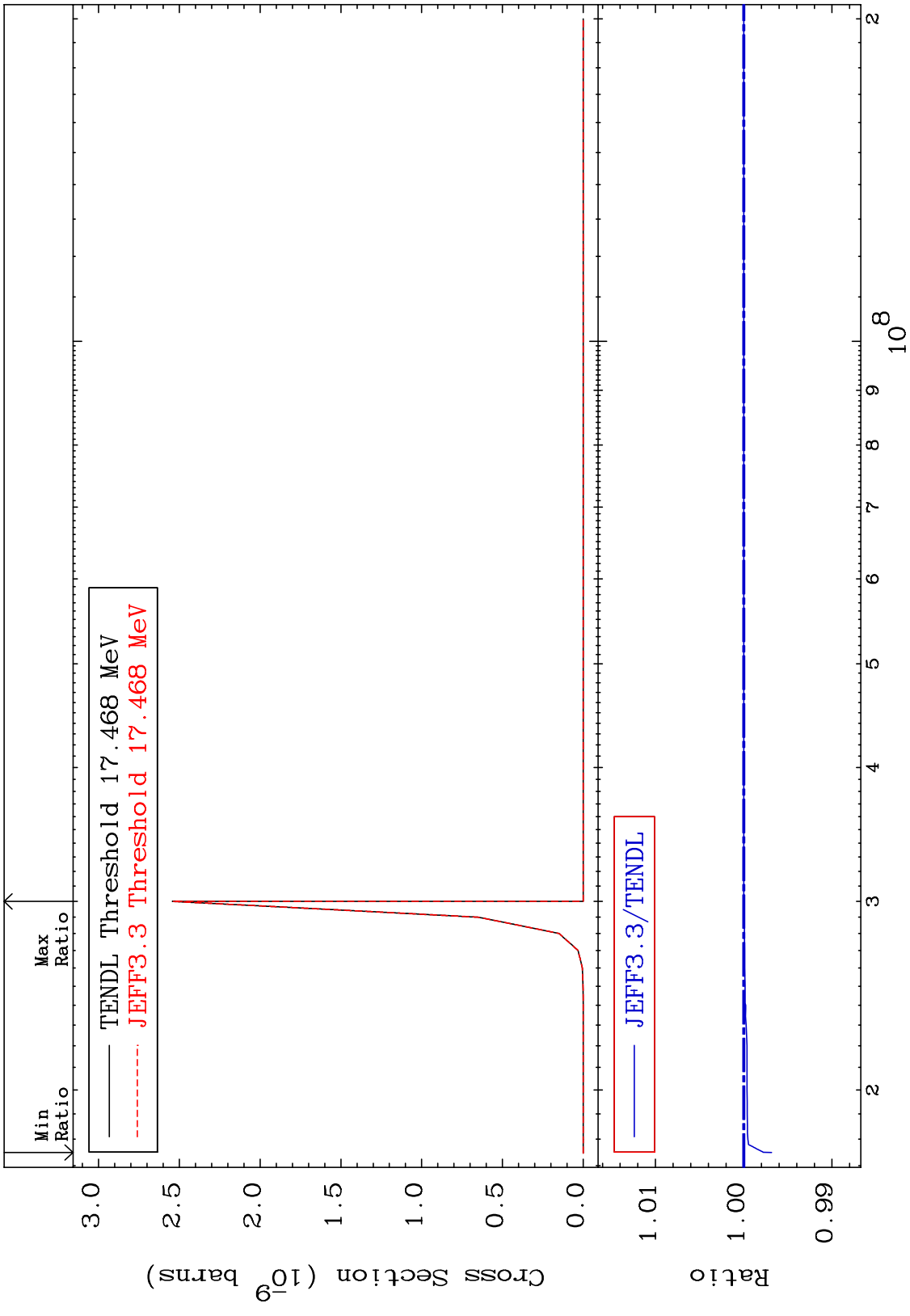
18

37

Incident Energy (eV)

50-Sn-124

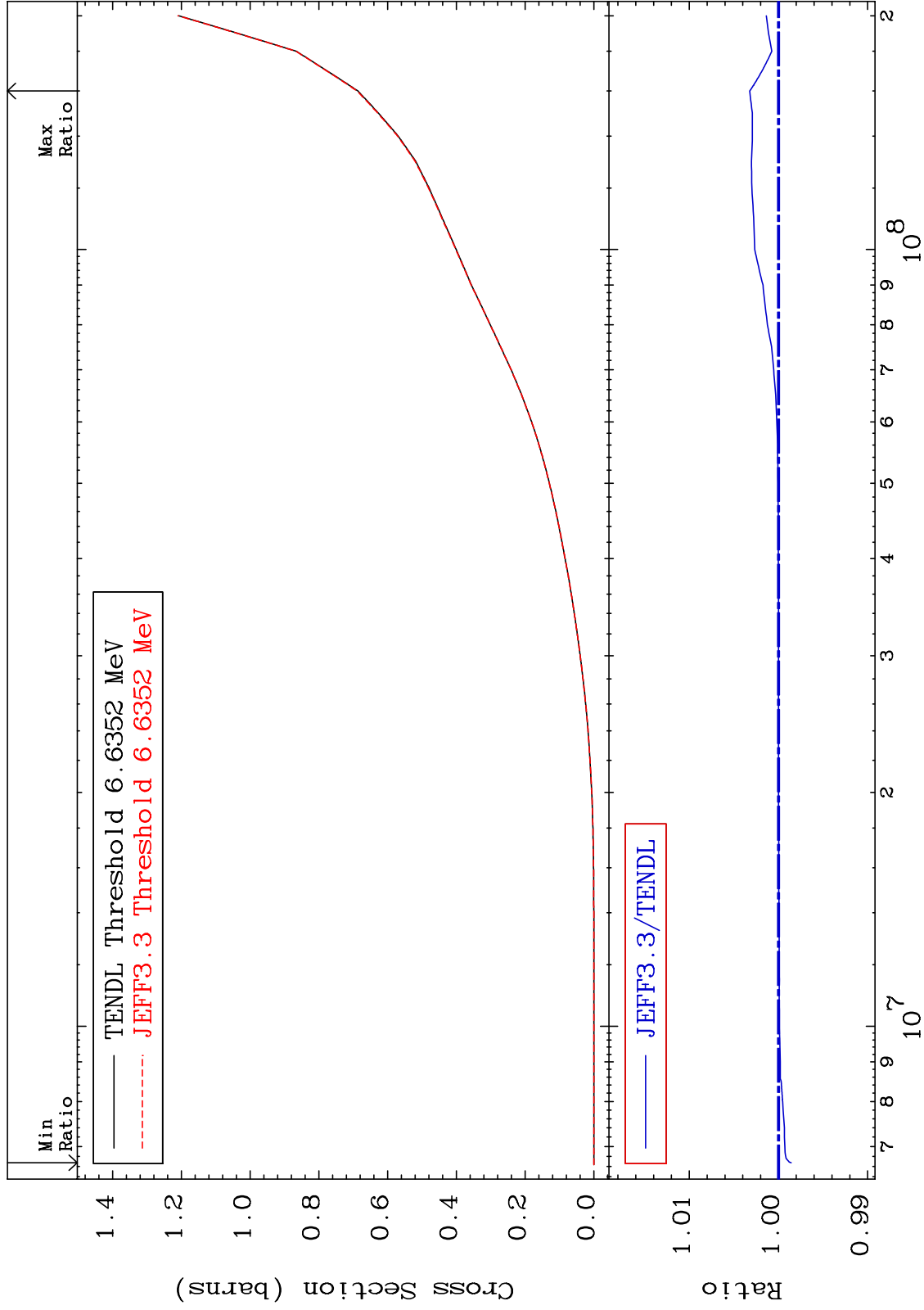
MAT 5061 (n,2p) 50-Sn-124  
 Cross Section -0.314 To 0.000 %



MAT 5061

Hydrogen Production  
Cross Section

50-Sn-124  
-0.143 To 0.322 %

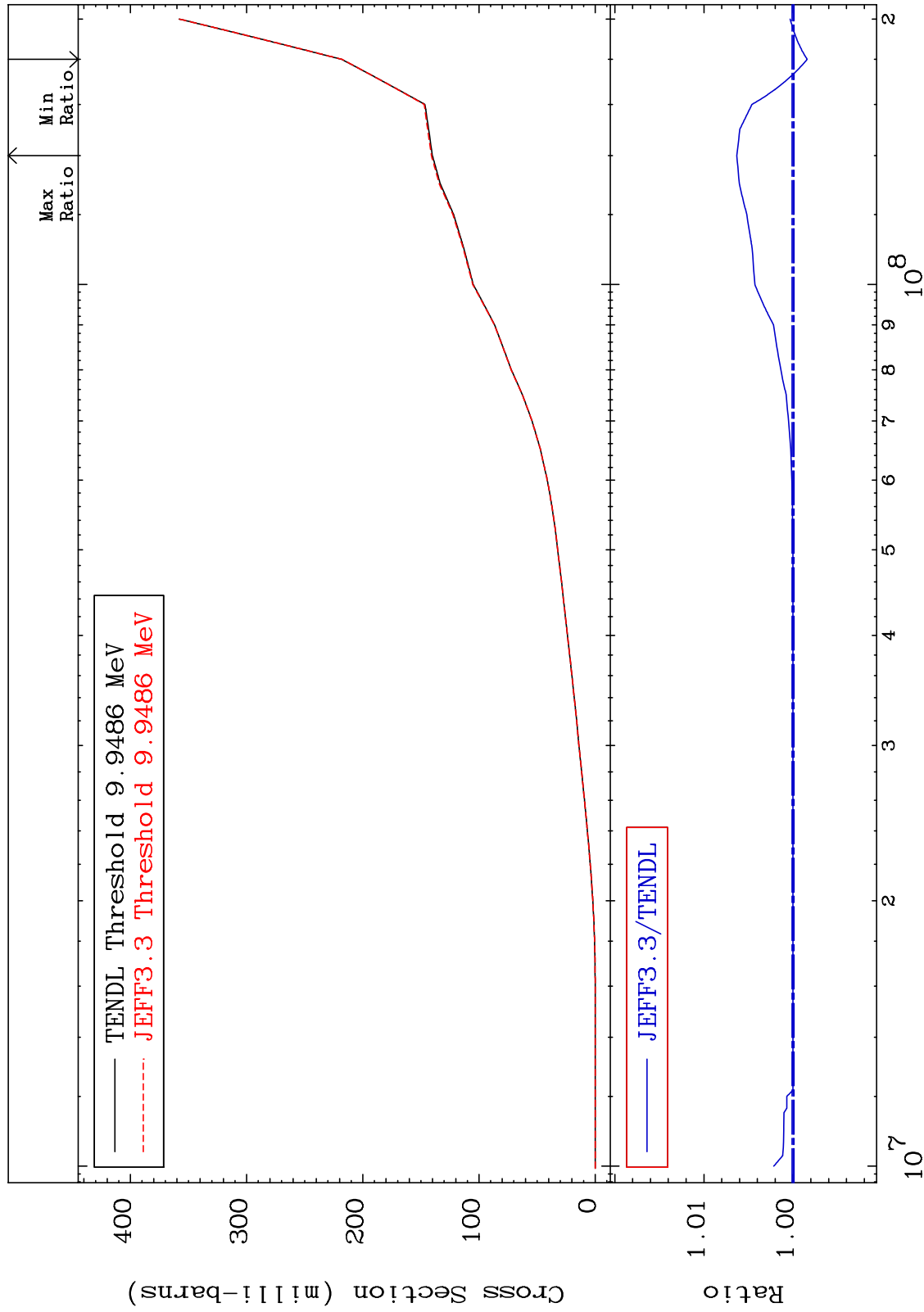




MAT 5061

Deuterium Production  
Cross Section

50-Sn-124  
-0.159 To 0.631 %



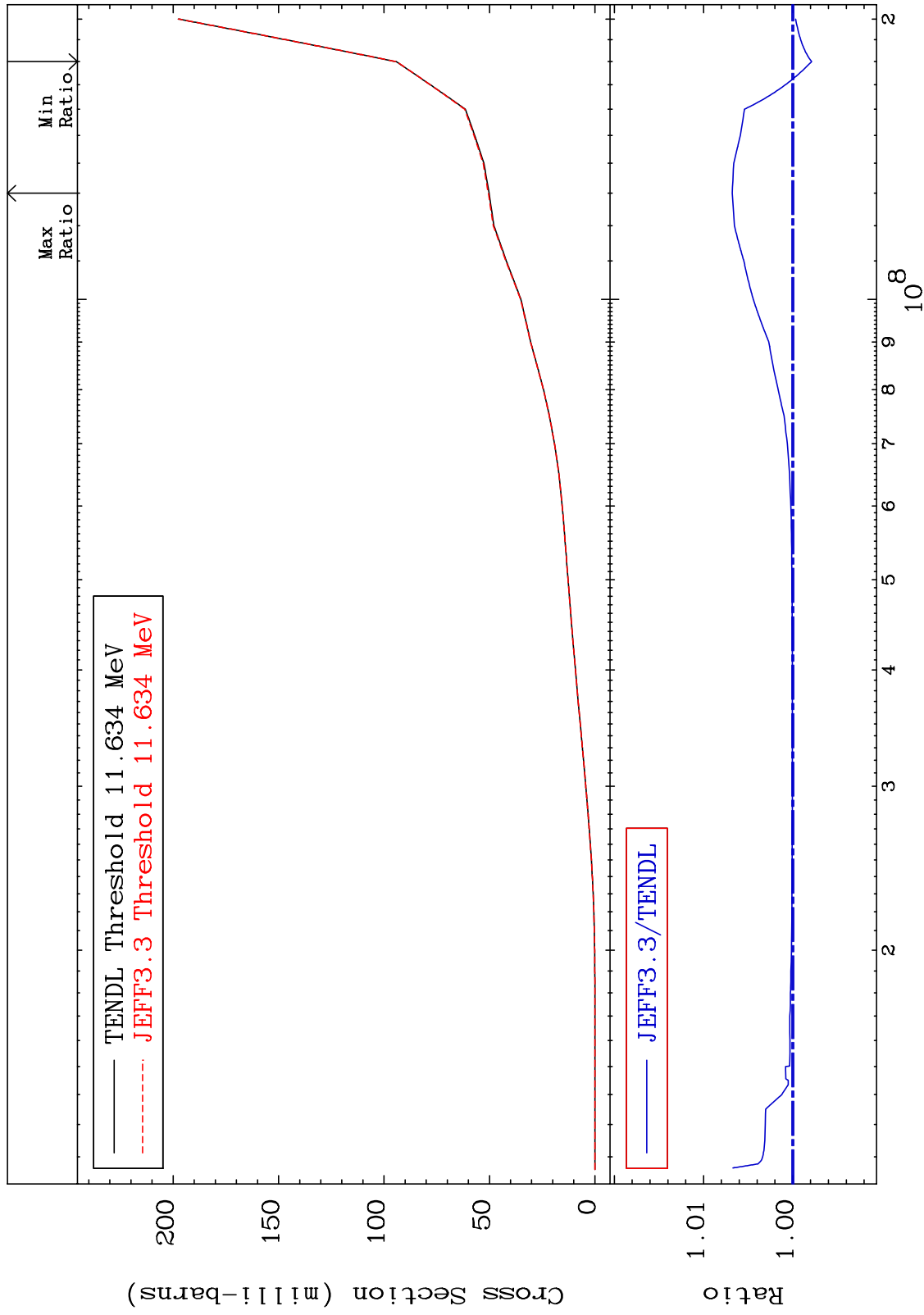
Incident Energy (eV)

