

Program Complot  
(Version 2021-1)

by

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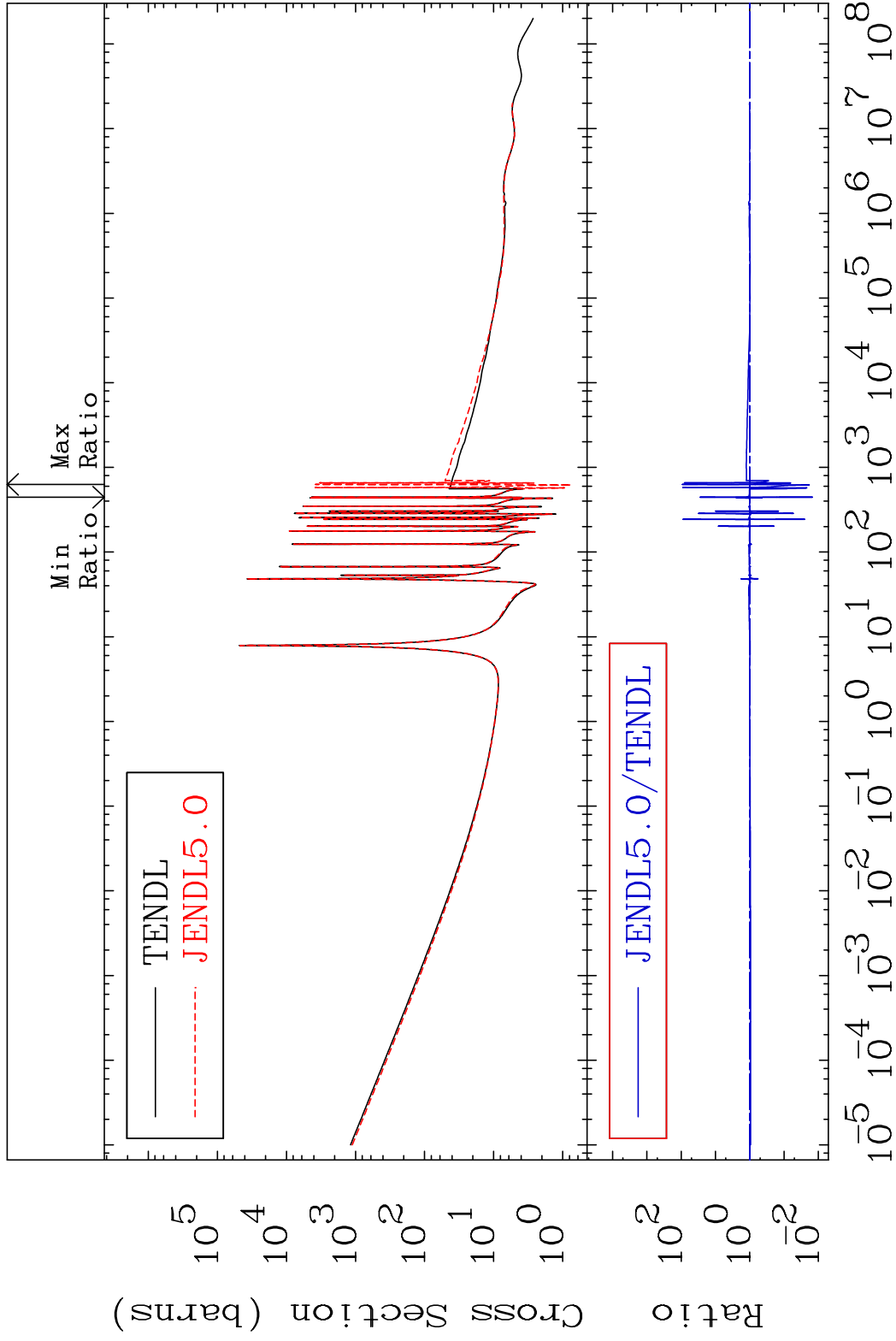
Press Mouse Button to Start

MAT 7231

Total

72-Hf-176

Cross Section -98.53 To 9141. %



1

Incident Energy (eV)

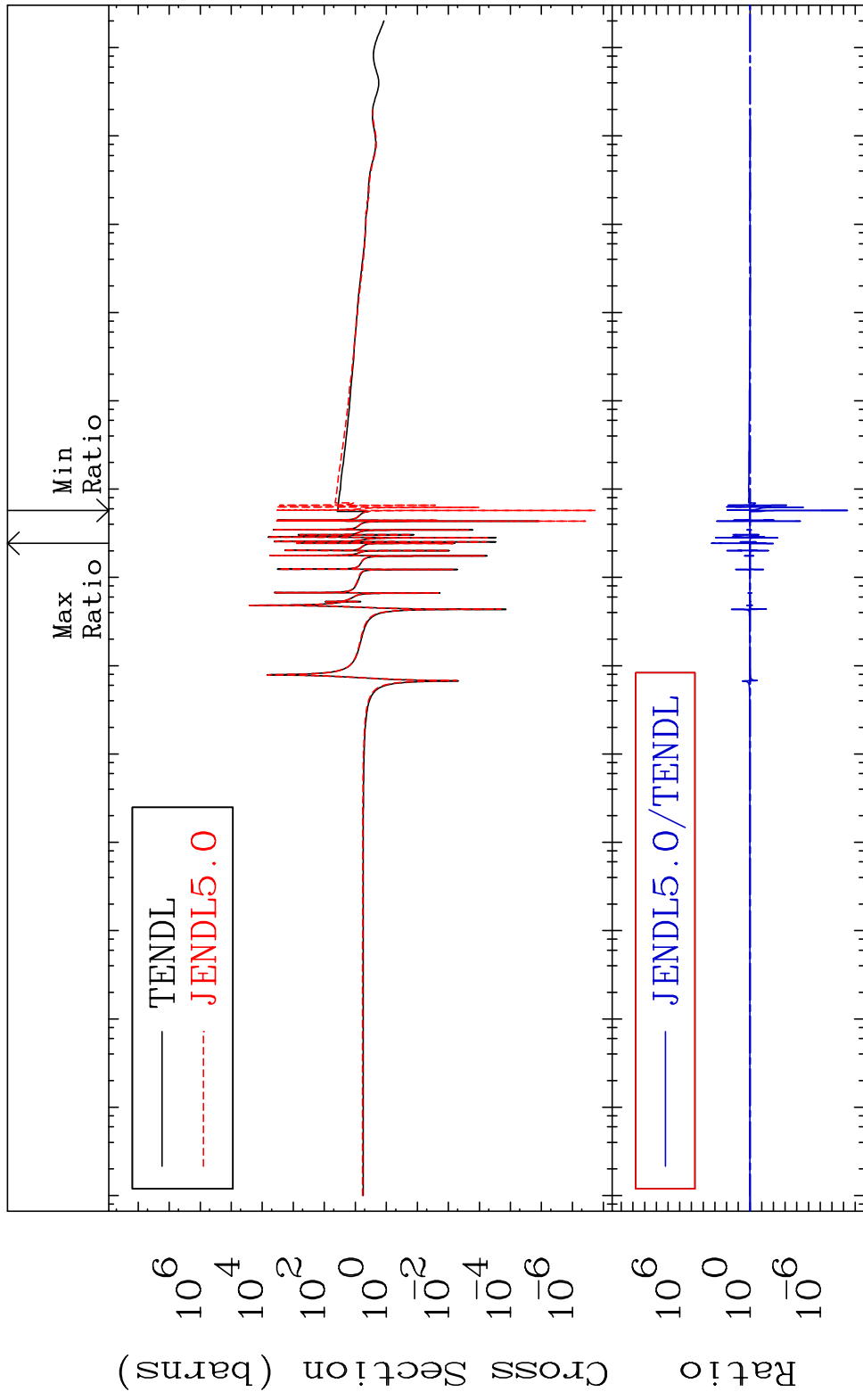
72-Hf-176

MAT 7231

Elastic

72-Hf-176

Cross Section -100.0 To 9999. %



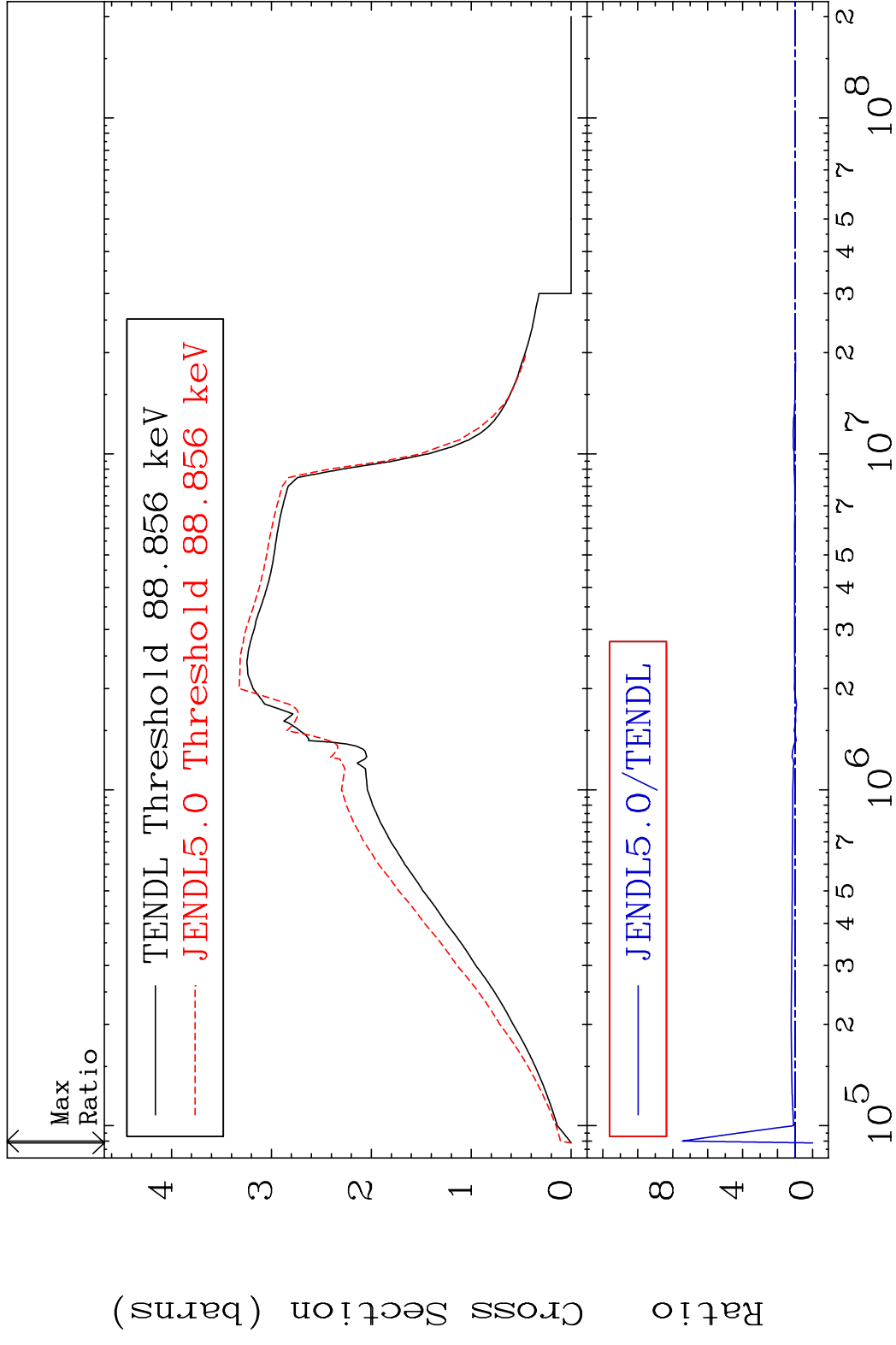
Ratio

2

Incident Energy (eV)

72-Hf-176

MAT 7231 Inelastic 72-Hf-176  
 Cross Section -100.0 To 644.8 %



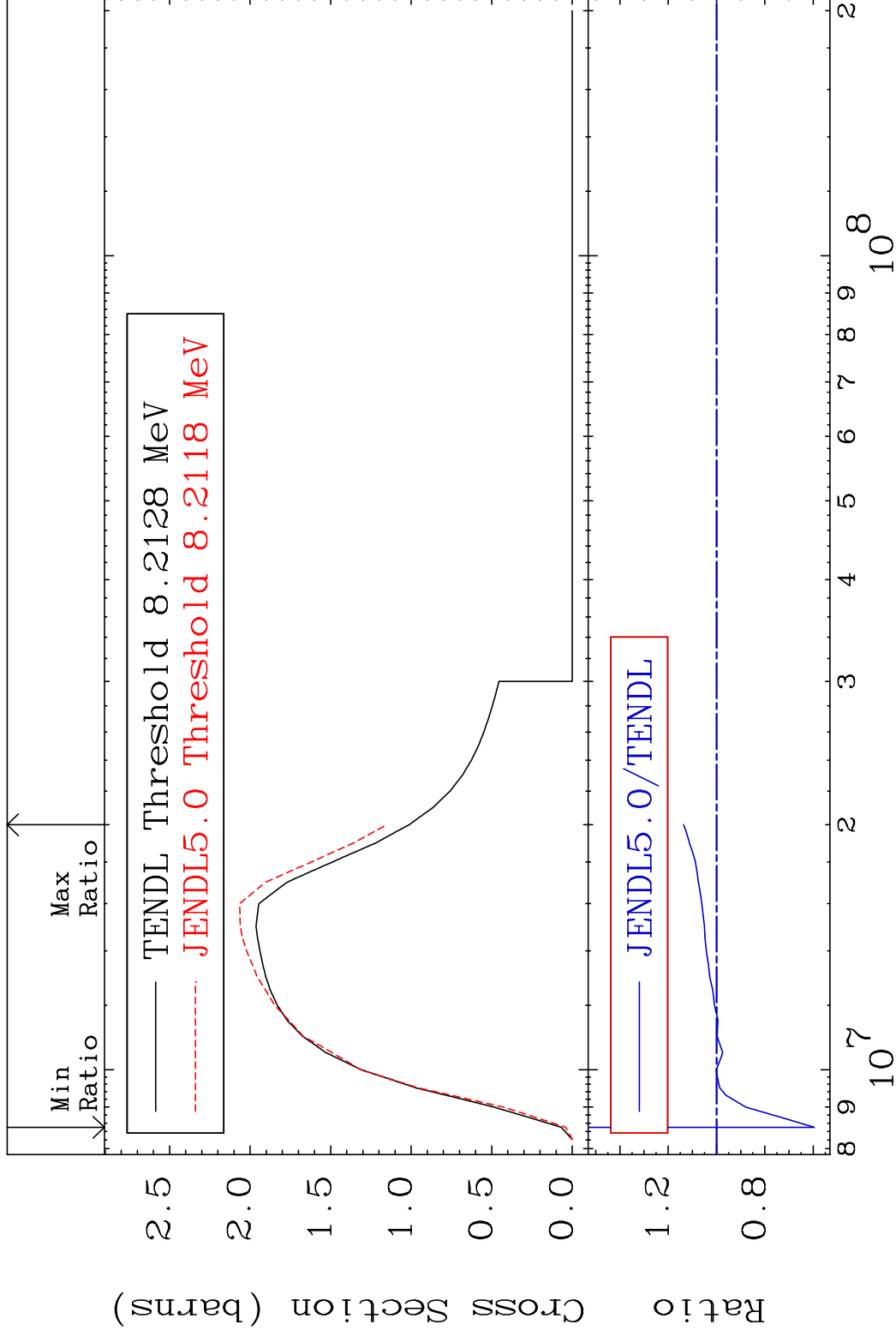
3 Incident Energy (eV) 72-Hf-176

MAT 7231

(n,2n)

72-Hf-176

Cross Section -40.36 To 13.61 %



4

Incident Energy (eV)

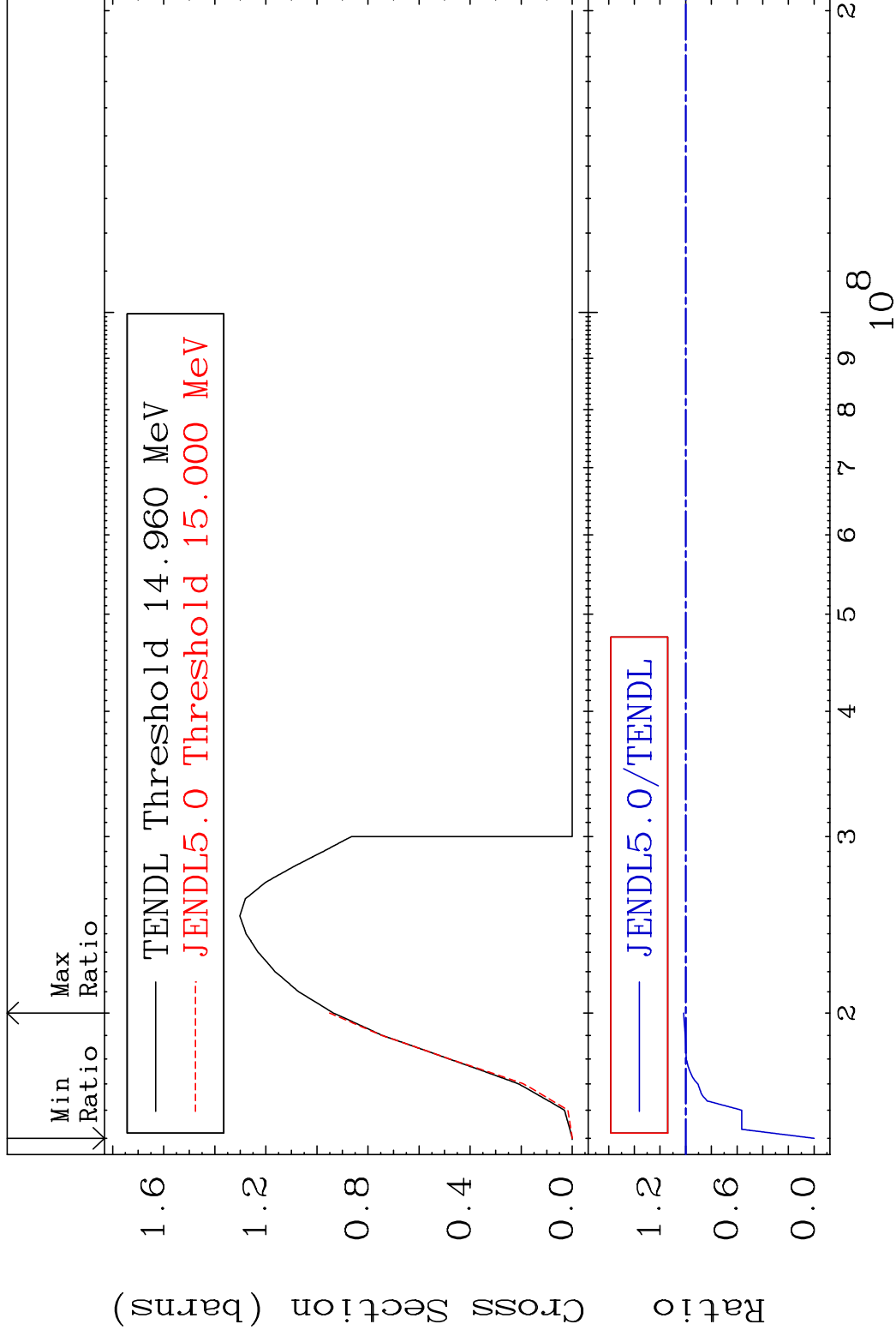
72-Hf-176

MAT 7231

(n,3n)

72-Hf-176

Cross Section -100.0 To 1.581 %



5

Incident Energy (eV)

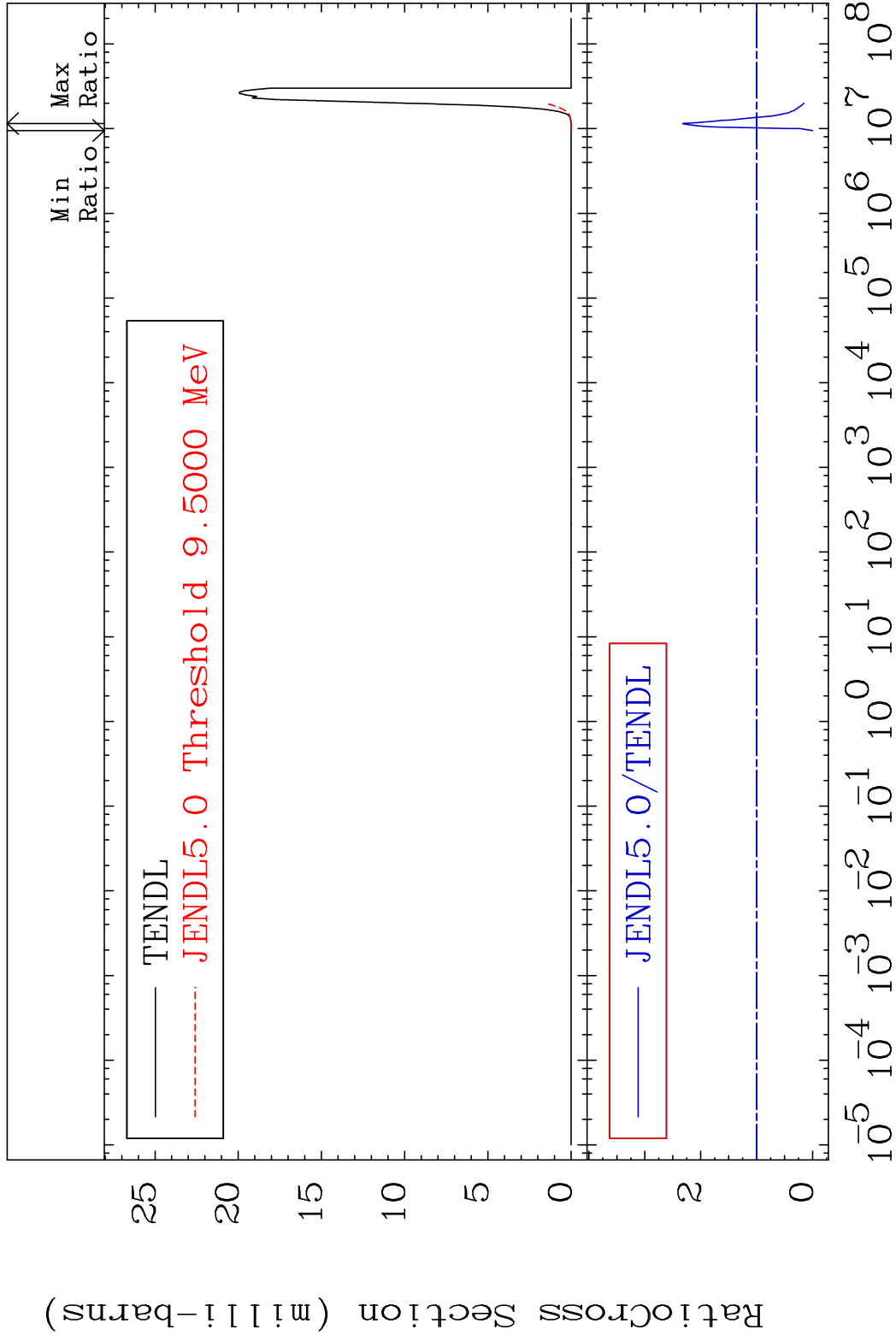
72-Hf-176

MAT 7231

(n, n')  $\alpha$

72-Hf-176

Cross Section -100.0 To 132.8 %



6

Incident Energy (eV)

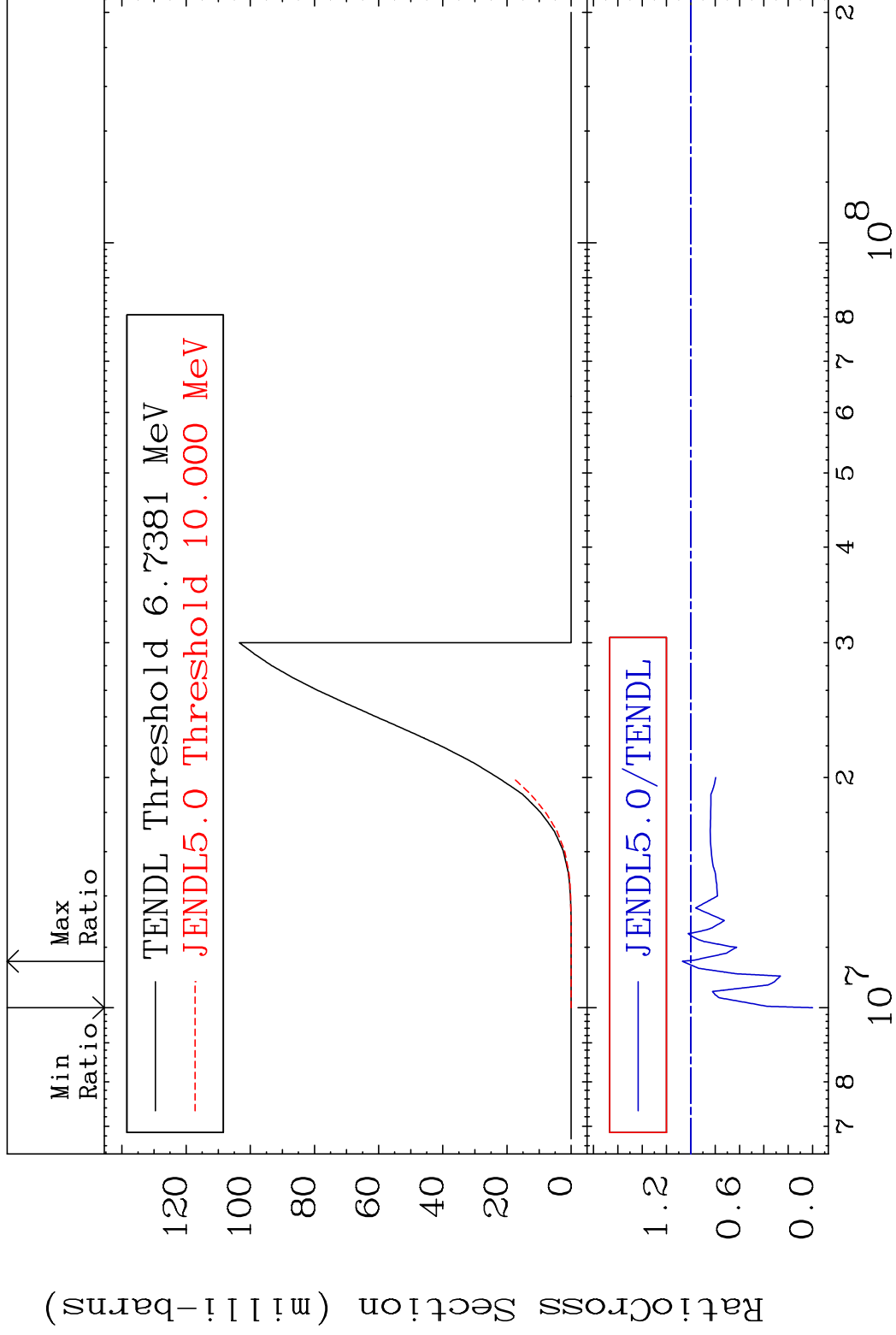
72-Hf-176

MAT 7231

(n, n') p

72-Hf-176

Cross Section -100.0 To 6.986 %



7

Incident Energy (eV)

