

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

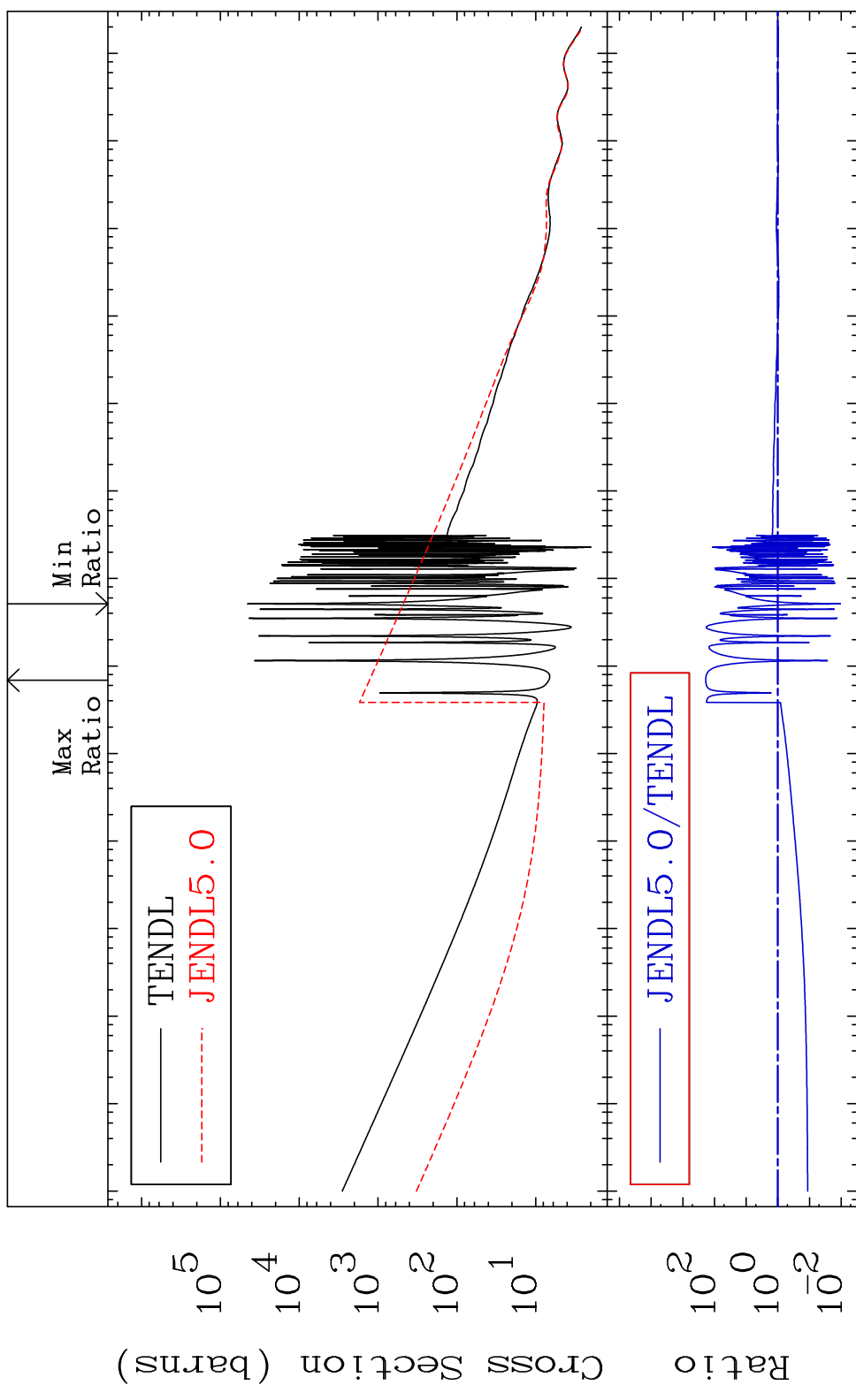
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 7219

Total
Cross Section -98.94 To 9999. %



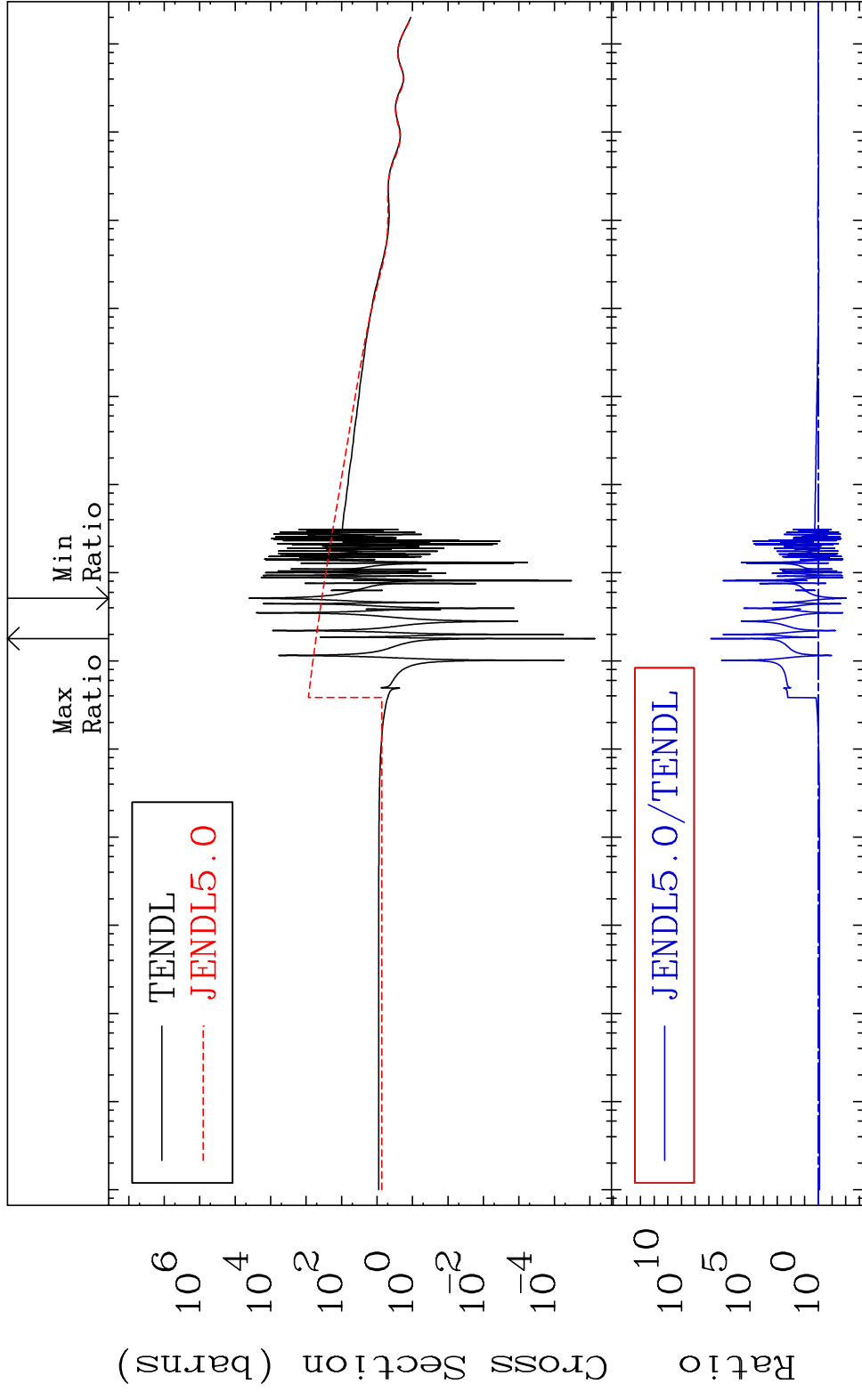
1 Incident Energy (eV) 72-Hf-172

MAT 7219

72-Hf-172

Elastic

Cross Section -99.10 To 9999. %



2

Incident Energy (eV)

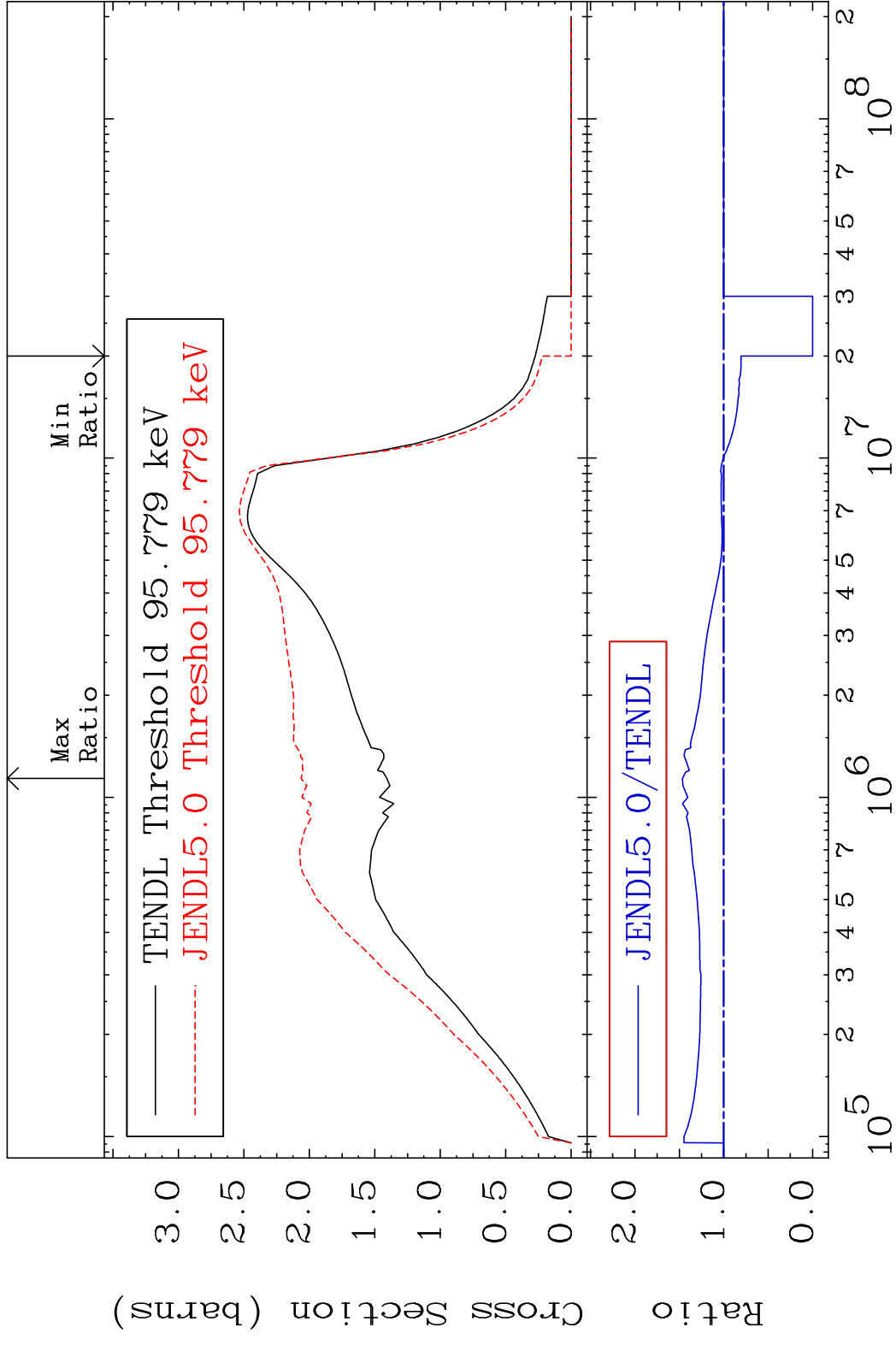
72-Hf-172

MAT 7219

Inelastic

72-Hf-172

Cross Section -100.0 To 46.58 %



3

Incident Energy (eV)

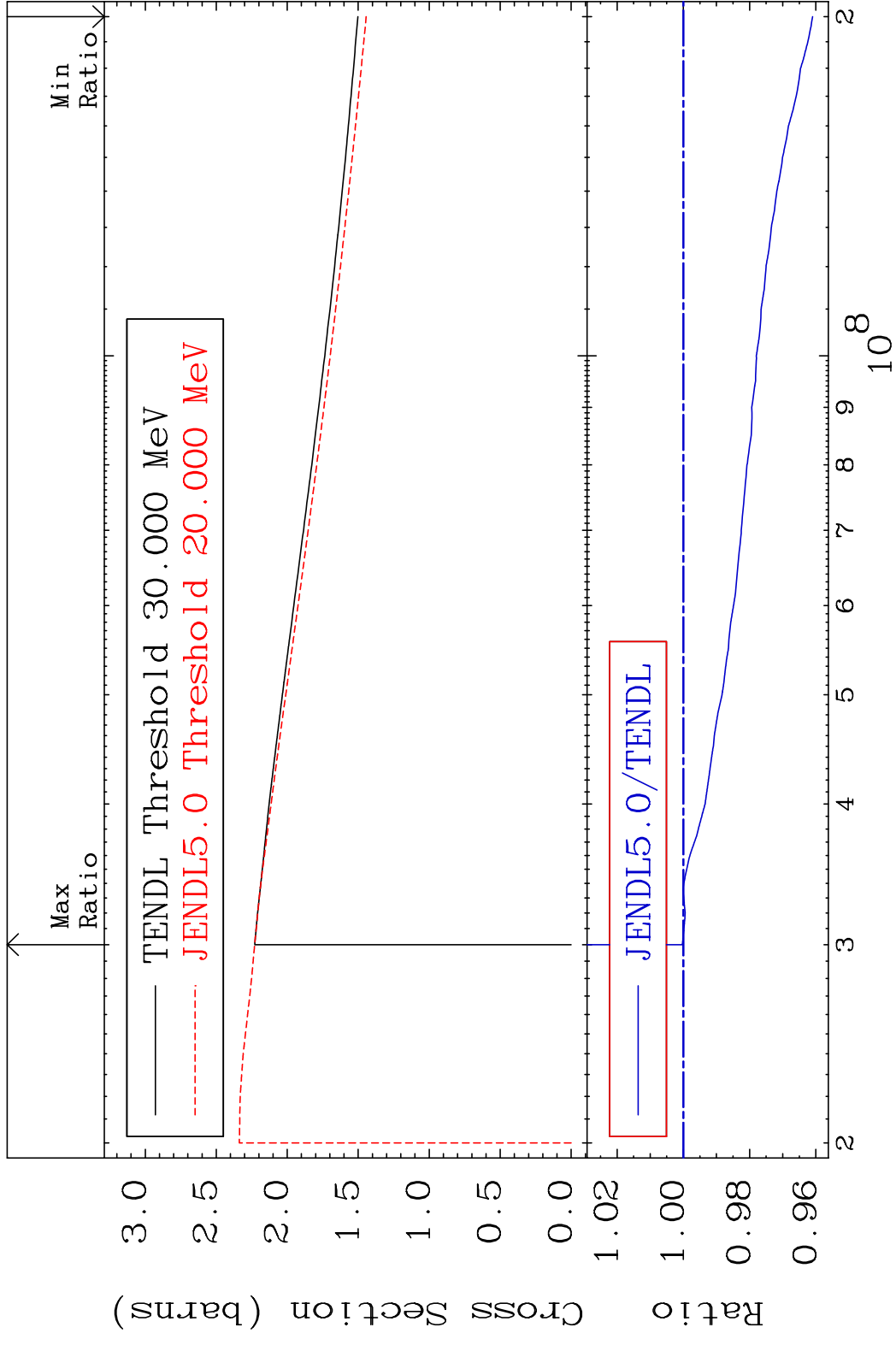
72-Hf-172

MAT 7219

(n, remainder)

72-Hf-172

Cross Section -3.901 To 0.029 %



4

Incident Energy (eV)

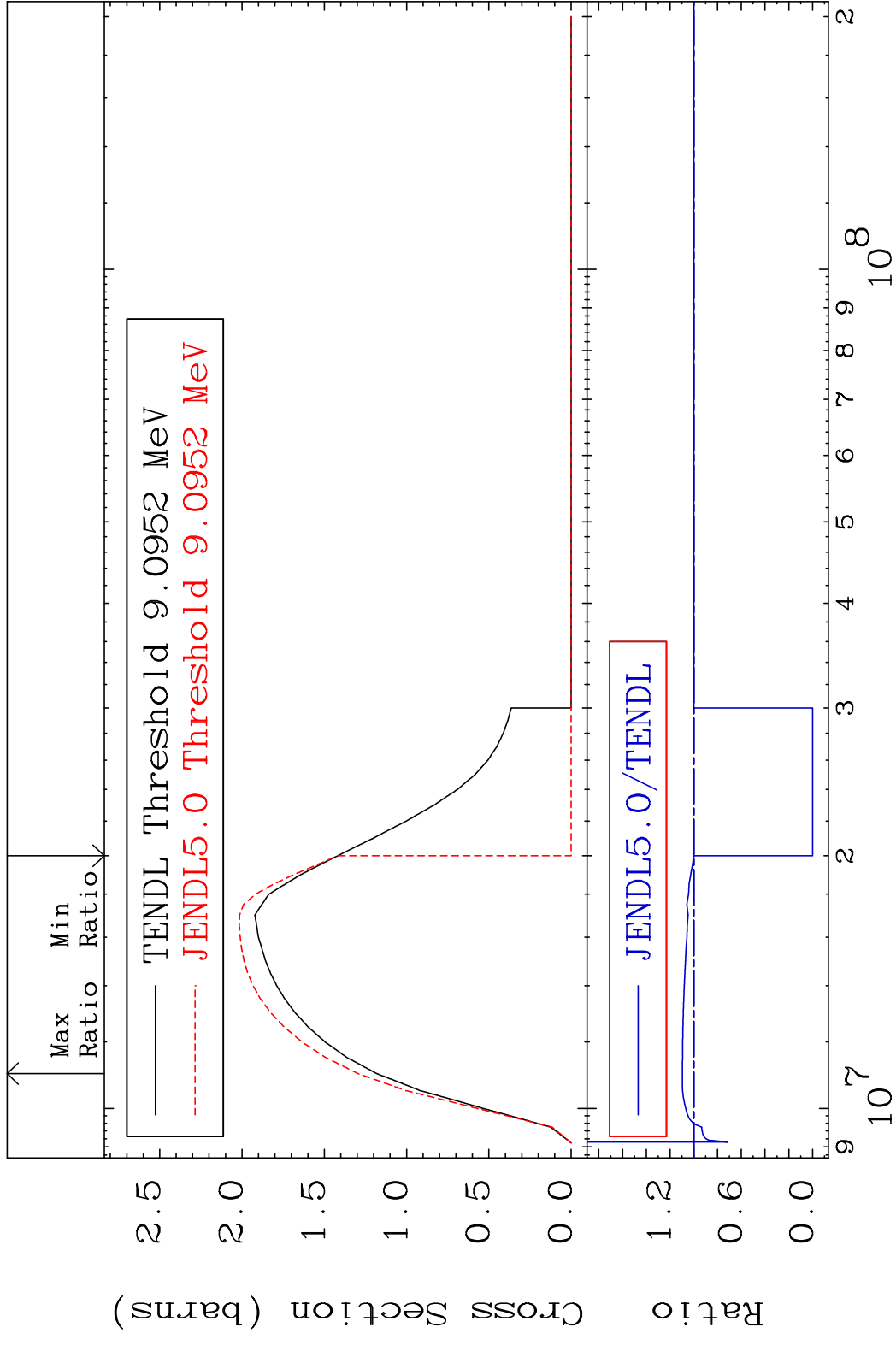
72-Hf-172

MAT 7219

(n,2n)

72-Hf-172

Cross Section -100.0 To 9.642 %



5

Incident Energy (eV)

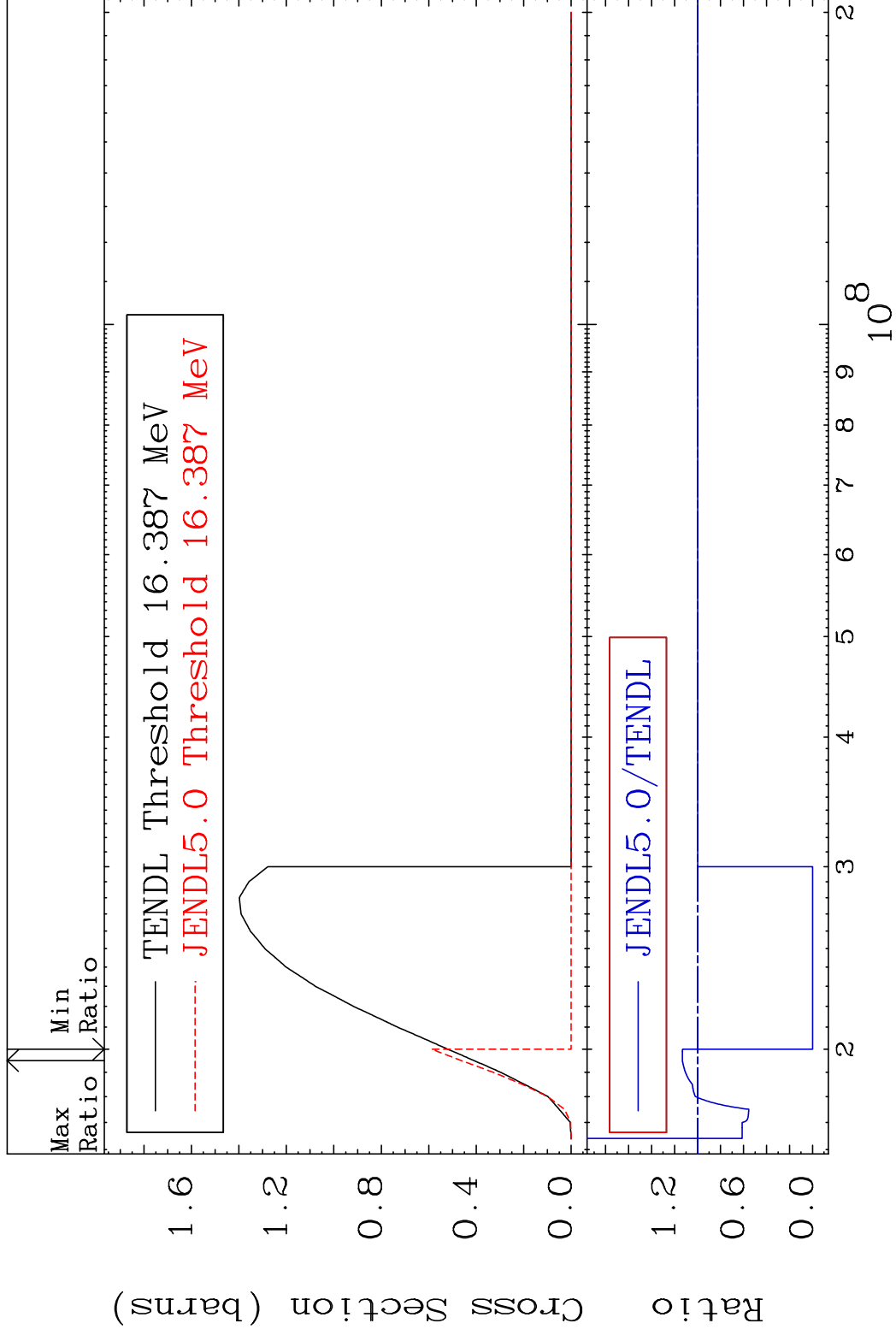
72-Hf-172

MAT 7219

(n,3n)

72-Hf-172

Cross Section -100.0 To 13.24 %



6

Incident Energy (eV)

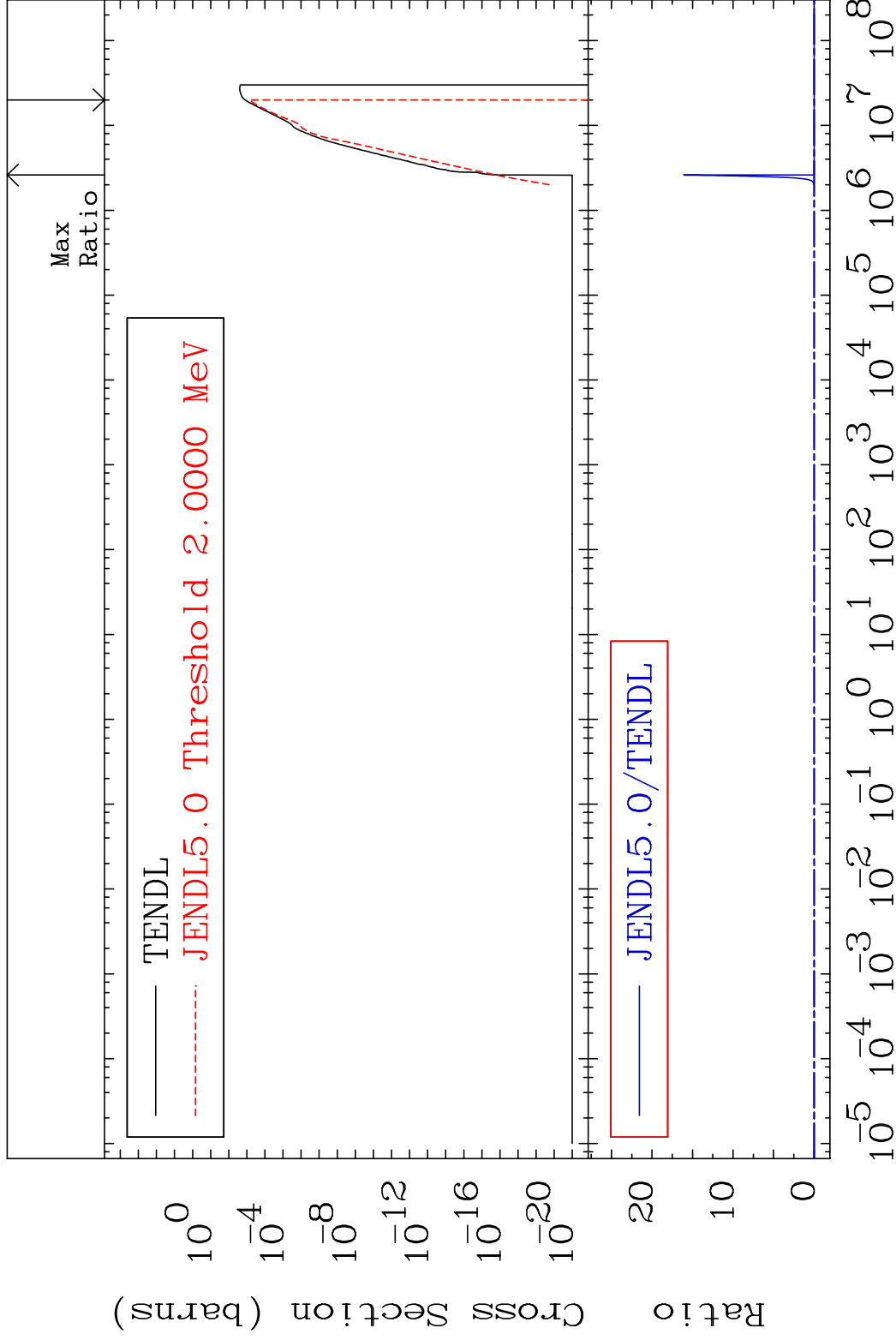
72-Hf-172

MAT 7219

(n, n') α

72-Hf-172

Cross Section -100.0 To 9999. %

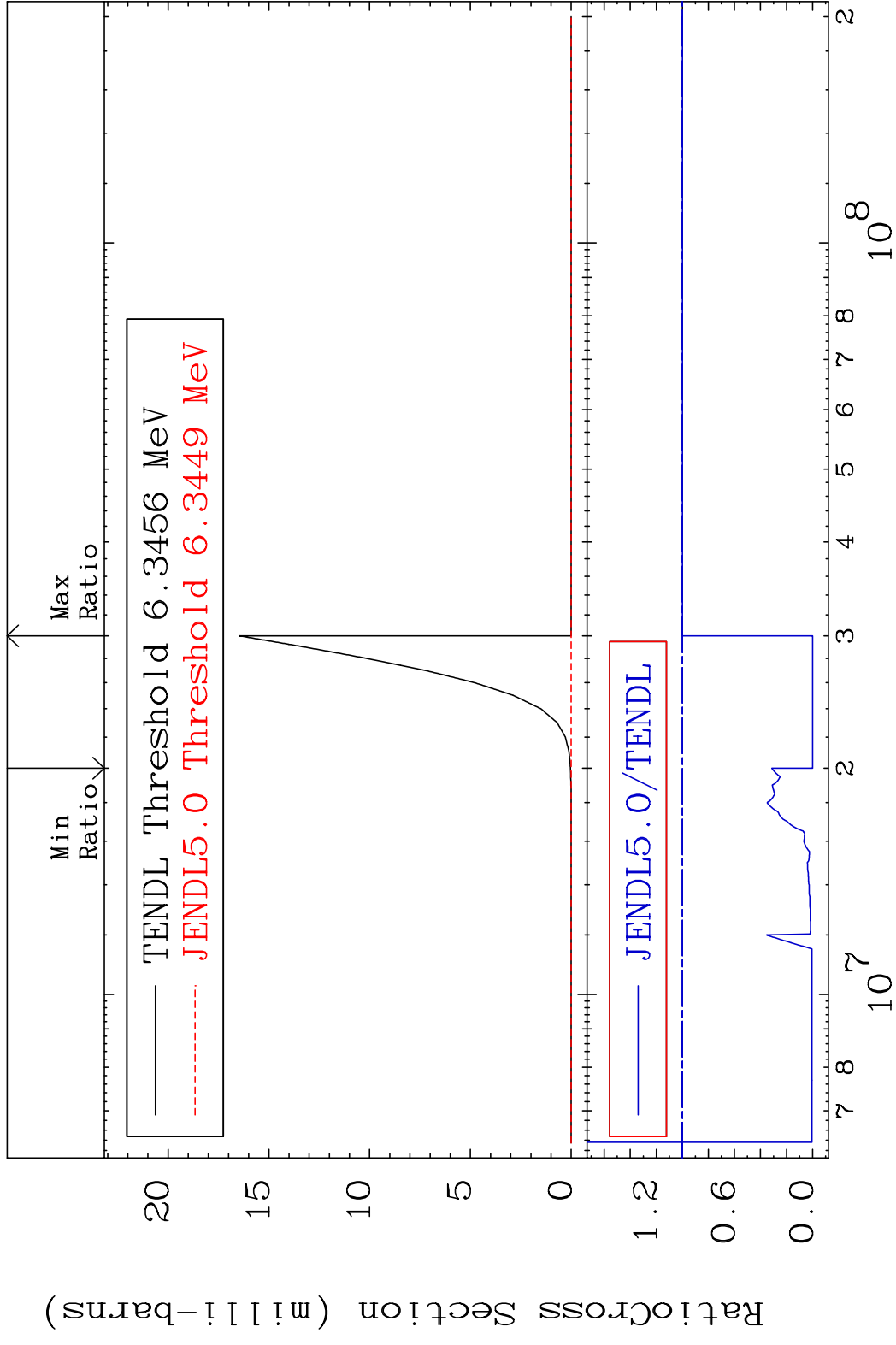


7

Incident Energy (eV)