50-Sn-124

MAT 5061

Tritium Production  
Cross Section

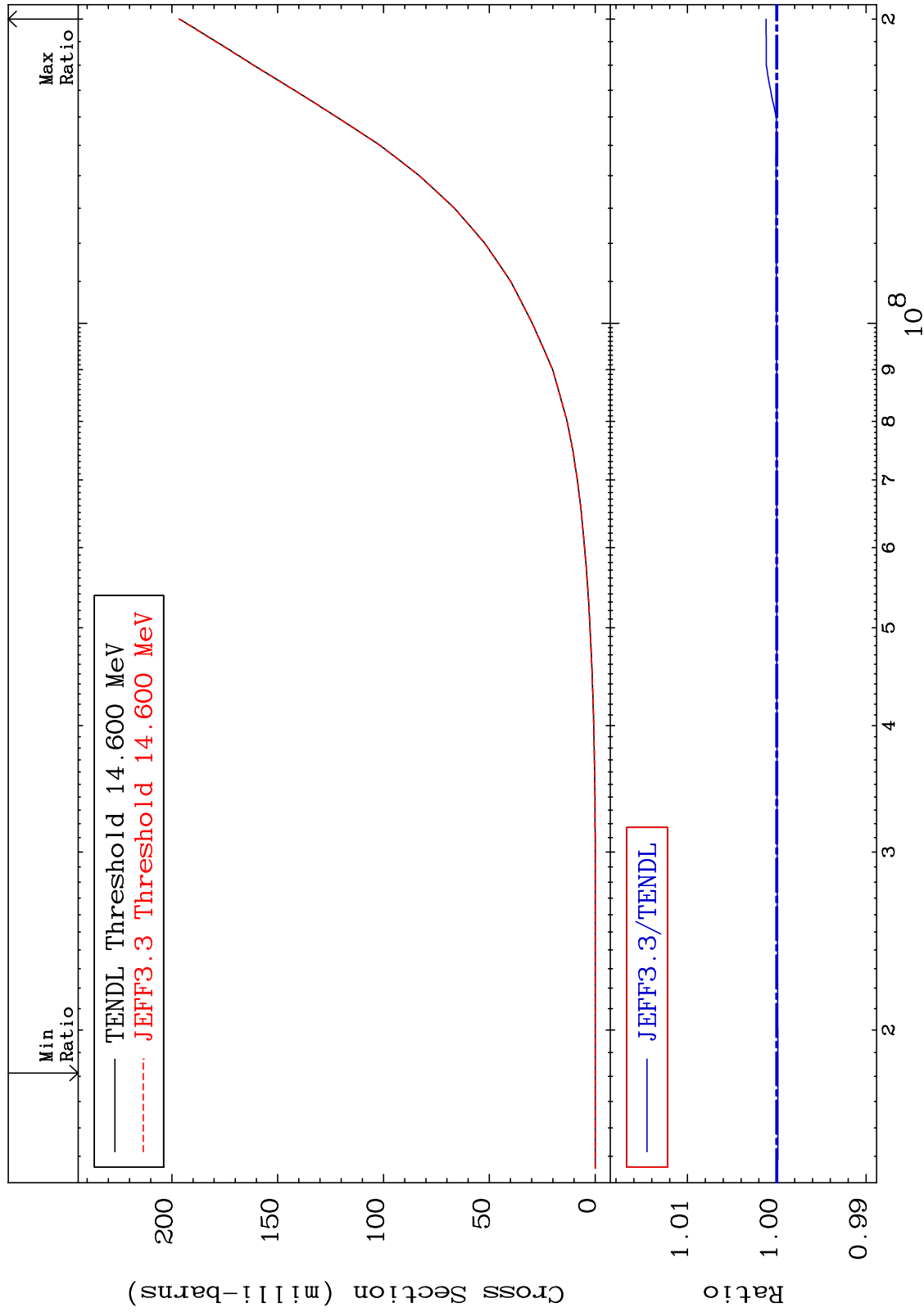
50-Sn-124  
-0.210 To 0.678 %



MAT 5061

He-3 Production  
Cross Section

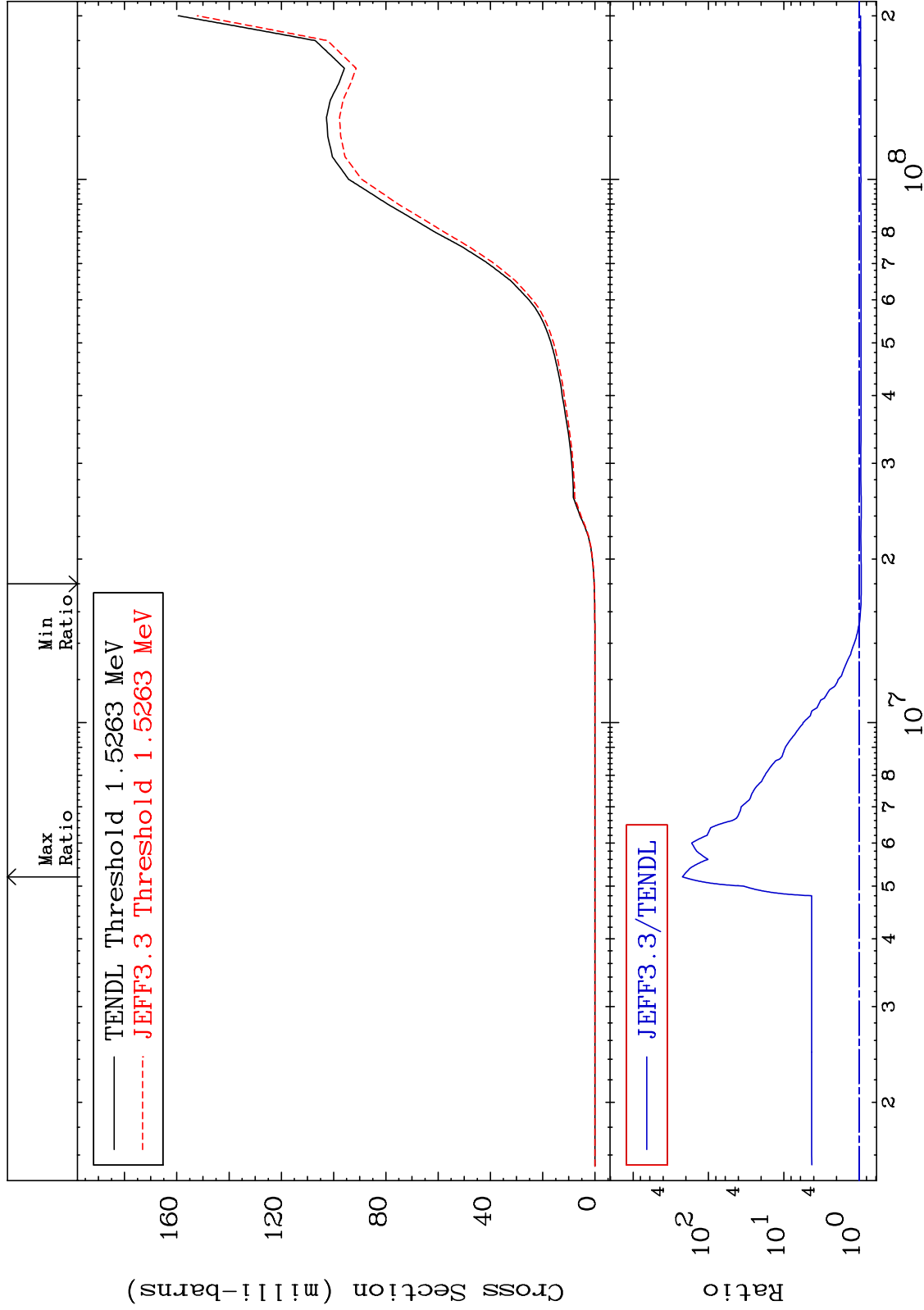
50-Sn-124  
-0.013 To 0.119 %



MAT 5061

He-4 Production  
Cross Section

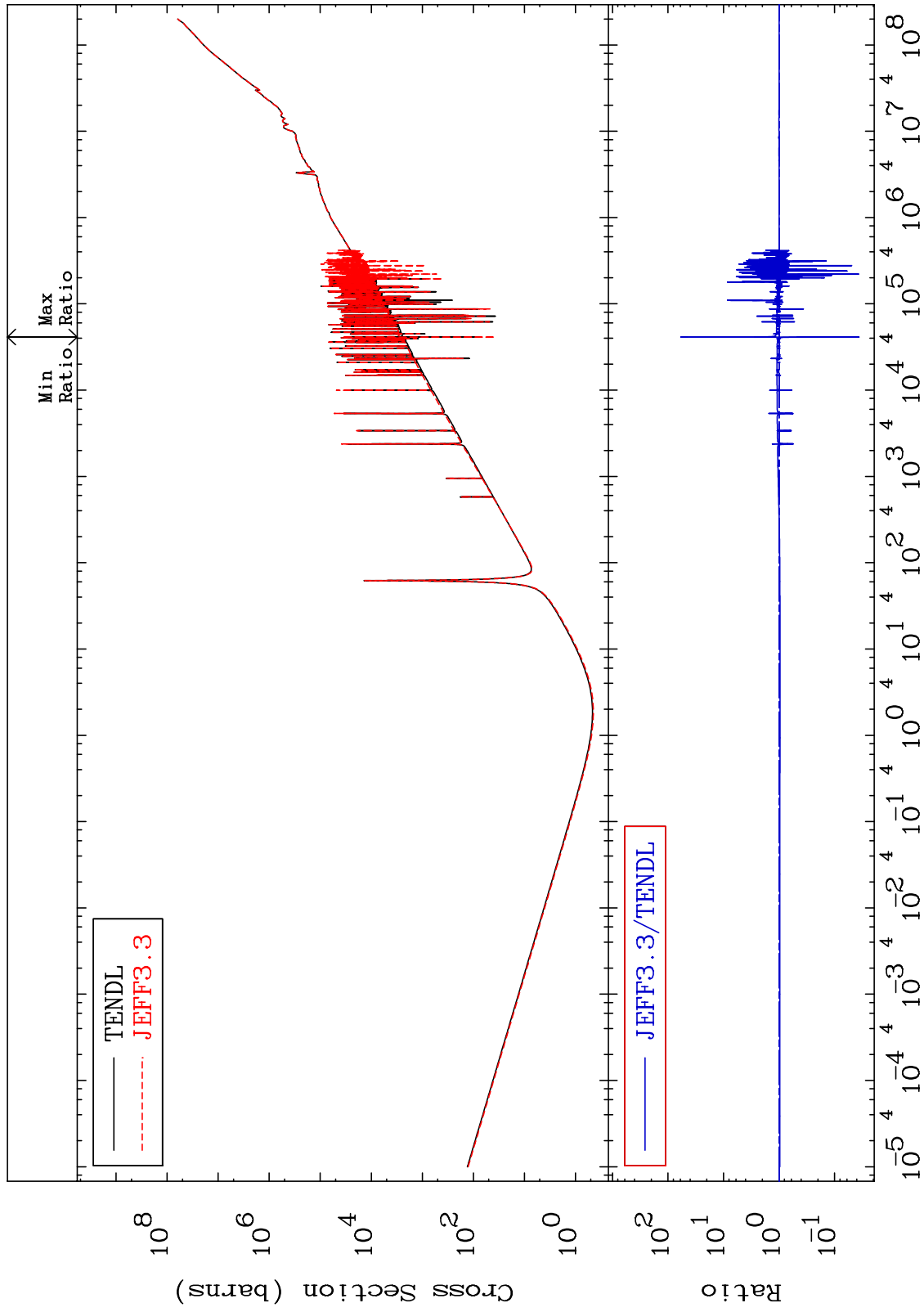
50-Sn-124  
-6.335 To 9999. %



MAT 5061

Kerma total (eV-barns)  
Cross Section

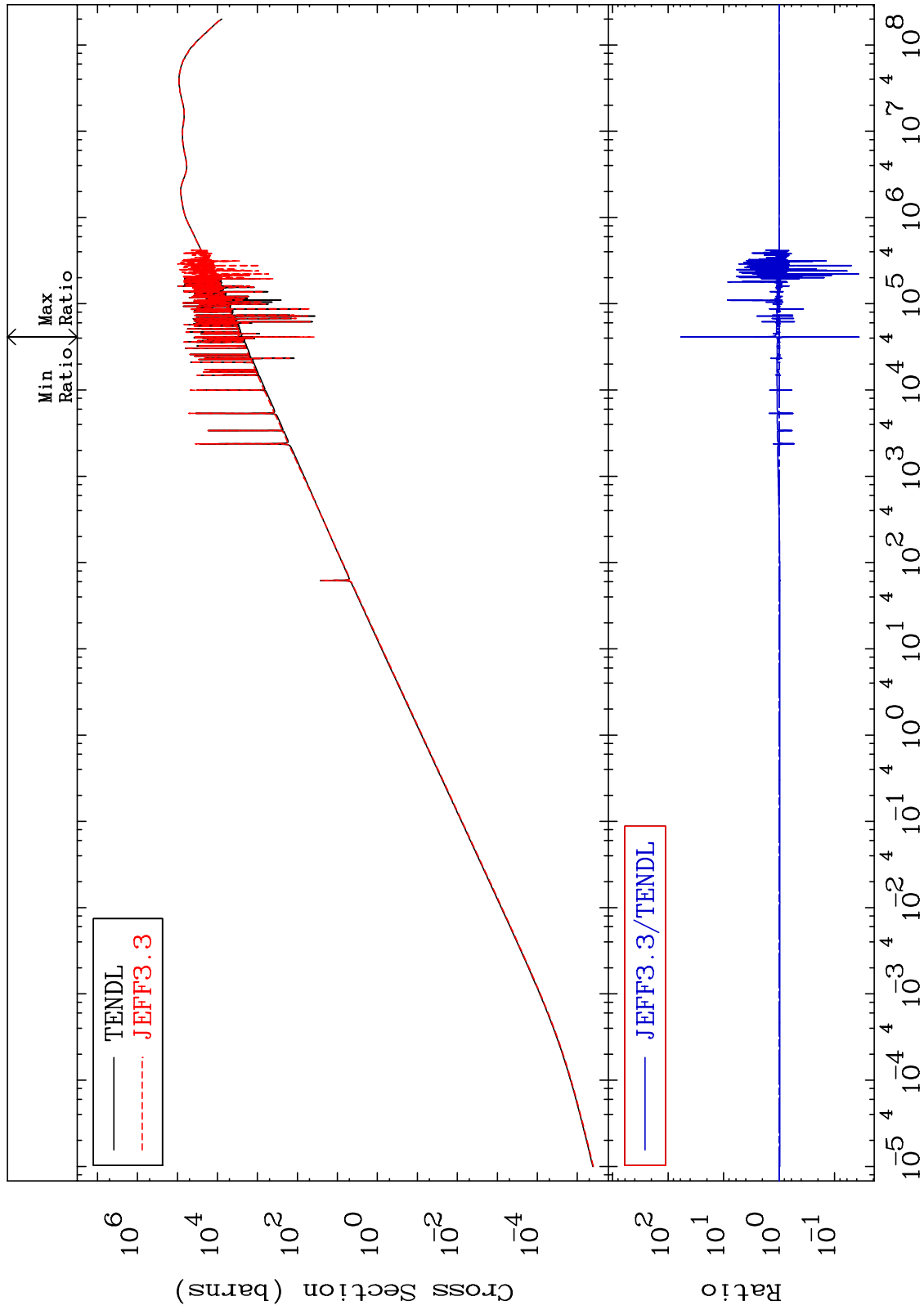
50-Sn-124  
-96.36 To 5826. %



MAT 5061

Kerma elastic  
Cross Section

50-Sn-124  
-96.37 To 5843. %



45

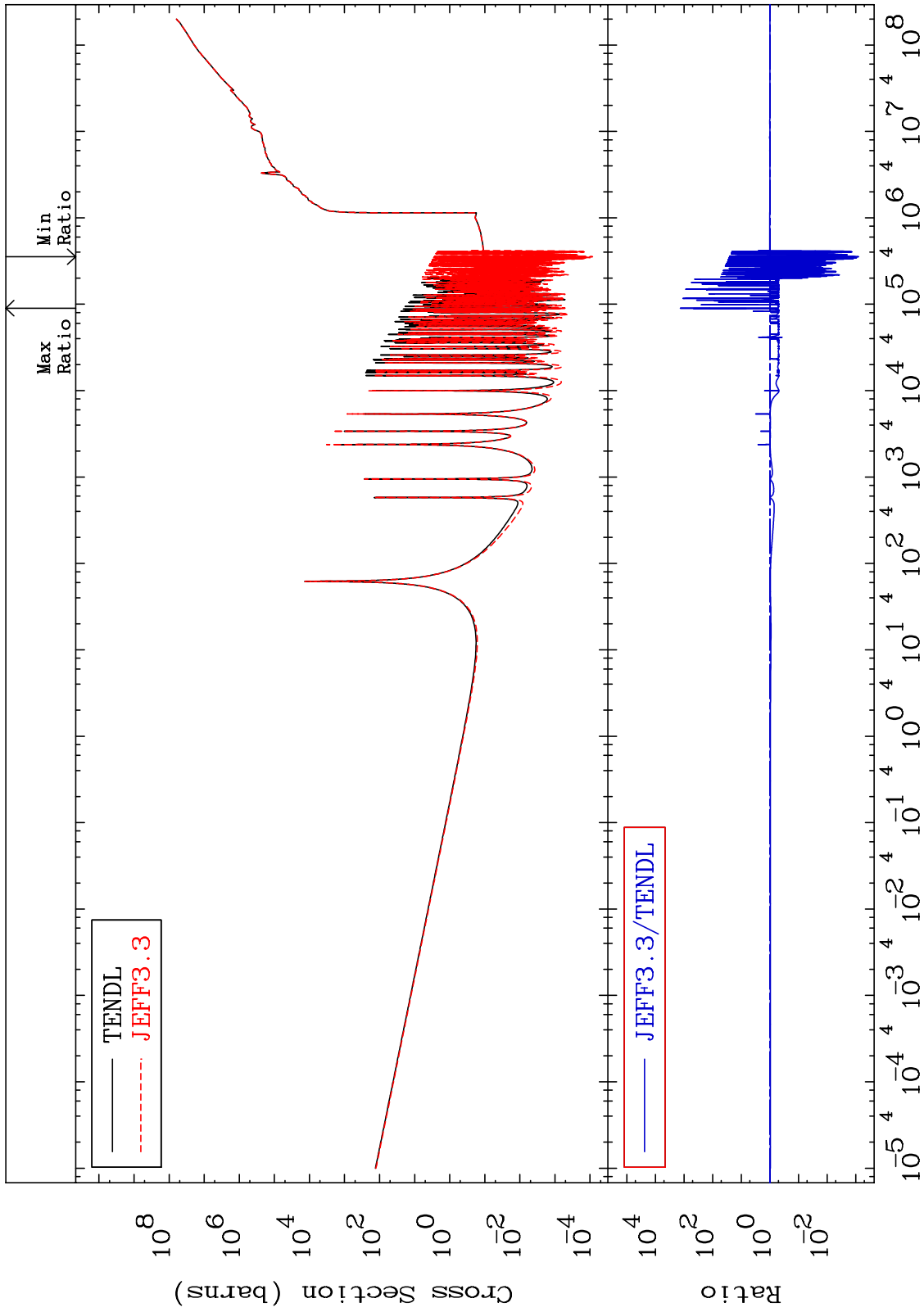
Incident Energy (eV)