72-Hf-176

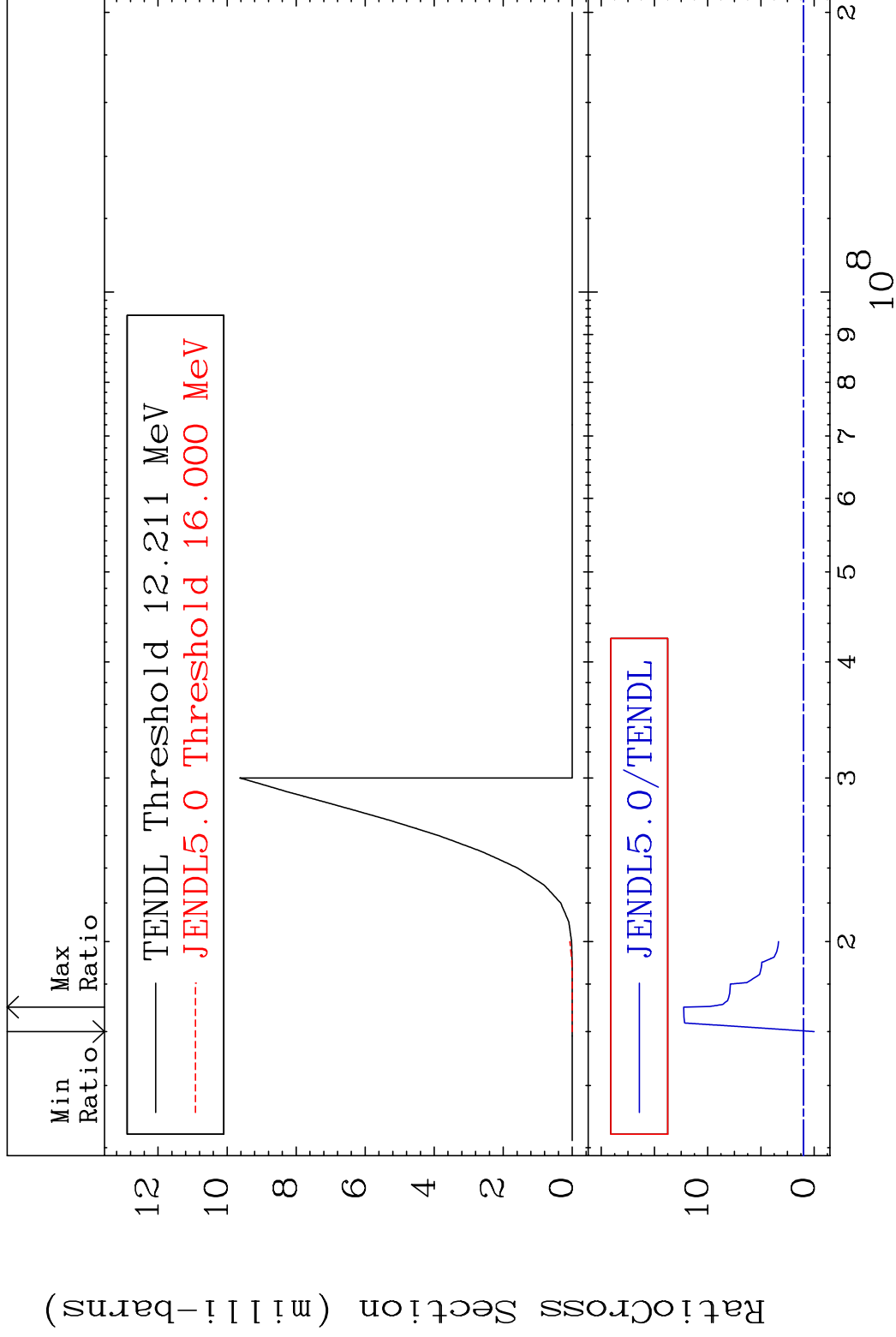


MAT 7231

(n, n') d

72-Hf-176

Cross Section -100.0 To 1126. %

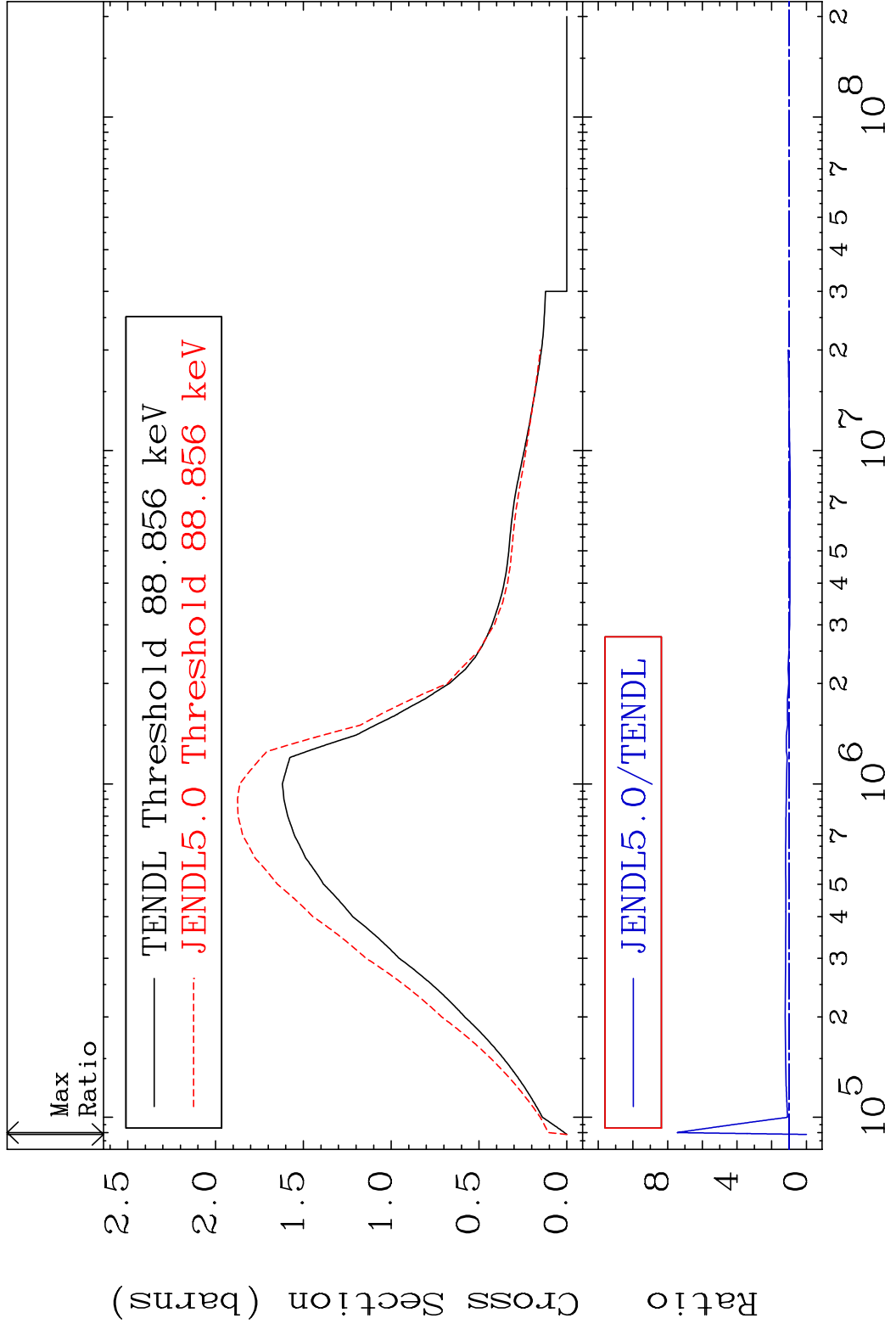


8

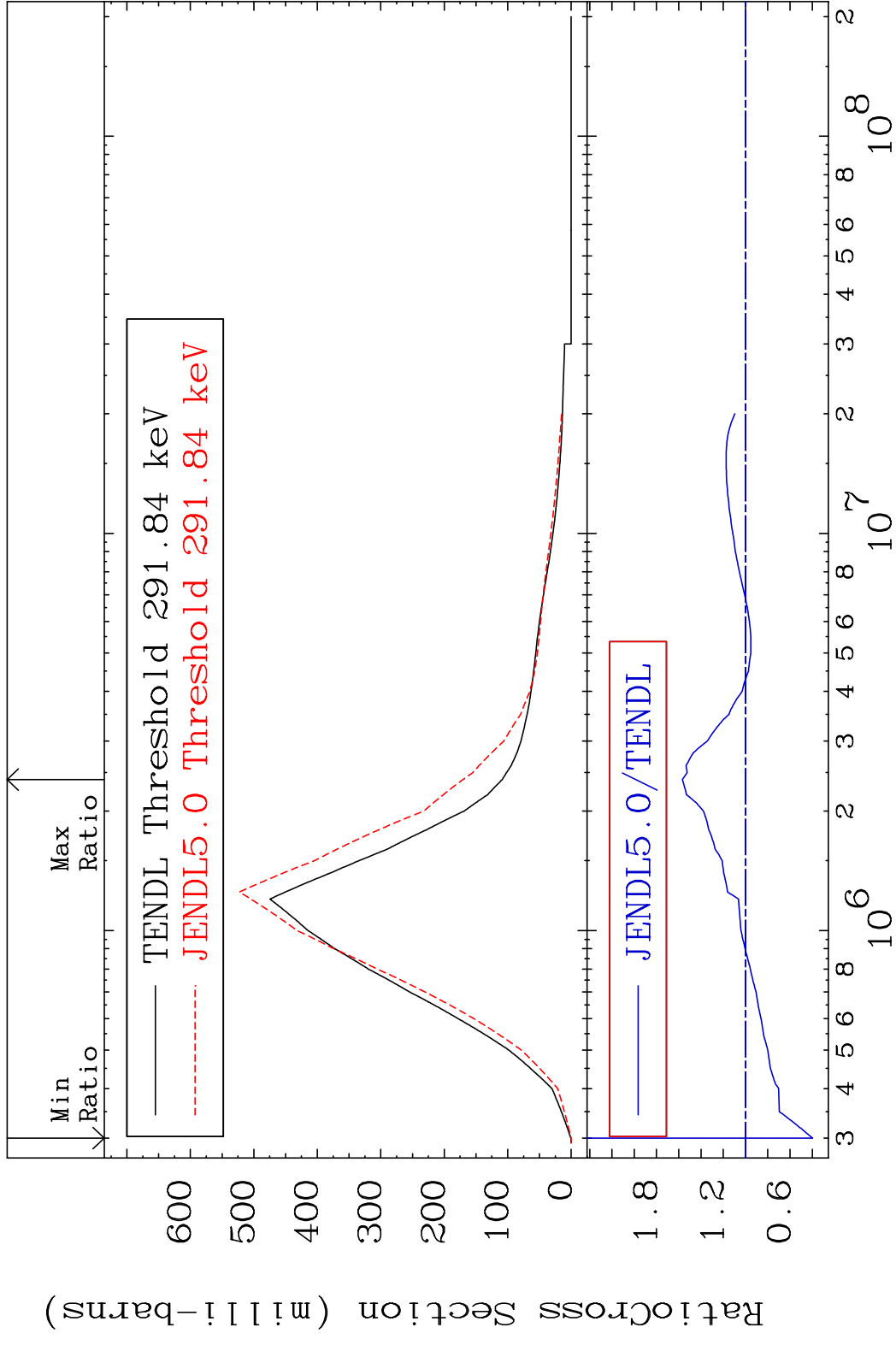
Incident Energy (eV)

72-Hf-176

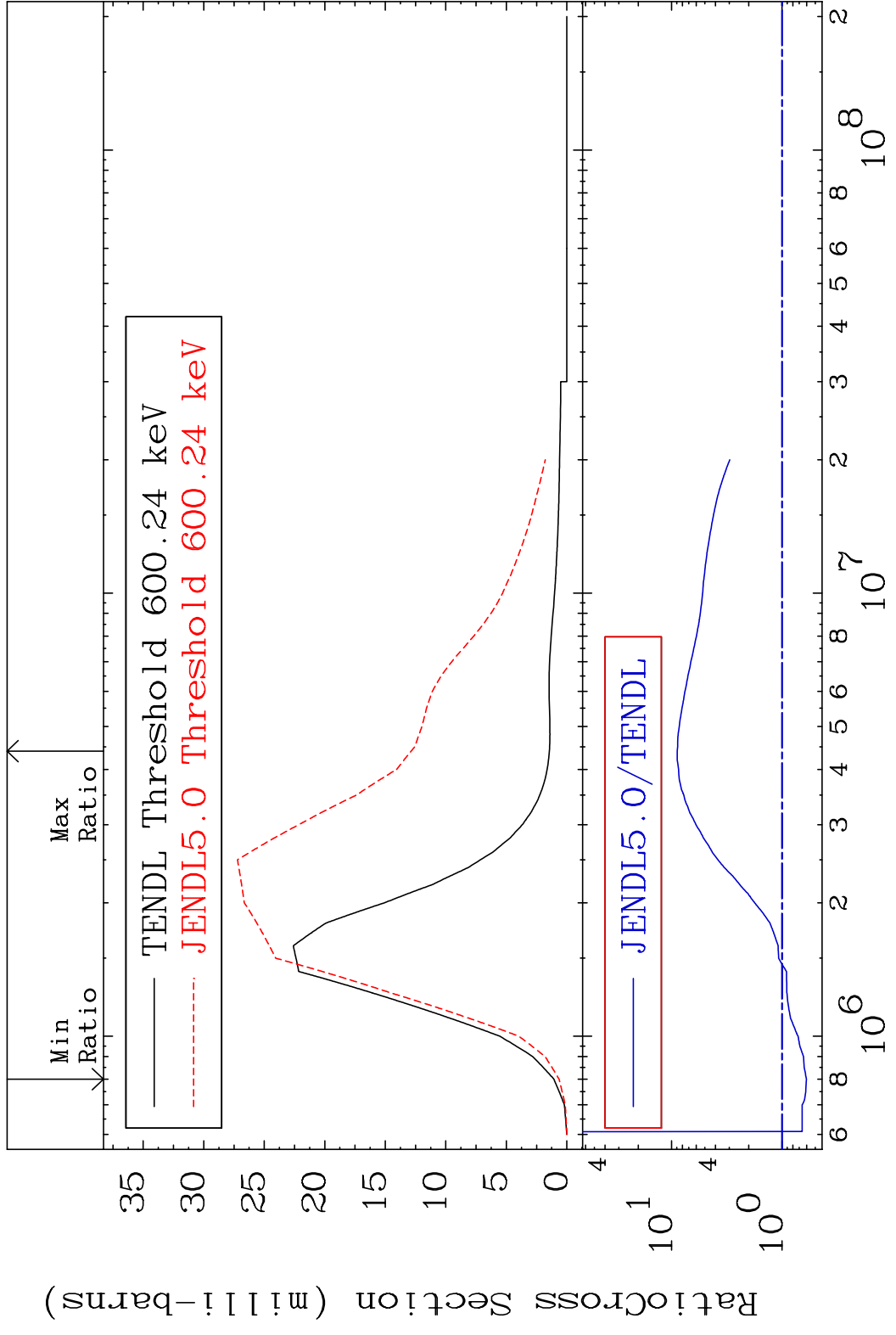
MAT 7231 MT= 51 (n,n') Level 72-Hf-176  
 Cross Section -100.0 To 644.8 %



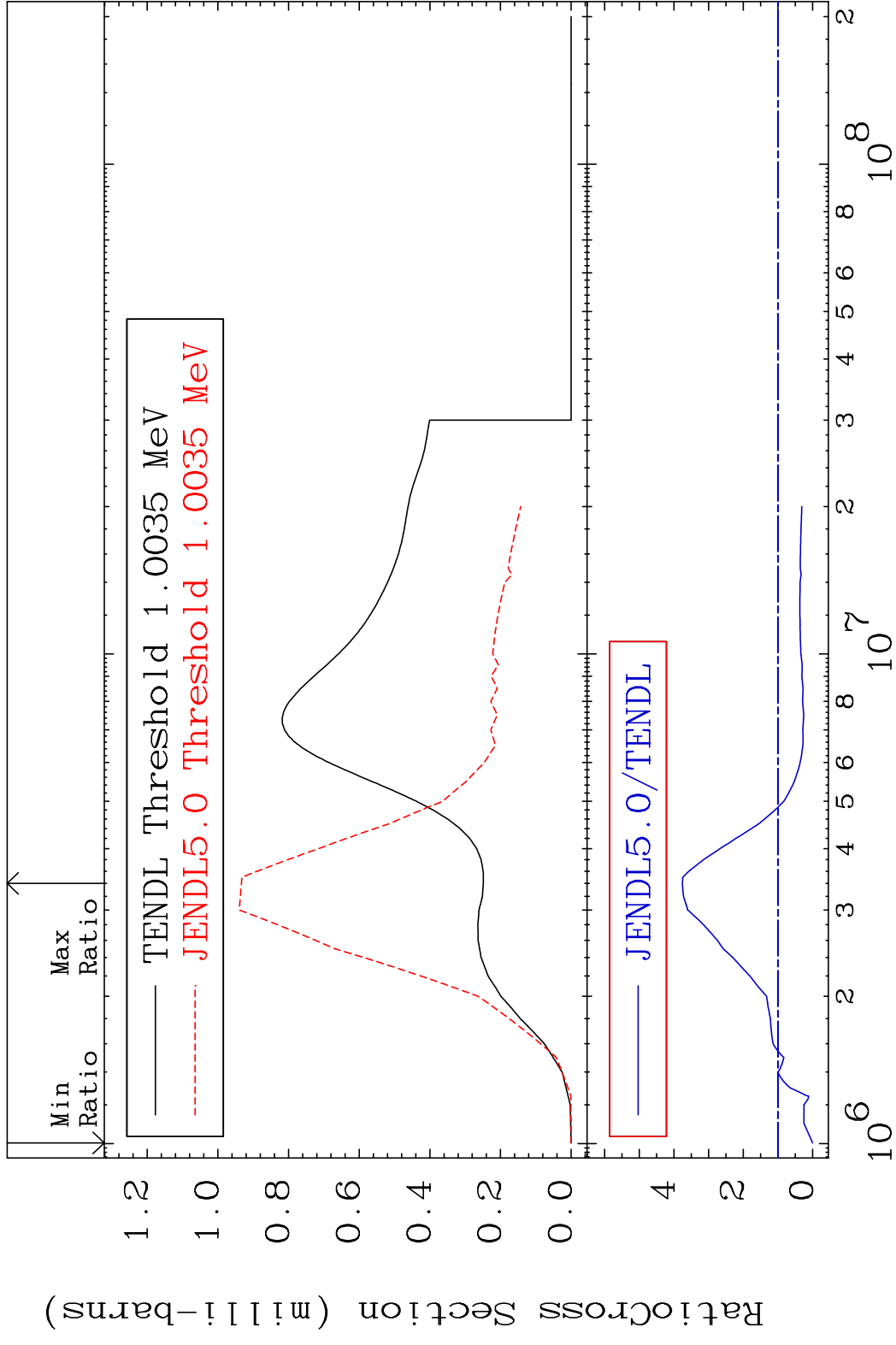
MAT 7231 MT= 52 (n,n') Level 72-Hf-176  
 Cross Section -60.22 To 56.75 %



MAT 7231 MT= 53 (n,n') Level 72-Hf-176  
 Cross Section -39.77 To 790.3 %

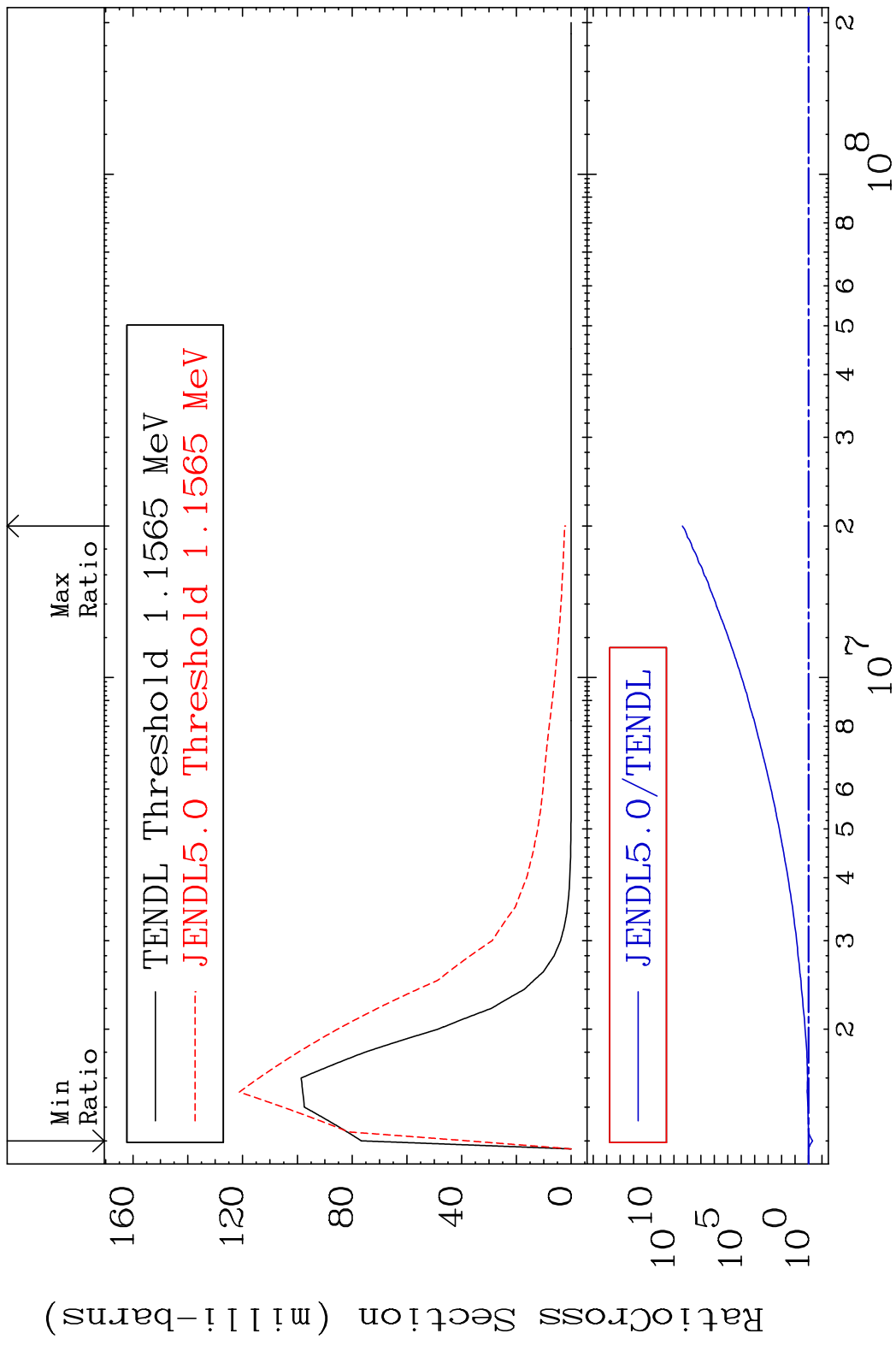


MAT 7231 MT= 54 (n, n') Level 72-Hf-176  
 Cross Section -100.0 To 275.8 %

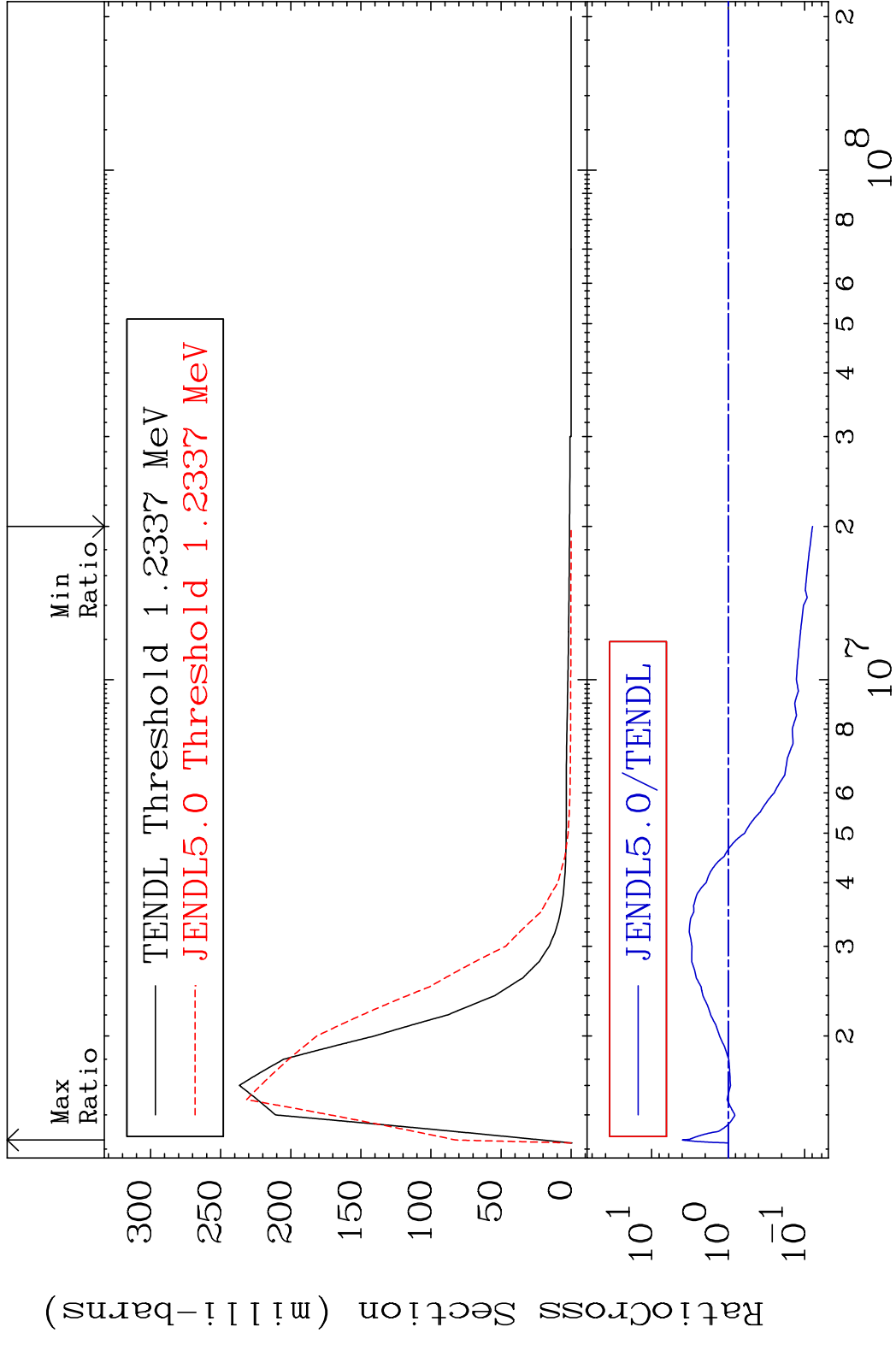


12 72-Hf-176

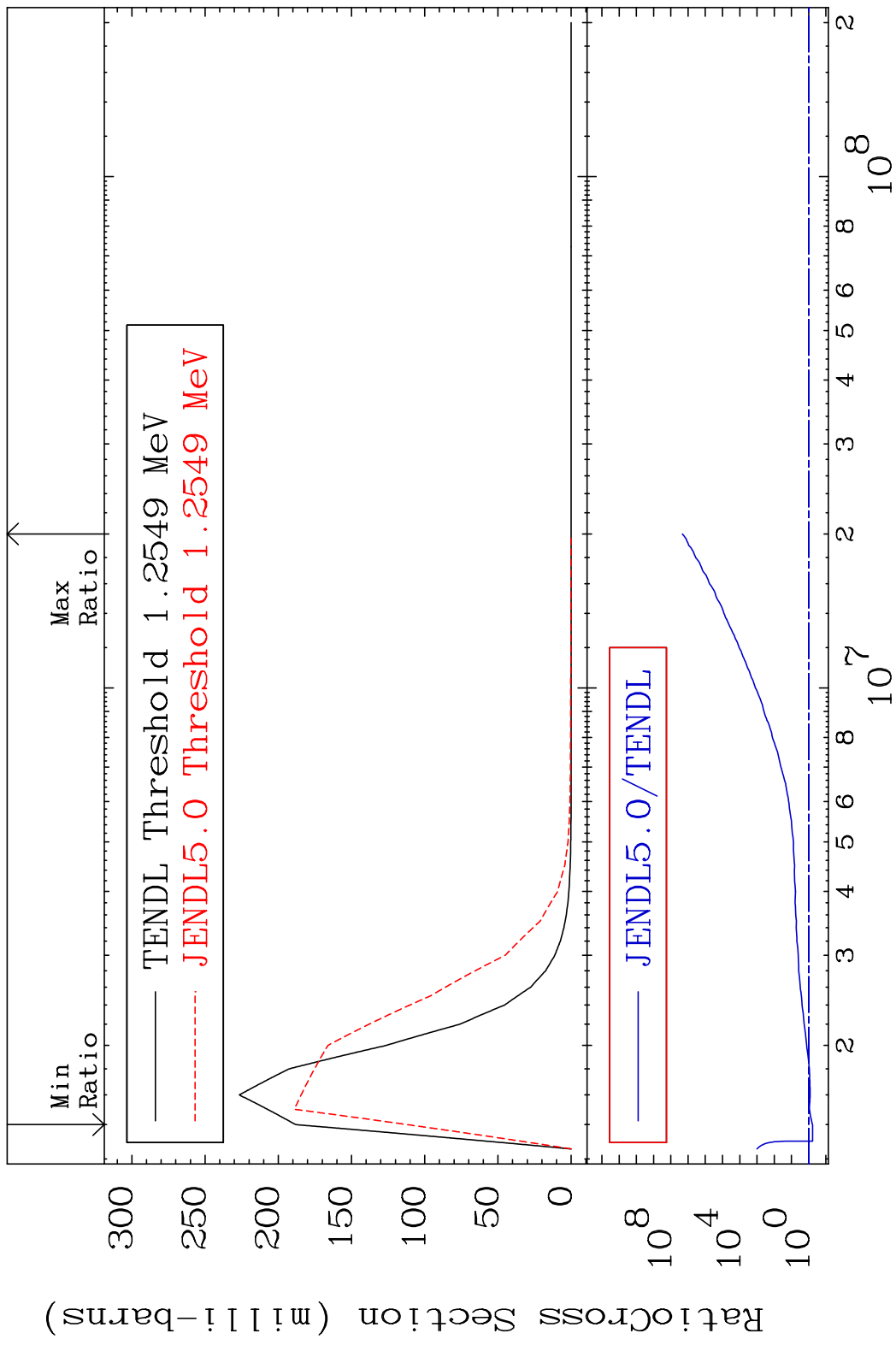
MAT 7231 MT= 55 (n, n') Level 72-Hf-176  
 Cross Section -50.65 To 9999. %



