

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

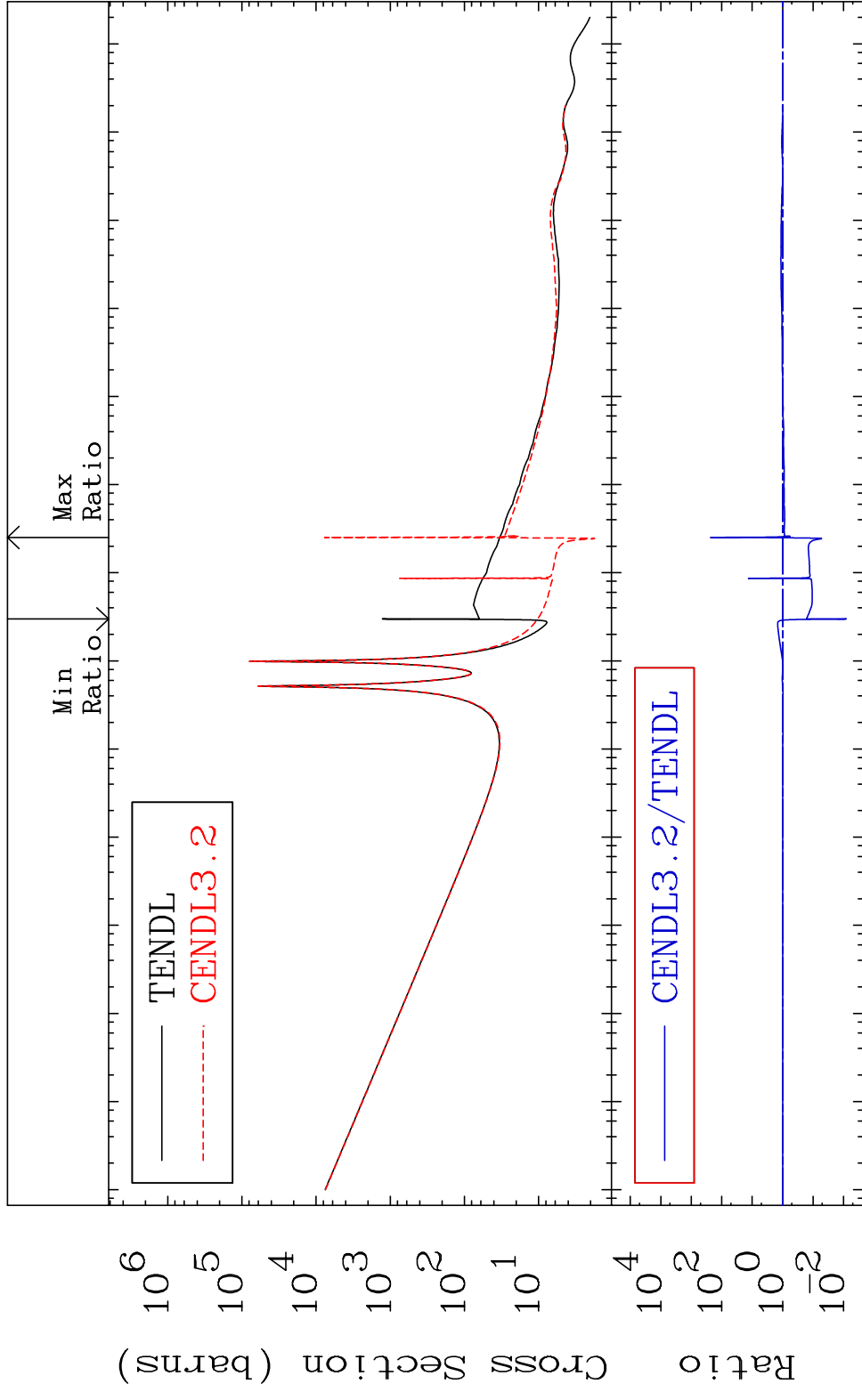
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5425

Total Cross Section -99.19 To 9999. %  
54-Xe-124



1

Incident Energy (eV)

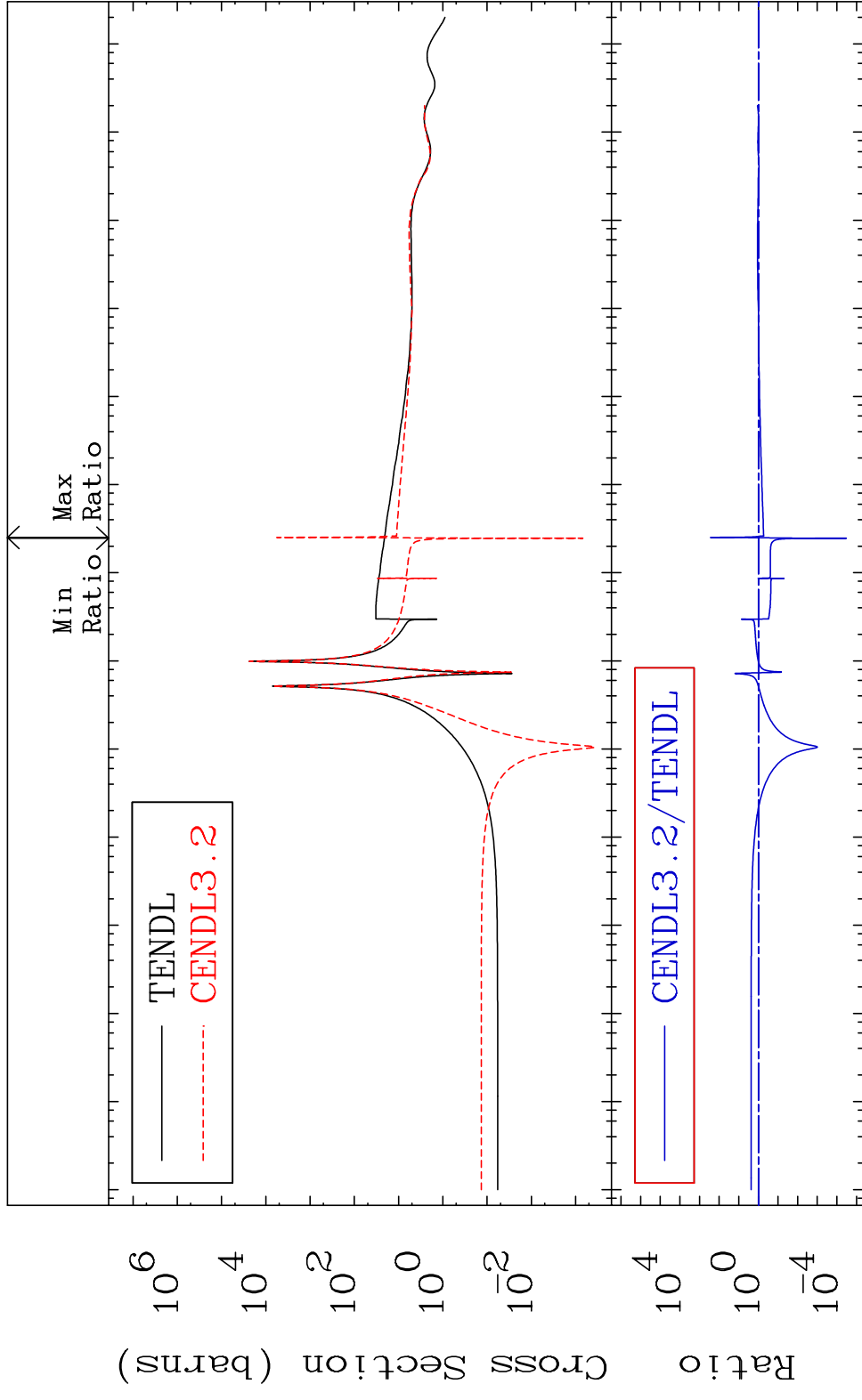
54-Xe-124

MAT 5425

54-Xe-124

Elastic

Cross Section -100.0 To 9999. %

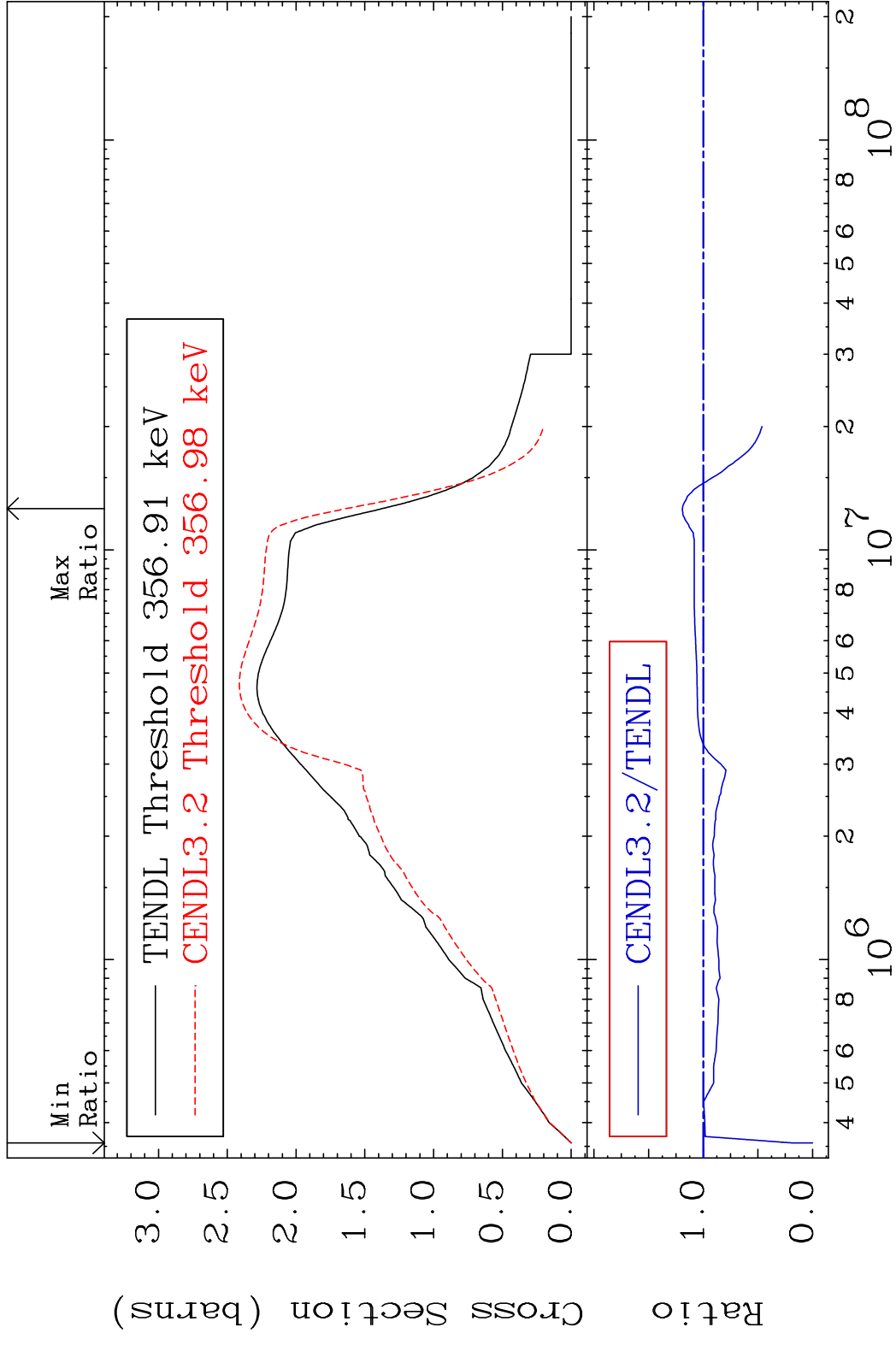


2

Incident Energy (eV)

54-Xe-124

MAT 5425 Inelastic 54-Xe-124  
 Cross Section -100.0 To 19.13 %



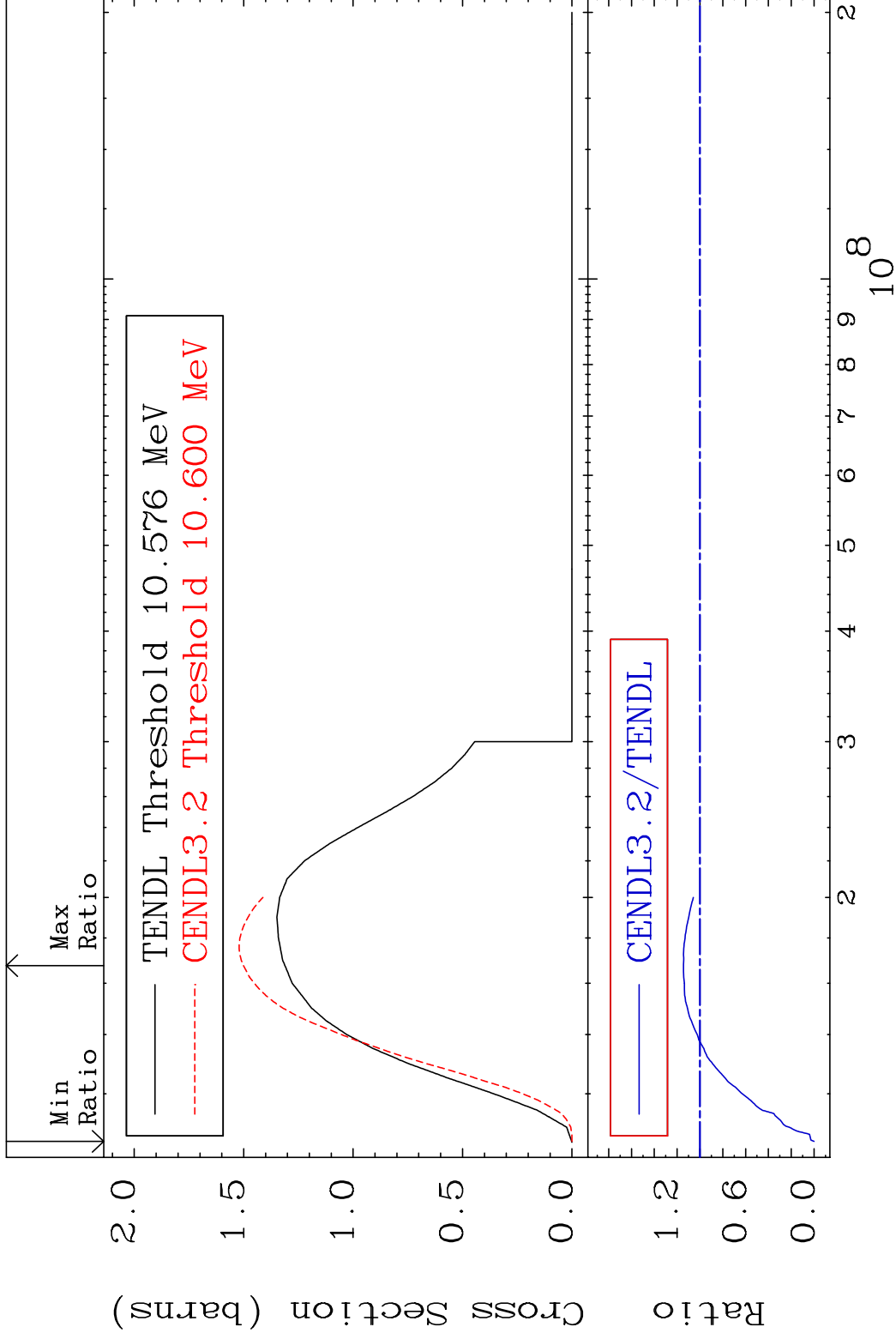
3 Incident Energy (eV) 54-Xe-124

MAT 5425

(n,2n)

54-Xe-124

Cross Section -100.0 To 14.47 %



4

Incident Energy (eV)

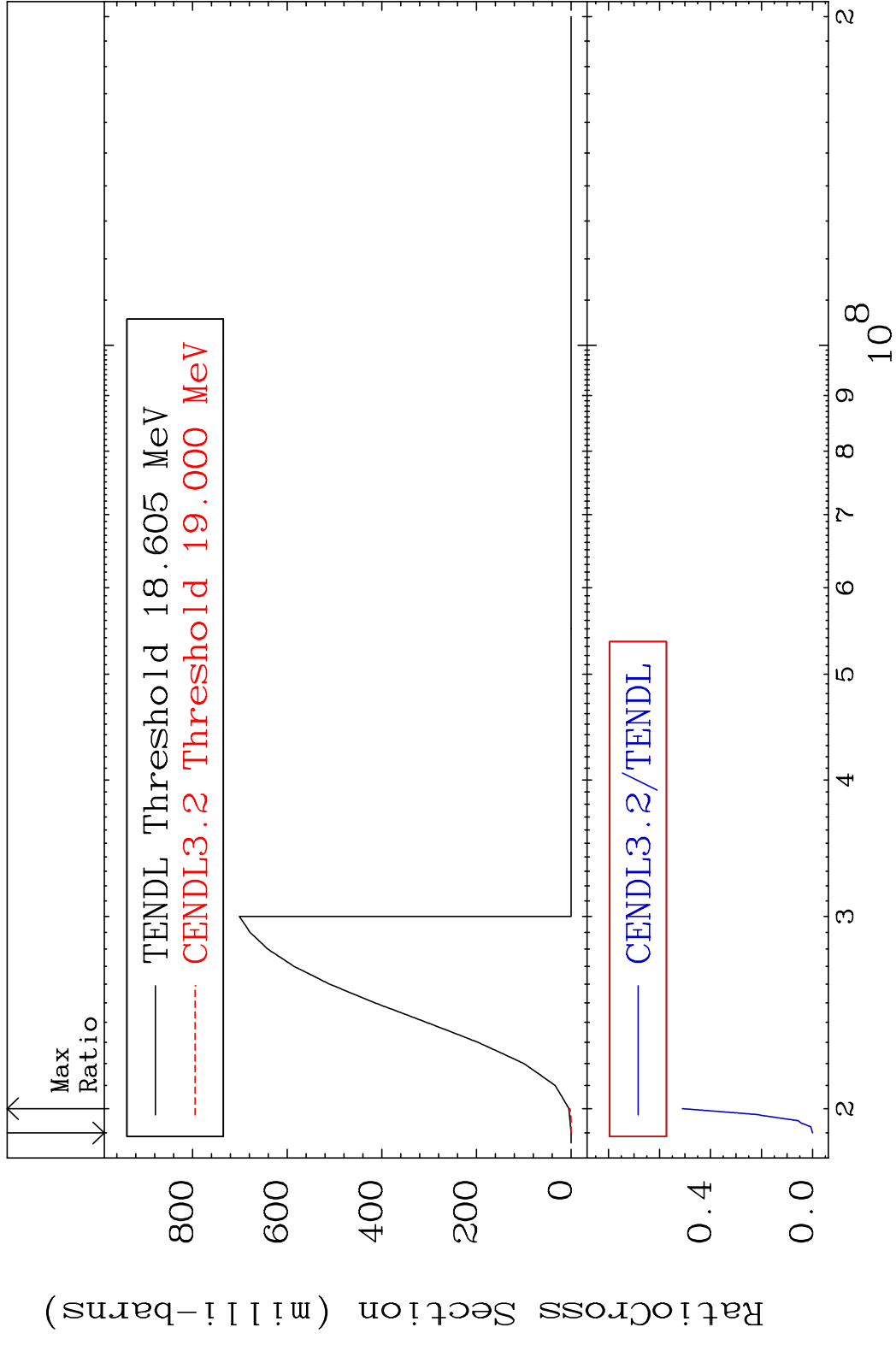
54-Xe-124

MAT 5425

(n,3n)

54-Xe-124

Cross Section -100.0 To -48.96%



5

Incident Energy (eV)

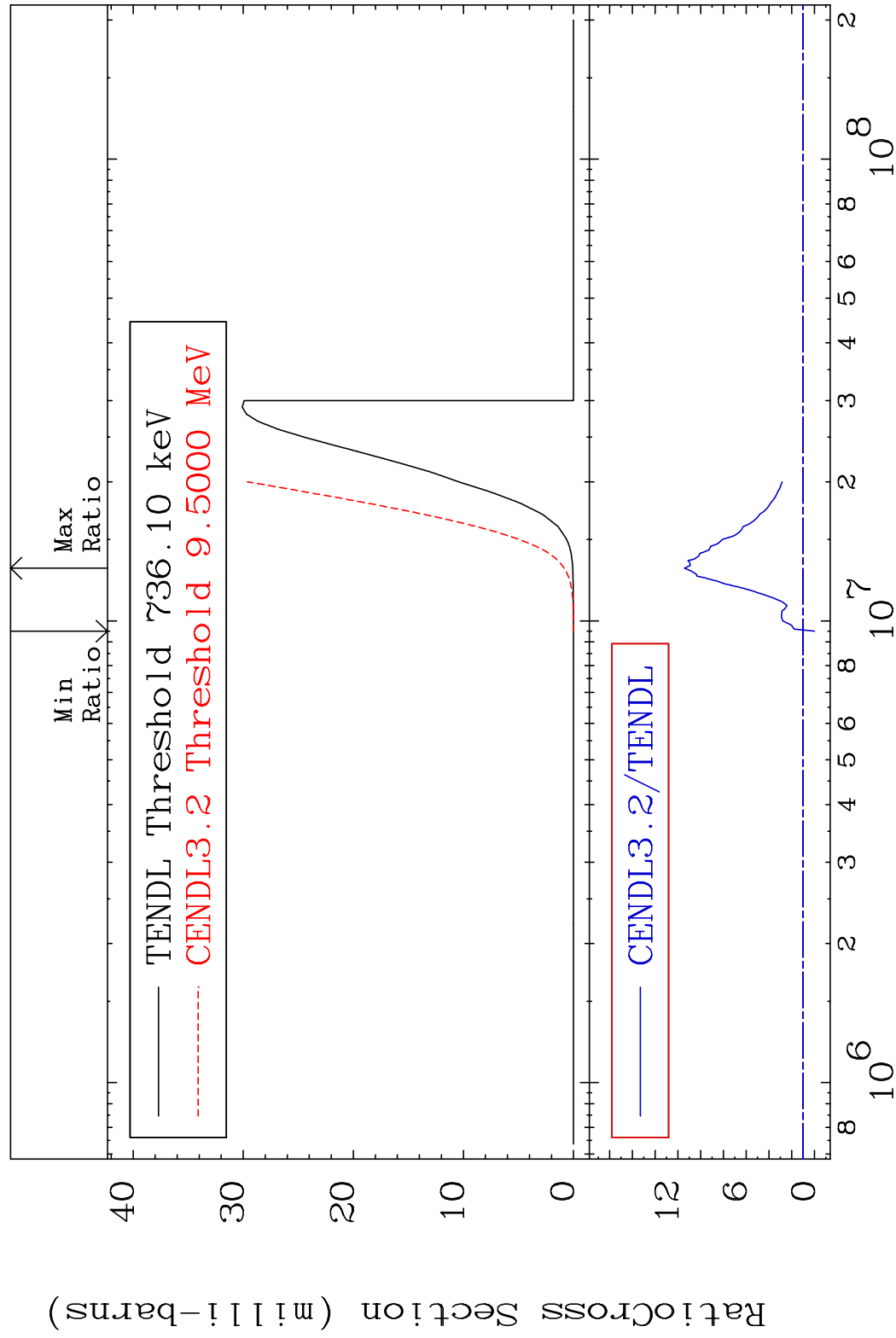
54-Xe-124

MAT 5425

(n, n')  $\alpha$

54-Xe-124

Cross Section -100.0 To 1042. %



6

Incident Energy (eV)

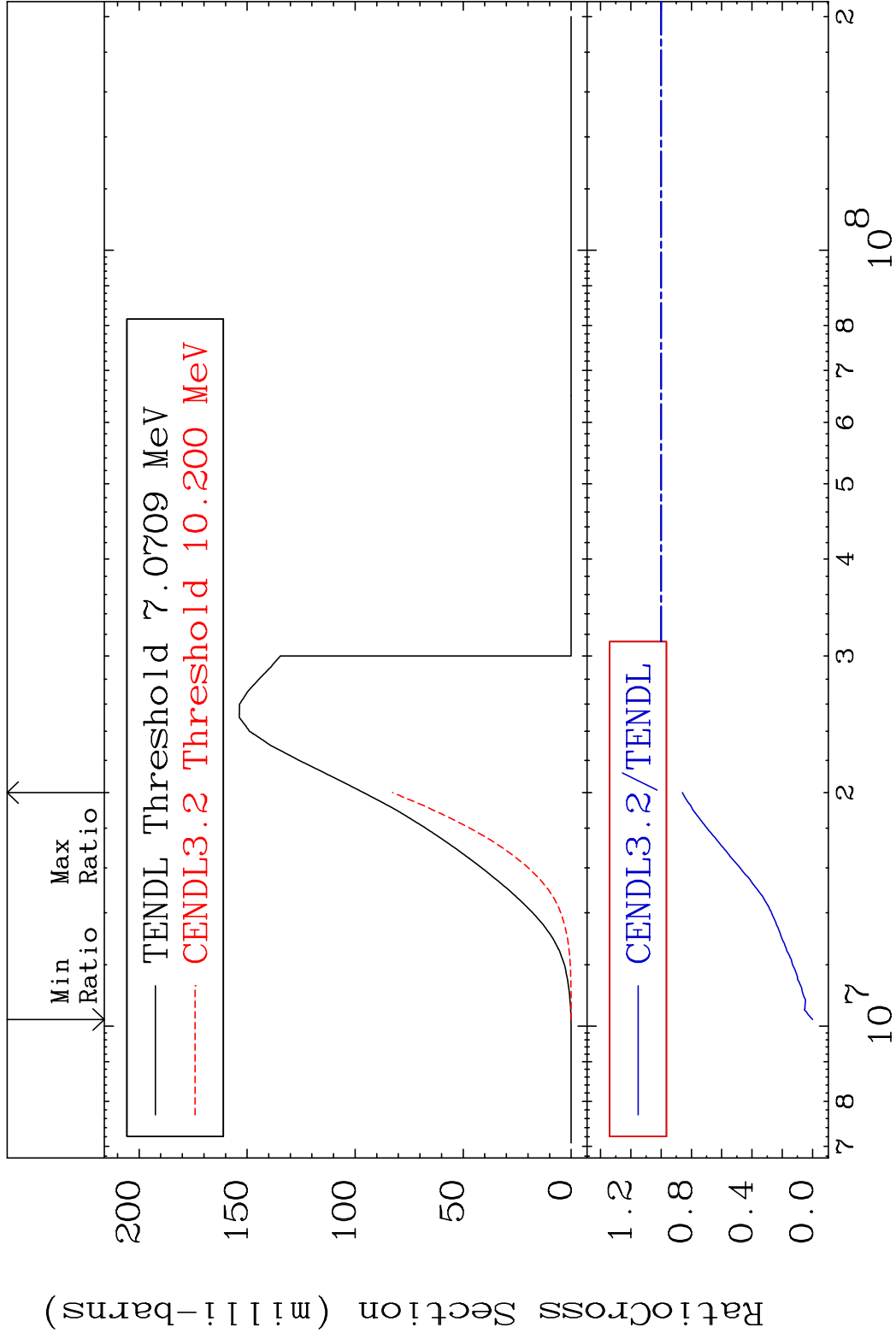
54-Xe-124

MAT 5425

(n, n') p

54-Xe-124

Cross Section -100.0 To -14.00%



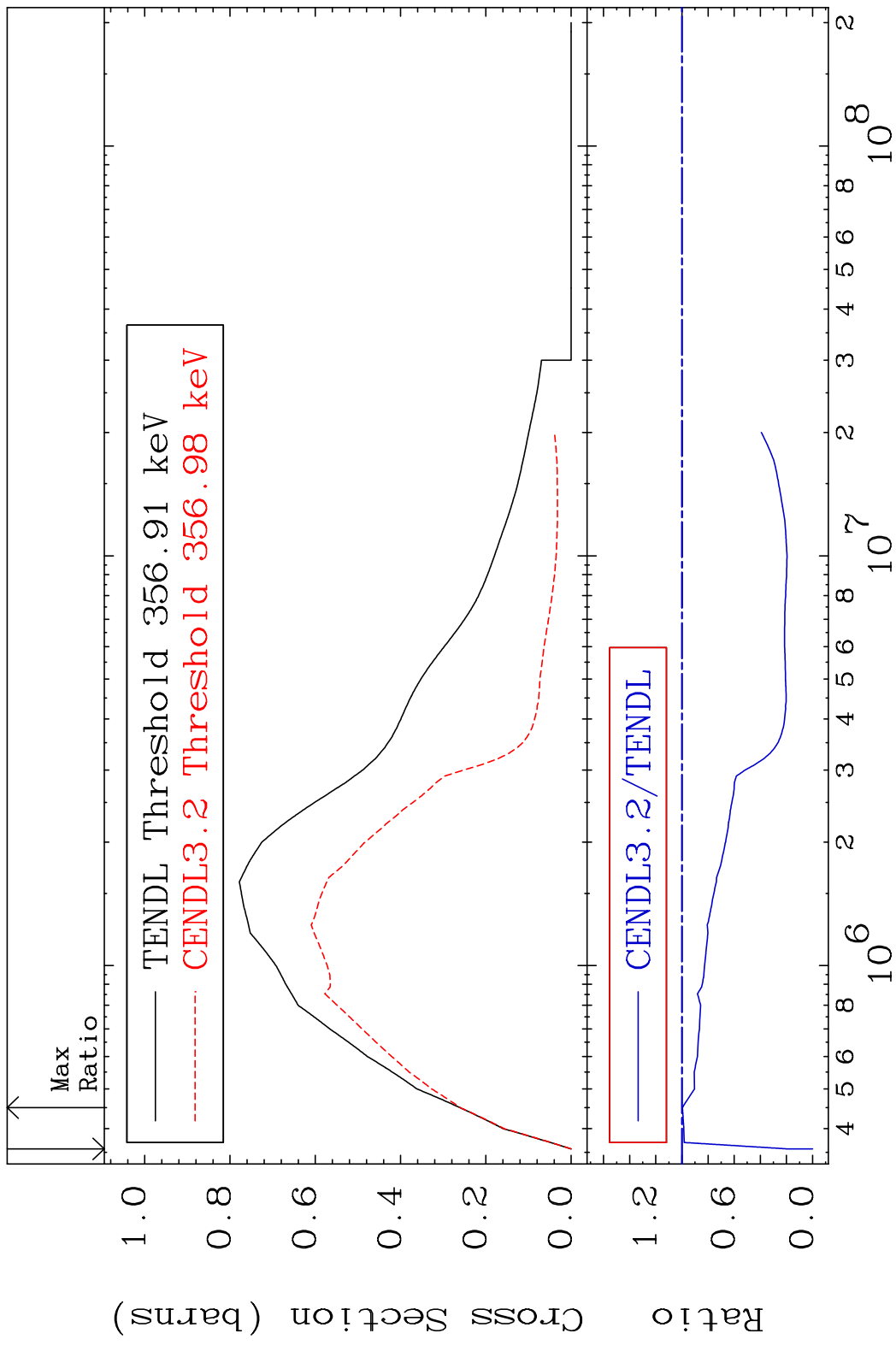
7

Incident Energy (eV)

