

Program Complot
(Version 2021-1)

by

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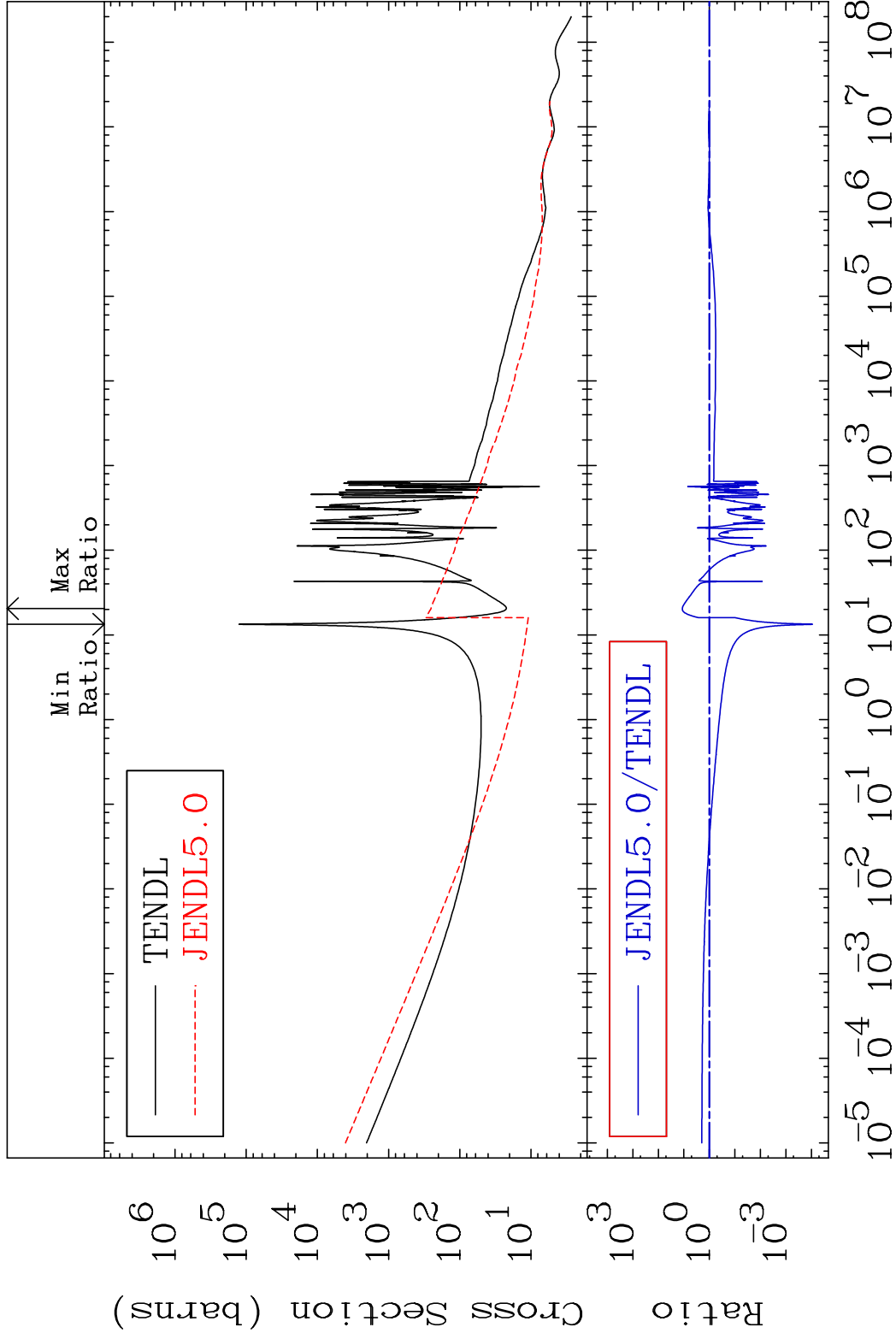
Press Mouse Button to Start

MAT 7246

Total

72-Hf-181

Cross Section -99.99 To 1046. %

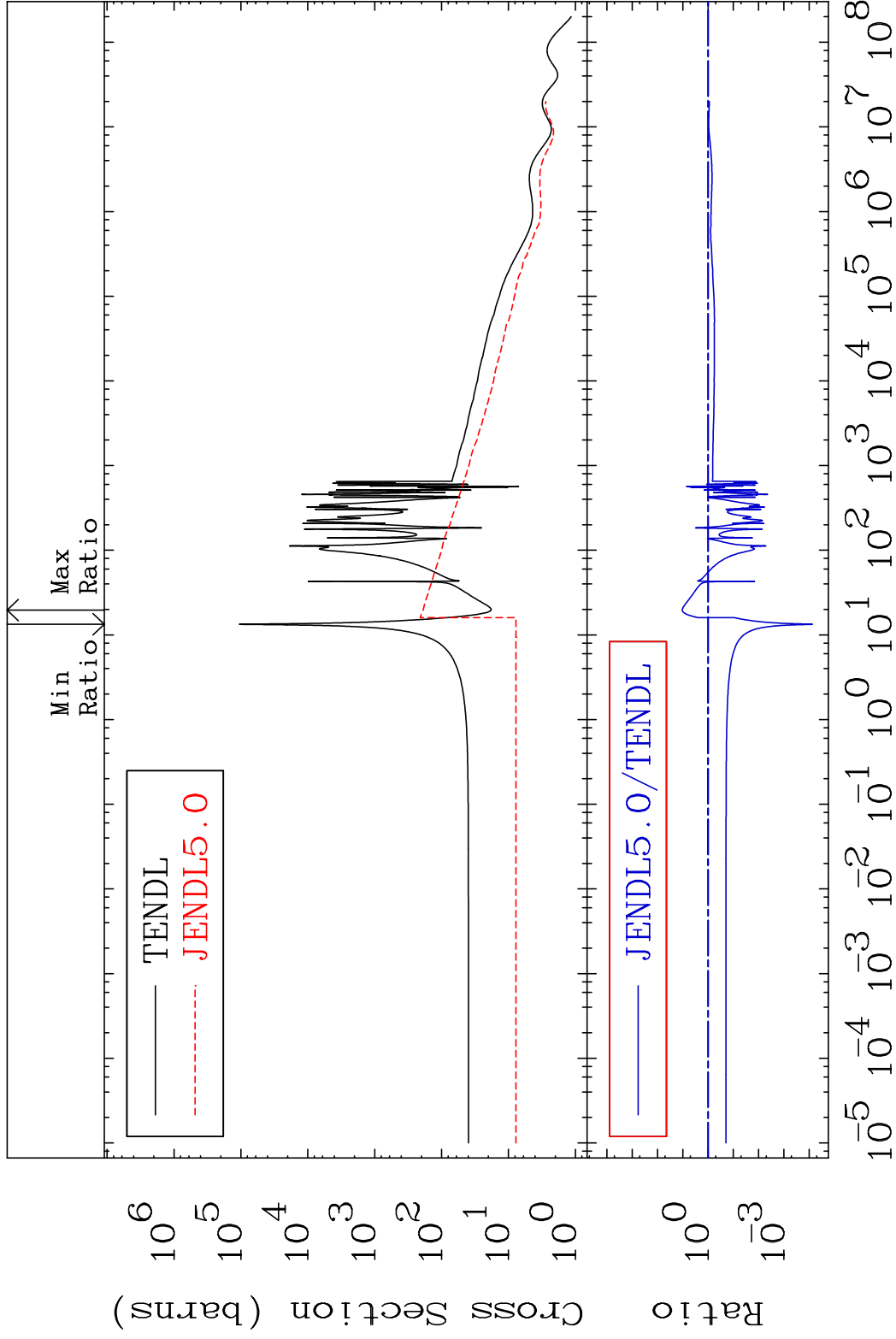


MAT 7246

Elastic

72-Hf-181

Cross Section -99.99 To 938.8 %

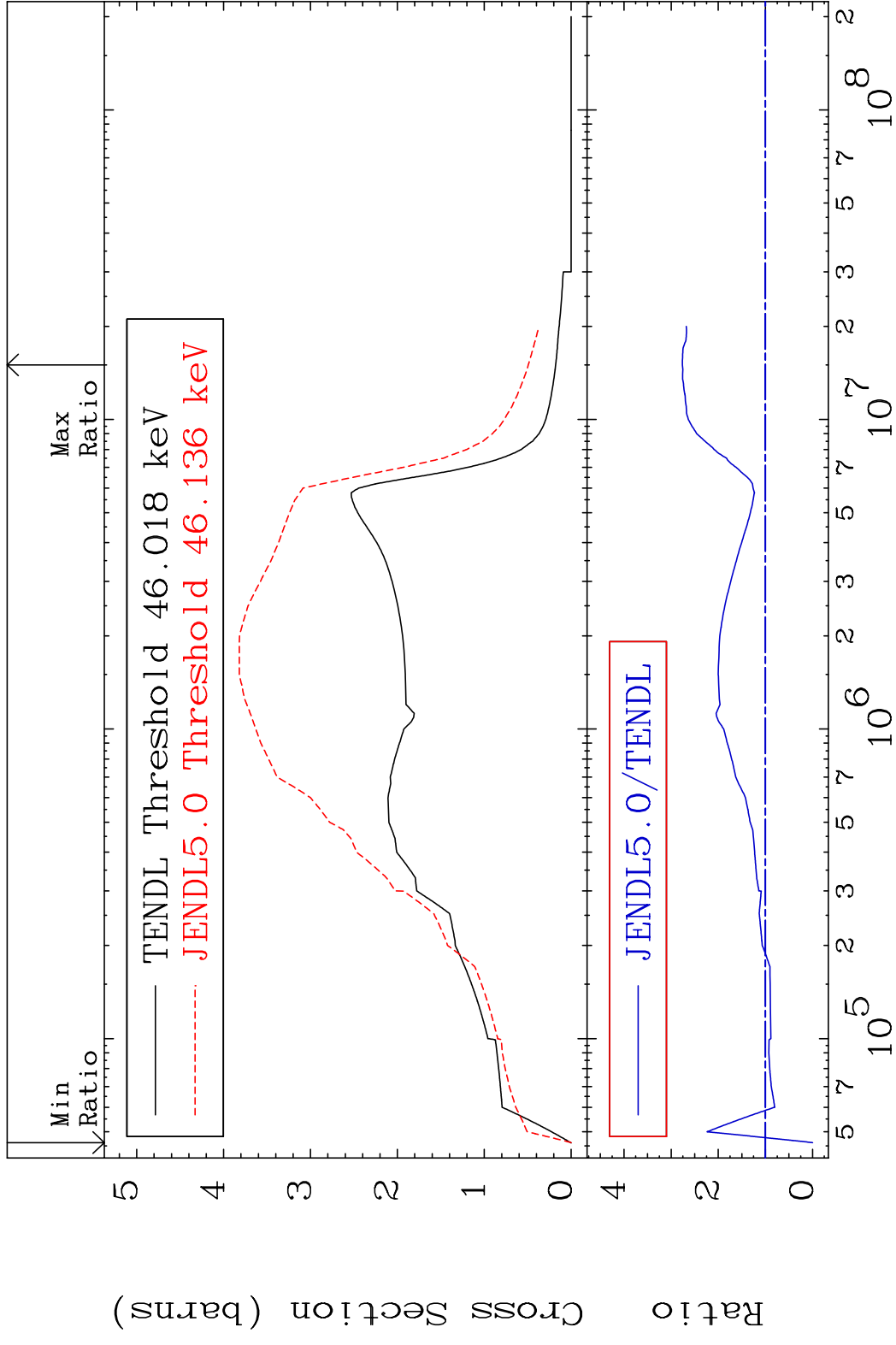


2

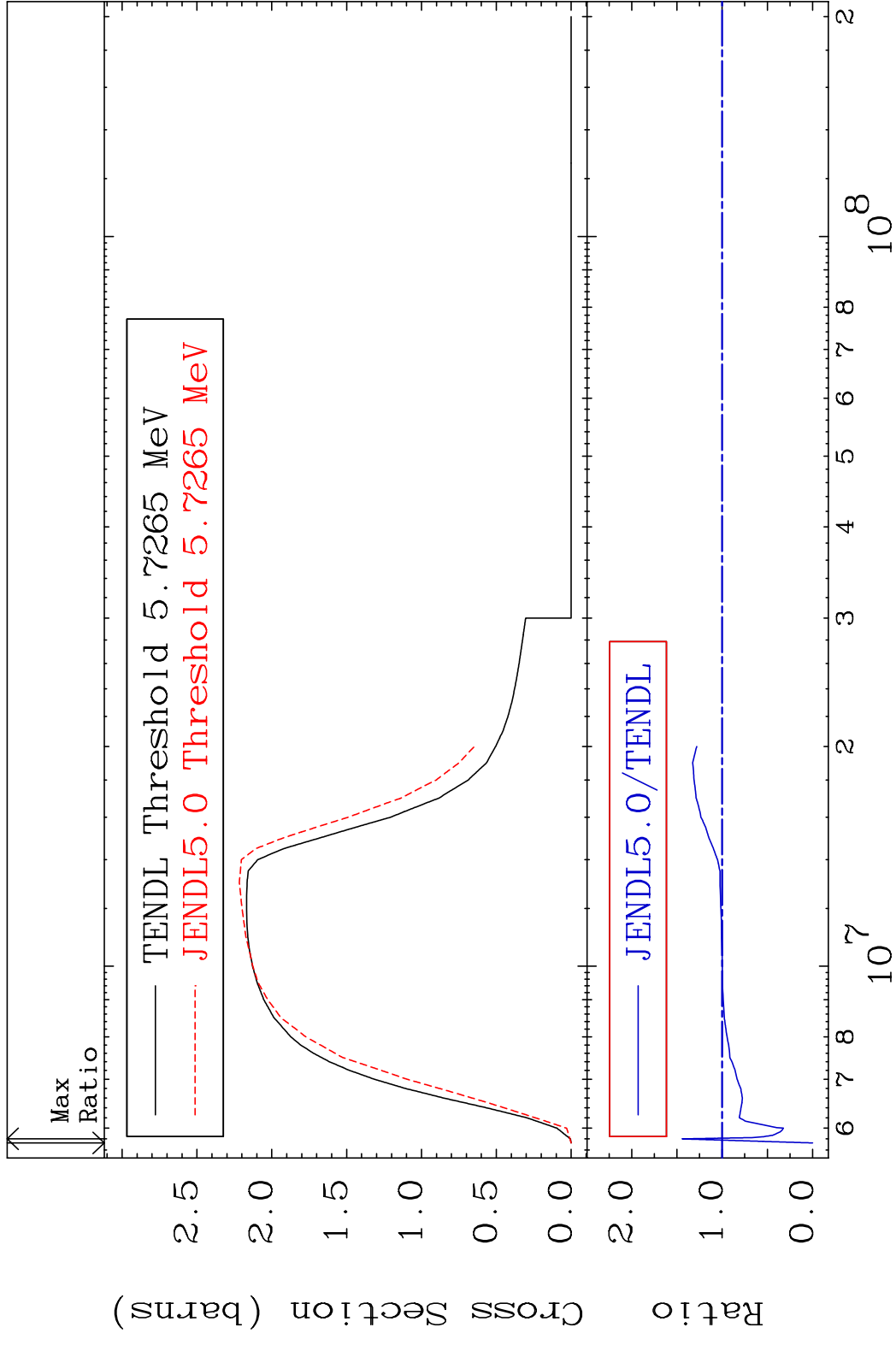
Incident Energy (eV)

72-Hf-181

MAT 7246 Inelastic 72-Hf-181
 Cross Section -100.0 To 176.2 %



MAT 7246 (n,2n) 72-Hf-181
 Cross Section -100.0 To 43.99 %



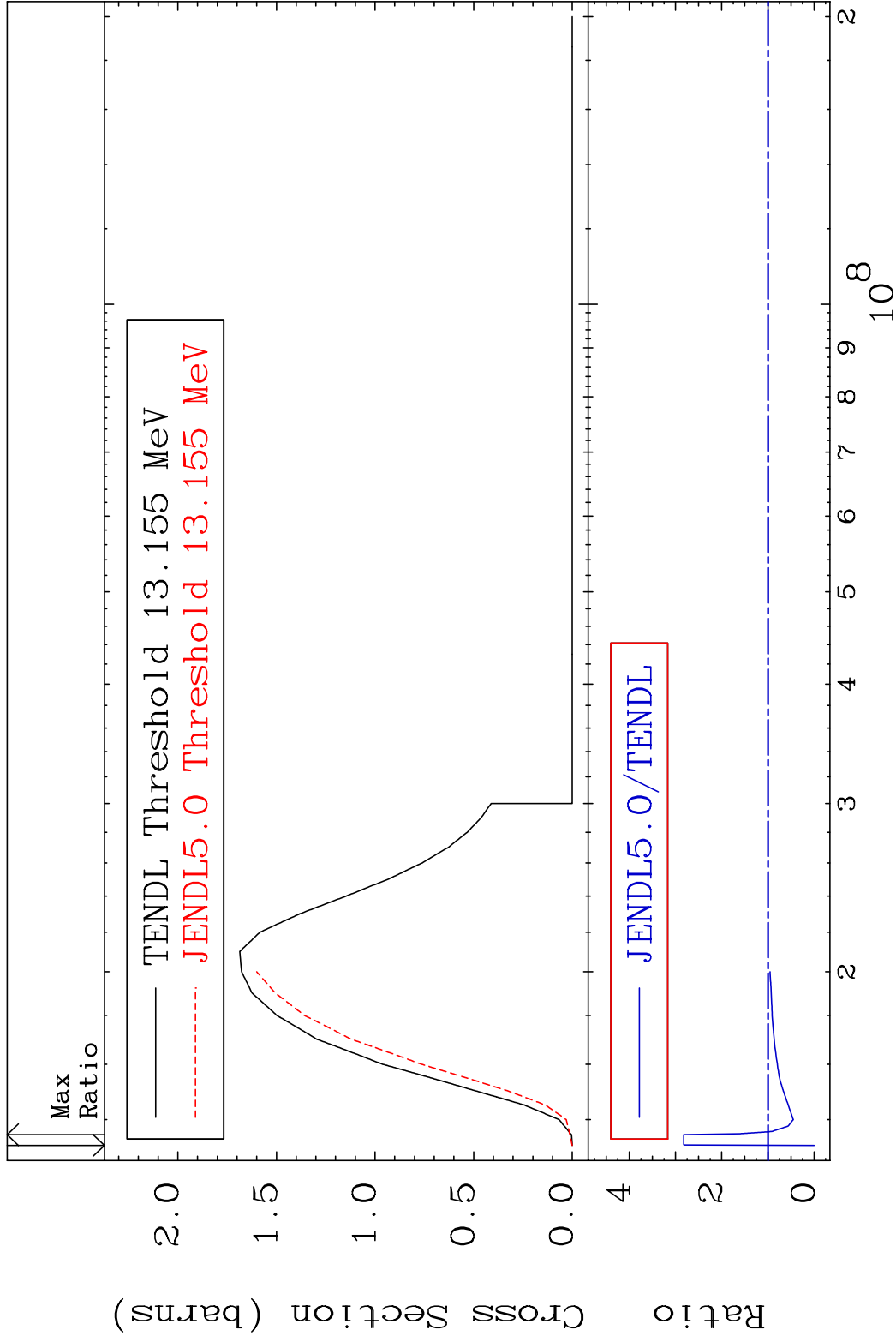
4 Incident Energy (eV) 72-Hf-181

MAT 7246

(n,3n)

72-Hf-181

Cross Section -100.0 To 182.4 %



5

Incident Energy (eV)

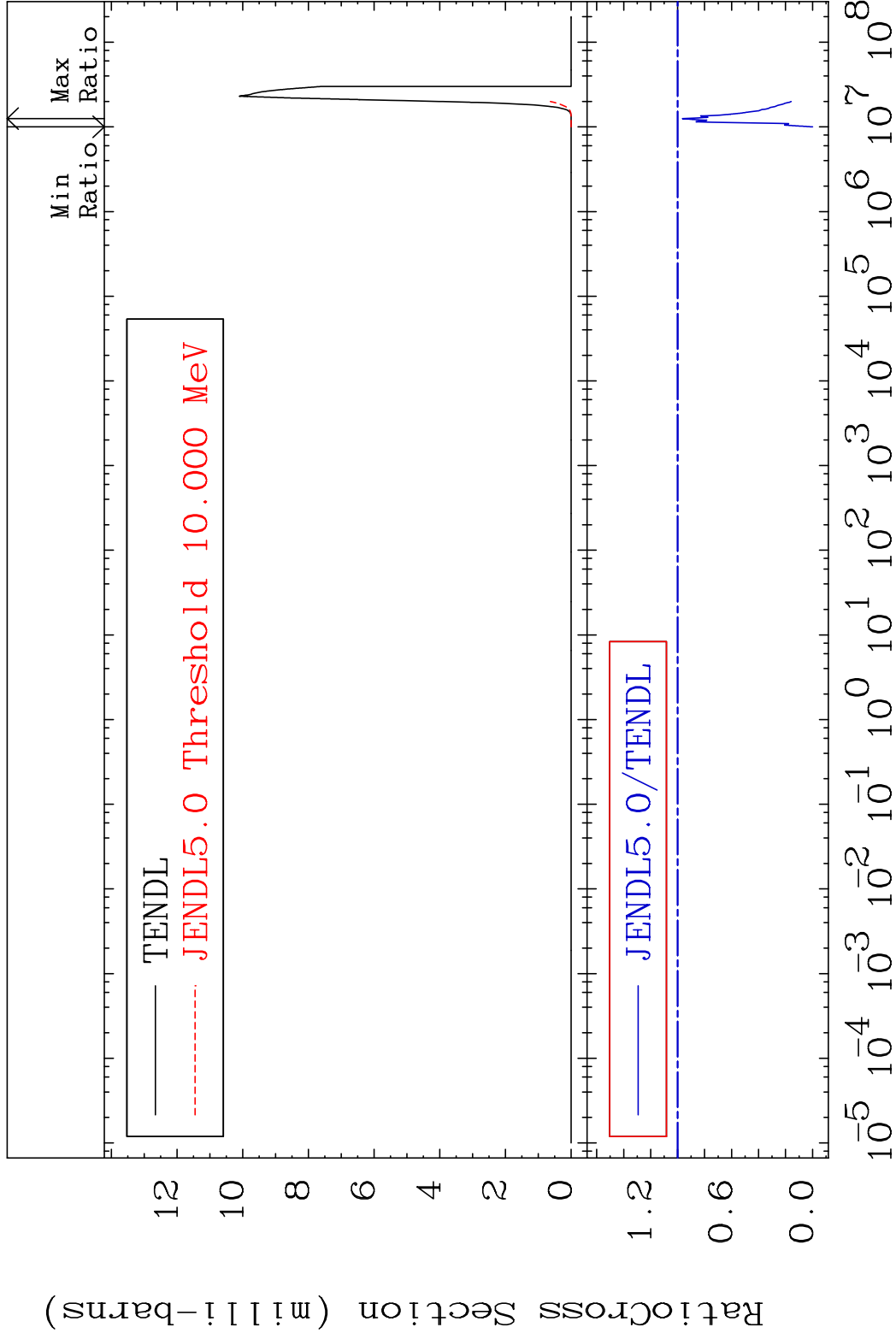
72-Hf-181

MAT 7246

(n, n') α

72-Hf-181

Cross Section -100.0 To -3.494%



6

Incident Energy (eV)

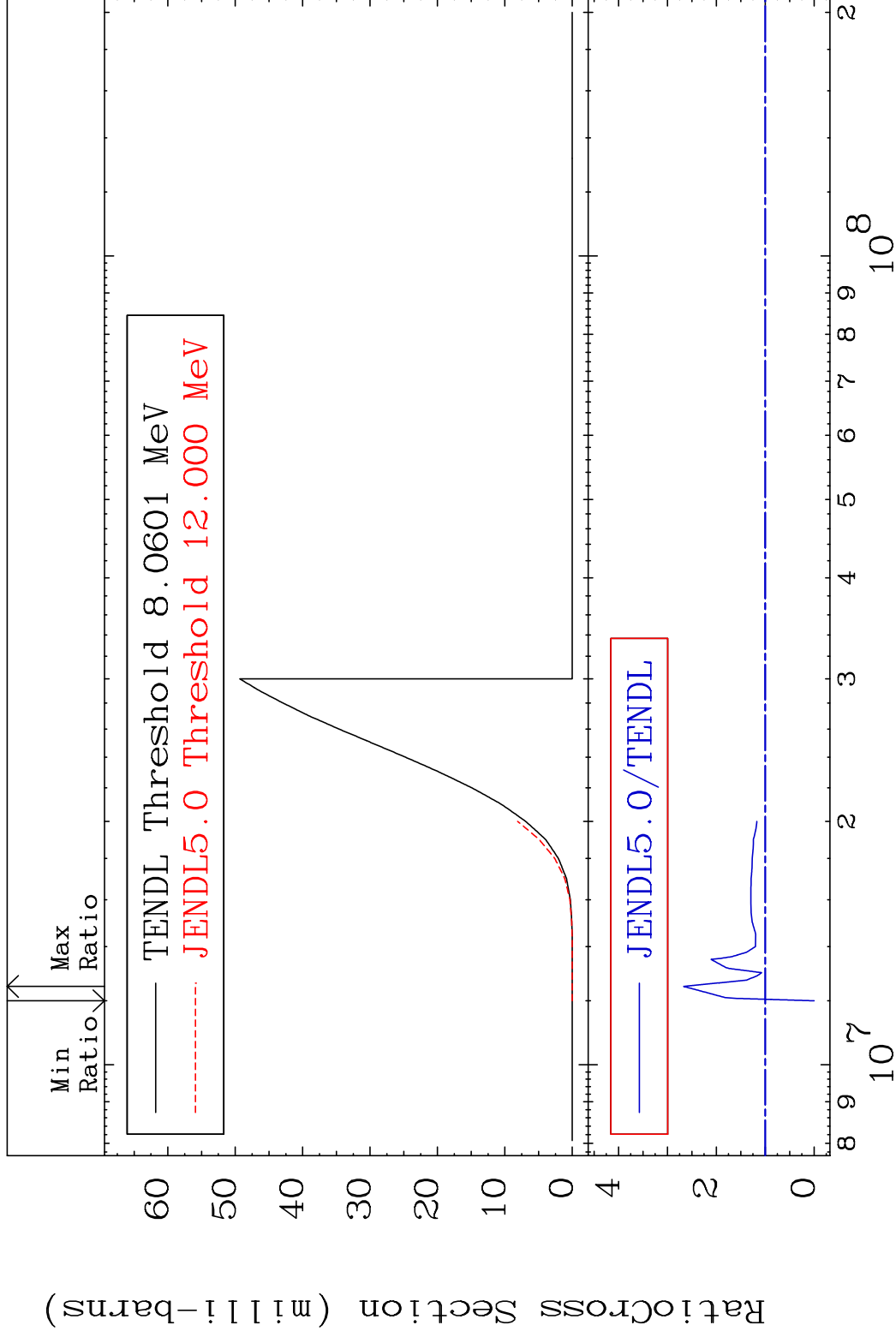
72-Hf-181

MAT 7246

(n, n') p

72-Hf-181

Cross Section -100.0 To 166.8 %



7

Incident Energy (eV)

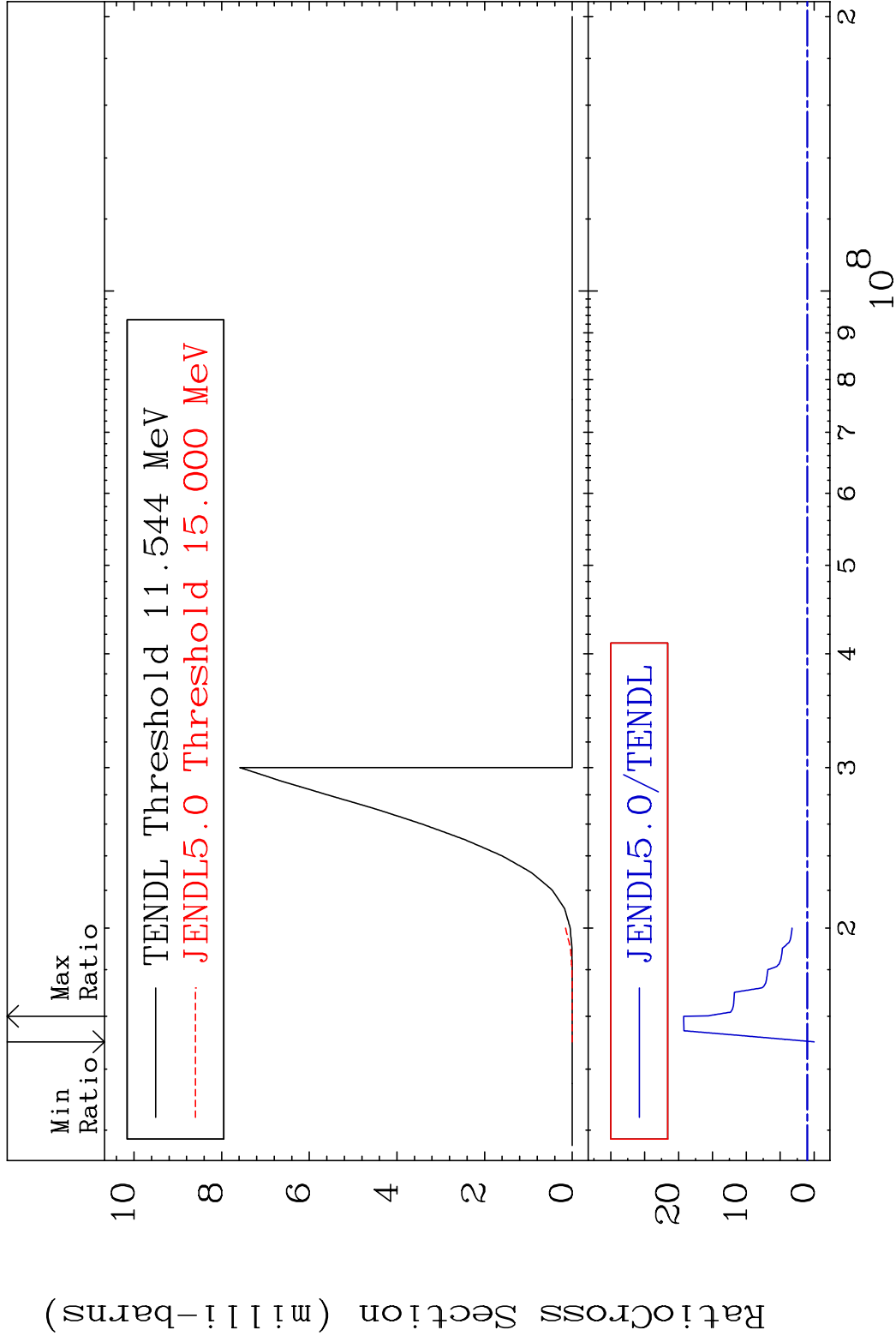
72-Hf-181

MAT 7246

(n, n') d

72-Hf-181

Cross Section -100.0 To 1825. %

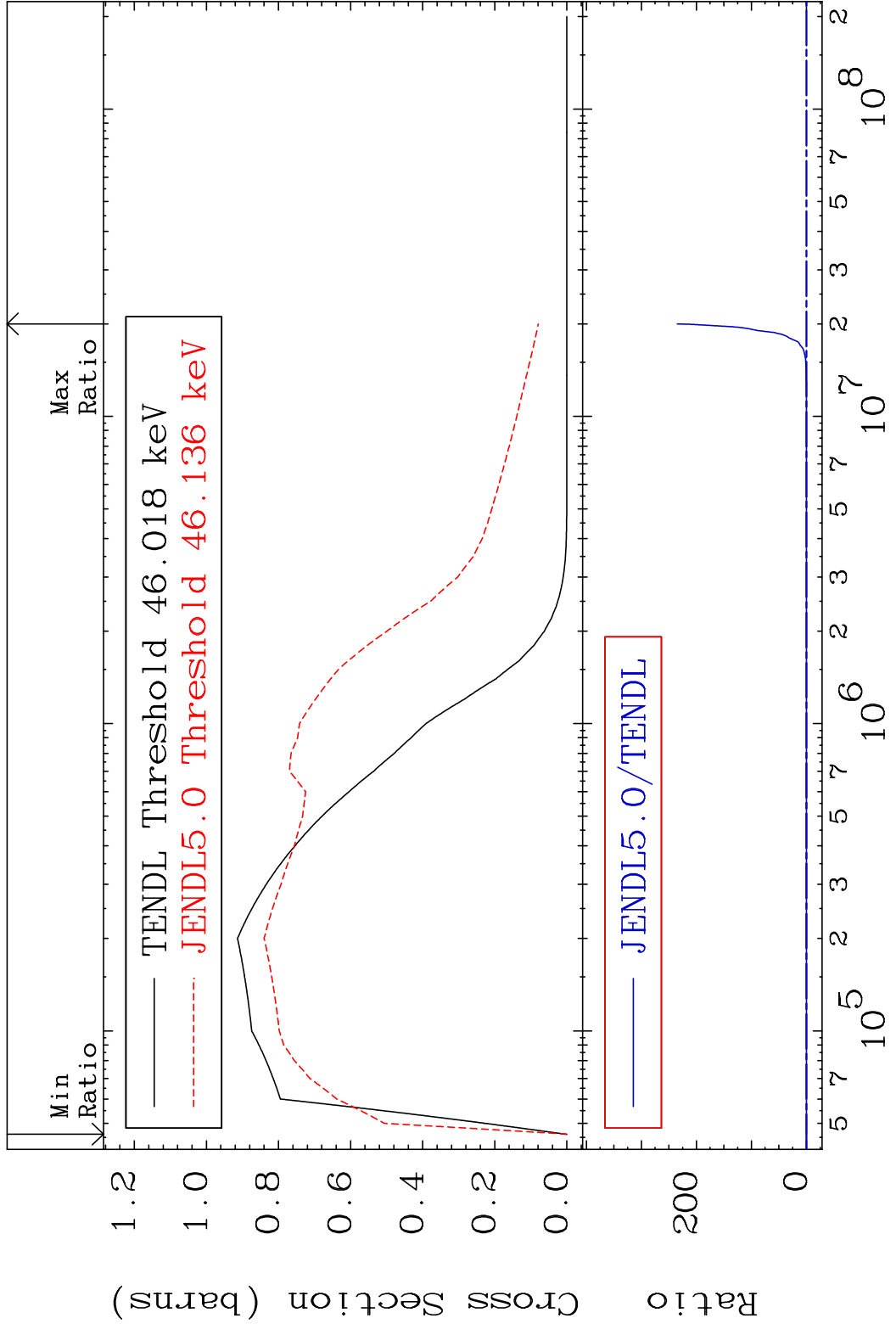


8

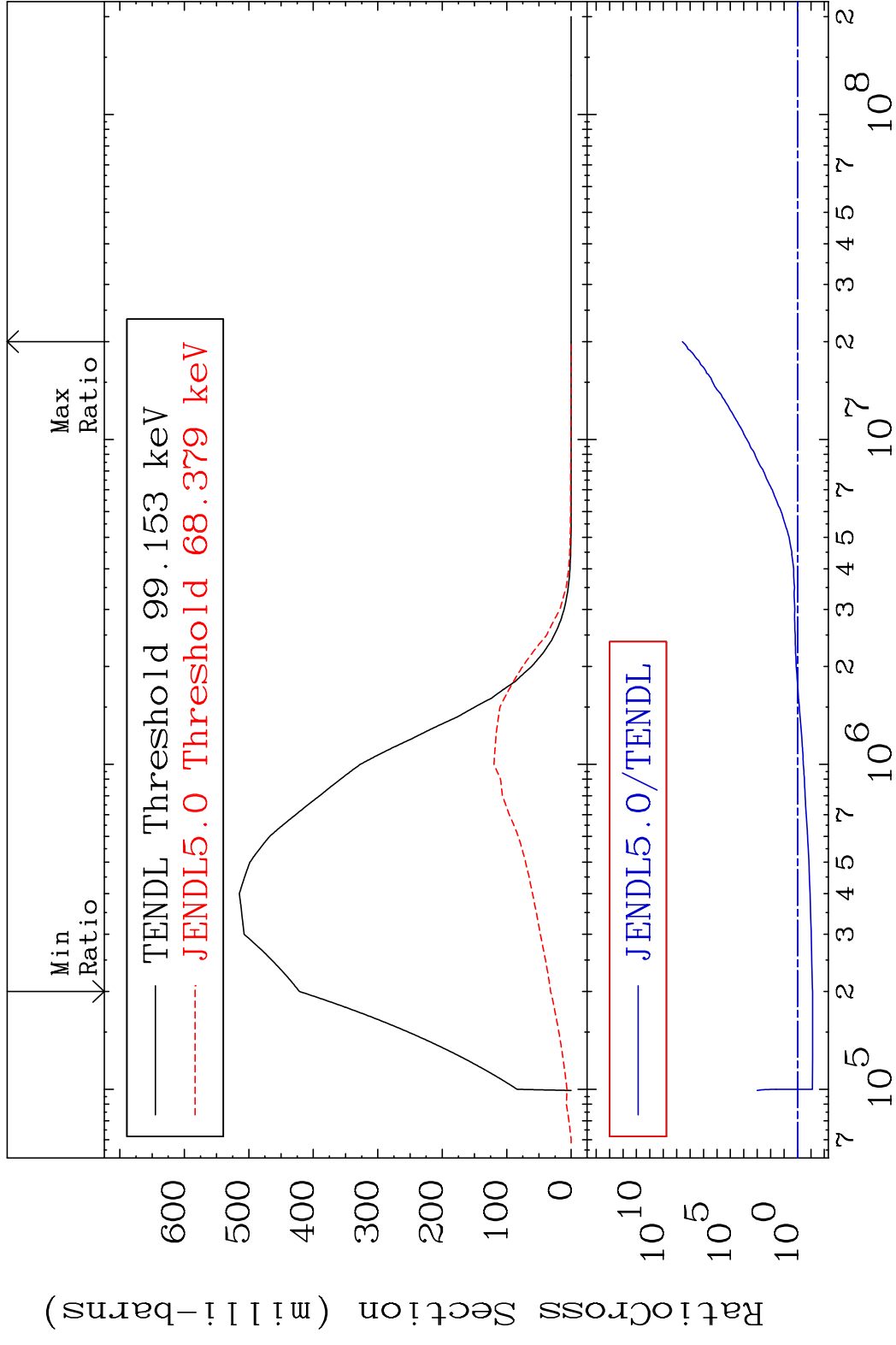
Incident Energy (eV)

