

Program Complot
(Version 2021-1)

by

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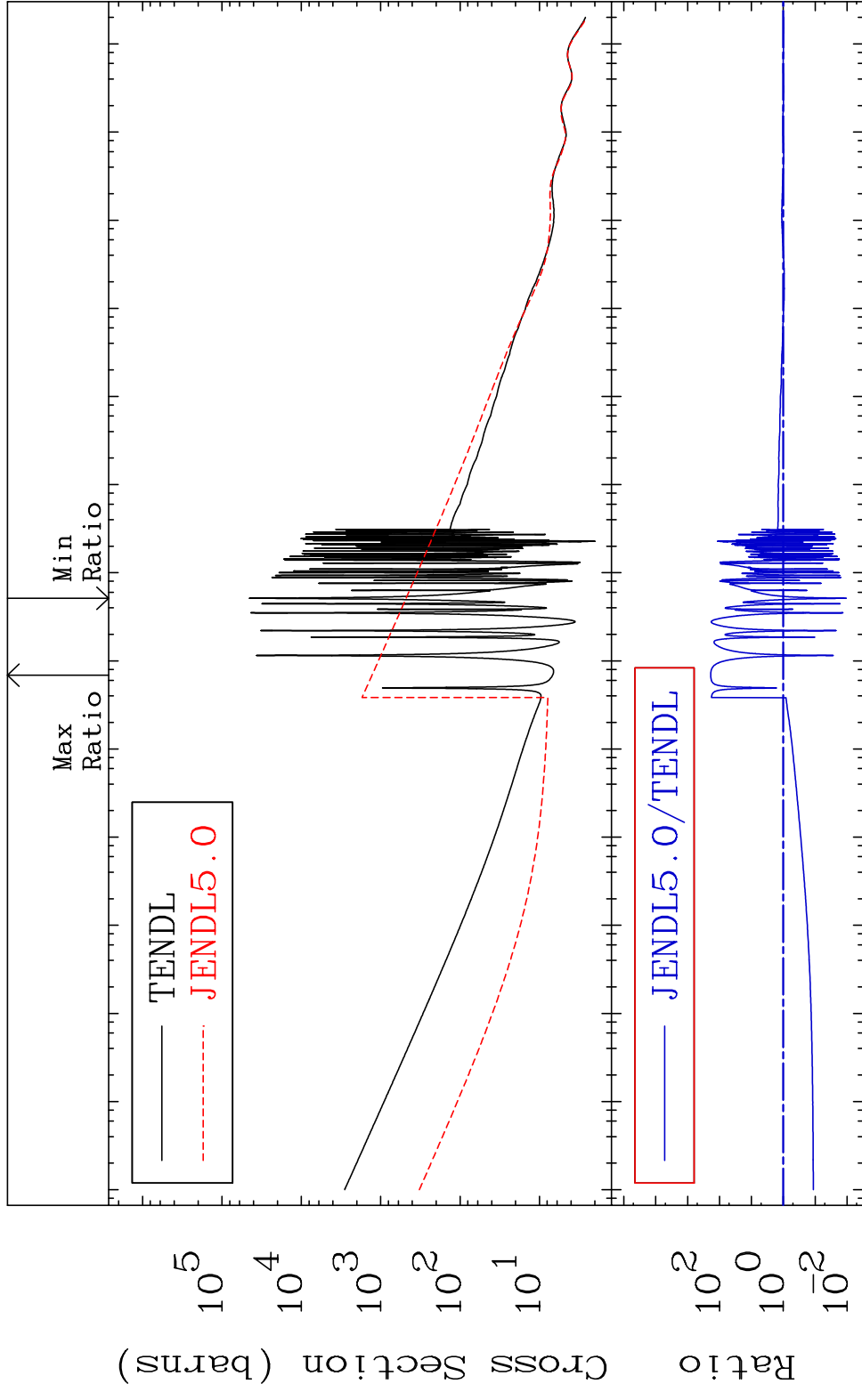
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7219

Total
Cross Section -98.94 To 9999. %

72-Hf-172



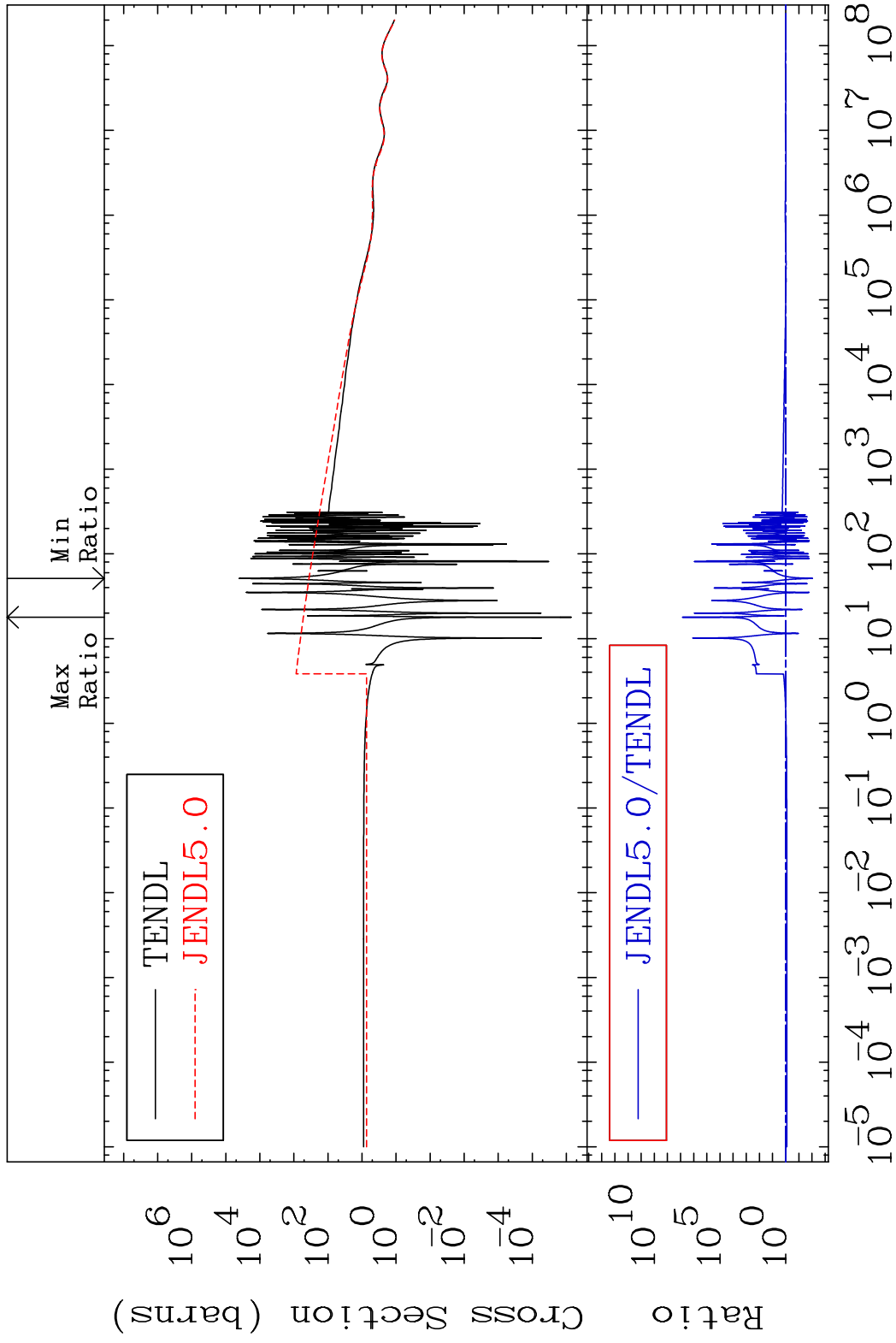
1 Incident Energy (eV) 72-Hf-172

MAT 7219

Elastic

72-Hf-172

Cross Section -99.10 To 9999. %



2

Incident Energy (eV)

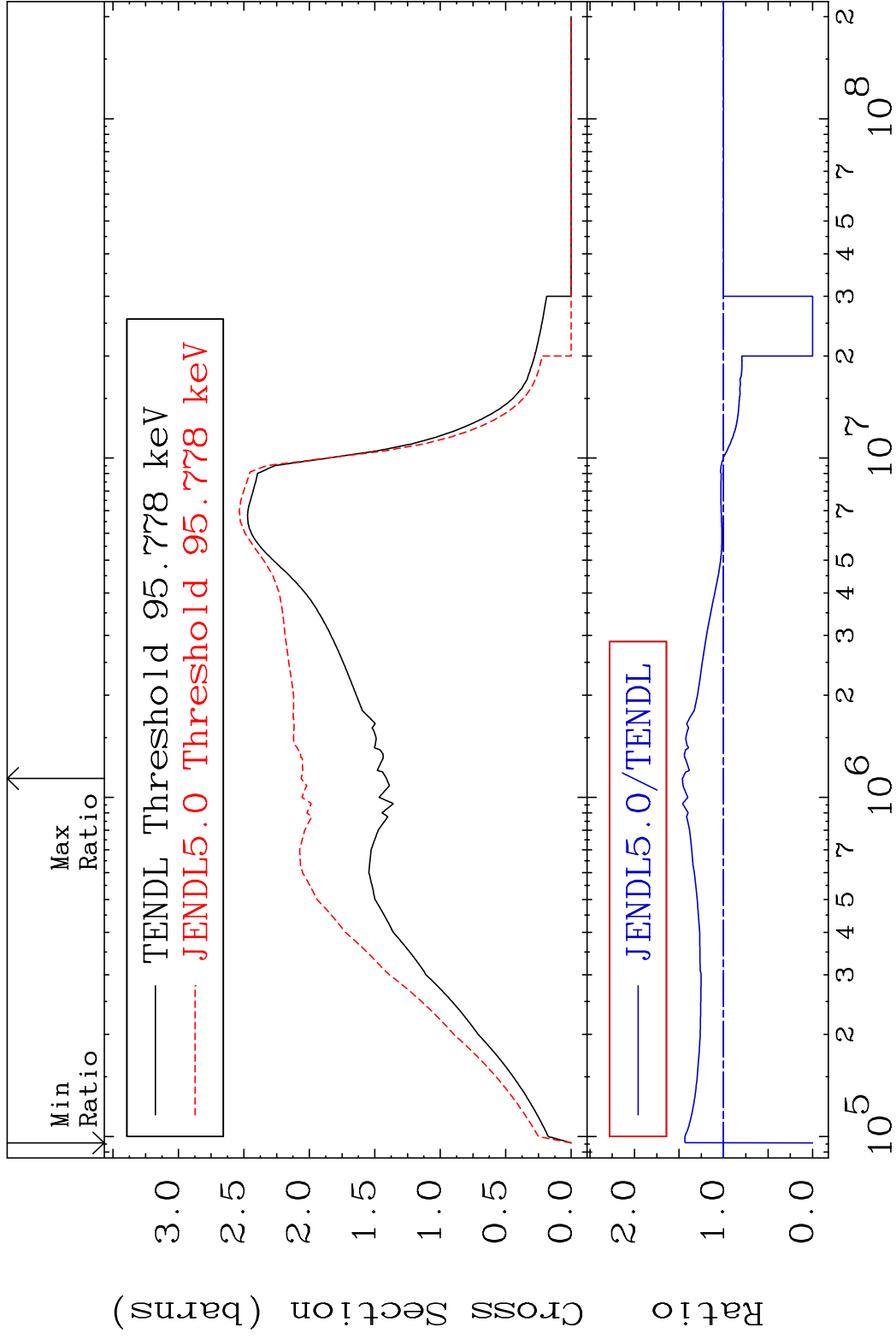
72-Hf-172

MAT 7219

Inelastic

72-Hf-172

Cross Section -100.0 To 46.23 %



3

Incident Energy (eV)

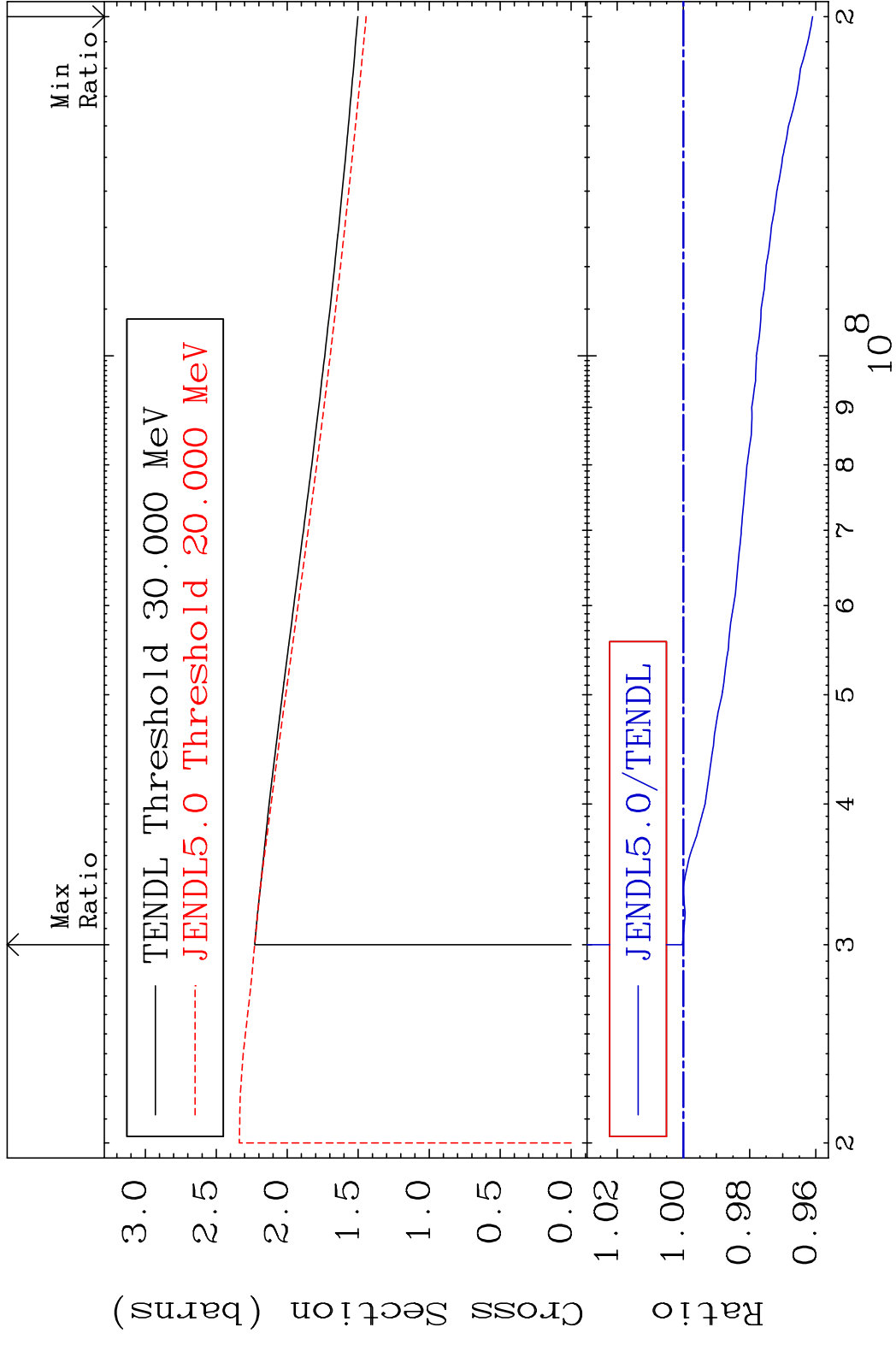
72-Hf-172

MAT 7219

(n, remainder)

72-Hf-172

Cross Section -3.901 To 0.029 %



4

Incident Energy (eV)

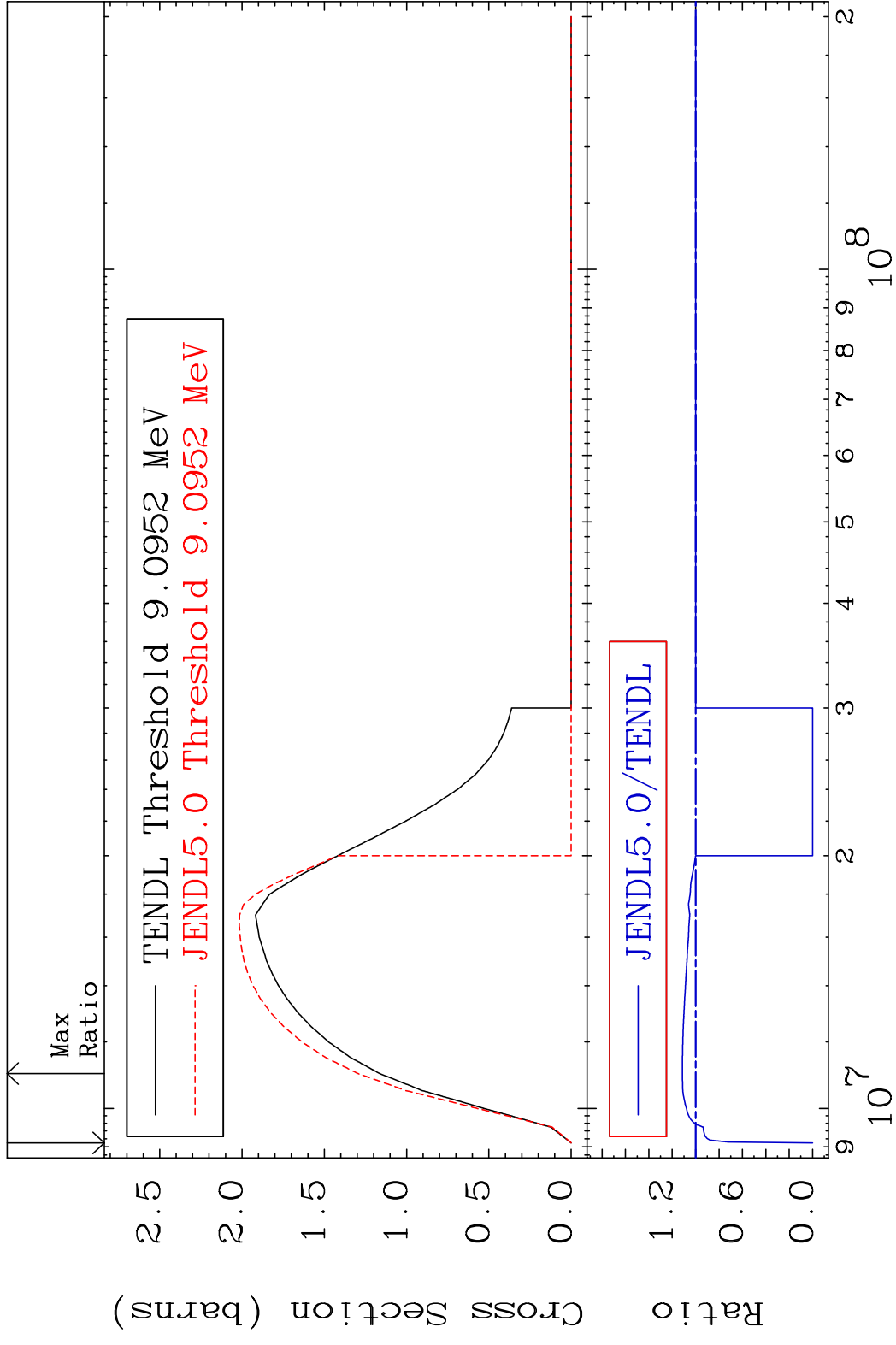
72-Hf-172

MAT 7219

(n,2n)

72-Hf-172

Cross Section -100.0 To 11.33 %



5

Incident Energy (eV)

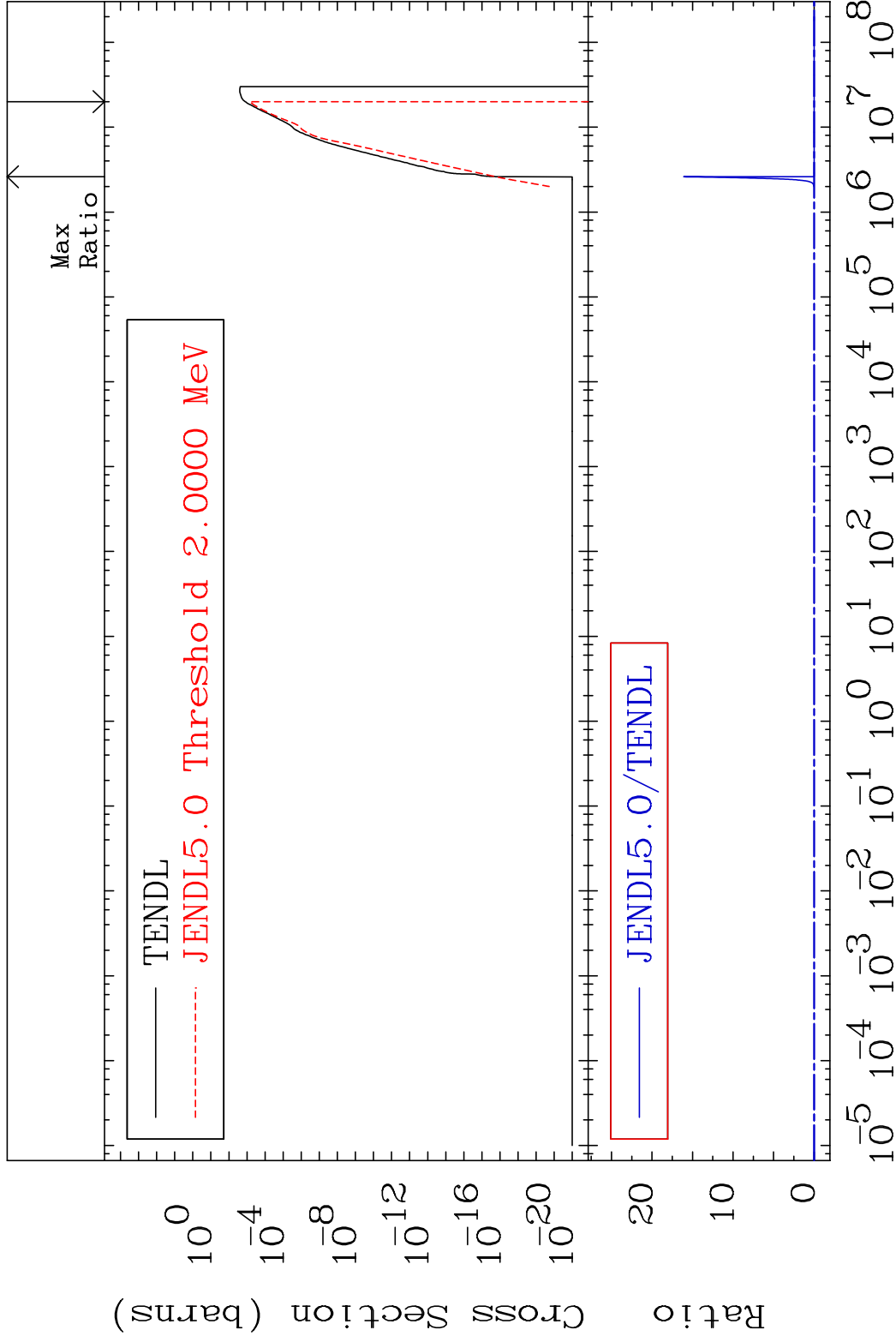
72-Hf-172

MAT 7219

(n, n') α

72-Hf-172

Cross Section -100.0 To 9999. %

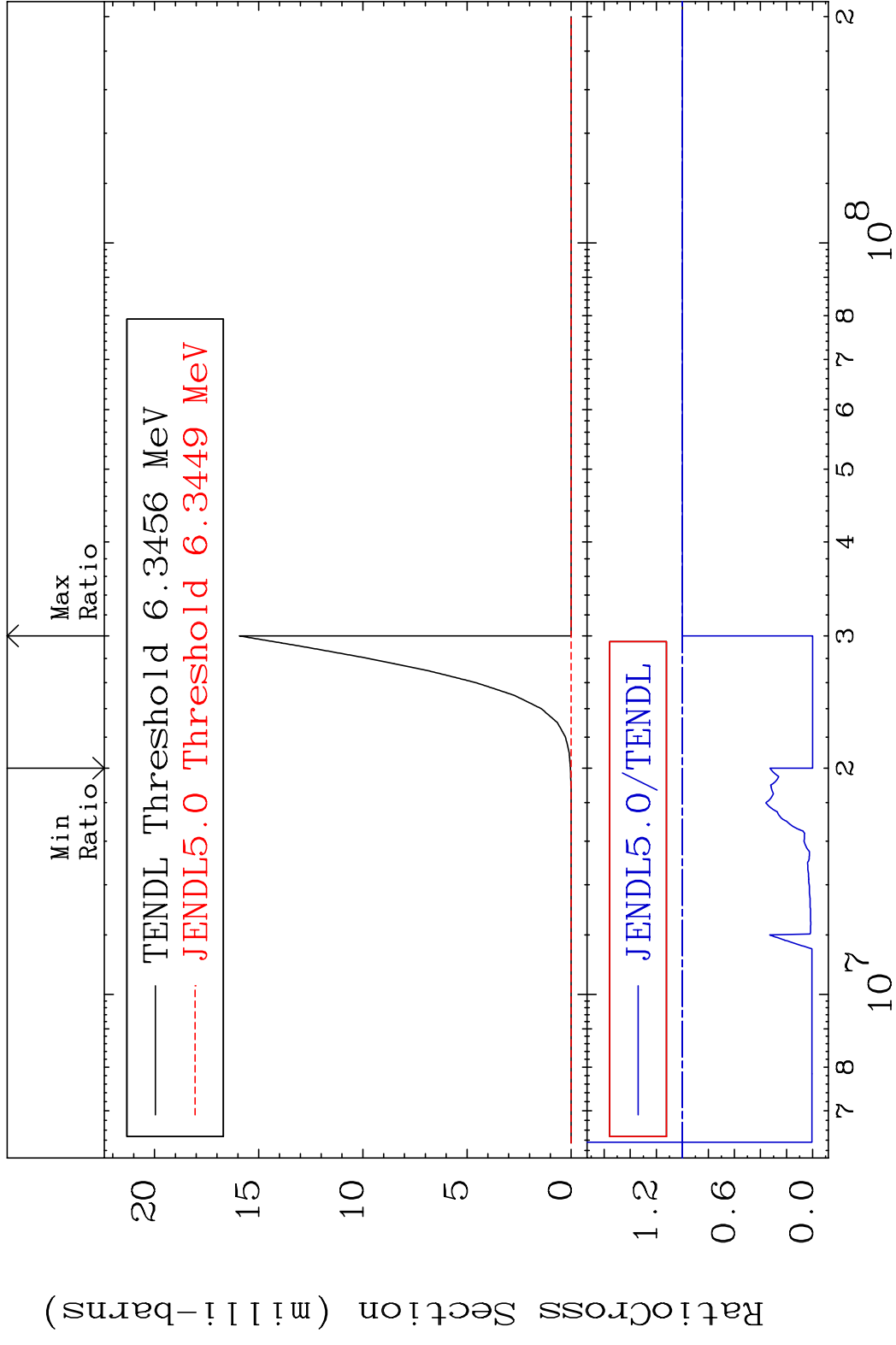


7

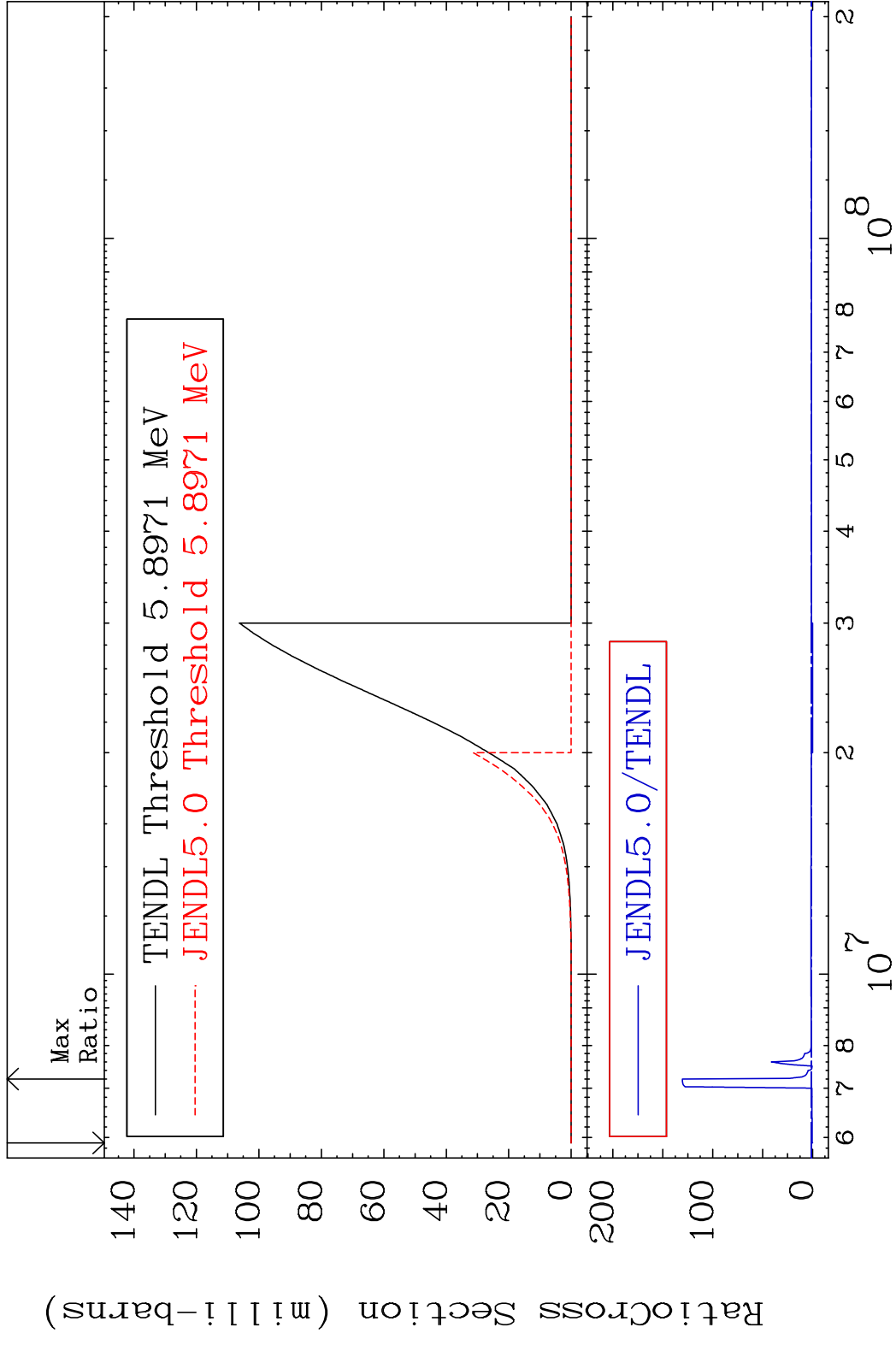
Incident Energy (eV)

