

Program Complot  
(Version 2021-1)

by

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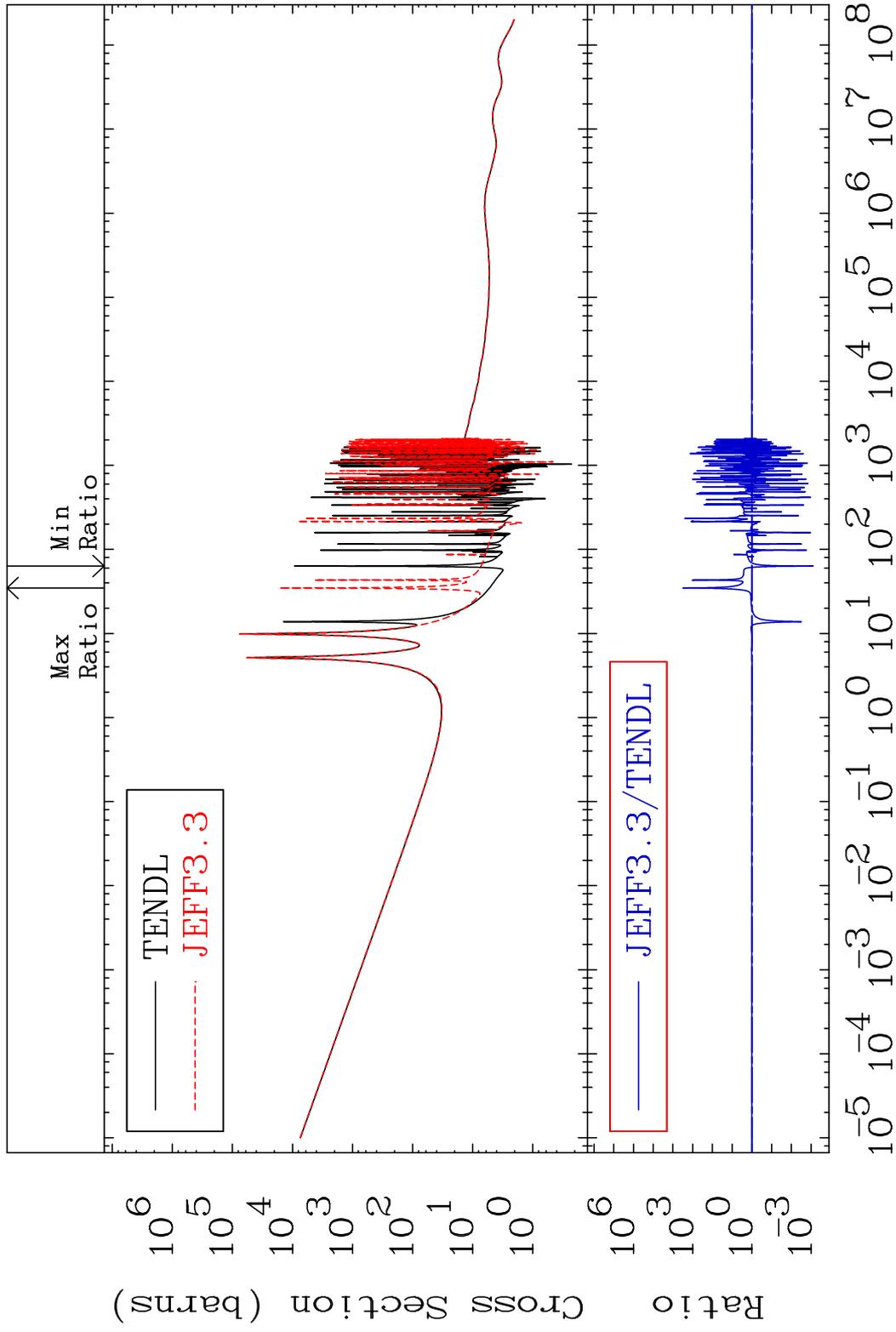
Press Mouse Button to Start

MAT 5425

54-Xe-124

Total

Cross Section -99.92 To 9999. %

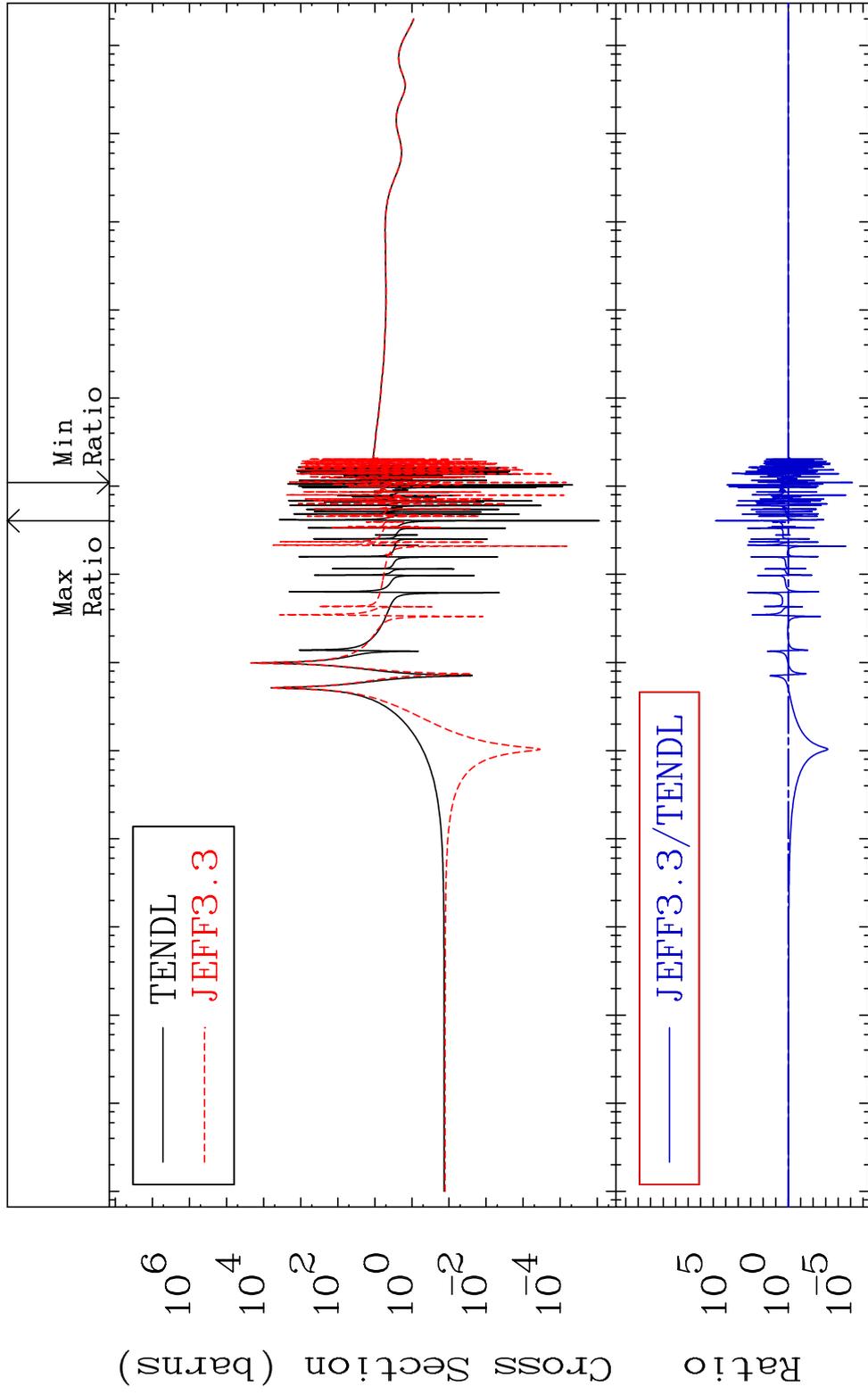


MAT 5425

Elastic

54-Xe-124

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

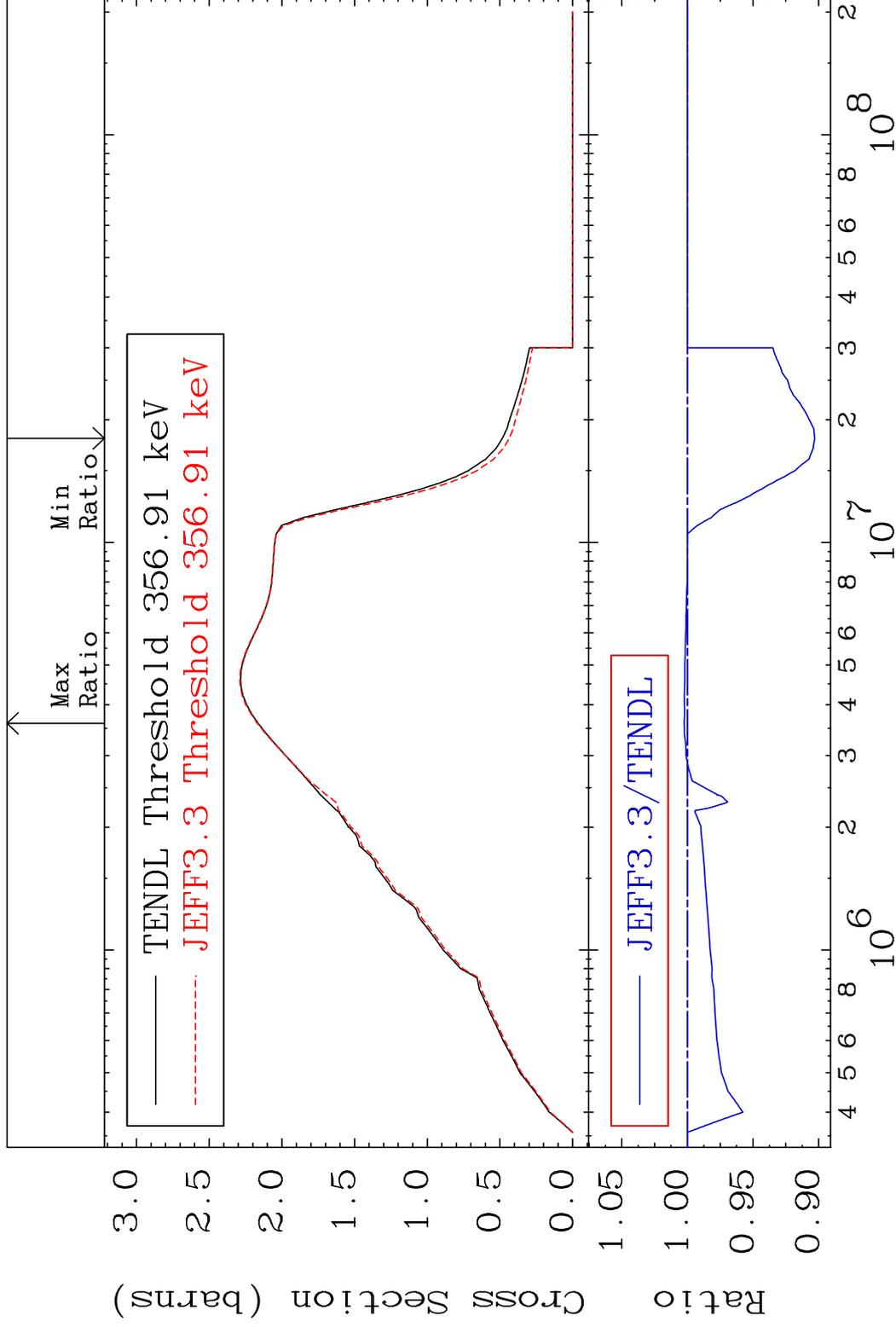
54-Xe-124

MAT 5425

Inelastic

54-Xe-124

Cross Section -9.704 To 0.249 %

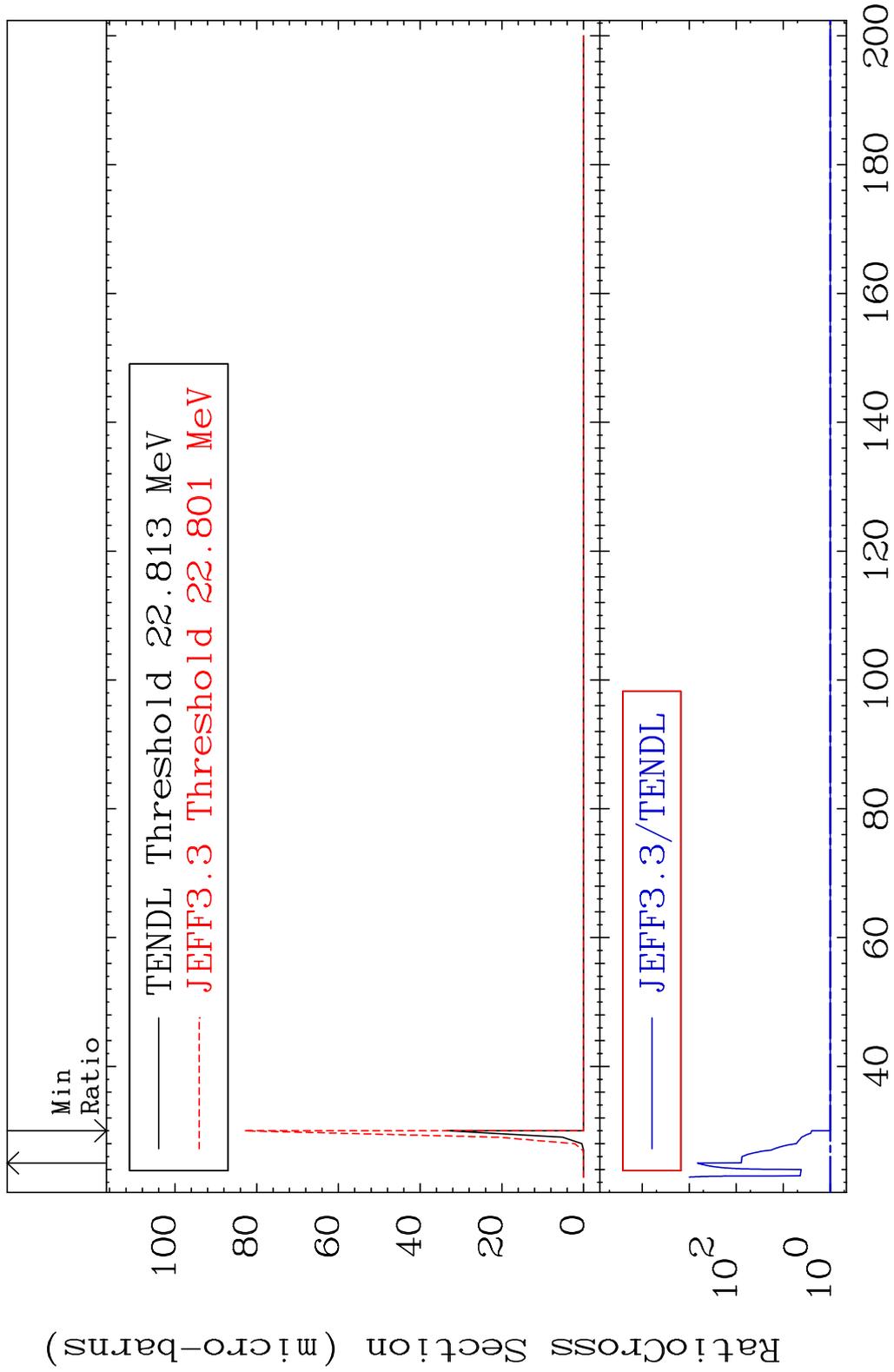


3

Incident Energy (eV)

54-Xe-124

MAT 5425 (n,2n) d 54-Xe-124  
 Cross Section 0.000 To 9999. %

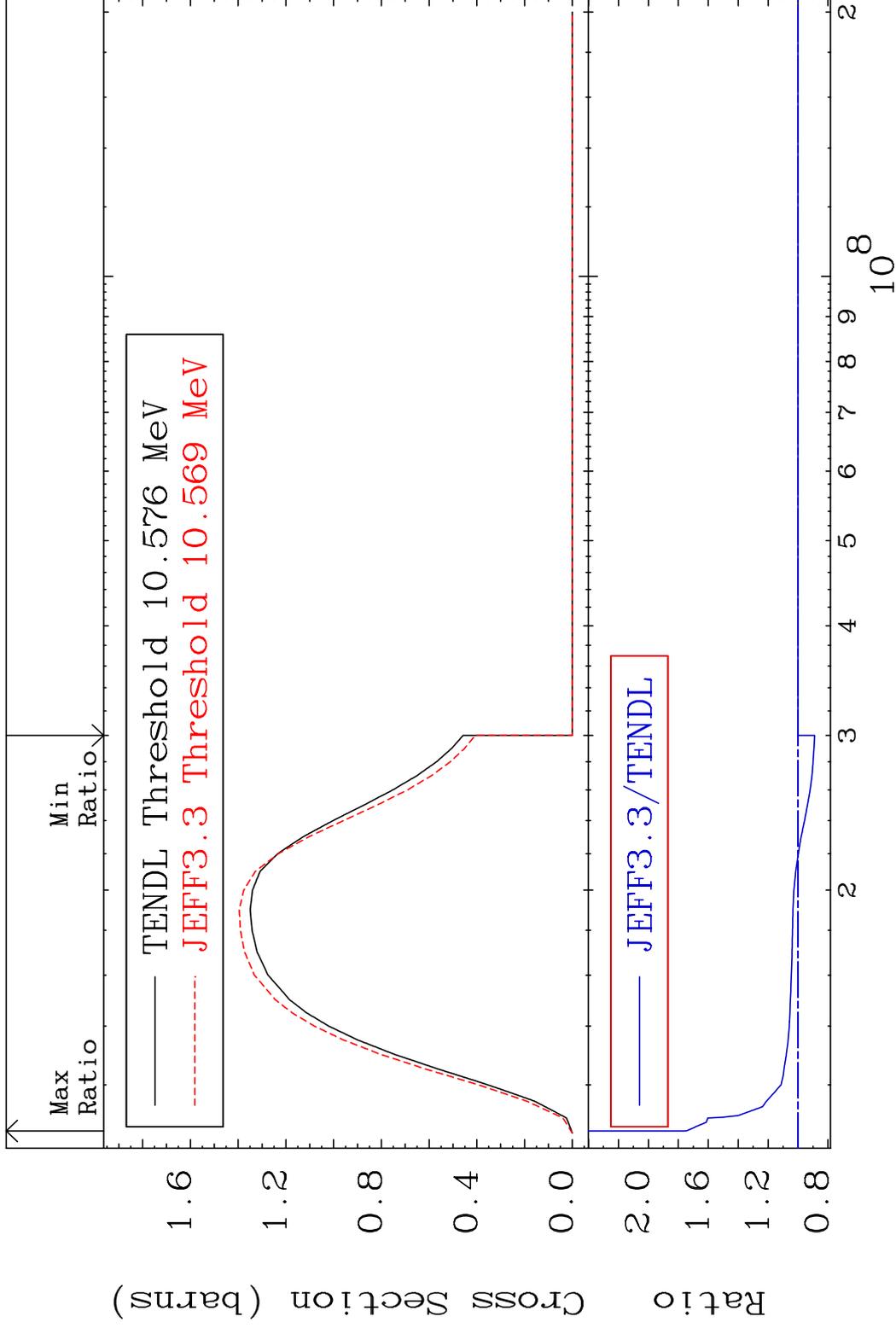


MAT 5425

(n,2n)

54-Xe-124

Cross Section -11.10 To 76.24 %



5

Incident Energy (eV)

54-Xe-124

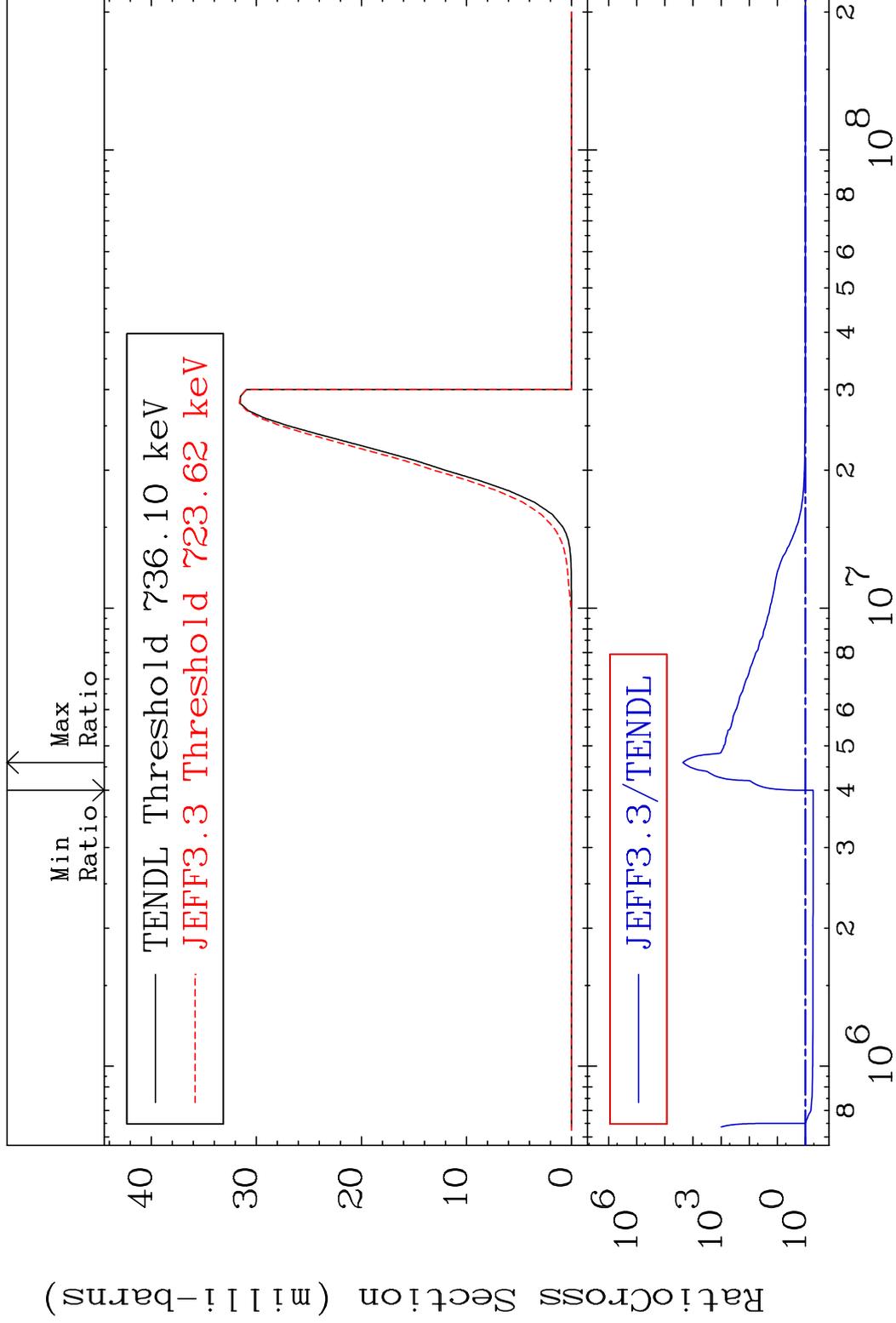


MAT 5425

(n, n')  $\alpha$

54-Xe-124

Cross Section -46.69 To 9999. %



7

Incident Energy (eV)

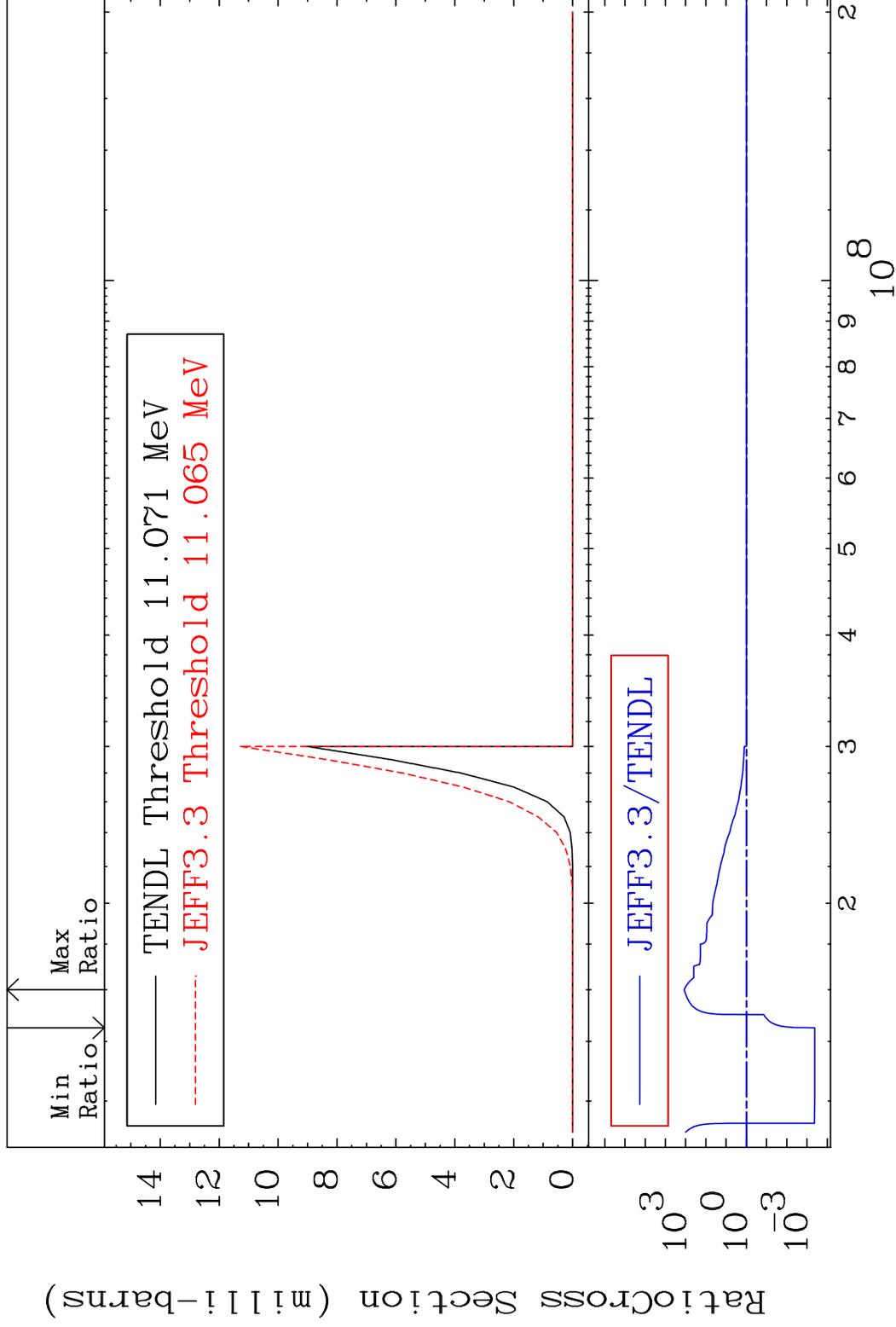
54-Xe-124

MAT 5425

(n,2n)  $\alpha$

54-Xe-124

Cross Section -99.96 To 9999. %



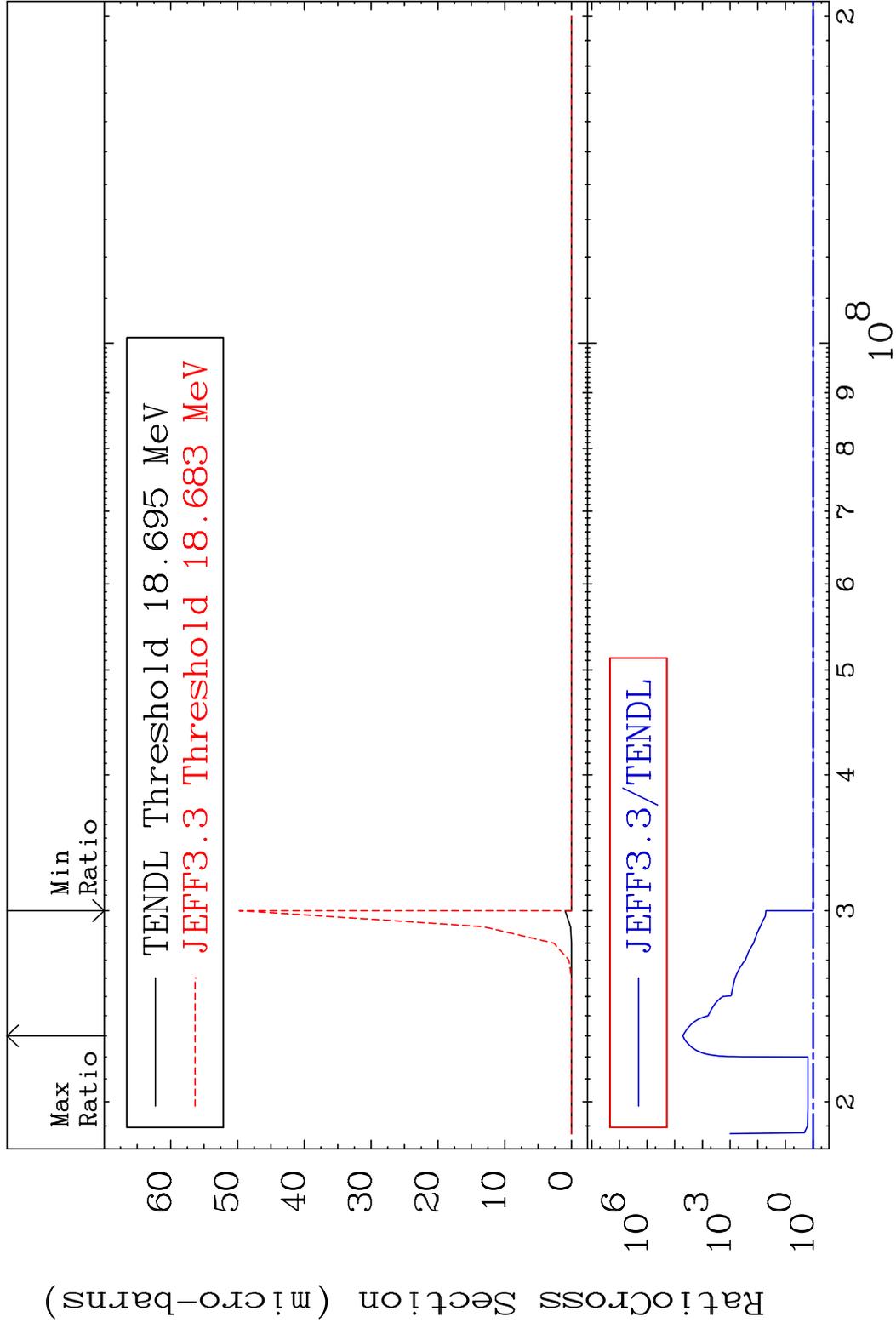
MAT 5425

(n,3n)  $\alpha$

54-Xe-124

Cross Section 0.000

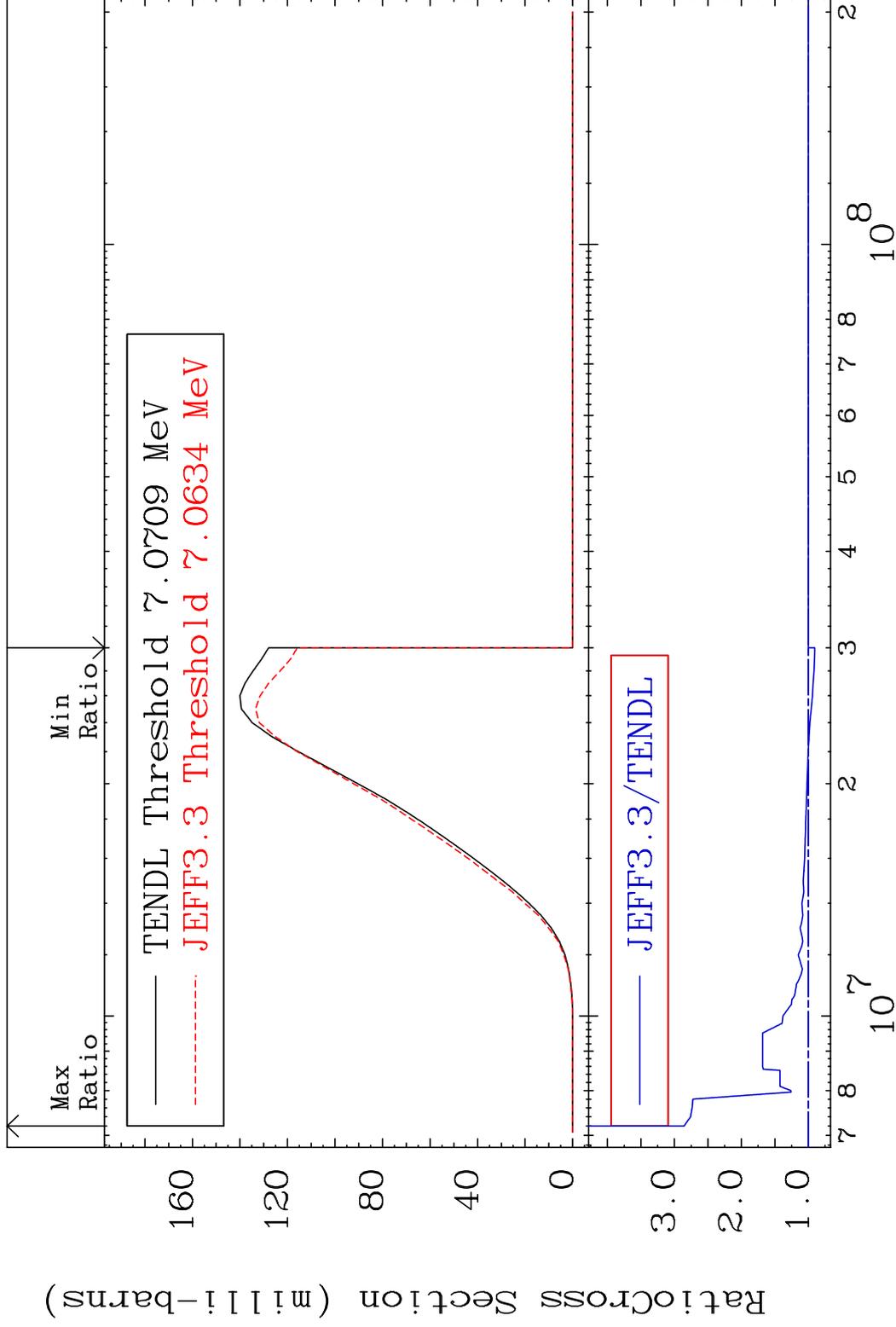
To 9999. %



MAT 5425

(n, n') p 54-Xe-124

Cross Section -9.425 To 185.5 %



10

Incident Energy (eV)

