

Program Complot
(Version 2021-1)

by

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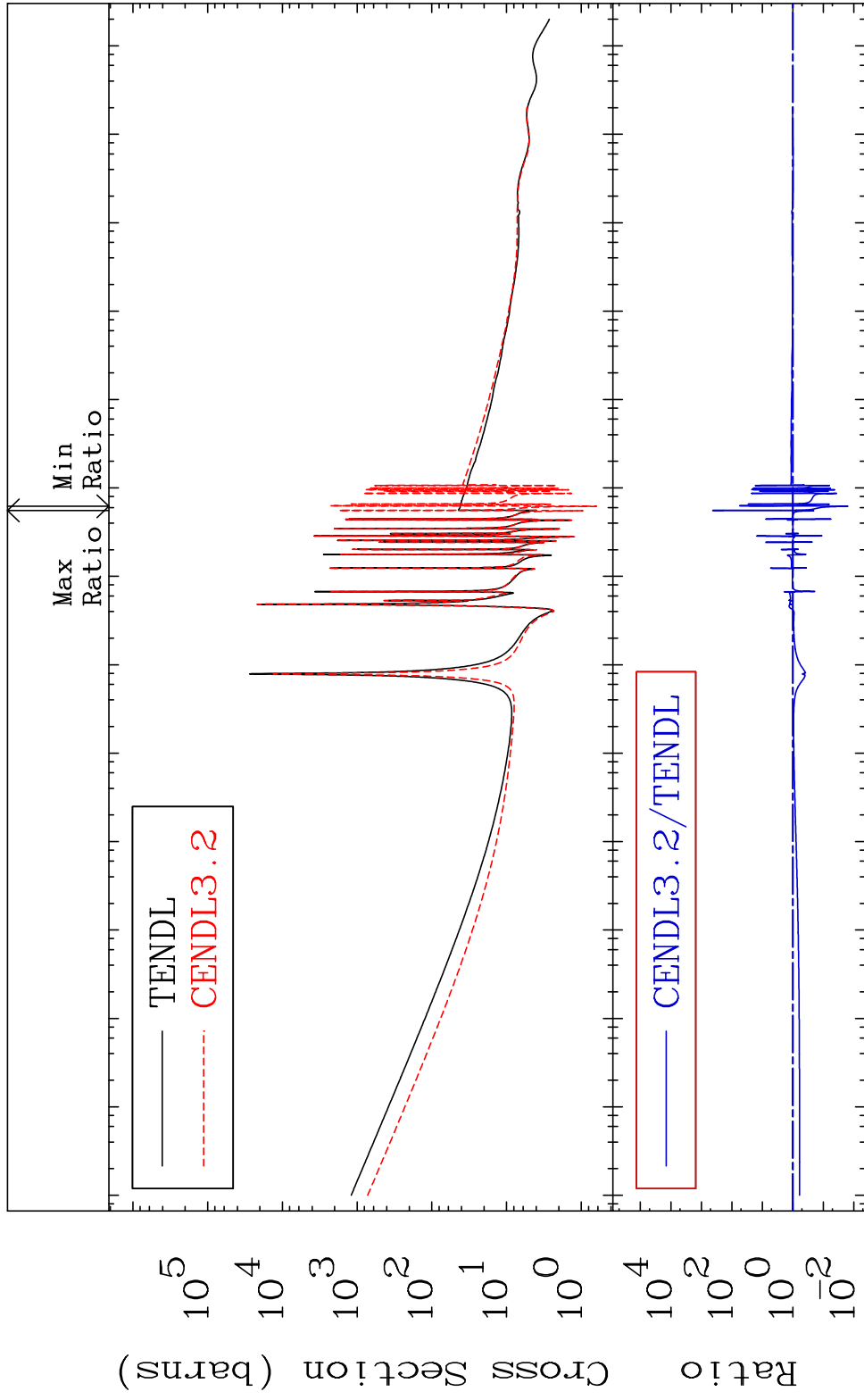
Press Mouse Button to Start

MAT 7231

Total

72-Hf-176

Cross Section -98.49 To 9999. %



1

Incident Energy (eV)

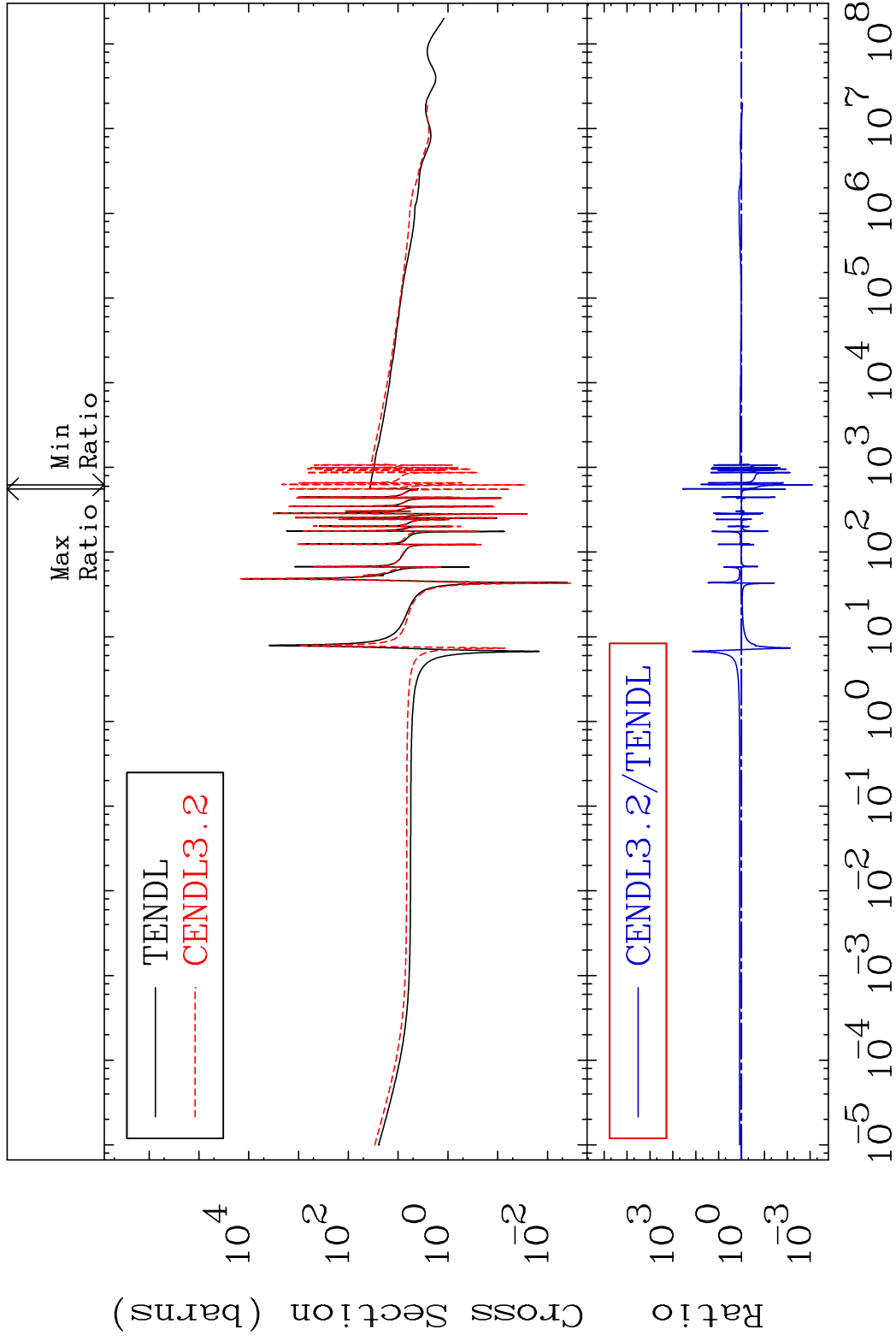
72-Hf-176

MAT 7231

Elastic

72-Hf-176

Cross Section -99.92 To 9999. %

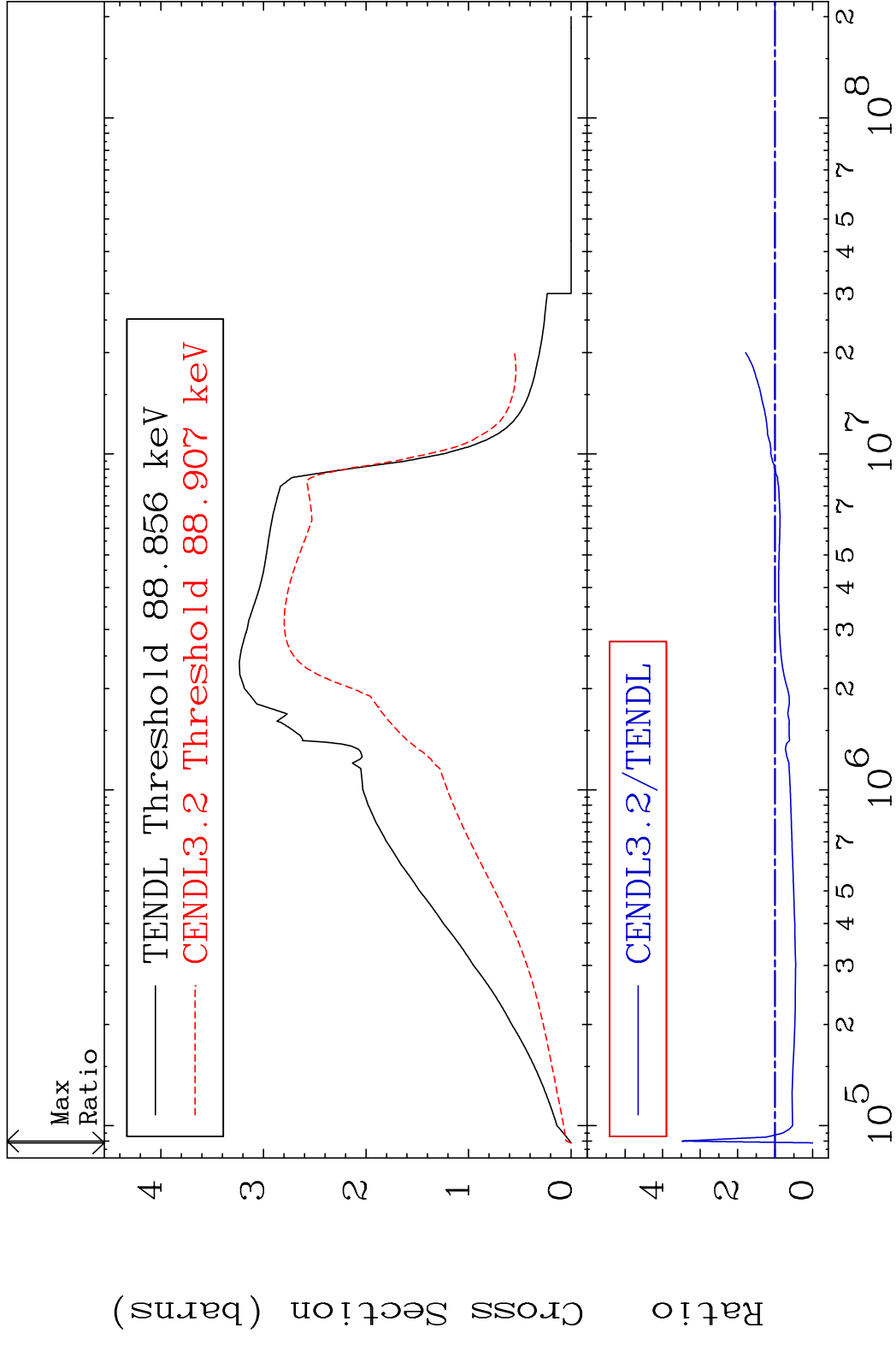


2

Incident Energy (eV)

72-Hf-176

MAT 7231 Inelastic 72-Hf-176
 Cross Section -100.0 To 247.2 %



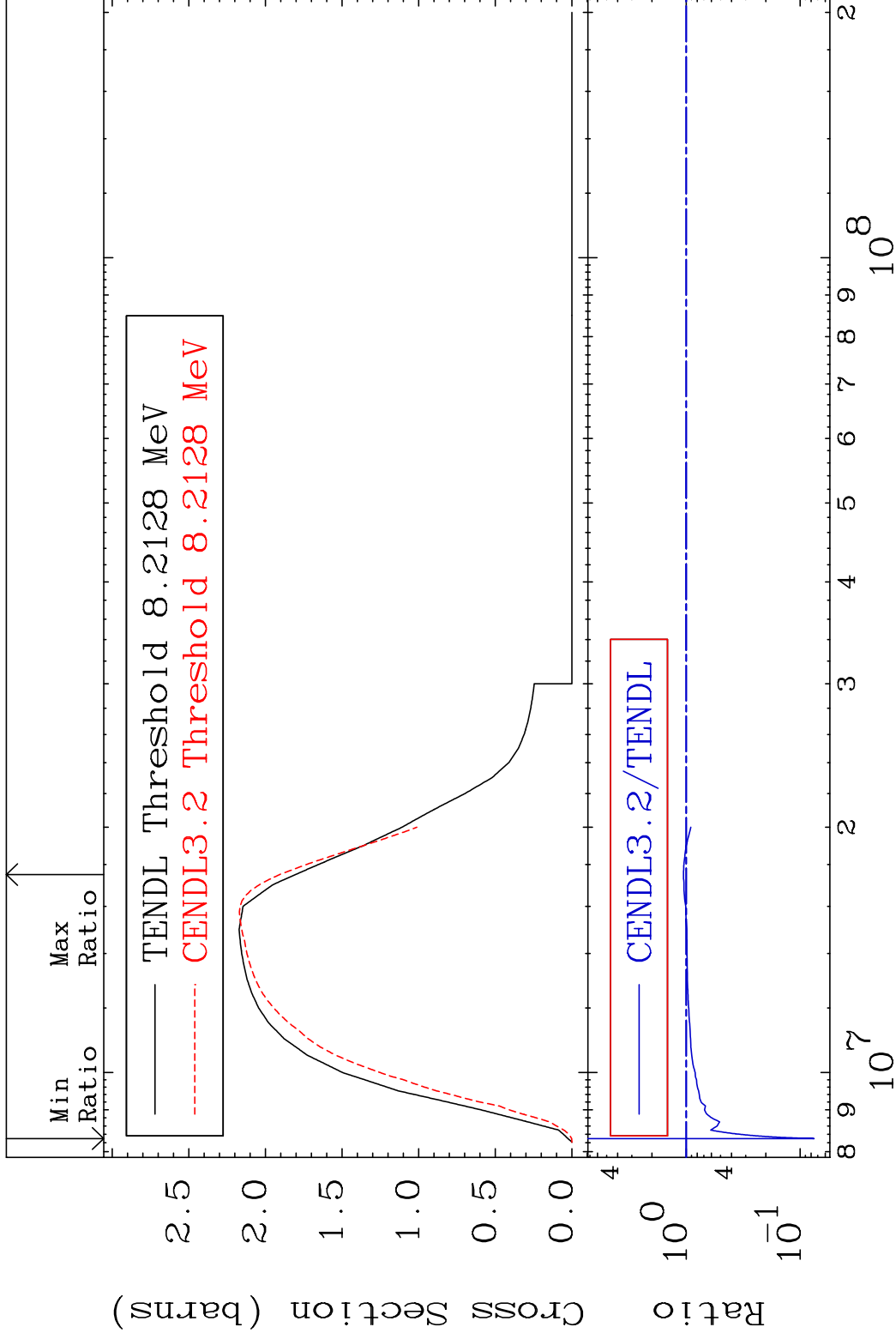
3 Incident Energy (eV) 72-Hf-176

MAT 7231

(n,2n)

72-Hf-176

Cross Section -92.45 To 5.691 %



4

Incident Energy (eV)

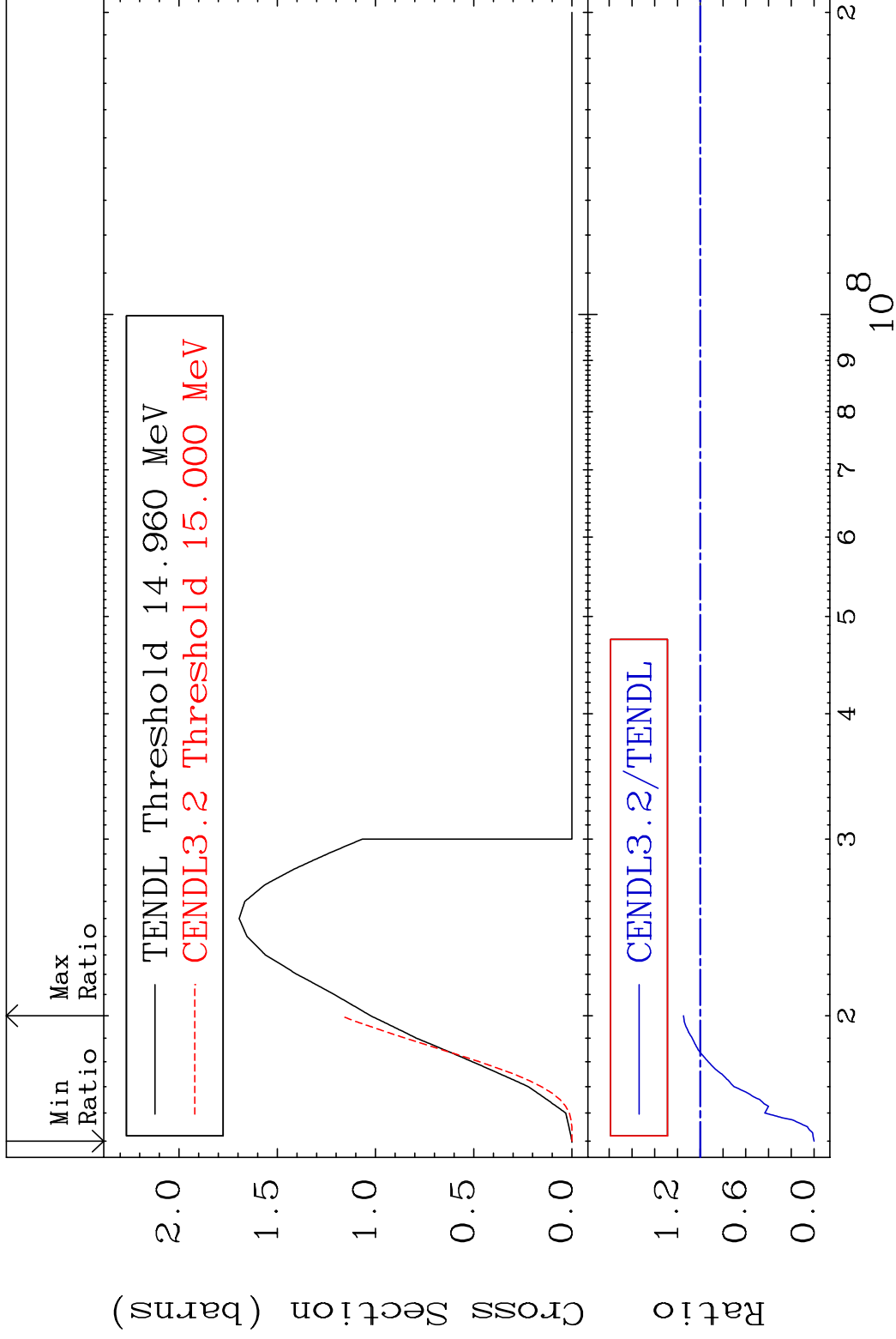
72-Hf-176

MAT 7231

(n,3n)

72-Hf-176

Cross Section -100.0 To 14.77 %



5

Incident Energy (eV)

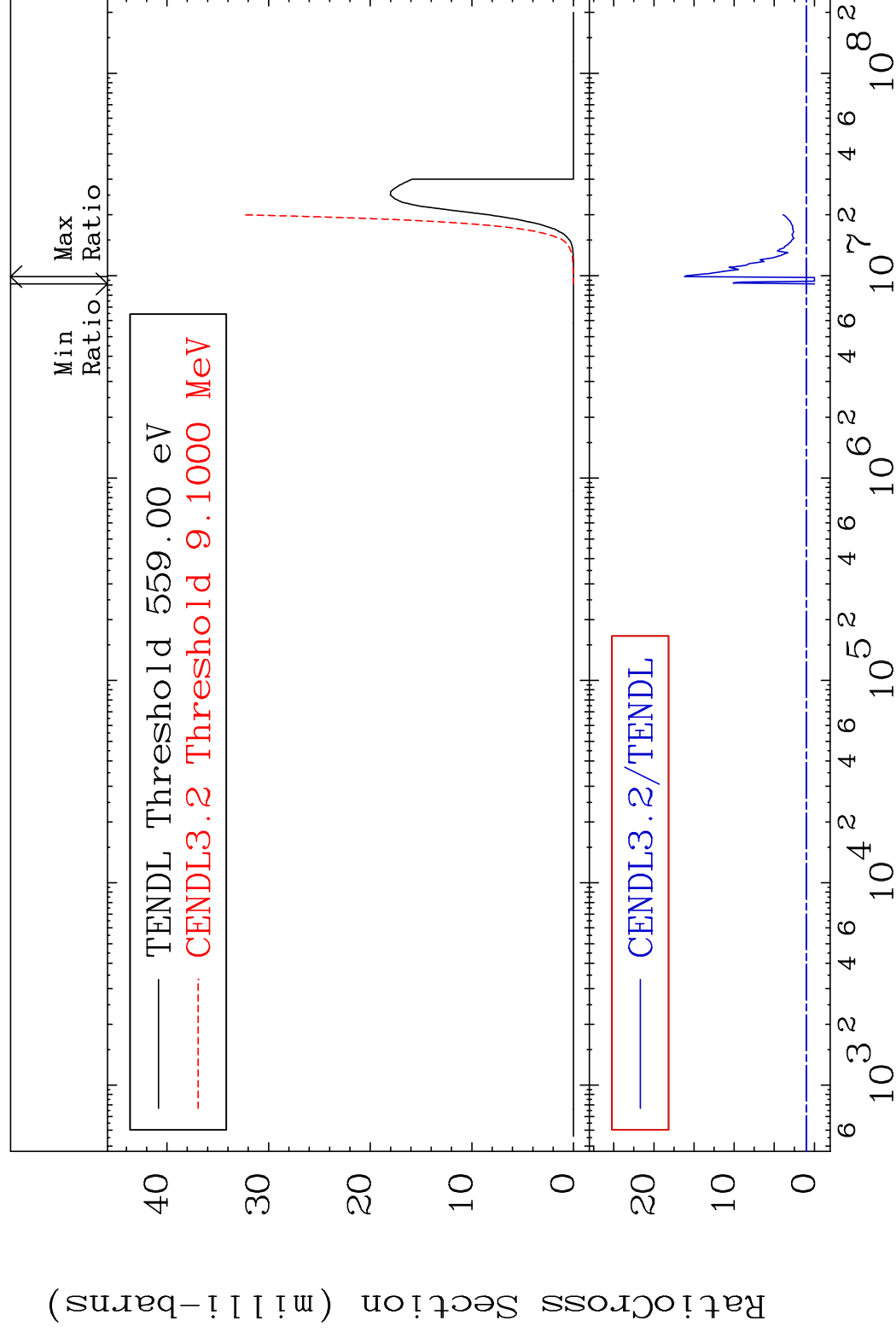
72-Hf-176

MAT 7231

(n, n') α

72-Hf-176

Cross Section -100.0 To 1519. %



6

Incident Energy (eV)

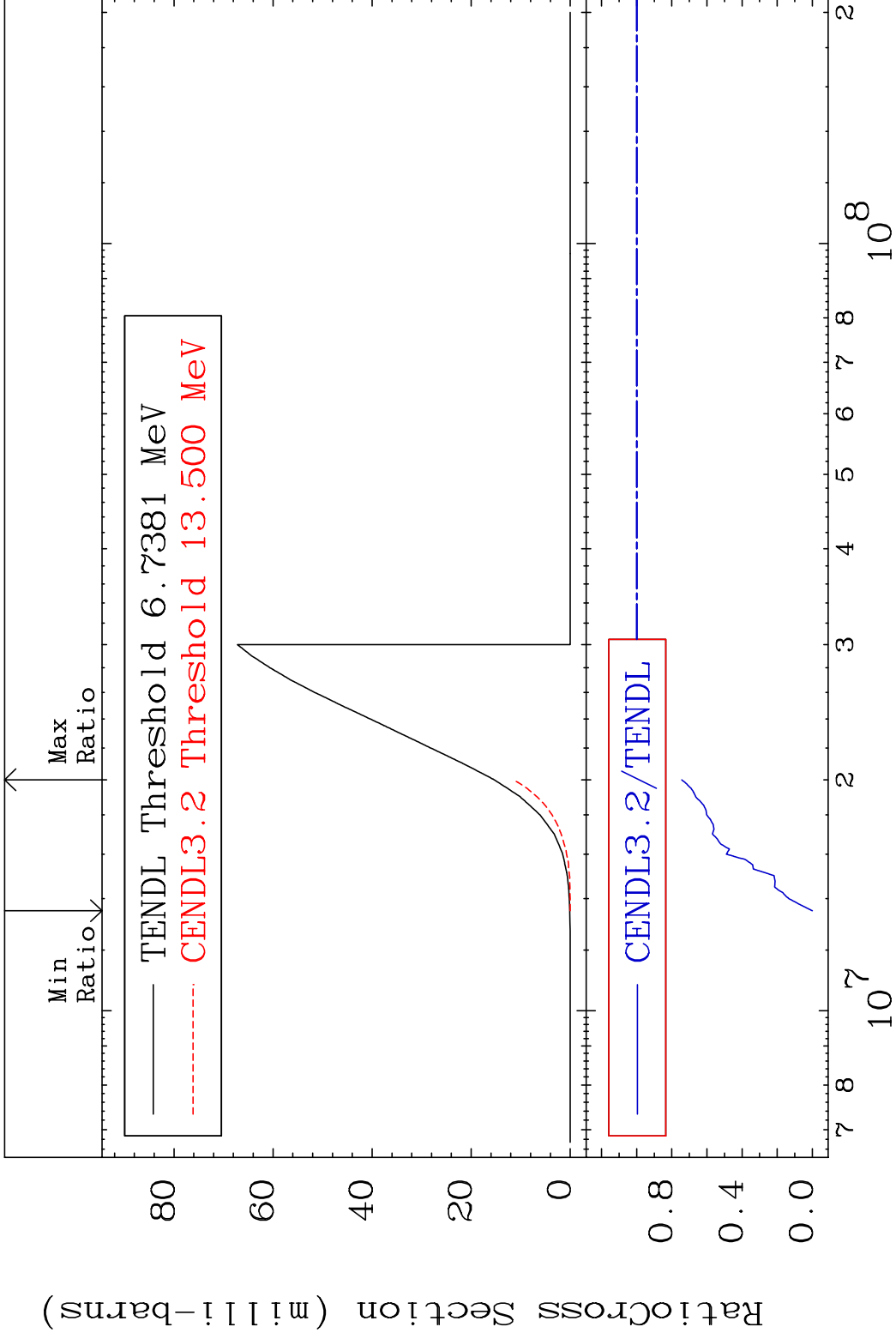
72-Hf-176

MAT 7231

(n, n') p

72-Hf-176

Cross Section -100.0 To -25.67%

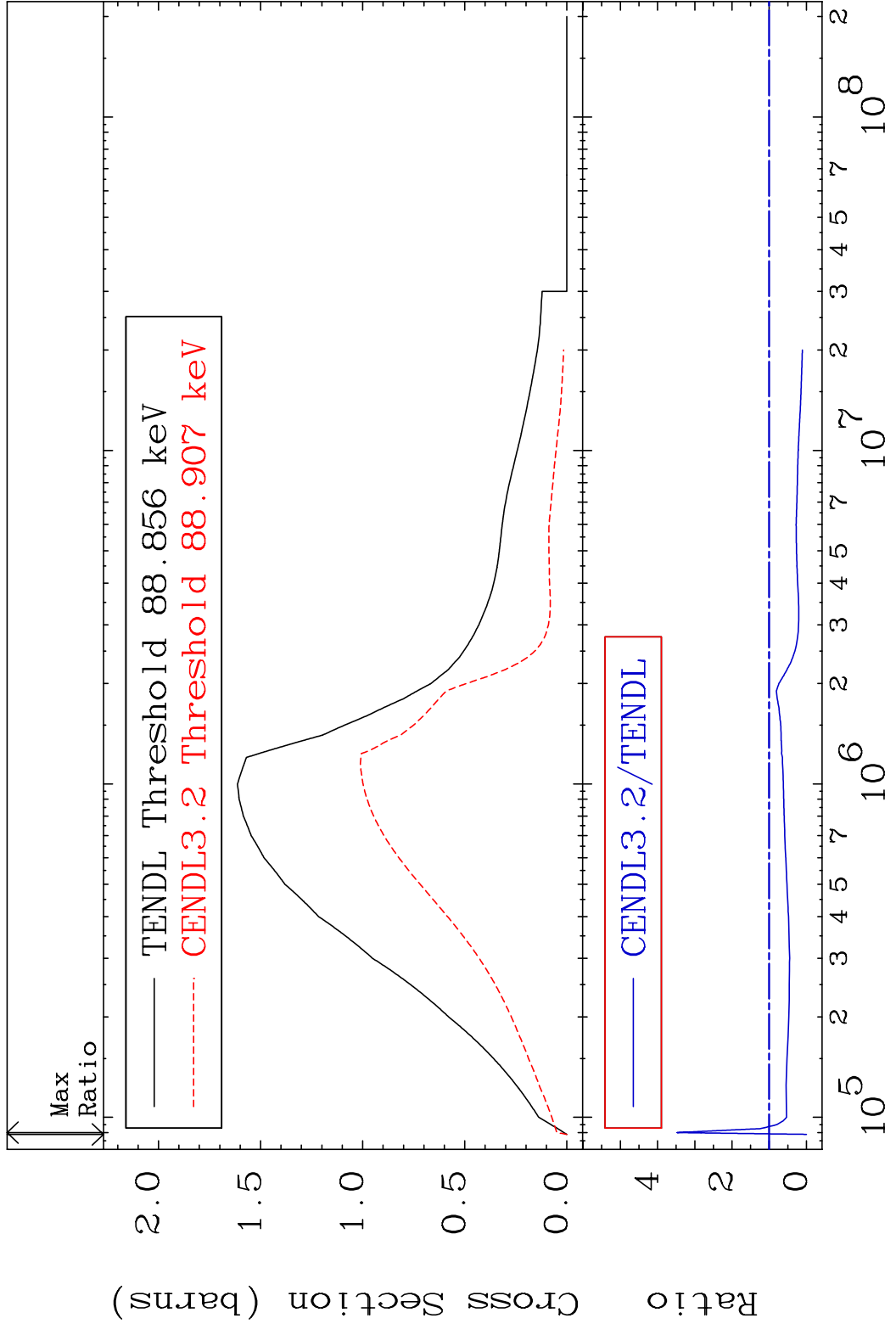


7

Incident Energy (eV)

