

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](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

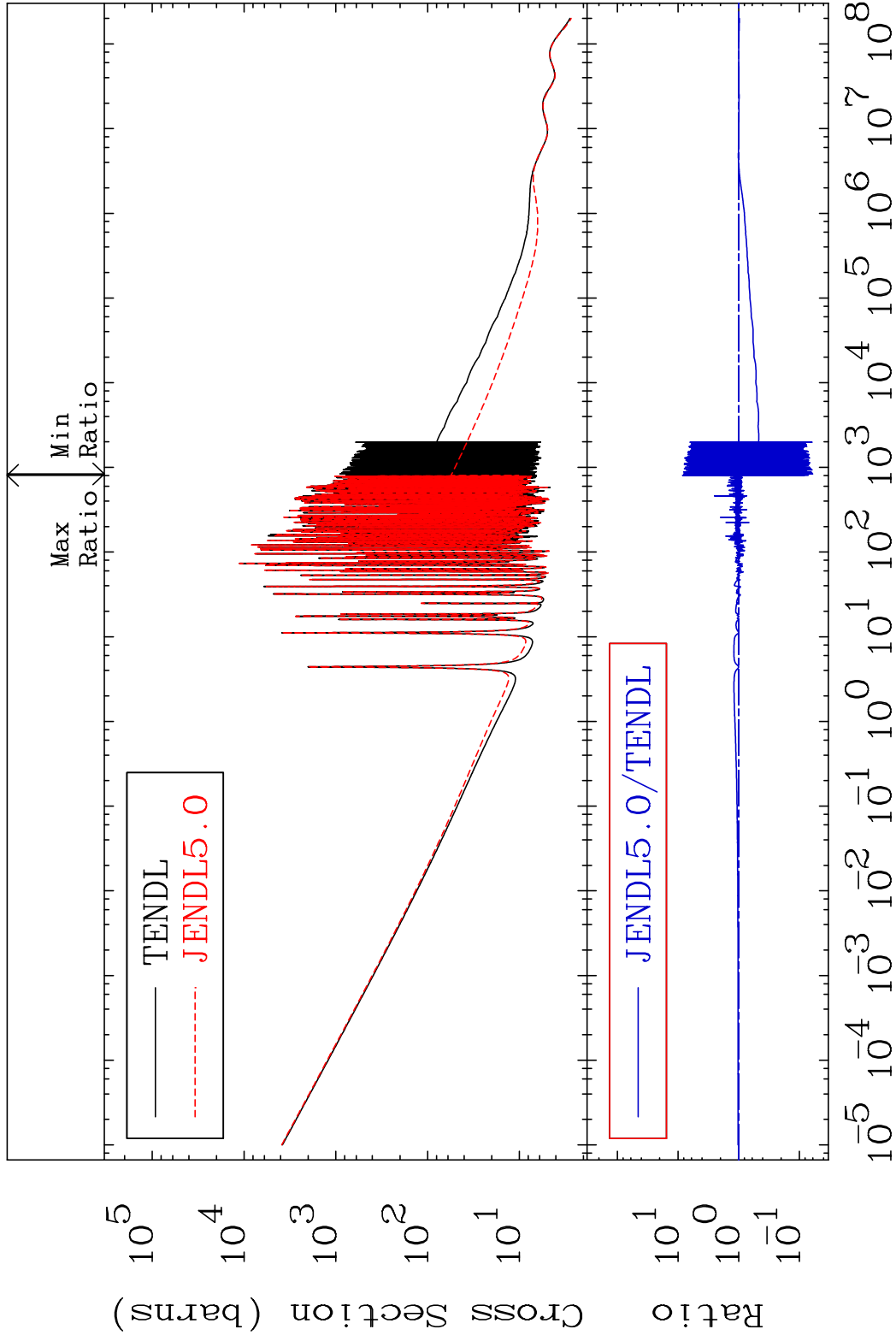
Press Mouse Button to Start

MAT 7531

Total

75-Re-187

Cross Section -93.95 To 746.2 %



1

Incident Energy (eV)

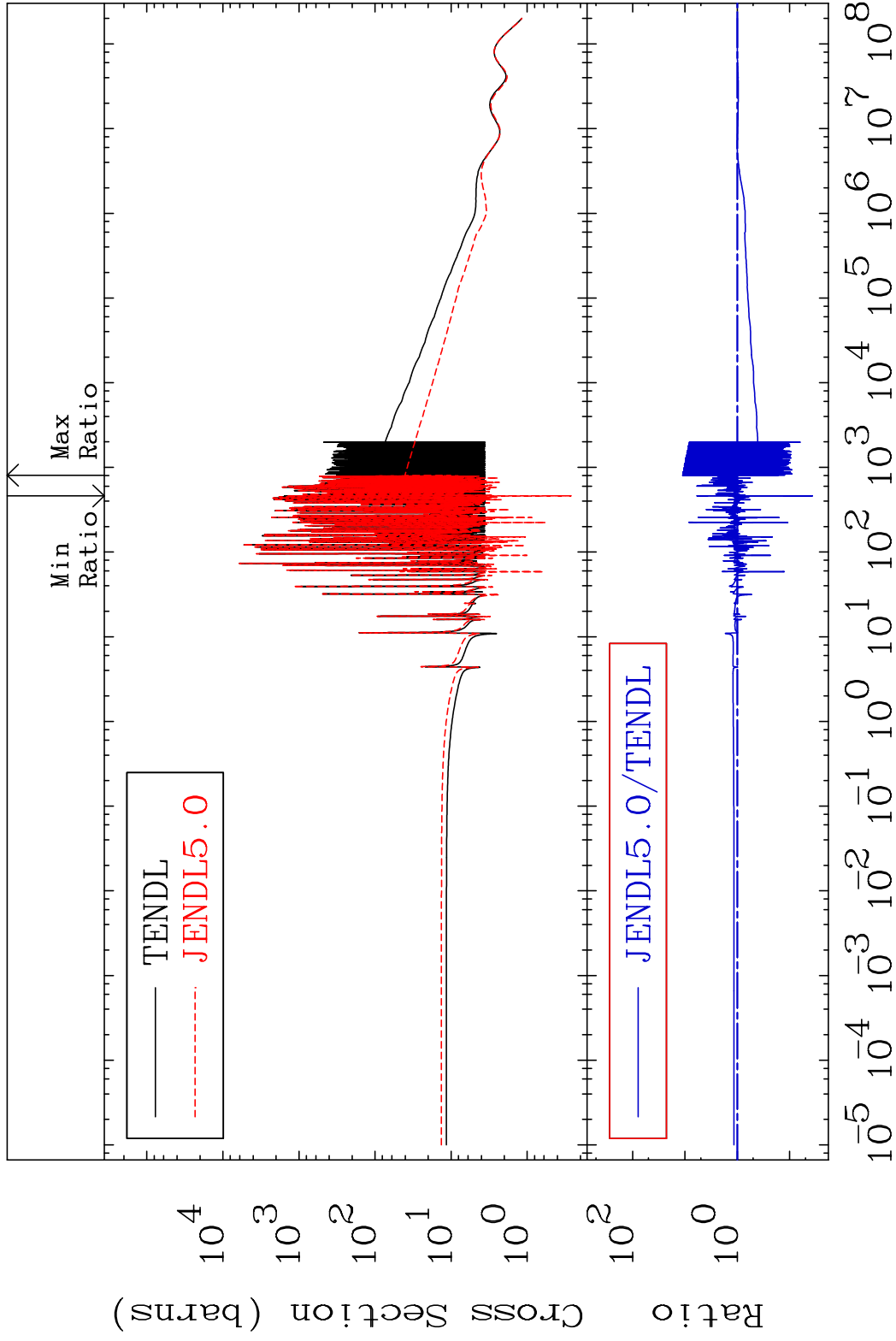
75-Re-187

MAT 7531

Elastic

75-Re-187

Cross Section -96.35 To 1023. %

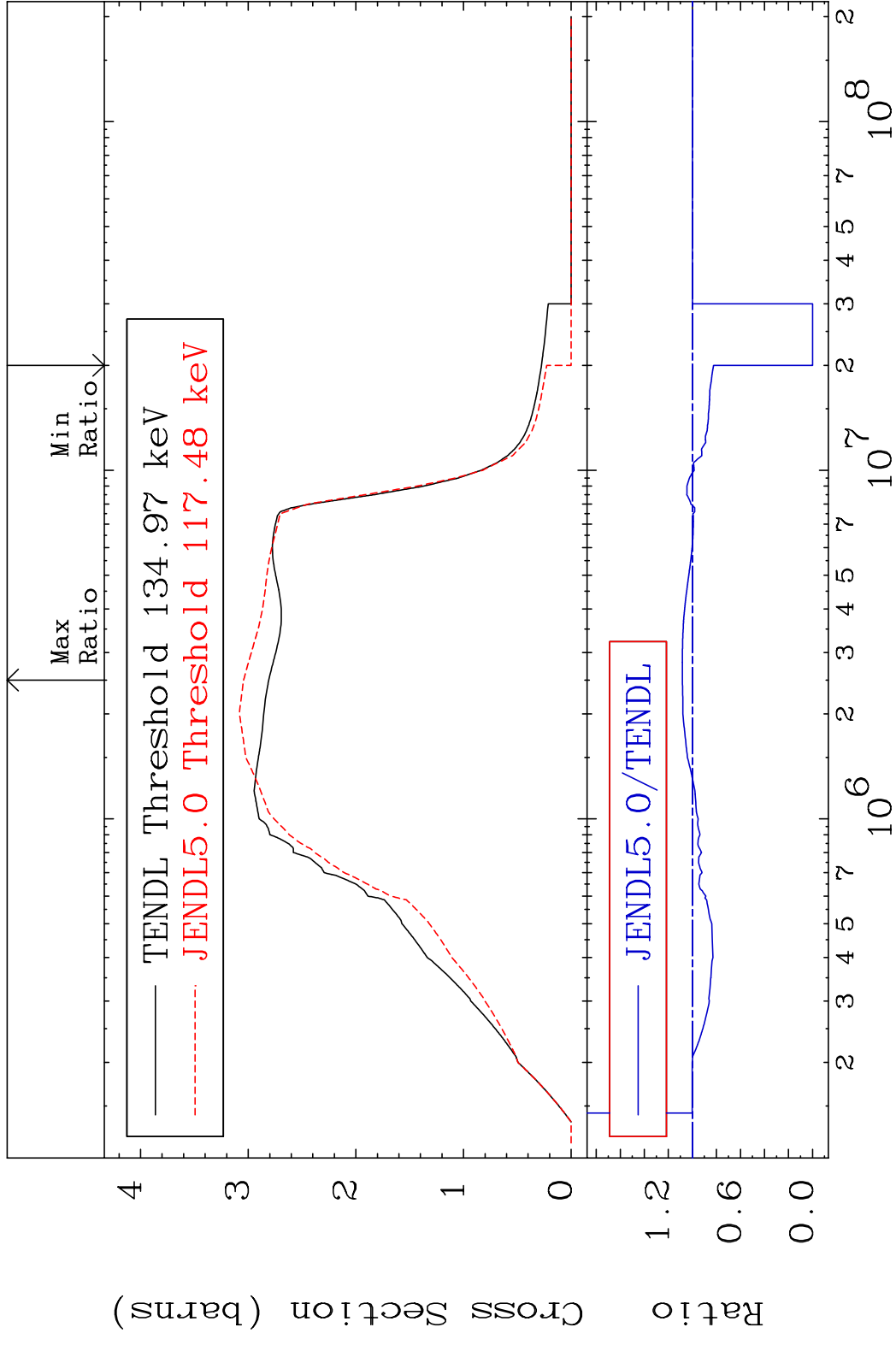


2

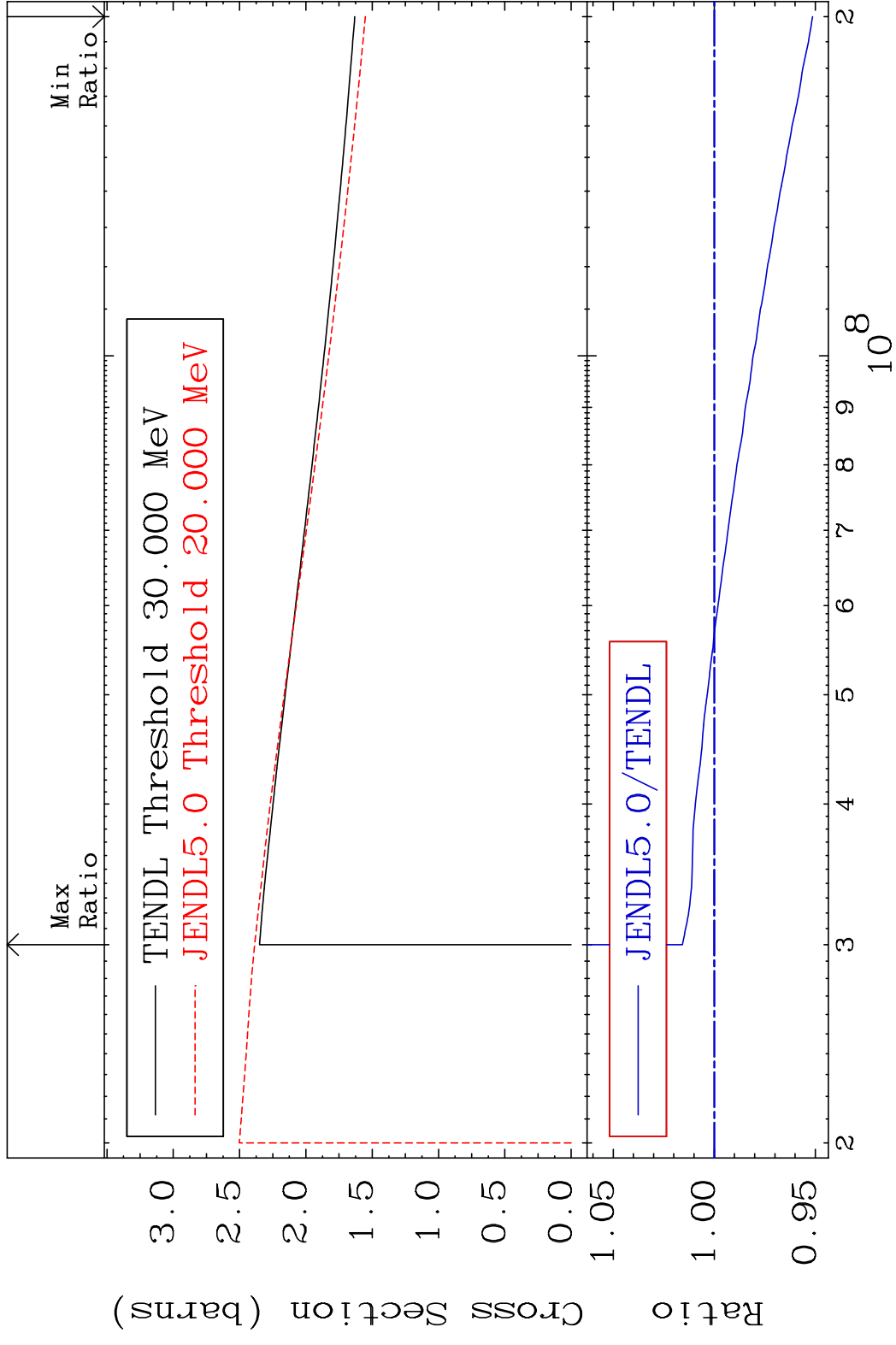
Incident Energy (eV)

75-Re-187

MAT 7531 Inelastic 75-Re-187  
 Cross Section -100.0 To 8.329 %



MAT 7531 (n, remainder) 75-Re-187  
 Cross Section -4.864 To 1.578 %



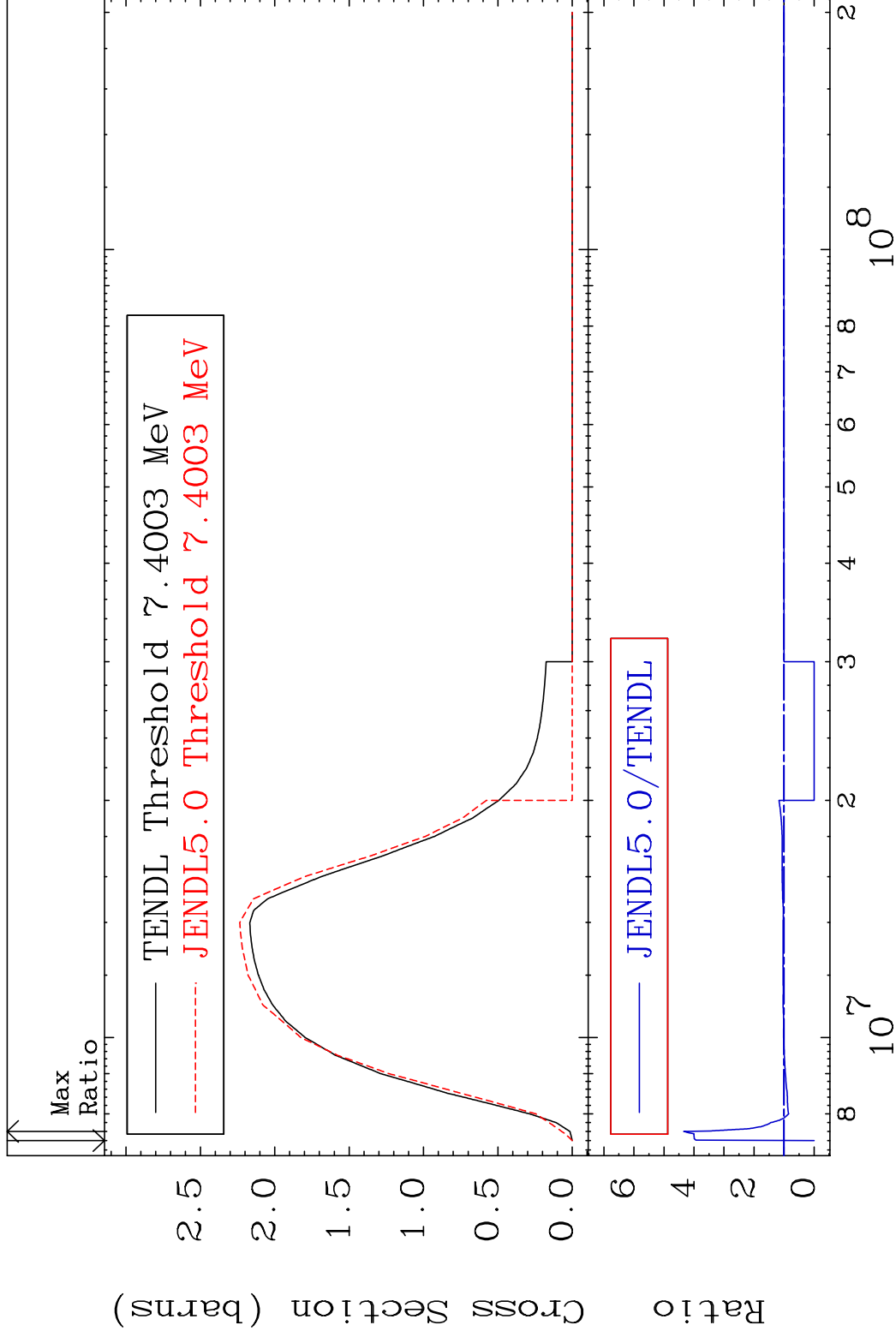
4 Incident Energy (eV) 75-Re-187

MAT 7531

(n,2n)