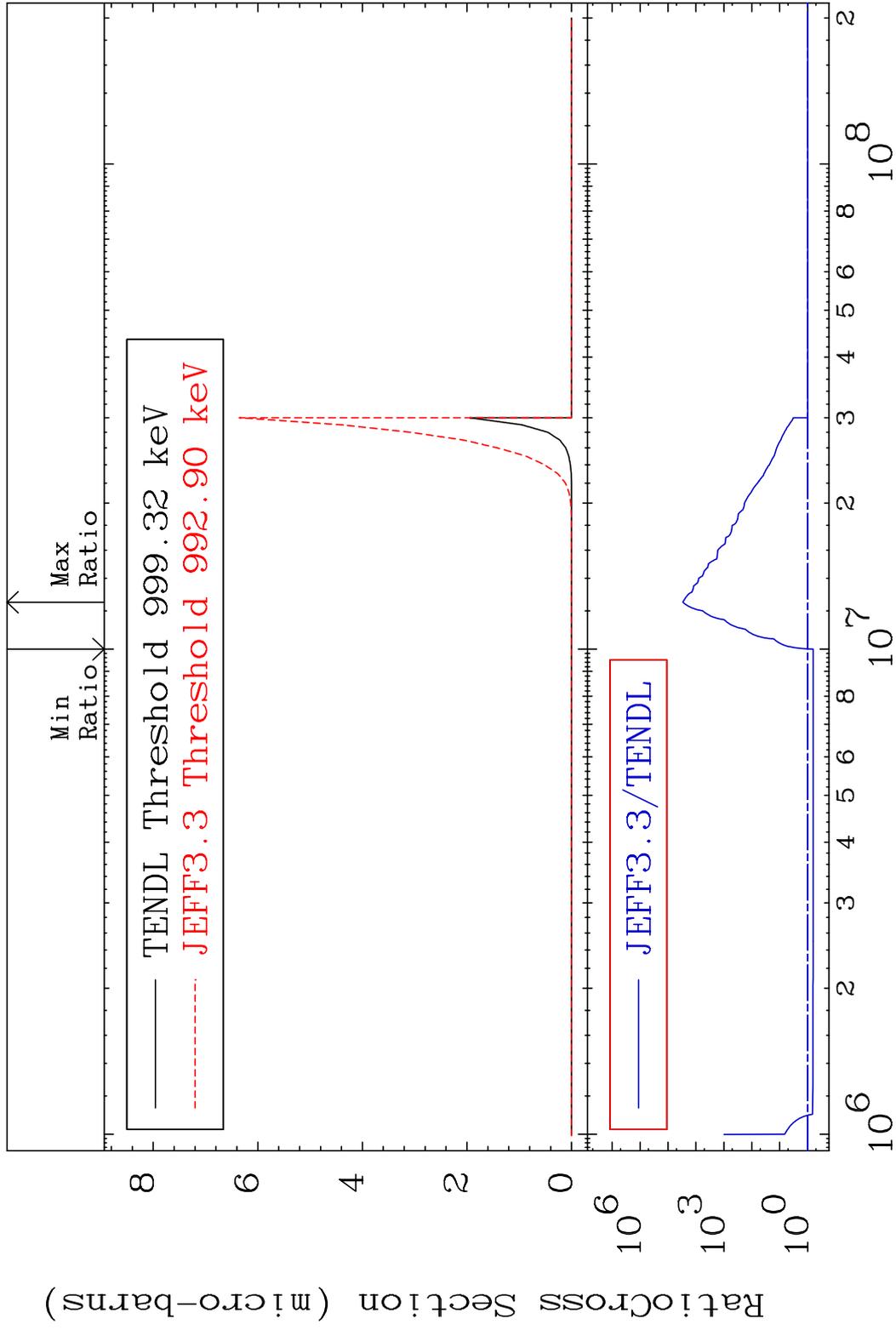
54-Xe-124

MAT 5425

(n, n') 2α

54-Xe-124

Cross Section -36.58 To 9999. %



11

Incident Energy (eV)

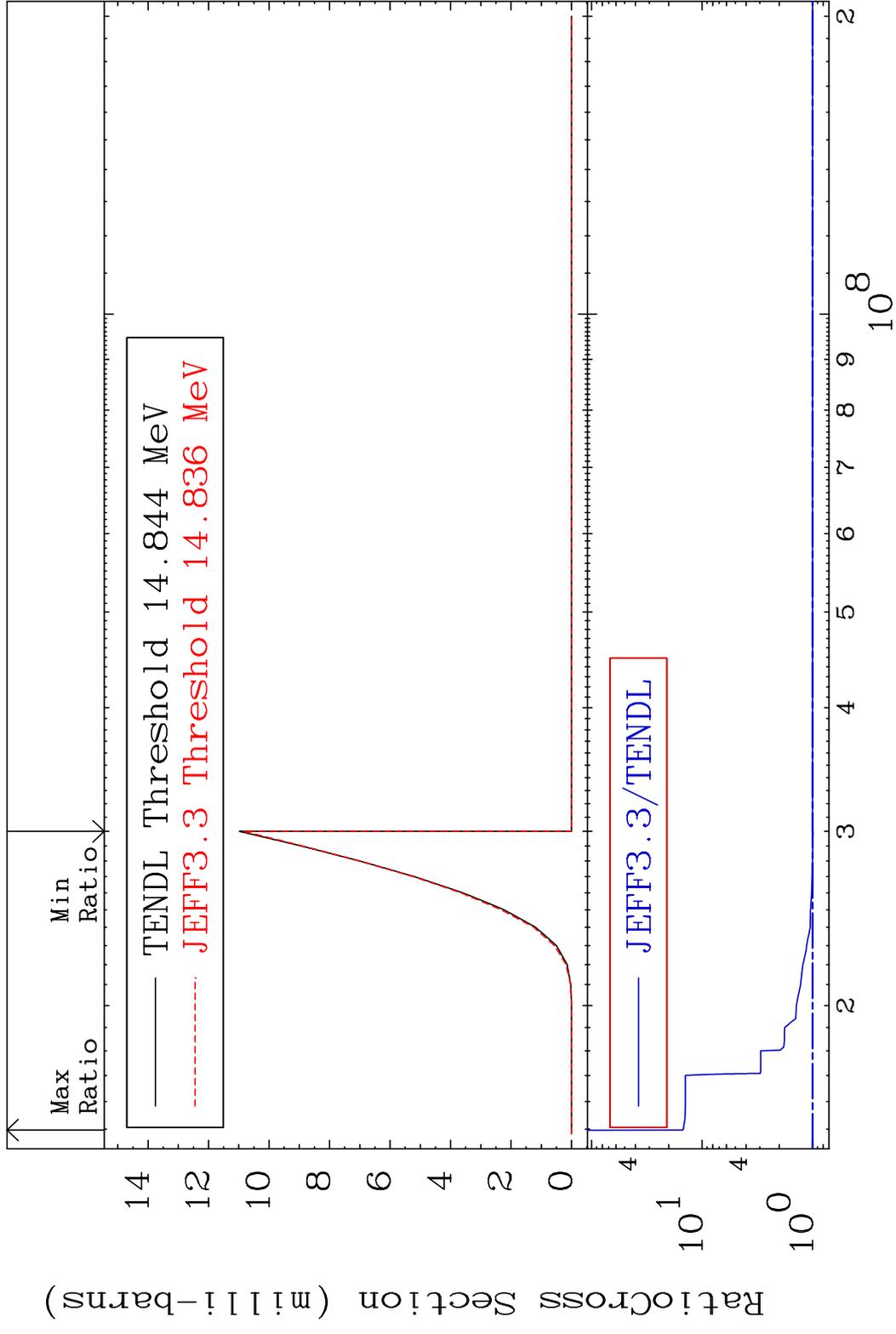
54-Xe-124

MAT 5425

(n, n') d

54-Xe-124

Cross Section -1.285 To 1391. %

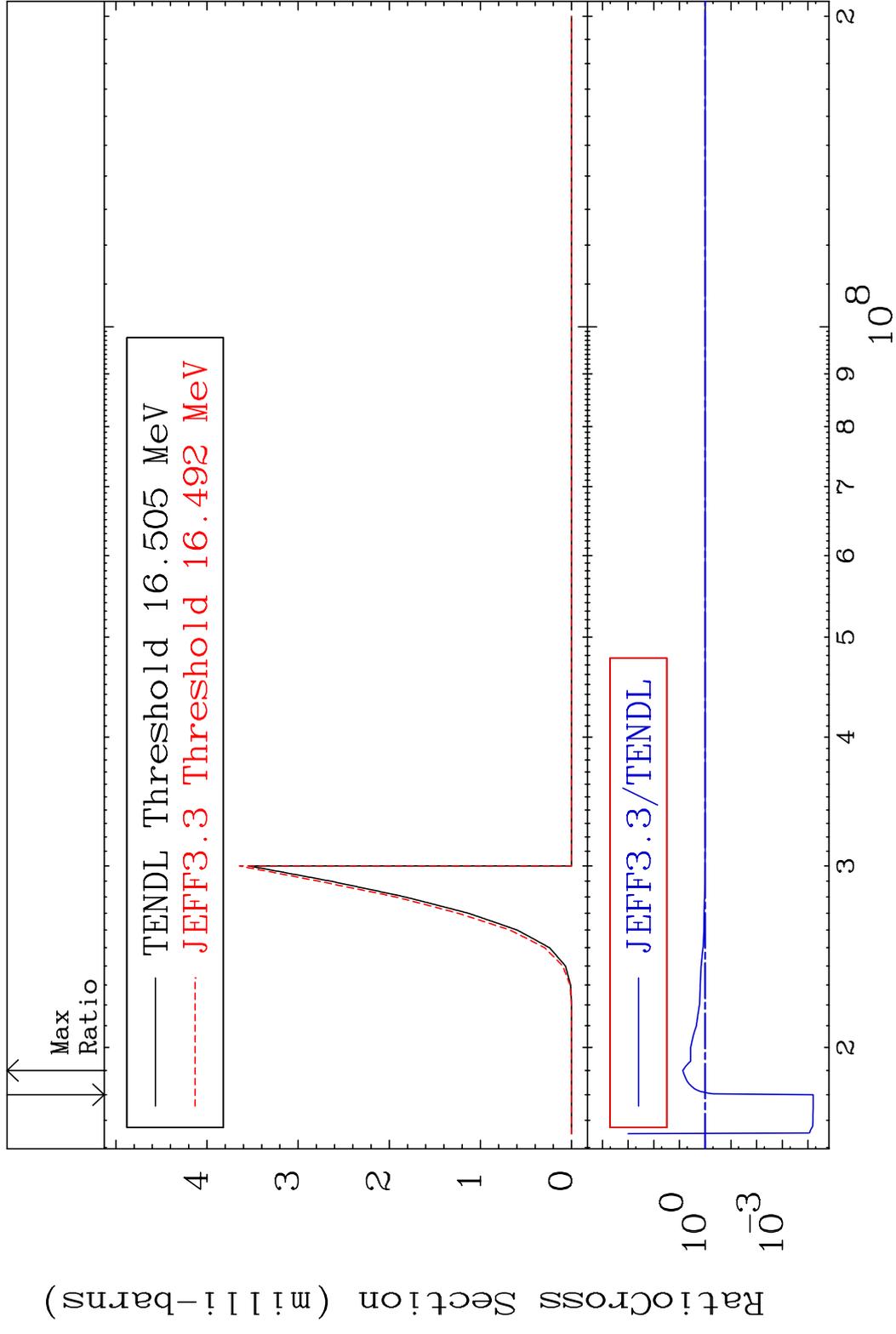


MAT 5425

(n, n') t

54-Xe-124

Cross Section -99.99 To 644.0 %



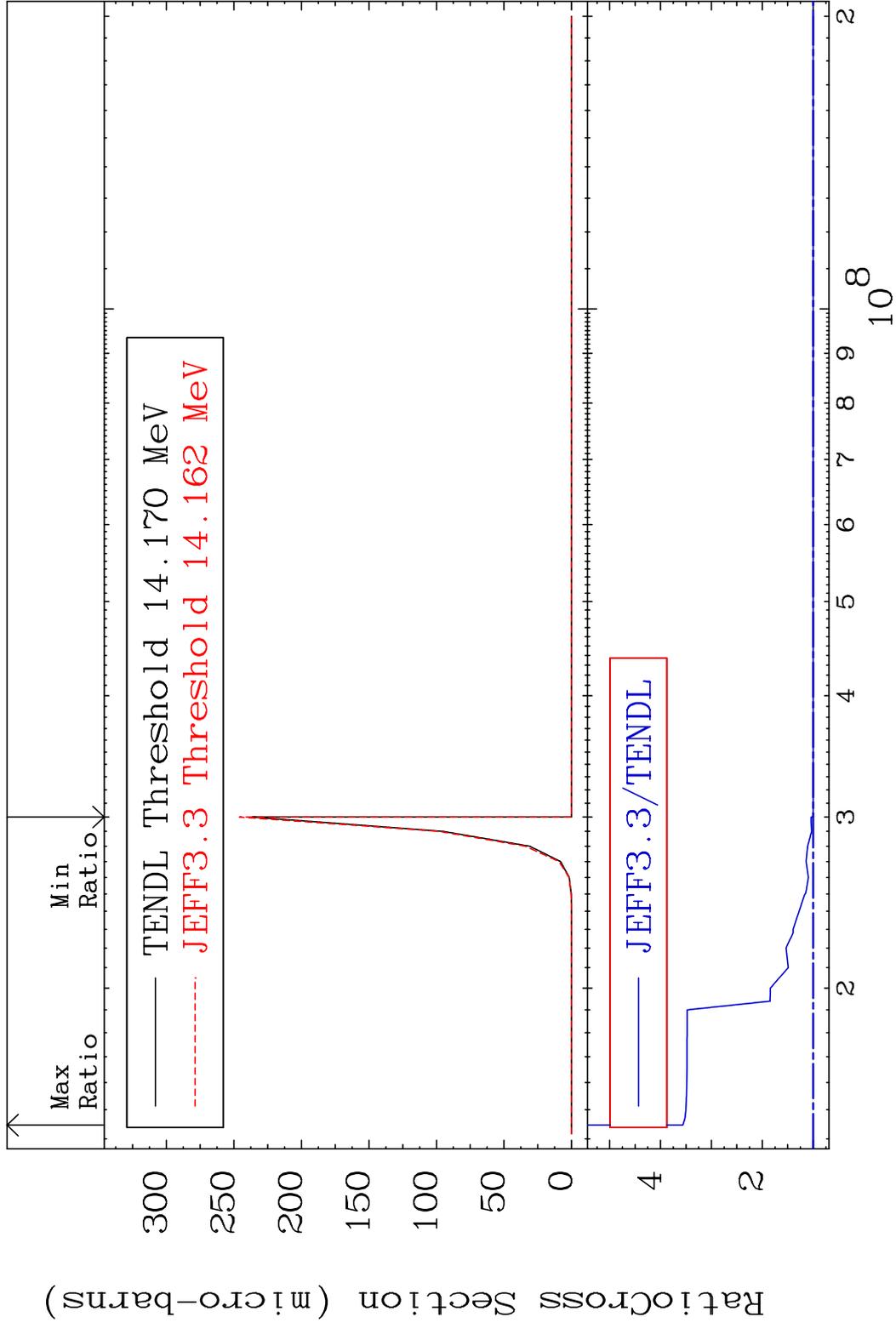
MAT 5425

(n,n') He-3

54-Xe-124

Cross Section 0.000

To 256.2 %



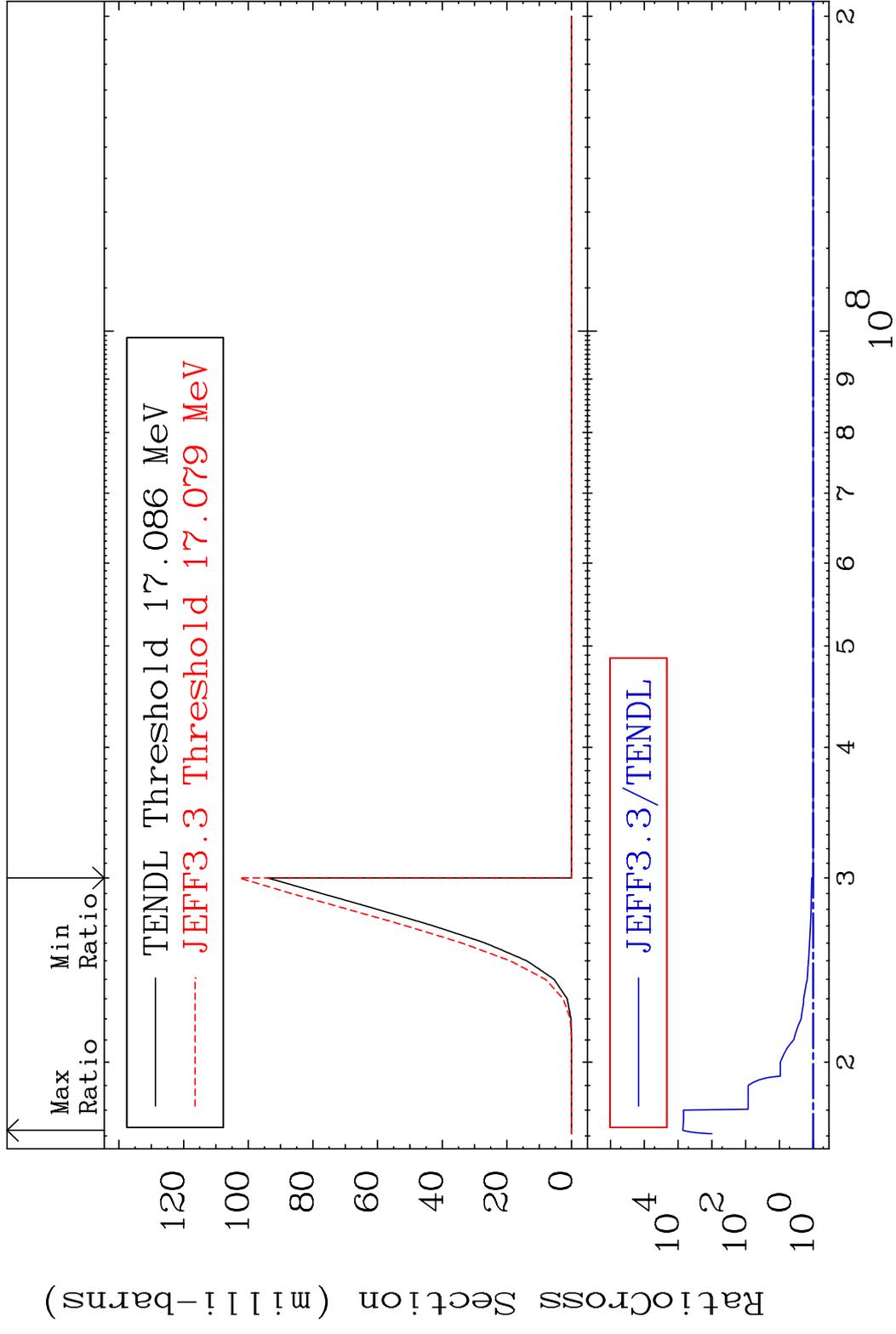
MAT 5425

(n,2n) p

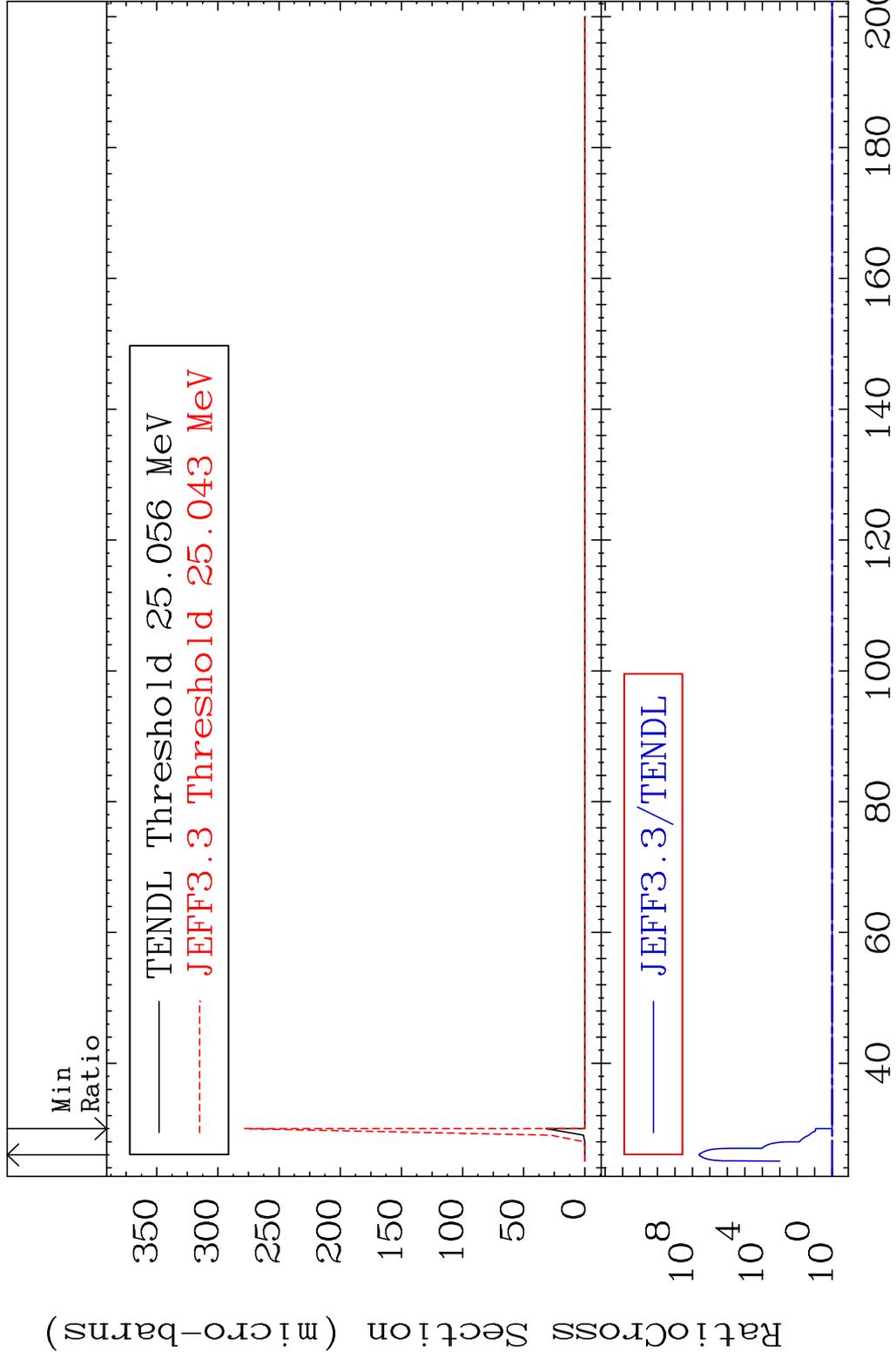
54-Xe-124

Cross Section 0.000

To 9999. %



MAT 5425 (n,3n) p 54-Xe-124  
 Cross Section 0.000 To 9999. %



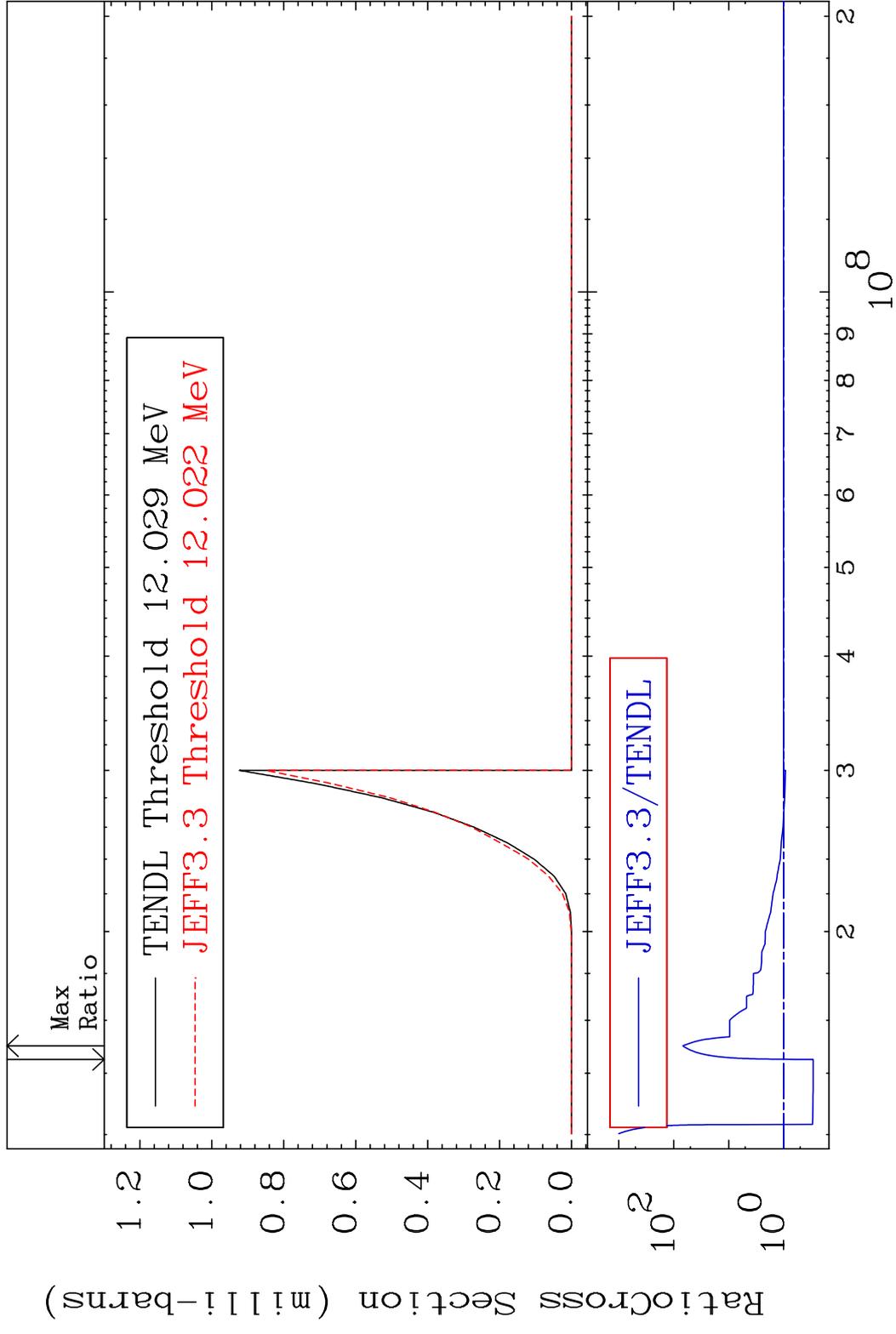
MAT 5425

(n,2n) p

54-Xe-124

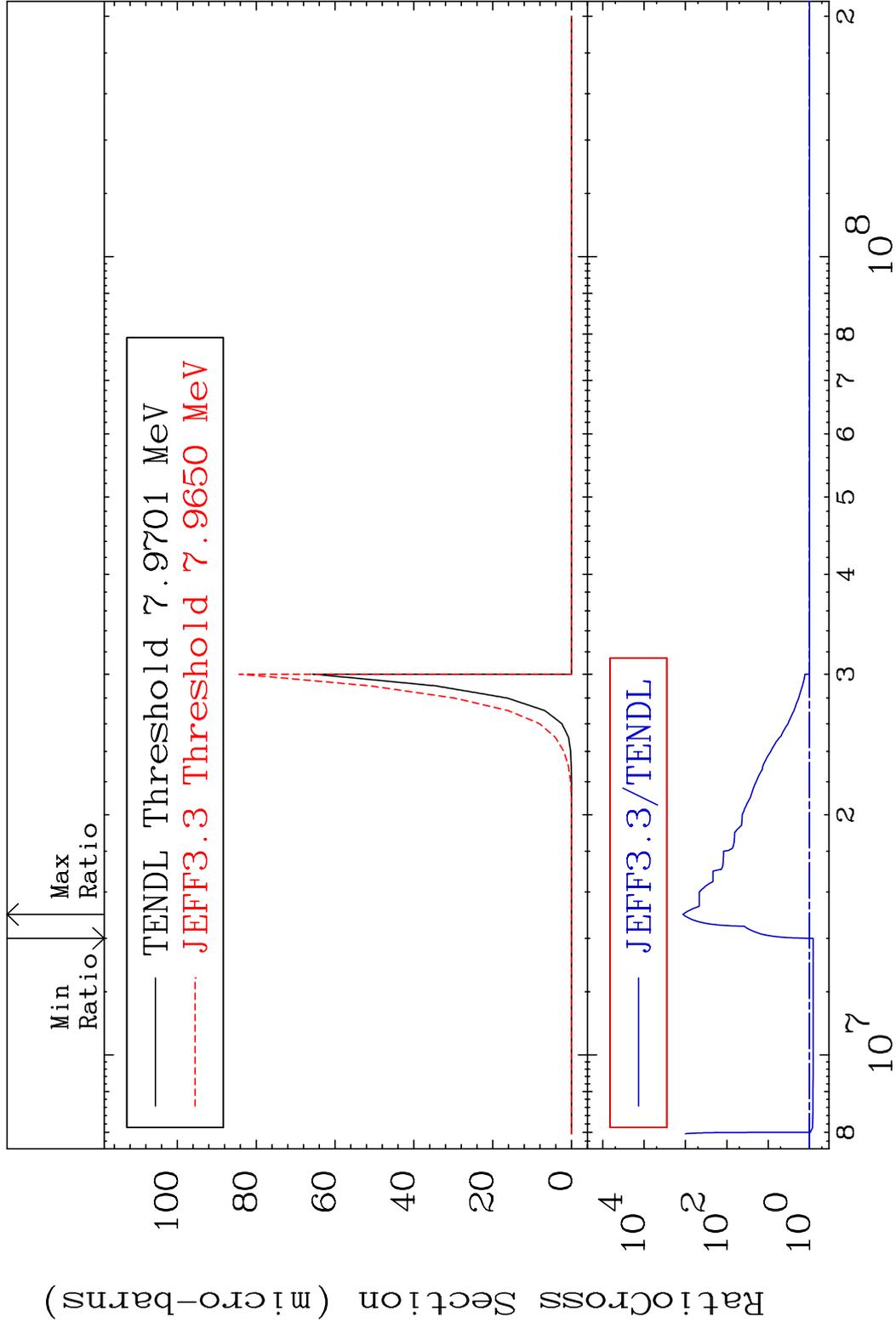
Cross Section

-70.99 To 6734. %



MAT 5425

(n,n') p  $\alpha$  54-Xe-124  
Cross Section -18.40 To 9999. %



18

Incident Energy (eV)

