

Program Complot  
(Version 2021-1)

by

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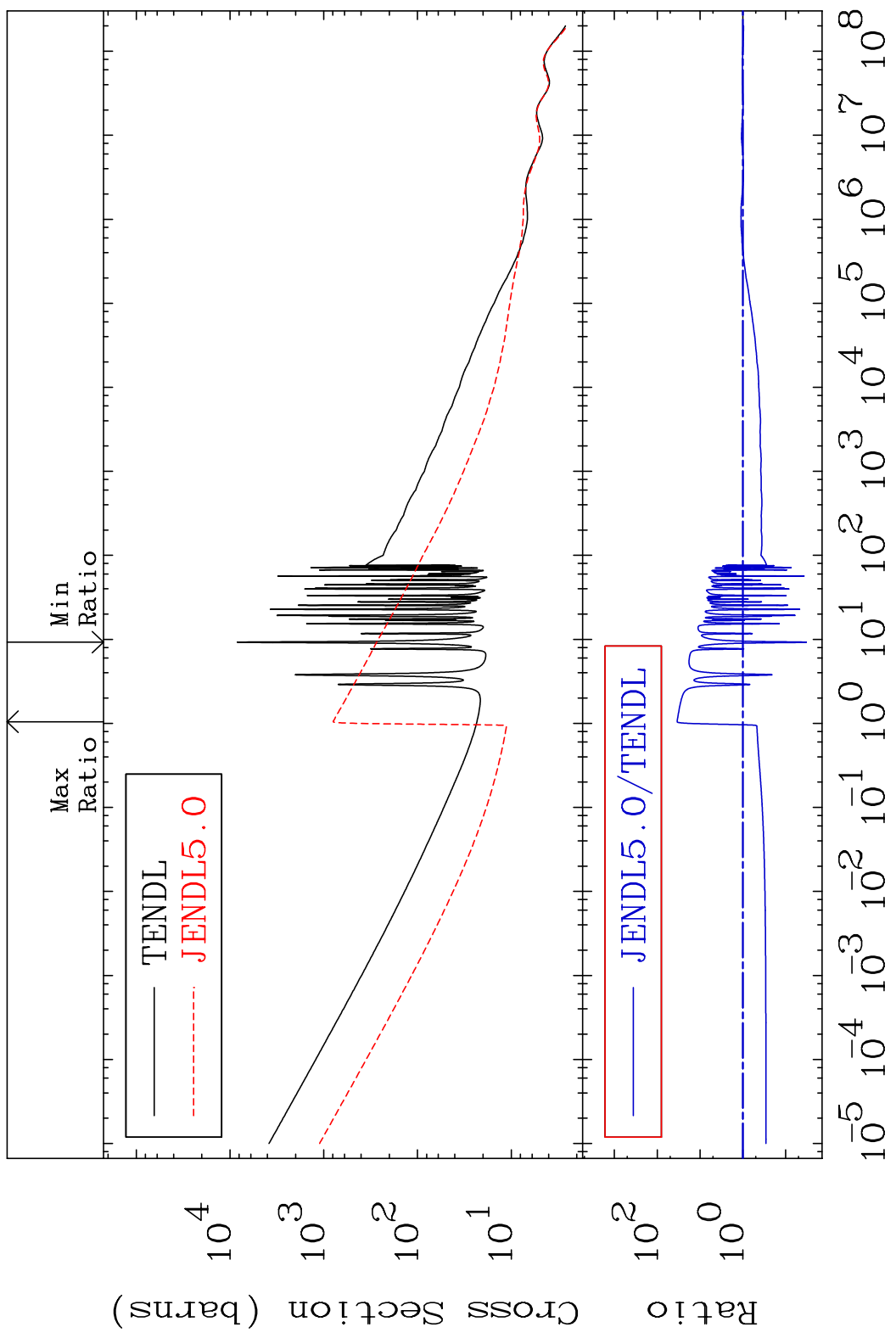
Press Mouse Button to Start

MAT 7122

Total

71-Lu-174

Cross Section -96.73 To 3315. %



1

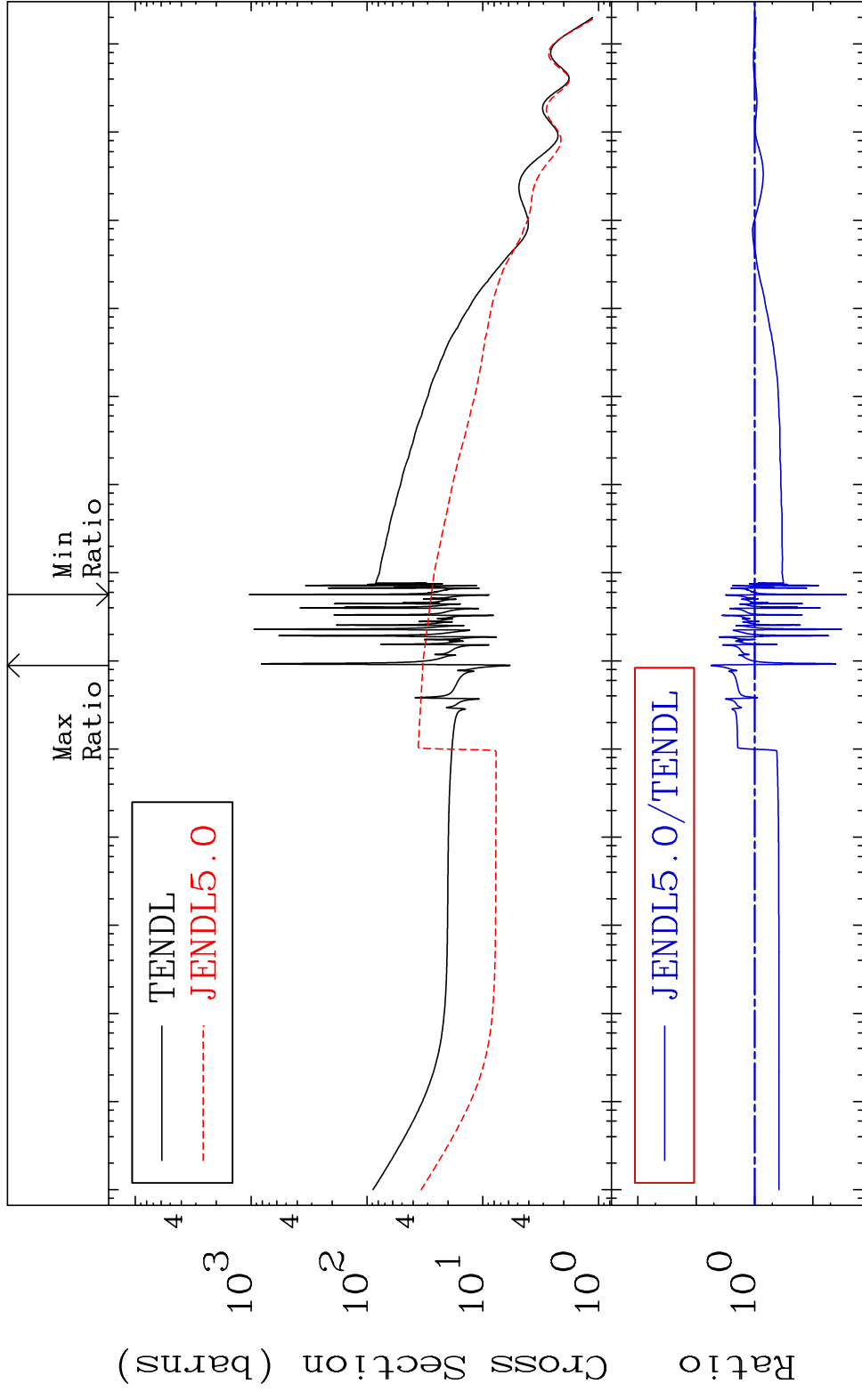
Incident Energy (eV)

71-Lu-174

MAT 7122

Elastic Cross Section -97.32 To 465.5 %

71-Lu-174



2

Incident Energy (eV)

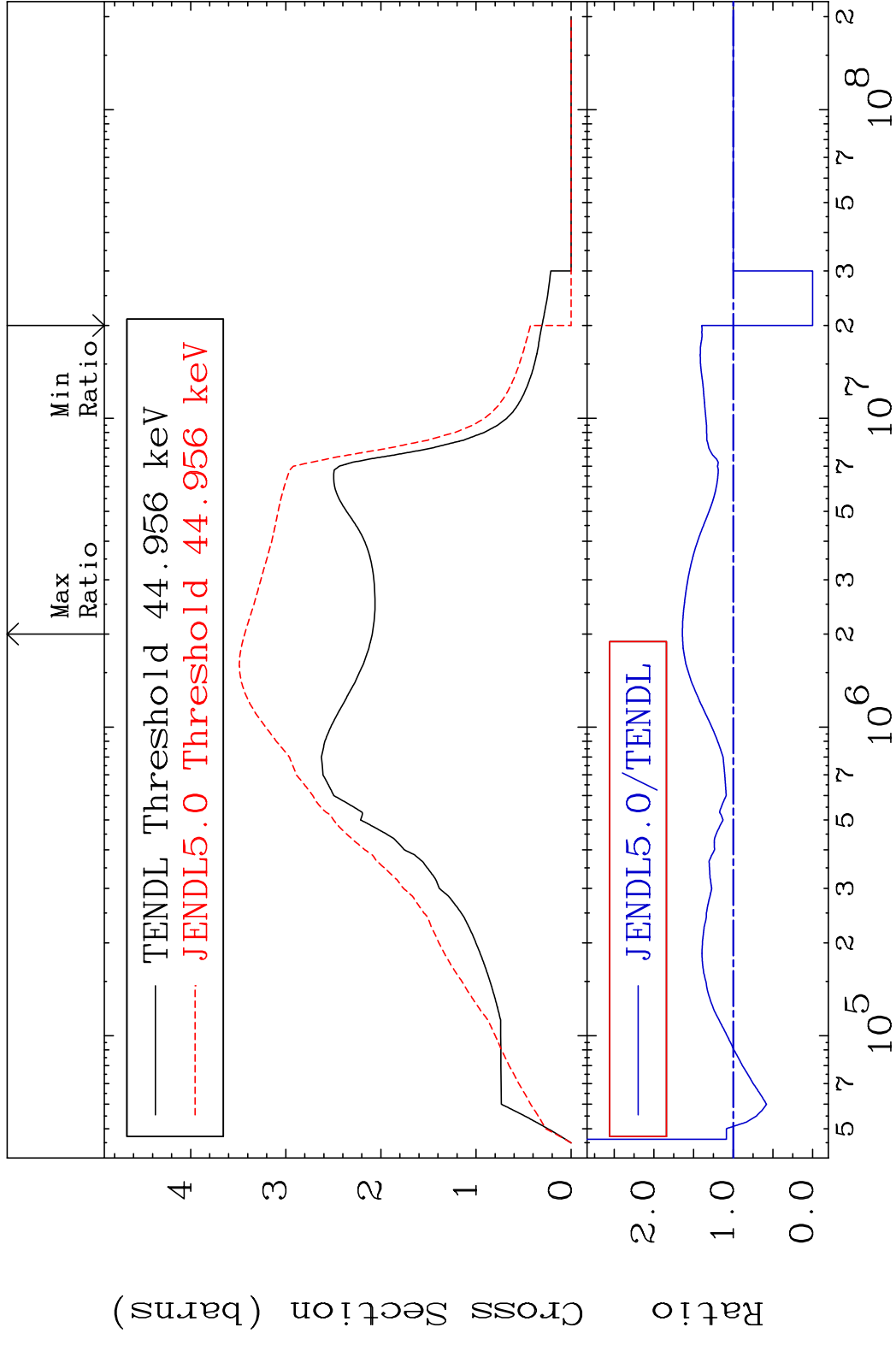
71-Lu-174

MAT 7122

Inelastic

71-Lu-174

Cross Section -100.0 To 64.19 %



3

Incident Energy (eV)

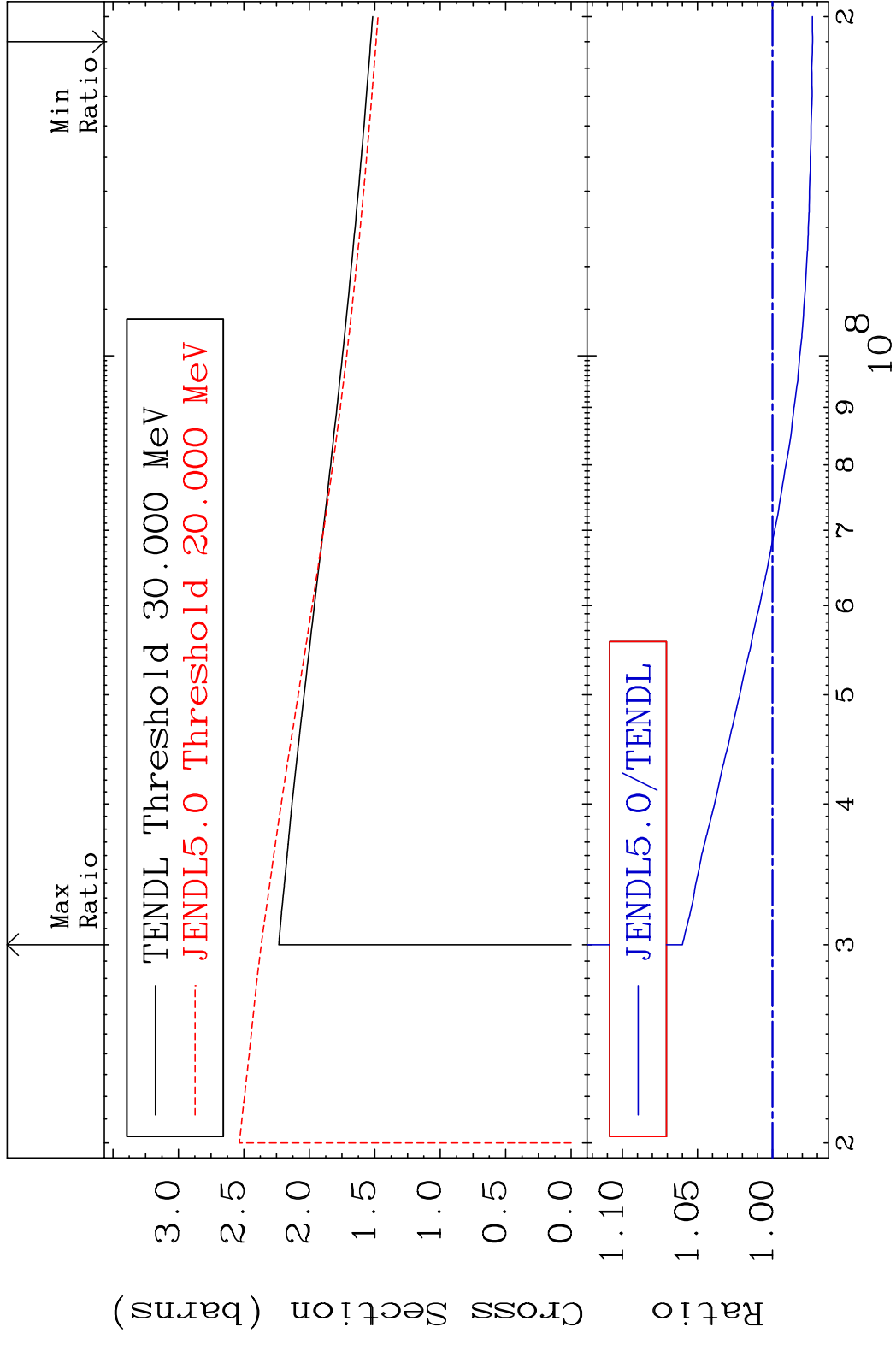
71-Lu-174

MAT 7122

(n, remainder)

71-Lu-174

Cross Section -2.673 To 6.002 %

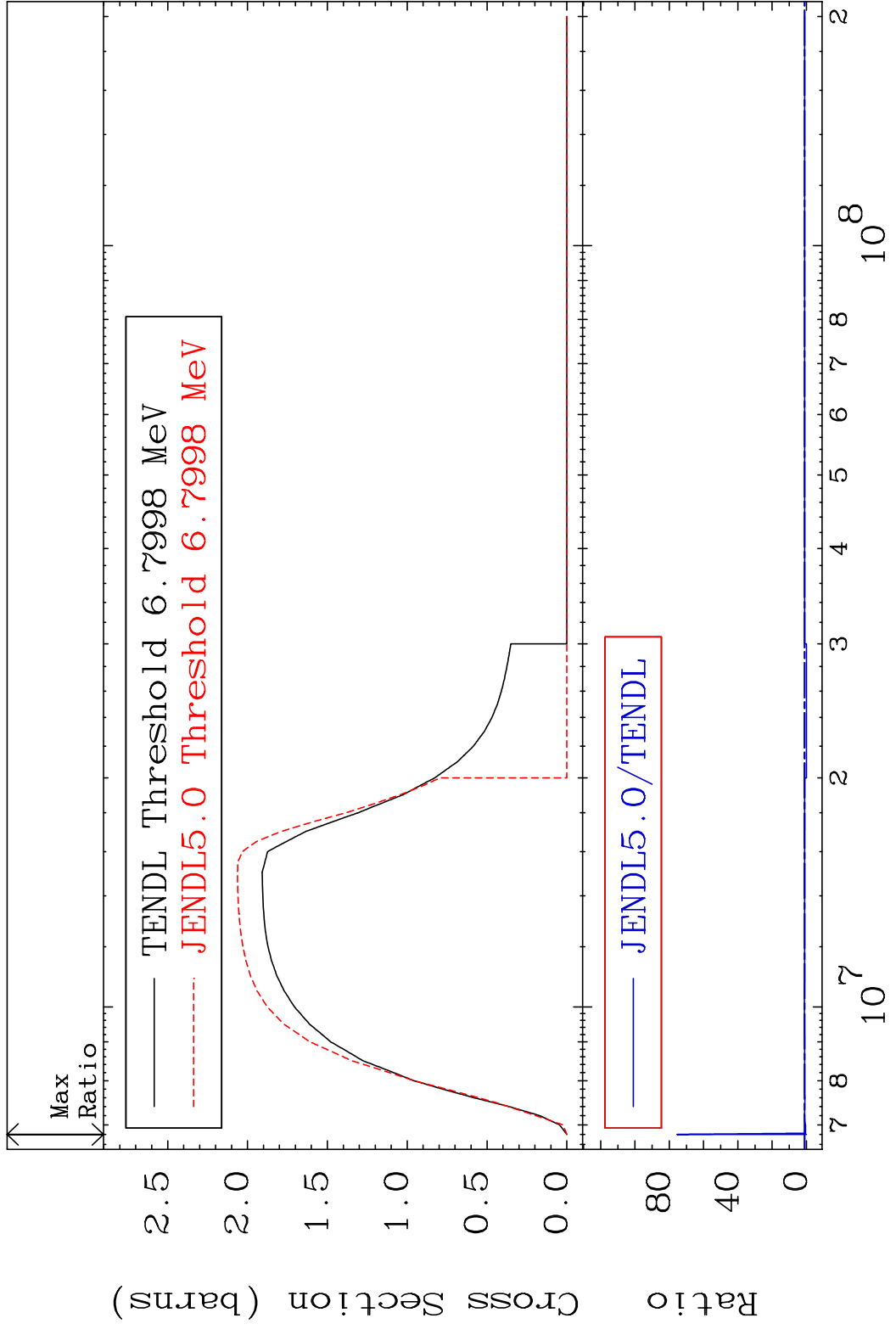


71-Lu-174

Incident Energy (eV)

4

MAT 7122 (n,2n) 71-Lu-174  
 Cross Section -100.0 To 7438. %



5 Incident Energy (eV) 71-Lu-174

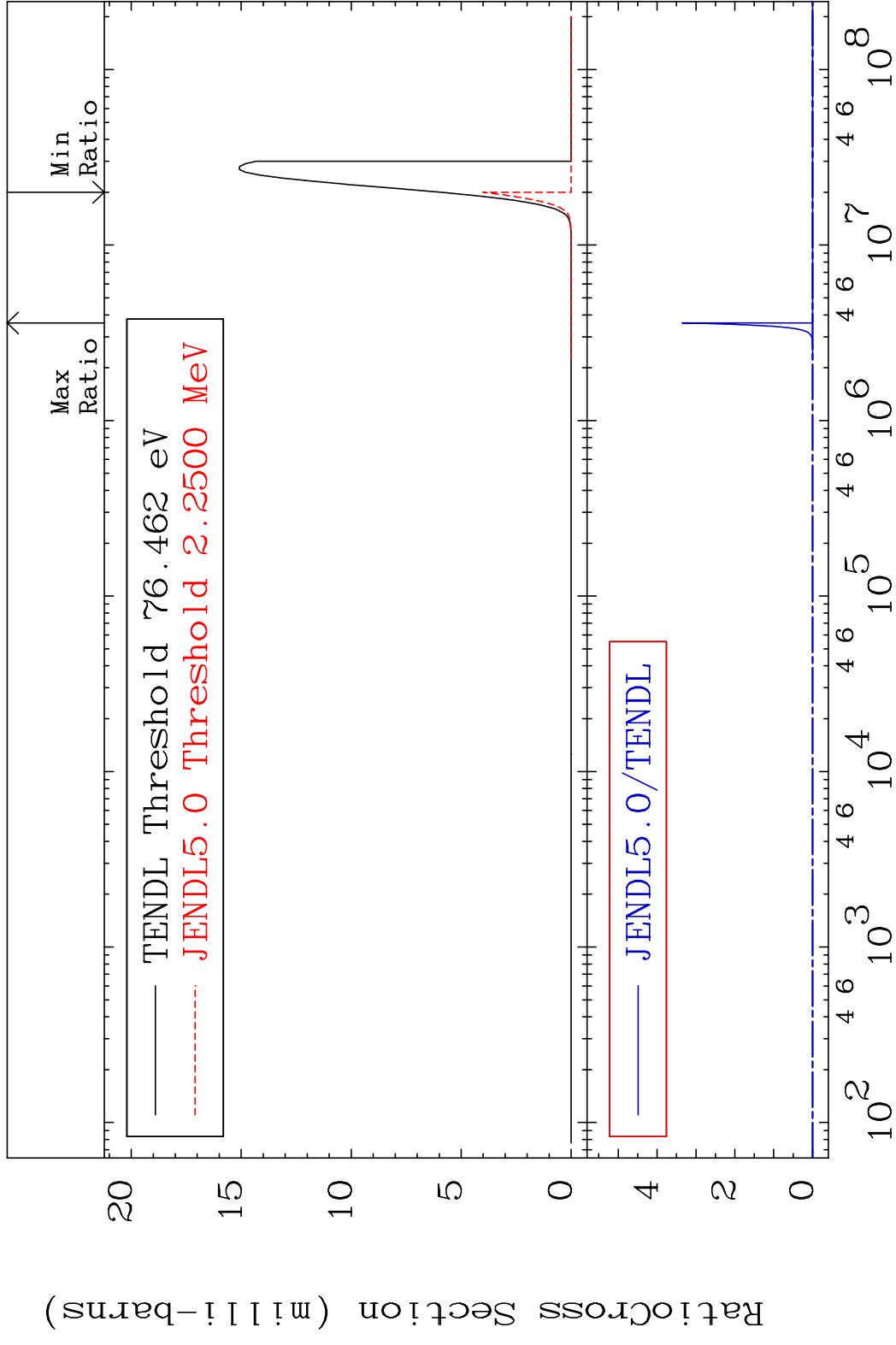


MAT 7122

(n, n')  $\alpha$

71-Lu-174

Cross Section -100.0 To 9999. %

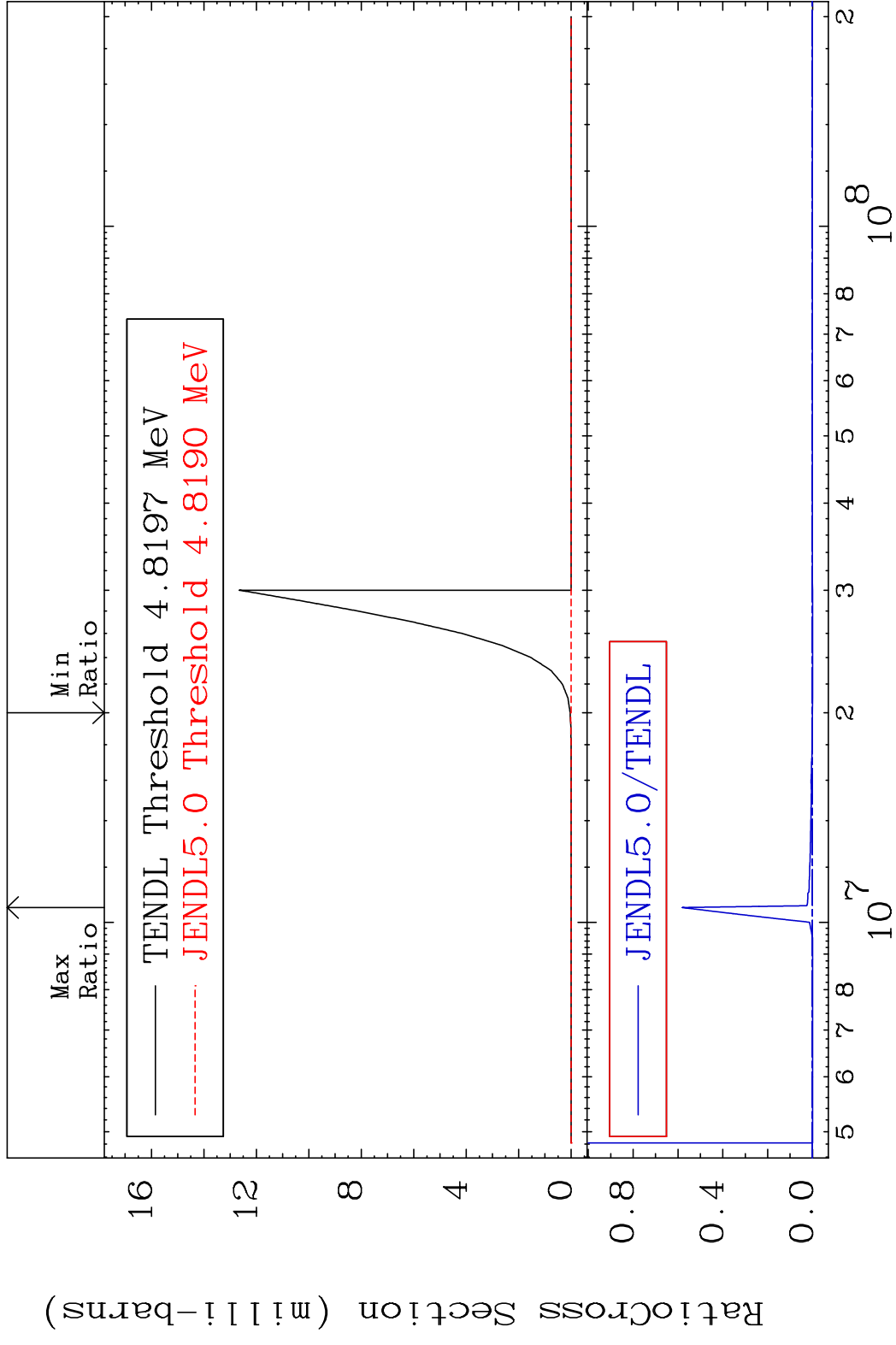


7

Incident Energy (eV)

71-Lu-174

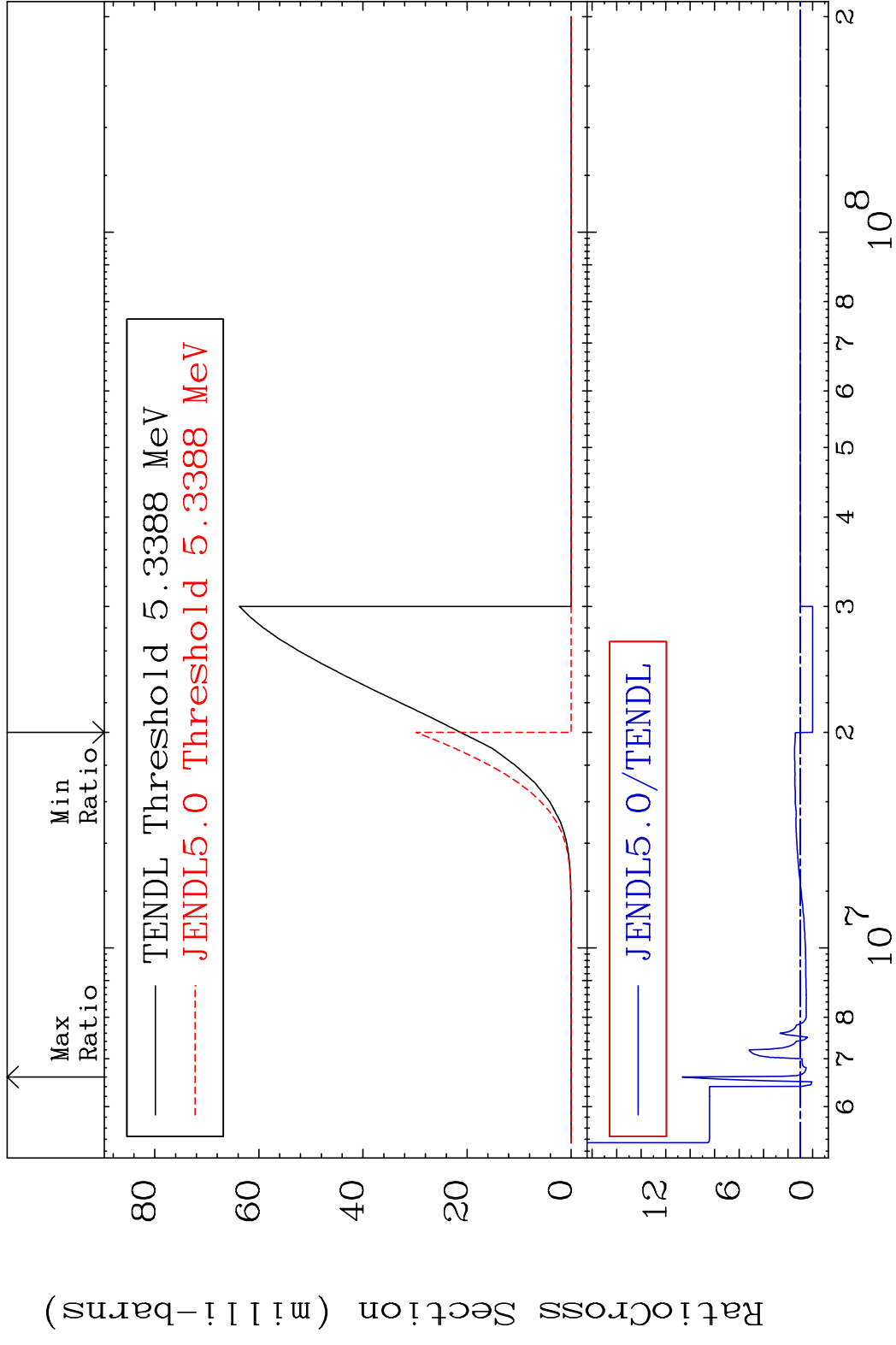
MAT 7122 (n,2n)  $\alpha$  71-Lu-174  
 Cross Section -100.0 To 9999. %



MAT 7122

(n, n') p 71-Lu-174

Cross Section -100.0 To 963.5 %

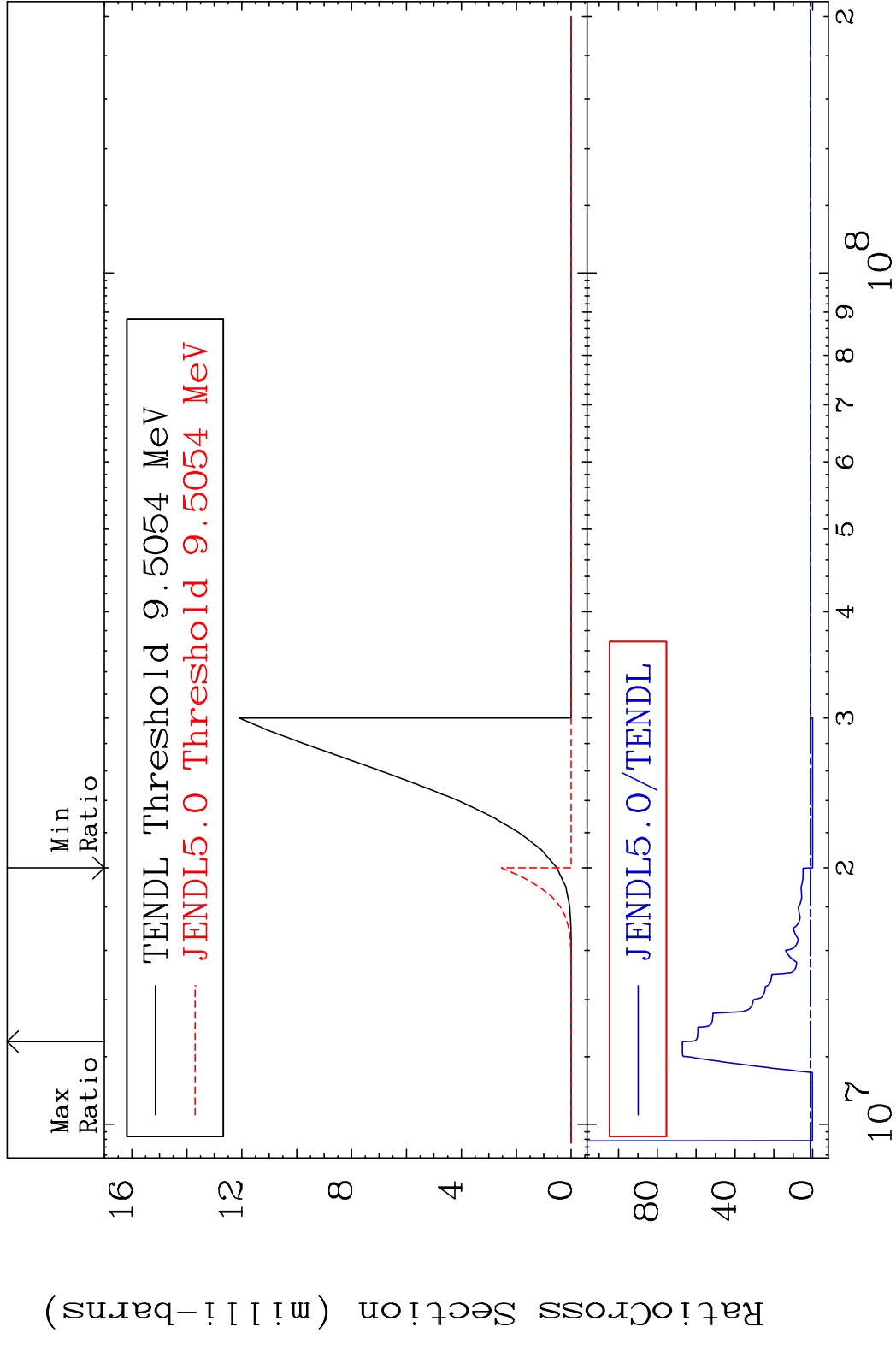


MAT 7122

(n, n') d

71-Lu-174

Cross Section -100.0 To 6612. %

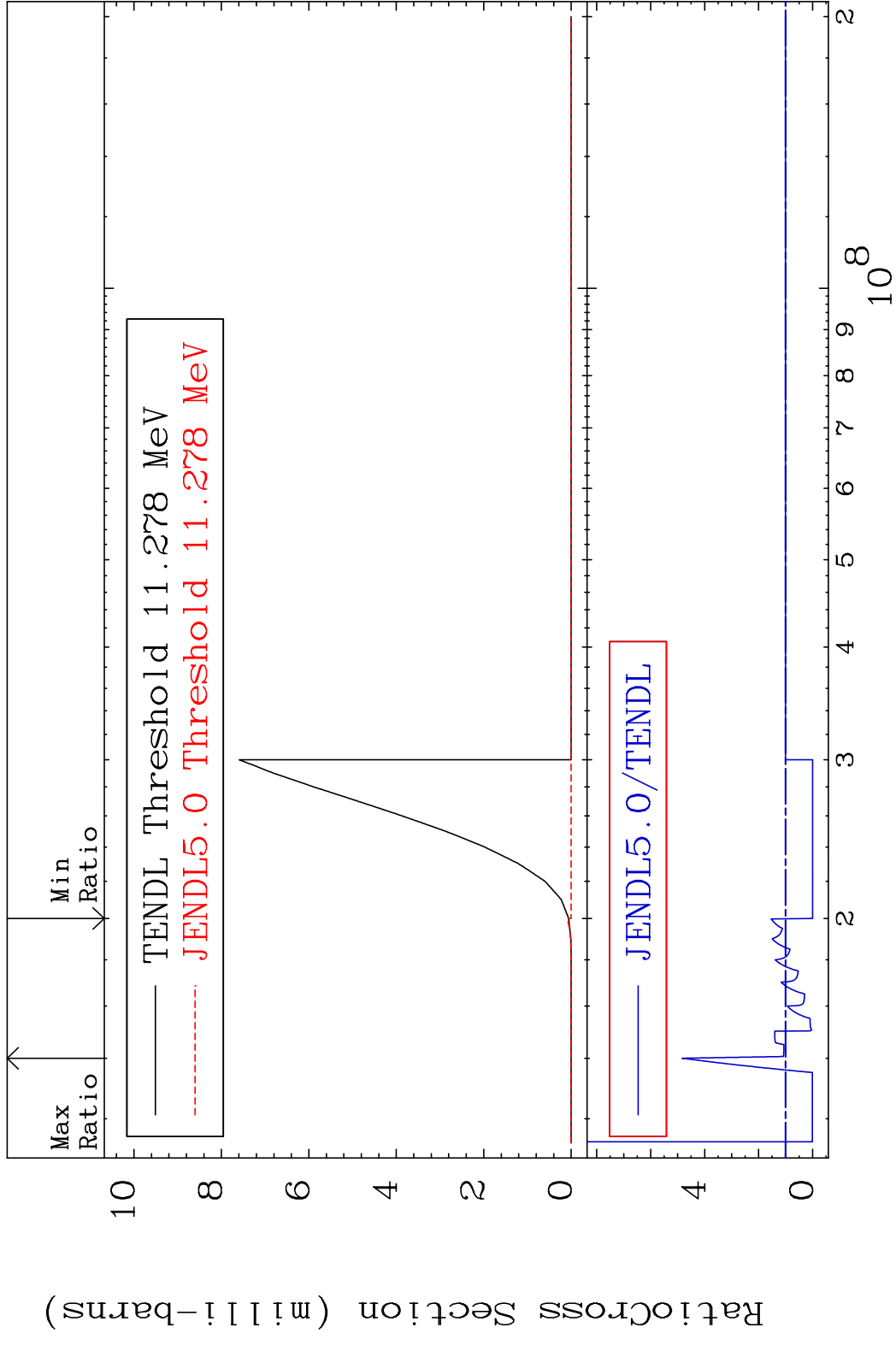


10

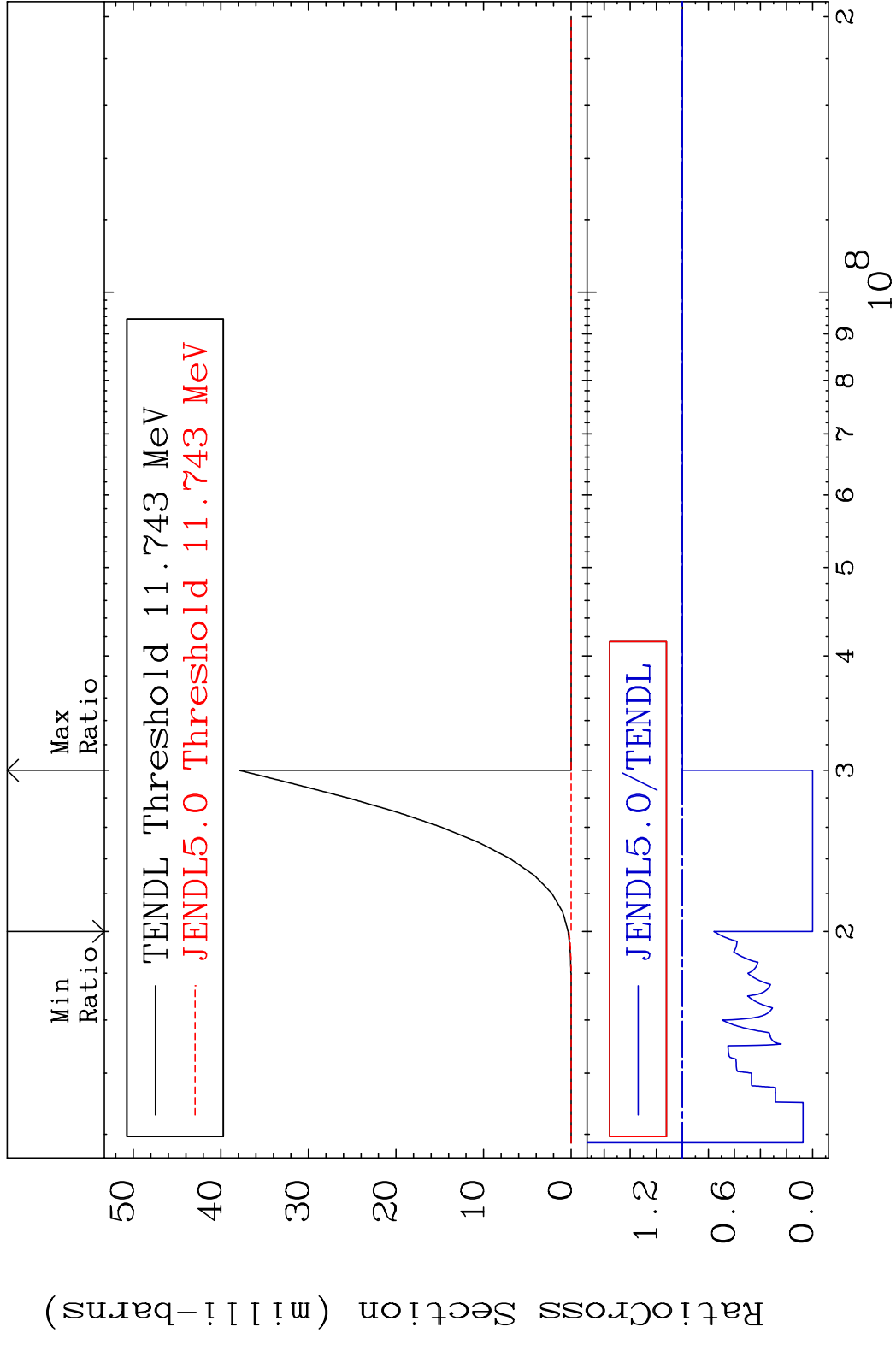
Incident Energy (eV)