72-Hf-172

MAT 7219 (n,2n) α 72-Hf-172
 Cross Section -100.0 To 0.000 %



MAT 7219 (n, n') p 72-Hf-172
 Cross Section -100.0 To 9999. %

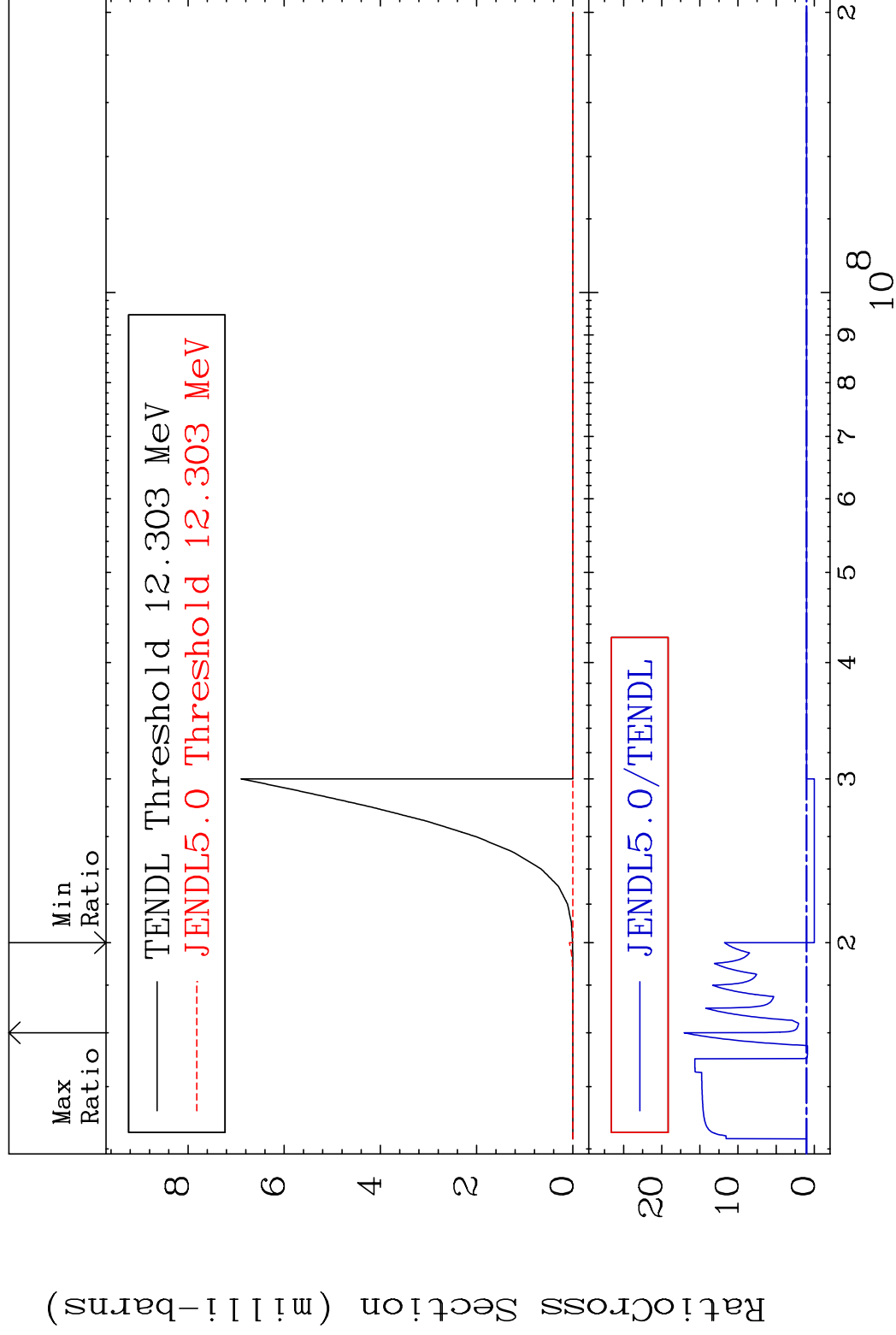


MAT 7219

(n, n') d

72-Hf-172

Cross Section -100.0 To 1607. %

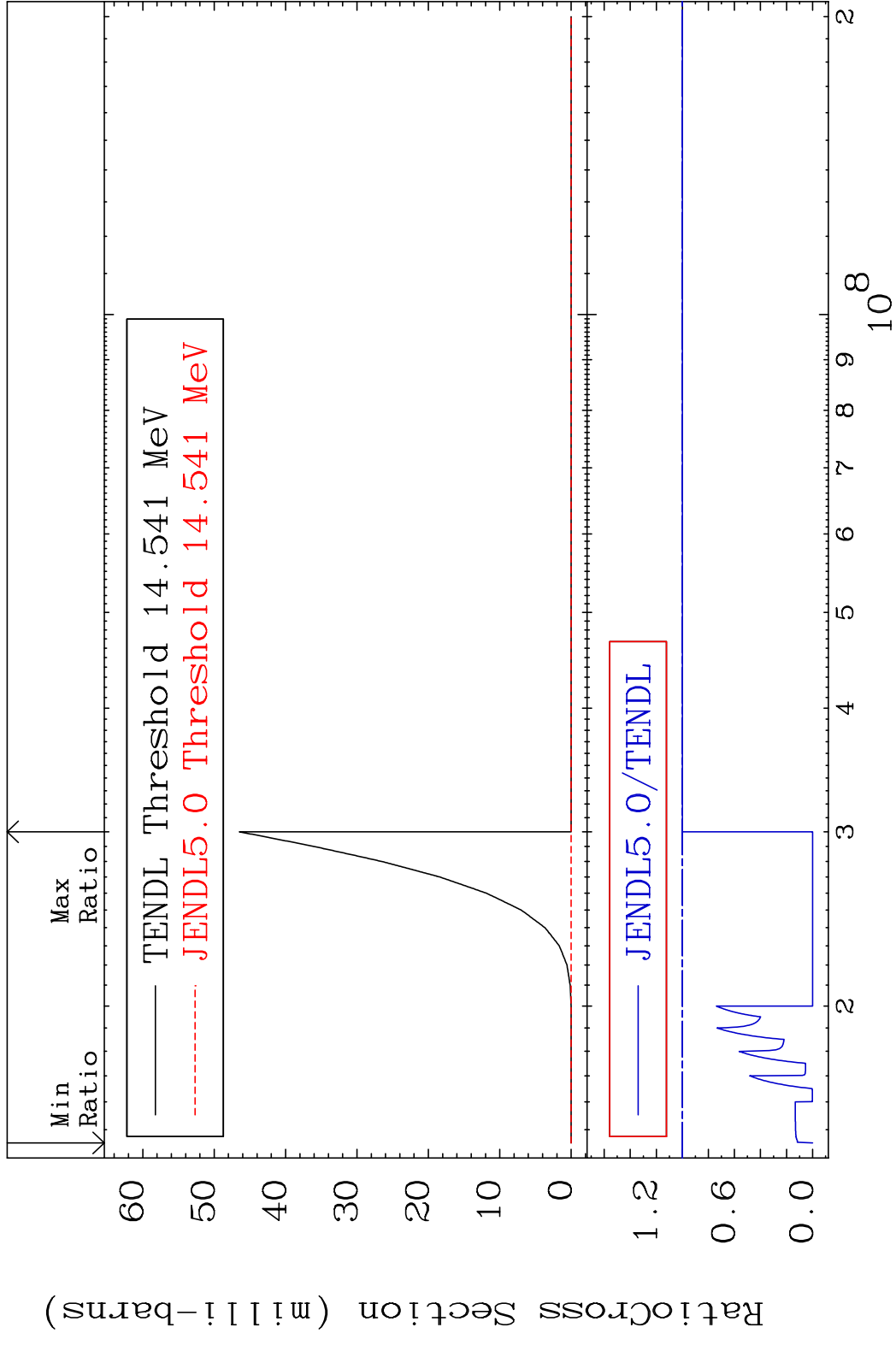


10

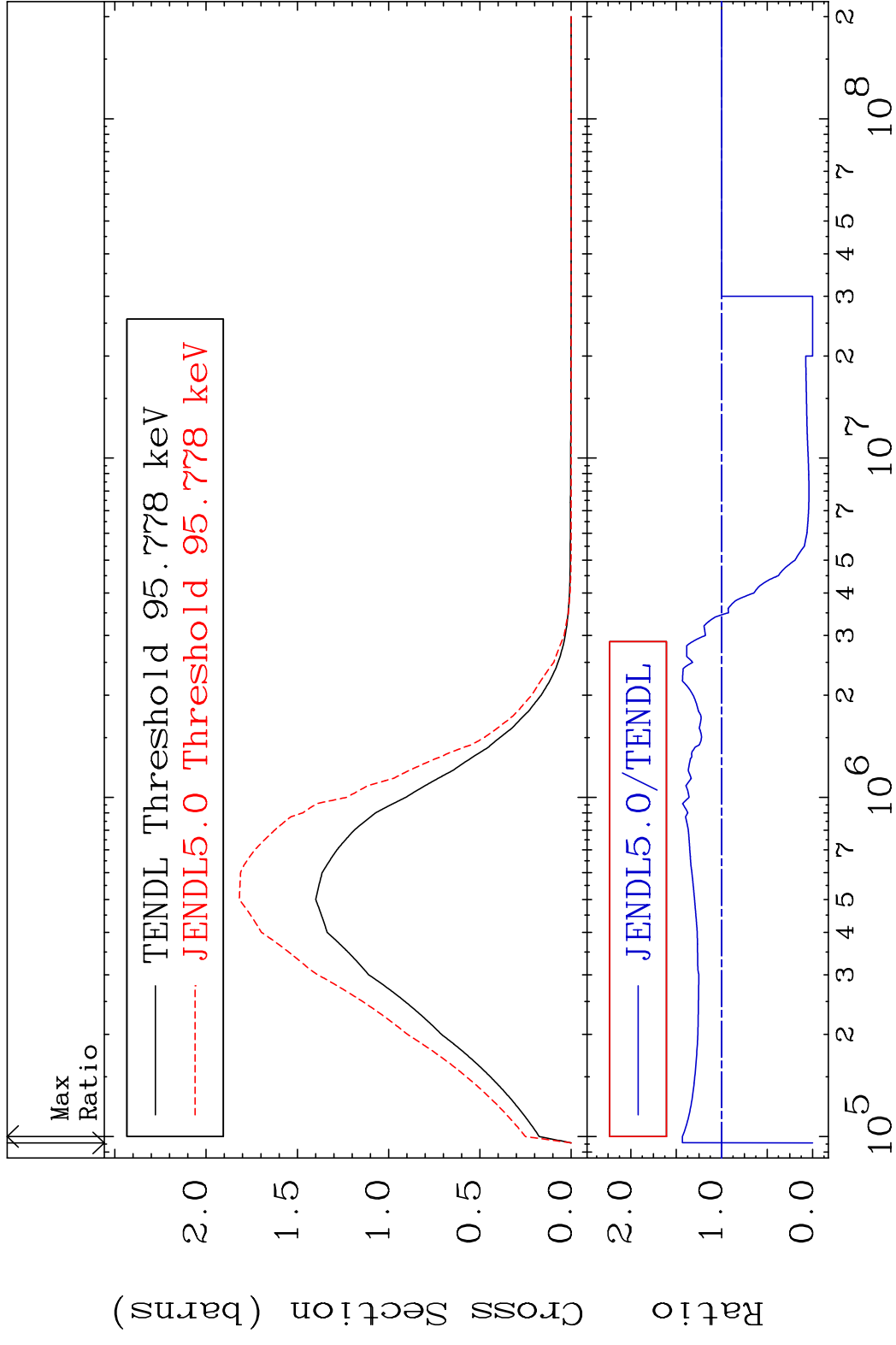
Incident Energy (eV)

72-Hf-172

MAT 7219 (n,2n) p 72-Hf-172
 Cross Section -100.0 To 0.000 %

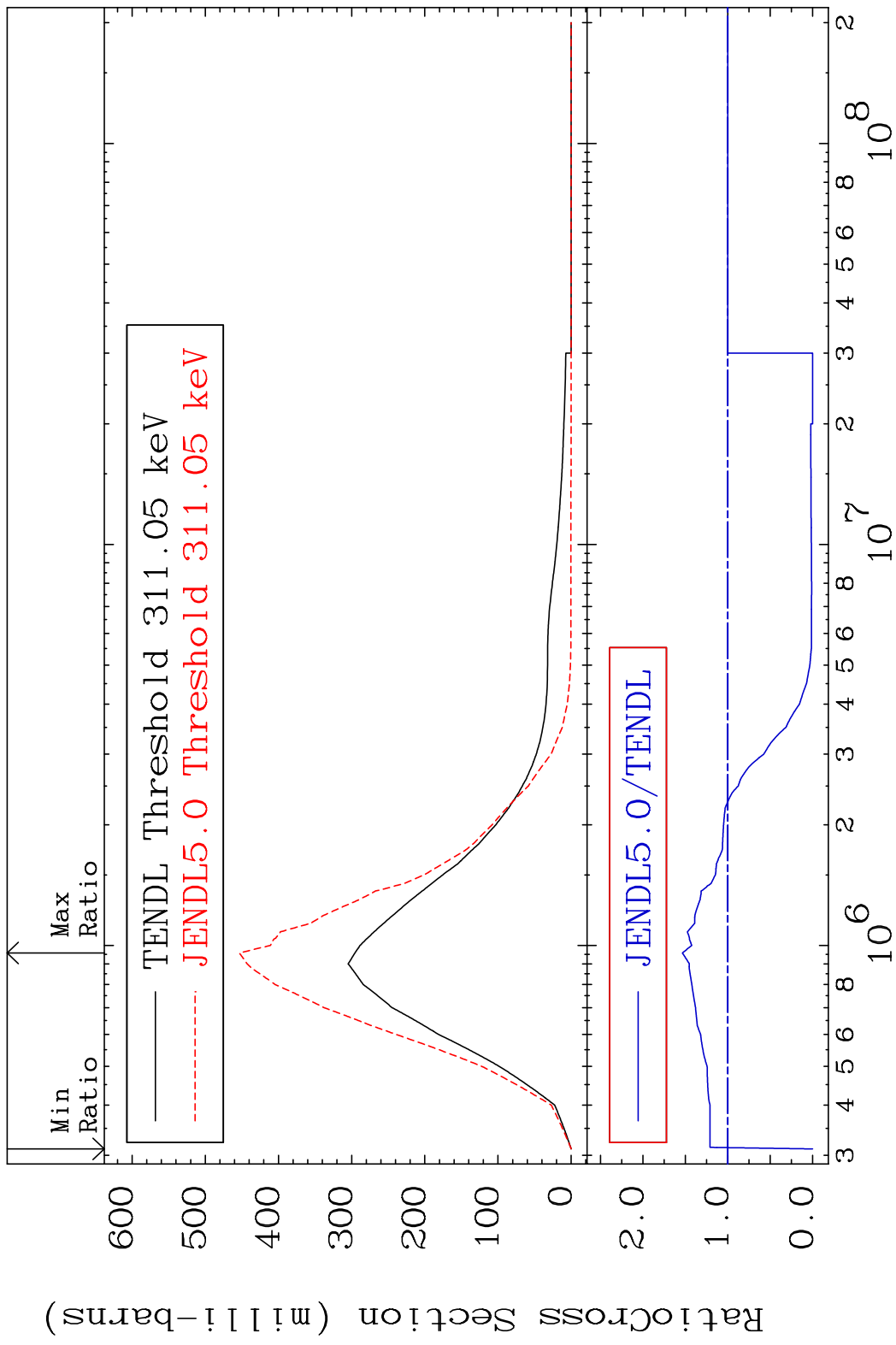


MAT 7219 MT= 51 (n,n') Level 72-Hf-172
 Cross Section -100.0 To 43.27 %

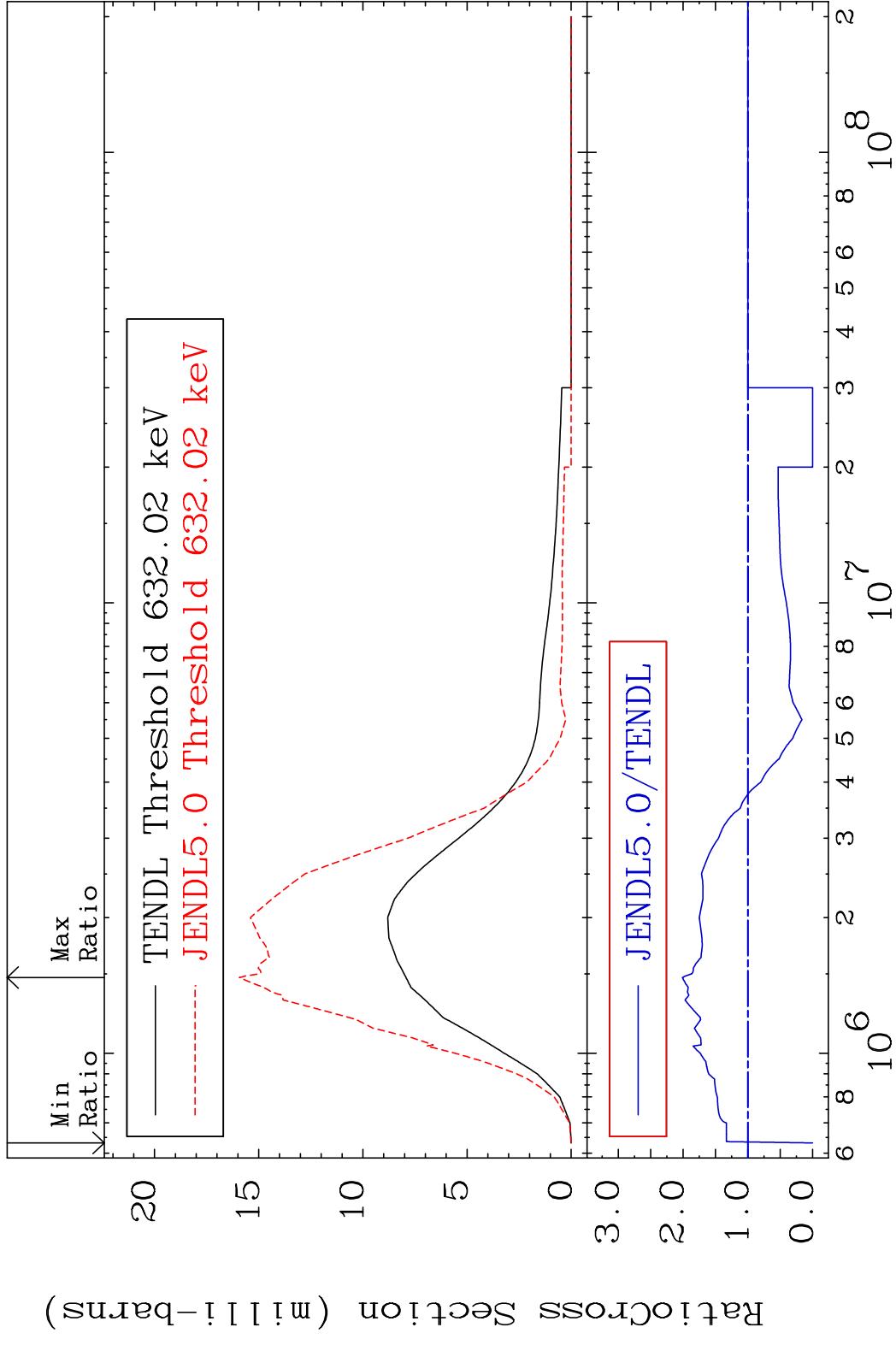


12 Incident Energy (eV) 72-Hf-172

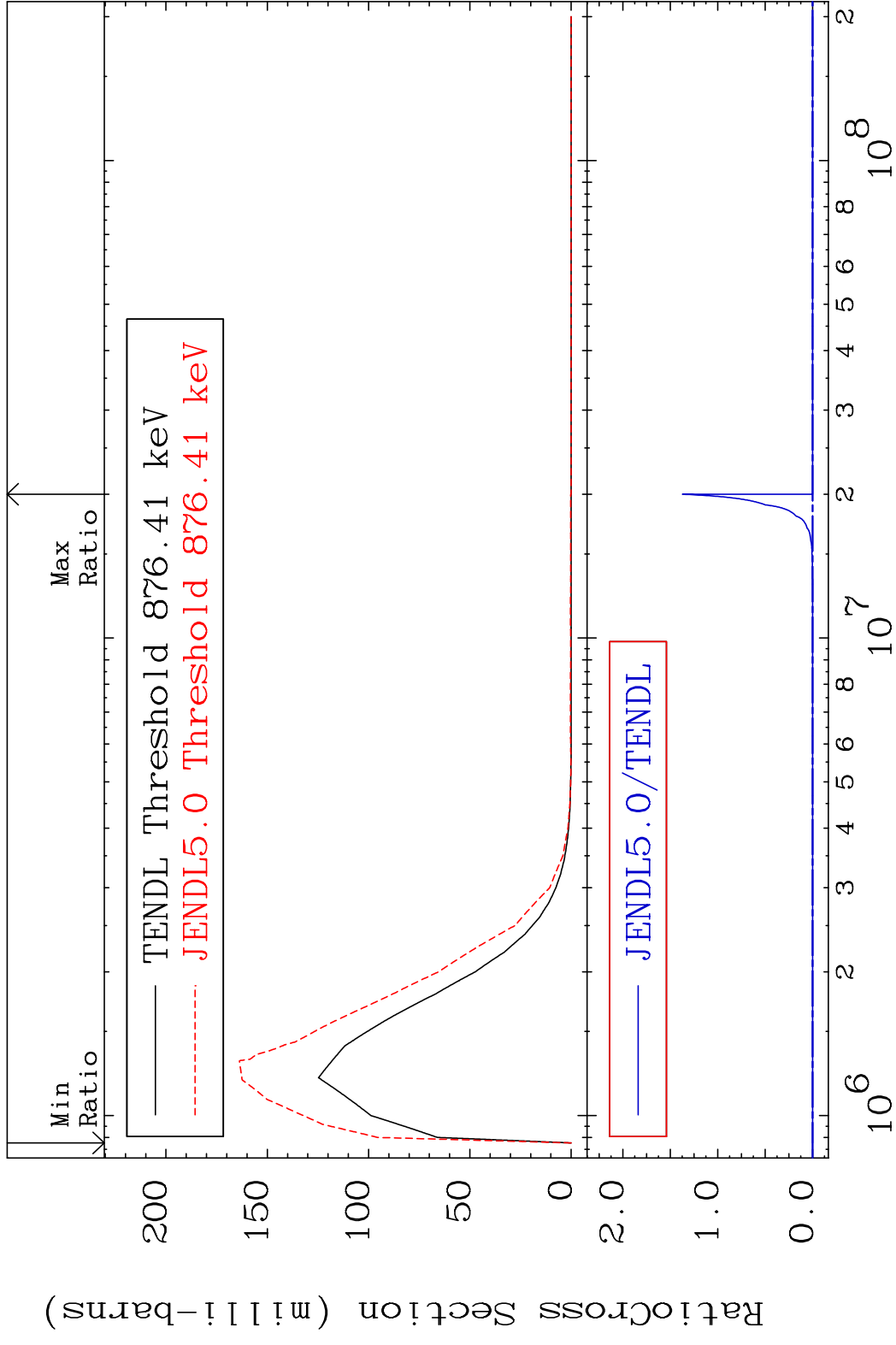
MAT 7219 MT= 52 (n,n') Level 72-Hf-172
 Cross Section -100.0 To 53.51 %



MAT 7219 MT= 53 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 101.0 %

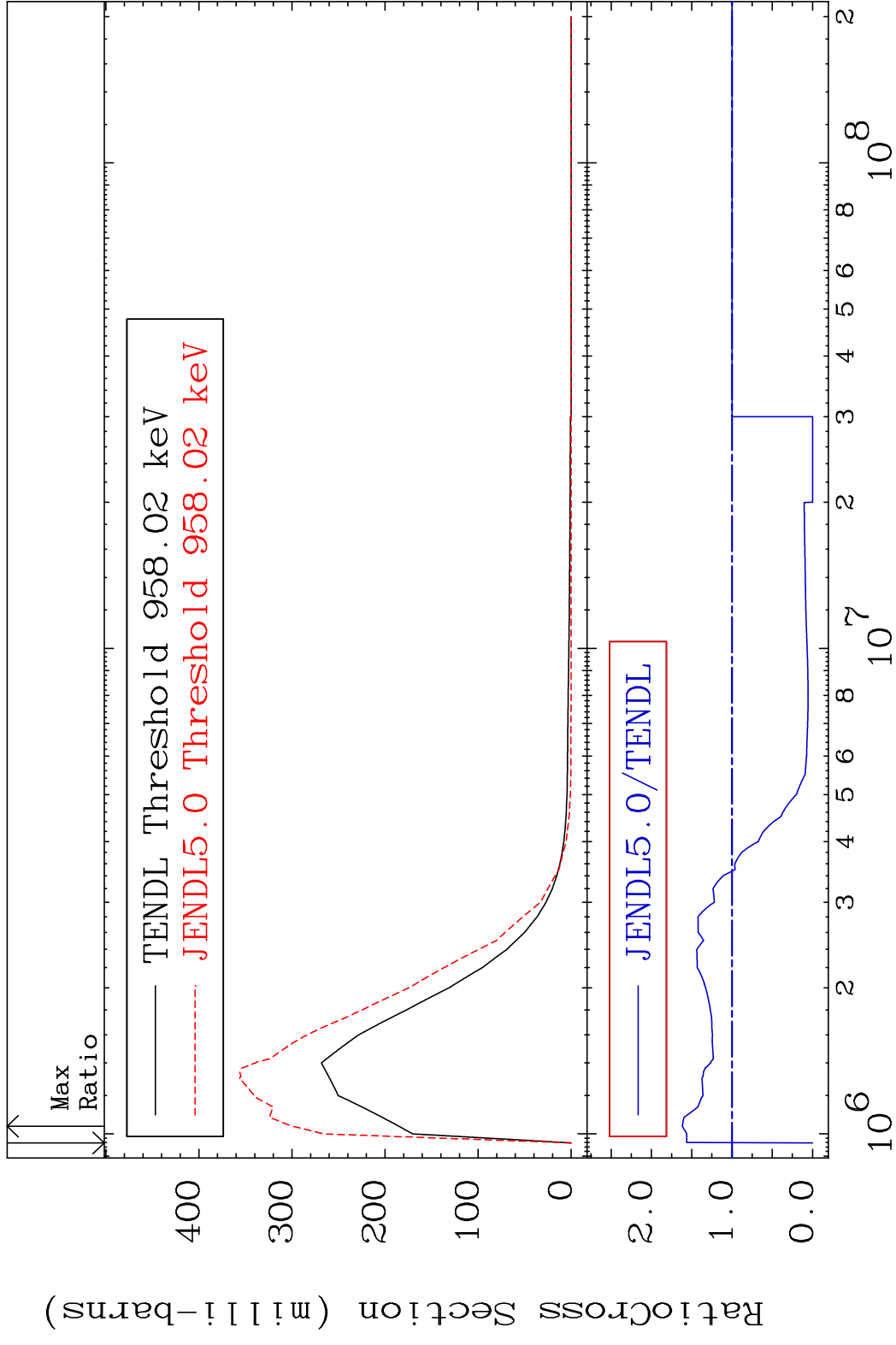


MAT 7219 MT= 54 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



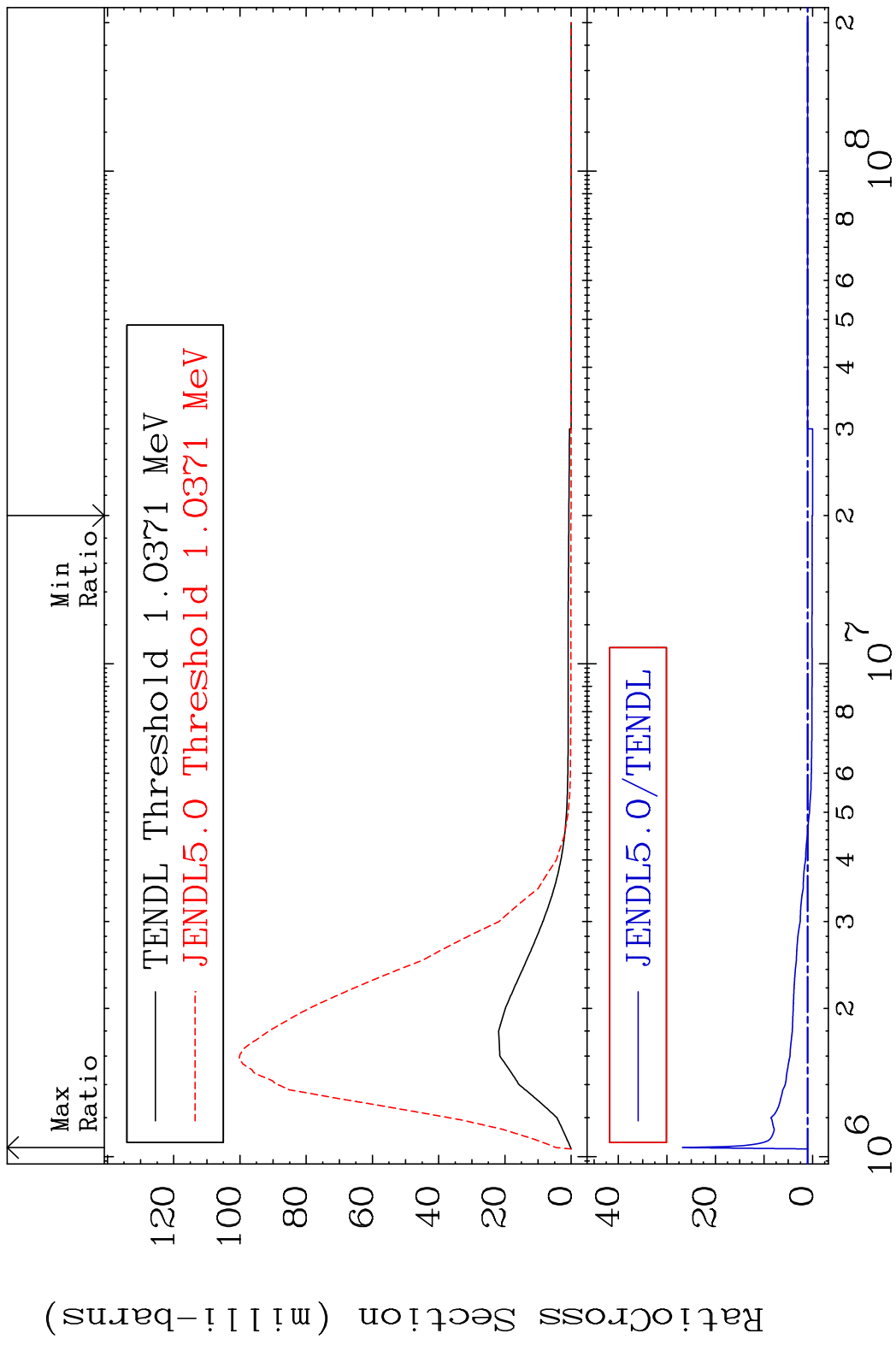
15 Incident Energy (eV) 72-Hf-172

MAT 7219 MT= 55 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 61.64 %



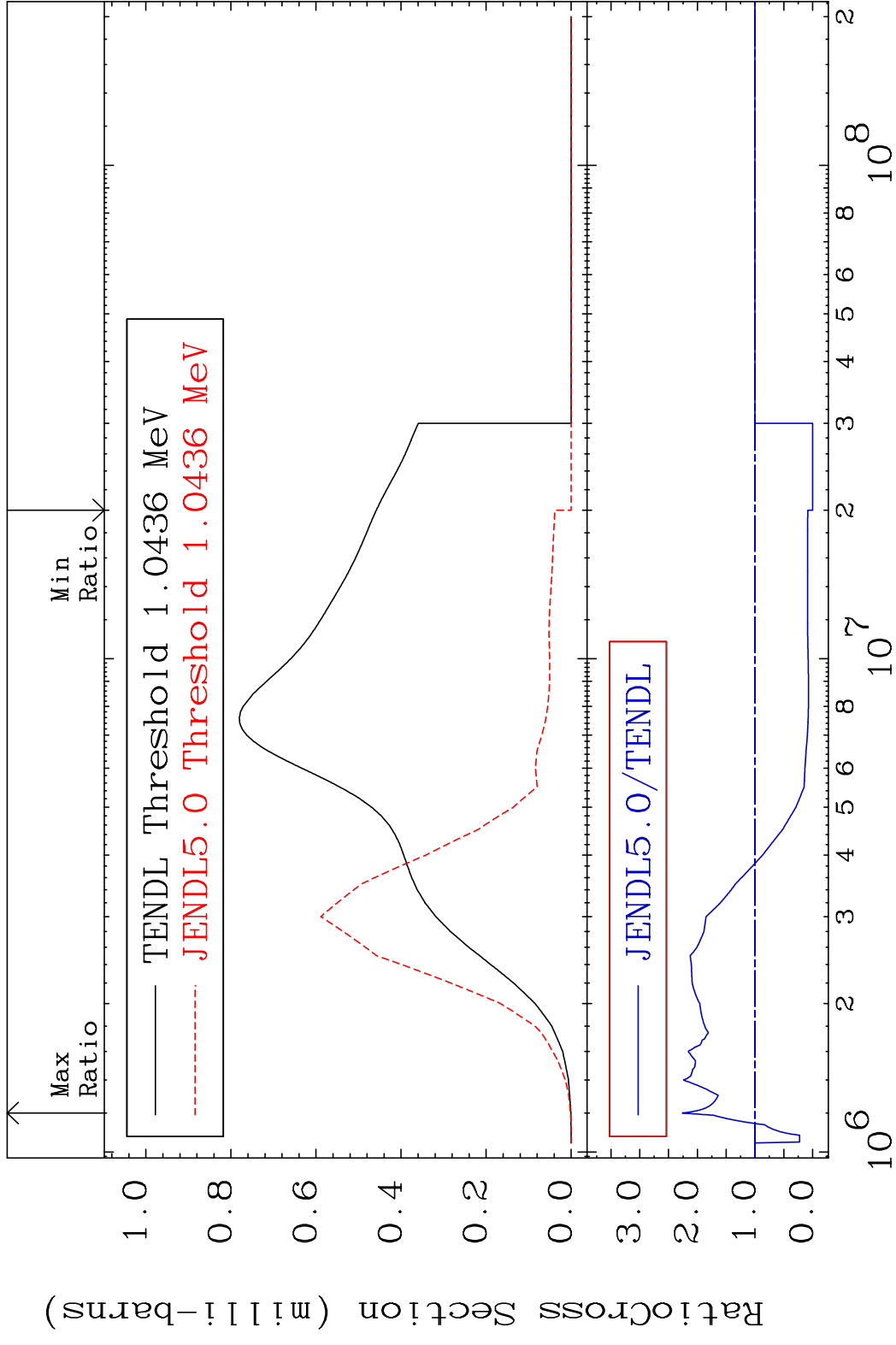
16 Incident Energy (eV) 72-Hf-172

MAT 7219 MT= 56 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 2582. %

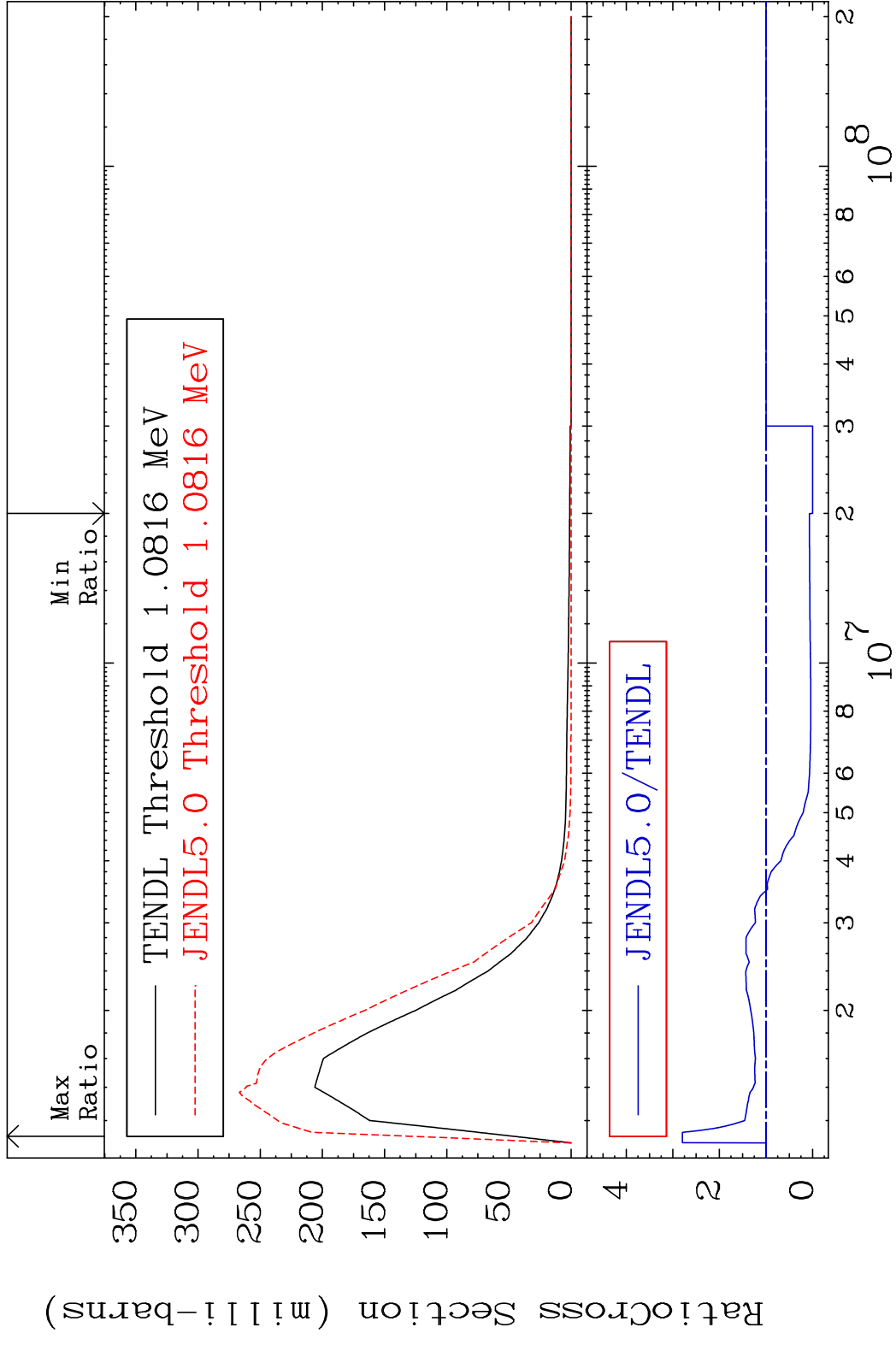


17 Incident Energy (eV) 72-Hf-172

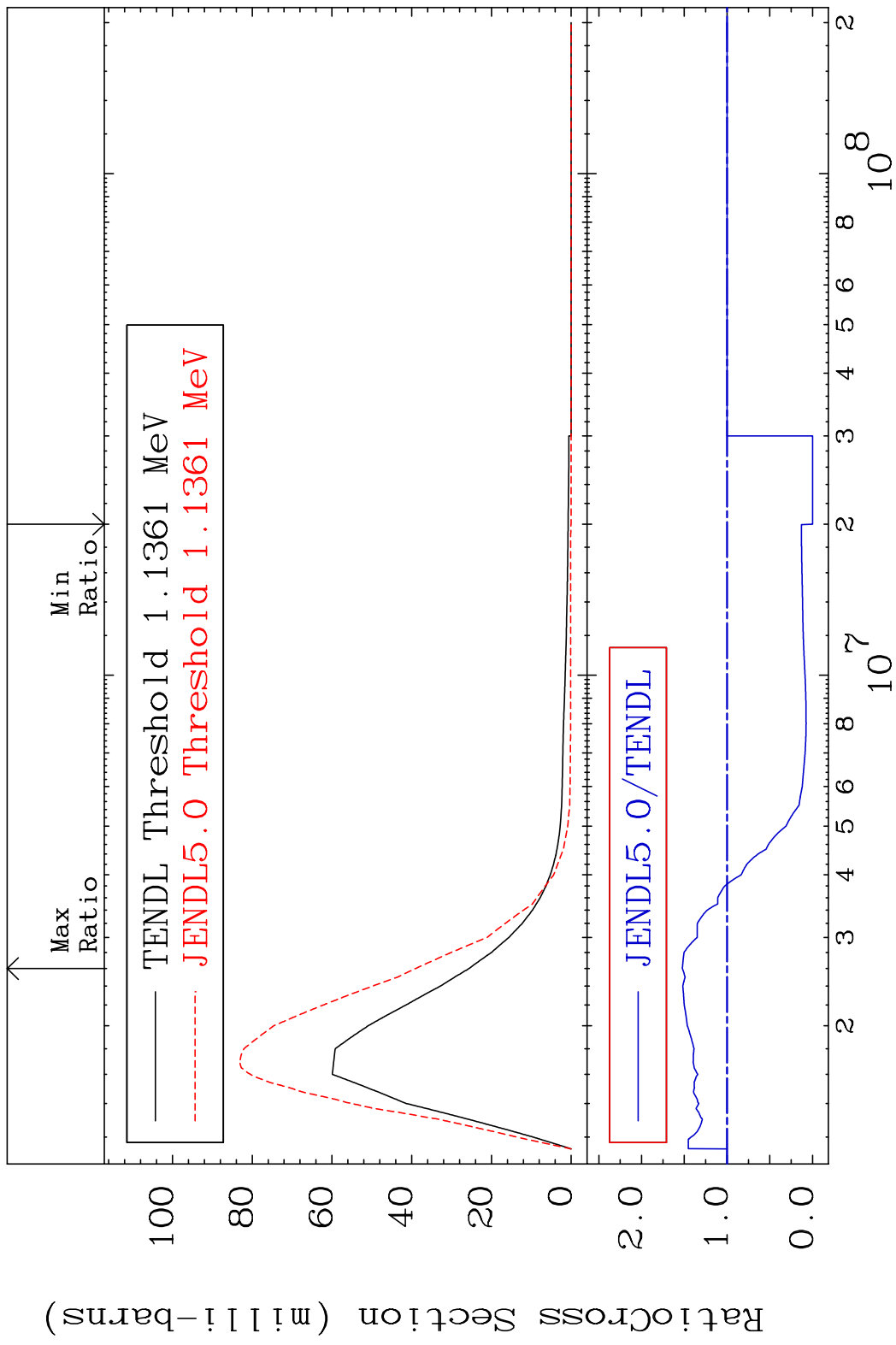
MAT 7219 MT= 57 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 126.1 %