72-Hf-181

MAT 7246 MT= 51 (n, n') Level 72-Hf-181
 Cross Section -100.0 To 9999. %

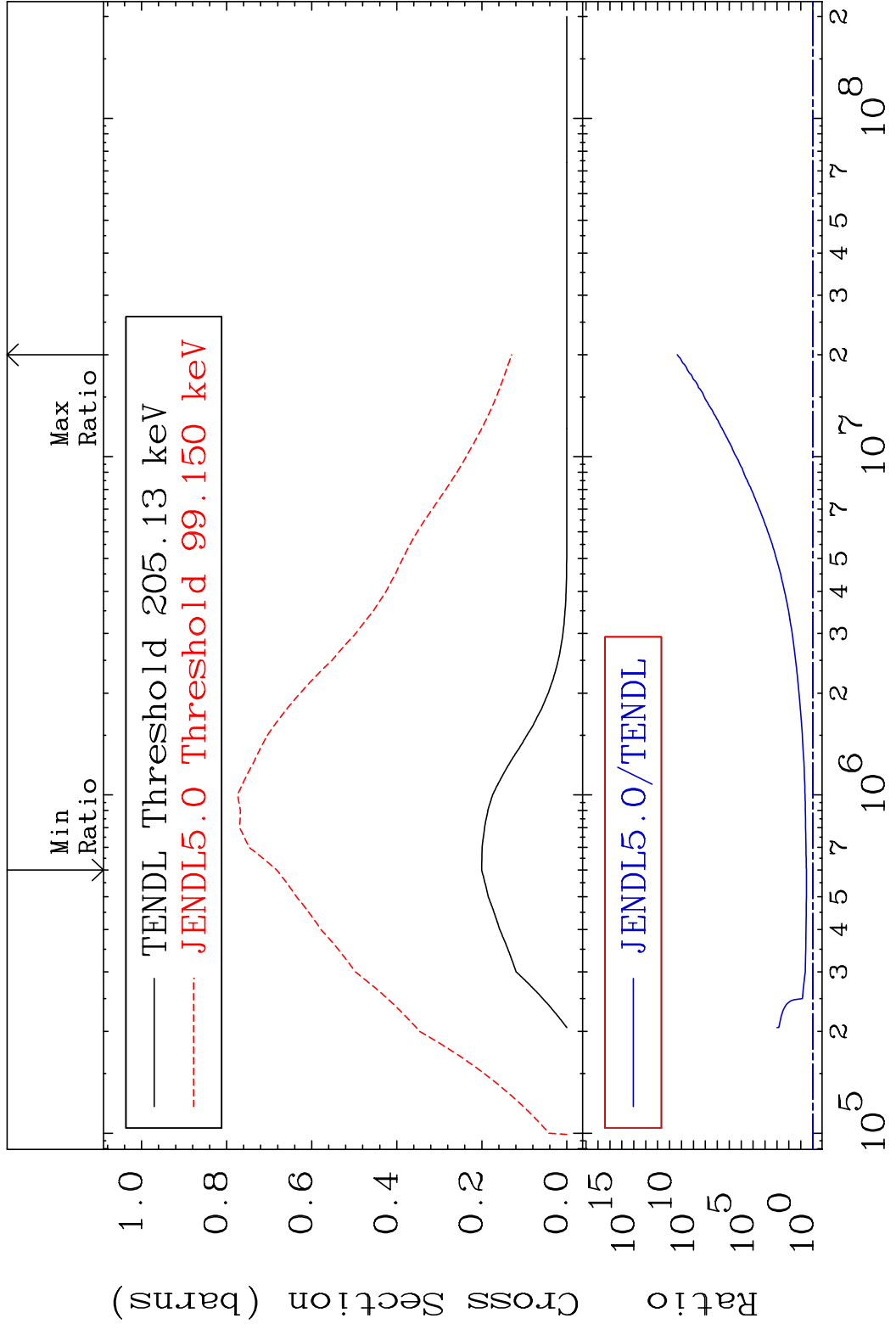


MAT 7246 MT= 52 (n,n') Level 72-Hf-181
 Cross Section -92.46 To 9999. %

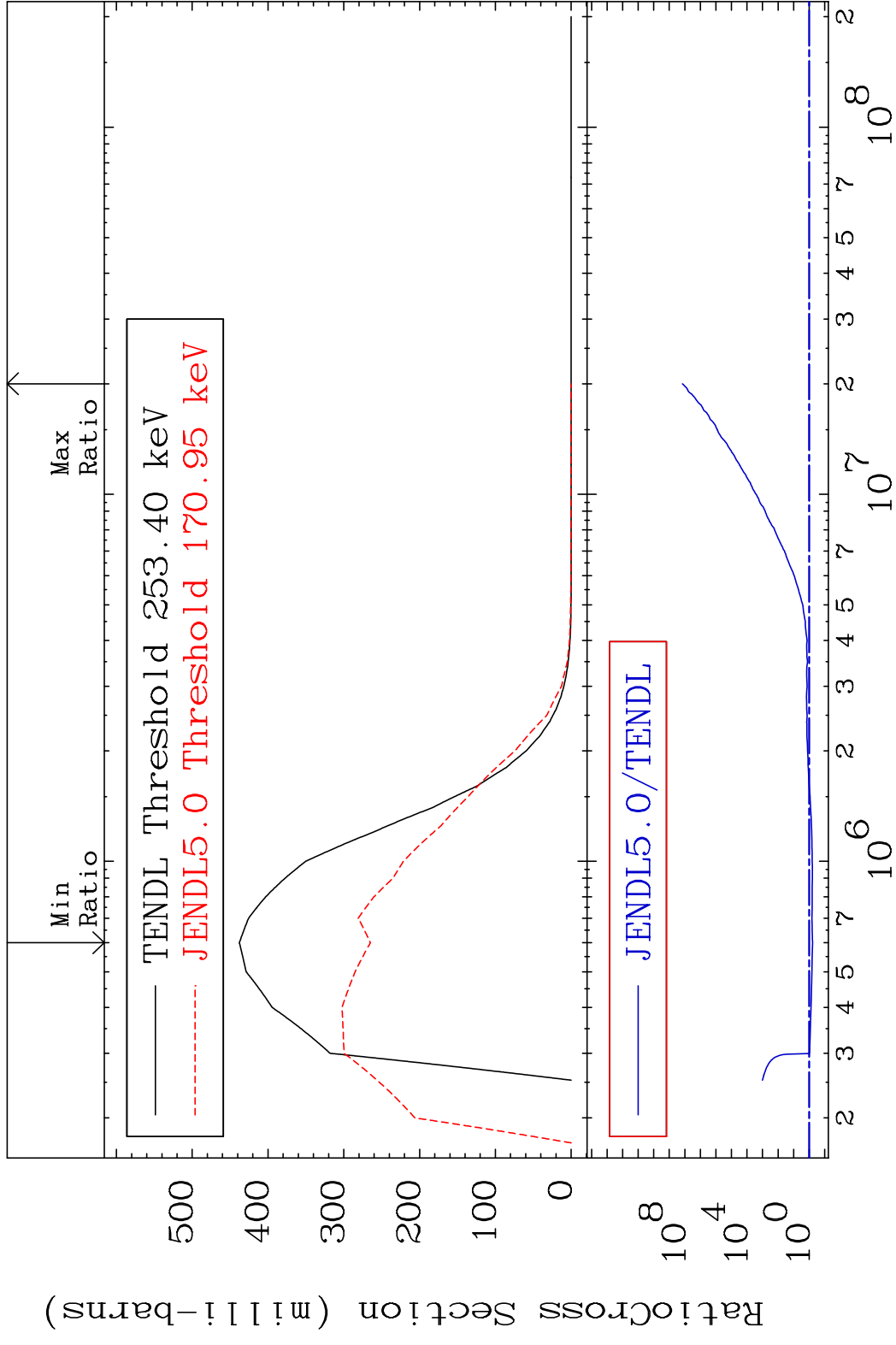


10 10 7 2 3 4 5 7 8 10 72-Hf-181

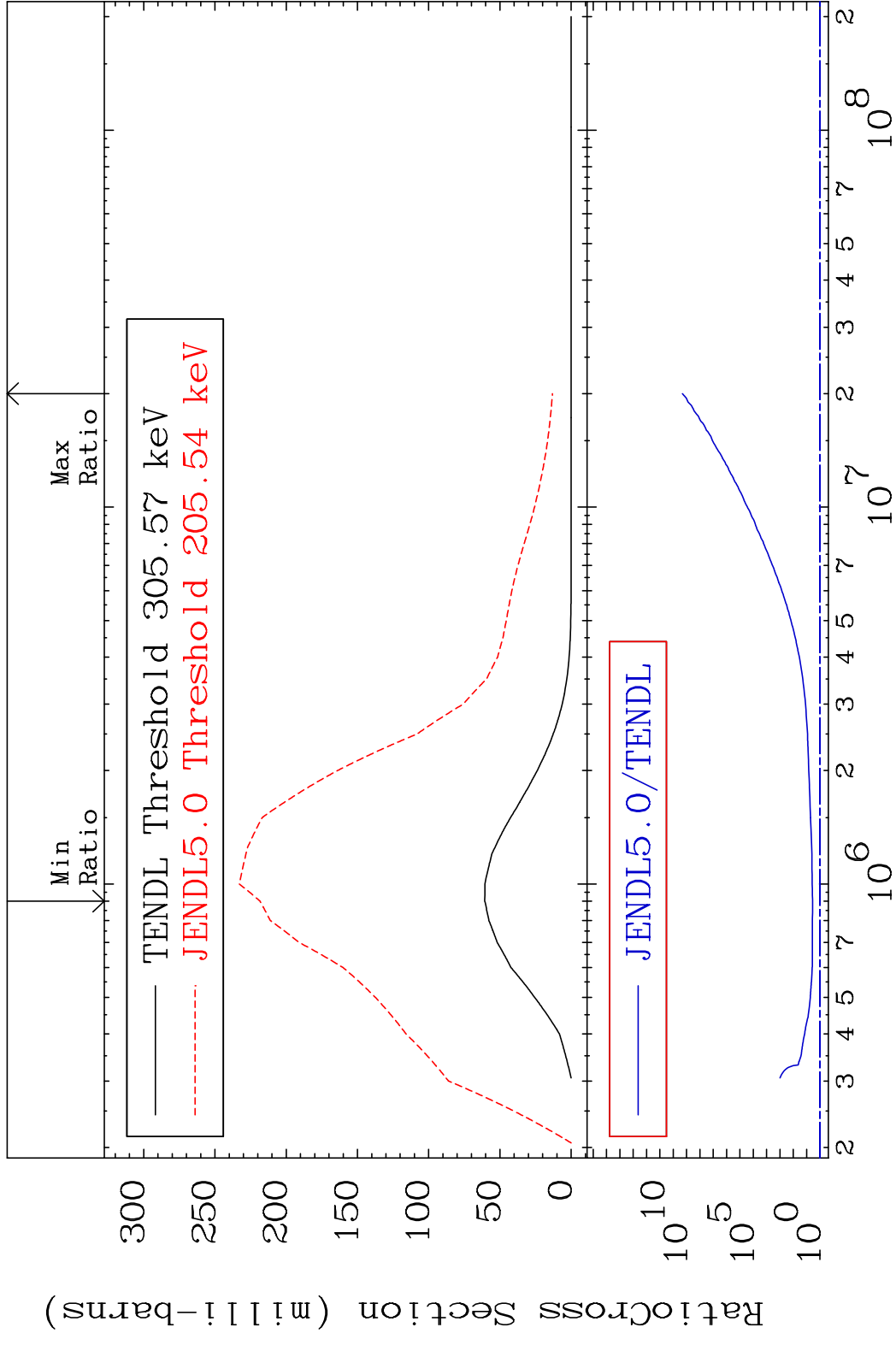
MAT 7246 MT= 53 (n, n') Level 72-Hf-181
 Cross Section 240.4 To 9999. %



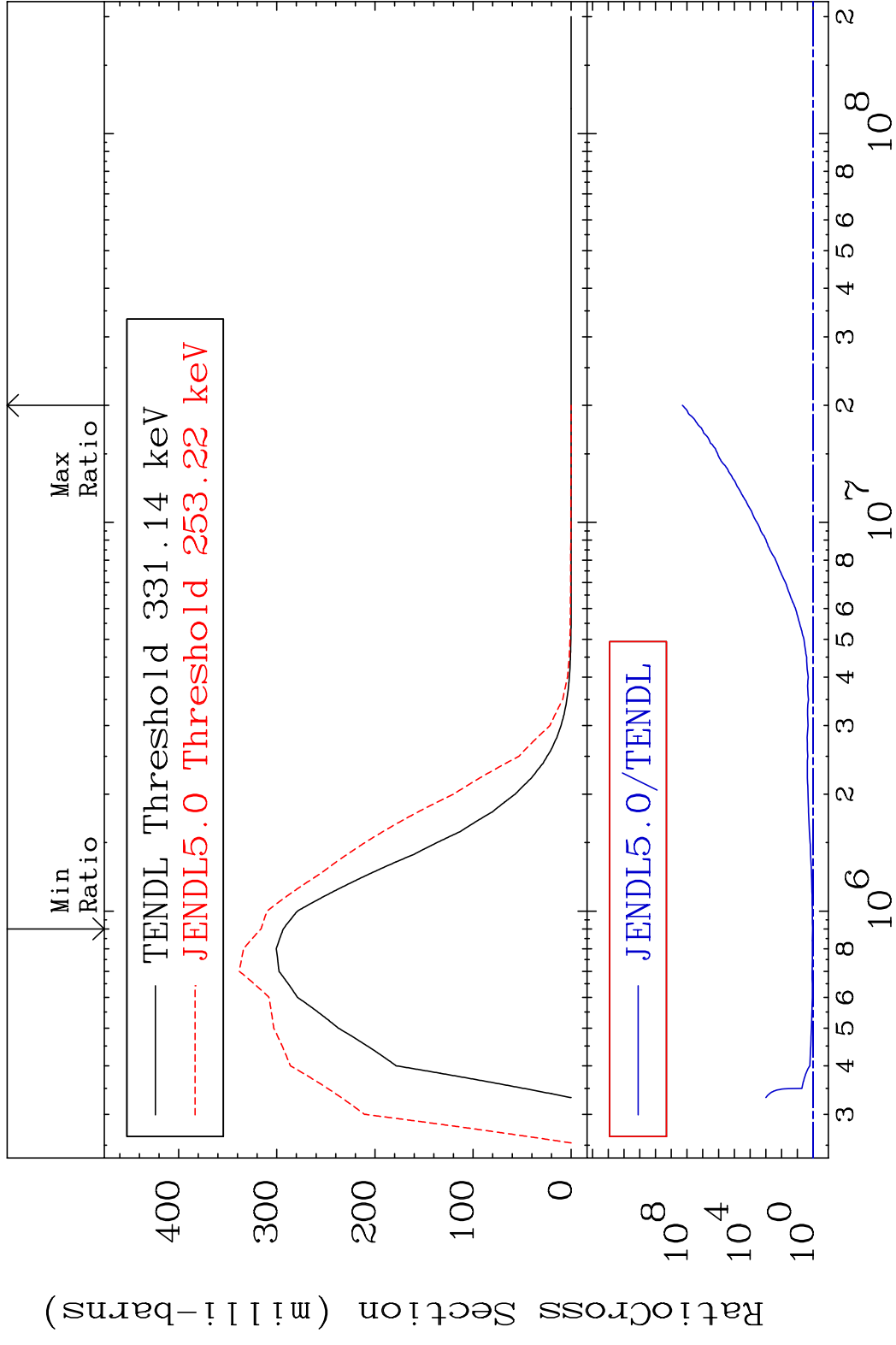
MAT 7246 MT= 54 (n, n') Level 72-Hf-181
 Cross Section -39.50 To 9999. %



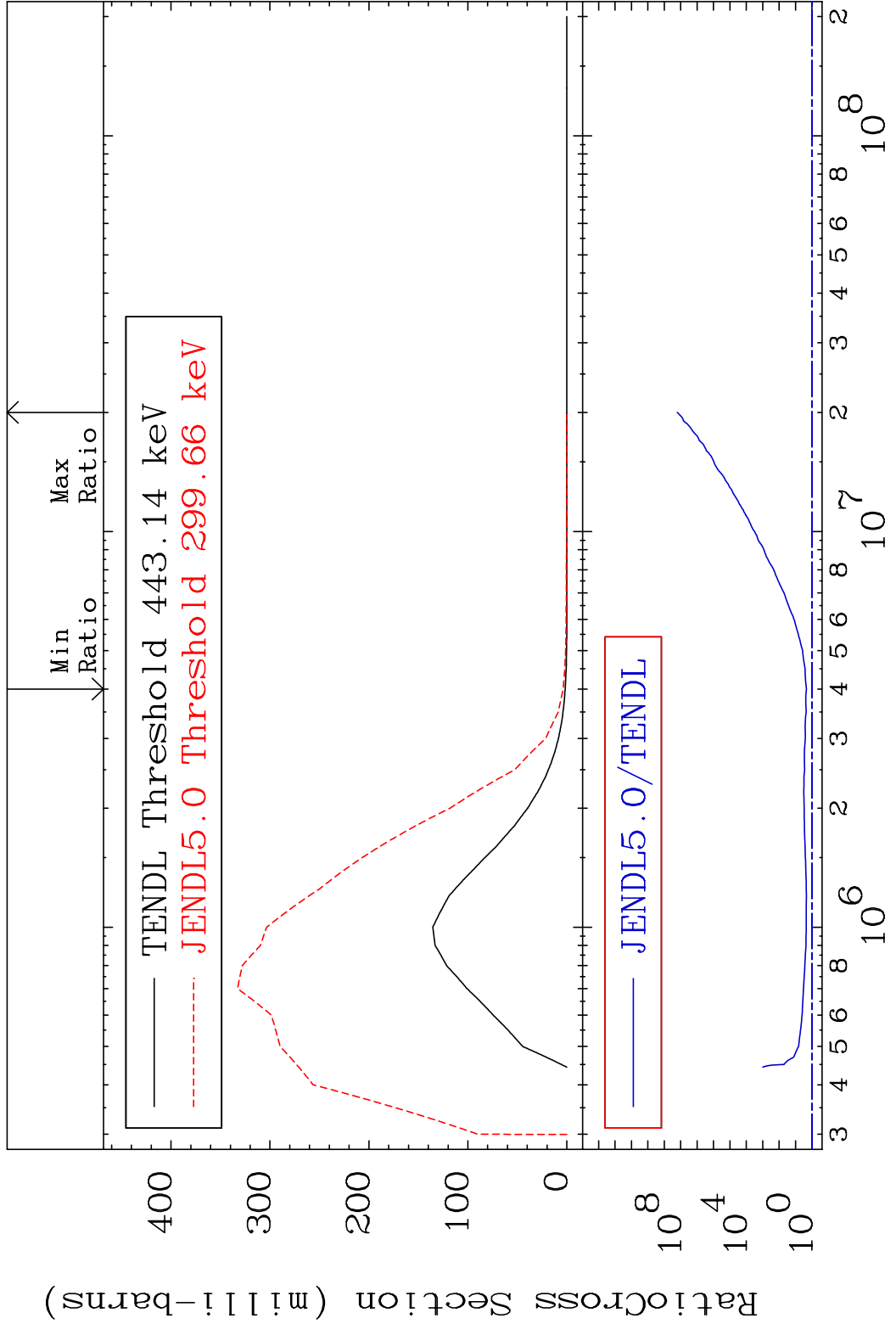
MAT 7246 MT= 55 (n,n') Level 72-Hf-181
 Cross Section 260.2 To 9999. %



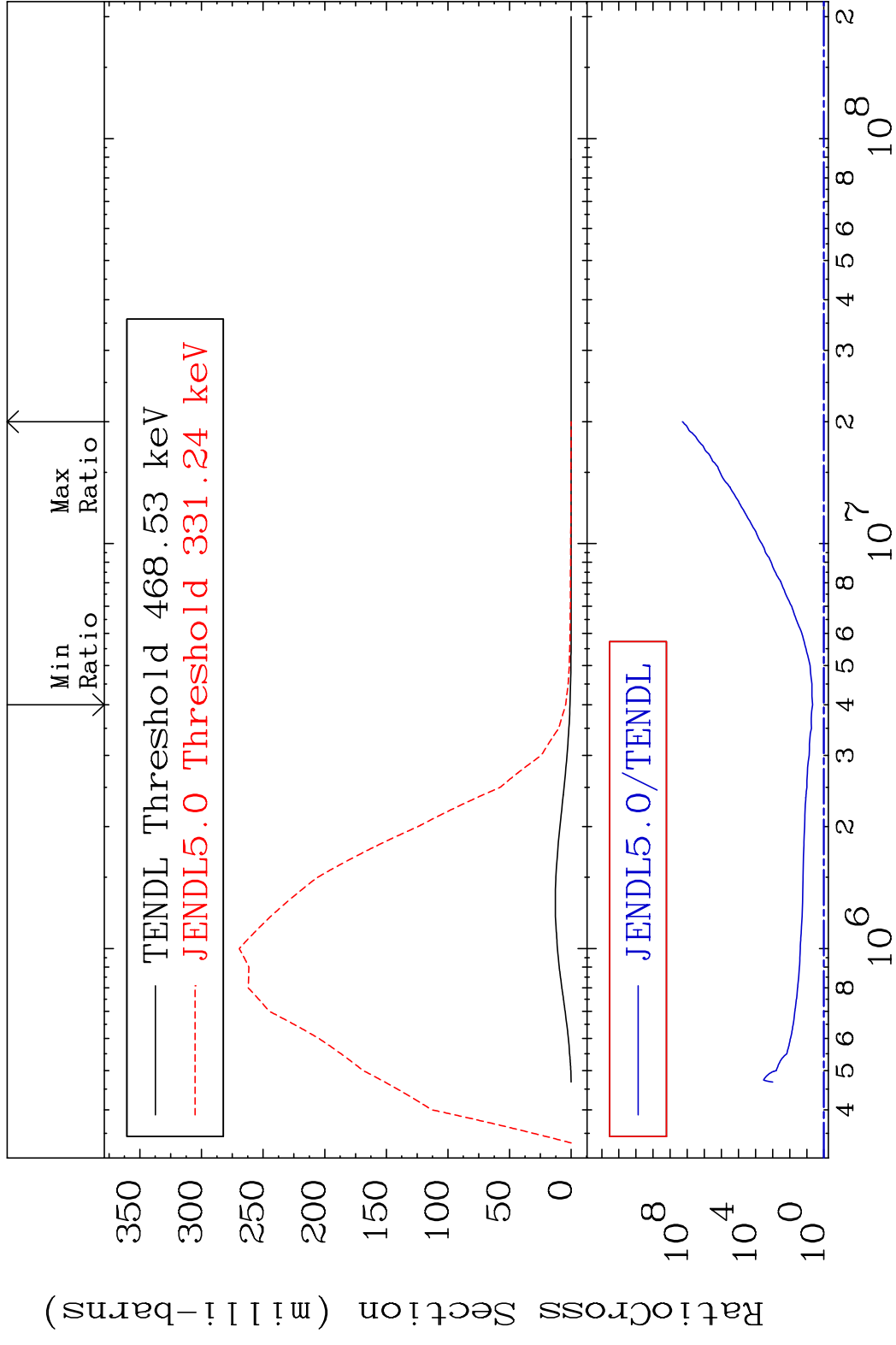
MAT 7246 MT= 56 (n,n') Level 72-Hf-181
 Cross Section 7.742 To 9999. %



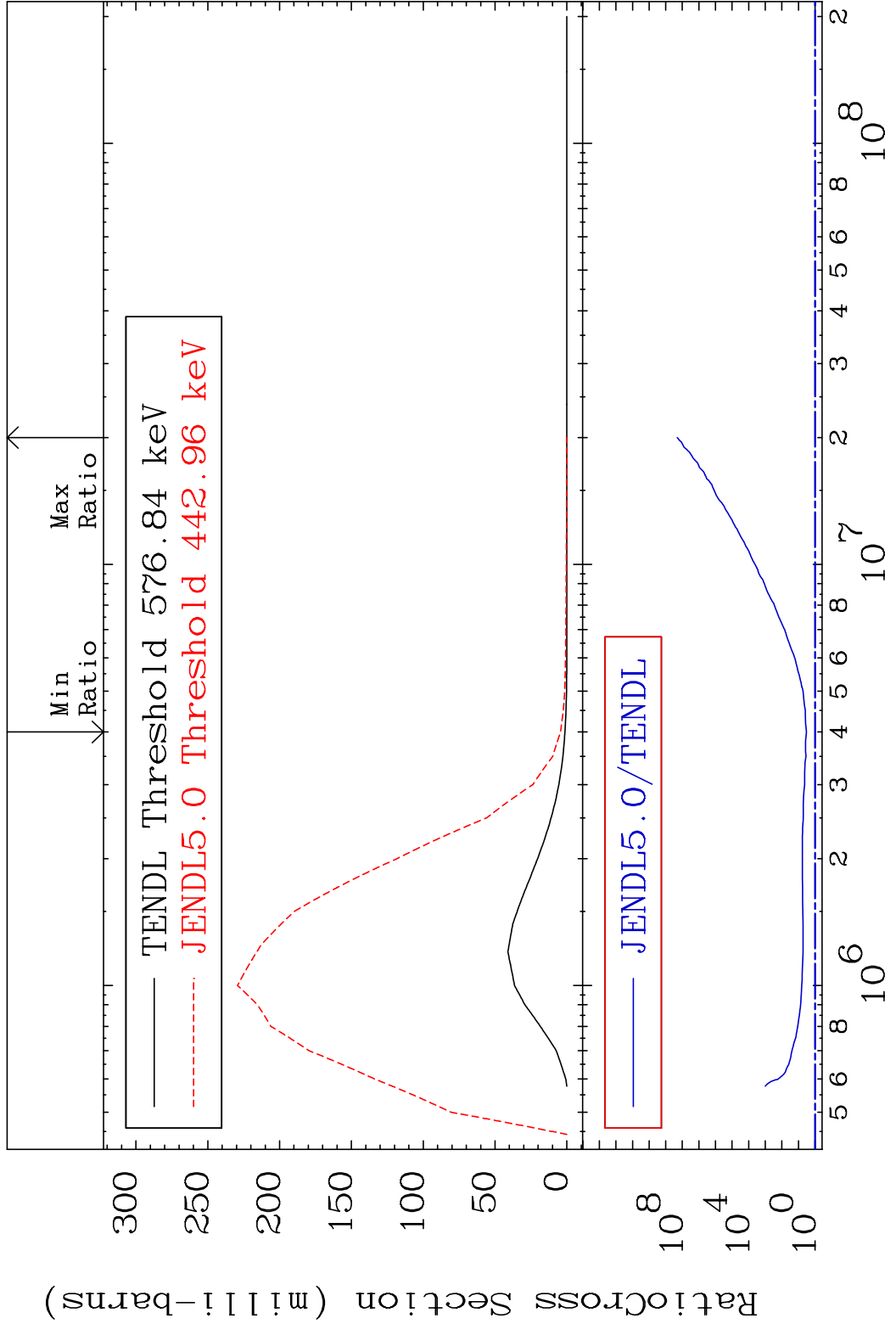
MAT 7246 MT= 57 (n, n') Level 72-Hf-181
 Cross Section 117.6 To 9999. %



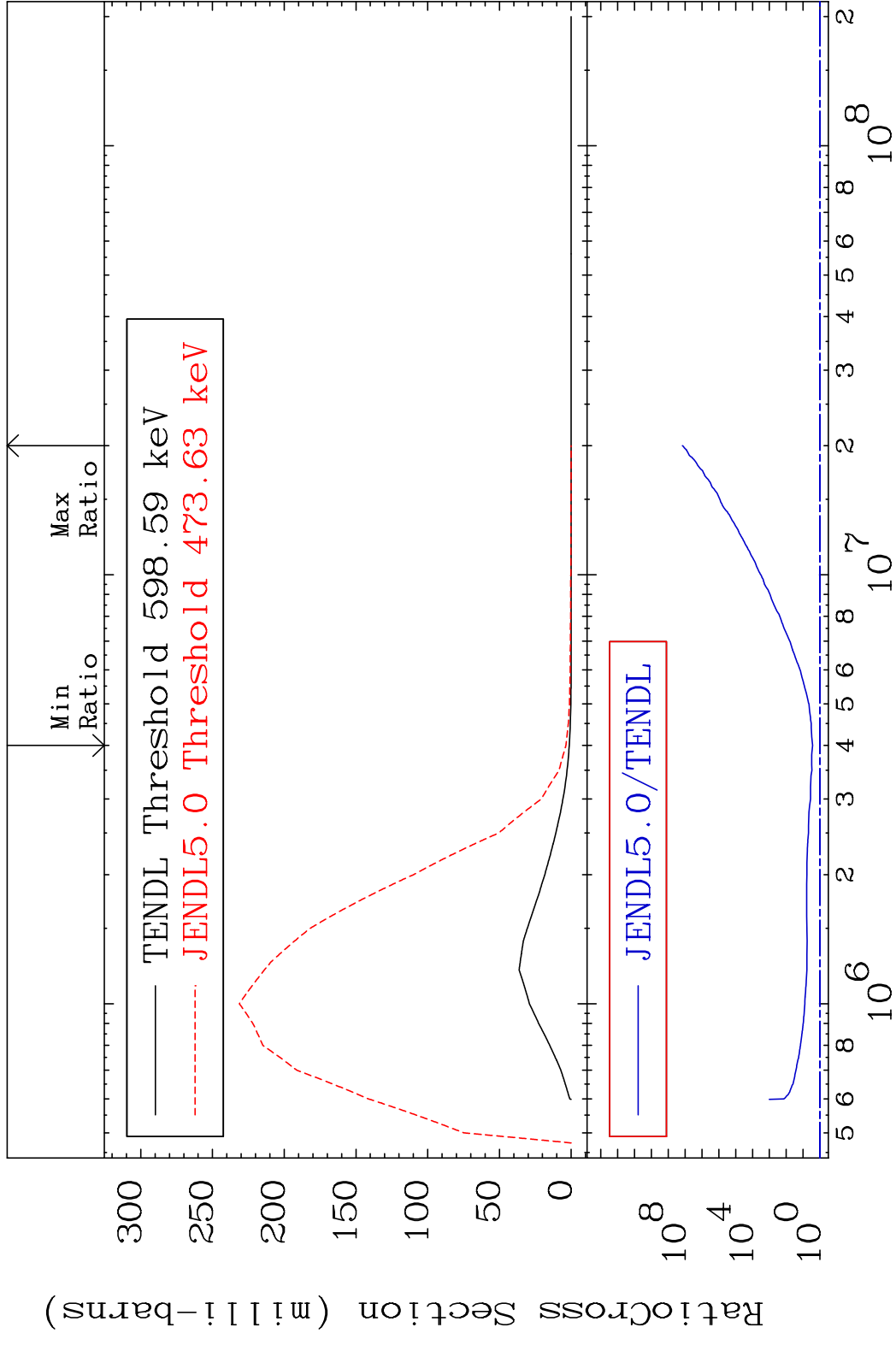
MAT 7246 MT= 58 (n,n') Level 72-Hf-181
 Cross Section 360.8 To 9999. %



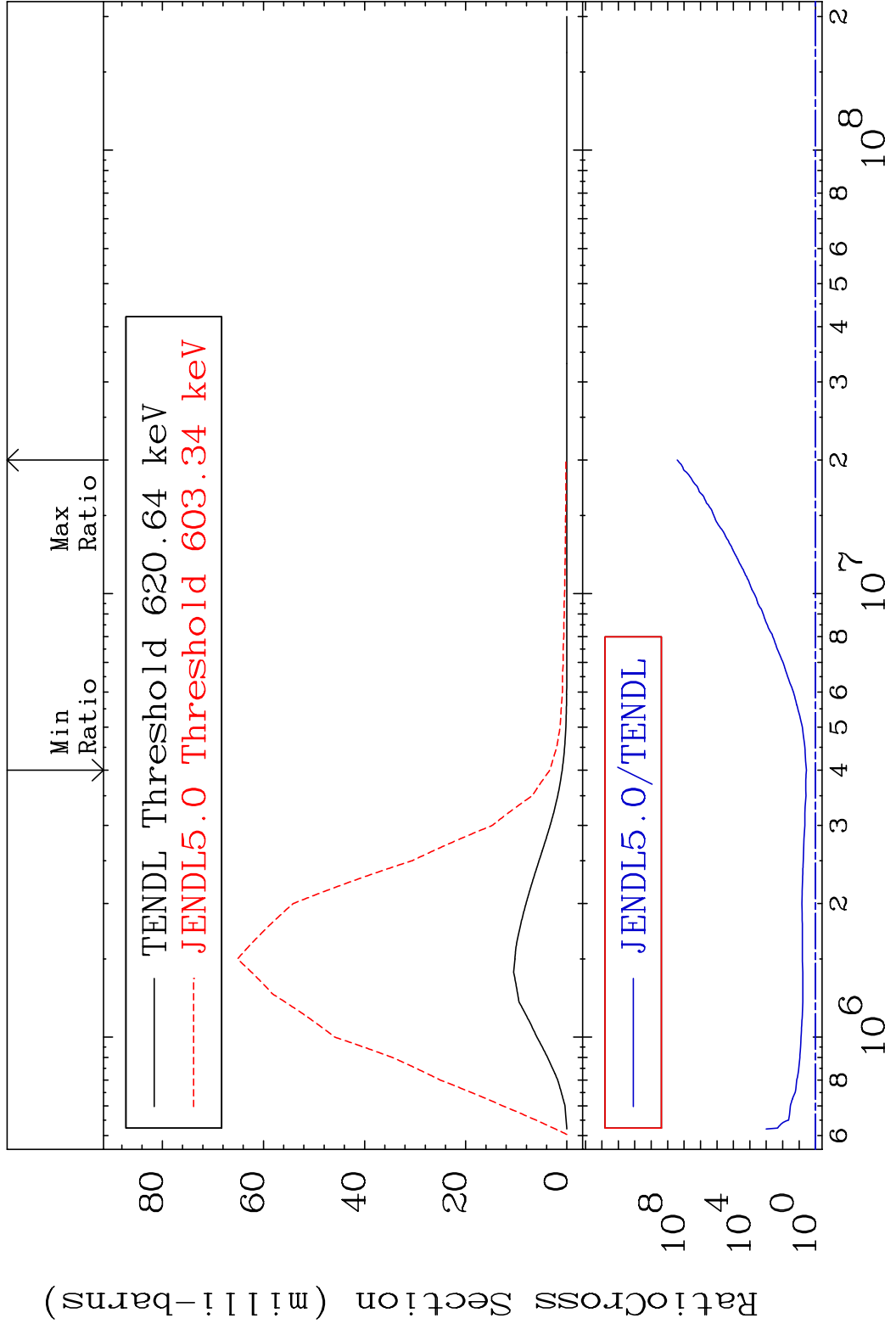
MAT 7246 MT= 59 (n, n') Level 72-Hf-181
 Cross Section 232.4 To 9999. %



MAT 7246 MT= 60 (n, n') Level 72-Hf-181
 Cross Section 173.6 To 9999. %



MAT 7246 MT= 61 (n, n') Level 72-Hf-181
 Cross Section 261.3 To 9999. %

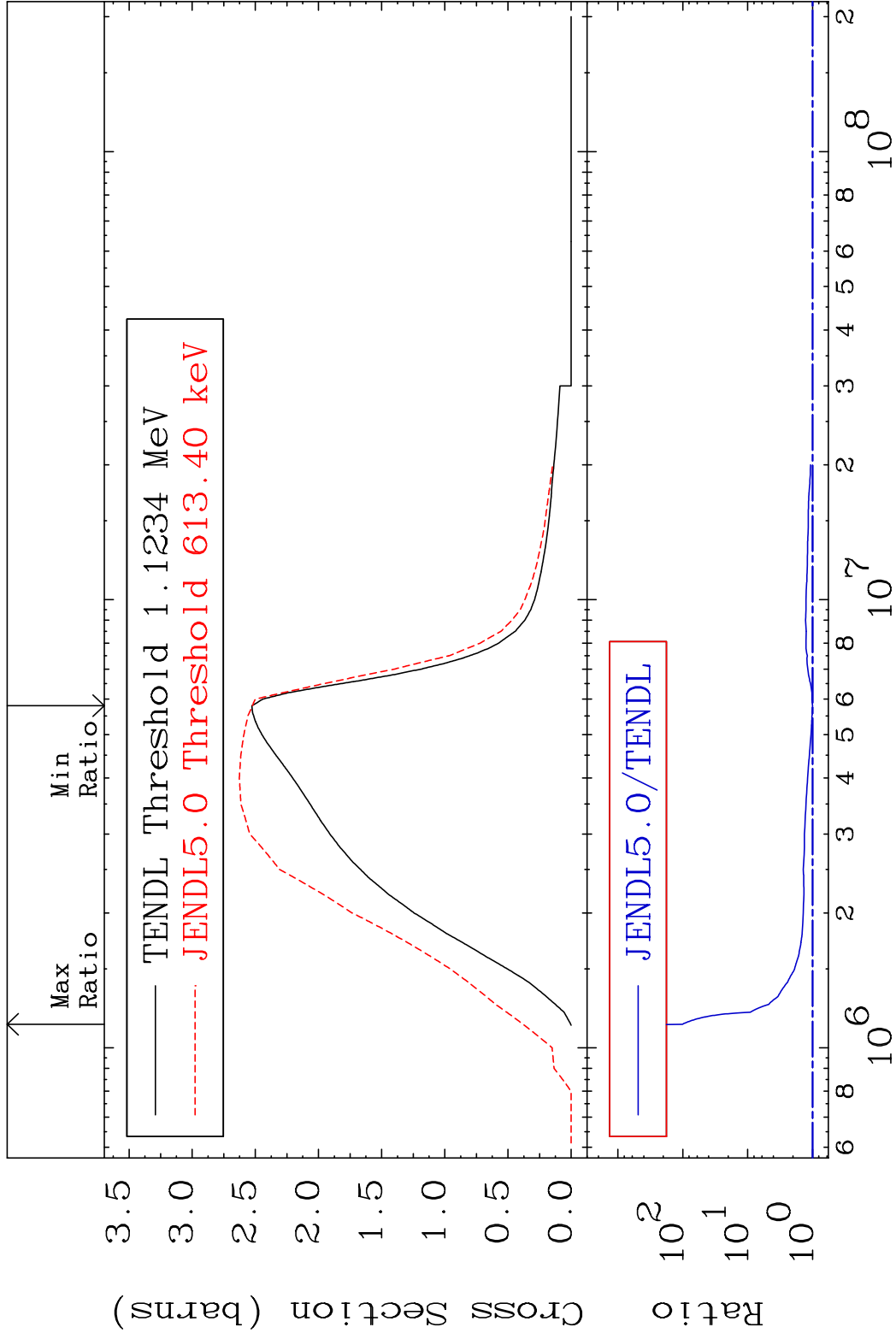


MAT 7246

(n, n') Continuum

72-Hf-181

Cross Section -0.123 To 9999. %



20

Incident Energy (eV)