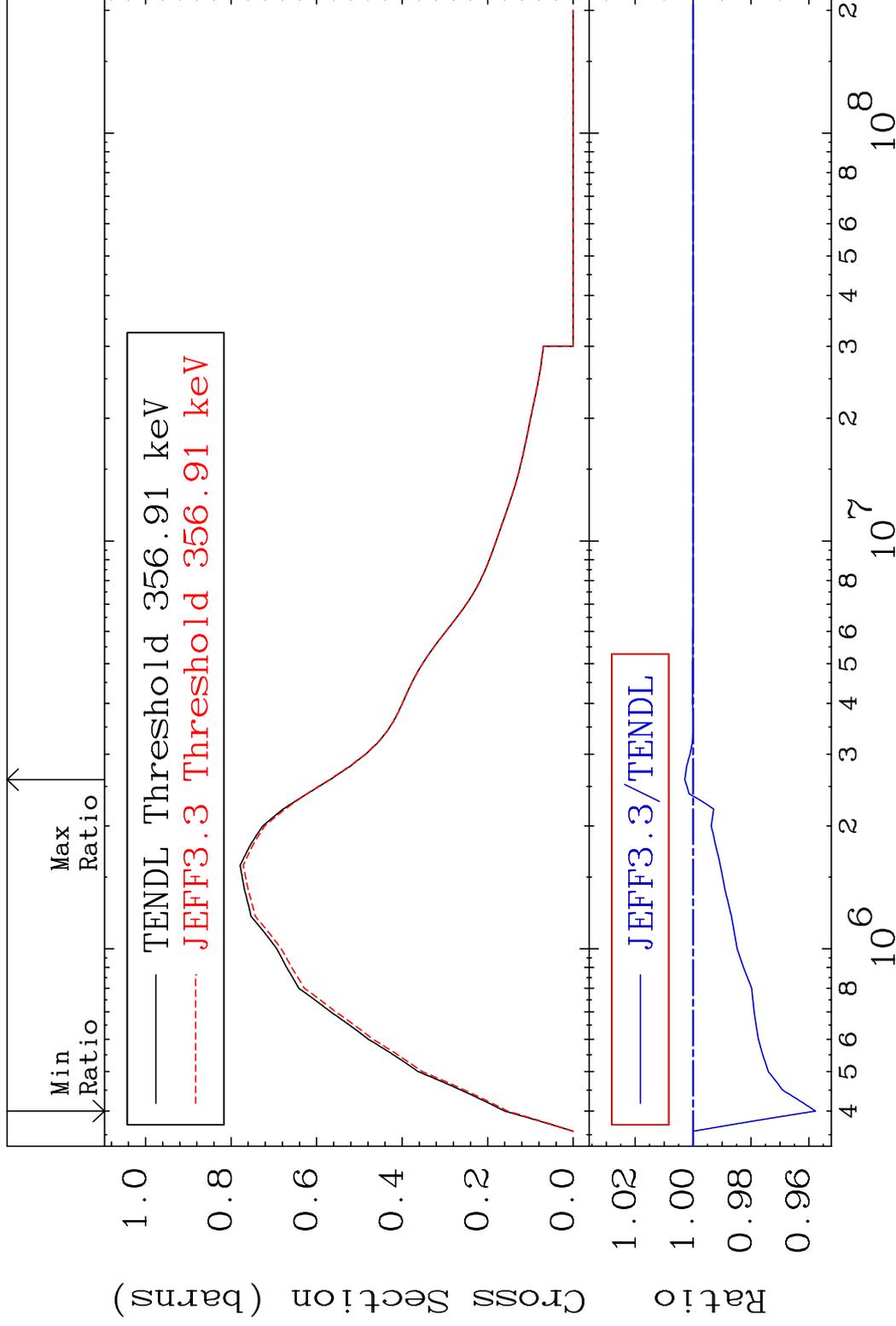
54-Xe-124

MAT 5425

MT= 51 (n, n') Level

54-Xe-124

Cross Section -4.228 To 0.287 %

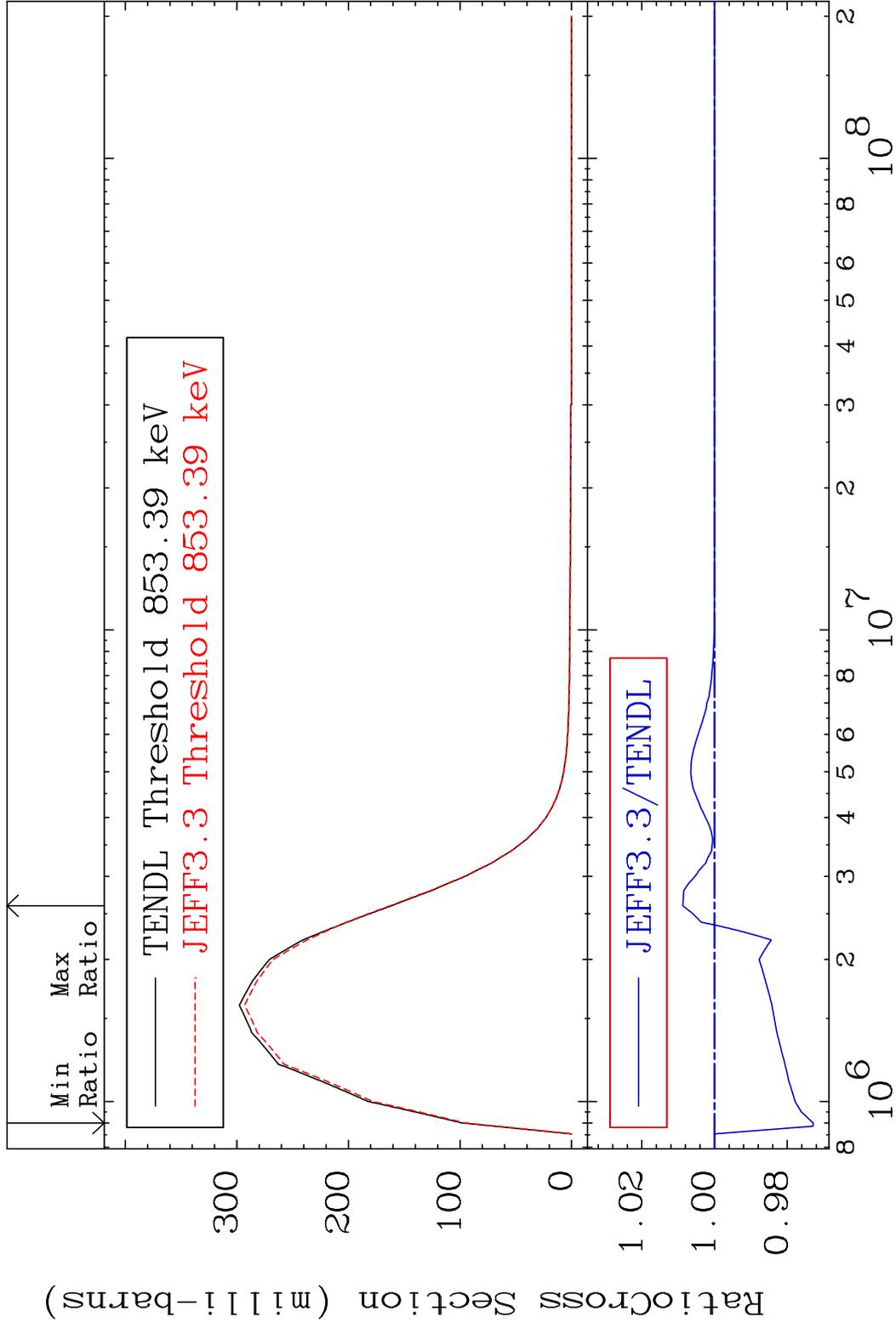


MAT 5425

MT= 52 (n, n') Level

54-Xe-124

Cross Section -2.712 To 0.873 %

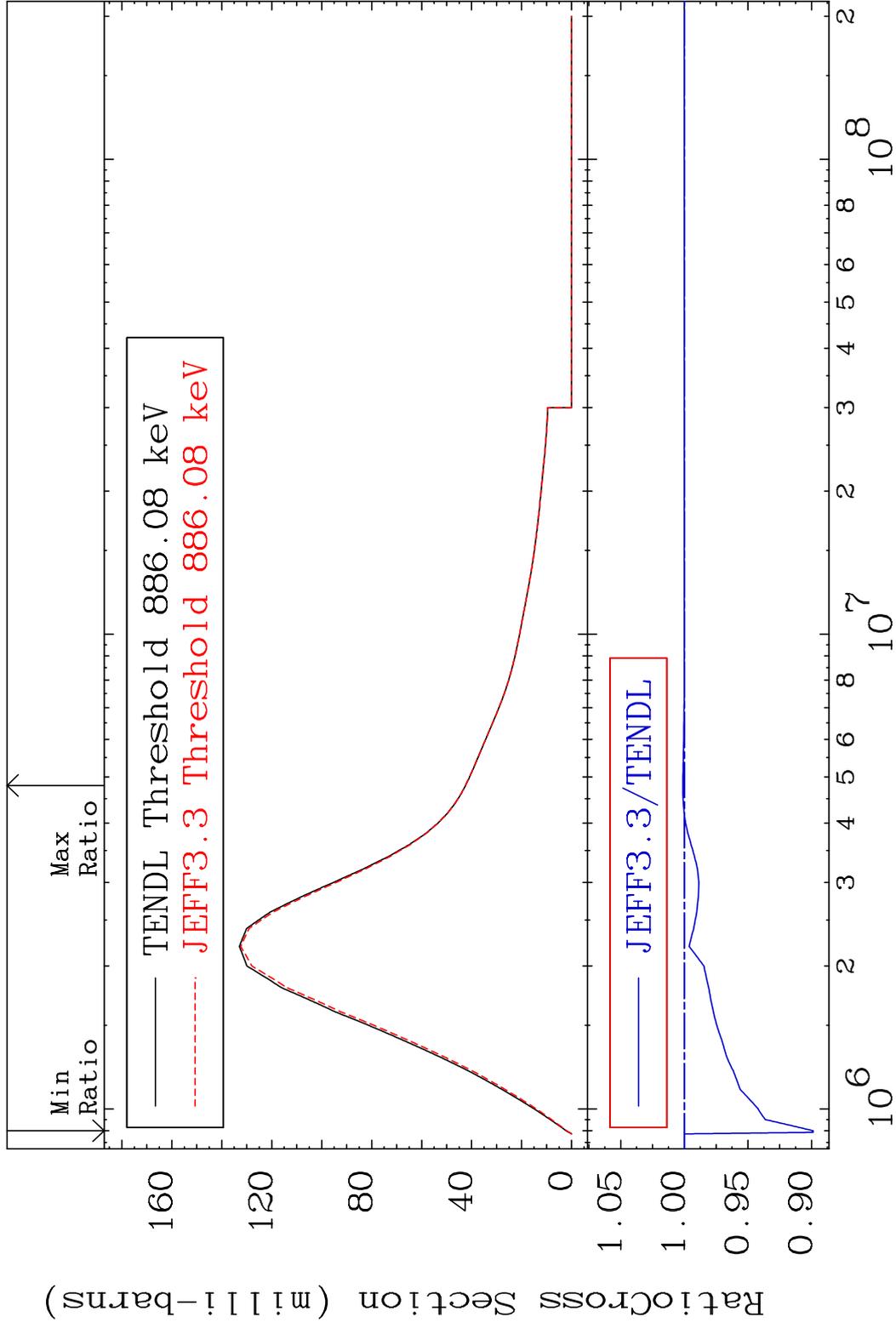


20

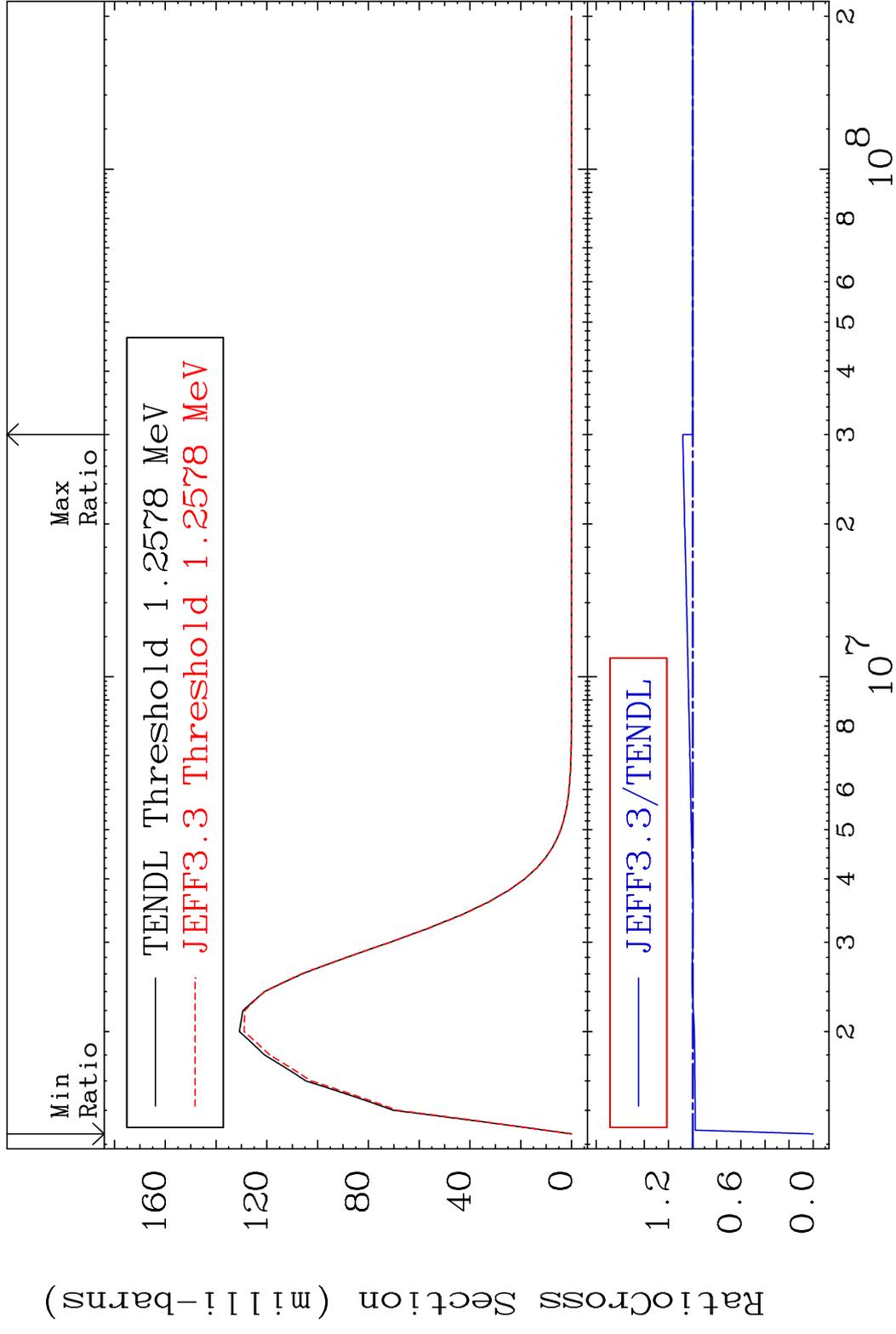
Incident Energy (eV)

54-Xe-124

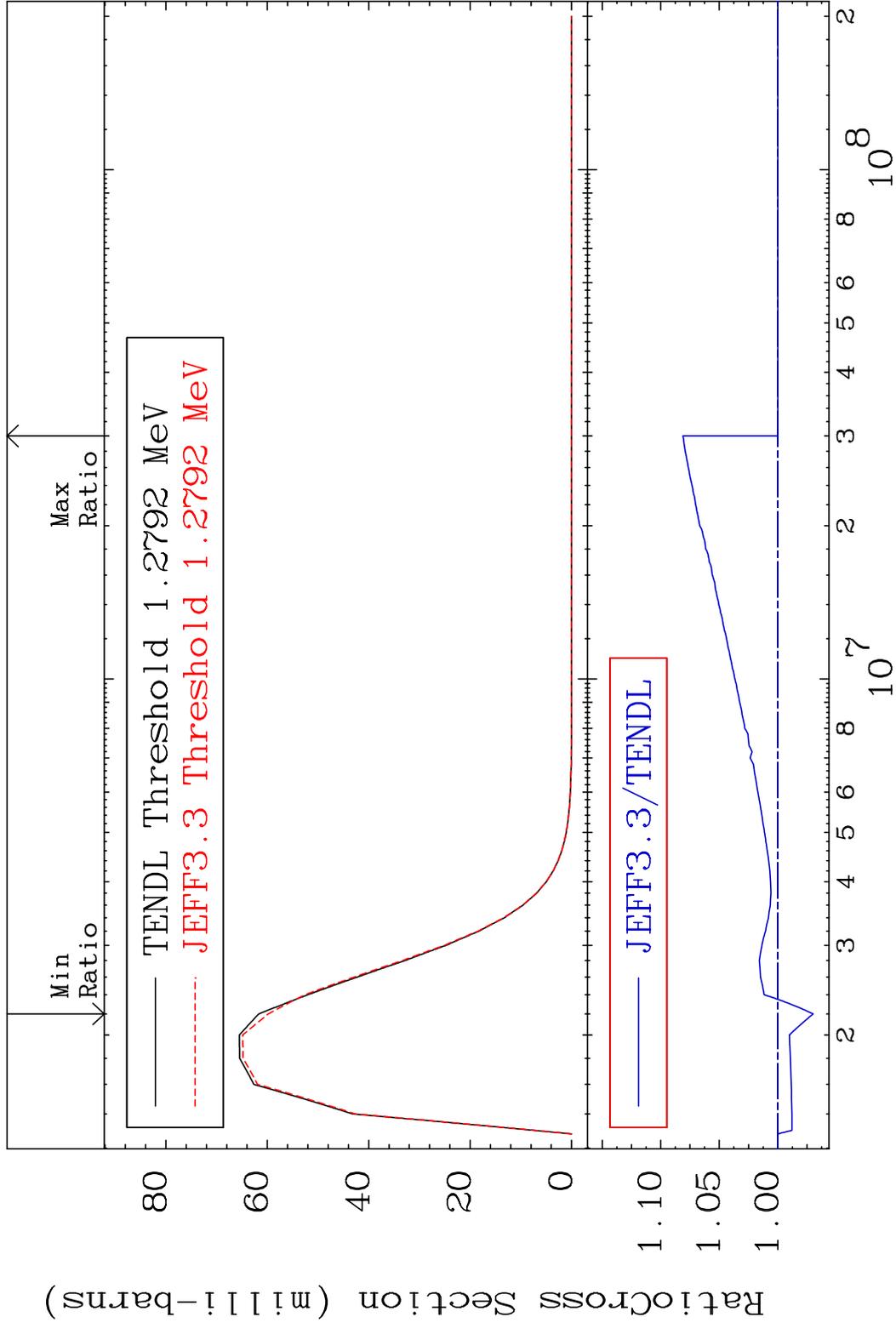
MAT 5425 MT= 53 (n, n') Level 54-Xe-124  
 Cross Section -10.13 To 0.116 %



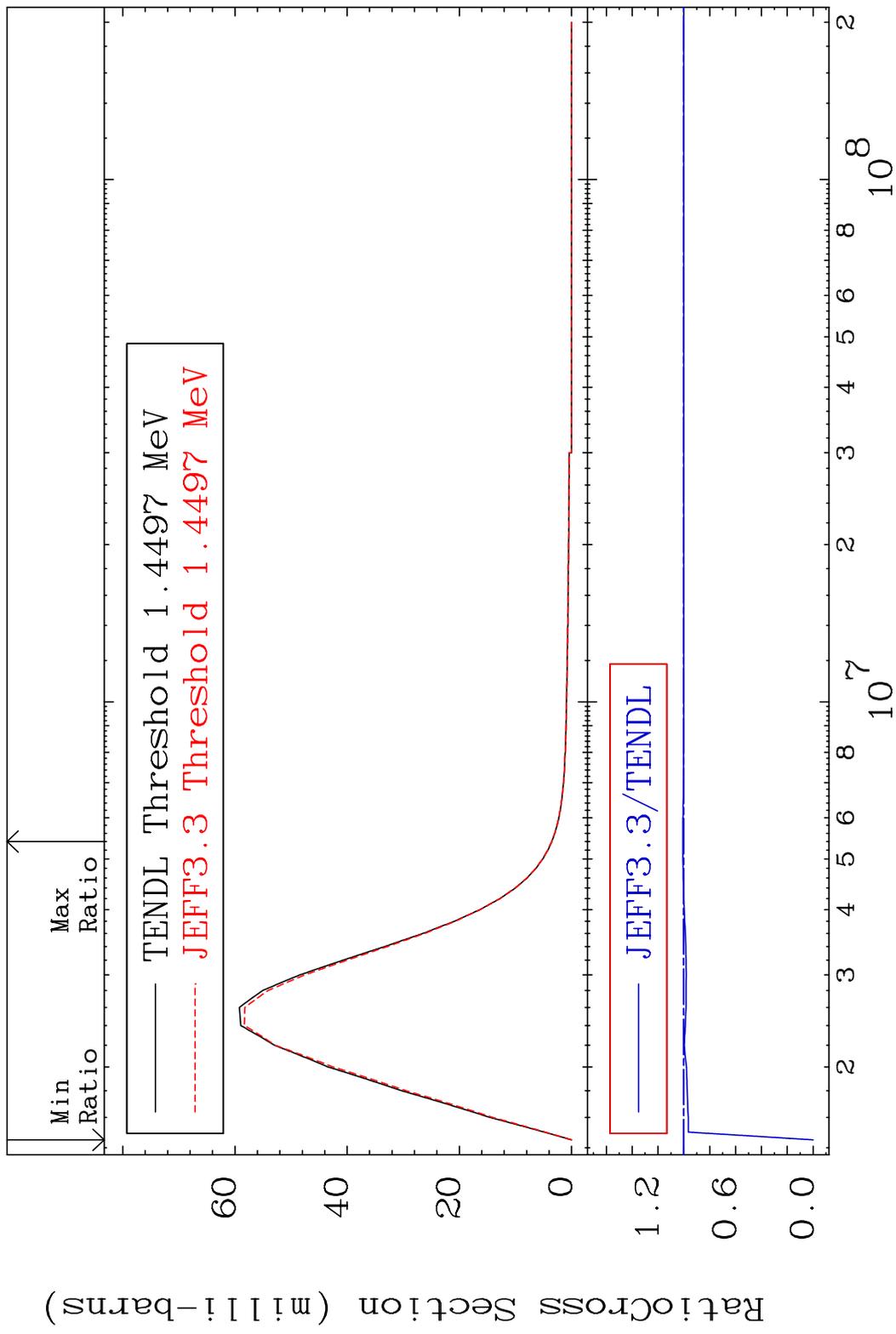
MAT 5425 MT= 54 (n,n') Level 54-Xe-124  
 Cross Section -100.0 To 8.112 %



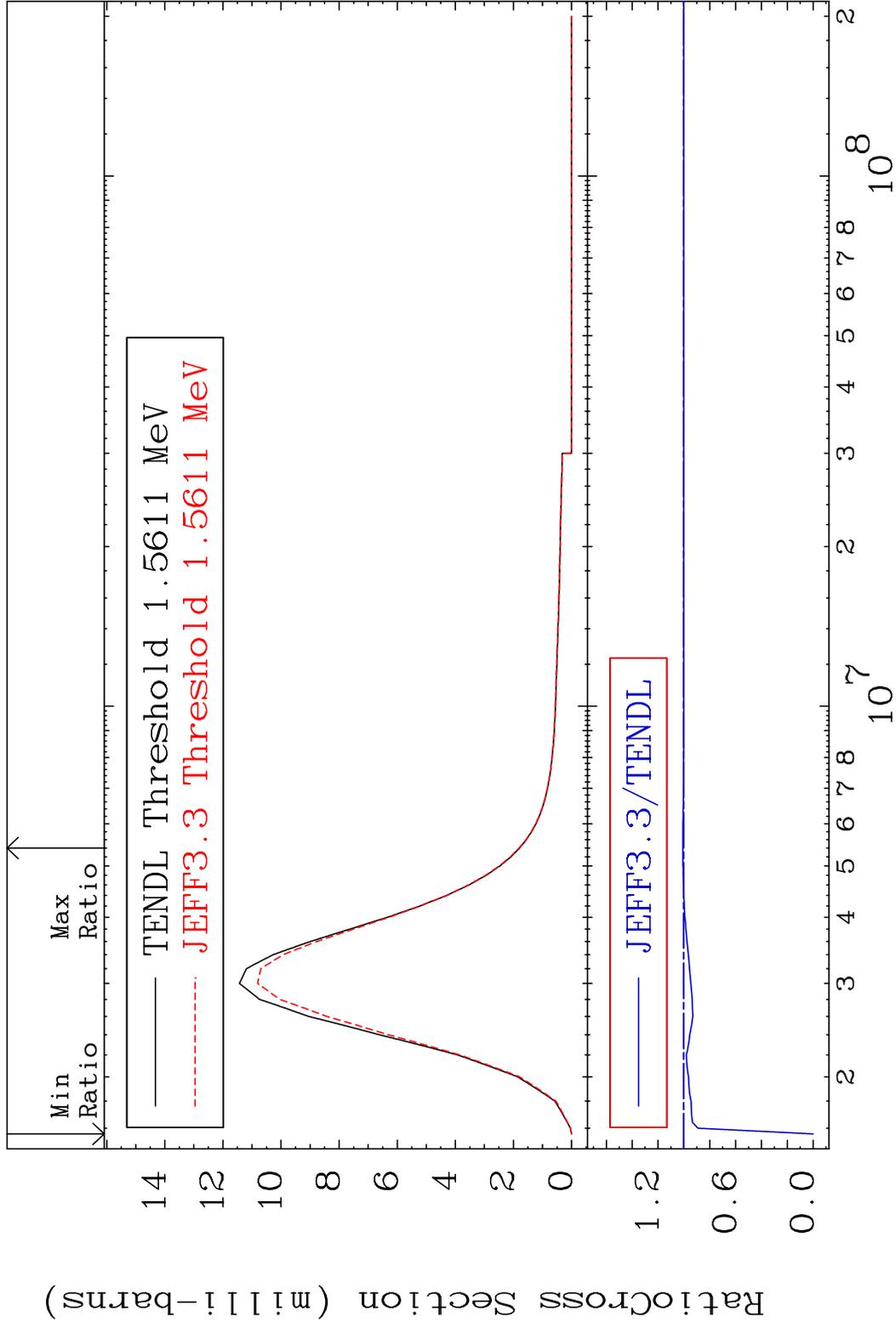
MAT 5425 MT= 55 (n,n') Level 54-Xe-124  
 Cross Section -3.029 To 8.116 %



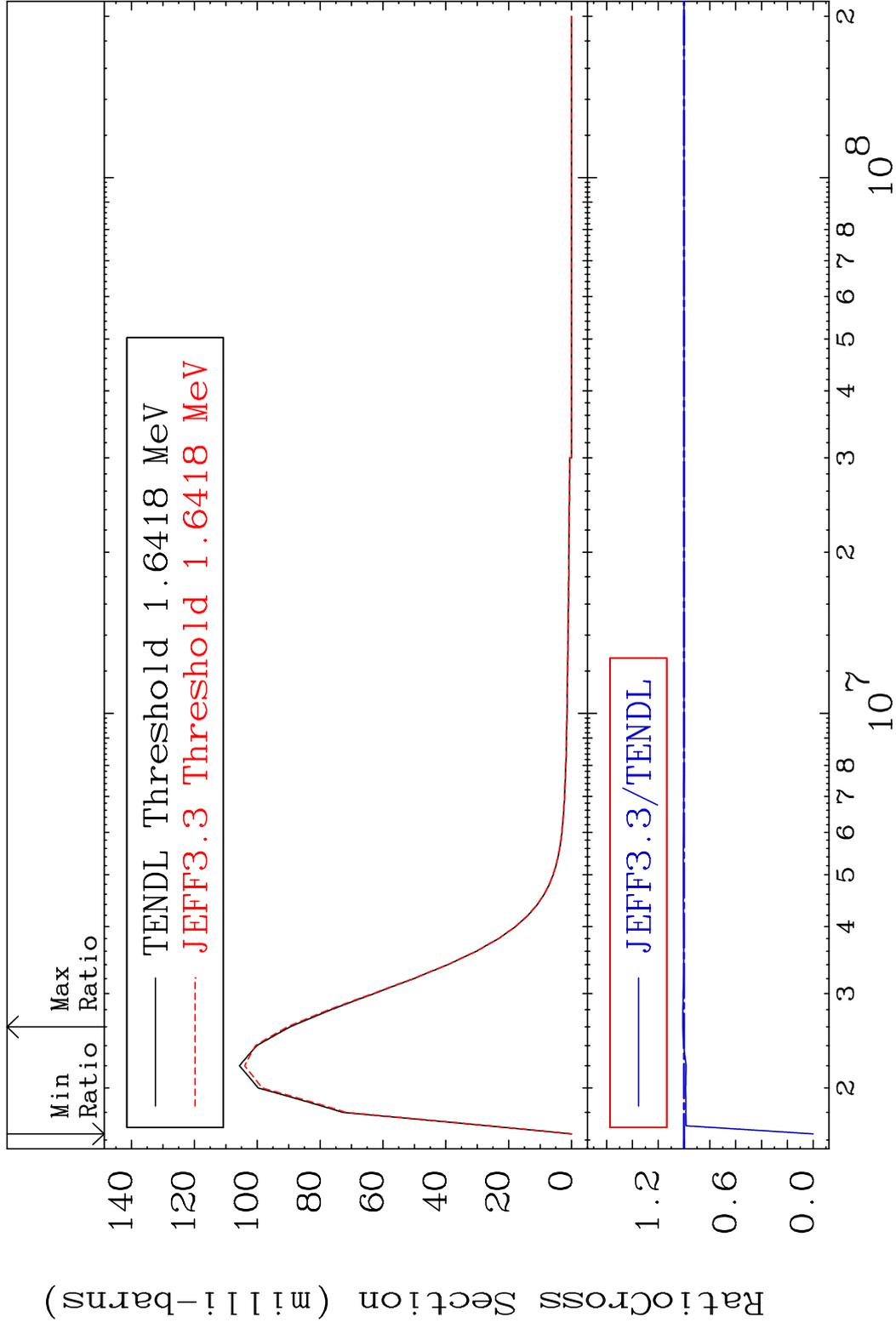
MAT 5425 MT= 56 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 0.799 %



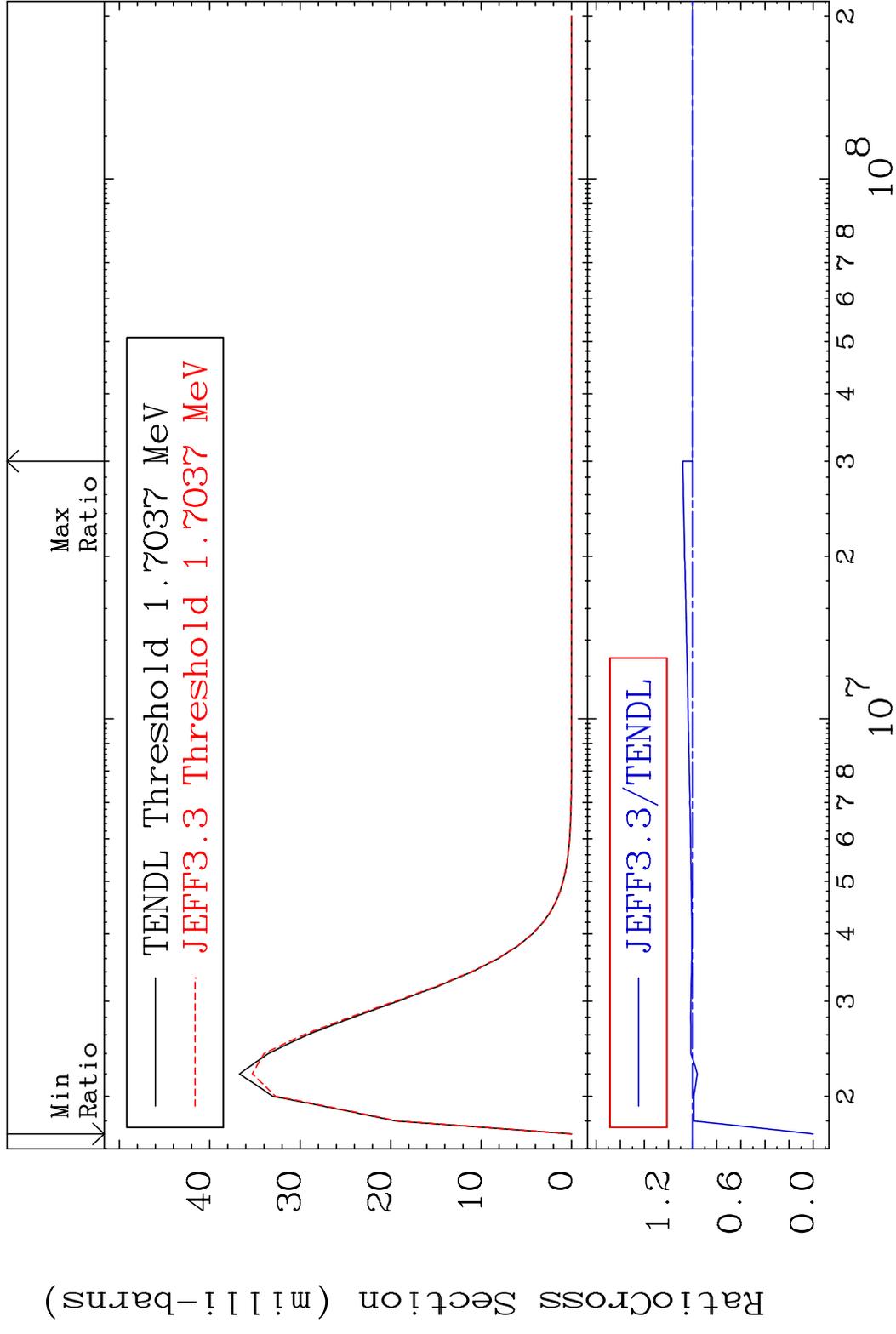
MAT 5425 MT= 57 (n,n') Level 54-Xe-124  
 Cross Section -100.0 To 0.806 %



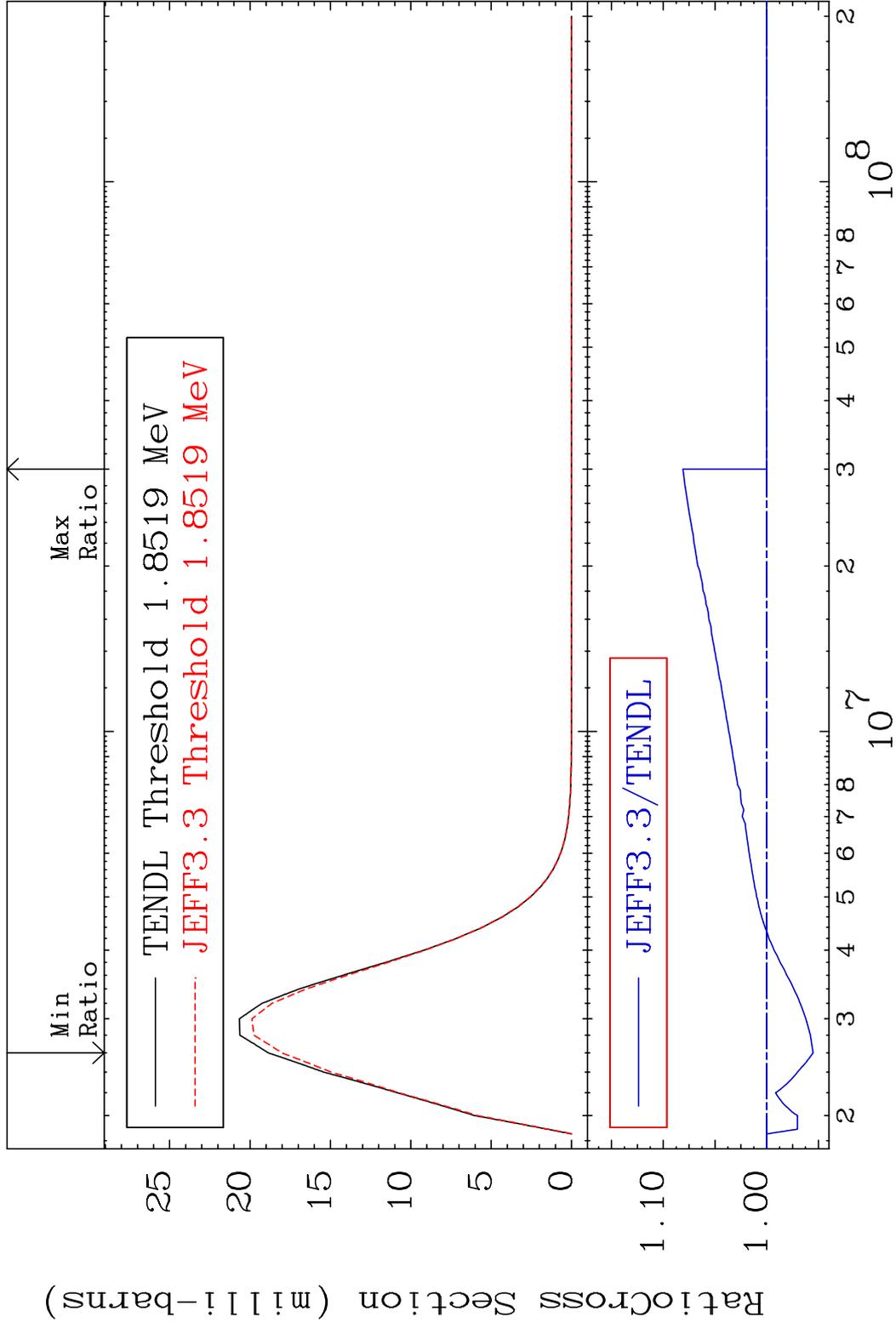
MAT 5425 MT= 58 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 0.959 %



