

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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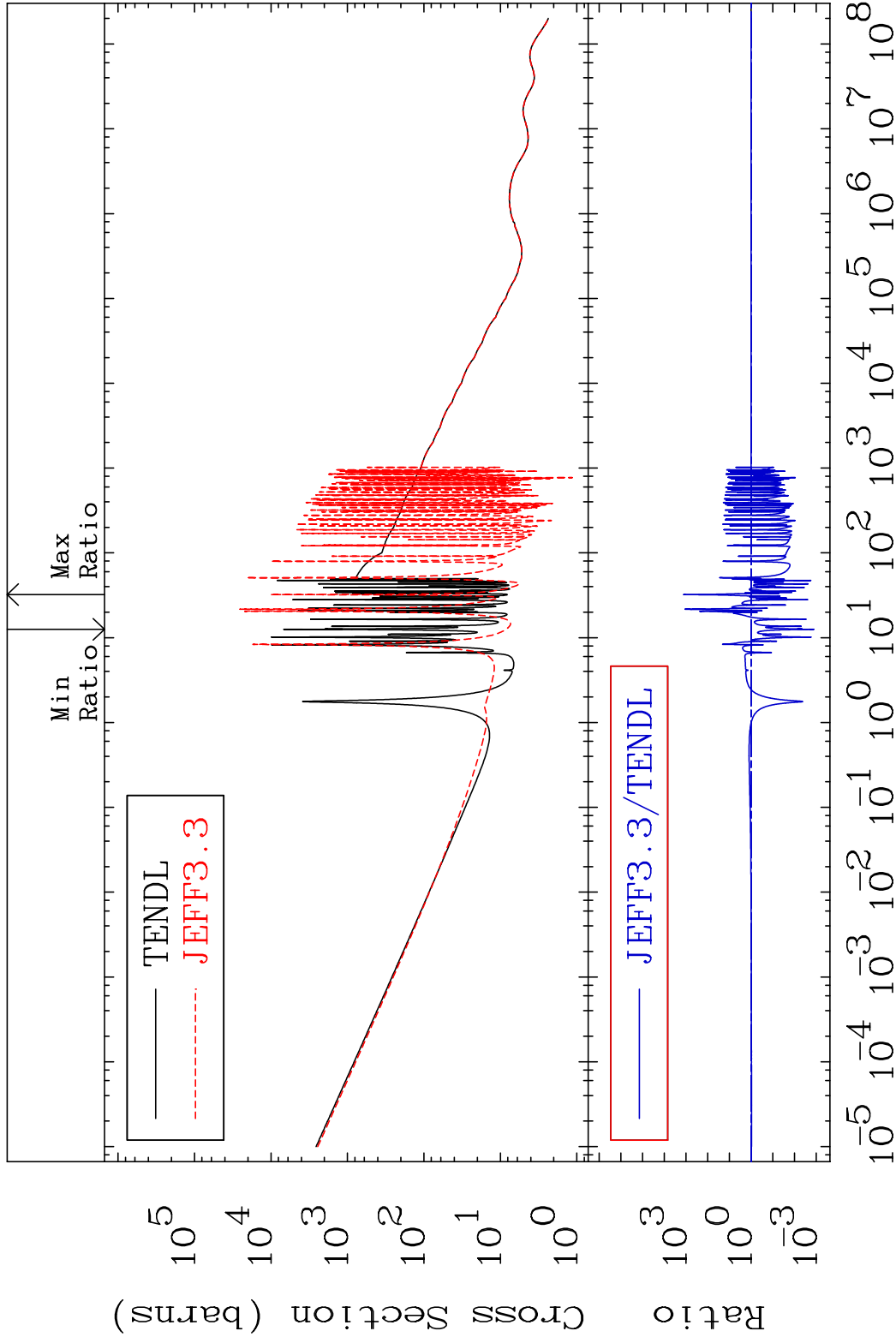
Press Mouse Button to Start

MAT 6416

Total

64-Gd-149

Cross Section -99.88 To 9999. %



1

Incident Energy (eV)

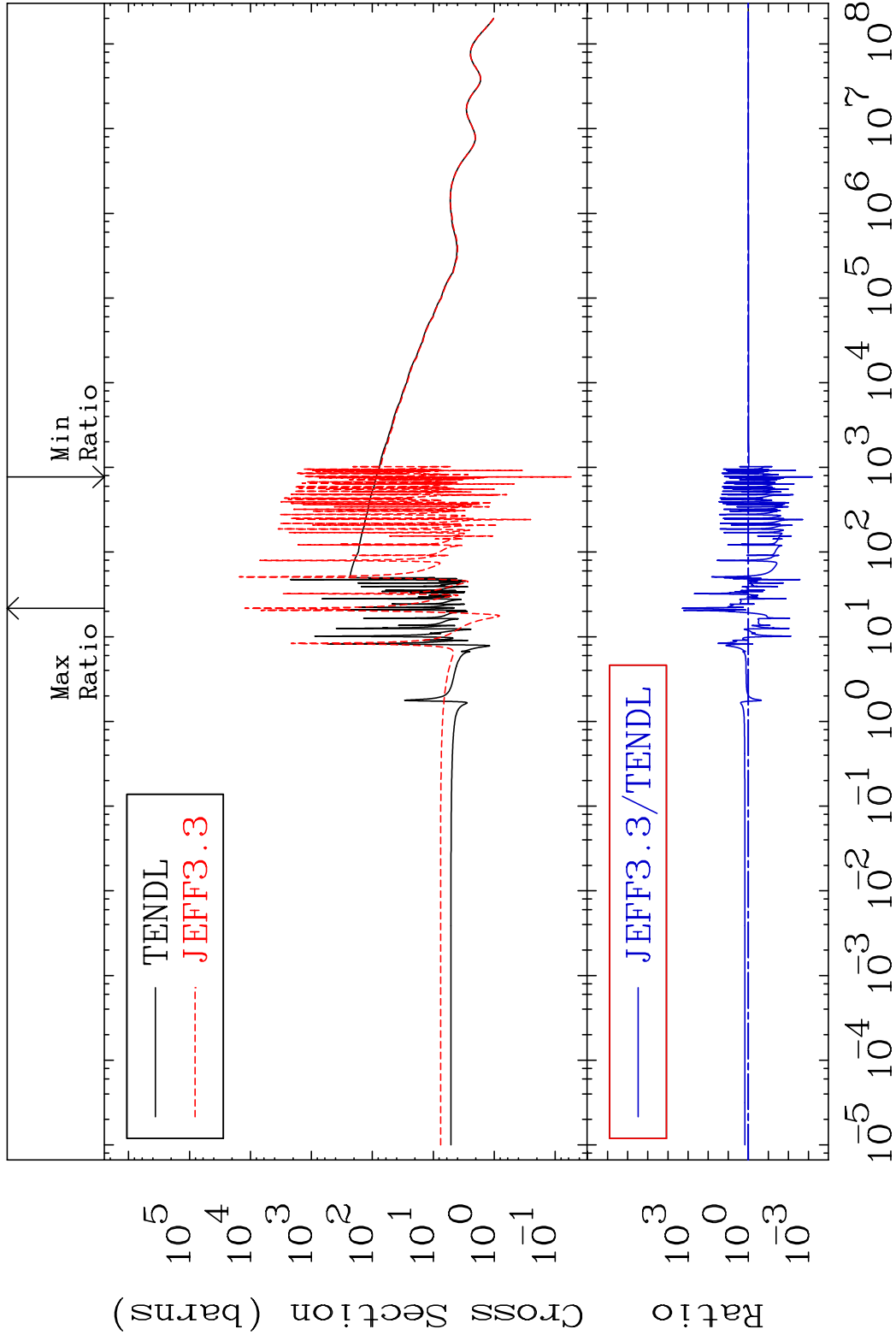
64-Gd-149

MAT 6416

Elastic

64-Gd-149

Cross Section -99.94 To 9999. %

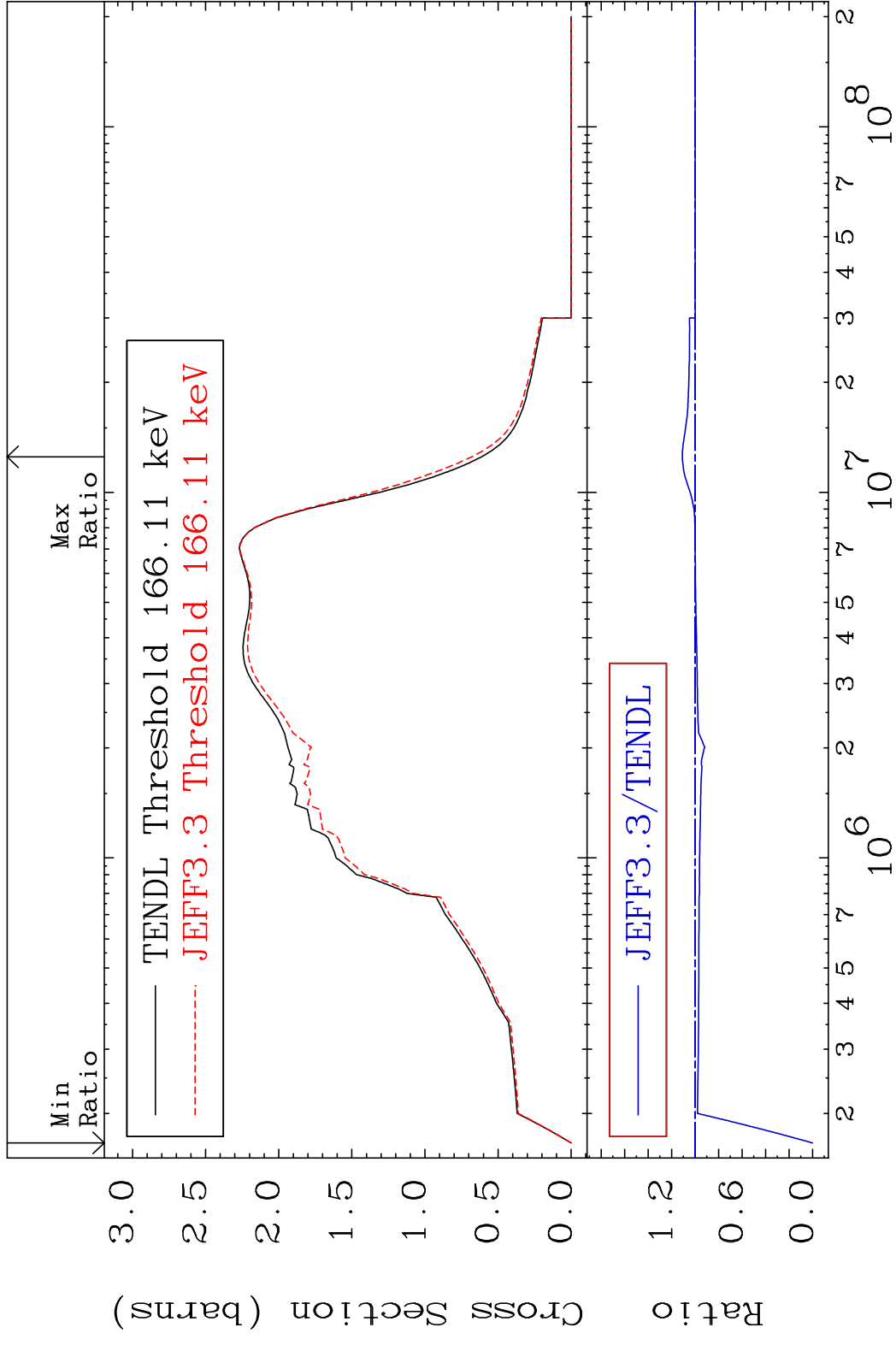


2

Incident Energy (eV)

64-Gd-149

MAT 6416 Inelastic 64-Gd-149  
 Cross Section -100.0 To 10.83 %

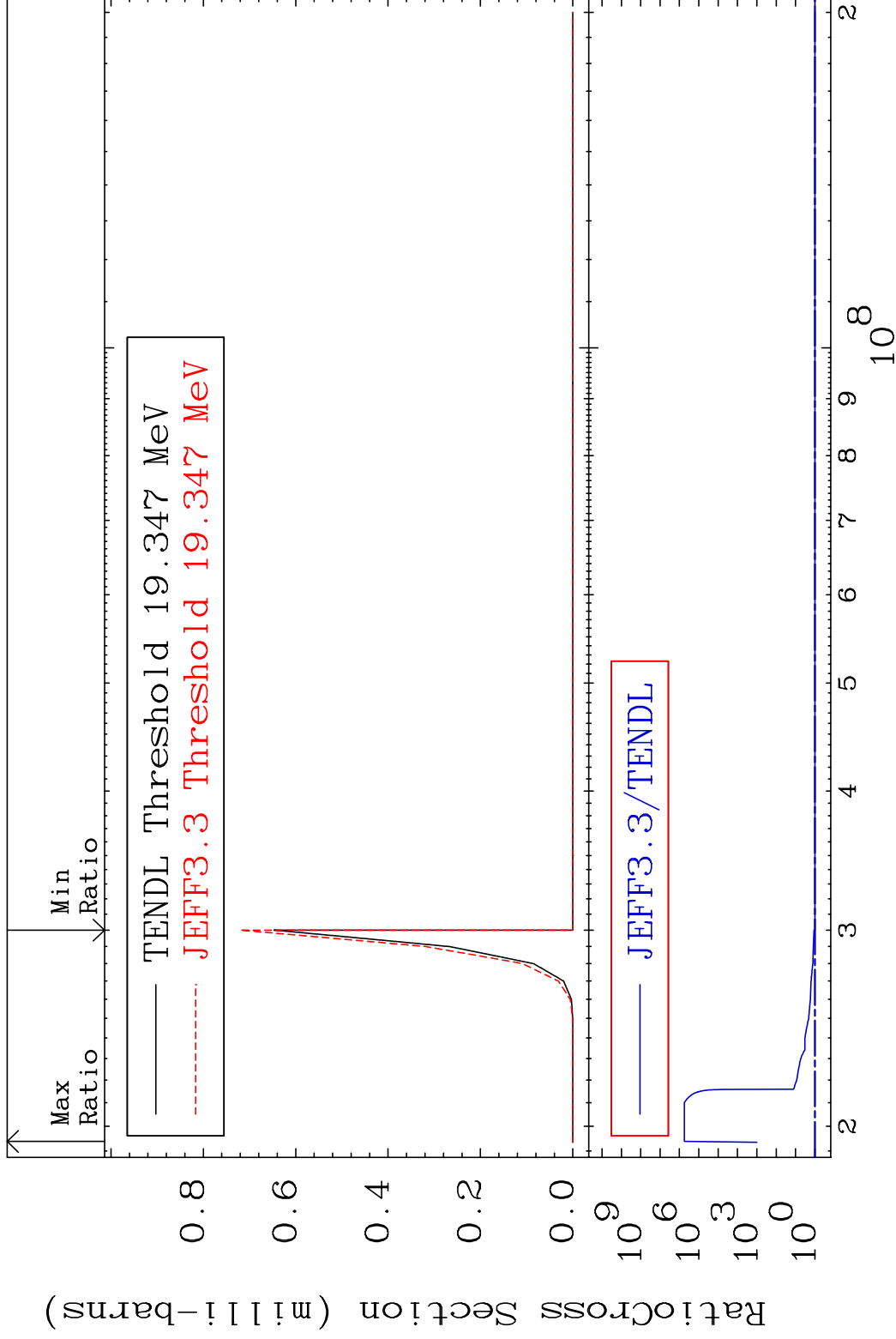


MAT 6416

(n,2n) d

64-Gd-149

Cross Section 0.000 To 9999. %



4

Incident Energy (eV)

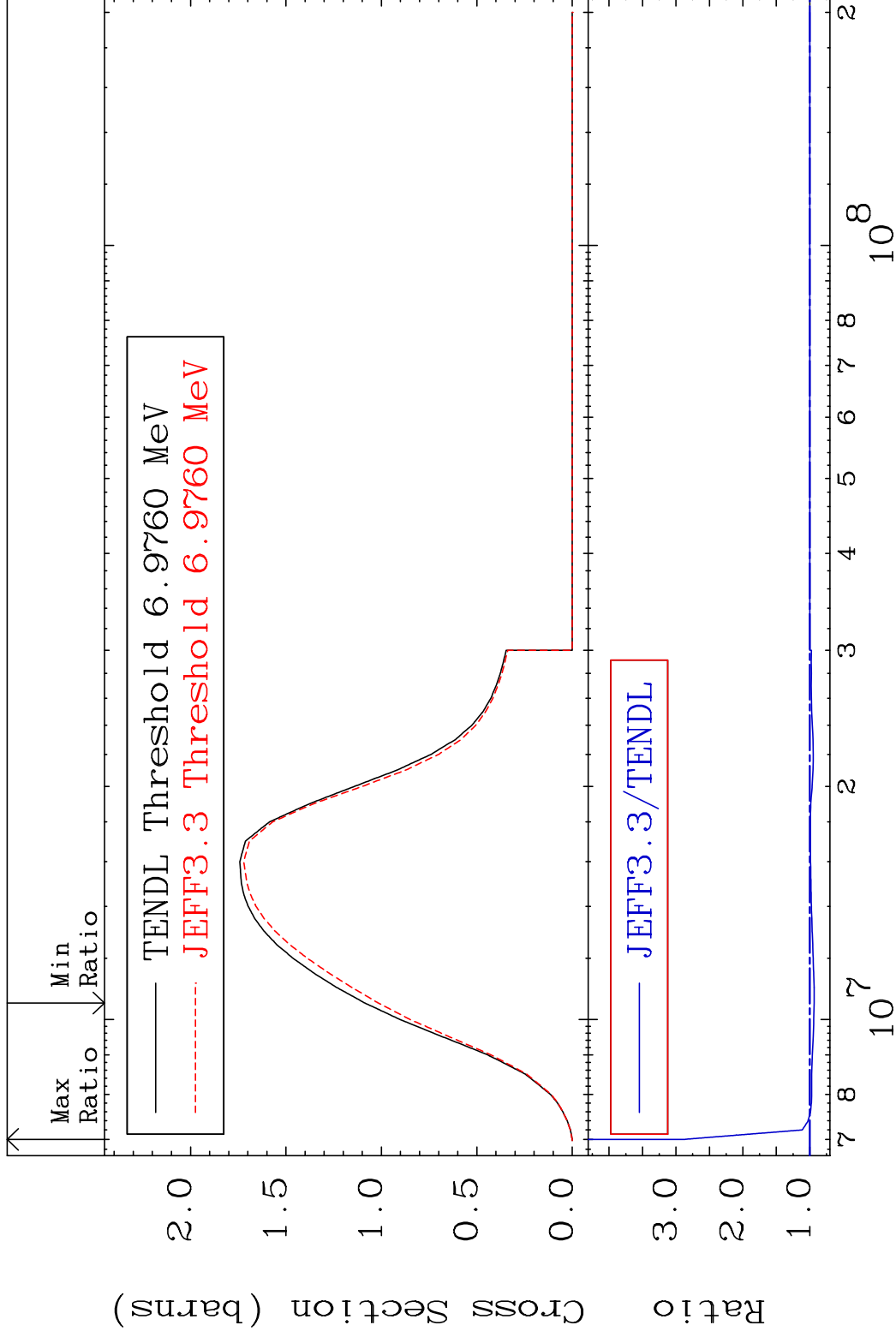
64-Gd-149

MAT 6416

(n,2n)

64-Gd-149

Cross Section -6.473 To 188.5 %



5

Incident Energy (eV)

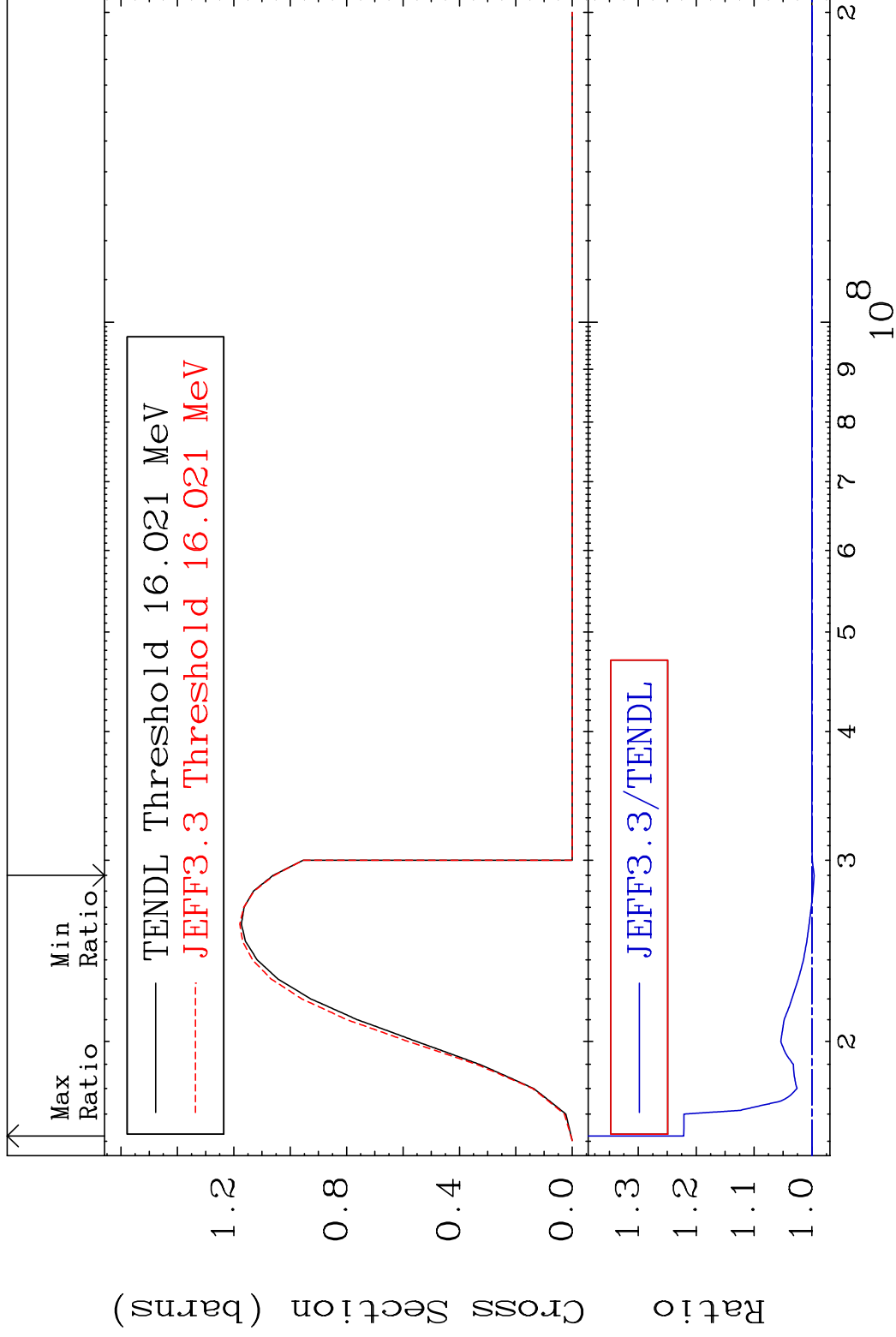
64-Gd-149

MAT 6416

(n,3n)

64-Gd-149

Cross Section -0.379 To 22.16 %



6

Incident Energy (eV)

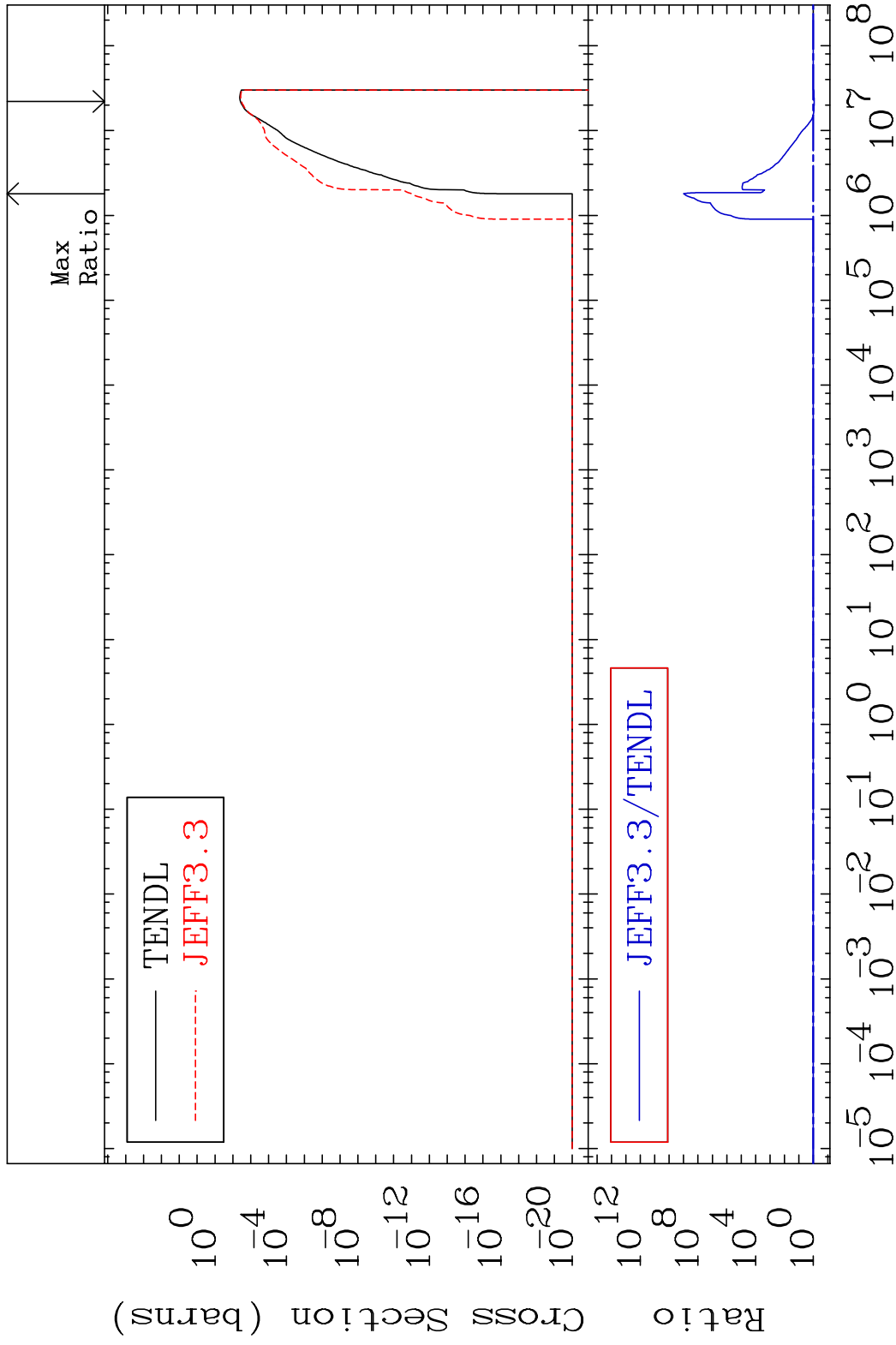
64-Gd-149

MAT 6416

(n, n')  $\alpha$

64-Gd-149

Cross Section -11.49 To 9999. %



7

Incident Energy (eV)

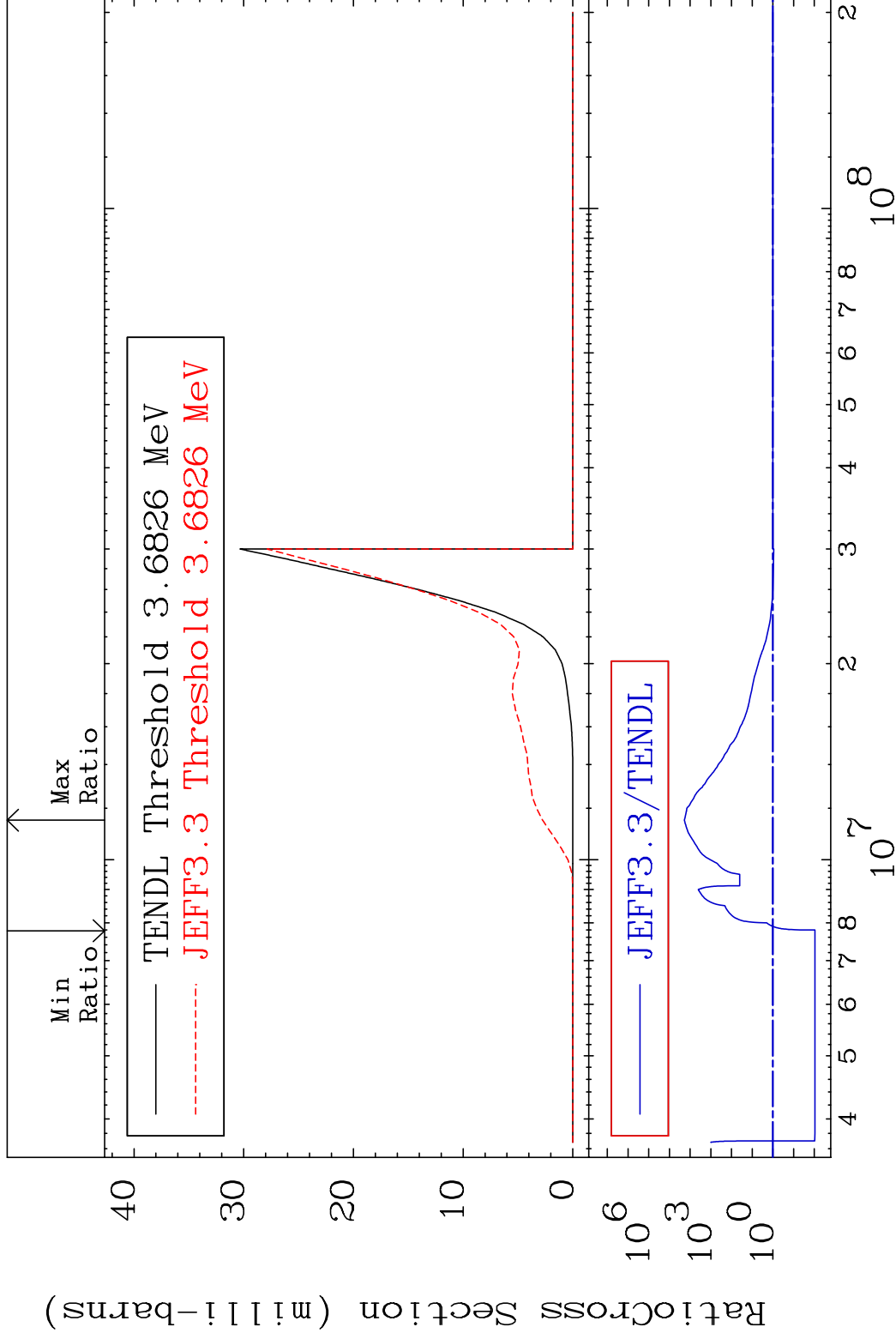
64-Gd-149

MAT 6416

(n,2n)  $\alpha$

64-Gd-149

Cross Section -99.06 To 9999. %

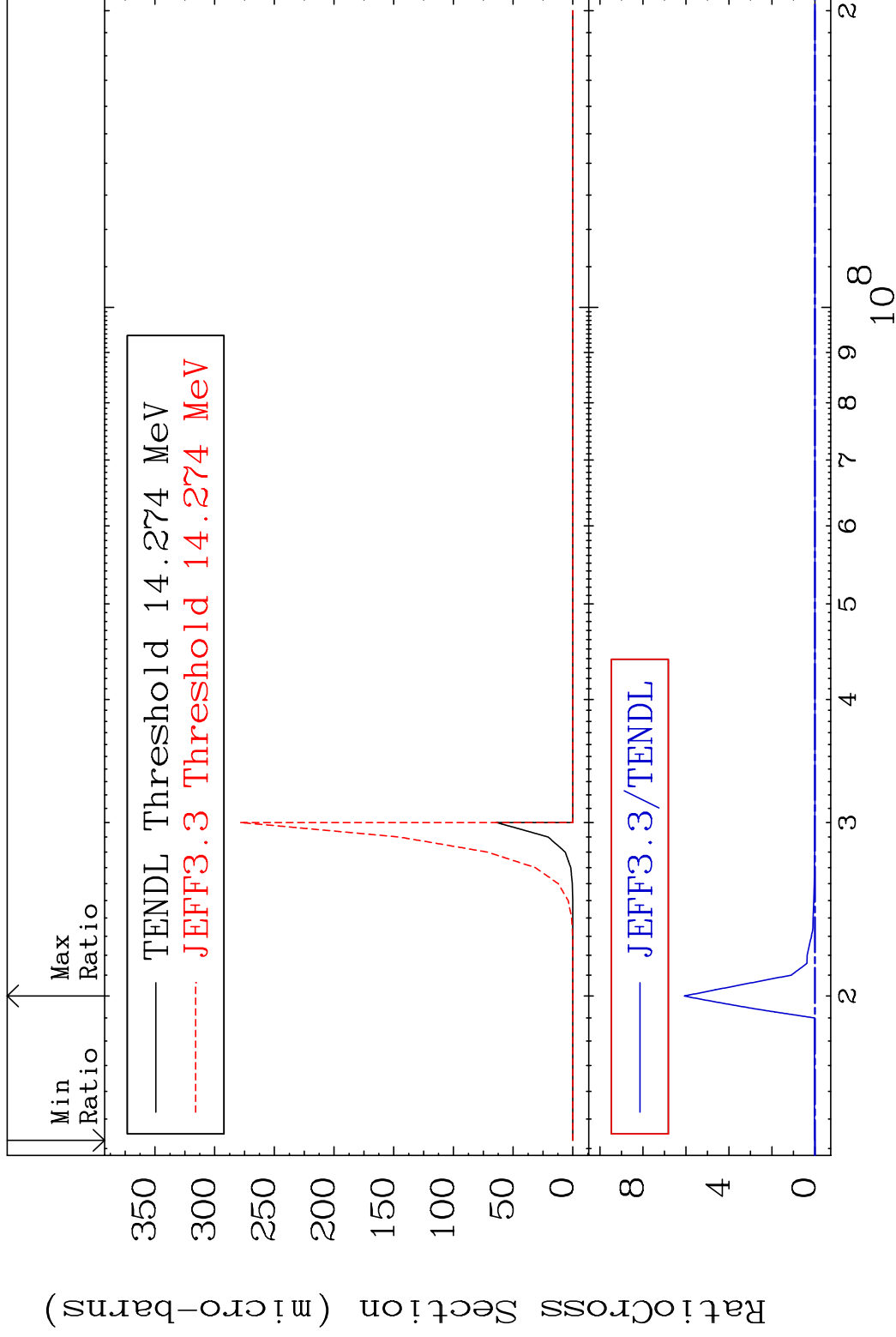


MAT 6416

(n,3n)  $\alpha$

64-Gd-149

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

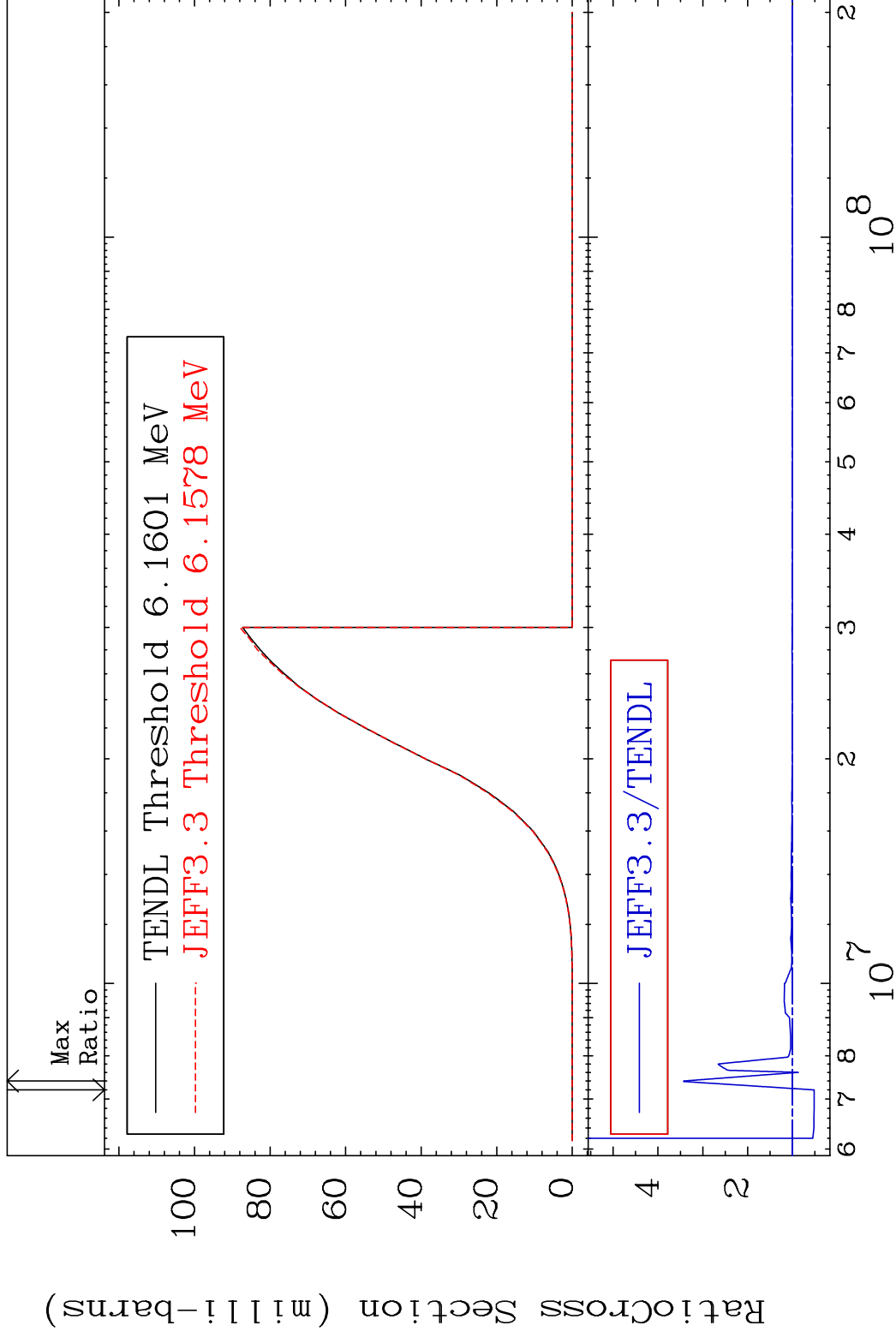
64-Gd-149

MAT 6416

(n, n') p

64-Gd-149

Cross Section -48.37 To 242.7 %



10

Incident Energy (eV)