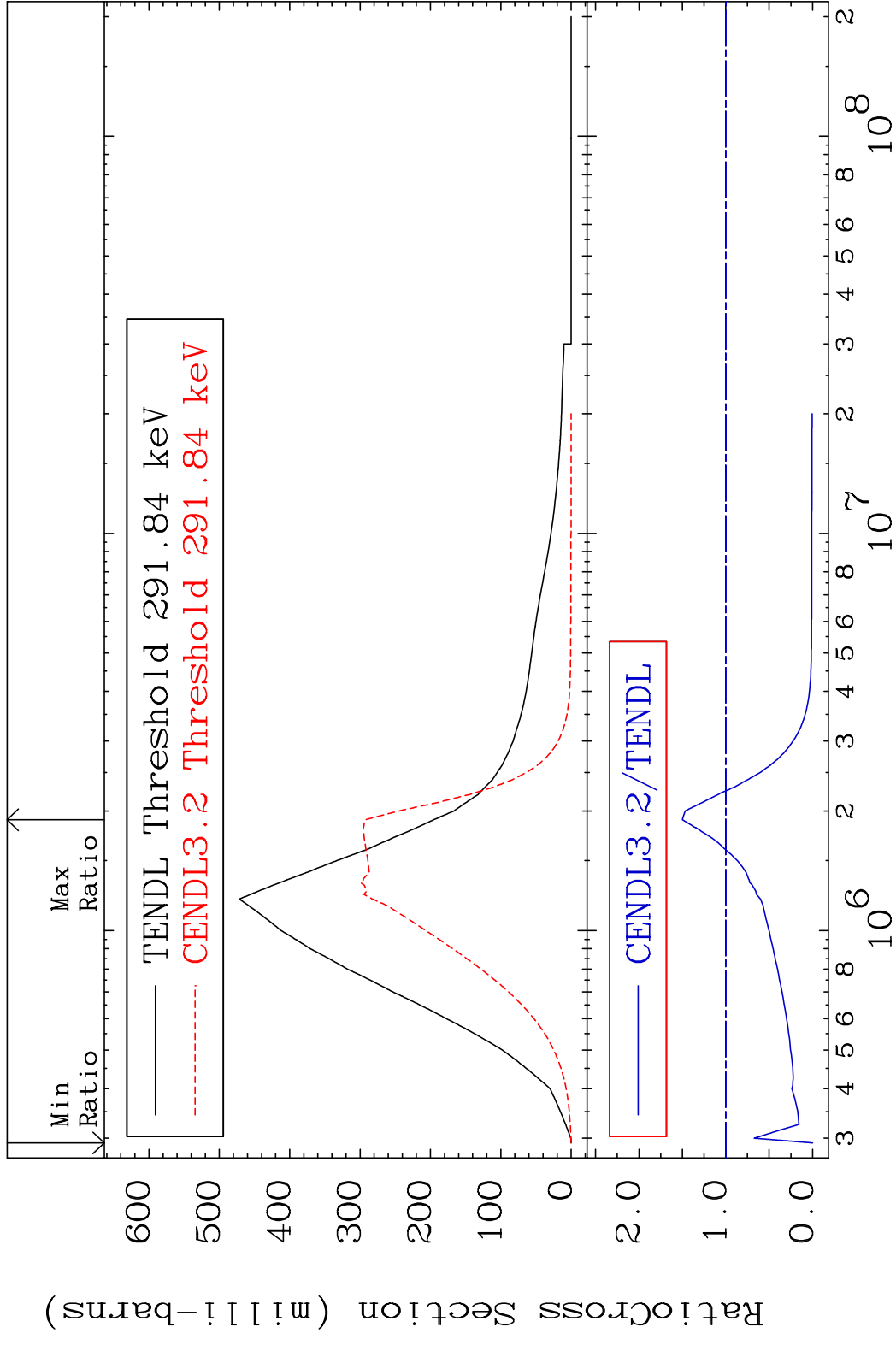
72-Hf-176

MAT 7231 MT= 51 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 247.2 %

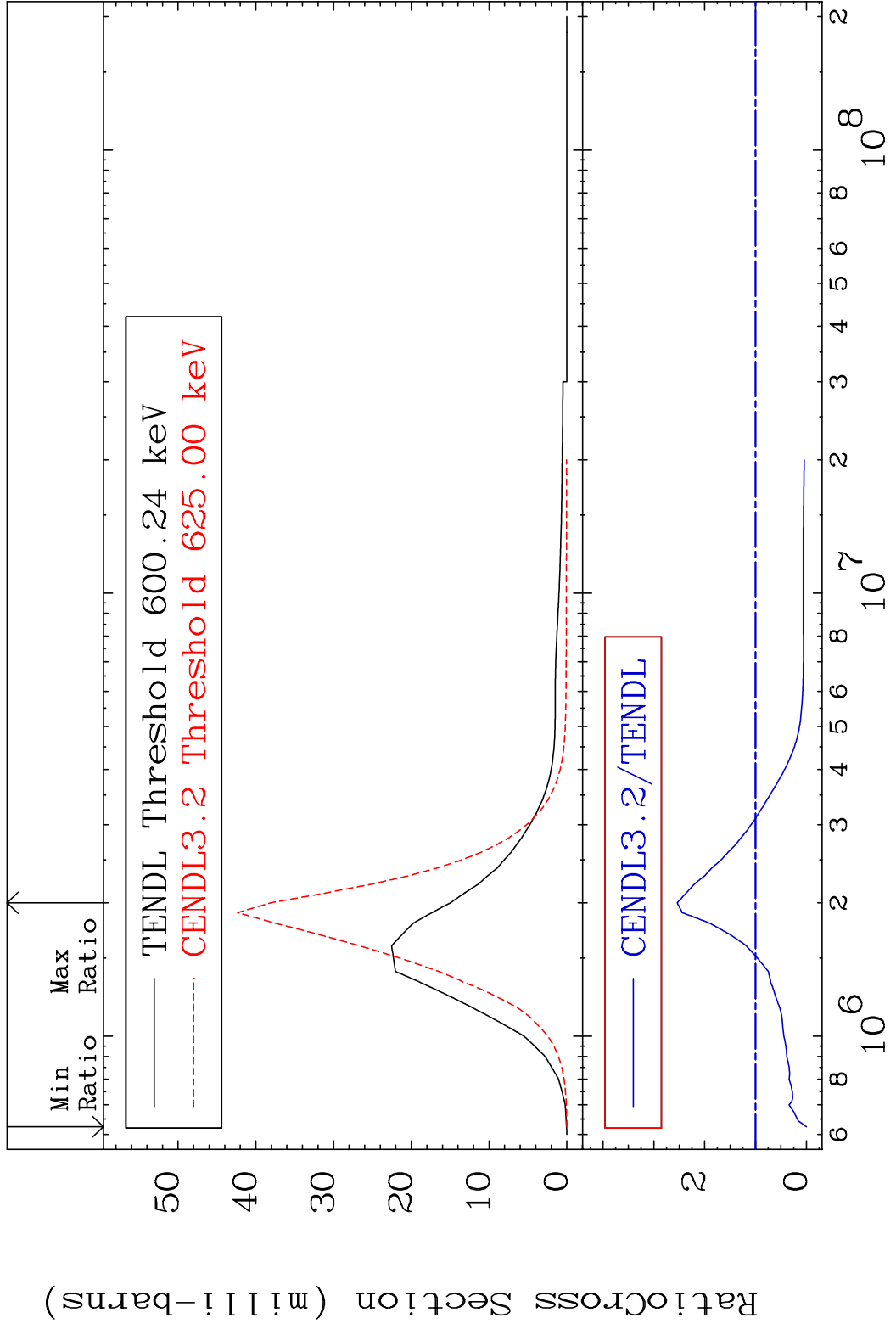


8 Incident Energy (eV) 72-Hf-176

MAT 7231 MT= 52 (n,n') Level 72-Hf-176
 Cross Section -100.0 To 50.00 %

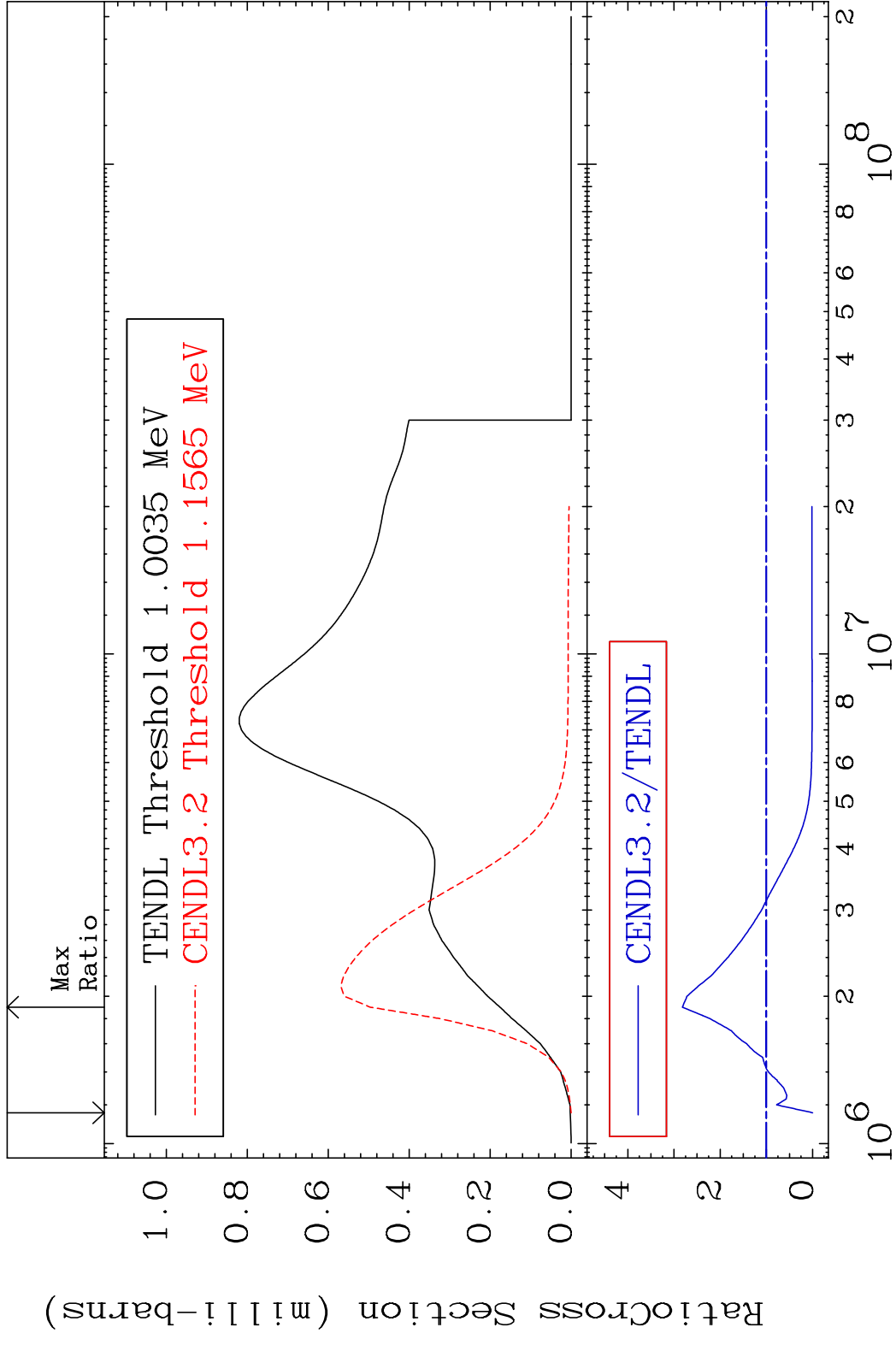


MAT 7231 MT= 53 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 154.0 %

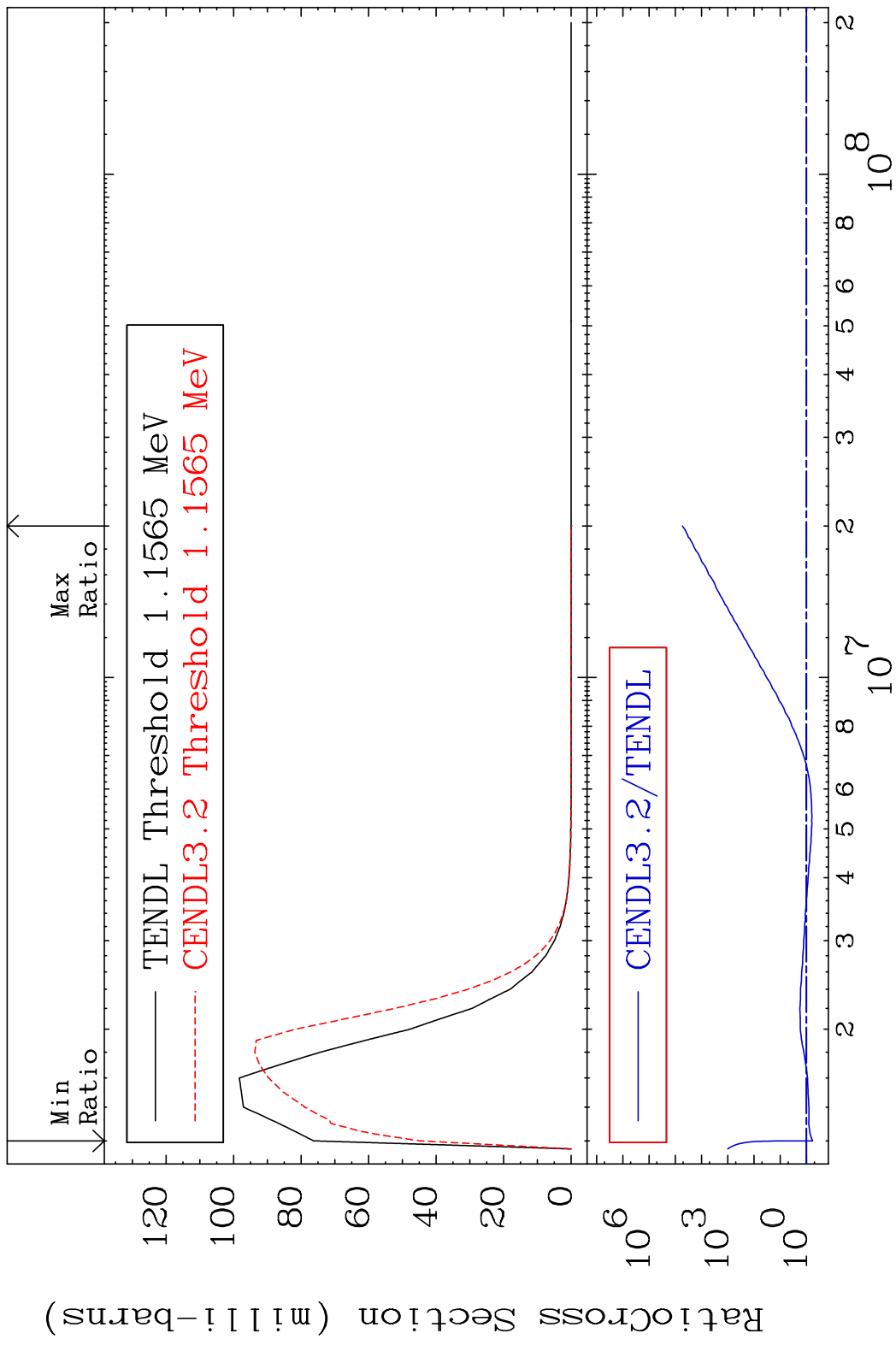


10 Incident Energy (eV) 72-Hf-176

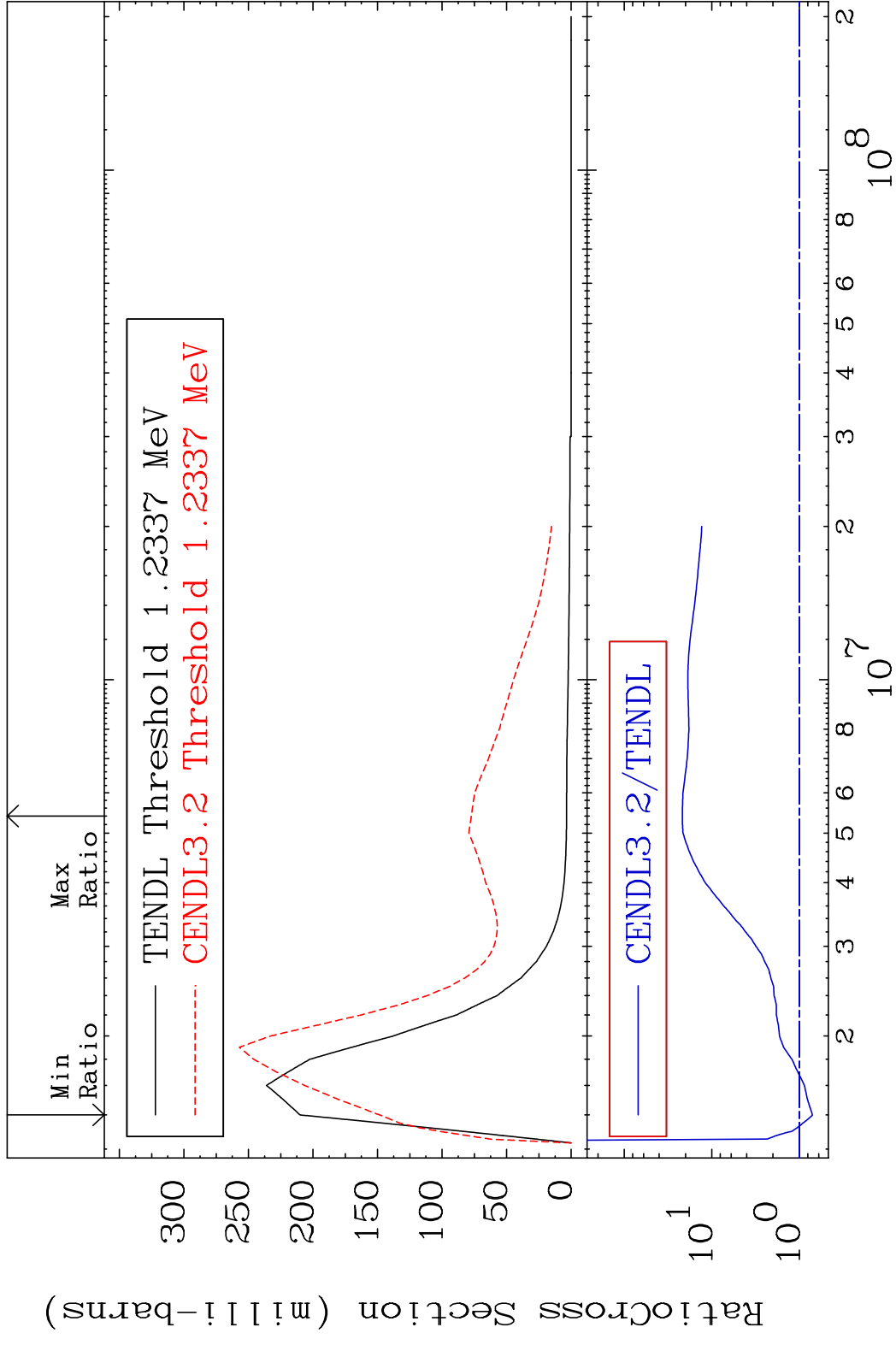
MAT 7231 MT= 54 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 181.9 %



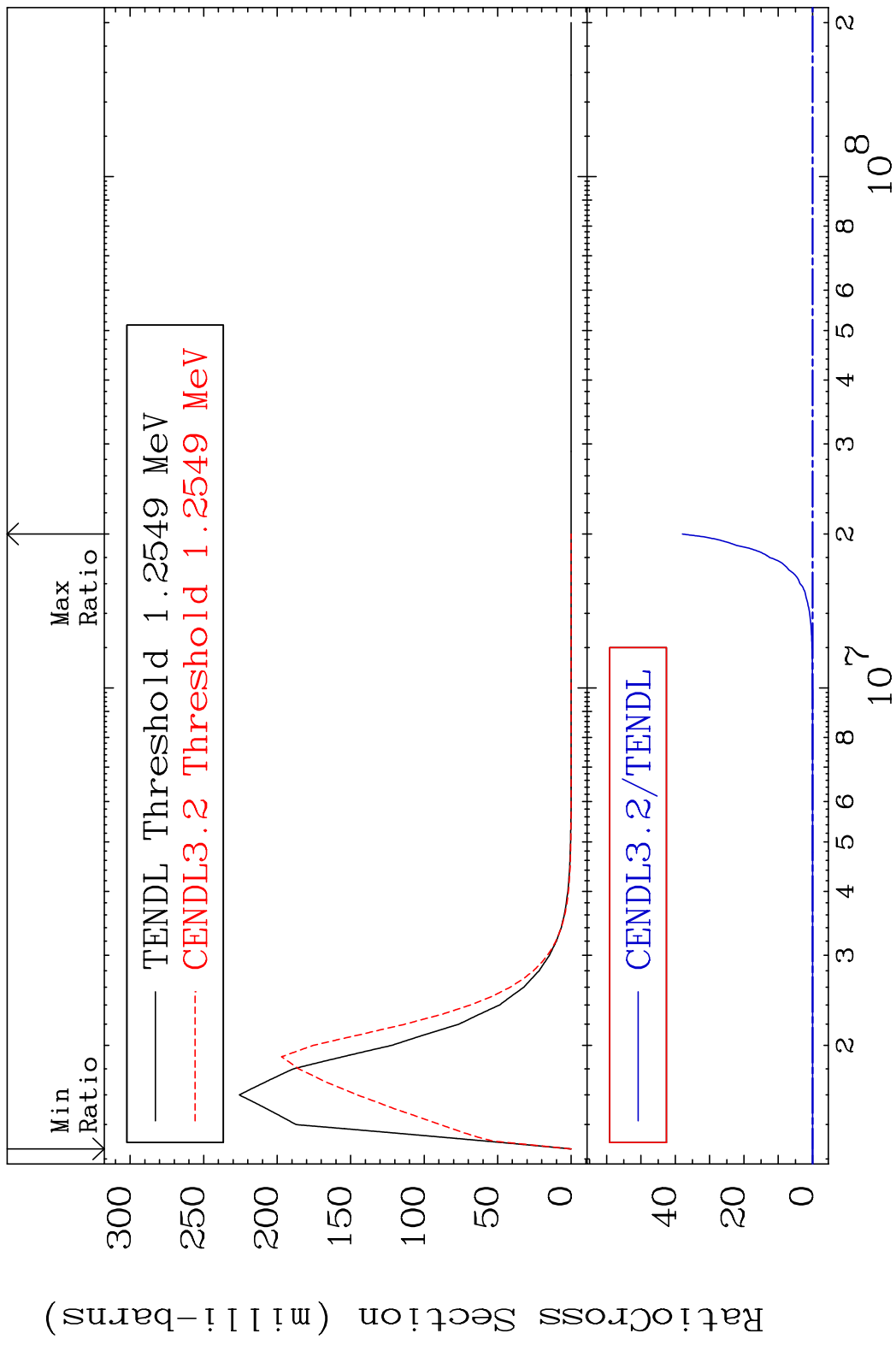
MAT 7231 MT= 55 (n, n') Level 72-Hf-176
 Cross Section -41.27 To 9999. %



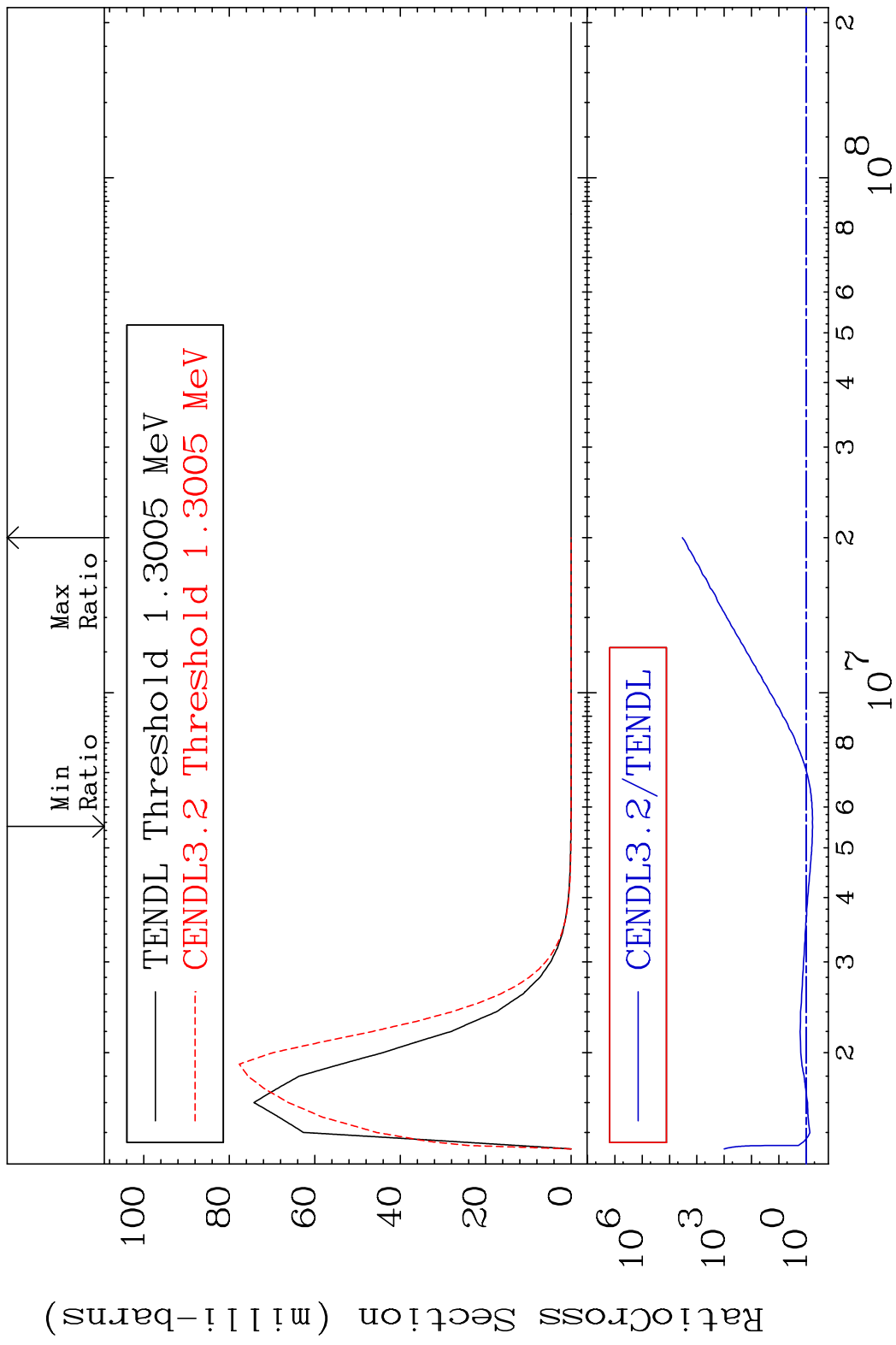
MAT 7231 MT= 56 (n,n') Level 72-Hf-176
 Cross Section -29.33 To 2071. %



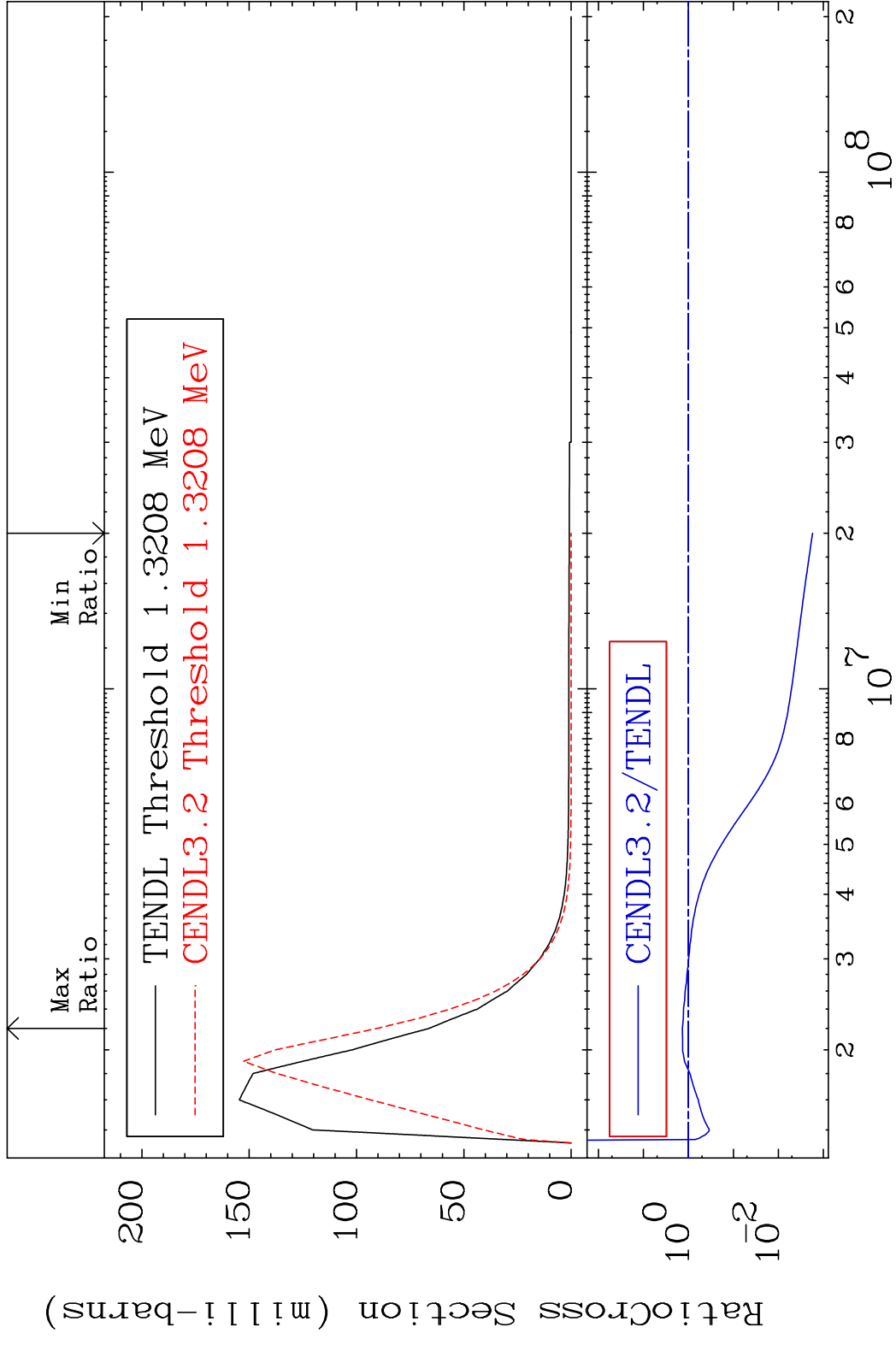
MAT 7231 MT= 57 (n, n') Level 72-Hf-176
 Cross Section -100.0 To 9999. %



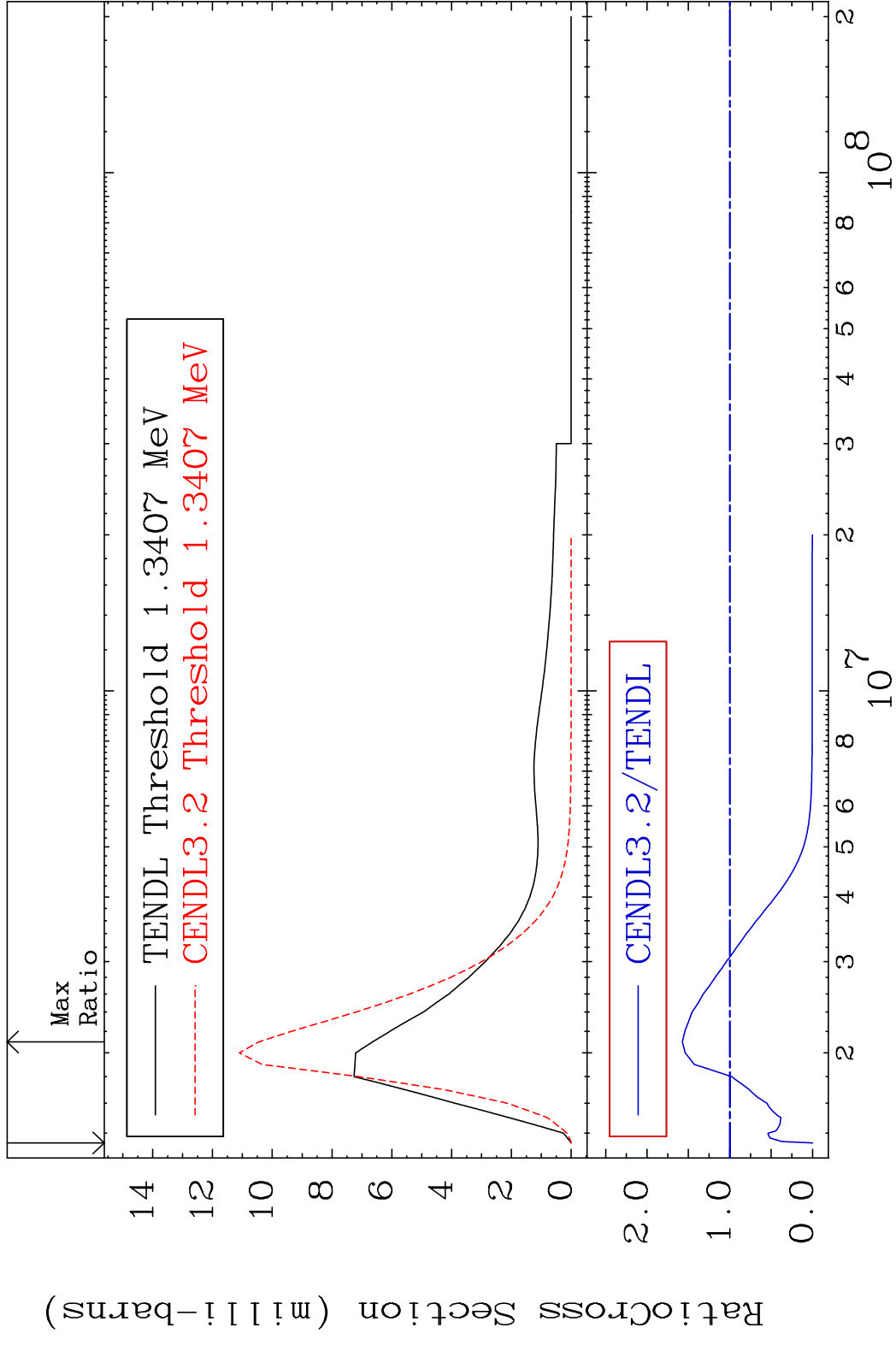
MAT 7231 MT= 58 (n, n') Level 72-Hf-176
 Cross Section -41.88 To 9999. %



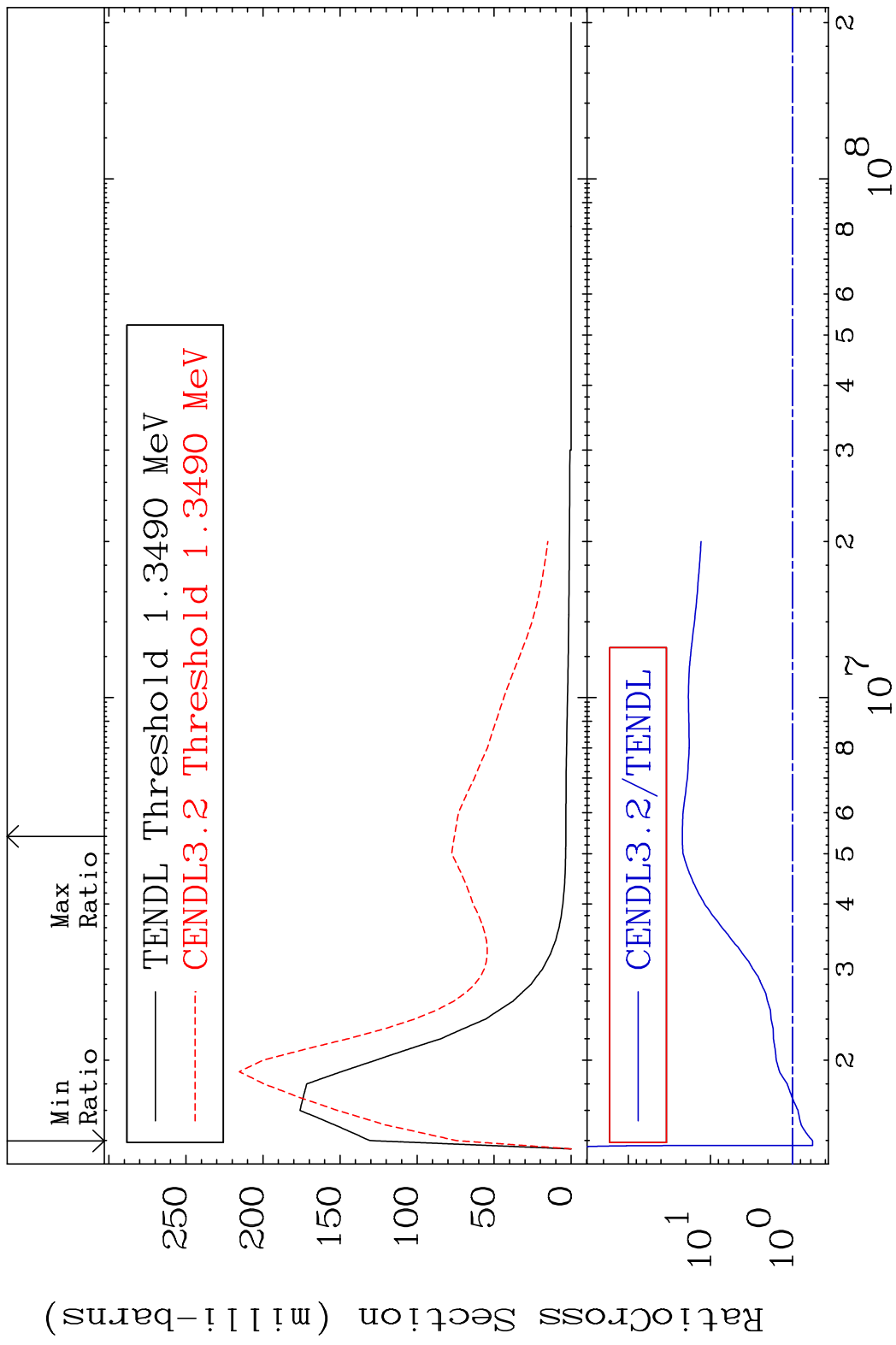
MAT 7231 MT= 59 (n, n') Level 72-Hf-176
 Cross Section -99.83 To 36.37 %