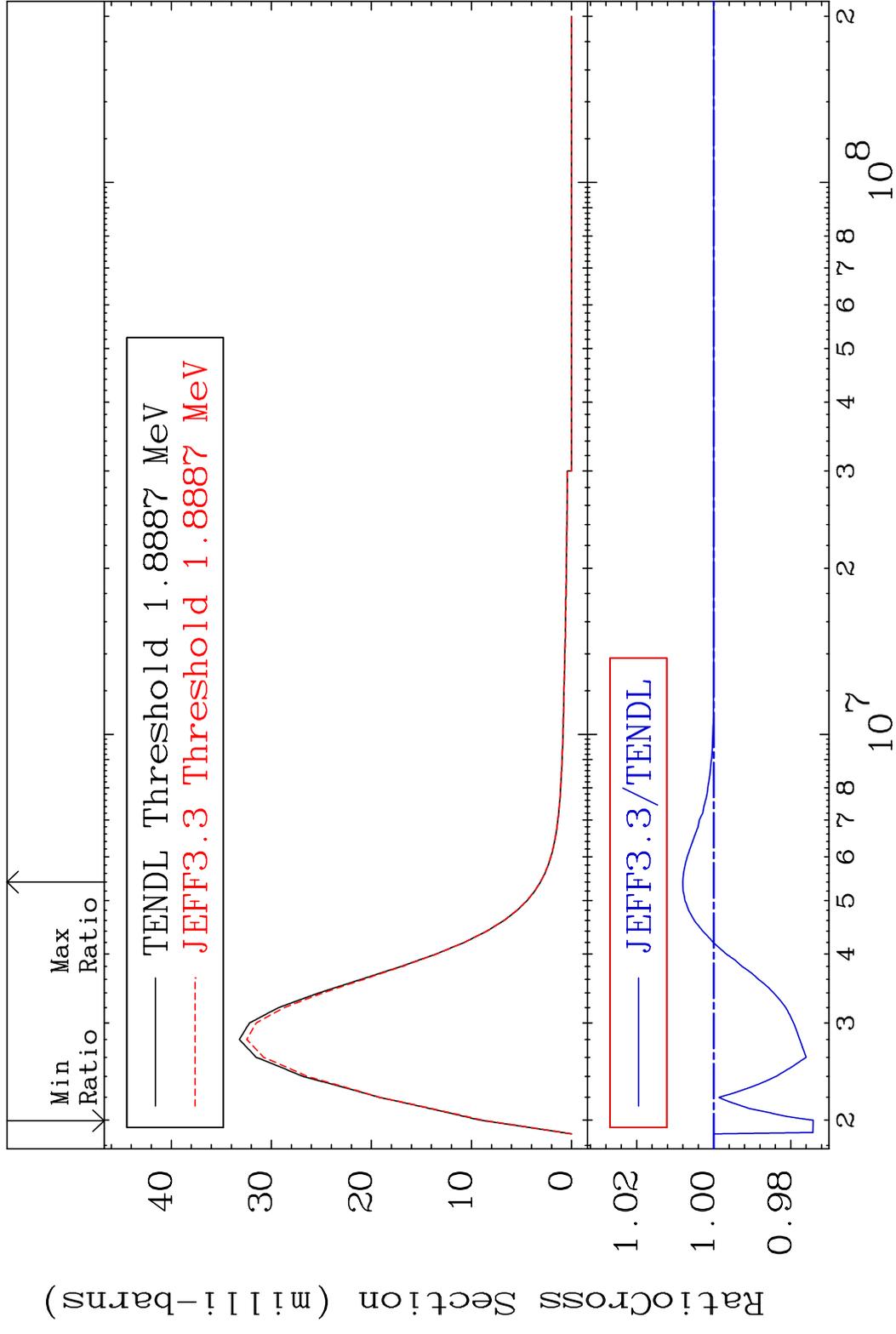
MAT 5425 MT= 59 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 8.116 %



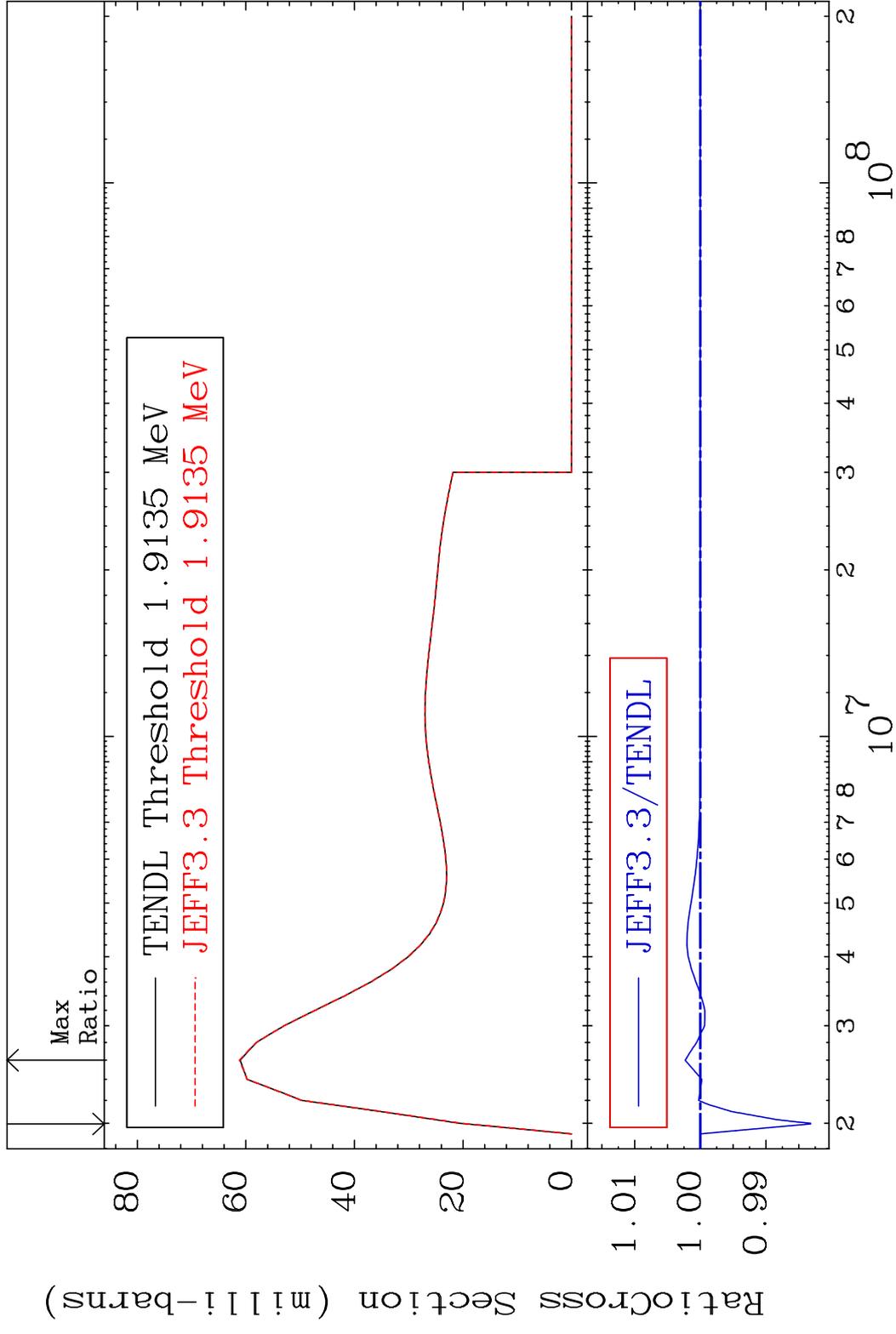
MAT 5425 MT= 60 (n, n') Level 54-Xe-124  
 Cross Section -4.485 To 8.105 %



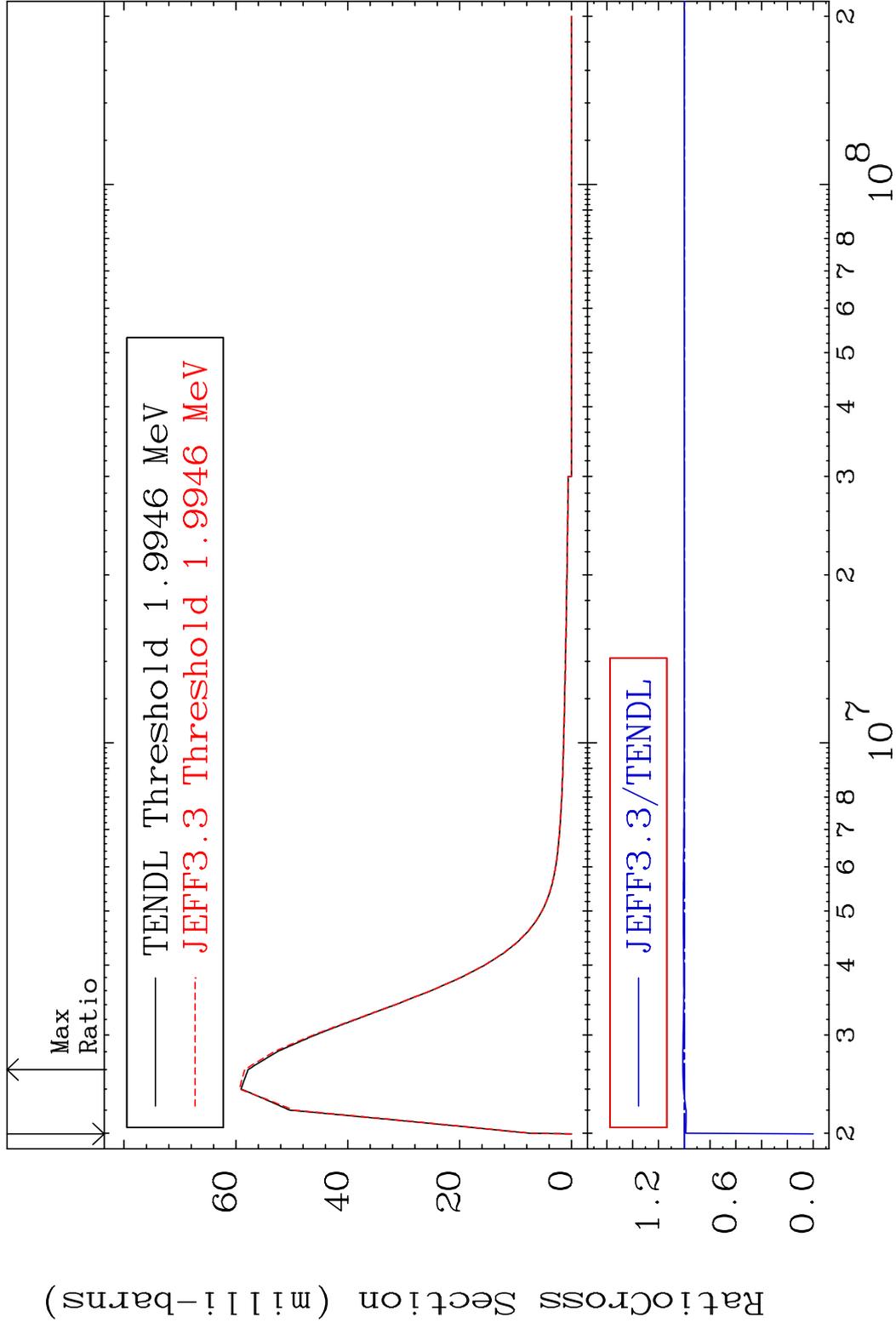
MAT 5425 MT= 61 (n, n') Level 54-Xe-124  
 Cross Section -2.581 To 0.803 %



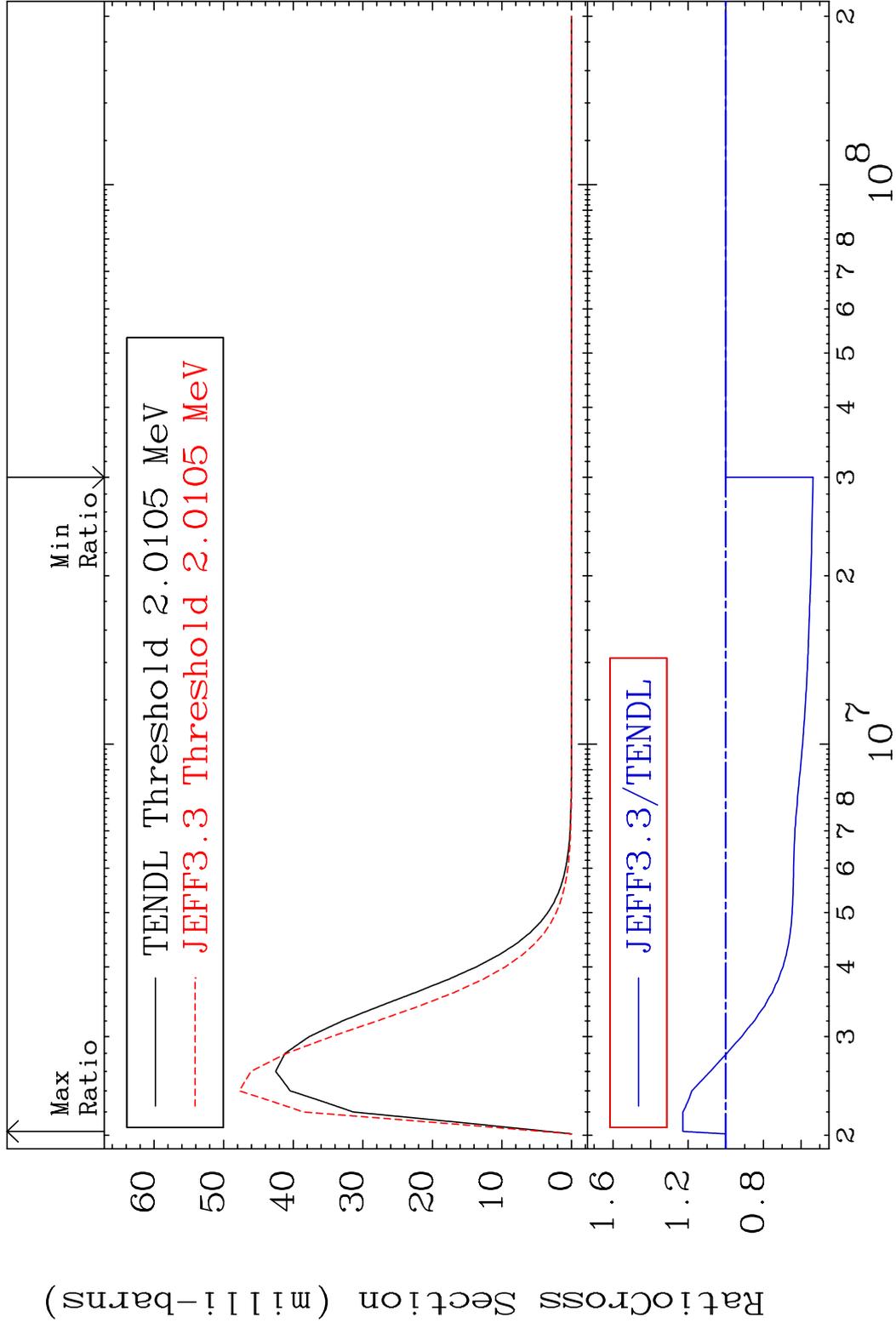
MAT 5425 MT= 62 (n,n') Level 54-Xe-124  
 Cross Section -1.683 To 0.230 %



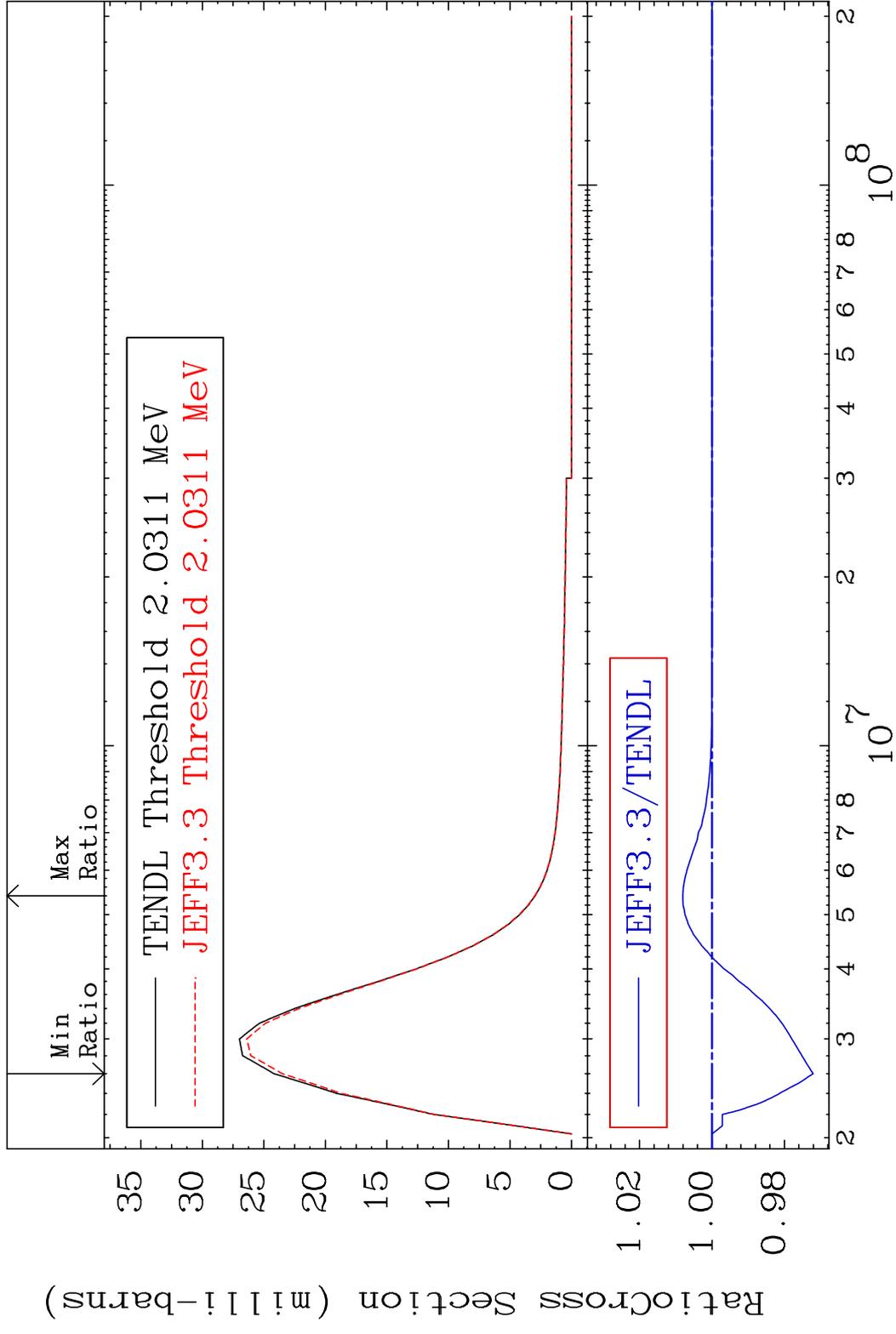
MAT 5425 MT= 63 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 1.036 %



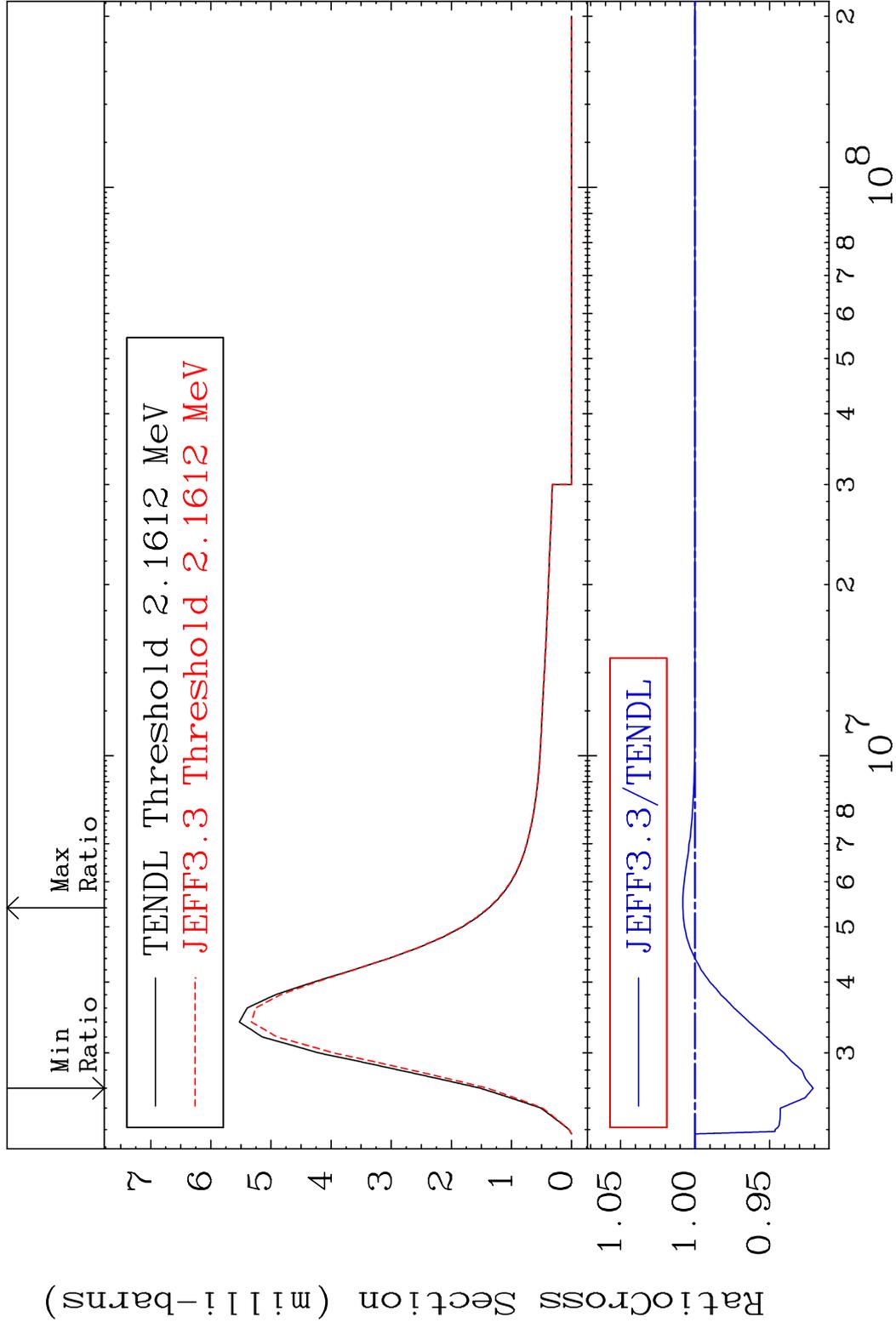
MAT 5425 MT= 64 (n, n') Level 54-Xe-124  
 Cross Section -46.43 To 22.85 %



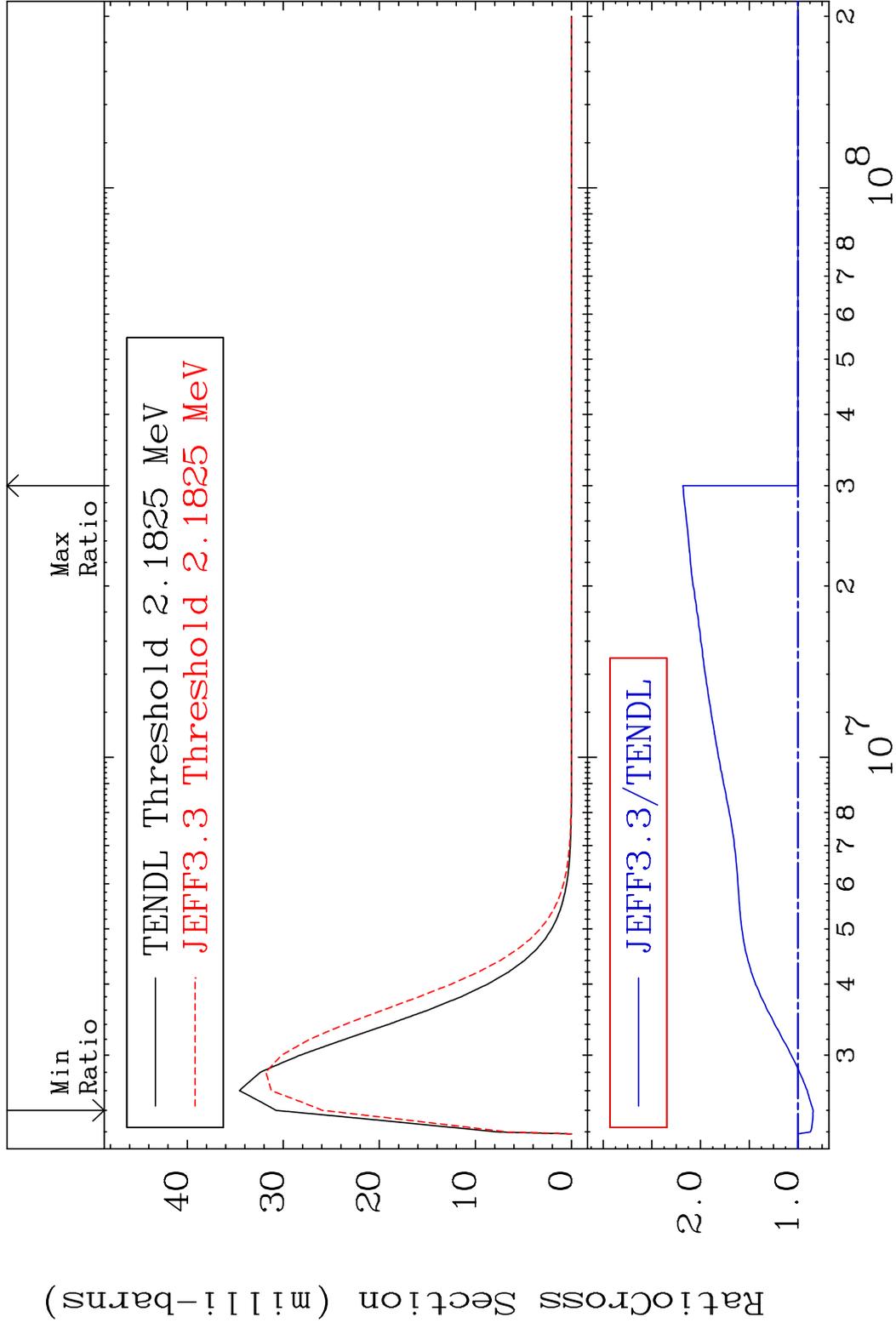
MAT 5425 MT= 65 (n, n') Level 54-Xe-124  
 Cross Section -2.795 To 0.806 %



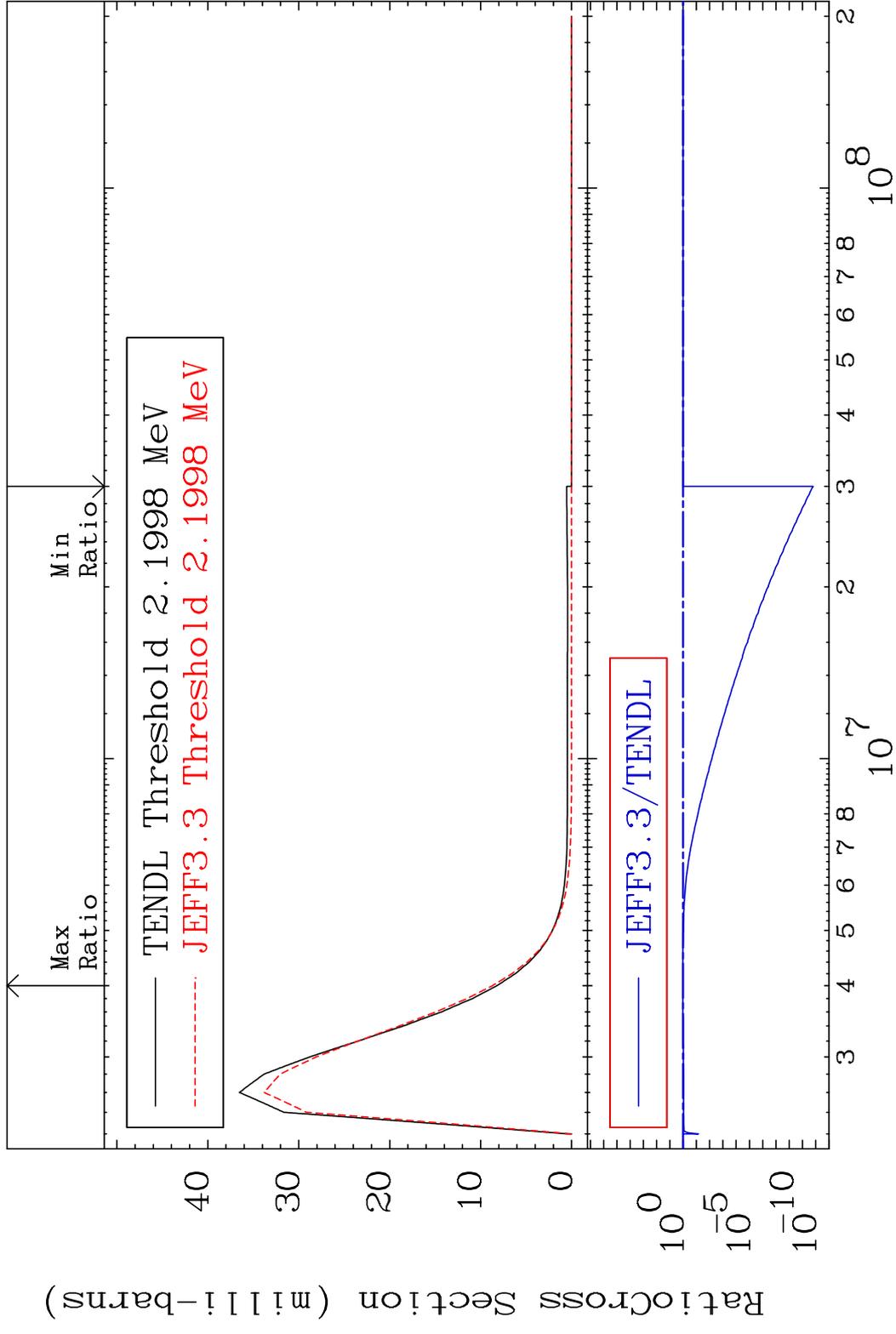
MAT 5425 MT= 66 (n, n') Level 54-Xe-124  
 Cross Section -7.912 To 0.820 %



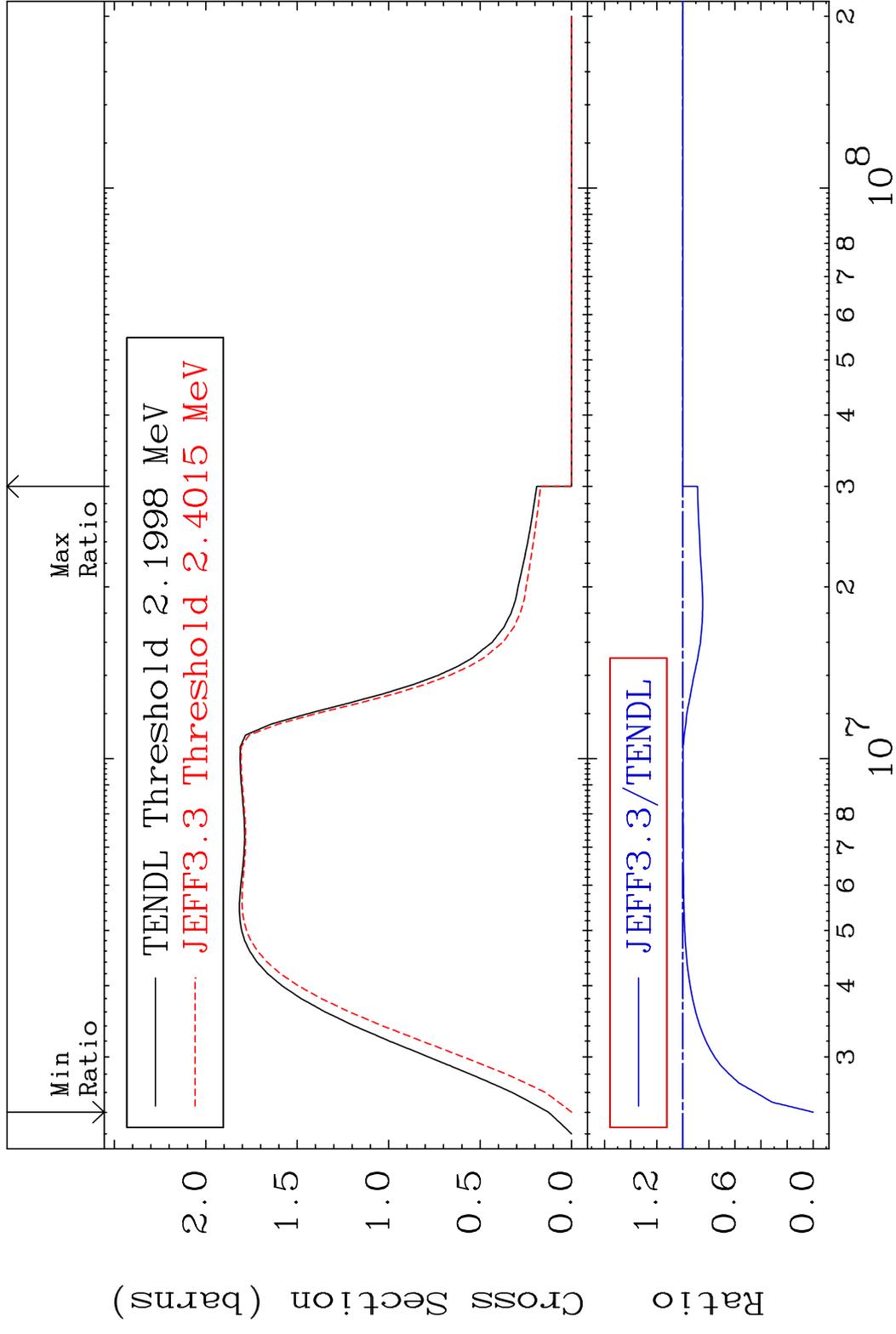
MAT 5425 MT= 67 (n, n') Level 54-Xe-124  
 Cross Section -15.74 To 118.2 %