50-Sn-124

MAT 5061

Kerma non-elastic (all but mt2)  
Cross Section

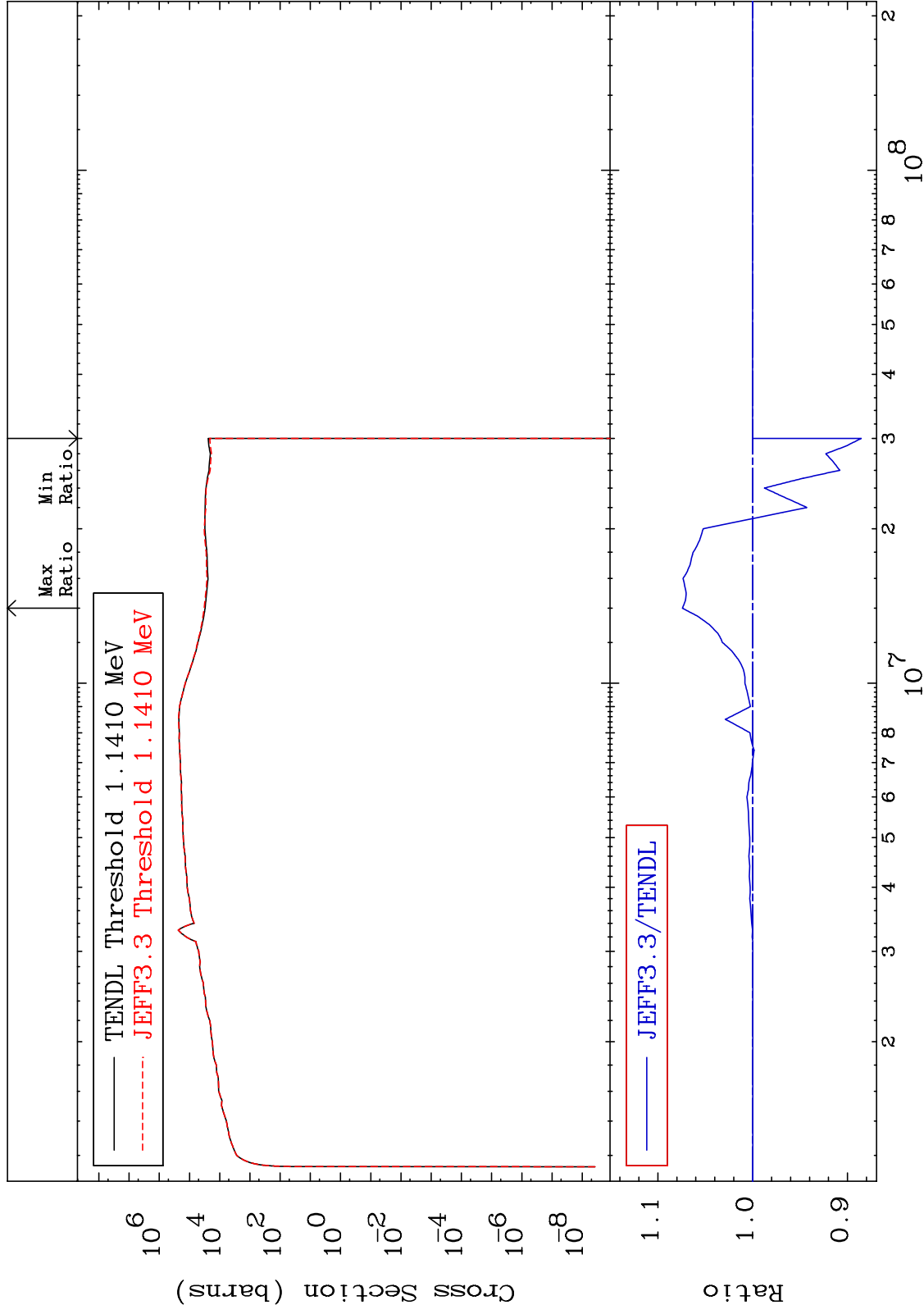
50-Sn-124  
-99.92 To 9999. %



MAT 5061

Kerma inelastic (mt51-91)  
Cross Section

50-Sn-124  
-11.46 To 7.406 %

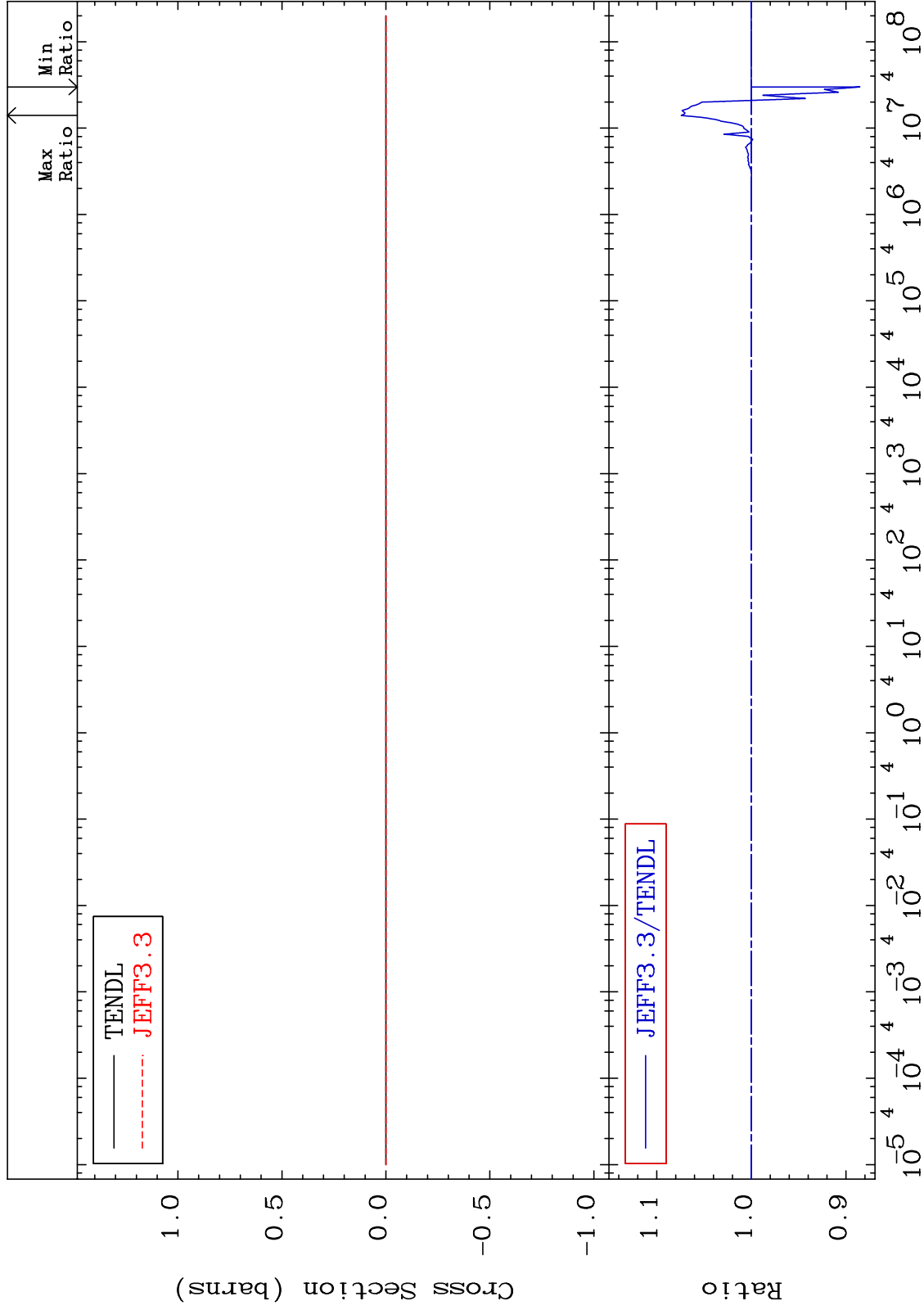




MAT 5061

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

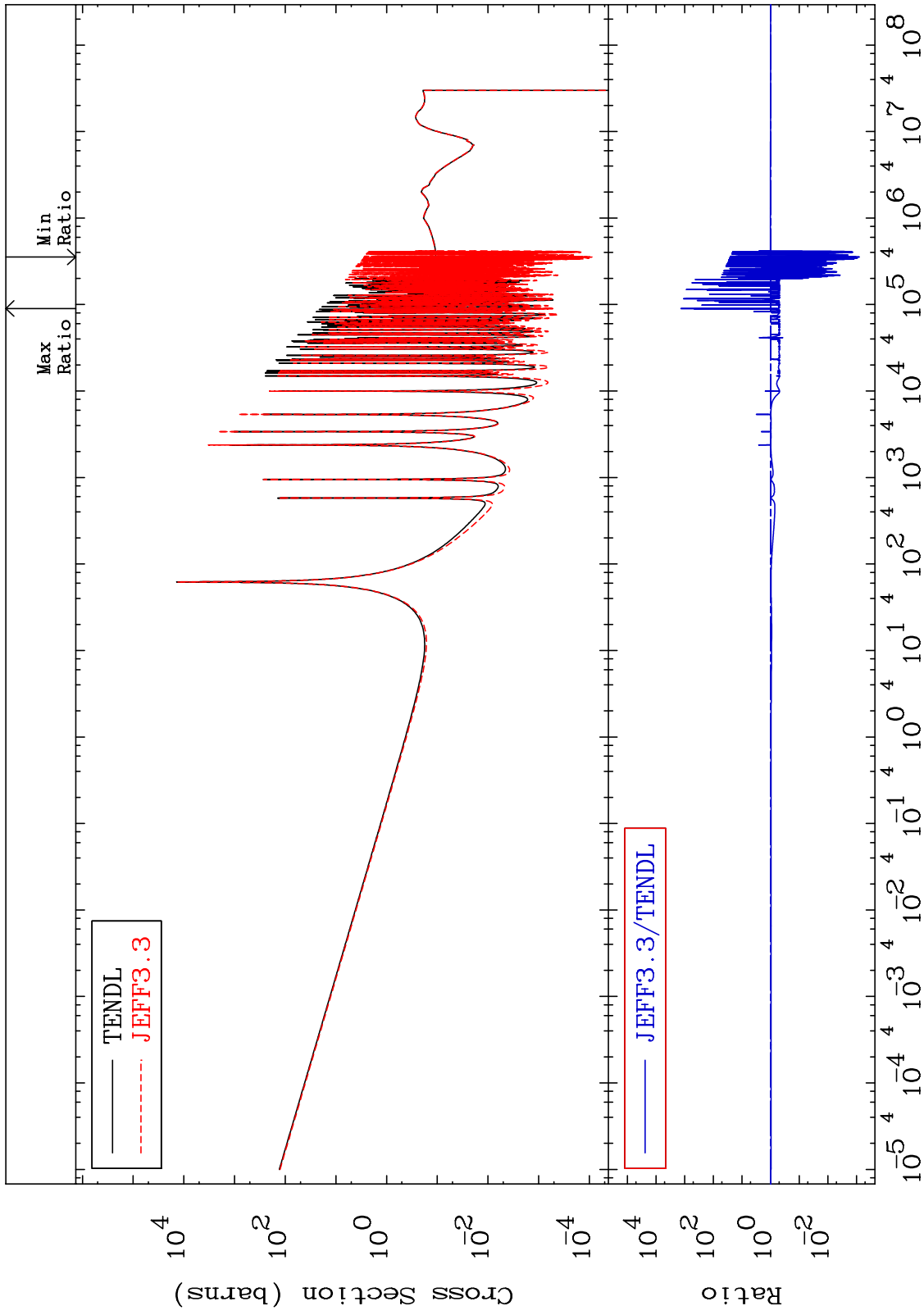
50-Sn-124  
-11.46 To 7.406 %



MAT 5061

Kerma capture (mt102)  
Cross Section

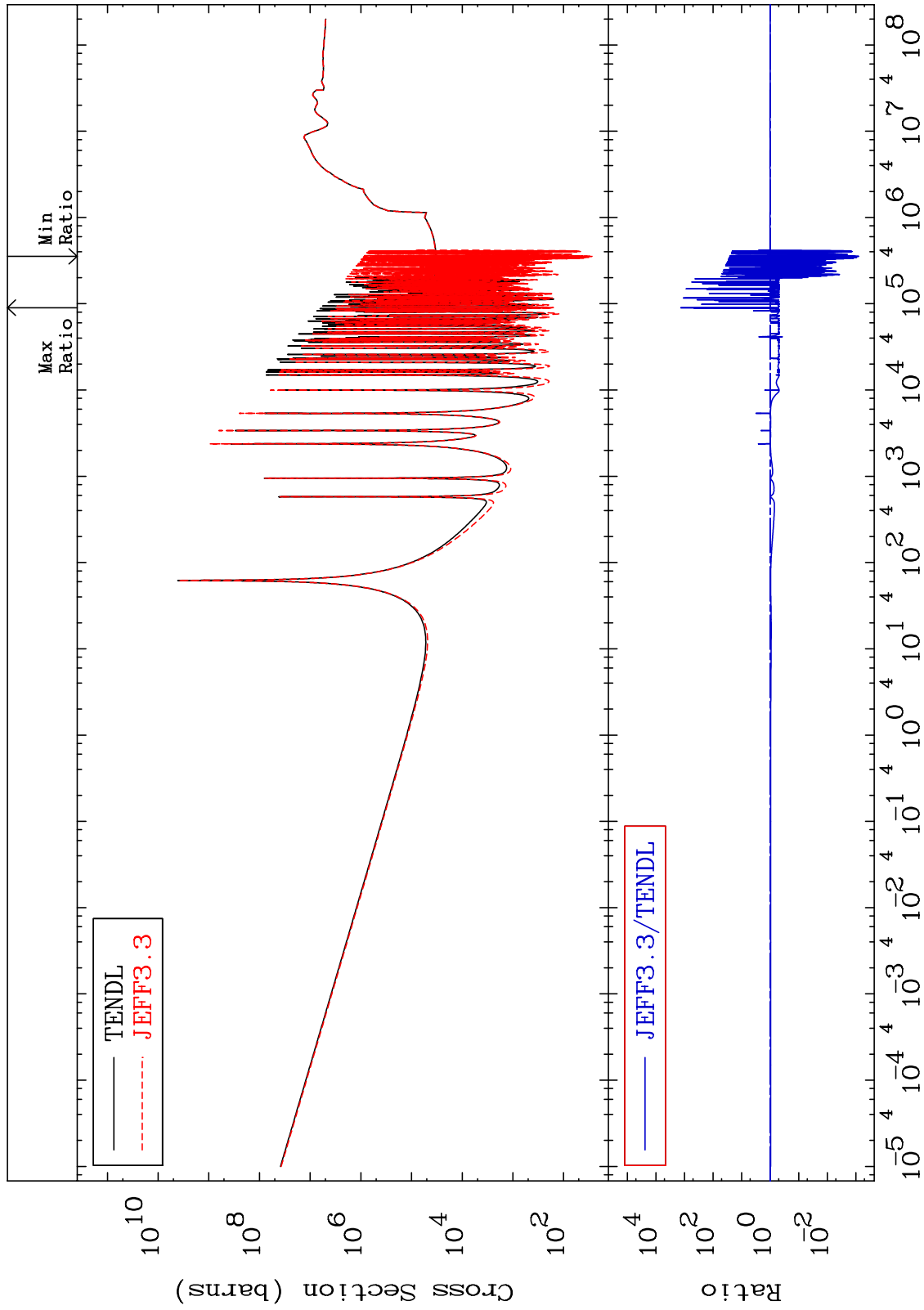
50-Sn-124  
-99.92 To 9999. %



MAT 5061

Total photon (eV-barns)  
Cross Section

50-Sn-124  
-99.92 To 9999. %



50

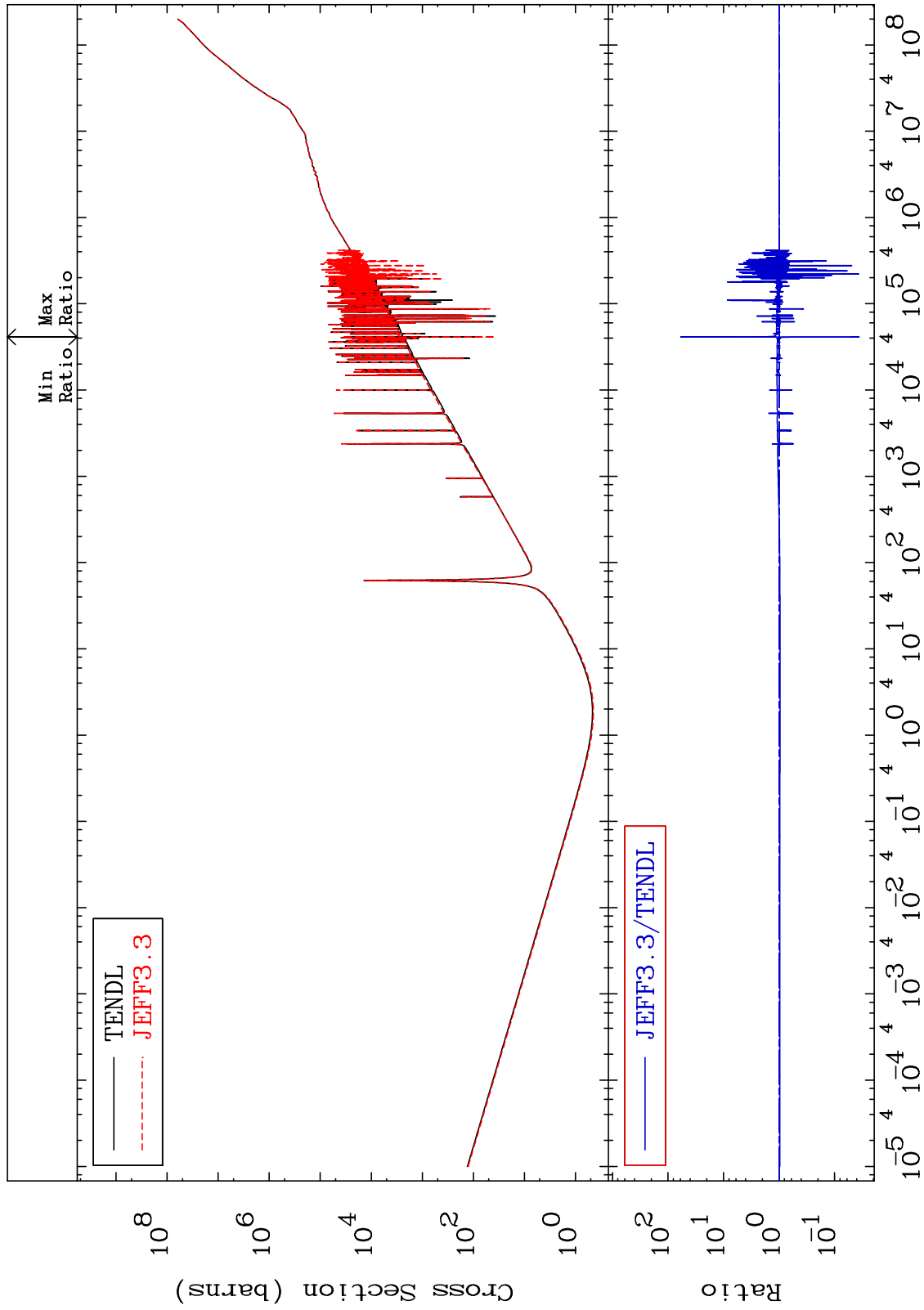
Incident Energy (eV)

50-Sn-124

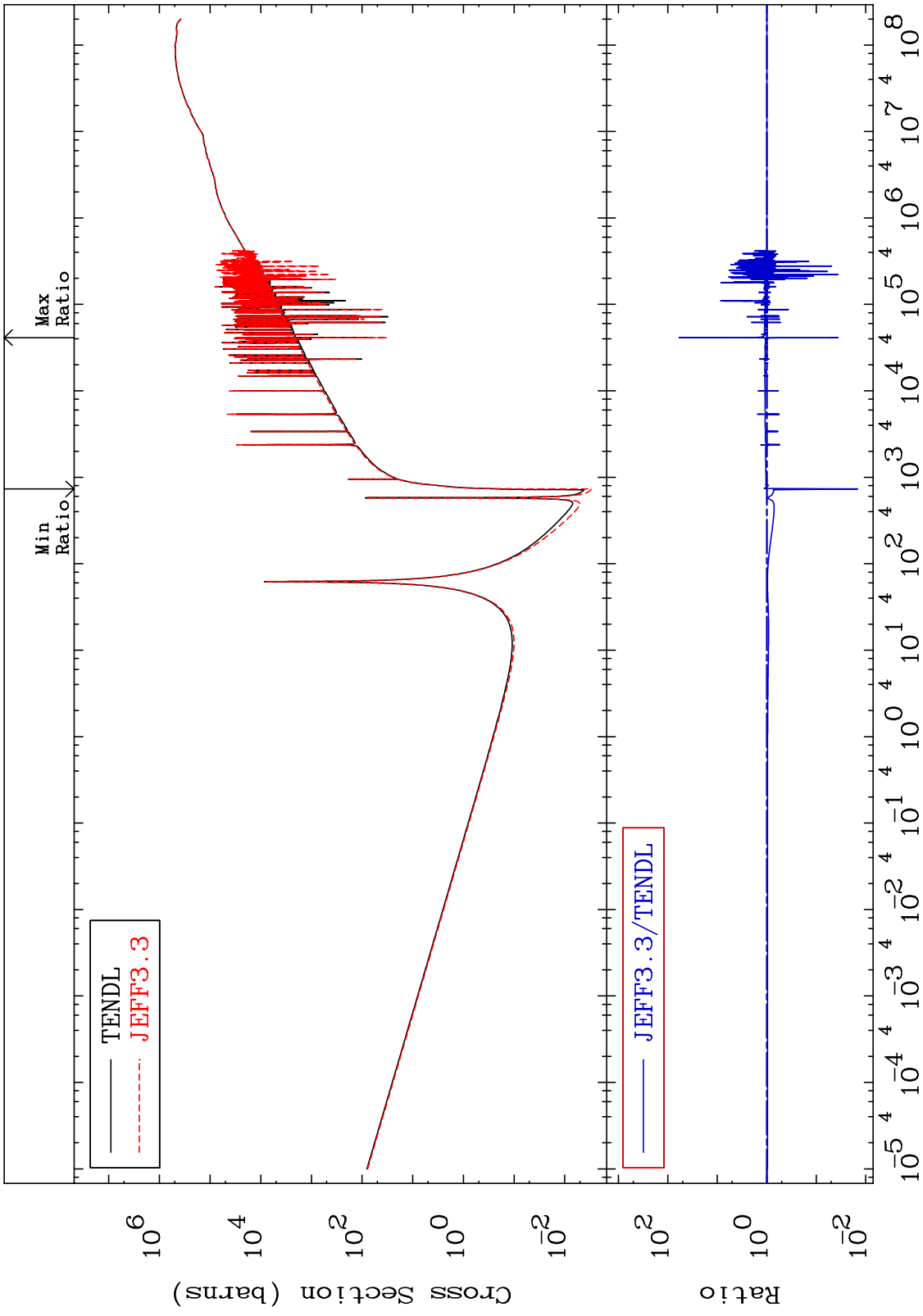
MAT 5061

Total kinematic kerma (high limit)  
Cross Section

50-Sn-124  
-96.36 To 5826. %



MAT 5061      Dpa total (eV-barns)      50-Sn-124  
 Cross Section      -98.55 To 5831. %

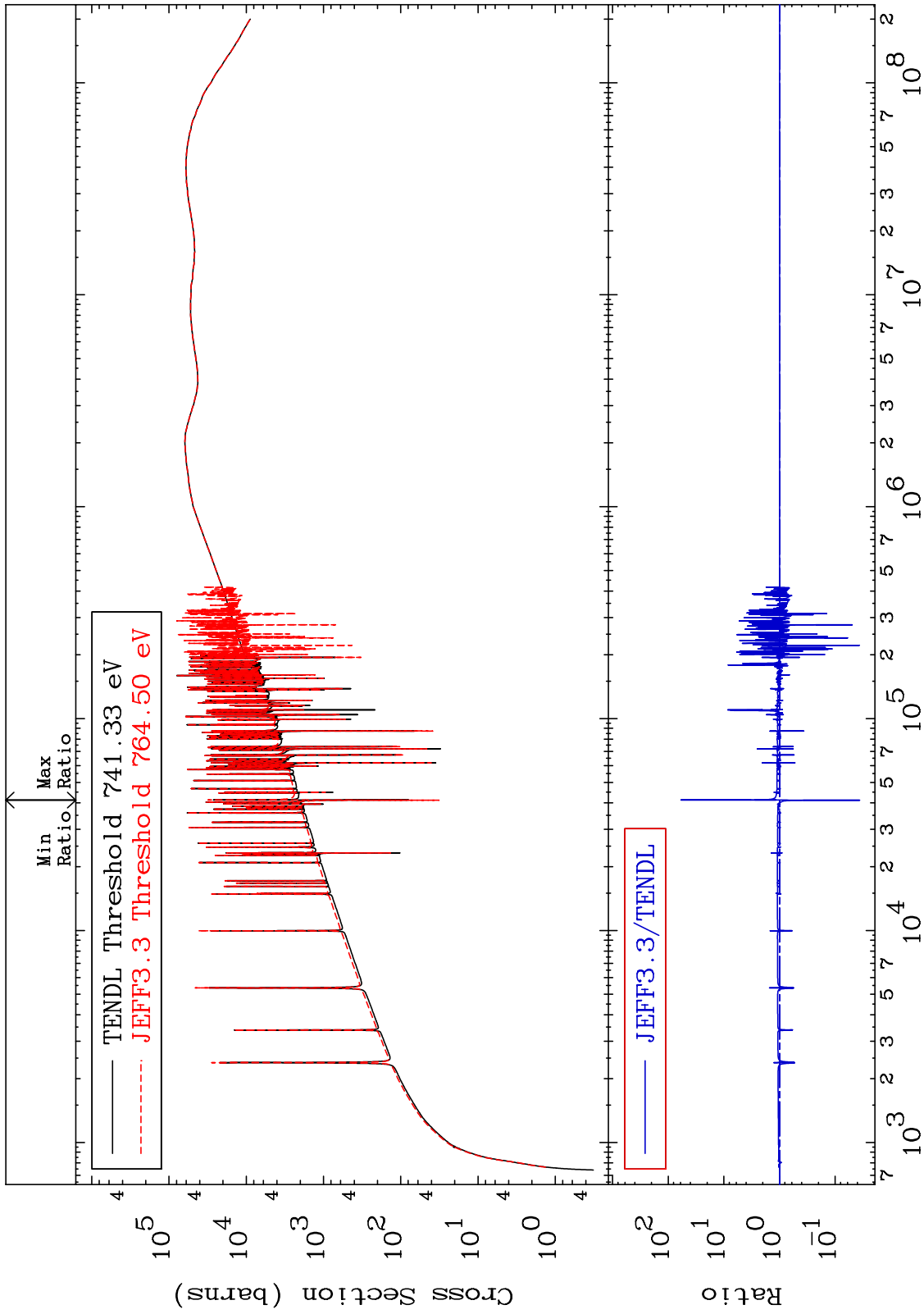


52      Incident Energy (eV)      50-Sn-124

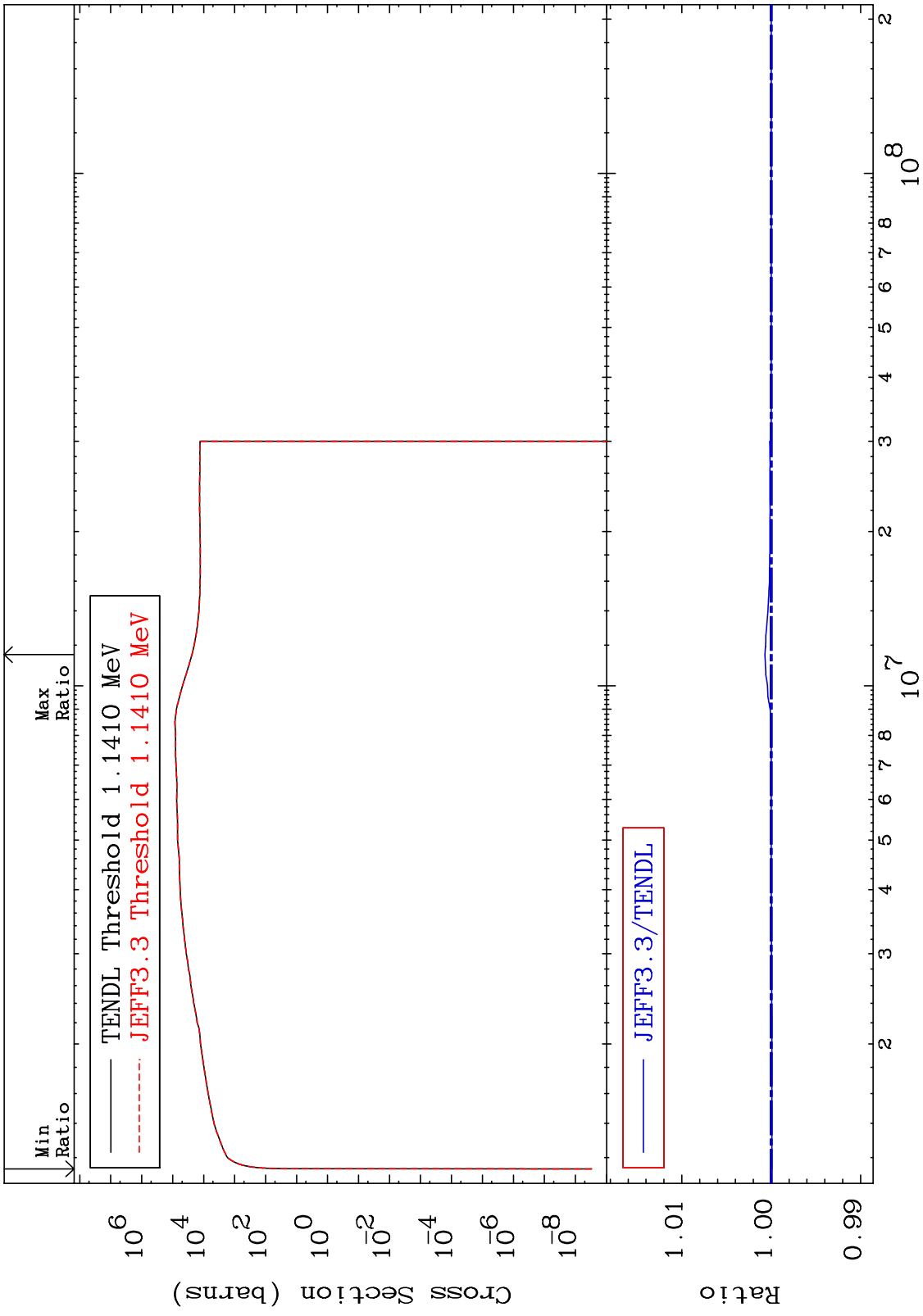
MAT 5061

Dpa elastic (mt2)  
Cross Section

50-Sn-124  
-96.37 To 5843. %



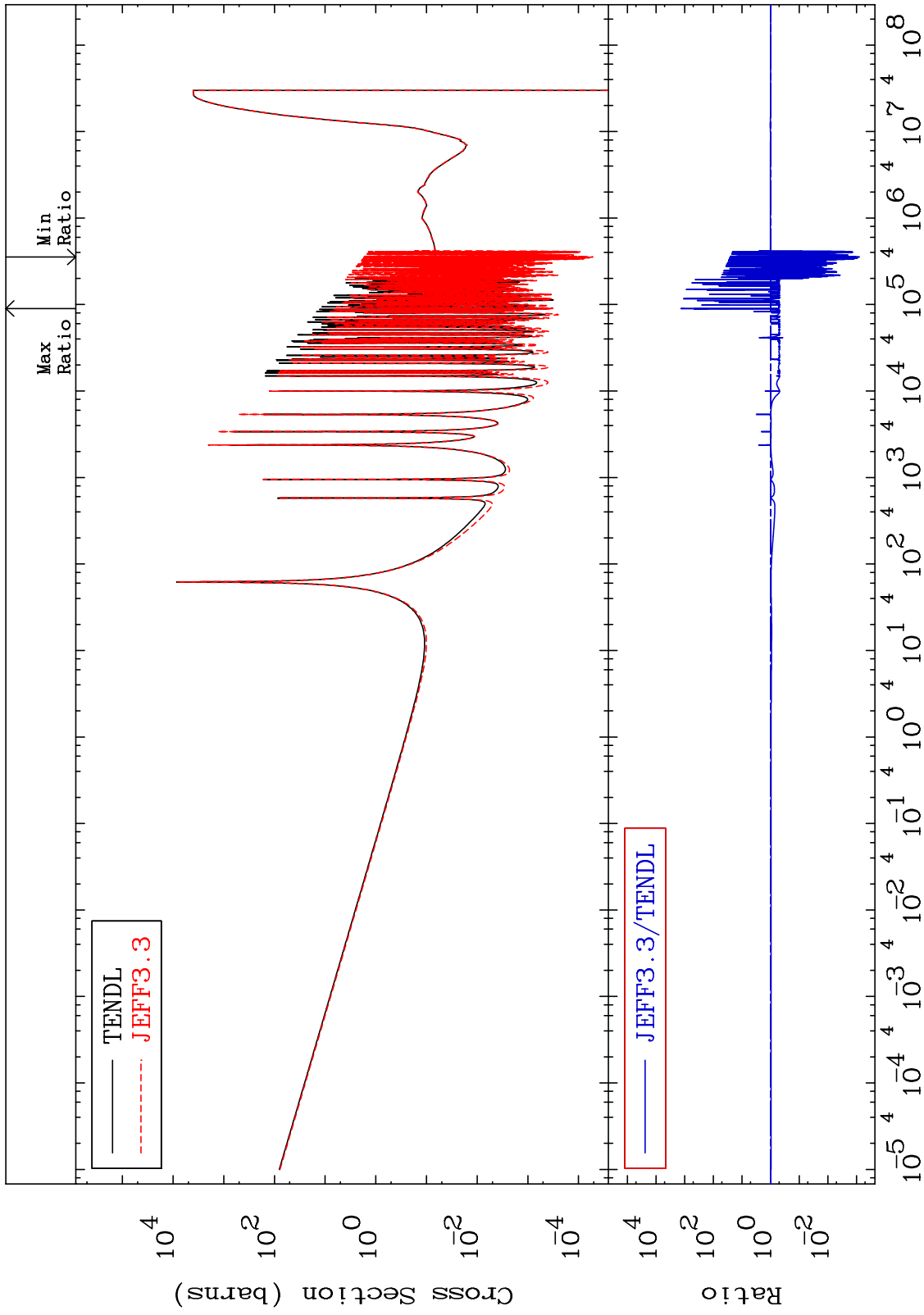
MAT 5061      Dpa inelastic (mt51-91)      50-Sn-124  
 Cross Section      -0.008 To 0.070 %