71-Lu-174

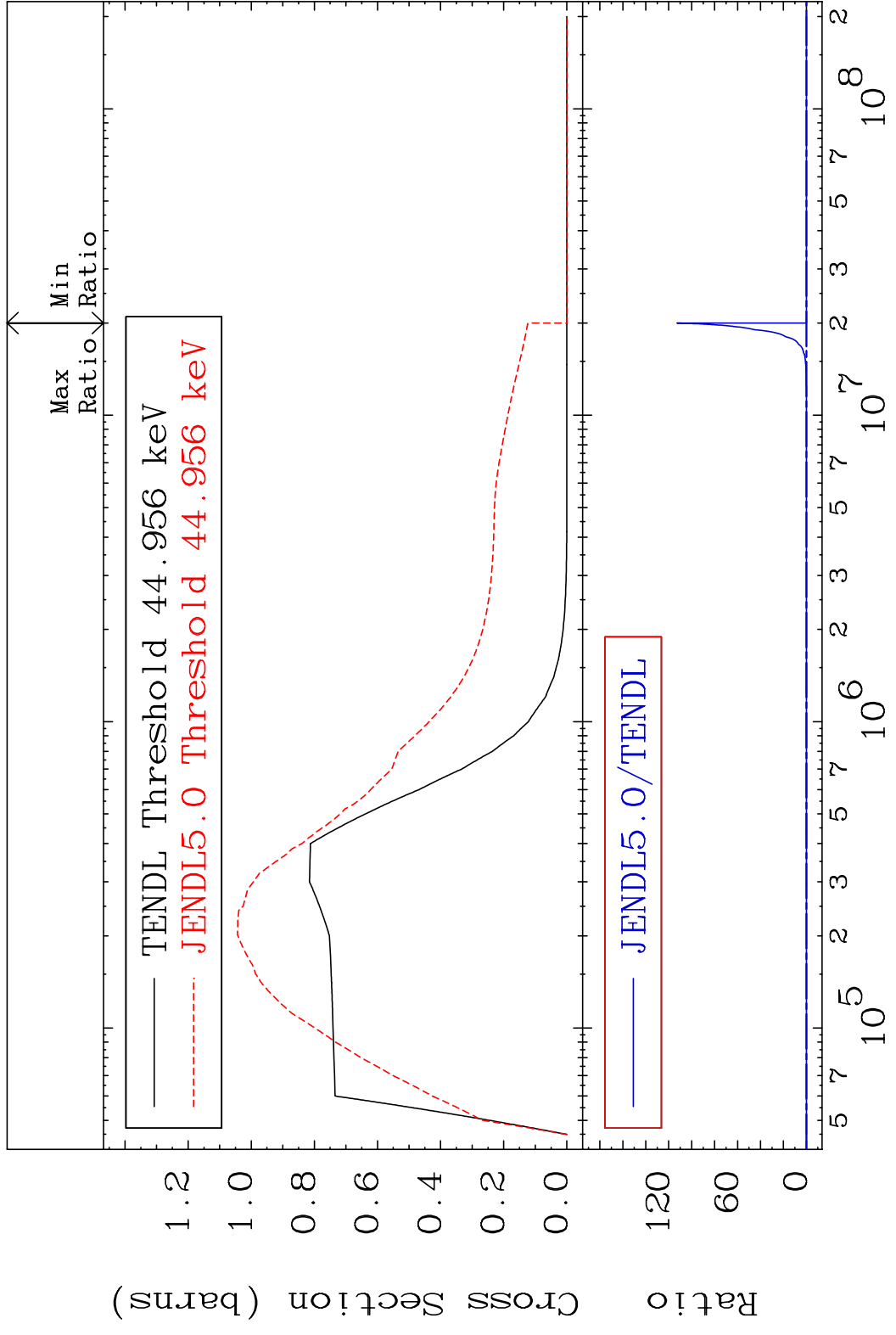
MAT 7122 (n, n') t 71-Lu-174  
 Cross Section -100.0 To 382.6 %



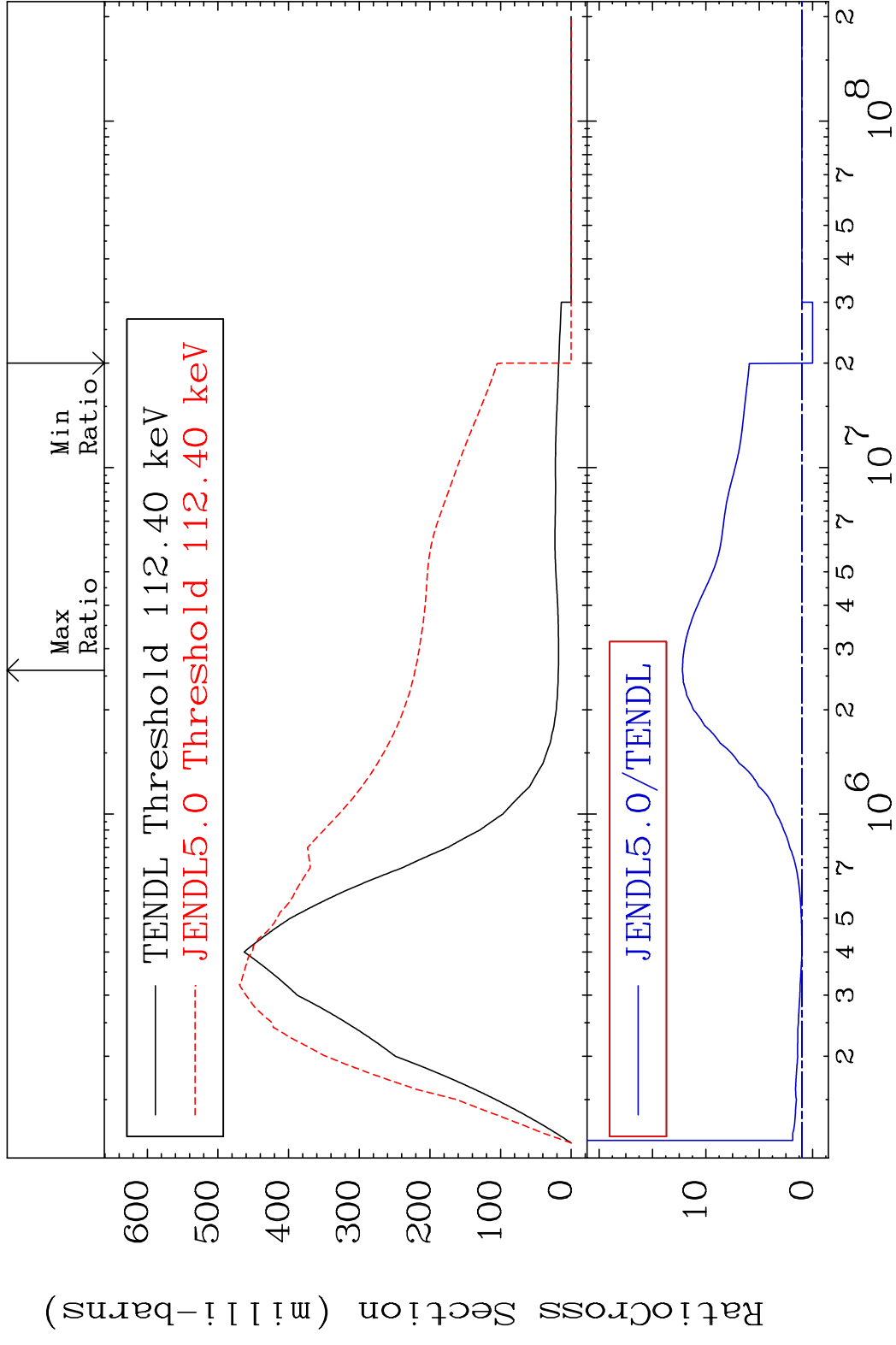
MAT 7122 (n,2n) p 71-Lu-174  
 Cross Section -100.0 To 0.000 %



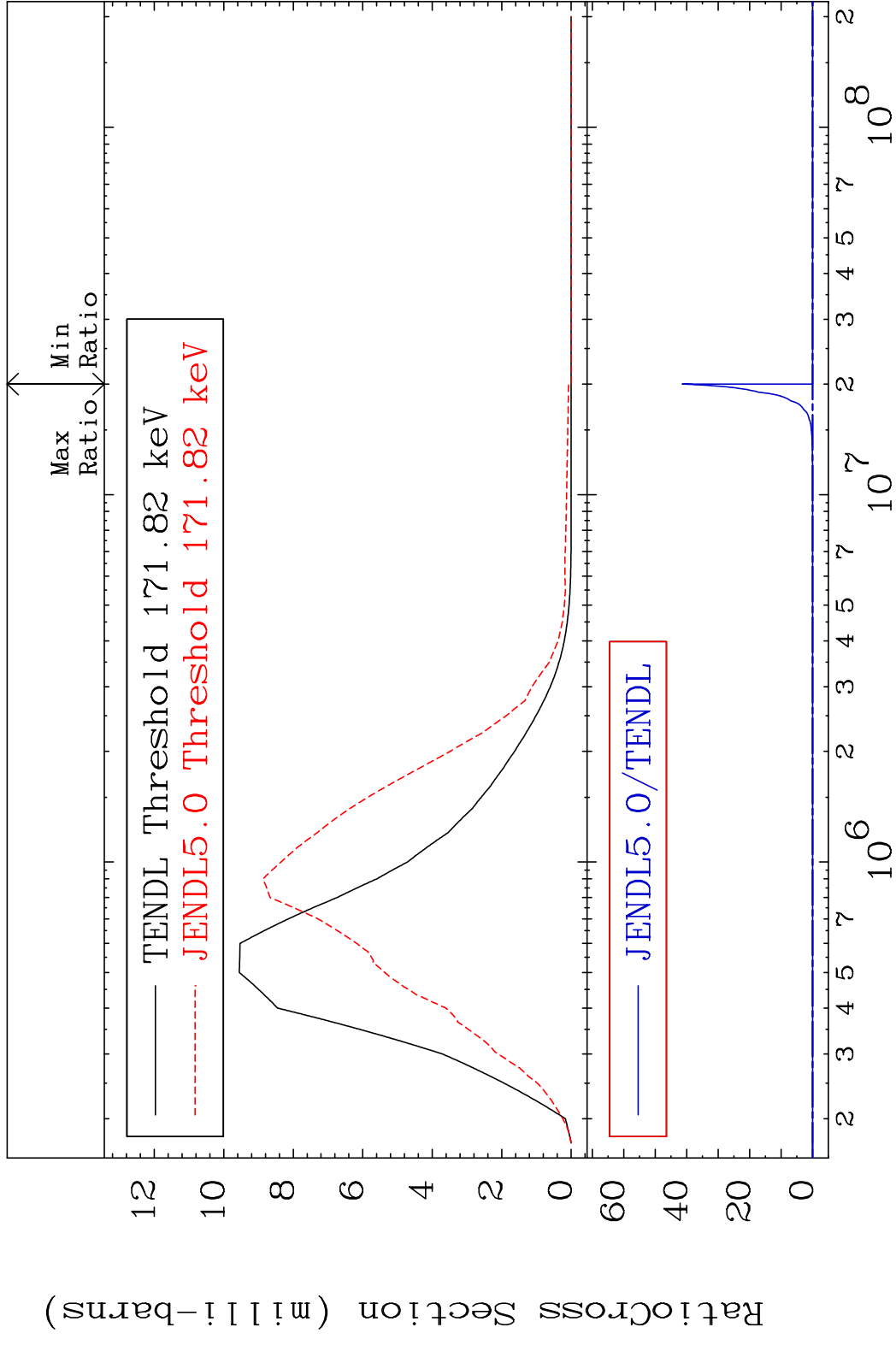
MAT 7122 MT= 51 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



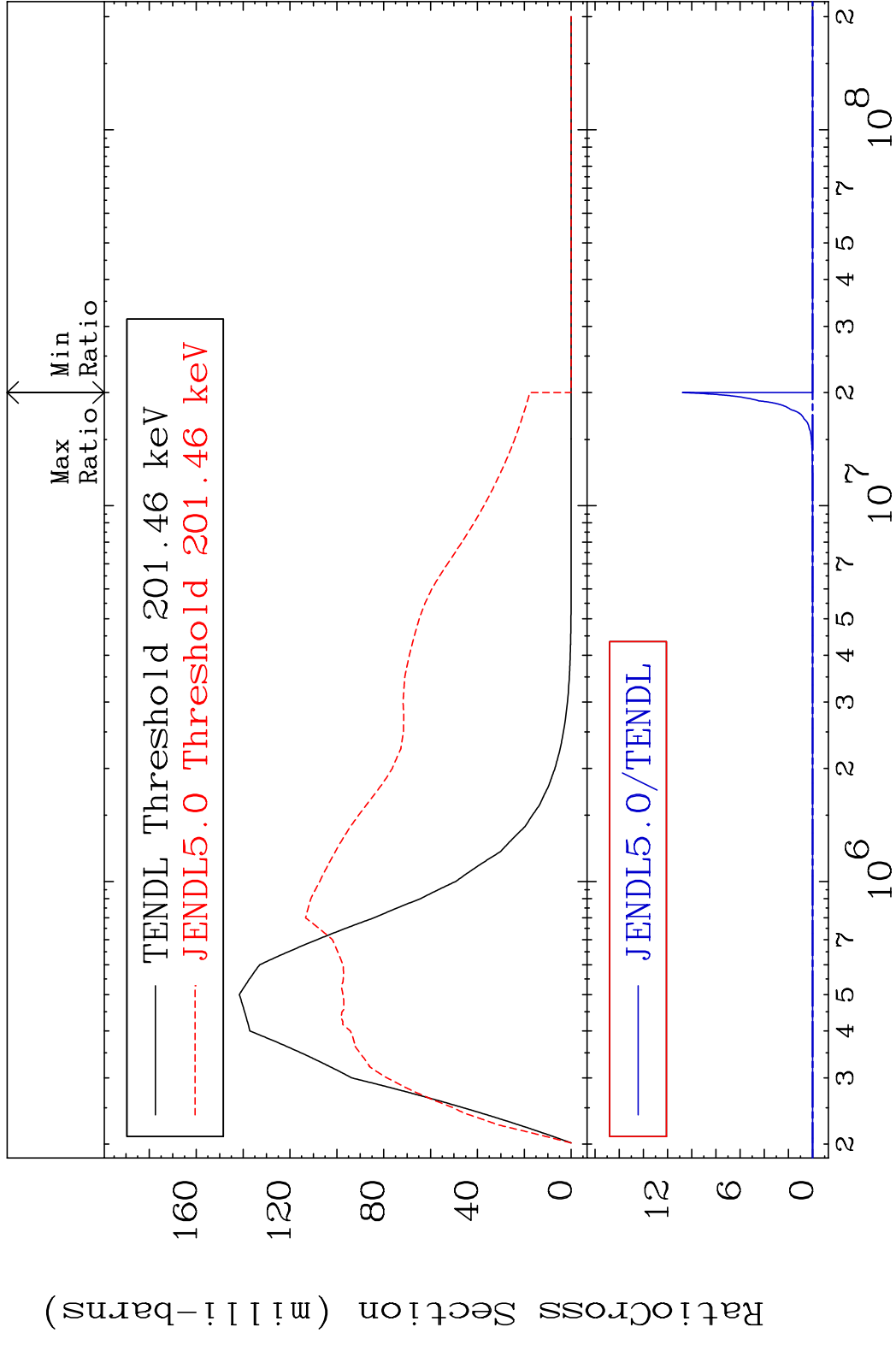
MAT 7122 MT= 52 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 1120. %



MAT 7122 MT= 53 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %

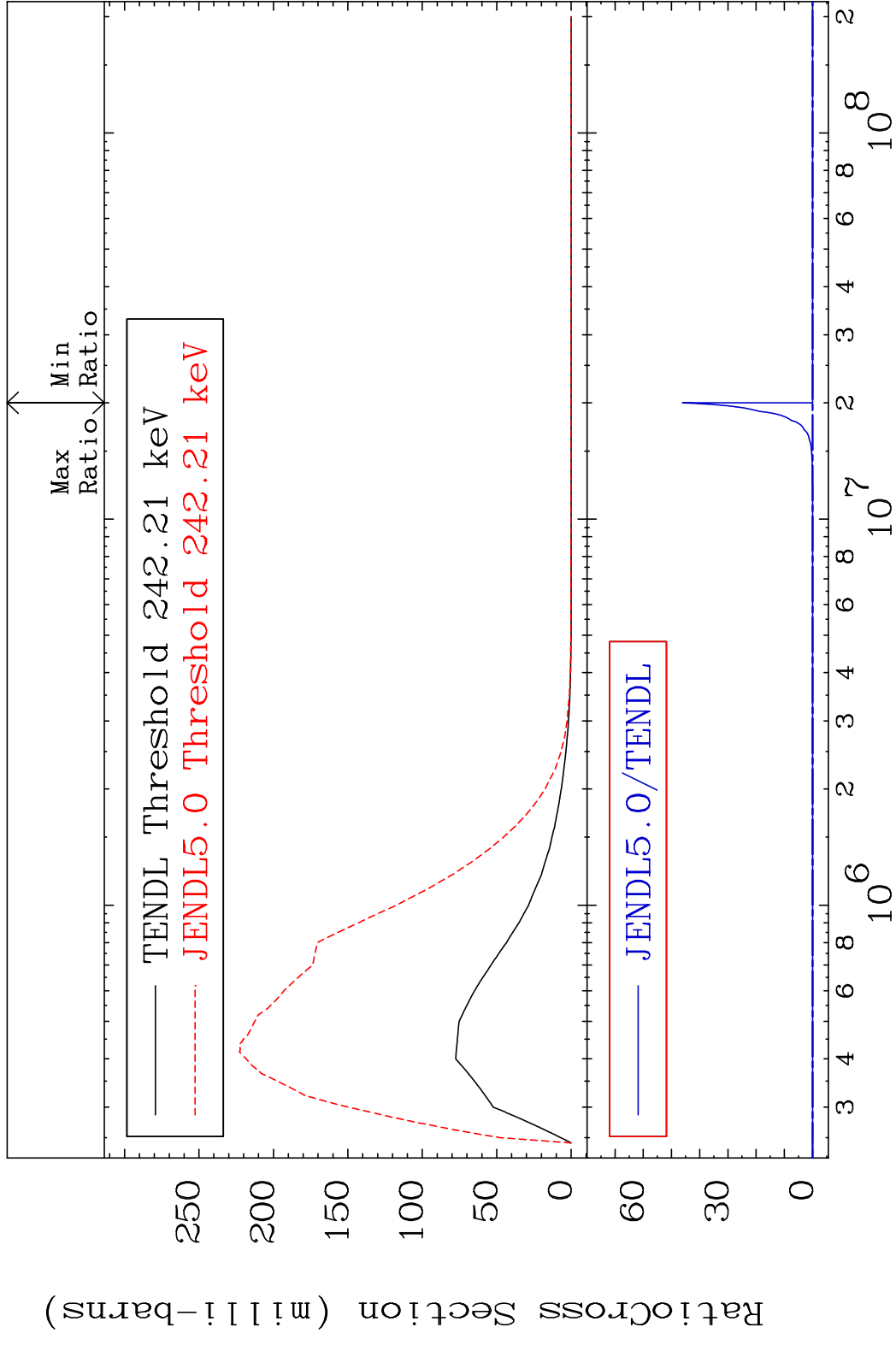


MAT 7122 MT= 54 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %

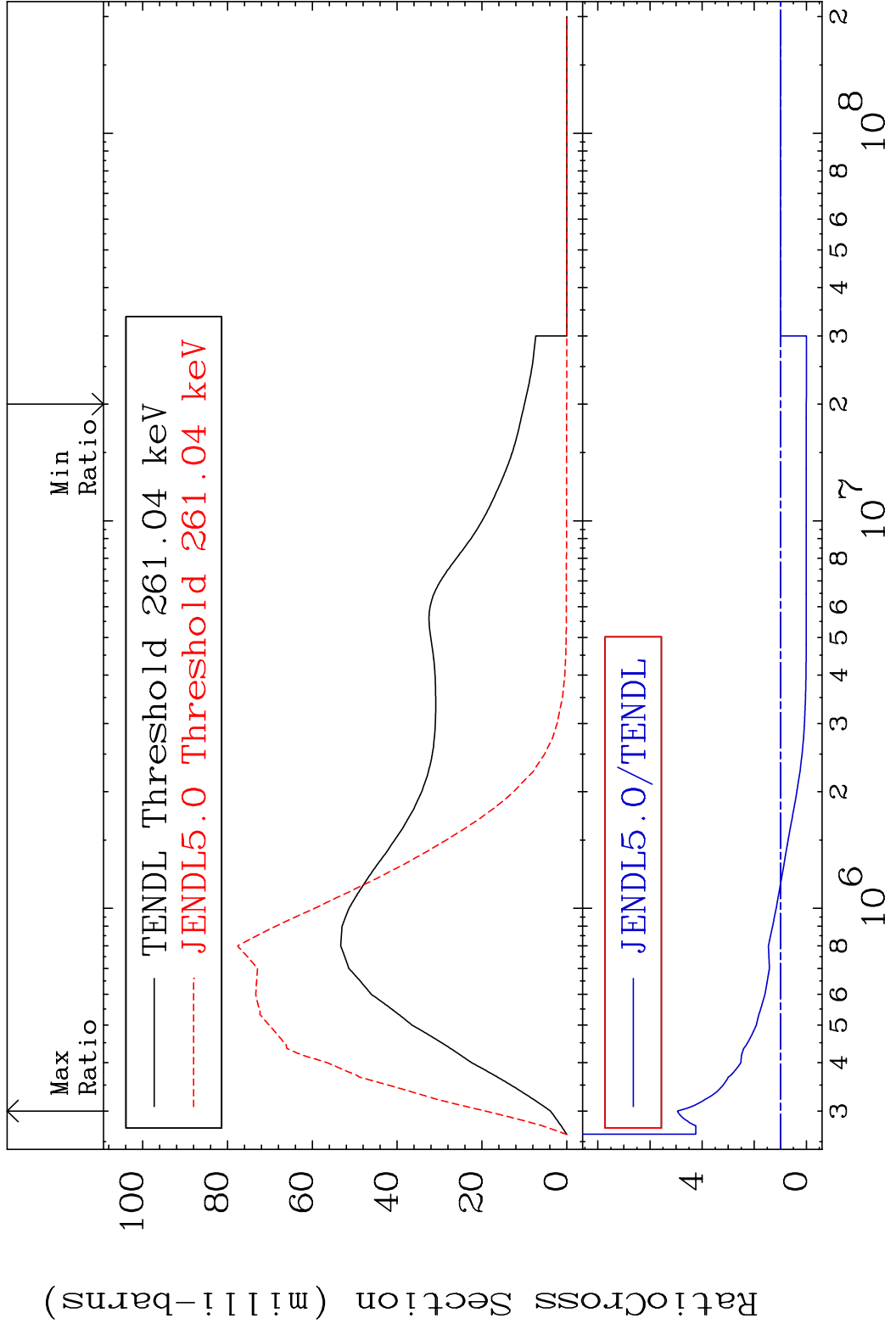


16 Incident Energy (eV) 71-Lu-174

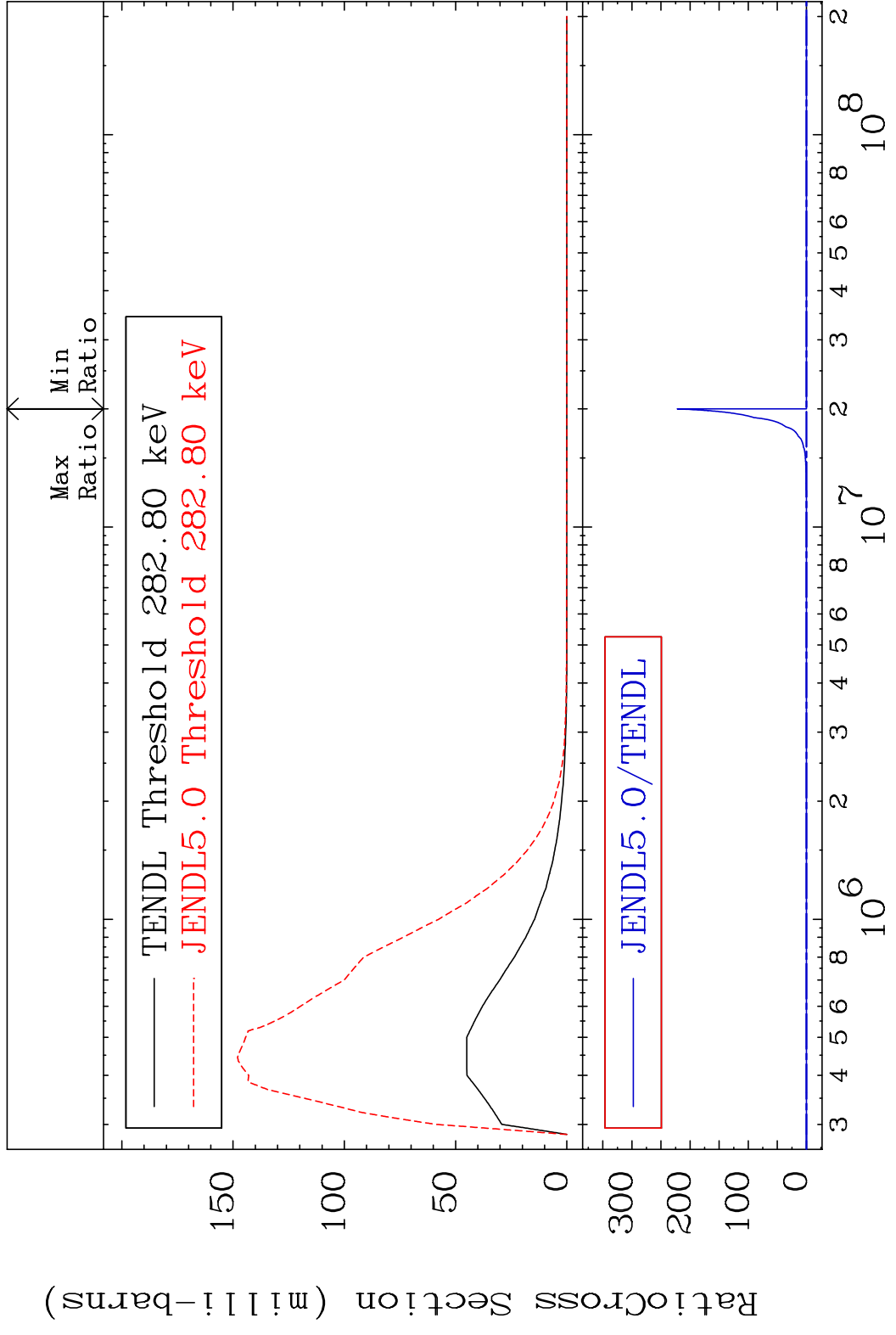
MAT 7122 MT= 55 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



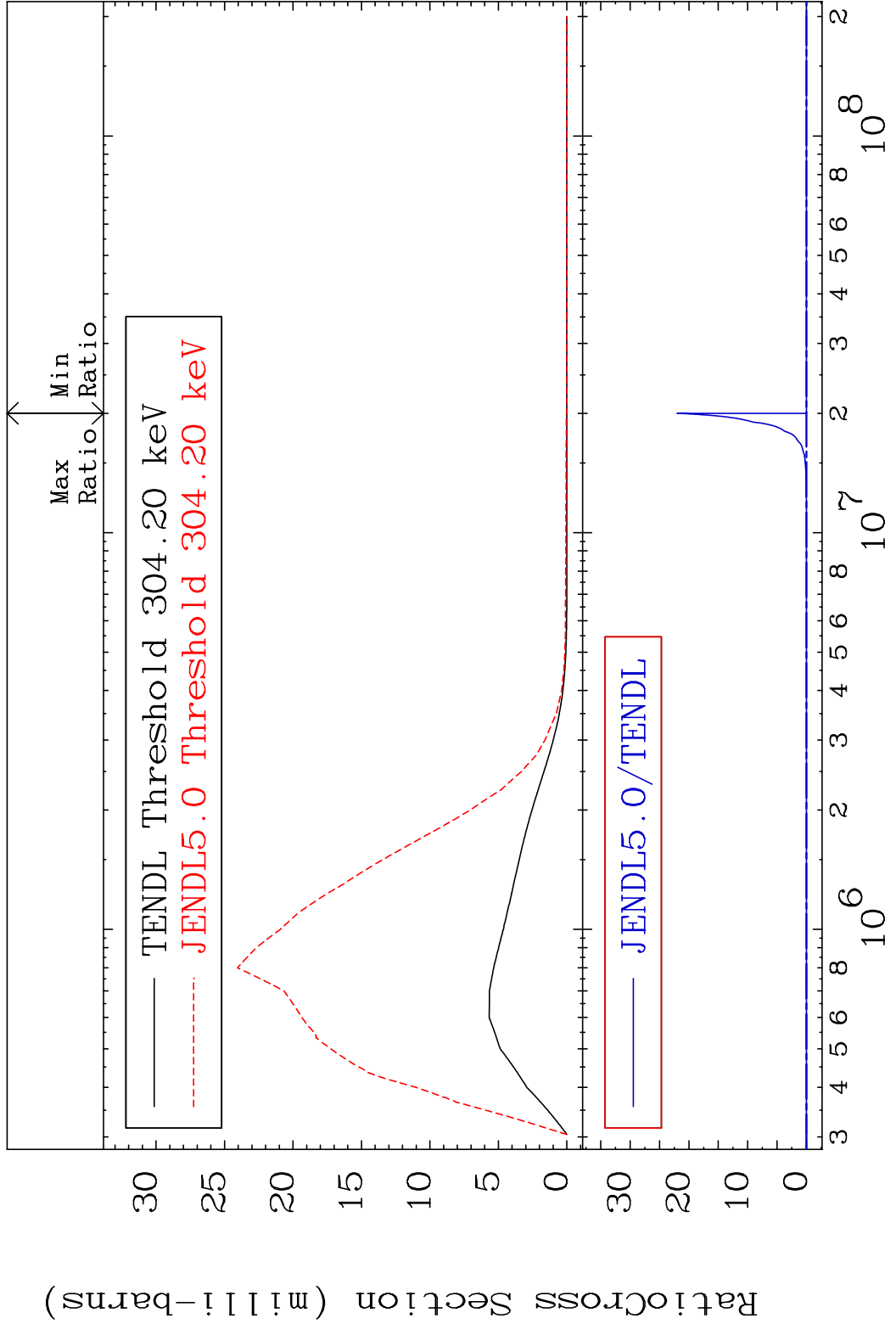
MAT 7122 MT= 56 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 395.6 %



MAT 7122 MT= 57 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %

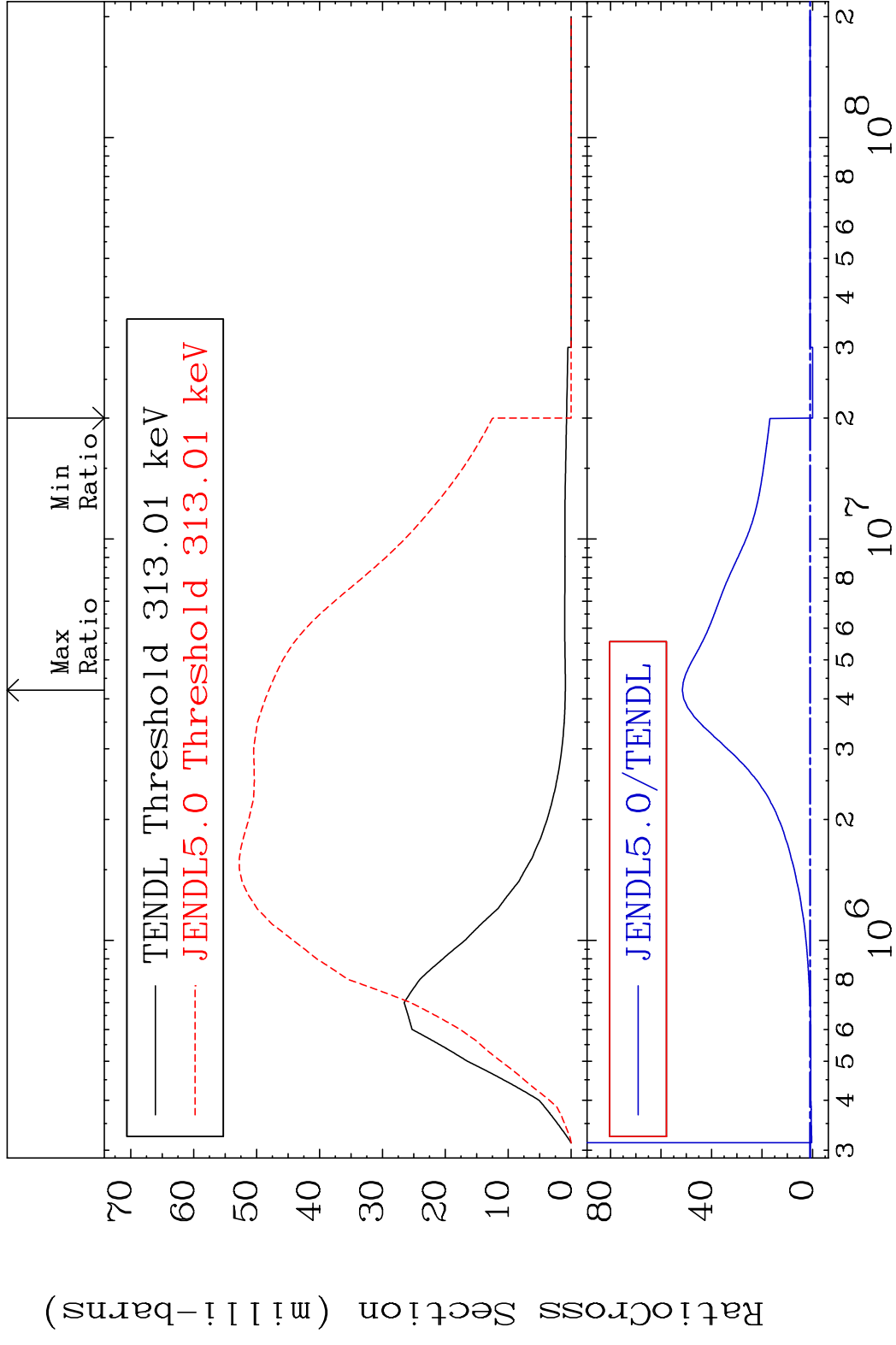


MAT 7122 MT= 58 (n,n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %

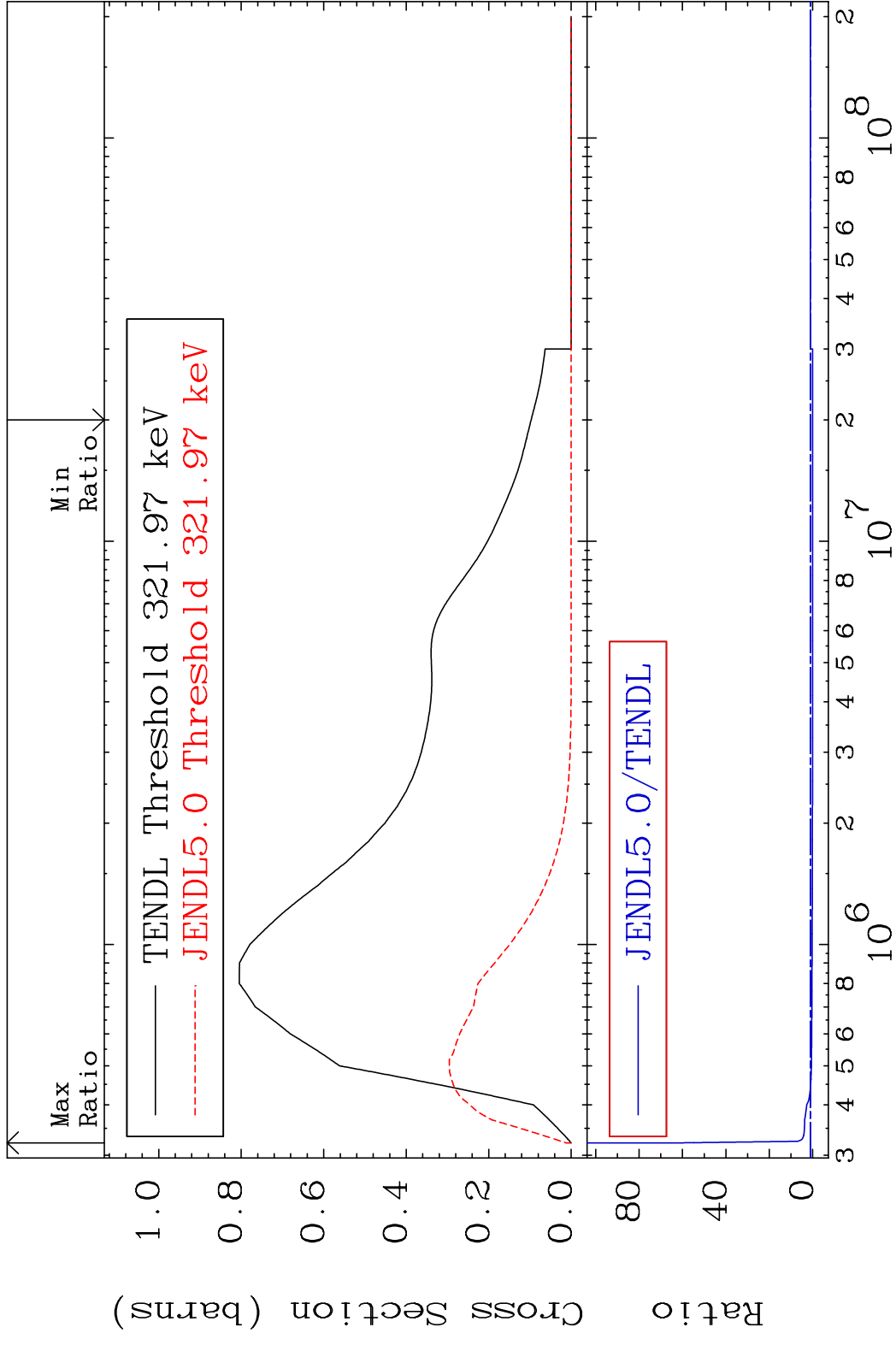


20 Incident Energy (eV) 71-Lu-174

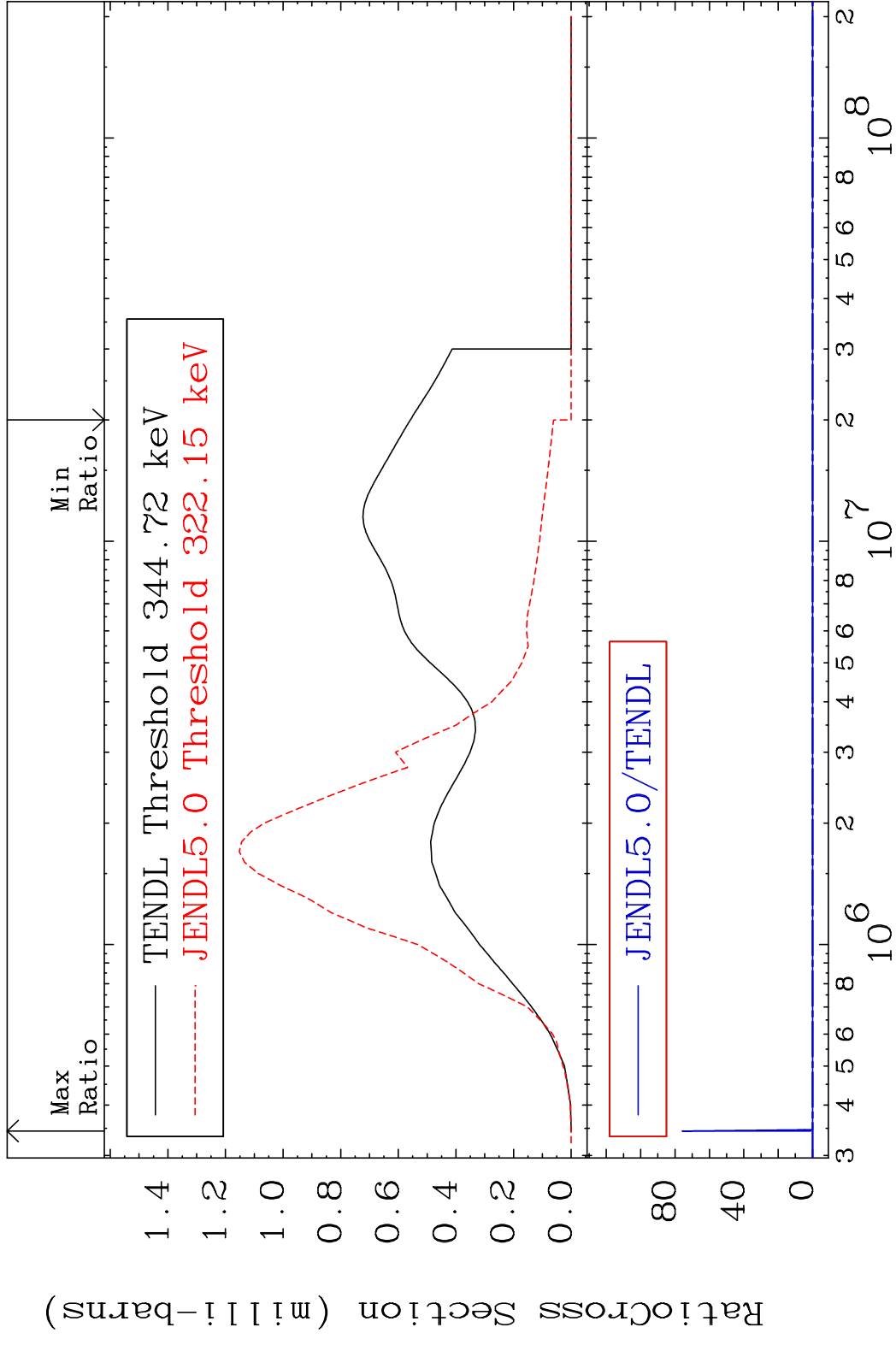
MAT 7122 MT= 59 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 5055. %