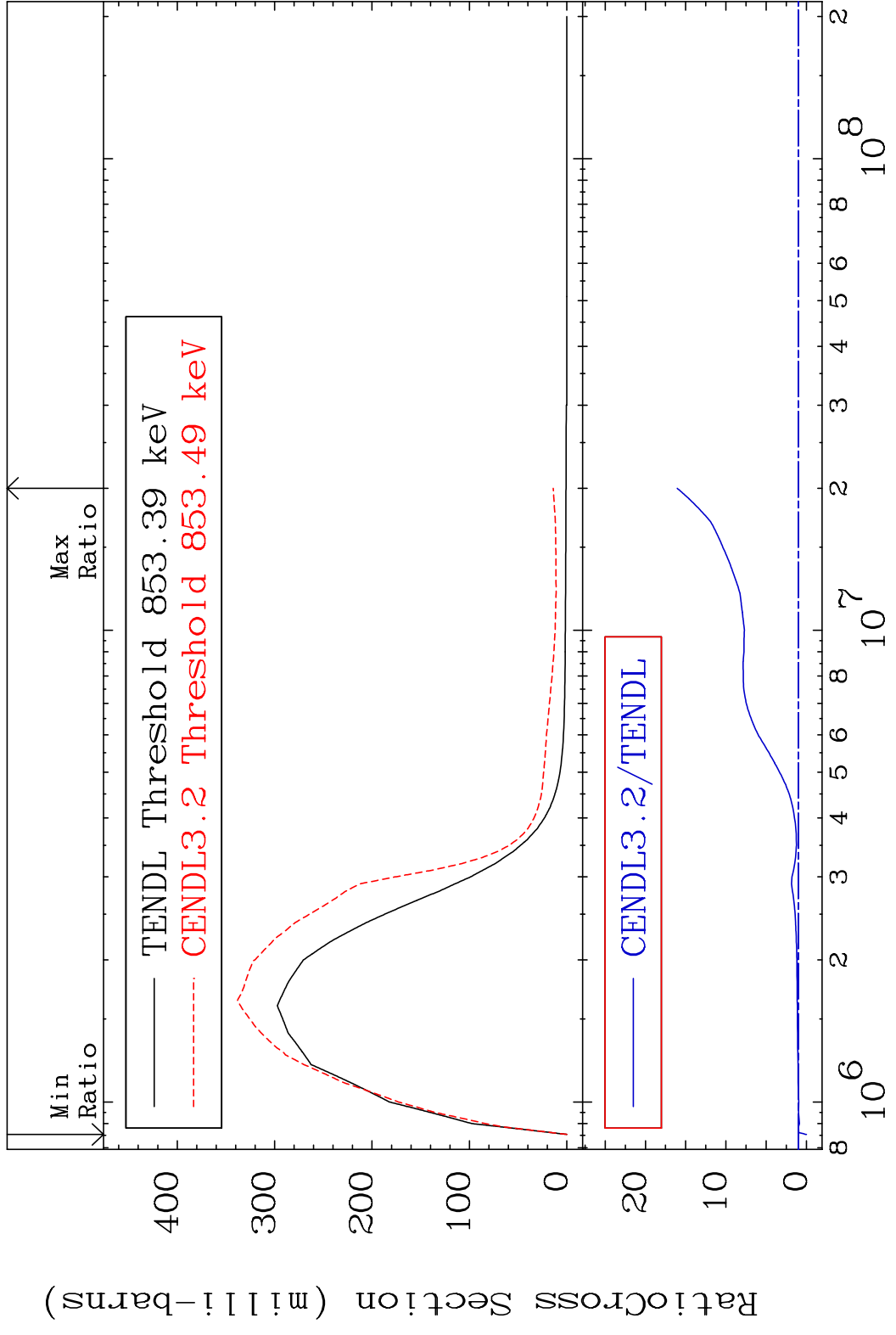
54-Xe-124



MAT 5425 MT= 51 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To -0.325%

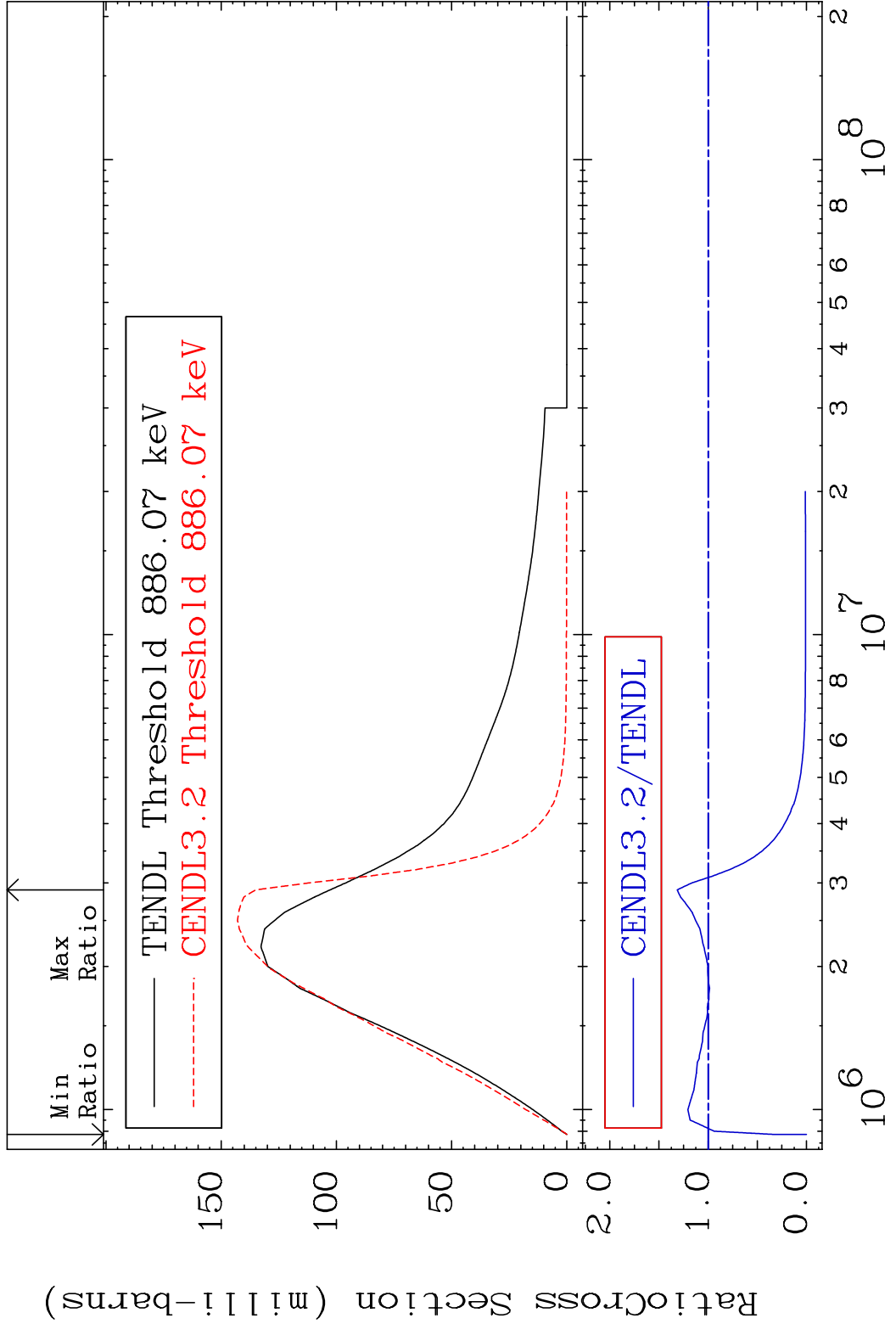


MAT 5425 MT= 52 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 1505. %



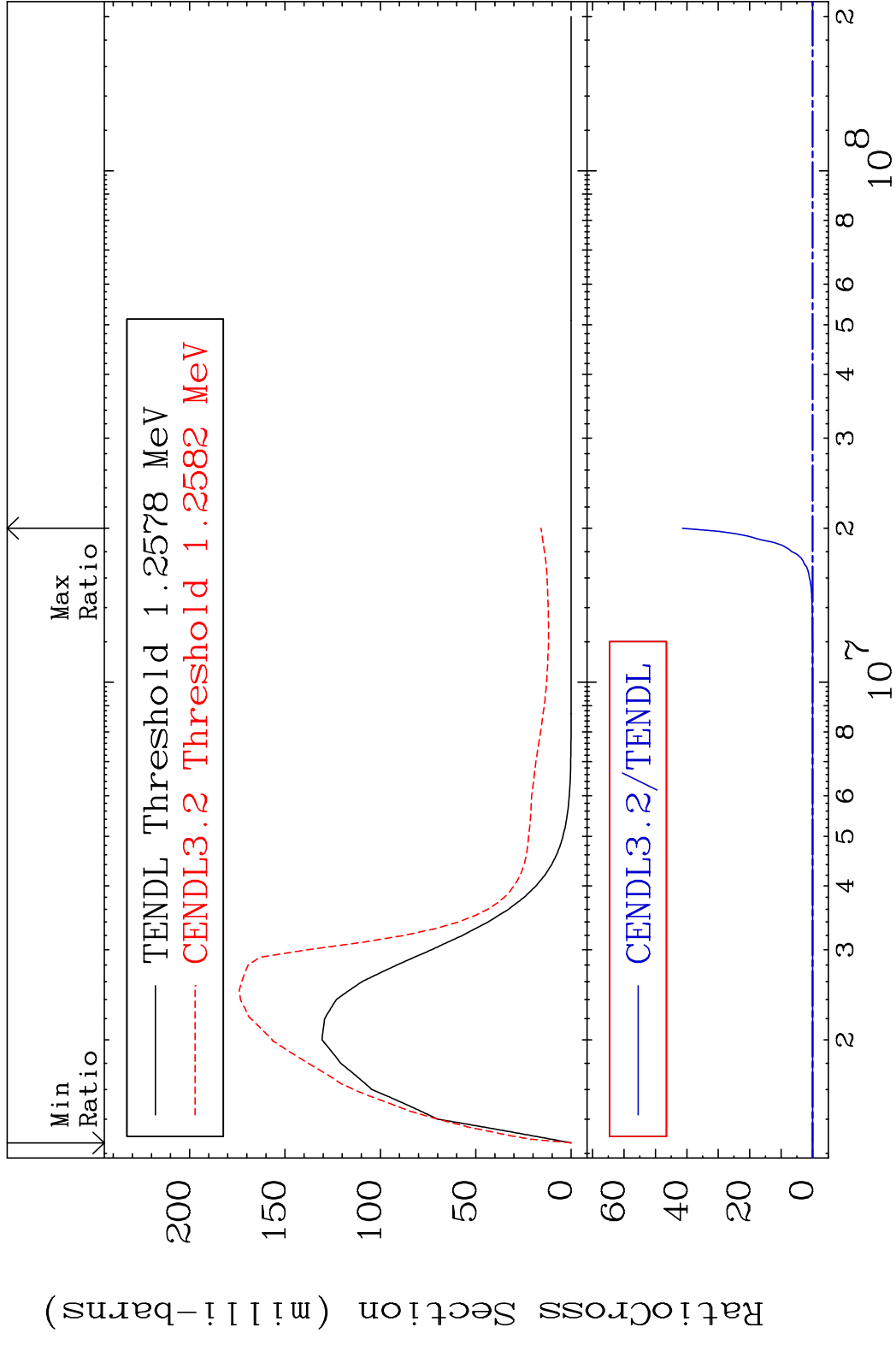
9 Incident Energy (eV) 54-Xe-124

MAT 5425 MT= 53 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 31.49 %

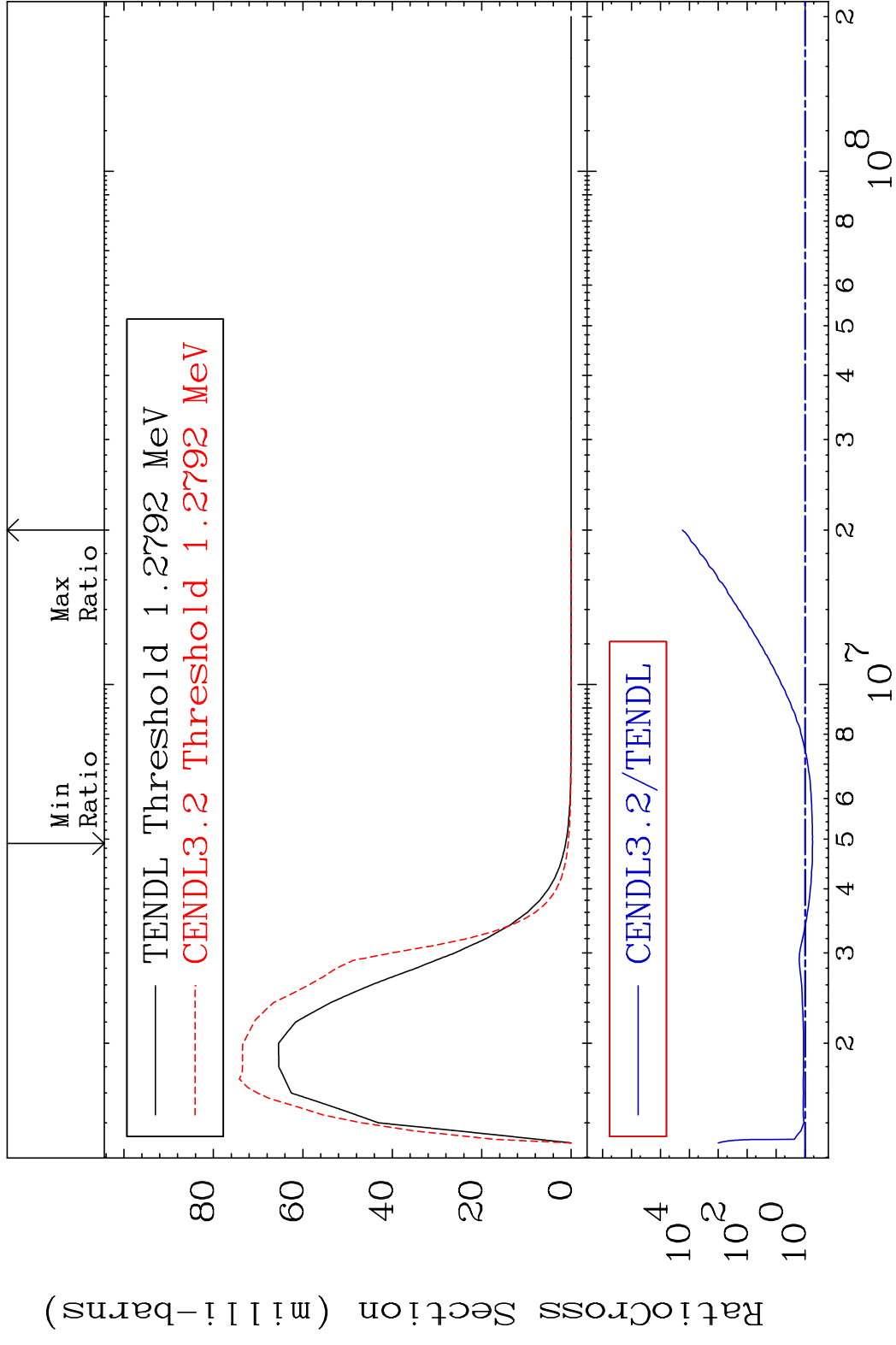


10 Incident Energy (eV) 54-Xe-124

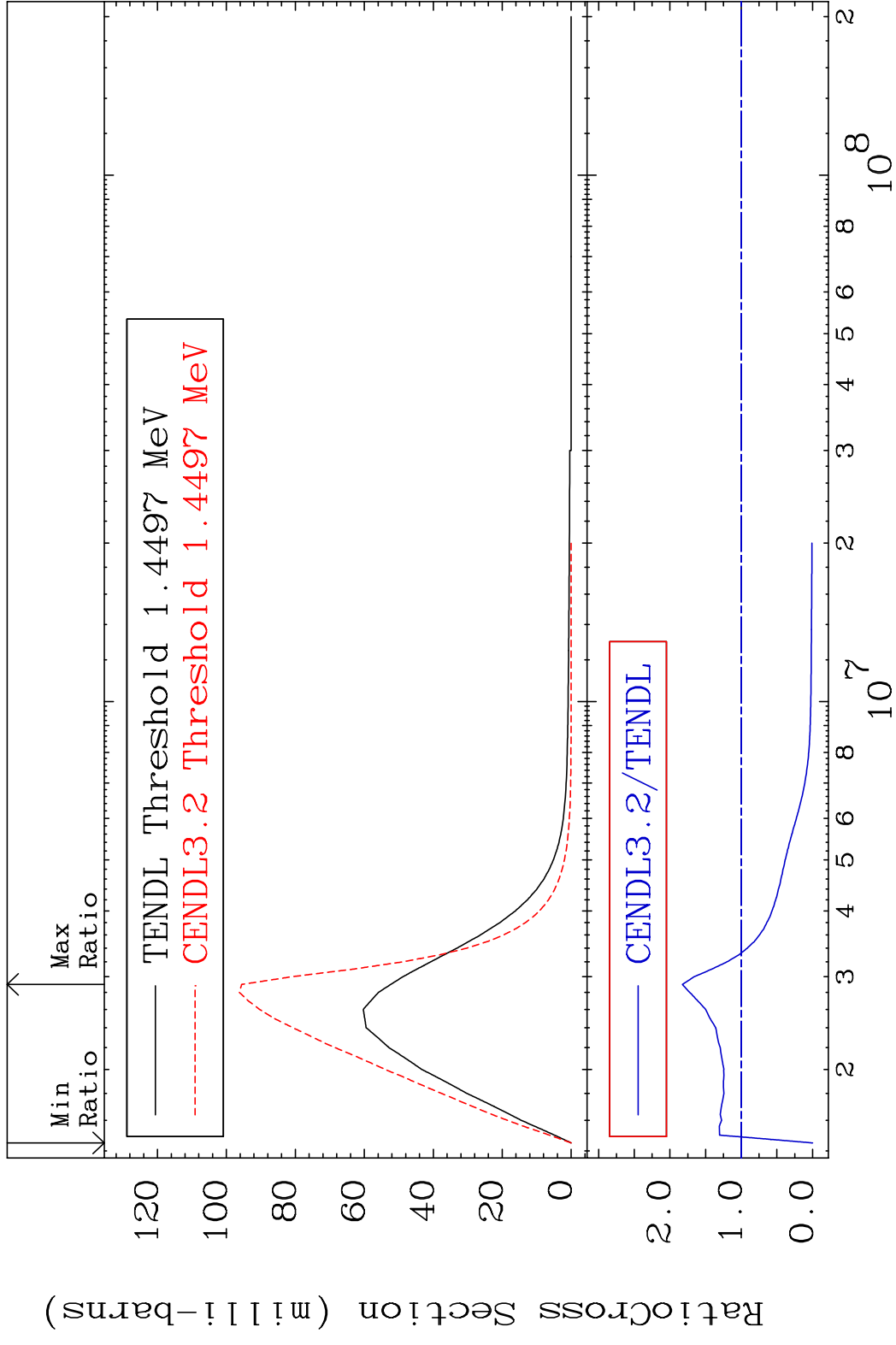
MAT 5425 MT= 54 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 9999. %



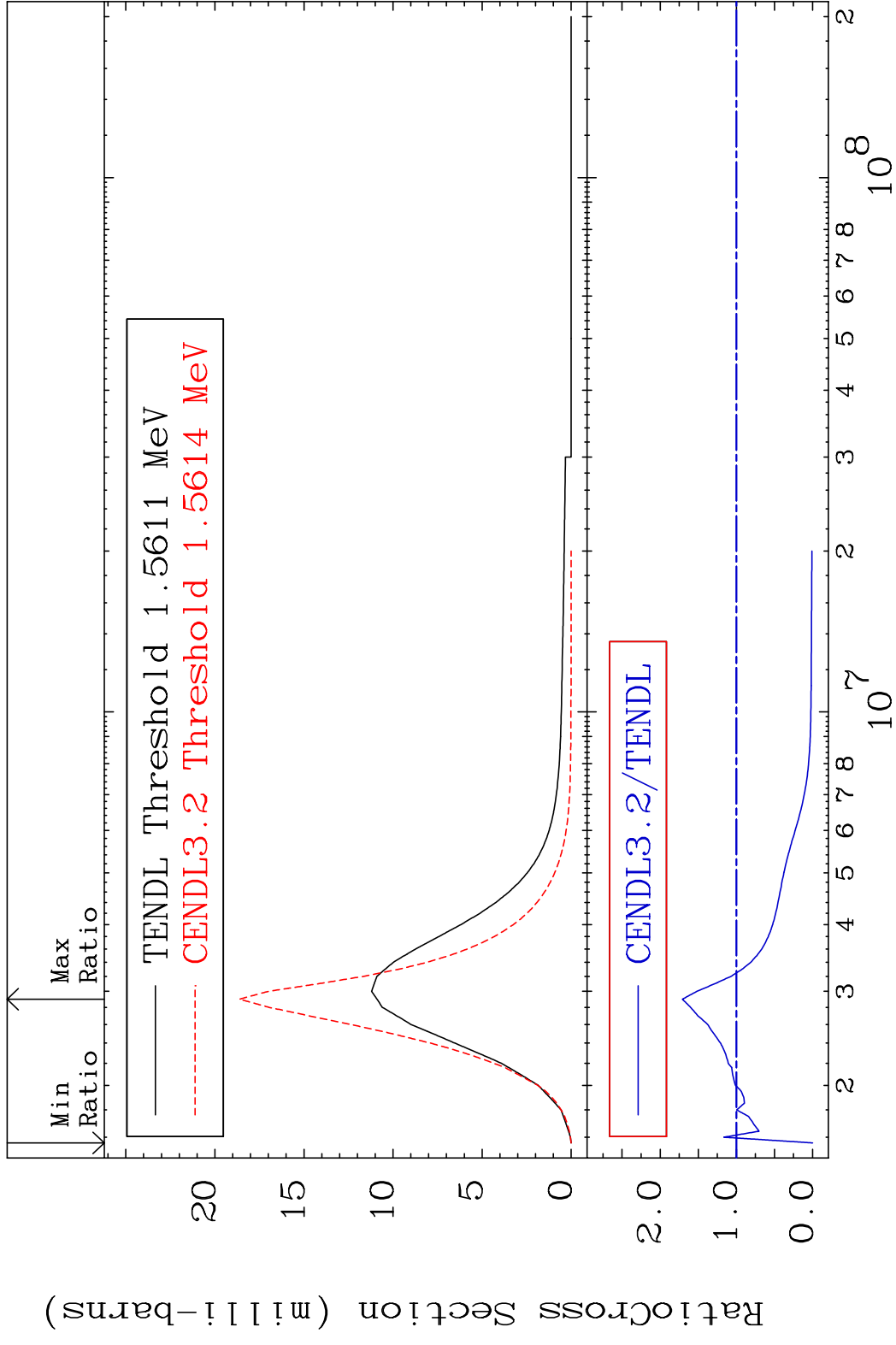
MAT 5425 MT= 55 (n, n') Level 54-Xe-124  
 Cross Section -45.23 To 9999. %



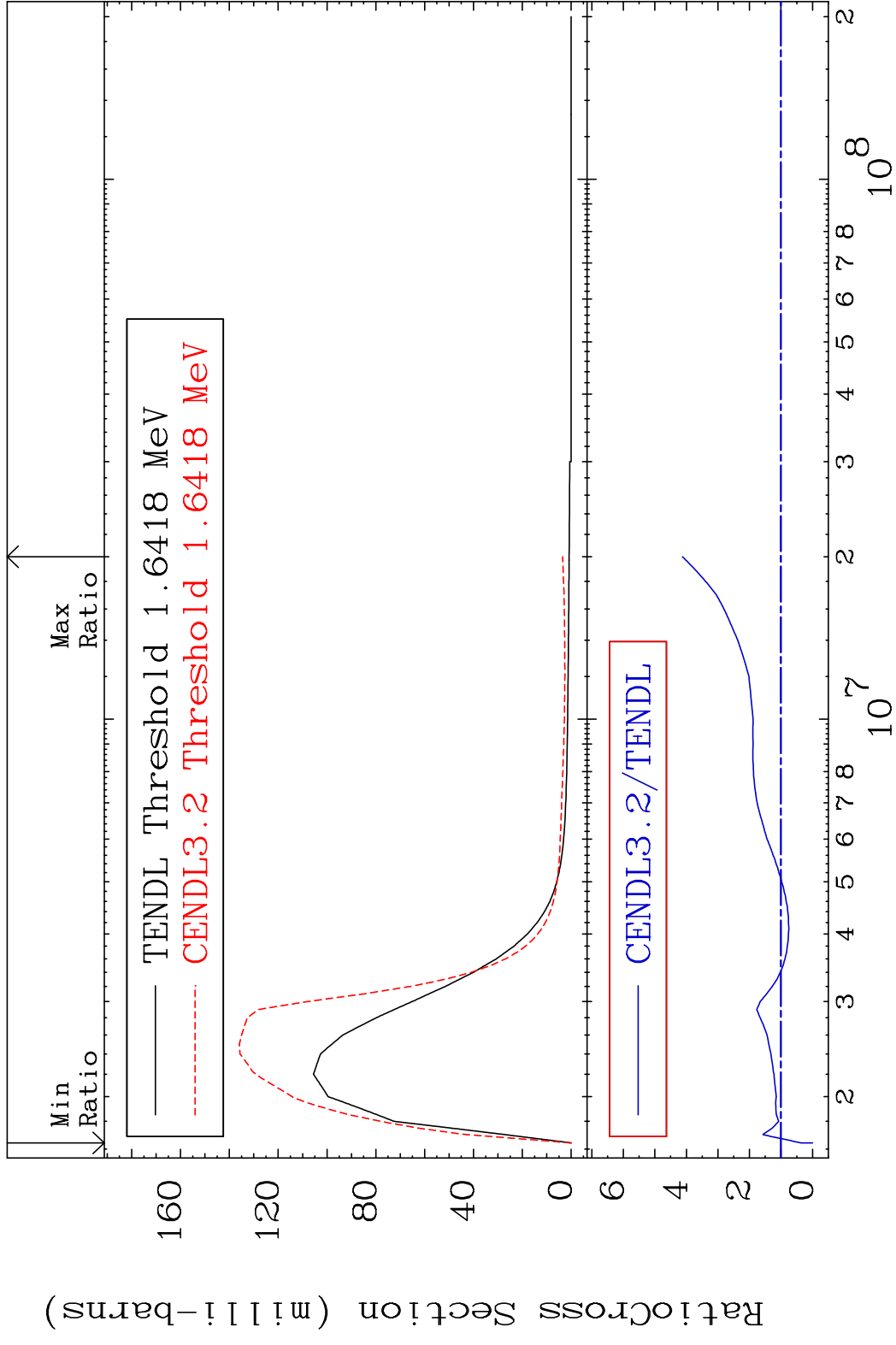
MAT 5425 MT= 56 (n,n') Level 54-Xe-124  
 Cross Section -100.0 To 82.60 %



MAT 5425 MT= 57 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 70.87 %

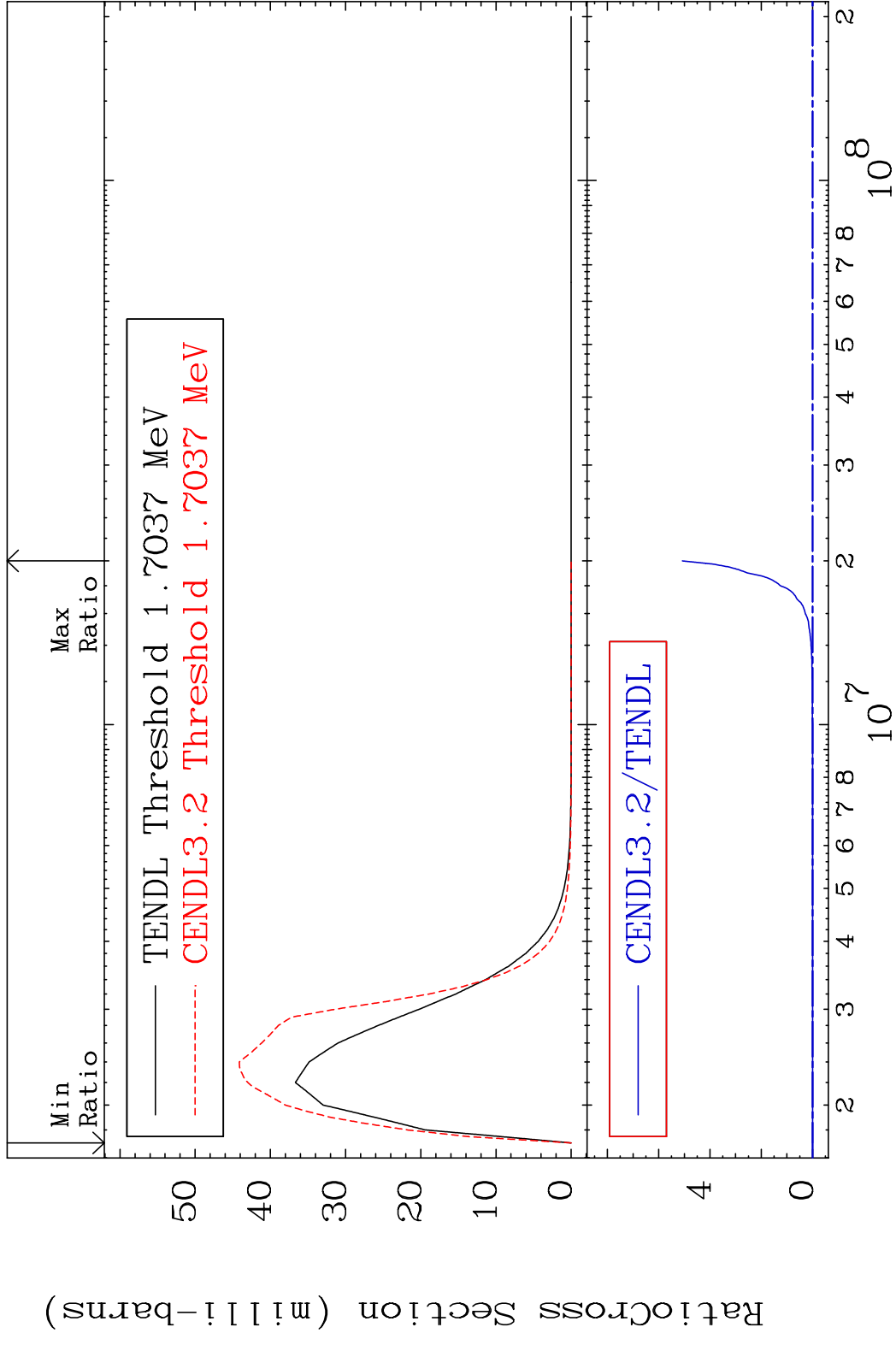


MAT 5425 MT= 58 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 312.8 %



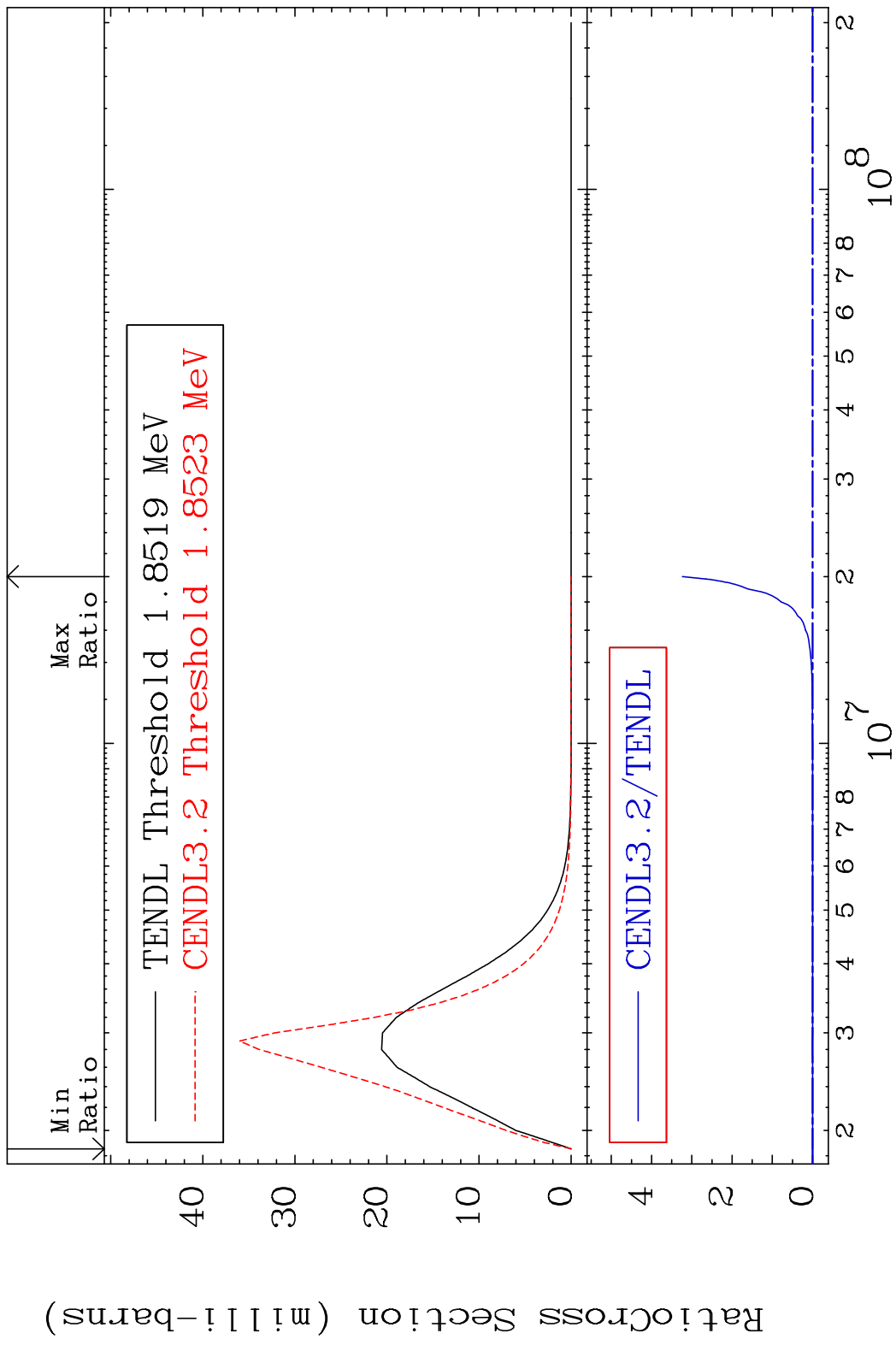


MAT 5425 MT= 59 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 9999. %

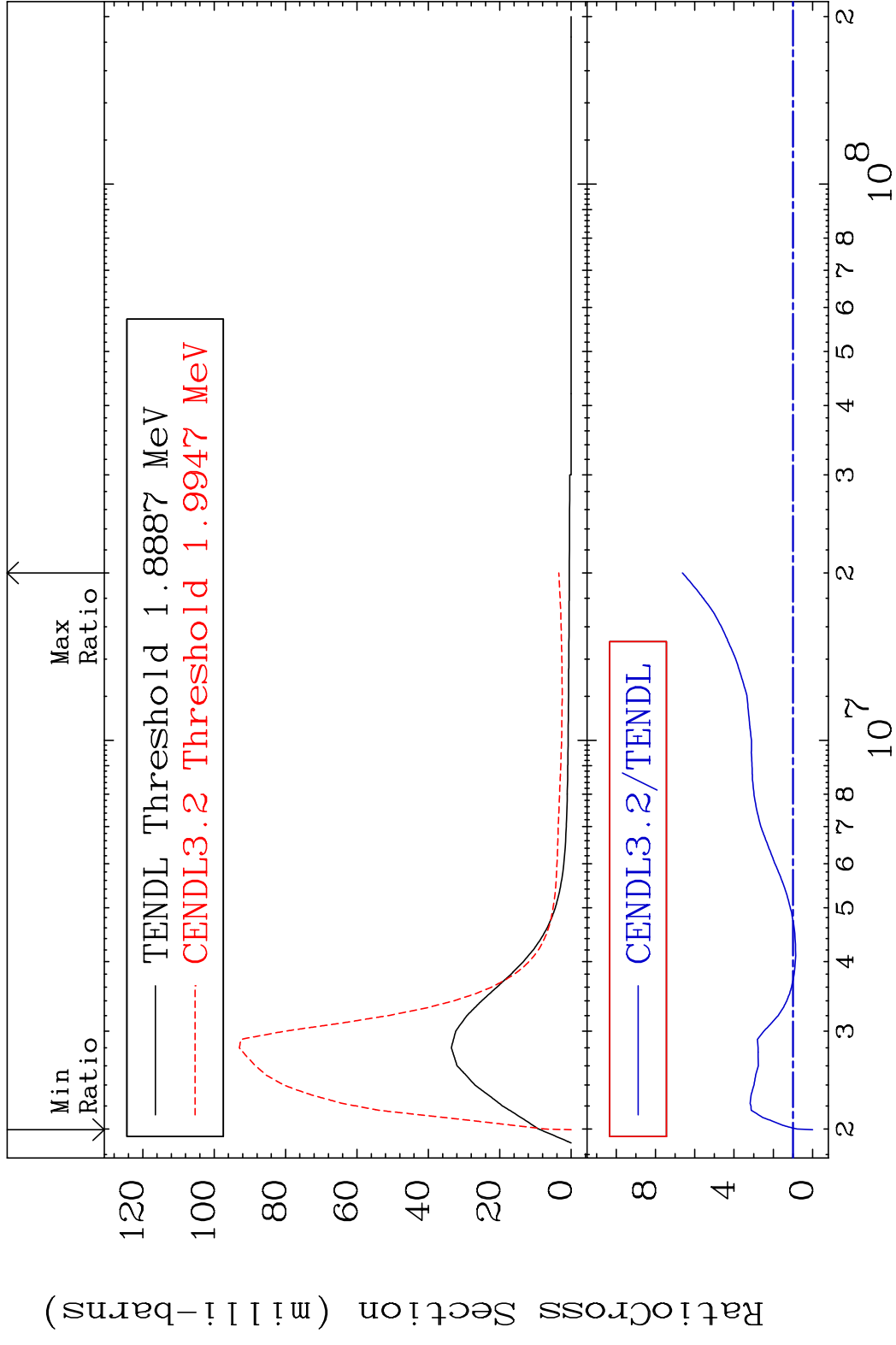


16 Incident Energy (eV) 54-Xe-124

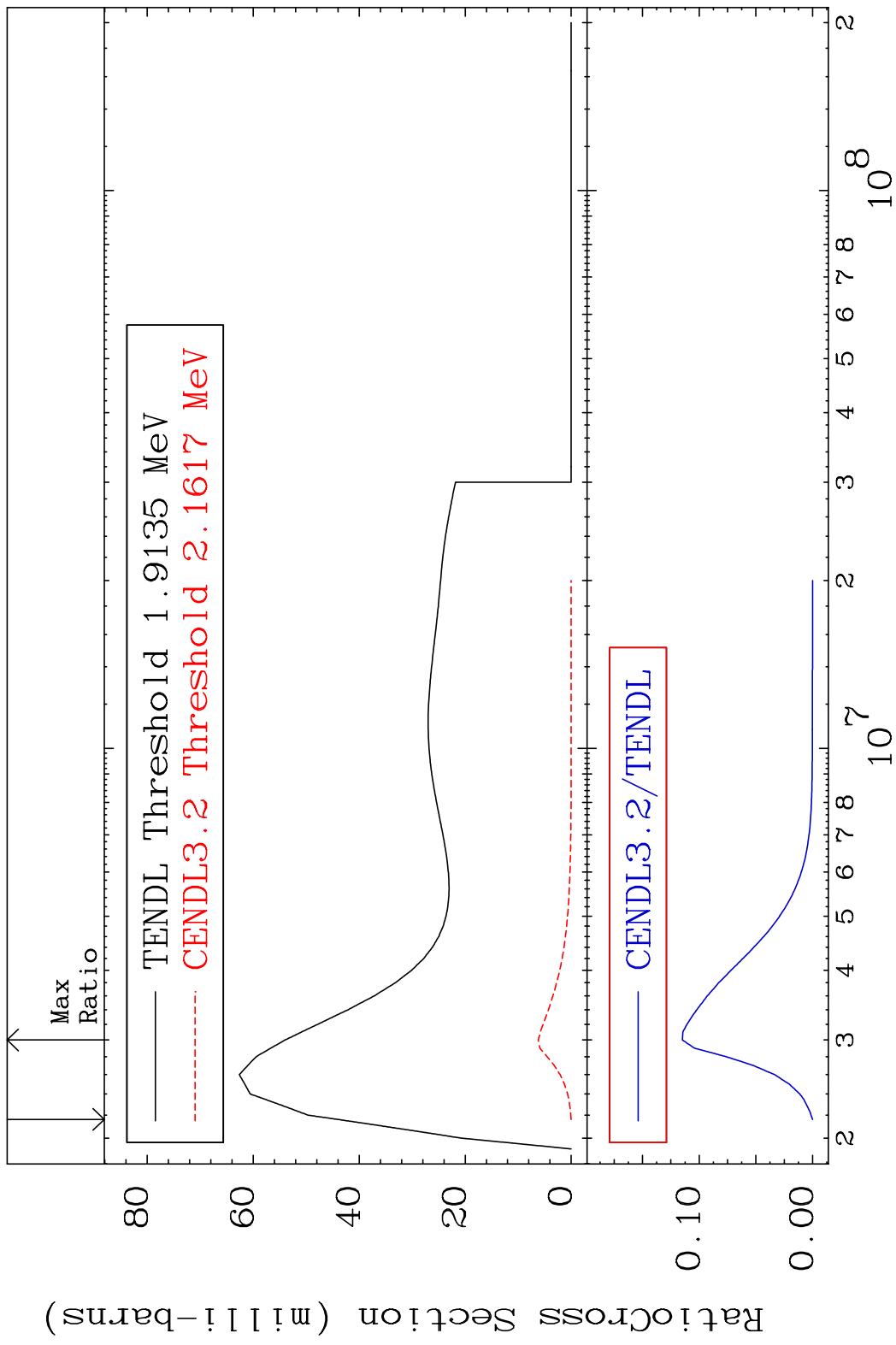
MAT 5425 MT= 60 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 9999. %



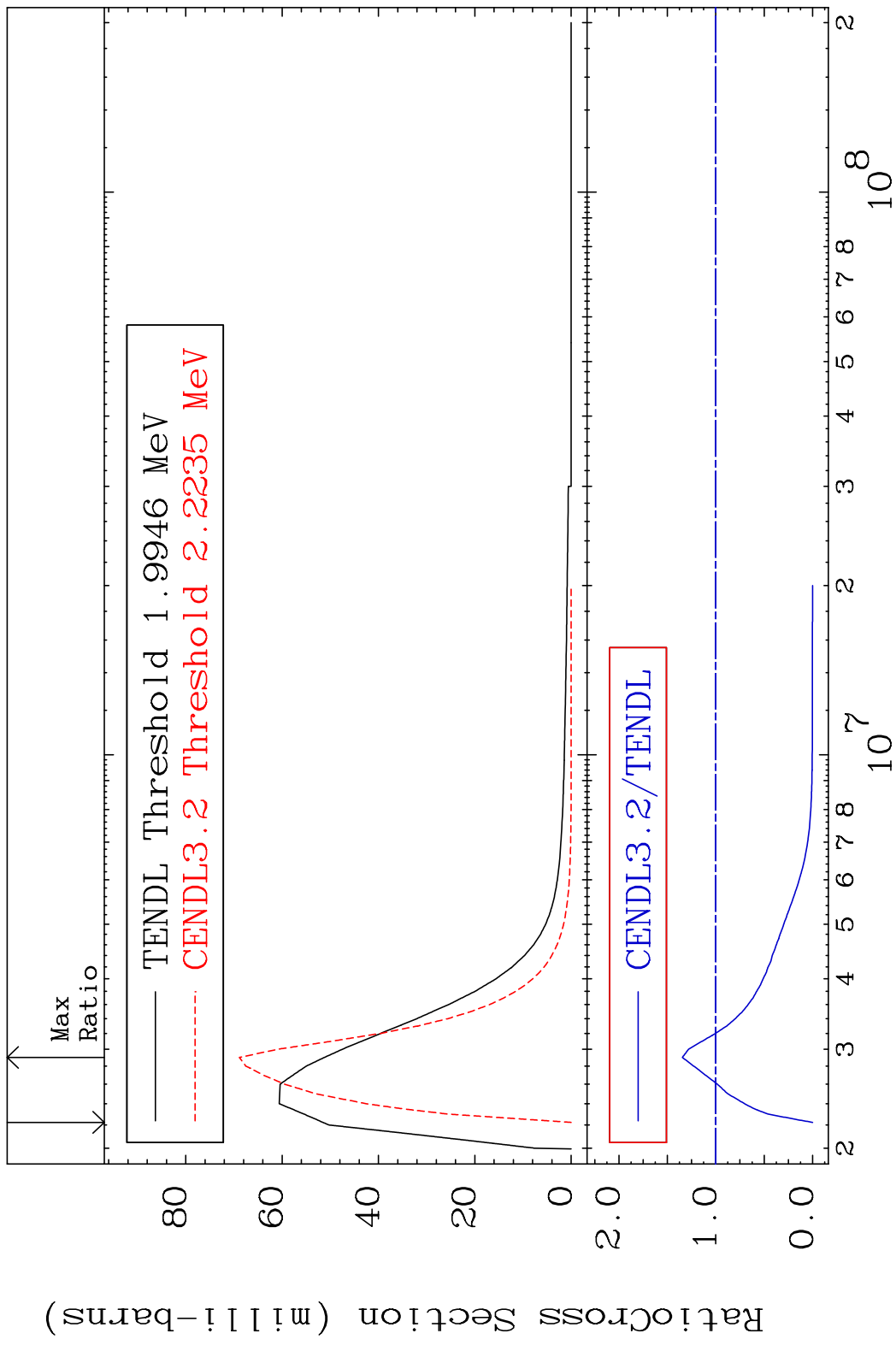
MAT 5425 MT= 61 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 563.2 %



MAT 5425 MT= 62 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To -88.51%

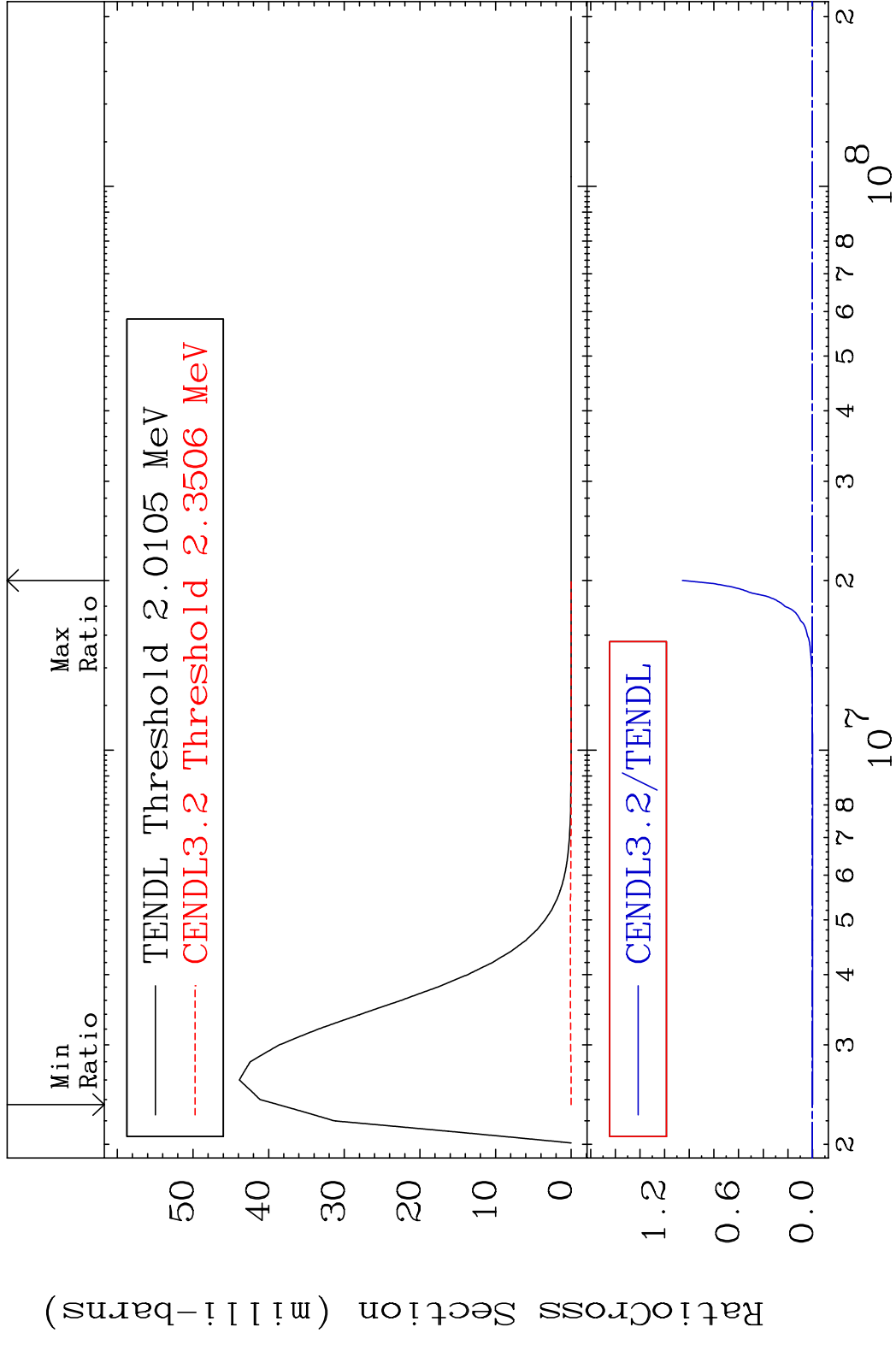


MAT 5425 MT= 63 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 34.52 %

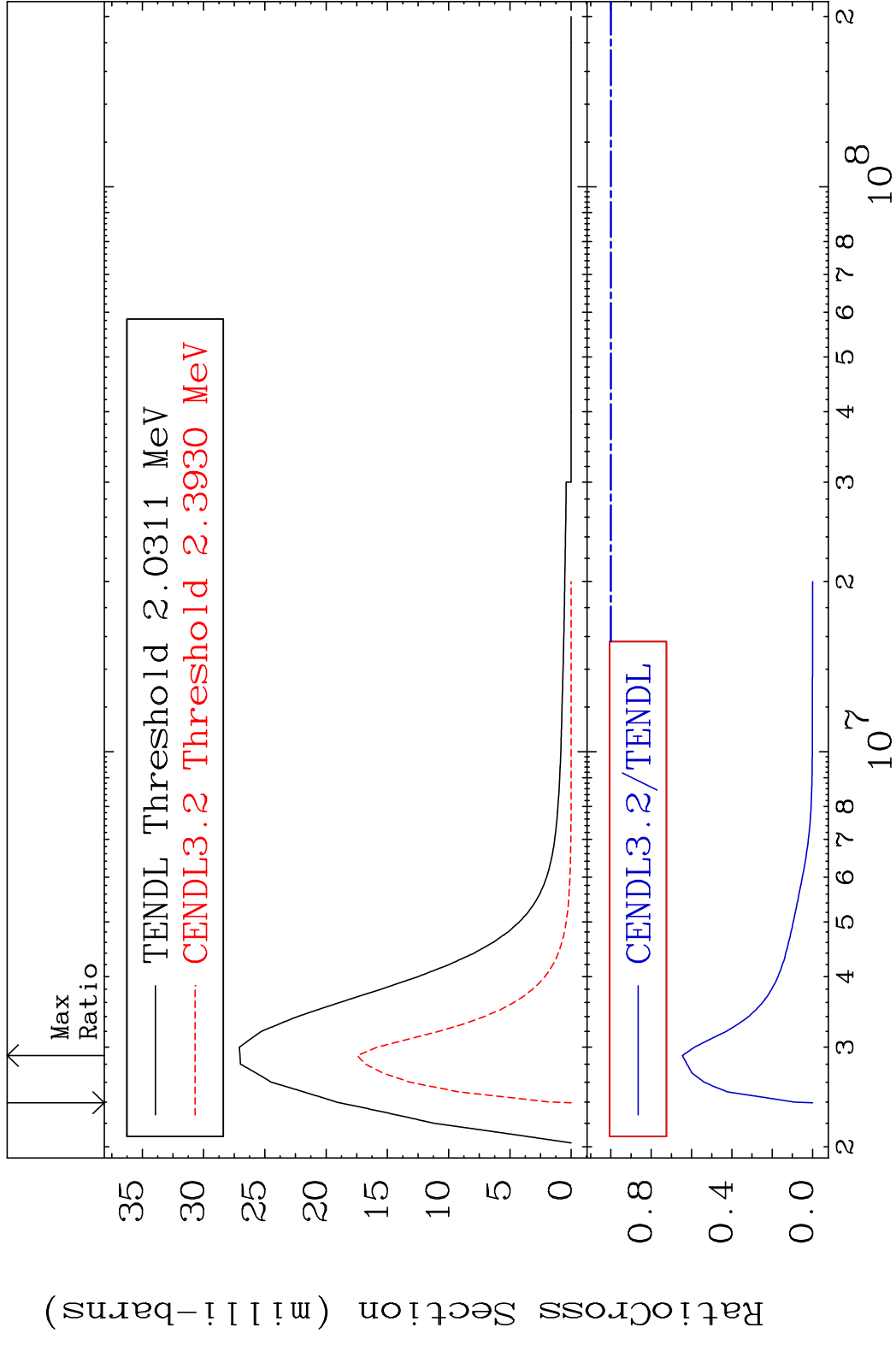


20 54-Xe-124

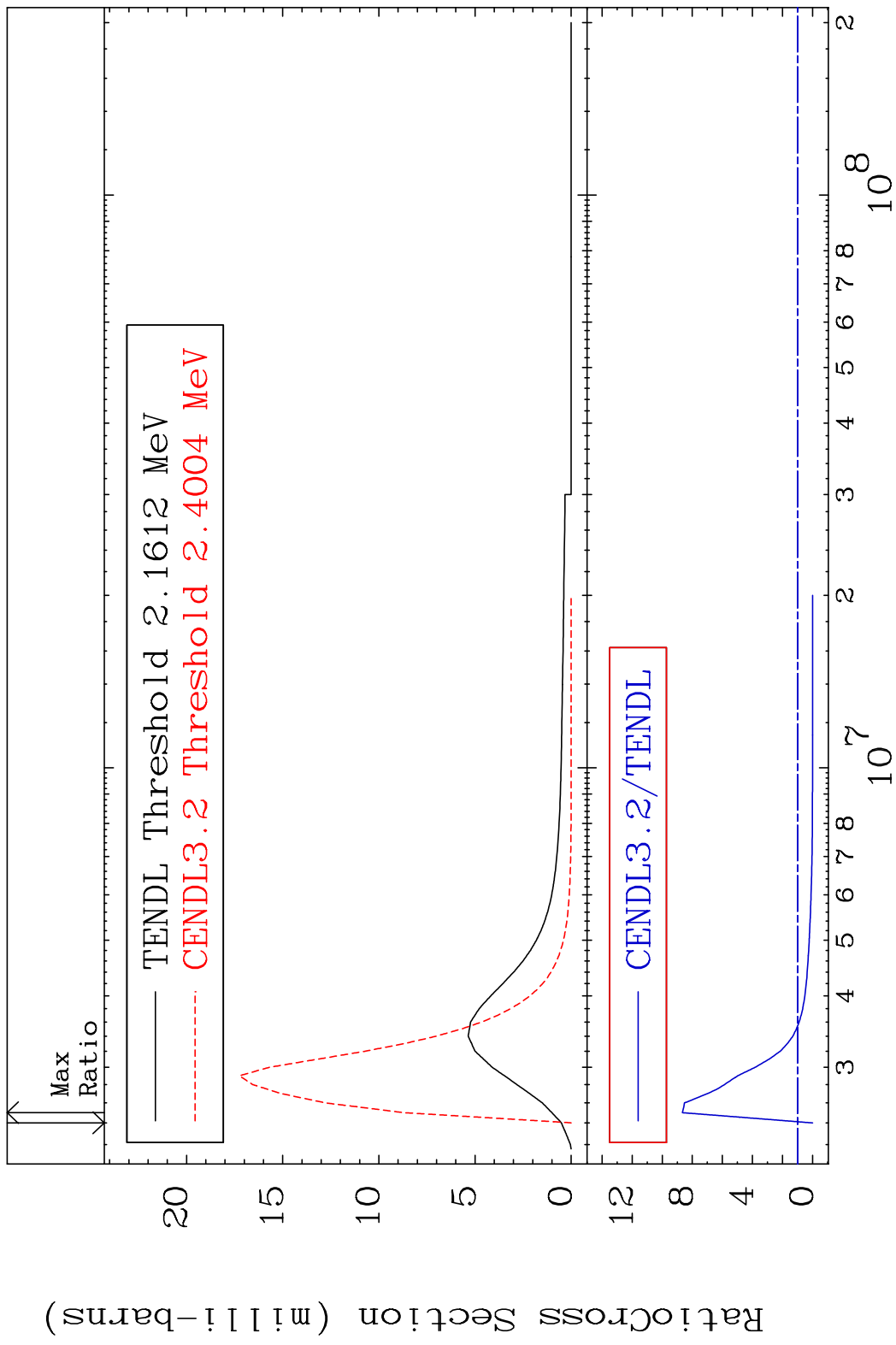
MAT 5425 MT= 64 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 9999. %



