

Program Complot  
(Version 2021-1)

by

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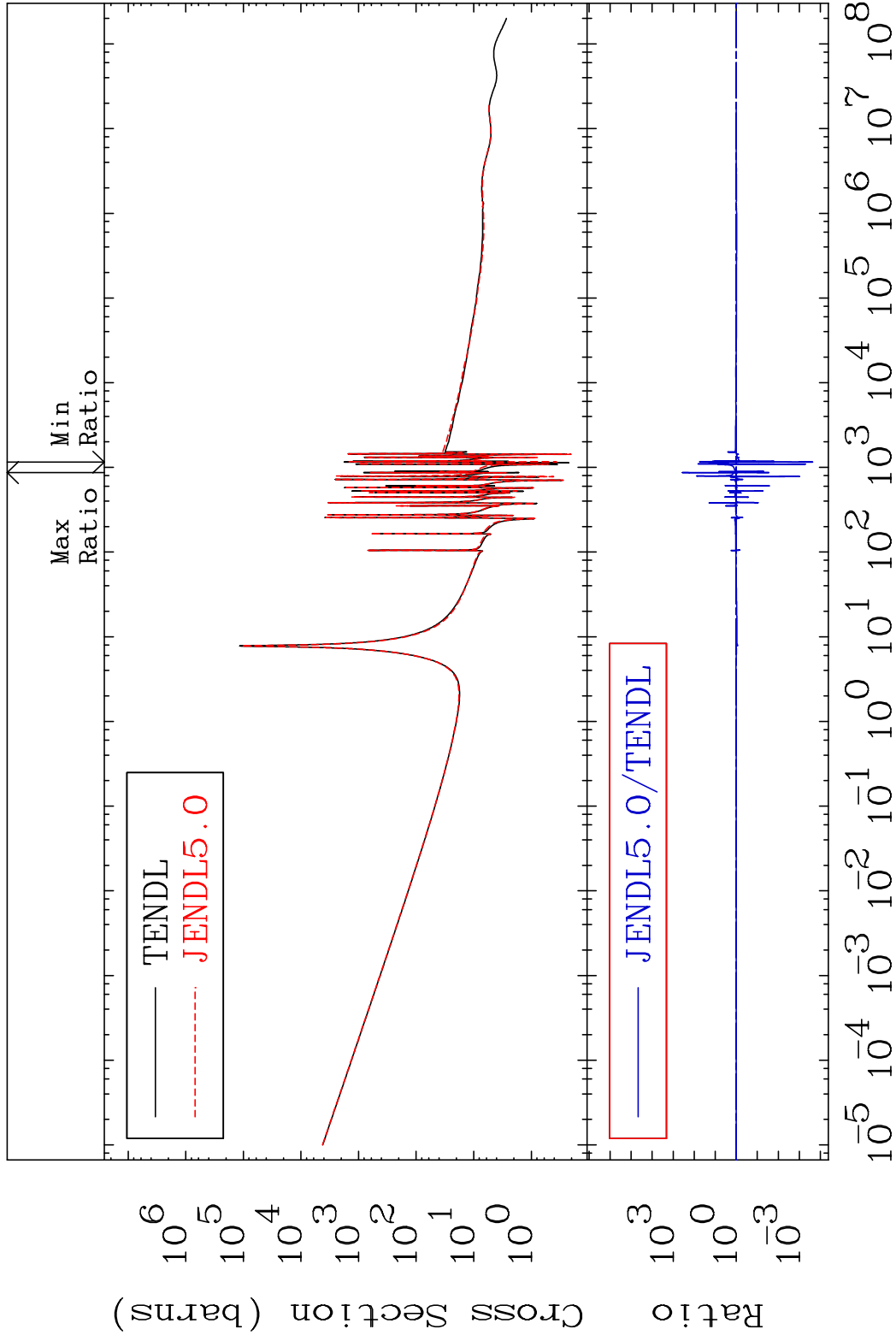
Press Mouse Button to Start

MAT 7237

Total

72-Hf-178

Cross Section -99.98 To 9999. %



1

Incident Energy (eV)

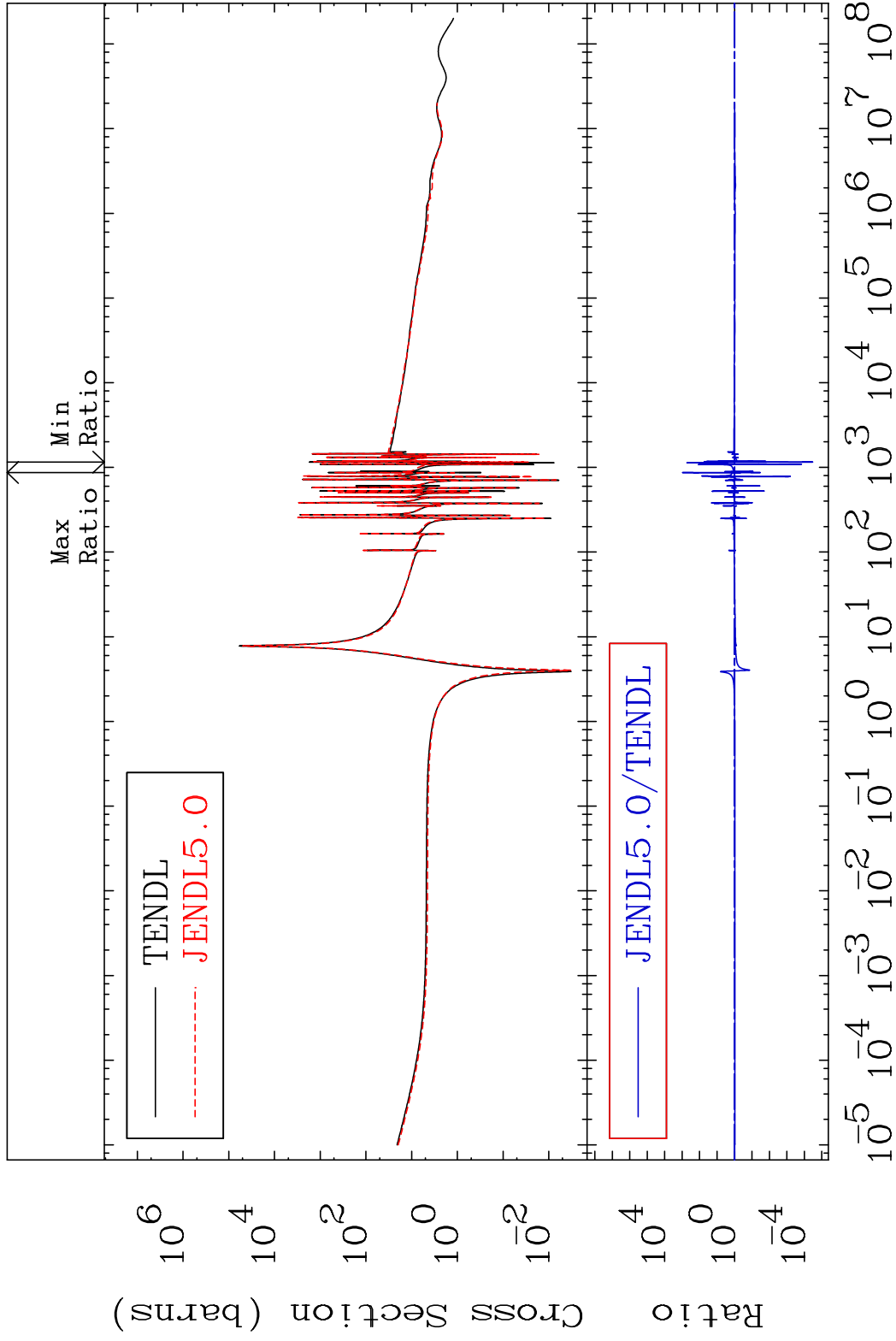
72-Hf-178

MAT 7237

Elastic

72-Hf-178

Cross Section -100.0 To 9999. %



2

Incident Energy (eV)

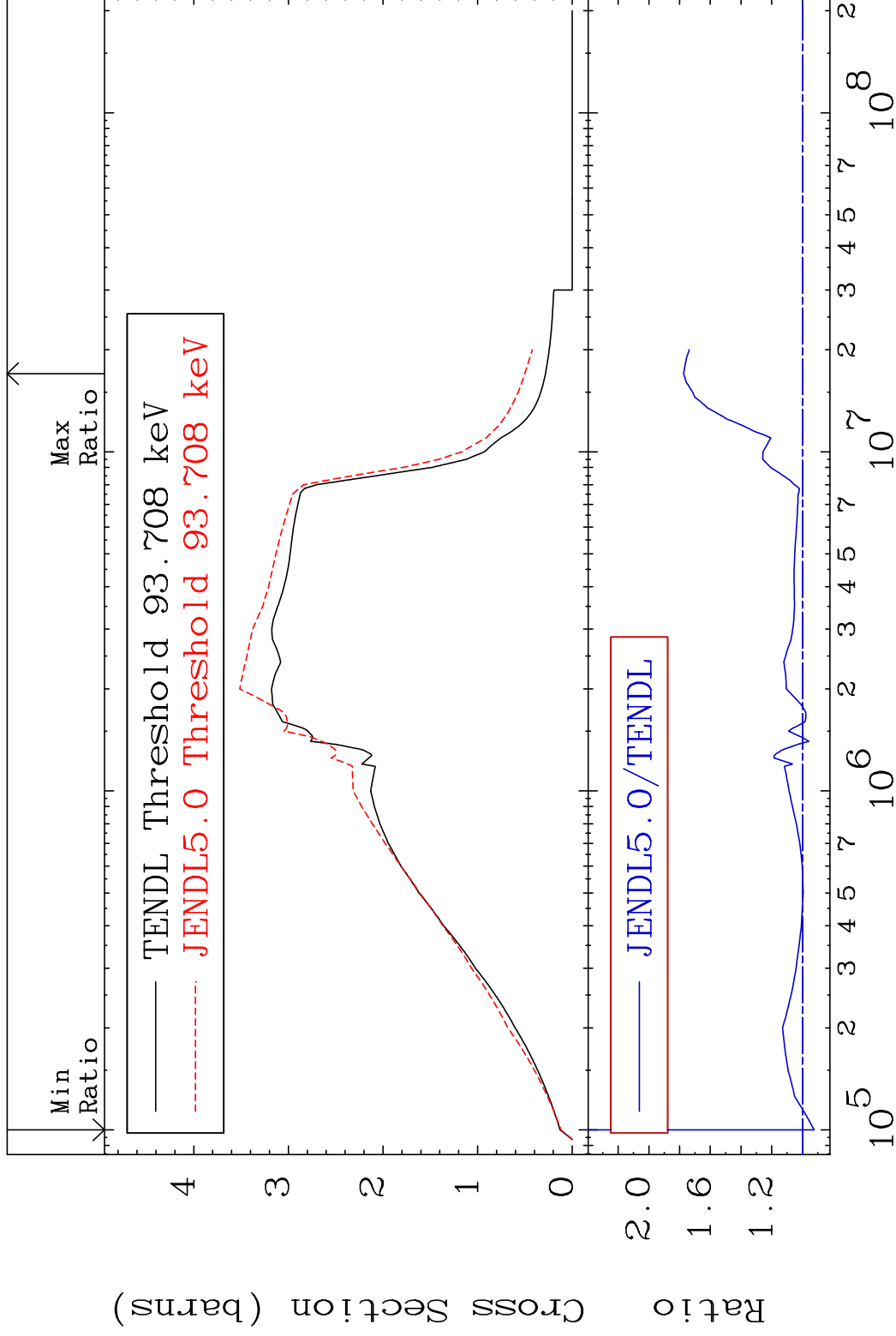
72-Hf-178

MAT 7237

Inelastic

72-Hf-178

Cross Section -7.605 To 77.34 %



3

Incident Energy (eV)

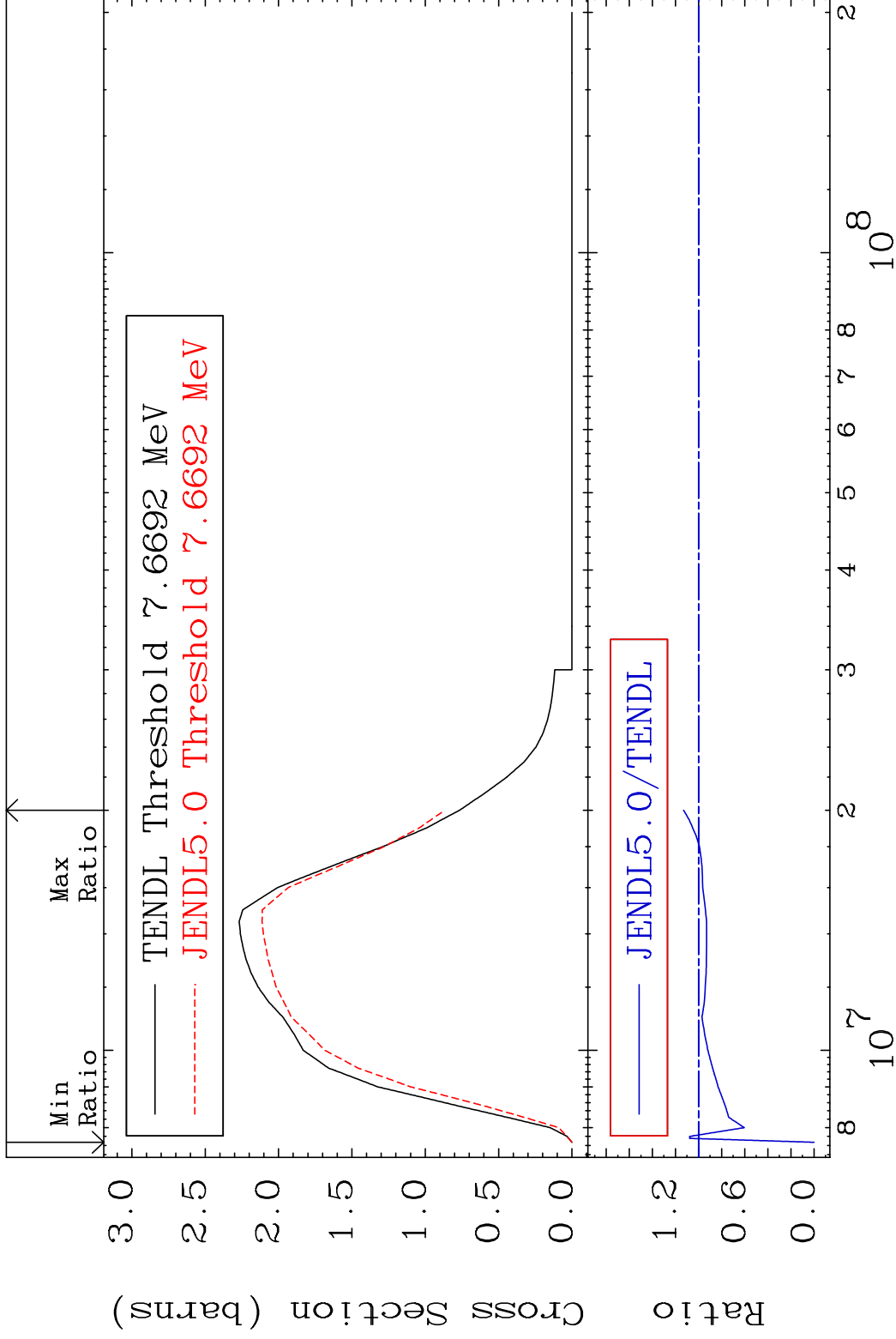
72-Hf-178

MAT 7237

(n,2n)

72-Hf-178

Cross Section -100.0 To 13.09 %



4

Incident Energy (eV)

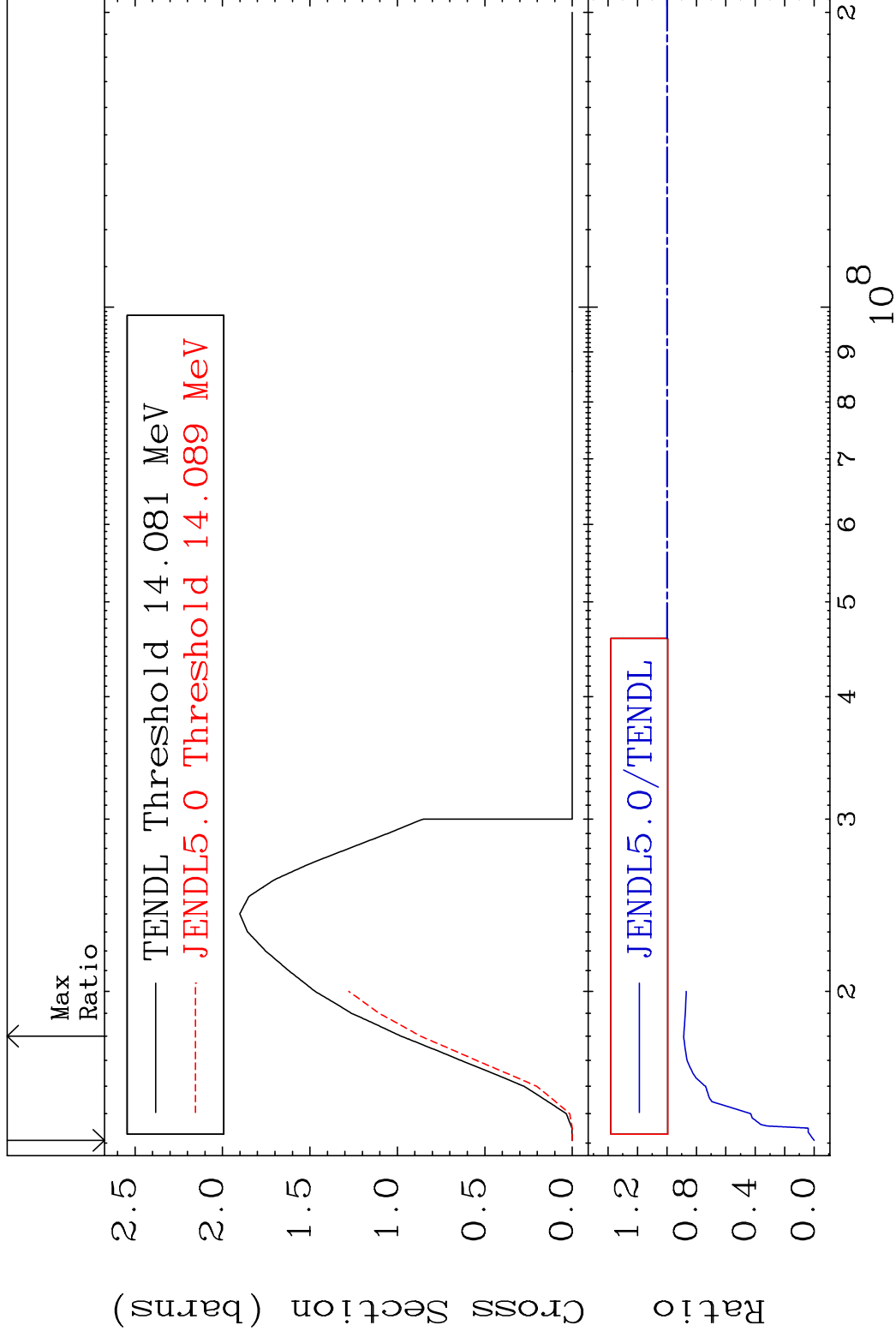
72-Hf-178

MAT 7237

(n,3n)

72-Hf-178

Cross Section -100.0 To -11.36%



5

Incident Energy (eV)

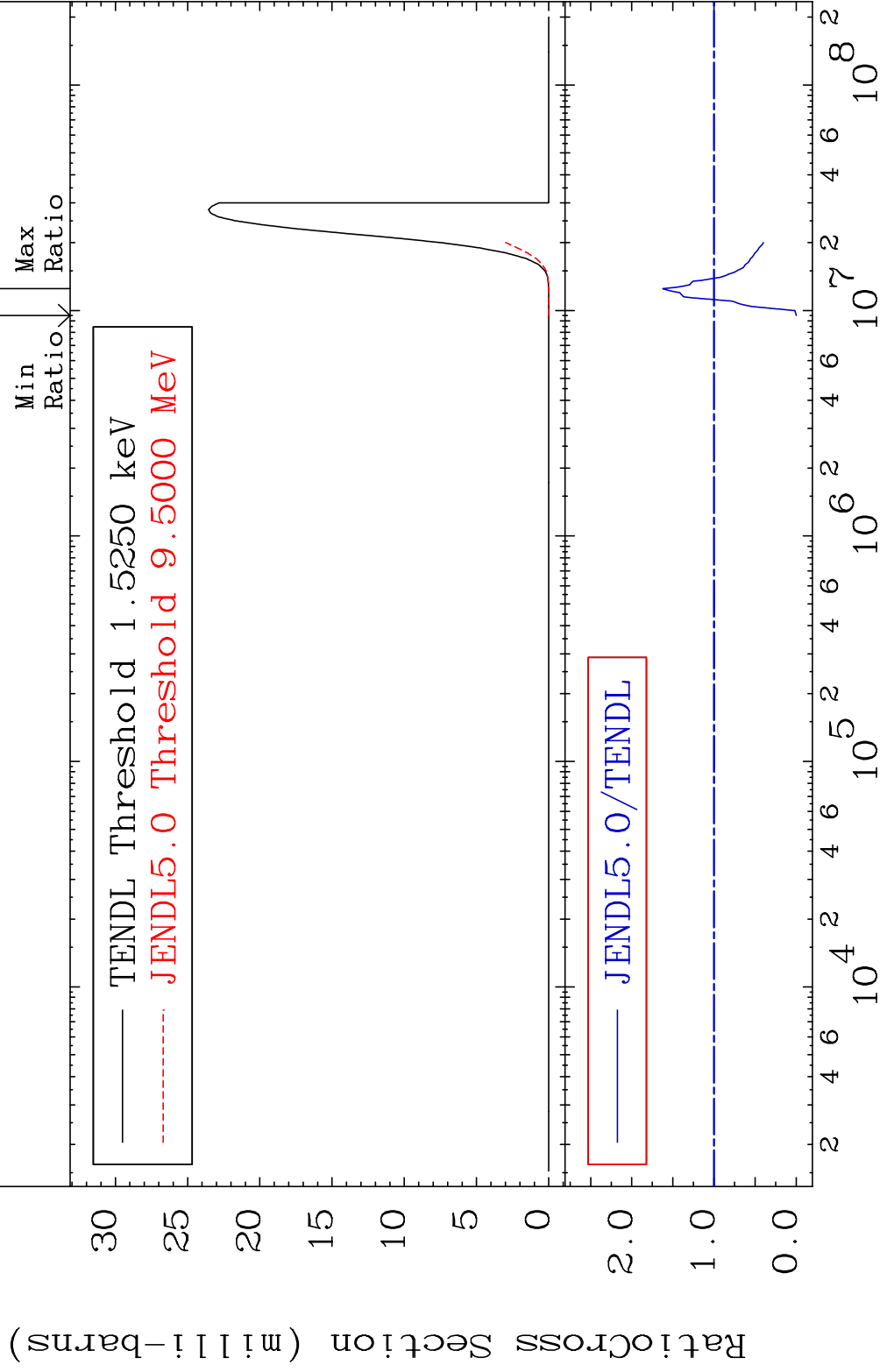
72-Hf-178

MAT 7237

(n, n')  $\alpha$

72-Hf-178

Cross Section -100.0 To 62.35 %



6

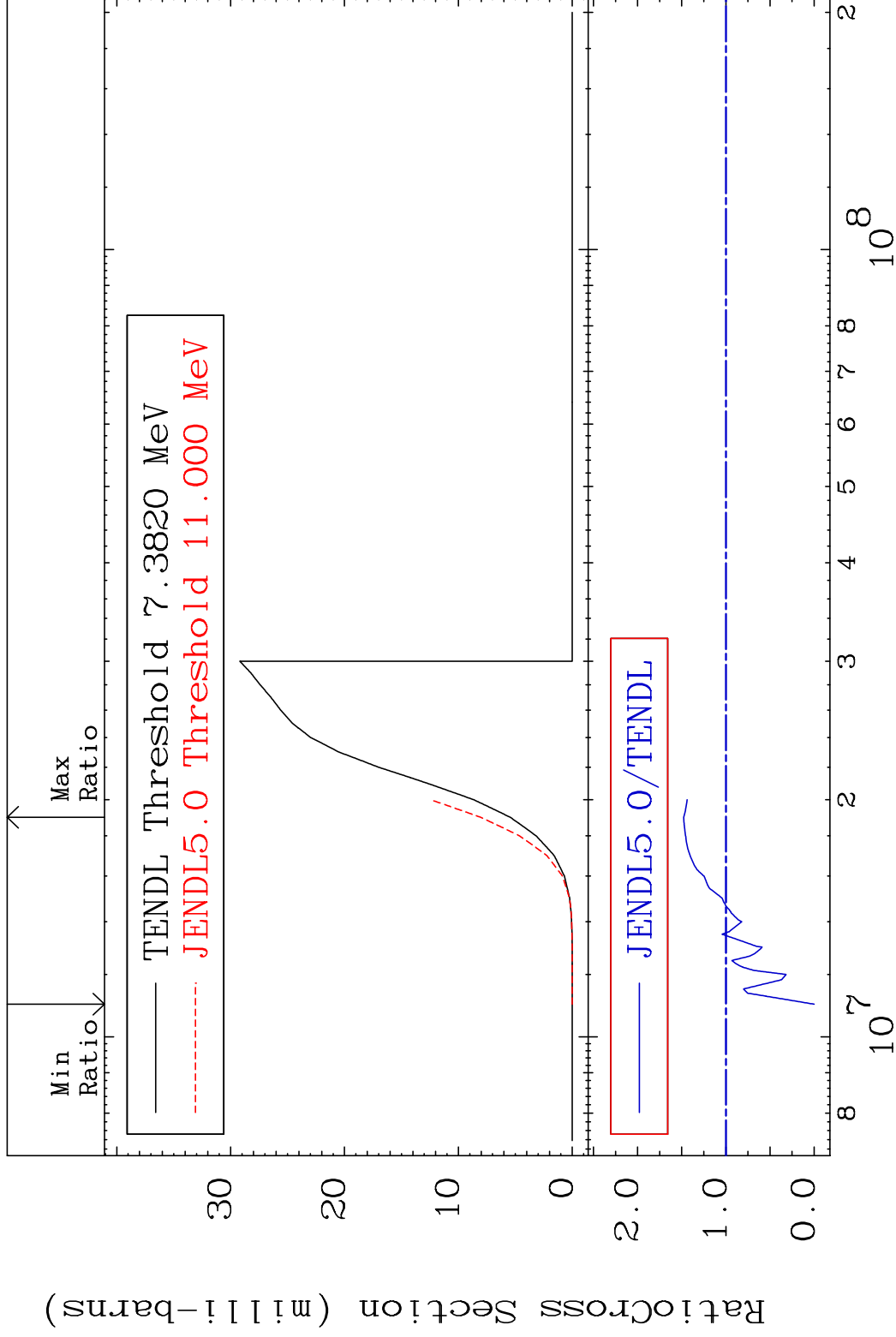
Incident Energy (eV)

72-Hf-178

MAT 7237

(n, n') p 72-Hf-178

Cross Section -100.0 To 47.83 %



7

Incident Energy (eV)

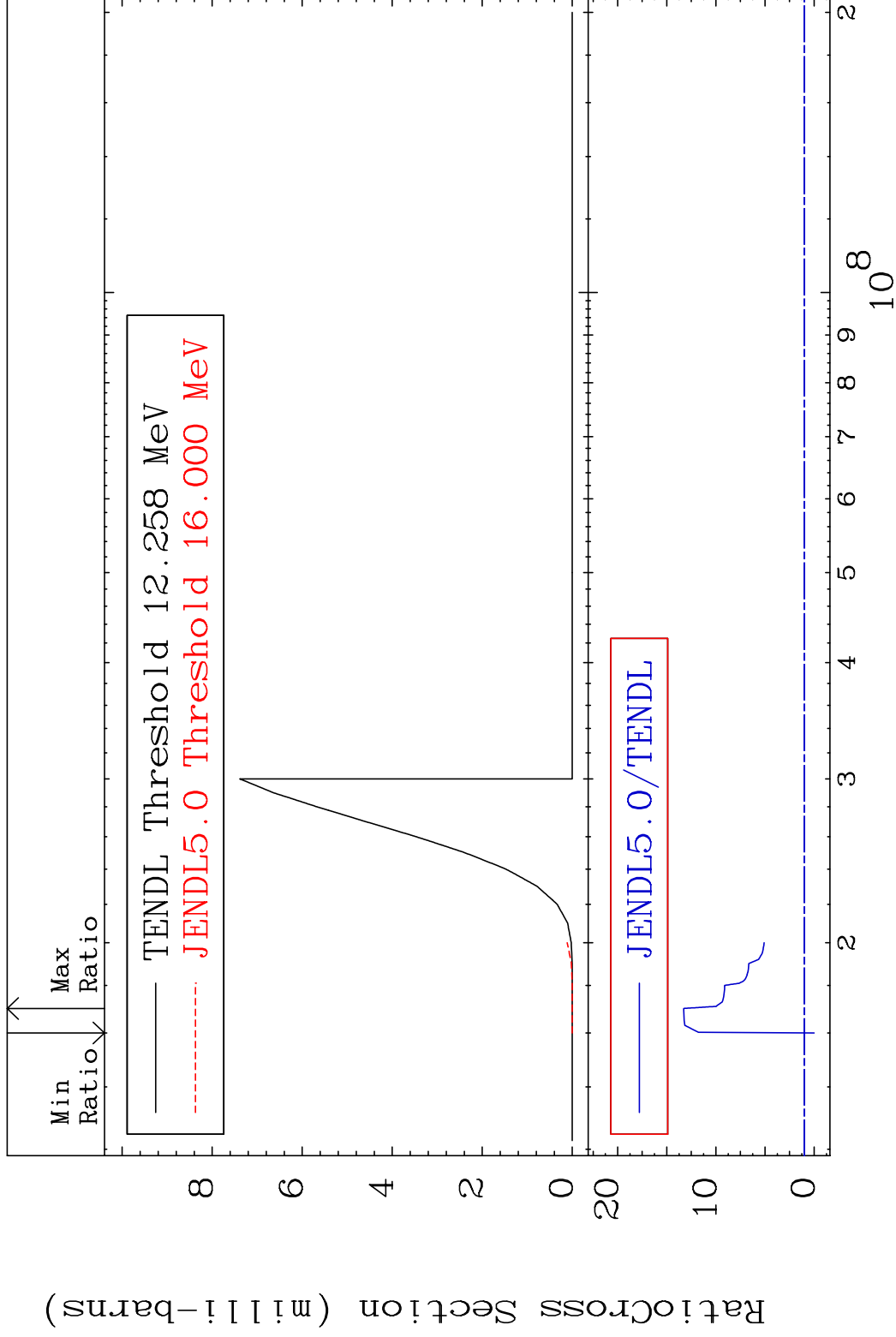
72-Hf-178

MAT 7237

(n, n') d

72-Hf-178

Cross Section -100.0 To 1228. %

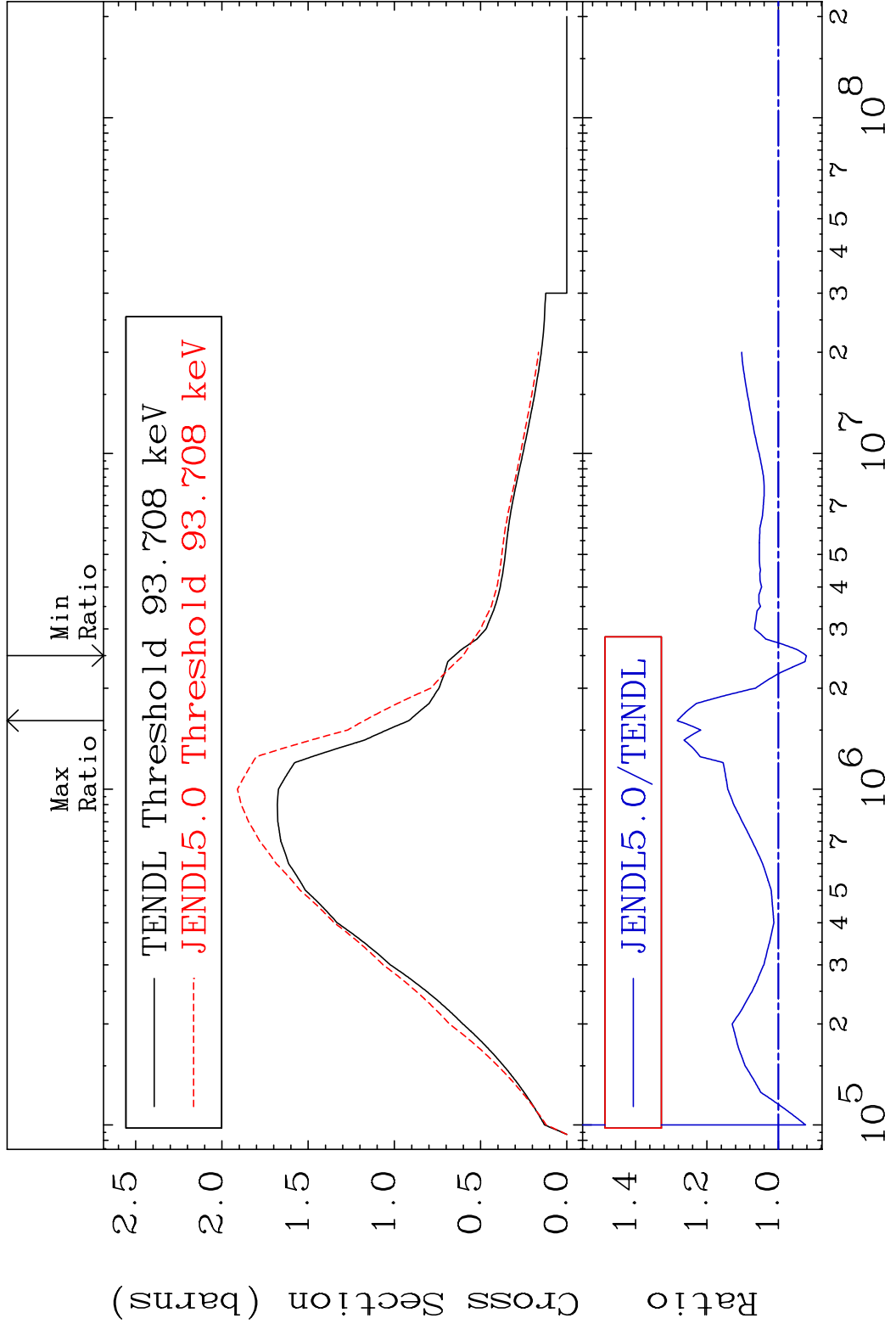


8

Incident Energy (eV)