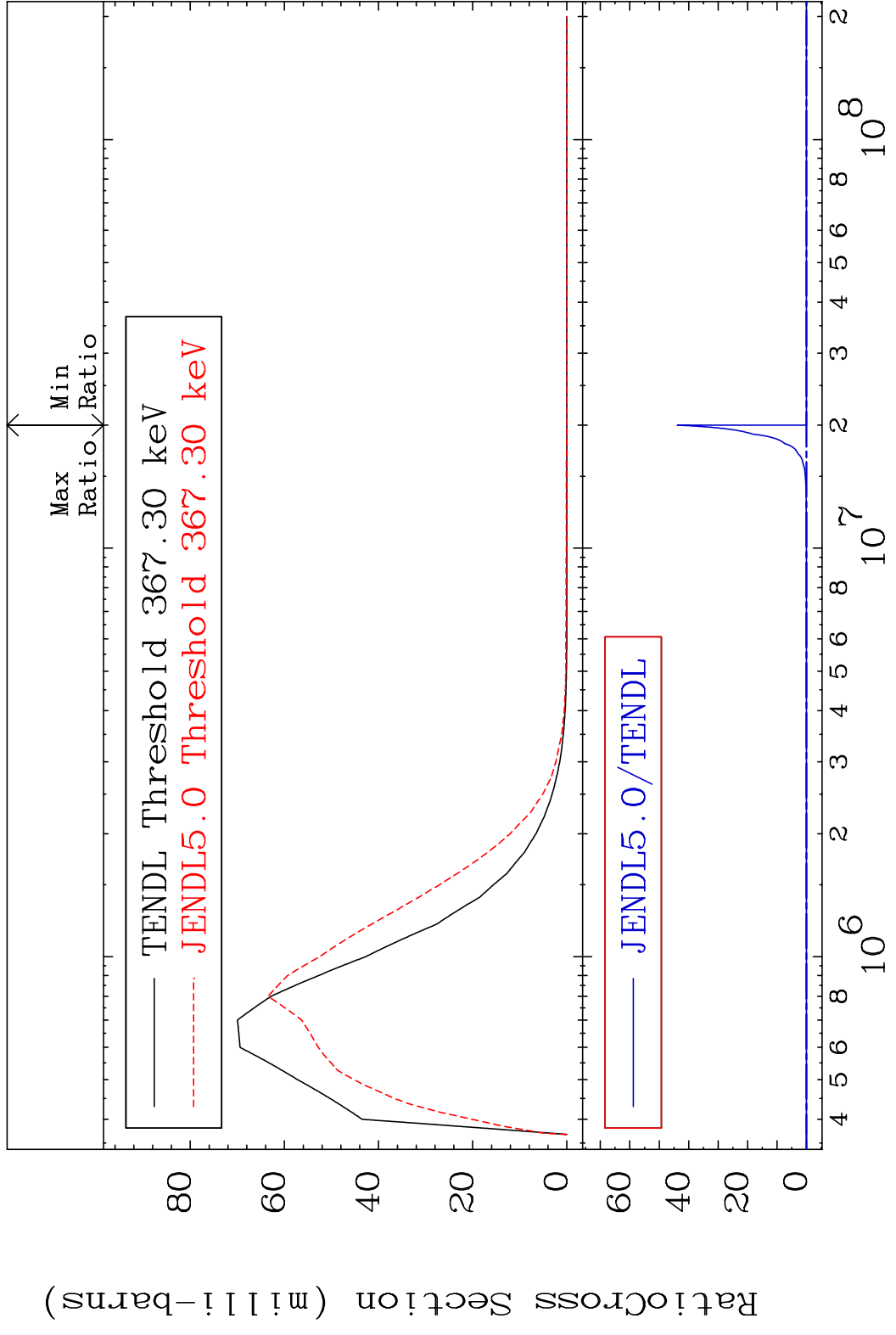
MAT 7122 MT= 60 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 5907. %



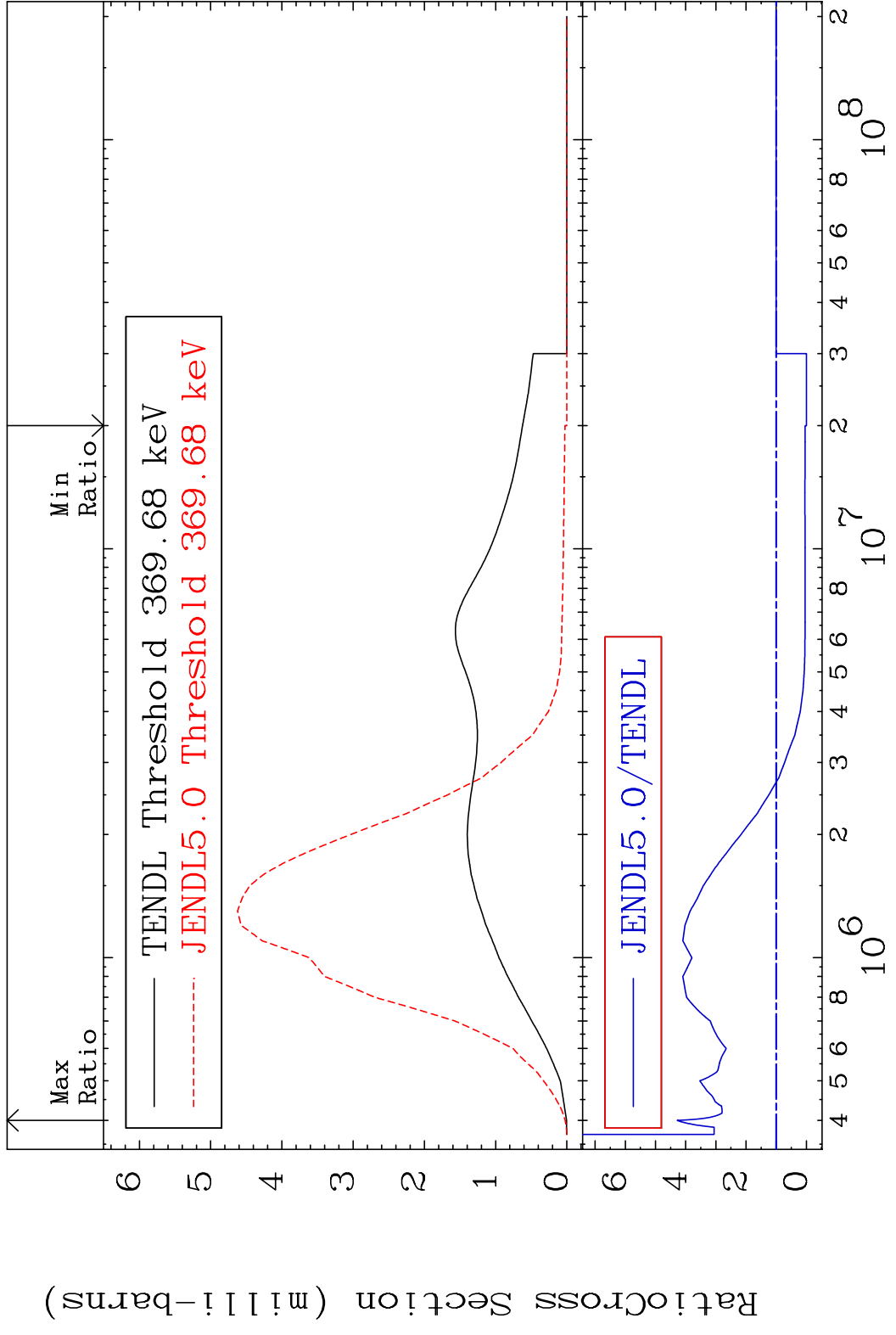
MAT 7122 MT= 61 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



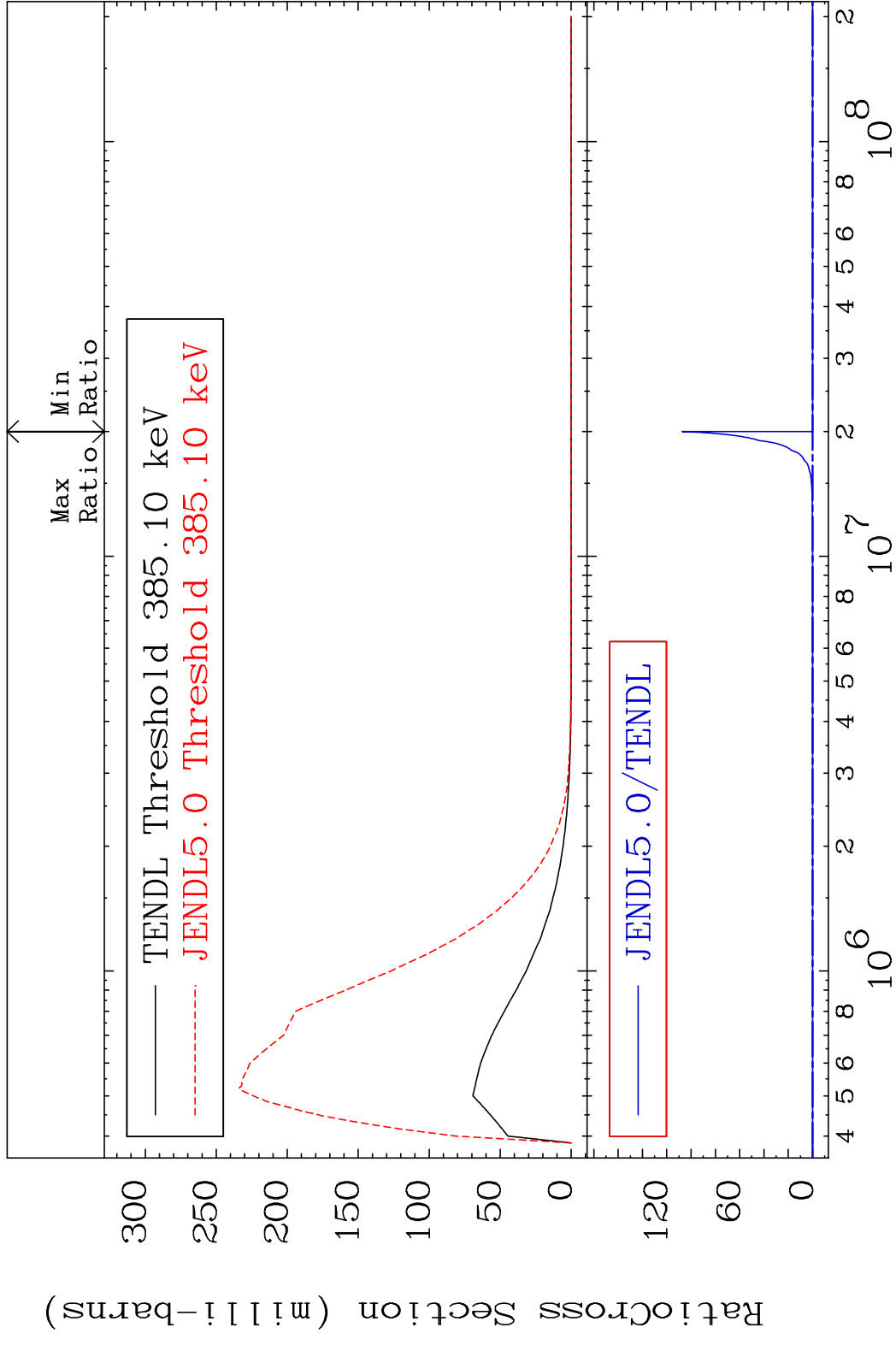
MAT 7122 MT= 62 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



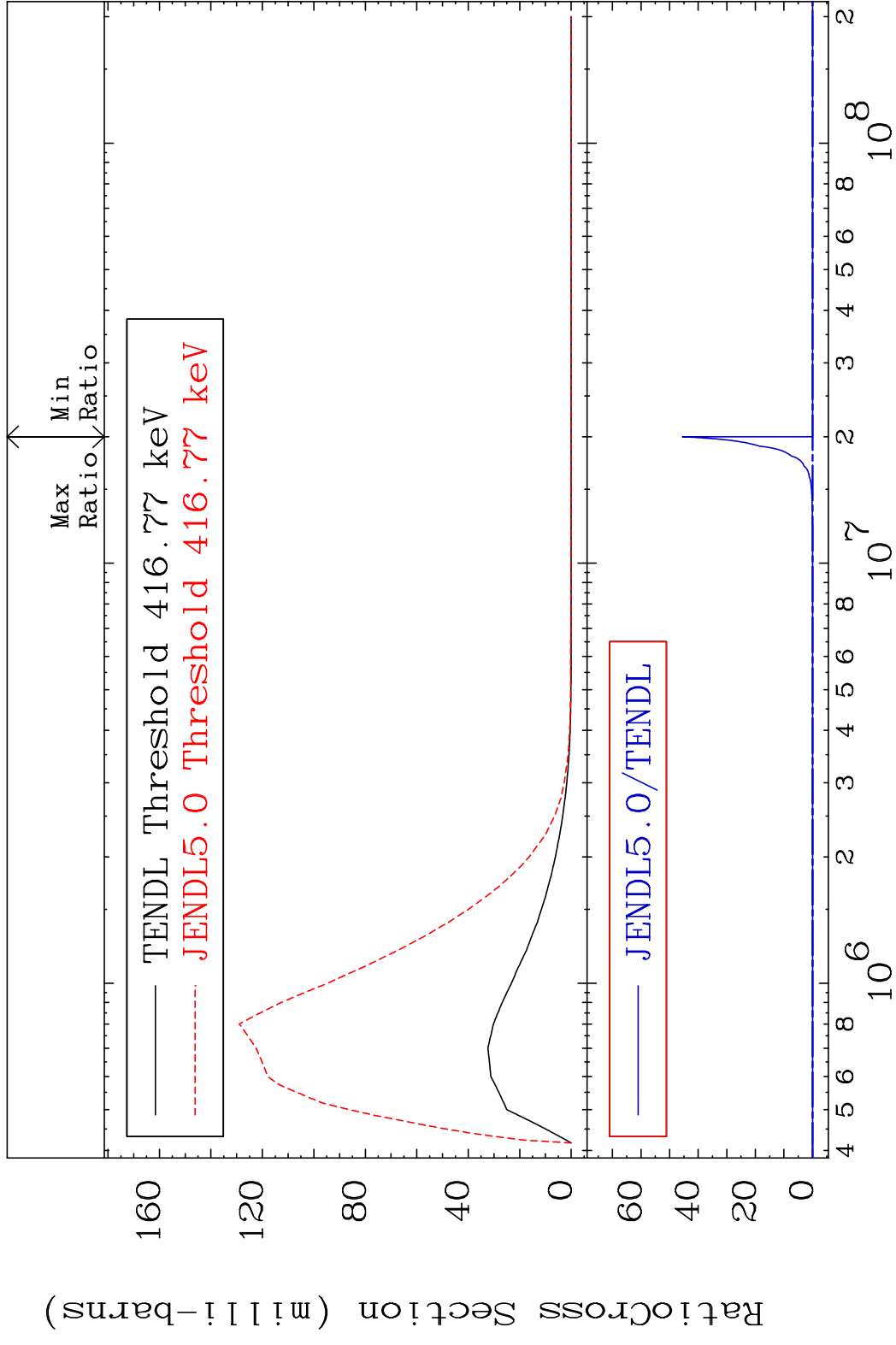
MAT 7122 MT= 63 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 328.2 %



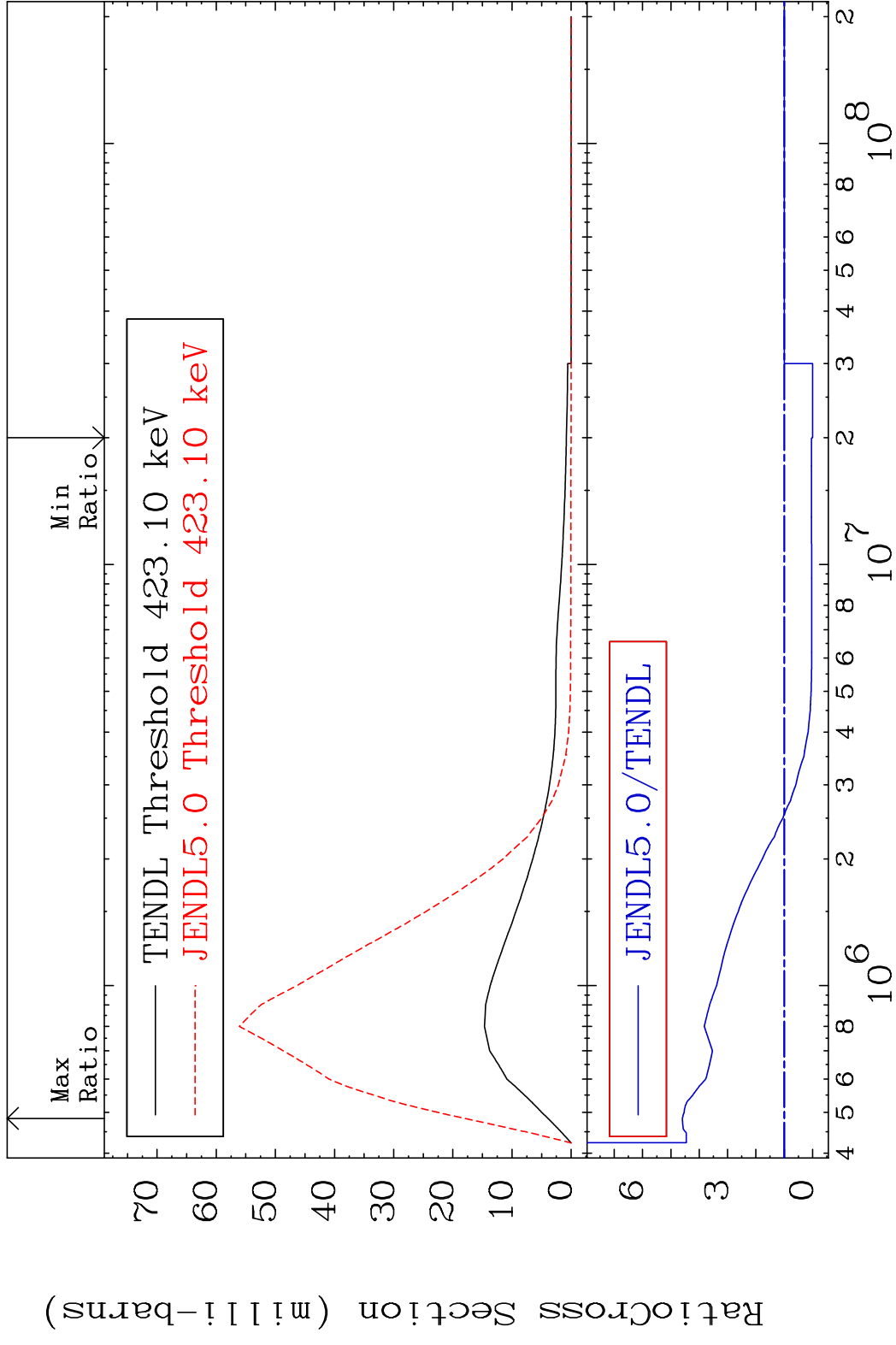
MAT 7122 MT= 64 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



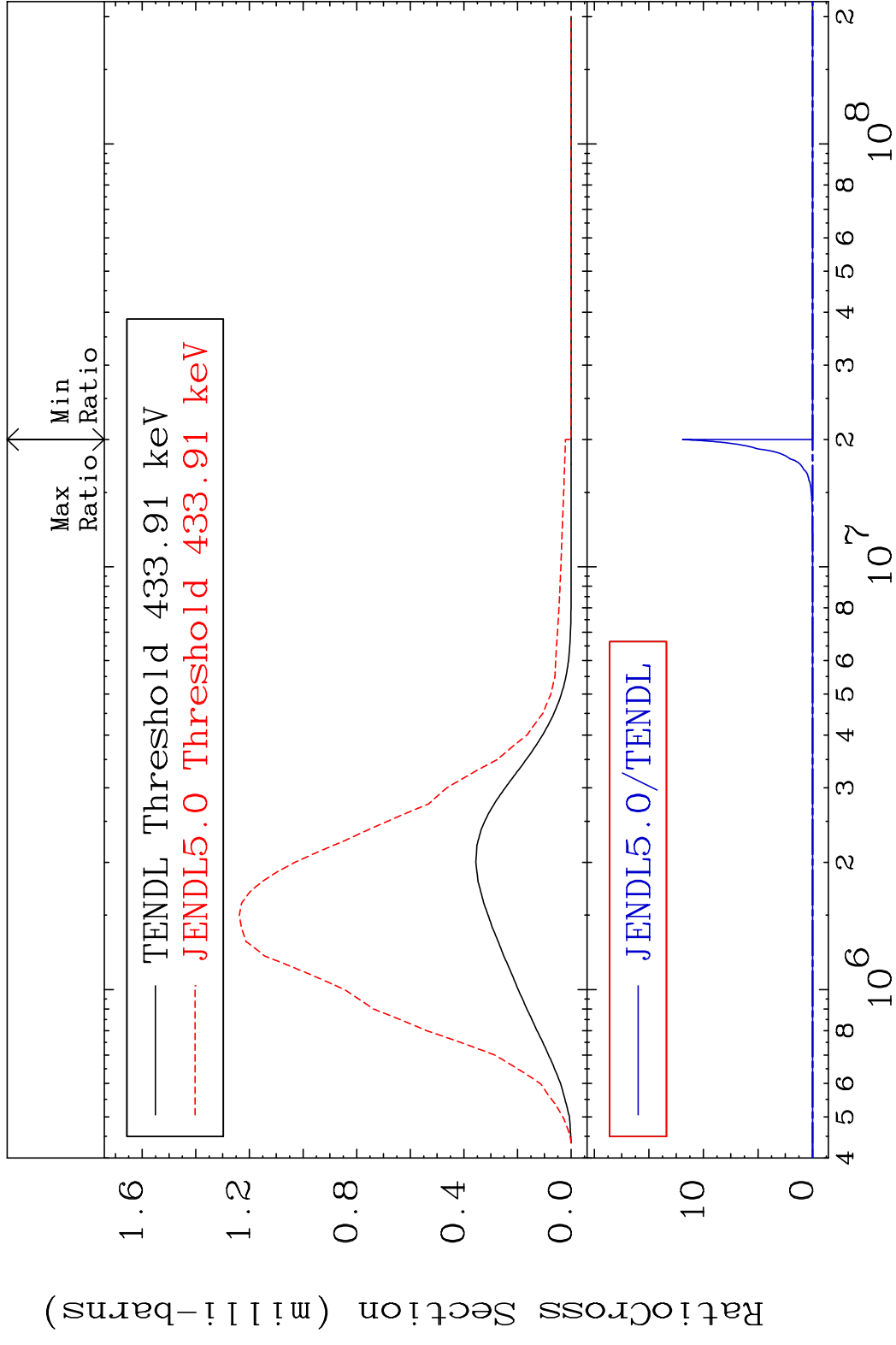
MAT 7122 MT= 65 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



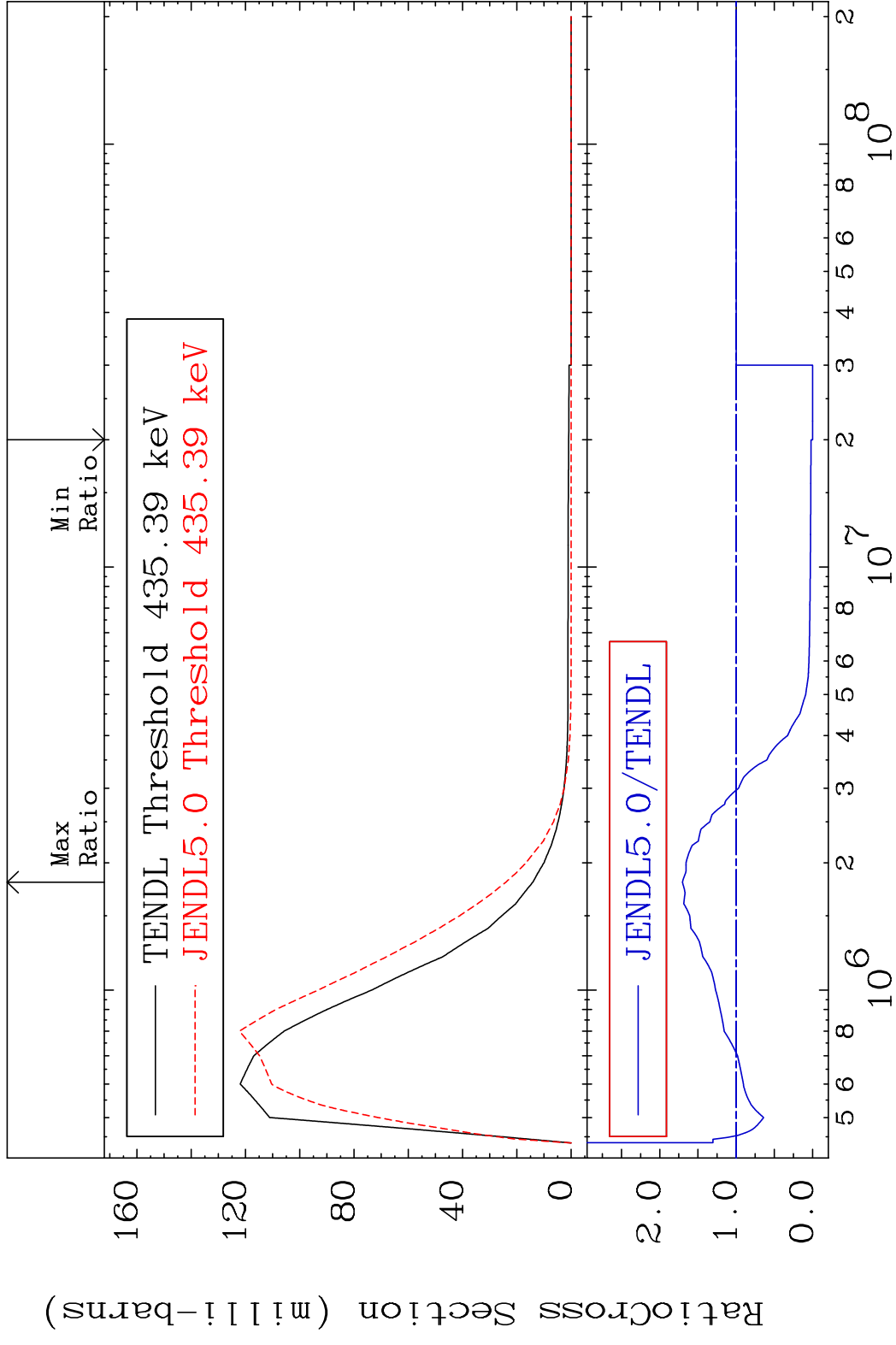
MAT 7122 MT= 66 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 359.6 %



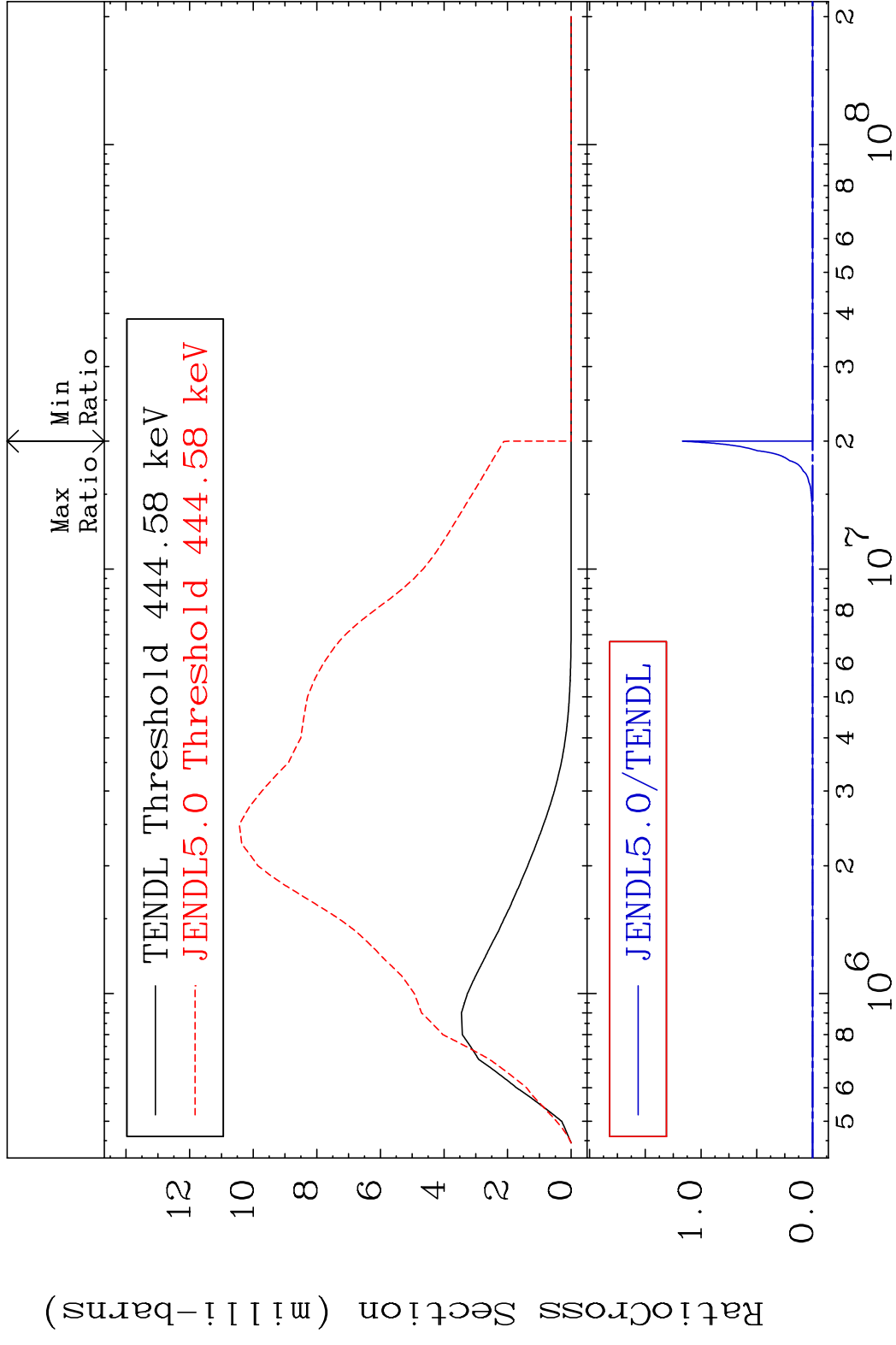
MAT 7122 MT= 67 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



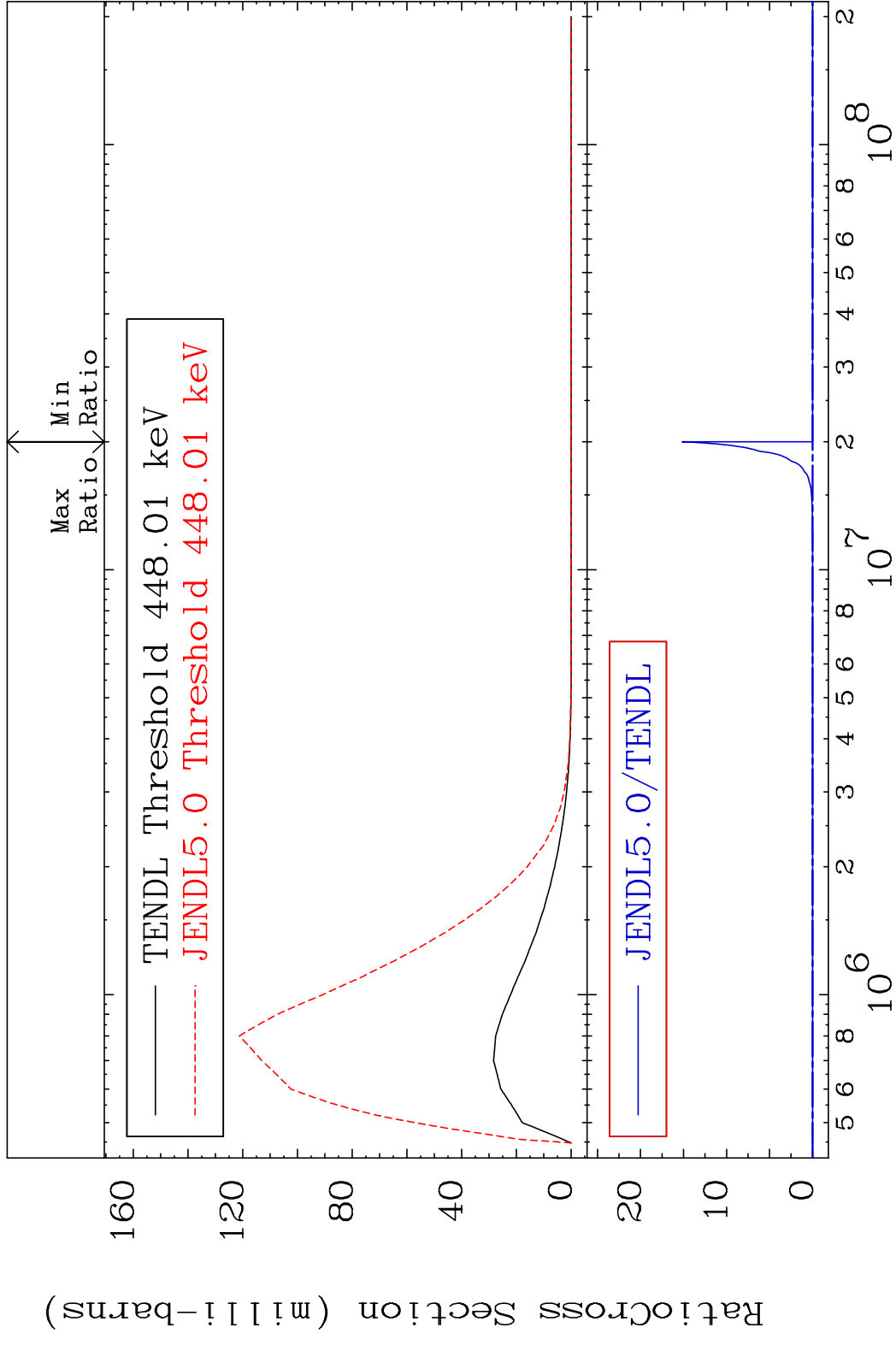
MAT 7122 MT= 68 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 70.37 %



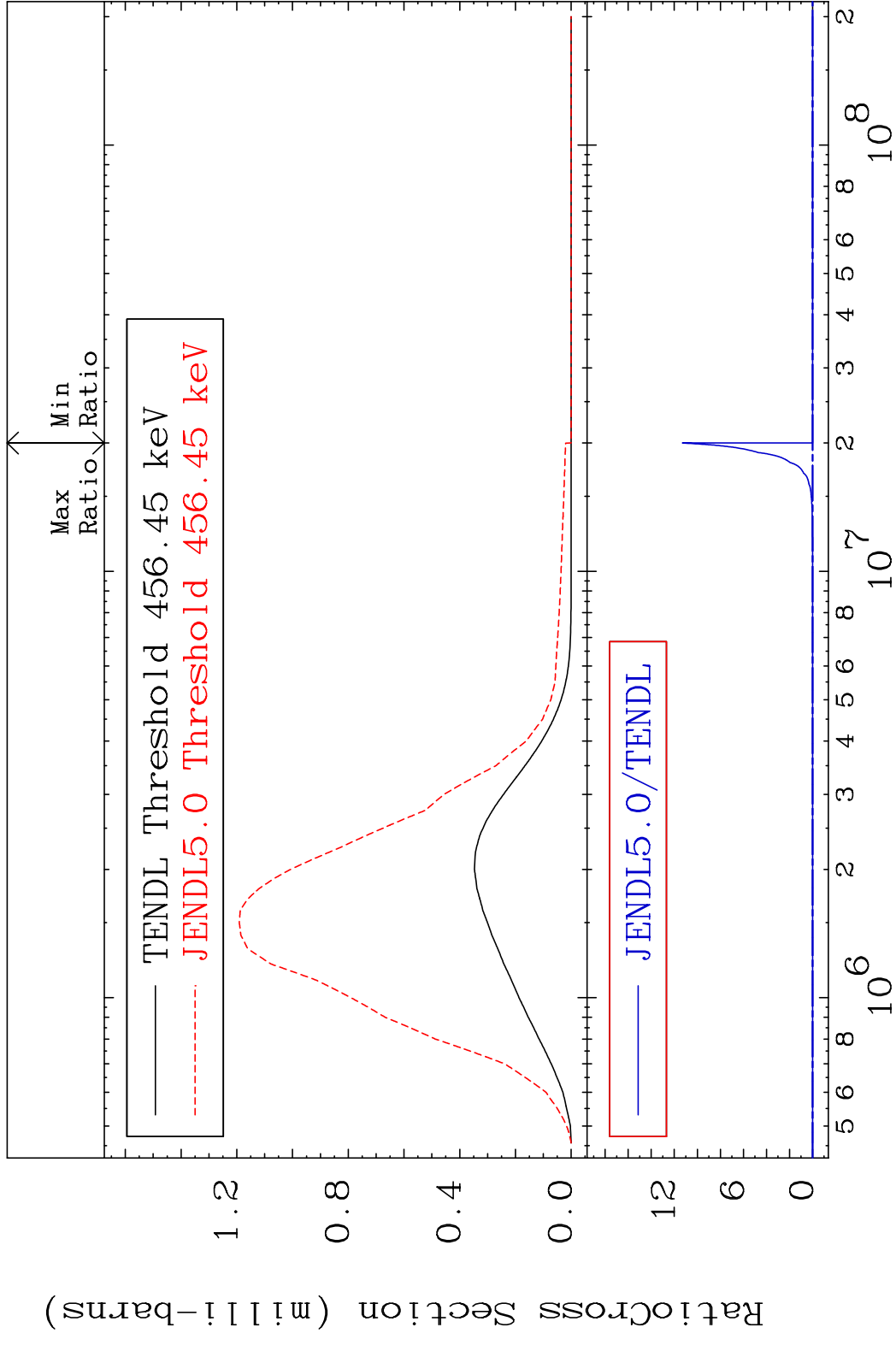
MAT 7122 MT= 69 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