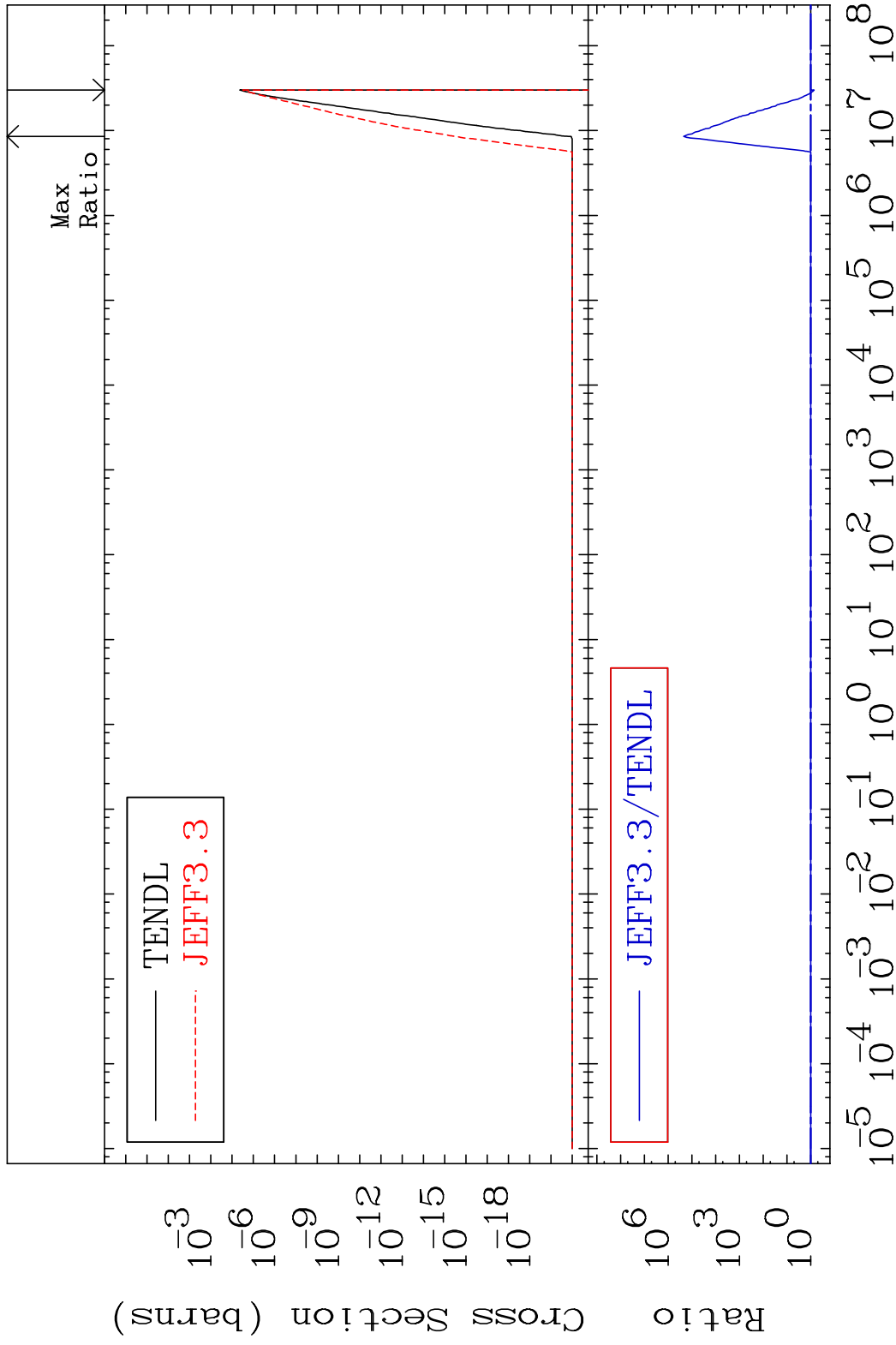
64-Gd-149

MAT 6416

(n, n') 2α

64-Gd-149

Cross Section -28.58 To 9999. %

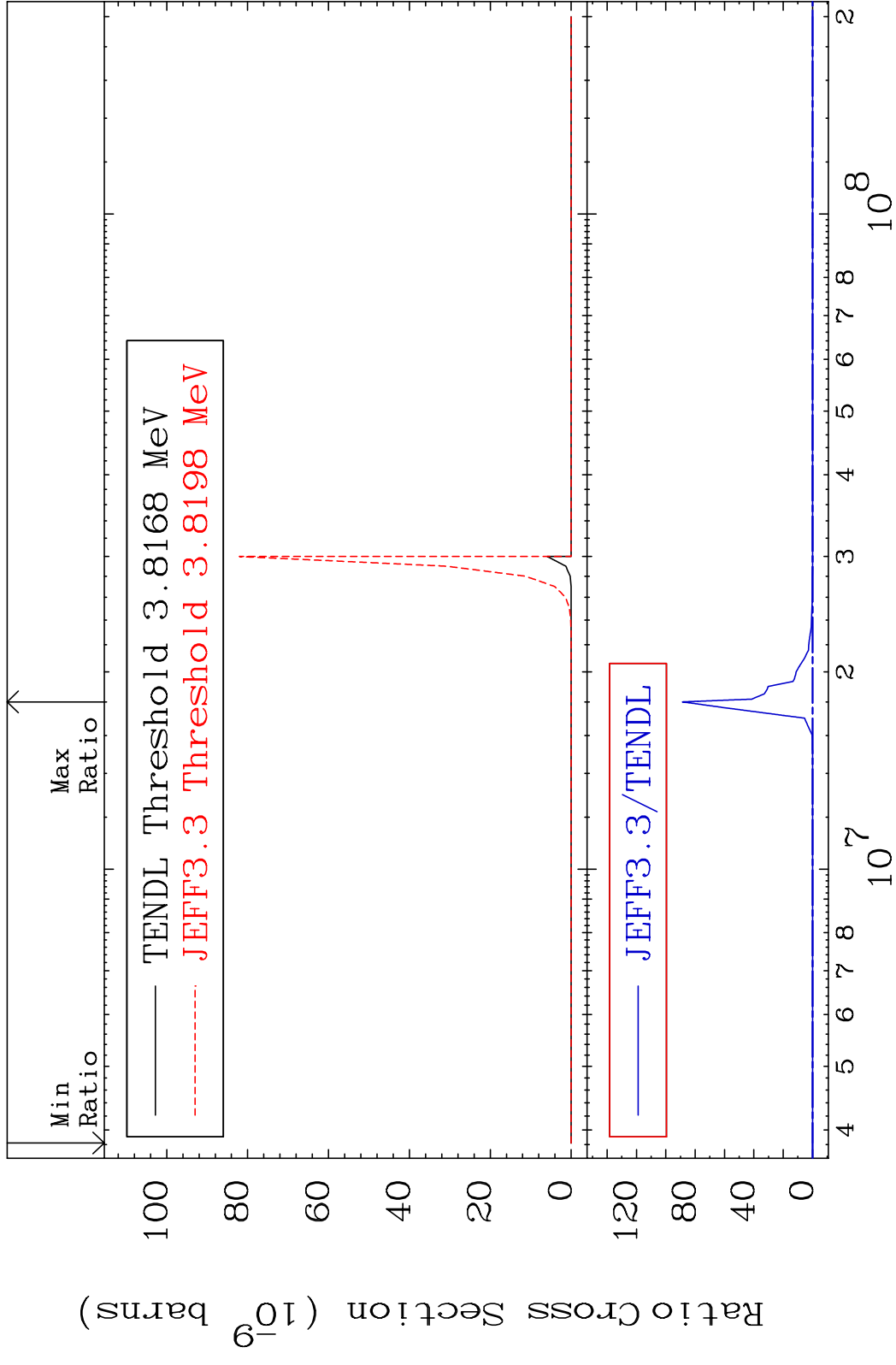


11

Incident Energy (eV)

64-Gd-149

MAT 6416 (n,2n) 2α 64-Gd-149  
 Cross Section -100.0 To 9999. %

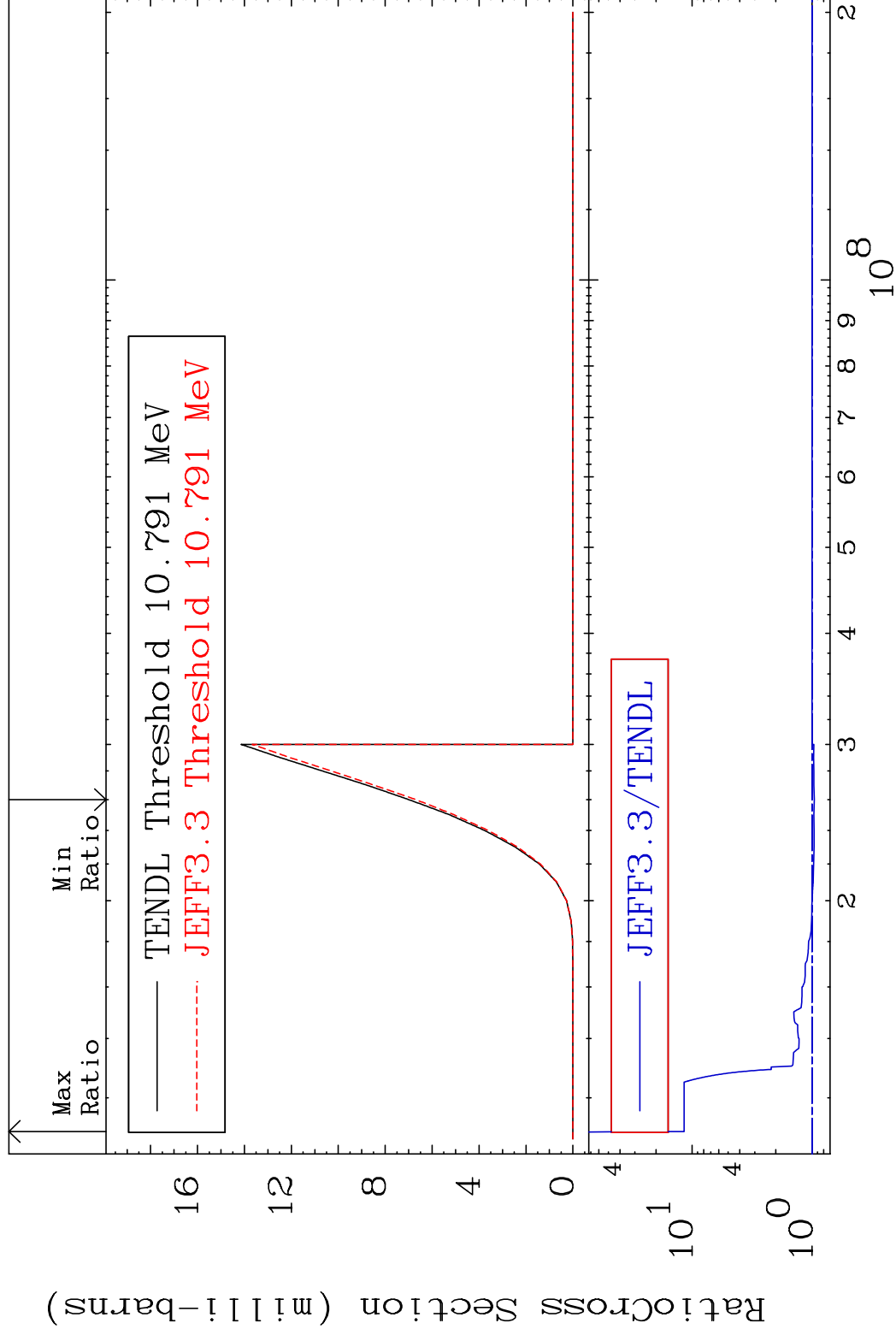


MAT 6416

(n, n') d

64-Gd-149

Cross Section -4.316 To 1067. %

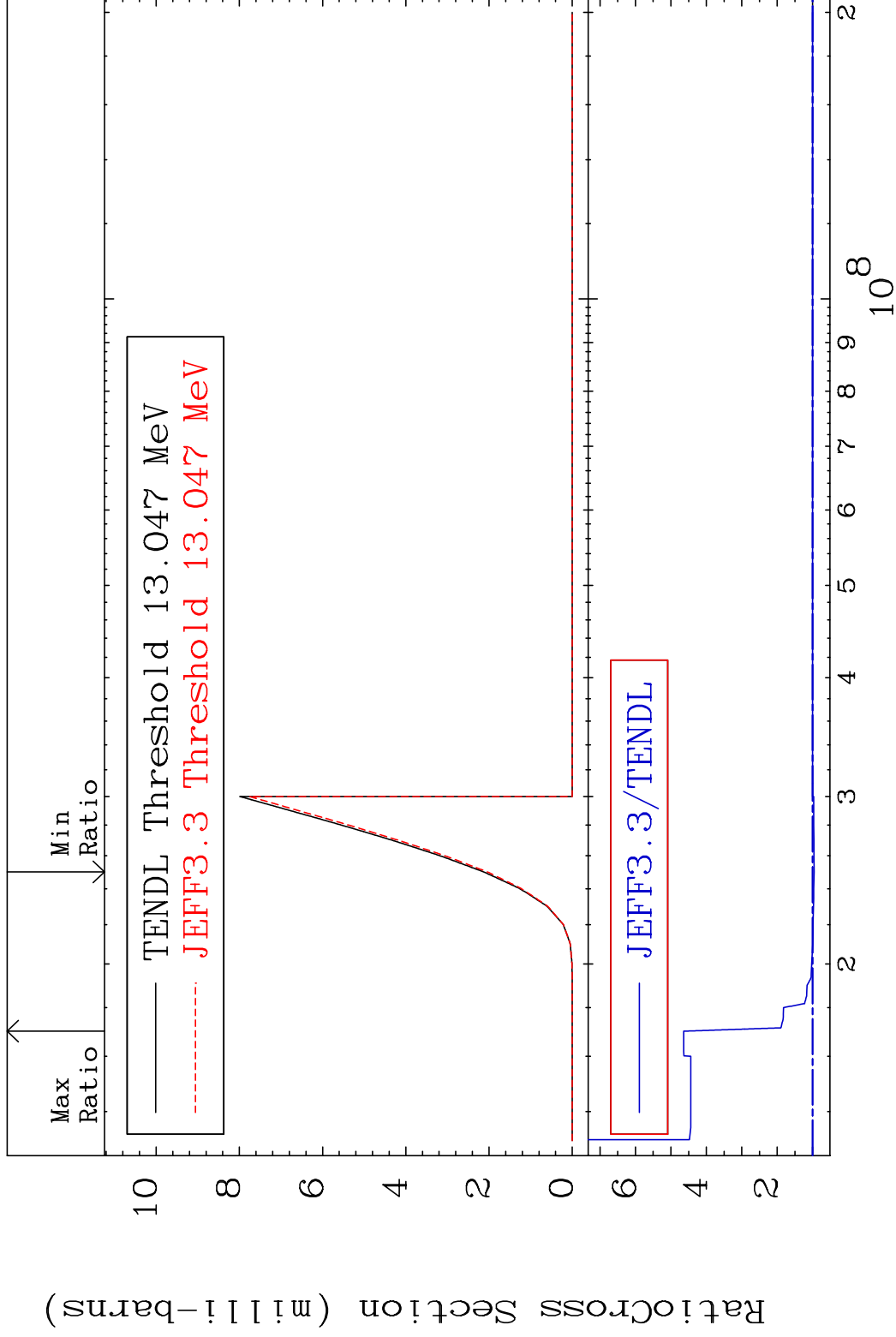


MAT 6416

(n, n') t

64-Gd-149

Cross Section -4.146 To 364.0 %



14

Incident Energy (eV)

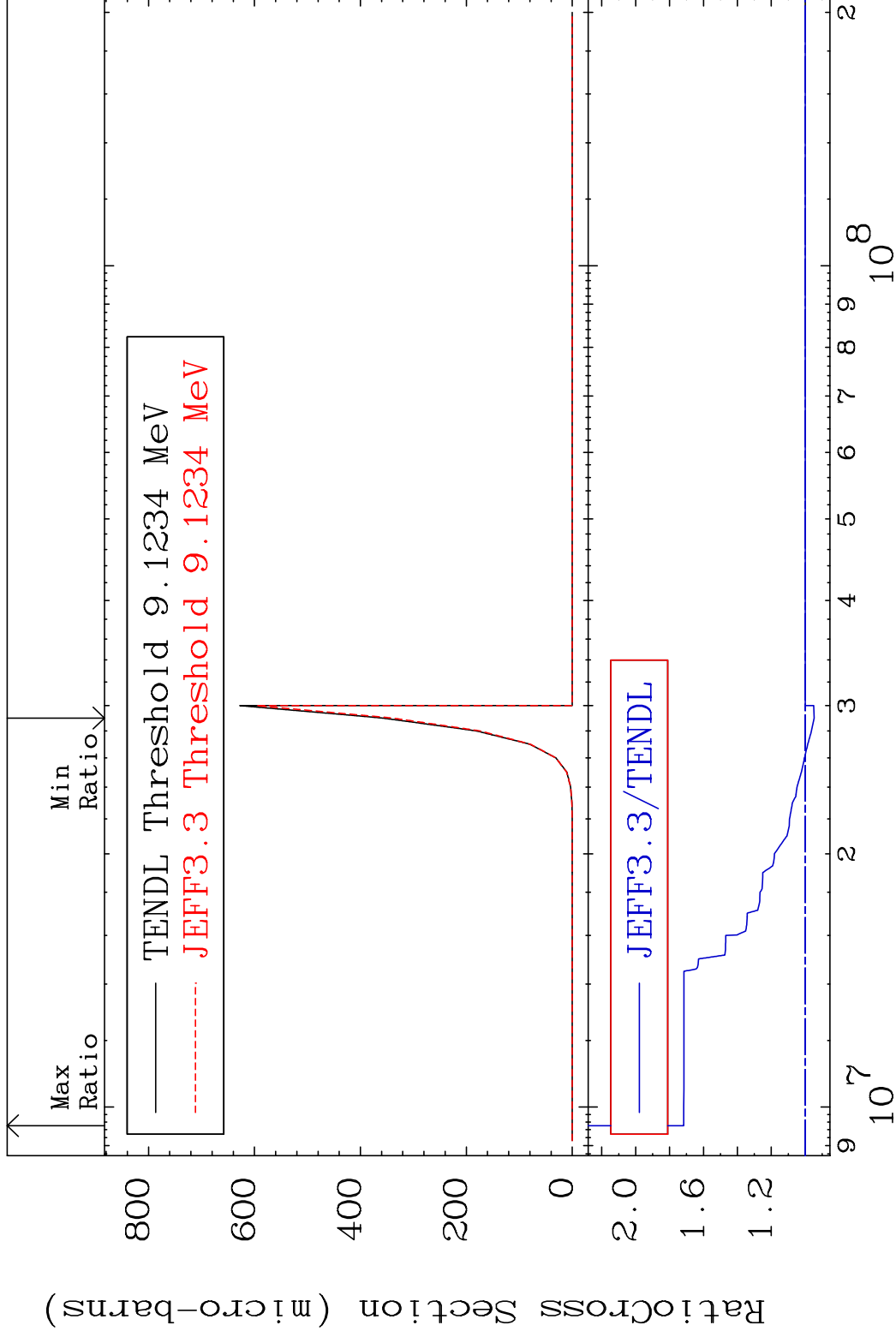
64-Gd-149

MAT 6416

(n,n') He-3

64-Gd-149

Cross Section -5.259 To 71.69 %



15

Incident Energy (eV)

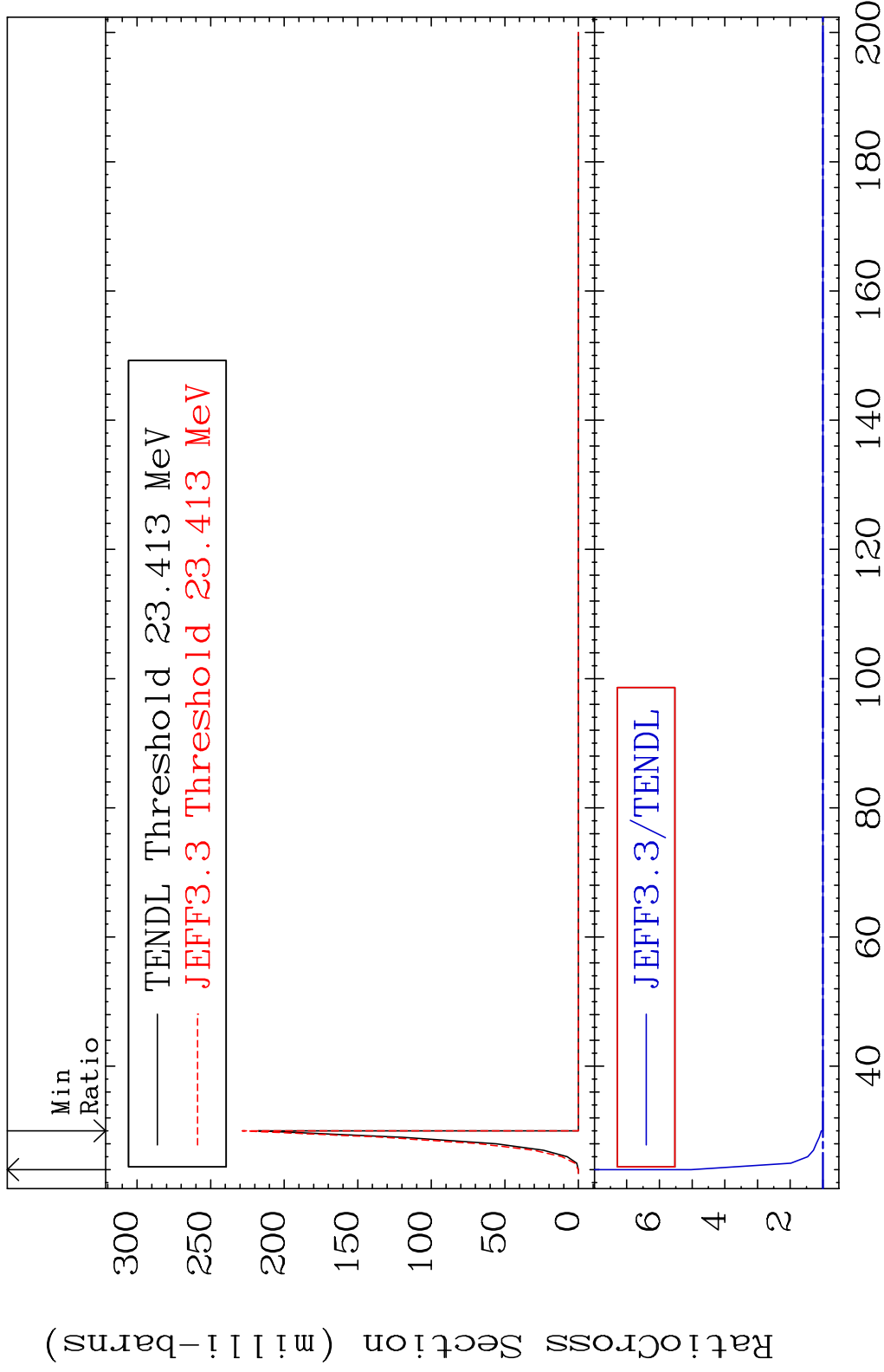
64-Gd-149

MAT 6416

(n,4n)

64-Gd-149

Cross Section 0.000 To 403.3 %



16

Incident Energy (MeV)