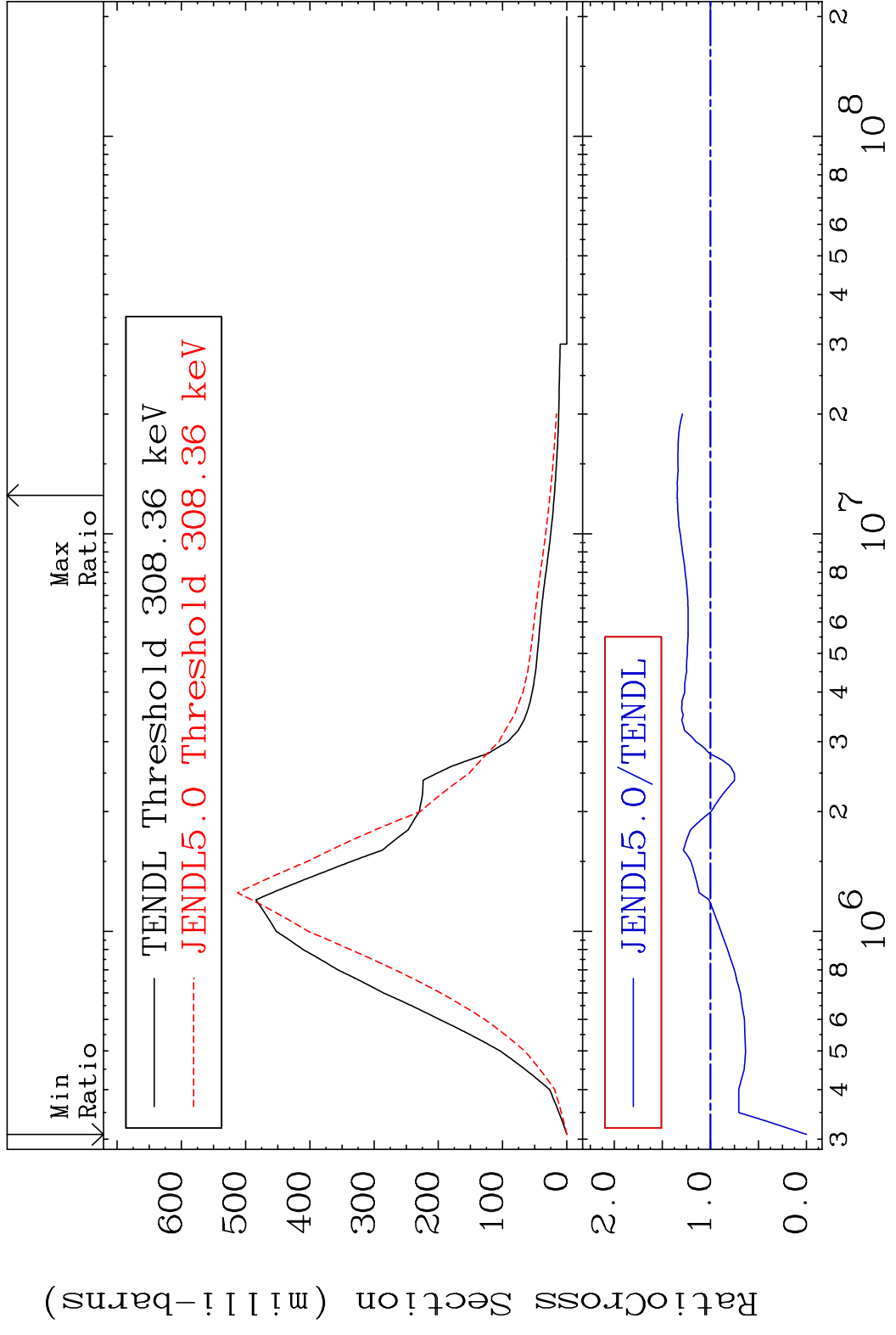
72-Hf-178

MAT 7237 MT= 51 (n, n') Level 72-Hf-178  
 Cross Section -7.830 To 28.34 %



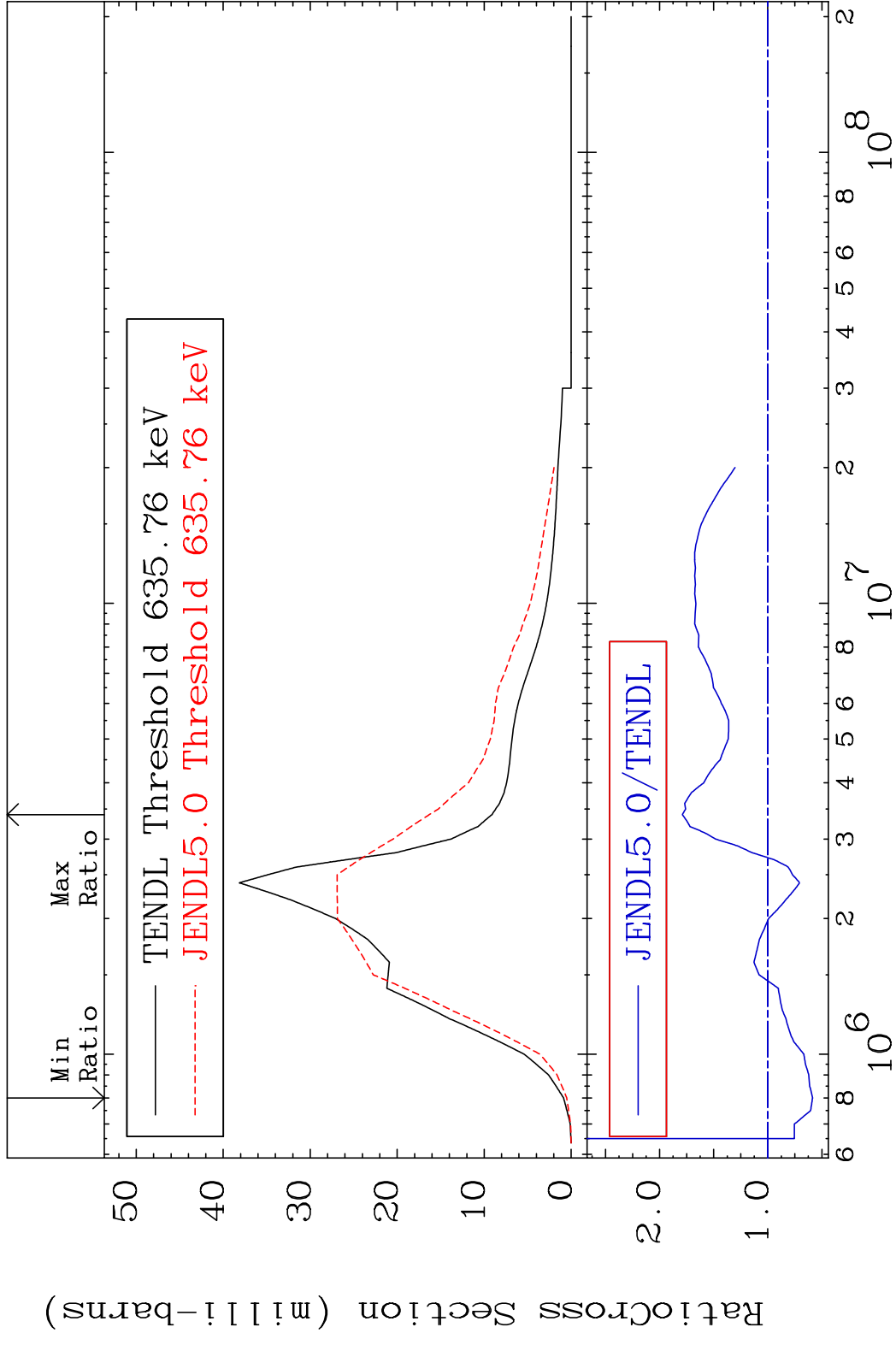
9 Incident Energy (eV) 72-Hf-178

MAT 7237 MT= 52 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 34.59 %



10 Incident Energy (eV) 72-Hf-178

MAT 7237 MT= 53 (n, n') Level 72-Hf-178  
 Cross Section -41.41 To 78.98 %

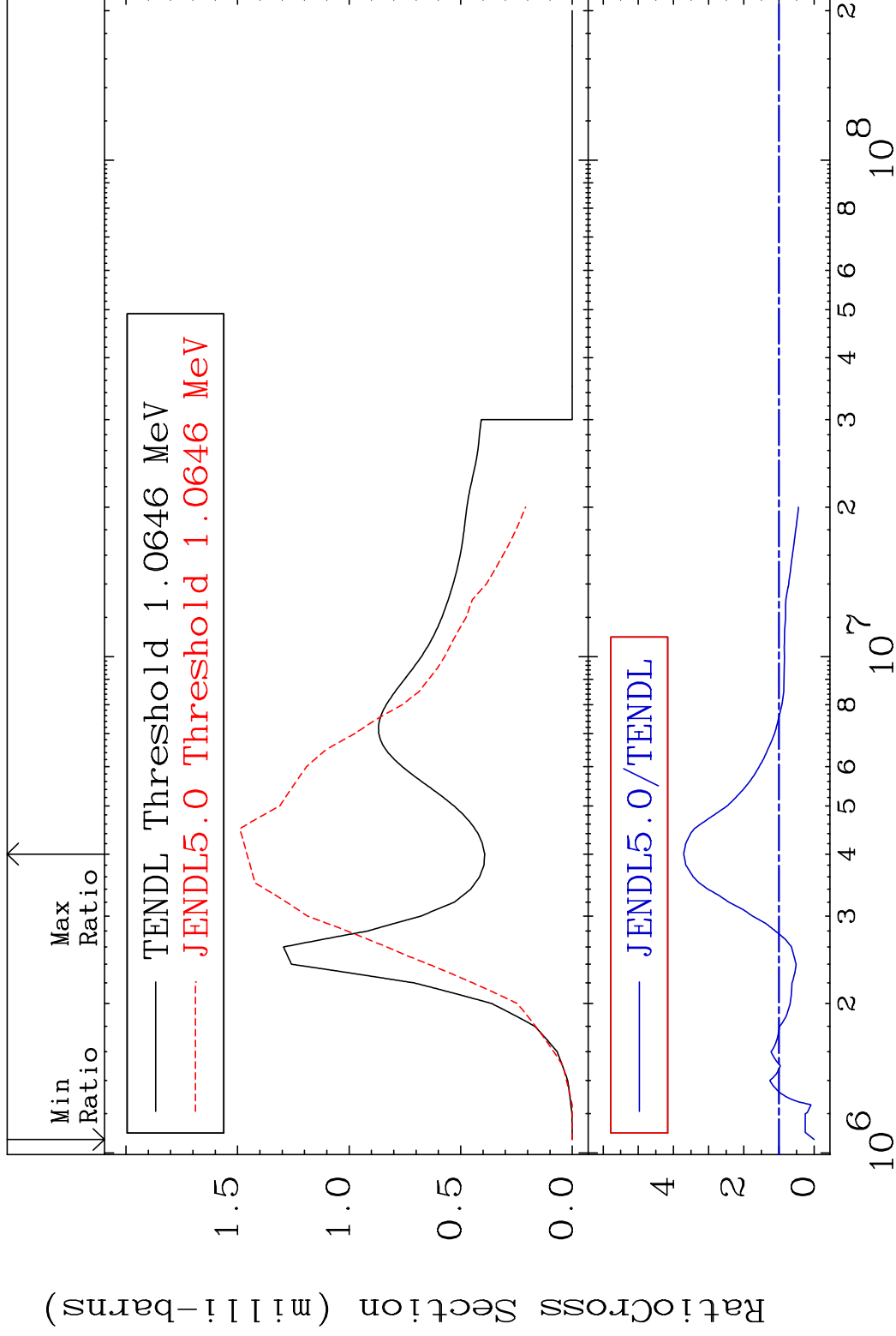


MAT 7237

MT= 54 (n,n') Level

72-Hf-178

Cross Section -100.0 To 271.0 %

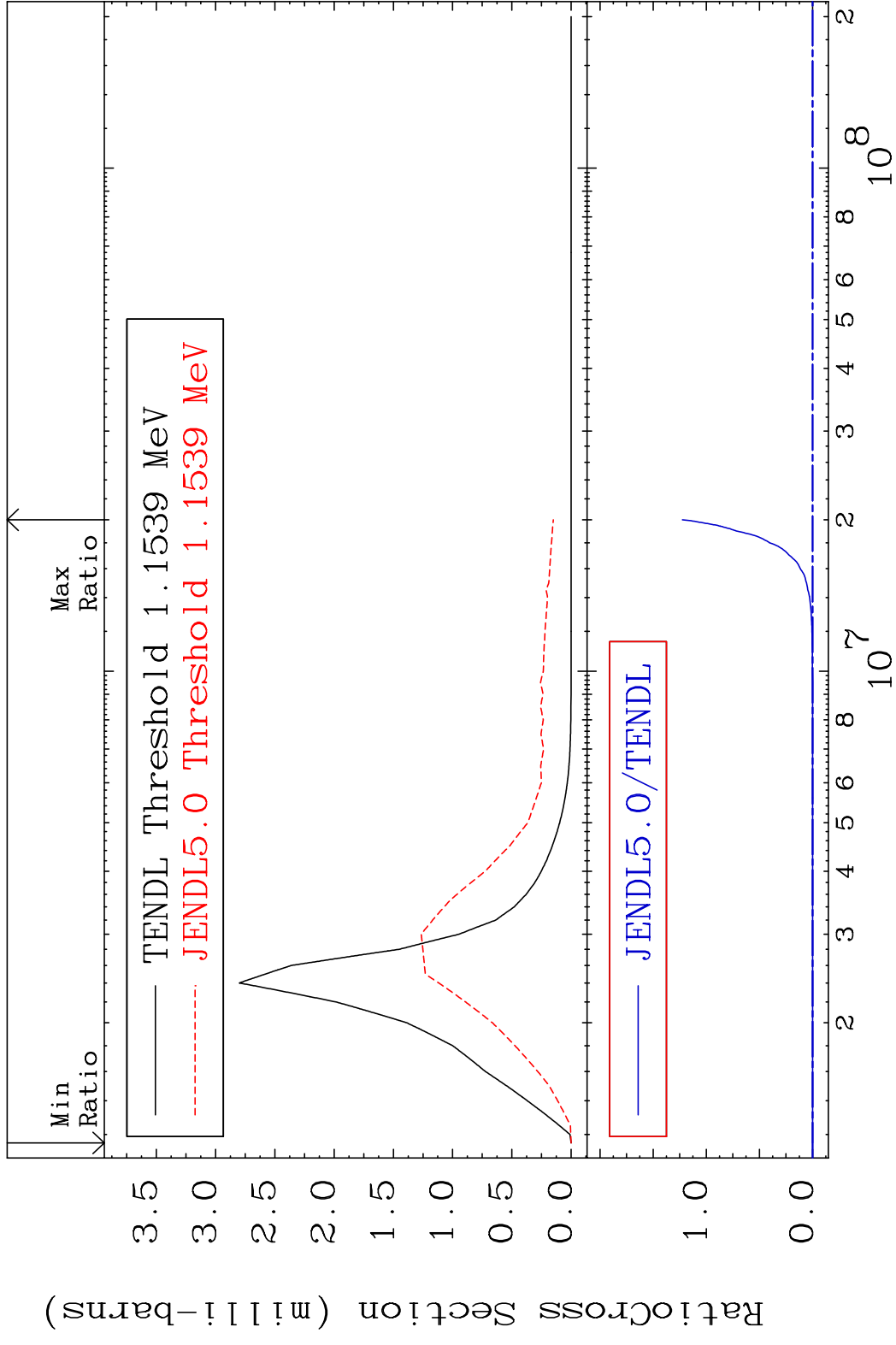


12

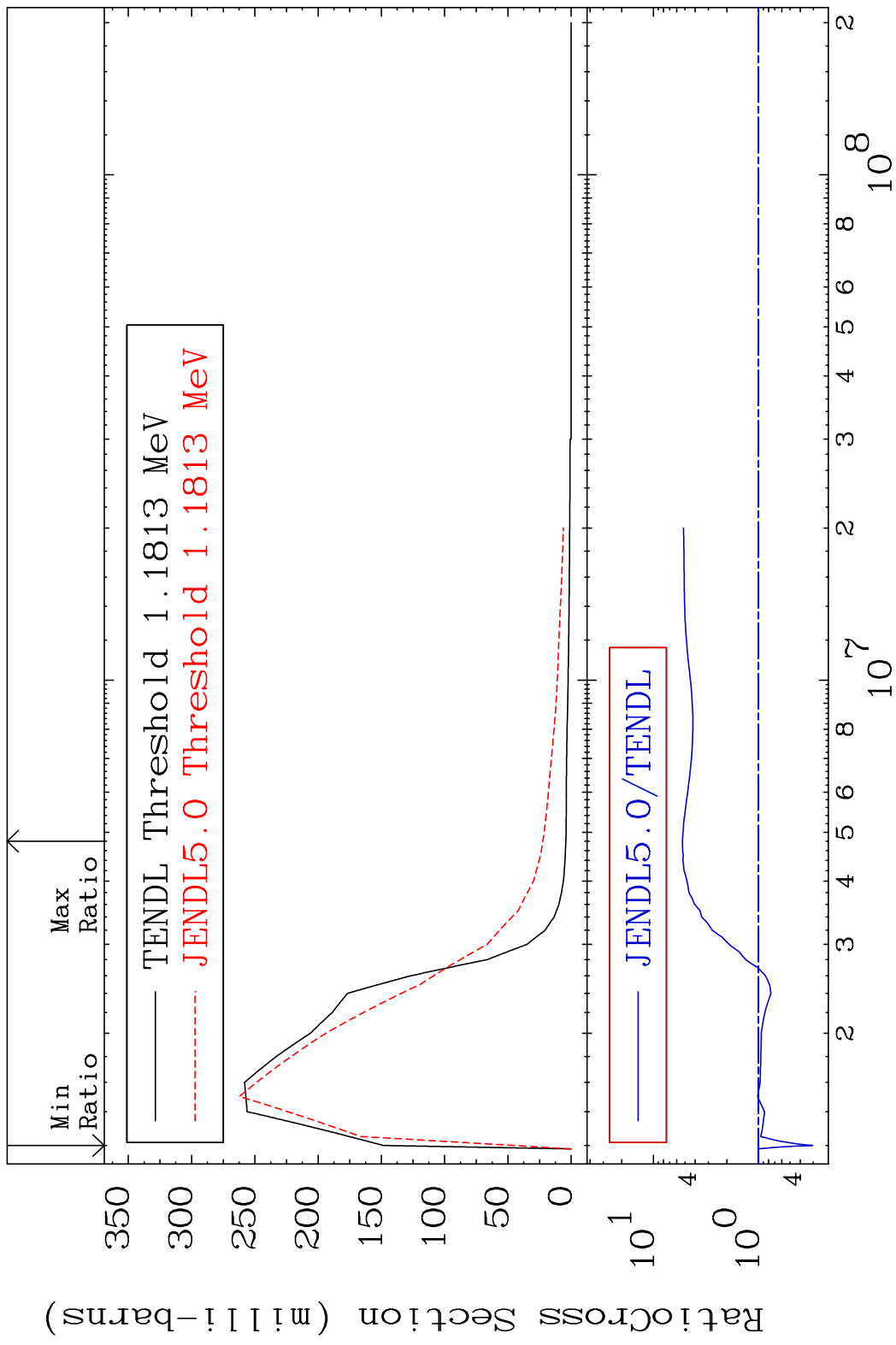
Incident Energy (eV)

72-Hf-178

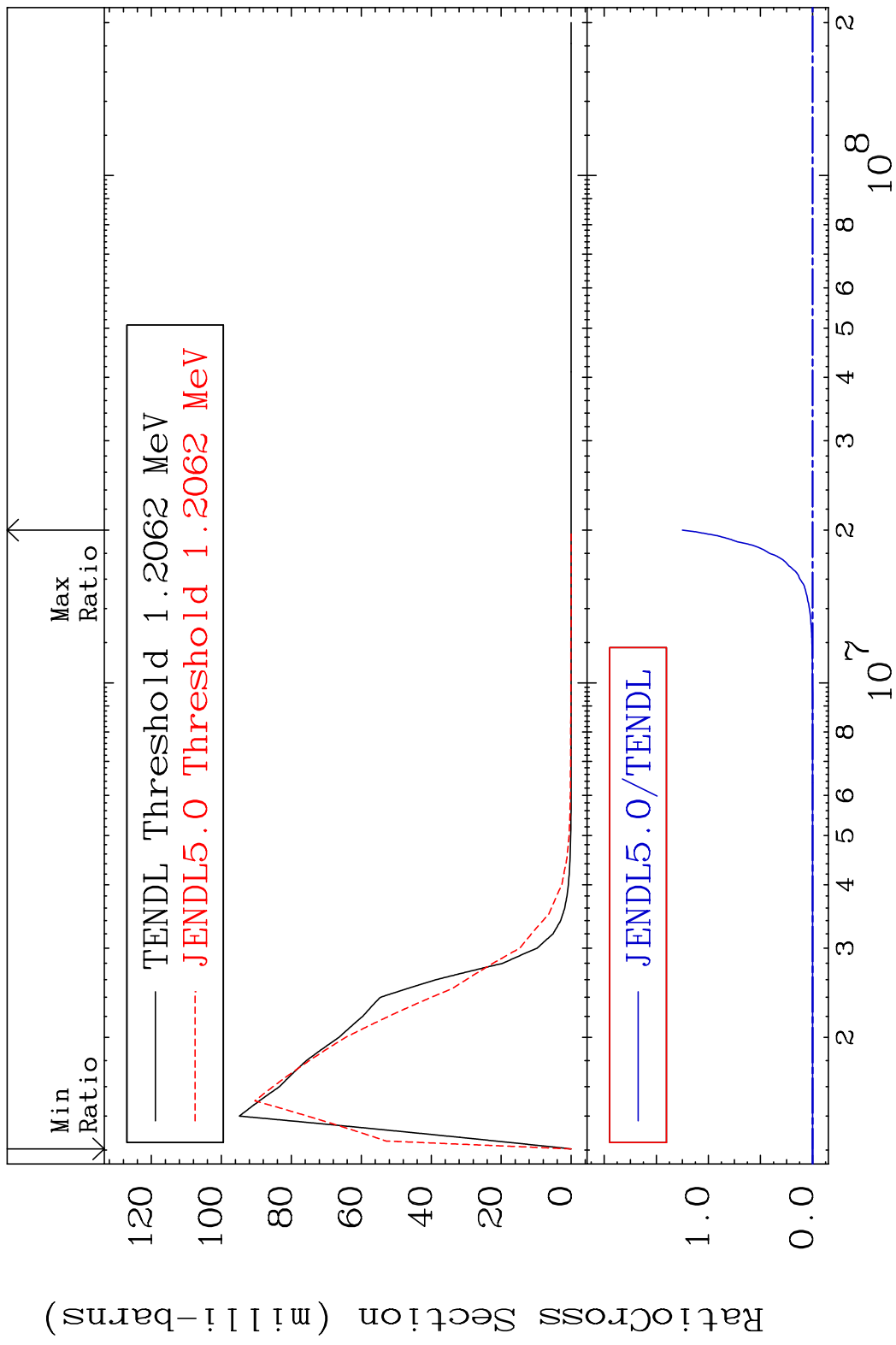
MAT 7237 MT= 55 (n,n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



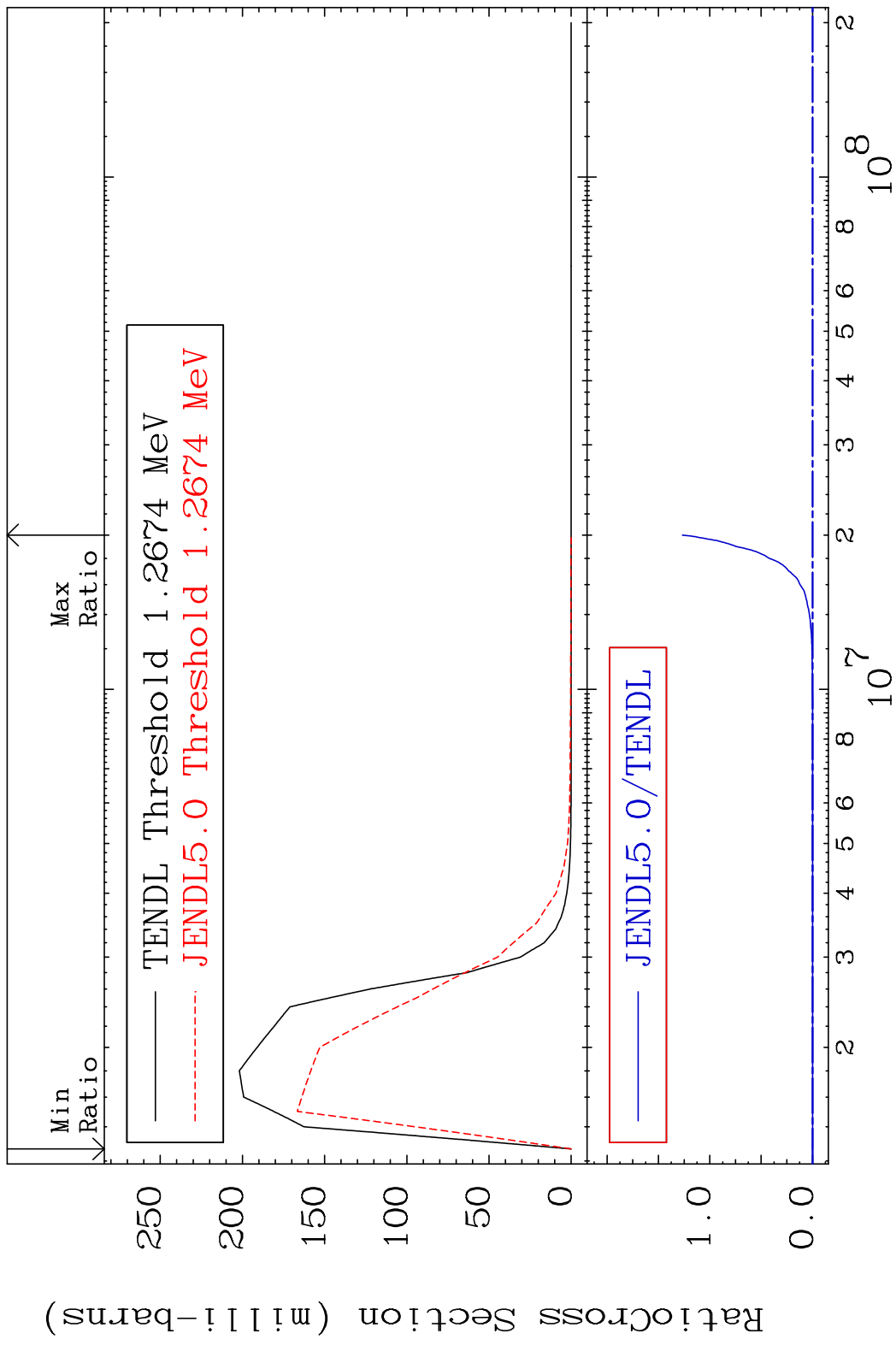
MAT 7237 MT= 56 (n,n') Level 72-Hf-178  
 Cross Section -69.45 To 429.8 %



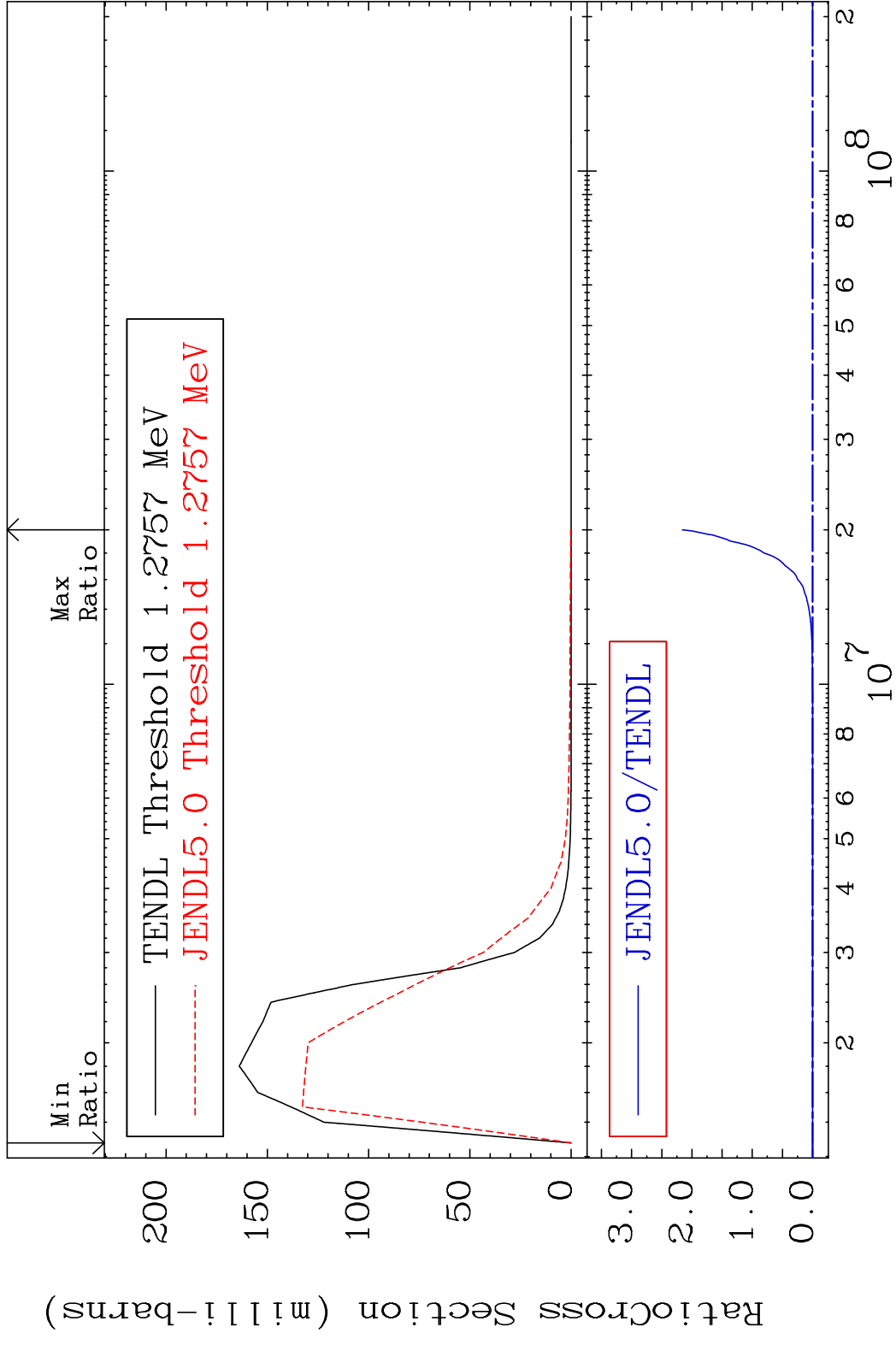
MAT 7237 MT= 57 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



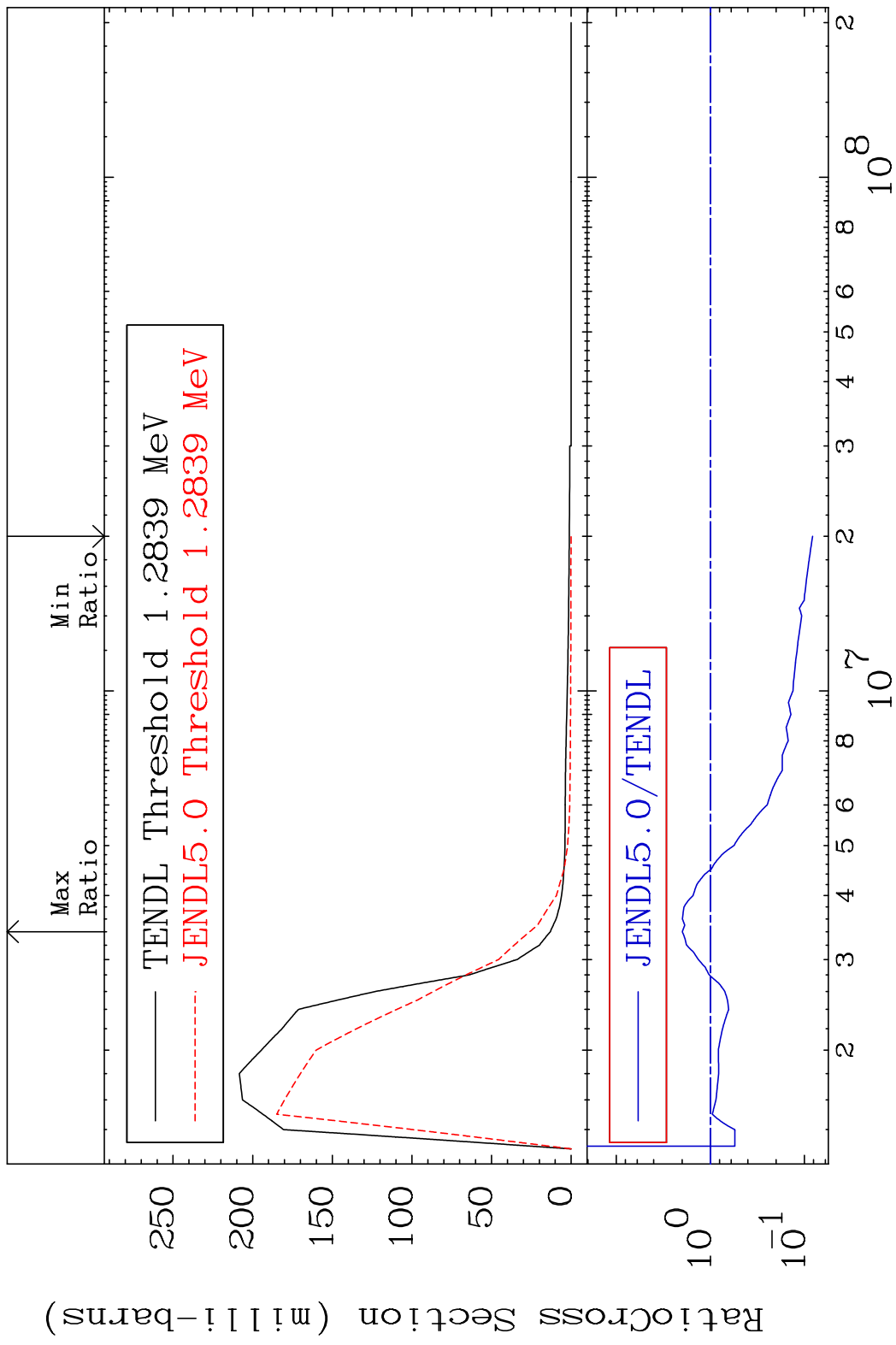
MAT 7237 MT= 58 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



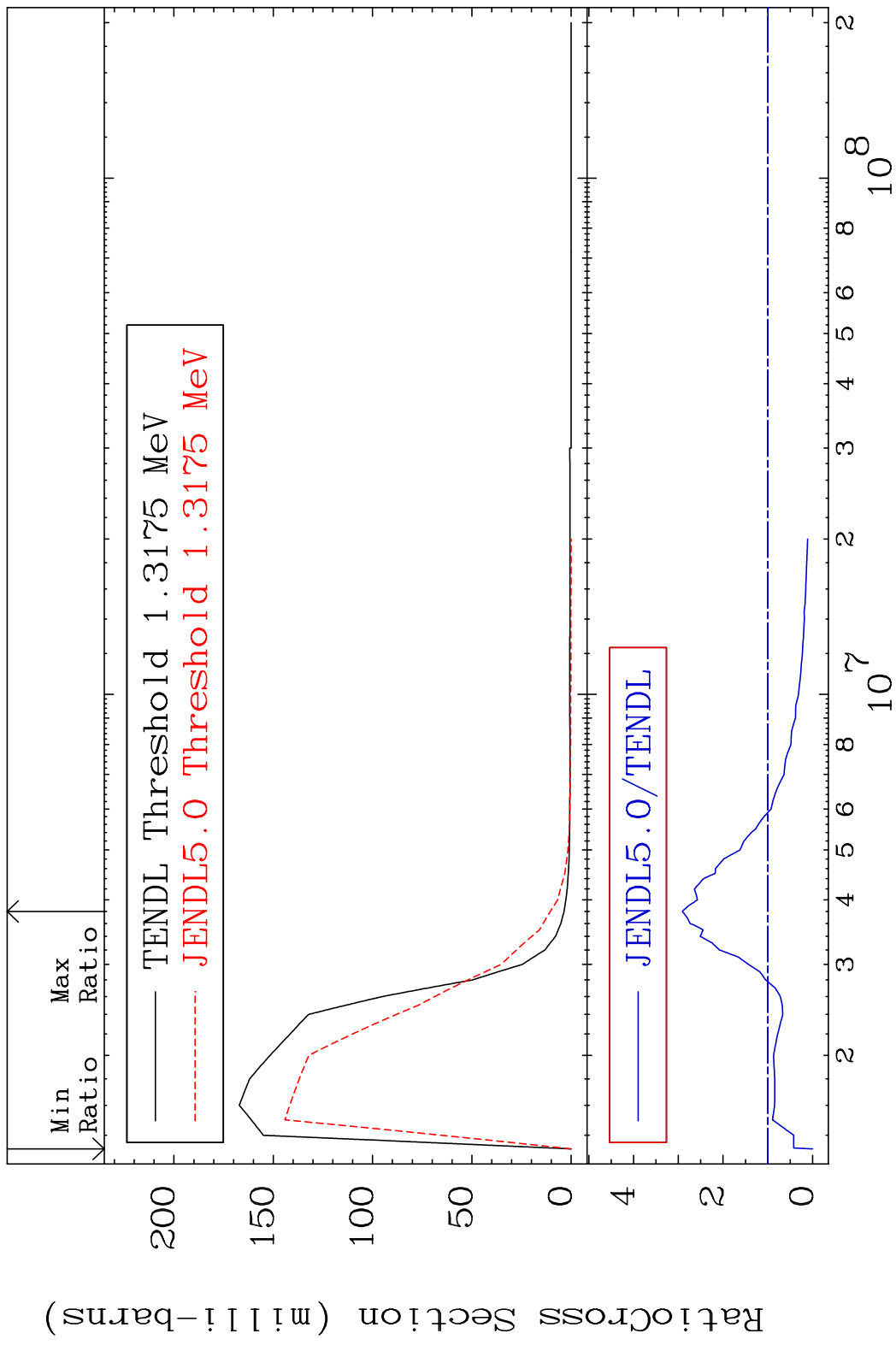
MAT 7237 MT= 59 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



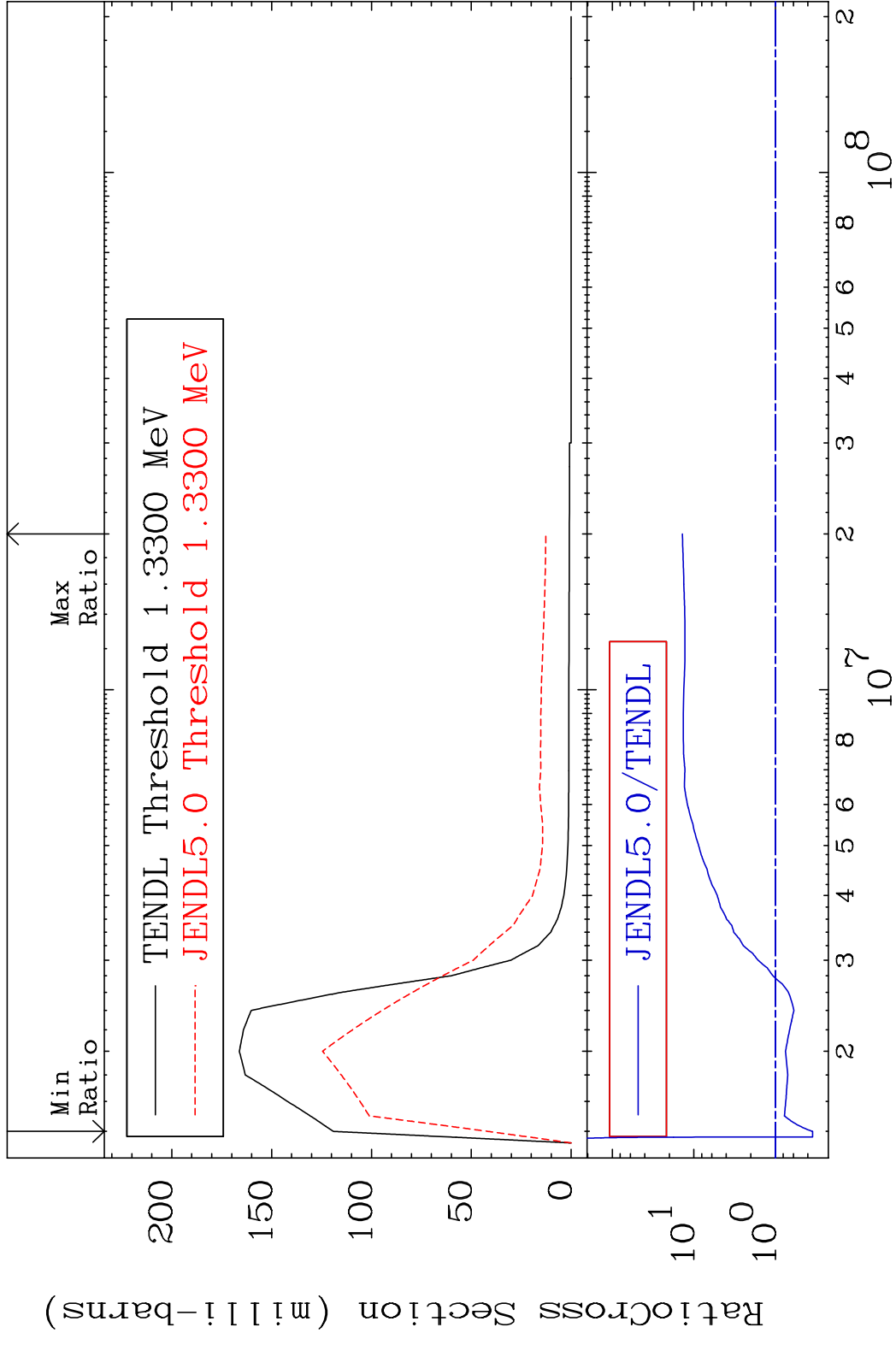
MAT 7237 MT= 60 (n, n') Level 72-Hf-178  
 Cross Section -91.79 To 98.58 %