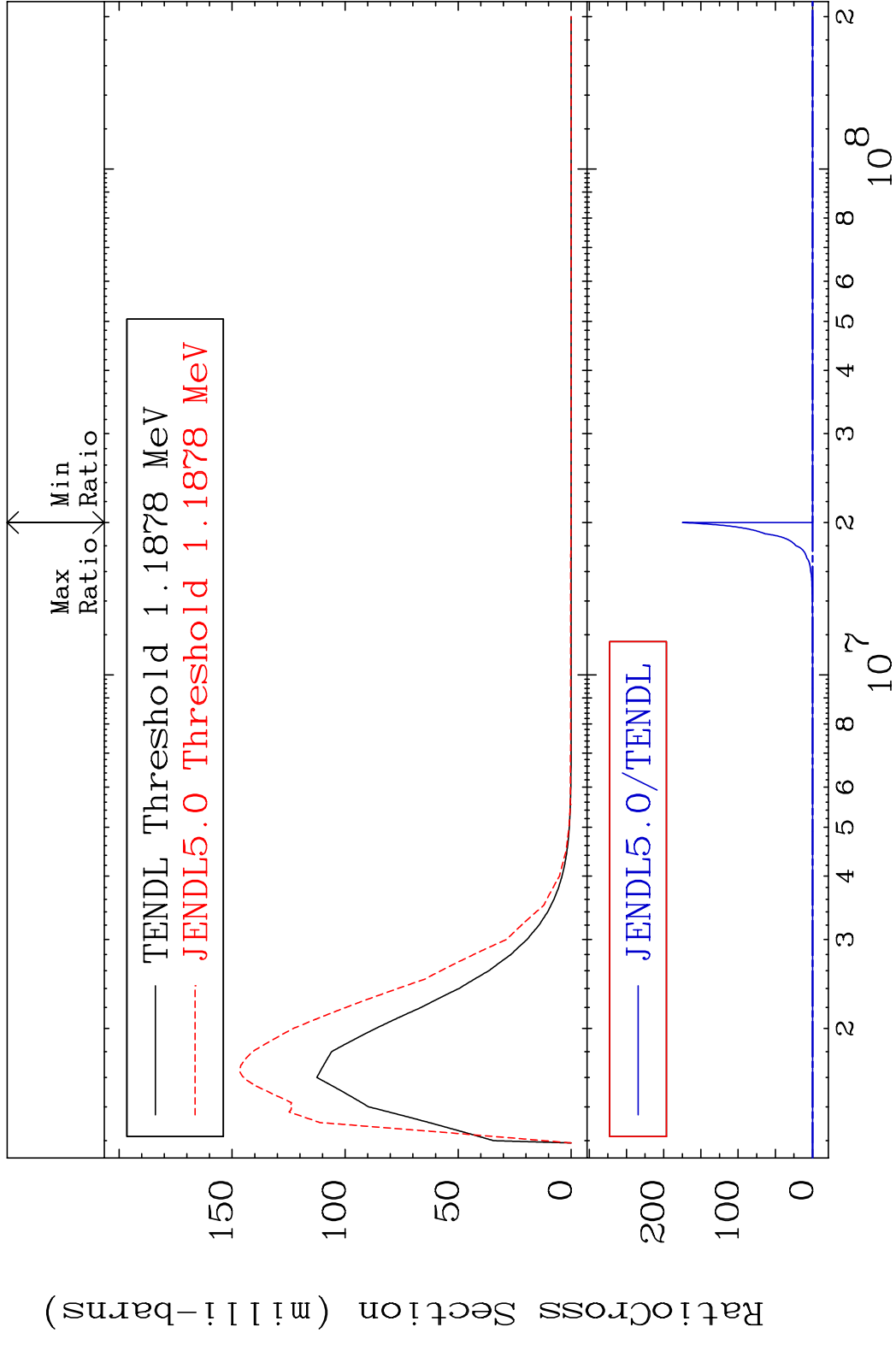
MAT 7219 MT= 58 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 179.5 %



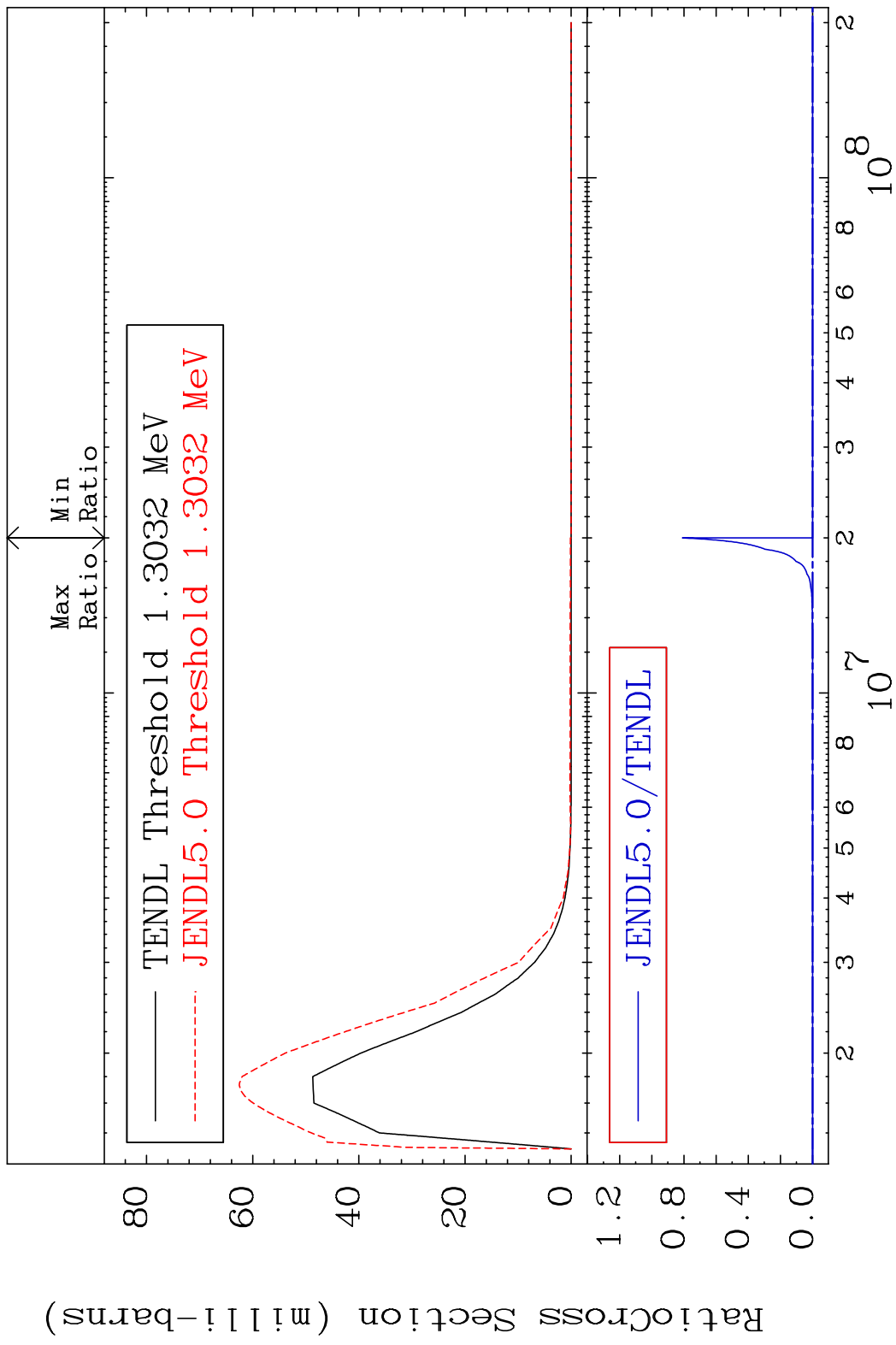
MAT 7219 MT= 59 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 52.29 %



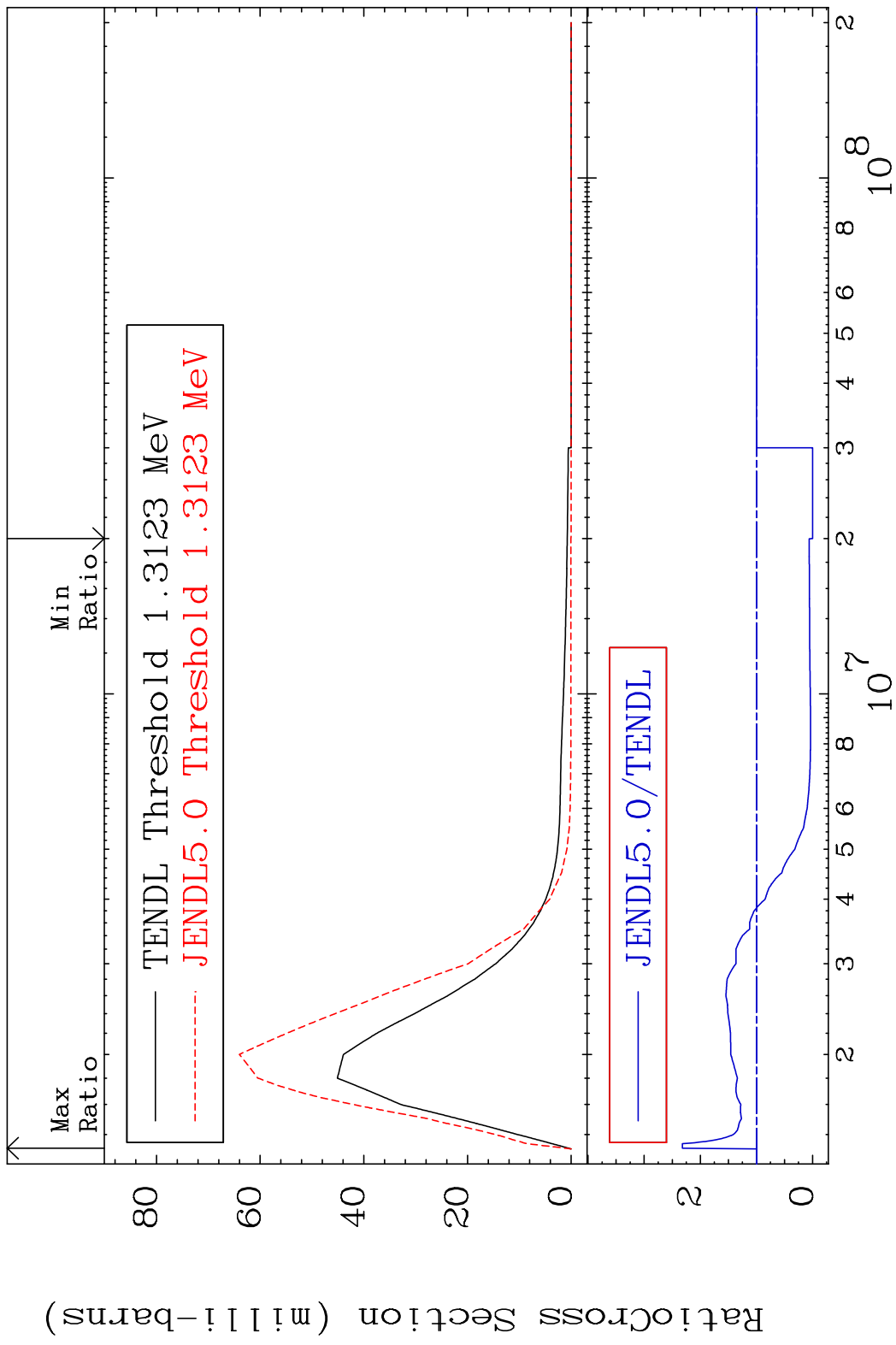
MAT 7219 MT= 60 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



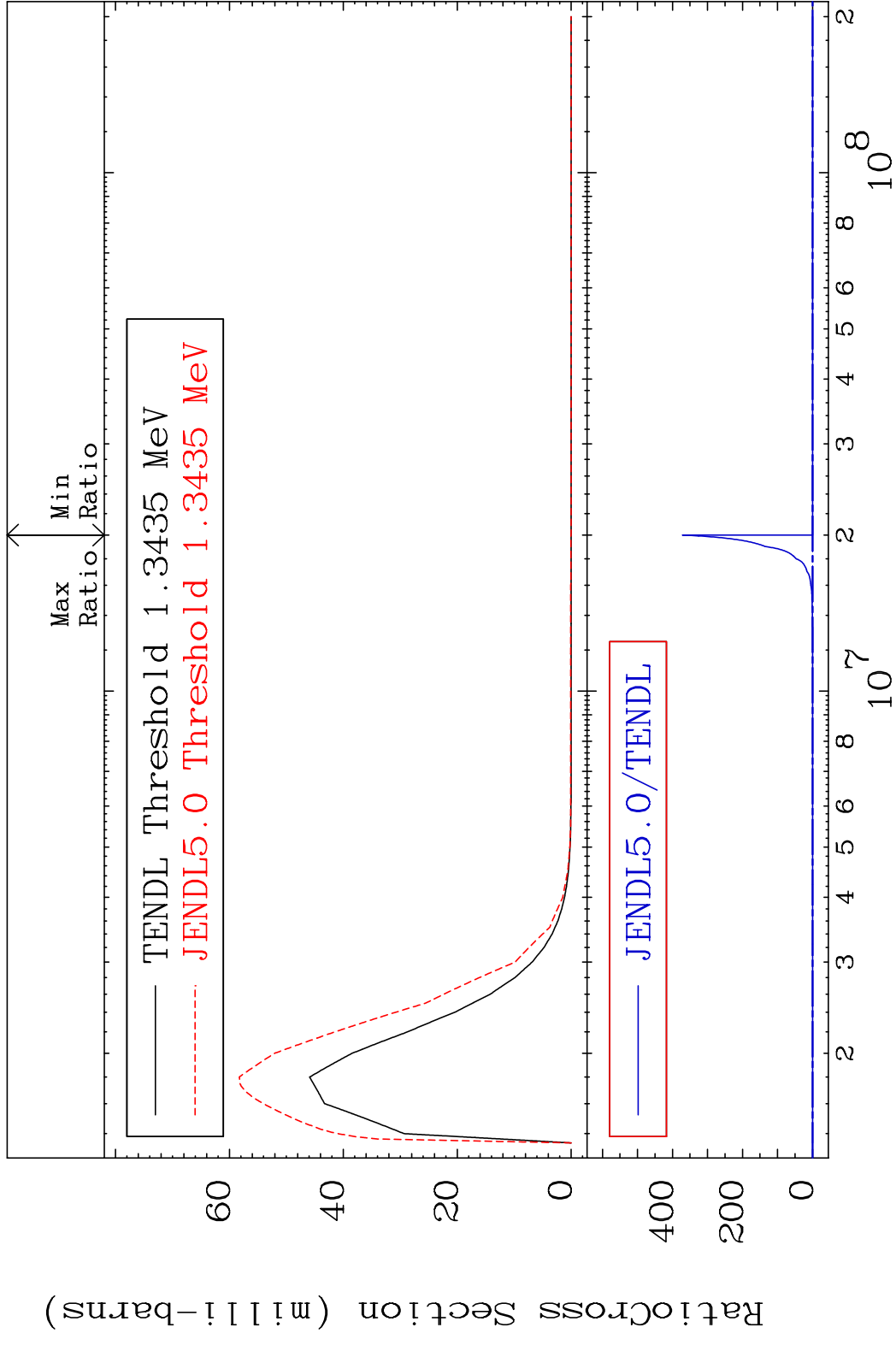
MAT 7219 MT= 61 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



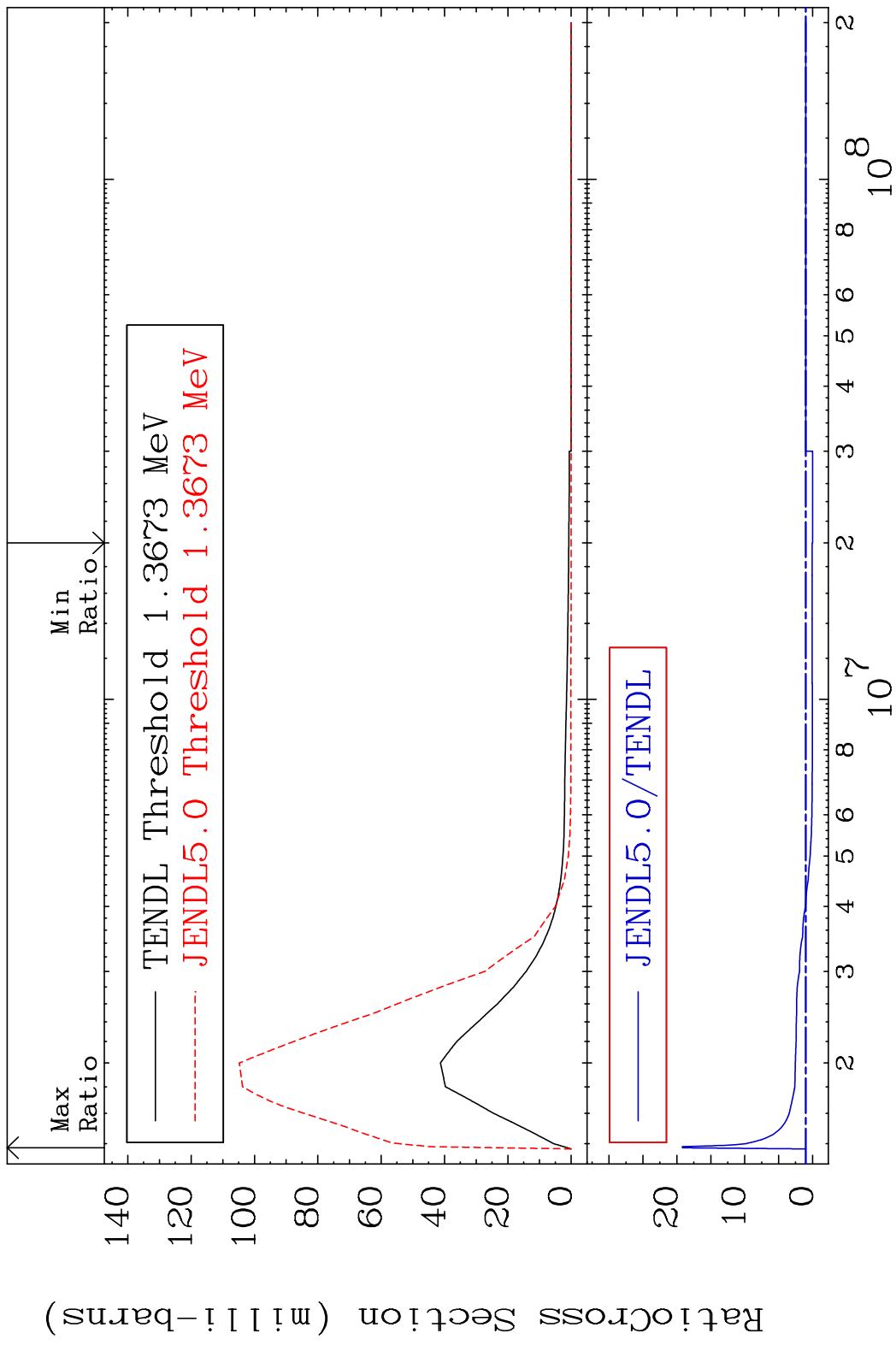
MAT 7219 MT= 62 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 132.0 %



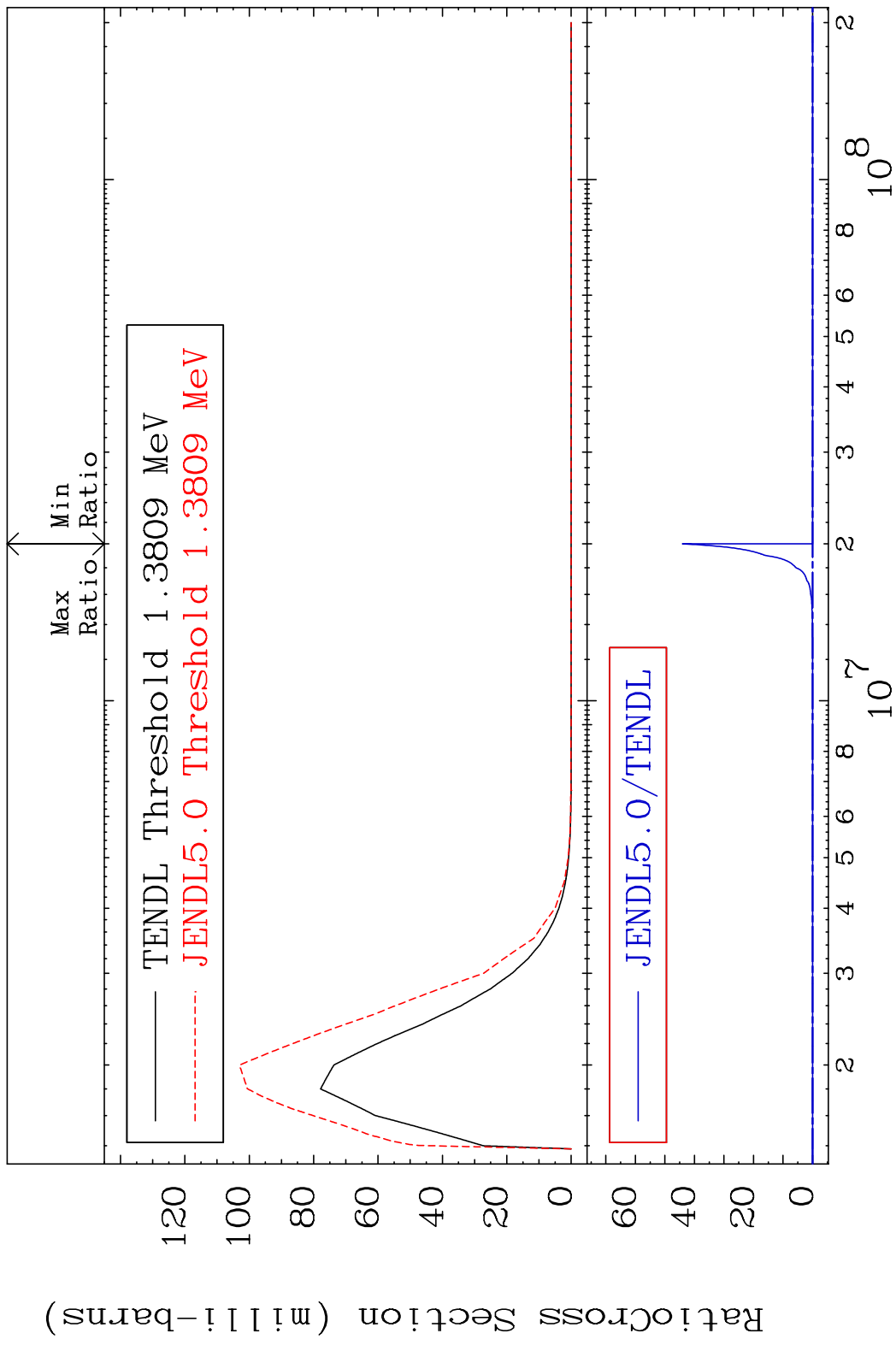
MAT 7219 MT= 63 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



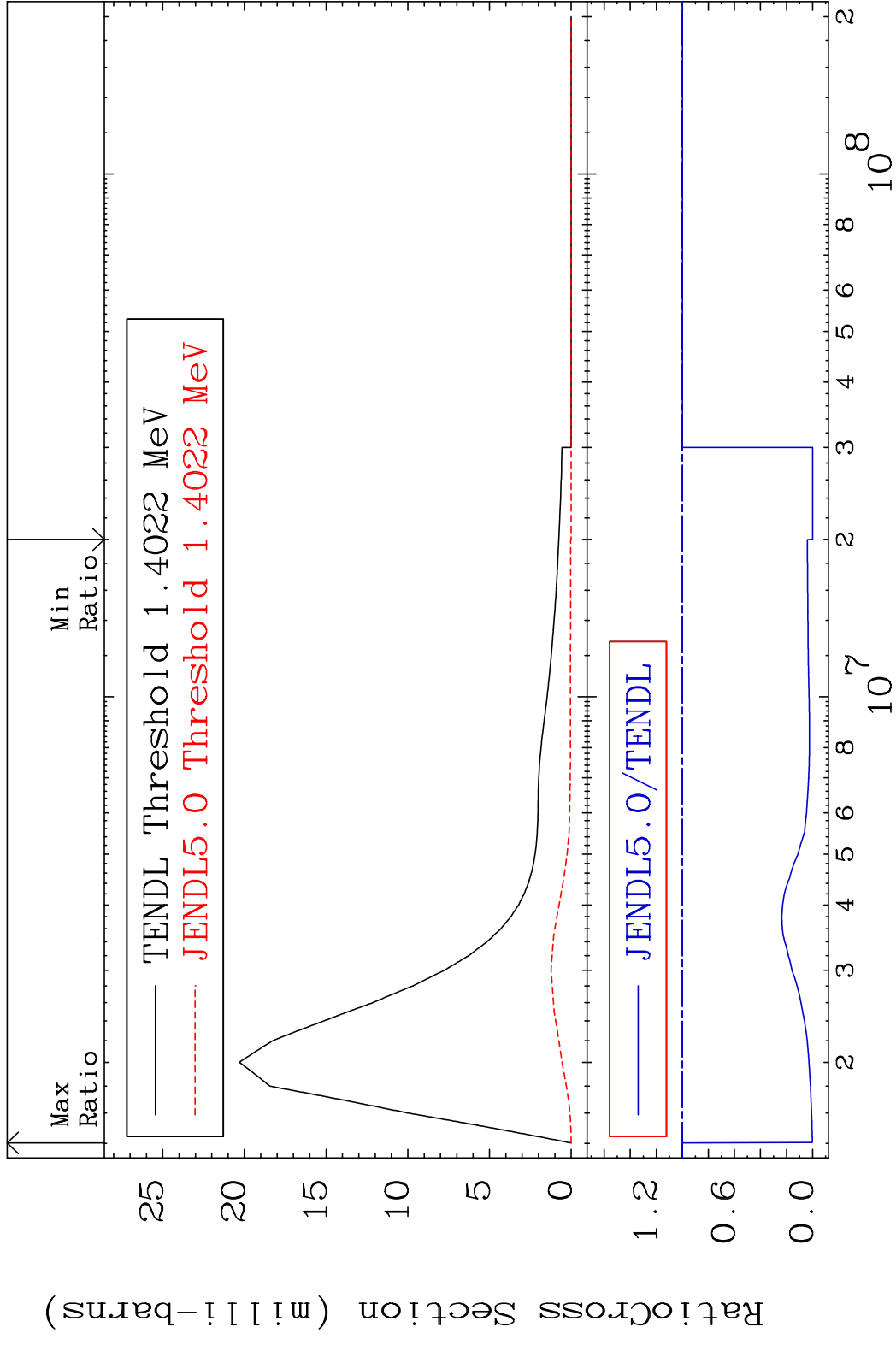
MAT 7219 MT= 64 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 1819. %



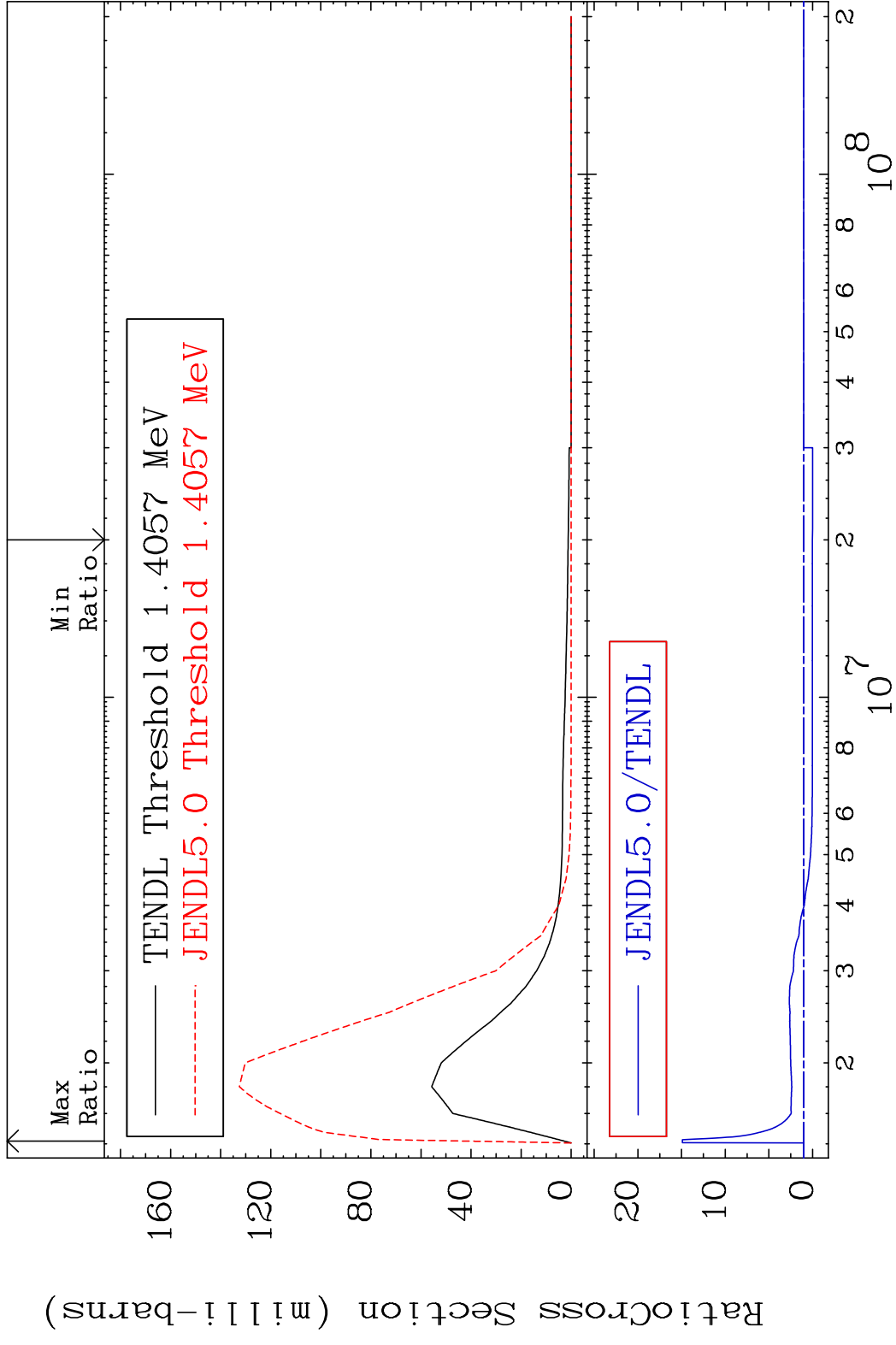
MAT 7219 MT= 65 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