75-Re-187

Cross Section -100.0 To 334.4 %



5

Incident Energy (eV)

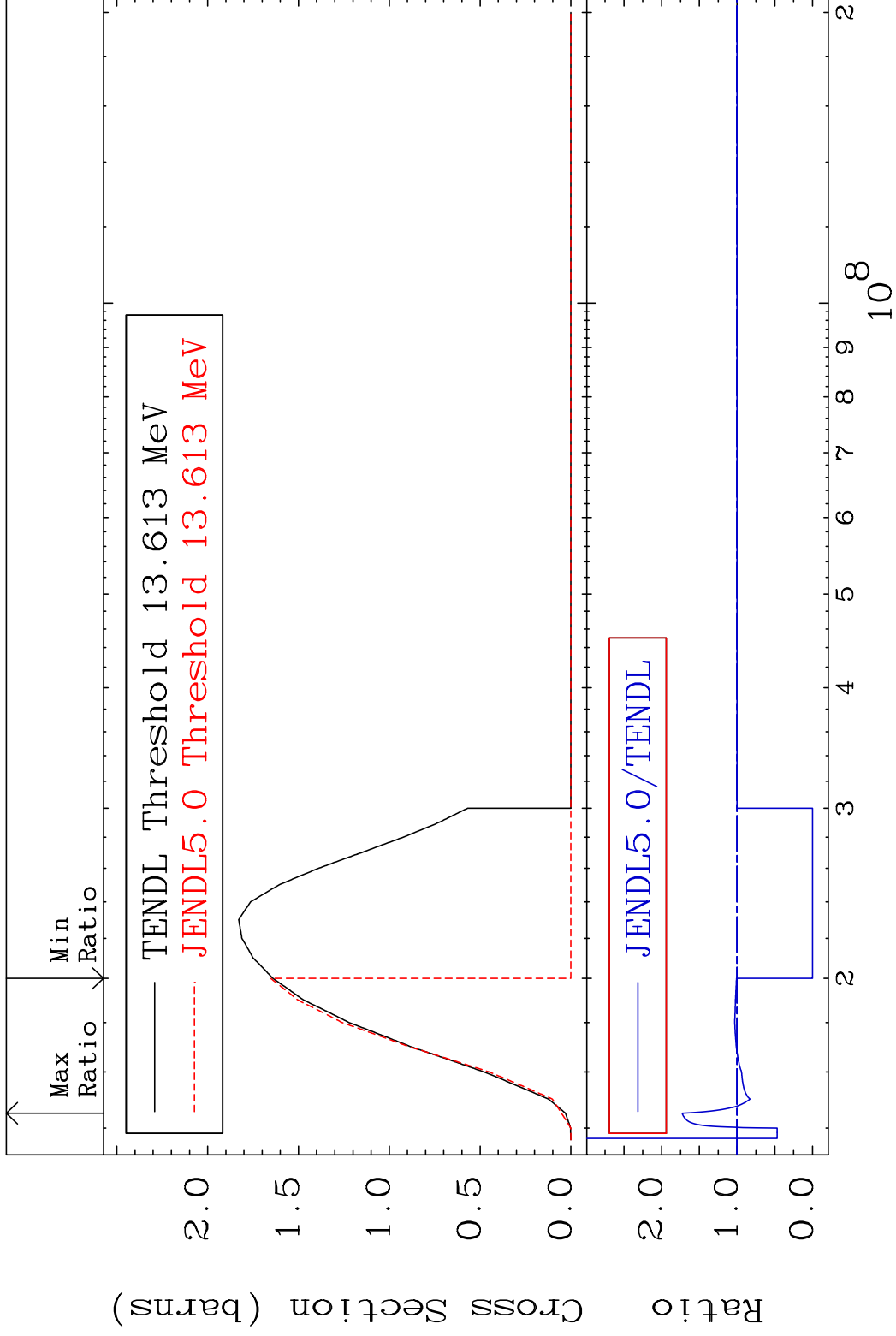
75-Re-187

MAT 7531

(n,3n)

75-Re-187

Cross Section -100.0 To 72.79 %



6

Incident Energy (eV)

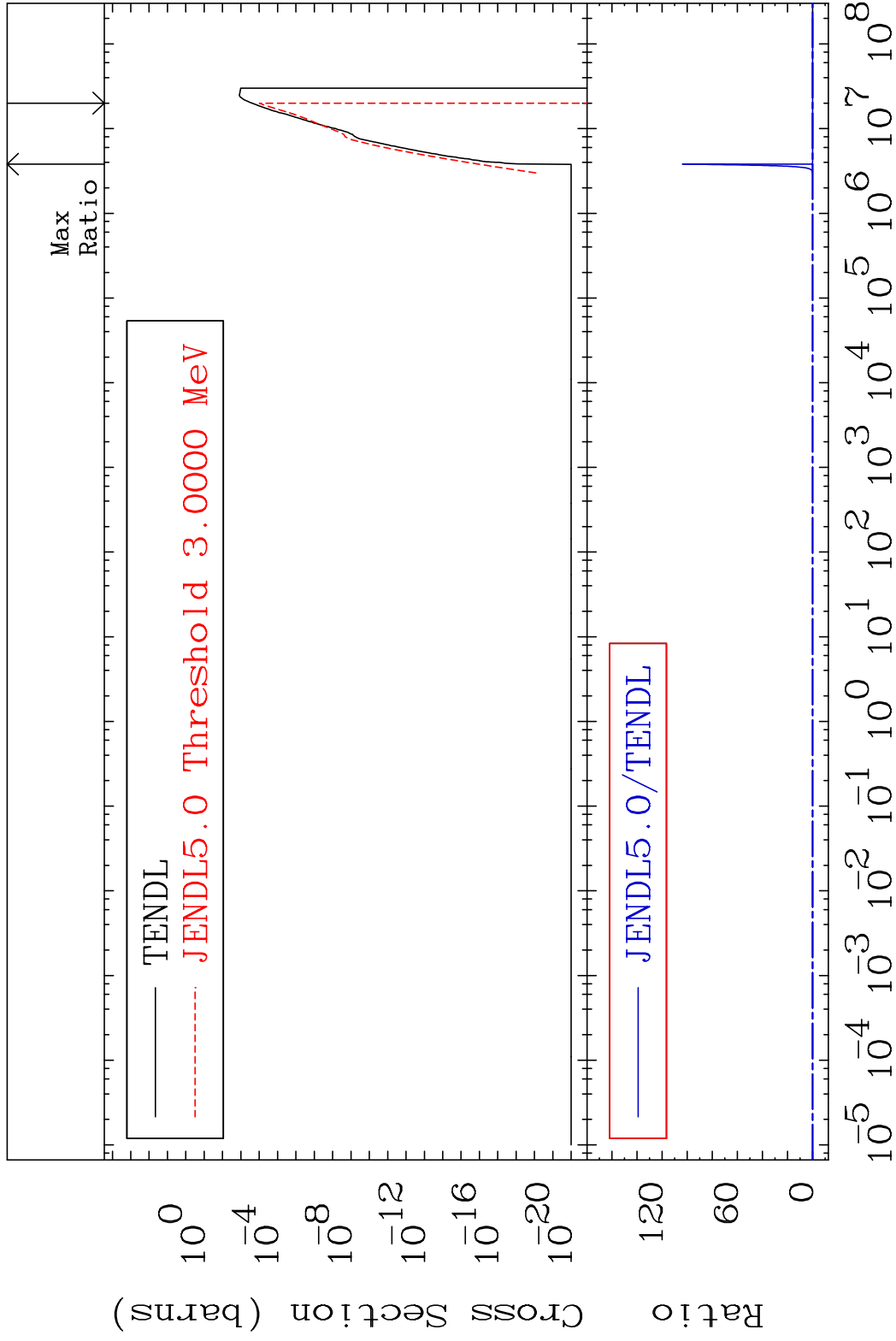
75-Re-187

MAT 7531

(n, n')  $\alpha$

75-Re-187

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

75-Re-187

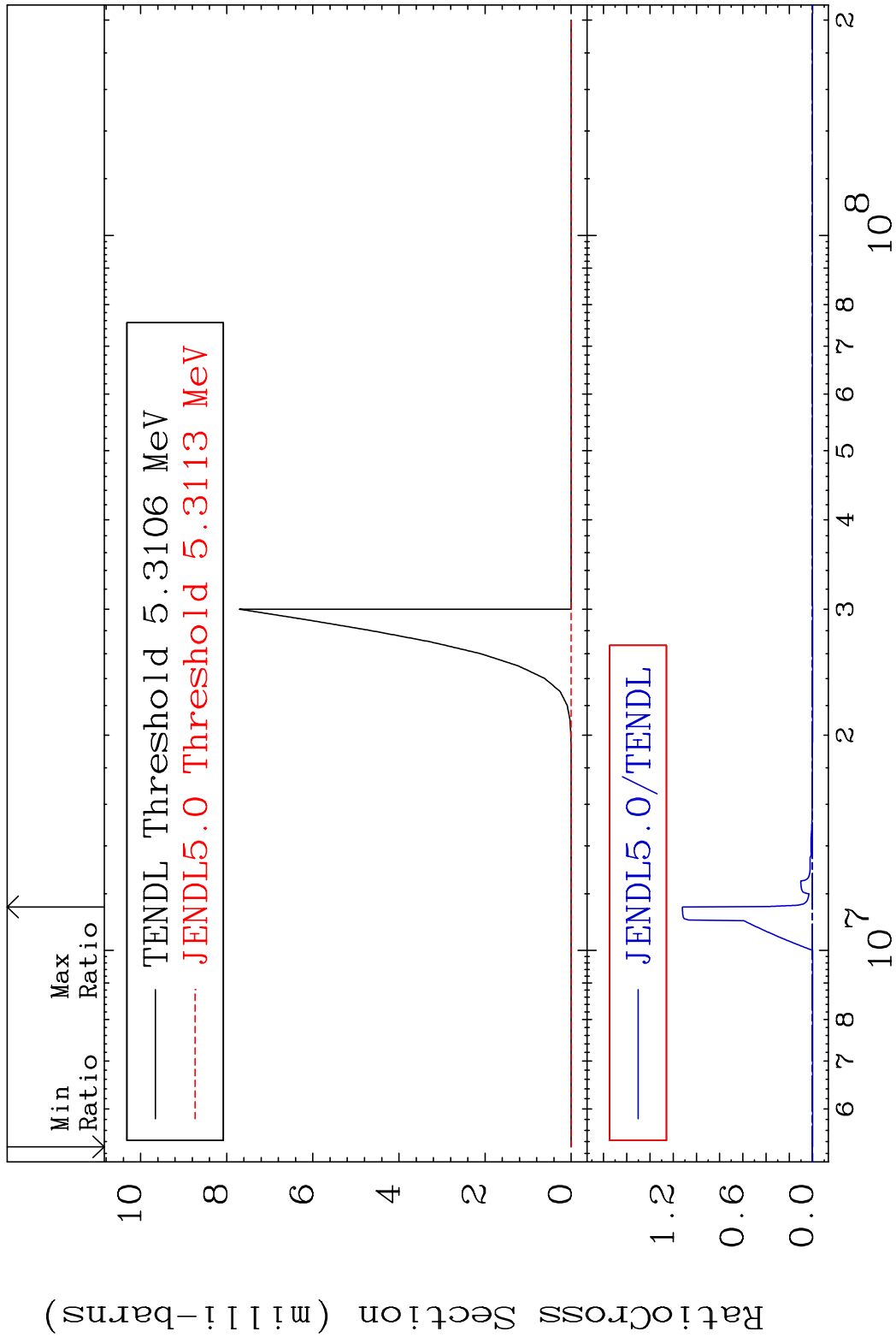


MAT 7531

(n,2n)  $\alpha$

75-Re-187

Cross Section -100.0 To 9999. %

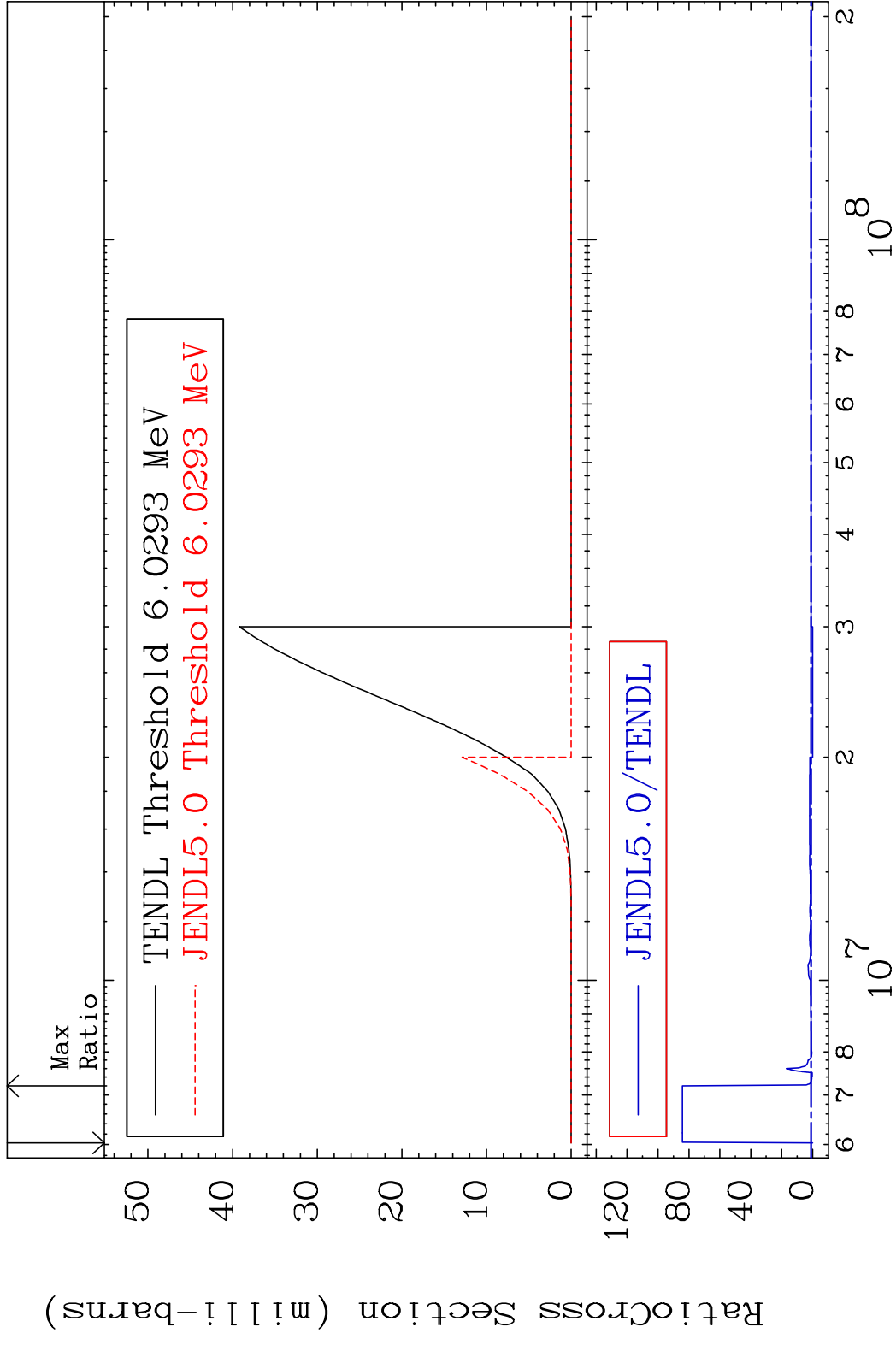


8

Incident Energy (eV)

