

Program Complot  
(Version 2021-1)

by

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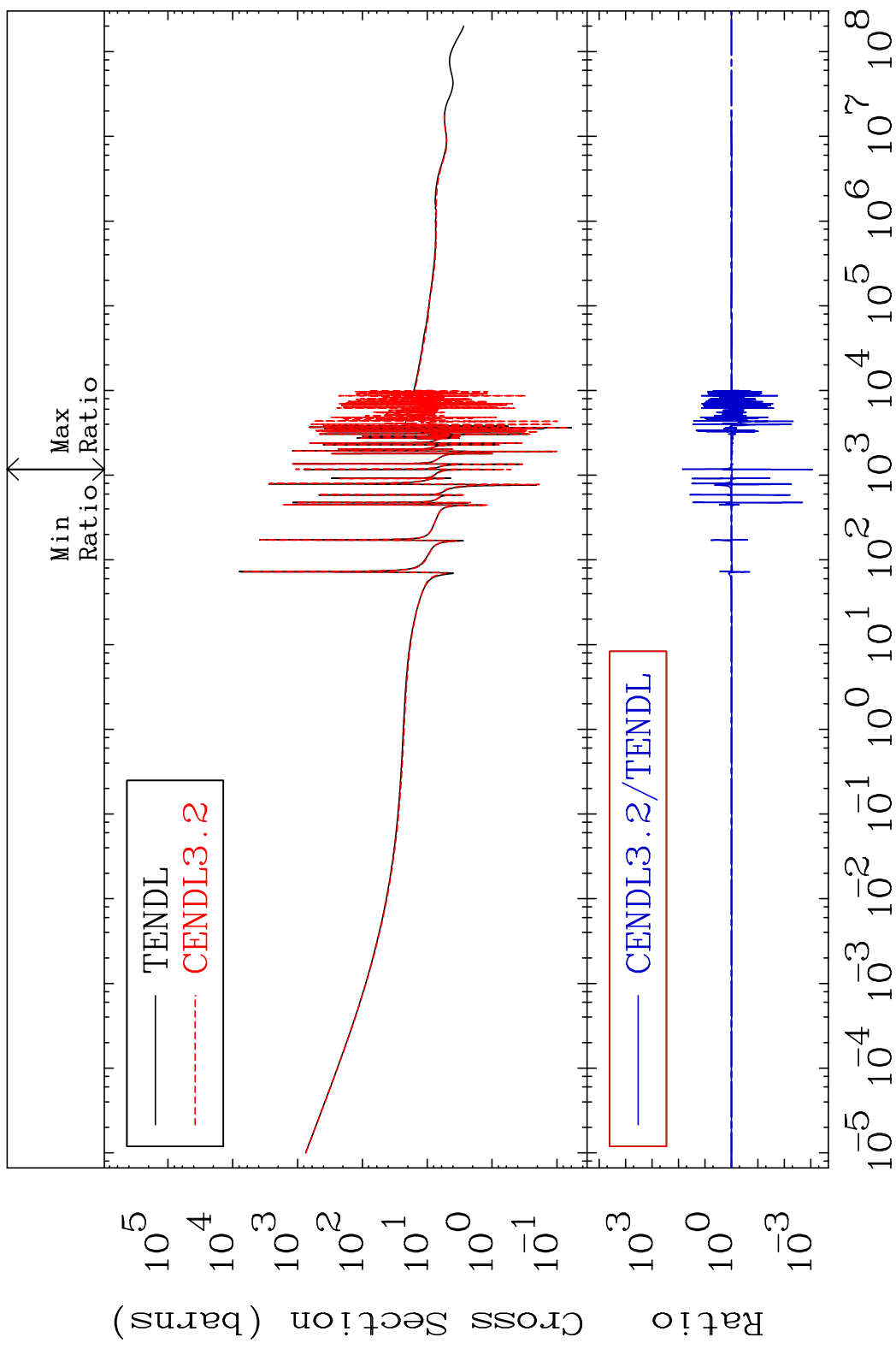
Press Mouse Button to Start

MAT 7243

Total

72-Hf-180

Cross Section -99.91 To 7073. %



1

Incident Energy (eV)

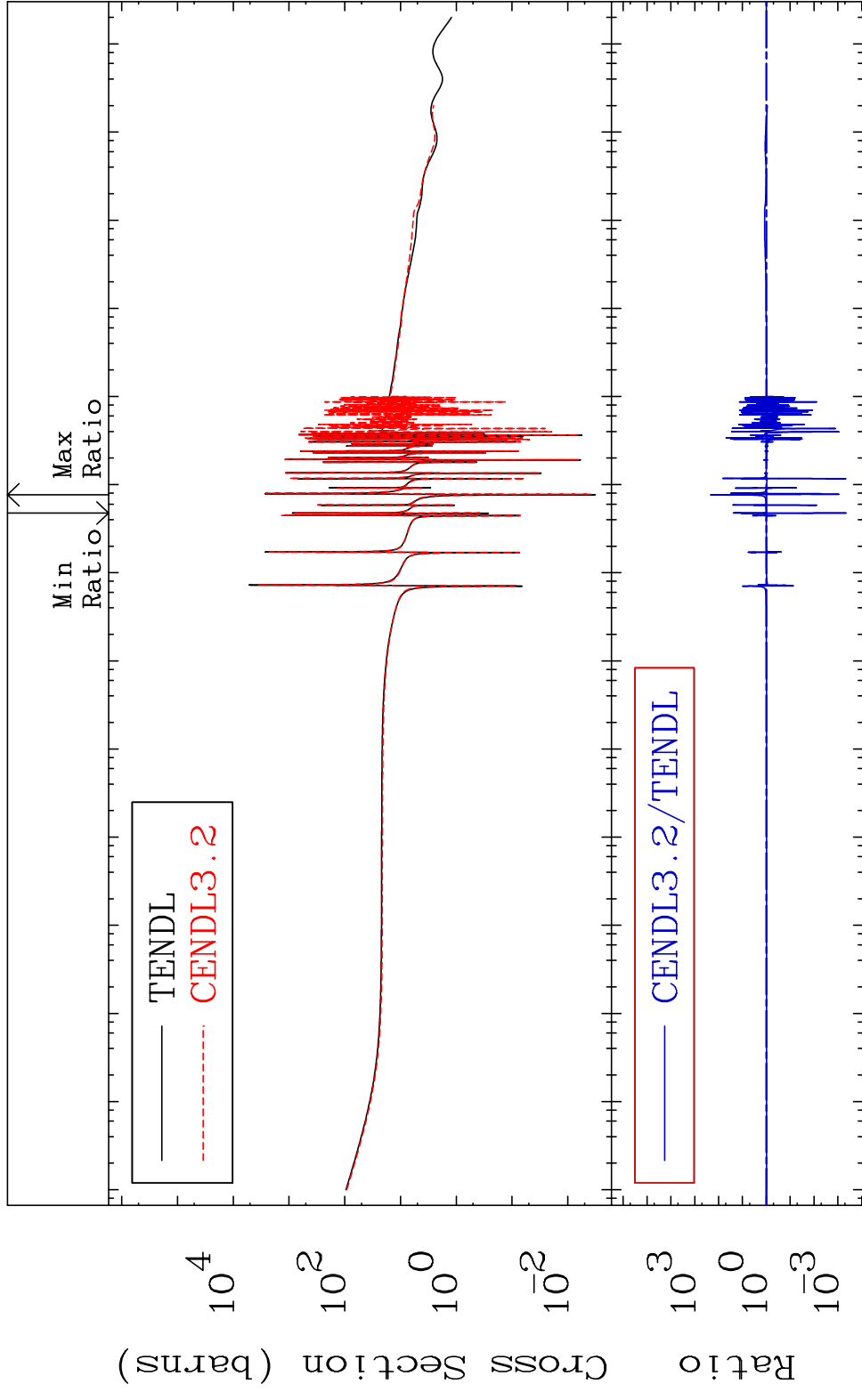
72-Hf-180

MAT 7243

72-Hf-180

Elastic

Cross Section -99.96 To 9999. %



2

Incident Energy (eV)

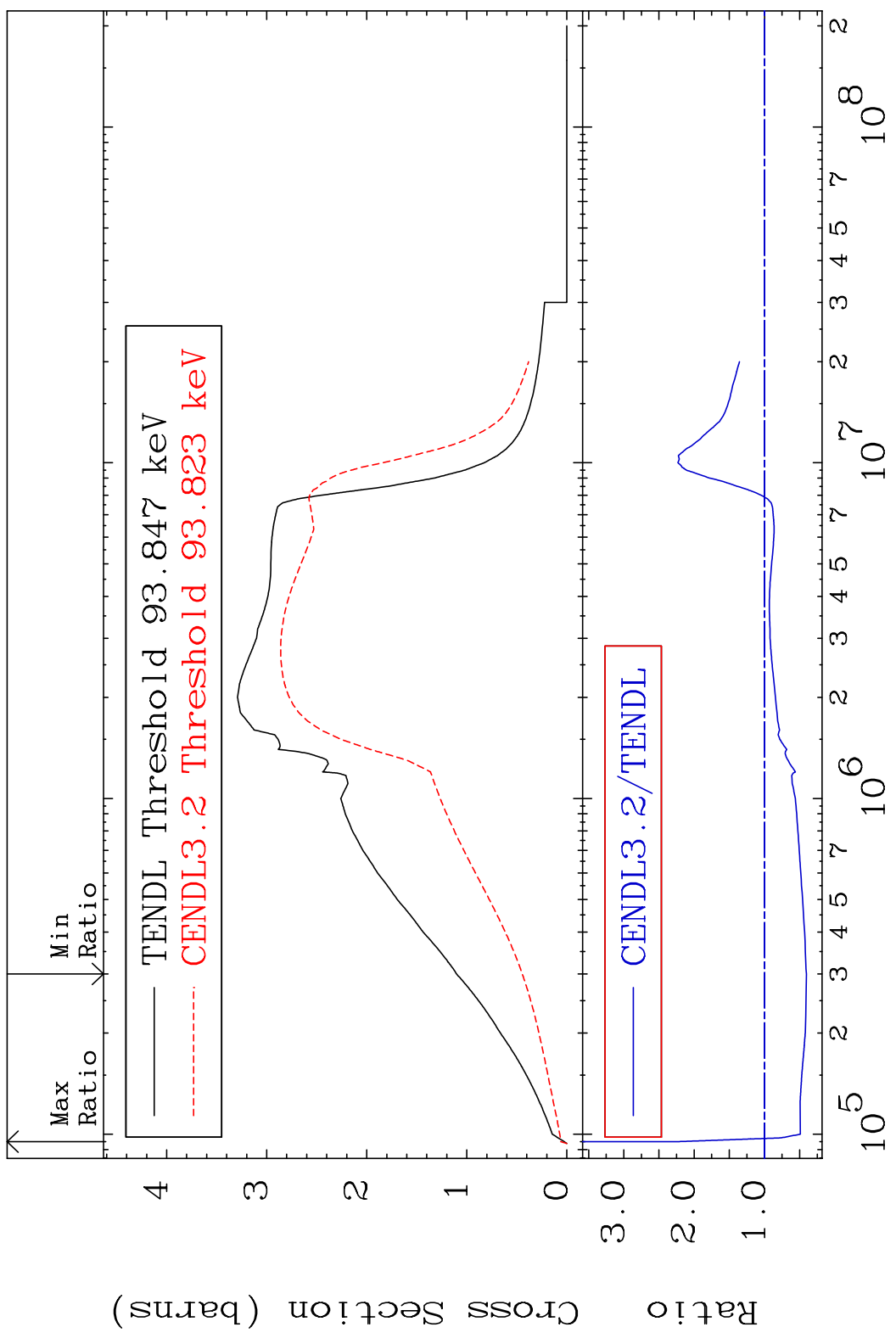
72-Hf-180

MAT 7243

Inelastic

72-Hf-180

Cross Section -59.62 To 124.1 %

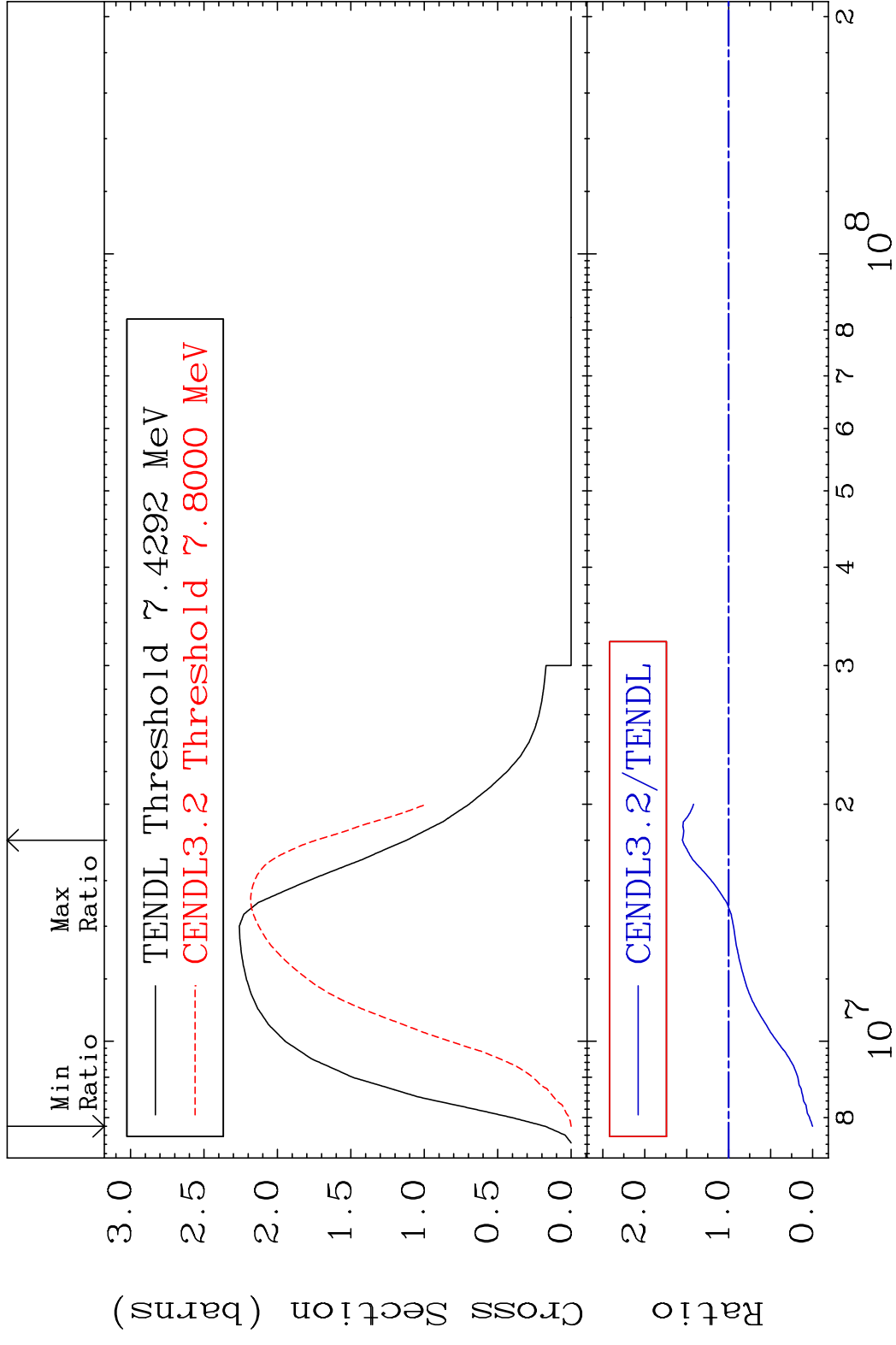


3

Incident Energy (eV)

72-Hf-180

MAT 7243 (n,2n) 72-Hf-180  
 Cross Section -100.0 To 55.24 %



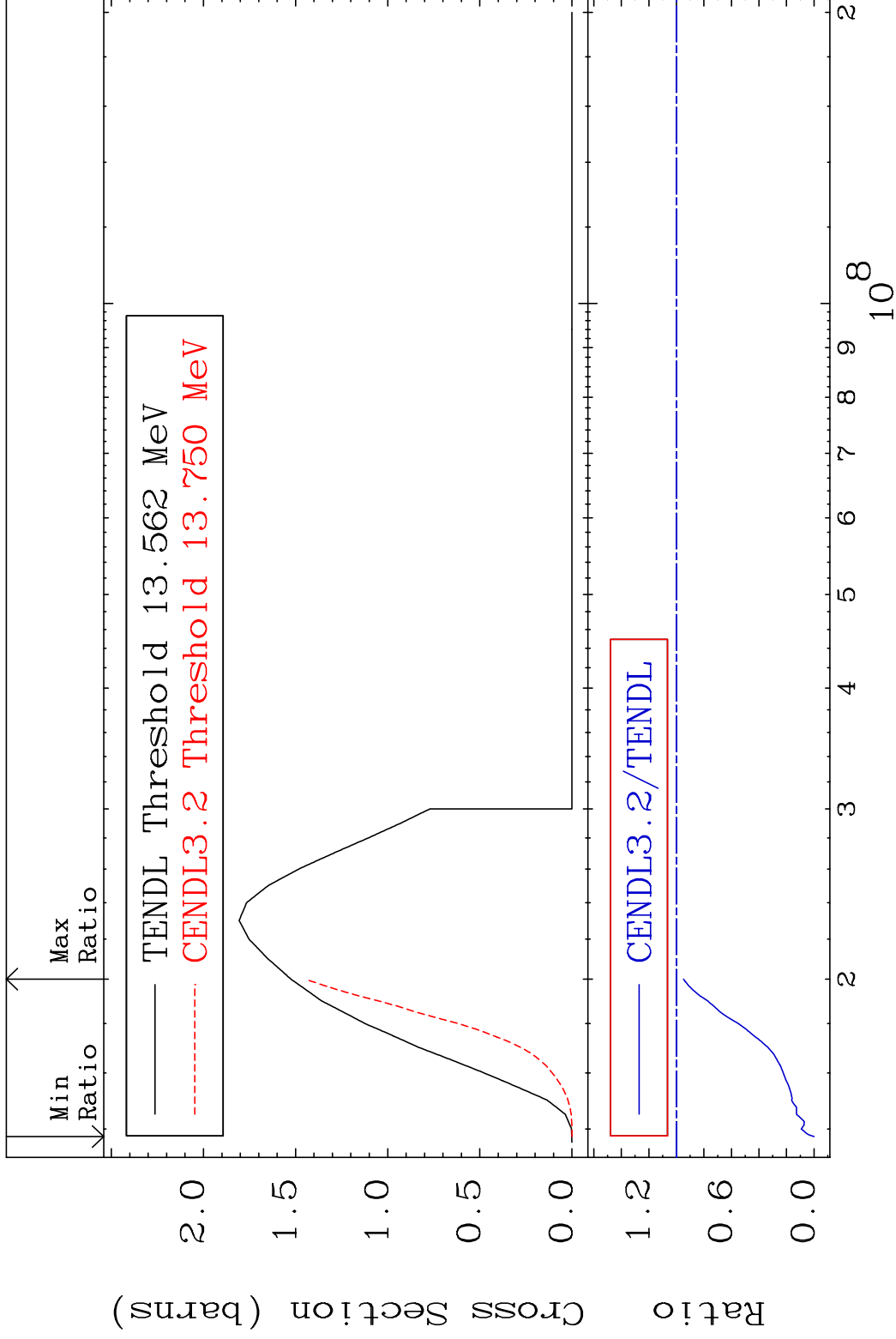
4 Incident Energy (eV) 72-Hf-180

MAT 7243

(n,3n)

72-Hf-180

Cross Section -100.0 To -5.130%

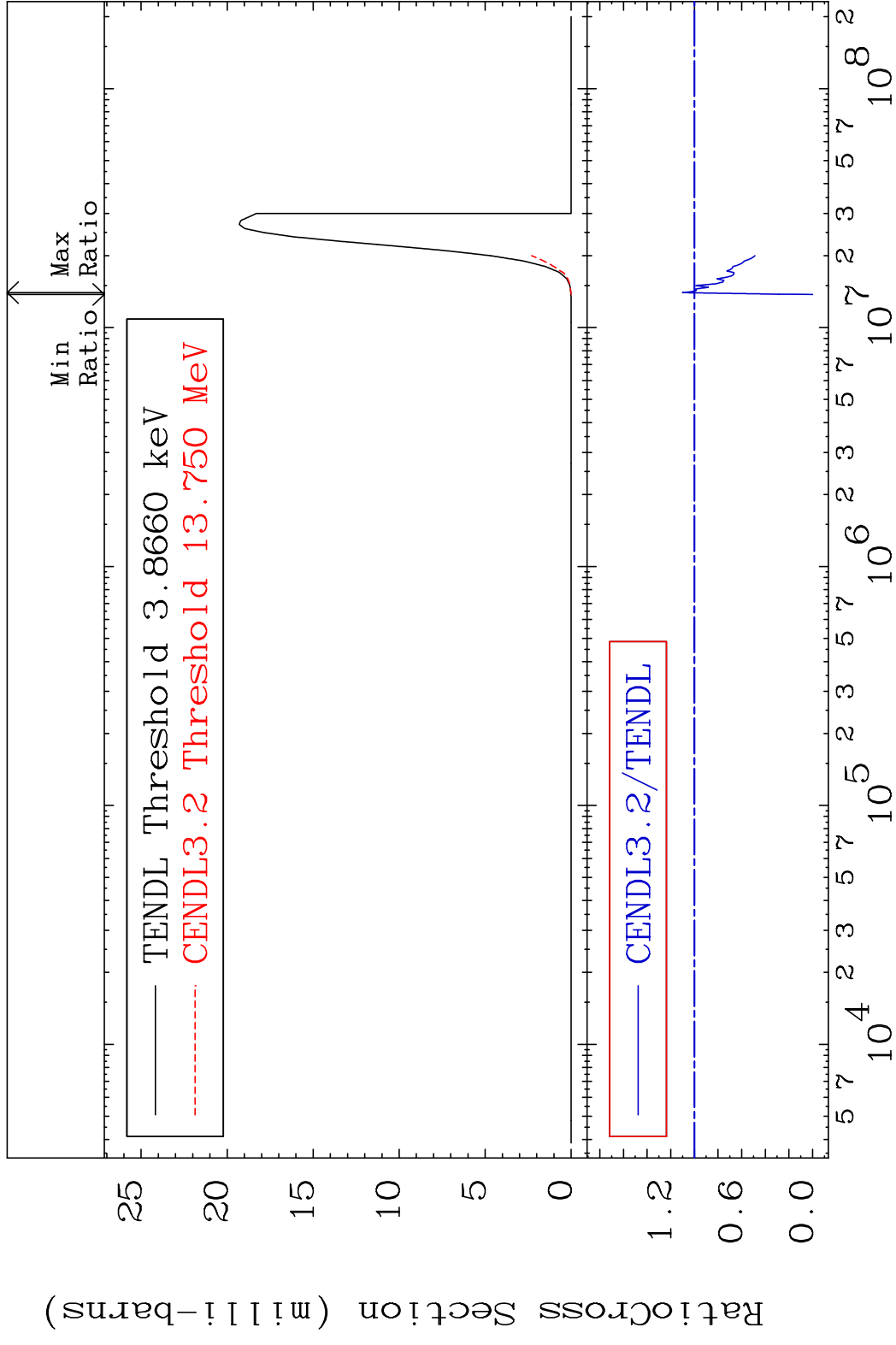


5

Incident Energy (eV)

72-Hf-180

MAT 7243 (n, n')  $\alpha$  72-Hf-180  
 Cross Section -100.0 To 10.18 %

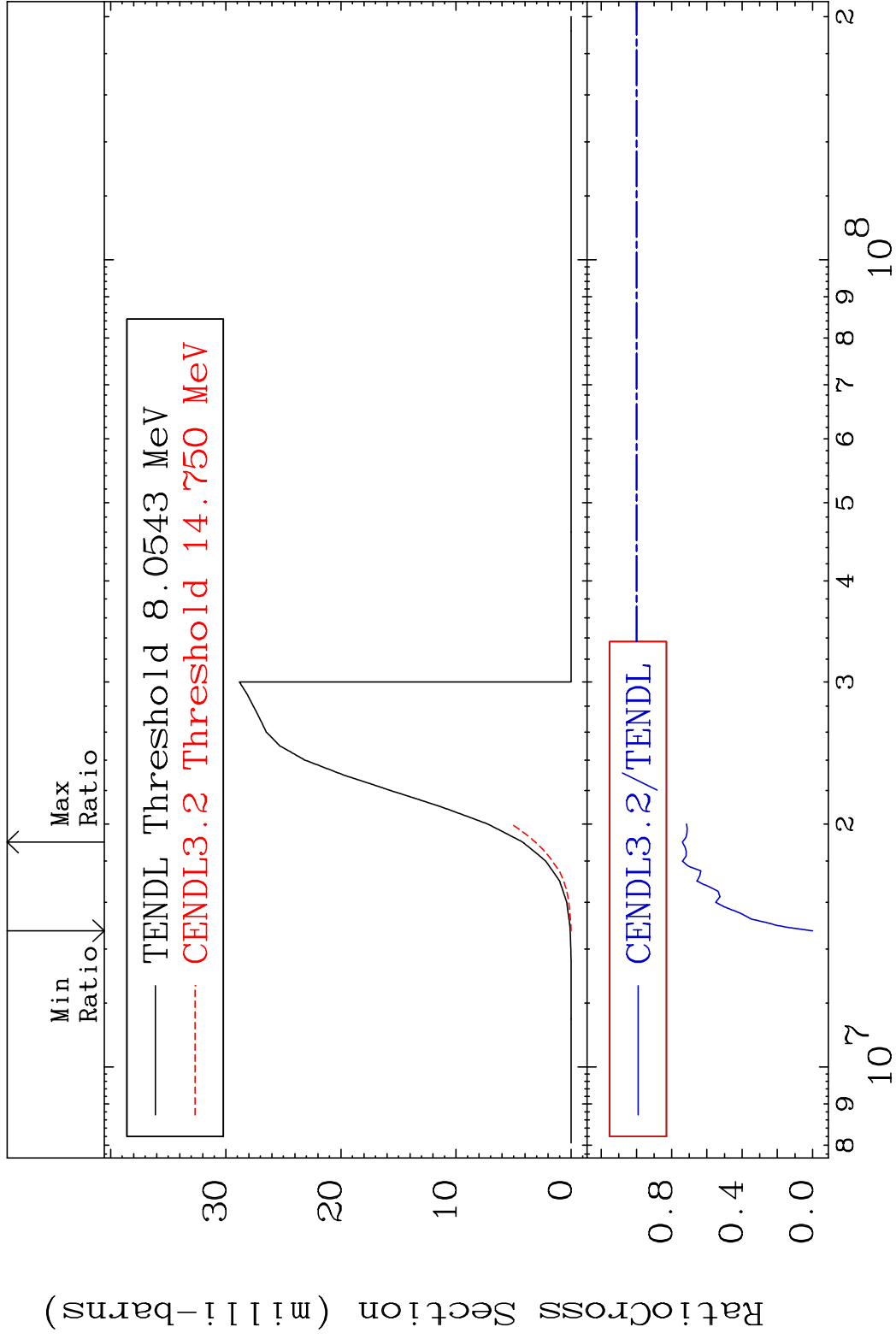


MAT 7243

(n, n') p

72-Hf-180

Cross Section -100.0 To -26.06%

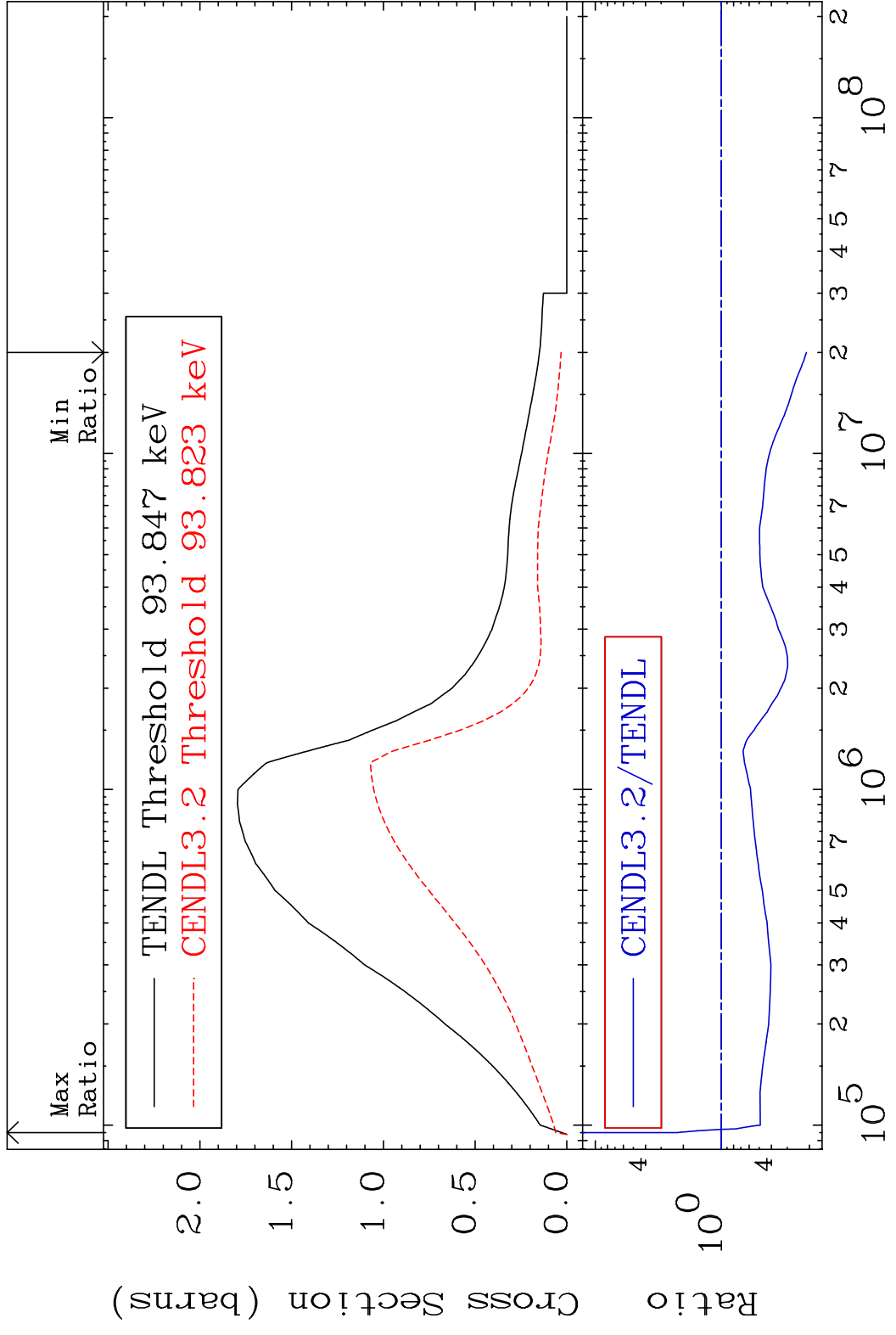


7

Incident Energy (eV)