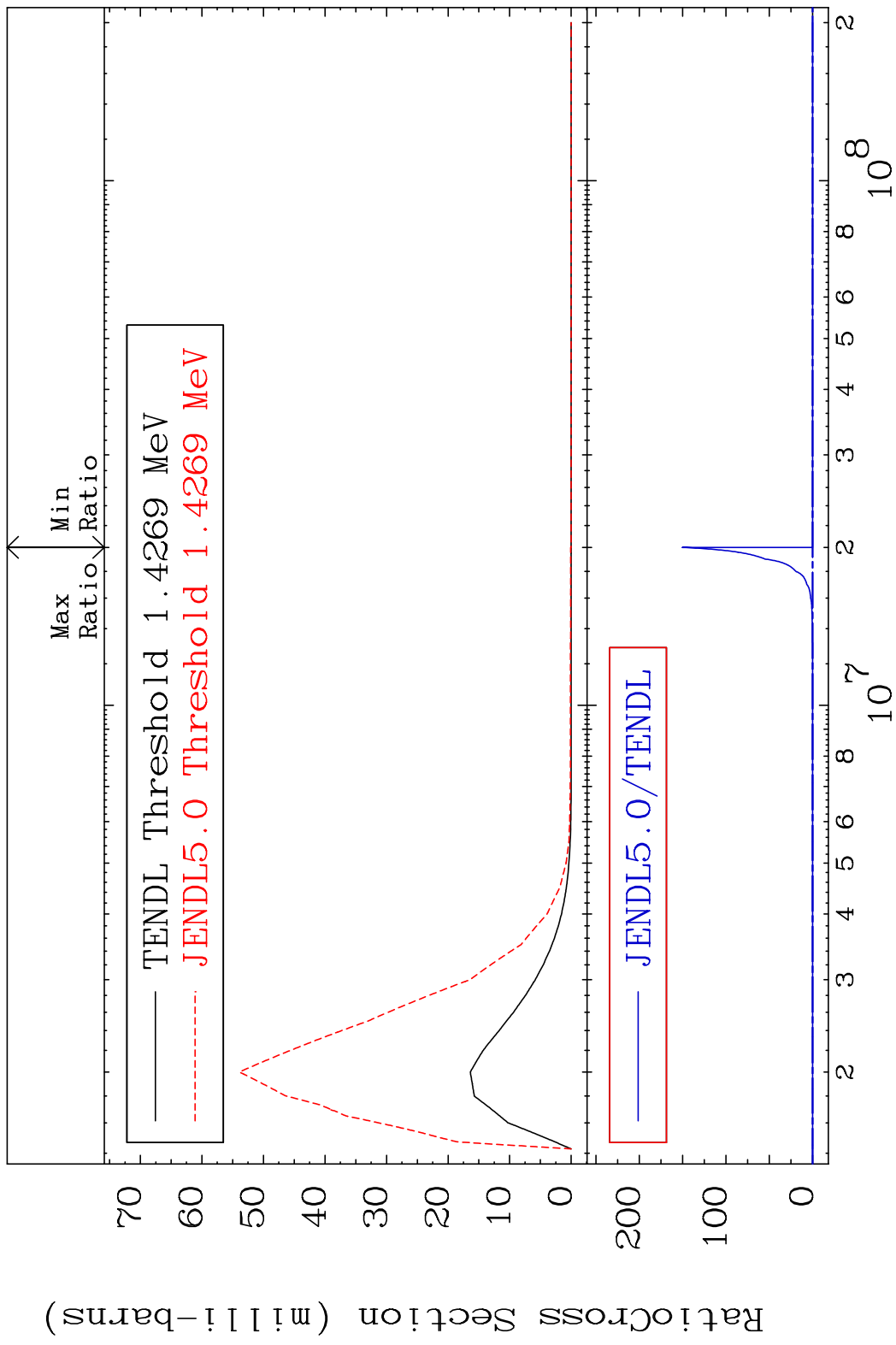
MAT 7219 MT= 66 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 0.000 %



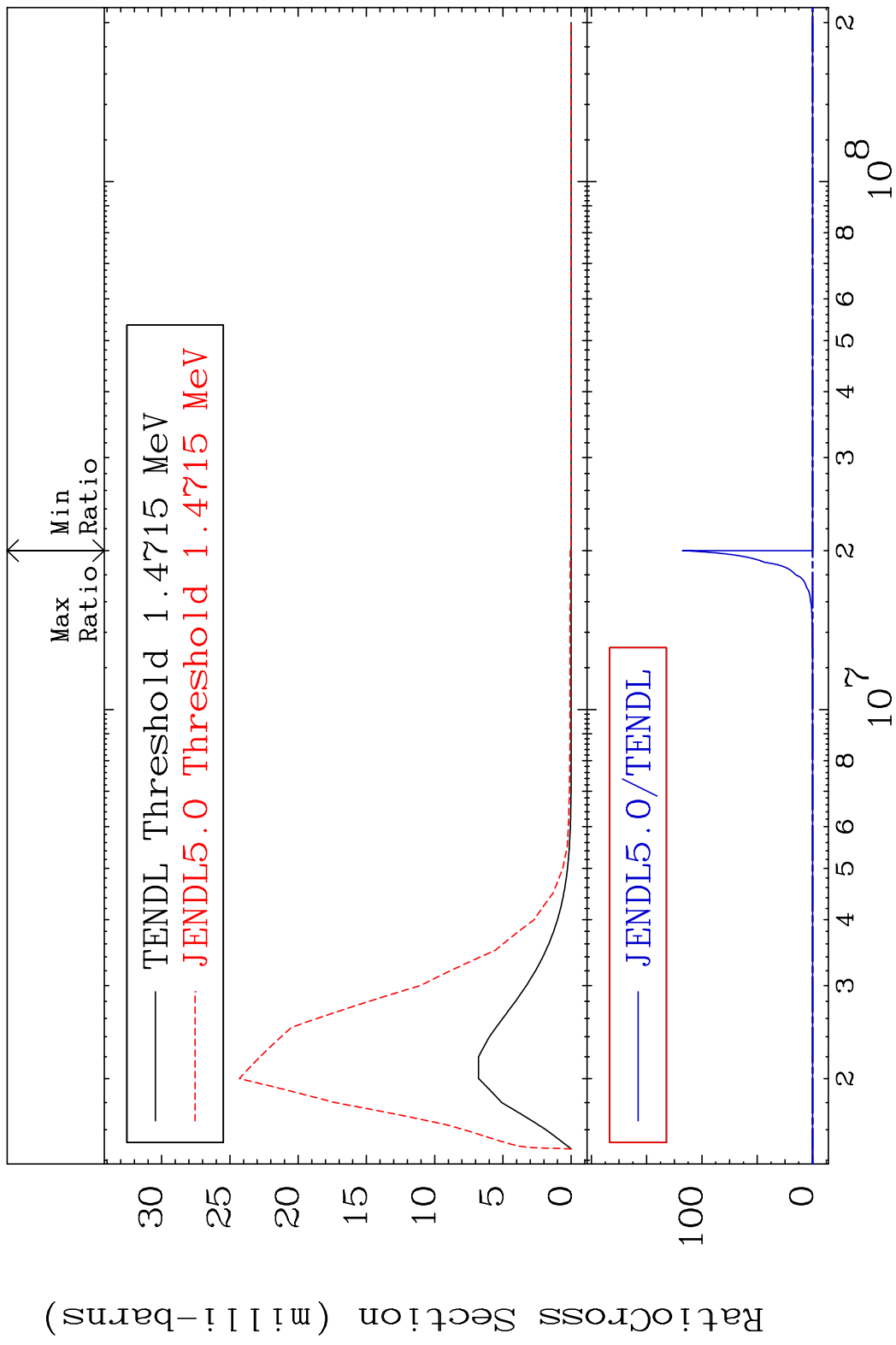
MAT 7219 MT= 67 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 1391. %



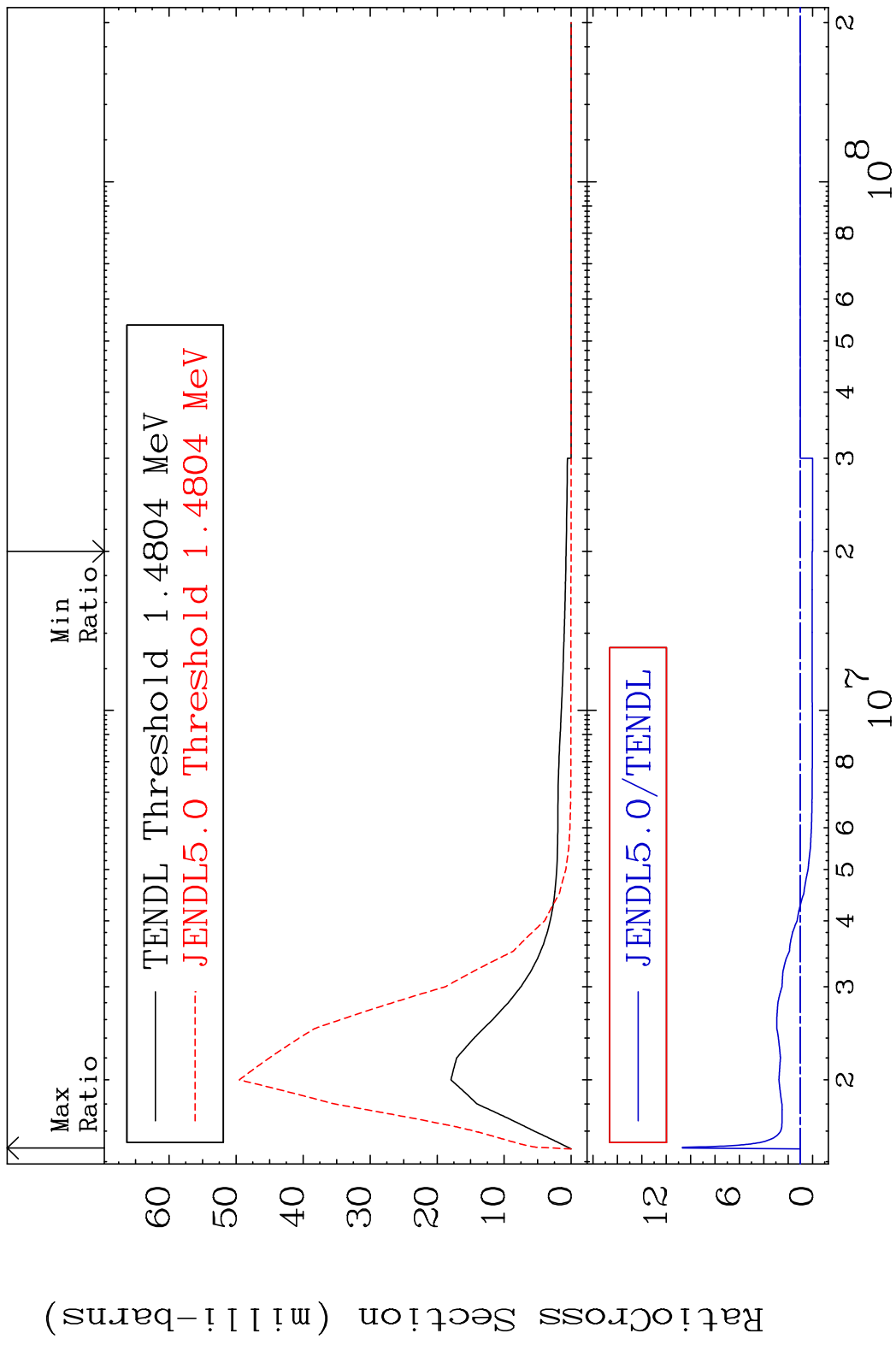
MAT 7219 MT= 68 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



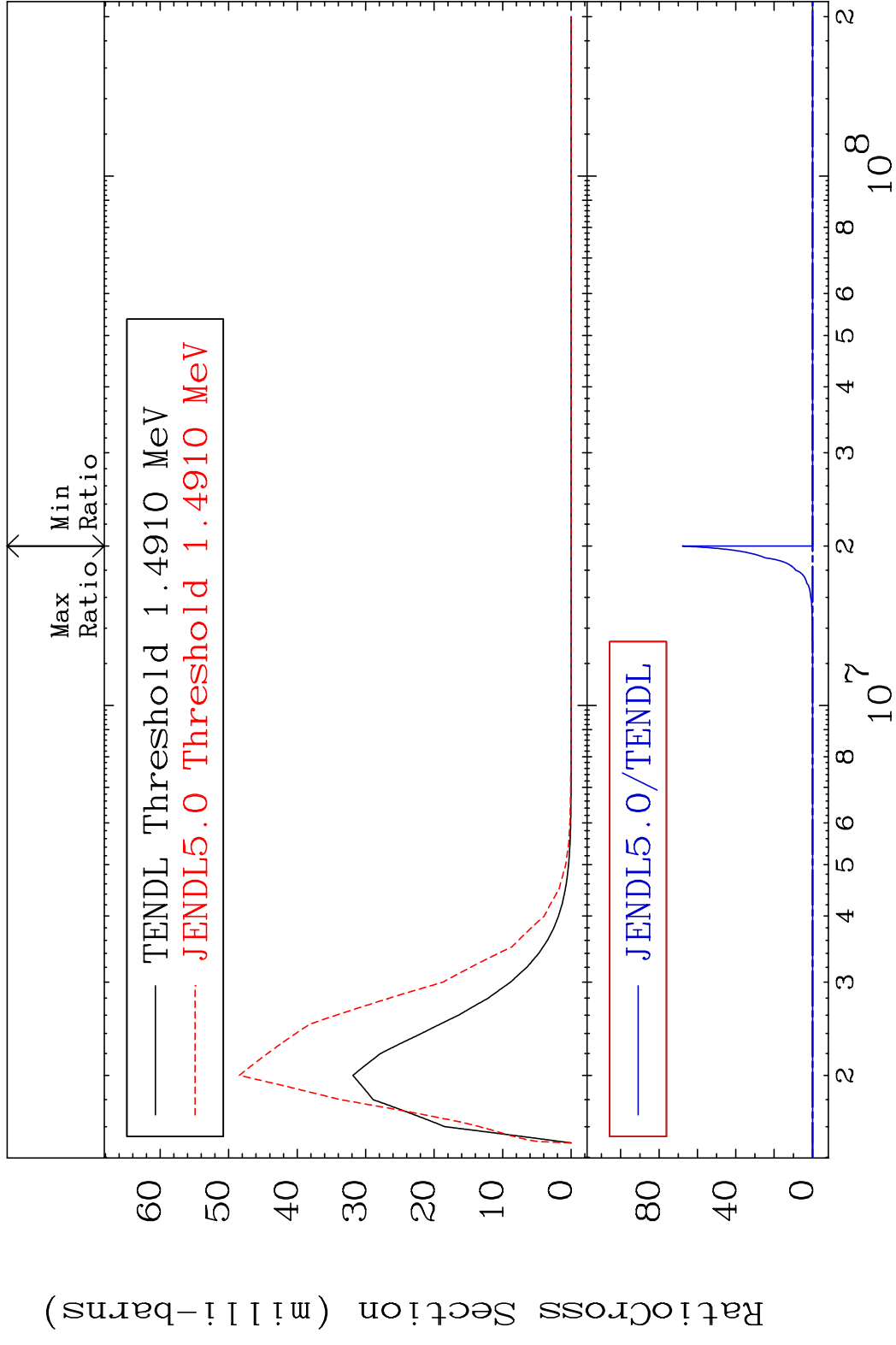
MAT 7219 MT= 69 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



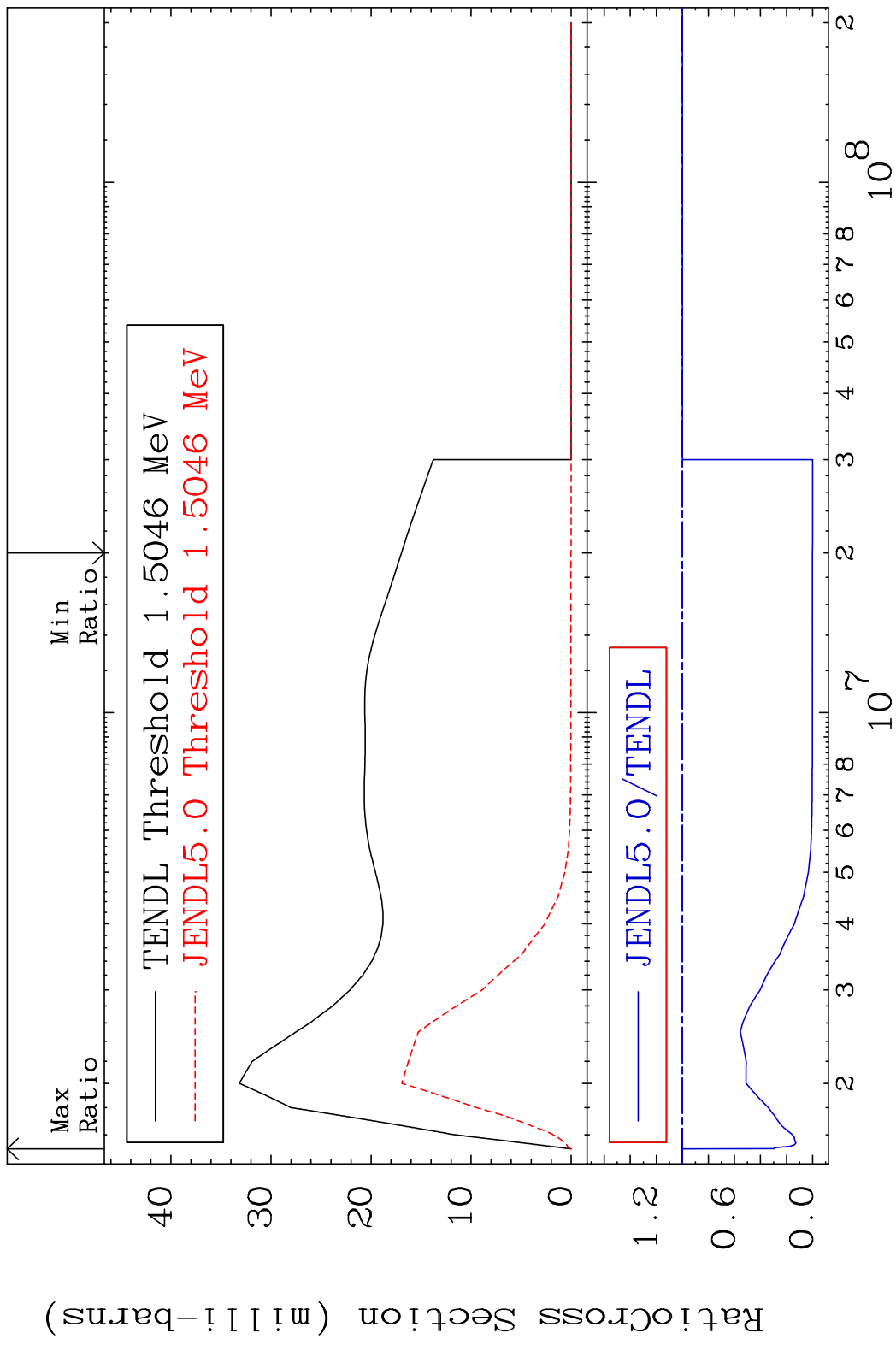
MAT 7219 MT= 70 (n,n') Level 72-Hf-172
 Cross Section -100.0 To 967.8 %



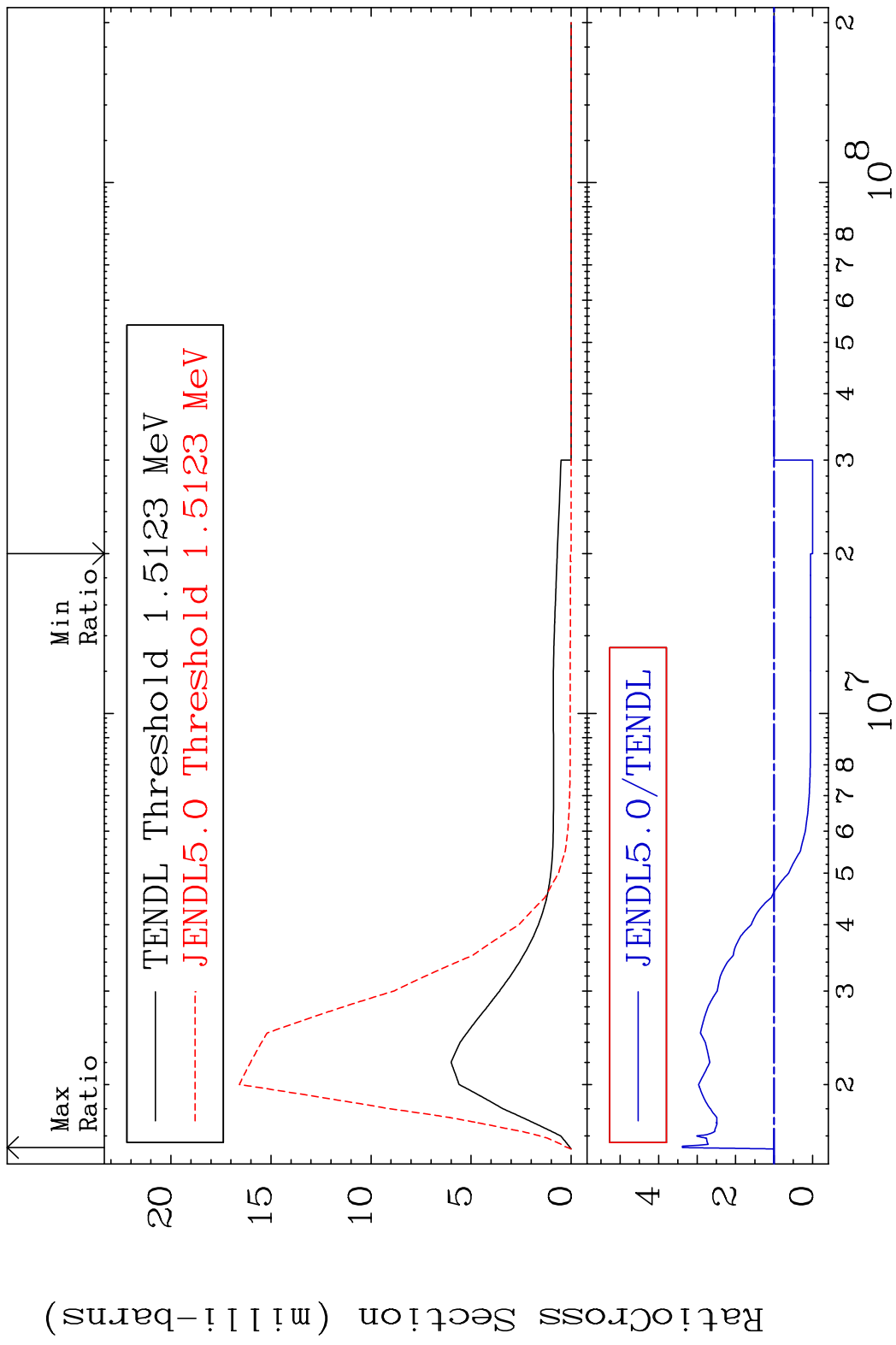
MAT 7219 MT= 71 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



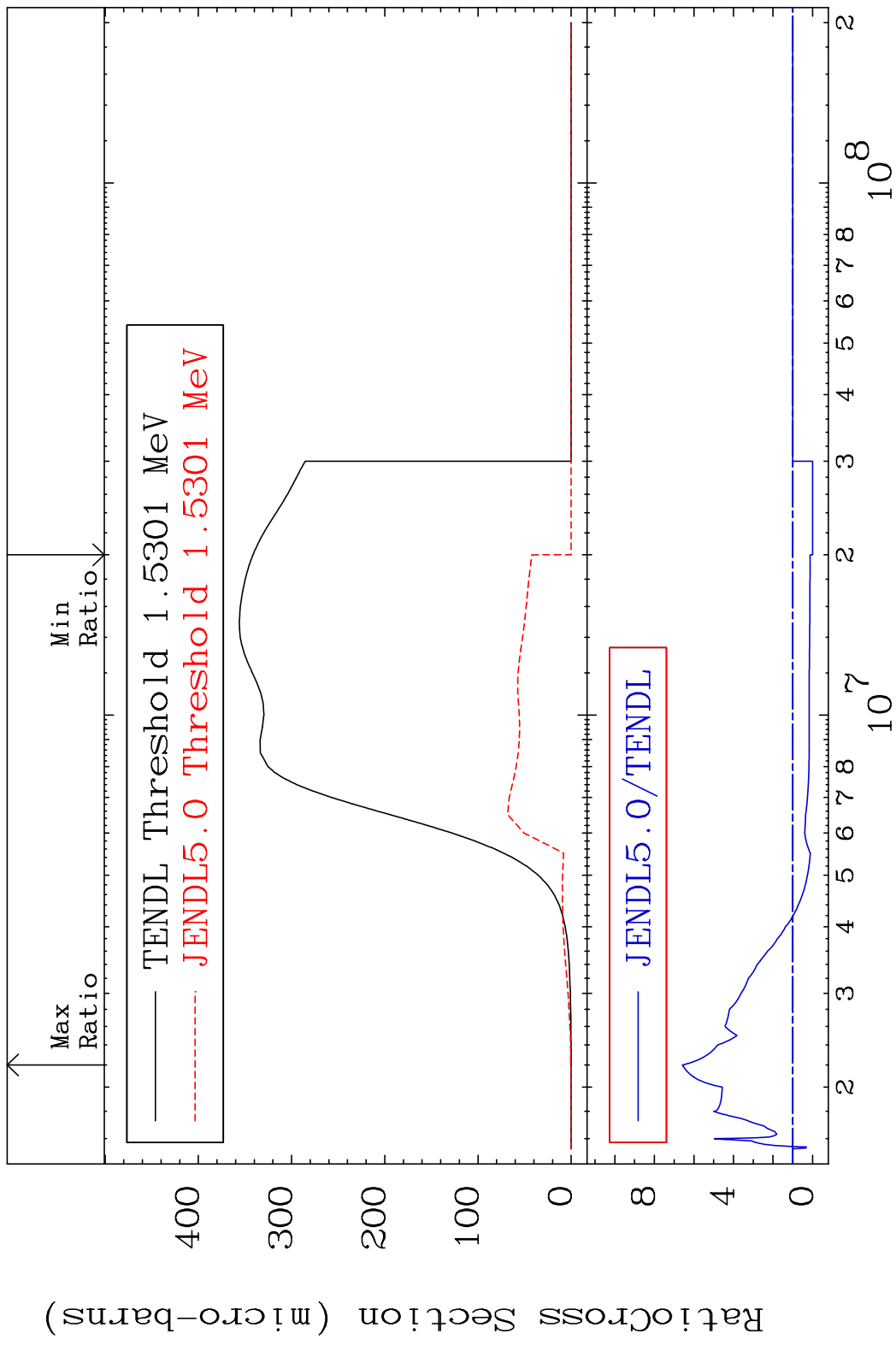
MAT 7219 MT= 72 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 0.000 %



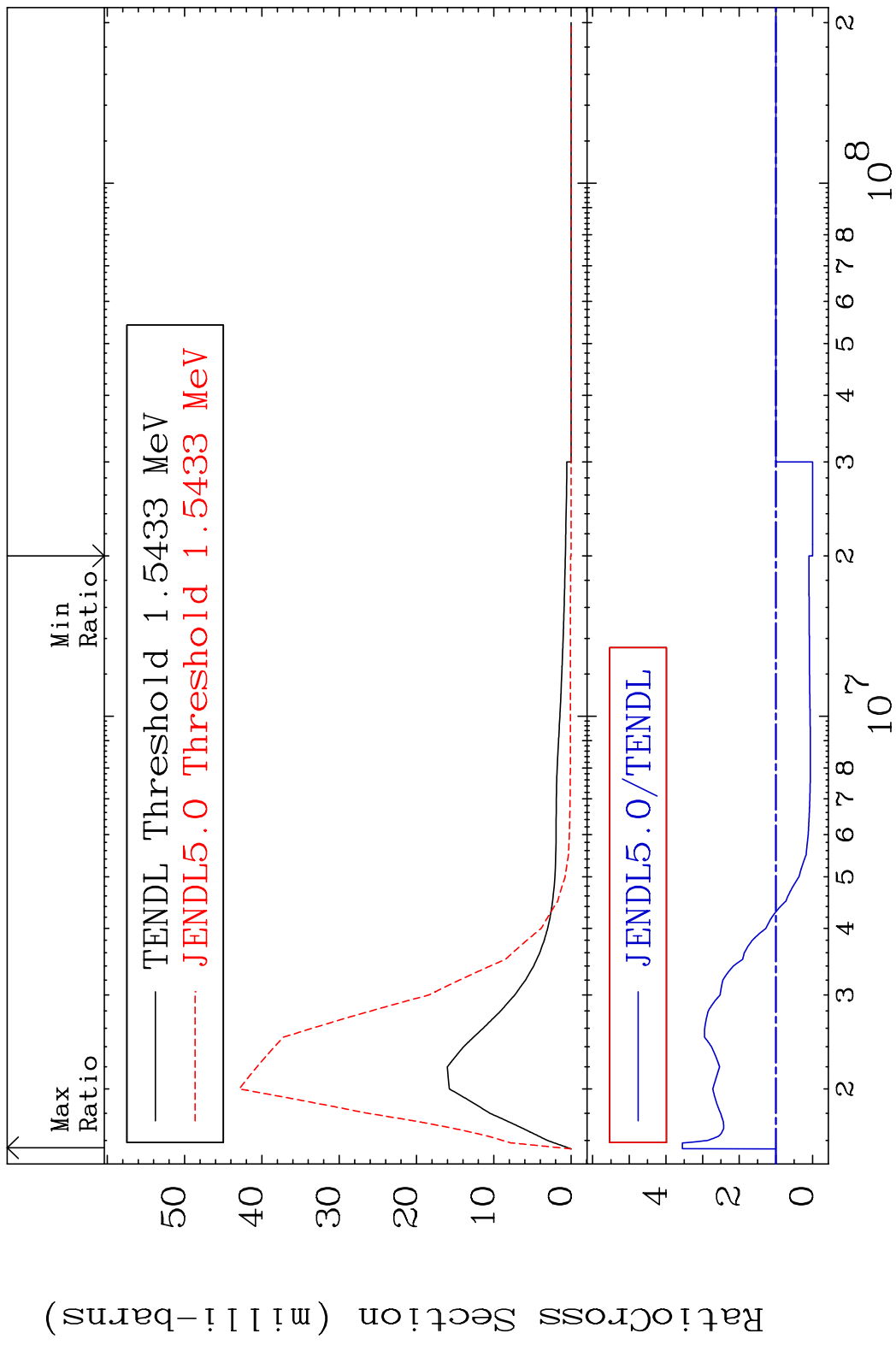
MAT 7219 MT= 73 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 238.3 %



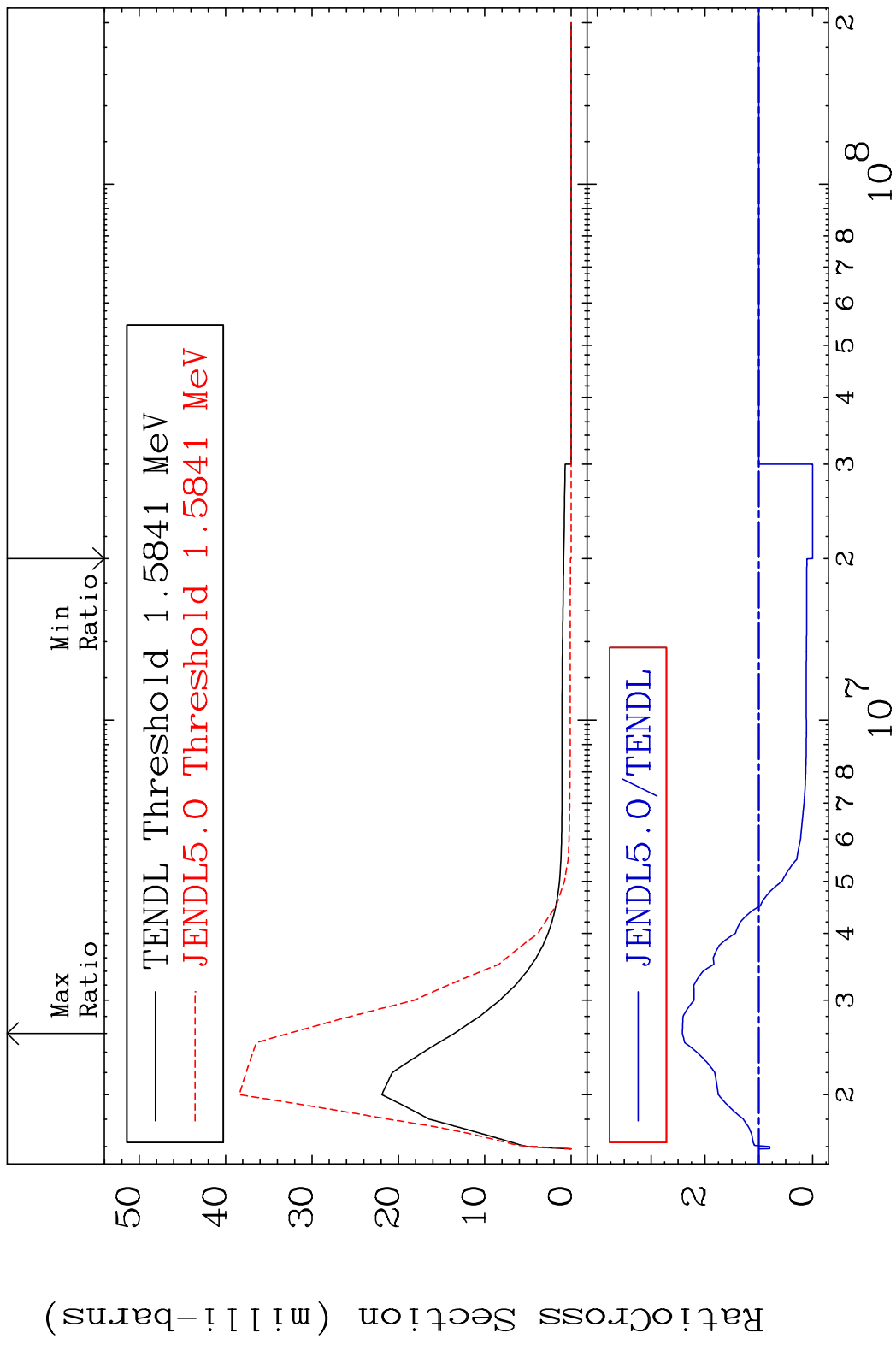
MAT 7219 MT= 74 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 558.5 %



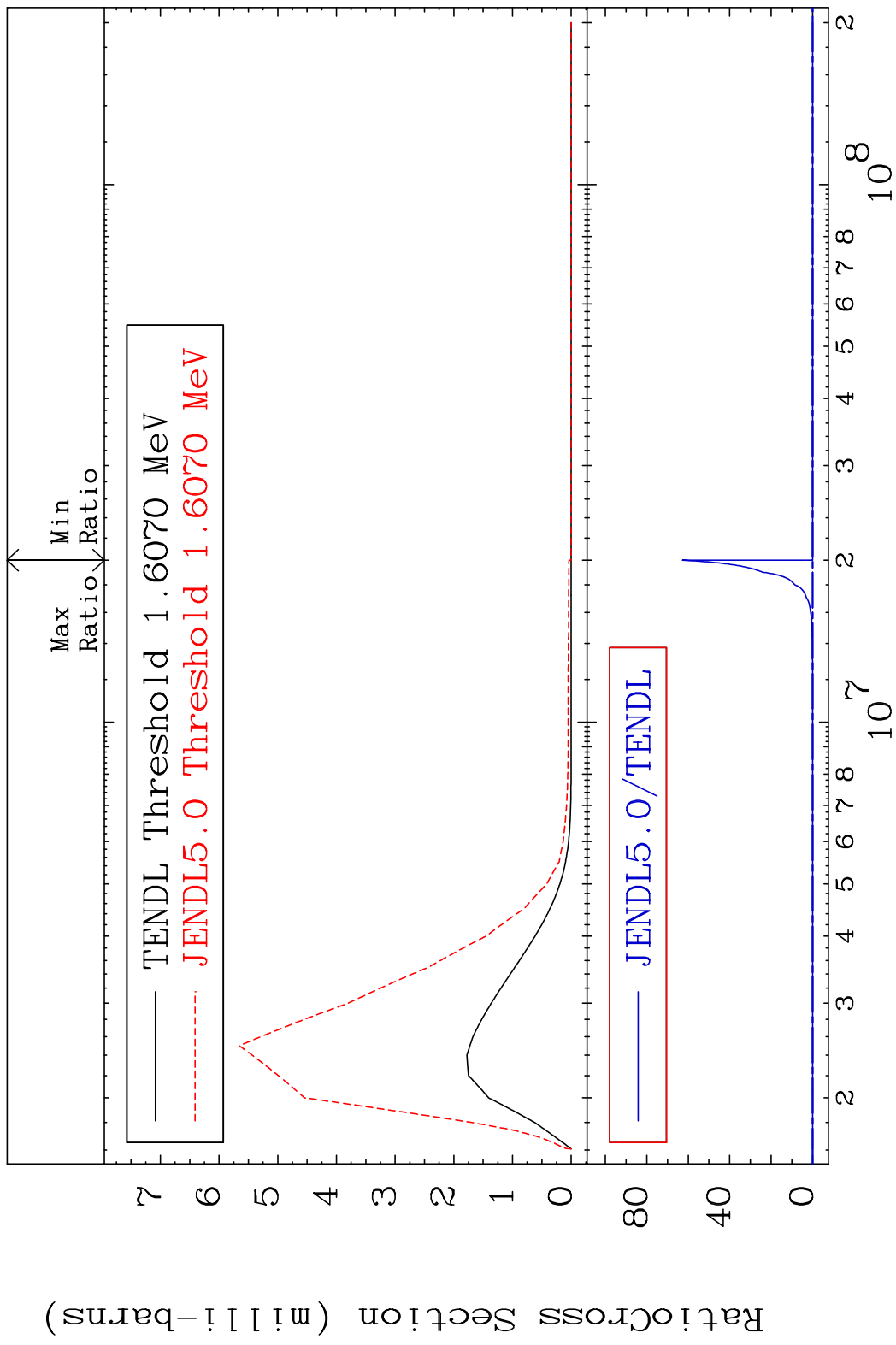
MAT 7219 MT= 75 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 255.2 %