MAT 7231 MT= 60 (n,n') Level 72-Hf-176
 Cross Section -100.0 To 57.34 %



MAT 7231 MT= 61 (n, n') Level 72-Hf-176
 Cross Section -42.83 To 2098. %

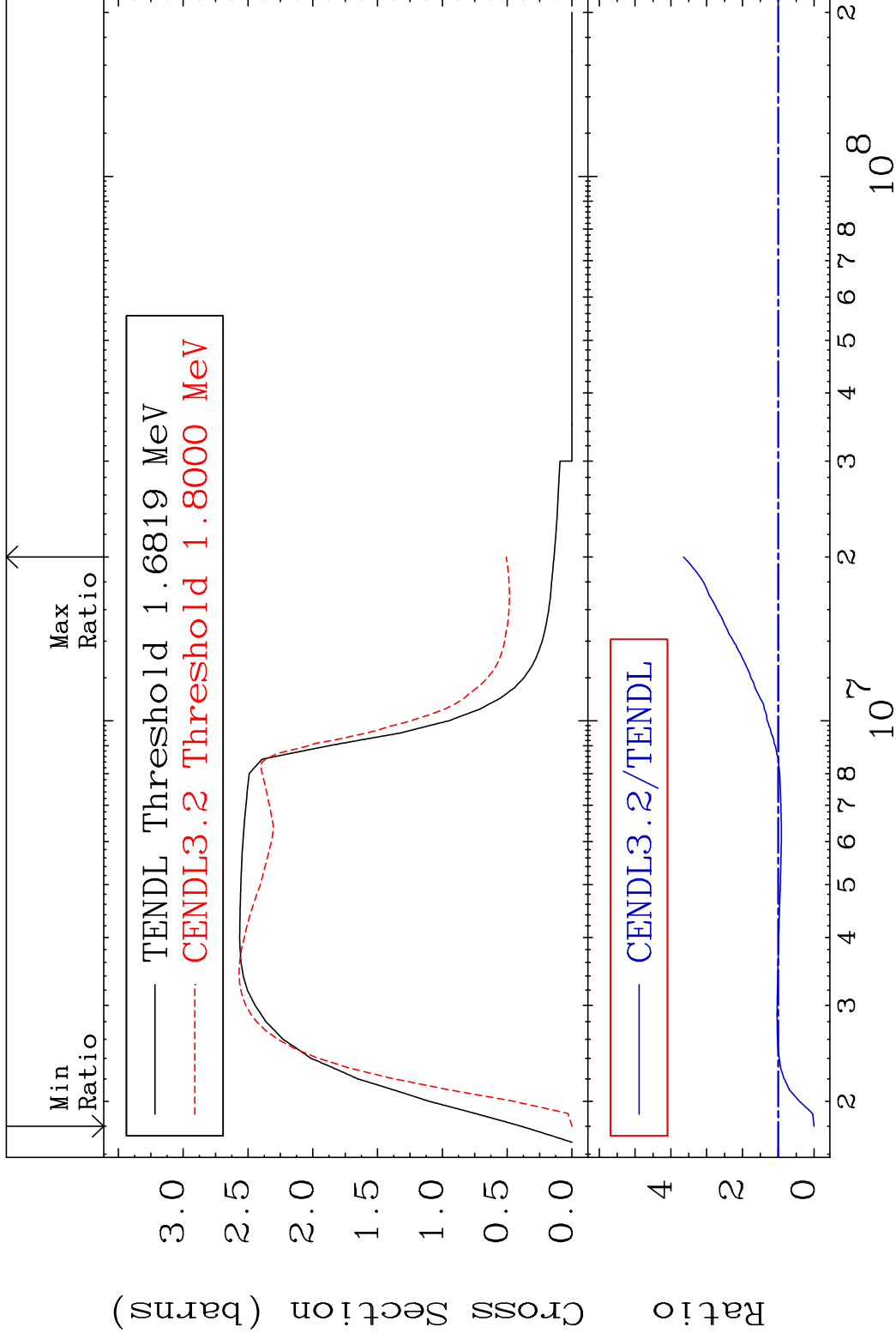


MAT 7231

(n, n') Continuum

72-Hf-176

Cross Section -100.0 To 264.8 %

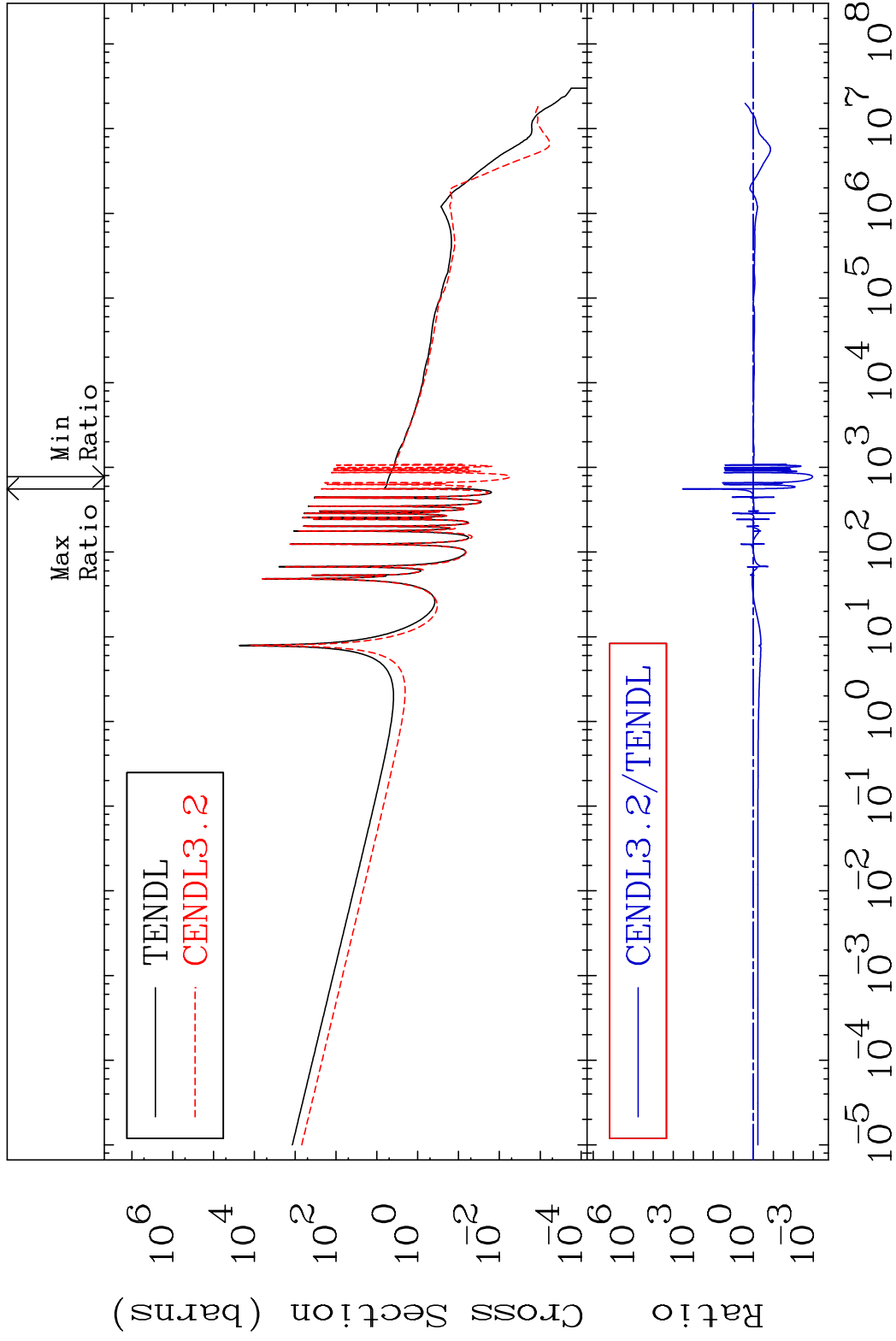


MAT 7231

(n, γ)

72-Hf-176

Cross Section -99.89 To 9999. %



20

Incident Energy (eV)

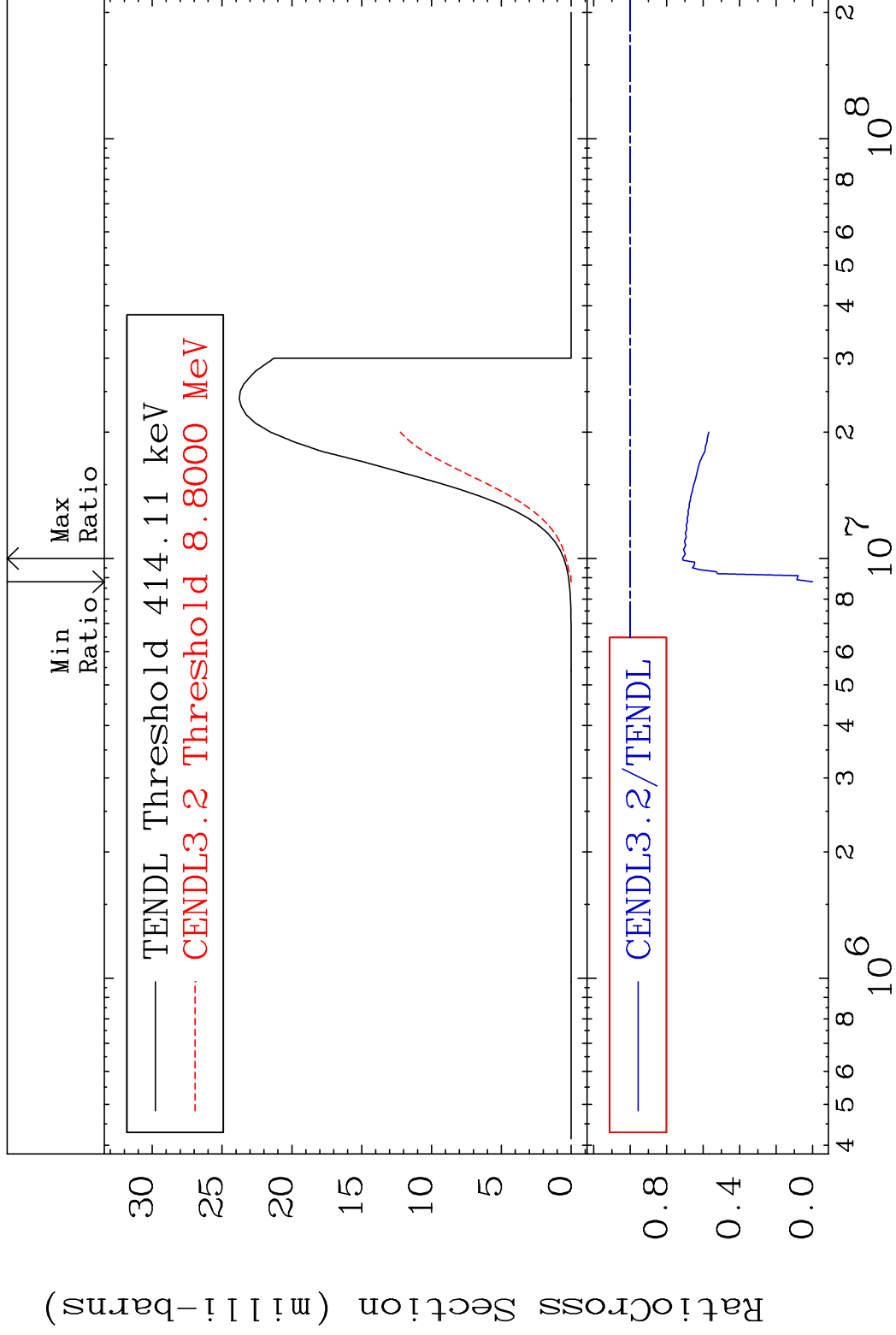
72-Hf-176

MAT 7231

(n, p)

72-Hf-176

Cross Section -100.0 To -28.62%



21

Incident Energy (eV)

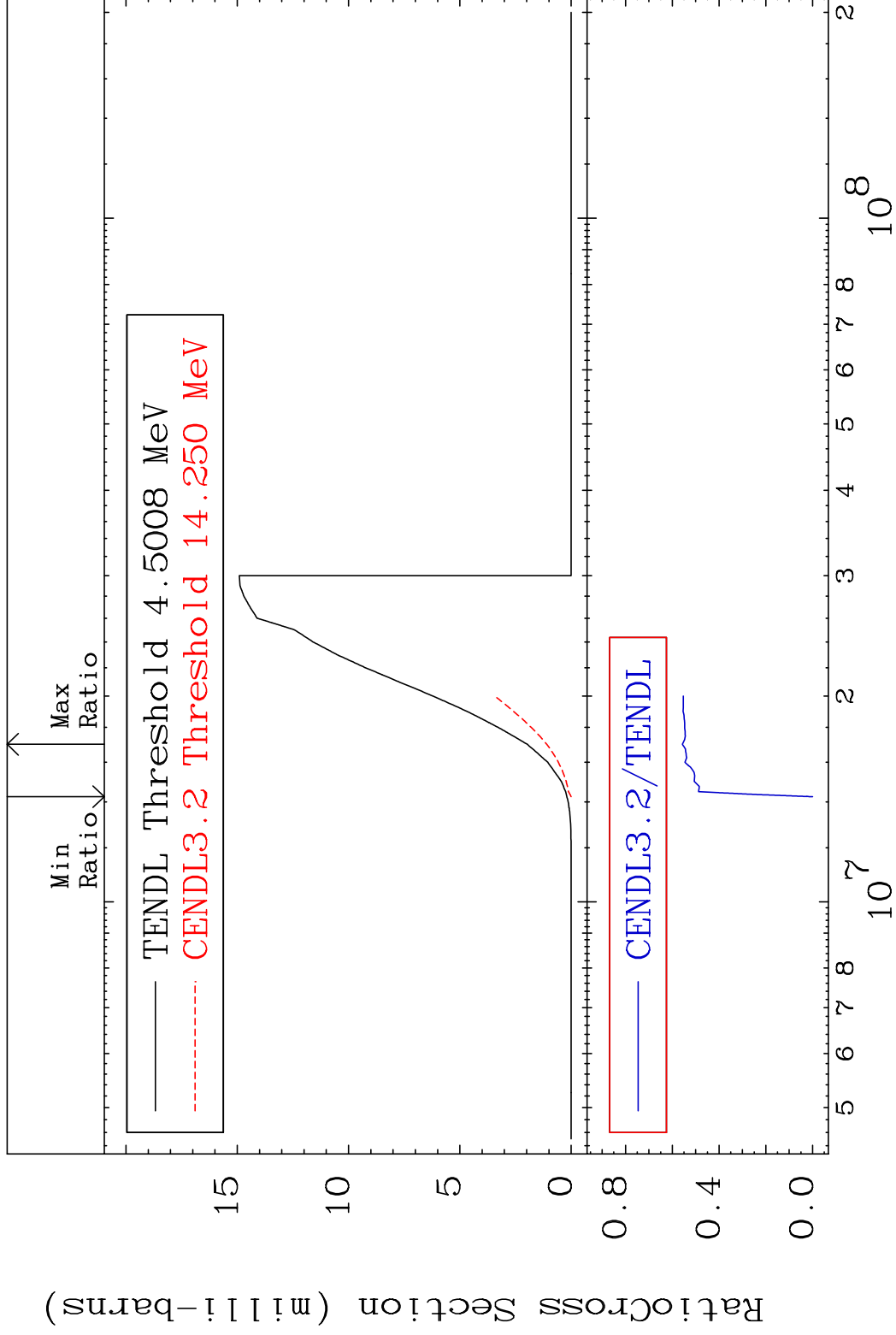
72-Hf-176

MAT 7231

(n, d)

72-Hf-176

Cross Section -100.0 To -44.30%



22

Incident Energy (eV)

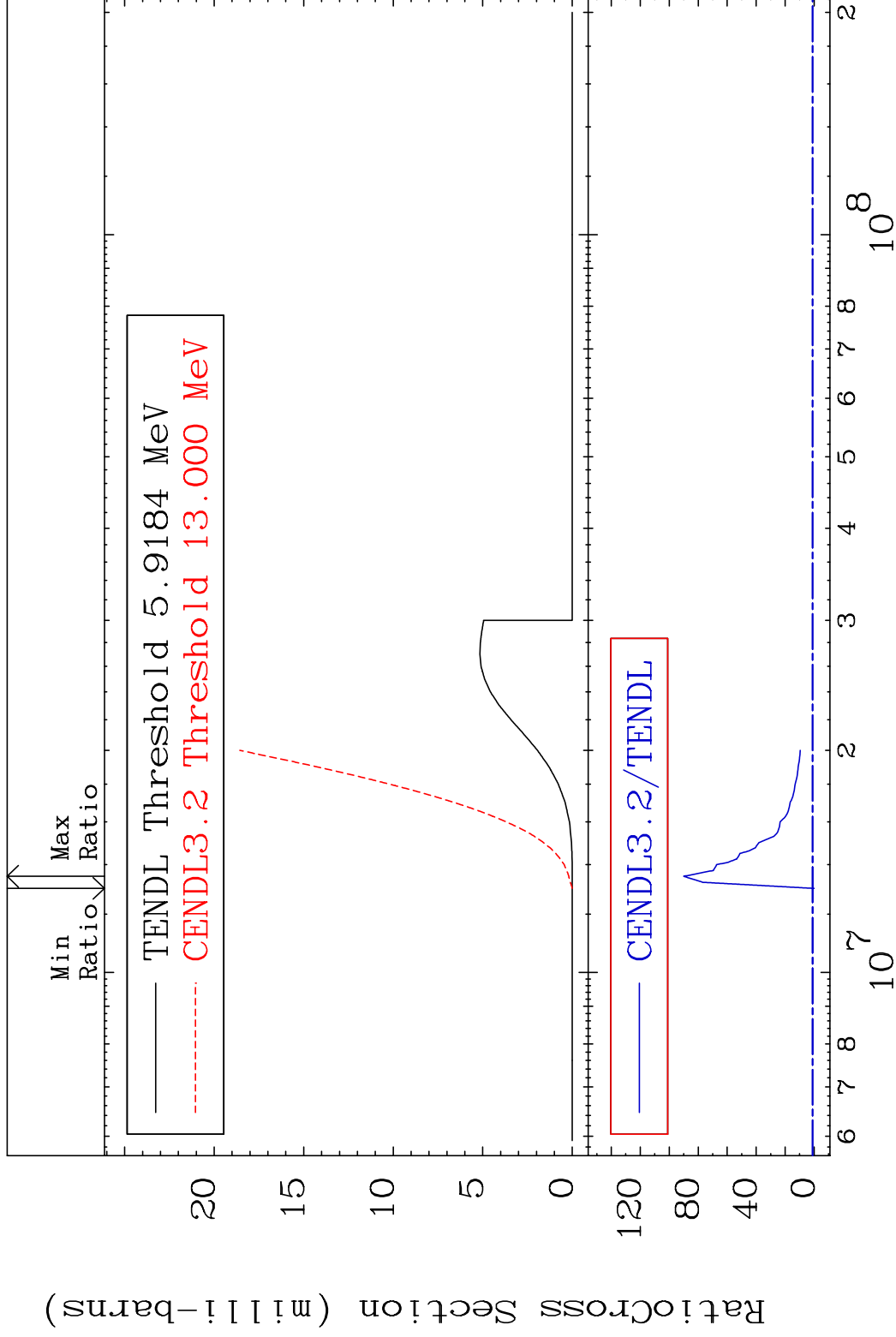
72-Hf-176

MAT 7231

(n, t)

72-Hf-176

Cross Section -100.0 To 8904. %



23

Incident Energy (eV)

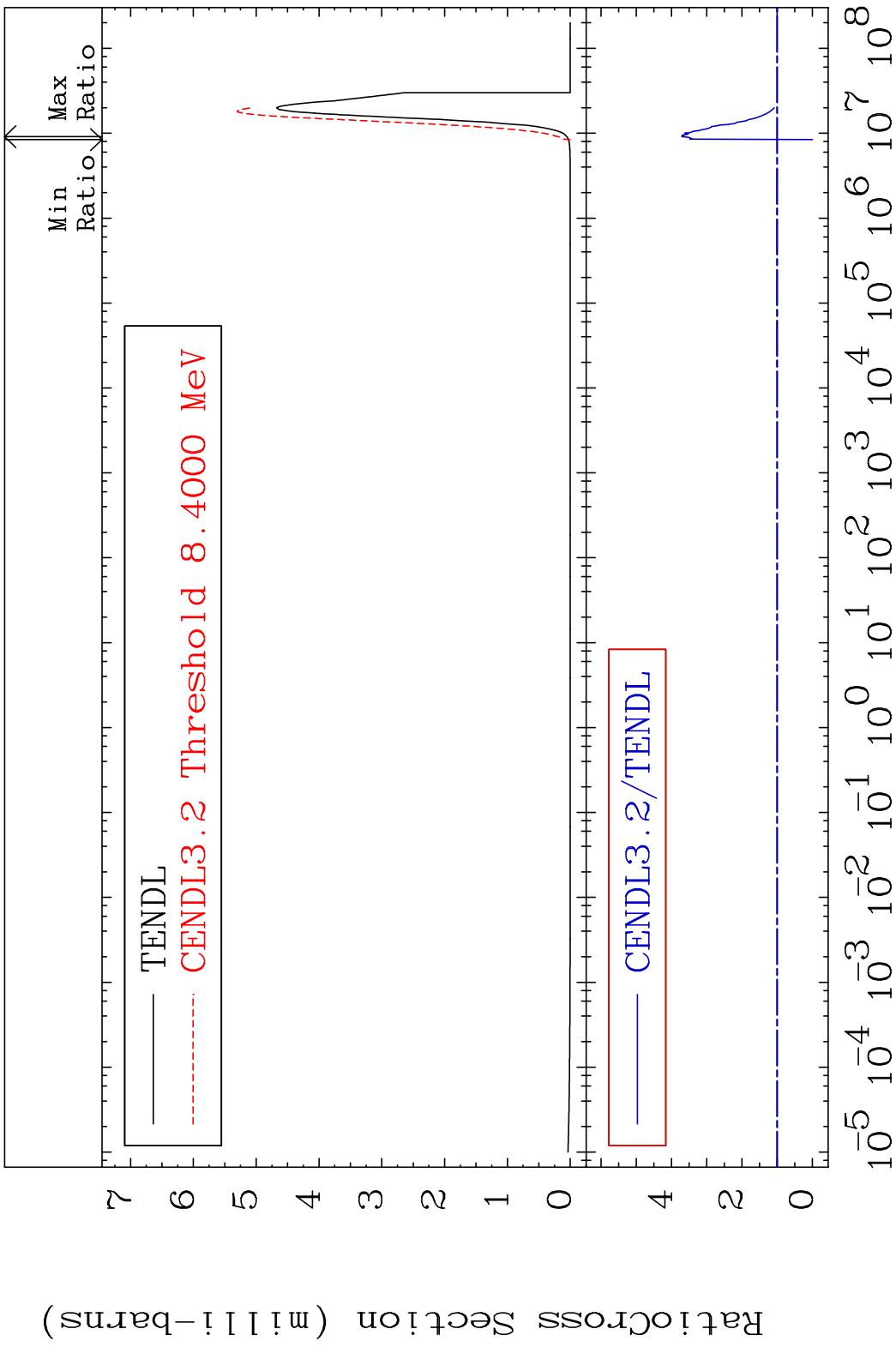
72-Hf-176

MAT 7231

(n, α)

72-Hf-176

Cross Section -100.0 To 270.7 %



24

Incident Energy (eV)

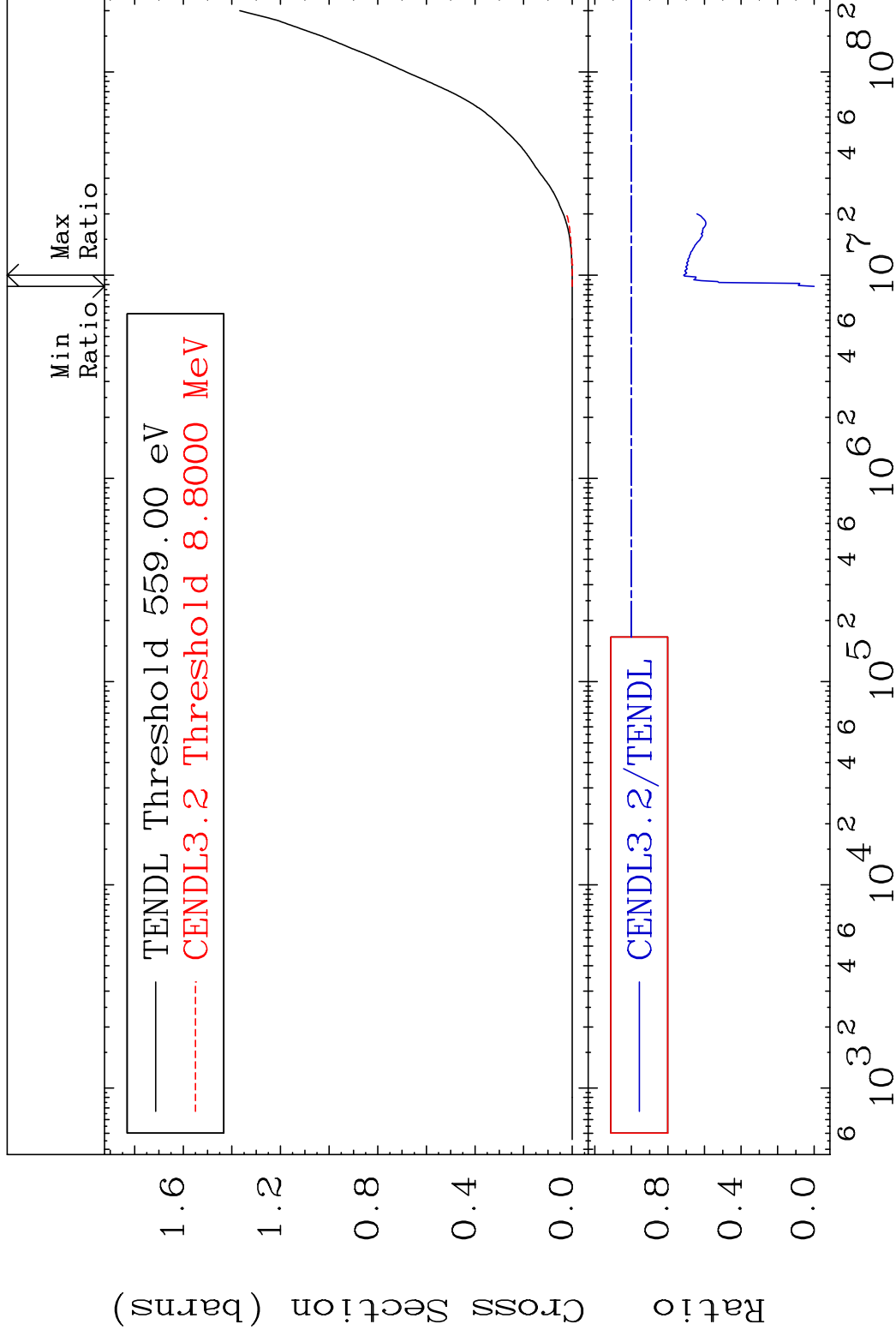
72-Hf-176

MAT 7231

Hydrogen Production

72-Hf-176

Cross Section -100.0 To -28.63%



25

Incident Energy (eV)

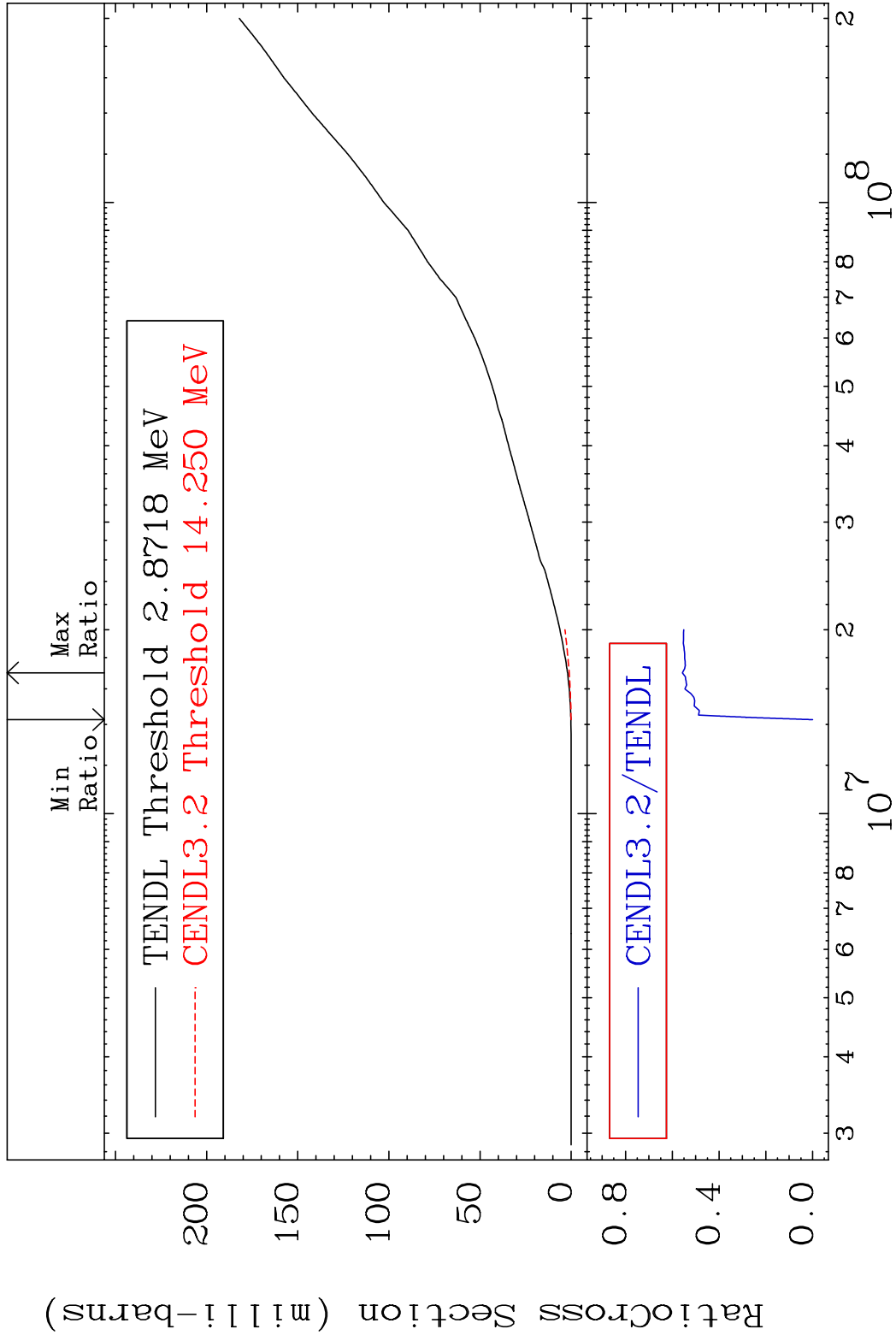
72-Hf-176

MAT 7231

Deuterium Production

72-Hf-176

Cross Section -100.0 To -44.30%



26

Incident Energy (eV)

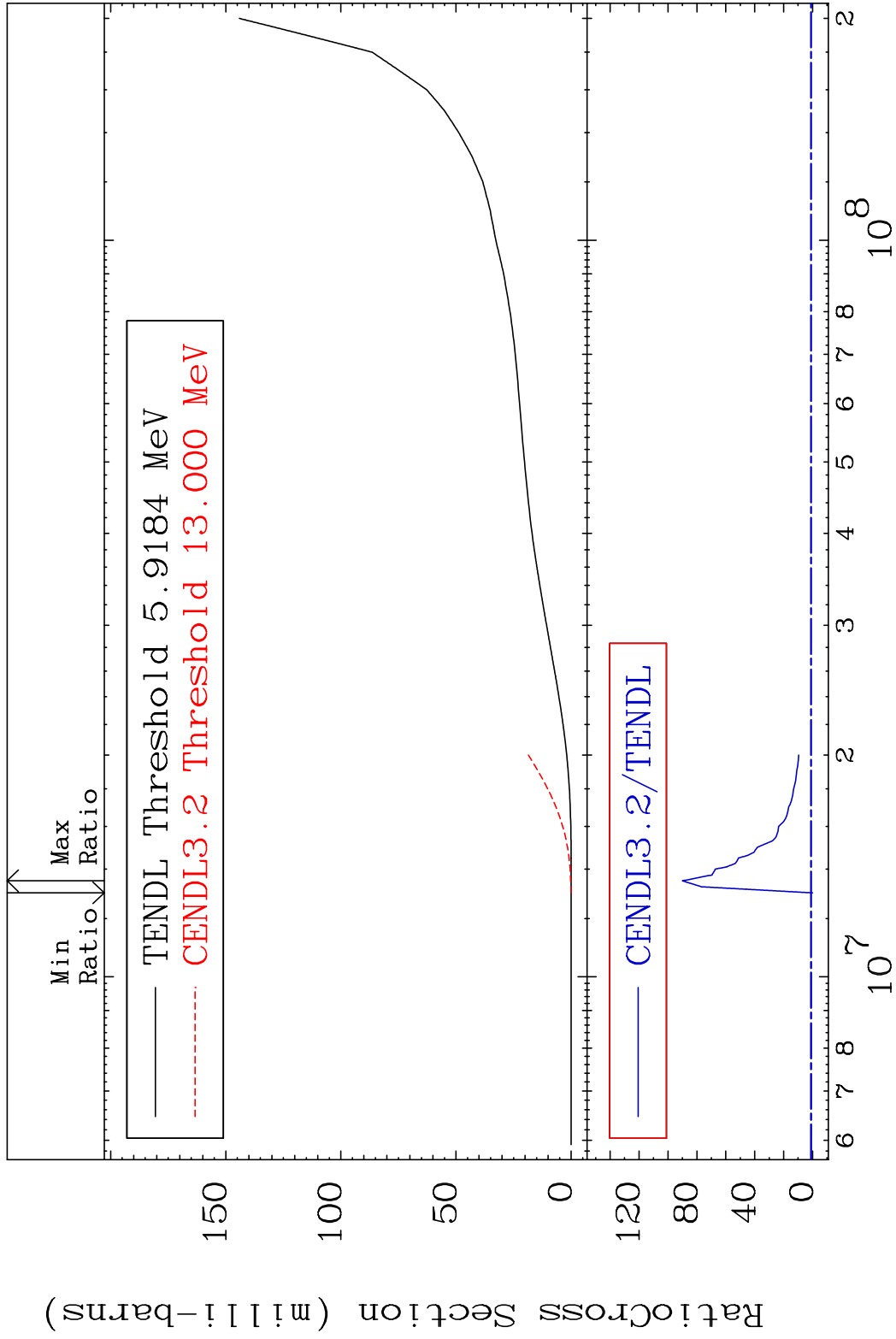
72-Hf-176

MAT 7231

Tritium Production

72-Hf-176

Cross Section -100.0 To 8904. %



27

Incident Energy (eV)