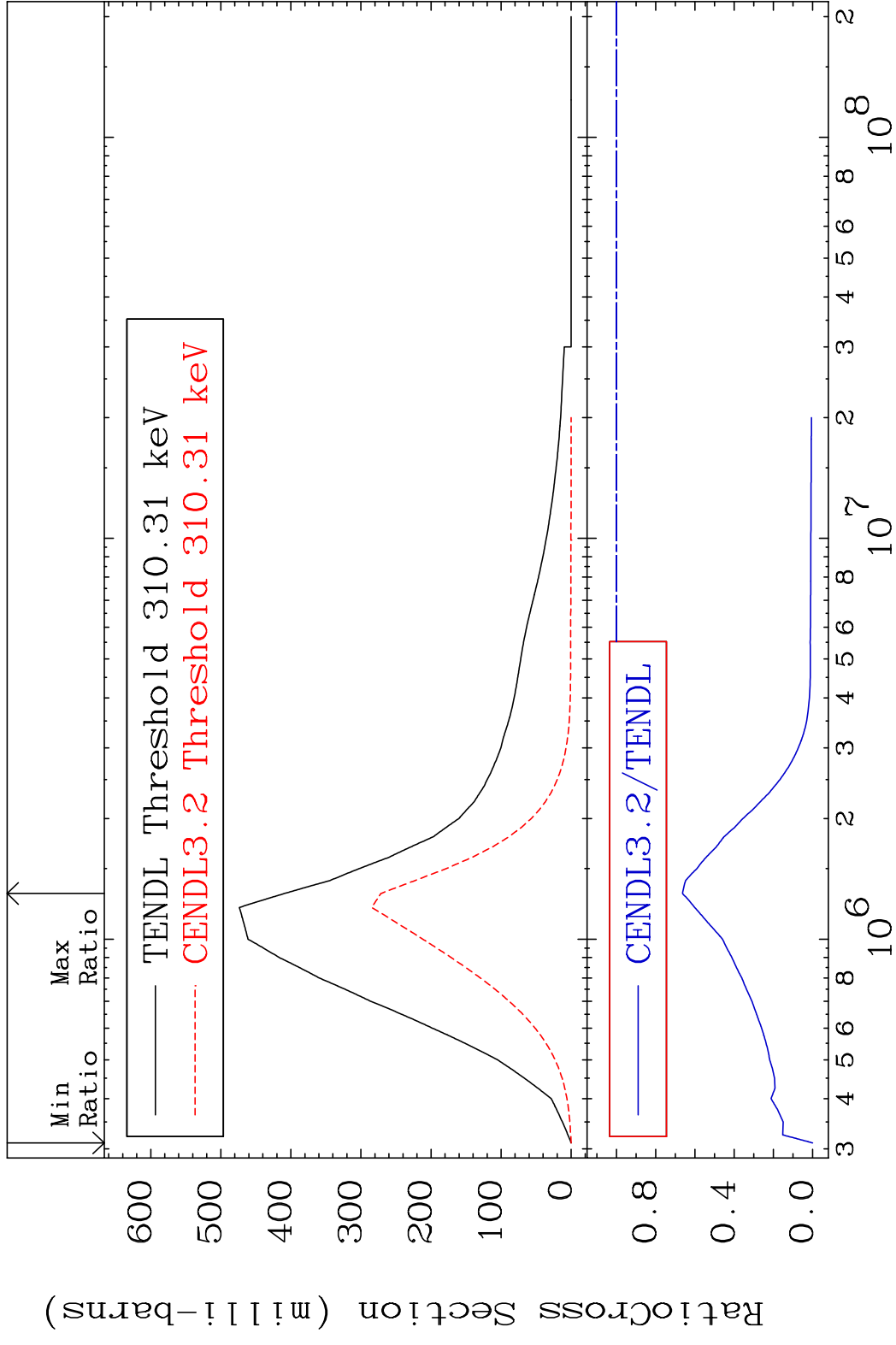
72-Hf-180

MAT 7243 MT= 51 (n,n') Level 72-Hf-180  
 Cross Section -78.89 To 124.1 %

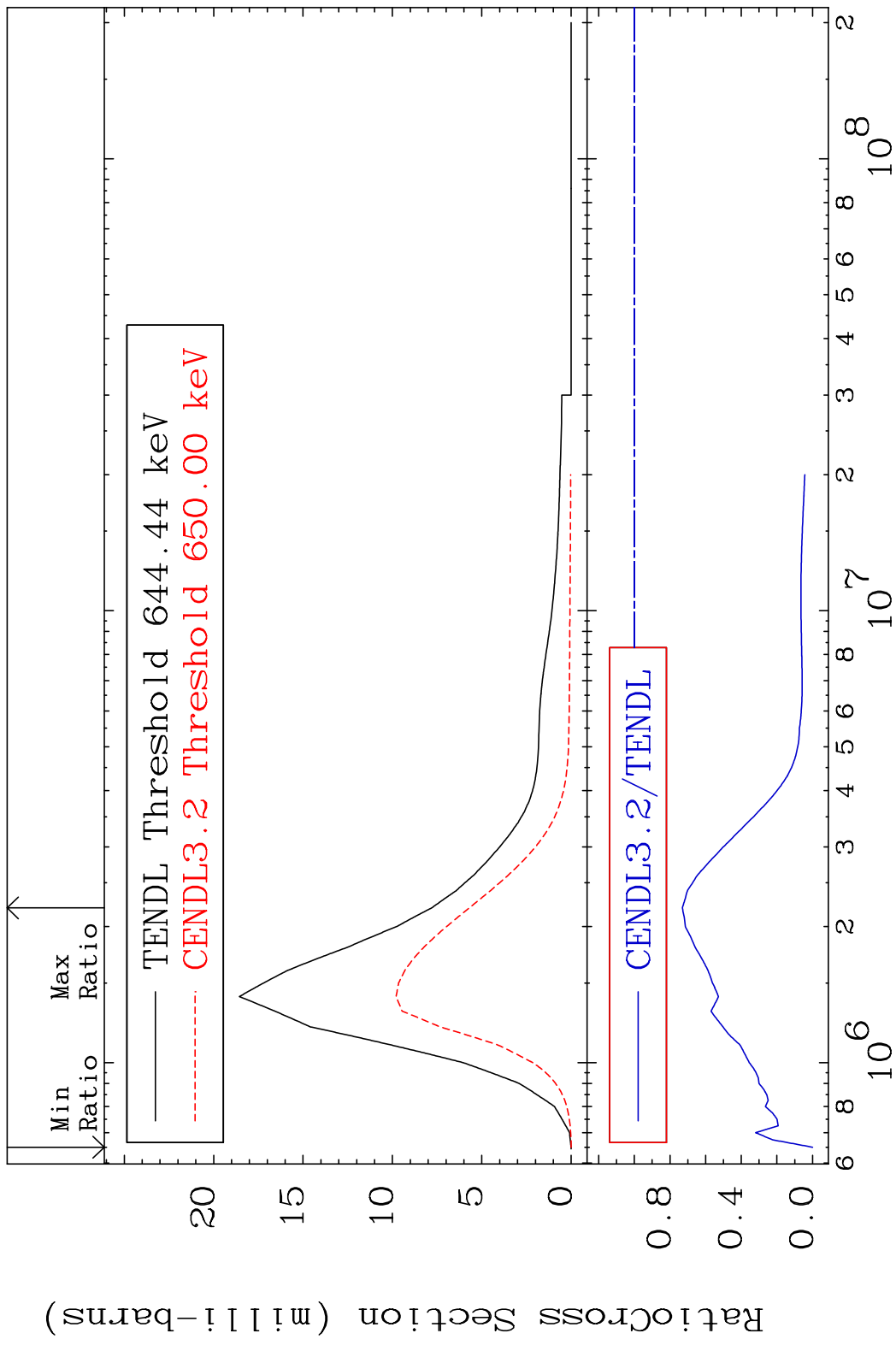


8 Incident Energy (eV) 72-Hf-180

MAT 7243 MT= 52 (n,n') Level 72-Hf-180  
 Cross Section -100.0 To -33.62%

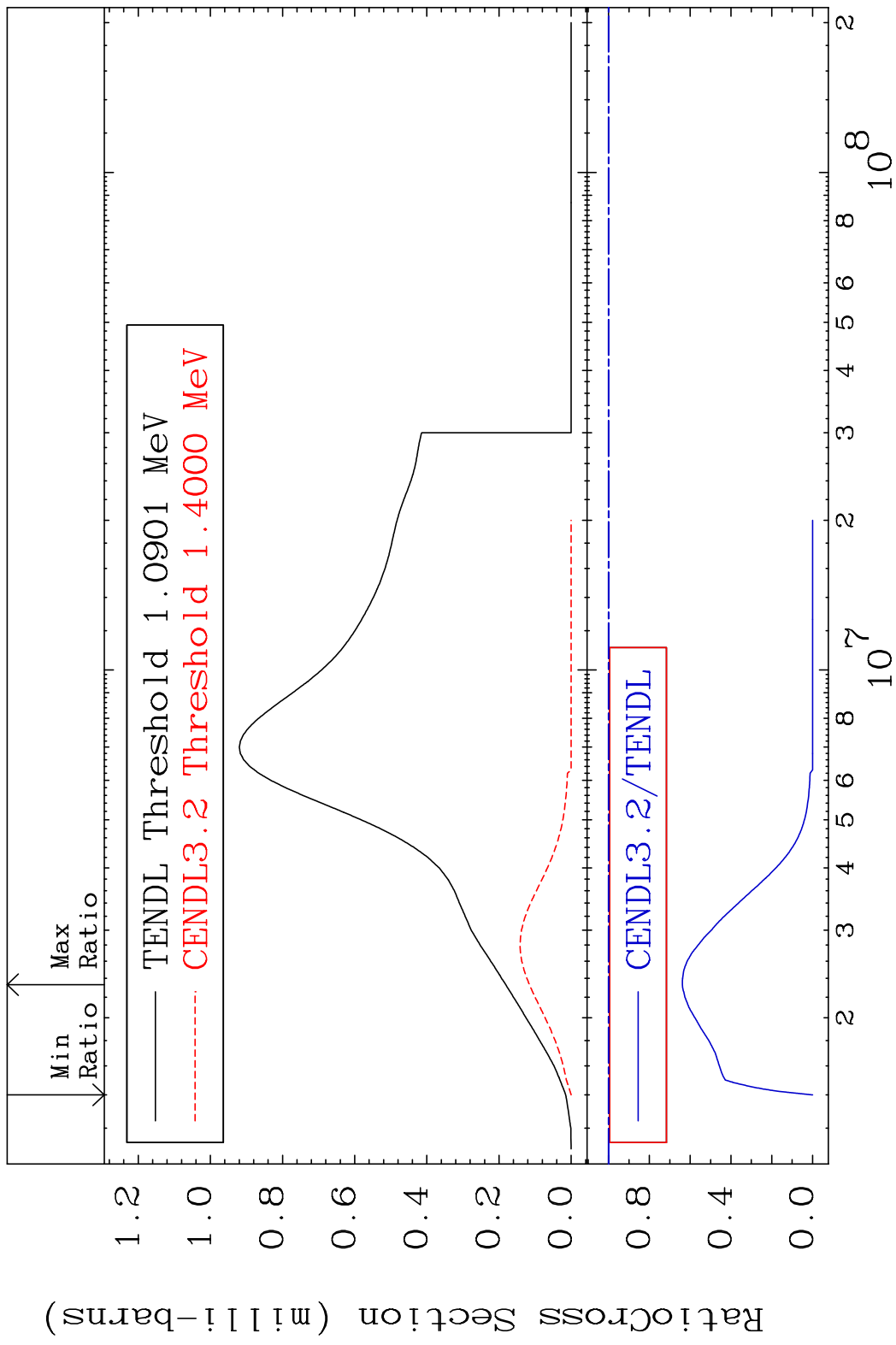


MAT 7243 MT= 53 (n, n') Level 72-Hf-180  
 Cross Section -100.0 To -26.95%



10      Incident Energy (eV)      72-Hf-180

MAT 7243 MT= 54 (n, n') Level 72-Hf-180  
 Cross Section -100.0 To -36.17%

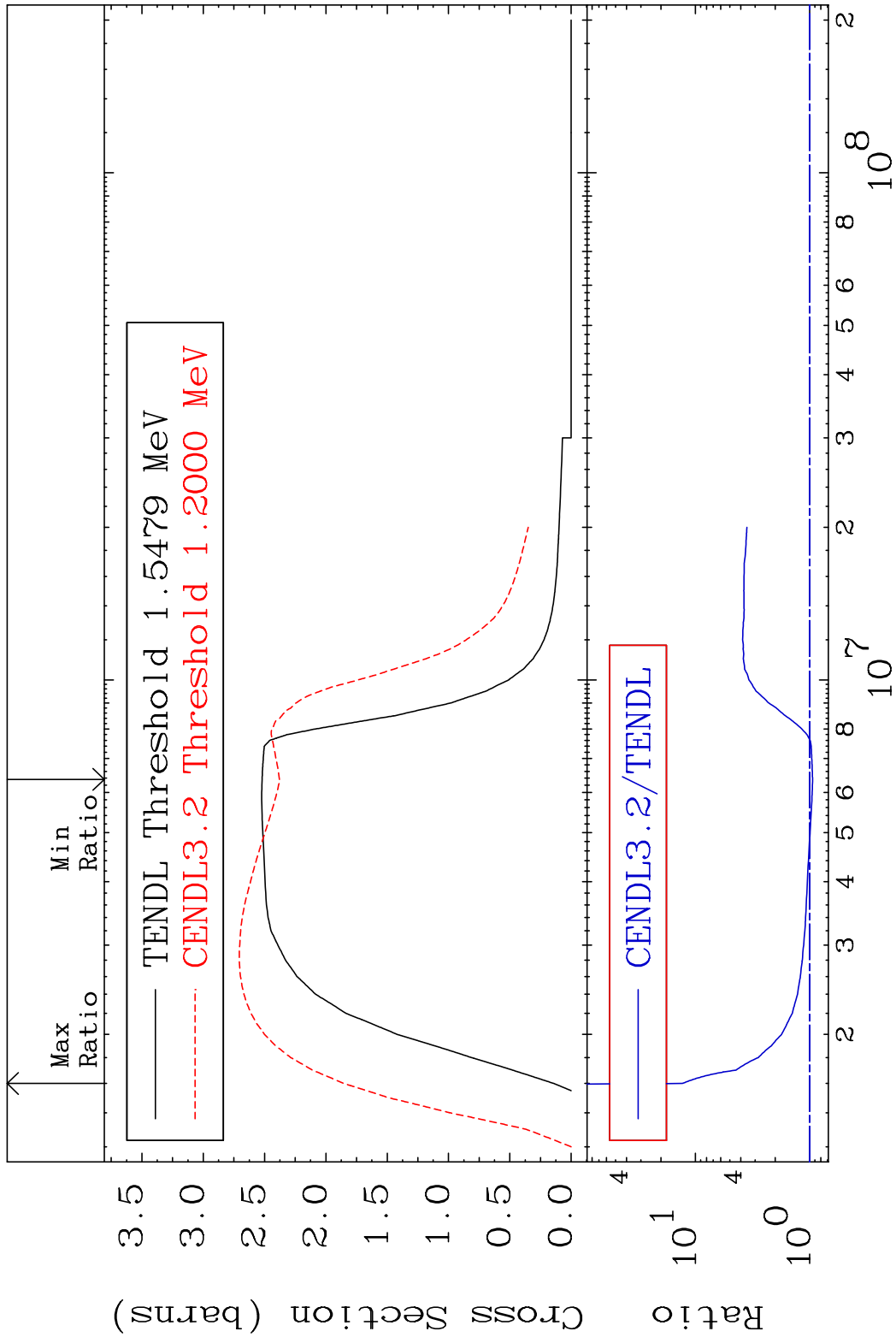


MAT 7243

(n, n') Continuum

72-Hf-180

Cross Section -5.618 To 1201. %

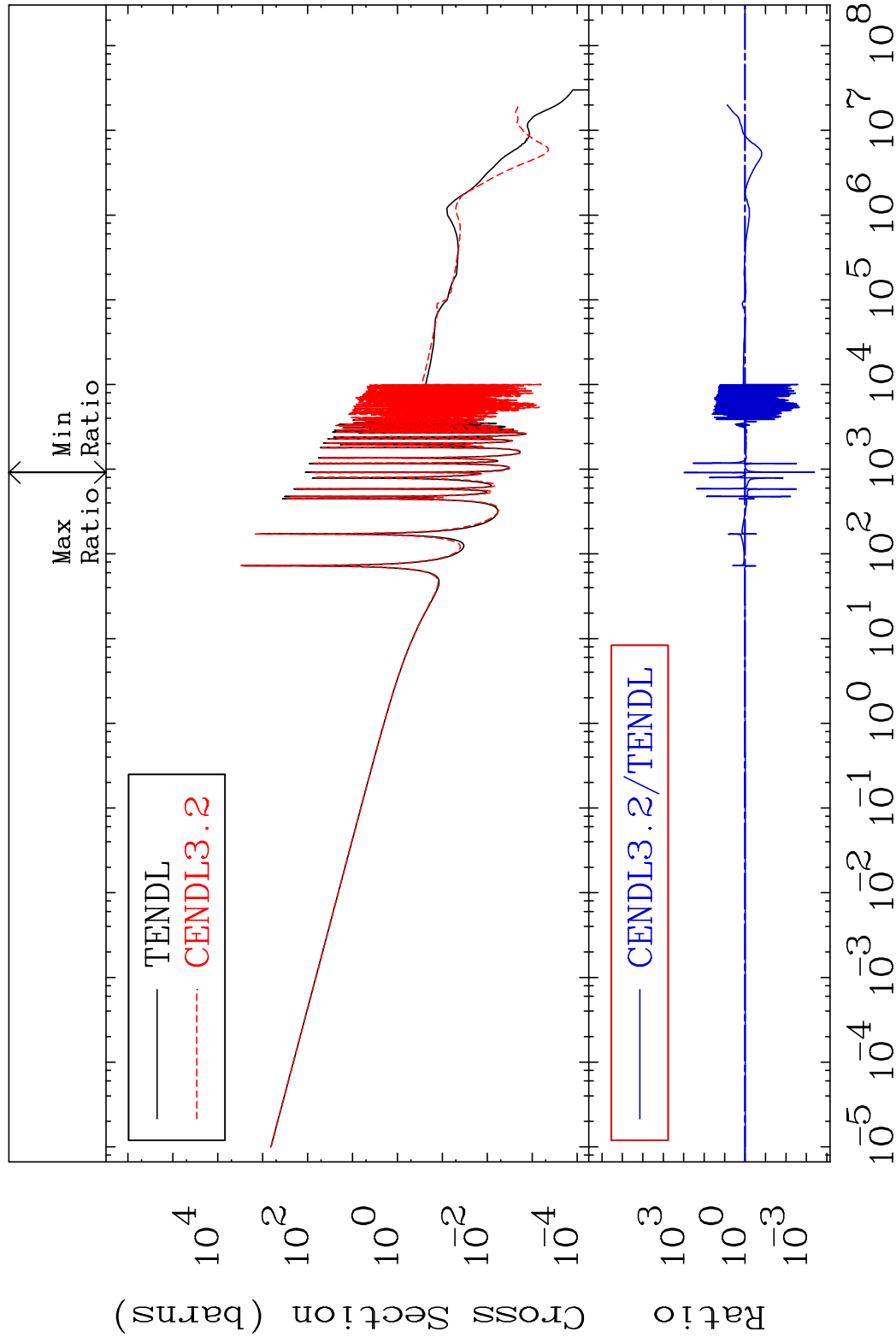


MAT 7243

(n,  $\gamma$ )

72-Hf-180

Cross Section -99.96 To 9999. %



13

Incident Energy (eV)

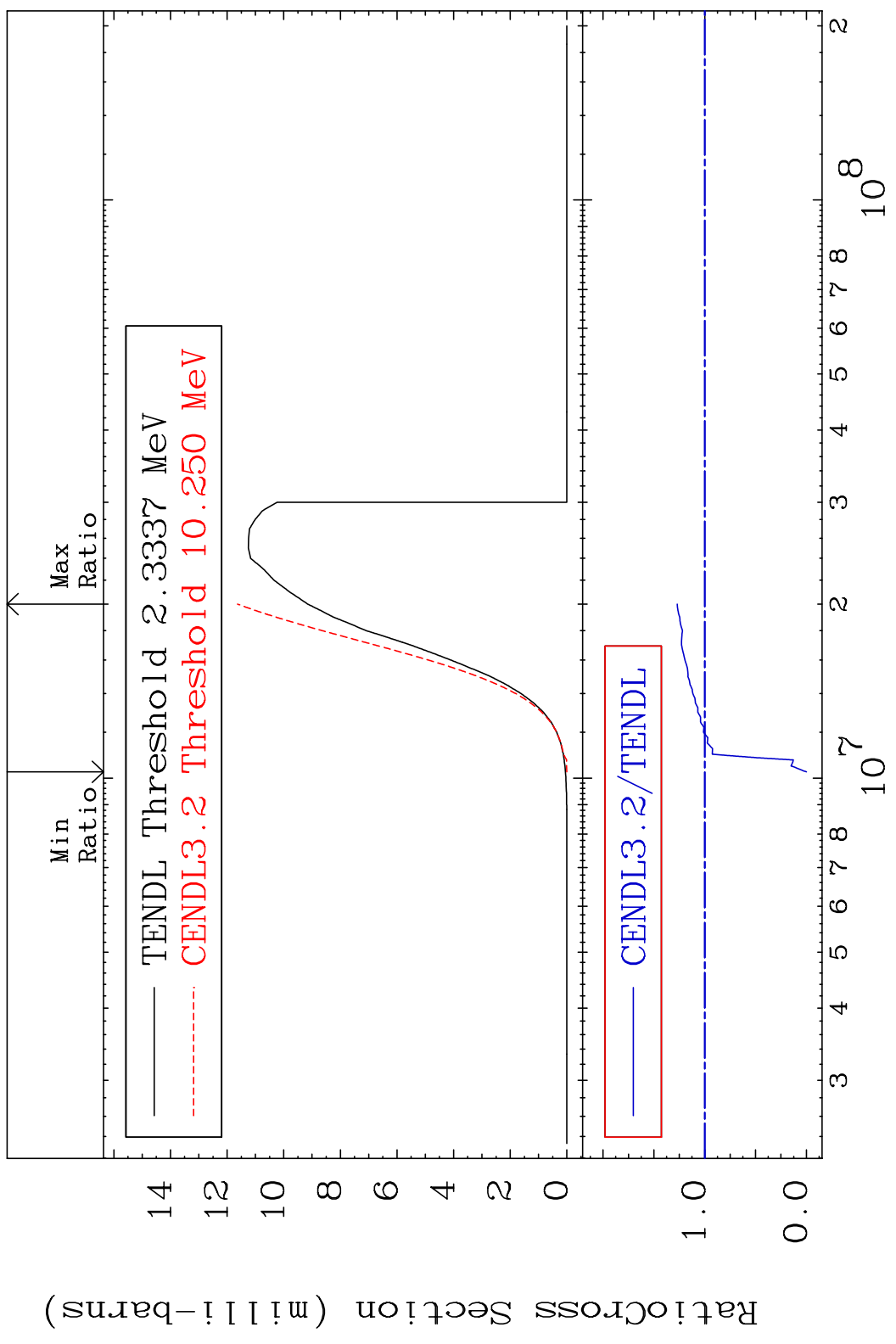
72-Hf-180

MAT 7243

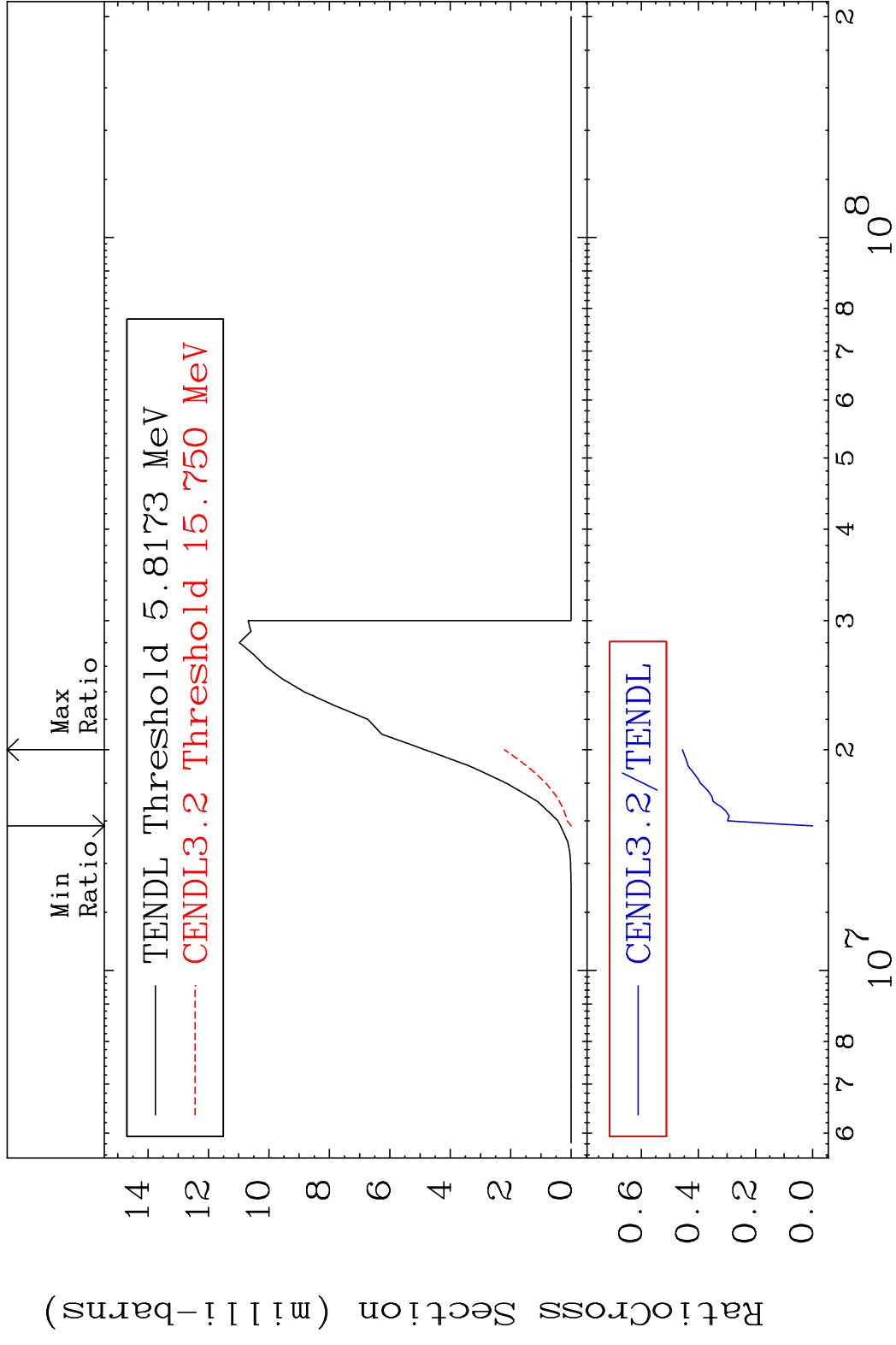
(n, p)

72-Hf-180

Cross Section -100.0 To 27.08 %



MAT 7243 (n,d) 72-Hf-180  
 Cross Section -100.0 To -54.36%

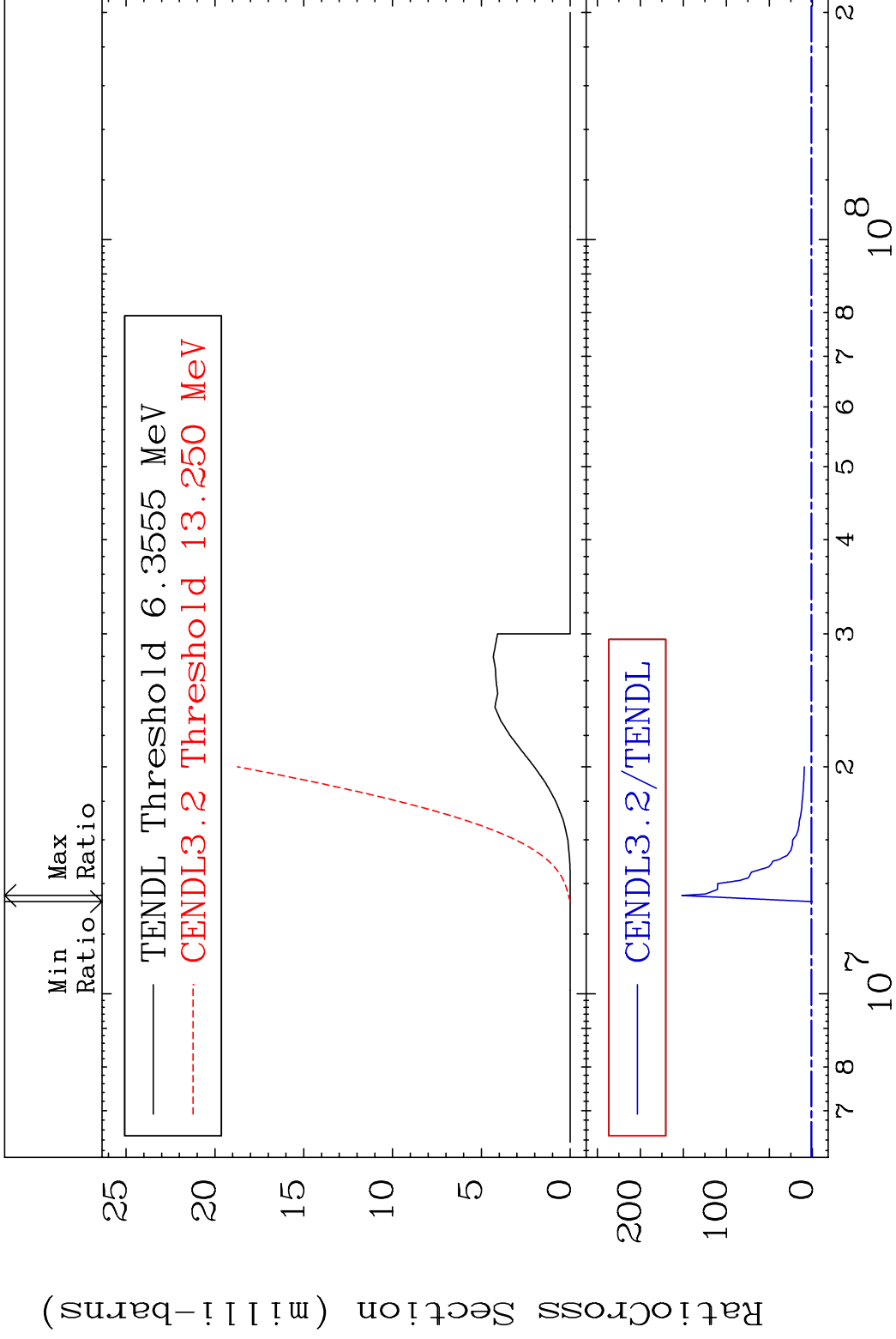


MAT 7243

(n, t)

72-Hf-180

Cross Section -100.0 To 9999. %



16

Incident Energy (eV)

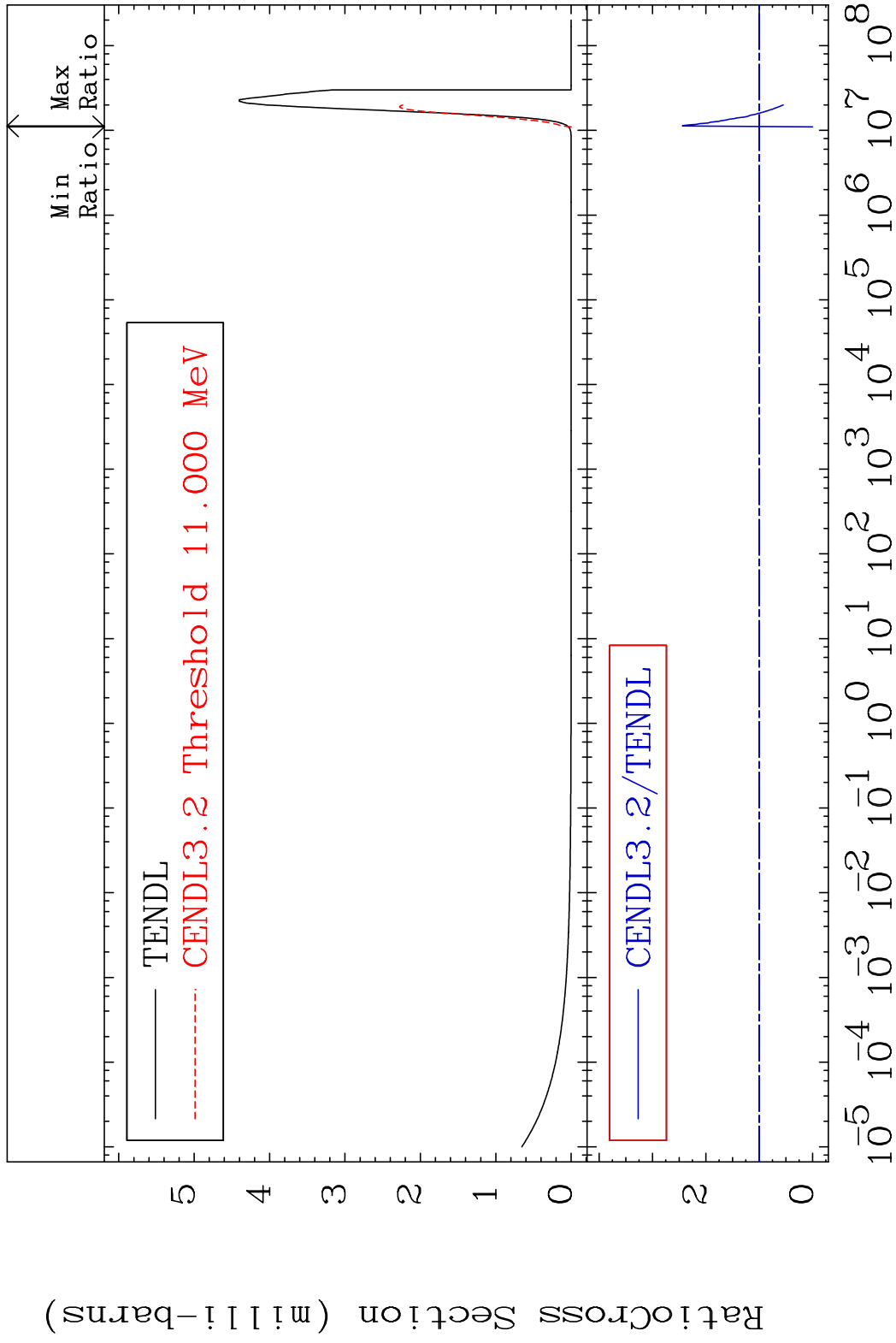
72-Hf-180

MAT 7243

(n,  $\alpha$ )

72-Hf-180

Cross Section -100.0 To 144.0 %

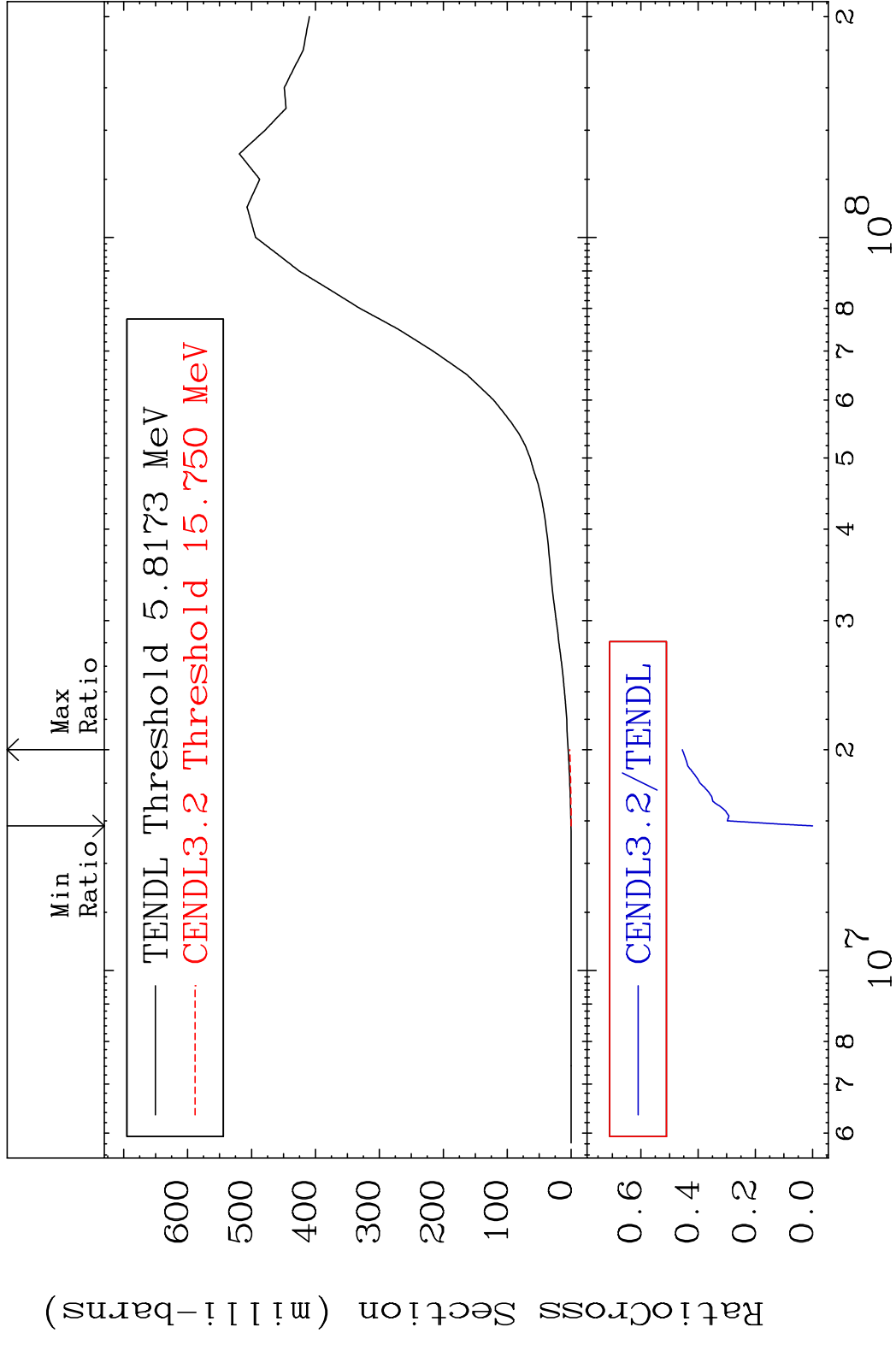


17

Incident Energy (eV)

72-Hf-180

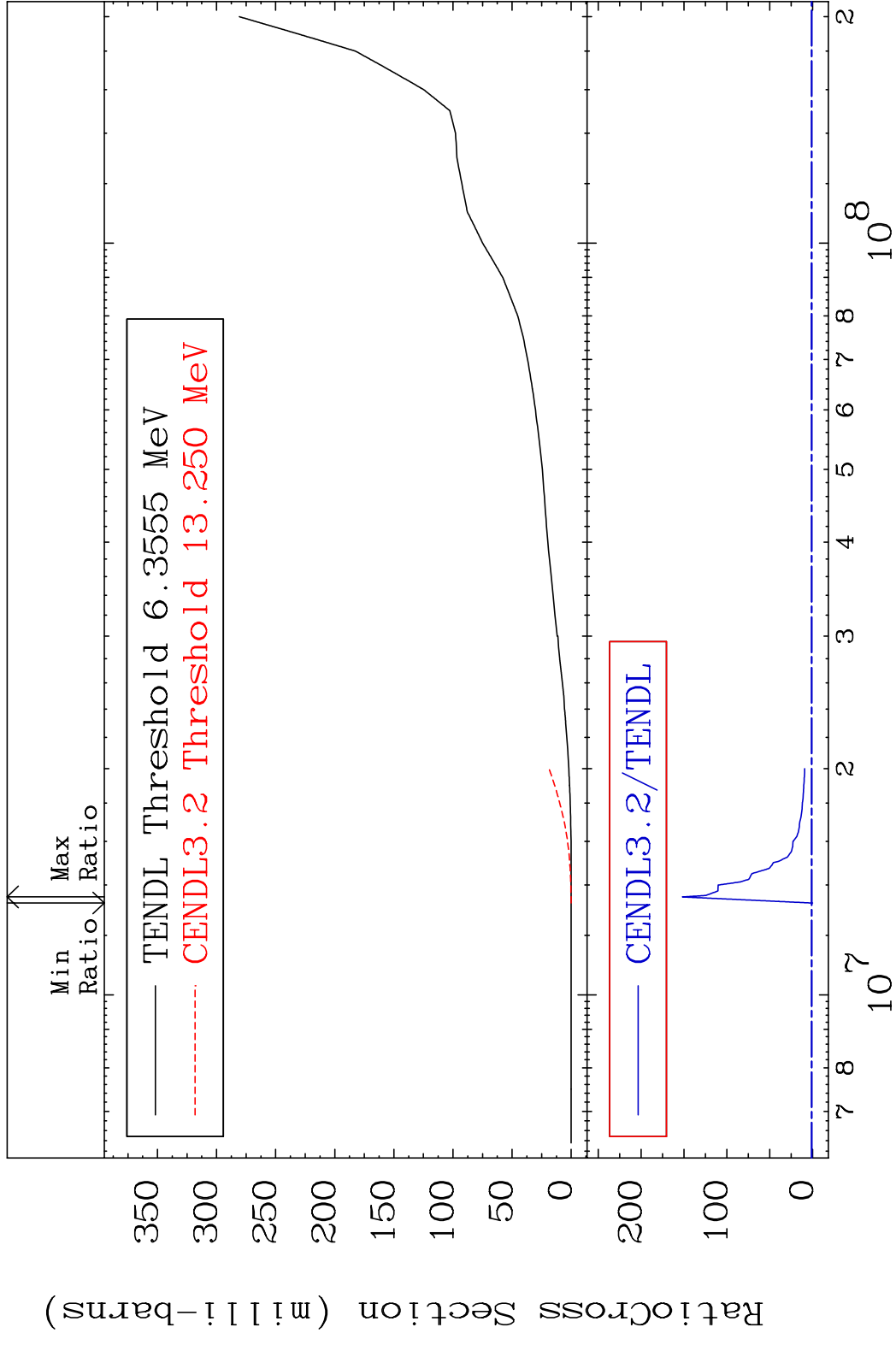




MAT 7243

Tritium Production 72-Hf-180

Cross Section -100.0 To 9999. %



20

Incident Energy (eV)