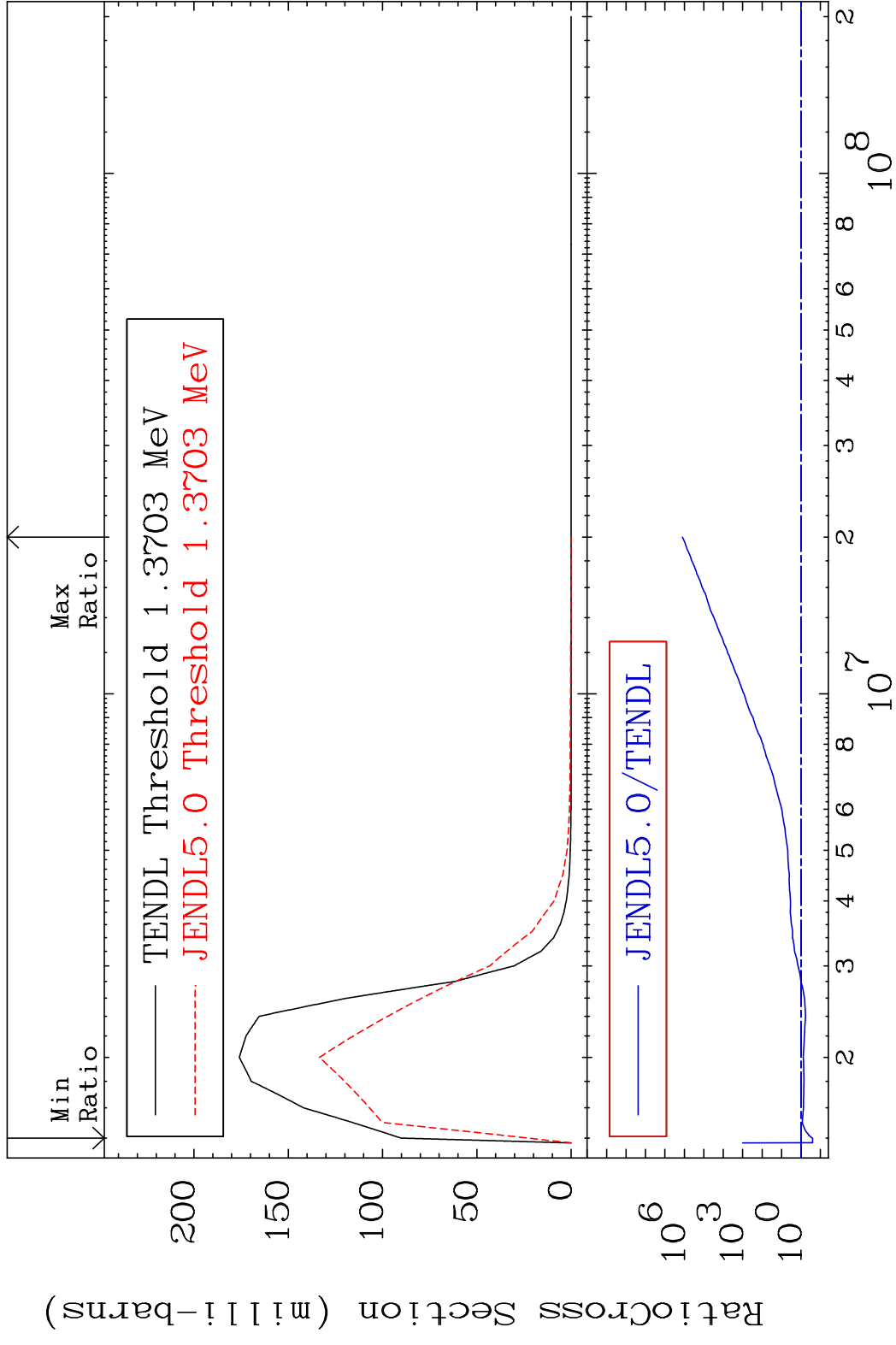
MAT 7237 MT= 61 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 191.1 %



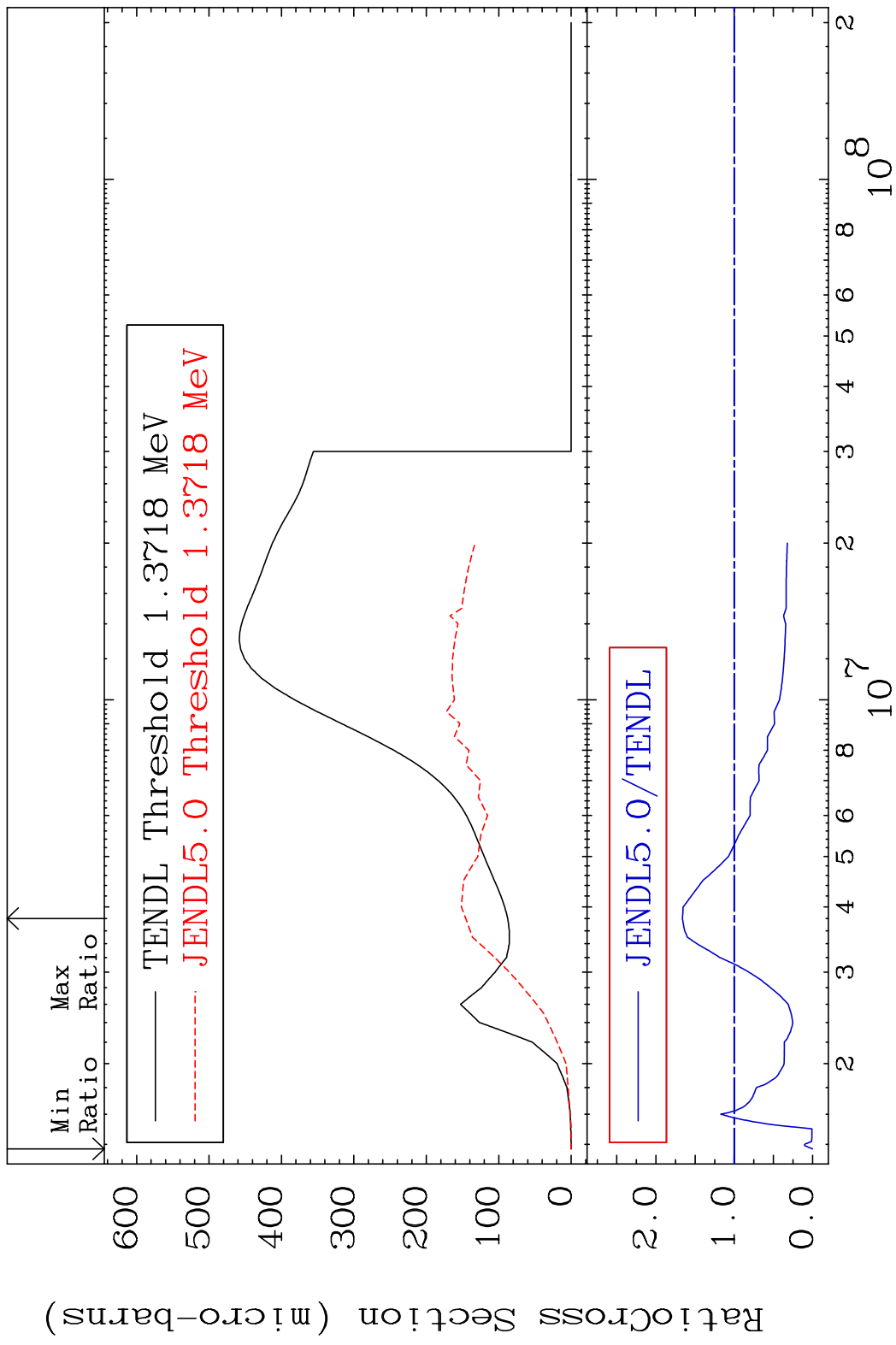
MAT 7237 MT= 62 (n, n') Level 72-Hf-178  
 Cross Section -65.06 To 1283. %



MAT 7237 MT= 63 (n, n') Level 72-Hf-178  
 Cross Section -74.56 To 9999. %



MAT 7237 MT= 64 (n,n') Level 72-Hf-178  
 Cross Section -100.0 To 66.30 %

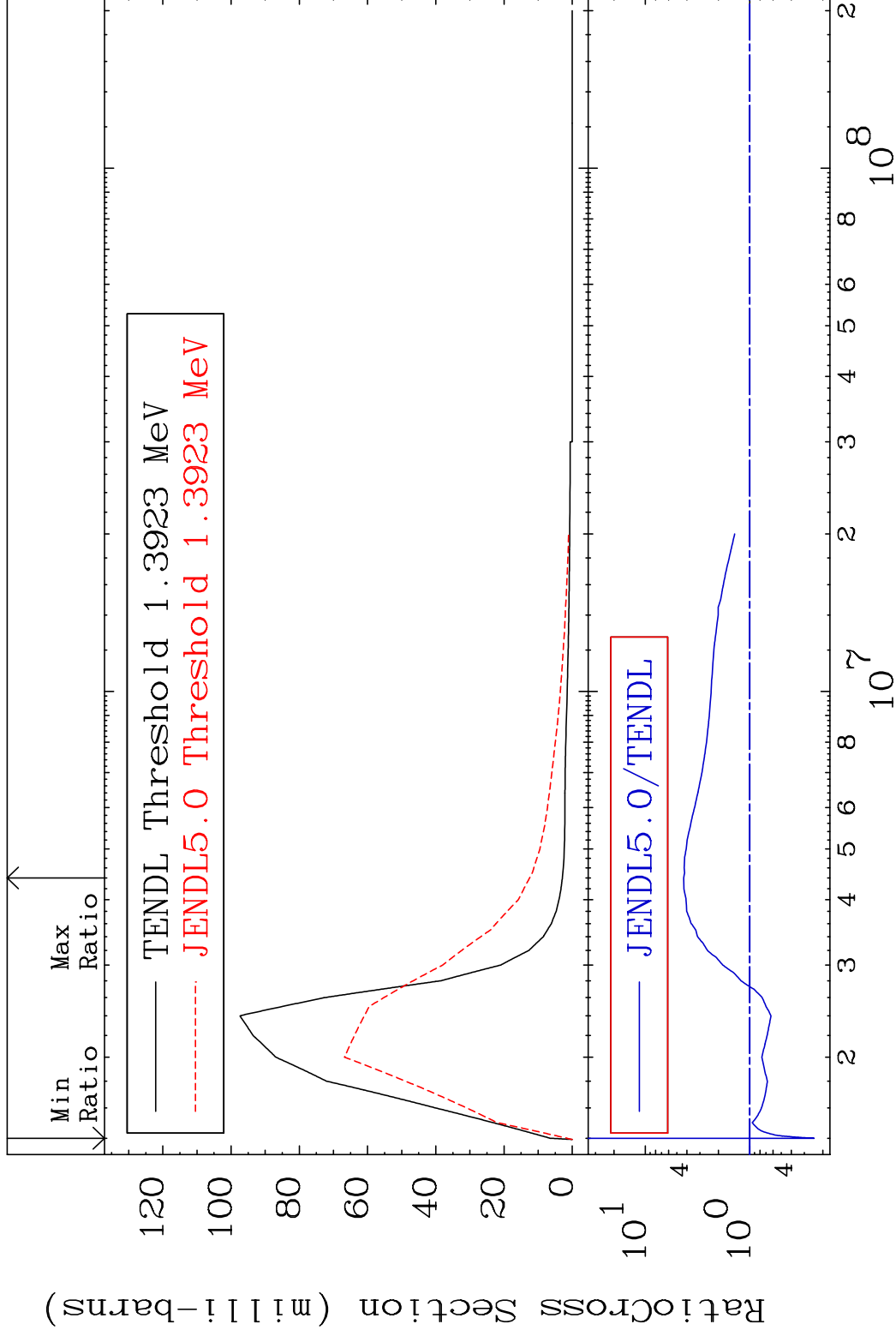


MAT 7237

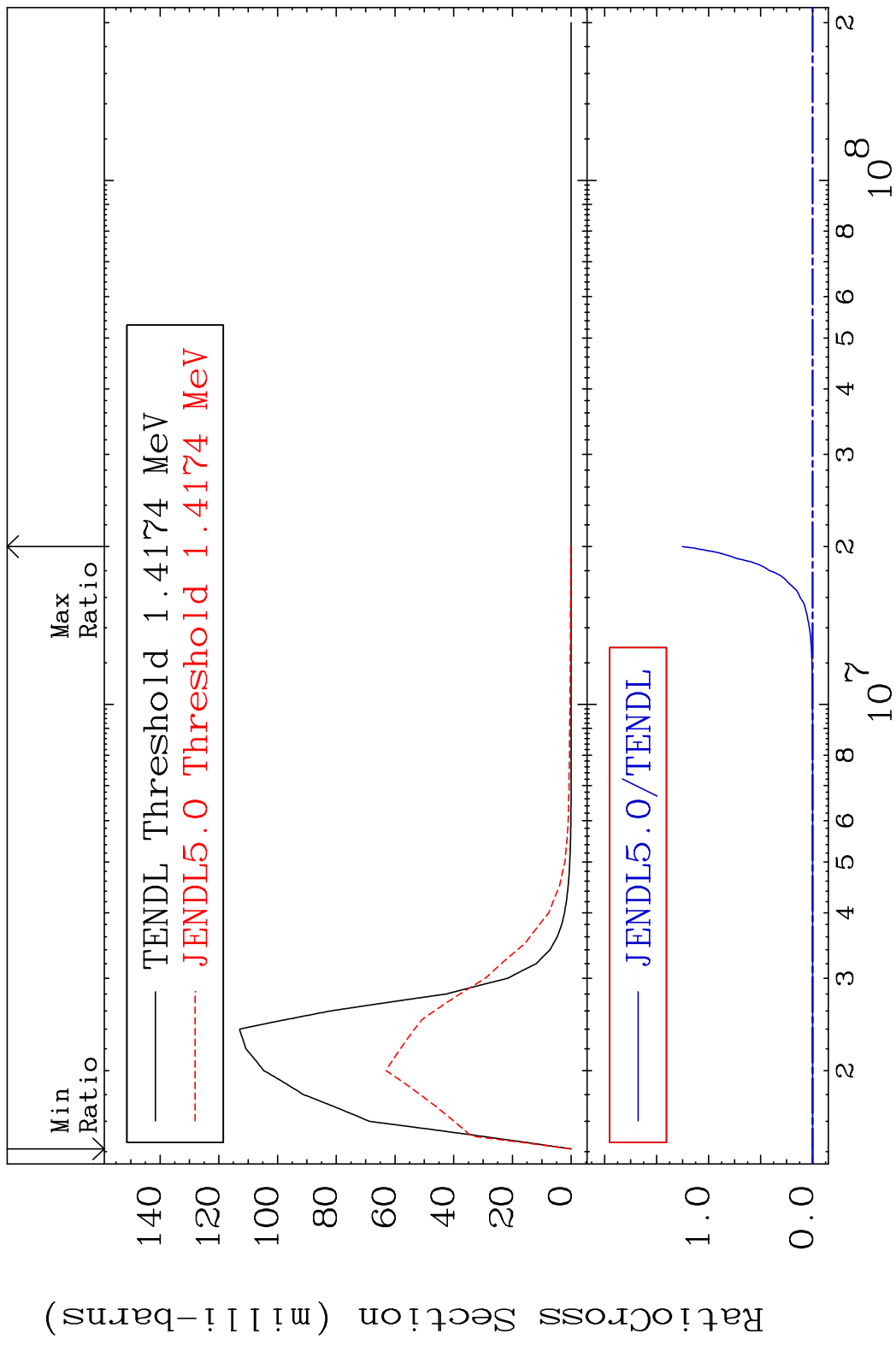
MT= 65 (n,n') Level

72-Hf-178

Cross Section -75.76 To 330.0 %



MAT 7237 MT= 66 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %

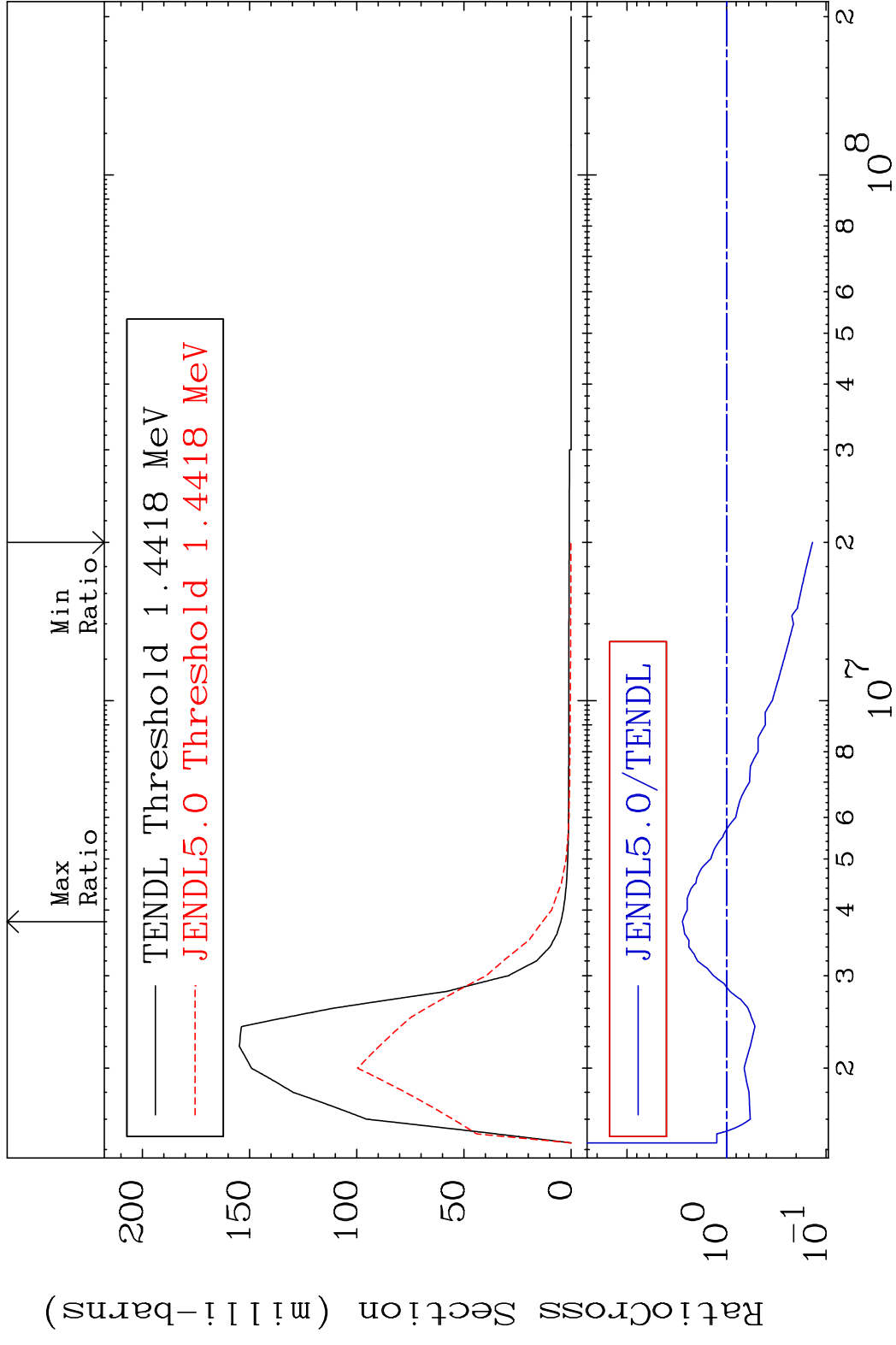


MAT 7237

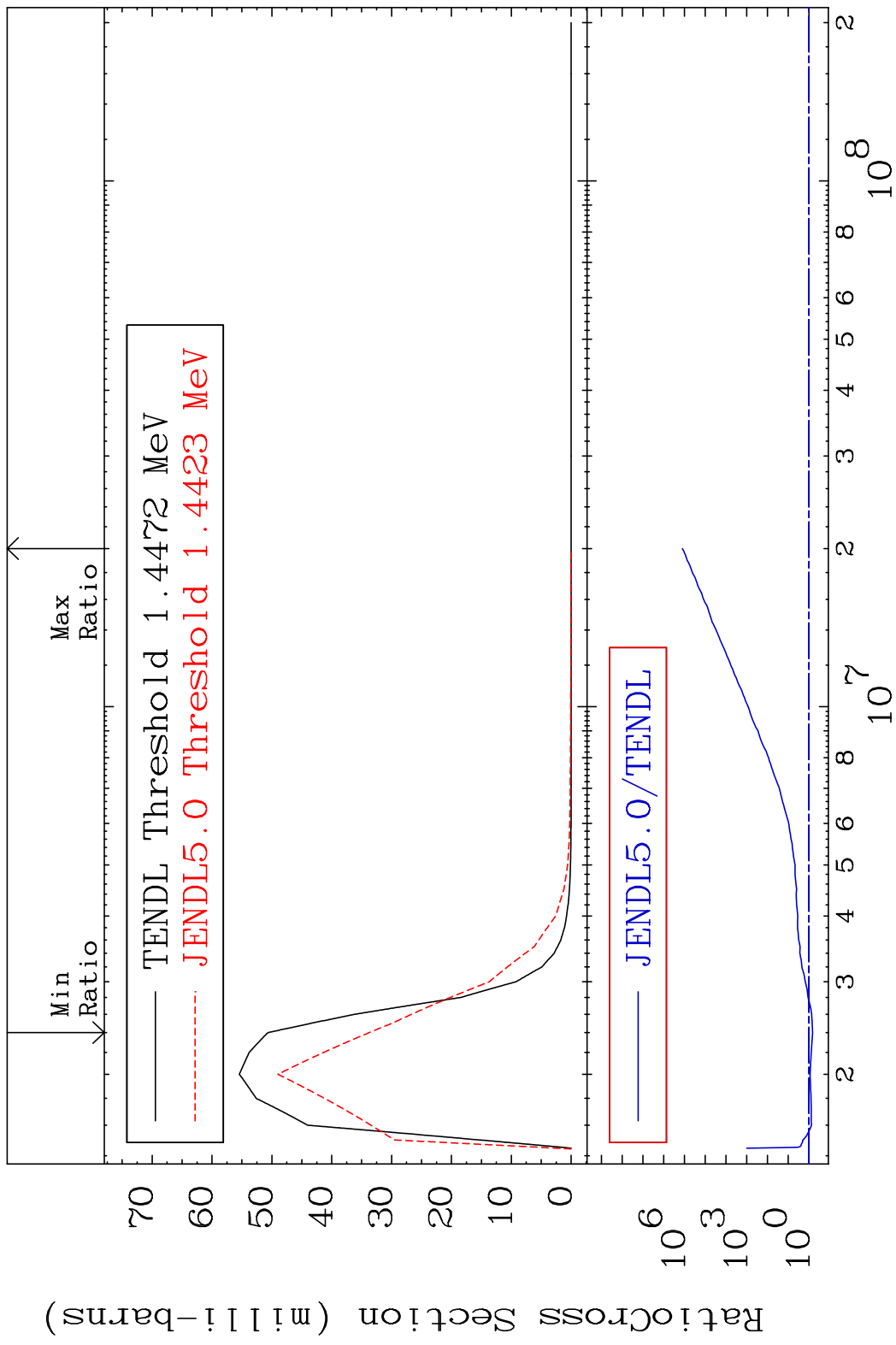
MT= 67 (n, n') Level

72-Hf-178

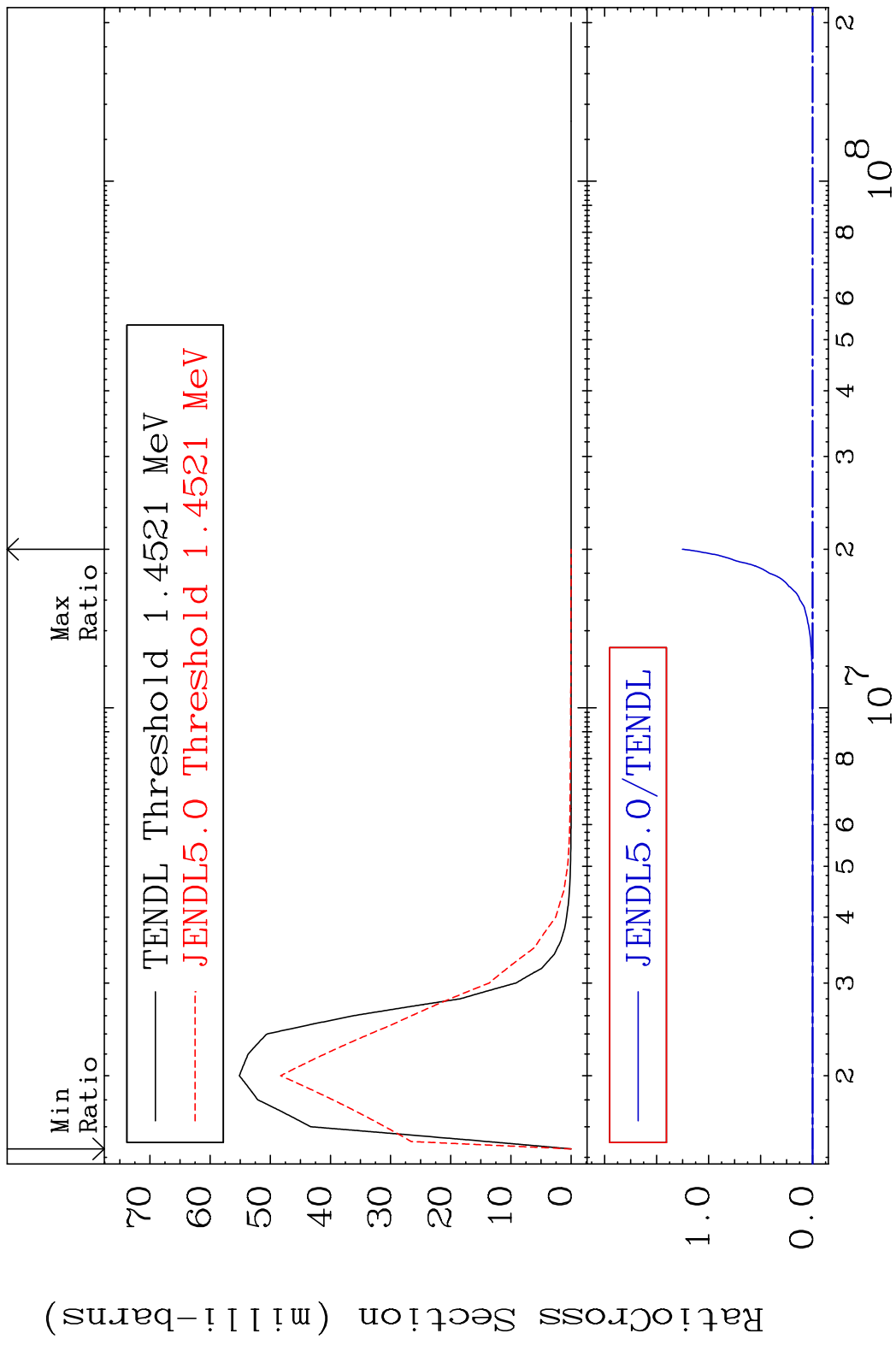
Cross Section -86.30 To 178.4 %



MAT 7237 MT= 68 (n, n') Level 72-Hf-178  
 Cross Section -33.38 To 9999. %



MAT 7237 MT= 69 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %

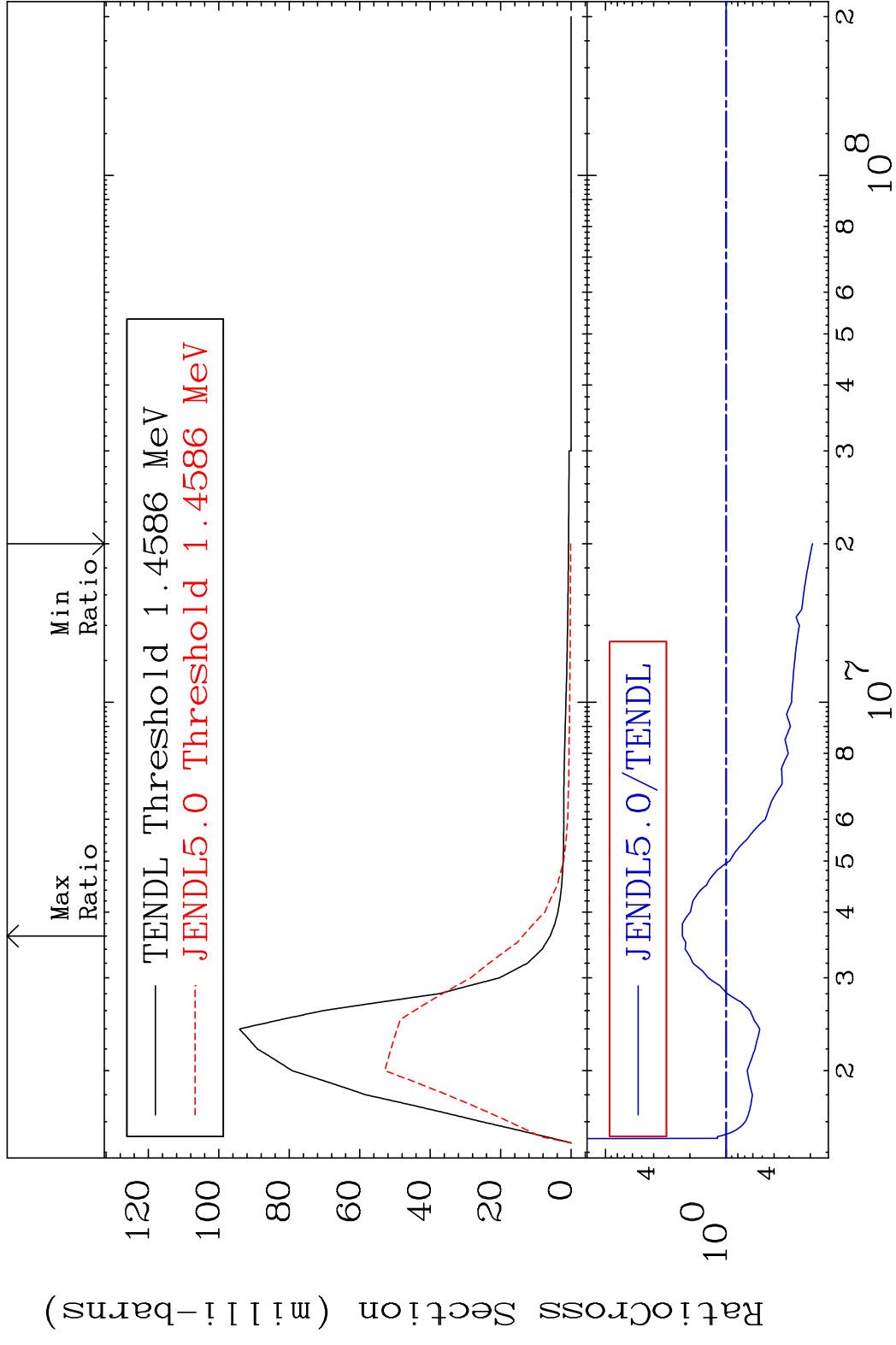


MAT 7237

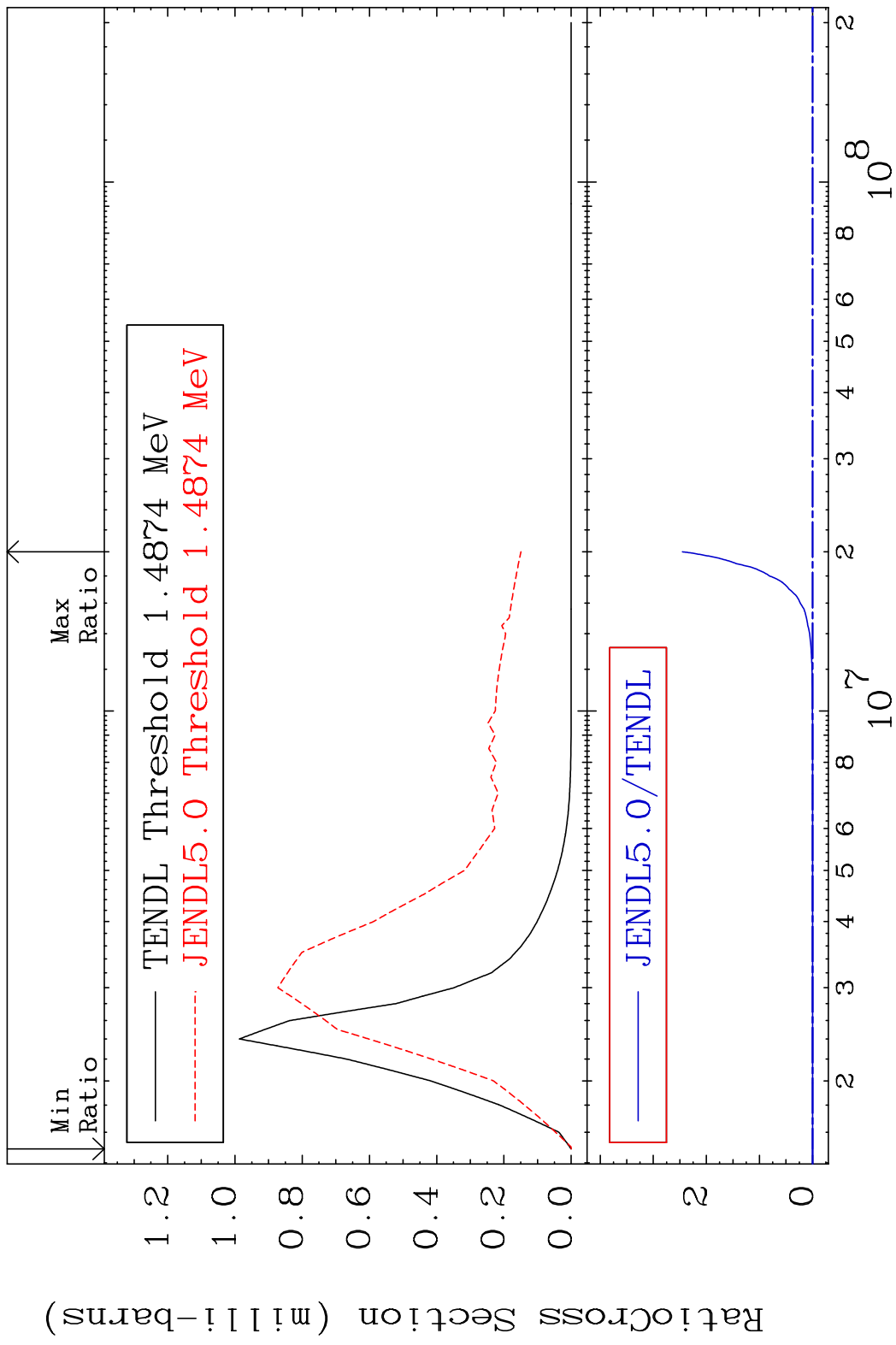
MT= 70 (n,n') Level

72-Hf-178

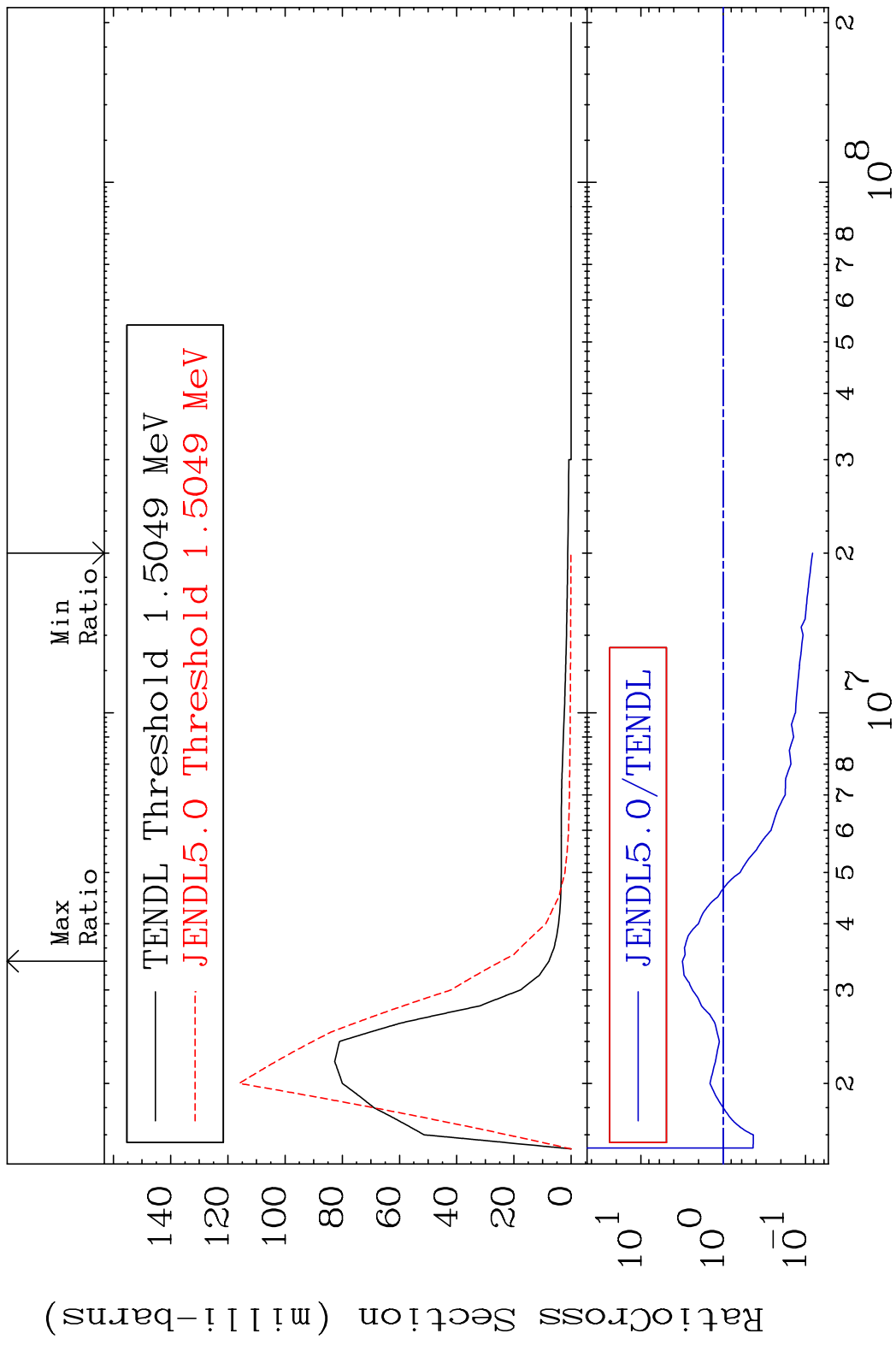
Cross Section -80.86 To 130.7 %



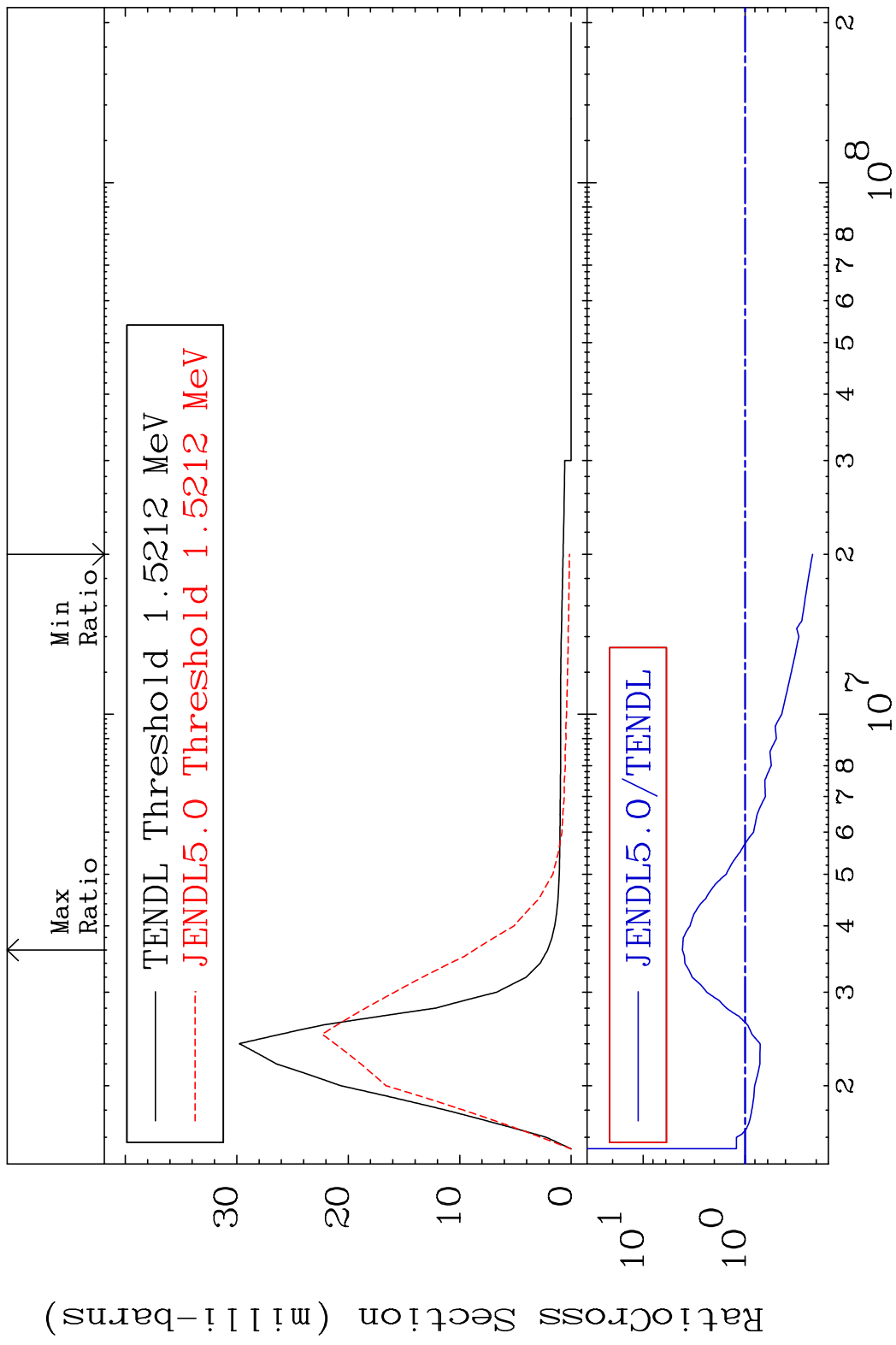
MAT 7237 MT= 71 (n,n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