72-Hf-172

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

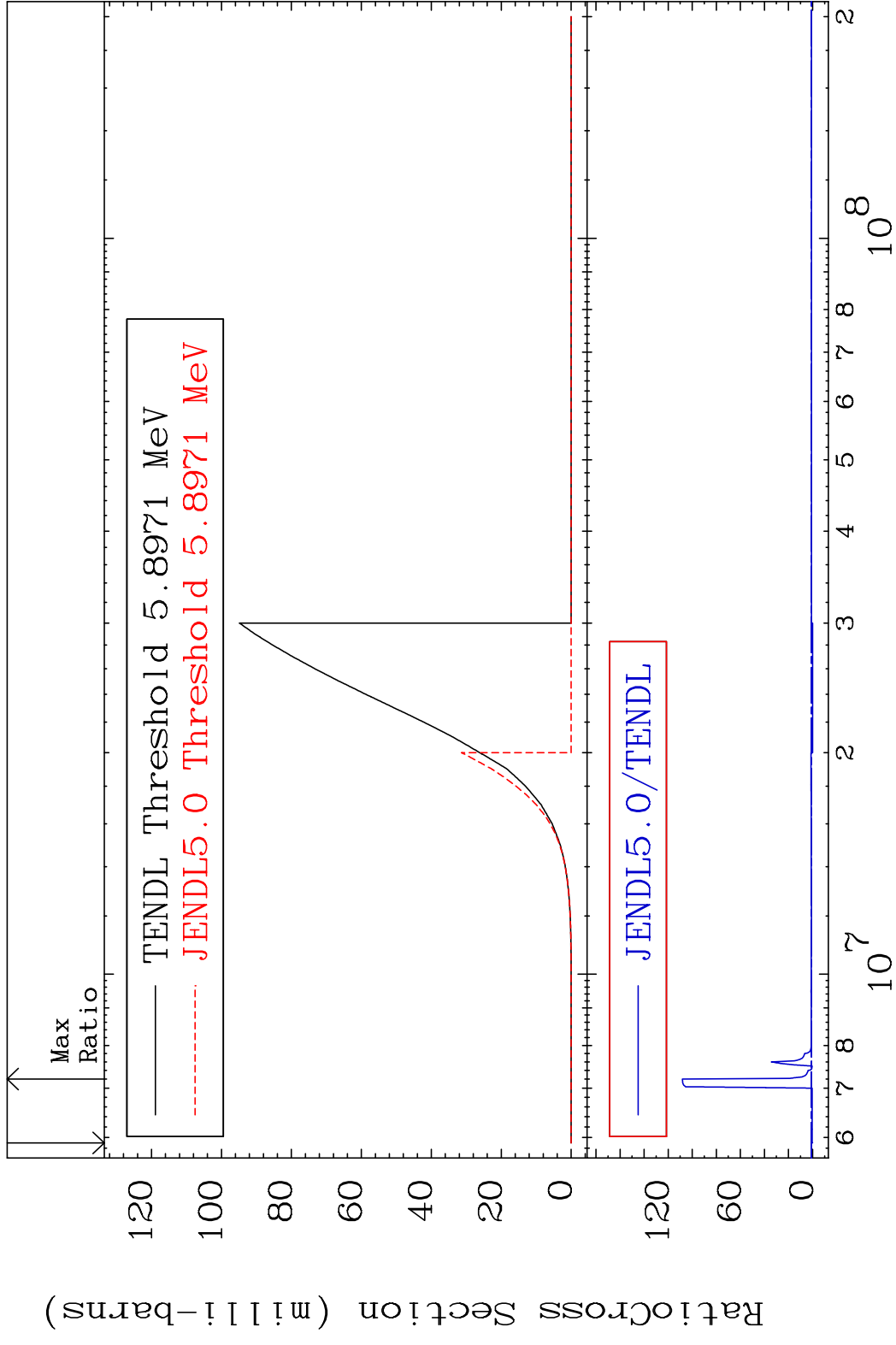


MAT 7219

(n, n') p

72-Hf-172

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

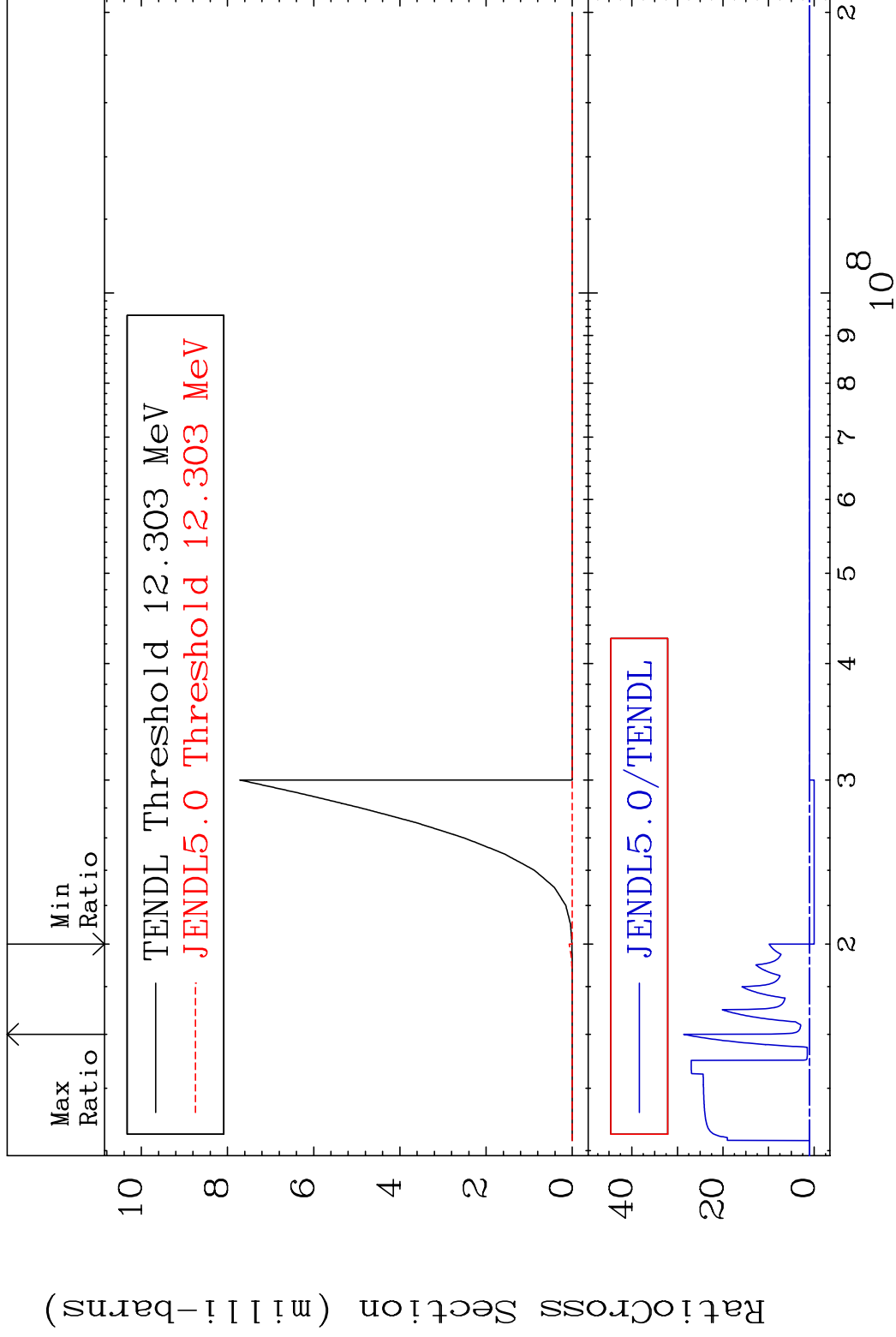
72-Hf-172

MAT 7219

(n, n') d

72-Hf-172

Cross Section -100.0 To 2763. %

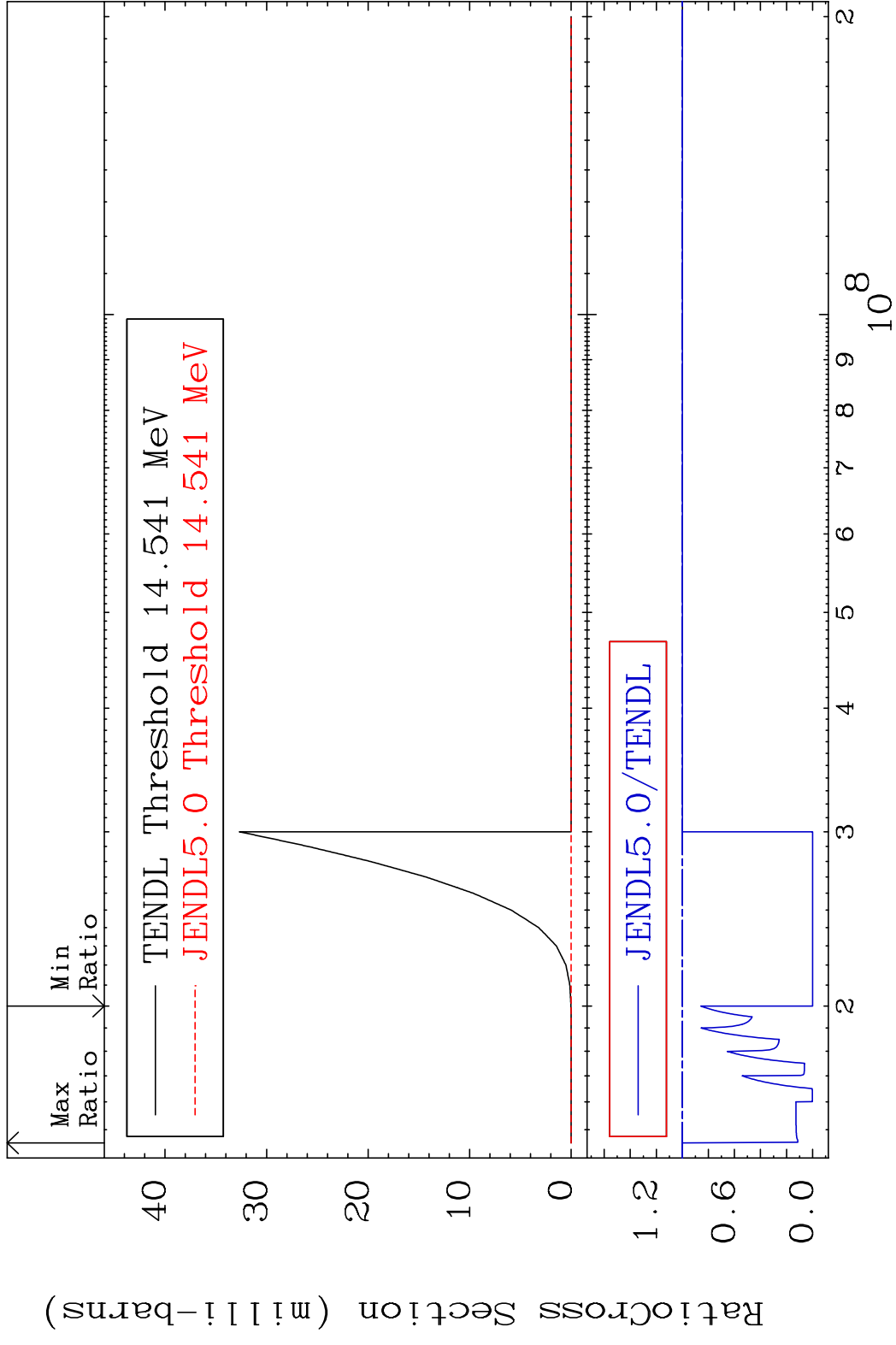


10

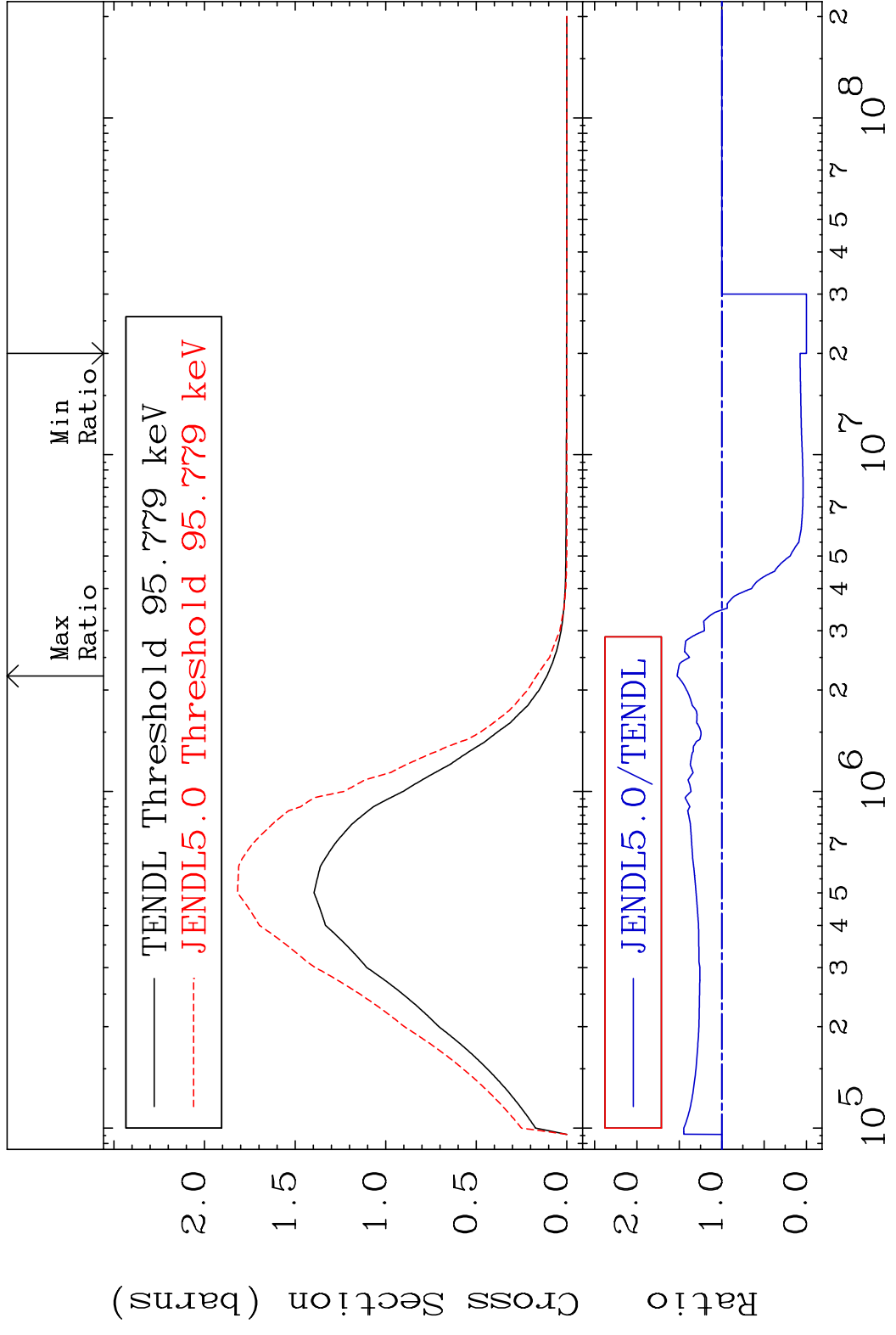
Incident Energy (eV)

72-Hf-172

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

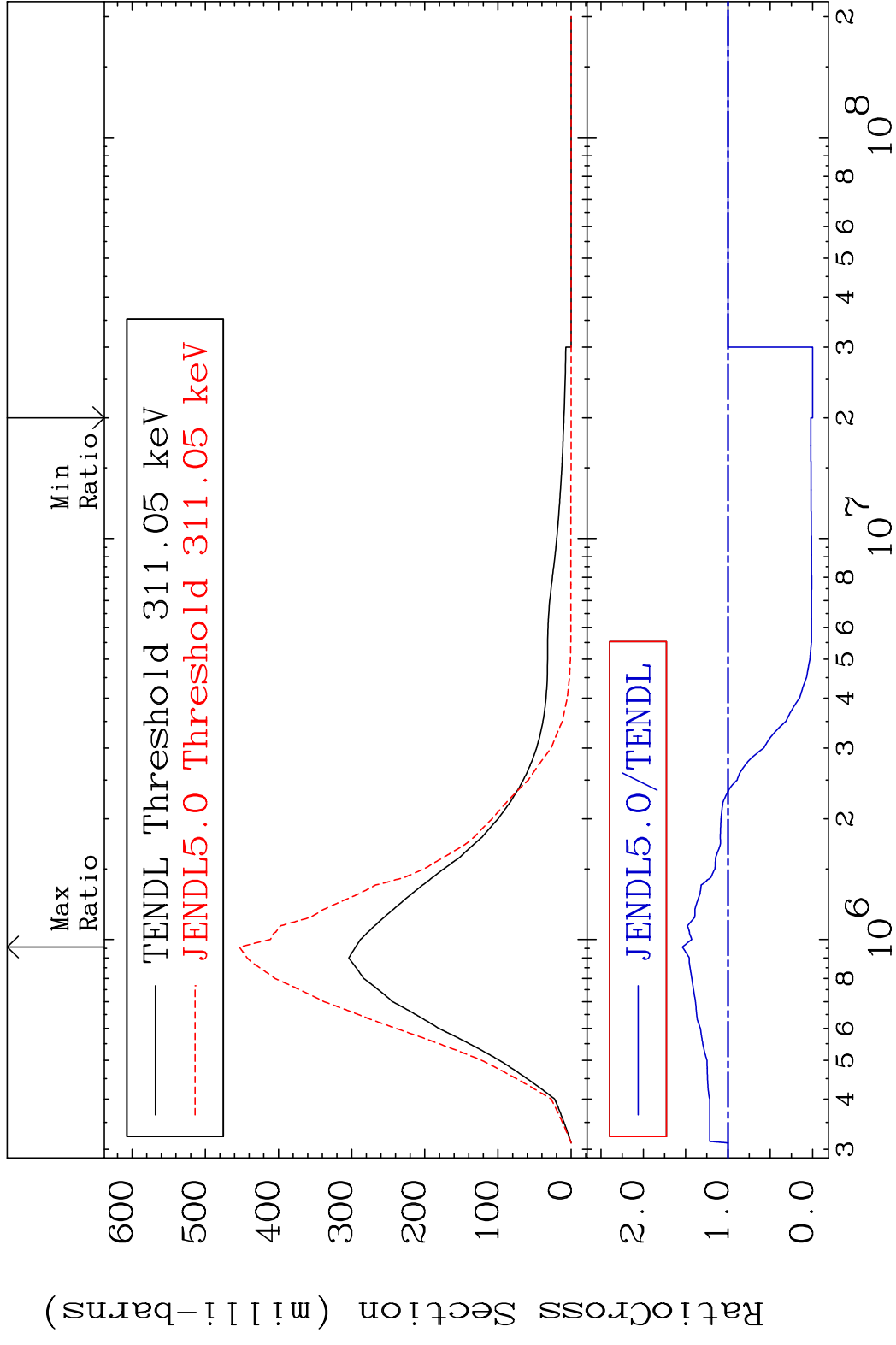


MAT 7219 MT= 51 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 52.57 %

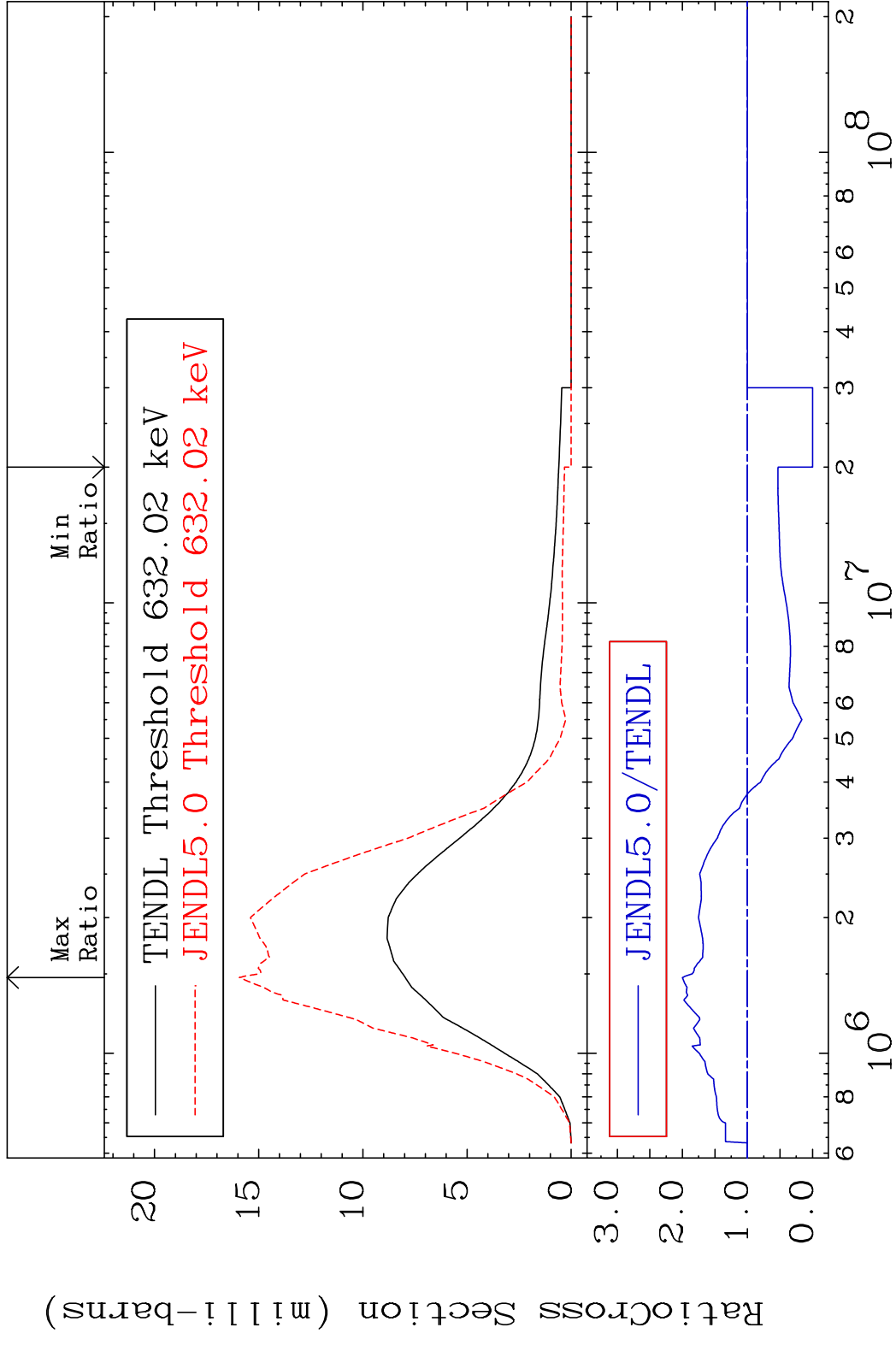


12 Incident Energy (eV) 72-Hf-172

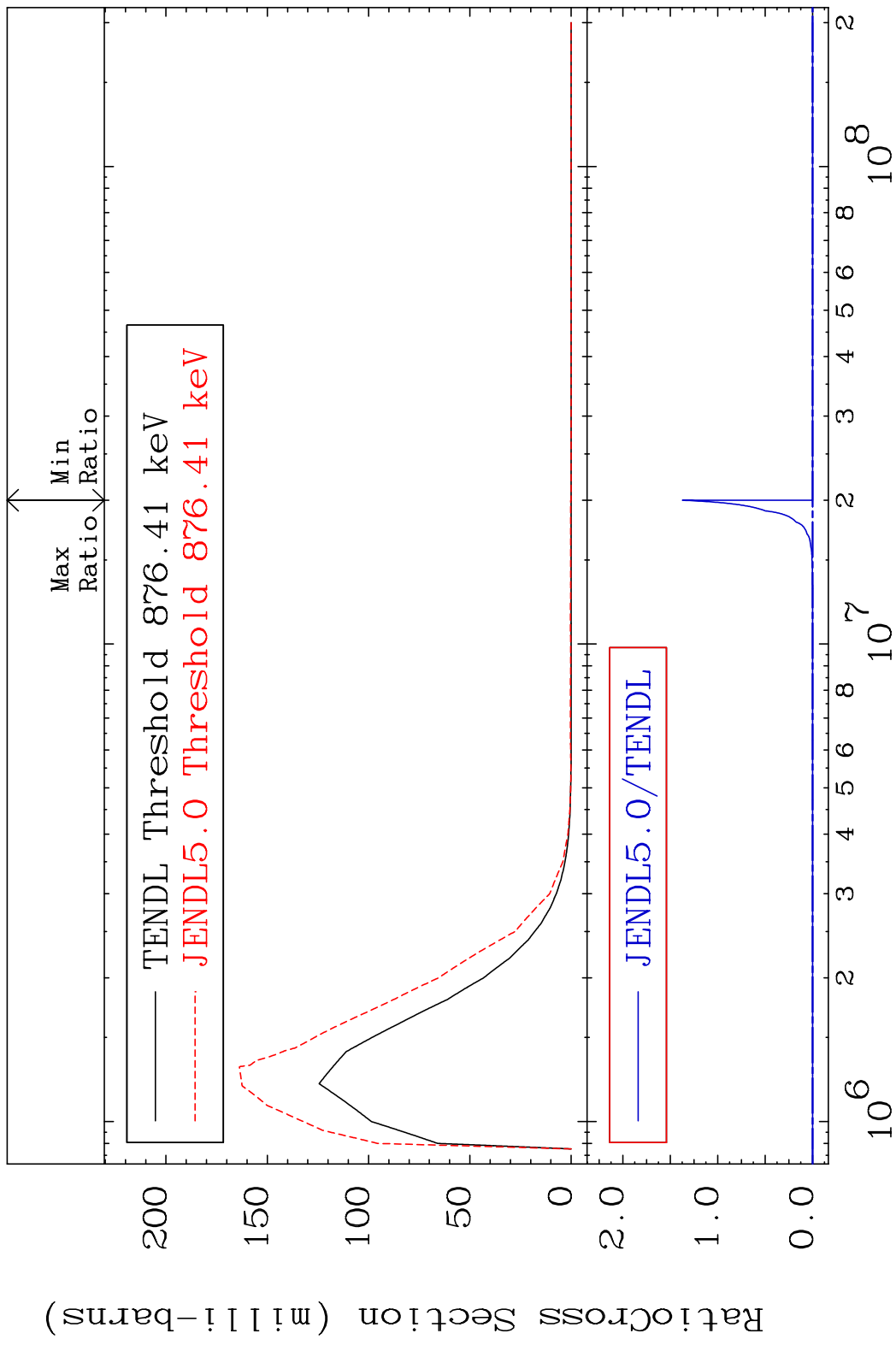
MAT 7219 MT= 52 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 53.91 %