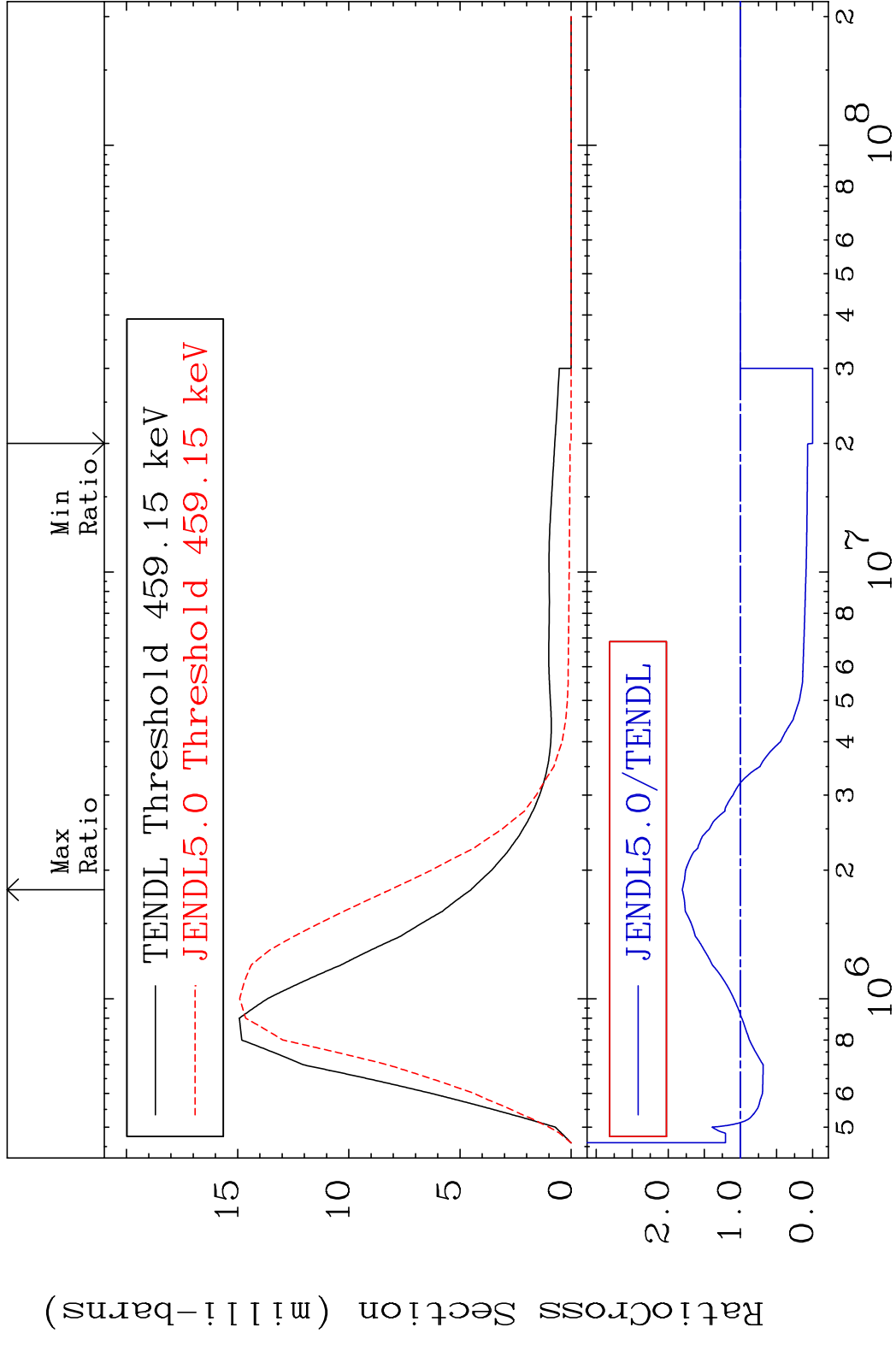
MAT 7122 MT= 70 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



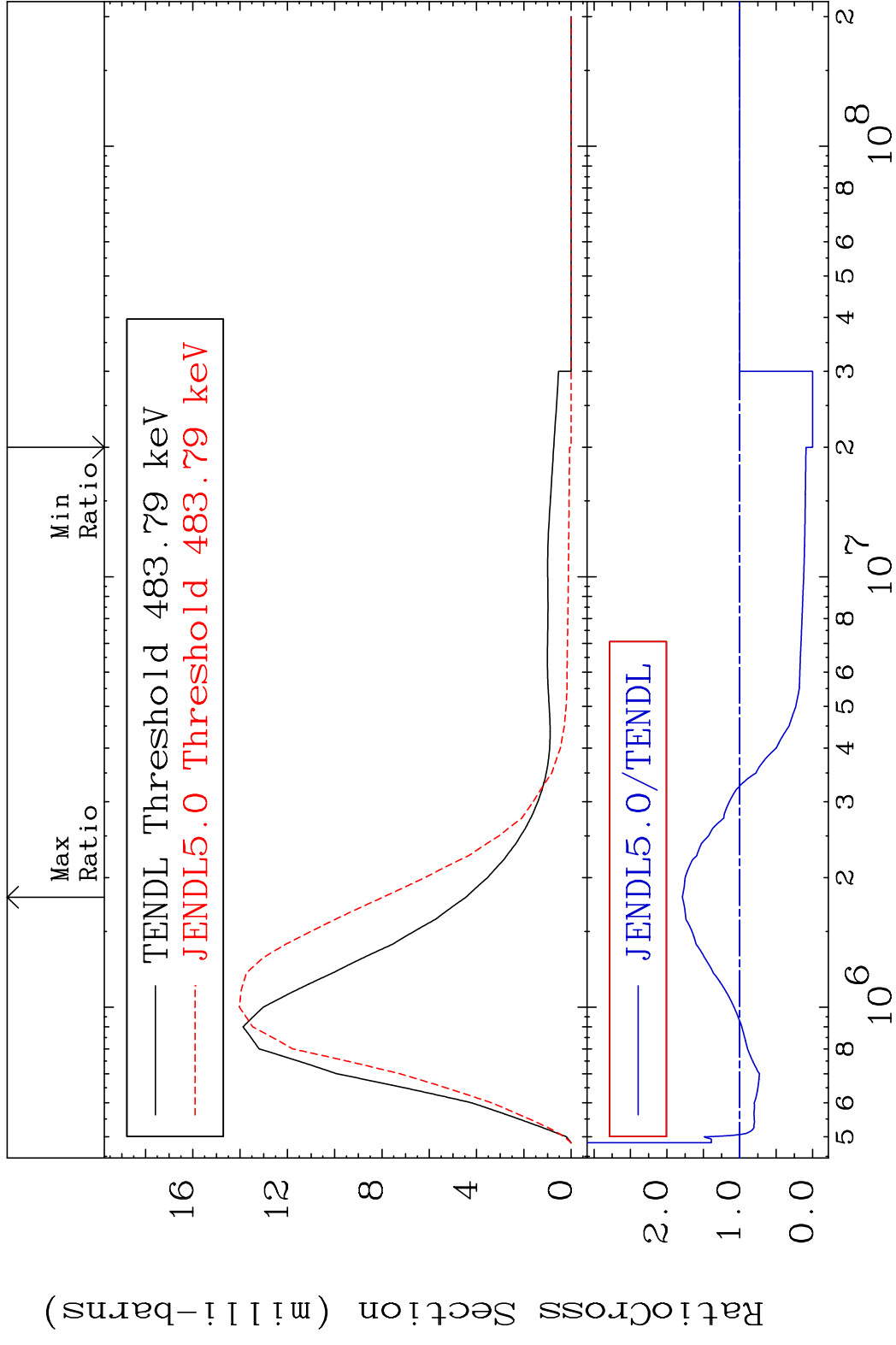
MAT 7122 MT= 71 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



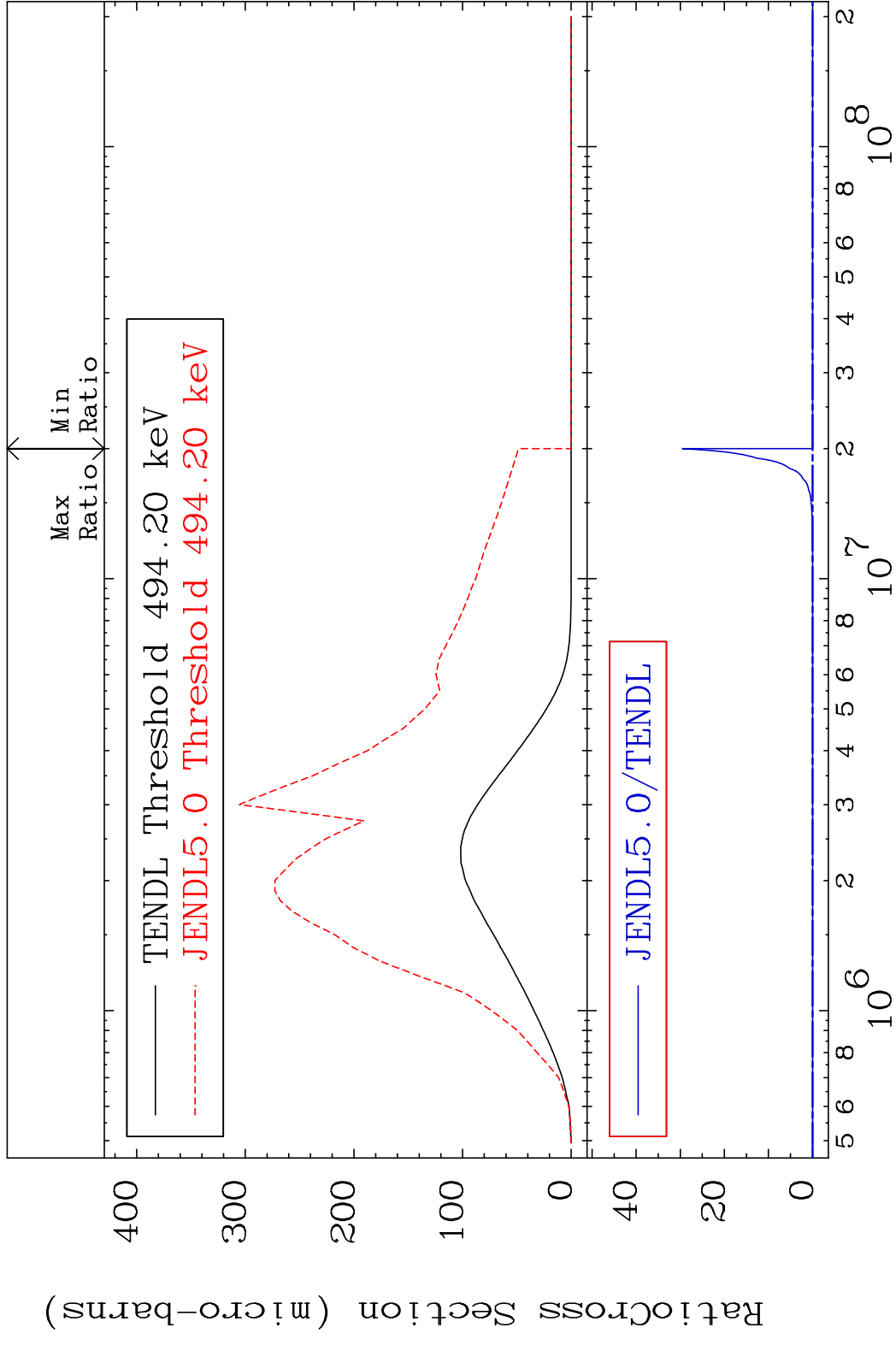
MAT 7122 MT= 72 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 80.50 %



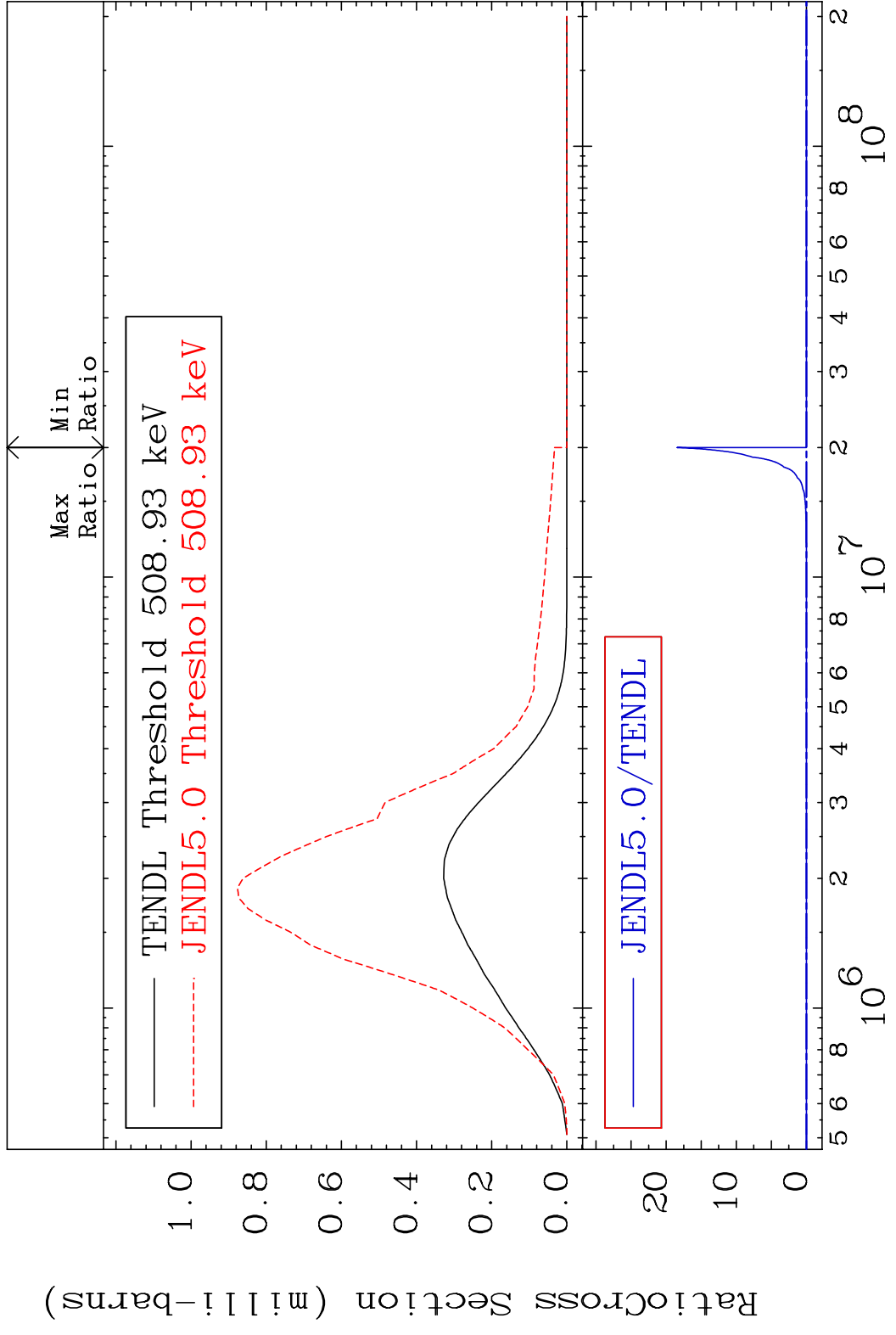
MAT 7122 MT= 73 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 78.74 %



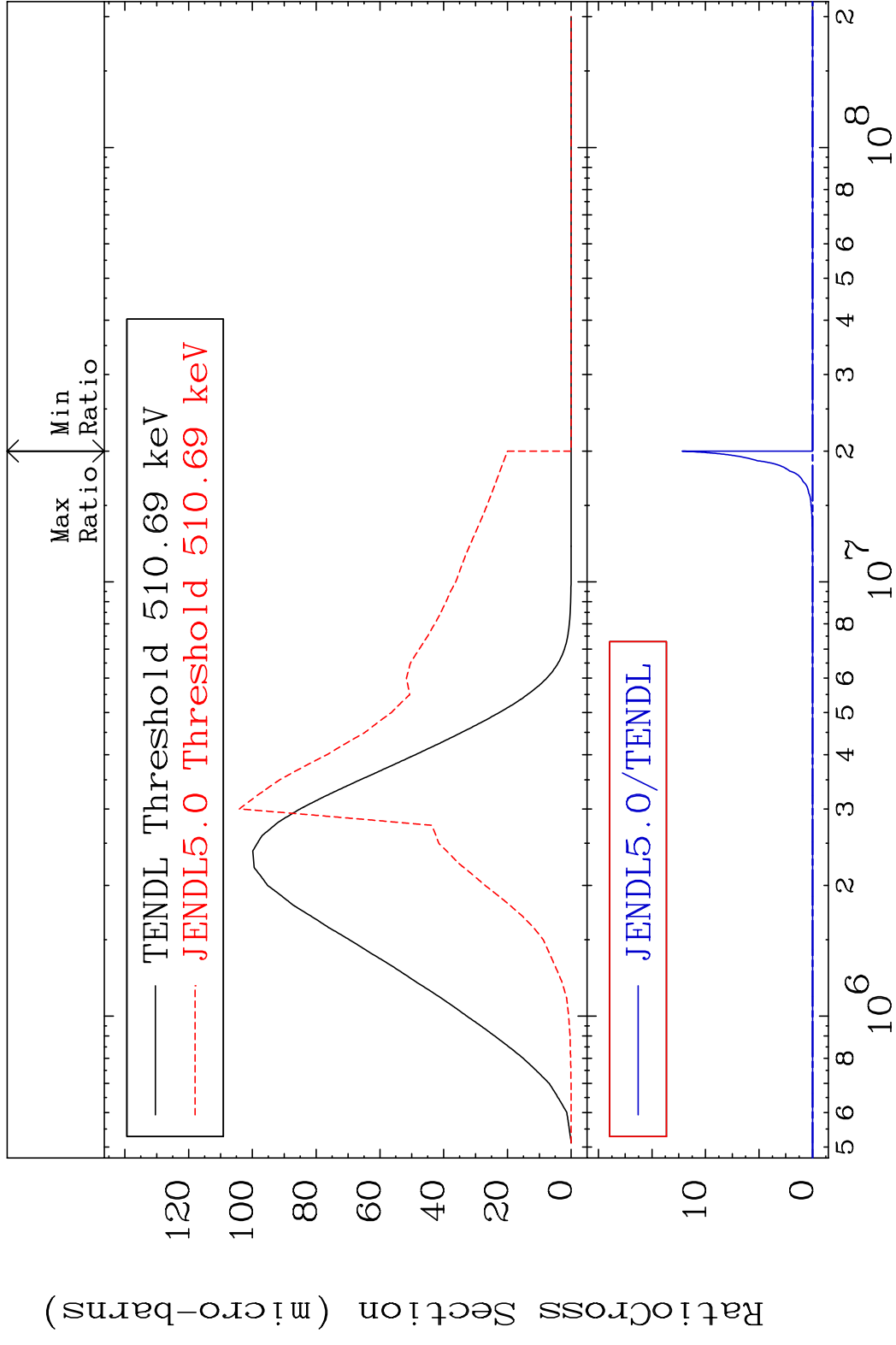
MAT 7122 MT= 74 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



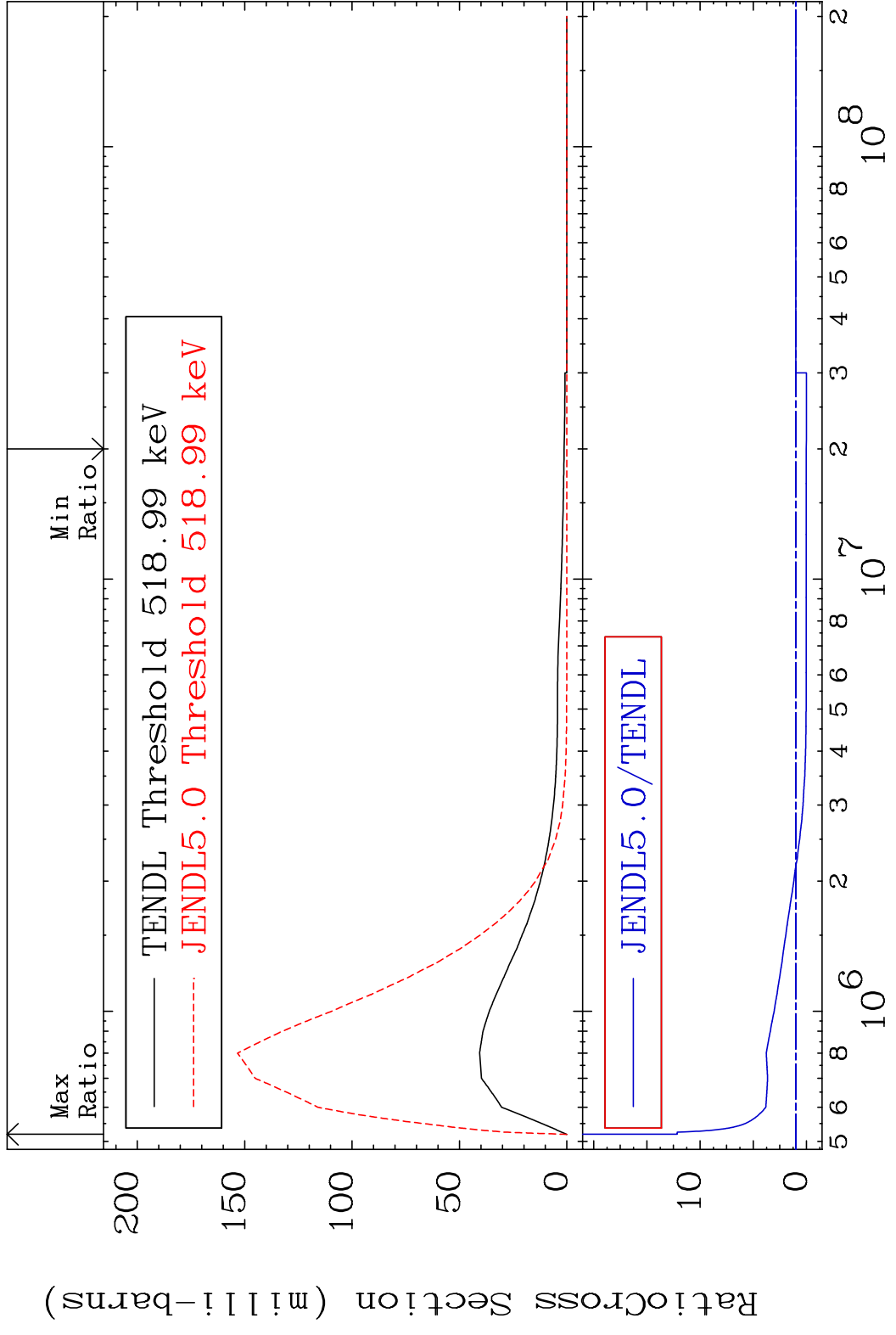
MAT 7122 MT= 75 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



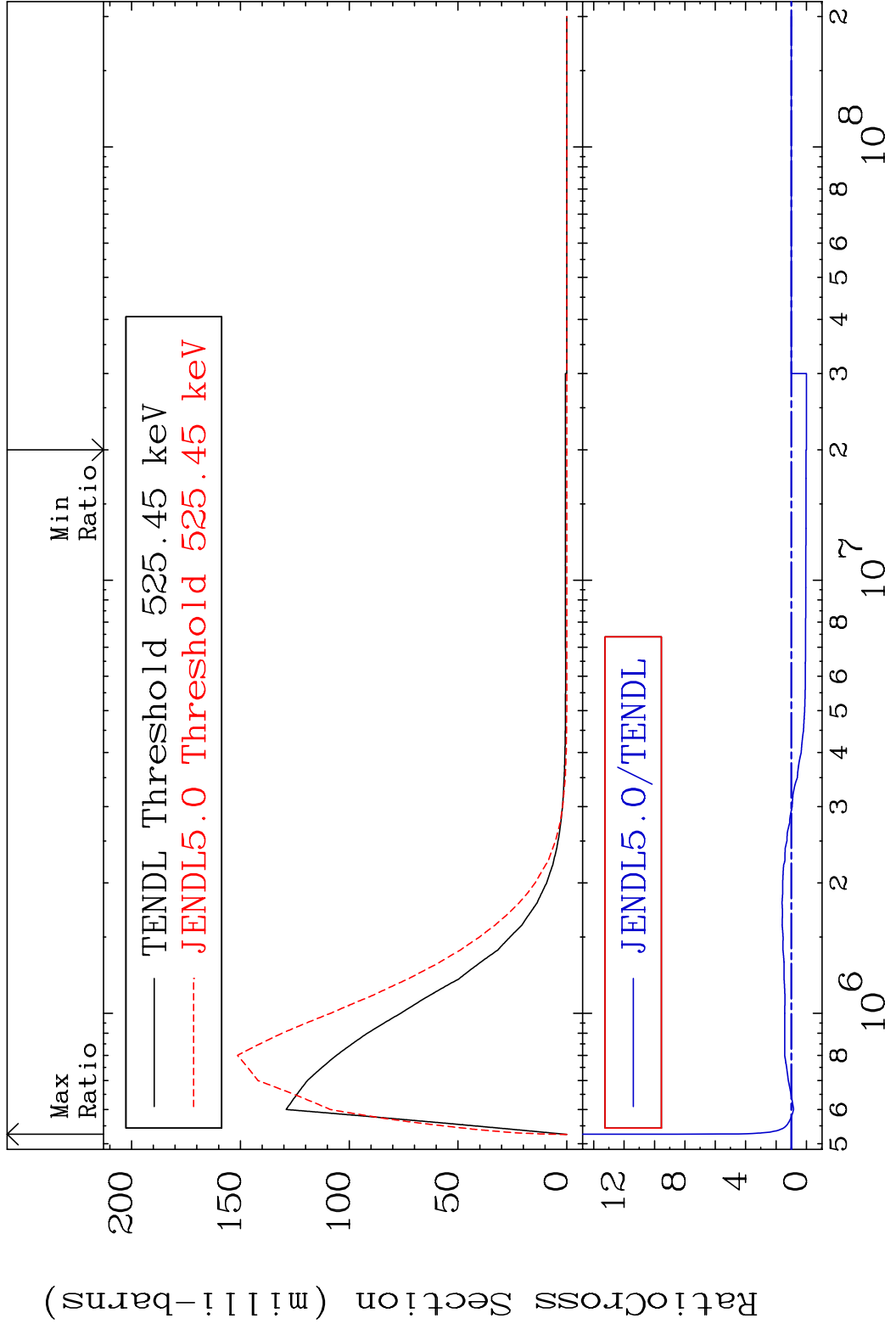
MAT 7122 MT= 76 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 9999. %



MAT 7122 MT= 77 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 1115. %

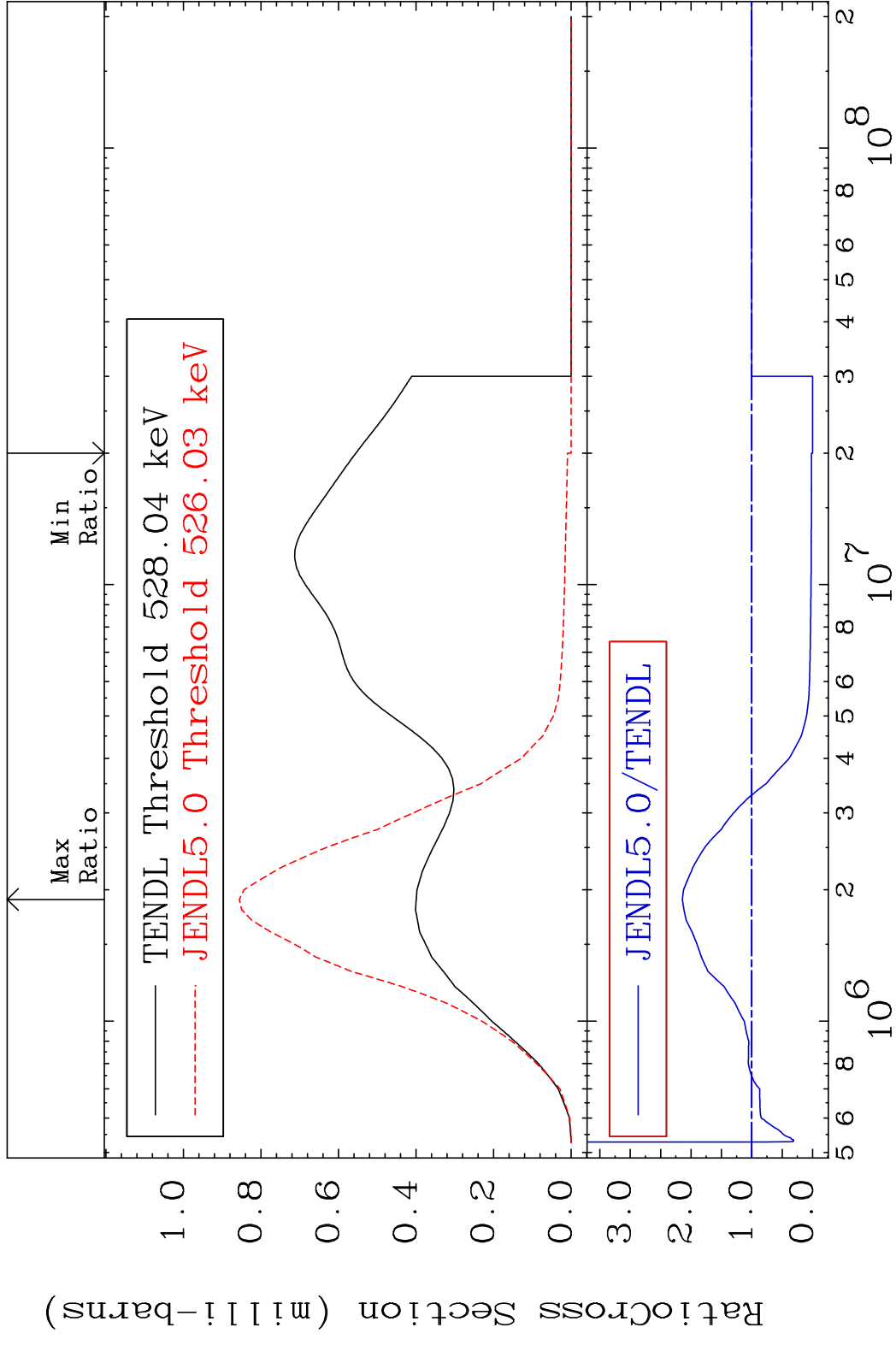


MAT 7122 MT= 78 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 750.6 %

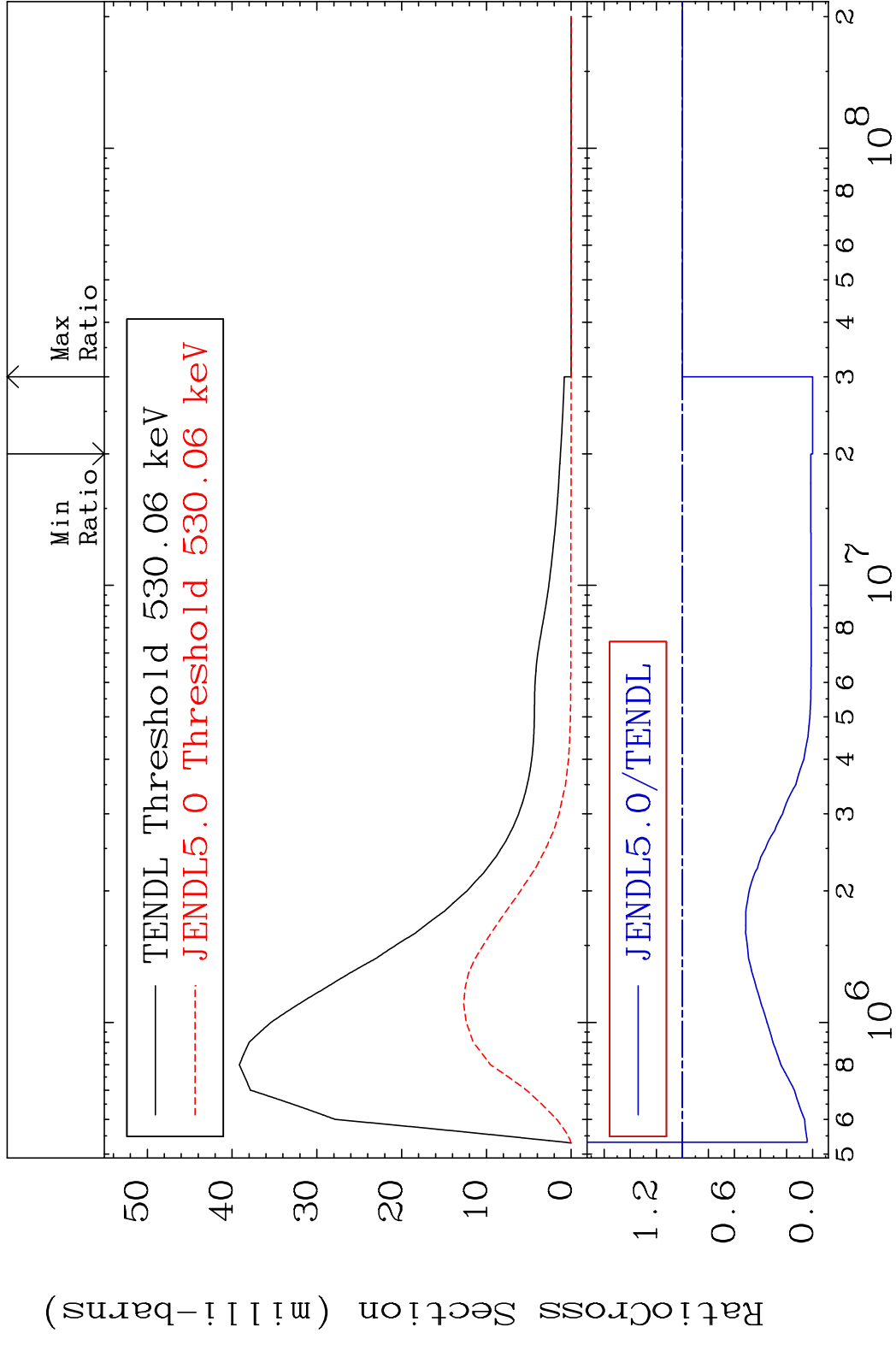


40 Incident Energy (eV) 71-Lu-174

MAT 7122 MT= 79 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 114.2 %



MAT 7122 MT= 80 (n, n') Level 71-Lu-174  
 Cross Section -100.0 To 0.000 %

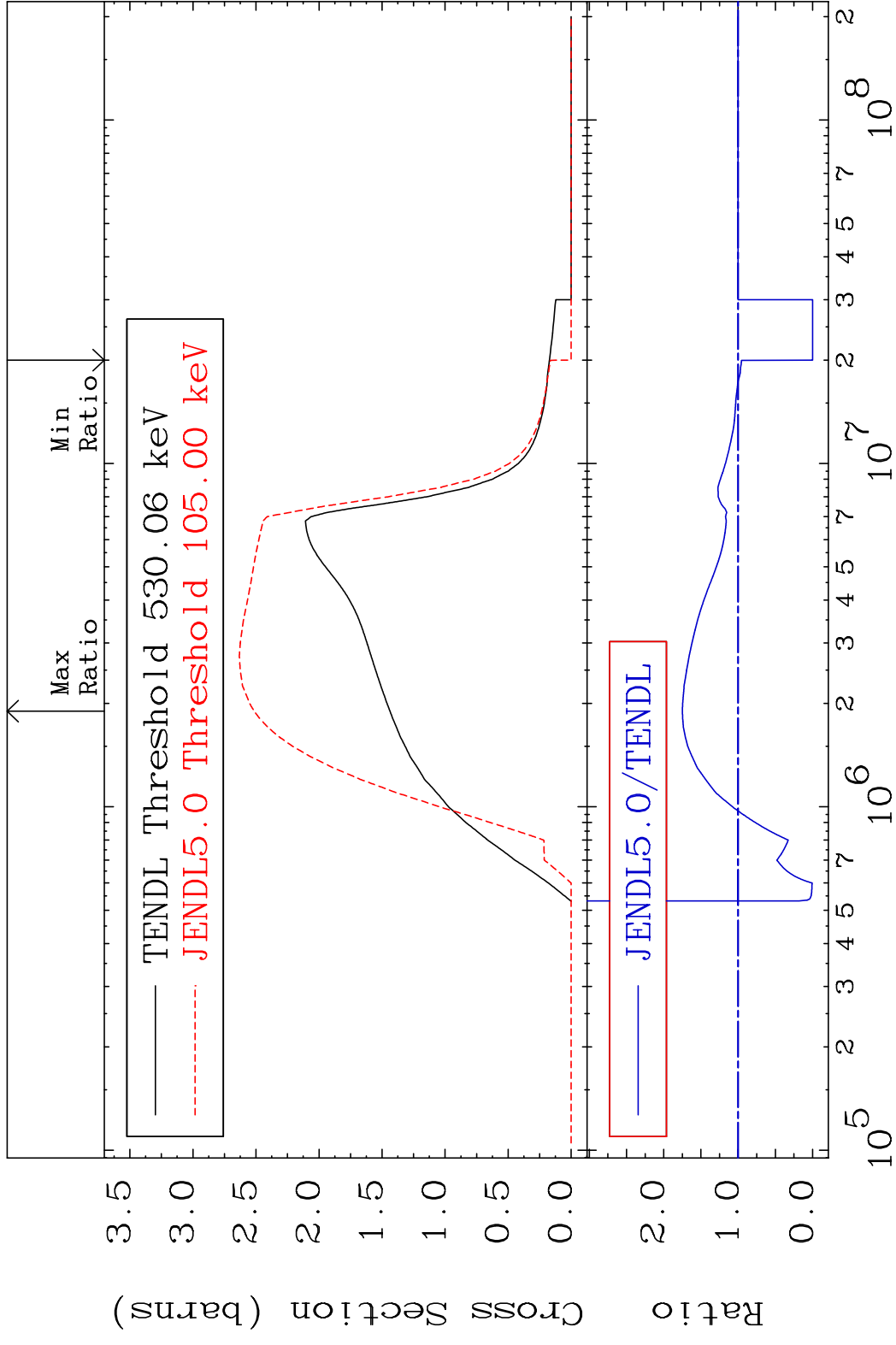


MAT 7122

(n, n') Continuum

71-Lu-174

Cross Section -100.0 To 74.97 %



43

Incident Energy (eV)