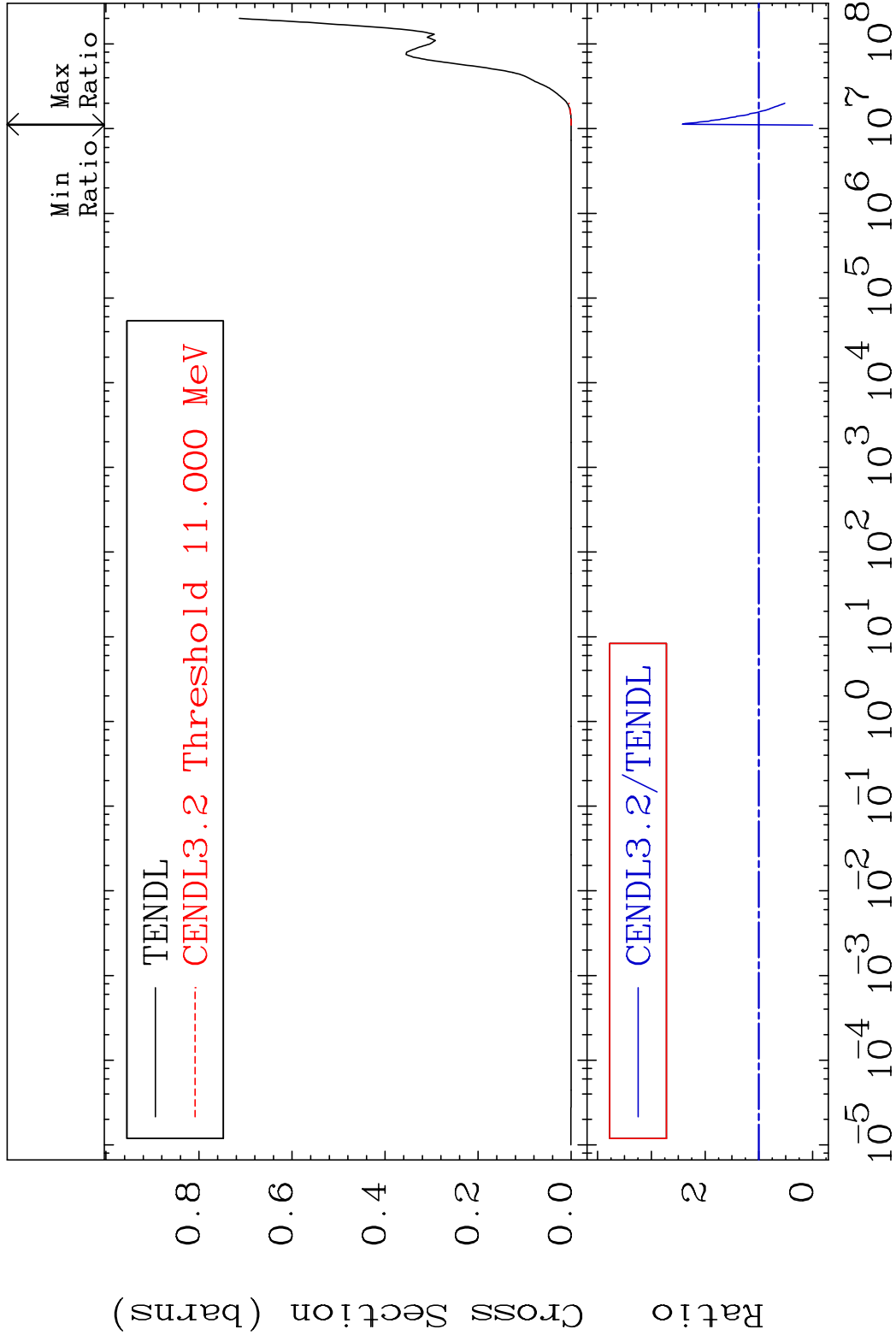
72-Hf-180

MAT 7243

He-4 Production

72-Hf-180

Cross Section -100.0 To 142.4 %

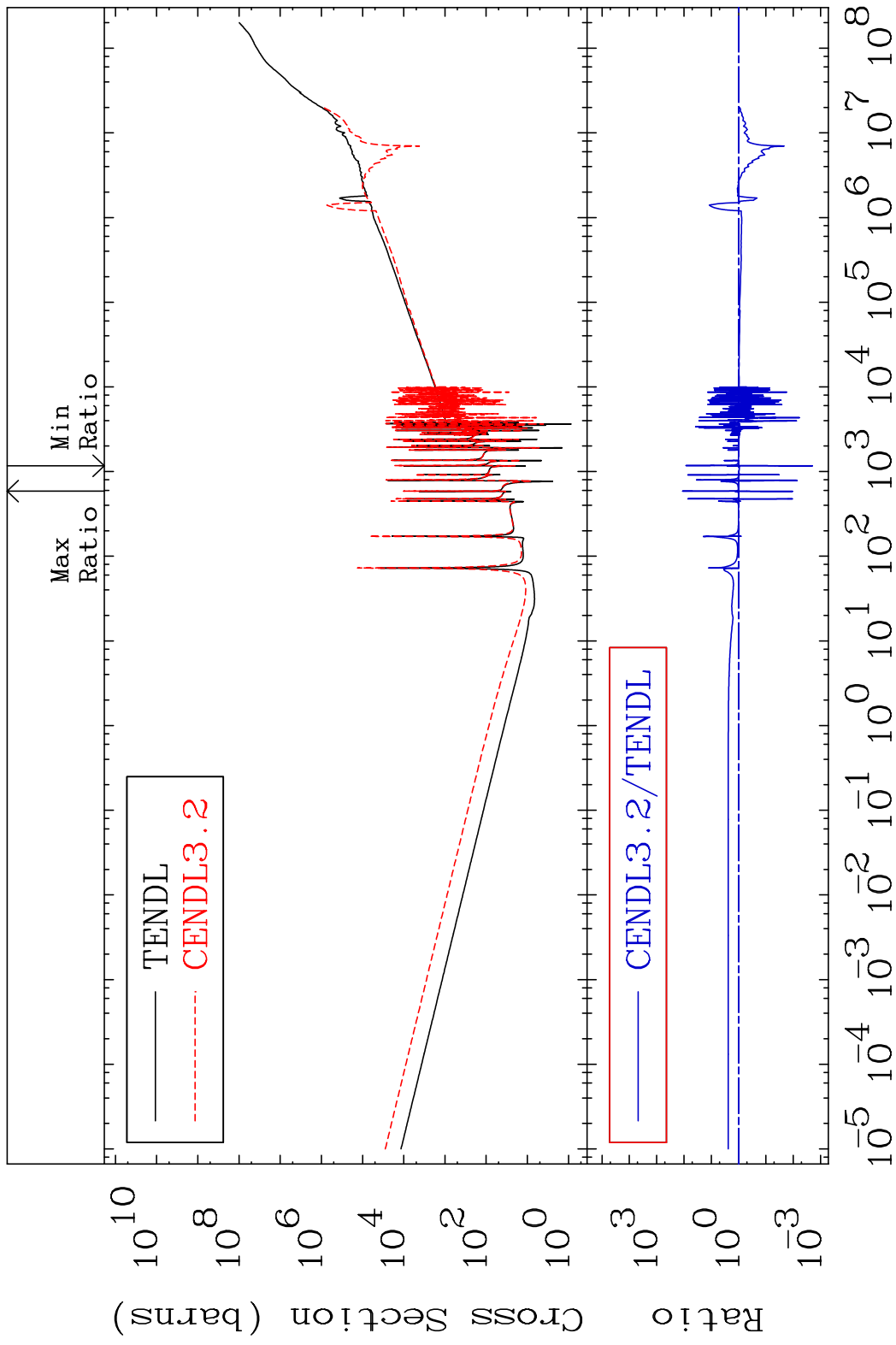


21

Incident Energy (eV)

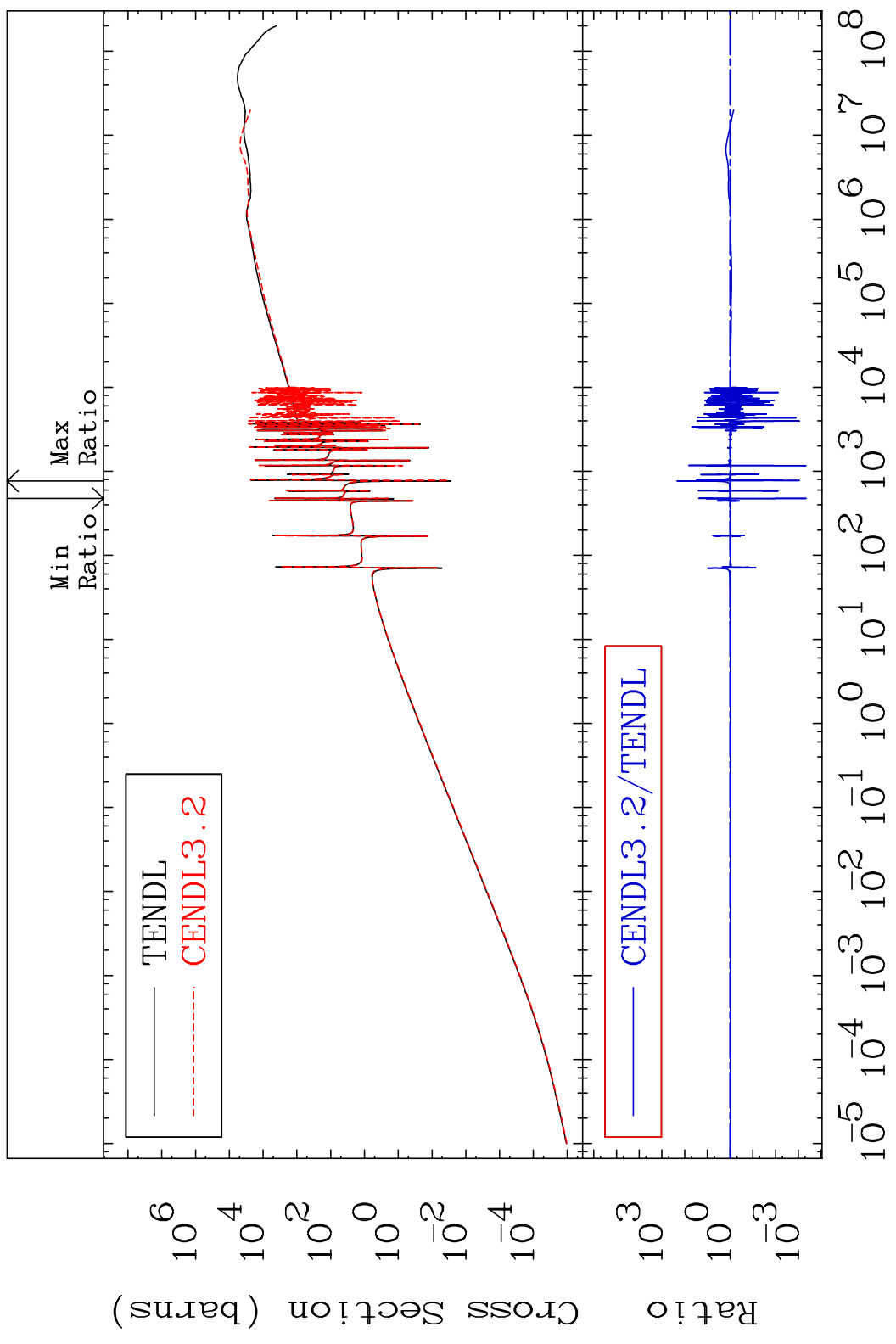
72-Hf-180

MAT 7243 Kerma total (eV-barns) 72-Hf-180  
 Cross Section -99.80 To 9999. %

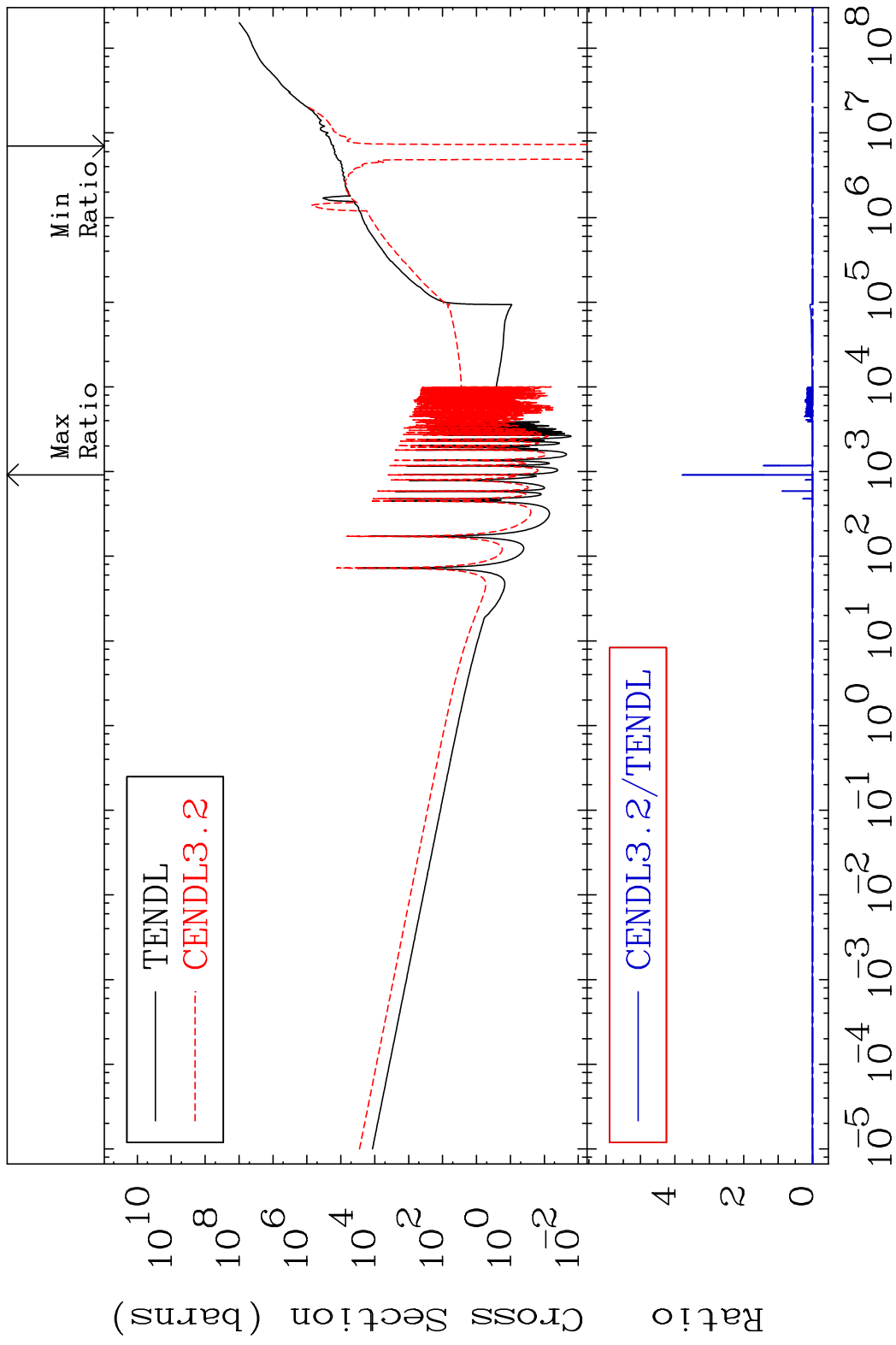


MAT 7243

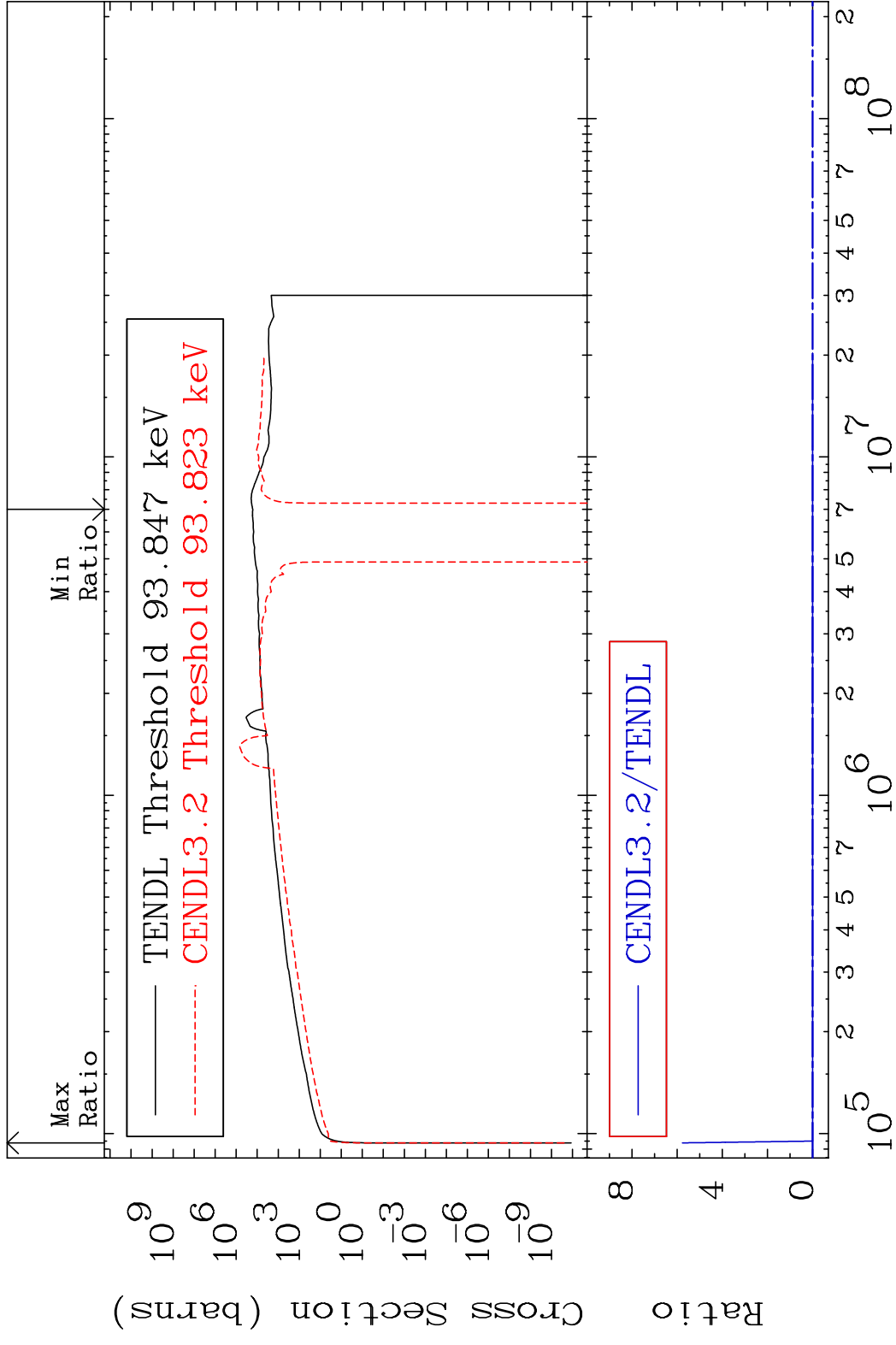
Kerma elastic Cross Section -99.96 To 9999. %  
72-Hf-180



MAT 7243 Kerma non-elastic (all but mt2) 72-Hf-180  
 Cross Section -126.4 To 9999. %

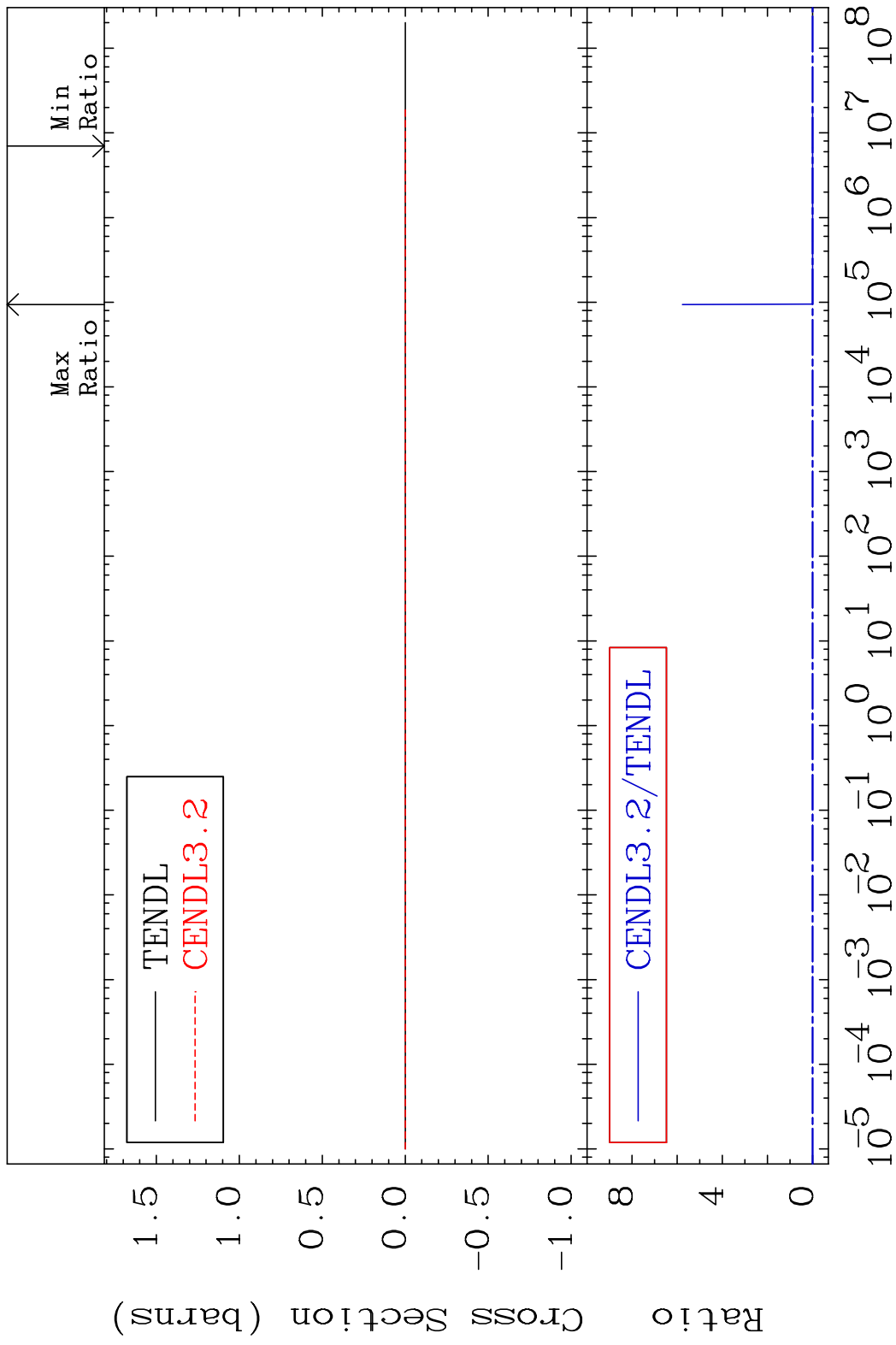


MAT 7243 Kerma inelastic (mt51-91) 72-Hf-180  
 Cross Section -126.4 To 9999. %

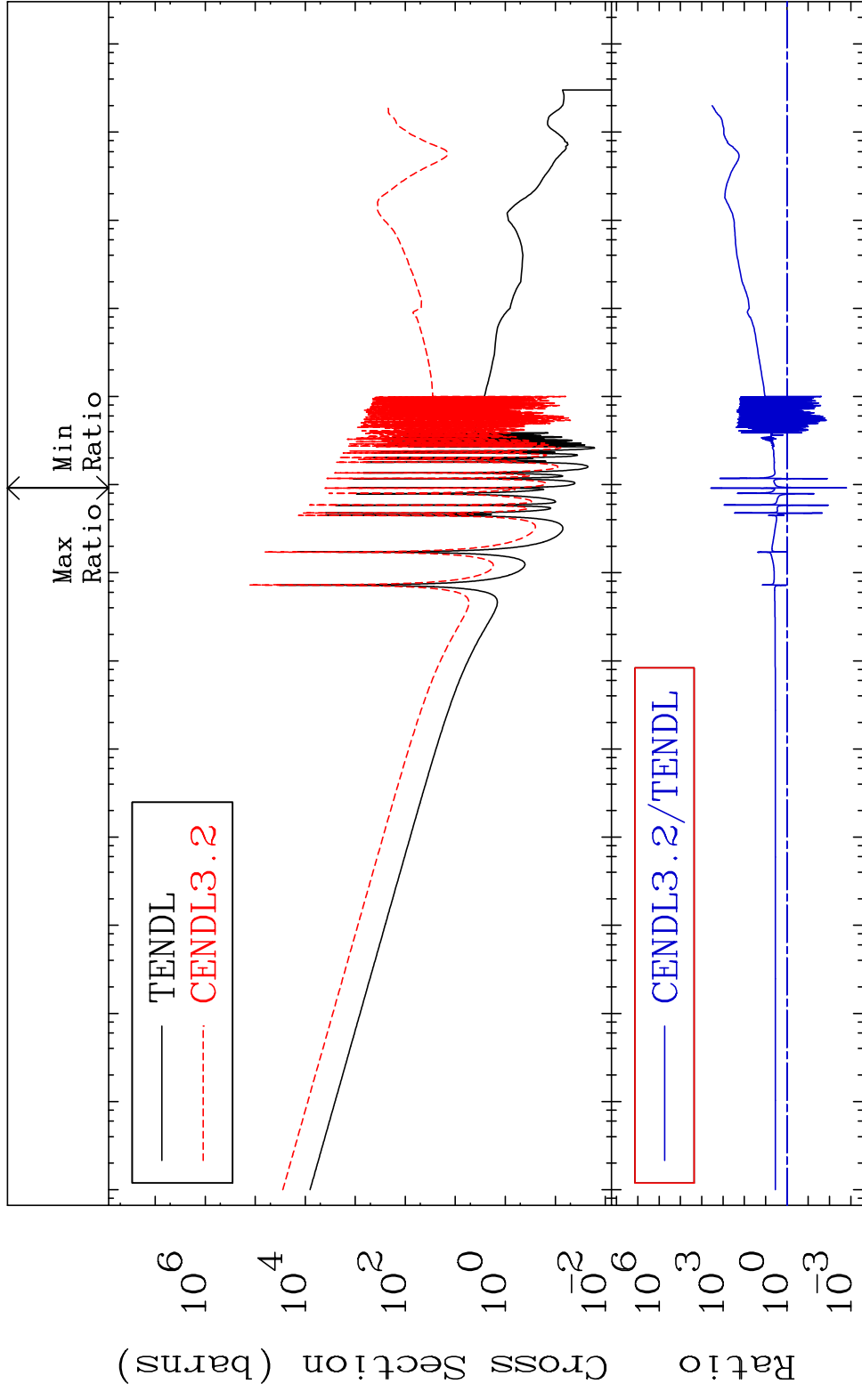


25 Incident Energy (eV) 72-Hf-180

MAT 7243 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-180  
 Cross Section -126.4 To 9999. %

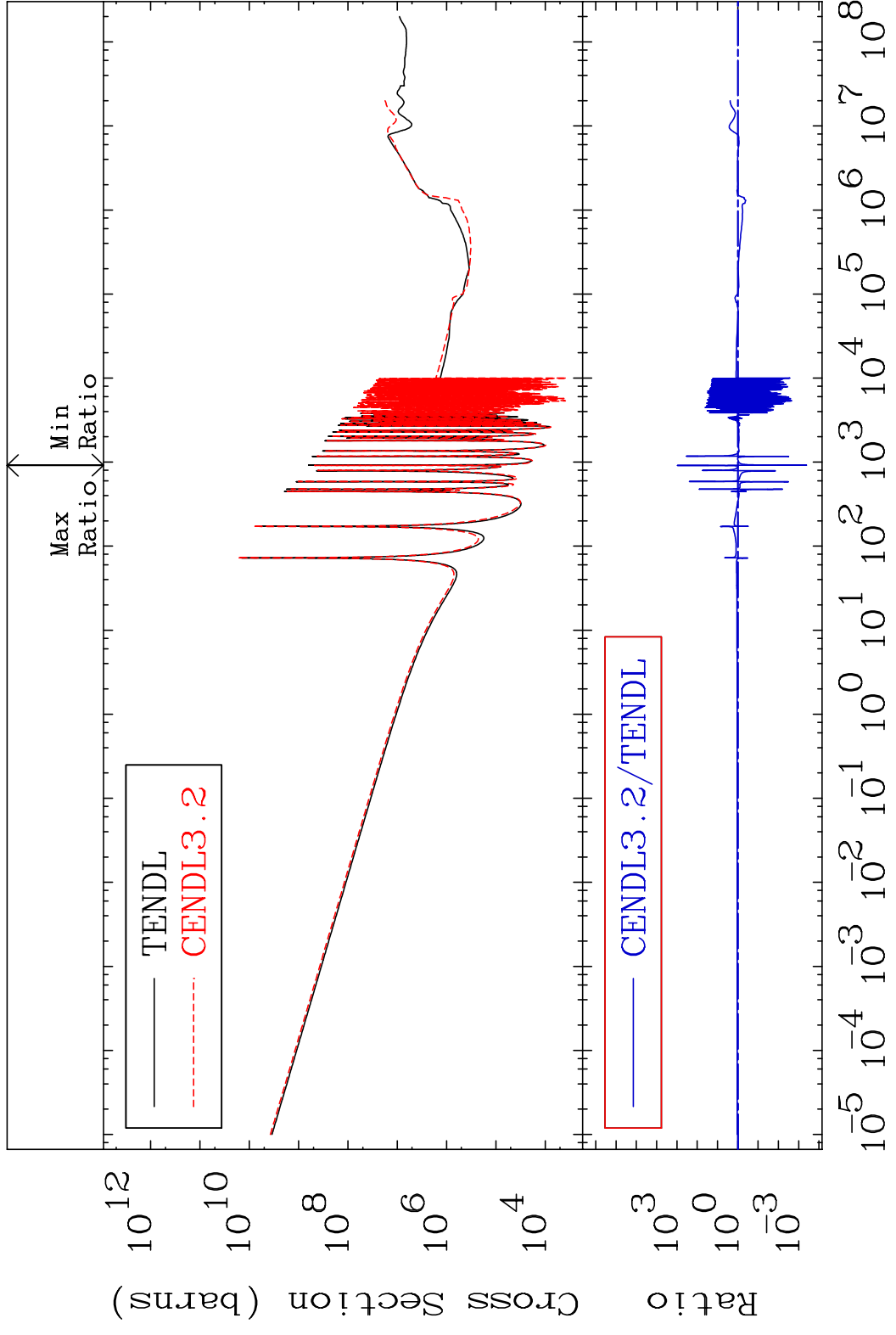


MAT 7243 Kerma capture (mt102) 72-Hf-180  
 Cross Section -99.84 To 9999. %

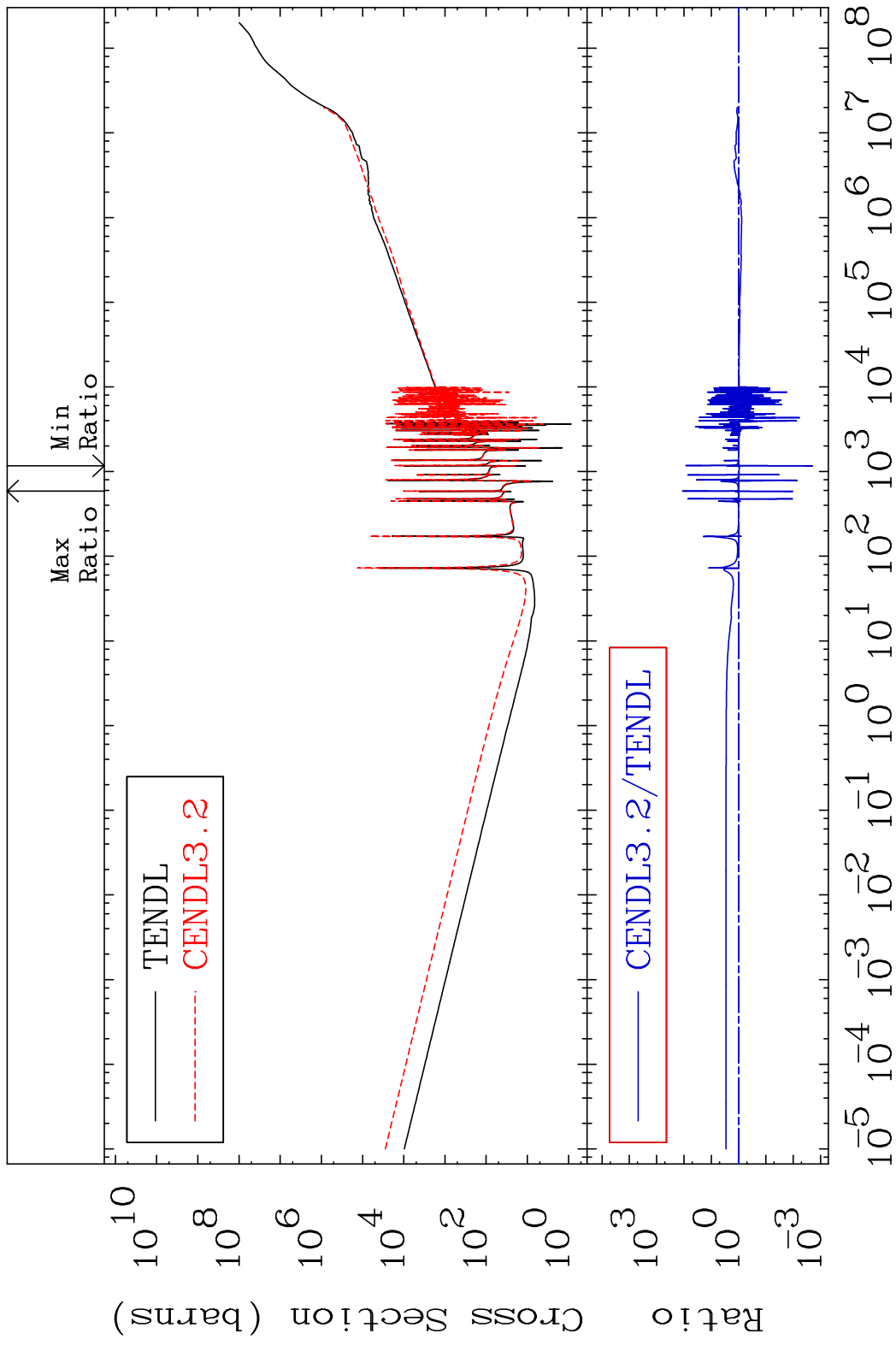


MAT 7243

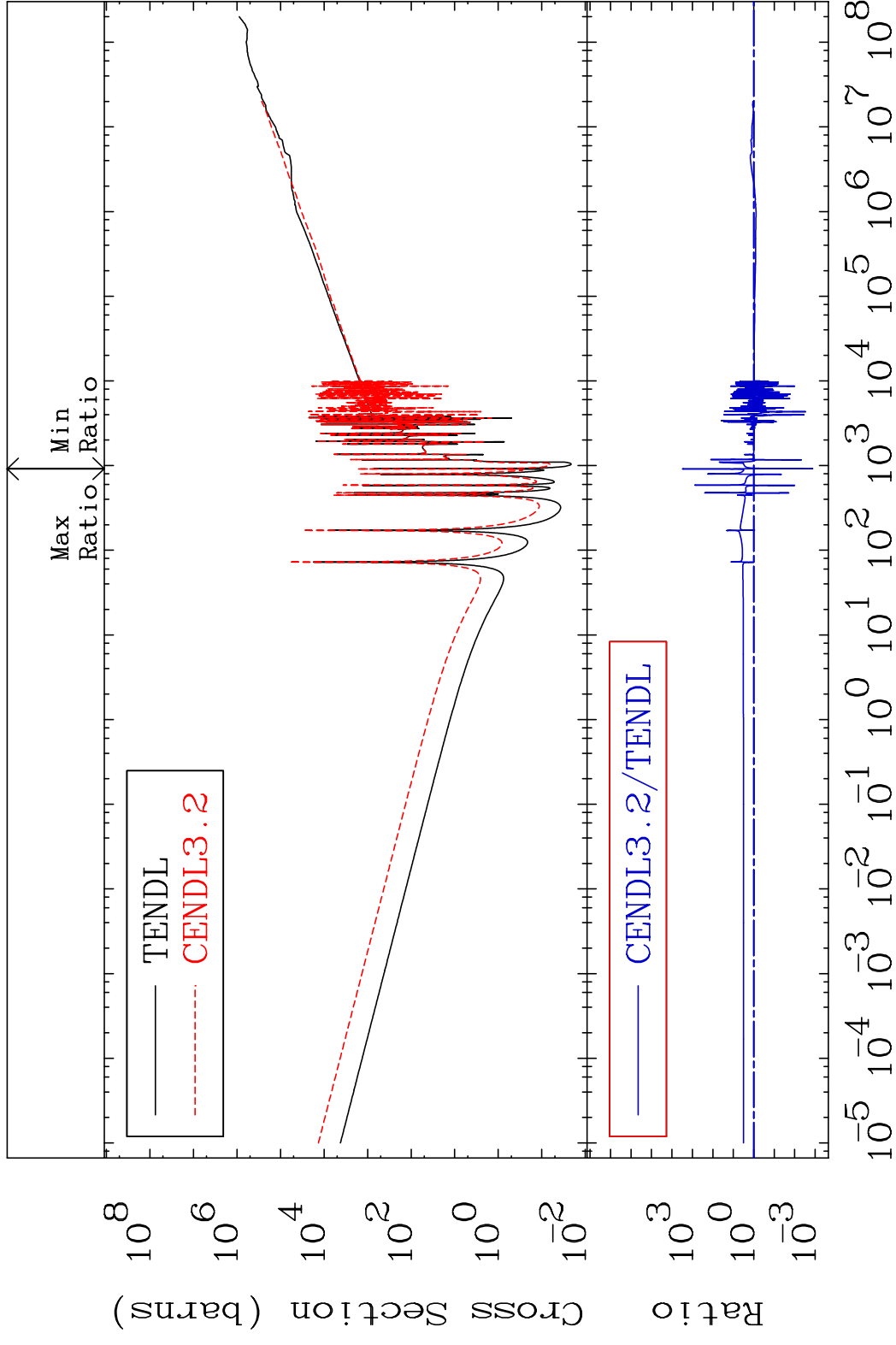
Total photon (eV-barns) 72-Hf-180  
Cross Section -99.96 To 9999. %