MAT 7231 MT= 56 (n, n') Level 72-Hf-176  
 Cross Section -92.10 To 297.4 %

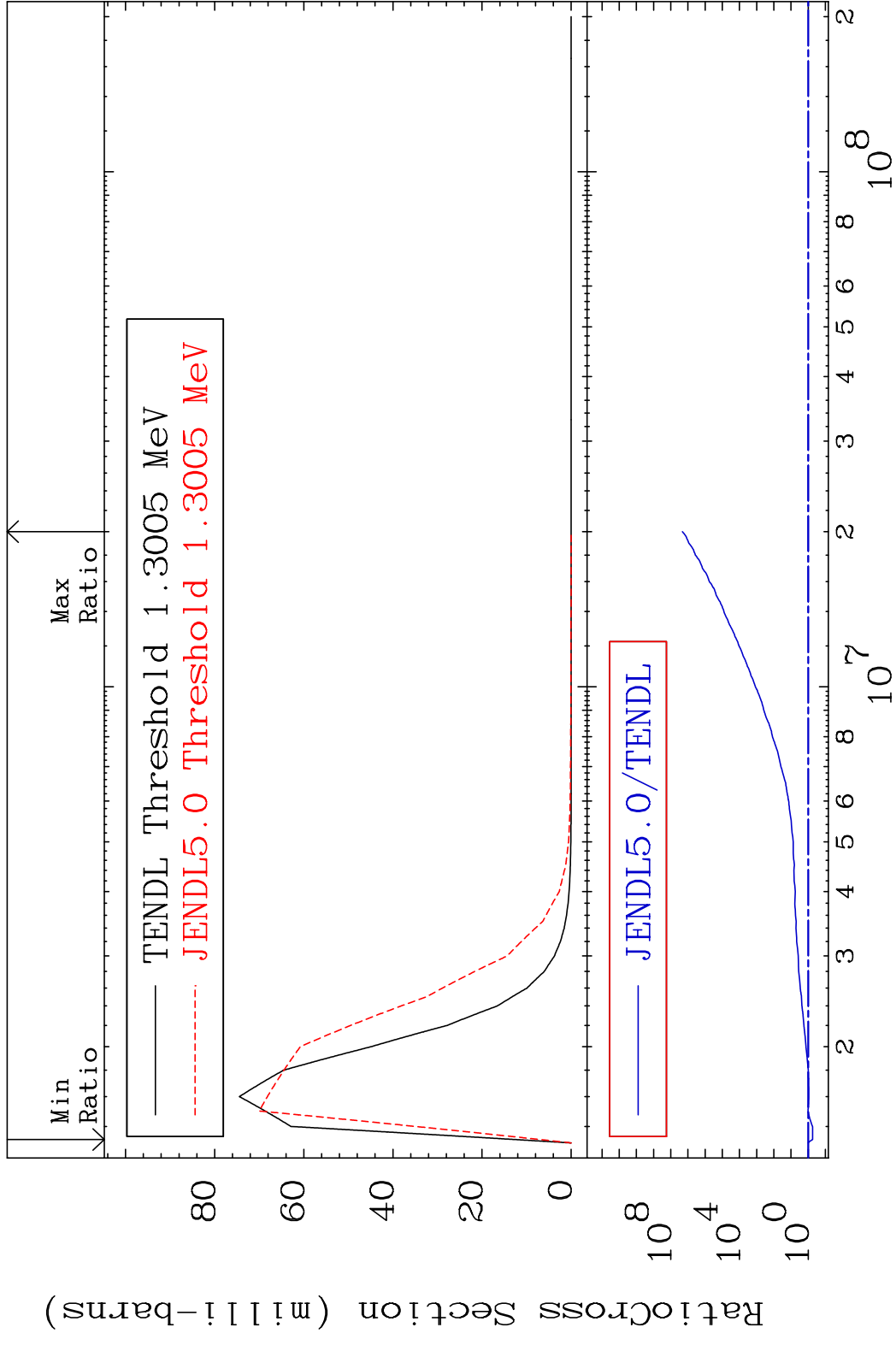


MAT 7231 MT= 57 (n, n') Level 72-Hf-176  
 Cross Section -40.54 To 9999. %

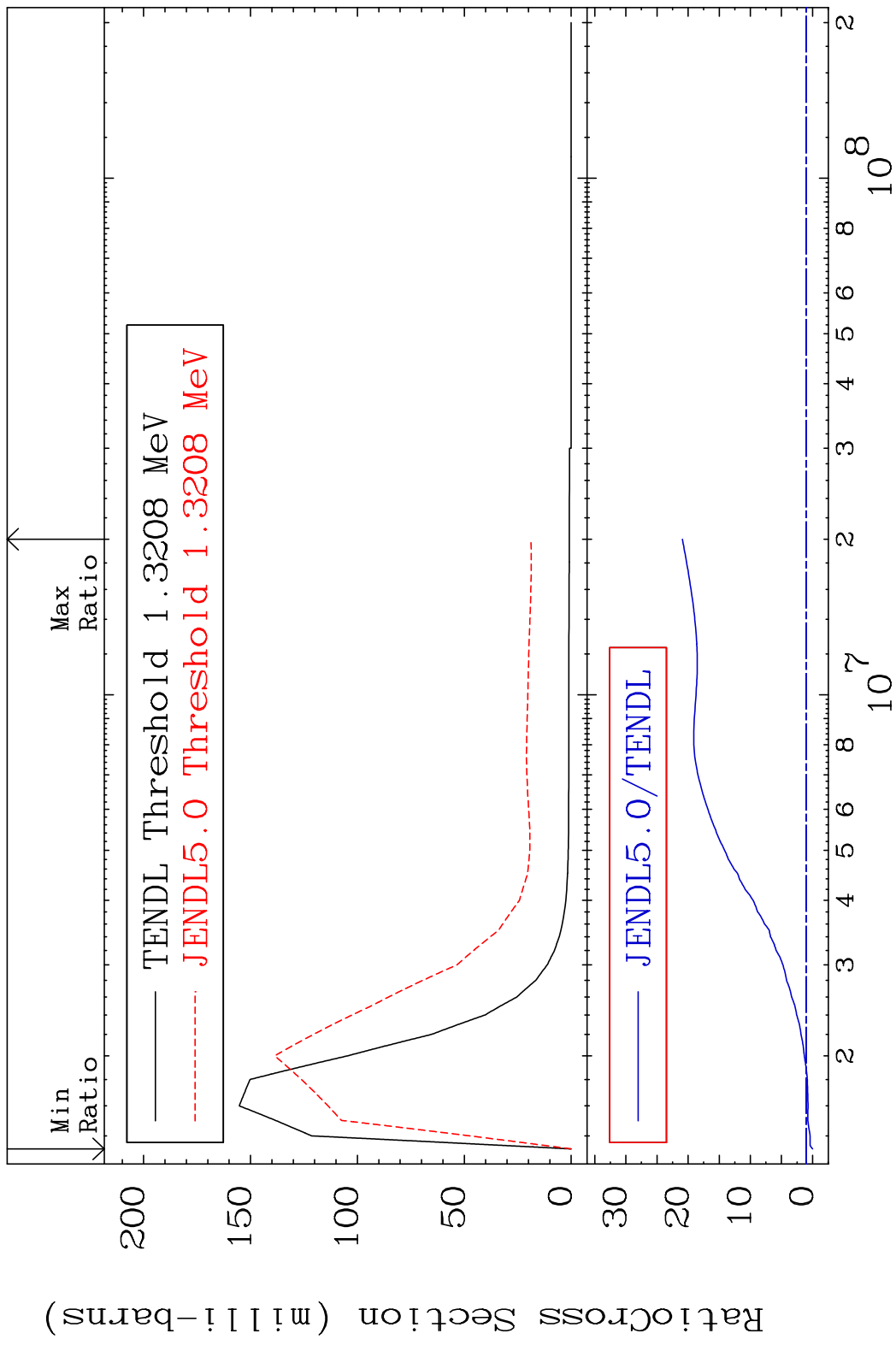




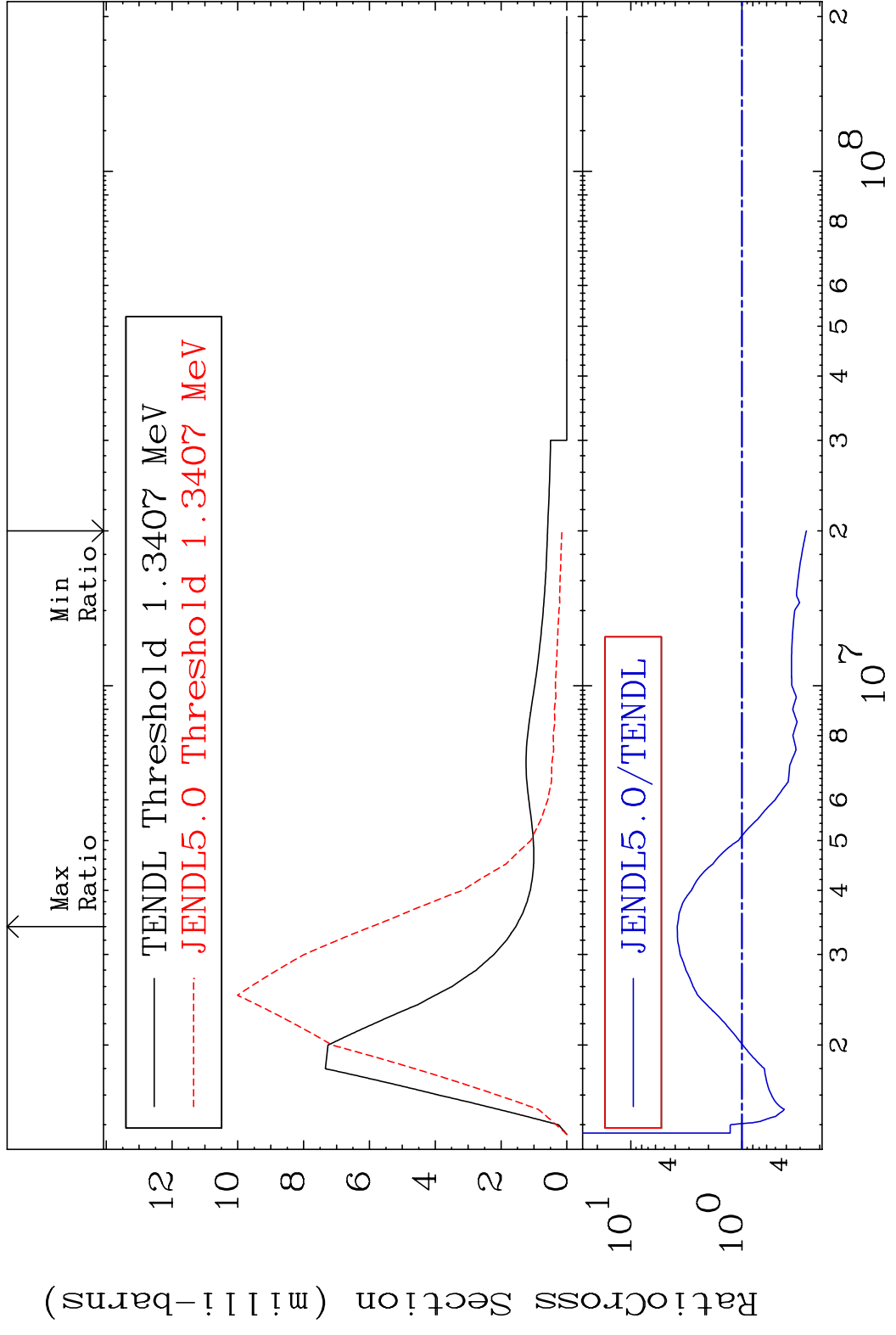
MAT 7231 MT= 58 (n, n') Level 72-Hf-176  
 Cross Section -44.49 To 9999. %



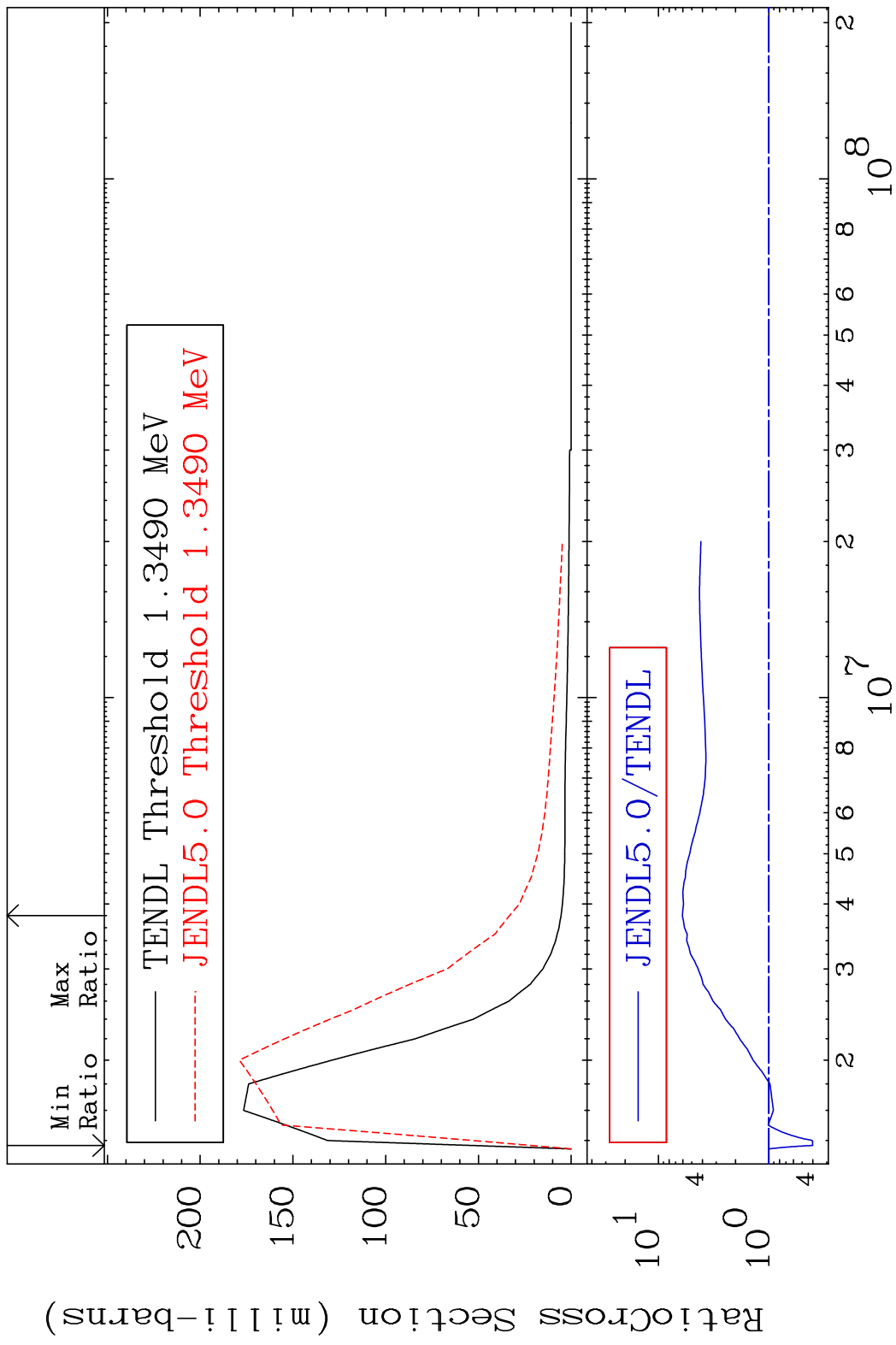
MAT 7231 MT= 59 (n, n') Level 72-Hf-176  
 Cross Section -100.0 To 1993. %



MAT 7231 MT= 60 (n, n') Level 72-Hf-176  
 Cross Section -73.64 To 283.1 %



MAT 7231 MT= 61 (n, n') Level 72-Hf-176  
 Cross Section -59.76 To 506.7 %

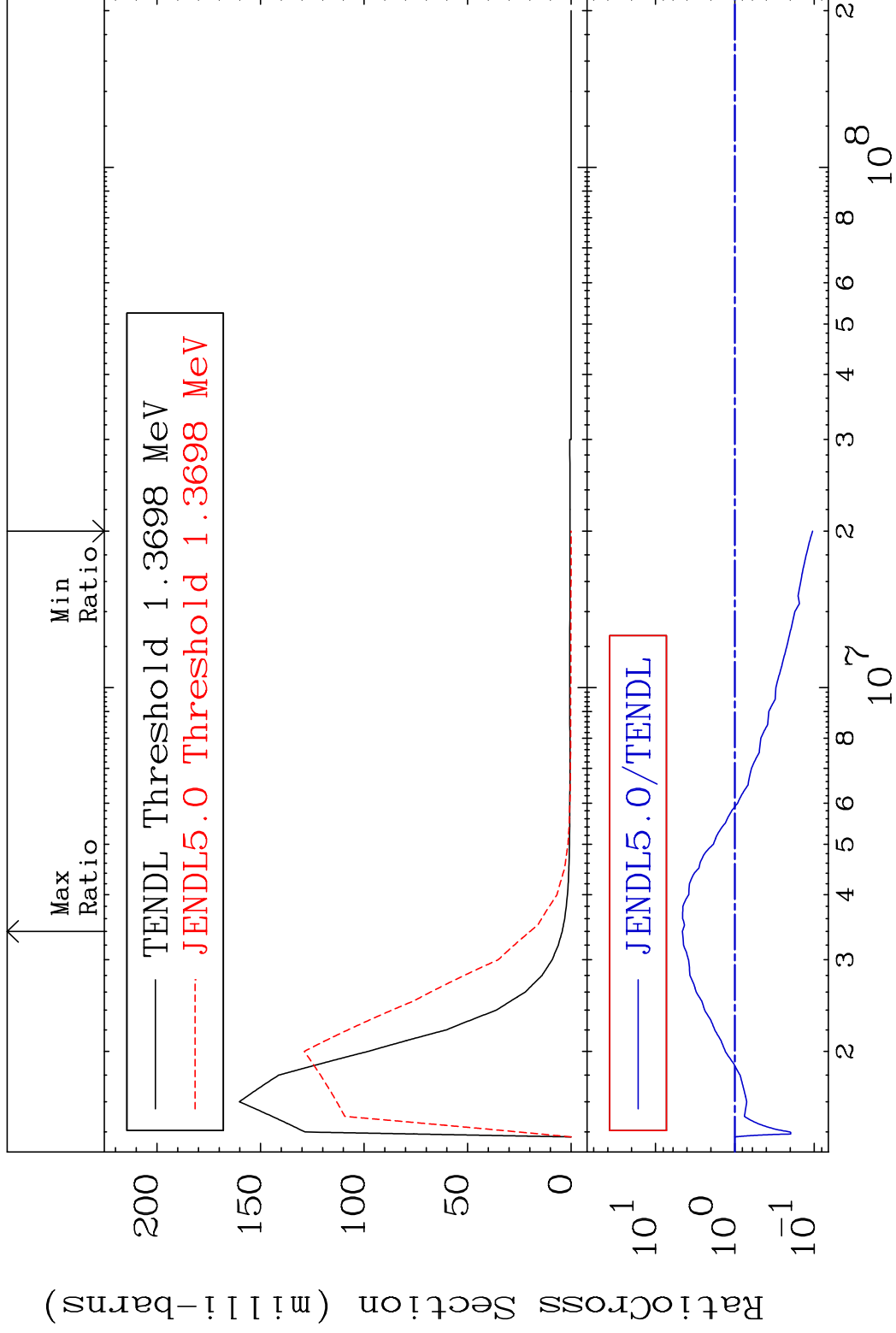


MAT 7231

MT= 62 (n, n') Level

72-Hf-176

Cross Section -89.54 To 358.4 %

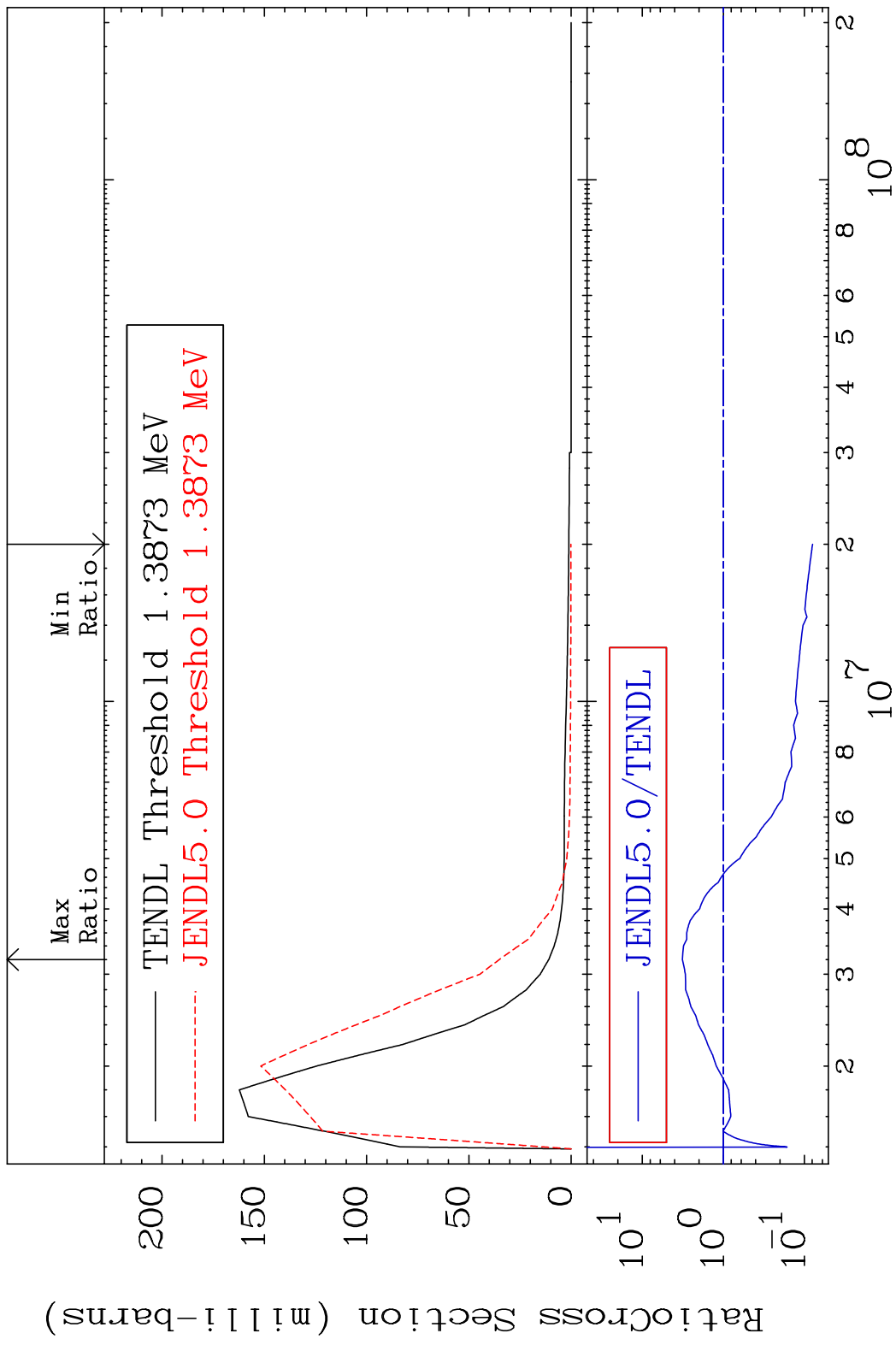


20

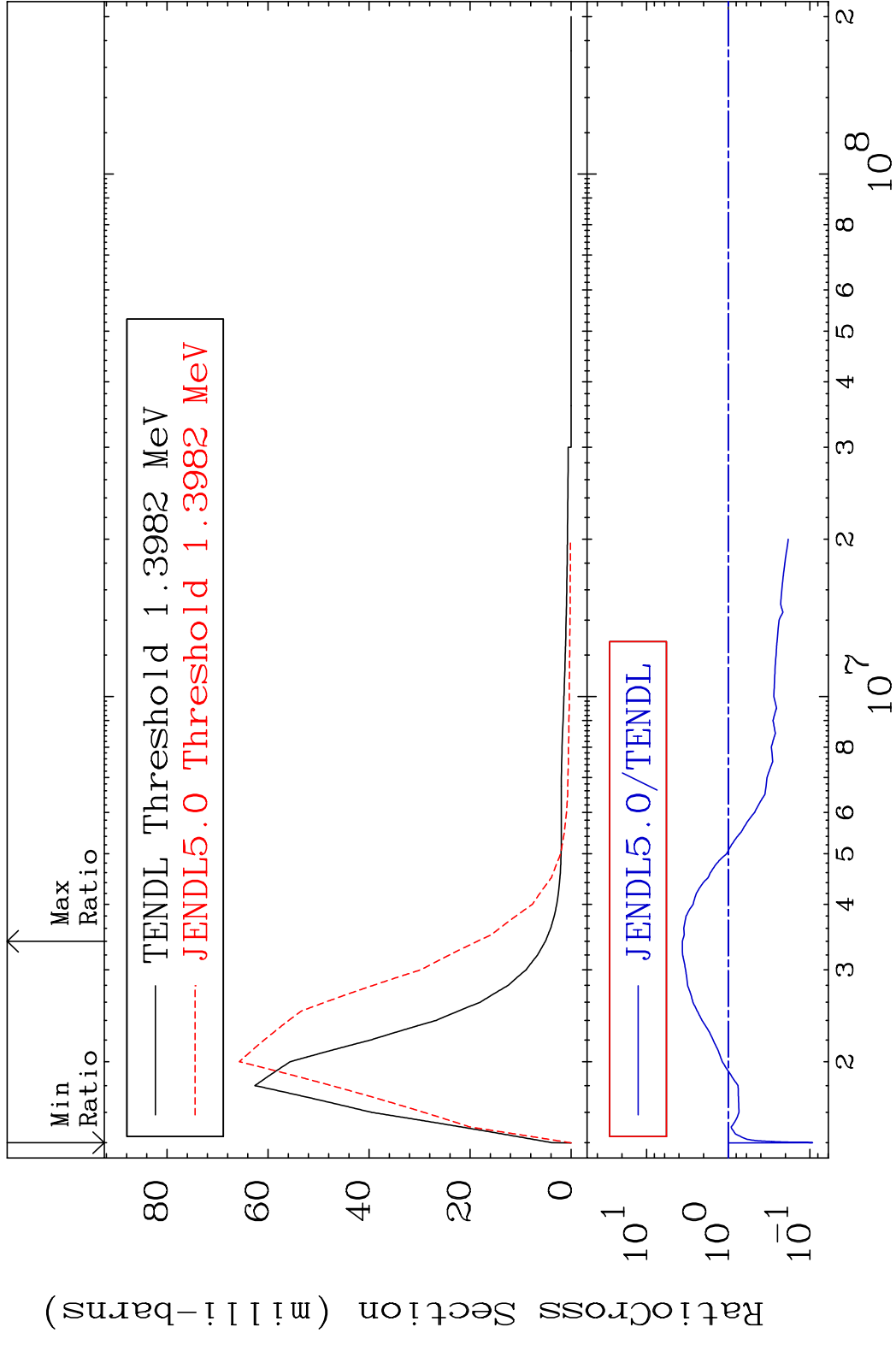
Incident Energy (eV)

72-Hf-176

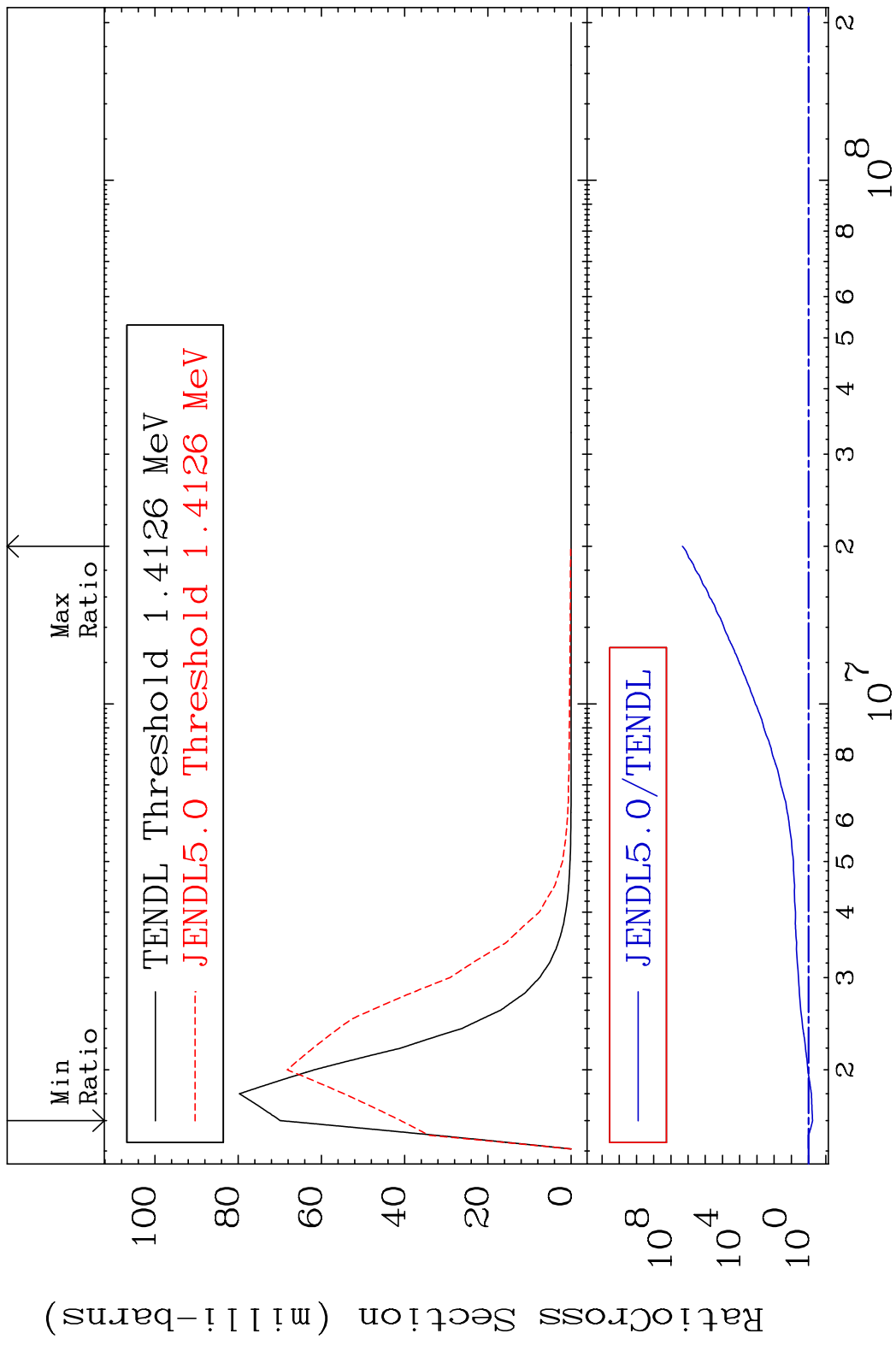
MAT 7231 MT= 63 (n, n') Level 72-Hf-176  
 Cross Section -92.08 To 220.5 %