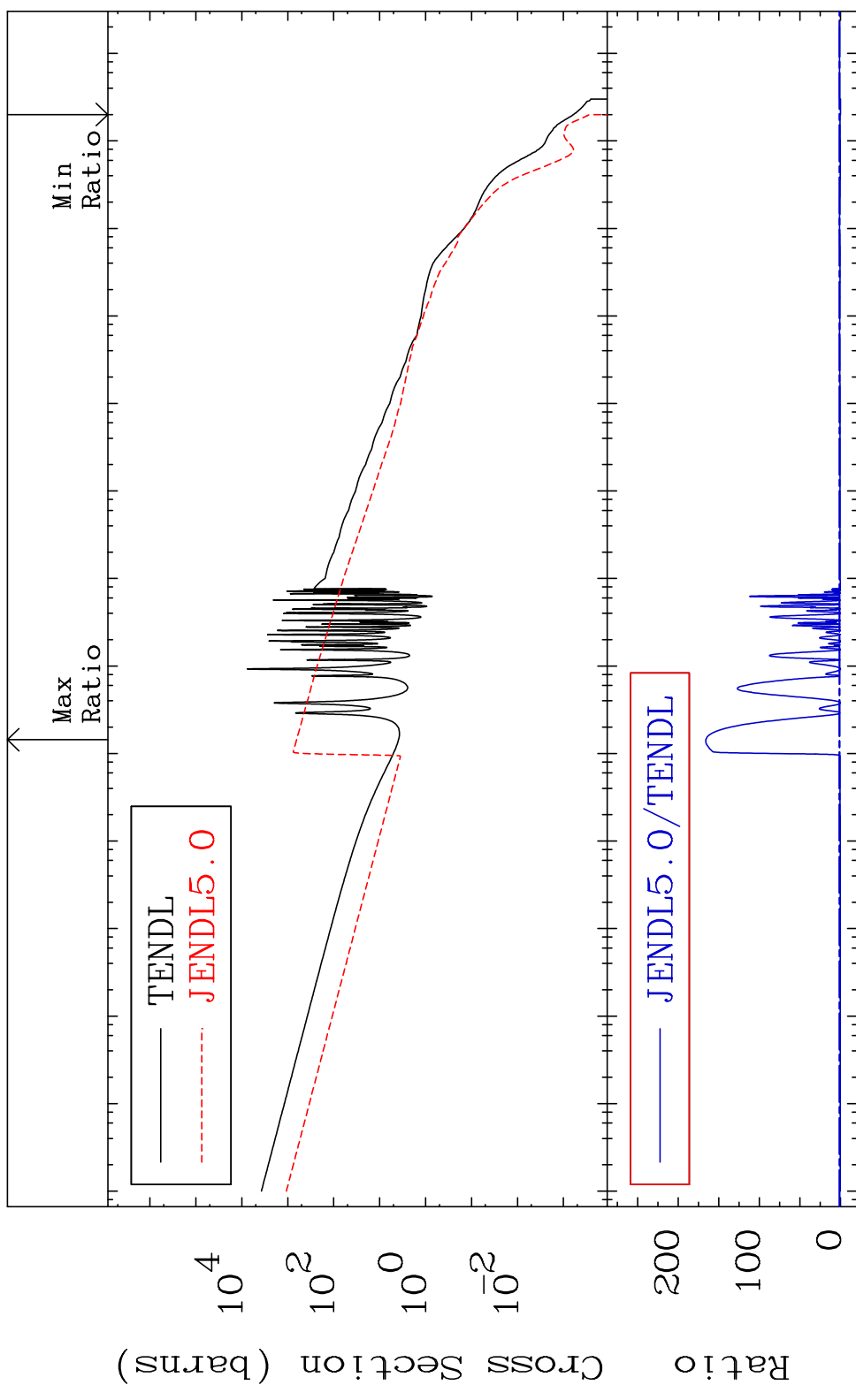
71-Lu-174

MAT 7122

(n,  $\gamma$ )

71-Lu-174

Cross Section -100.0 To 9999. %

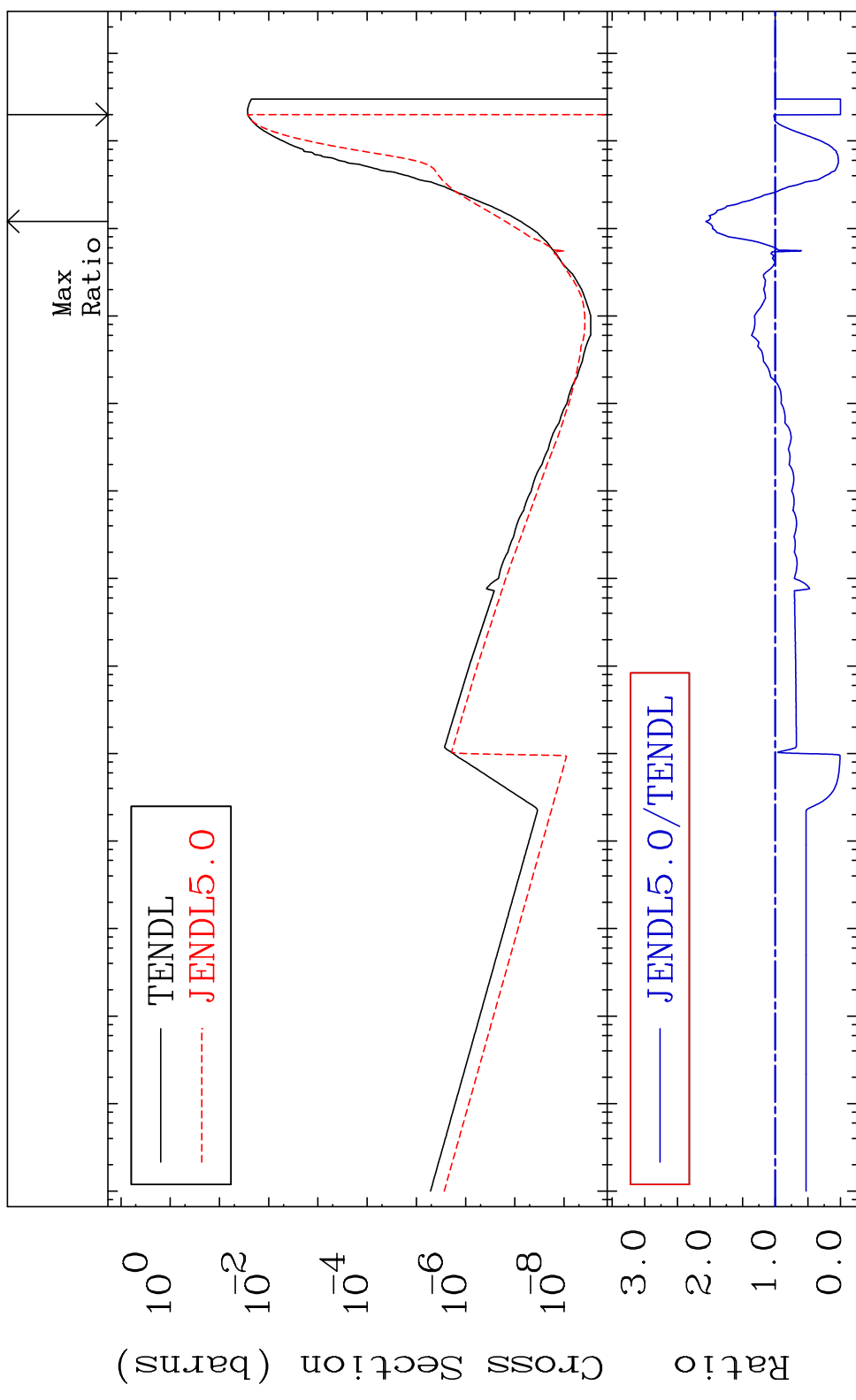


MAT 7122

(n, p)

71-Lu-174

Cross Section -100.0 To 106.5 %

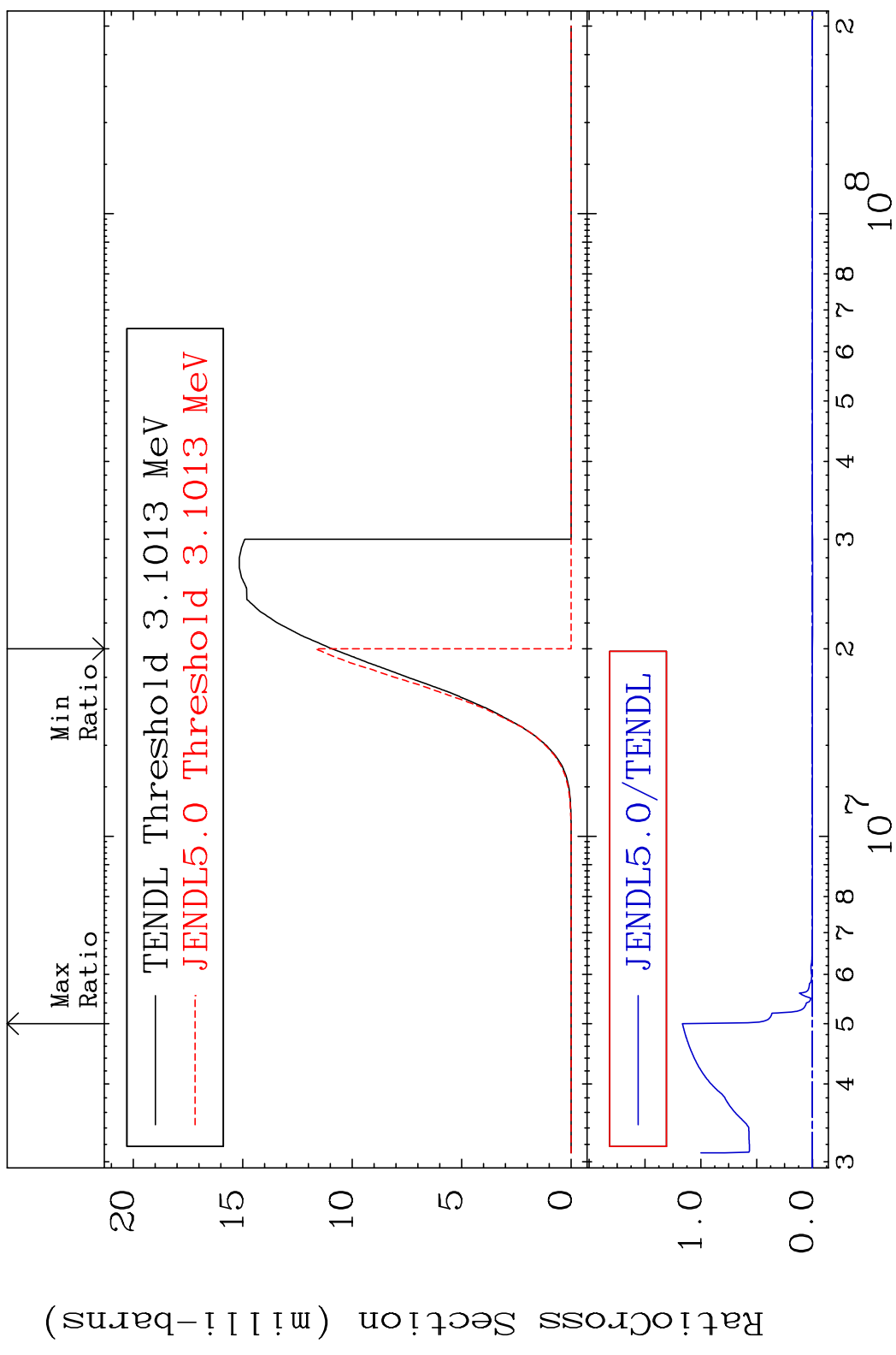


MAT 7122

(n,d)

71-Lu-174

Cross Section -100.0 To 9999. %

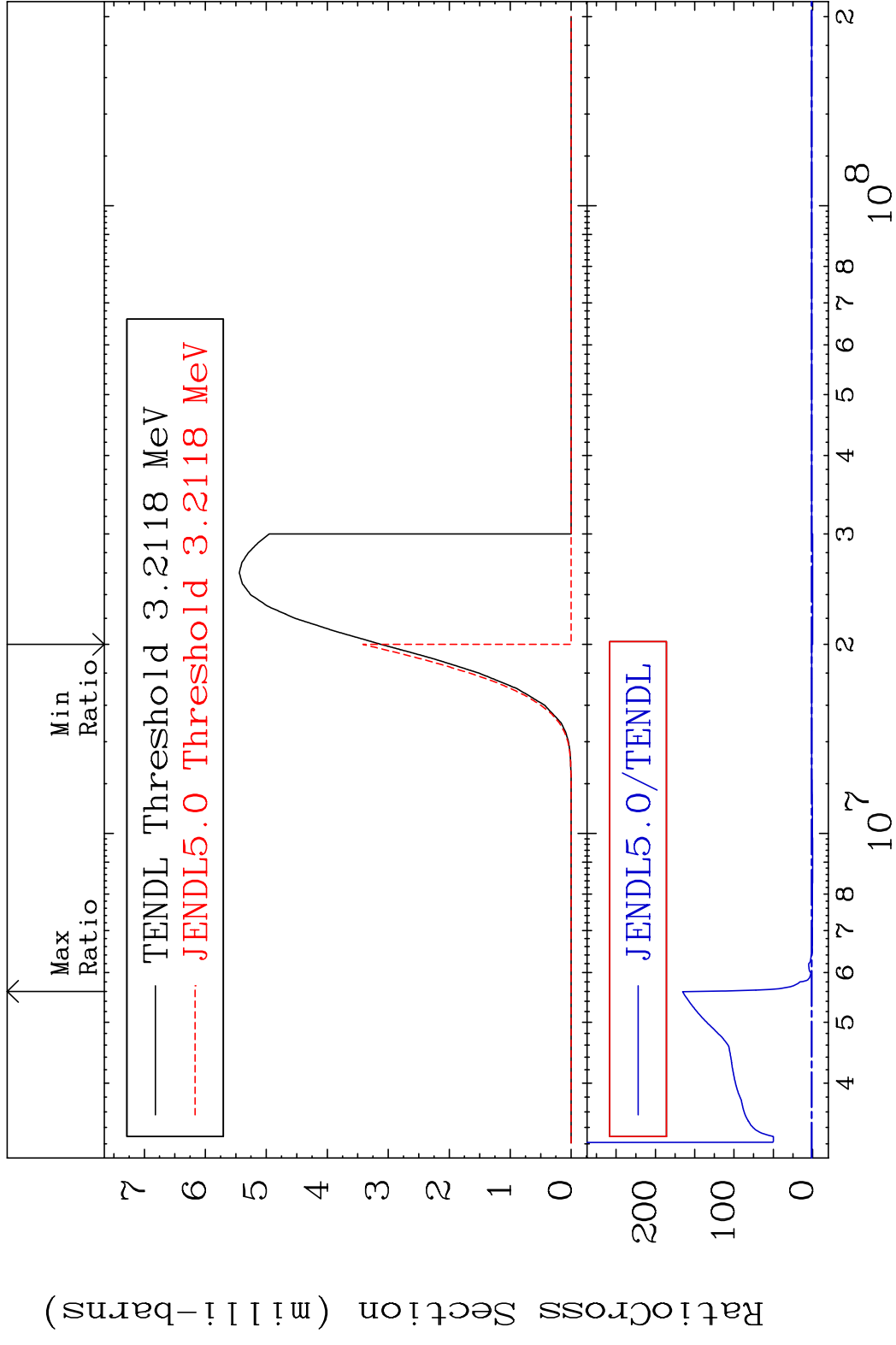


MAT 7122

(n, t)

71-Lu-174

Cross Section -100.0 To 9999. %

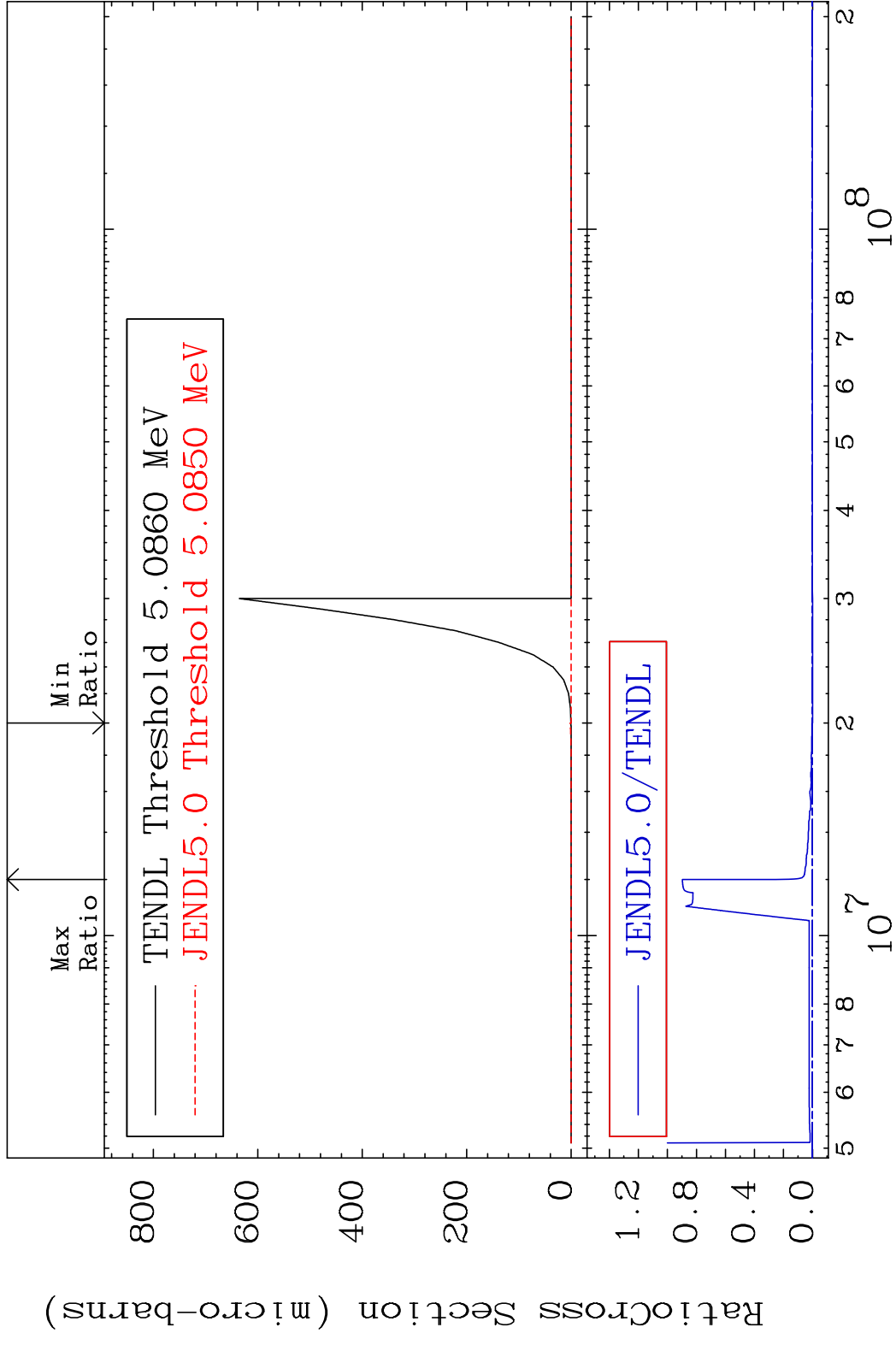


MAT 7122

(n, He-3)

71-Lu-174

Cross Section -100.0 To 9999. %

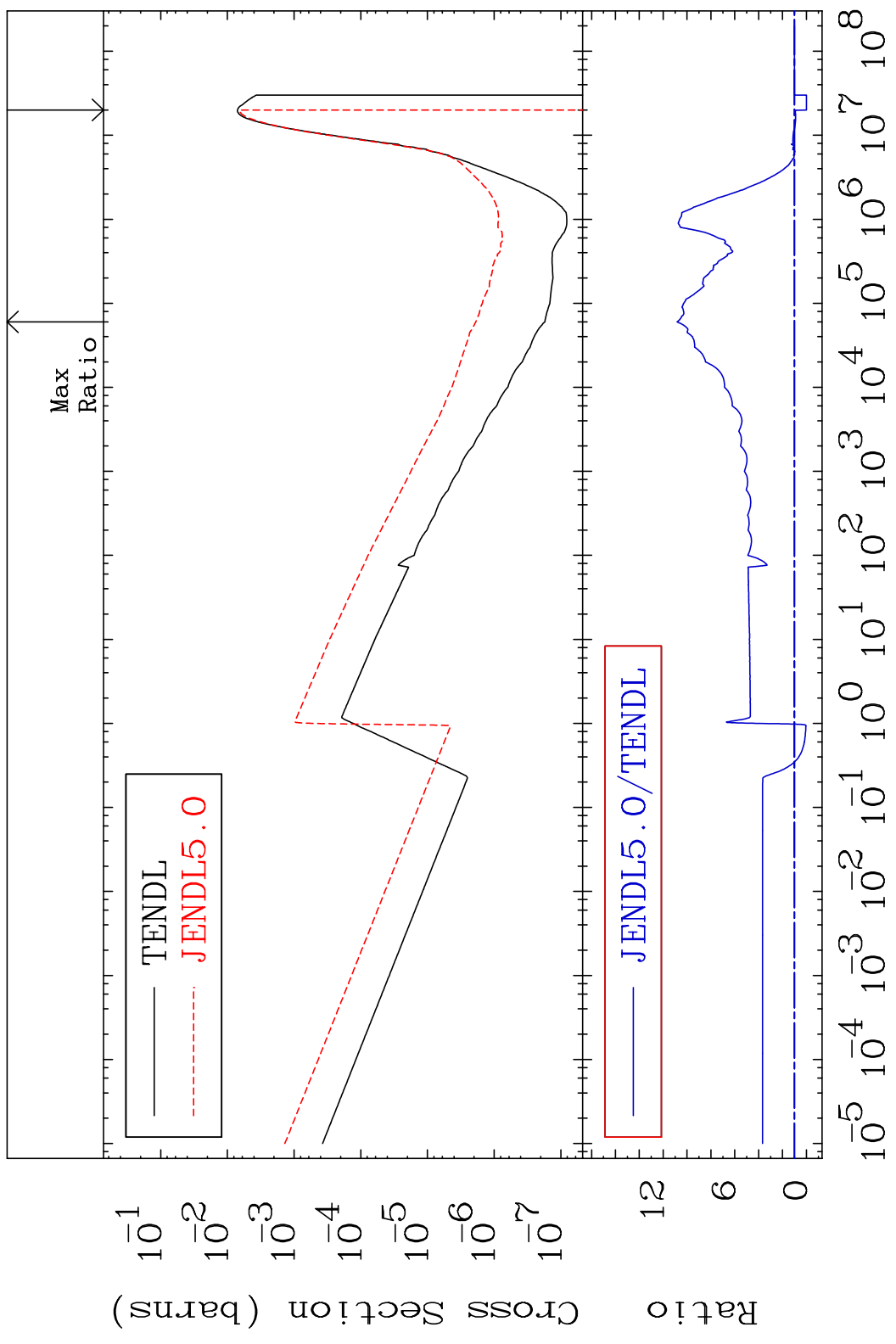


MAT 7122

(n,  $\alpha$ )

71-Lu-174

Cross Section -100.0 To 982.6 %



49

Incident Energy (eV)