MAT 7219 MT= 53 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 100.1 %

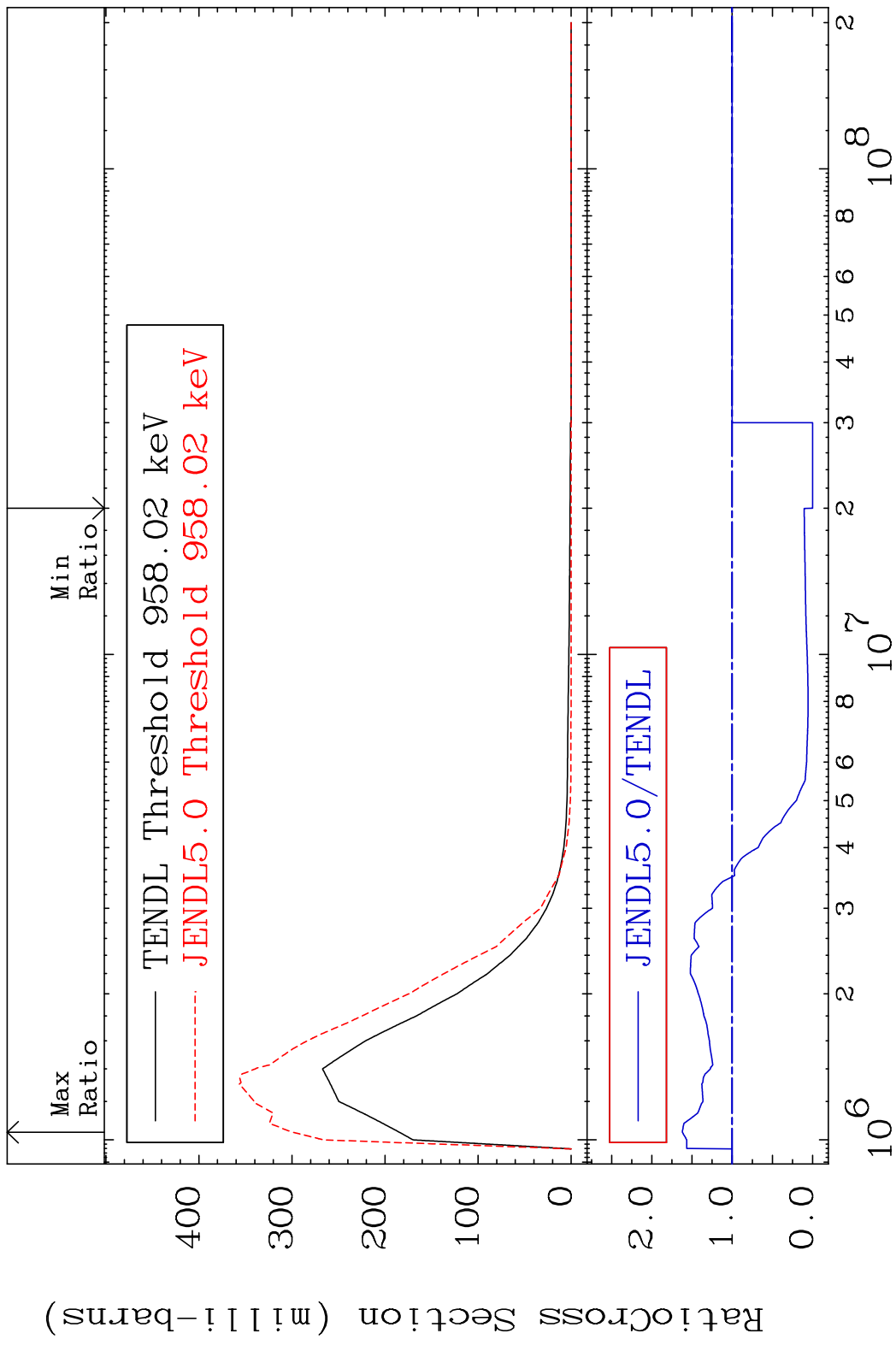


MAT 7219 MT= 54 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



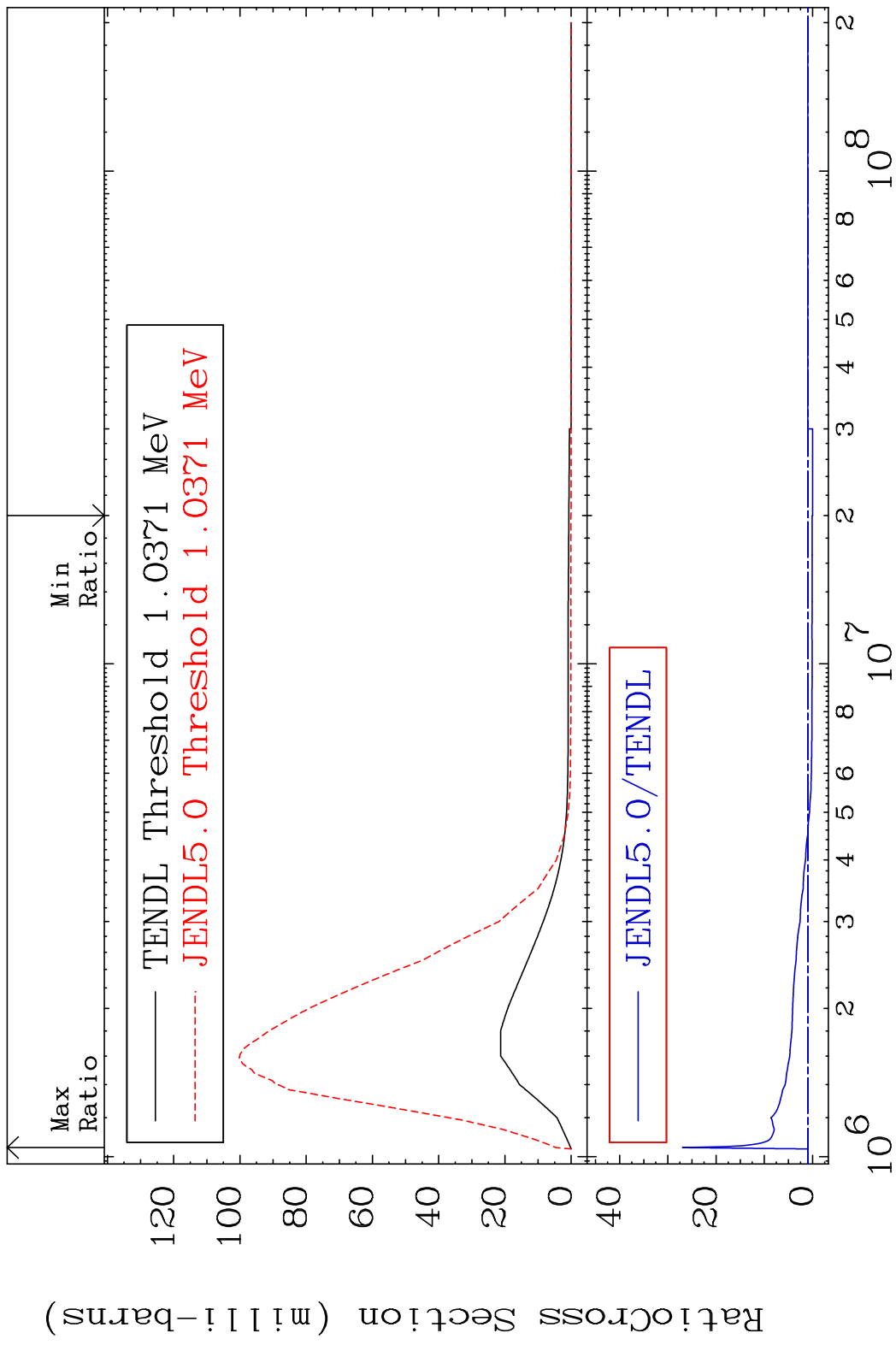
15 Incident Energy (eV) 72-Hf-172

MAT 7219 MT= 55 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 62.03 %



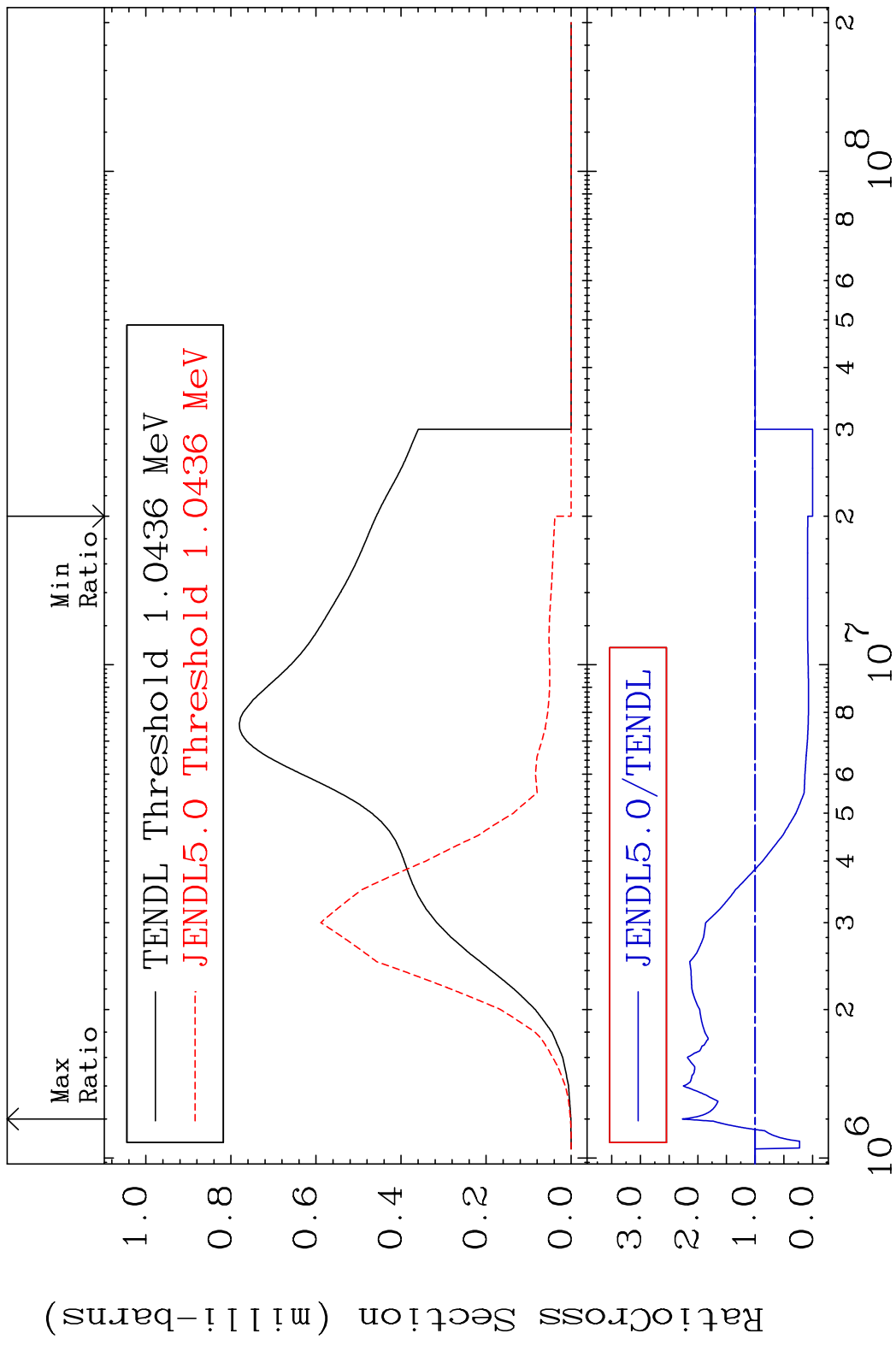
16 Incident Energy (eV) 72-Hf-172

MAT 7219 MT= 56 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 2600. %

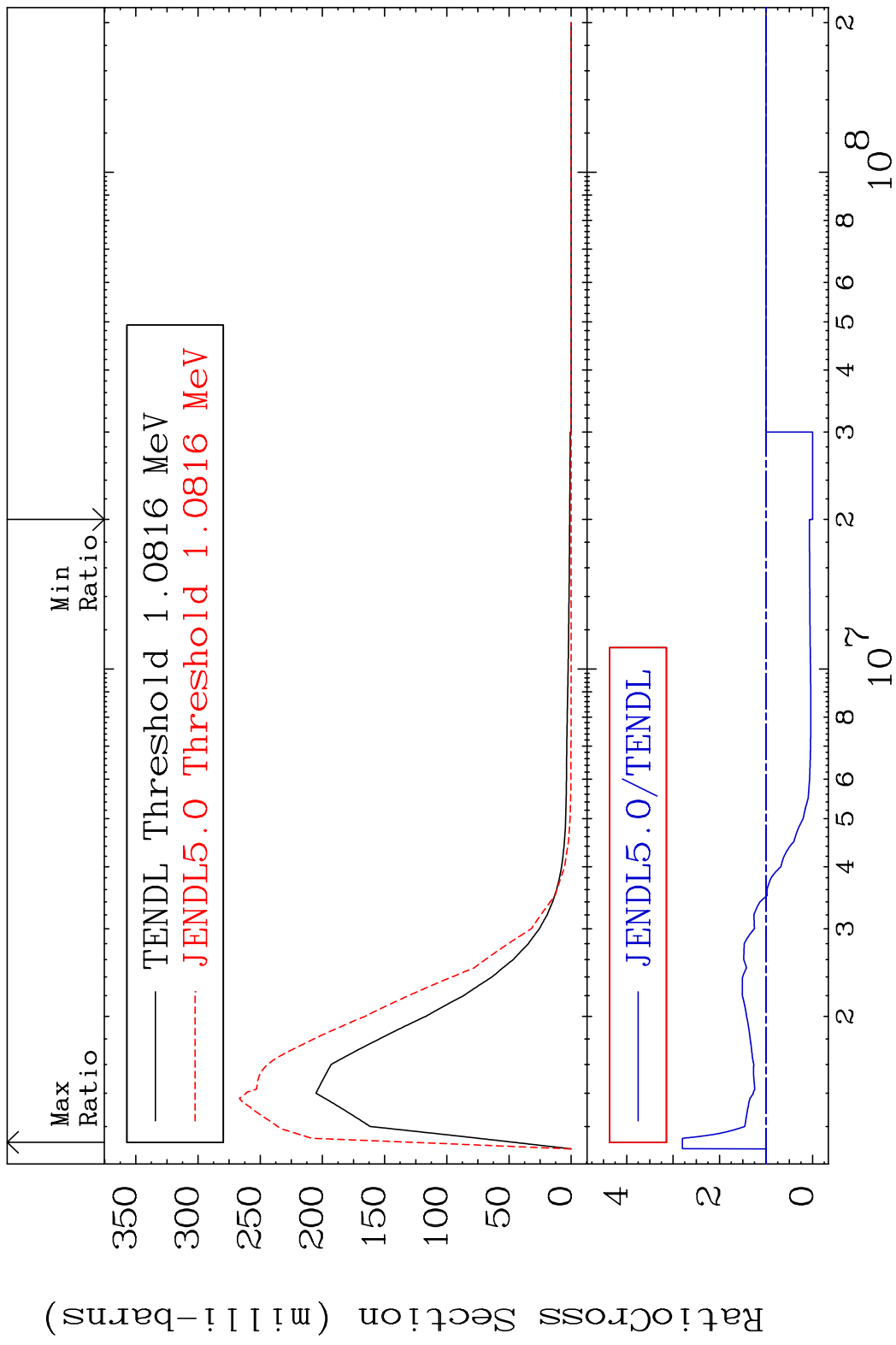


17 Incident Energy (eV) 72-Hf-172

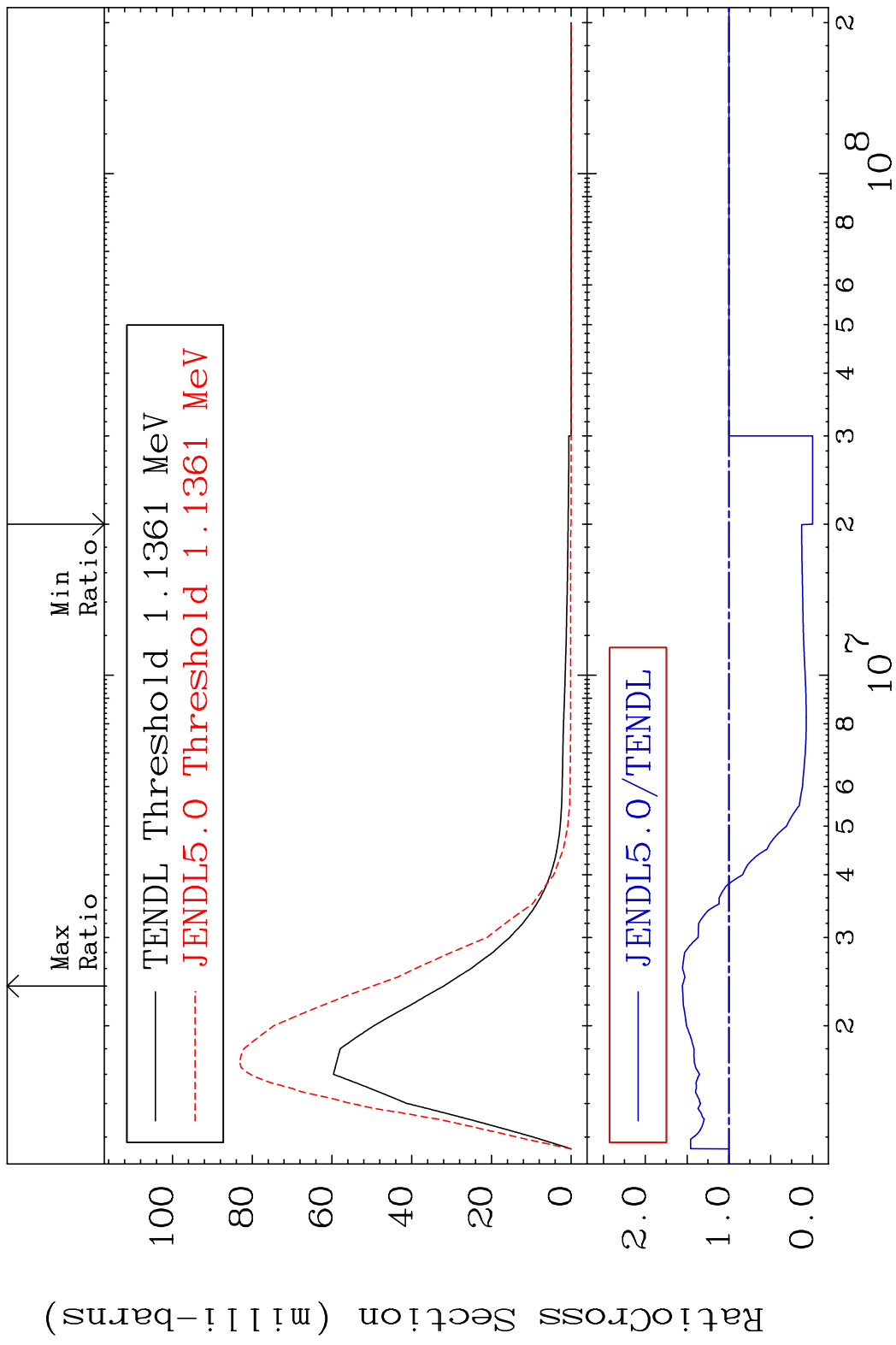
MAT 7219 MT= 57 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 126.9 %



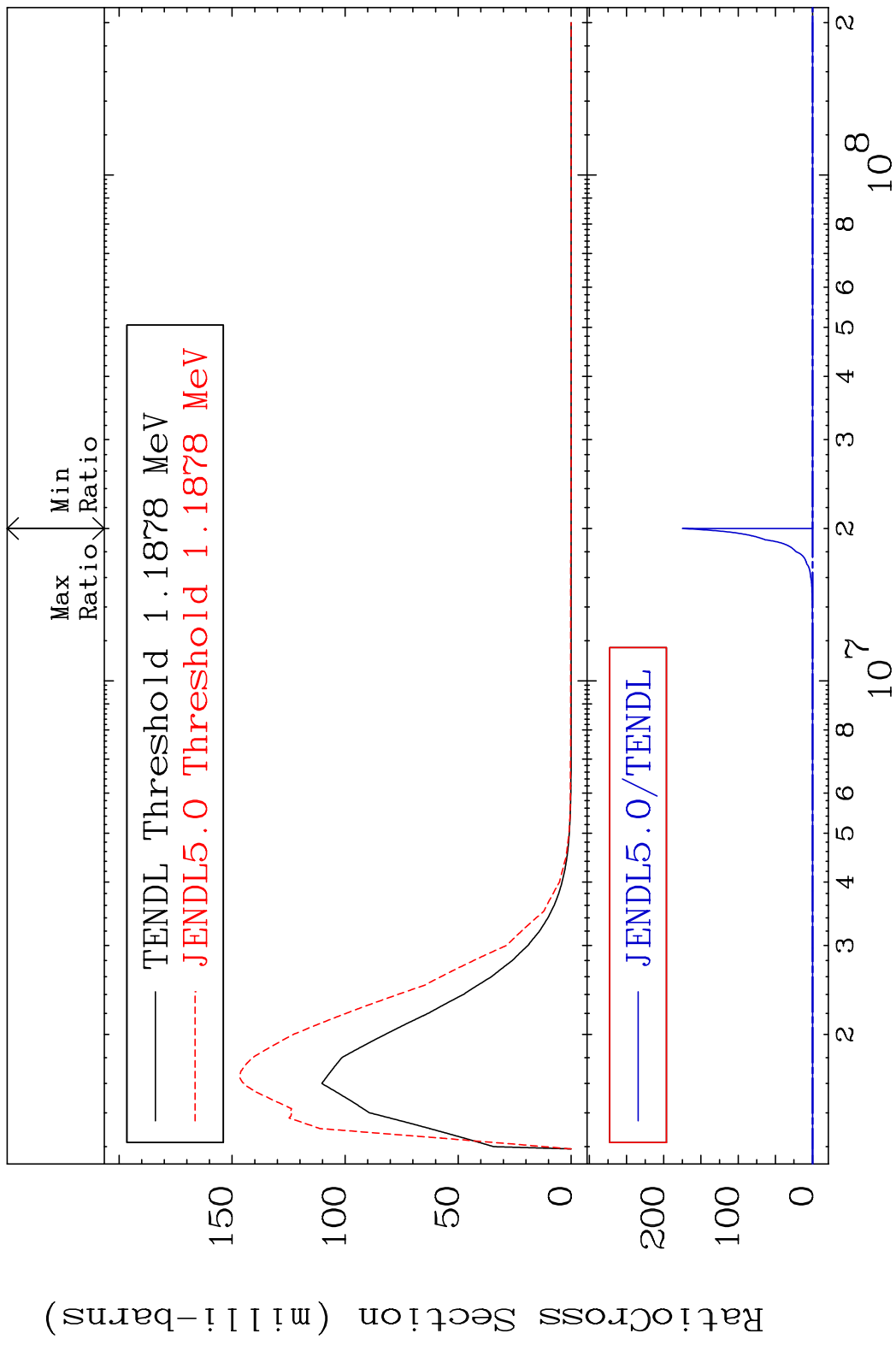
MAT 7219 MT= 58 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 180.1 %



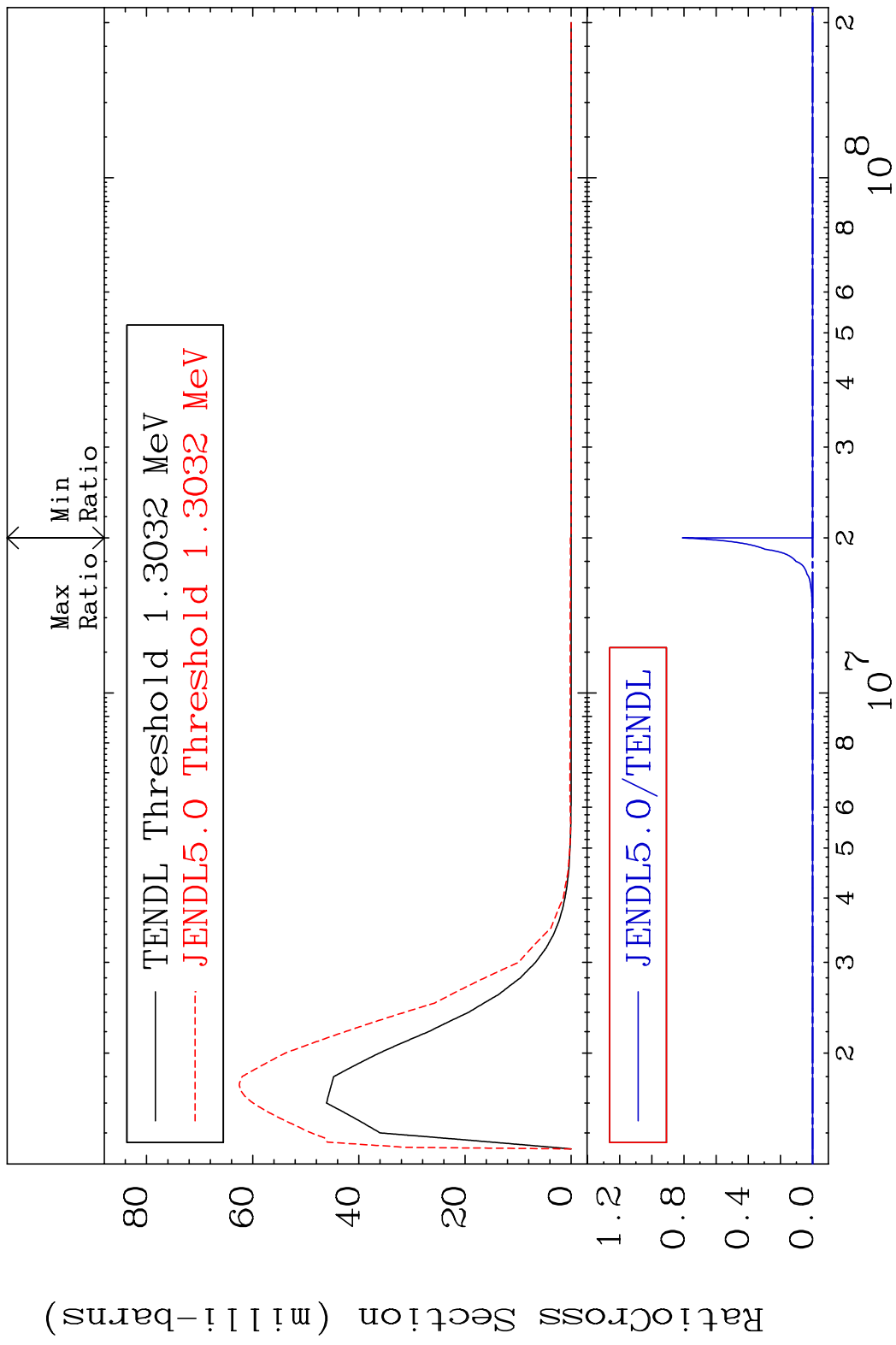
MAT 7219 MT= 59 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 55.67 %



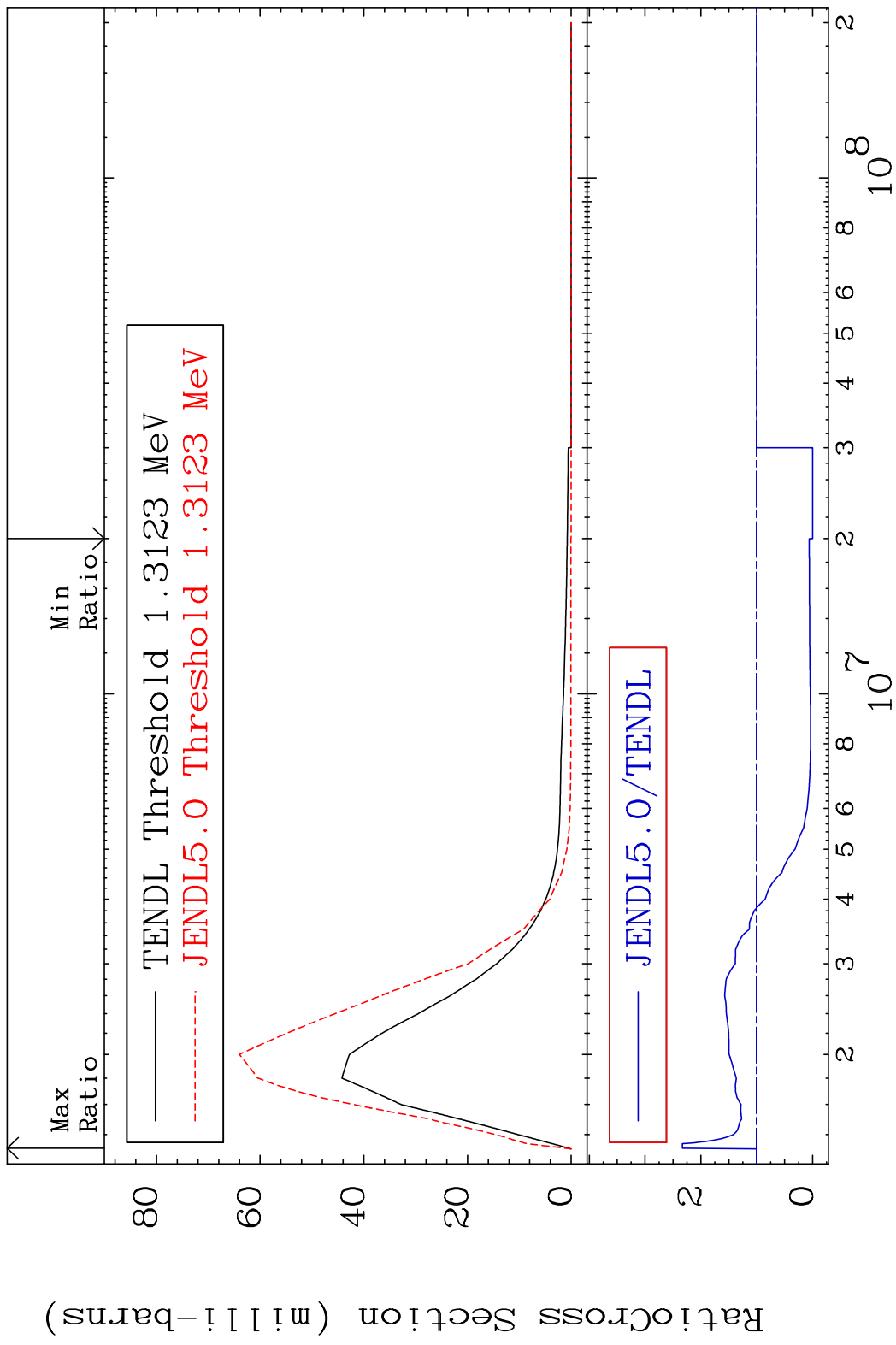
MAT 7219 MT= 60 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