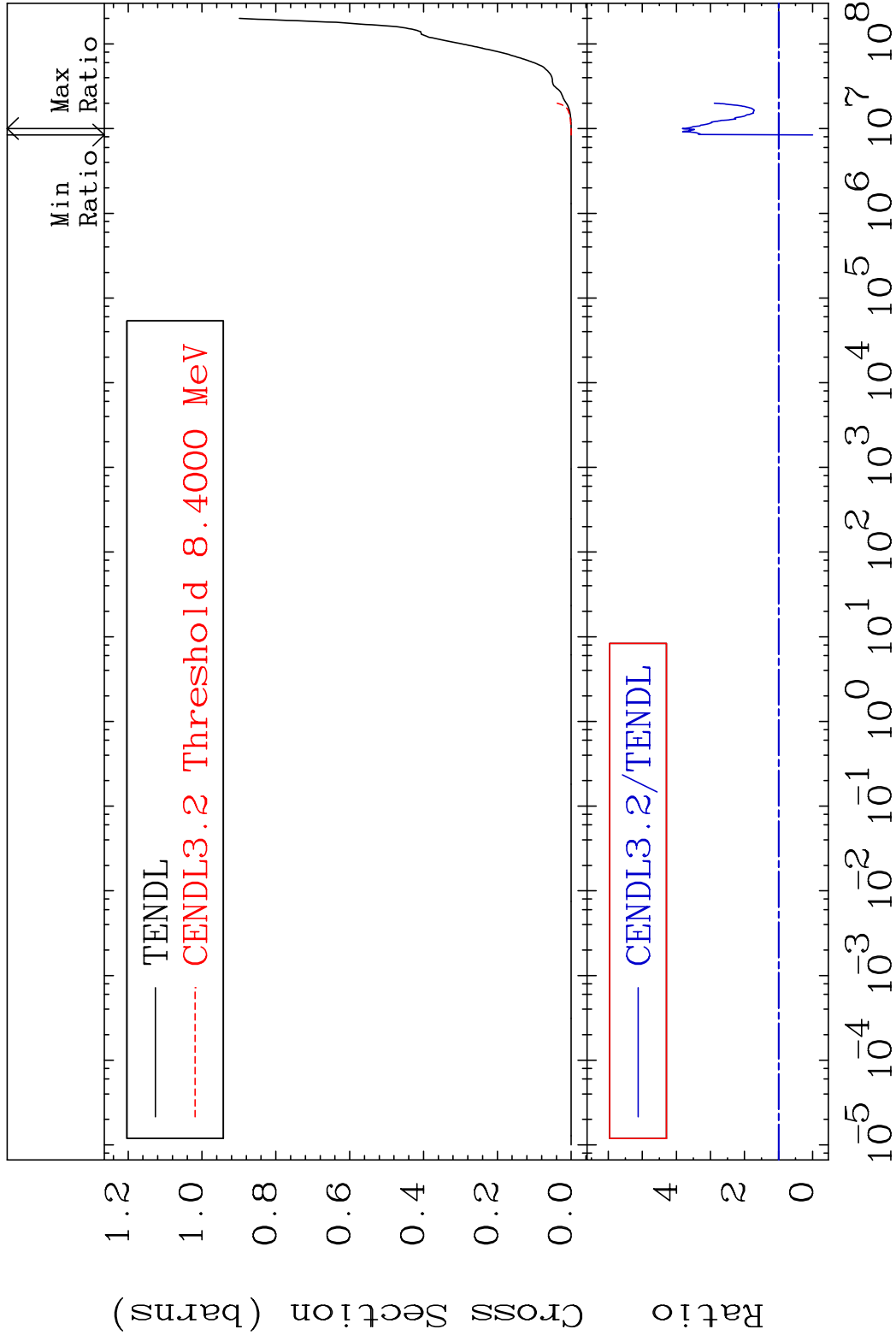
72-Hf-176

MAT 7231

He-4 Production

72-Hf-176

Cross Section -100.0 To 282.5 %

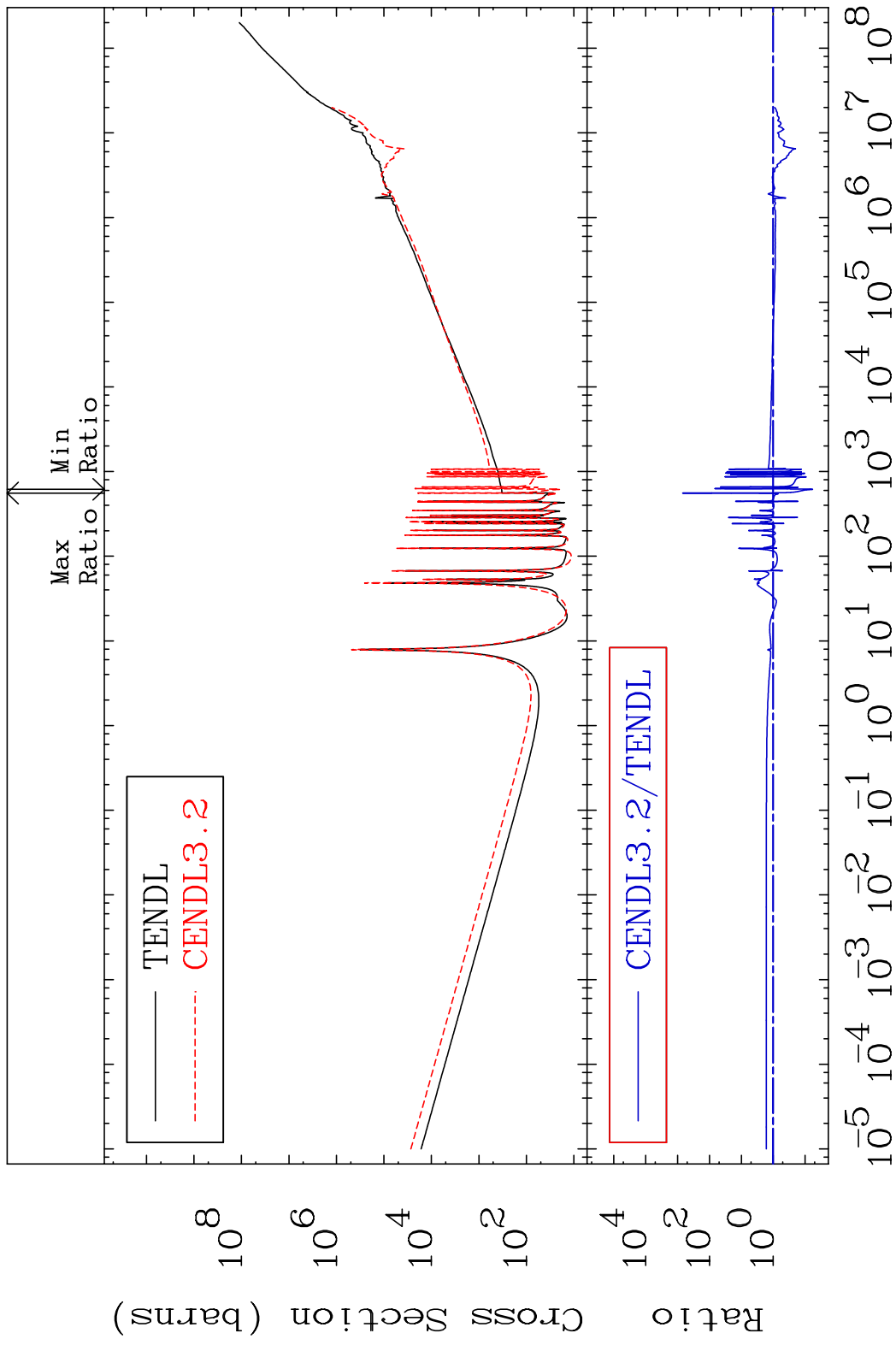


28

Incident Energy (eV)

72-Hf-176

MAT 7231 Kerma total (eV-barns) 72-Hf-176
 Cross Section -94.15 To 9999. %

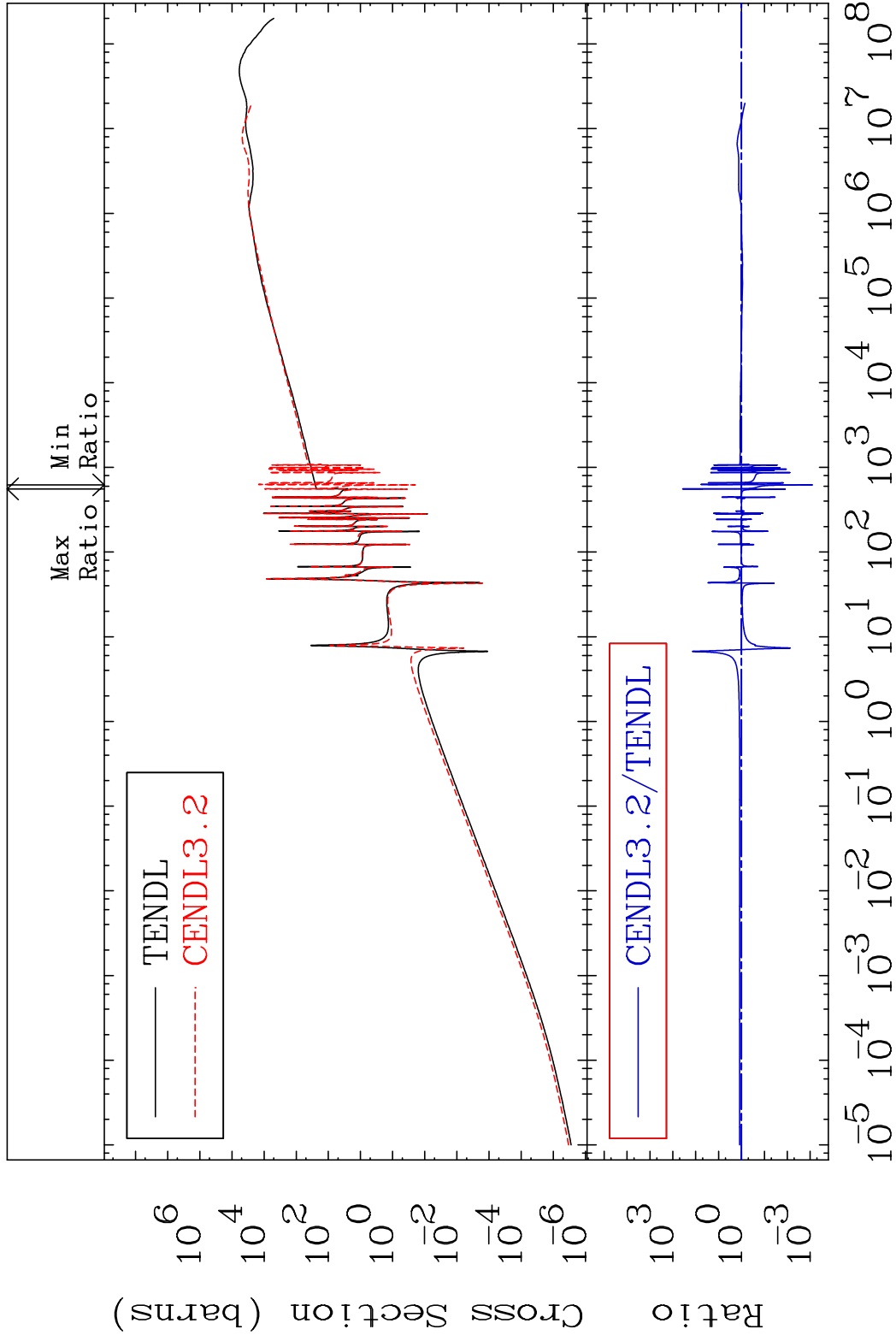


MAT 7231

Kerma elastic

72-Hf-176

Cross Section -99.92 To 9999. %

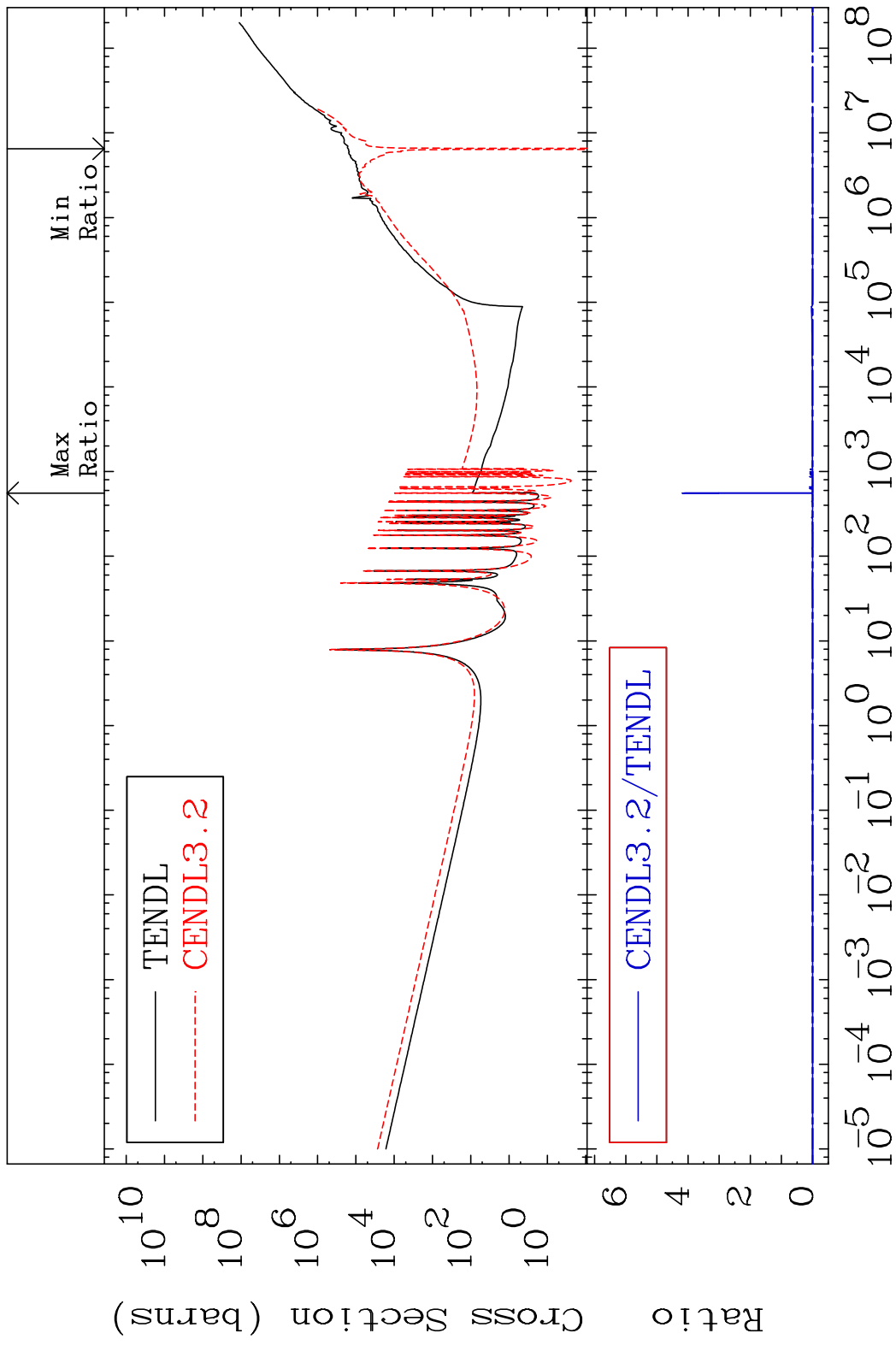


30

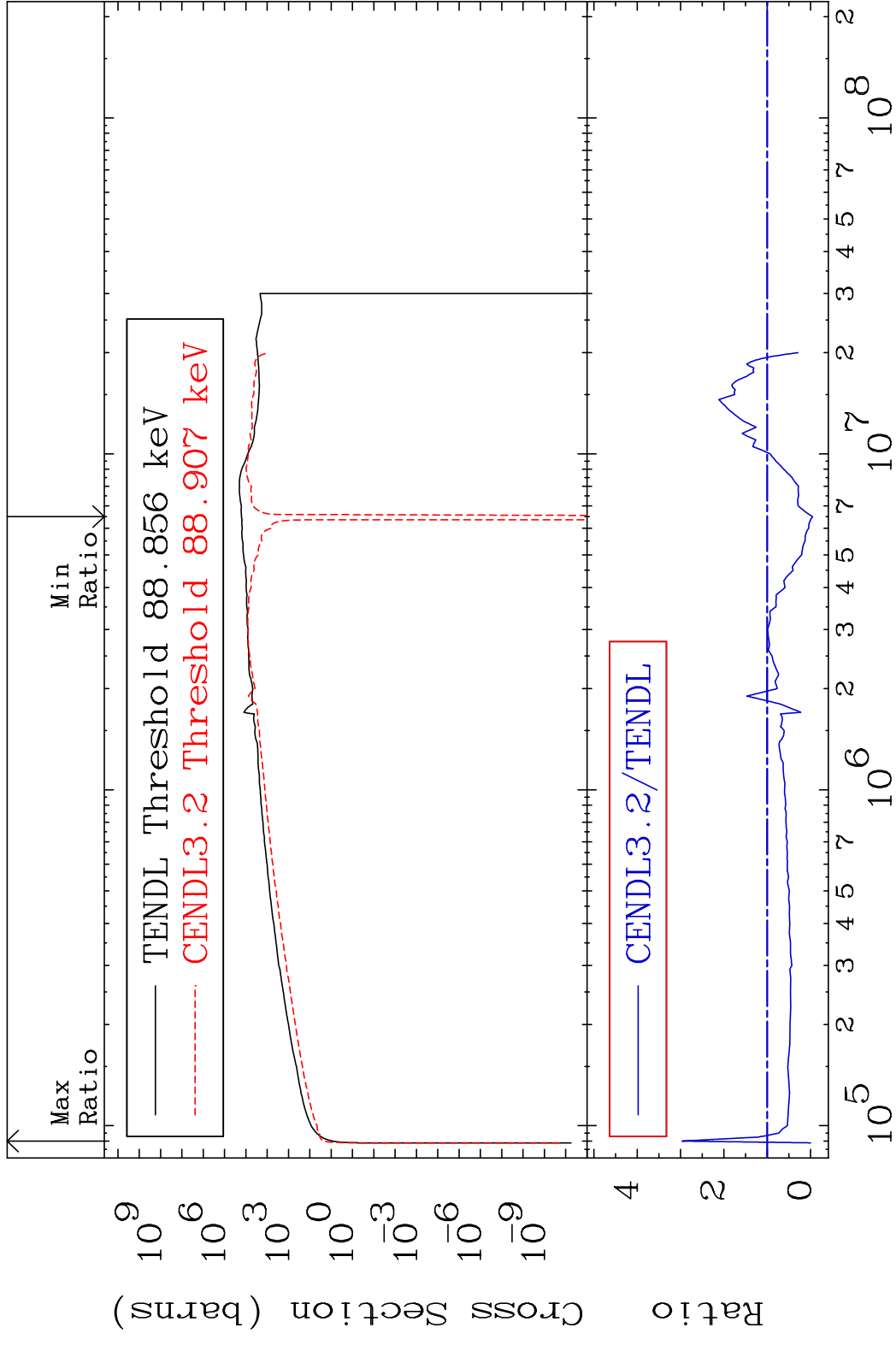
Incident Energy (eV)

72-Hf-176

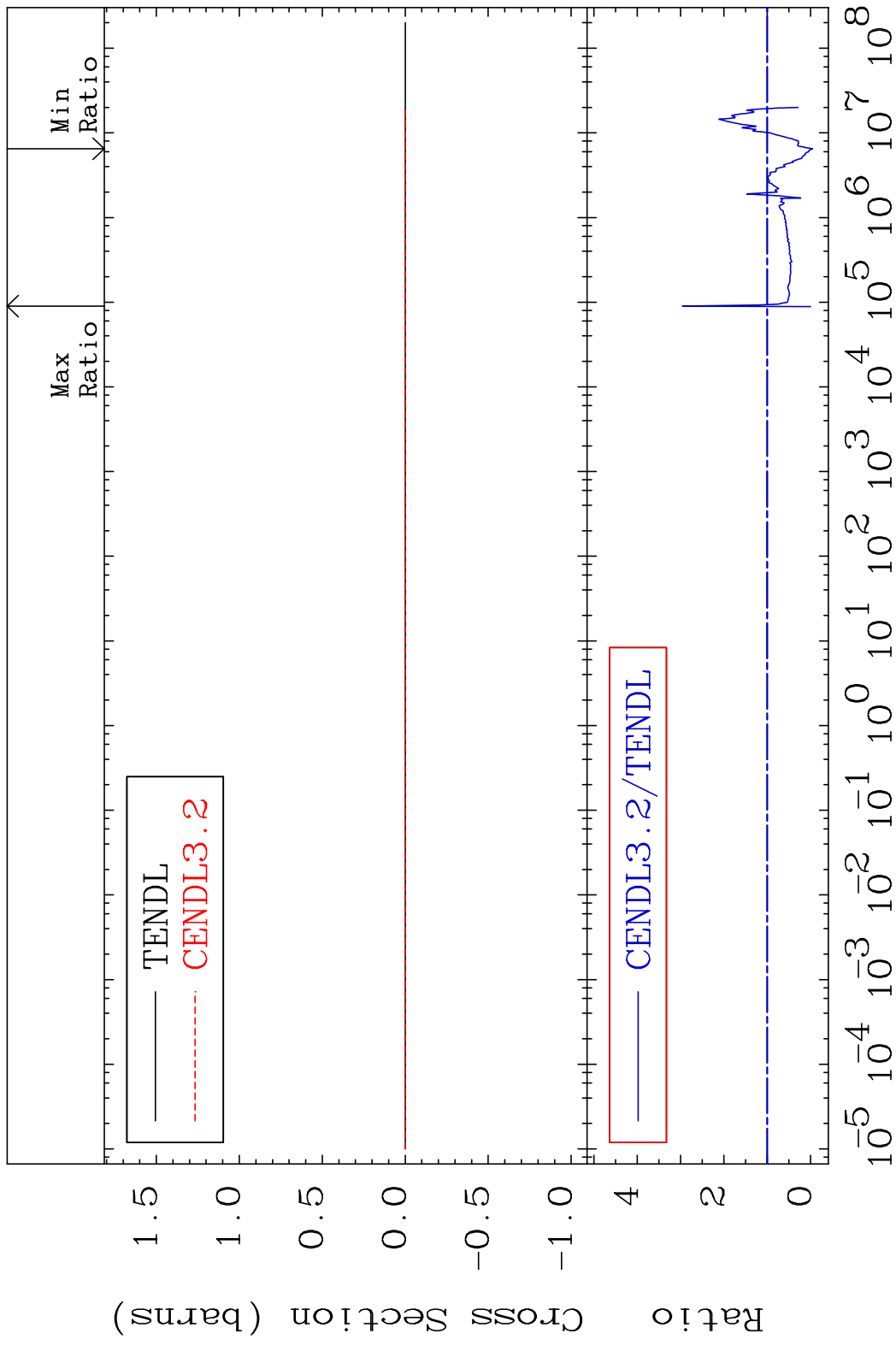
MAT 7231 Kerma non-elastic (all but mt2) 72-Hf-176
 Cross Section -104.5 To 9999. %



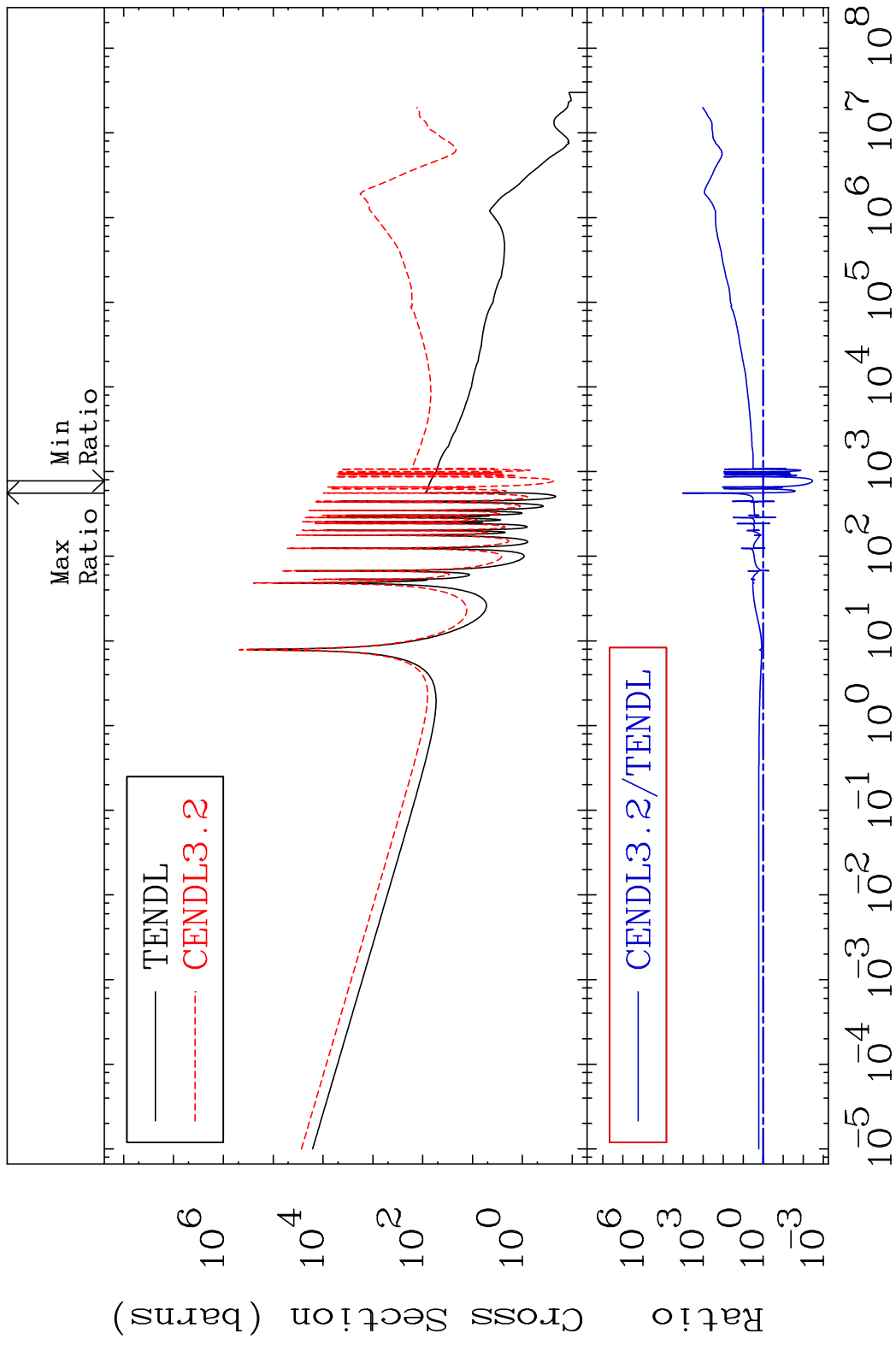
MAT 7231 Kerma inelastic (mt51-91) 72-Hf-176
 Cross Section -104.6 To 195.8 %



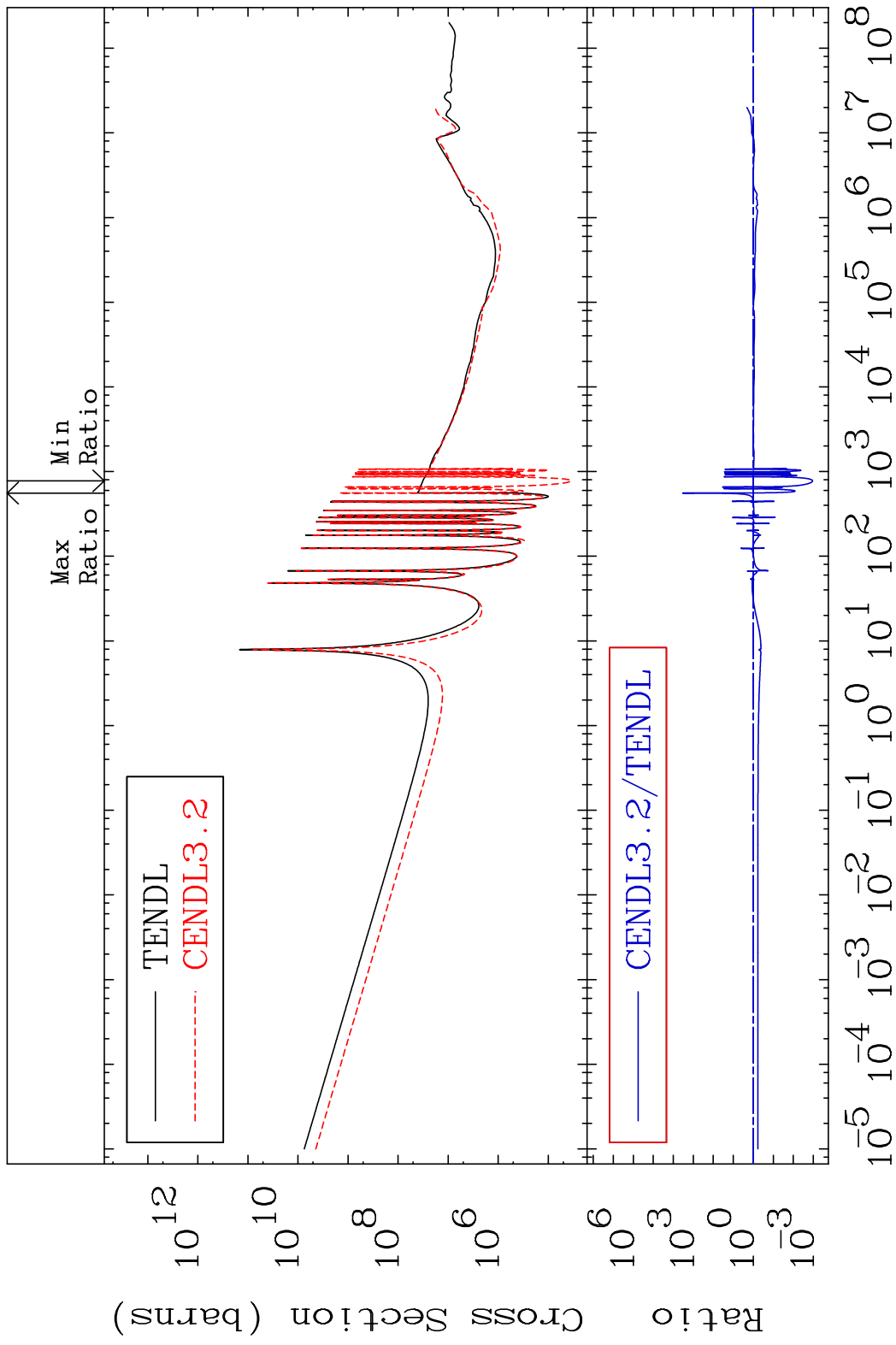
MAT 7231 Kerma fission (mt18 or mt19-20-21-38)72-Hf-176
 Cross Section -104.6 To 195.8 %



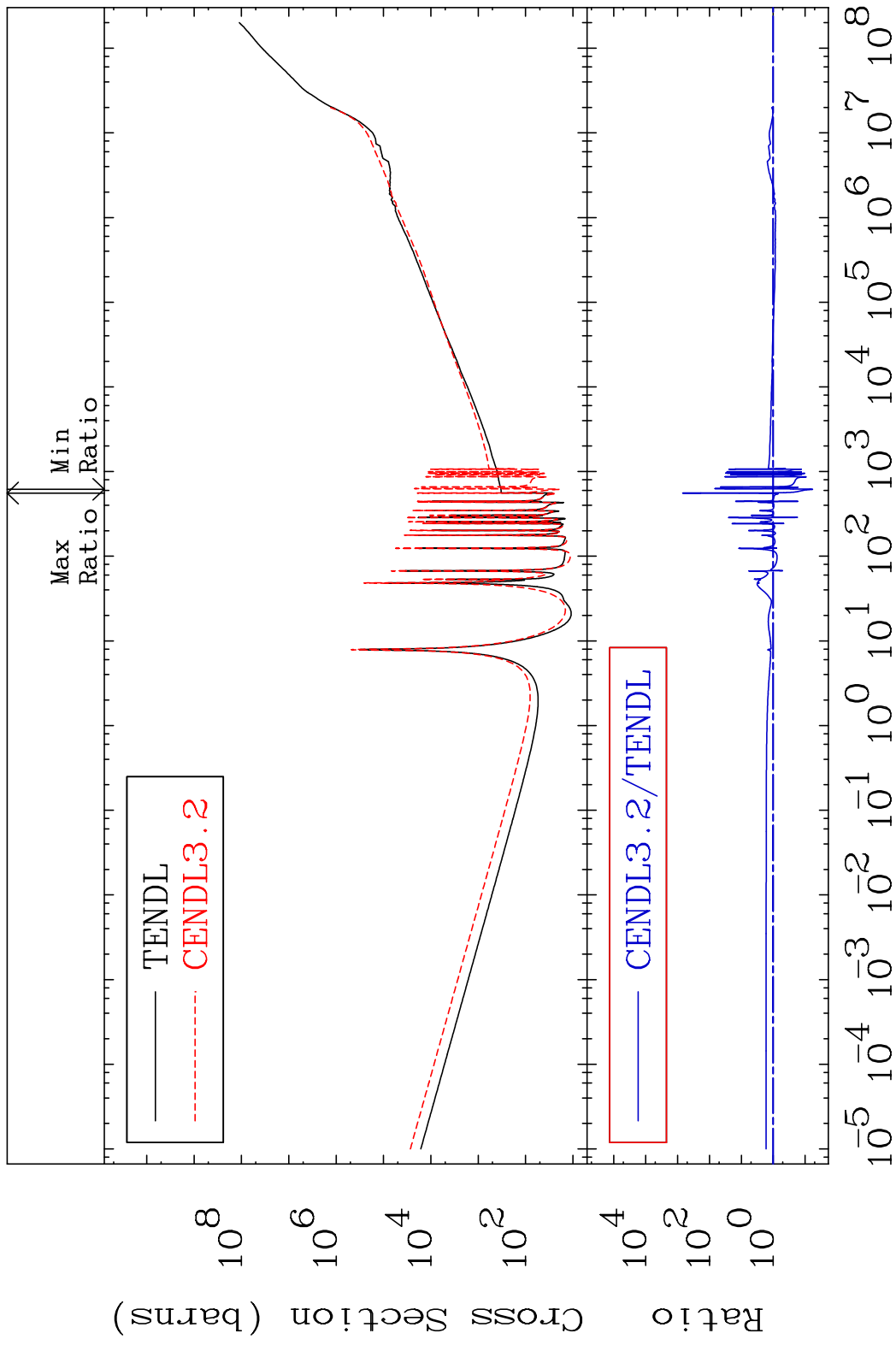
MAT 7231 Kerma capture (mt102) 72-Hf-176
 Cross Section -99.65 To 9999. %



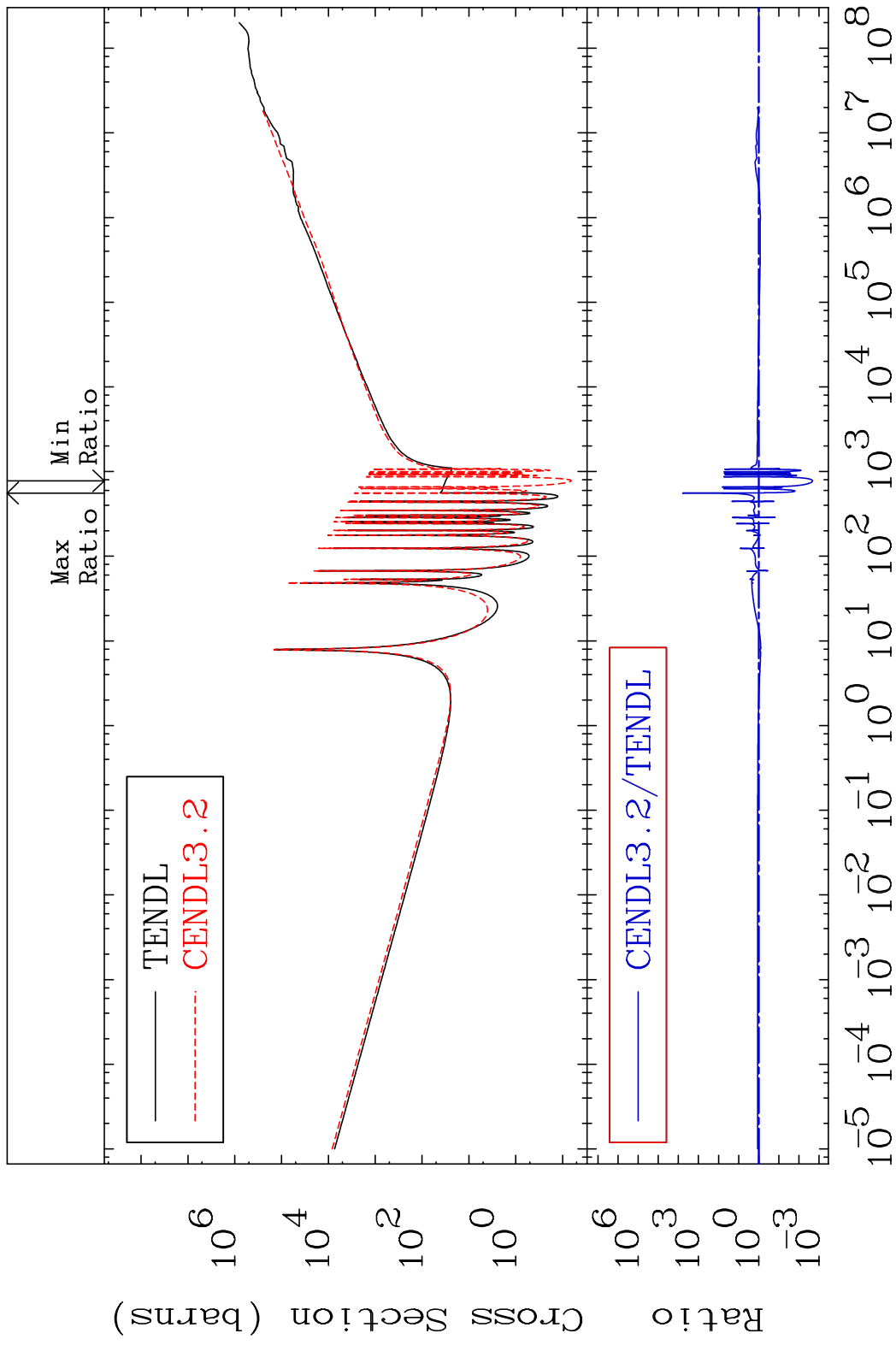
MAT 7231 Total photon (eV-barns) 72-Hf-176
 Cross Section -99.89 To 9999. %