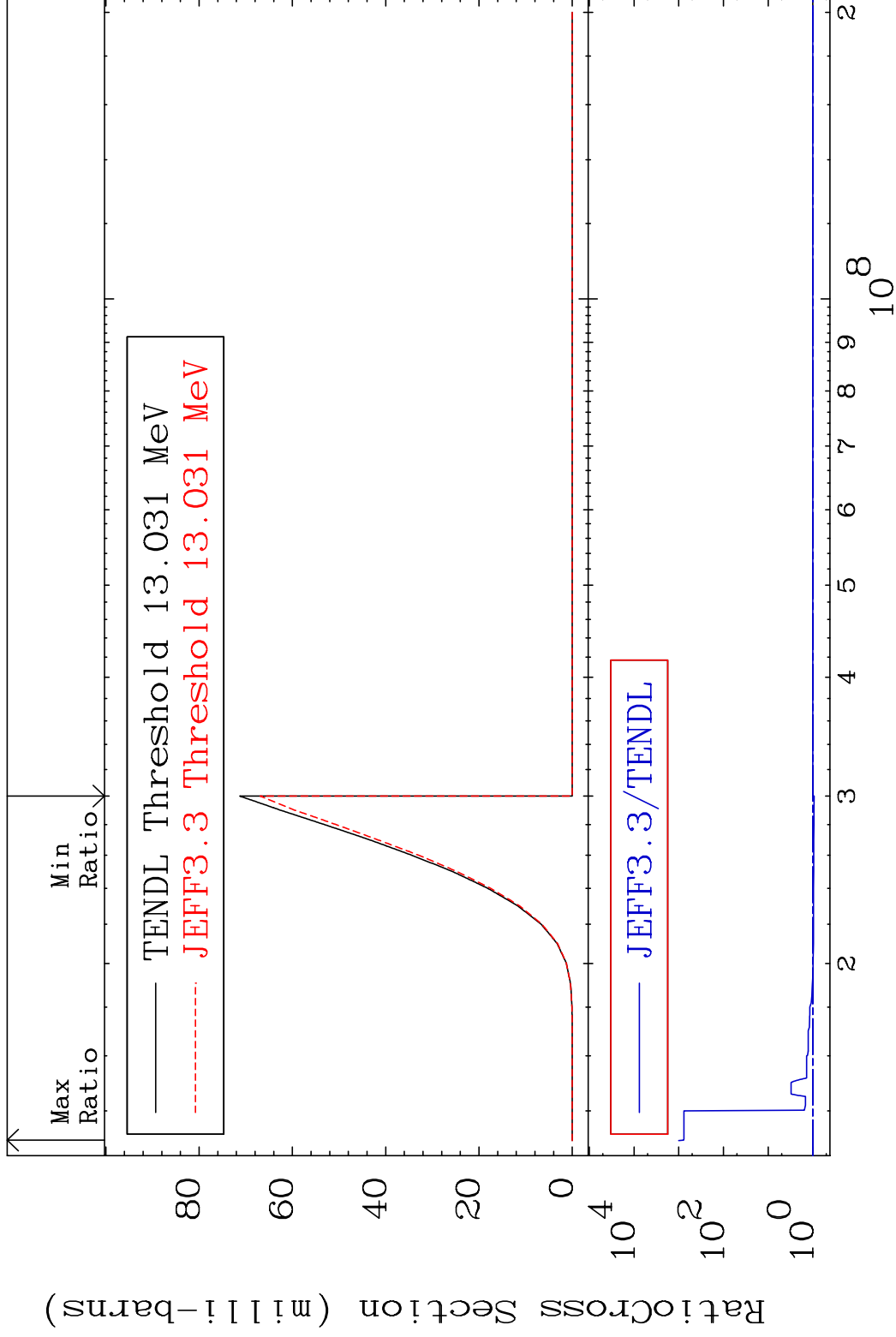
64-Gd-149

MAT 6416

(n,2n) p

64-Gd-149

Cross Section -6.098 To 9999. %

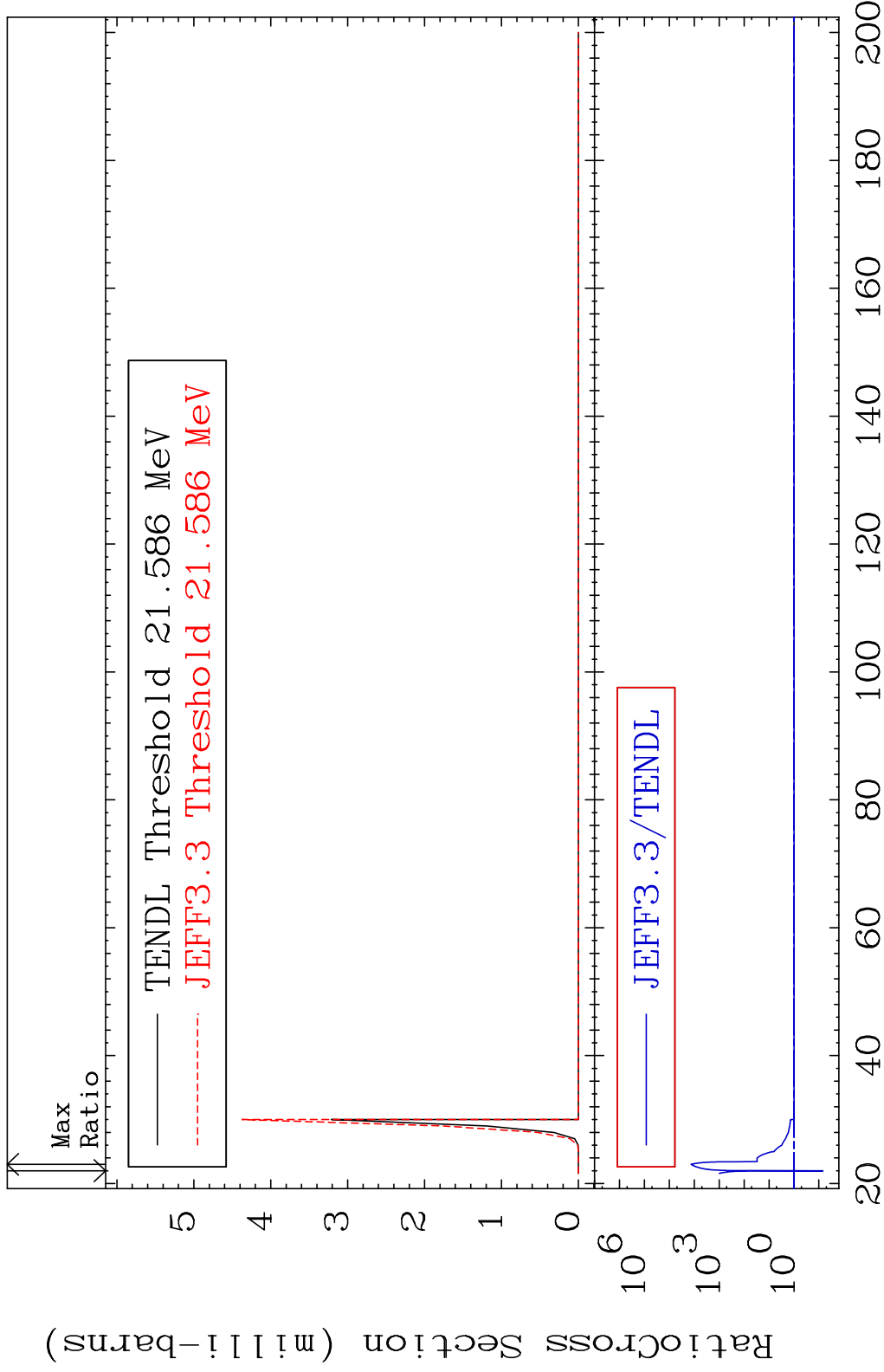


MAT 6416

(n,3n) p

64-Gd-149

Cross Section -93.09 To 9999. %

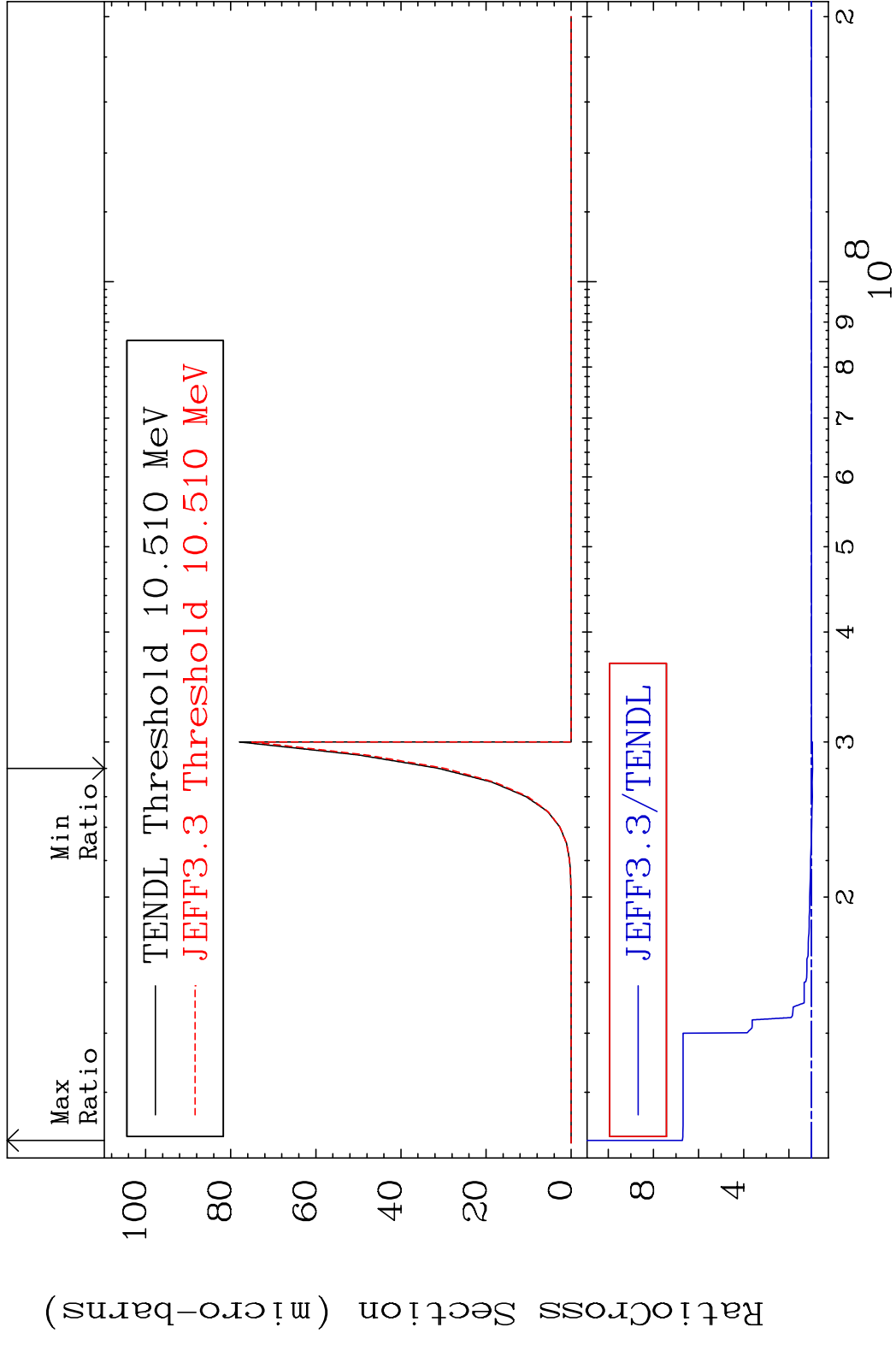


MAT 6416

(n,2n) p

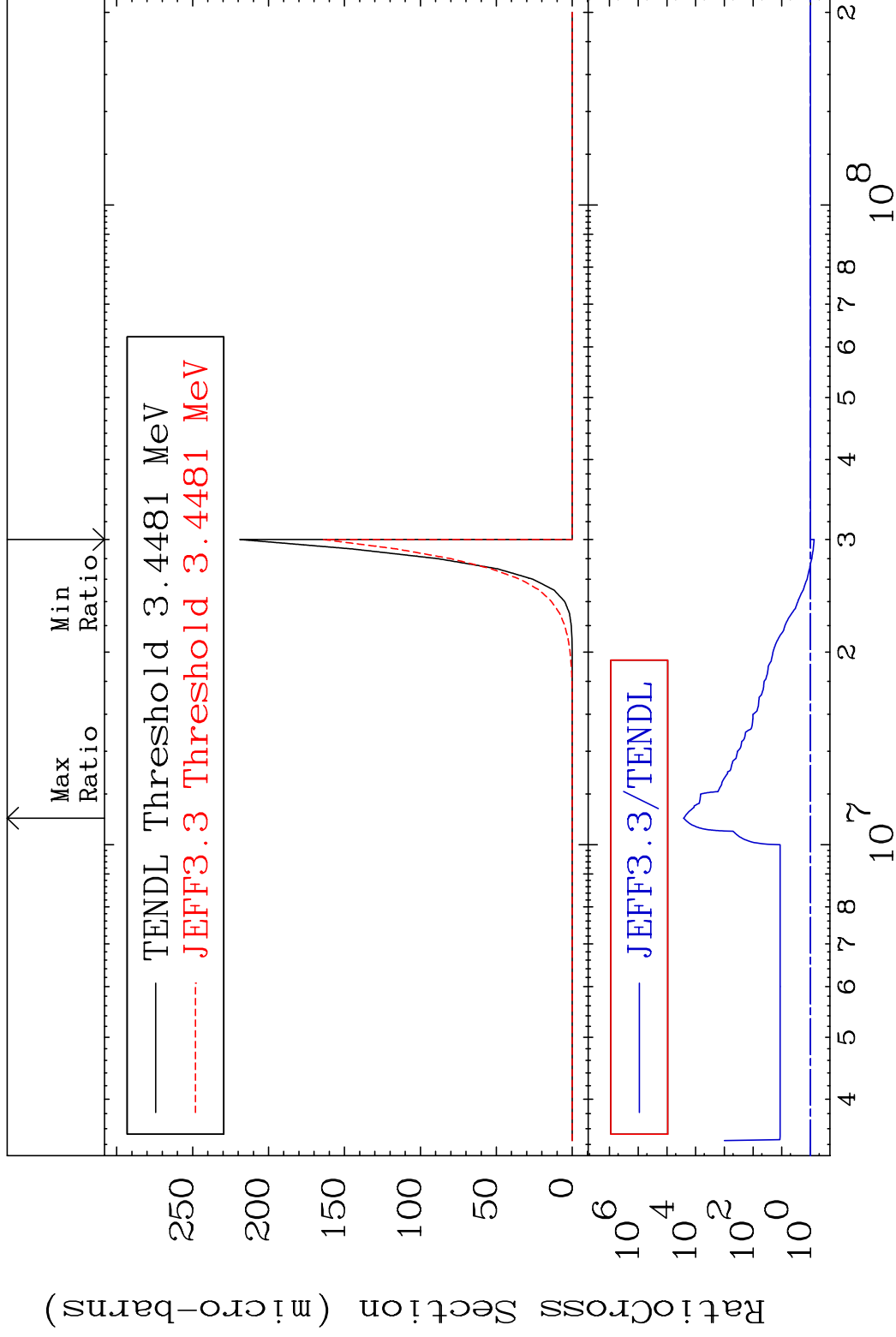
64-Gd-149

Cross Section -4.642 To 571.9 %



MAT 6416

(n, n') p  $\alpha$  64-Gd-149  
Cross Section -25.12 To 9999. %

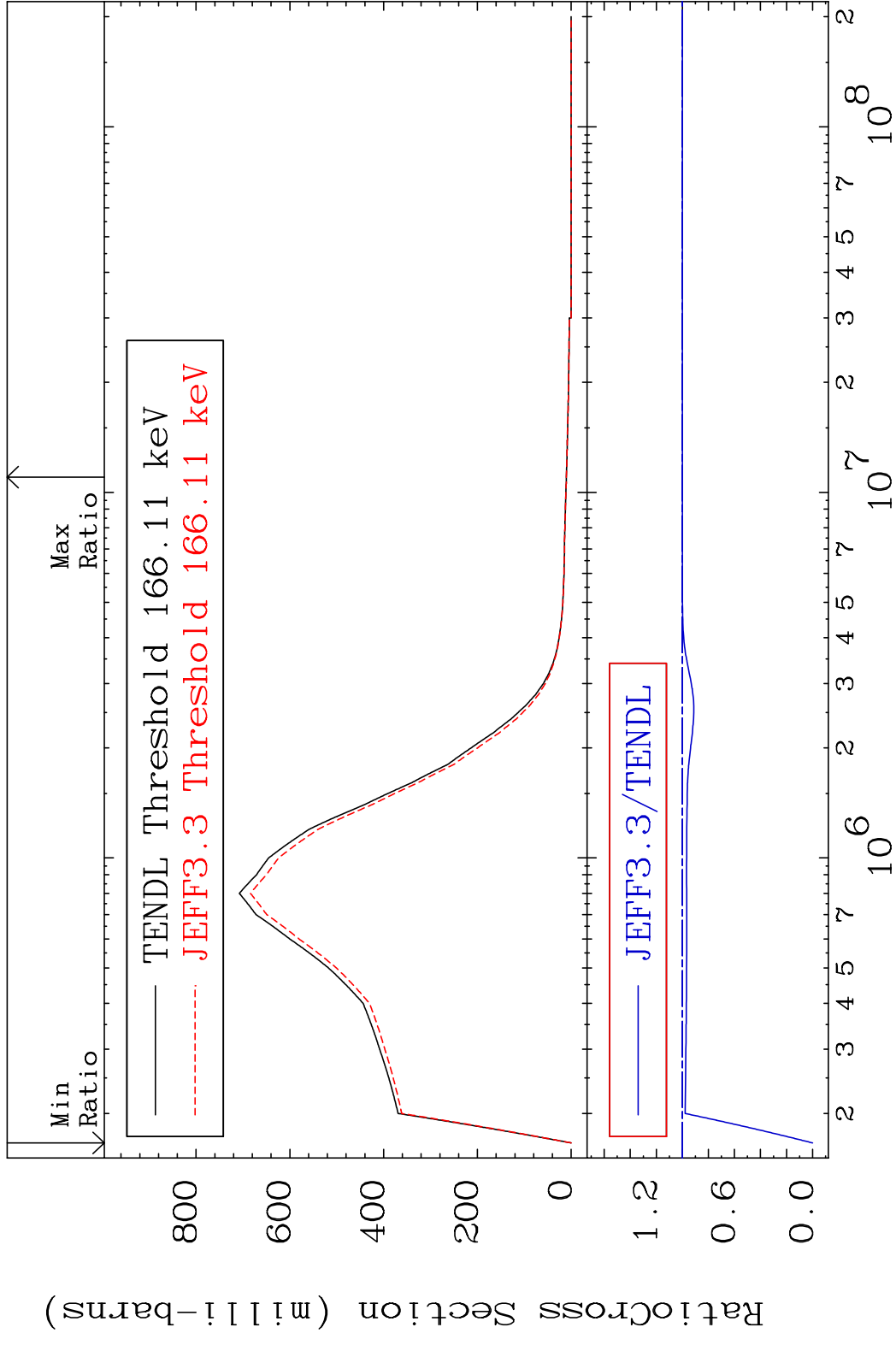


20

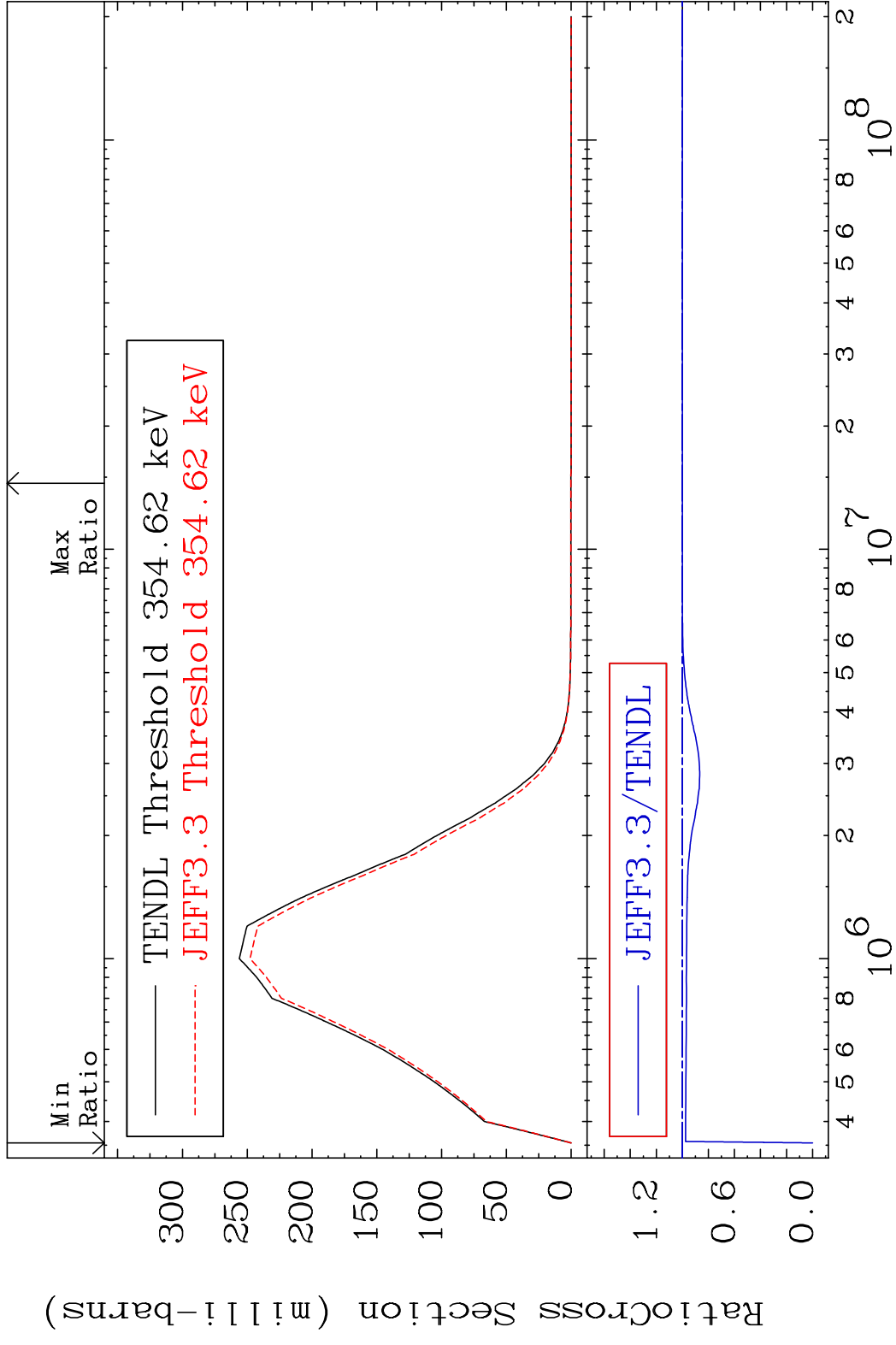
Incident Energy (eV)

64-Gd-149

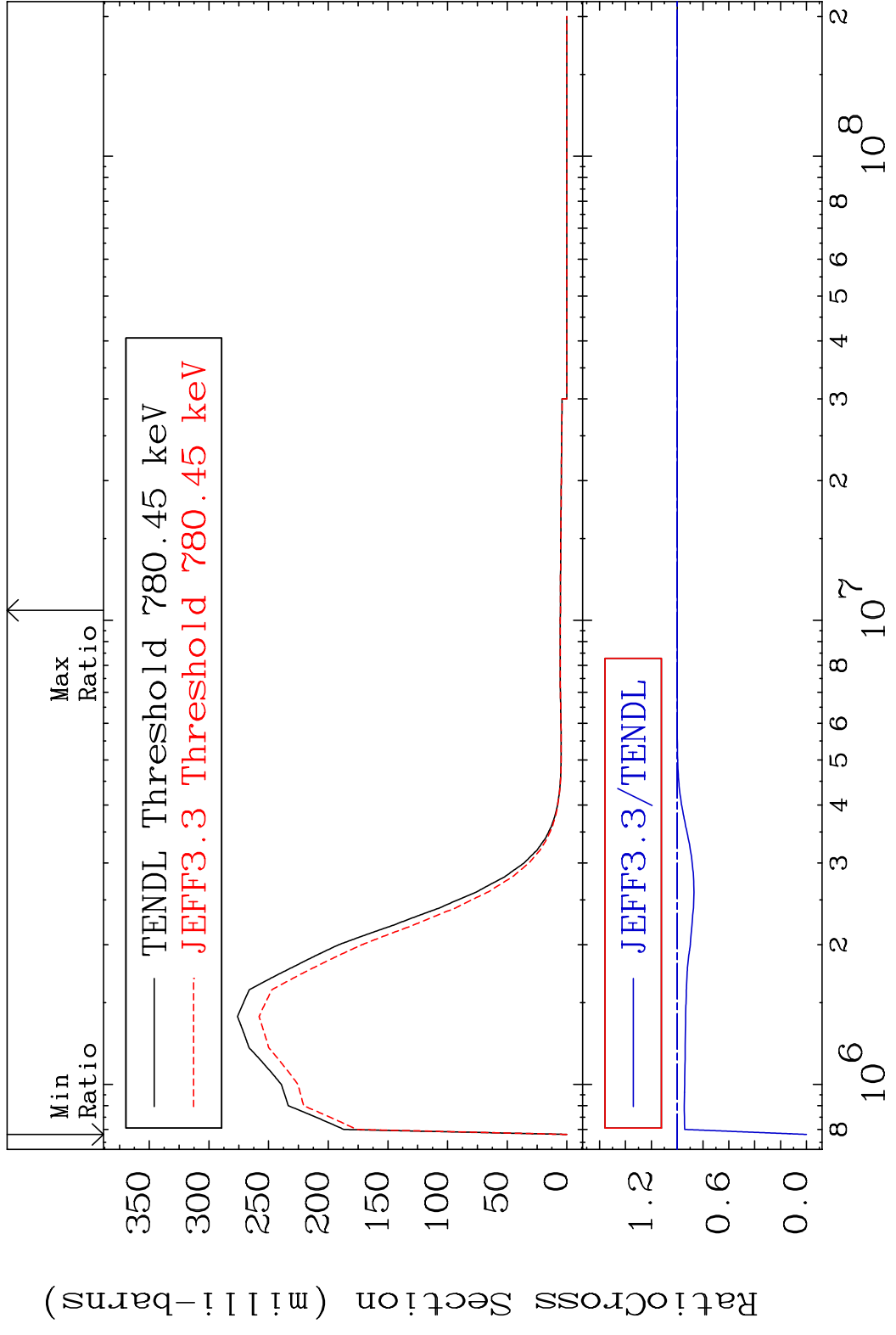
MAT 6416 MT= 51 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



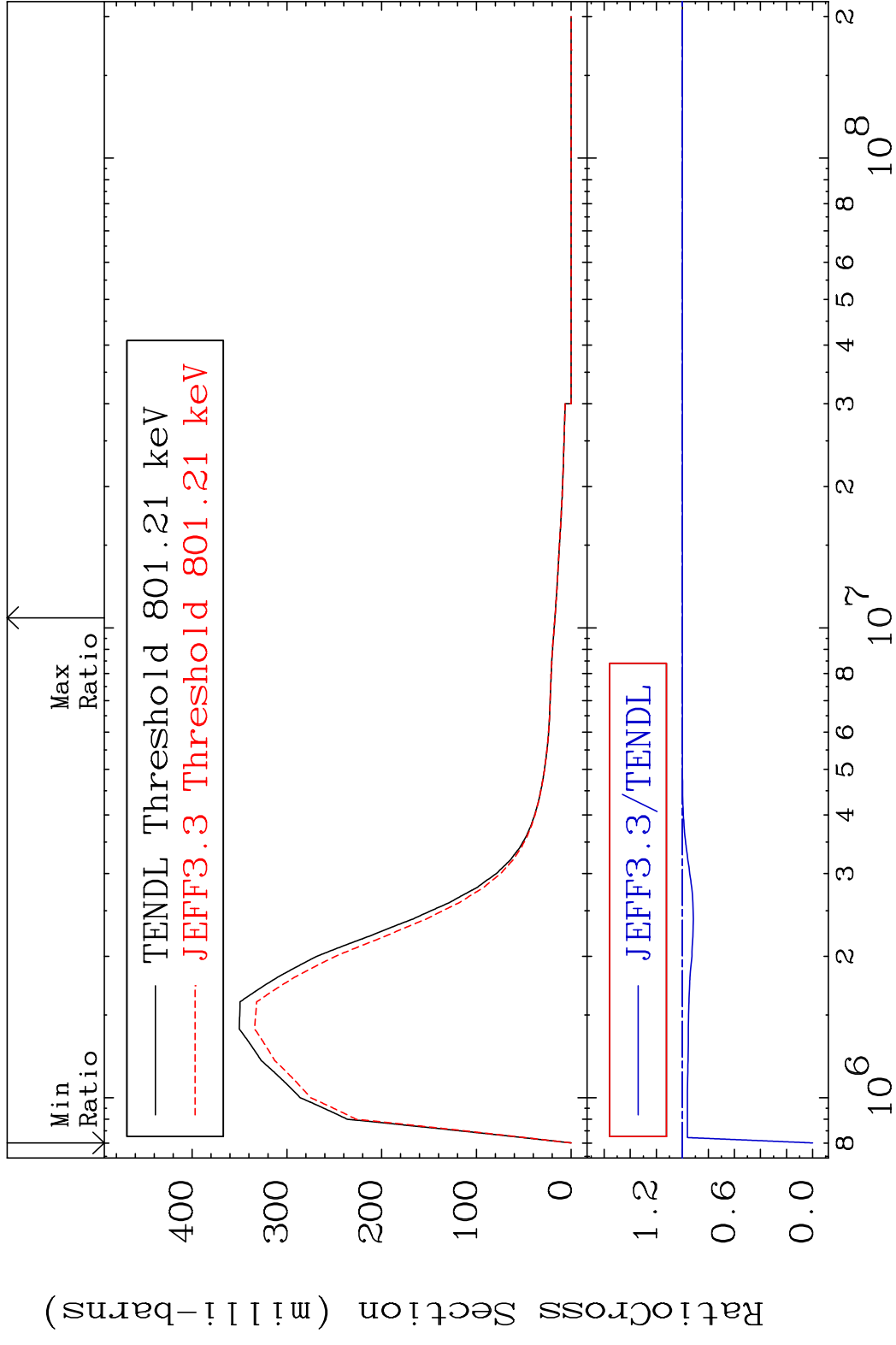
MAT 6416 MT= 52 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



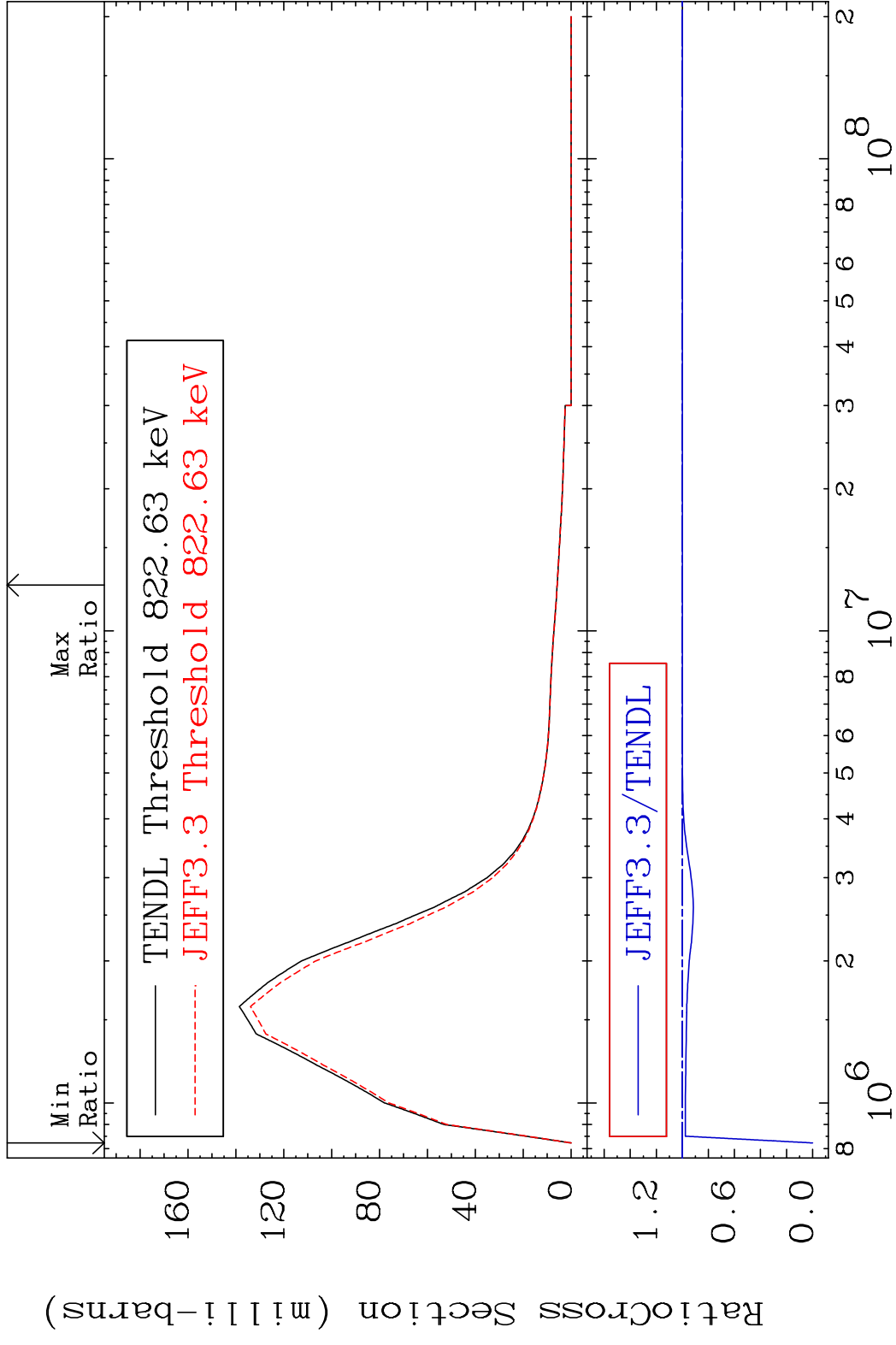
MAT 6416 MT= 53 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



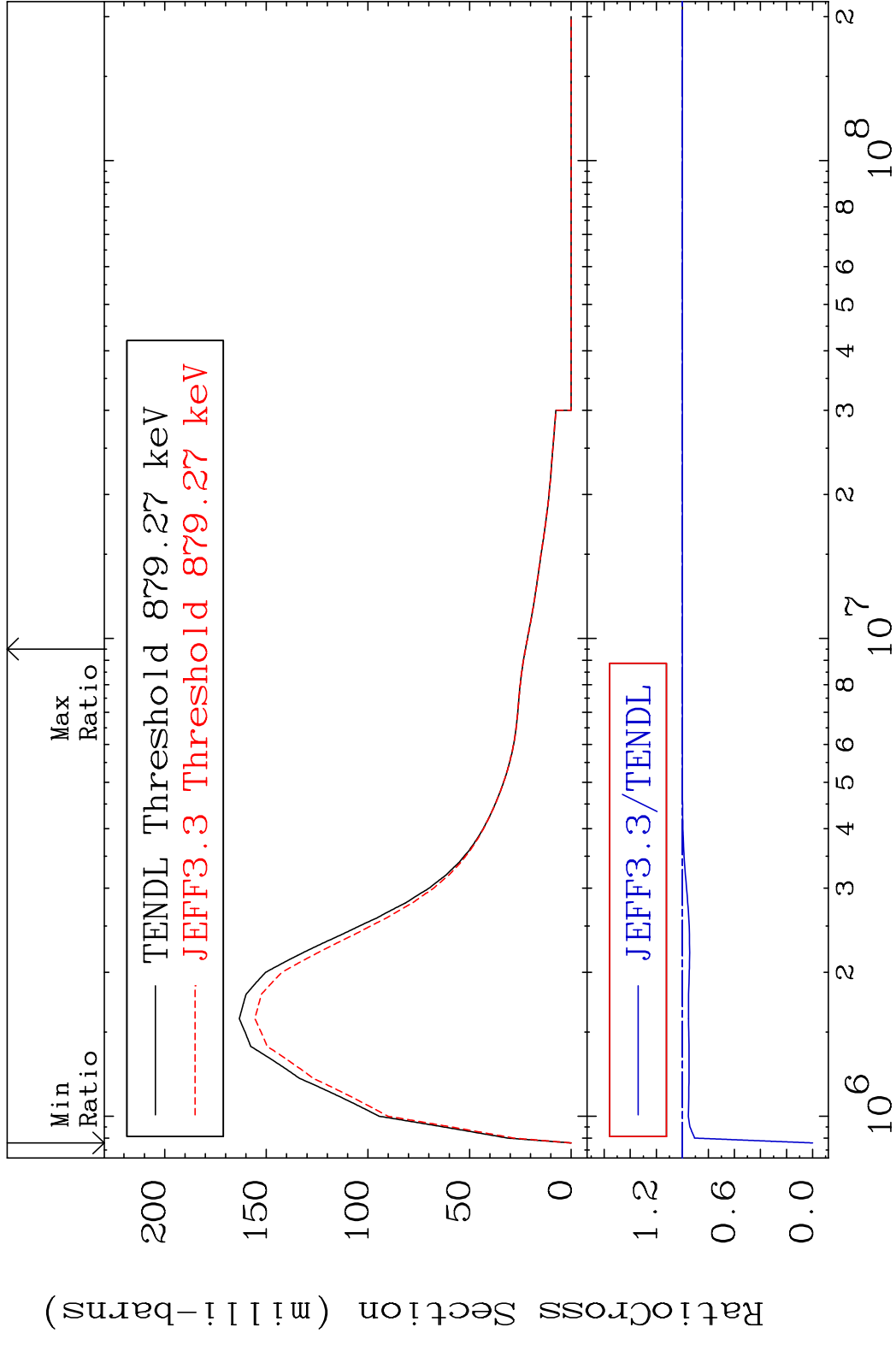
MAT 6416 MT= 54 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



MAT 6416 MT= 55 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %

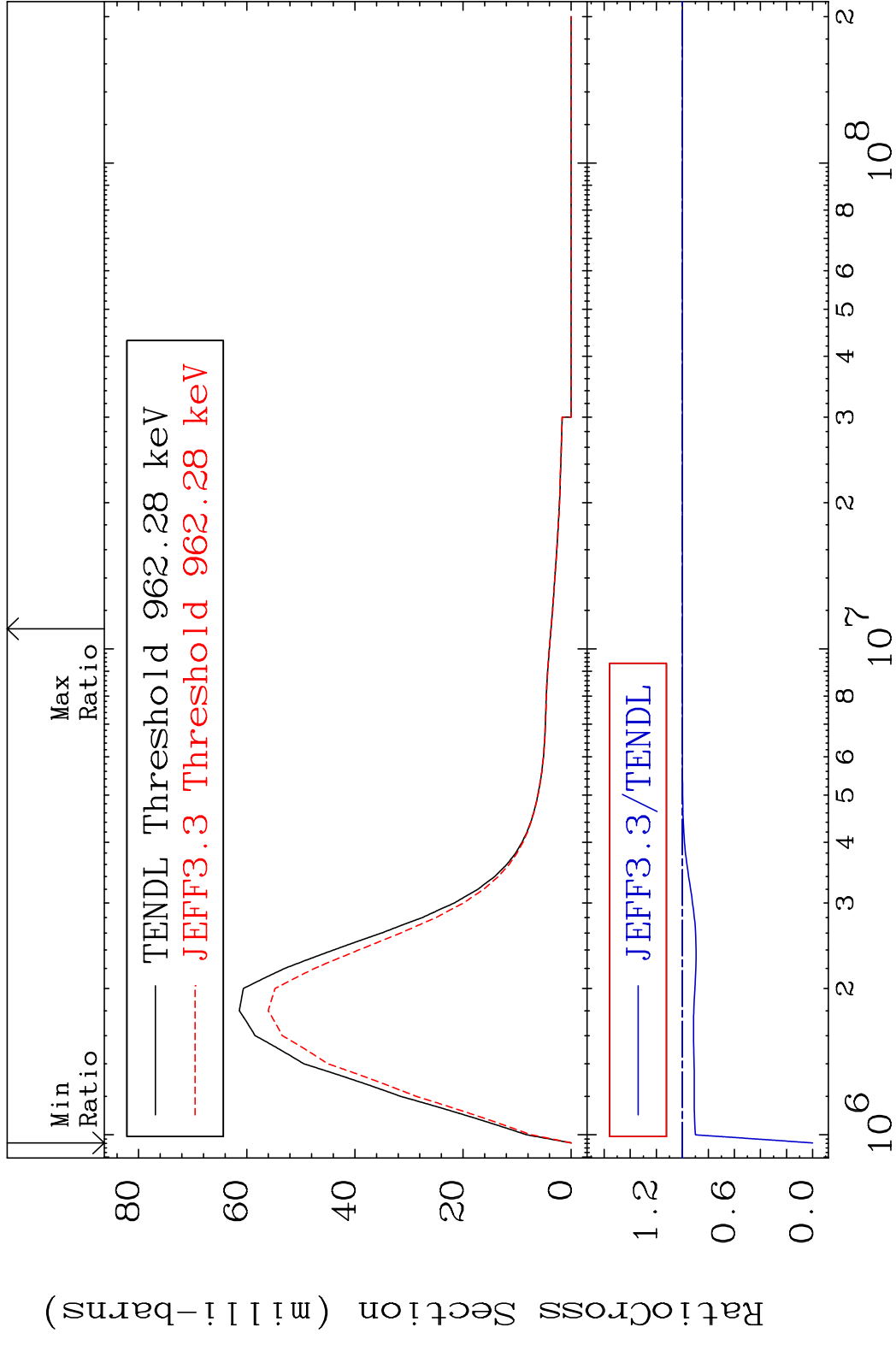


MAT 6416 MT= 56 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



26 Incident Energy (eV) 64-Gd-149

MAT 6416 MT= 57 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



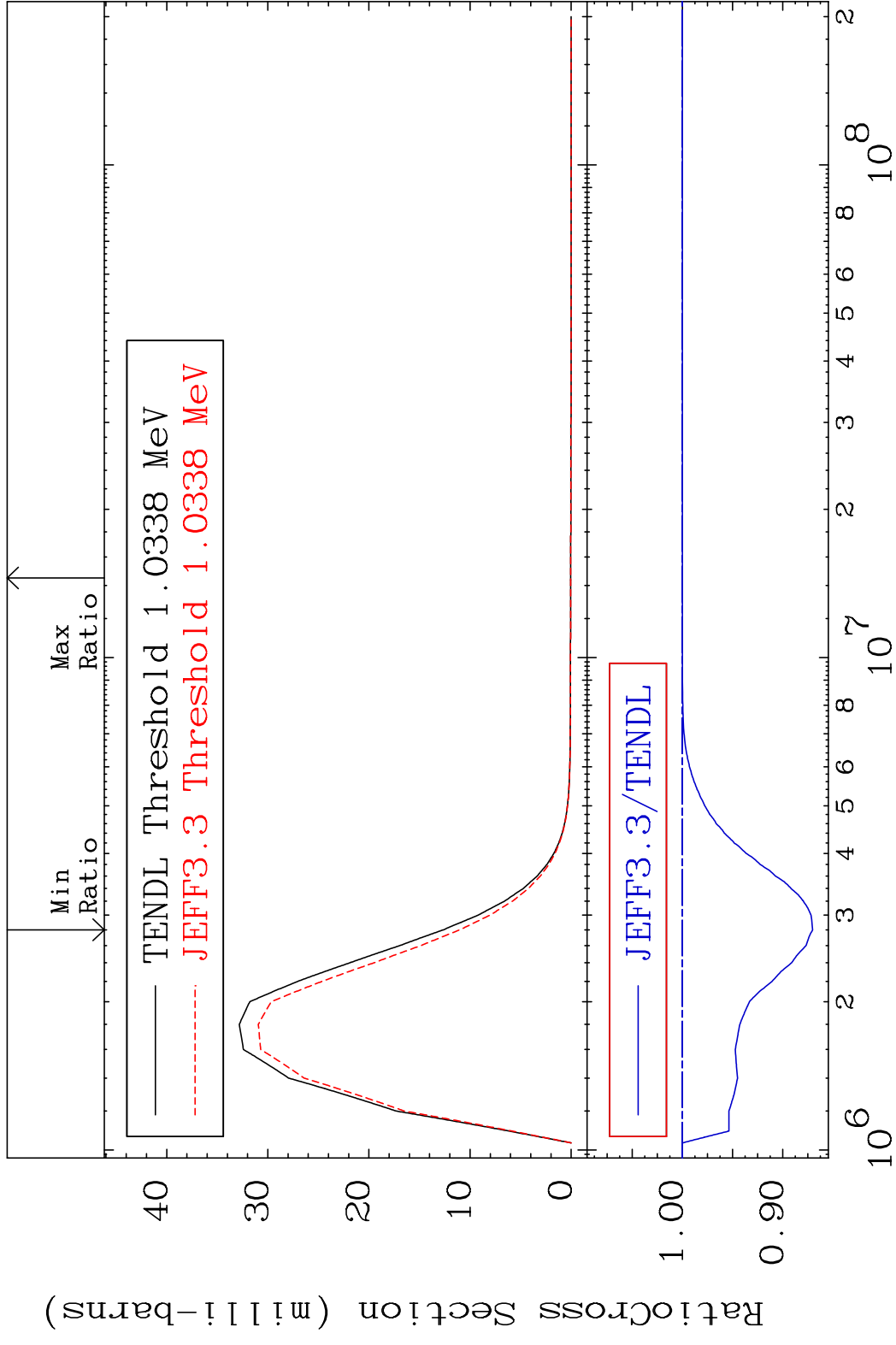
27 Incident Energy (eV) 64-Gd-149

MAT 6416

MT= 58 (n, n') Level

64-Gd-149

Cross Section -12.96 To 0.000 %

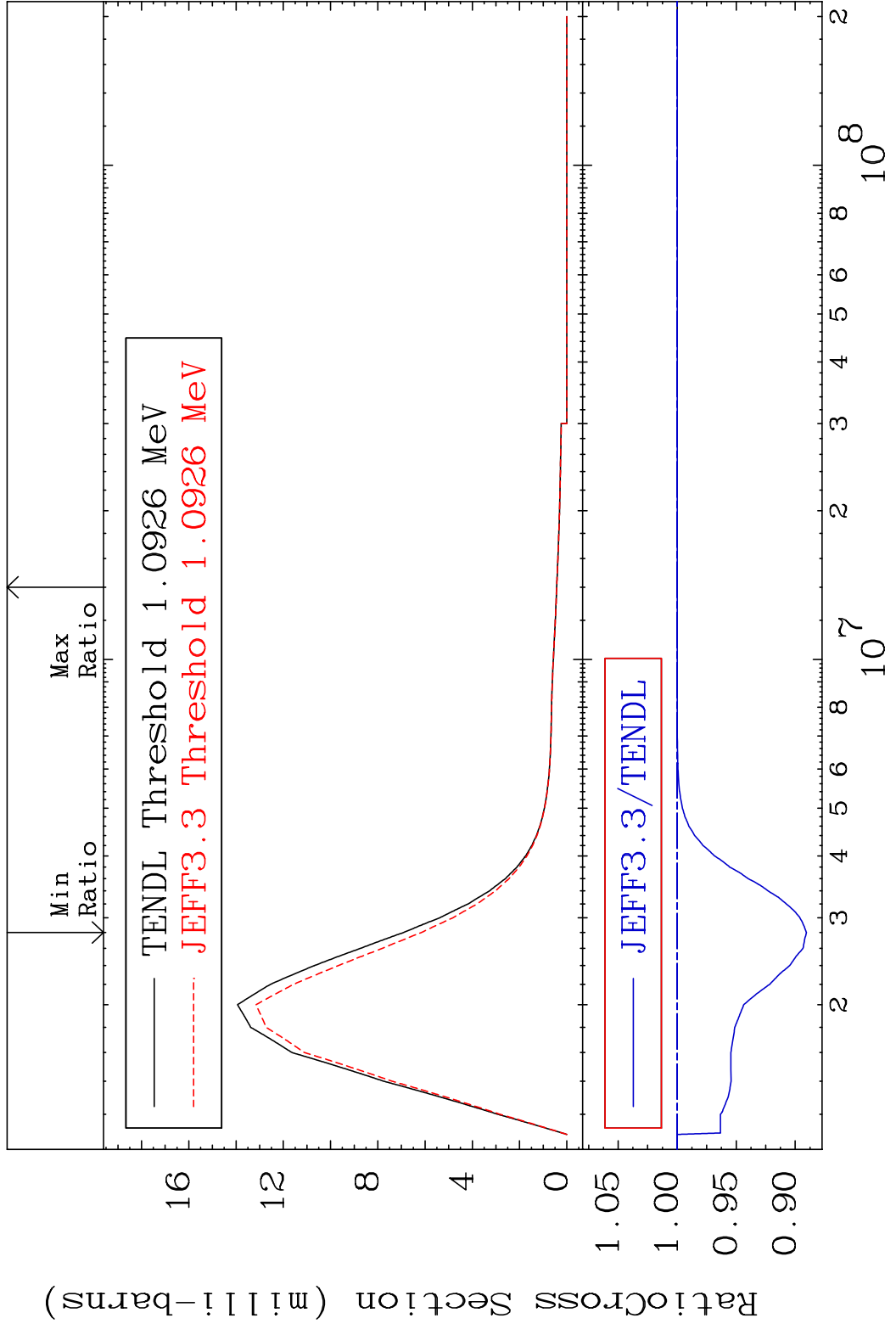


28

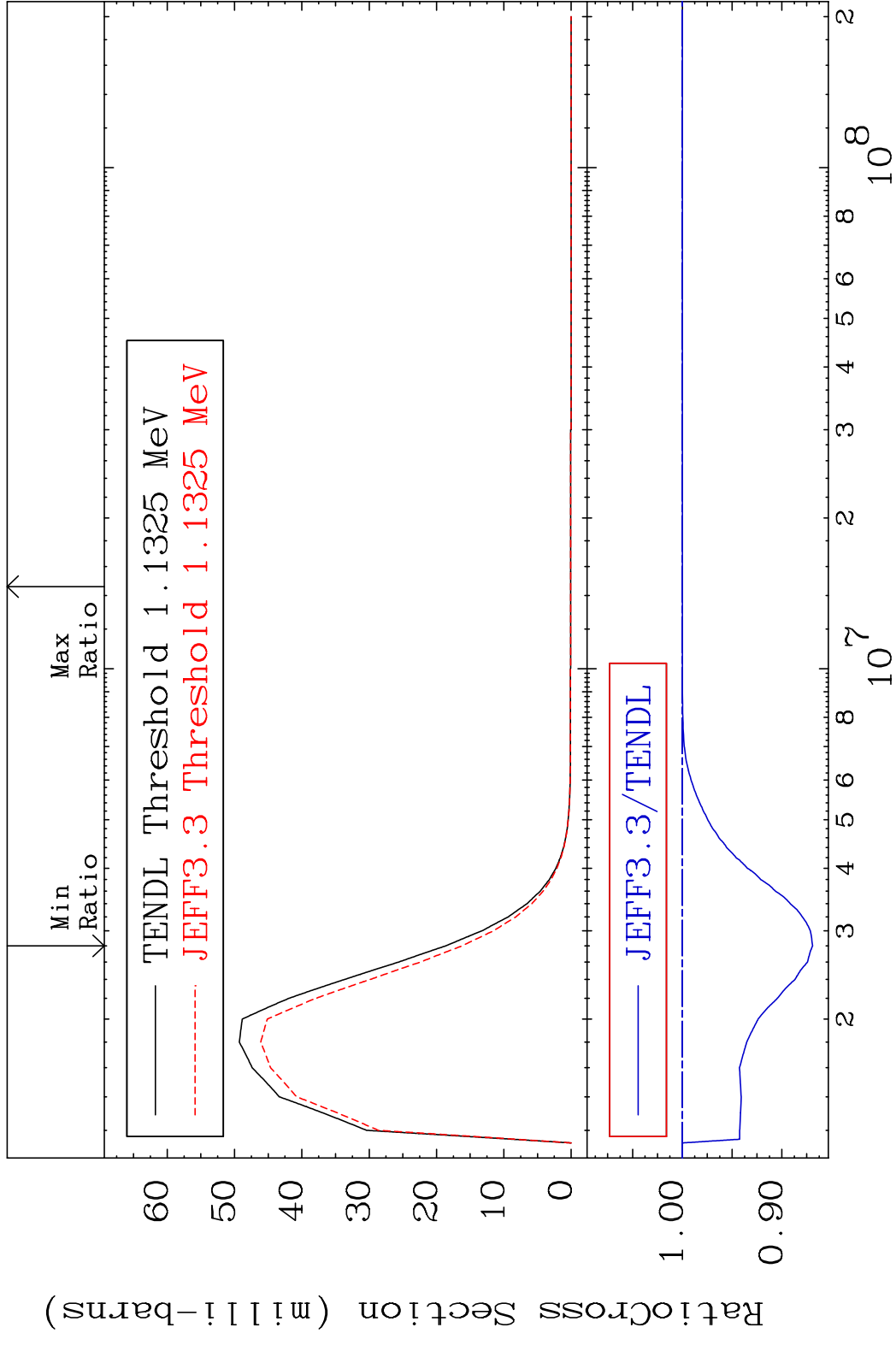
Incident Energy (eV)