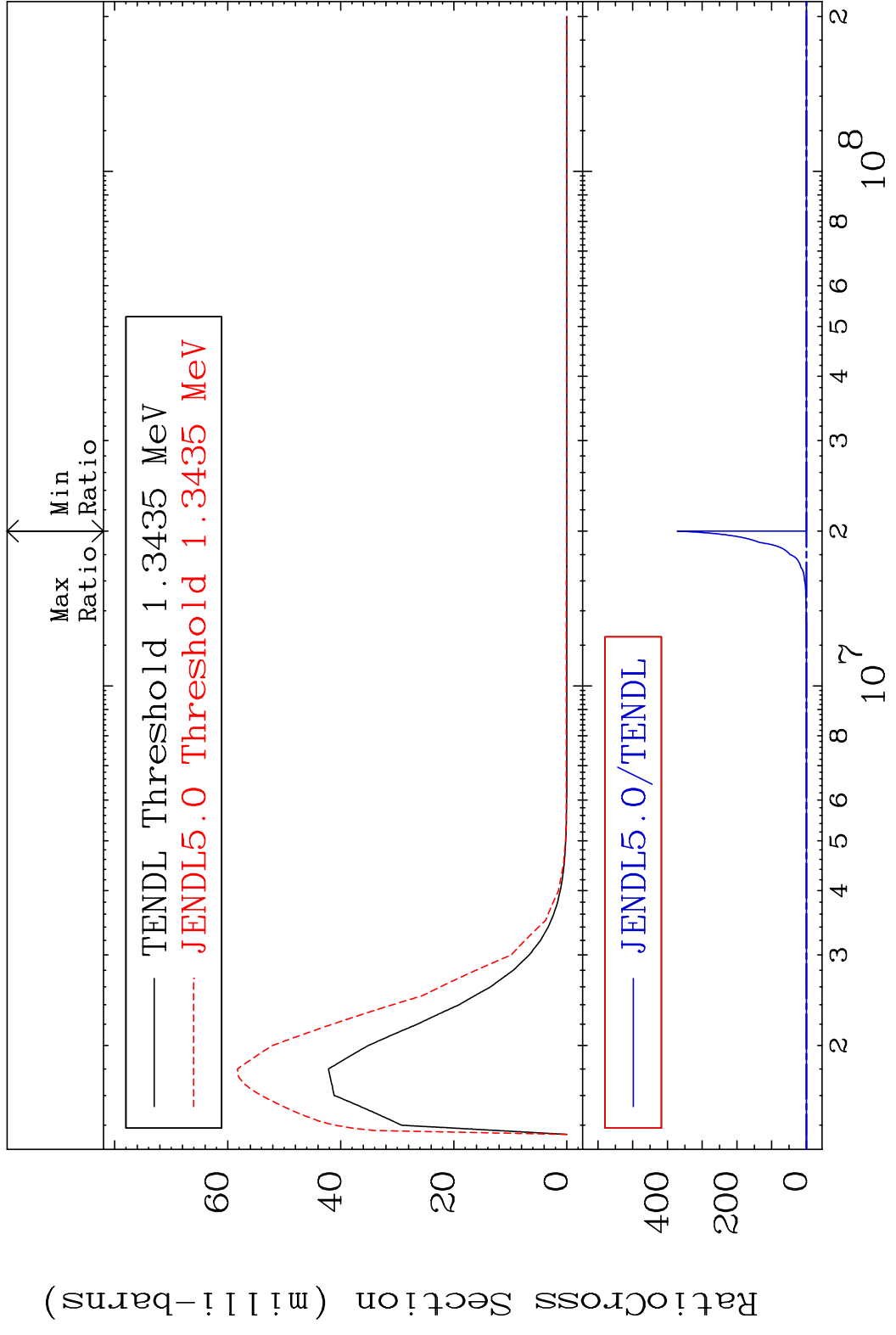
MAT 7219 MT= 61 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



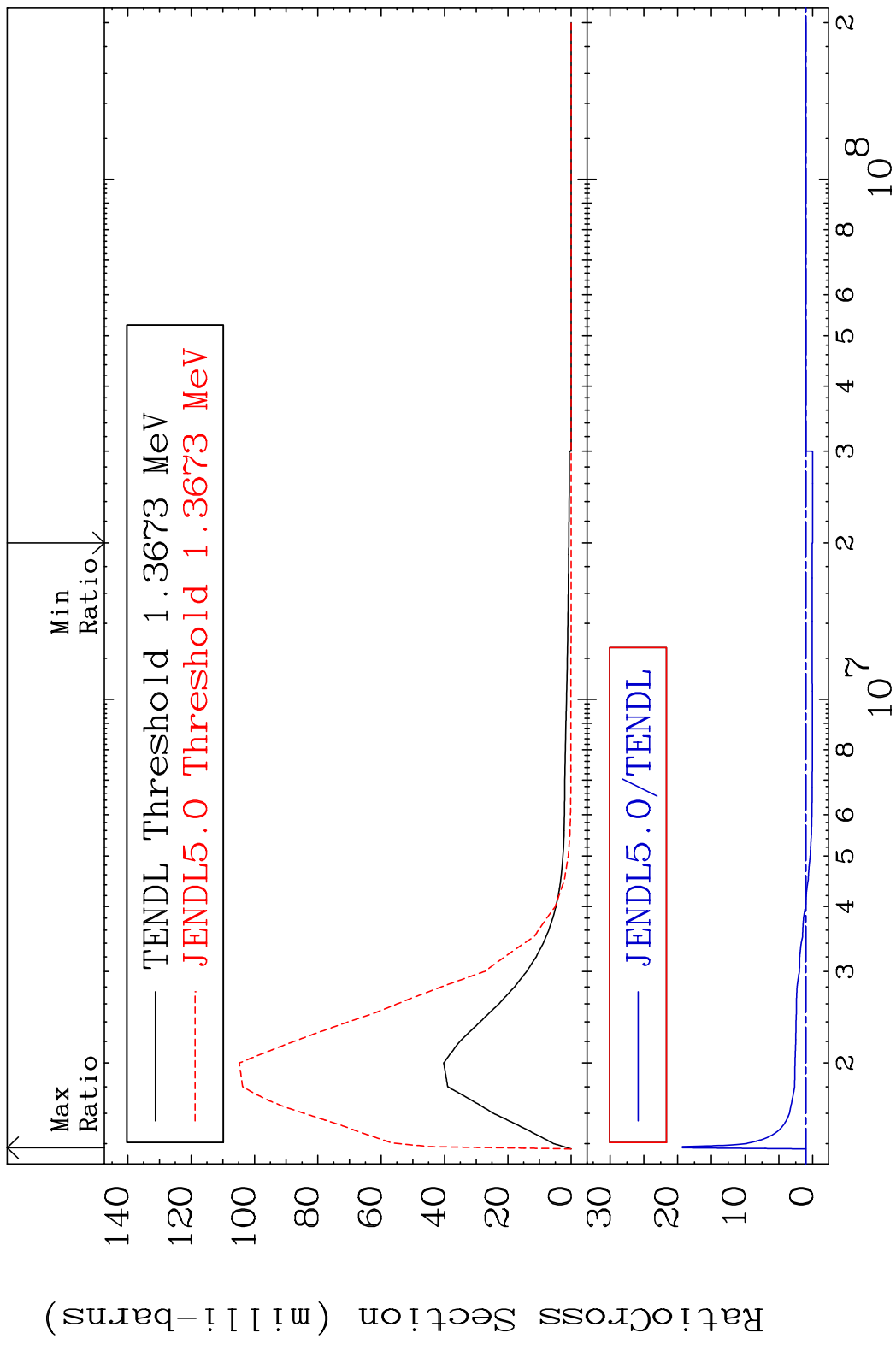
MAT 7219 MT= 62 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 133.2 %



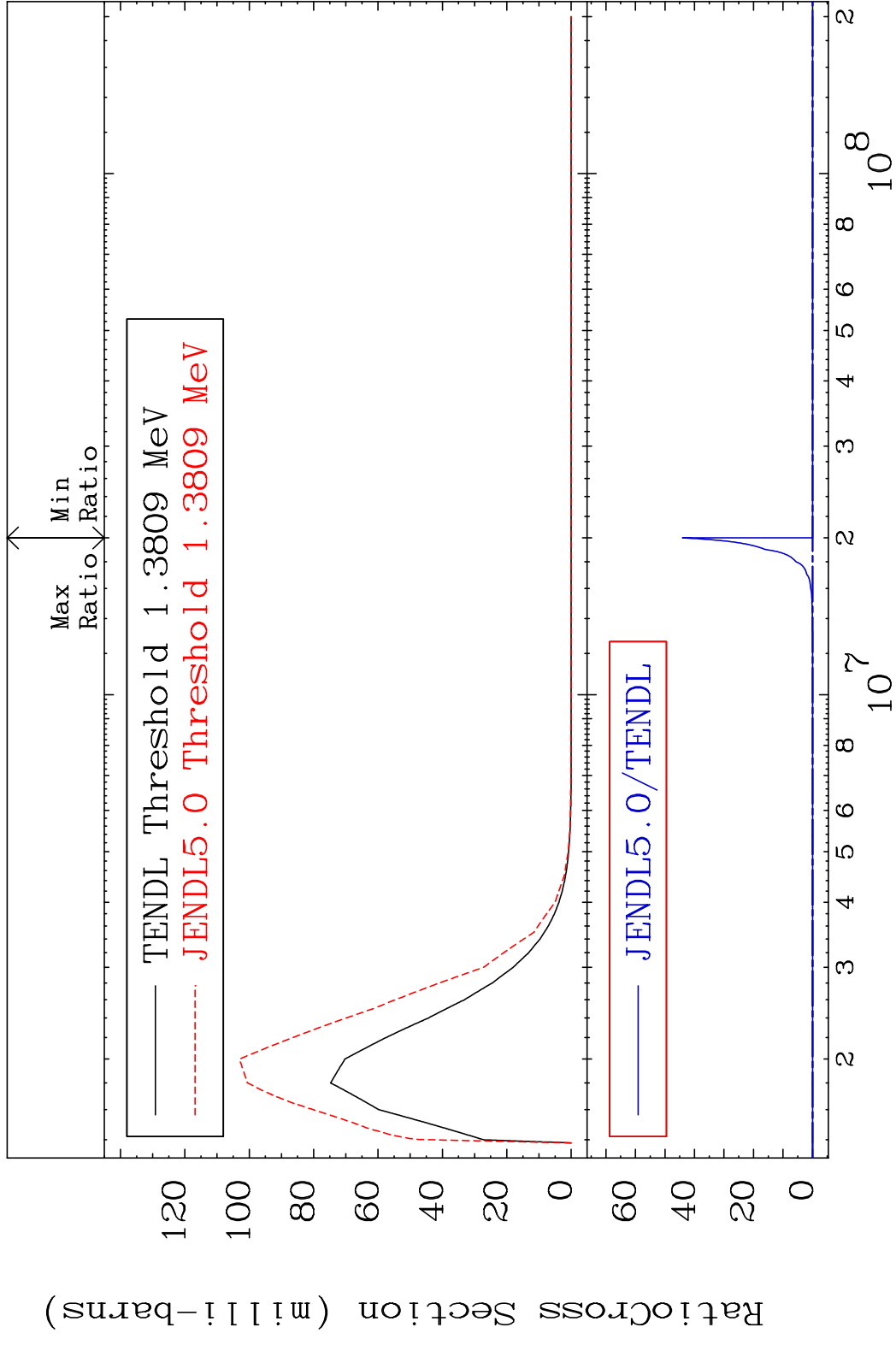
MAT 7219 MT= 63 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 9999. %



MAT 7219 MT= 64 (n, n') Level 72-Hf-172
 Cross Section -100.0 To 1829. %



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

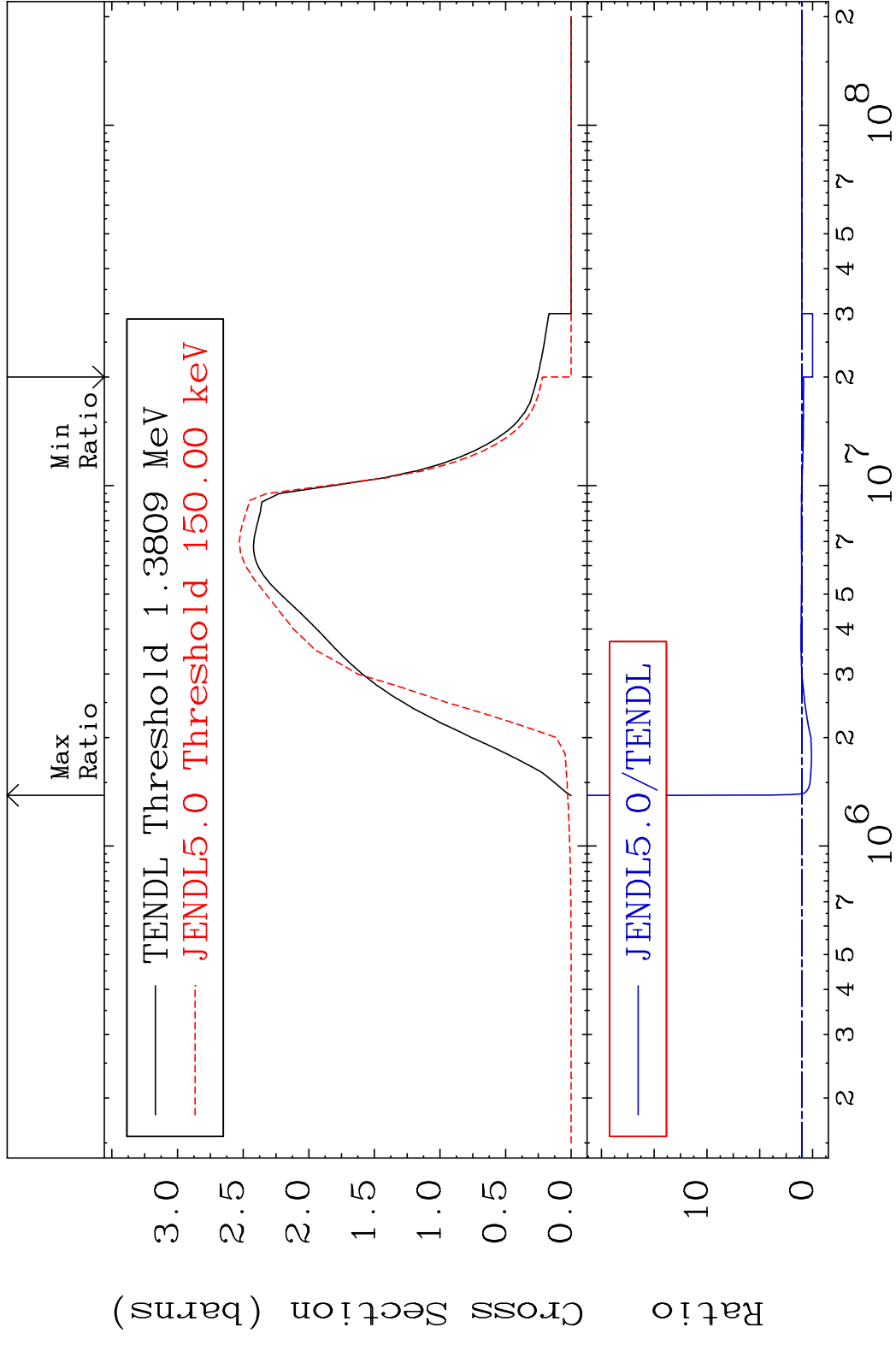


MAT 7219

(n, n') Continuum

72-Hf-172

Cross Section -100.0 To 1133. %

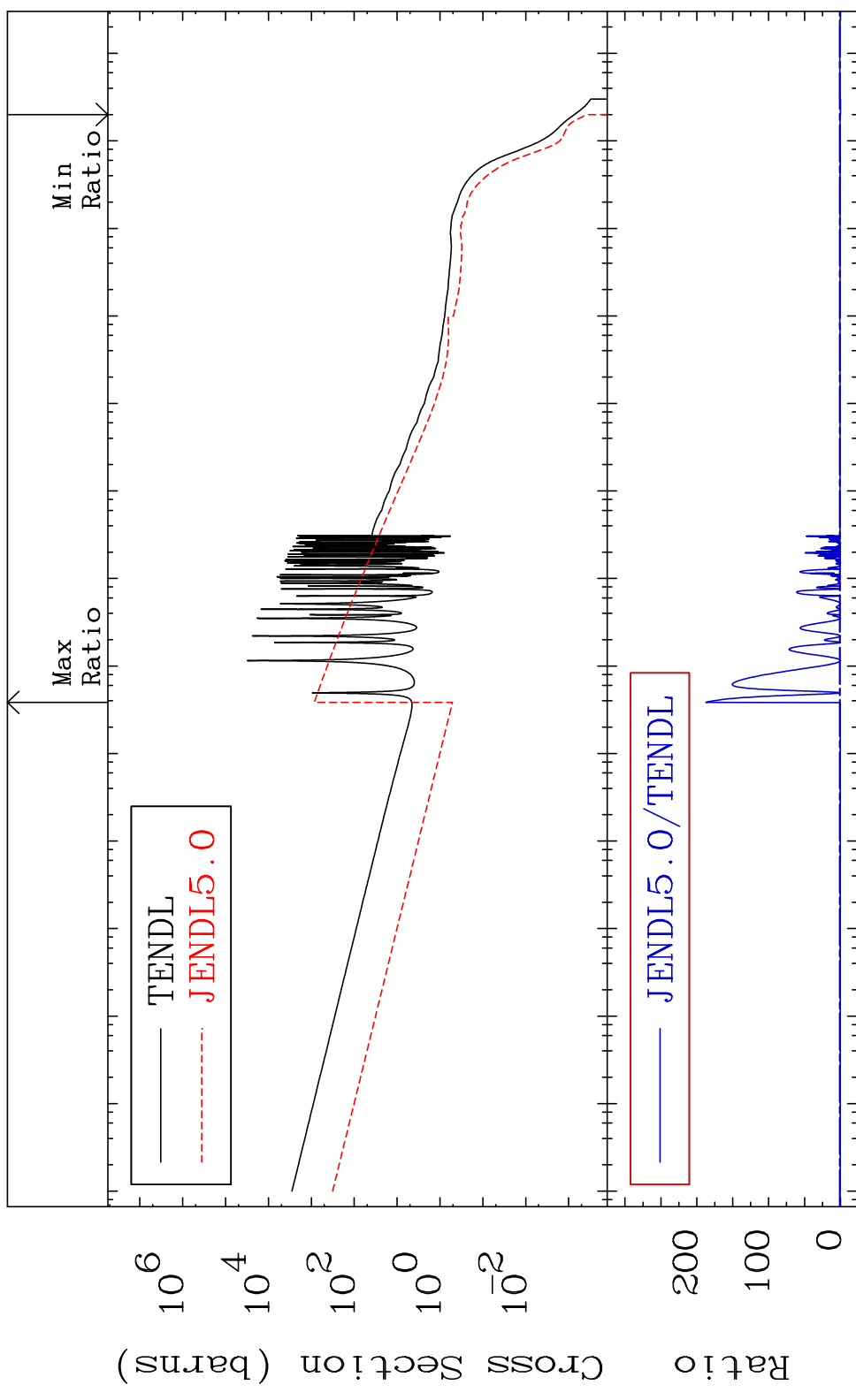


MAT 7219

(n, γ)

72-Hf-172

Cross Section -100.0 To 9999. %

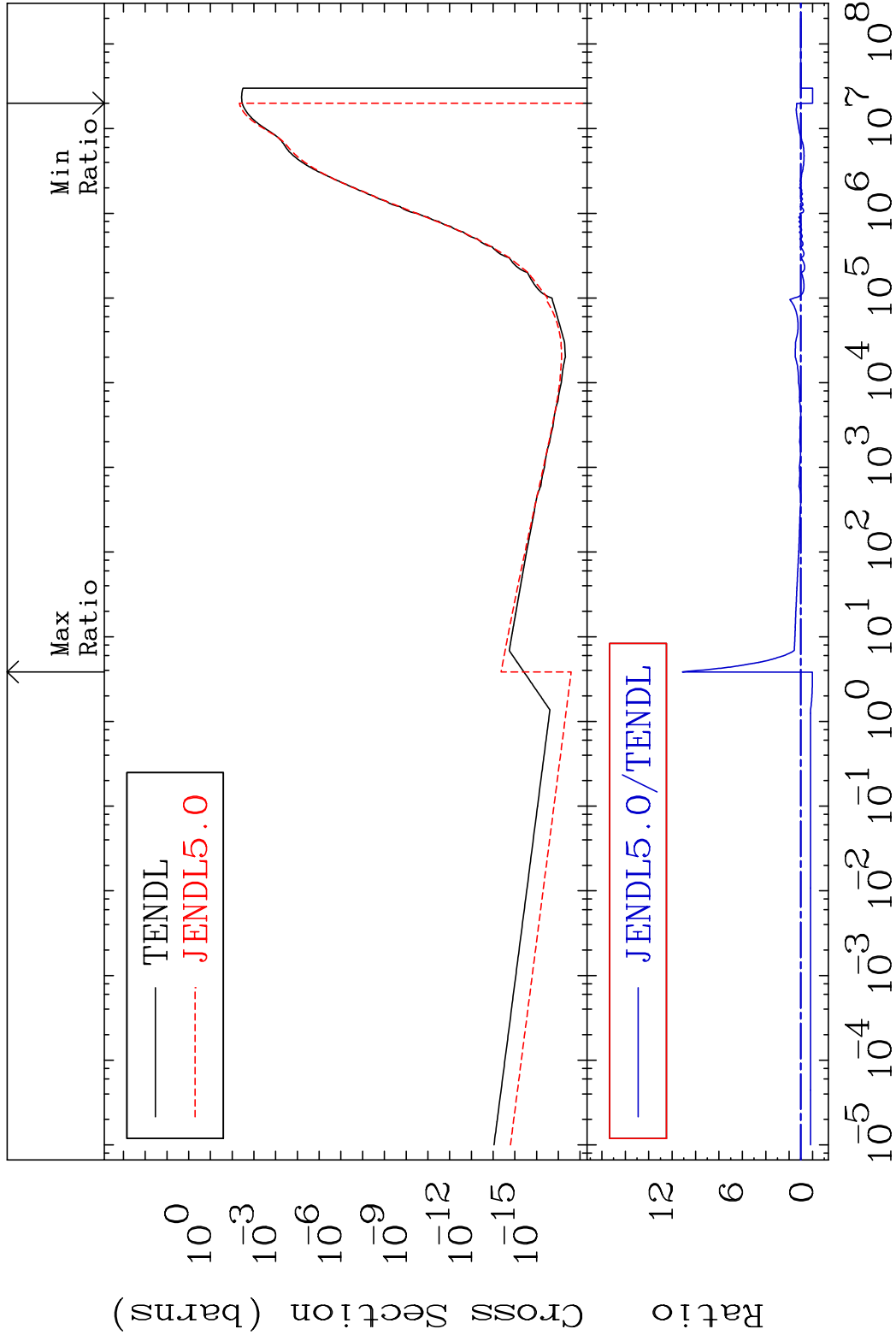


MAT 7219

(n,p)

72-Hf-172

Cross Section -100.0 To 1013. %



29

Incident Energy (eV)

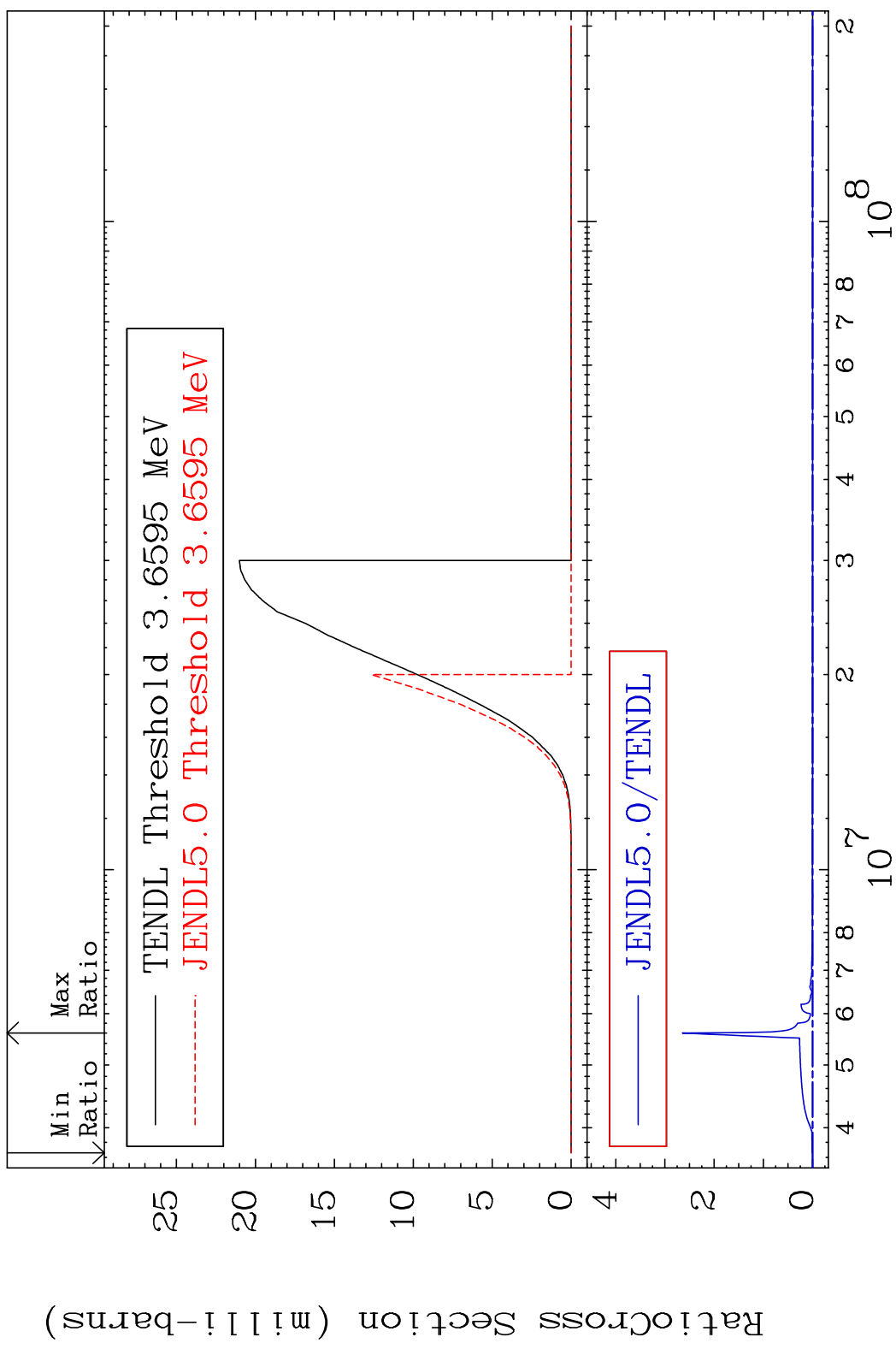
72-Hf-172

MAT 7219

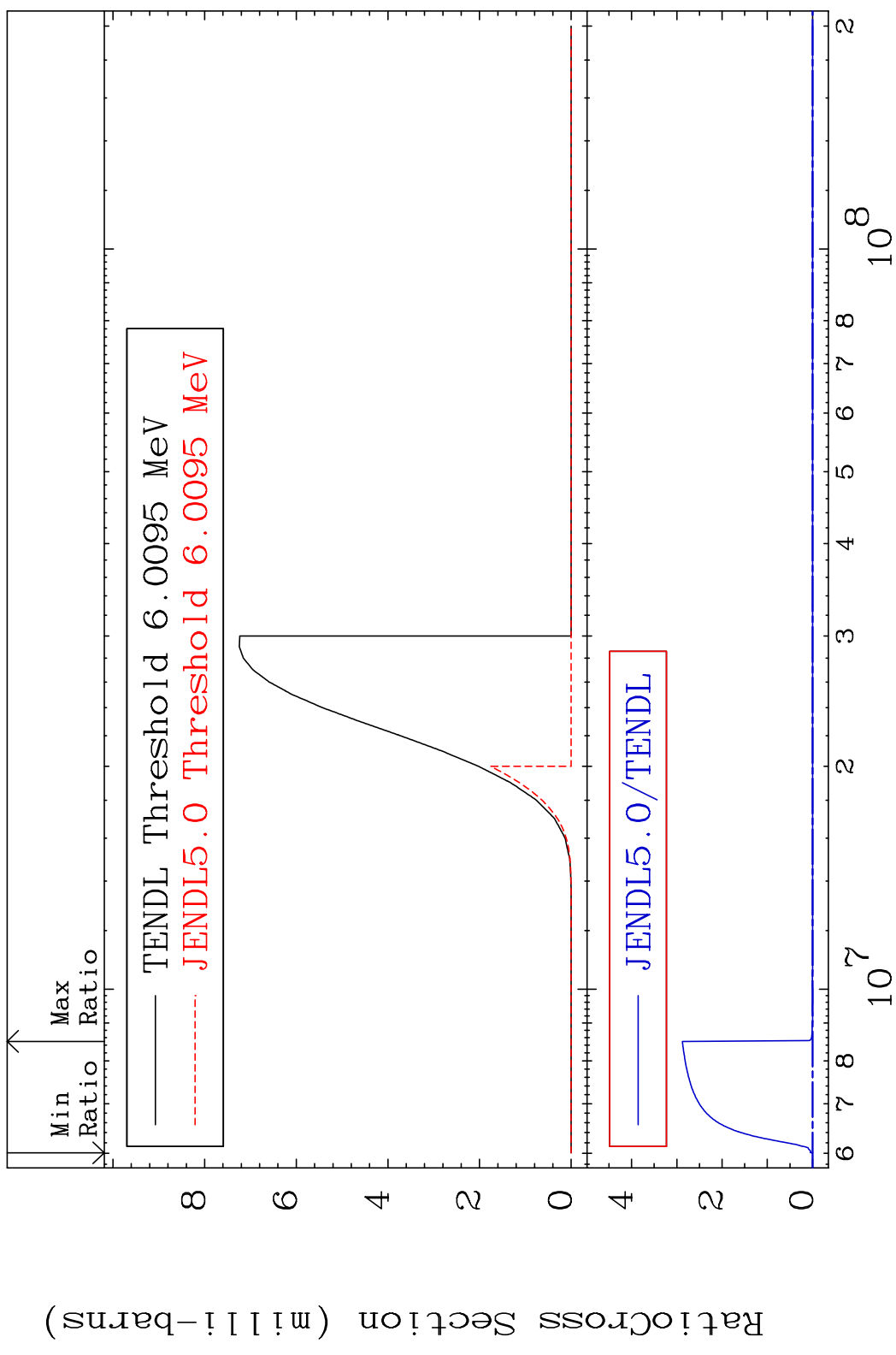
(n,d)