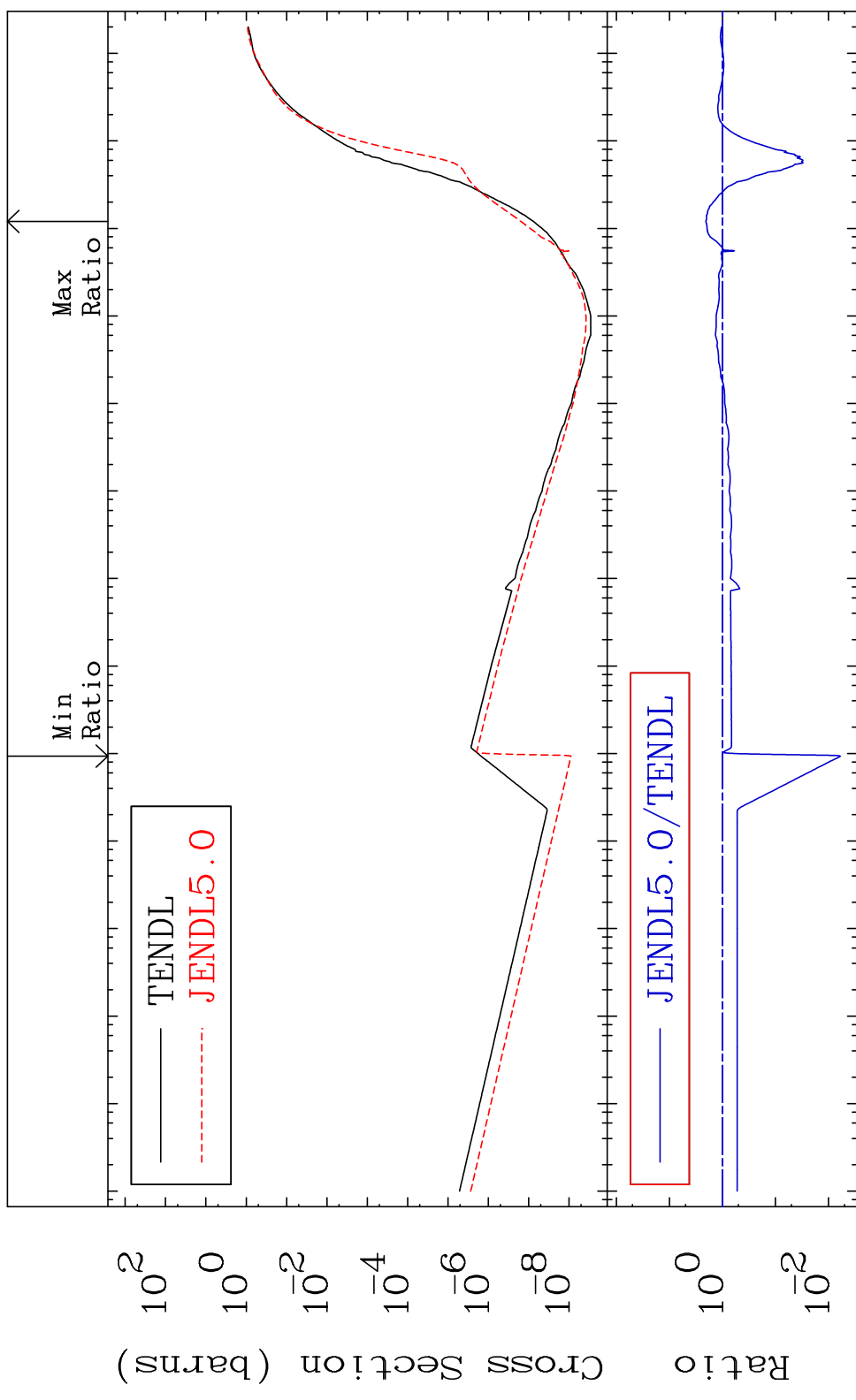
71-Lu-174

MAT 7122

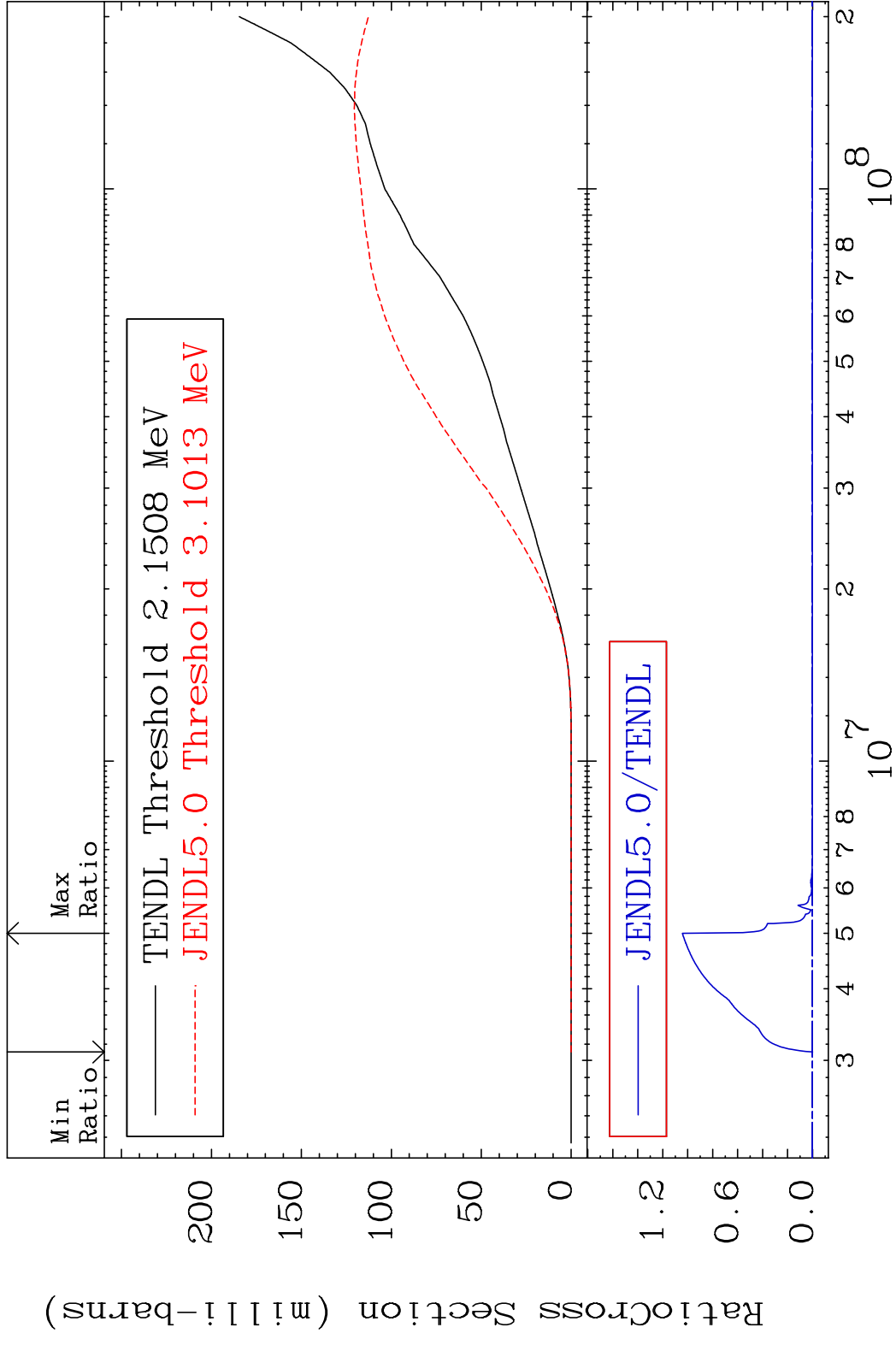
Hydrogen Production

71-Lu-174

Cross Section -99.40 To 106.5 %

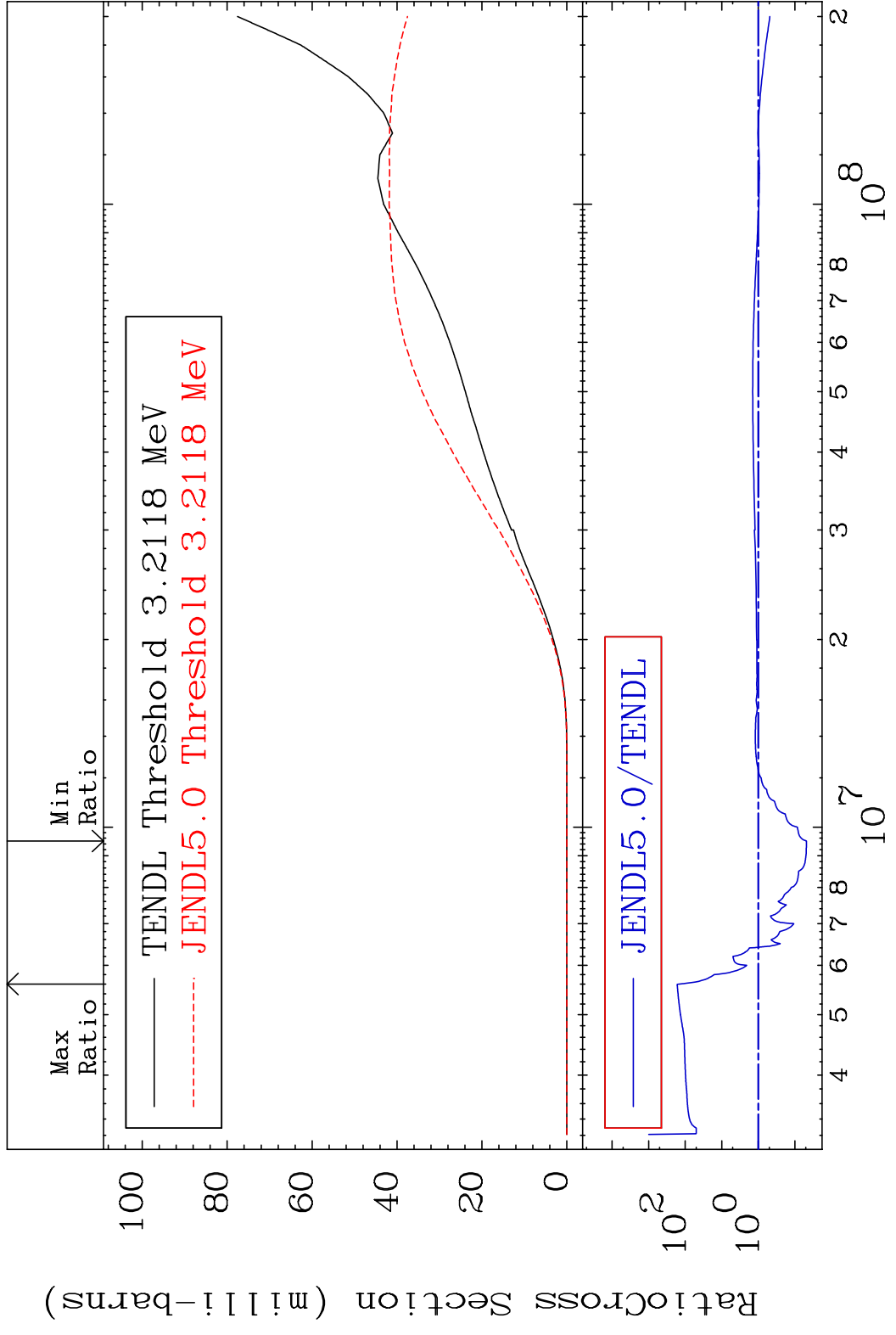


Cross Section -100.0 To 9999. %

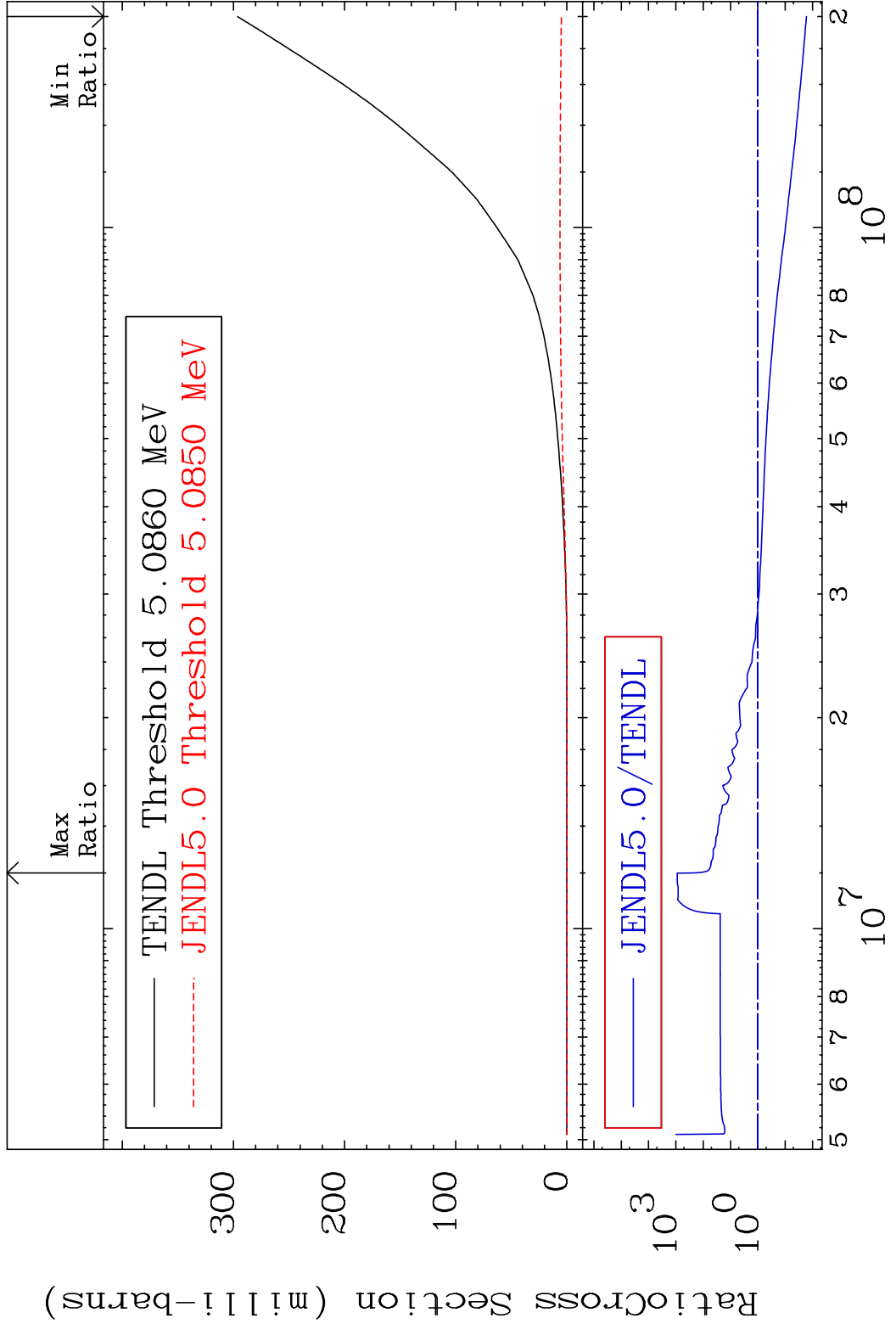


MAT 7122

Tritium Production 71-Lu-174  
Cross Section -95.16 To 9999. %



MAT 7122 He-3 Production 71-Lu-174  
 Cross Section -98.33 To 9999. %

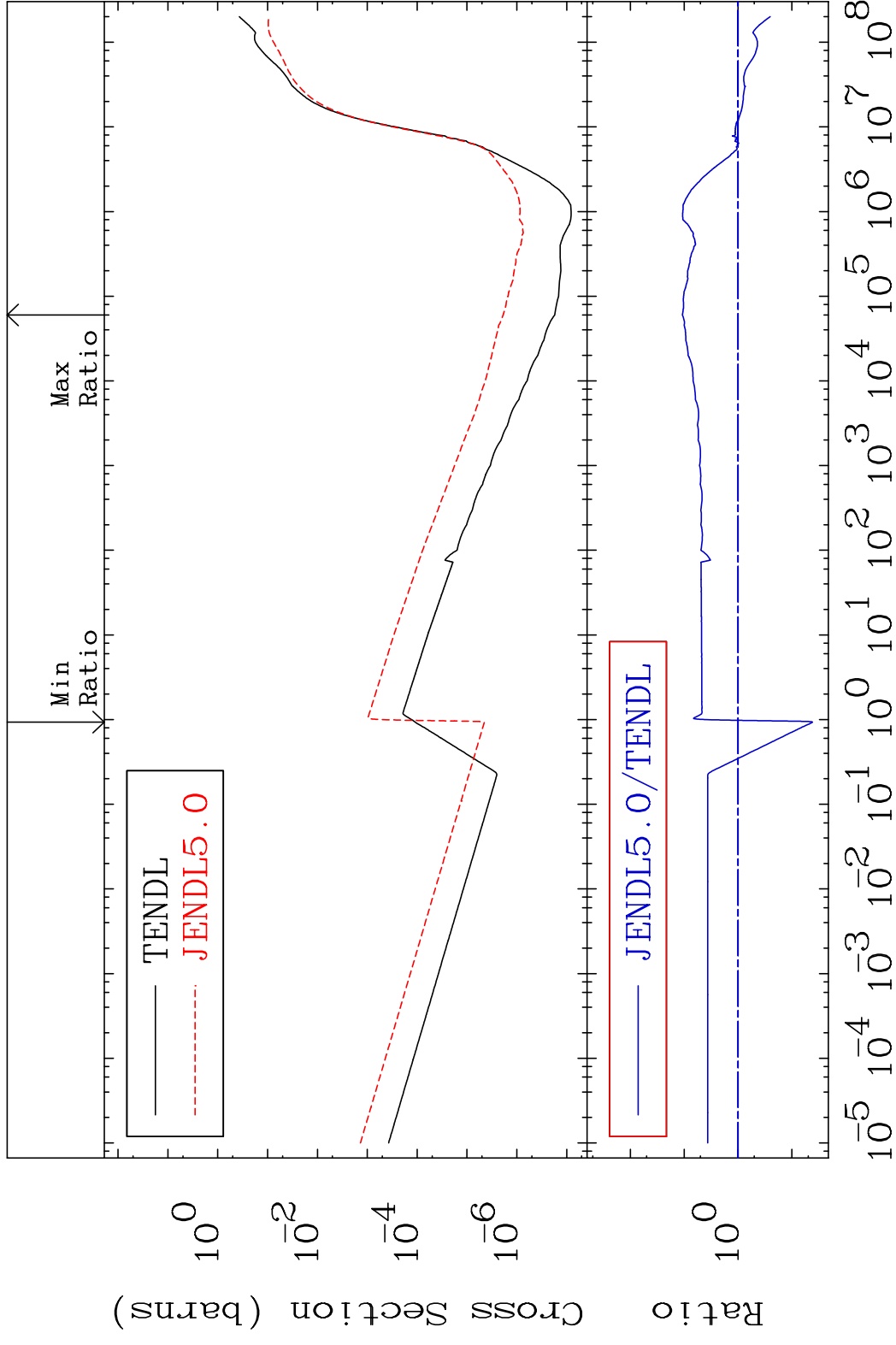


MAT 7122

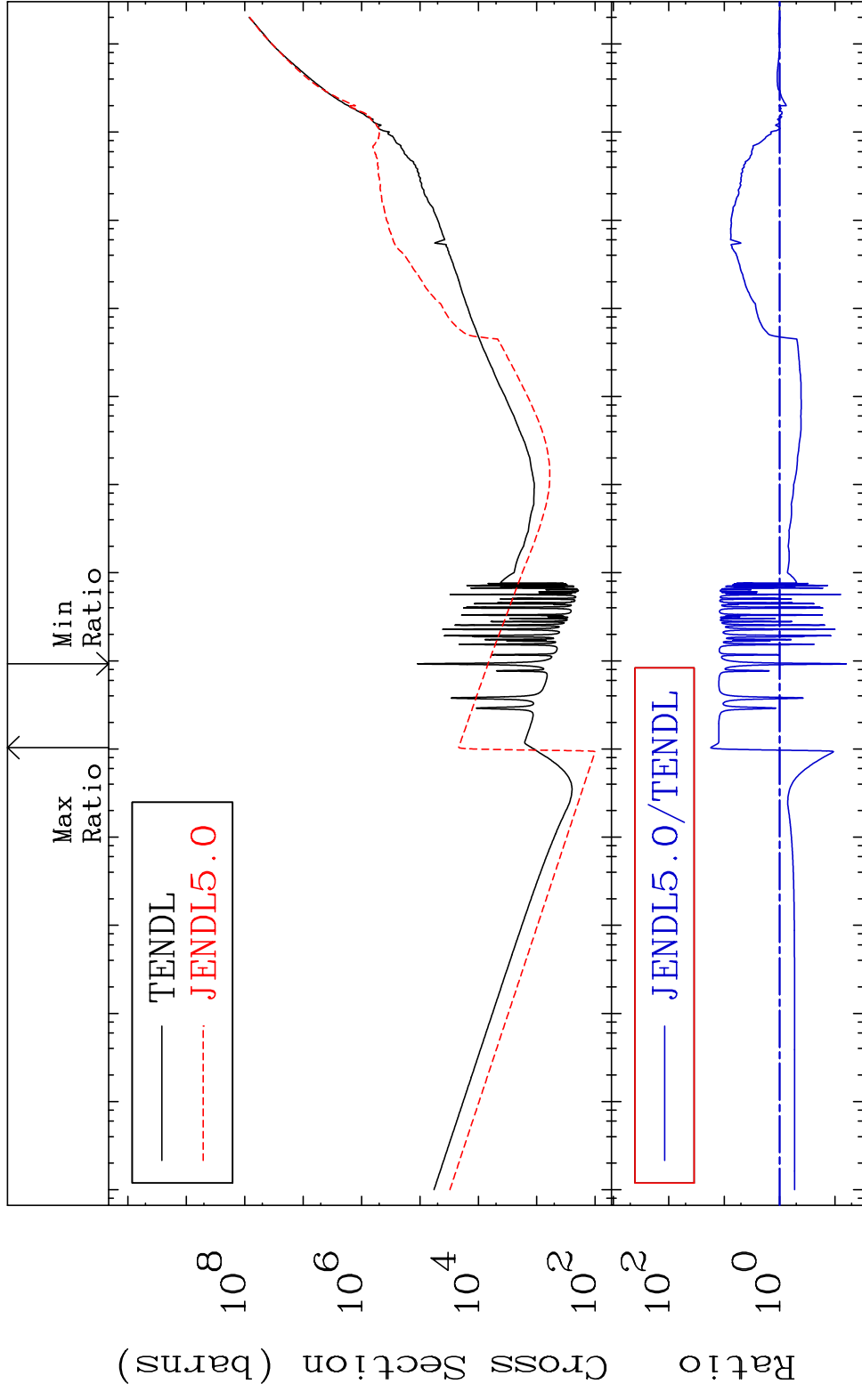
He-4 Production

71-Lu-174

Cross Section -95.86 To 982.6 %



MAT 7122 Kerma total (eV-barns) 71-Lu-174  
 Cross Section -93.78 To 1651. %

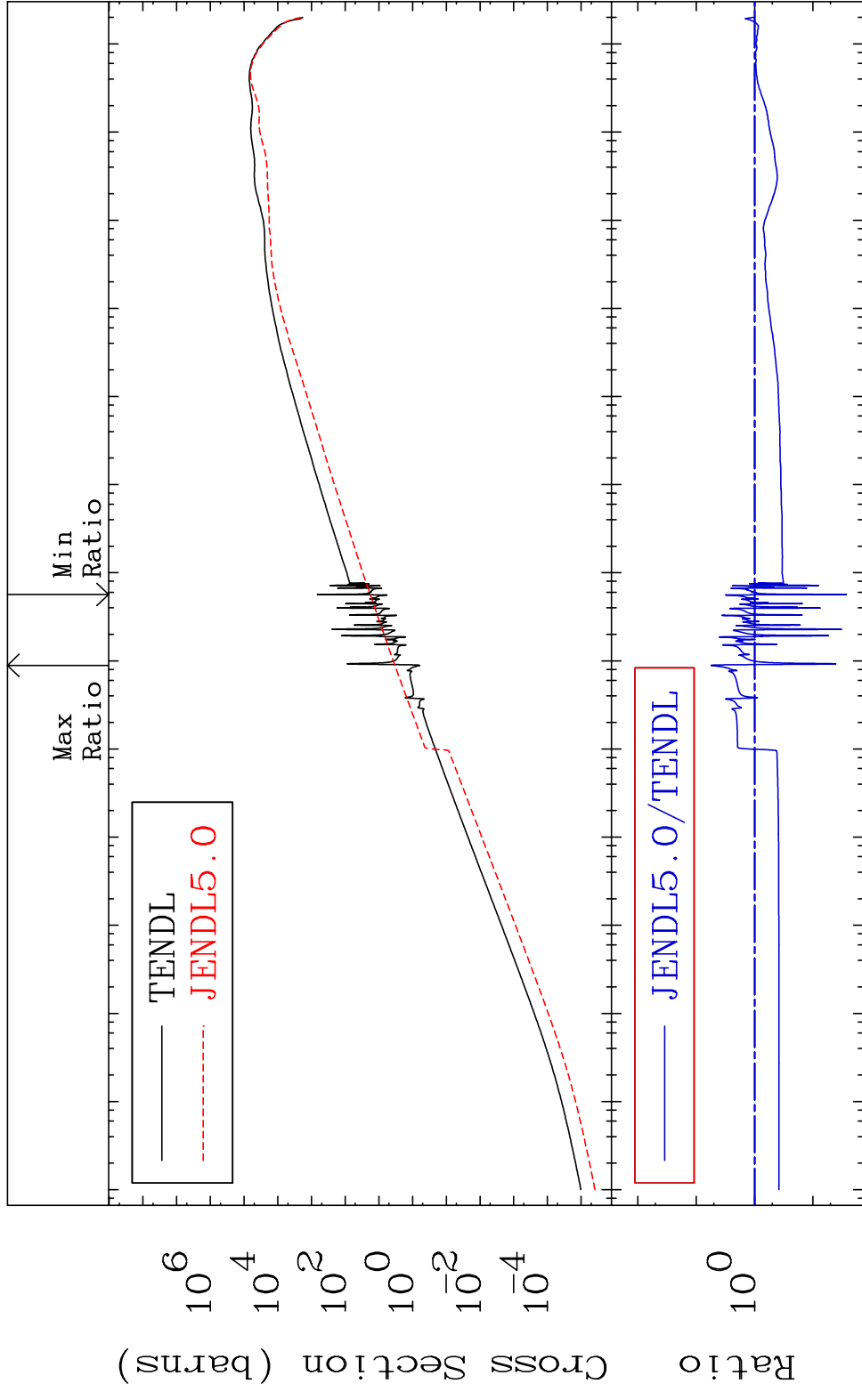


Ratio  
 Cross Section (barns)  
 Incident Energy (eV)

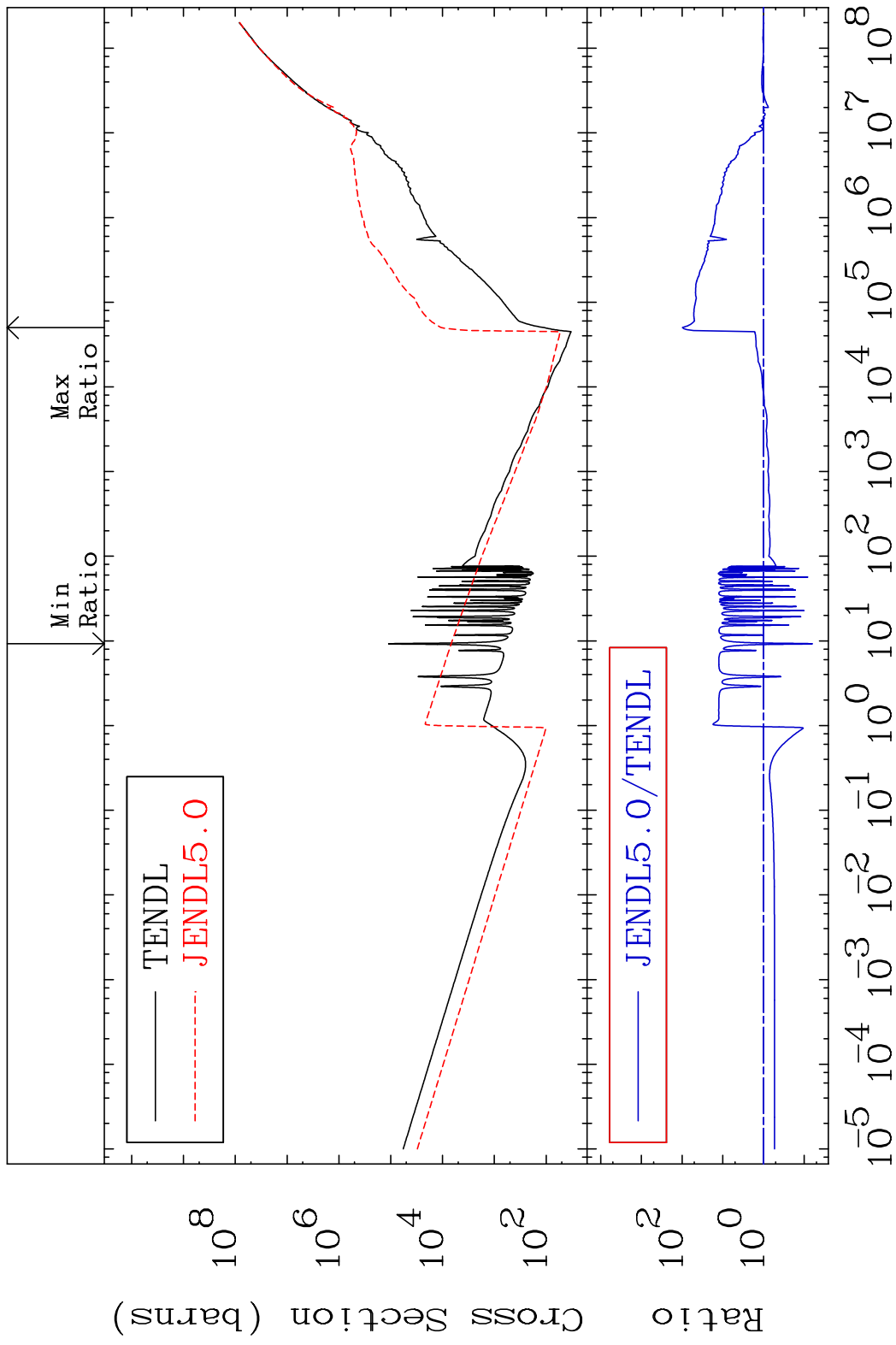
MAT 7122

Kerma elastic Cross Section -97.32 To 465.5 %

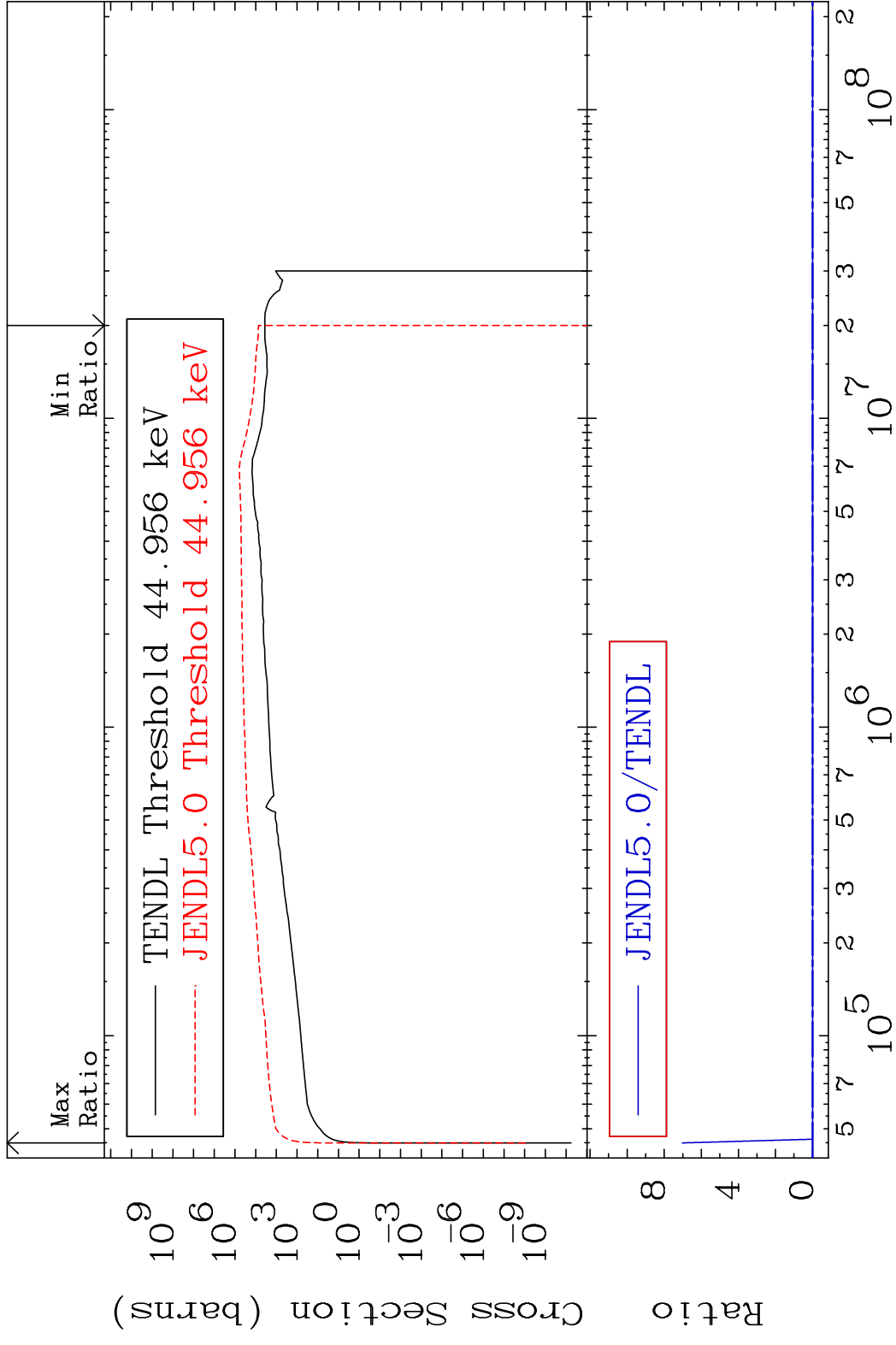
71-Lu-174



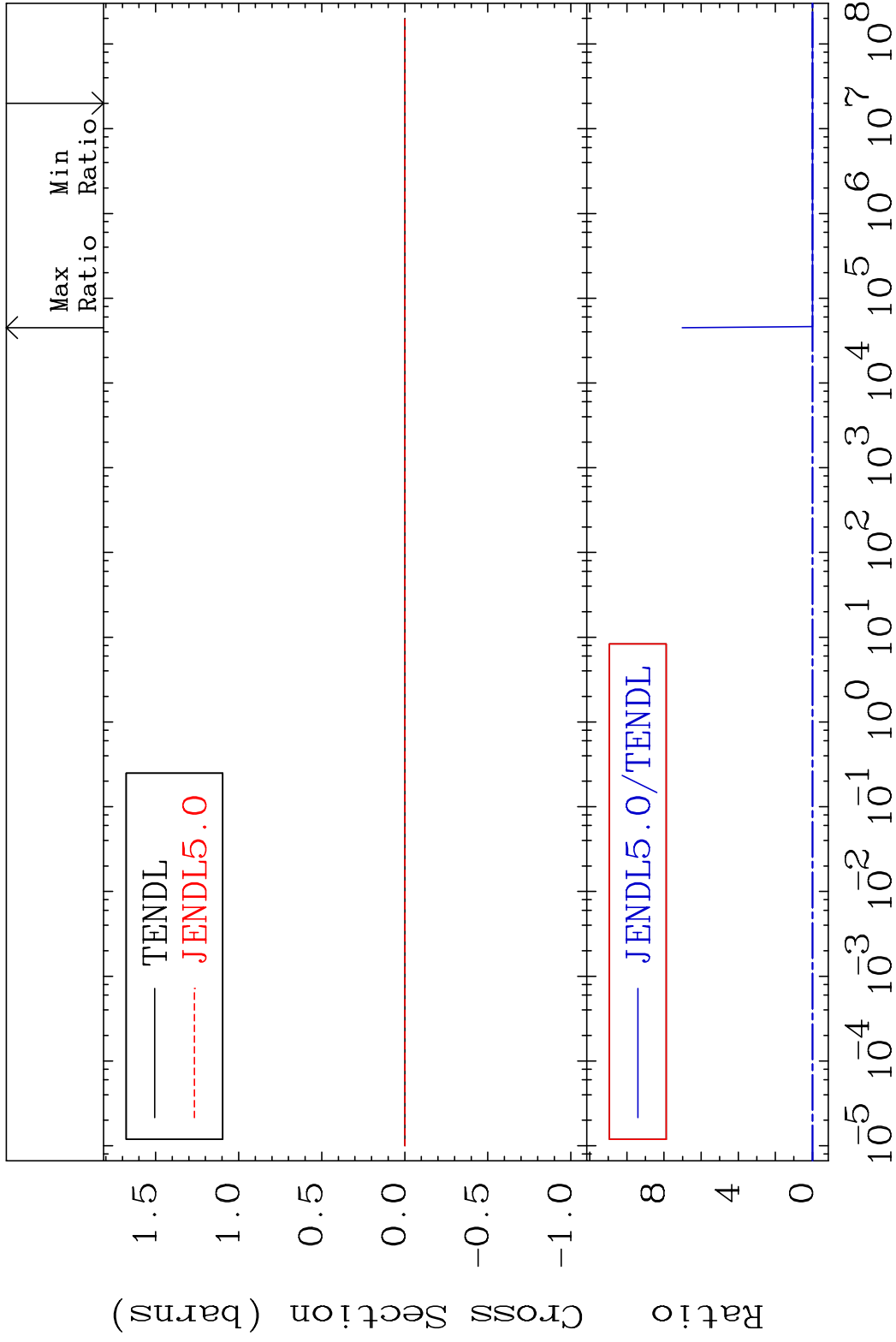
MAT 7122 Kerma non-elastic (all but mt2) 71-Lu-174  
 Cross Section -93.78 To 9739. %



MAT 7122 Kerma inelastic (mt51-91) 71-Lu-174  
 Cross Section -100.0 To 9999. %



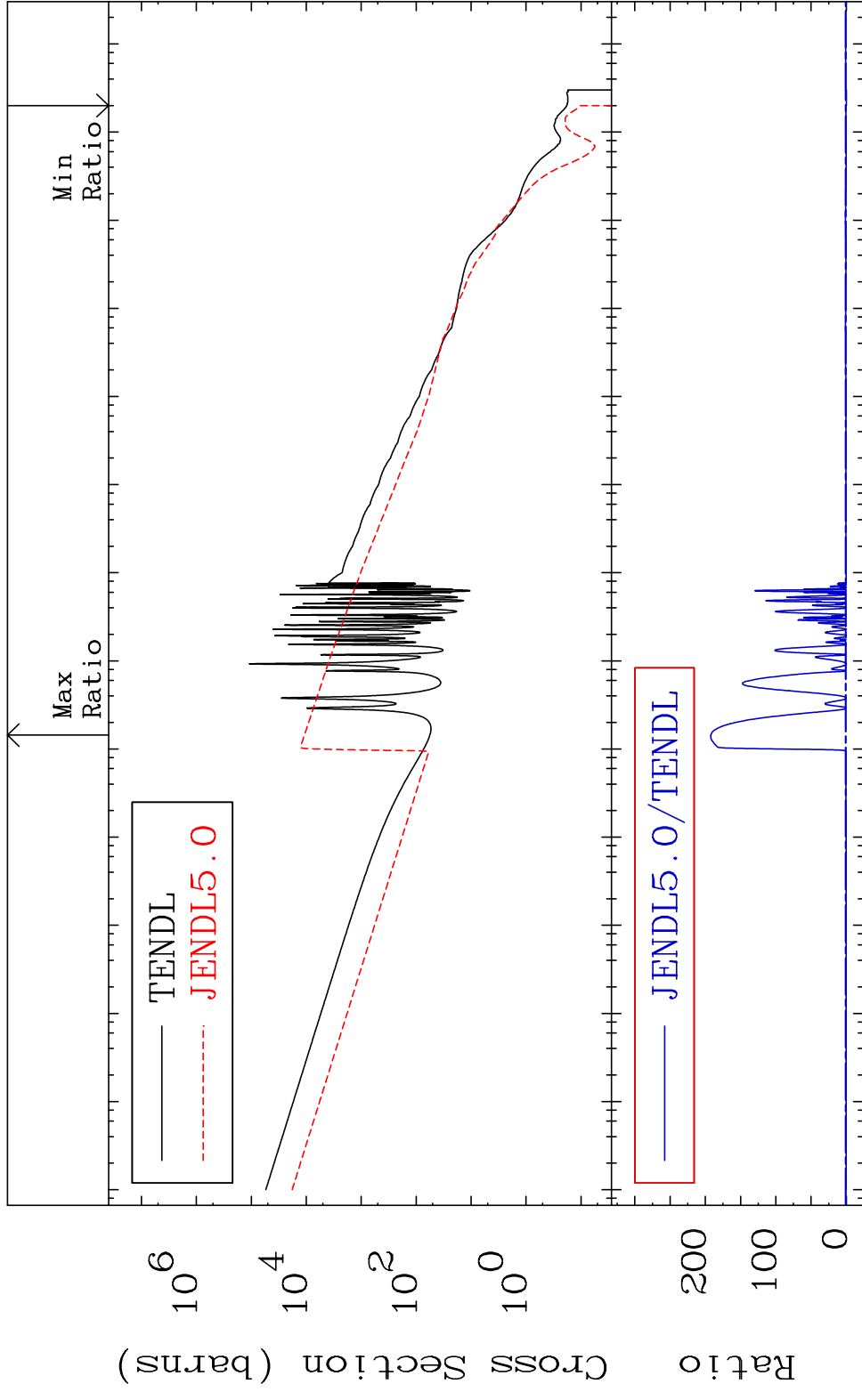
MAT 7122 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-174  
 Cross Section -100.0 To 9999. %



MAT 7122

Kerma capture (mt102) 71-Lu-174

Cross Section -100.0 To 9999. %



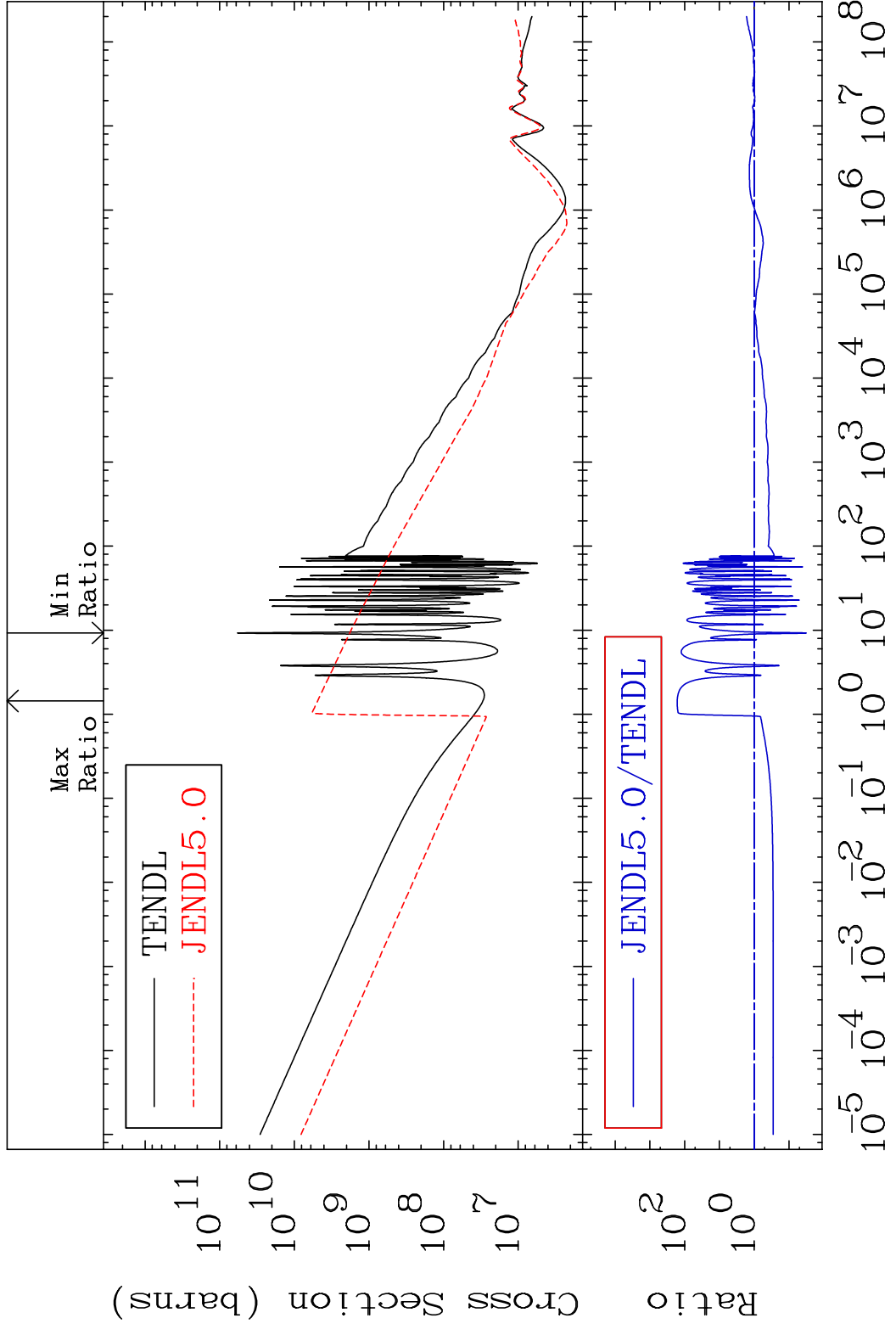
60

Incident Energy (eV)

71-Lu-174

MAT 7122

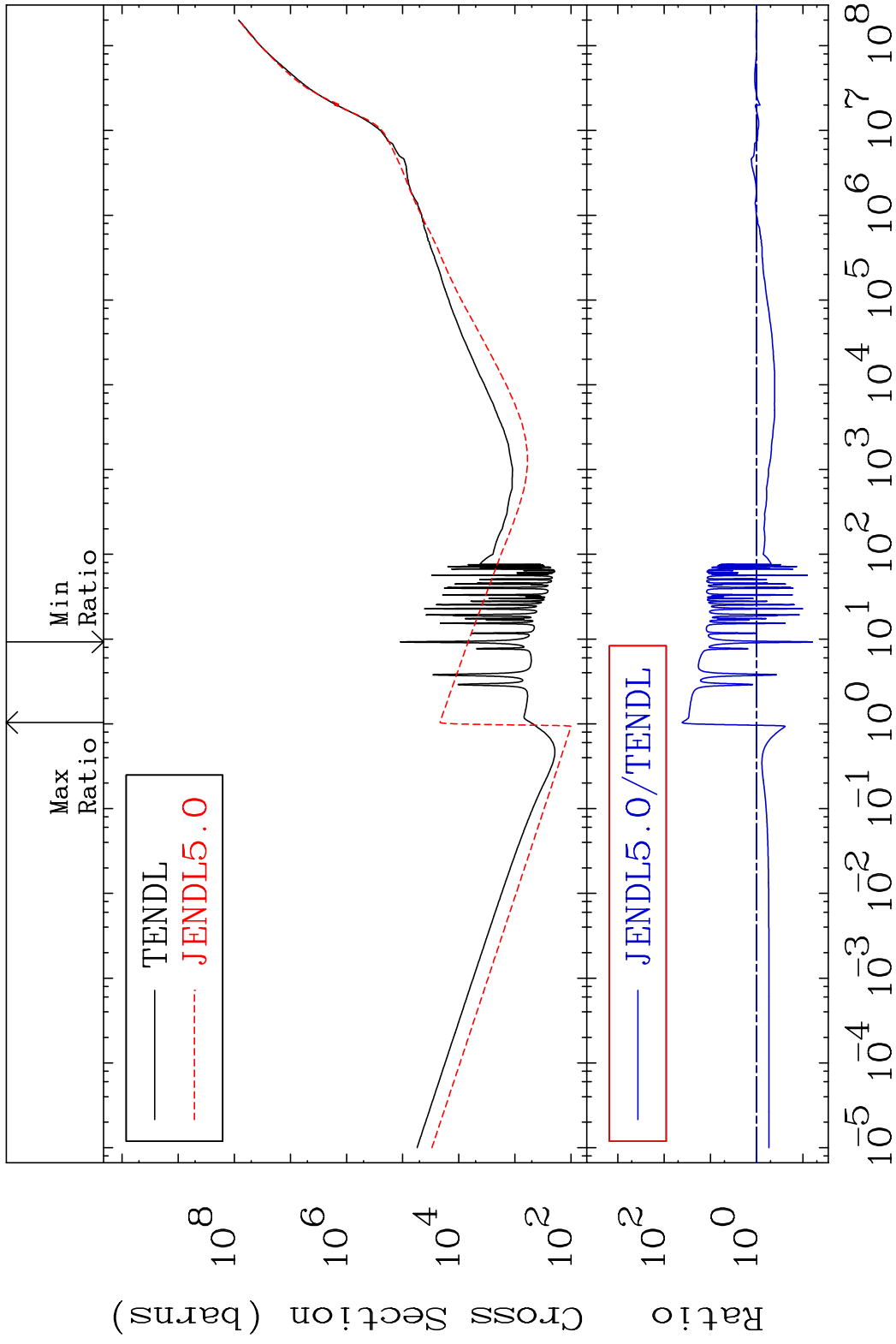
Total photon (eV-barns) 71-Lu-174  
Cross Section -96.86 To 9999. %



61

Incident Energy (eV) 71-Lu-174

MAT 7122 Total kinematic kerma (high limit) 71-Lu-174  
 Cross Section -93.78 To 3984. %

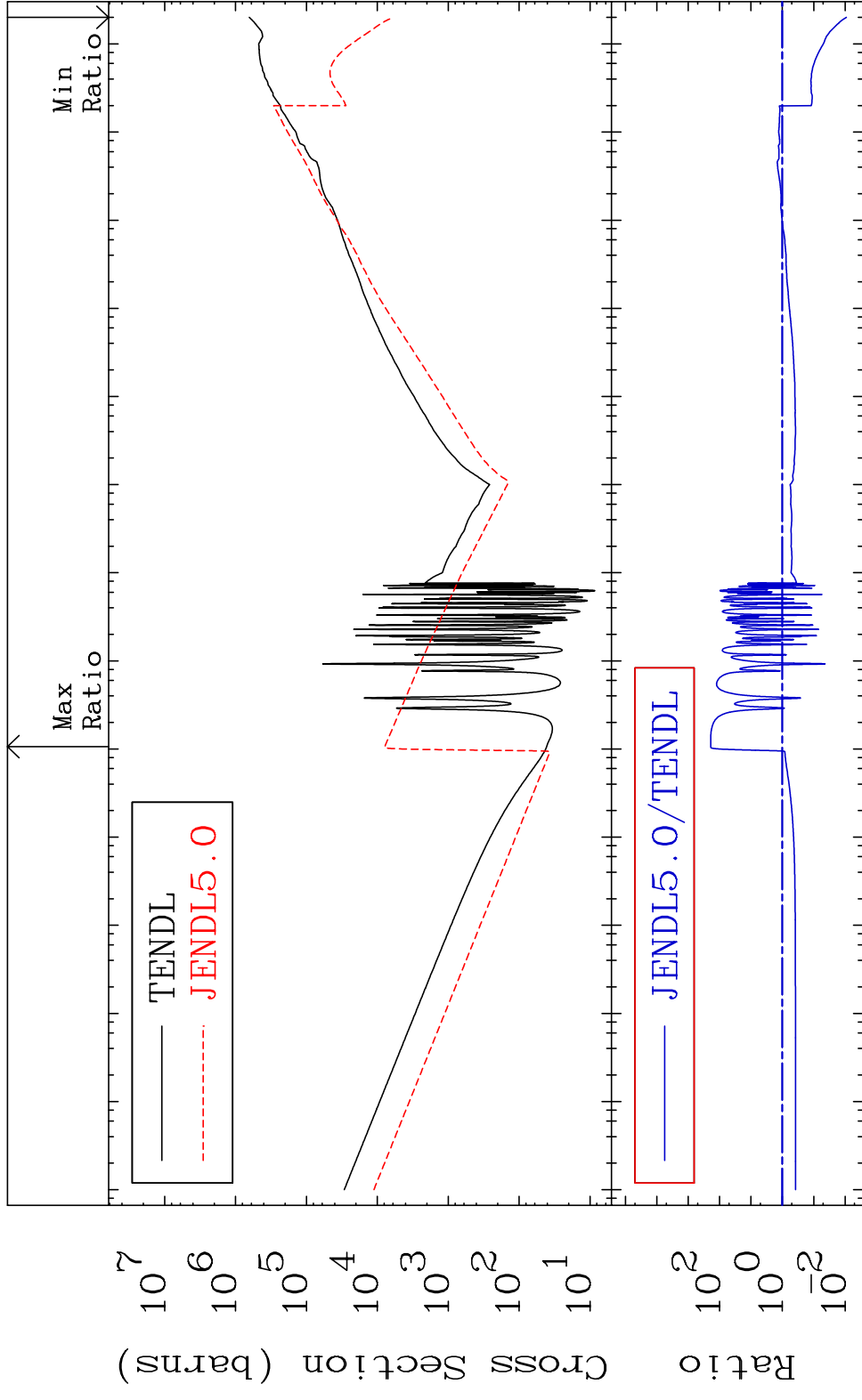


MAT 7122

Dpa total (eV-barns)

71-Lu-174

Cross Section -99.09 To 9999. %

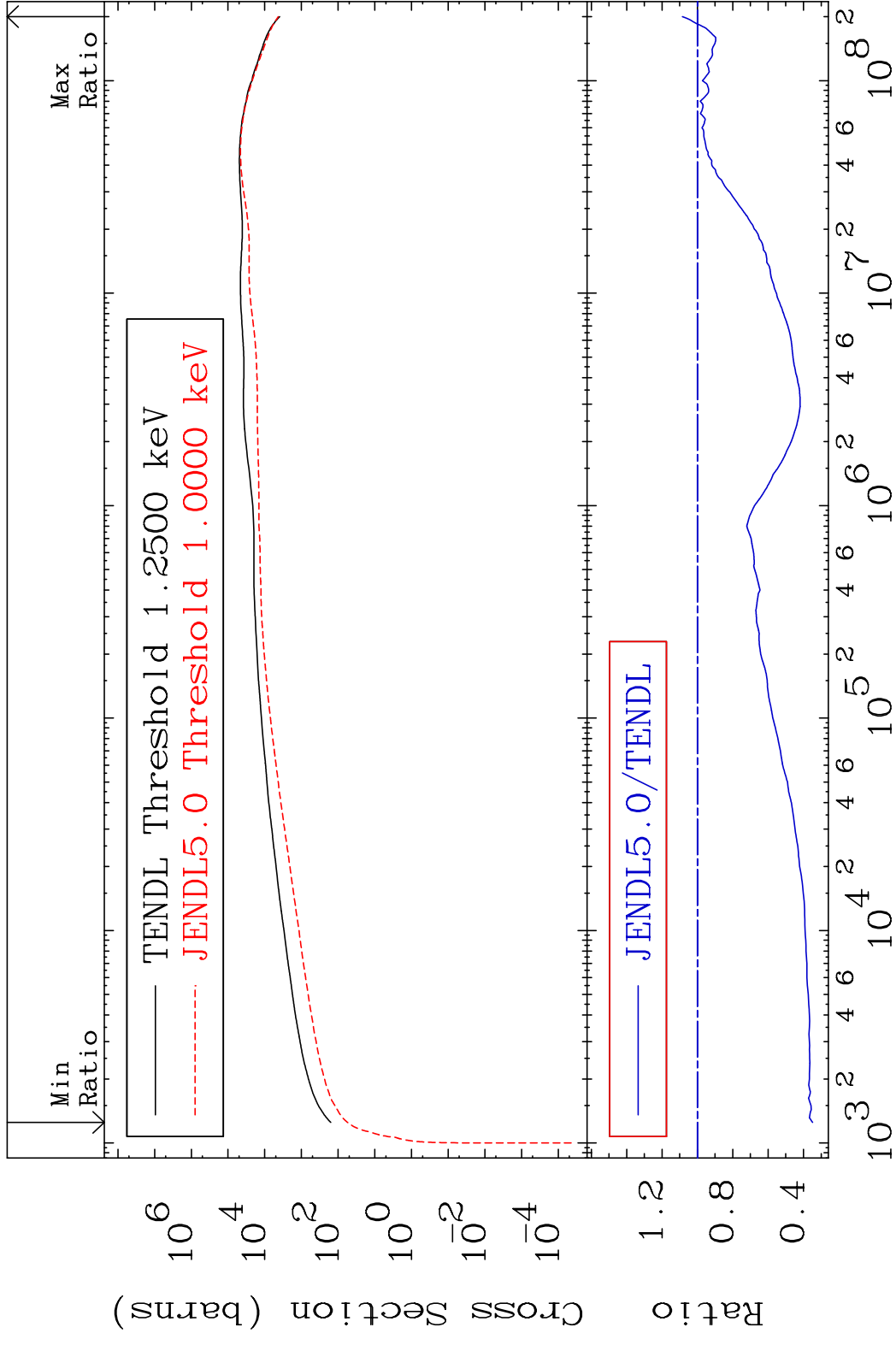


MAT 7122

Dpa elastic (mt2)