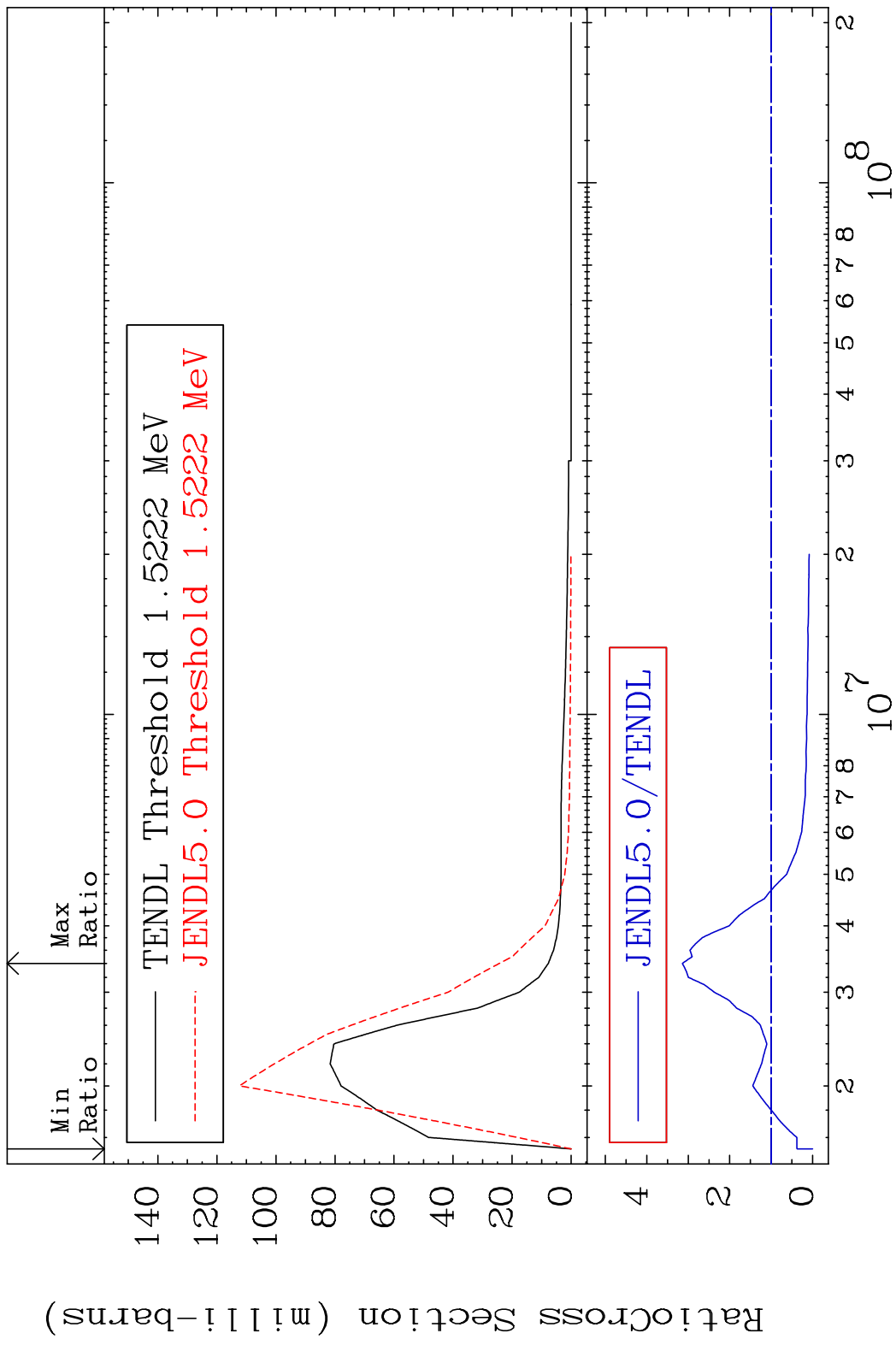
MAT 7237 MT= 72 (n,n') Level 72-Hf-178  
 Cross Section -91.76 To 214.4 %



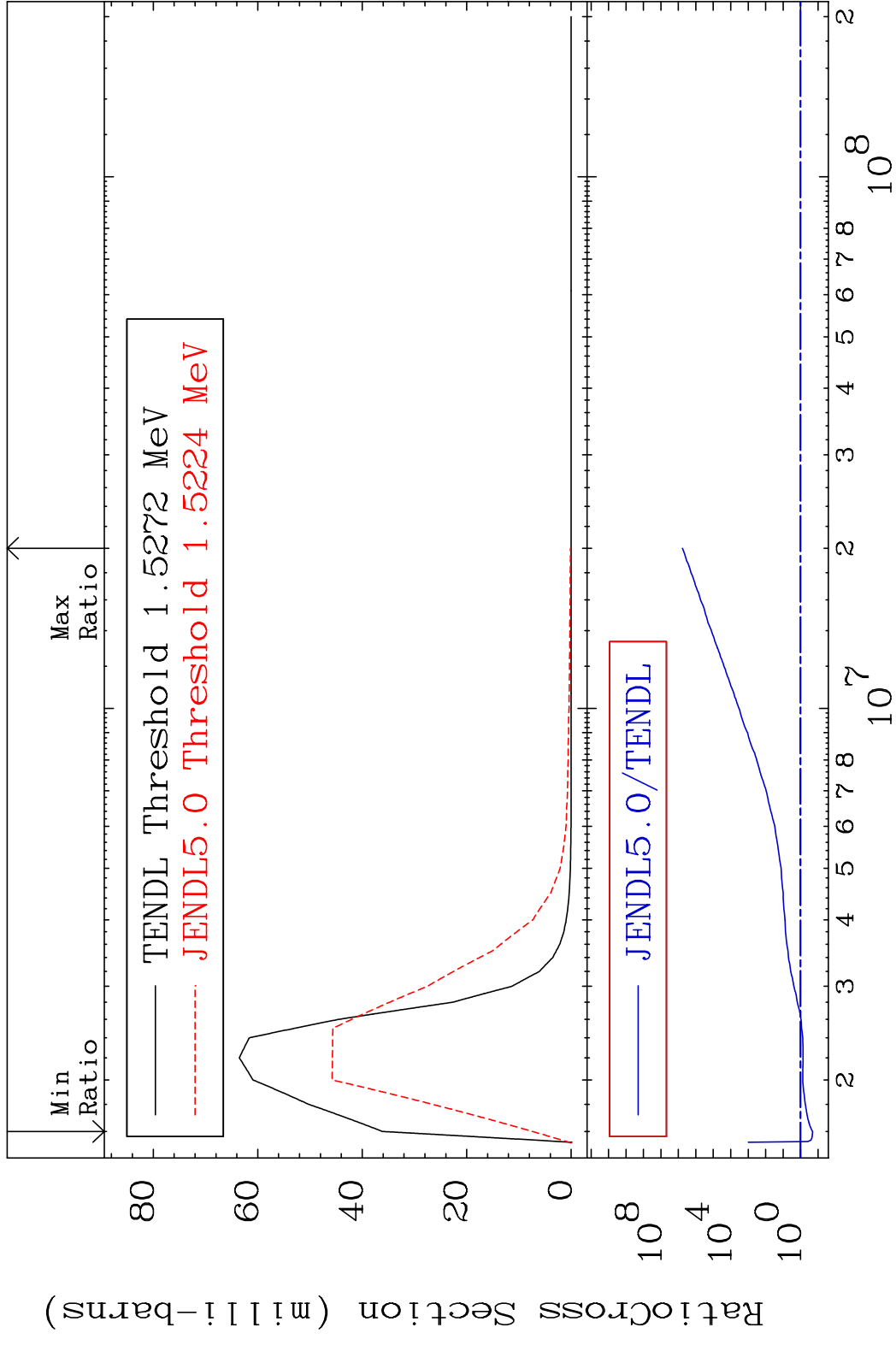
MAT 7237 MT= 73 (n,n') Level 72-Hf-178  
 Cross Section -78.27 To 312.6 %



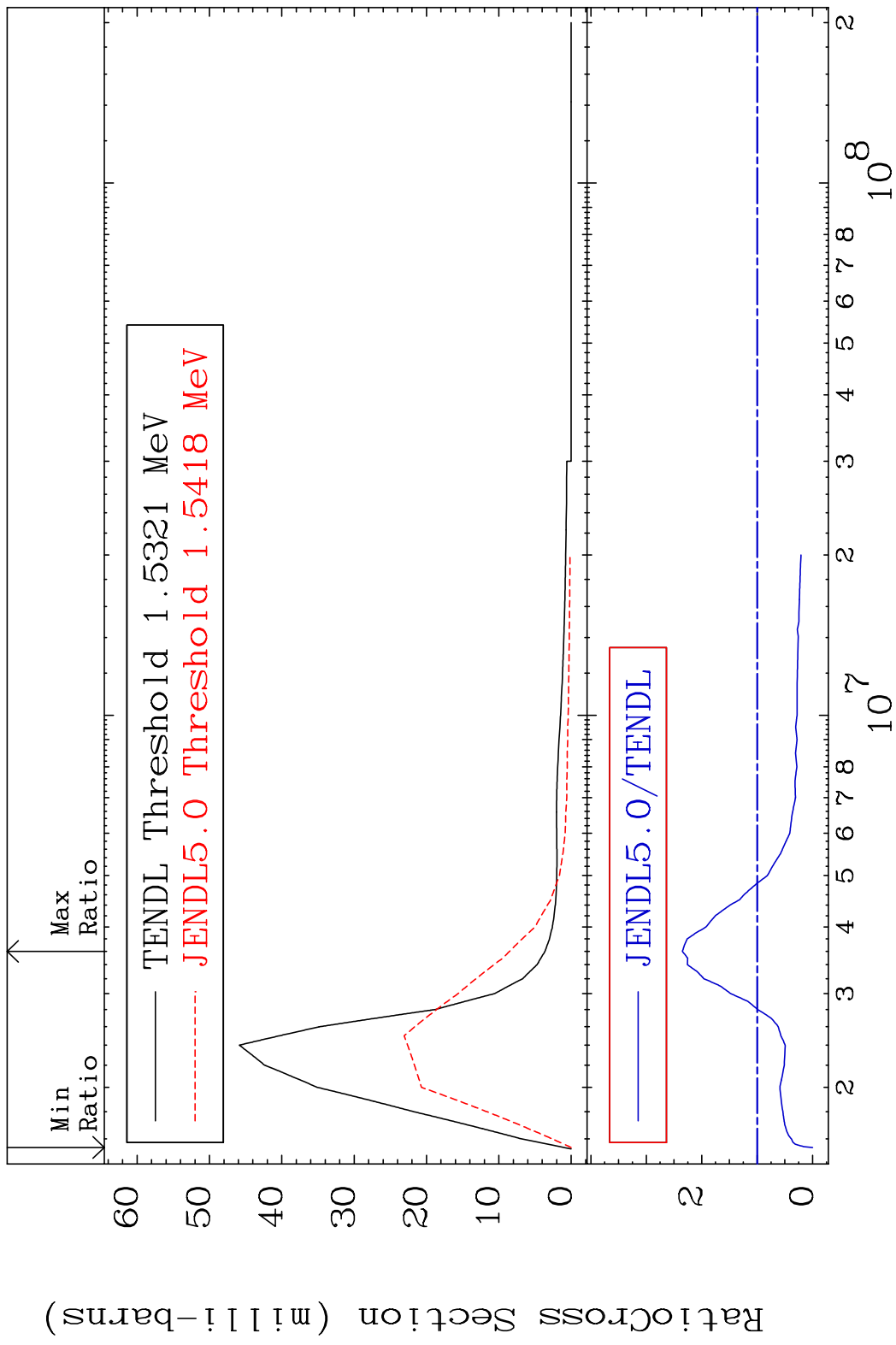
MAT 7237 MT= 74 (n,n') Level 72-Hf-178  
 Cross Section -100.0 To 214.3 %



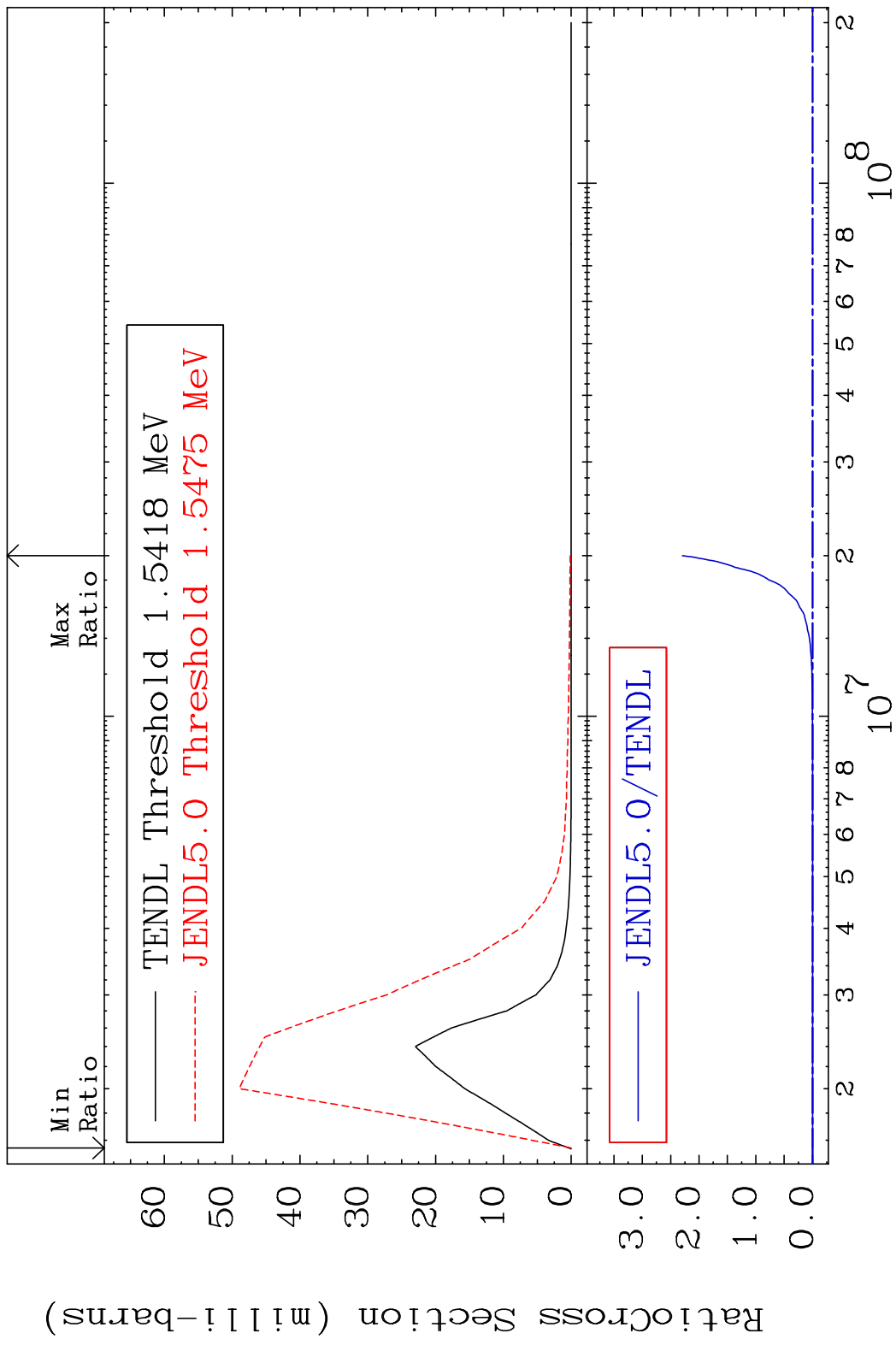
MAT 7237 MT= 75 (n,n') Level 72-Hf-178  
 Cross Section -79.43 To 9999. %



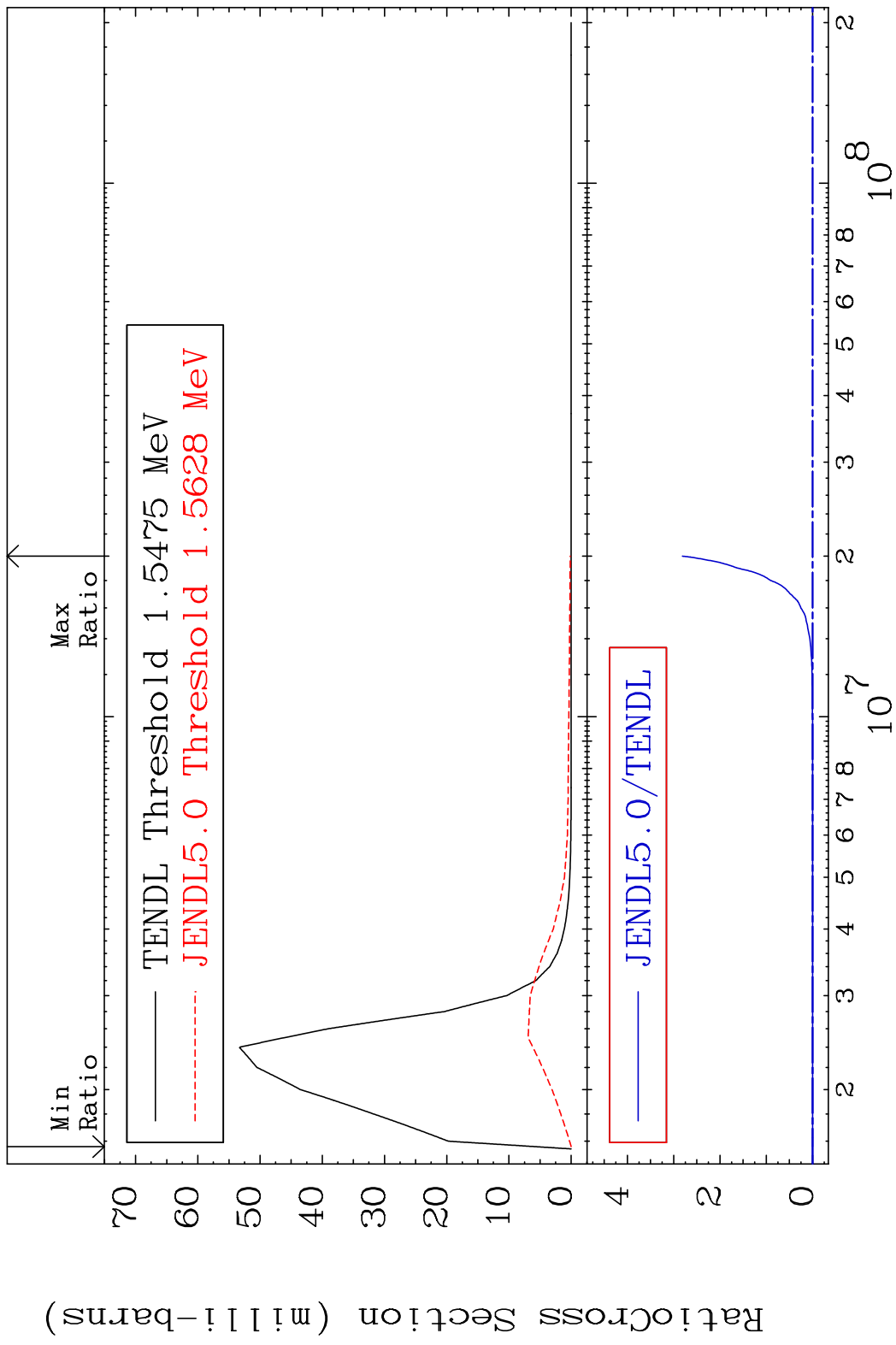
MAT 7237 MT= 76 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 134.9 %



MAT 7237 MT= 77 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %



MAT 7237 MT= 78 (n, n') Level 72-Hf-178  
 Cross Section -100.0 To 9999. %

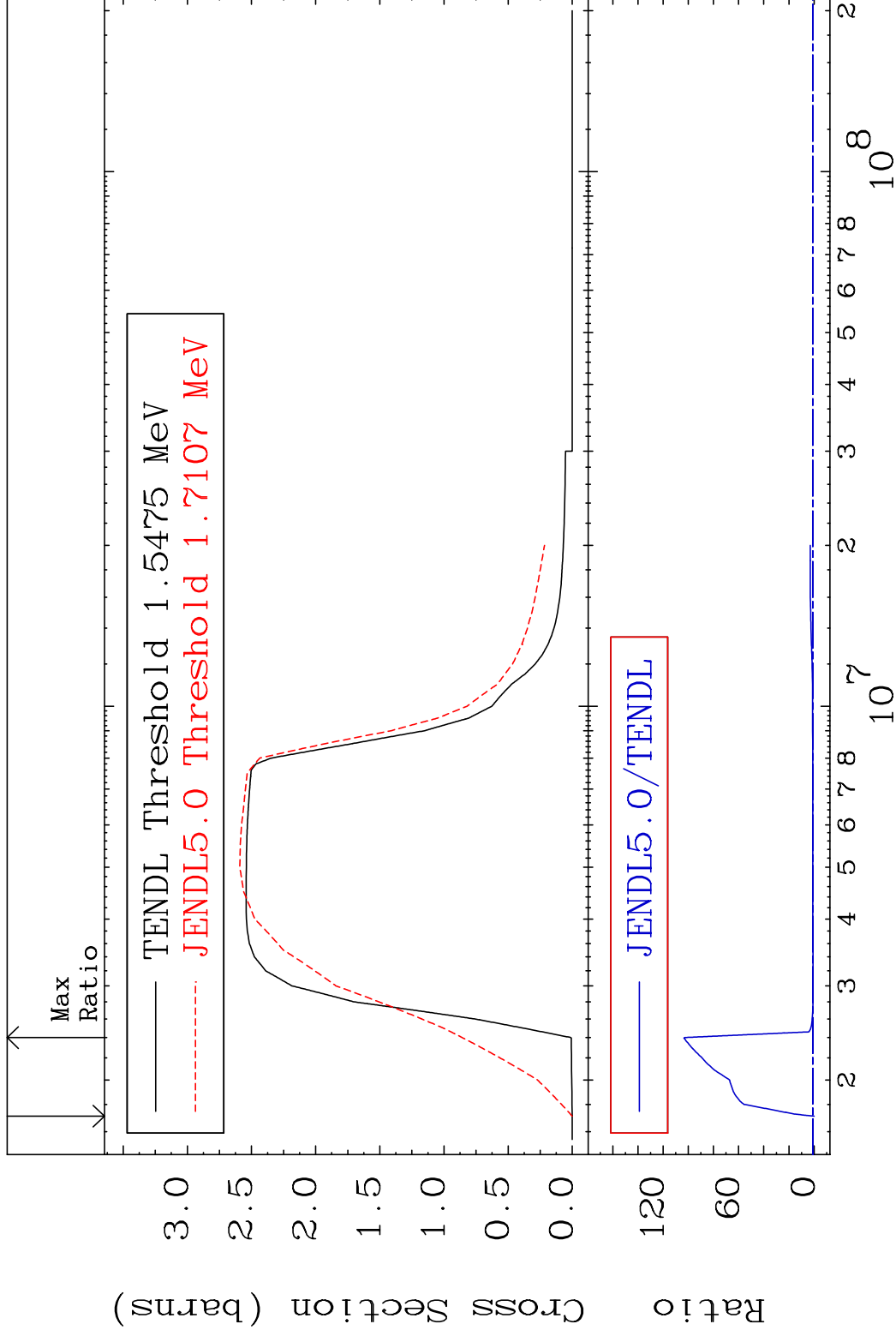


MAT 7237

(n, n') Continuum

72-Hf-178

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

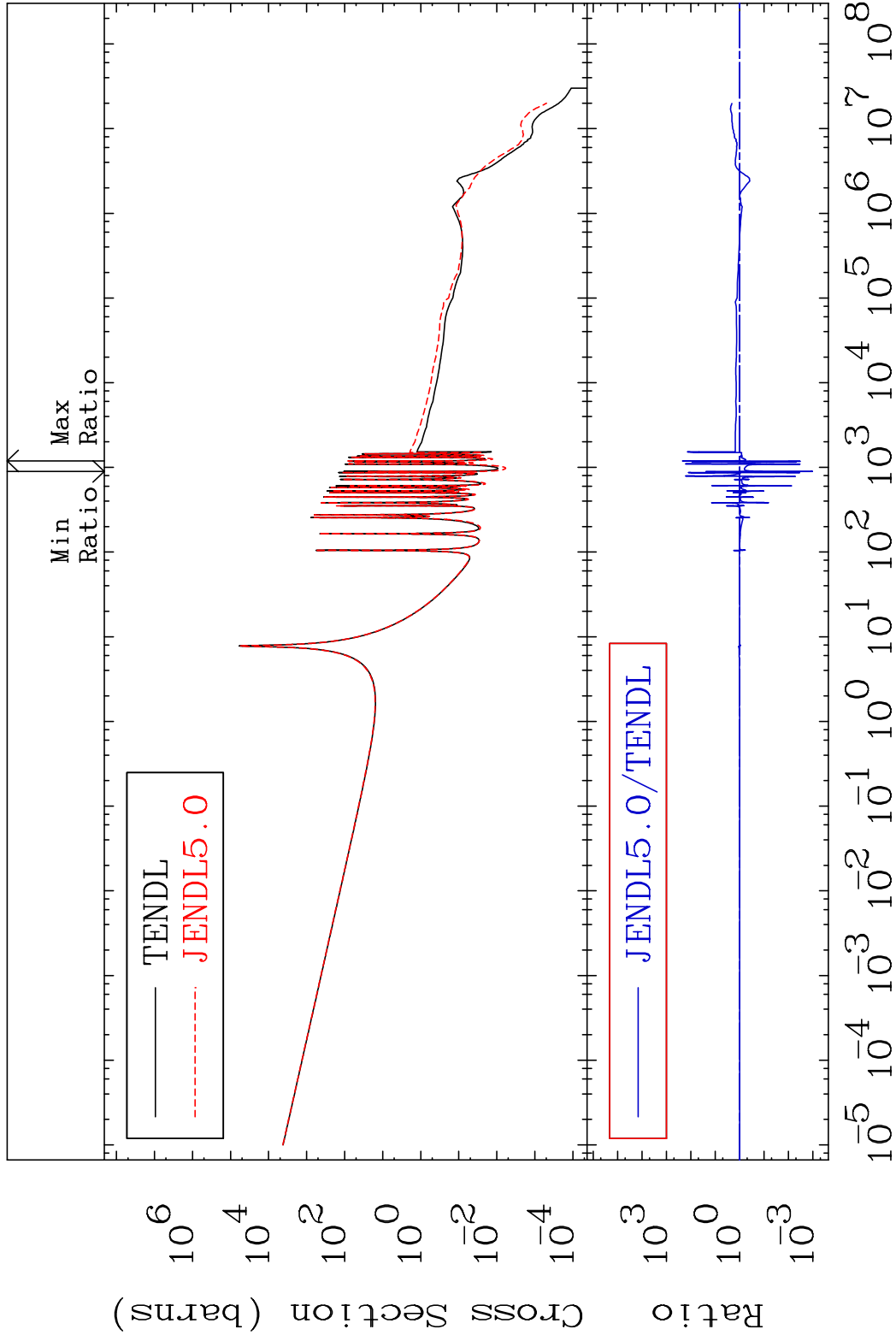
72-Hf-178

MAT 7237

(n,  $\gamma$ )

72-Hf-178

Cross Section -99.90 To 9999. %



38

Incident Energy (eV)

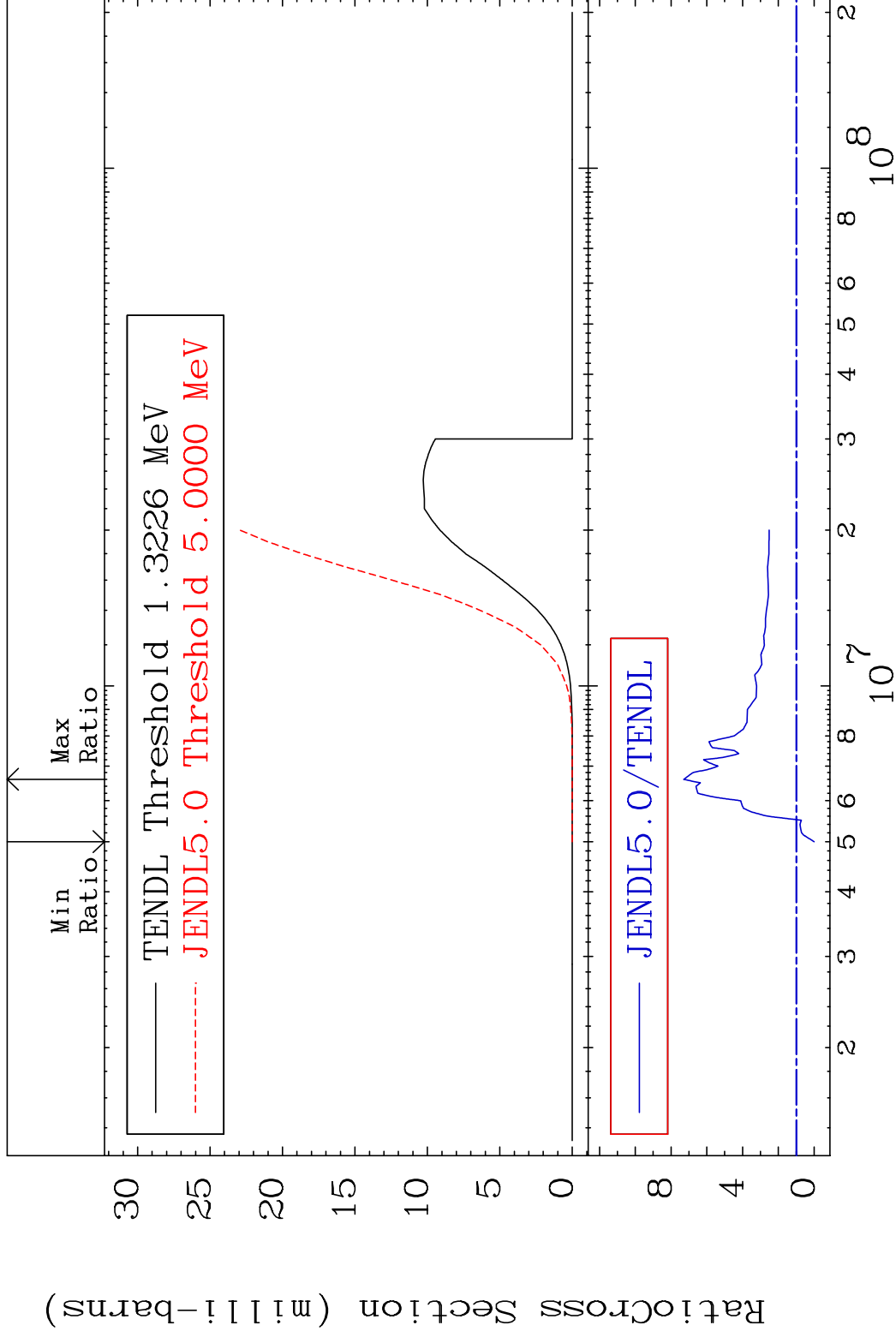
72-Hf-178

MAT 7237

(n, p)

72-Hf-178

Cross Section -100.0 To 629.6 %



39

Incident Energy (eV)