MAT 5425 MT= 68 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 6.041 %



MAT 5425 (n, n') Continuum 54-Xe-124  
 Cross Section -100.0 To 0.000 %

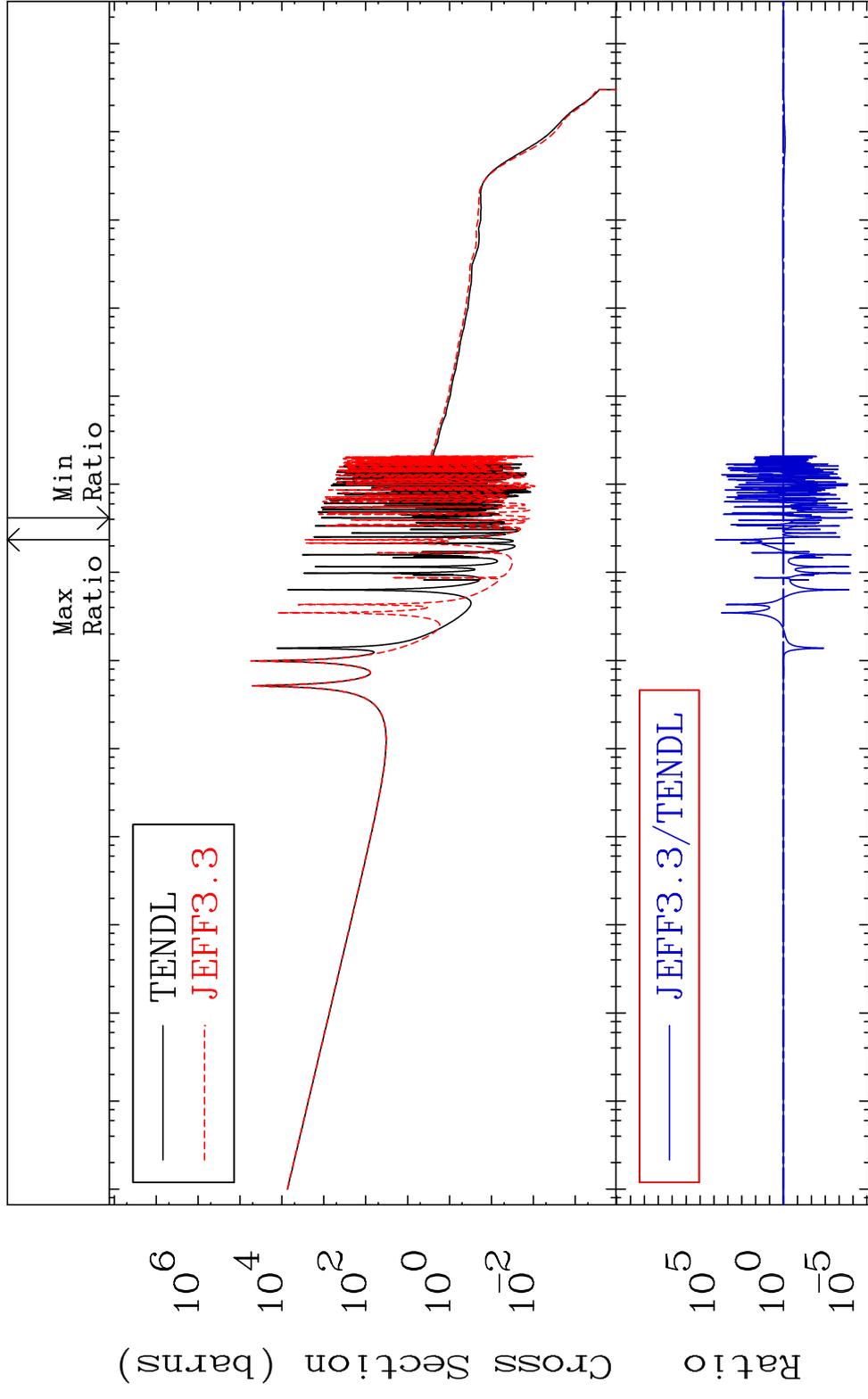


MAT 5425

54-Xe-124

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %

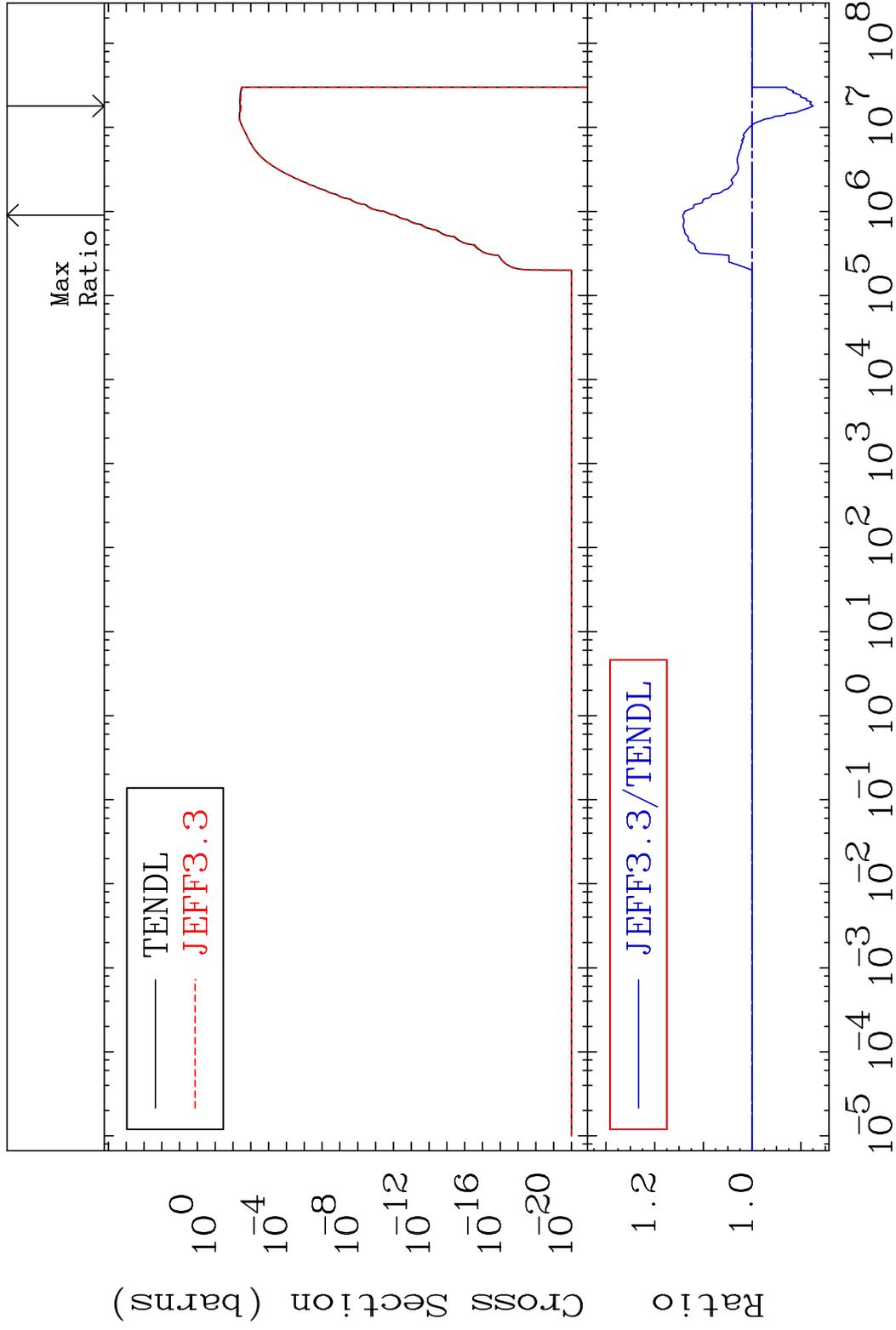


MAT 5425

(n, p)

54-Xe-124

Cross Section -12.52 To 14.23 %



39

Incident Energy (eV)

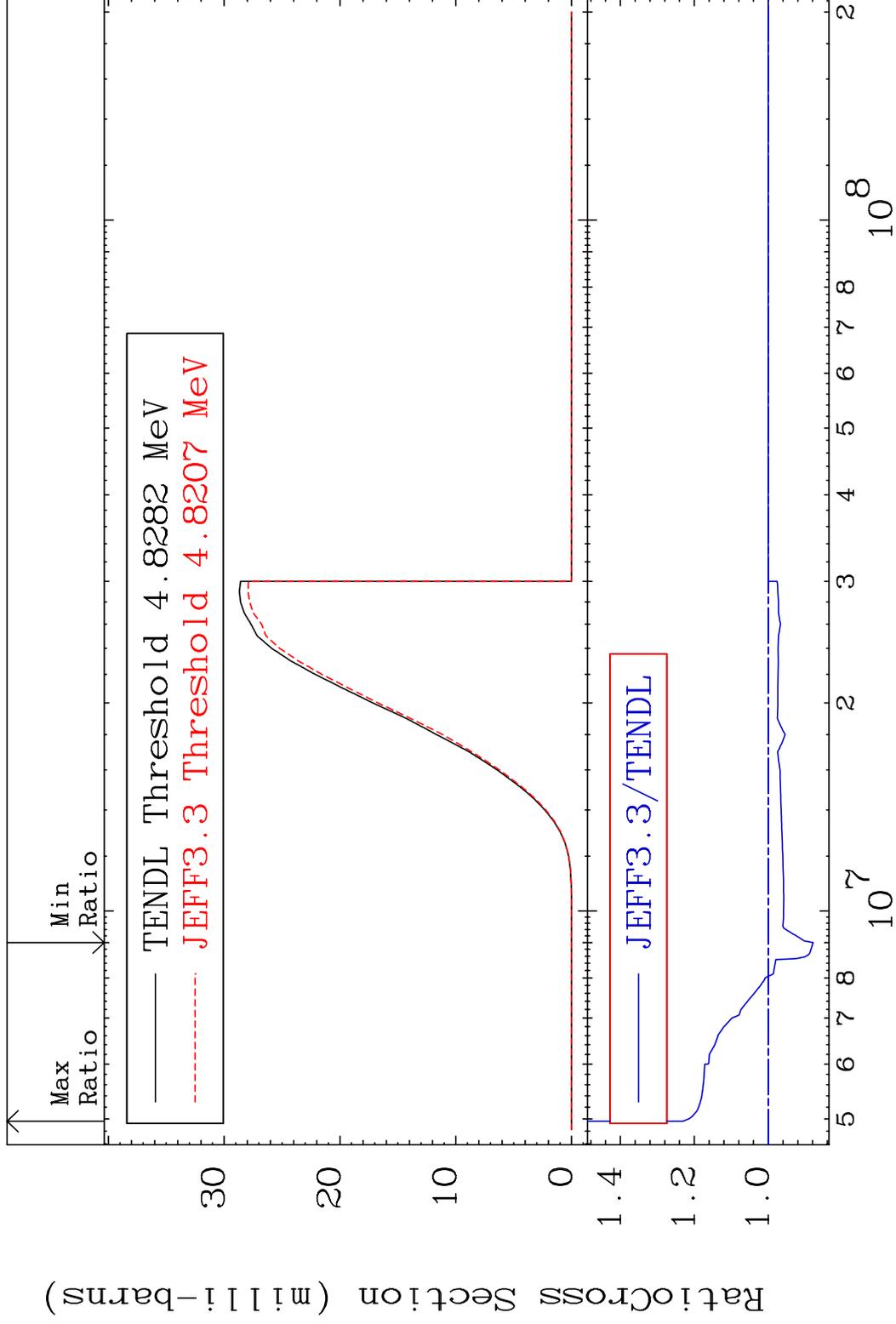
54-Xe-124

MAT 5425

(n, d)

54-Xe-124

Cross Section -12.14 To 23.10 %



40

Incident Energy (eV)

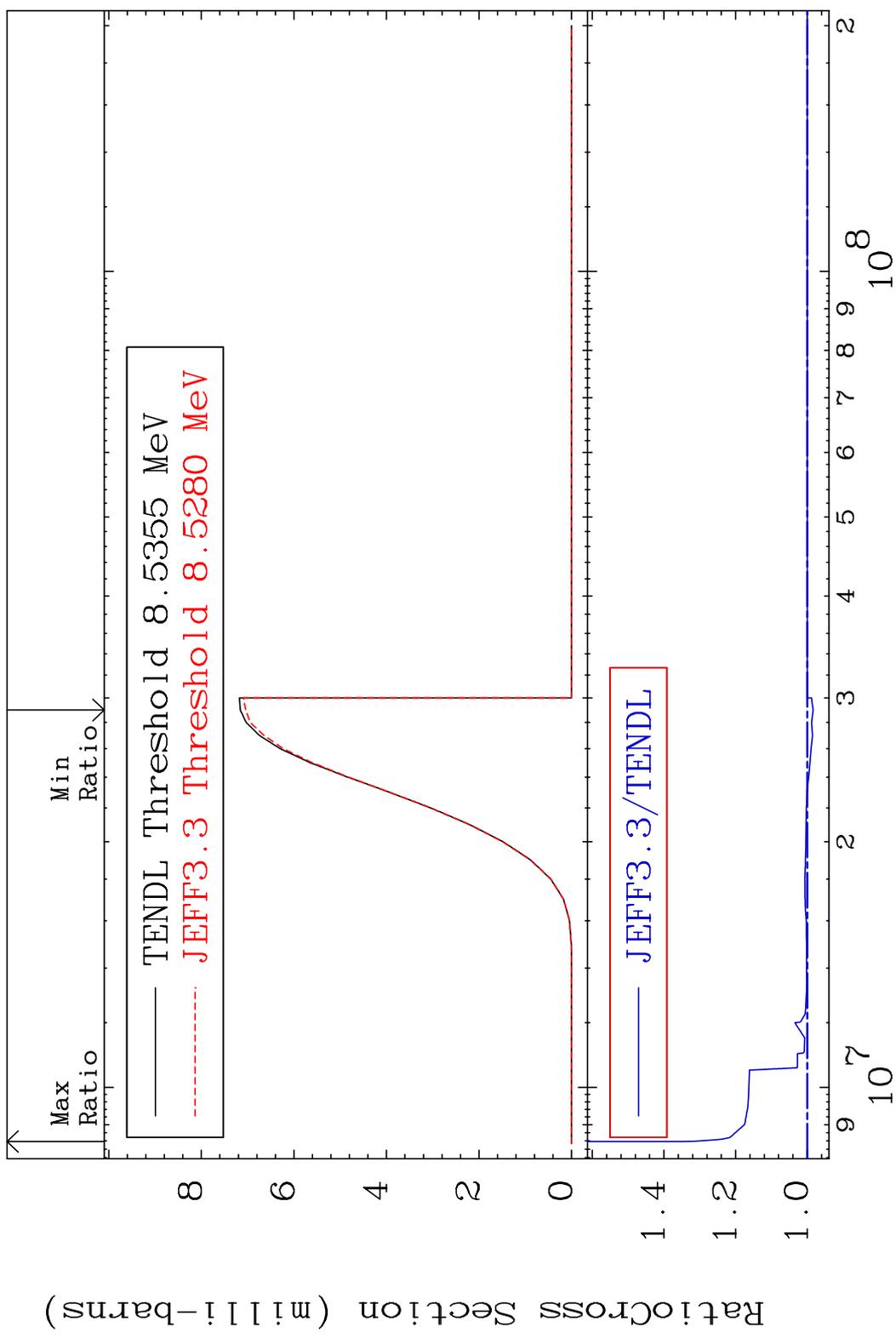
54-Xe-124

MAT 5425

(n, t)

54-Xe-124

Cross Section -1.641 To 34.74 %

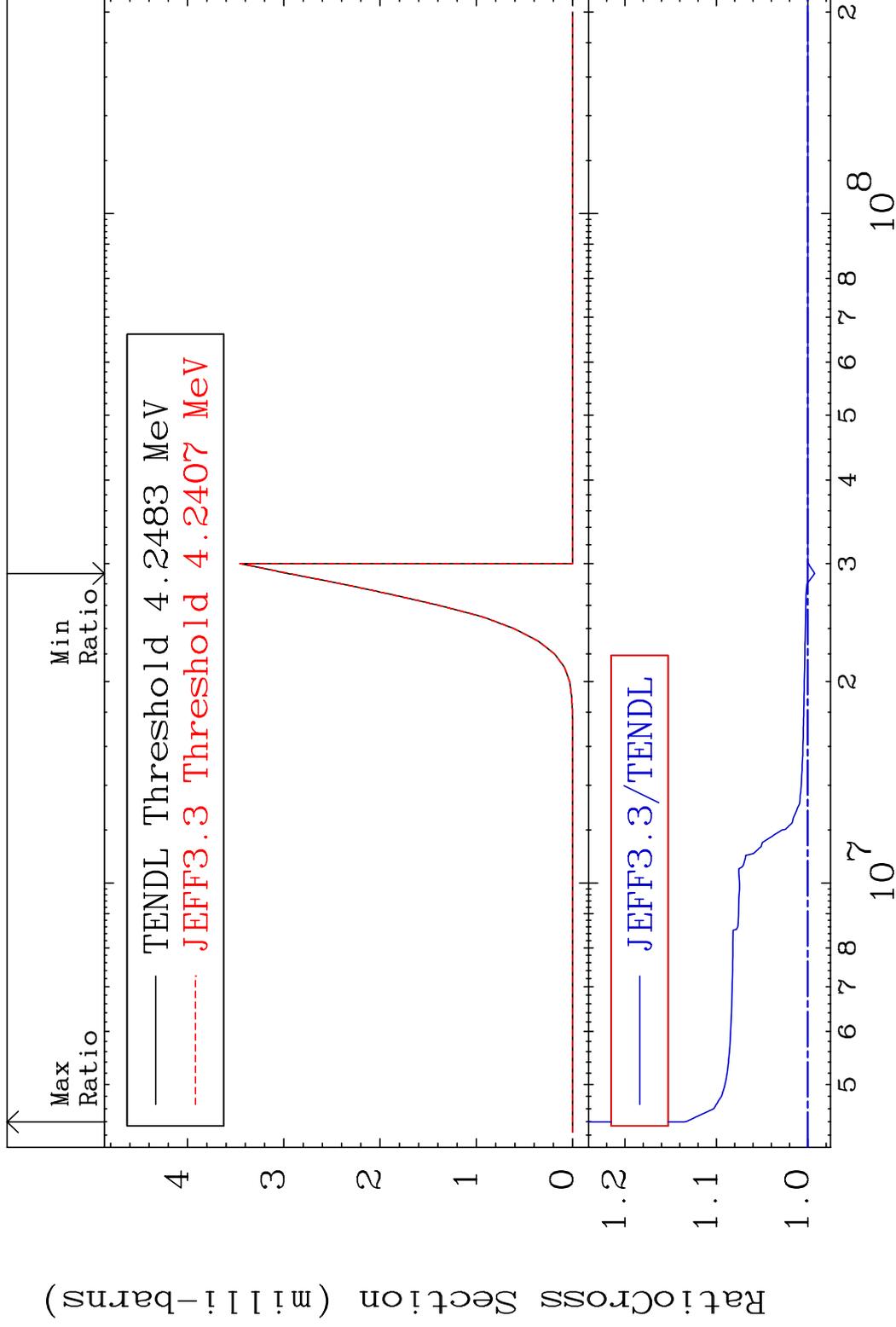


MAT 5425

(n, He-3)

54-Xe-124

Cross Section -0.750 To 13.53 %



42

Incident Energy (eV)

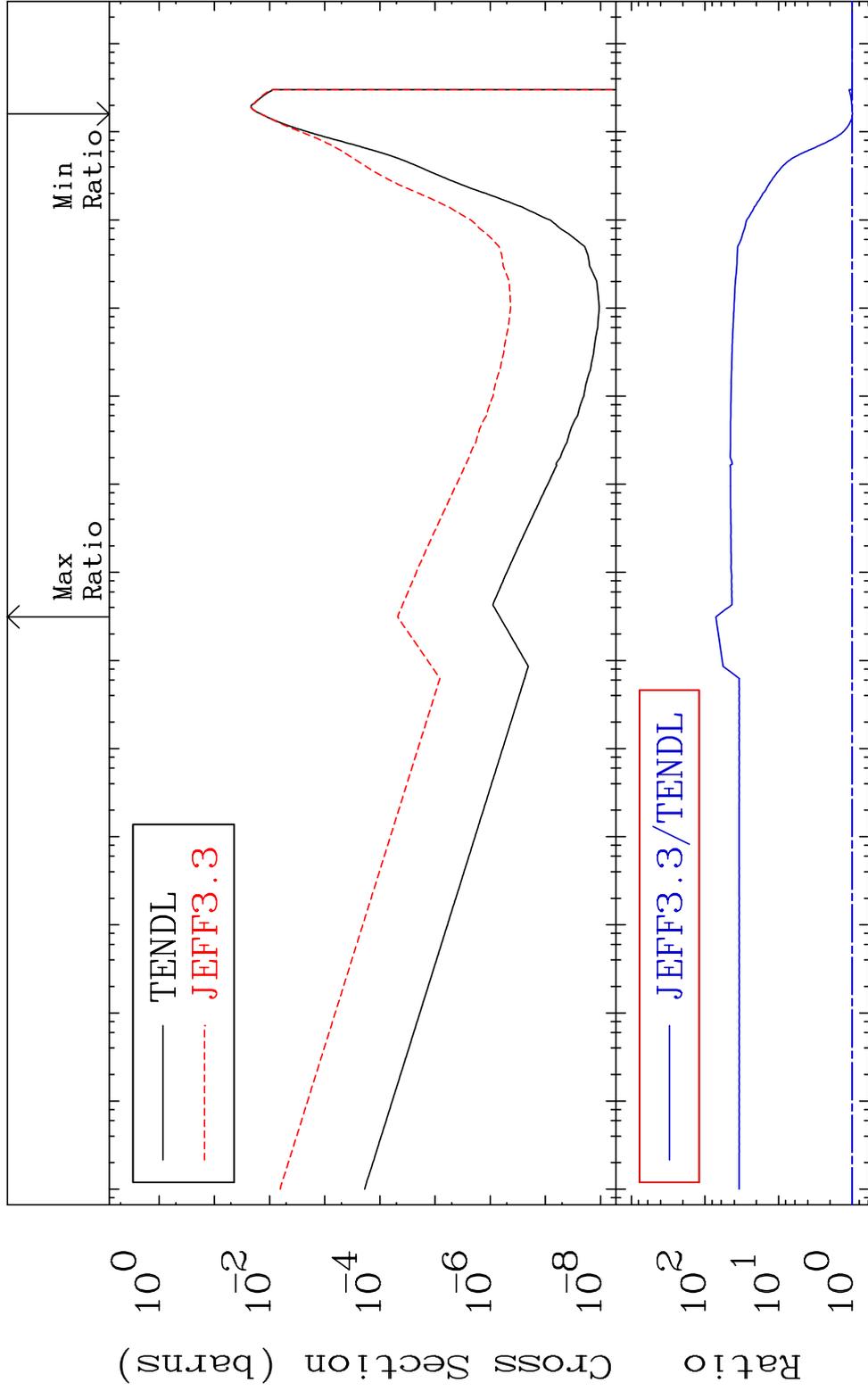
54-Xe-124

MAT 5425

54-Xe-124

(n,  $\alpha$ )

Cross Section -1.217 To 7002. %



43

Incident Energy (eV)

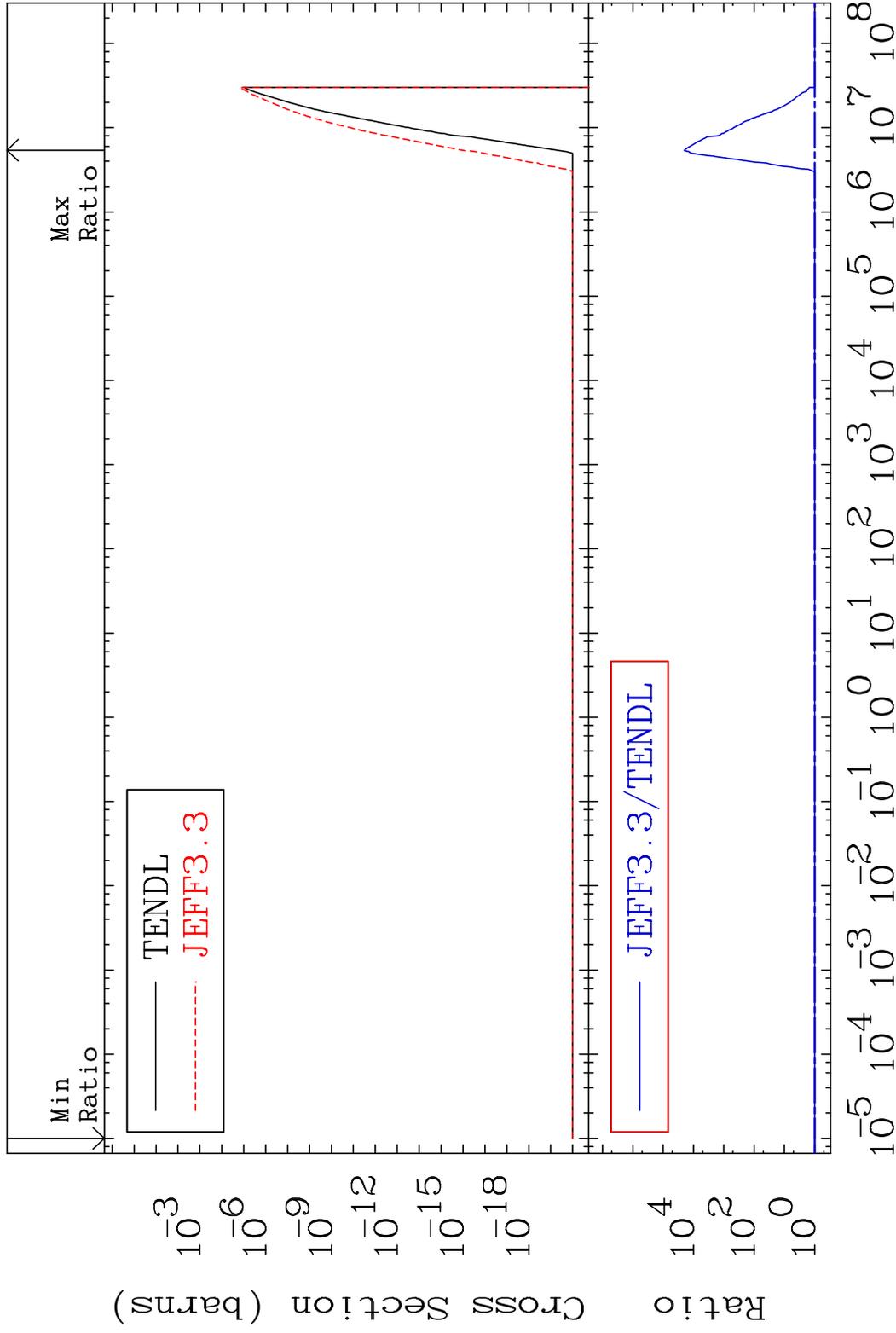
54-Xe-124

MAT 5425

(n,2α)

54-Xe-124

Cross Section 0.000 To 9999. %



44

Incident Energy (eV)

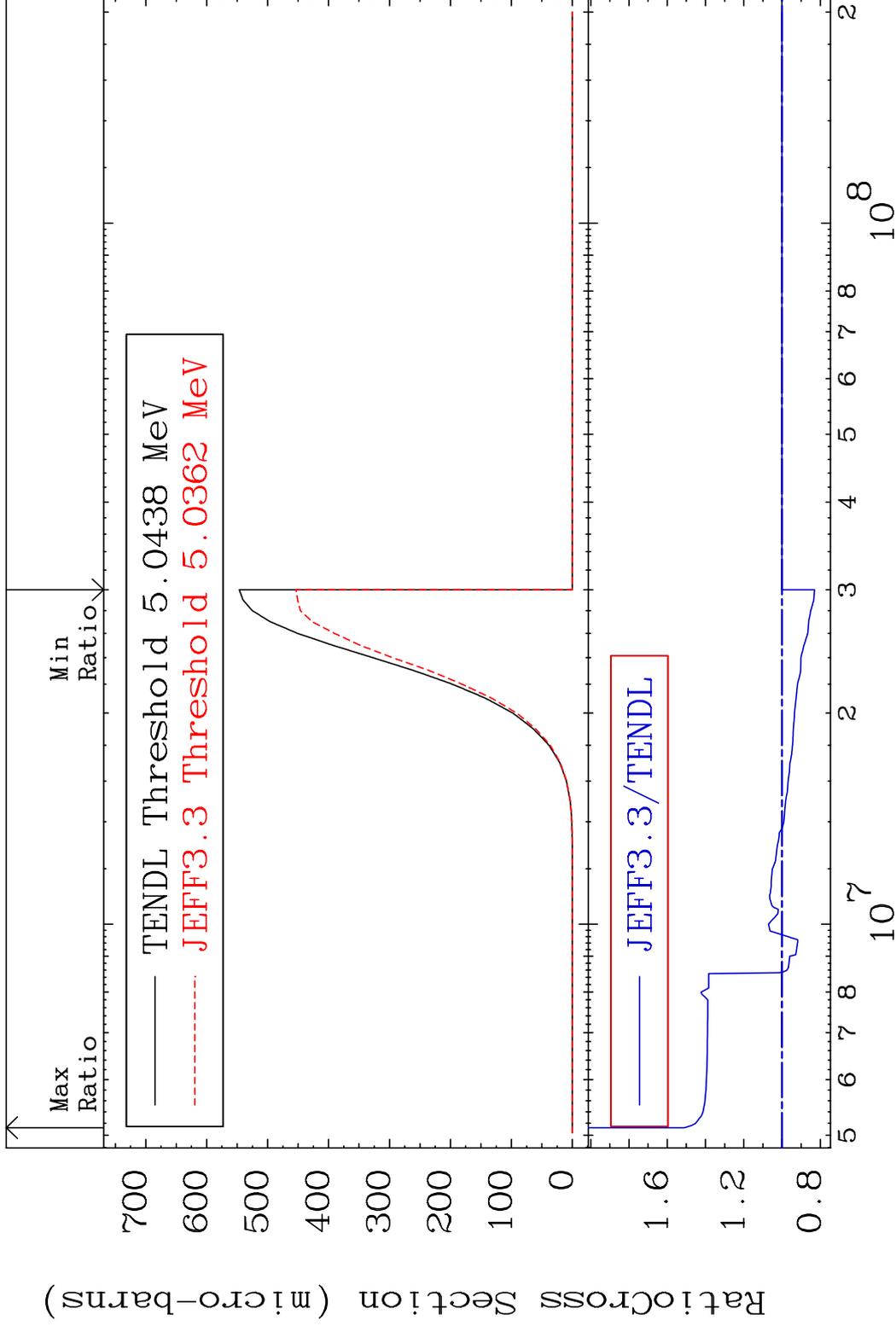
54-Xe-124

MAT 5425

(n,2p)

54-Xe-124

Cross Section -17.03 To 51.27 %



45

Incident Energy (eV)

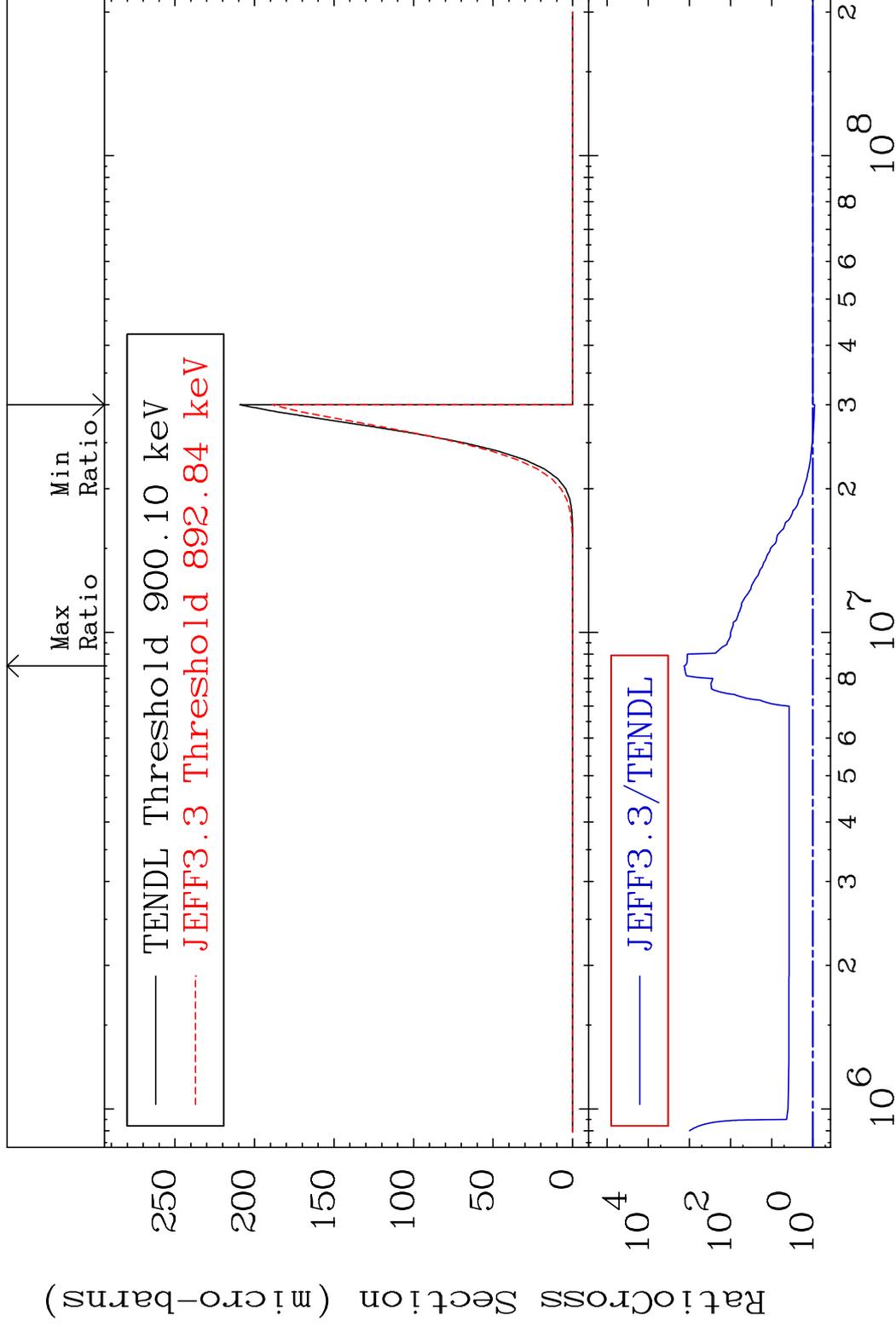
54-Xe-124

MAT 5425

(n,p)  $\alpha$

54-Xe-124

Cross Section -9.769 To 9999. %



46

Incident Energy (eV)

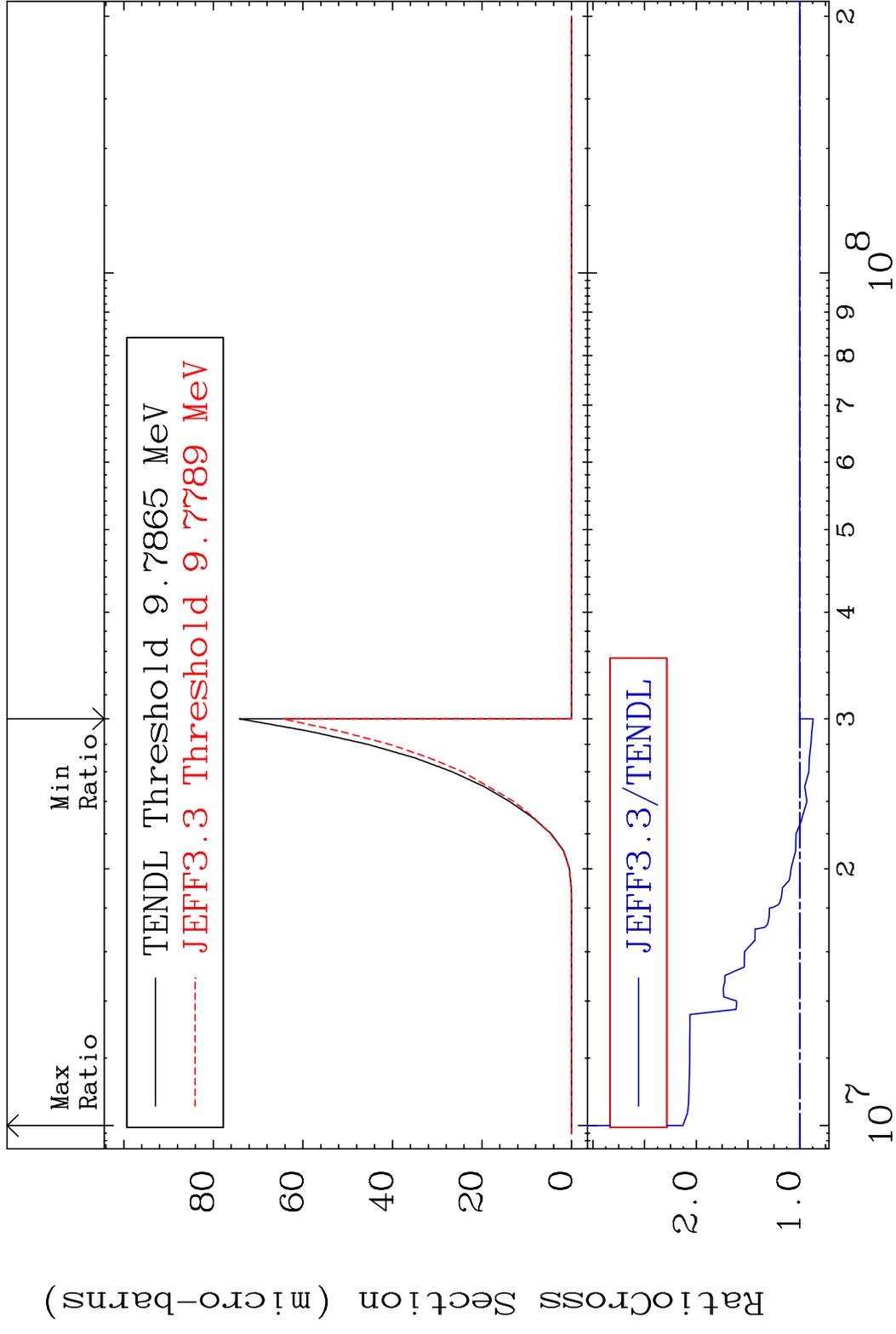
54-Xe-124

MAT 5425

(n,p) d

54-Xe-124

Cross Section -12.97 To 113.0 %



Ratio Cross Section (micro-barns)