72-Hf-172

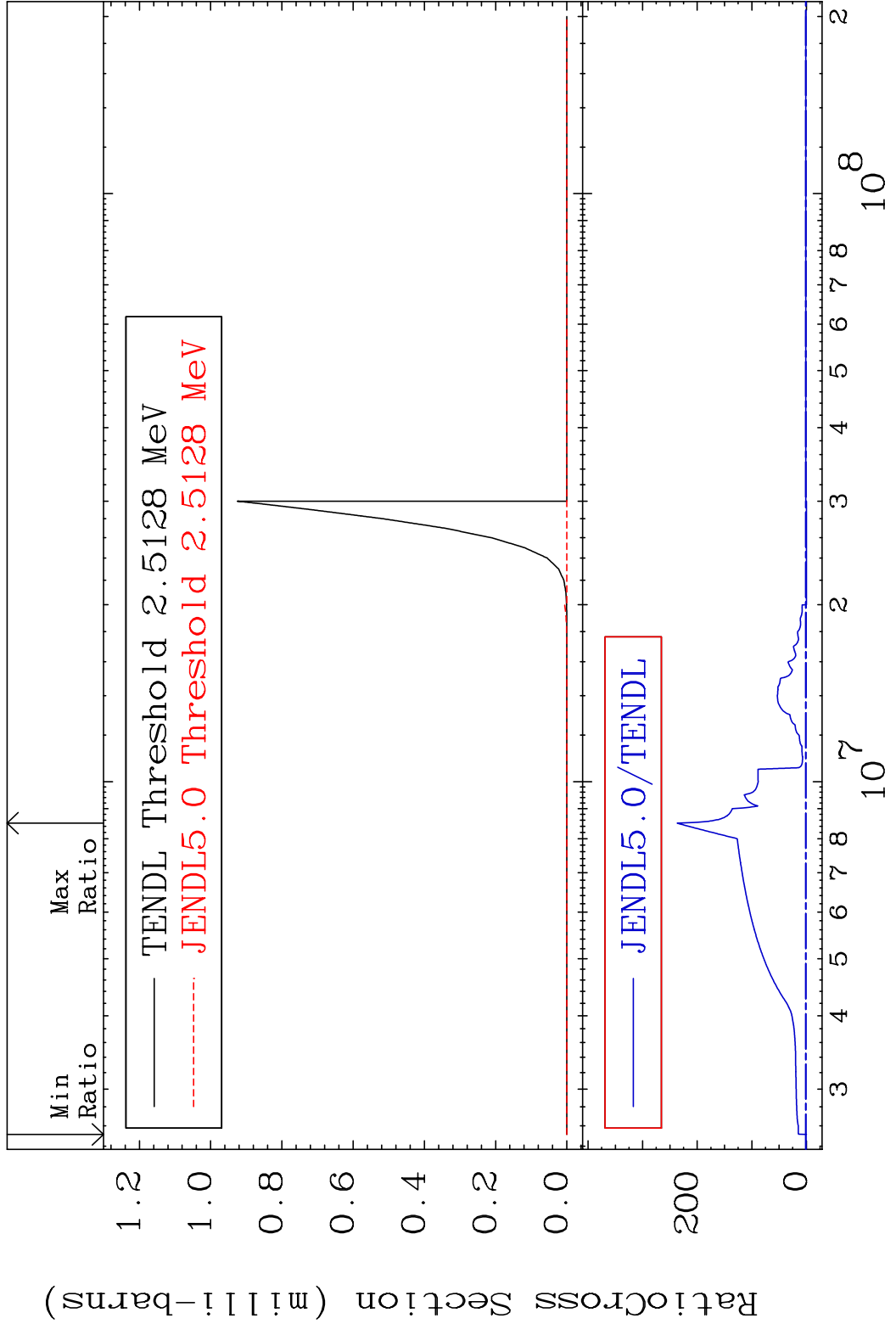
Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %



MAT 7219 (n, He-3) 72-Hf-172
 Cross Section -100.0 To 9999. %

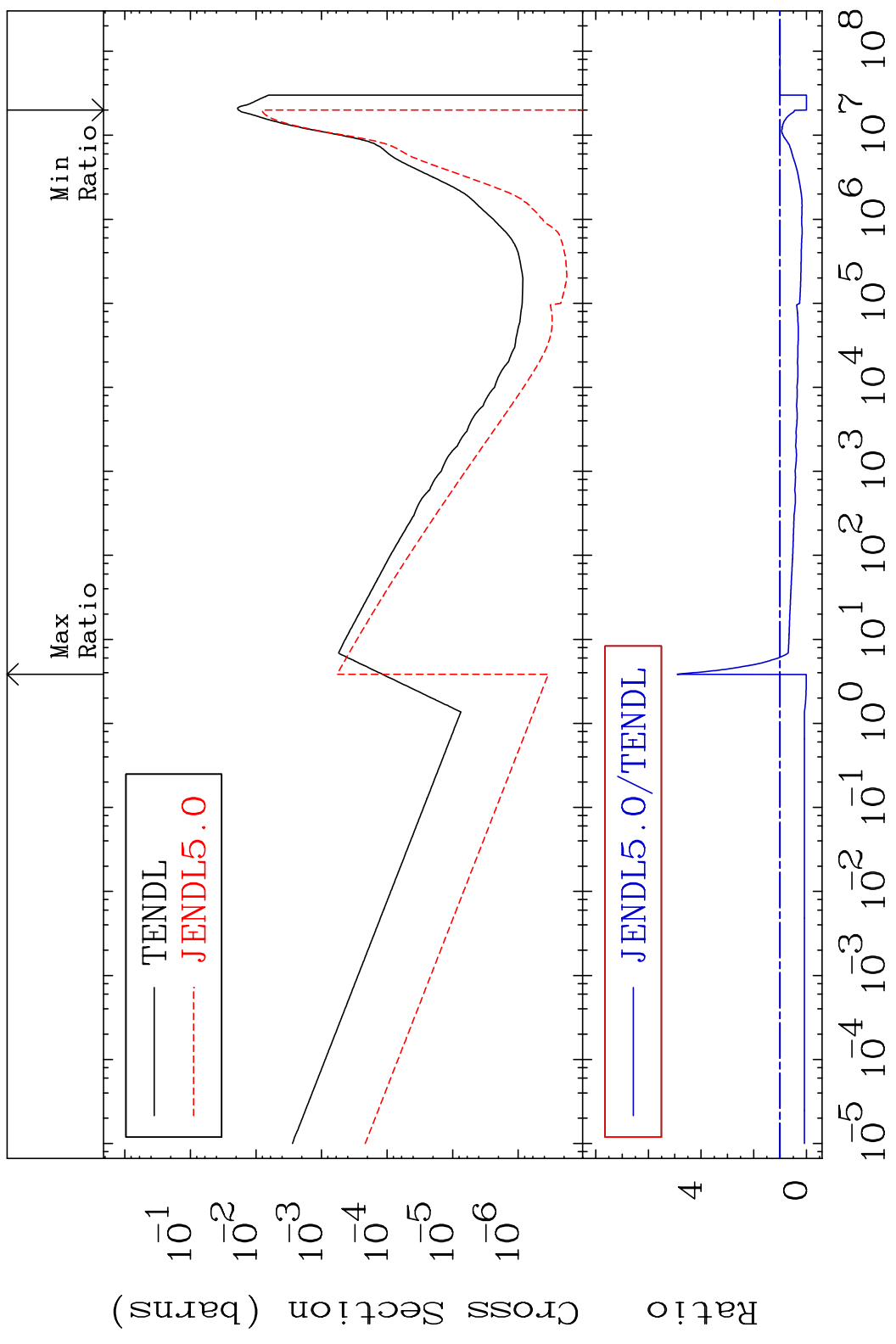


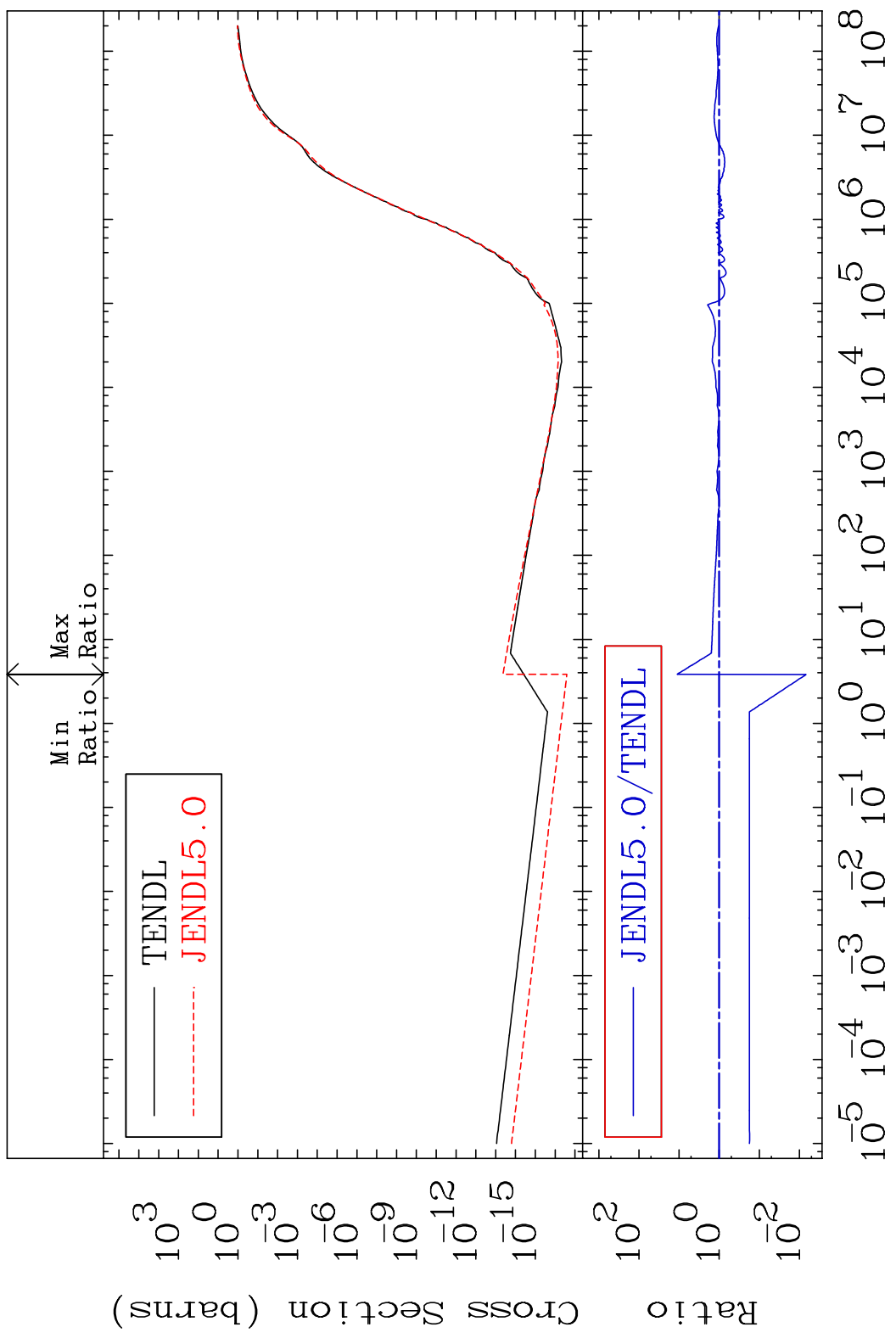
MAT 7219

(n, α)