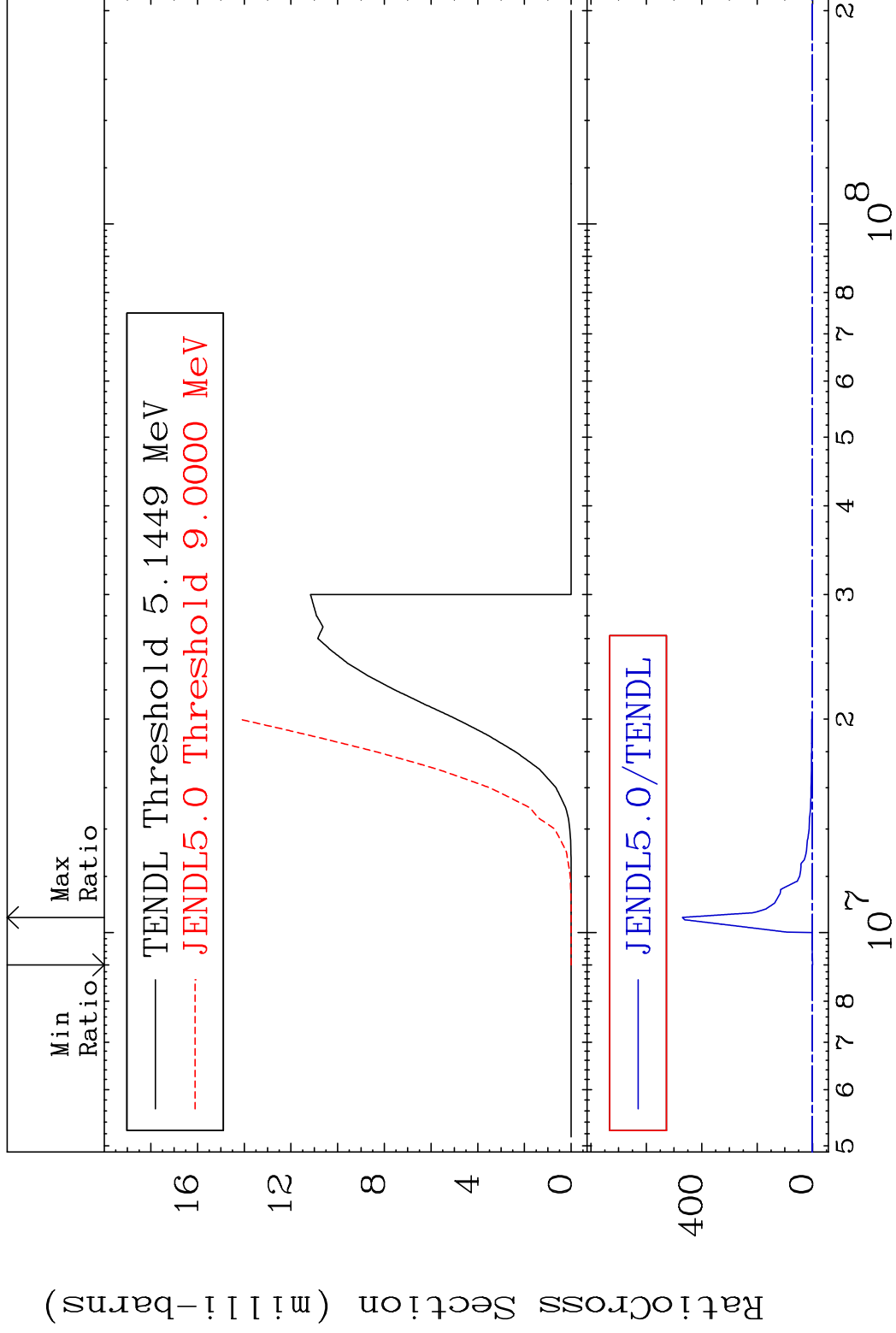
72-Hf-178

MAT 7237

(n,d)

72-Hf-178

Cross Section -100.0 To 9999. %



40

Incident Energy (eV)

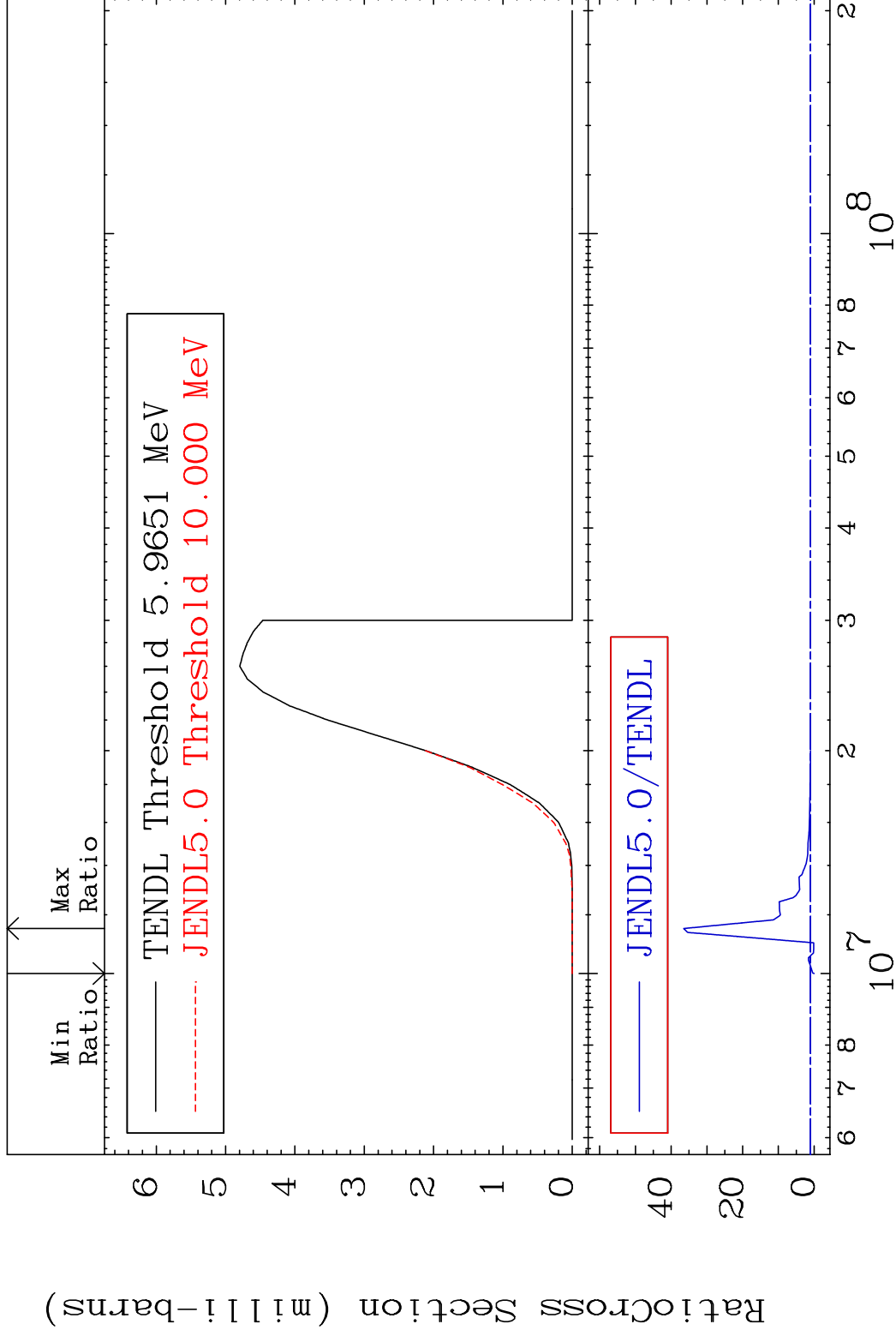
72-Hf-178

MAT 7237

(n, t)

72-Hf-178

Cross Section -100.0 To 3550. %



41

Incident Energy (eV)

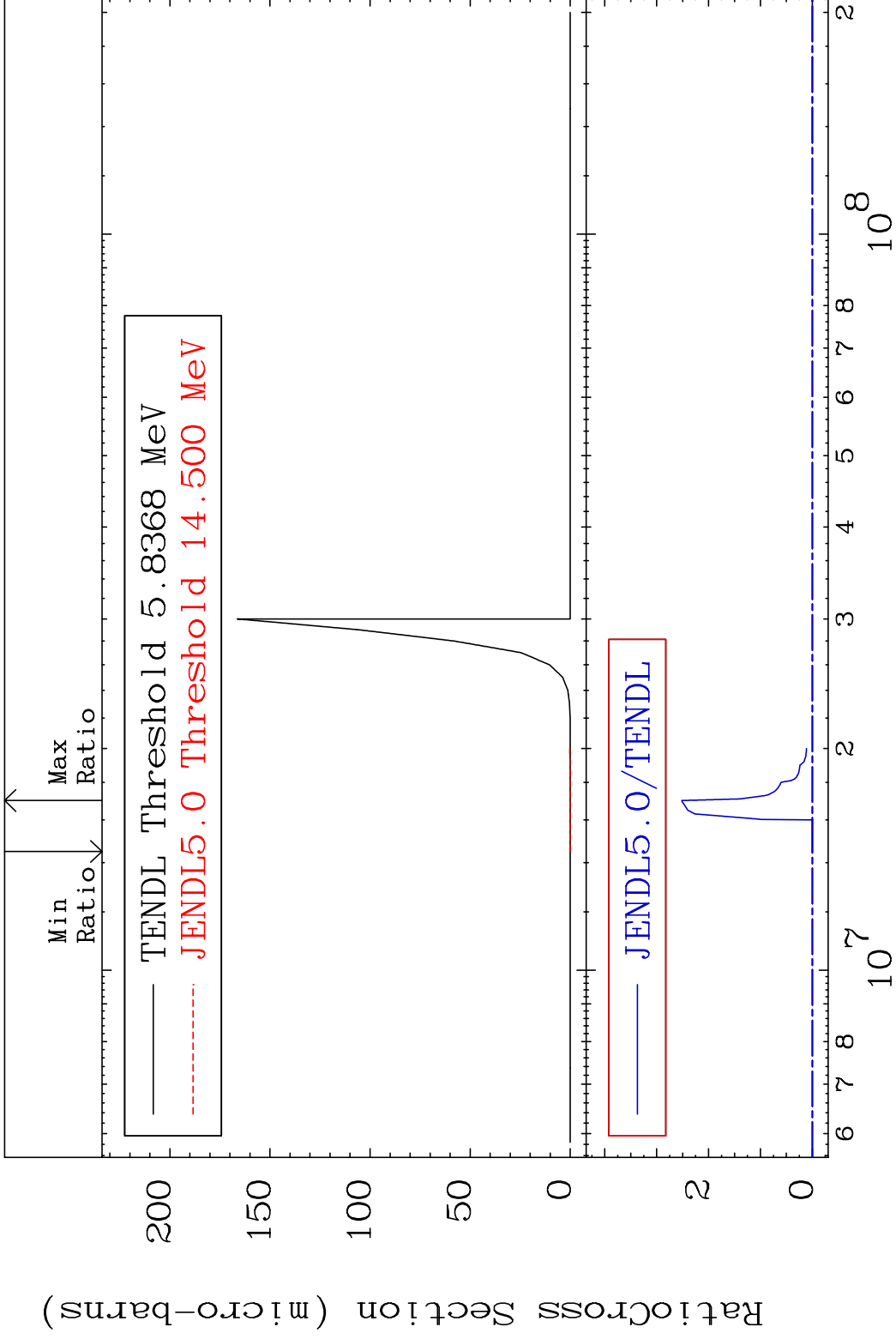
72-Hf-178

MAT 7237

(n, He-3)

72-Hf-178

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

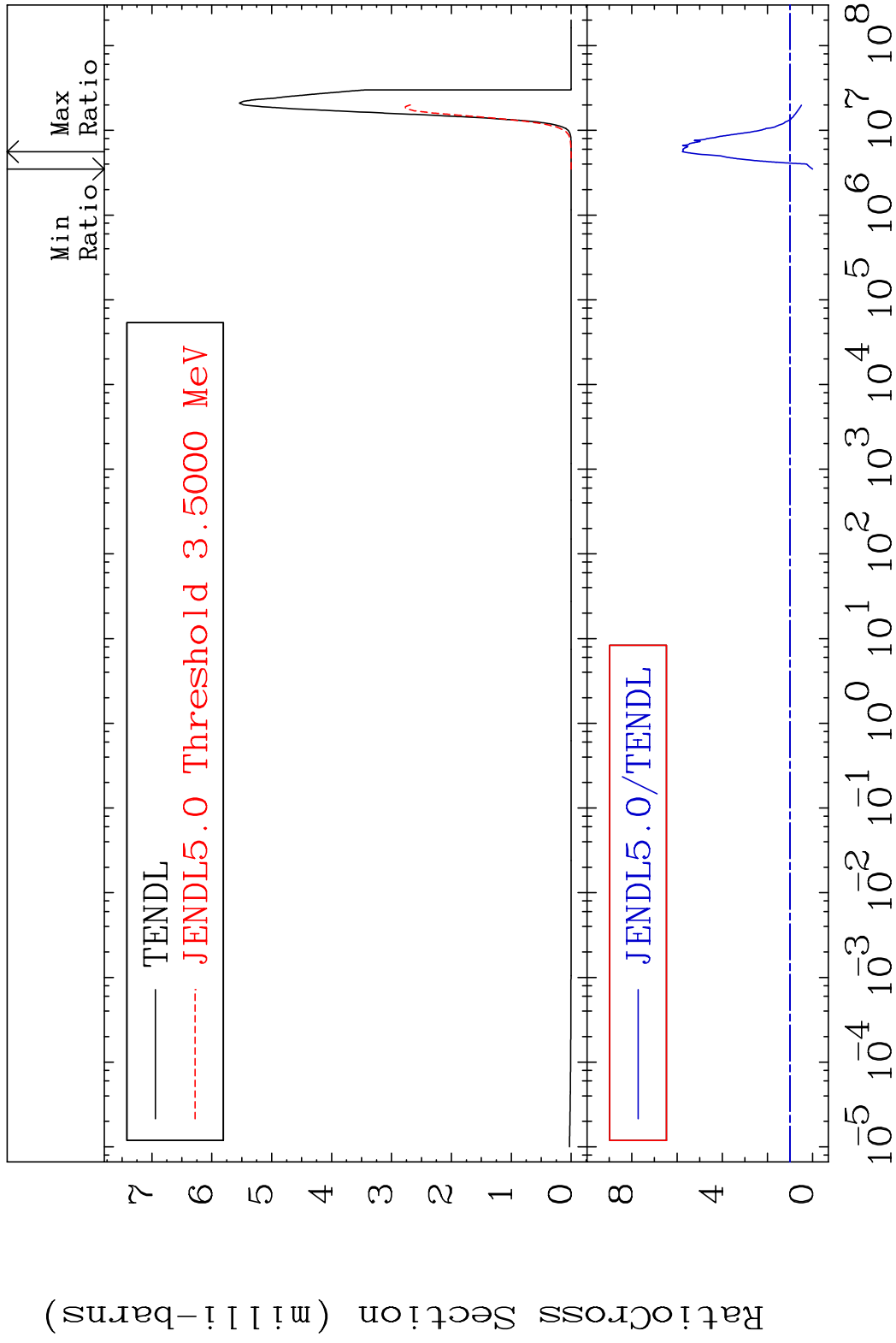
72-Hf-178

MAT 7237

(n,  $\alpha$ )

72-Hf-178

Cross Section -100.0 To 476.5 %

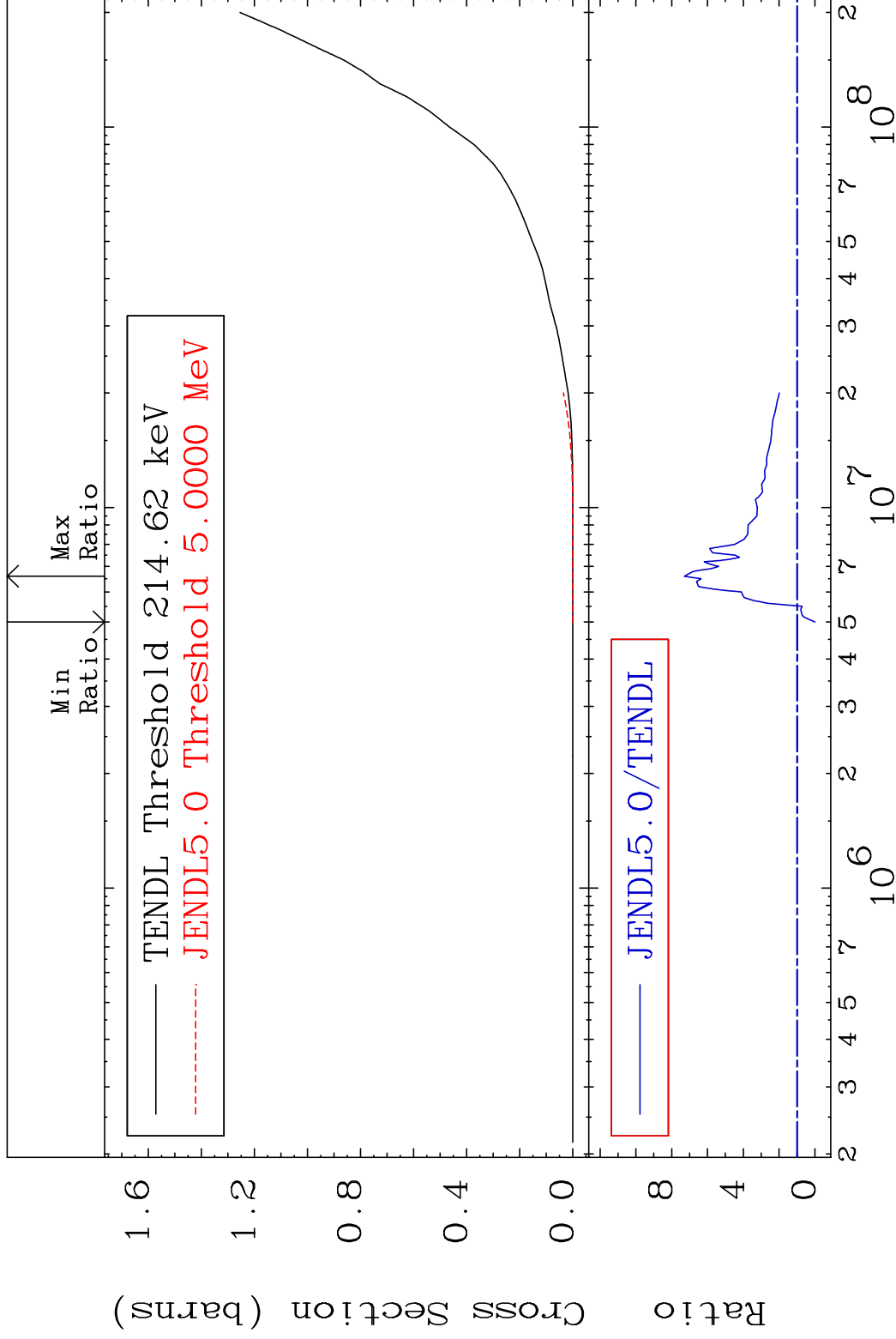


43

Incident Energy (eV)

72-Hf-178

Cross Section -100.0 To 629.6 %

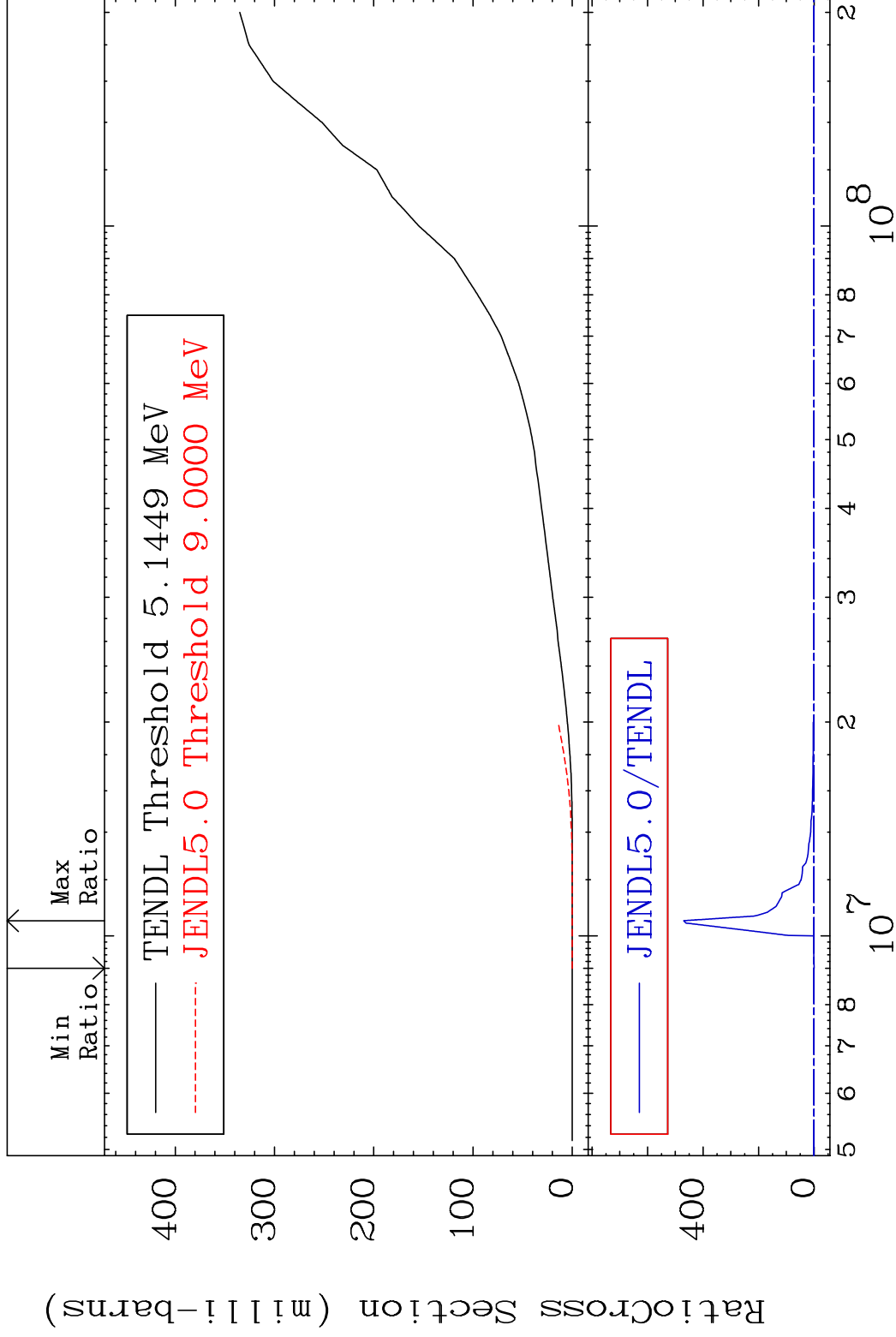


MAT 7237

Deuterium Production

72-Hf-178

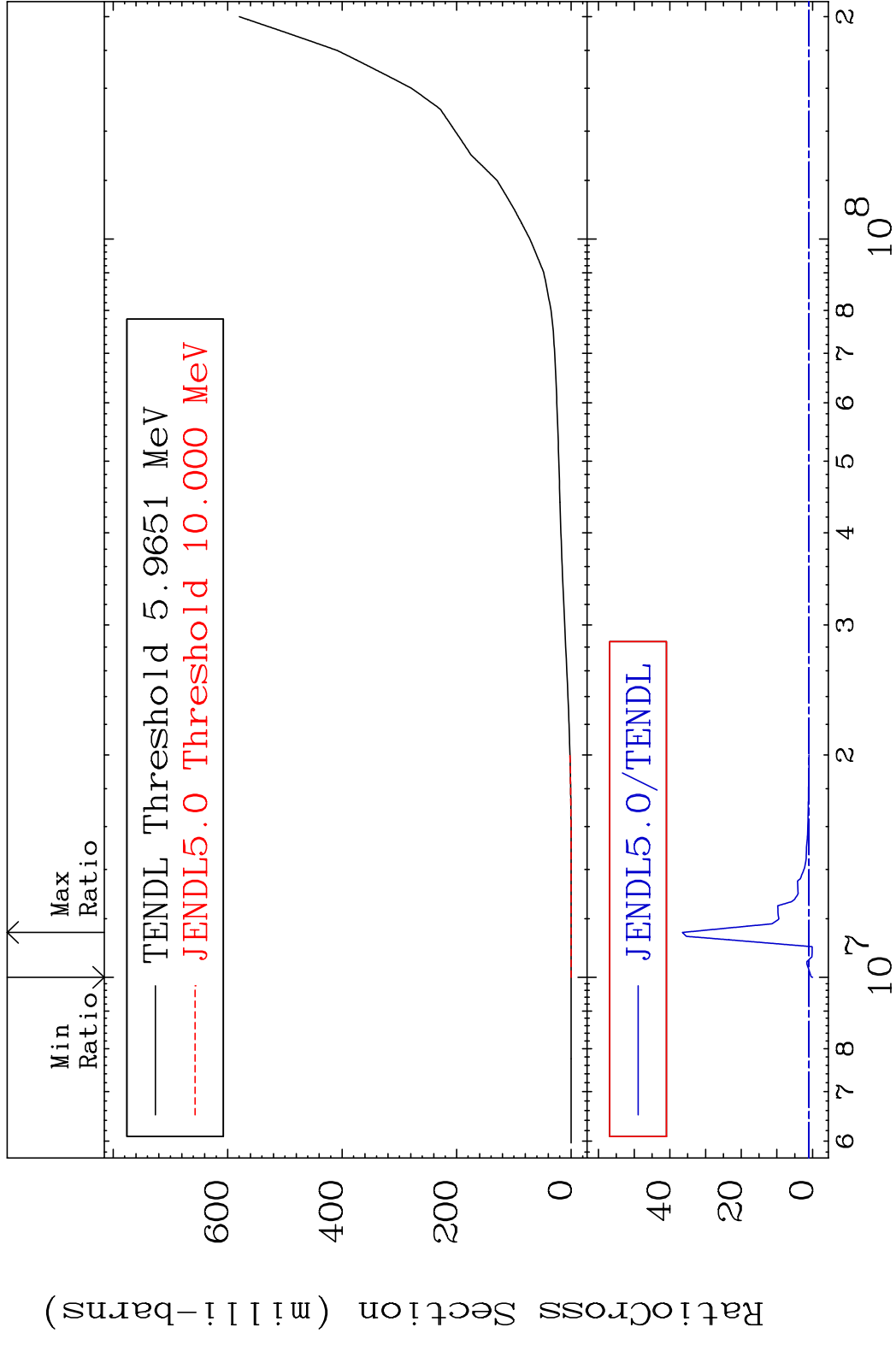
Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

72-Hf-178

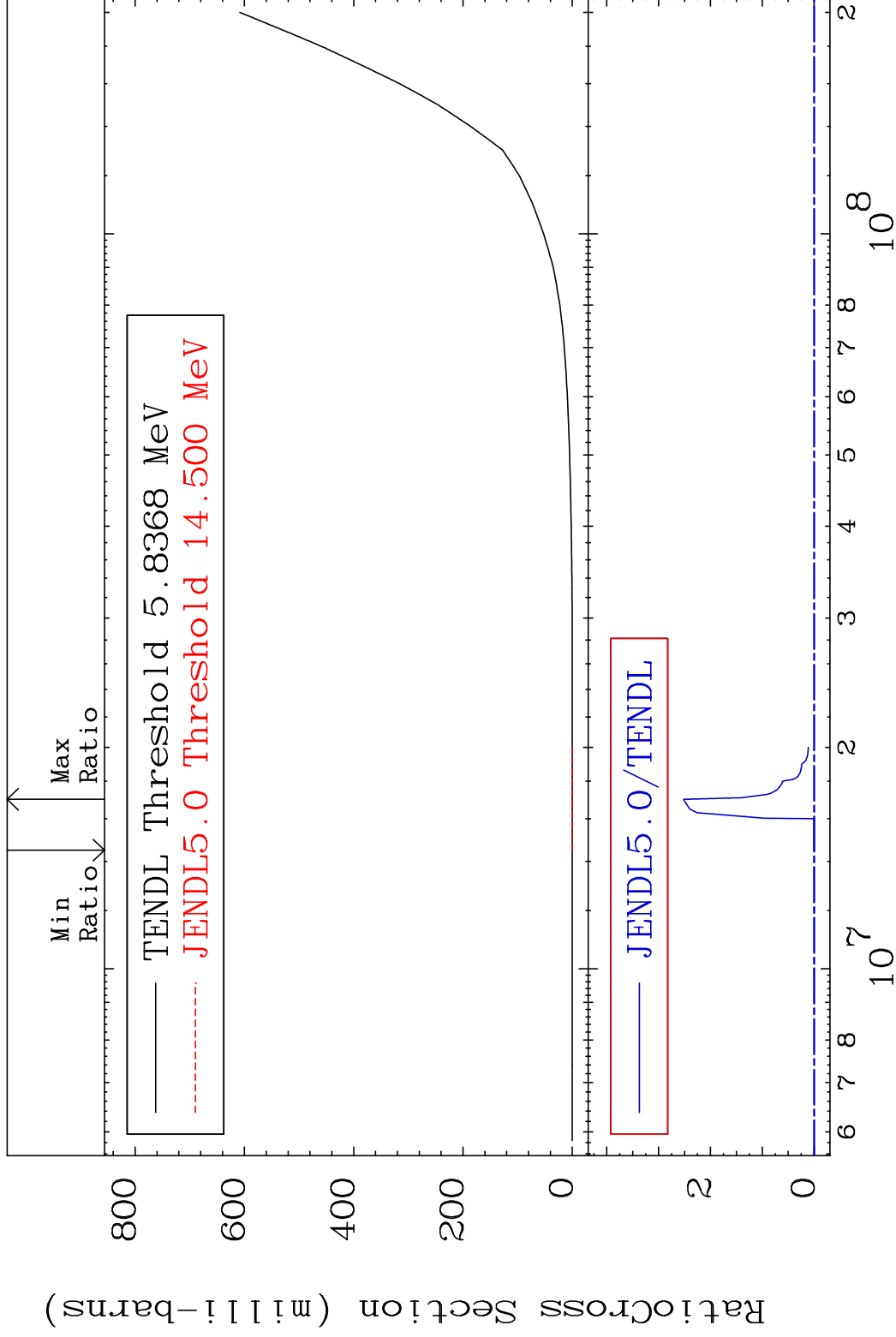


MAT 7237

He-3 Production

72-Hf-178

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

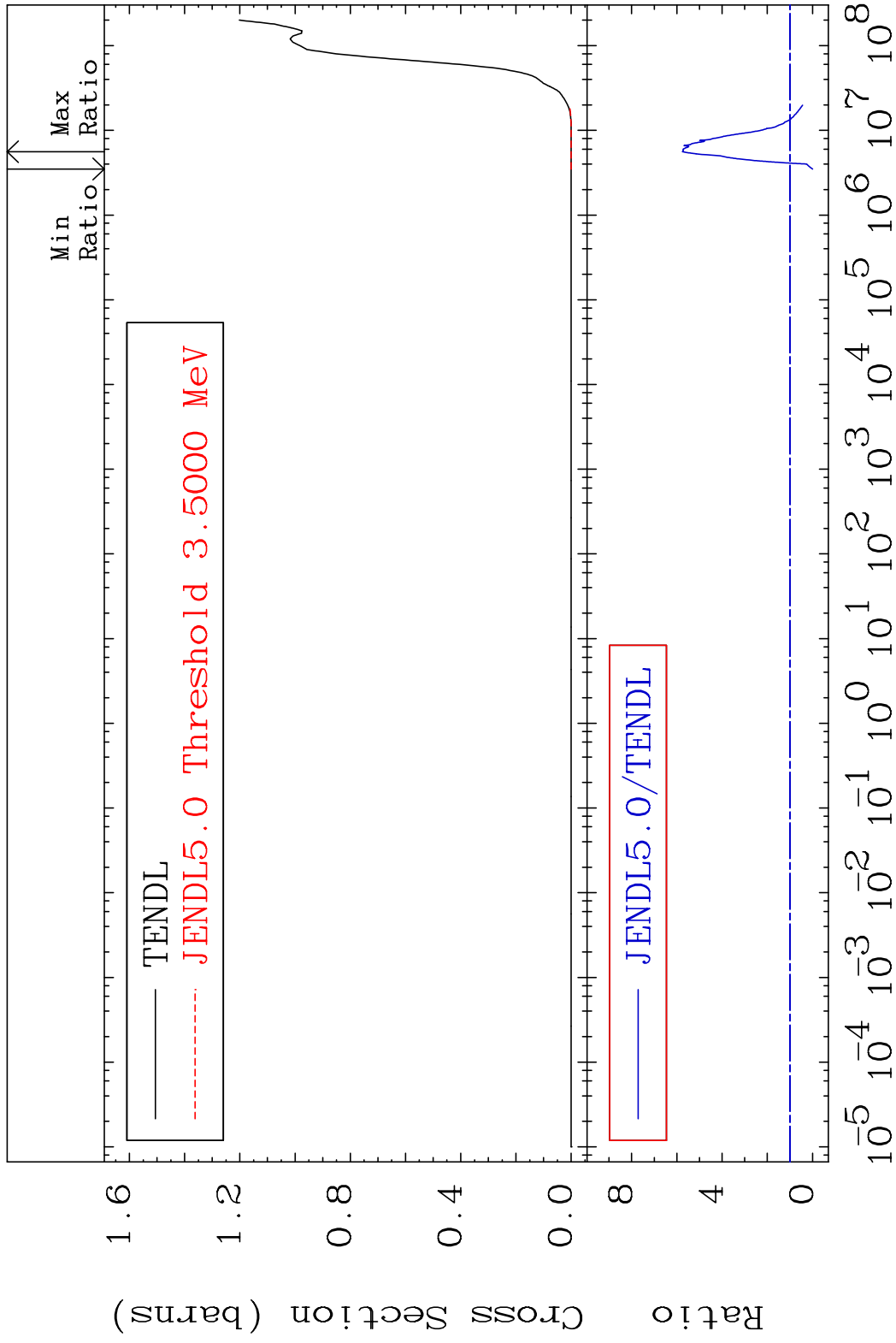
72-Hf-178

MAT 7237

He-4 Production

72-Hf-178

Cross Section -100.0 To 475.8 %



48

Incident Energy (eV)

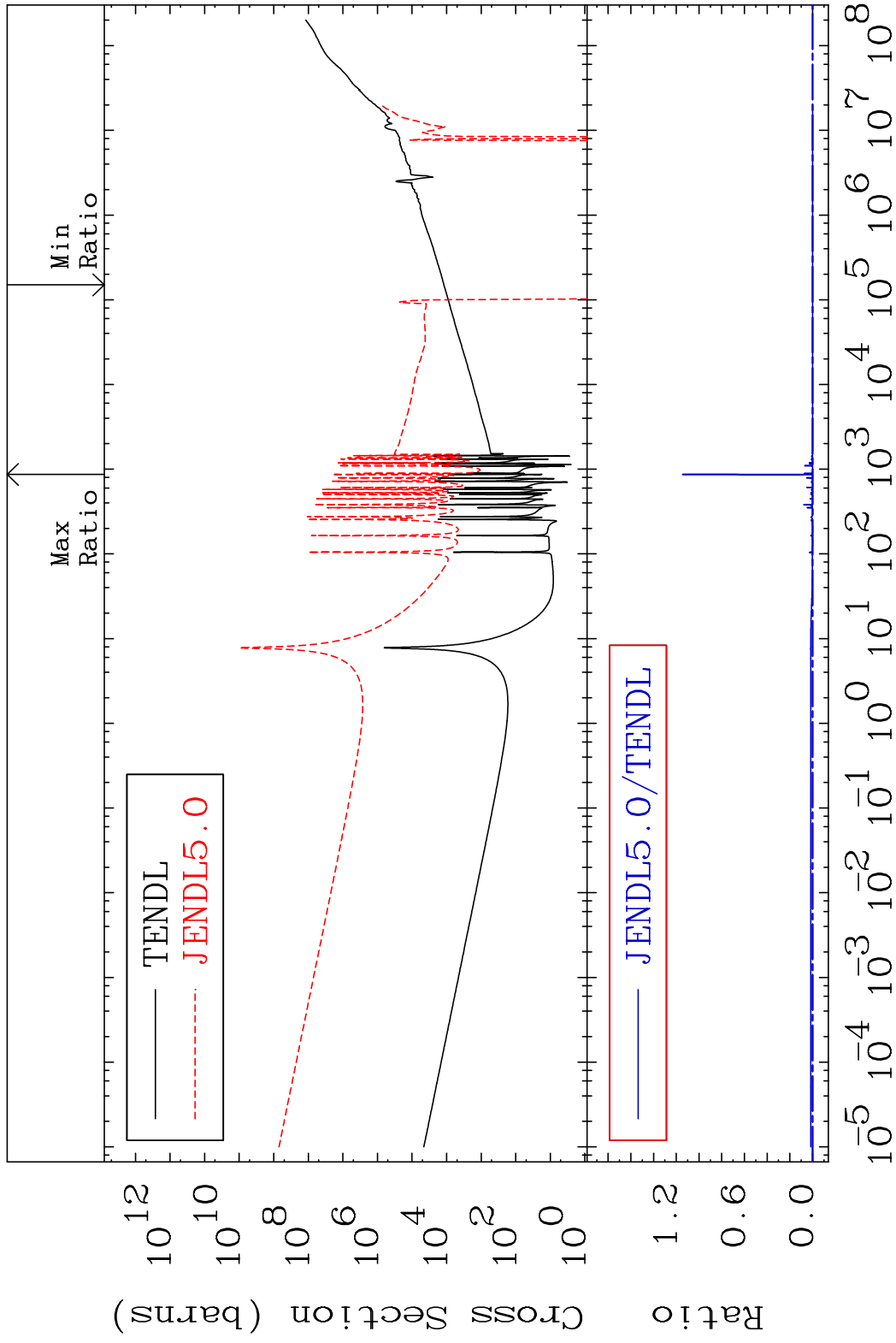
72-Hf-178

MAT 7237

Kerma total (eV-barns)