75-Re-187

MAT 7531 (n, n') p 75-Re-187  
 Cross Section -100.0 To 8323. %

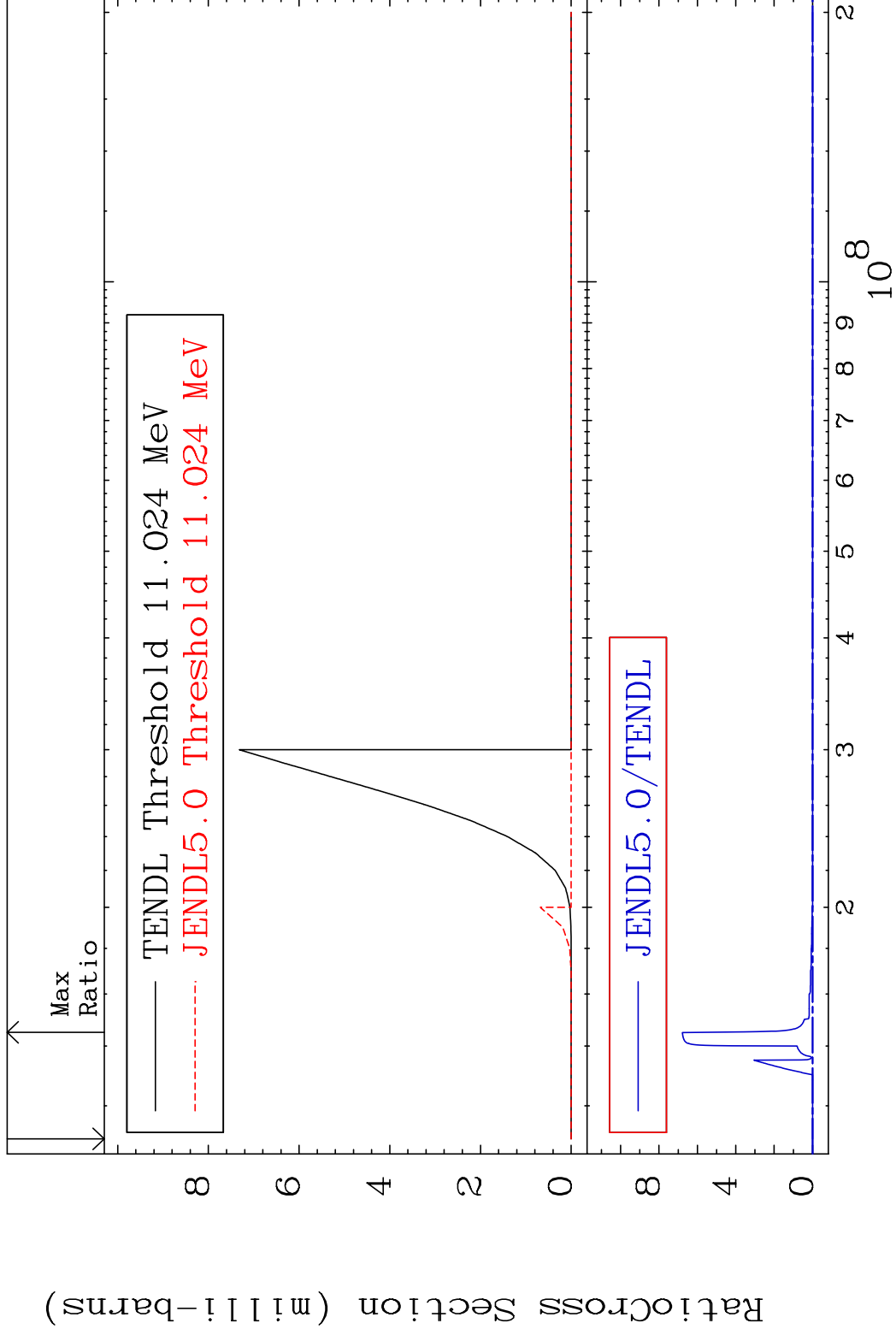


MAT 7531

(n, n') d

75-Re-187

Cross Section -100.0 To 9999. %

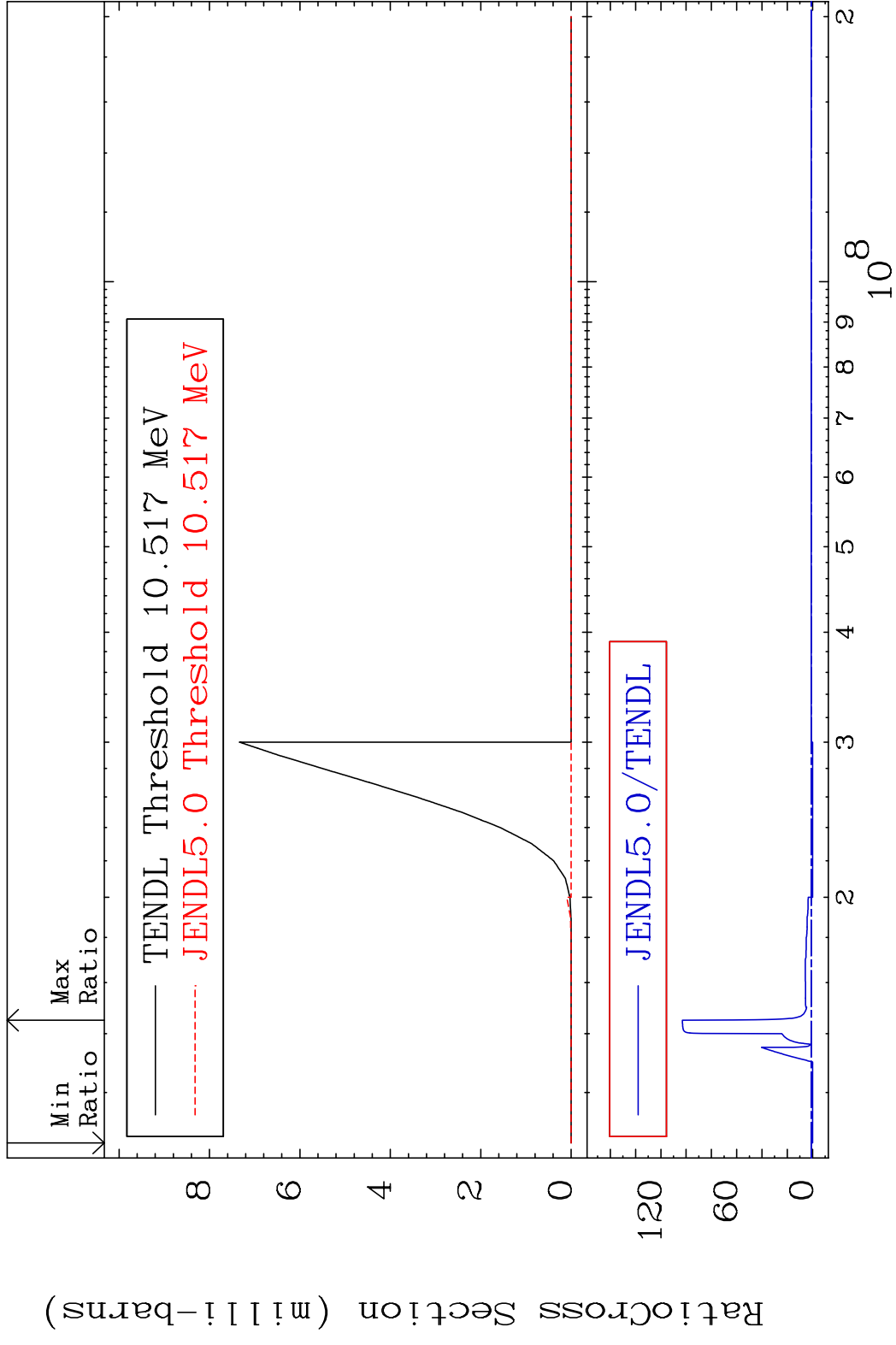


10

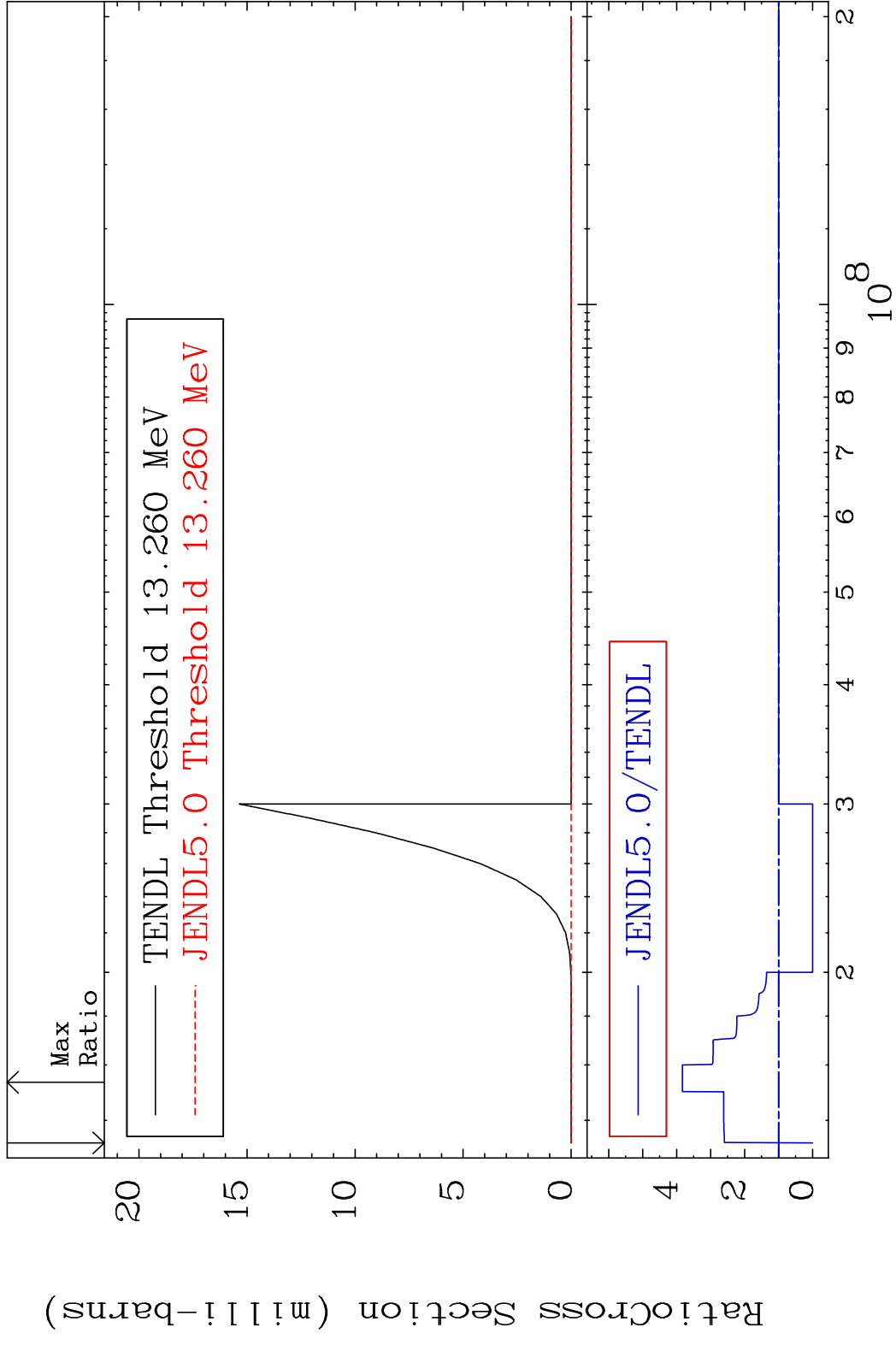
Incident Energy (eV)

75-Re-187

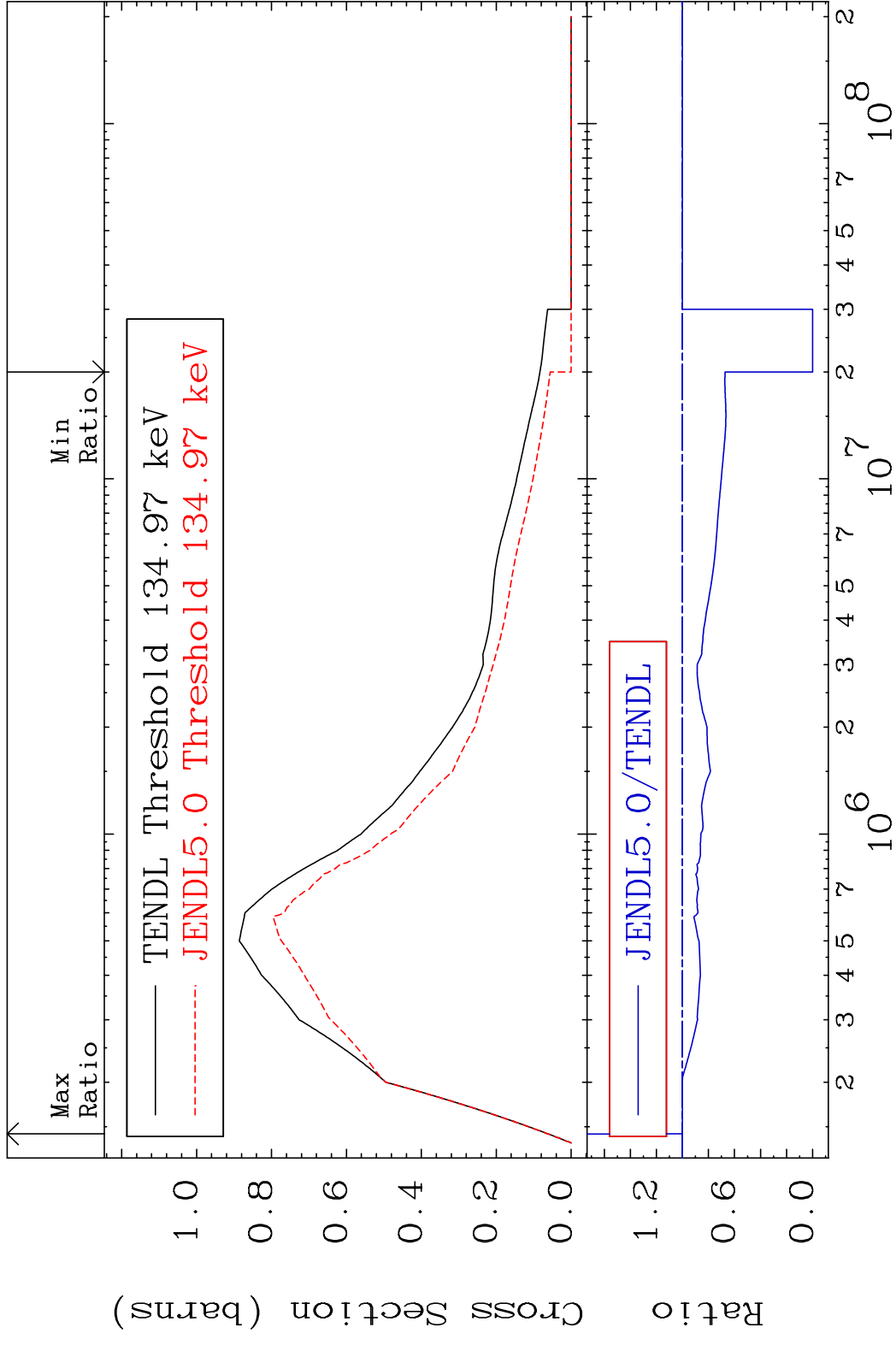
MAT 7531 (n, n') t 75-Re-187  
 Cross Section -100.0 To 9999. %



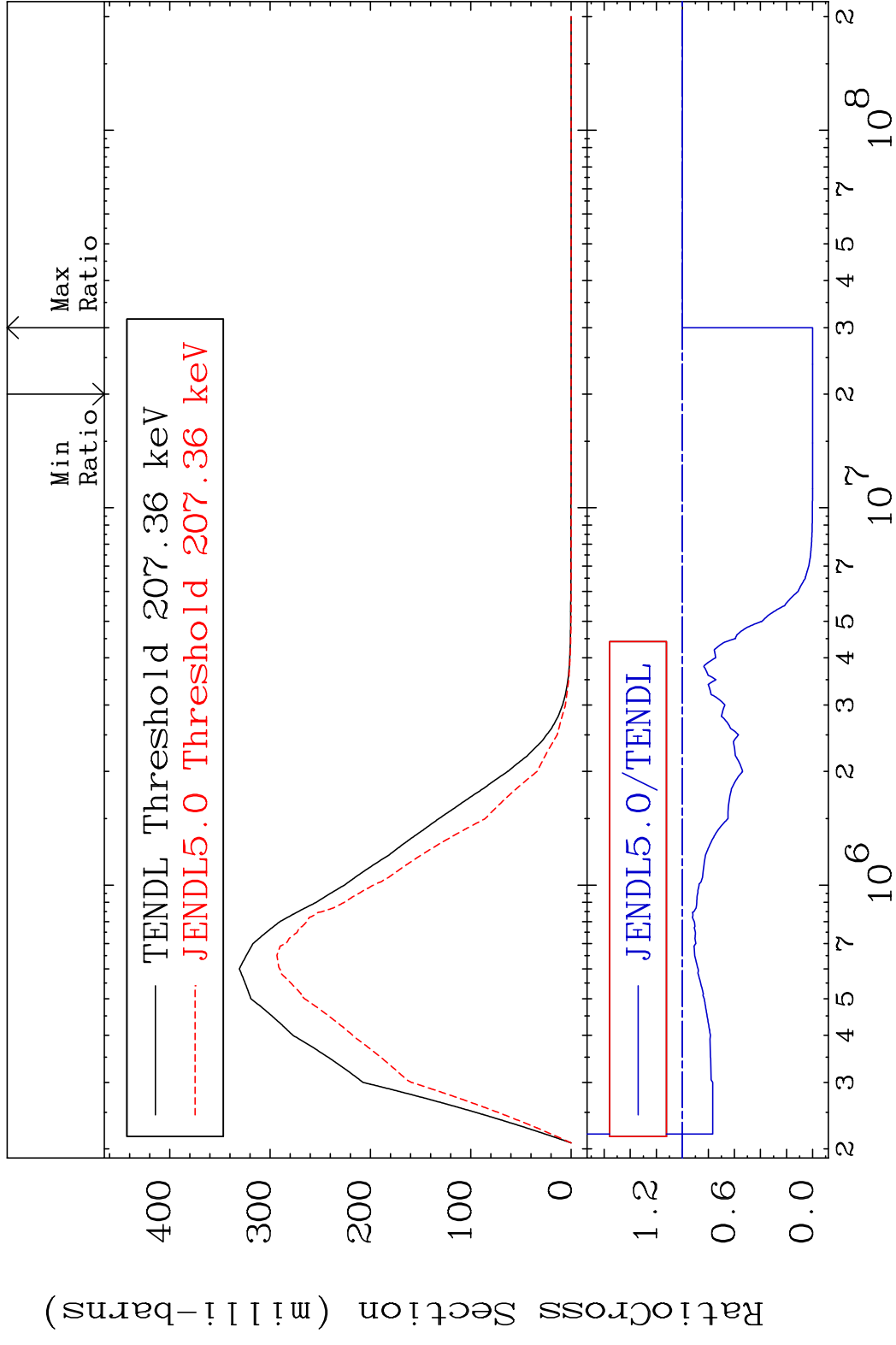
MAT 7531 (n,2n) p 75-Re-187  
 Cross Section -100.0 To 283.2 %



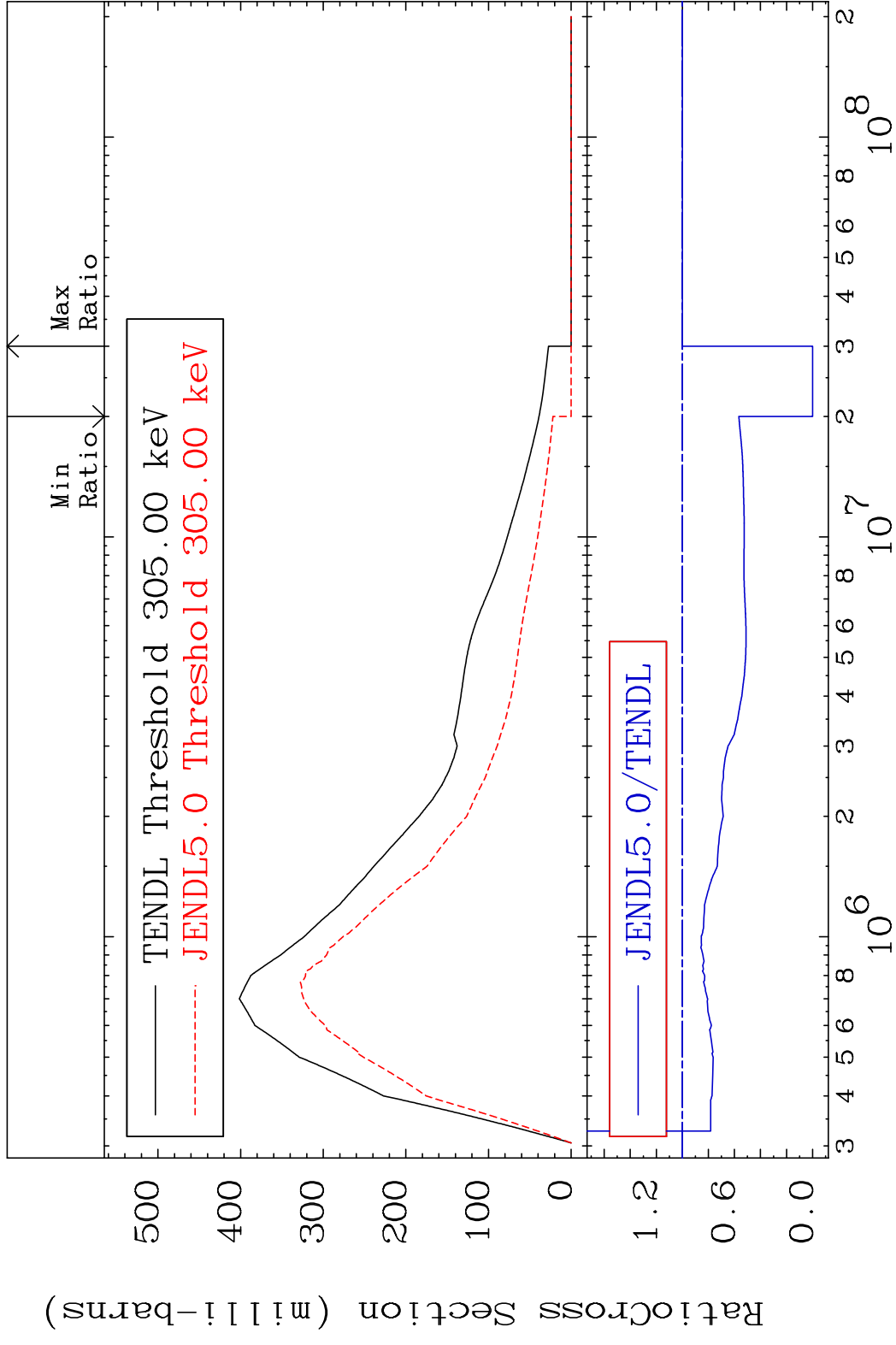
MAT 7531 MT= 51 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 0.078 %