MAT 7231 Total kinematic kerma (high limit) 72-Hf-176
 Cross Section -94.15 To 9999. %



MAT 7231 Dpa total (eV-barns) 72-Hf-176
 Cross Section -99.79 To 9999. %

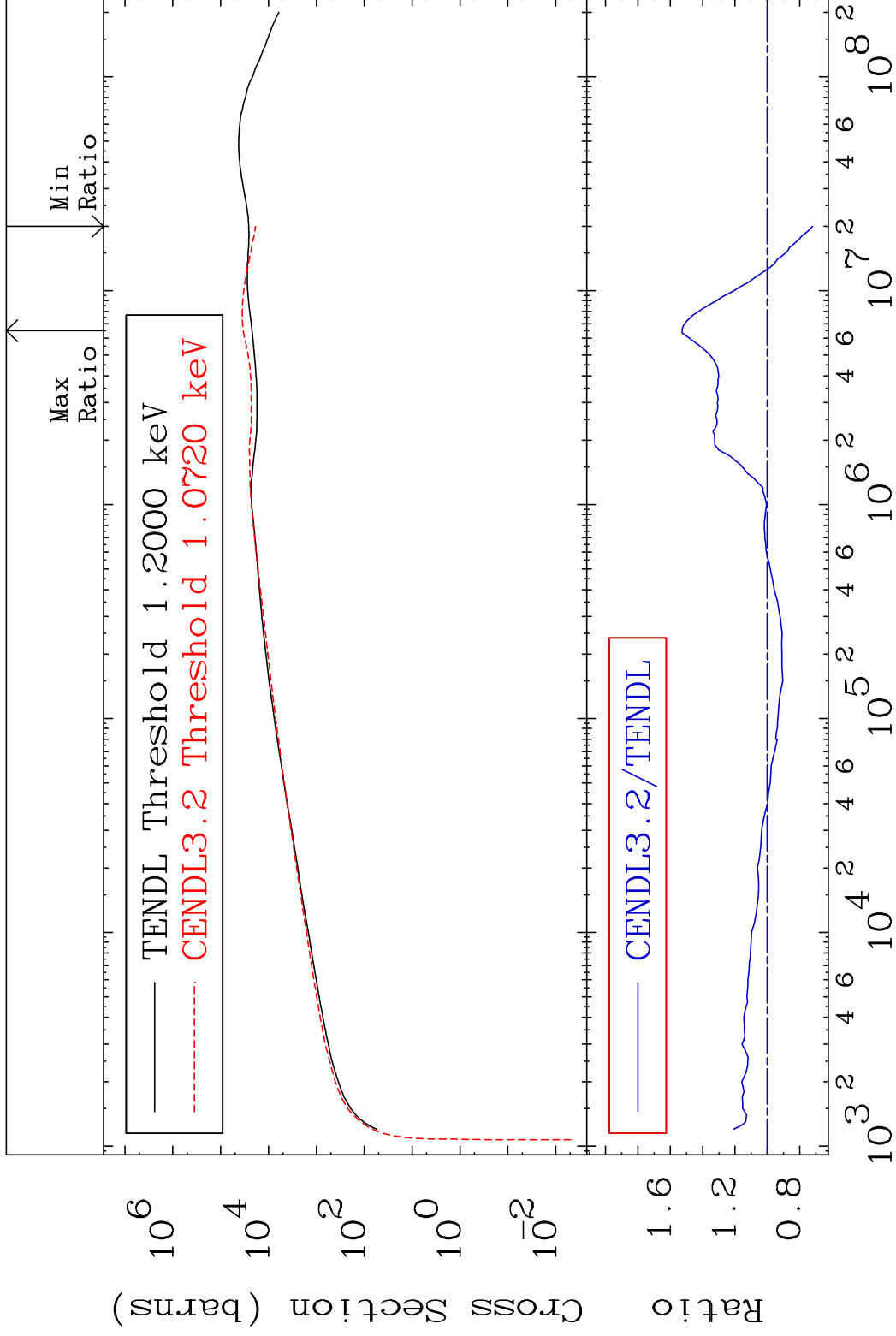


MAT 7231

Dpa elastic (mt2)

72-Hf-176

Cross Section -27.87 To 52.67 %

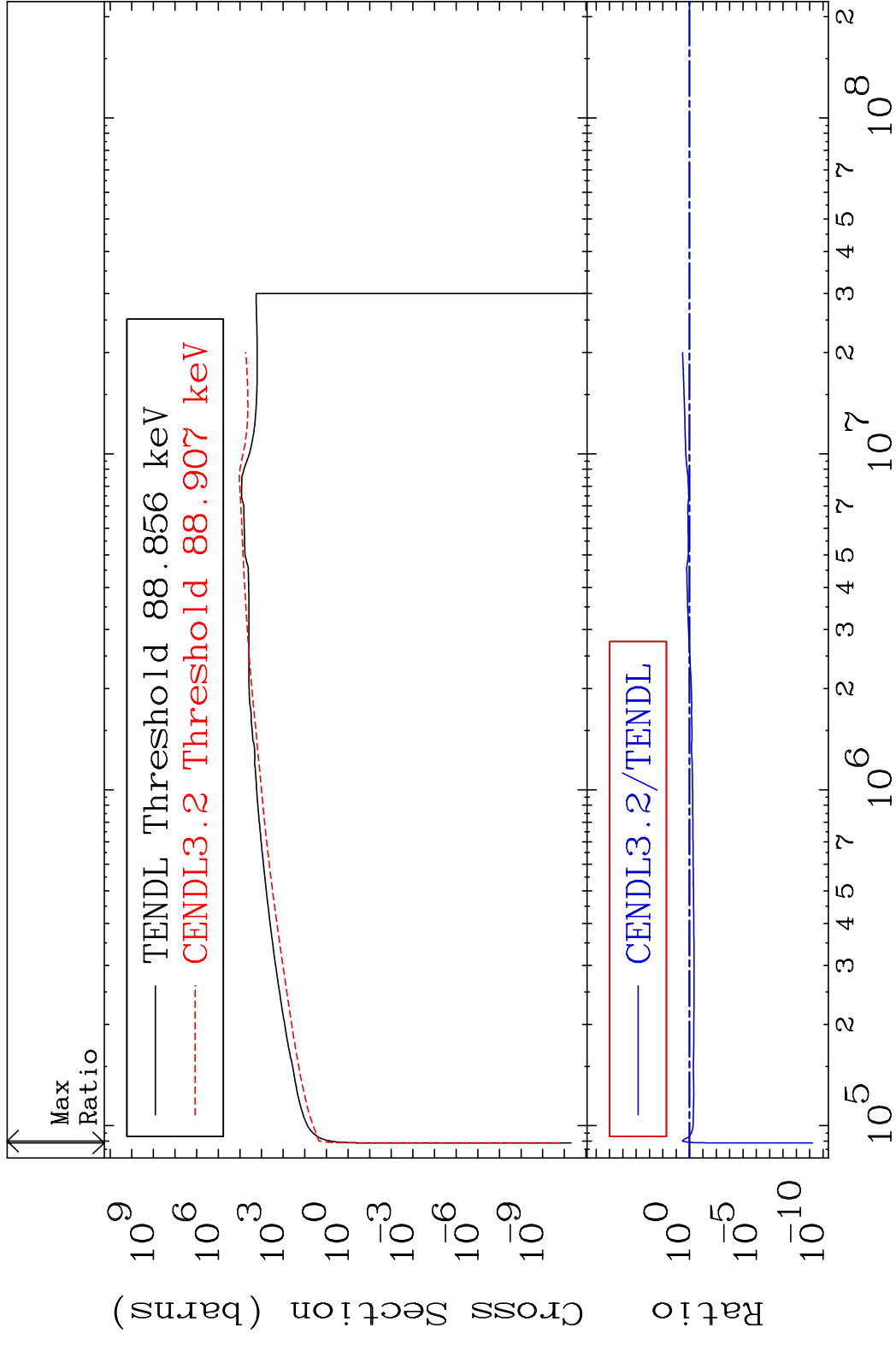


38

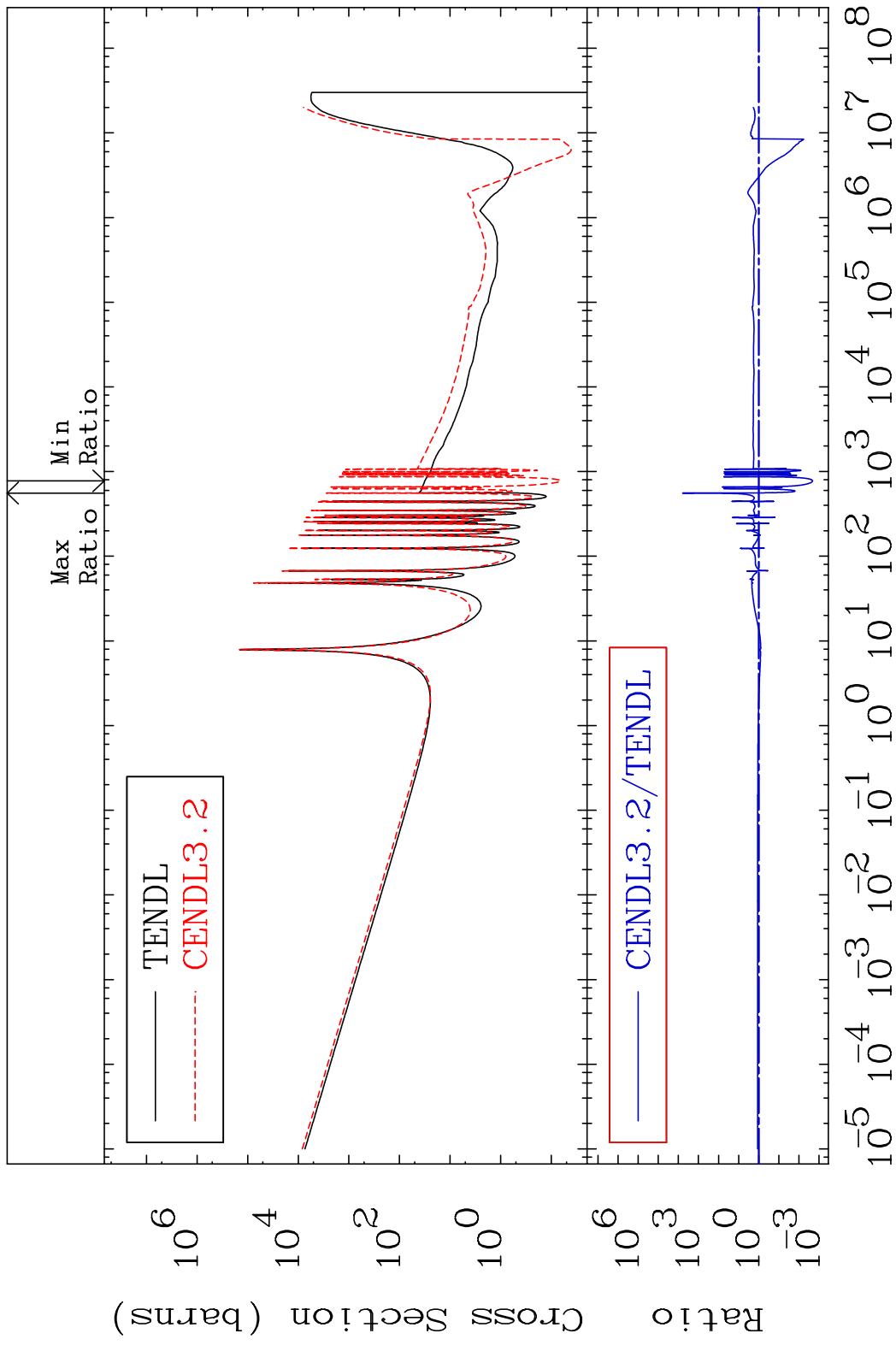
Incident Energy (eV)

72-Hf-176

MAT 7231 Dpa inelastic (mt51-91) 72-Hf-176
 Cross Section -100.0 To 247.2 %



MAT 7231 Dpa disappearance (mt102 -120) 72-Hf-176
 Cross Section -99.79 To 9999. %



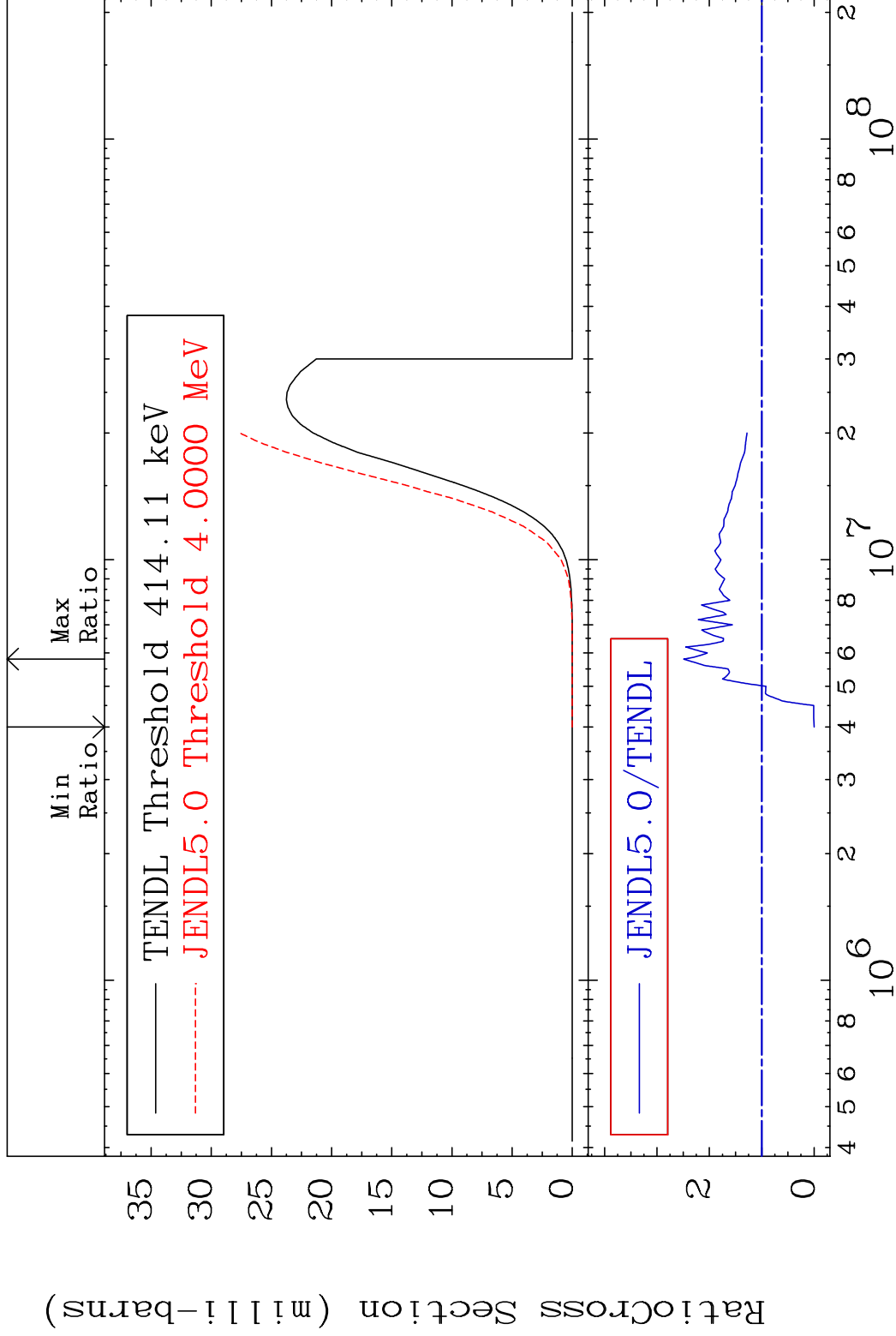
40 Incident Energy (eV) 72-Hf-176

MAT 7231

(n, p)

72-Hf-176

Cross Section -100.0 To 149.1 %



41

Incident Energy (eV)

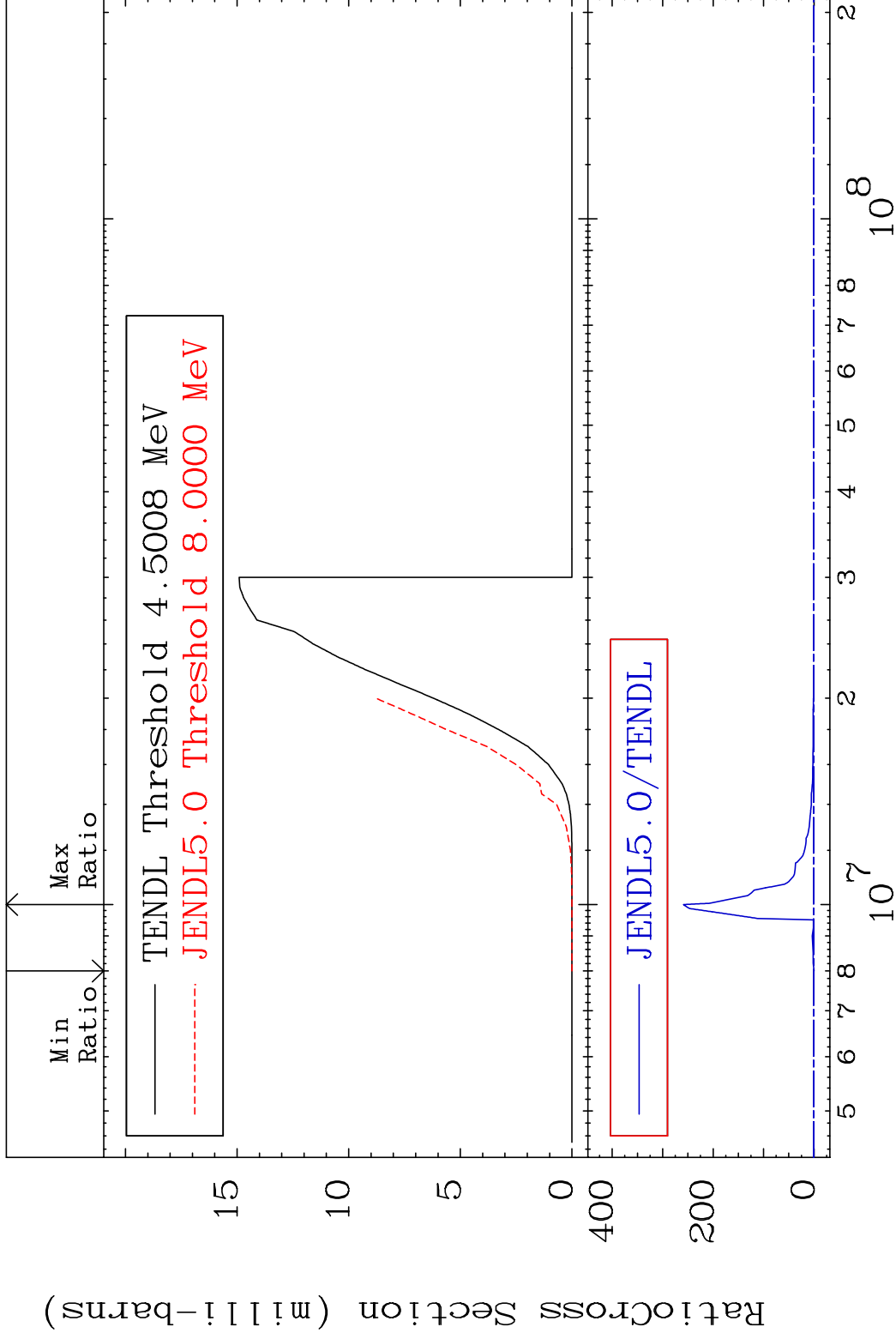
72-Hf-176

MAT 7231

(n,d)

72-Hf-176

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

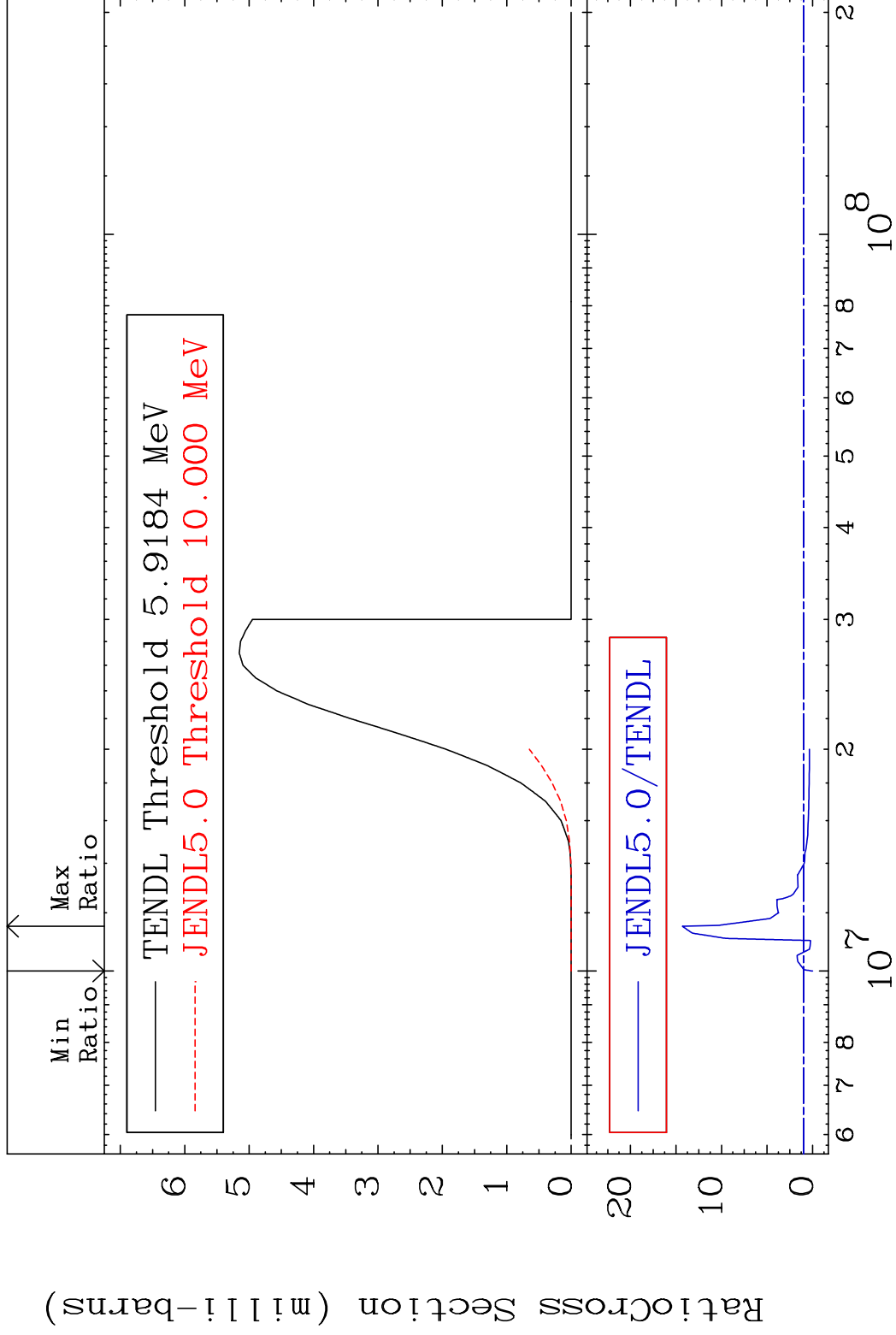
72-Hf-176

MAT 7231

(n, t)

72-Hf-176

Cross Section -100.0 To 1330. %



43

Incident Energy (eV)

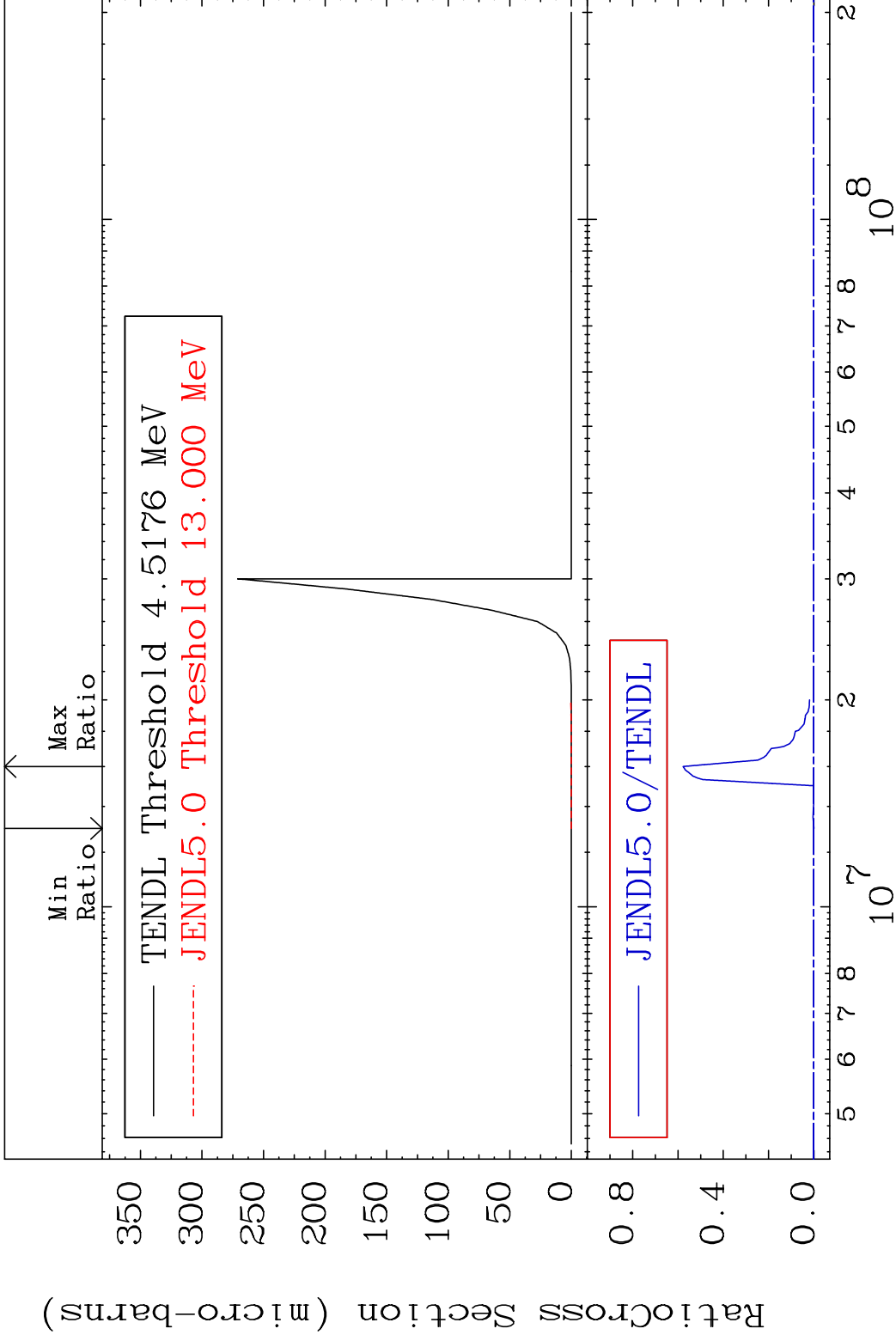
72-Hf-176

MAT 7231

(n, He-3)

72-Hf-176

Cross Section -100.0 To 9999. %

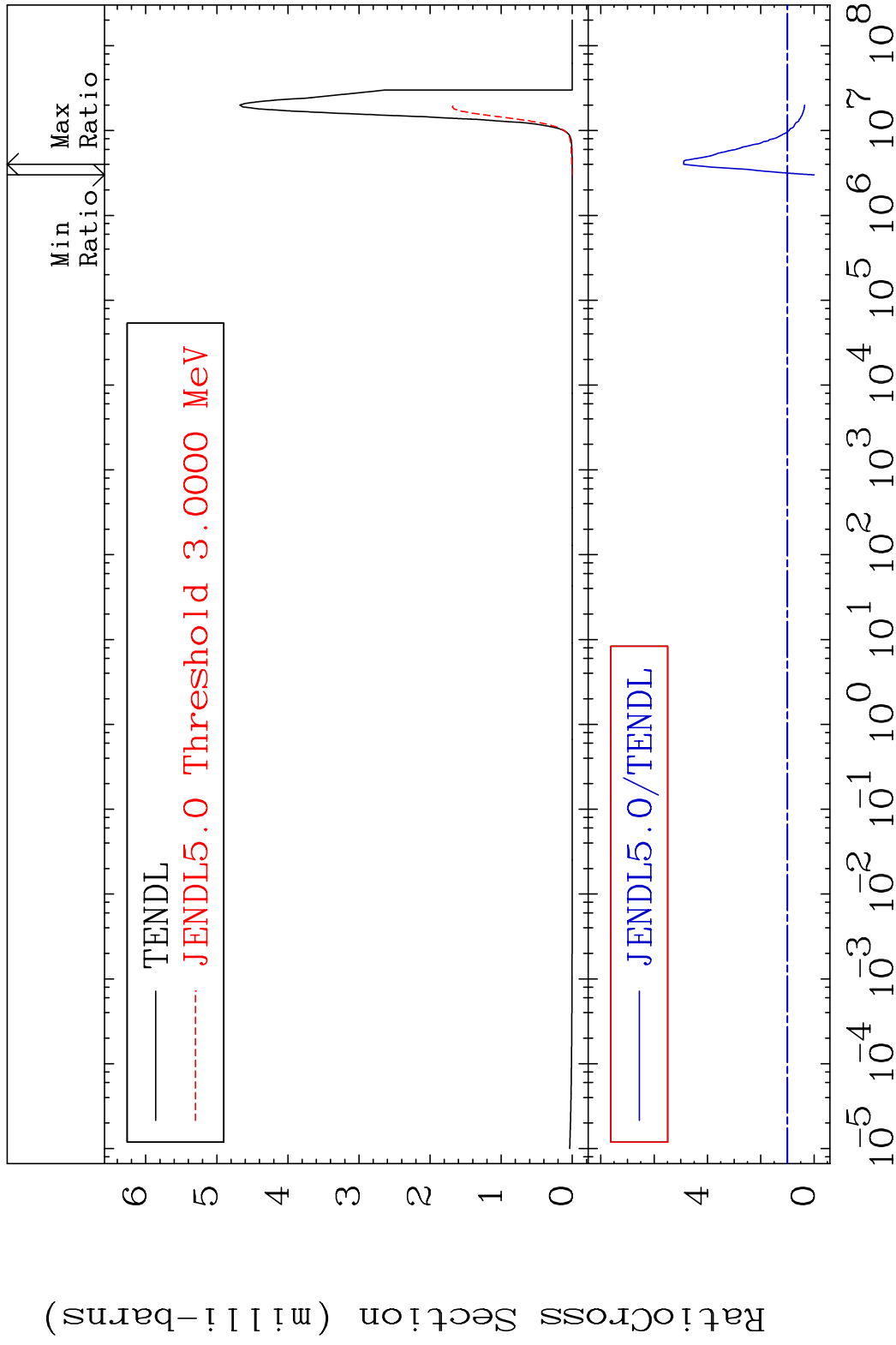


MAT 7231

(n, α)

72-Hf-176

Cross Section -100.0 To 389.2 %



45

Incident Energy (eV)

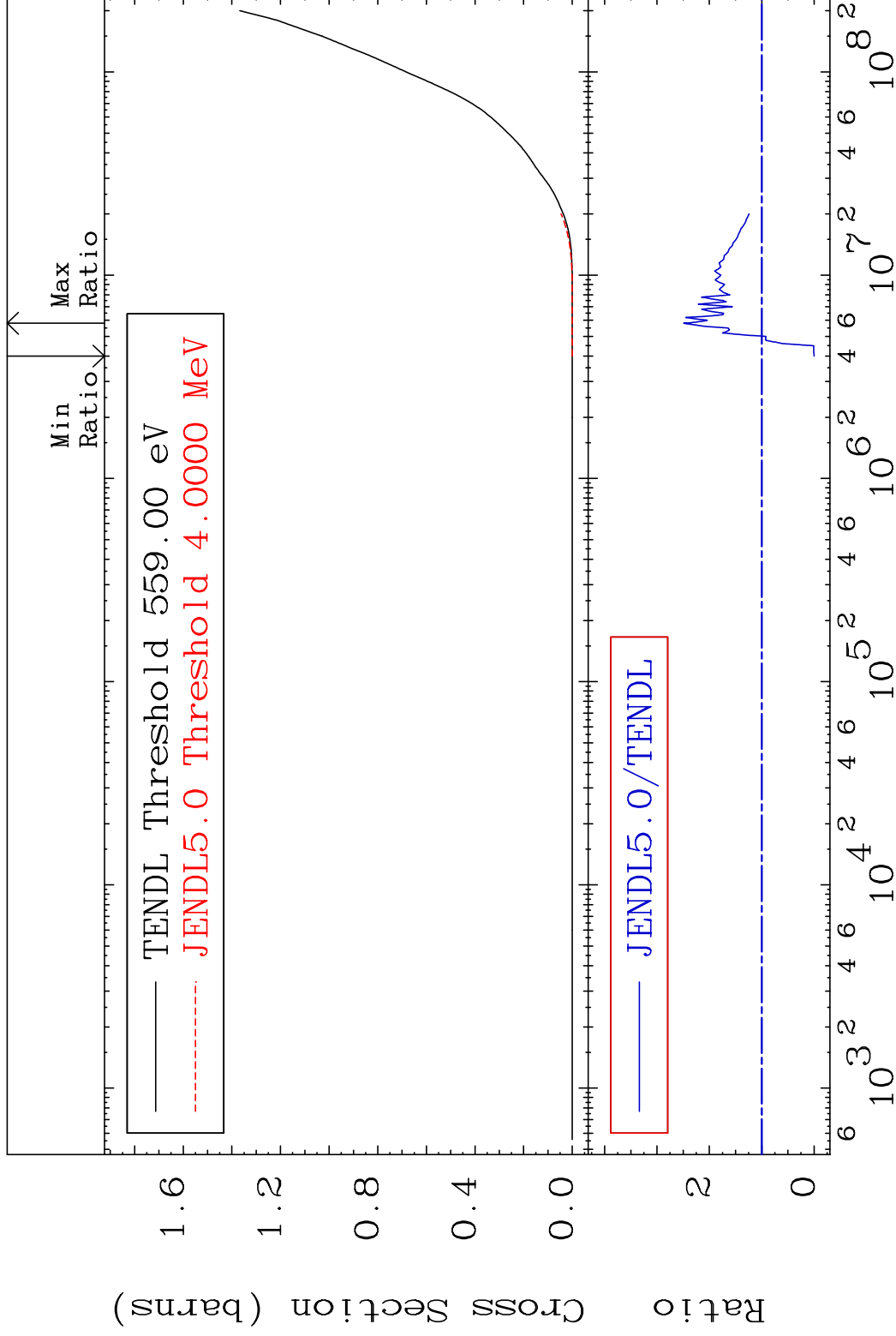
72-Hf-176

MAT 7231

Hydrogen Production

72-Hf-176

Cross Section -100.0 To 149.1 %

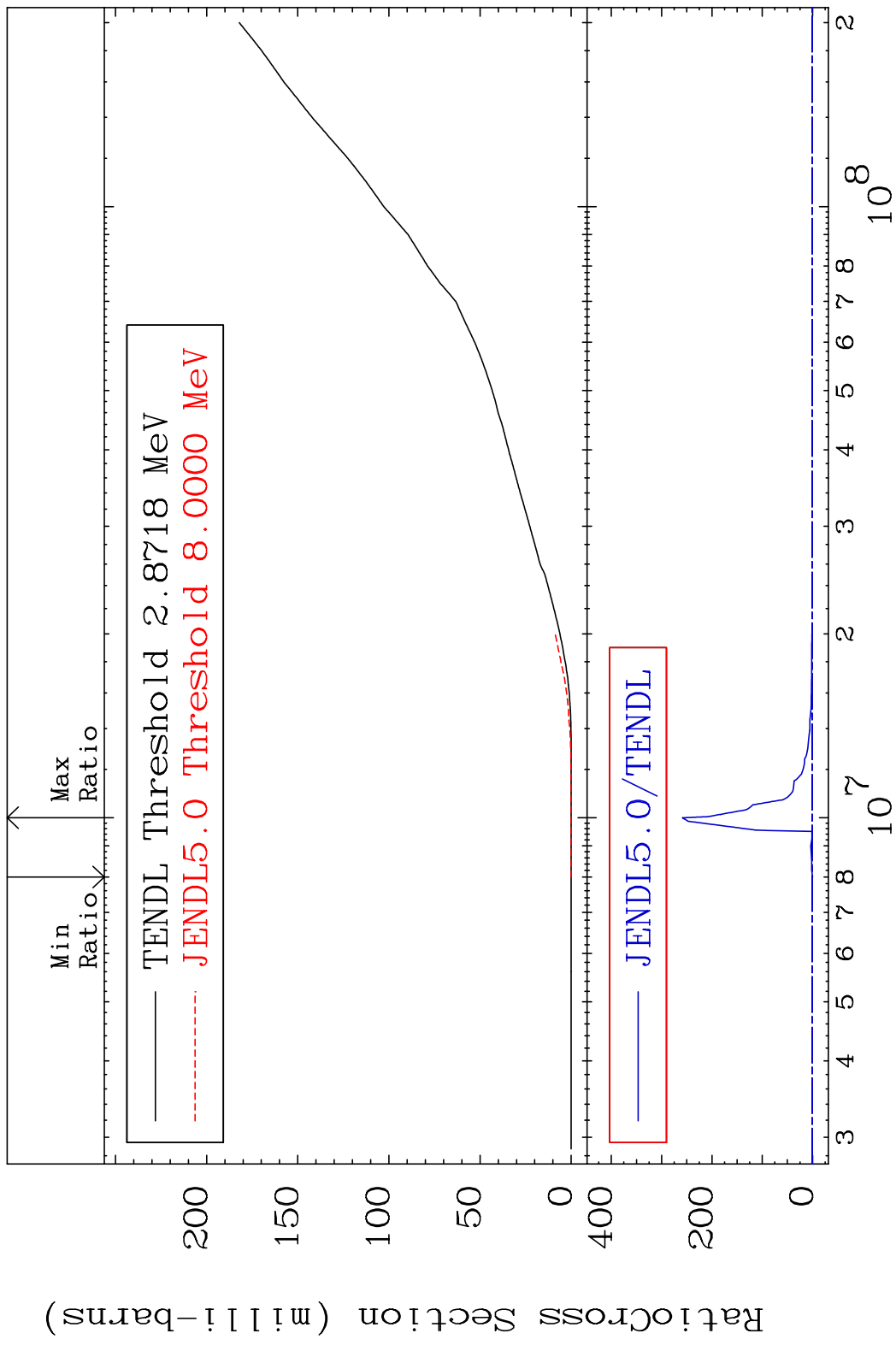


46

Incident Energy (eV)