72-Hf-178

Cross Section -1992. To 9999. %



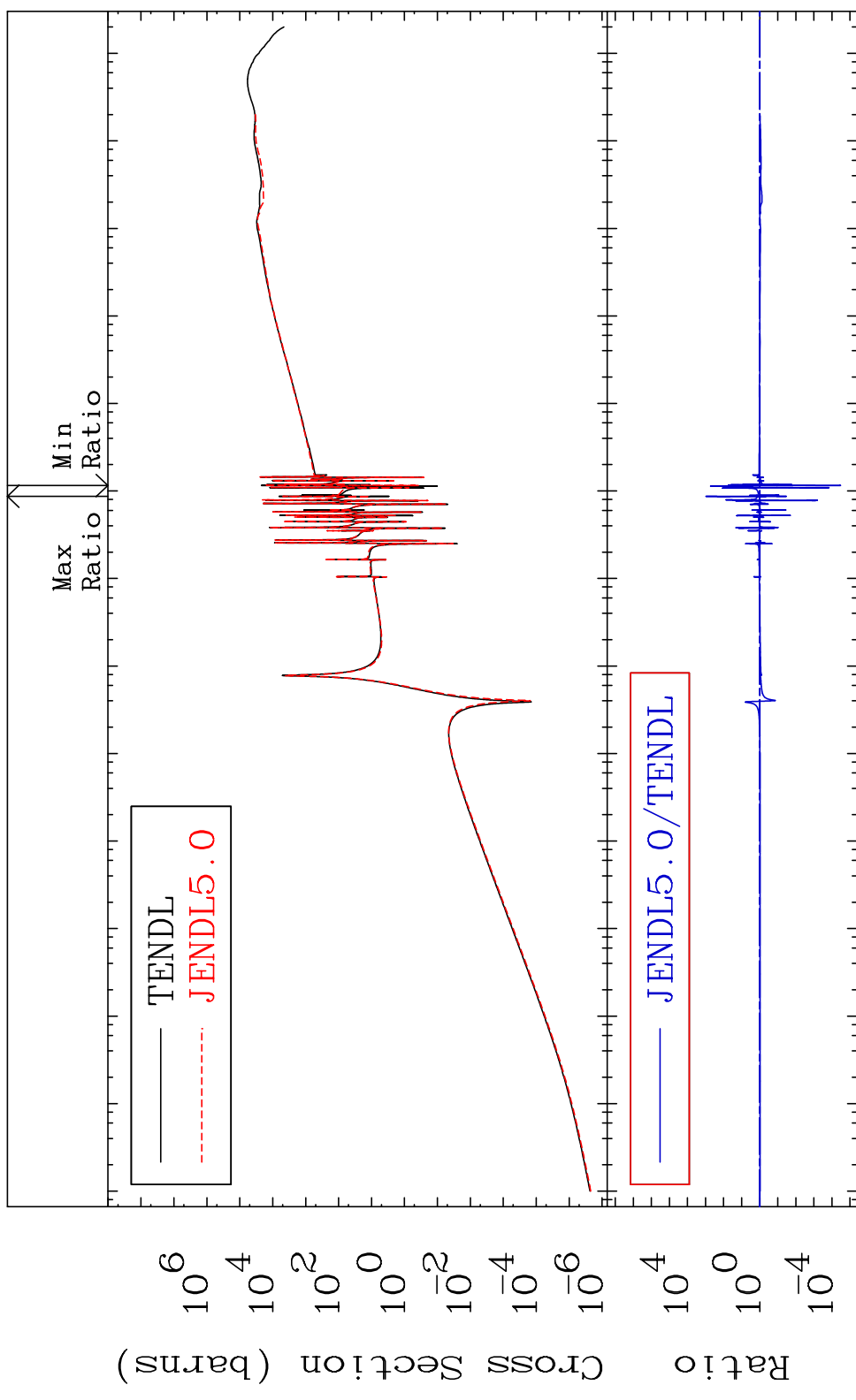
49

Incident Energy (eV)

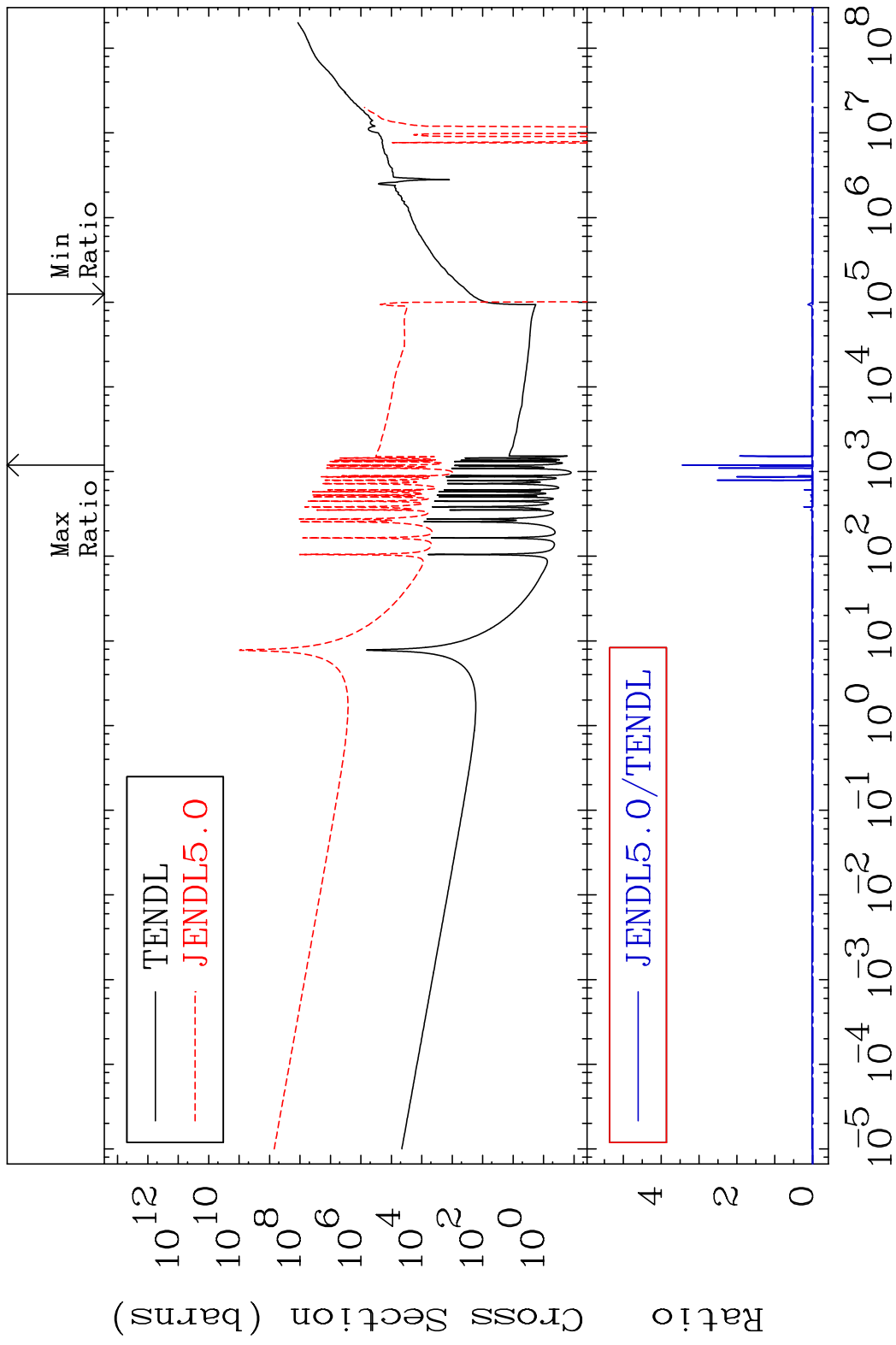
72-Hf-178

MAT 7237

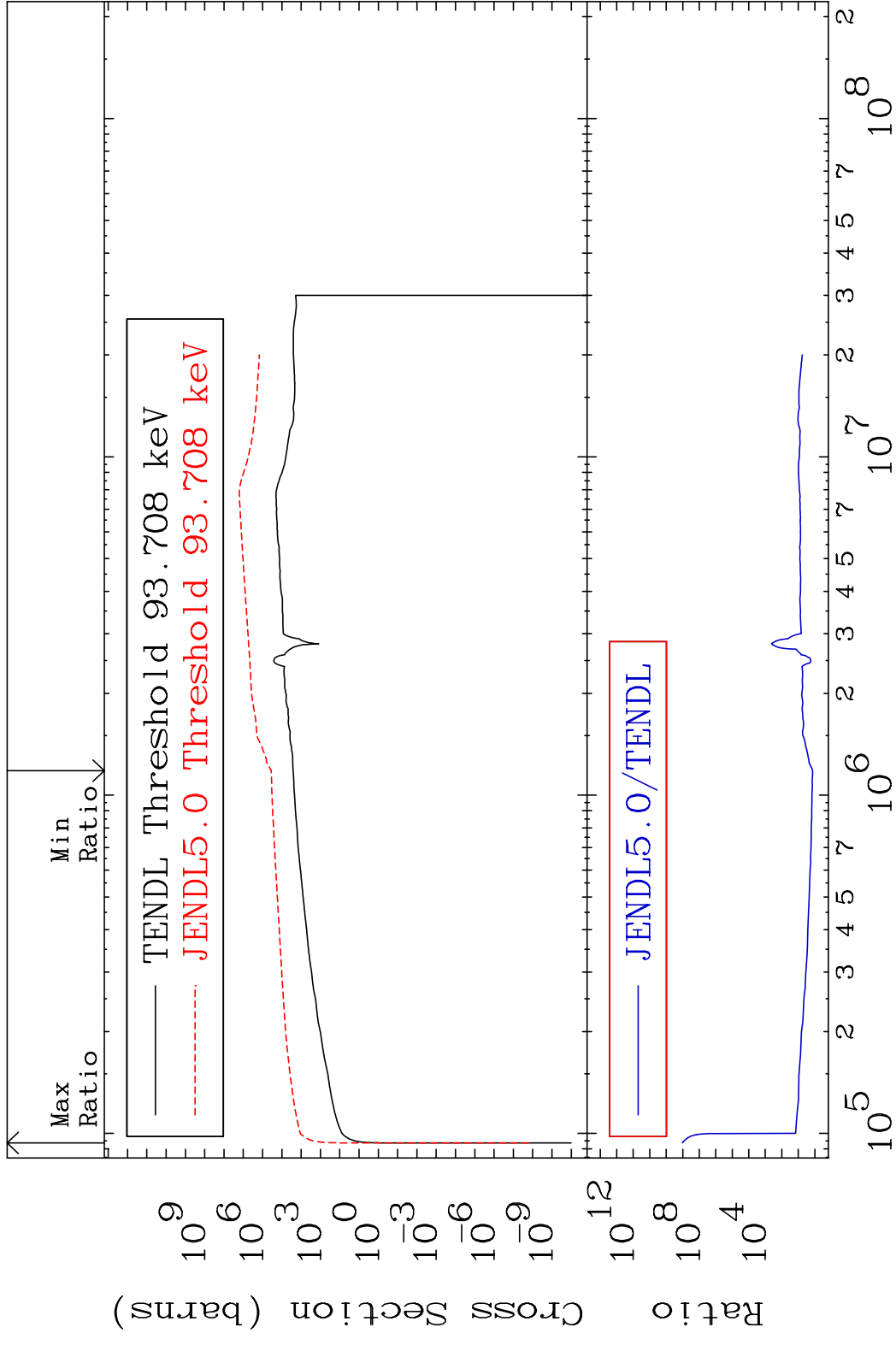
Kerma elastic Cross Section -100.0 To 9999. %  
72-Hf-178



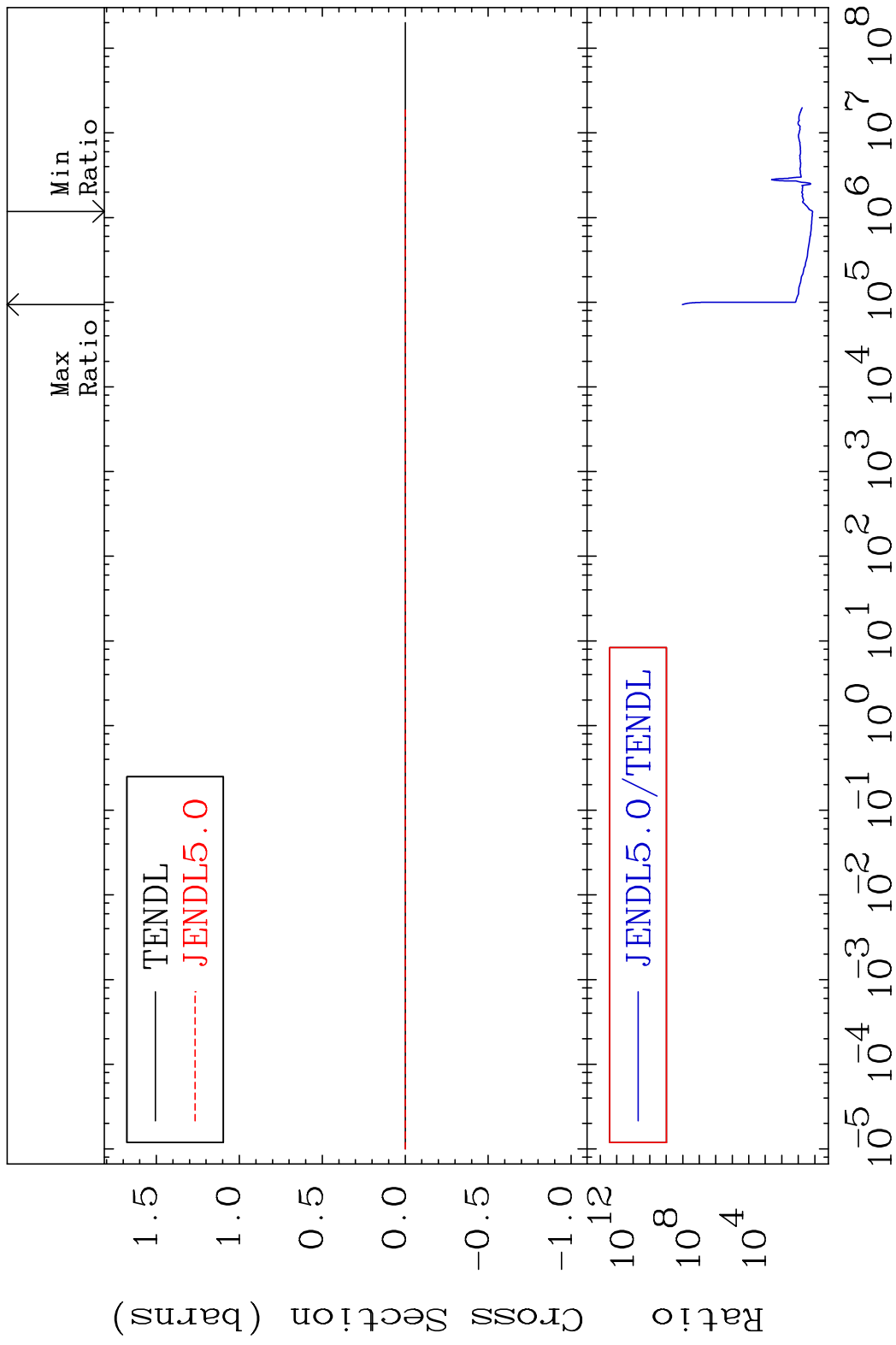
MAT 7237 Kerma non-elastic (all but mt2) 72-Hf-178  
 Cross Section -9999. To 9999. %

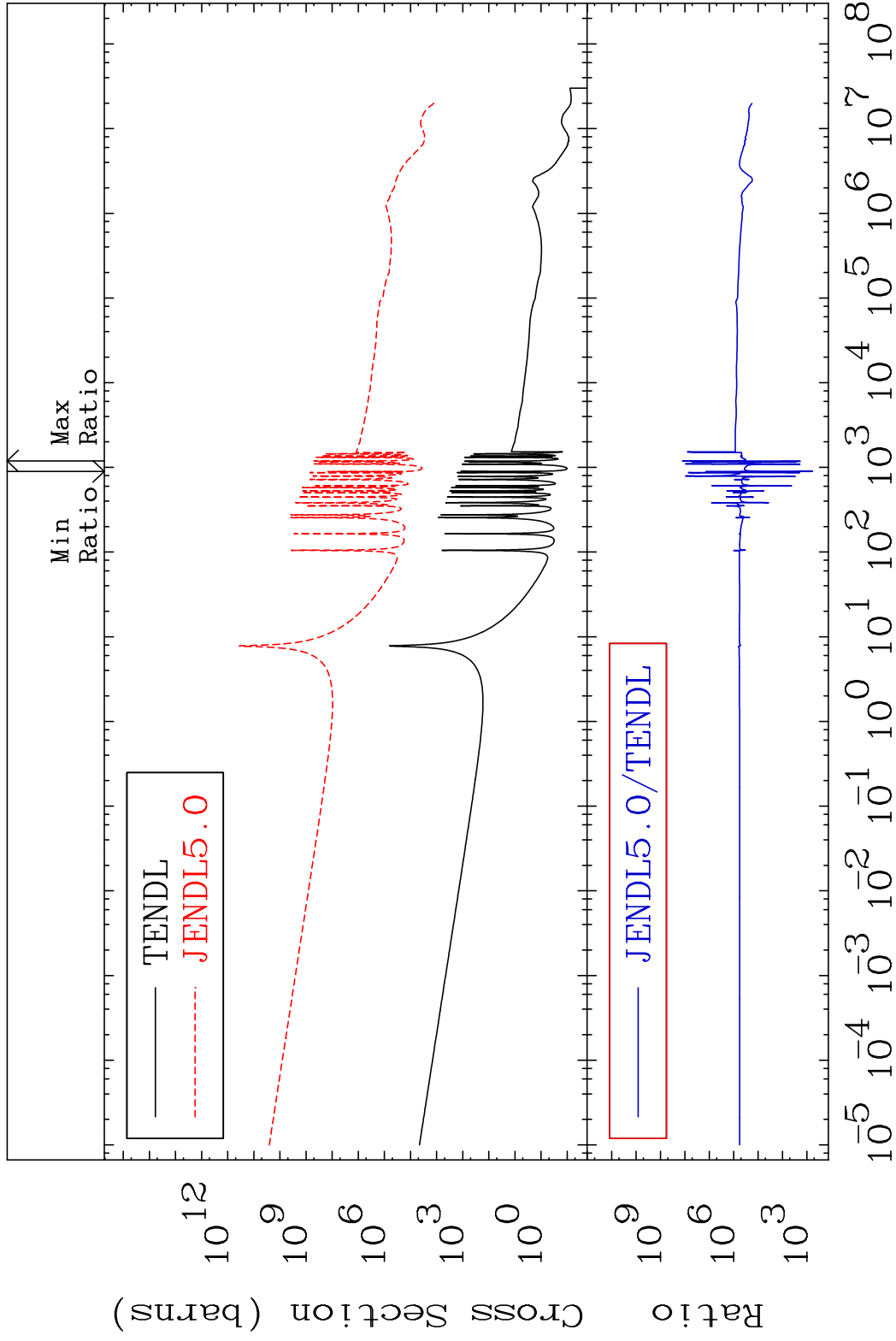


MAT 7237 Kerma inelastic (mt51-91) 72-Hf-178  
 Cross Section 1268. To 9999. %

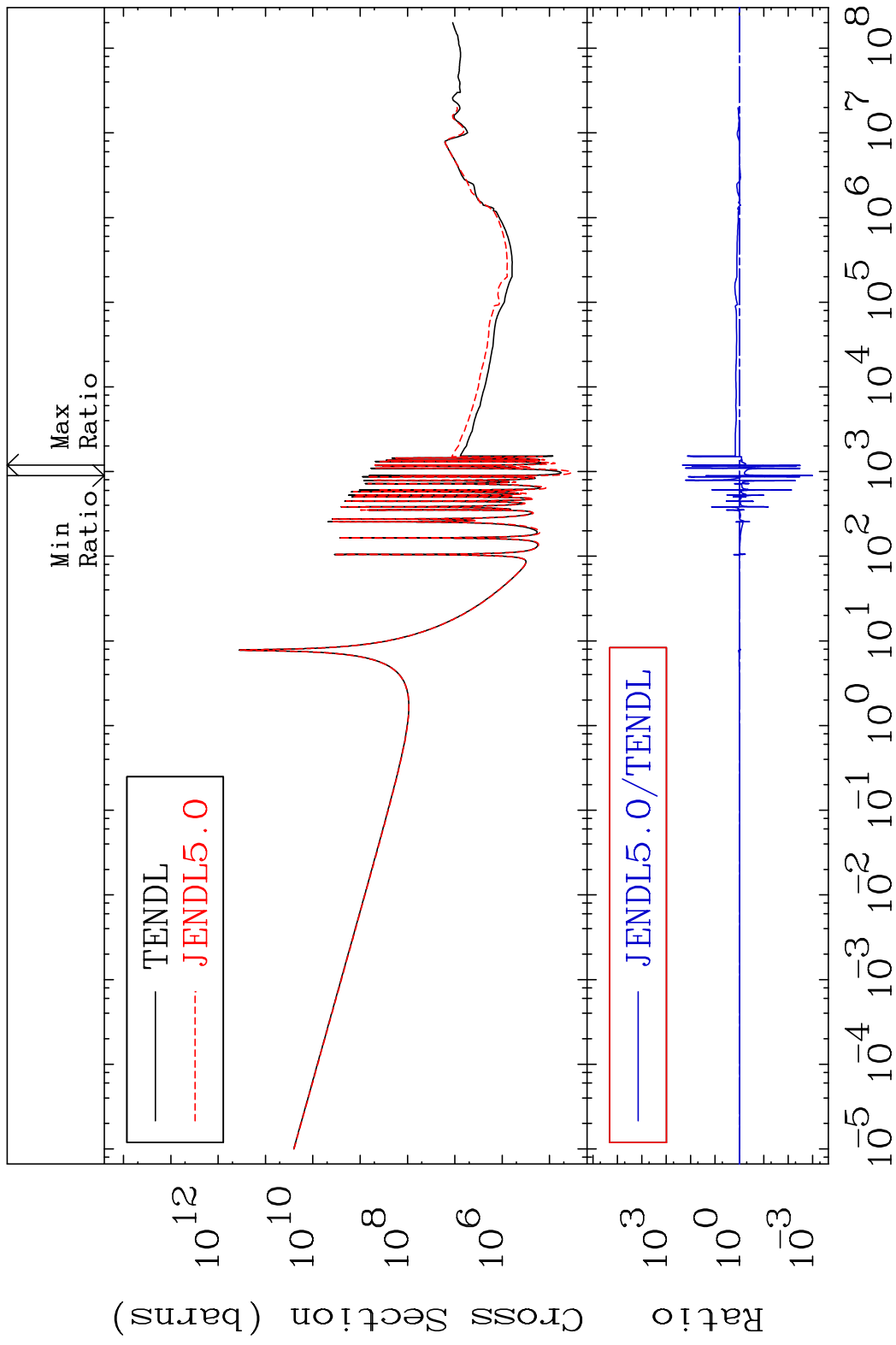


MAT 7237 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-178  
 Cross Section 1268. To 9999. %

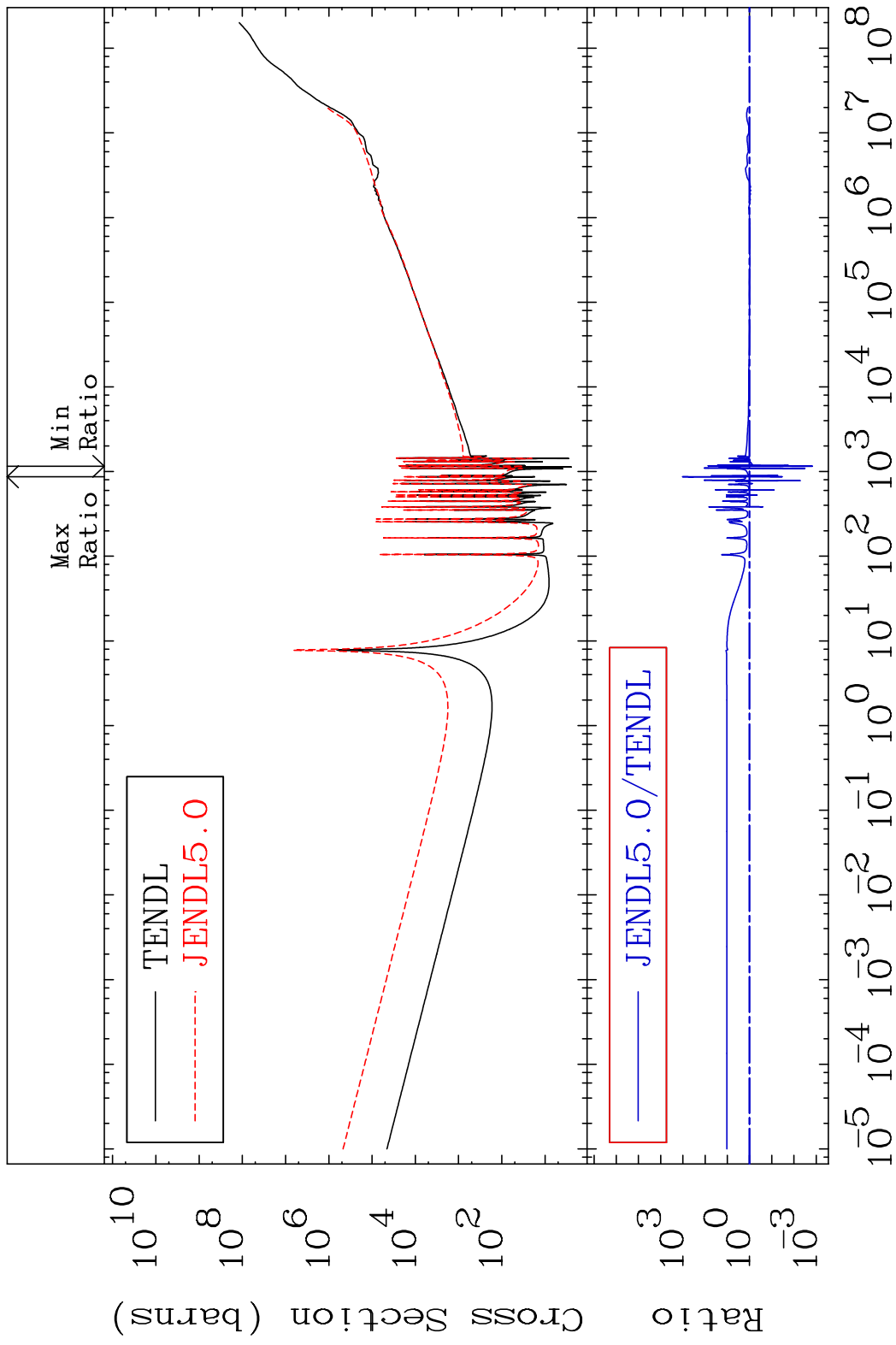




MAT 7237 Total photon (eV-barns) 72-Hf-178  
 Cross Section -99.90 To 9999. %



MAT 7237 Total kinematic kerma (high limit) 72-Hf-178  
 Cross Section -99.85 To 9999. %

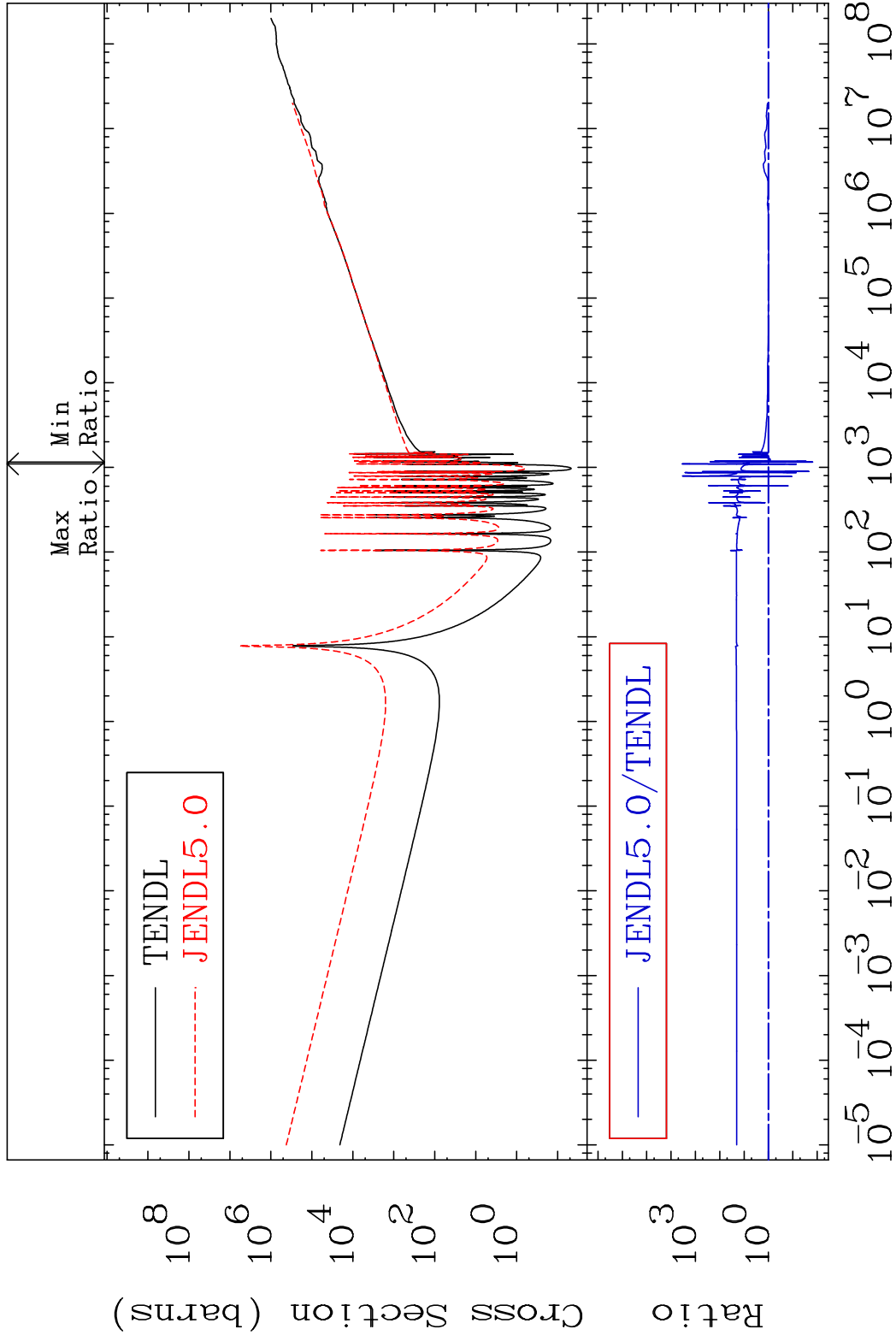


MAT 7237

Dpa total (eV-barns)

72-Hf-178

Cross Section -98.45 To 9999. %



57

Incident Energy (eV)

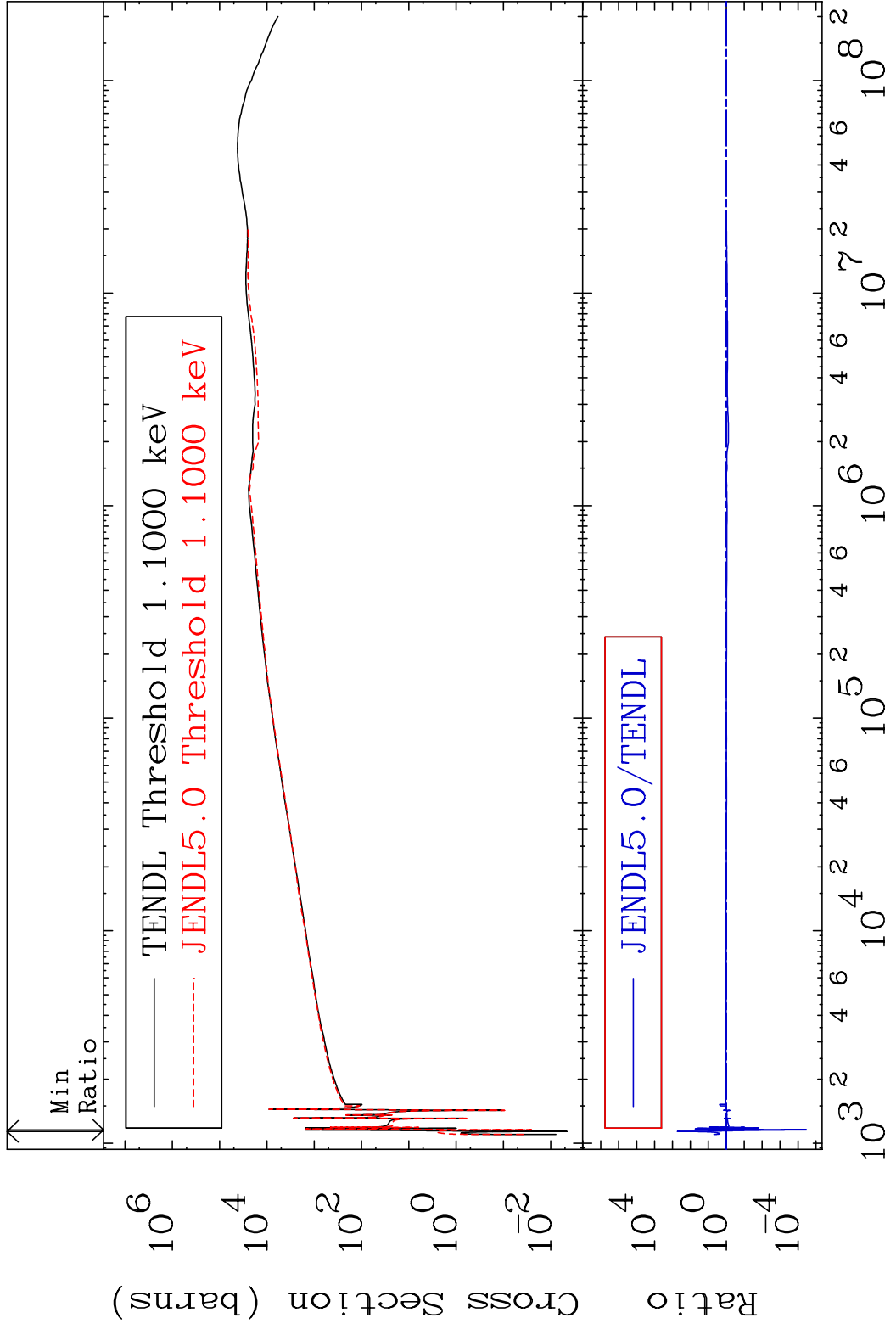
72-Hf-178

MAT 7237

Dpa elastic (mt2)

72-Hf-178

Cross Section -100.0 To 9999. %

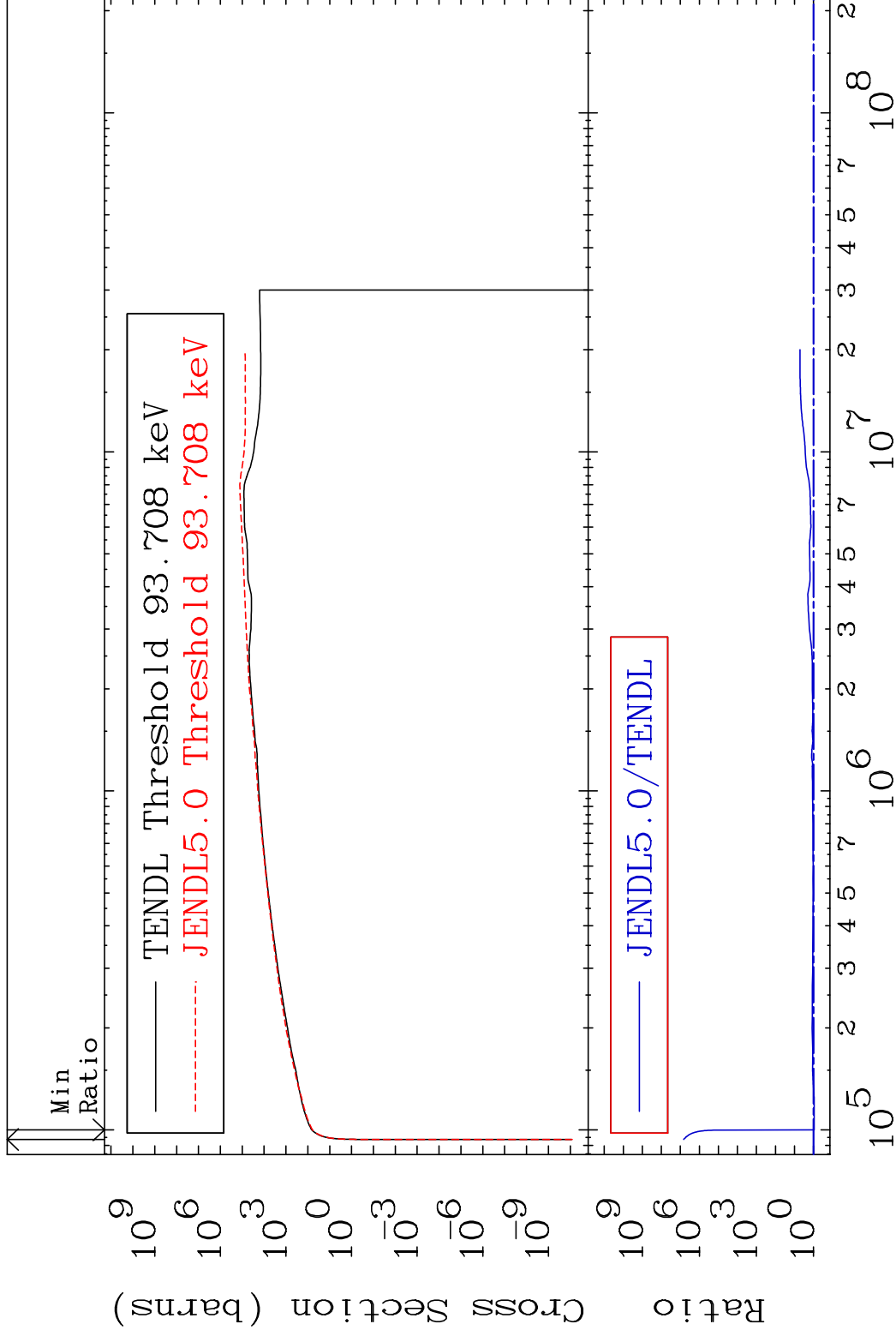


MAT 7237

Dpa inelastic (mt51-91)