MAT 7243 Total kinematic kerma (high limit) 72-Hf-180  
 Cross Section -99.80 To 9999. %



MAT 7243      Dpa total (eV-barns)      72-Hf-180  
 Cross Section      -99.87 To 9999. %

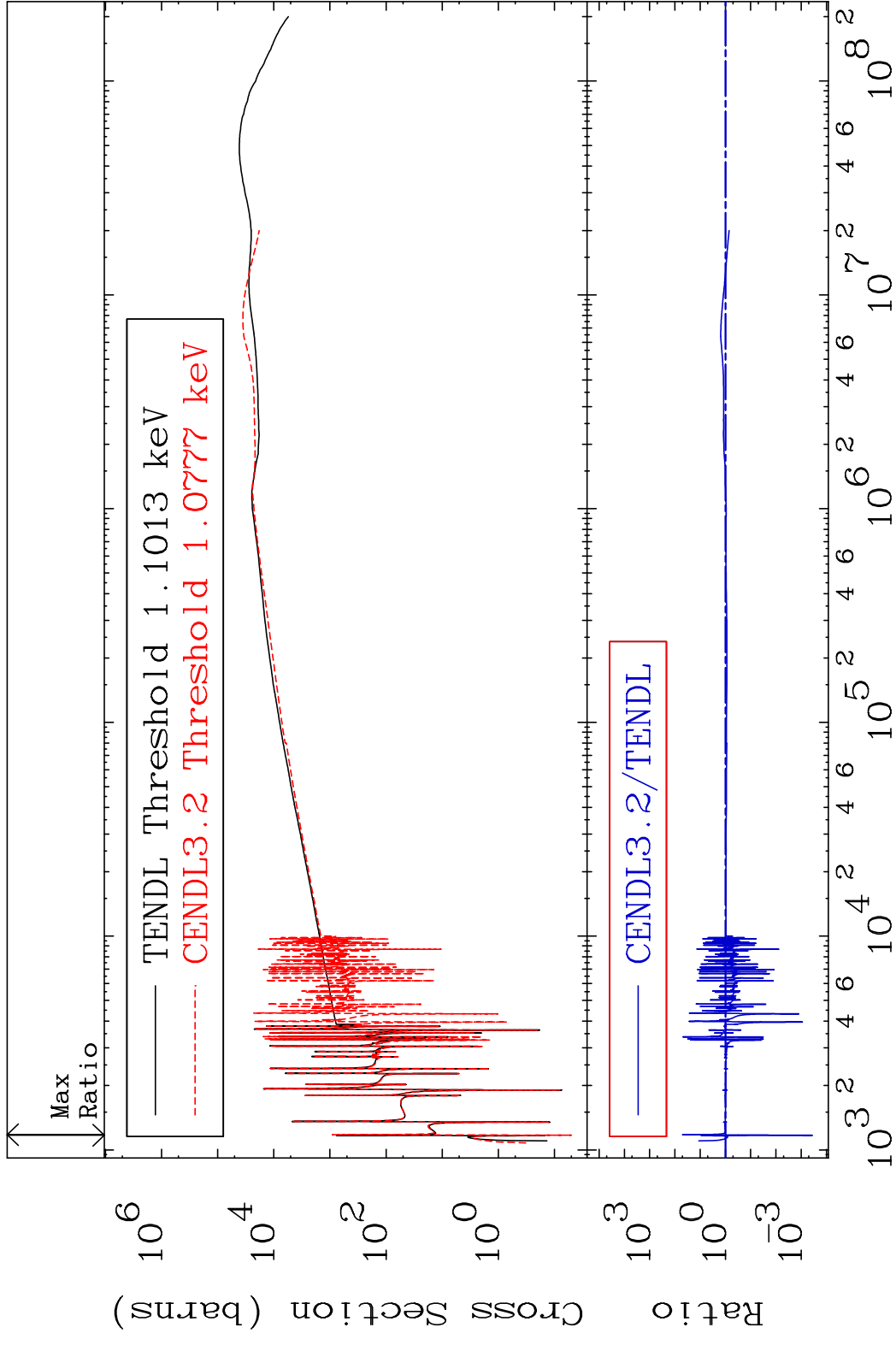


MAT 7243

Dpa elastic (mt2)

72-Hf-180

Cross Section -99.96 To 4968. %

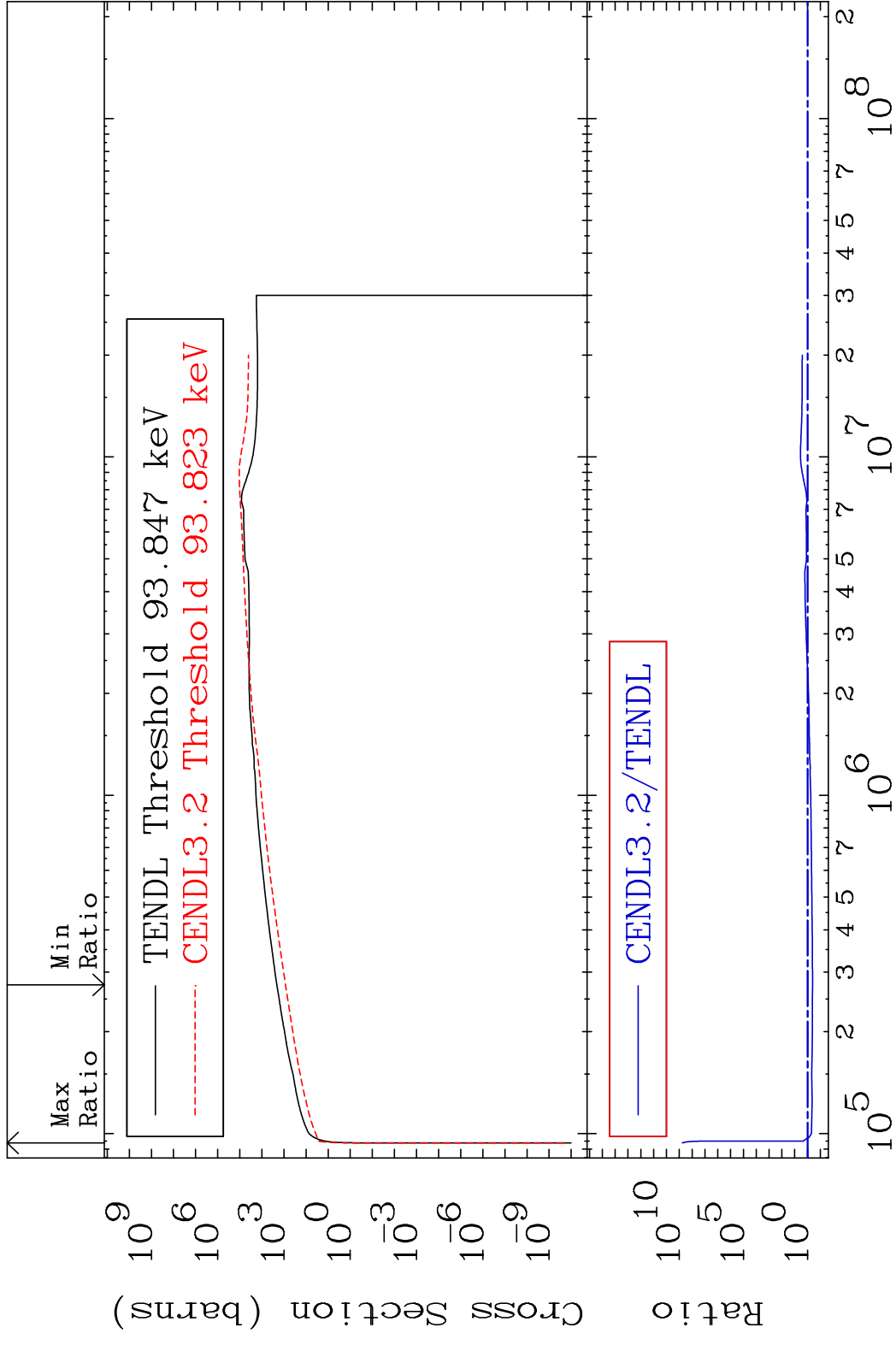


31

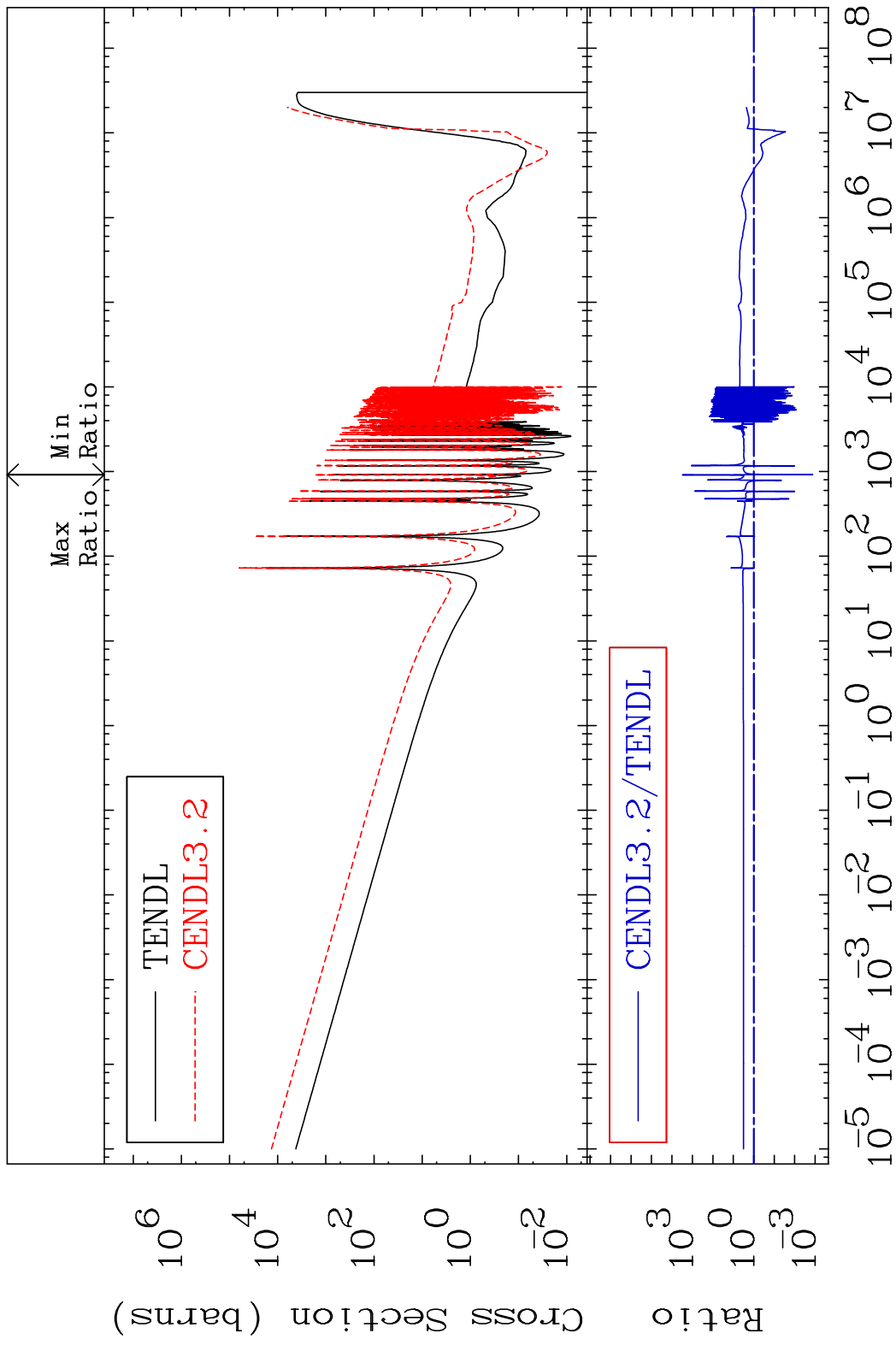
Incident Energy (eV)

72-Hf-180

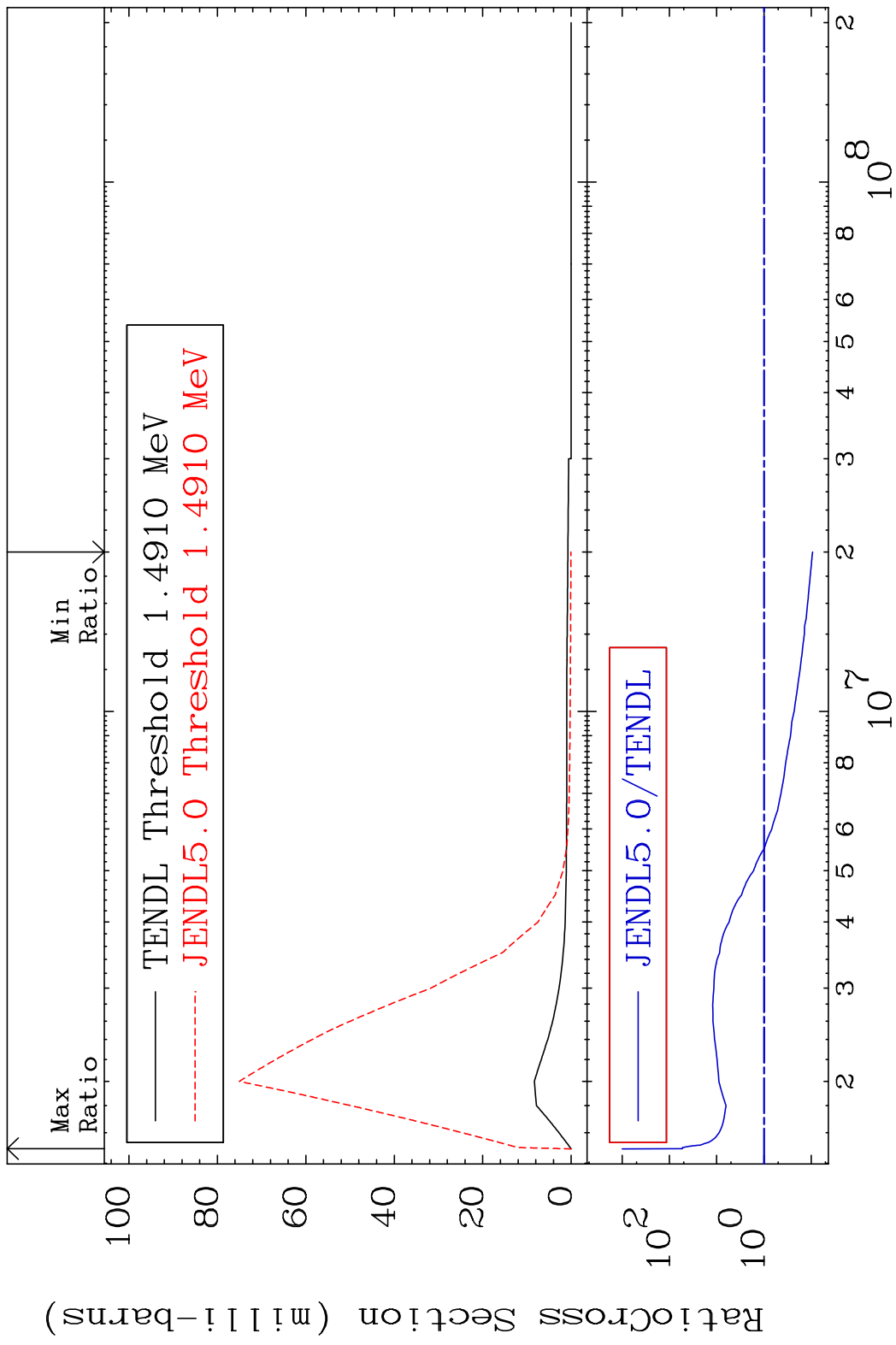
MAT 7243 Dpa inelastic (mt51-91) 72-Hf-180  
 Cross Section -59.66 To 9999. %



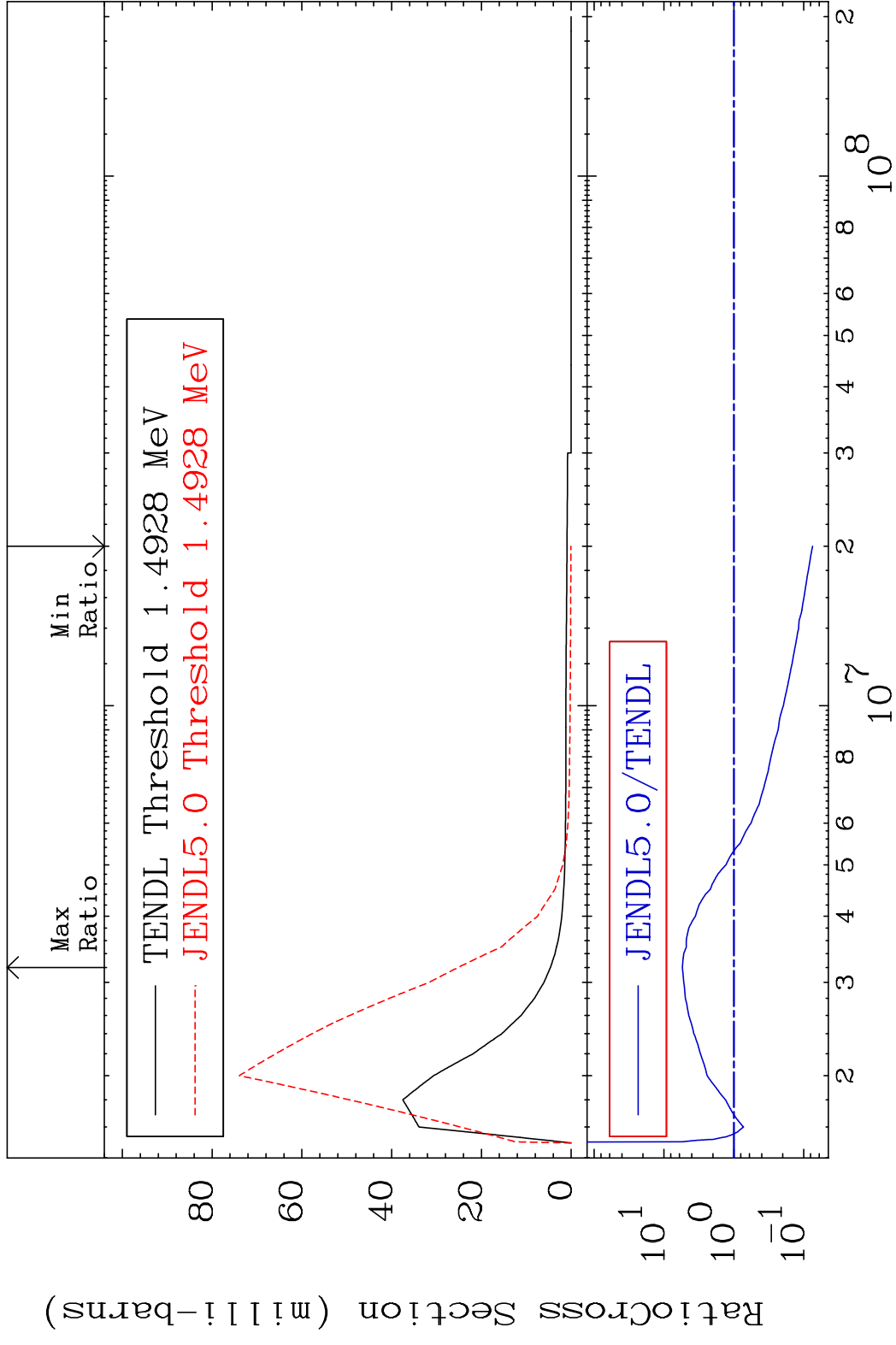
MAT 7243 Dpa disappearance (mt102 -120) 72-Hf-180  
 Cross Section -99.87 To 9999. %



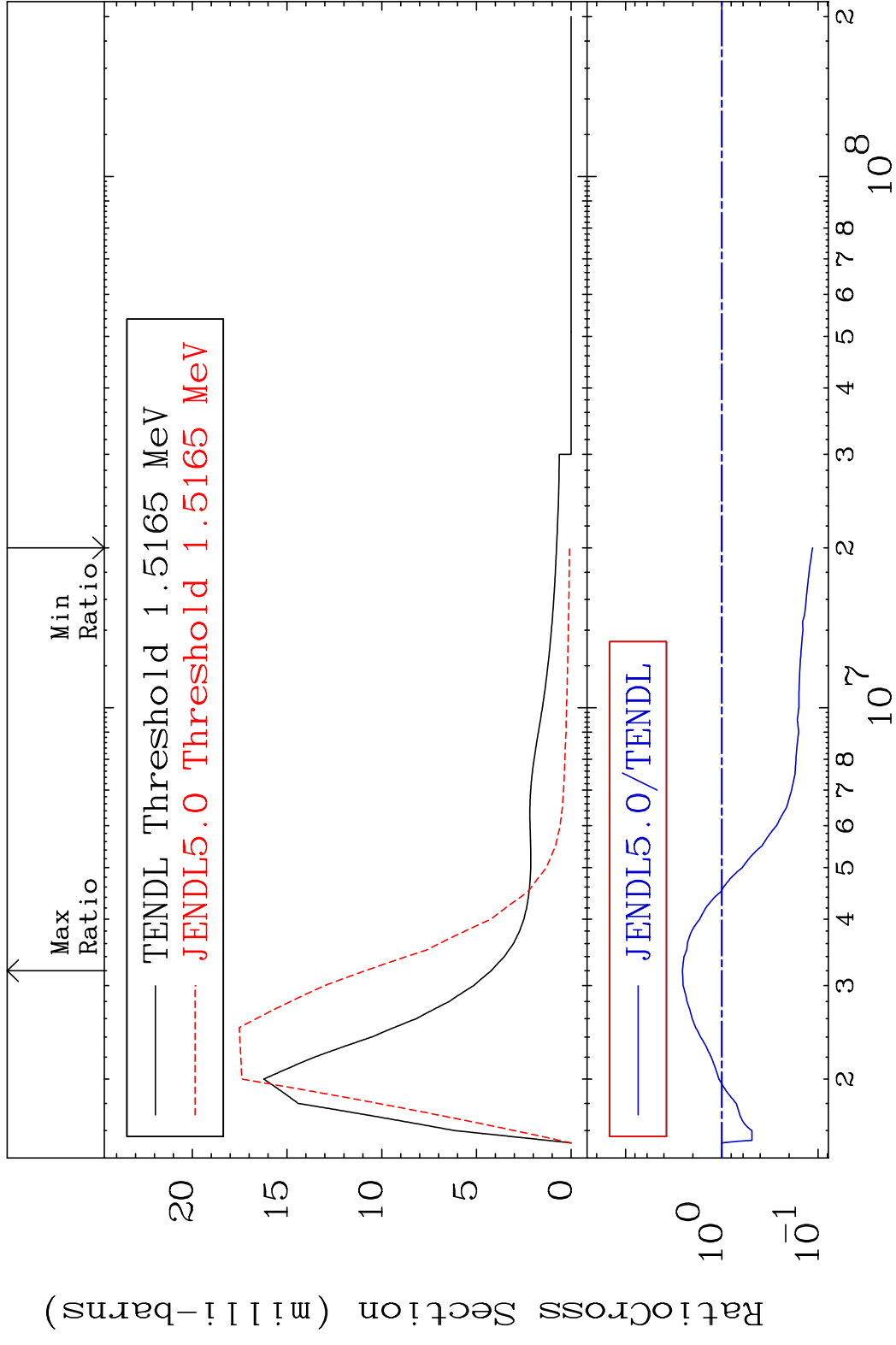
MAT 7243 MT= 76 (n, n') Level 72-Hf-180  
 Cross Section -90.65 To 5236. %



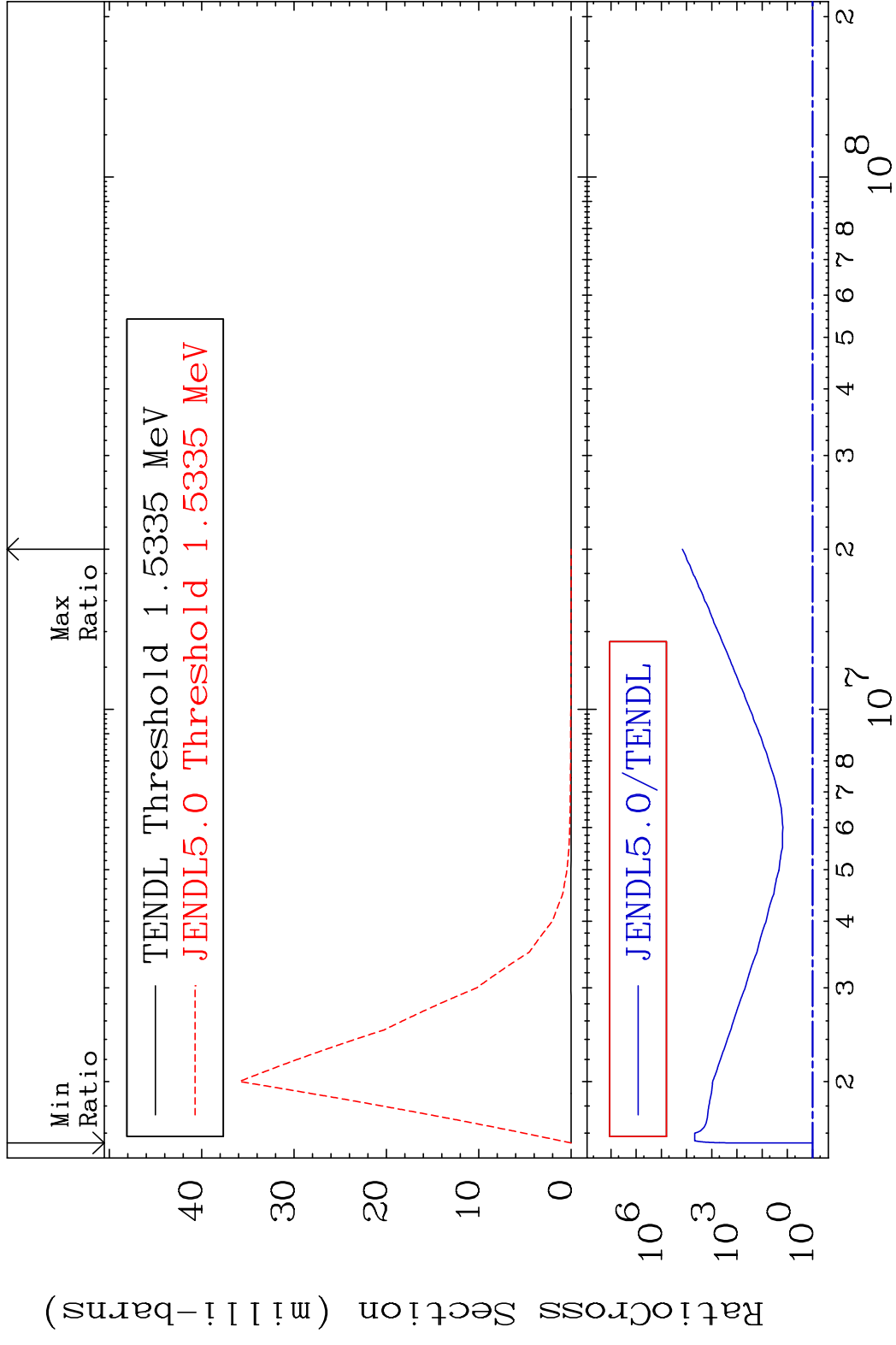
MAT 7243 MT= 77 (n,n') Level 72-Hf-180  
 Cross Section -92.51 To 446.6 %



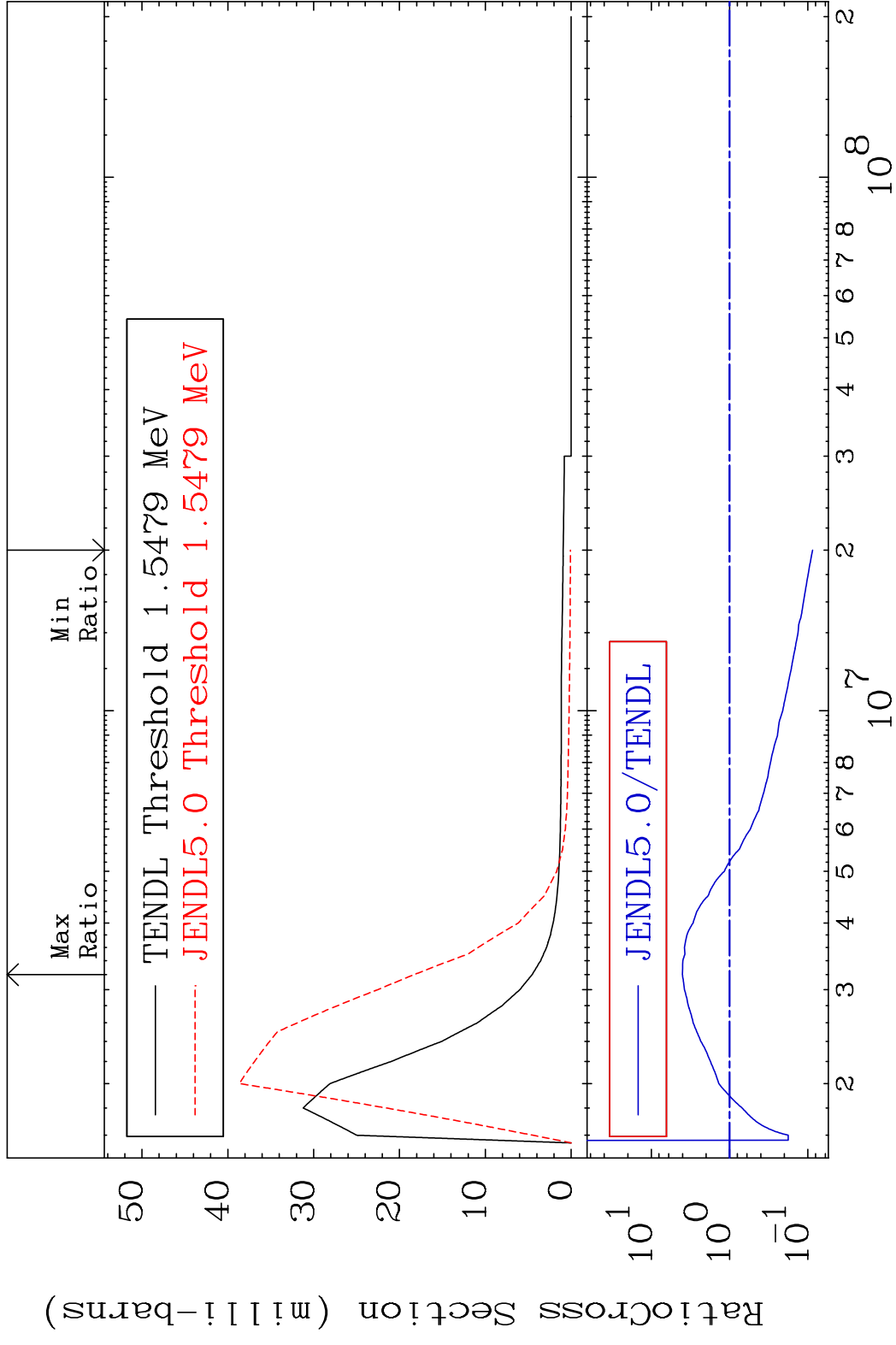
MAT 7243 MT= 78 (n, n') Level 72-Hf-180  
 Cross Section -88.60 To 157.2 %



MAT 7243 MT= 79 (n, n') Level 72-Hf-180  
 Cross Section 0.000 To 9999. %



MAT 7243 MT= 80 (n,n') Level 72-Hf-180  
 Cross Section -91.27 To 302.1 %

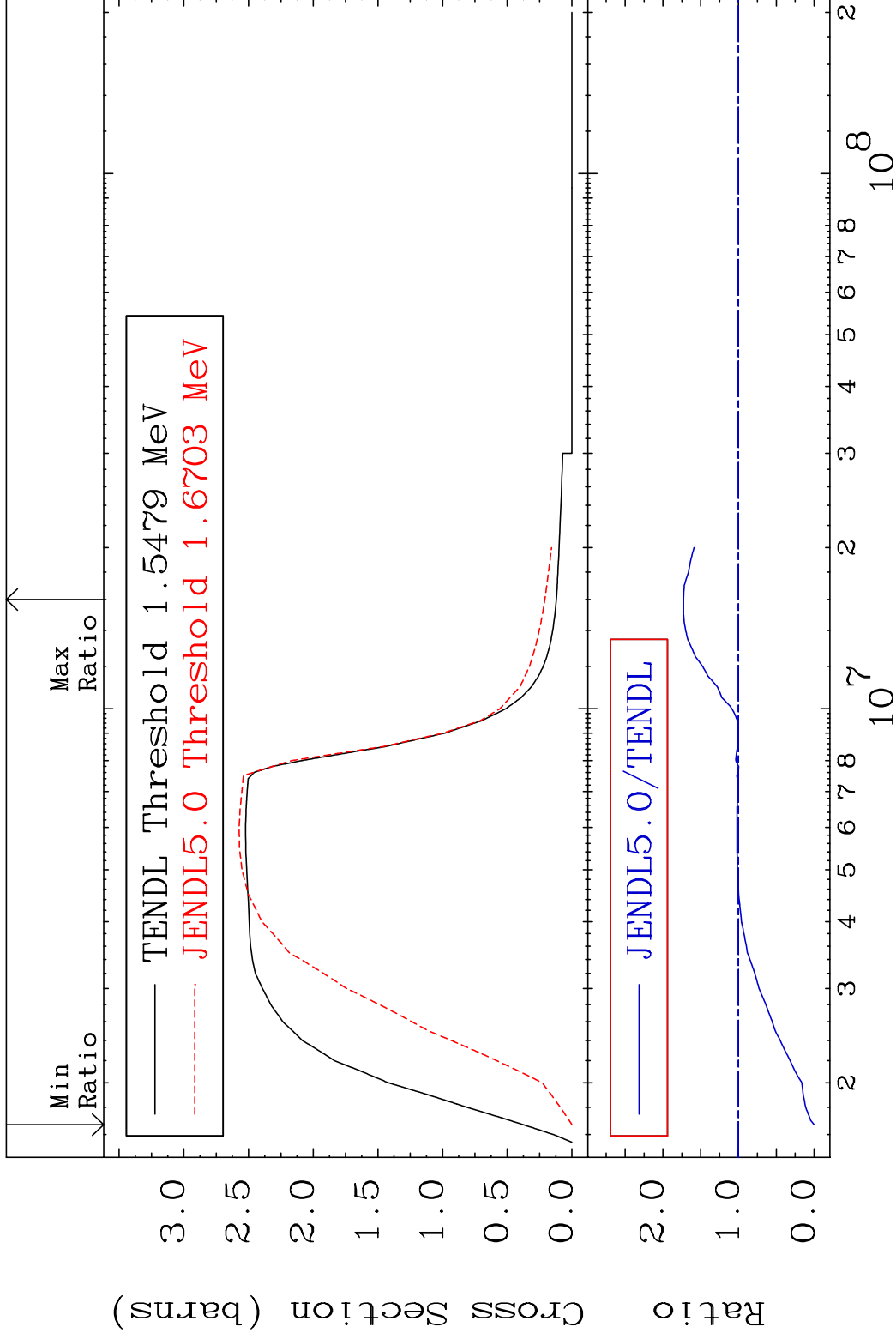


MAT 7243

(n,n') Continuum

72-Hf-180

Cross Section -100.0 To 72.83 %



39

Incident Energy (eV)