MAT 5425 MT= 65 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To -35.44%

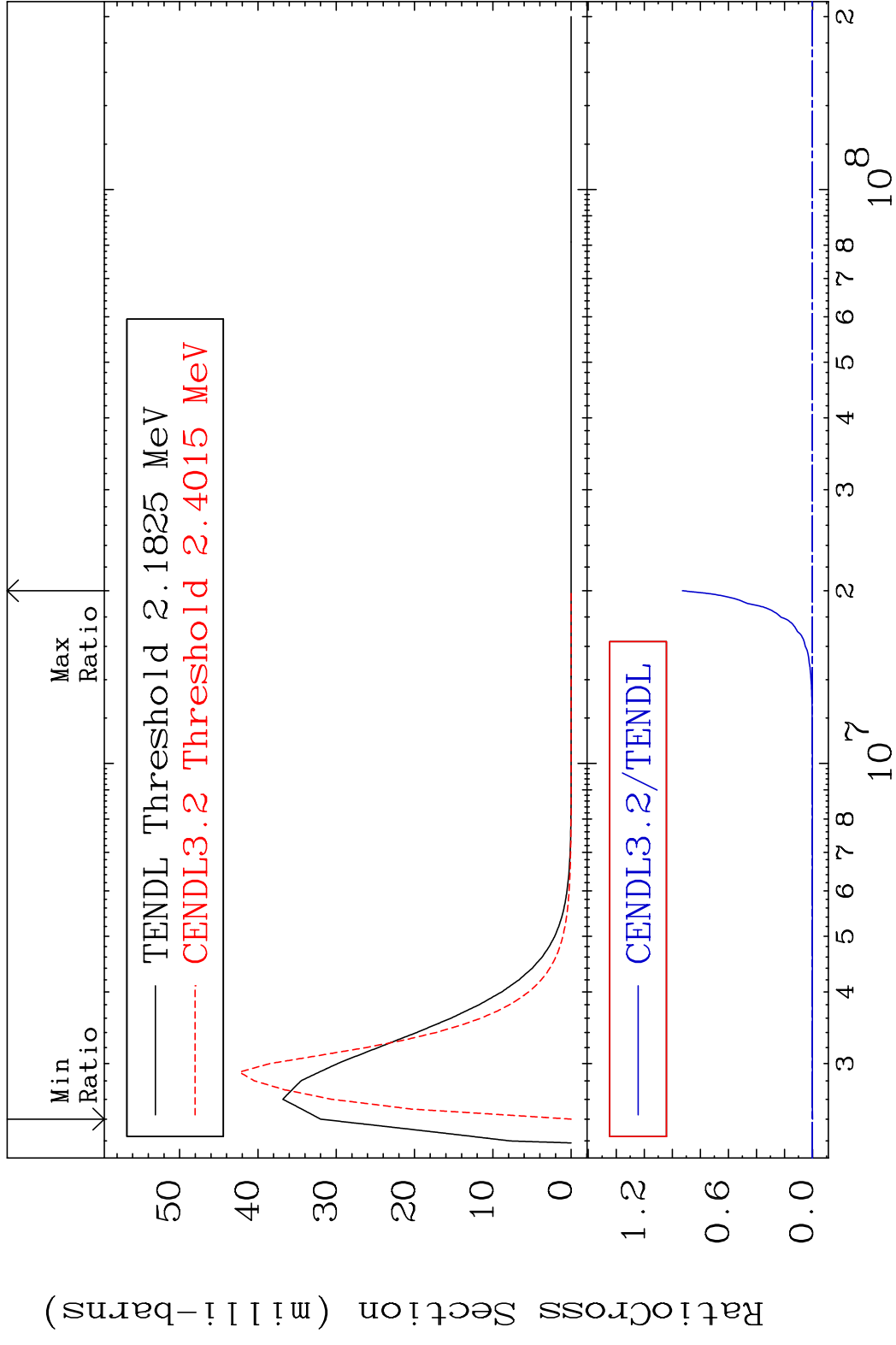


MAT 5425 MT= 66 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 766.2 %

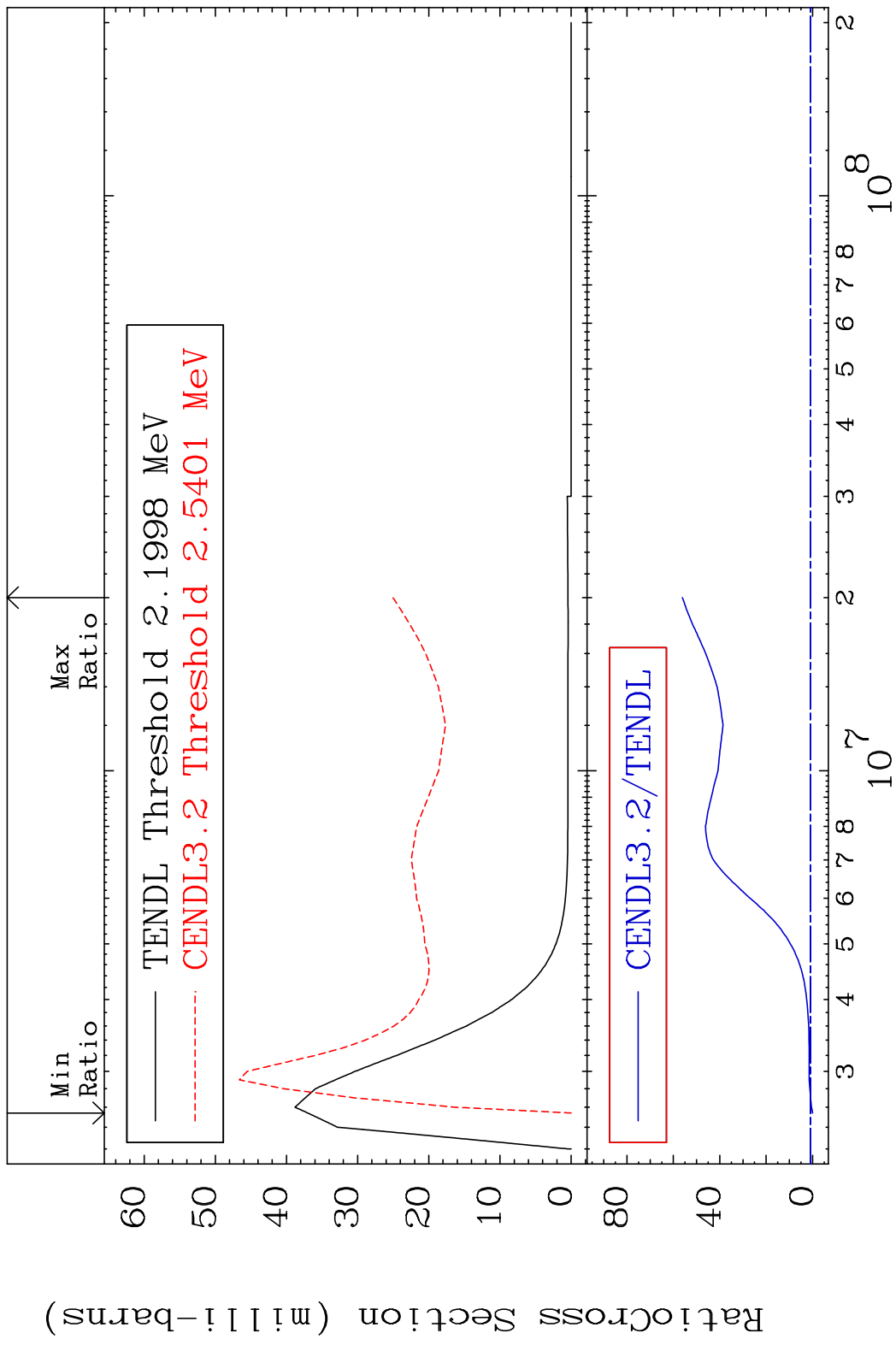




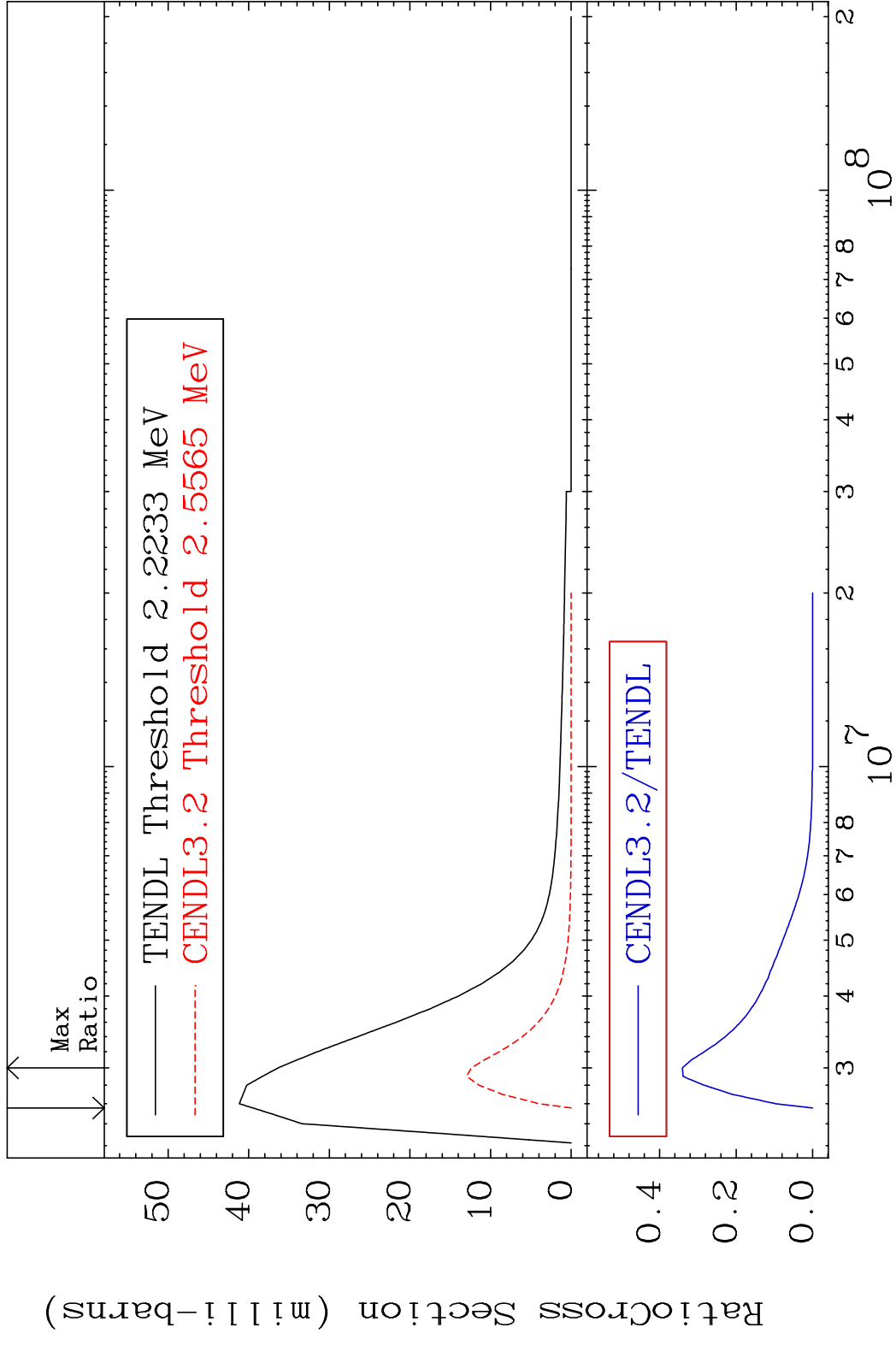
MAT 5425 MT= 67 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 9999. %



MAT 5425 MT= 68 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To 5513. %



MAT 5425 MT= 69 (n, n') Level 54-Xe-124  
 Cross Section -100.0 To -65.94%

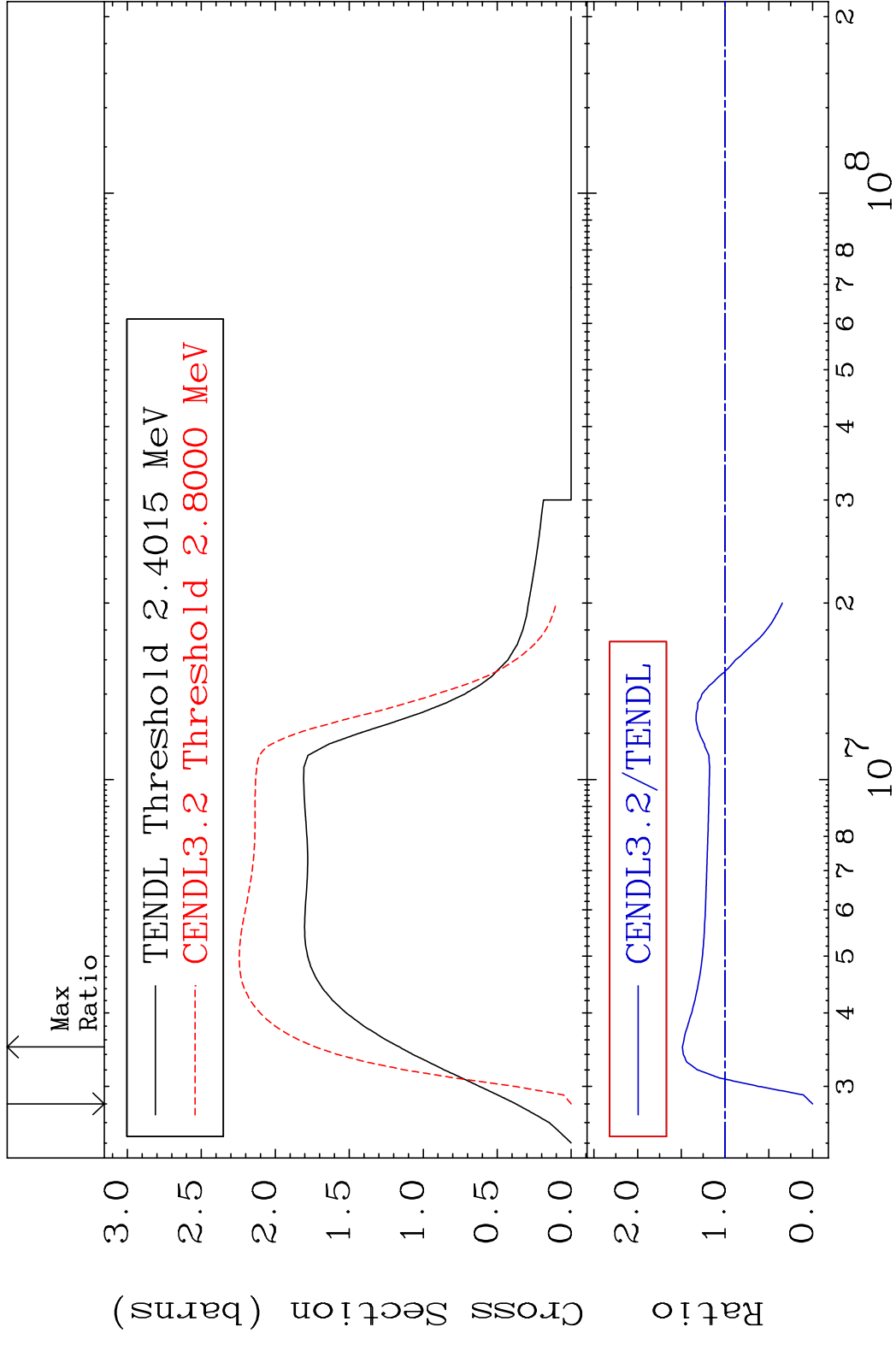


MAT 5425

(n,n') Continuum

54-Xe-124

Cross Section -100.0 To 48.84 %

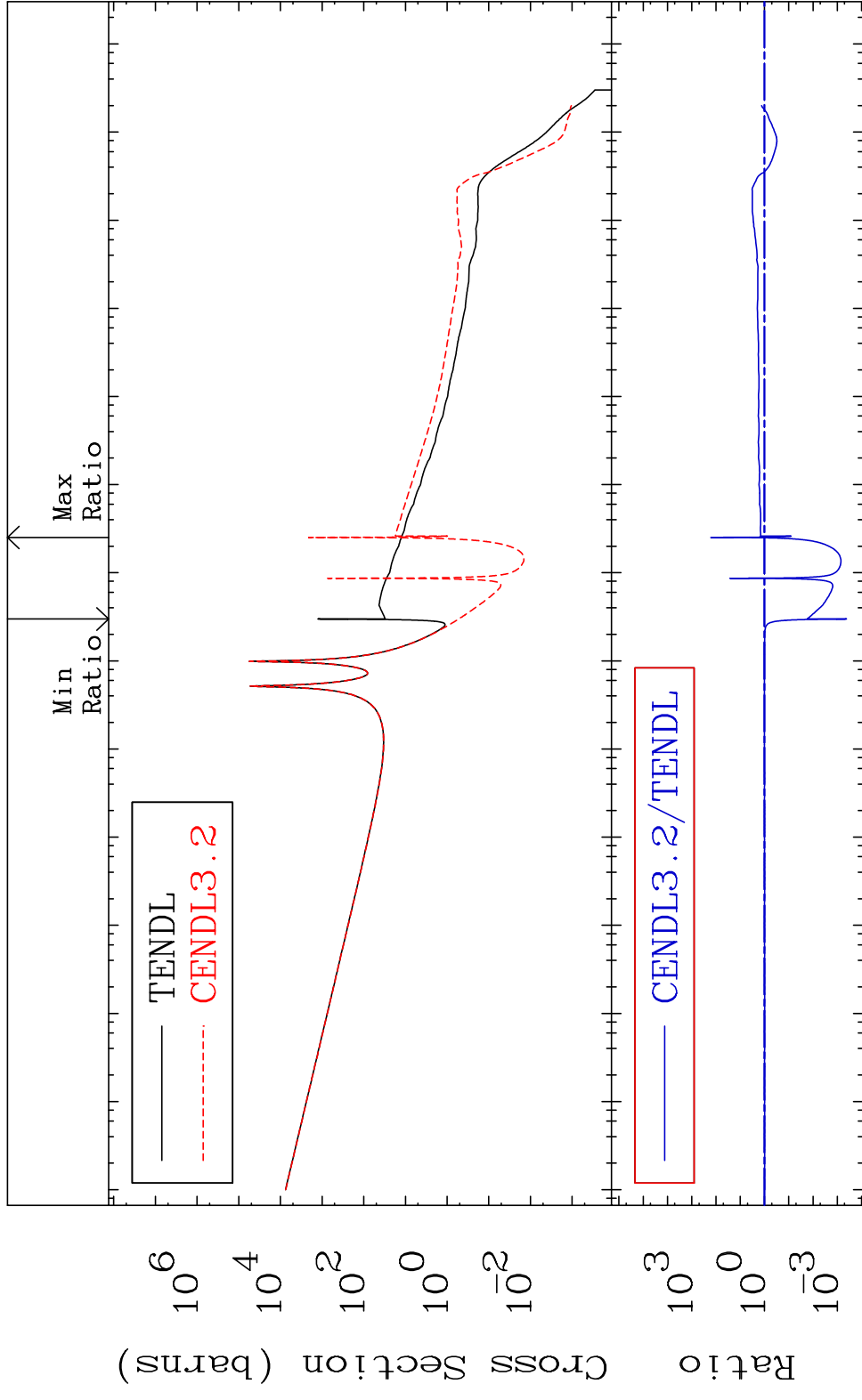


MAT 5425

54-Xe-124

(n,  $\gamma$ )

Cross Section -99.96 To 9999. %

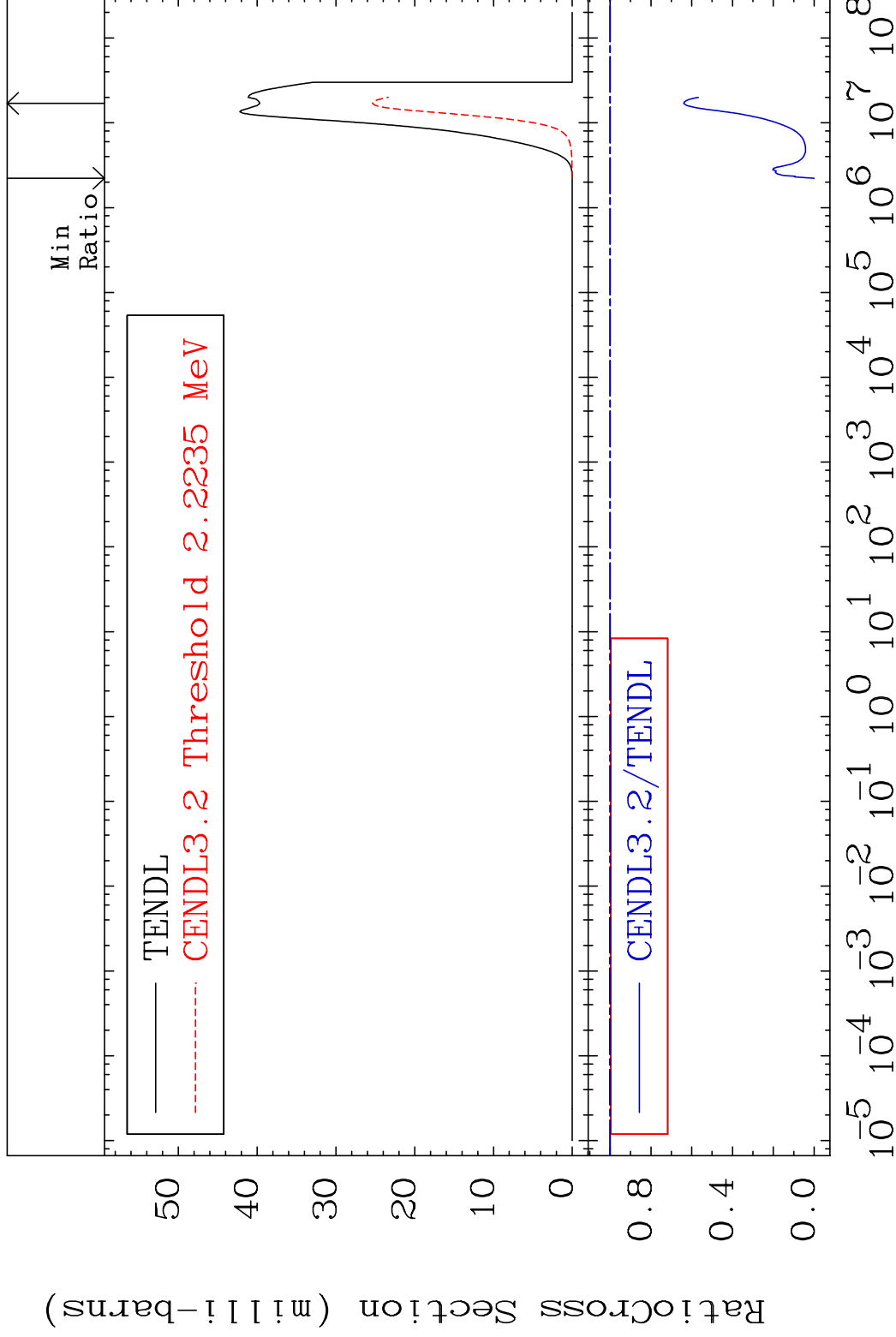


MAT 5425

(n, p)

54-Xe-124

Cross Section -100.0 To -36.04%



29

Incident Energy (eV)

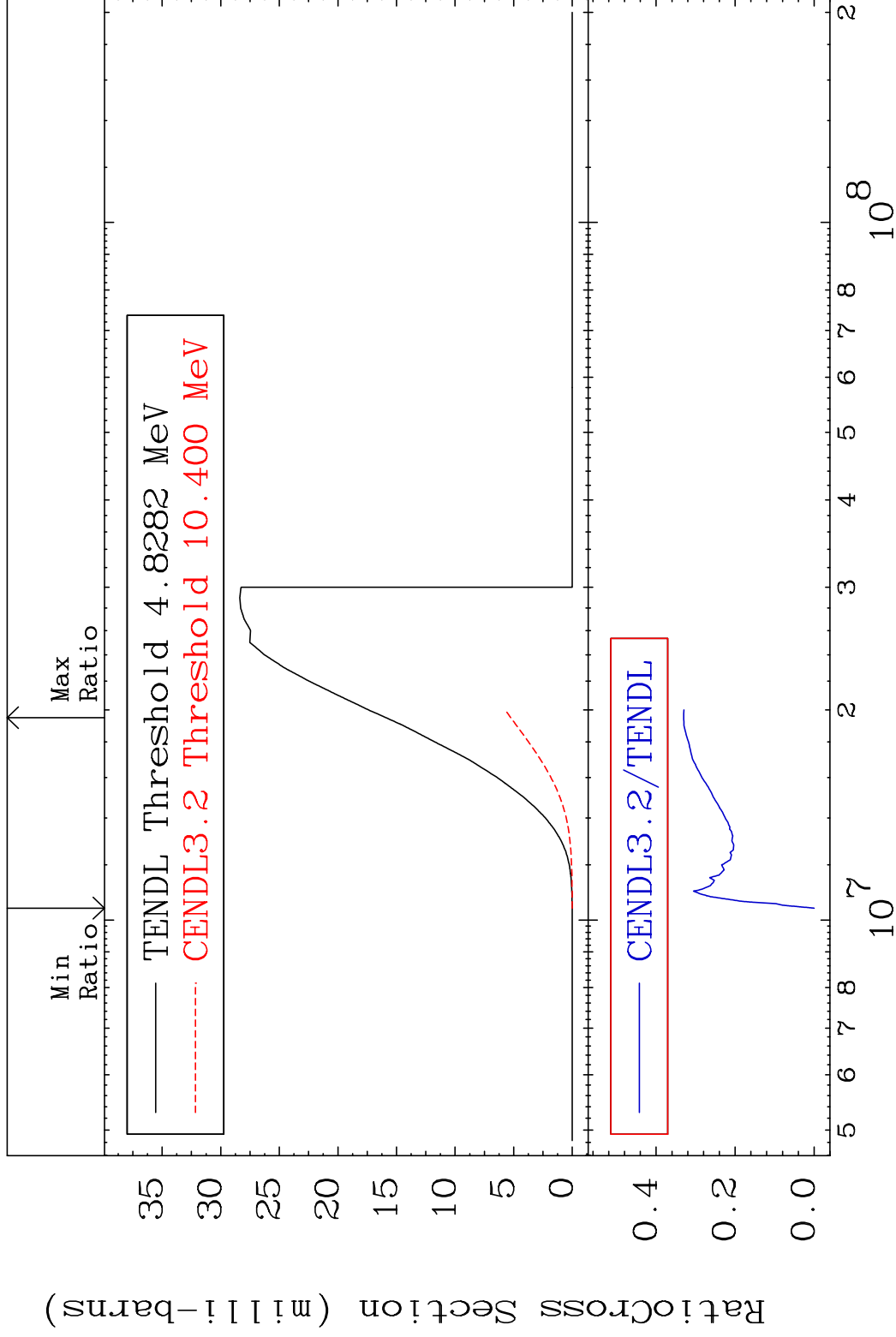
54-Xe-124

MAT 5425

(n, d)

54-Xe-124

Cross Section -100.0 To -66.97%



30

Incident Energy (eV)

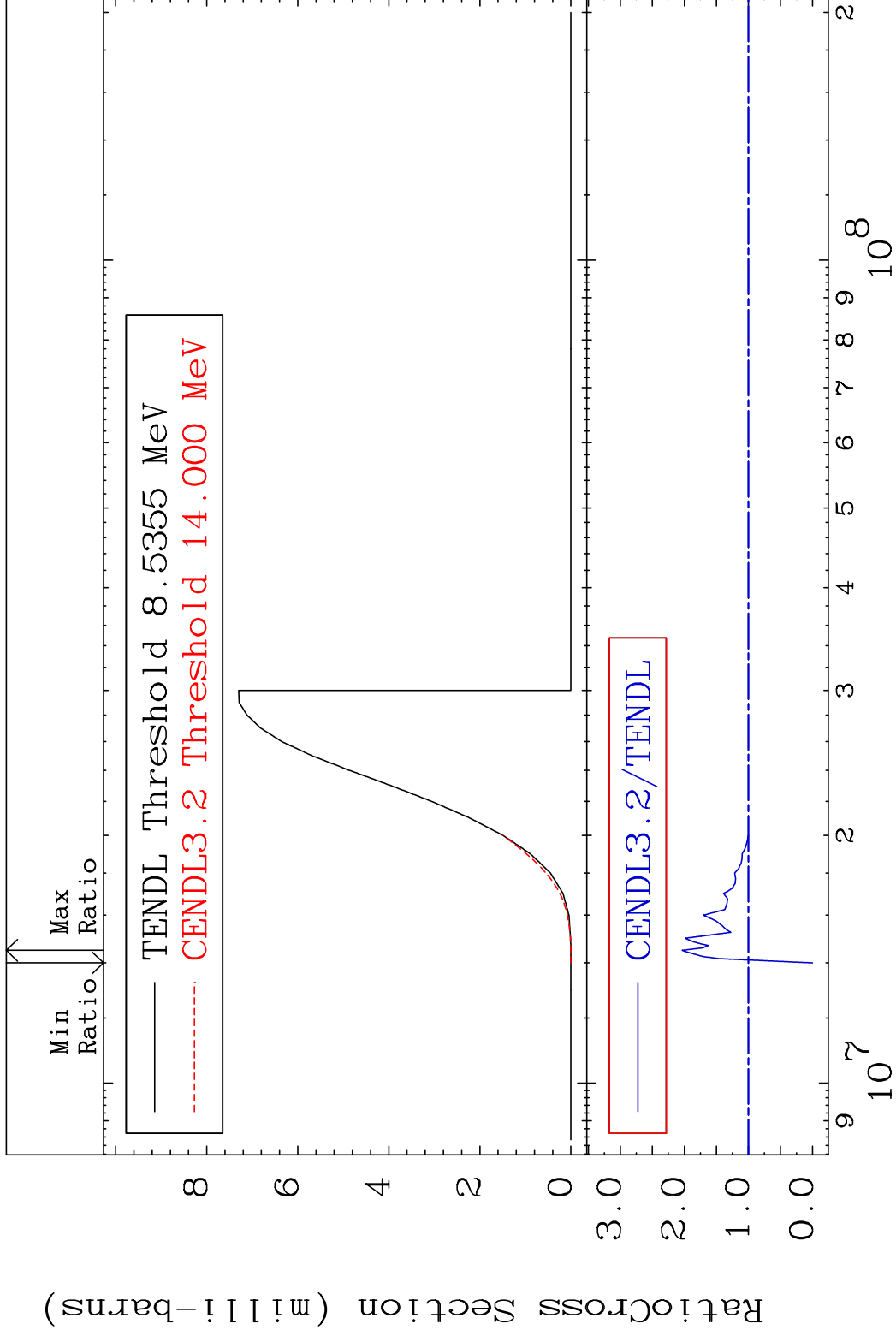
54-Xe-124

MAT 5425

(n, t)

54-Xe-124

Cross Section -100.0 To 103.5 %



31

Incident Energy (eV)

54-Xe-124

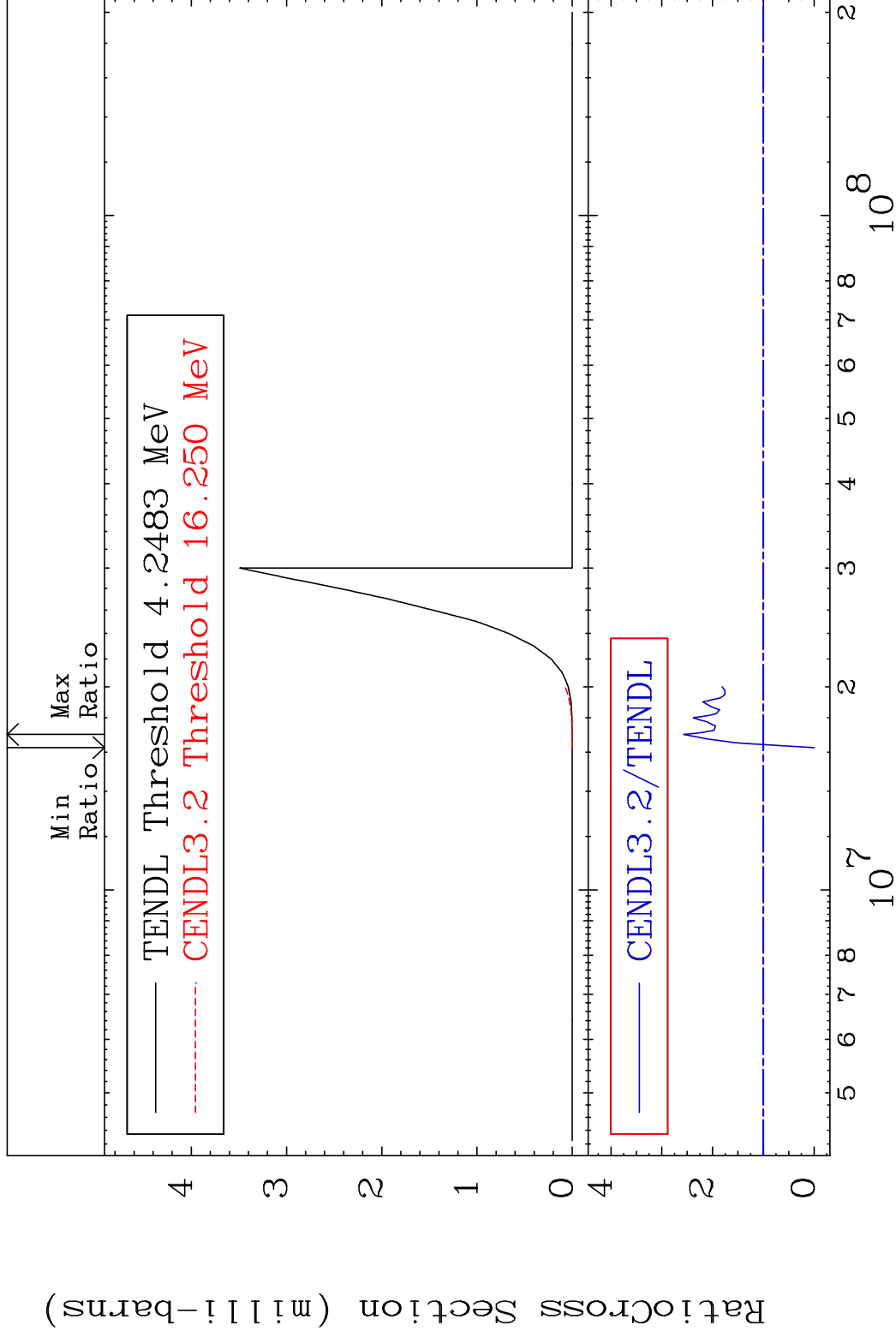


MAT 5425

(n, He-3)

54-Xe-124

Cross Section -100.0 To 156.9 %



32

Incident Energy (eV)