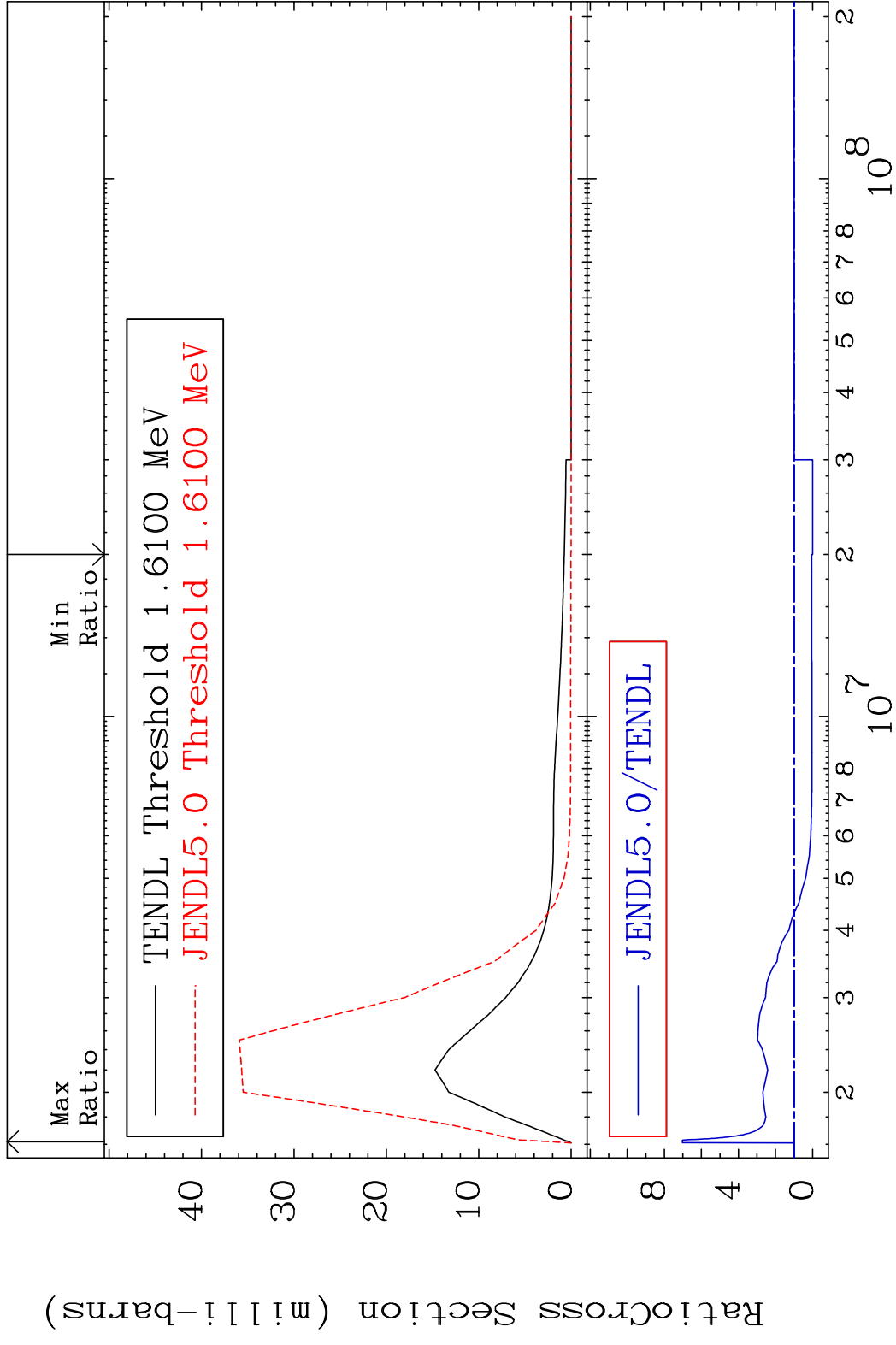
MAT 7219 MT= 76 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 142.1 %



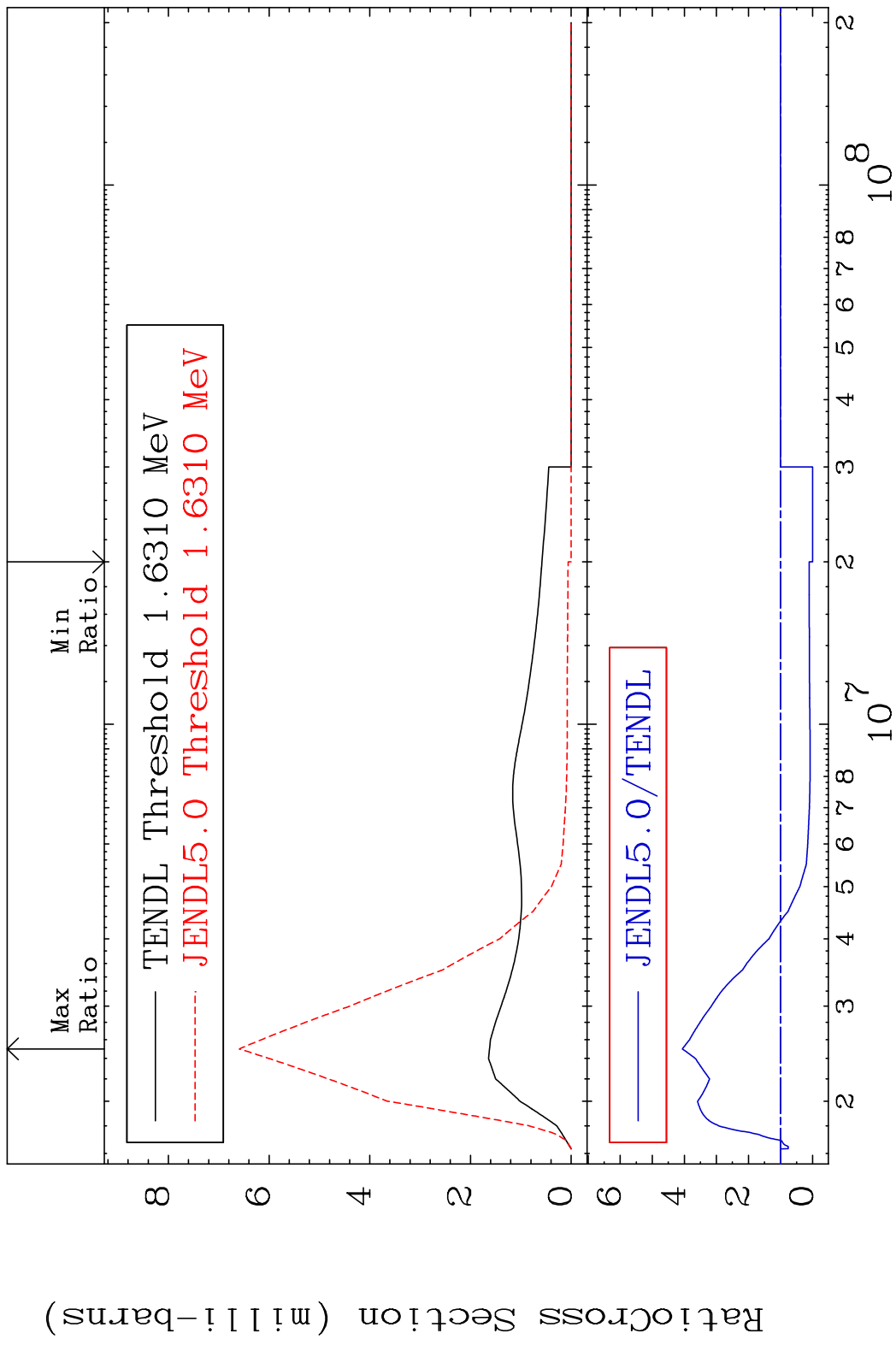
MAT 7219 MT= 77 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



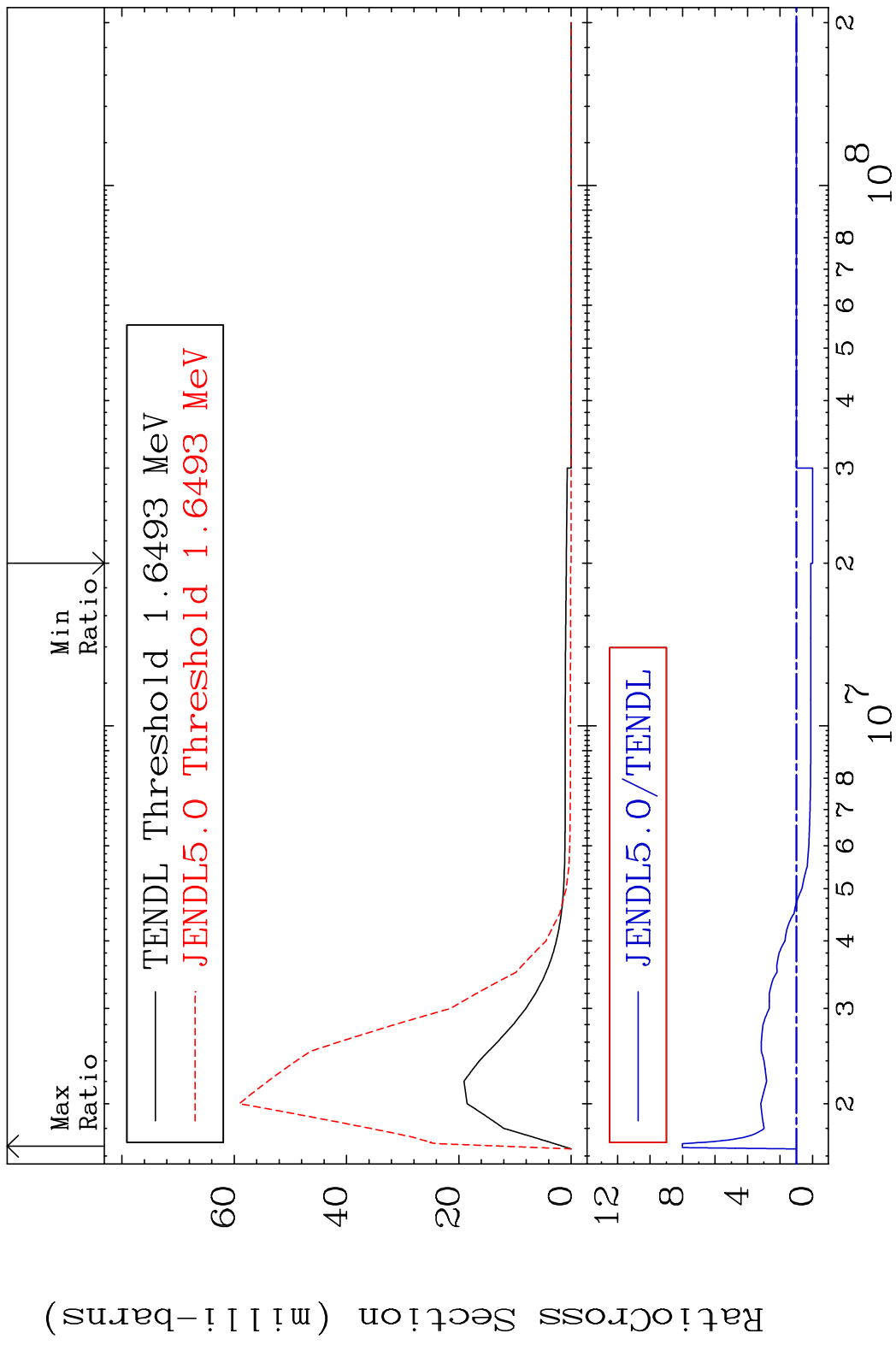
MAT 7219 MT= 78 (n,n') Level 72-Hf-172
 Cross Section -100.0 To 602.8 %



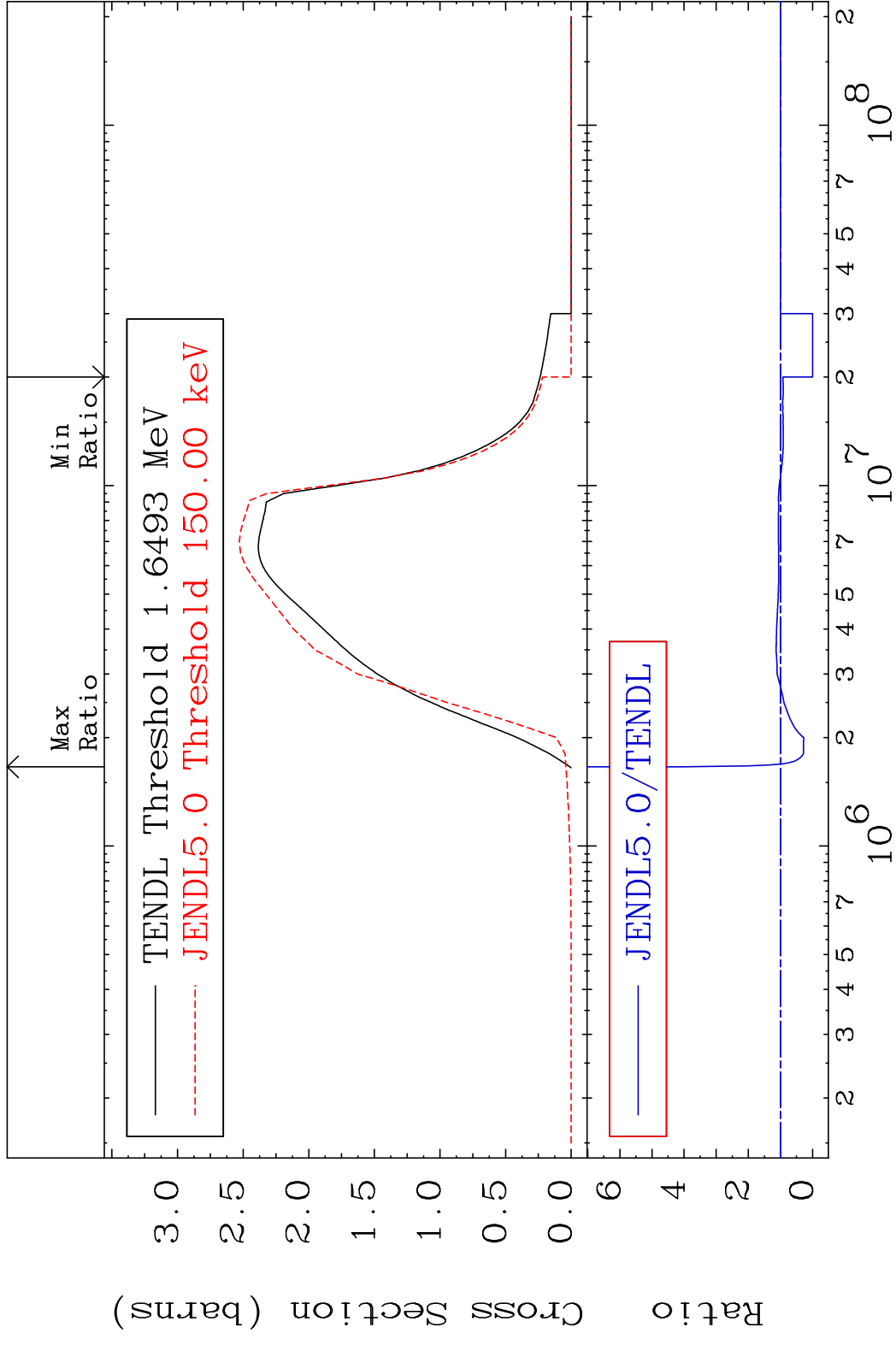
MAT 7219 MT= 79 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 306.2 %



MAT 7219 MT= 80 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 701.4 %



MAT 7219 (n, n') Continuum 72-Hf-172
 Cross Section -100.0 To 305.4 %

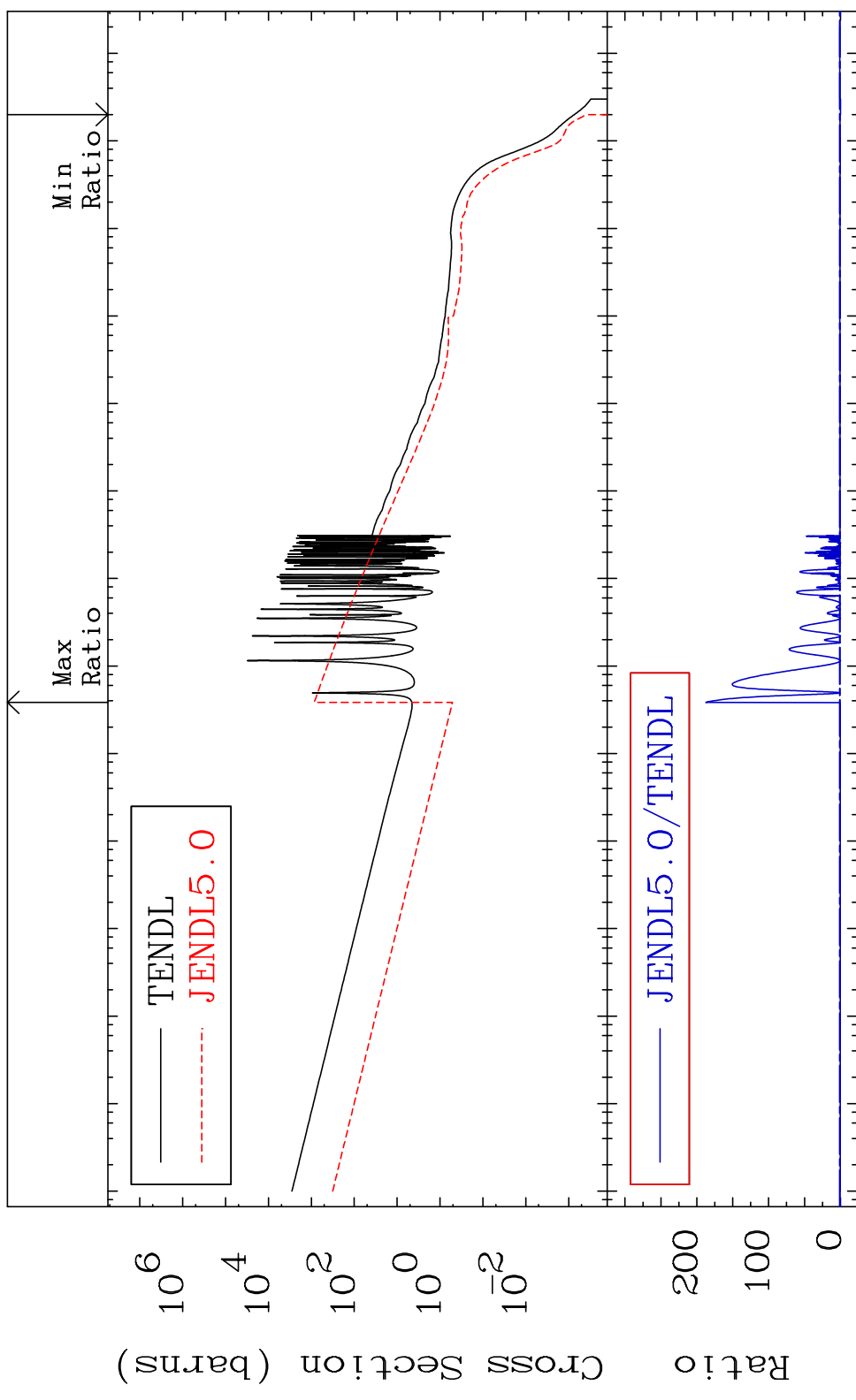


MAT 7219

(n, γ)

72-Hf-172

Cross Section -100.0 To 9999. %

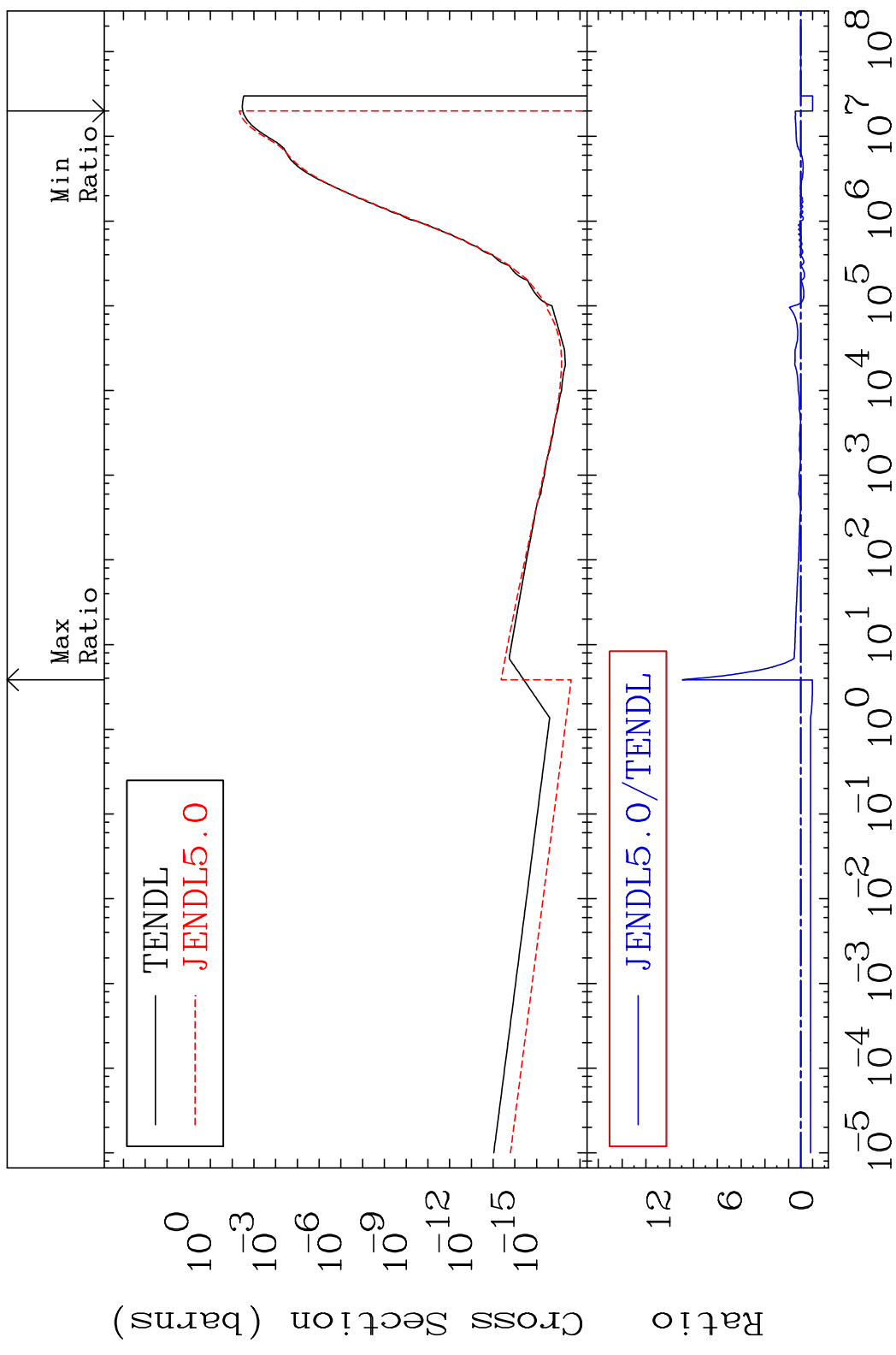


MAT 7219

(n,p)

72-Hf-172

Cross Section -100.0 To 994.0 %

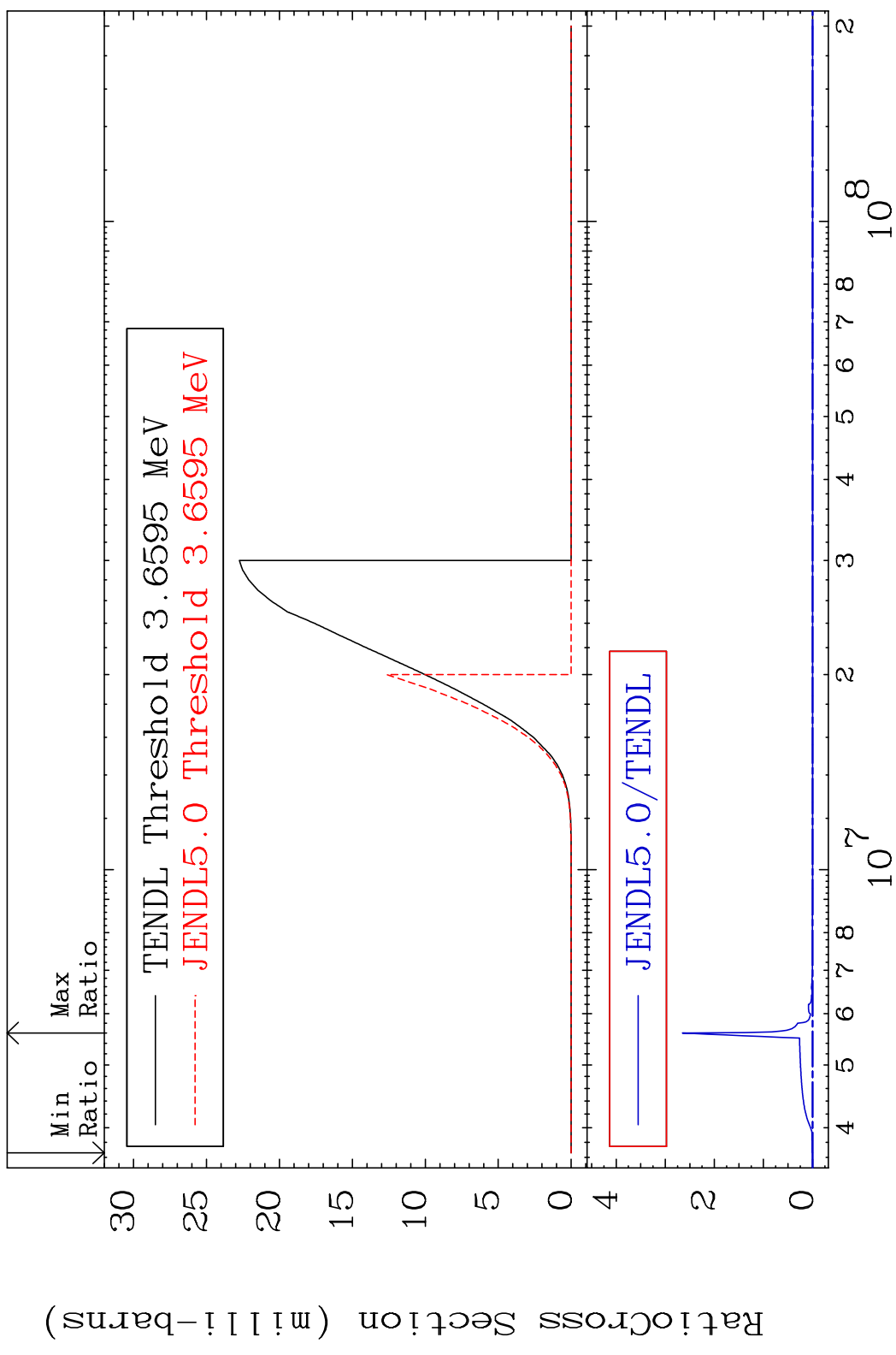


MAT 7219

(n,d)

72-Hf-172

Cross Section -100.0 To 9999. %

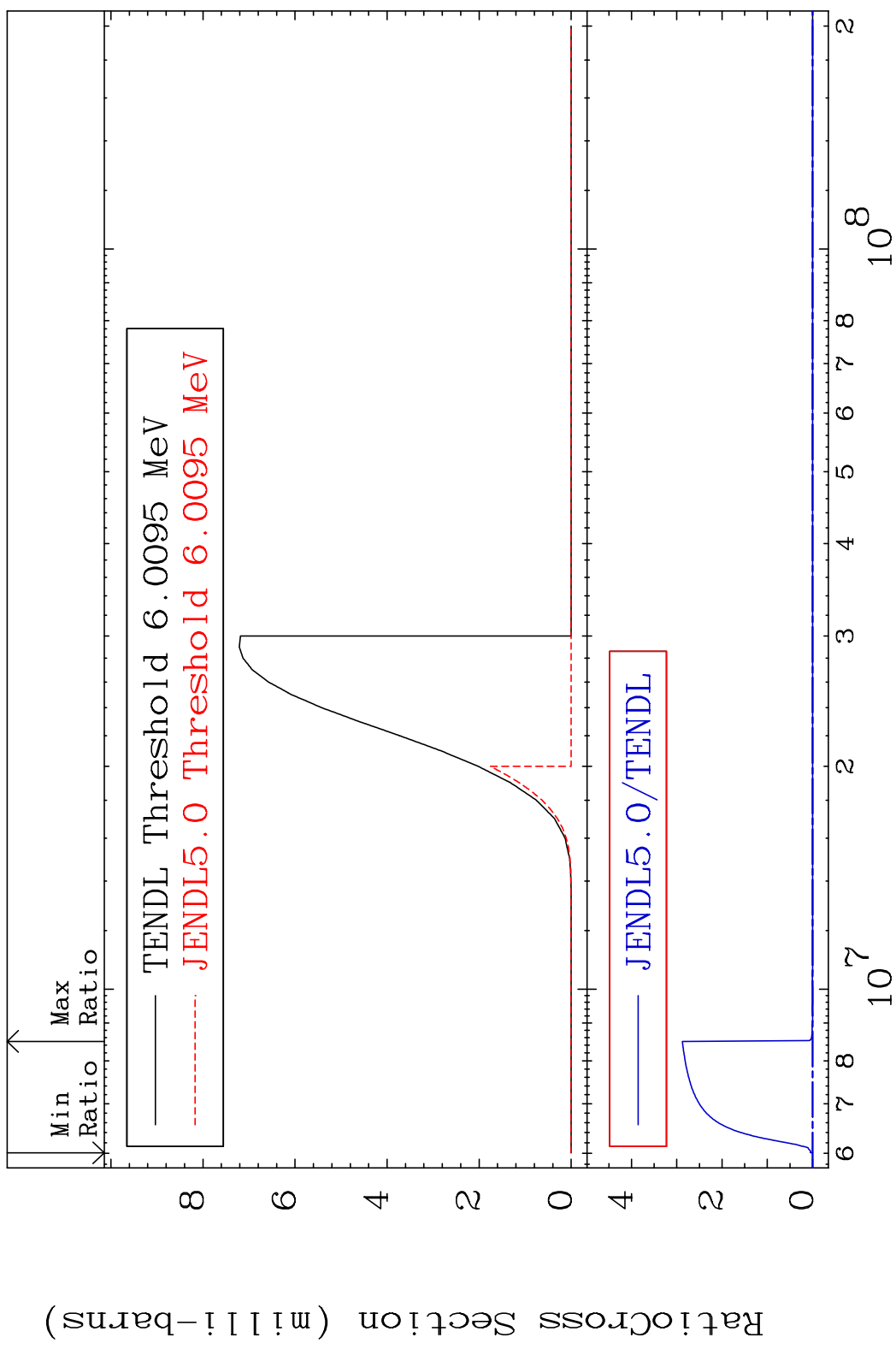


MAT 7219

(n, t)

72-Hf-172

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

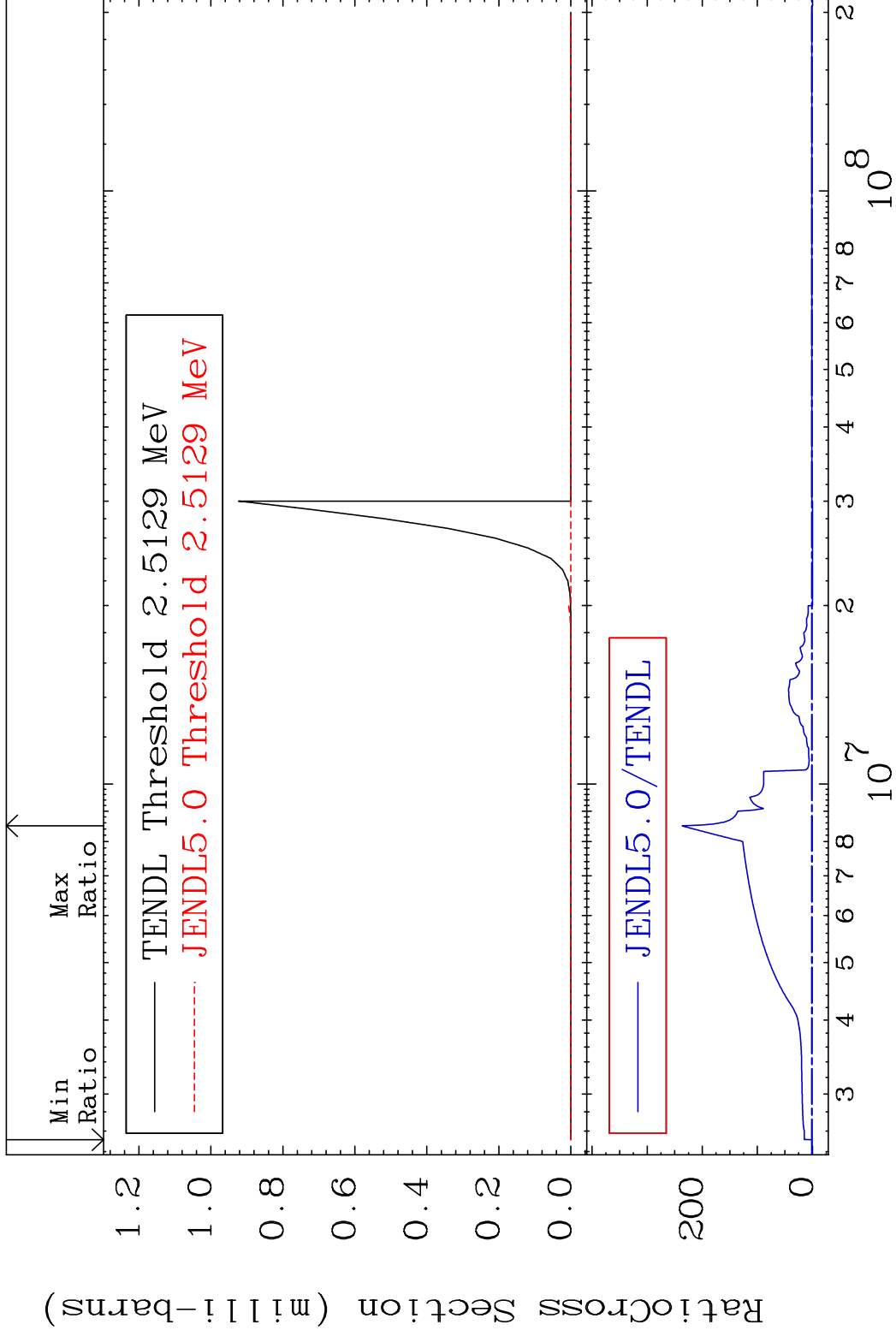
72-Hf-172

MAT 7219

(n, He-3)