MAT 5061

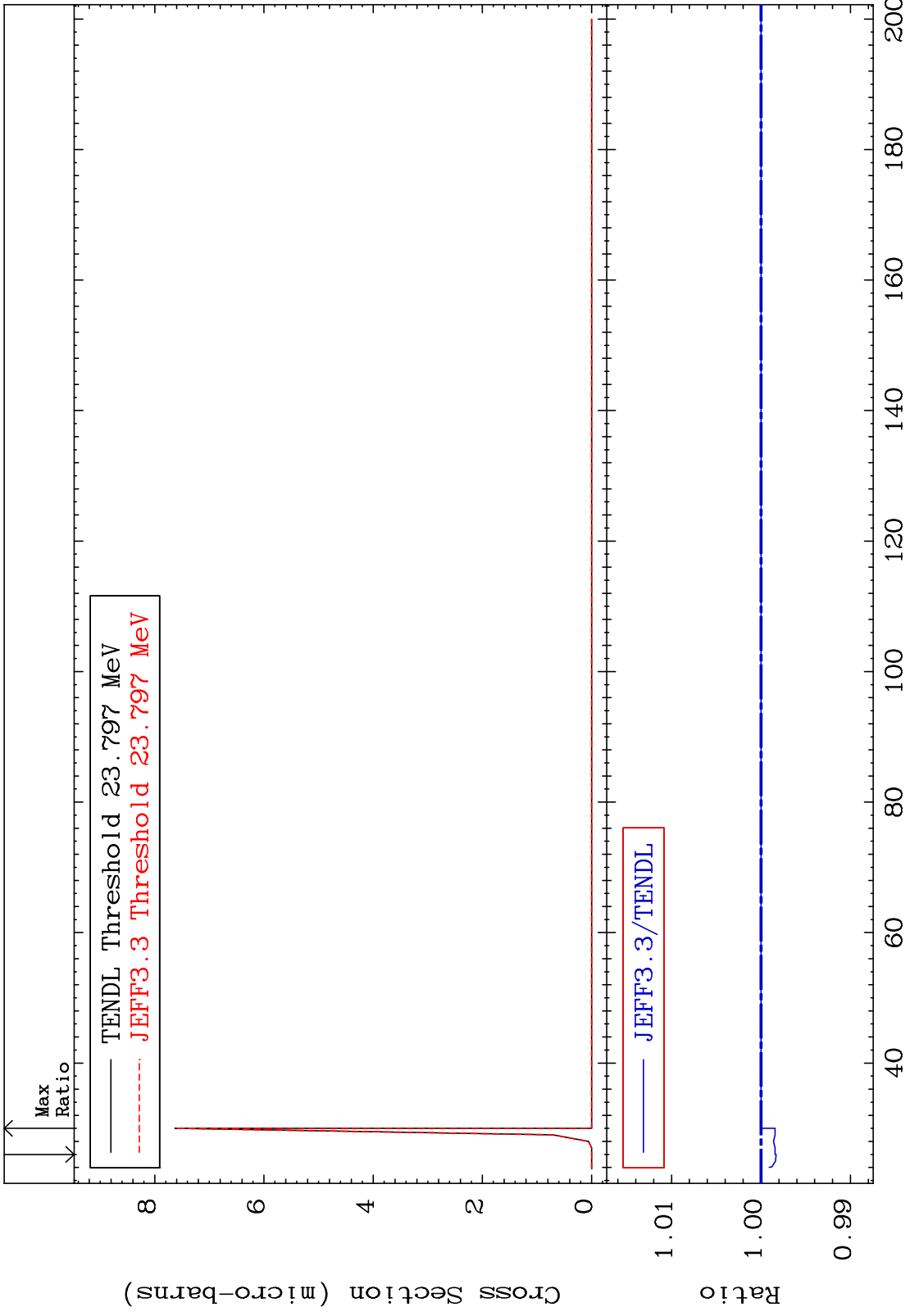
Dpa disappearance (mt102 -120)  
Cross Section

50-Sn-124  
-99.92 To 9999. %





MAT 5061 (n,2n) d:49-In-121g 50-Sn-124  
 Radionuclide Production Cross Section -0.168 To 0.000 %

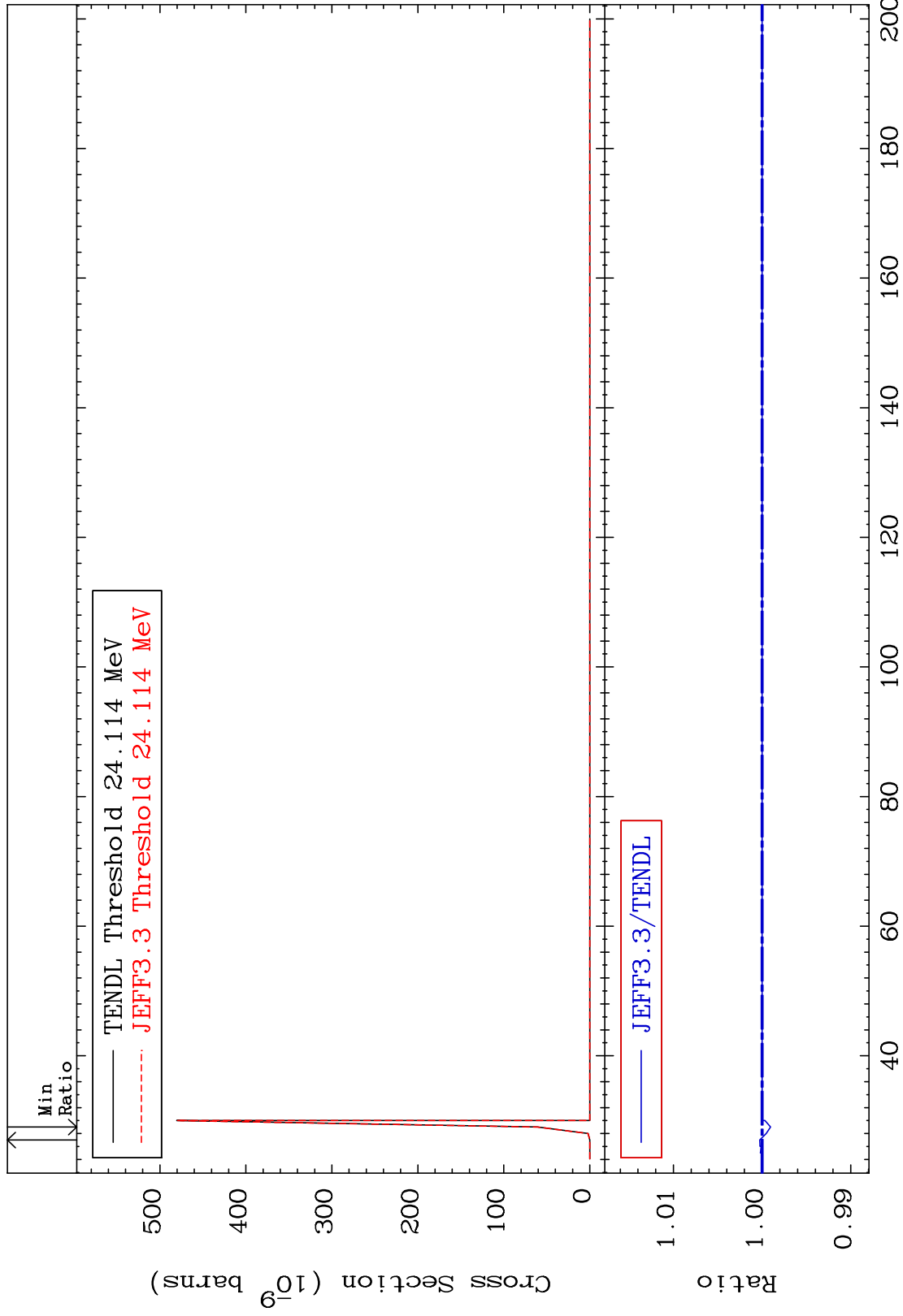


MAT 5061

(n,2n) d:49-In-121m1

50-Sn-124

Radionuclide Production Cross Section -0.095 To 0.026 %

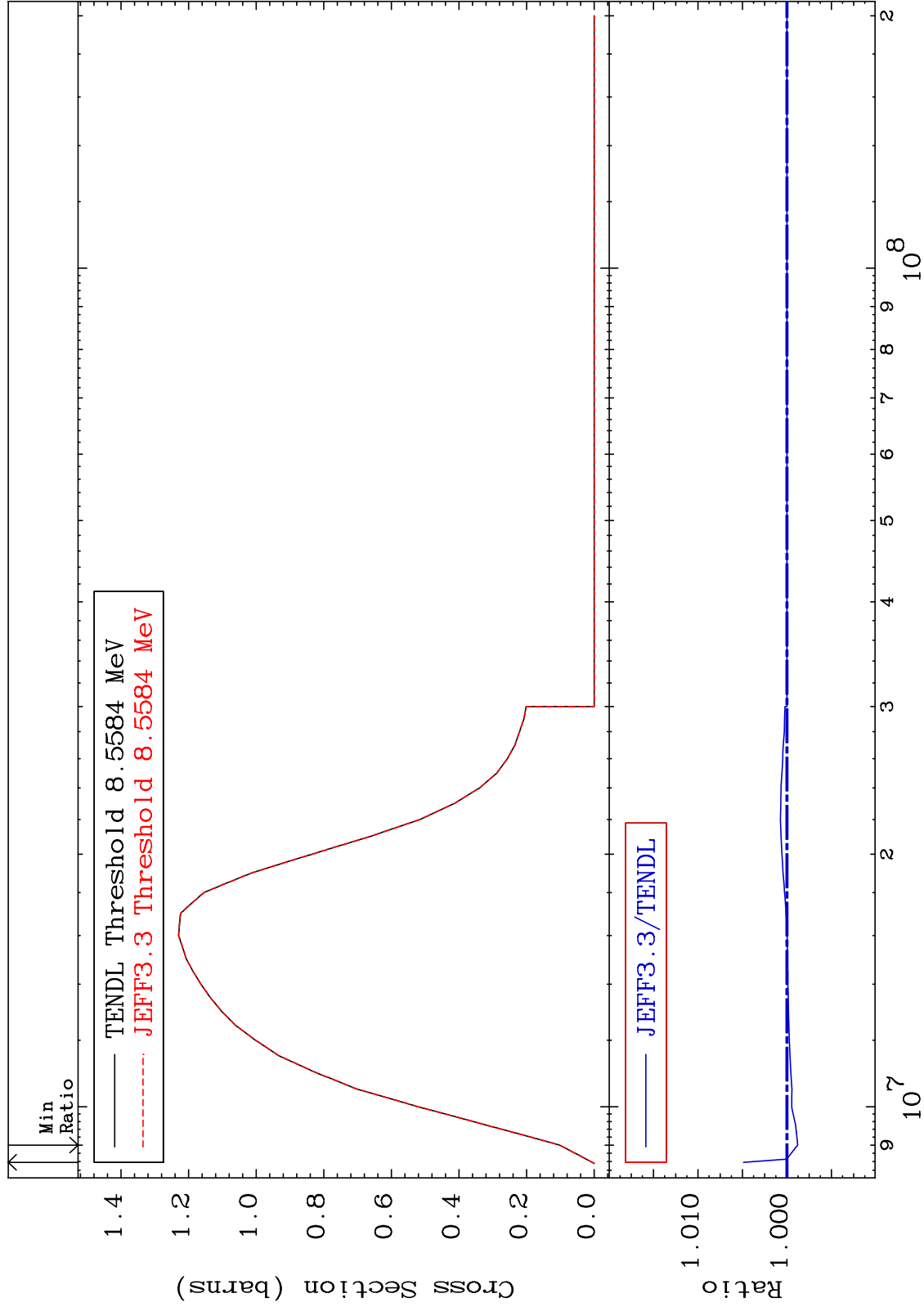


MAT 5061

(n,2n):50-Sn-123g

50-Sn-124

Radionuclide Production Cross Section -0.121 To 0.487 %



58

Incident Energy (eV)

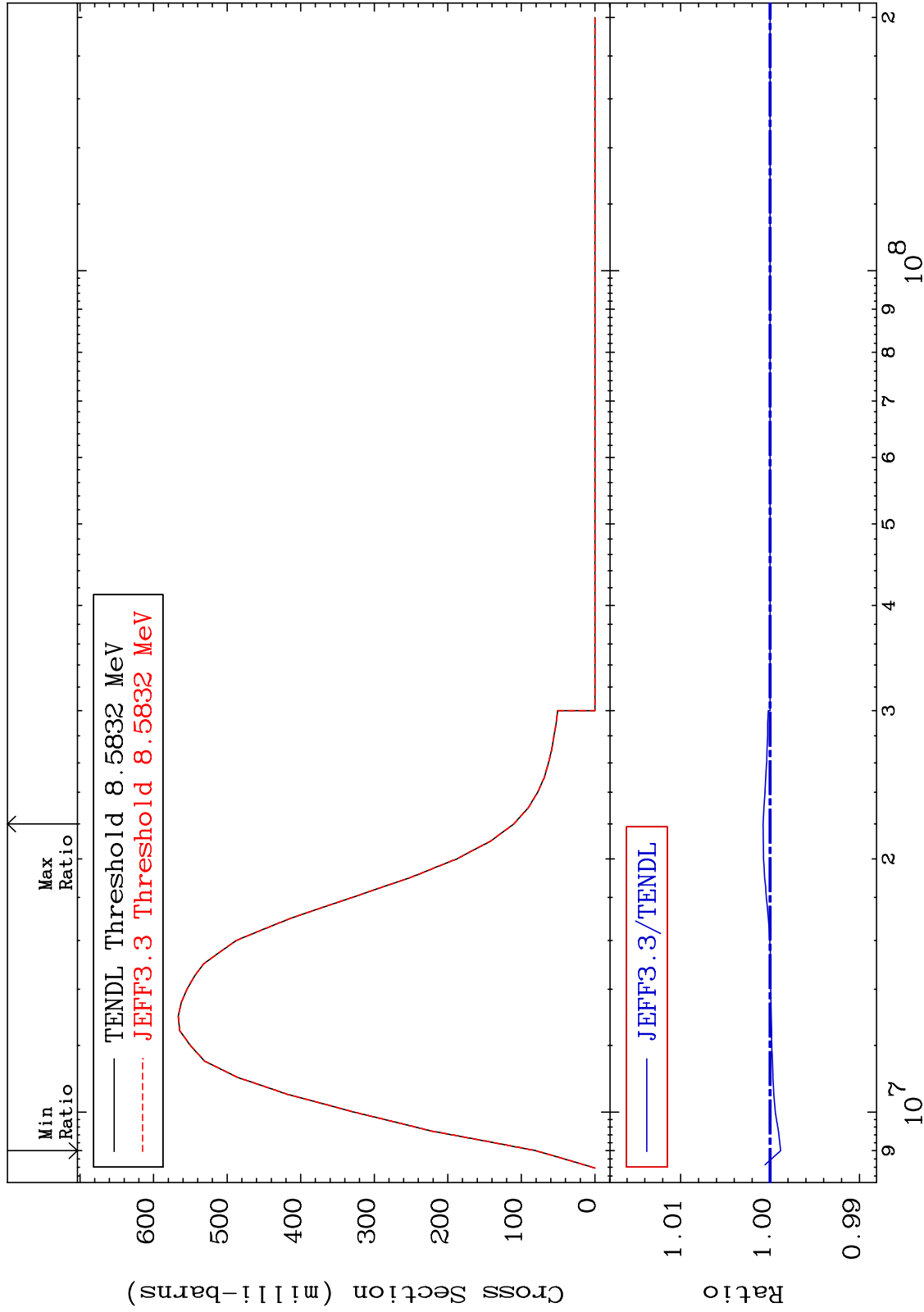
50-Sn-124

MAT 5061

(n,2n):50-Sn-123m1

50-Sn-124

Radionuclide Production Cross Section -0.118 To 0.078 %



59

Incident Energy (eV)