72-Hf-172

Cross Section -100.0 To 390.8 %



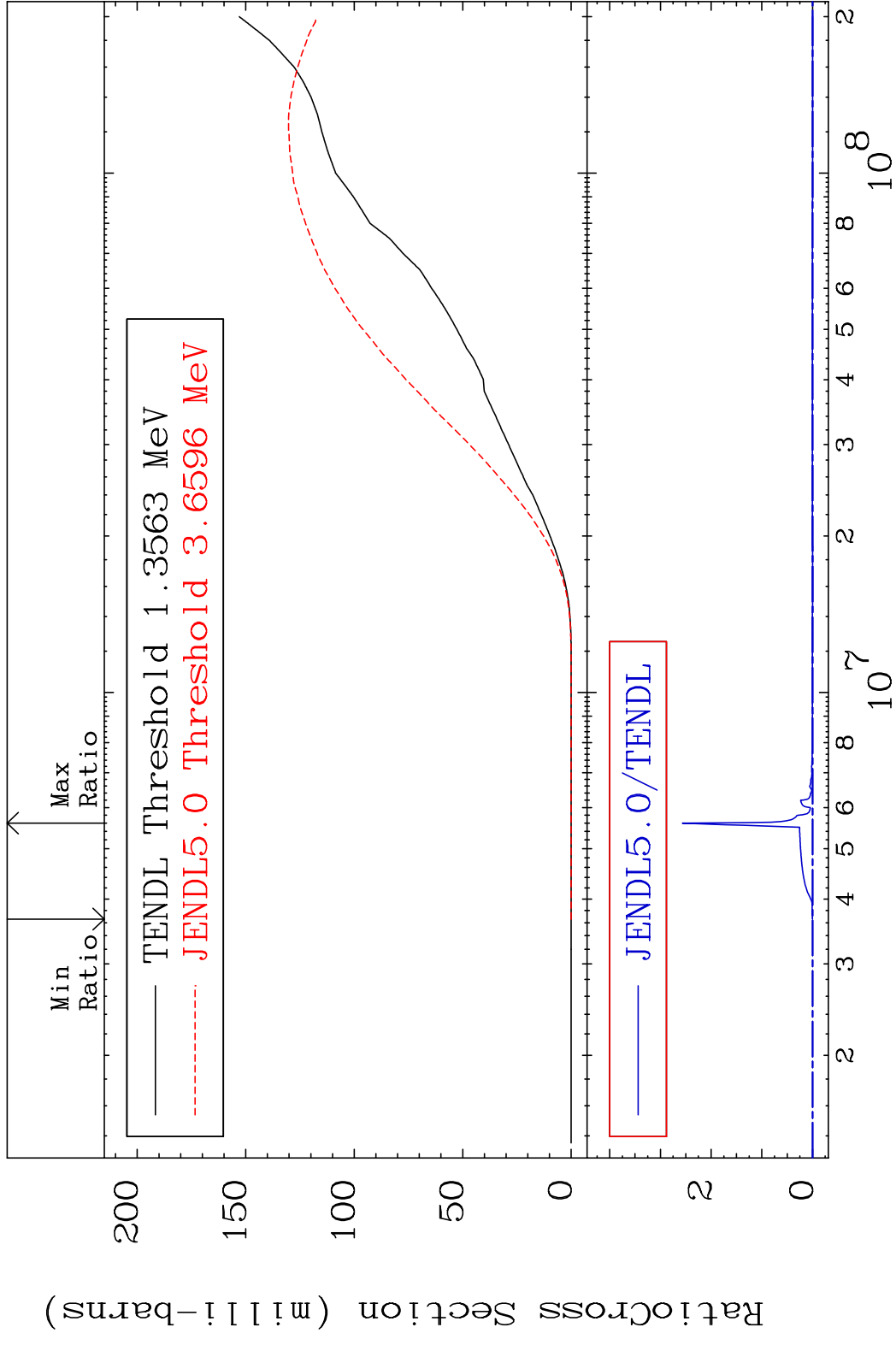


MAT 7219

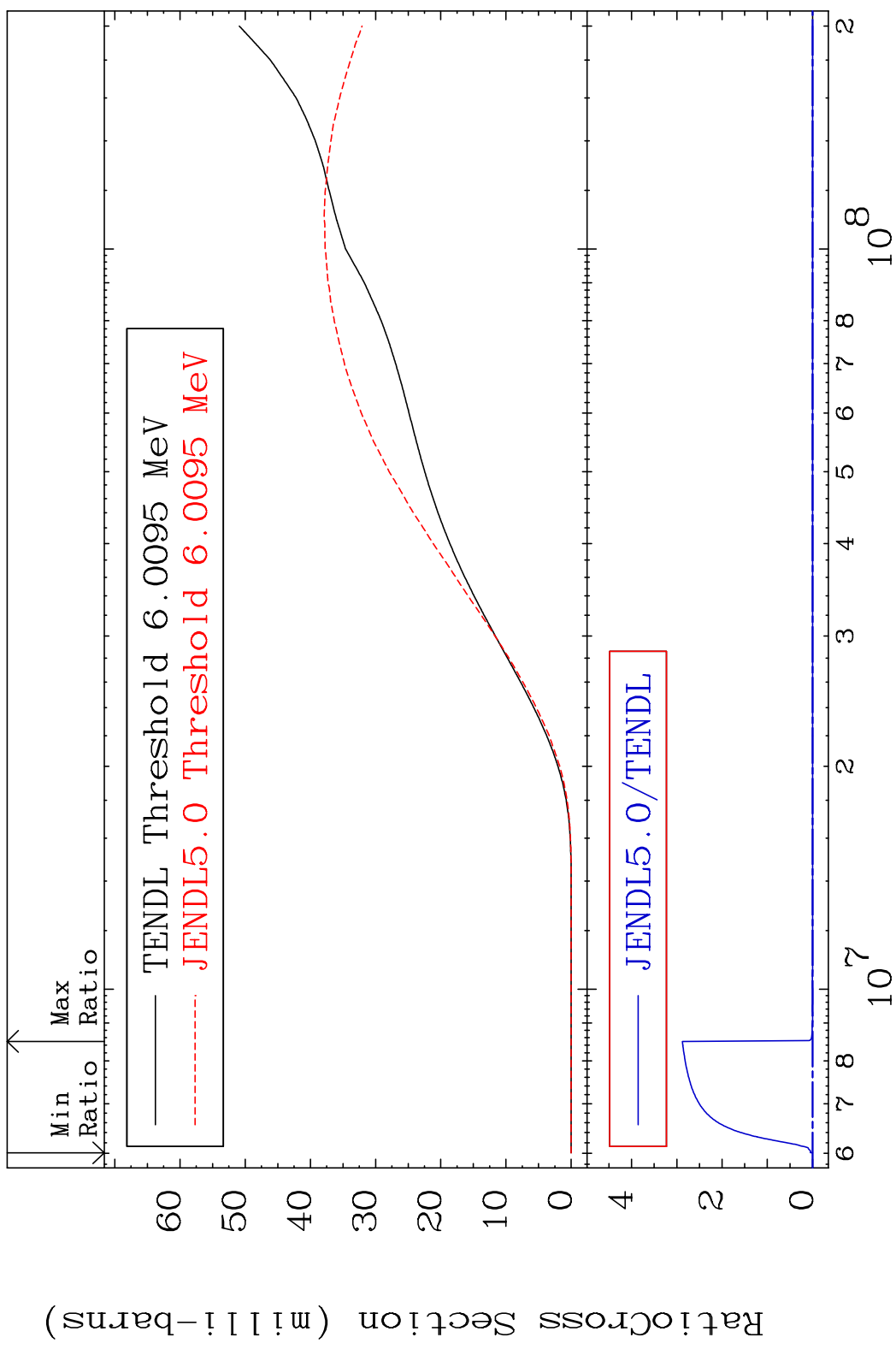
Deuterium Production

72-Hf-172

Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

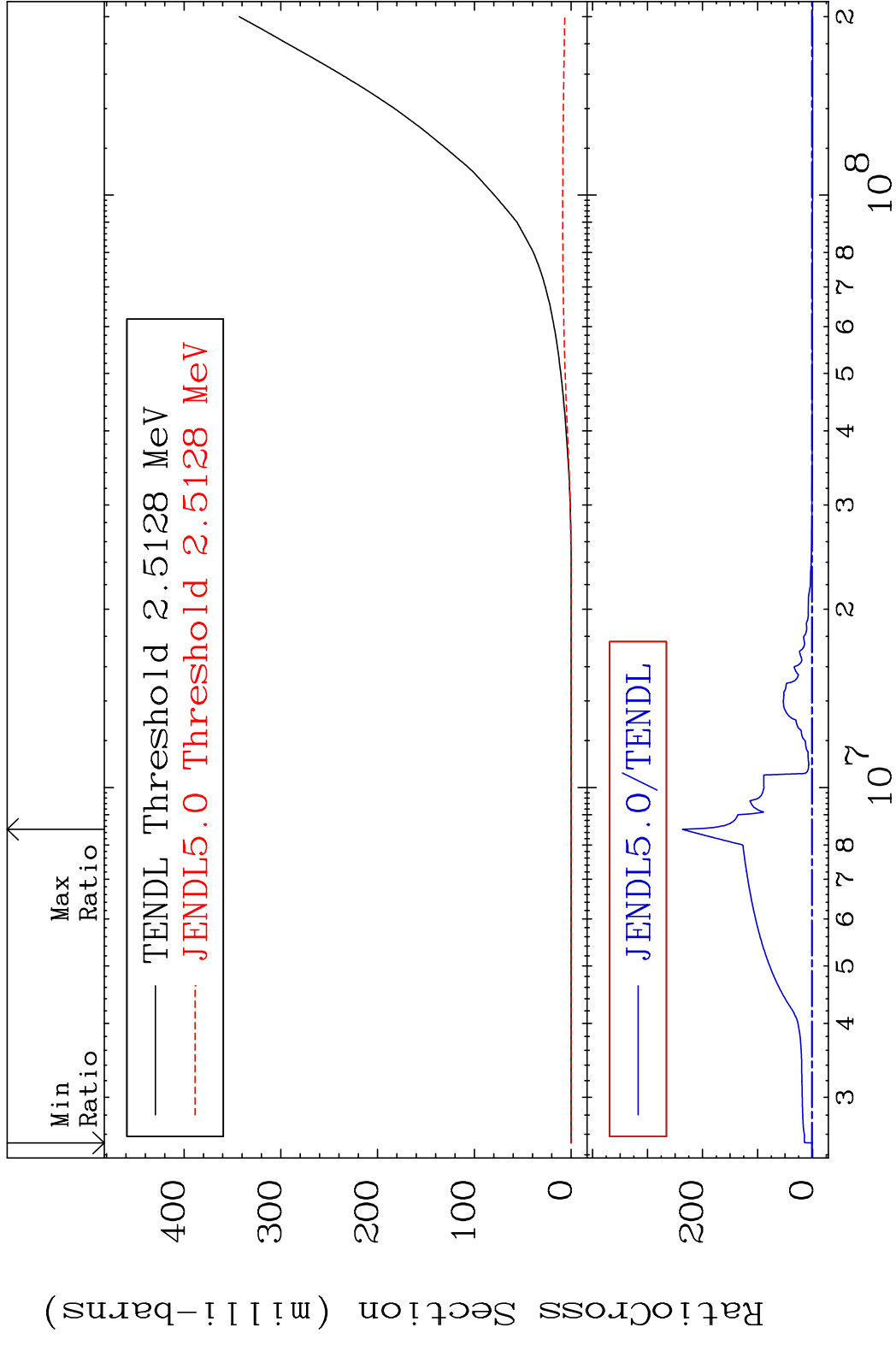


MAT 7219

He-3 Production

72-Hf-172

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

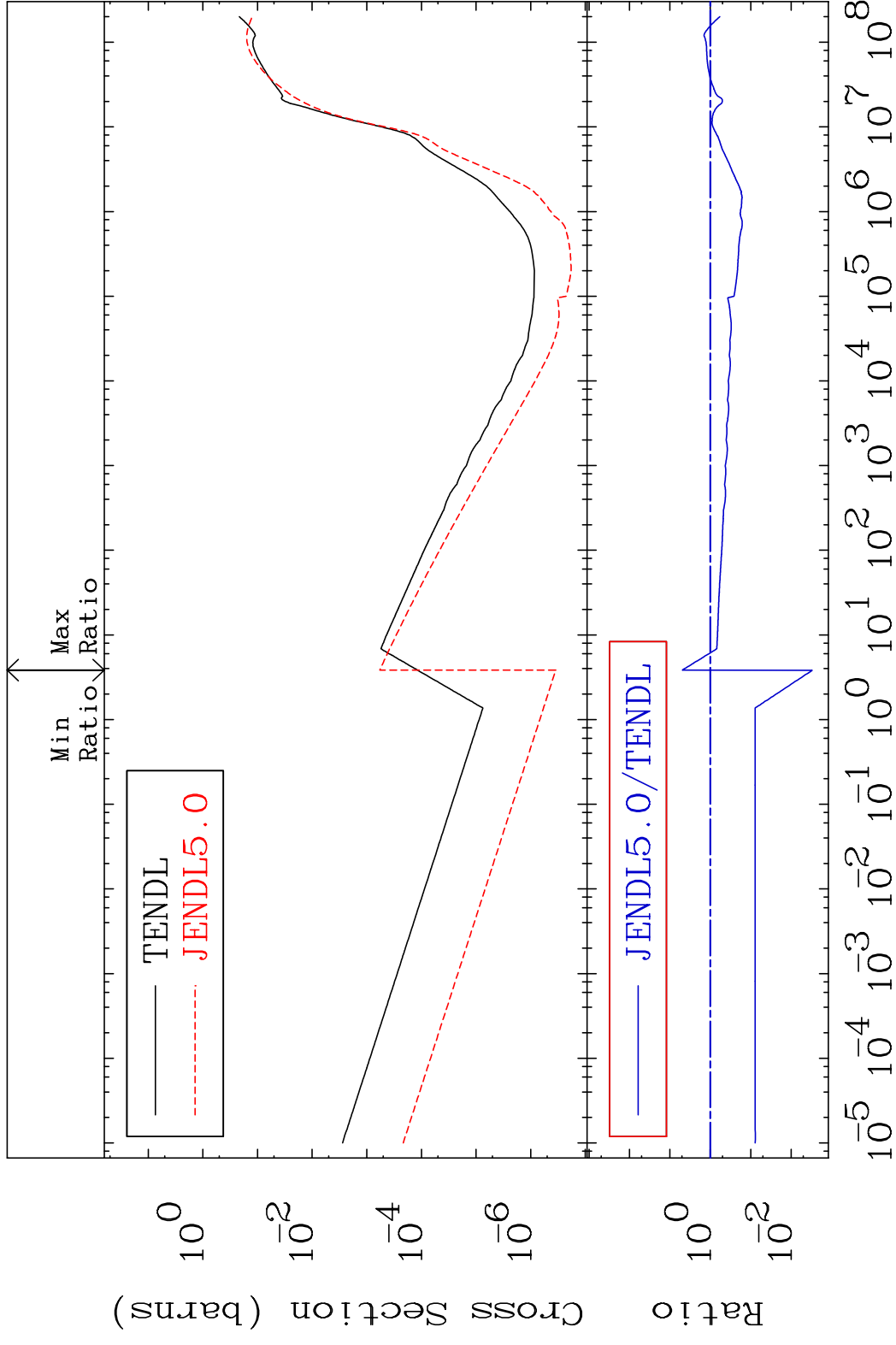
72-Hf-172

MAT 7219

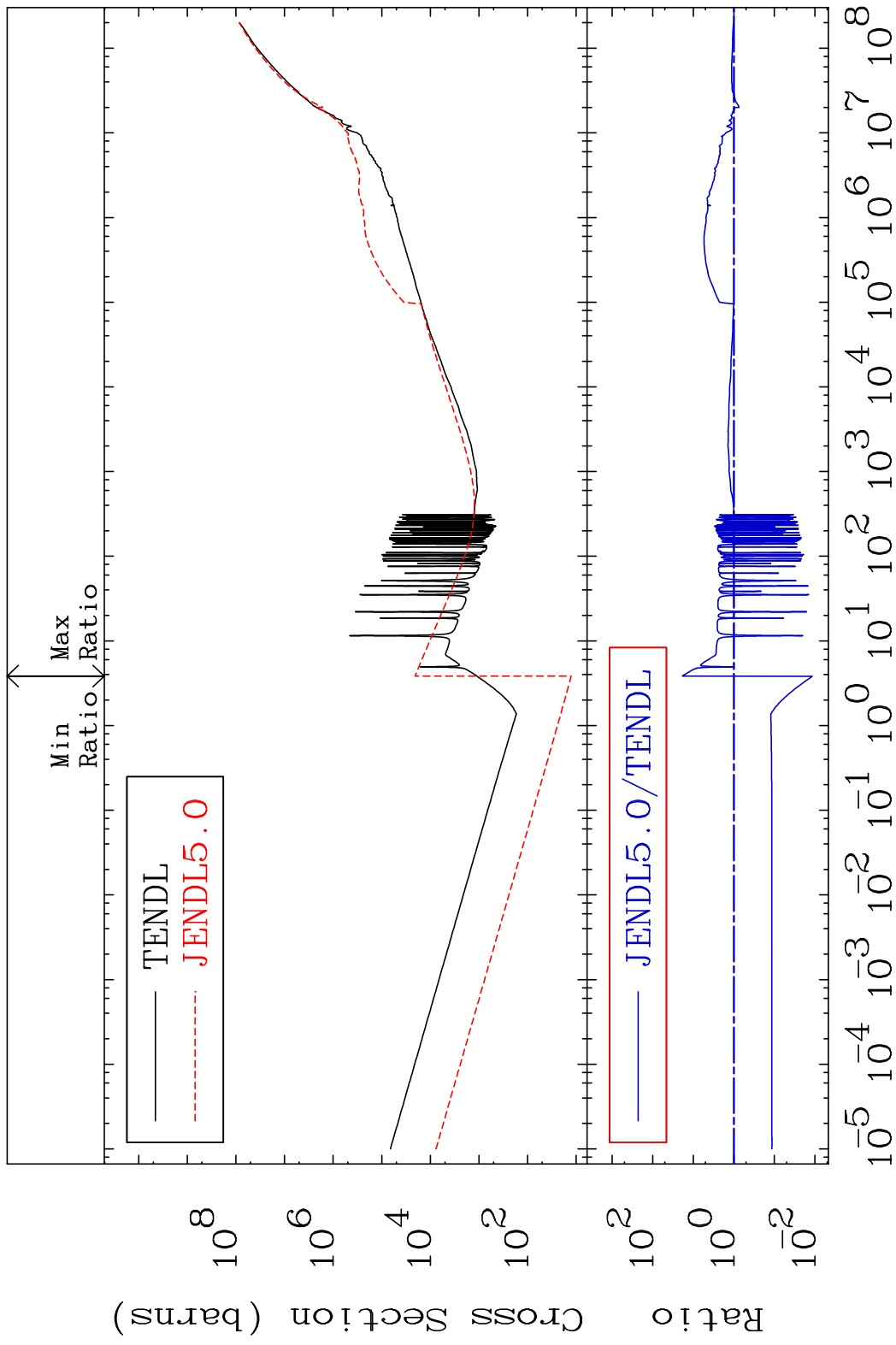
He-4 Production

72-Hf-172

Cross Section -99.71 To 390.8 %

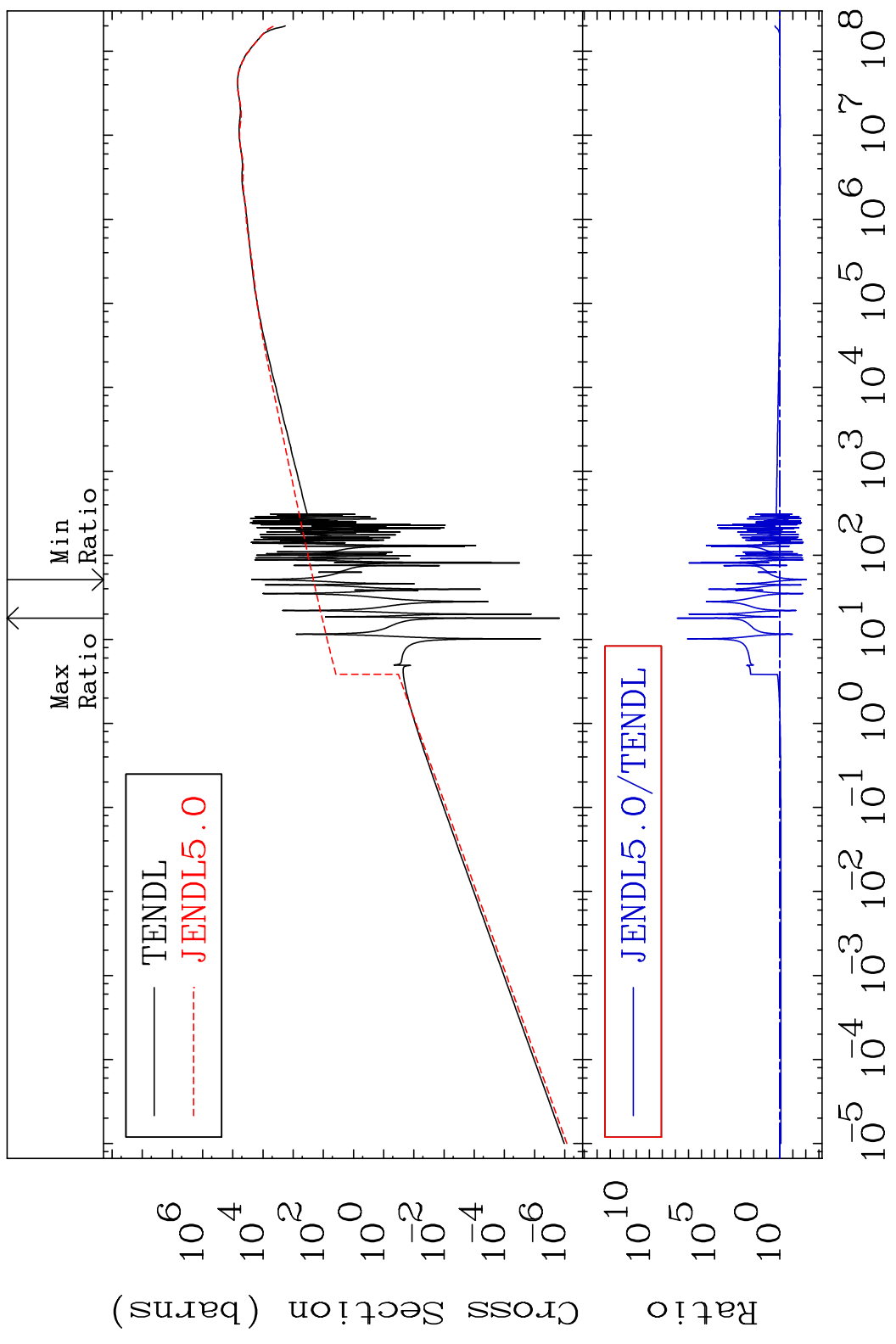


MAT 7219 Kerma total (eV-barns) 72-Hf-172
 Cross Section -98.86 To 1759. %



MAT 7219

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

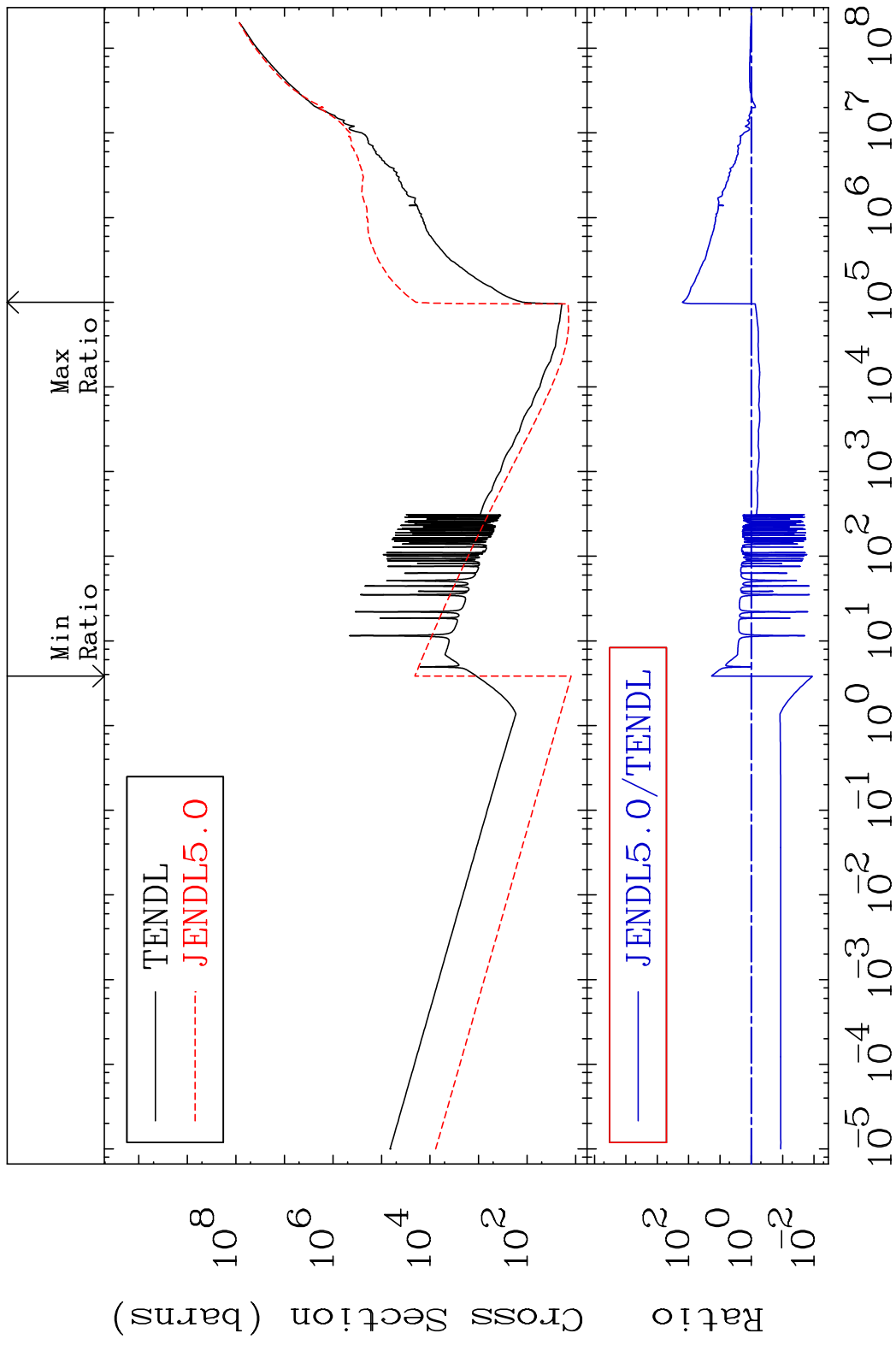


40

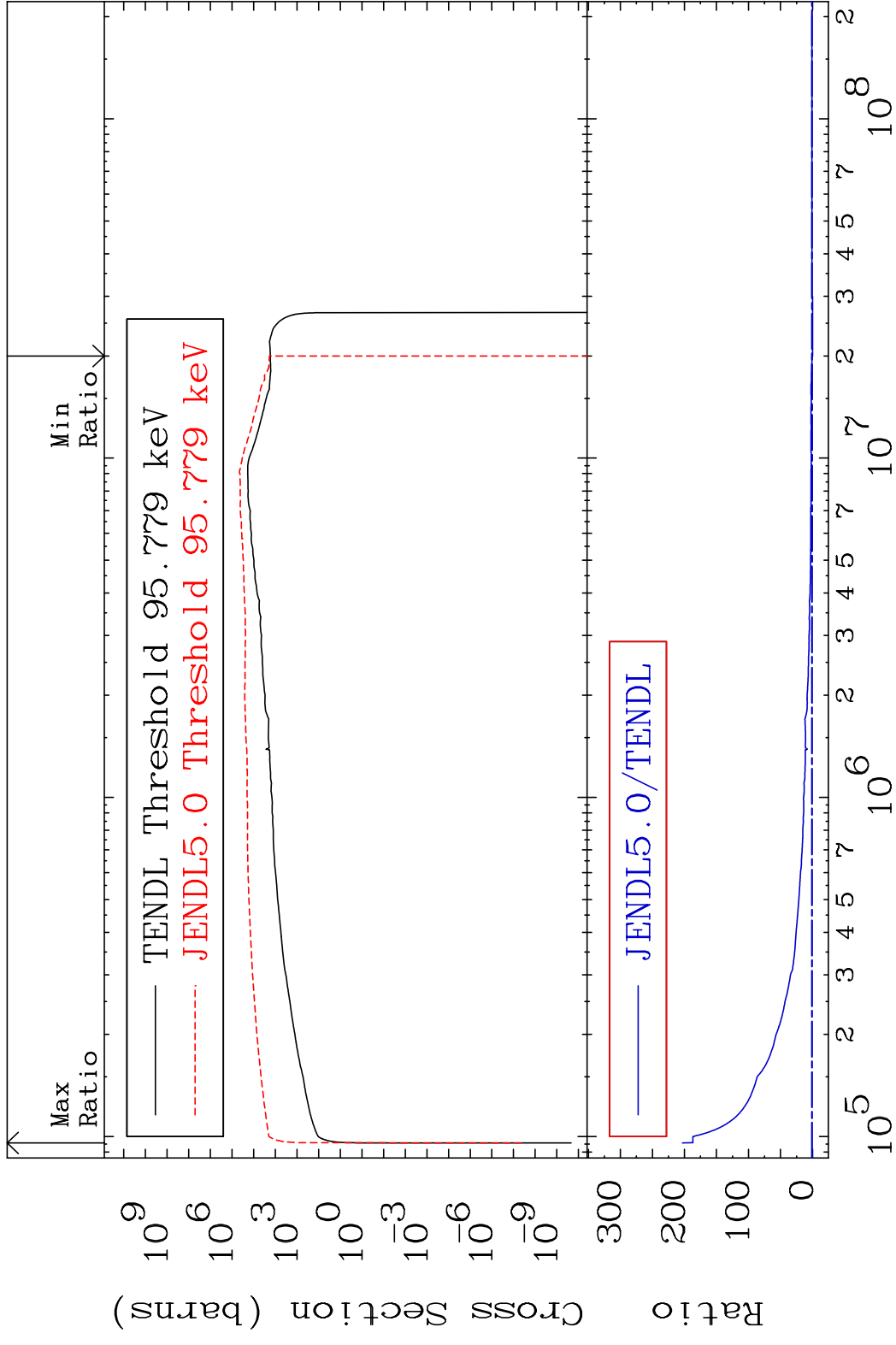
Incident Energy (eV)

72-Hf-172

MAT 7219 Kerma non-elastic (all but mt2) 72-Hf-172
 Cross Section -98.88 To 9999. %

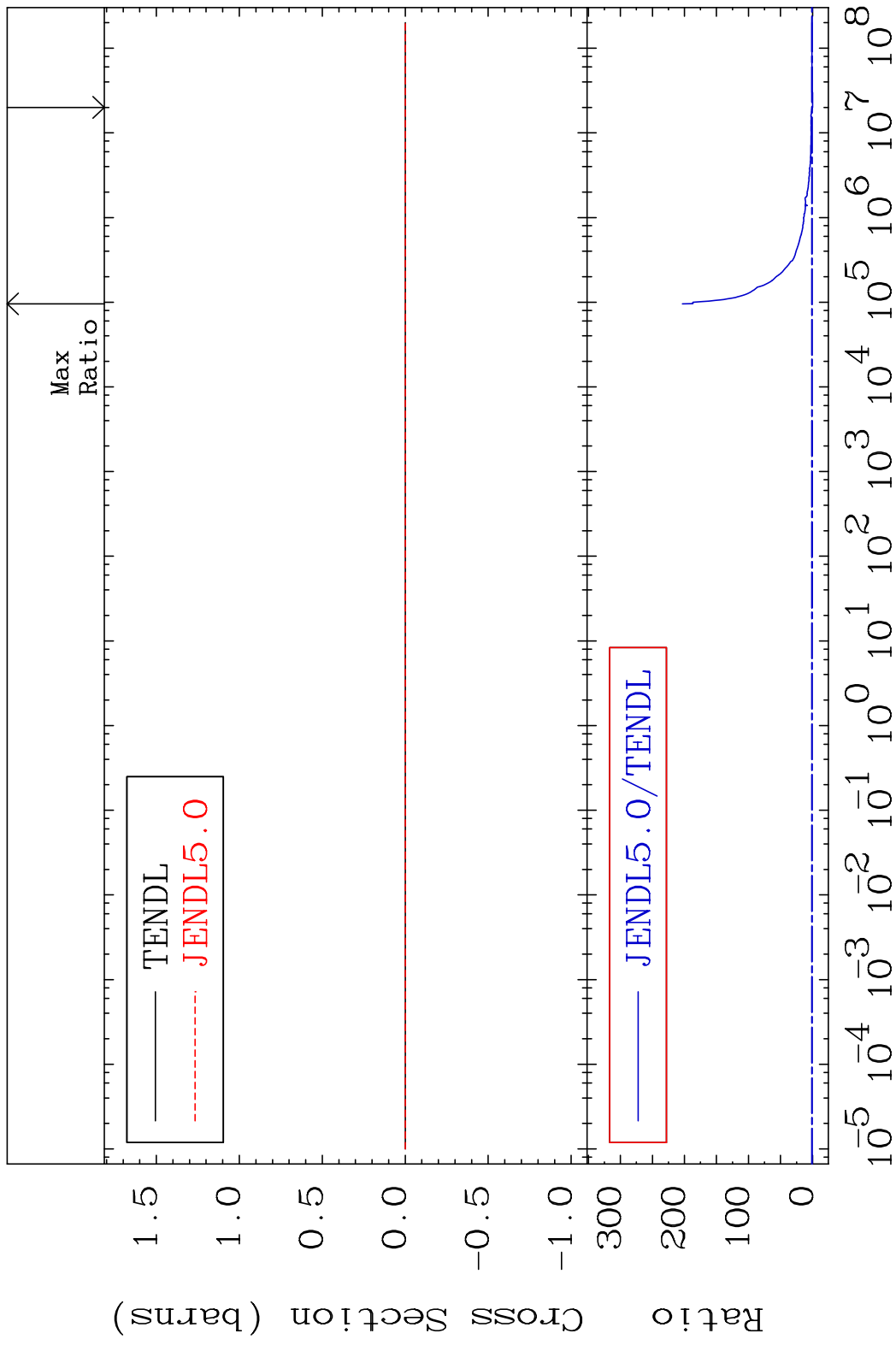


MAT 7219 Kerma inelastic (mt51-91) 72-Hf-172
 Cross Section -100.0 To 9999. %



42 Incident Energy (eV) 72-Hf-172

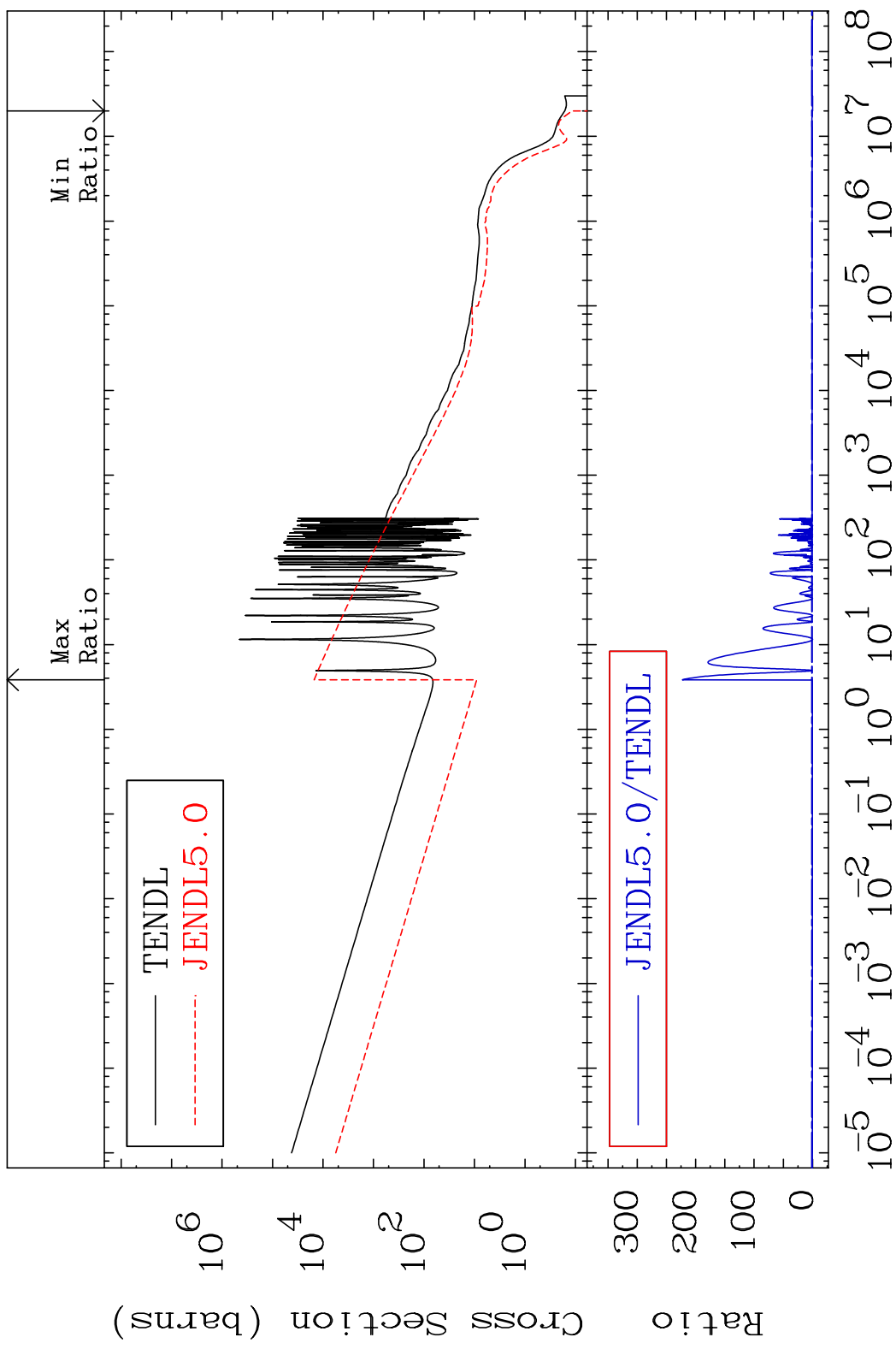
MAT 7219 Kerma fission (mt18 or mt19-20-21-38) 72-Hf-172
 Cross Section -100.0 To 9999. %



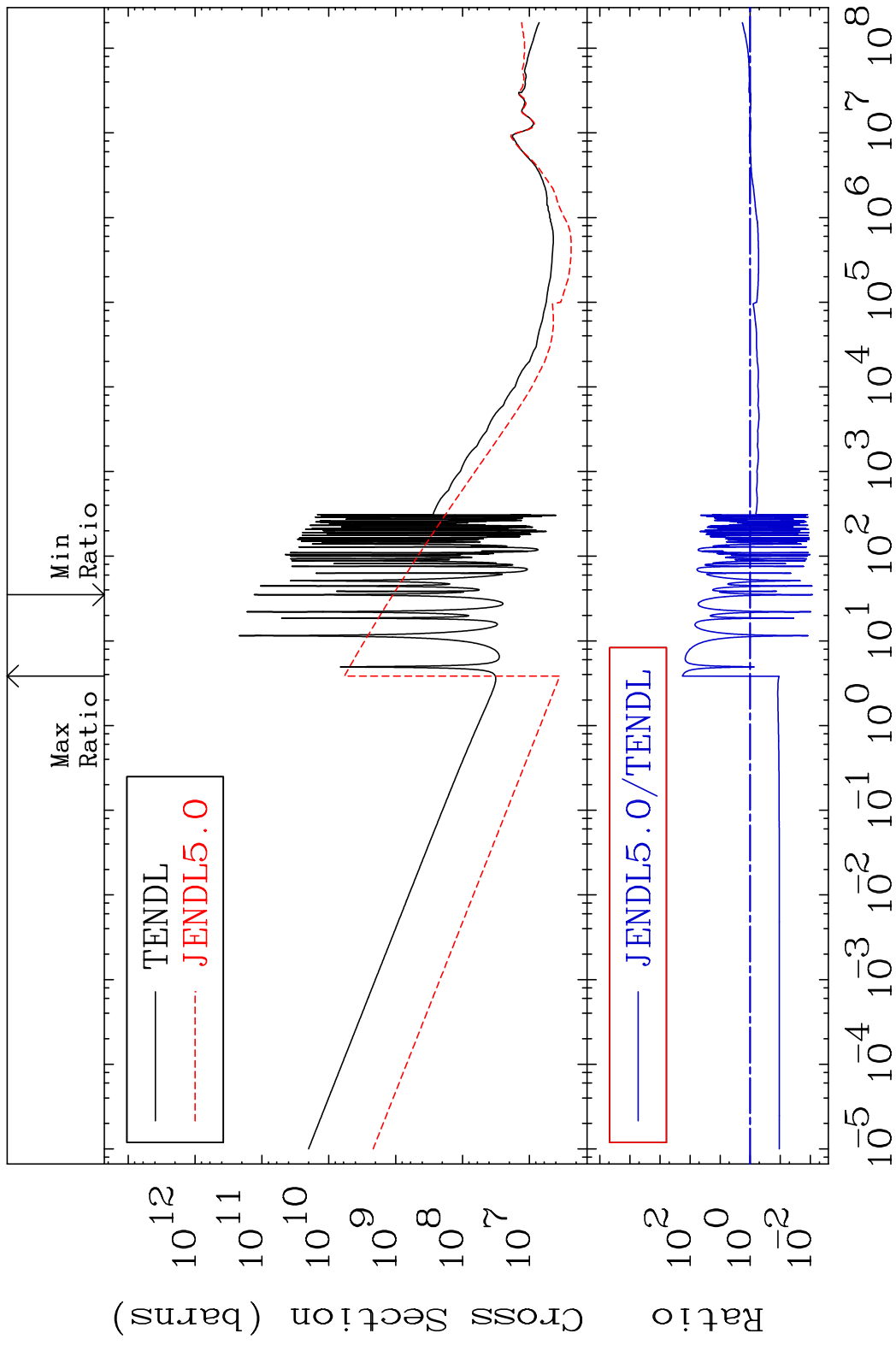
MAT 7219

Kerma capture (mt102) 72-Hf-172

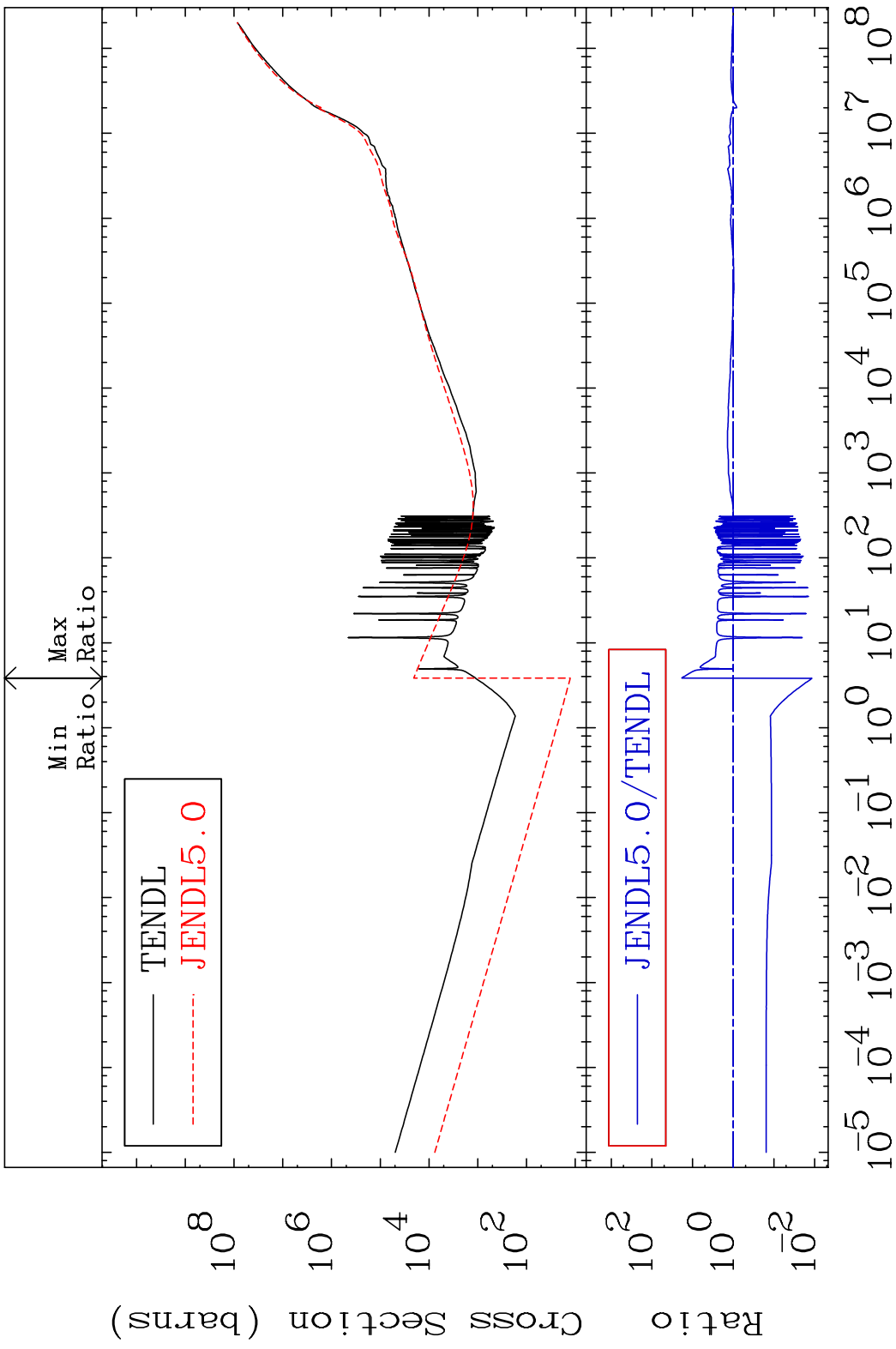
Cross Section -100.0 To 9999. %



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



MAT 7219 Total kinematic kerma (high limit) 72-Hf-172
 Cross Section -98.86 To 1748. %