47

Incident Energy (eV)

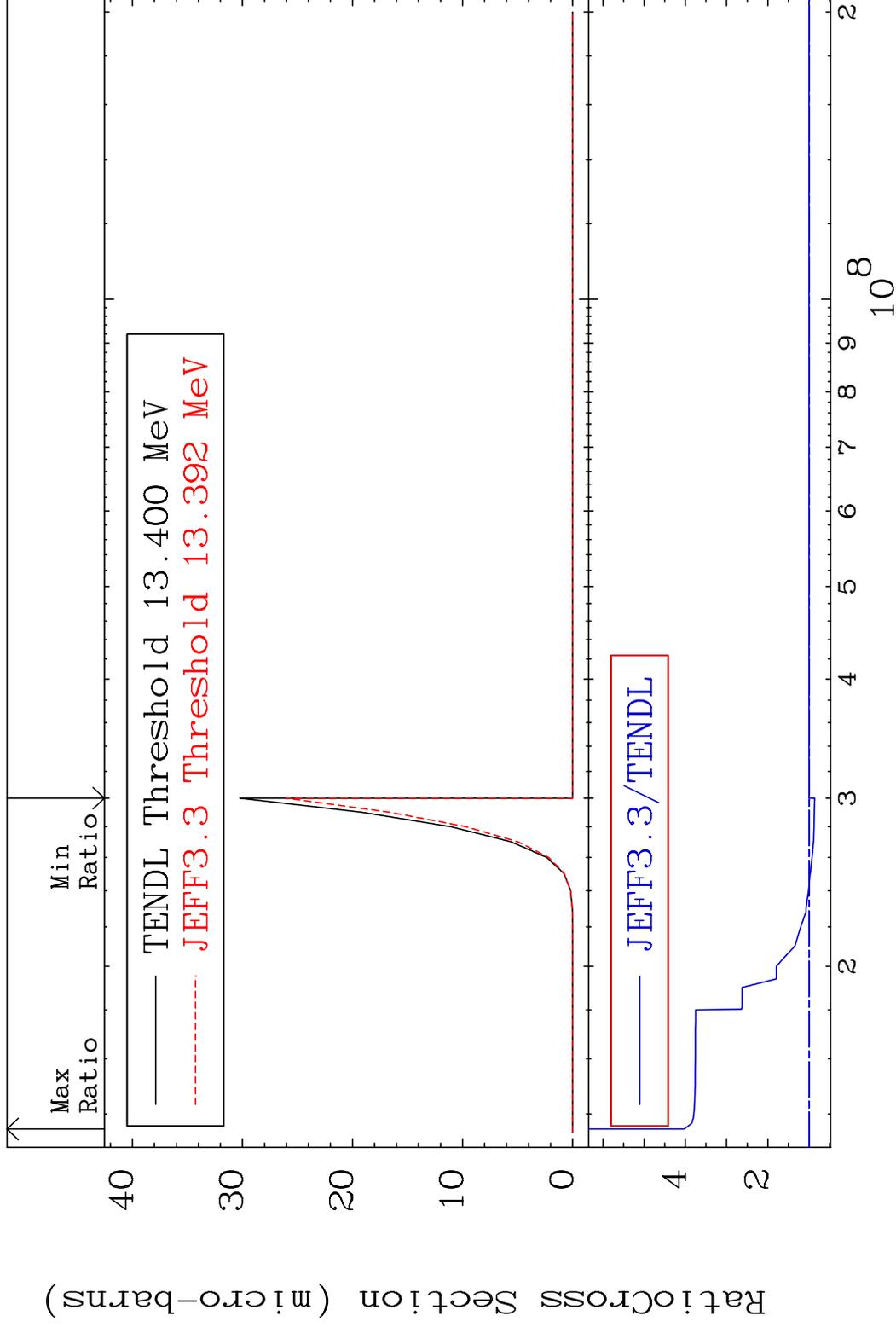
54-Xe-124

MAT 5425

(n,p) t

54-Xe-124

Cross Section -13.94 To 303.0 %



48

Incident Energy (eV)

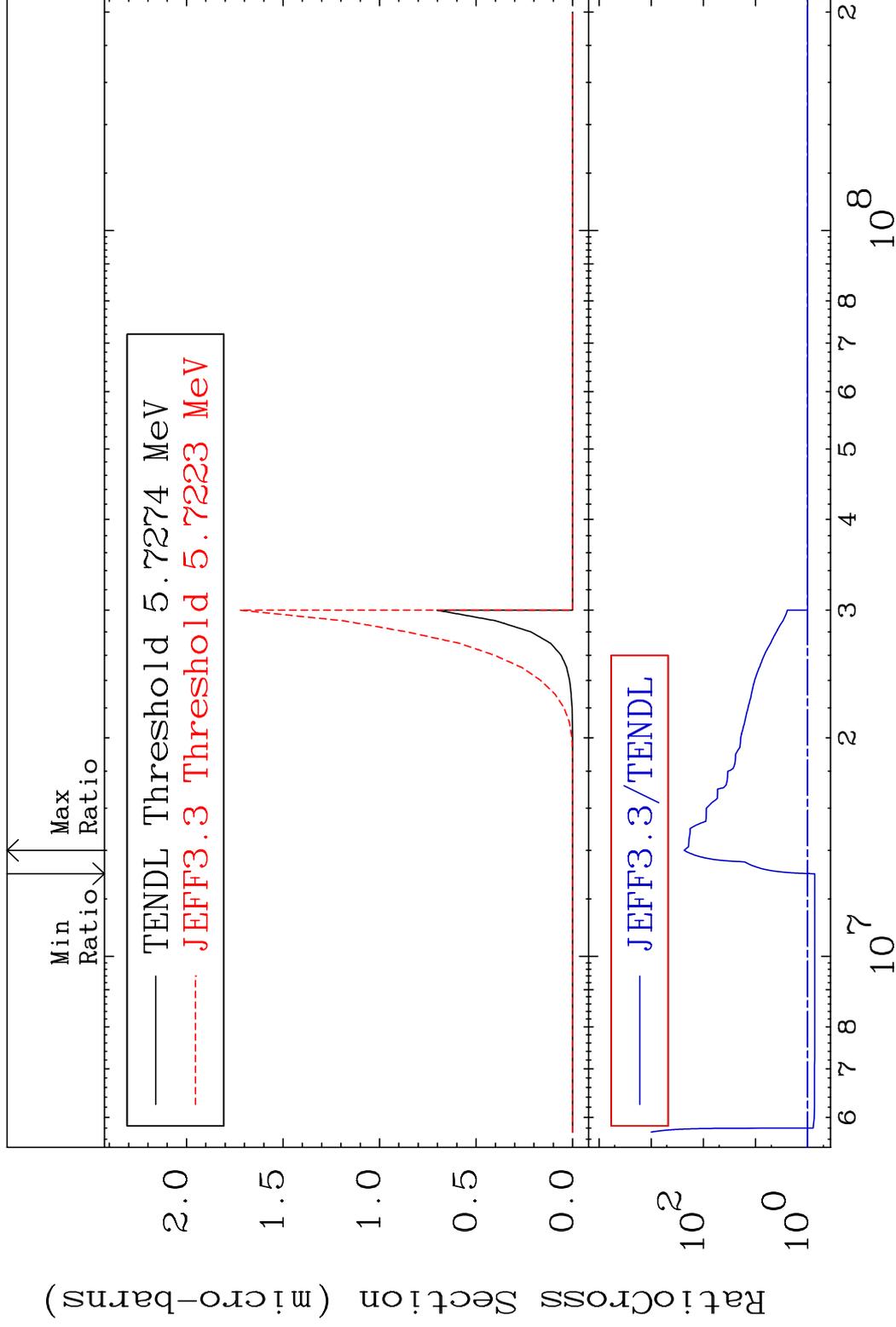
54-Xe-124

MAT 5425

(n,d)  $\alpha$

54-Xe-124

Cross Section -26.59 To 9999. %



49

Incident Energy (eV)

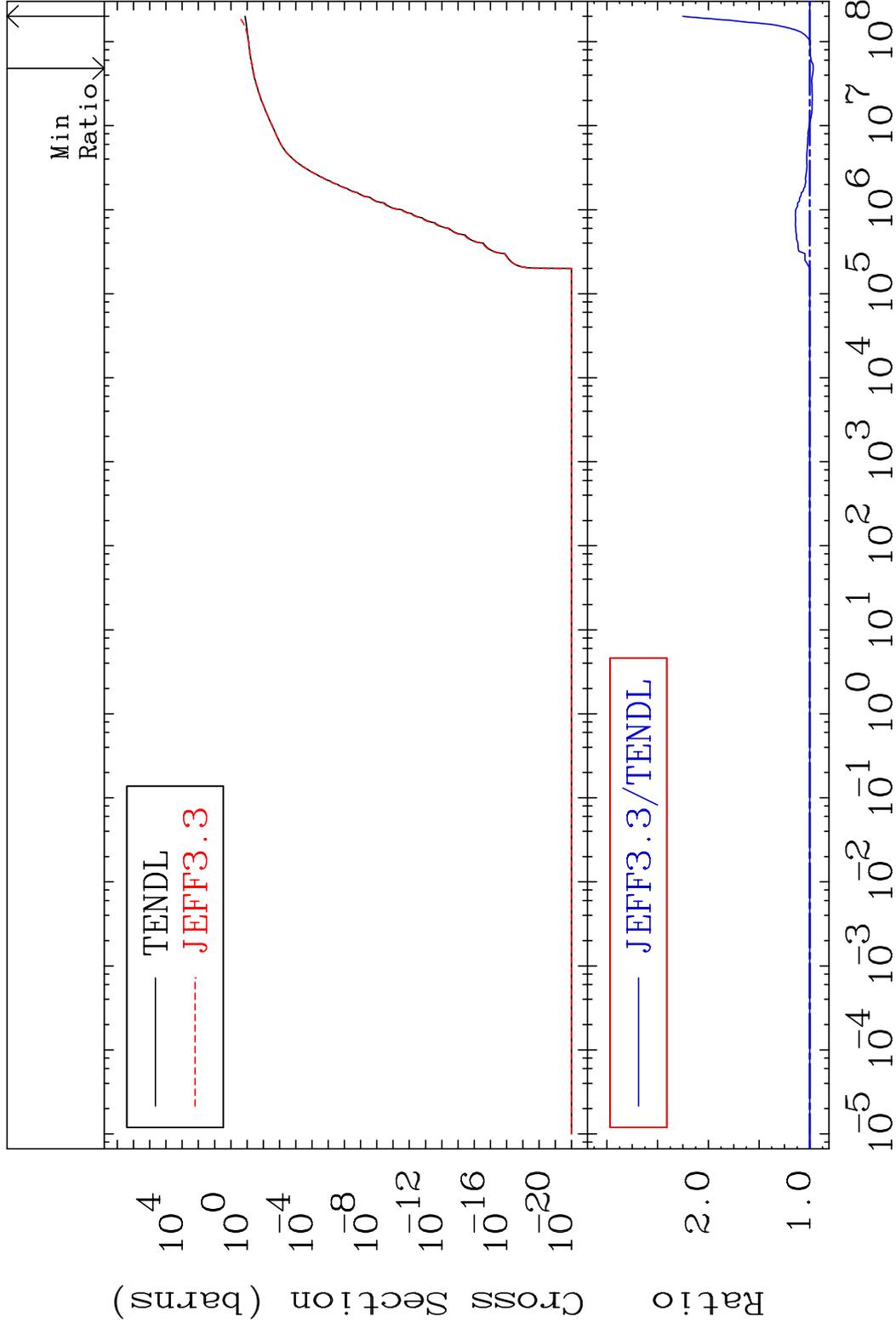
54-Xe-124

MAT 5425

Hydrogen Production

54-Xe-124

Cross Section -3.273 To 125.1 %



50

Incident Energy (eV)

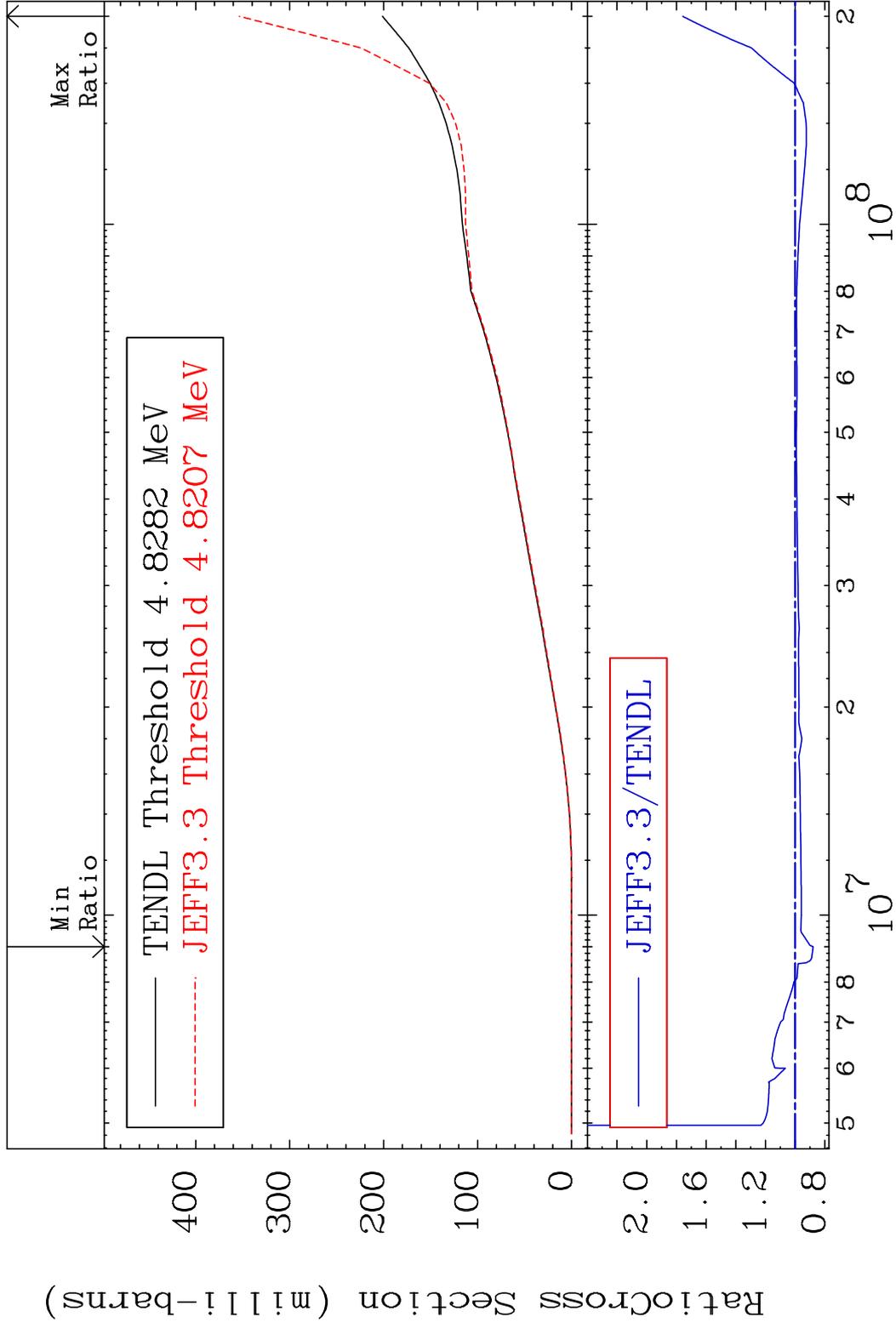
54-Xe-124

MAT 5425

Deuterium Production

54-Xe-124

Cross Section -12.14 To 75.66 %

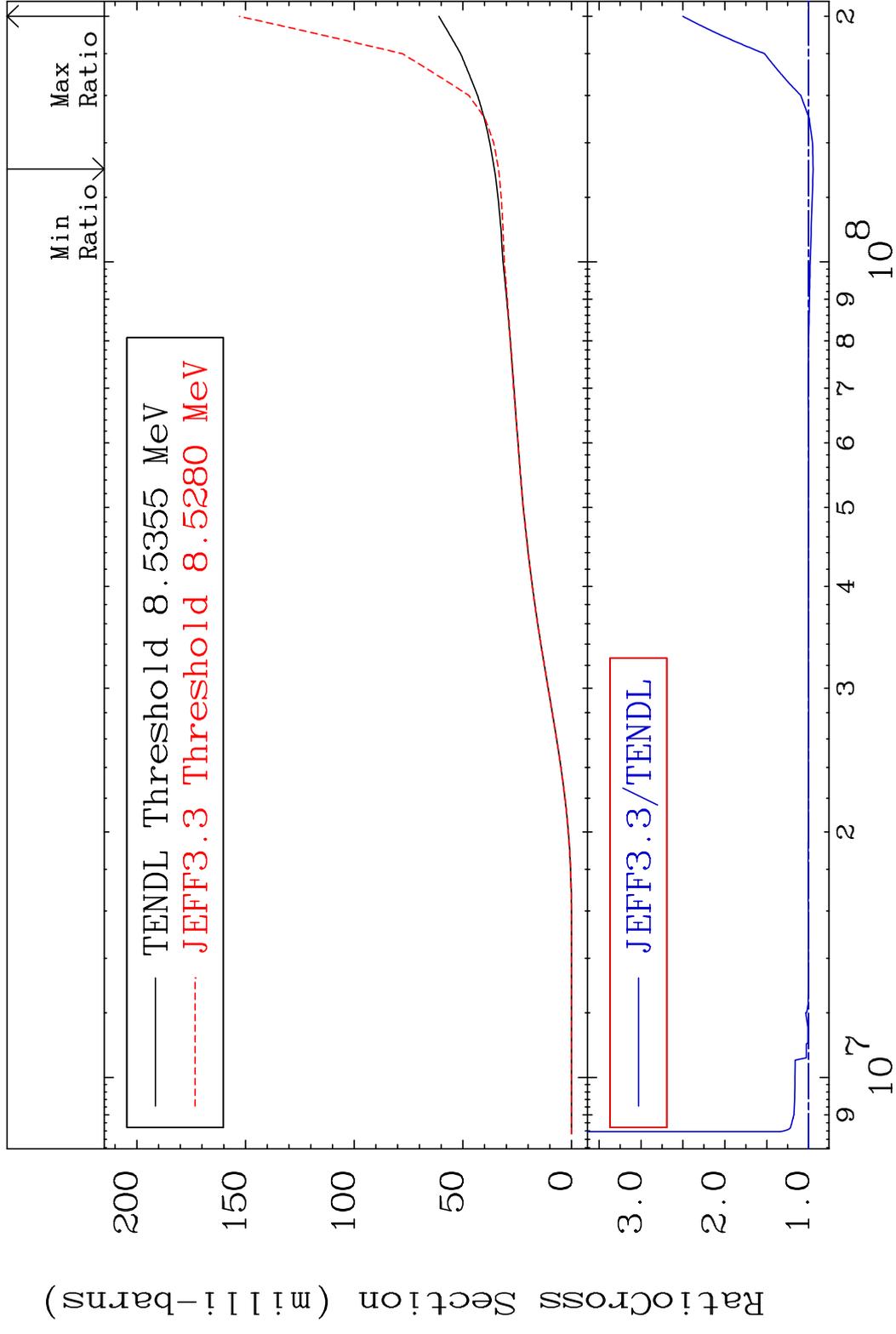


MAT 5425

Tritium Production

54-Xe-124

Cross Section -5.359 To 150.1 %

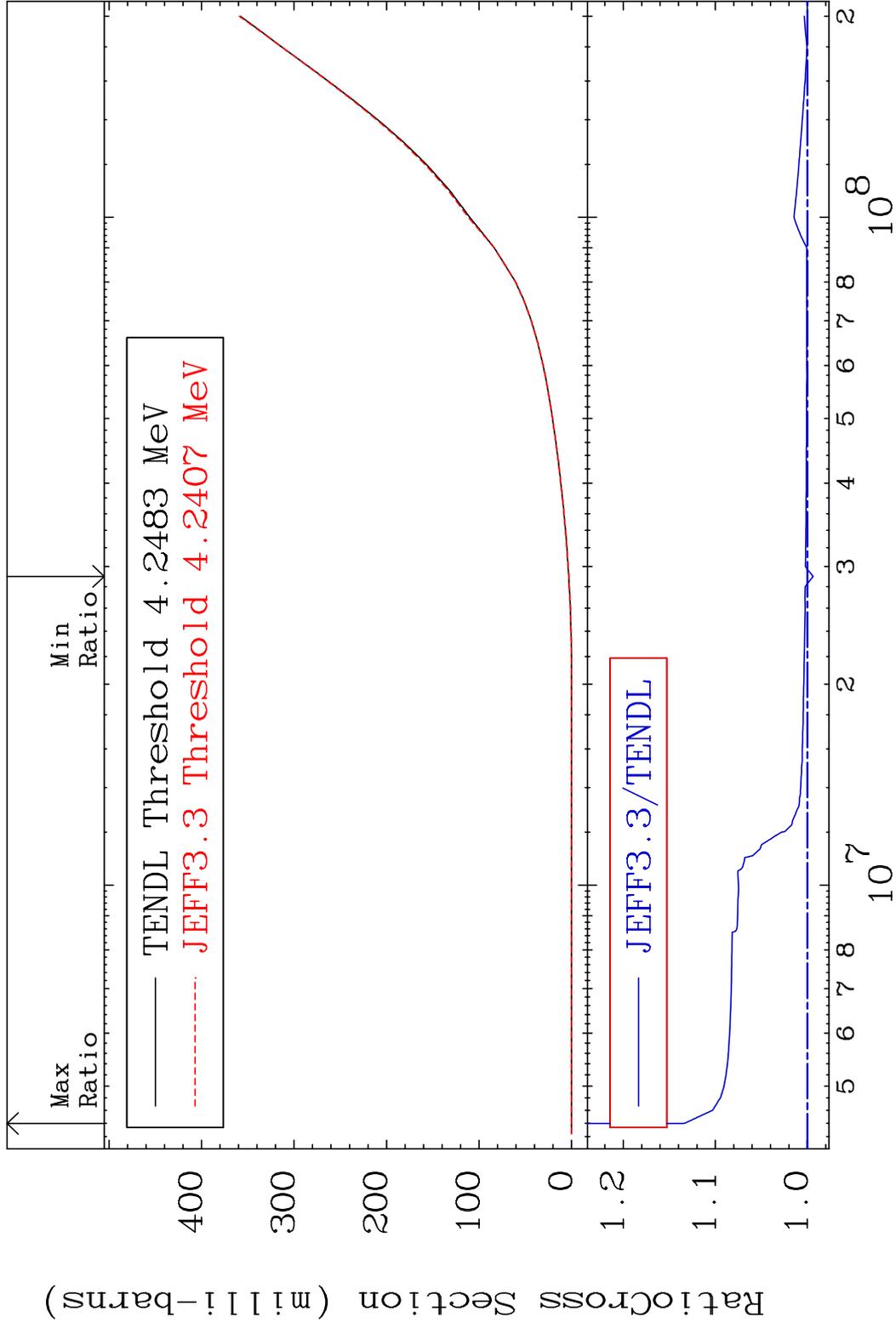


MAT 5425

He-3 Production

54-Xe-124

Cross Section -0.636 To 13.53 %

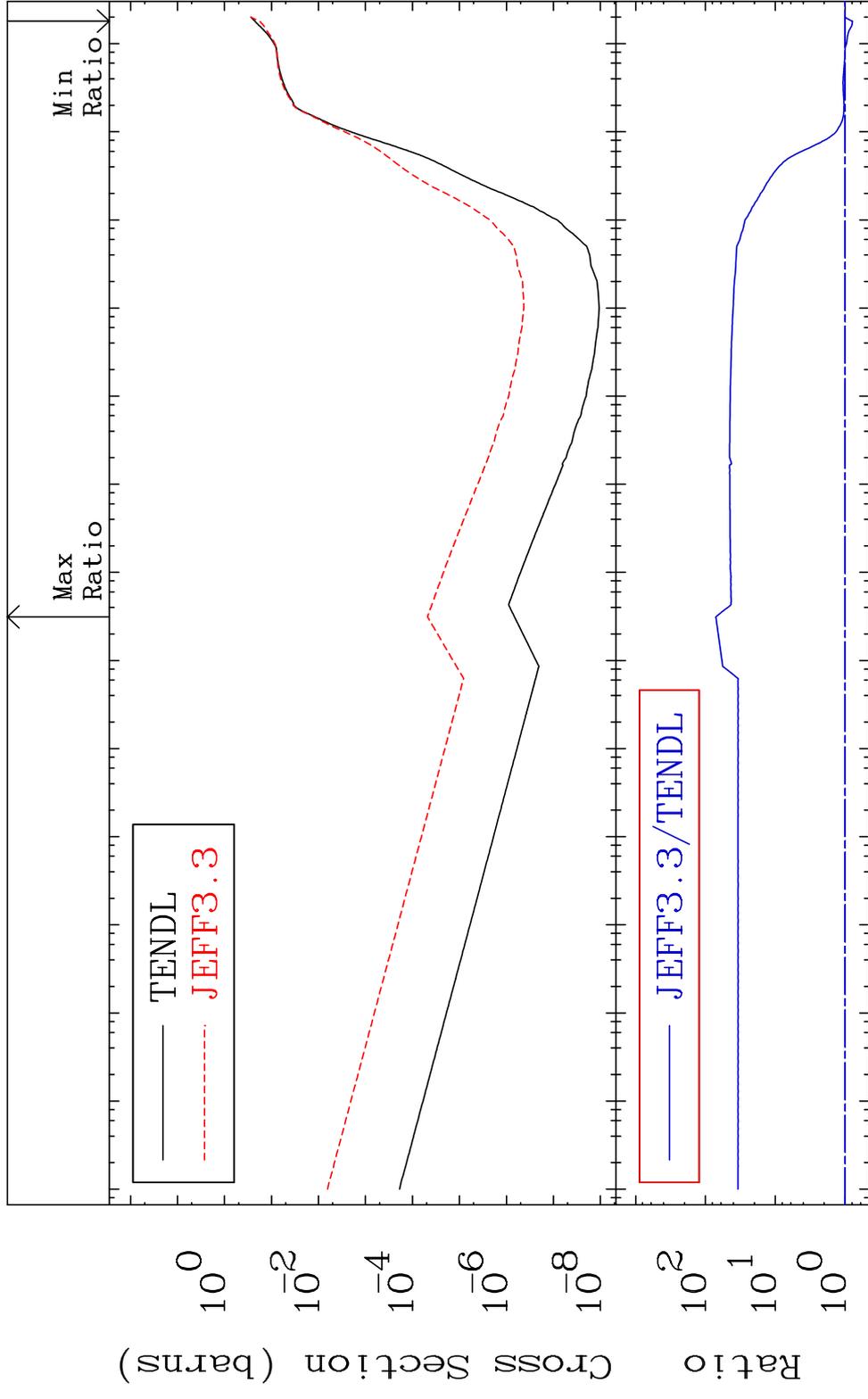


MAT 5425

He-4 Production

54-Xe-124

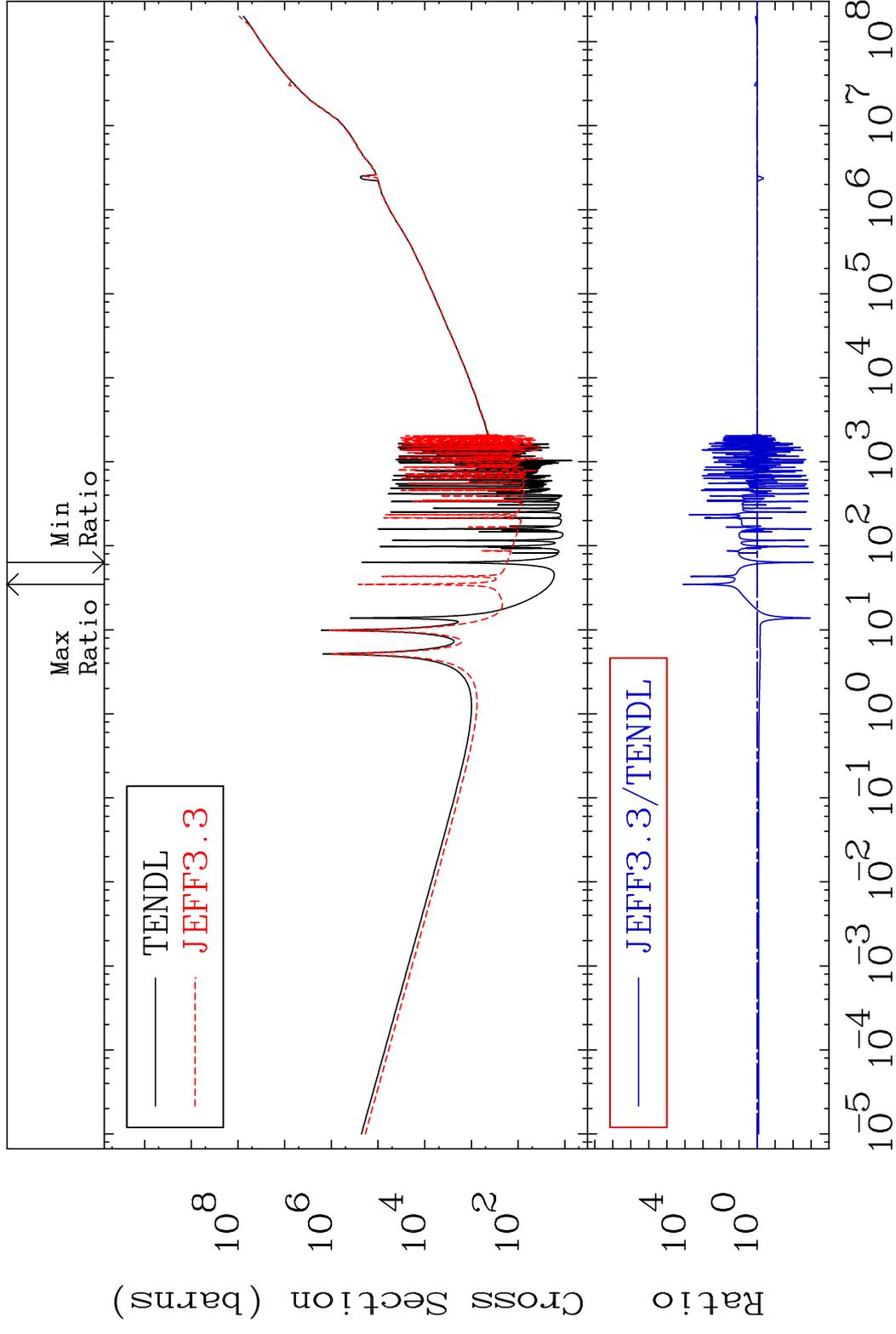
Cross Section -21.38 To 7002. %



MAT 5425

Kerma total (eV-barns) 54-Xe-124

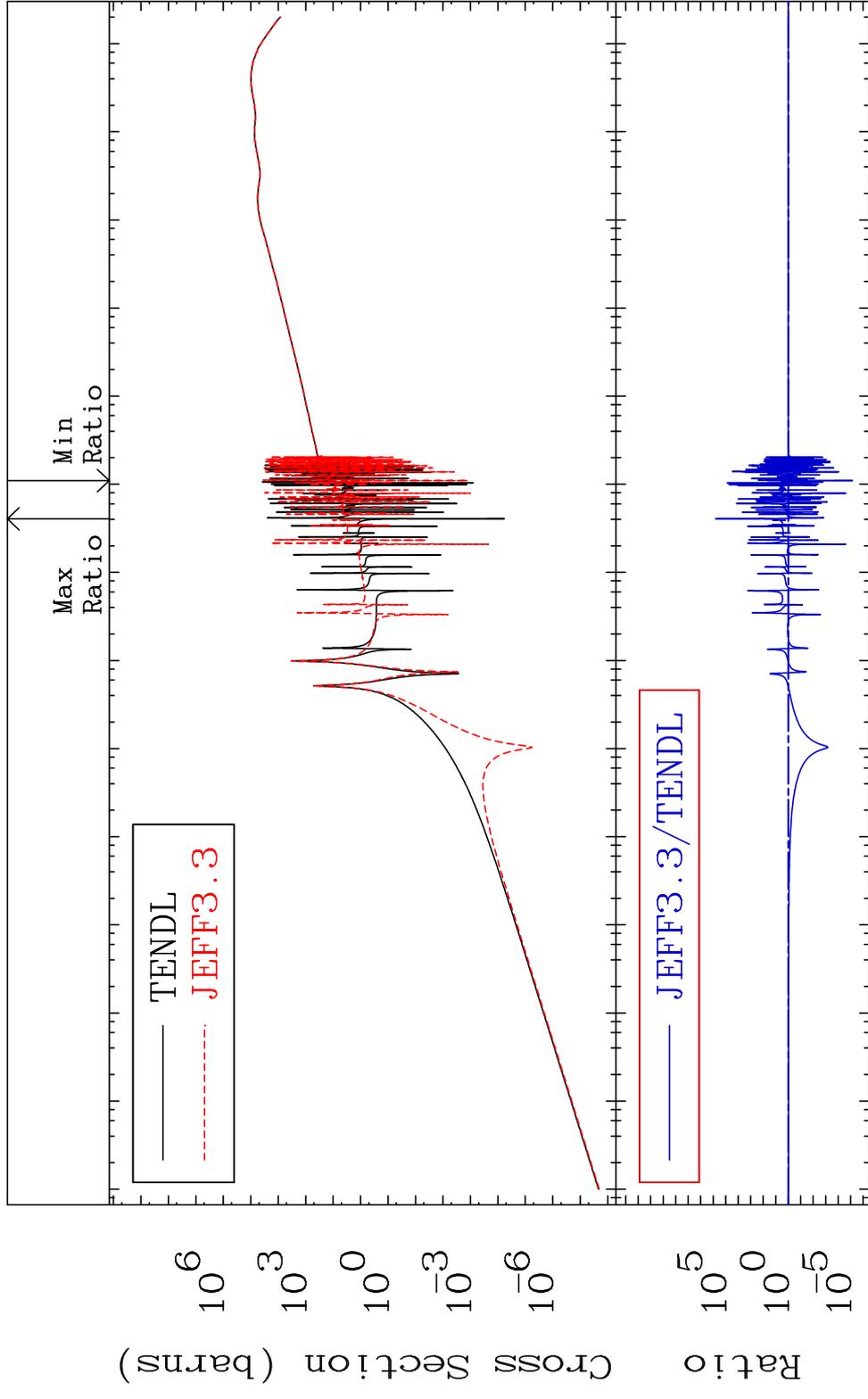
Cross Section -99.92 To 9999. %



MAT 5425

Kerma elastic  
Cross Section -100.0 To 9999. %

54-Xe-124



Cross Section (barns)