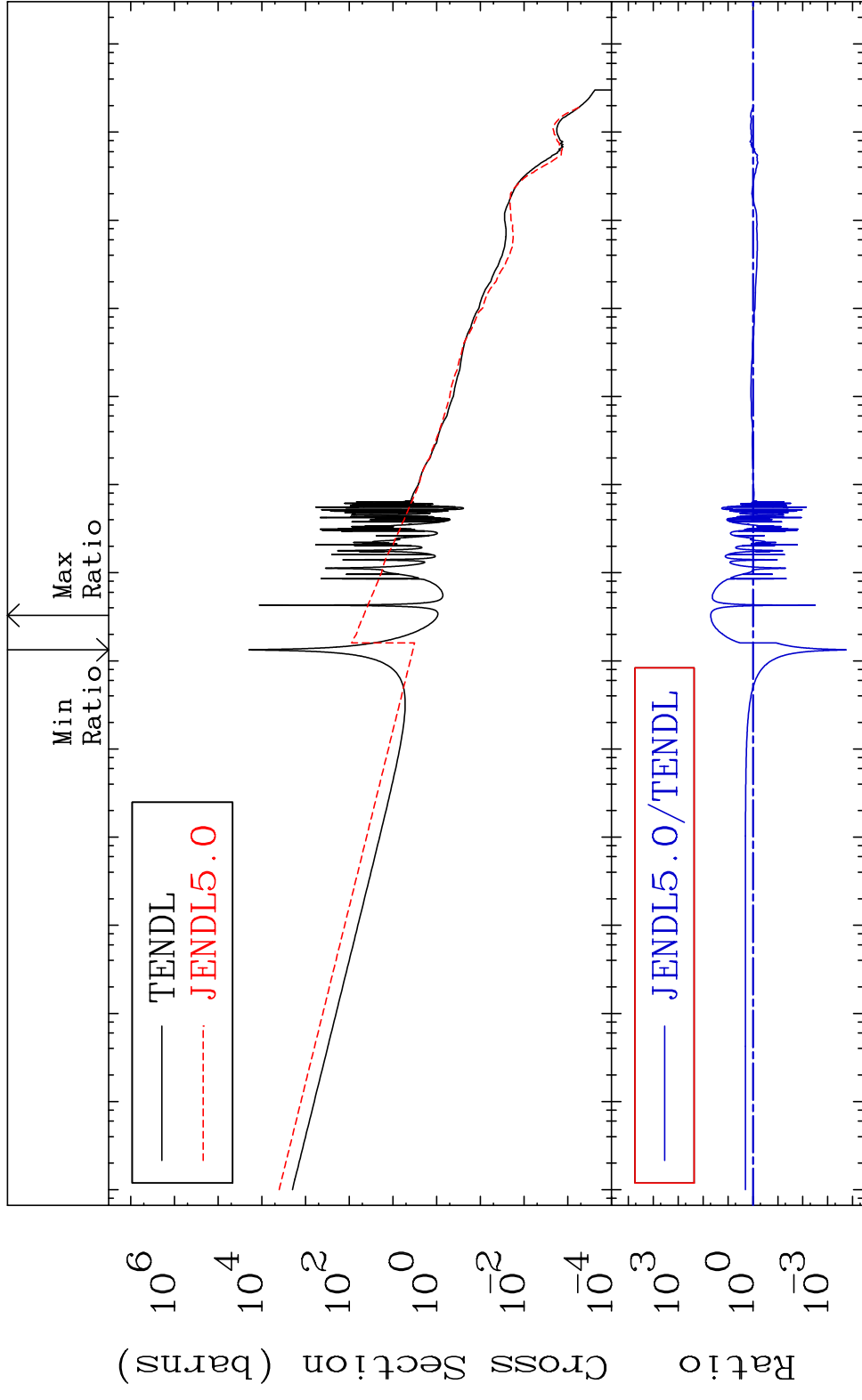
72-Hf-181

MAT 7246

(n, γ)

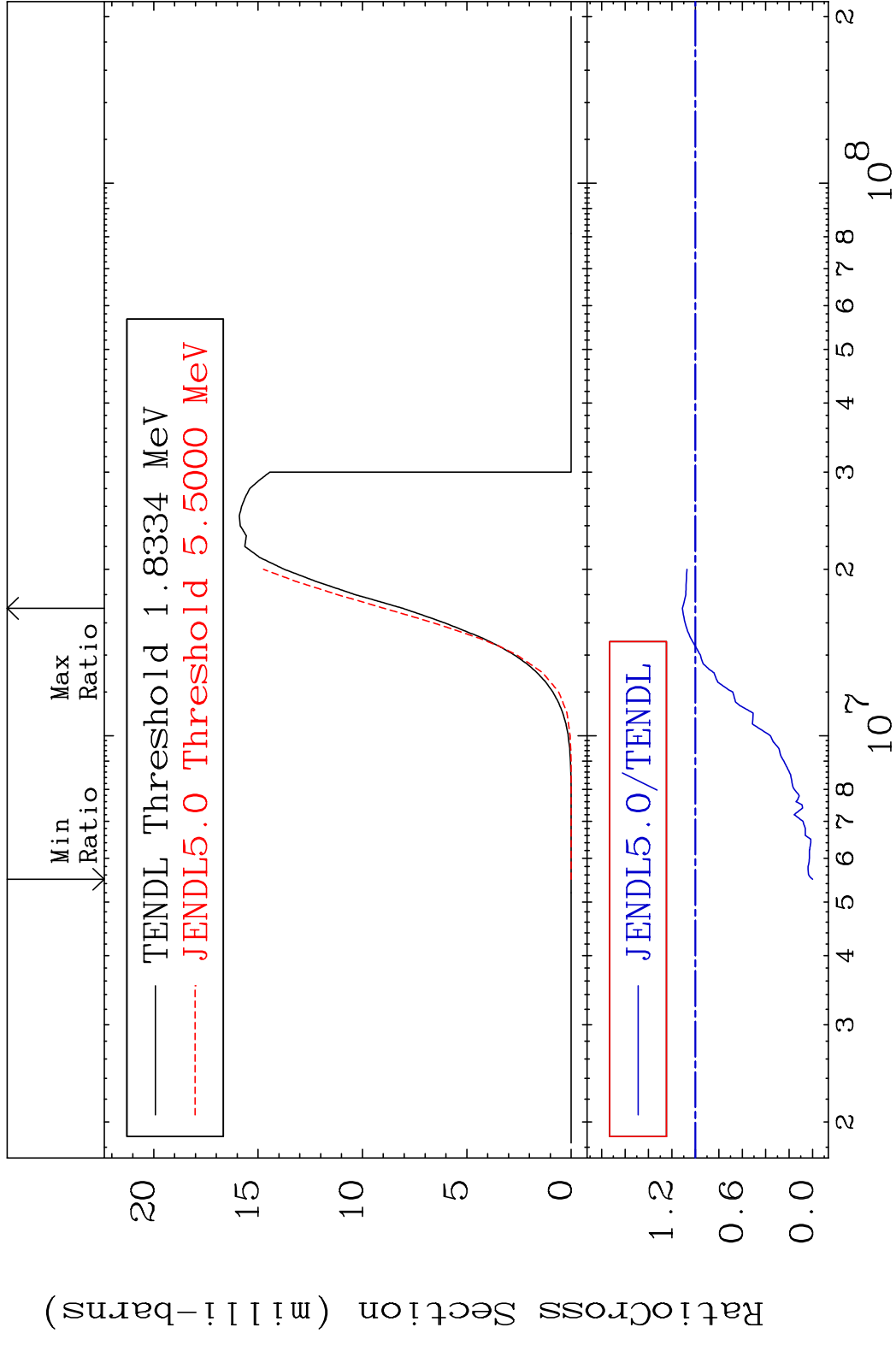
72-Hf-181

Cross Section -99.98 To 4826. %

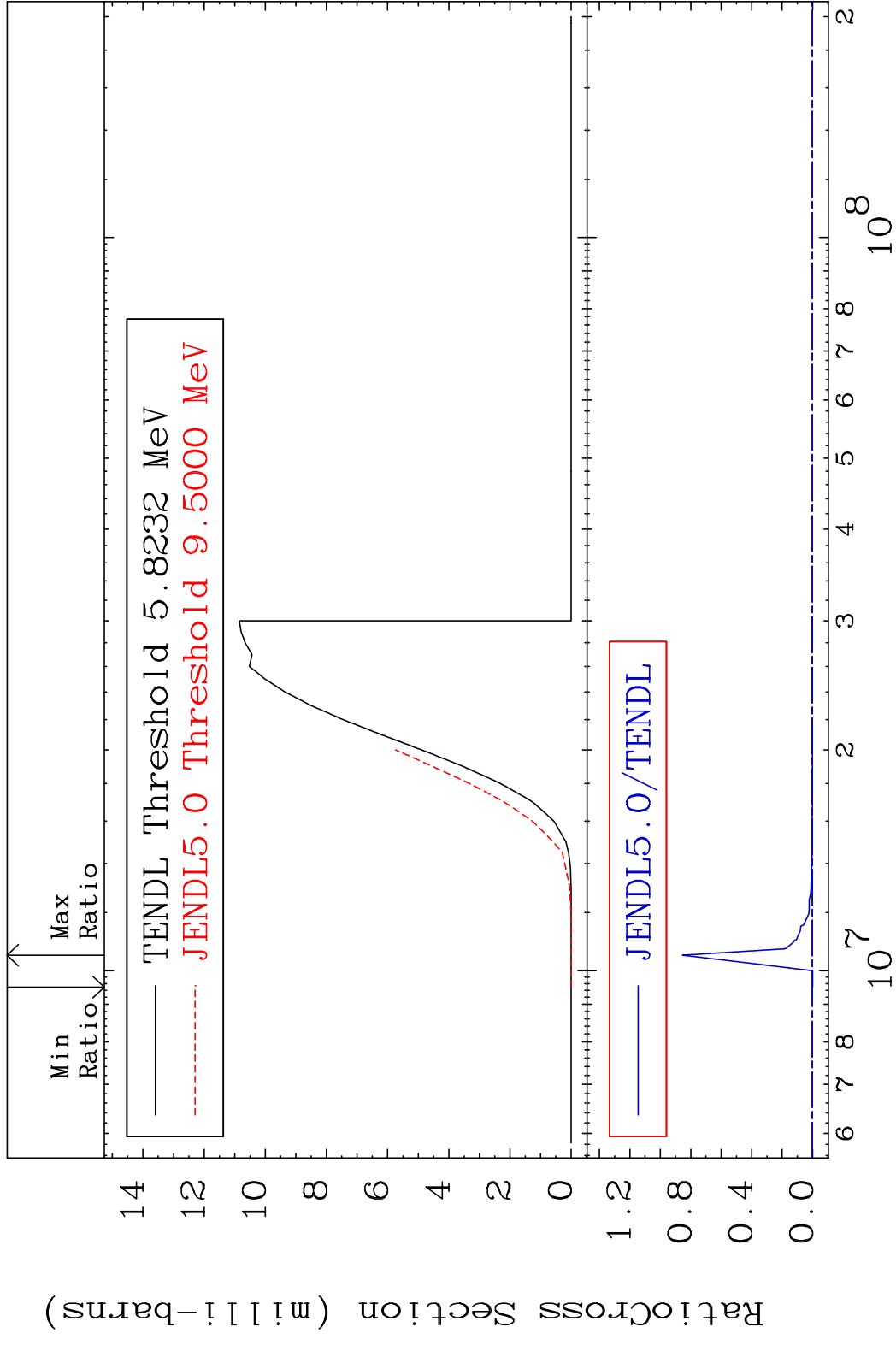


10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻³
10⁰
10⁻³
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

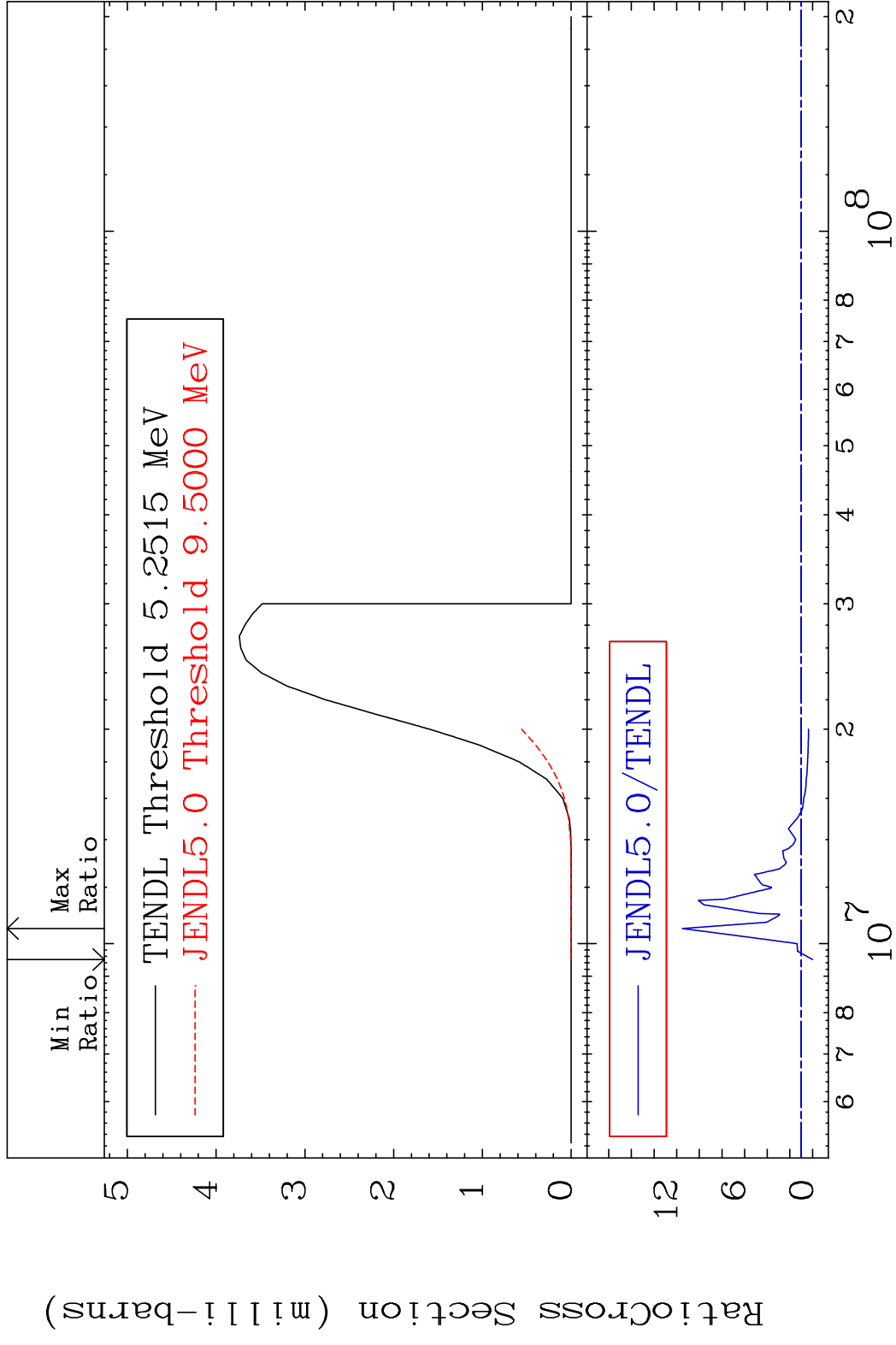
MAT 7246 (n,p) 72-Hf-181
 Cross Section -100.0 To 11.13 %



MAT 7246 (n,d) 72-Hf-181
 Cross Section -100.0 To 9999. %



MAT 7246 (n, t) 72-Hf-181
 Cross Section -100.0 To 1050. %

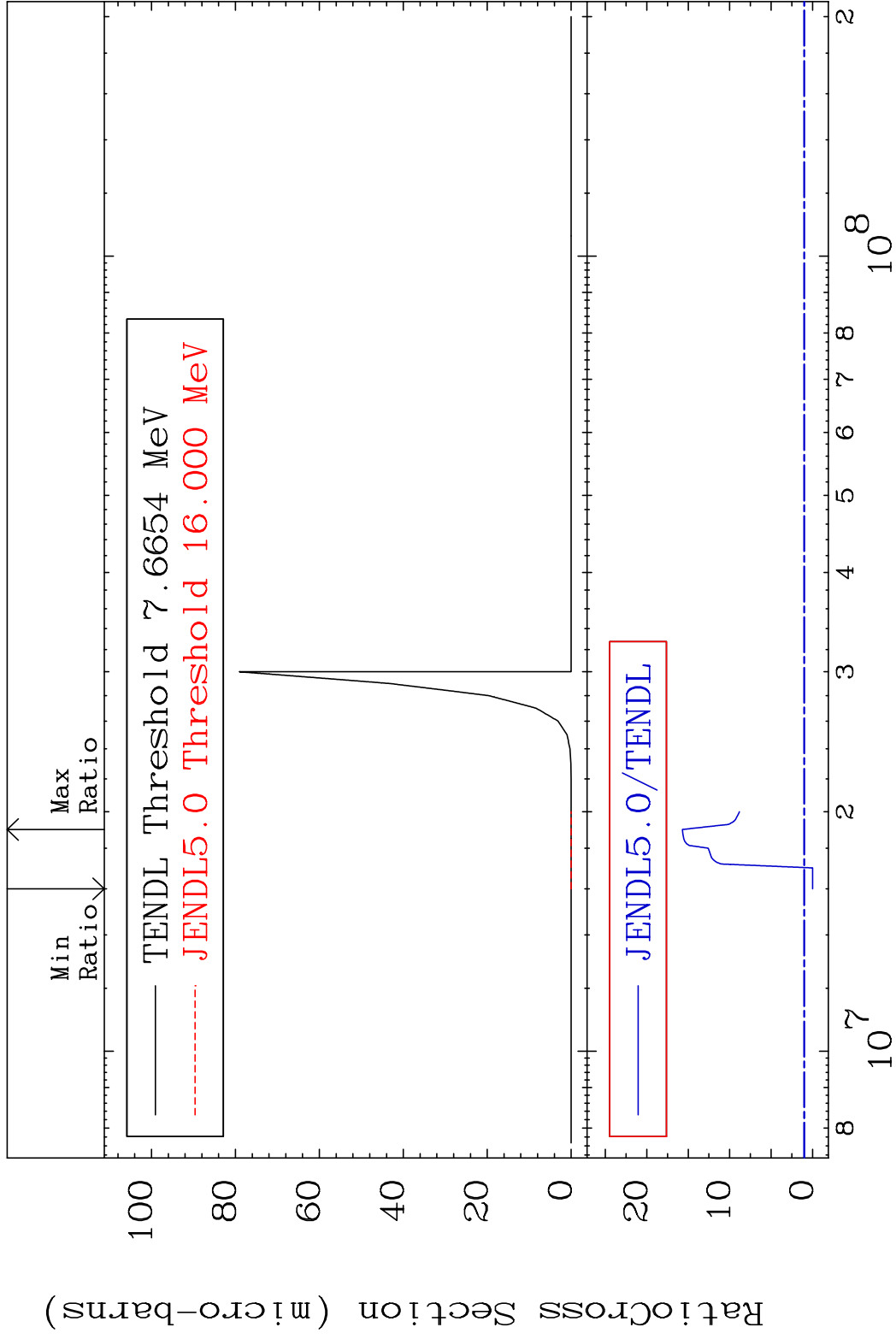


MAT 7246

(n, He-3)

72-Hf-181

Cross Section -100.0 To 1471. %



25

Incident Energy (eV)

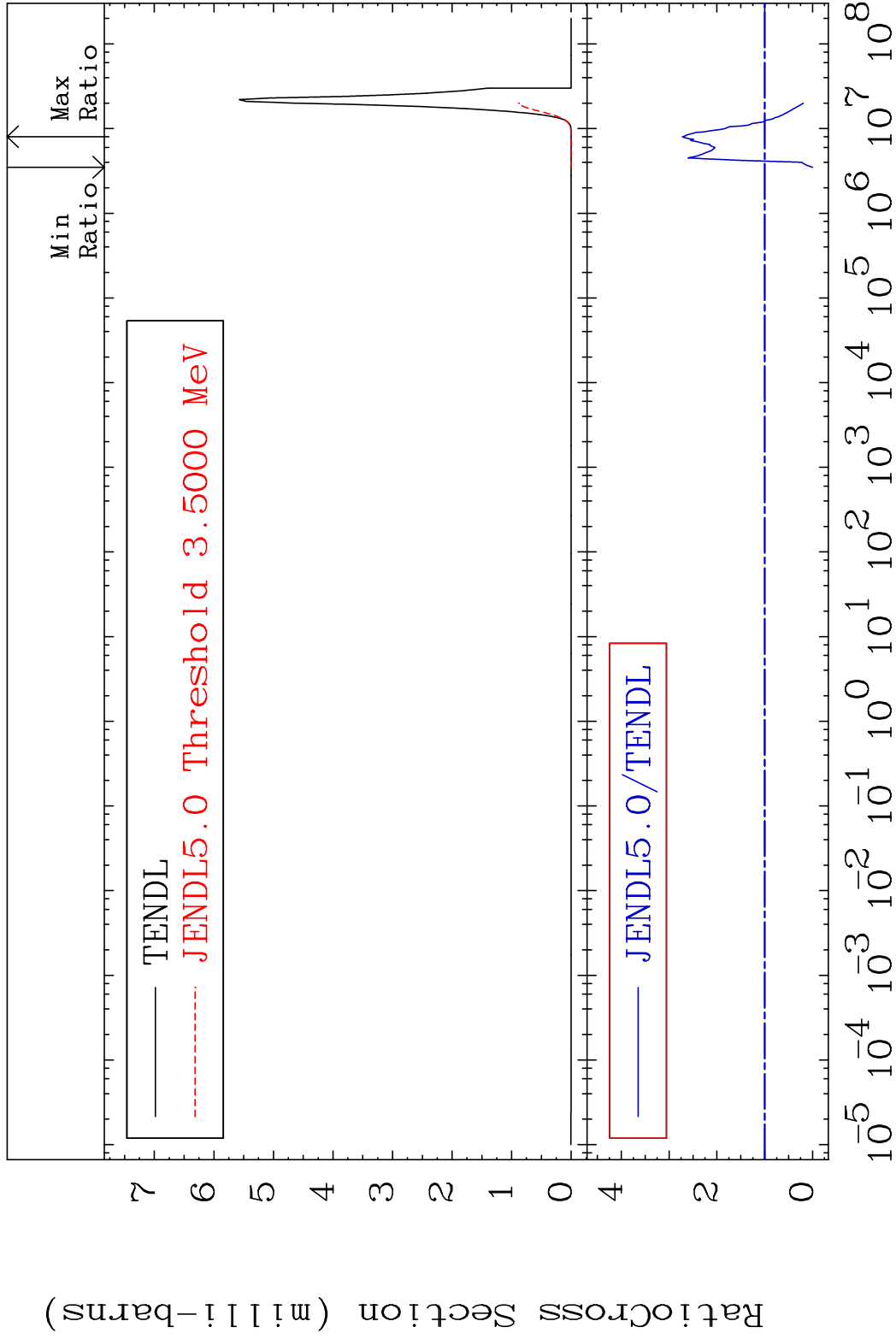
72-Hf-181

MAT 7246

(n, α)

72-Hf-181

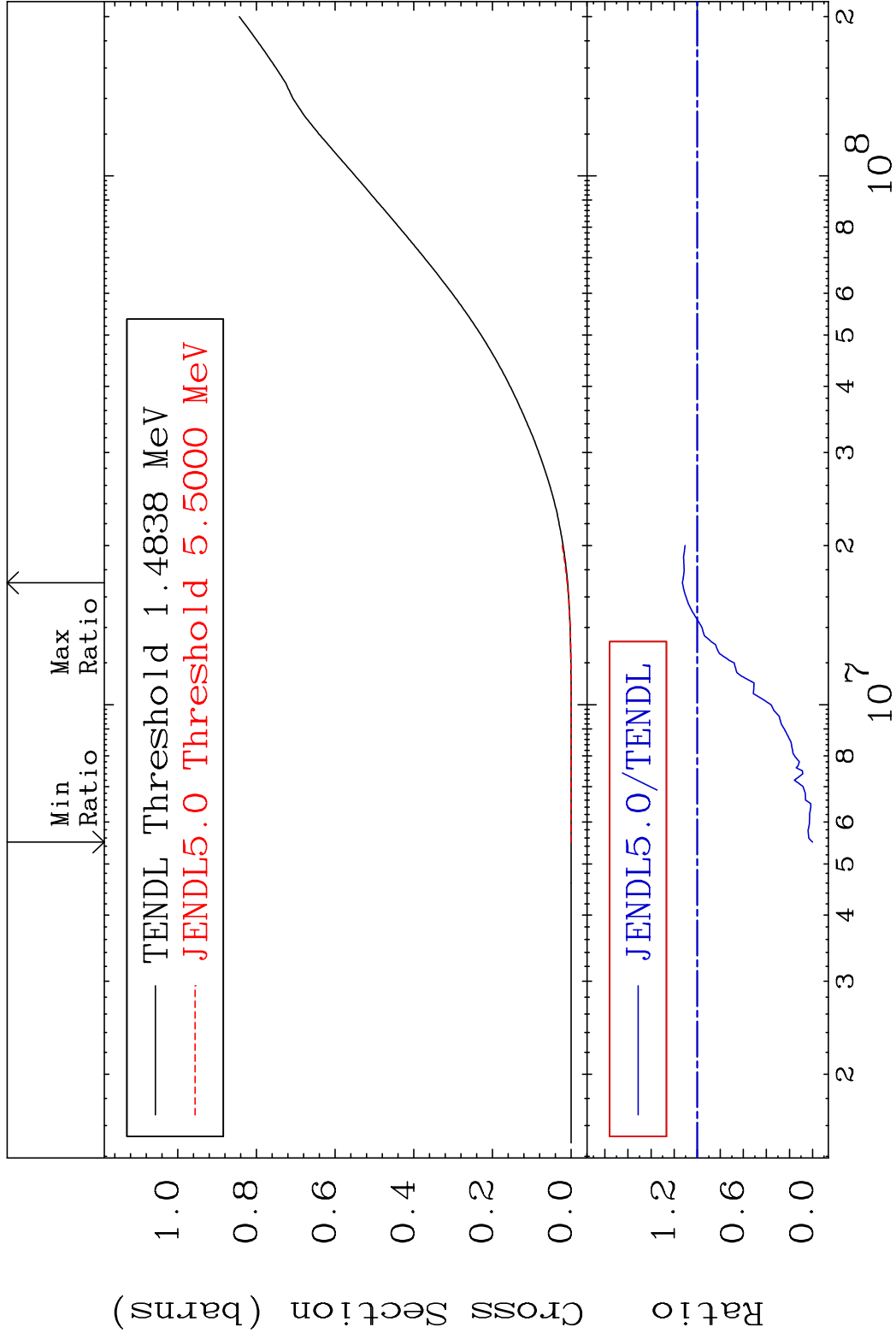
Cross Section -100.0 To 172.3 %



26

Incident Energy (eV)

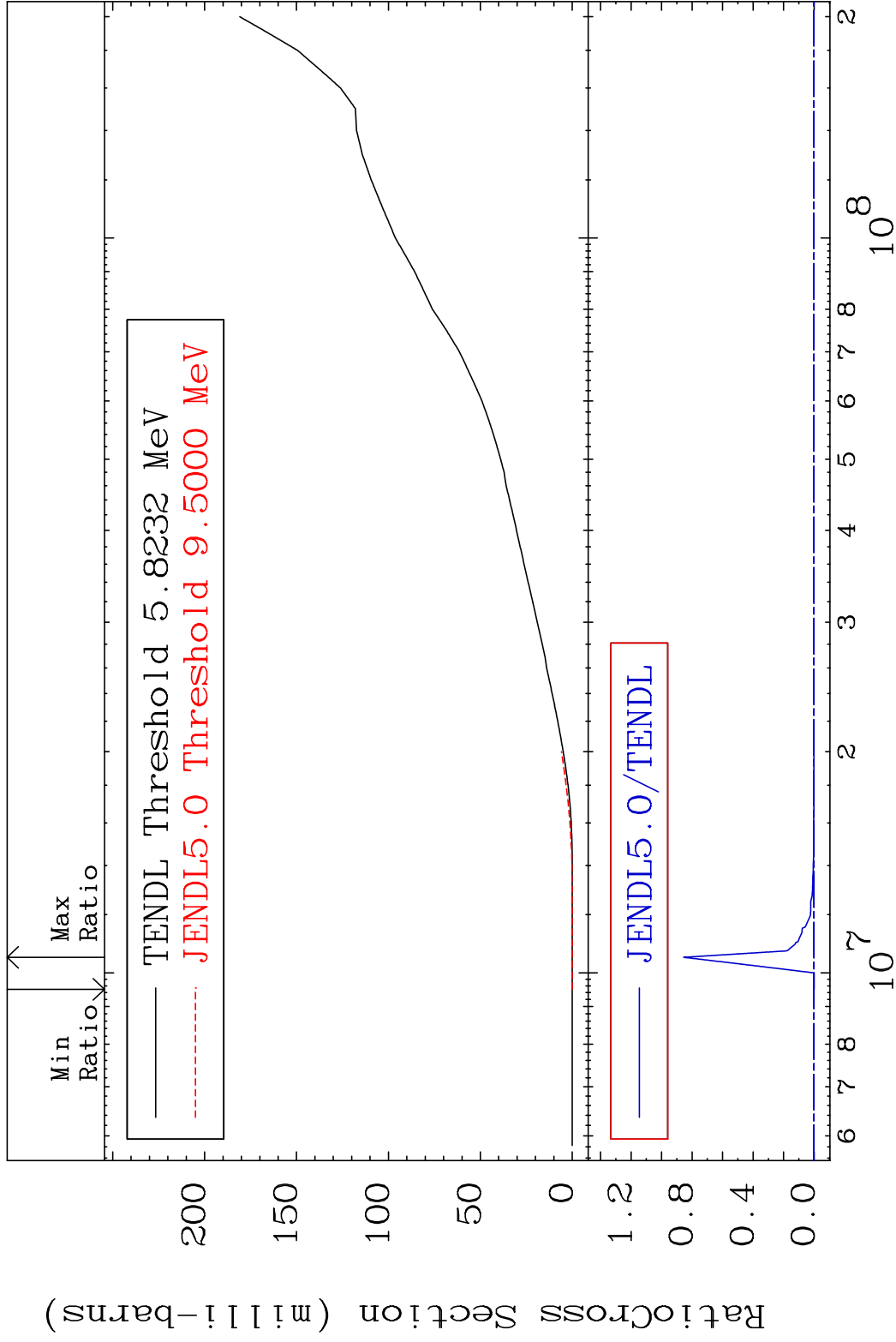
72-Hf-181



MAT 7246

Deuterium Production 72-Hf-181

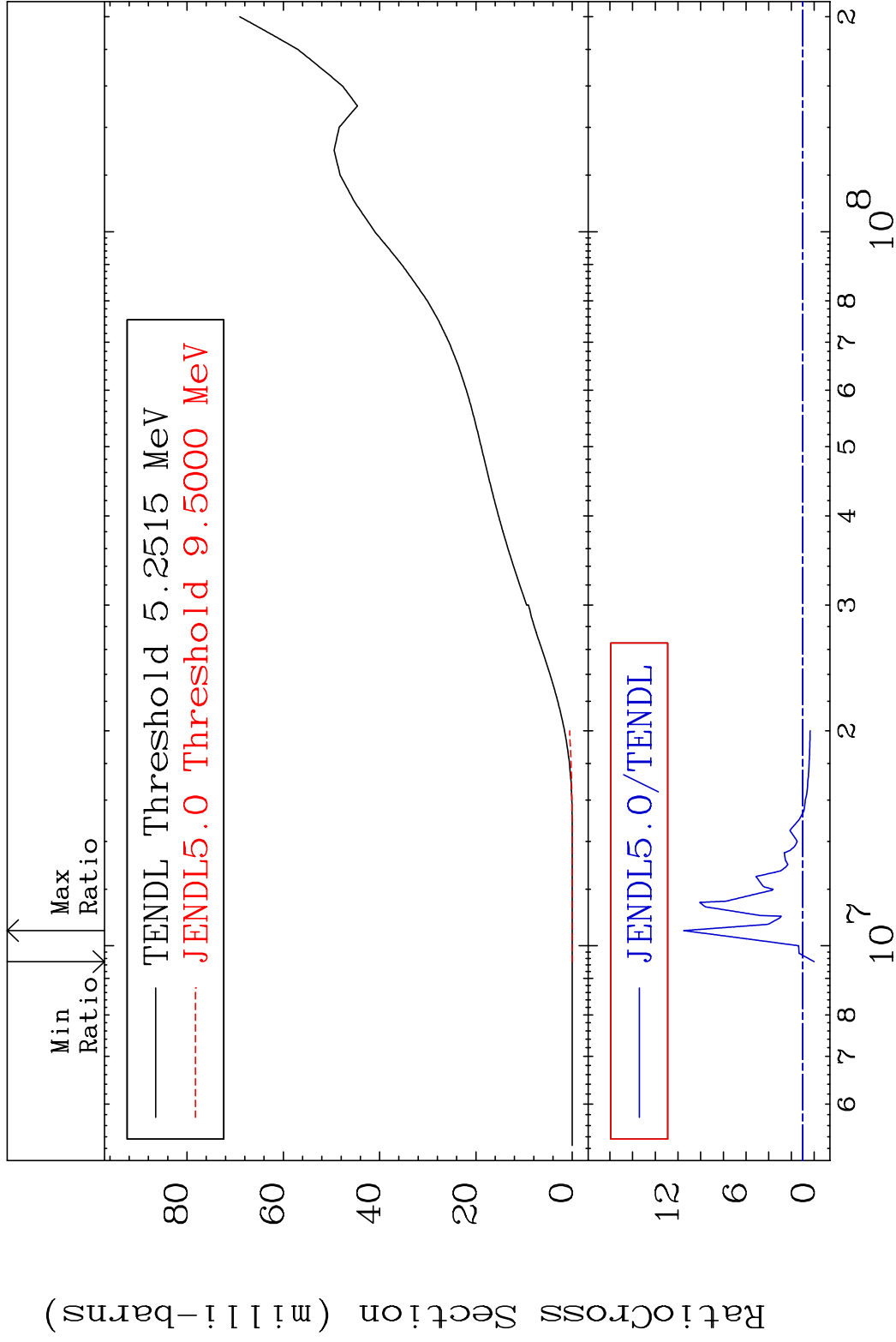
Cross Section -100.0 To 9999. %



MAT 7246

Tritium Production 72-Hf-181

Cross Section -100.0 To 1050. %



29

Incident Energy (eV)

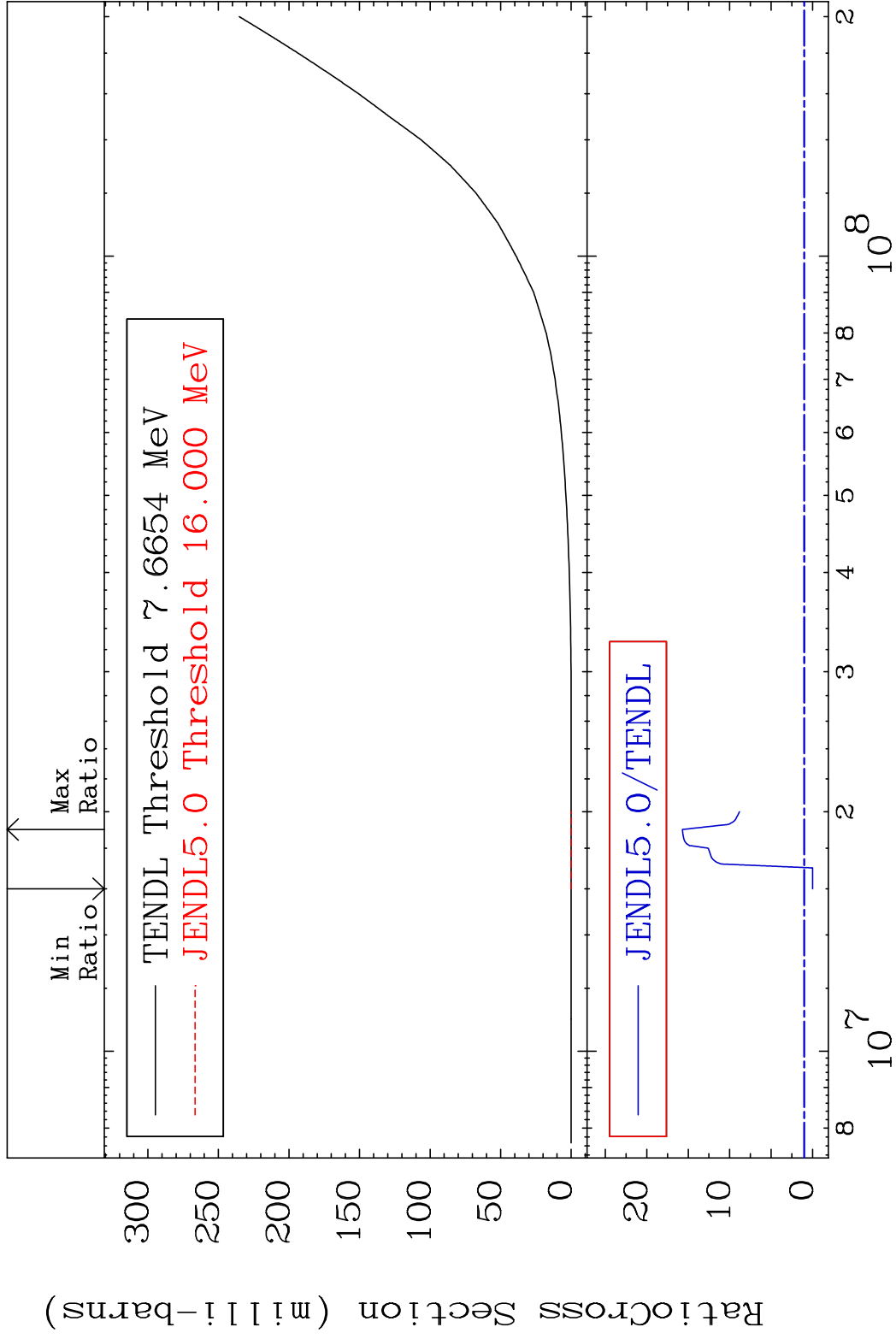
72-Hf-181

MAT 7246

He-3 Production

72-Hf-181

Cross Section -100.0 To 1471. %



30

Incident Energy (eV)