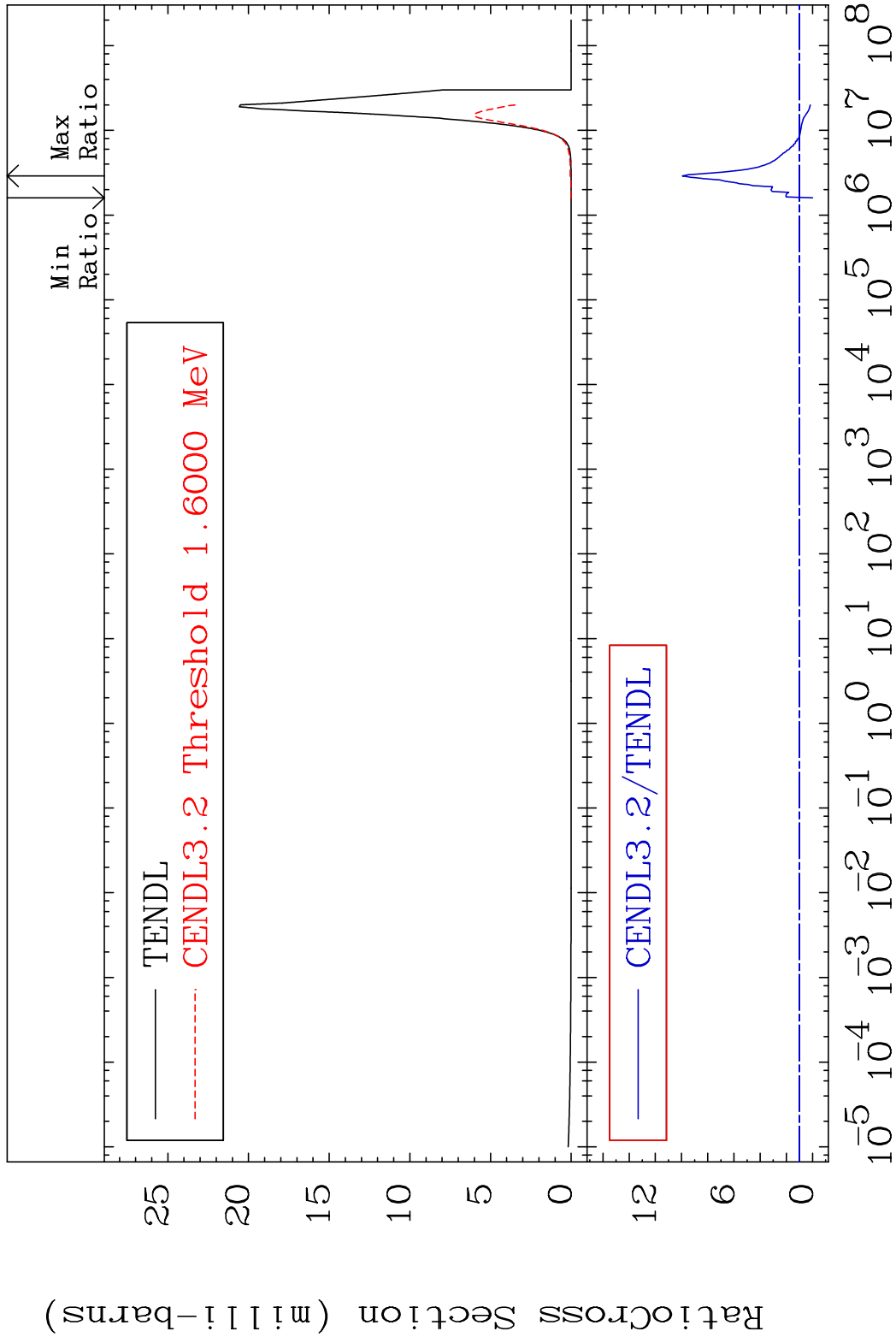
54-Xe-124

MAT 5425

(n,  $\alpha$ )

54-Xe-124

Cross Section -100.0 To 893.8 %



33

Incident Energy (eV)

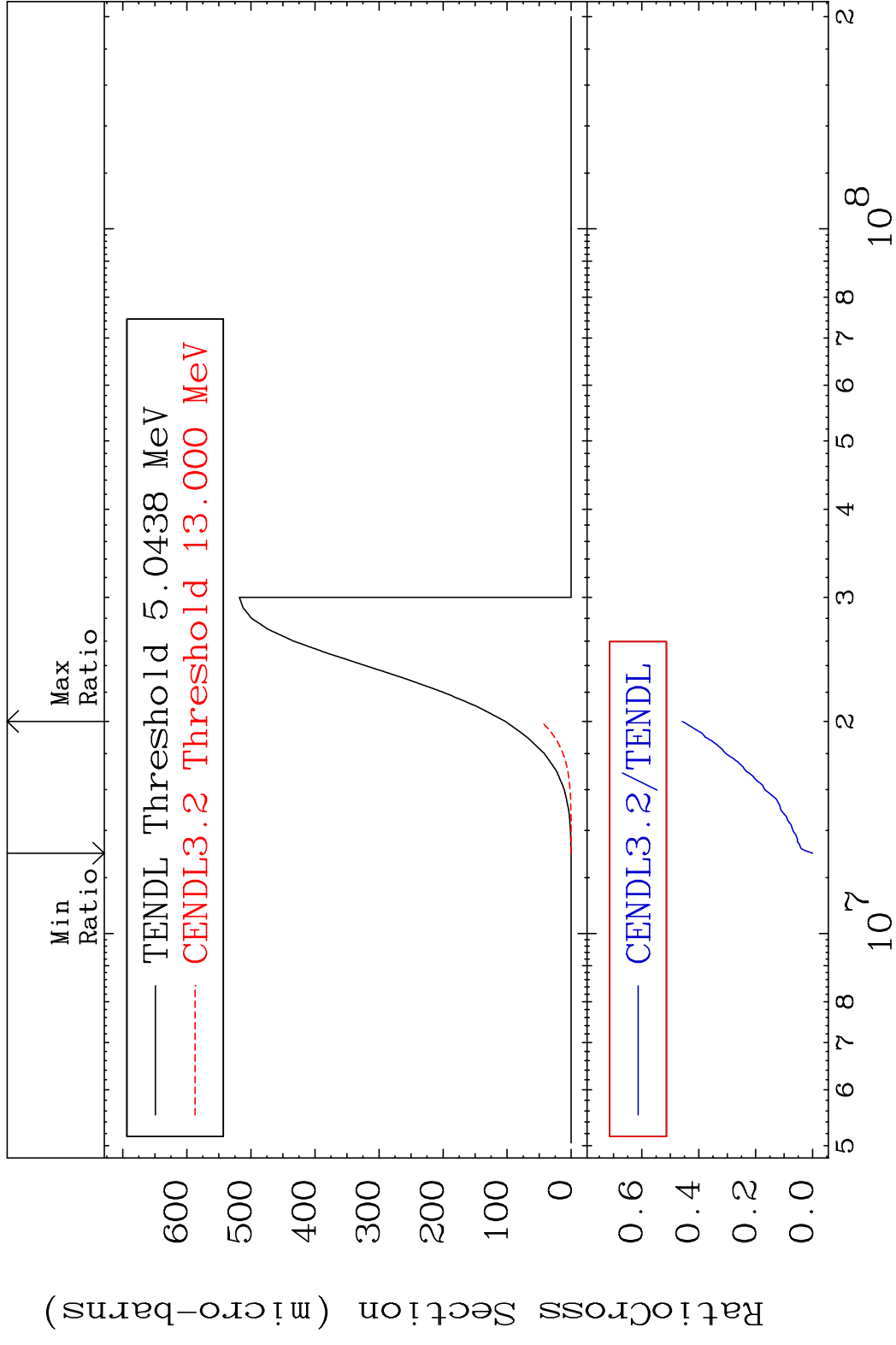
54-Xe-124

MAT 5425

(n,2p)

54-Xe-124

Cross Section -100.0 To -54.23%

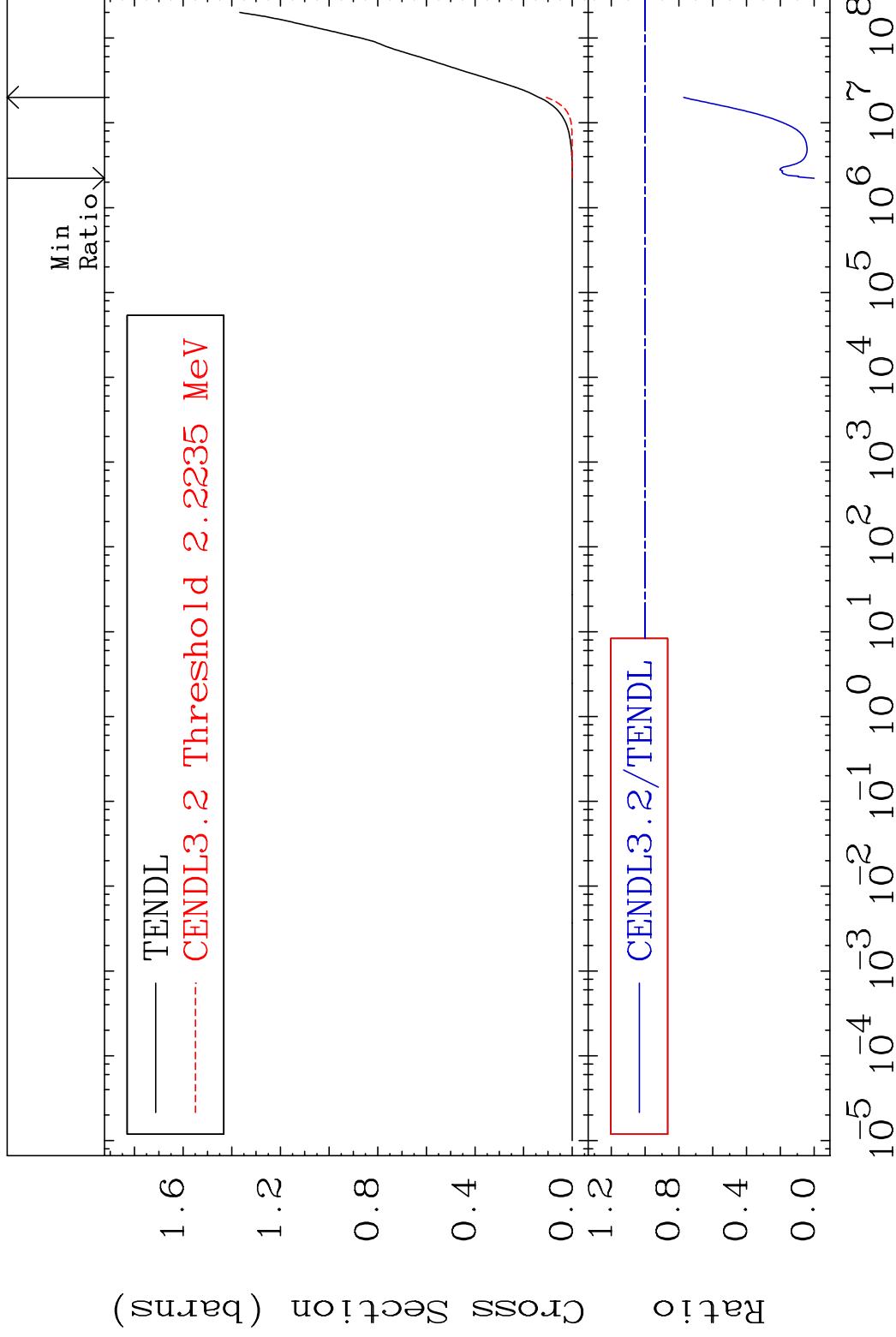


MAT 5425

Hydrogen Production

54-Xe-124

Cross Section -100.0 To -22.80%



35

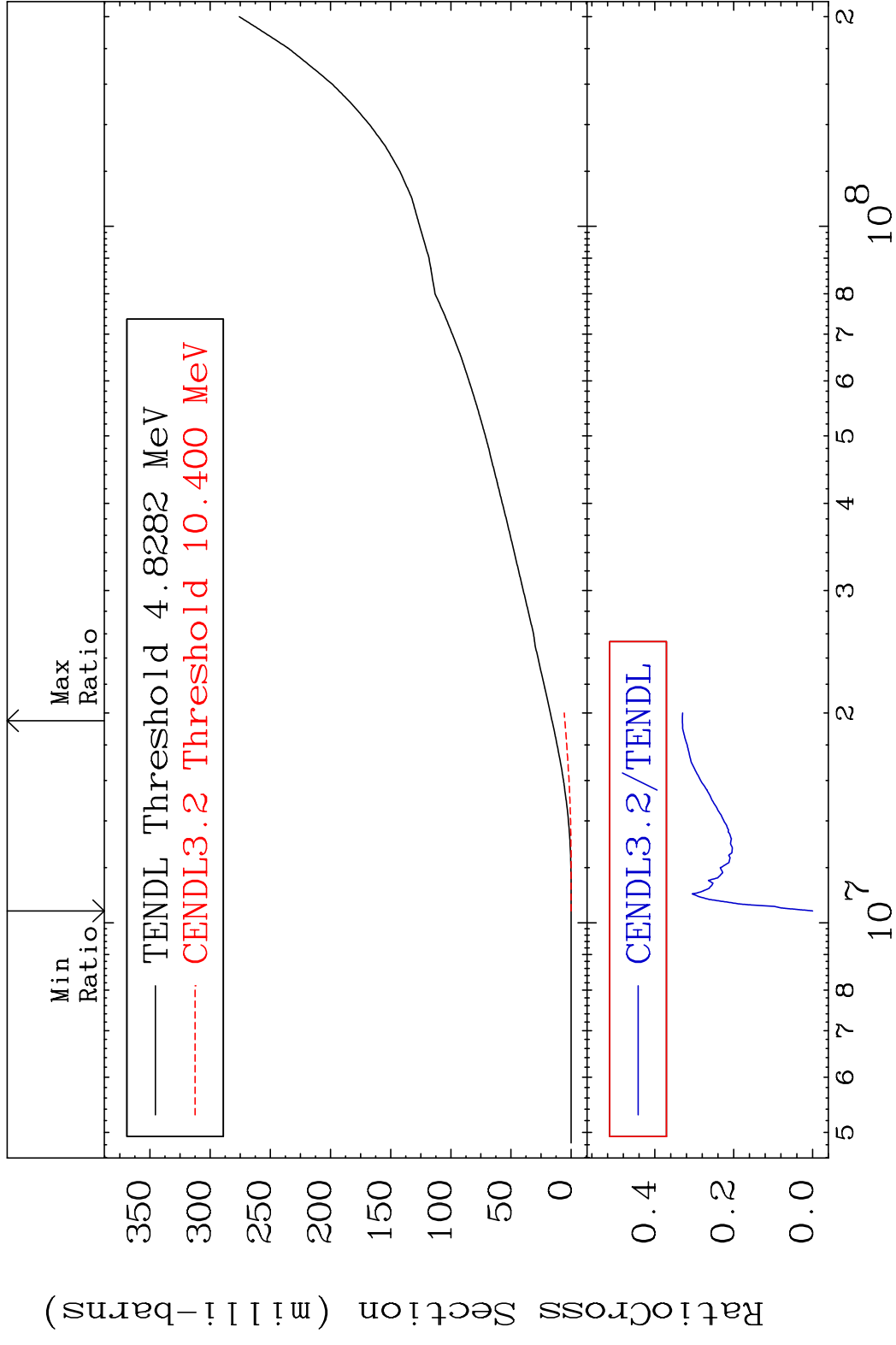
Incident Energy (eV)

54-Xe-124

MAT 5425

Deuterium Production 54-Xe-124

Cross Section -100.0 To -66.97%

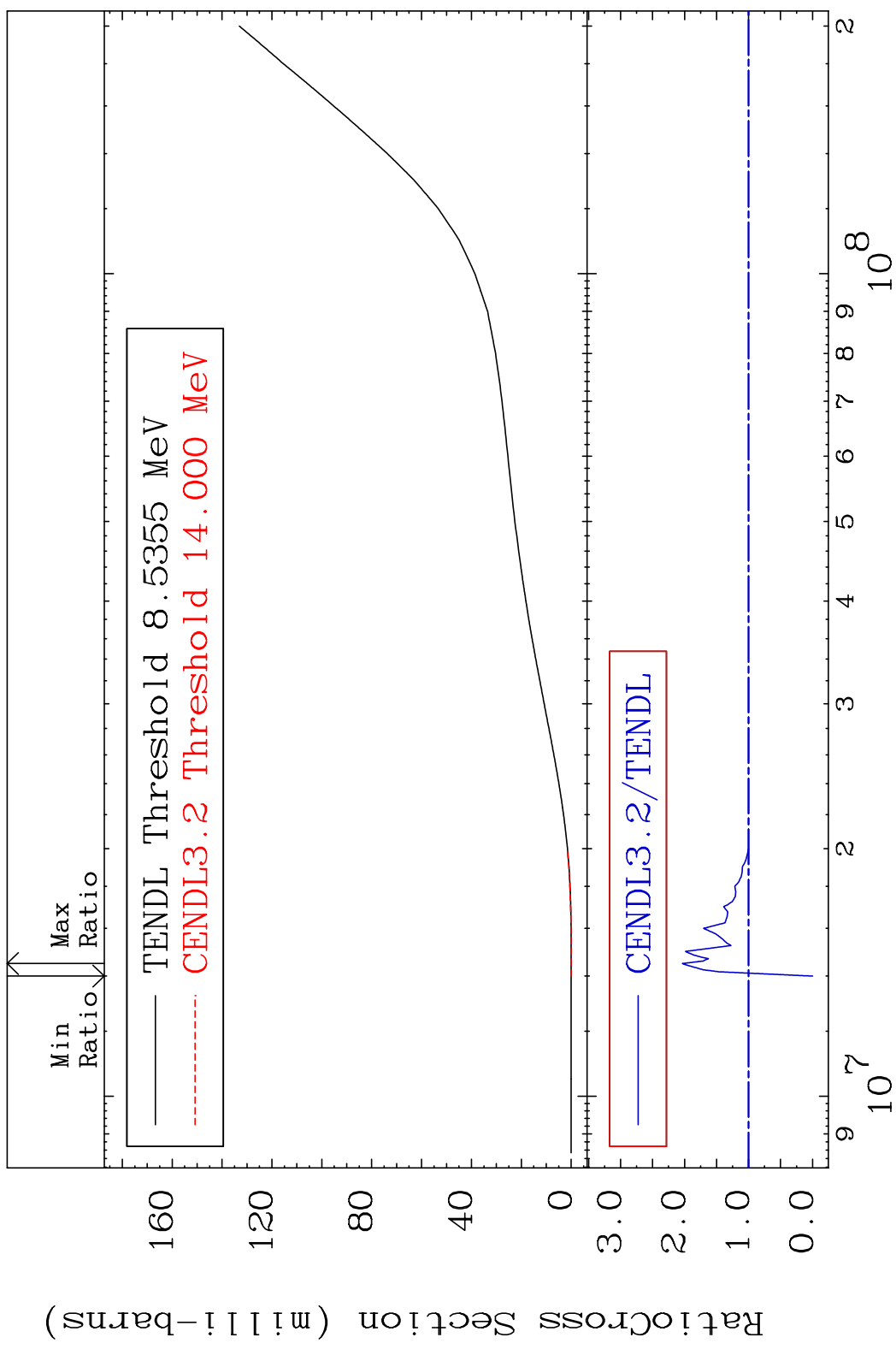


MAT 5425

Tritium Production

54-Xe-124

Cross Section -100.0 To 103.5 %

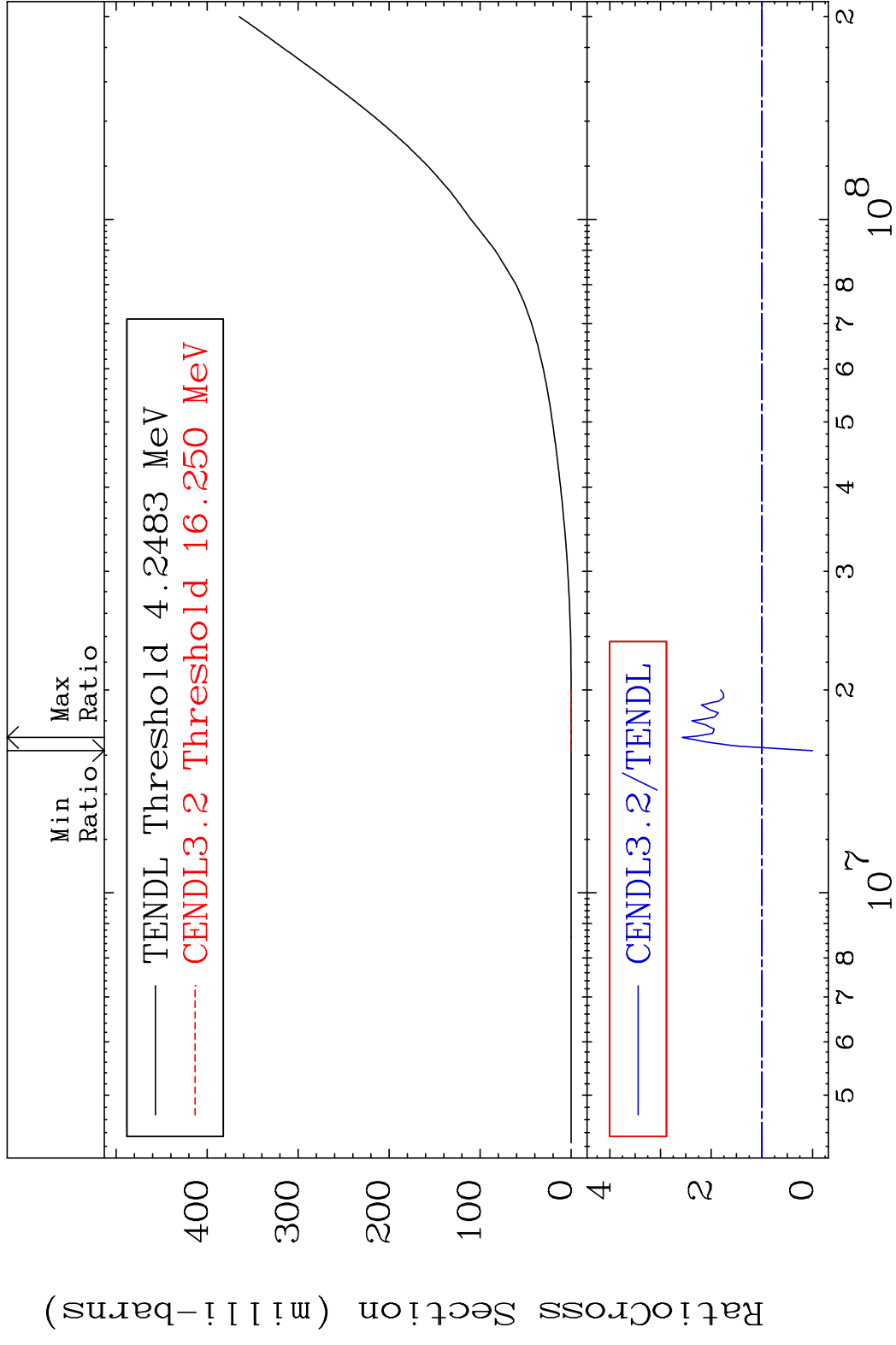


MAT 5425

He-3 Production

54-Xe-124

Cross Section -100.0 To 156.9 %



38

Incident Energy (eV)

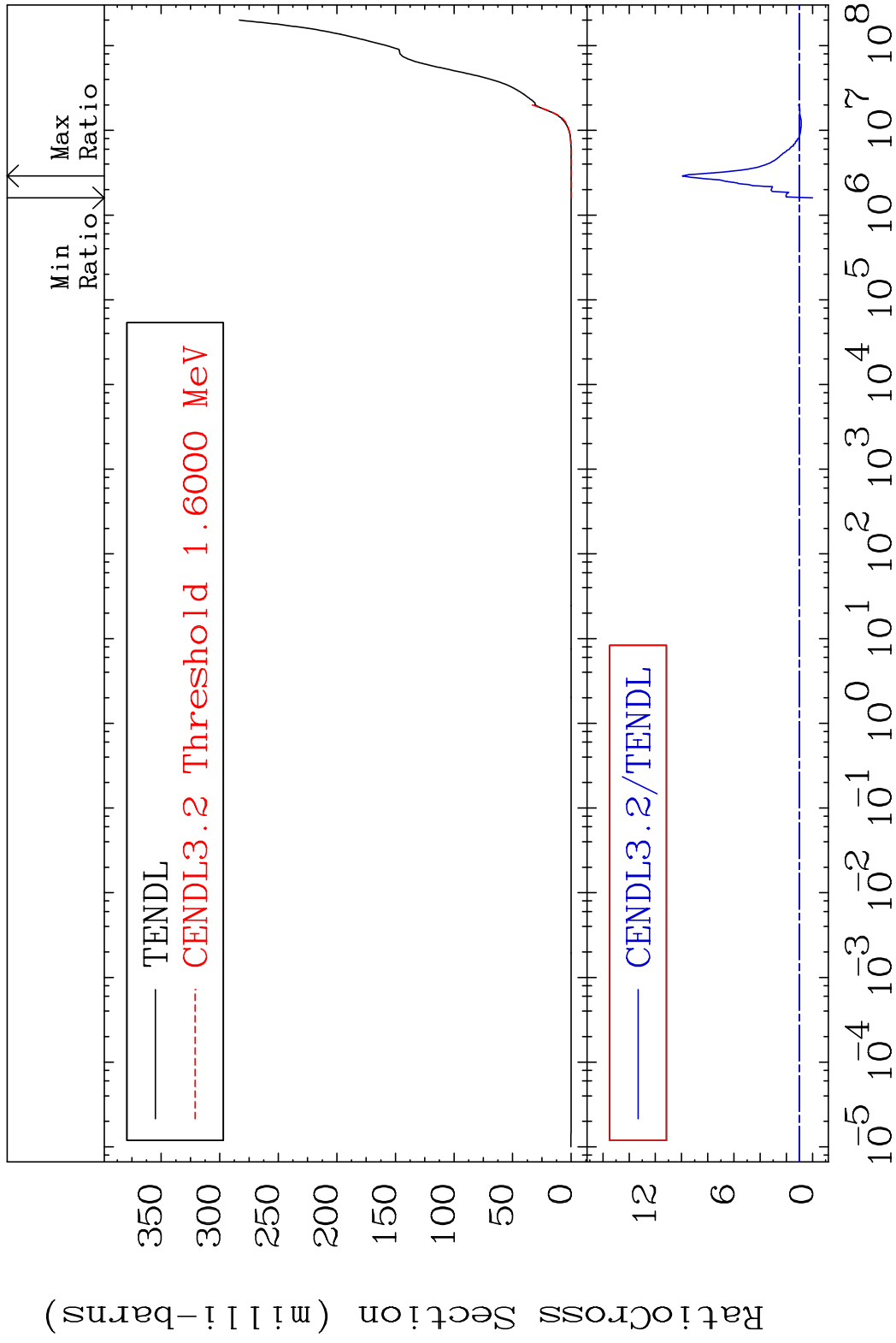
54-Xe-124

MAT 5425

He-4 Production

54-Xe-124

Cross Section -100.0 To 893.8 %



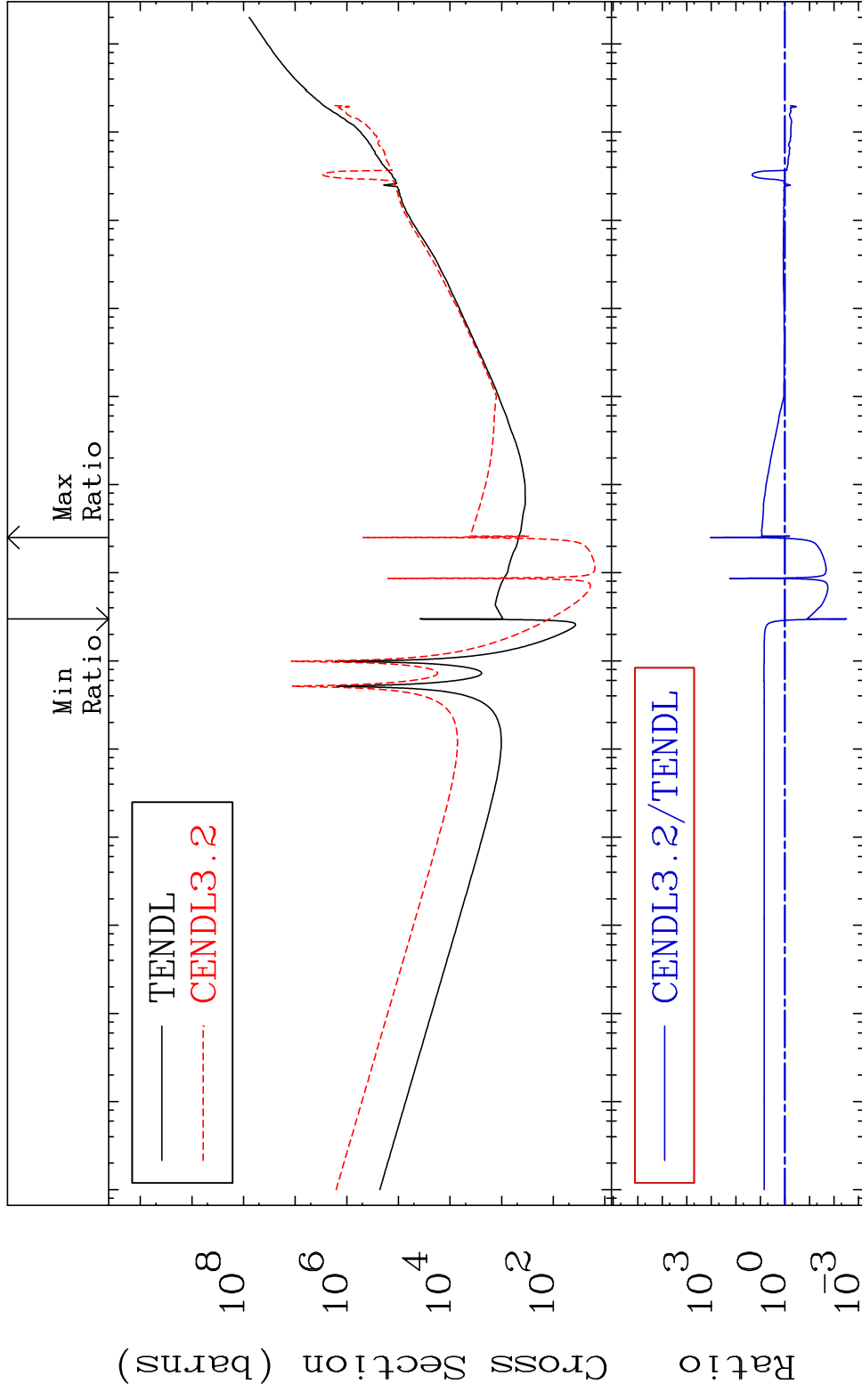
39

Incident Energy (eV)

54-Xe-124



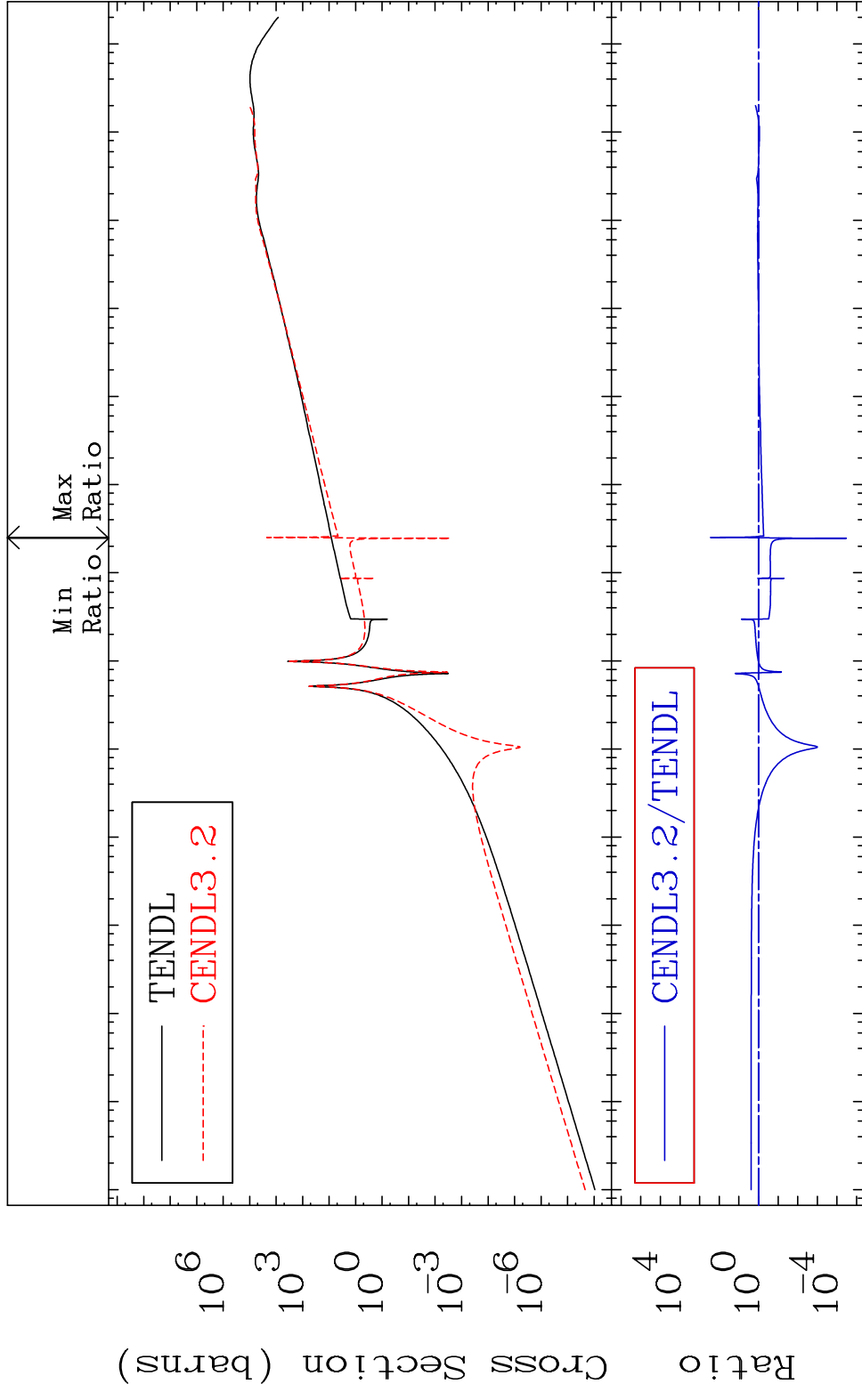
MAT 5425 Kerma total (eV-barns) 54-Xe-124  
 Cross Section -99.69 To 9999. %



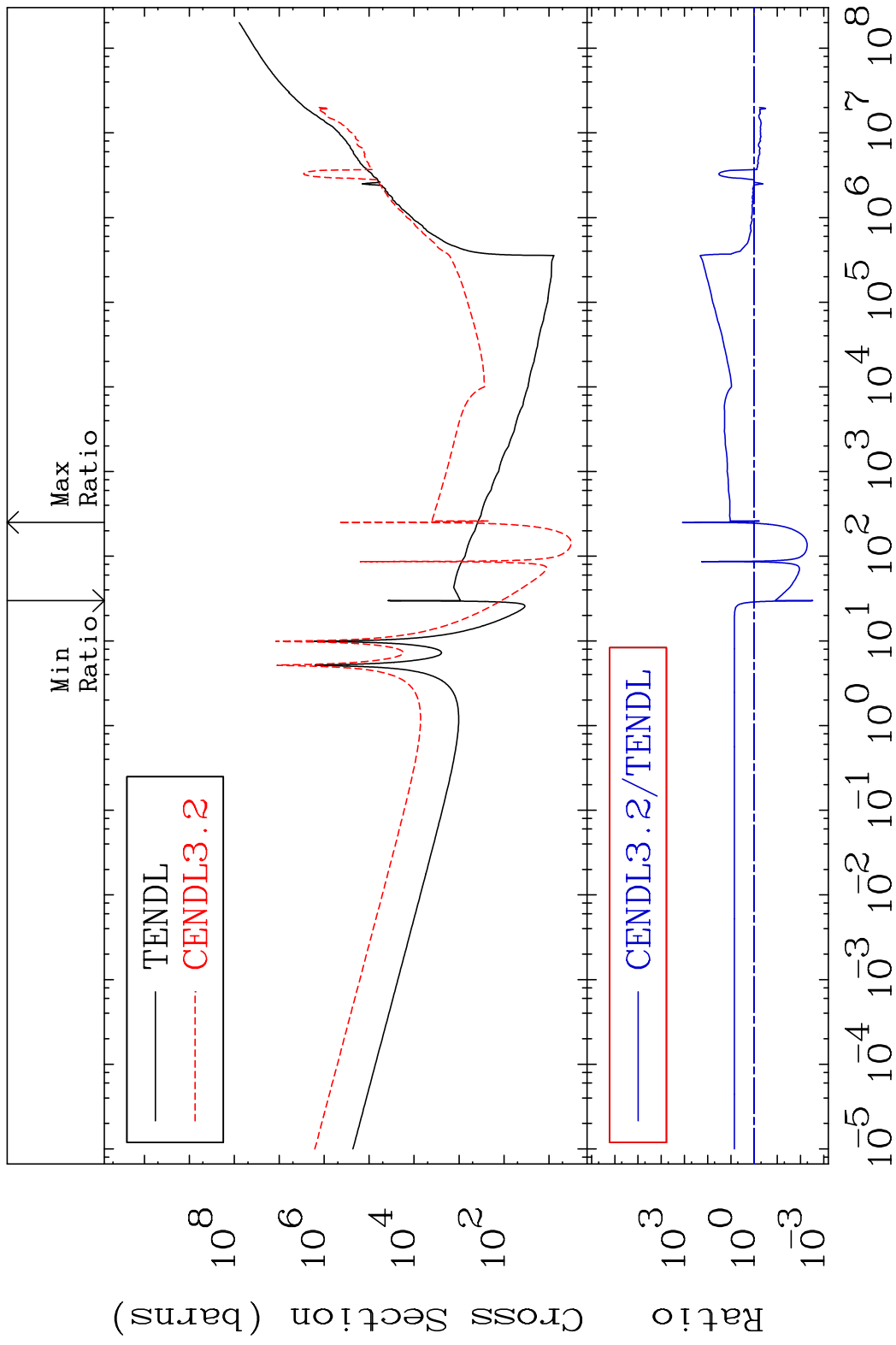
40 Incident Energy (eV) 54-Xe-124

MAT 5425

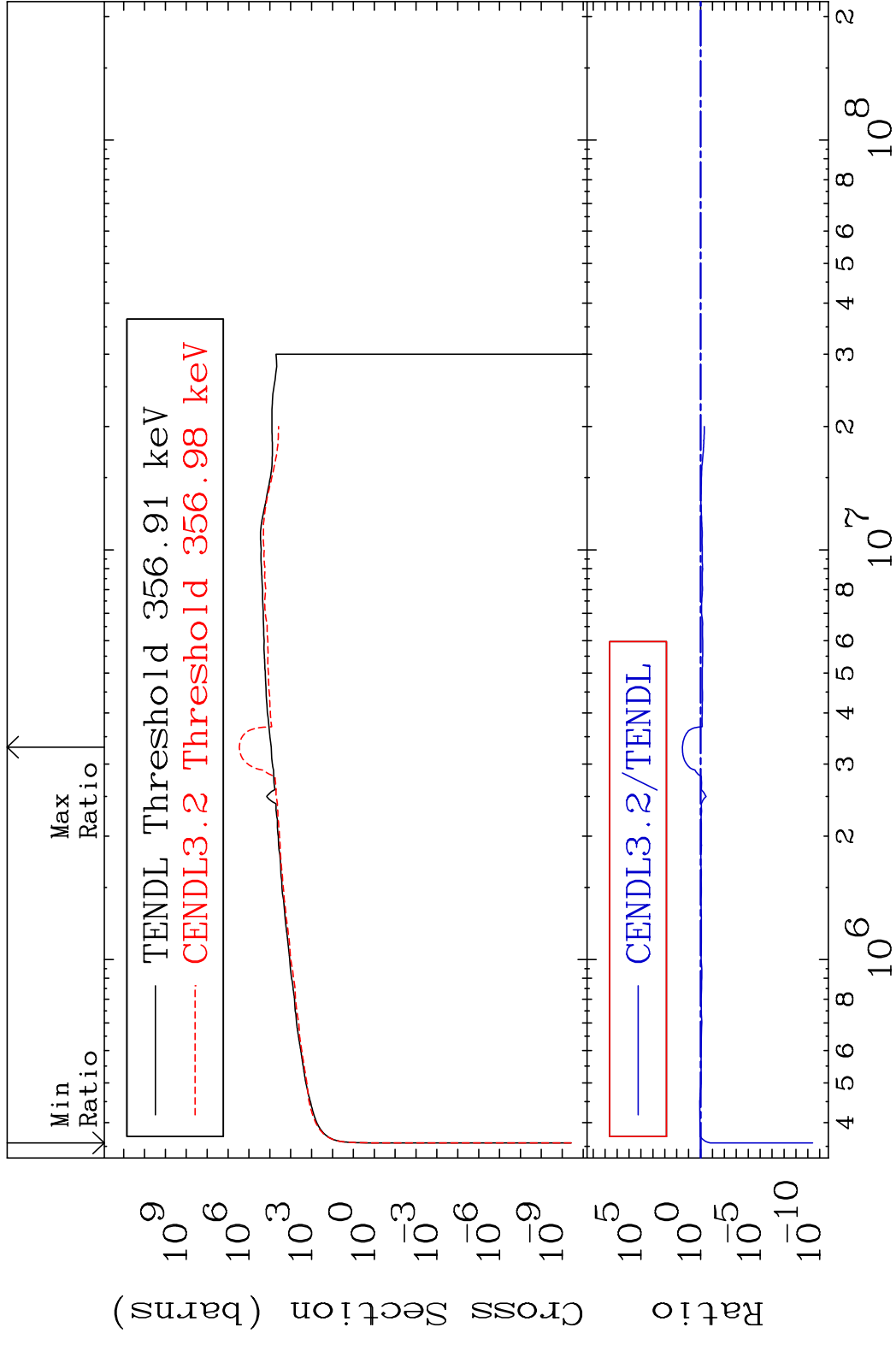
Kerma elastic  
Cross Section -100.0 To 9999. %  
54-Xe-124