MAT 7231 MT= 64 (n,n') Level 72-Hf-176  
 Cross Section -90.70 To 264.3 %

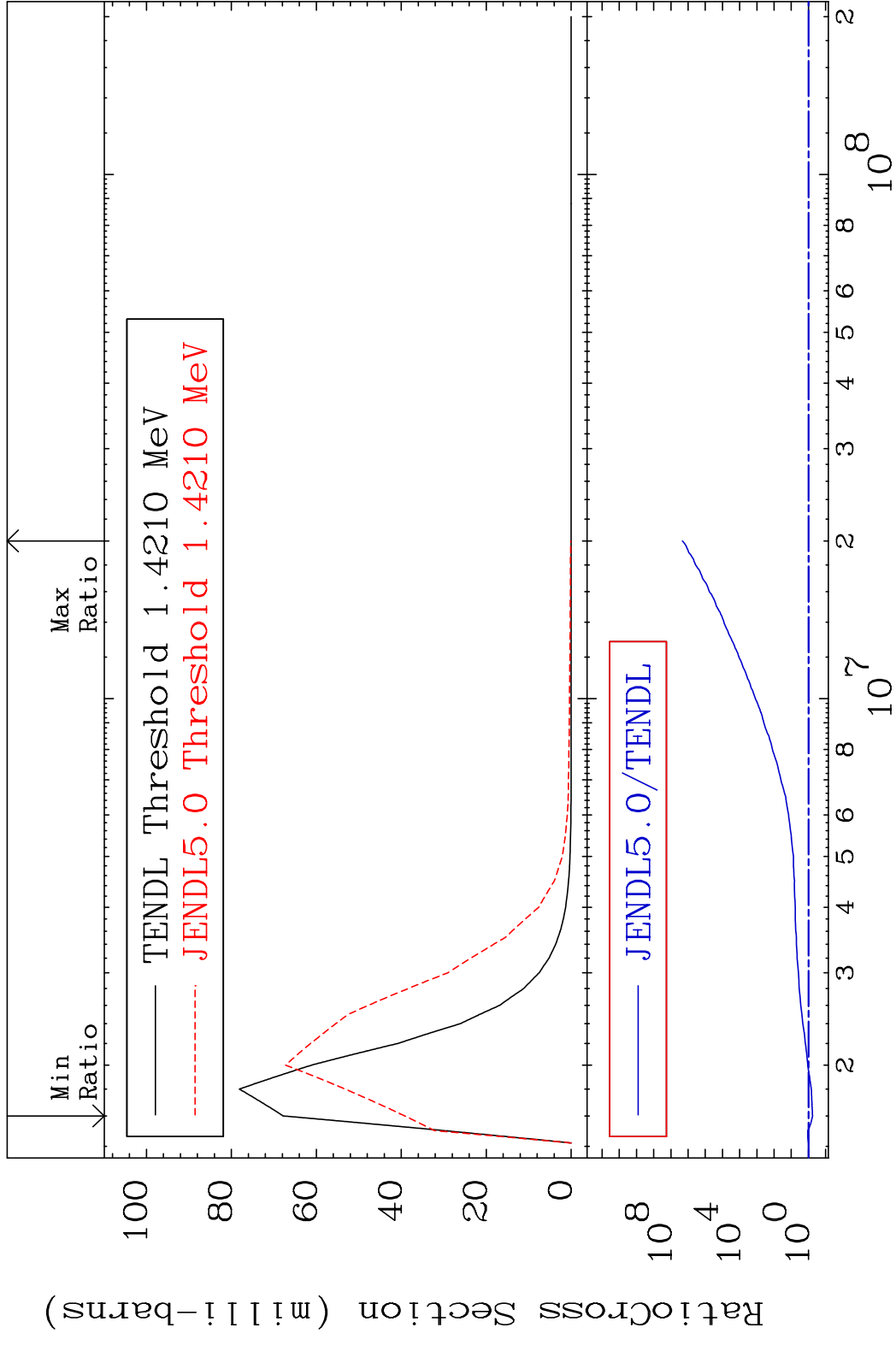


MAT 7231 MT= 65 (n, n') Level 72-Hf-176  
 Cross Section -41.38 To 9999. %

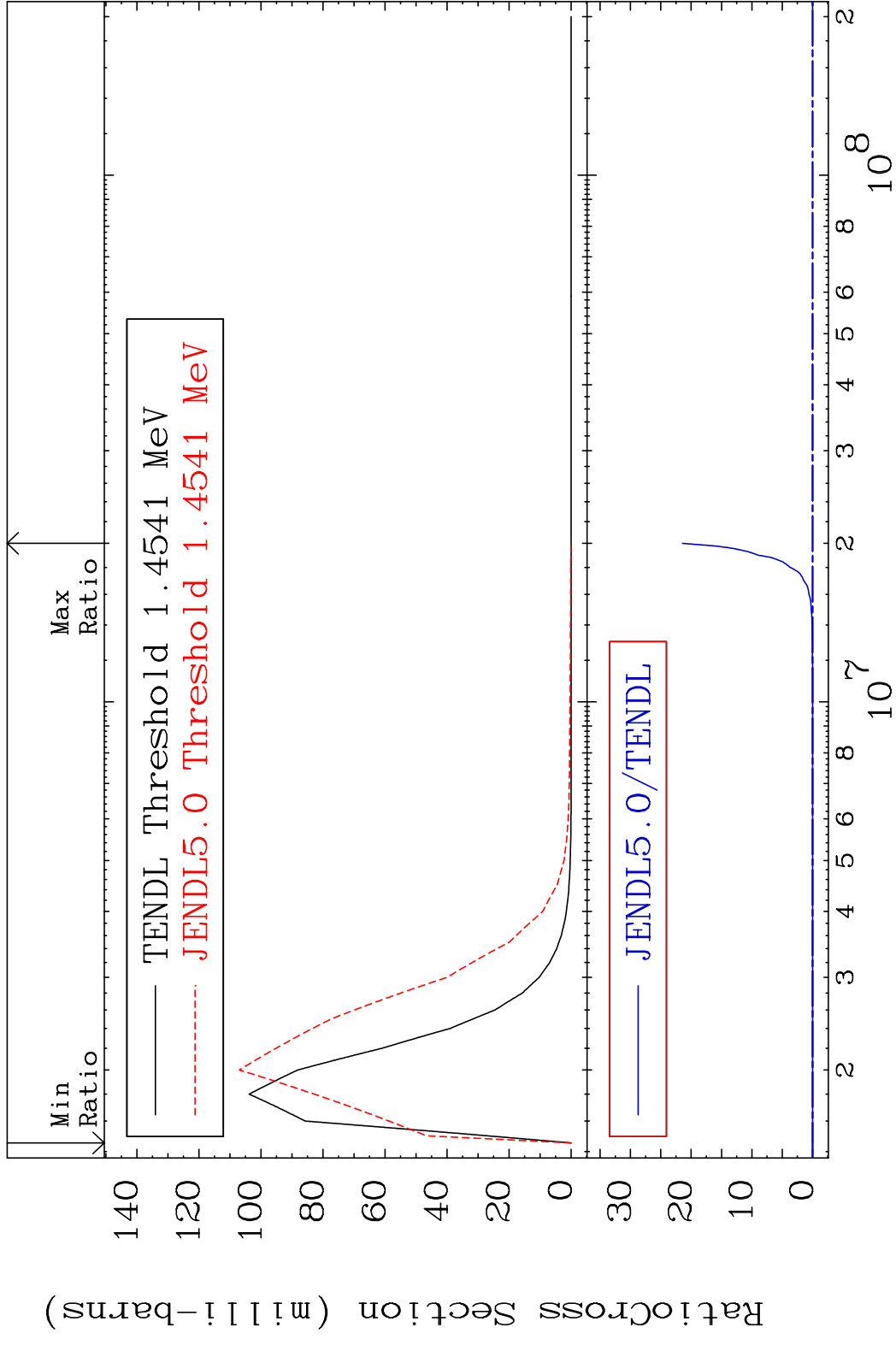




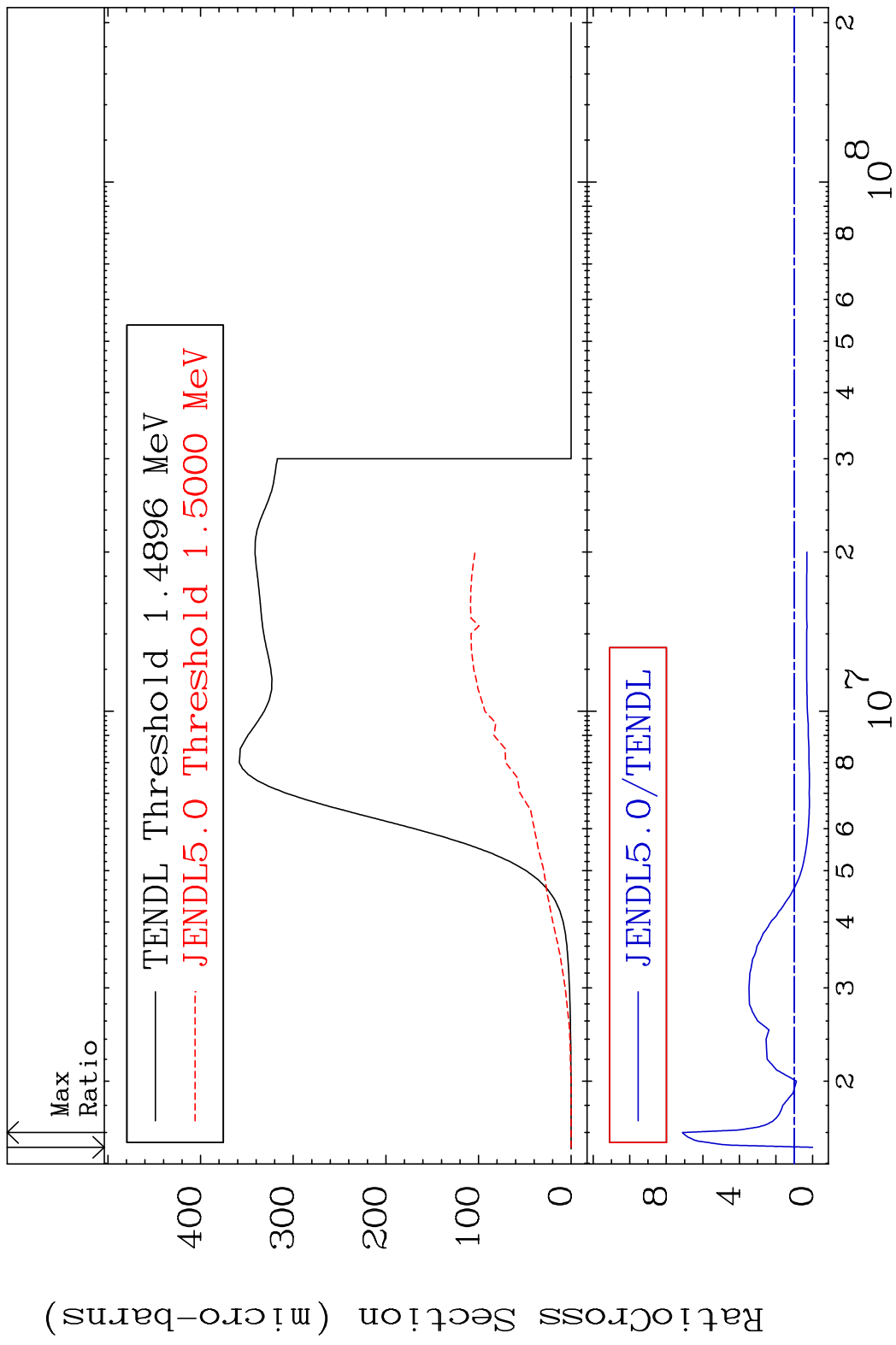
MAT 7231 MT= 66 (n, n') Level 72-Hf-176  
 Cross Section -42.21 To 9999. %



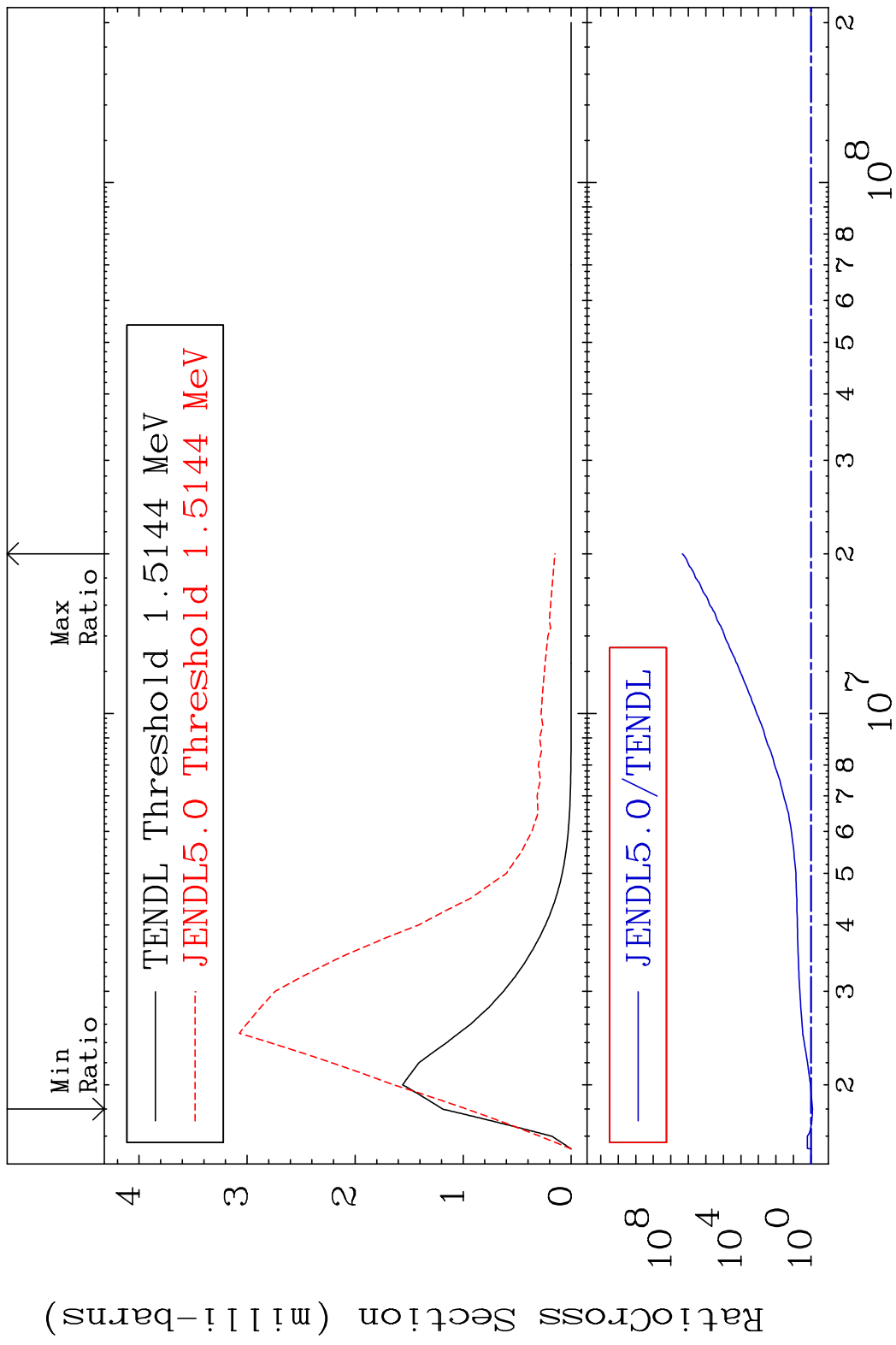
MAT 7231 MT= 67 (n, n') Level 72-Hf-176  
 Cross Section -100.0 To 9999. %



MAT 7231 MT= 68 (n, n') Level 72-Hf-176  
 Cross Section -100.0 To 612.2 %



MAT 7231 MT= 69 (n, n') Level 72-Hf-176  
 Cross Section -18.74 To 9999. %

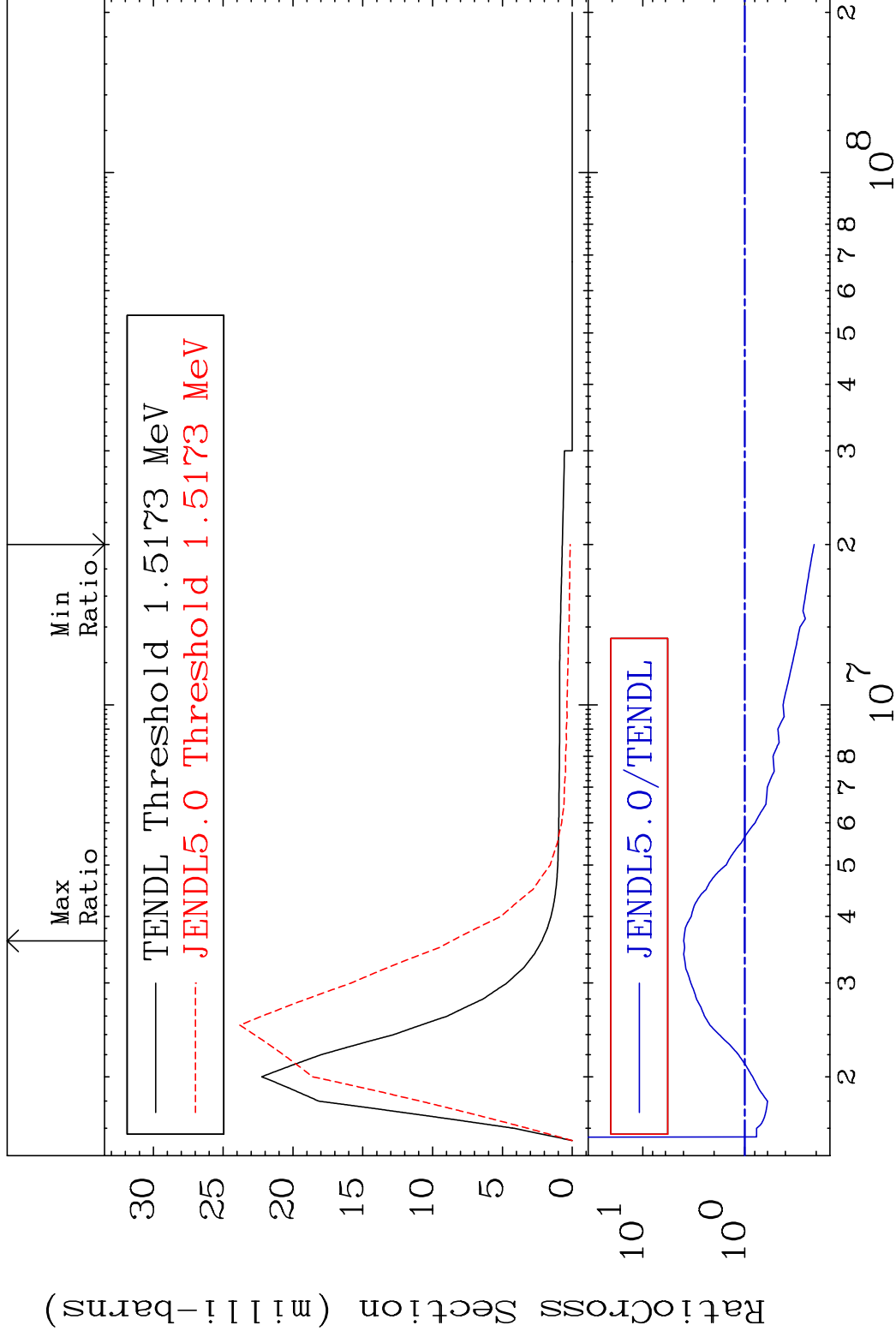


MAT 7231

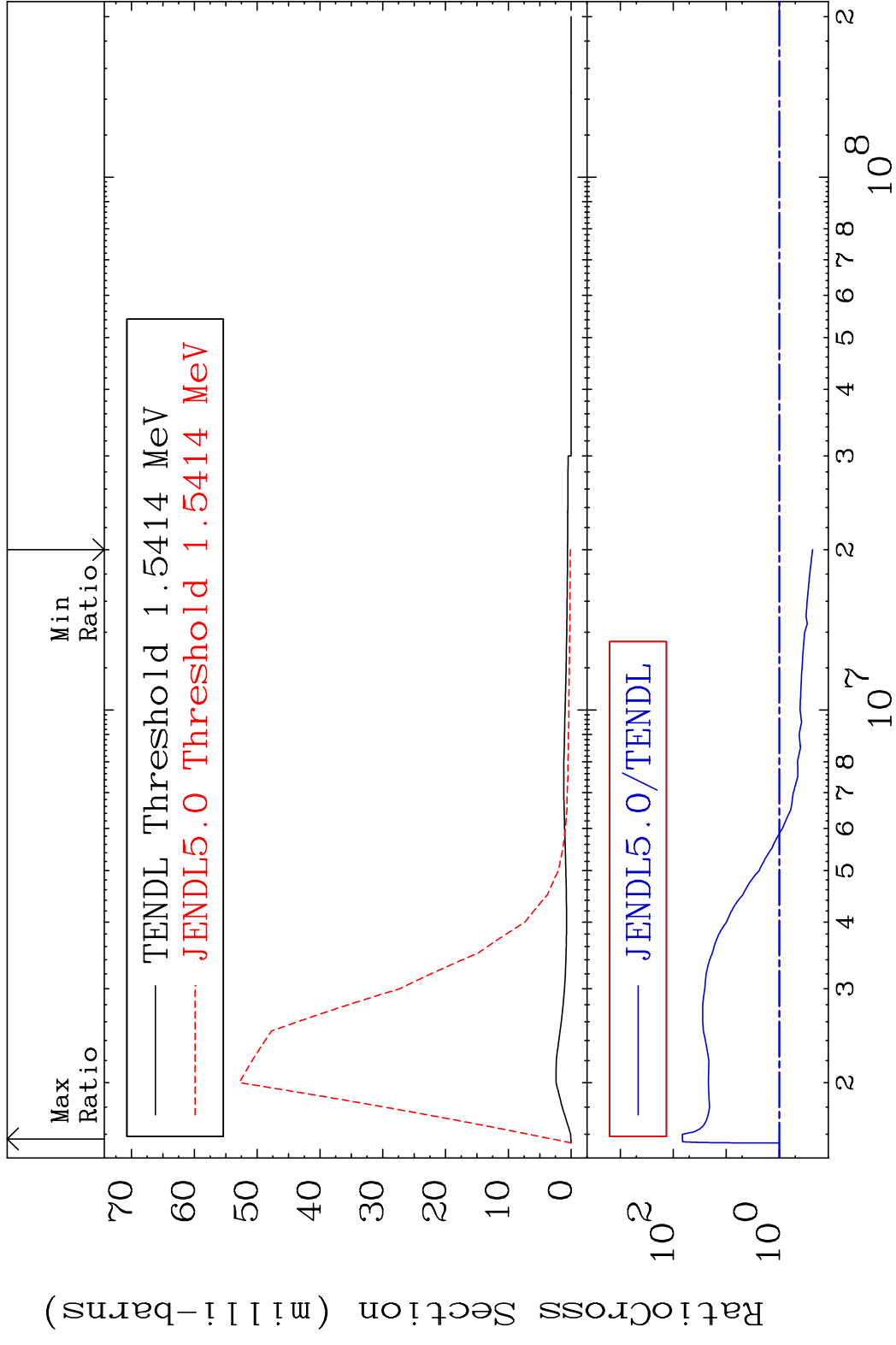
MT= 70 (n, n') Level

72-Hf-176

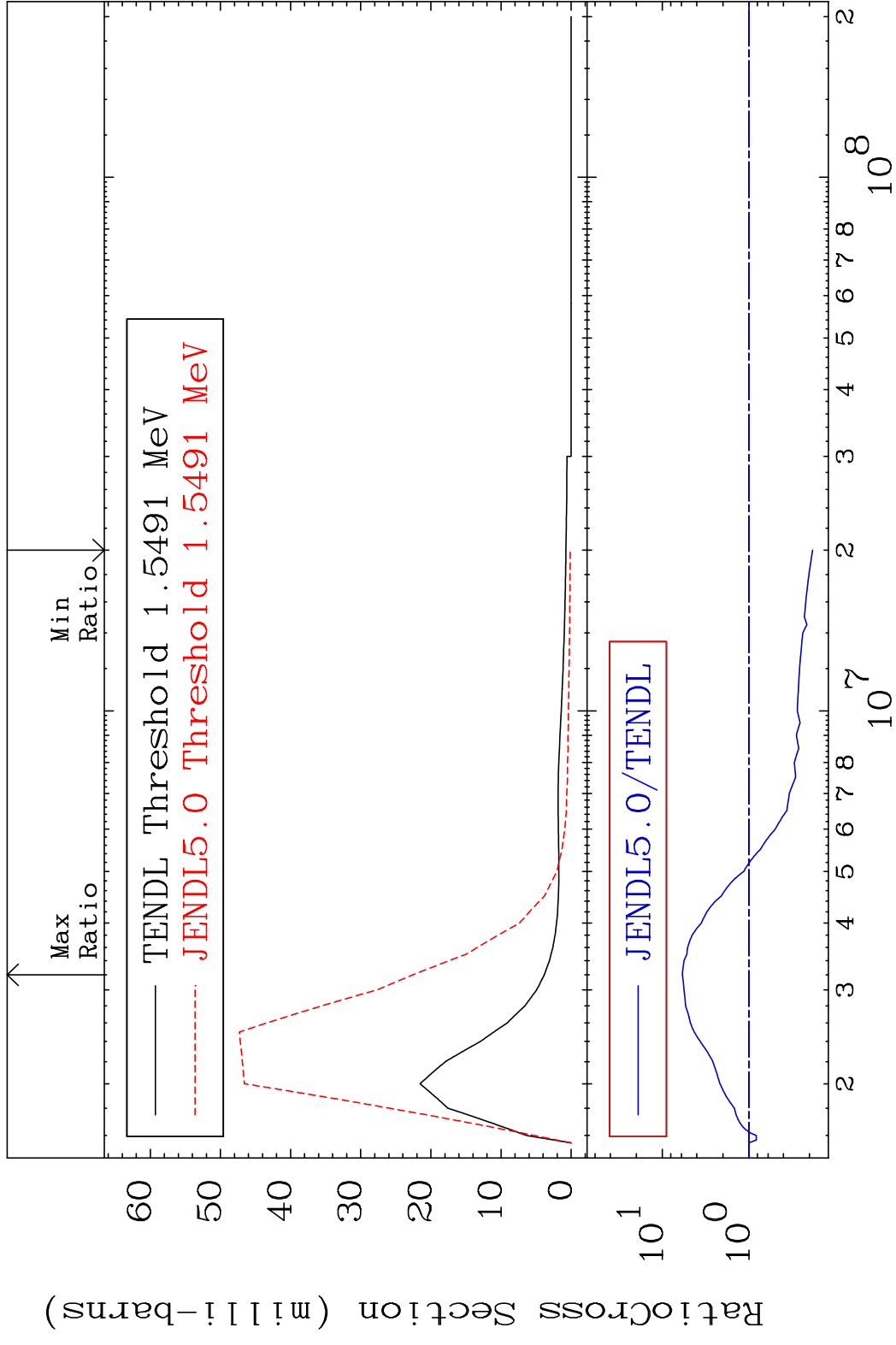
Cross Section -79.08 To 297.7 %



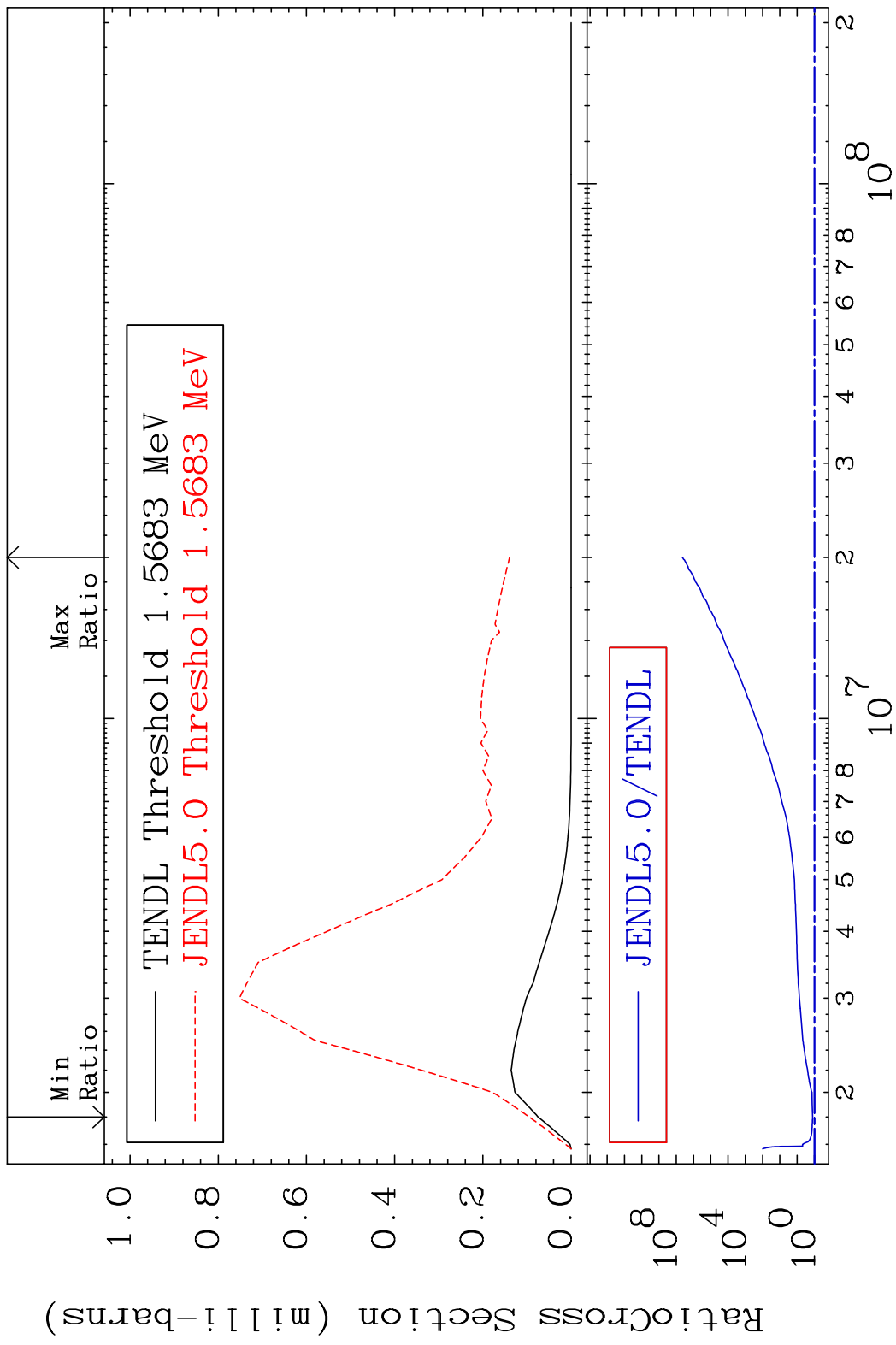
MAT 7231 MT= 71 (n,n') Level 72-Hf-176  
 Cross Section -76.47 To 6647. %



MAT 7231 MT= 72 (n,n') Level 72-Hf-176  
 Cross Section -81.57 To 487.8 %

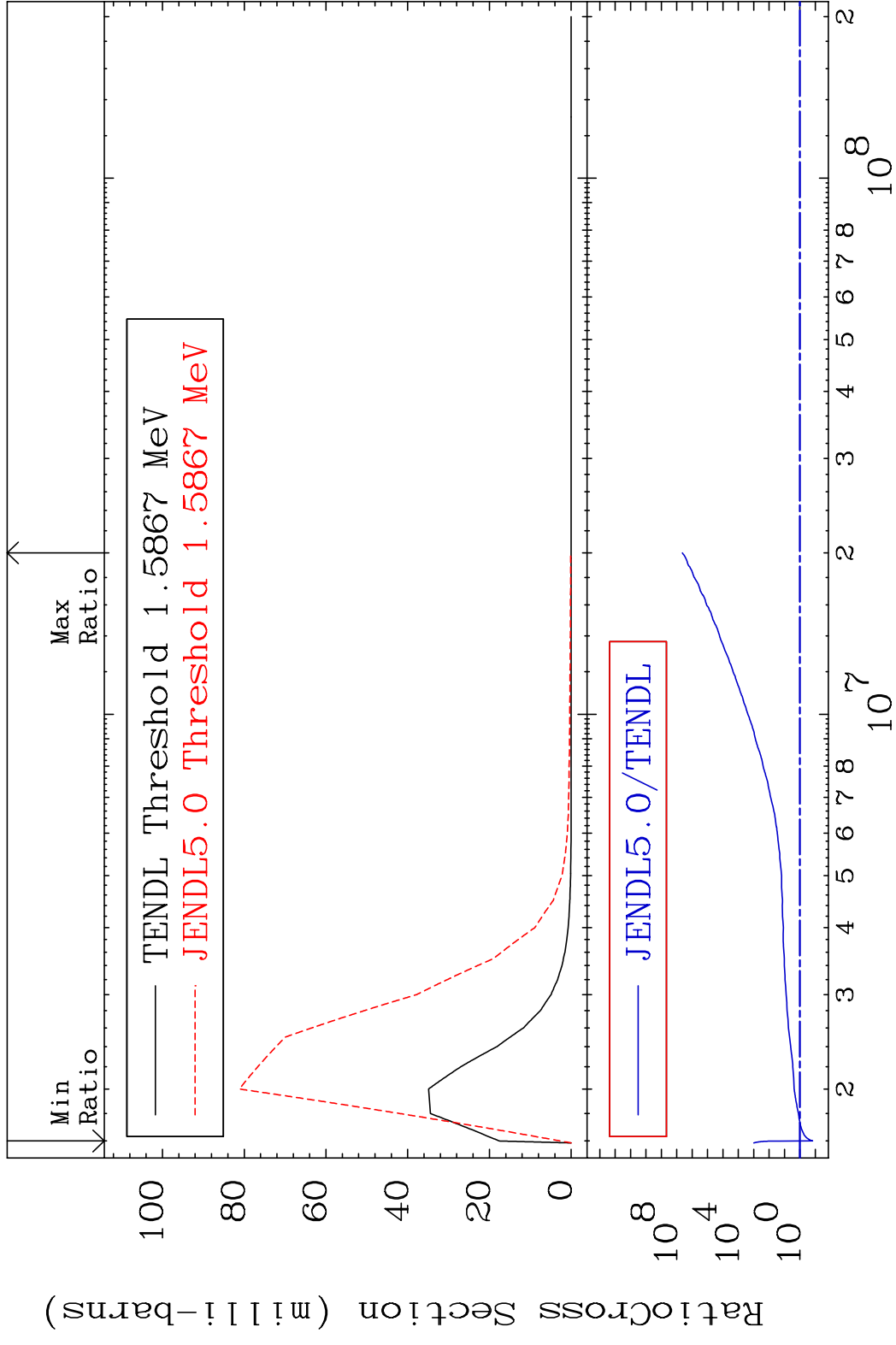


MAT 7231 MT= 73 (n, n') Level 72-Hf-176  
 Cross Section 26.98 To 9999. %

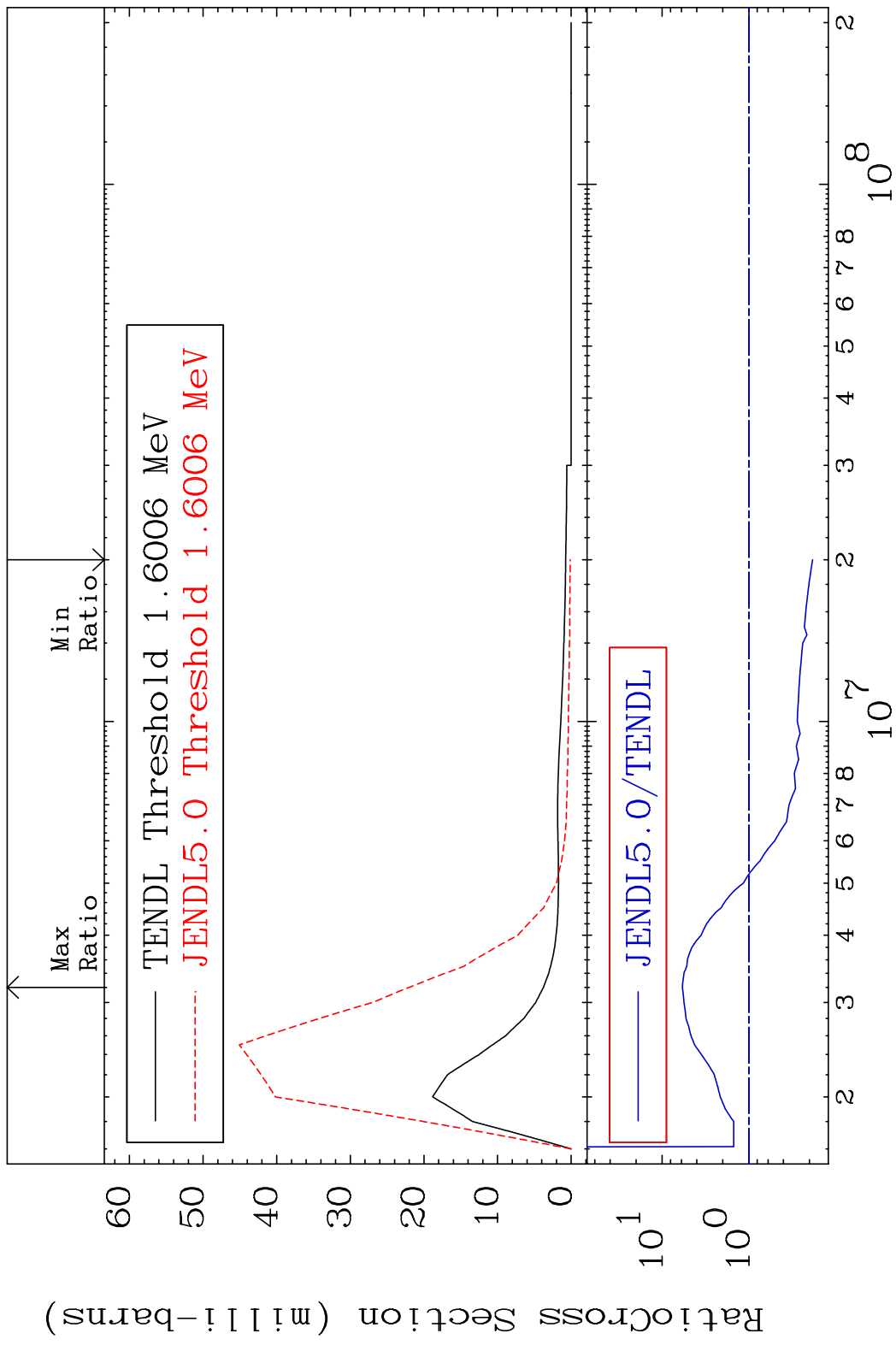




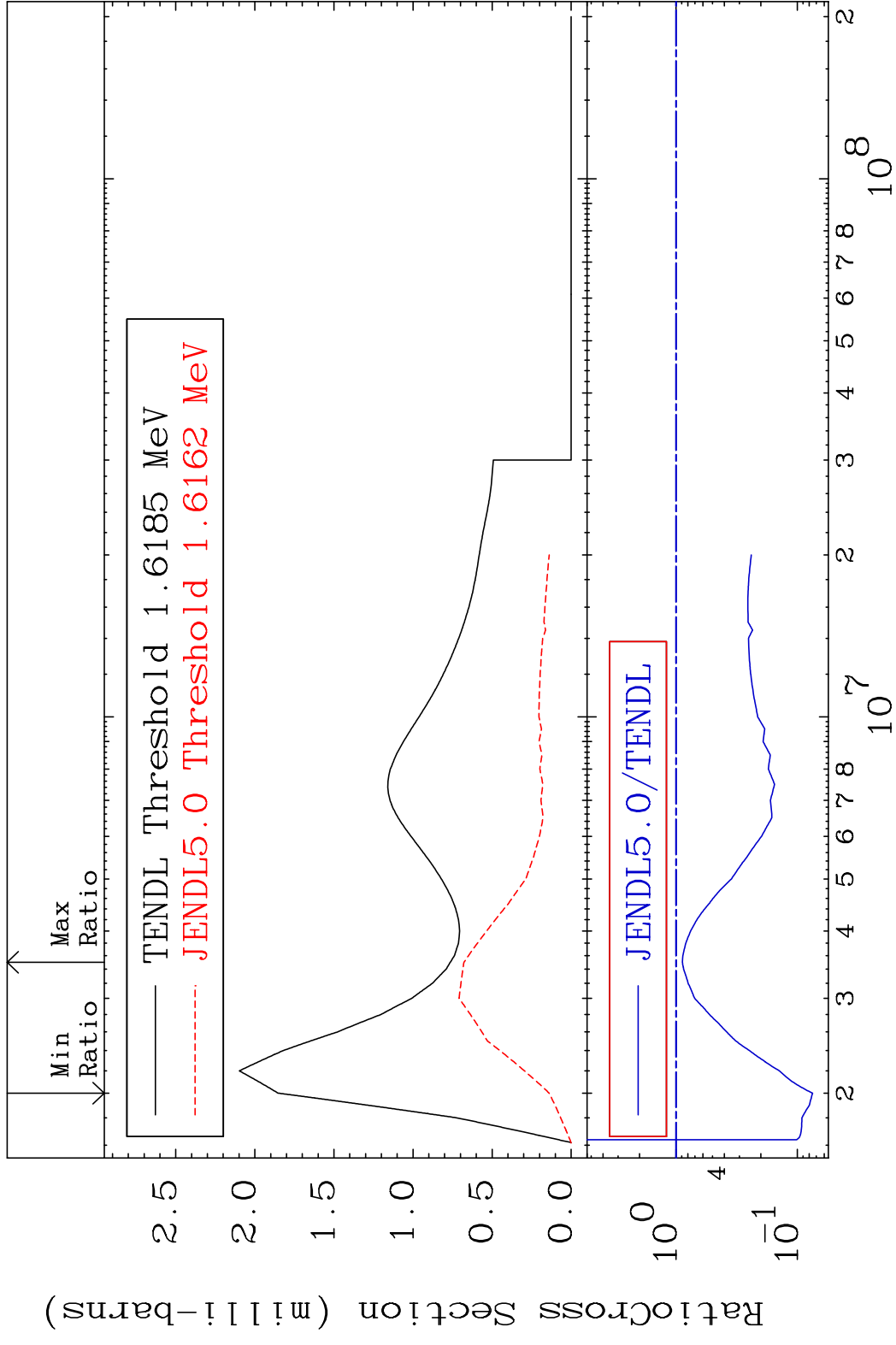
MAT 7231 MT= 74 (n, n') Level 72-Hf-176  
 Cross Section -85.07 To 9999. %