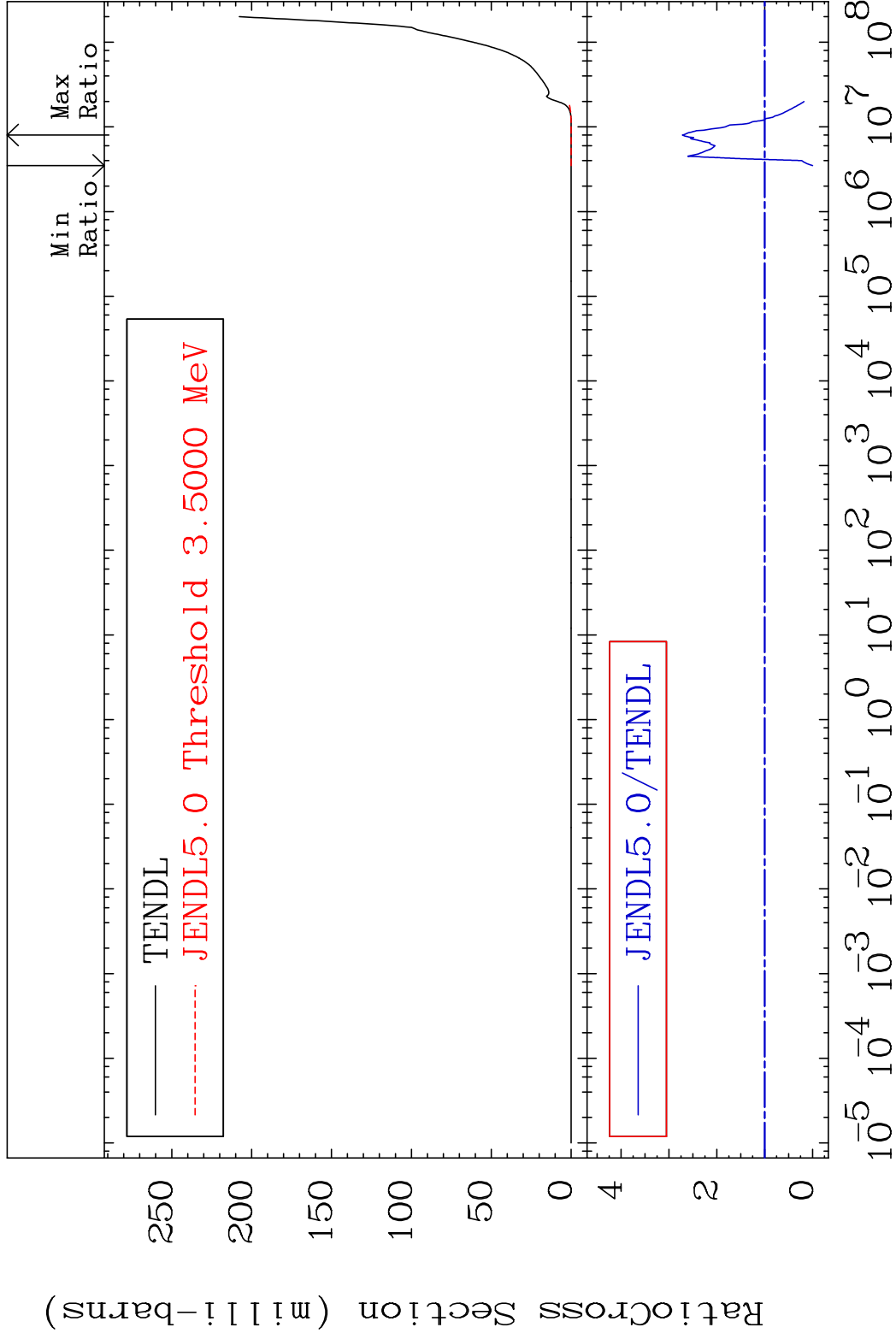
72-Hf-181

MAT 7246

He-4 Production

72-Hf-181

Cross Section -100.0 To 172.1 %

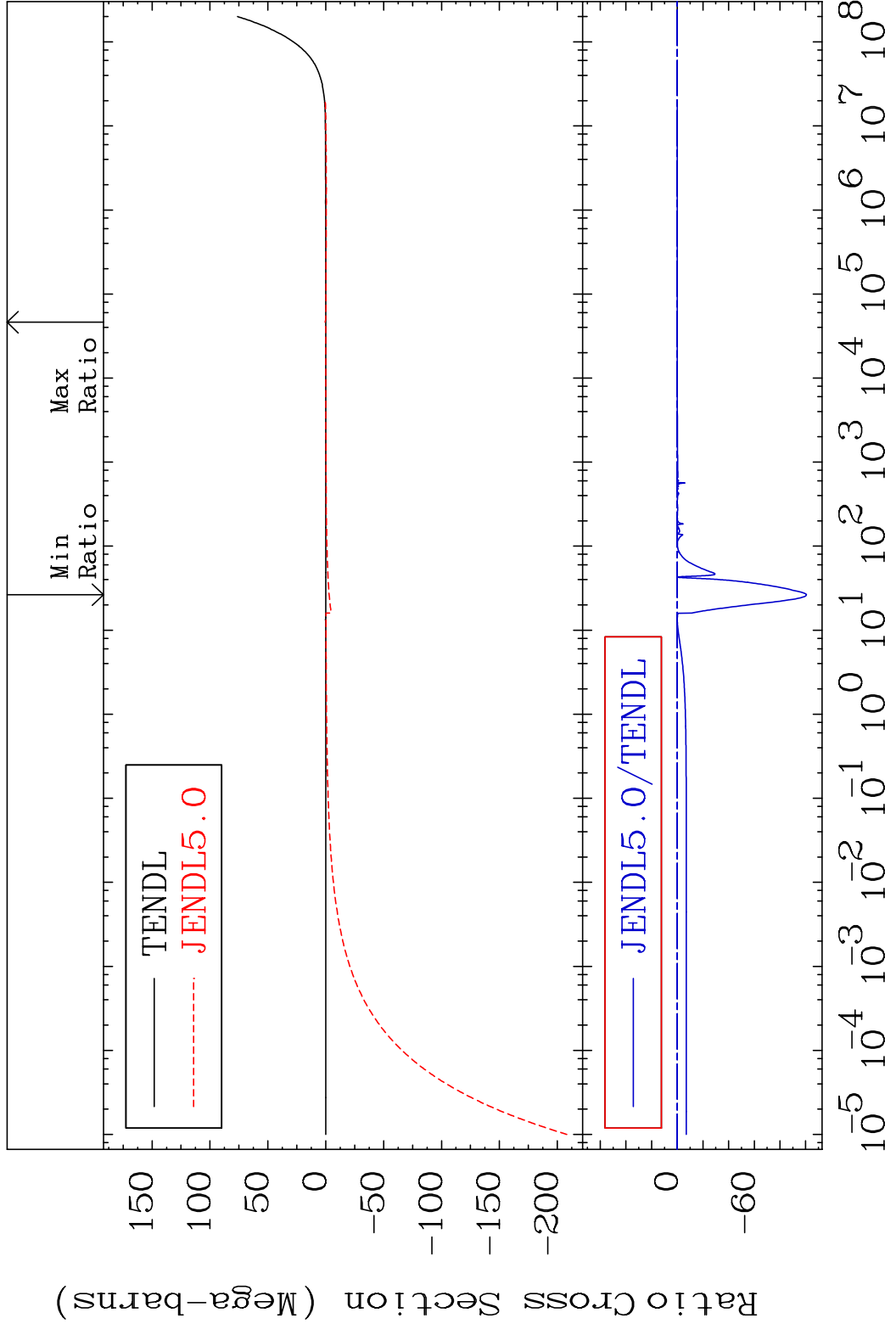


31

Incident Energy (eV)

72-Hf-181

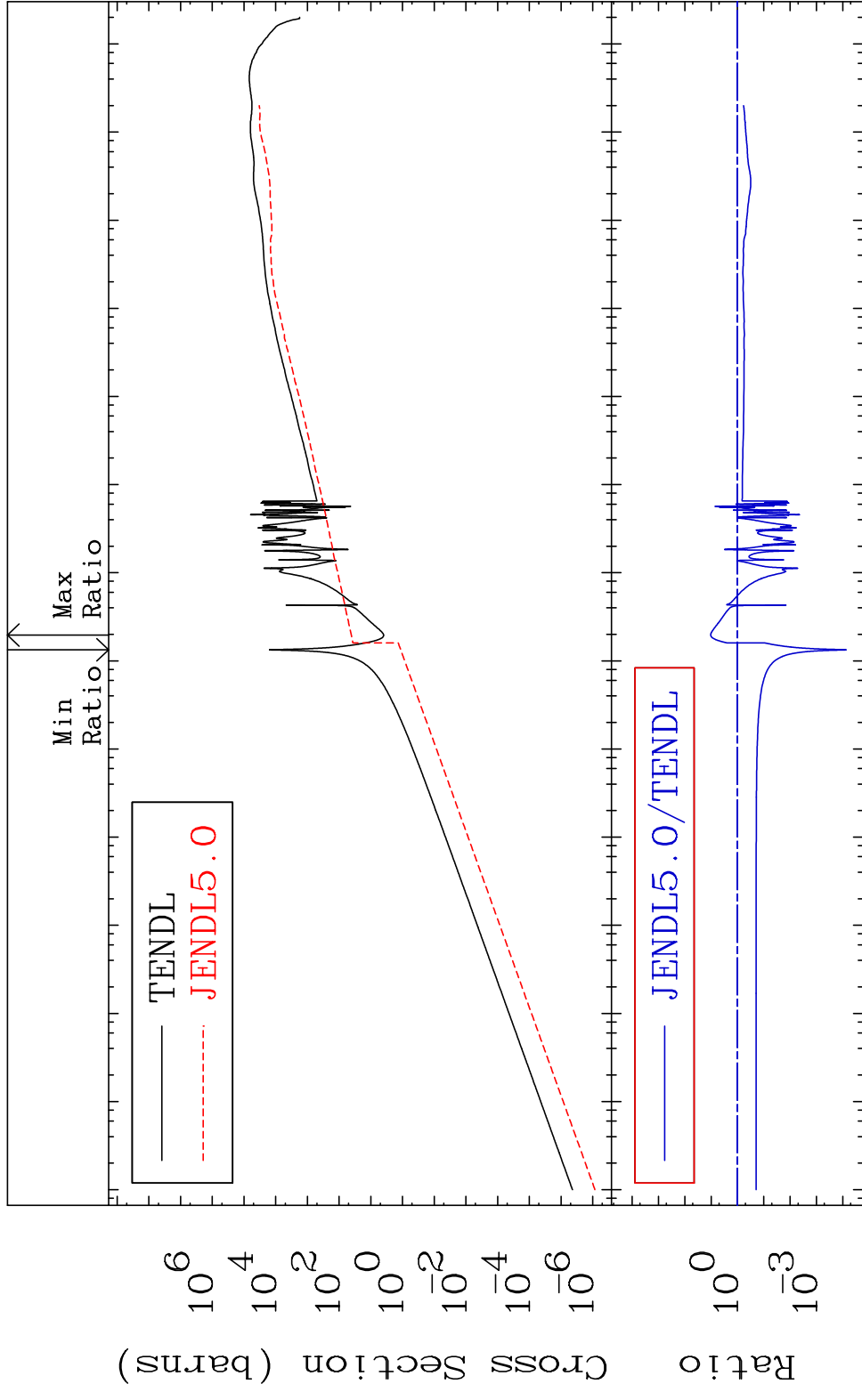
MAT 7246 Kerma total (eV-barns) 72-Hf-181
 Cross Section -9999. To 7109. %



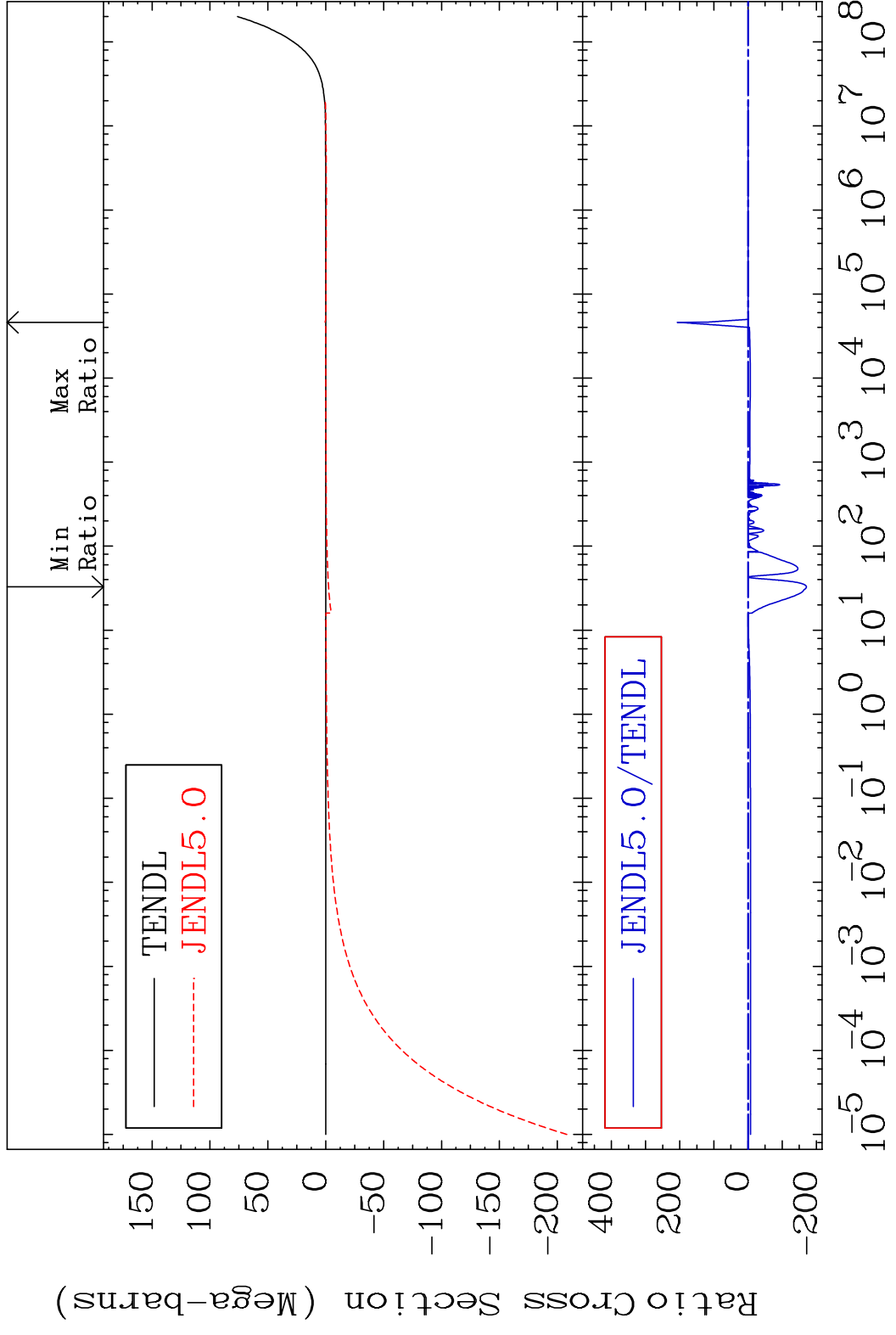
MAT 7246

Kerma elastic
Cross Section -99.99 To 936.6 %

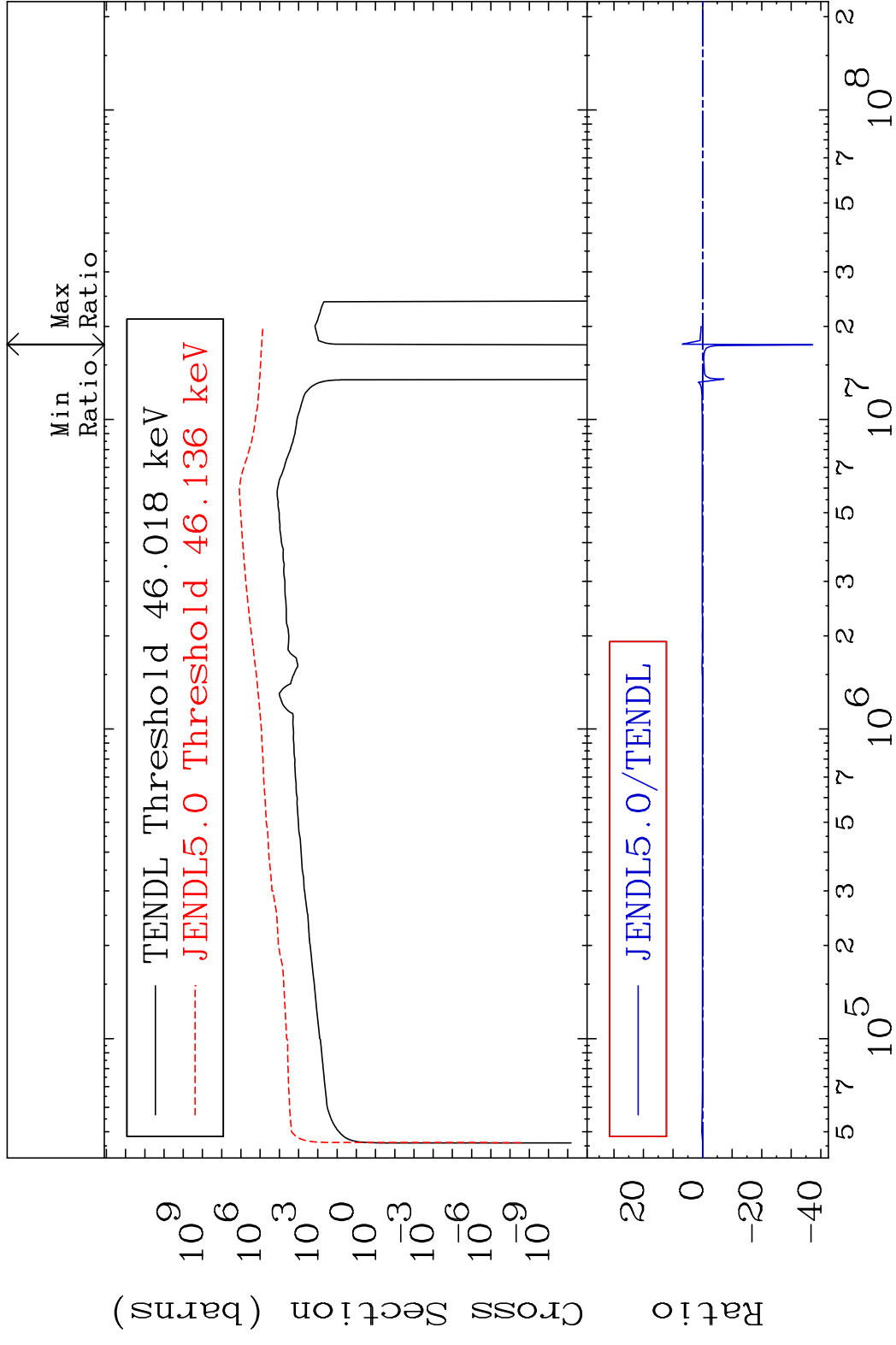
72-Hf-181



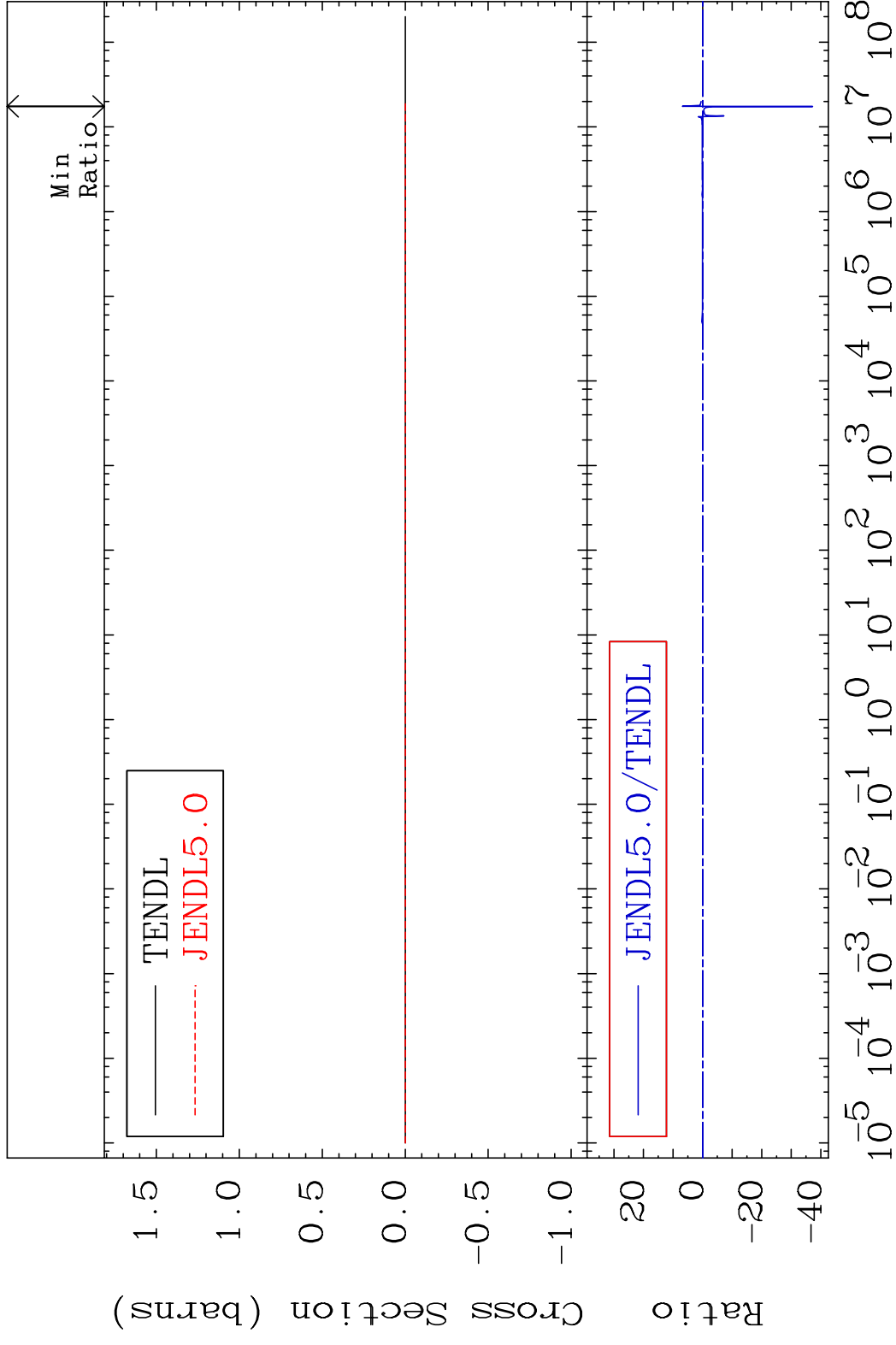
MAT 7246 Kerma non-elastic (all but mt2) 72-Hf-181
 Cross Section -9999. To 9999. %



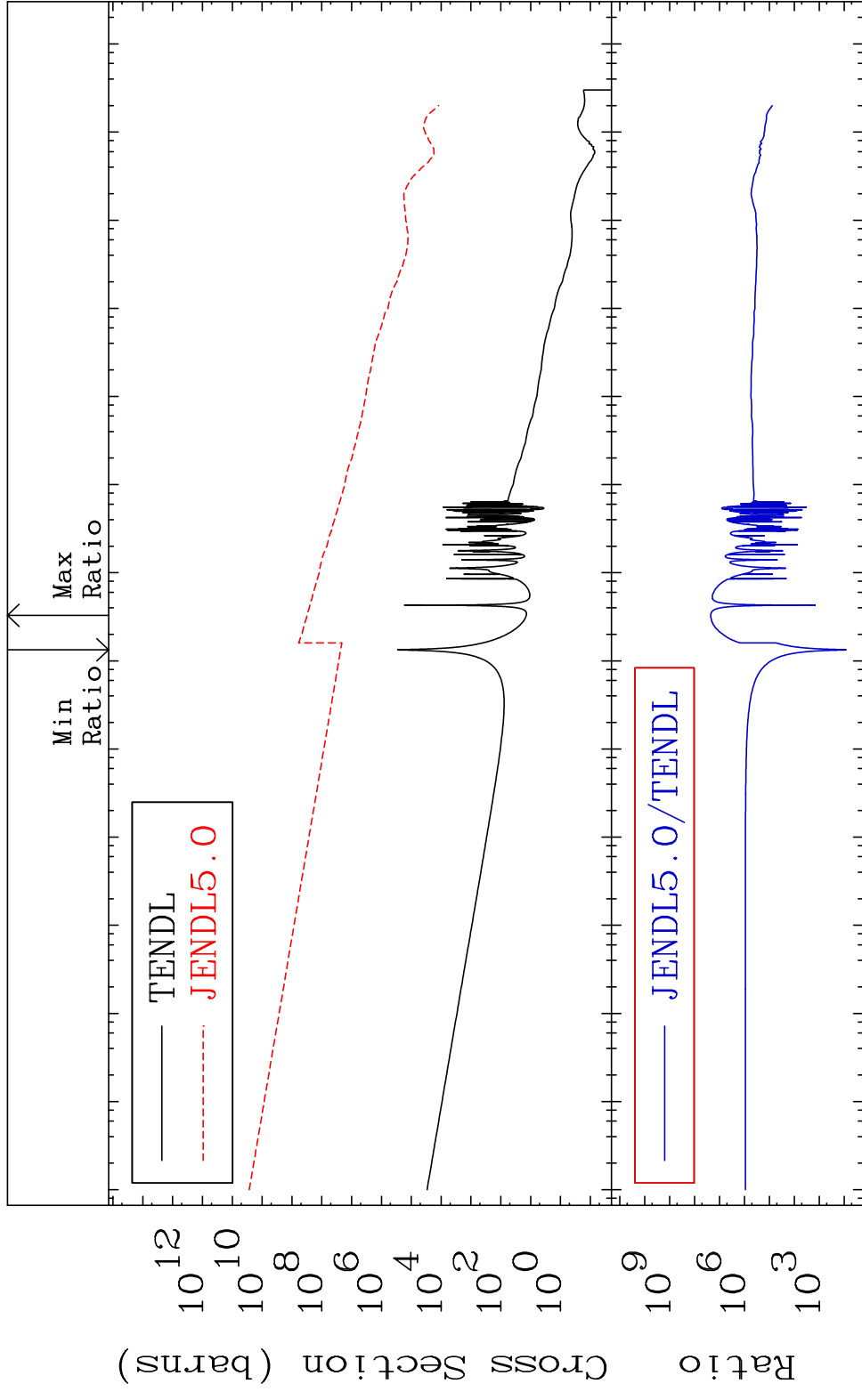
MAT 7246 Kerma inelastic (mt51-91) 72-Hf-181
 Cross Section -9999. To 9999. %



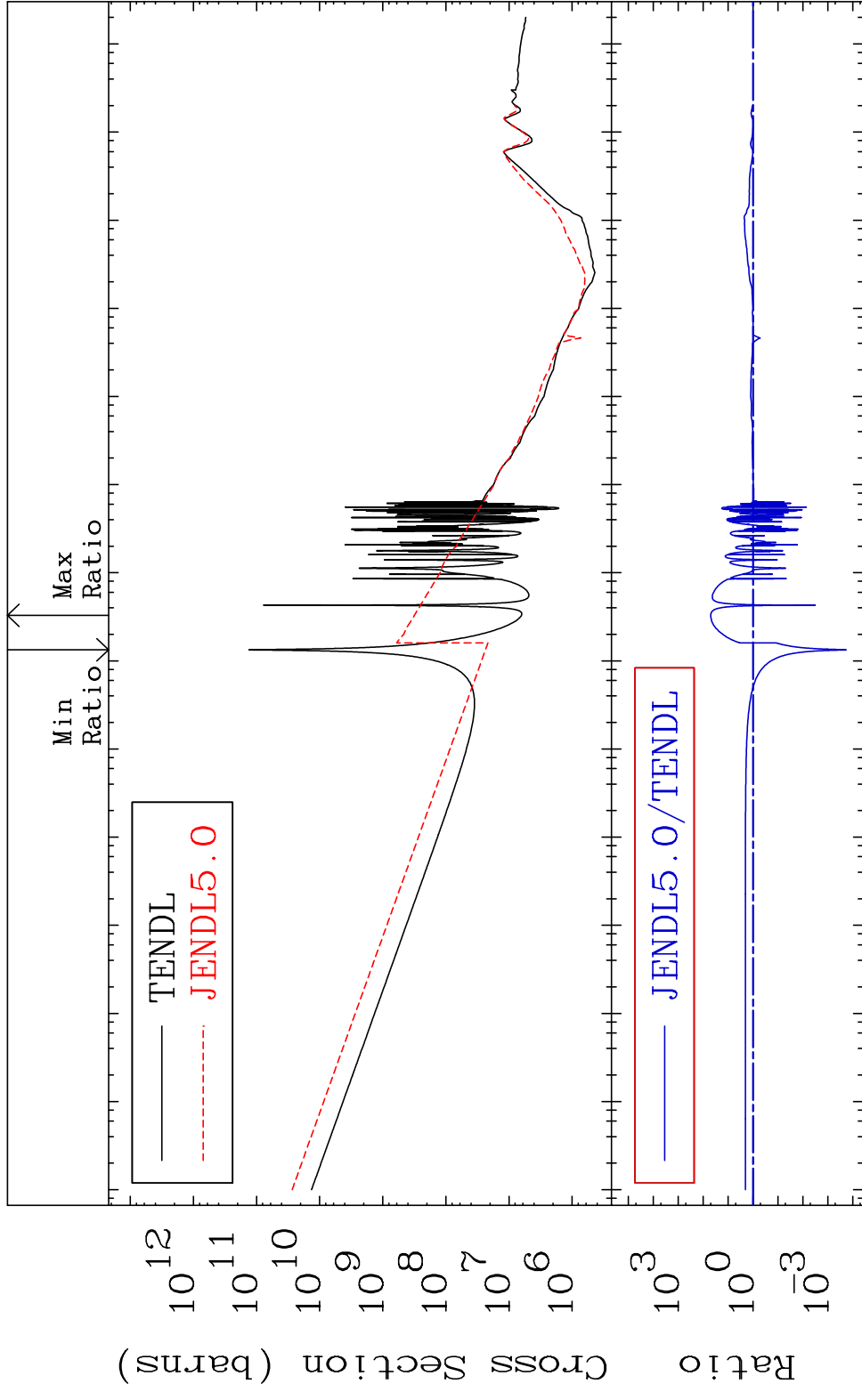
MAT 7246 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-181
 Cross Section -9999. To 9999. %



MAT 7246 Kerma capture (mt102) 72-Hf-181
 Cross Section 8063. To 9999. %

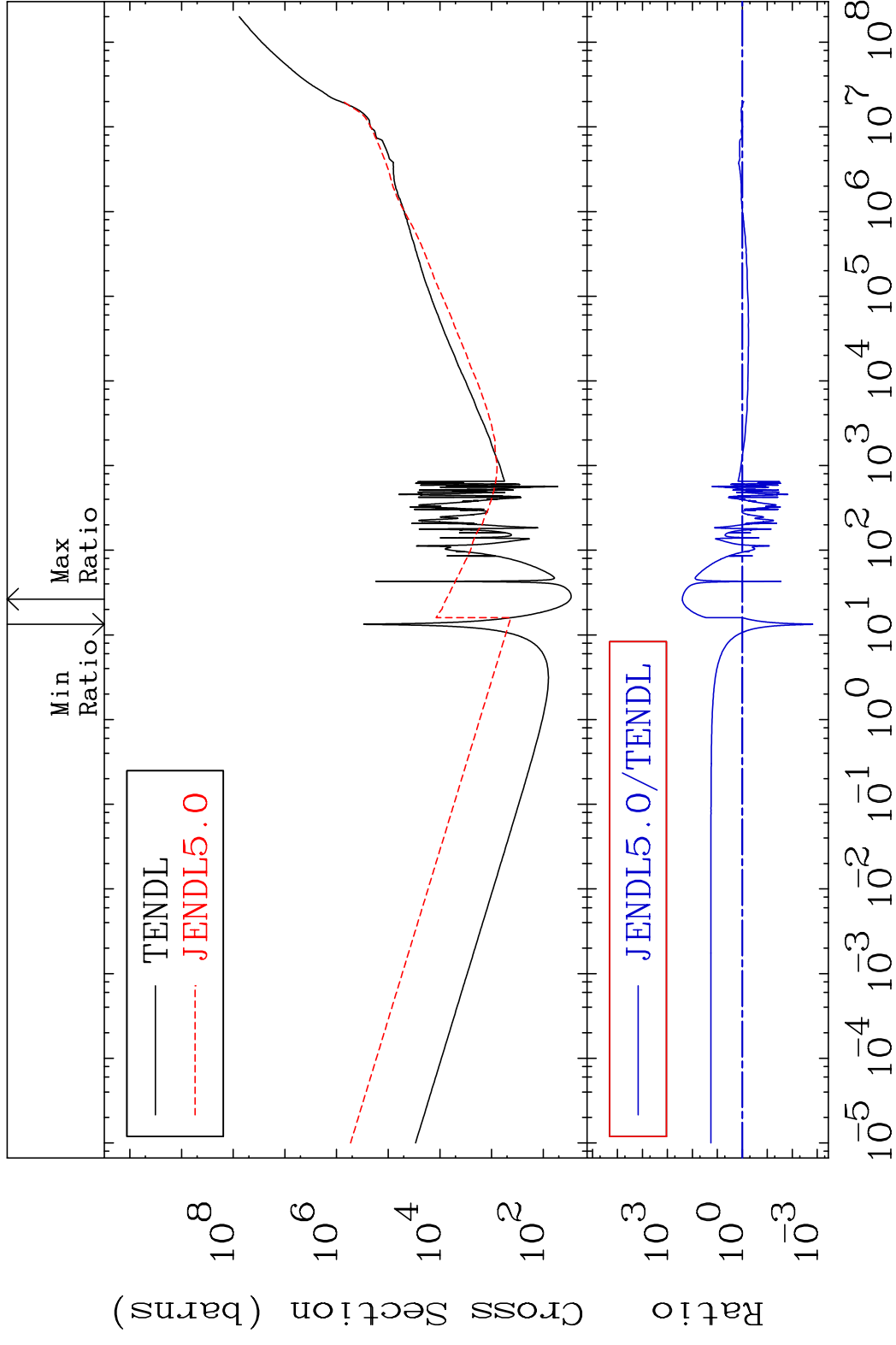


MAT 7246 Total photon (eV-barns) 72-Hf-181
 Cross Section -99.98 To 4864. %

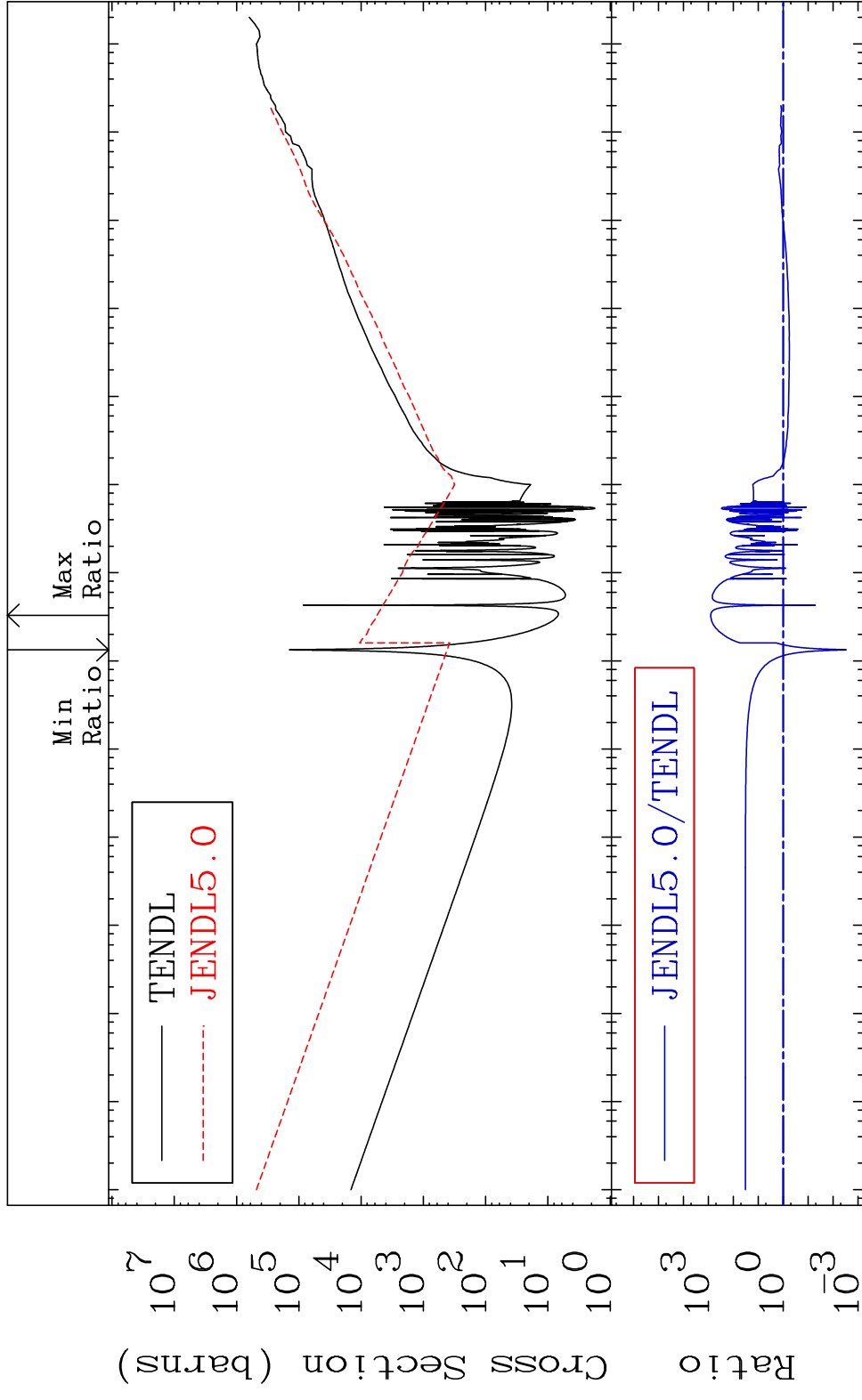


38 Incident Energy (eV) 72-Hf-181

MAT 7246 Total kinematic kerma (high limit) 72-Hf-181
 Cross Section -99.85 To 9999. %