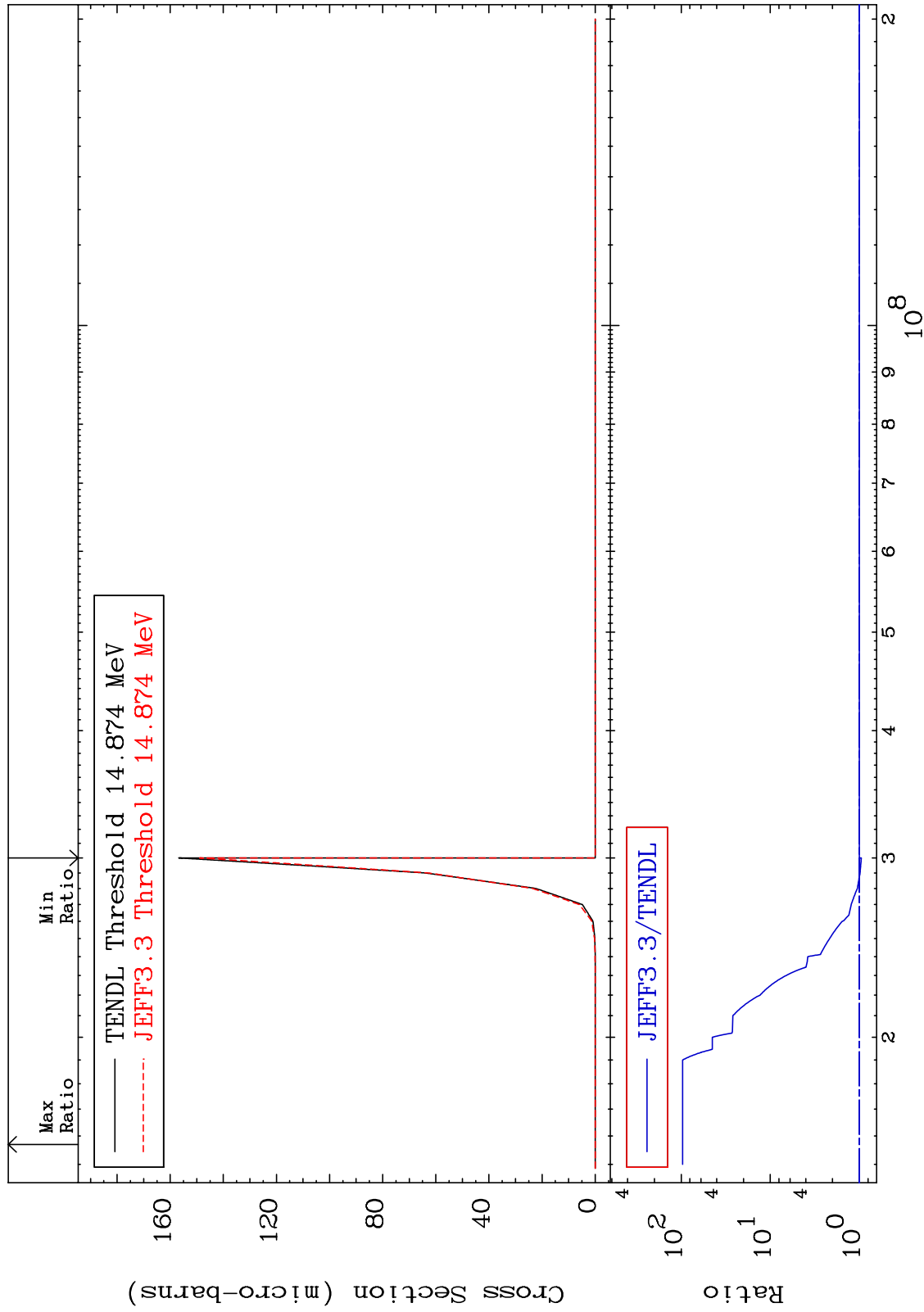
50-Sn-124

MAT 5061

(n,2n)  $\alpha$ :48-Cd-119g

50-Sn-124

Radionuclide Production Cross Section -5.032 To 9526. %

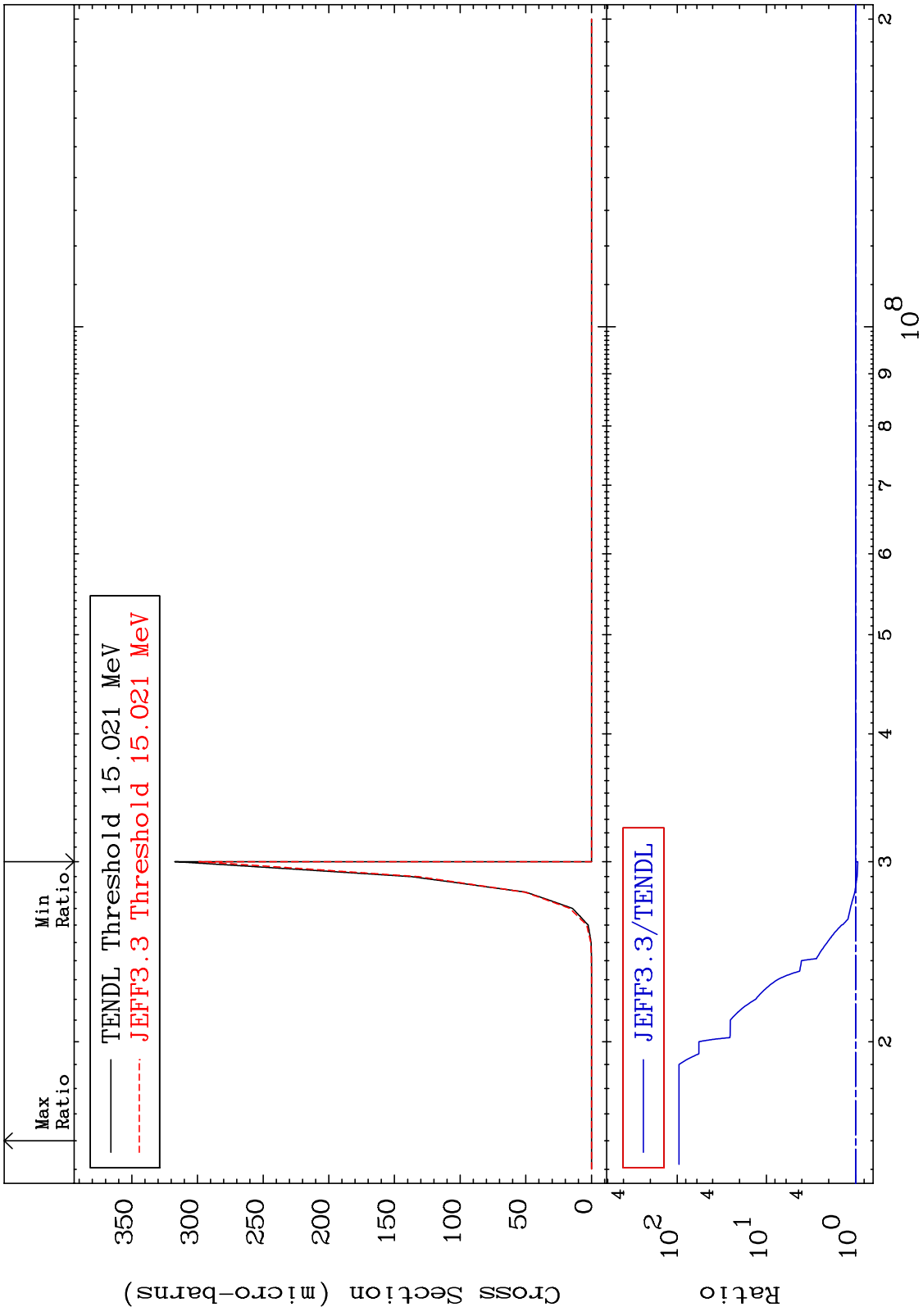


60

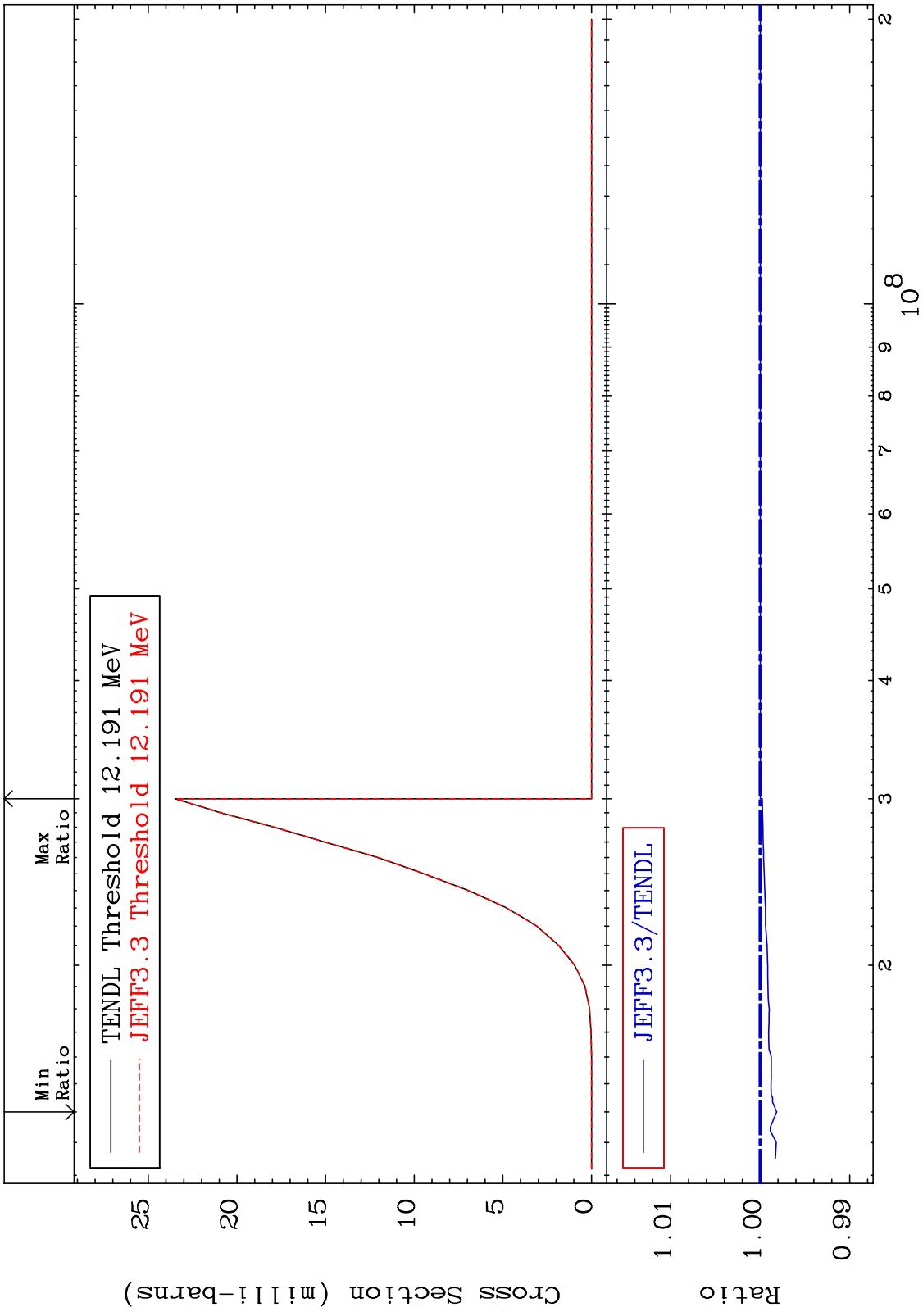
Incident Energy (eV)

50-Sn-124

MAT 5061 (n,2n)  $\alpha$ : 48-Cd-119m2 50-Sn-124  
 Radionuclide Production Cross Section -5.788 To 9423. %



MAT 5061 (n, n') p:49-In-123g 50-Sn-124  
 Radionuclide Production Cross Section -0.184 To 0.000 %

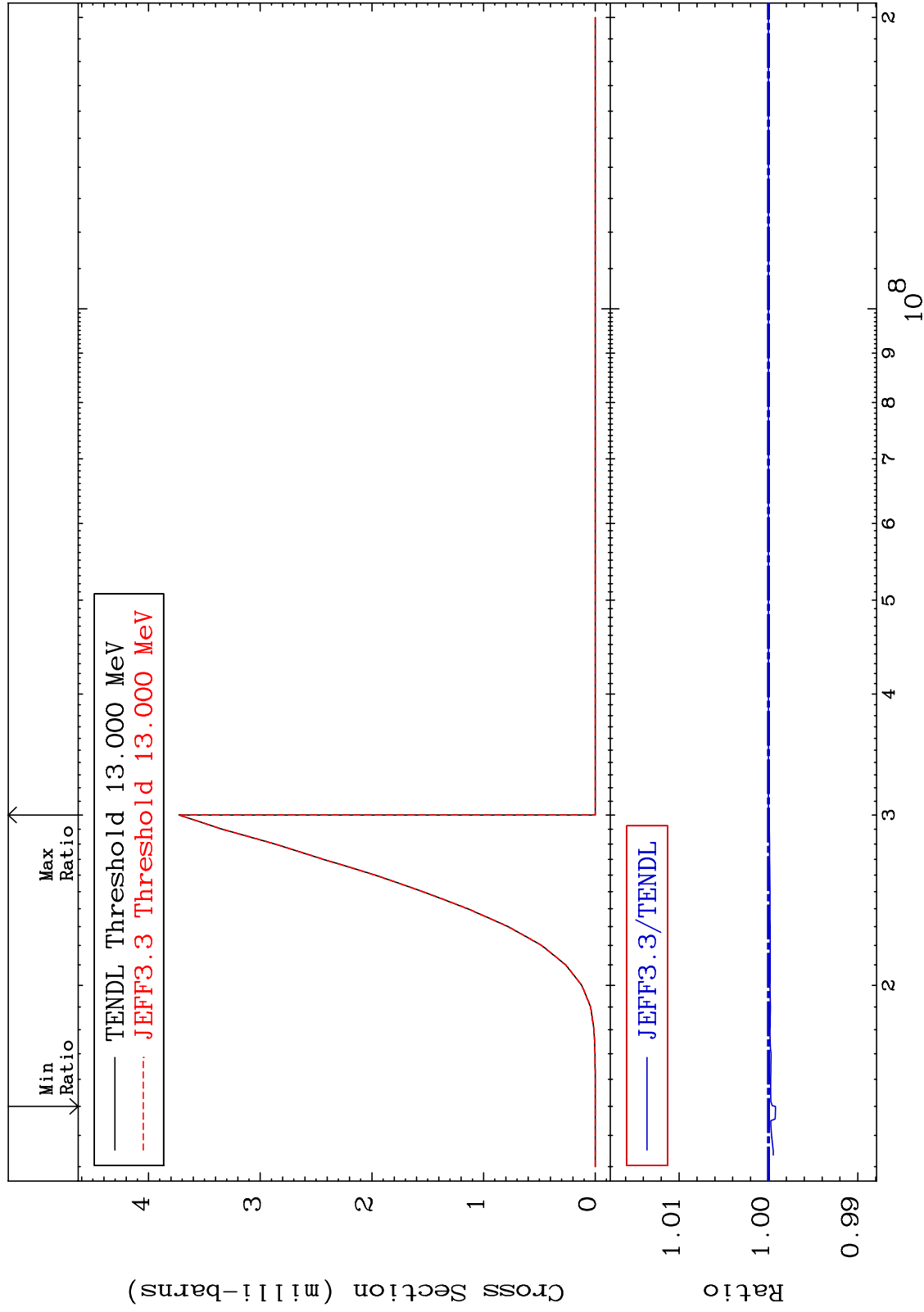


MAT 5061

(n,n') p:49-In-123m1

50-Sn-124

Radionuclide Production Cross Section -0.079 To 0.000 %



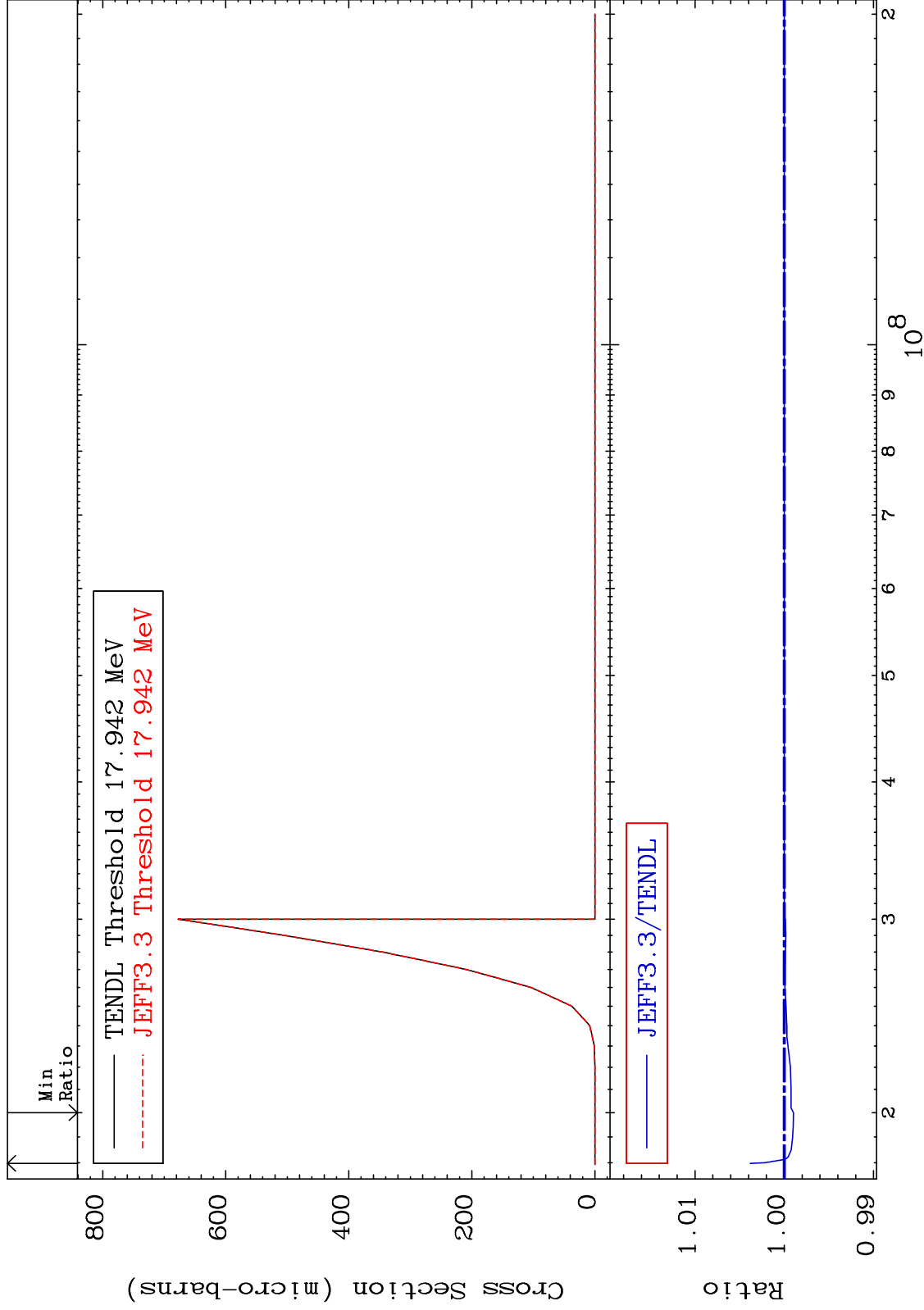


MAT 5061

(n, n') d:49-In-122g

50-Sn-124

Radionuclide Production Cross Section -0.104 To 0.382 %



64

Incident Energy (eV)

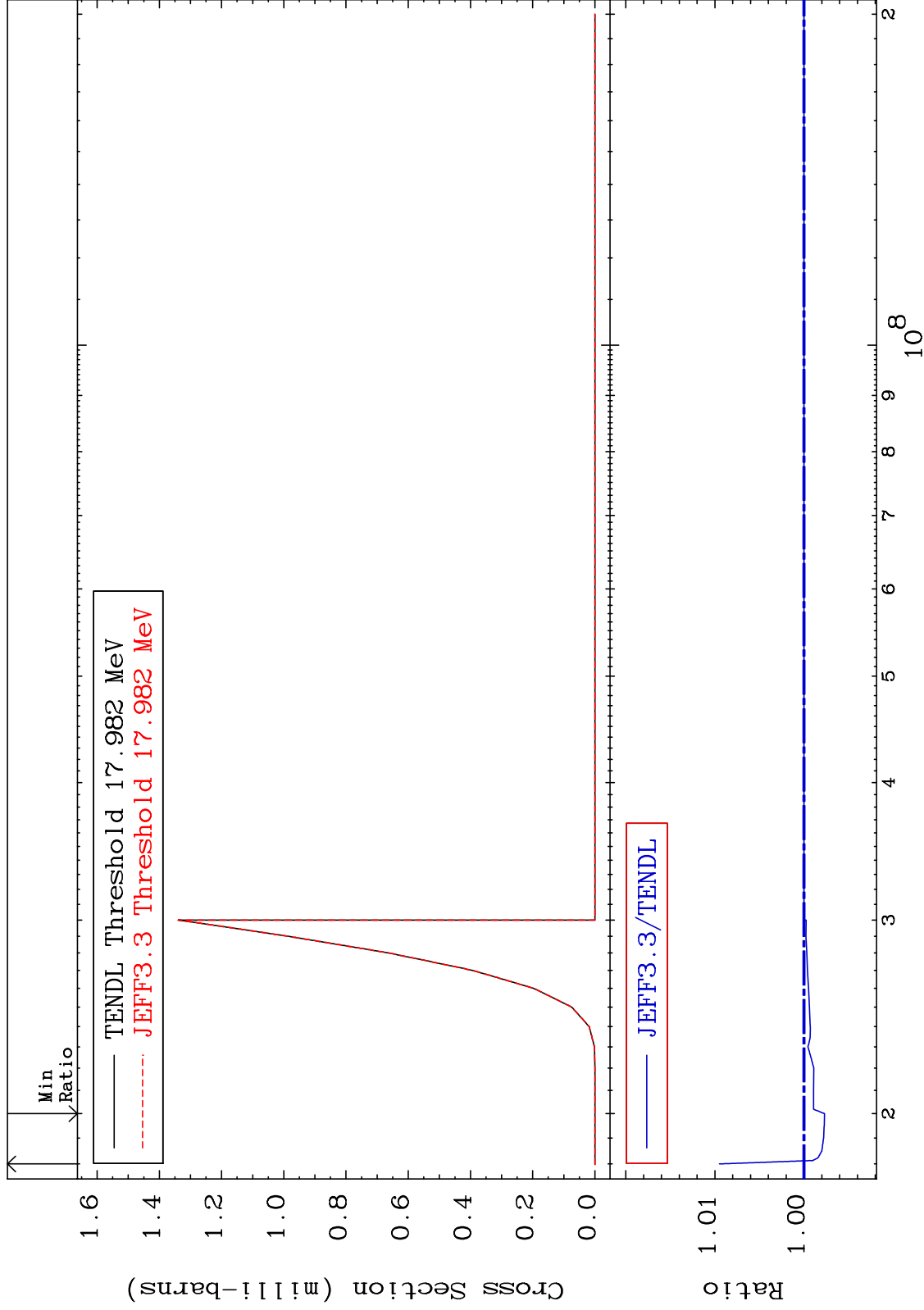
50-Sn-124

MAT 5061

(n, n') d:49-In-122m1

50-Sn-124

Radionuclide Production Cross Section -0.230 To 0.952 %

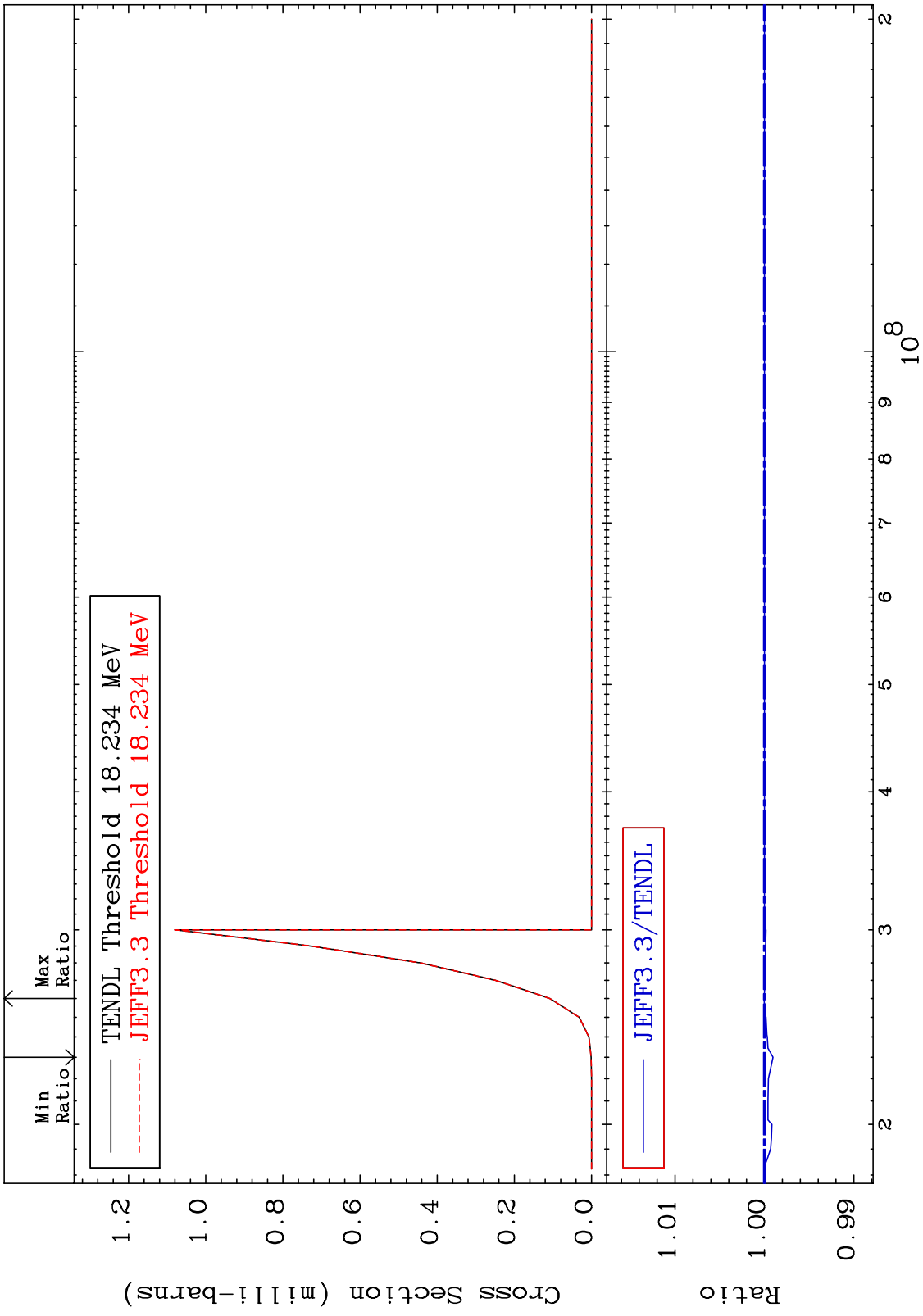


65

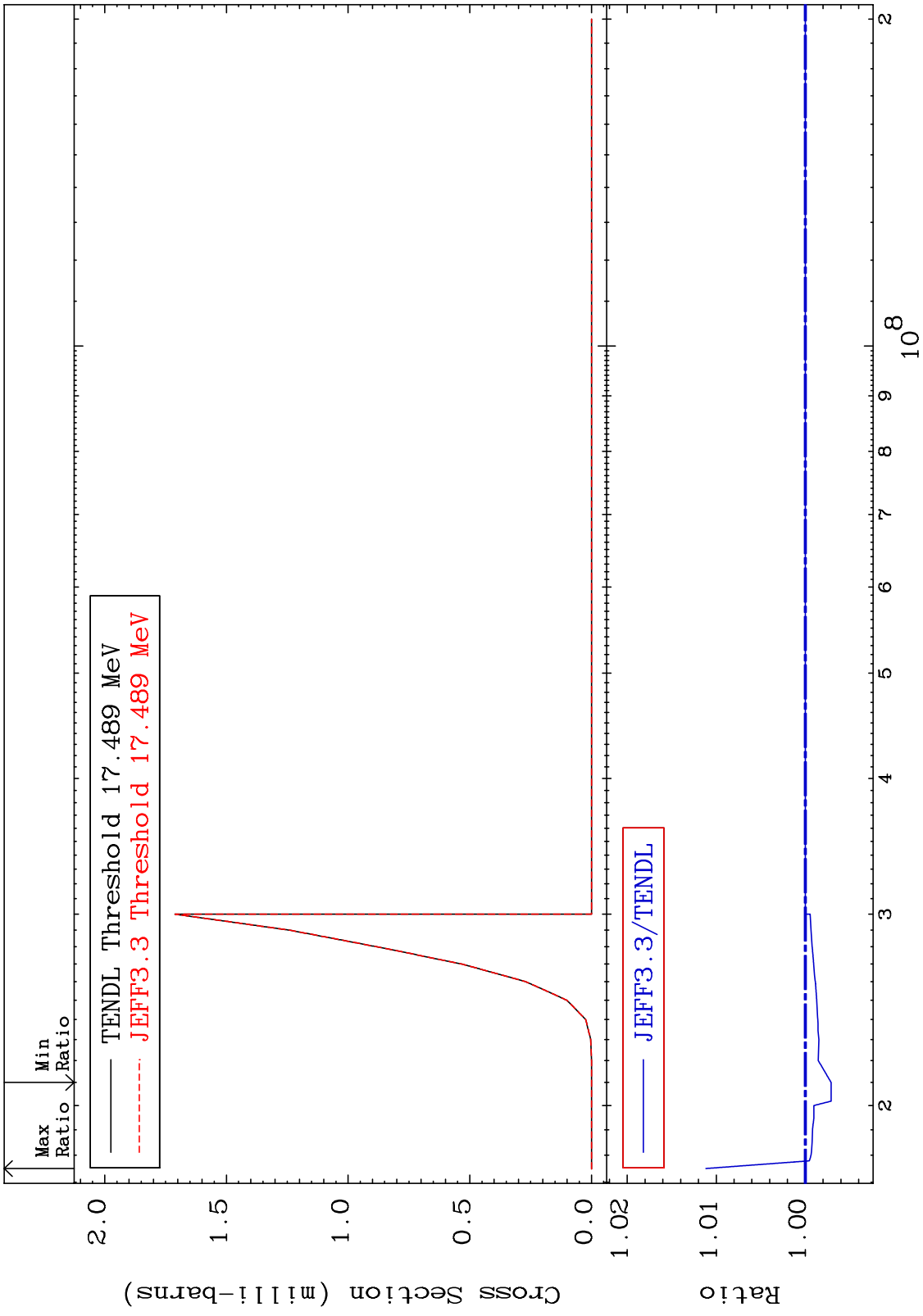
Incident Energy (eV)