MAT 7531 MT= 52 (n,n') Level 75-Re-187  
 Cross Section -100.0 To 0.000 %

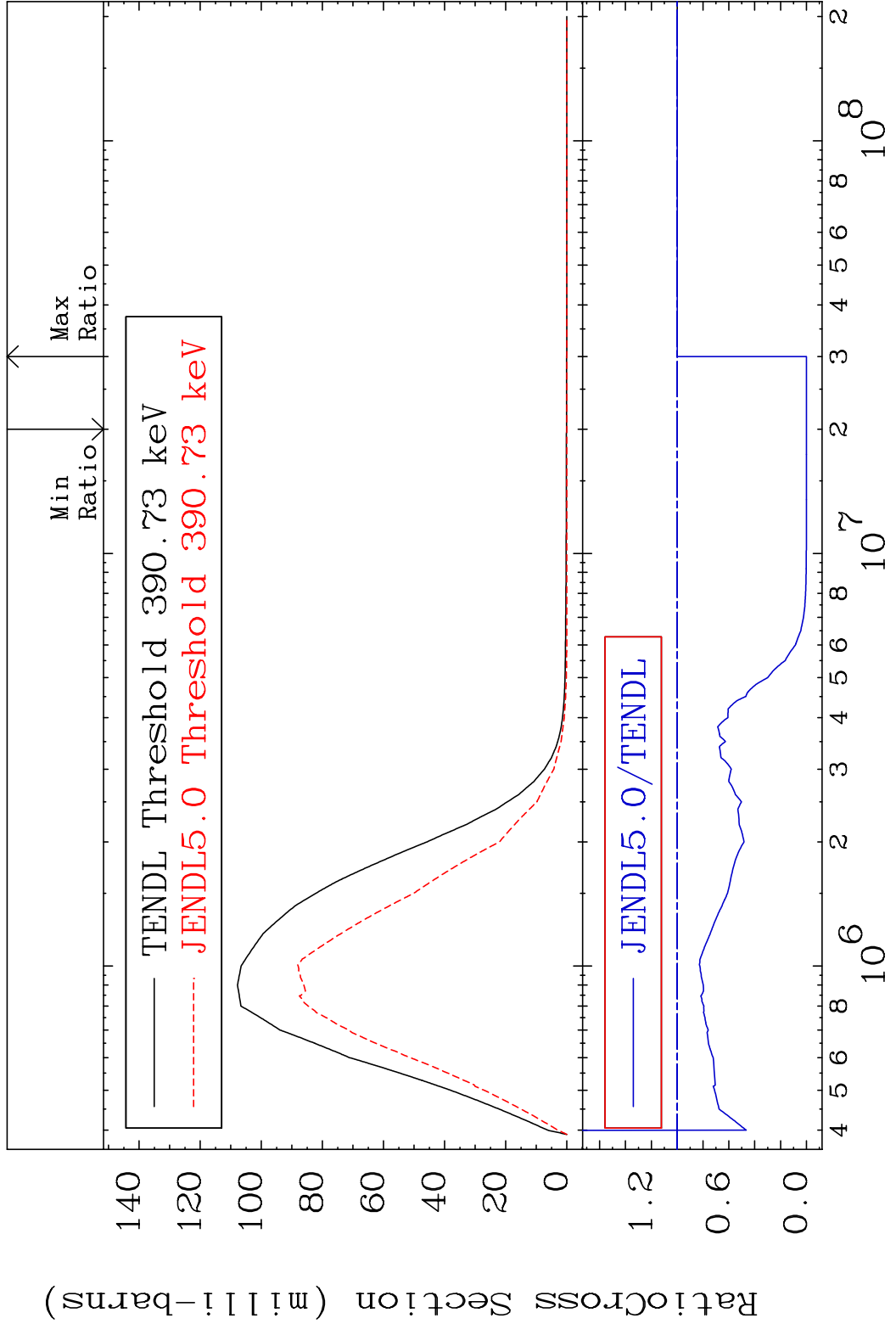


MAT 7531 MT= 53 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 0.000 %

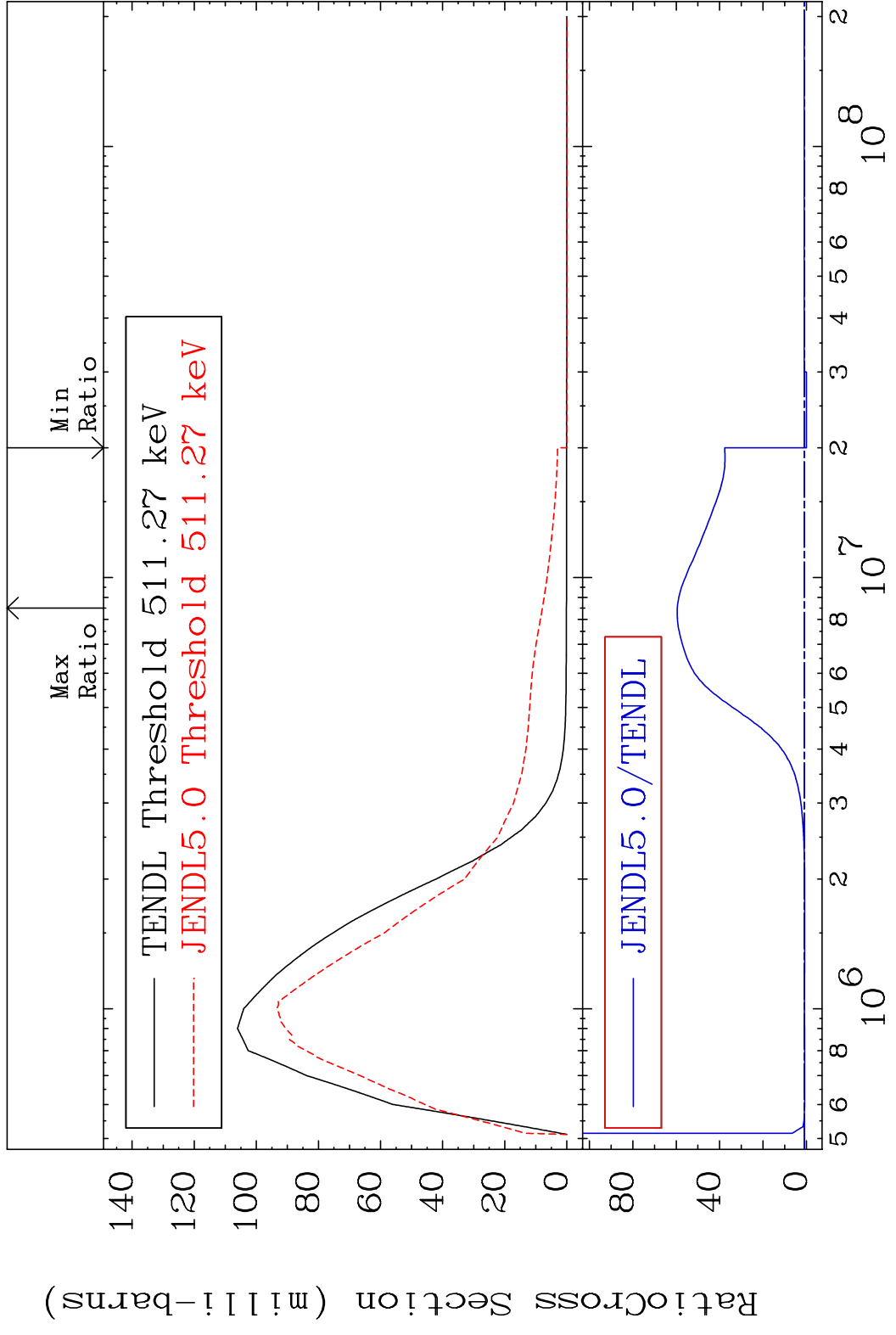




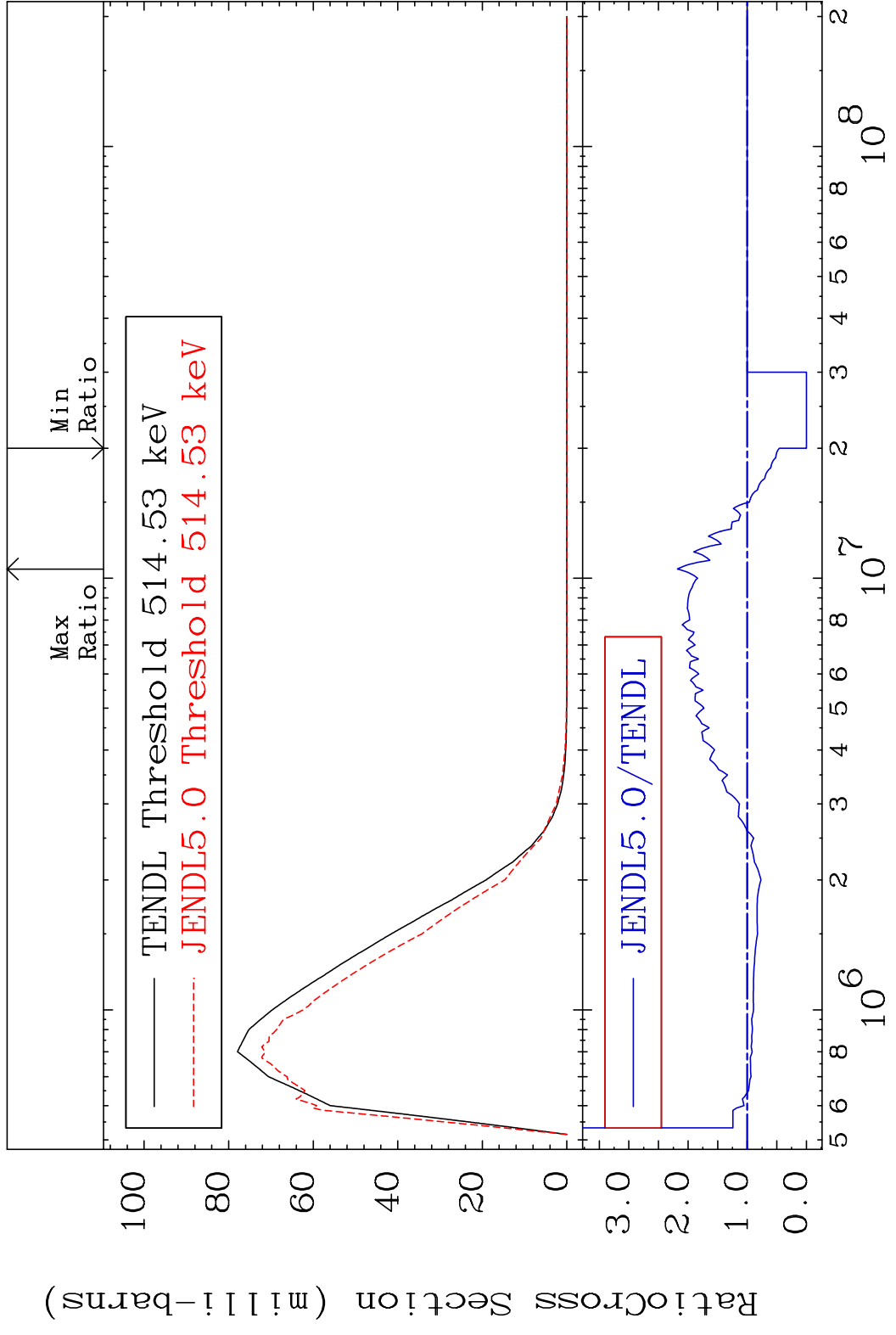
MAT 7531 MT= 54 (n,n') Level 75-Re-187  
 Cross Section -100.0 To 0.000 %



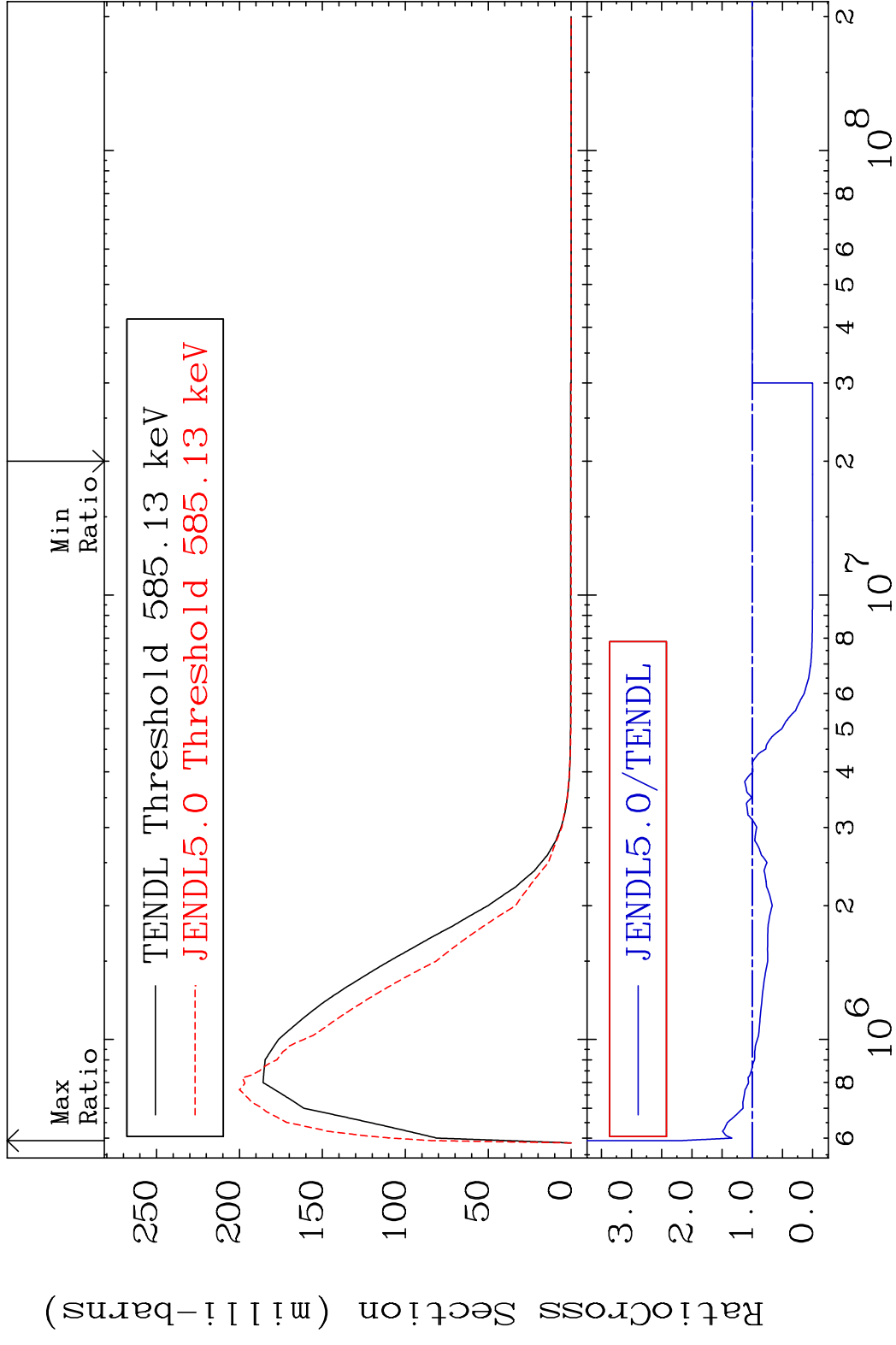
MAT 7531 MT= 55 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 5856. %



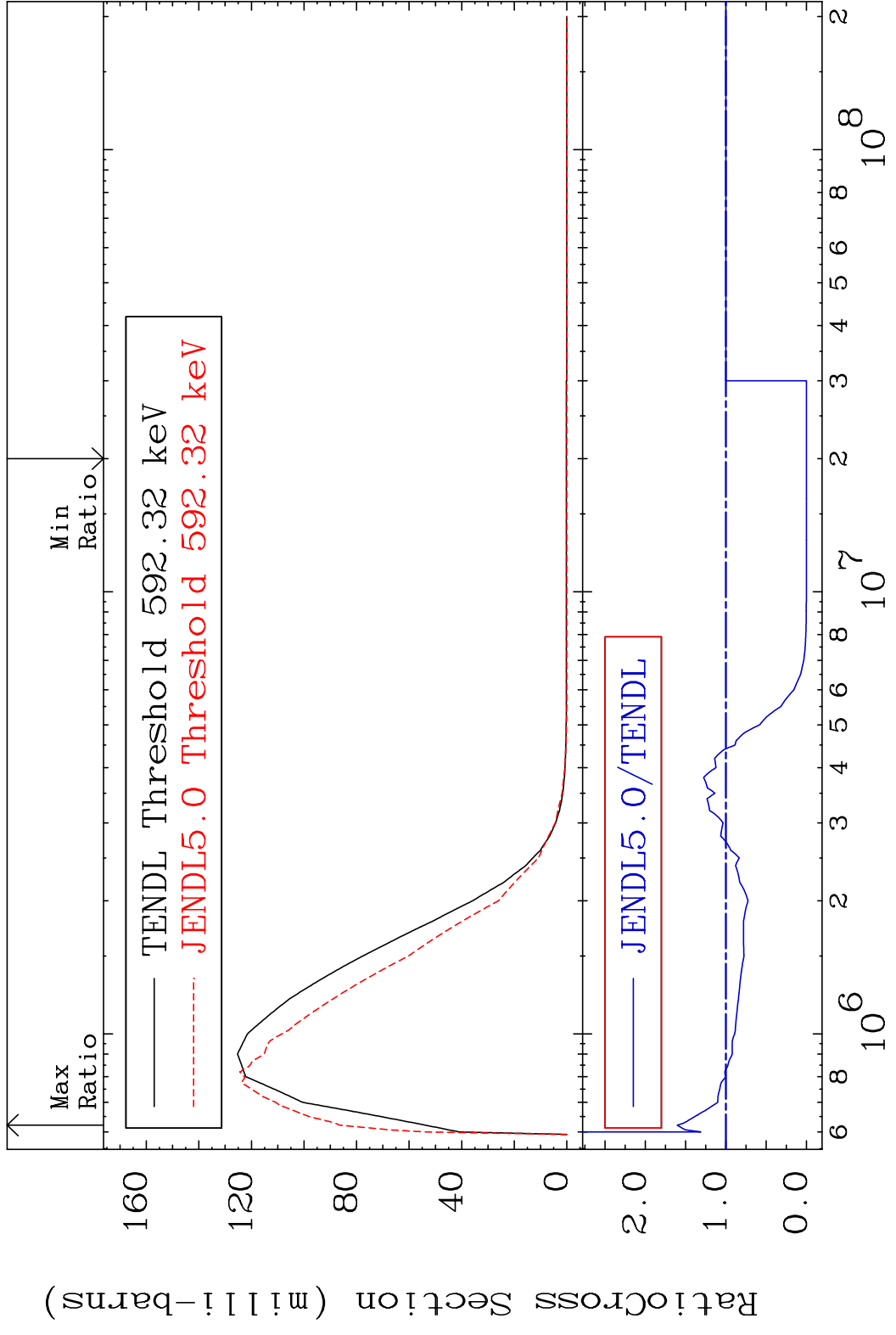
MAT 7531 MT= 56 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 118.4 %