64-Gd-149

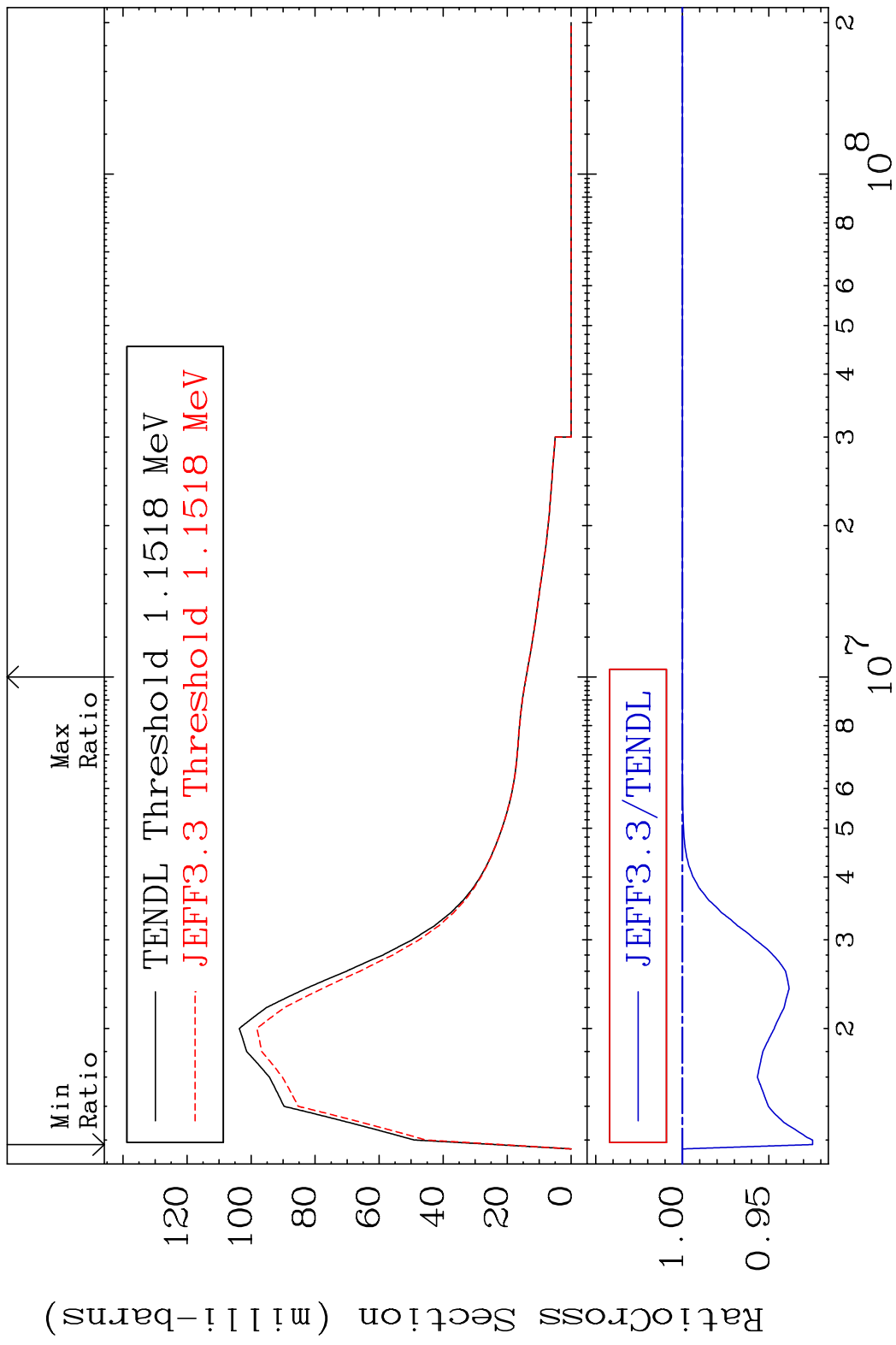
MAT 6416 MT= 59 (n, n') Level 64-Gd-149  
 Cross Section -10.95 To 0.000 %



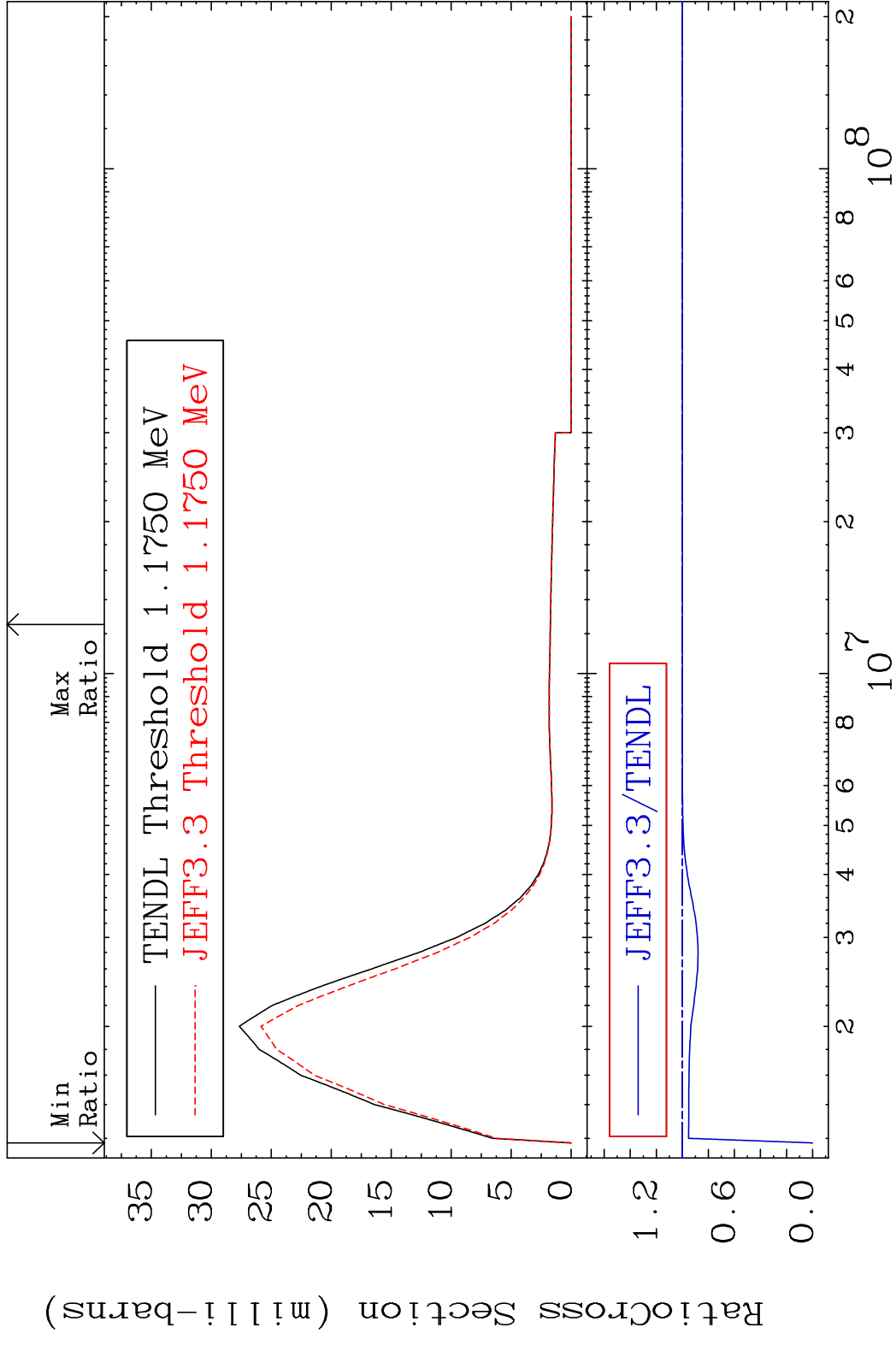
MAT 6416 MT= 60 (n, n') Level 64-Gd-149  
 Cross Section -13.08 To 0.000 %



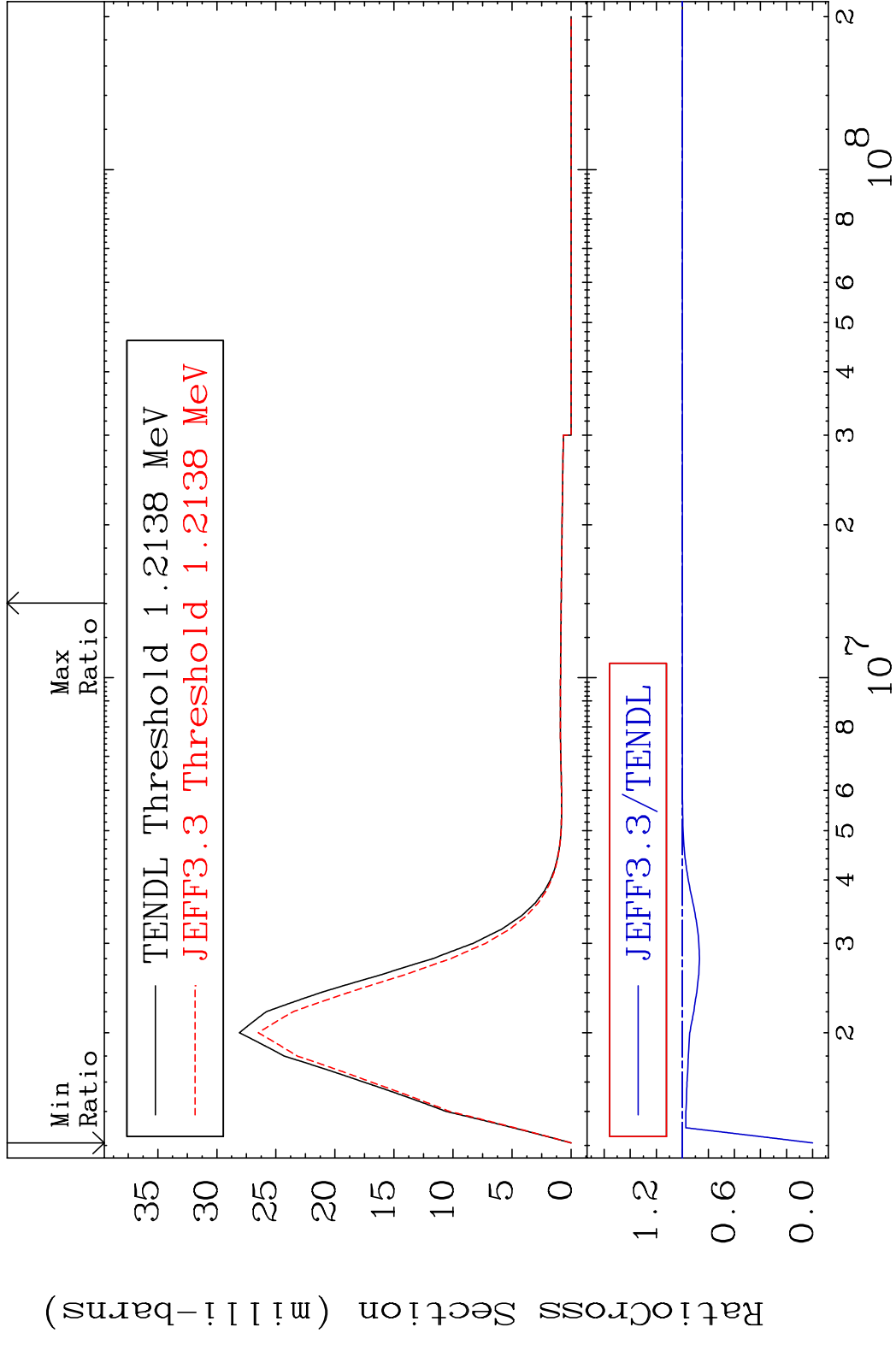
MAT 6416 MT= 61 (n, n') Level 64-Gd-149  
 Cross Section -7.523 To 0.000 %



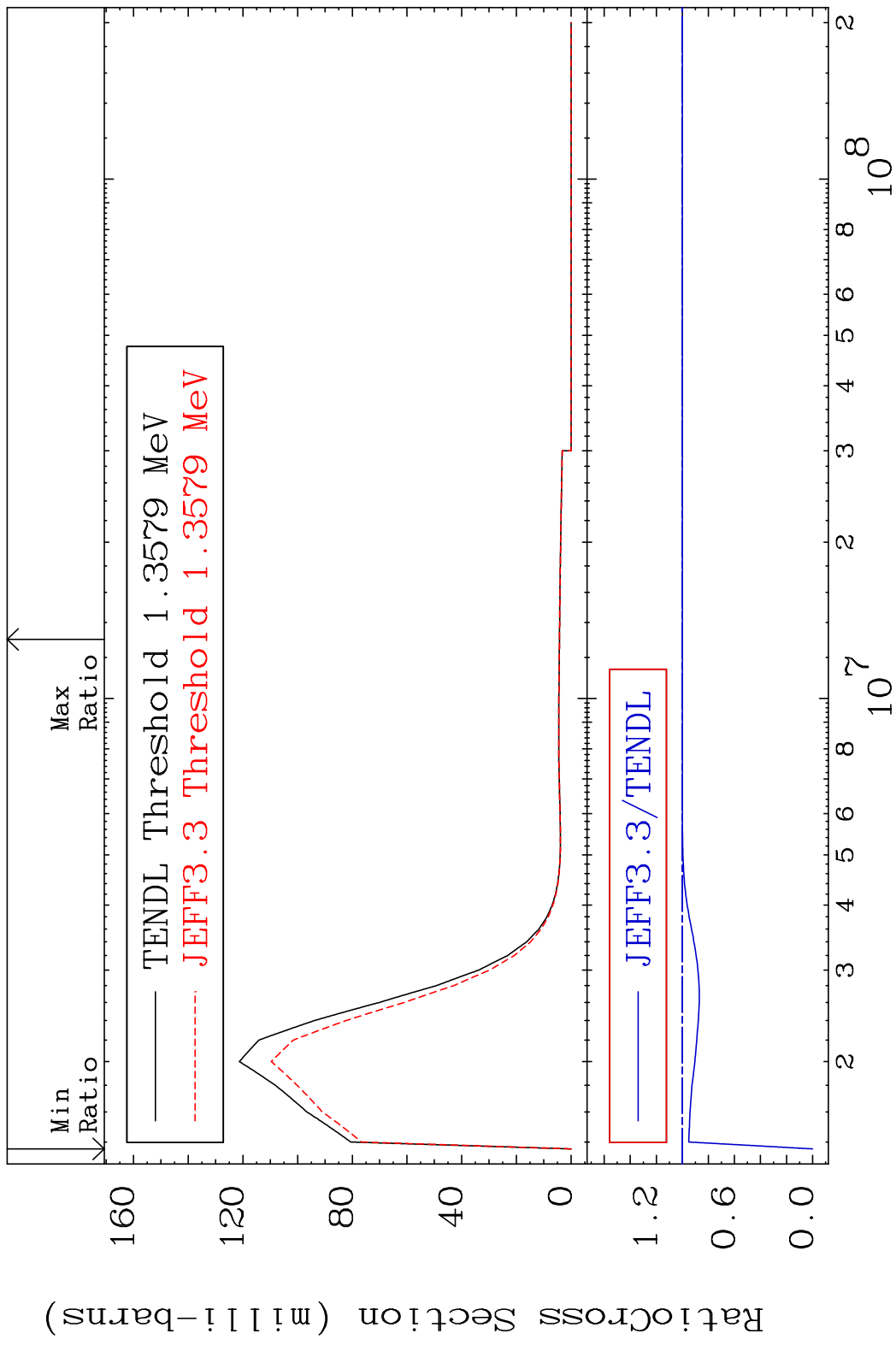
MAT 6416 MT= 62 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



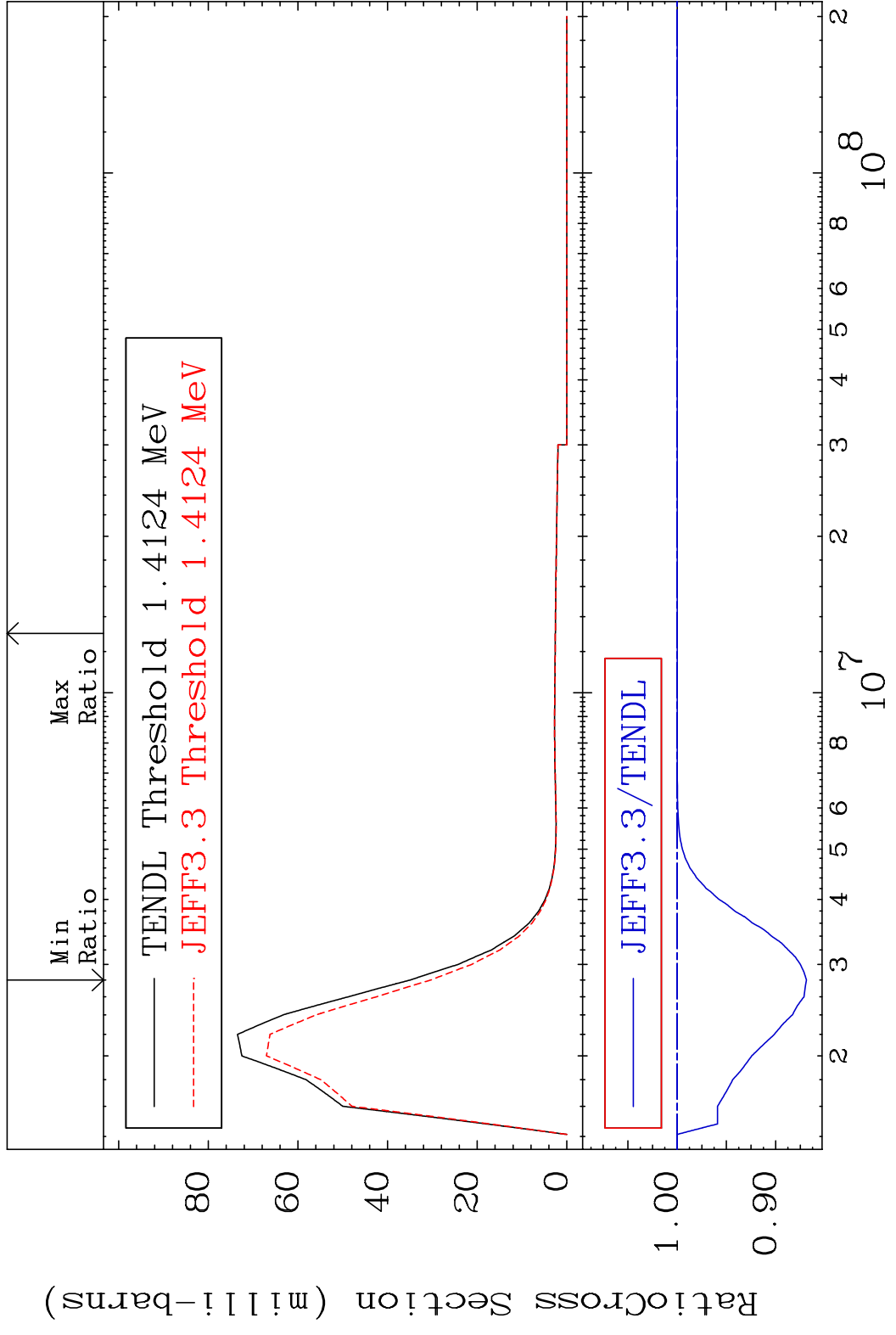
MAT 6416 MT= 63 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



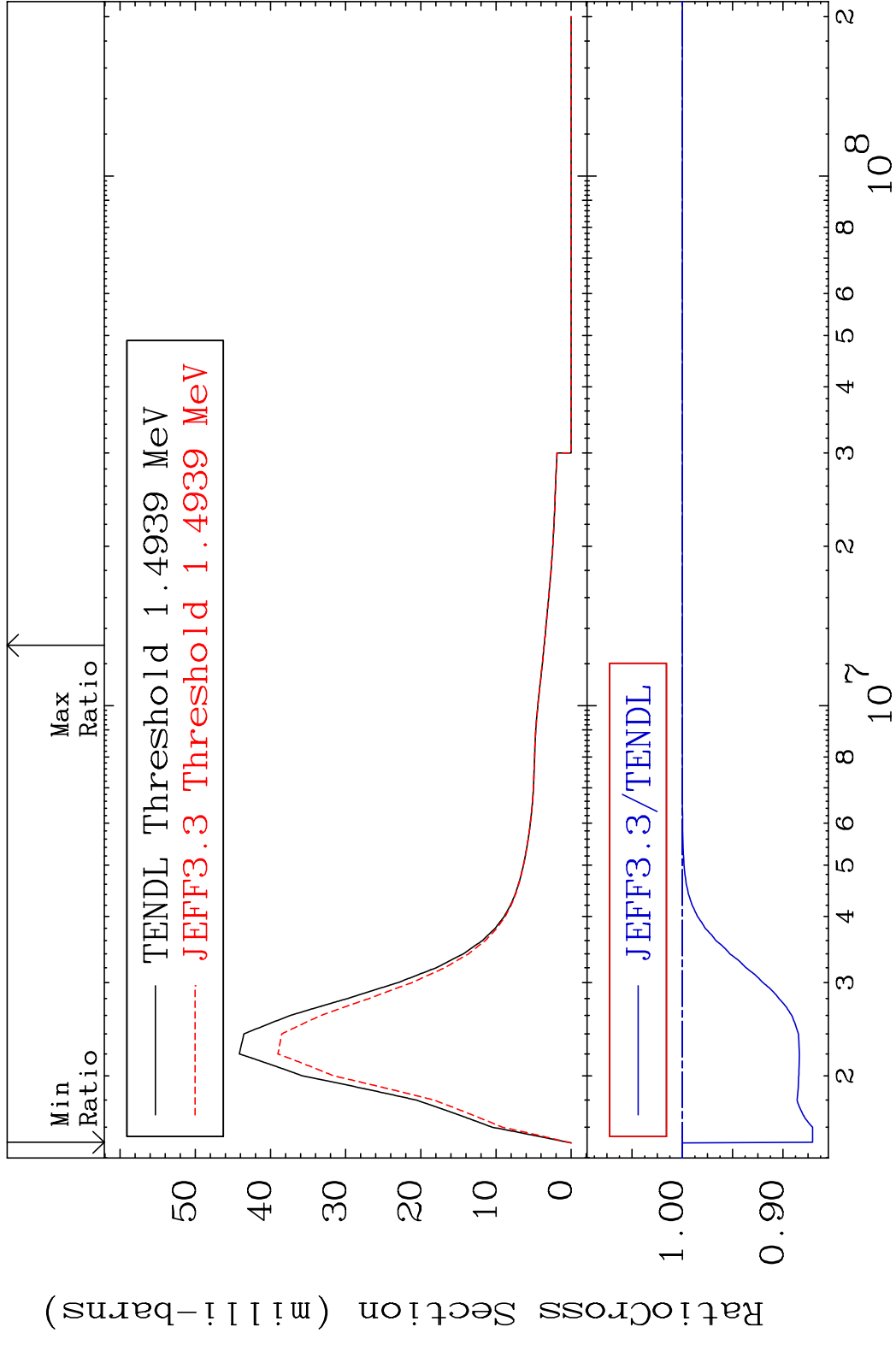
MAT 6416 MT= 64 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



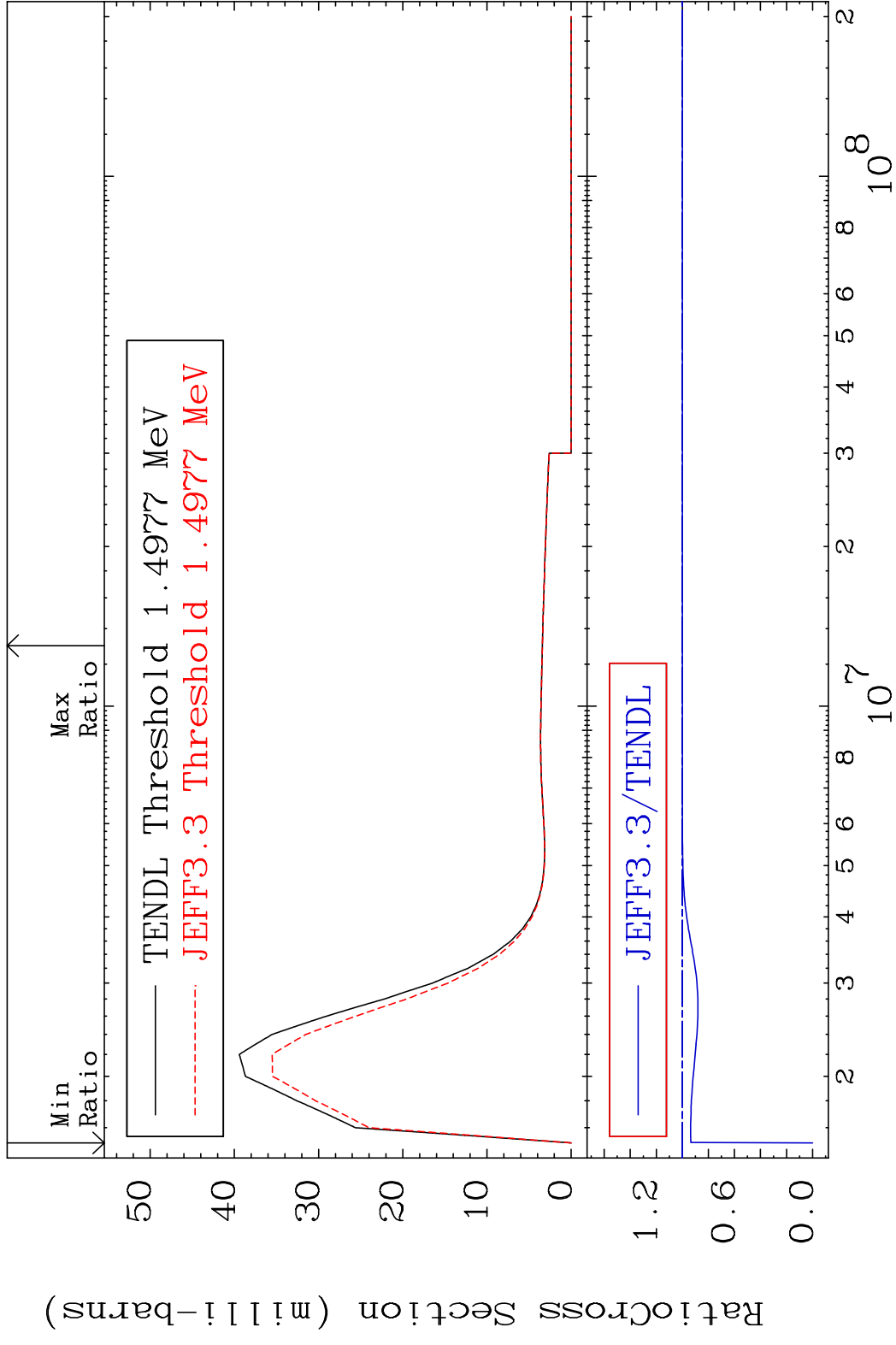
MAT 6416 MT= 65 (n,n') Level 64-Gd-149  
 Cross Section -13.12 To 0.000 %



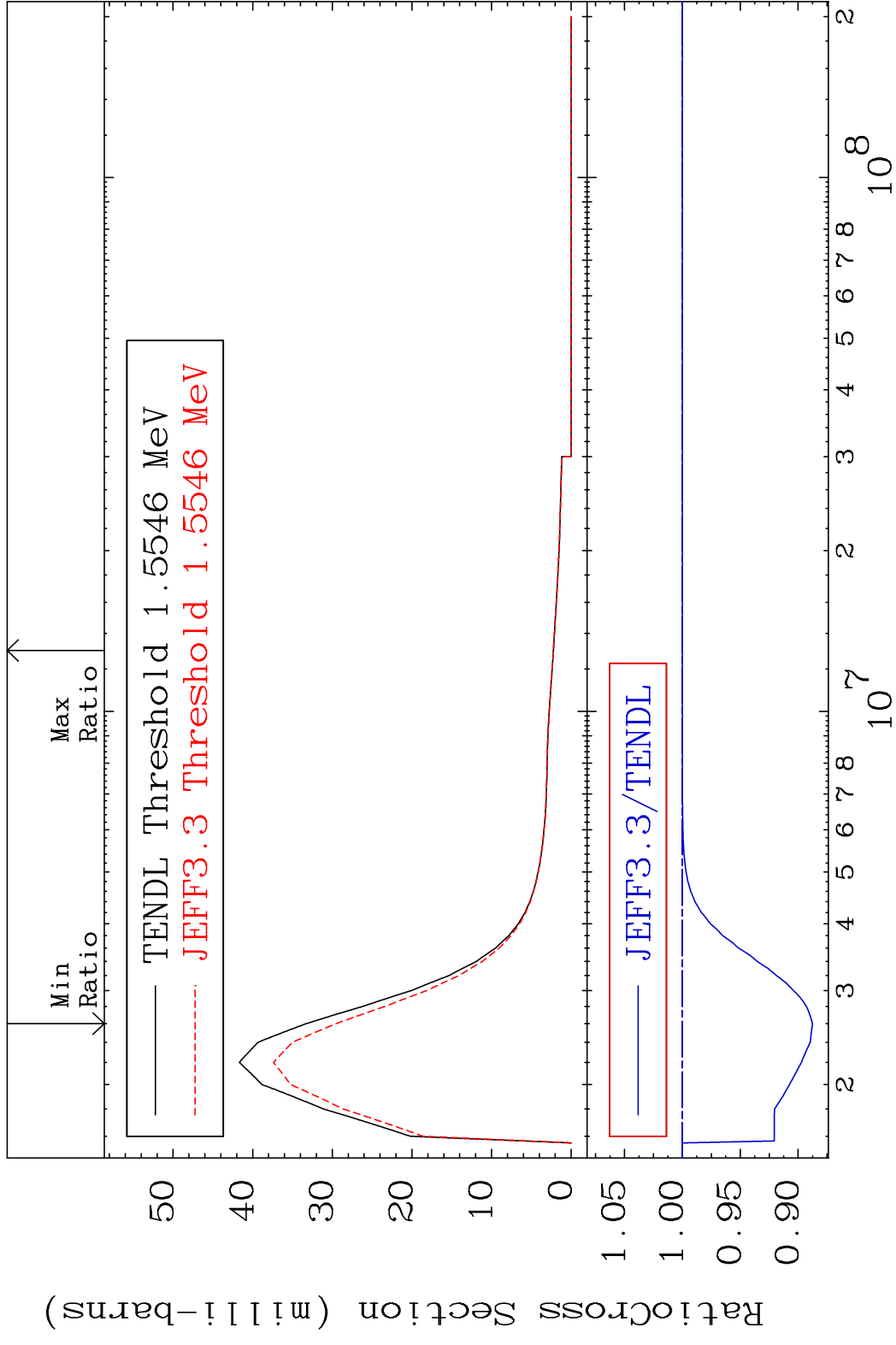
MAT 6416 MT= 66 (n,n') Level 64-Gd-149  
 Cross Section -12.95 To 0.000 %



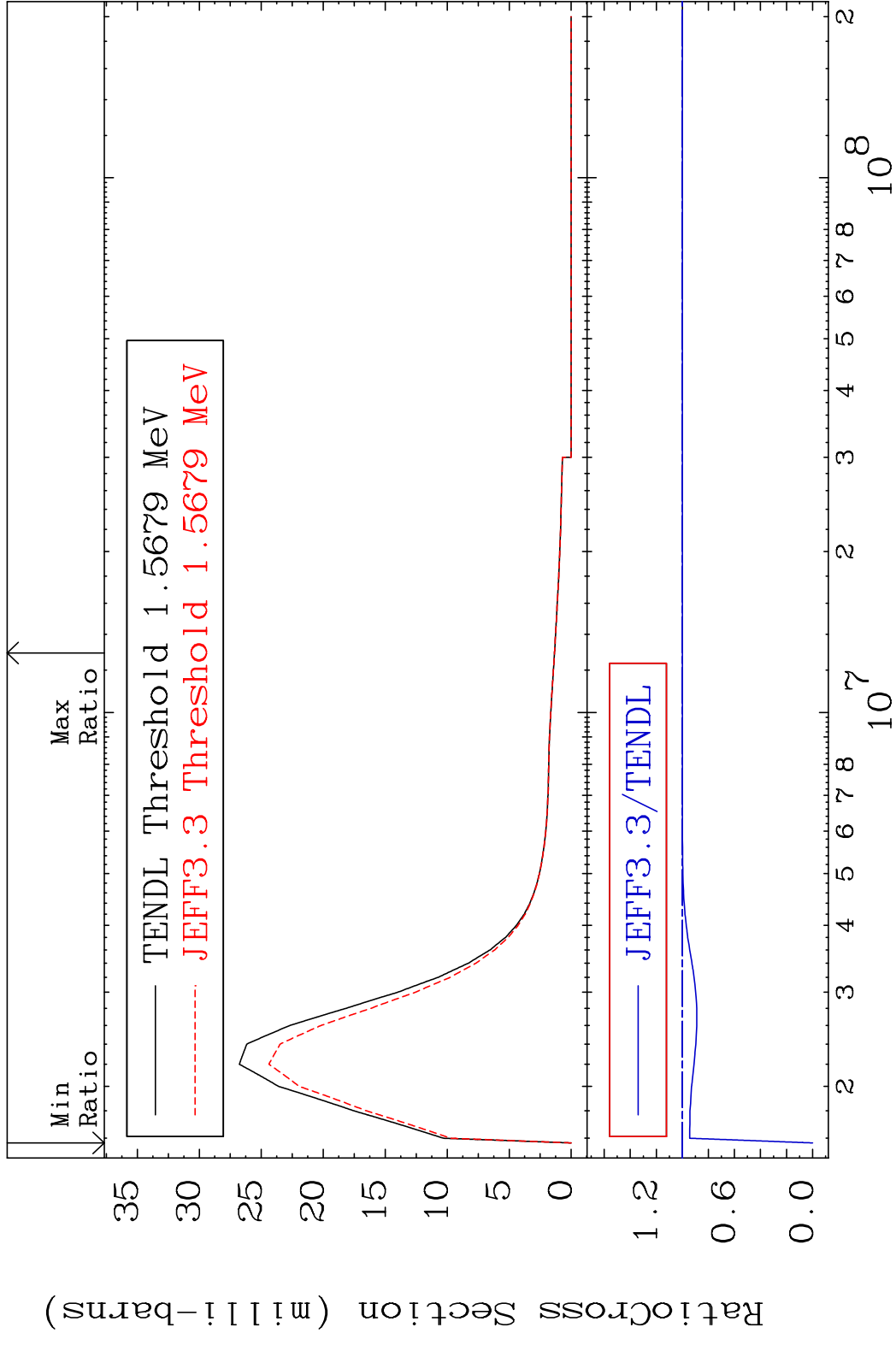
MAT 6416 MT= 67 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