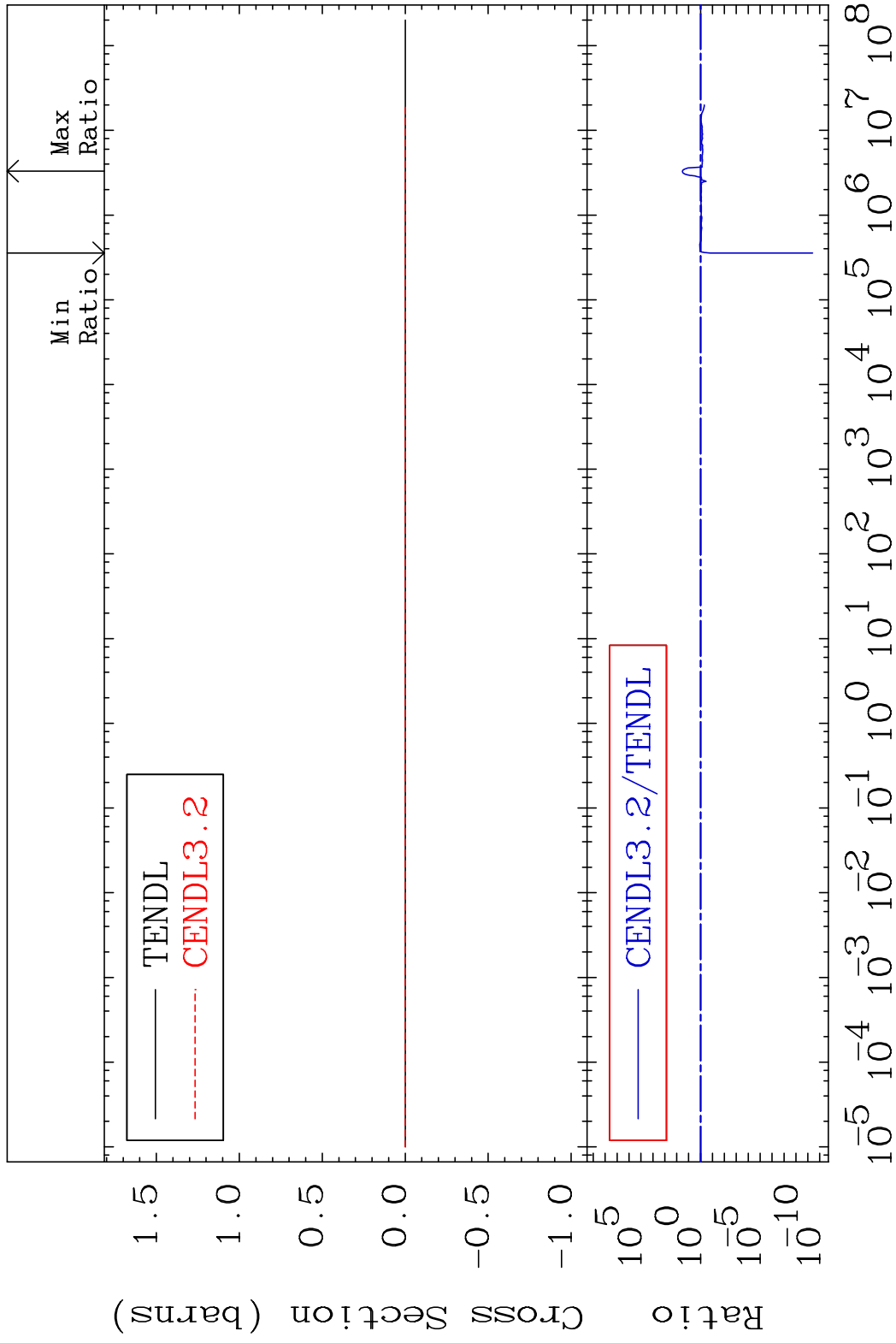
MAT 5425 Kerma non-elastic (all but mt2) 54-Xe-124  
 Cross Section -99.70 To 9999. %



MAT 5425 Kerma inelastic (mt51-91) 54-Xe-124  
 Cross Section -100.0 To 3260. %

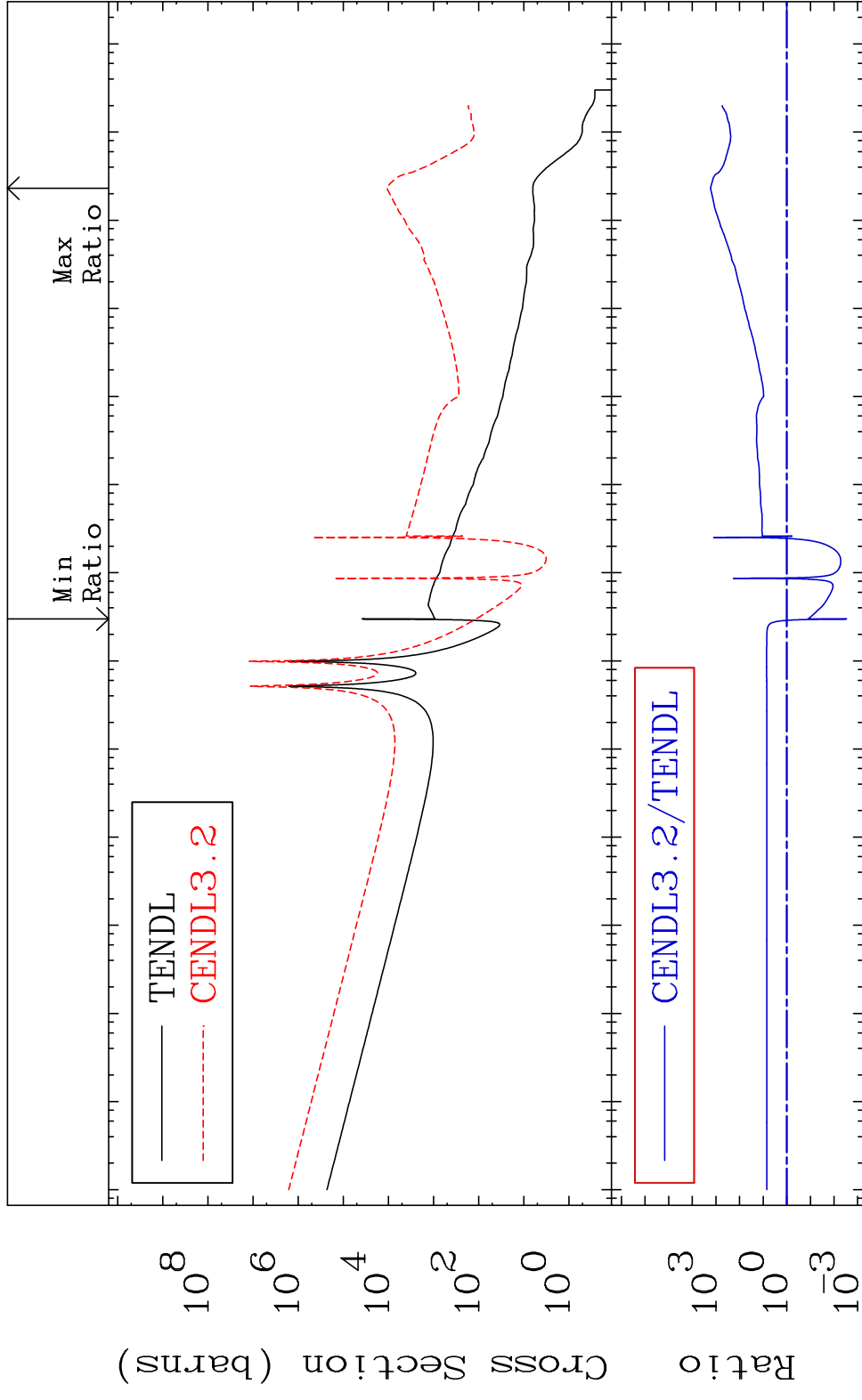


MAT 5425 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-124  
 Cross Section -100.0 To 3260. %



MAT 5425

Kerma capture (mt102) 54-Xe-124  
Cross Section -99.70 To 9999. %

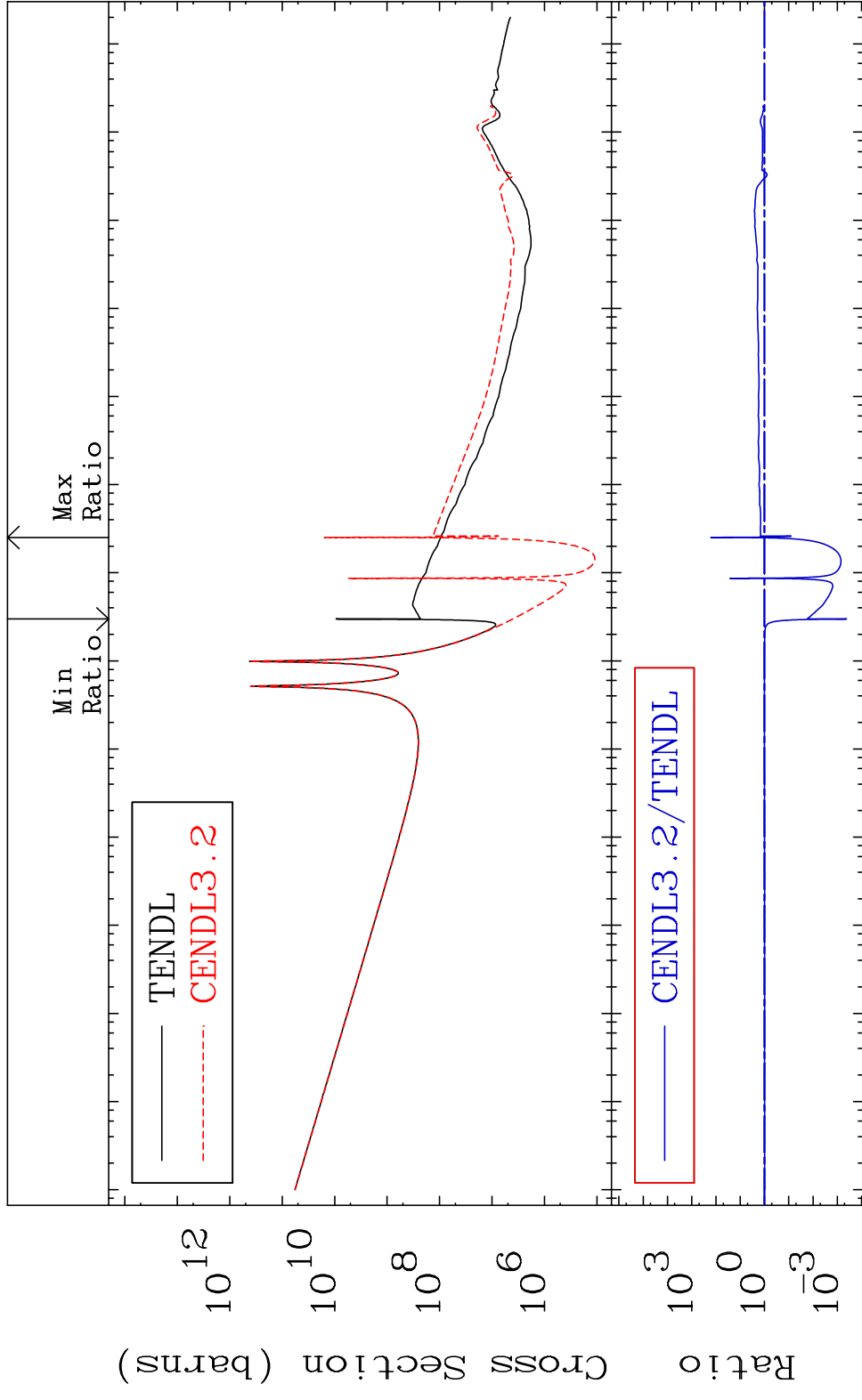


45

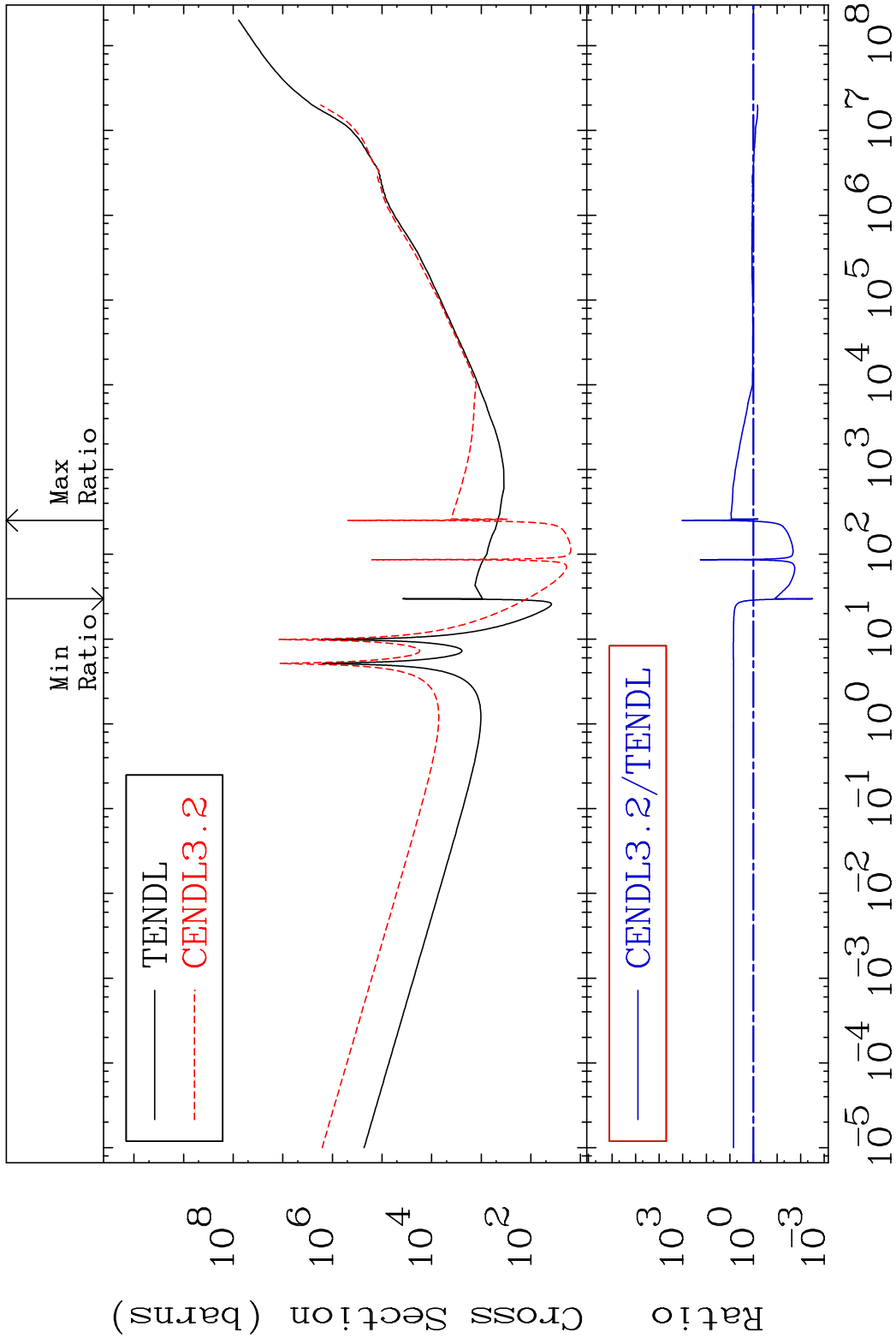
Incident Energy (eV)

54-Xe-124

MAT 5425 Total photon (eV-barns) 54-Xe-124  
 Cross Section -99.96 To 9999. %



MAT 5425 Total kinematic kerma (high limit) 54-Xe-124  
 Cross Section -99.69 To 9999. %



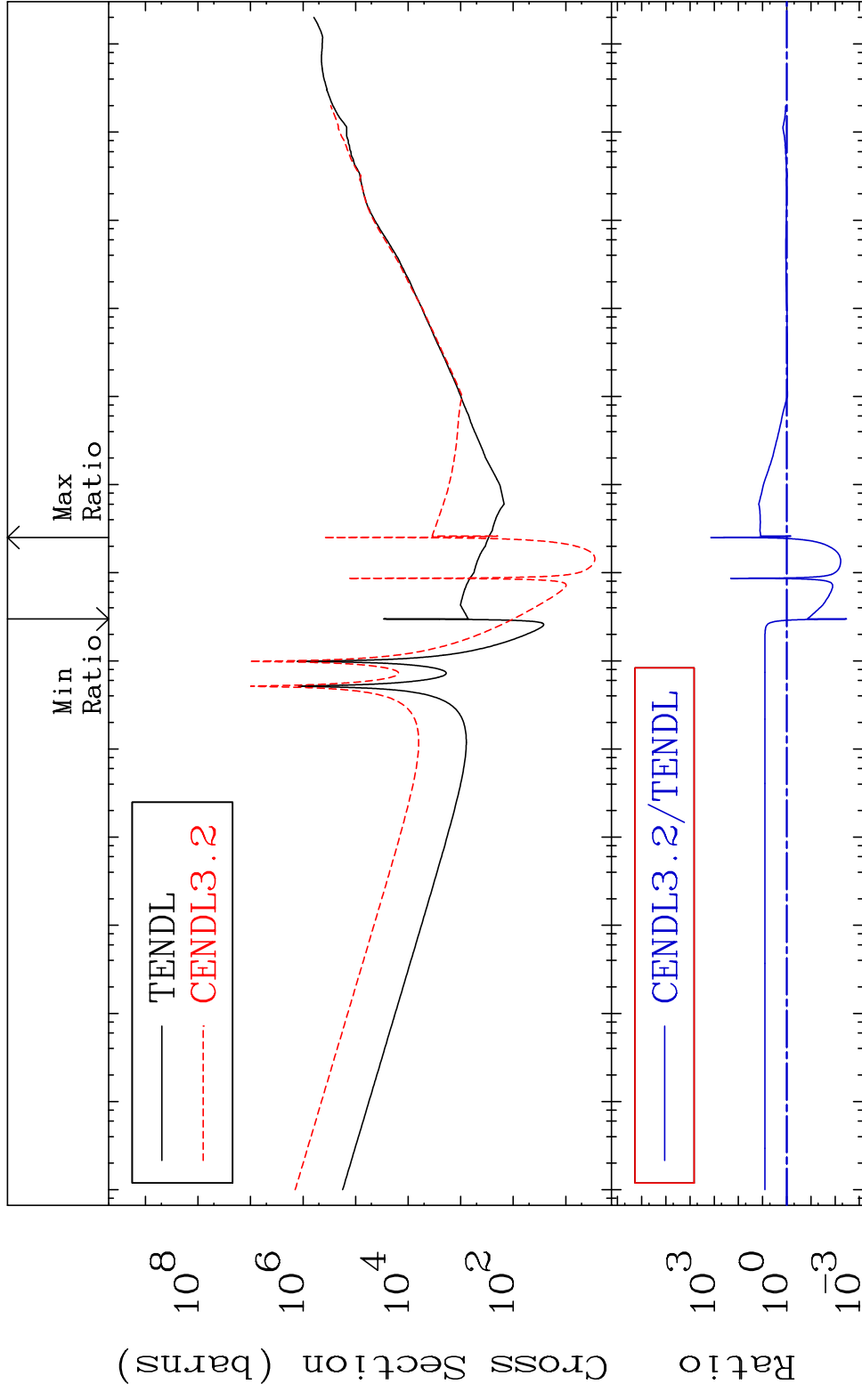


MAT 5425

Dpa total (eV-barns)

54-Xe-124

Cross Section -99.66 To 9999. %

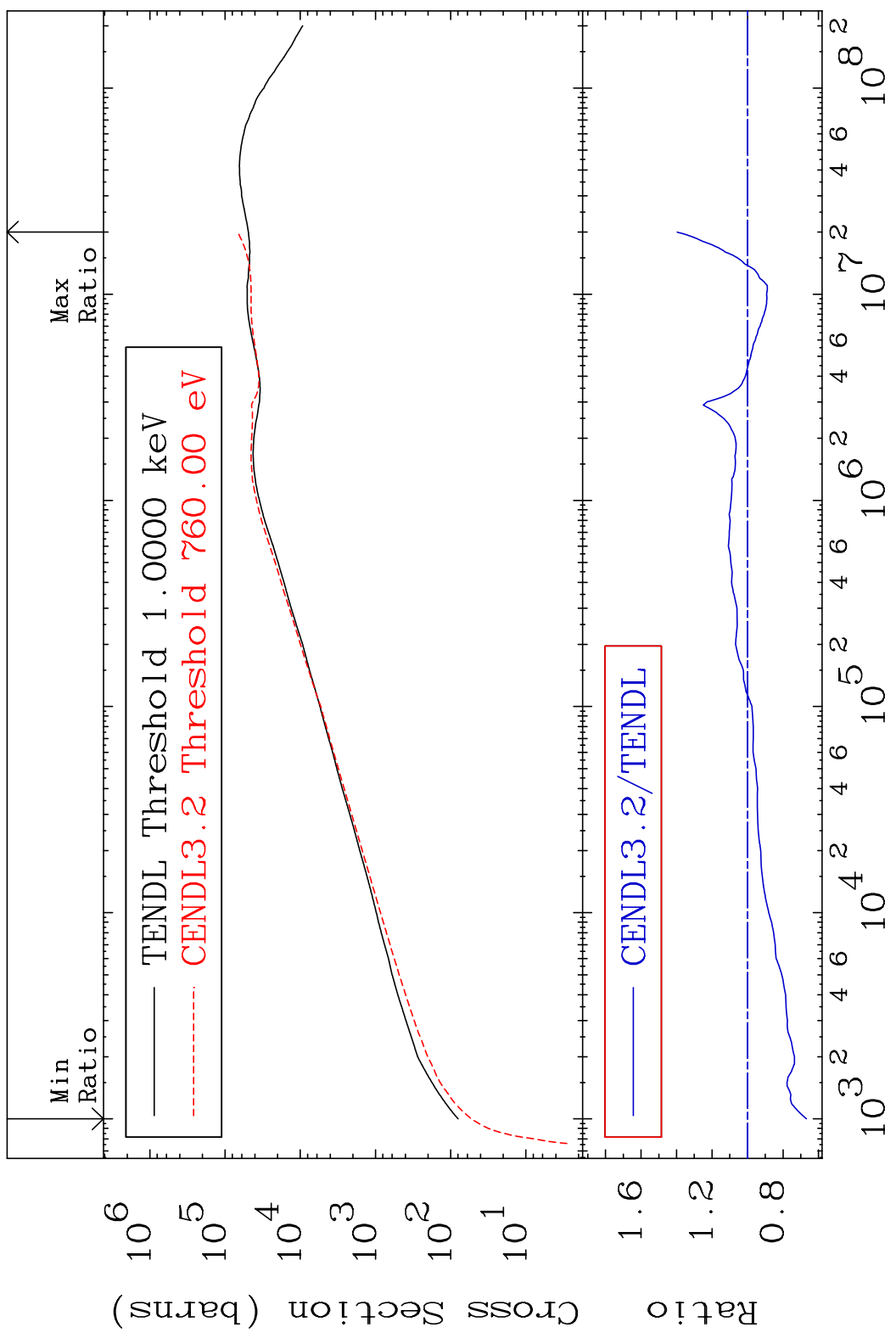


MAT 5425

Dpa elastic (mt2)

54-Xe-124

Cross Section -33.15 To 39.63 %

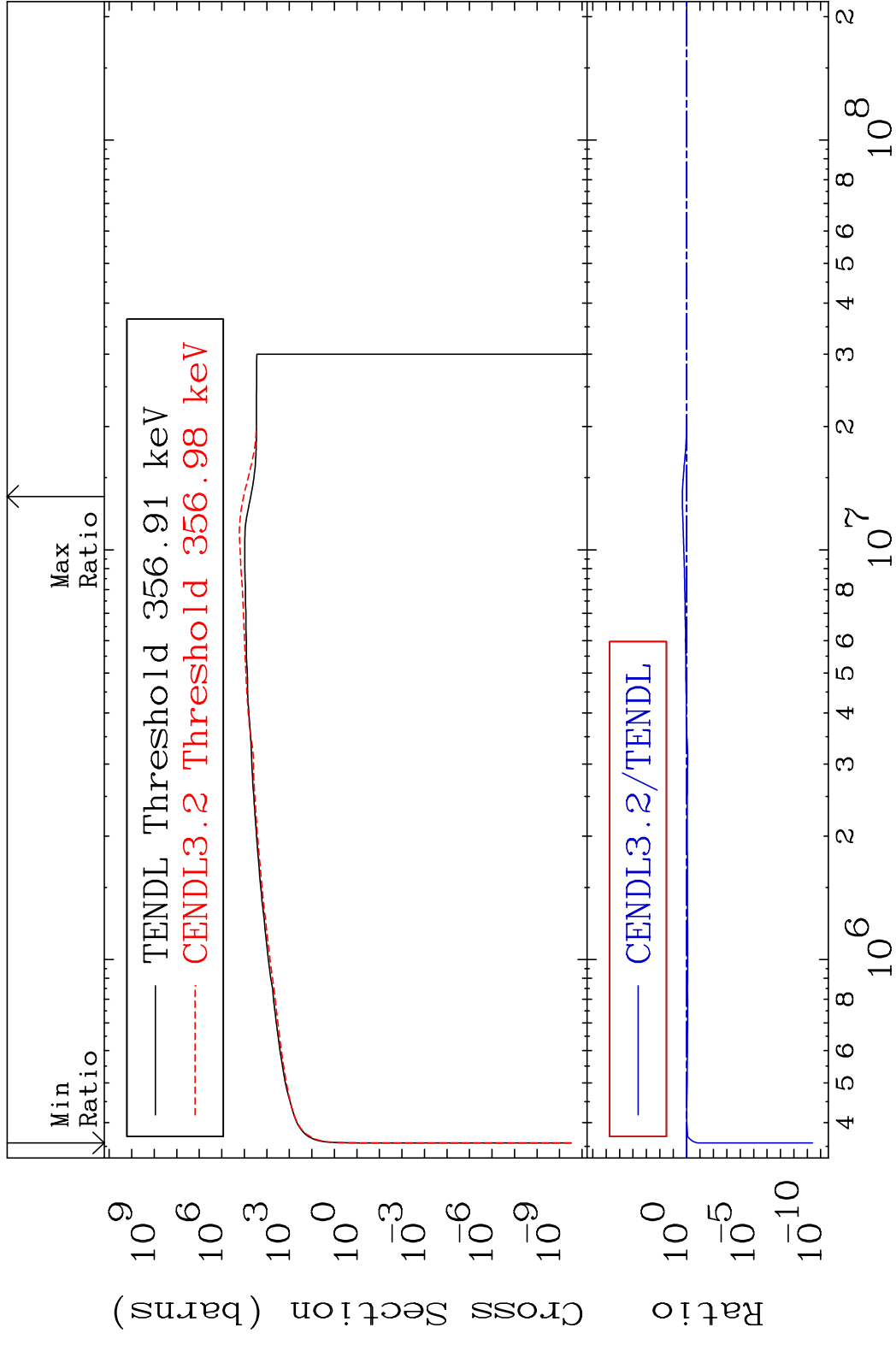


49

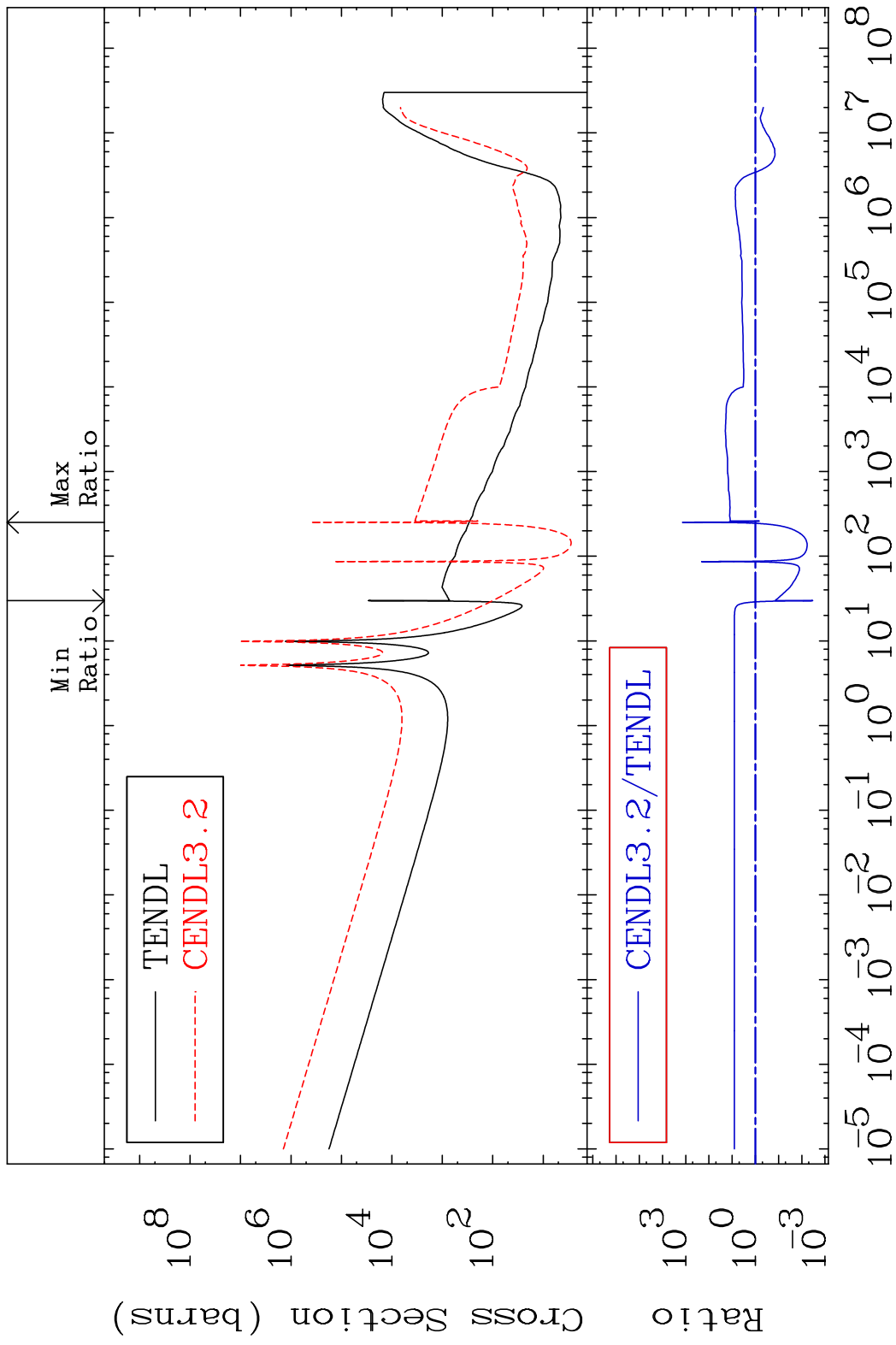
Incident Energy (eV)

54-Xe-124

MAT 5425      Dpa inelastic (mt51-91)      54-Xe-124  
 Cross Section      -100.0 To 108.1 %



MAT 5425 Dpa disappearance (mt102 -120) 54-Xe-124  
 Cross Section -99.66 To 9999. %

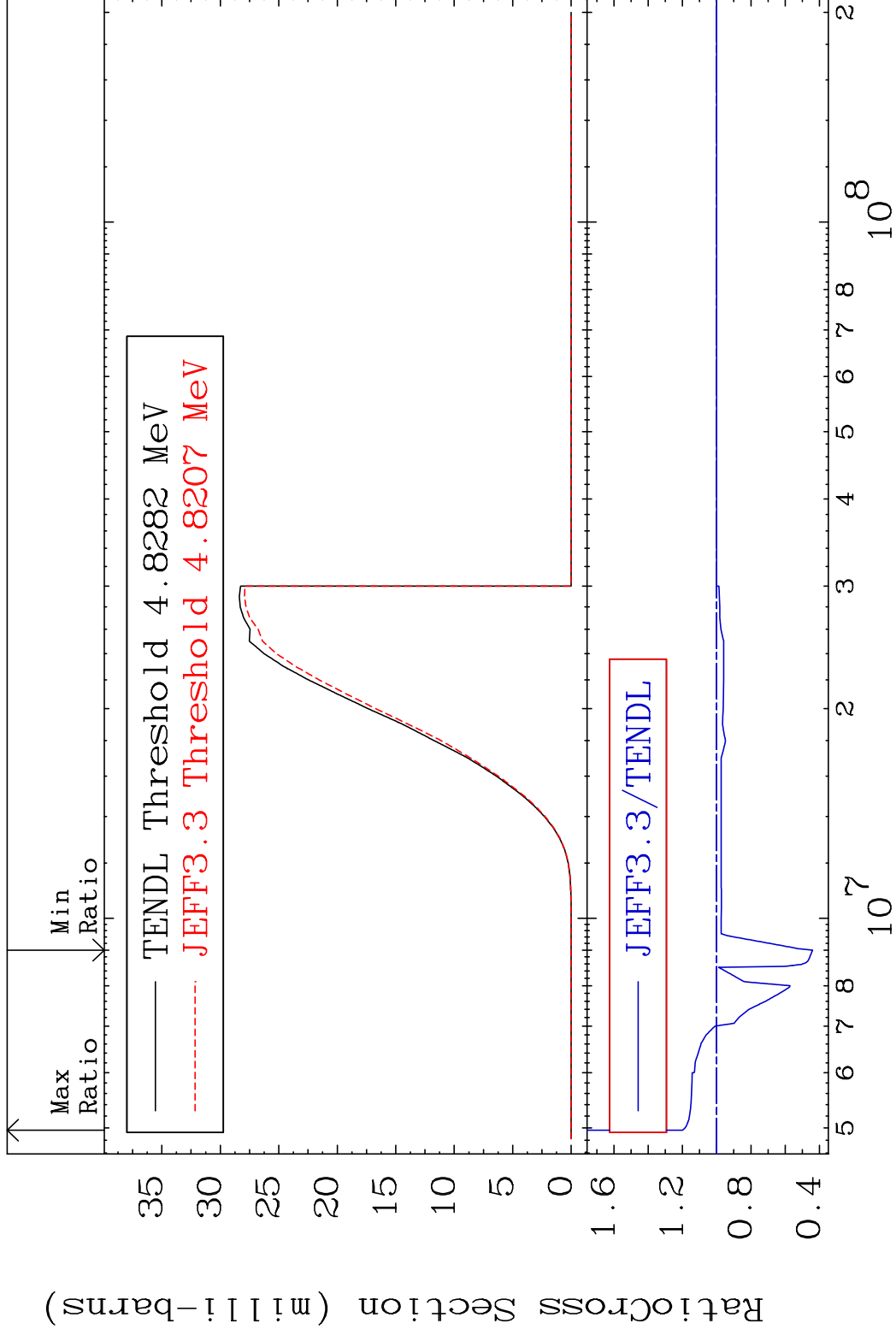


MAT 5425

(n, d)

54-Xe-124

Cross Section -56.01 To 20.06 %

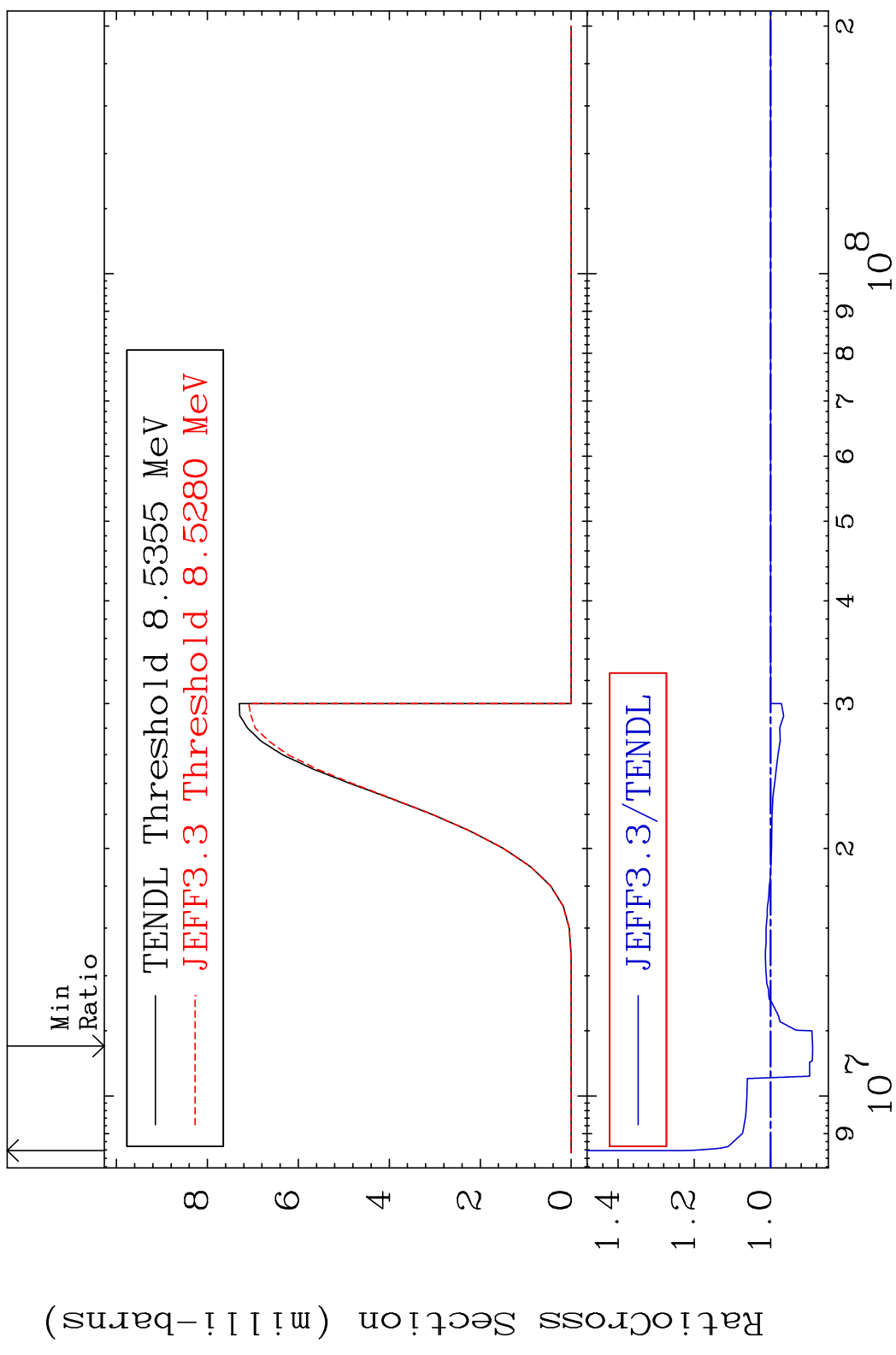


MAT 5425

(n, t)

54-Xe-124

Cross Section -10.98 To 23.13 %



53

Incident Energy (eV)

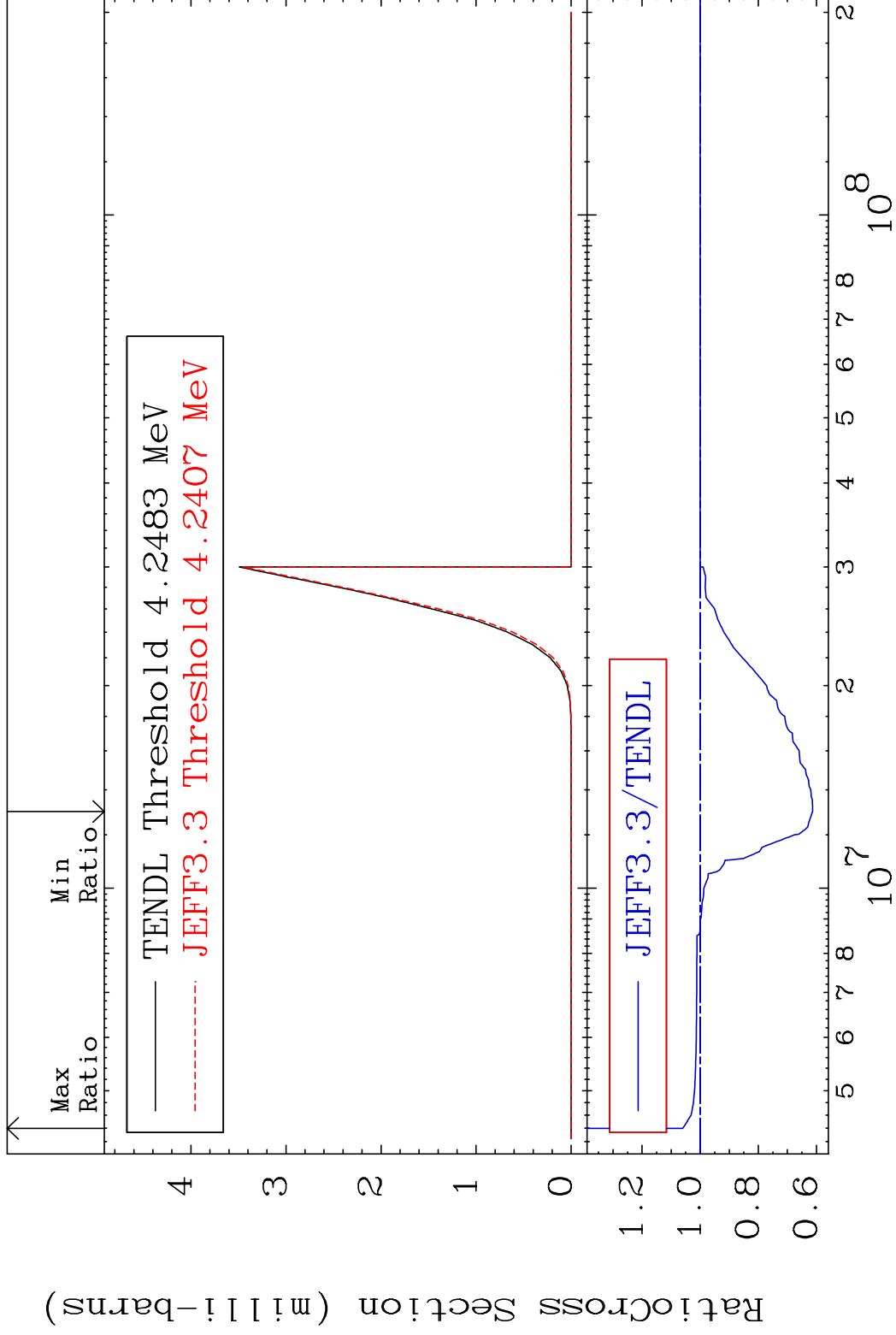
54-Xe-124

MAT 5425

(n, He-3)