71-Lu-174

Cross Section -65.13 To 8.519 %

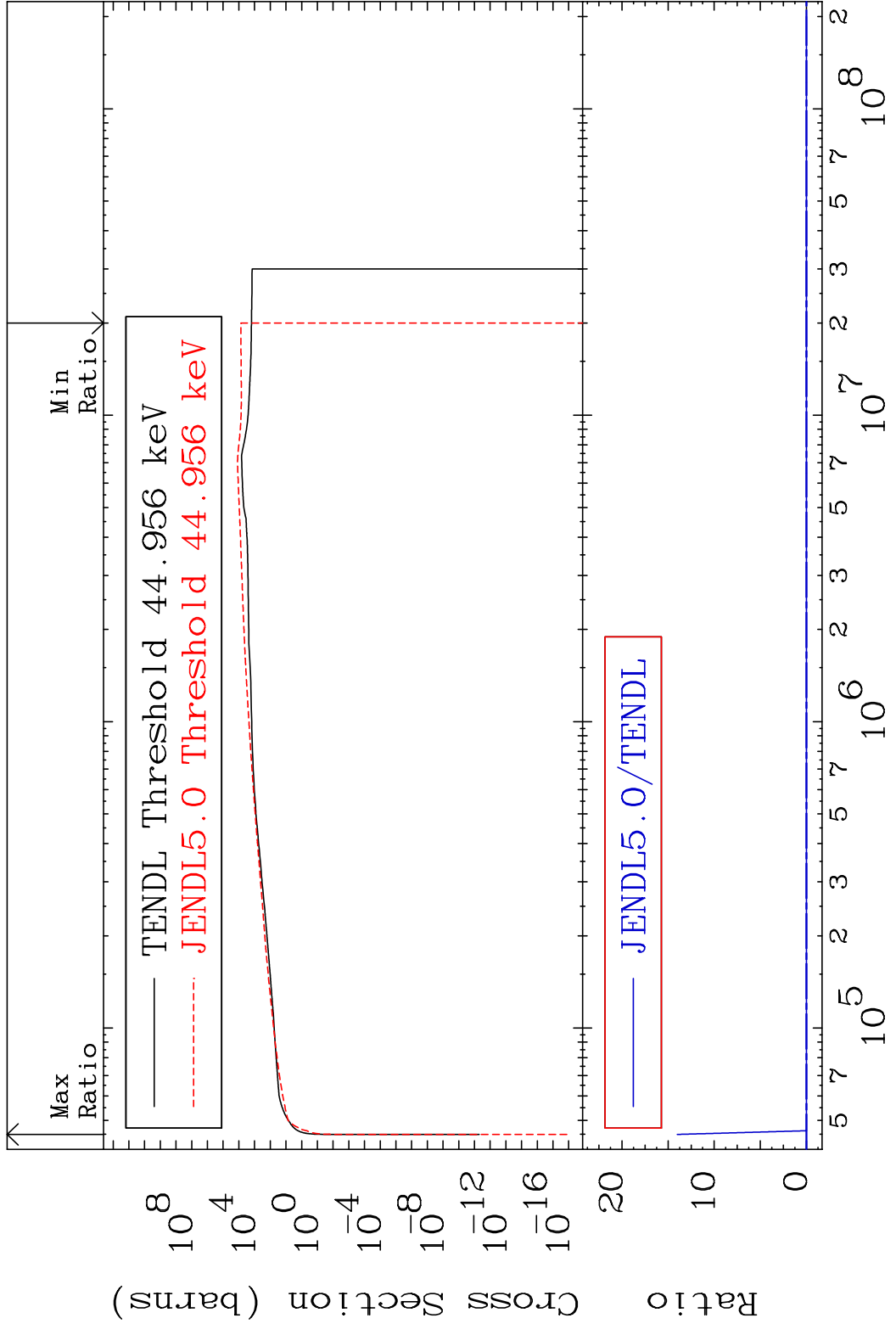


64

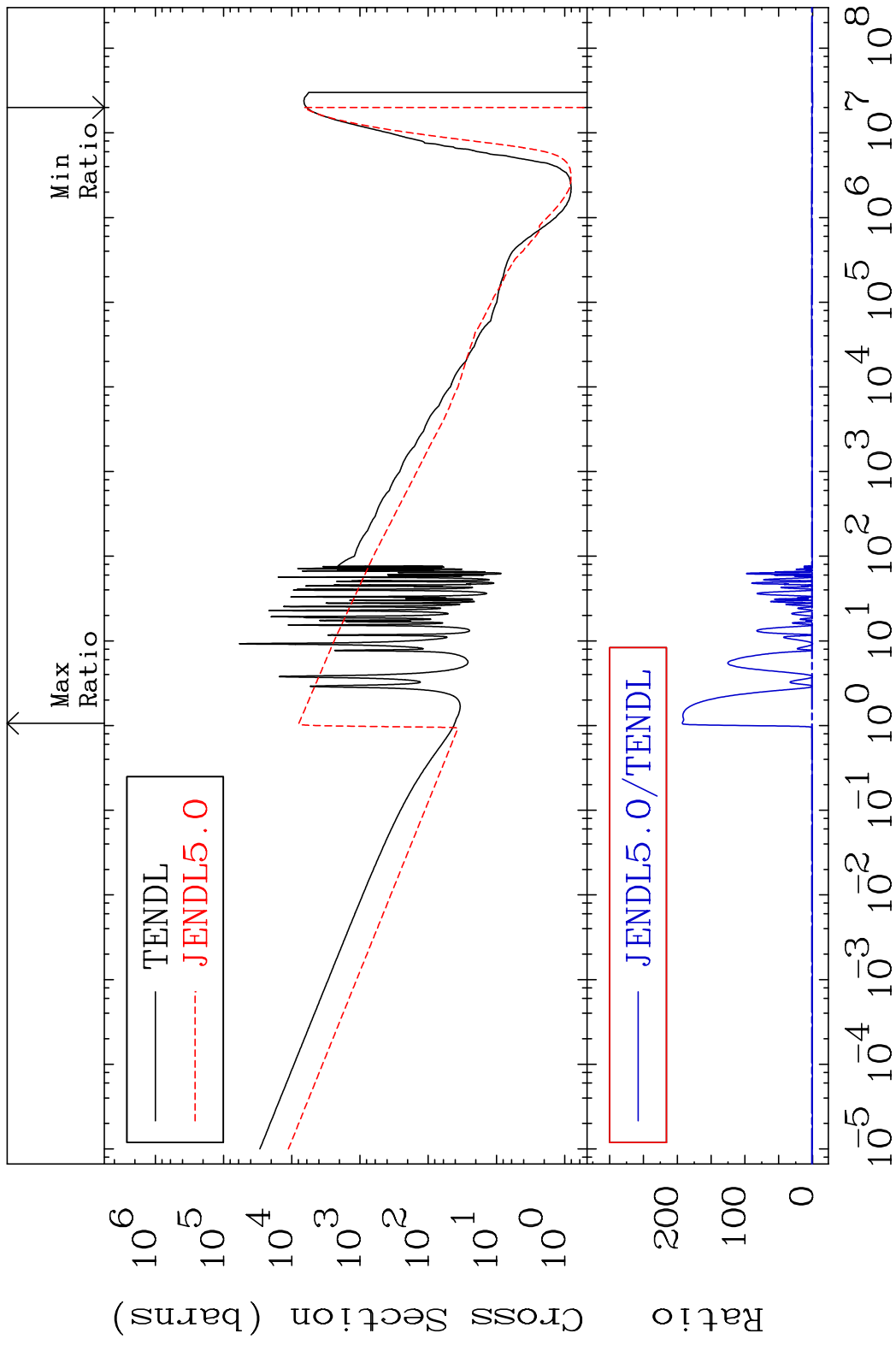
Incident Energy (eV)

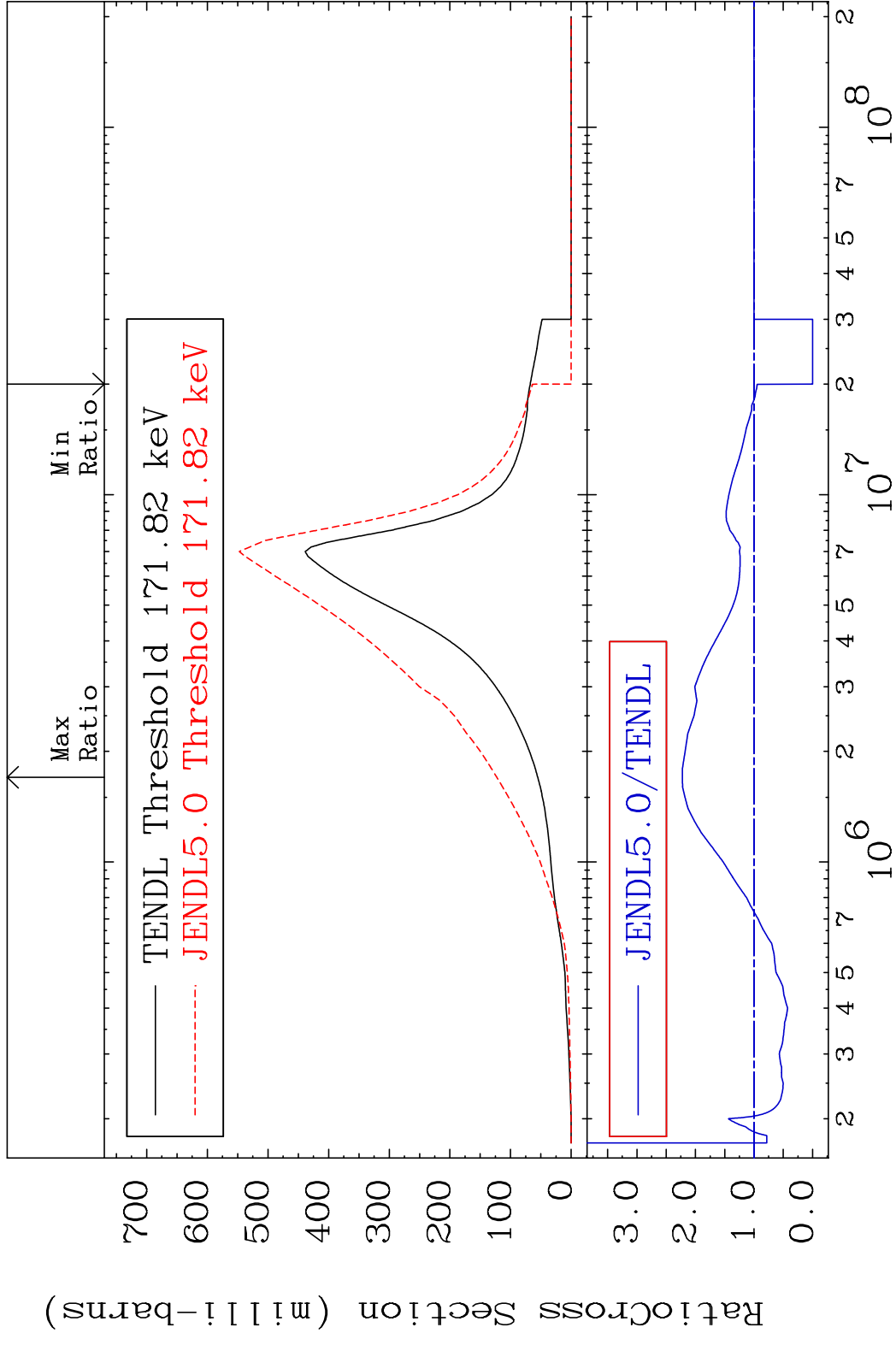
71-Lu-174

MAT 7122 Dpa inelastic (mt51-91) 71-Lu-174  
 Cross Section -100.0 To 9999. %



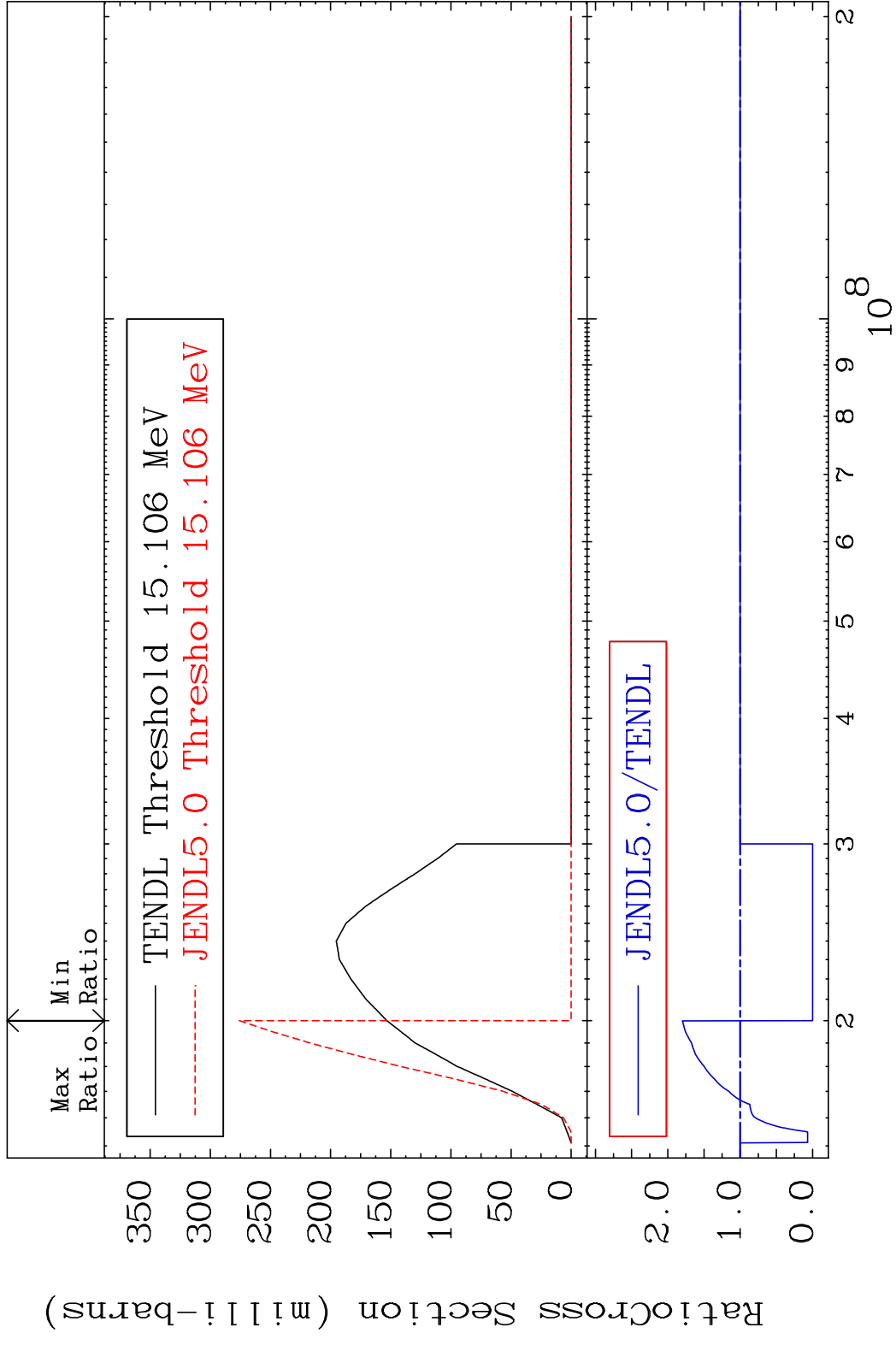
MAT 7122 Dpa disappearance (mt102 -120) 71-Lu-174  
 Cross Section -100.0 To 9999. %



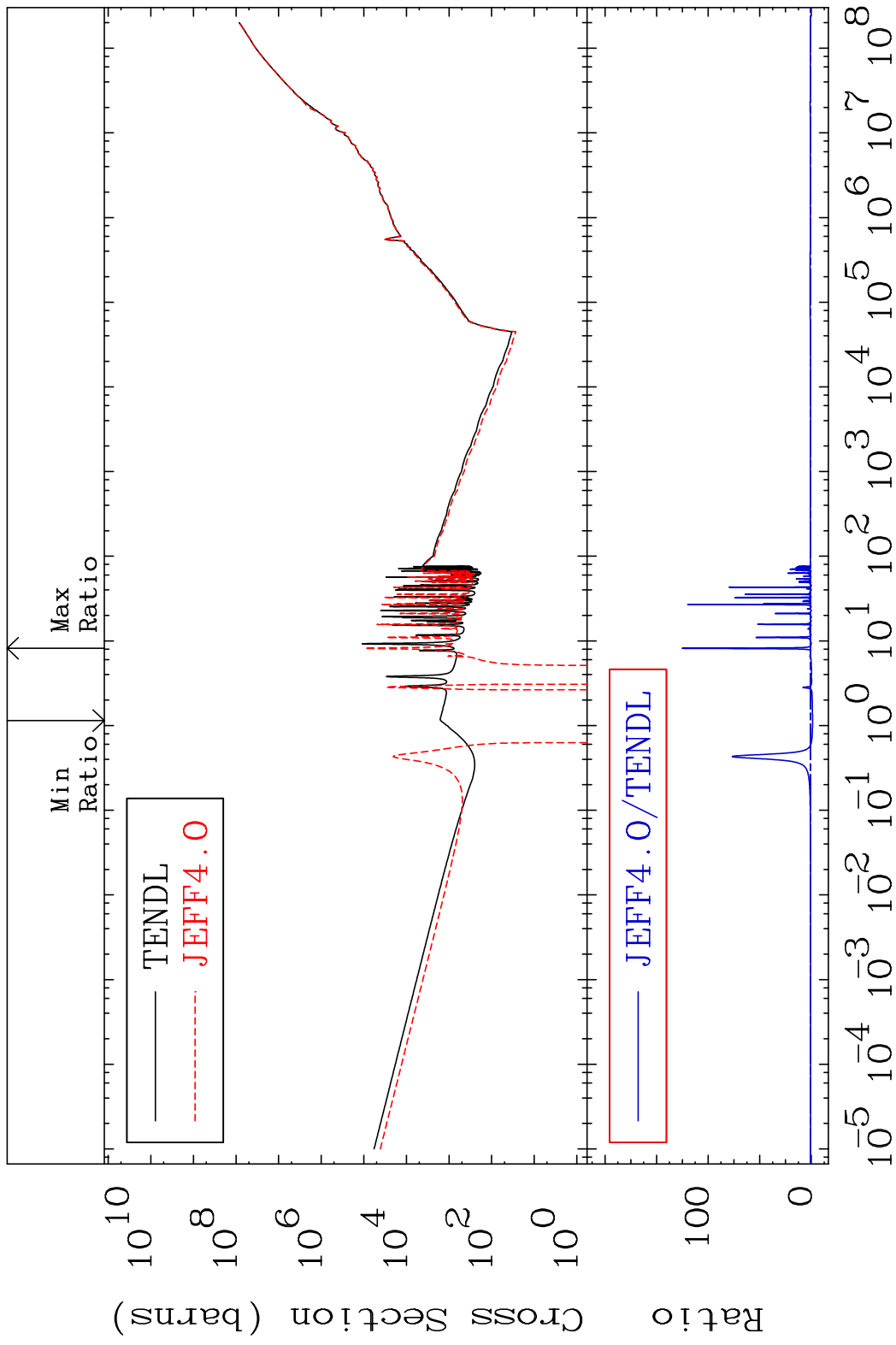




MAT 7122 (n, 3n): 71-Lu-172m1 71-Lu-174  
 Radionuclide Production Cross Section Ratio 79.91 %

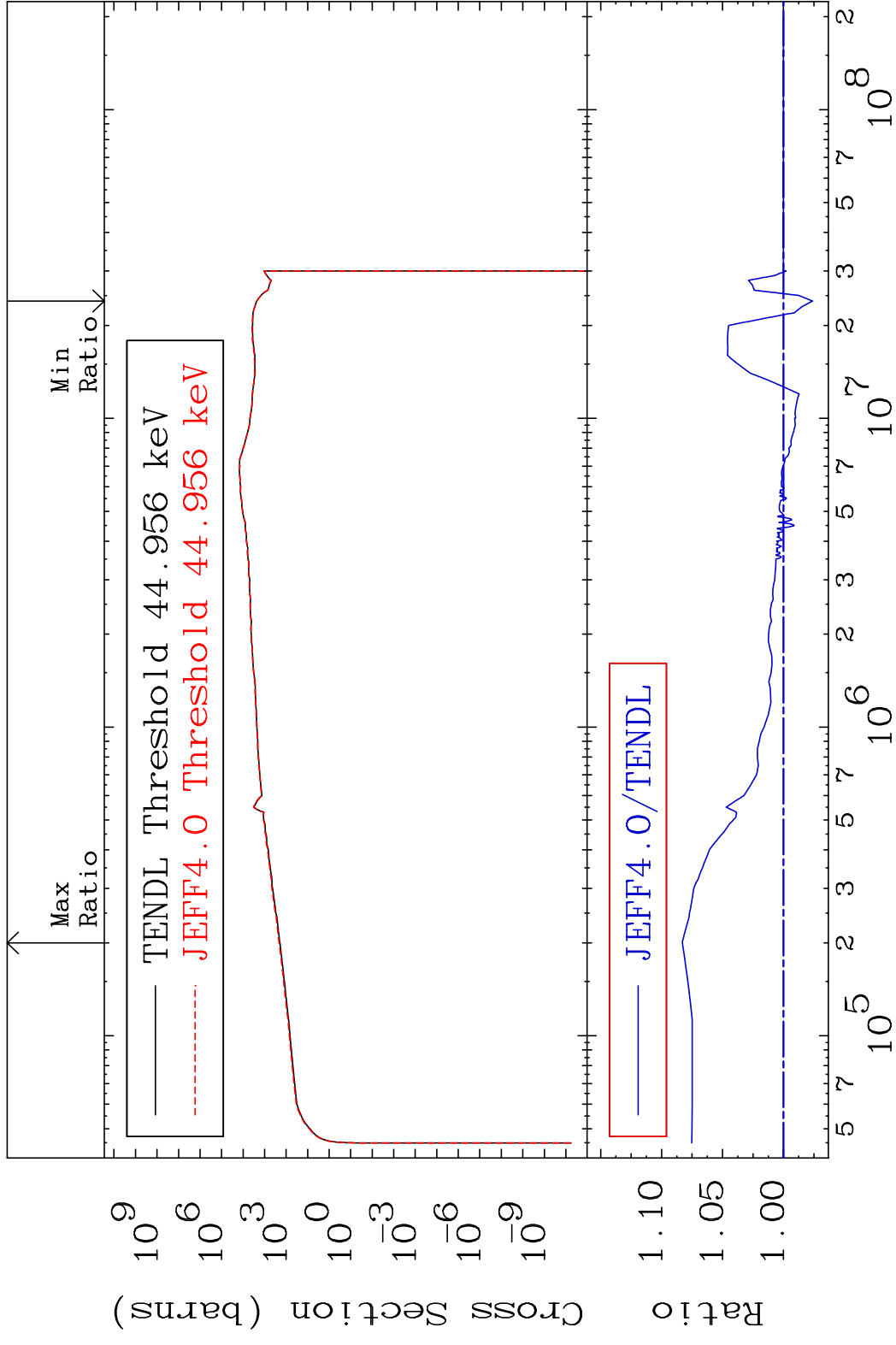


MAT 7122 Kerma non-elastic (all but mt2) 71-Lu-174  
 Cross Section -221.1 To 9999. %

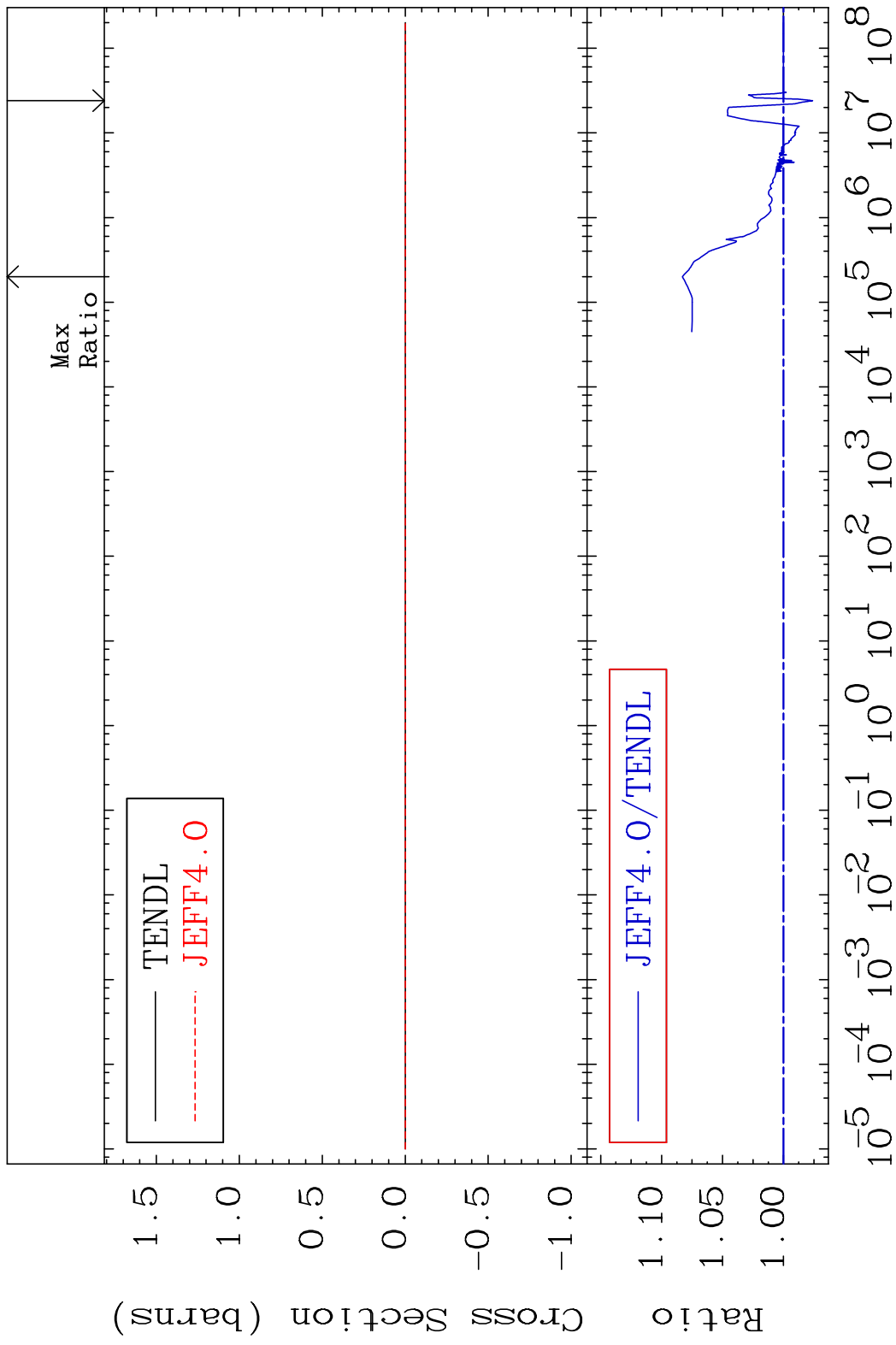


70 Incident Energy (eV) 71-Lu-174

MAT 7122 Kerma inelastic (mt51-91) 71-Lu-174  
 Cross Section -2.382 To 8.298 %

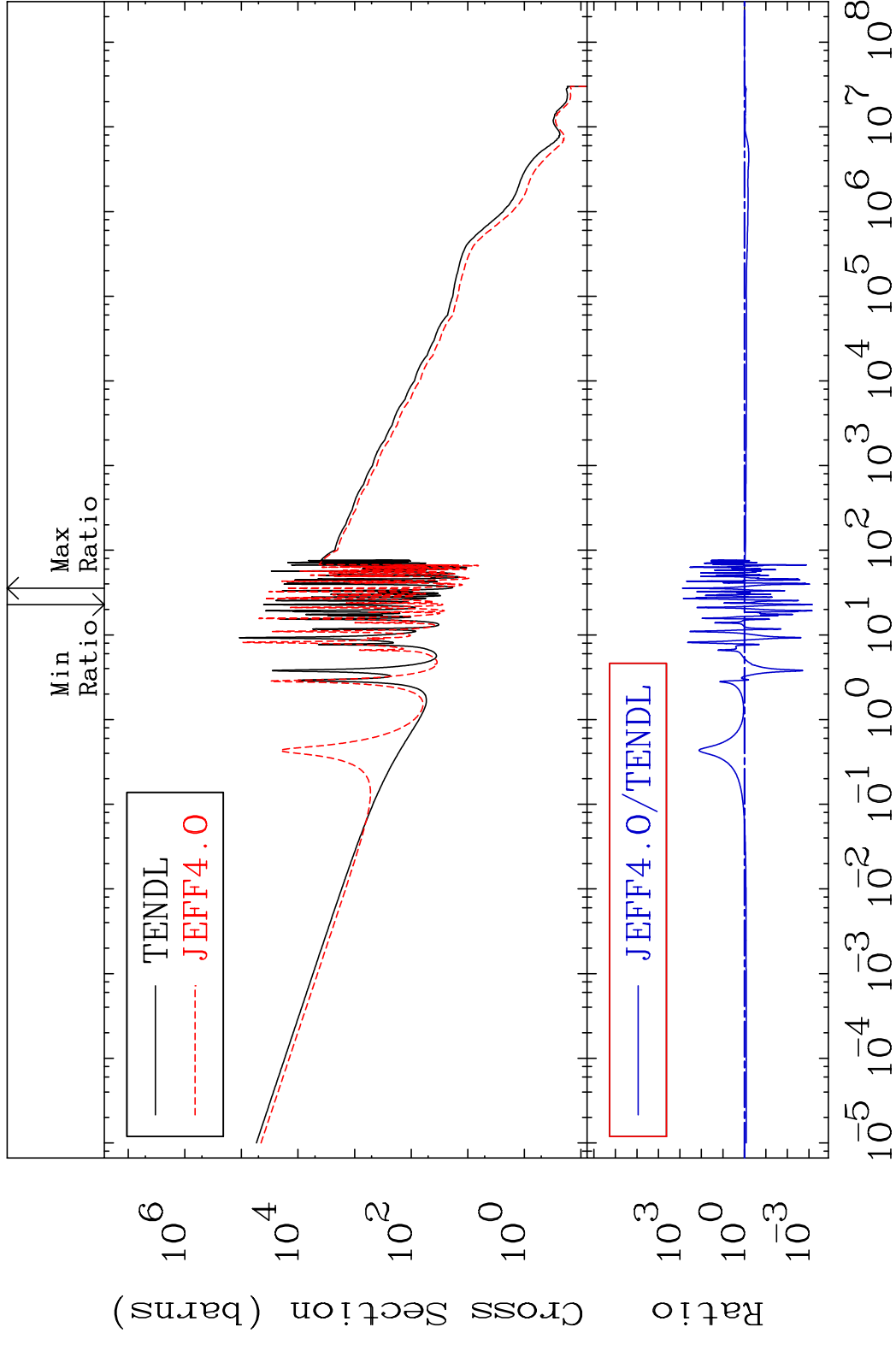


MAT 7122 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-174  
 Cross Section -2.382 To 8.298 %



MAT 7122

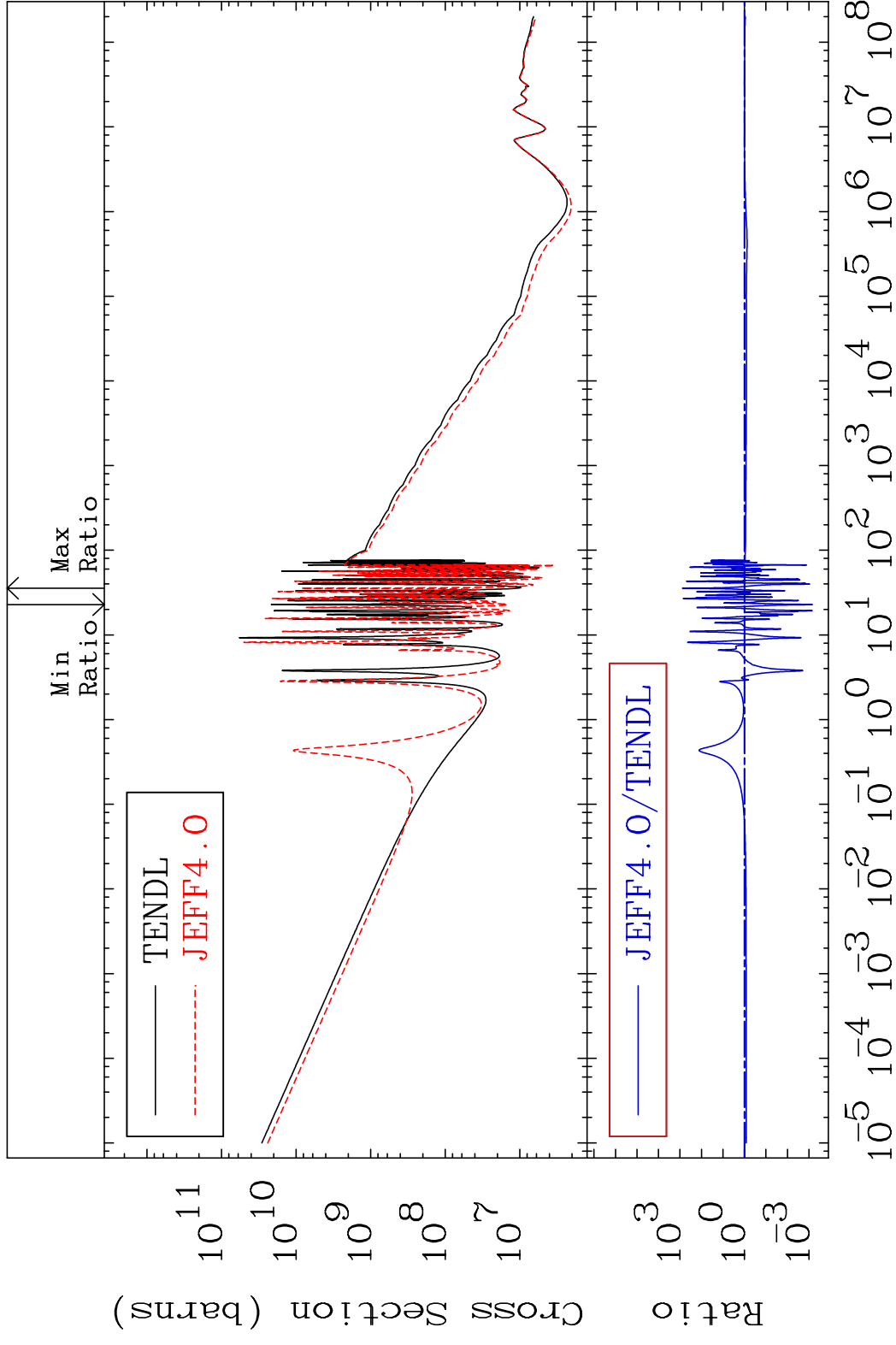
Kerma capture (mt102) 71-Lu-174  
Cross Section -99.93 To 9999. %



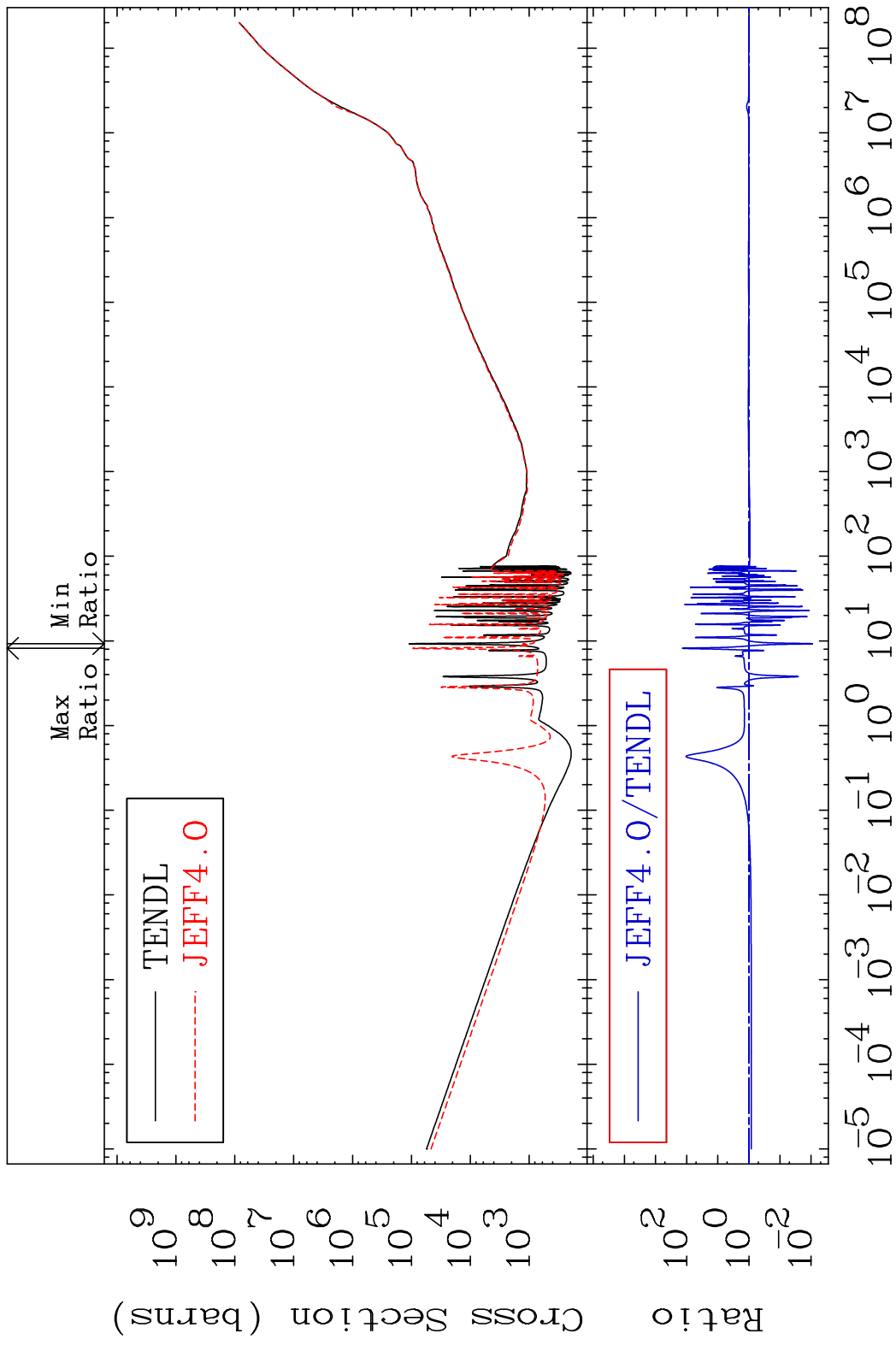
73

Incident Energy (eV) 71-Lu-174

MAT 7122 Total photon (eV-barns) 71-Lu-174  
 Cross Section -99.93 To 9999. %



MAT 7122 Total kinematic kerma (high limit) 71-Lu-174  
 Cross Section -99.10 To 9999. %

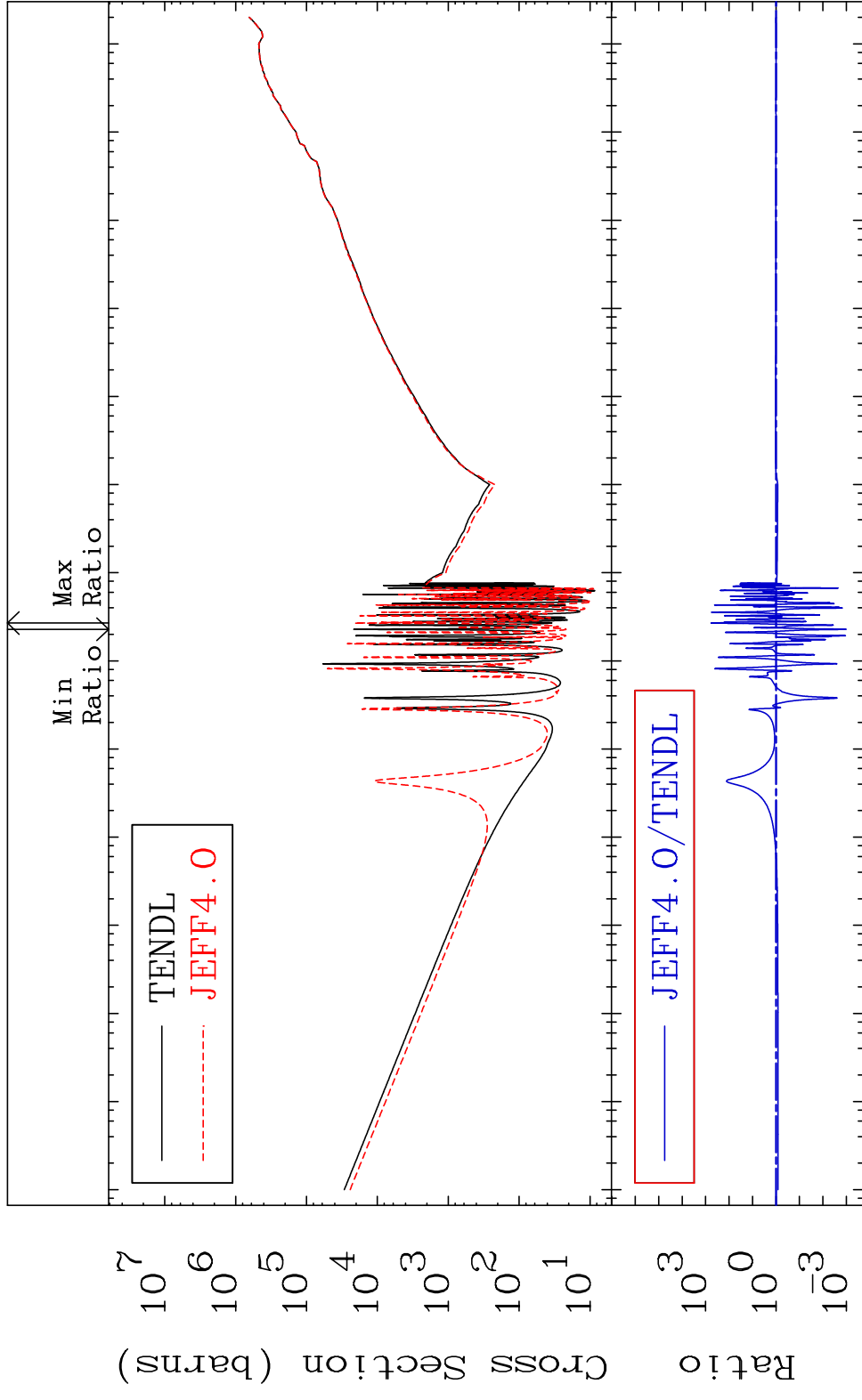


MAT 7122

Dpa total (eV-barns)