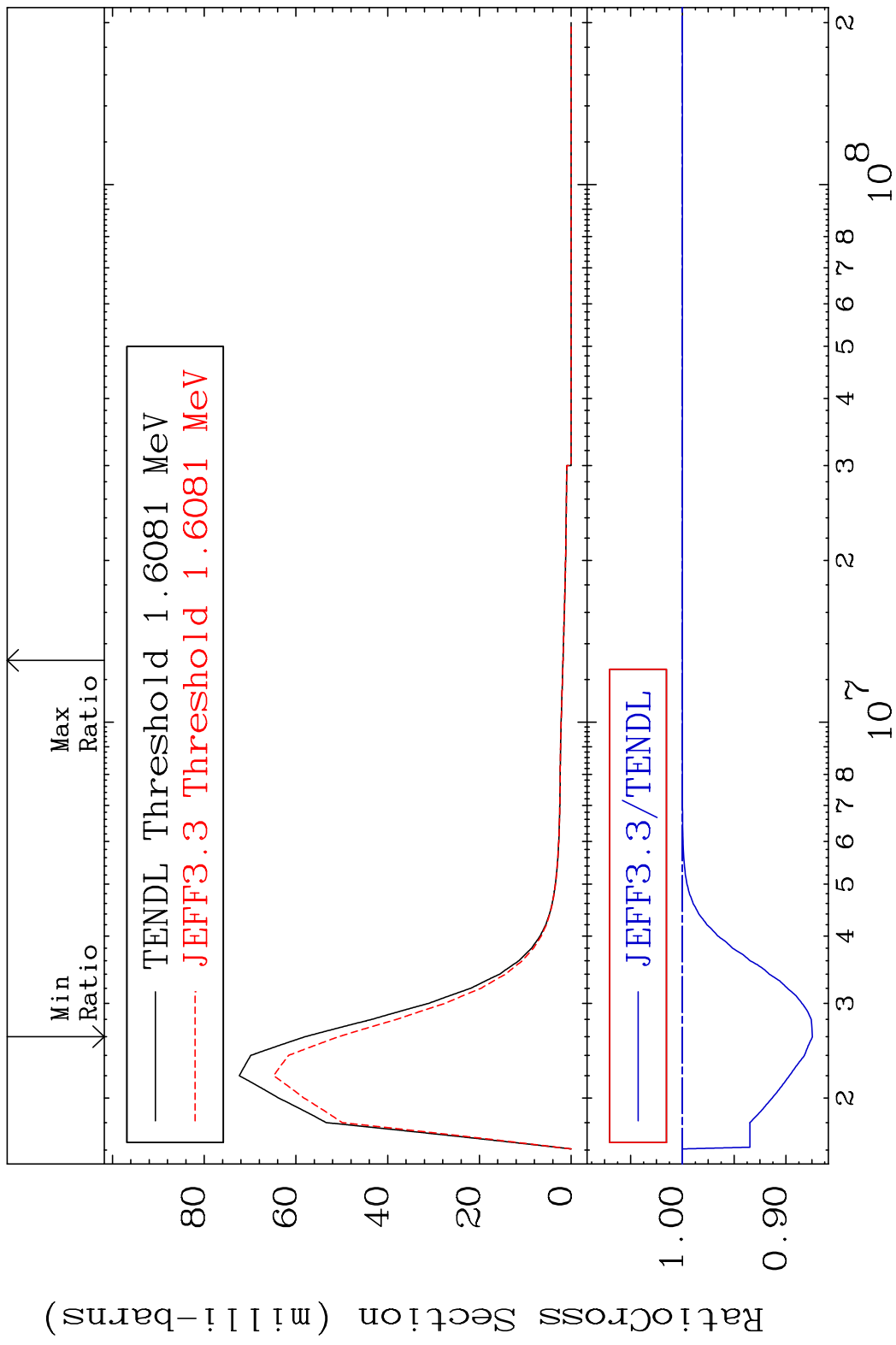
MAT 6416 MT= 68 (n, n') Level 64-Gd-149  
 Cross Section -11.25 To 0.000 %



MAT 6416 MT= 69 (n, n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %

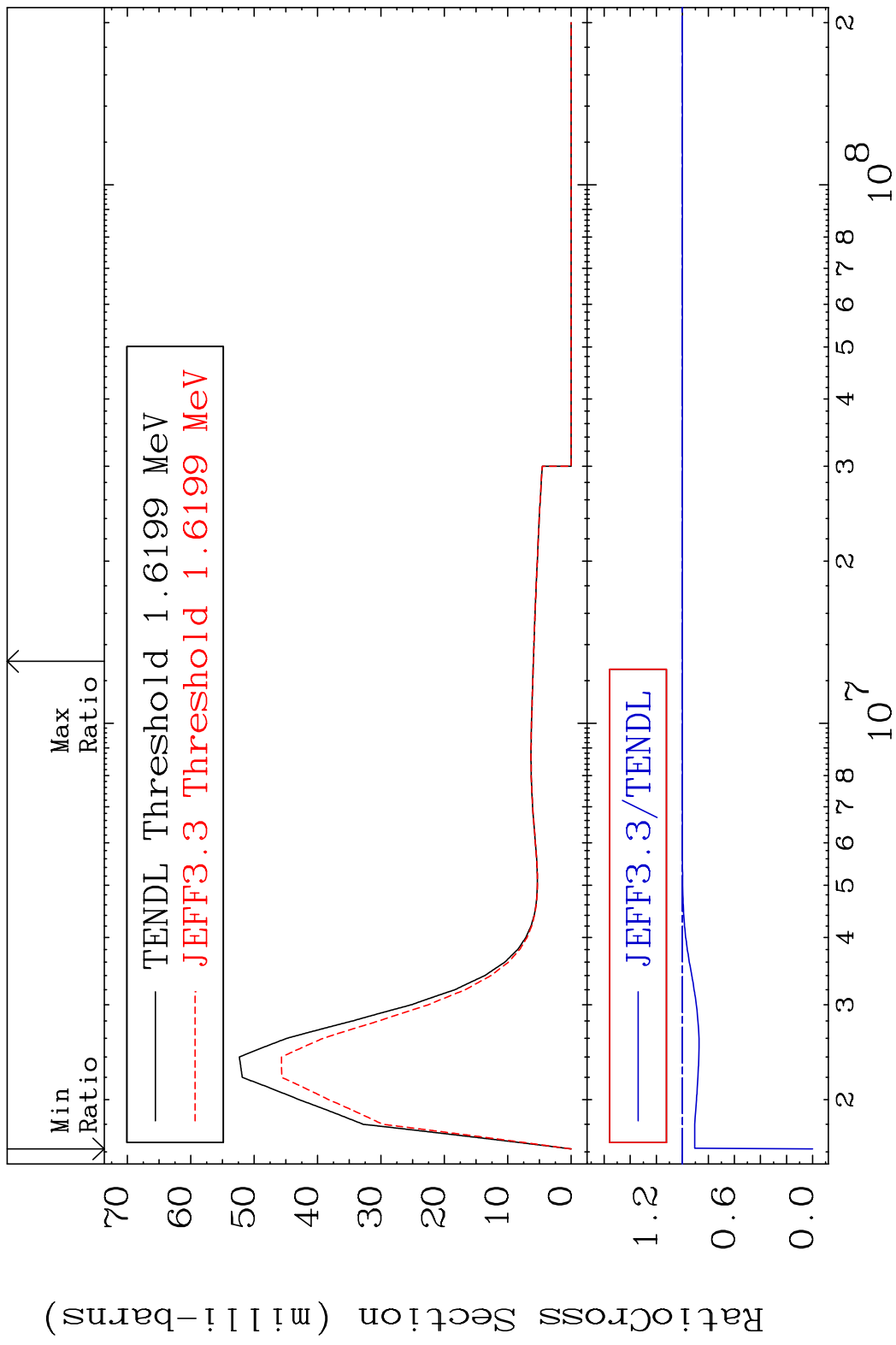


MAT 6416 MT= 70 (n, n') Level 64-Gd-149  
 Cross Section -12.57 To 0.000 %

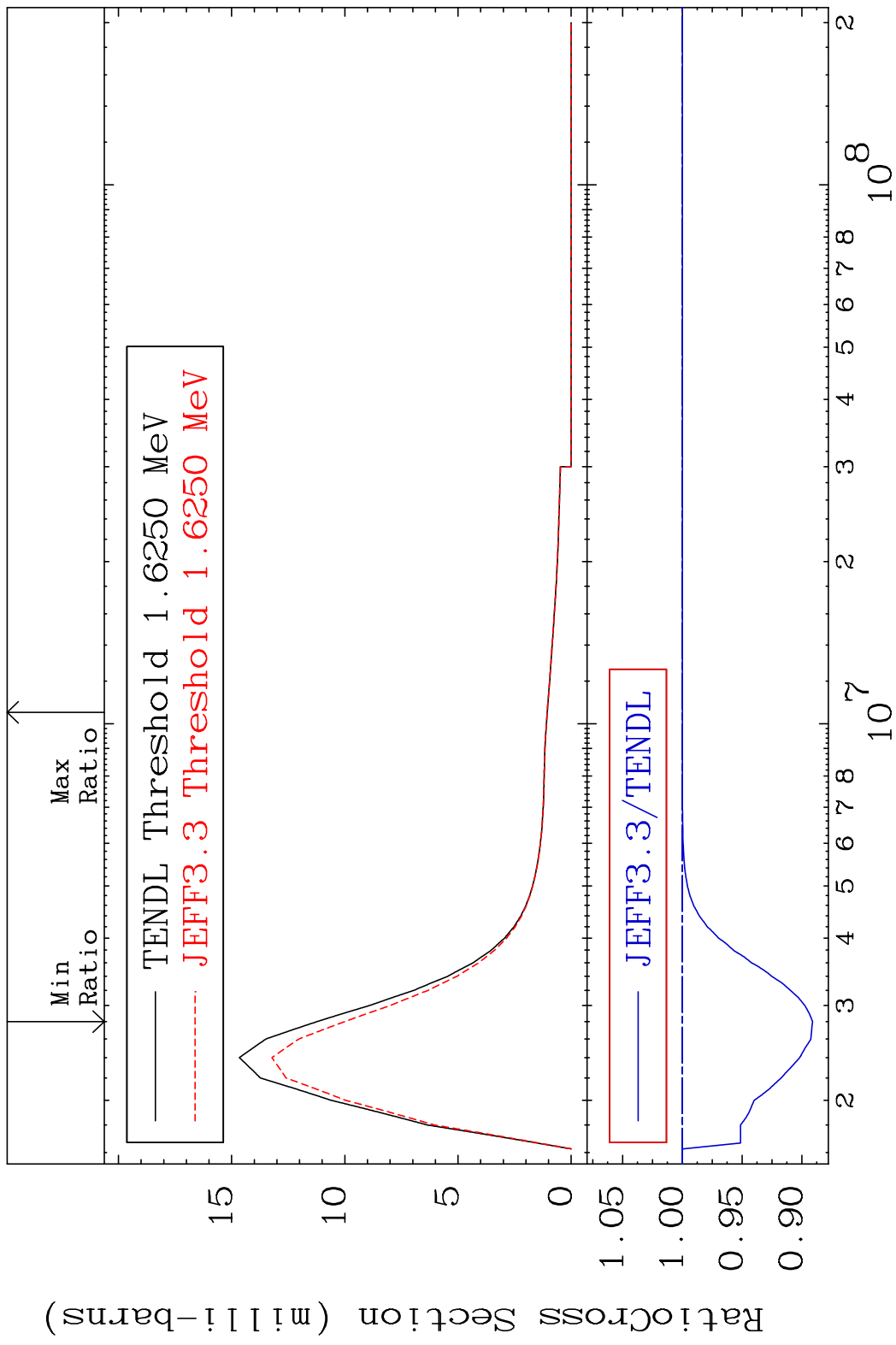


40 Incident Energy (eV) 64-Gd-149

MAT 6416 MT= 71 (n,n') Level 64-Gd-149  
 Cross Section -100.0 To 0.000 %



MAT 6416 MT= 72 (n,n') Level 64-Gd-149  
 Cross Section -10.90 To 0.000 %

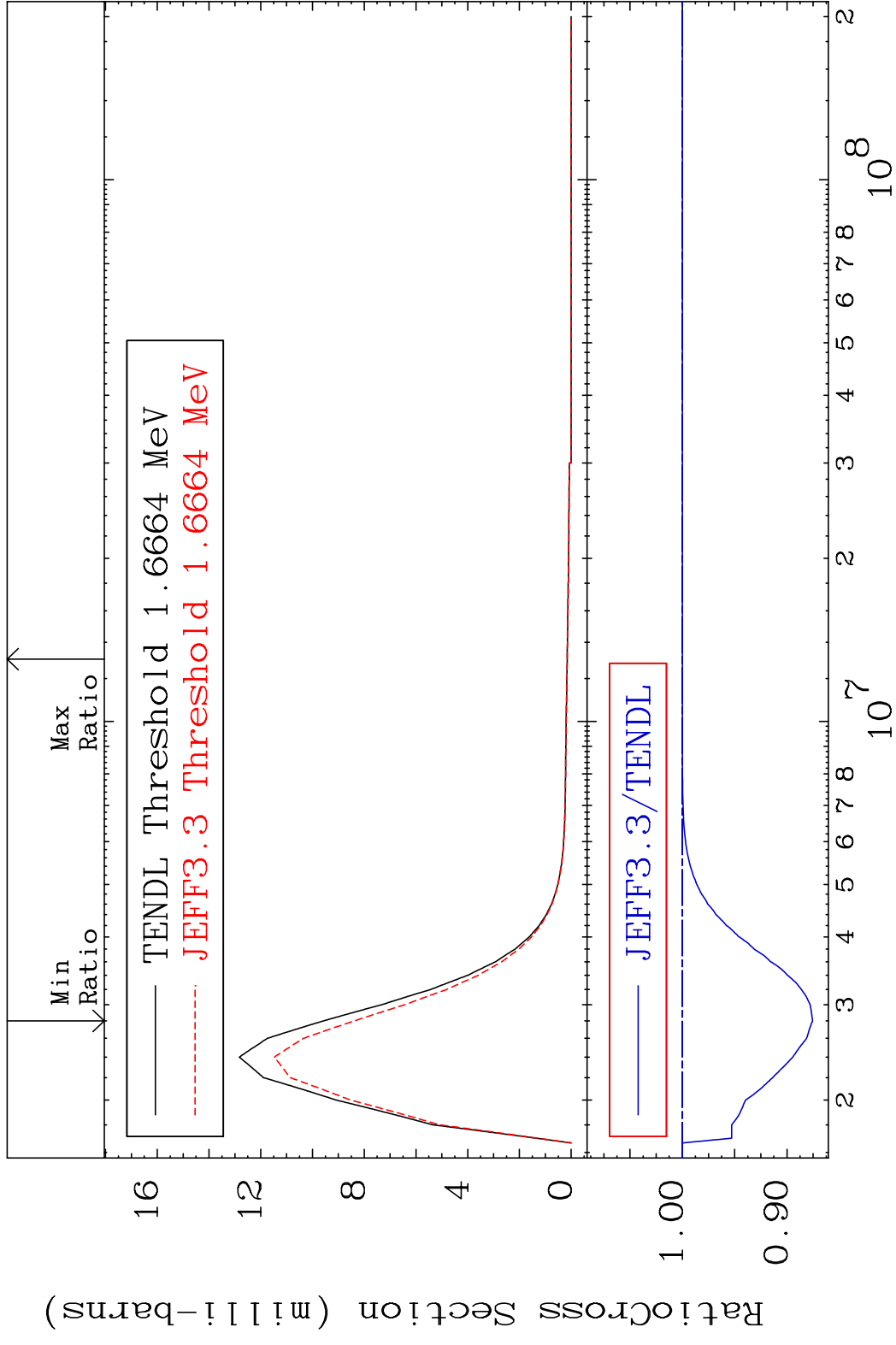


MAT 6416

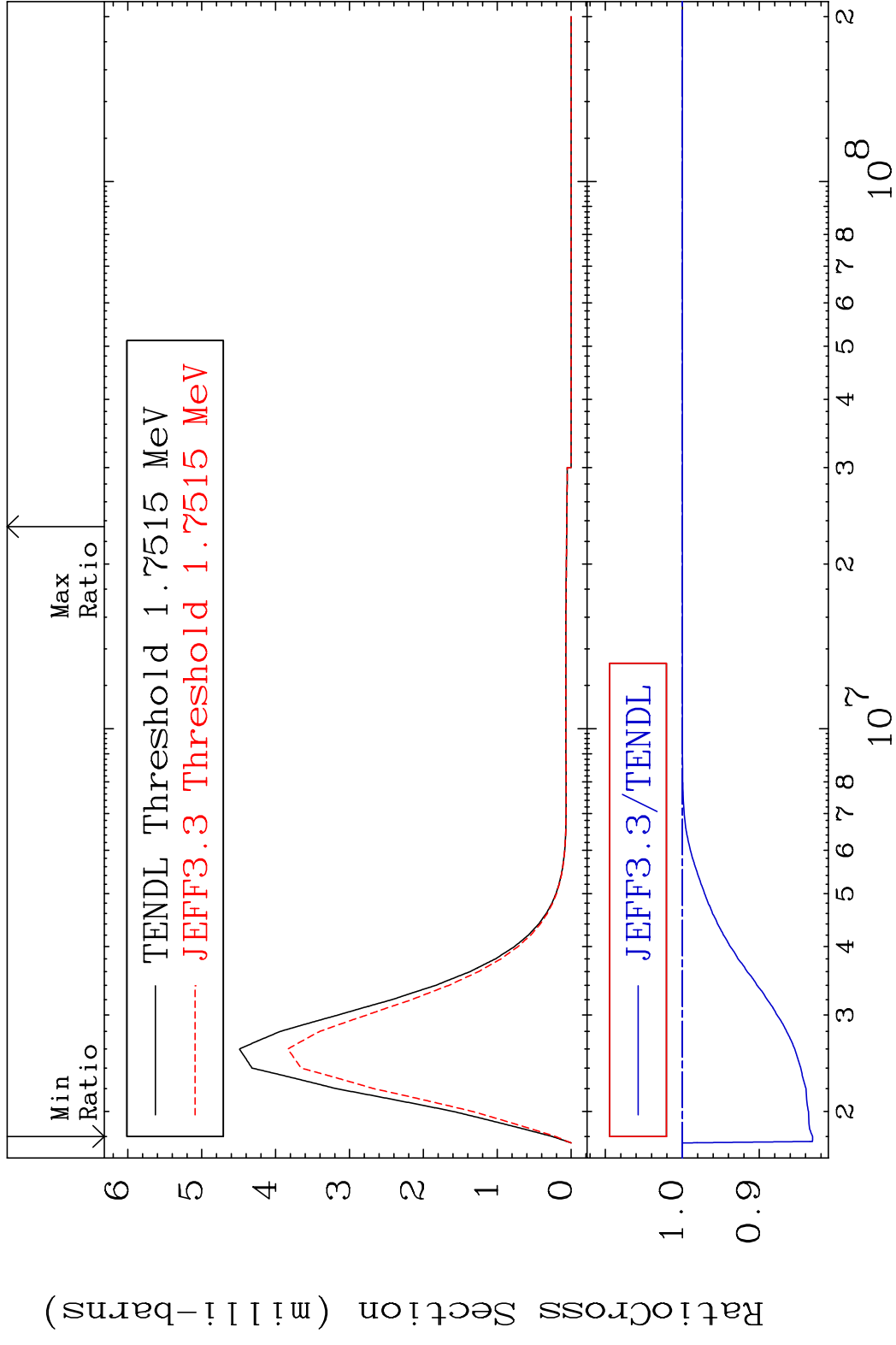
MT= 73 (n, n') Level

64-Gd-149

Cross Section -12.44 To 0.000 %



MAT 6416 MT= 74 (n, n') Level 64-Gd-149  
 Cross Section -16.91 To 0.000 %

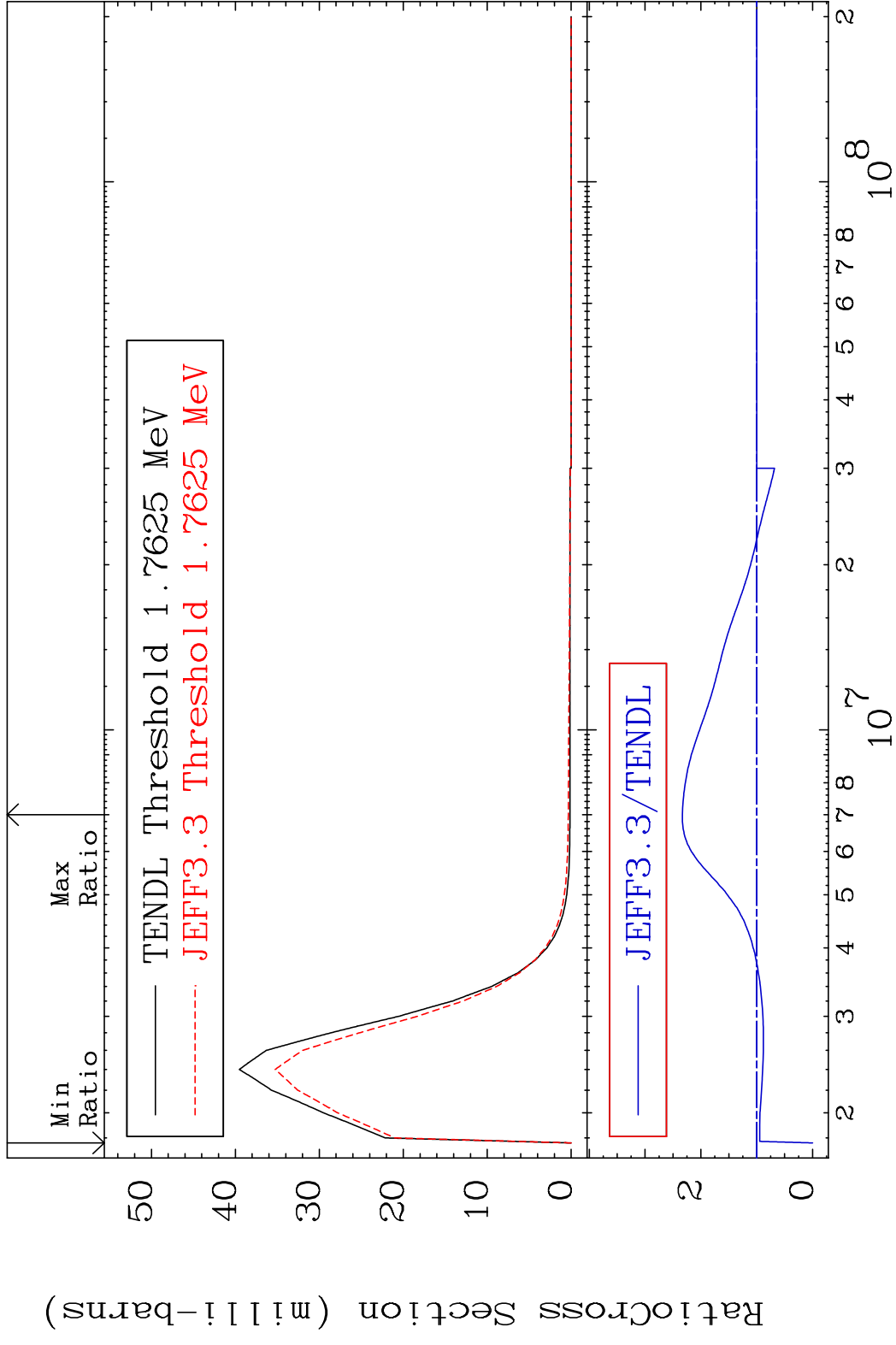


MAT 6416

MT= 75 (n, n') Level

64-Gd-149

Cross Section -100.0 To 133.3 %

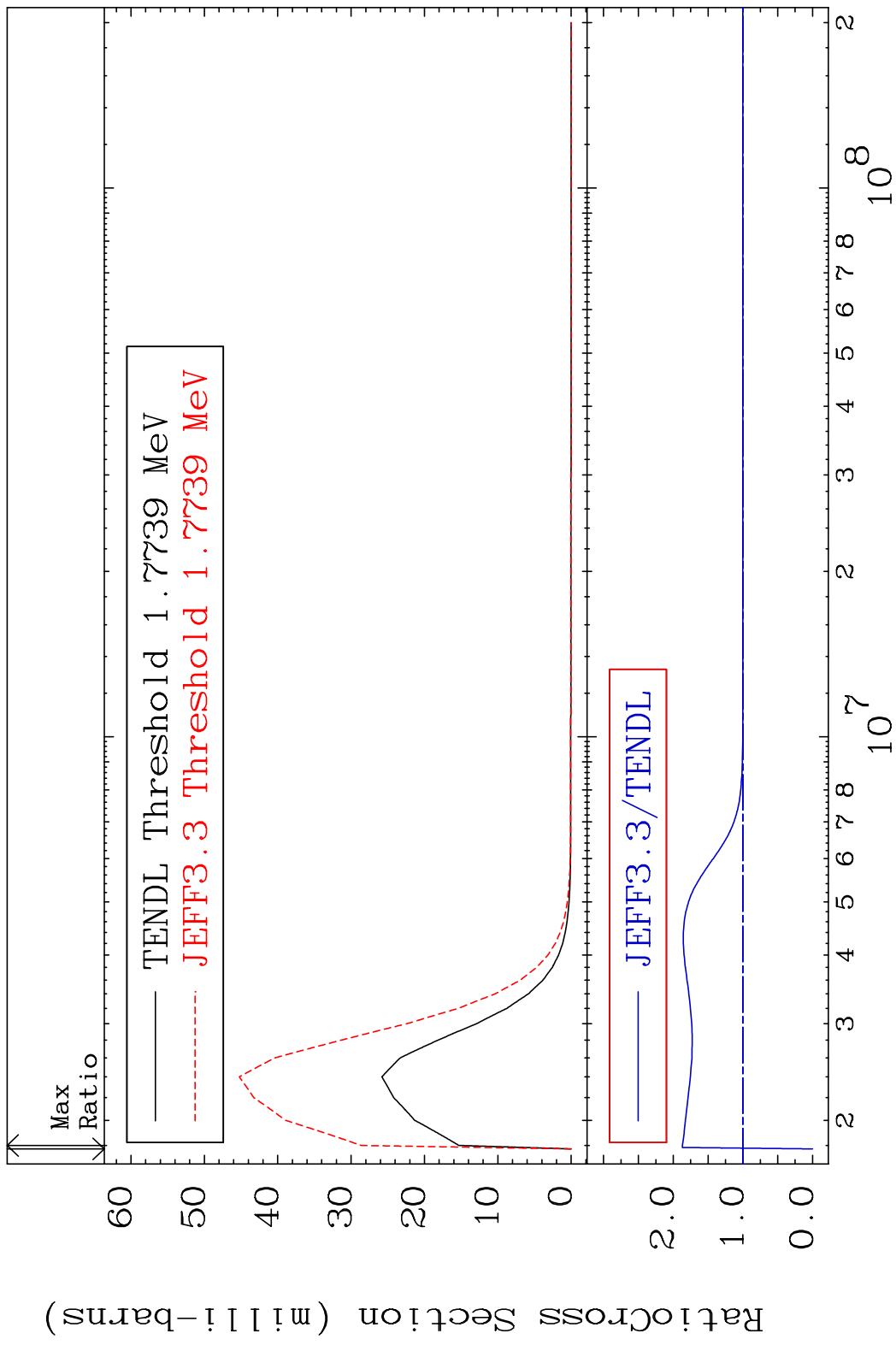


45

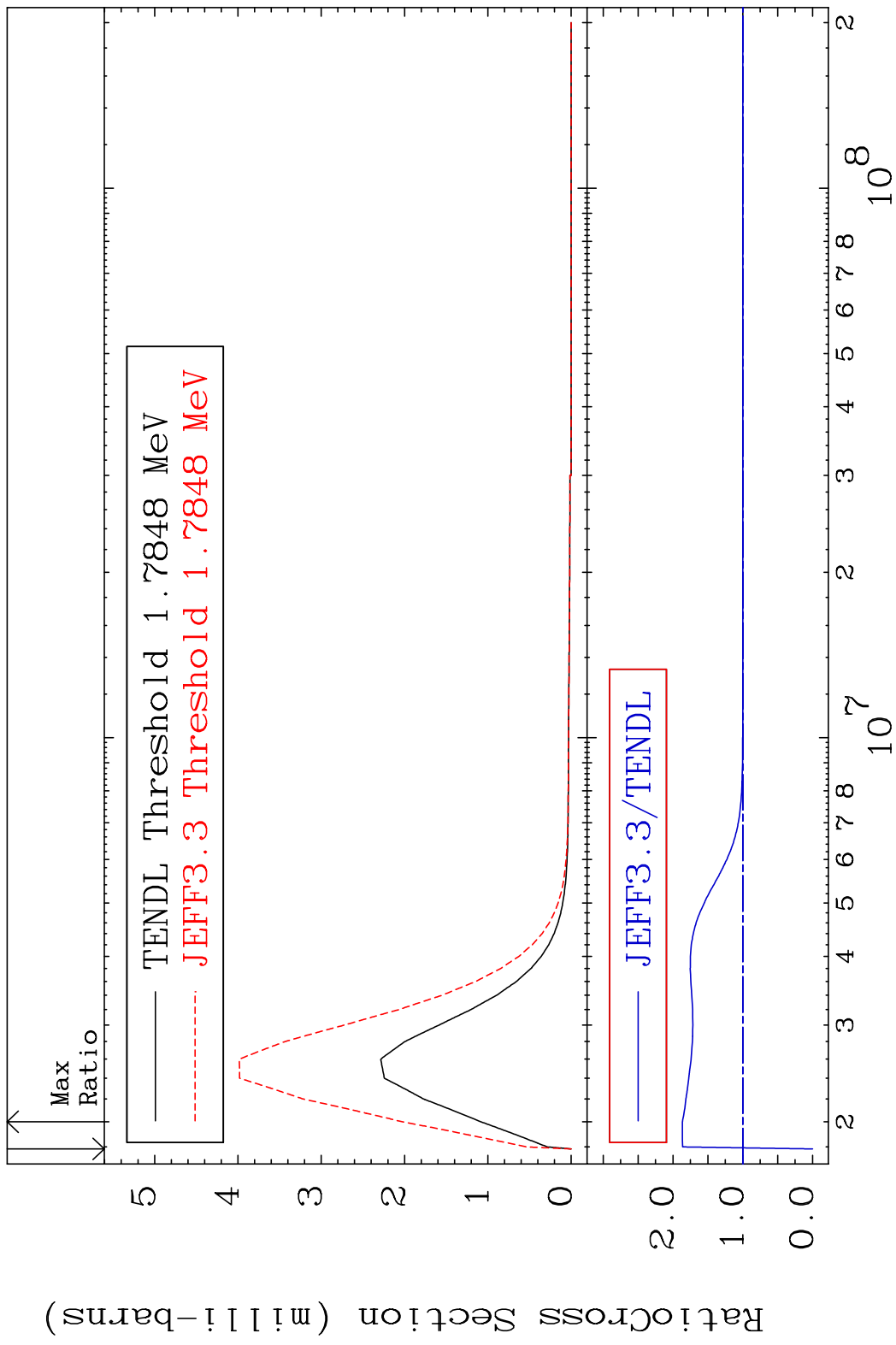
Incident Energy (eV)

64-Gd-149

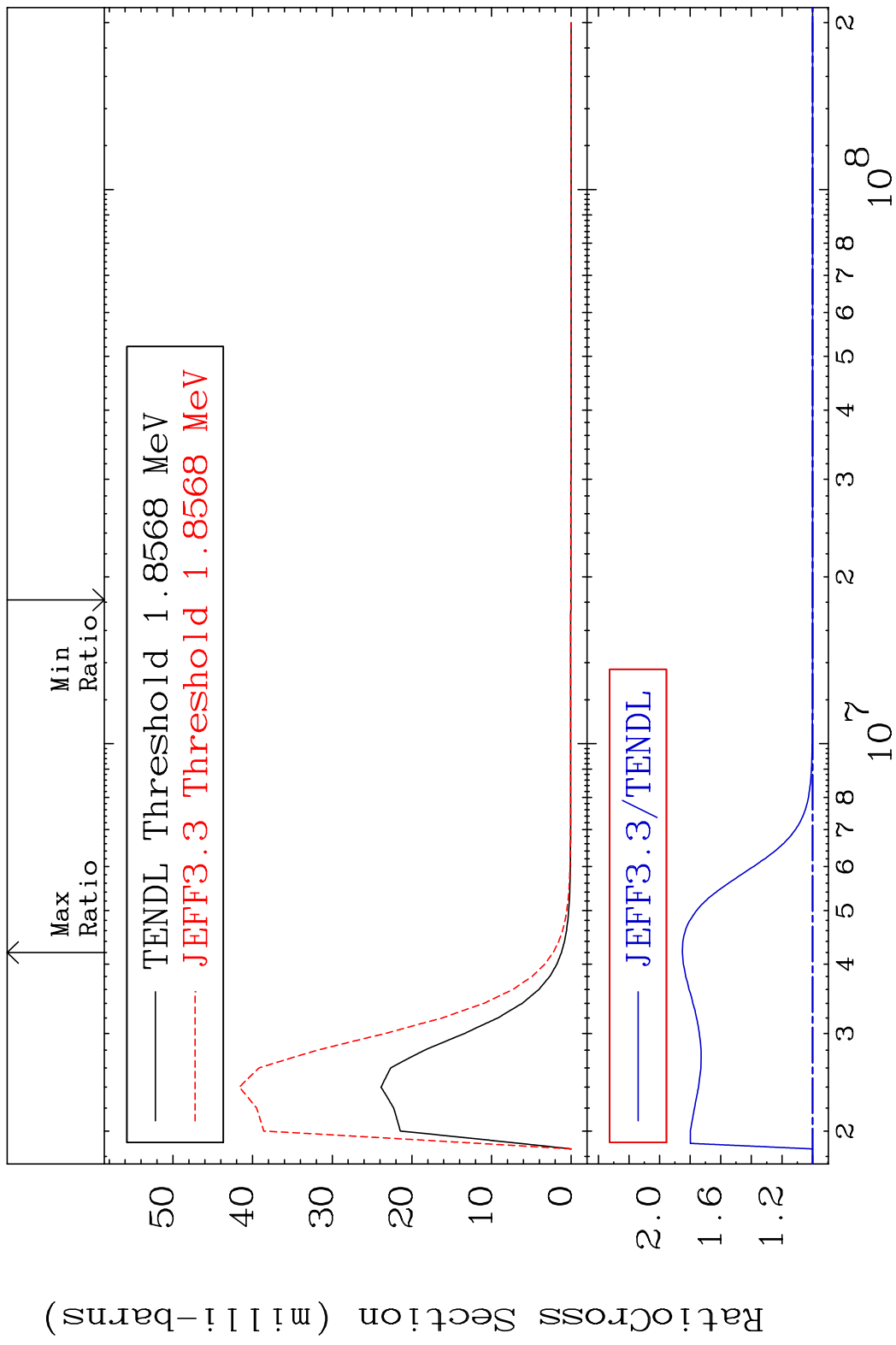
MAT 6416 MT= 76 (n,n') Level 64-Gd-149  
 Cross Section -100.0 To 86.91 %



MAT 6416      MT= 77 (n,n') Level      64-Gd-149  
 Cross Section    -100.0 To 86.62 %