MAT 7531 MT= 57 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 115.8 %

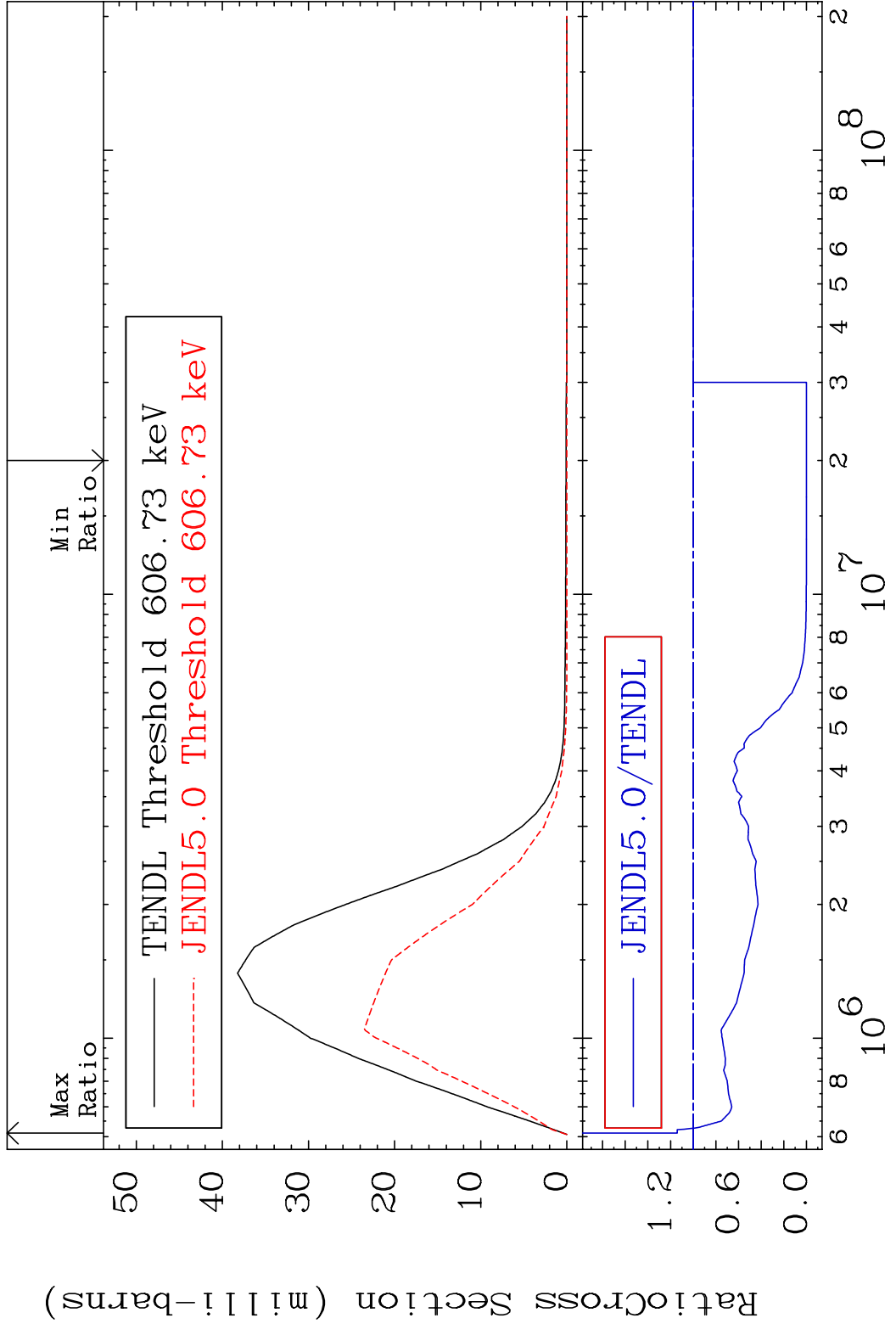


MAT 7531 MT= 58 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 60.44 %

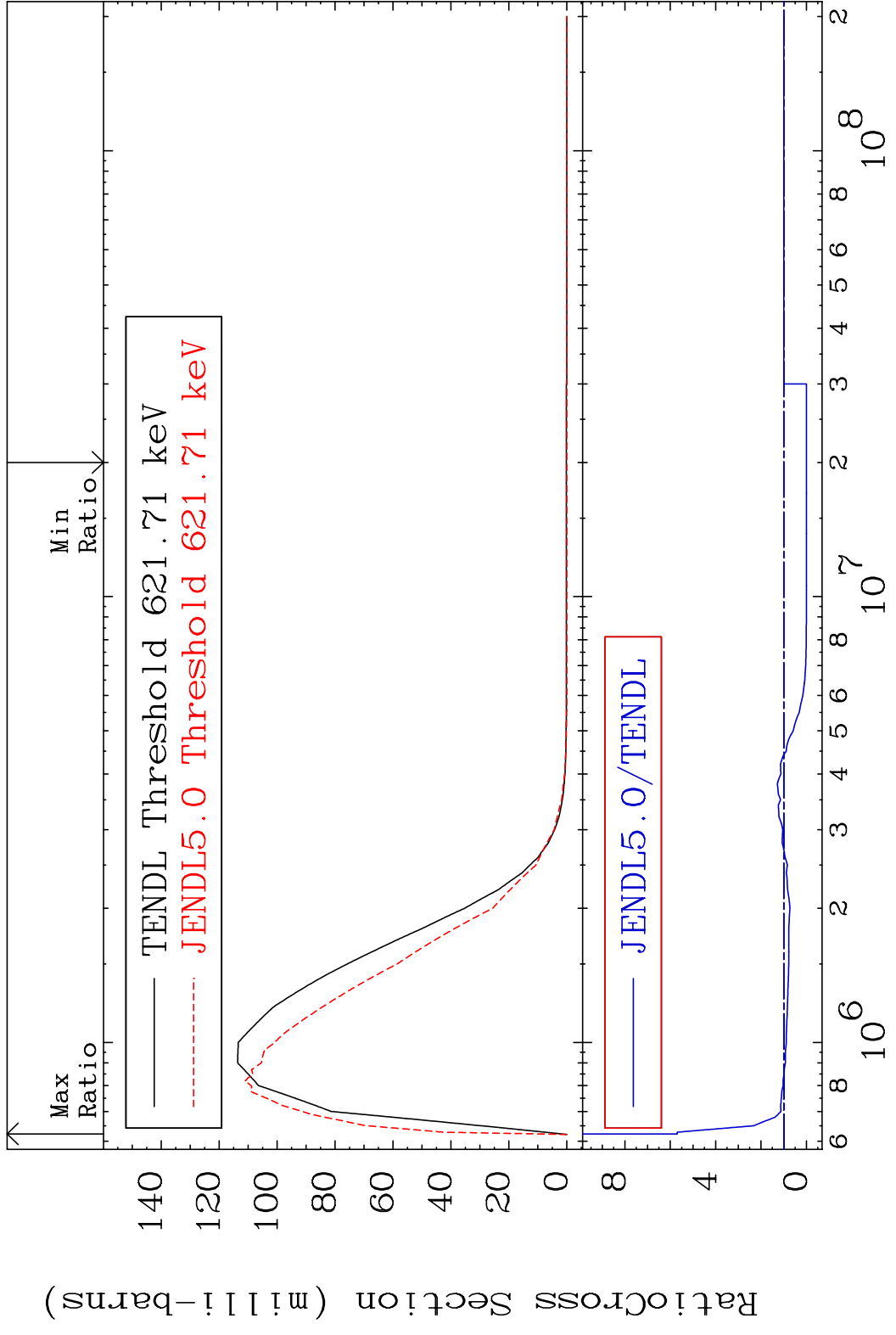


20 Incident Energy (eV) 75-Re-187

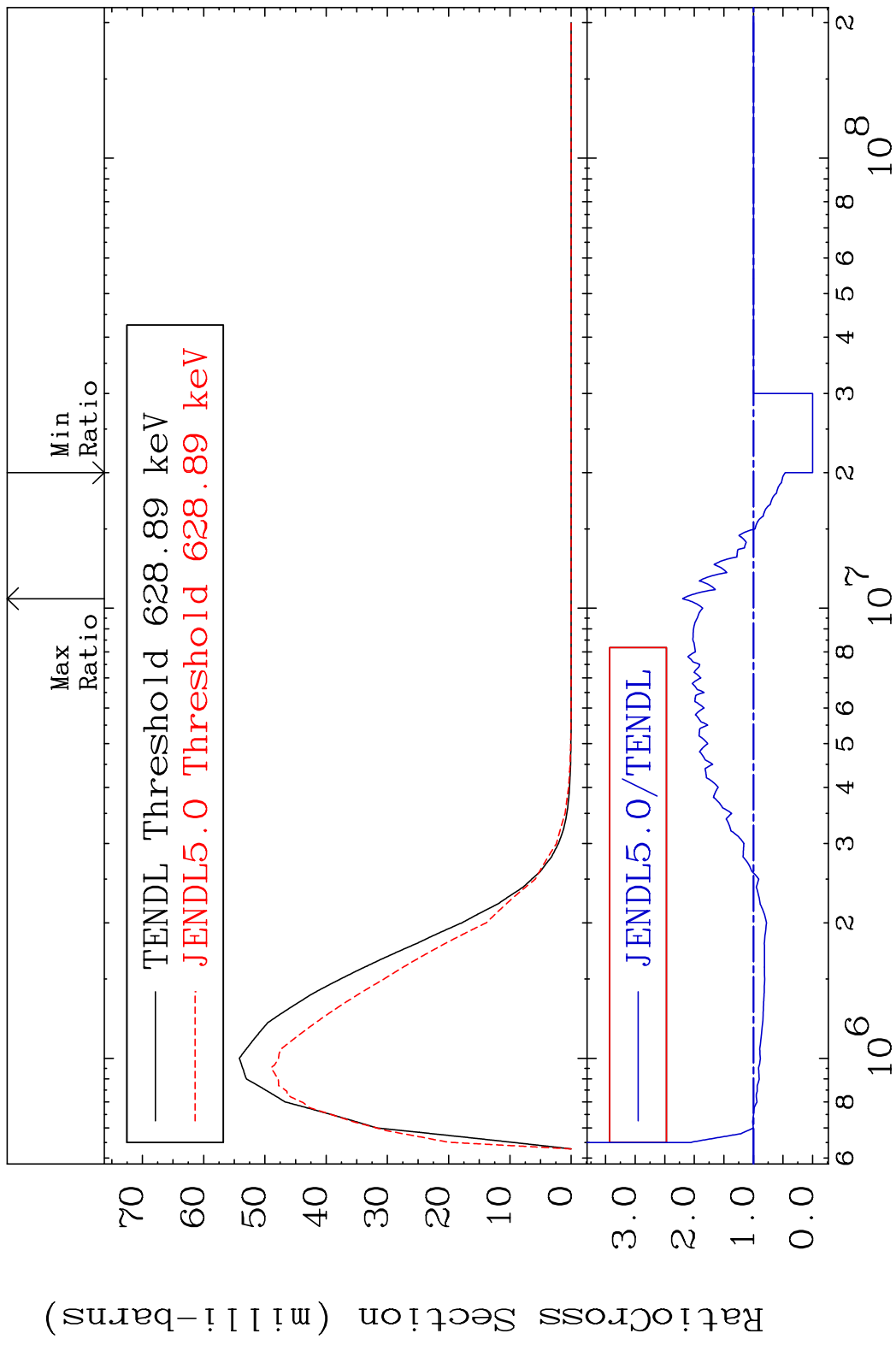
MAT 7531 MT= 59 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 14.14 %