Ratio

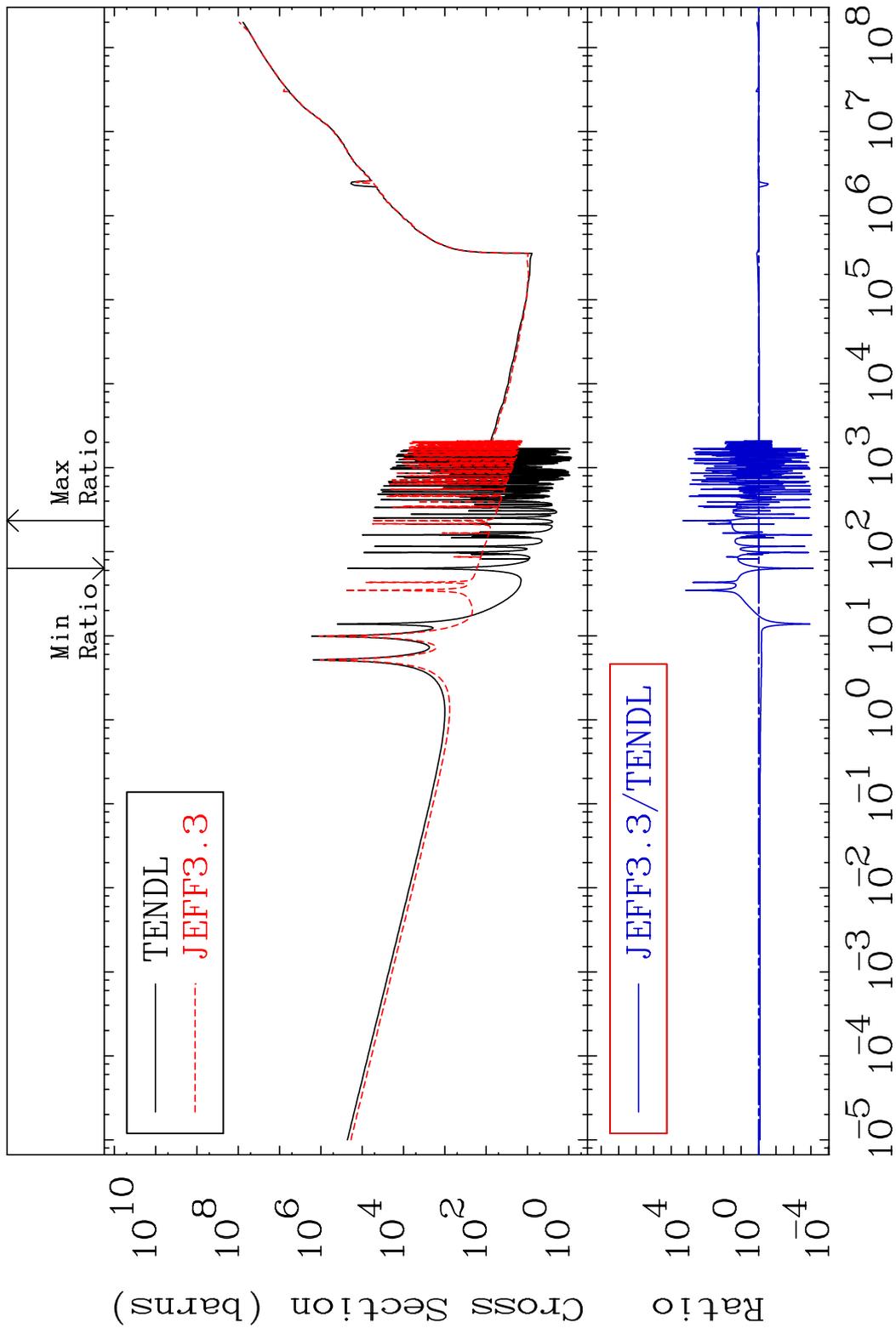
10<sup>6</sup>  
10<sup>3</sup>  
10<sup>0</sup>  
10<sup>-3</sup>  
10<sup>-6</sup>  
10<sup>5</sup>  
10<sup>0</sup>  
10<sup>-5</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

56

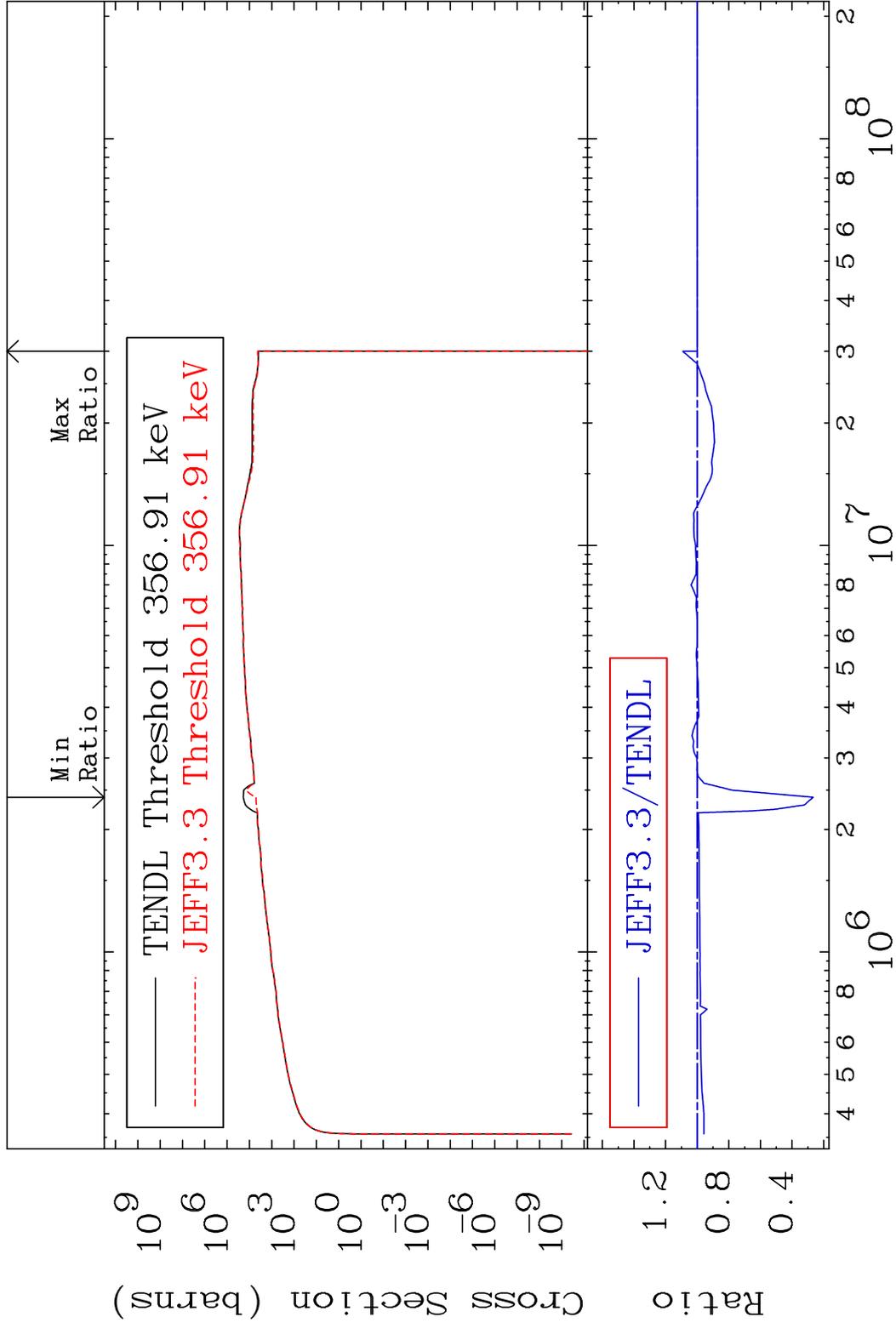
Incident Energy (eV)

54-Xe-124

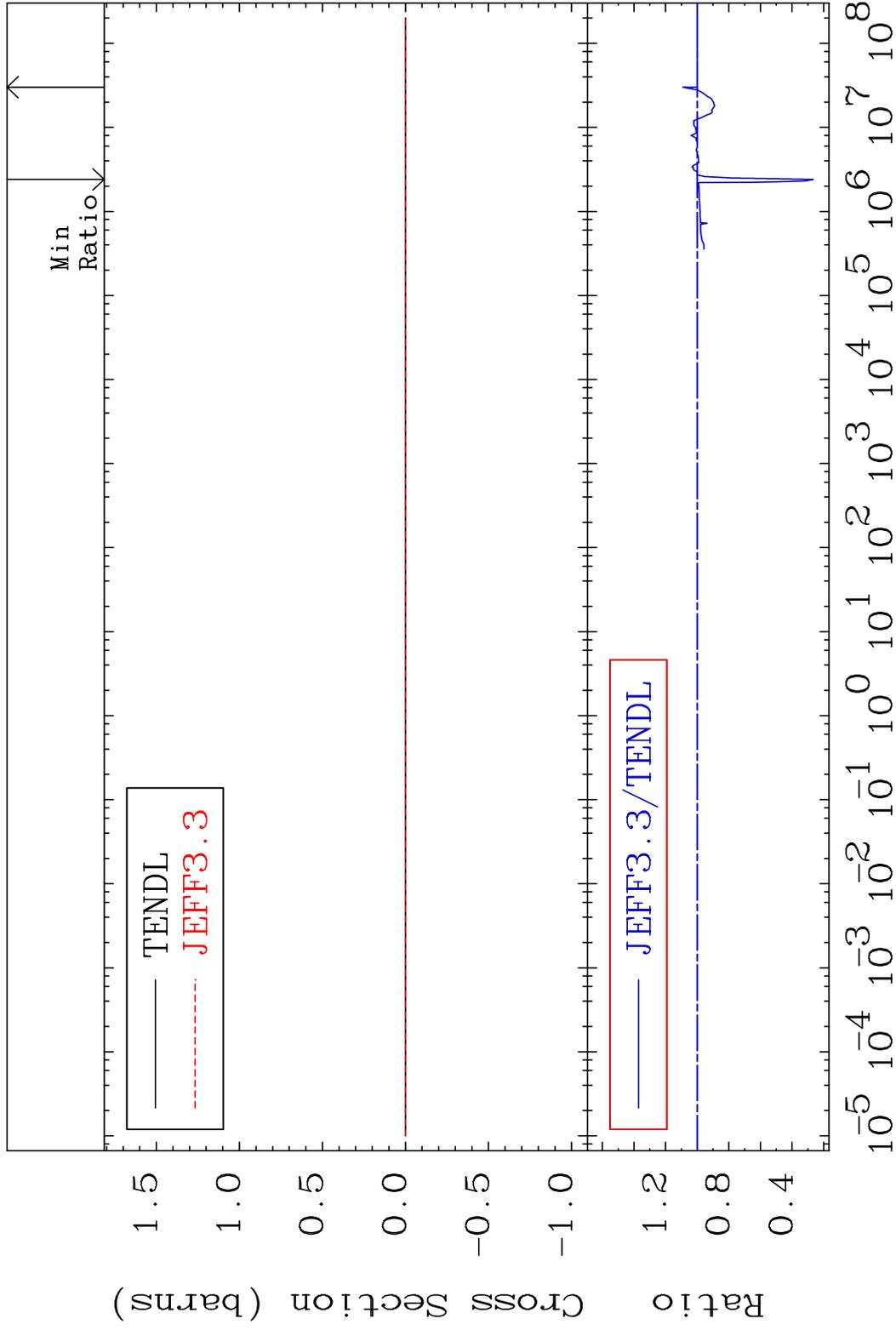
MAT 5425 Kerma non-elastic (all but mt2) 54-Xe-124  
 Cross Section -99.92 To 9999. %



MAT 5425 Kerma inelastic (mt51-91) 54-Xe-124  
 Cross Section -73.32 To 9.111 %



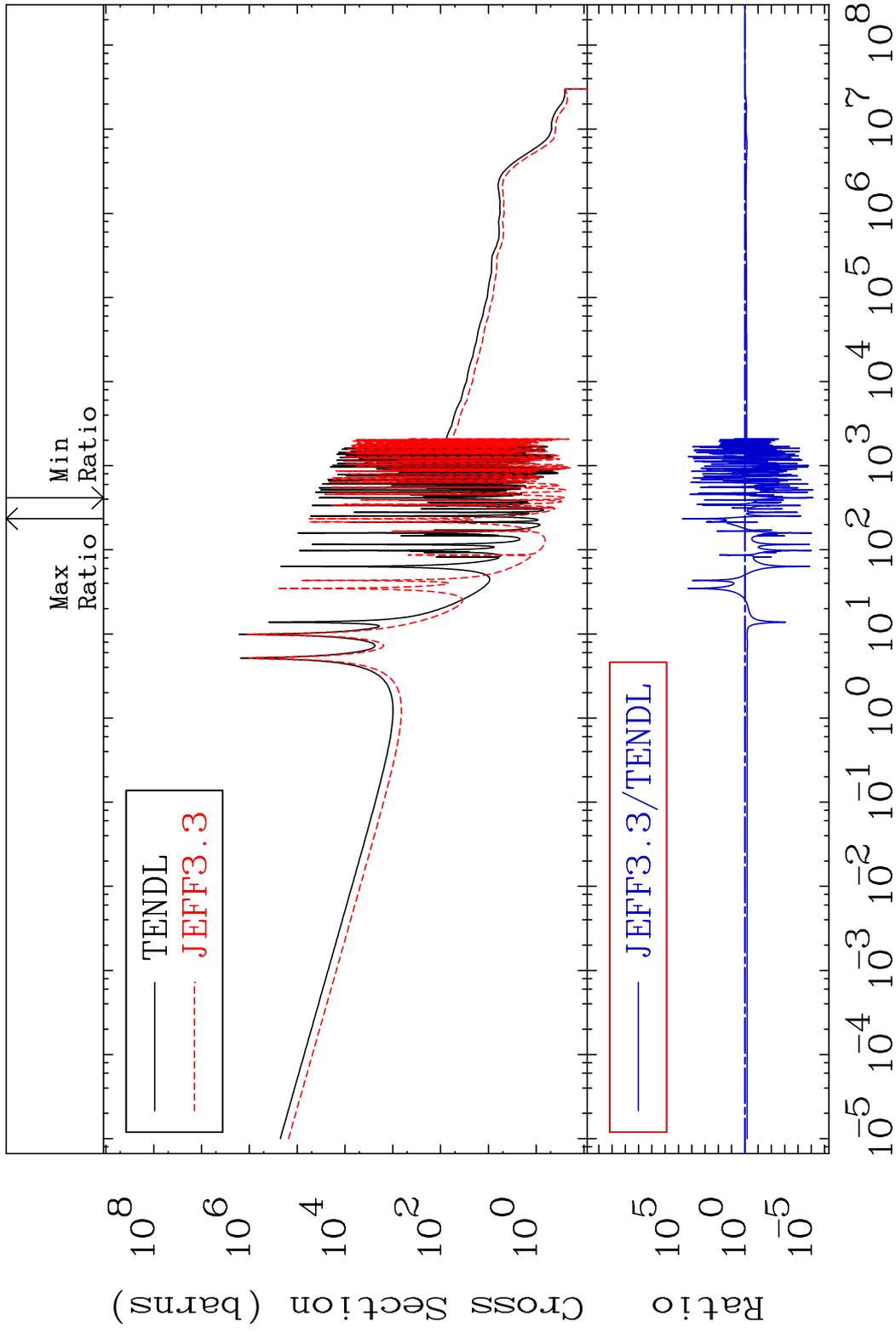
MAT 5425 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-124  
 Cross Section -73.32 To 9.111 %



MAT 5425

Kerma capture (mt102) 54-Xe-124

Cross Section -100.0 To 9999. %

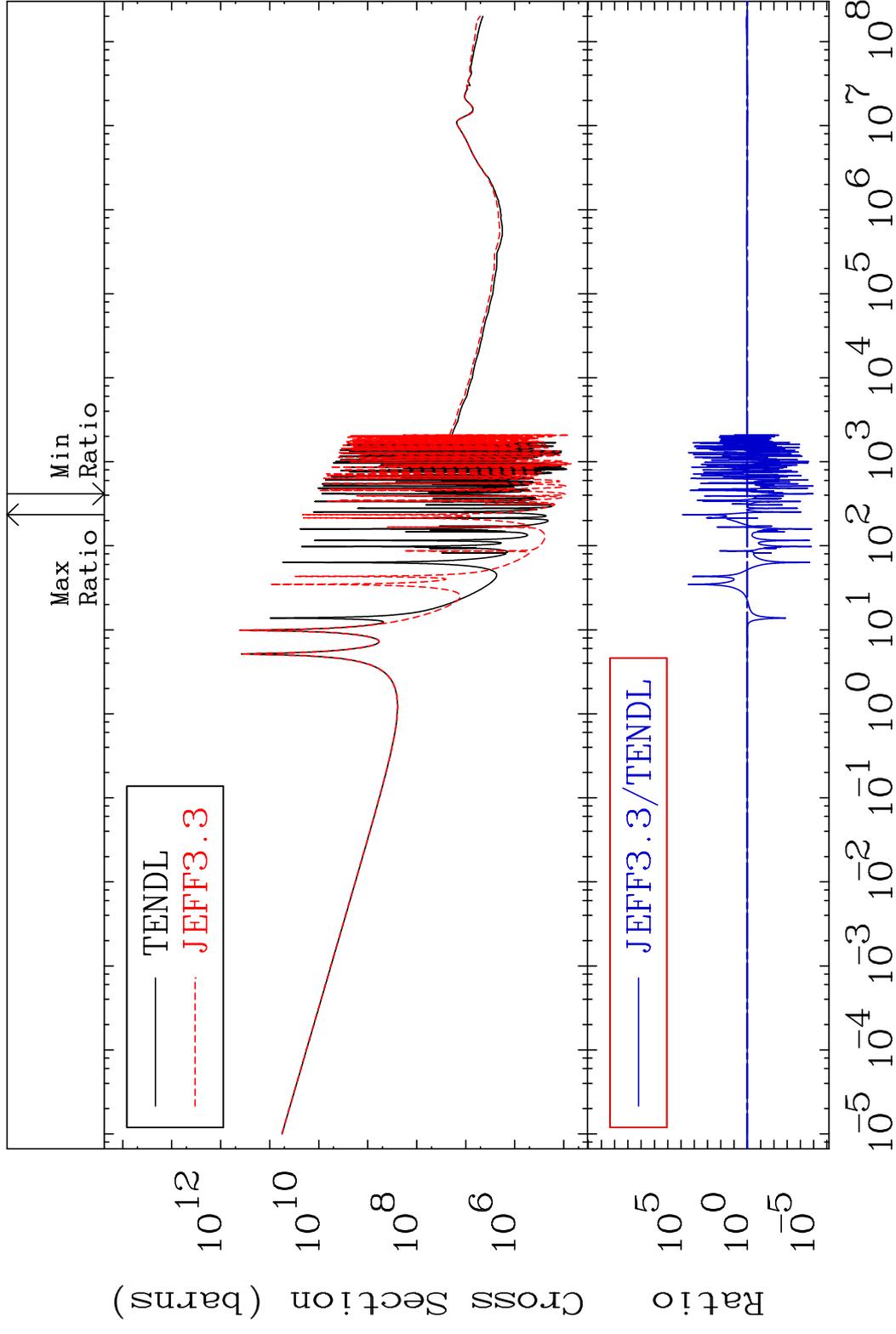


60

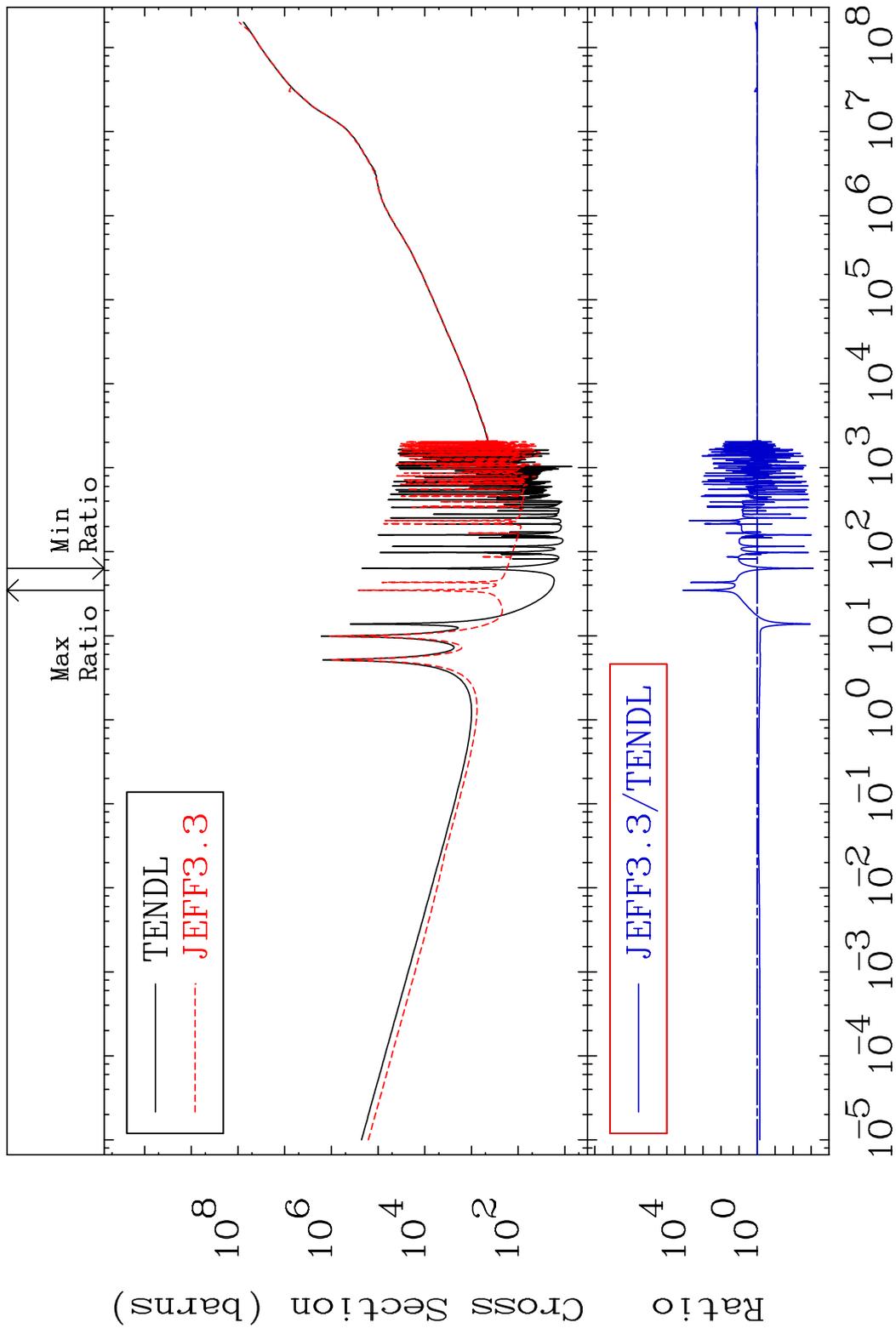
Incident Energy (eV)

54-Xe-124

MAT 5425 Total photon (eV-barns) 54-Xe-124  
 Cross Section -100.0 To 9999. %



MAT 5425 Total kinematic kerma (high limit) 54-Xe-124  
 Cross Section -99.92 To 9999. %

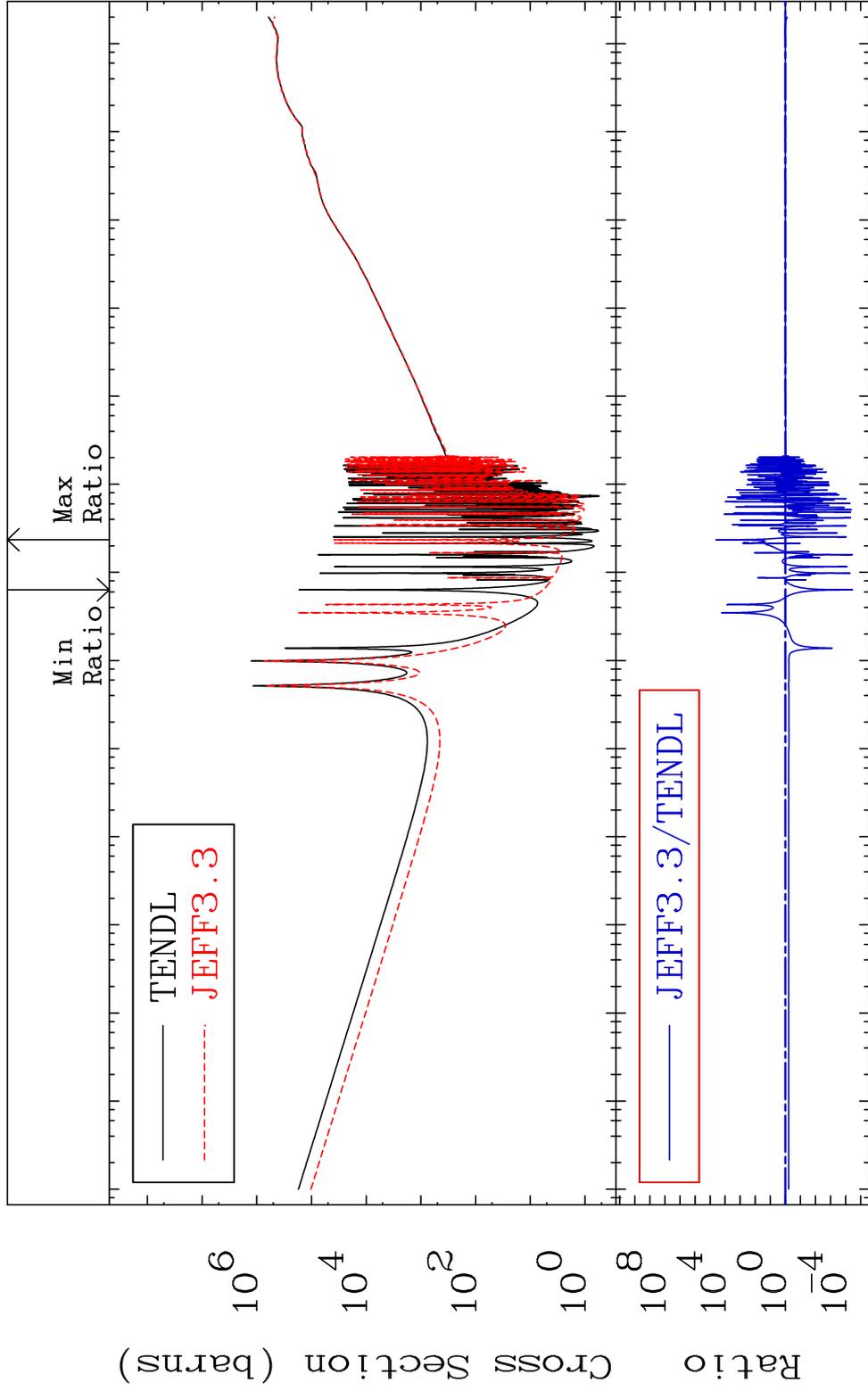


MAT 5425

Dpa total (eV-barns)

54-Xe-124

Cross Section -100.0 To 9999. %



63

Incident Energy (eV)

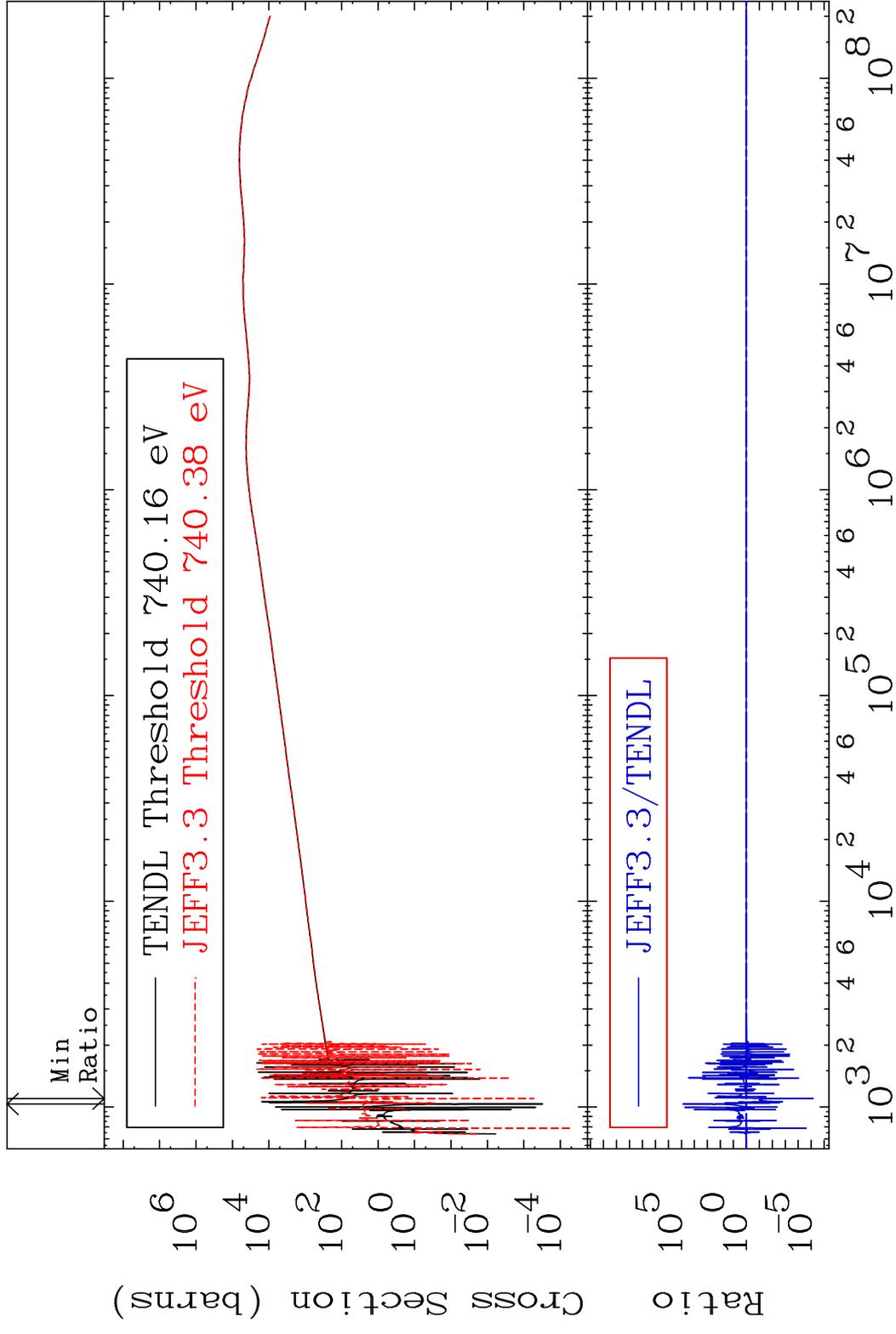
54-Xe-124

MAT 5425

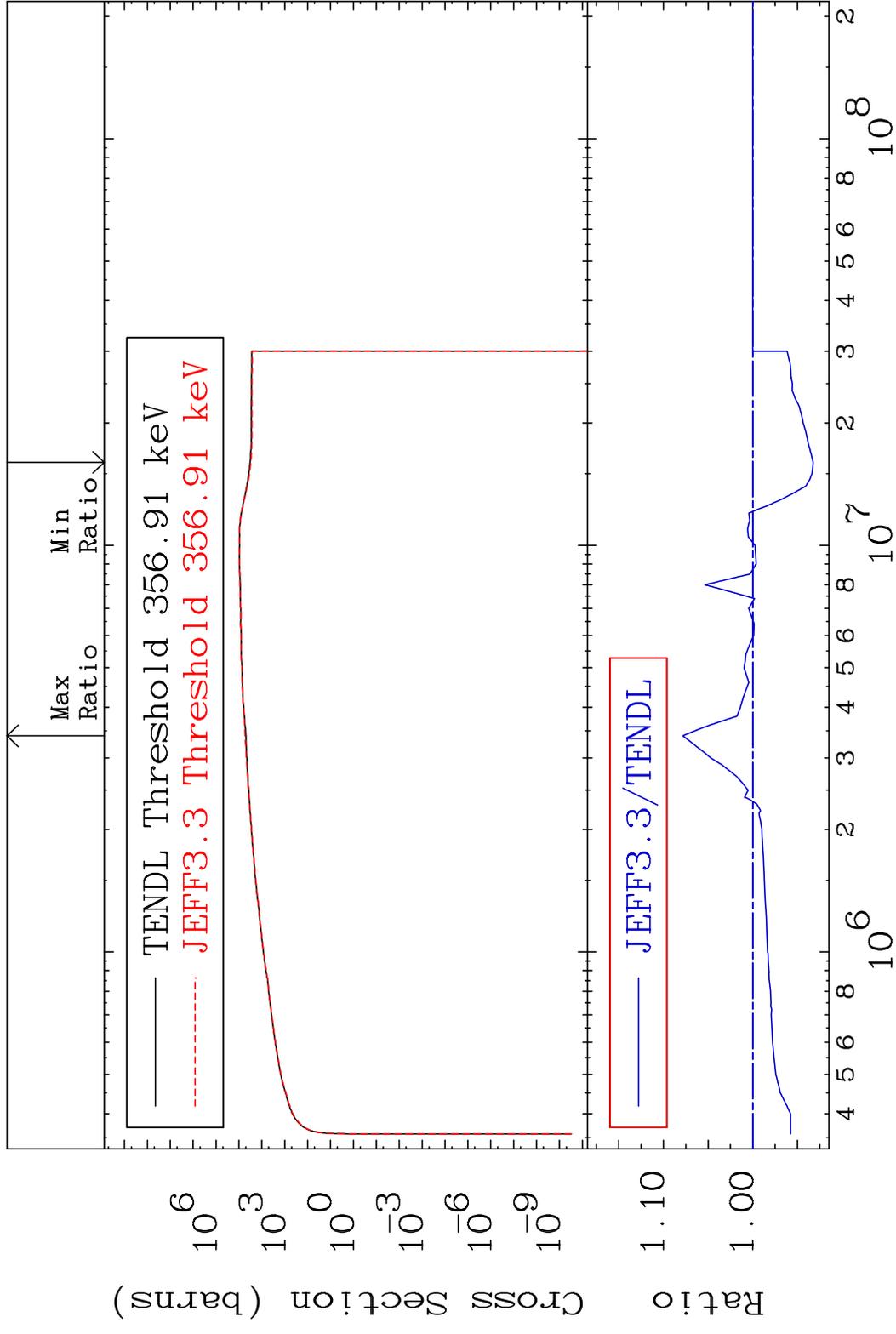
Dpa elastic (mt2)