50-Sn-124

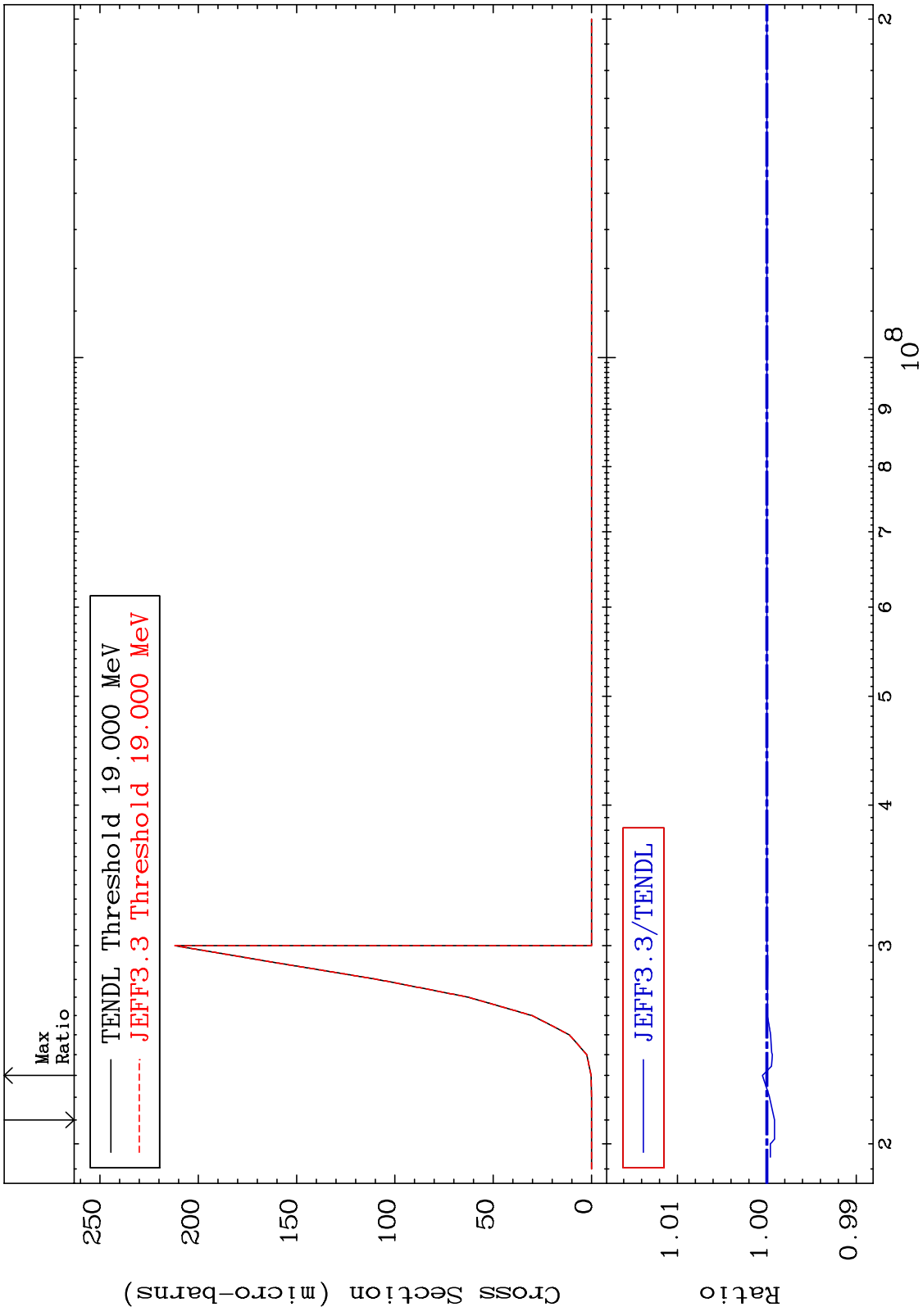
MAT 5061 (n,n') d:49-In-122m5 50-Sn-124  
 Radionuclide Production Cross Section -0.095 To 0.006 %



MAT 5061 (n, n') t:49-In-121g 50-Sn-124  
 Radionuclide Production Cross Section -0.290 To 1.118 %



MAT 5061 (n,n') t:49-In-121m1 50-Sn-124  
 Radionuclide Production Cross Section -0.085 To 0.049 %

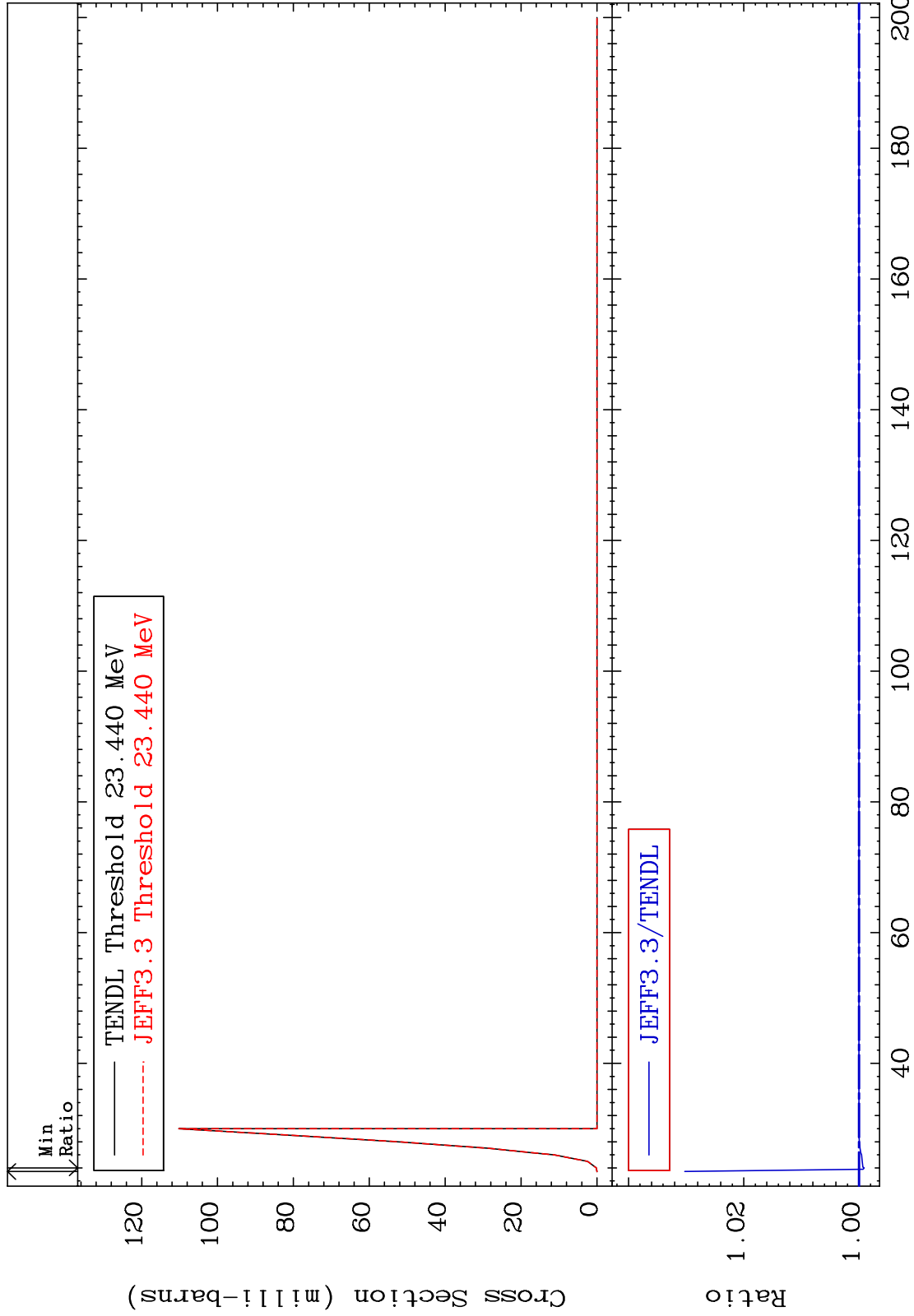


MAT 5061

(n,4n):50-Sn-121g

50-Sn-124

Radionuclide Production Cross Section -0.091 To 3.023 %



69

50-Sn-124

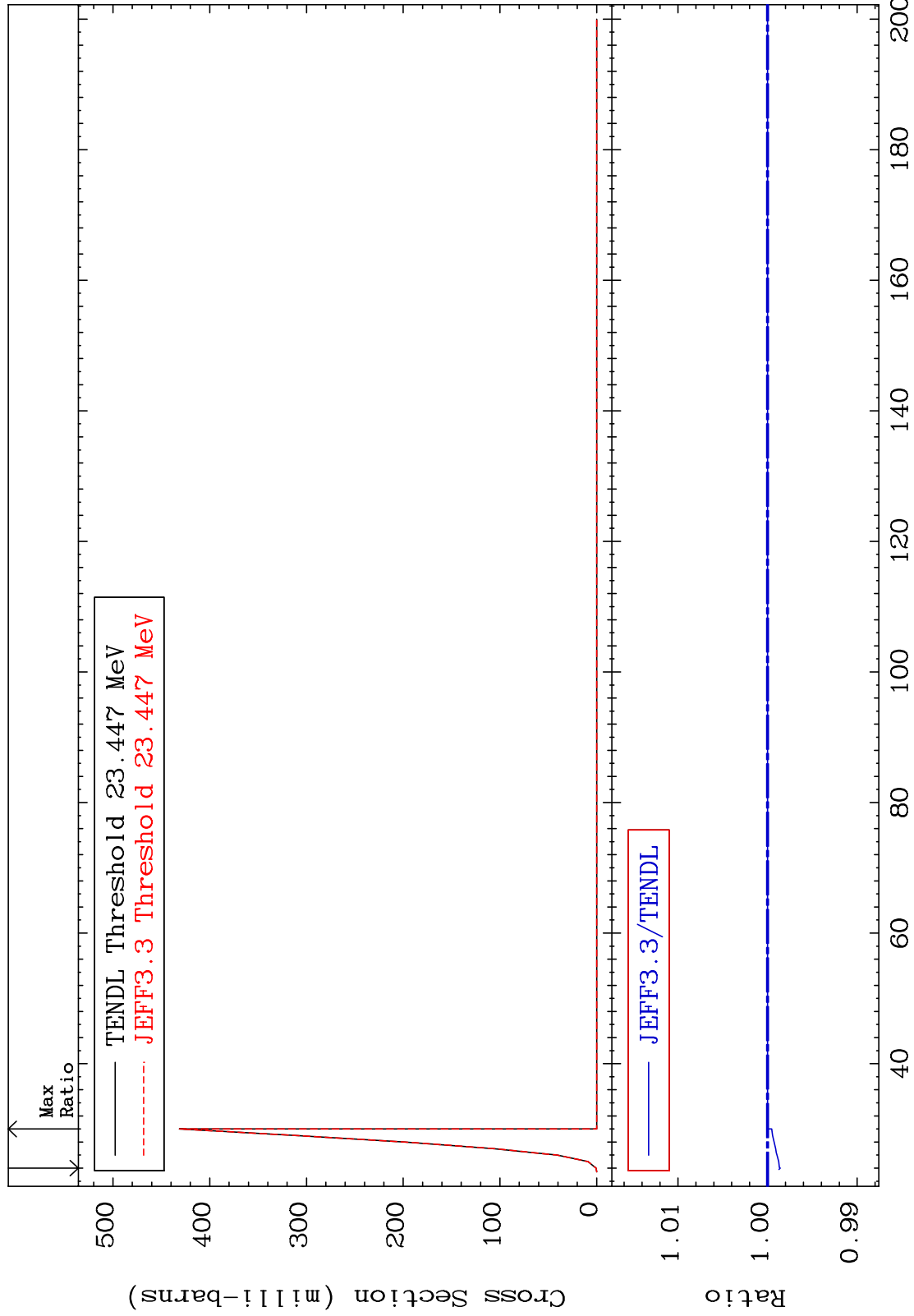
Incident Energy (MeV)

MAT 5061

(n,4n):50-Sn-121m1

50-Sn-124

Radionuclide Production Cross Section -0.142 To 0.000 %



70

Incident Energy (MeV)

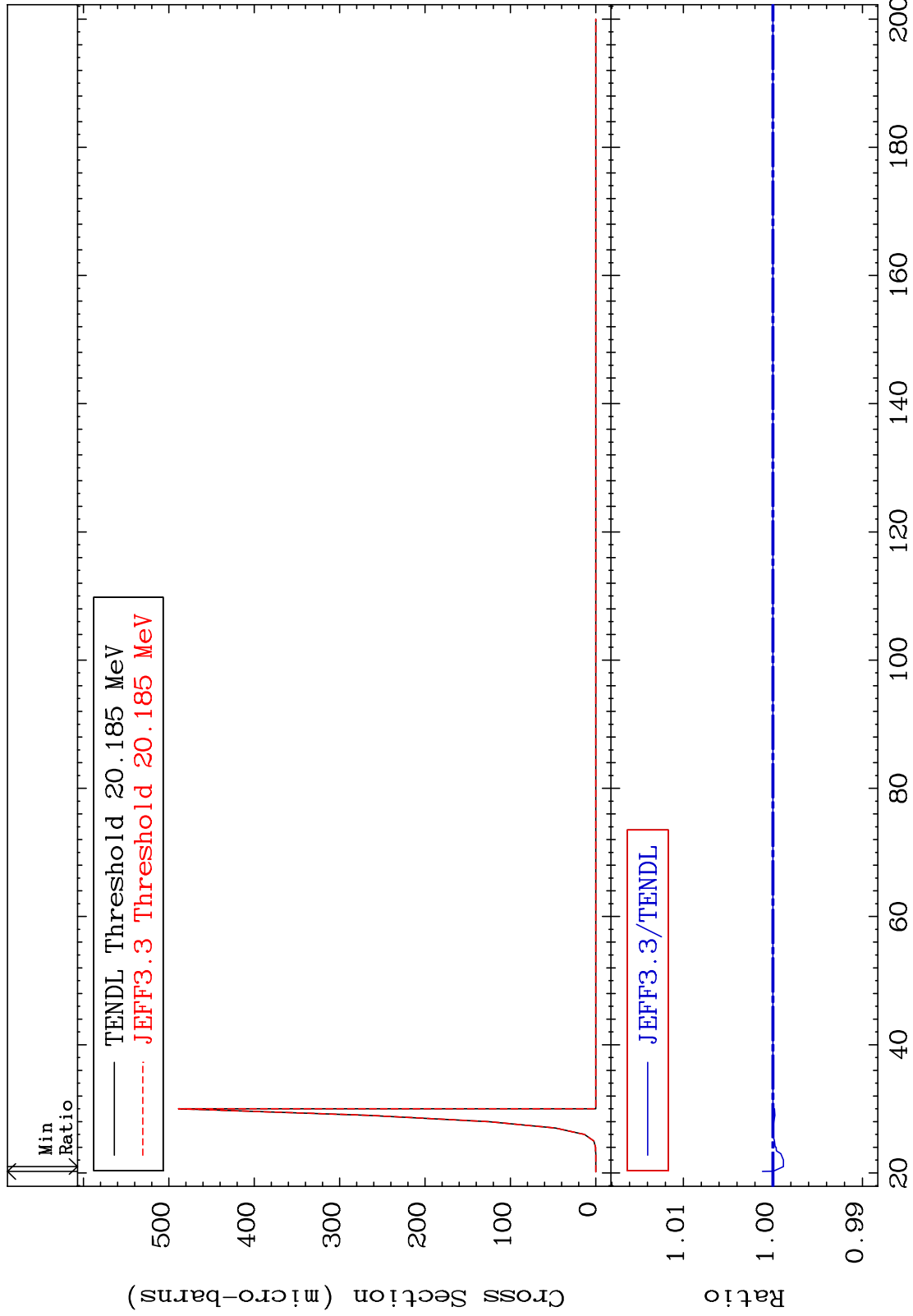
50-Sn-124

MAT 5061

(n,2n) p:49-In-122g

50-Sn-124

Radionuclide Production Cross Section -0.119 To 0.116 %



71

Incident Energy (MeV)