MAT 7531 MT= 60 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 469.6 %

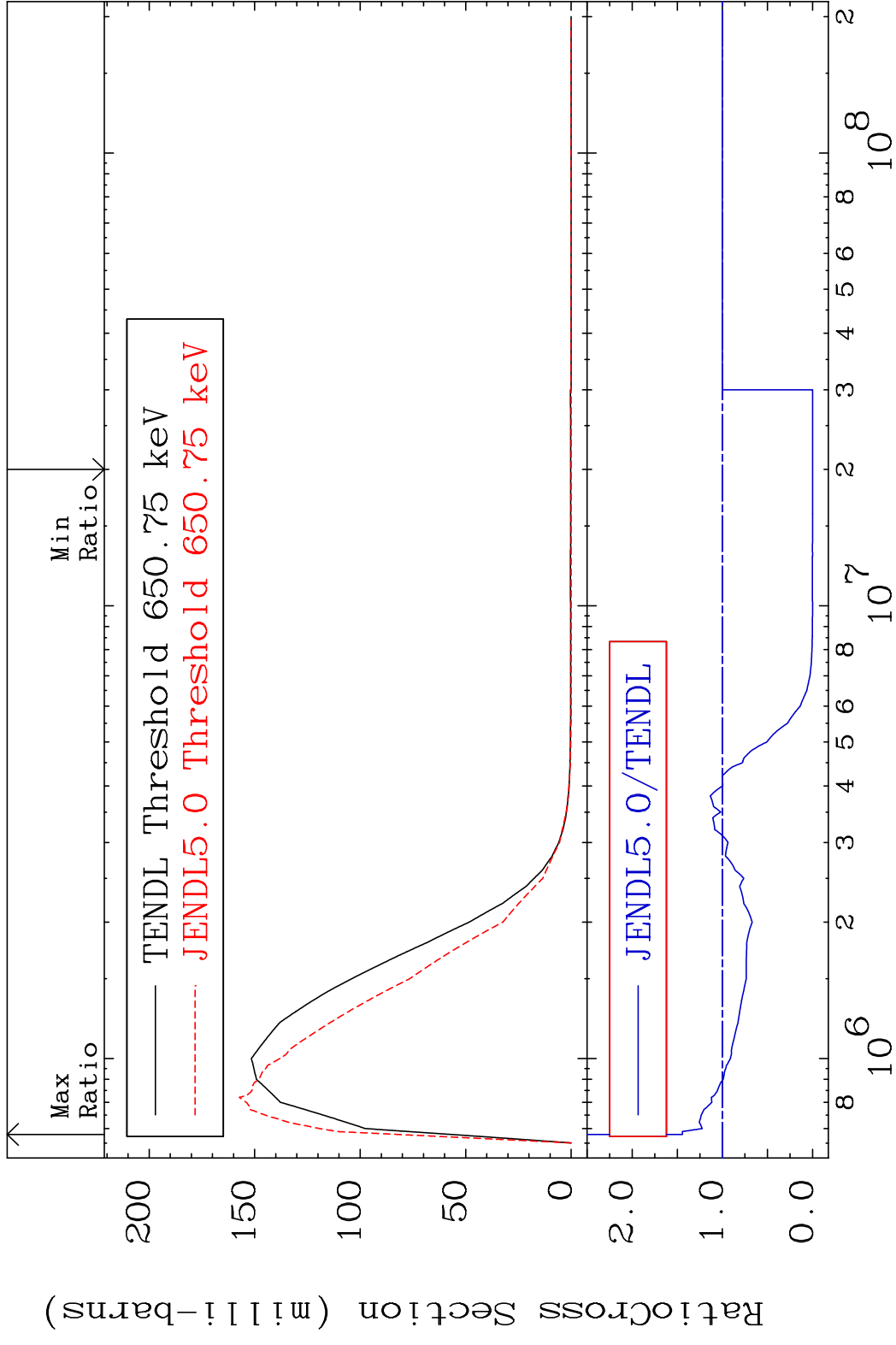


MAT 7531 MT= 61 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 120.2 %

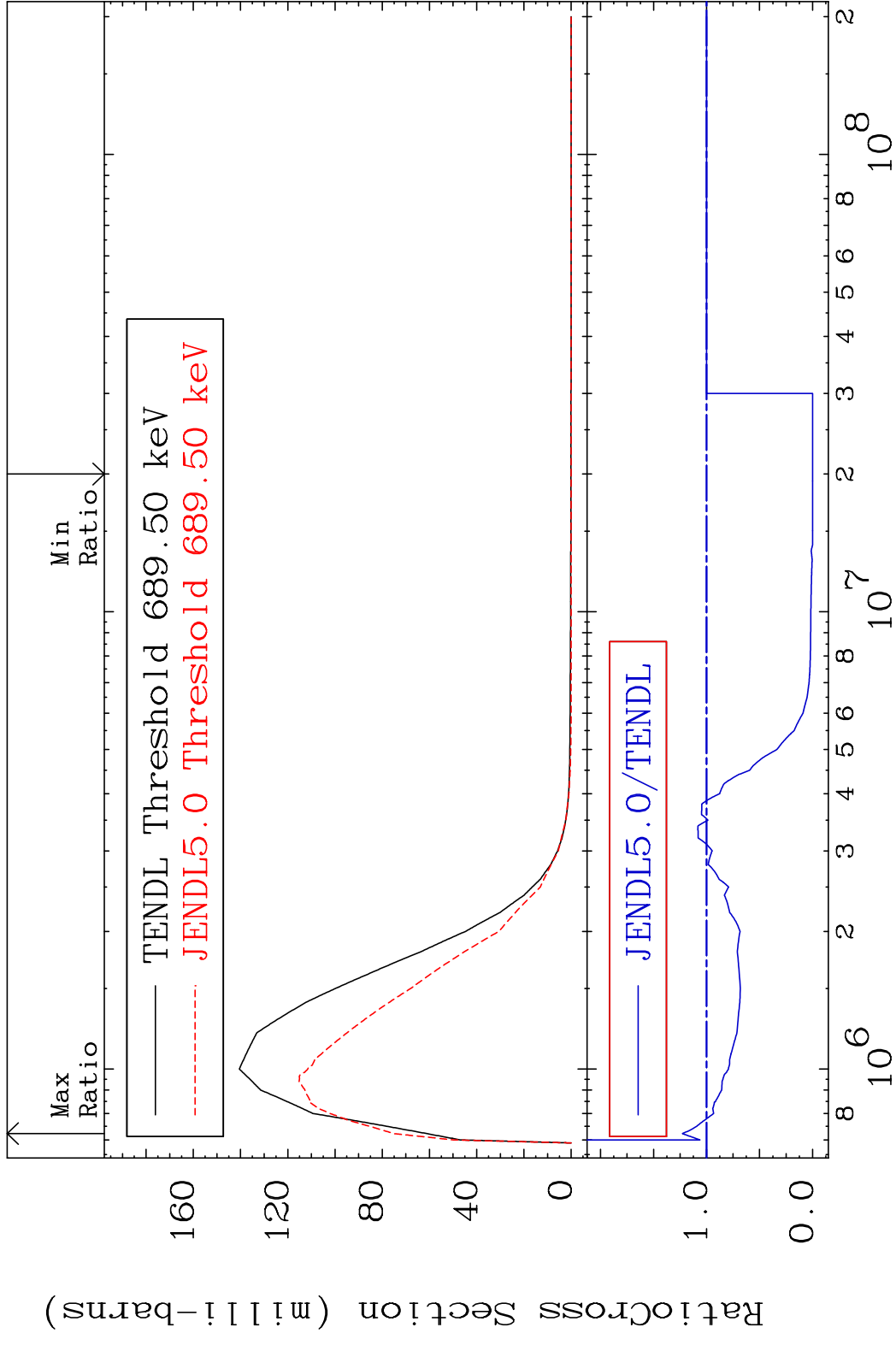




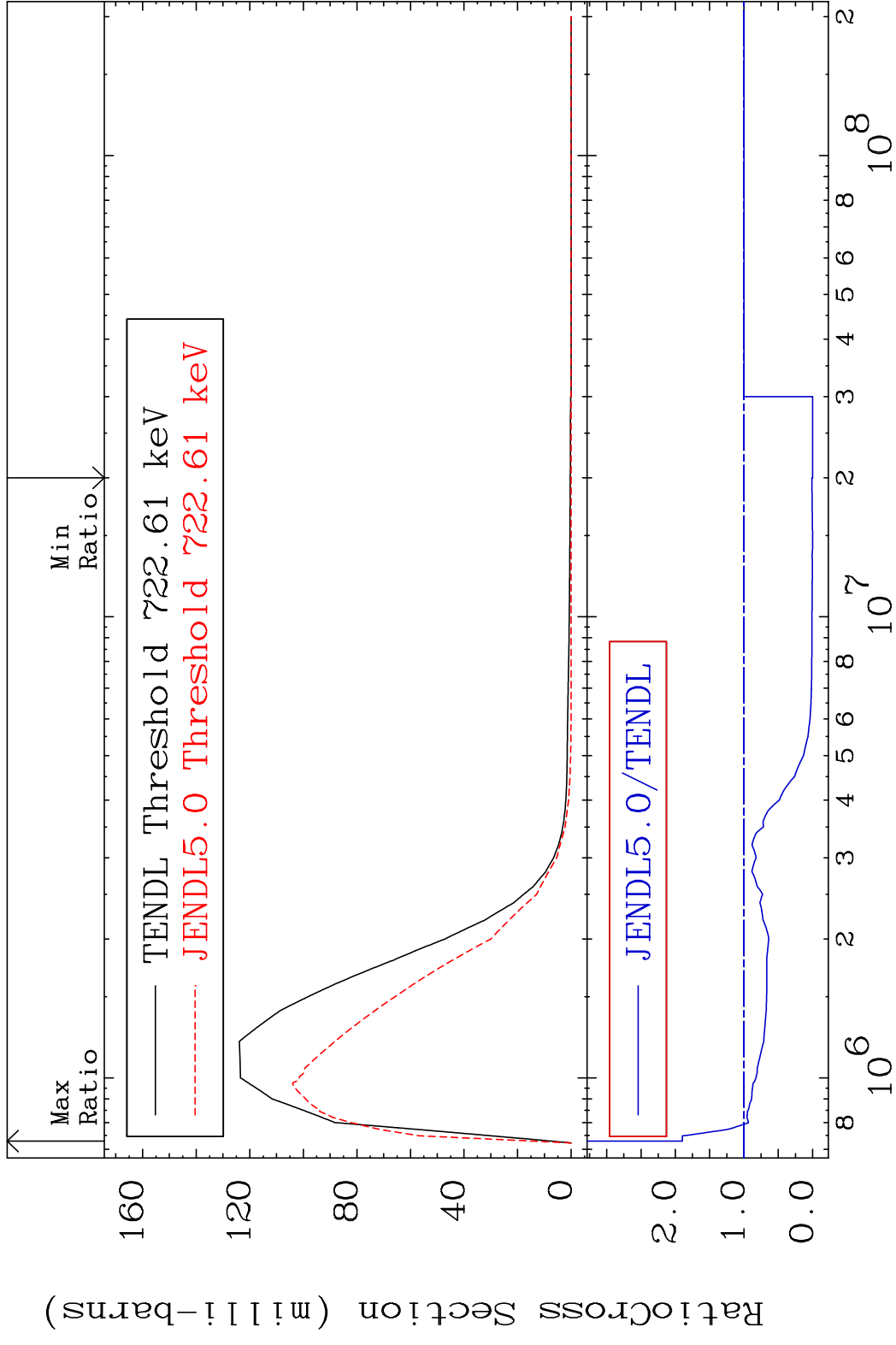
MAT 7531 MT= 62 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 44.41 %



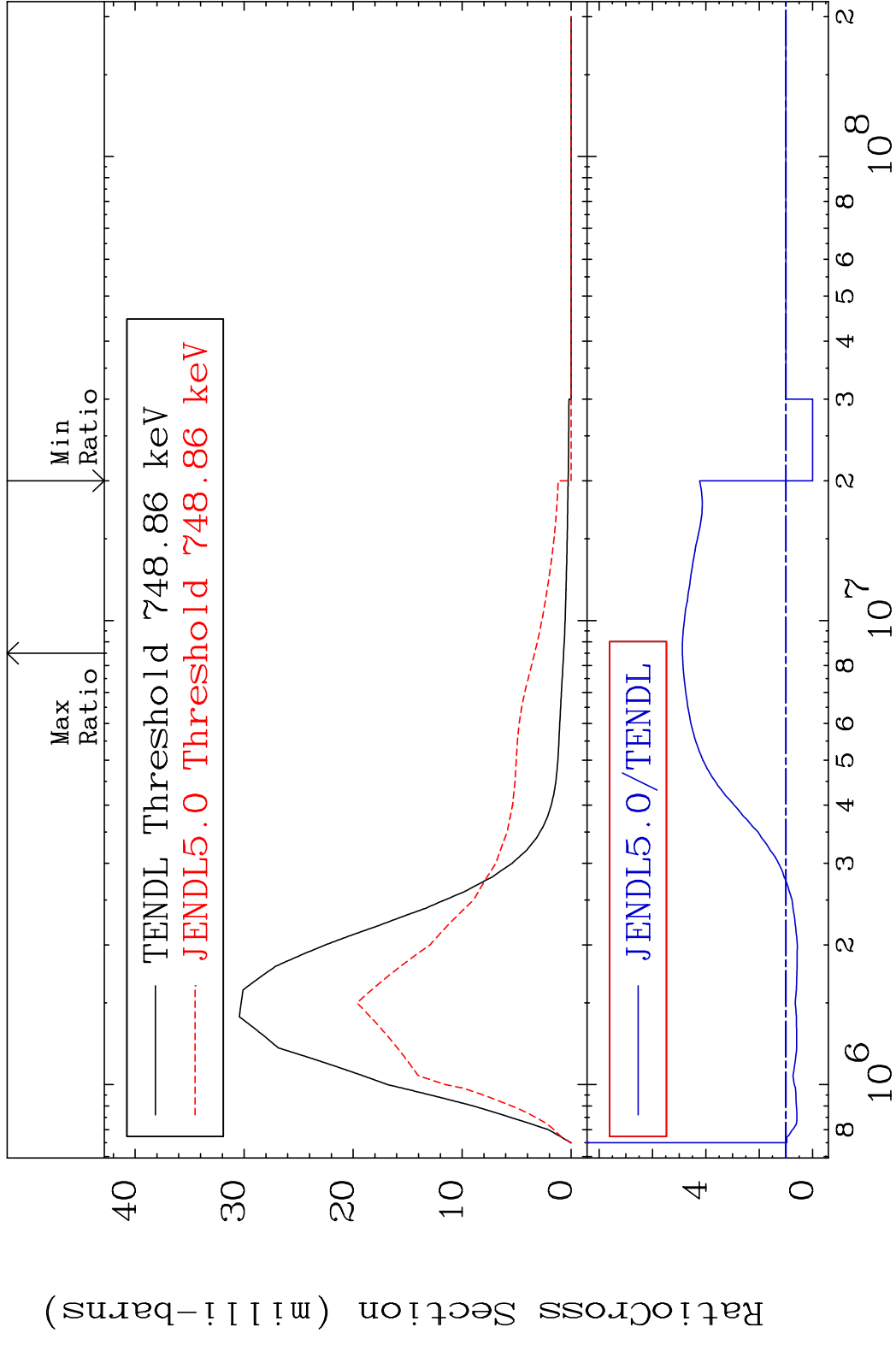
MAT 7531 MT= 63 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 22.85 %



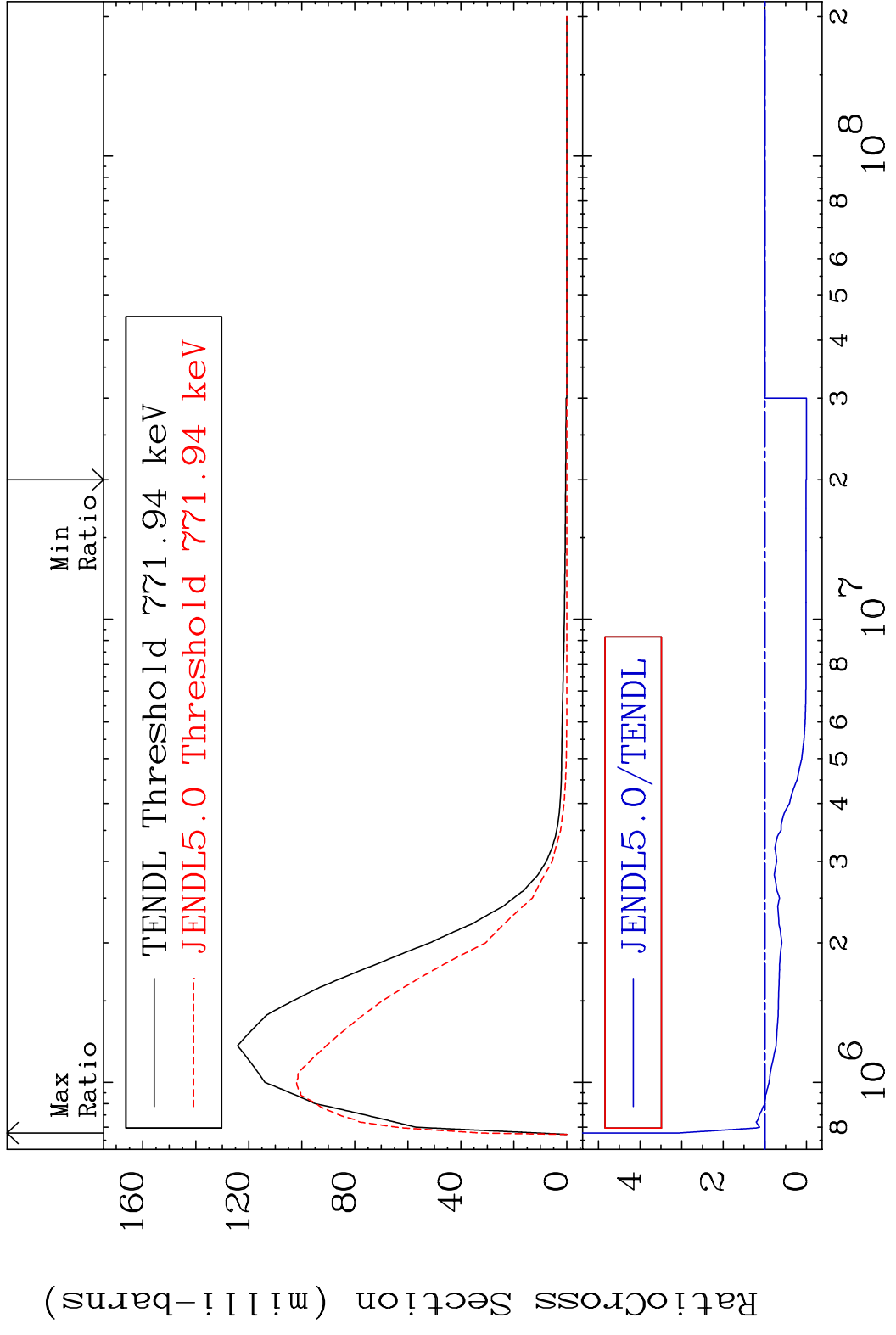
MAT 7531 MT= 64 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 89.74 %