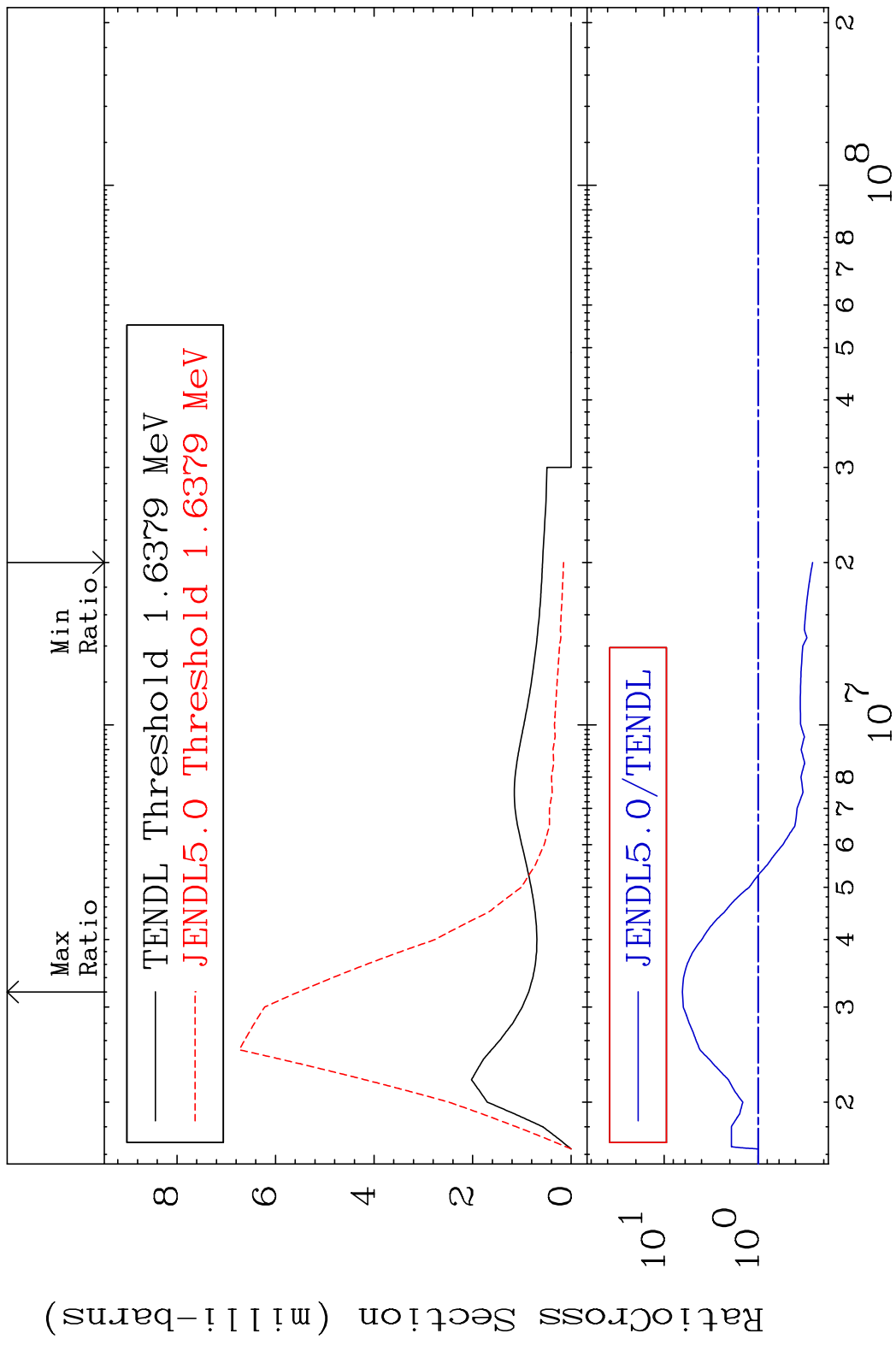
MAT 7231 MT= 75 (n,n') Level 72-Hf-176  
 Cross Section -81.57 To 485.3 %



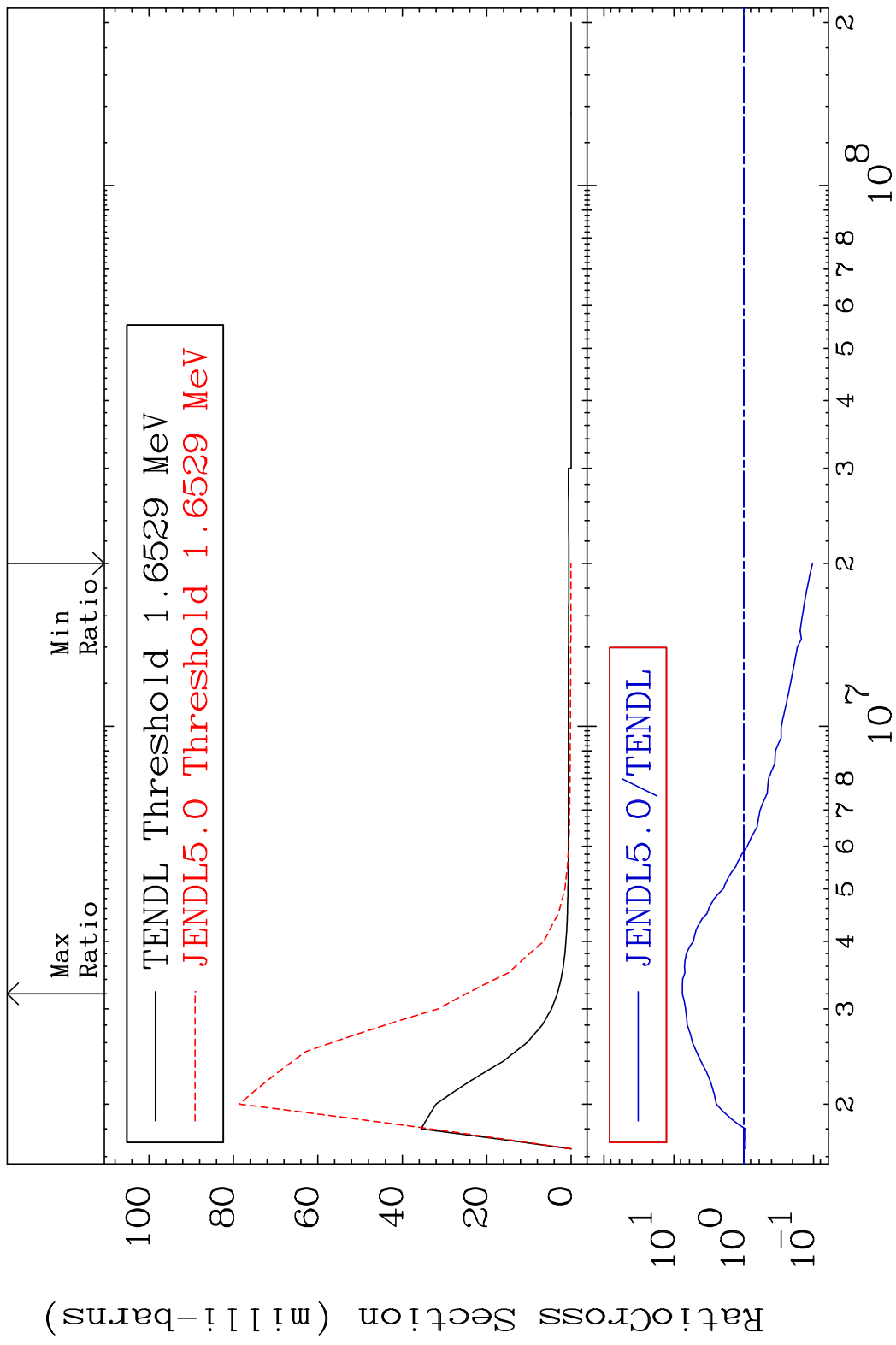
MAT 7231 MT= 76 (n,n') Level 72-Hf-176  
 Cross Section -92.50 To -11.24%



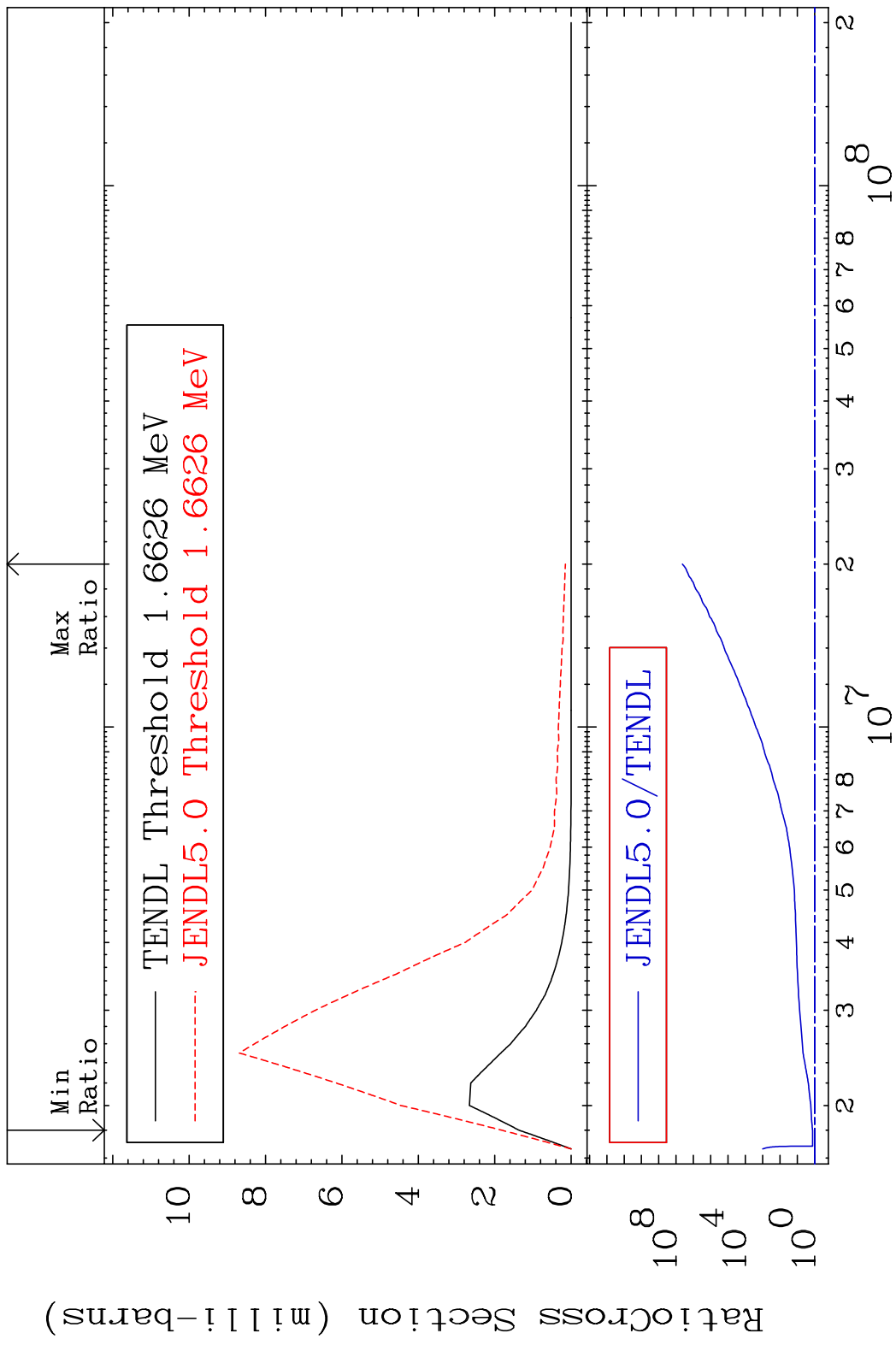
MAT 7231 MT= 77 (n, n') Level 72-Hf-176  
 Cross Section -73.63 To 540.7 %



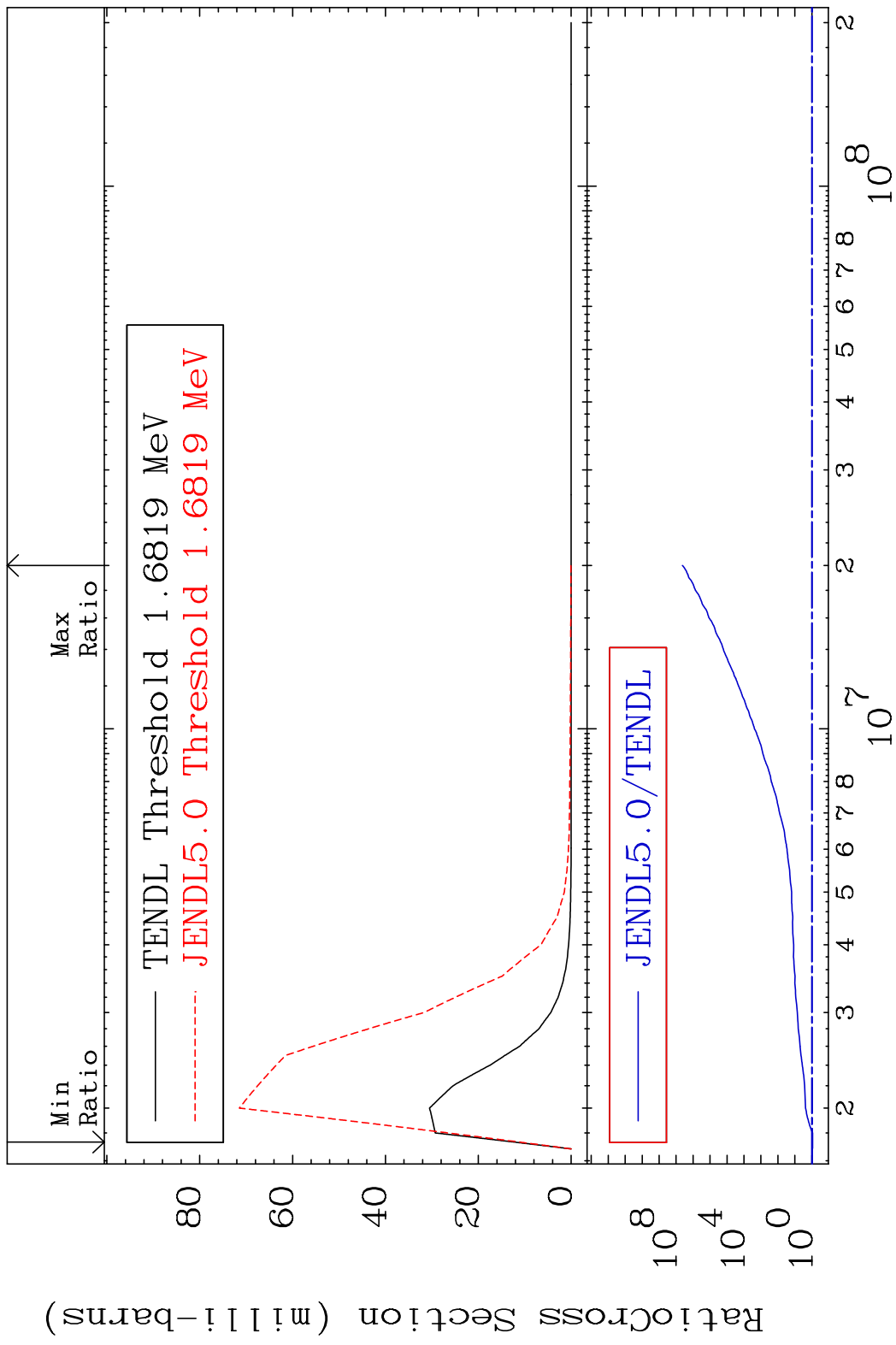
MAT 7231 MT= 78 (n,n') Level 72-Hf-176  
 Cross Section -89.66 To 656.2 %



MAT 7231 MT= 79 (n,n') Level 72-Hf-176  
 Cross Section 33.14 To 9999. %



MAT 7231 MT= 80 (n, n') Level 72-Hf-176  
 Cross Section -9.355 To 9999. %

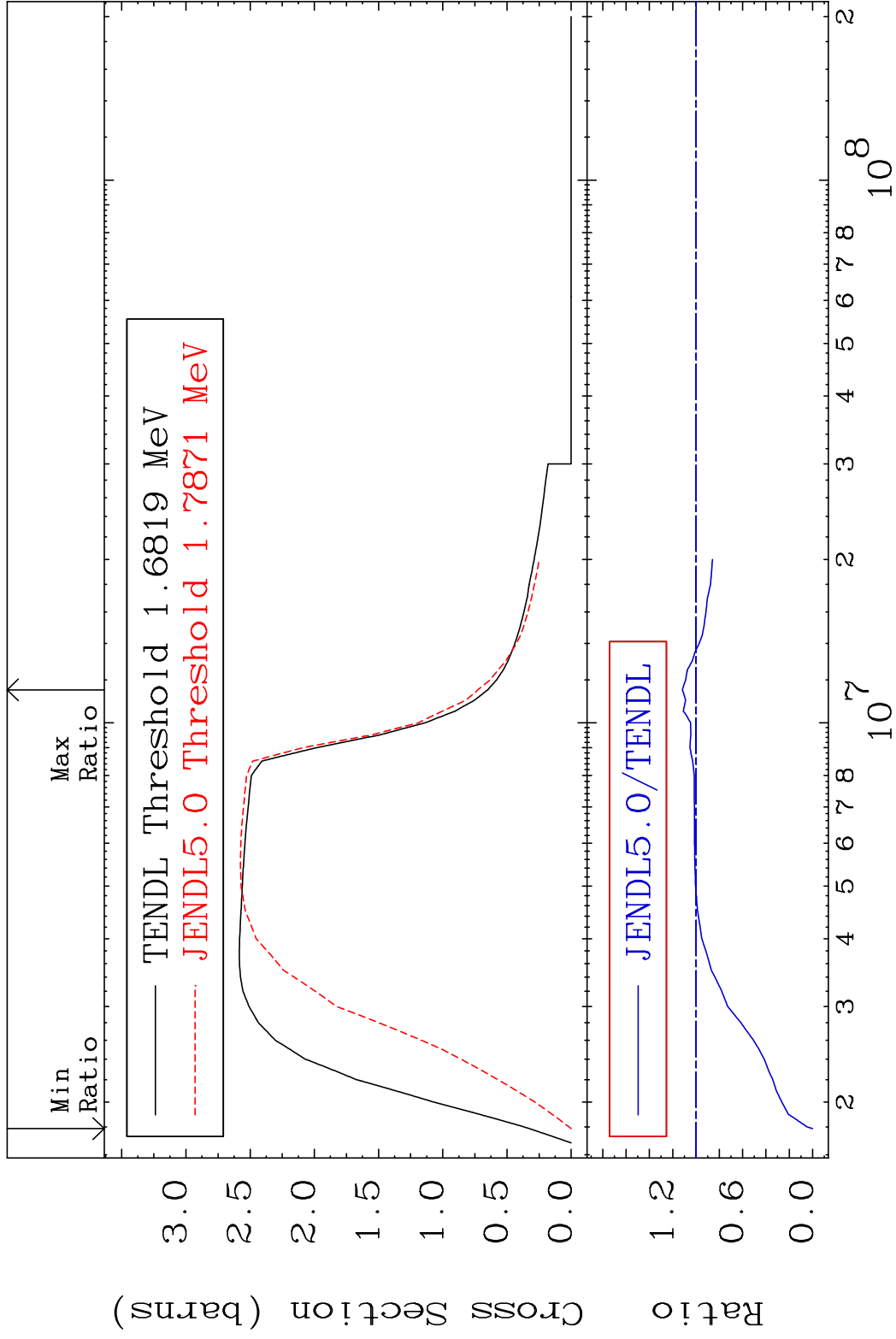


MAT 7231

(n, n') Continuum

72-Hf-176

Cross Section -100.0 To 11.72 %



39

Incident Energy (eV)

72-Hf-176

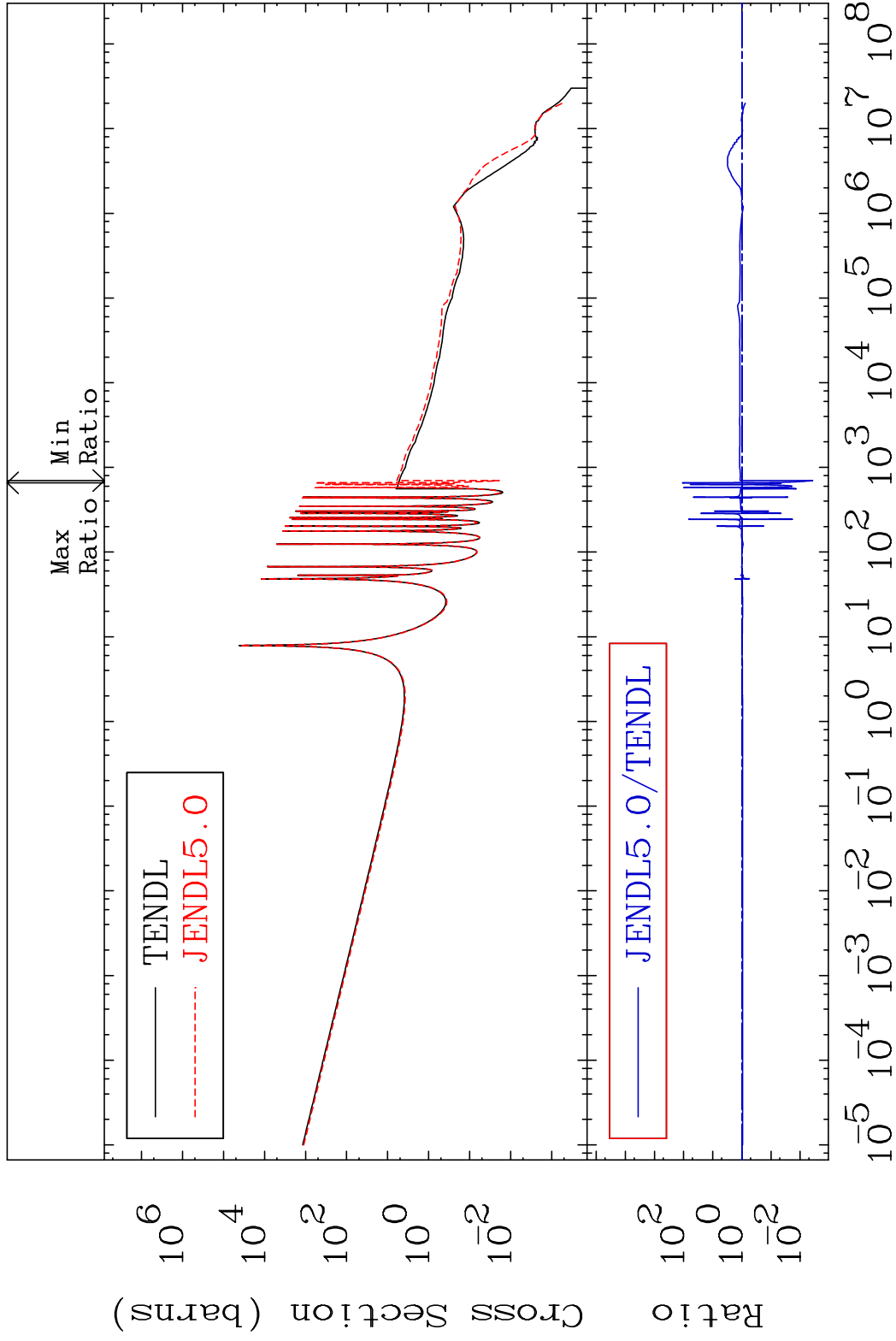


MAT 7231

(n,  $\gamma$ )

72-Hf-176

Cross Section -99.63 To 9999. %



40

Incident Energy (eV)

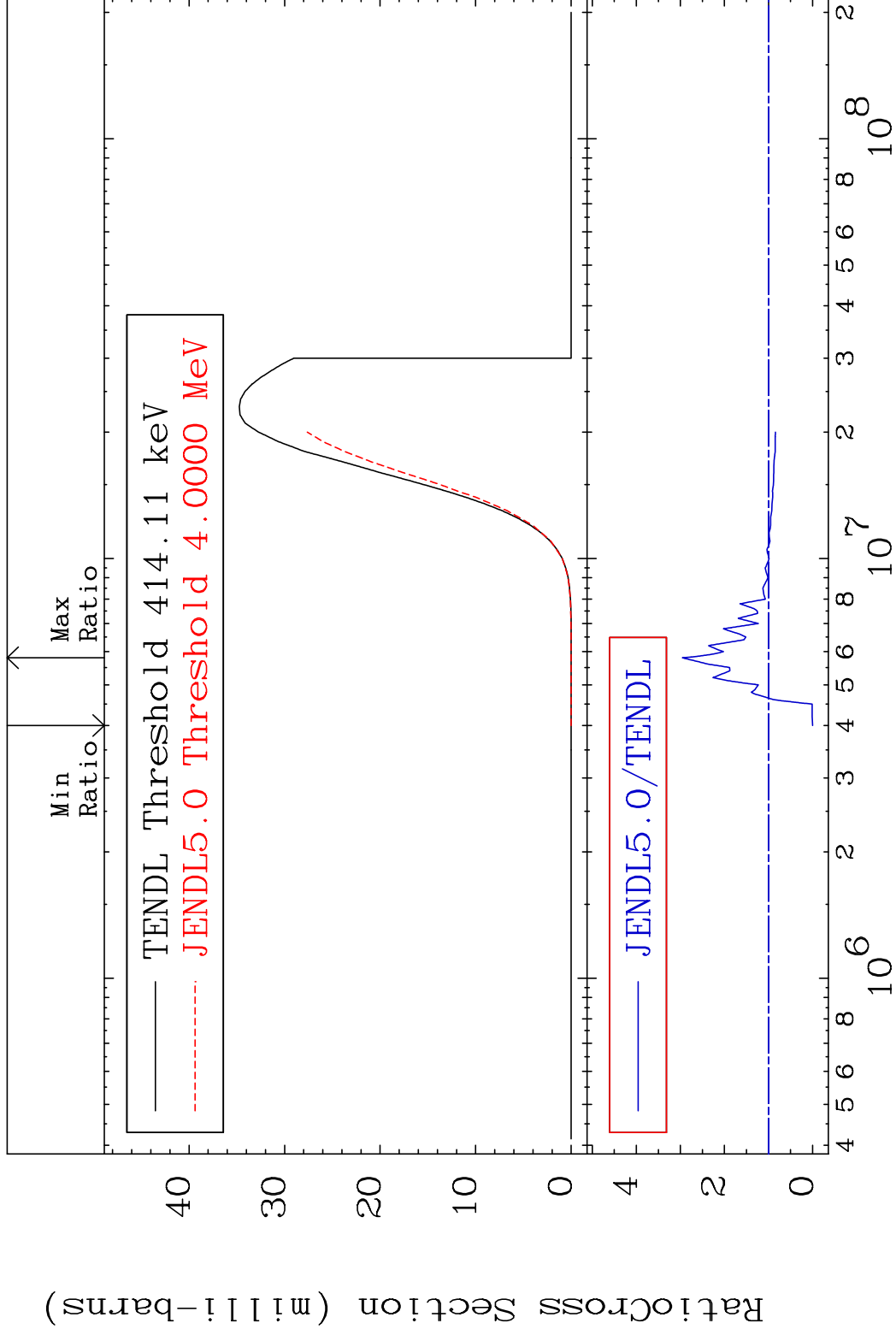
72-Hf-176

MAT 7231

(n, p)

72-Hf-176

Cross Section -100.0 To 195.5 %



41

Incident Energy (eV)