50-Sn-124

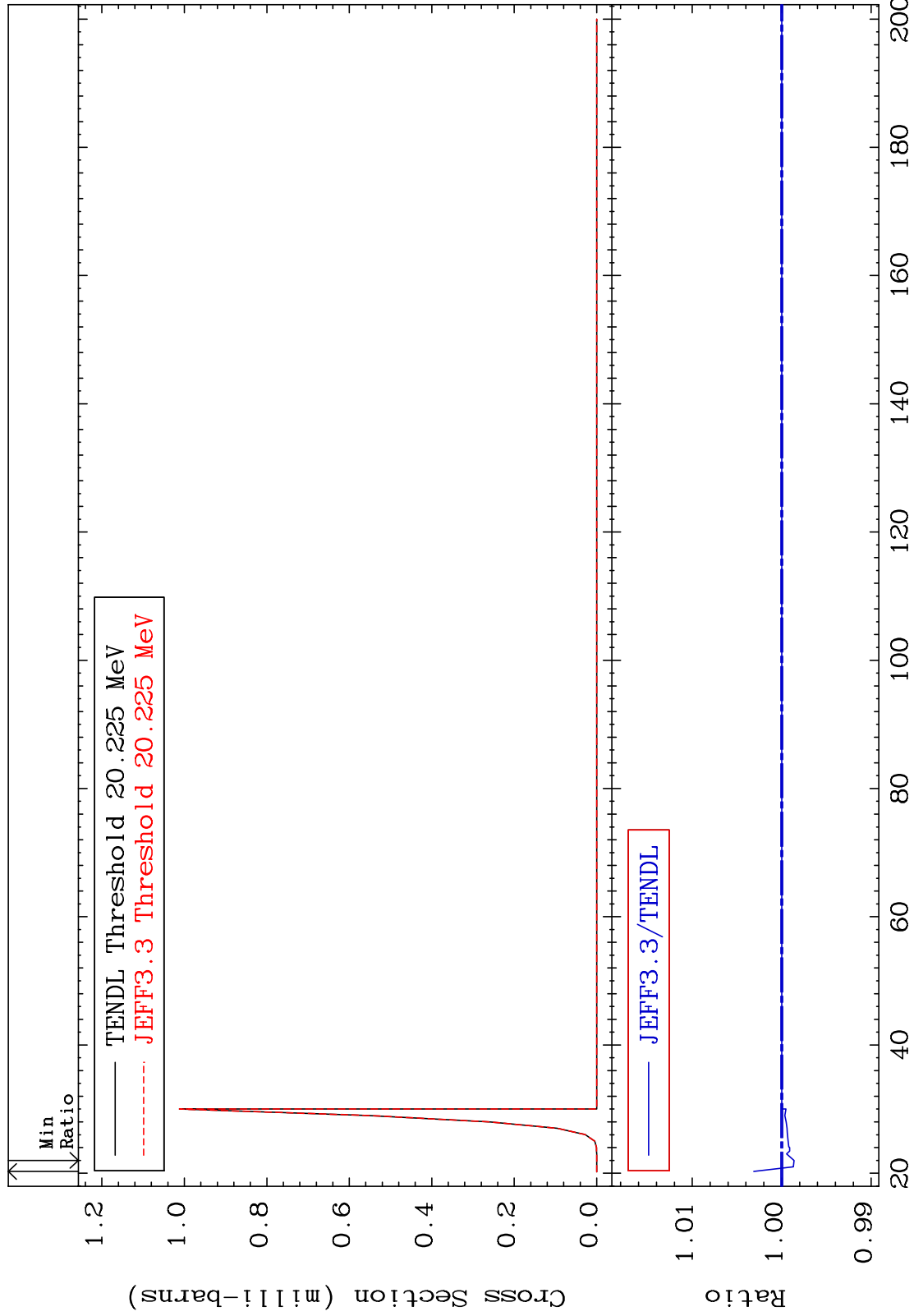


MAT 5061

(n,2n) p:49-In-122m1

50-Sn-124

Radionuclide Production Cross Section -0.138 To 0.312 %

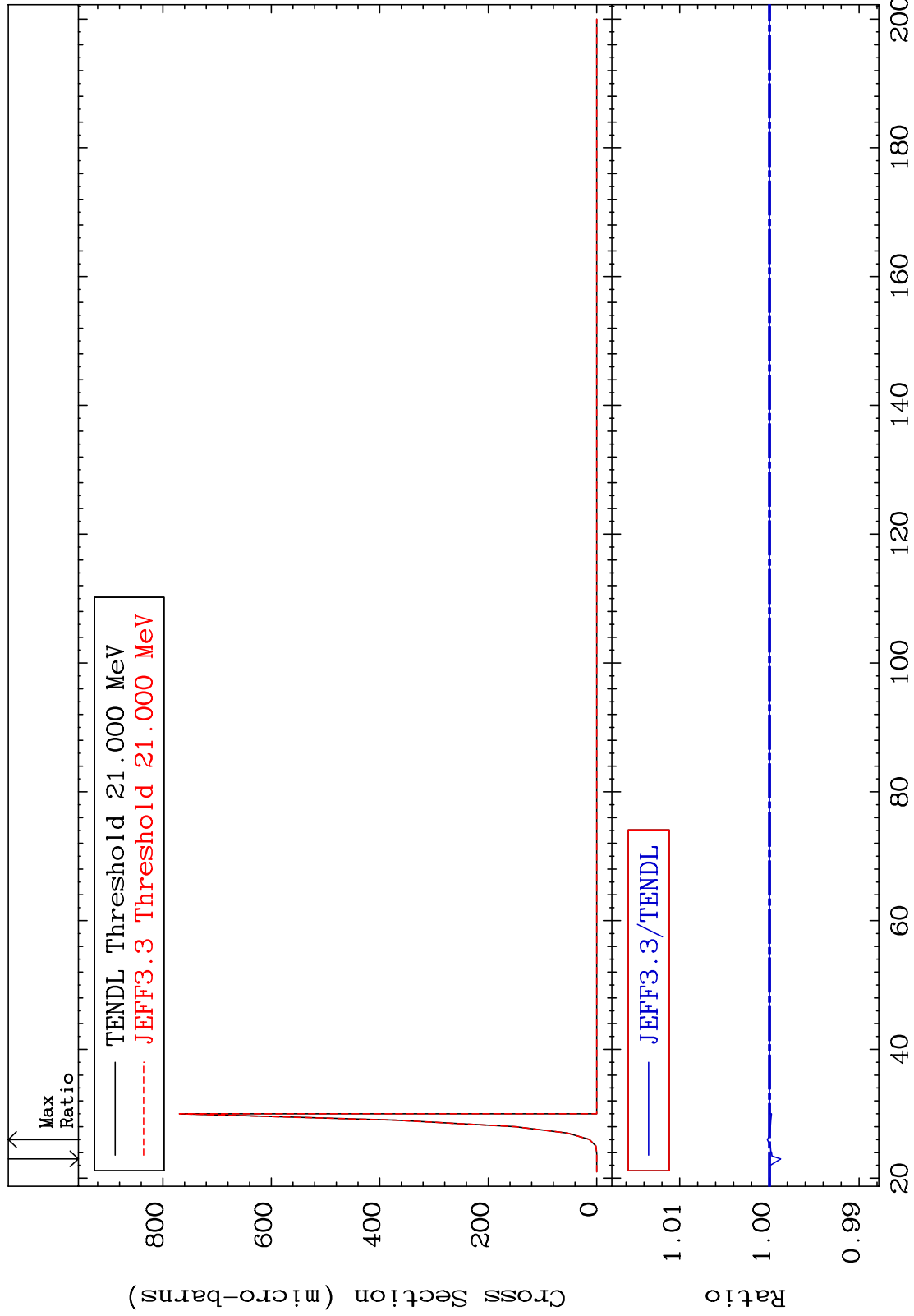


MAT 5061

(n,2n) p:49-In-122m5

50-Sn-124

Radionuclide Production Cross Section -0.125 To 0.024 %

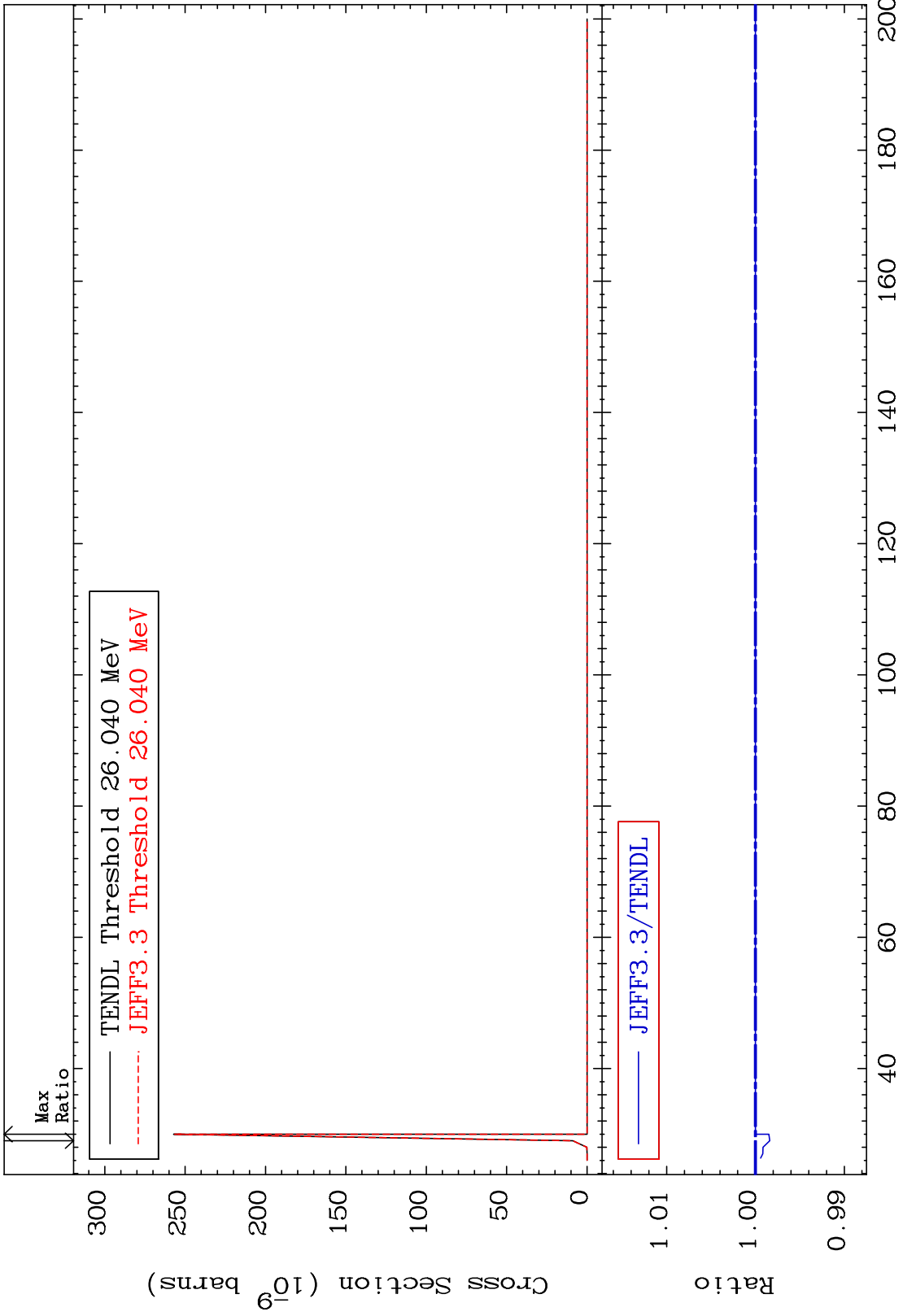


73

Incident Energy (MeV)

50-Sn-124

MAT 5061 (n,3n) p:49-In-121g 50-Sn-124  
 Radionuclide Production Cross Section -0.161 To 0.000 %

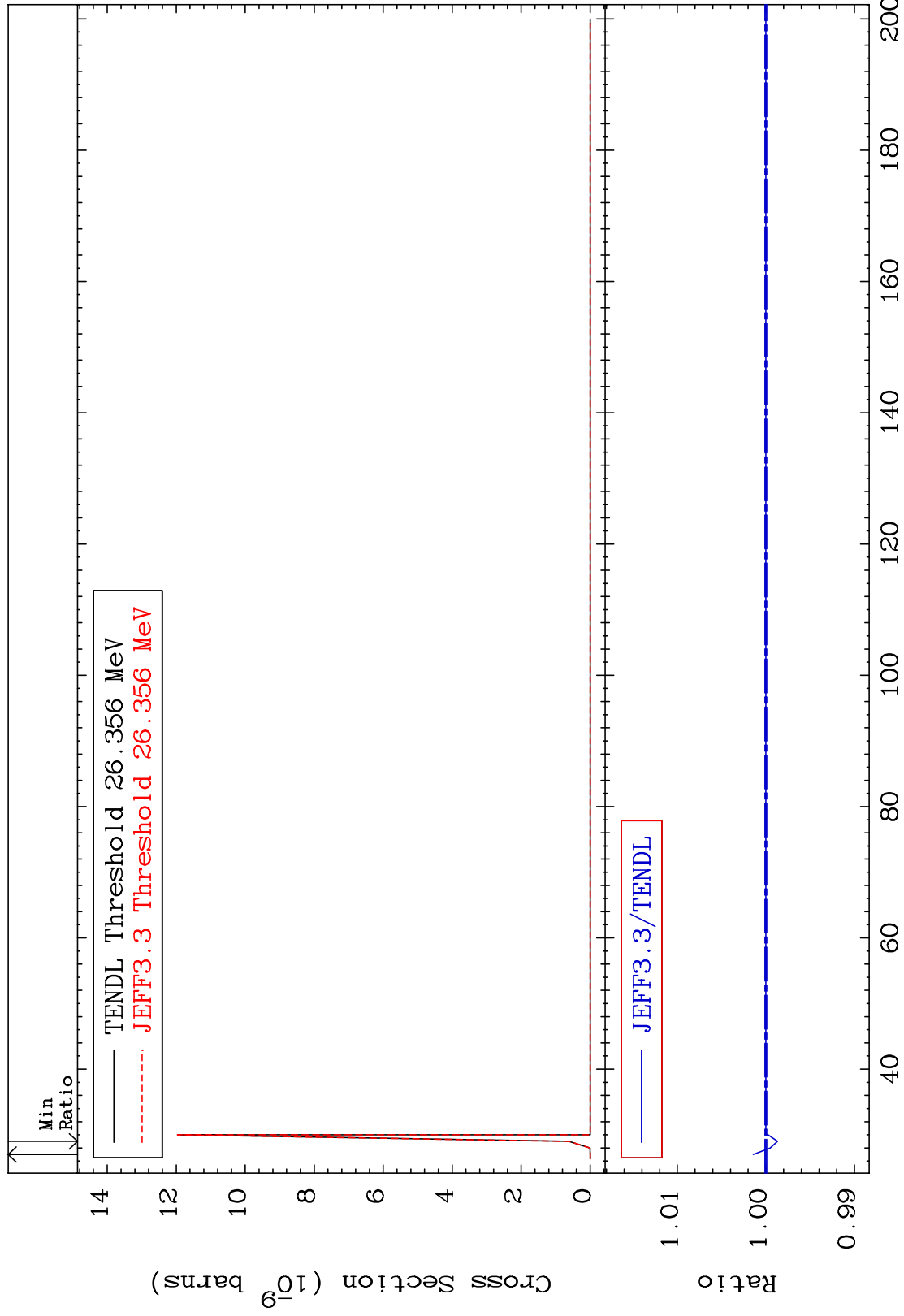


MAT 5061

(n,3n) p:49-In-121m1

50-Sn-124

Radionuclide Production Cross Section -0.132 To 0.141 %



75

Incident Energy (MeV)

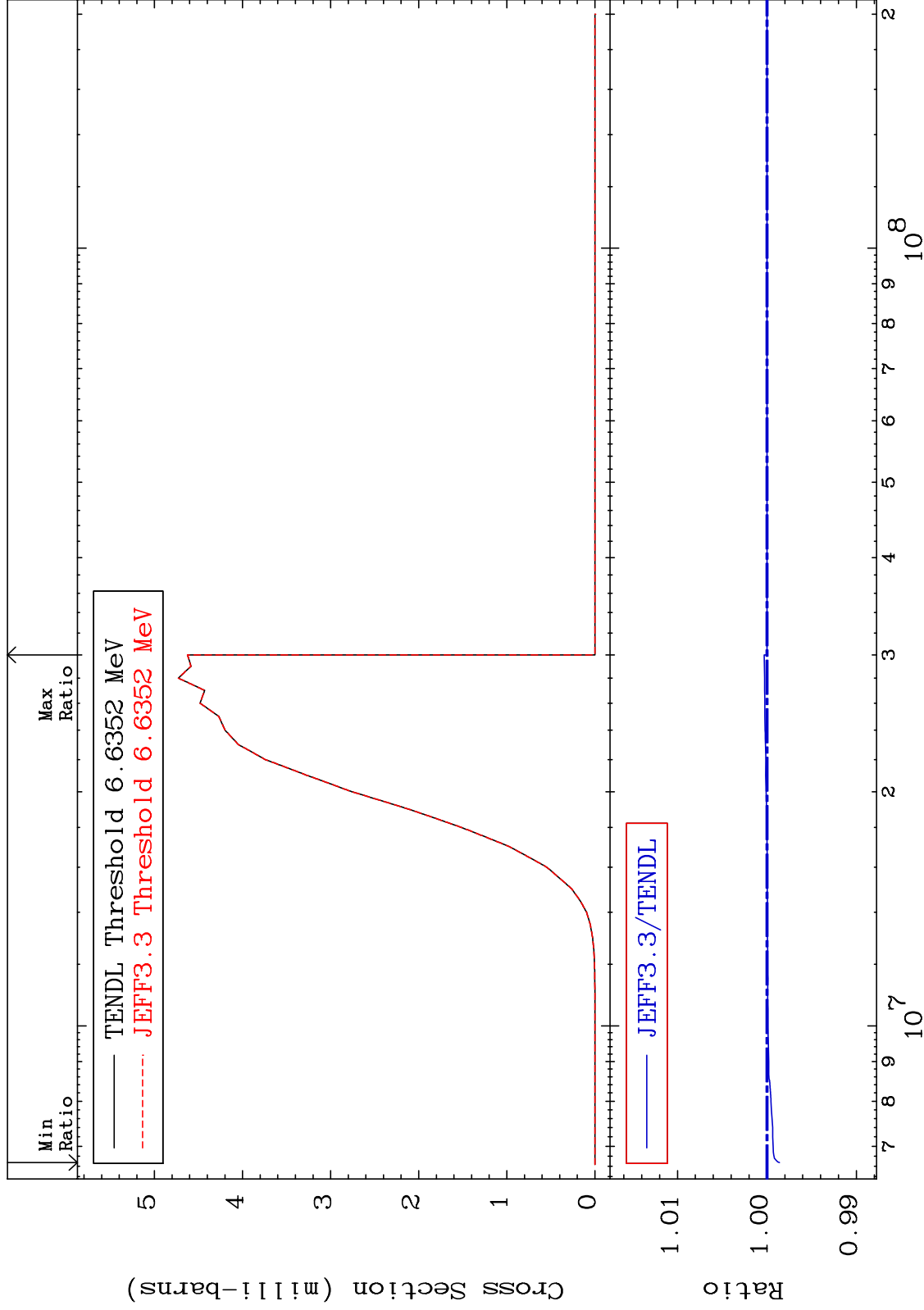
50-Sn-124

MAT 5061

(n,p):49-In-124g

50-Sn-124

Radionuclide Production Cross Section -0.141 To 0.031 %



76

Incident Energy (eV)

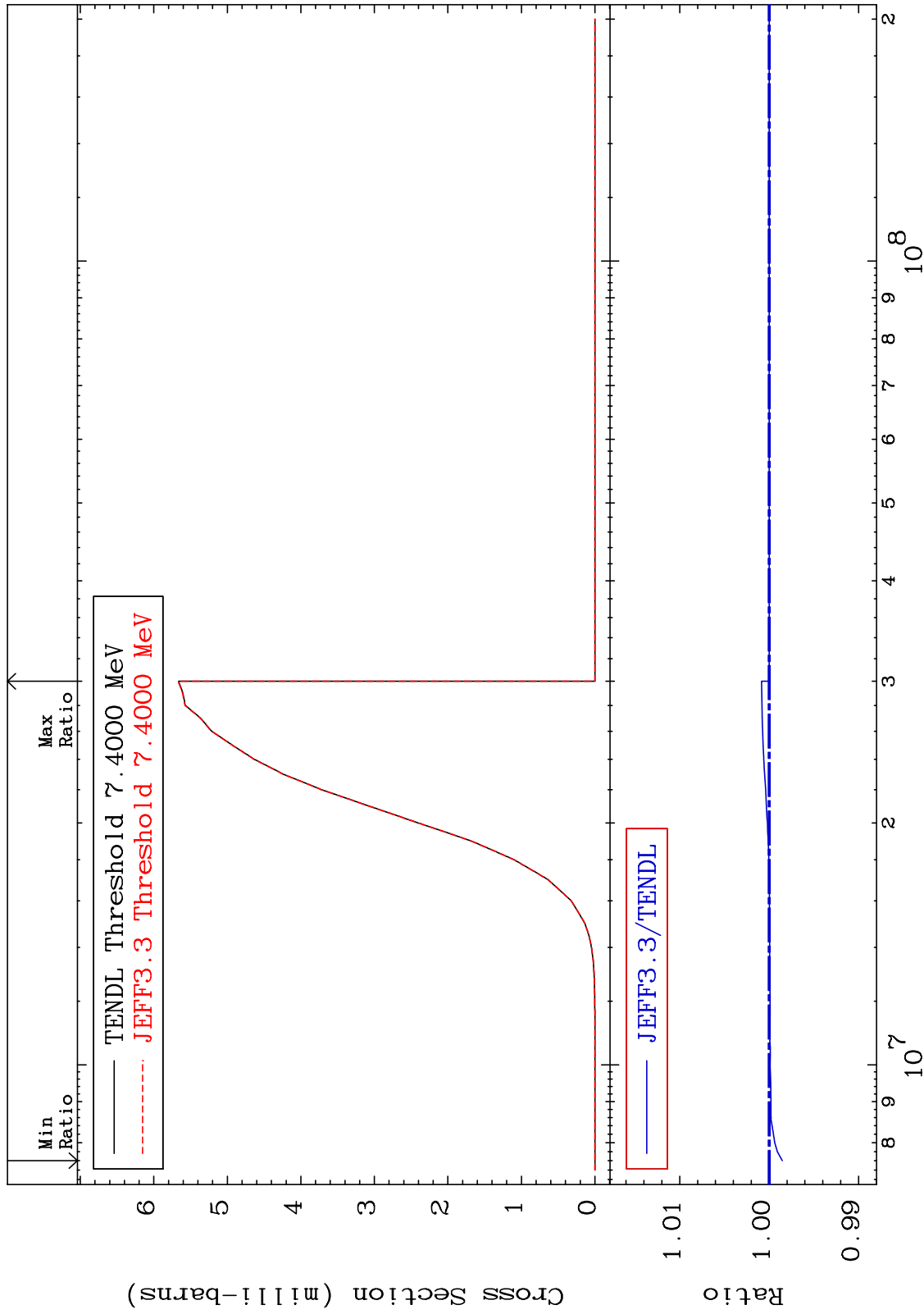
50-Sn-124

MAT 5061

(n, p) : 49-In-124m2

50-Sn-124

Radionuclide Production Cross Section -0.147 To 0.086 %



77

Incident Energy (eV)

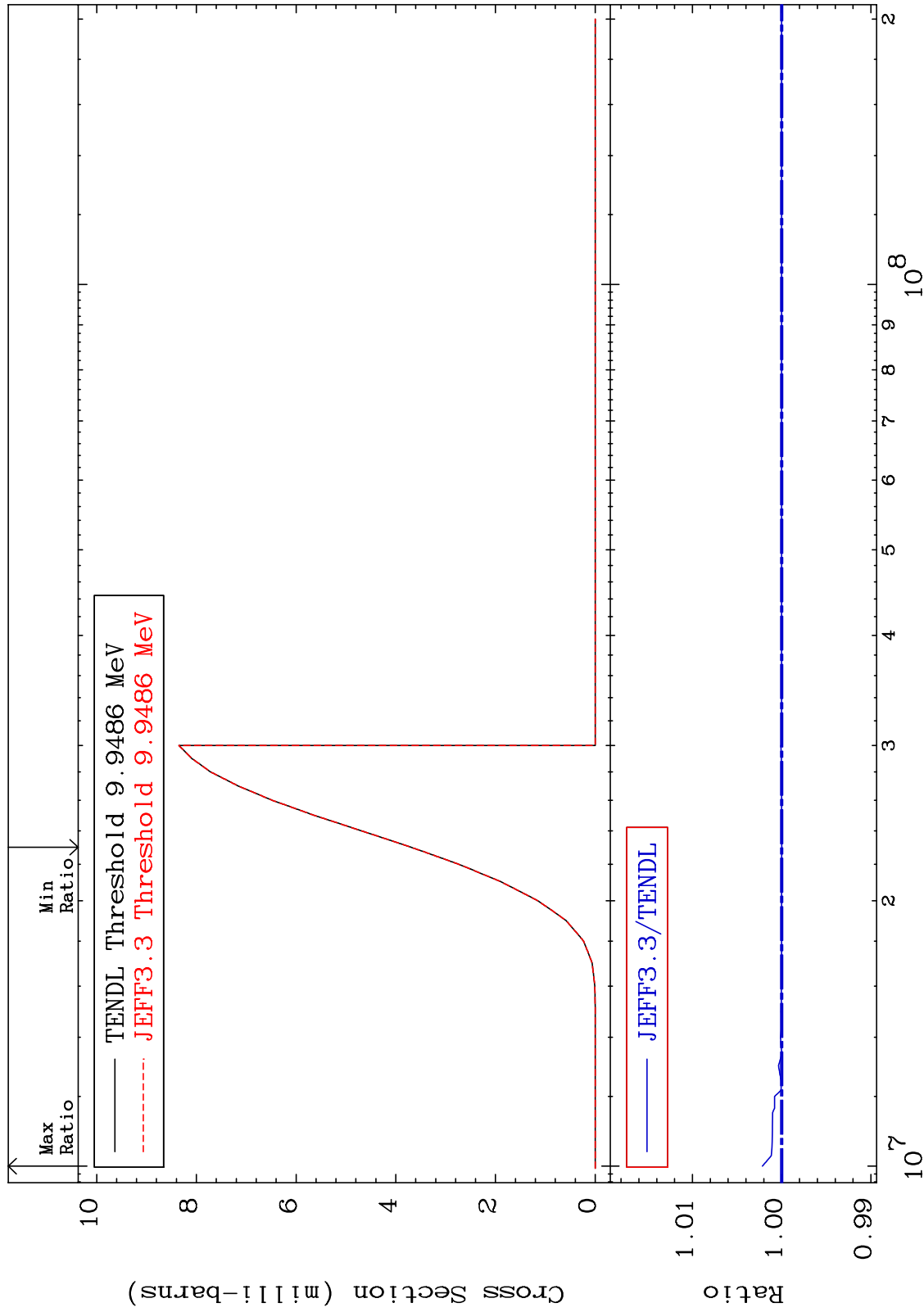
50-Sn-124

MAT 5061

(n,d) : 49-In-123g

50-Sn-124

Radionuclide Production Cross Section 0.000 To 0.217 %



78

Incident Energy (eV)