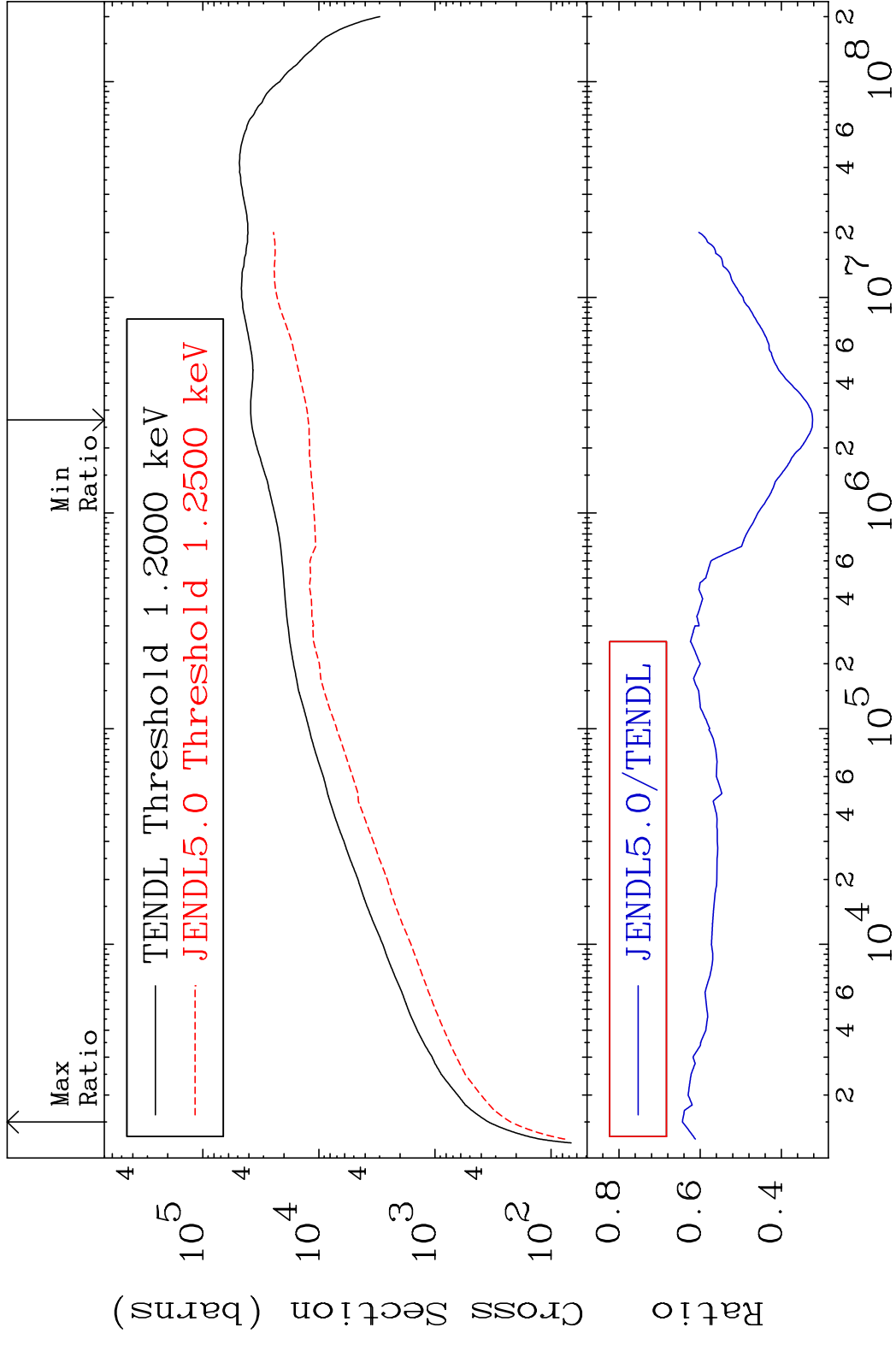


MAT 7246 Dpa total (eV-barns) 72-Hf-181
 Cross Section -99.71 To 9999. %

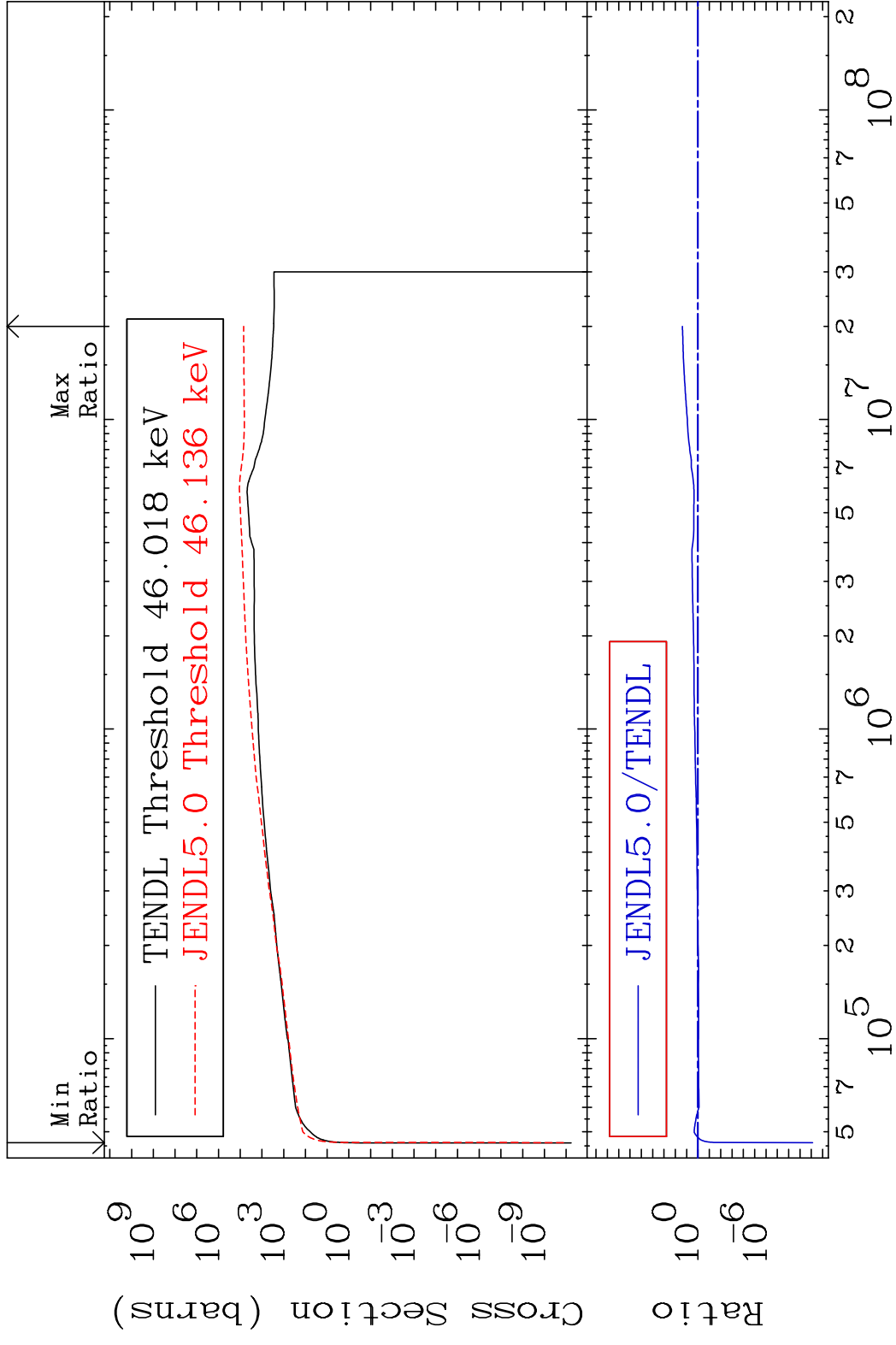


40 Incident Energy (eV) 72-Hf-181

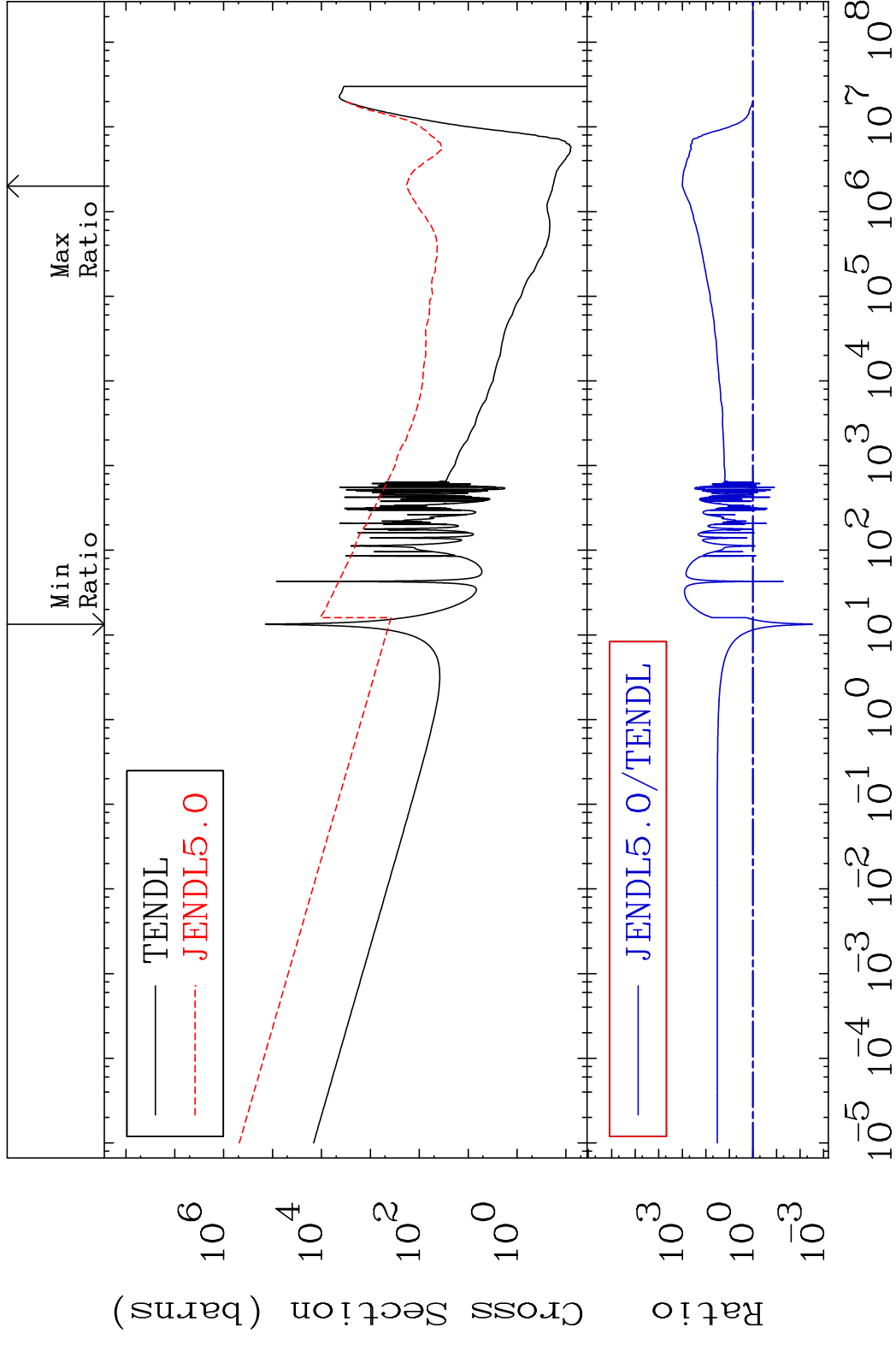
MAT 7246 Dpa elastic (mt2) 72-Hf-181
 Cross Section -67.68 To -35.60%



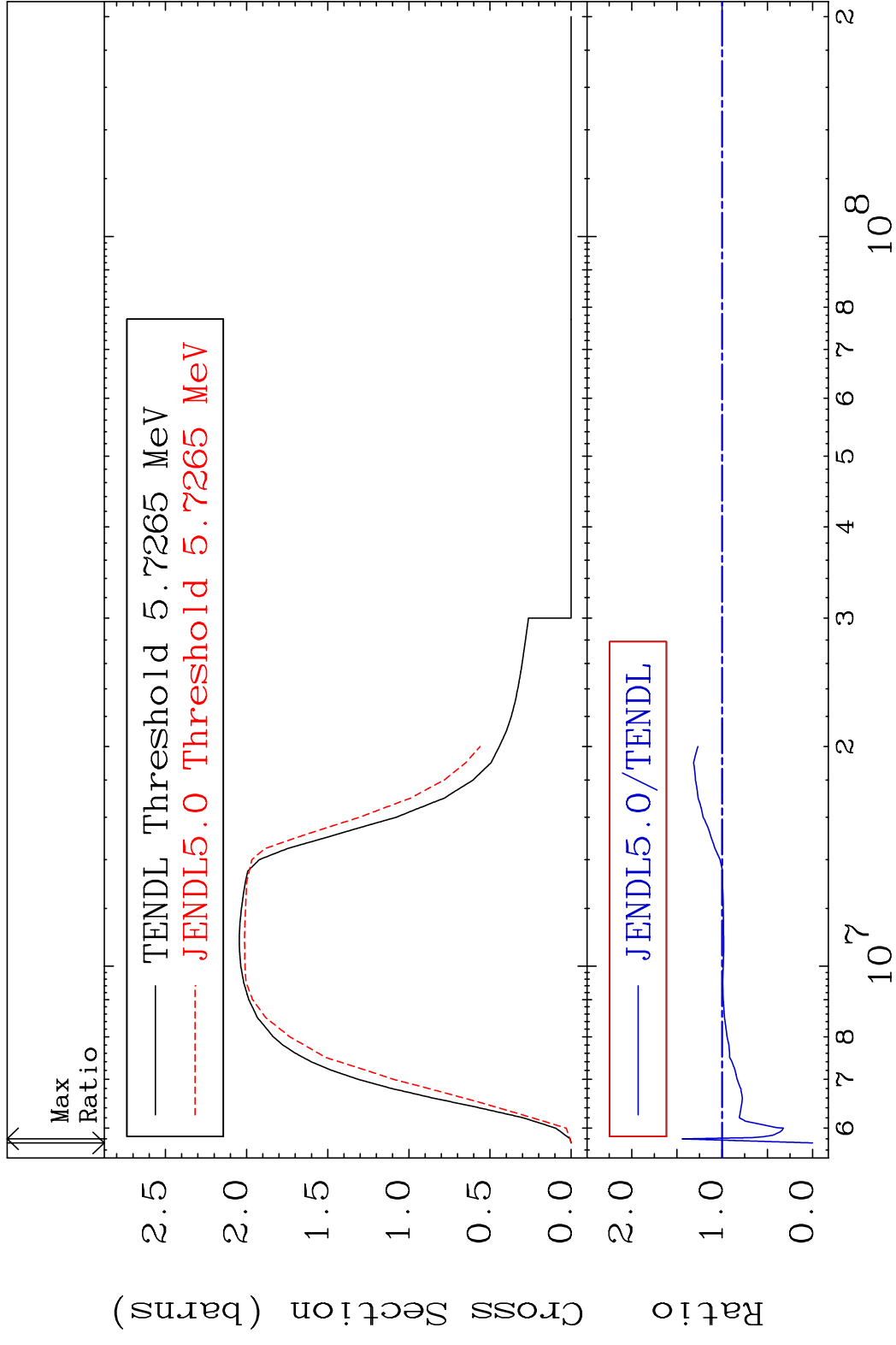
MAT 7246 Dpa inelastic (mt51-91) 72-Hf-181
 Cross Section -100.0 To 2304. %



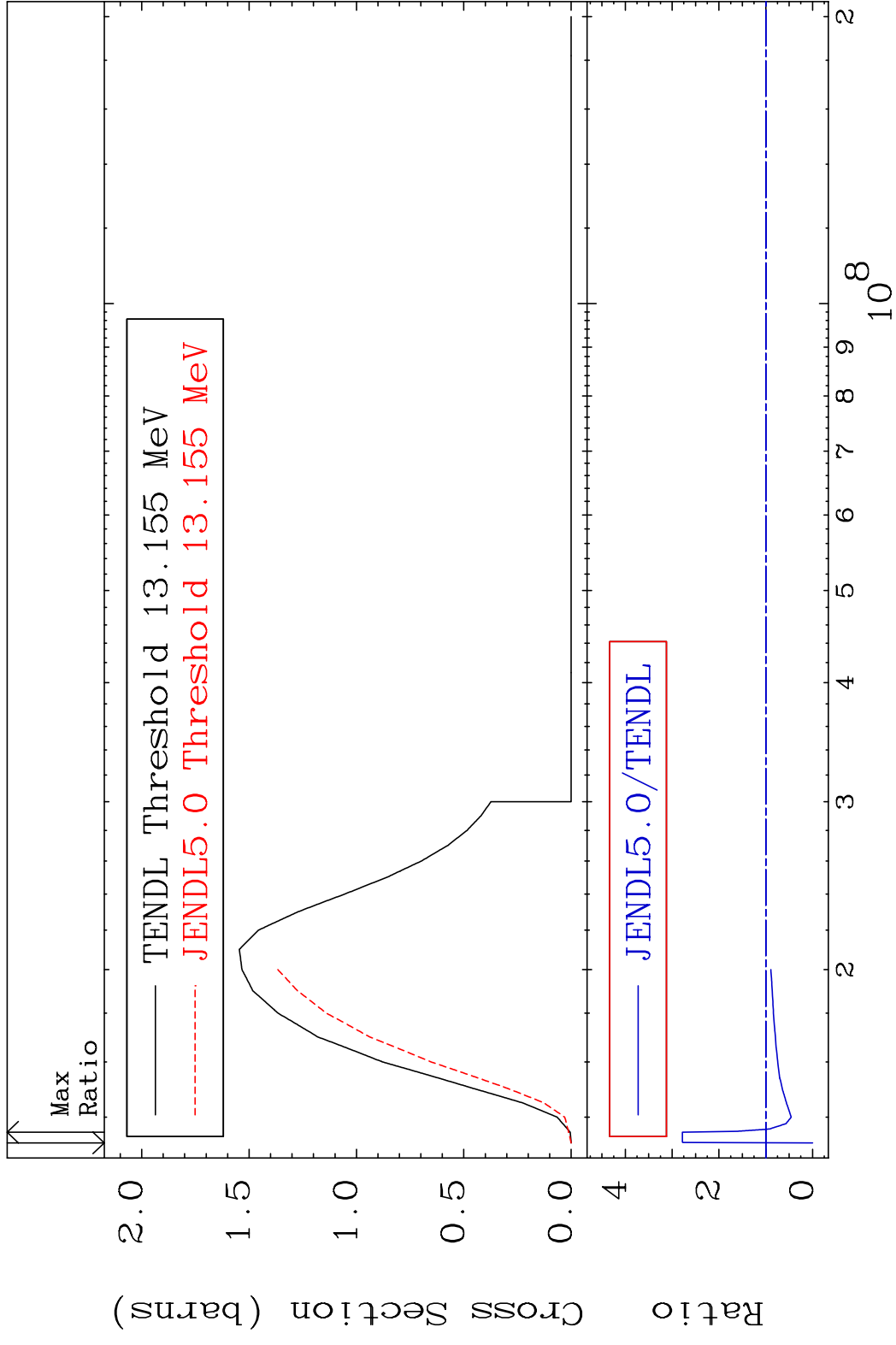
MAT 7246 Dpa disappearance (mt102 -120) 72-Hf-181
 Cross Section -99.71 To 9999. %

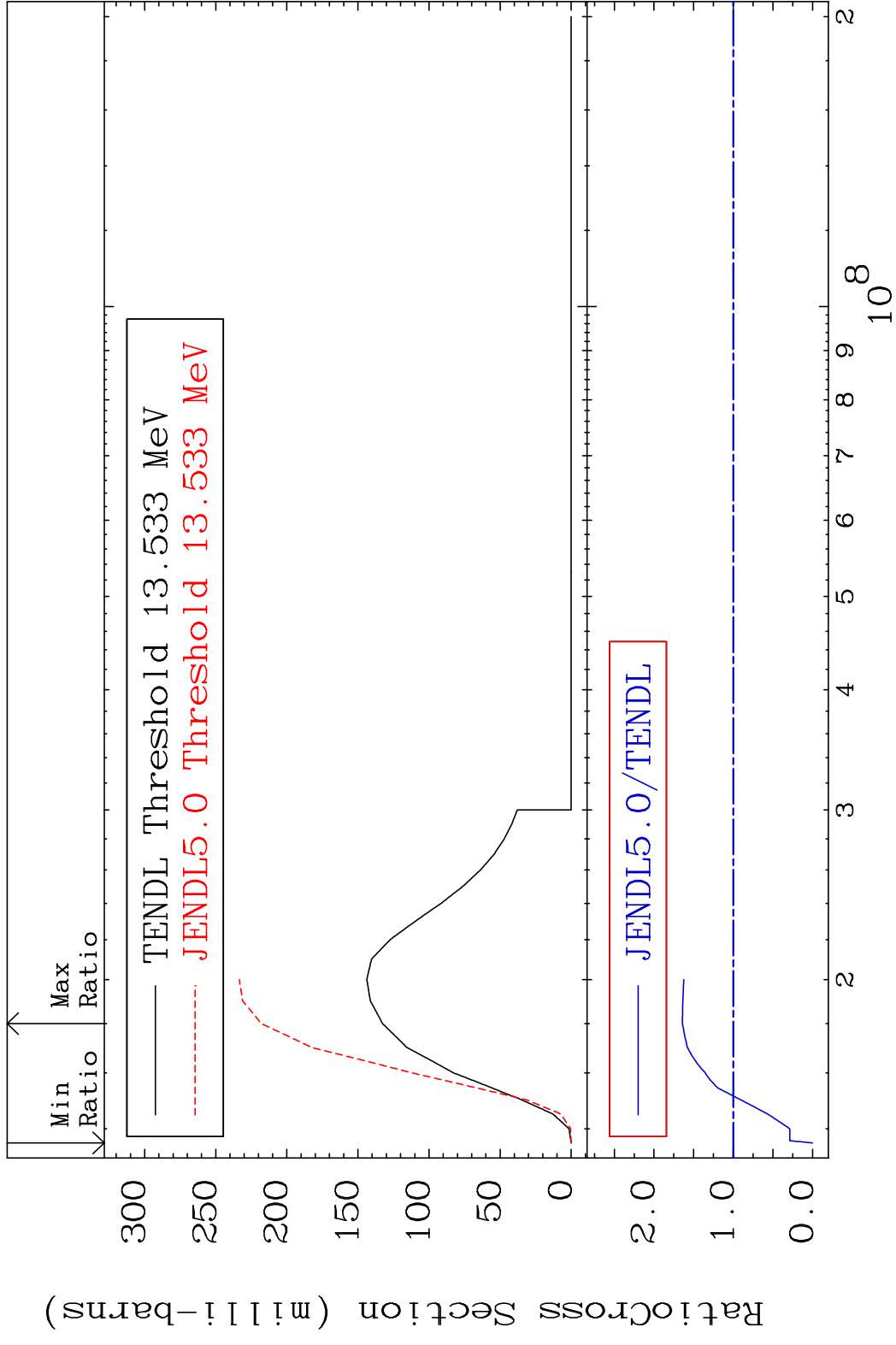


MAT 7246 (n,2n):72-Hf-180g 72-Hf-181
 Radionuclide Production Cross Section 180.01 dth 43.99 %

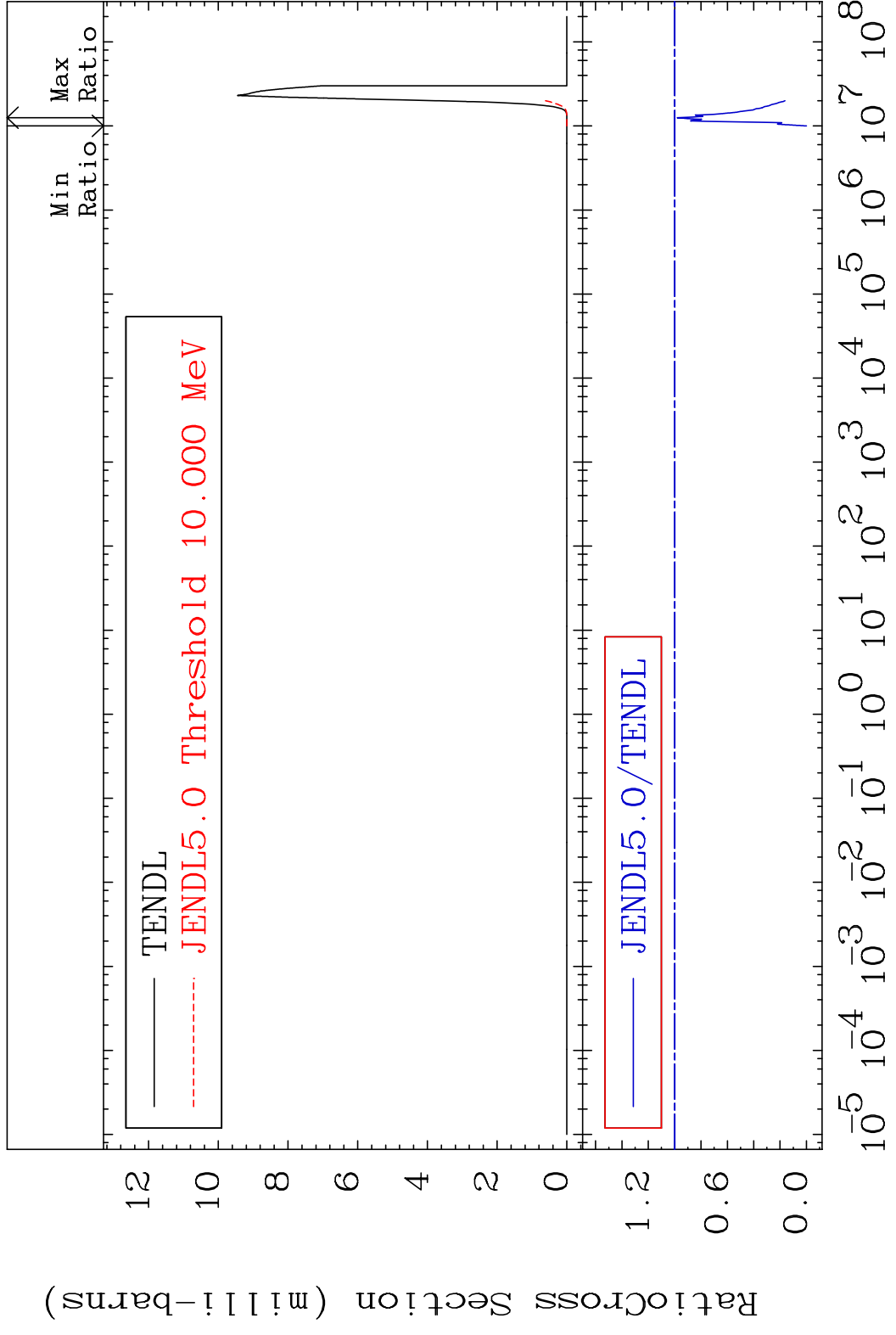


MAT 7246 (n,3n):72-Hf-179g 72-Hf-181
 Radionuclide Production Cross Section 180.0 mb 178.2 %





MAT 7246 (n, n') α :70-Yb-177g 72-Hf-181
 Radionuclide Production Cross Section Ratio - 1.919%

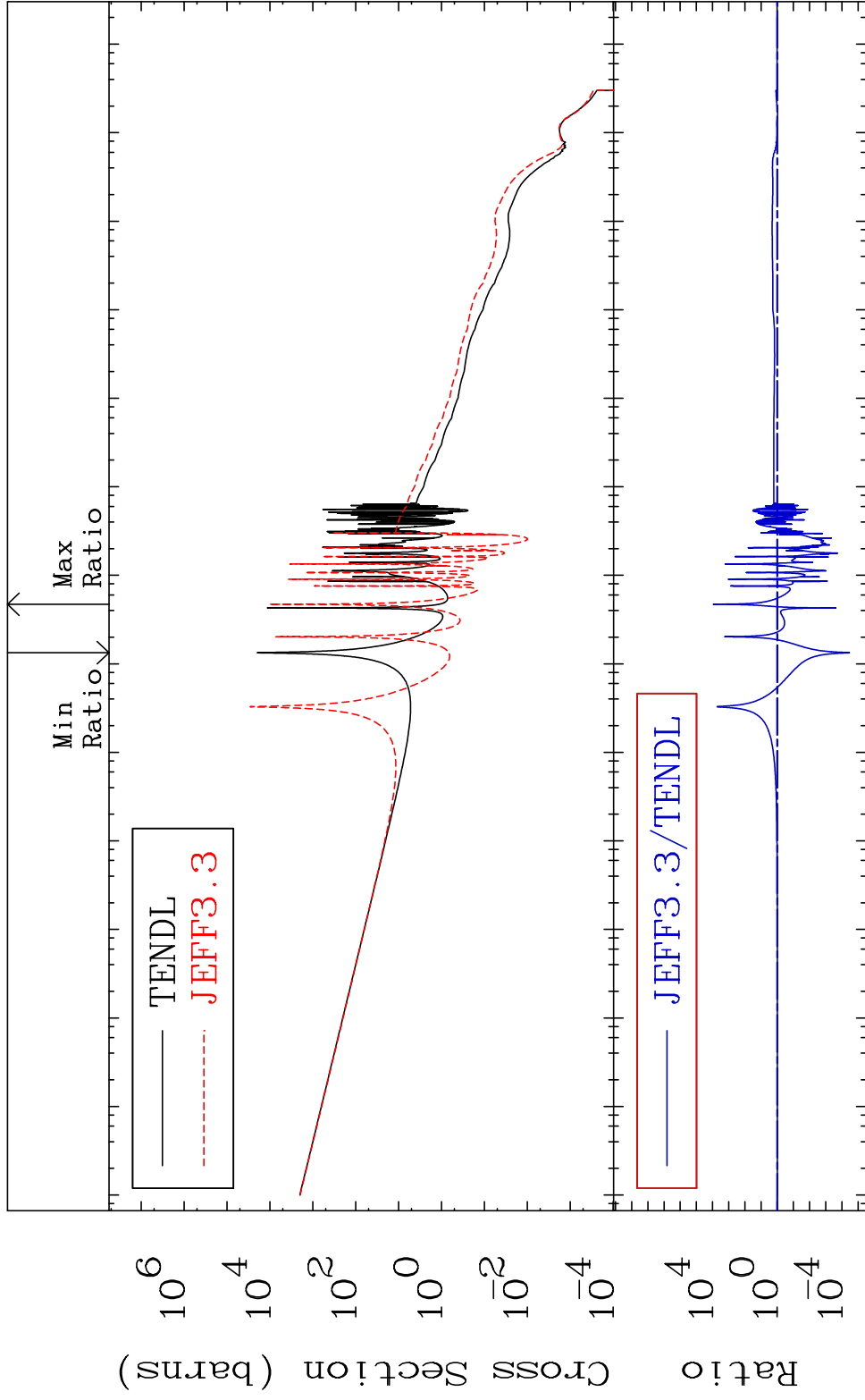


MAT 7246

(n, γ)

72-Hf-181

Cross Section -100.0 To 9999. %



10^6

10^4

10^2

10^0

10^{-2}

10^{-4}

10^4

10^0

10^{-4}

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

48

Incident Energy (eV)

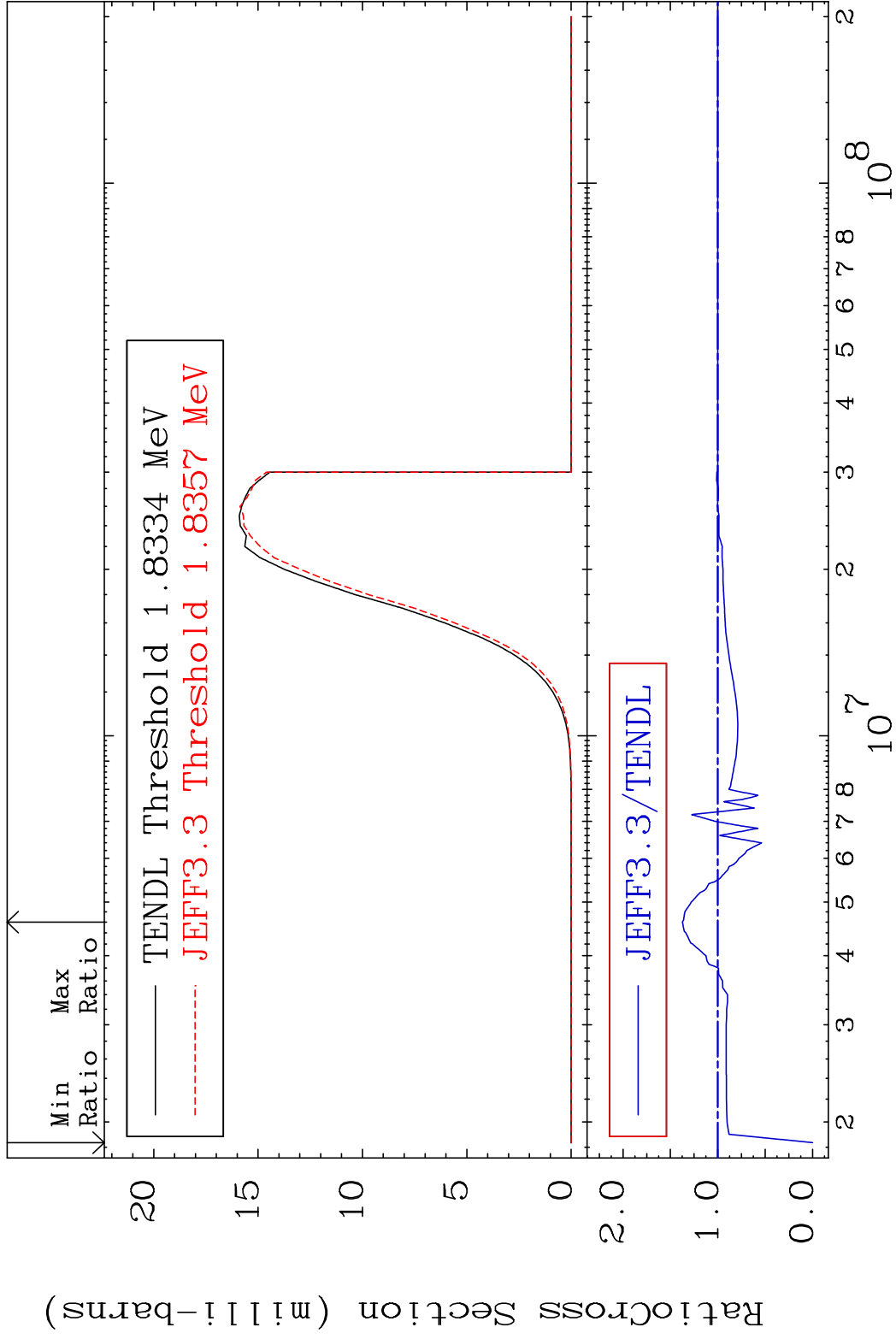
72-Hf-181

MAT 7246

(n, p)

72-Hf-181

Cross Section -100.0 To 37.39 %



49

Incident Energy (eV)

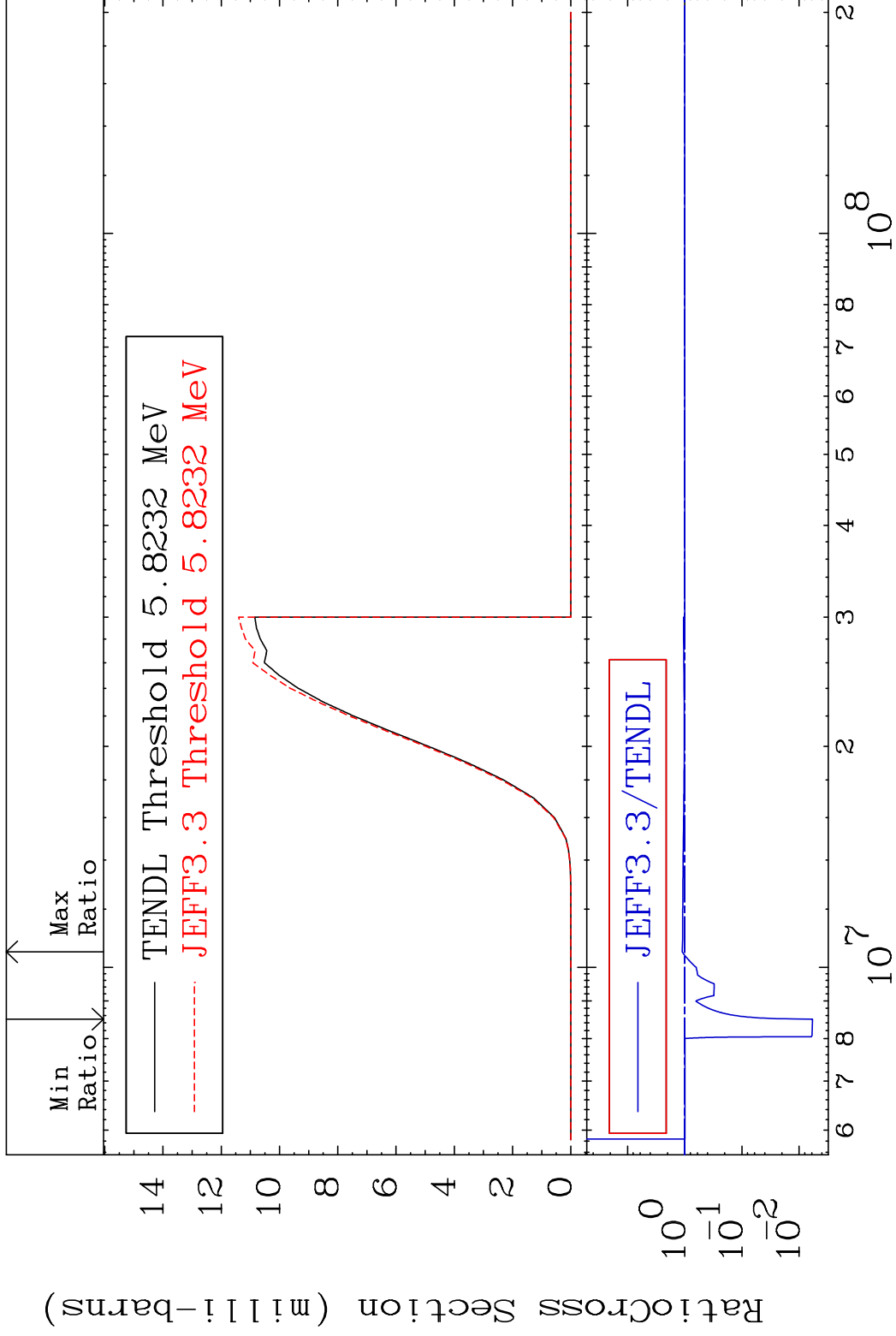
72-Hf-181

MAT 7246

(n, d)