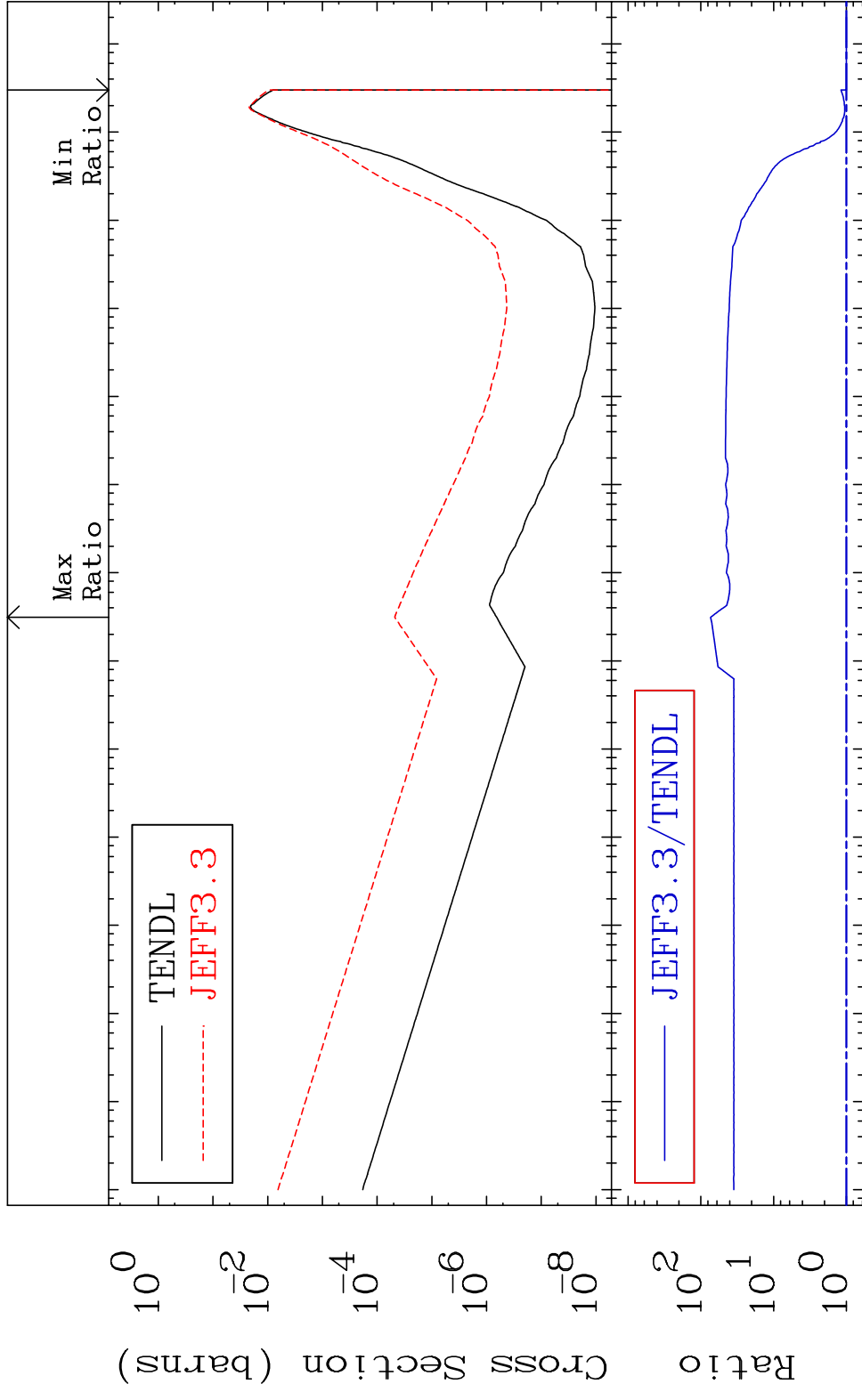
54-Xe-124

Cross Section -38.67 To 6.149 %



MAT 5425

(n,  $\alpha$ )  
Cross Section 0.000 To 7214. %  
54-Xe-124



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>  
Incident Energy (eV)

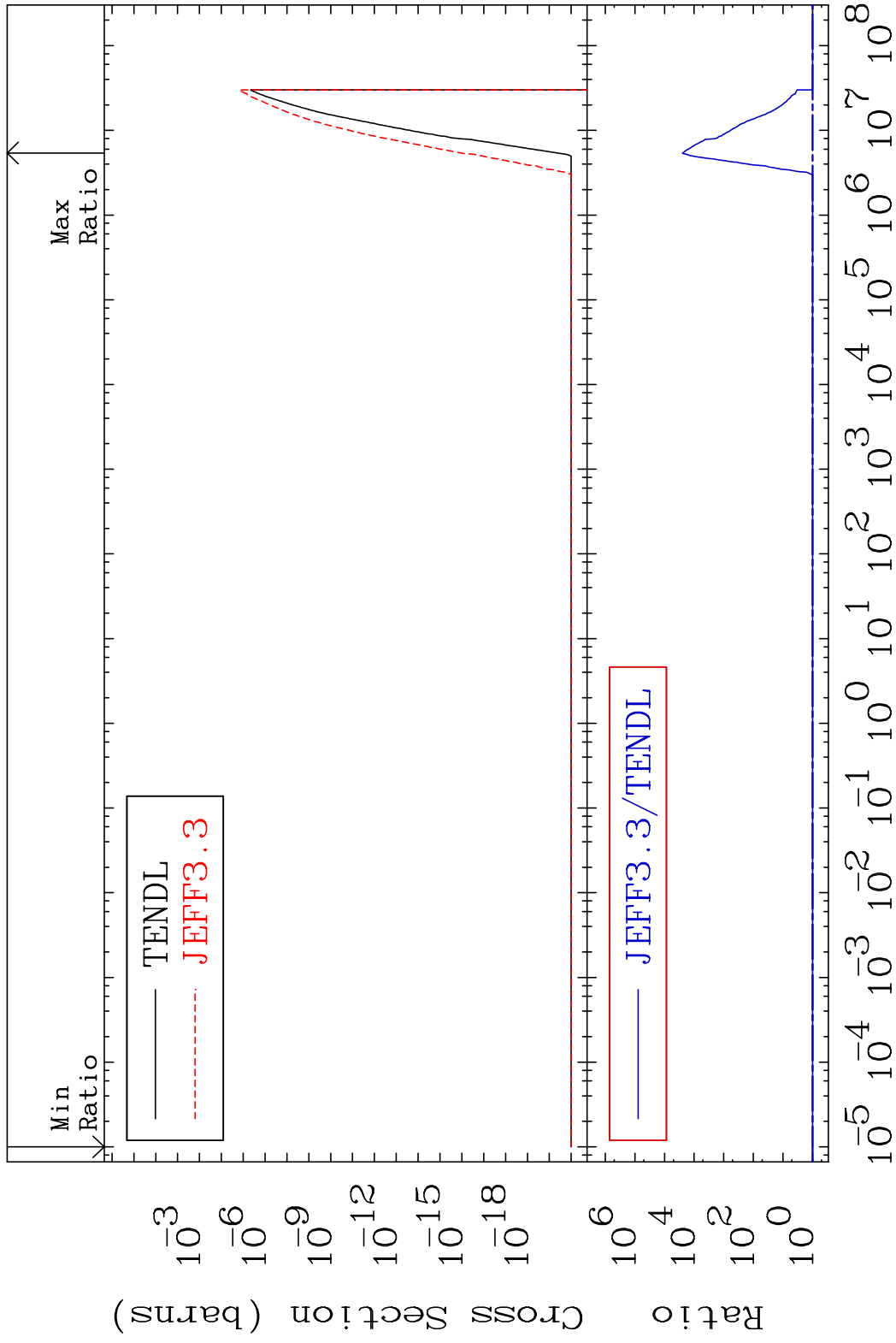


MAT 5425

(n, 2α)

54-Xe-124

Cross Section 0.000 To 9999. %



56

Incident Energy (eV)

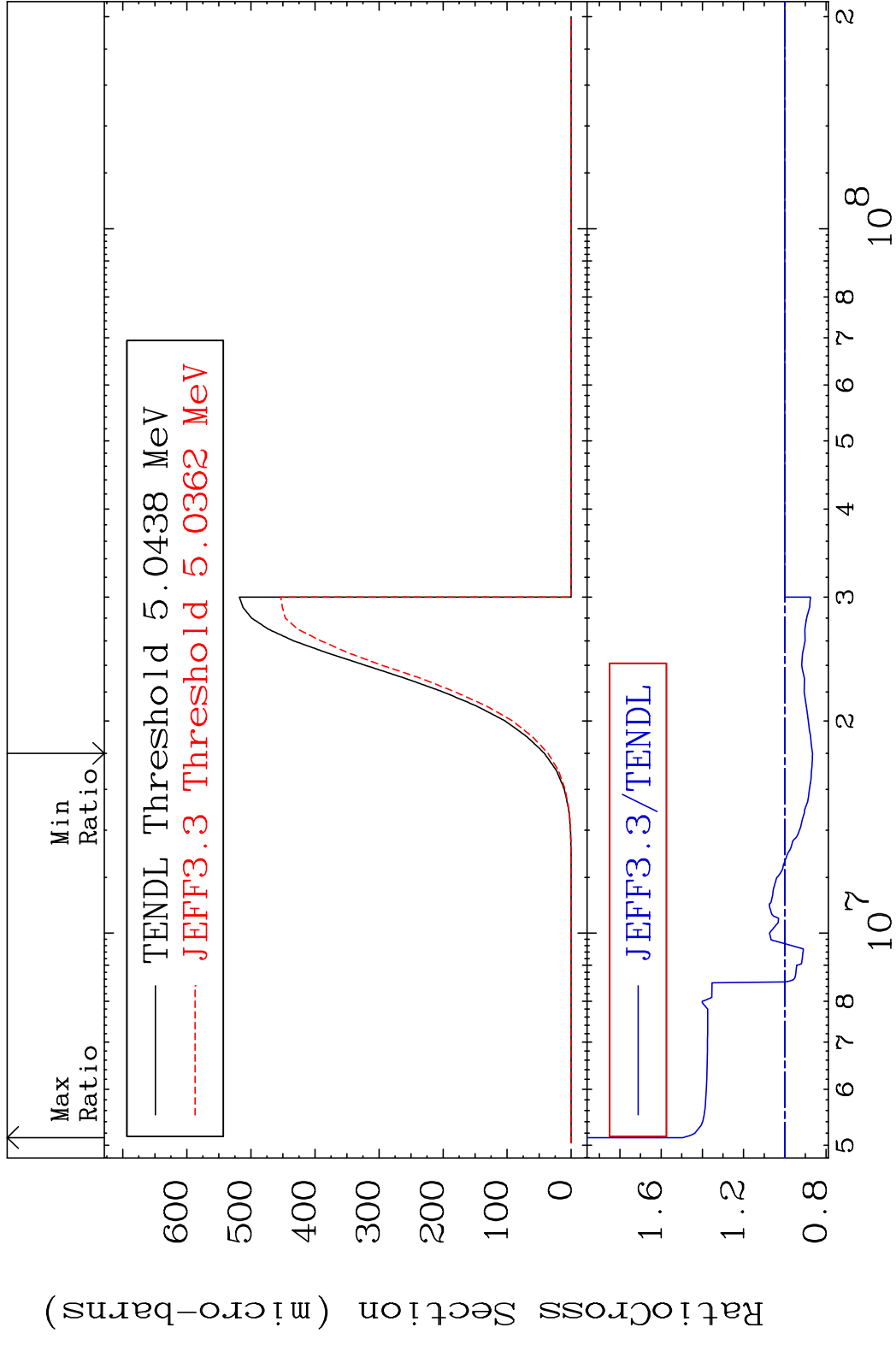
54-Xe-124

MAT 5425

(n,2p)

54-Xe-124

Cross Section -13.47 To 49.70 %

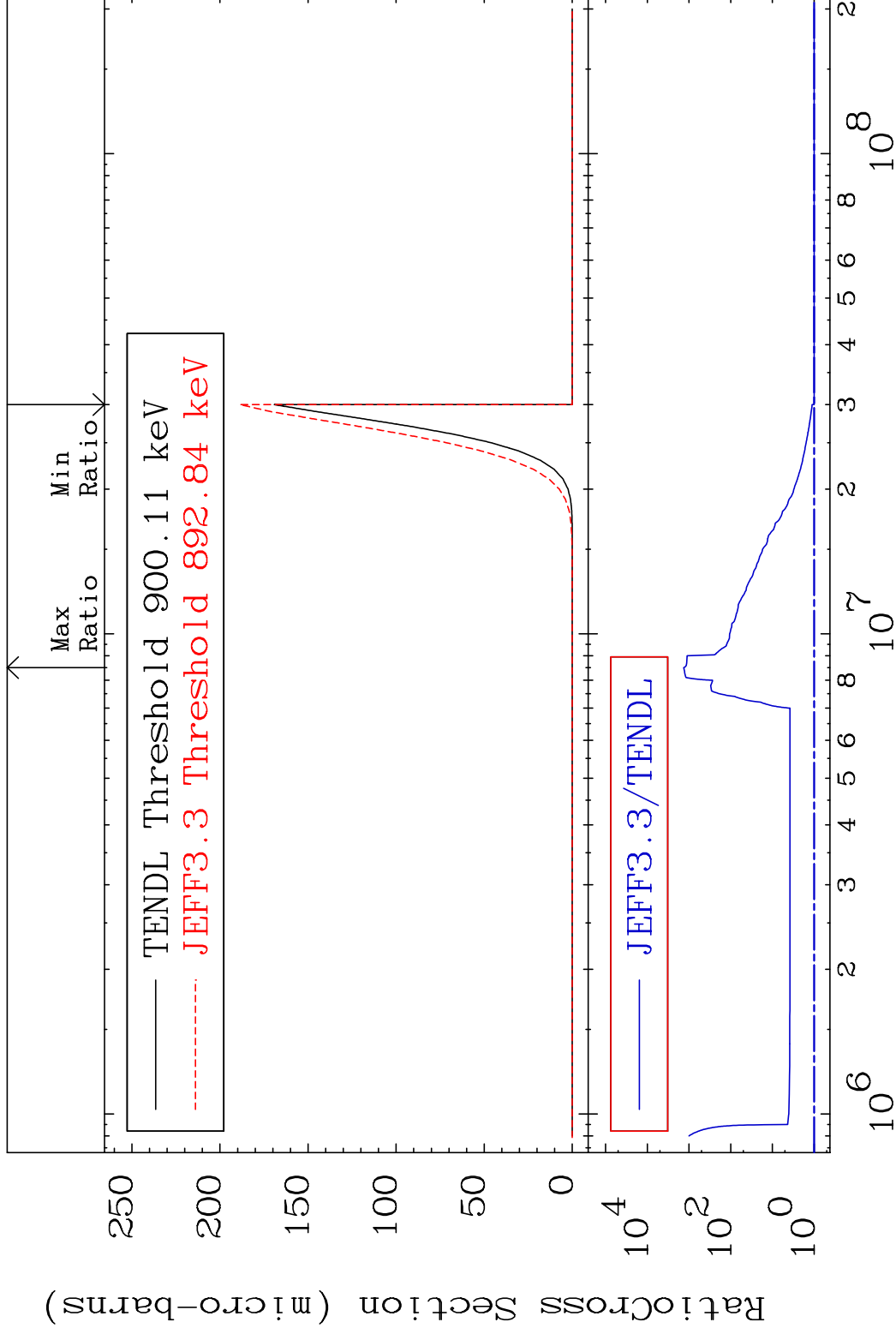


MAT 5425

(n,p)  $\alpha$

54-Xe-124

Cross Section 0.000 To 9999. %



58

Incident Energy (eV)

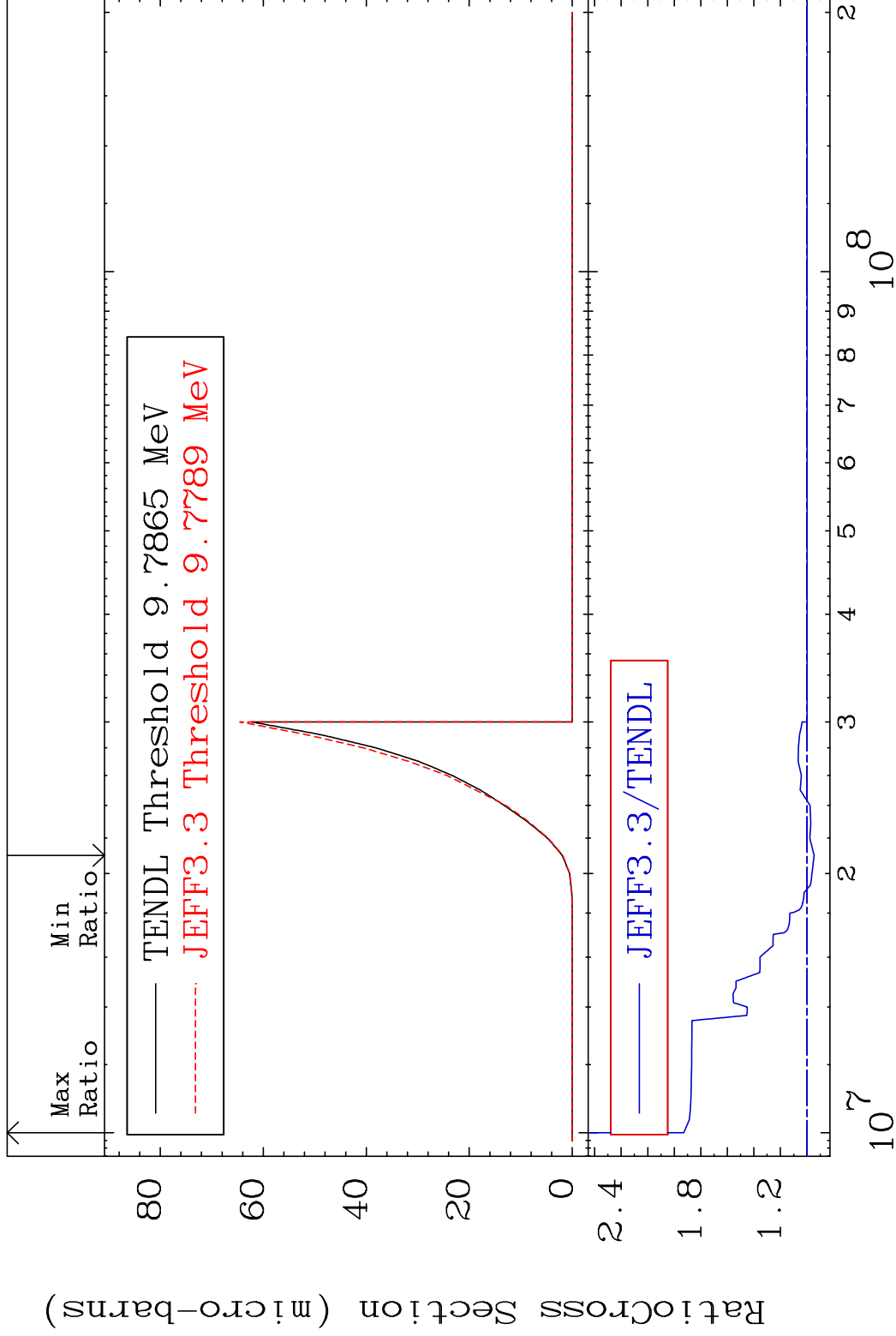
54-Xe-124

MAT 5425

(n,p) d

54-Xe-124

Cross Section -5.357 To 92.92 %



59

Incident Energy (eV)

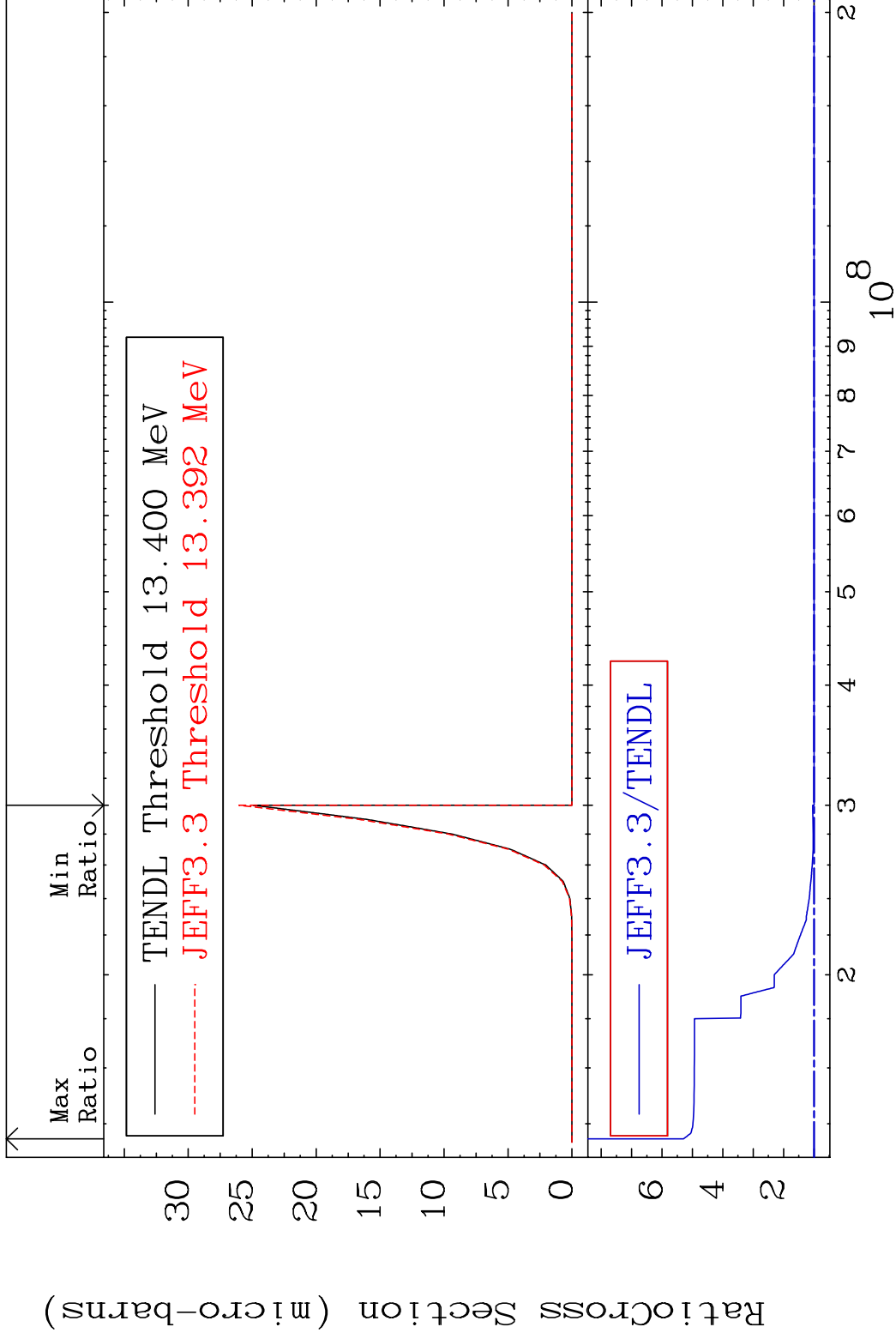
54-Xe-124

MAT 5425

(n,p) t

54-Xe-124

Cross Section 0.000 To 429.5 %



60

Incident Energy (eV)

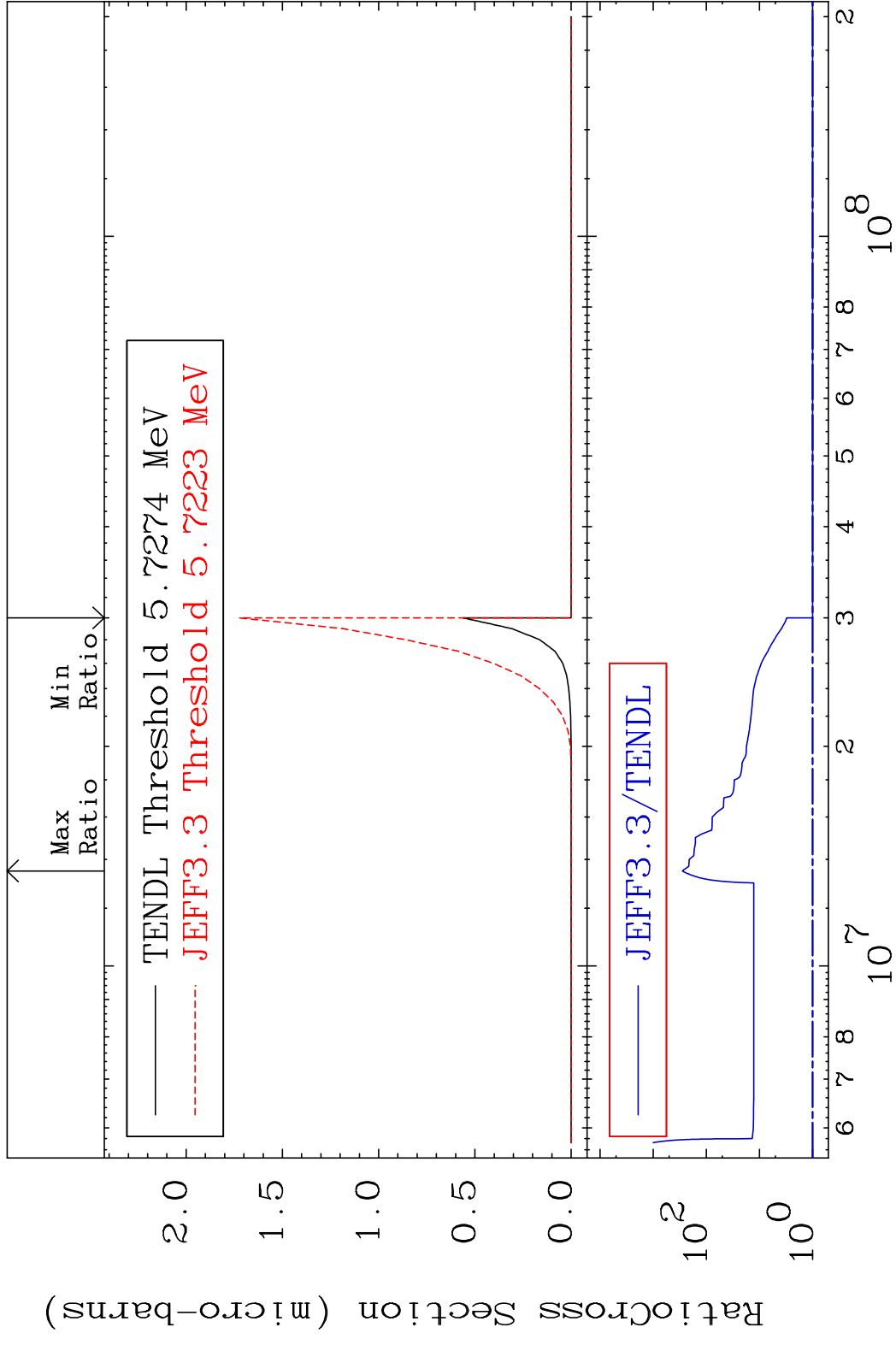
54-Xe-124

MAT 5425

(n,d)  $\alpha$

54-Xe-124

Cross Section 0.000 To 9999. %

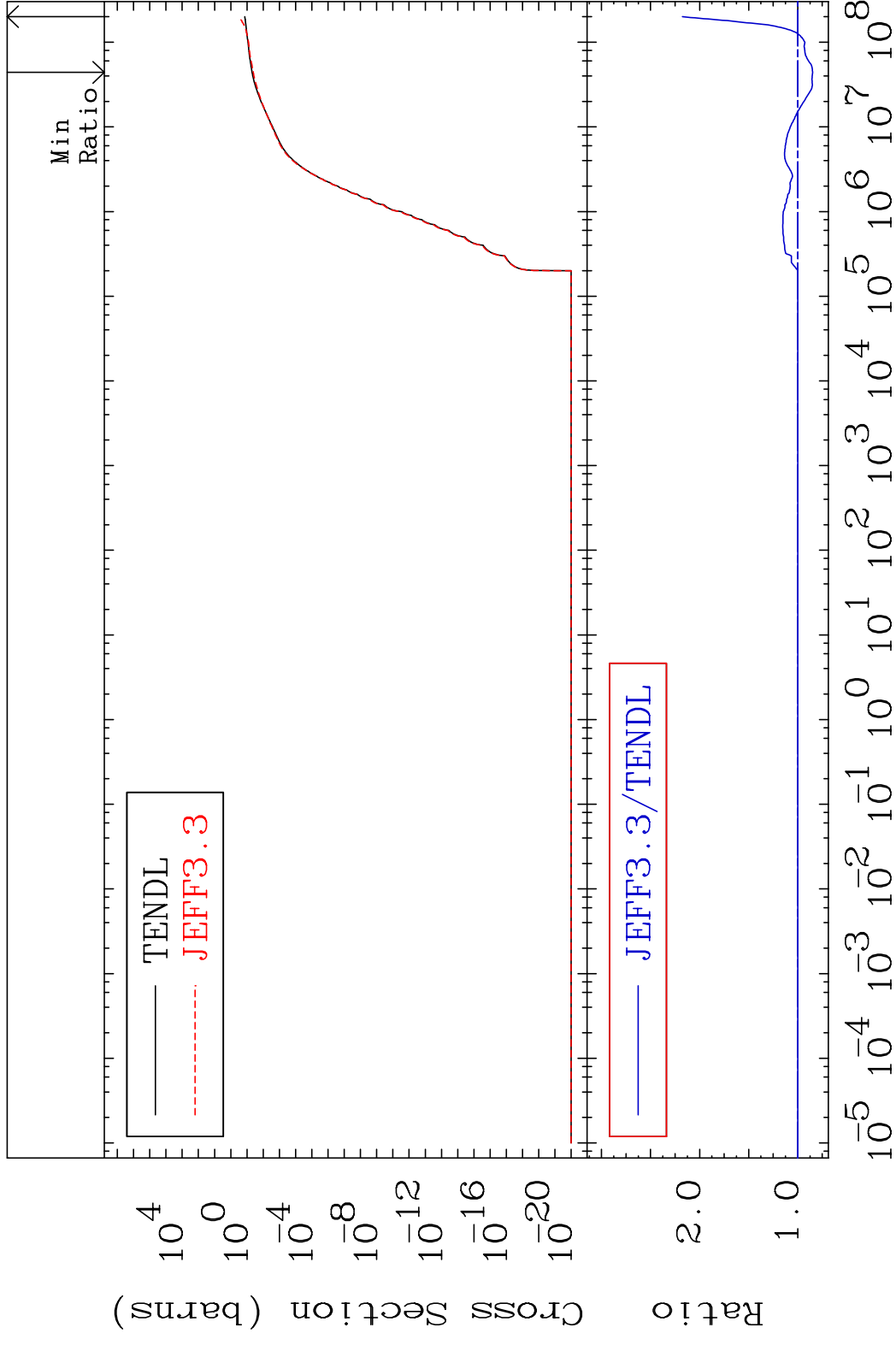


MAT 5425

Hydrogen Production

54-Xe-124

Cross Section -15.10 To 117.6 %

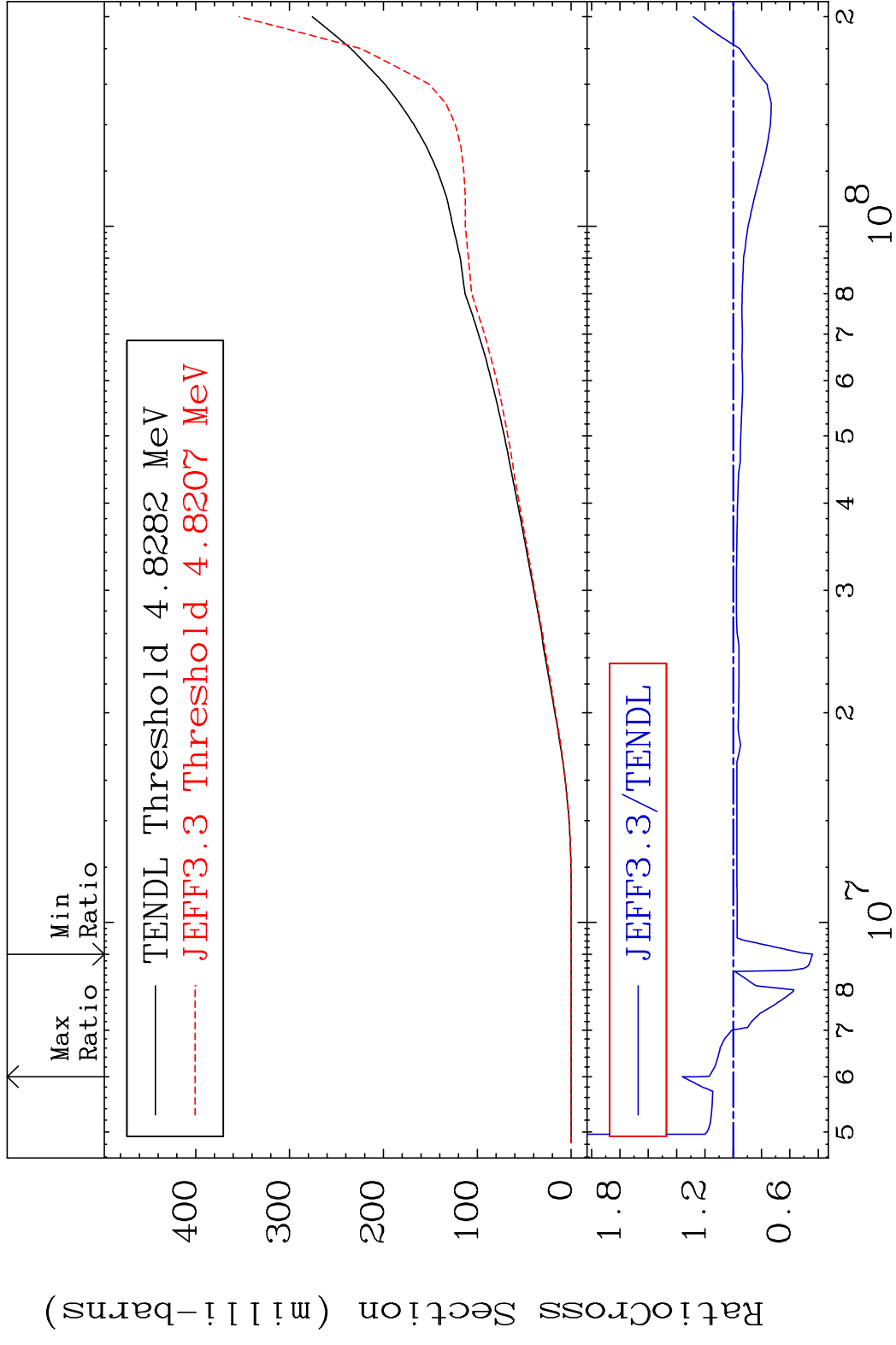


MAT 5425

Deuterium Production

54-Xe-124

Cross Section -56.01 To 35.93 %





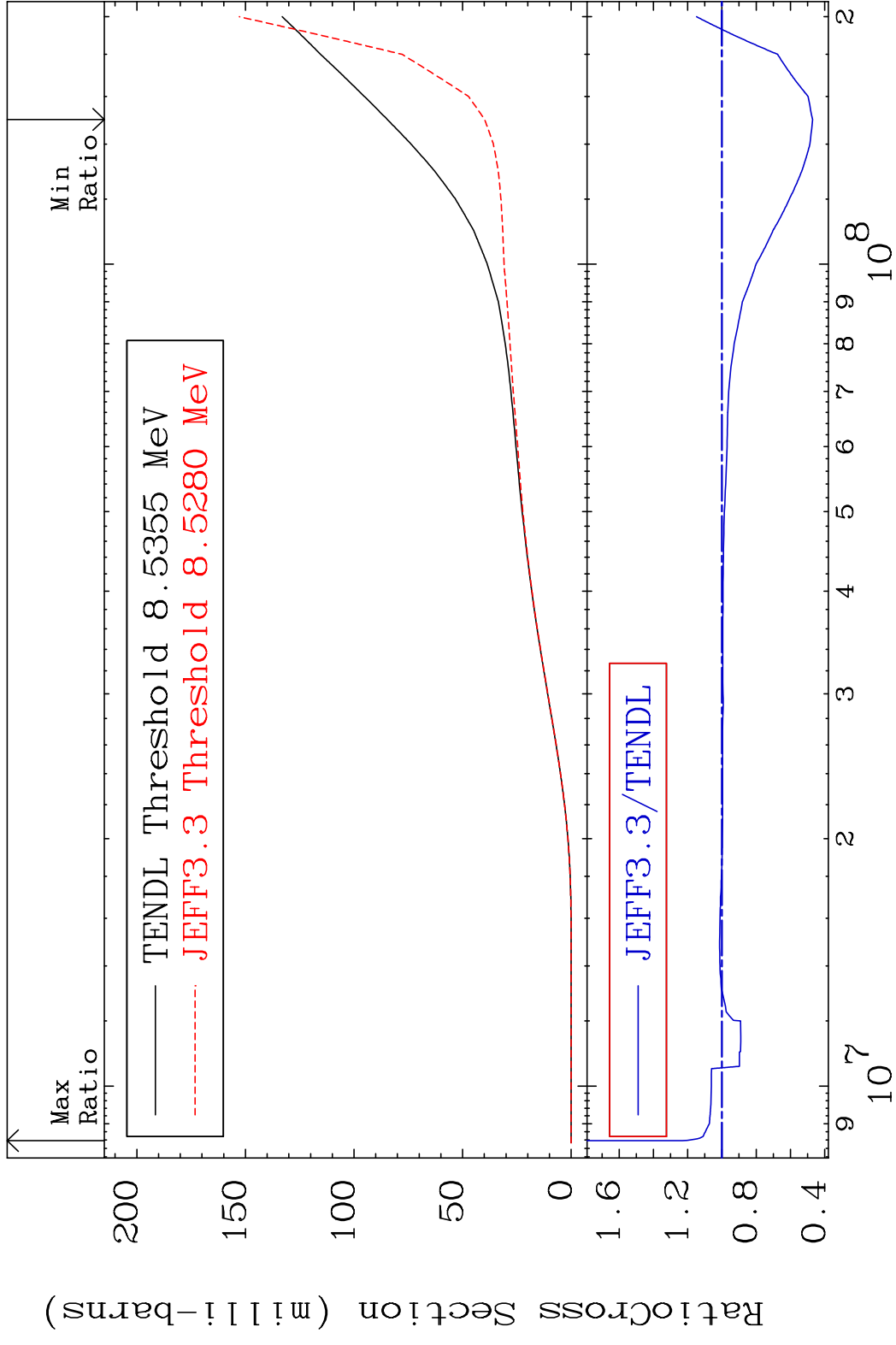
MAT 5425

Tritium Production

54-Xe-124

Cross Section

-52.95 To 23.13 %



64

Incident Energy (eV)

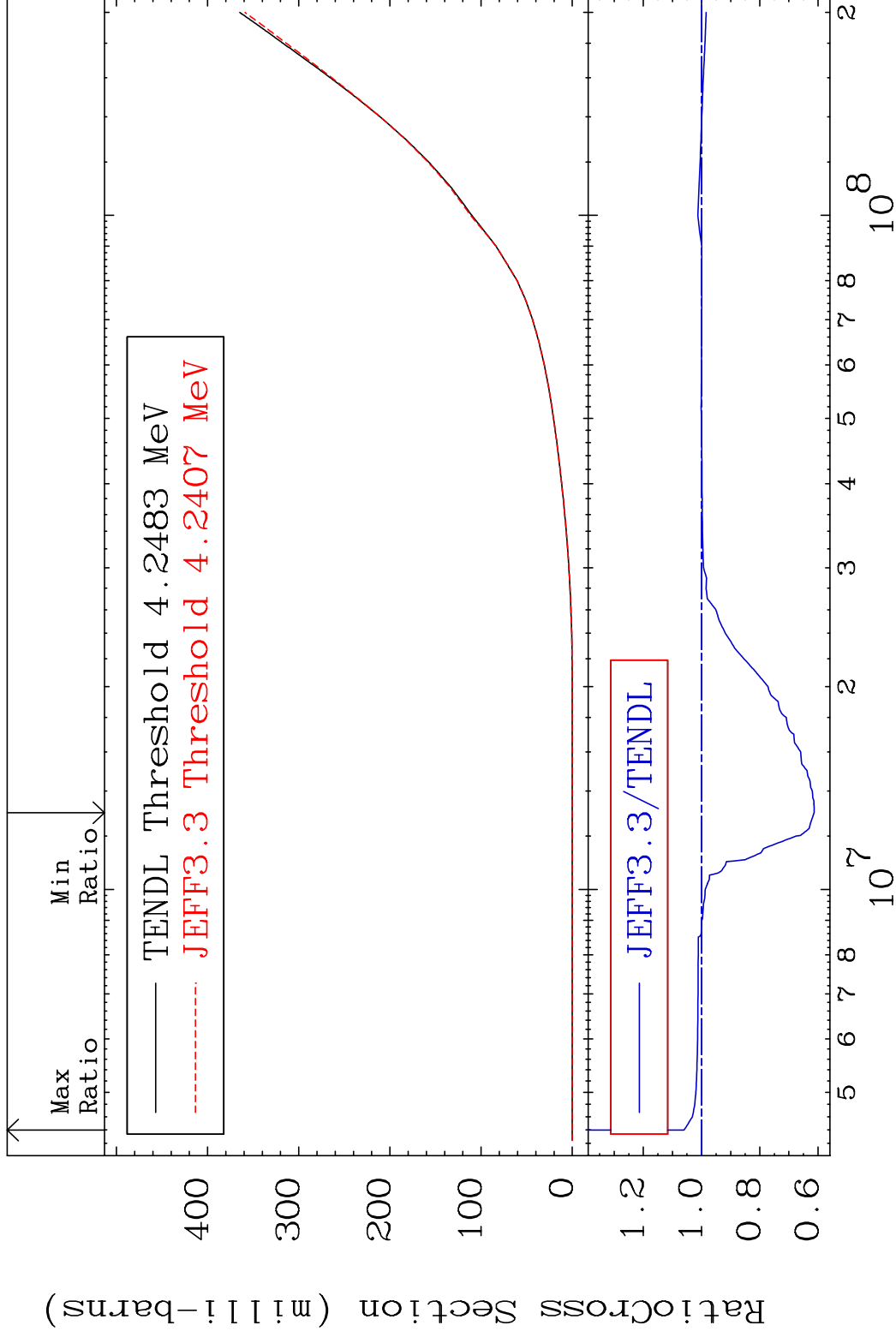
54-Xe-124

MAT 5425

He-3 Production

54-Xe-124

Cross Section -38.67 To 6.149 %



65

Incident Energy (eV)