MAT 6416 MT= 78 (n,n') Level 64-Gd-149  
 Cross Section 0.000 To 85.12 %



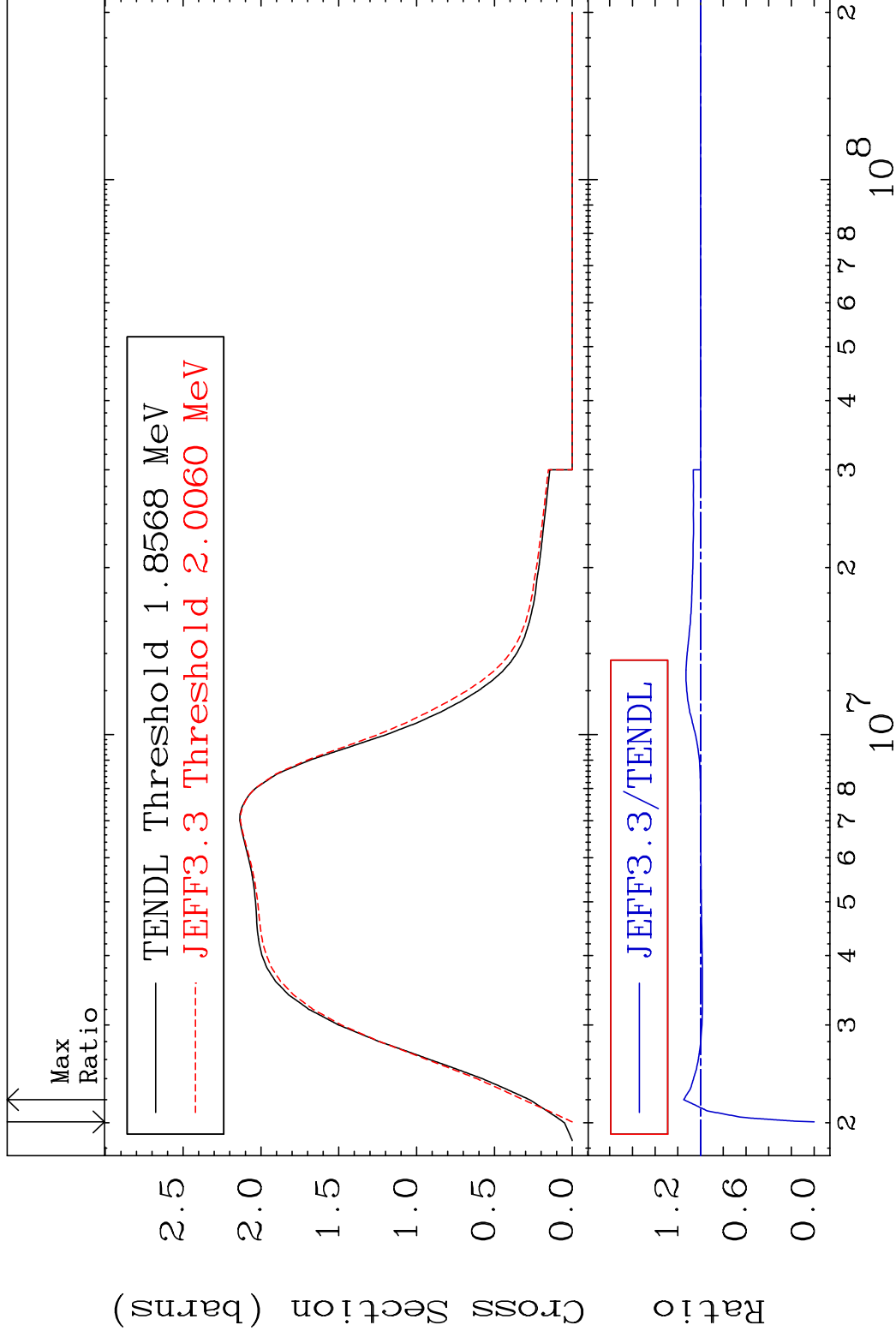
MAT 6416

(n,n') Continuum

64-Gd-149

Cross Section

-100.0 To 14.89 %



49

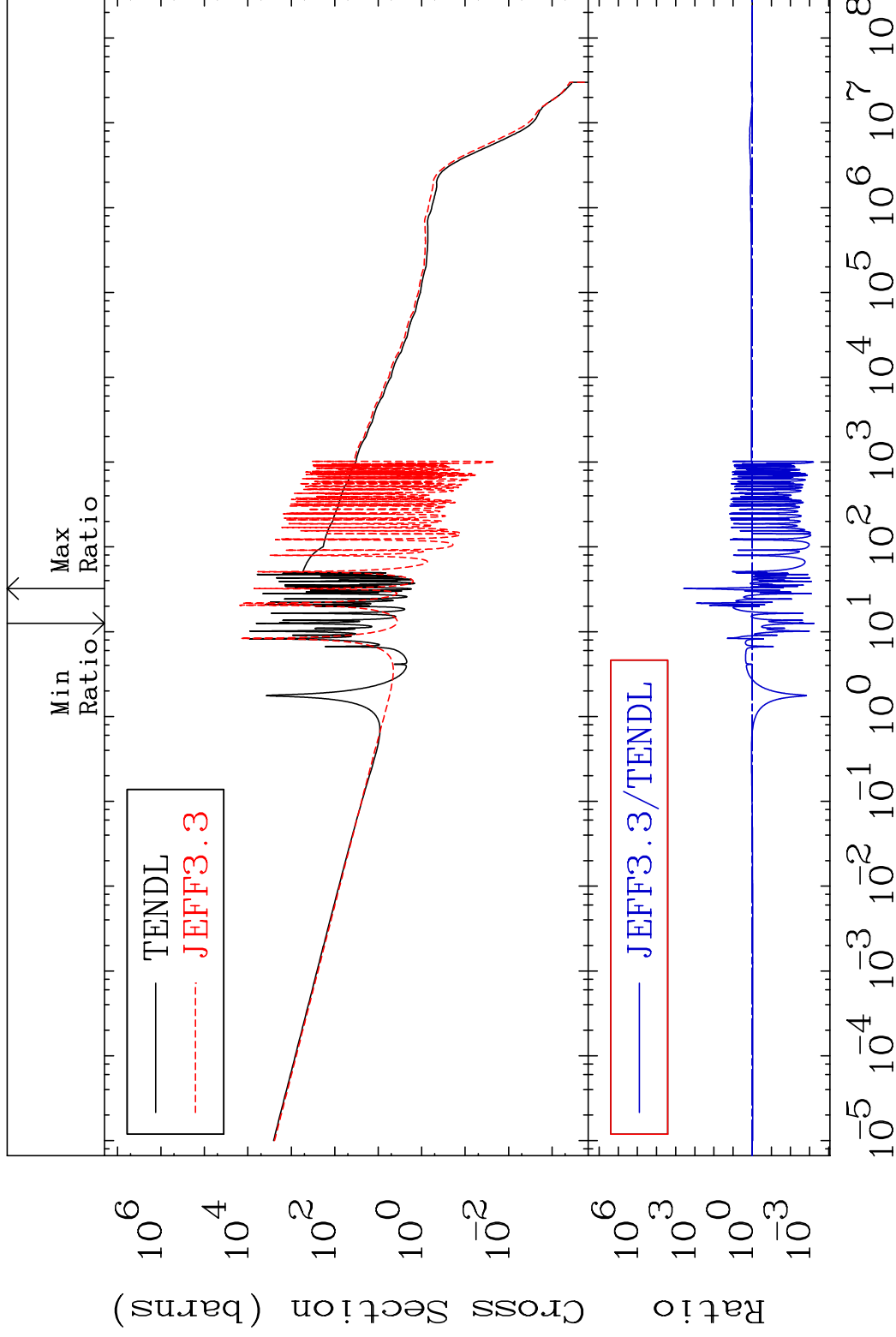
Incident Energy (eV)

64-Gd-149

MAT 6416

(n,  $\gamma$ )  
Cross Section -99.94 To 9999. %

64-Gd-149



50

Incident Energy (eV)

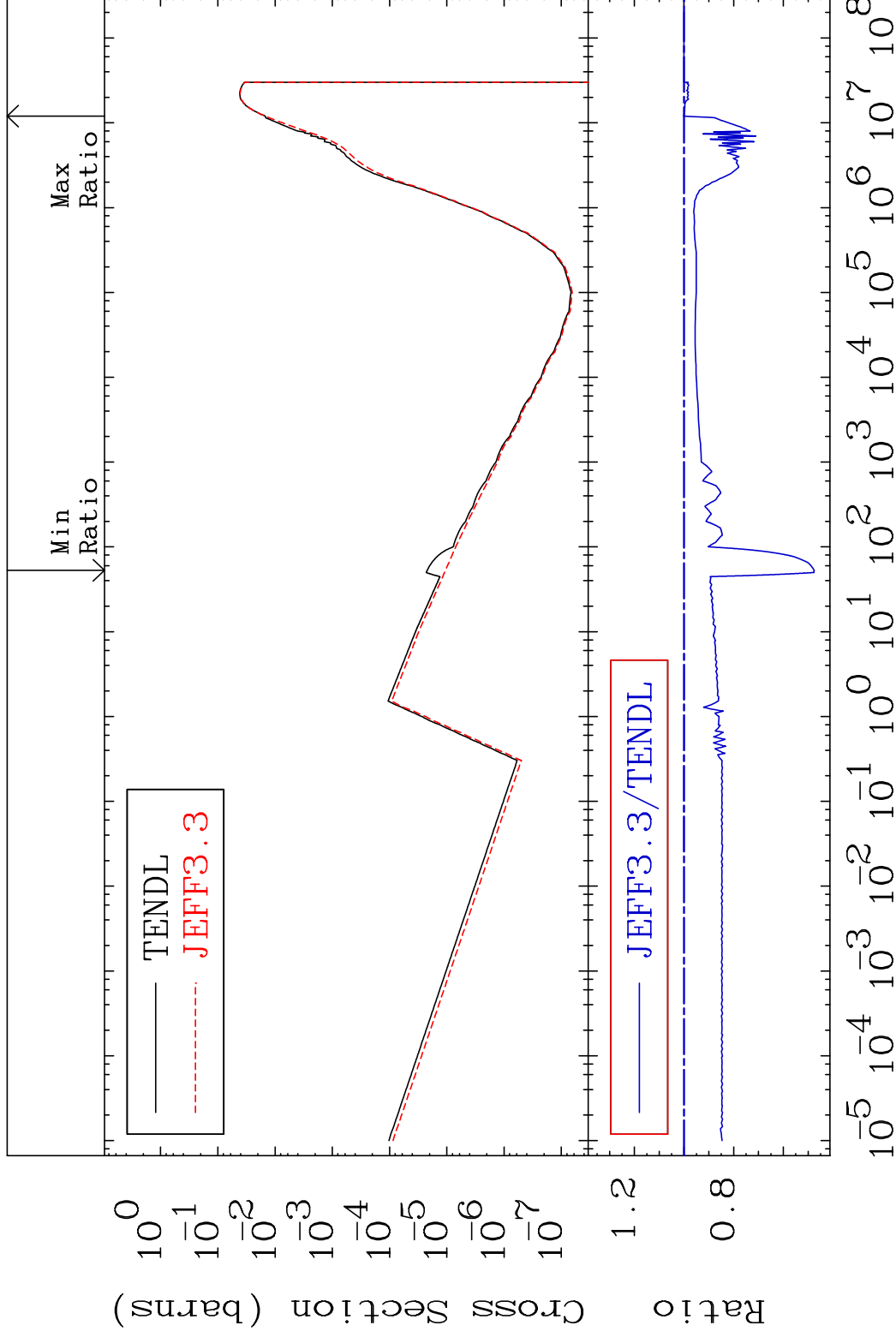
64-Gd-149

MAT 6416

(n, p)

64-Gd-149

Cross Section -52.40 To 0.149 %



51

Incident Energy (eV)

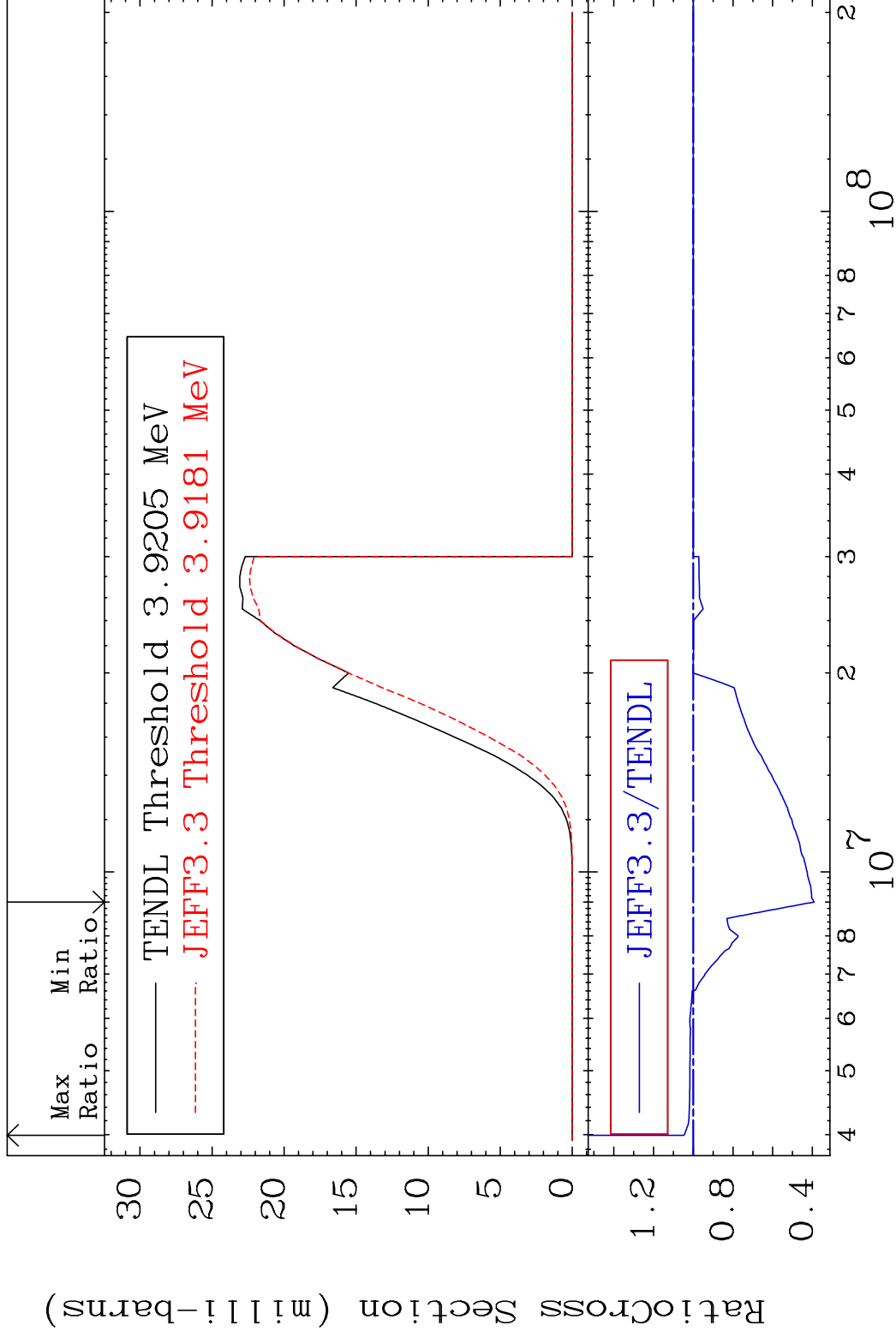
64-Gd-149

MAT 6416

(n, d)

64-Gd-149

Cross Section -60.86 To 4.817 %



52

Incident Energy (eV)

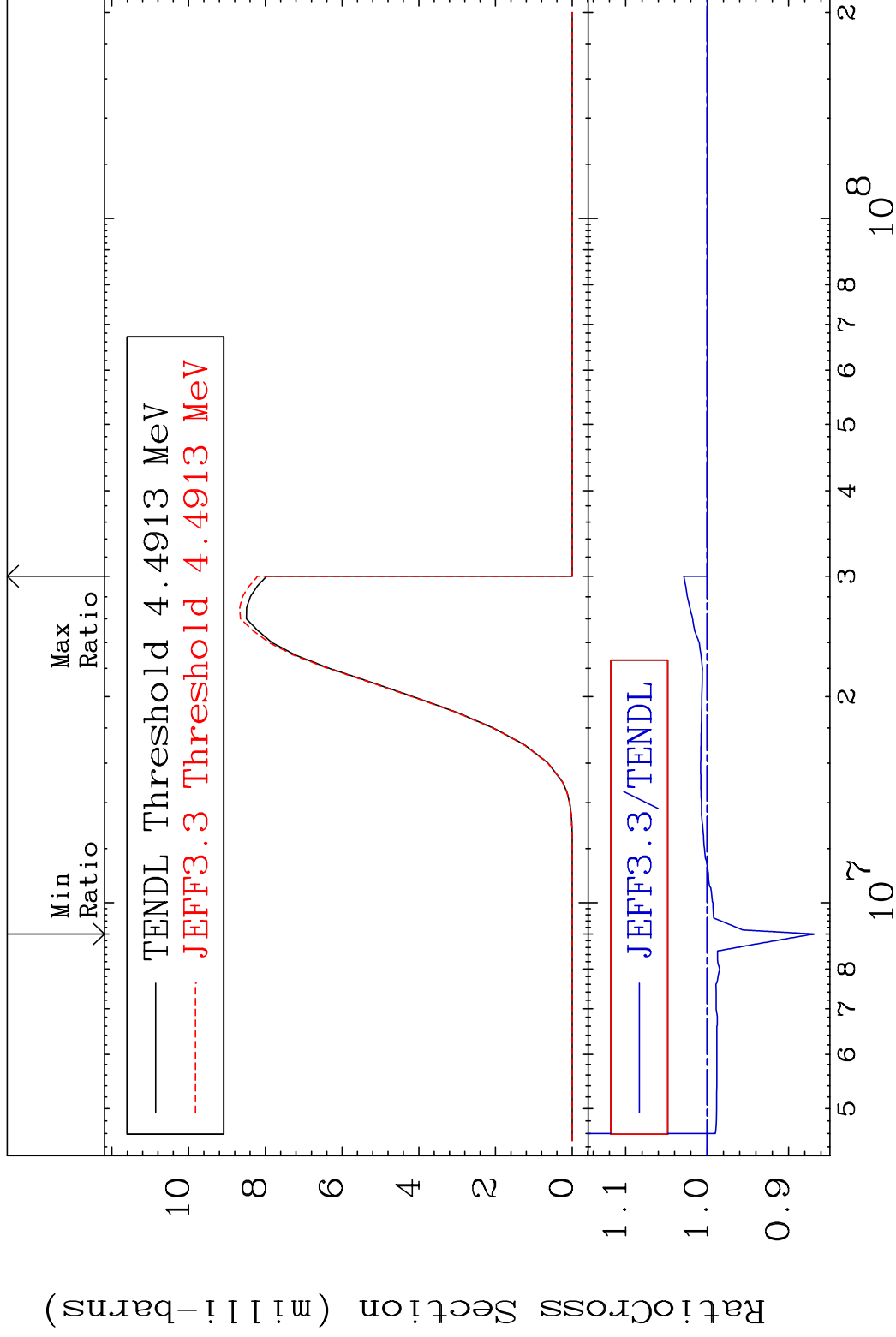
64-Gd-149

MAT 6416

(n, t)

64-Gd-149

Cross Section -13.14 To 2.885 %

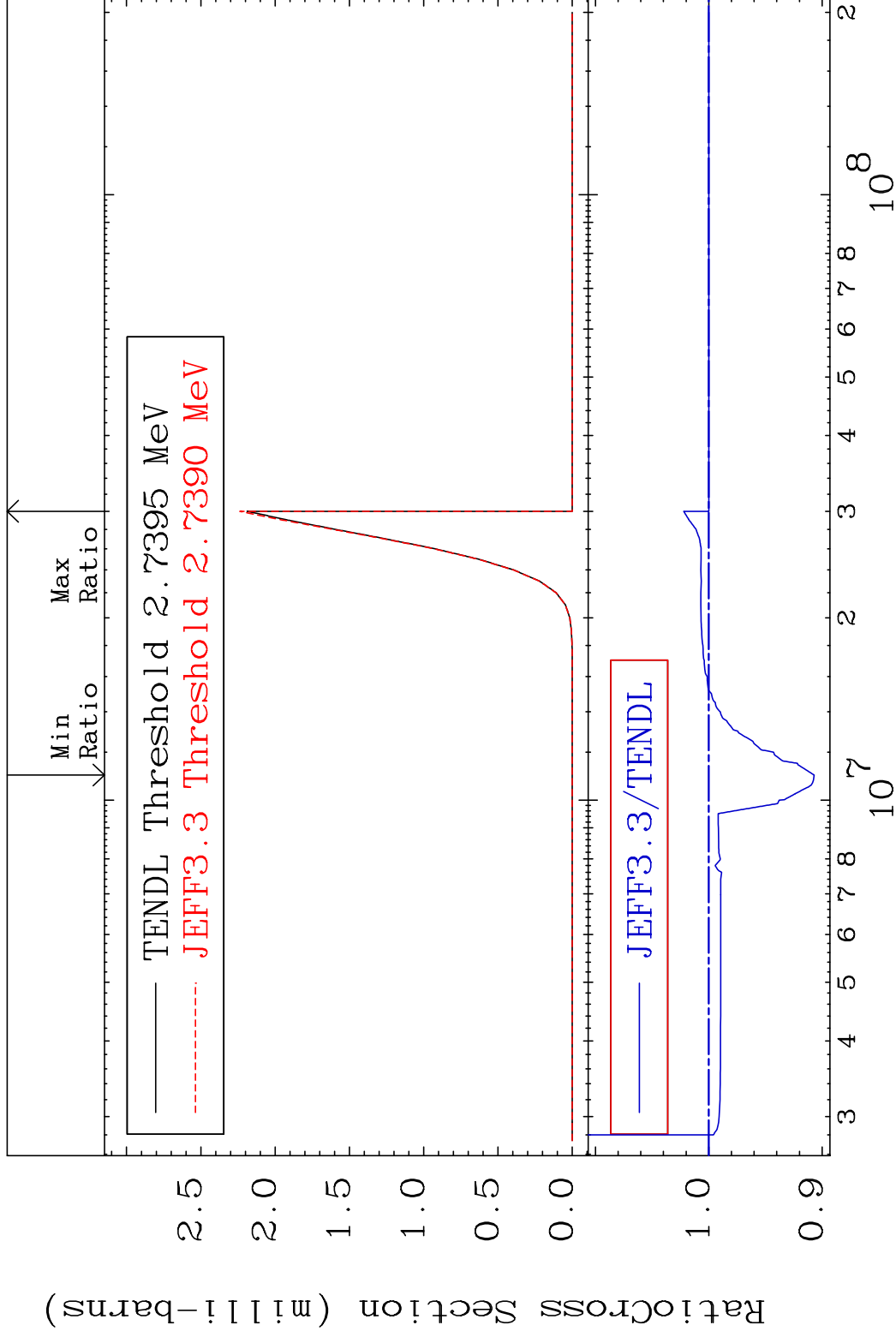


MAT 6416

(n, He-3)

64-Gd-149

Cross Section -9.294 To 2.219 %

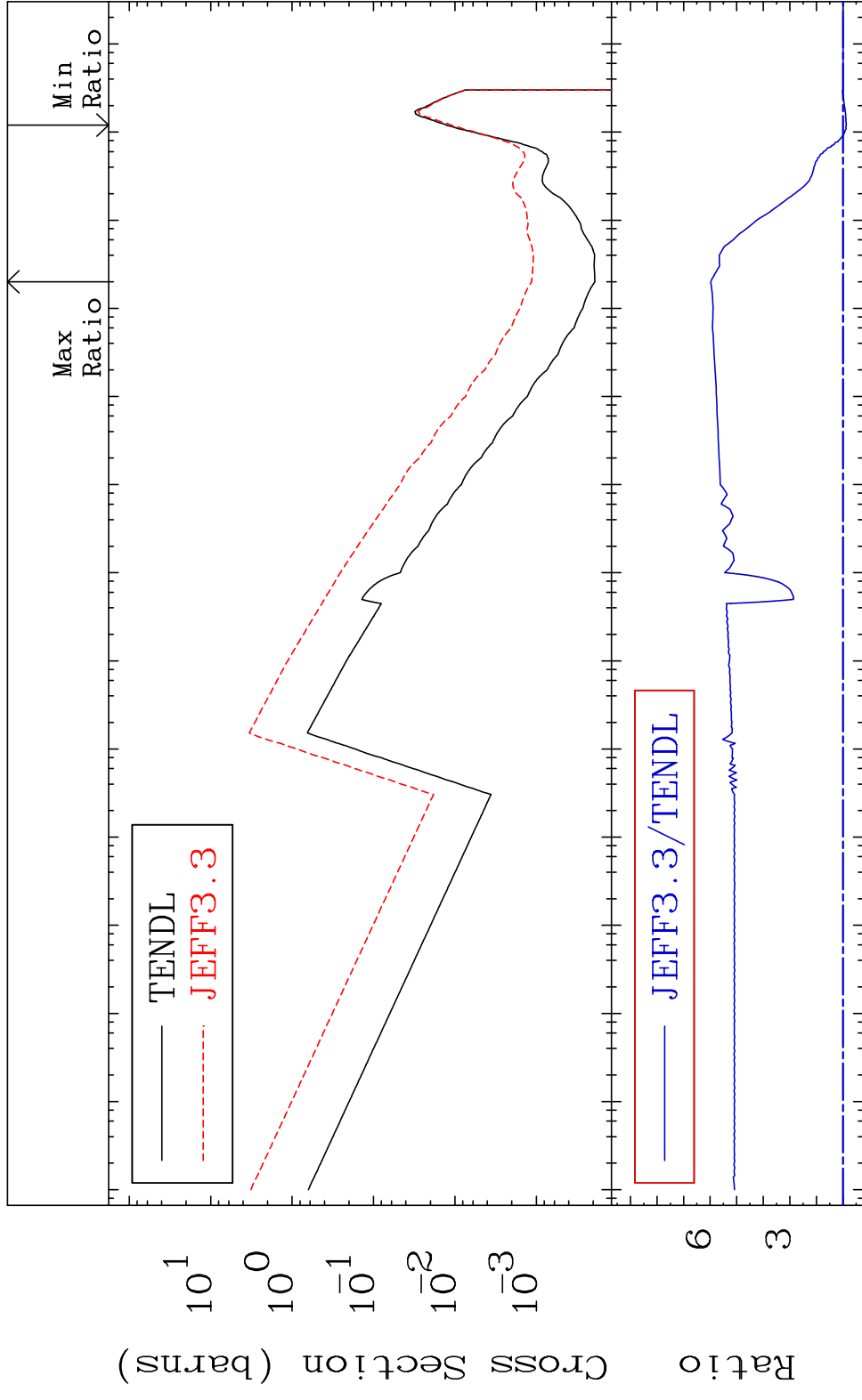


MAT 6416

64-Gd-149

(n,  $\alpha$ )

Cross Section -12.76 To 497.8 %



Ratio

55

Incident Energy (eV)

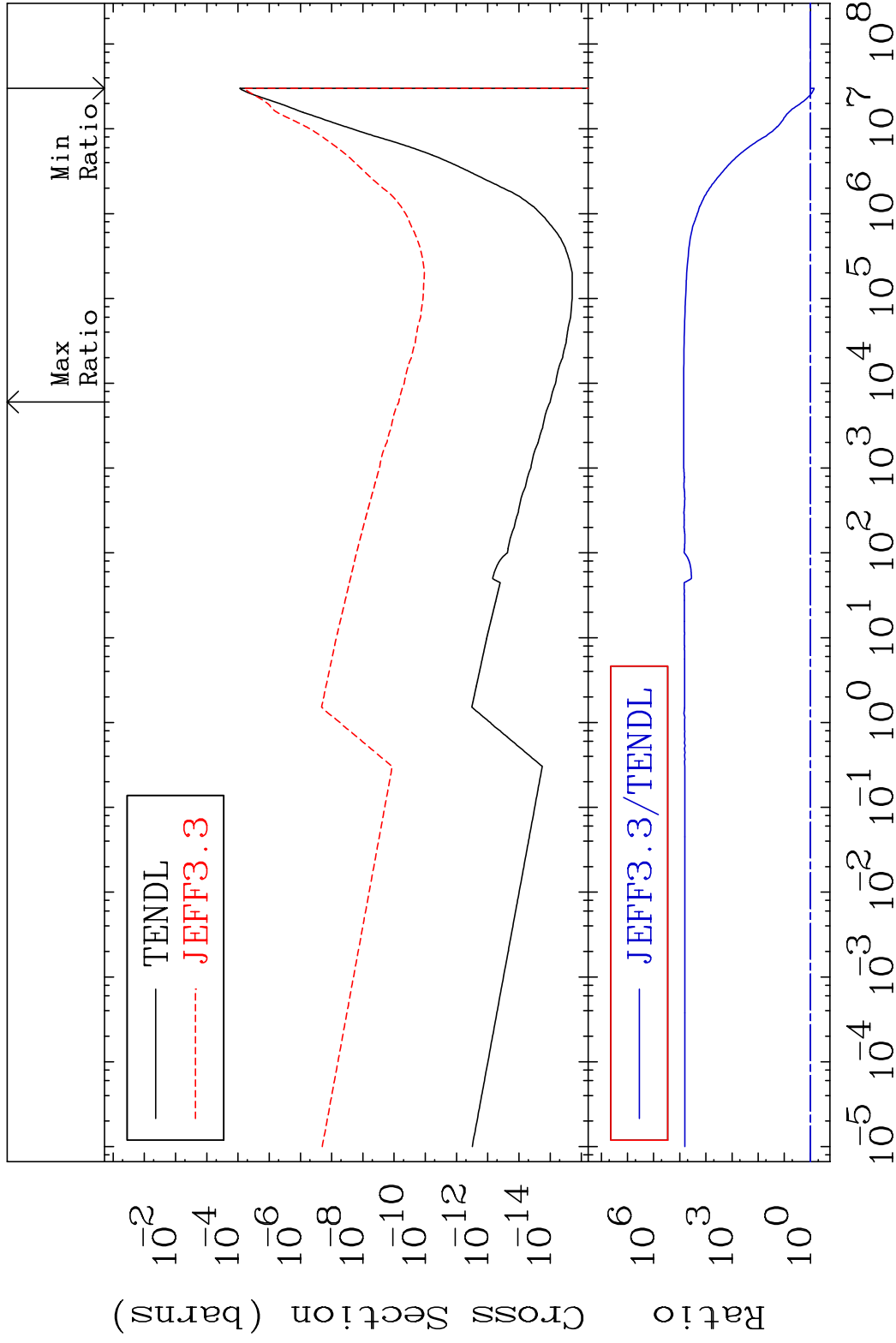
64-Gd-149

MAT 6416

(n,2α)

64-Gd-149

Cross Section -27.63 To 9999. %



56

Incident Energy (eV)

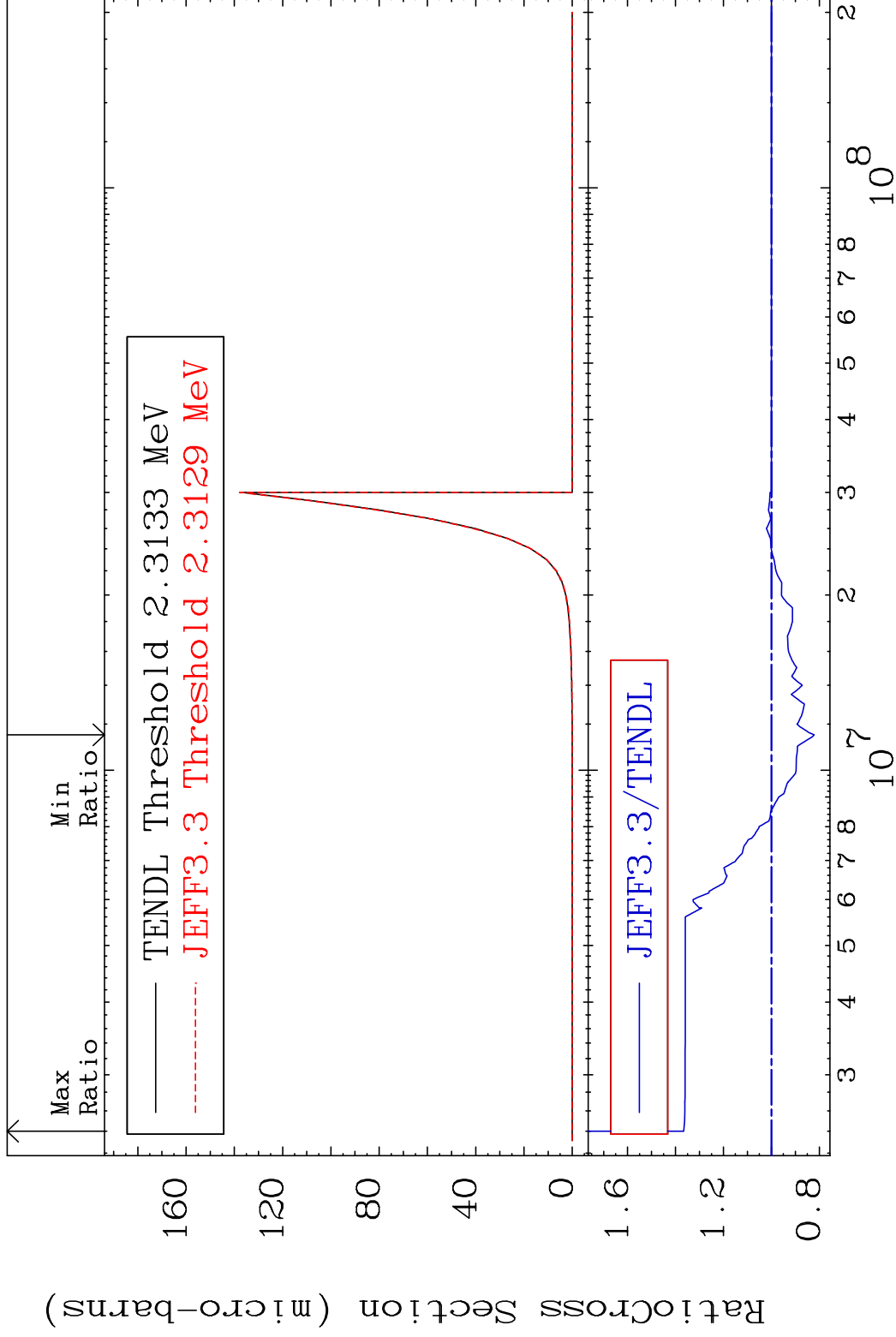
64-Gd-149

MAT 6416

(n,2p)

64-Gd-149

Cross Section -17.83 To 36.60 %



57

Incident Energy (eV)