72-Hf-181

Cross Section -99.42 To 11.11 %

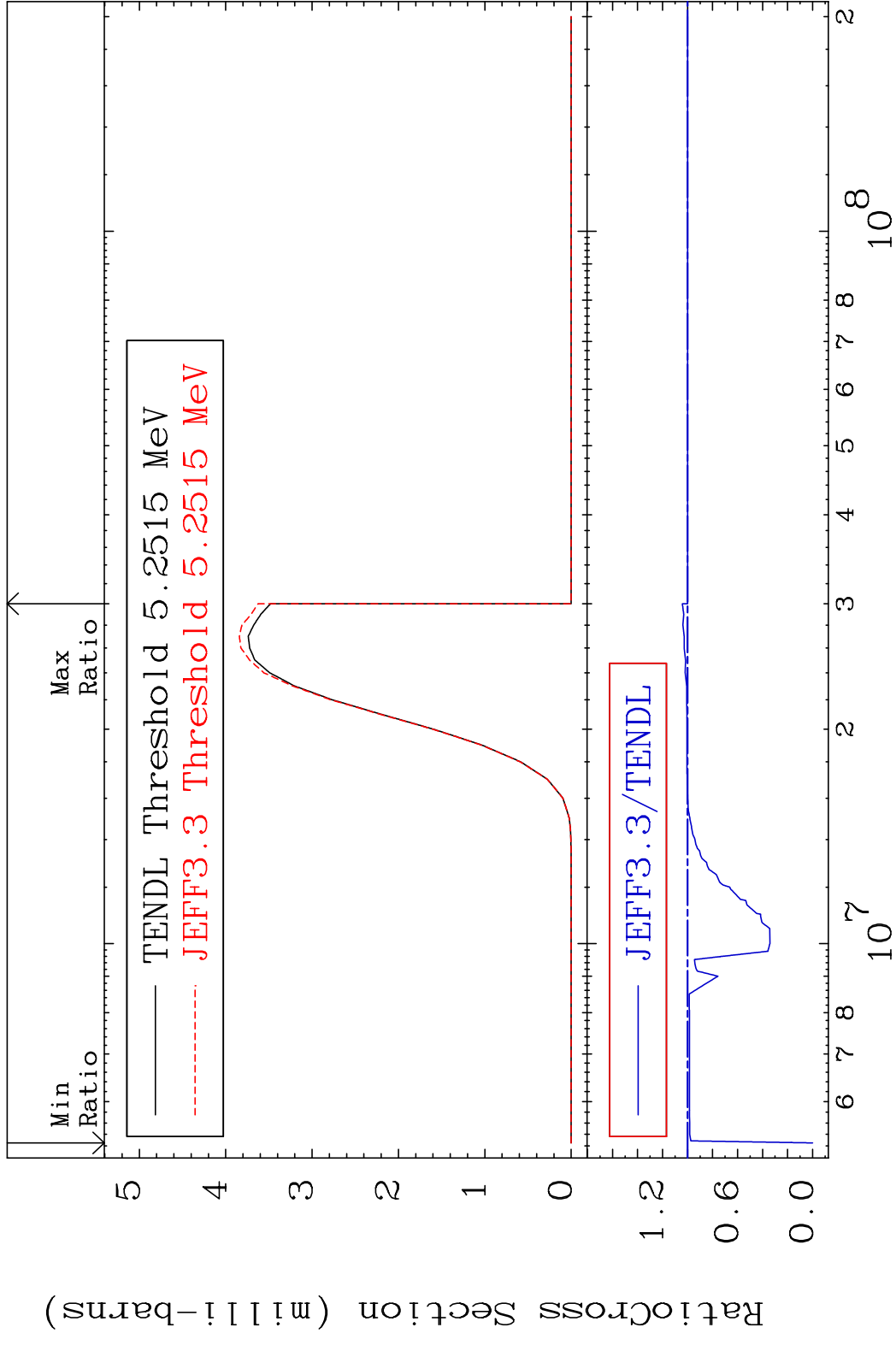


50

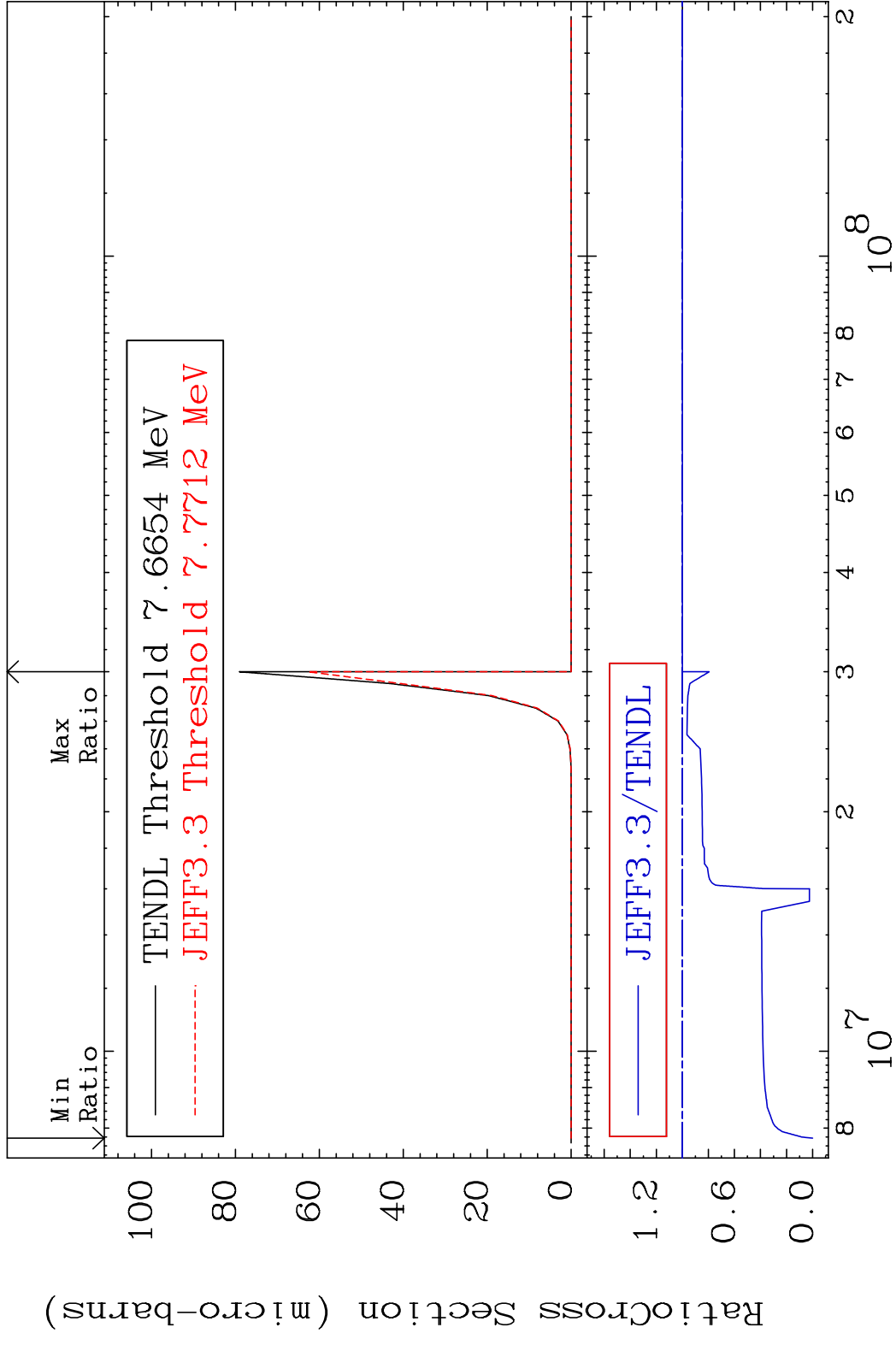
Incident Energy (eV)

72-Hf-181

MAT 7246 (n, t) 72-Hf-181
 Cross Section -100.0 To 4.171 %



MAT 7246 (n, He-3) 72-Hf-181
 Cross Section -100.0 To 0.000 %

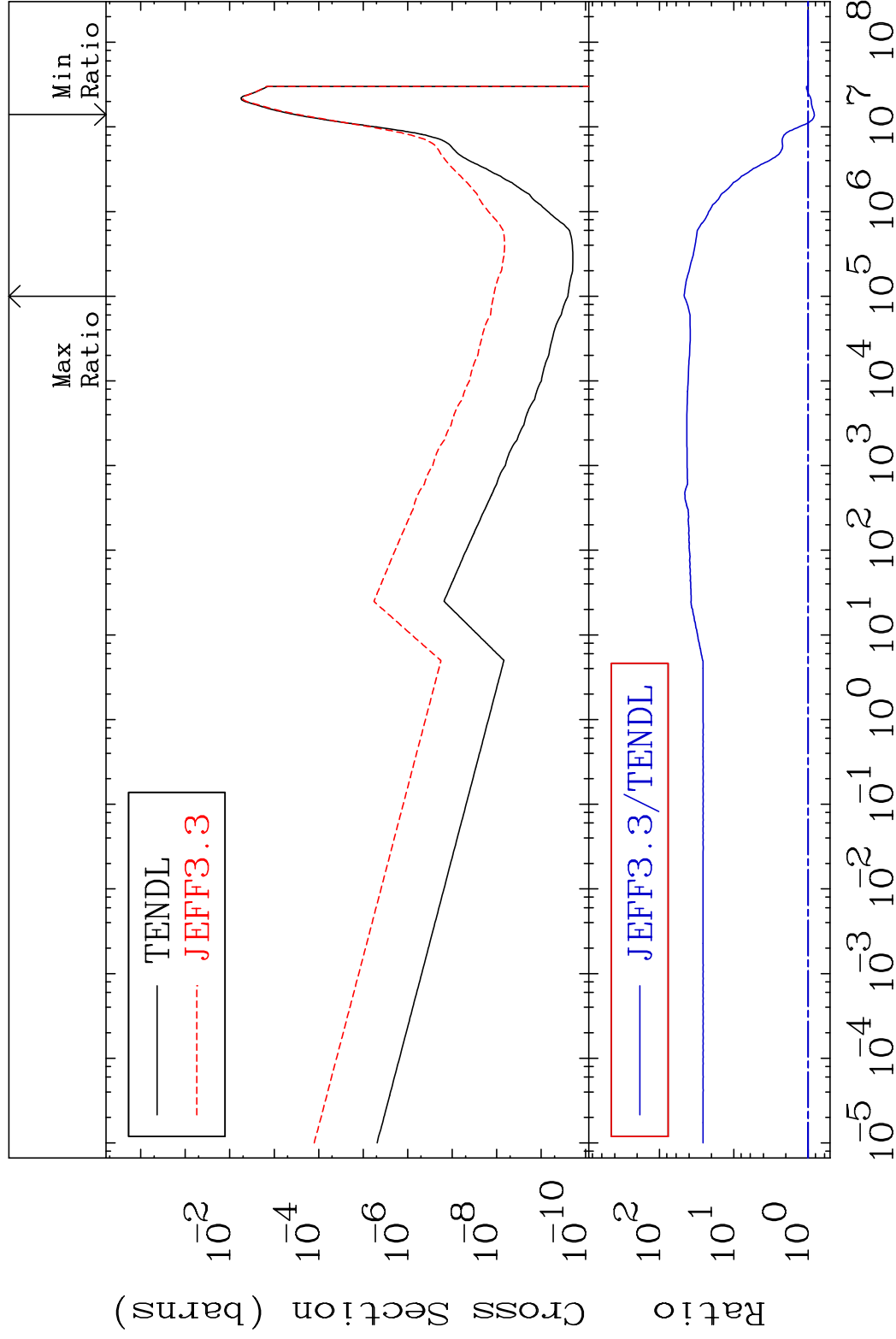


MAT 7246

(n, α)

72-Hf-181

Cross Section -17.24 To 4580. %



53

Incident Energy (eV)

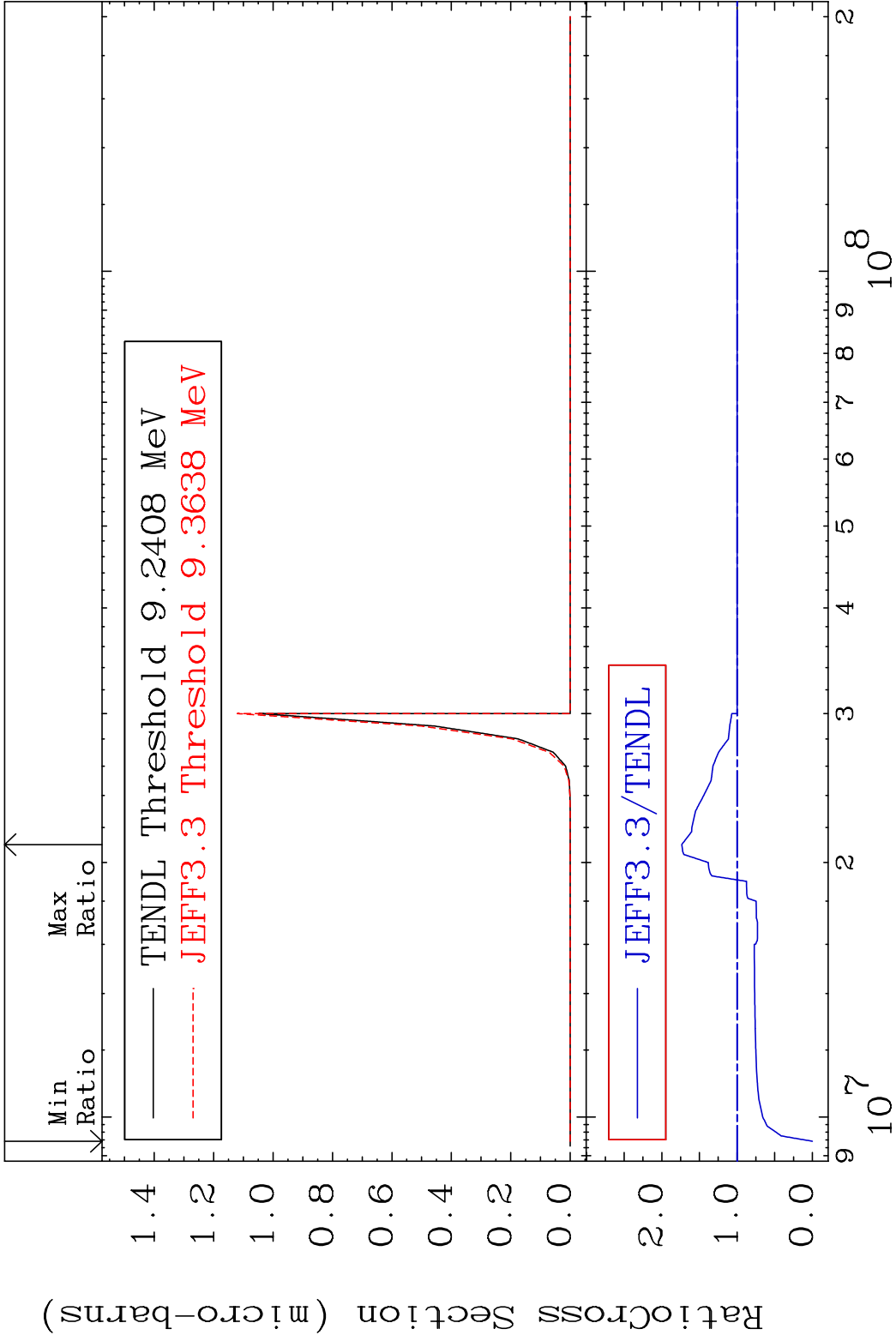
72-Hf-181

MAT 7246

(n,2p)

72-Hf-181

Cross Section -100.0 To 73.51 %



54

Incident Energy (eV)

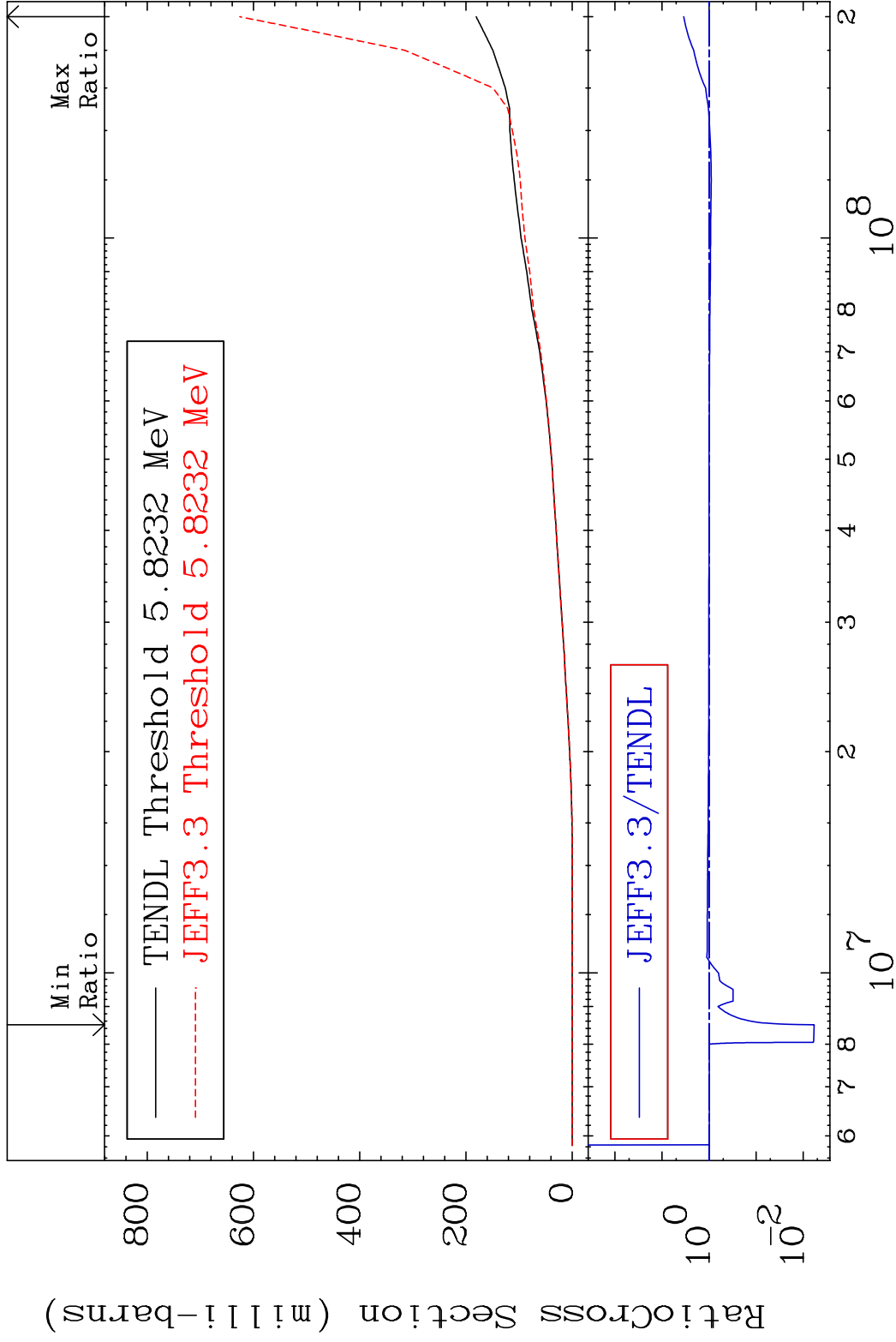
72-Hf-181

MAT 7246

Deuterium Production

72-Hf-181

Cross Section -99.42 To 246.0 %



56

Incident Energy (eV)

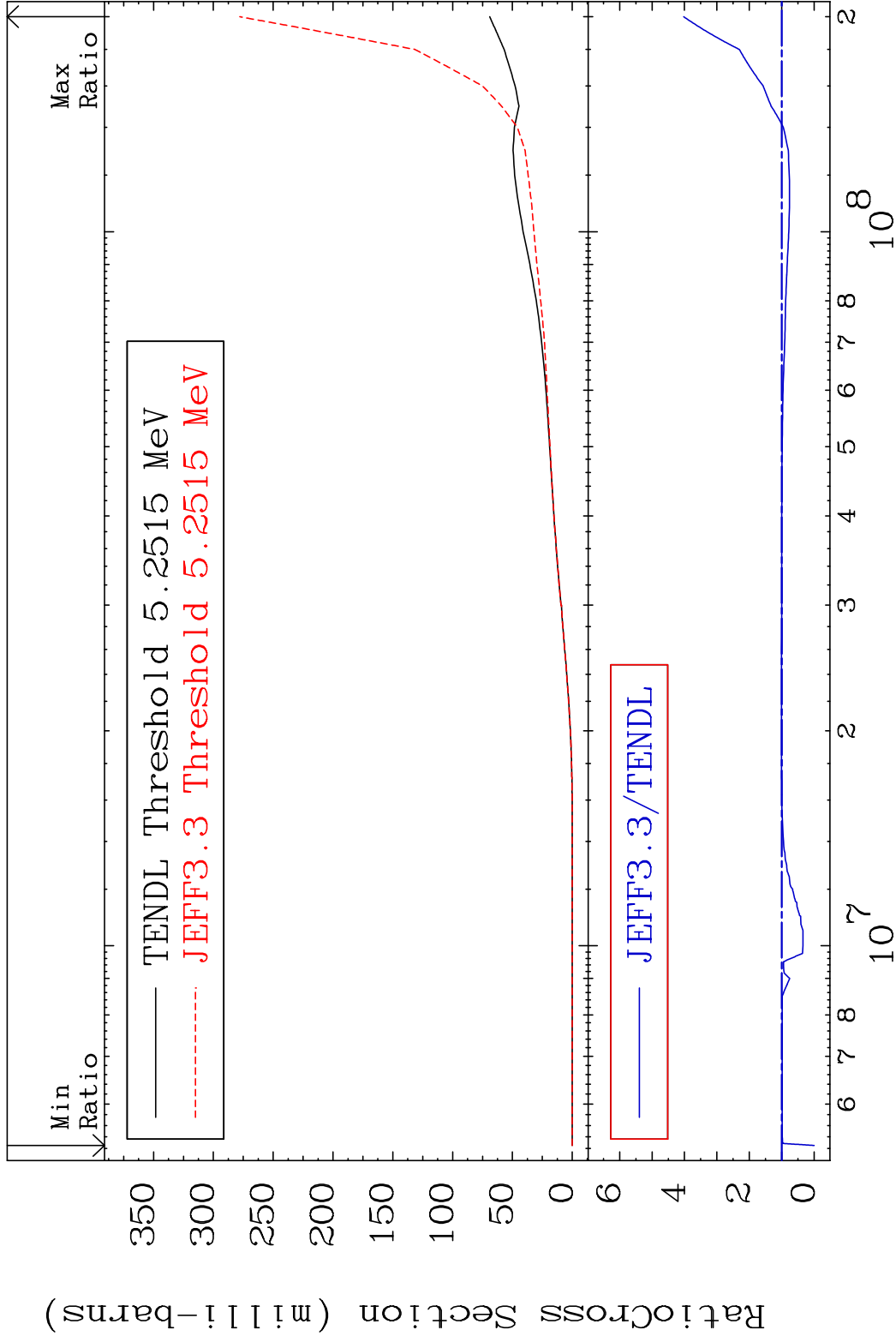
72-Hf-181

MAT 7246

Tritium Production

72-Hf-181

Cross Section -100.0 To 302.6 %



57

Incident Energy (eV)

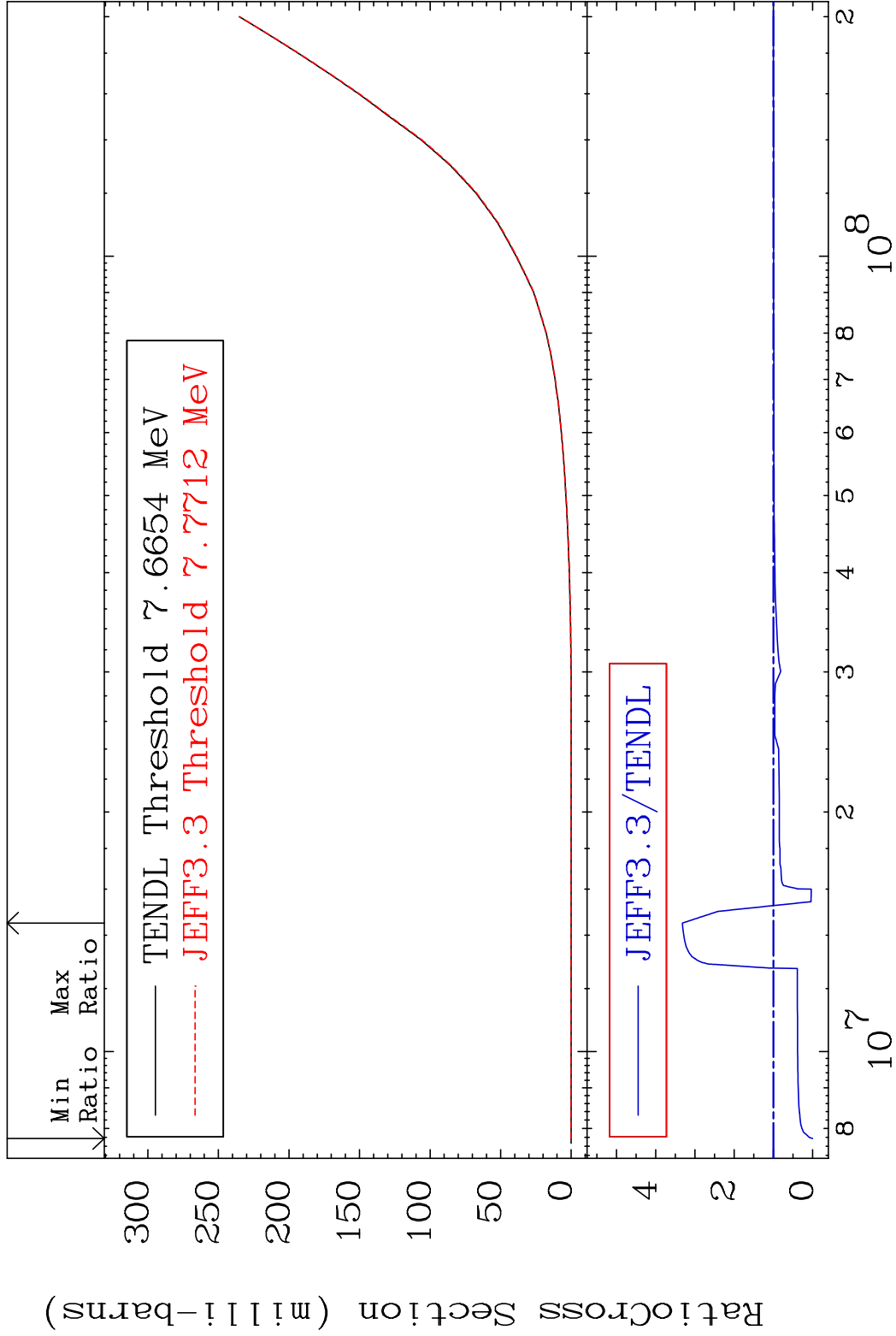
72-Hf-181

MAT 7246

He-3 Production

72-Hf-181

Cross Section -100.0 To 232.0 %



58

Incident Energy (eV)

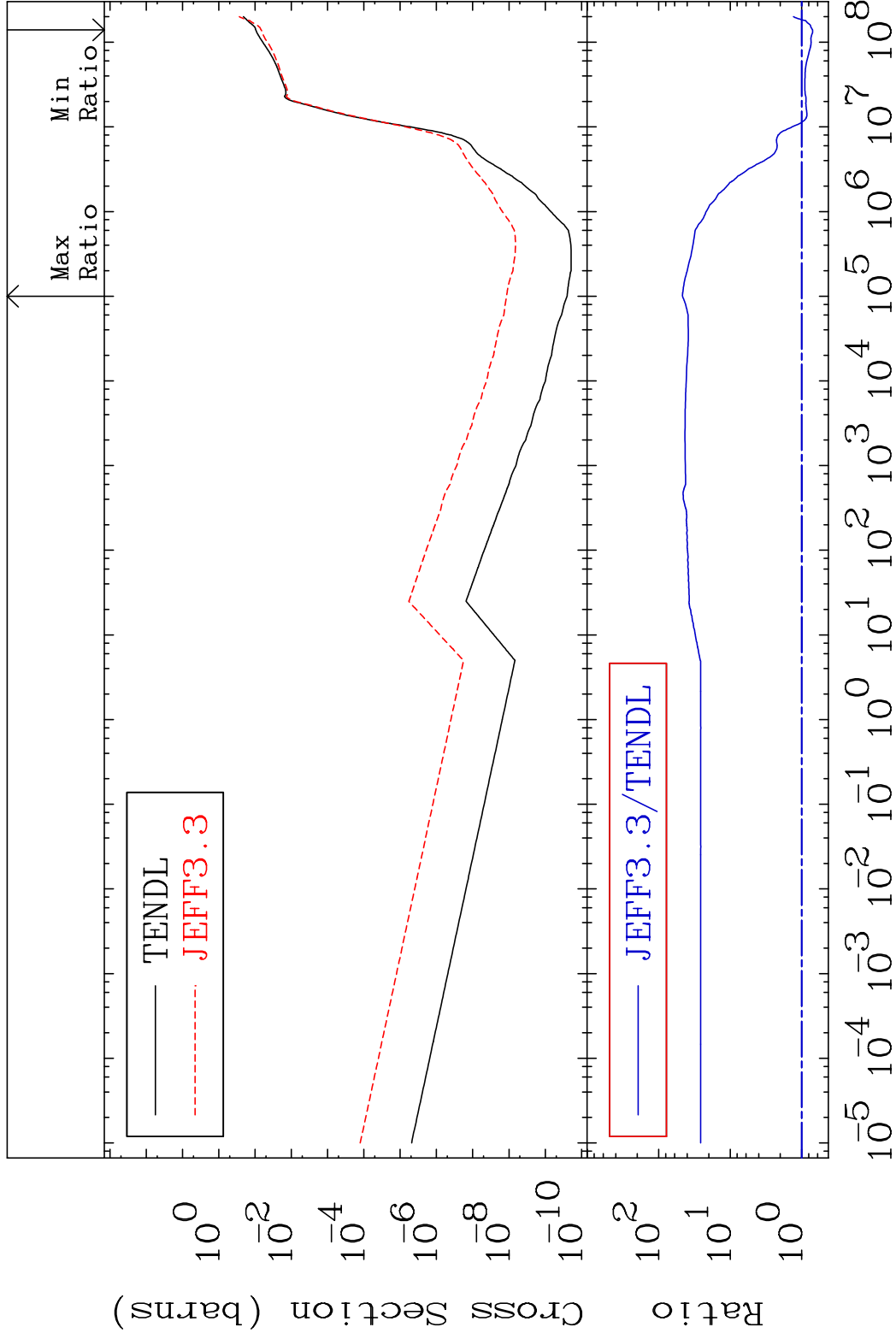
72-Hf-181

MAT 7246

He-4 Production

72-Hf-181

Cross Section -29.39 To 4580. %

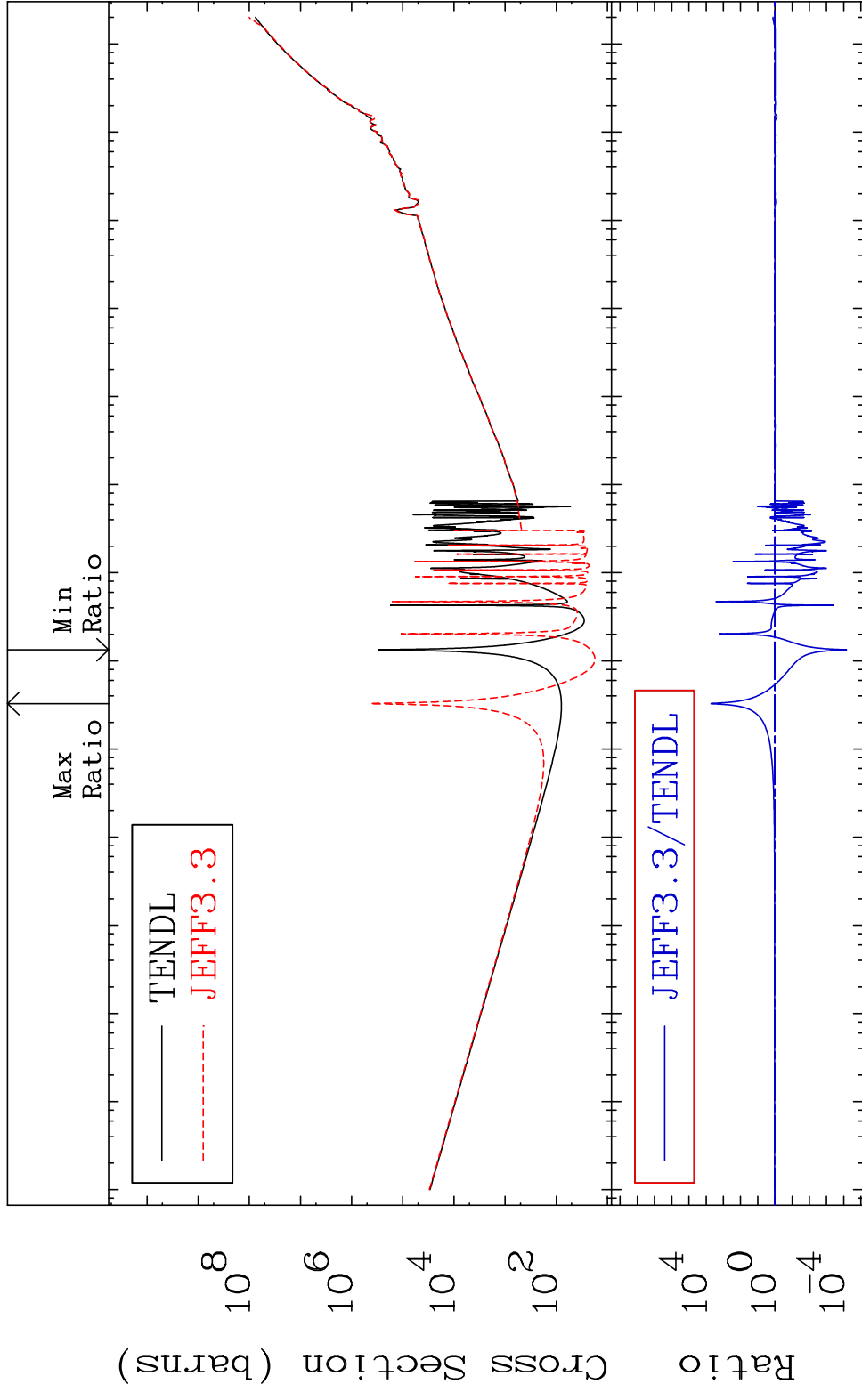


59

Incident Energy (eV)

72-Hf-181

MAT 7246 Kerma total (eV-barns) 72-Hf-181
 Cross Section -99.99 To 9999. %



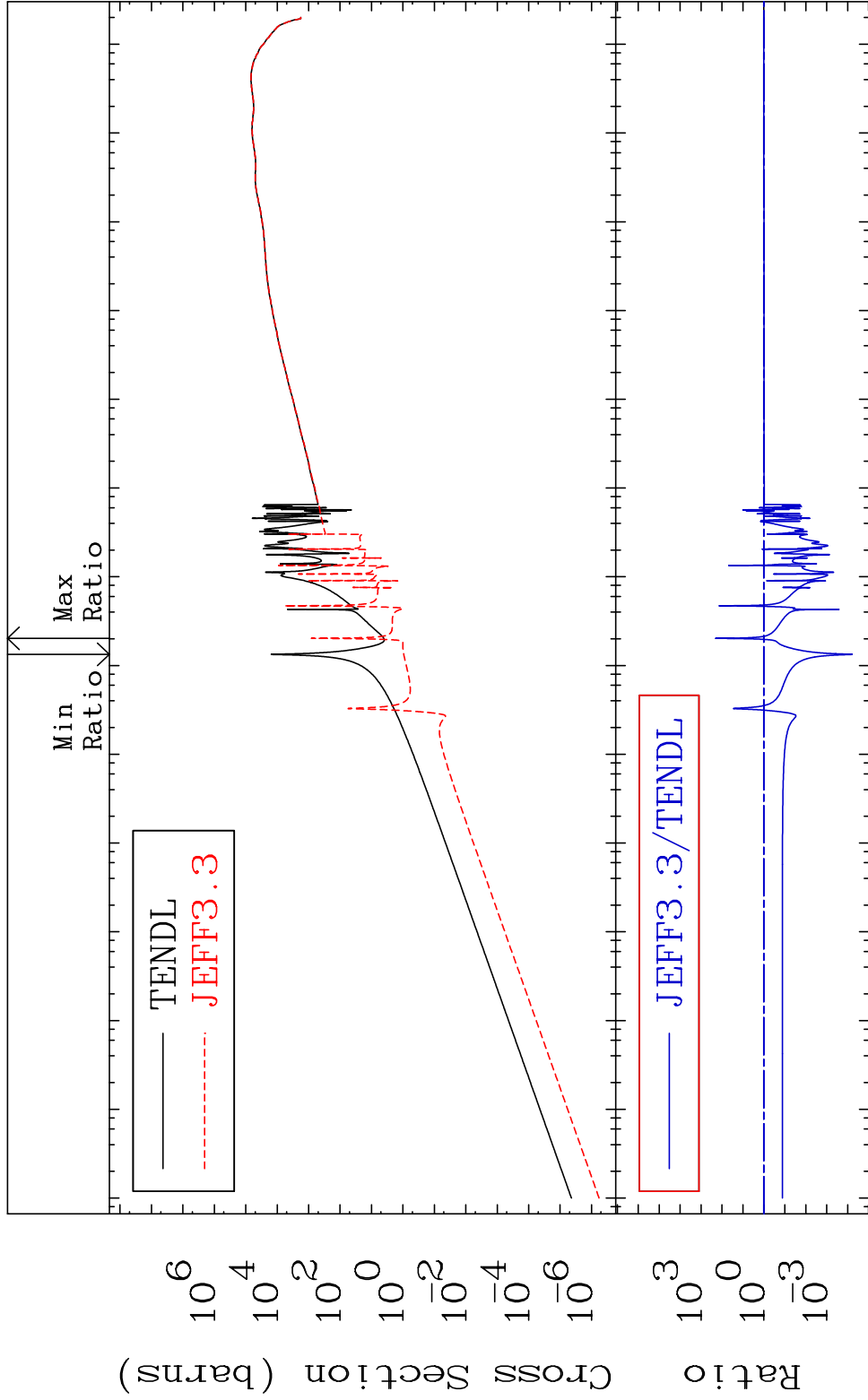
60 Incident Energy (eV) 72-Hf-181

MAT 7246

Kerma elastic

72-Hf-181

Cross Section -99.99 To 9999. %

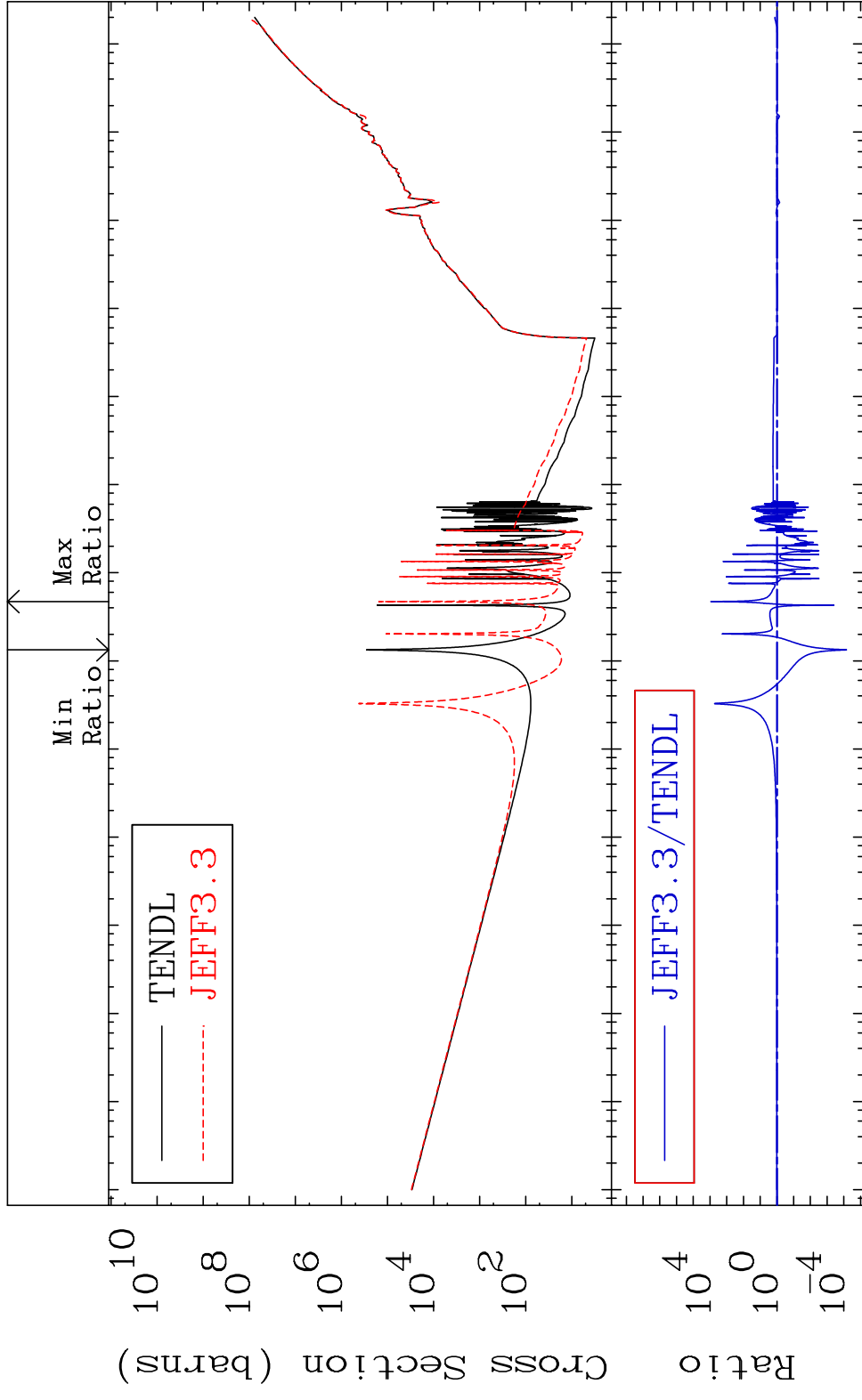


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Incident Energy (eV)