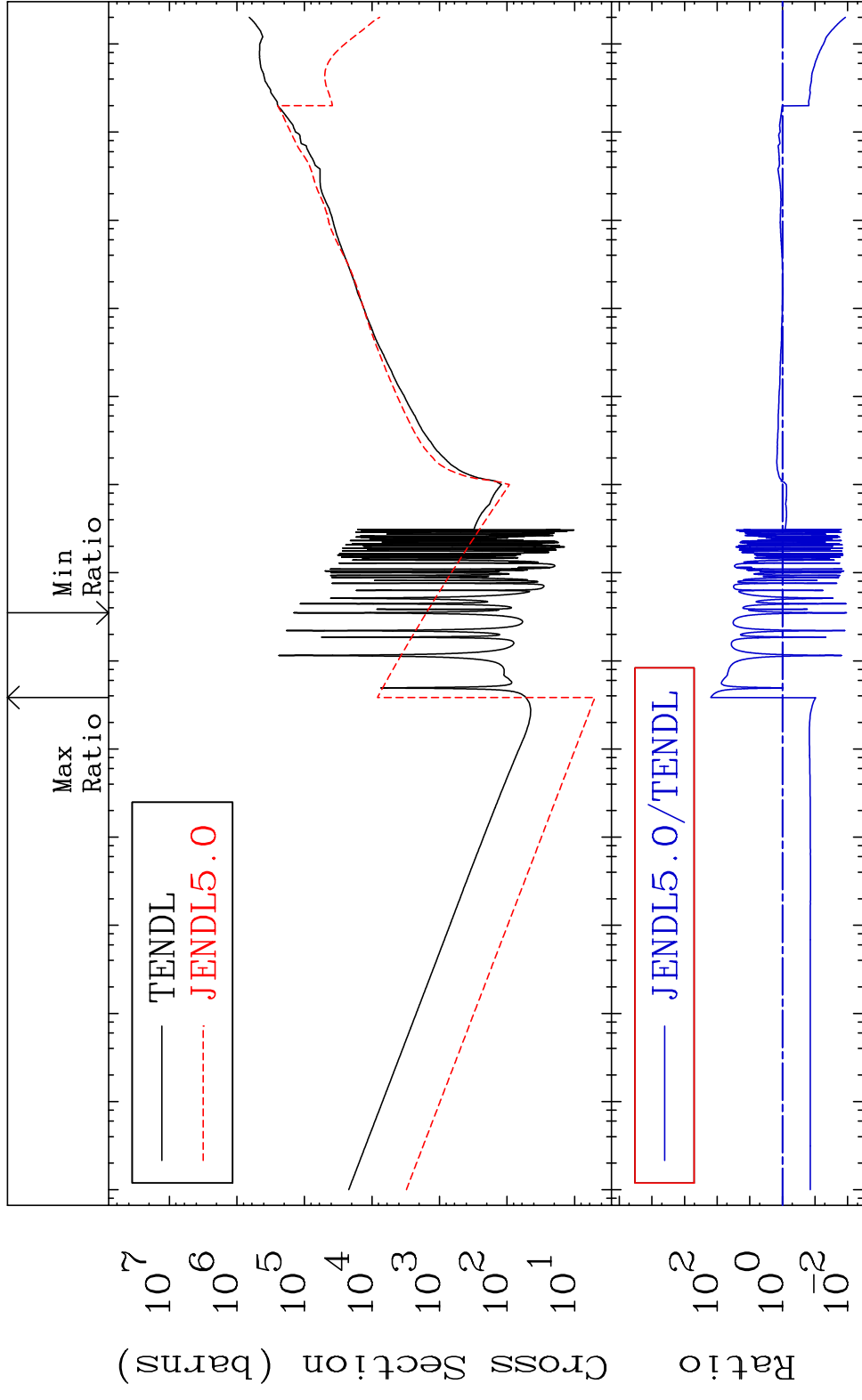


MAT 7219

Dpa total (eV-barns)

72-Hf-172

Cross Section -98.90 To 9999. %



47

Incident Energy (eV)

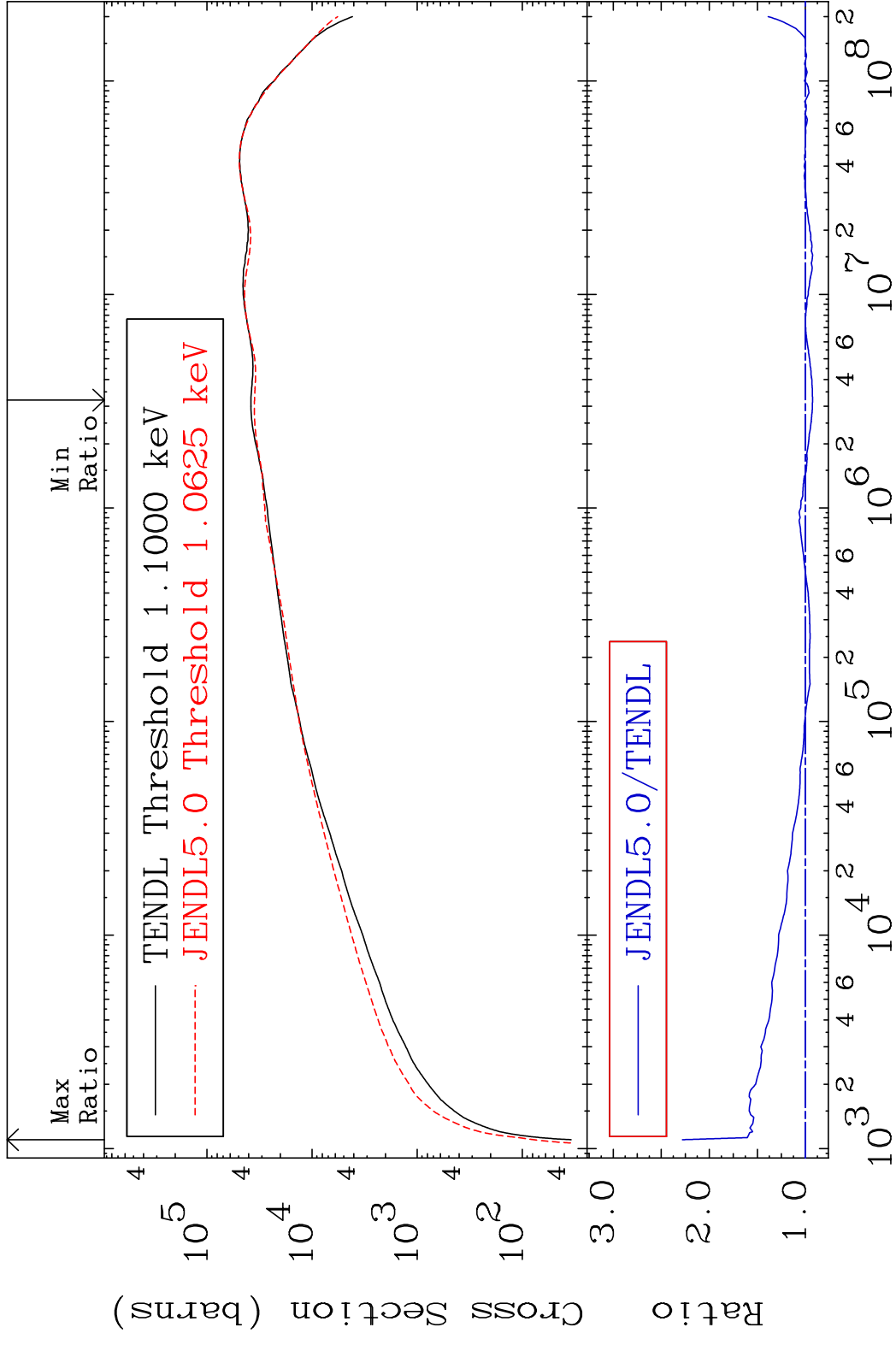
72-Hf-172

MAT 7219

Dpa elastic (mt2)

72-Hf-172

Cross Section -7.443 To 128.1 %

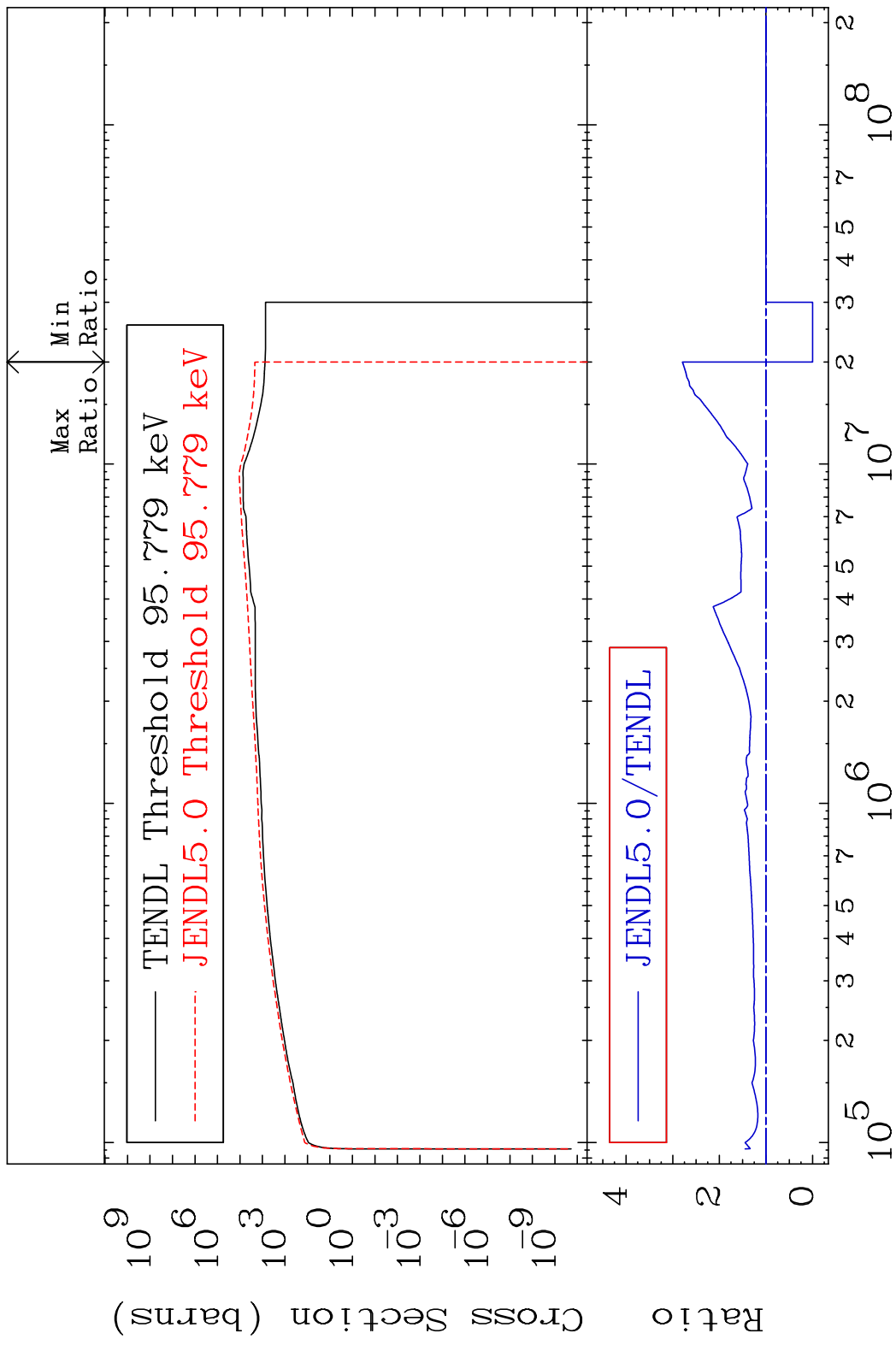


48

Incident Energy (eV)

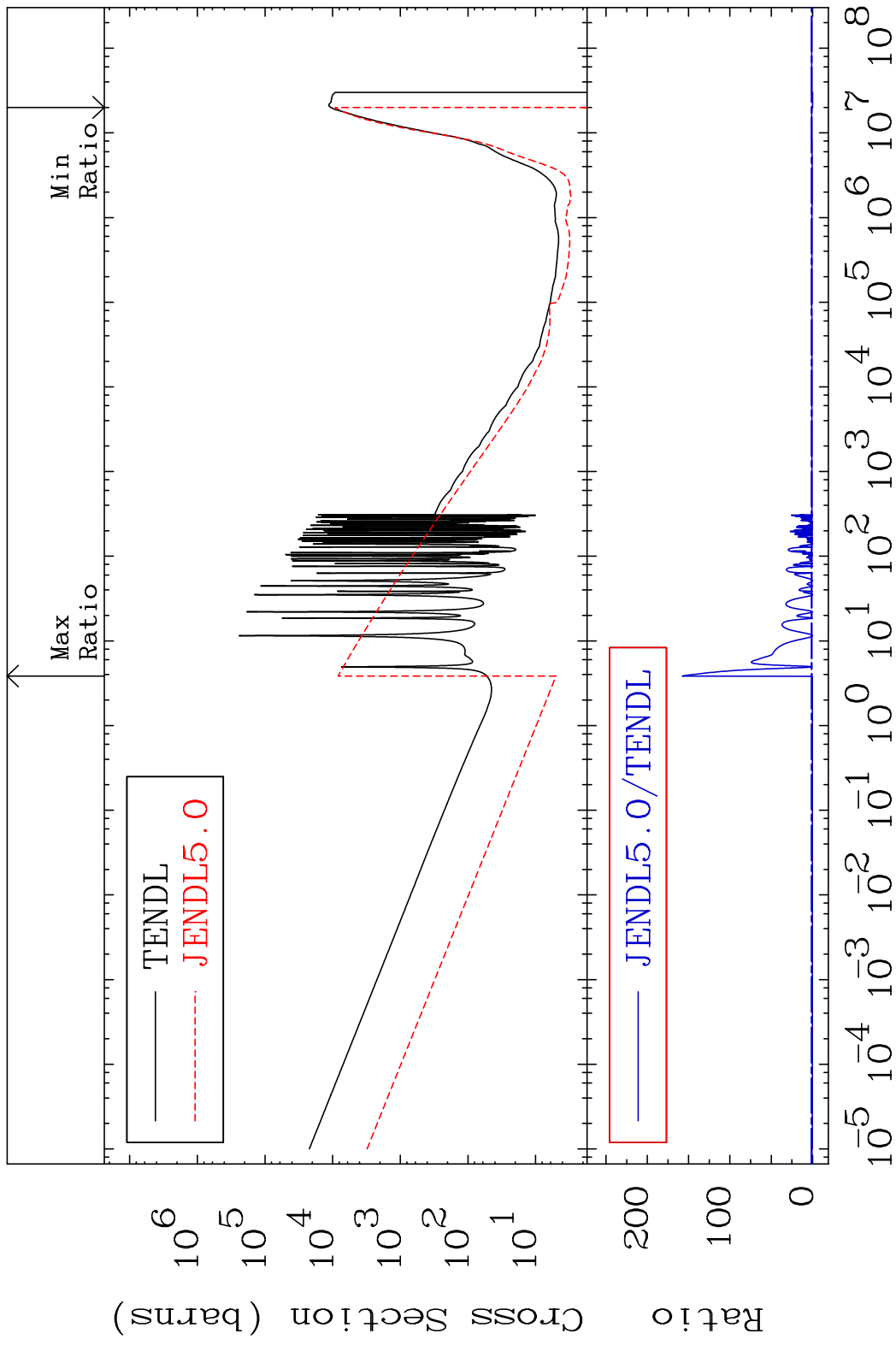
72-Hf-172

MAT 7219 Dpa inelastic (mt51-91) 72-Hf-172
 Cross Section -100.0 To 179.4 %



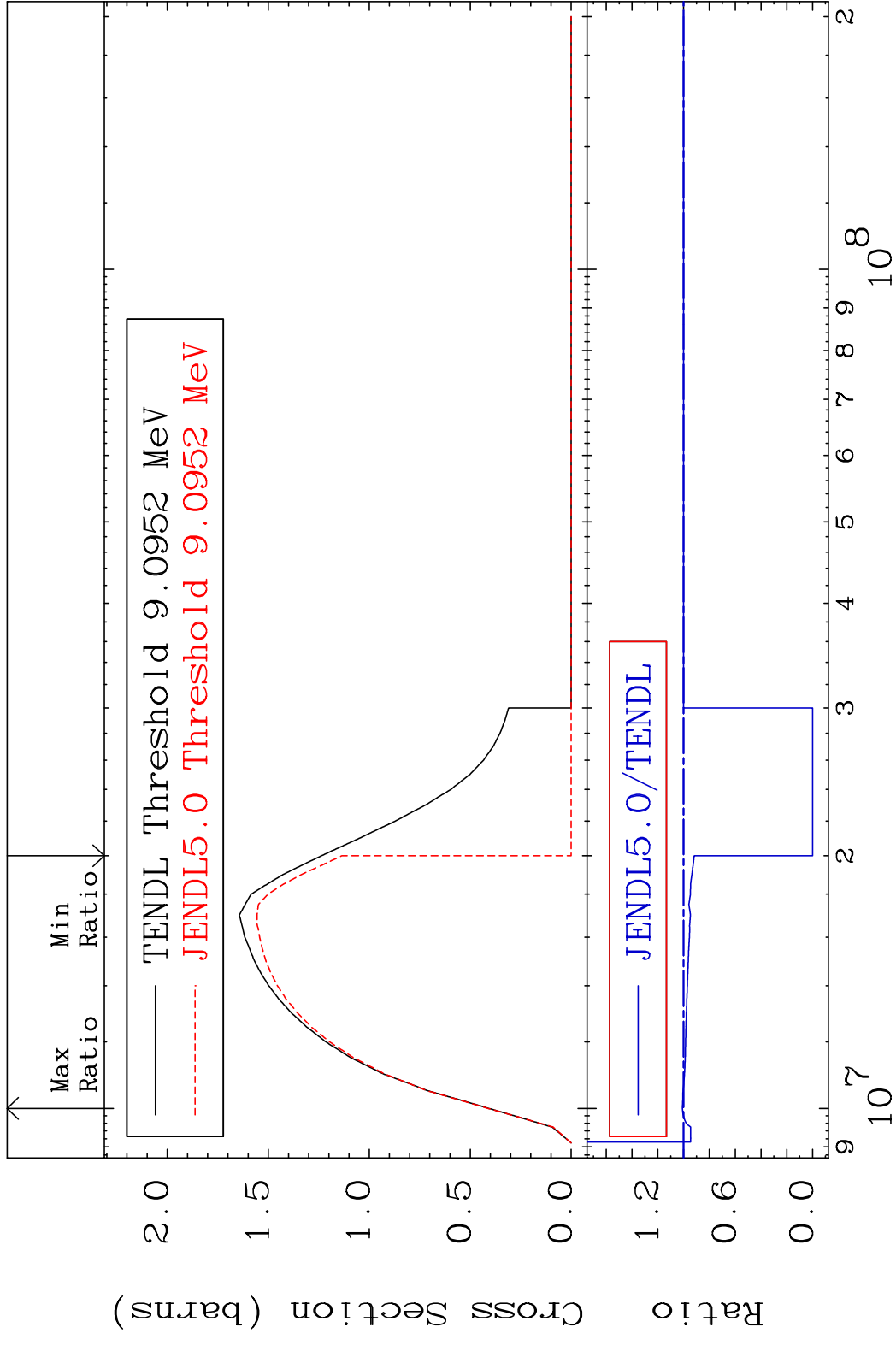
49 Incident Energy (eV) 72-Hf-172

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

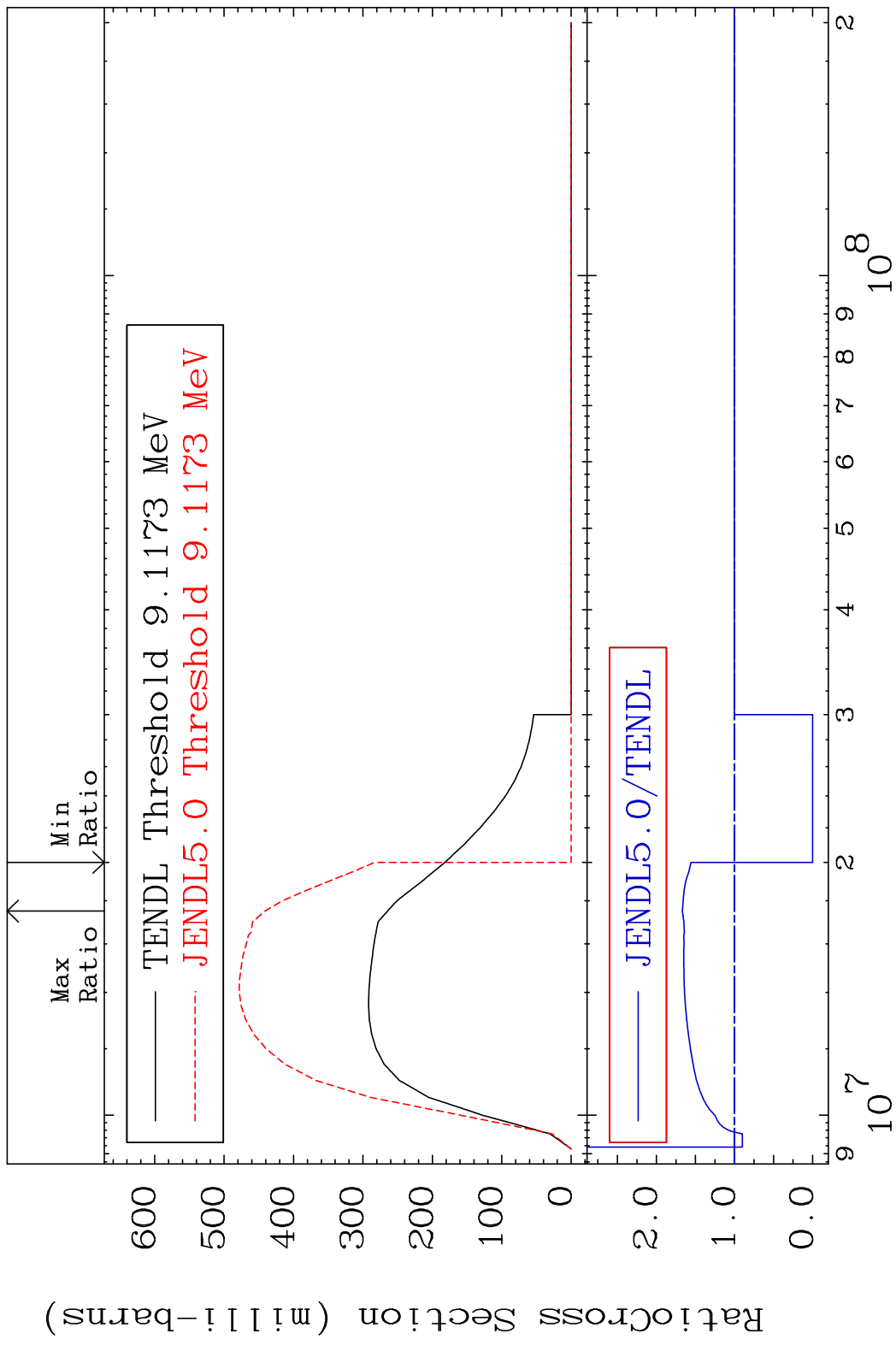


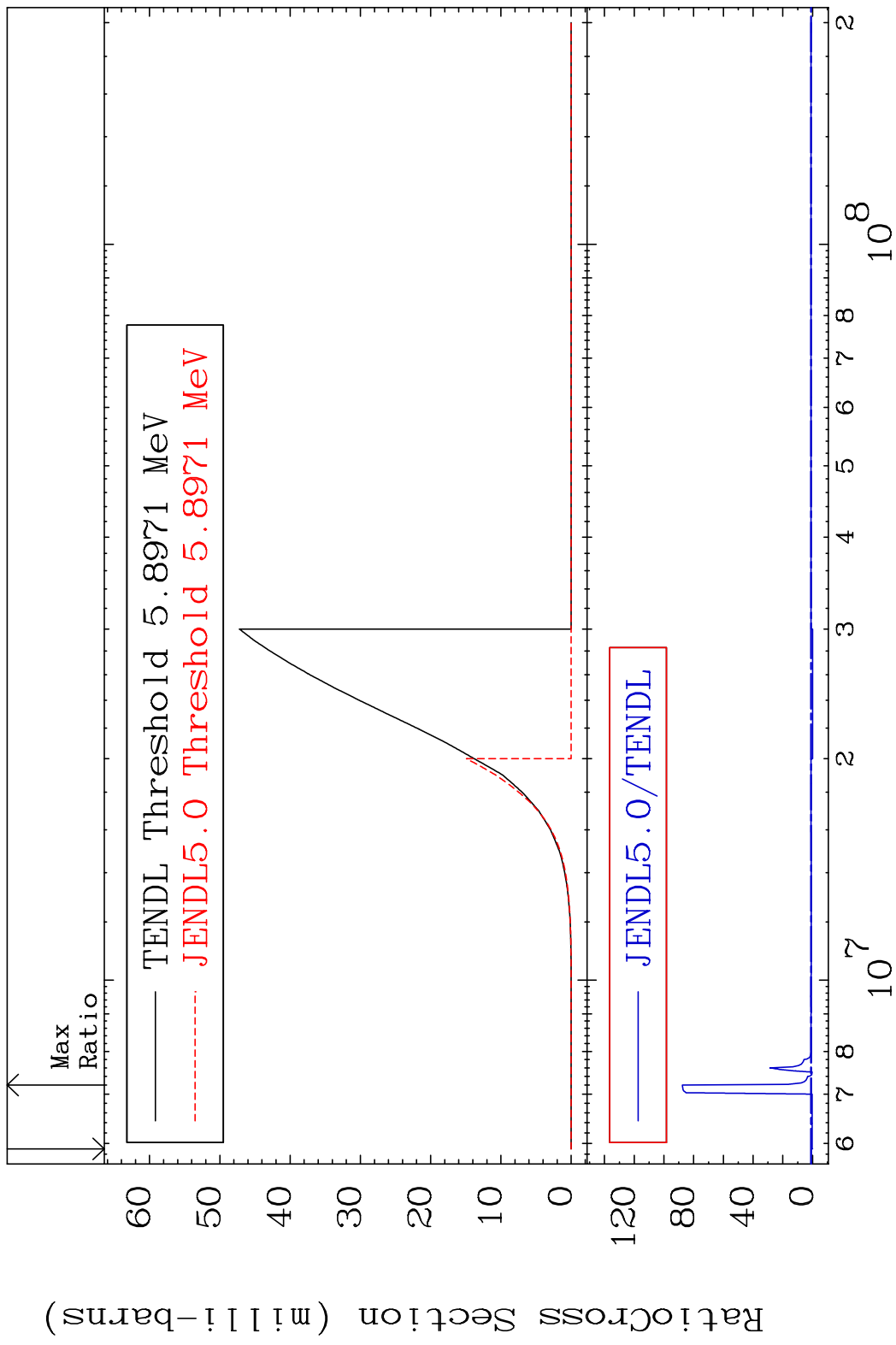
50 Incident Energy (eV) 72-Hf-172

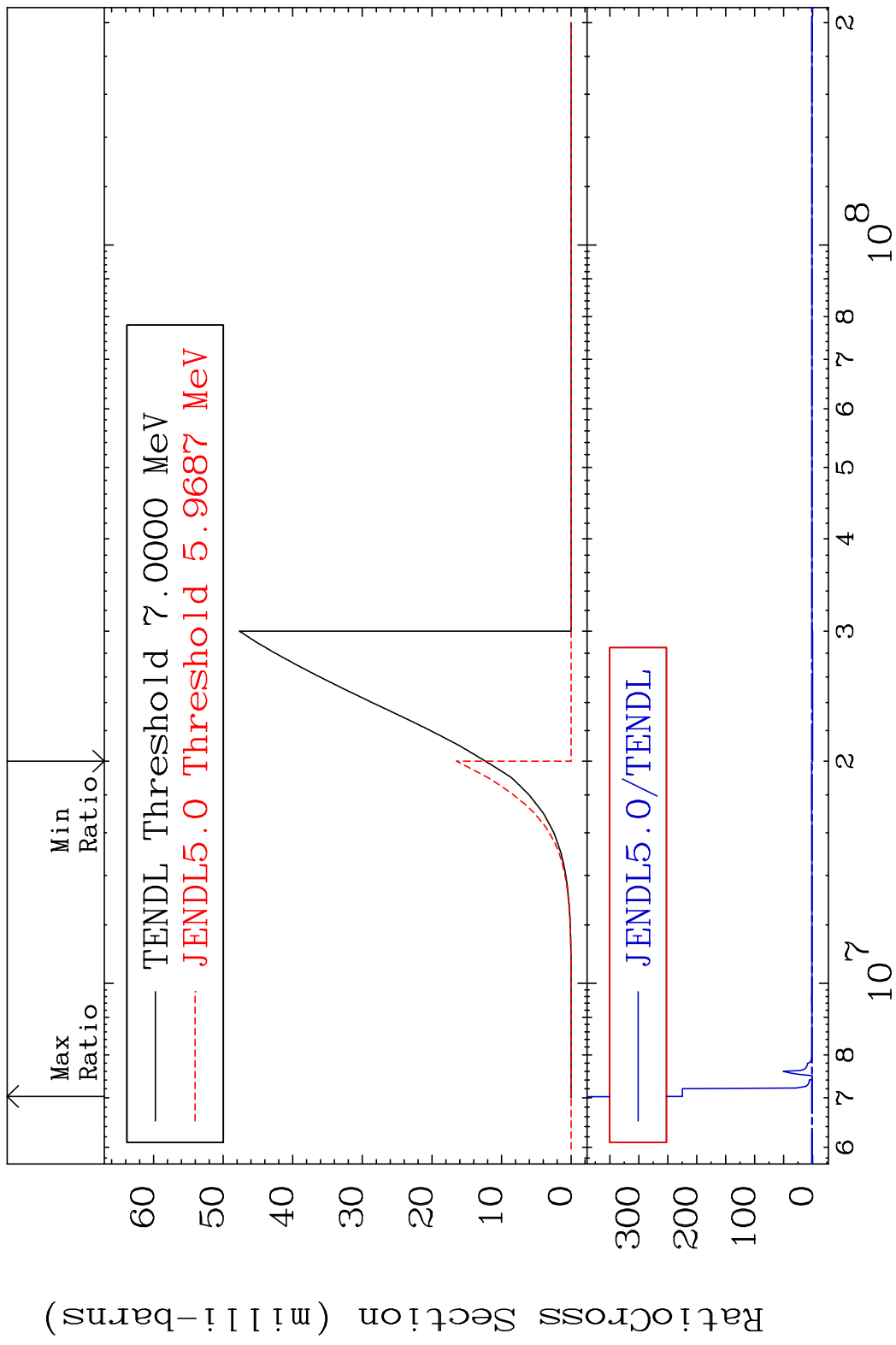
MAT 7219 (n,2n):72-Hf-171g 72-Hf-172
 Radionuclide Production Cross Section Ratio 0.972 %