72-Hf-172

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

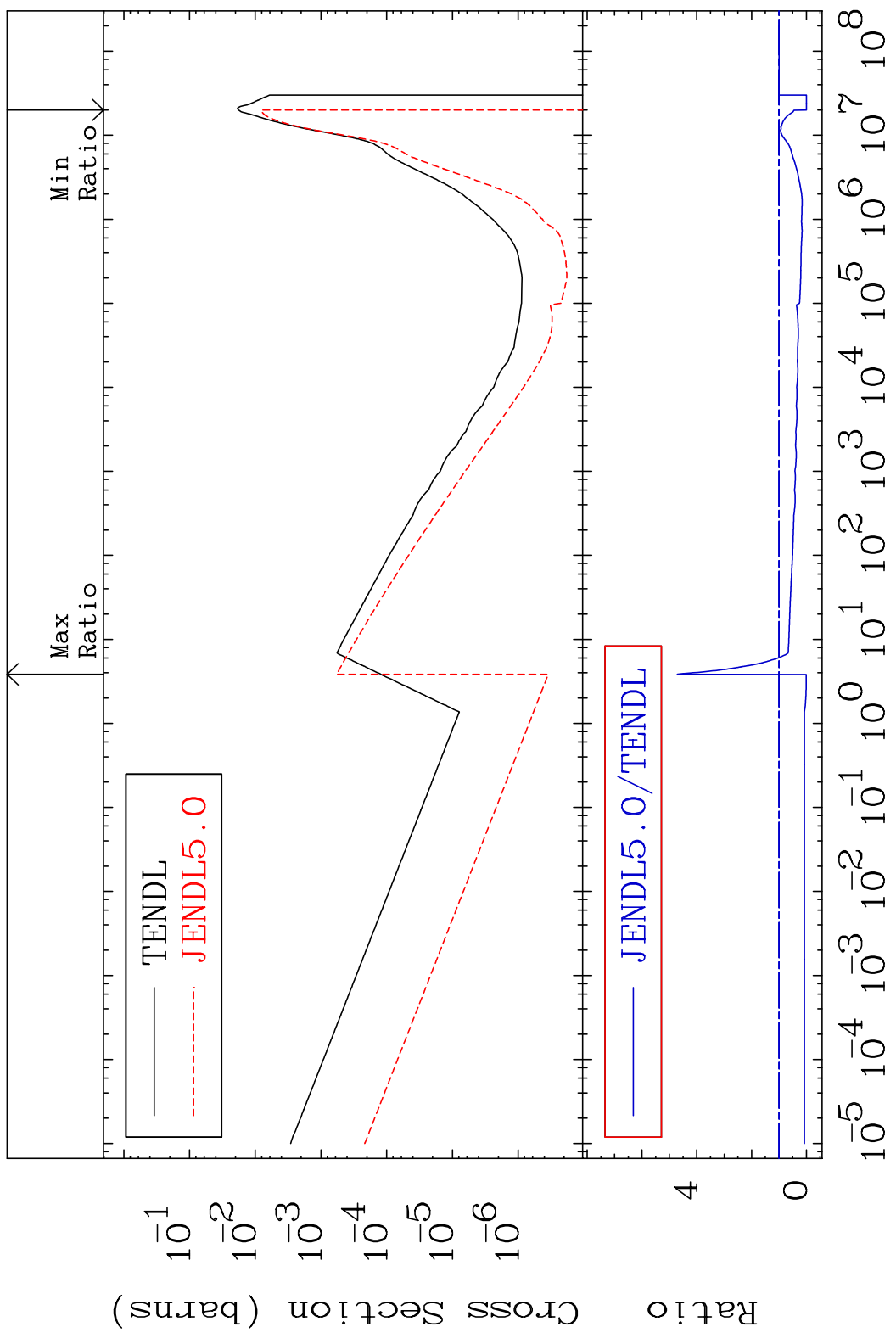
72-Hf-172

MAT 7219

(n, α)

72-Hf-172

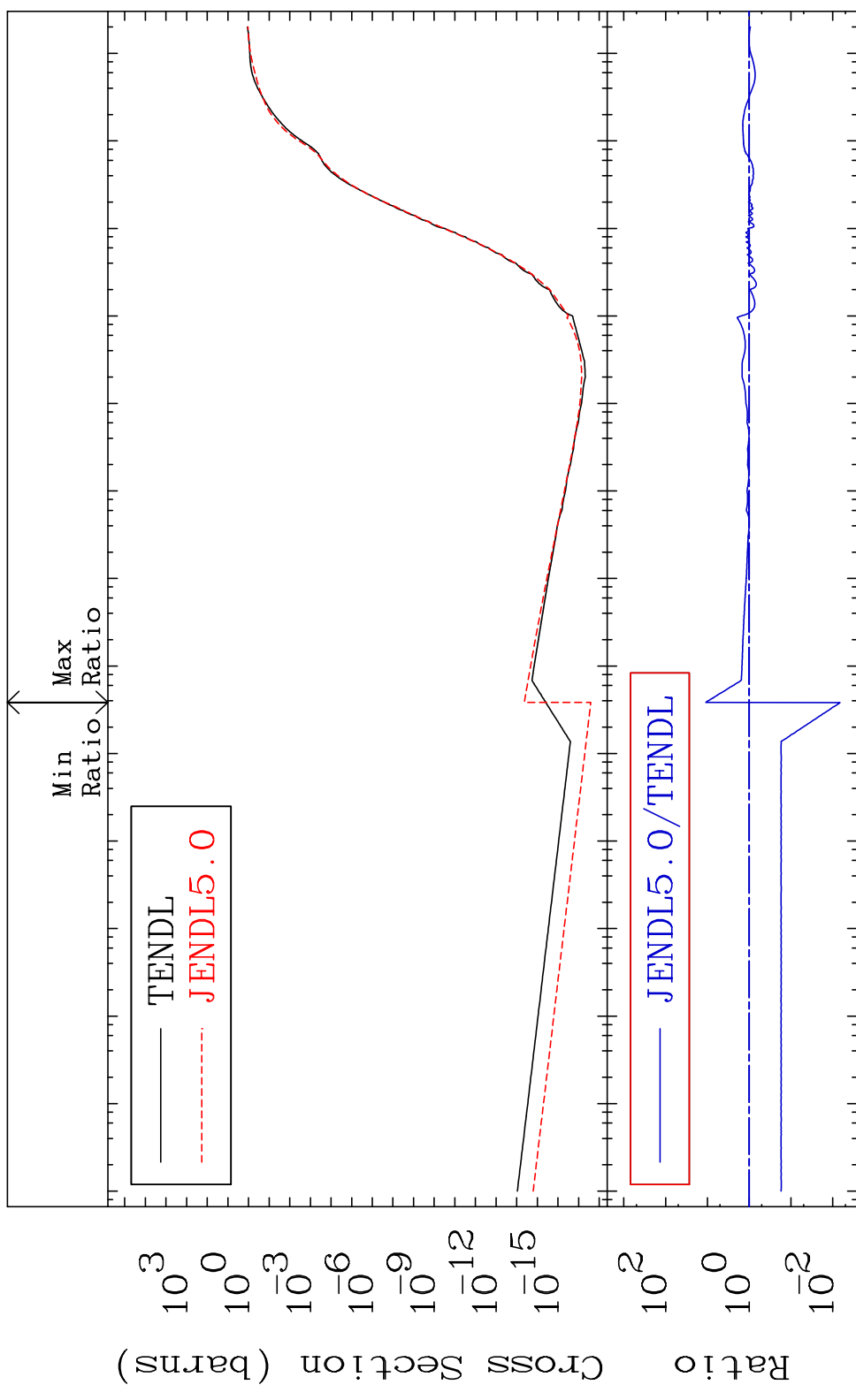
Cross Section -100.0 To 371.5 %



MAT 7219

Hydrogen Production
Cross Section -99.34 To 994.0 %

72-Hf-172

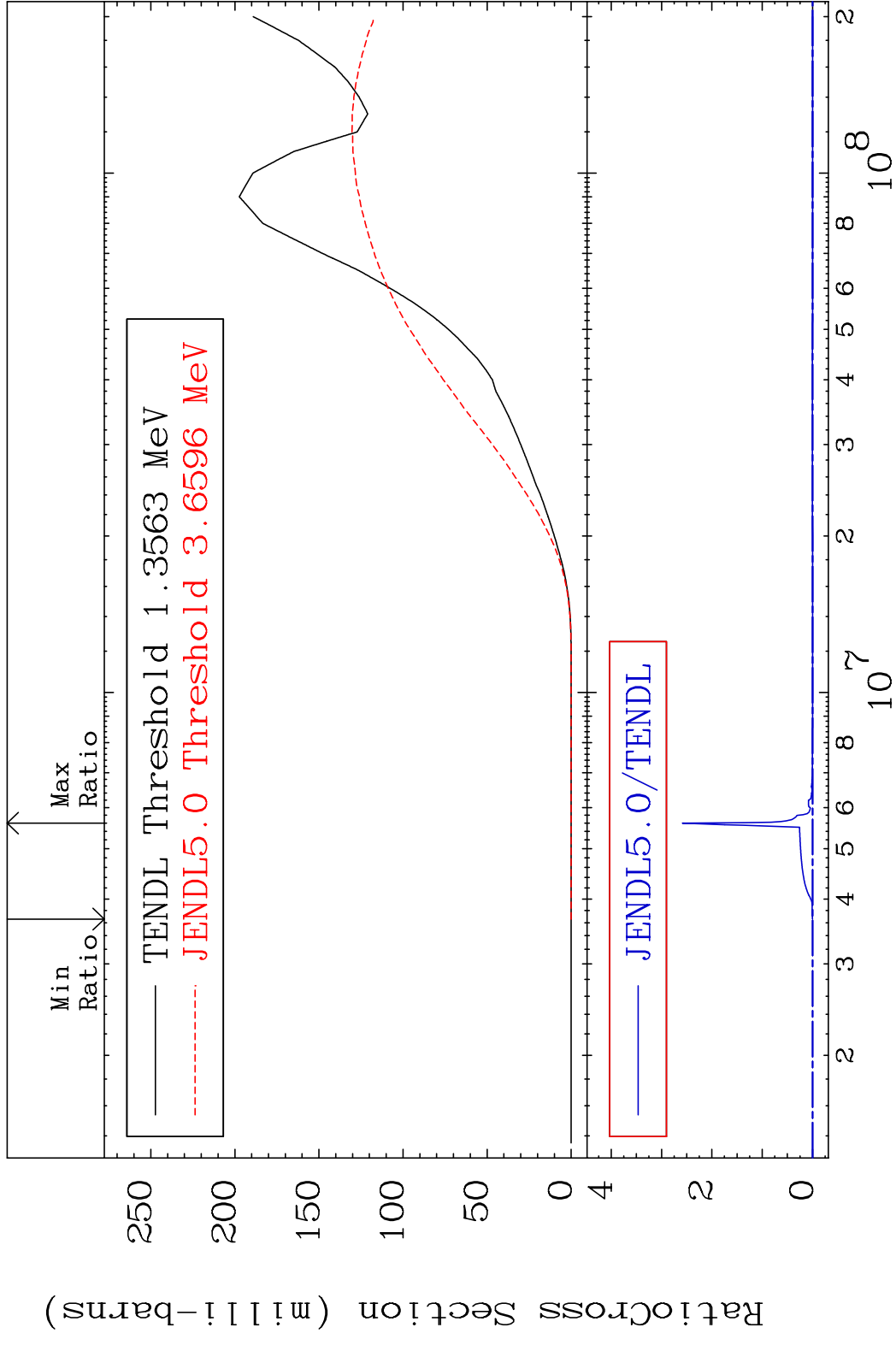


MAT 7219

Deuterium Production

72-Hf-172

Cross Section -100.0 To 9999. %

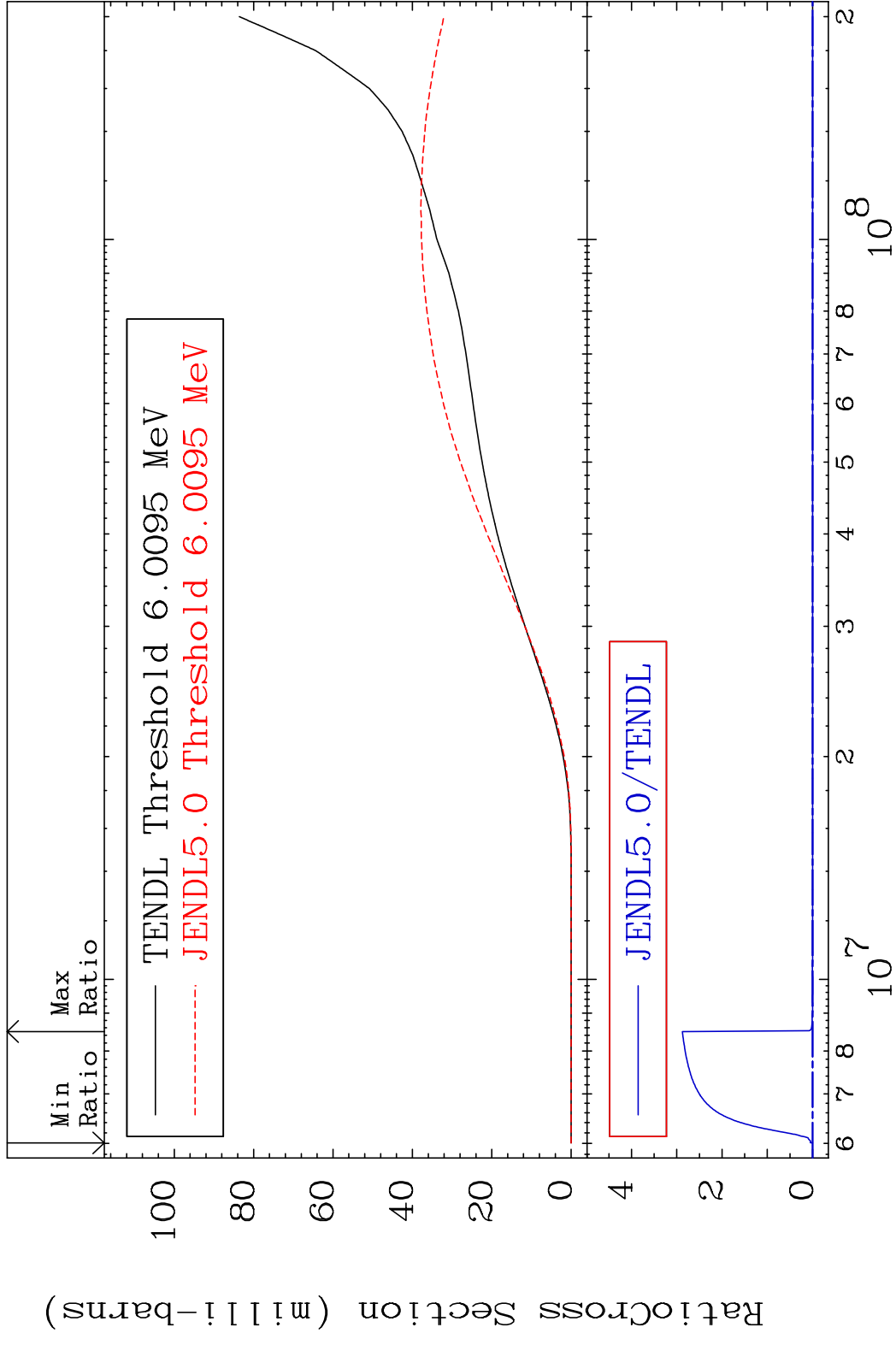


50

Incident Energy (eV)

72-Hf-172

MAT 7219 Tritium Production 72-Hf-172
 Cross Section -100.0 To 9999. %

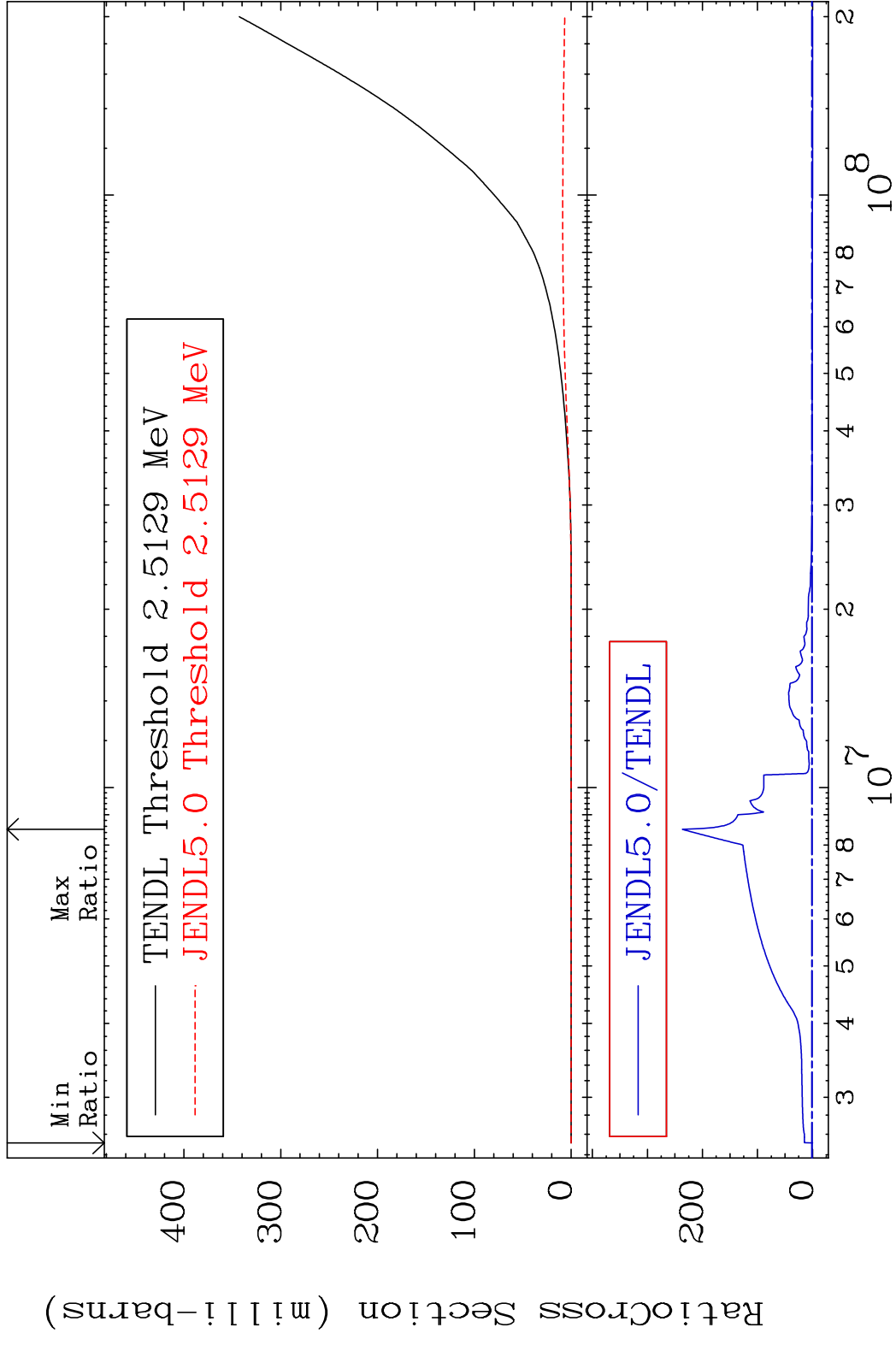


MAT 7219

He-3 Production

72-Hf-172

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

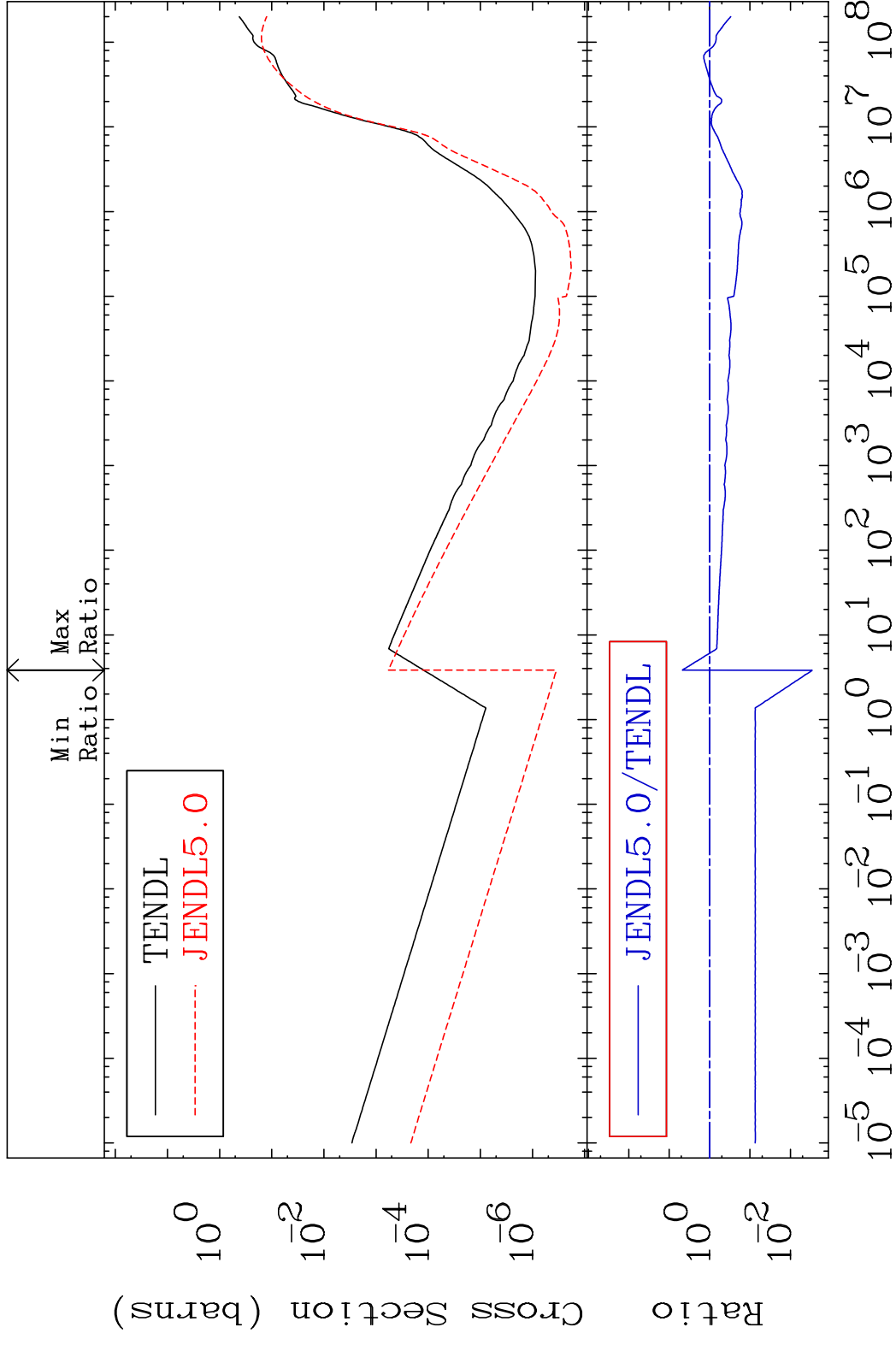
72-Hf-172

MAT 7219

He-4 Production

72-Hf-172

Cross Section -99.72 To 371.5 %

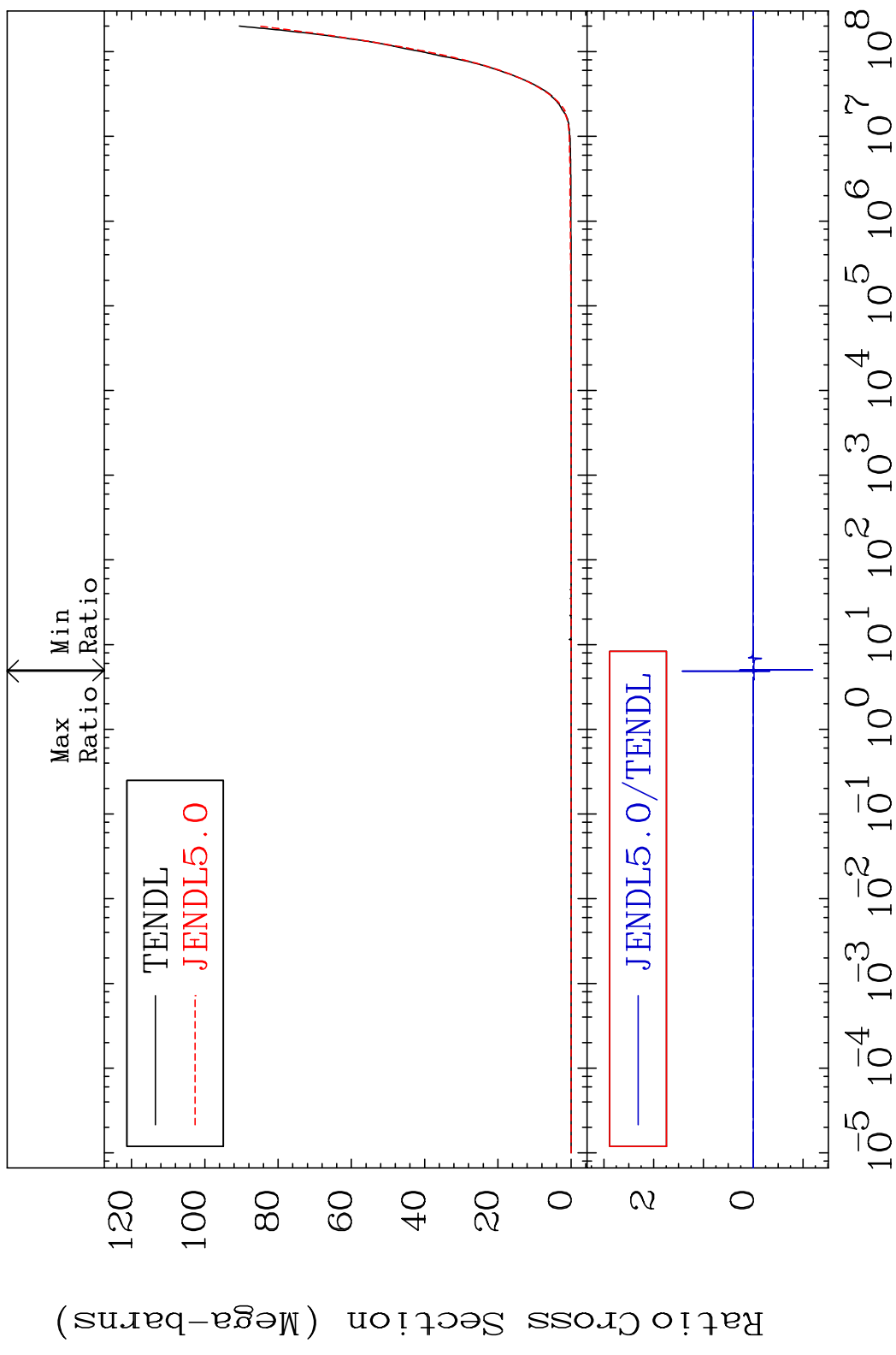


MAT 7219

Kerma total (eV-barns)

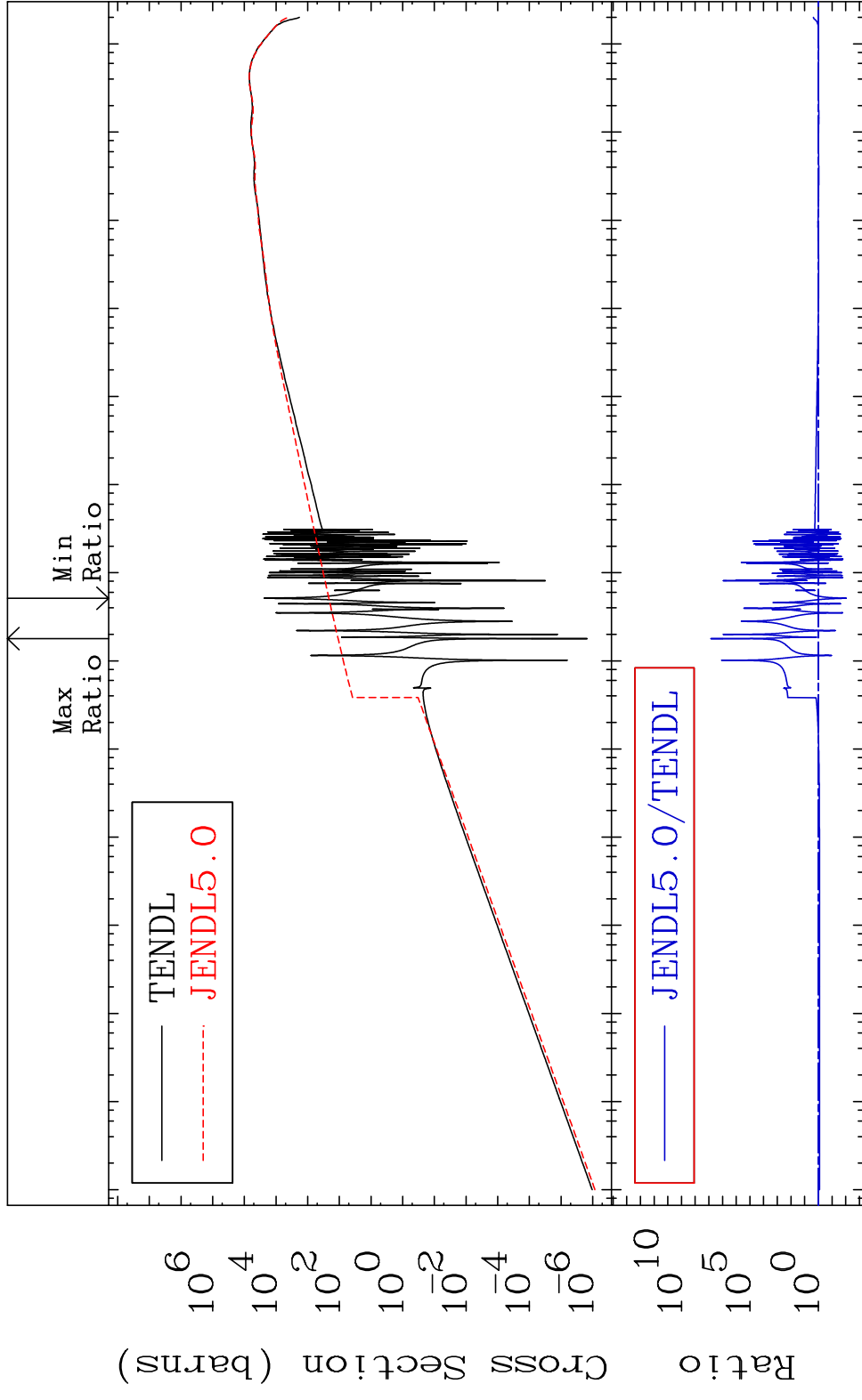
72-Hf-172

Cross Section -9999. To 9999. %

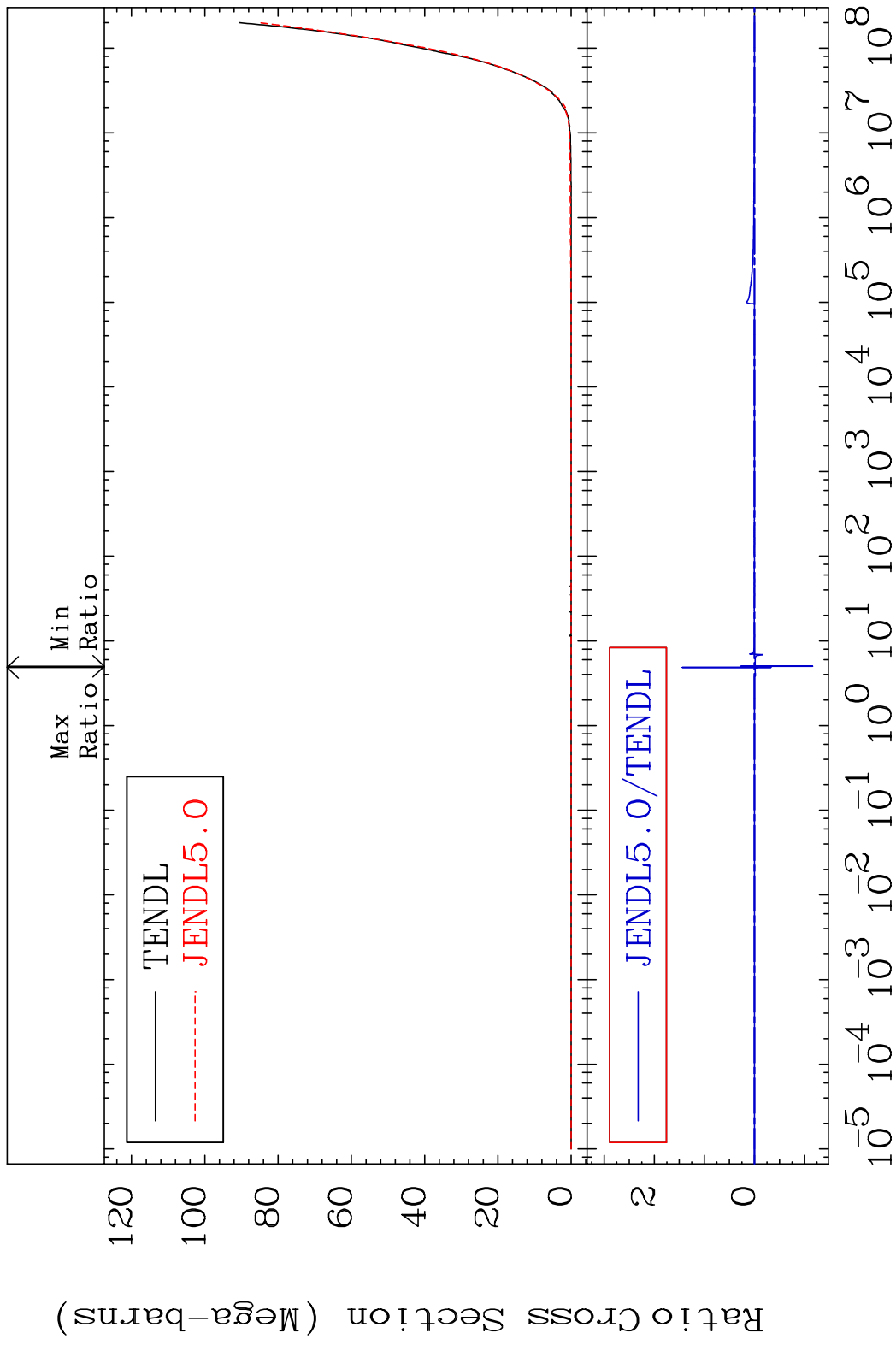


MAT 7219

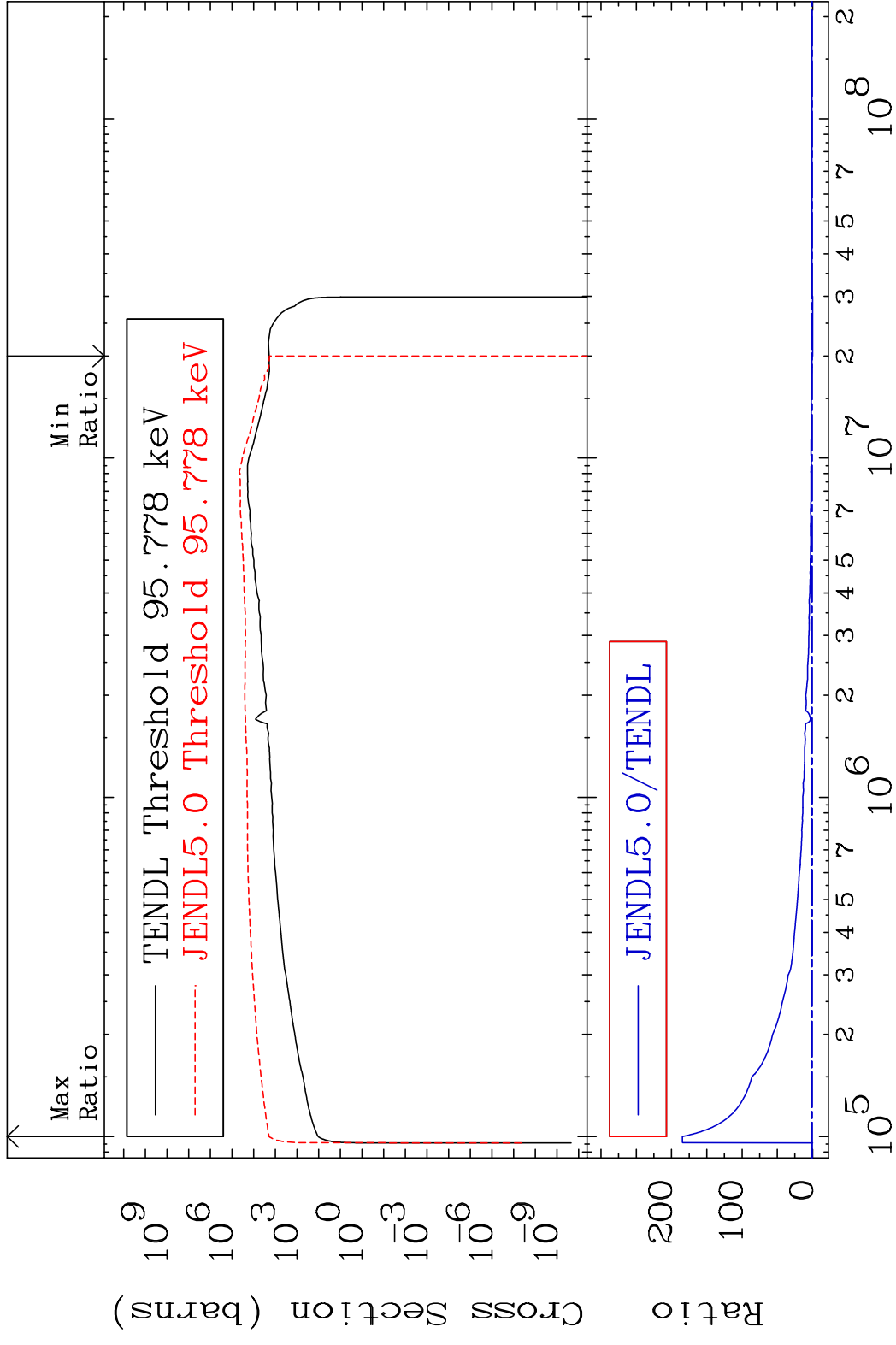
Kerma elastic Cross Section -99.10 To 9999. %
72-Hf-172