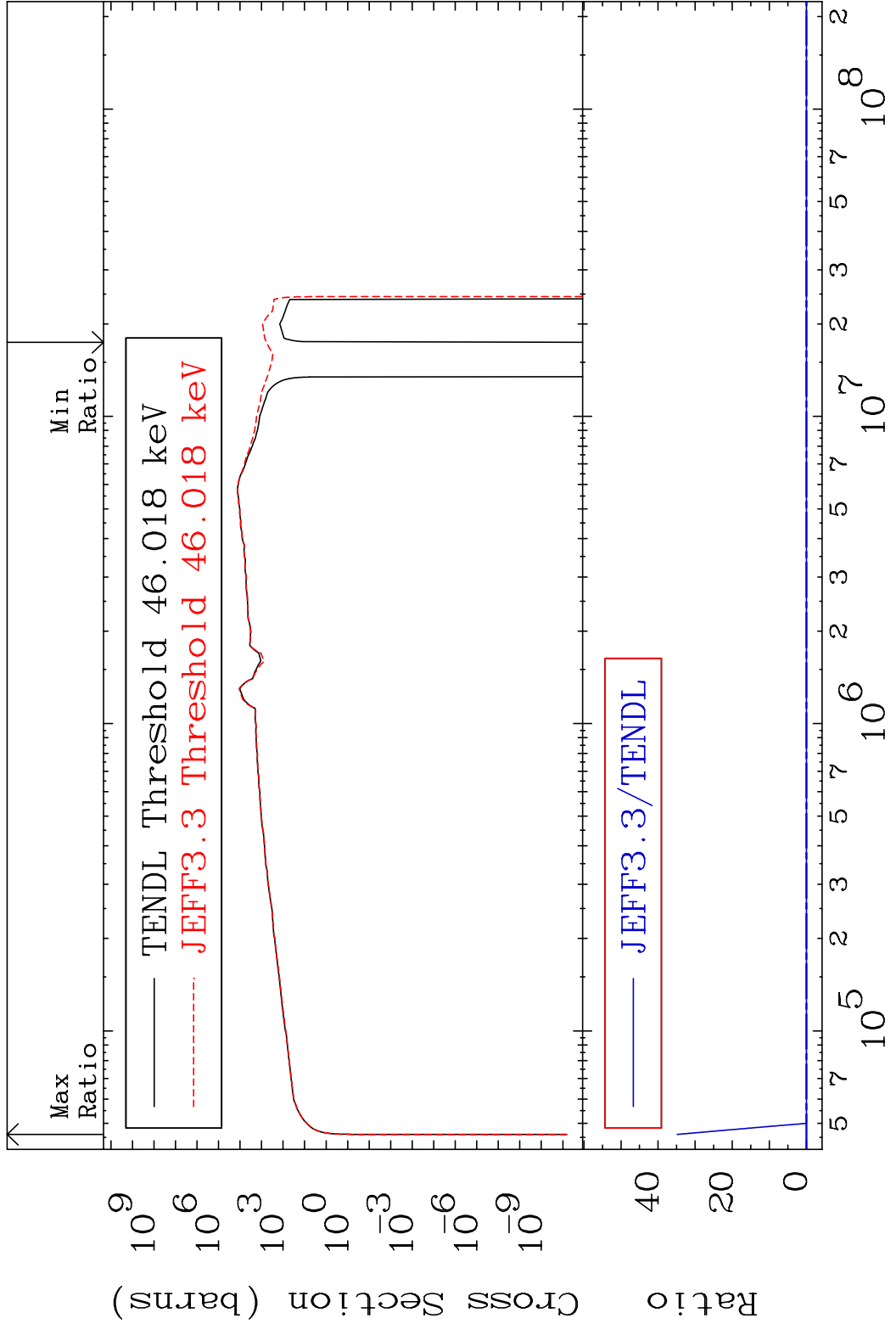
72-Hf-181

MAT 7246 Kerma non-elastic (all but mt2) 72-Hf-181
 Cross Section -99.99 To 9999. %

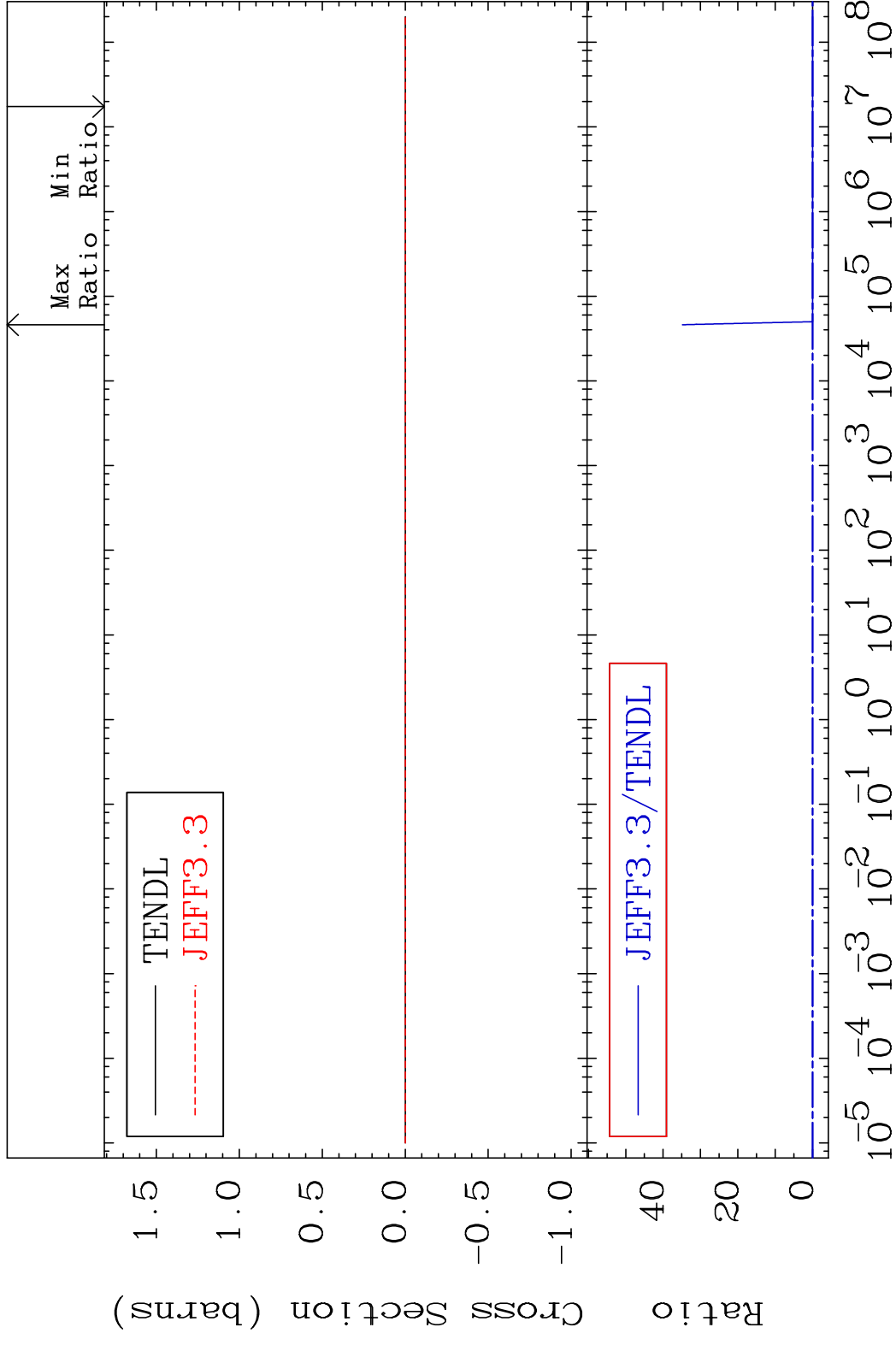


62 Incident Energy (eV) 72-Hf-181

MAT 7246 Kerma inelastic (mt51-91) 72-Hf-181
 Cross Section -9999. To 9999. %



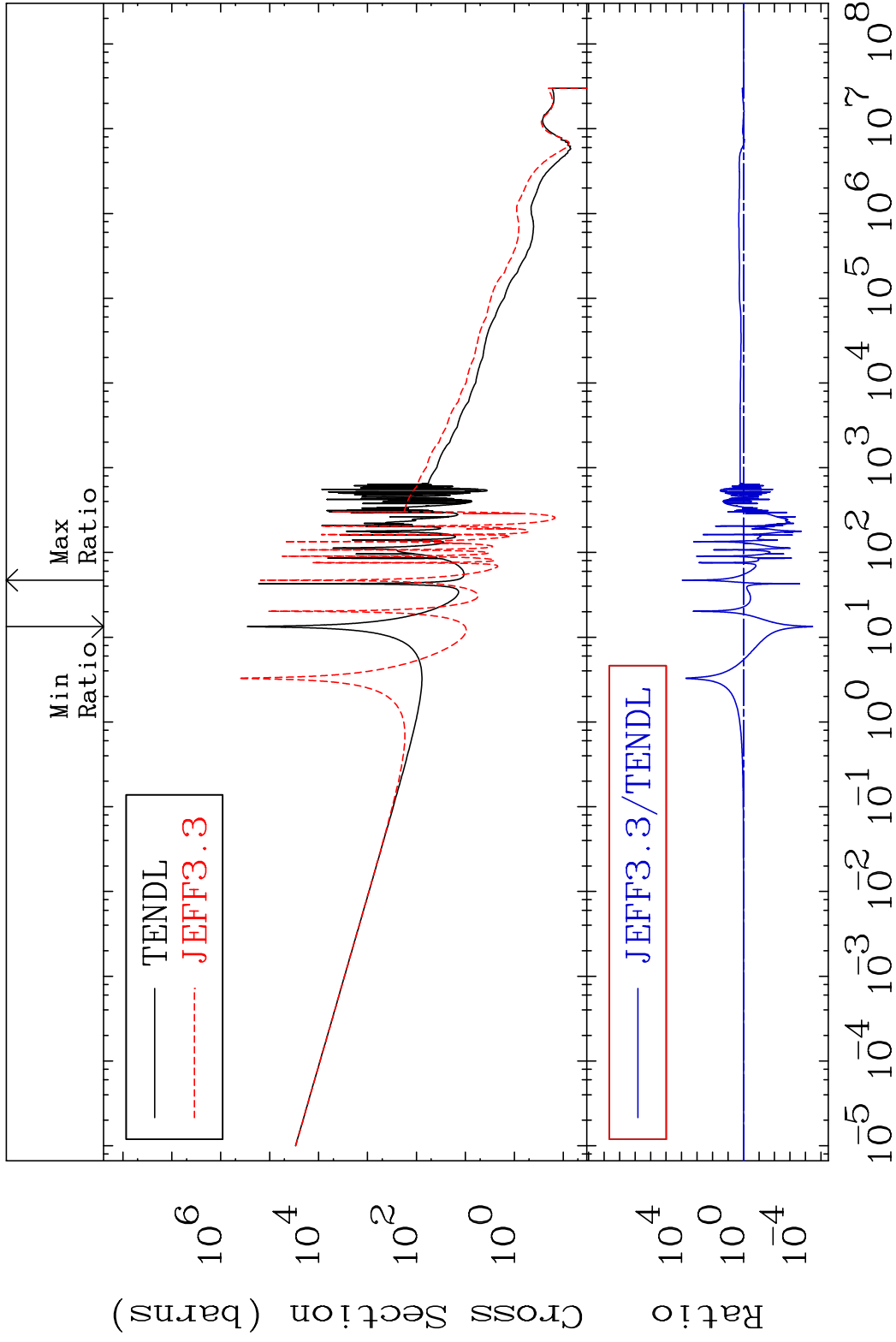
MAT 7246 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-181
 Cross Section -9999. To 9999. %



MAT 7246

Kerma capture (mt102) 72-Hf-181

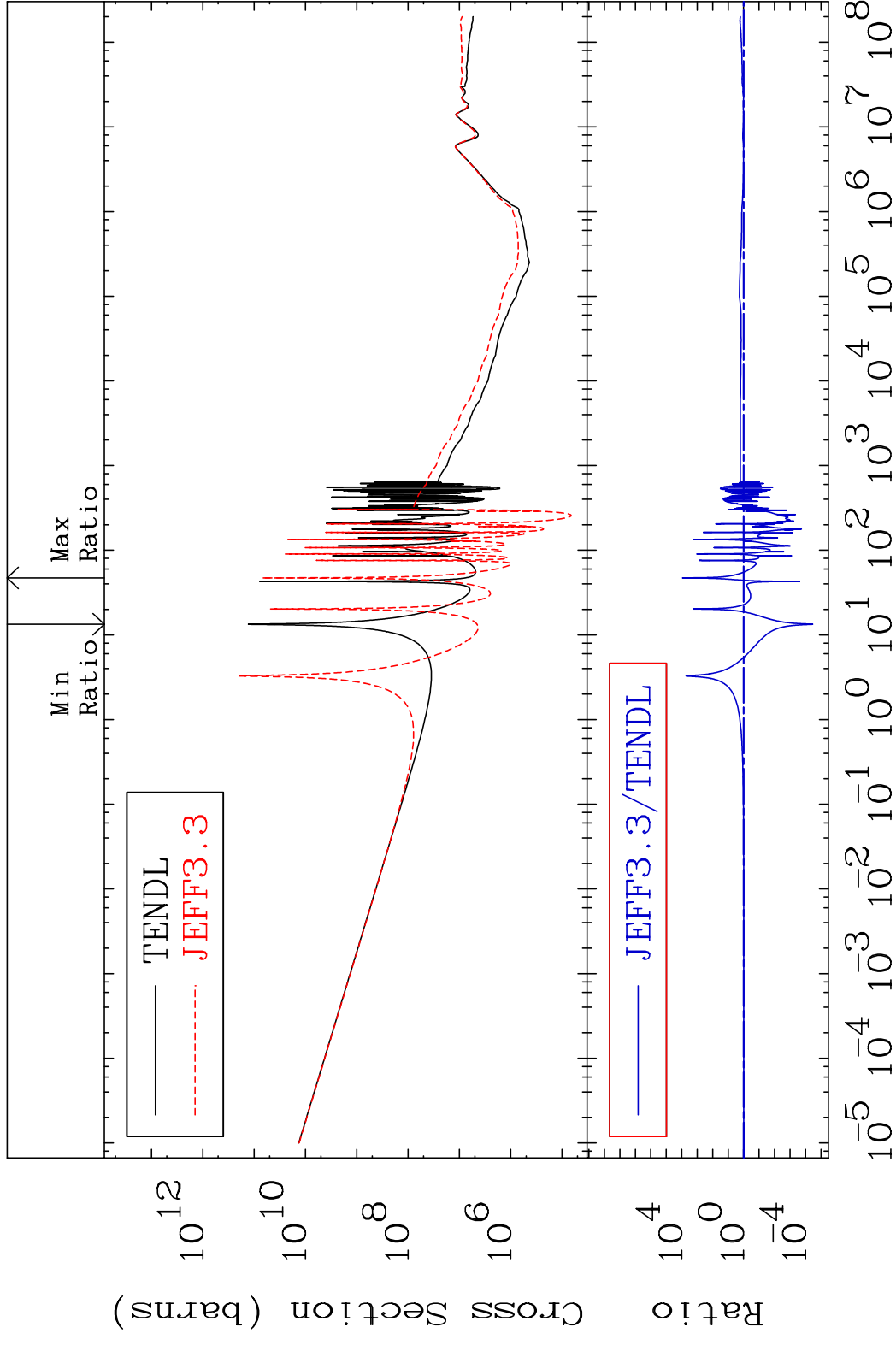
Cross Section -100.0 To 9999. %



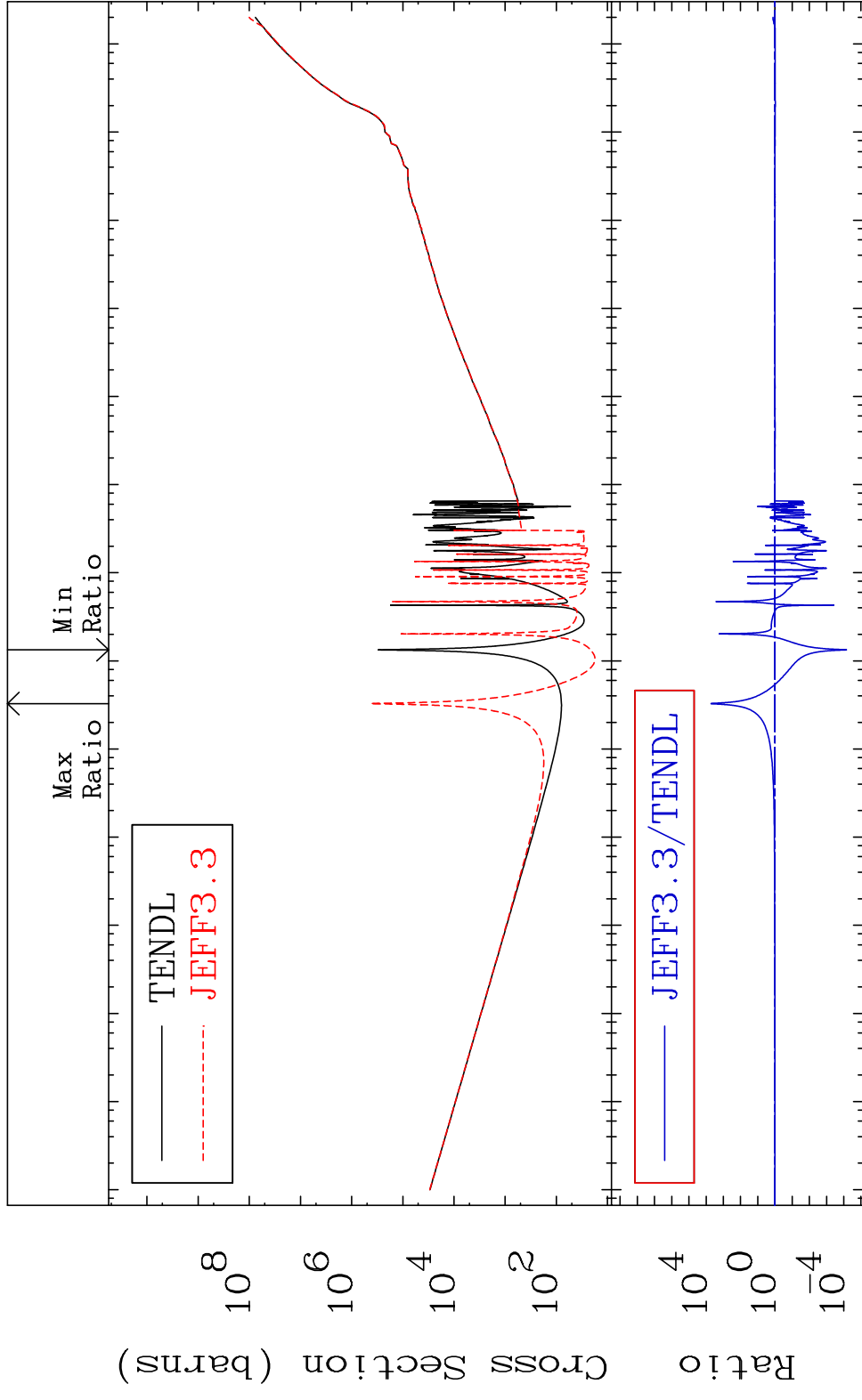
65

Incident Energy (eV) 72-Hf-181

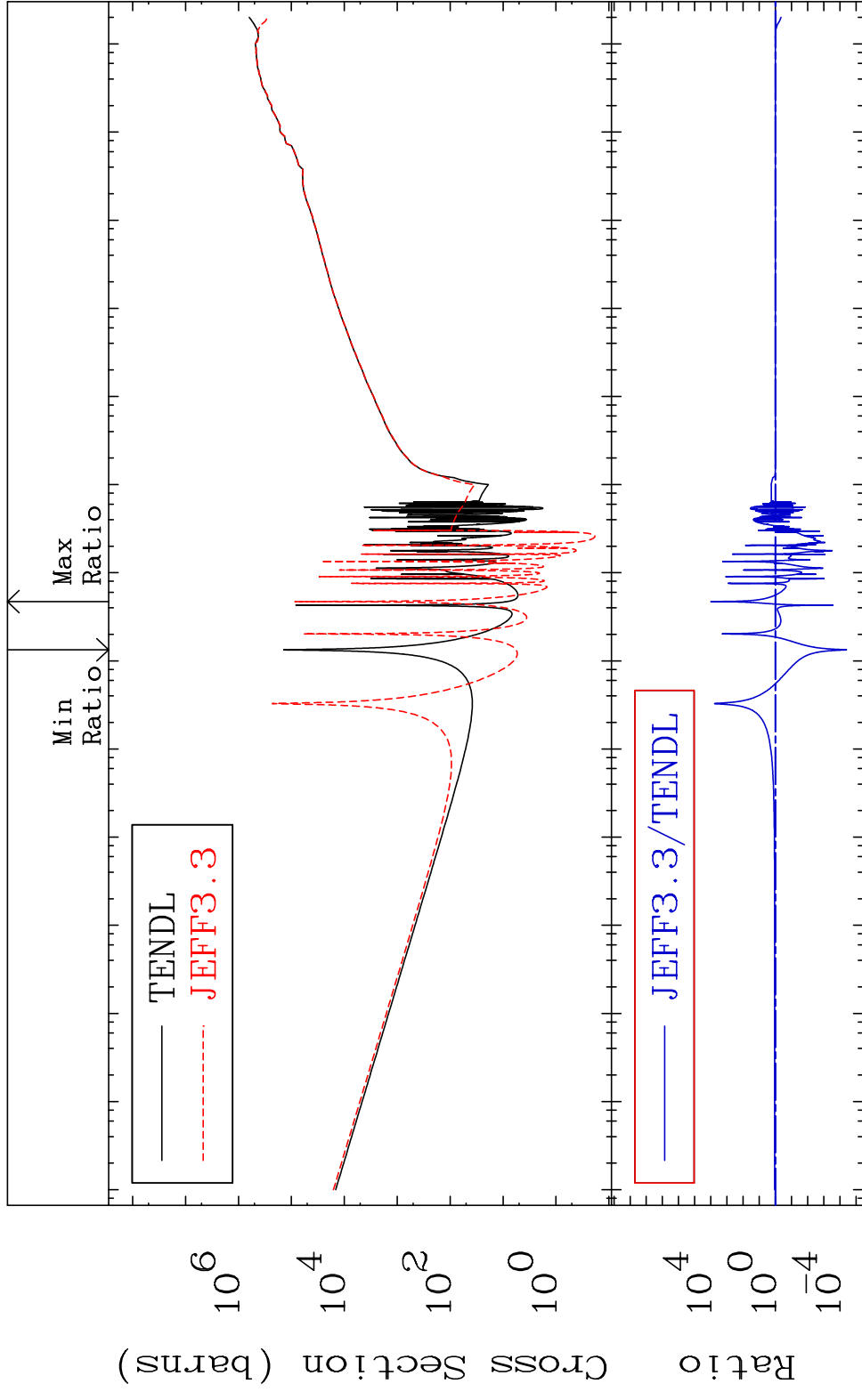
MAT 7246 Total photon (eV-barns) 72-Hf-181
 Cross Section -100.0 To 9999. %



MAT 7246 Total kinematic kerma (high limit) 72-Hf-181
 Cross Section -99.99 To 9999. %



MAT 7246 Dpa total (eV-barns) 72-Hf-181
 Cross Section -100.0 To 9999. %

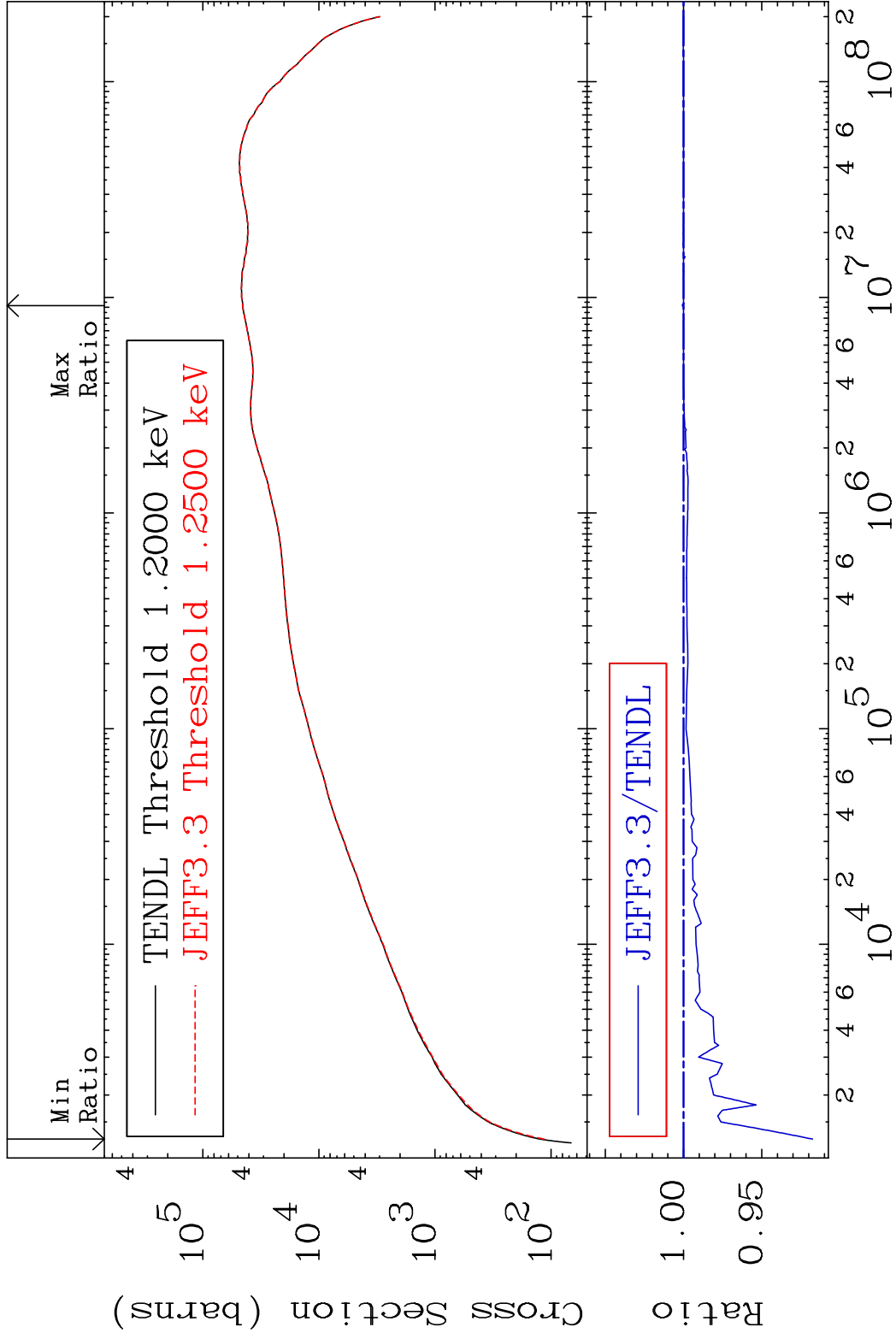


MAT 7246

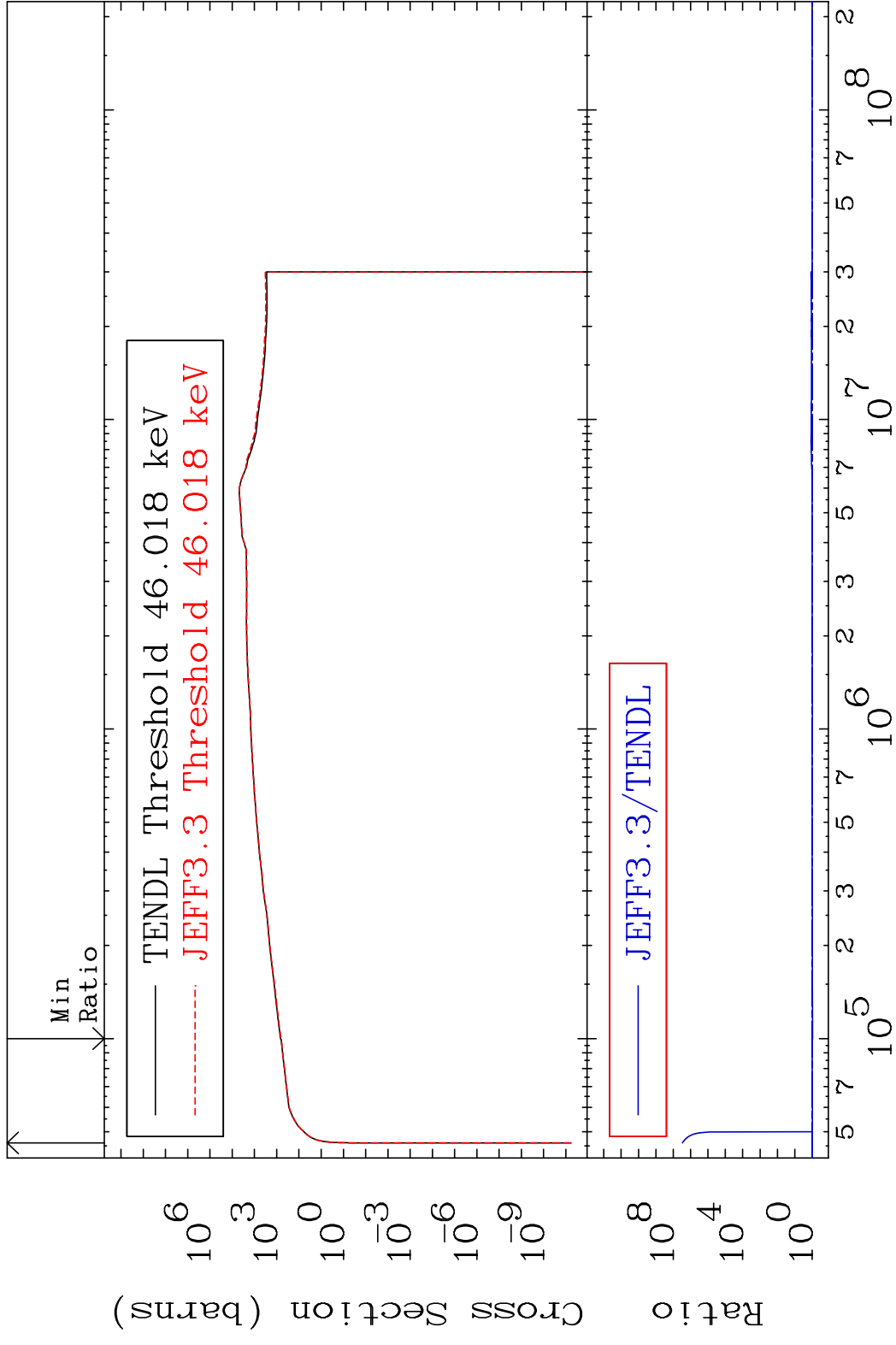
Dpa elastic (mt2)

72-Hf-181

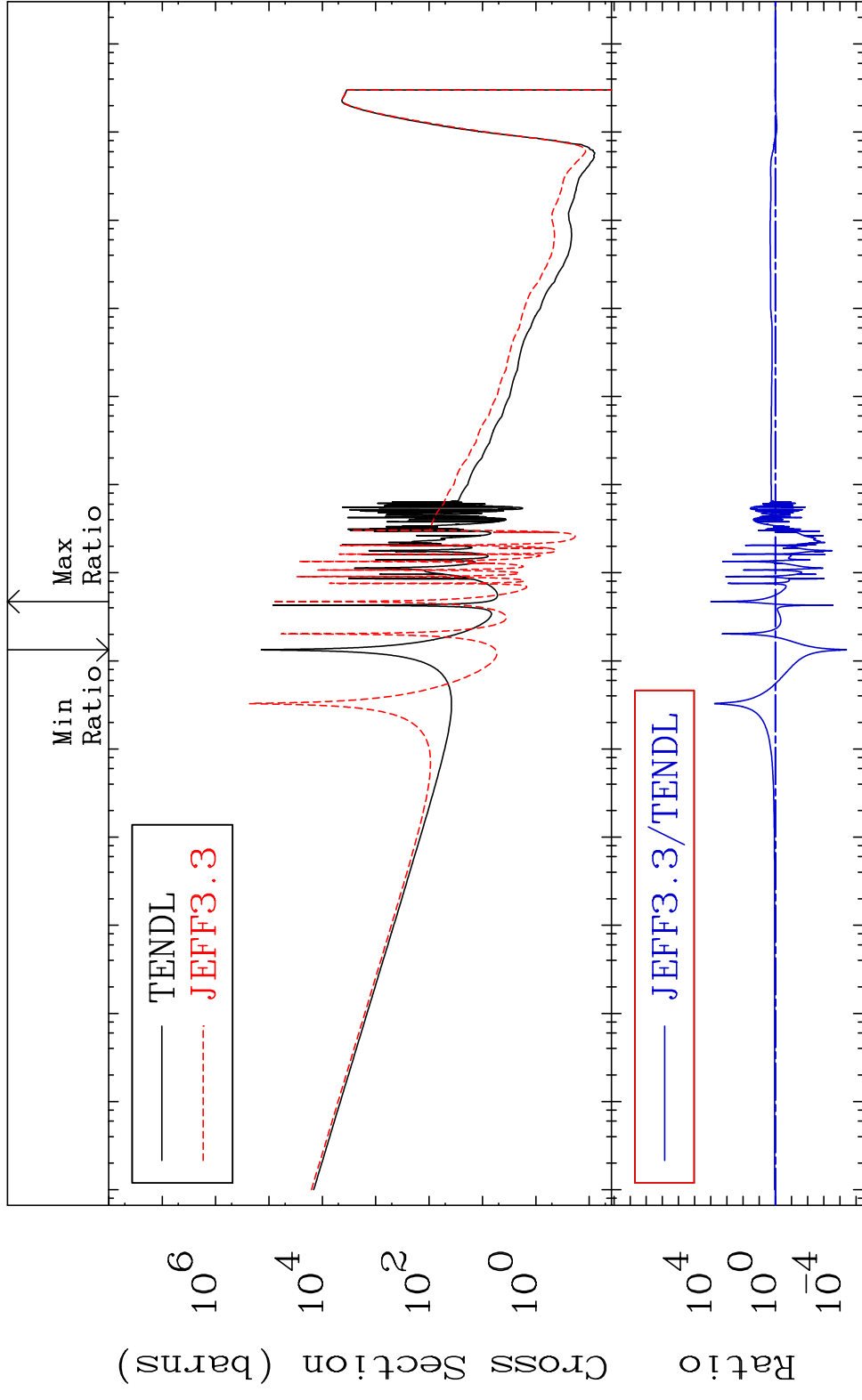
Cross Section -8.245 To 0.073 %



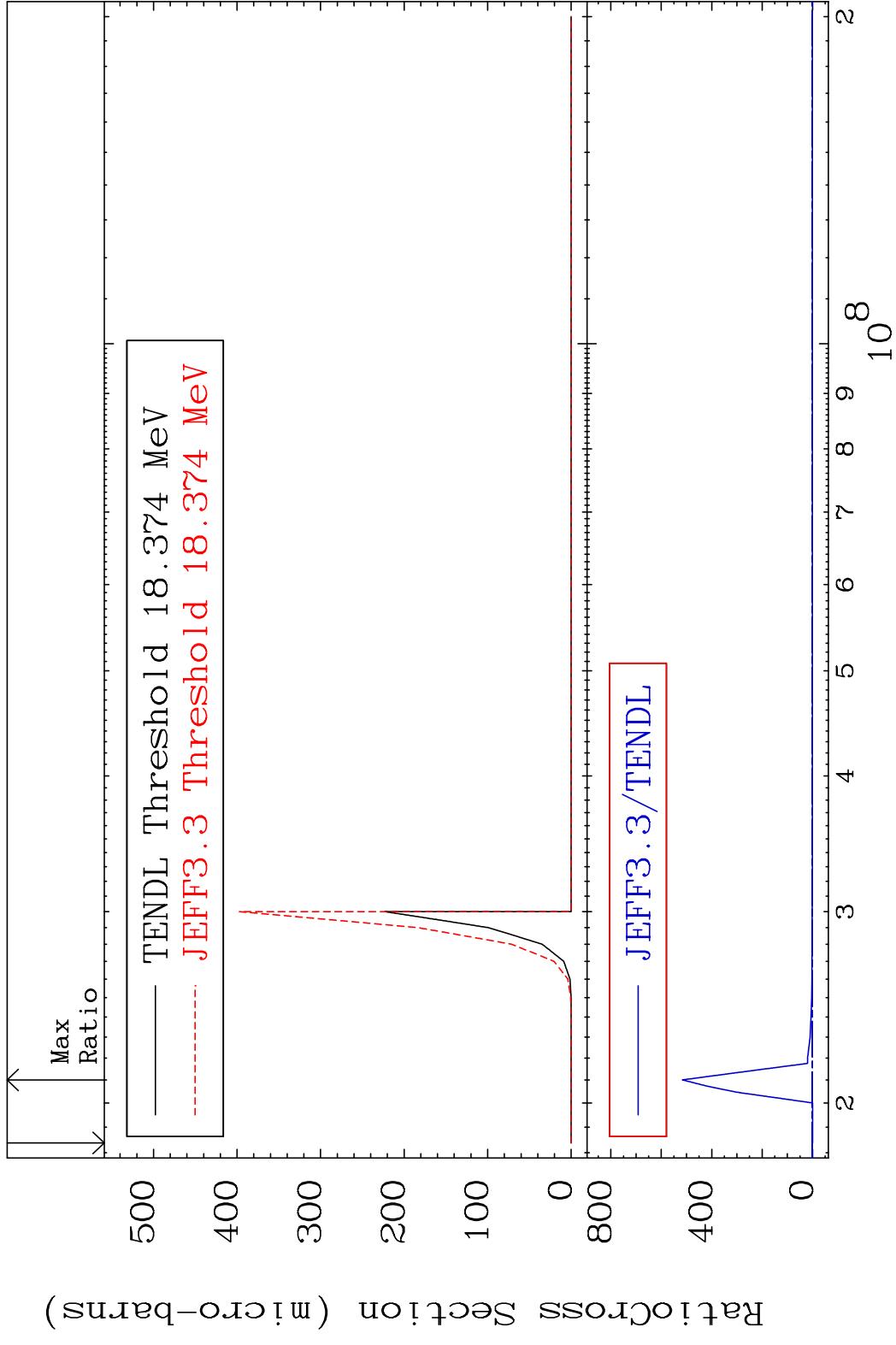
MAT 7246 Dpa inelastic (mt51-91) 72-Hf-181
 Cross Section -5.169 To 9999. %