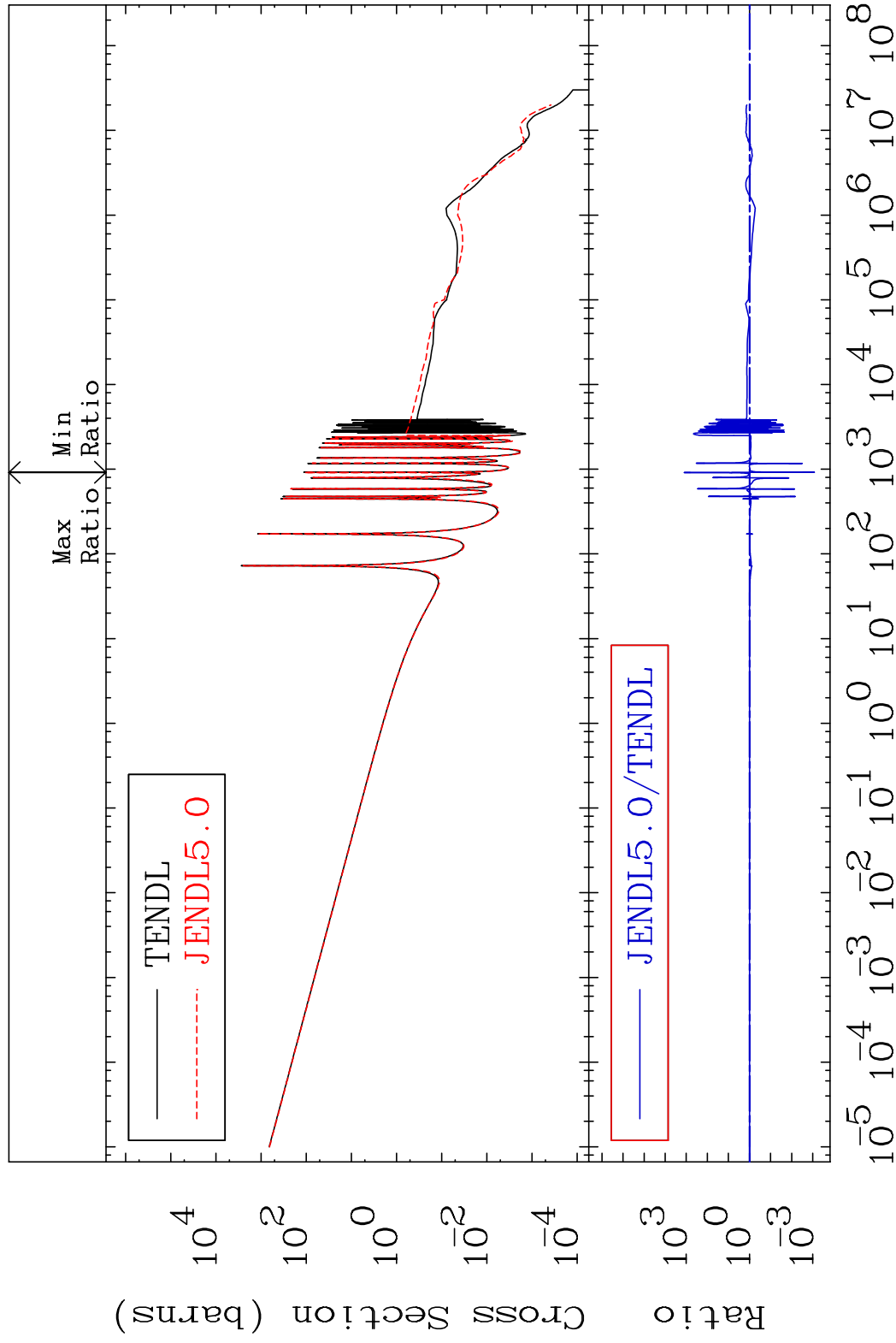
72-Hf-180

MAT 7243

(n,  $\gamma$ )

72-Hf-180

Cross Section -99.92 To 9999. %



40

Incident Energy (eV)

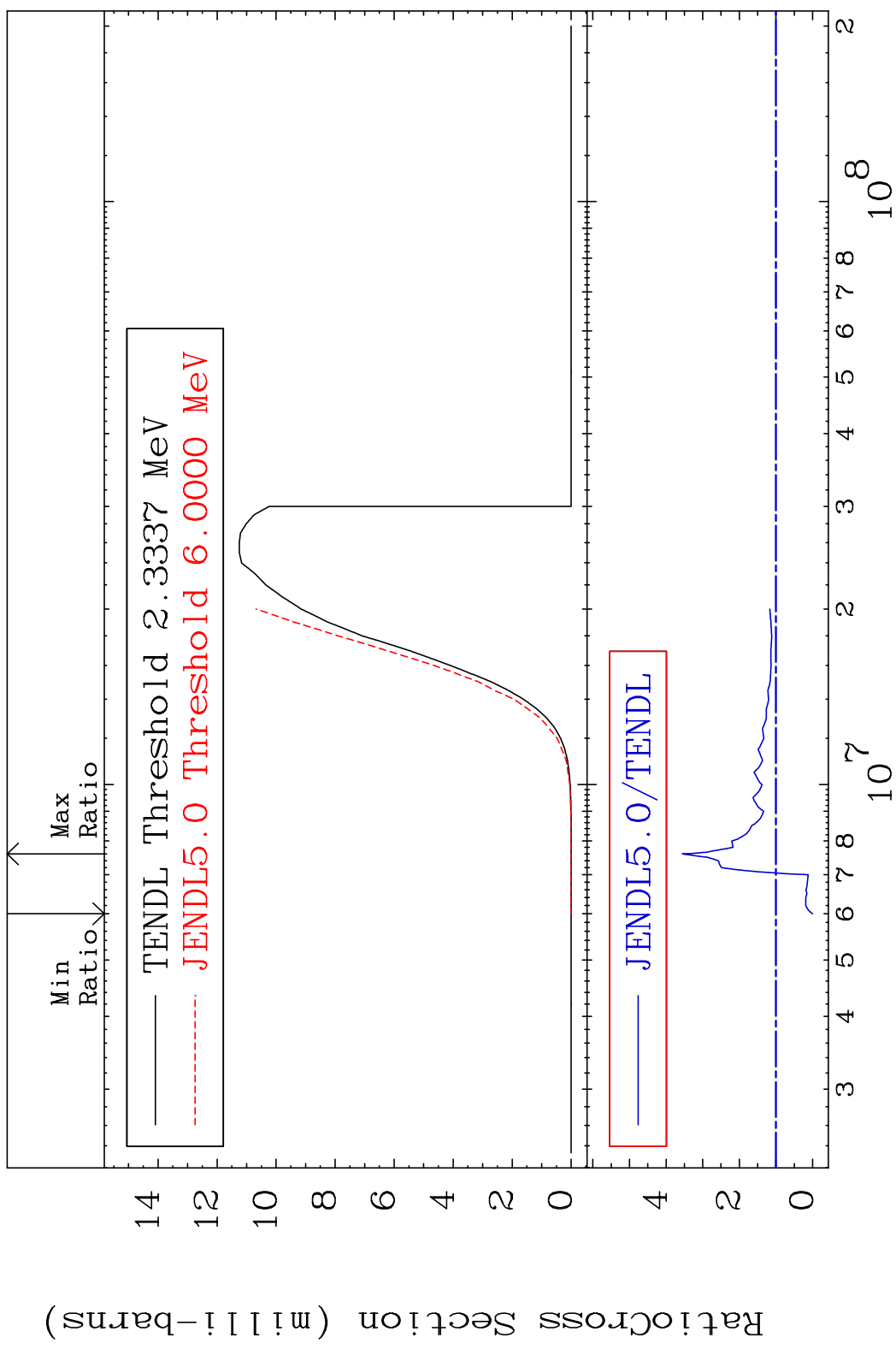
72-Hf-180

MAT 7243

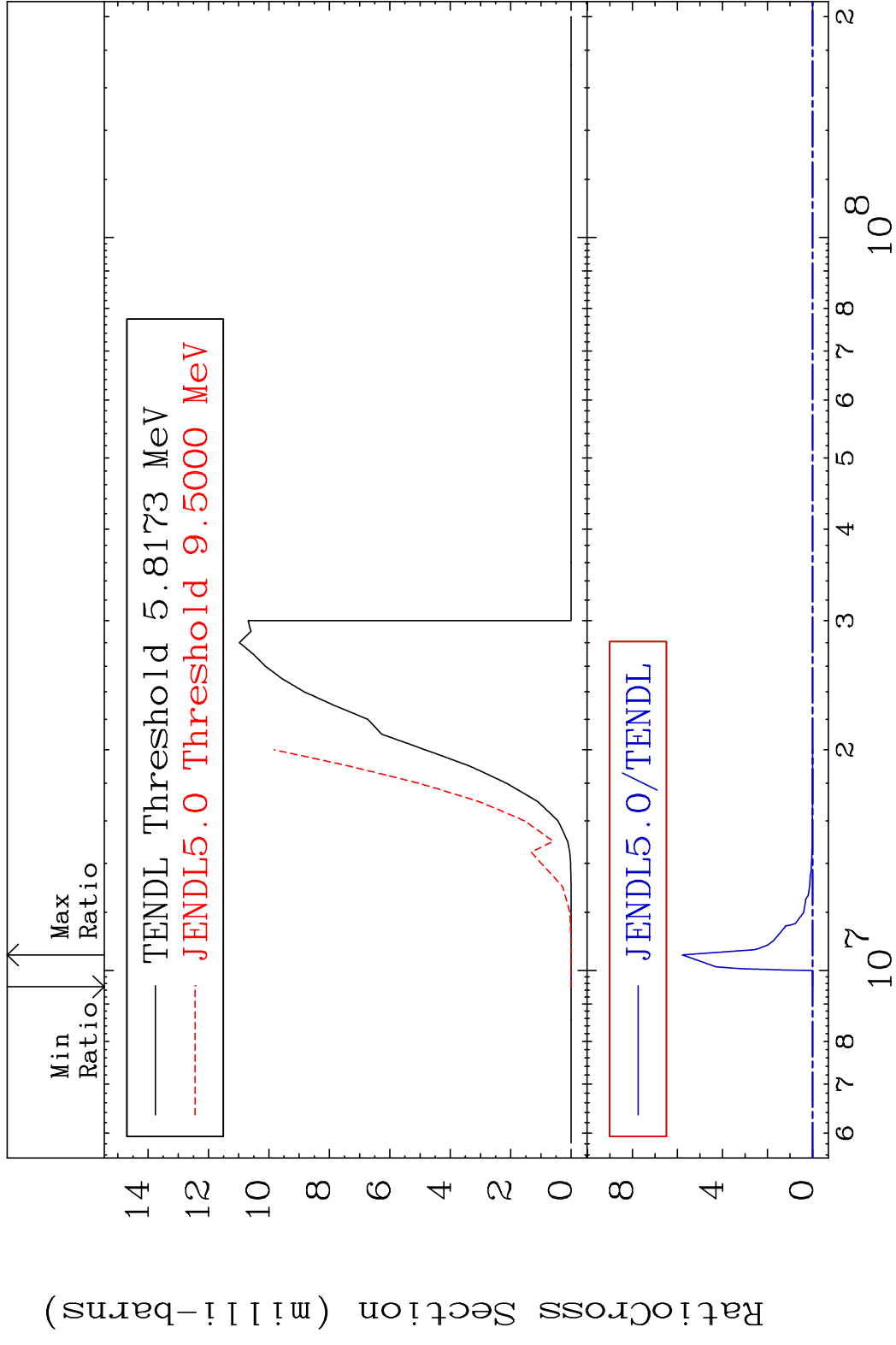
(n, p)

72-Hf-180

Cross Section -100.0 To 255.6 %



MAT 7243 (n,d) 72-Hf-180  
 Cross Section -100.0 To 9999. %

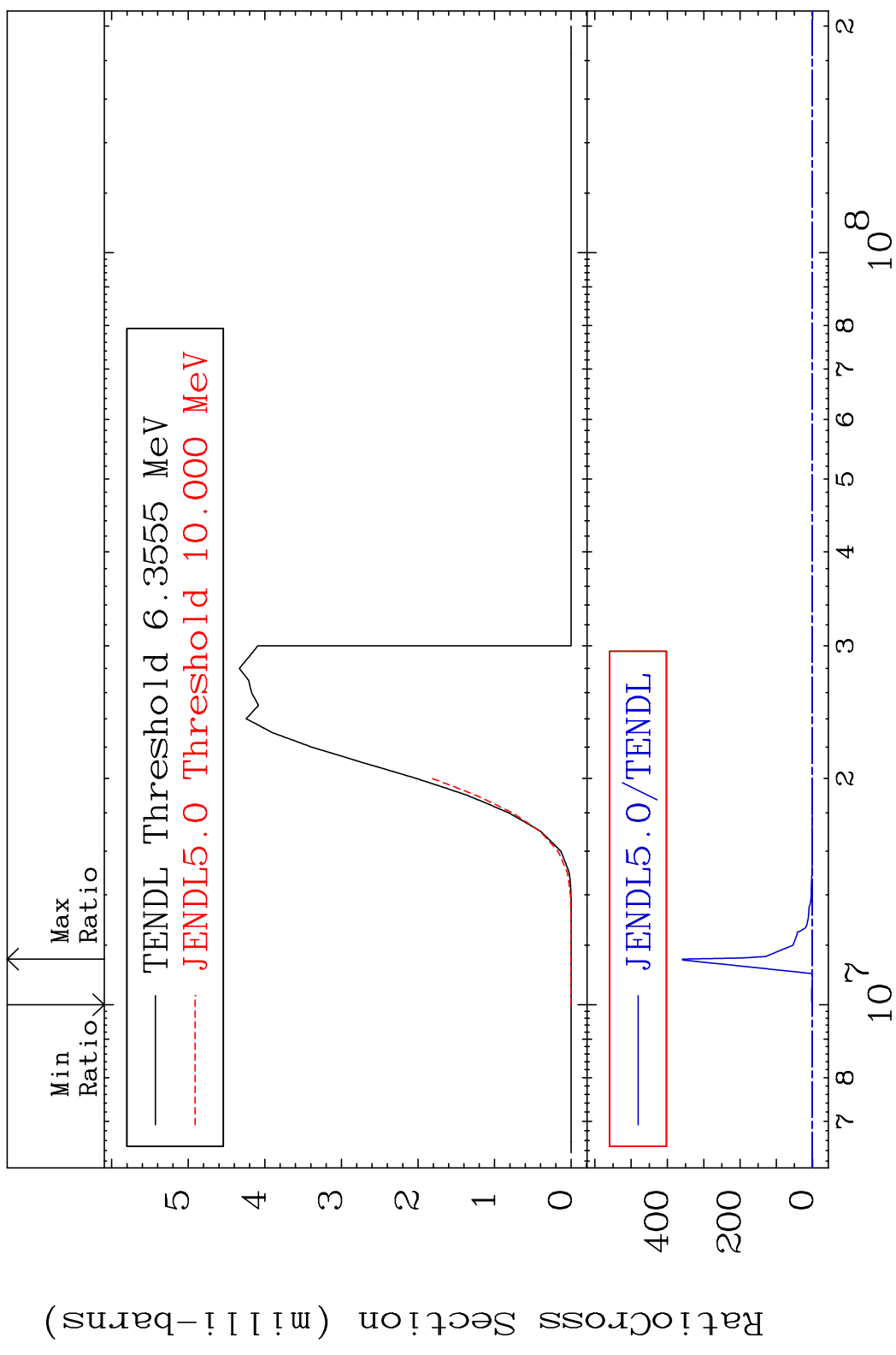


MAT 7243

(n, t)

72-Hf-180

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

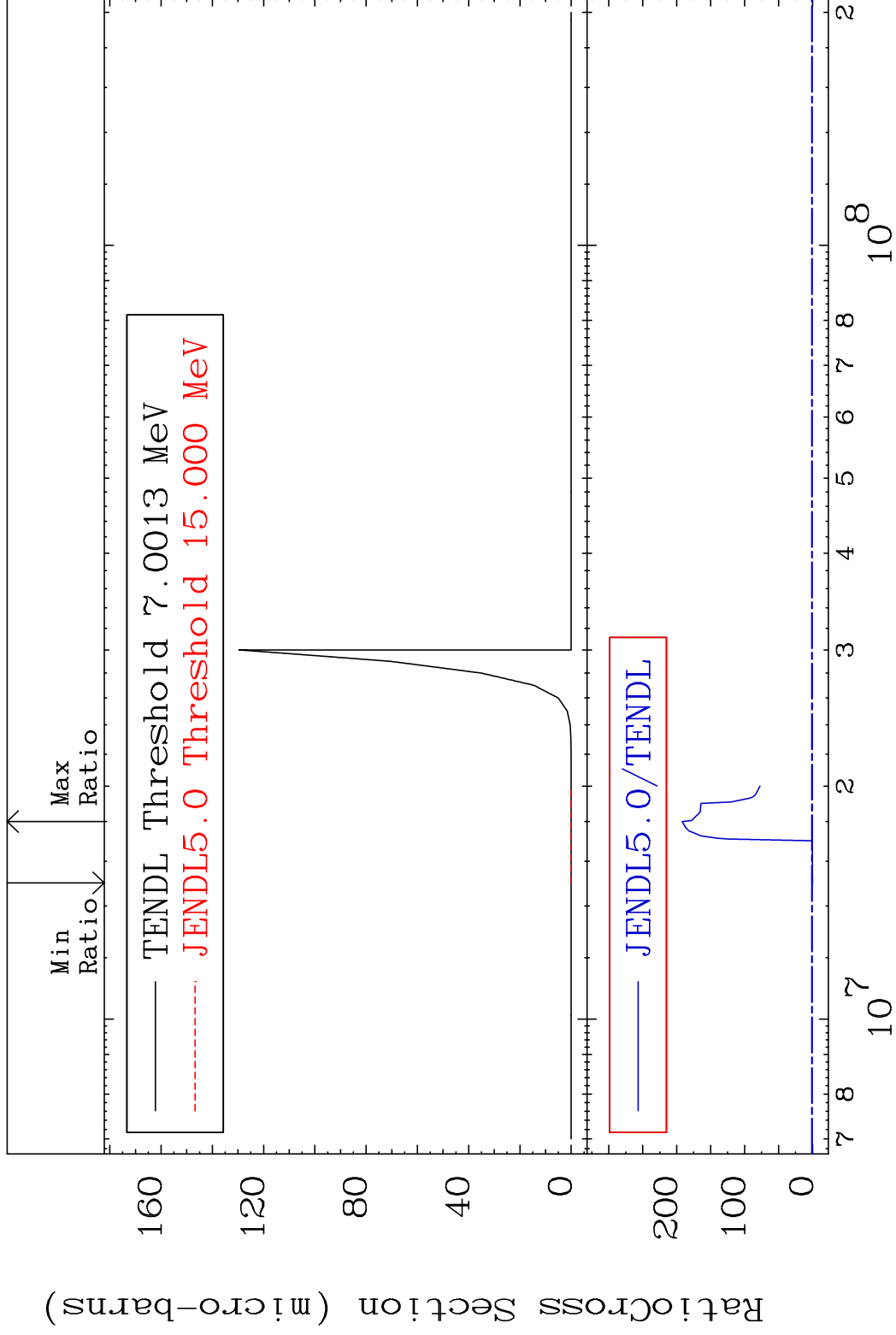
72-Hf-180

MAT 7243

(n, He-3)

72-Hf-180

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

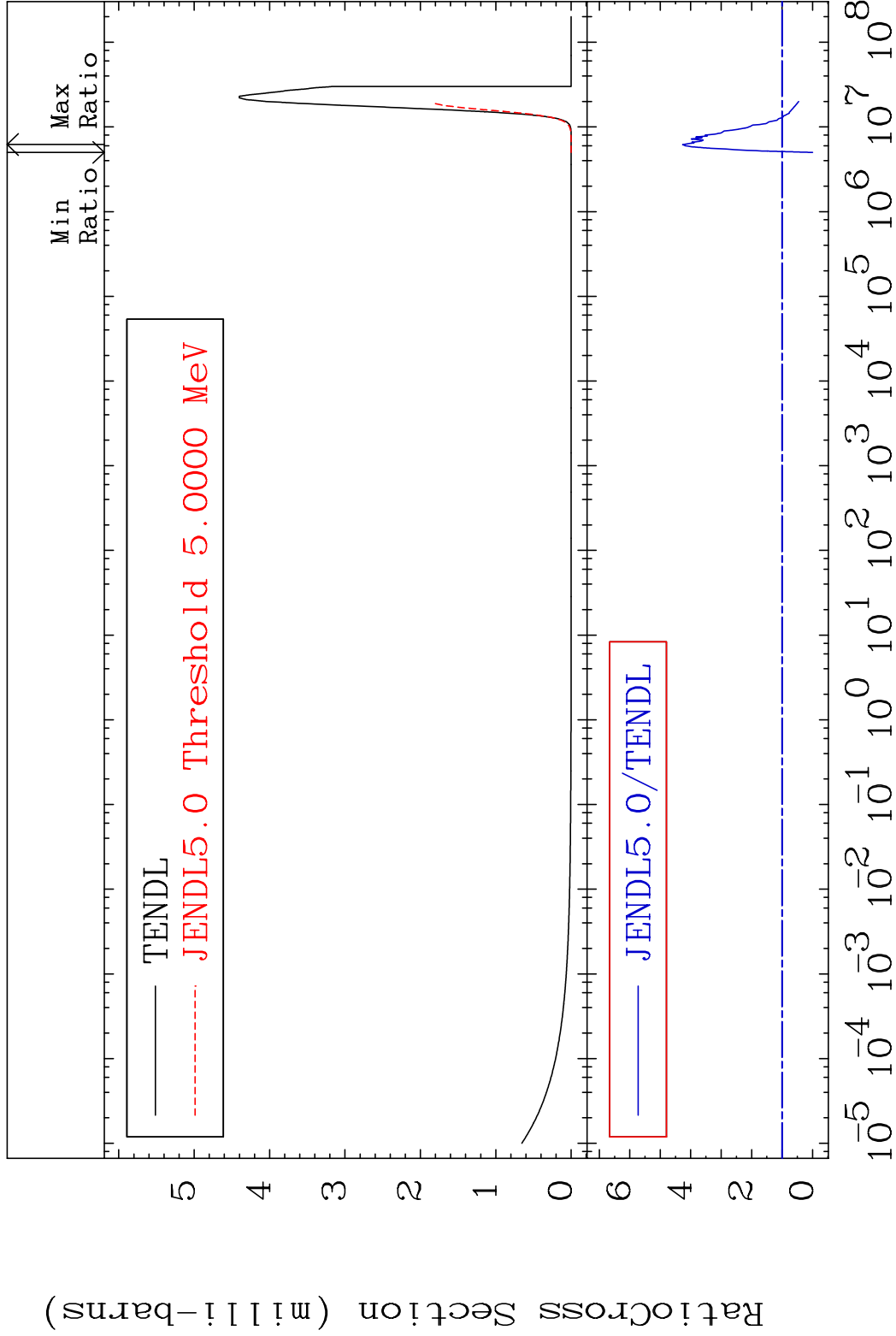
72-Hf-180

MAT 7243

(n,  $\alpha$ )

72-Hf-180

Cross Section -100.0 To 327.4 %



45

Incident Energy (eV)

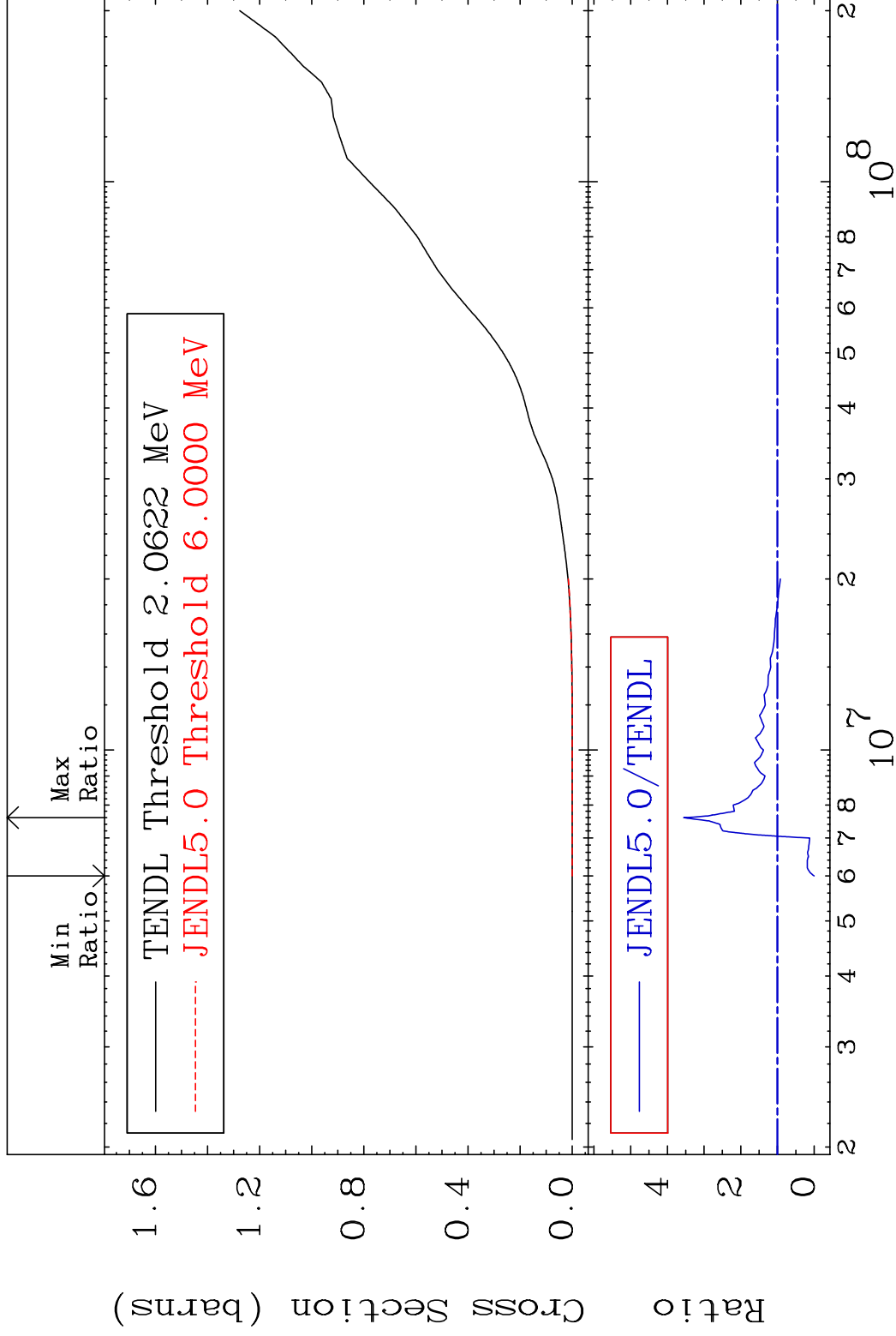
72-Hf-180

MAT 7243

Hydrogen Production

72-Hf-180

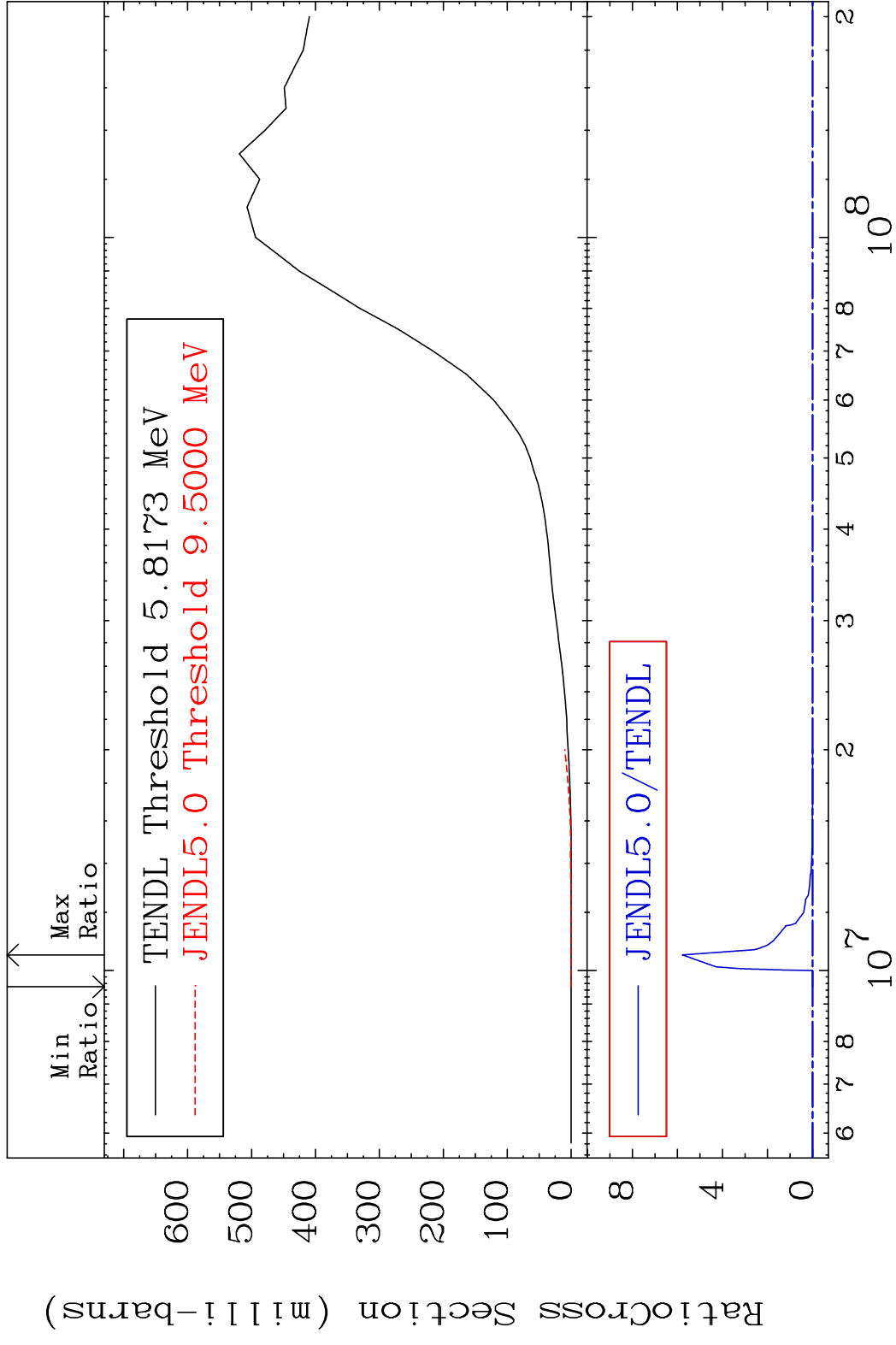
Cross Section -100.0 To 255.6 %



46

Incident Energy (eV)