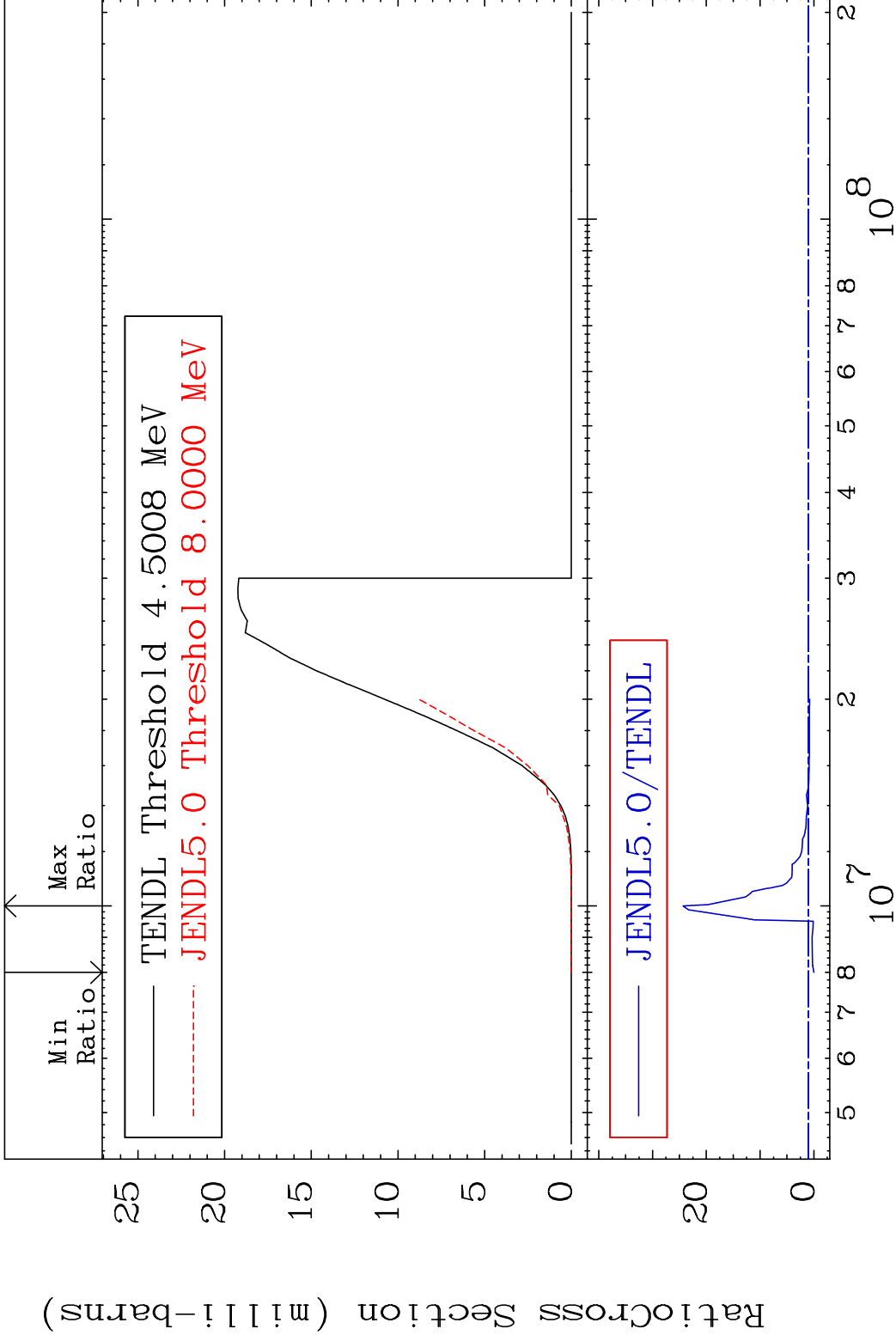
72-Hf-176

MAT 7231

(n, d)

72-Hf-176

Cross Section -100.0 To 2333. %



42

Incident Energy (eV)

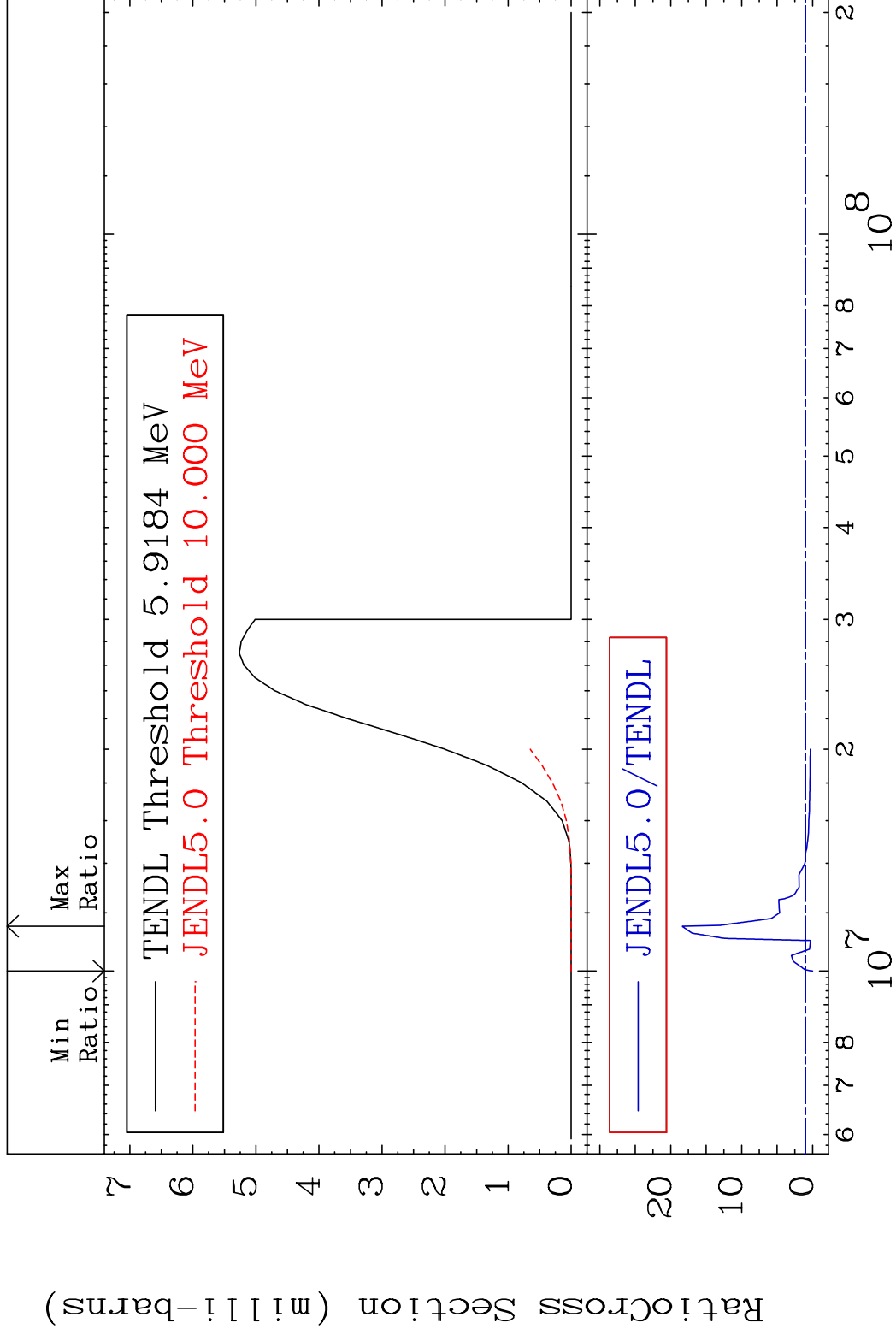
72-Hf-176

MAT 7231

(n, t)

72-Hf-176

Cross Section -100.0 To 1735. %



43

Incident Energy (eV)

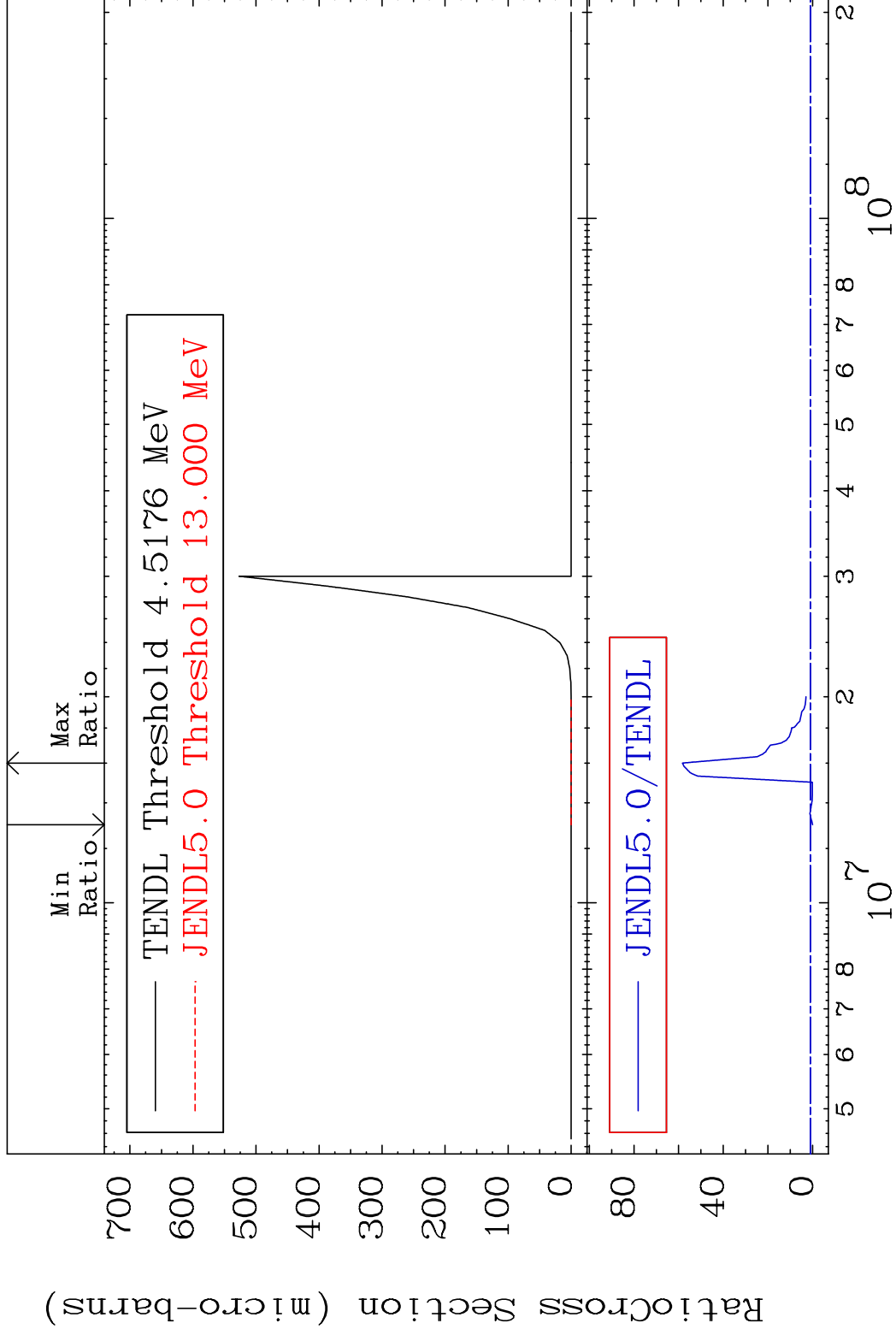
72-Hf-176

MAT 7231

(n, He-3)

72-Hf-176

Cross Section -100.0 To 5732. %



44

Incident Energy (eV)

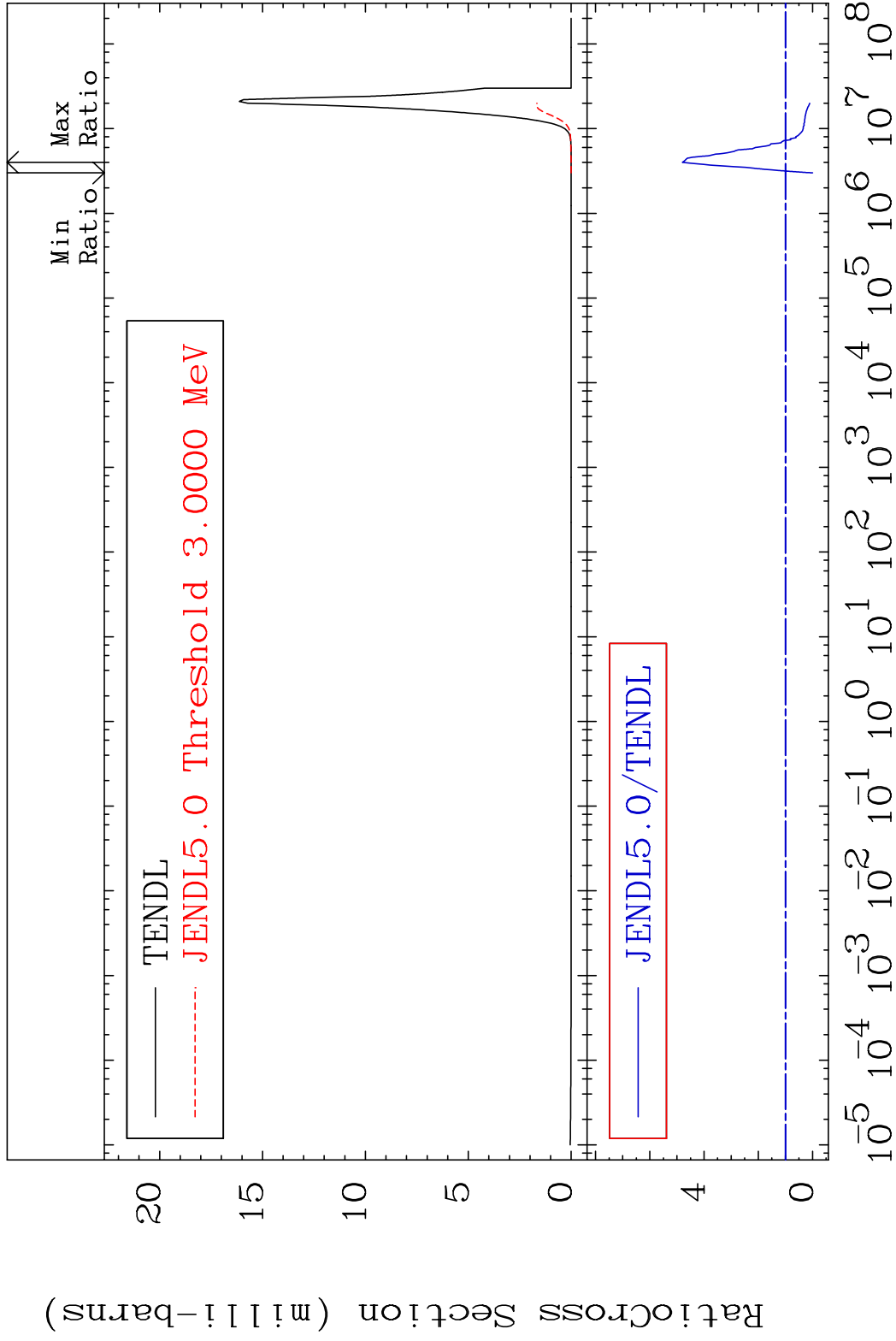
72-Hf-176

MAT 7231

(n,  $\alpha$ )

72-Hf-176

Cross Section -100.0 To 380.0 %



45

Incident Energy (eV)

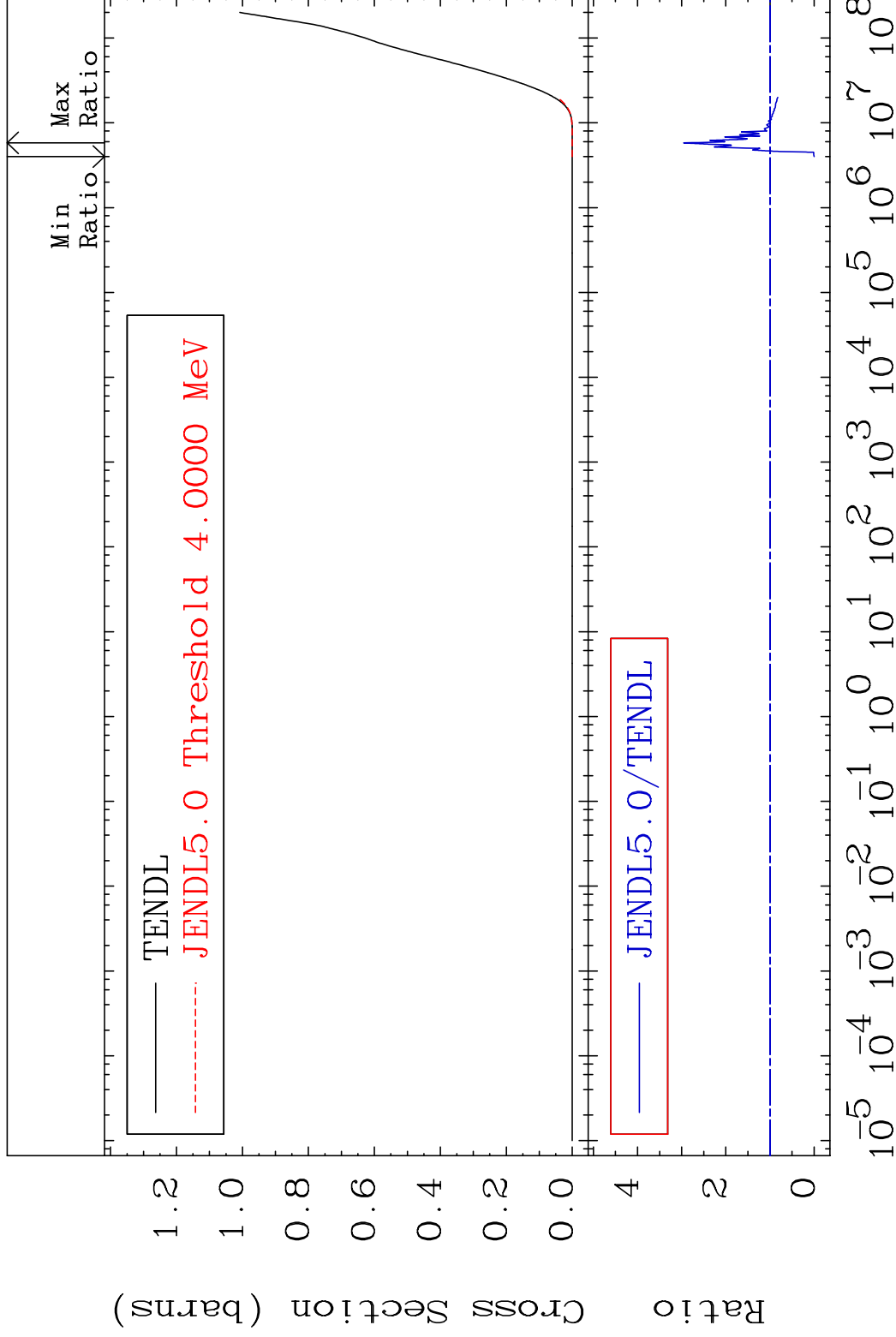
72-Hf-176

MAT 7231

Hydrogen Production

72-Hf-176

Cross Section -100.0 To 195.5 %



46

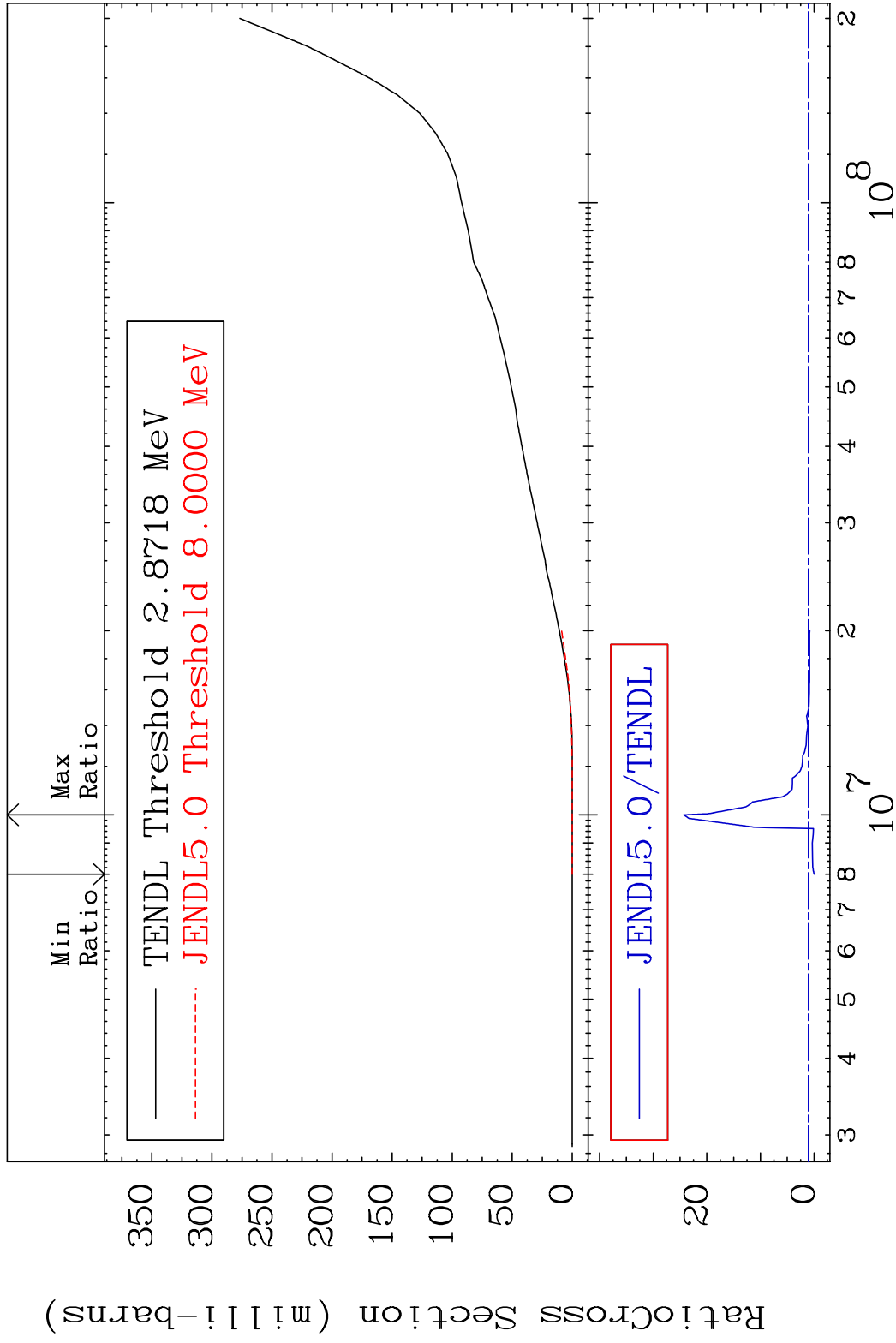
Incident Energy (eV)

72-Hf-176

MAT 7231

Deuterium Production 72-Hf-176

Cross Section -100.0 To 2333. %



47

Incident Energy (eV)

72-Hf-176

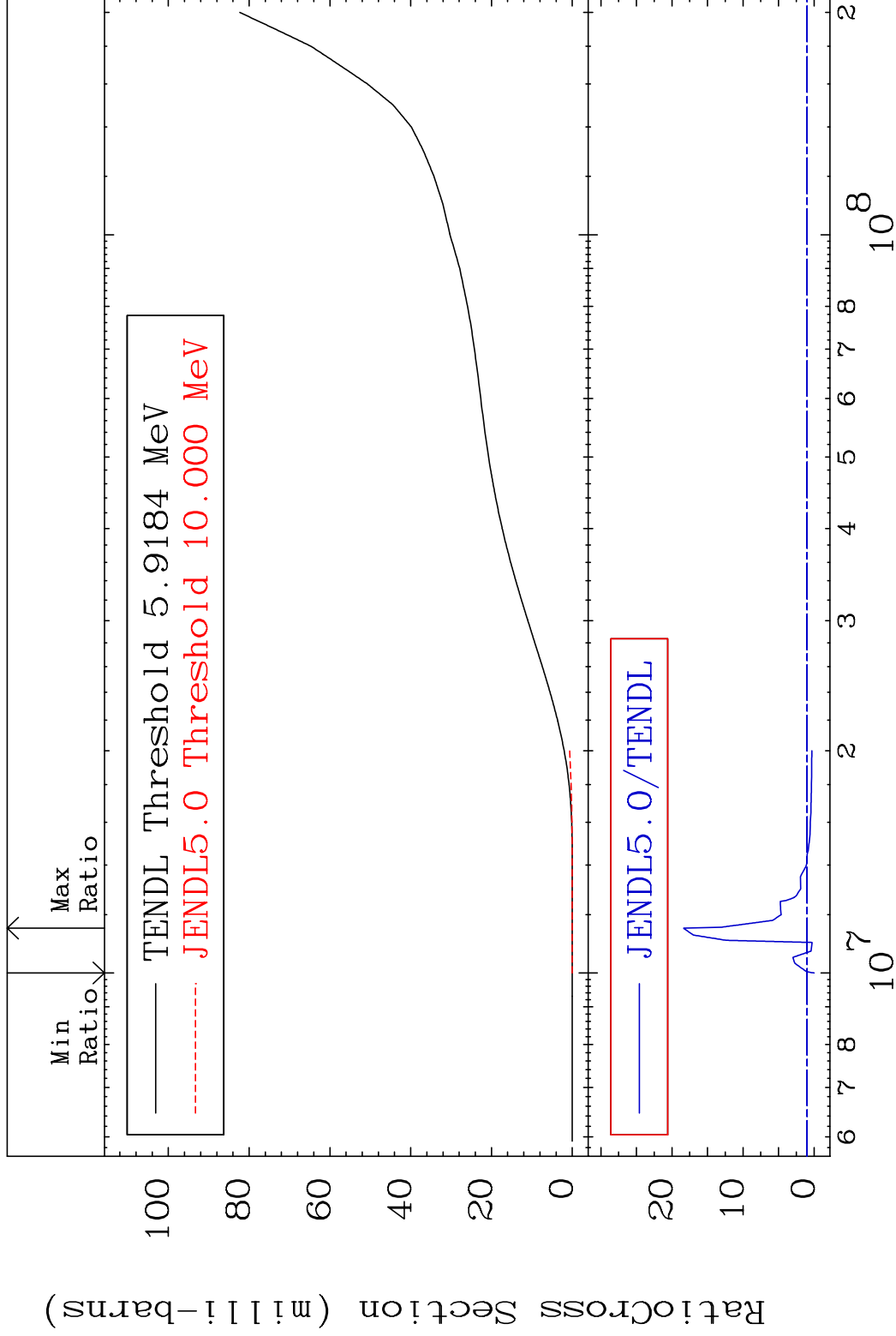


MAT 7231

Tritium Production

72-Hf-176

Cross Section -100.0 To 1735. %

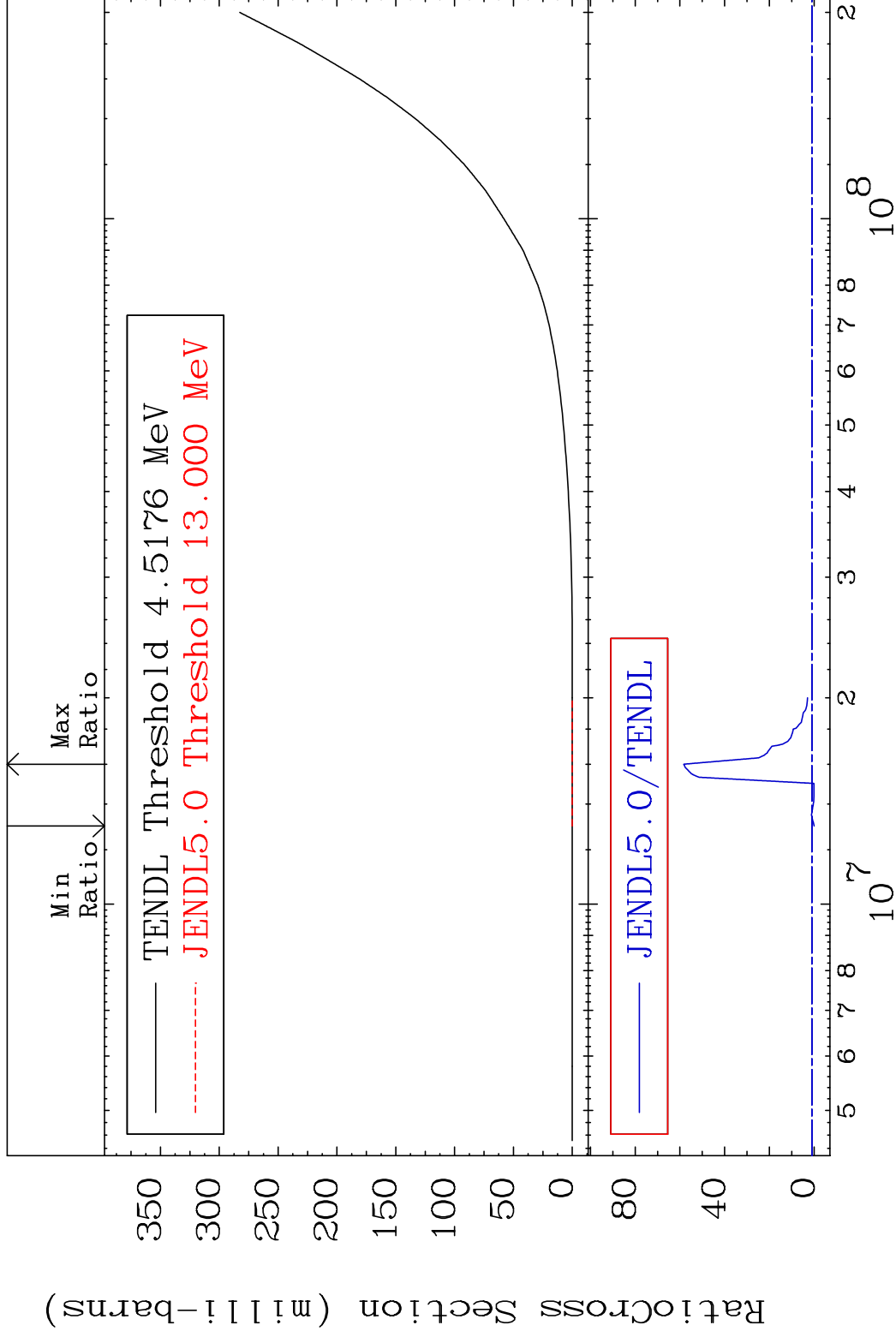


MAT 7231

He-3 Production

72-Hf-176

Cross Section -100.0 To 5732. %



49

Incident Energy (eV)