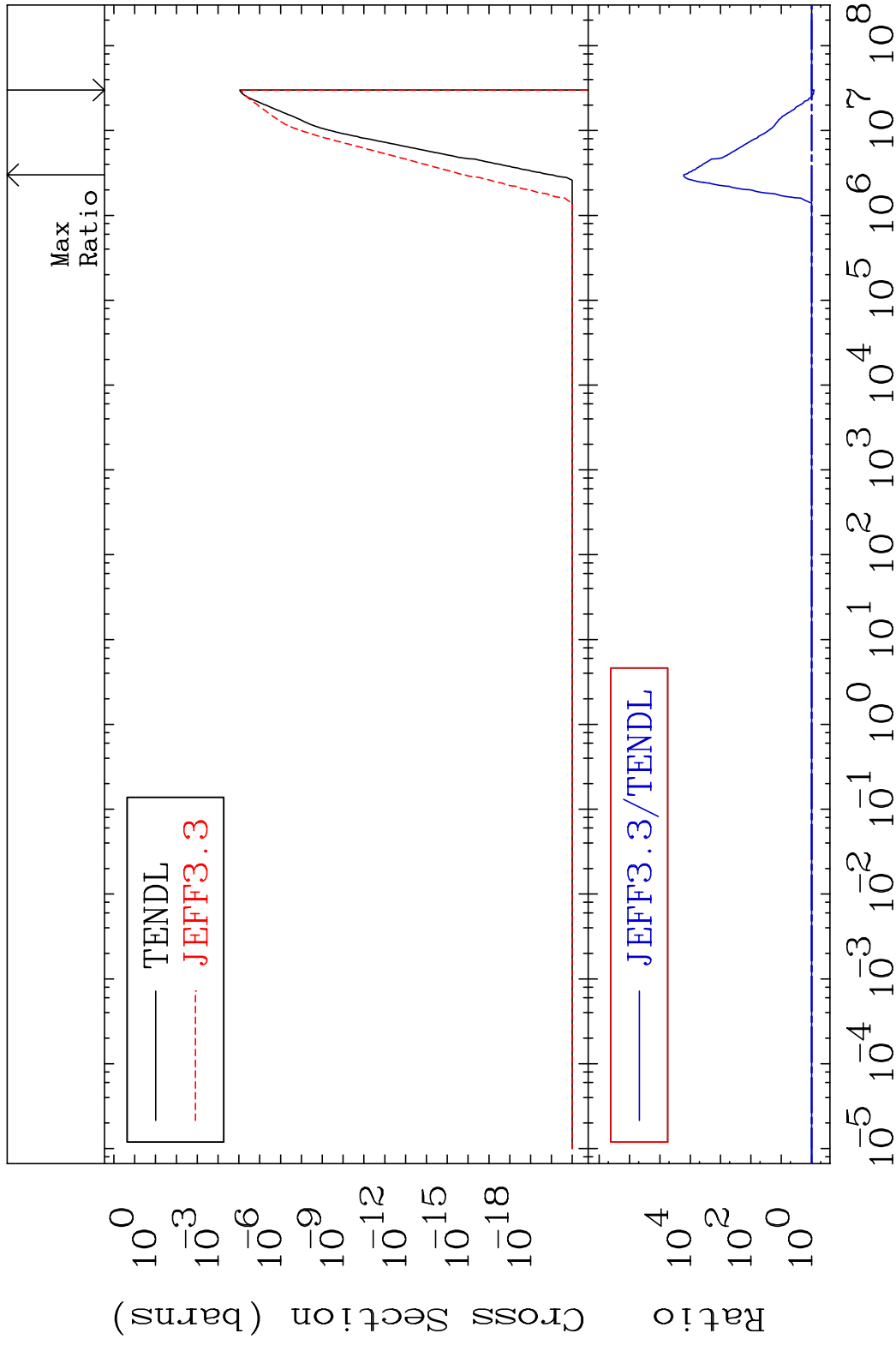
64-Gd-149

MAT 6416

(n,p)  $\alpha$

64-Gd-149

Cross Section -17.33 To 9999. %

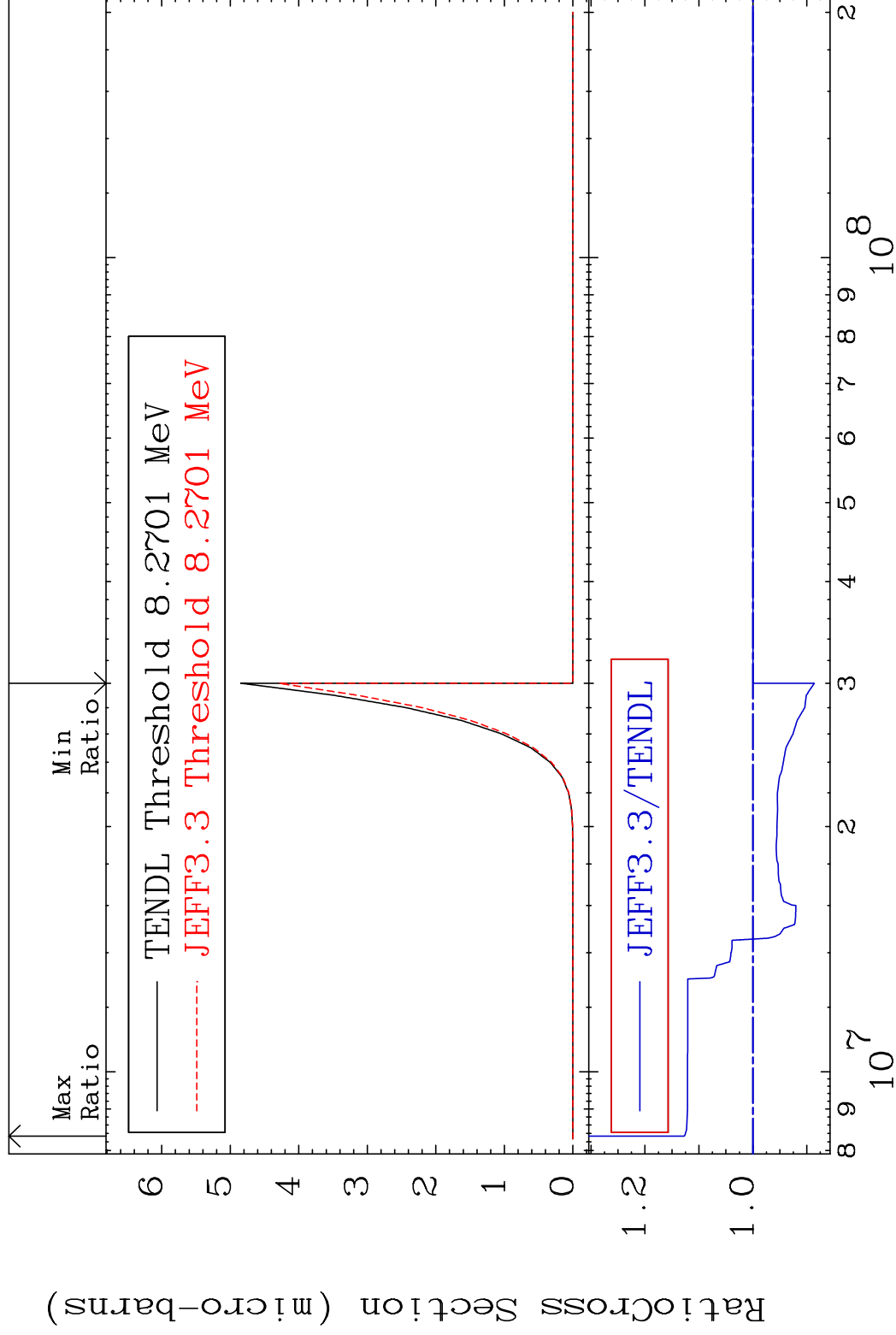


MAT 6416

(n,p) d

64-Gd-149

Cross Section -11.37 To 12.76 %



59

Incident Energy (eV)

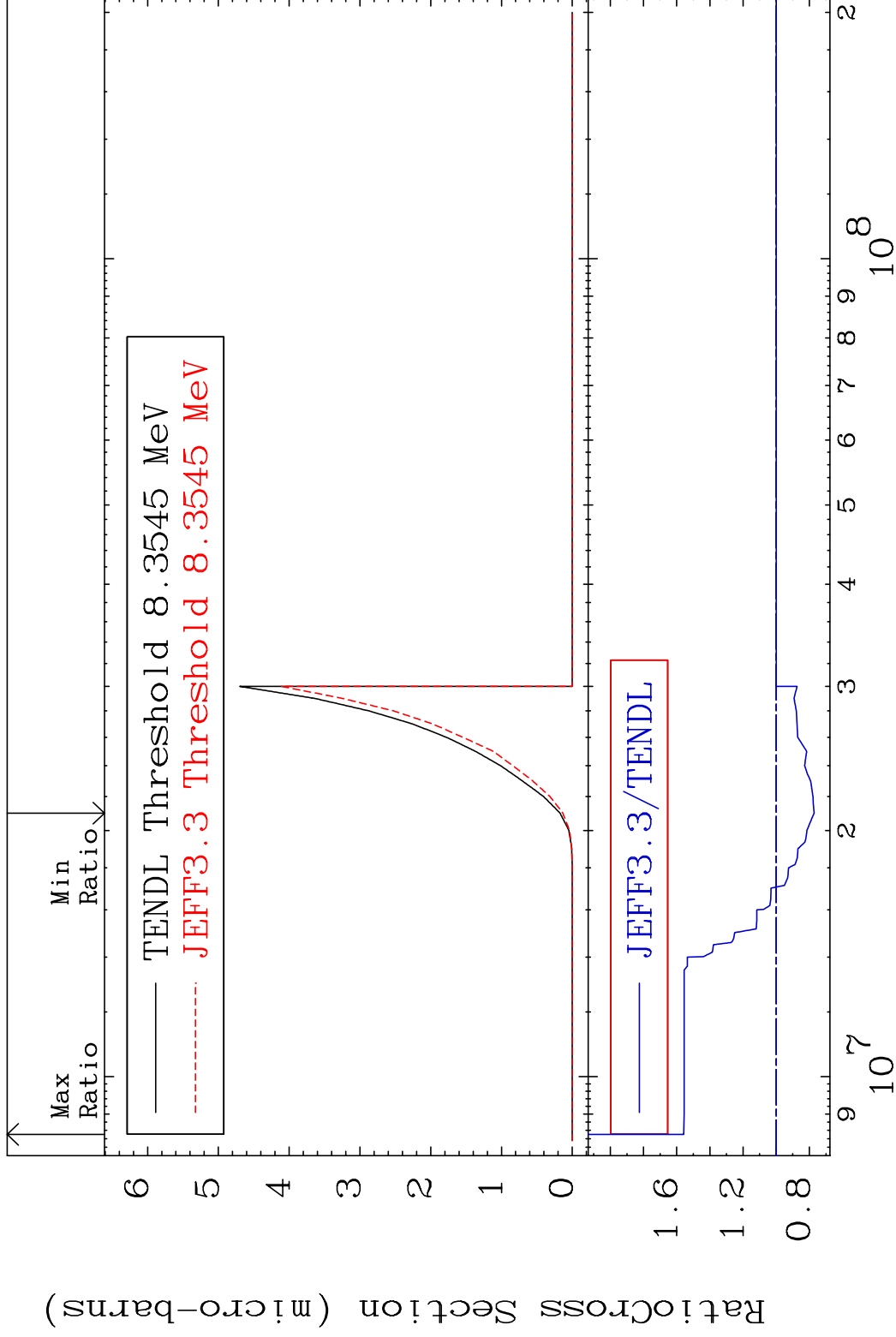
64-Gd-149

MAT 6416

(n,p) t

64-Gd-149

Cross Section -22.85 To 55.80 %



60

Incident Energy (eV)

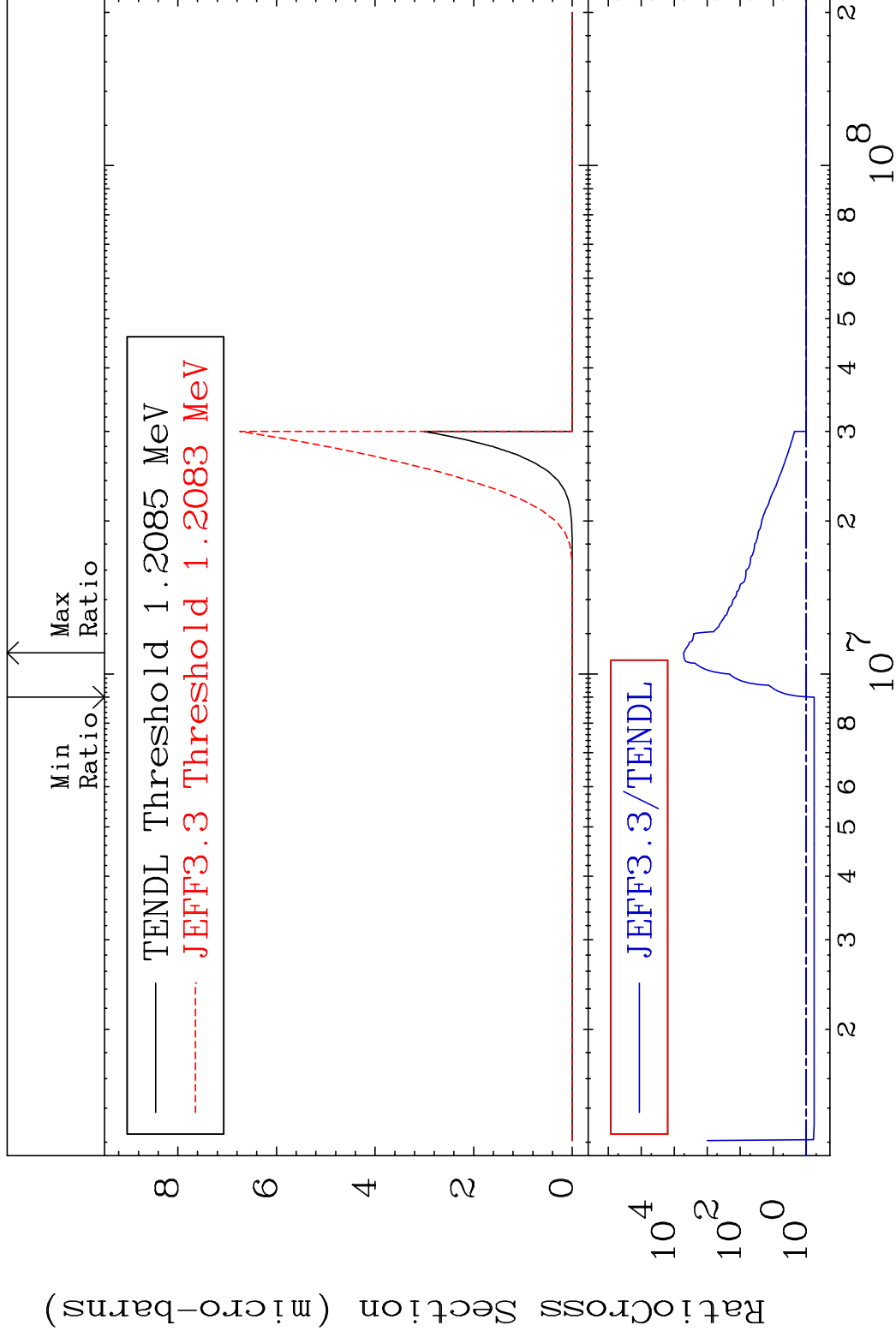
64-Gd-149

MAT 6416

(n, d)  $\alpha$

64-Gd-149

Cross Section -42.46 To 9999. %



61

Incident Energy (eV)

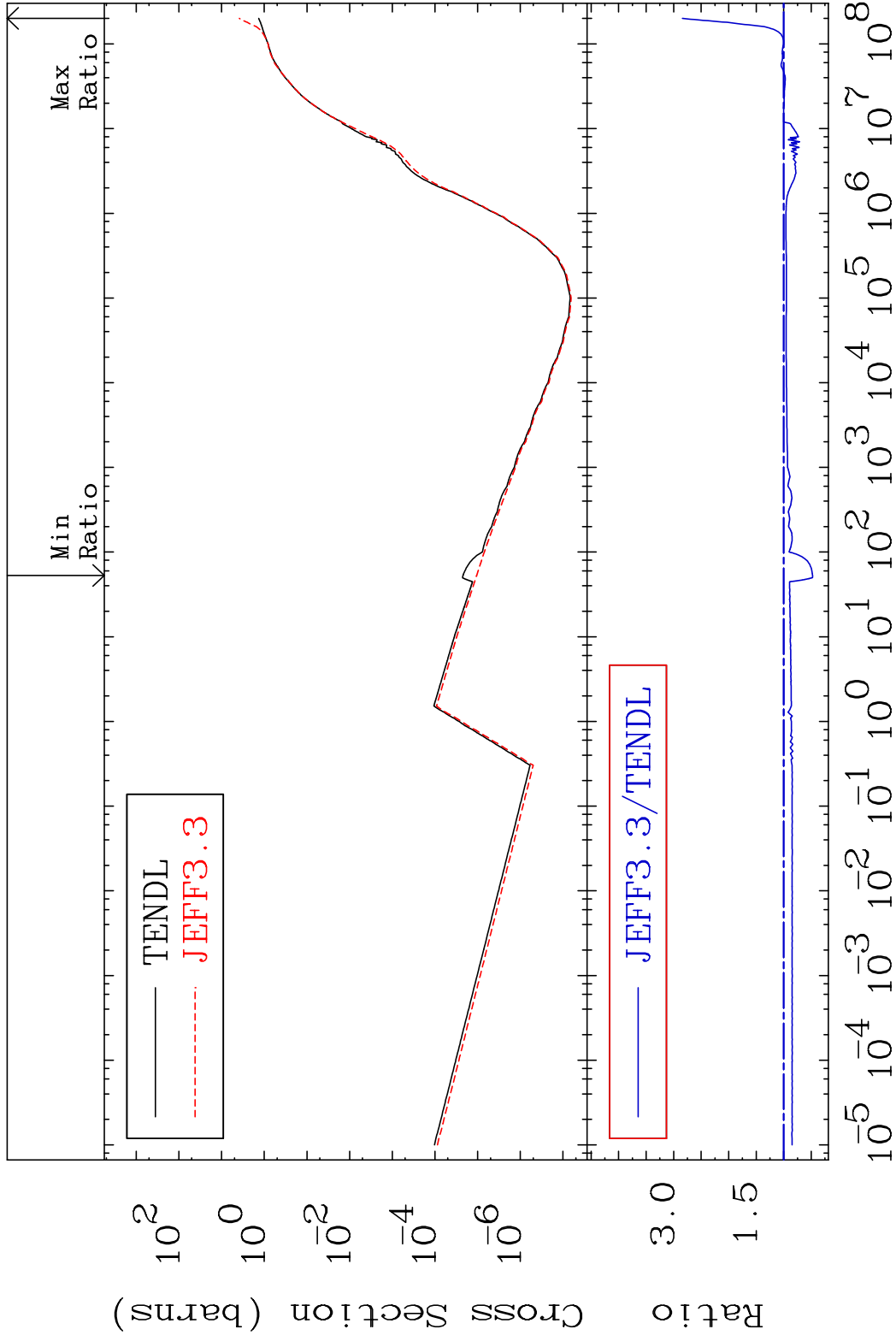
64-Gd-149

MAT 6416

Hydrogen Production

64-Gd-149

Cross Section -52.40 To 184.2 %



62

Incident Energy (eV)

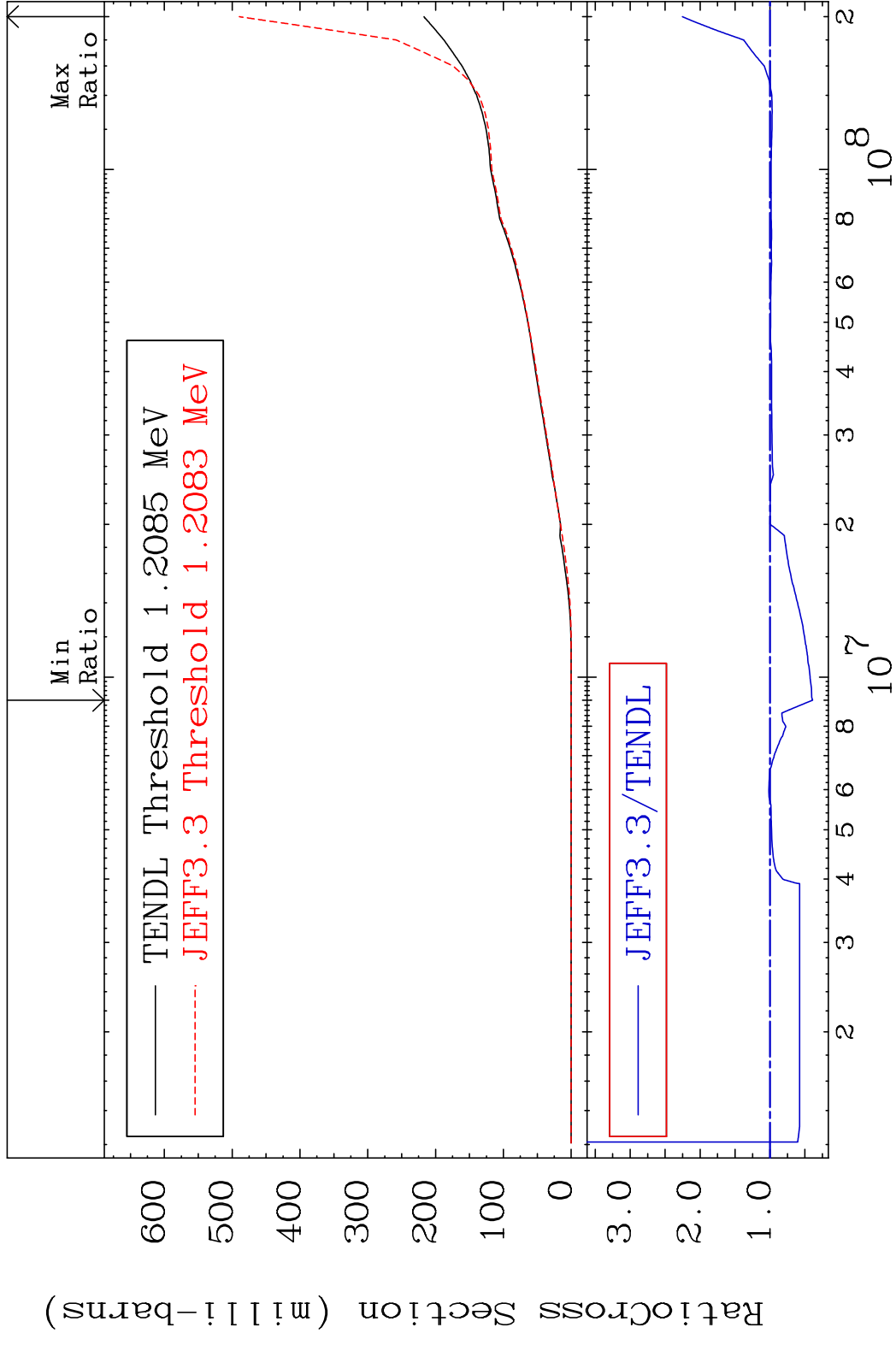
64-Gd-149

MAT 6416

Deuterium Production

64-Gd-149

Cross Section -60.86 To 125.4 %

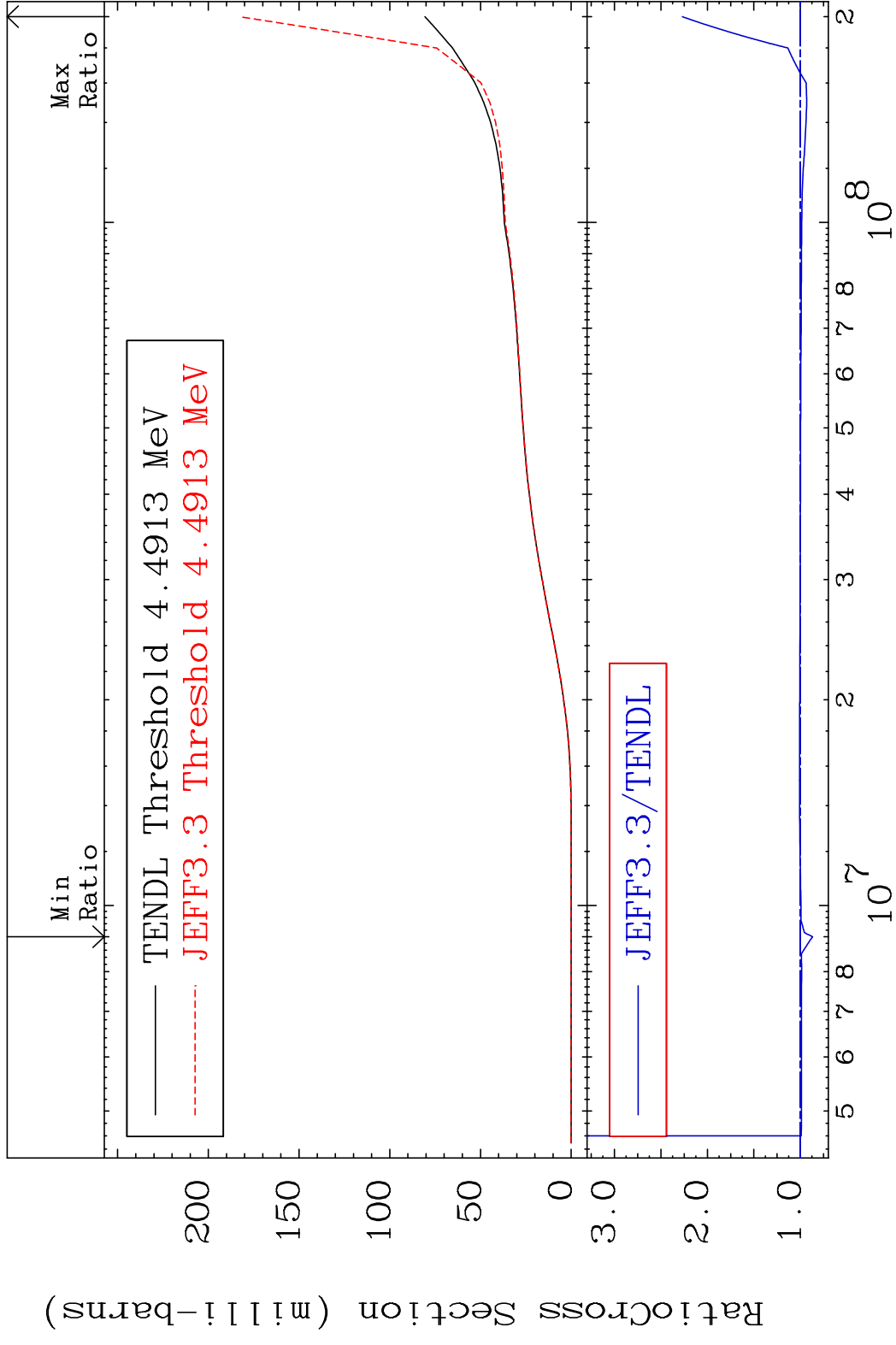


MAT 6416

Tritium Production

64-Gd-149

Cross Section -13.14 To 126.9 %



64

Incident Energy (eV)

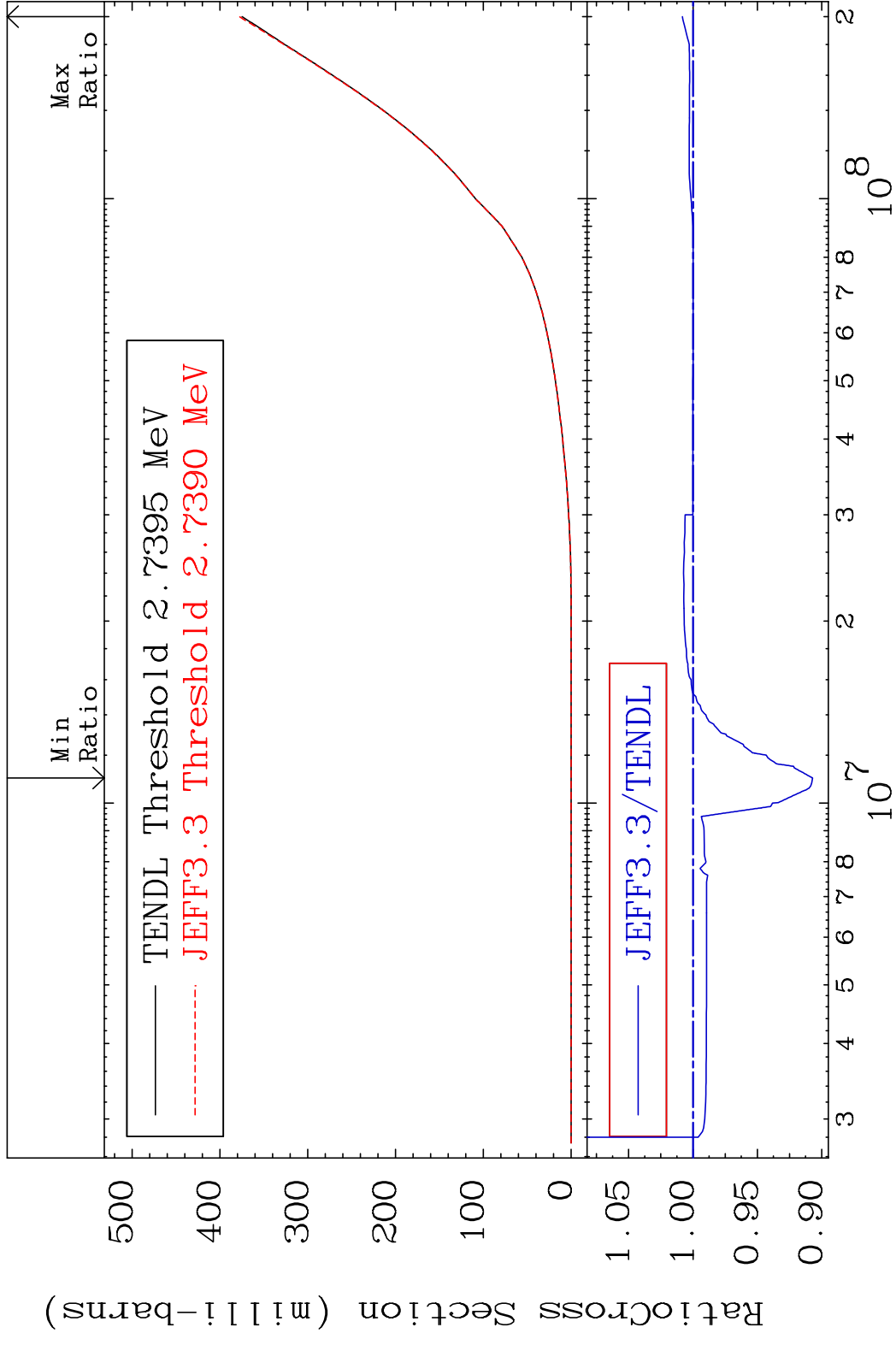
64-Gd-149

MAT 6416

He-3 Production

64-Gd-149

Cross Section -9.291 To 0.827 %



65

Incident Energy (eV)

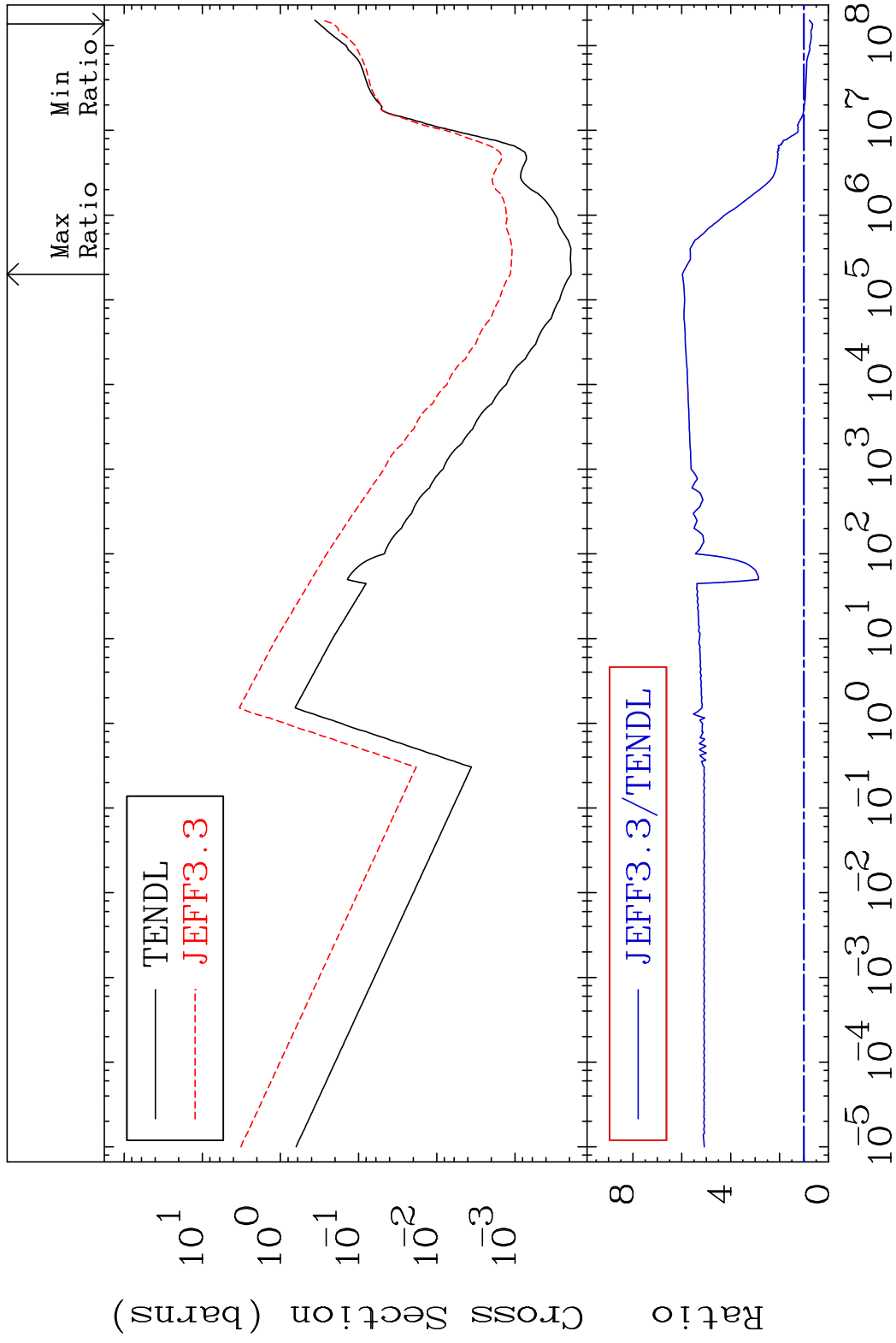
64-Gd-149

MAT 6416

He-4 Production

64-Gd-149

Cross Section -35.03 To 497.8 %



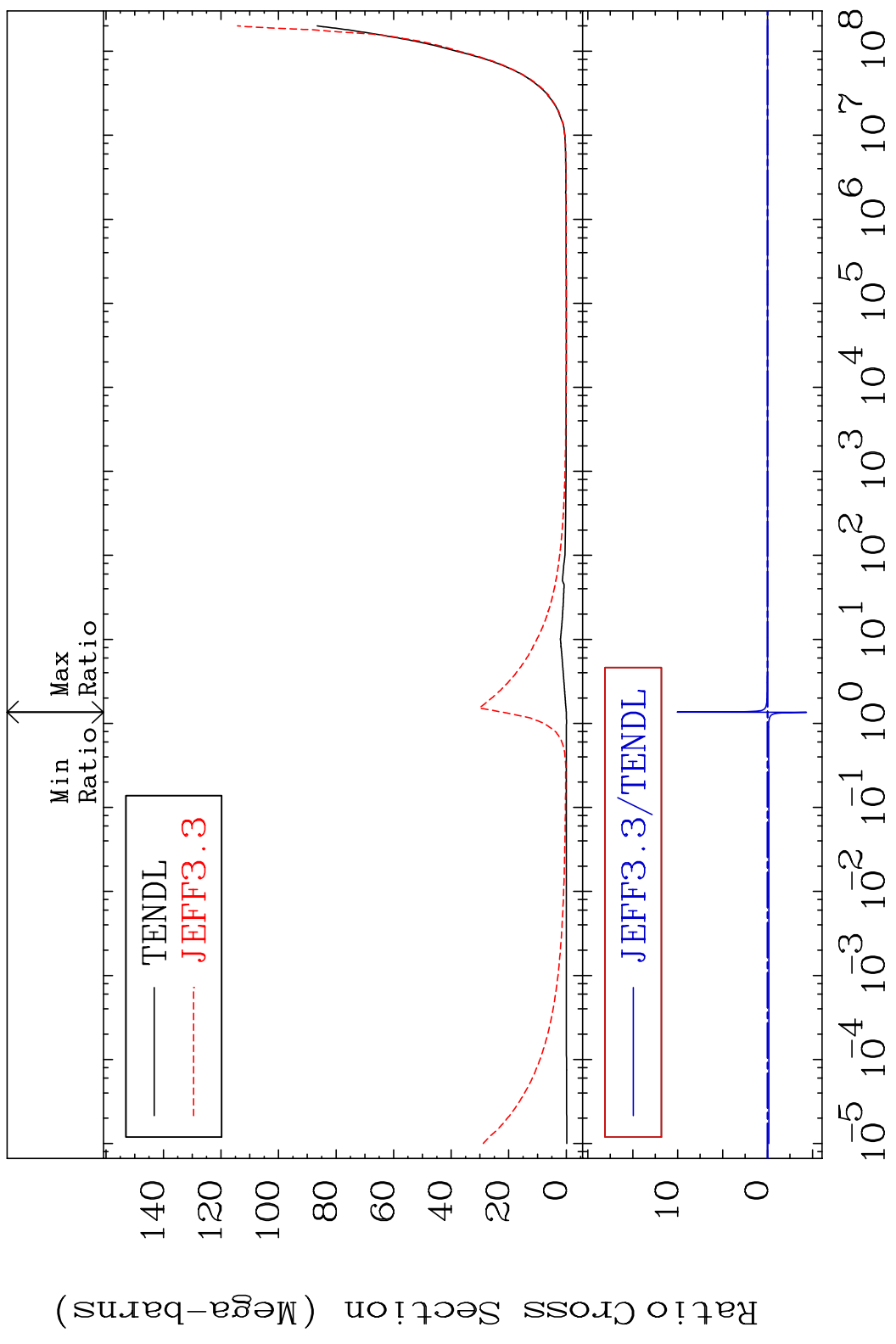
66

Incident Energy (eV)