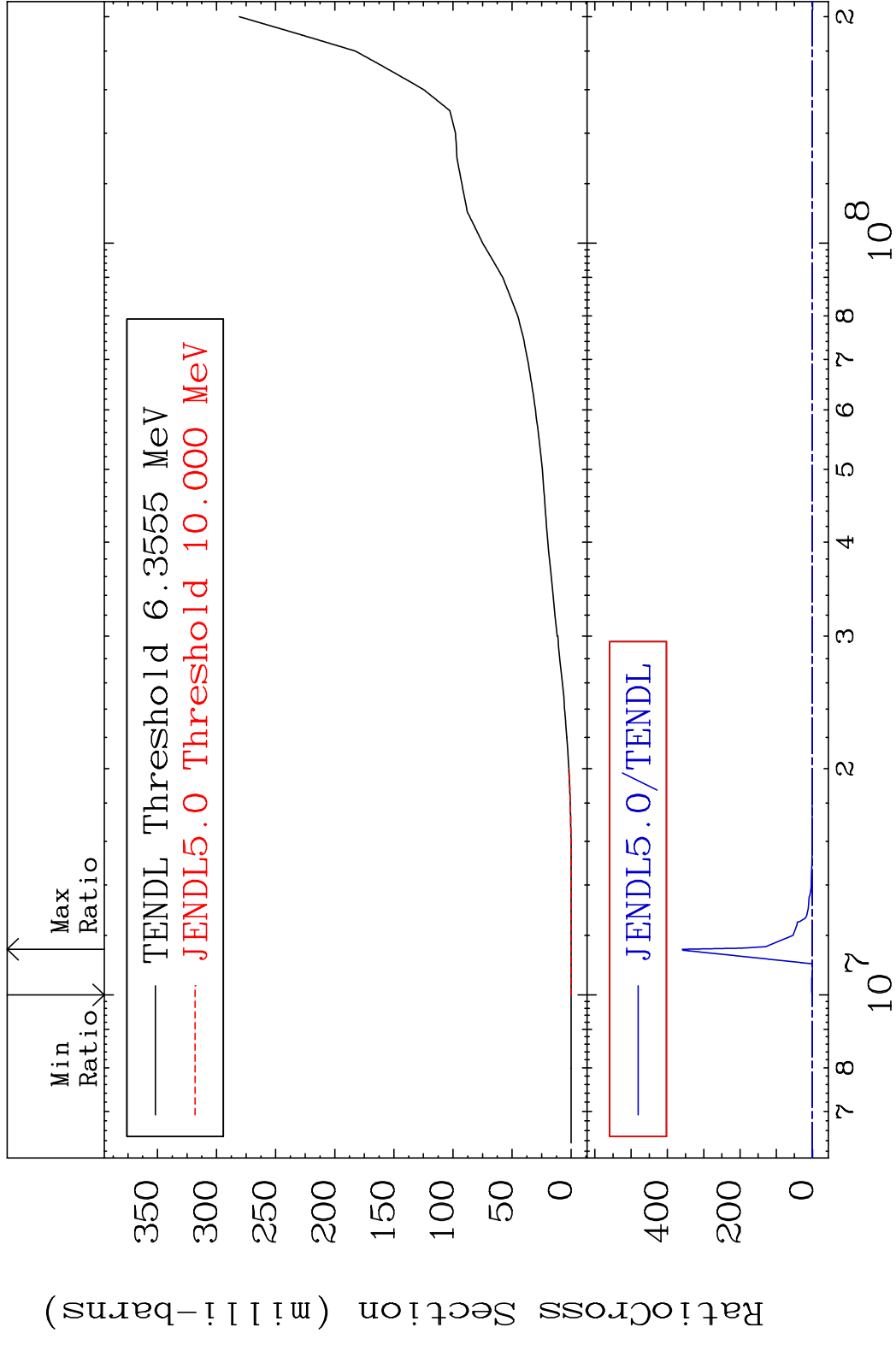
72-Hf-180



MAT 7243

Tritium Production 72-Hf-180

Cross Section -100.0 To 9999. %

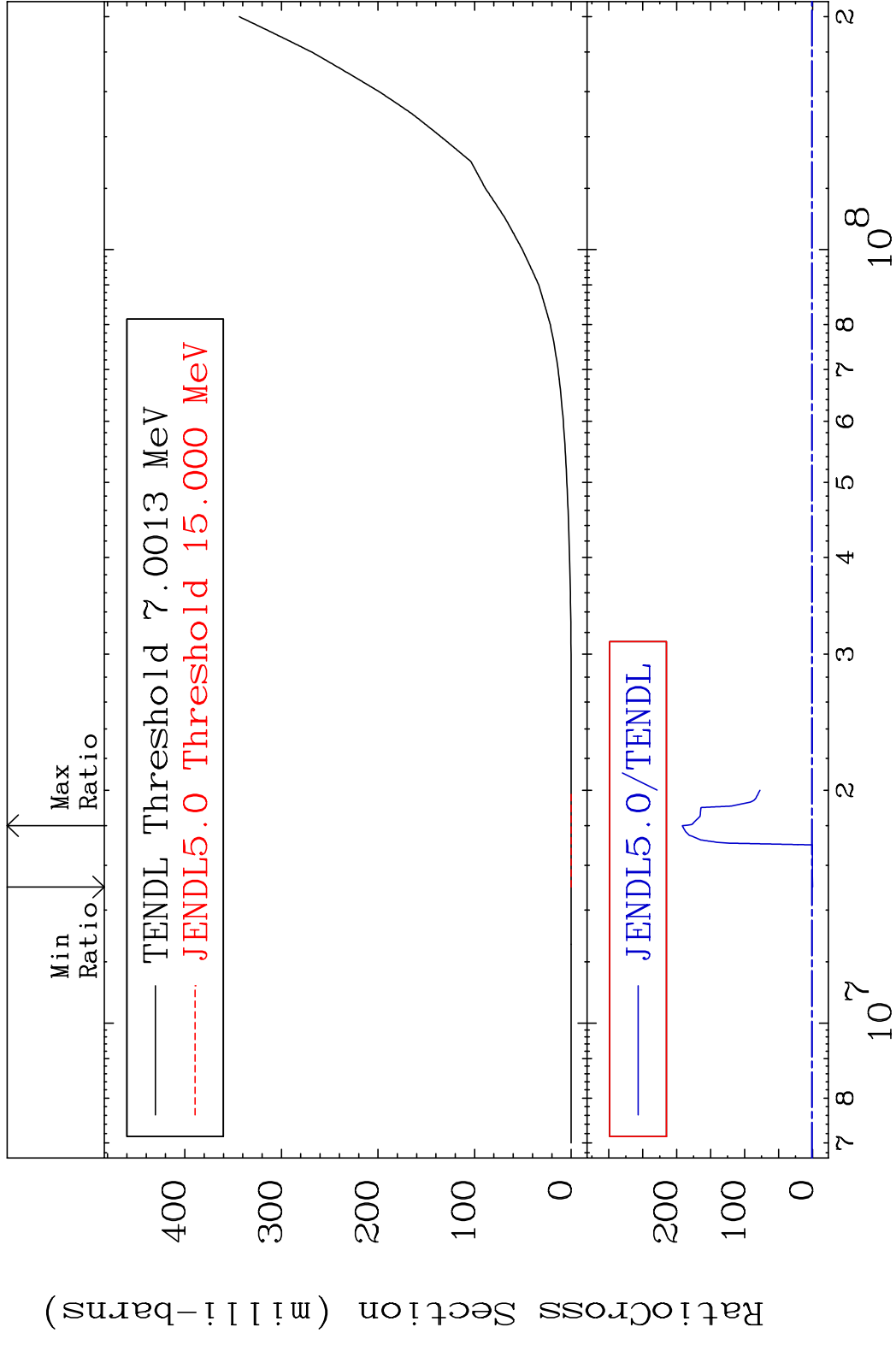


MAT 7243

He-3 Production

72-Hf-180

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

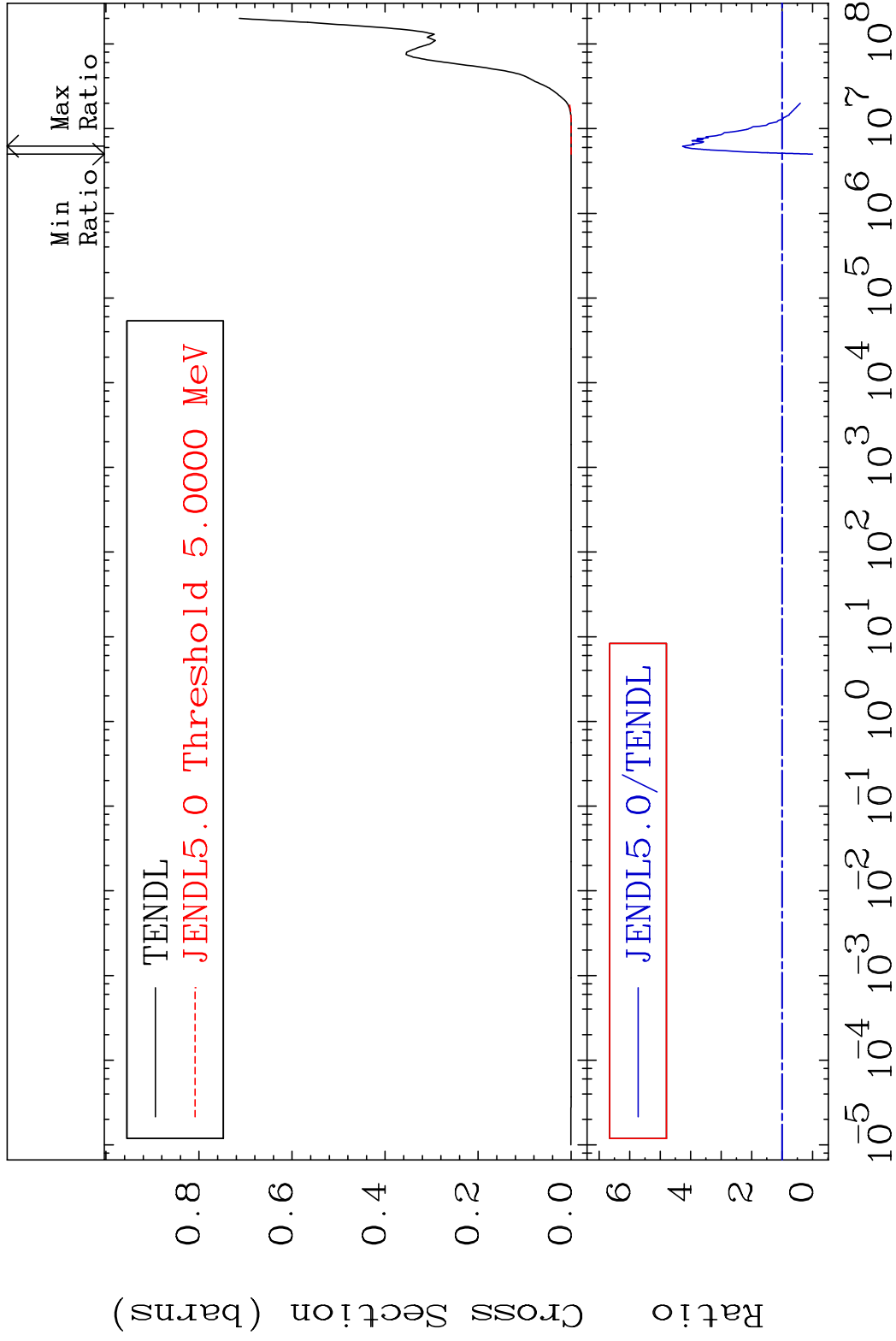
72-Hf-180

MAT 7243

He-4 Production

72-Hf-180

Cross Section -100.0 To 327.3 %

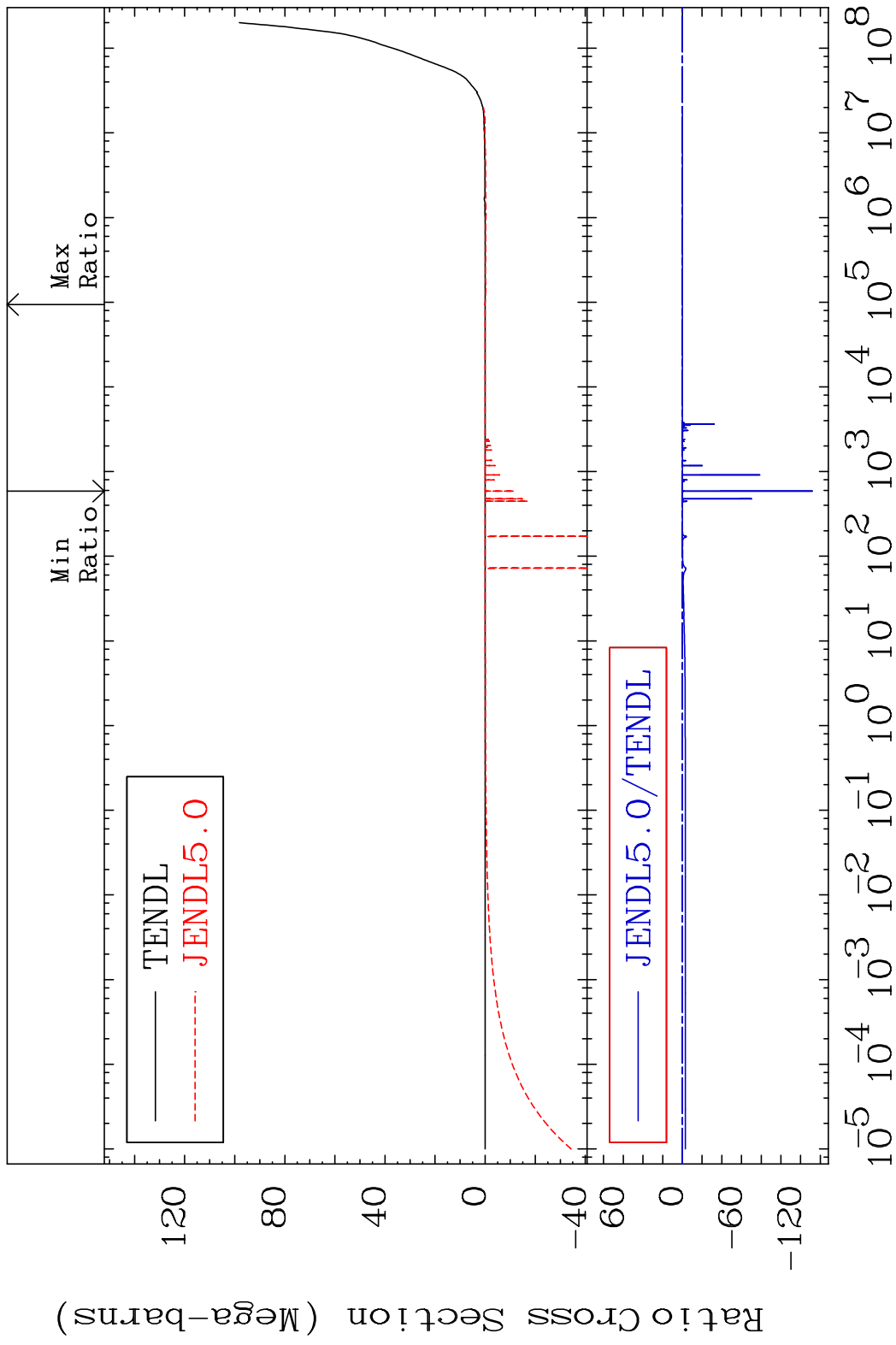


50

Incident Energy (eV)

72-Hf-180

MAT 7243 Kerma total (eV-barns) 72-Hf-180  
 Cross Section -9999. To 1927. %

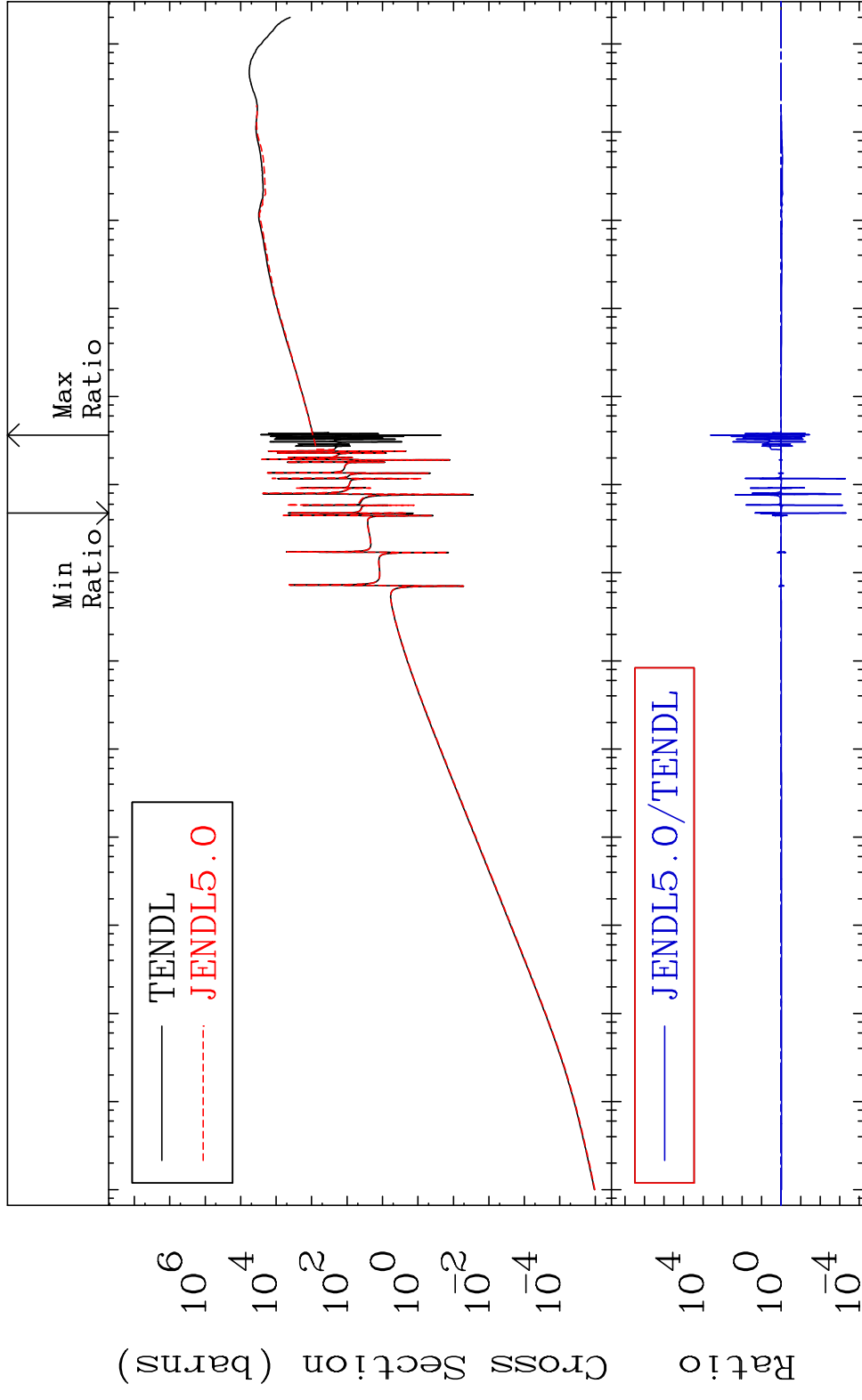


MAT 7243

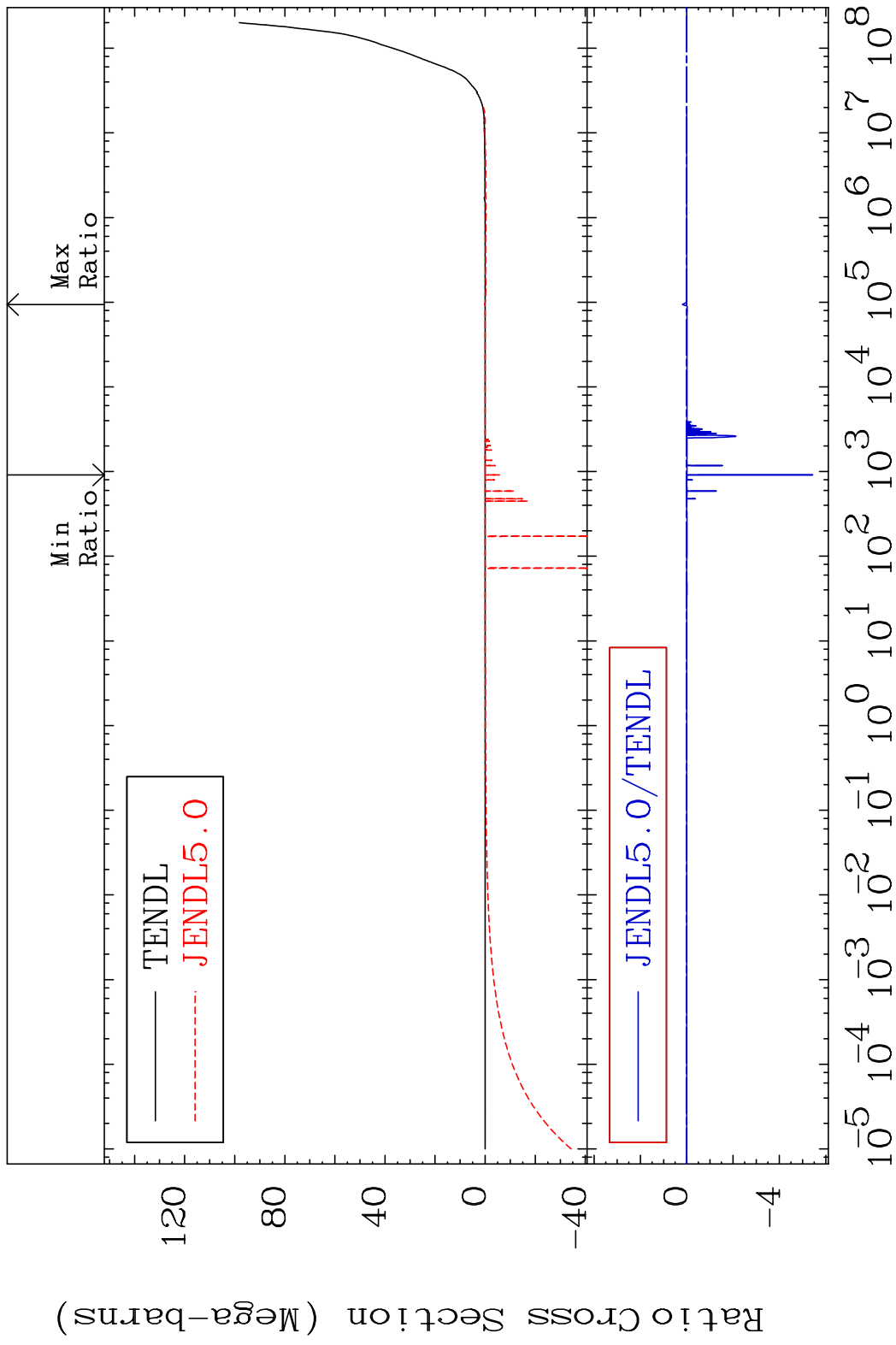
Kerma elastic  
Cross Section

72-Hf-180

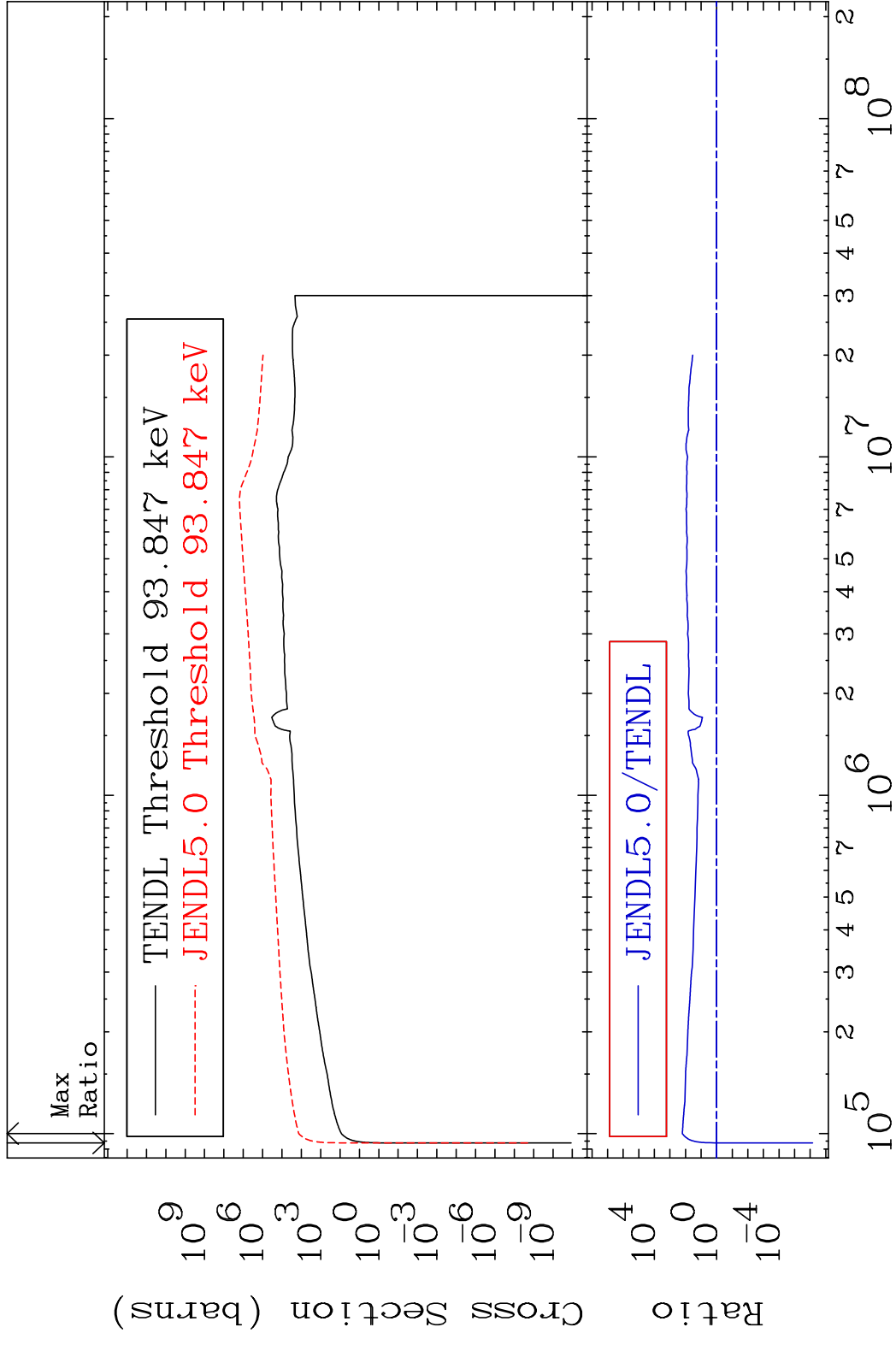
-99.95 To 9999. %



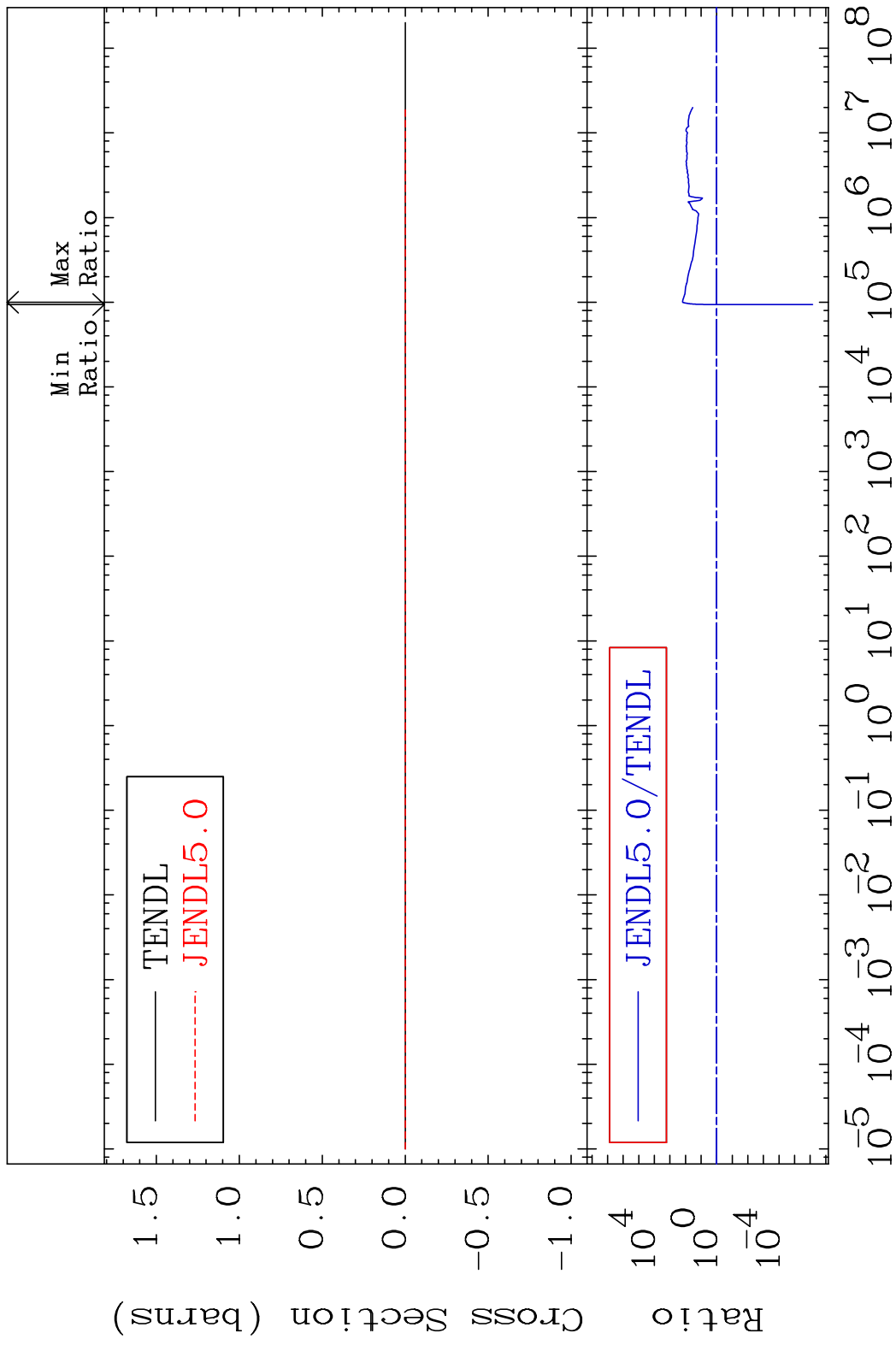
MAT 7243 Kerma non-elastic (all but mt2) 72-Hf-180  
Cross Section -9999. To 9999. %

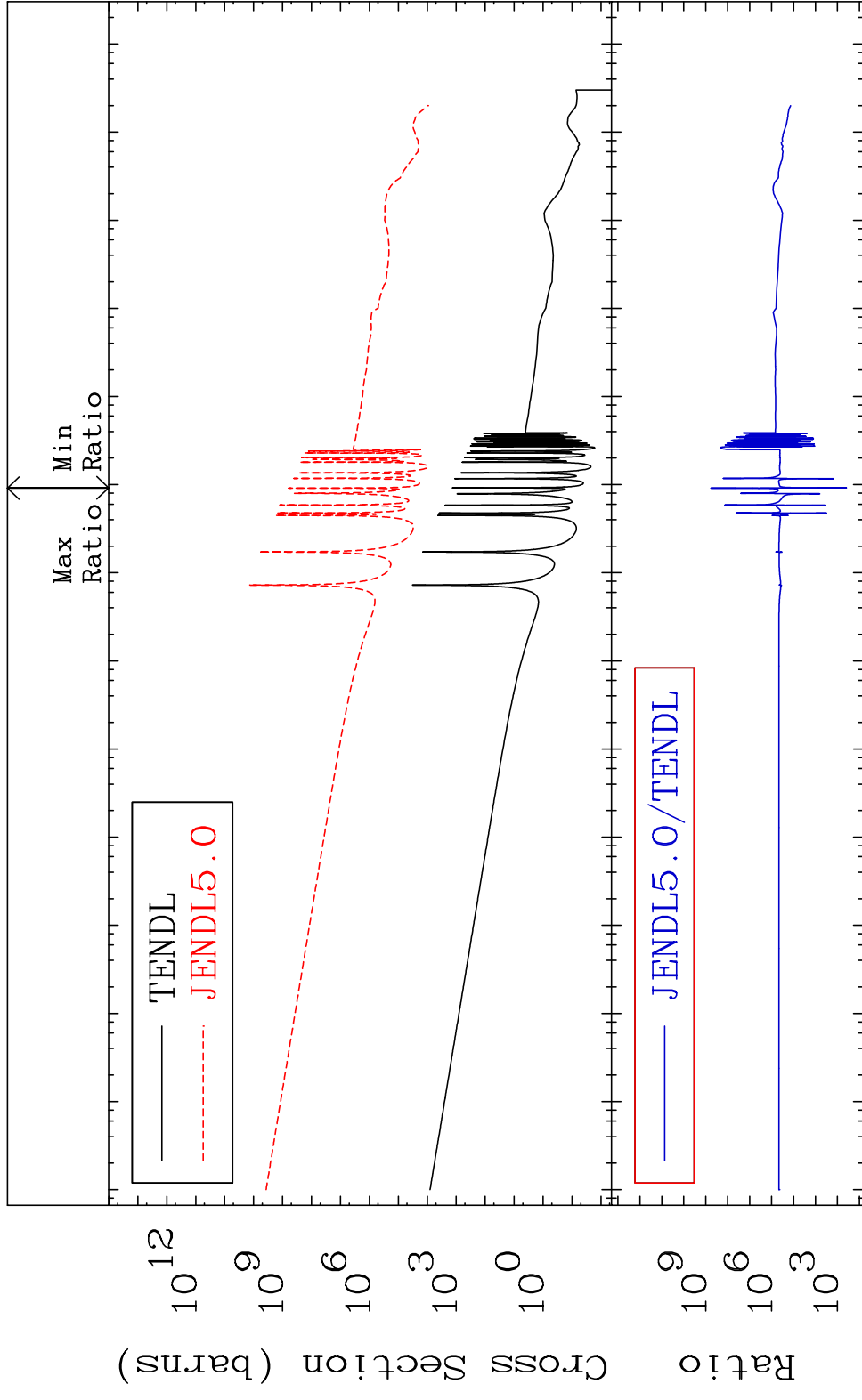


MAT 7243 Kerma inelastic (mt51-91) 72-Hf-180  
 Cross Section -100.0 To 9999. %



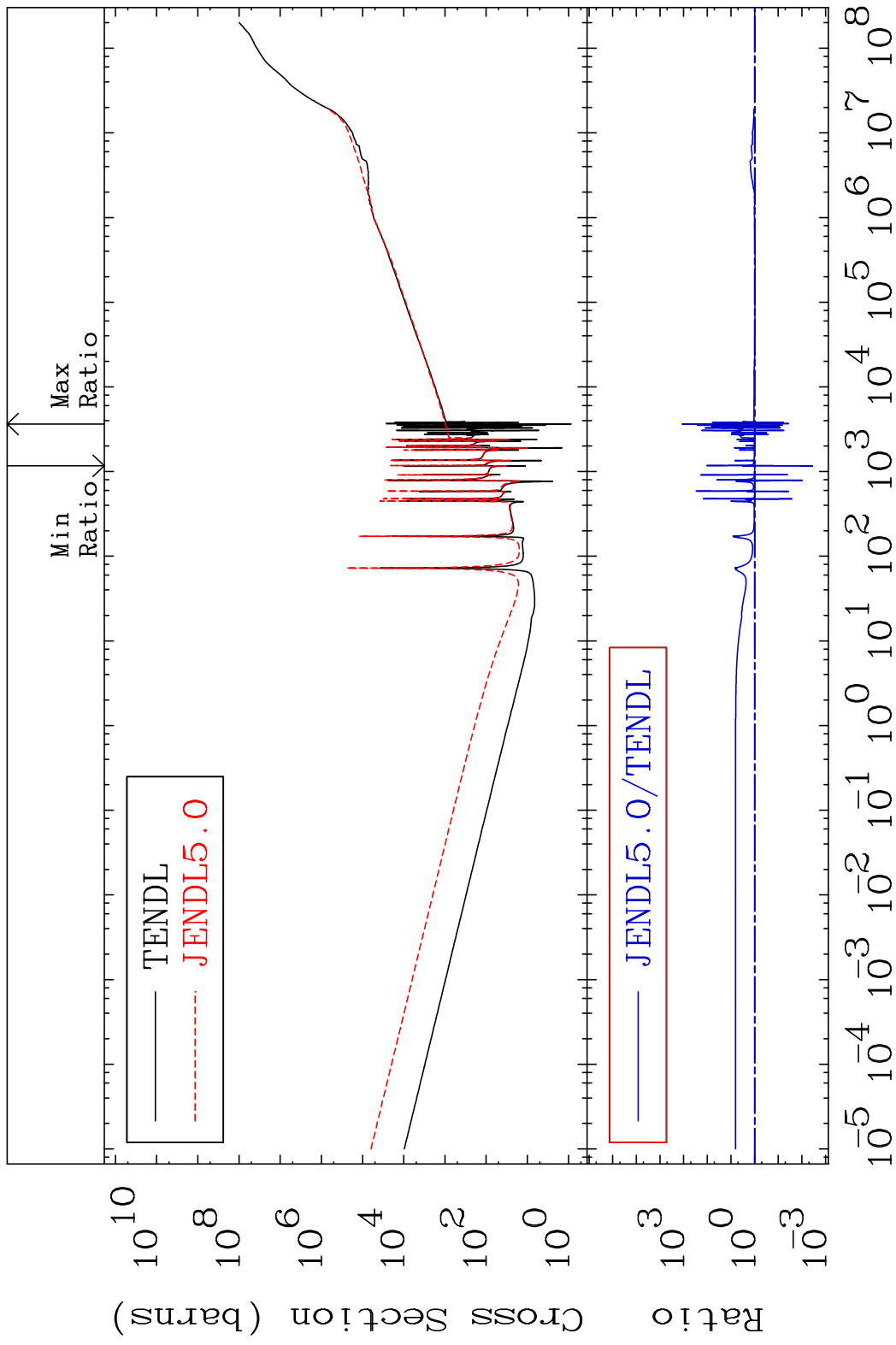
MAT 7243 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-180  
 Cross Section -100.0 To 9999. %



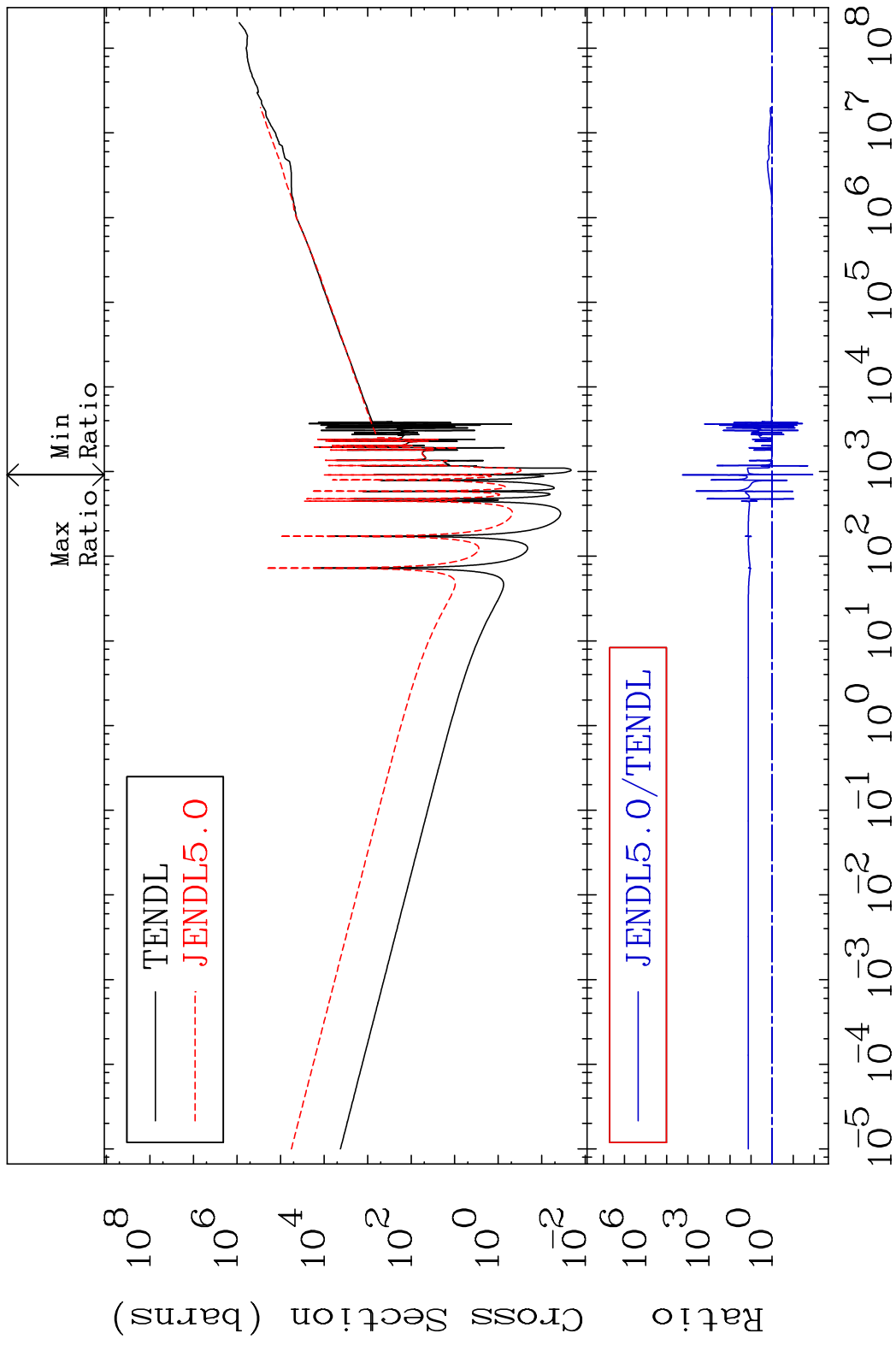




MAT 7243 Total kinematic kerma (high limit) 72-Hf-180  
 Cross Section -99.65 To 9999. %



MAT 7243      Dpa total (eV-barns)      72-Hf-180  
 Cross Section      -98.80 To 9999. %