MAT 7531 MT= 65 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 388.1 %

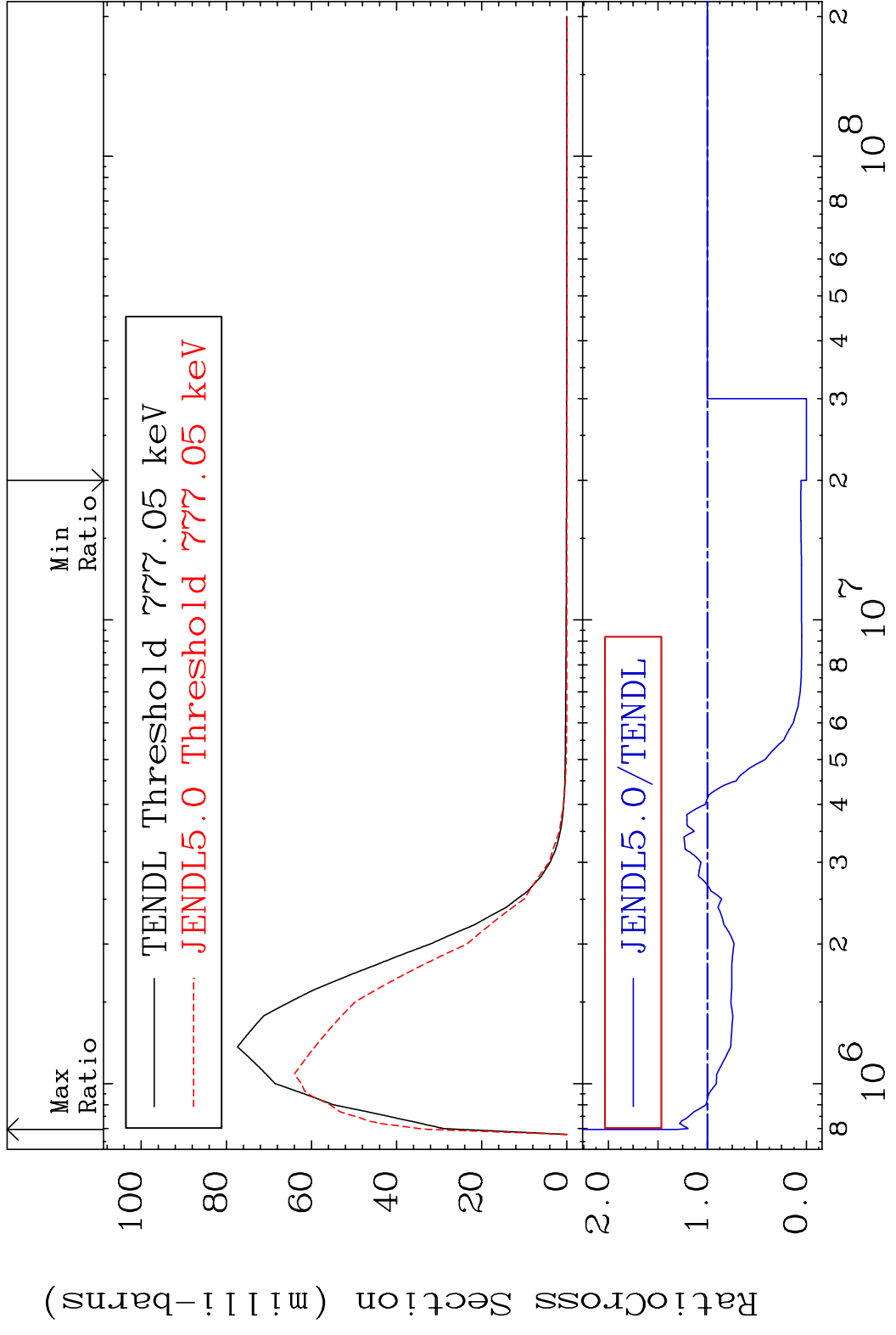


MAT 7531 MT= 66 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 210.8 %

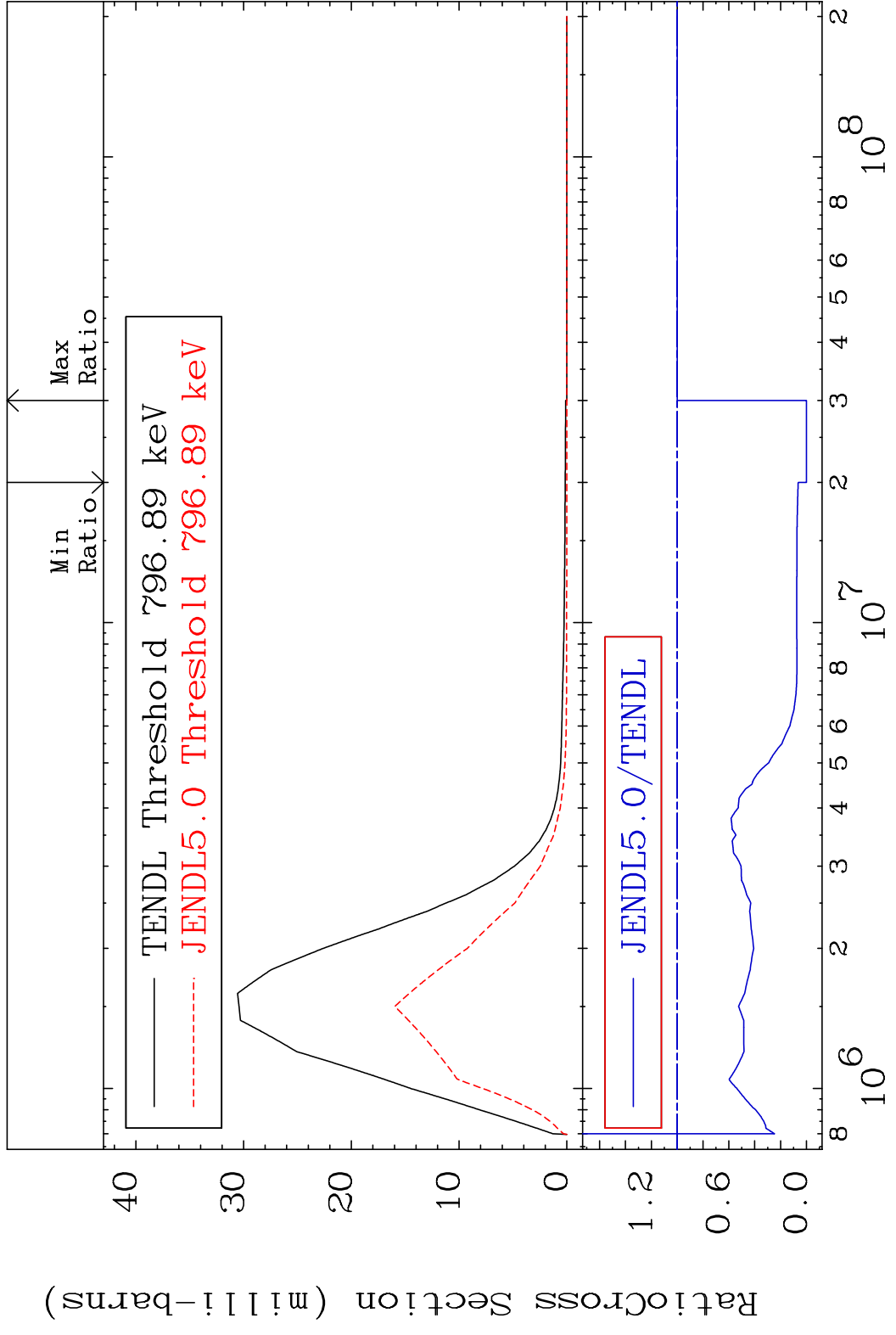


28 Incident Energy (eV) 75-Re-187

MAT 7531 MT= 67 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 30.55 %

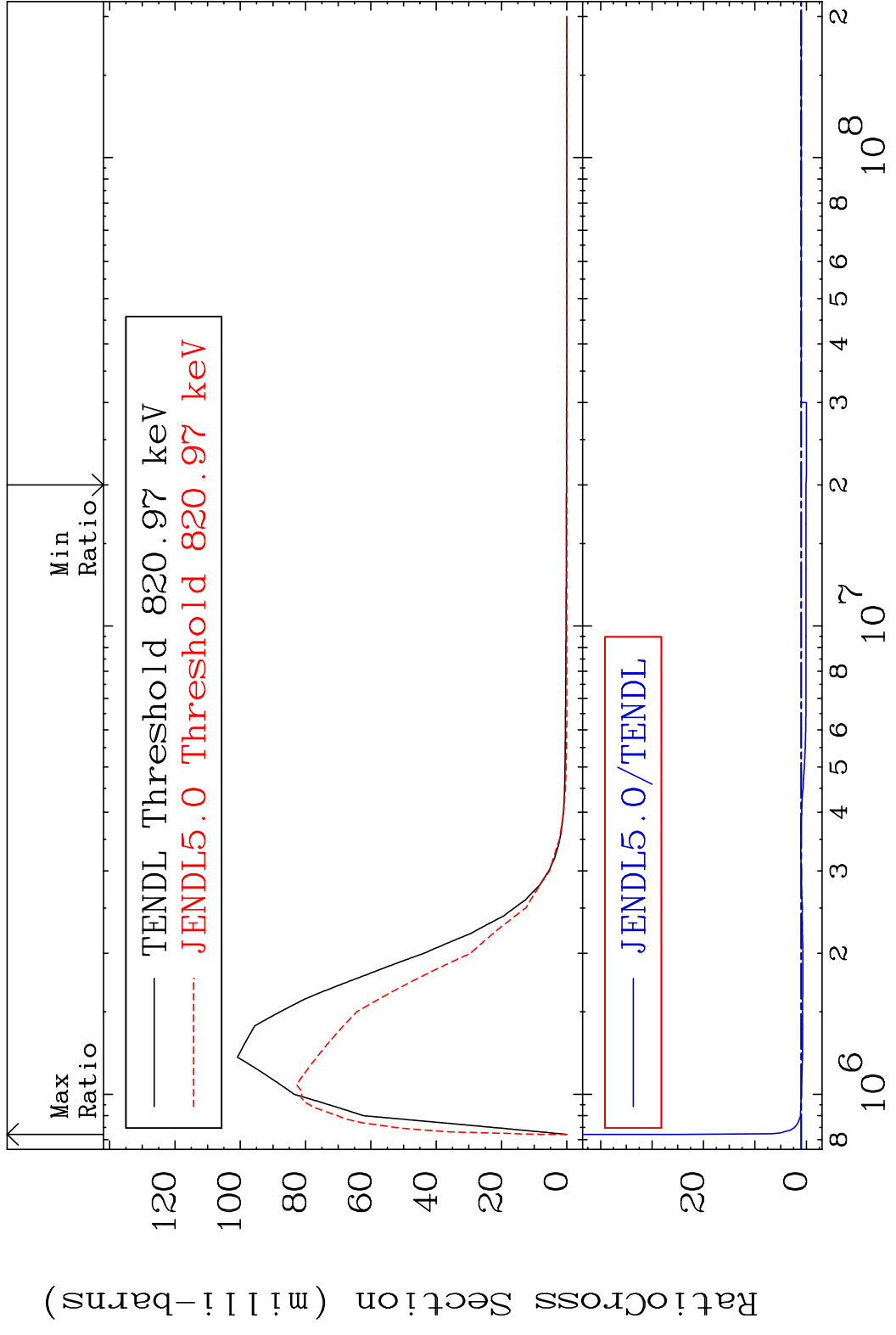


MAT 7531 MT= 68 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 0.000 %



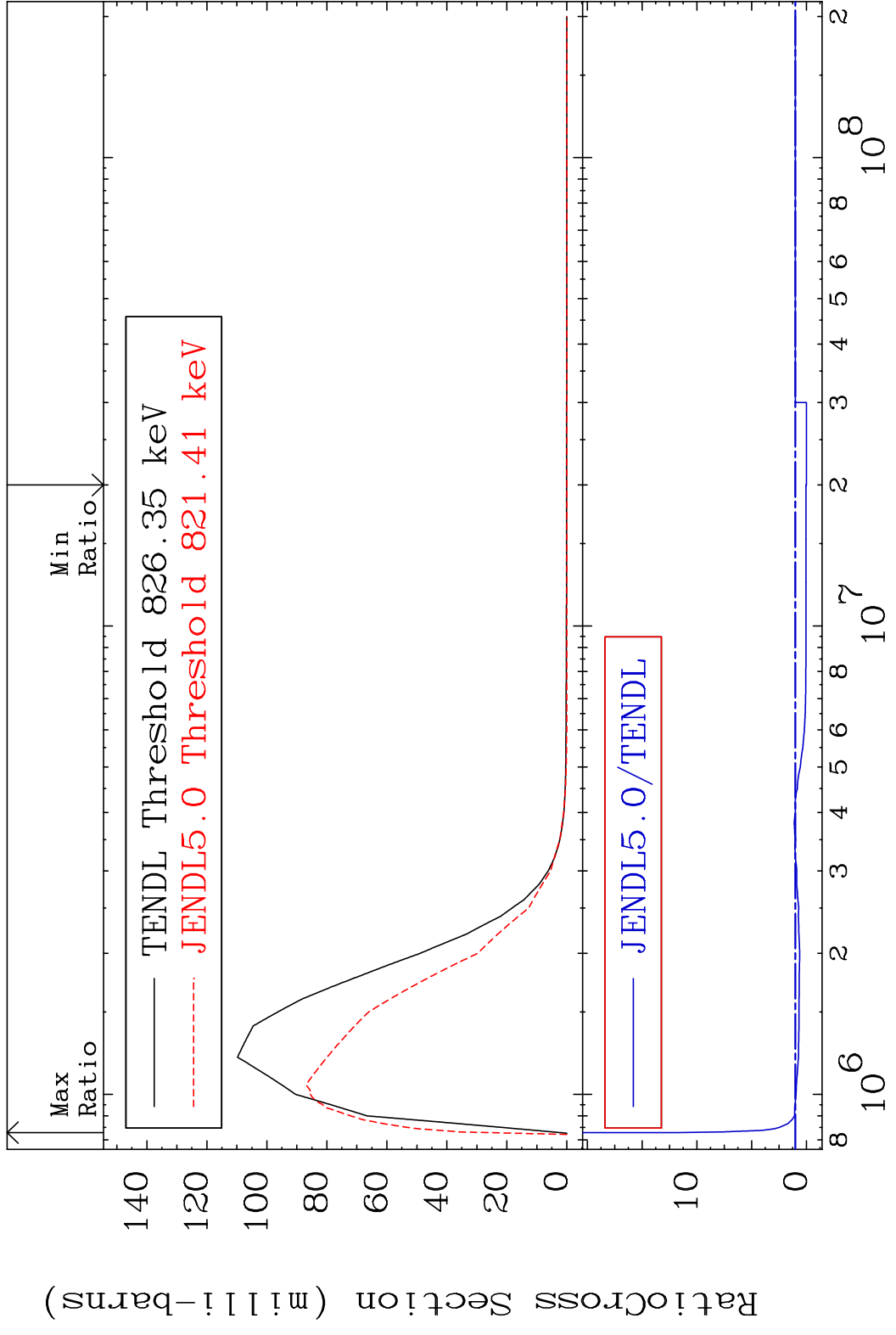
30 Incident Energy (eV) 75-Re-187

MAT 7531 MT= 69 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 2412. %

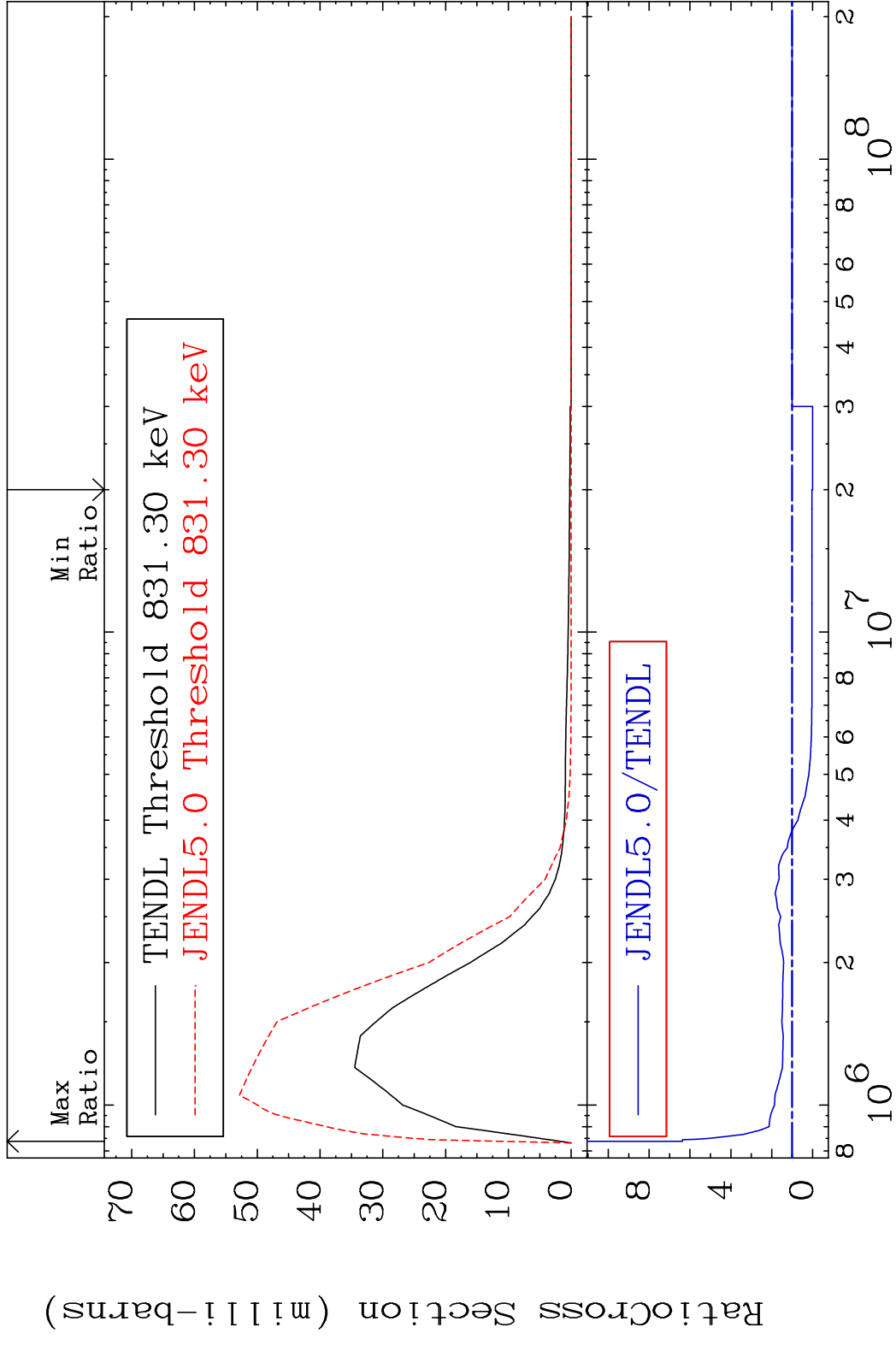




MAT 7531 MT= 70 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 1080. %

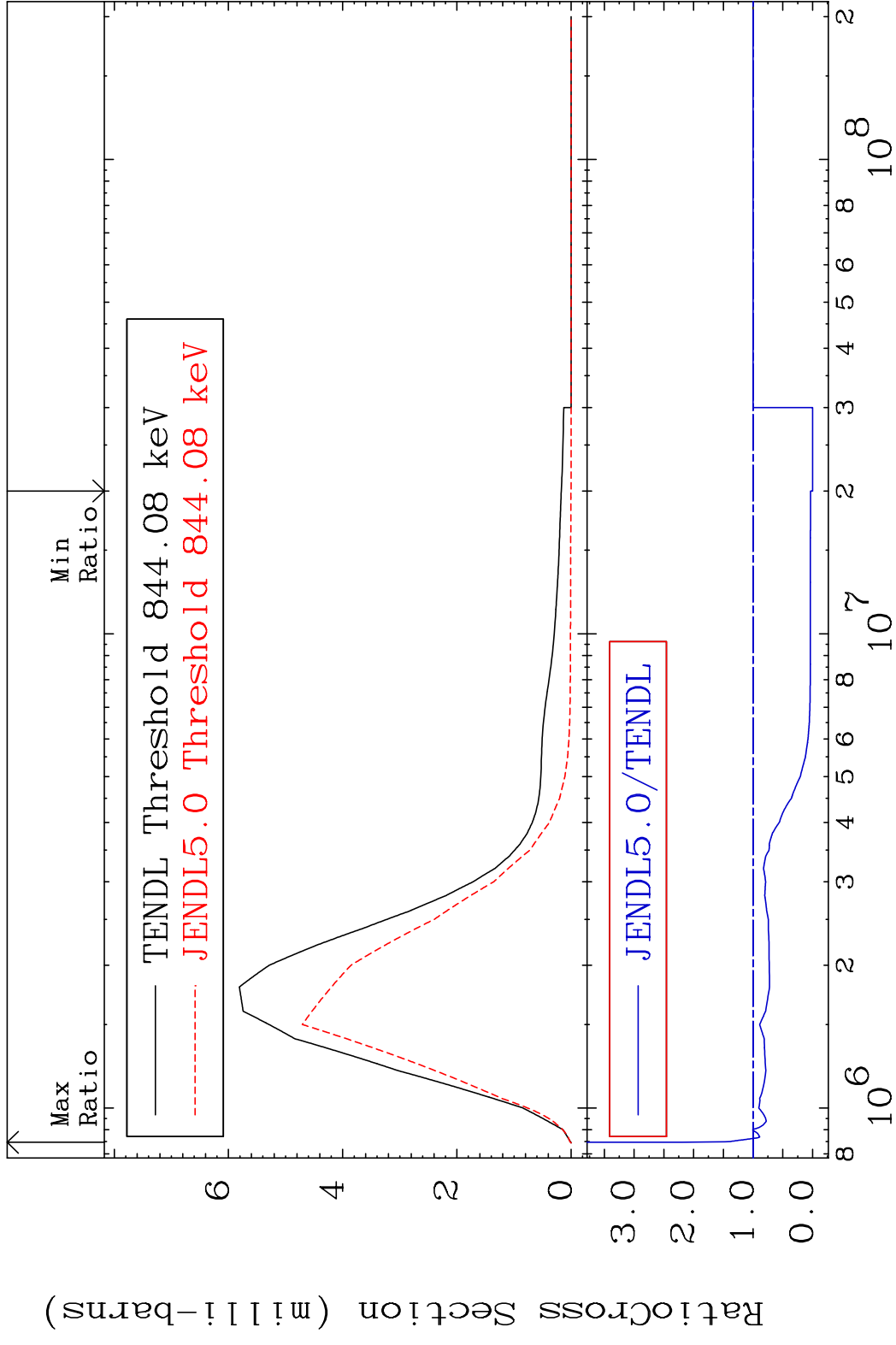


MAT 7531 MT= 71 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 537.4 %