54-Xe-124

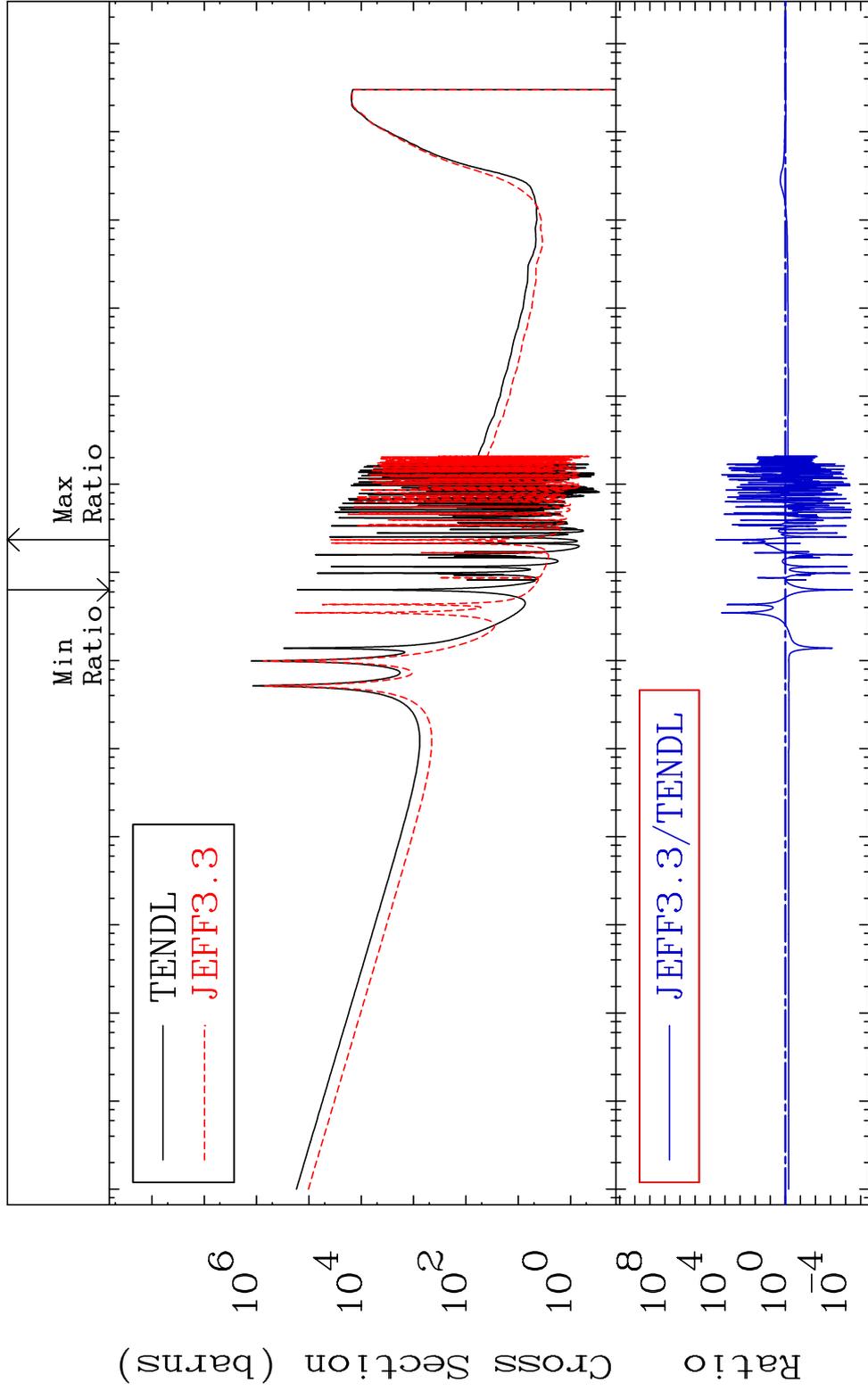
Cross Section -100.0 To 9999. %

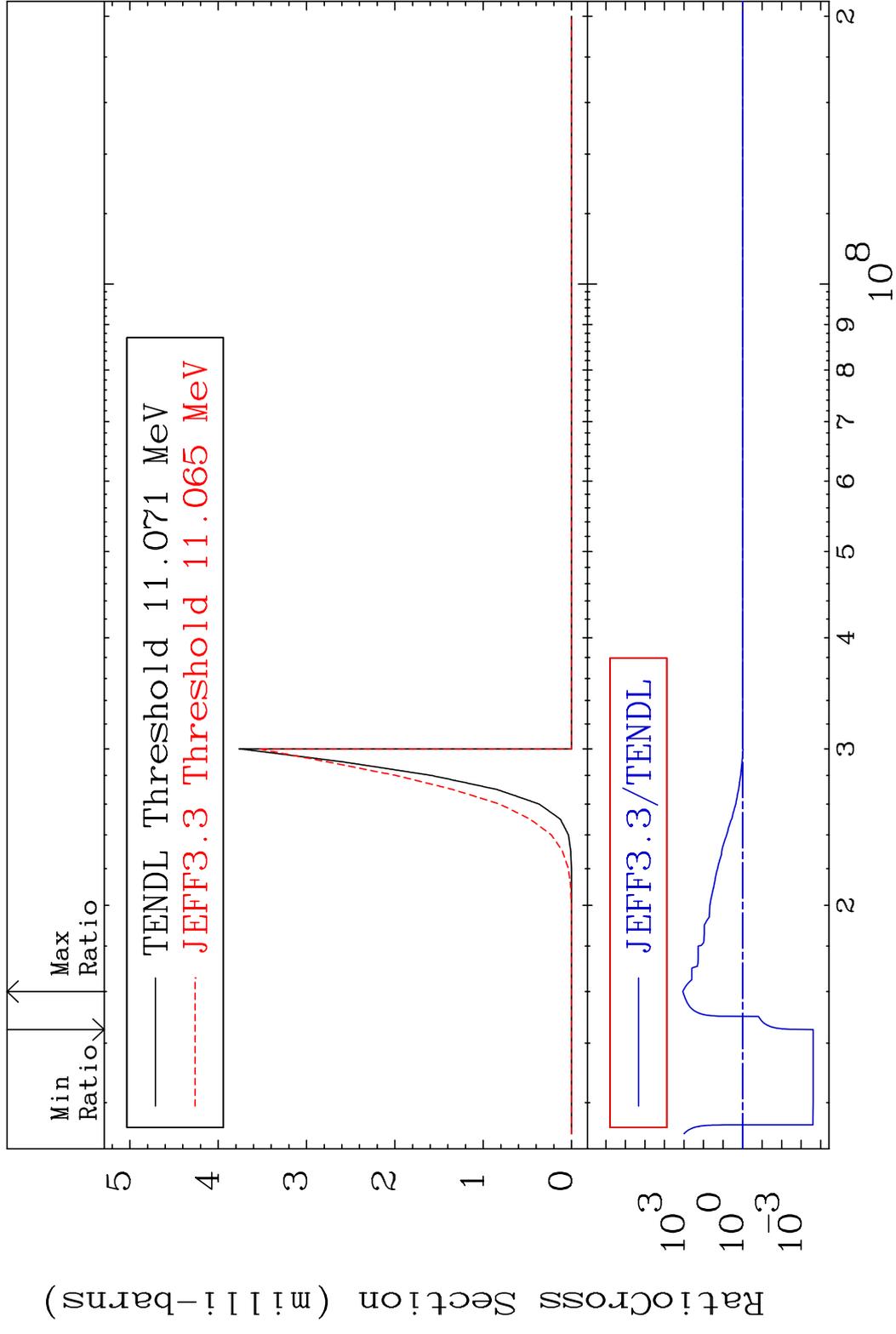


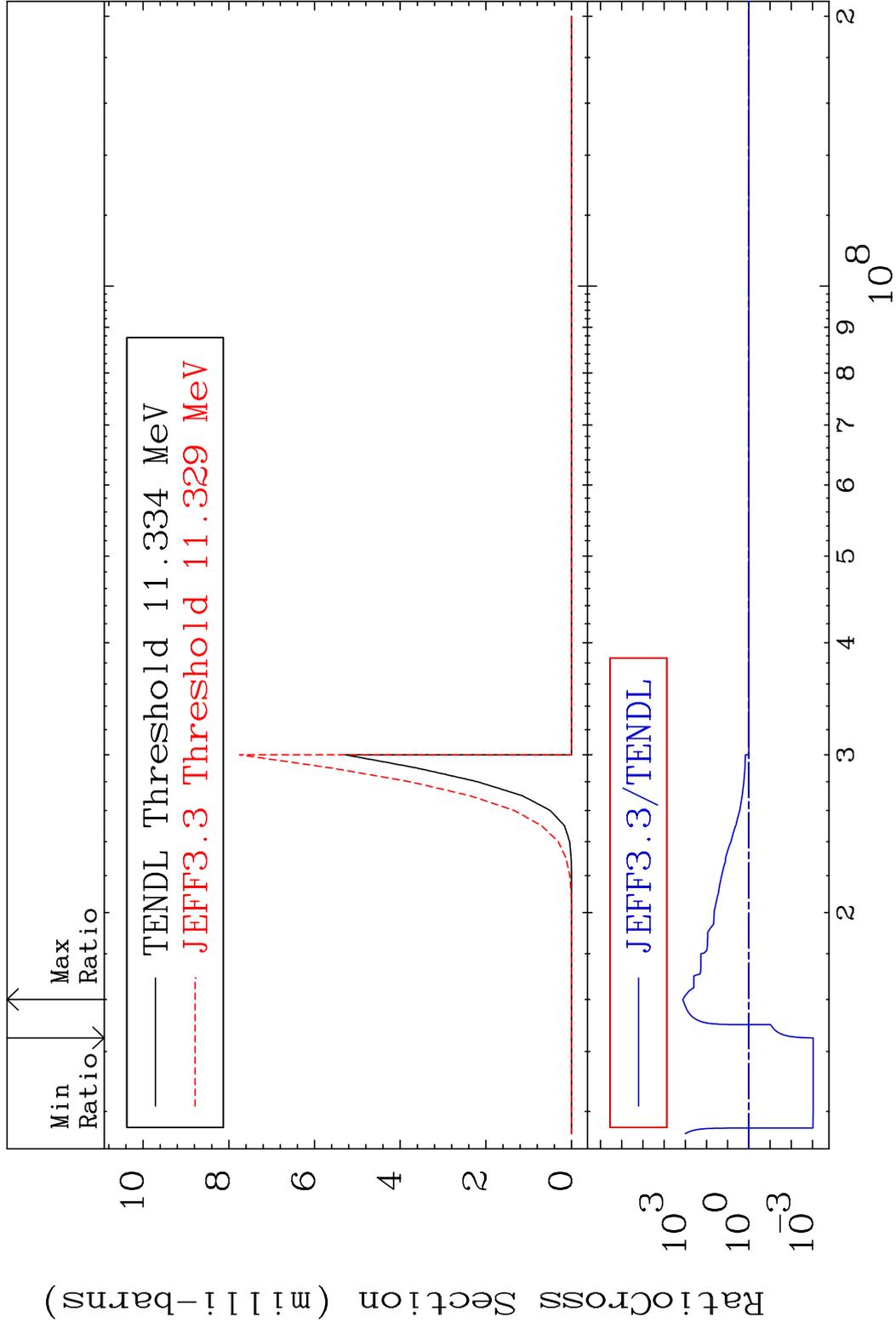
MAT 5425 Dpa inelastic (mt51-91) 54-Xe-124  
 Cross Section -6.757 To 7.827 %

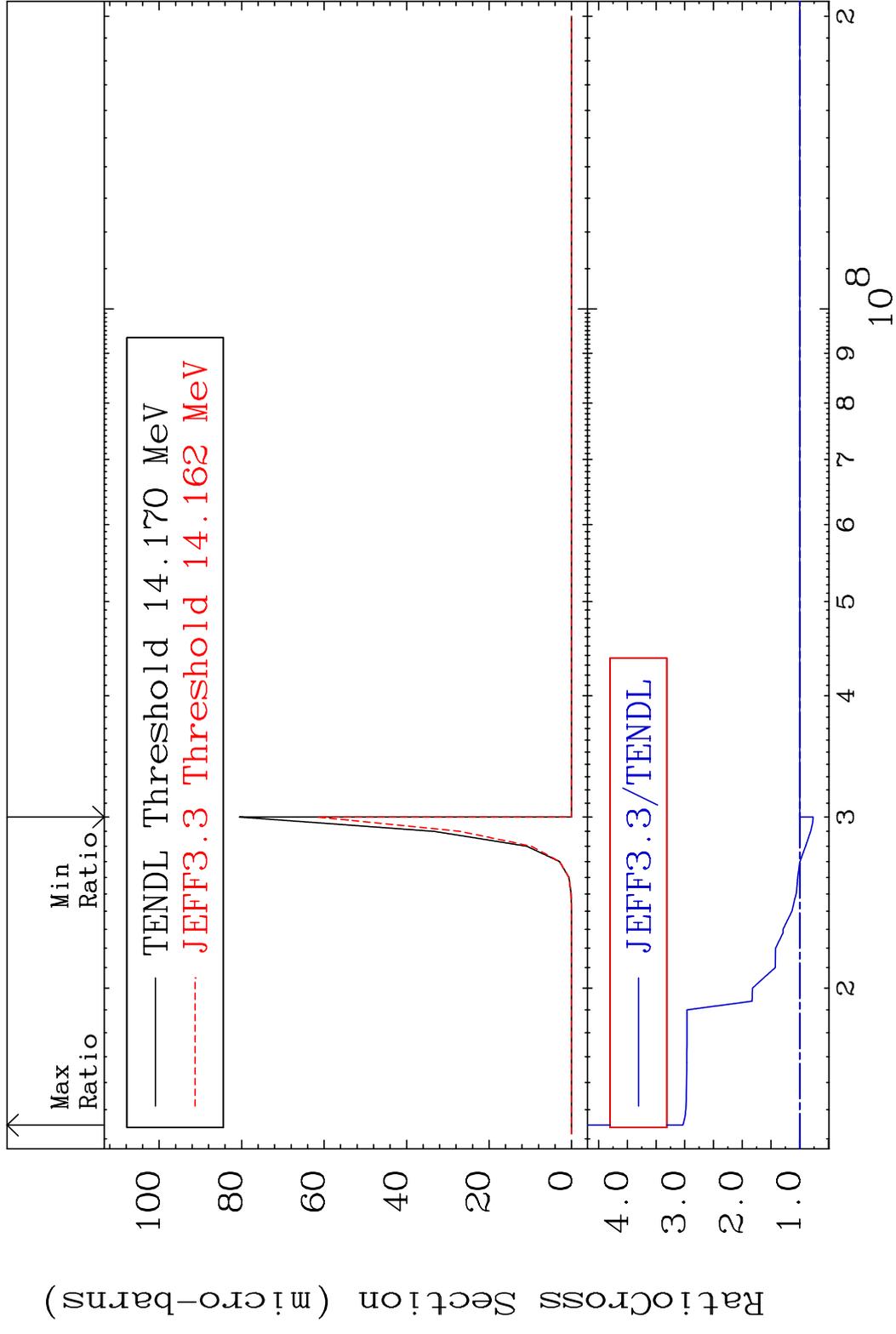


MAT 5425 Dpa disappearance (mt102 -120) 54-Xe-124  
 Cross Section -100.0 To 9999. %

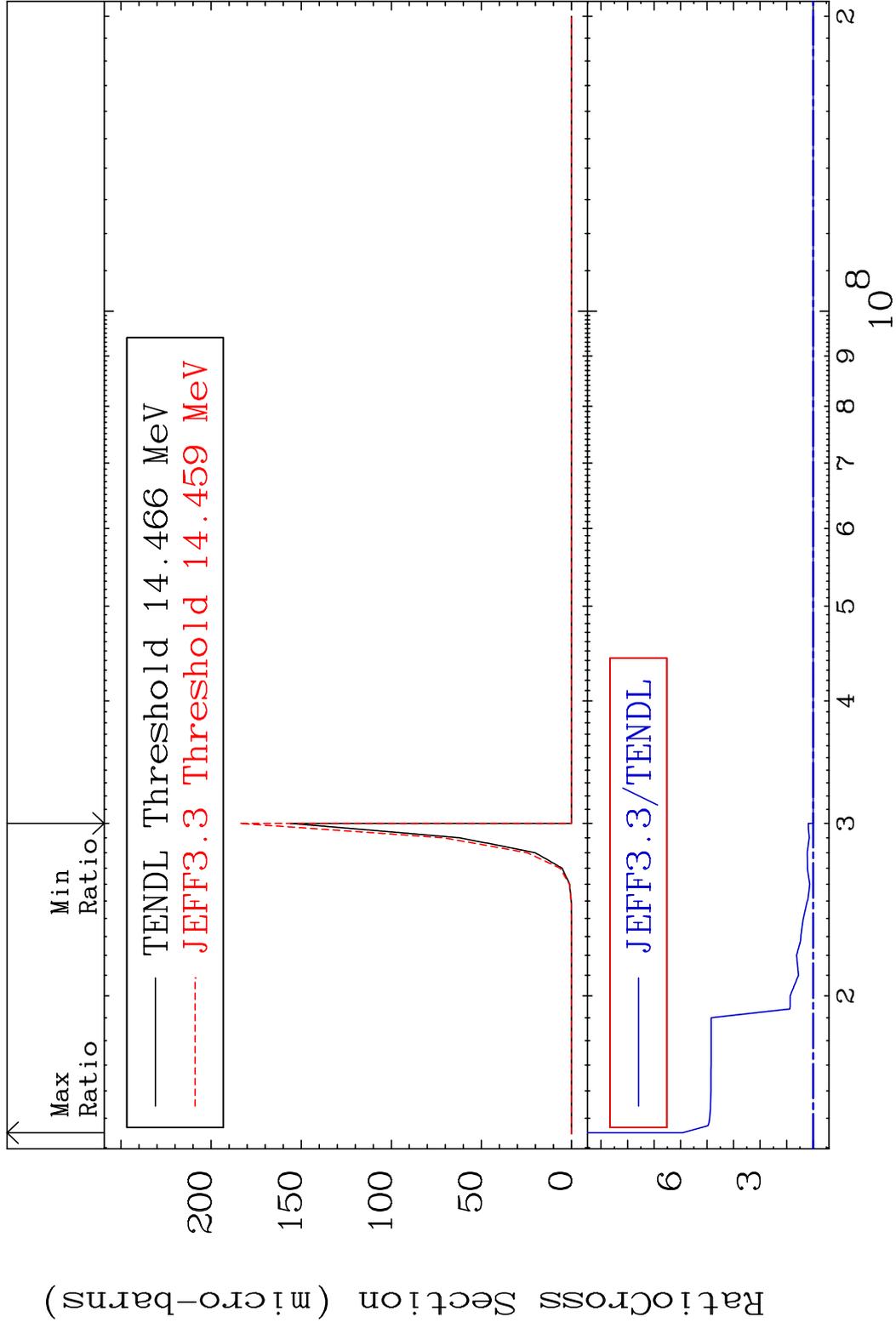




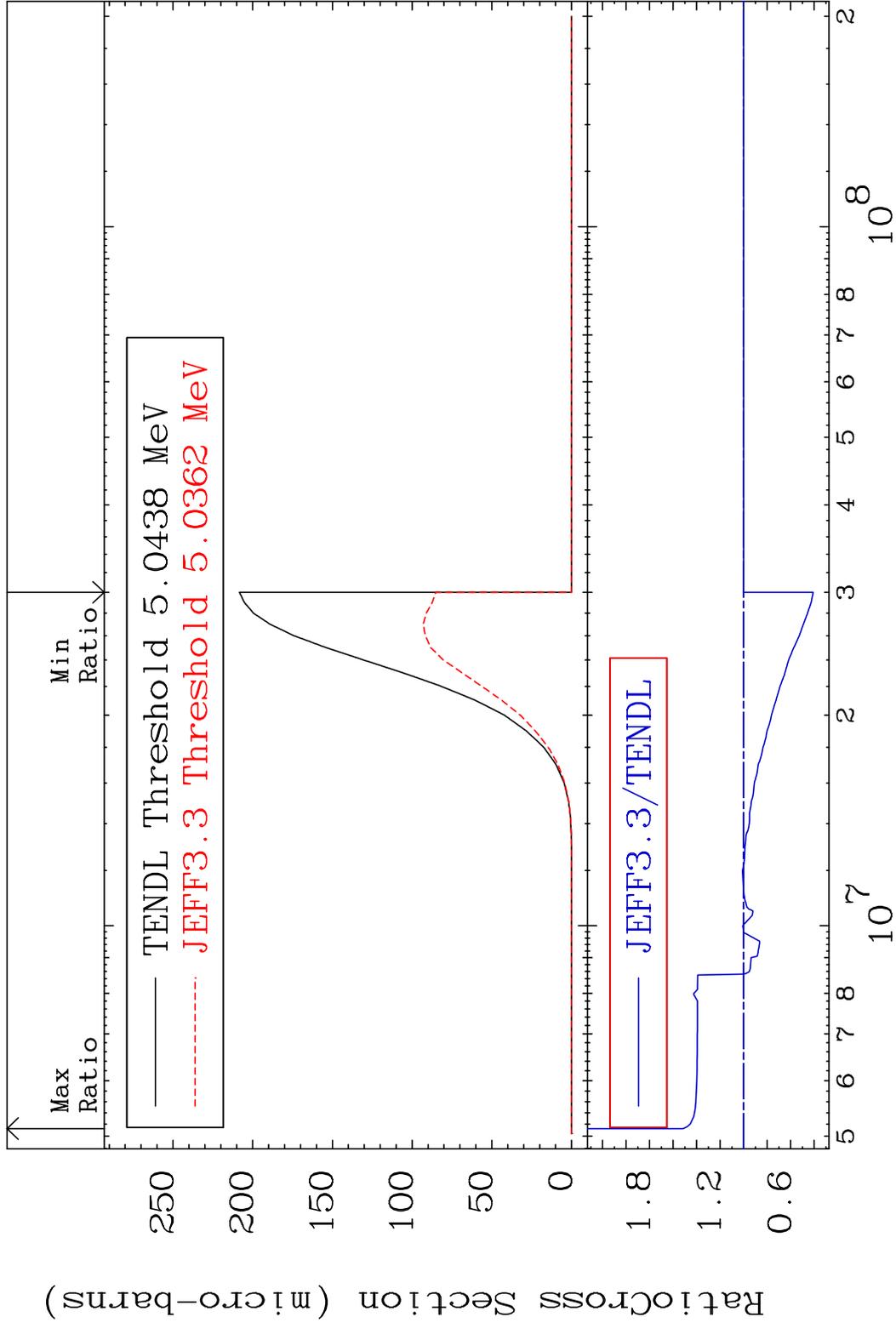




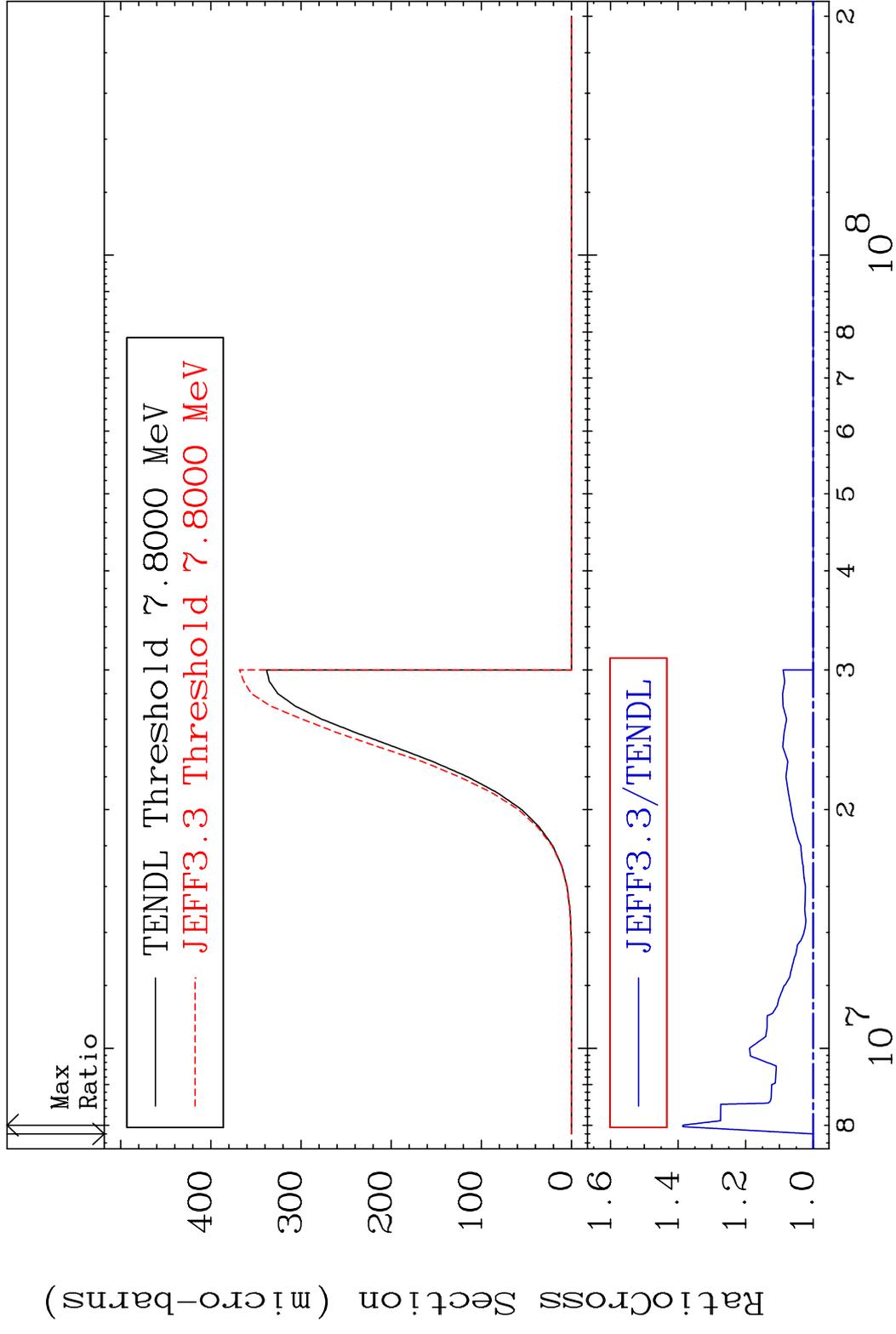
MAT 5425 (n, n') He-3:52-Te-121m2 54-Xe-124  
 Radionuclide Production Cross Section 491.5 %



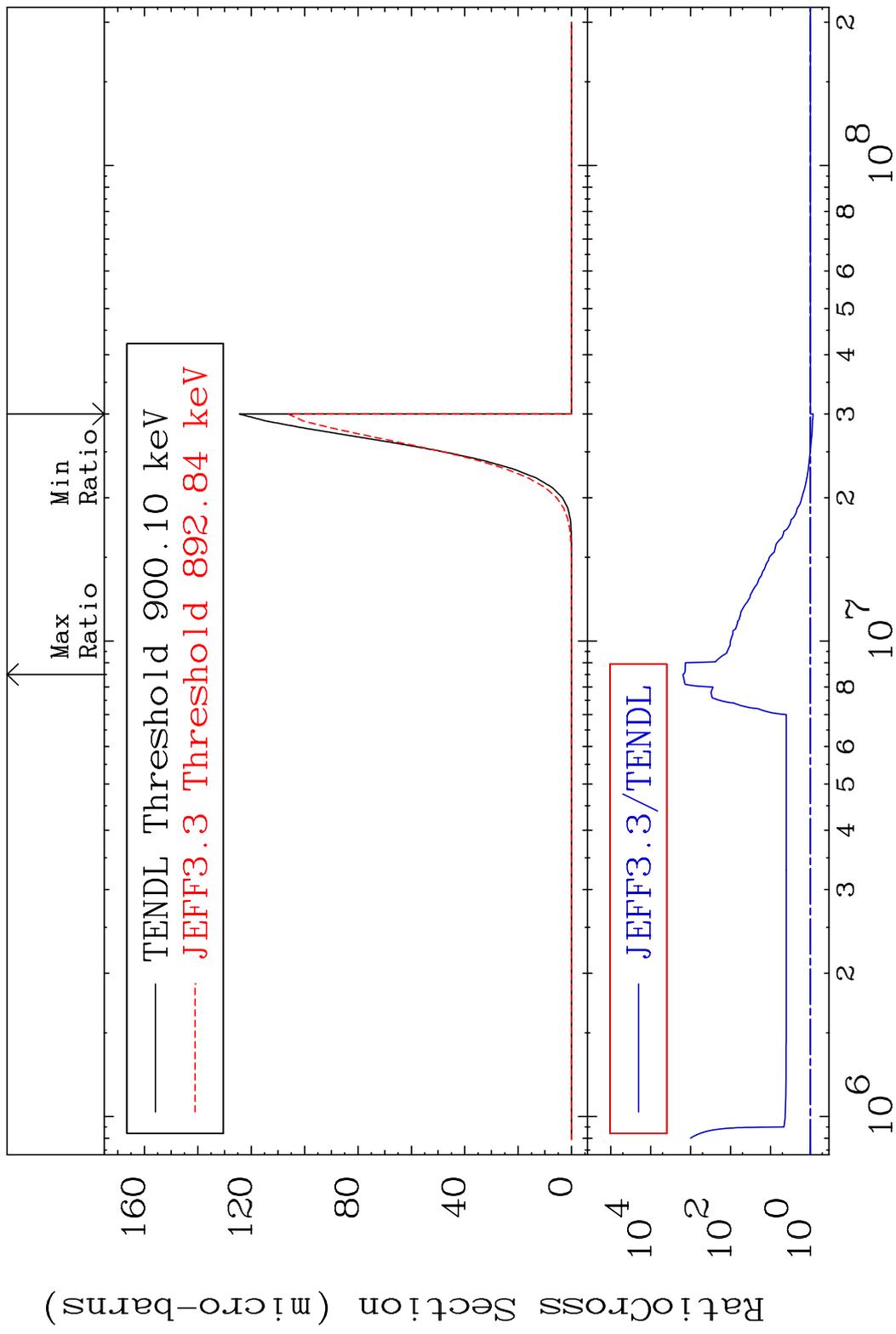
MAT 5425 (n,2p):52-Te-123g 54-Xe-124  
 Radionuclide Production Cross Section 51.72 %



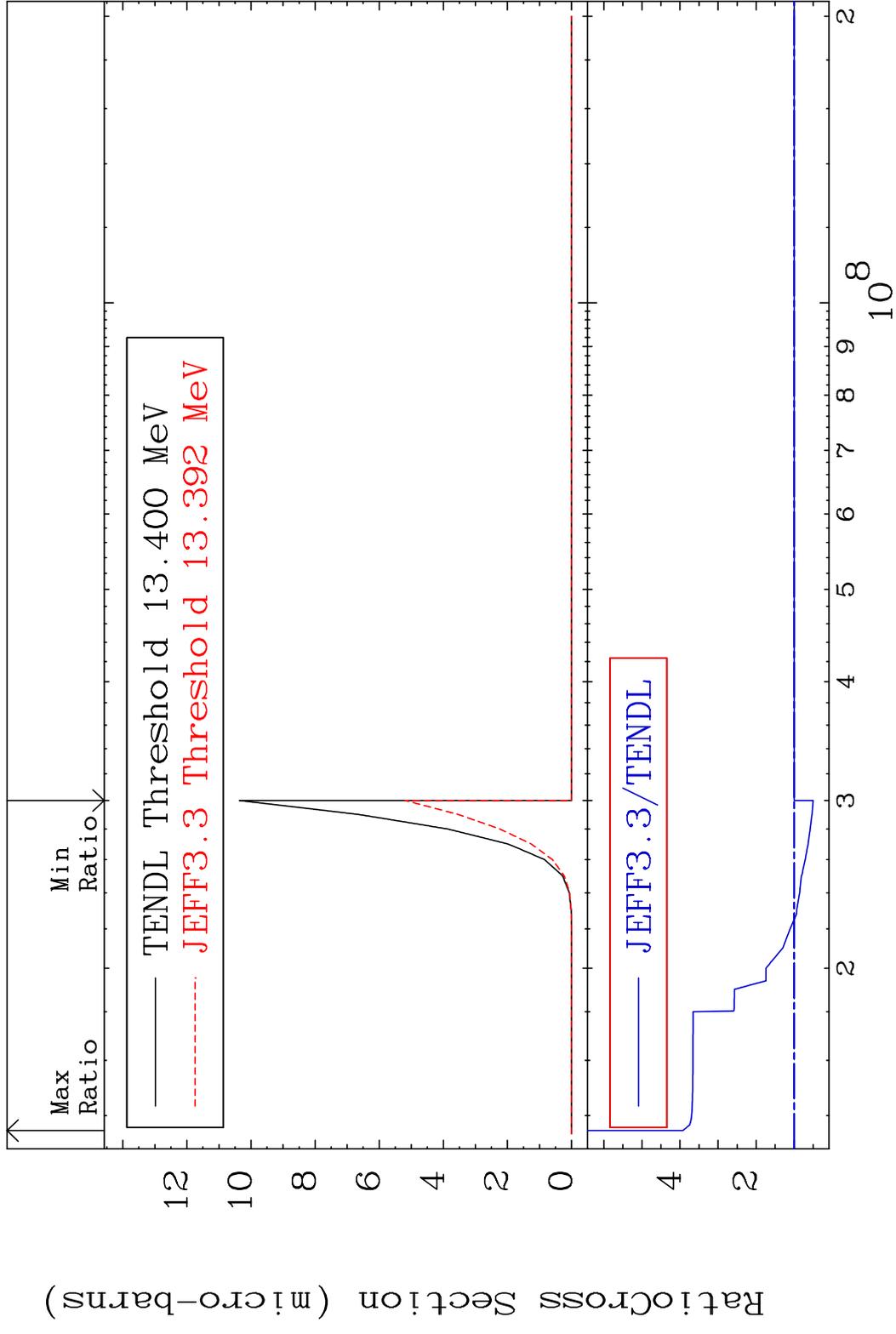
MAT 5425 (n,2p):52-Te-123m2 54-Xe-124  
 Radionuclide Production Cross Section 38.60 %



MAT 5425 (n, p)  $\alpha$ :51-Sb-120g 54-Xe-124  
 Radionuclide Production Cross Section 9999. %



MAT 5425 (n,p) t:52-Te-121g 54-Xe-124  
 Radionuclide Production Cross Section 49.61 dth 292.6 %



MAT 5425 (n,p) t:52-Te-121m2 54-Xe-124  
 Radionuclide Production Cross Section 374.6 %