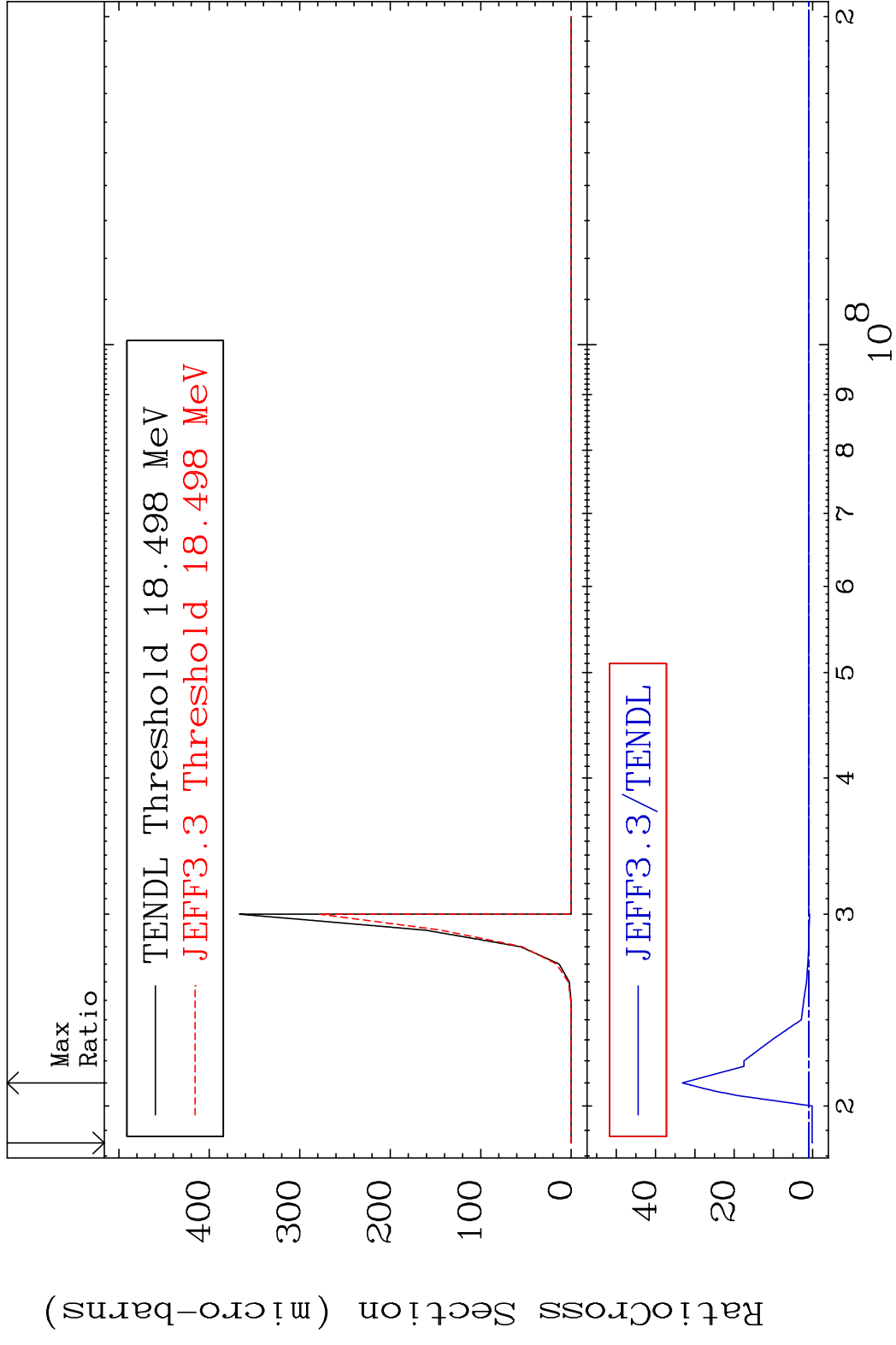
MAT 7246 Dpa disappearance (mt102 -120) 72-Hf-181
 Cross Section -100.0 To 9999. %



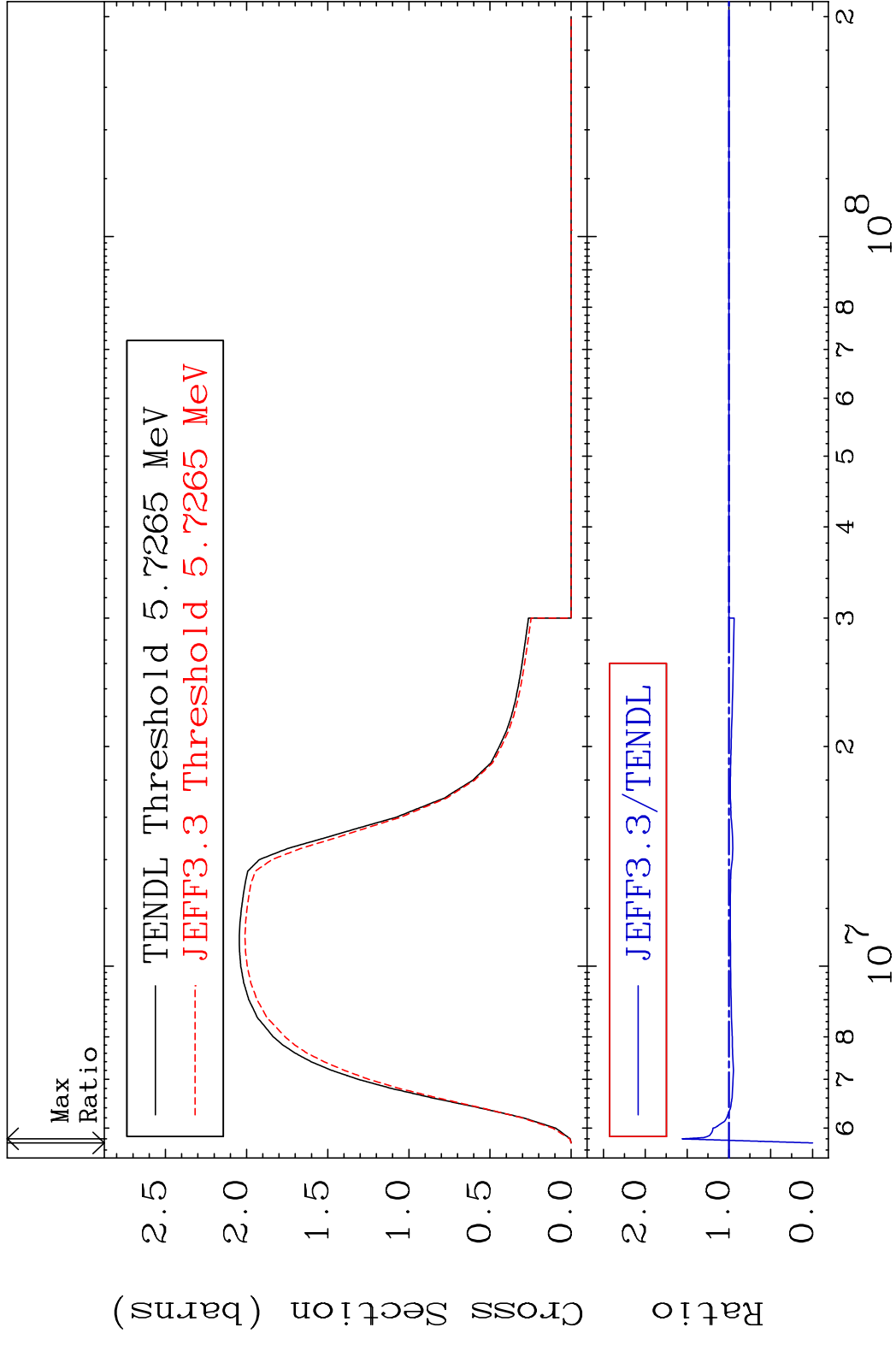
MAT 7246 (n,2n) d:71-Lu-178g 72-Hf-181
 Radionuclide Production Cross Section Ratio 9999. %



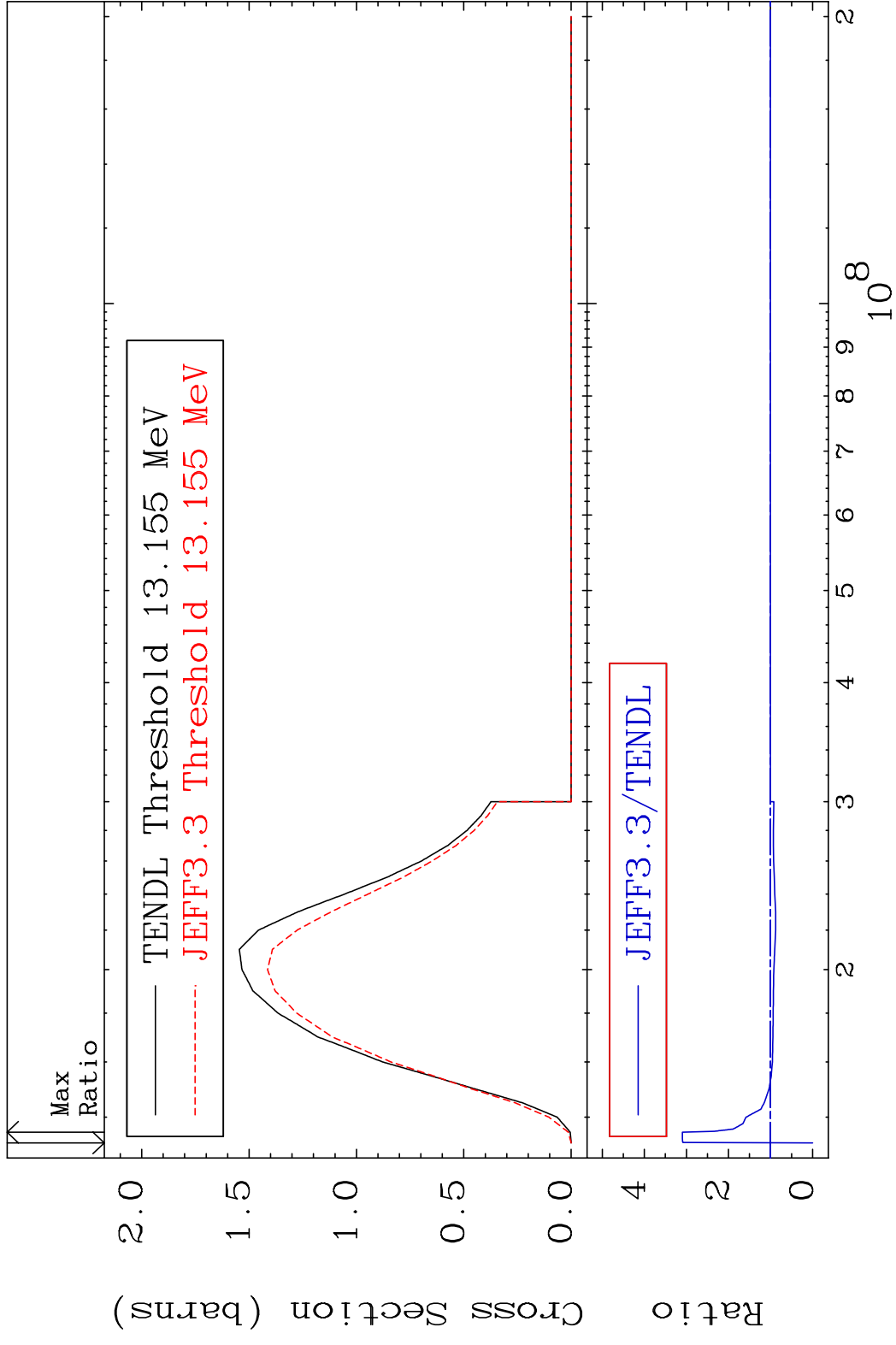
MAT 7246 (n,2n) d:71-Lu-178m3 72-Hf-181
 Radionuclide Production Cross Section 18.498 MeV 3218. %



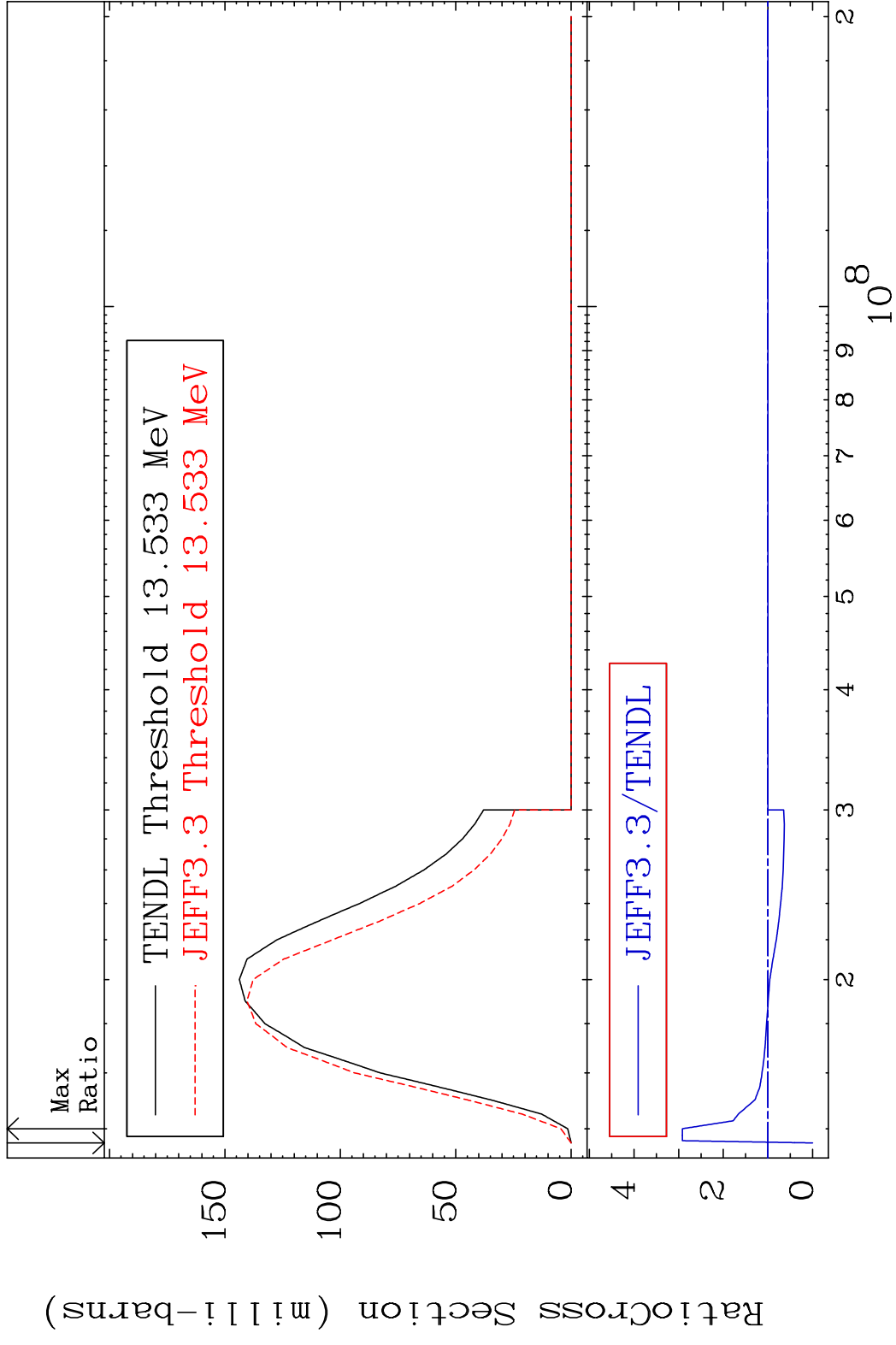
MAT 7246 (n,2n):72-Hf-180g 72-Hf-181
 Radionuclide Production Cross Section 55.72 %

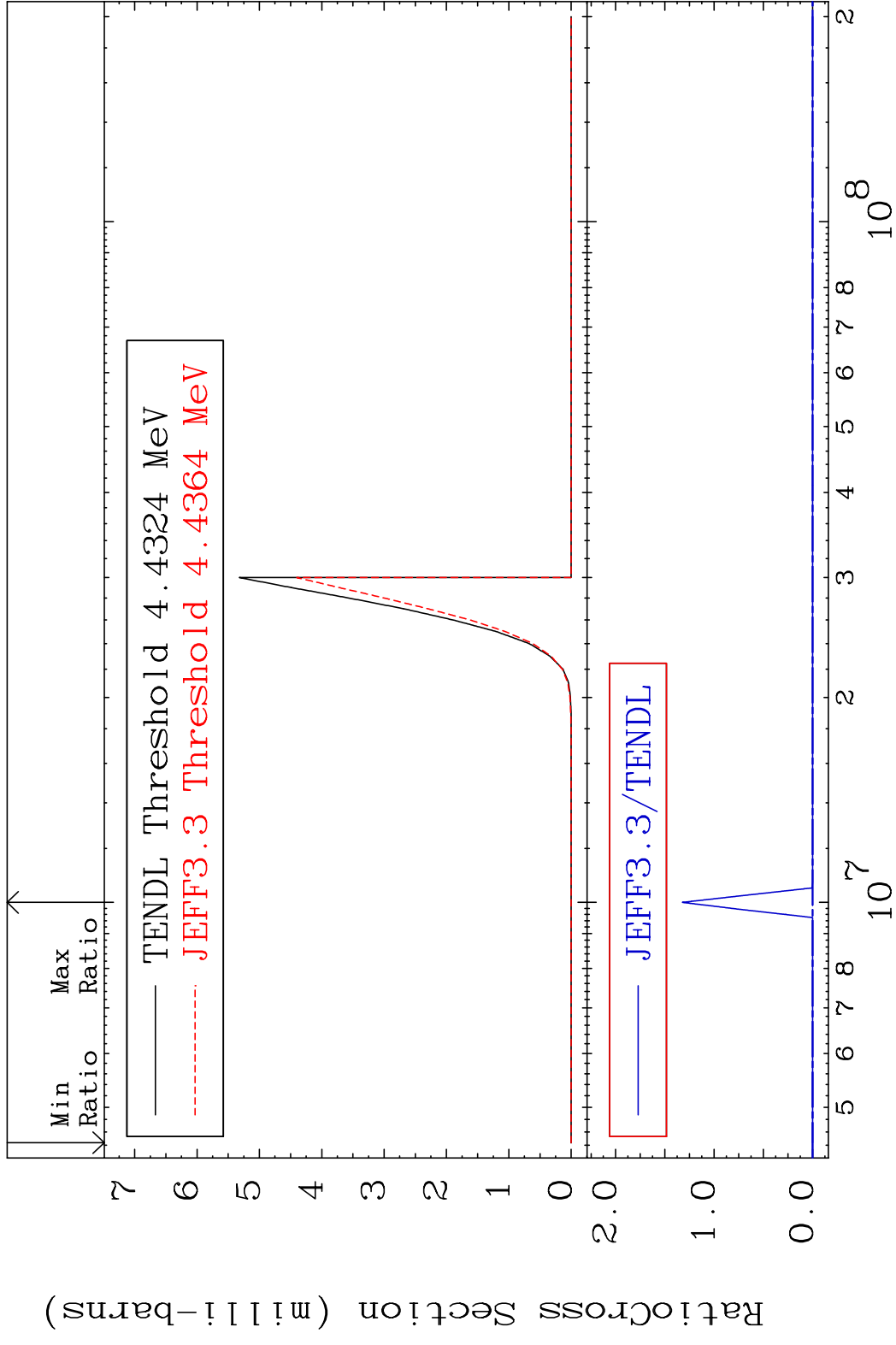


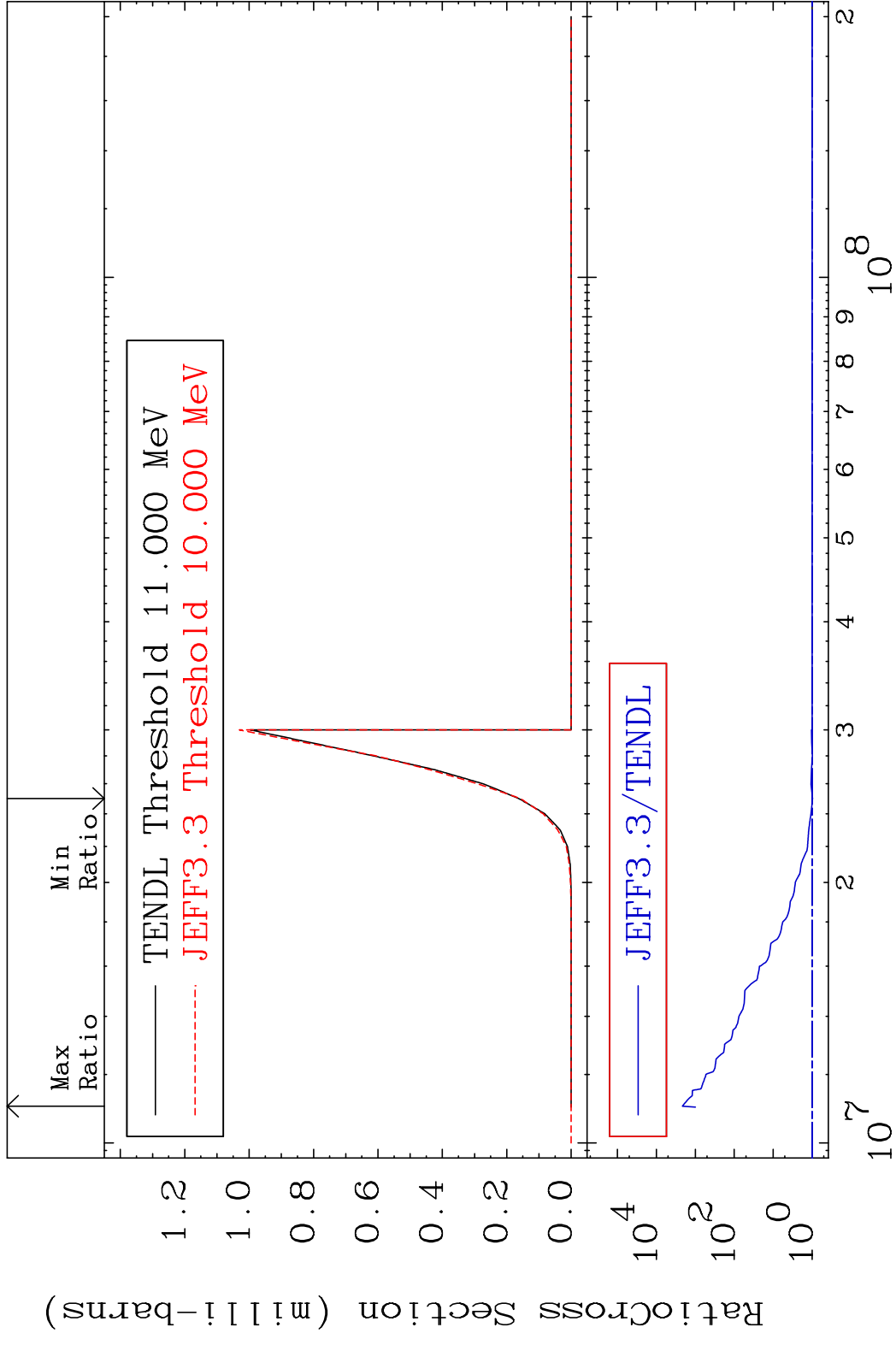
MAT 7246 (n,3n):72-Hf-179g 72-Hf-181
 Radionuclide Production Cross Section Ratio 209.7 %



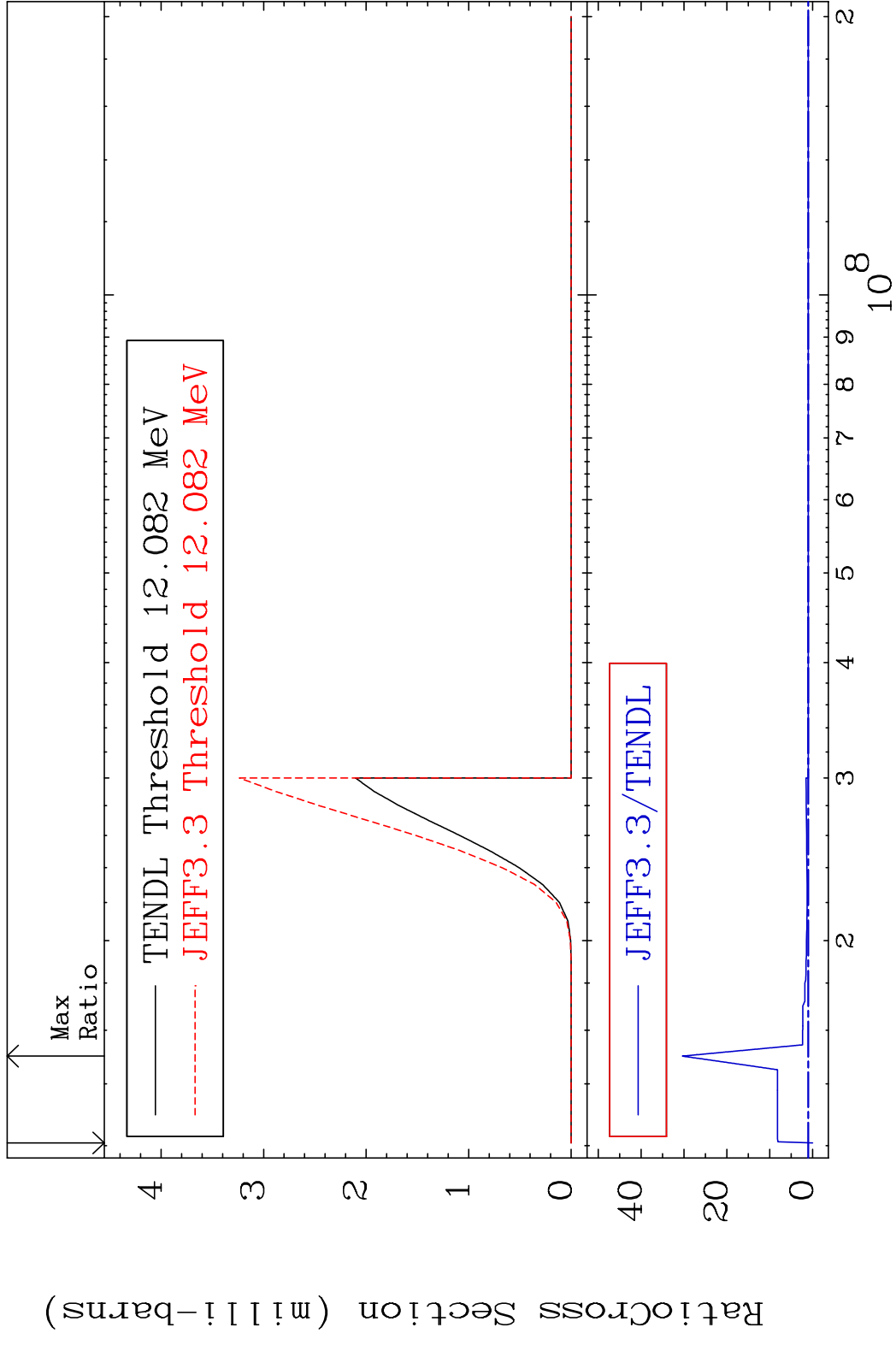
MAT 7246 (n, 3n): 72-Hf-179m5 72-Hf-181
 Radionuclide Production Cross Section 180.01 dth 191.8 %

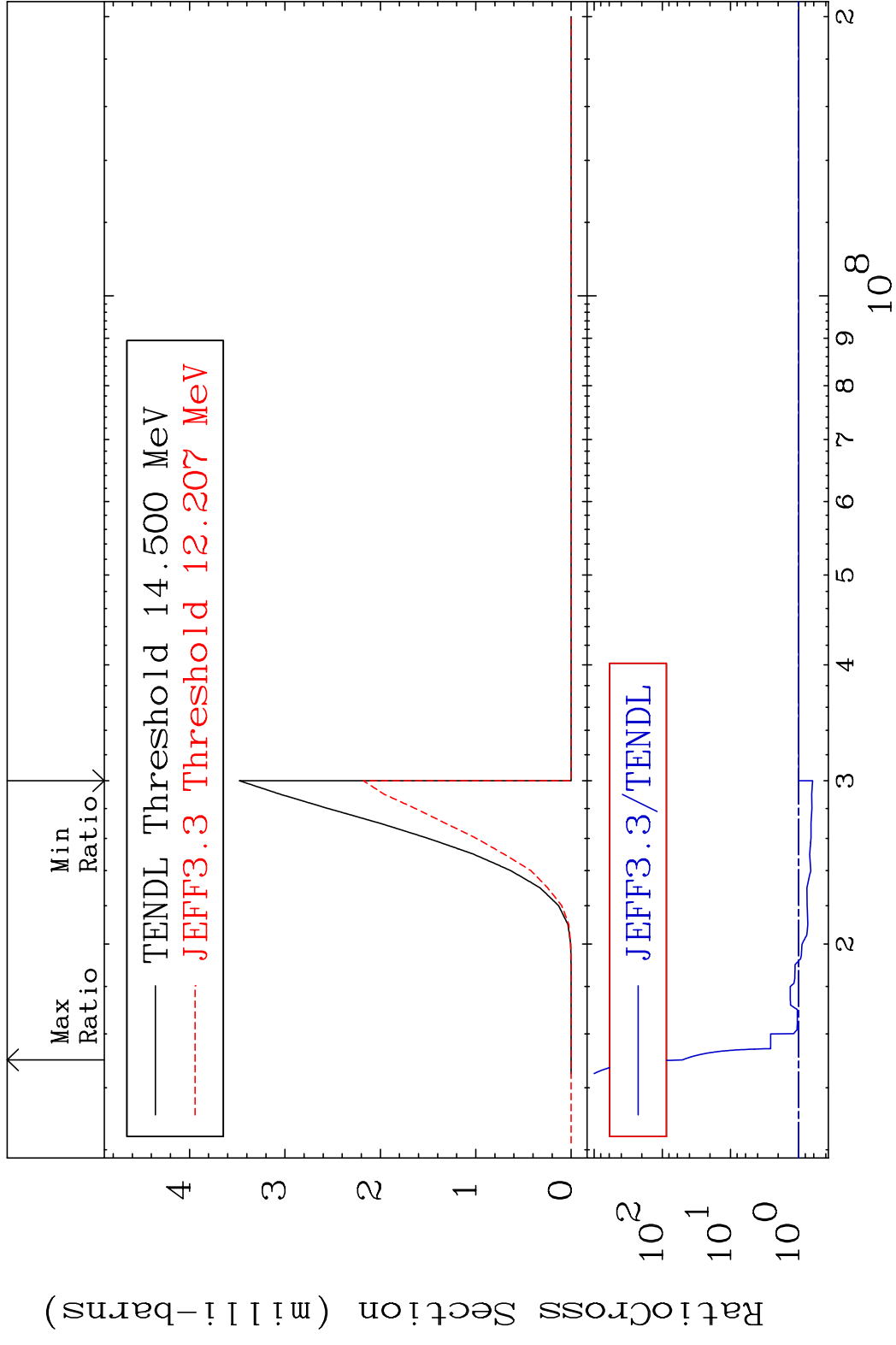




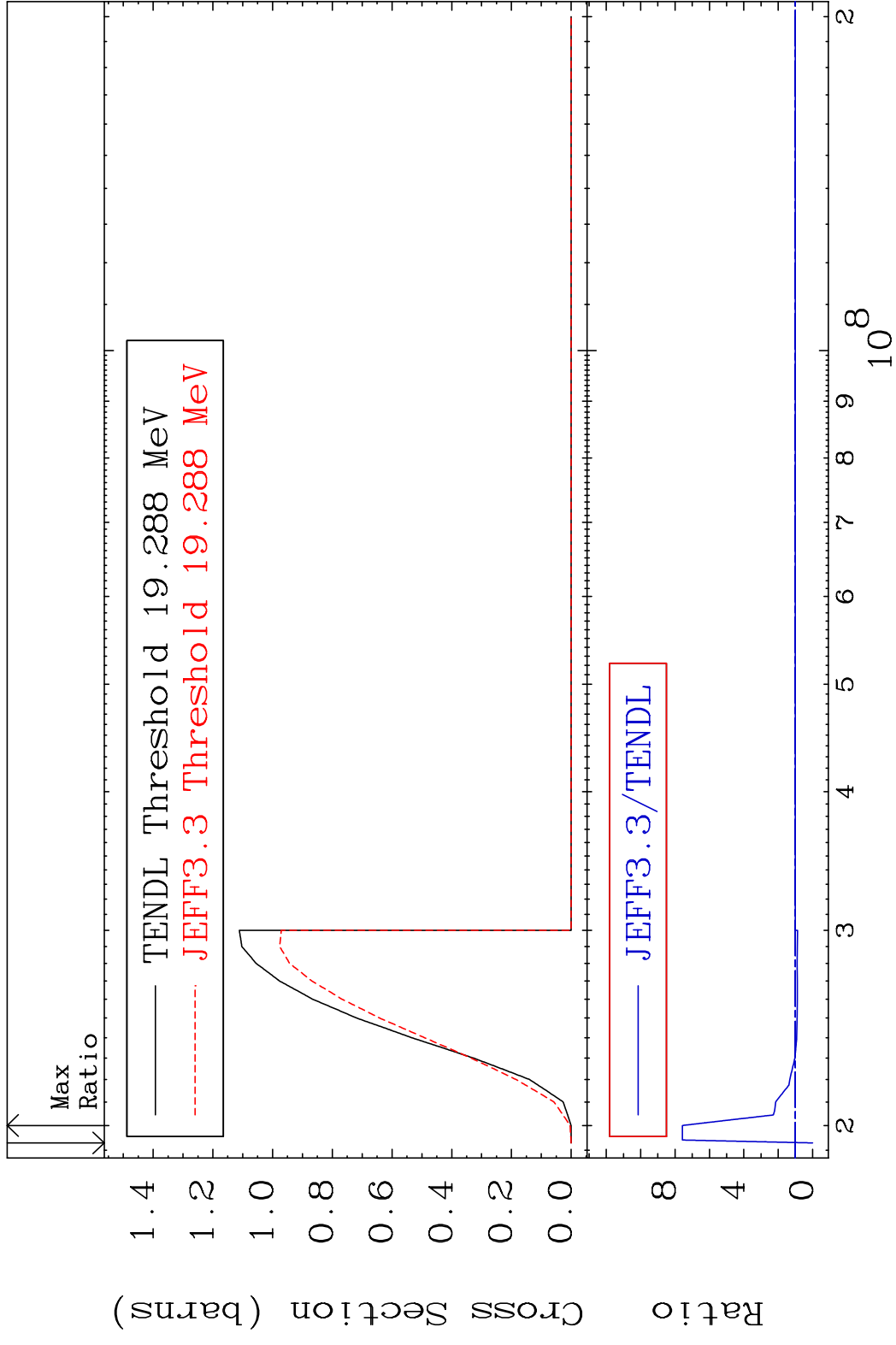


MAT 7246 (n, n') t:71-Lu-178g 72-Hf-181
 Radionuclide Production Cross Section 180.01 dth 2936. %





MAT 7246 (n,4n):72-Hf-178g 72-Hf-181
 Radionuclide Production Cross Section 180.01 dth 657.5 %



MAT 7246 (n, 4n): 72-Hf-181 72-Hf-181
 Radionuclide Production Cross Section 180.01 dth 874.5 %