64-Gd-149

MAT 6416

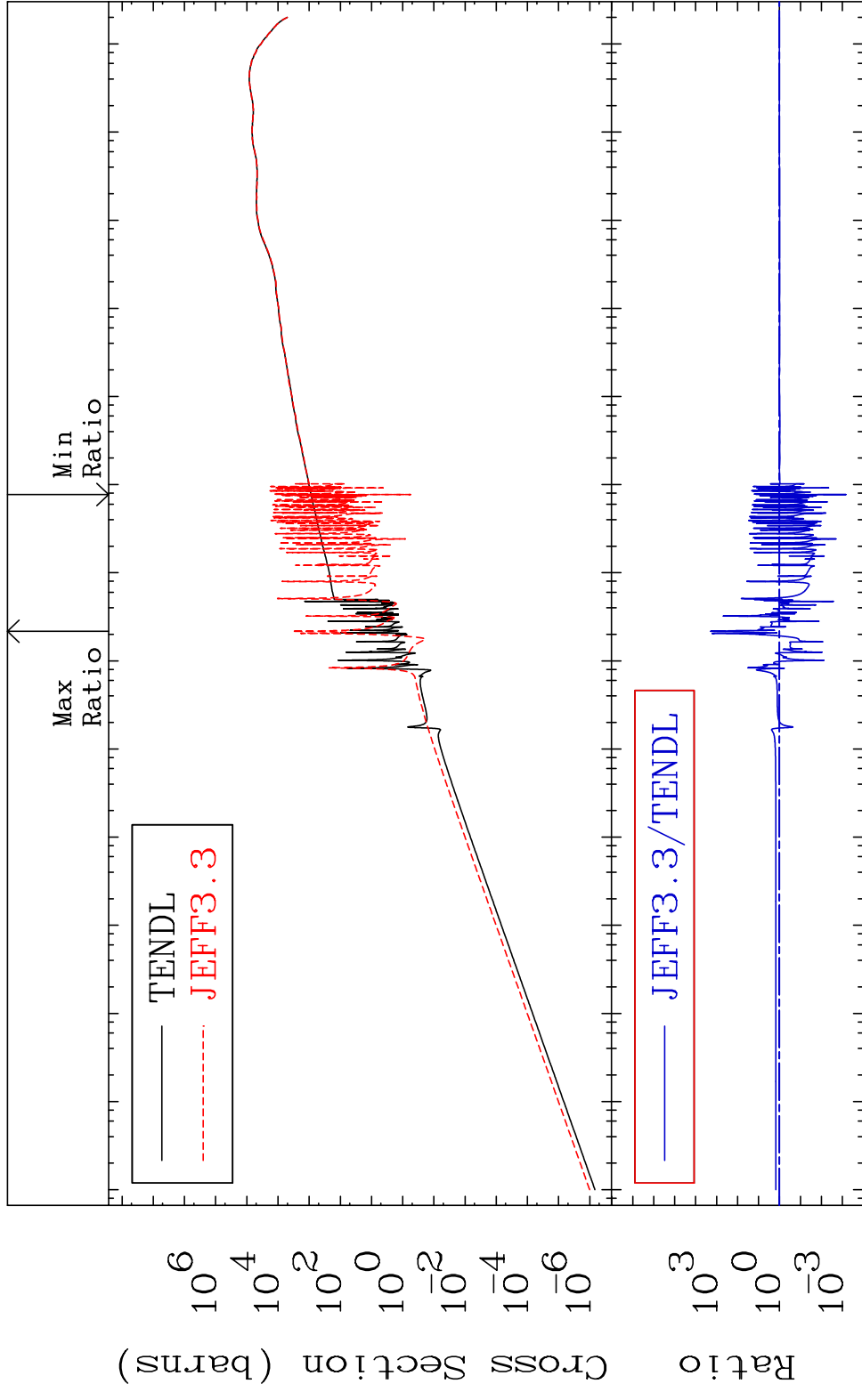
Kerma total (eV-barns) 64-Gd-149  
Cross Section -9999. To 9999. %



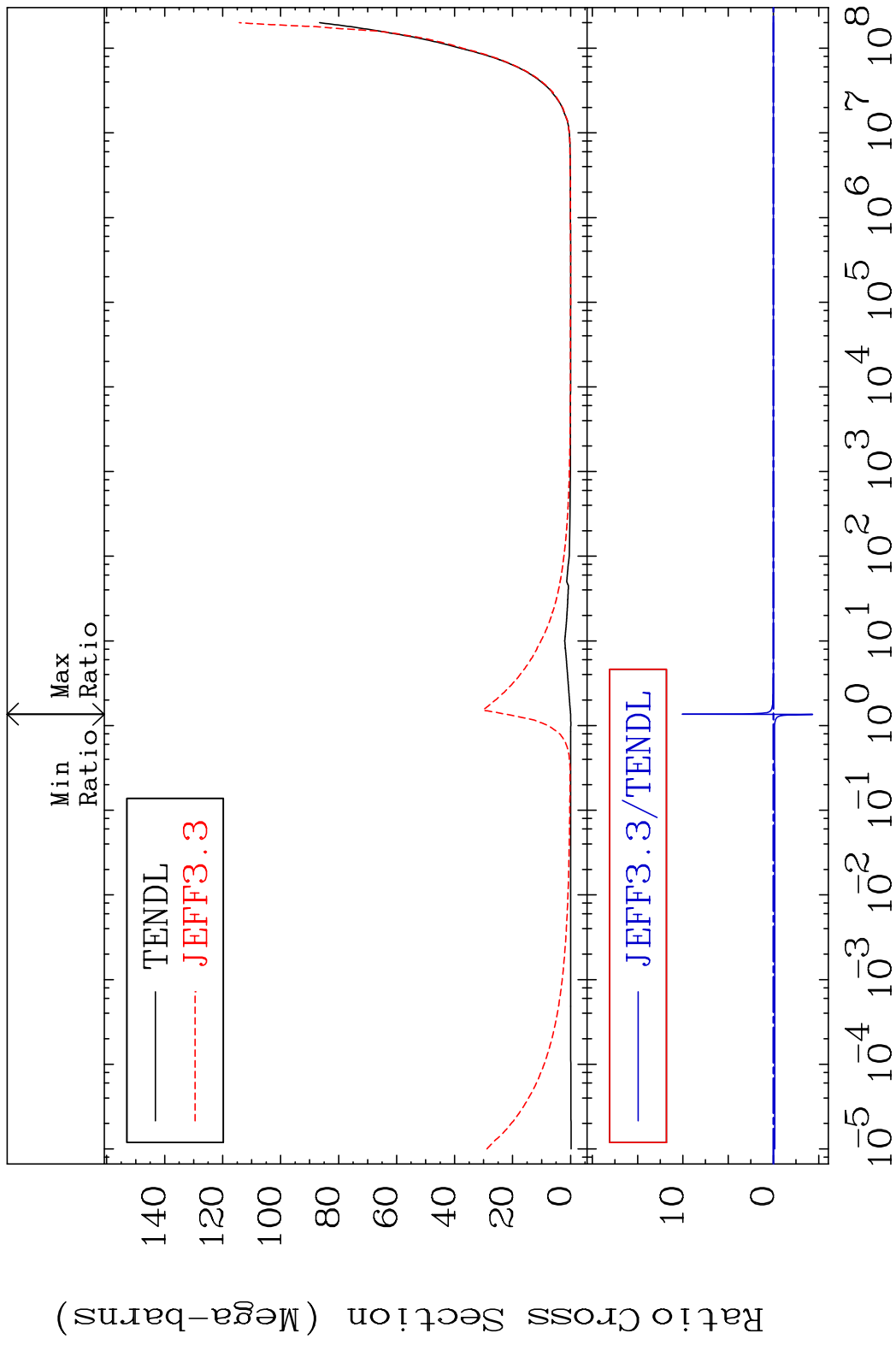
MAT 6416

Kerma elastic Cross Section -99.94 To 9999. %

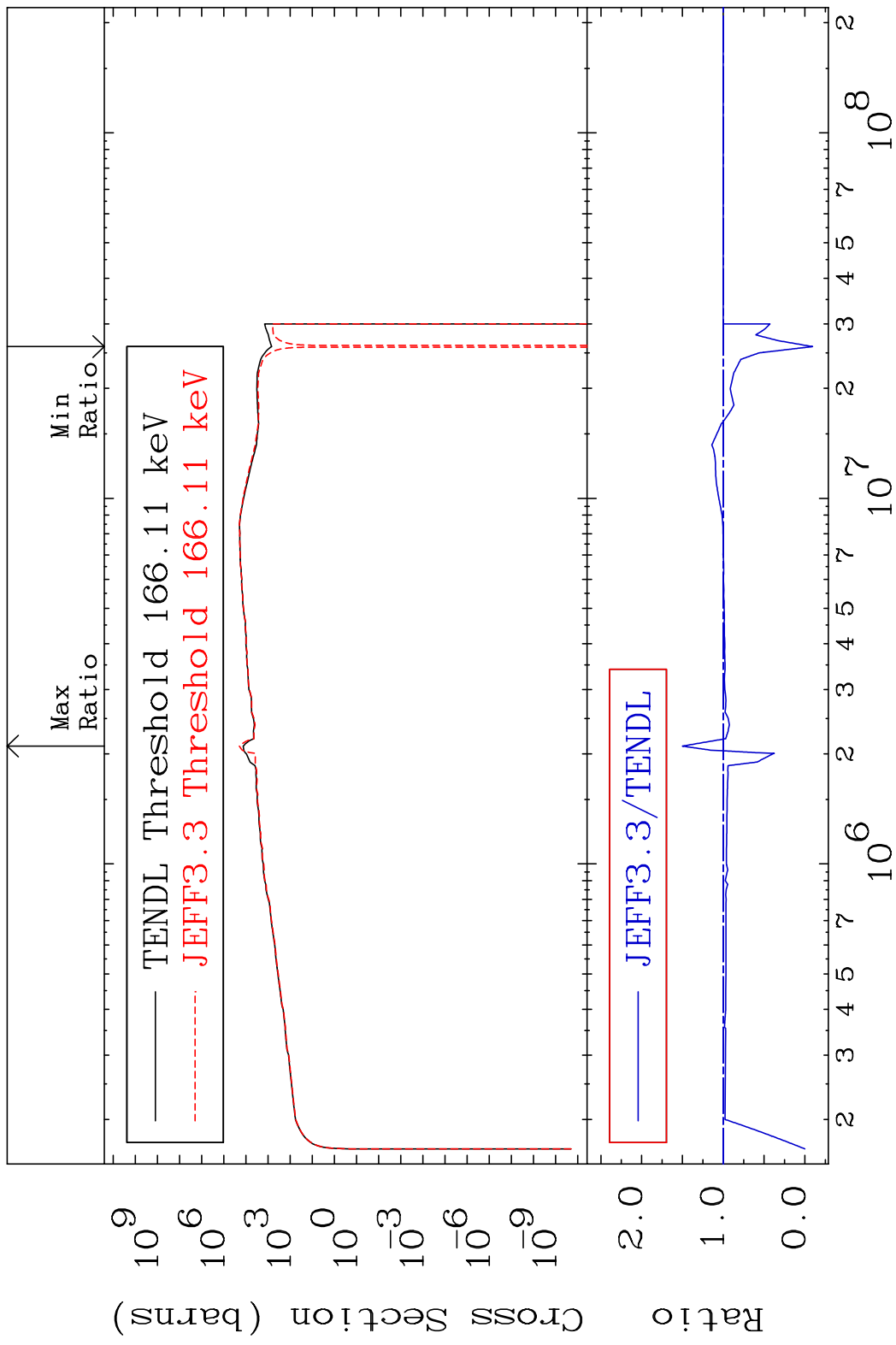
64-Gd-149



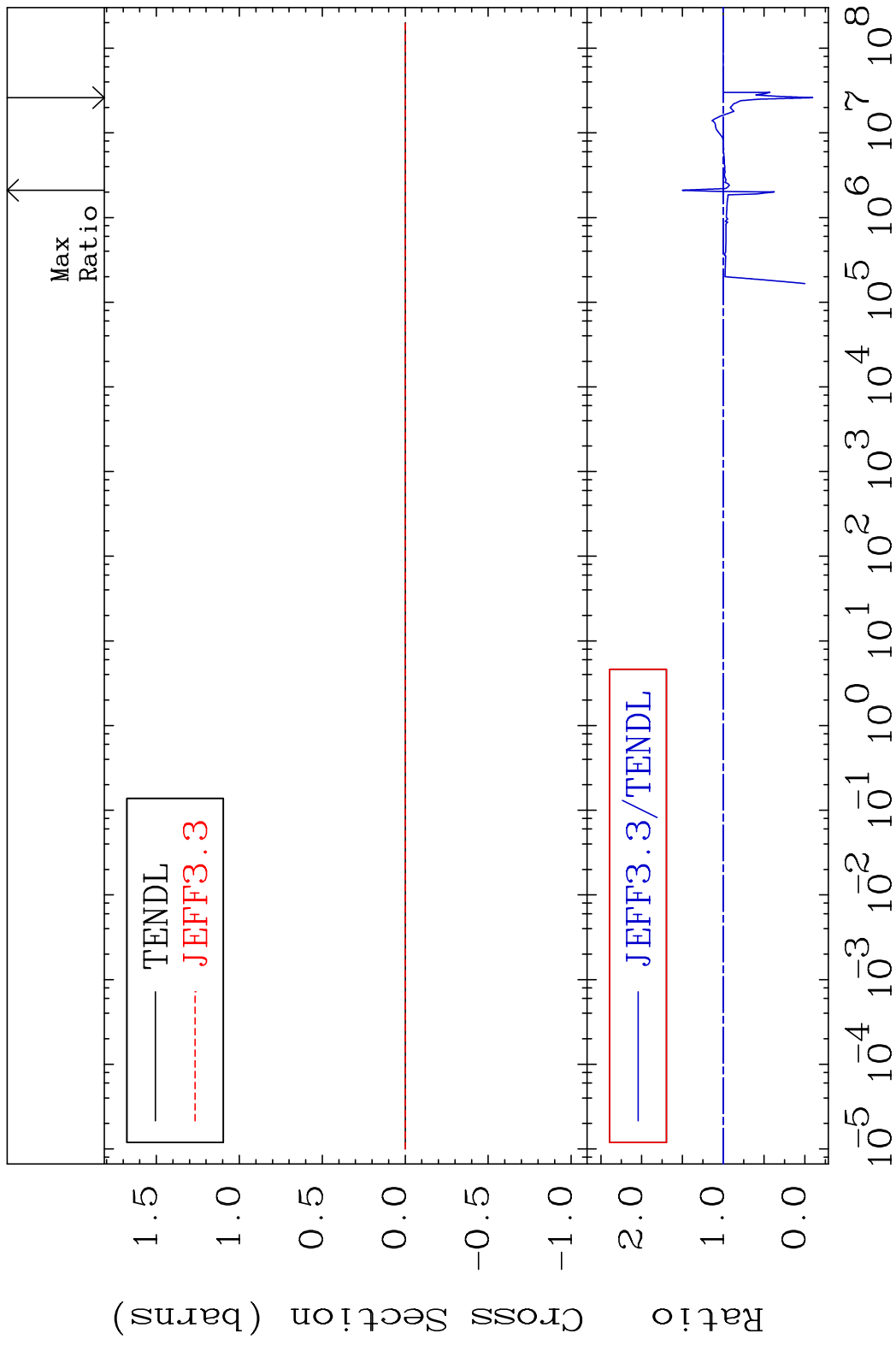
MAT 6416 Kerma non-elastic (all but mt2) 64-Gd-149  
 Cross Section -9999. To 9999. %



MAT 6416 Kerma inelastic (mt51-91) 64-Gd-149  
 Cross Section -109.4 To 50.14 %

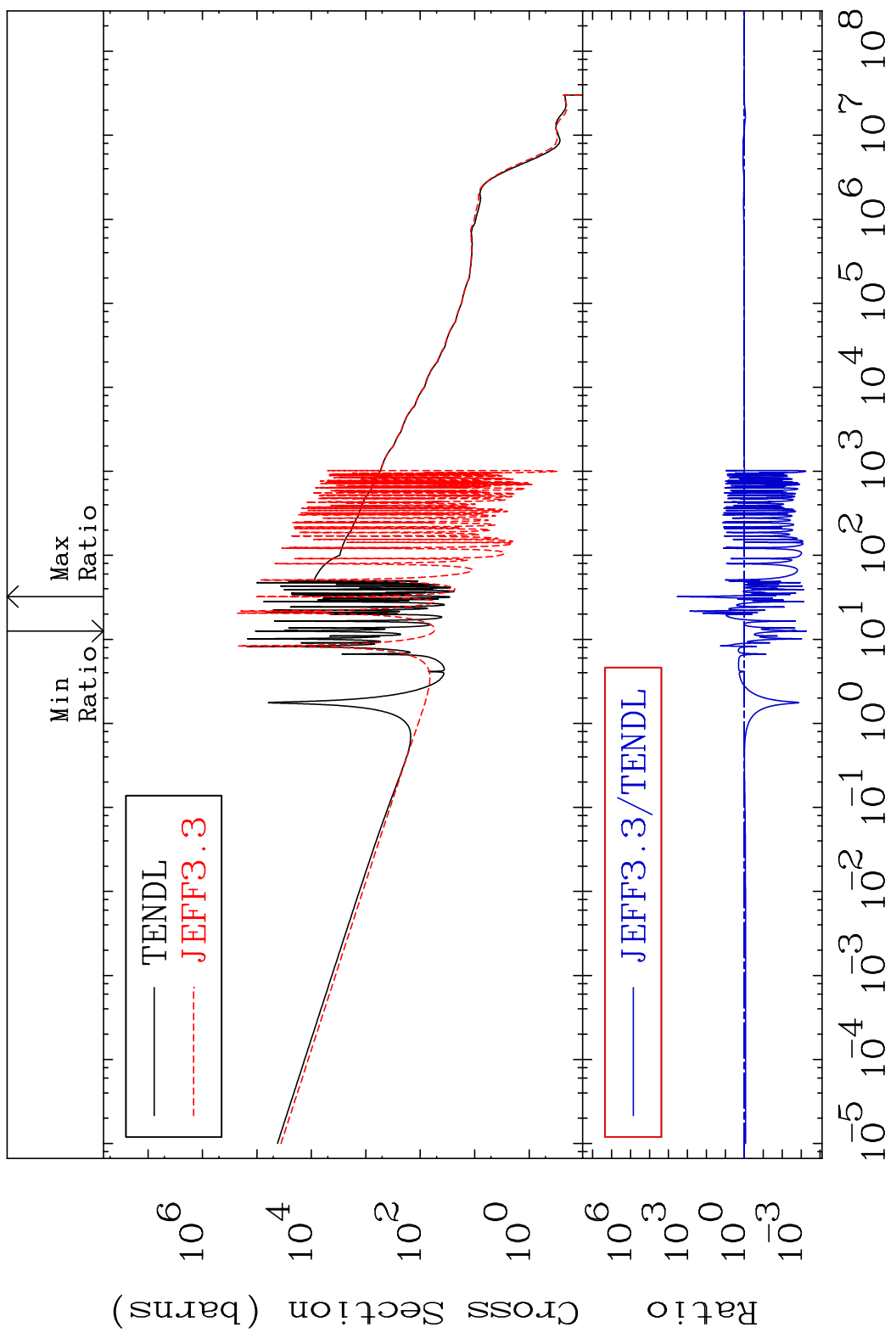


MAT 6416 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-149  
 Cross Section -109.4 To 50.14 %



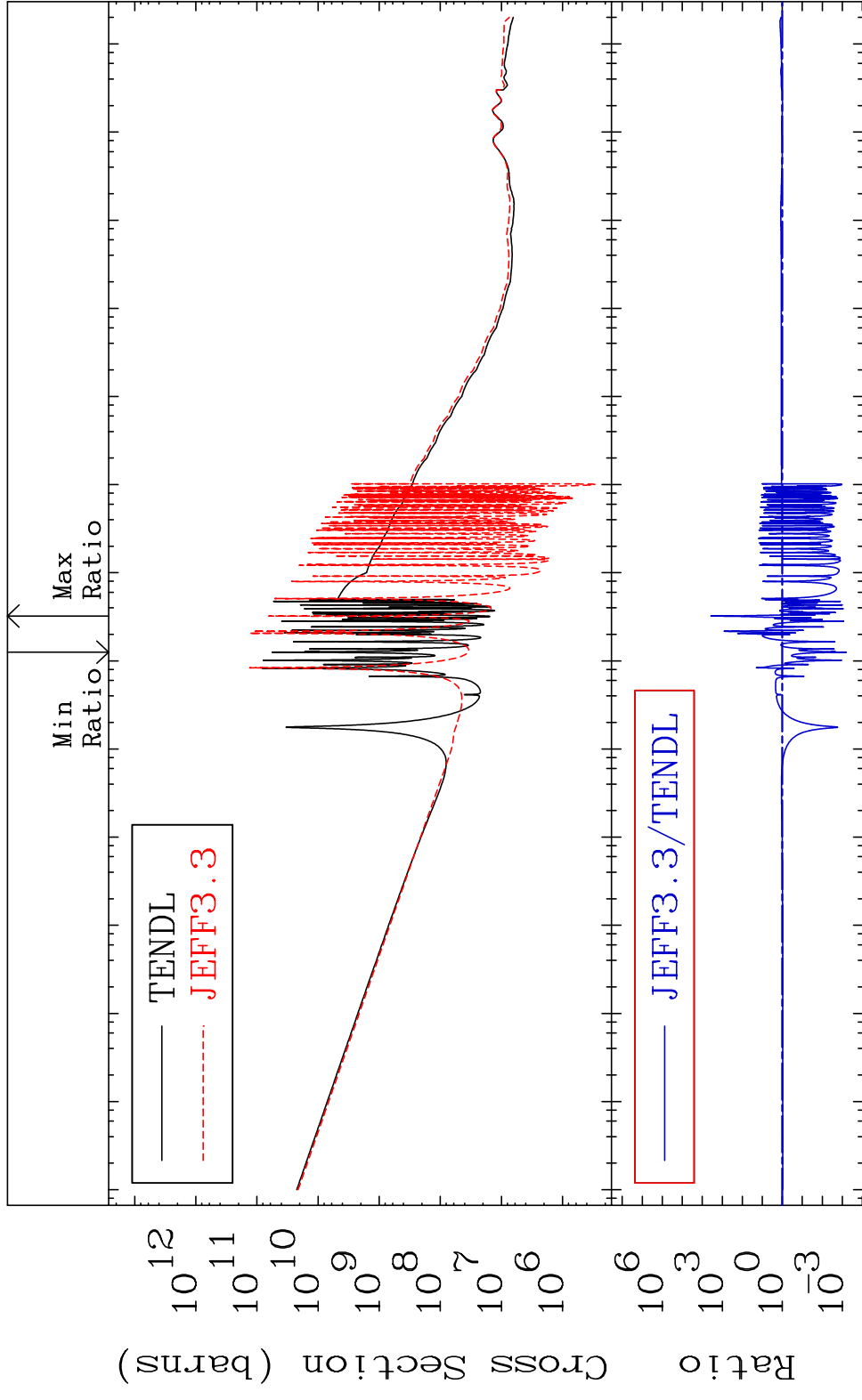
MAT 6416

Kerma capture (mt102) 64-Gd-149  
Cross Section -99.95 To 9999. %



MAT 6416

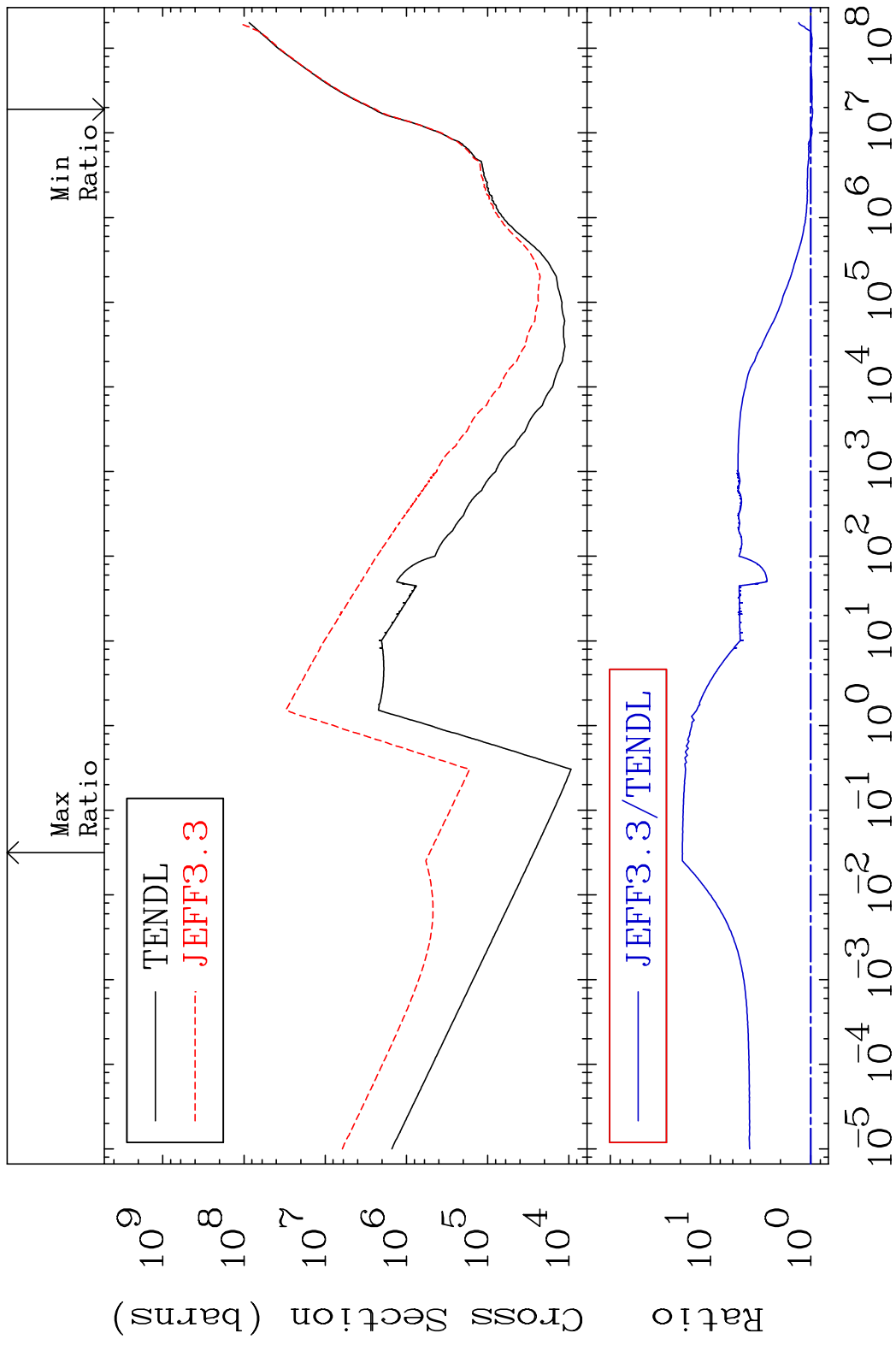
Total photon (eV-barns) 64-Gd-149  
Cross Section -99.94 To 9999. %



73

Incident Energy (eV) 64-Gd-149

MAT 6416 Total kinematic kerma (high limit) 64-Gd-149  
 Cross Section -4.129 To 1810. %

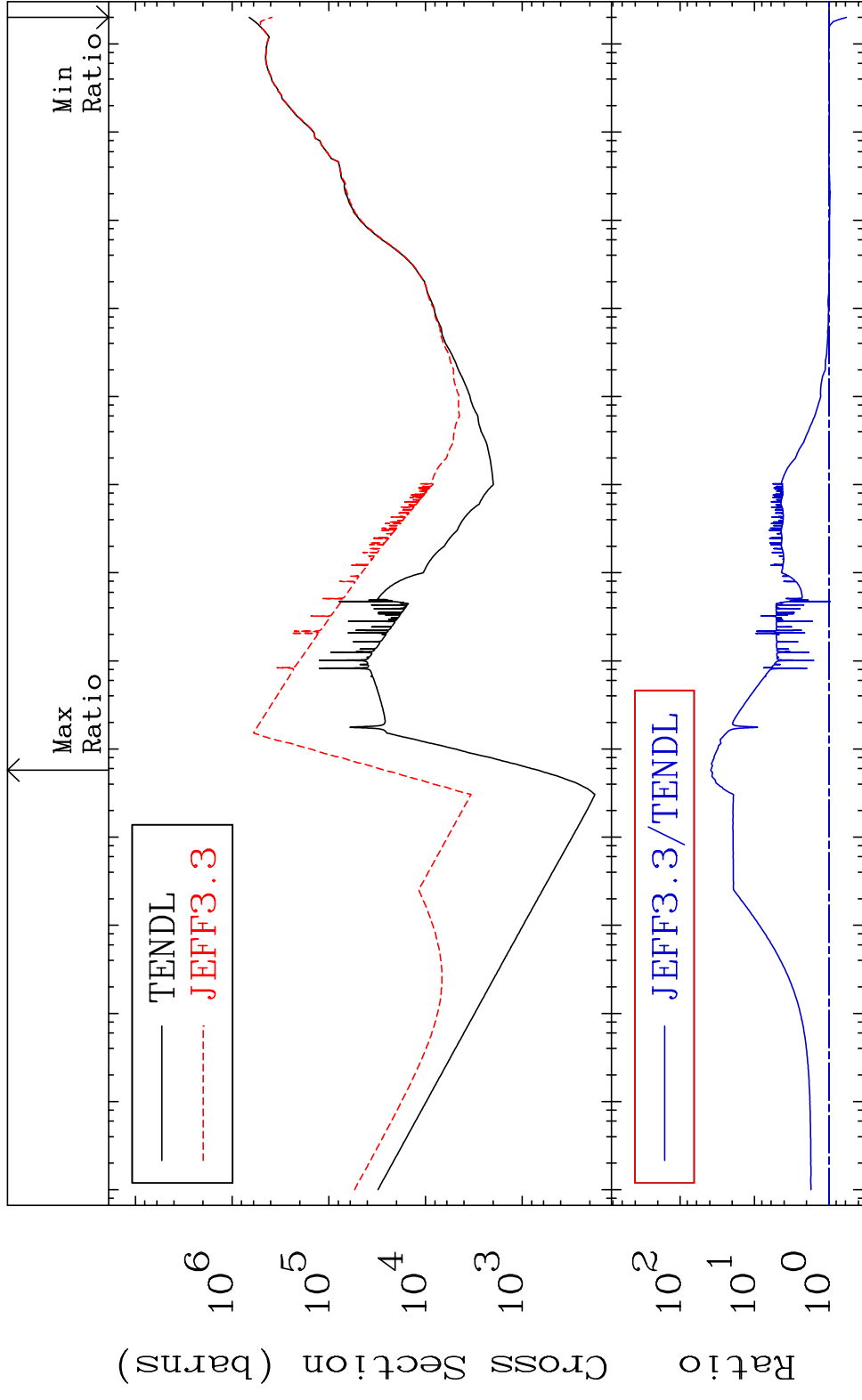


MAT 6416

Dpa total (eV-barns)

64-Gd-149

Cross Section -41.56 To 3777. %



75

Incident Energy (eV)

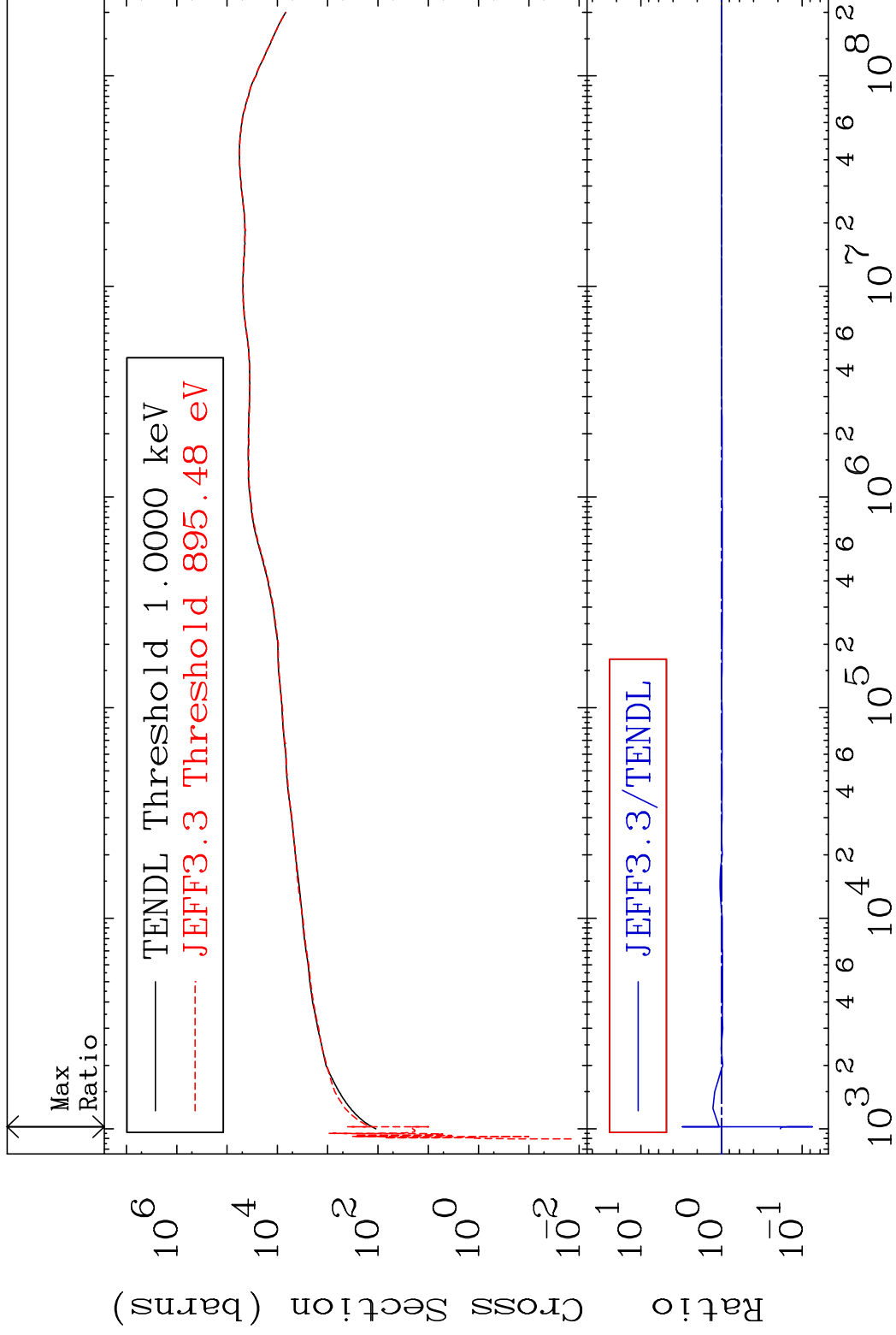
64-Gd-149

MAT 6416

Dpa elastic (mt2)

64-Gd-149

Cross Section -92.56 To 205.6 %

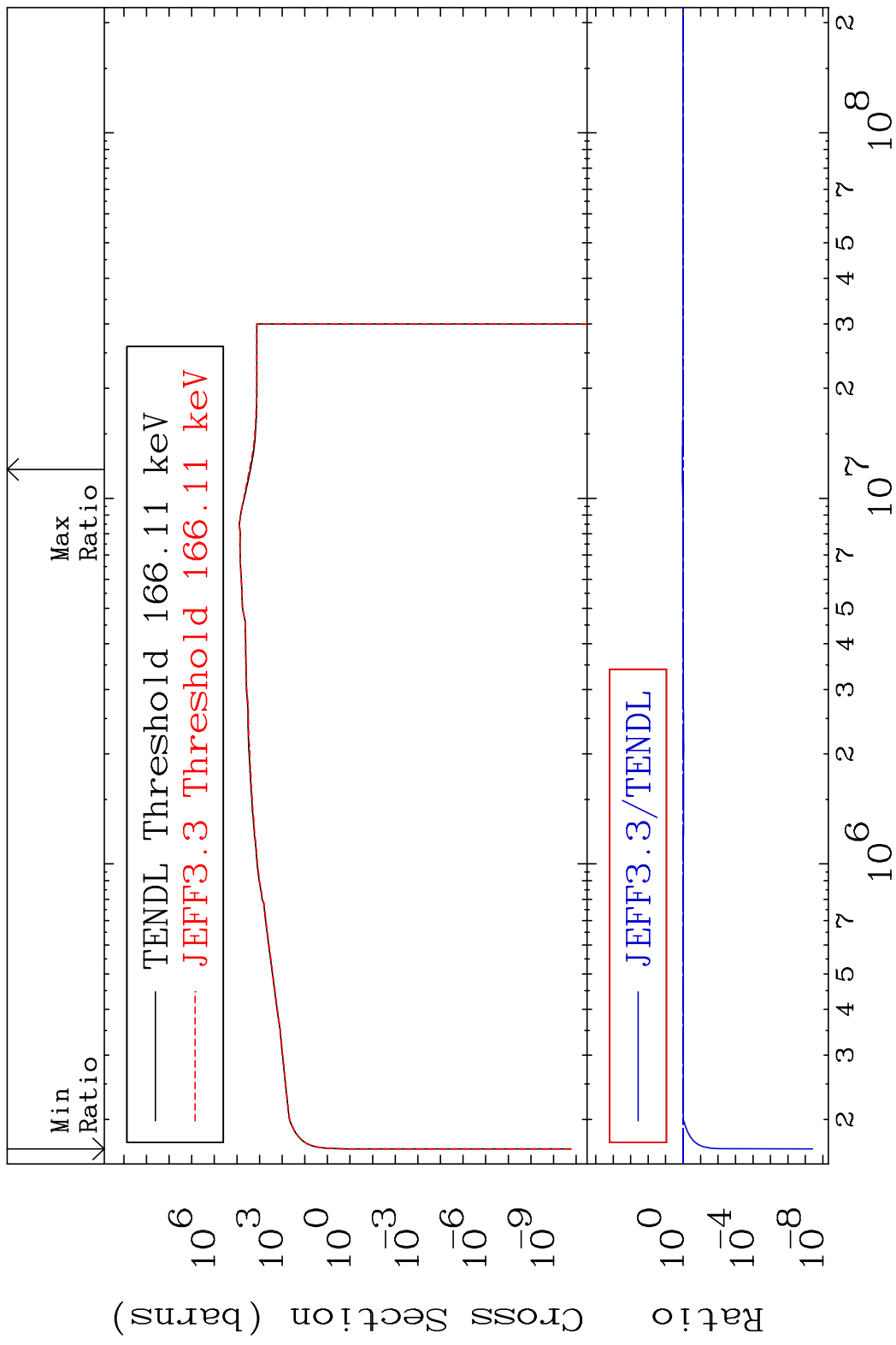


76

Incident Energy (eV)

64-Gd-149

MAT 6416 Dpa inelastic (mt51-91) 64-Gd-149  
 Cross Section -100.0 To 10.22 %



MAT 6416 Dpa disappearance (mt102 -120) 64-Gd-149  
 Cross Section -13.07 To 3777. %