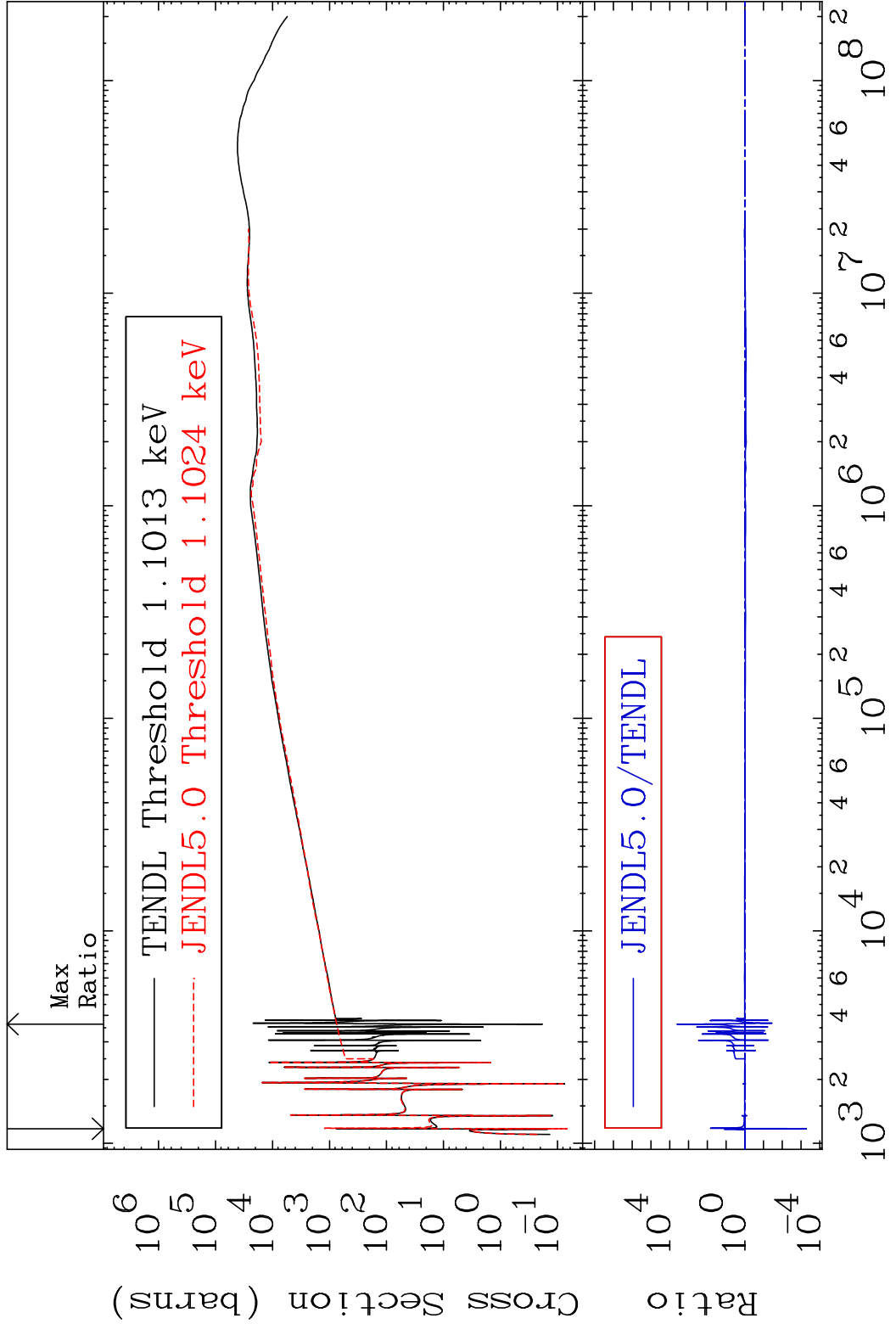
59      Incident Energy (eV)      72-Hf-180

MAT 7243

Dpa elastic (mt2)

72-Hf-180

Cross Section -99.95 To 9999. %

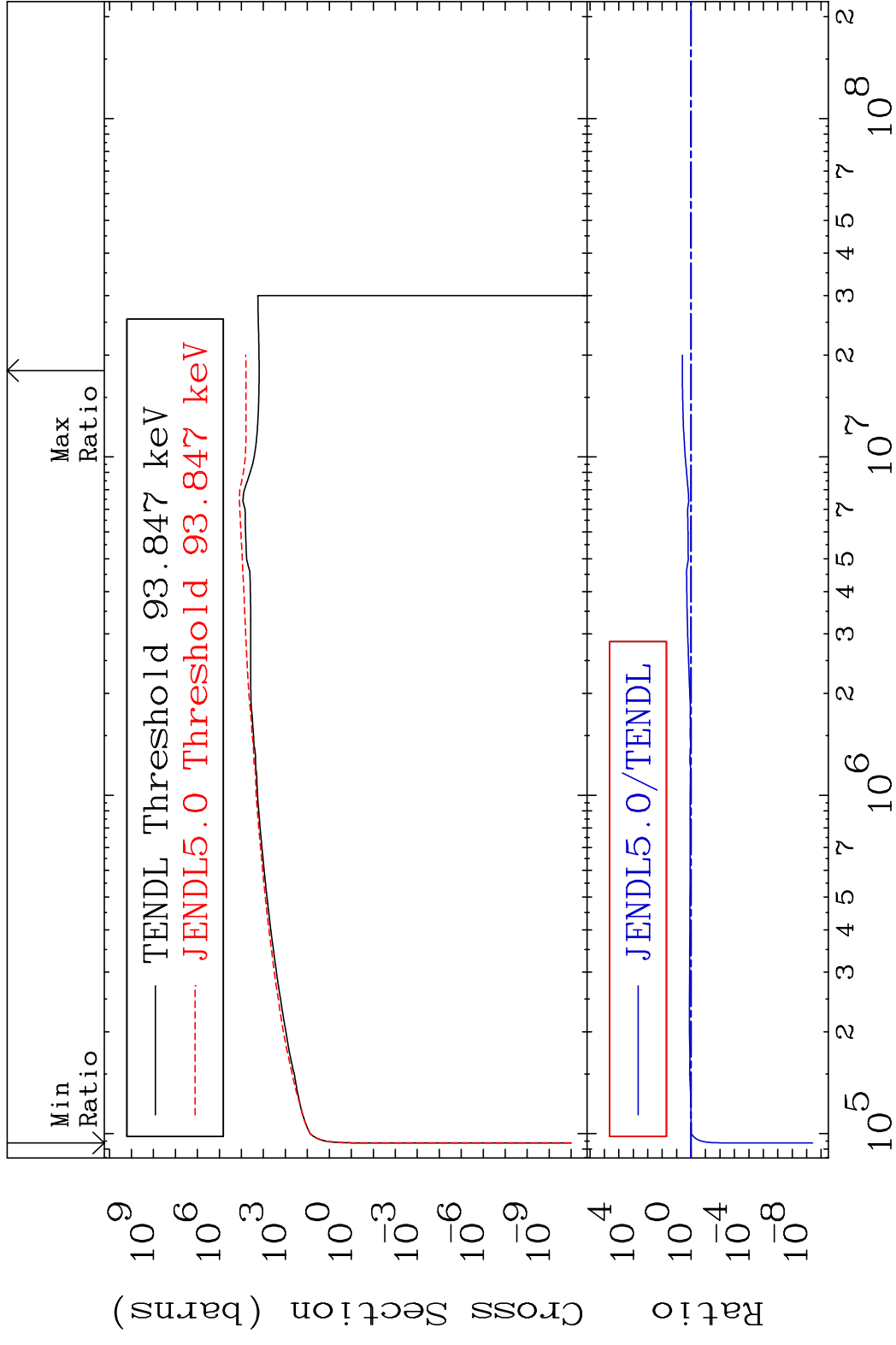


60

Incident Energy (eV)

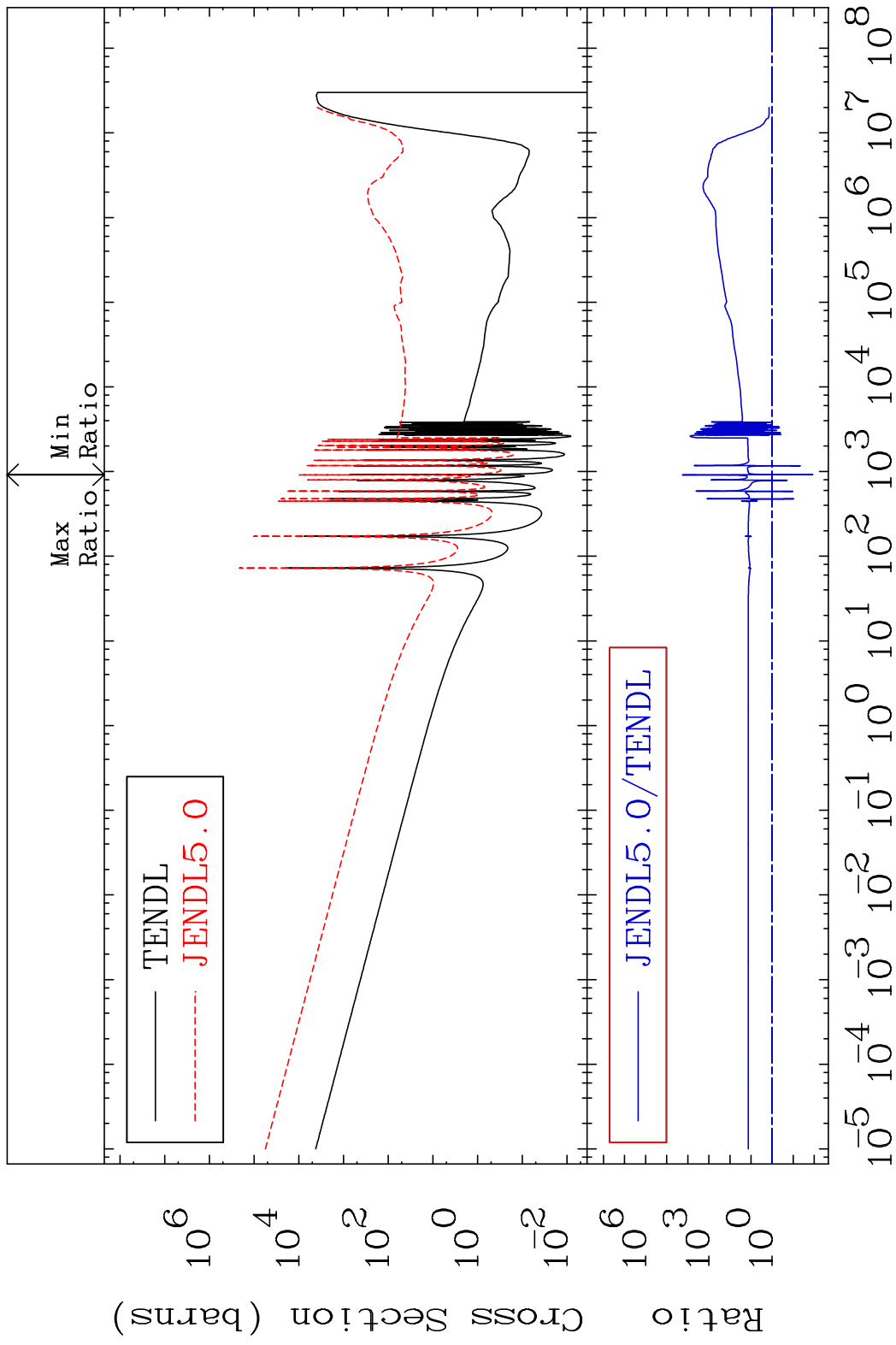
72-Hf-180

MAT 7243 Dpa inelastic (mt51-91) 72-Hf-180  
 Cross Section -100.0 To 301.6 %

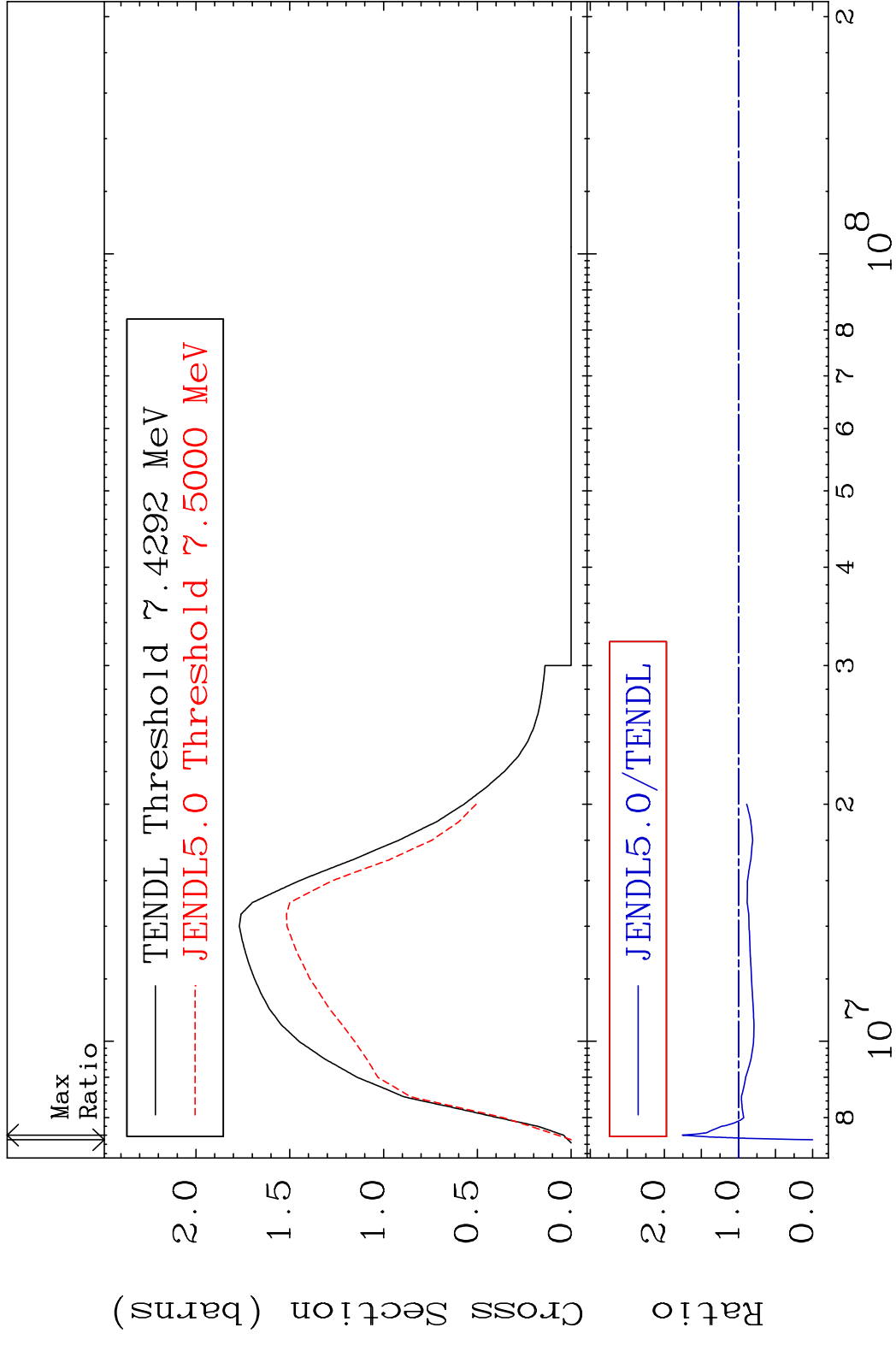


61 Incident Energy (eV) 72-Hf-180

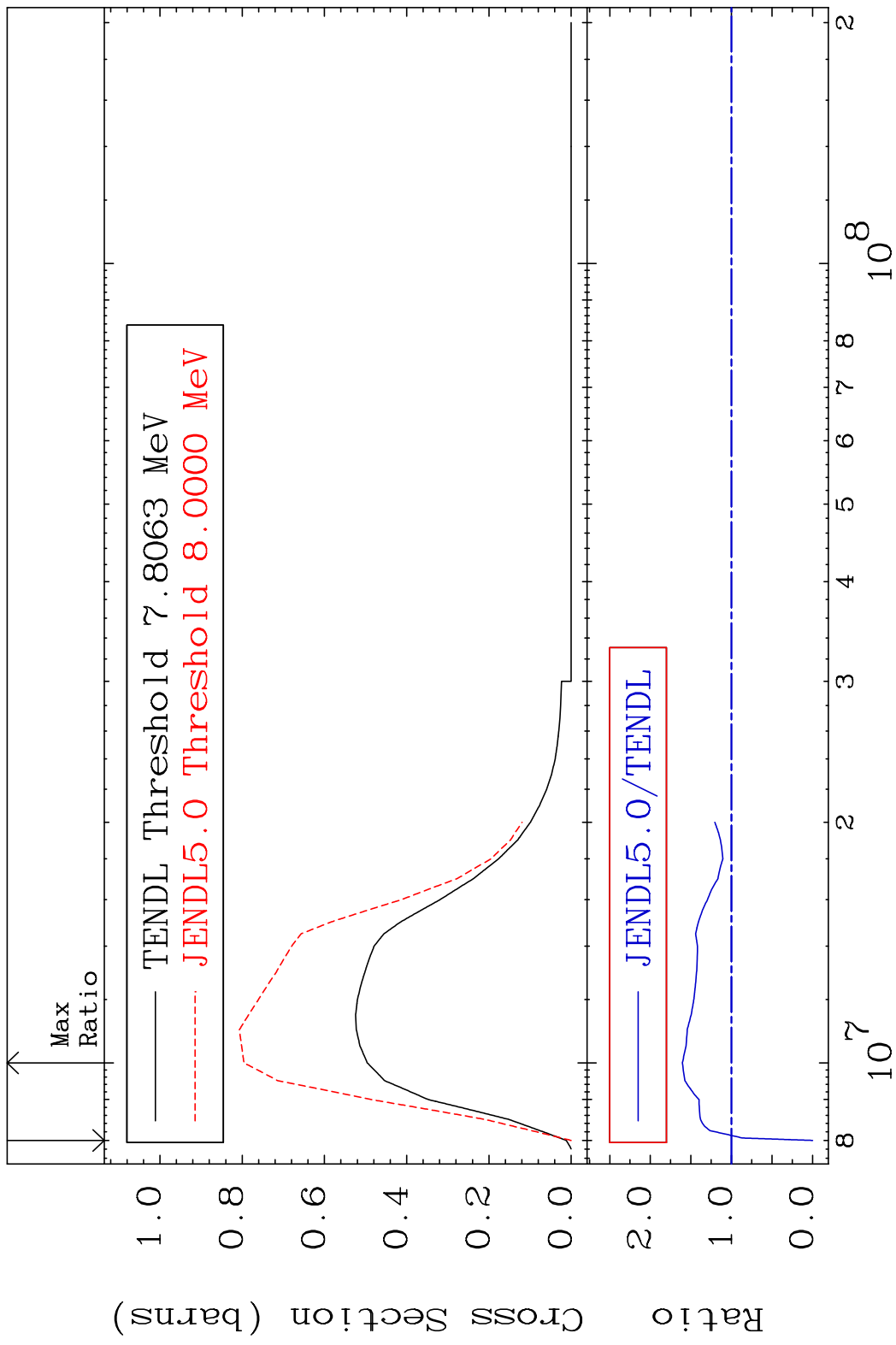
MAT 7243 Dpa disappearance (mt102 -120) 72-Hf-180  
 Cross Section -98.80 To 9999. %



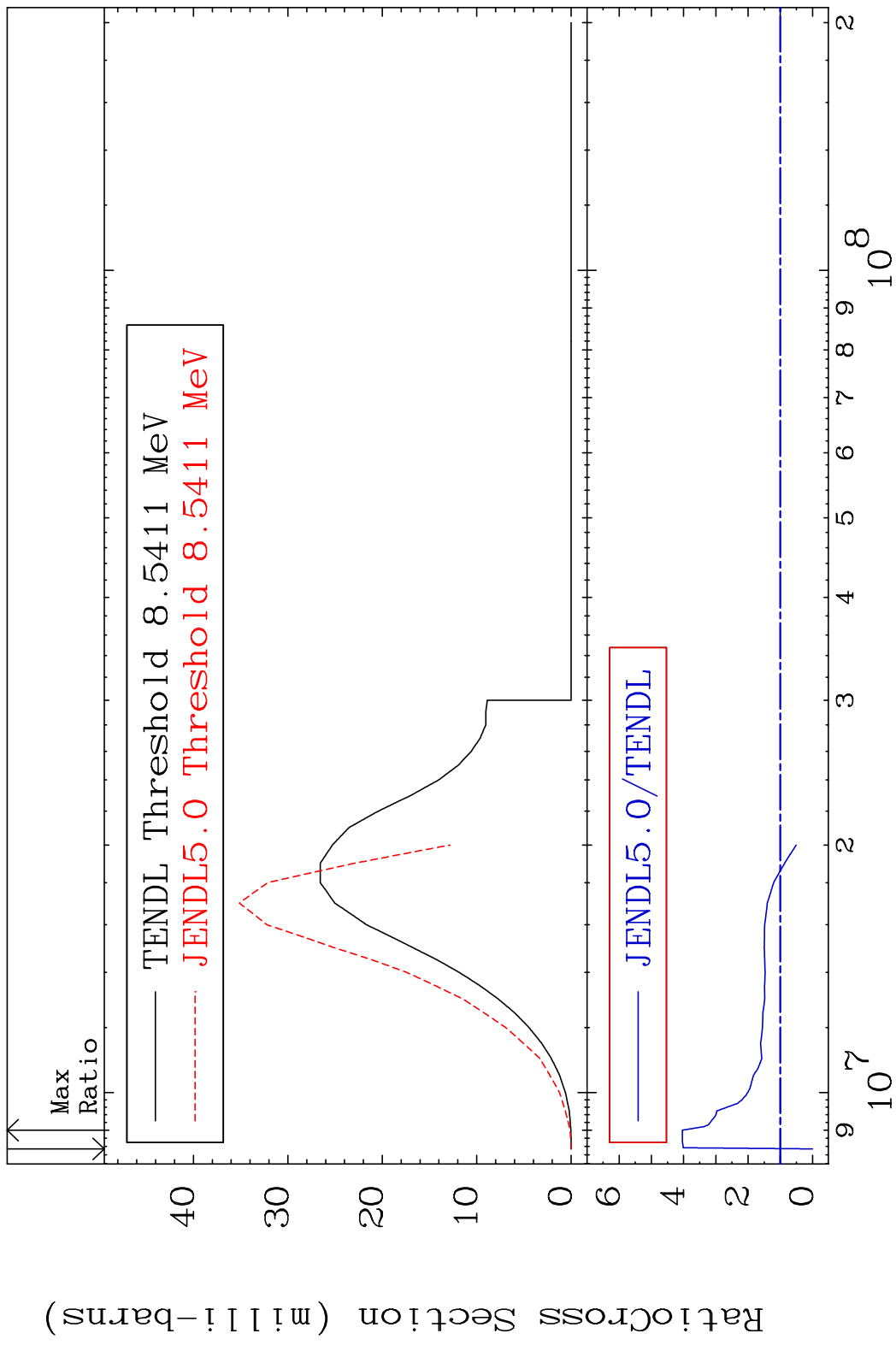
MAT 7243 (n,2n):72-Hf-179g 72-Hf-180  
 Radionuclide Production Cross Section Ratio 75.70 %



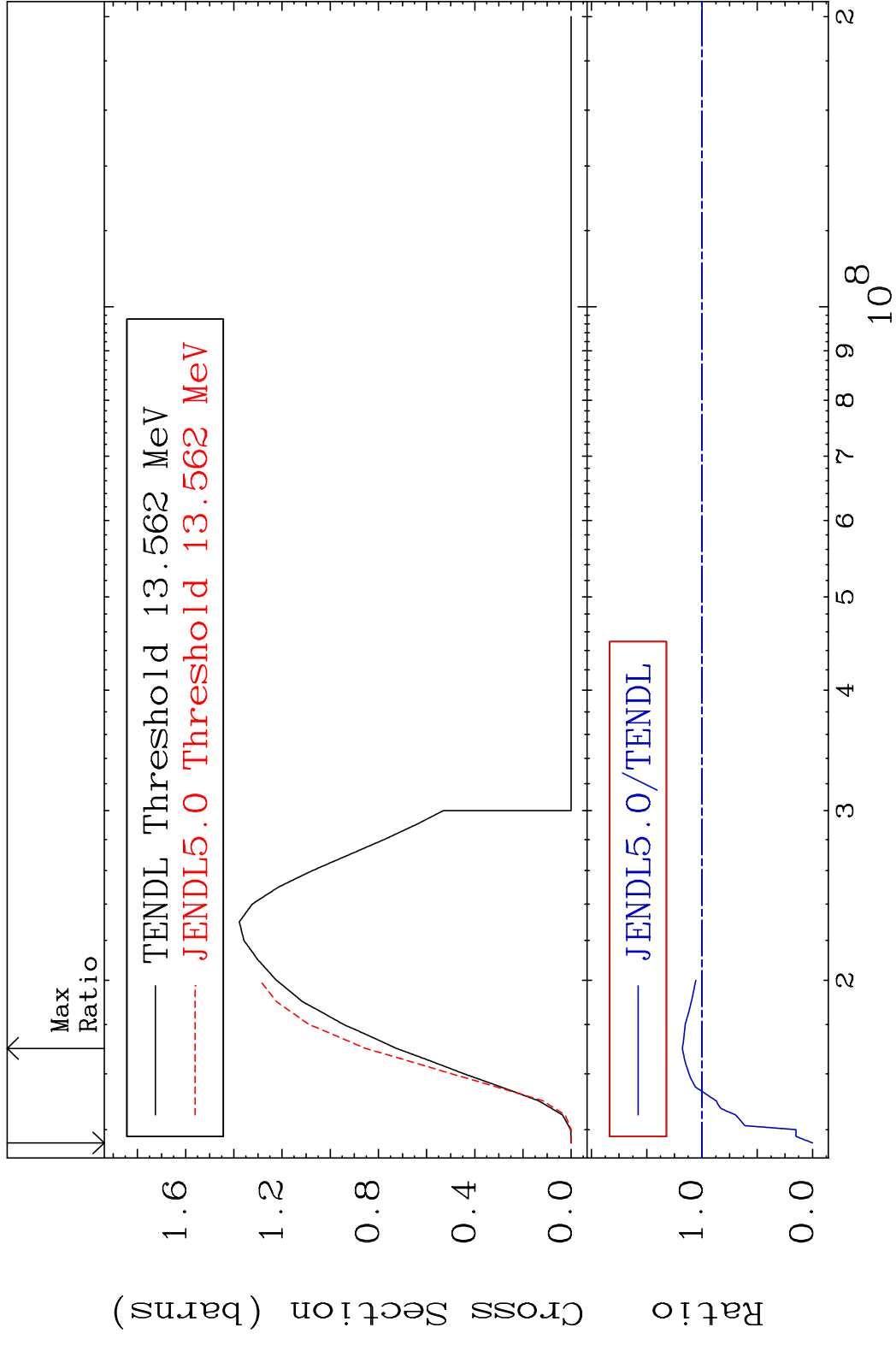
MAT 7243 (n,2n):72-Hf-179m5 72-Hf-180  
 Radionuclide Production Cross Section 60.51 %



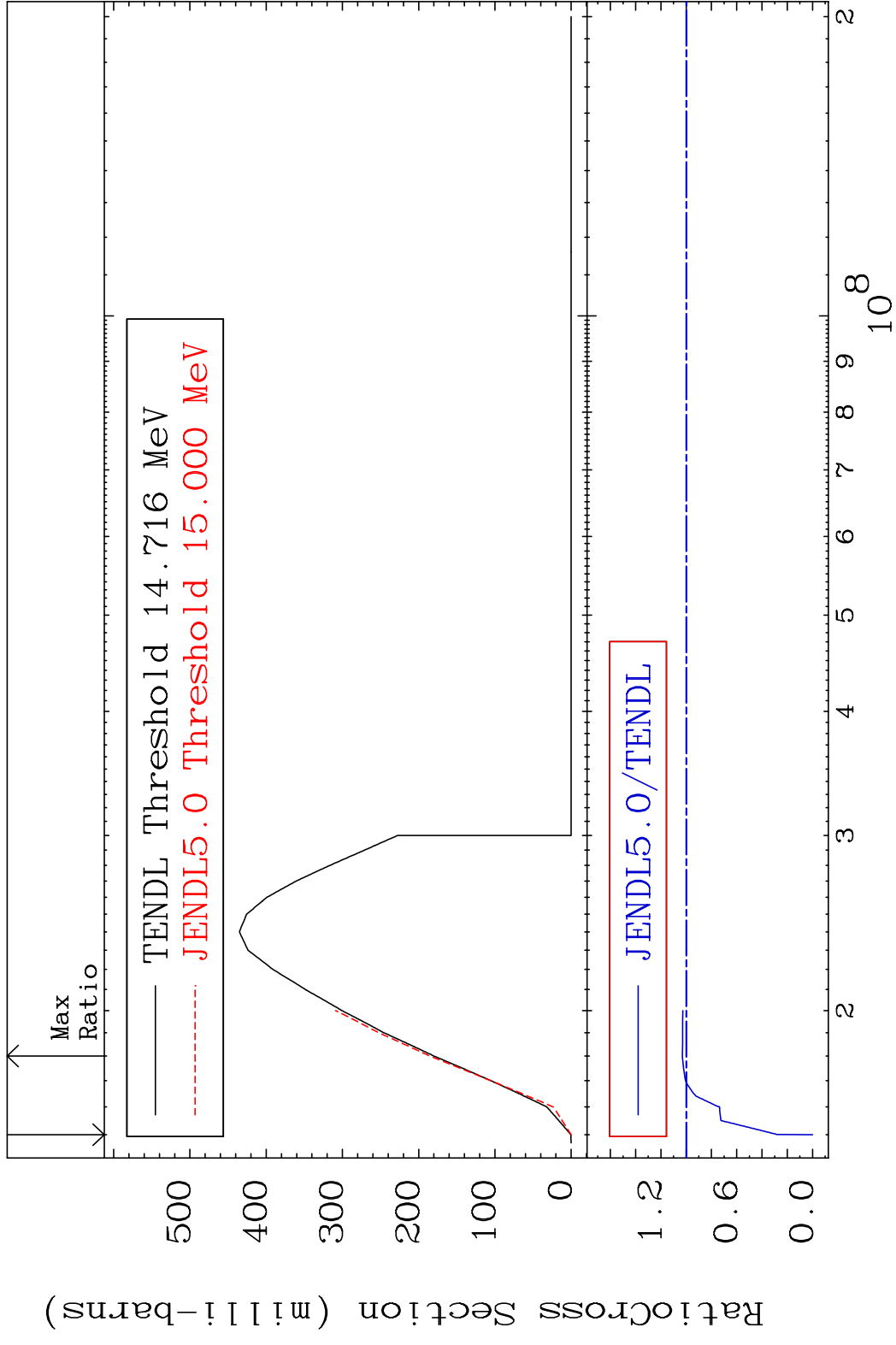
MAT 7243 (n,2n):72-Hf-179m46 72-Hf-180  
 Radionuclide Production Cross Section Ratio 303.9 %



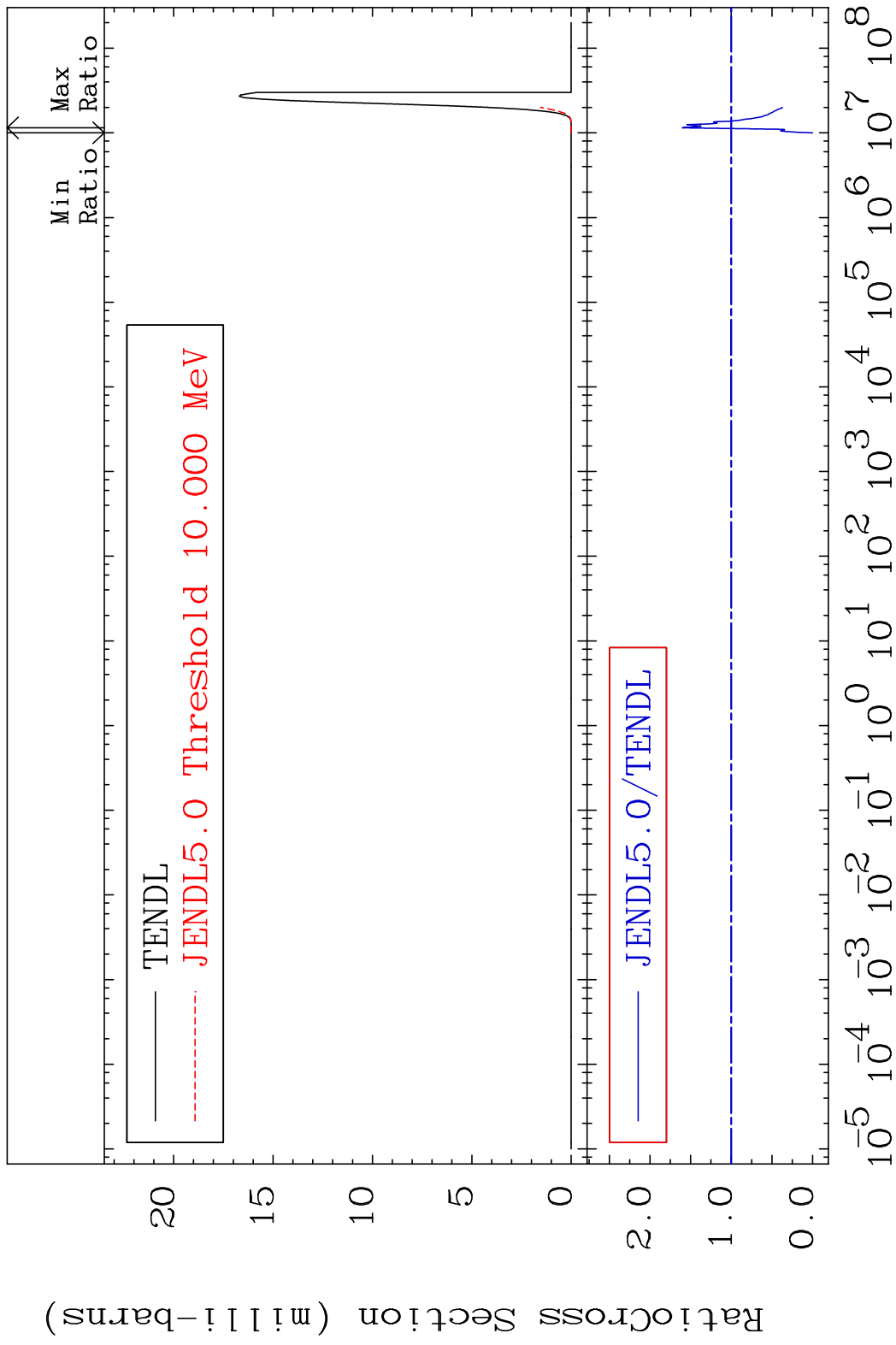
MAT 7243 (n,3n):72-Hf-178g 72-Hf-180  
 Radionuclide Production Cross Section 180.01 dpo 17.78 %



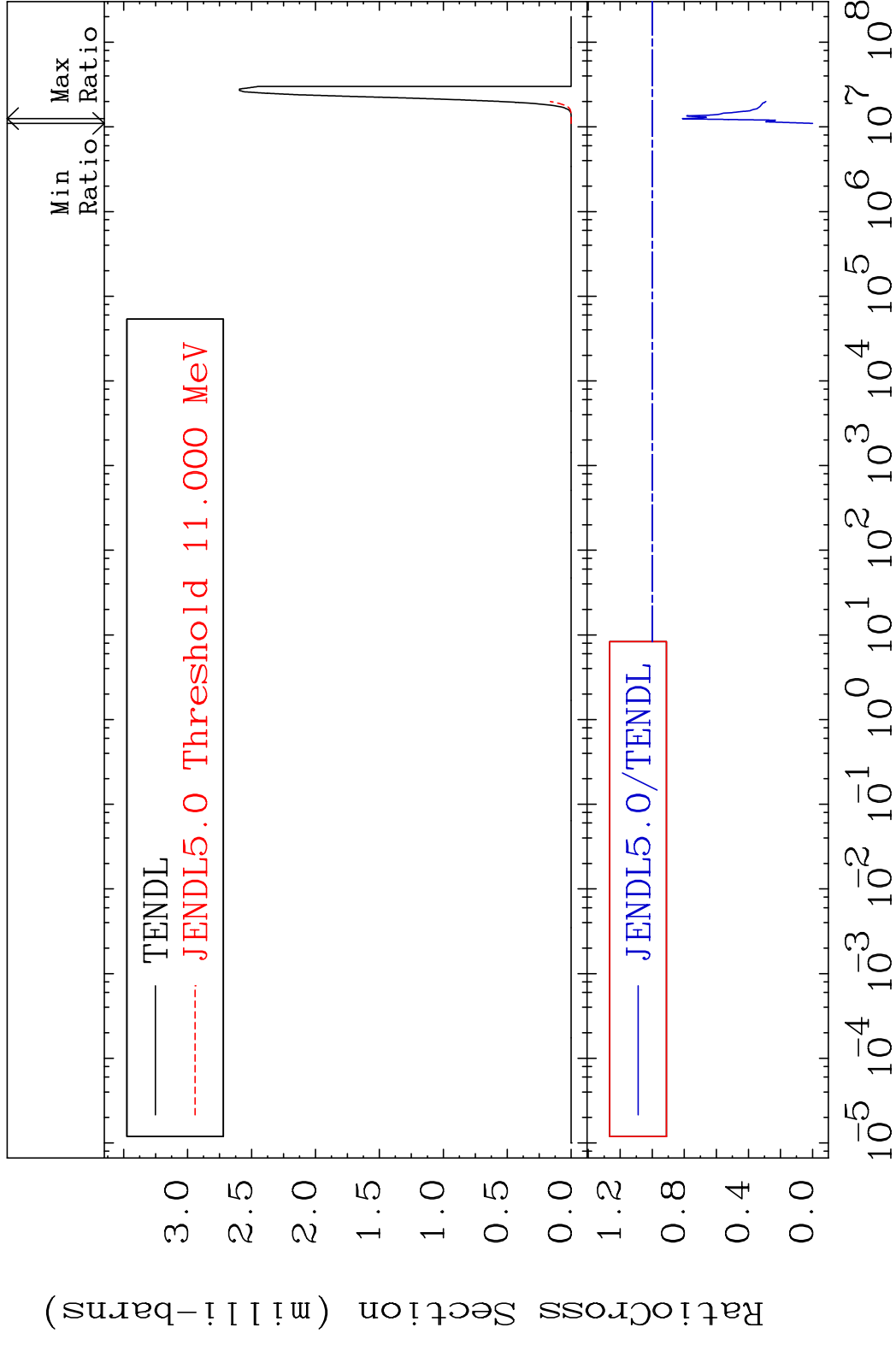
MAT 7243 (n, 3n) : 72-Hf-178m5 72-Hf-180  
 Radionuclide Production Cross Section Ratio 3.036 %