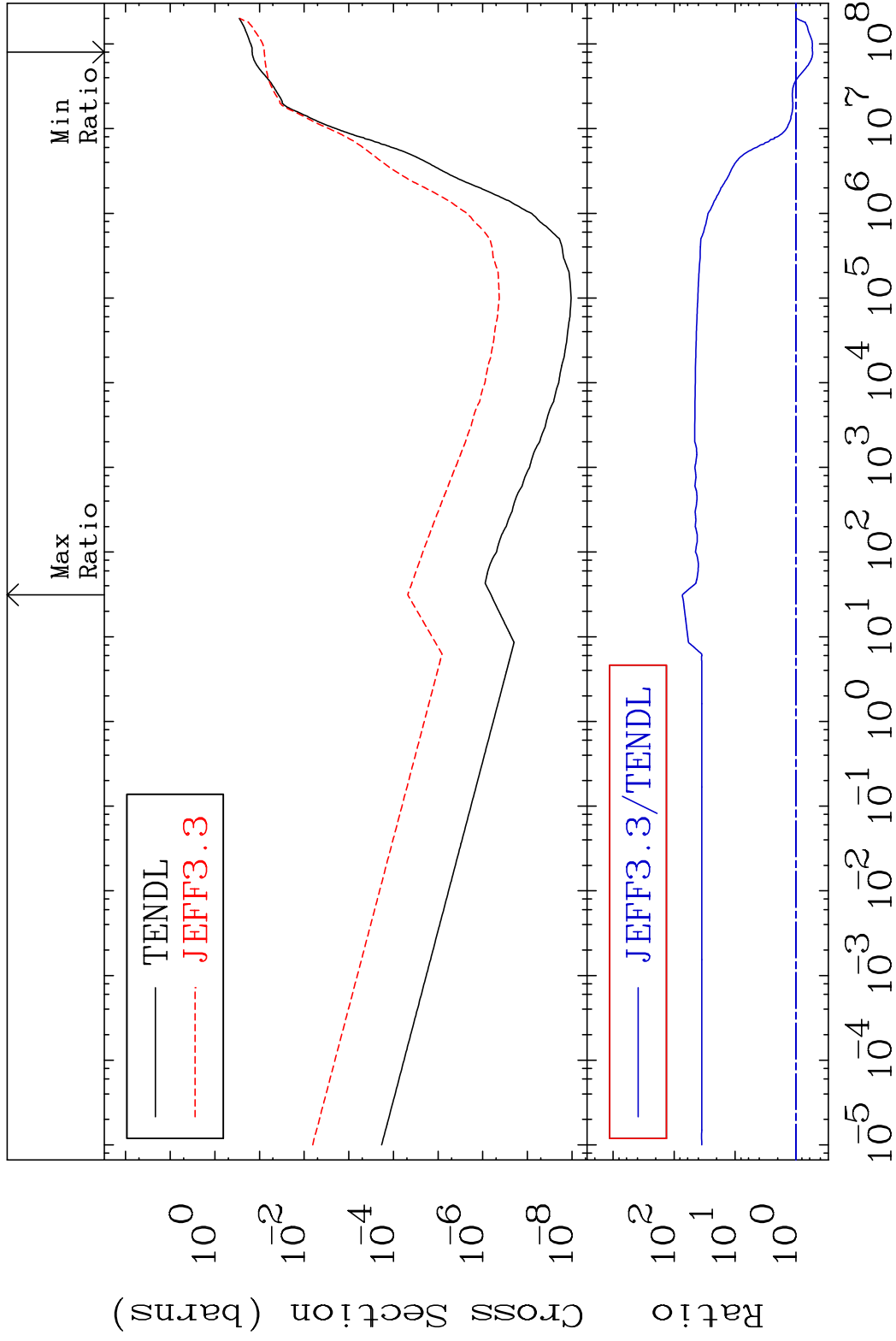
54-Xe-124

MAT 5425

He-4 Production

54-Xe-124

Cross Section -46.48 To 7214. %



66

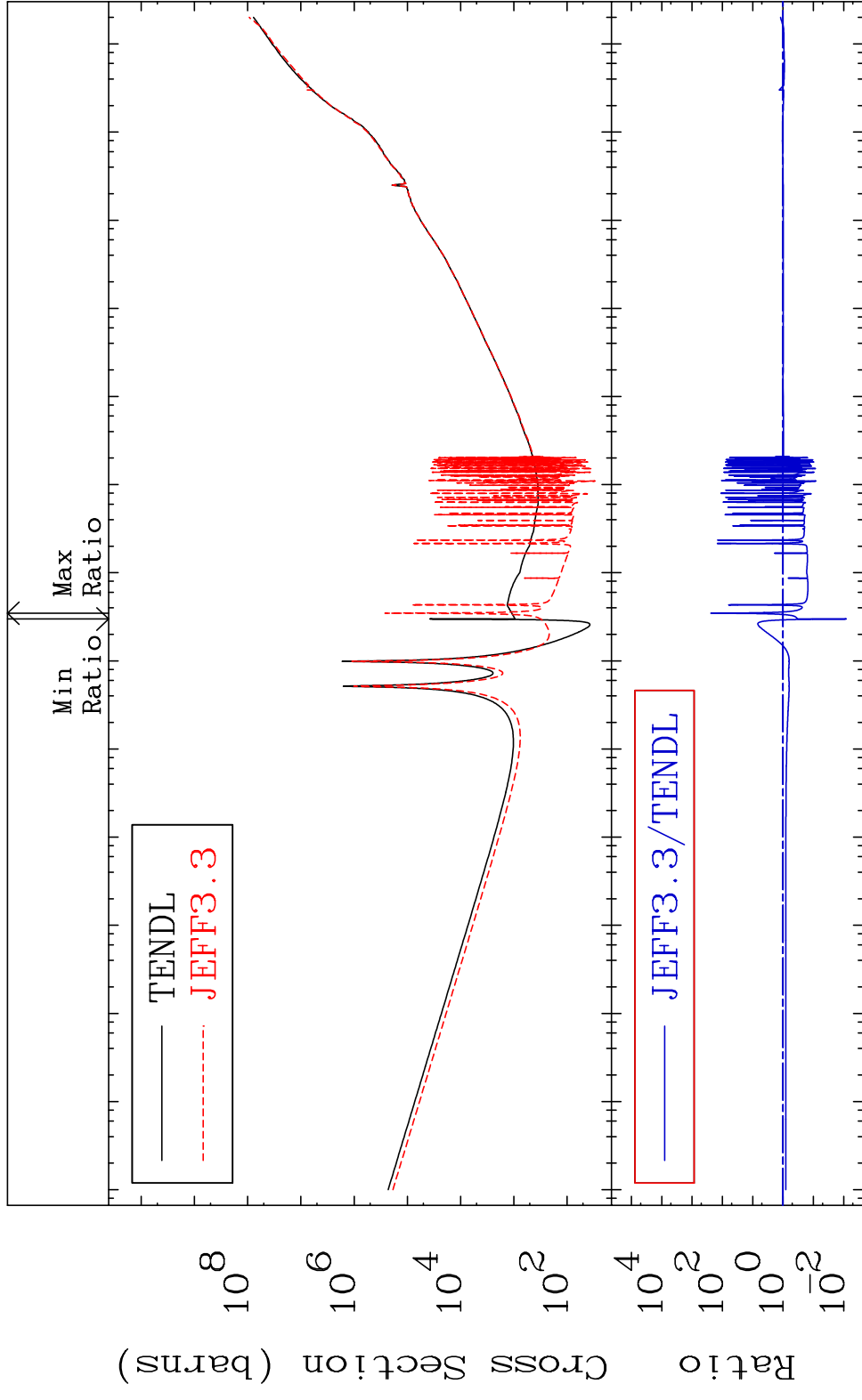
Incident Energy (eV)

54-Xe-124

MAT 5425

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

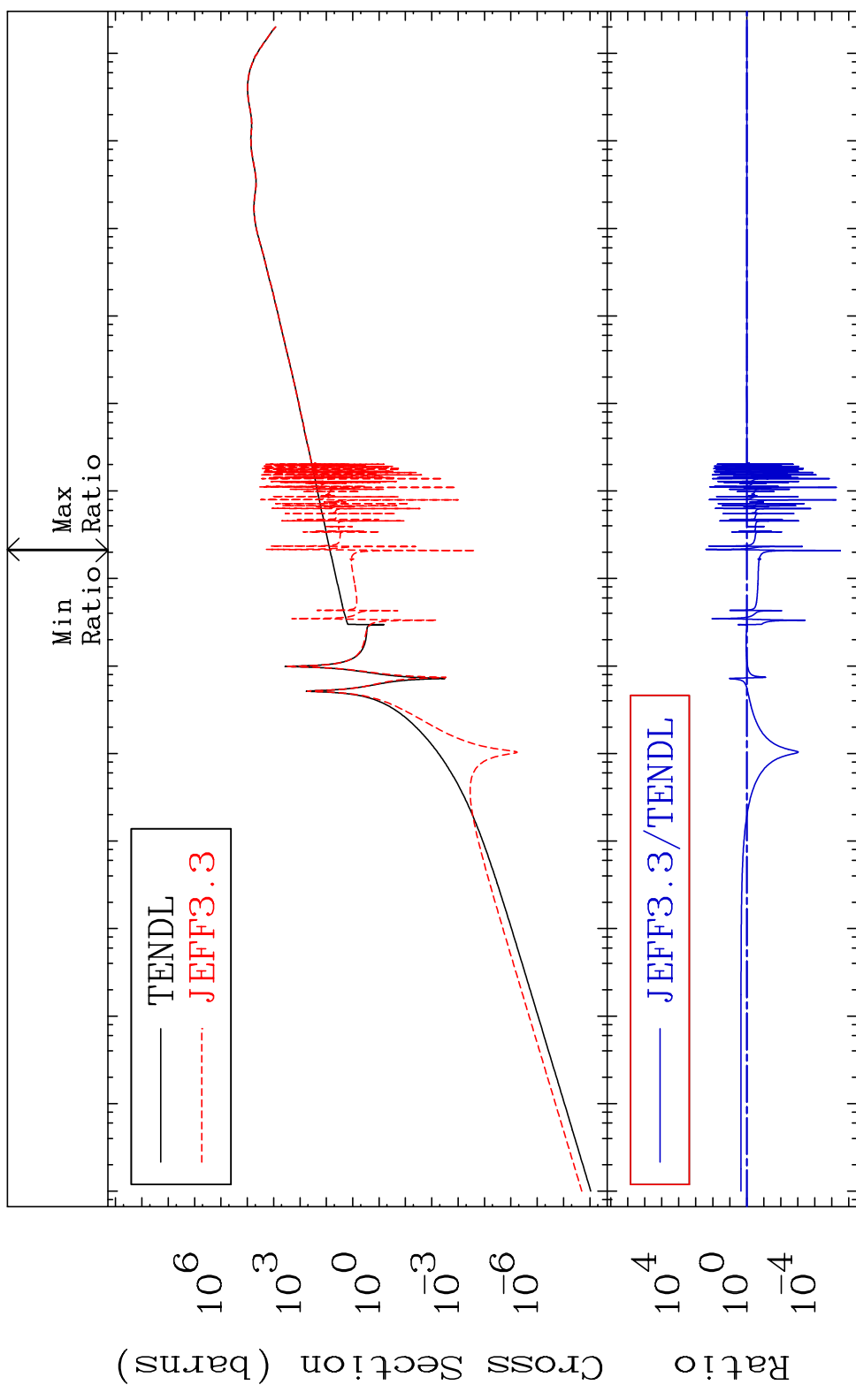
Cross Section -99.18 To 9999. %



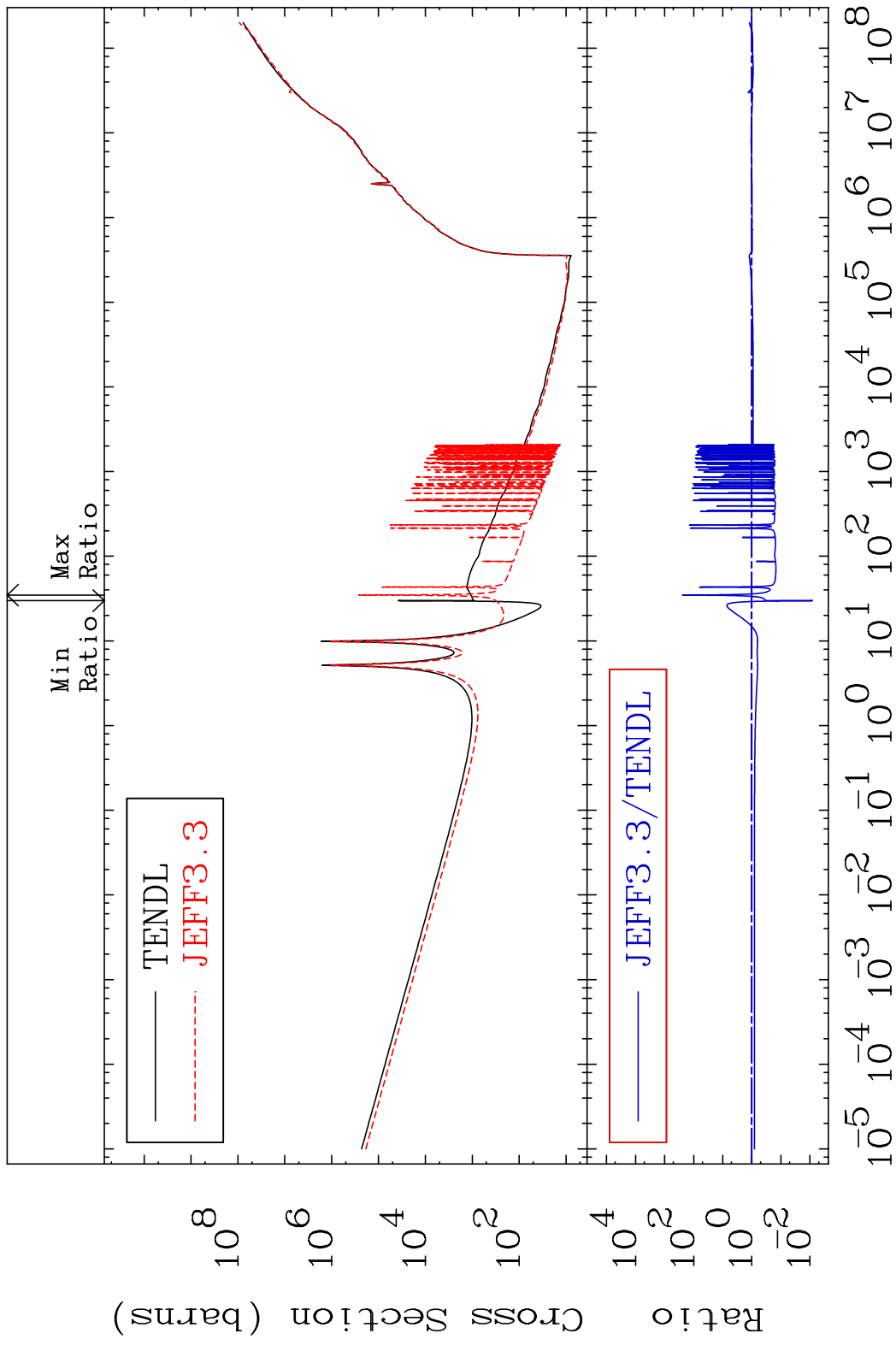
MAT 5425

Kerma elastic  
Cross Section -100.0 To 9999. %

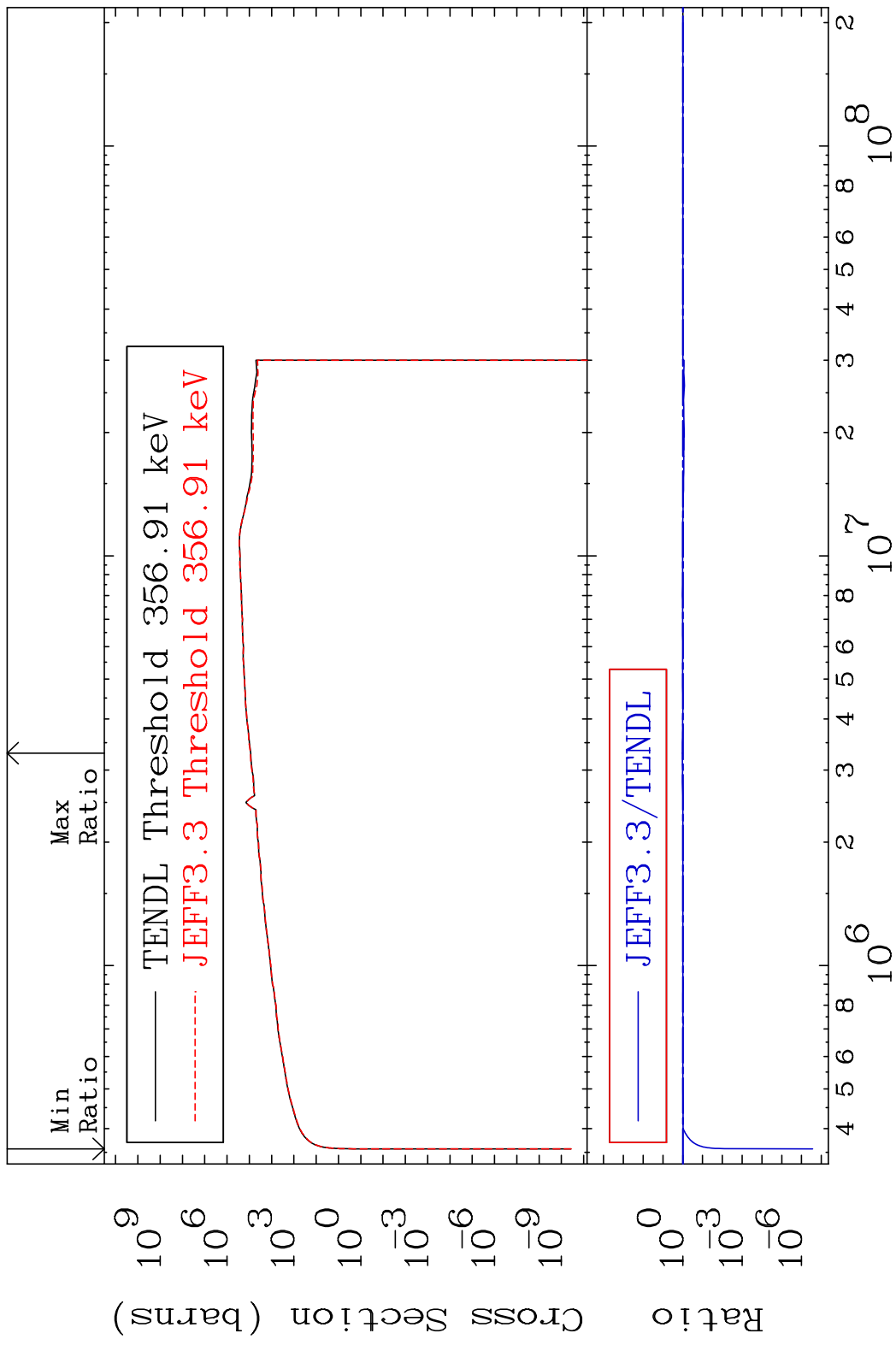
54-Xe-124



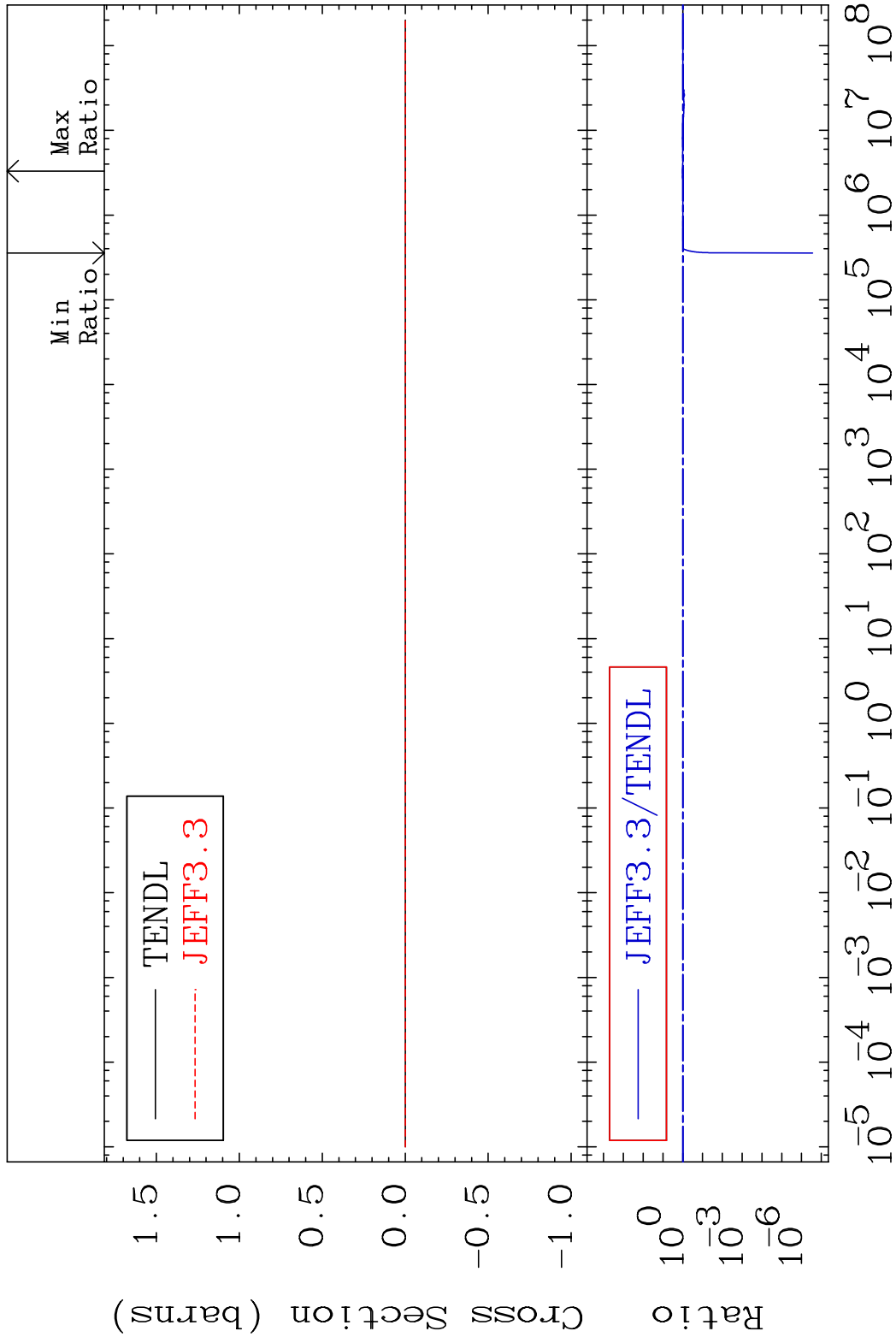
MAT 5425 Kerma non-elastic (all but mt2) 54-Xe-124  
 Cross Section -99.19 To 9999. %



MAT 5425 Kerma inelastic (mt51-91) 54-Xe-124  
 Cross Section -100.0 To 4.541 %



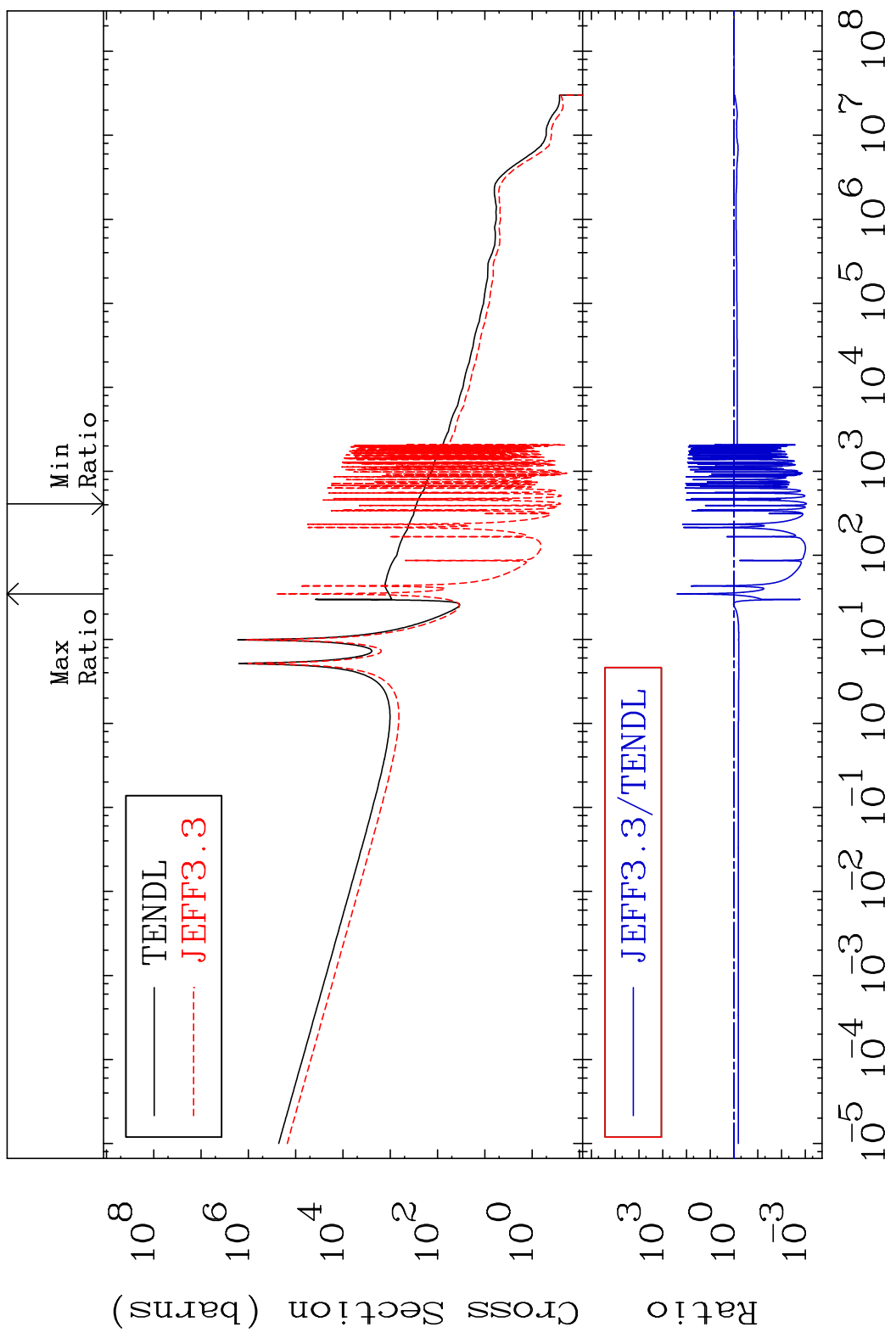
MAT 5425 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-124  
 Cross Section -100.0 To 4.541 %



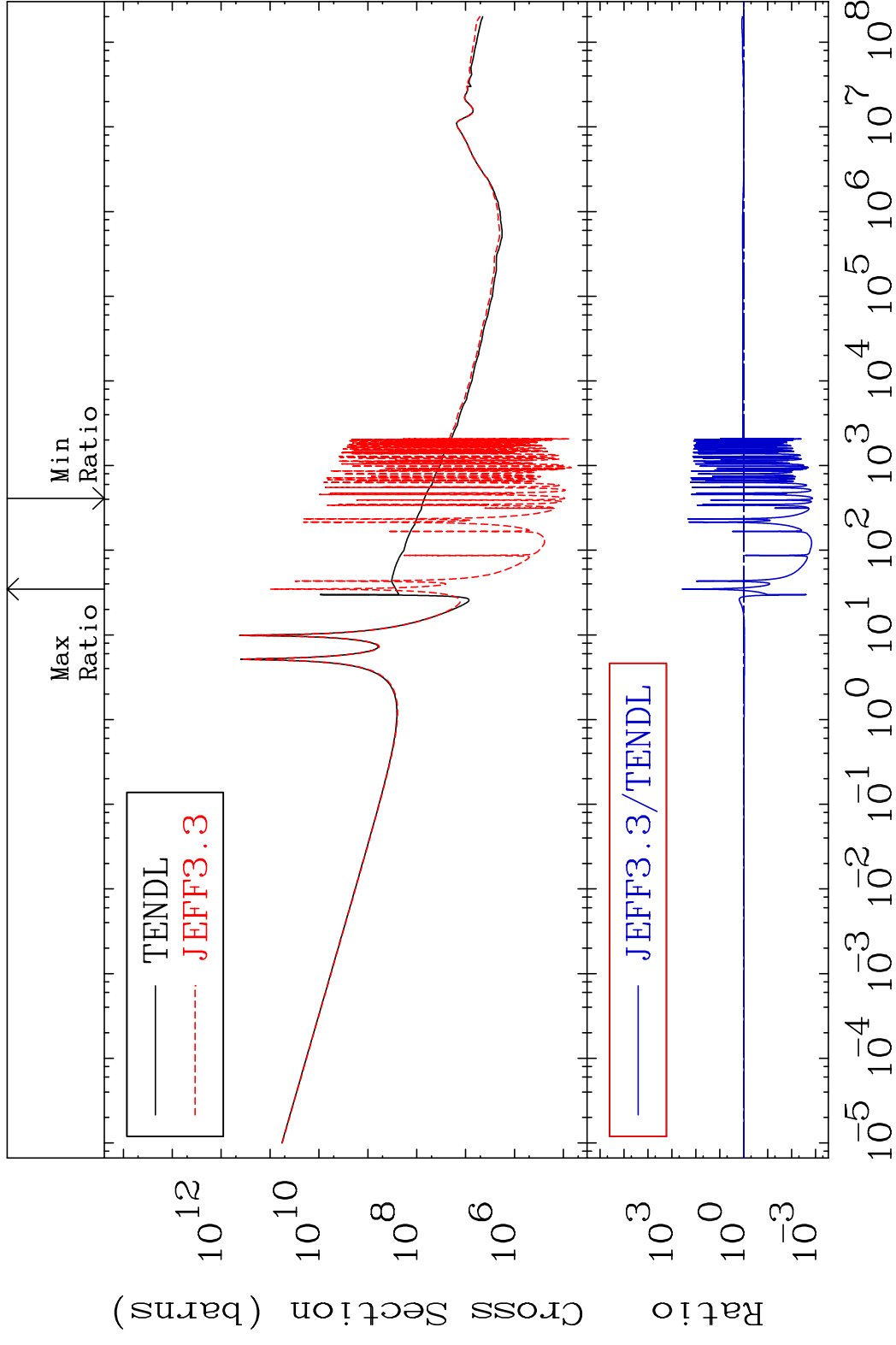


MAT 5425

Kerma capture (mt102) 54-Xe-124  
Cross Section -99.91 To 9999. %

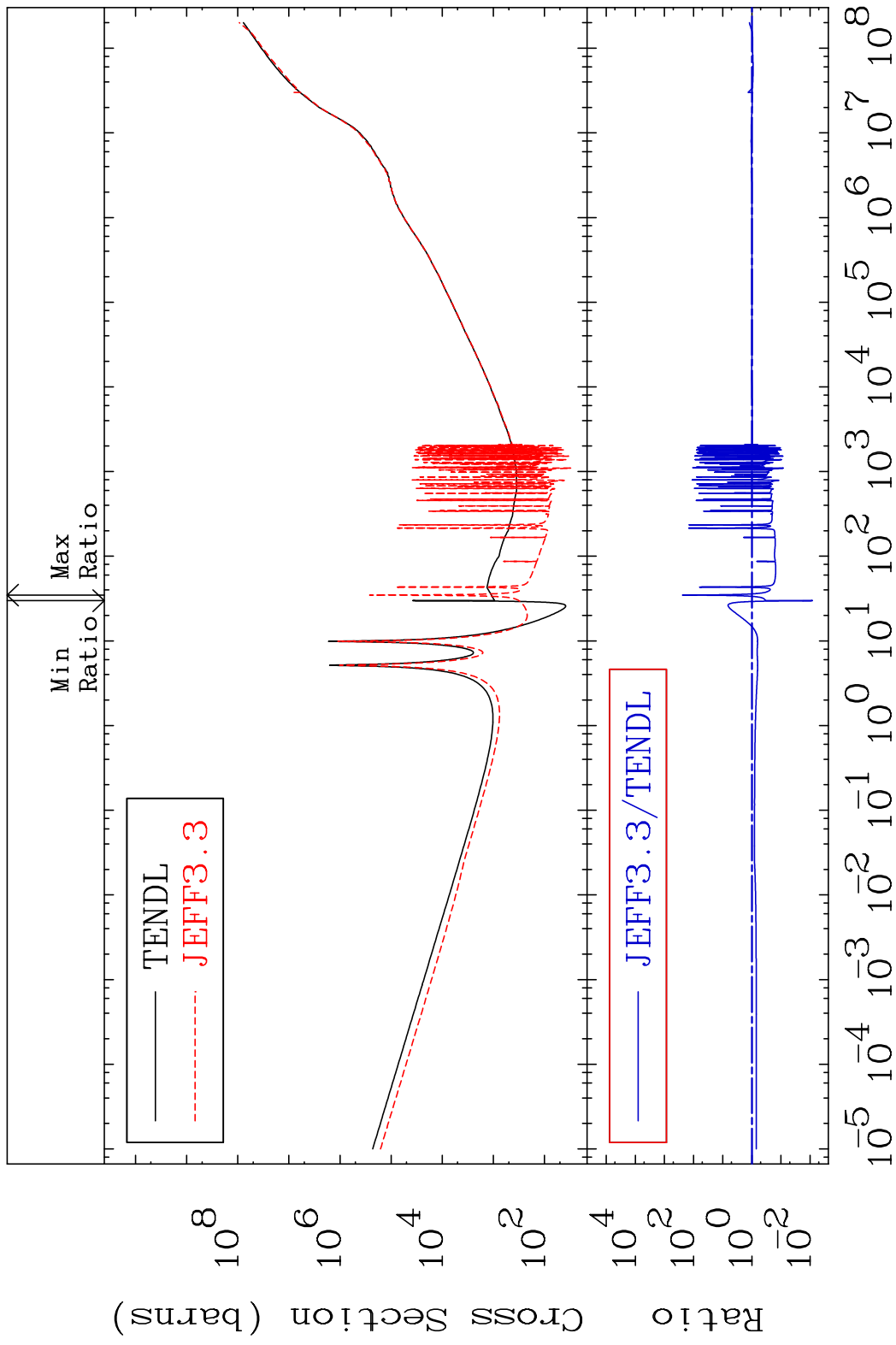


MAT 5425 Total photon (eV-barns) 54-Xe-124  
 Cross Section -99.87 To 9999. %



73 Incident Energy (eV) 54-Xe-124

MAT 5425 Total kinematic kerma (high limit) 54-Xe-124  
 Cross Section -99.18 To 9999. %

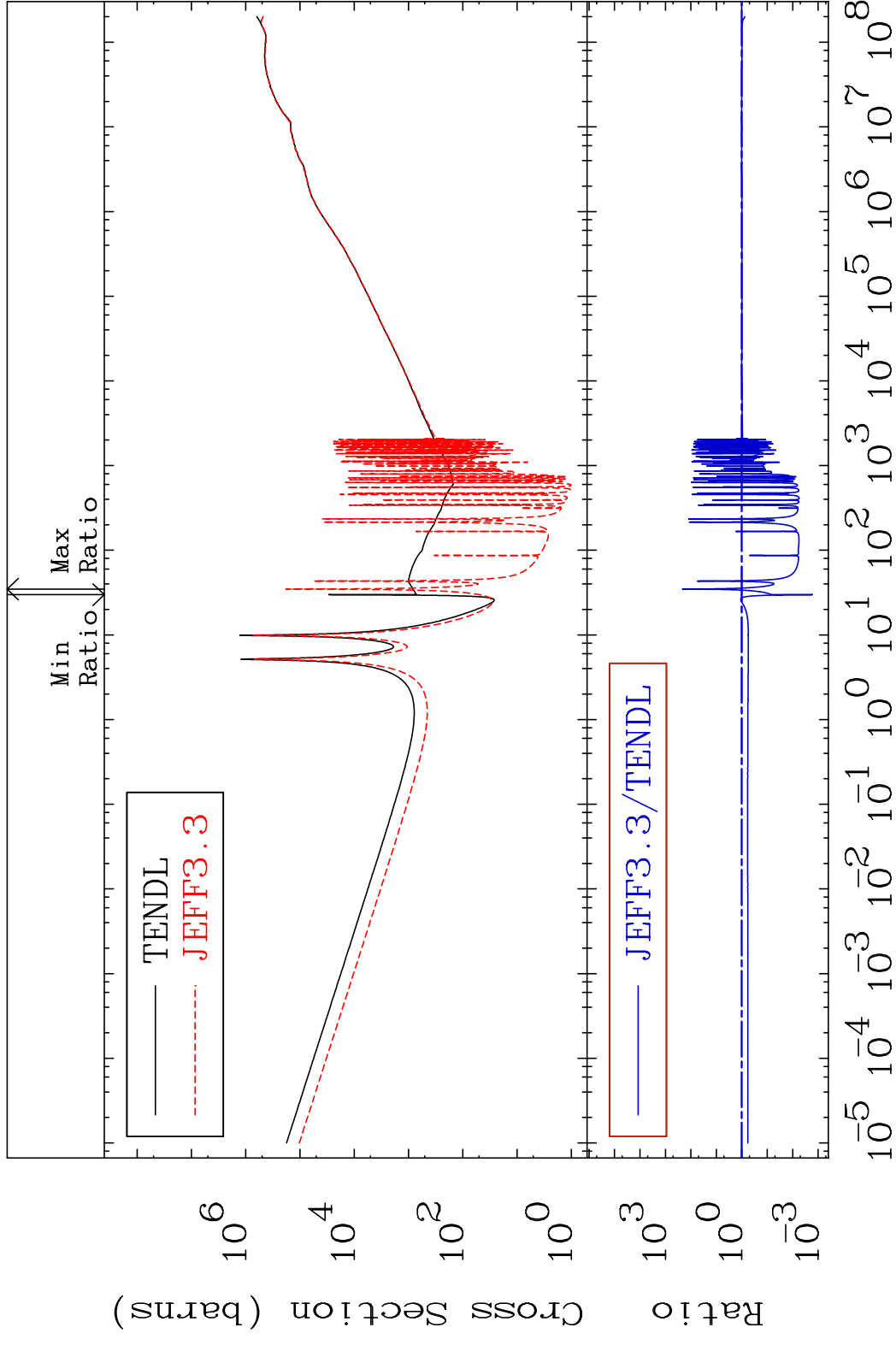


MAT 5425

Dpa total (eV-barns)

54-Xe-124

Cross Section -99.83 To 9999. %



75

Incident Energy (eV)