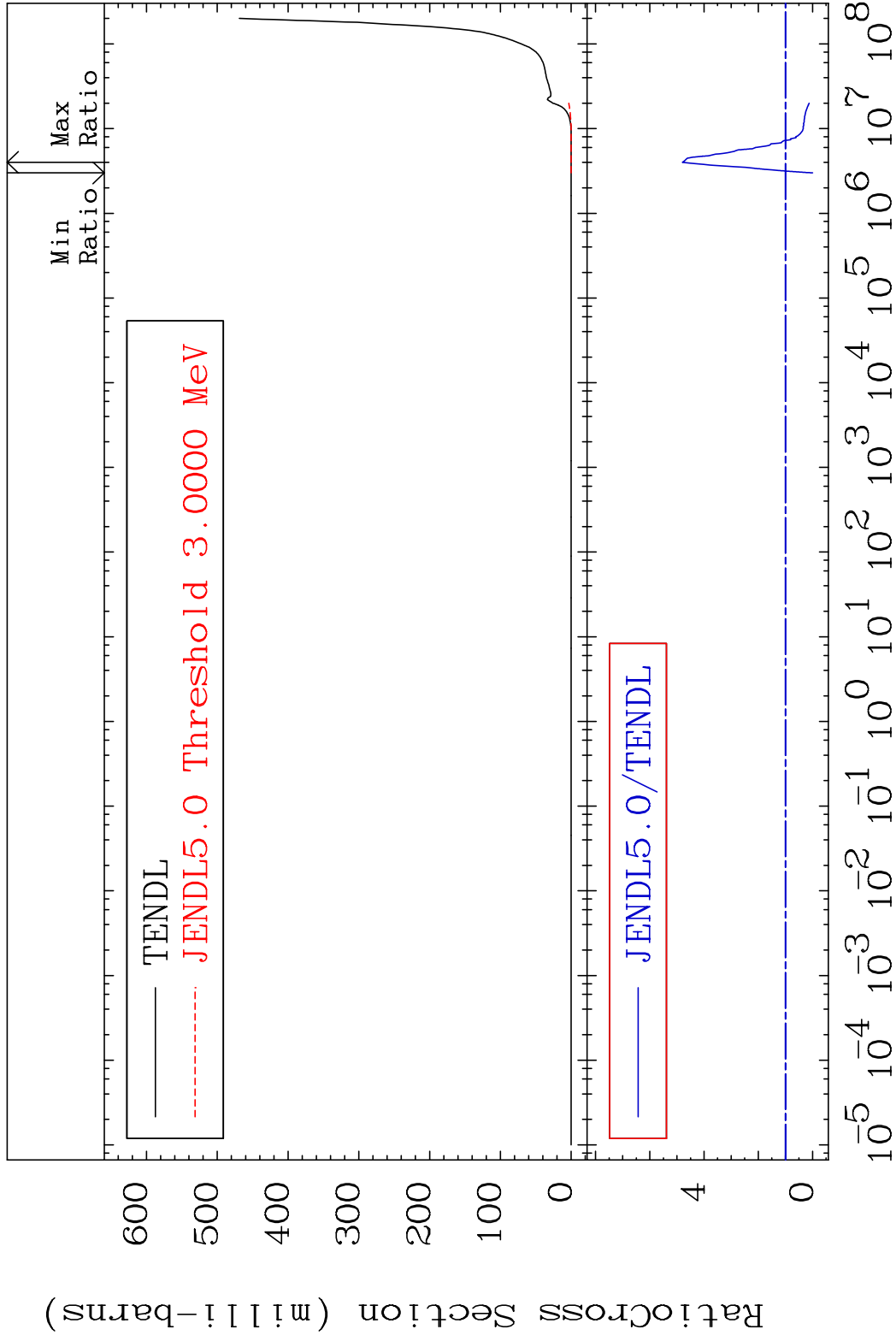
72-Hf-176

MAT 7231

He-4 Production

72-Hf-176

Cross Section -100.0 To 380.0 %

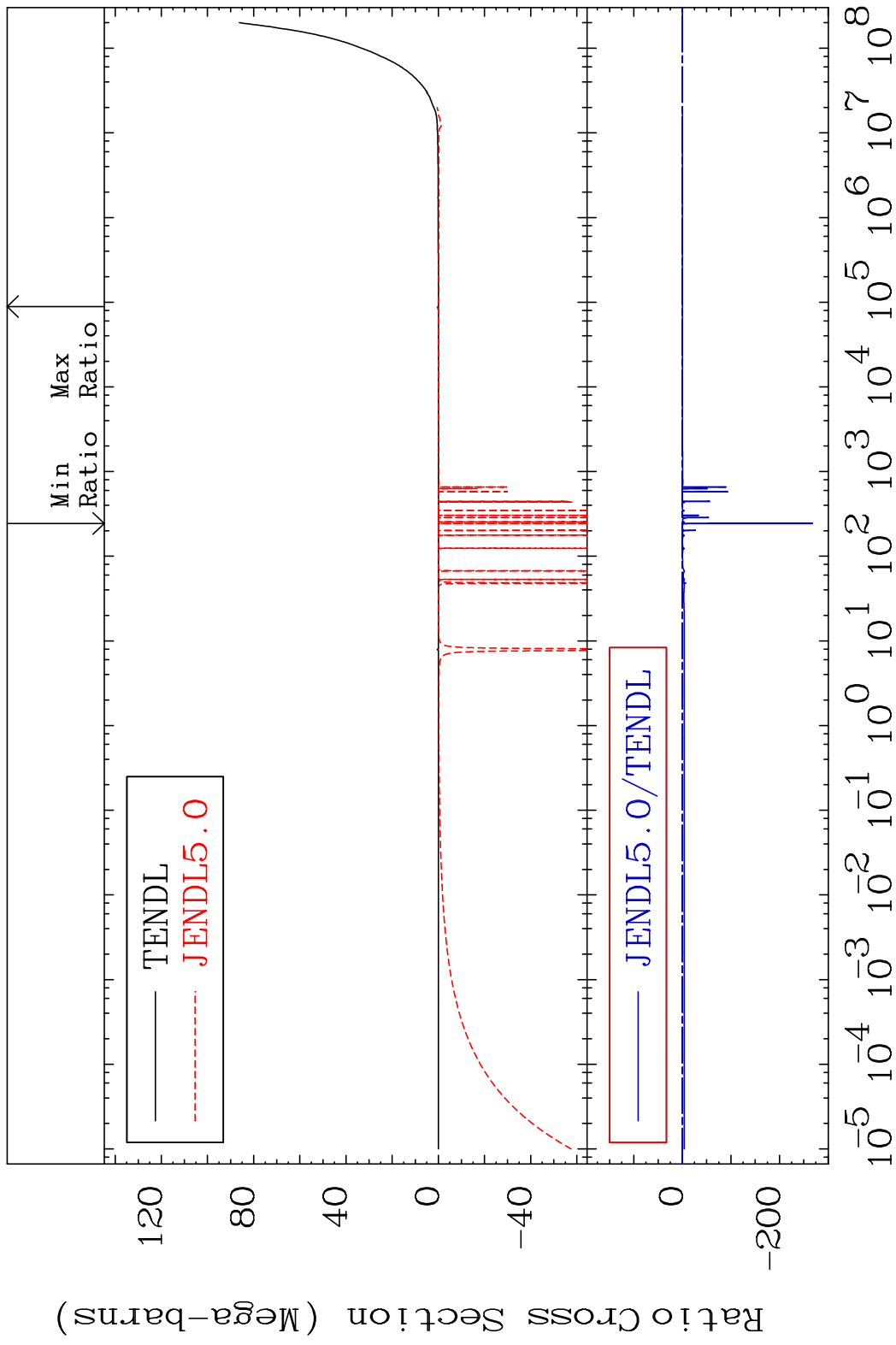


50

Incident Energy (eV)

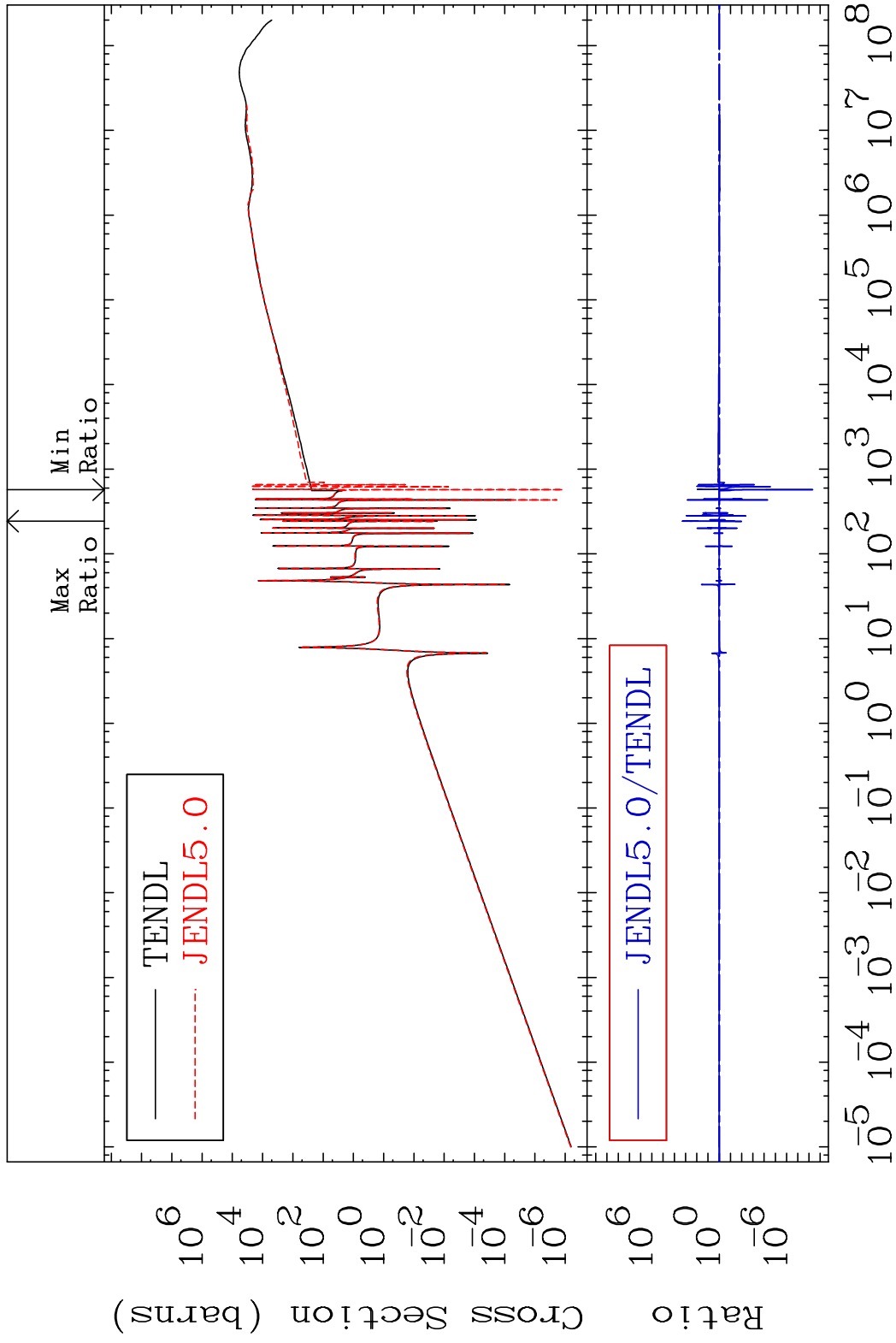
72-Hf-176

MAT 7231 Kerma total (eV-barns) 72-Hf-176  
 Cross Section -9999. To 5614. %



MAT 7231

Kerma elastic Cross Section -100.0 To 9999. %  
72-Hf-176

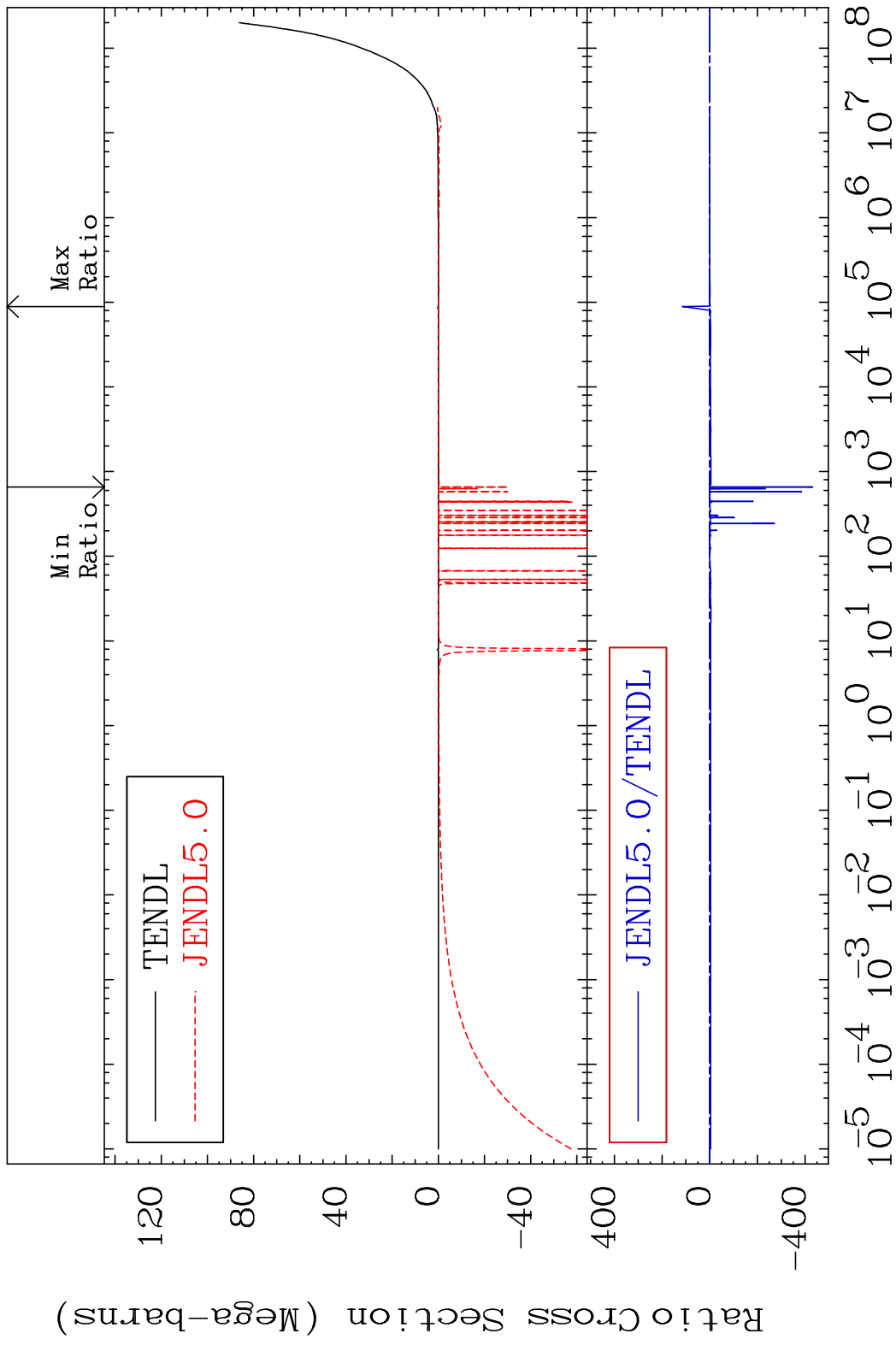


52

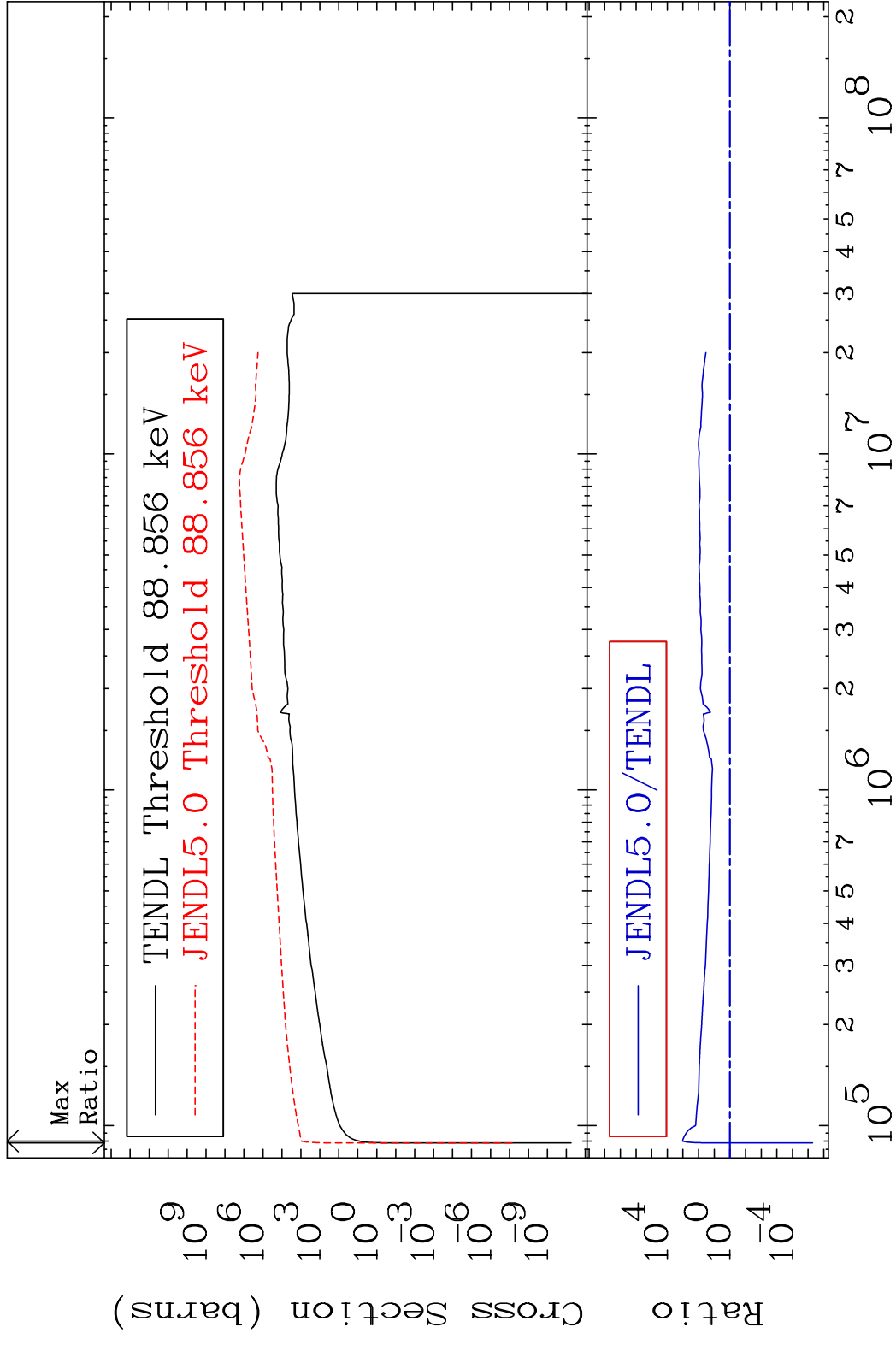
Incident Energy (eV)

72-Hf-176

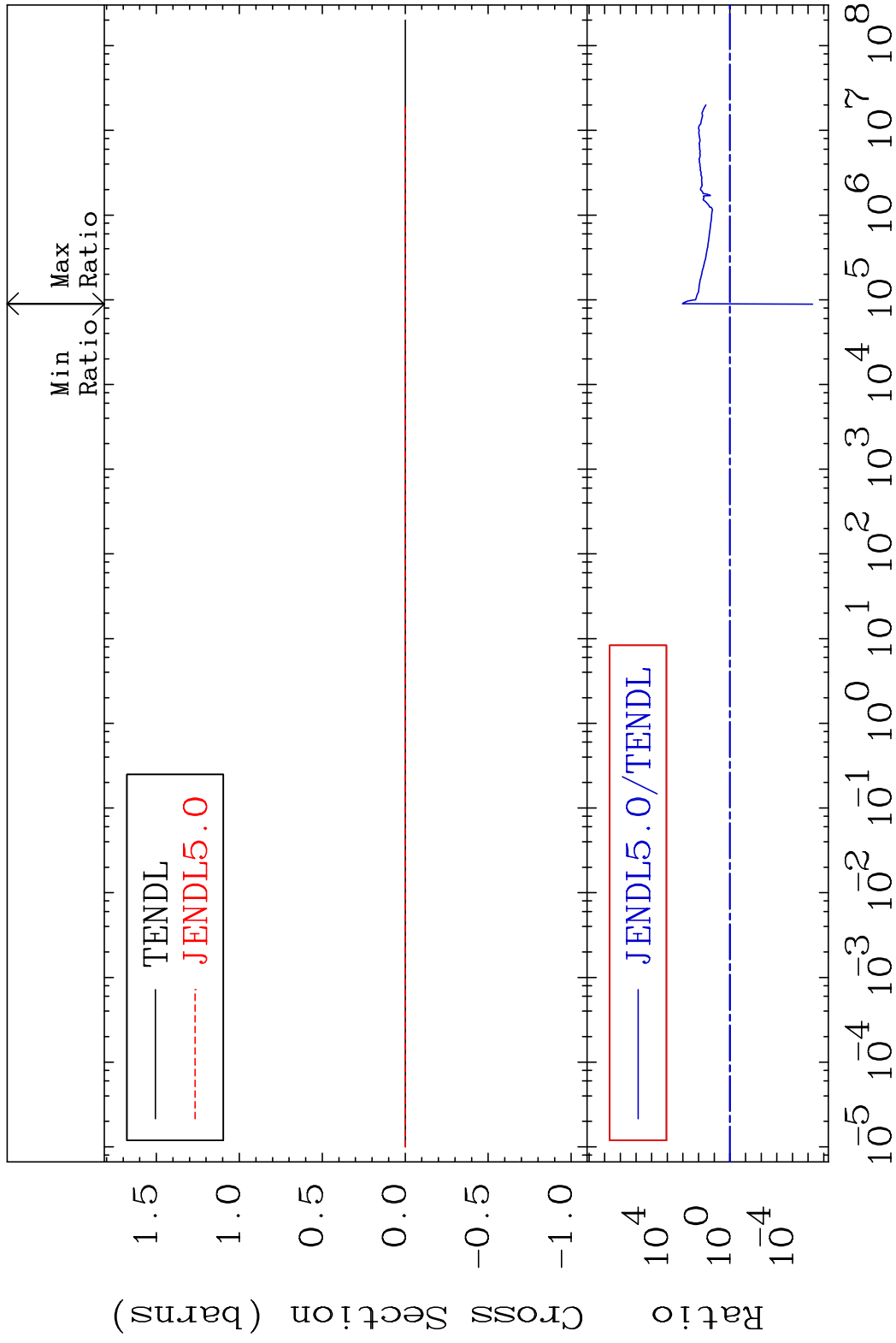
MAT 7231 Kerma non-elastic (all but mt2) 72-Hf-176  
 Cross Section -9999. To 9999. %



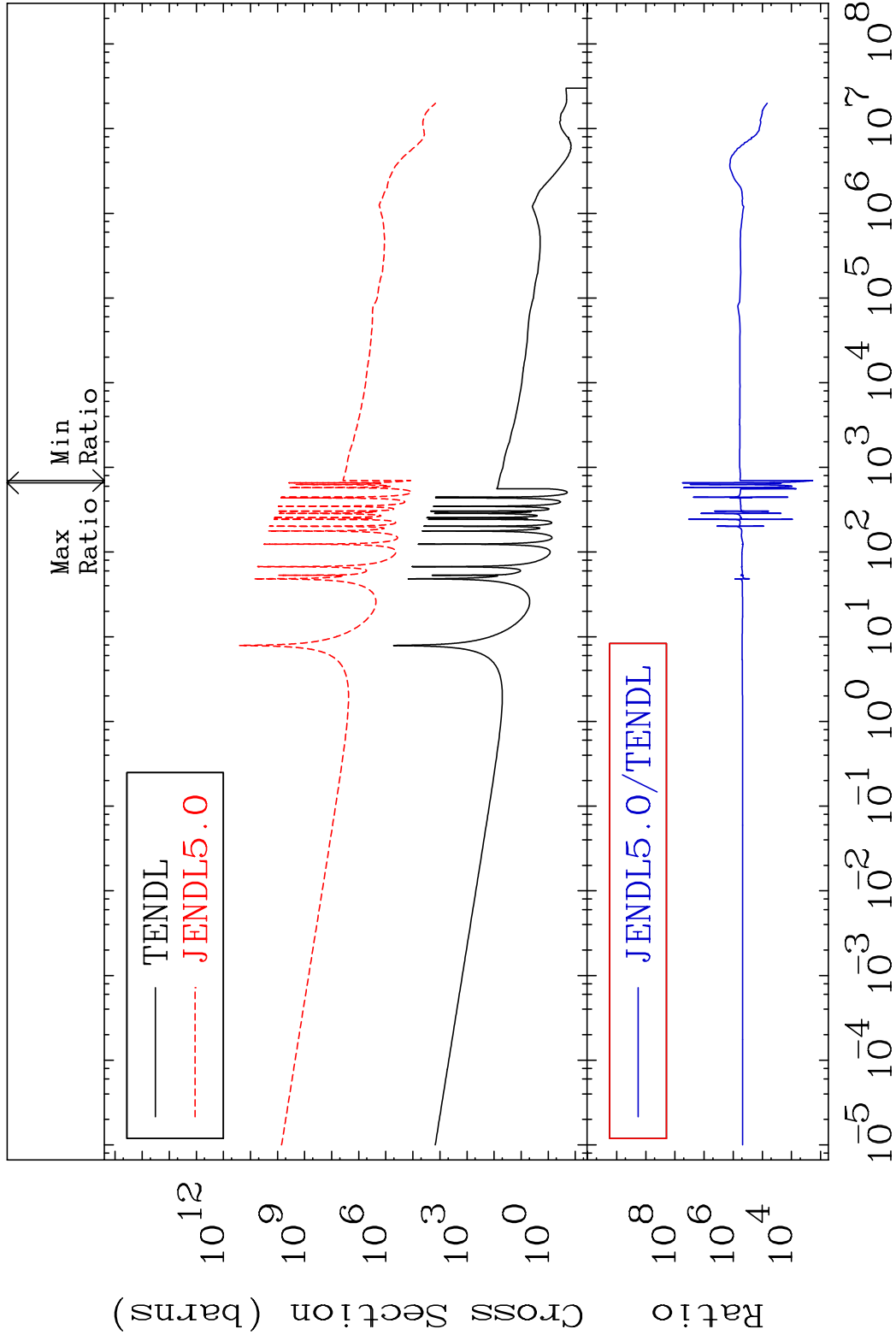
MAT 7231 Kerma inelastic (mt51-91) 72-Hf-176  
 Cross Section -100.0 To 9999. %



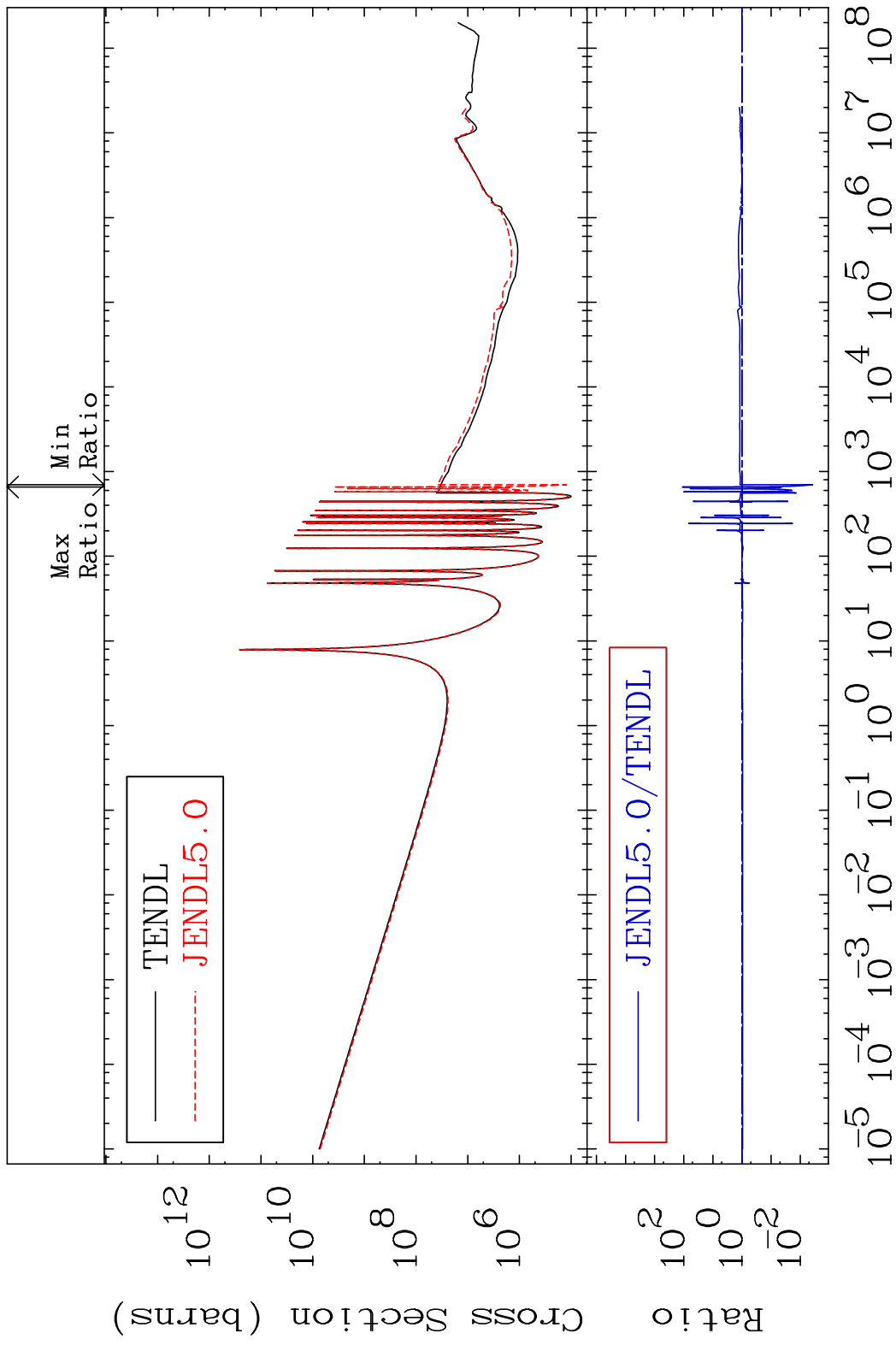
MAT 7231 Kerma fission (mt18 or mt19-20-21-38)72-Hf-176  
 Cross Section -100.0 To 9999. %



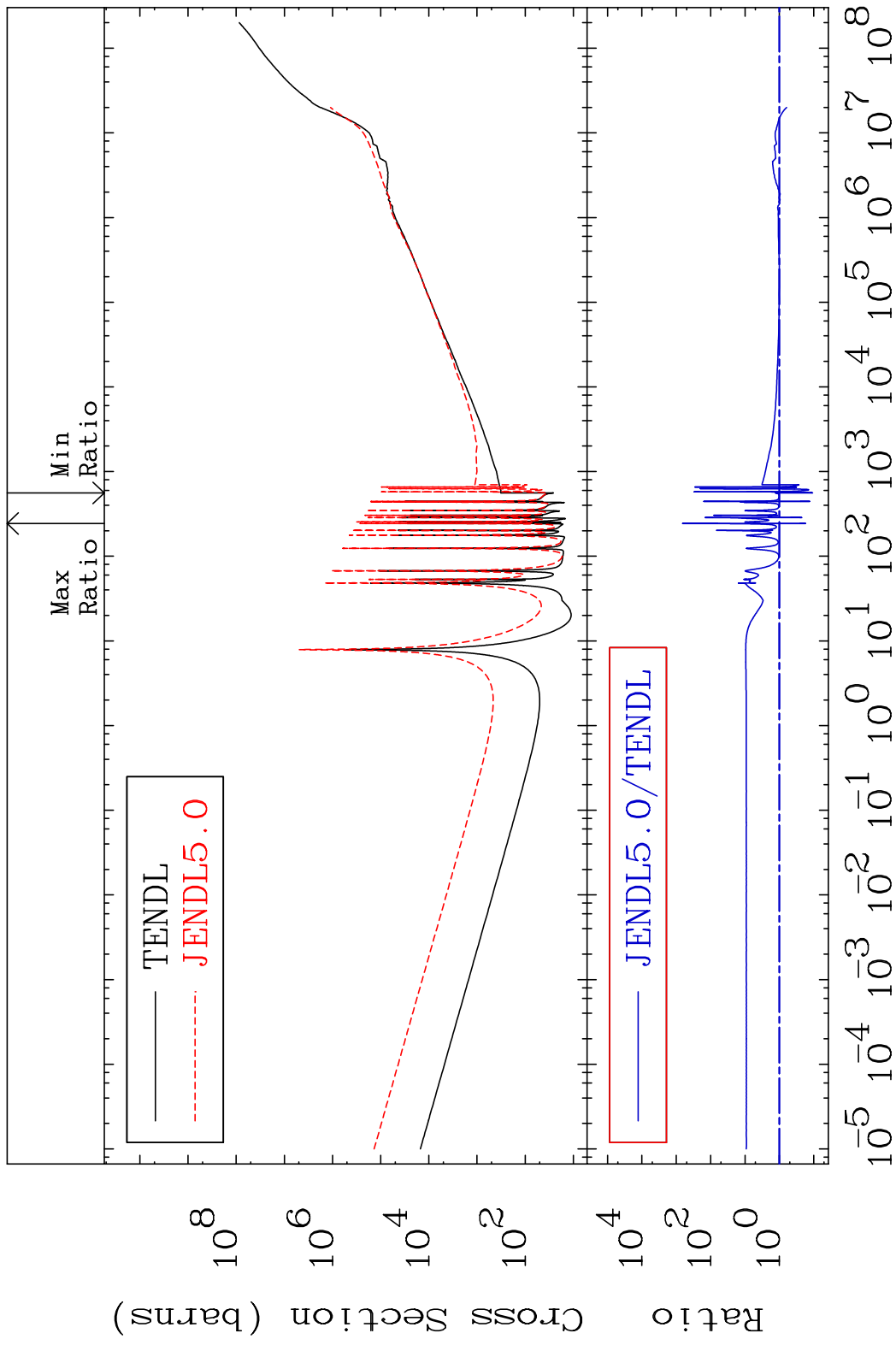




MAT 7231 Total photon (eV-barns) 72-Hf-176  
 Cross Section -99.62 To 9999. %



MAT 7231 Total kinematic kerma (high limit) 72-Hf-176  
 Cross Section -89.18 To 9999. %