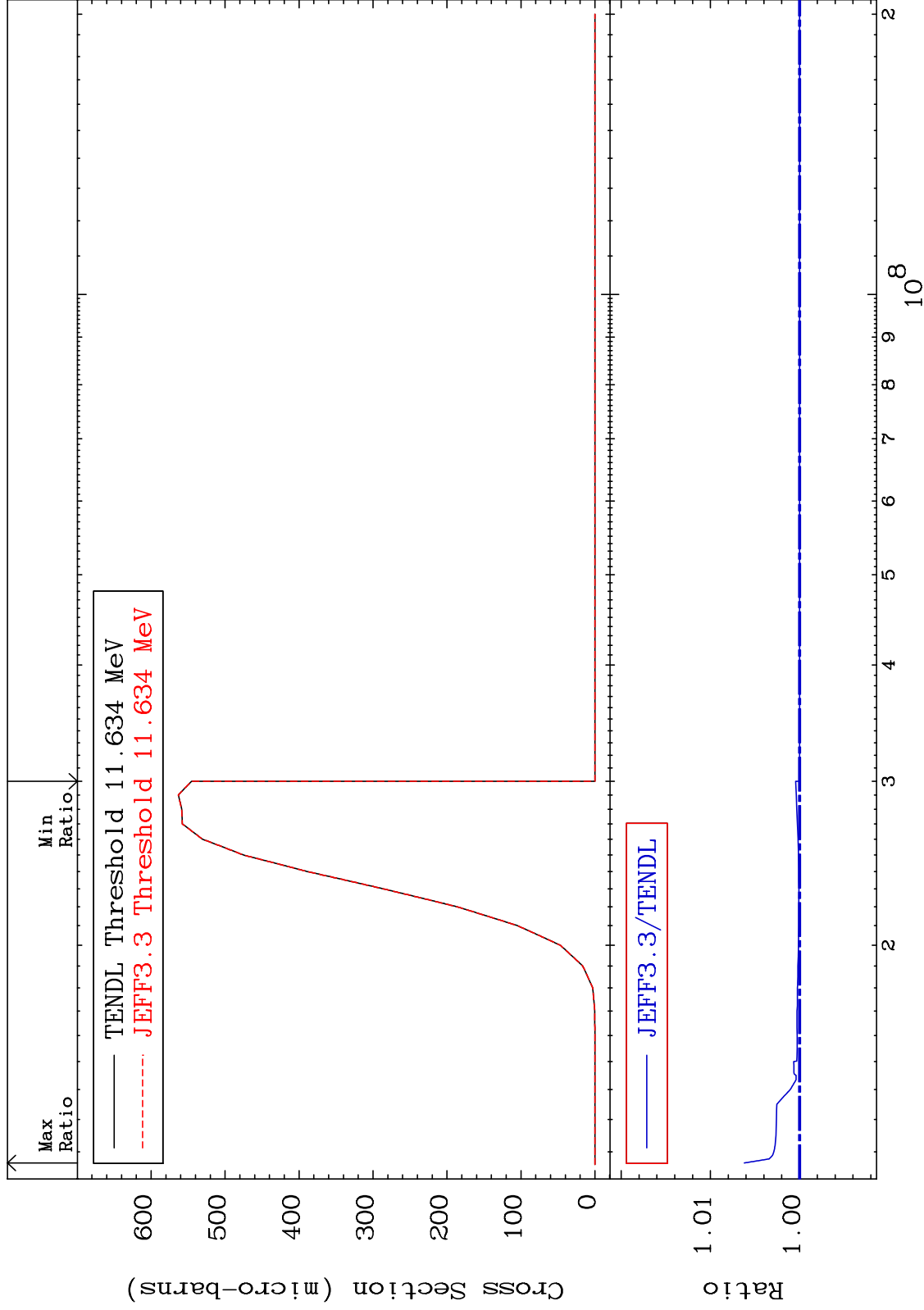
50-Sn-124

MAT 5061

(n,t):49-In-122g

50-Sn-124

Radionuclide Production Cross Section 0.000 To 0.621 %



79

Incident Energy (eV)

50-Sn-124

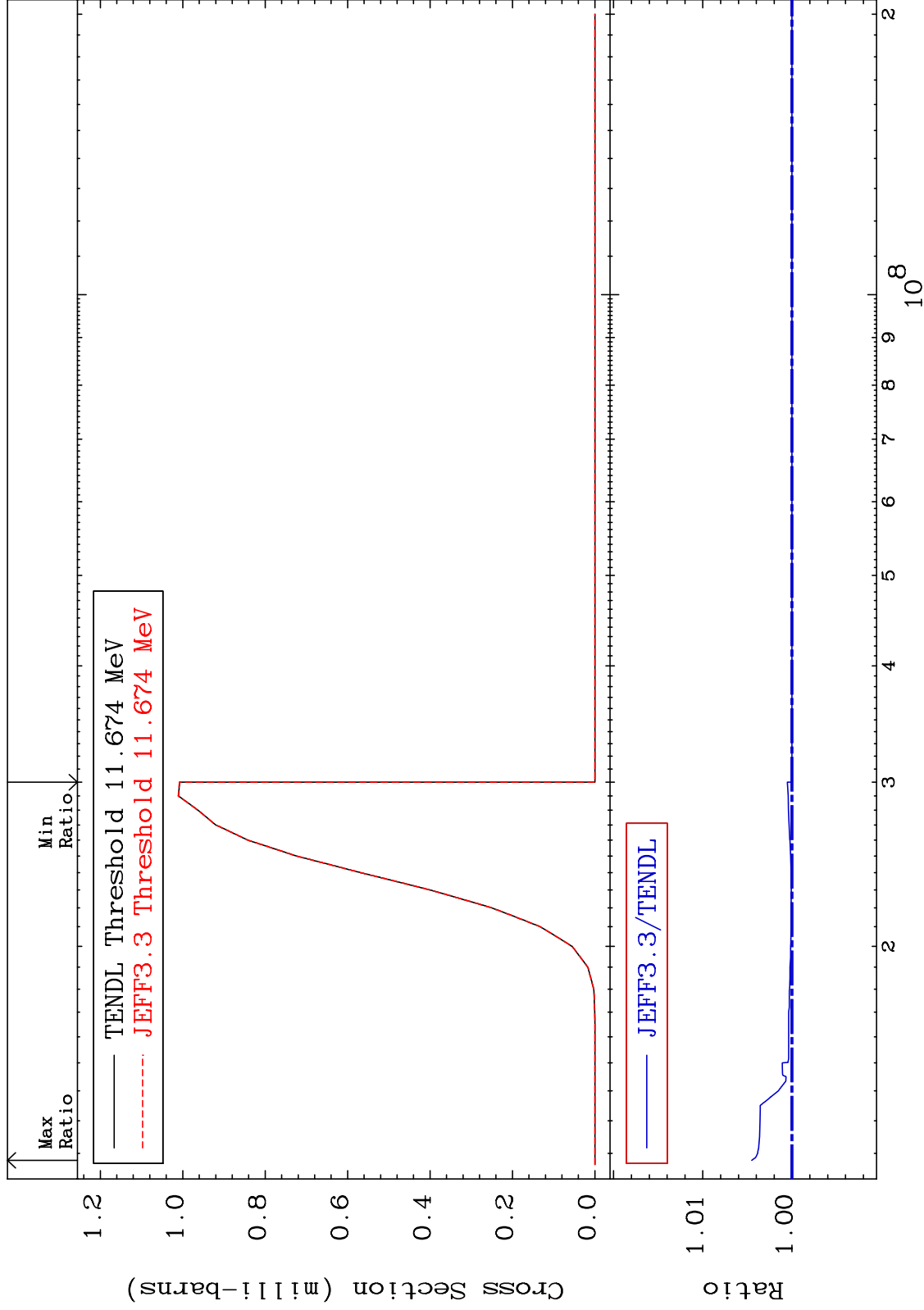


MAT 5061

(n, t) : 49-In-122m1

50-Sn-124

Radionuclide Production Cross Section 0.000 To 0.451 %

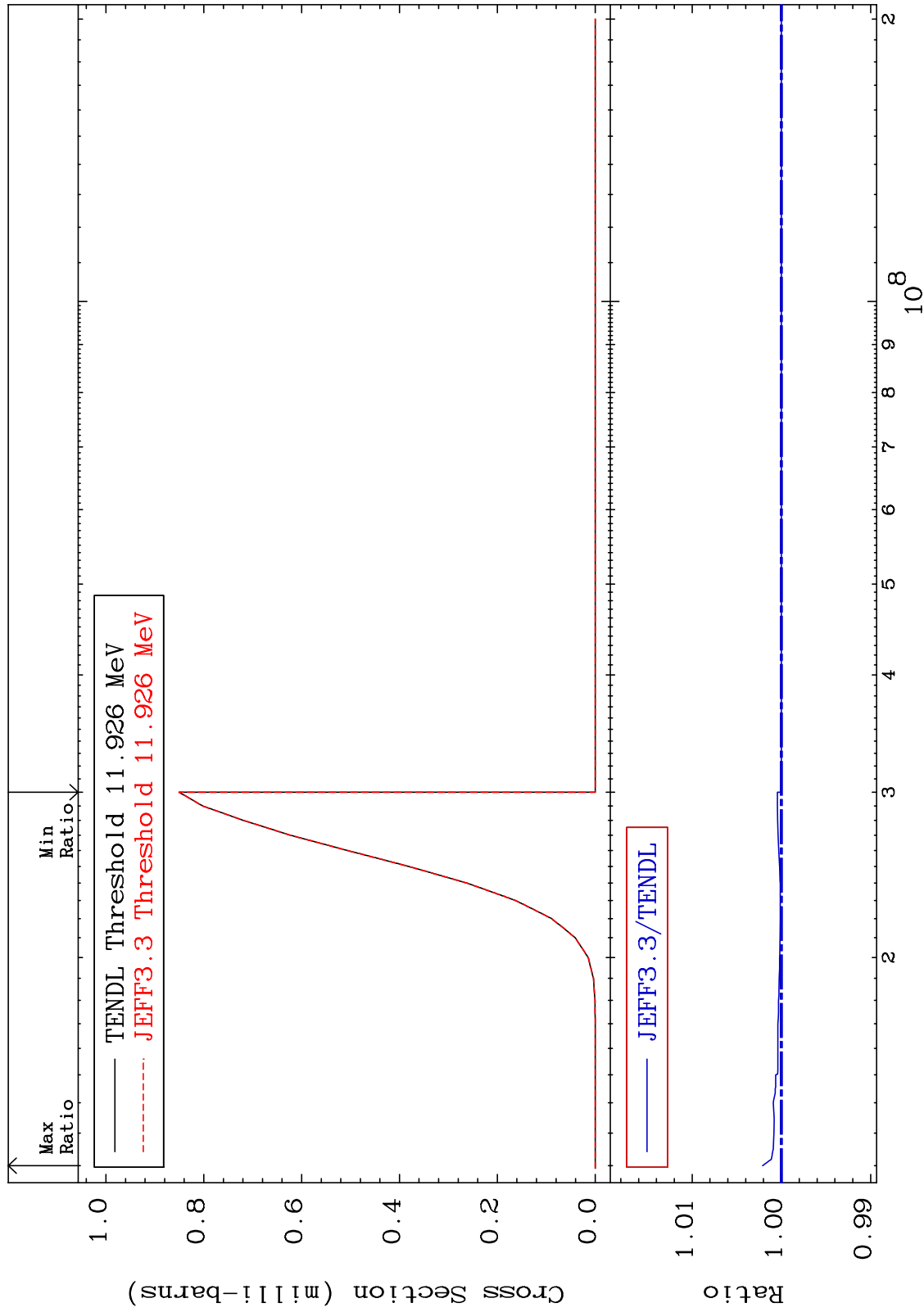


MAT 5061

(n, t) : 49-In-122m5

50-Sn-124

Radionuclide Production Cross Section 0.000 To 0.210 %

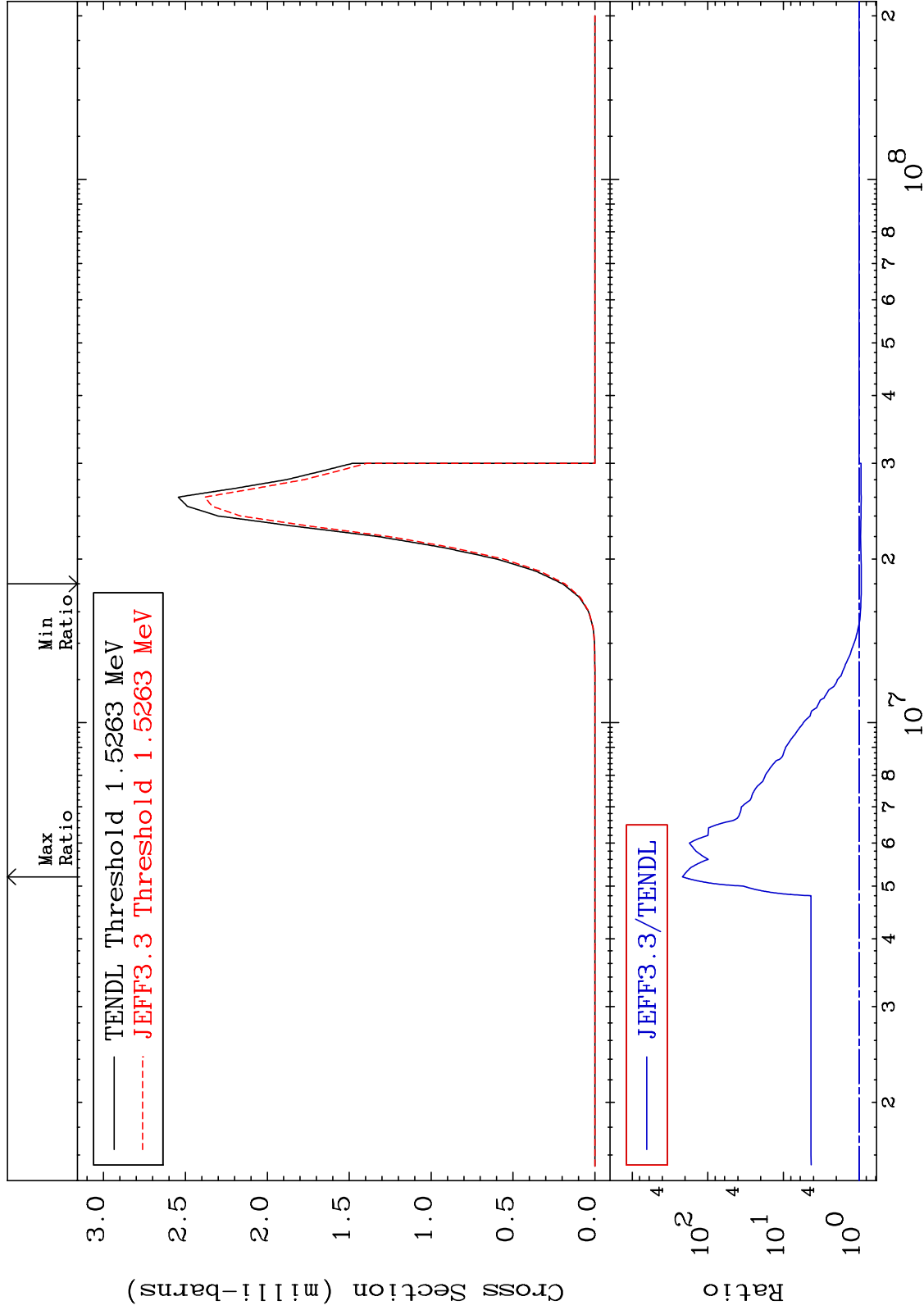


MAT 5061

(n,  $\alpha$ ): 48-Cd-121g

50-Sn-124

Radionuclide Production Cross Section -6.763 To 9999. %

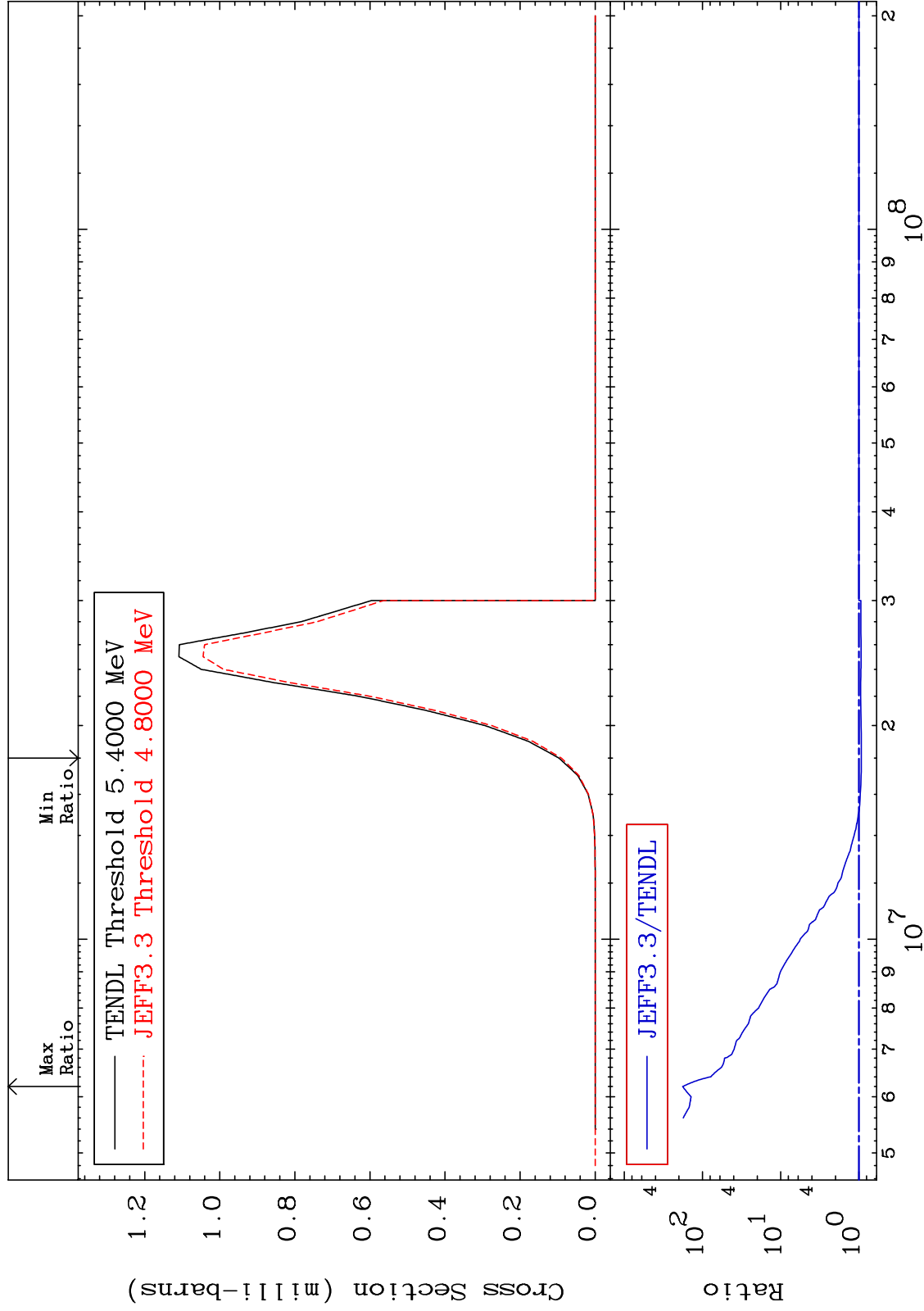


MAT 5061

(n,  $\alpha$ ): 48-Cd-121m2

50-Sn-124

Radionuclide Production Cross Section -6.675 To 9999. %

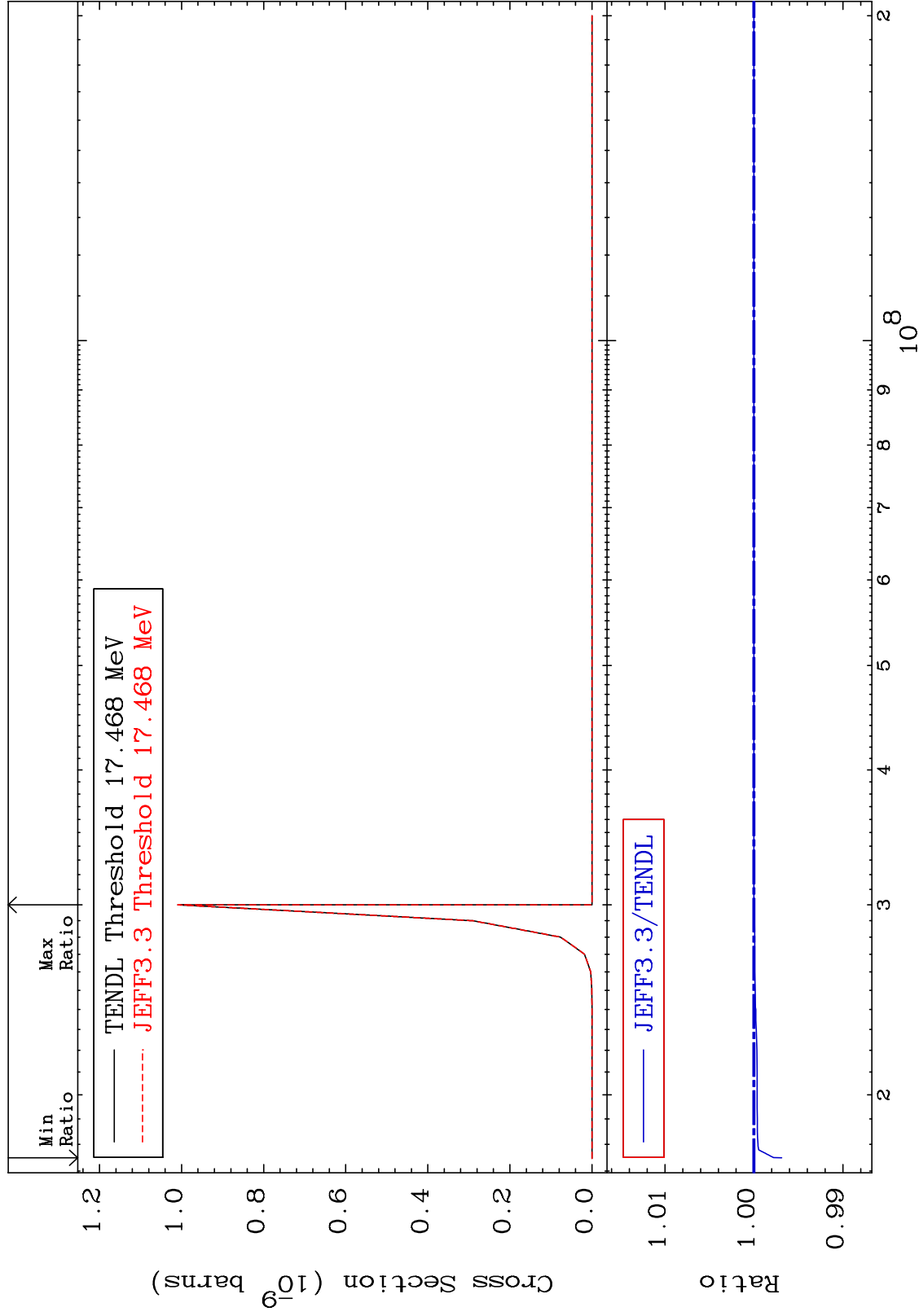


MAT 5061

(n,2p):48-Cd-123g

50-Sn-124

Radionuclide Production Cross Section -0.312 To 0.000 %



MAT 5061

(n,2p) : 48-Cd-123m3

50-Sn-124

Radionuclide Production Cross Section -0.043 To 0.000 %