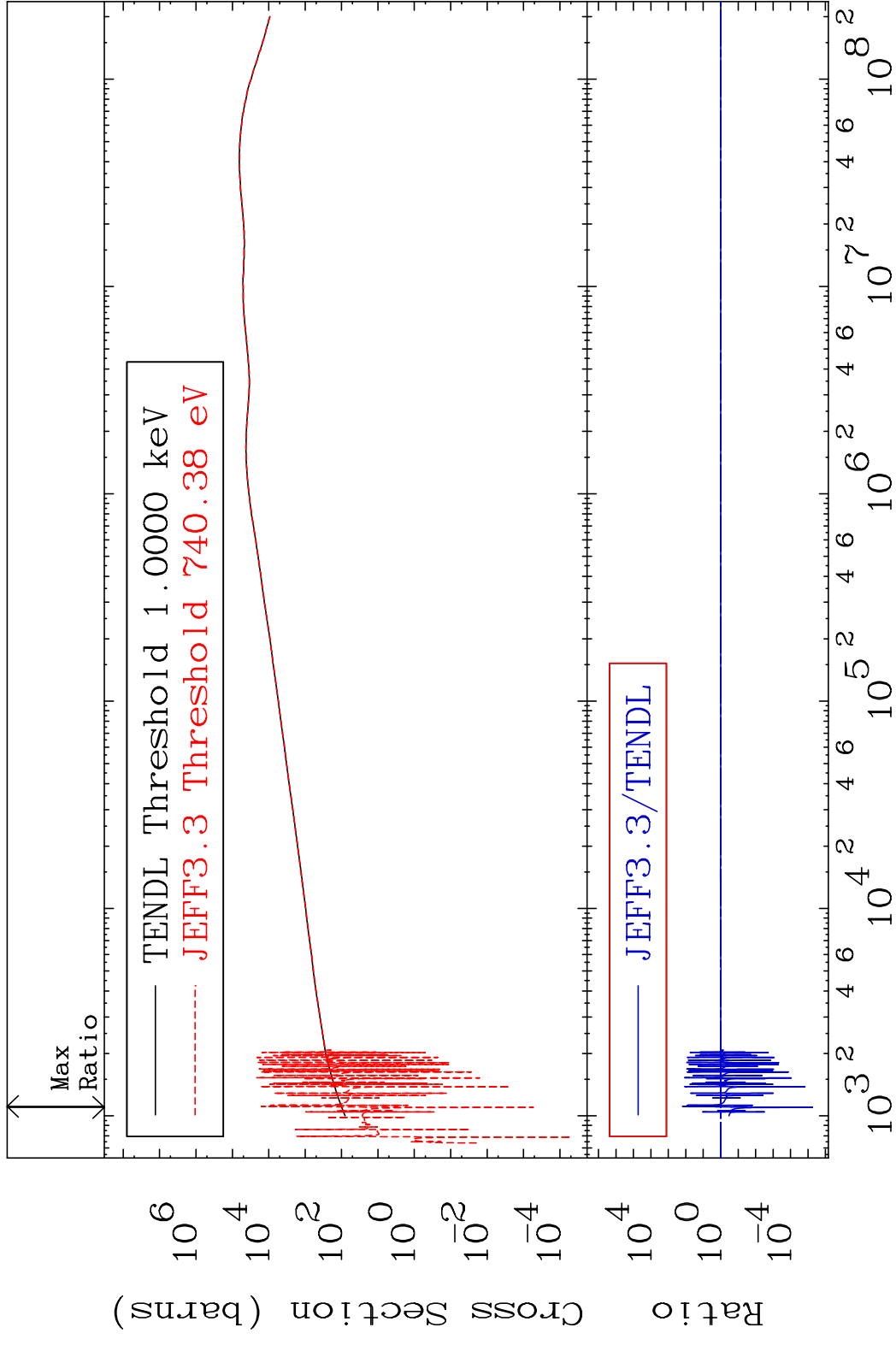
54-Xe-124

MAT 5425

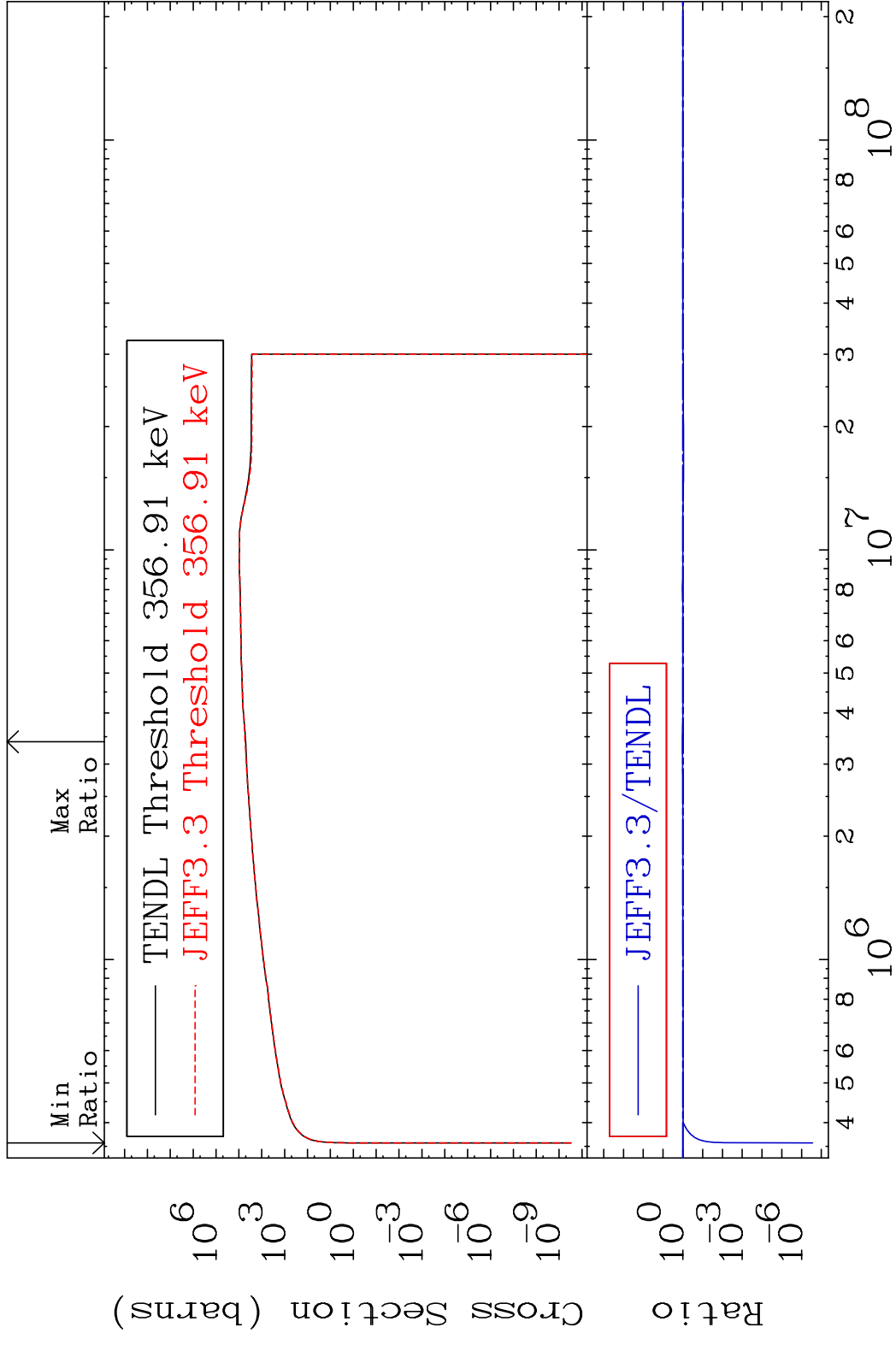
Dpa elastic (mt2)

54-Xe-124

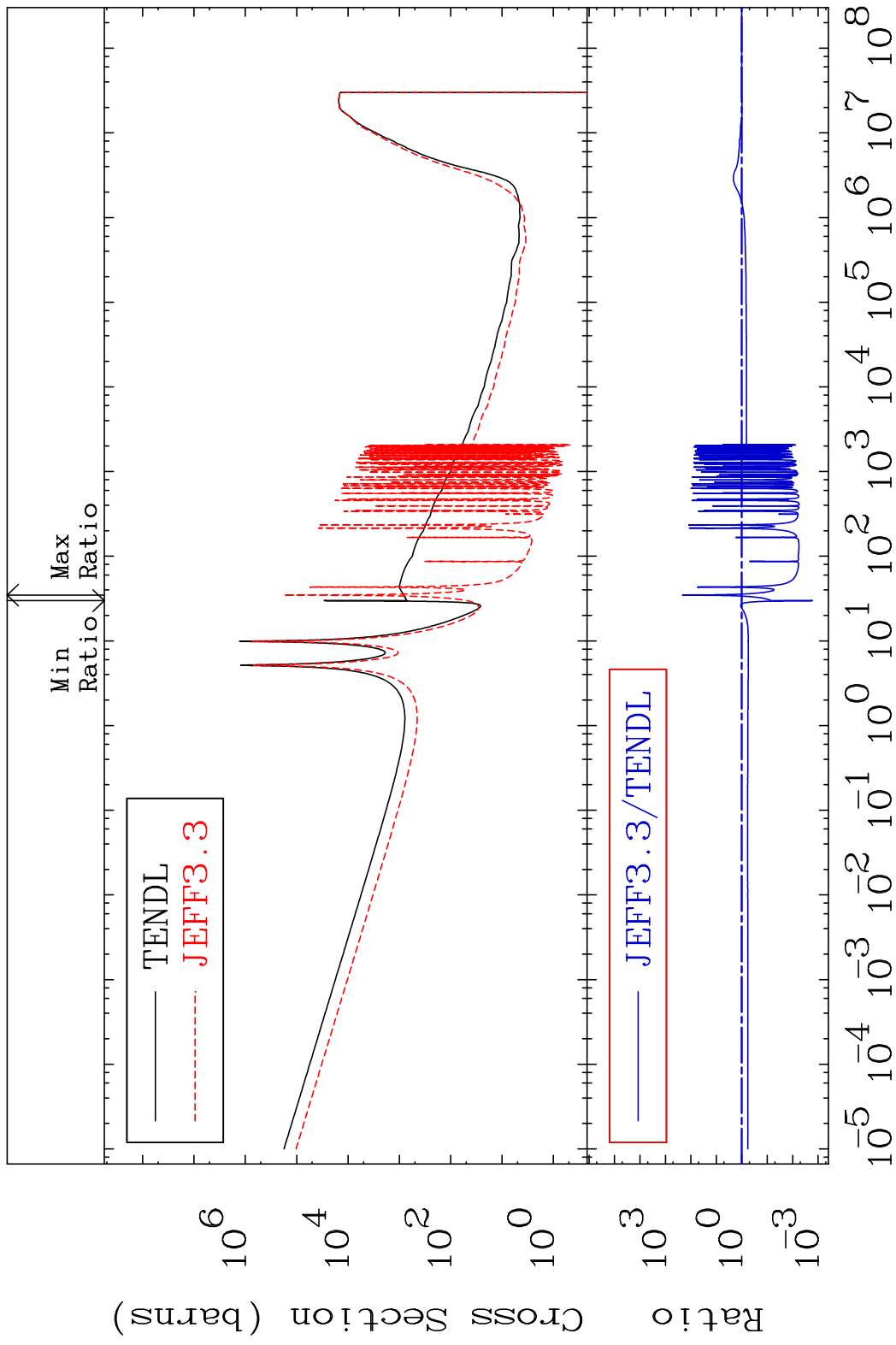
Cross Section -100.0 To 9999. %



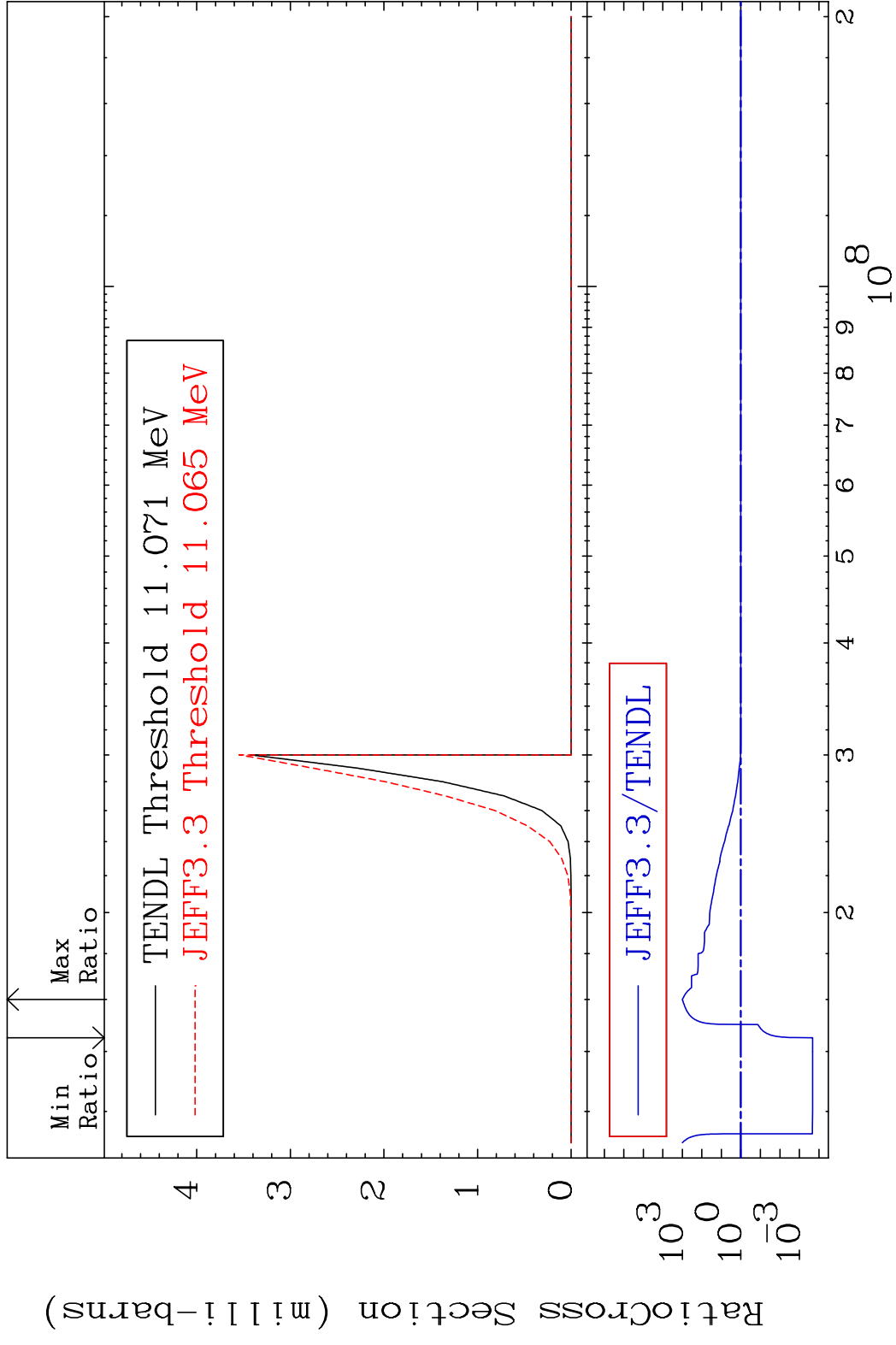
MAT 5425 Dpa inelastic (mt51-91) 54-Xe-124  
 Cross Section -100.0 To 5.680 %



MAT 5425 Dpa disappearance (mt102 -120) 54-Xe-124  
 Cross Section -99.83 To 9999. %

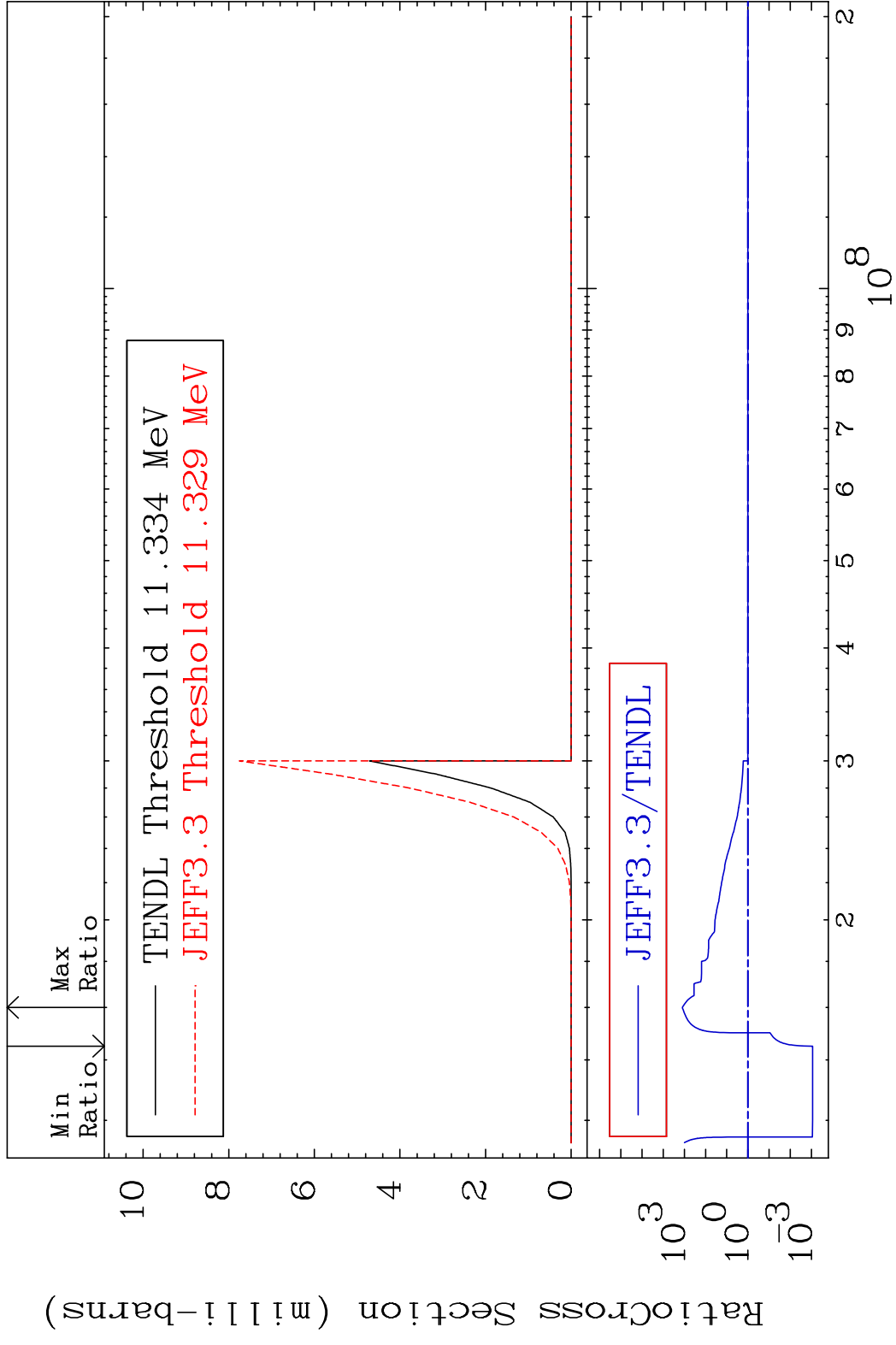


MAT 5425 (n,2n)  $\alpha$ :52-Te-119g 54-Xe-124  
 Radionuclide Production Cross Section 98.981 dth 9999. %

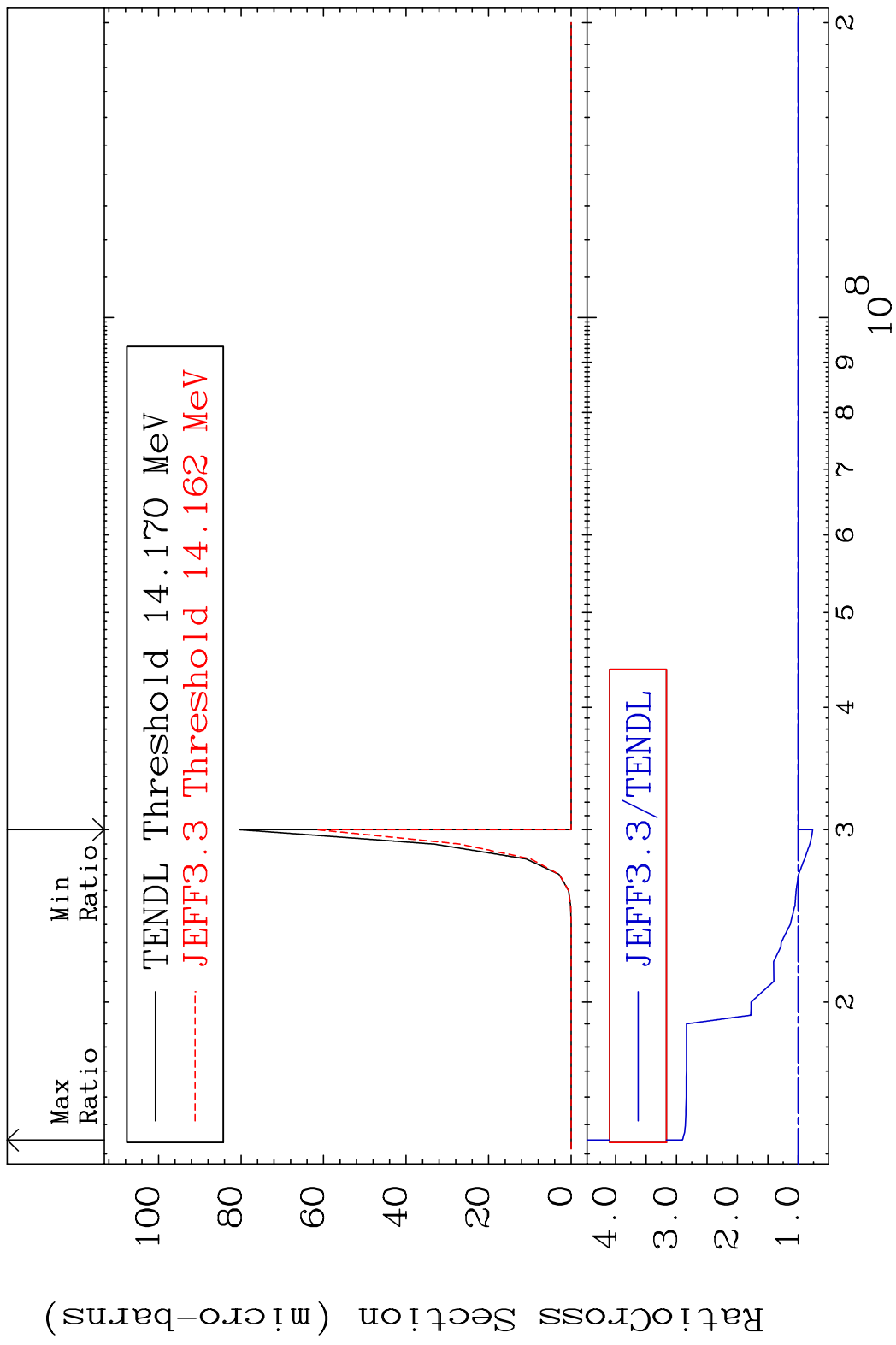




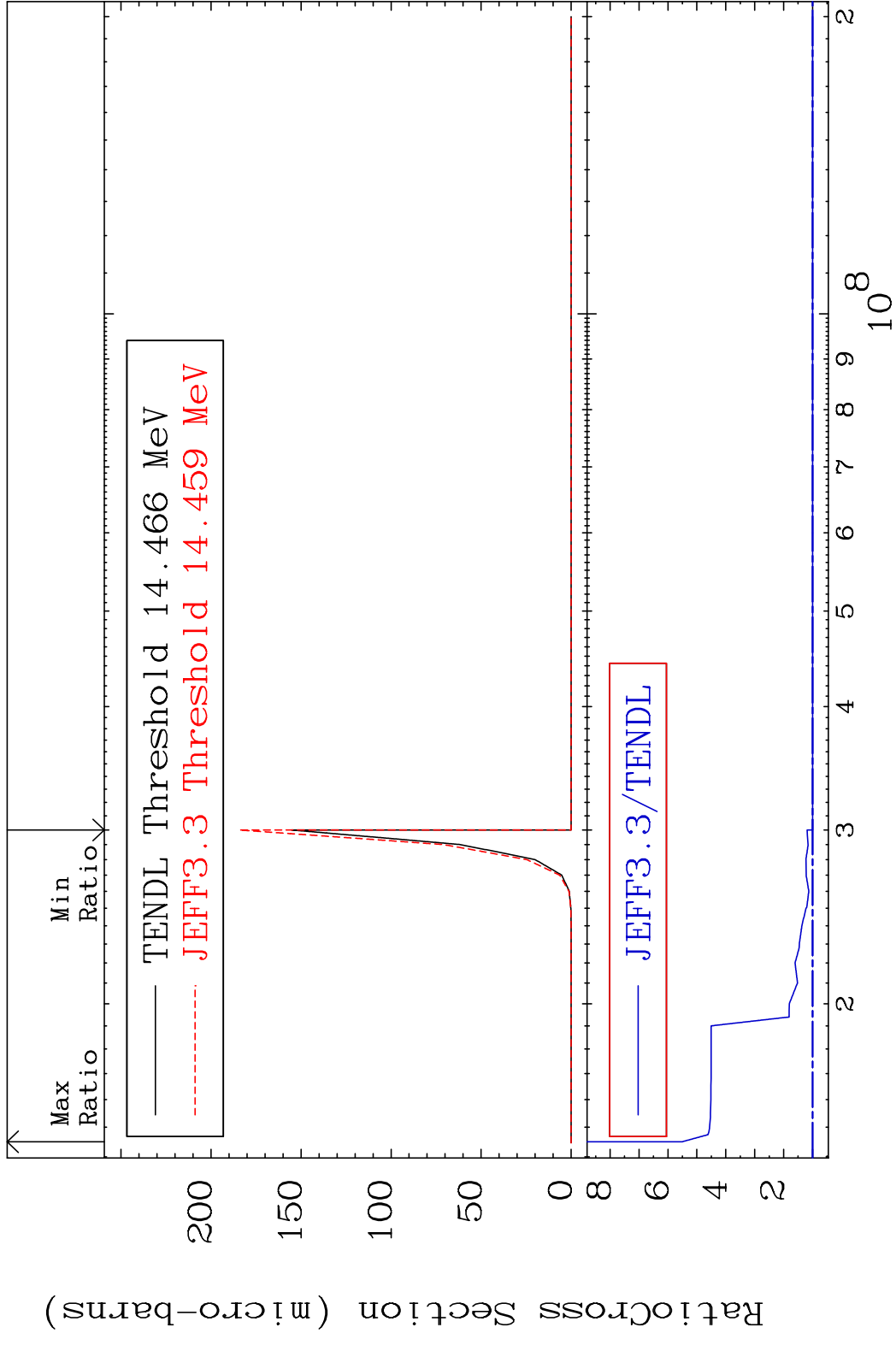
MAT 5425 (n,2n)  $\alpha$ :52-Te-119m2 54-Xe-124  
 Radionuclide Production Cross Section 99e01d10 9999. %



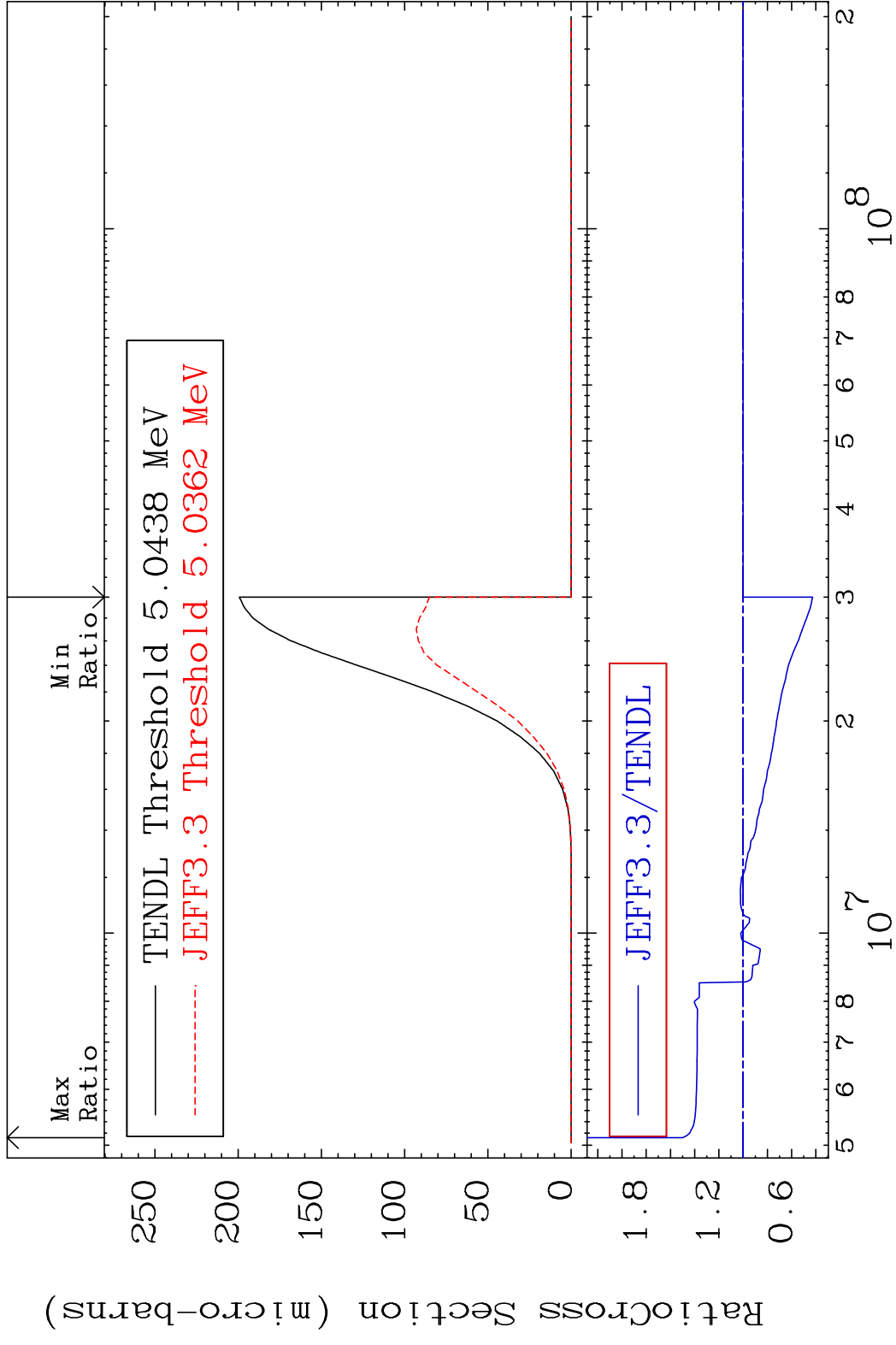
MAT 5425 (n, n') He-3:52-Te-121g 54-Xe-124  
 Radionuclide Production Cross Section 190.4 %



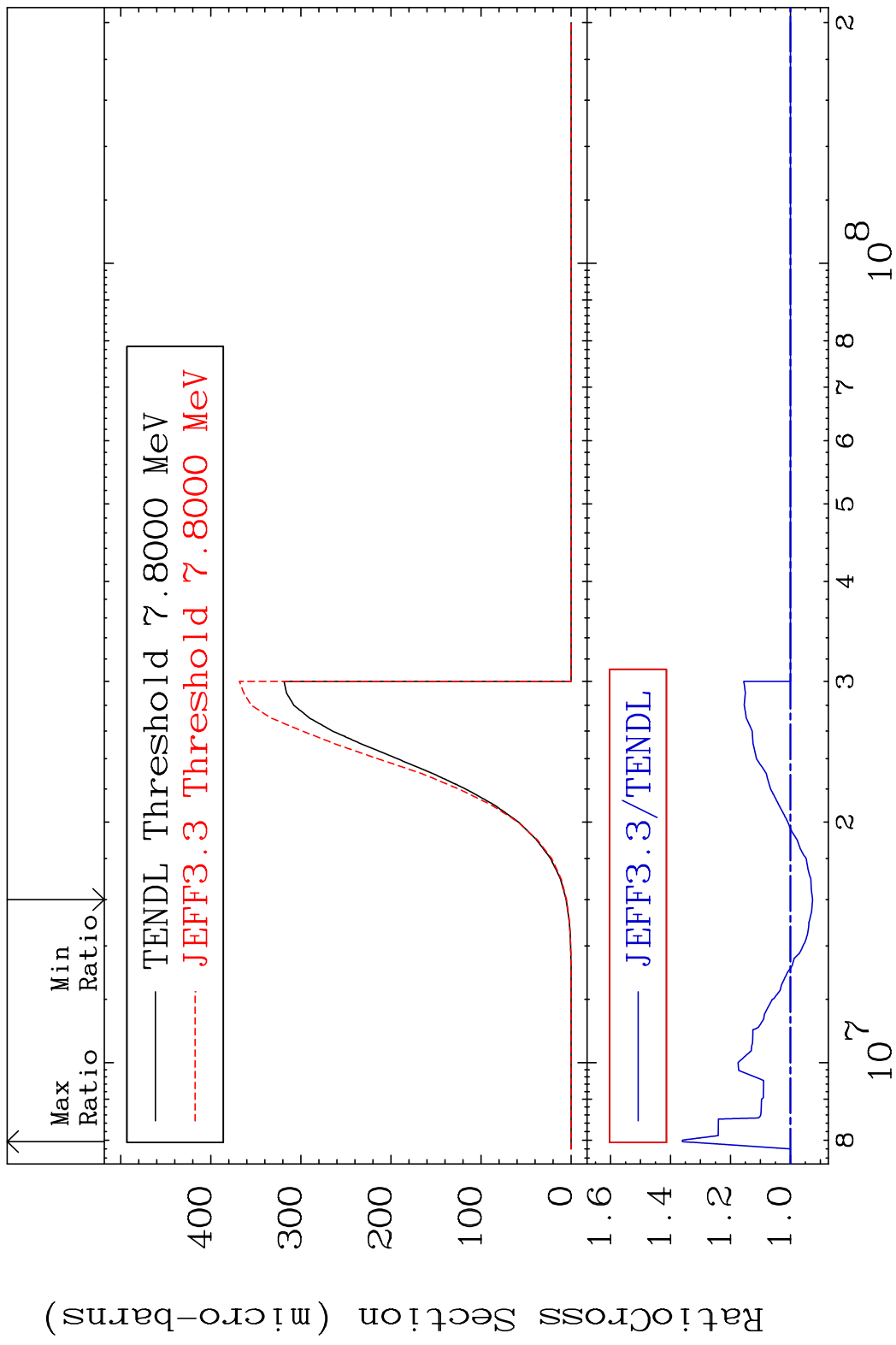
MAT 5425 (n, n') He-3:52-Te-121m2 54-Xe-124  
 Radionuclide Production Cross Section 450.1 %



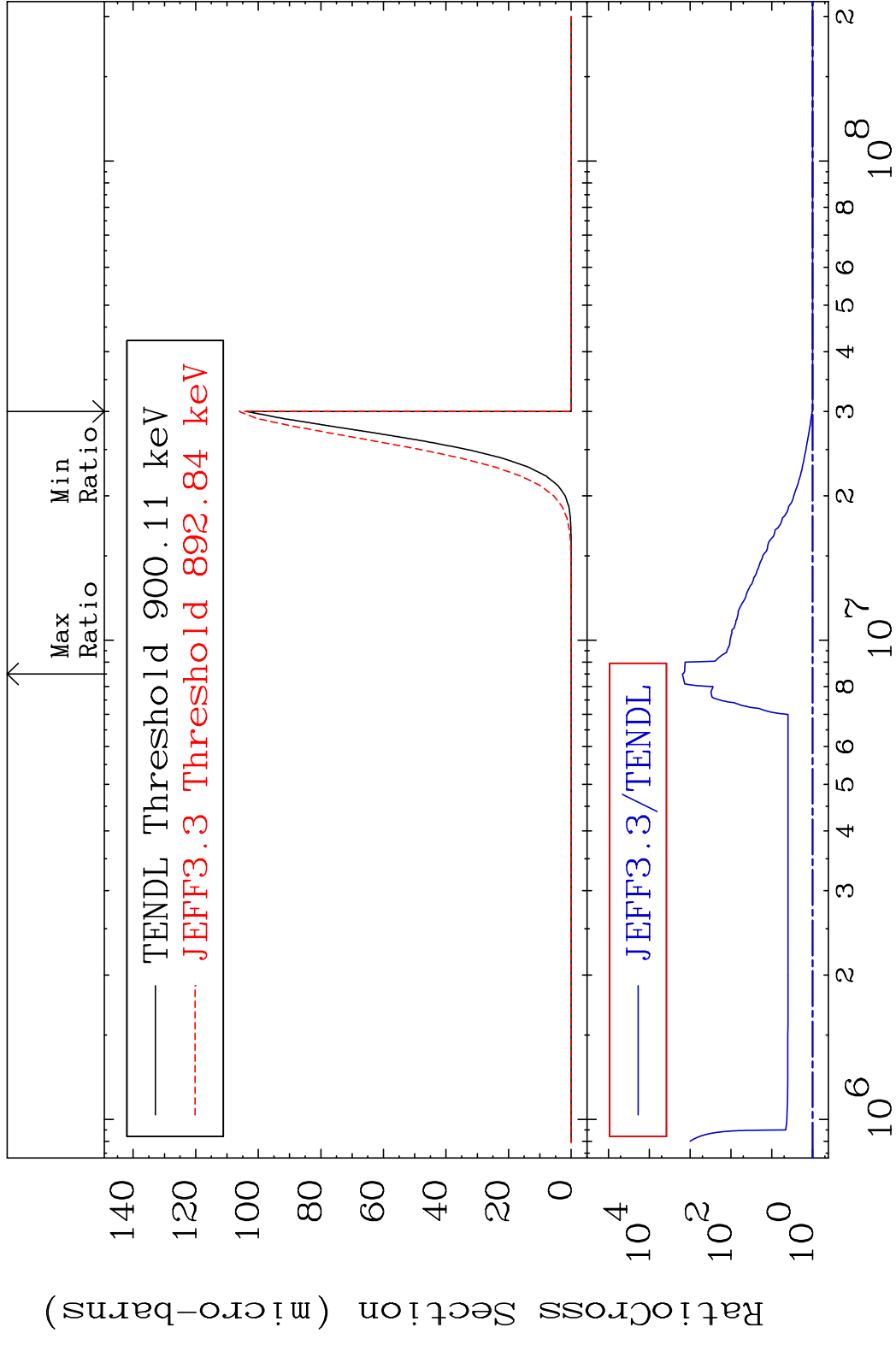
MAT 5425 (n,2p):52-Te-123g 54-Xe-124  
 Radionuclide Production Cross Section 542610 50.16 %



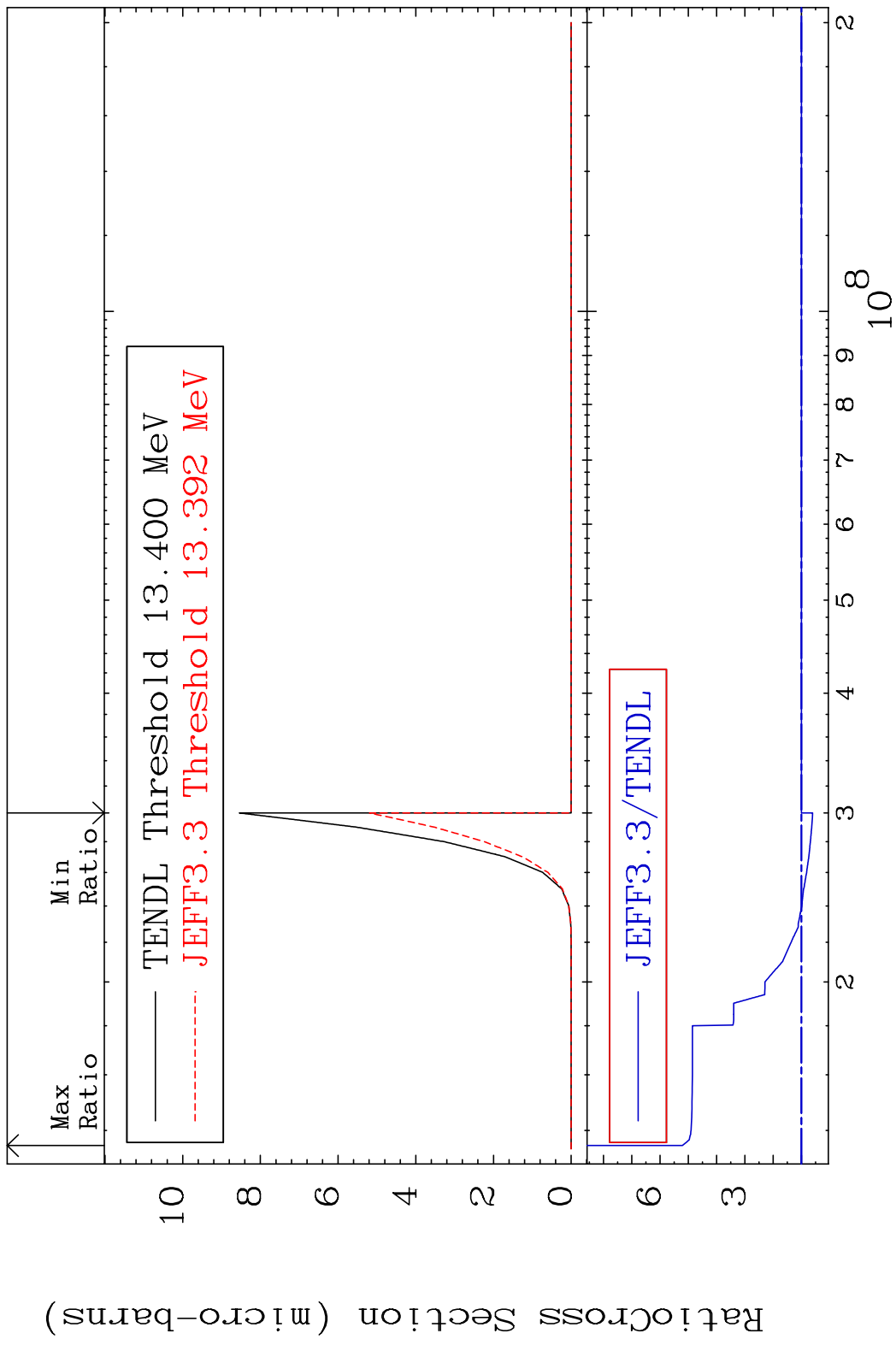
MAT 5425 (n,2p):52-Te-123m2 54-Xe-124  
 Radionuclide Production Cross Section 36.03 %



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 420.9 %



MAT 5425 (n,p) t:52-Te-121m2 54-Xe-124  
 Radionuclide Production Cross Section 476.6 %