72-Hf-176

MAT 7231 Deuterium Production 72-Hf-176
 Cross Section -100.0 To 9999. %



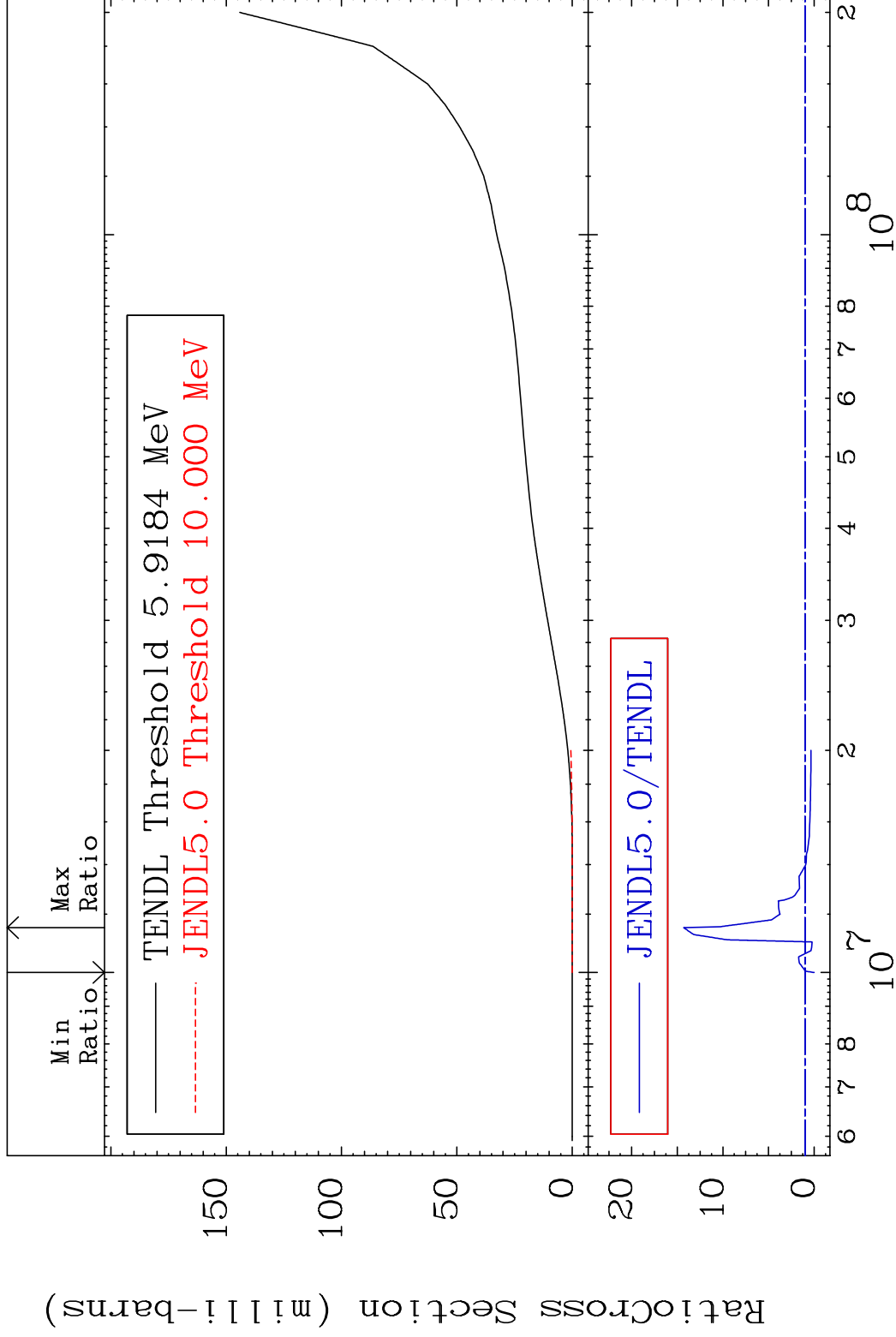
47 Incident Energy (eV) 72-Hf-176

MAT 7231

Tritium Production

72-Hf-176

Cross Section -100.0 To 1330. %



48

Incident Energy (eV)

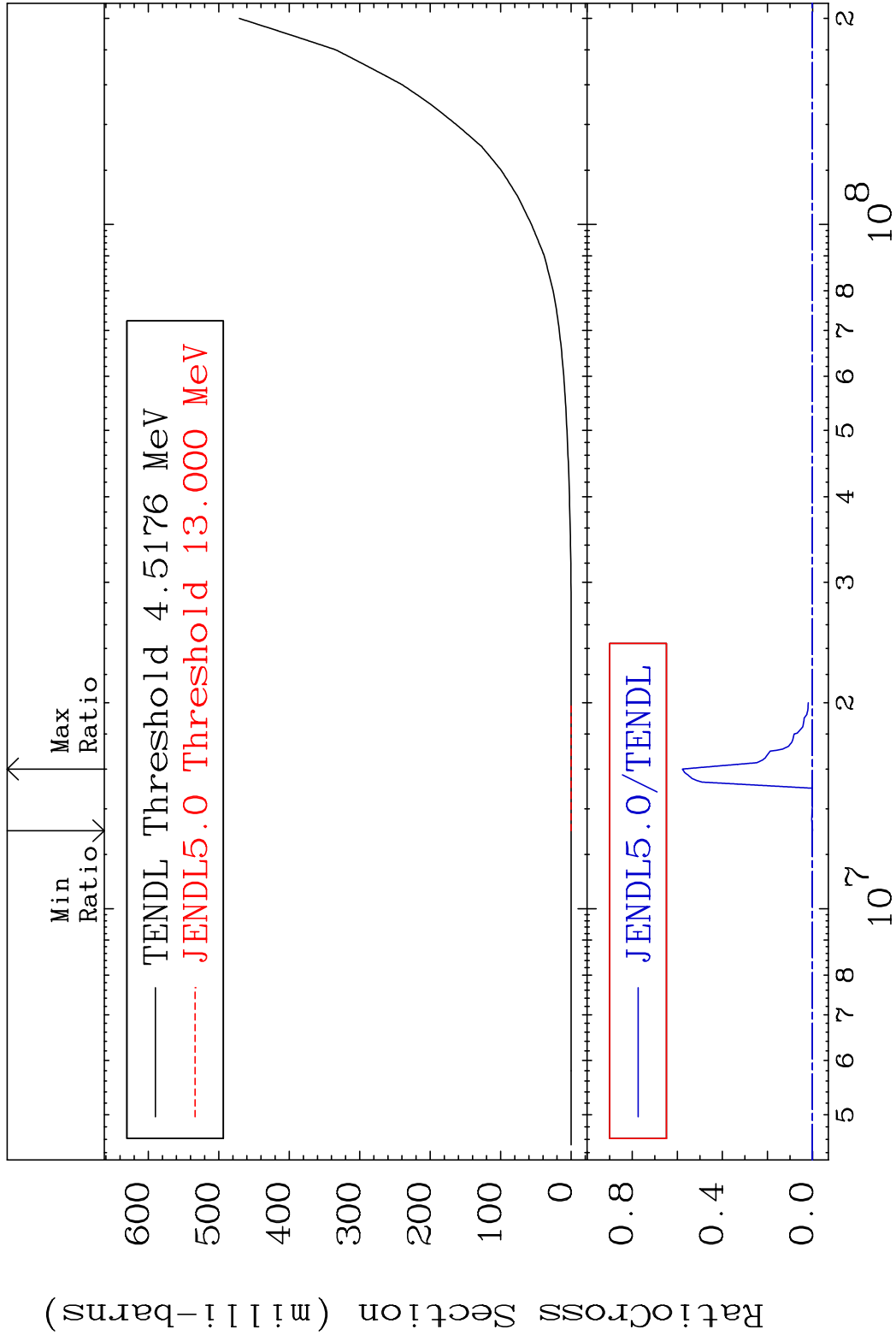
72-Hf-176

MAT 7231

He-3 Production

72-Hf-176

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

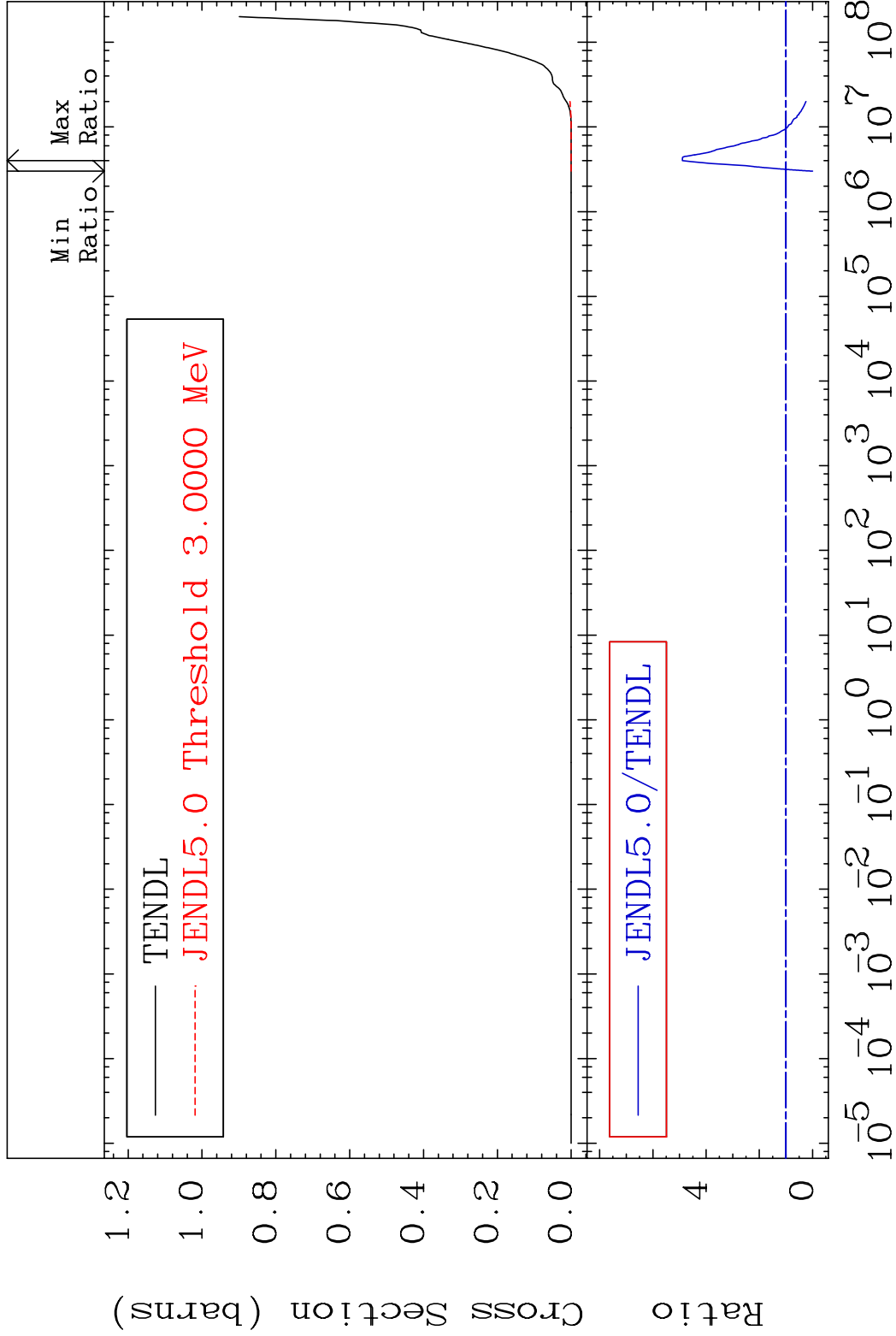
72-Hf-176

MAT 7231

He-4 Production

72-Hf-176

Cross Section -100.0 To 389.2 %

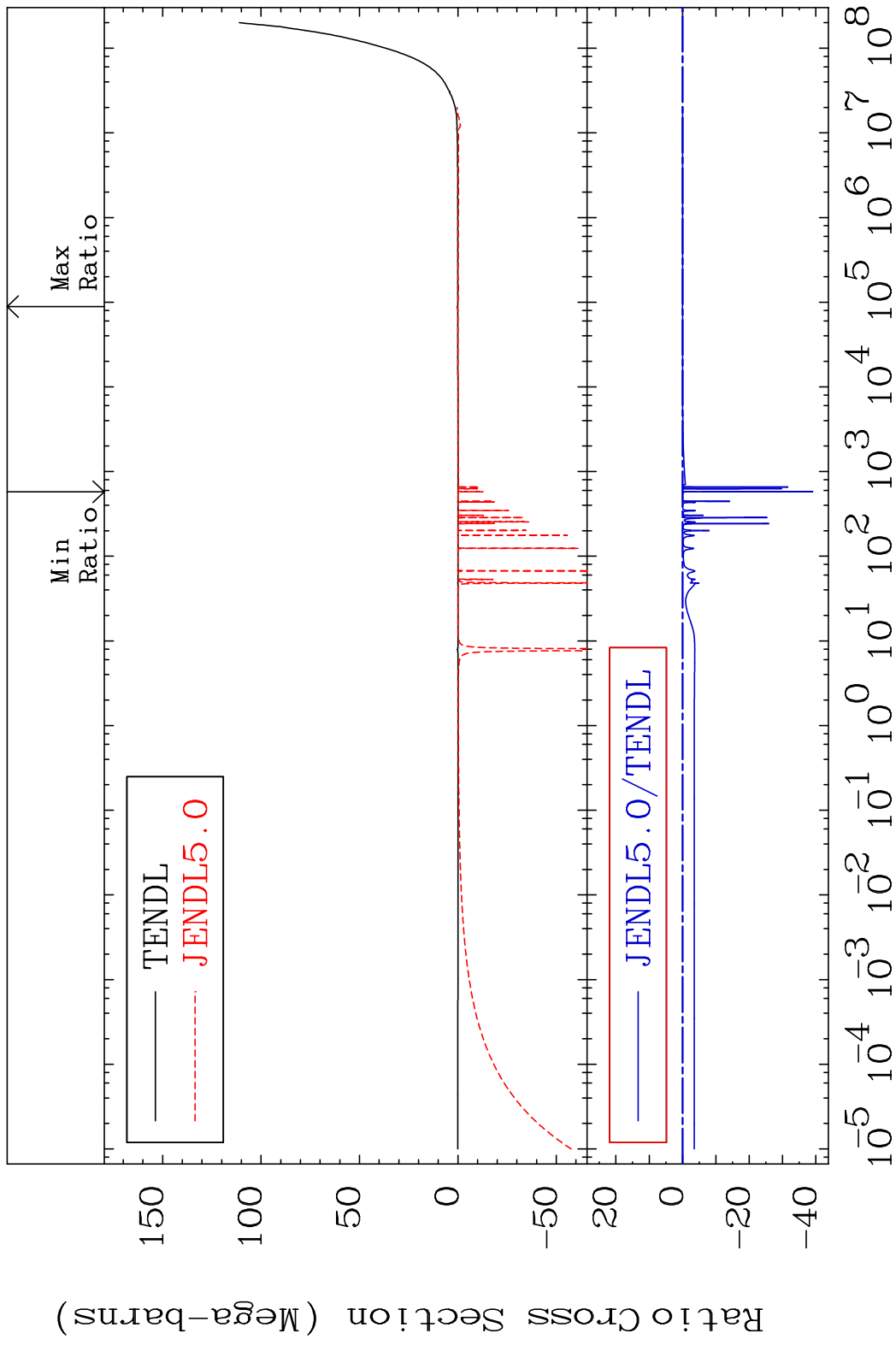


50

Incident Energy (eV)

72-Hf-176

MAT 7231 Kerma total (eV-barns) 72-Hf-176
 Cross Section -9999. To 5619. %

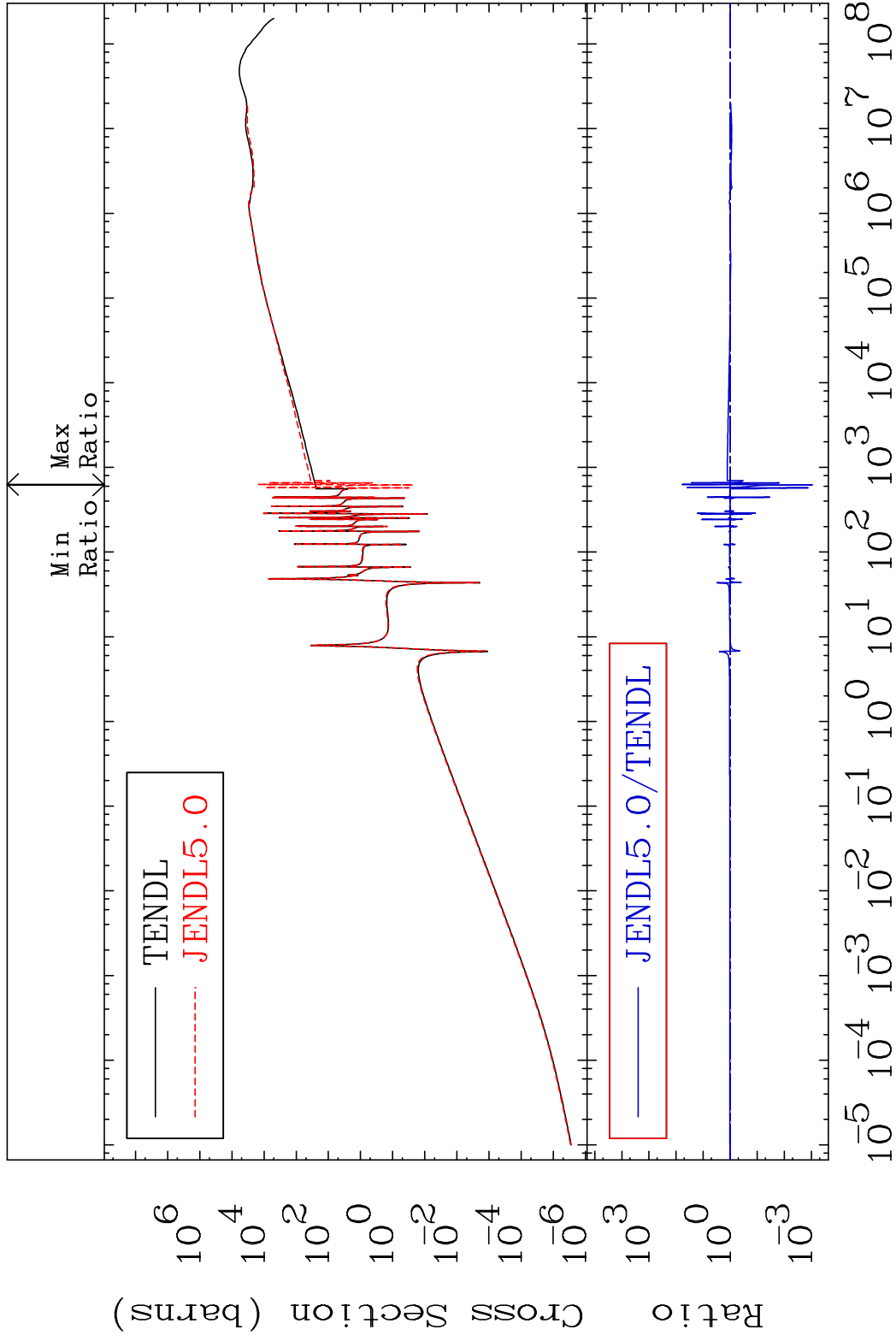


MAT 7231

Kerma elastic

72-Hf-176

Cross Section -99.91 To 5730. %

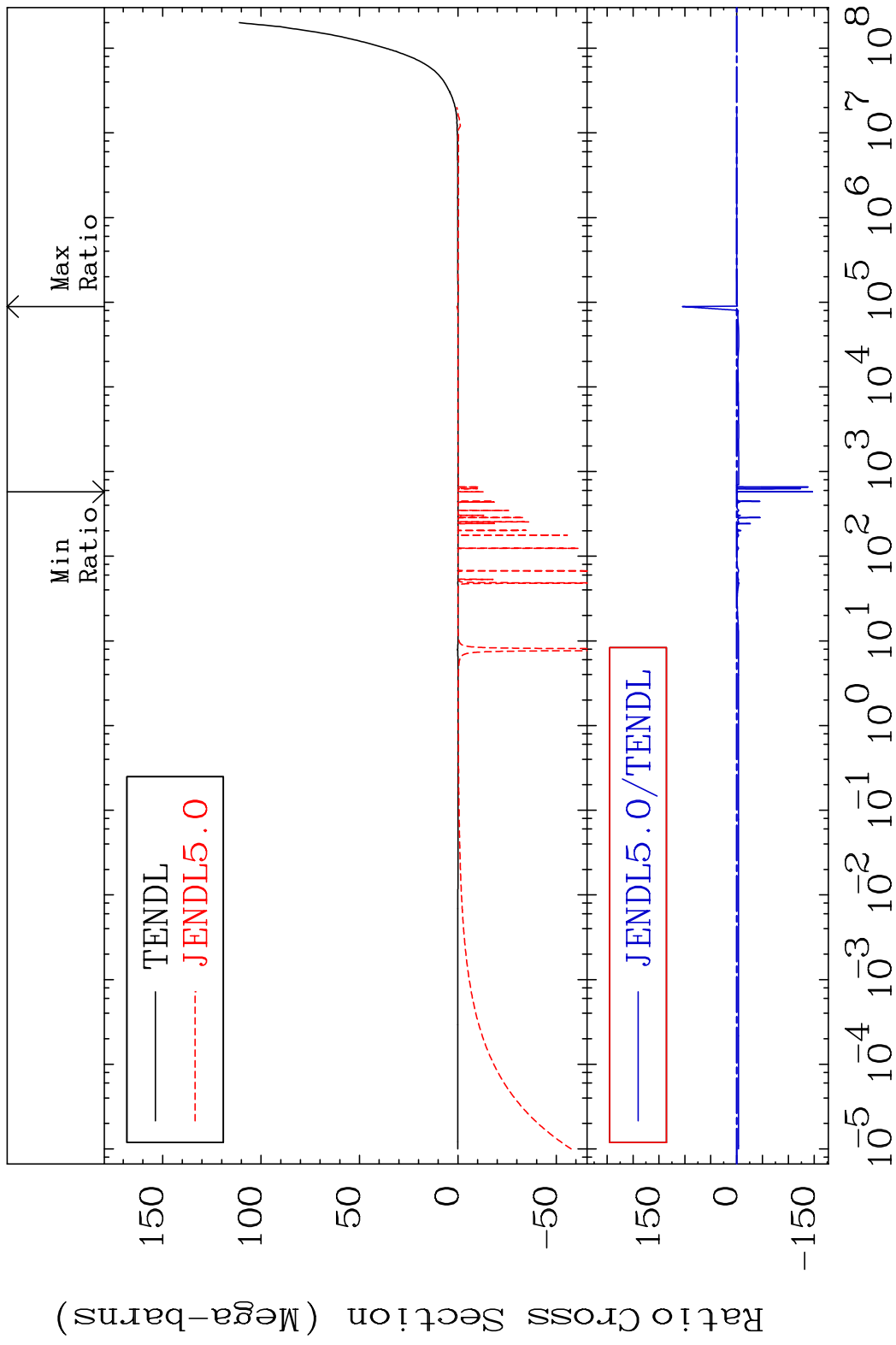


52

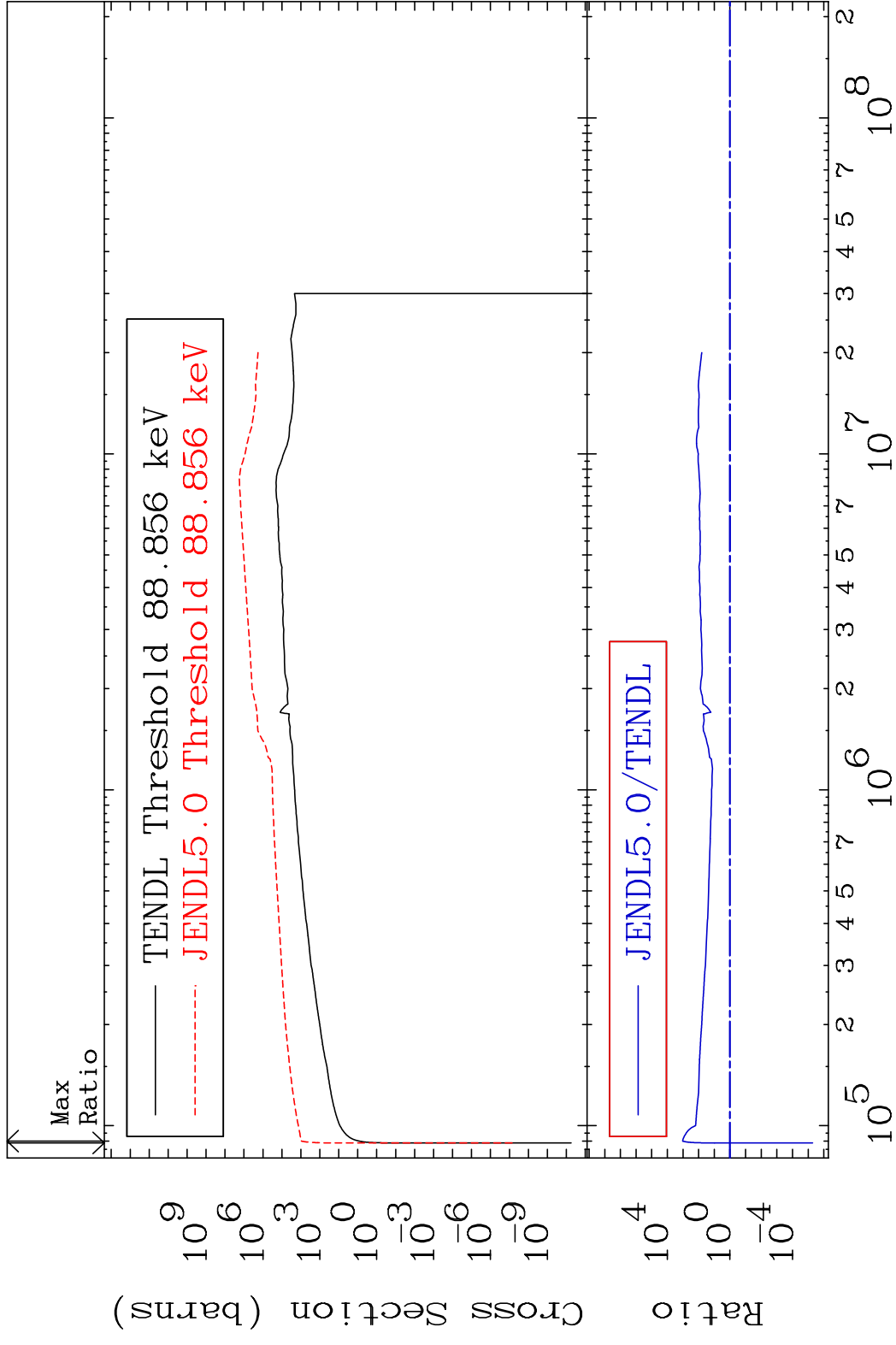
Incident Energy (eV)

72-Hf-176

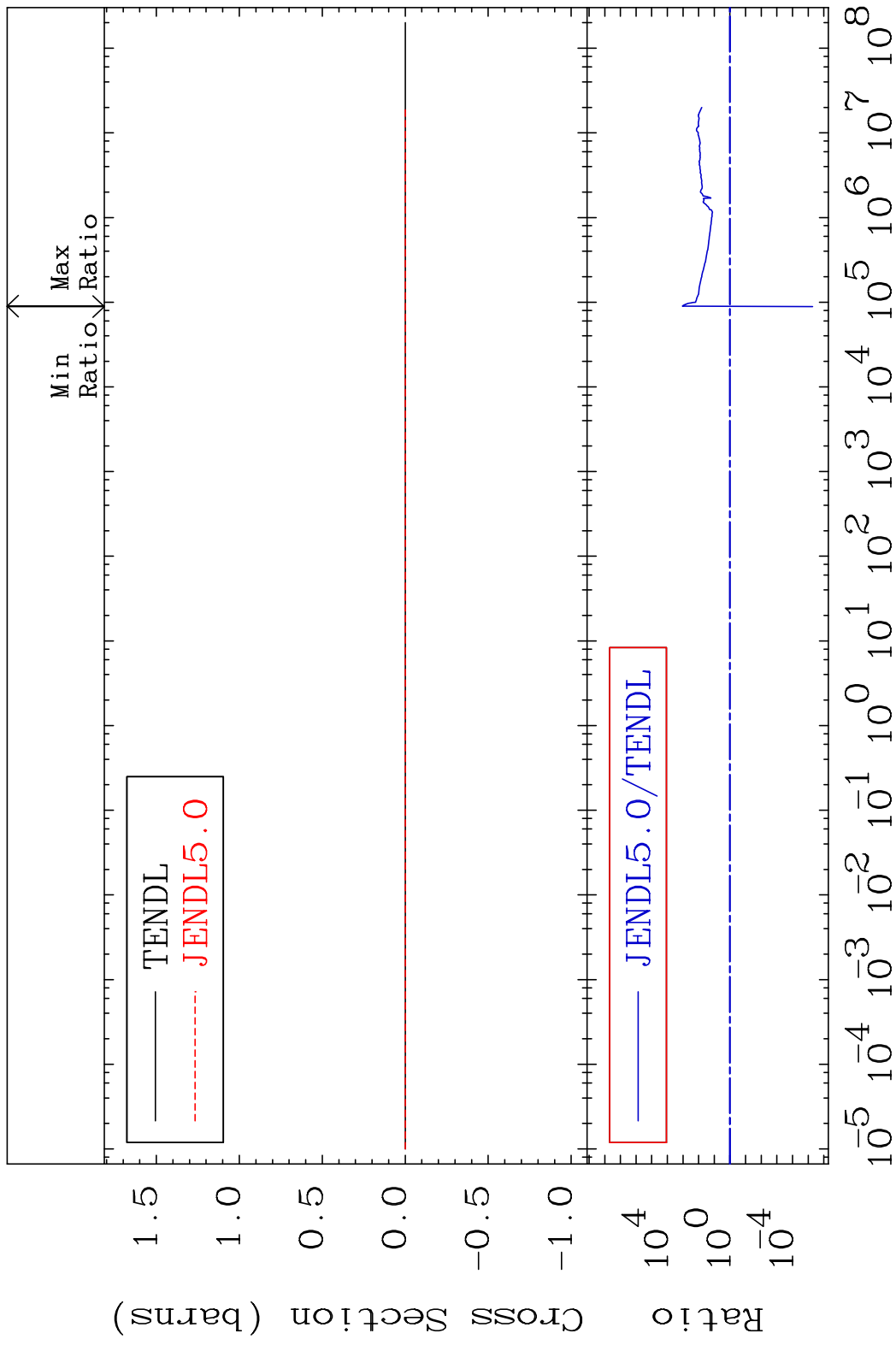
MAT 7231 Kerma non-elastic (all but mt2) 72-Hf-176
 Cross Section -9999. To 9999. %