72-Hf-178

Cross Section -7.249 To 9999. %

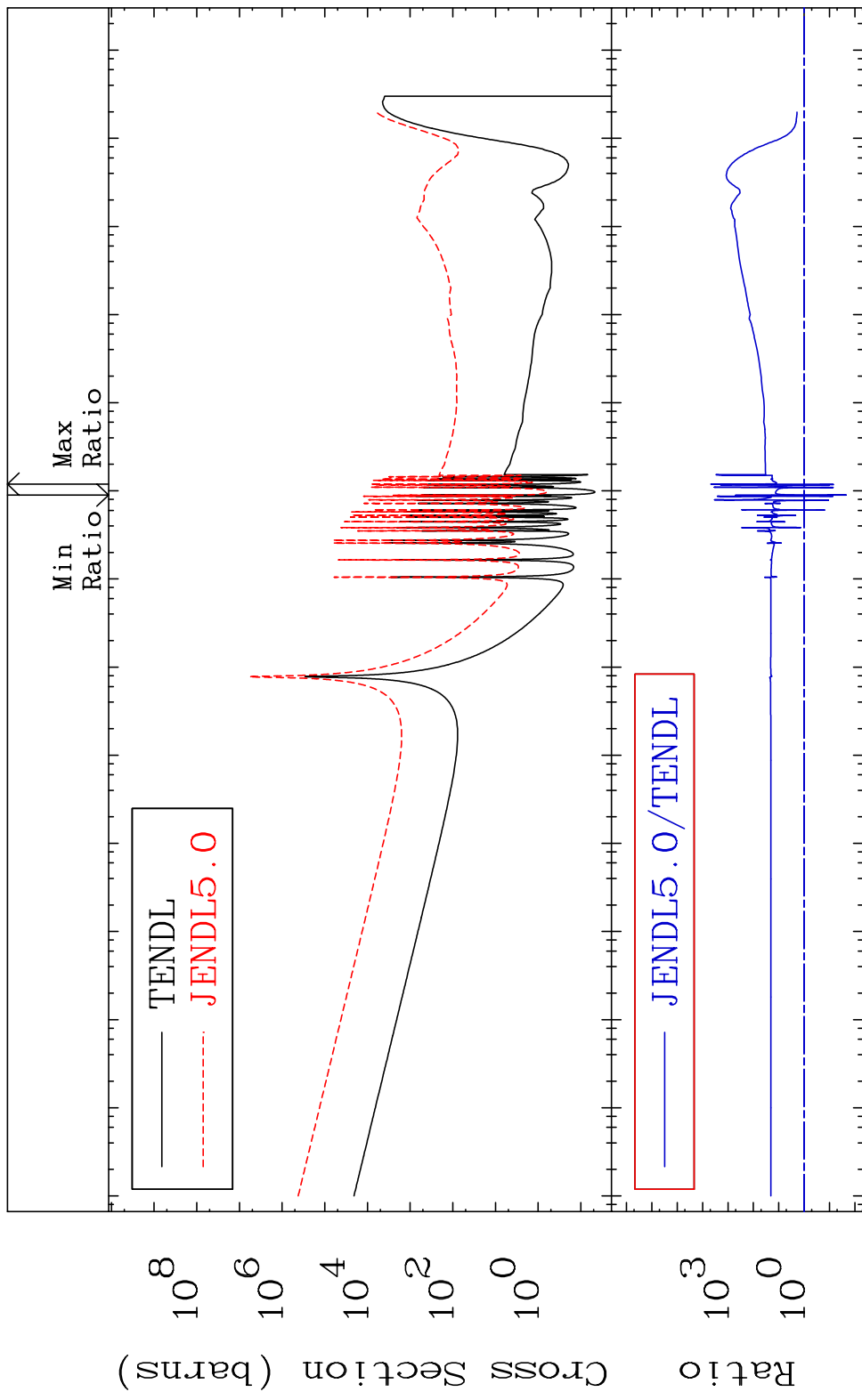


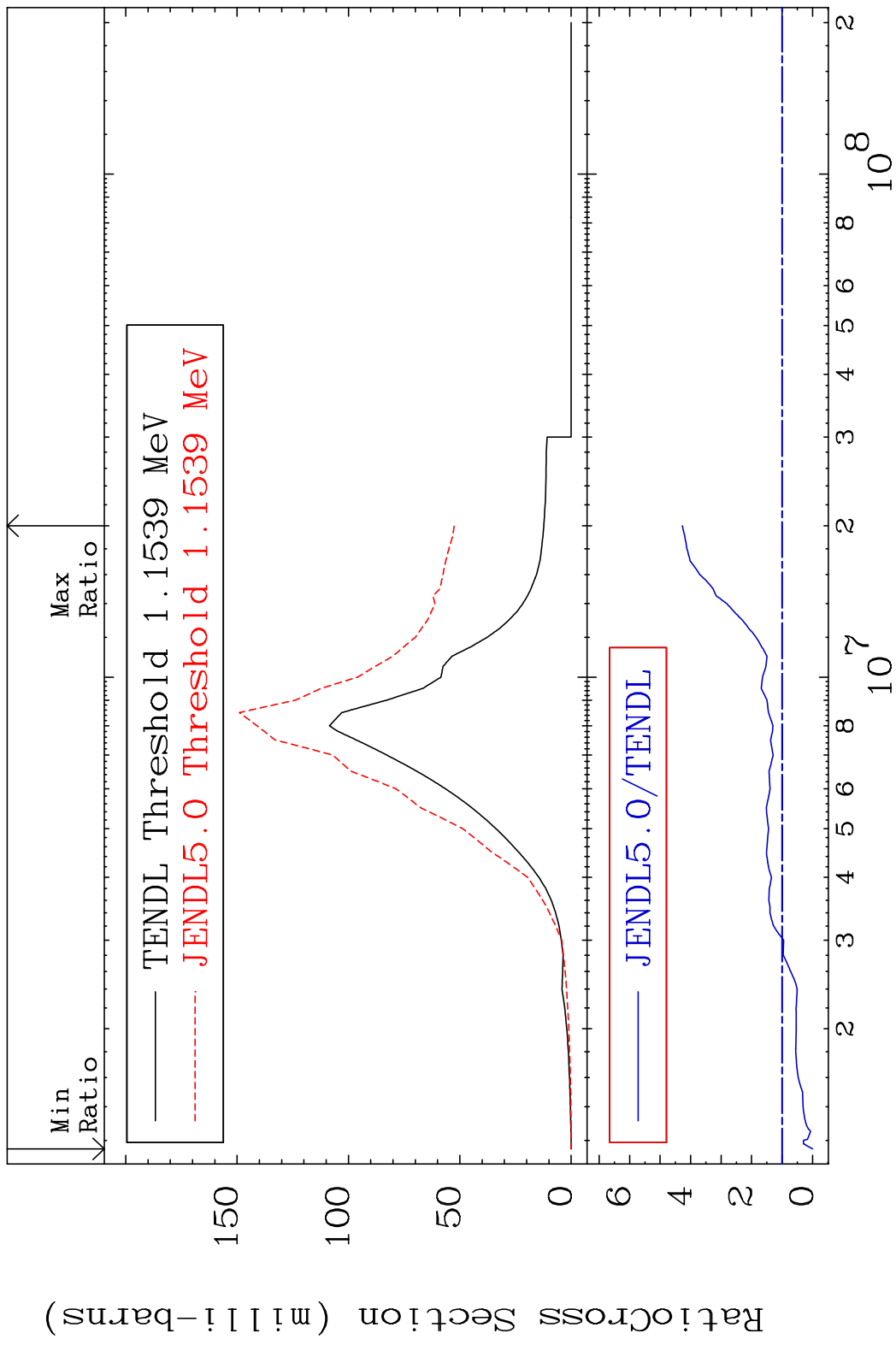
59

Incident Energy (eV)

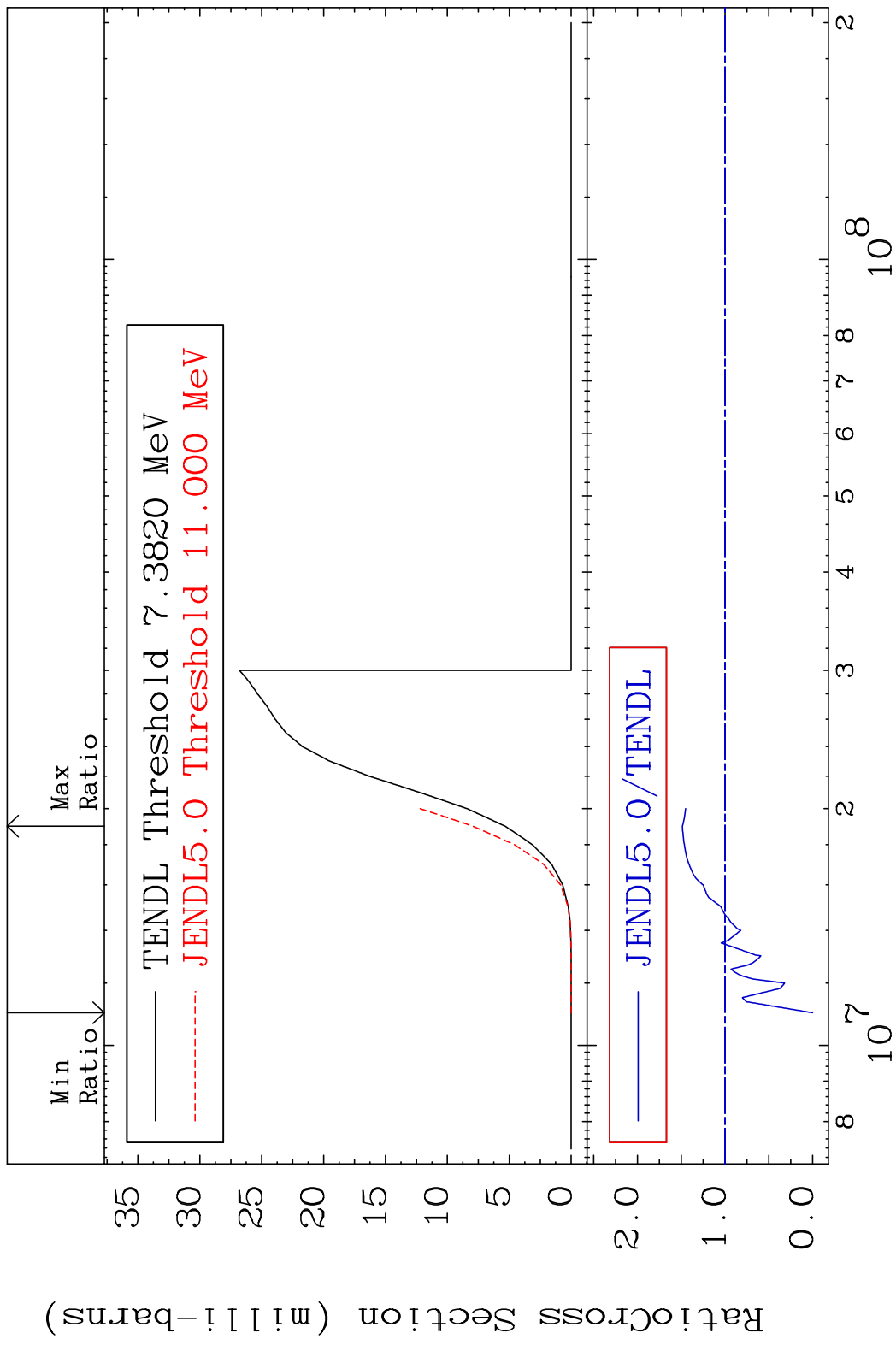
72-Hf-178

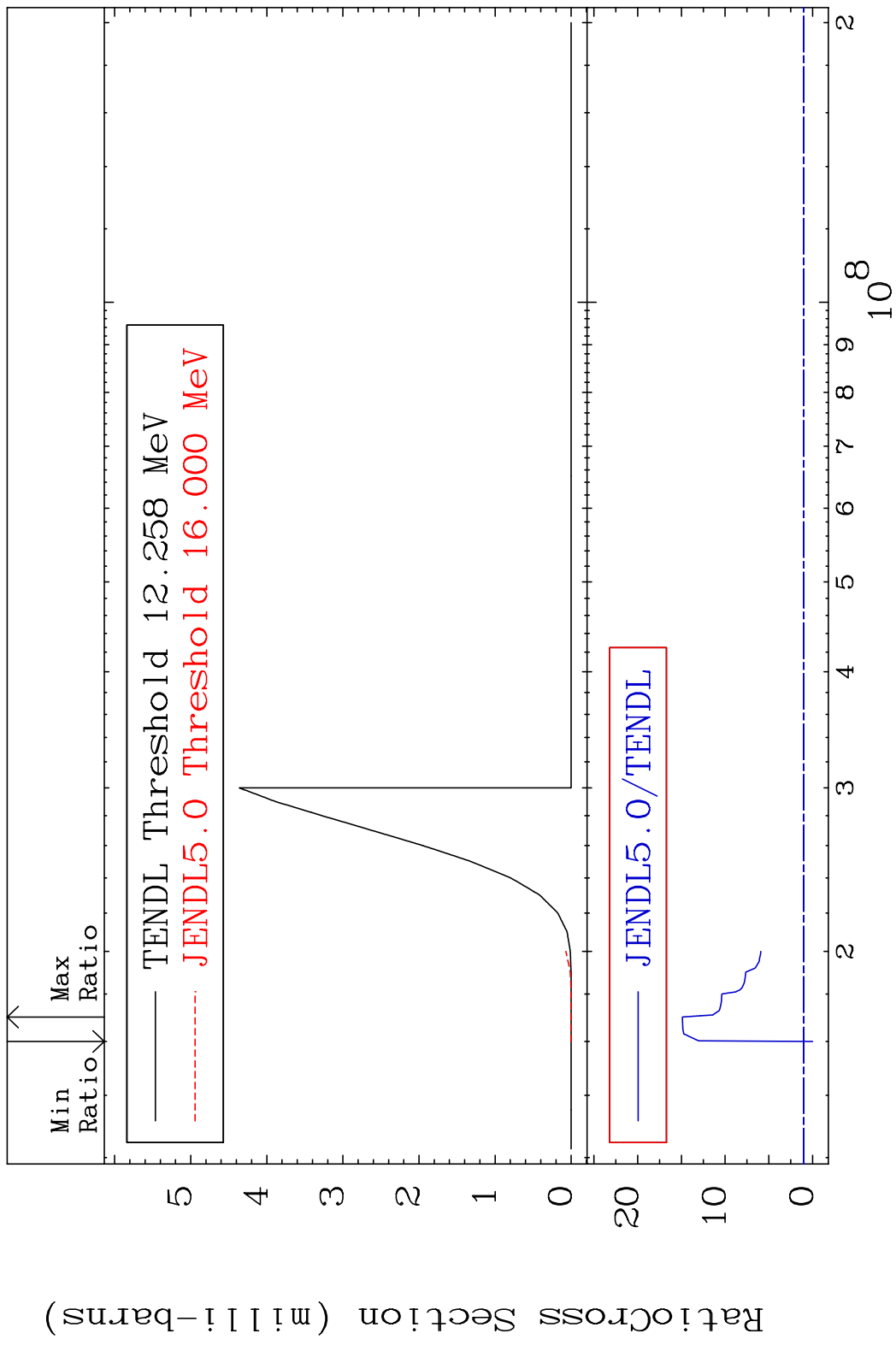
MAT 7237 Dpa disappearance (mt102 -120) 72-Hf-178  
 Cross Section -97.82 To 9999. %

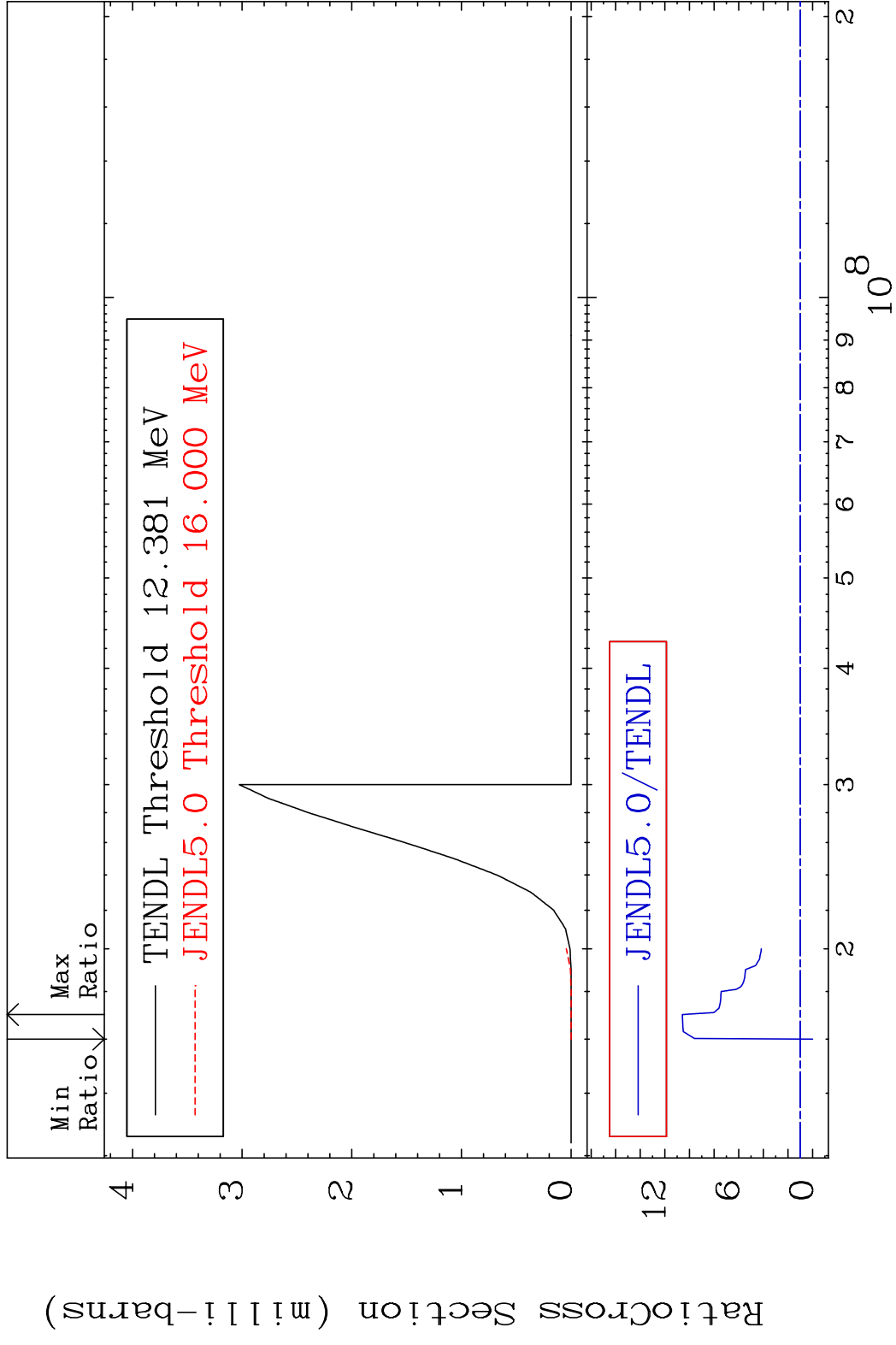


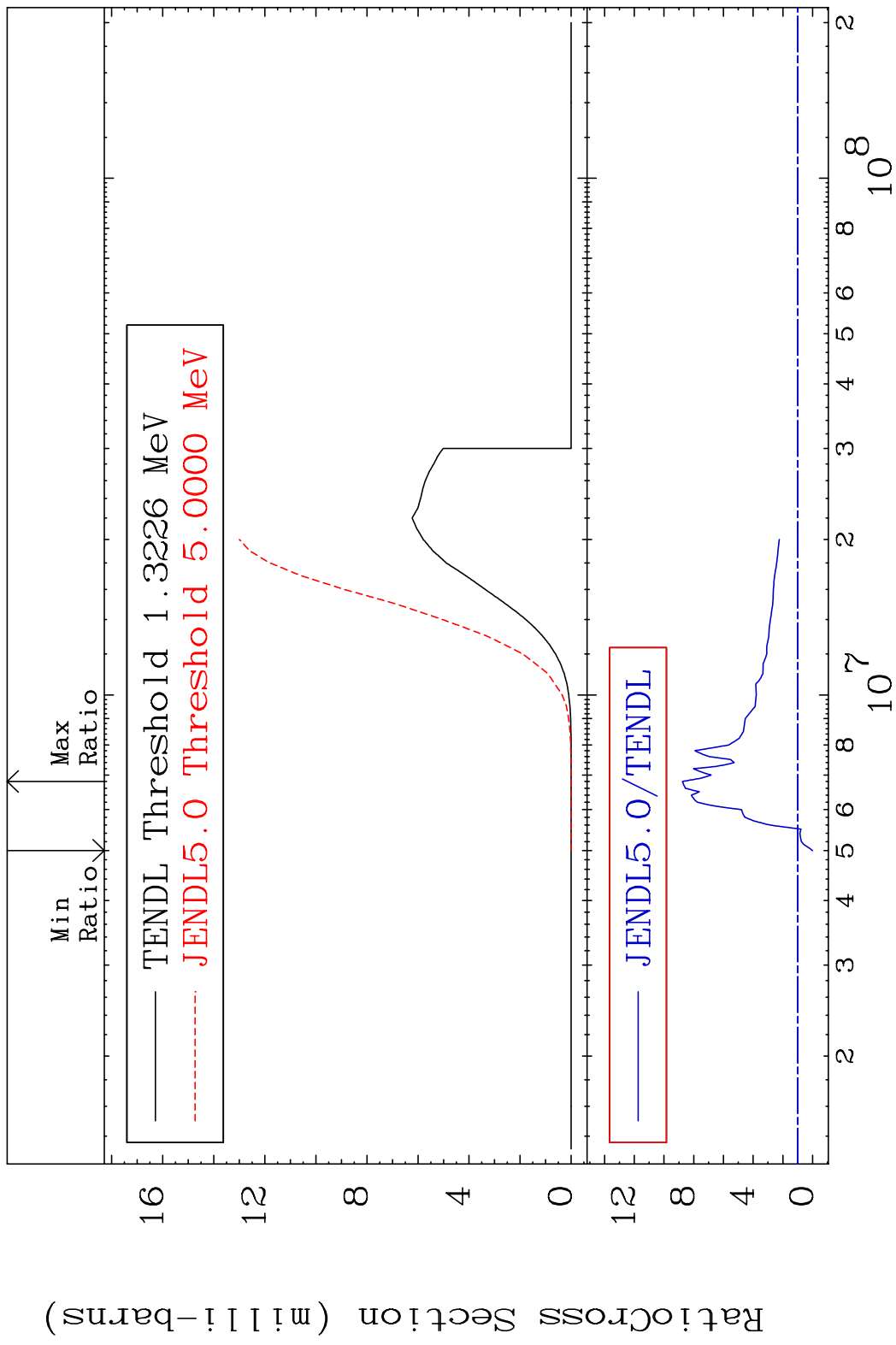


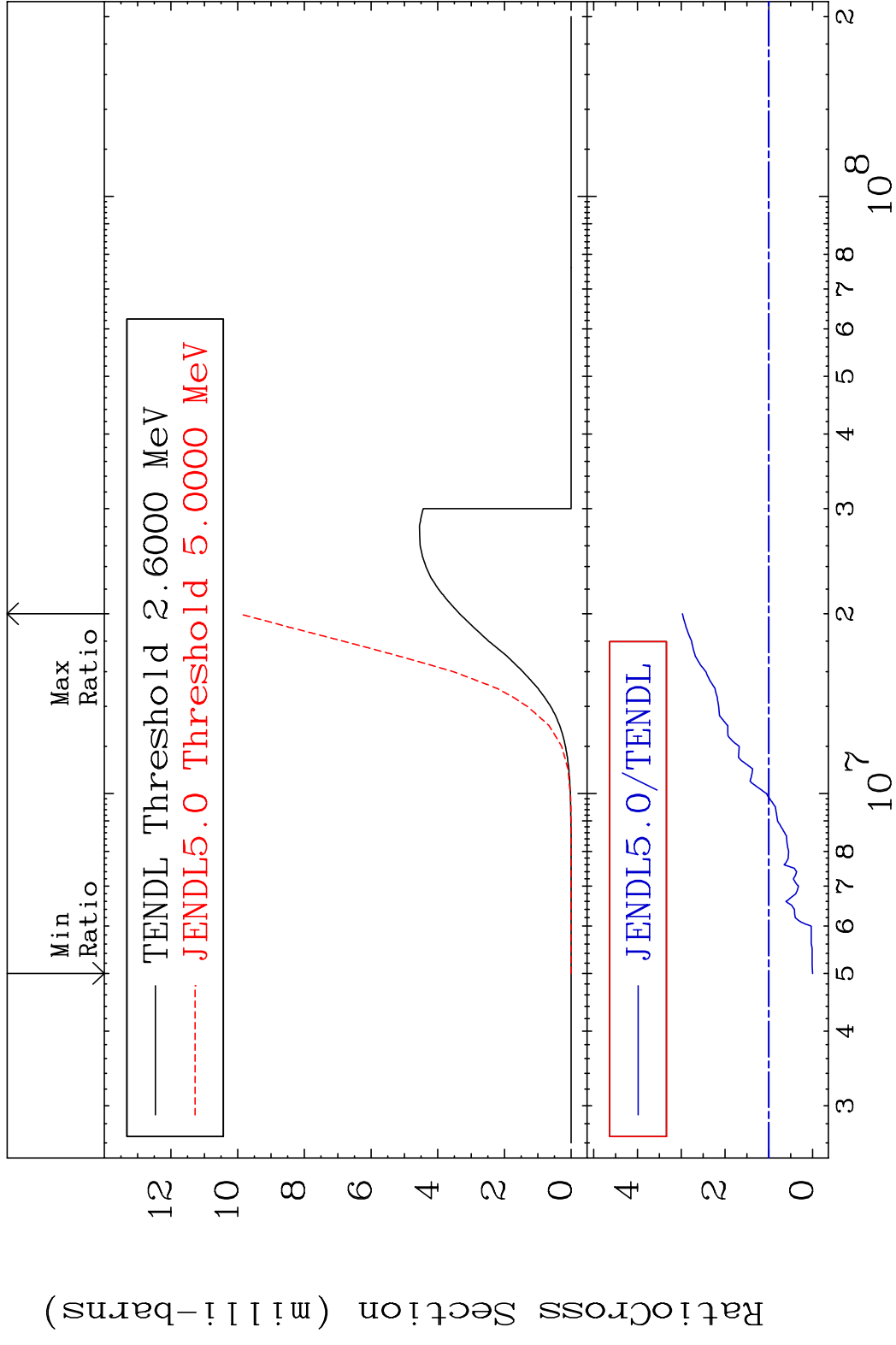
MAT 7237 (n, n') p:71-Lu-177g 72-Hf-178  
 Radionuclide Production Cross Section Ratio 48.73 %