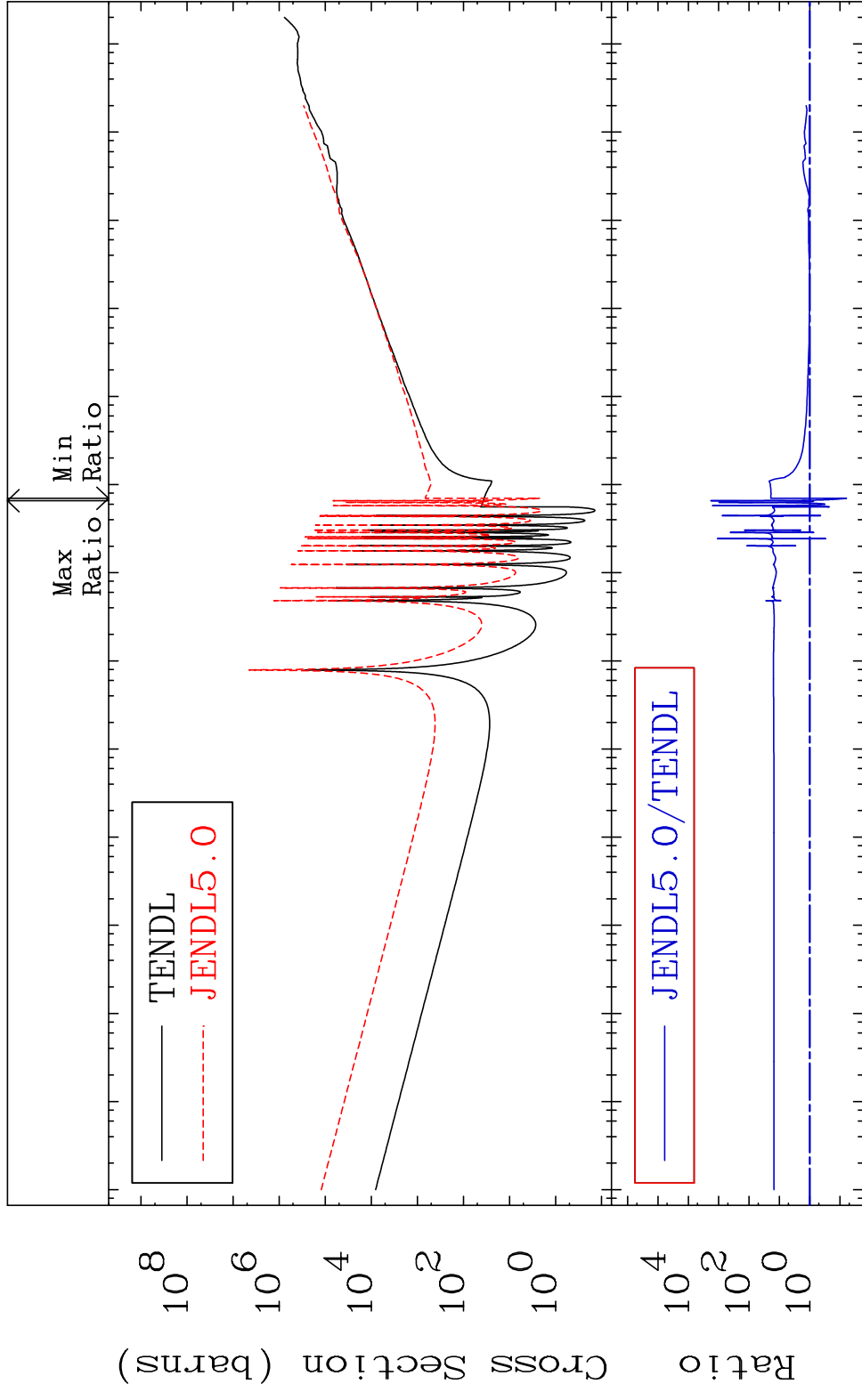


MAT 7231

Dpa total (eV-barns)

72-Hf-176

Cross Section -93.80 To 9999. %



Cross Section (barns)

Ratio

10<sup>8</sup>  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>

10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>

59

Incident Energy (eV)

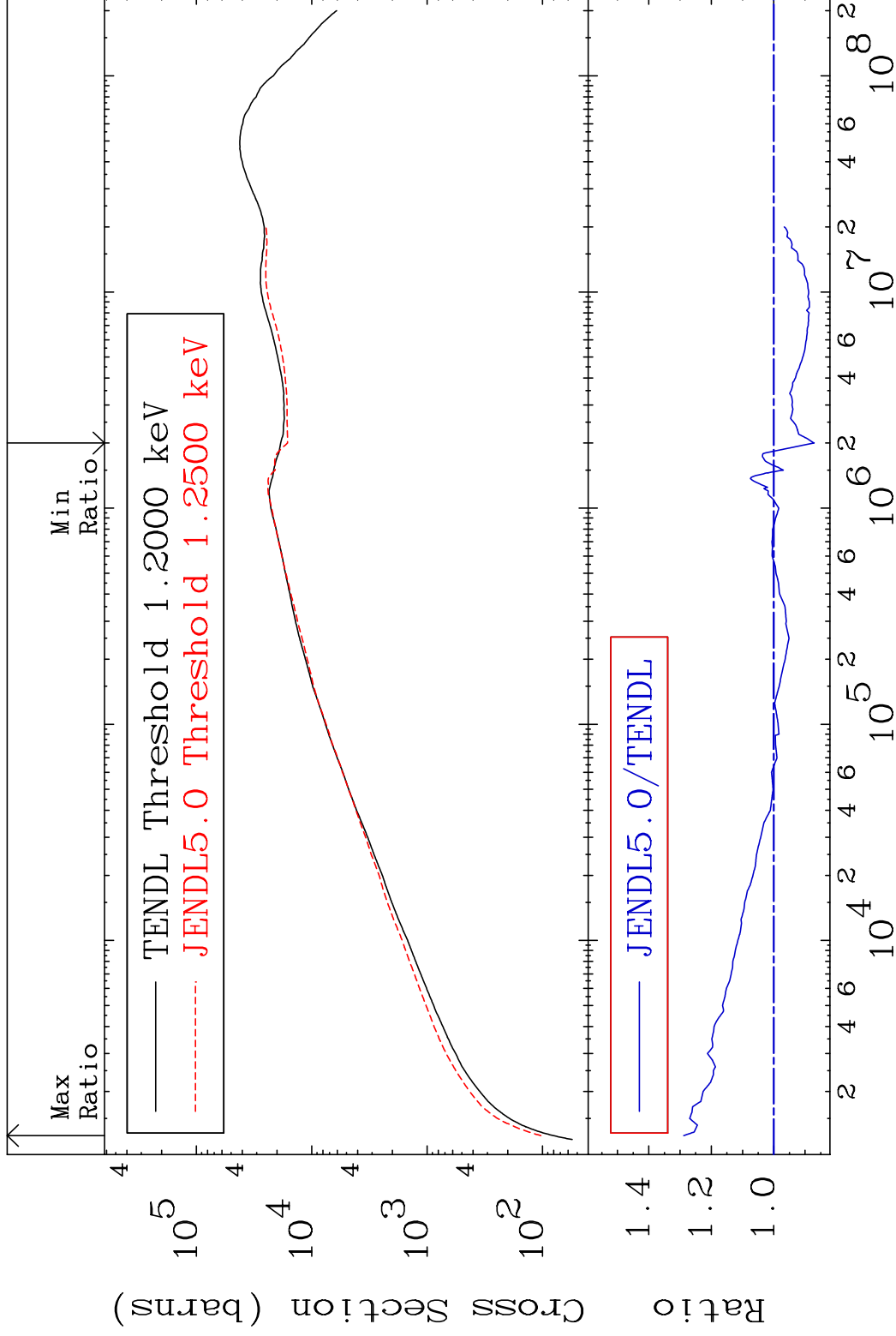
72-Hf-176

MAT 7231

Dpa elastic (mt2)

72-Hf-176

Cross Section -12.89 To 28.84 %

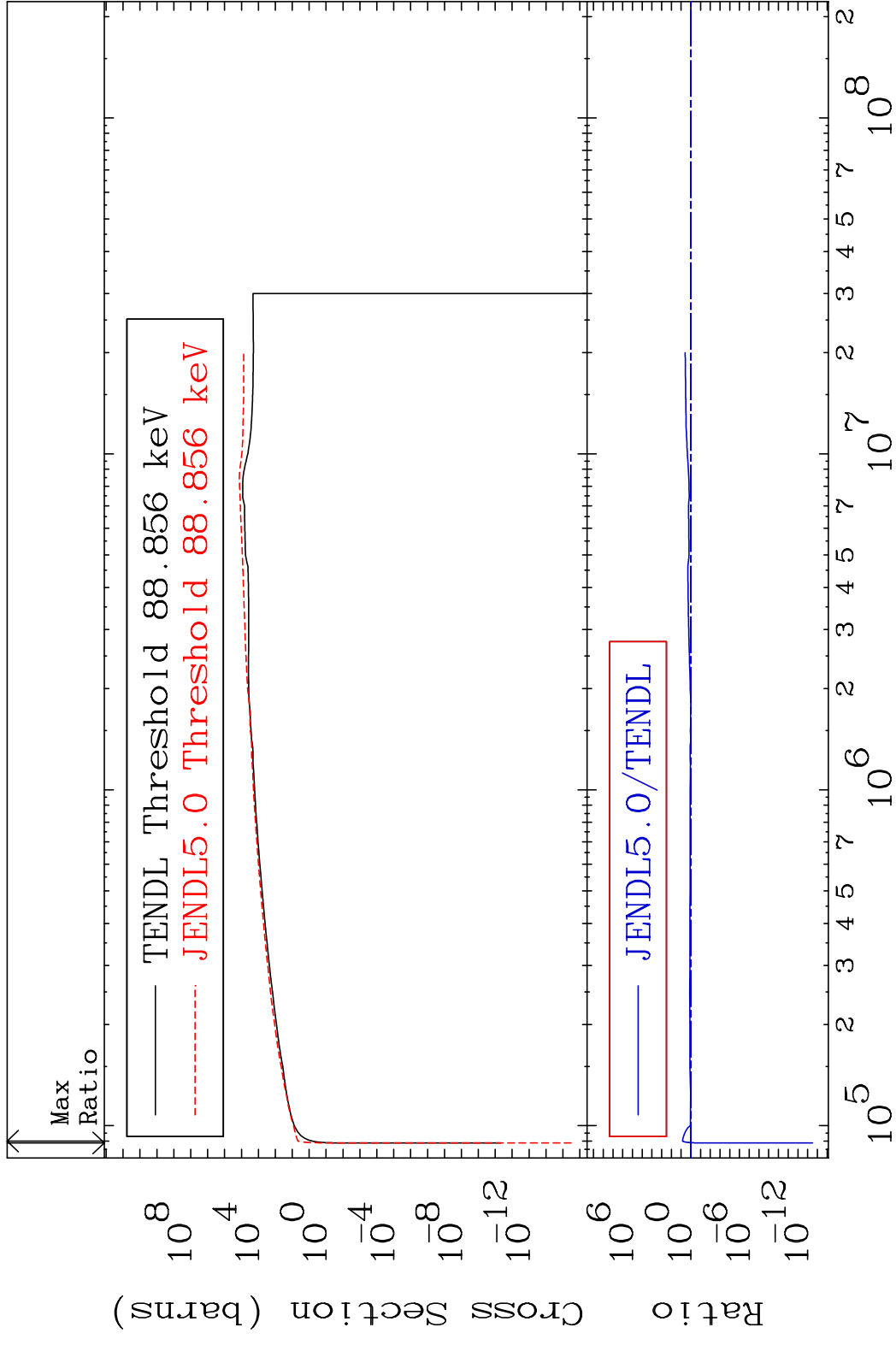


60

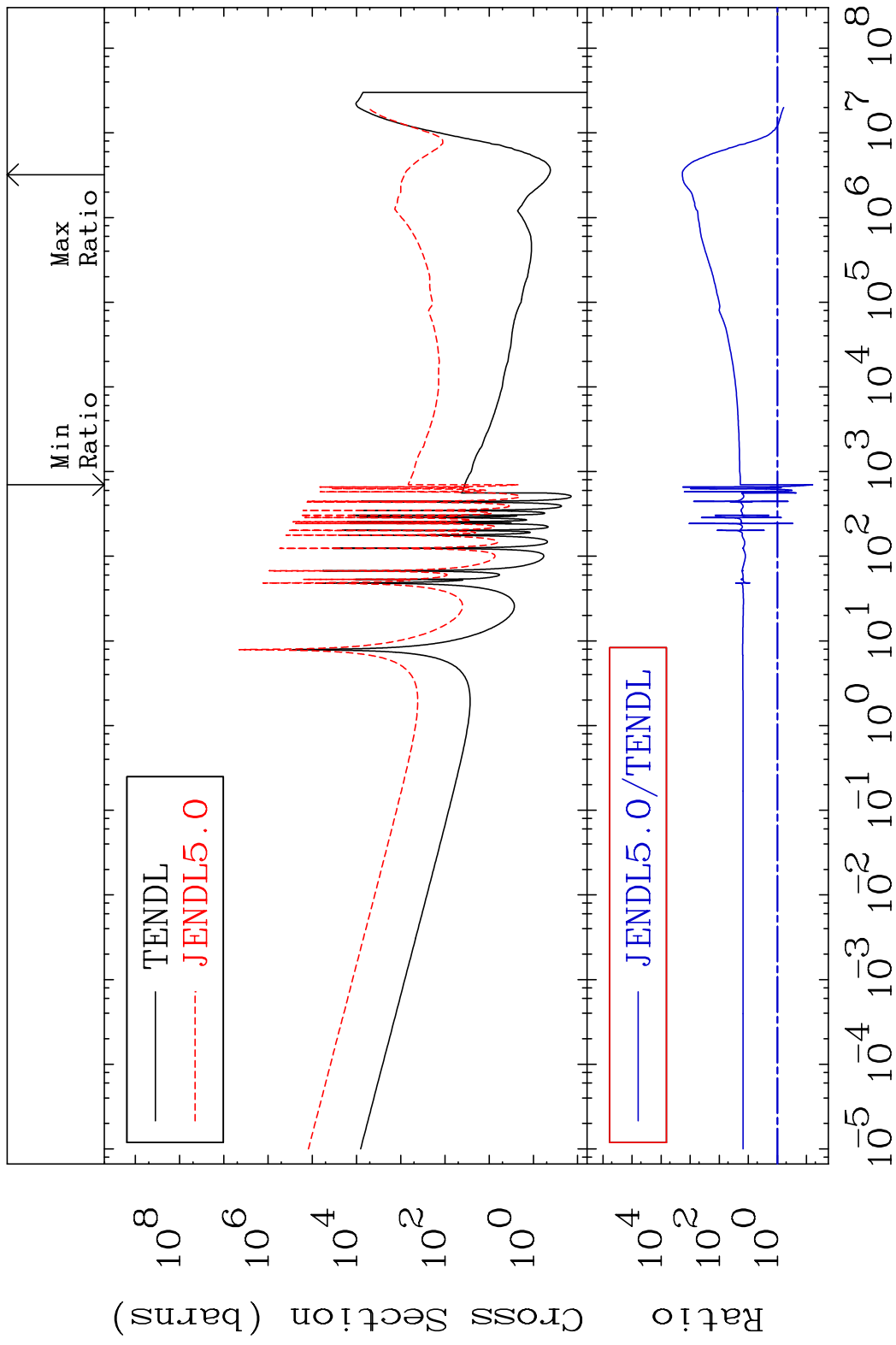
Incident Energy (eV)

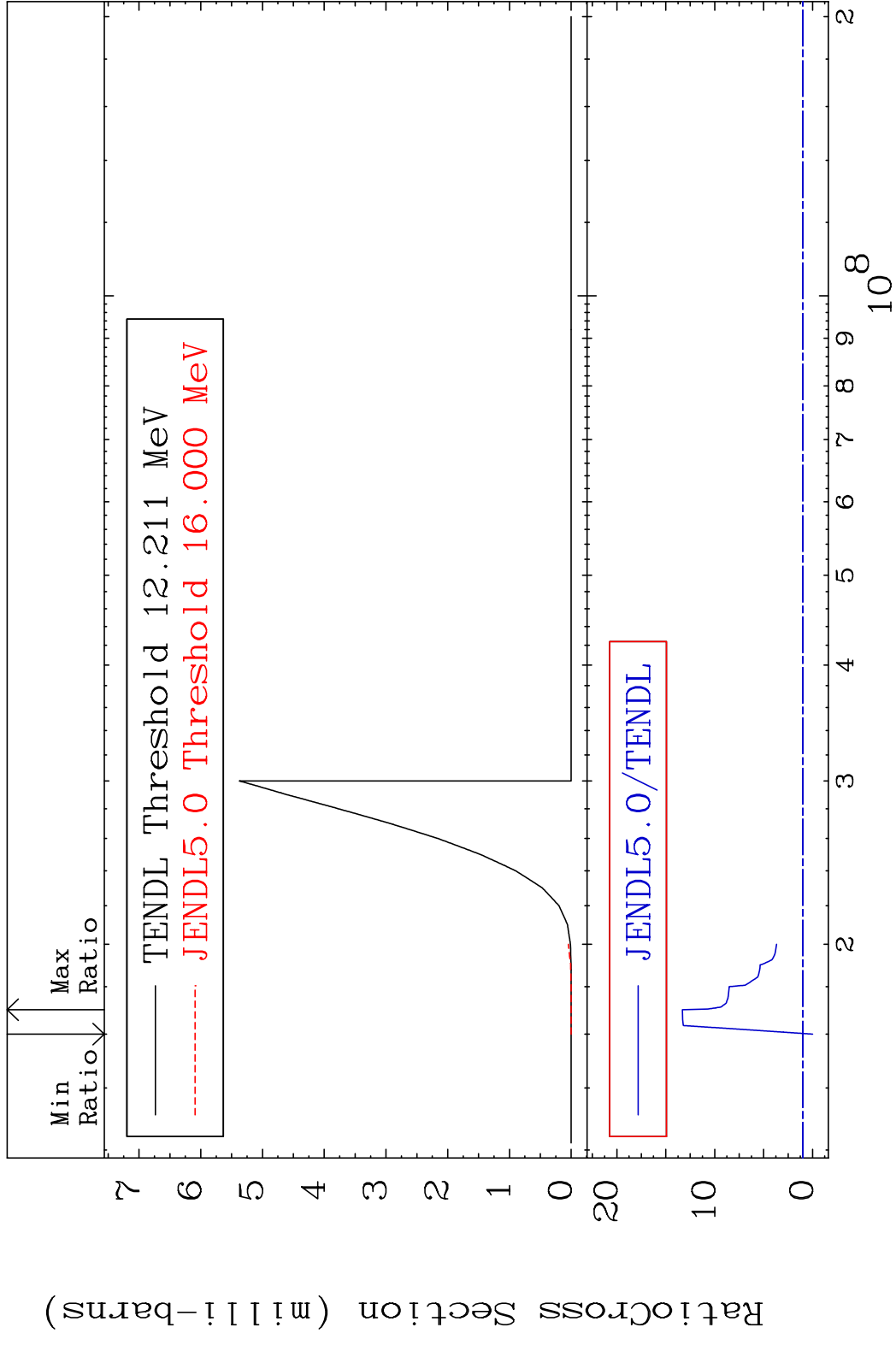
72-Hf-176

MAT 7231 Dpa inelastic (mt51-91) 72-Hf-176  
 Cross Section -100.0 To 645.2 %

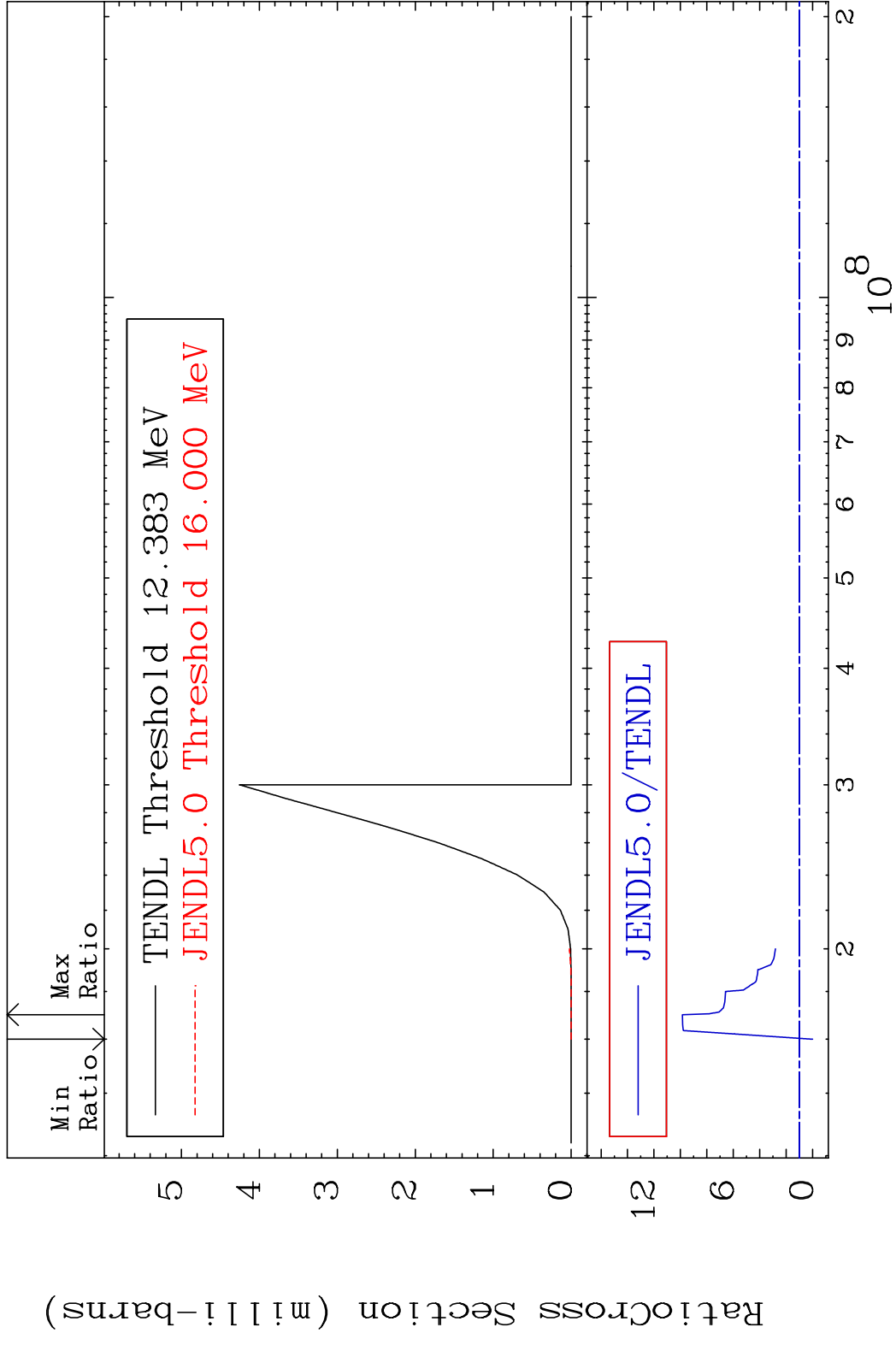


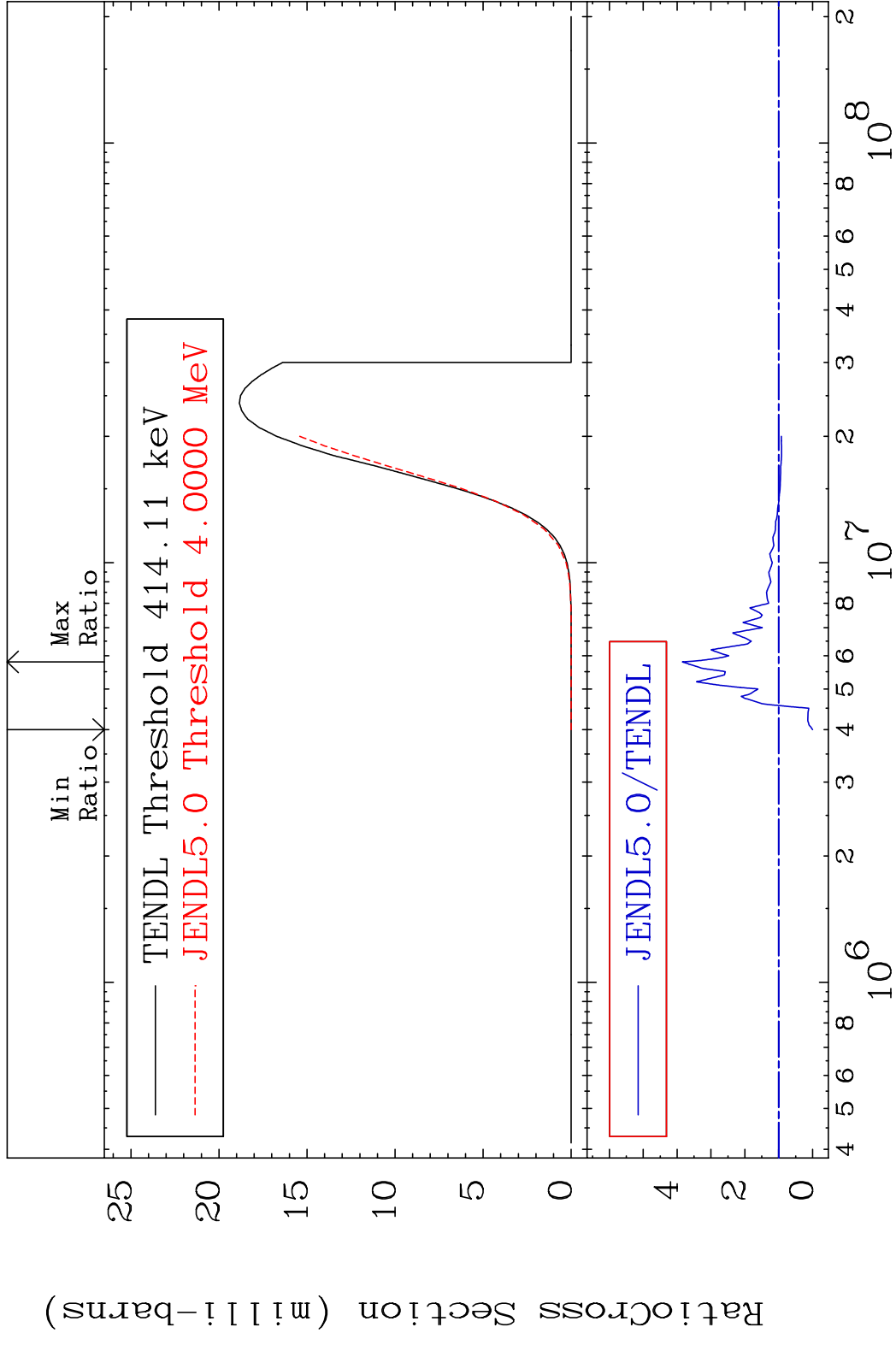
MAT 7231 Dpa disappearance (mt102 -120) 72-Hf-176  
 Cross Section -93.80 To 9999. %

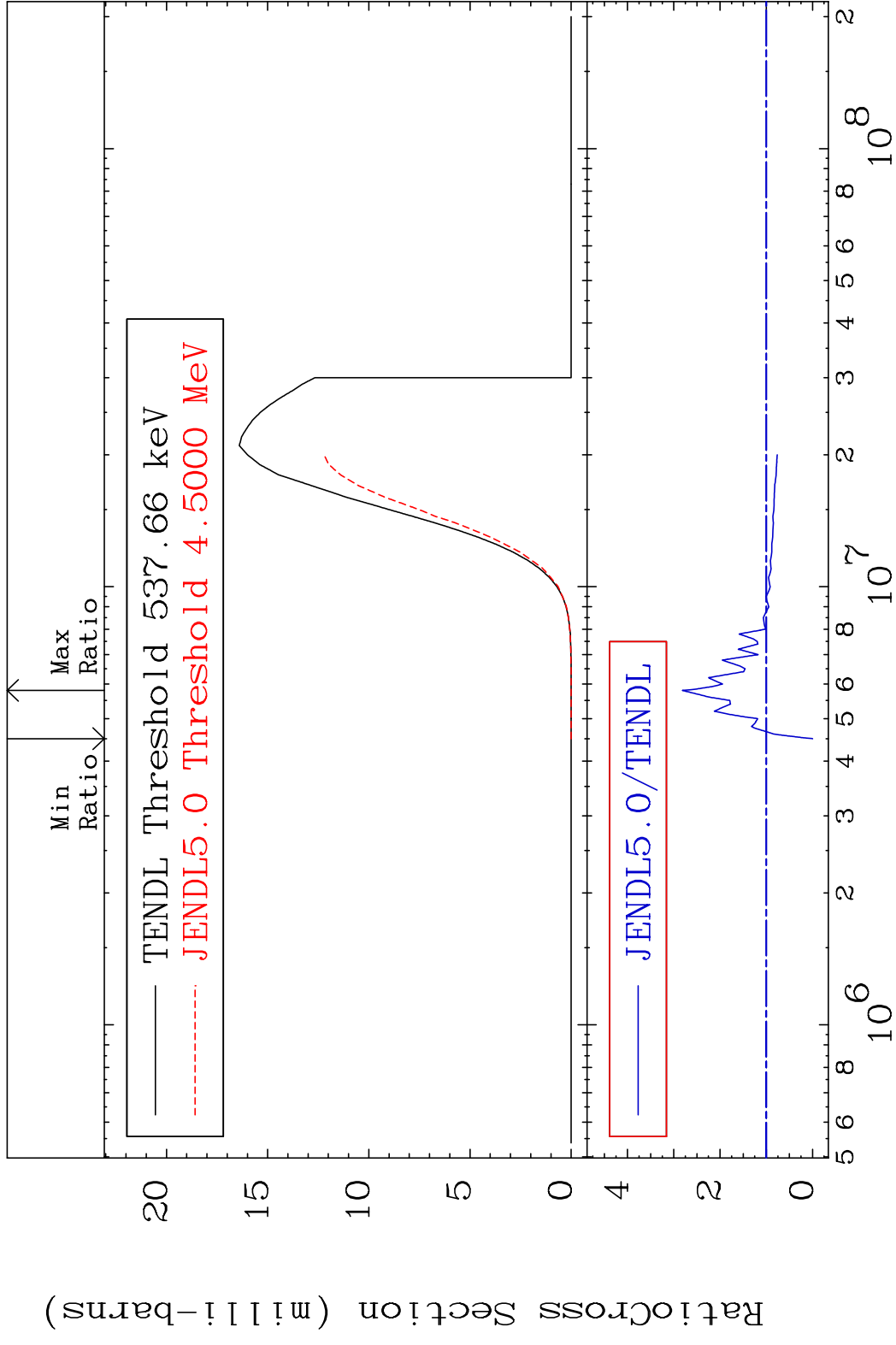












MAT 7231 (n, t):71-Lu-174g 72-Hf-176  
 Radionuclide Production Cross Section 180.01 dth 1783. %