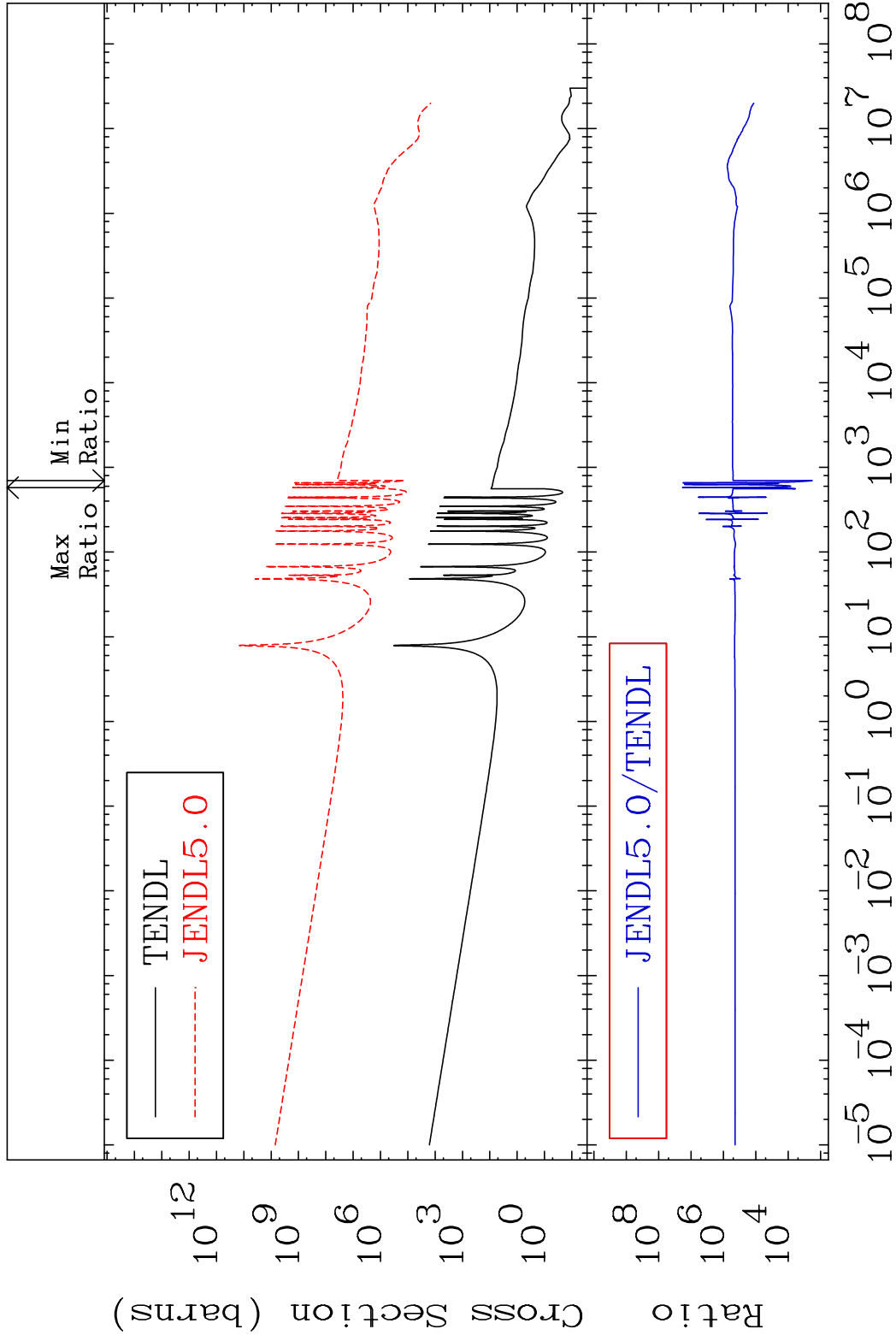


MAT 7231 Kerma inelastic (mt51-91) 72-Hf-176
 Cross Section -100.0 To 9999. %

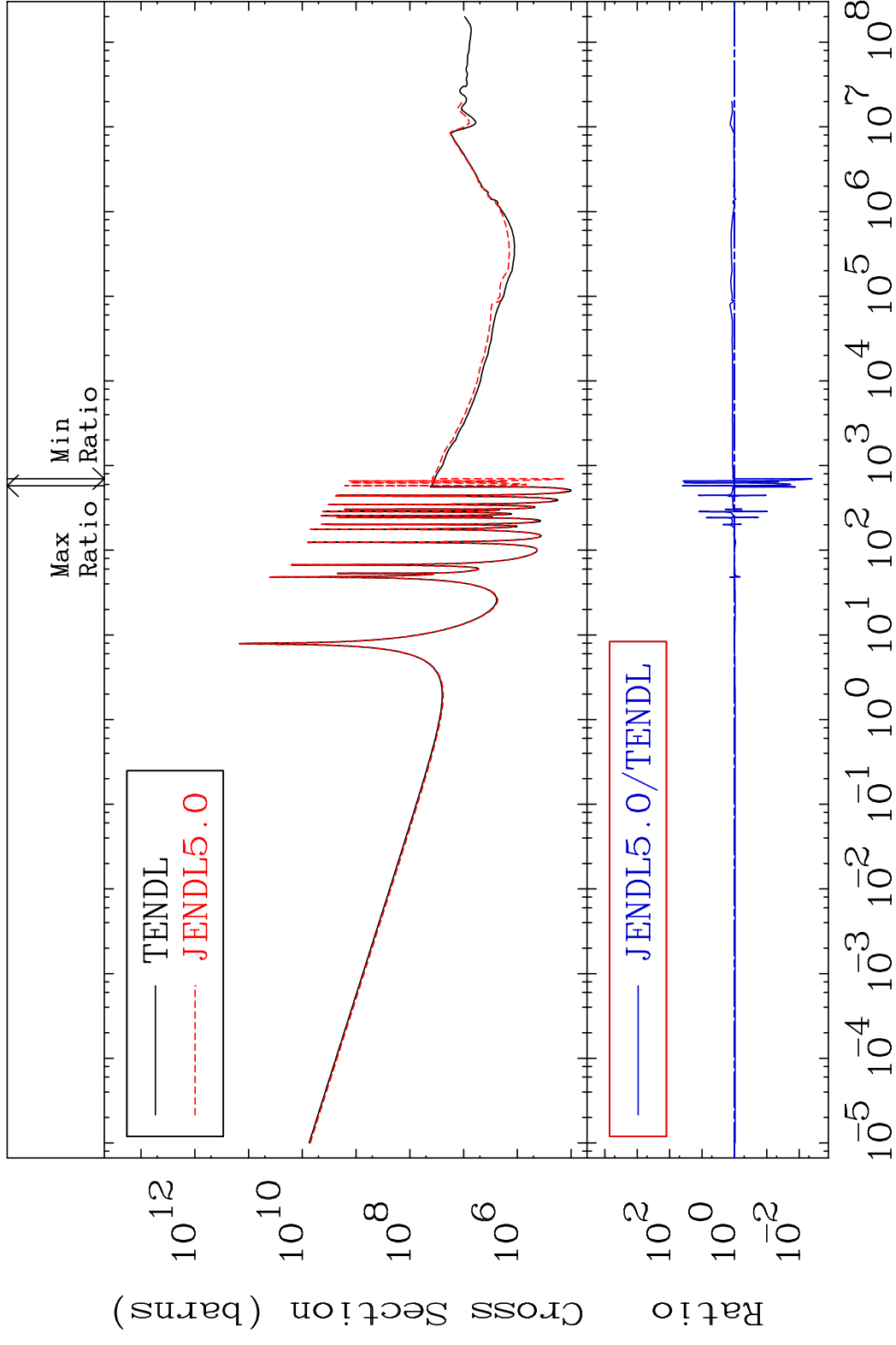


MAT 7231 Kerma fission (mt18 or mt19-20-21-38)72-Hf-176
 Cross Section -100.0 To 9999. %

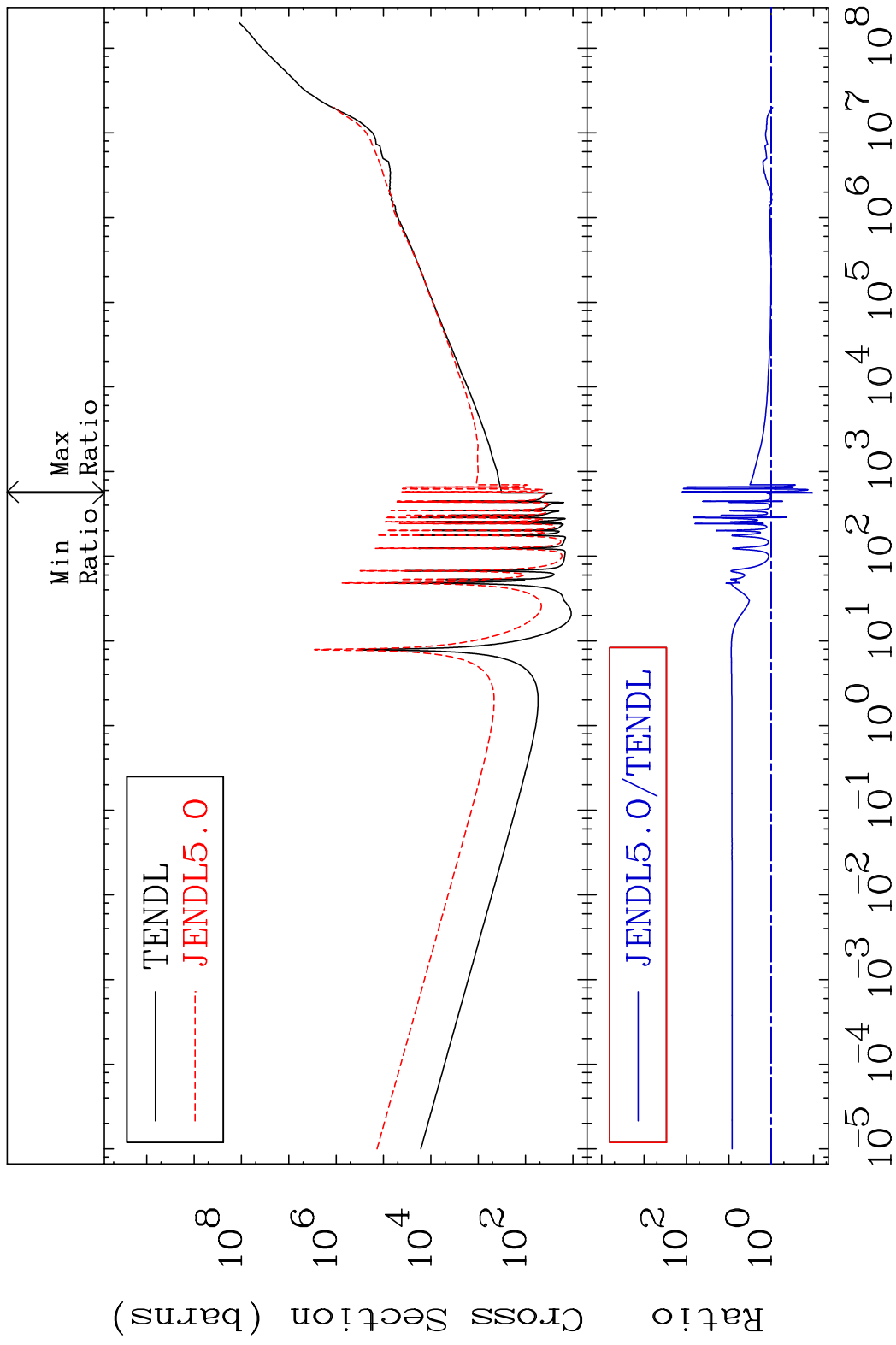




MAT 7231 Total photon (eV-barns) 72-Hf-176
 Cross Section -99.61 To 3960. %



MAT 7231 Total kinematic kerma (high limit) 72-Hf-176
Cross Section -89.46 To 9999. %

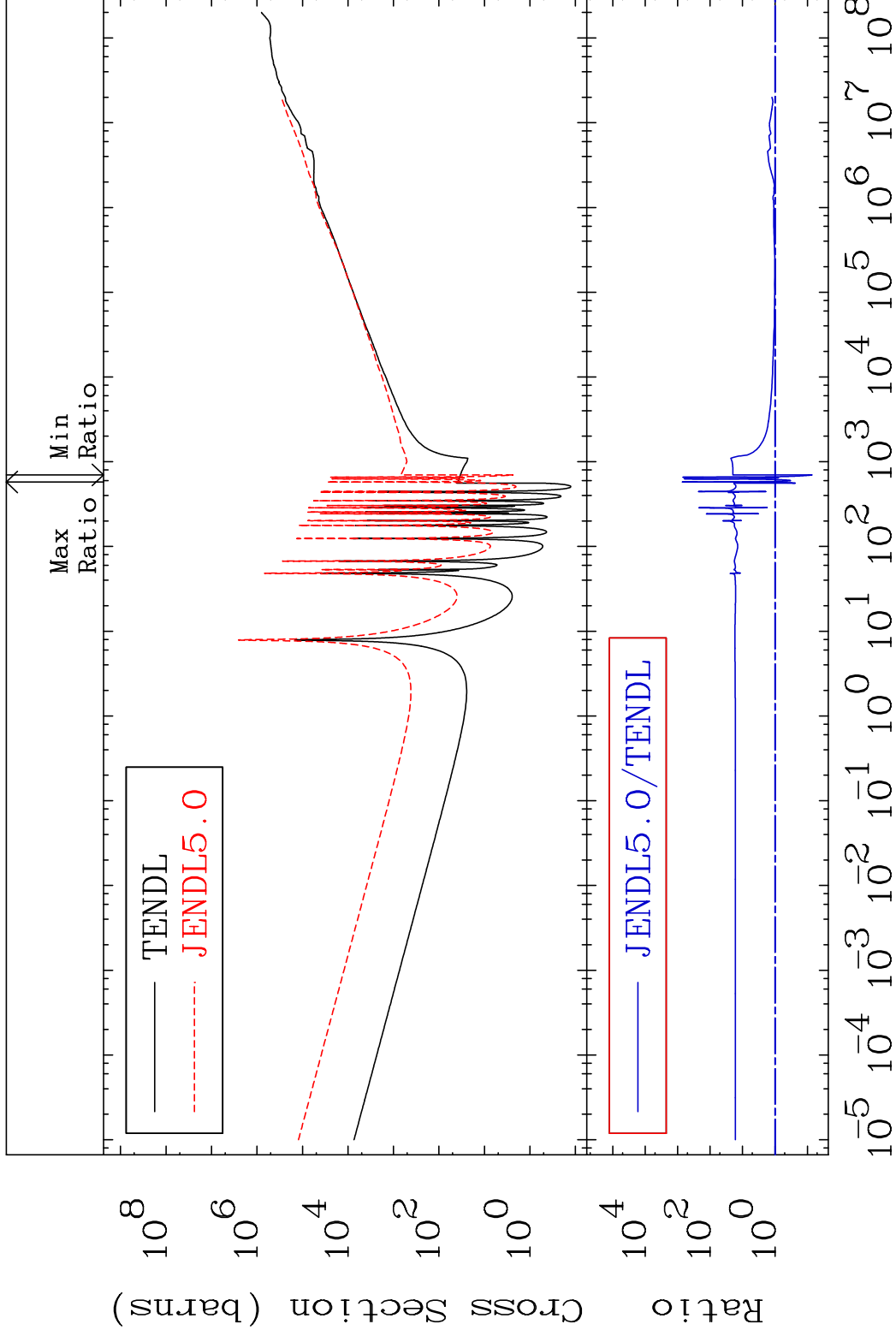


MAT 7231

Dpa total (eV-barns)

72-Hf-176

Cross Section -93.01 To 9999. %



59

Incident Energy (eV)

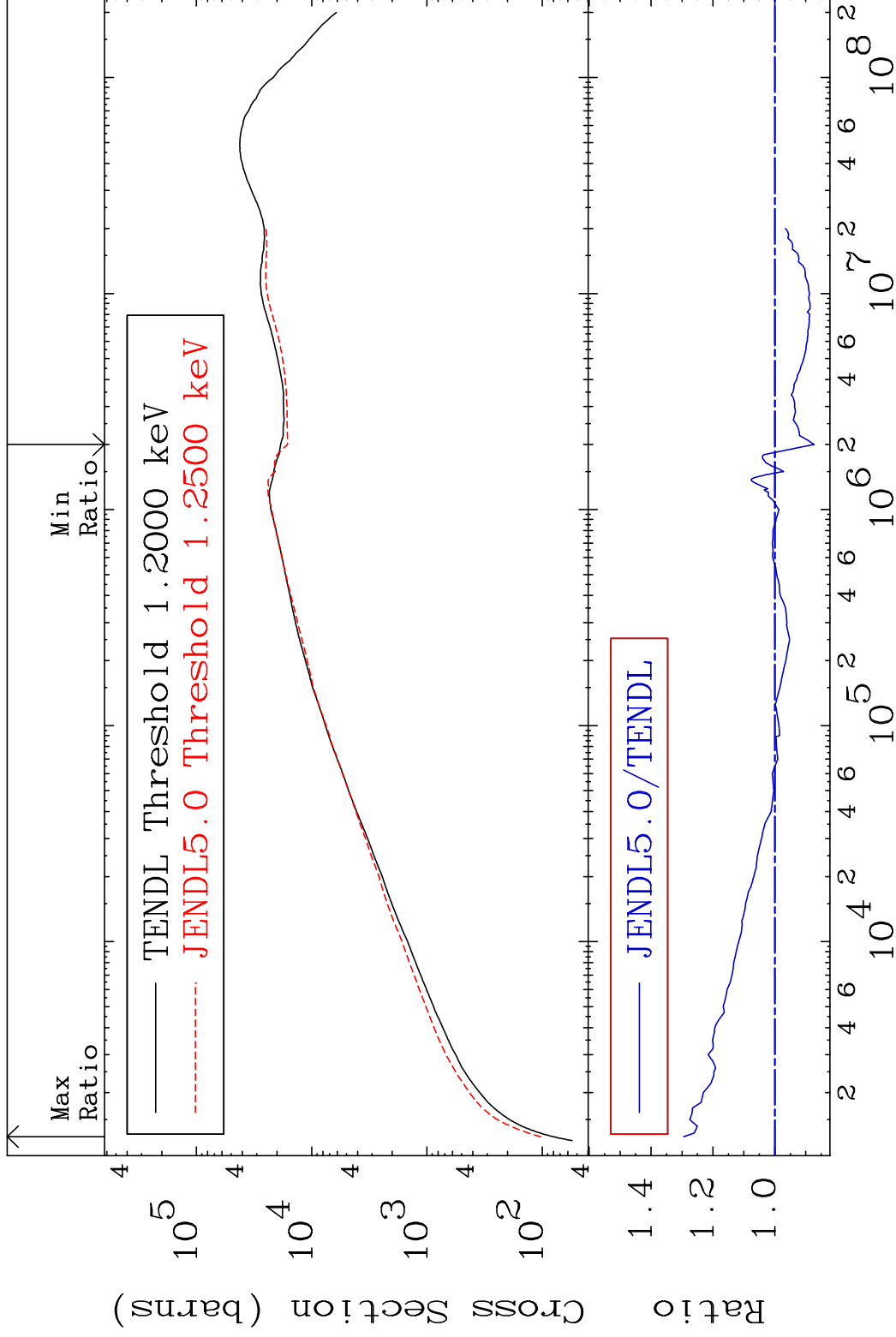
72-Hf-176

MAT 7231

Dpa elastic (mt2)

72-Hf-176

Cross Section -12.69 To 29.47 %

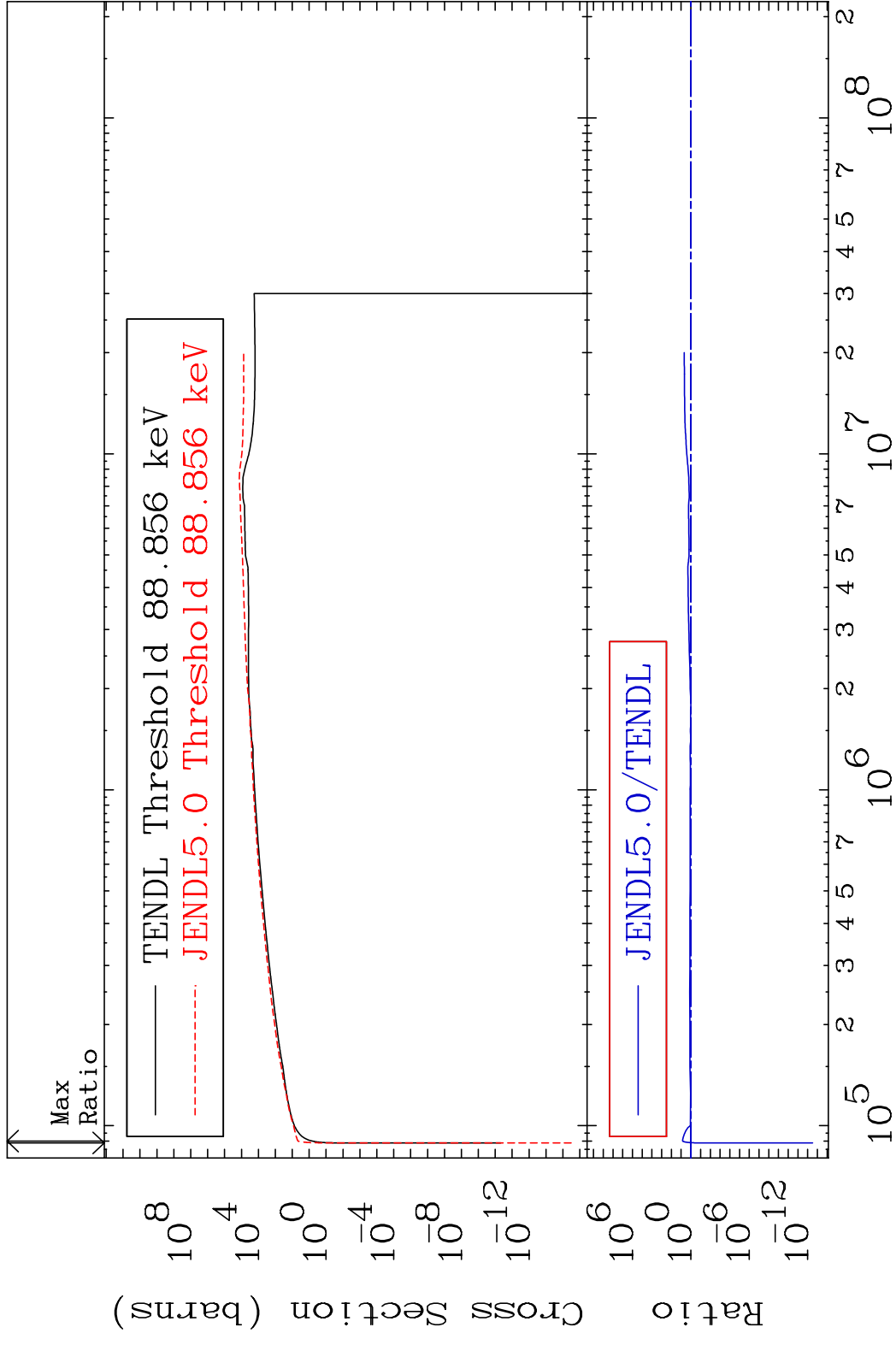


60

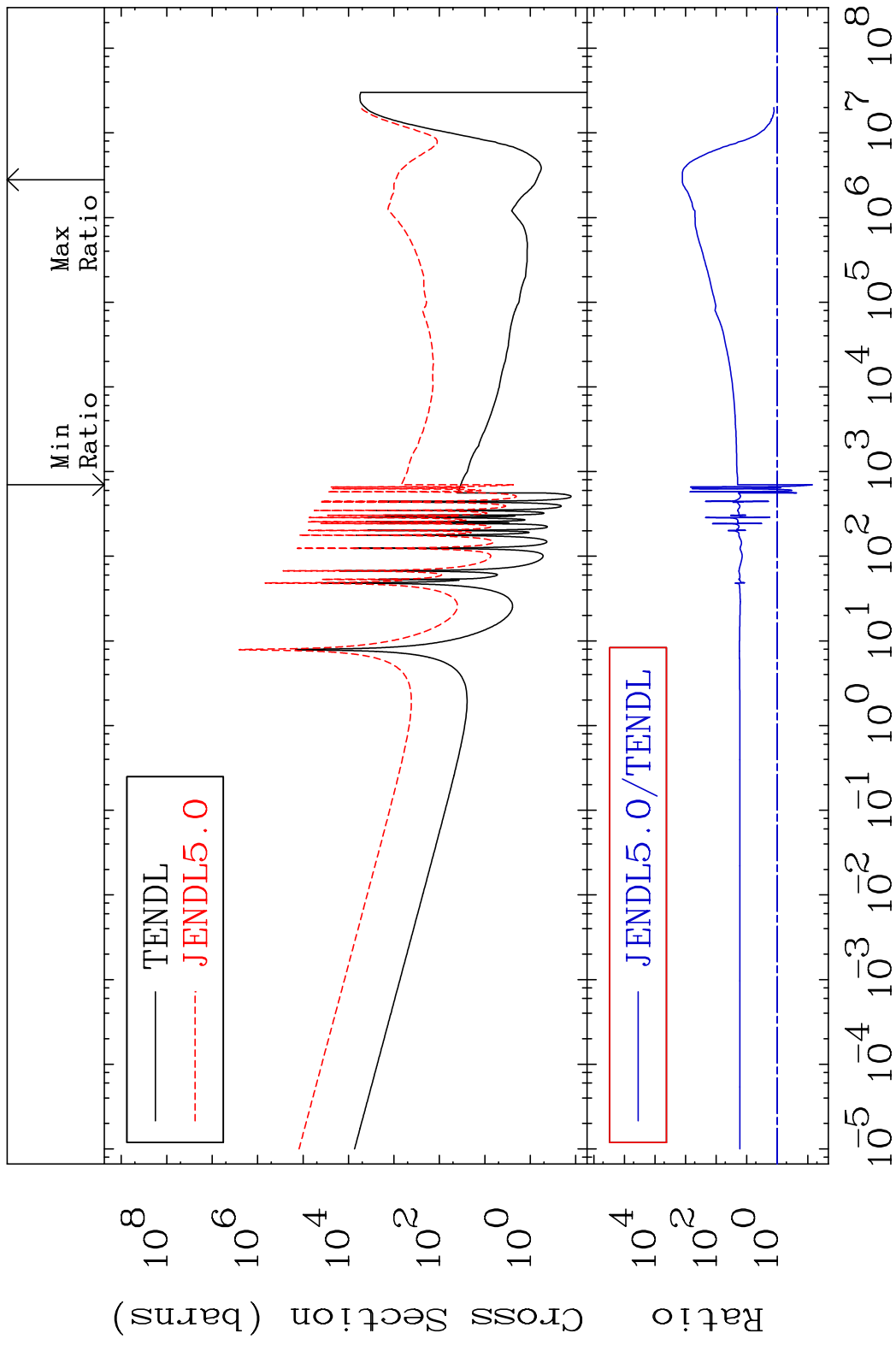
Incident Energy (eV)

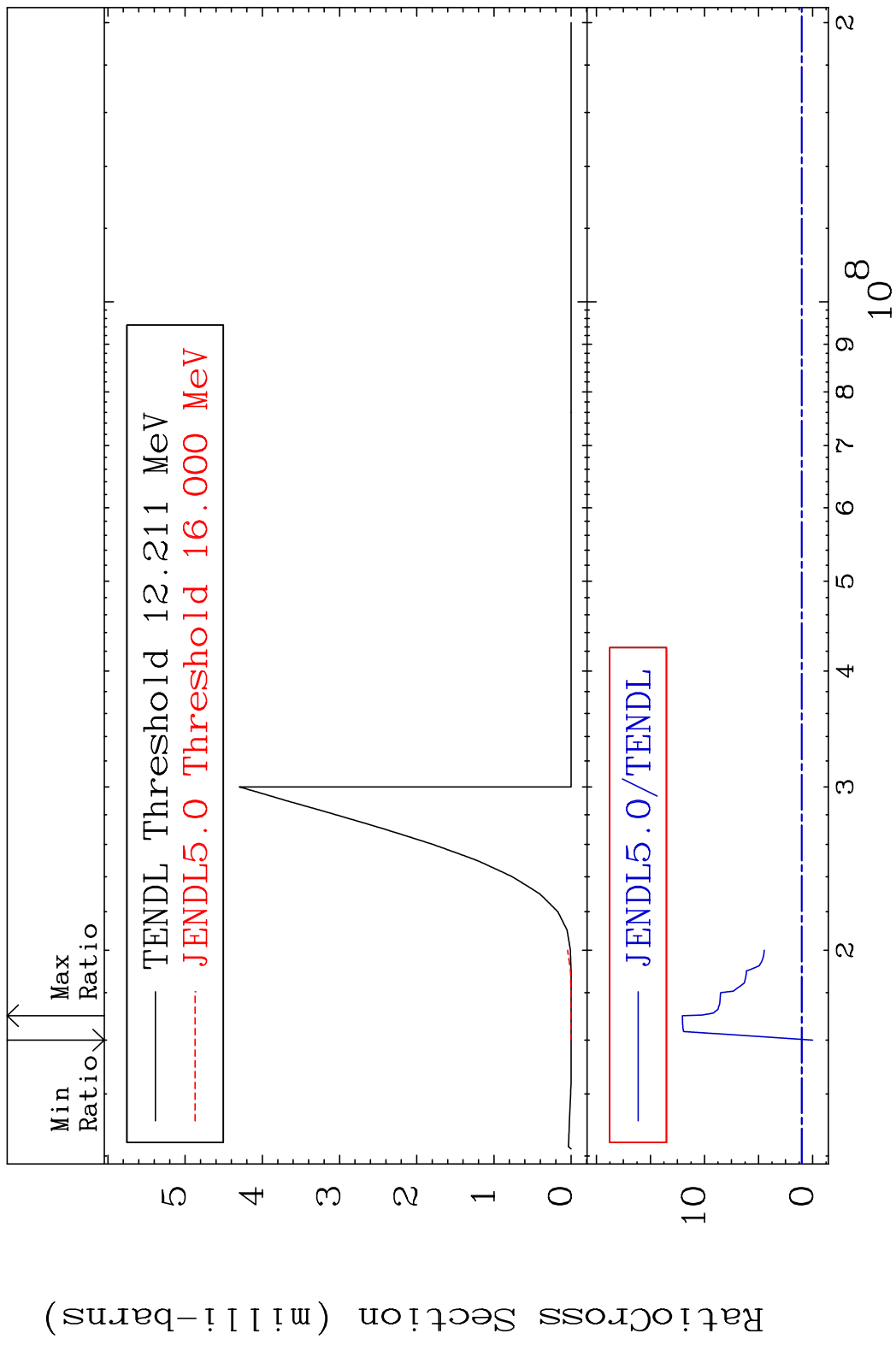
72-Hf-176

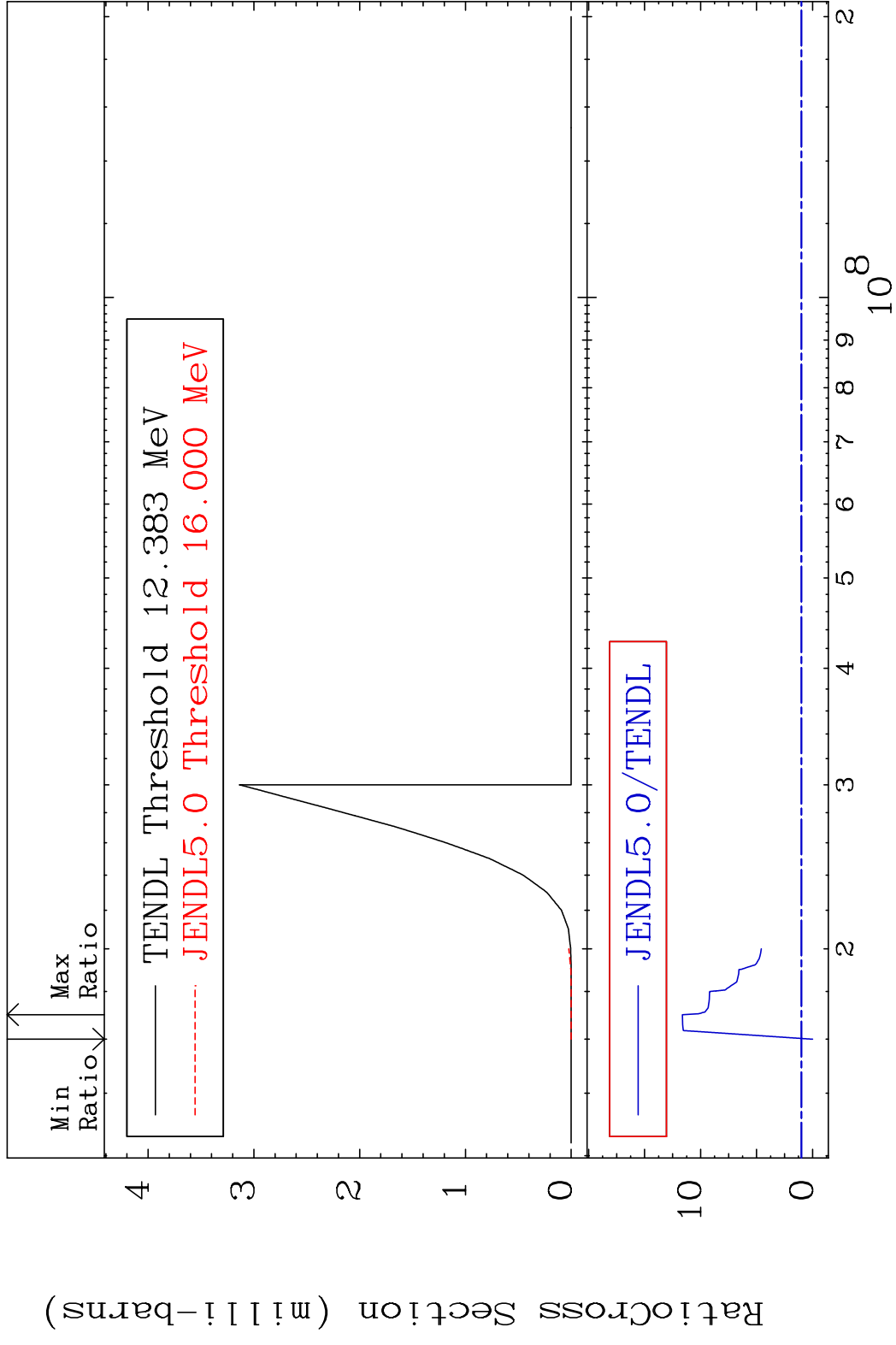
MAT 7231 Dpa inelastic (mt51-91) 72-Hf-176
 Cross Section -100.0 To 649.1 %