MAT 7219 Kerma non-elastic (all but mt2) 72-Hf-172
 Cross Section -9999. To 9999. %

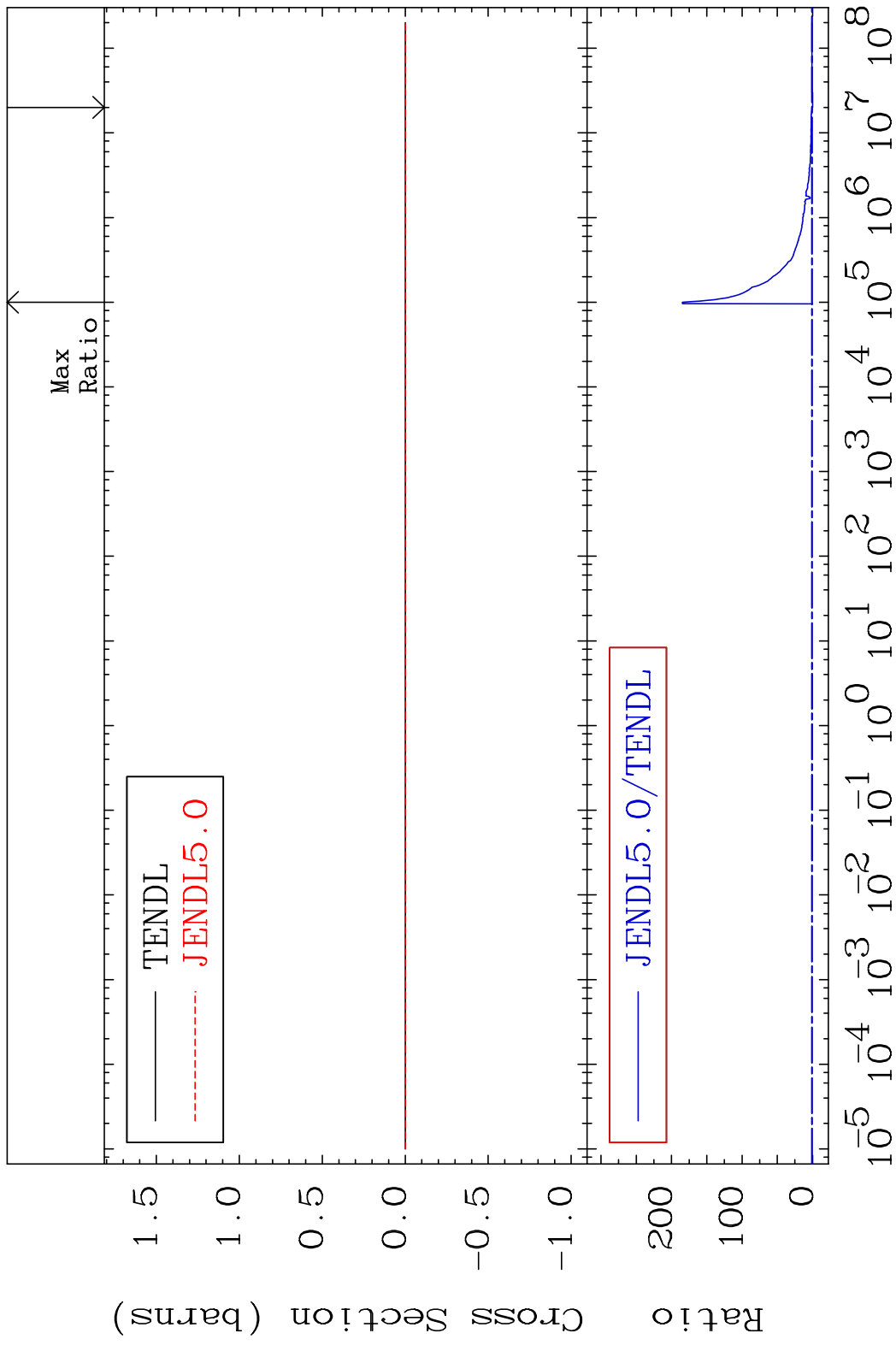


MAT 7219 Kerma inelastic (mt51-91) 72-Hf-172
 Cross Section -100.0 To 9999. %



57 Incident Energy (eV) 72-Hf-172

MAT 7219 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-172
 Cross Section -100.0 To 9999. %

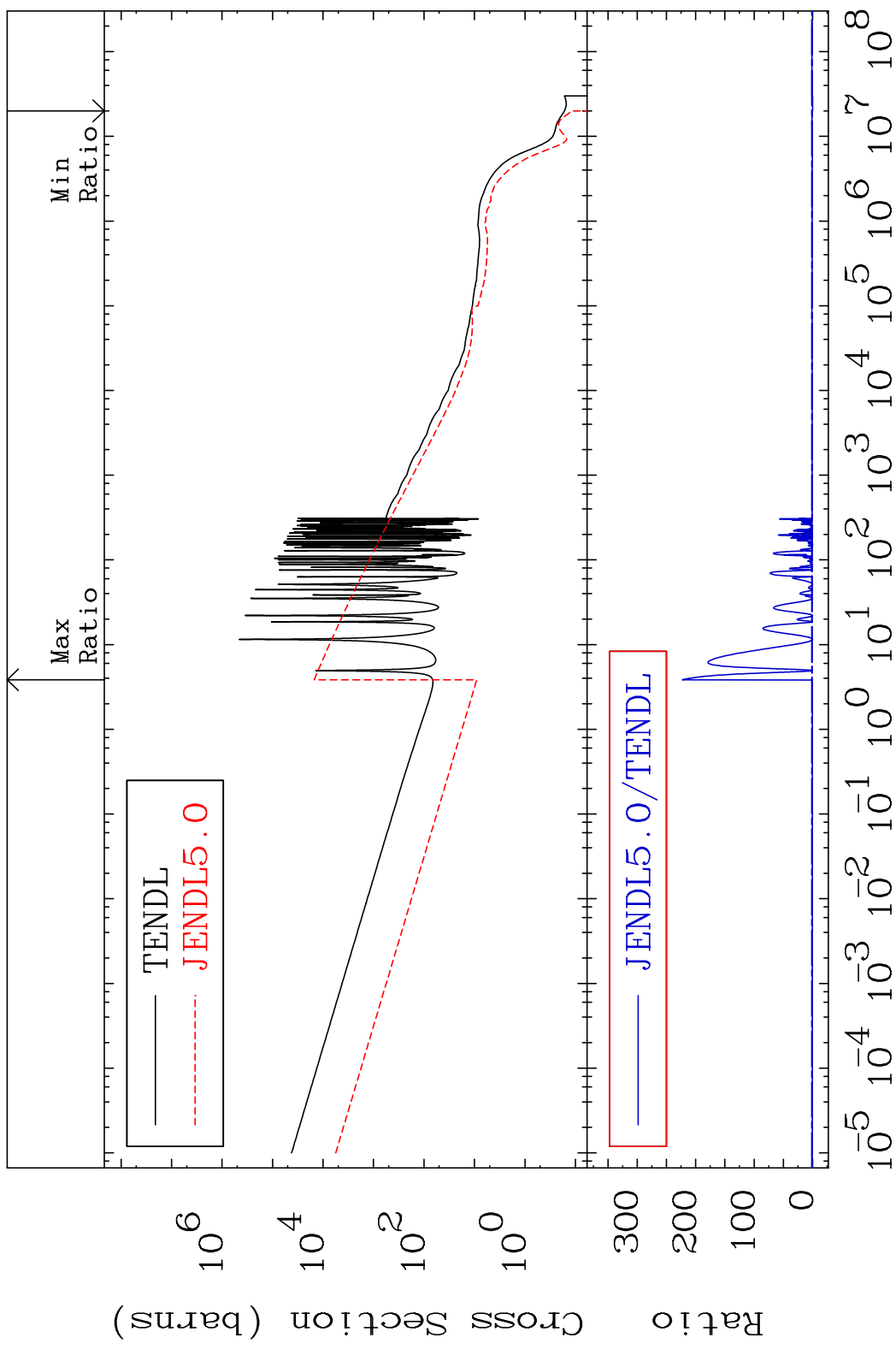


MAT 7219

Kerma capture (mt102)

72-Hf-172

Cross Section -100.0 To 9999. %

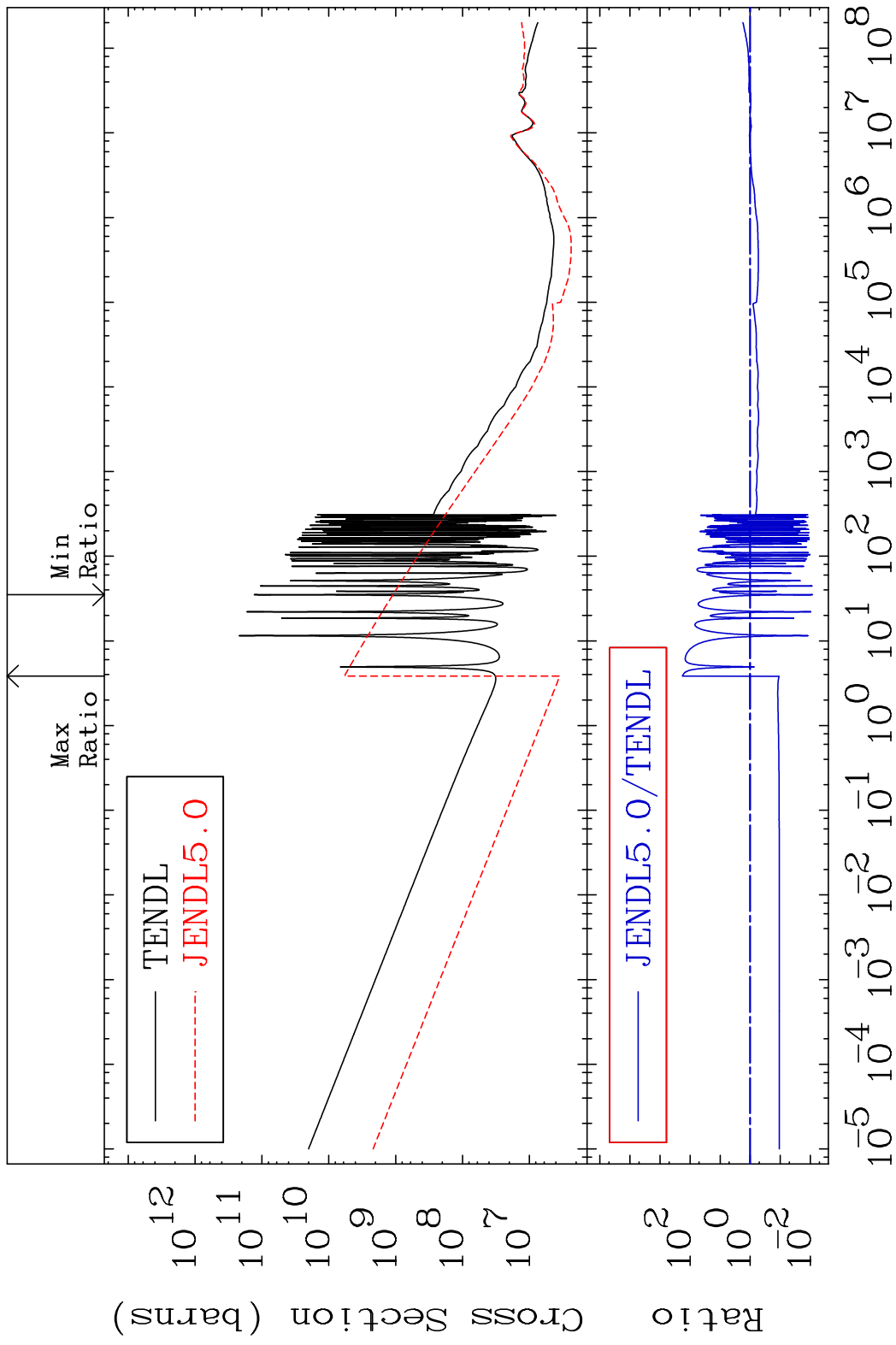


59

Incident Energy (eV)

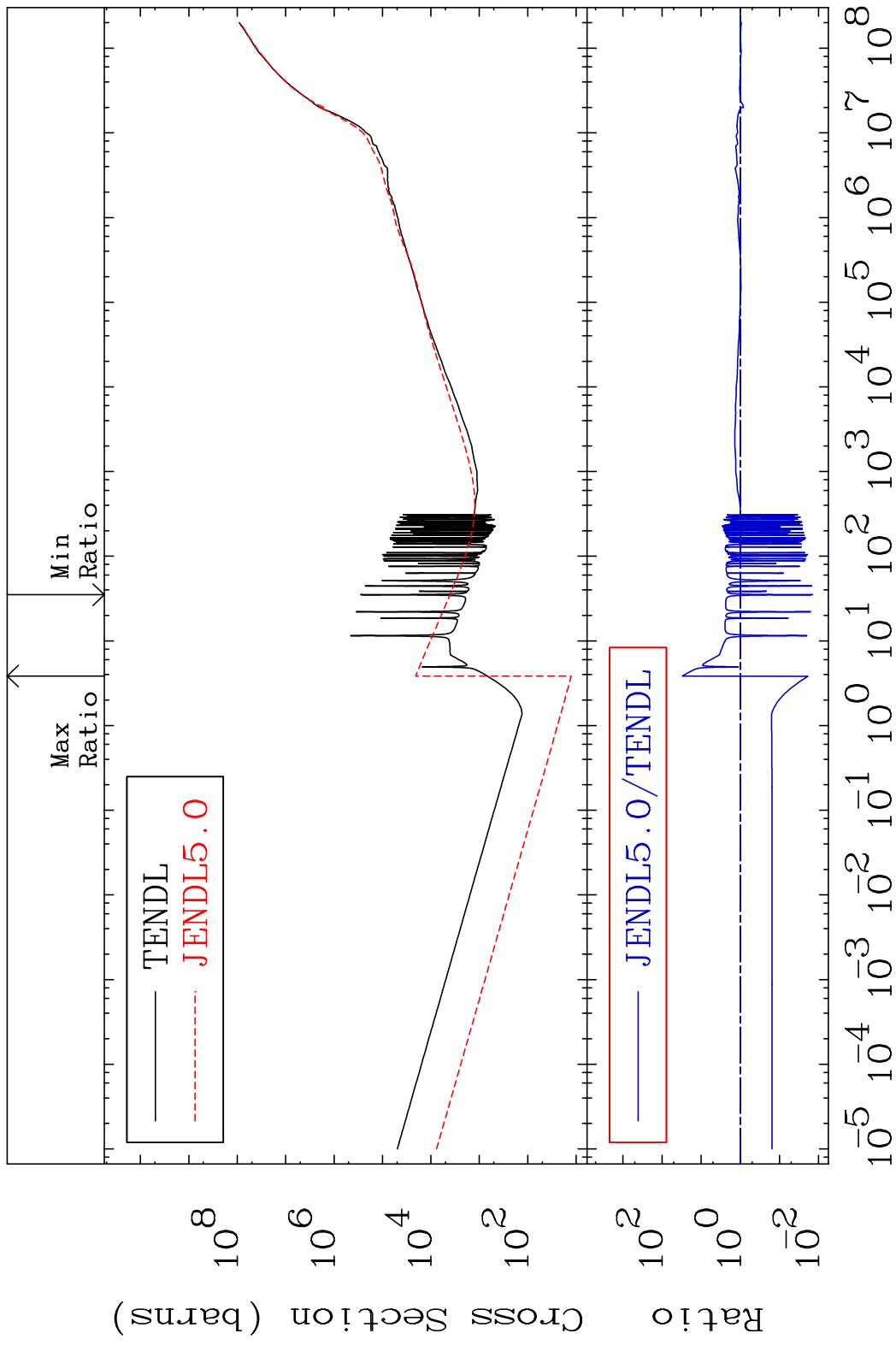
72-Hf-172

MAT 7219 Total photon (eV-barns) 72-Hf-172
Cross Section -99.15 To 9999. %



60 Incident Energy (eV) 72-Hf-172

MAT 7219 Total kinematic kerma (high limit) 72-Hf-172
 Cross Section -98.57 To 2921. %

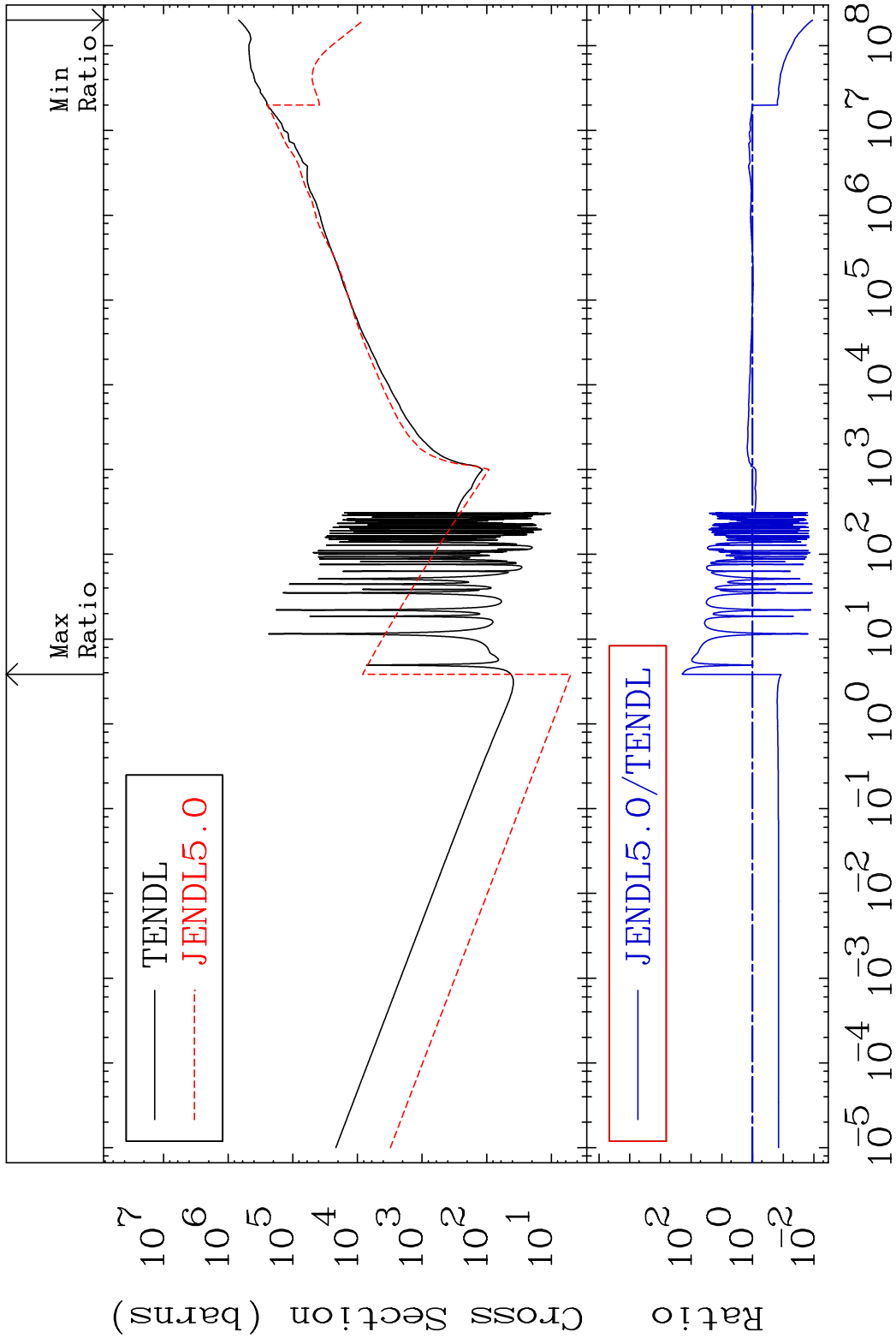


MAT 7219

Dpa total (eV-barns)

72-Hf-172

Cross Section -98.88 To 9999. %



62

Incident Energy (eV)

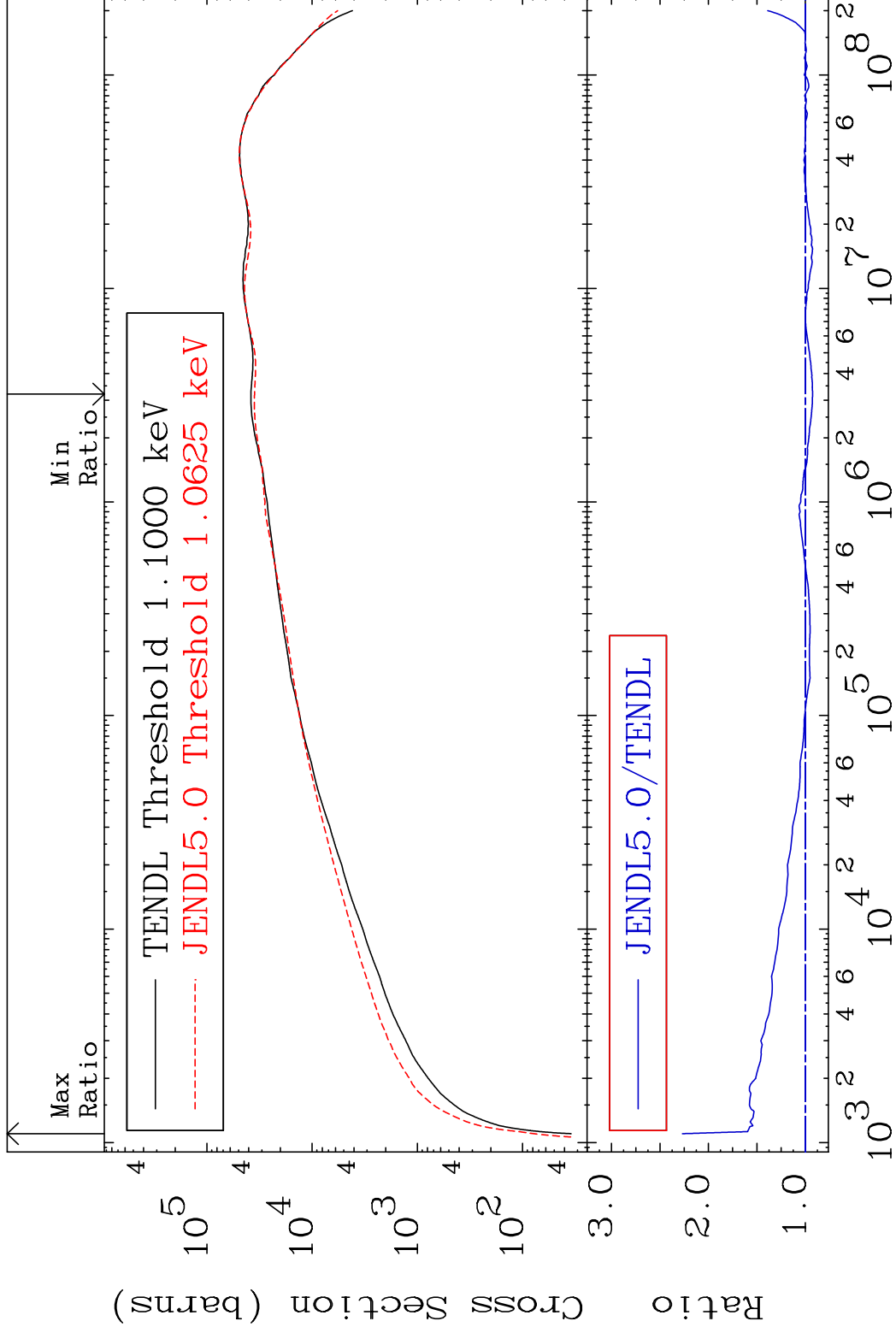
72-Hf-172

MAT 7219

Dpa elastic (mt2)

72-Hf-172

Cross Section -7.464 To 126.9 %

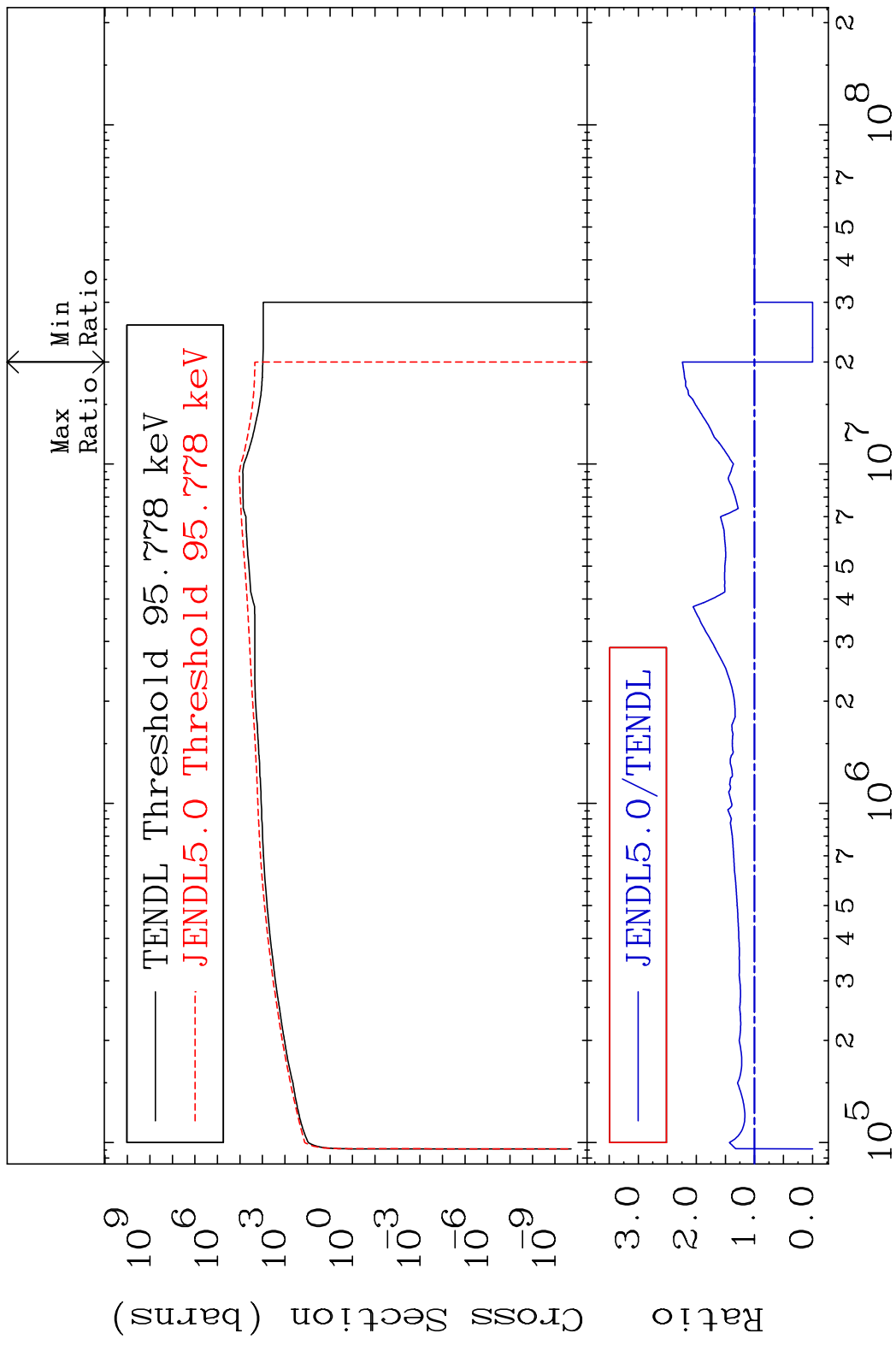


63

Incident Energy (eV)