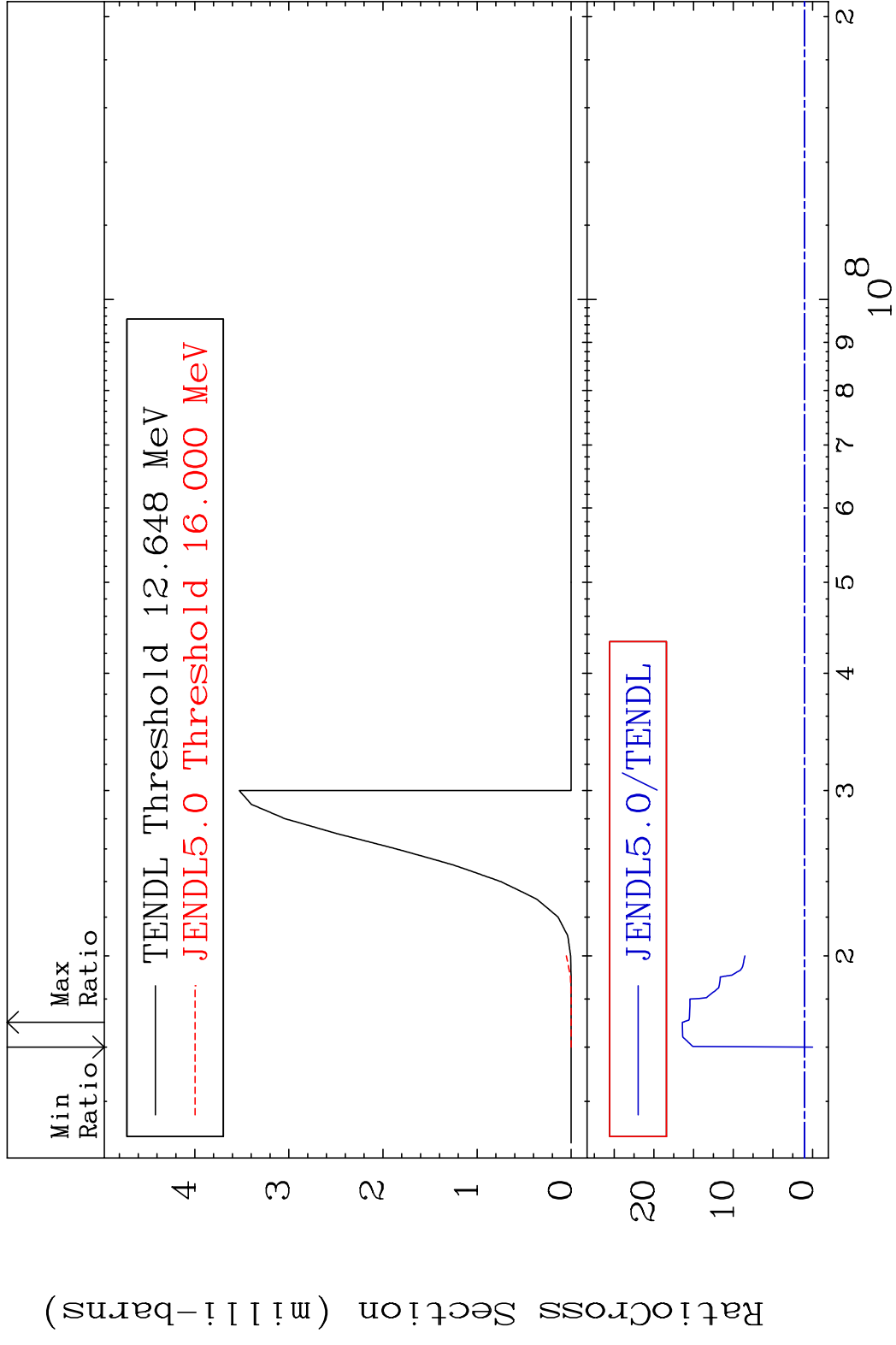
MAT 7243 (n, n')  $\alpha$ :70-Yb-176g 72-Hf-180  
 Radionuclide Production Cross Section 180.01 dth 60.24 %

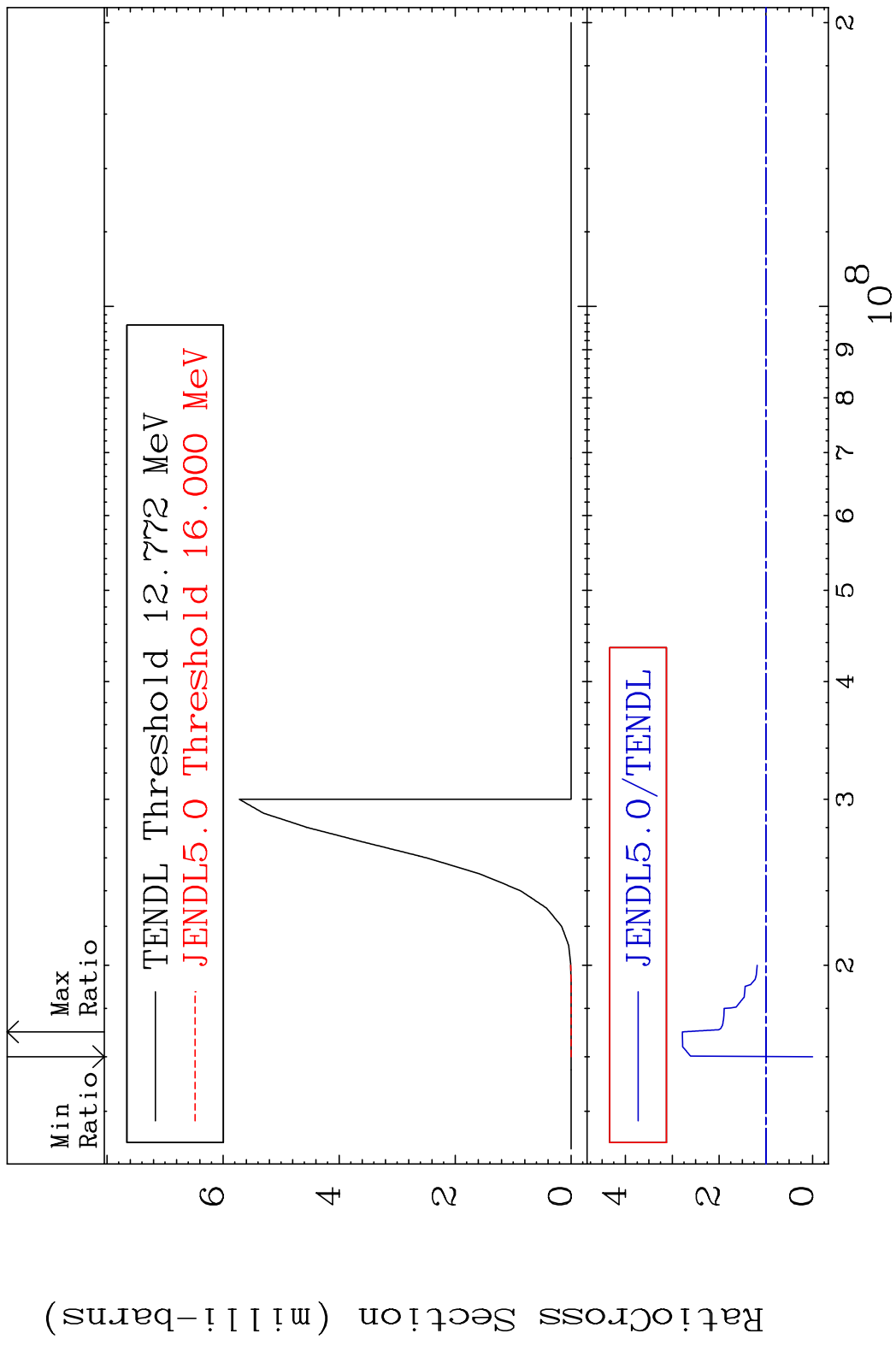


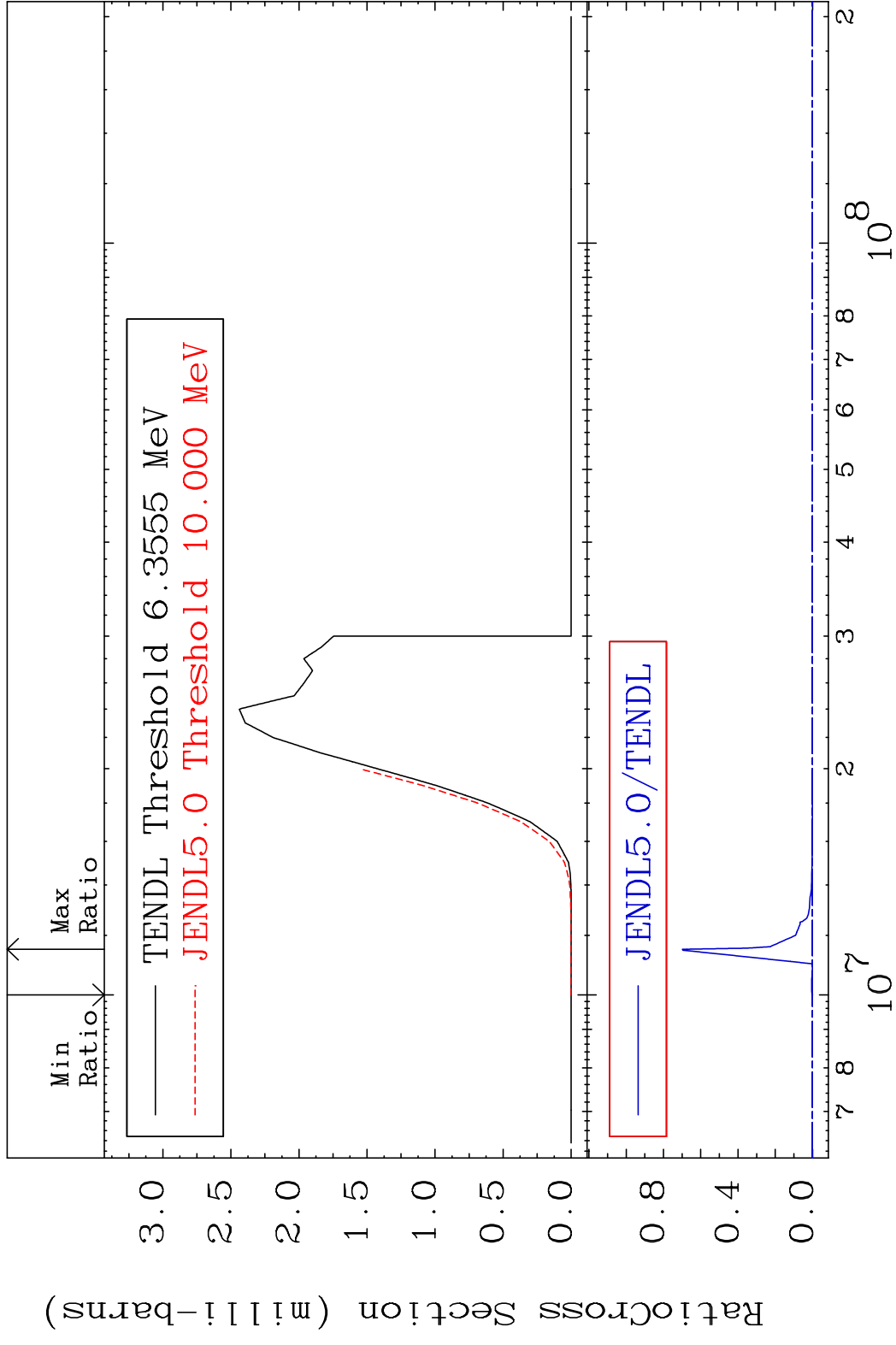
MAT 7243 (n, n')  $\alpha$ :70-Yb-176m5 72-Hf-180  
 Radionuclide Production Cross Section Ratio -18.78%



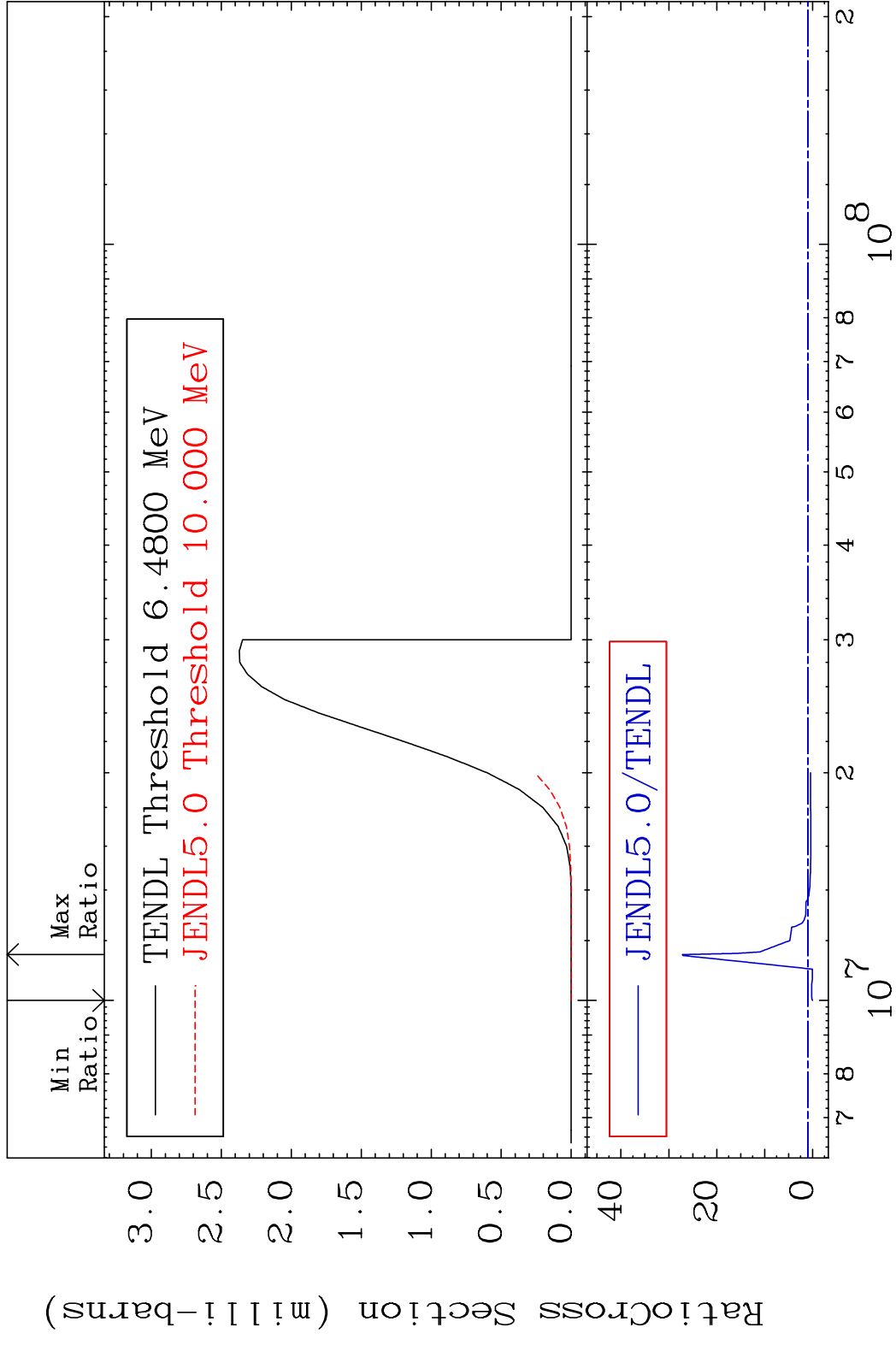
MAT 7243 (n, n') d:71-Lu-178g 72-Hf-180  
 Radionuclide Production Cross Section 1541. %





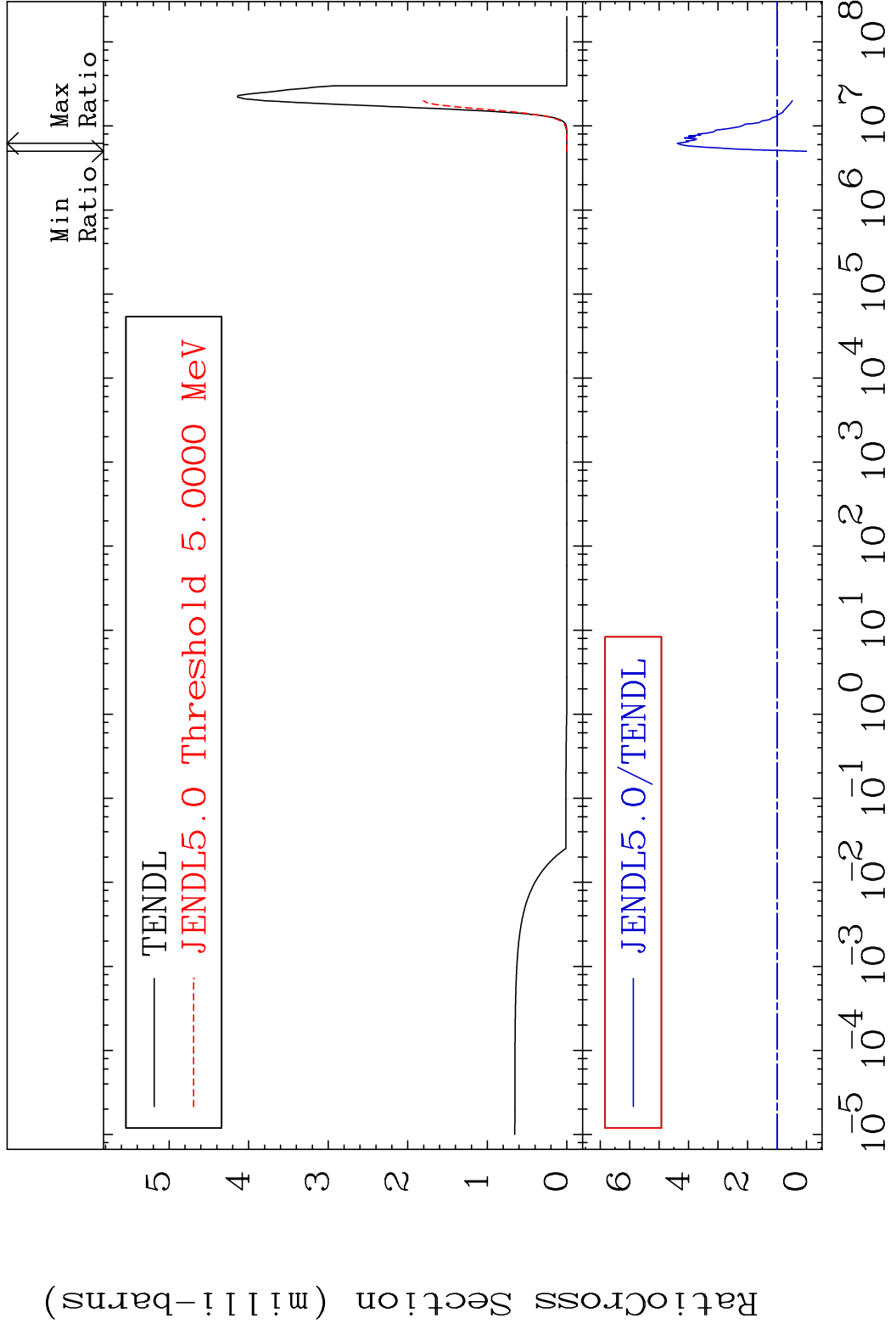


MAT 7243 (n, t):71-Lu-178m3 72-Hf-180  
 Radionuclide Production Cross Section 180.01 dth 2618. %

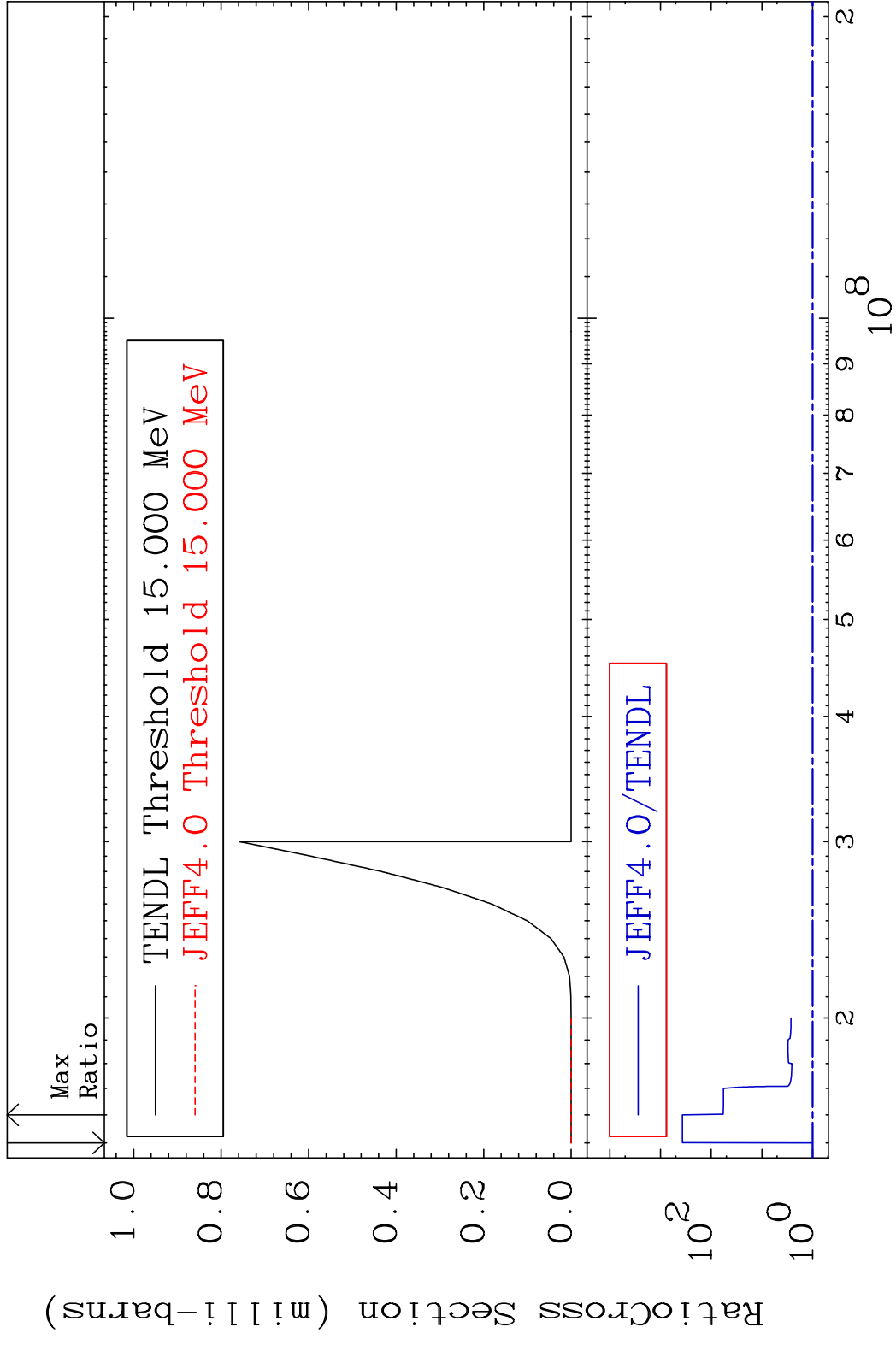


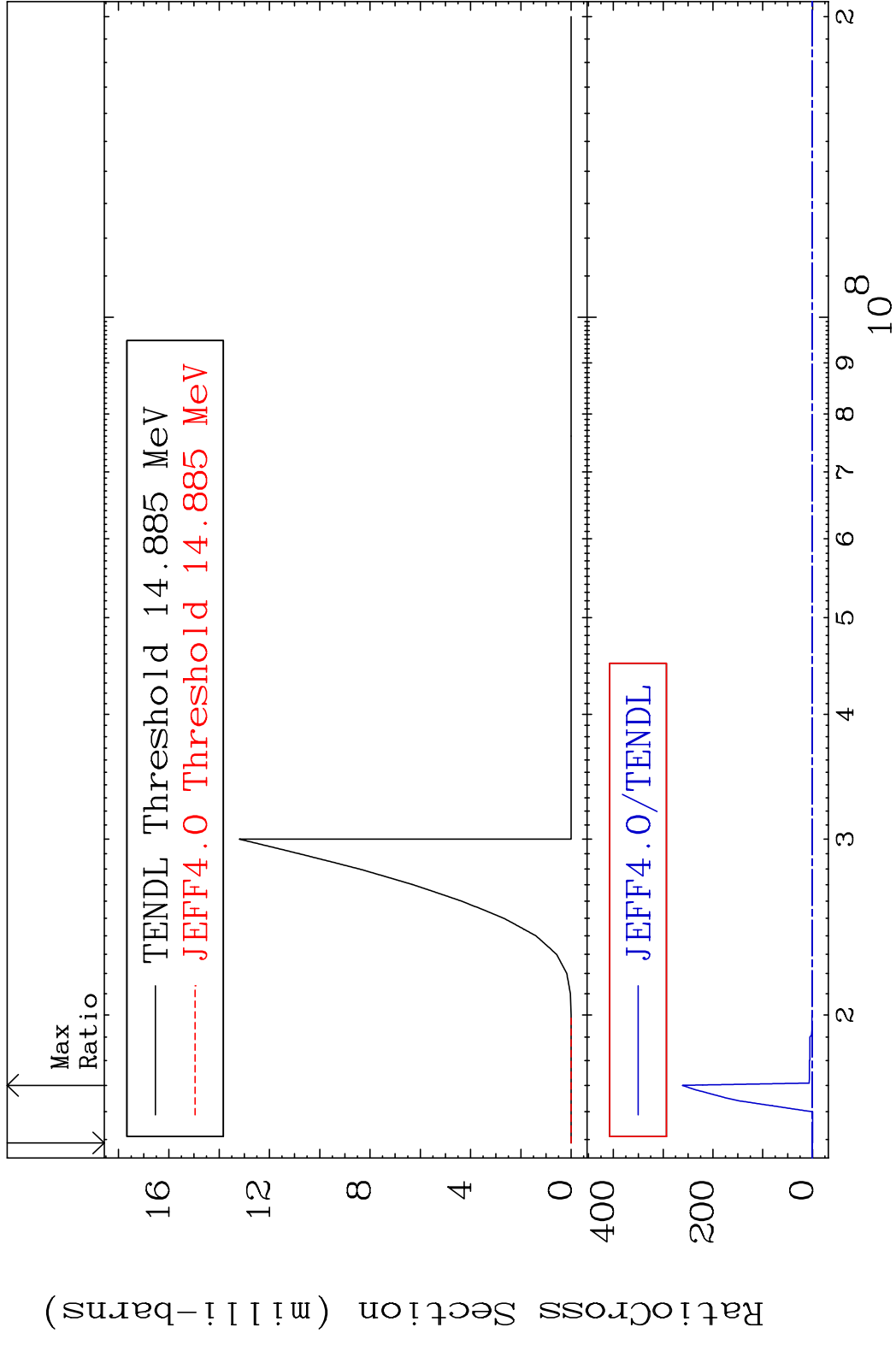
73 Incident Energy (eV) 72-Hf-180

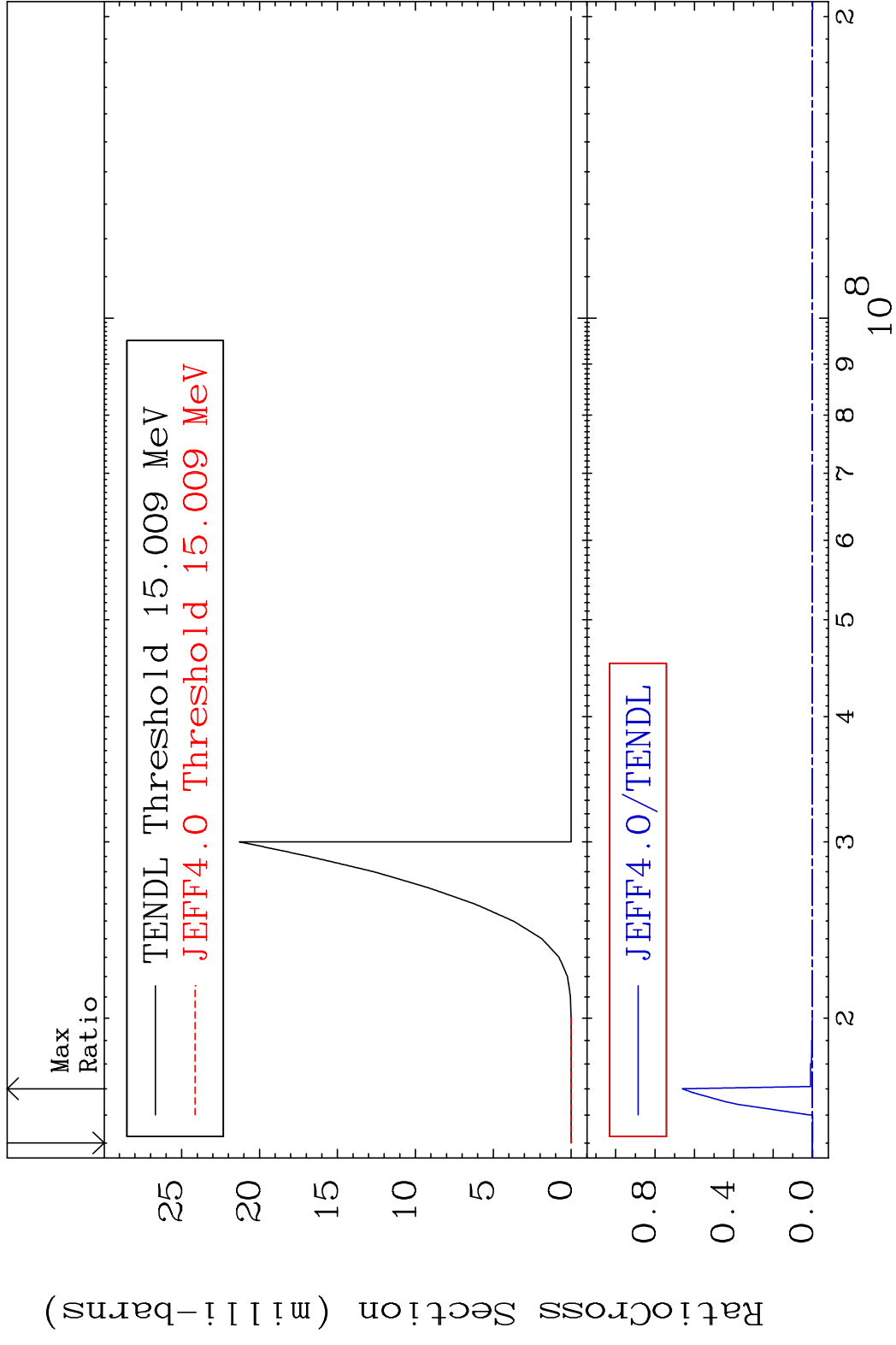
MAT 7243 (n,α):70-Yb-177g 72-Hf-180  
 Radionuclide Production Cross Section 180.0 mb 338.7 %



MAT 7243 (n, n') t:71-Lu-177m29 72-Hf-180  
 Radionuclide Production Cross Section, %





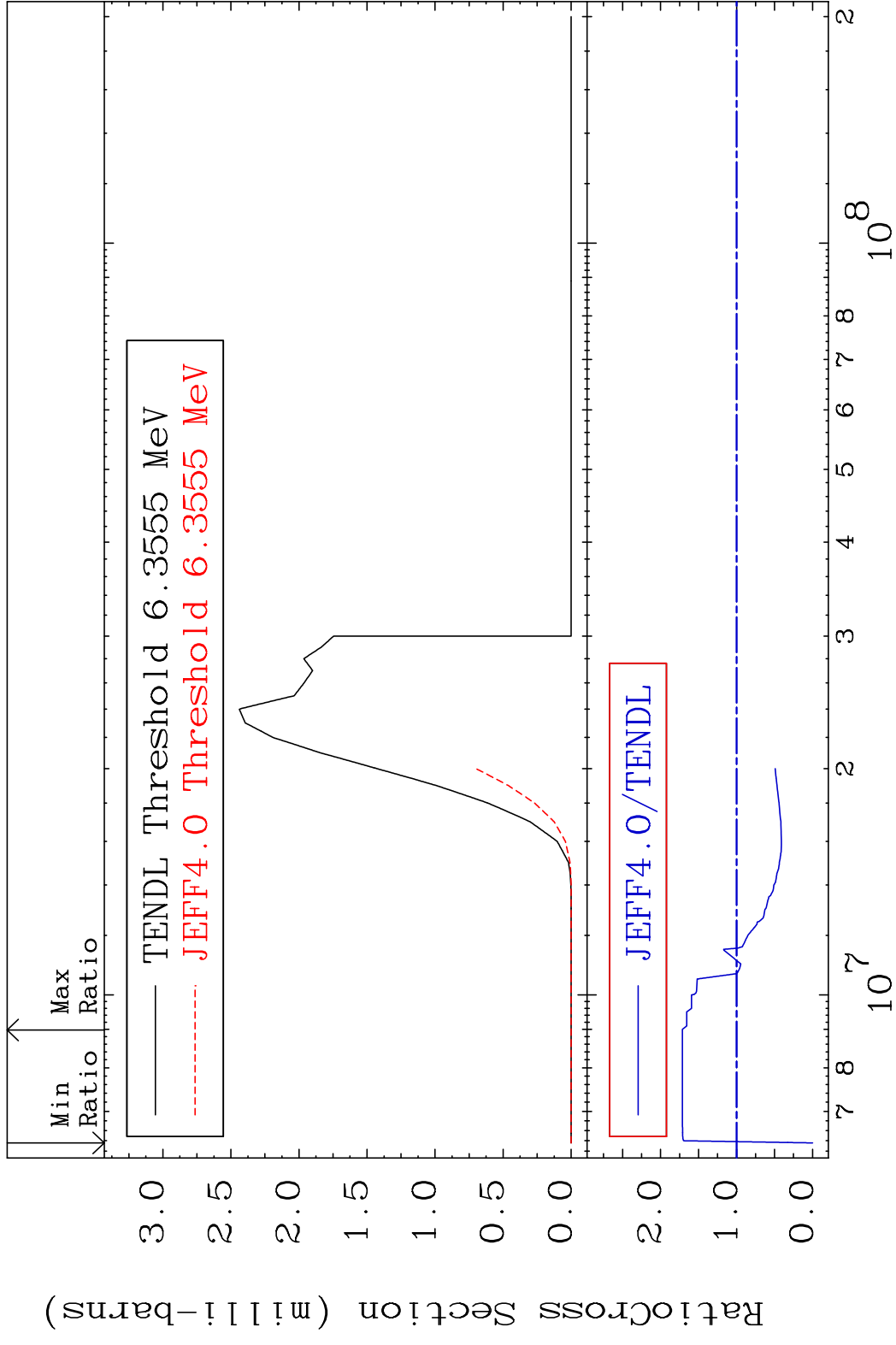


MAT 7243

(n, t): 71-Lu-178g

72-Hf-180

Radionuclide Production Cross Section (mb) 71.31 %



78

Incident Energy (eV)

72-Hf-180

MAT 7243 (n, t): 71-Lu-178m3 72-Hf-180  
 Radionuclide Production Cross Section Ratio 43.44 %