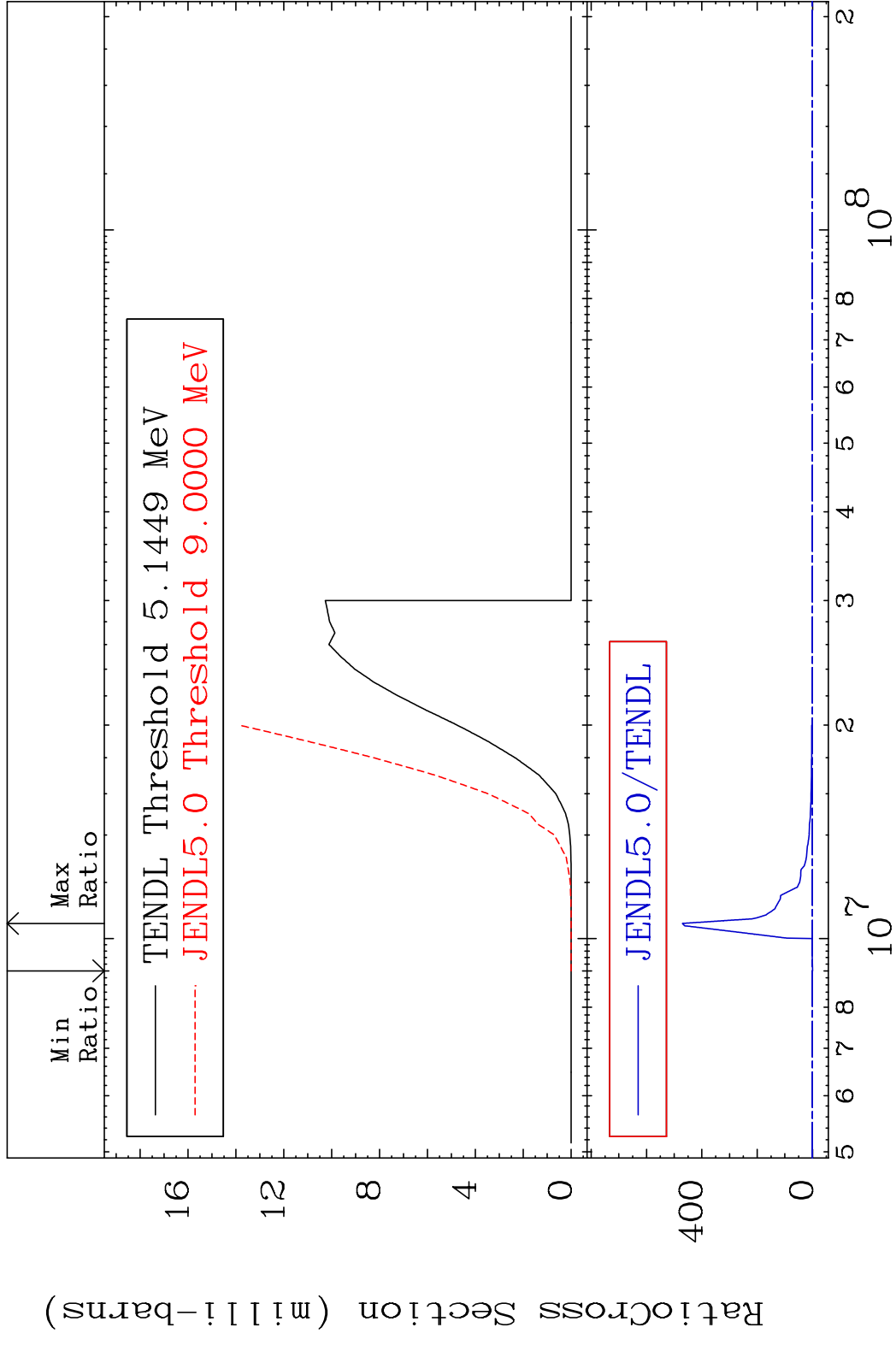


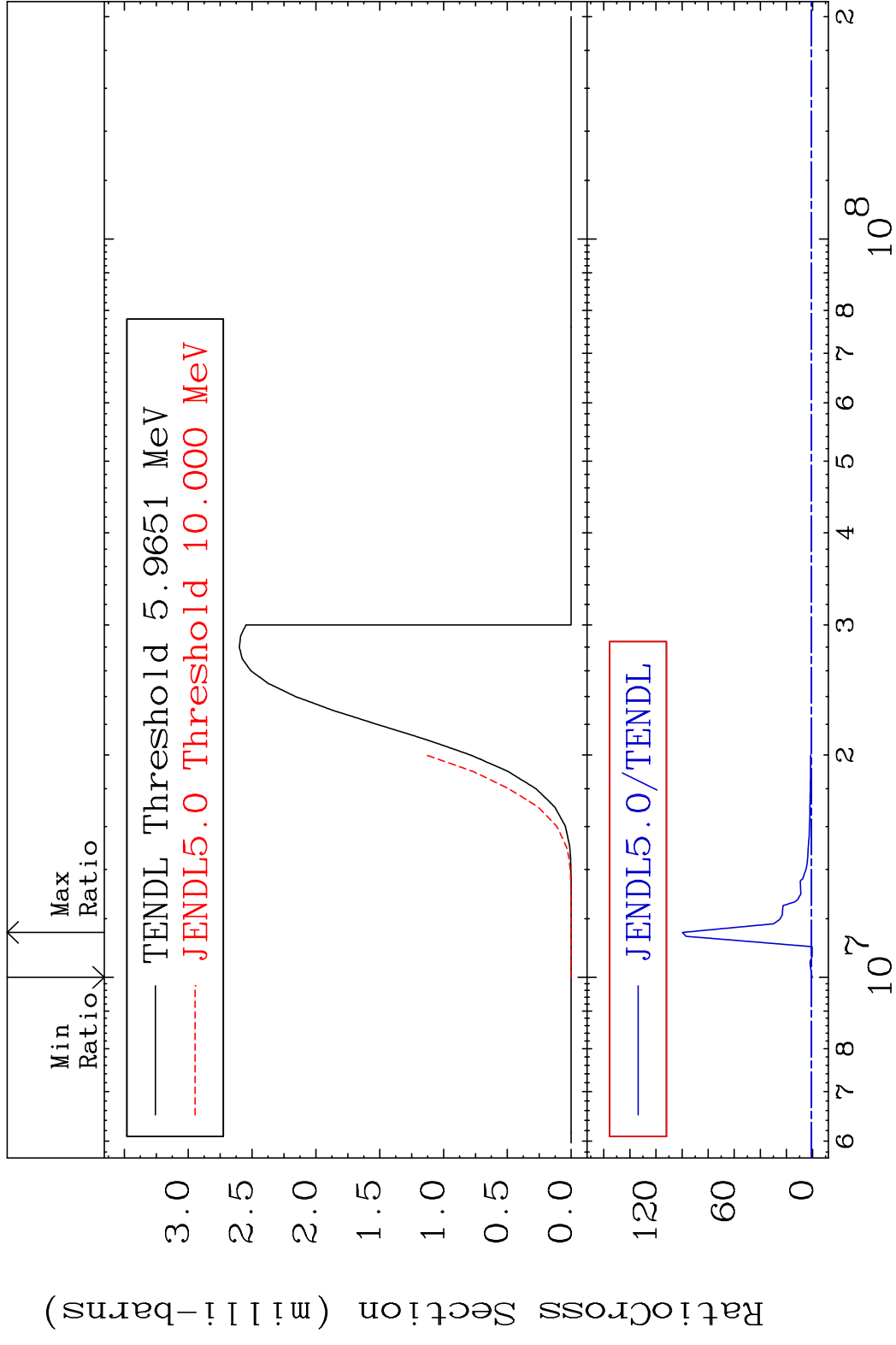




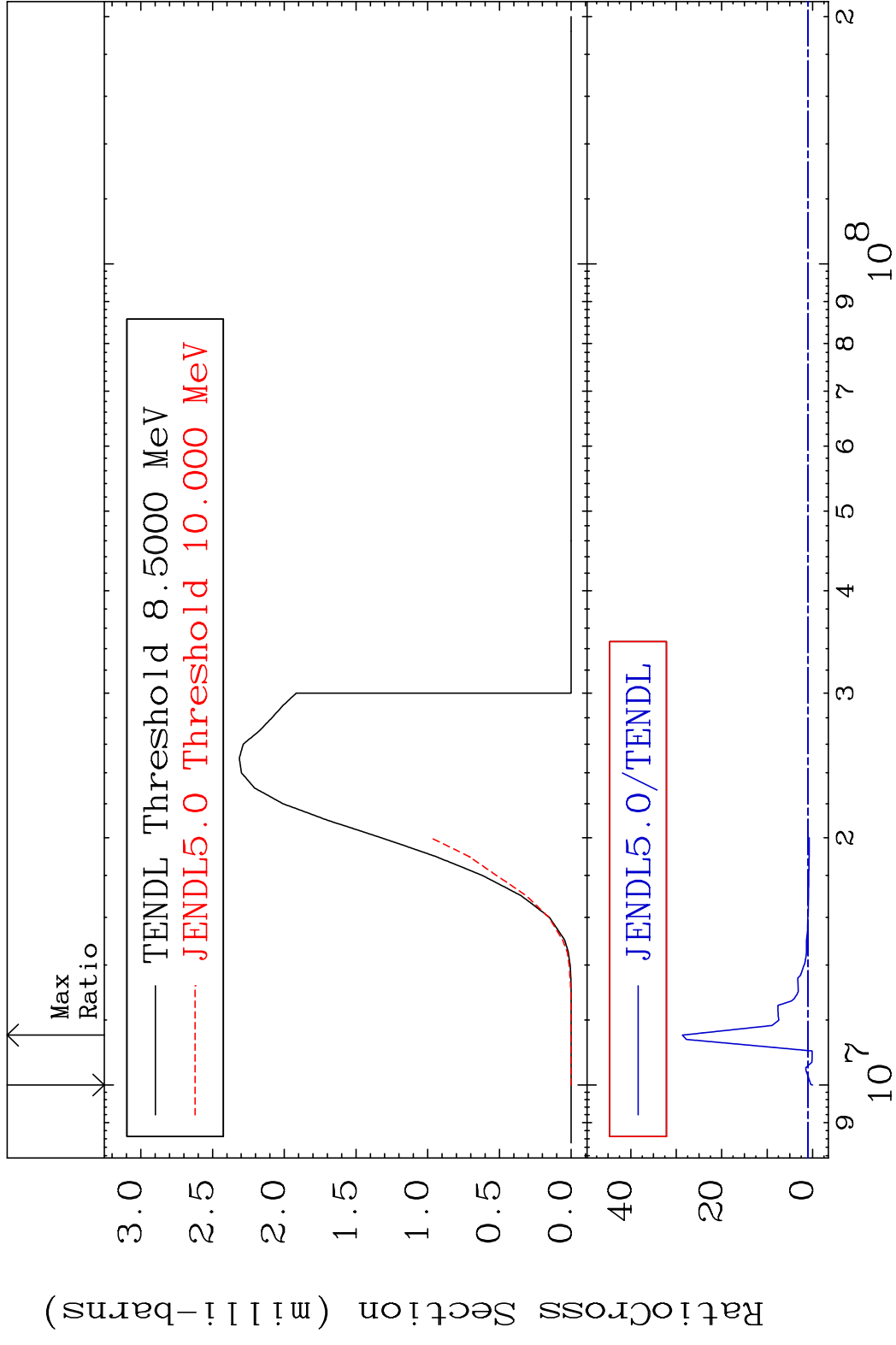




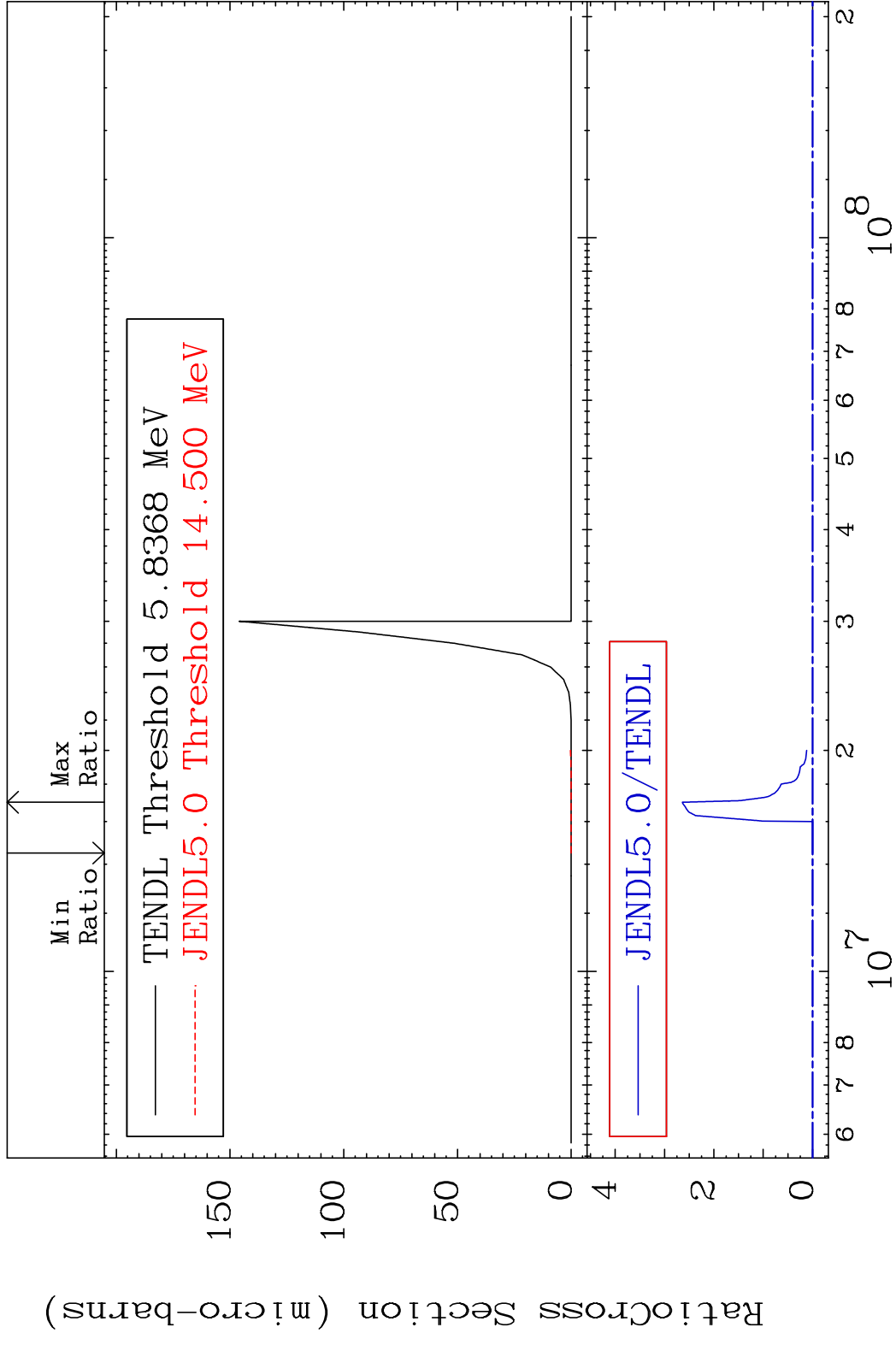




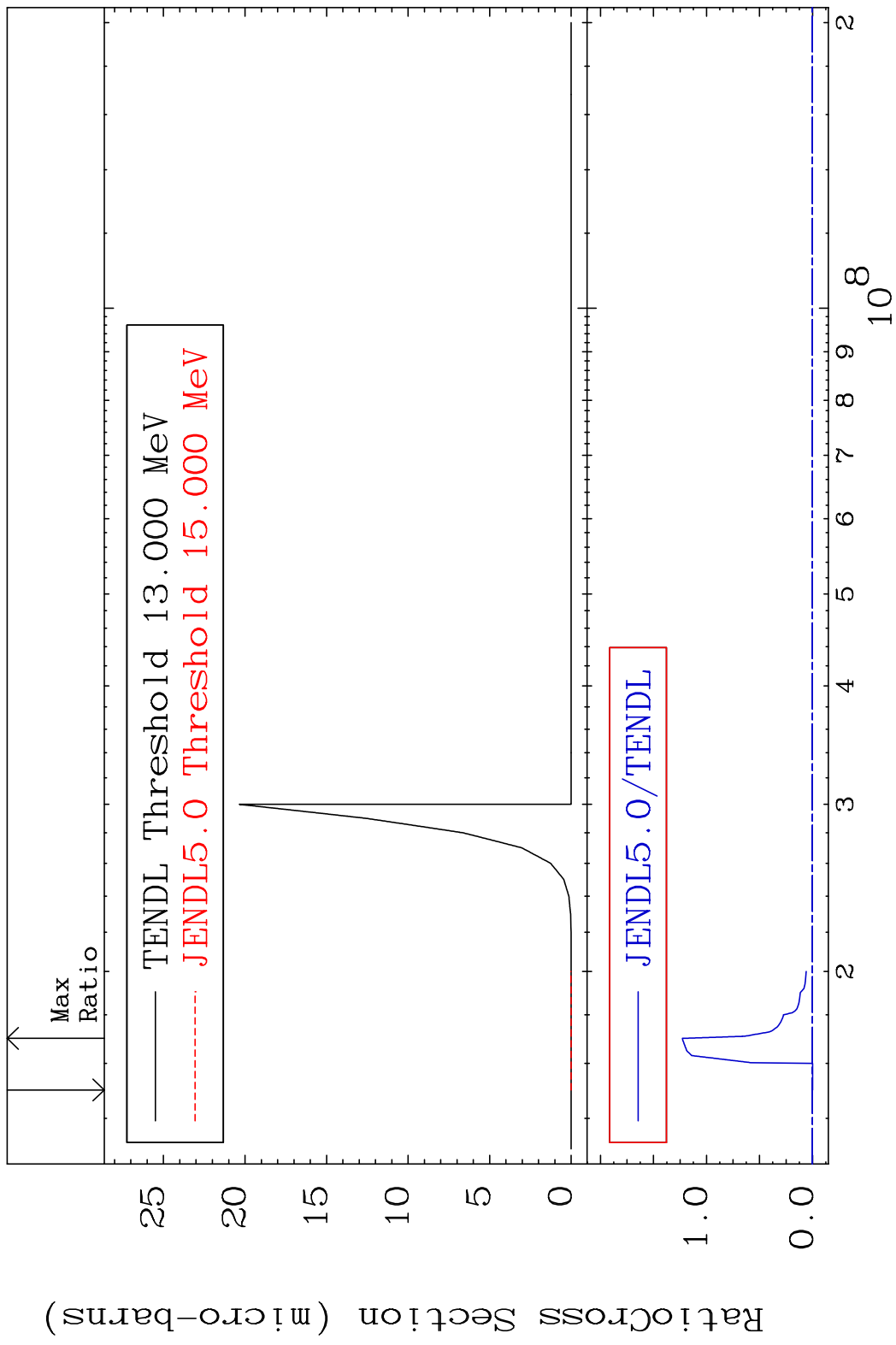
MAT 7237 (n, t):71-Lu-176m1 72-Hf-178  
 Radionuclide Production Cross Section Ratio 2766. %



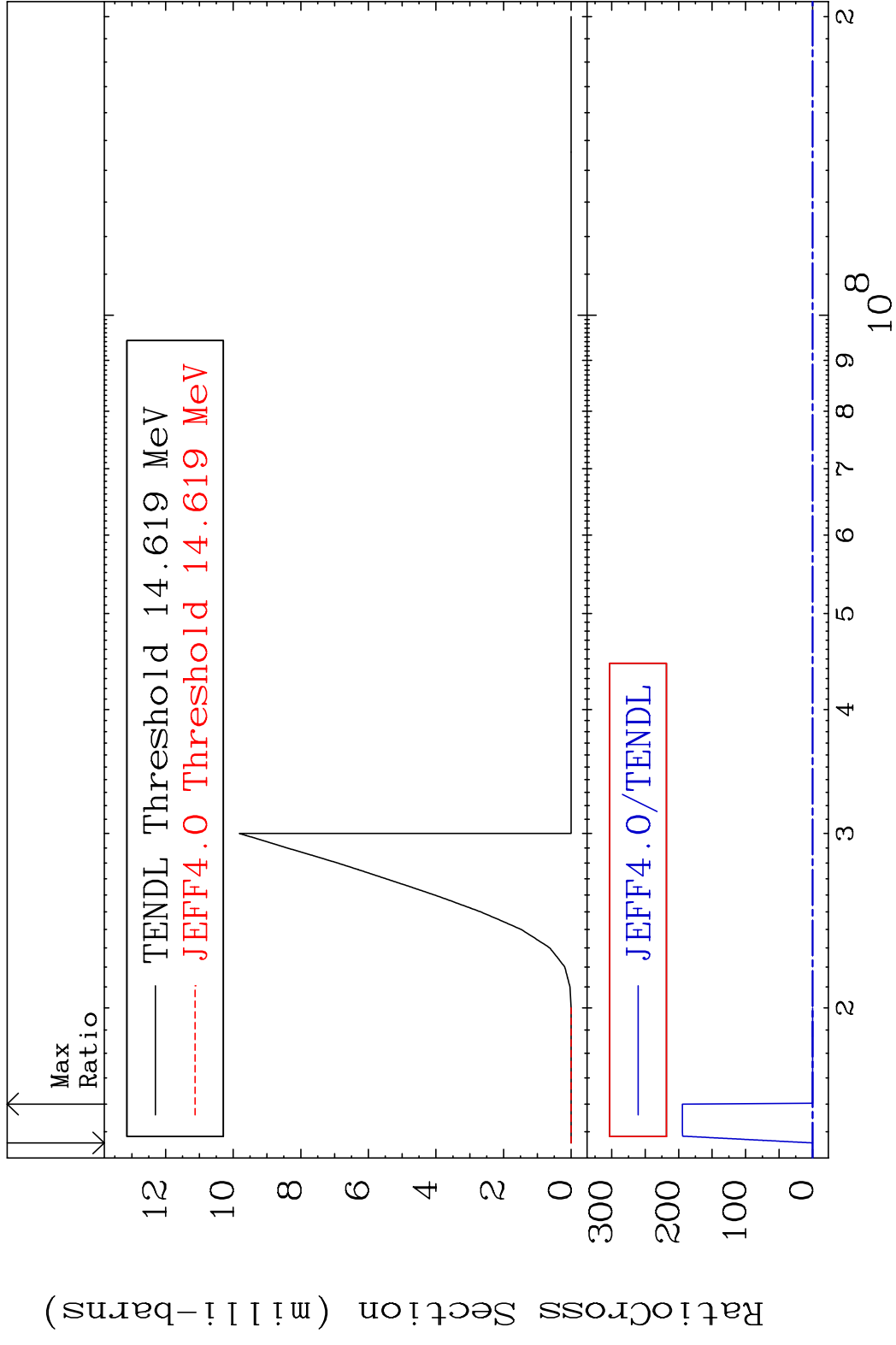
MAT 7237 (n, He-3) : 70-Yb-176g 72-Hf-178  
 Radionuclide Production Cross Section Ratio 9999. %

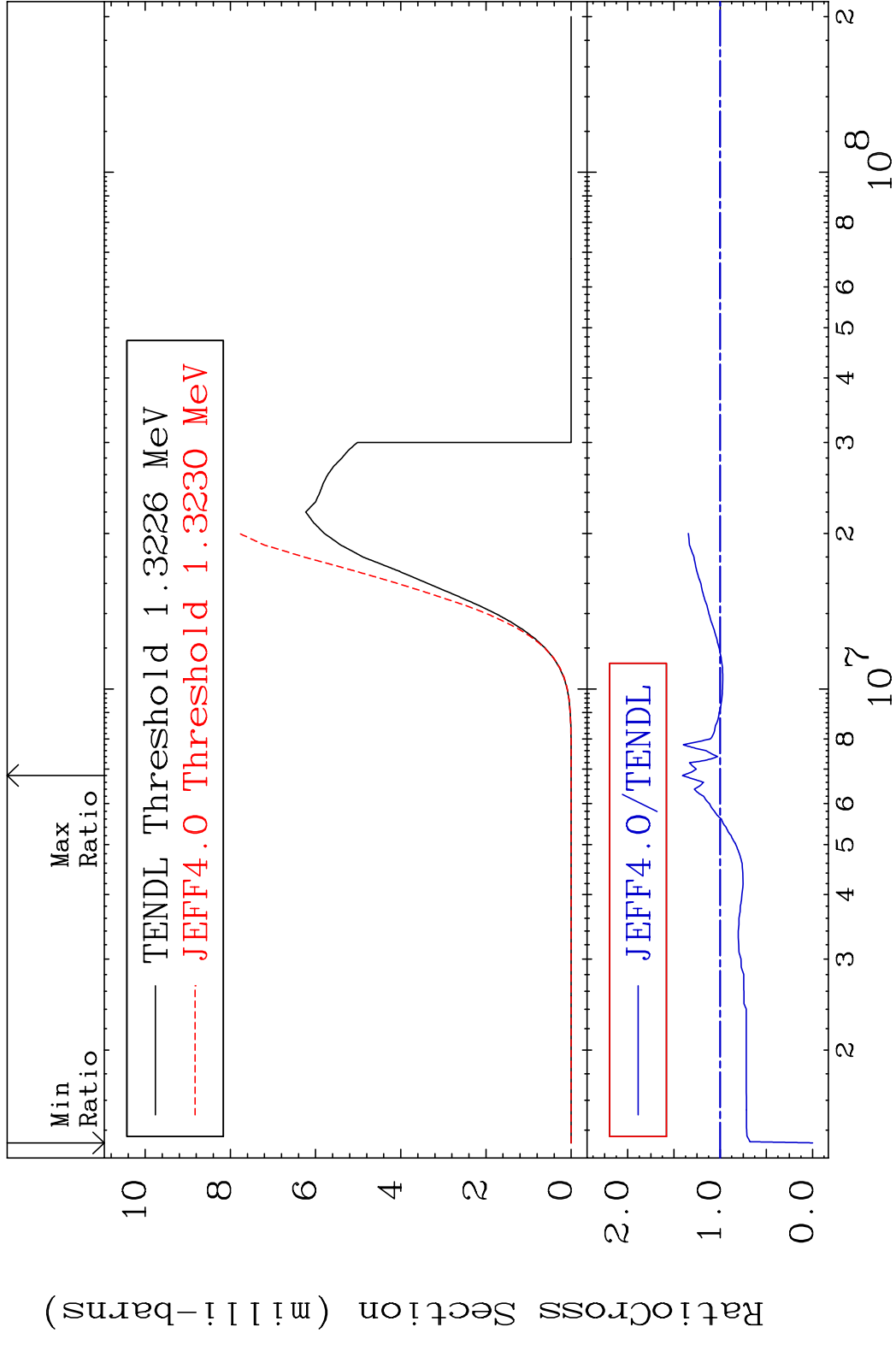


70 Incident Energy (eV) 72-Hf-178

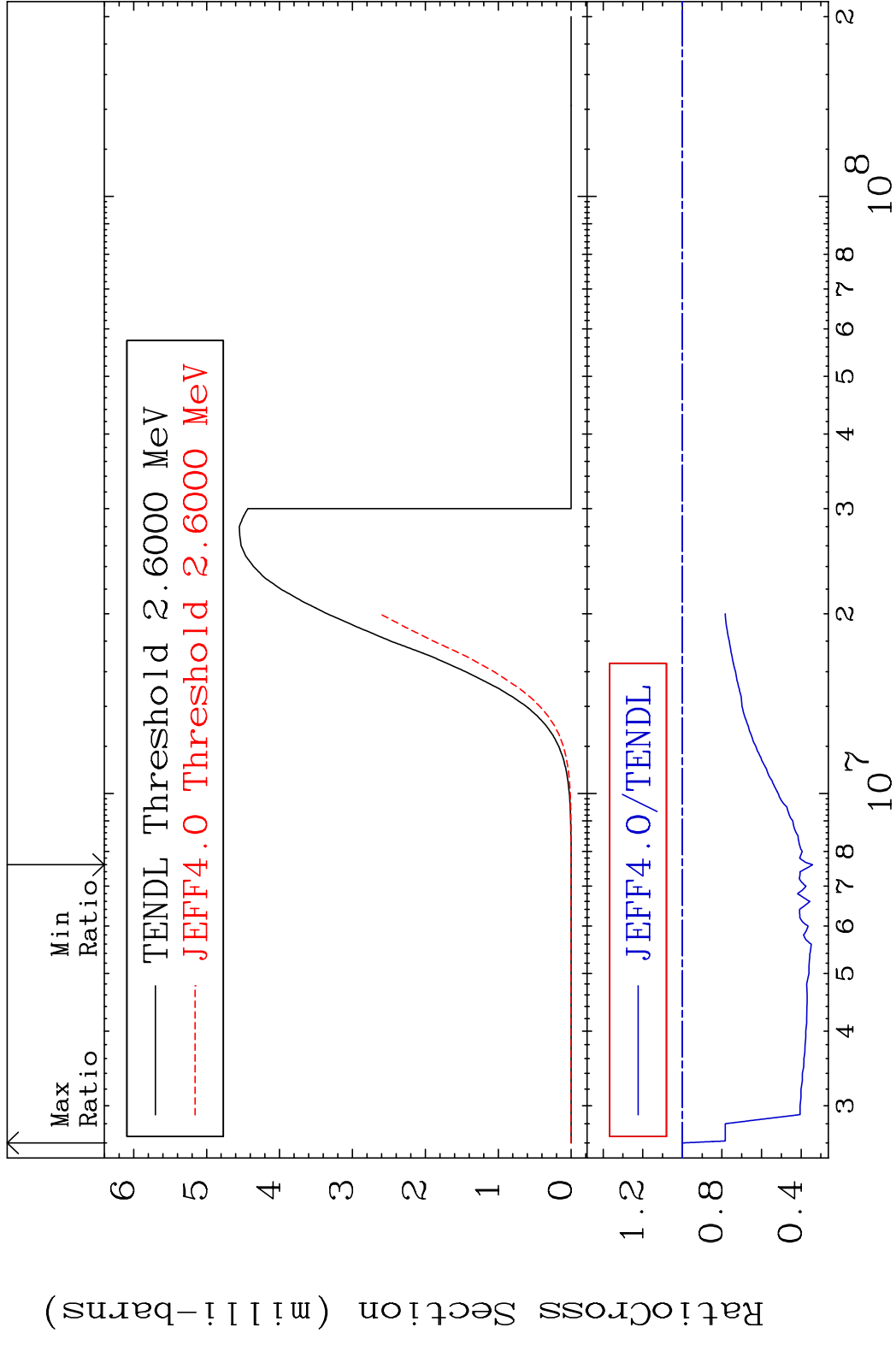






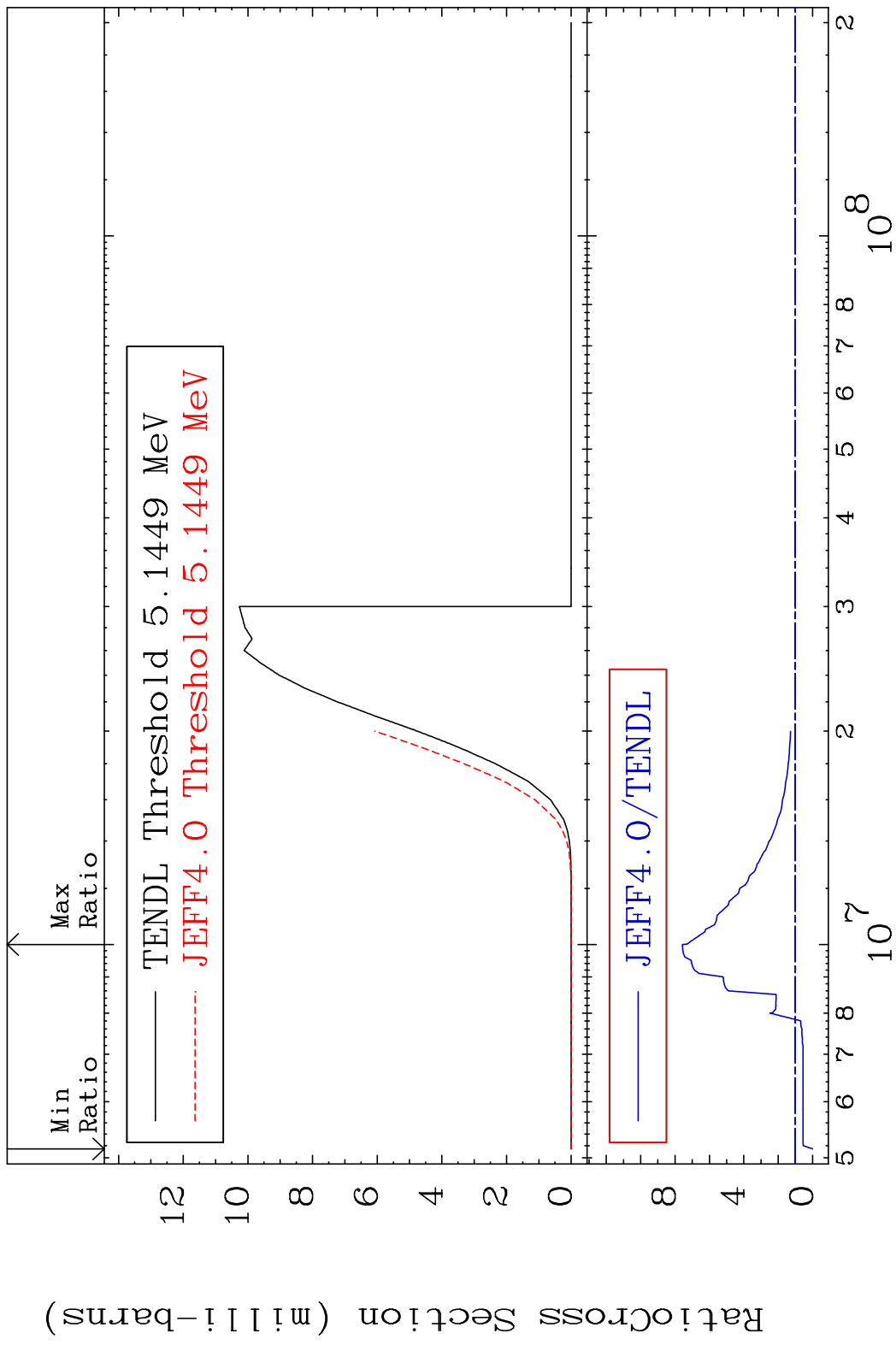


MAT 7237 (n, p): 71-Lu-178m3 72-Hf-178  
 Radionuclide Production Cross Section 0.000 %

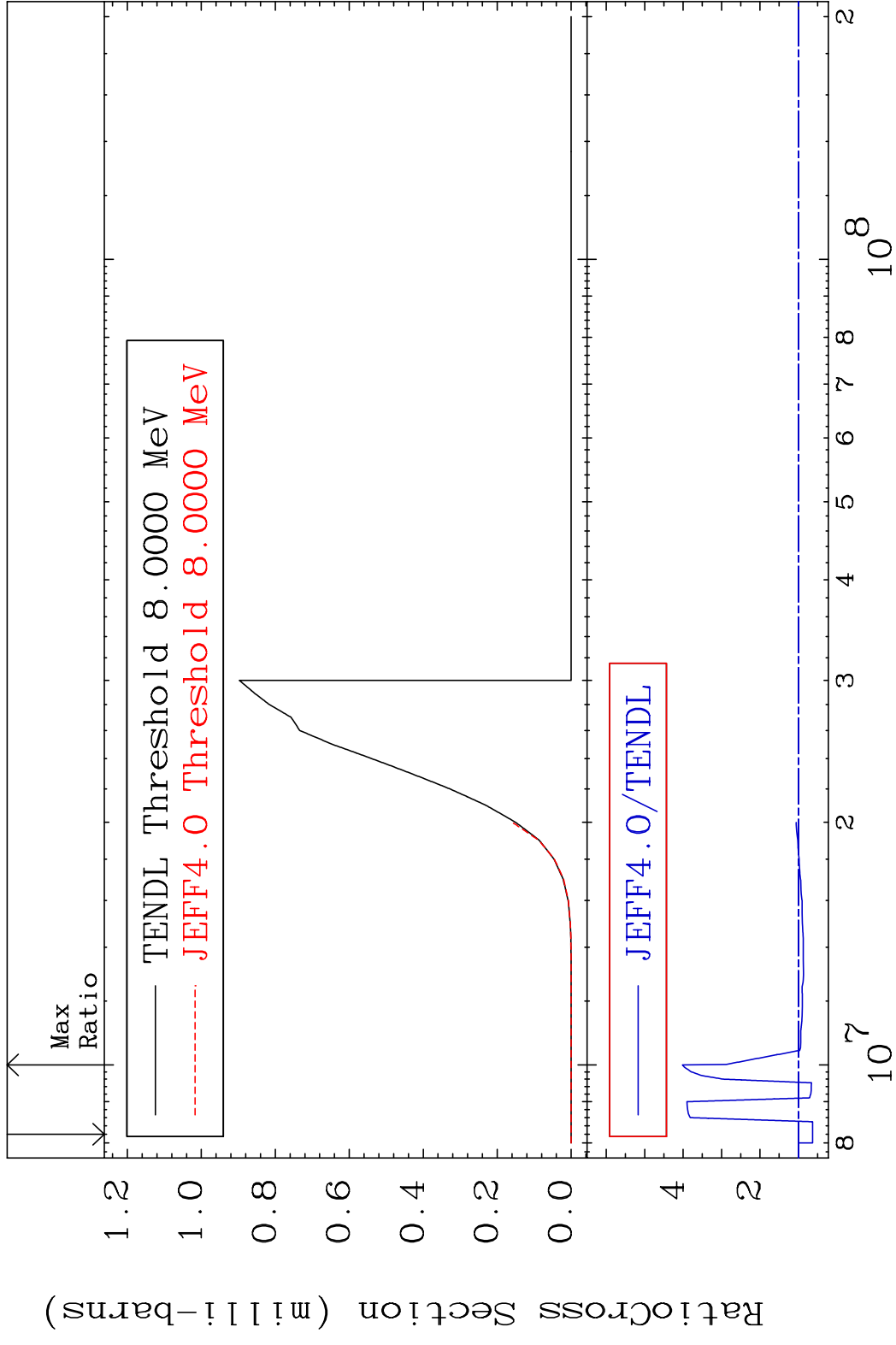


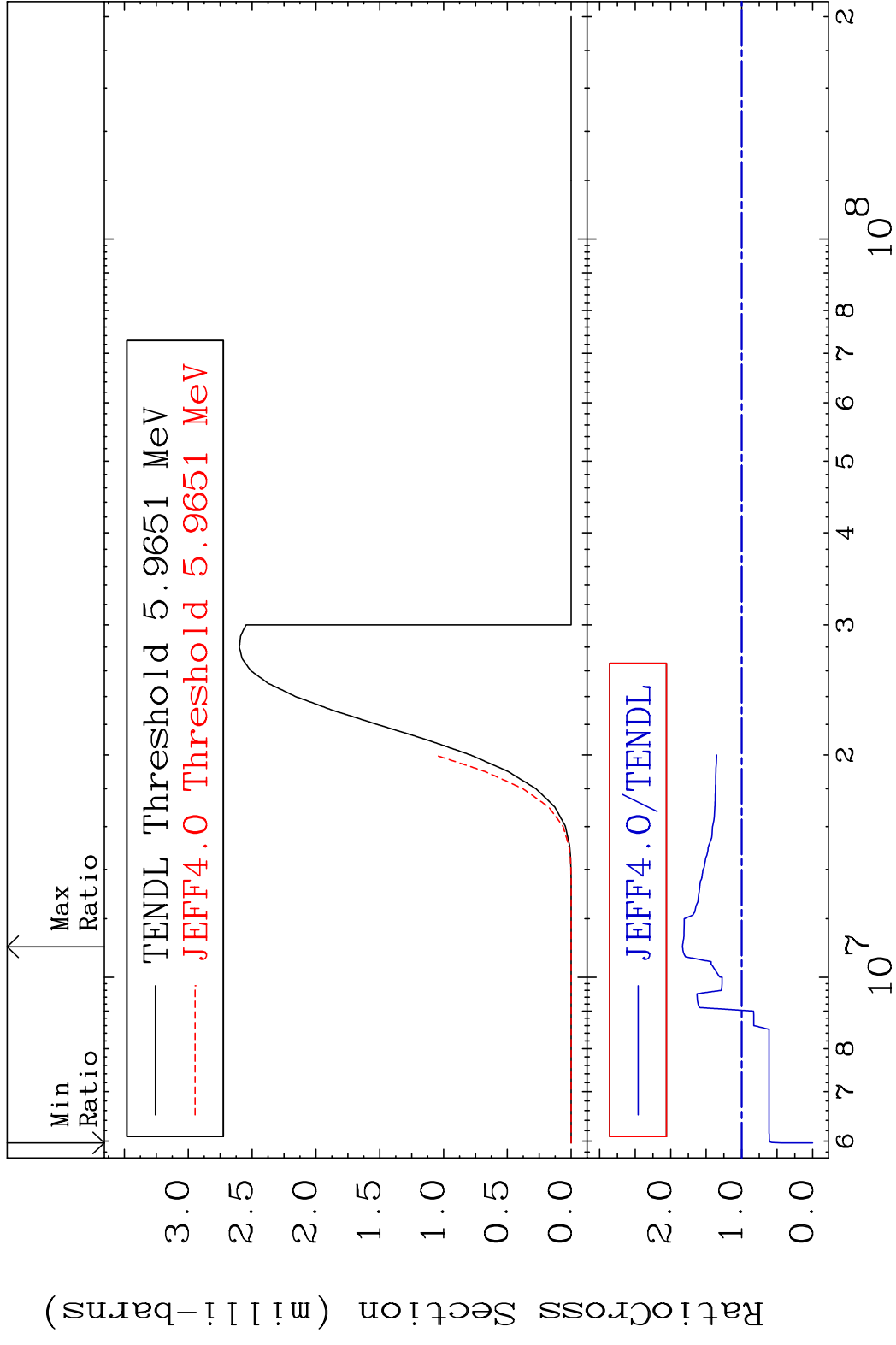
75 Incident Energy (eV) 72-Hf-178

MAT 7237 (n, d):71-Lu-177g 72-Hf-178  
 Radionuclide Production Cross Section 657.4 %

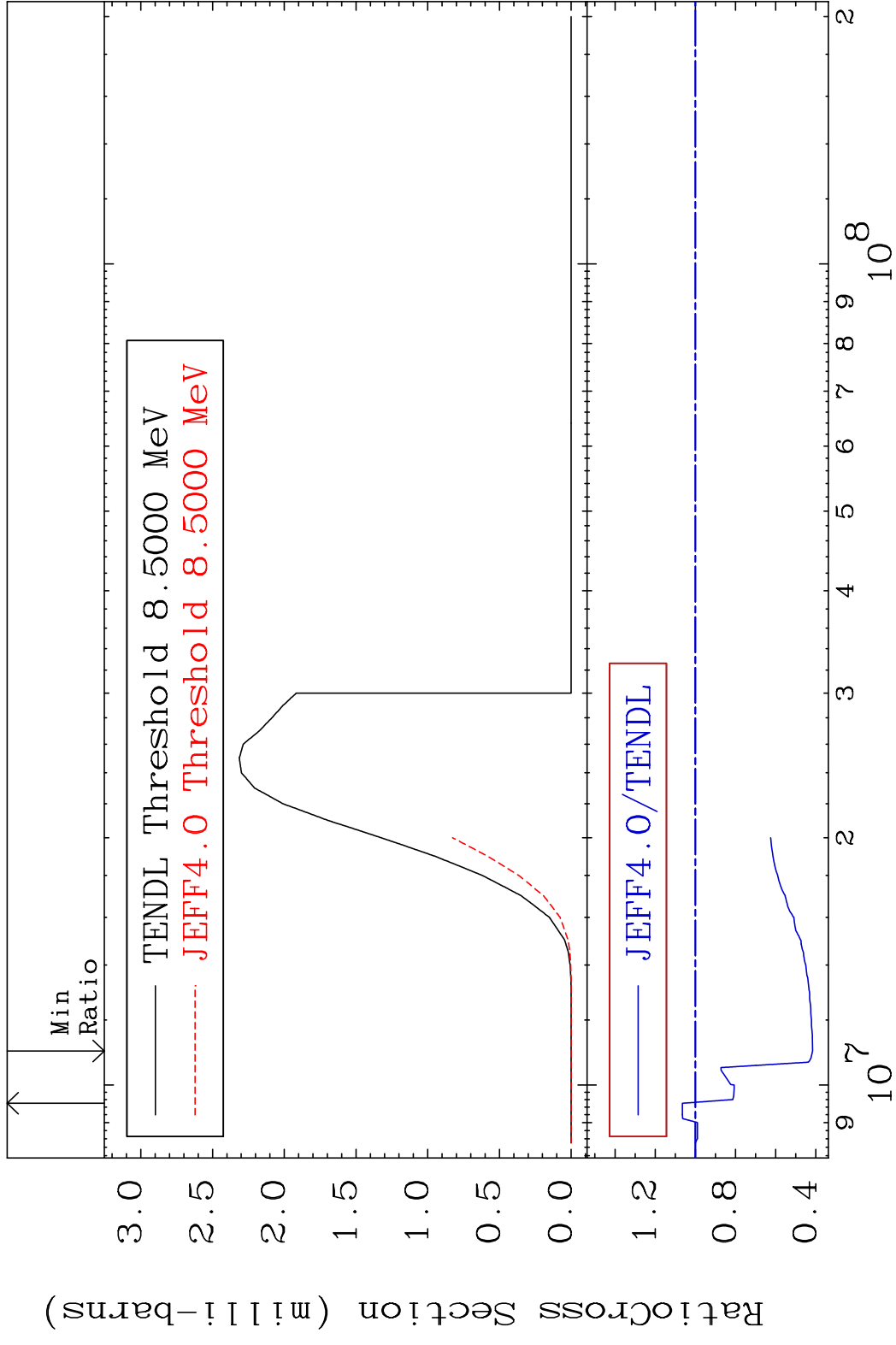


76 Incident Energy (eV) 72-Hf-178

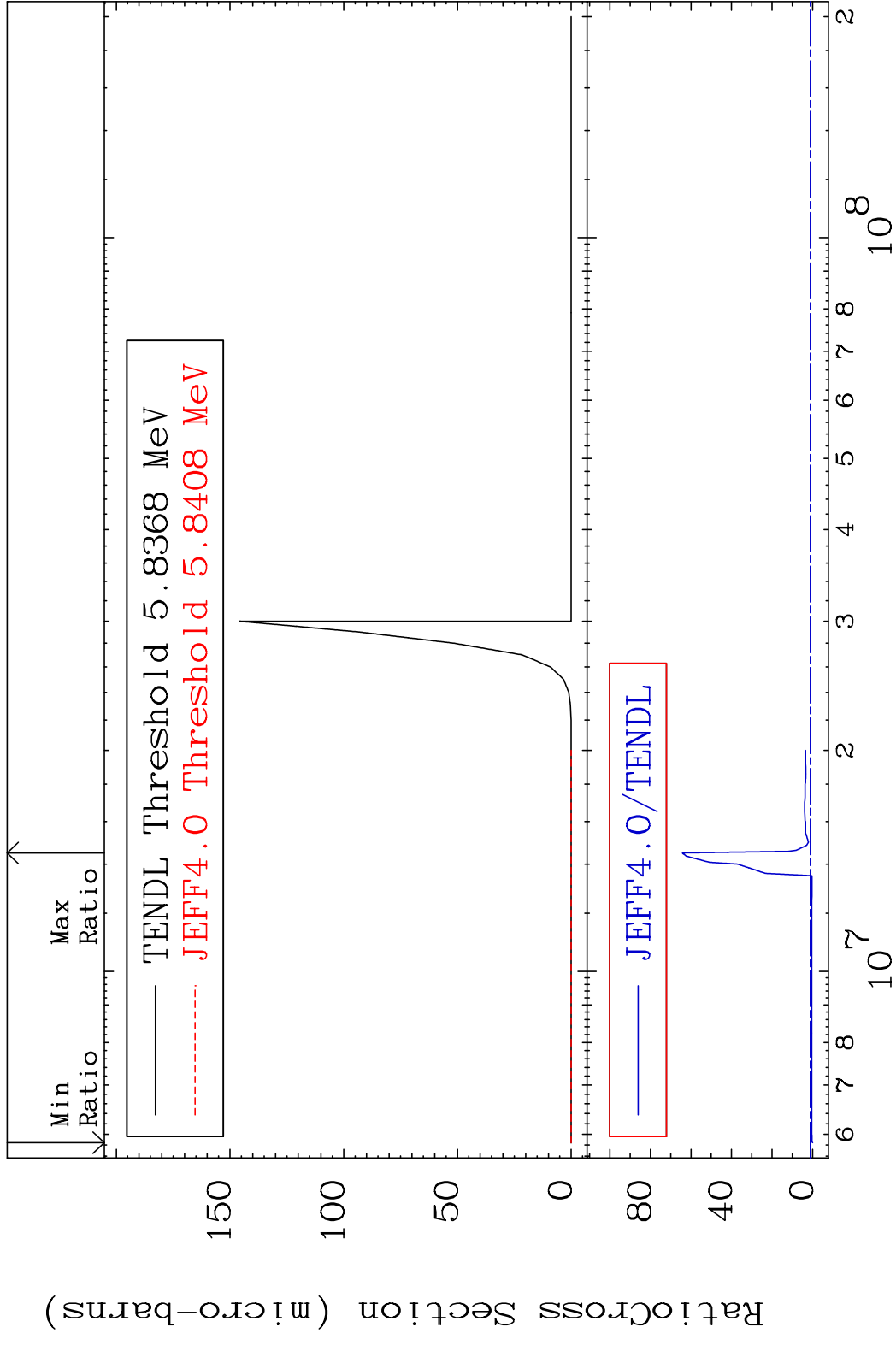




MAT 7237 (n, t):71-Lu-176m1 72-Hf-178  
 Radionuclide Production Cross Section 6.465 %



MAT 7237 (n, He-3): 70-Yb-176g 72-Hf-178  
 Radionuclide Production Cross Section Ratio 6324. %



80 72-Hf-178