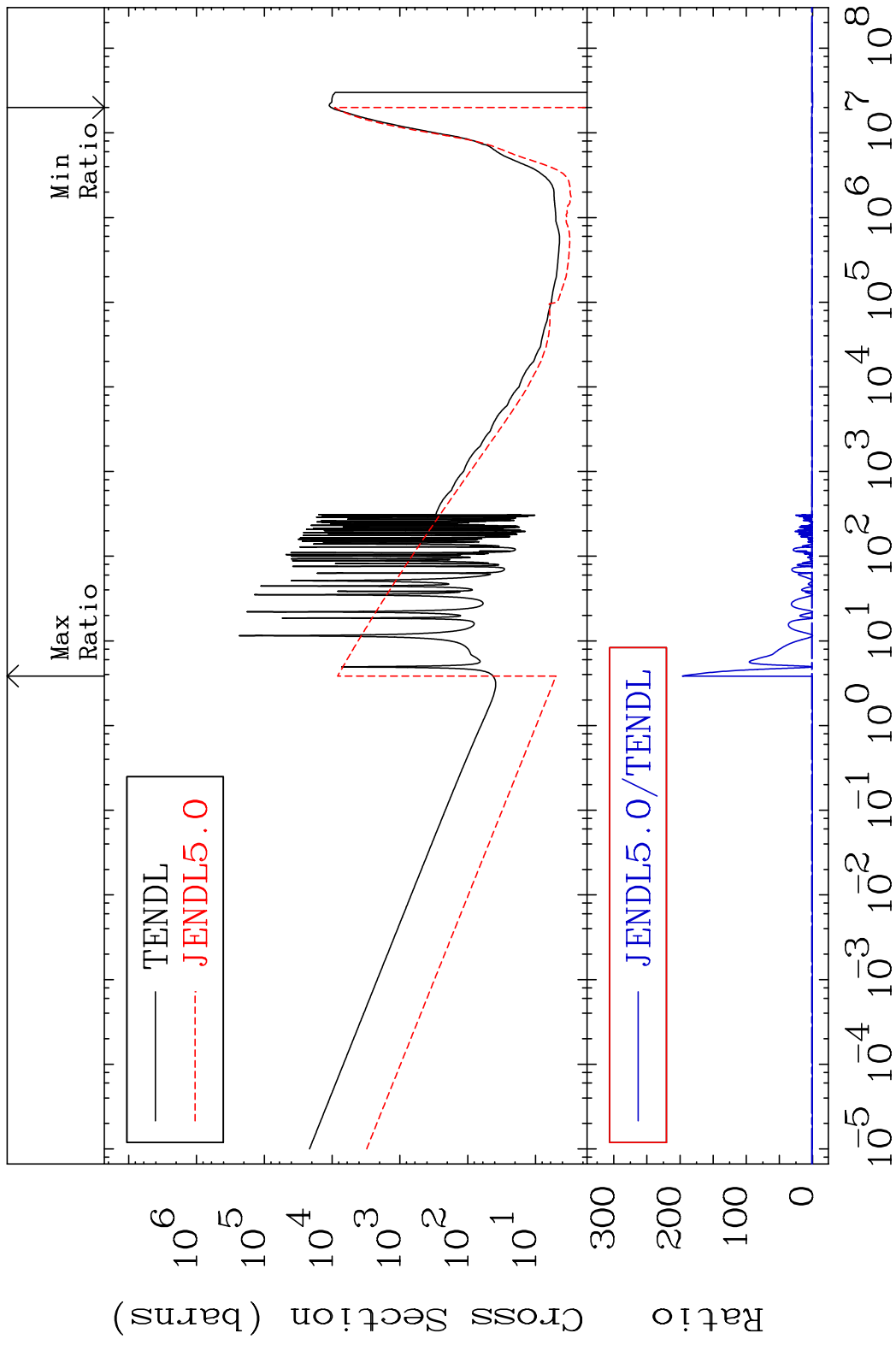
72-Hf-172

MAT 7219 Dpa inelastic (mt51-91) 72-Hf-172
 Cross Section -100.0 To 124.1 %

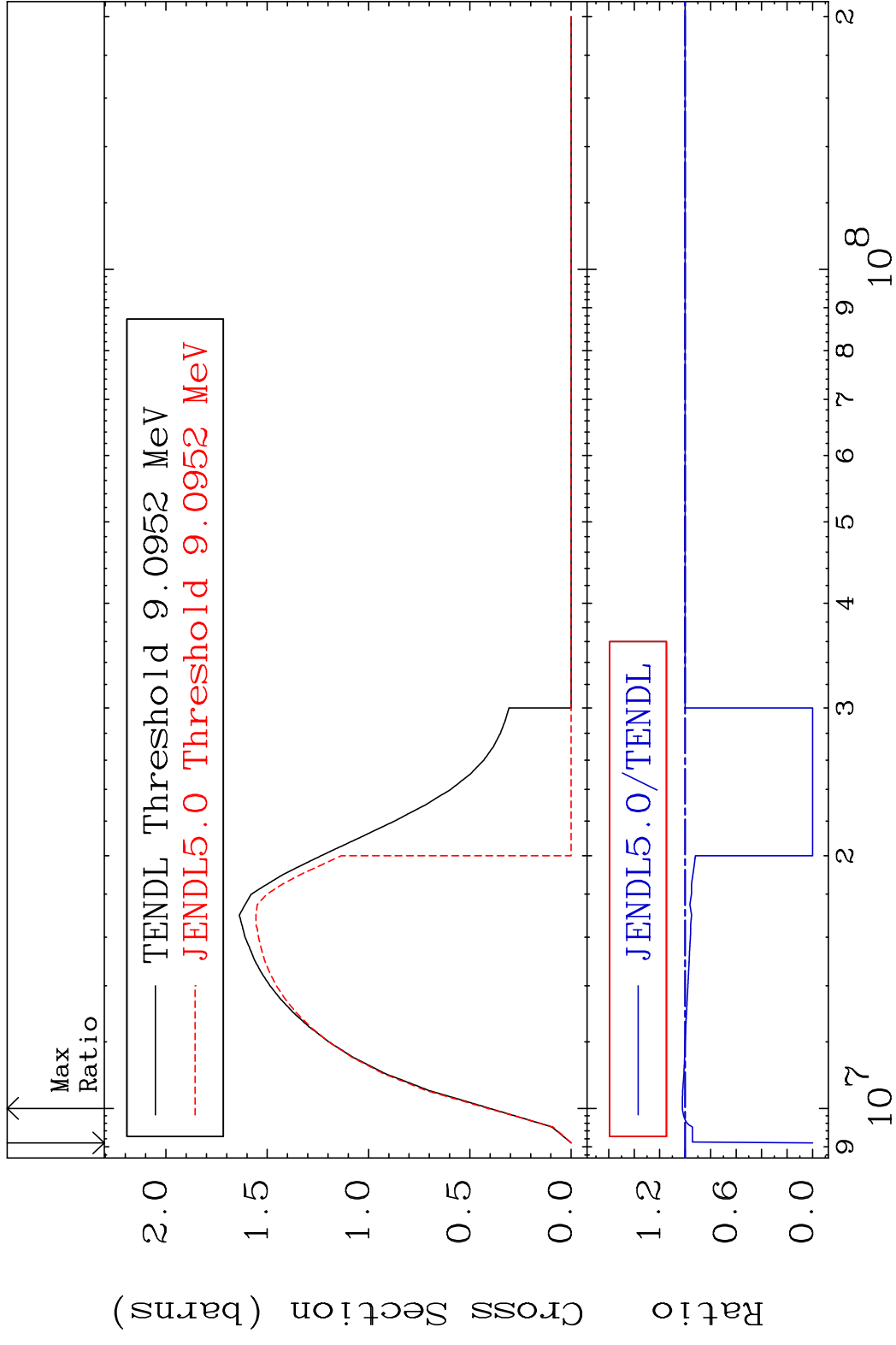


64 Incident Energy (eV) 72-Hf-172

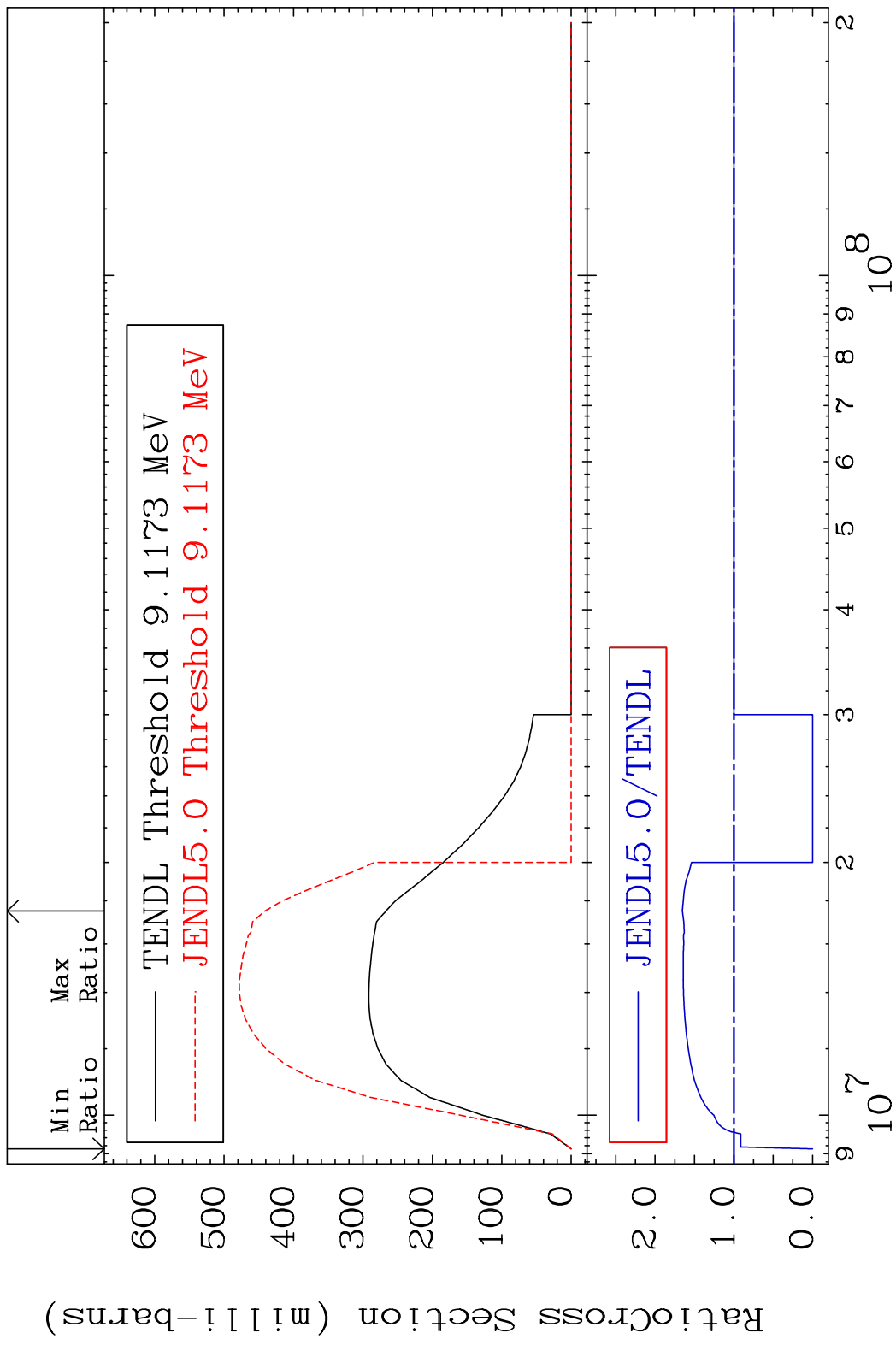
MAT 7219 Dpa disappearance (mt102 -120) 72-Hf-172
 Cross Section -100.0 To 9999. %



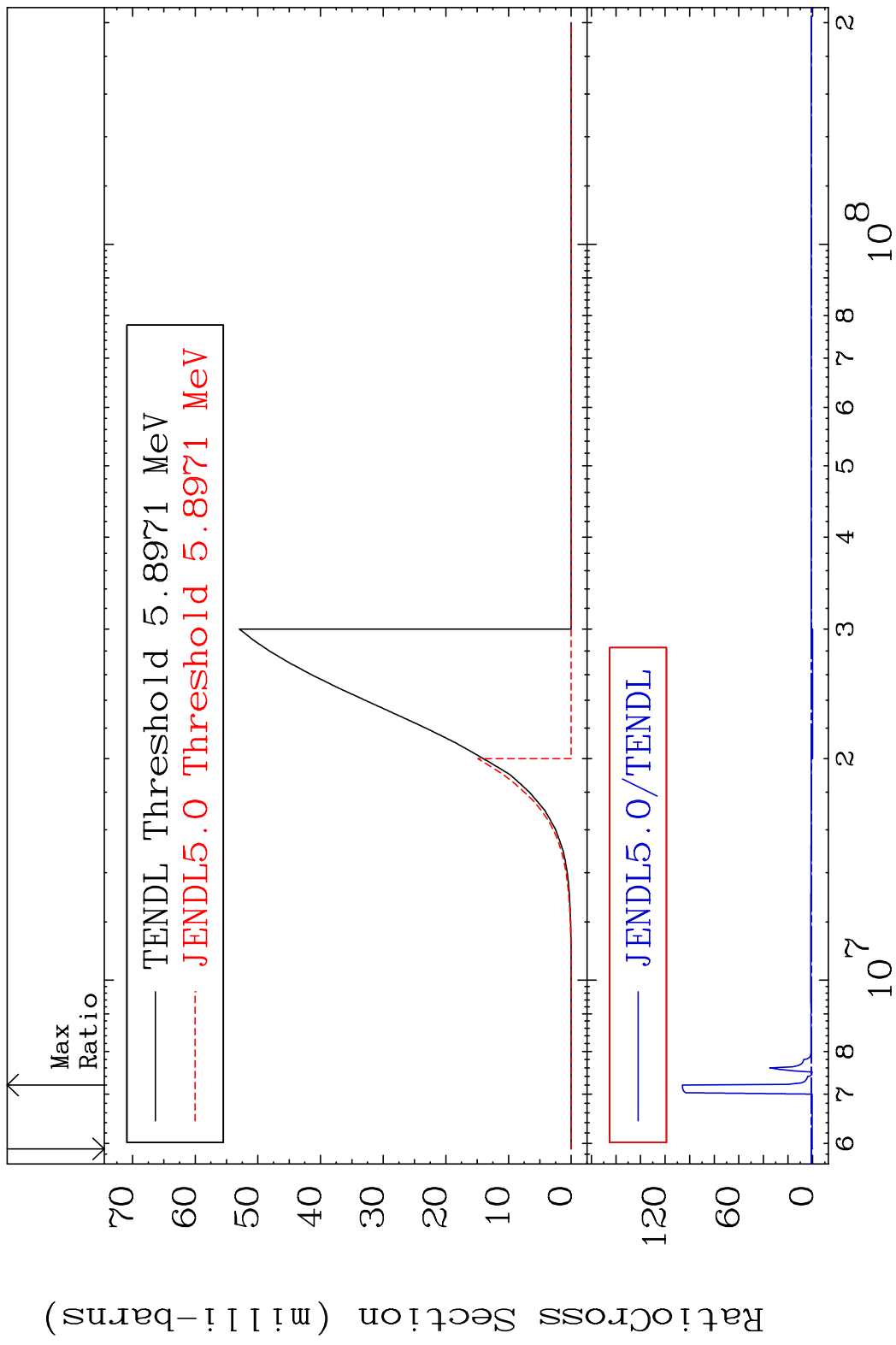
65 Incident Energy (eV) 72-Hf-172

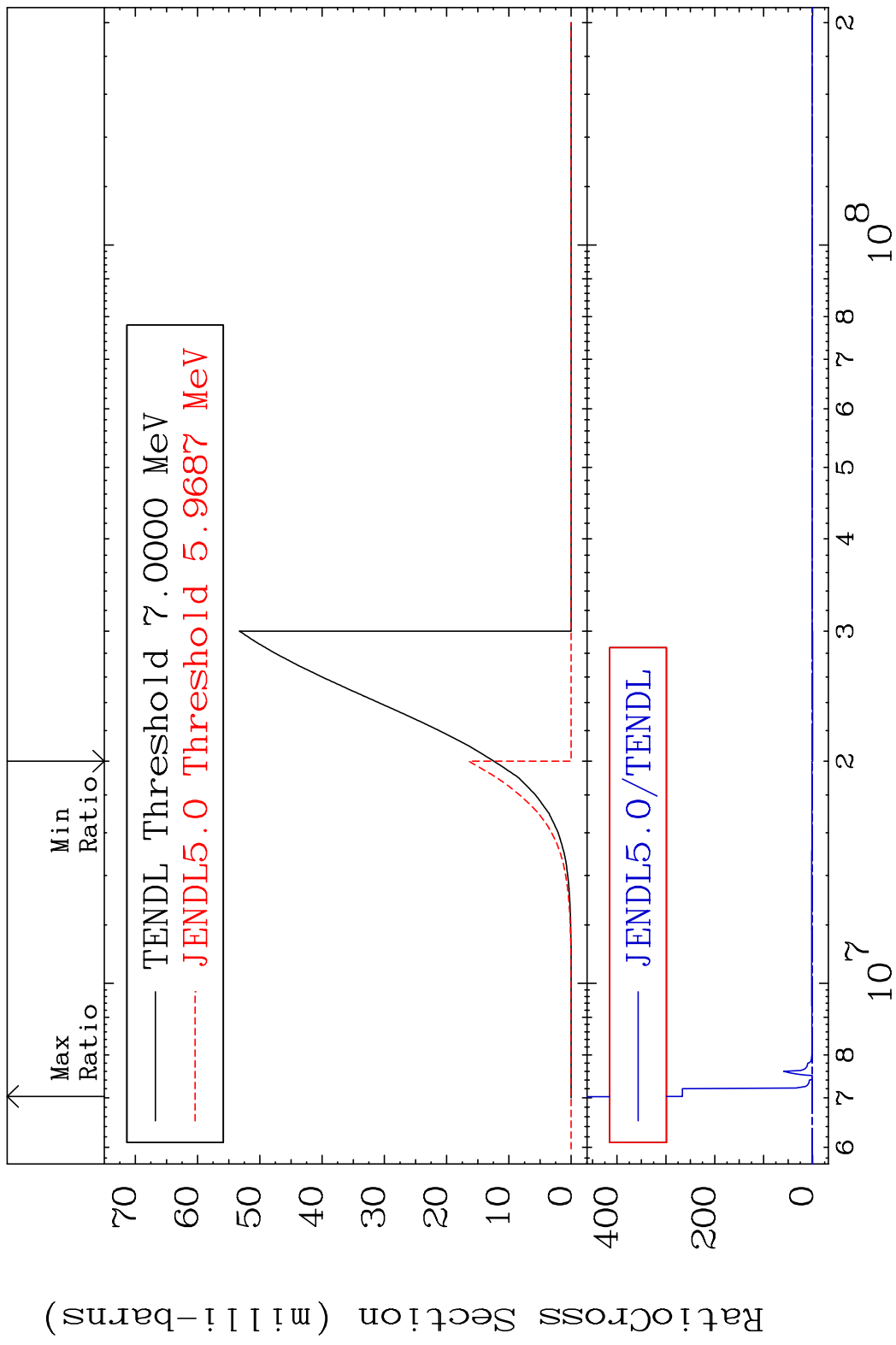


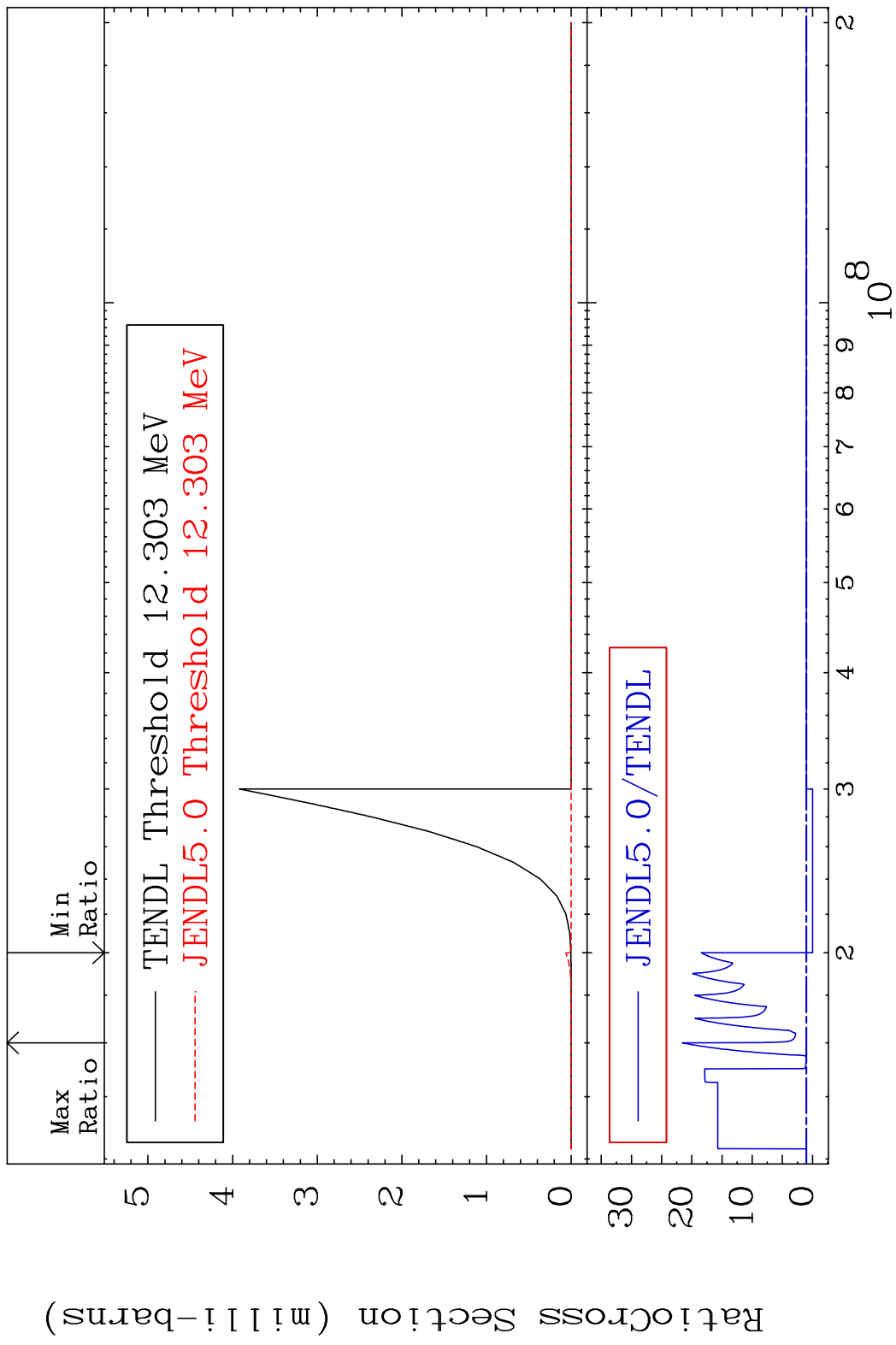
MAT 7219 (n,2n):72-Hf-171m1 72-Hf-172
 Radionuclide Production Cross Section 65.37 %

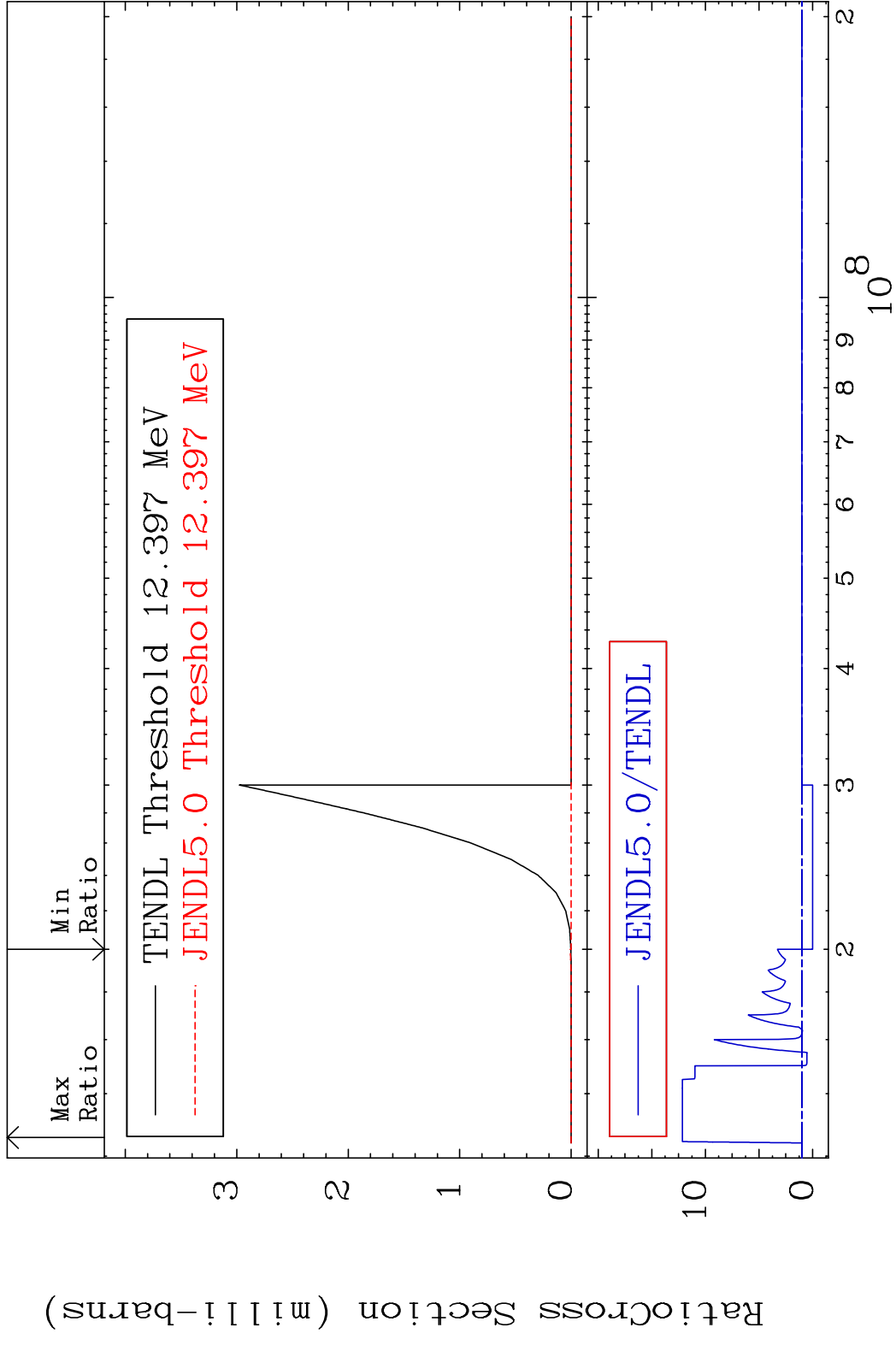


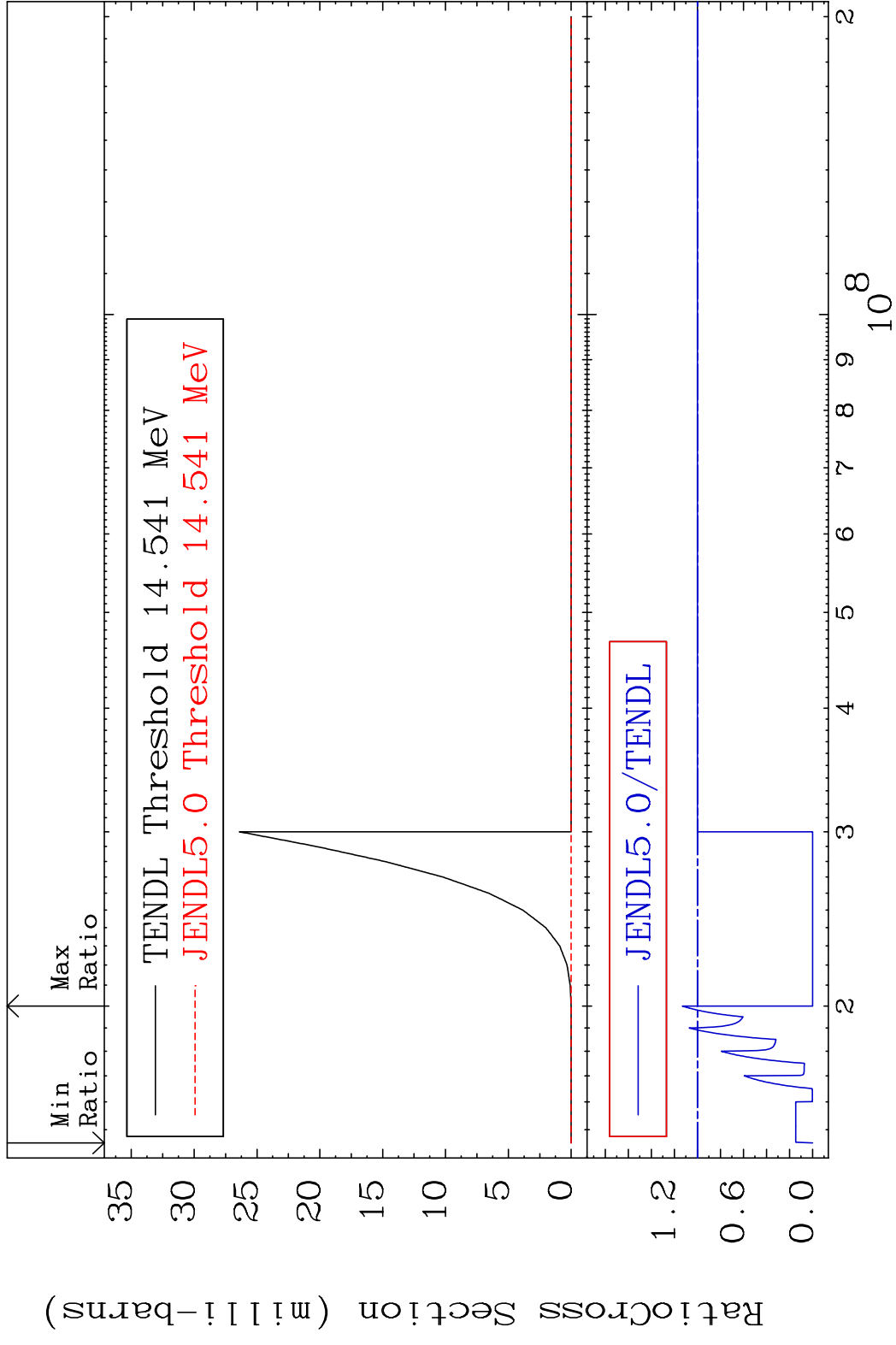
67 Incident Energy (eV) 72-Hf-172

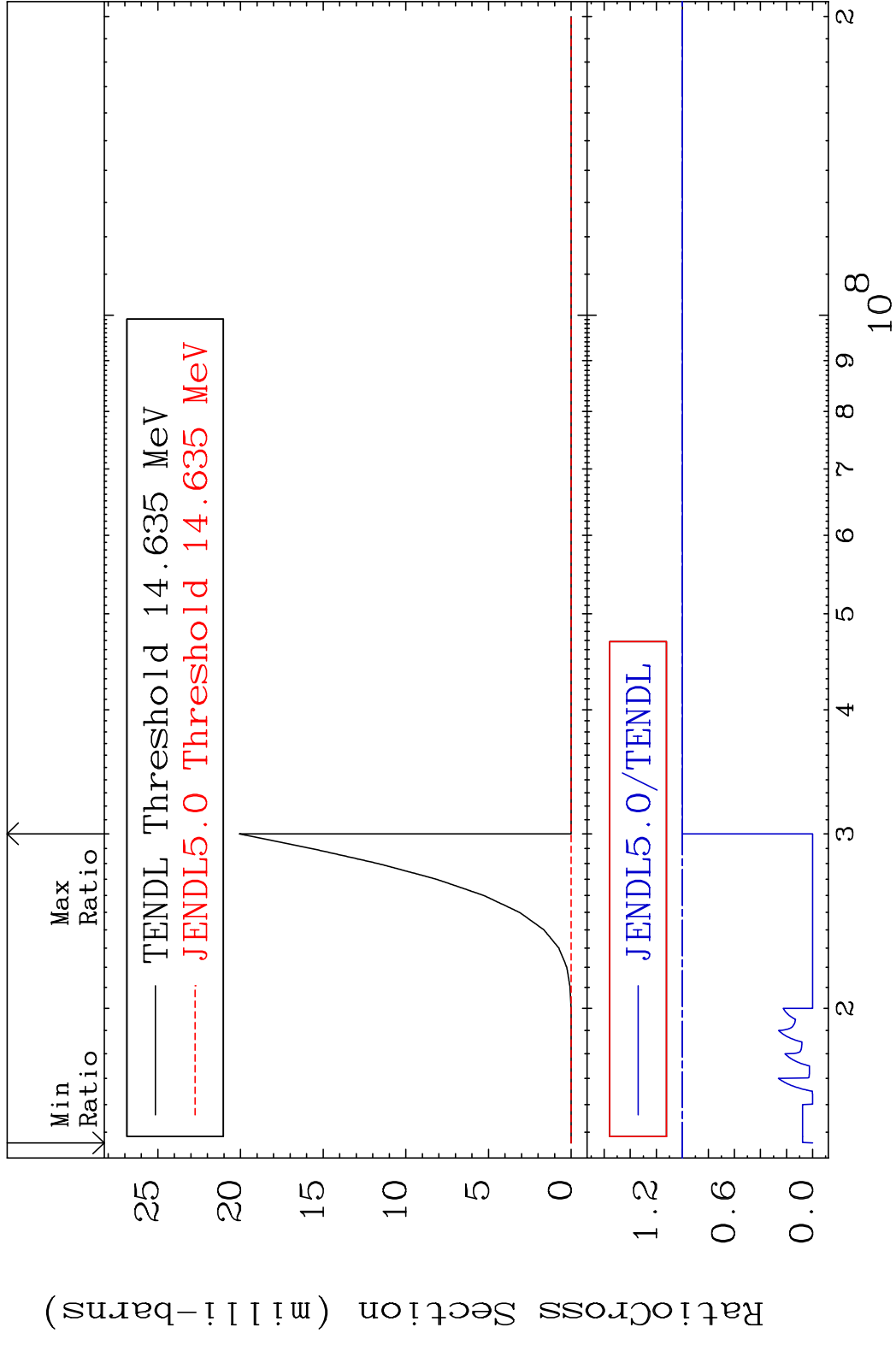




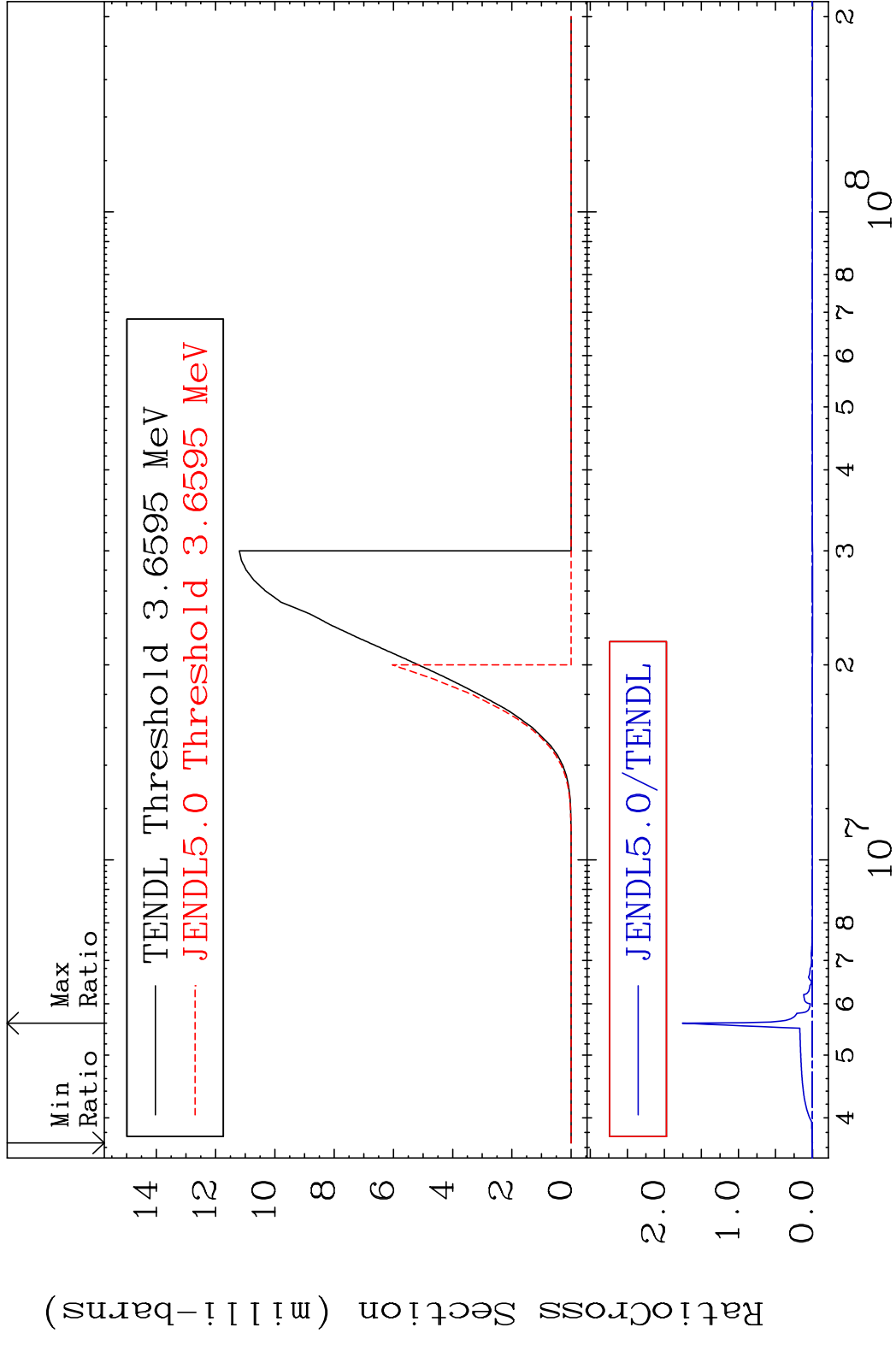








MAT 7219 (n,d):71-Lu-171g 72-Hf-172
 Radionuclide Production Cross Section Ratio 9999. %



MAT 7219 (n,d):71-Lu-171m1 72-Hf-172
 Radionuclide Production Cross Section Ratio 9999. %