71-Lu-174

Cross Section -99.90 To 9999. %



Cross Section (barns)

$10^7$   
 $10^6$   
 $10^5$   
 $10^4$   
 $10^3$   
 $10^2$   
 $10^1$

Ratio

$10^3$   
 $10^0$   
 $10^{-3}$

Incident Energy (eV)

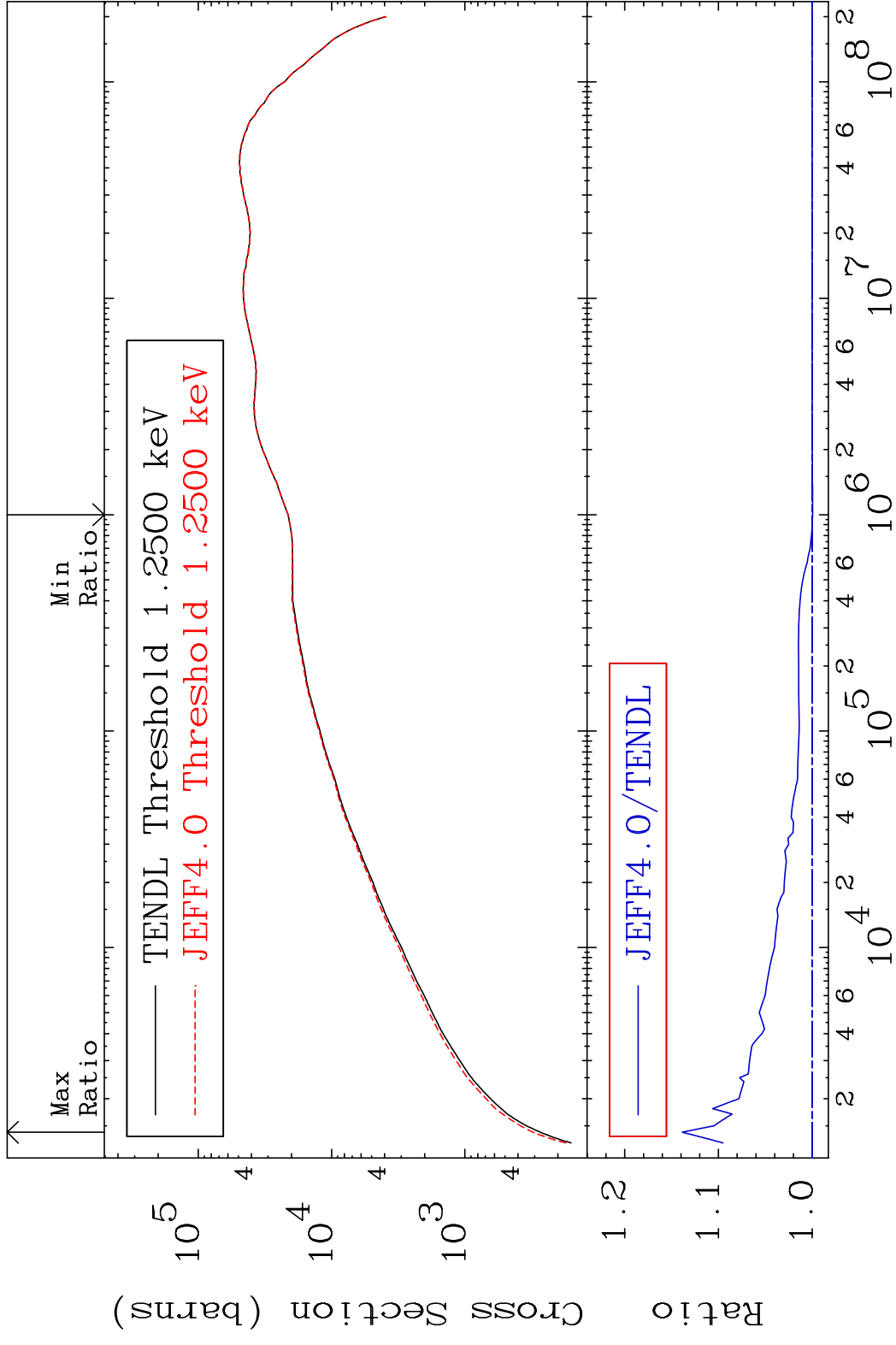
$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

MAT 7122

Dpa elastic (mt2)

71-Lu-174

Cross Section -0.041 To 13.86 %

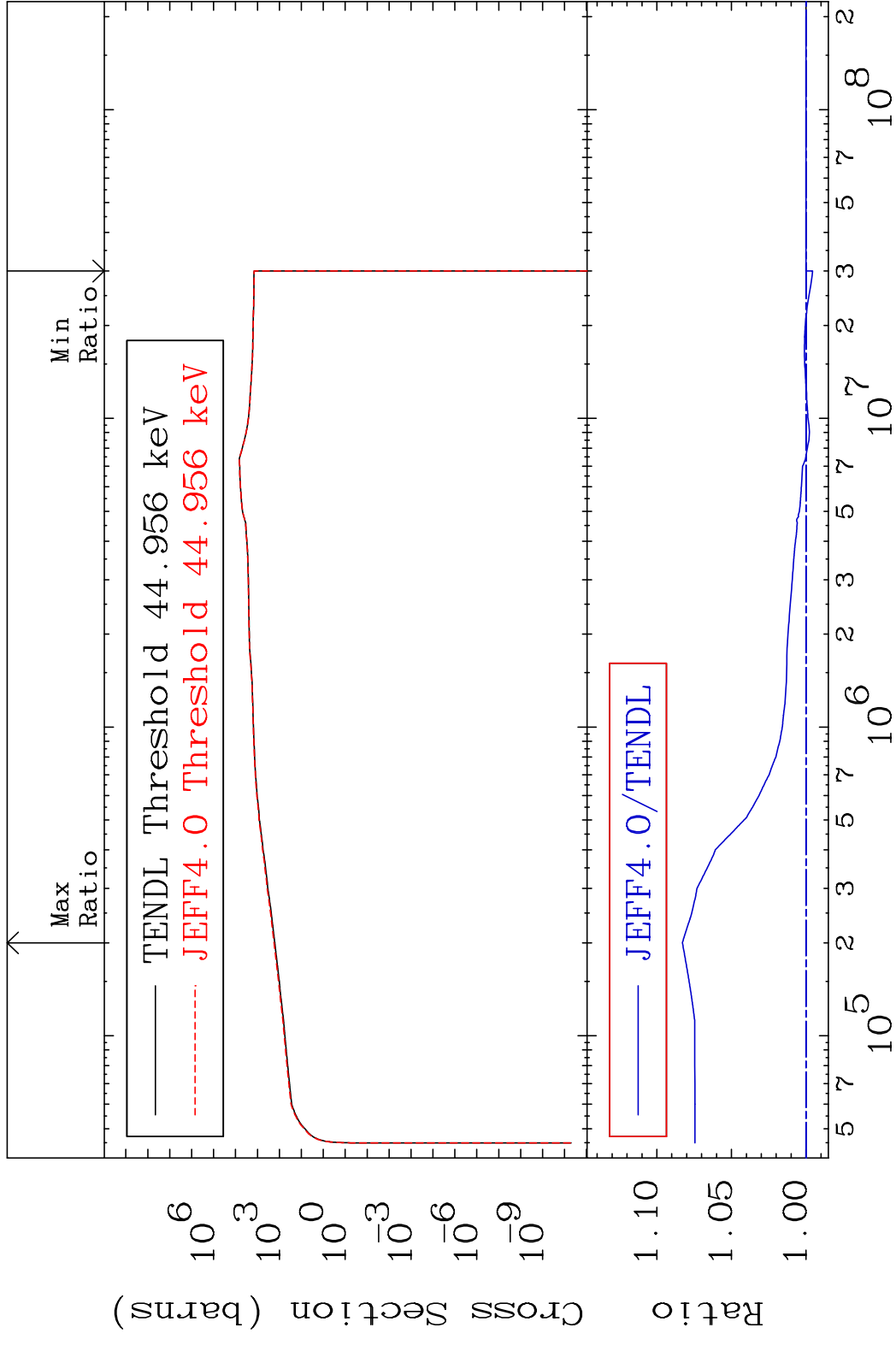


MAT 7122

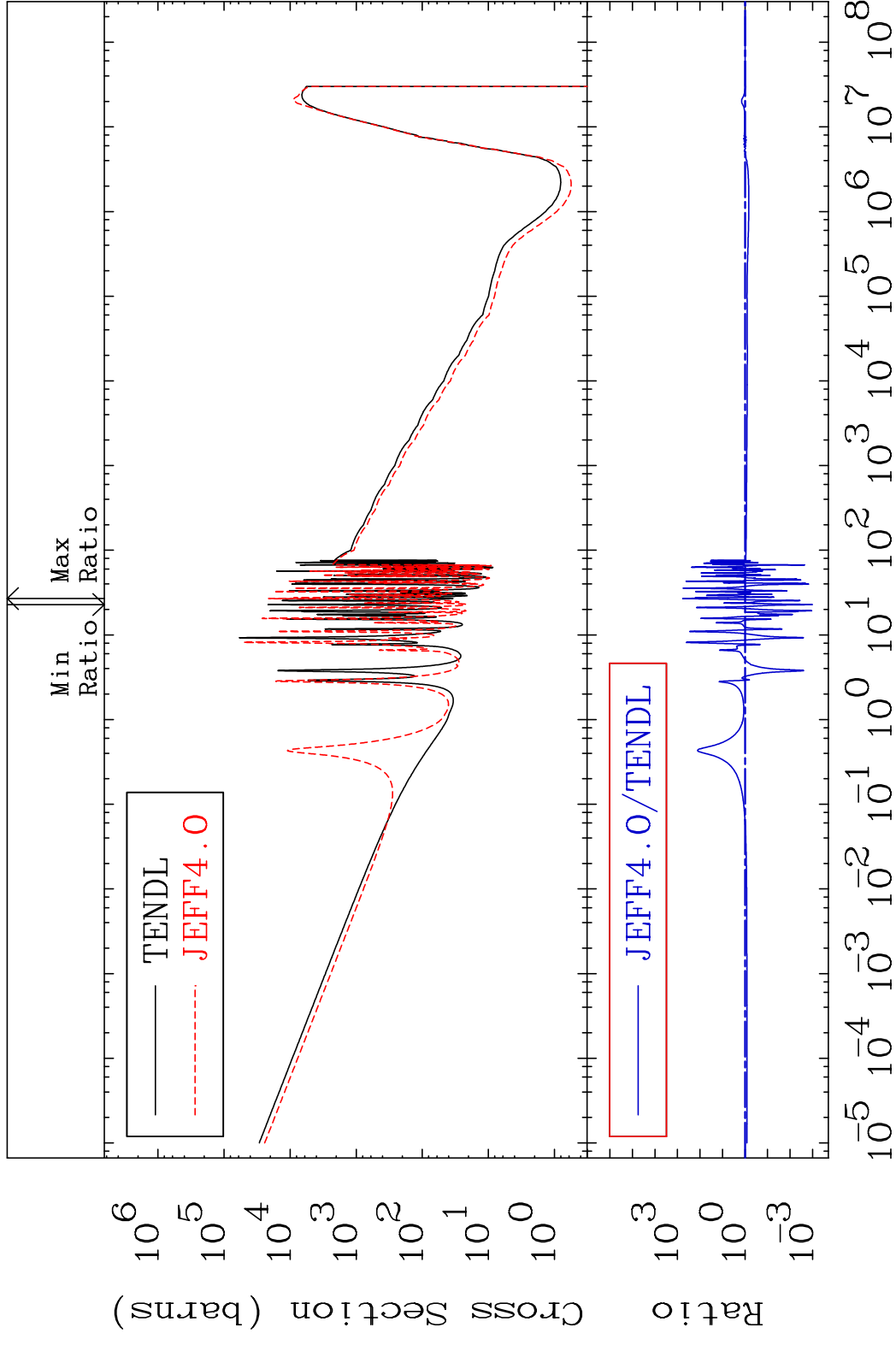
Dpa inelastic (mt51-91)

71-Lu-174

Cross Section -0.436 To 8.291 %

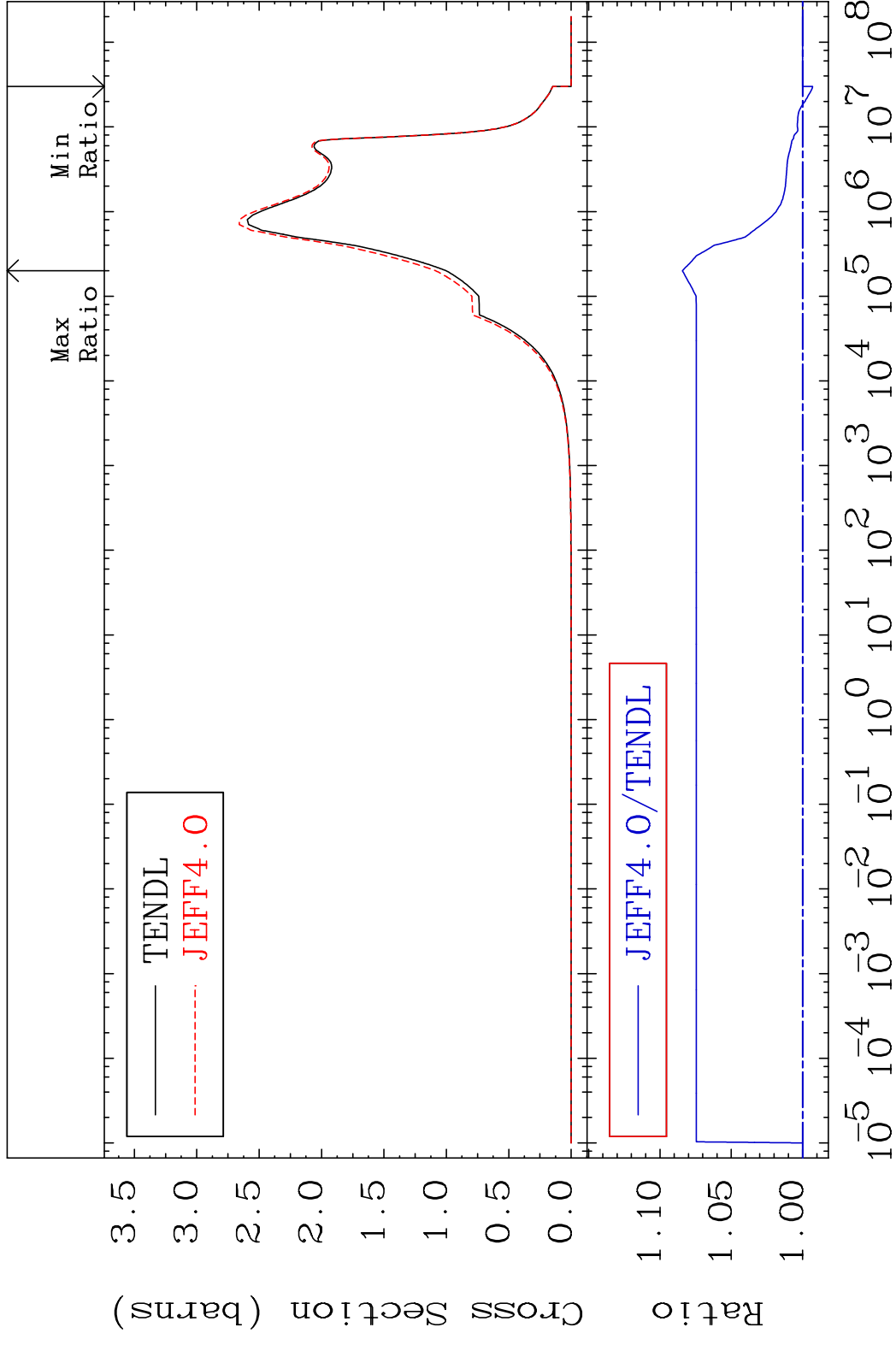


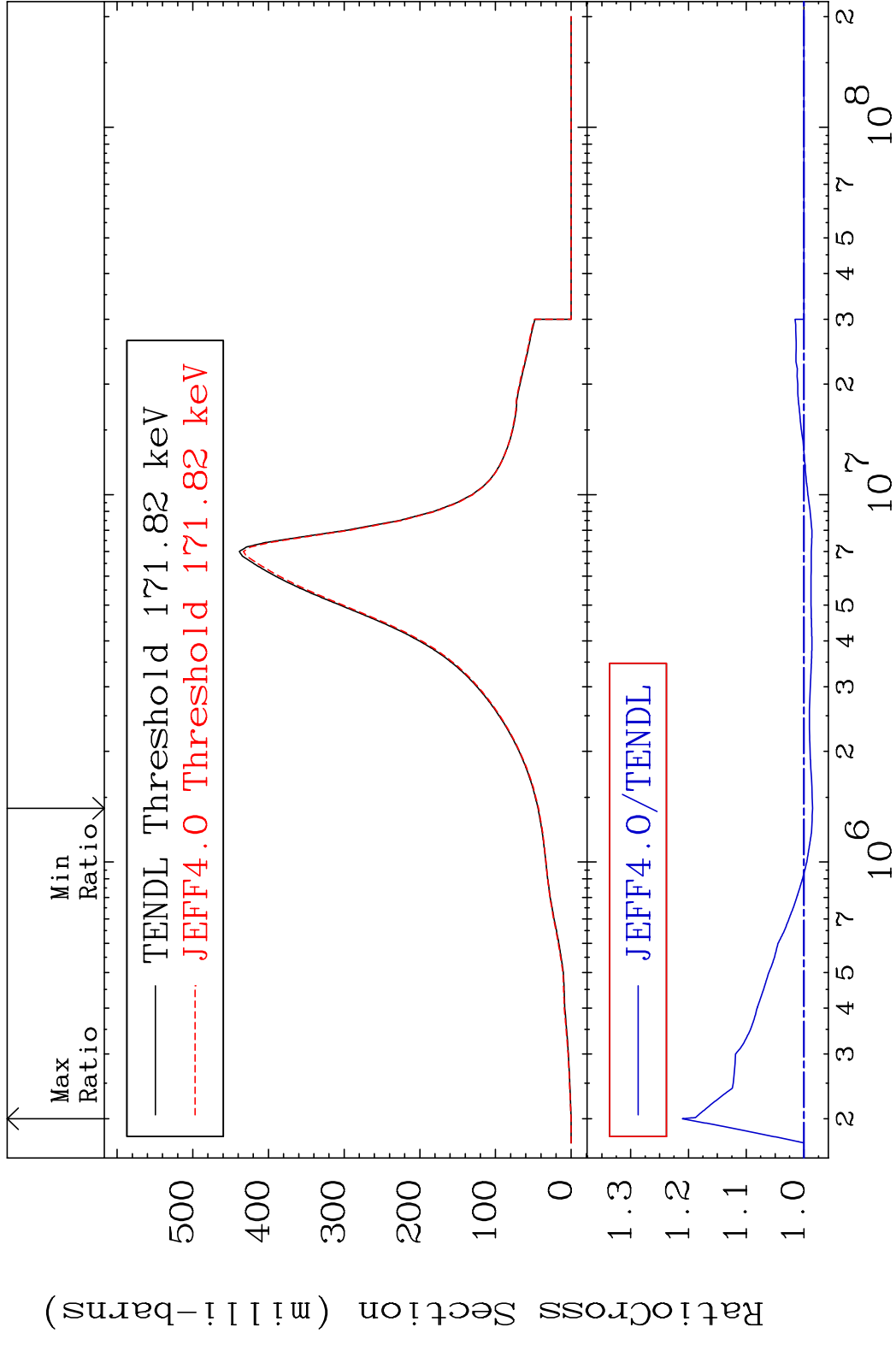
MAT 7122 Dpa disappearance (mt102 -120) 71-Lu-174  
 Cross Section -99.90 To 9999. %

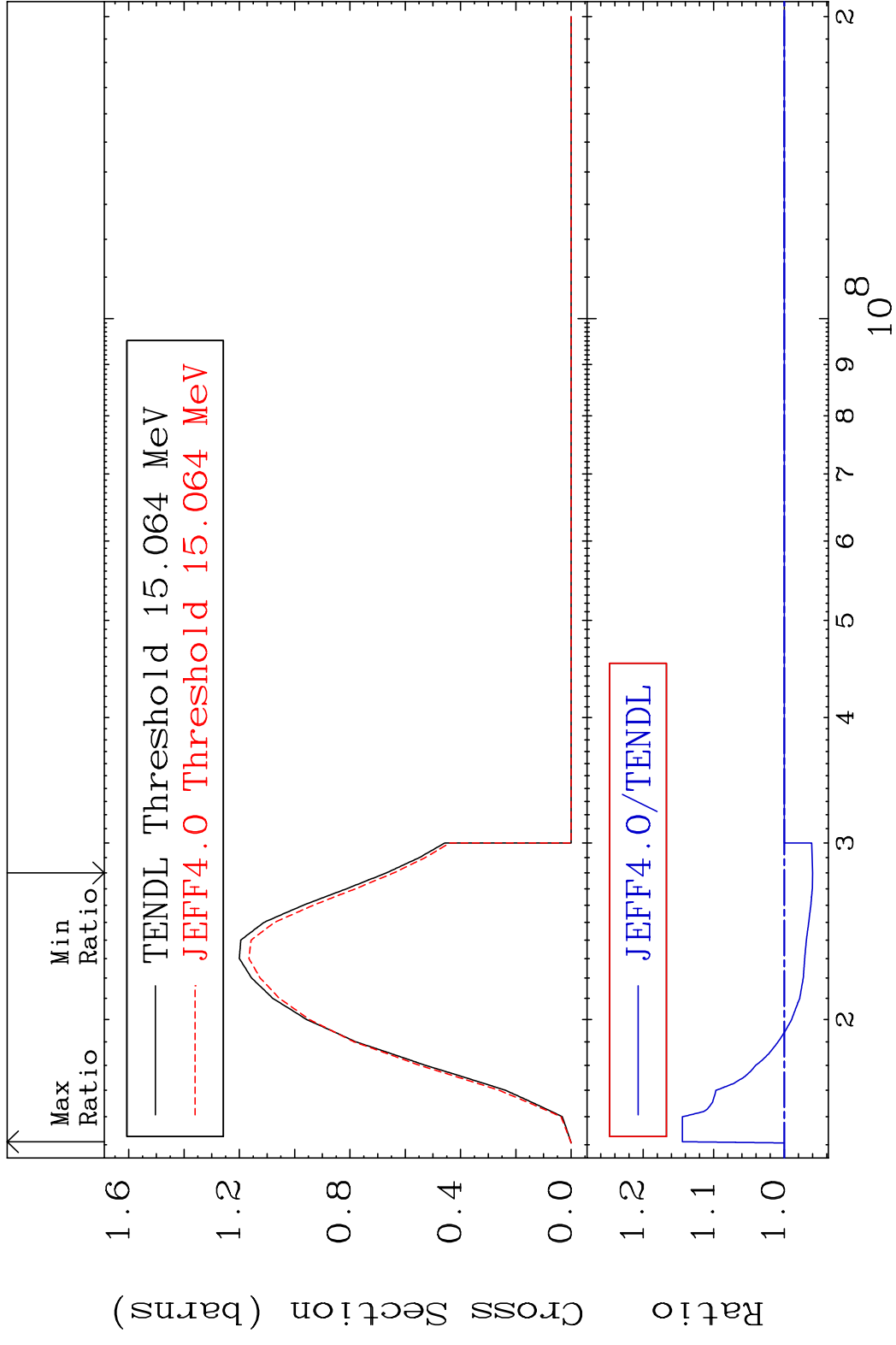


79 Incident Energy (eV) 71-Lu-174

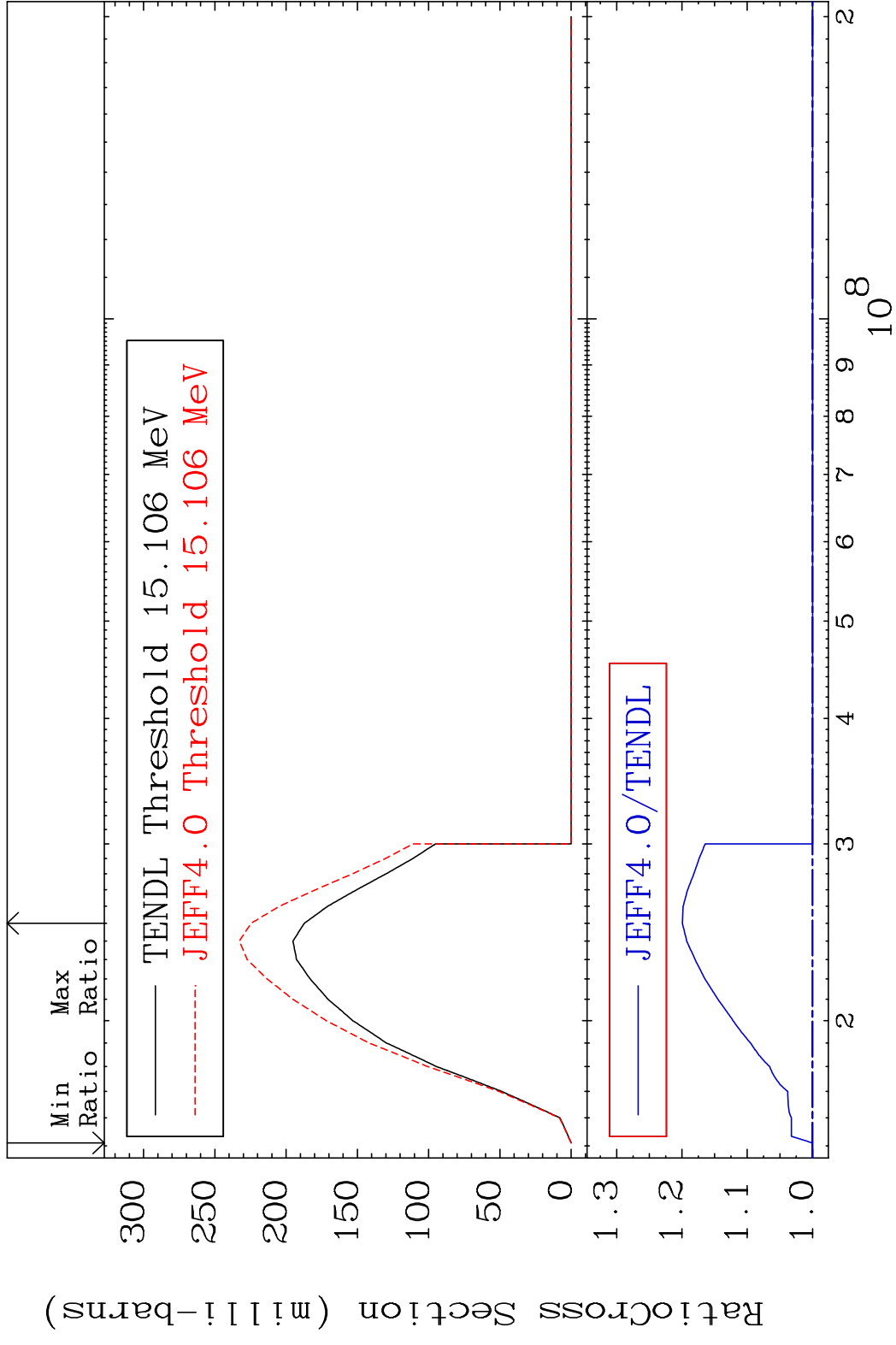
MAT 7122 Inelastic:71-Lu-174g 71-Lu-174  
 Radionuclide Production Cross Section 8.429 %



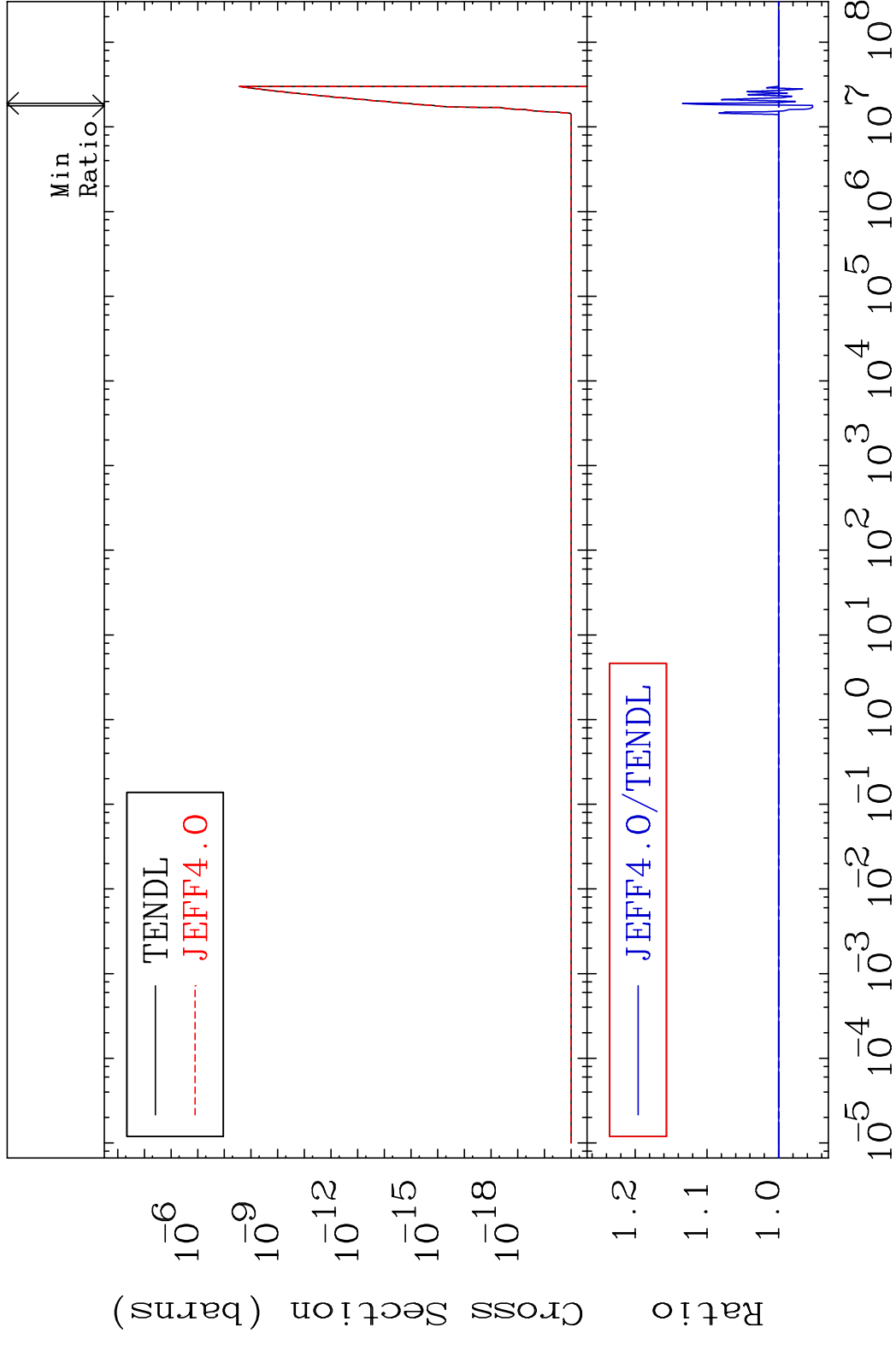




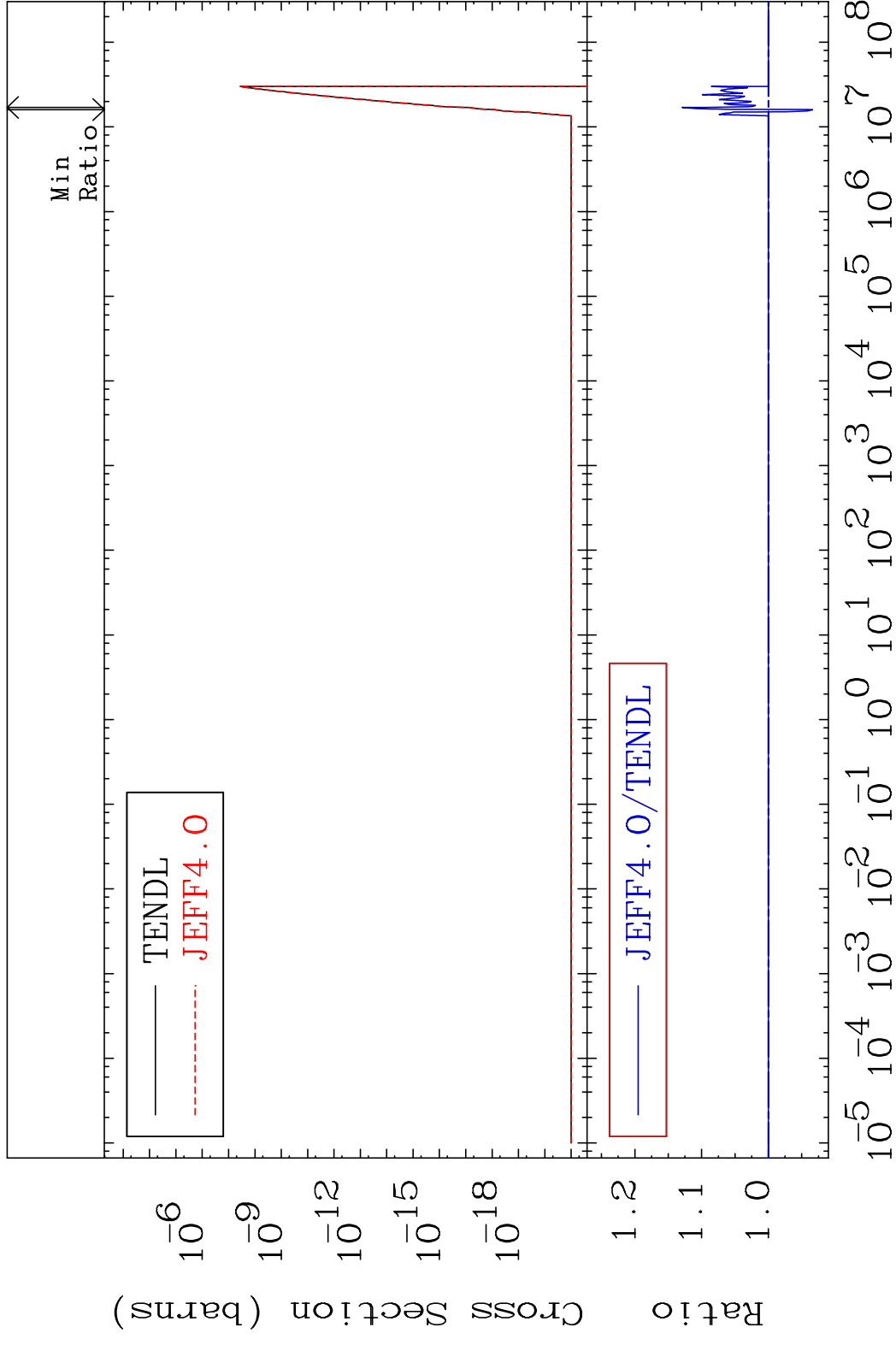
MAT 7122 (n, 3n): 71-Lu-172m1 71-Lu-174  
 Radionuclide Production Cross Section 19.94 %



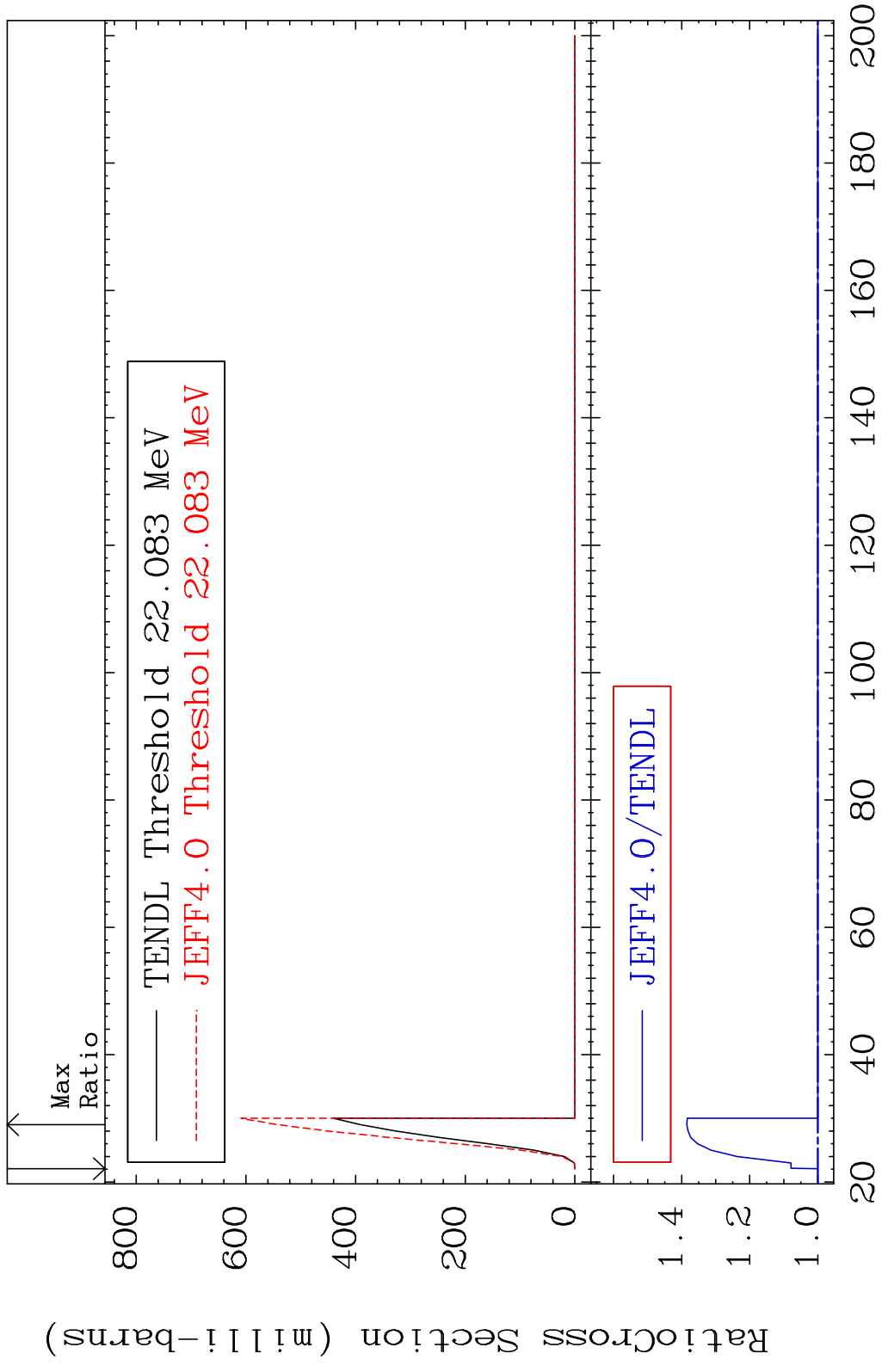
MAT 7122 (n, n') 2α:67-Ho-166g 71-Lu-174  
 Radionuclide Production Cross Section 13.43 %



MAT 7122 (n, n')  $2\alpha$ :67-Ho-166m1 71-Lu-174  
 Radionuclide Production Cross Section Ratio 12.89 %



MAT 7122 (n,4n):71-Lu-171g 71-Lu-174  
 Radionuclide Production Cross Section 38.51 %



MAT 7122 (n, 4n): 71-Lu-171m1 71-Lu-174  
 Radionuclide Production Cross Section to 0.000 %