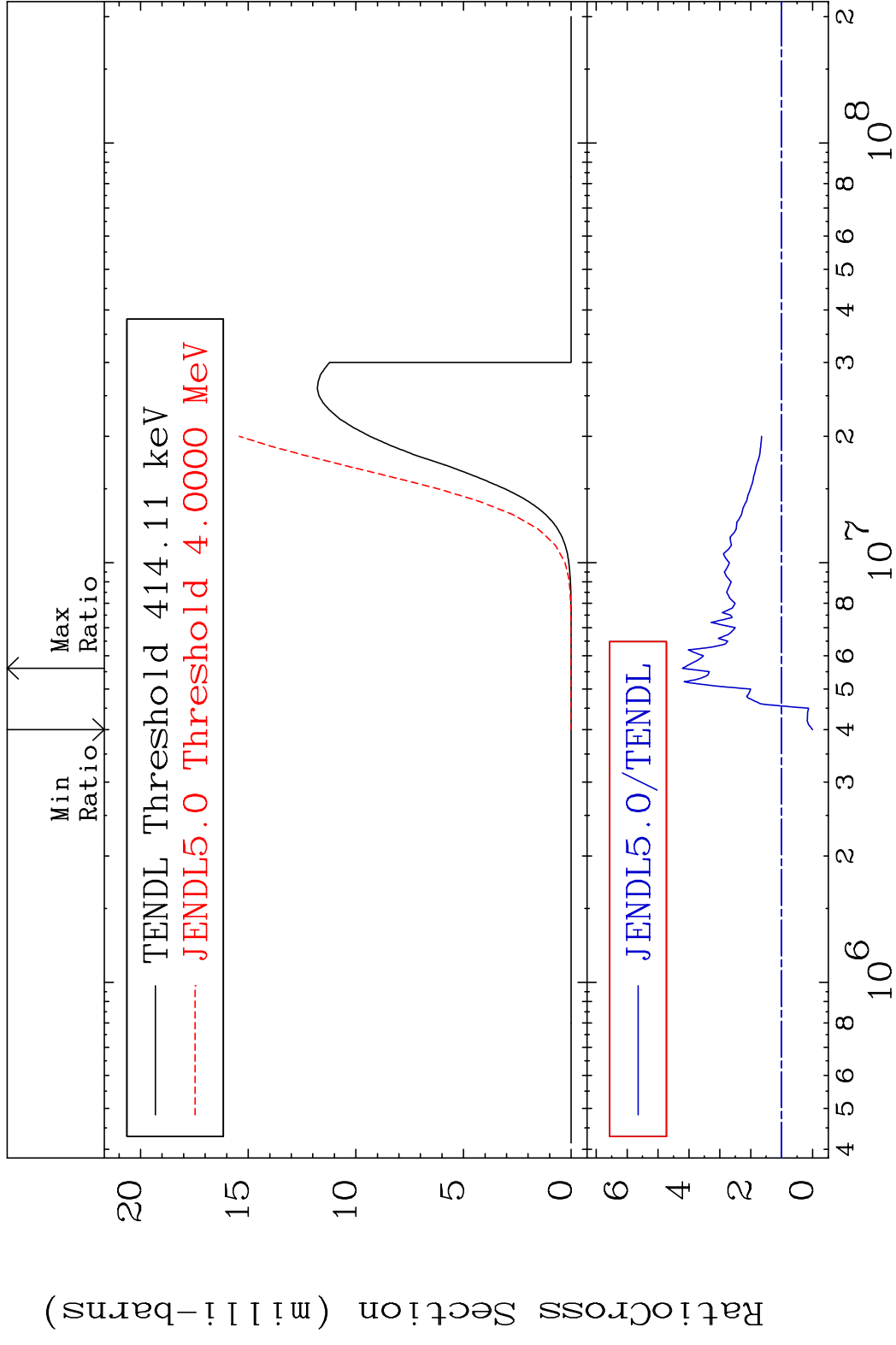


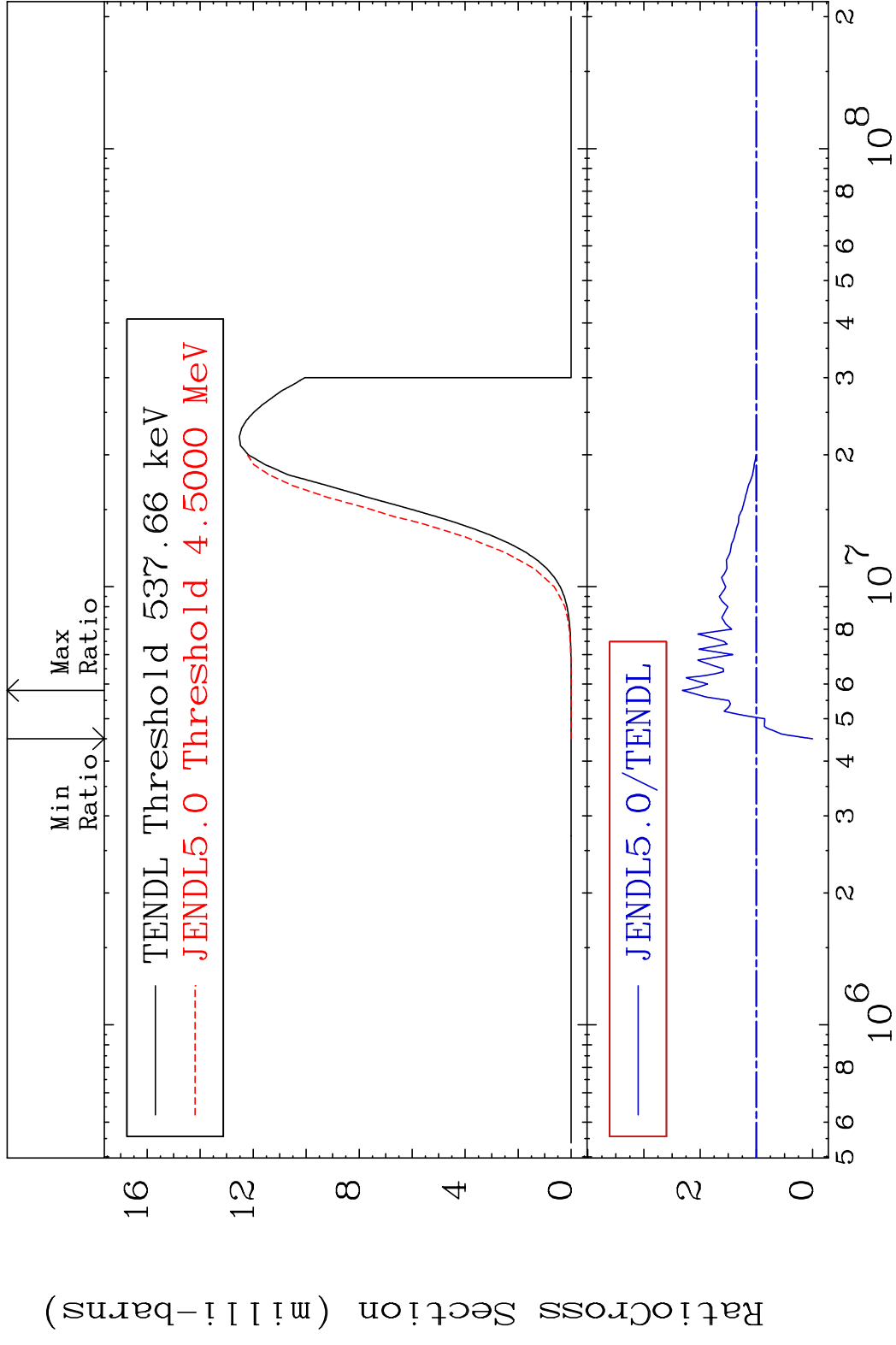
MAT 7231 Dpa disappearance (mt102 -120) 72-Hf-176
 Cross Section -93.01 To 9999. %

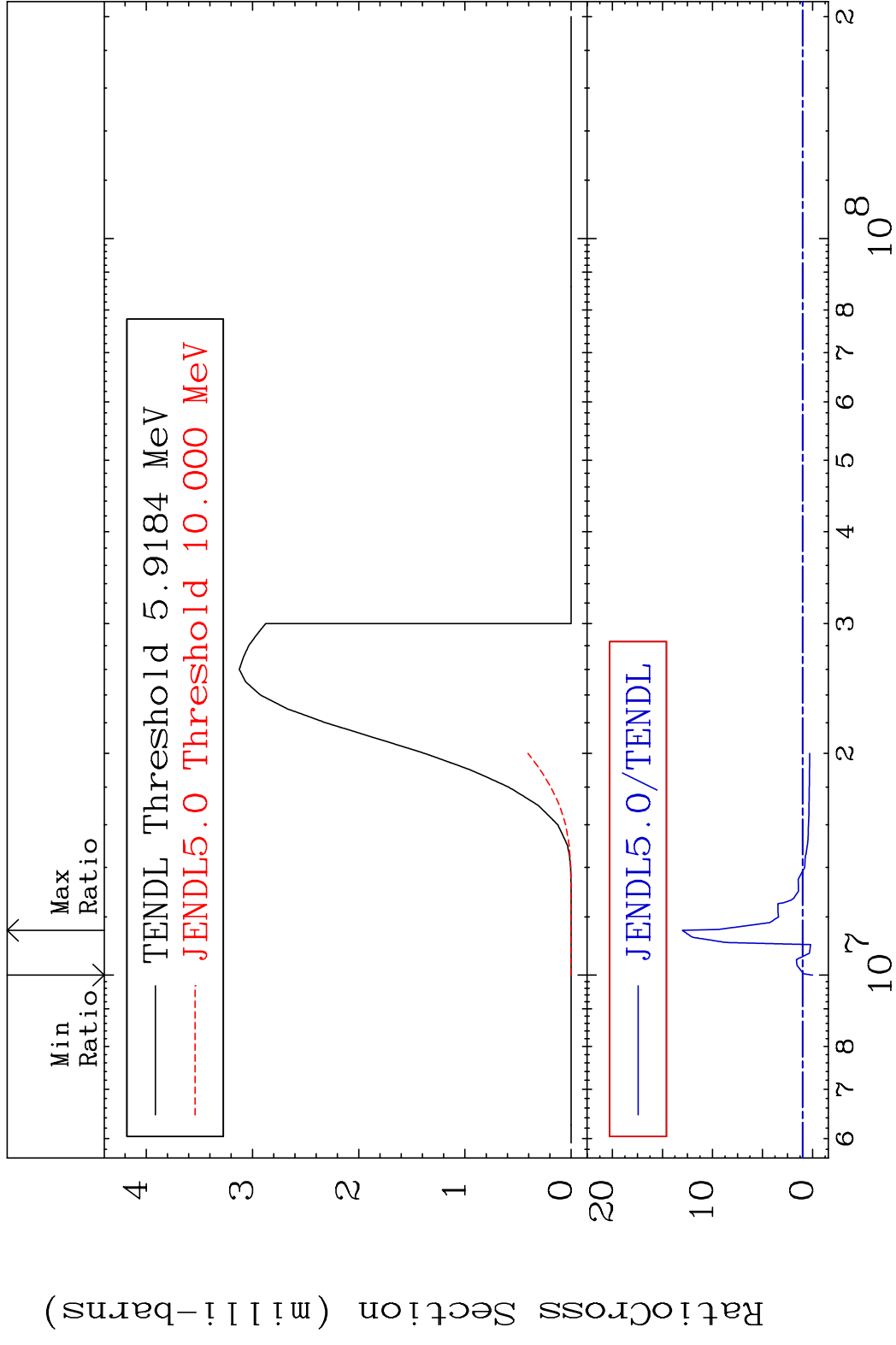


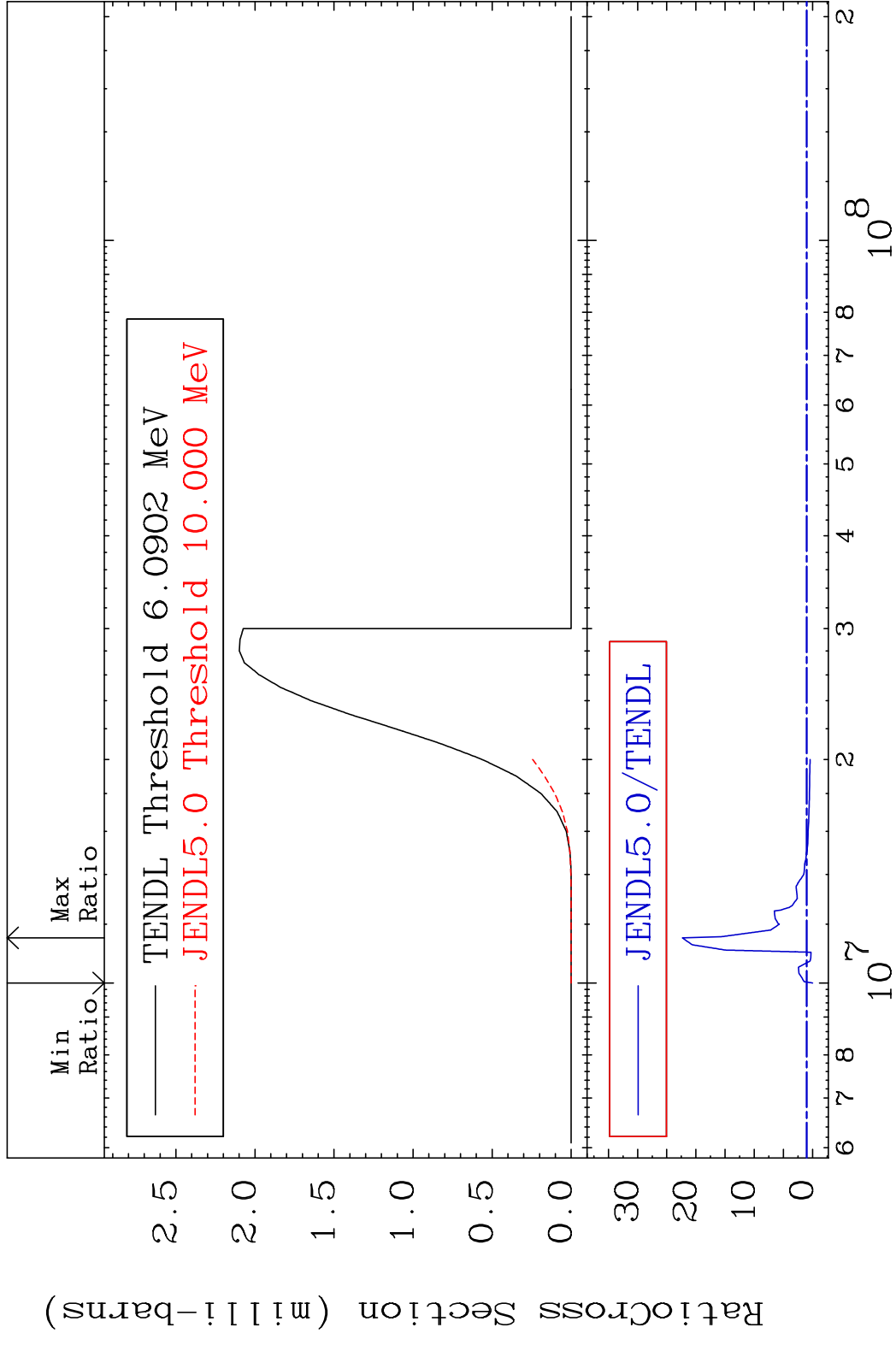


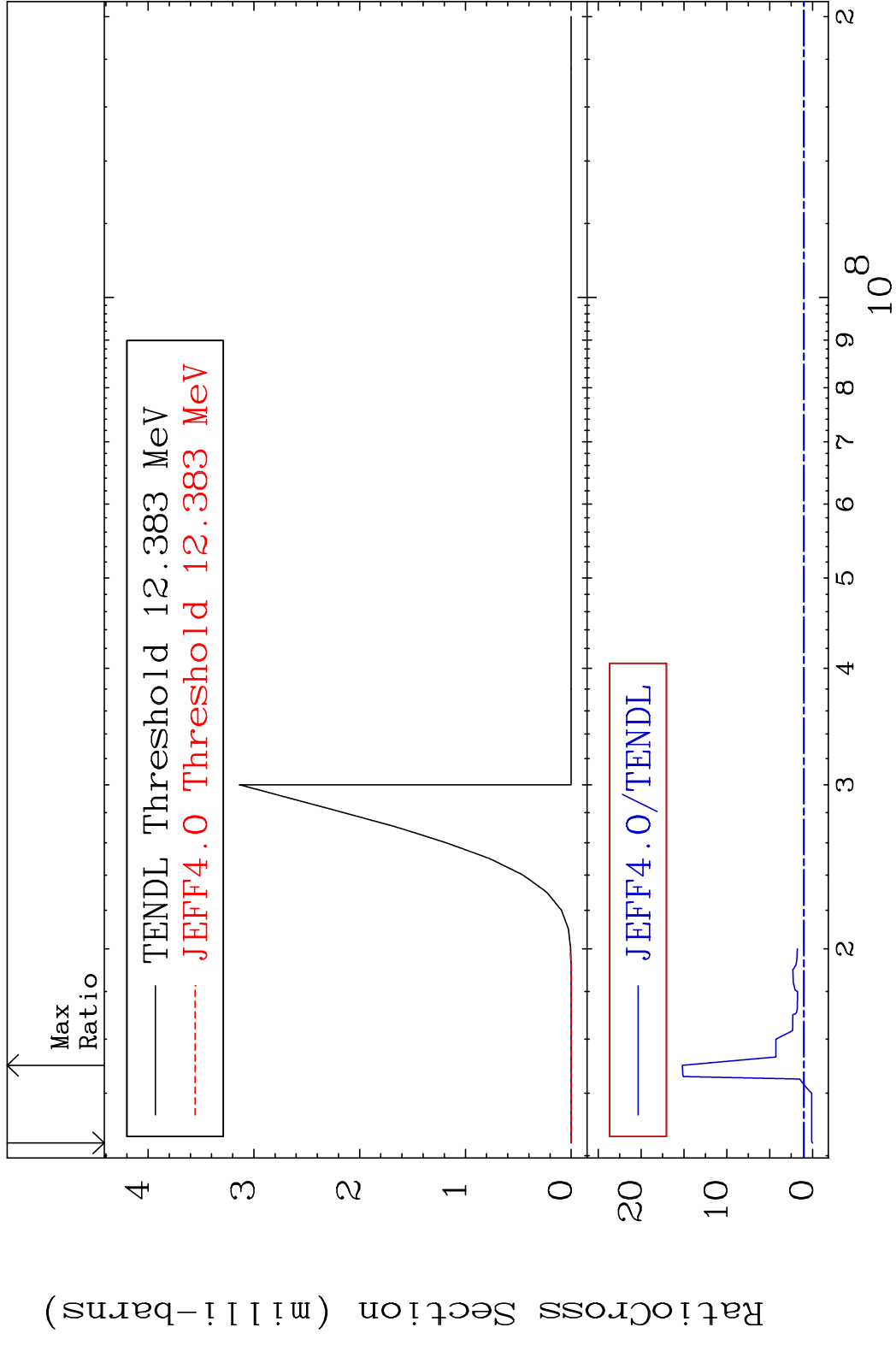


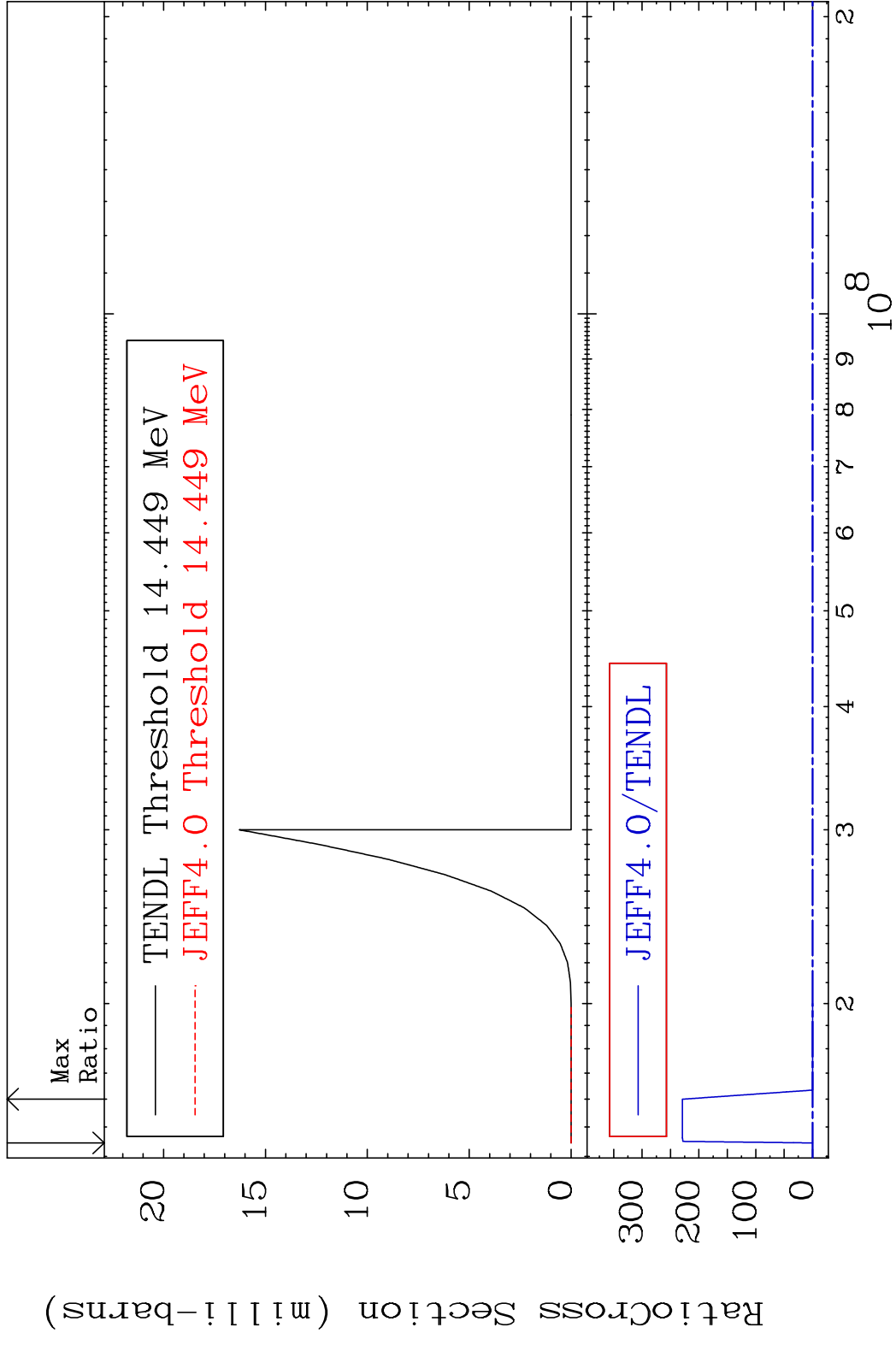


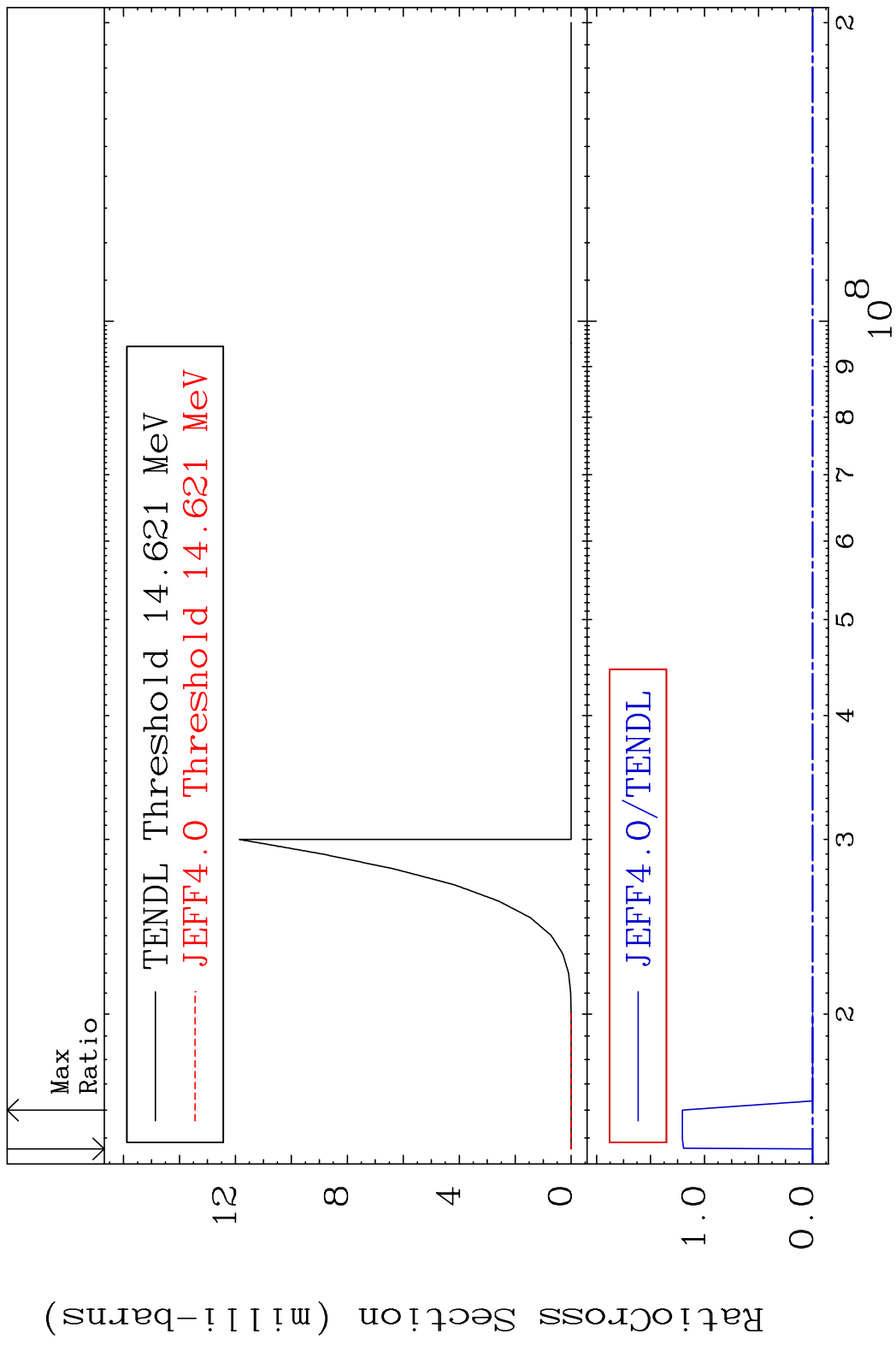




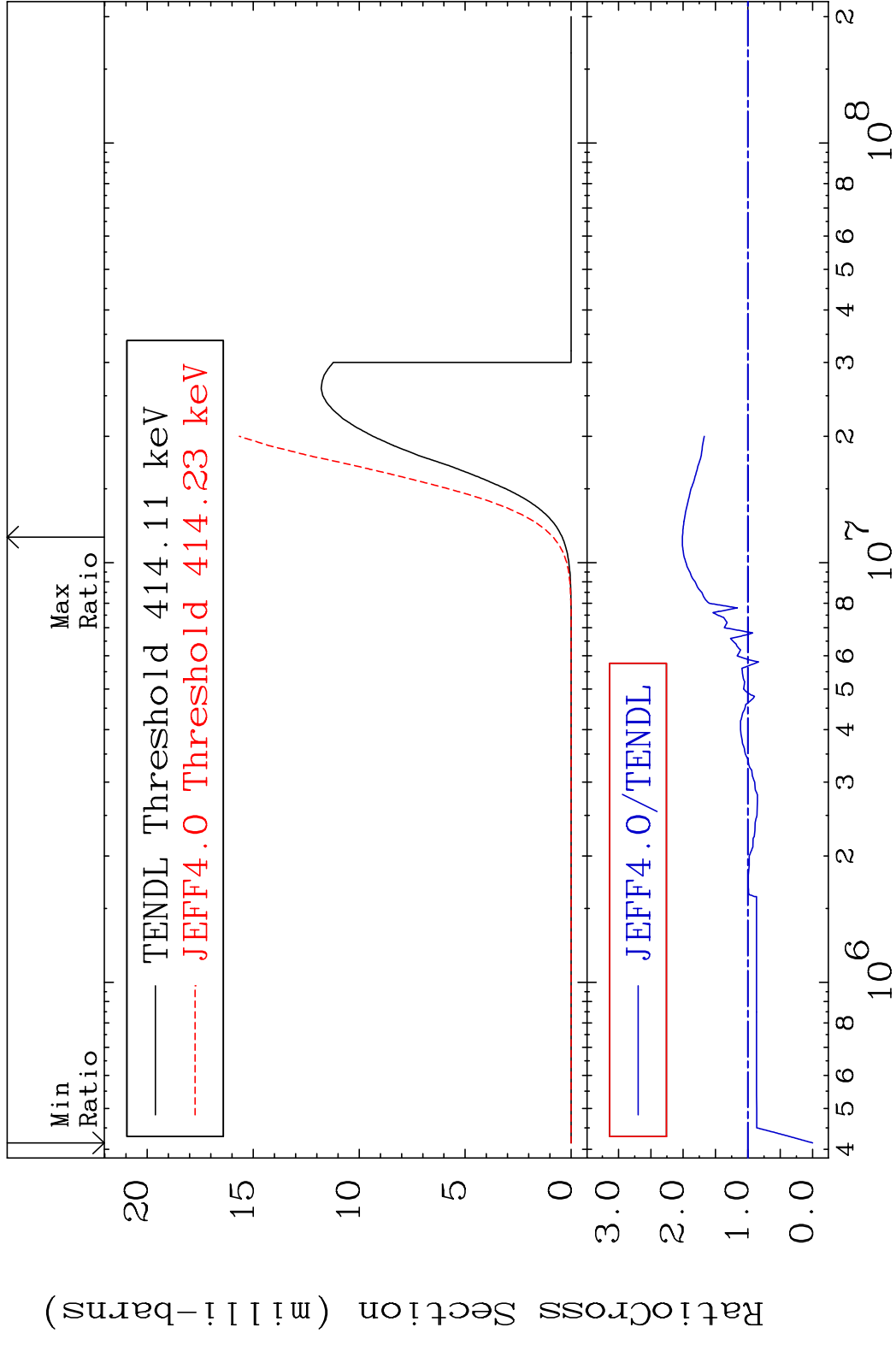




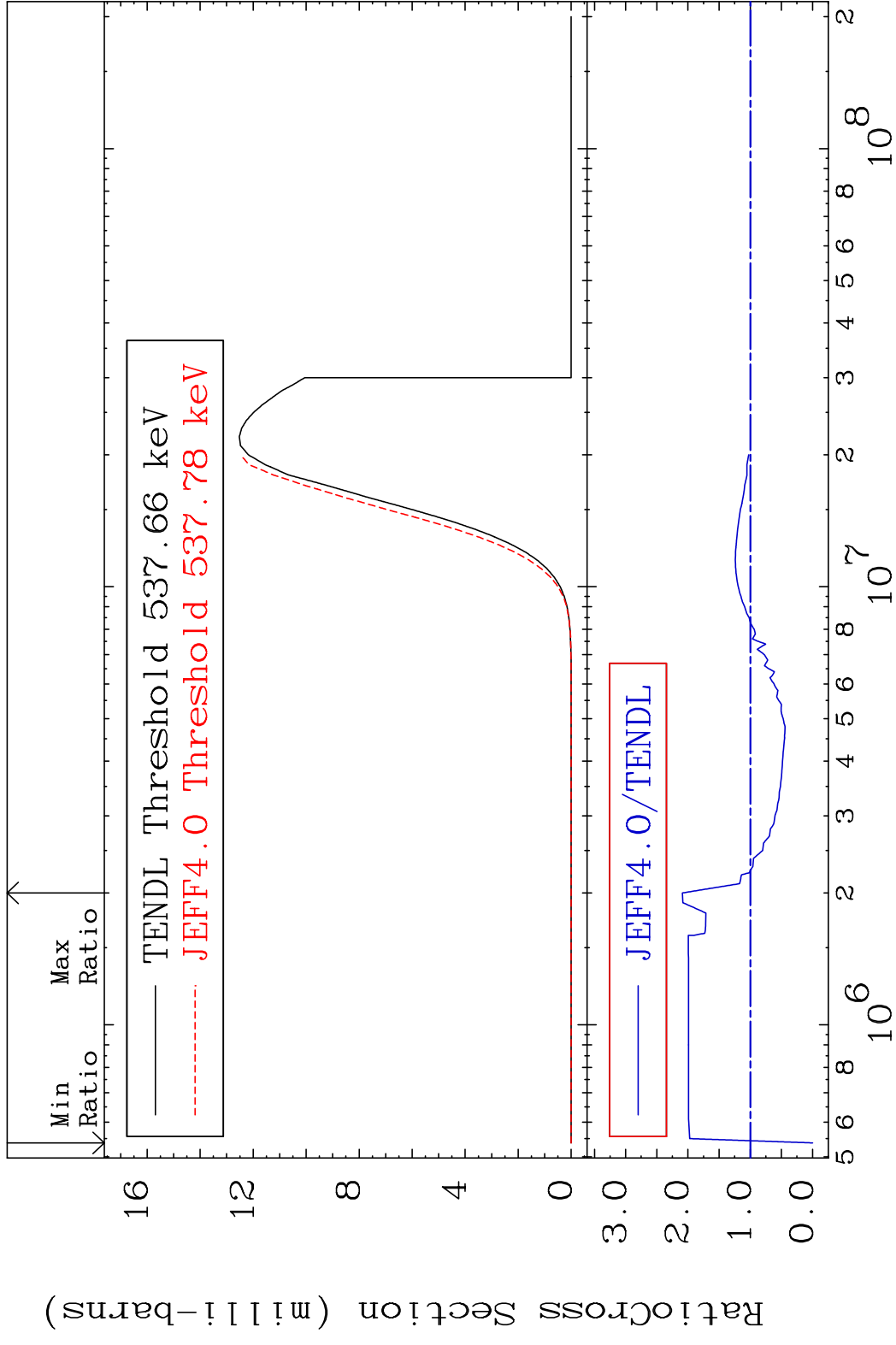


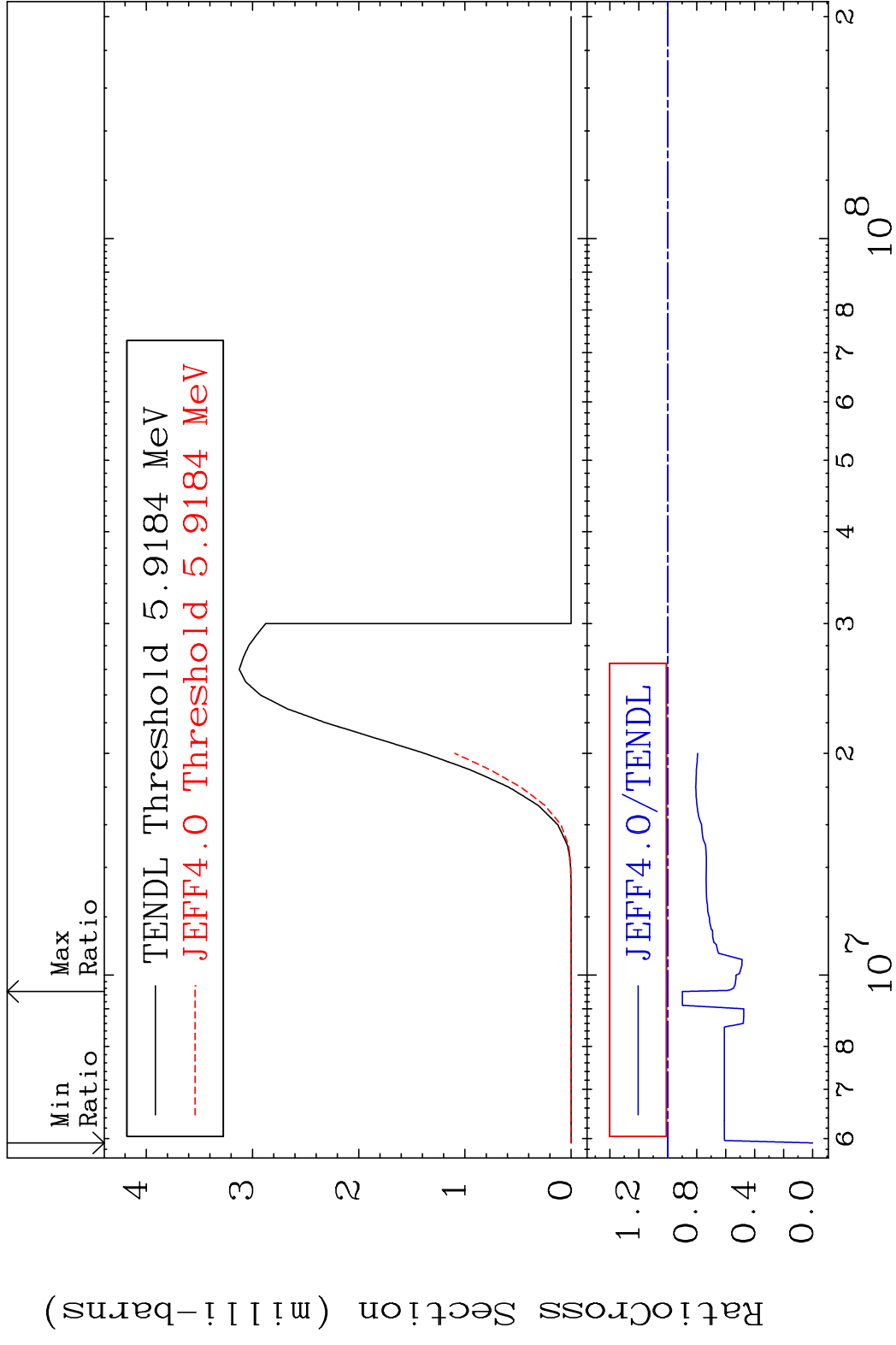


MAT 7231 (n,p):71-Lu-176g 72-Hf-176
 Radionuclide Production Cross Section 100.0% 101.2%



MAT 7231 (n, p): 71-Lu-176m1 72-Hf-176
 Radionuclide Production Cross Section 100.0% to 109.0 %





MAT 7231 (n, t): 71-Lu-174m3 72-Hf-176
 Radionuclide Production Cross Section Ratio 61.52 %