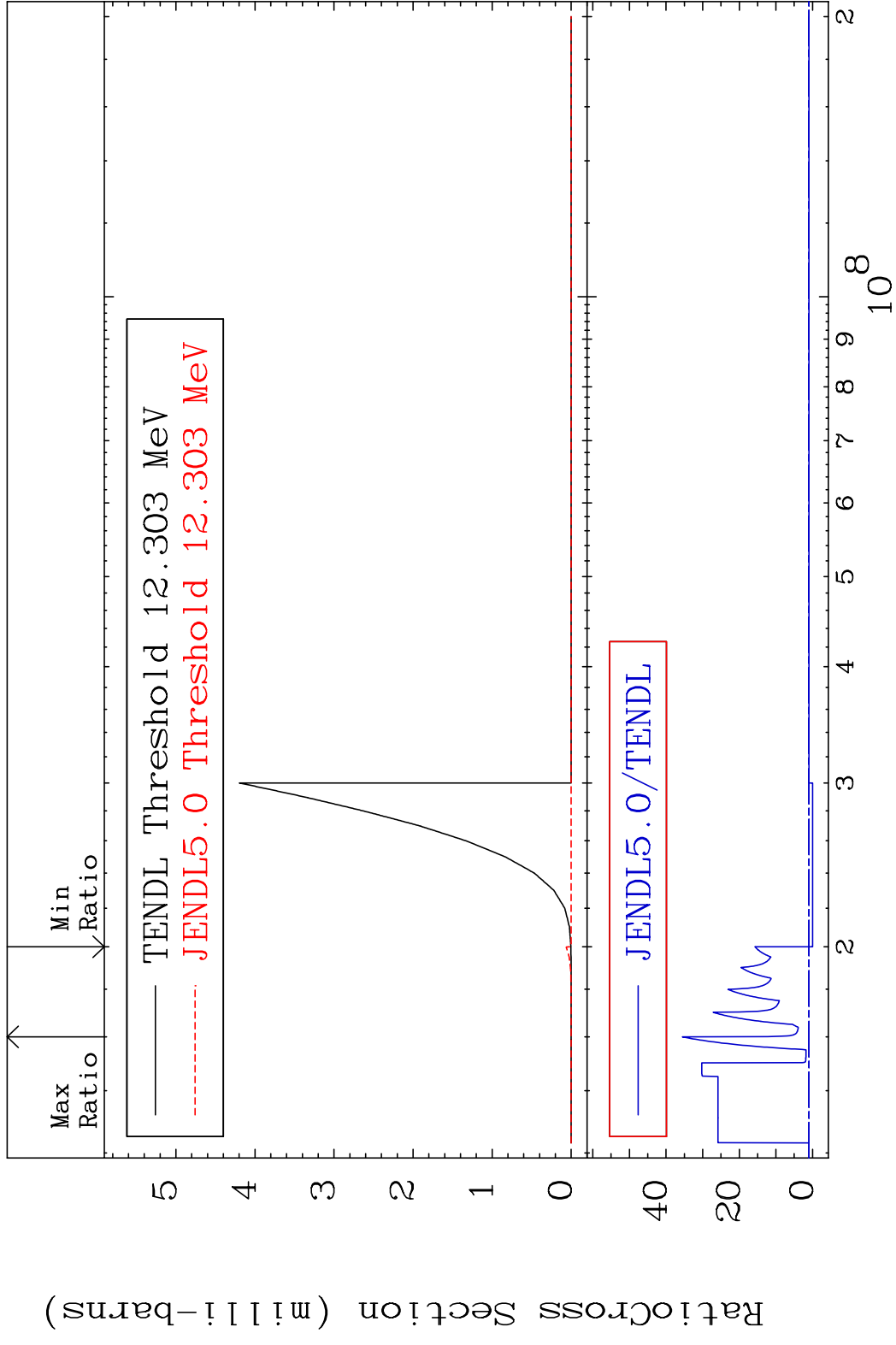


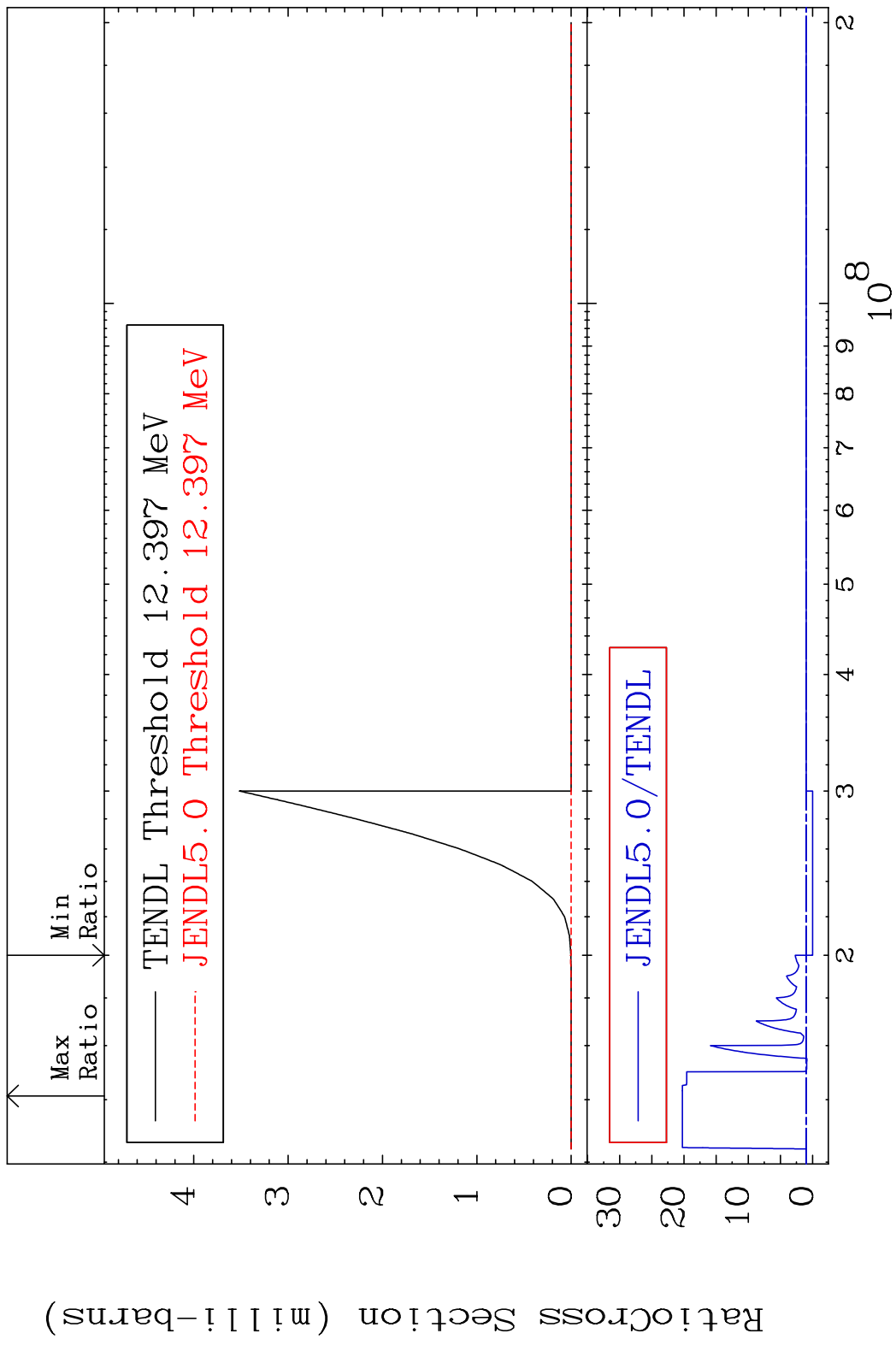
MAT 7219 (n,2n):72-Hf-171m1 72-Hf-172
 Radionuclide Production Cross Section Ratio 66.79 %

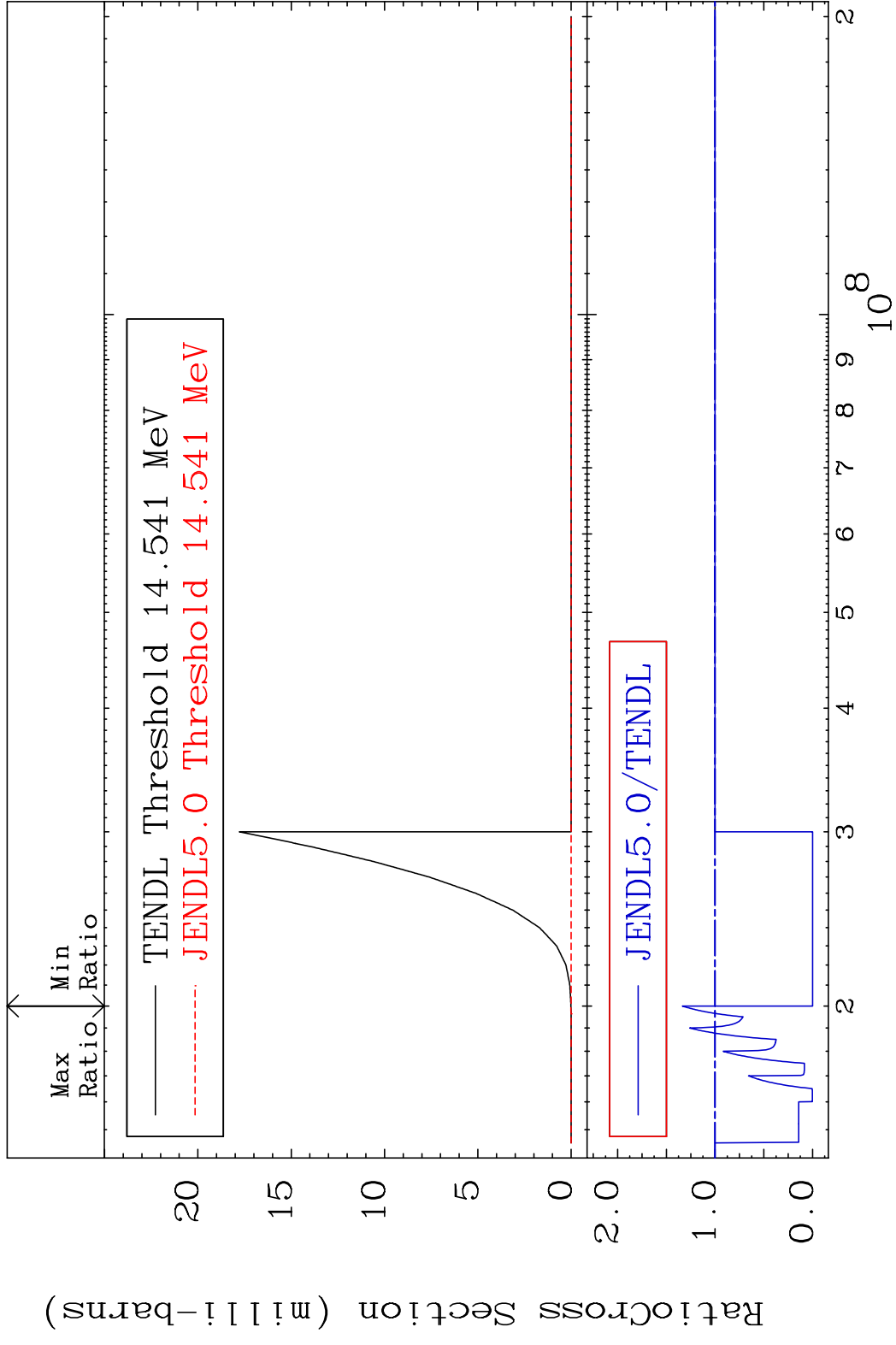


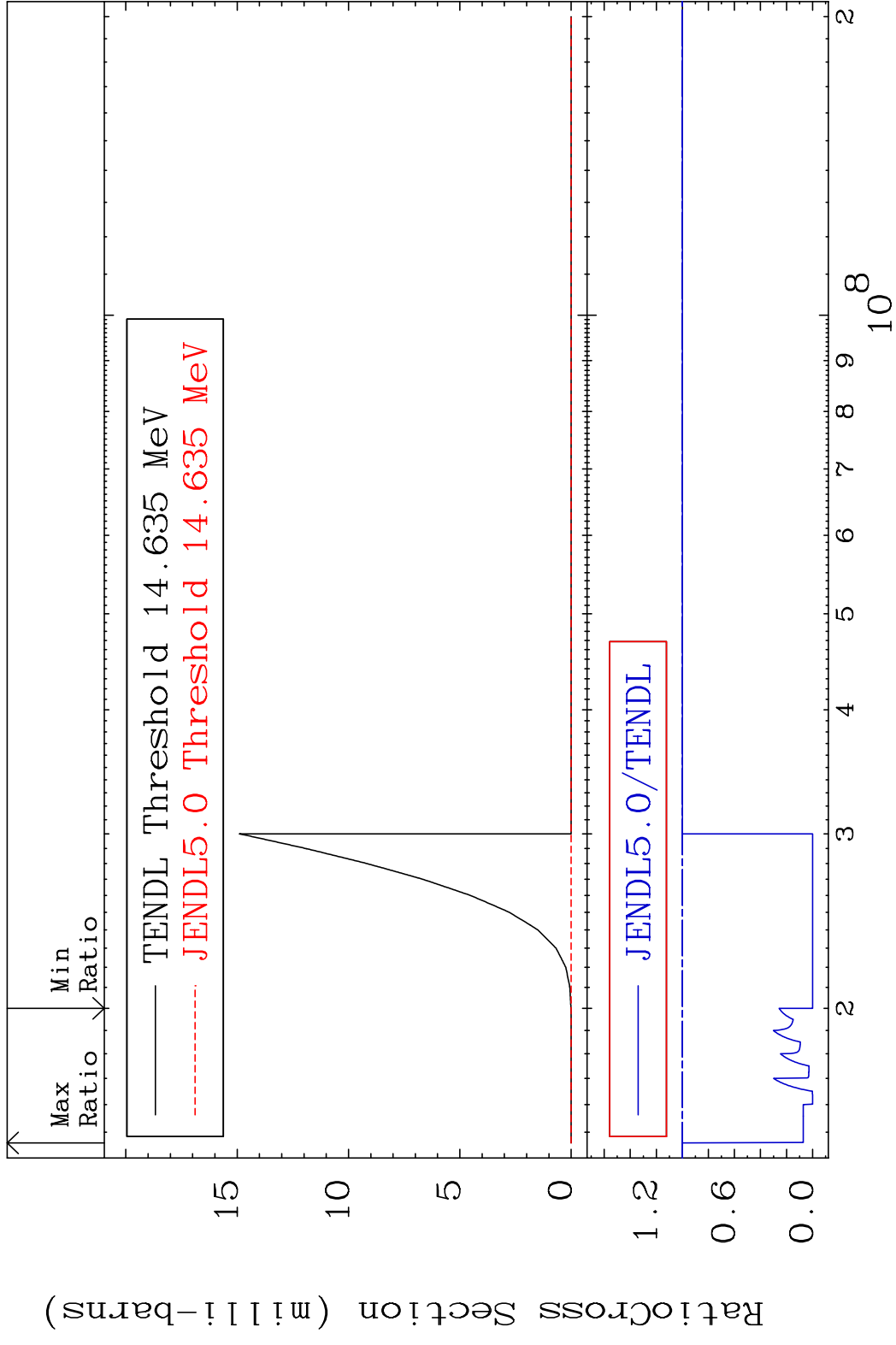


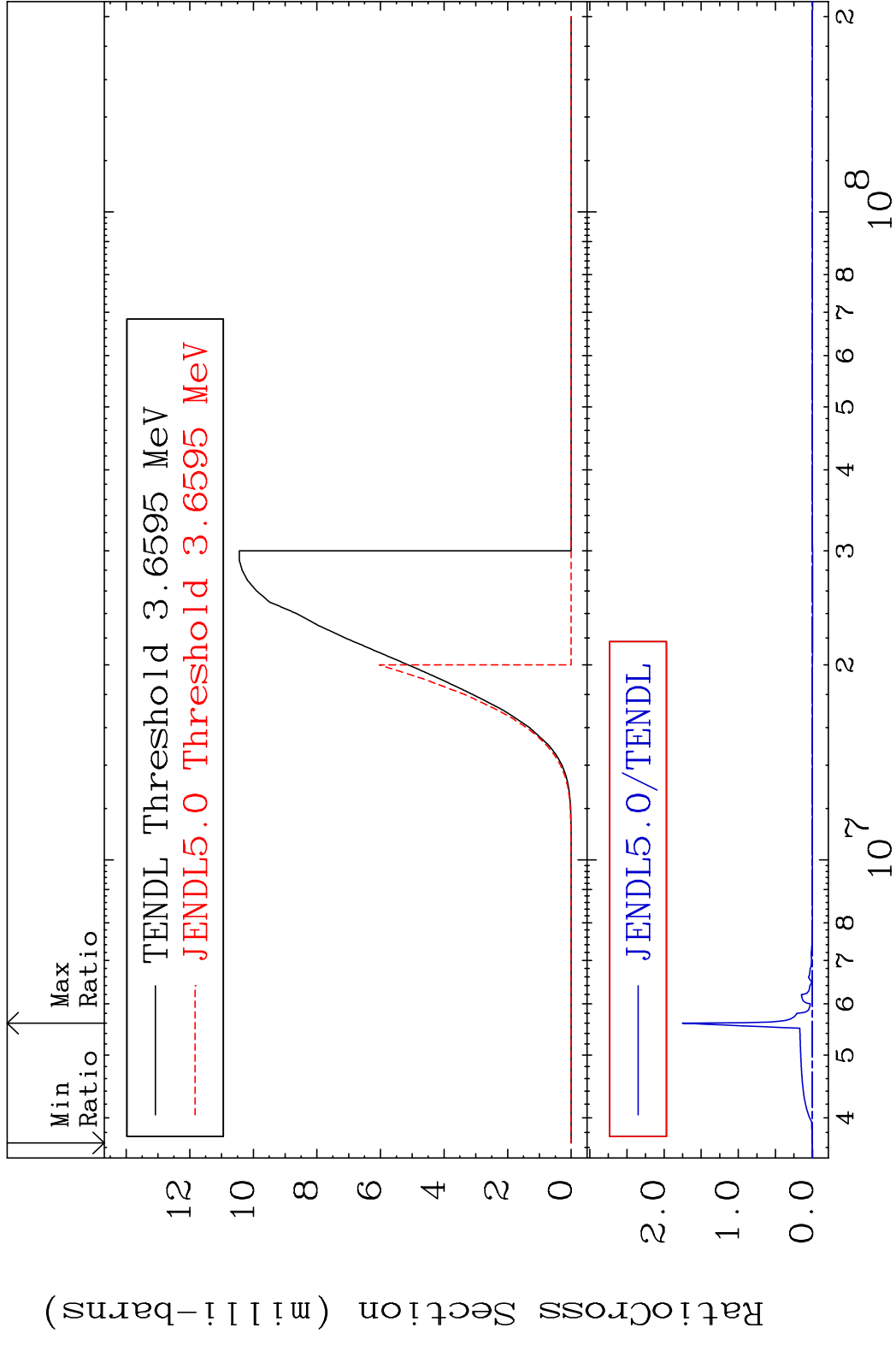




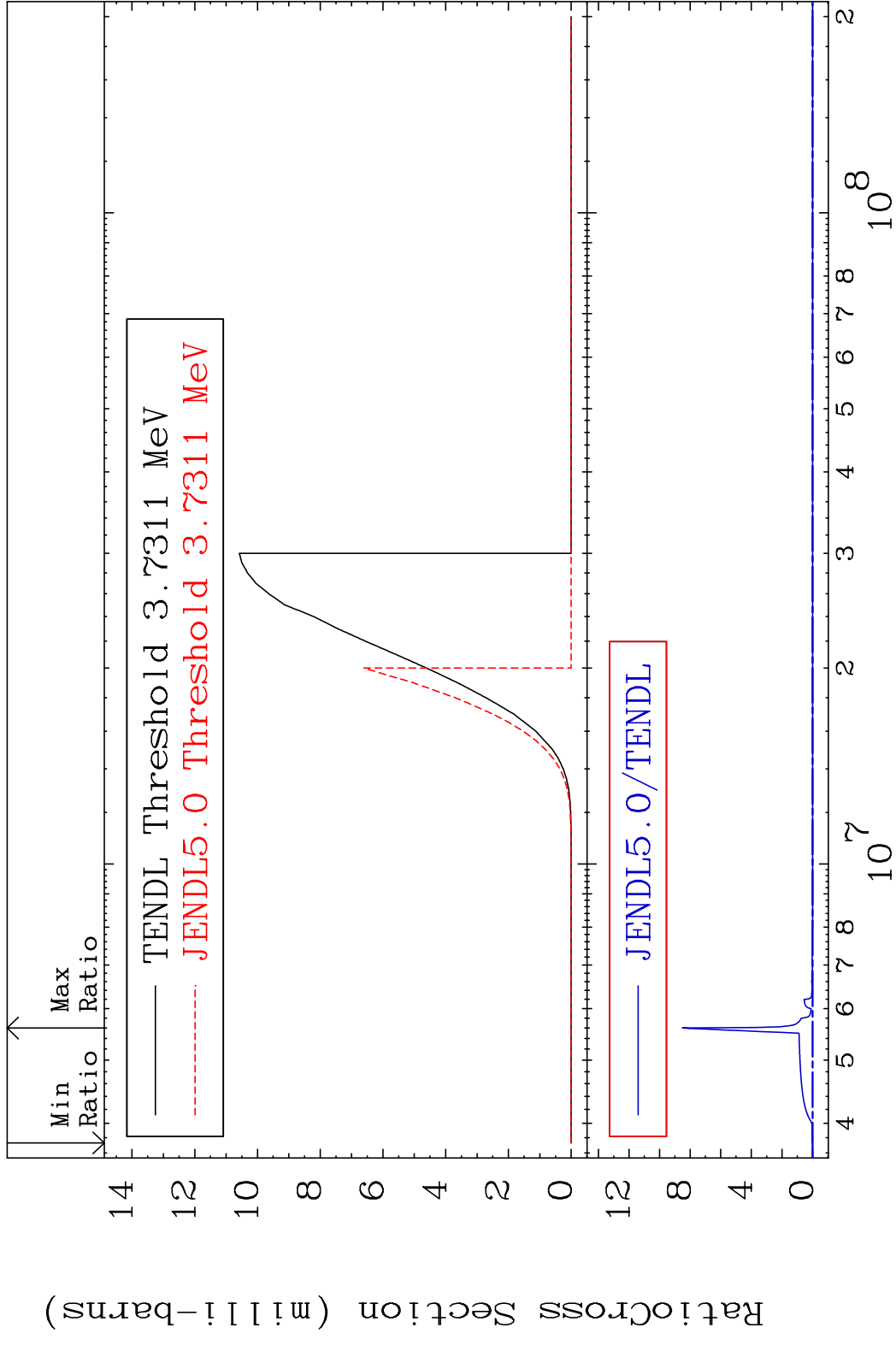


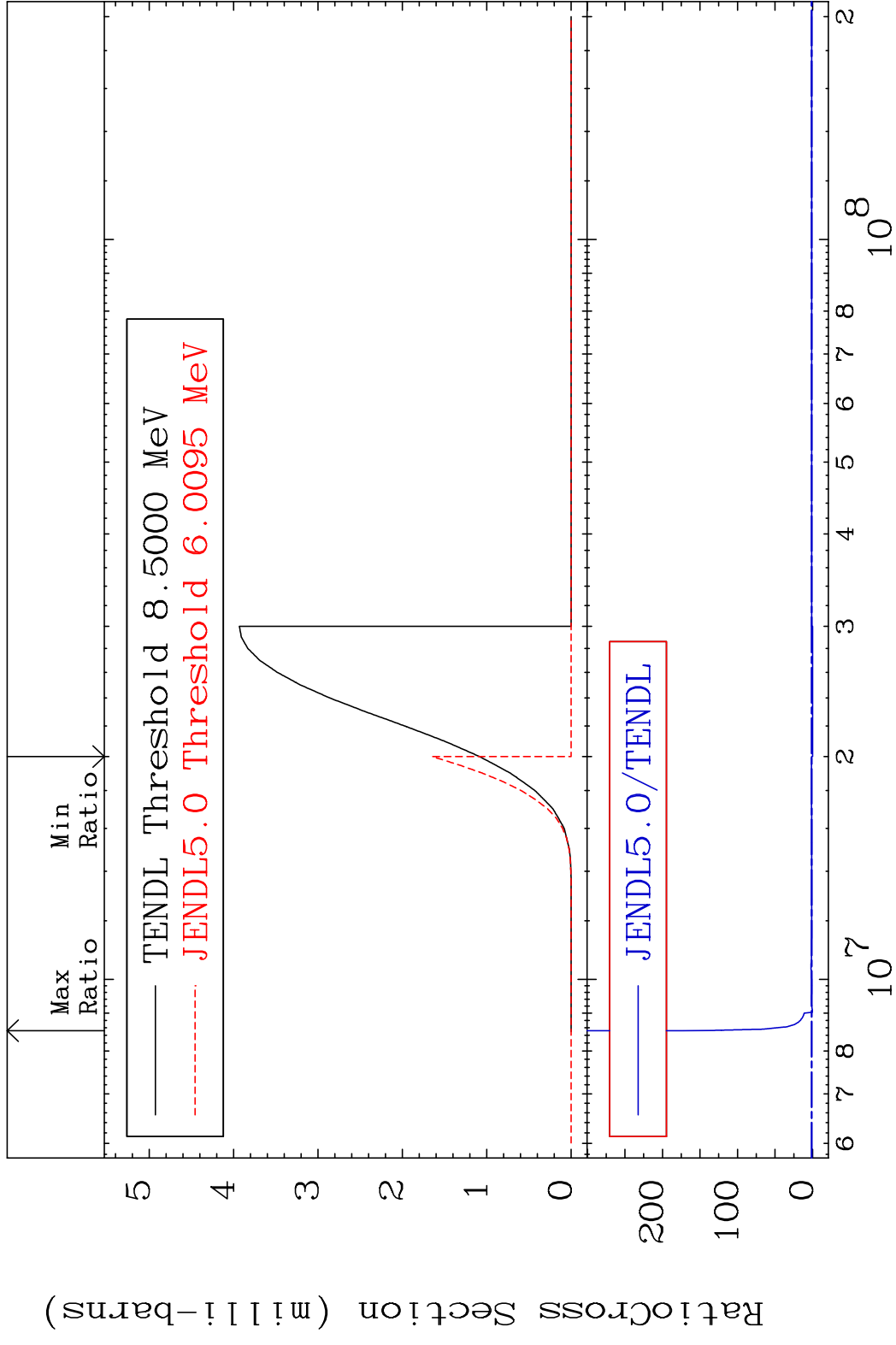






MAT 7219 (n,d):71-Lu-171m1 72-Hf-172
 Radionuclide Production Cross Section 100.00 dth 9999. %





MAT 7219 (n, t): 71-Lu-170m2 72-Hf-172
 Radionuclide Production Cross Section 584.3 %