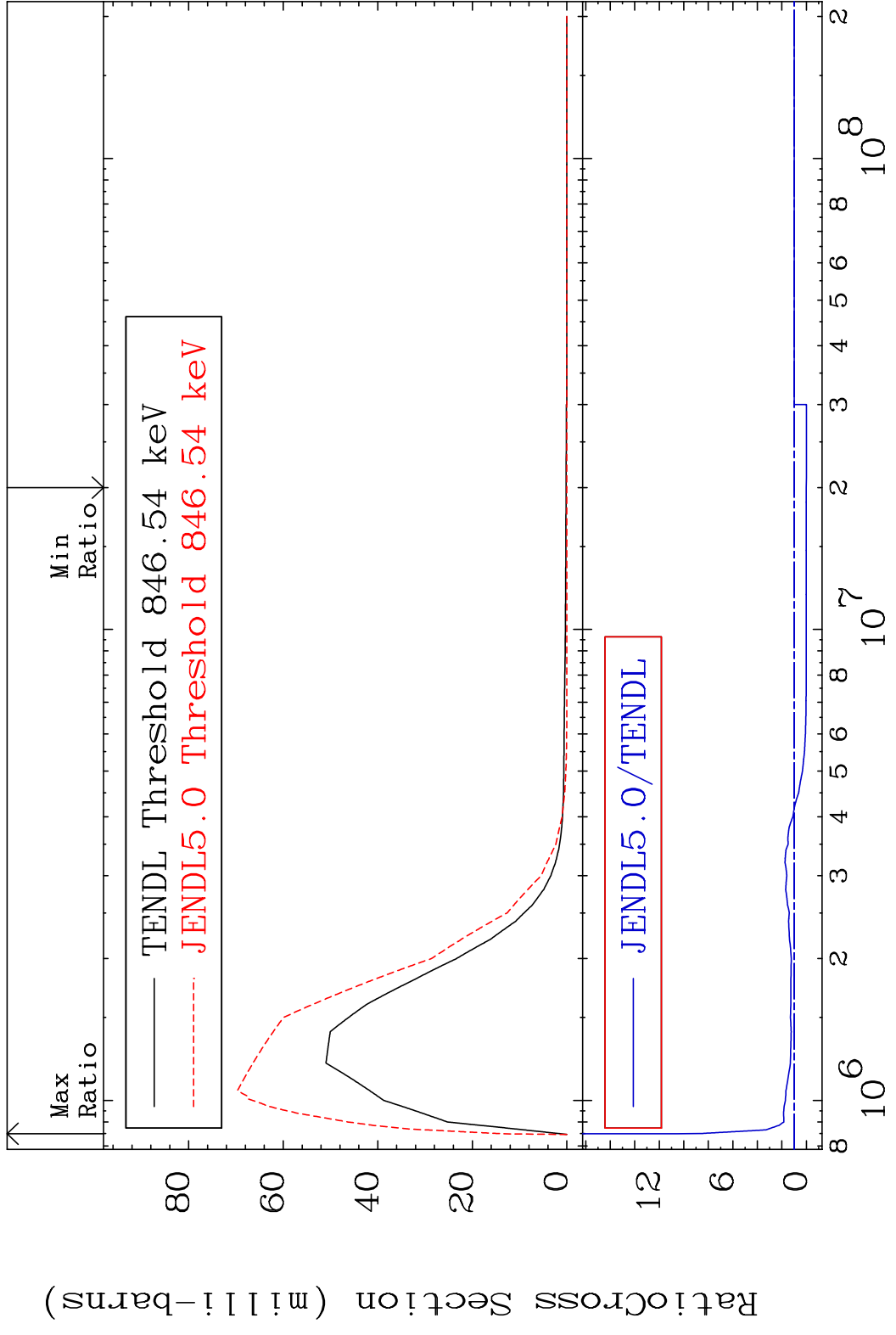


33 Incident Energy (eV) 75-Re-187

MAT 7531 MT= 72 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 118.9 %

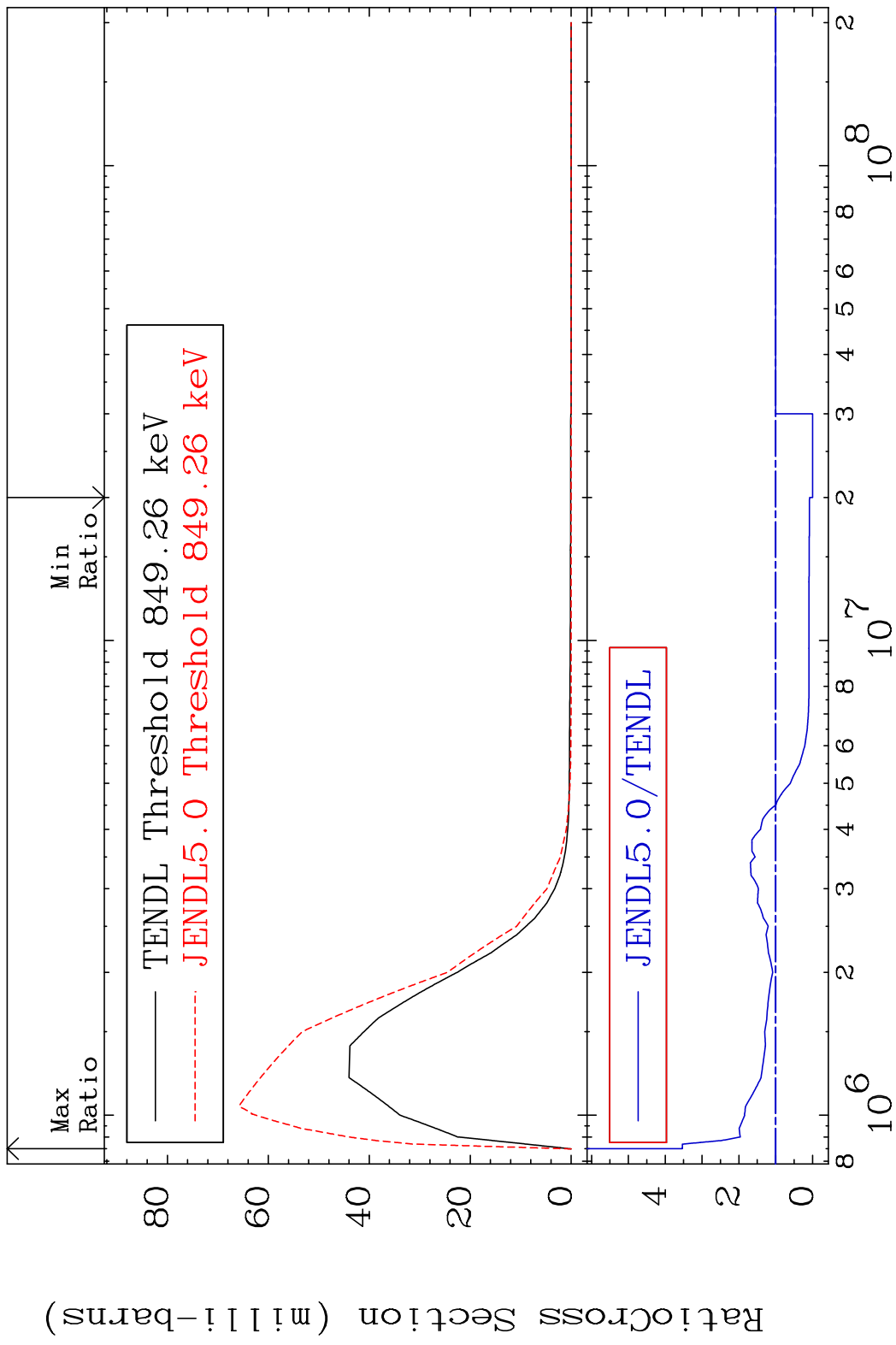


MAT 7531 MT= 73 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 953.8 %



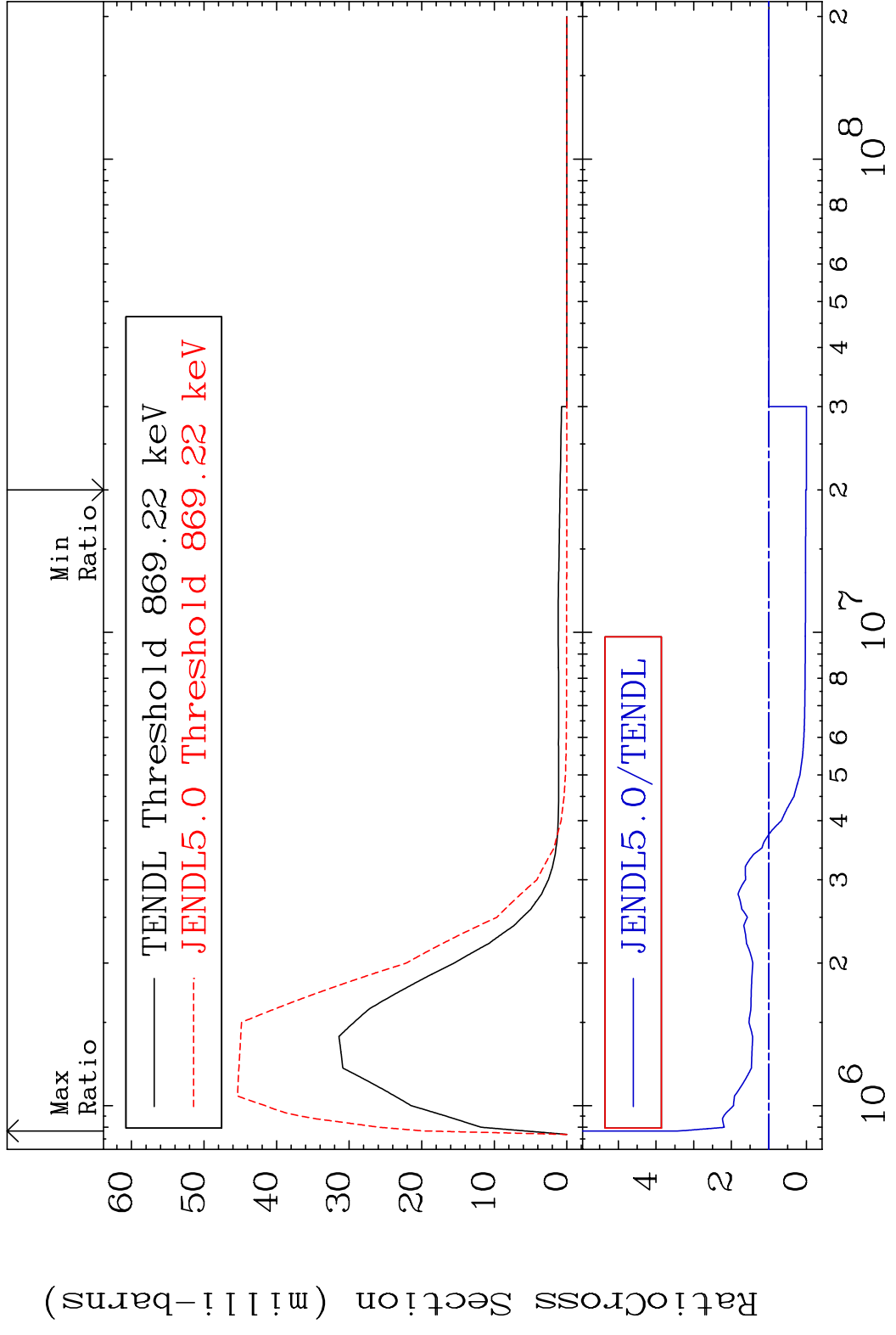
35 Incident Energy (eV) 75-Re-187

MAT 7531 MT= 74 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 253.4 %

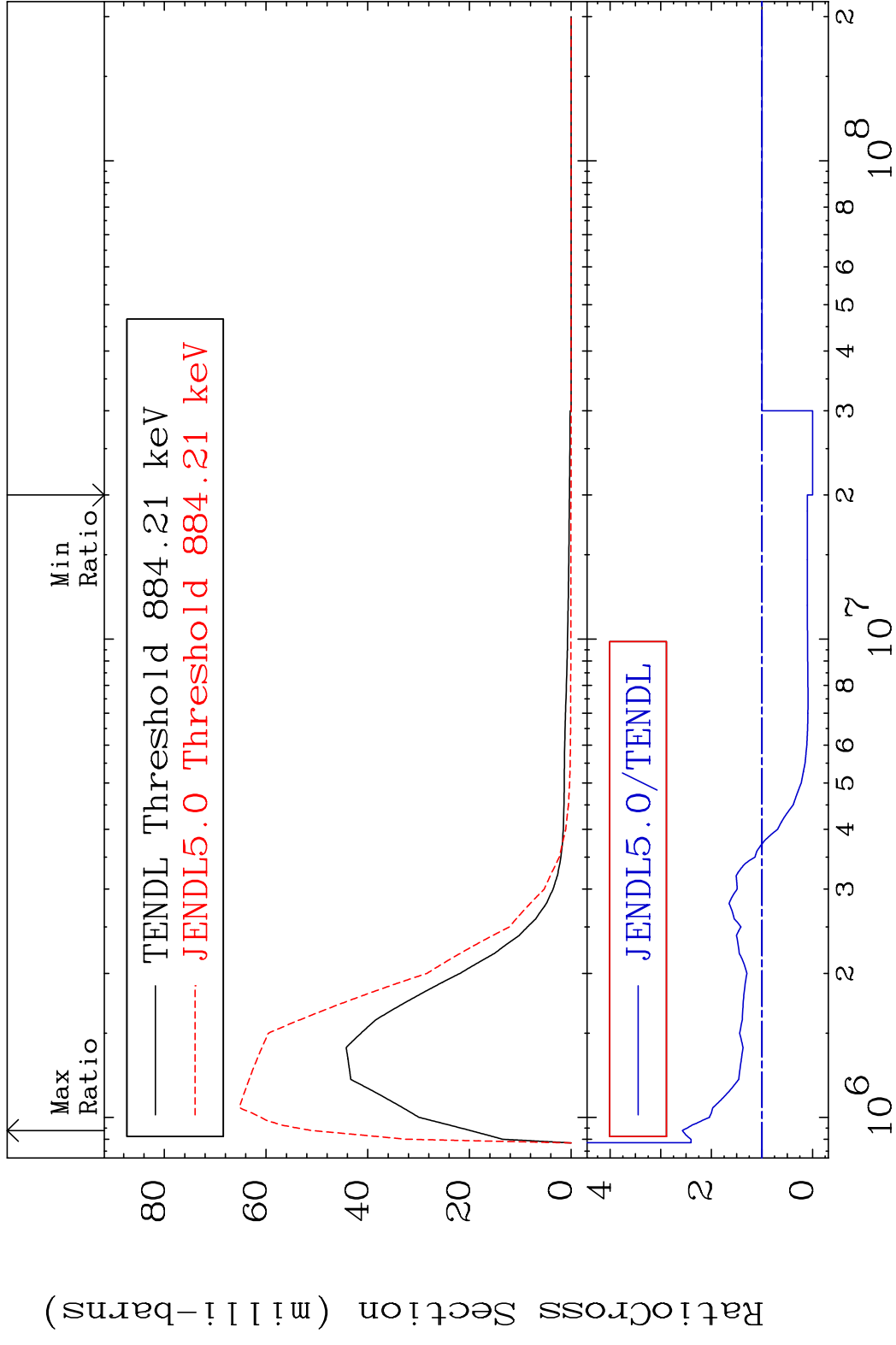


36 Incident Energy (eV) 75-Re-187

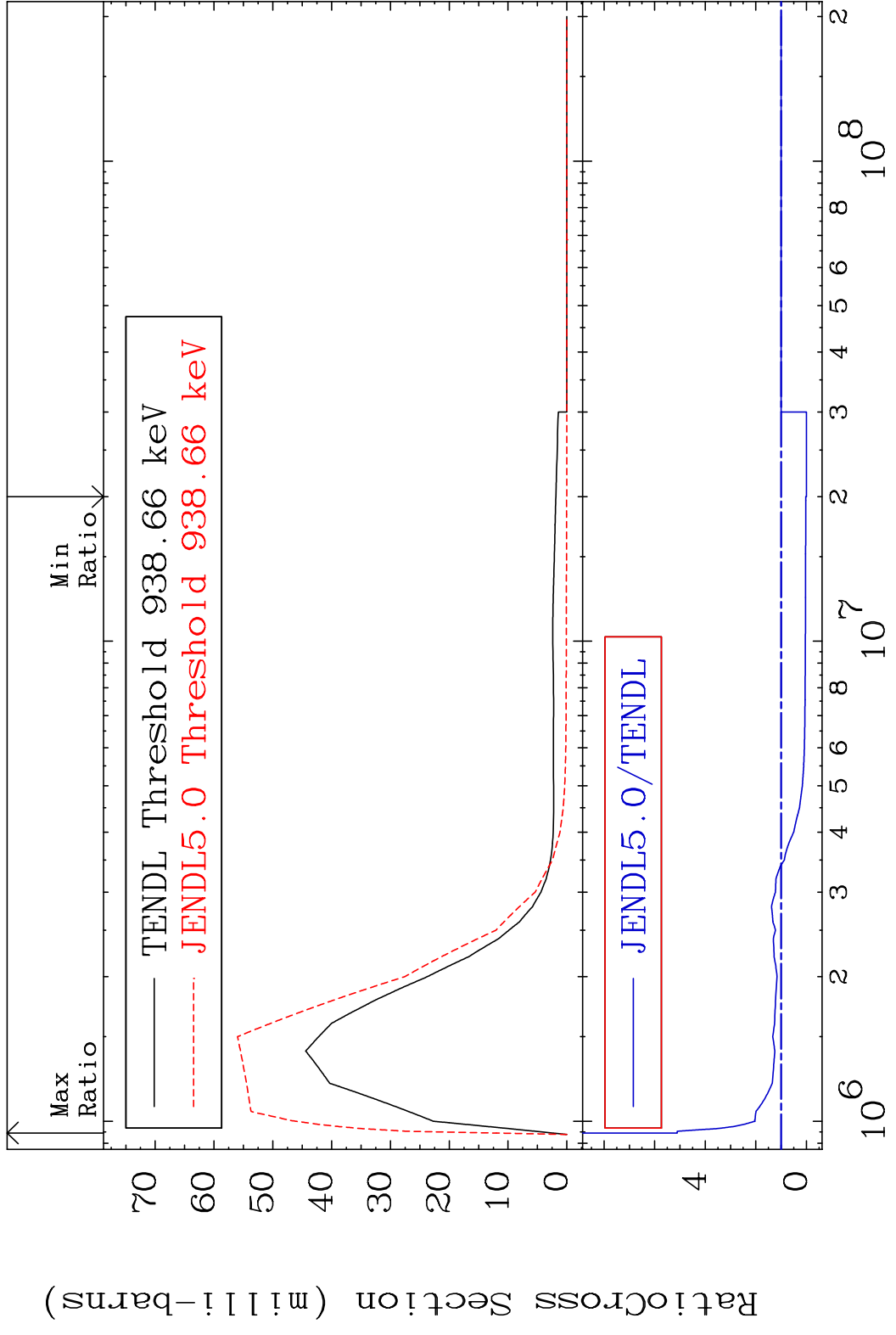
MAT 7531 MT= 75 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 243.8 %



MAT 7531 MT= 76 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 157.3 %



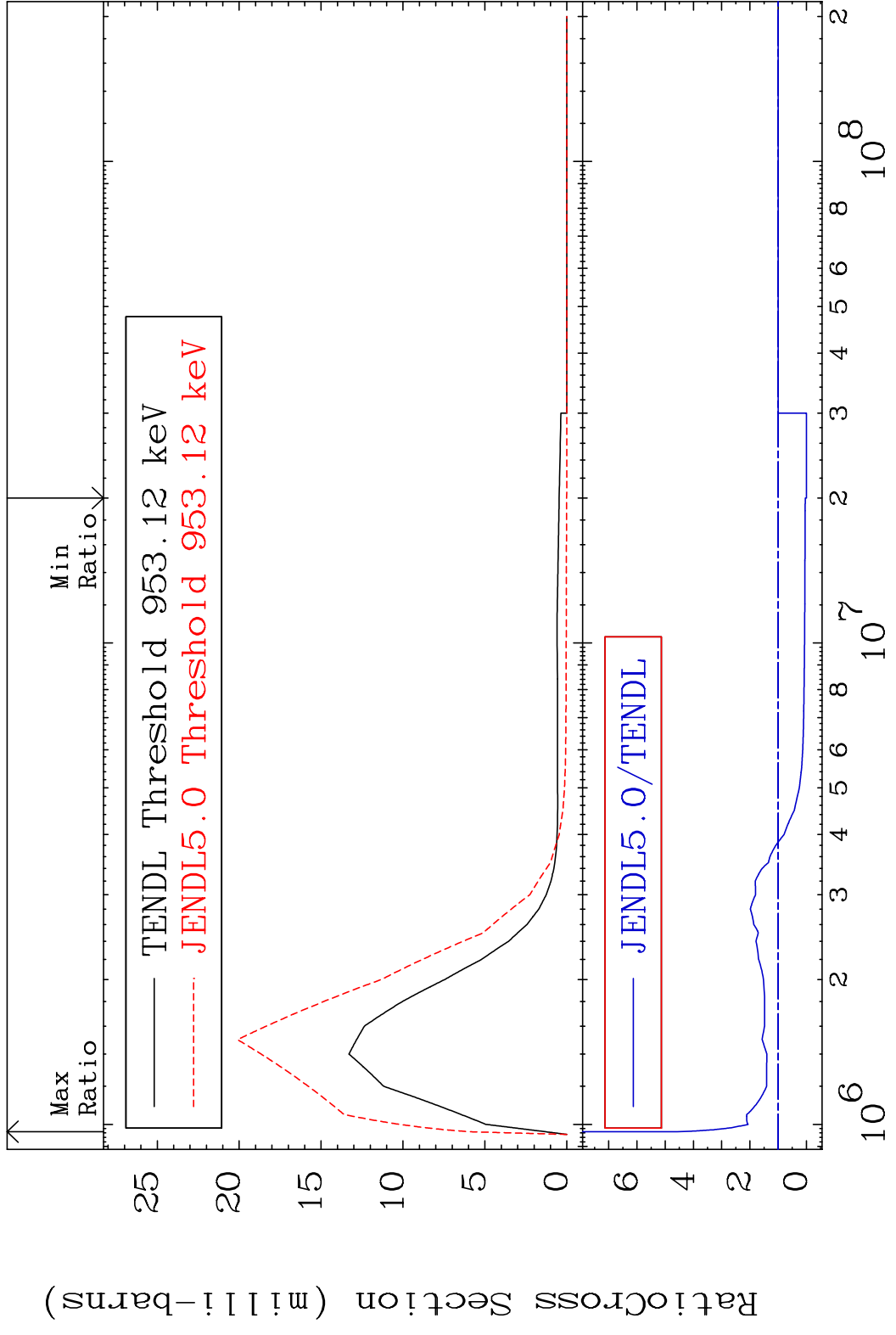
MAT 7531 MT= 77 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 410.9 %



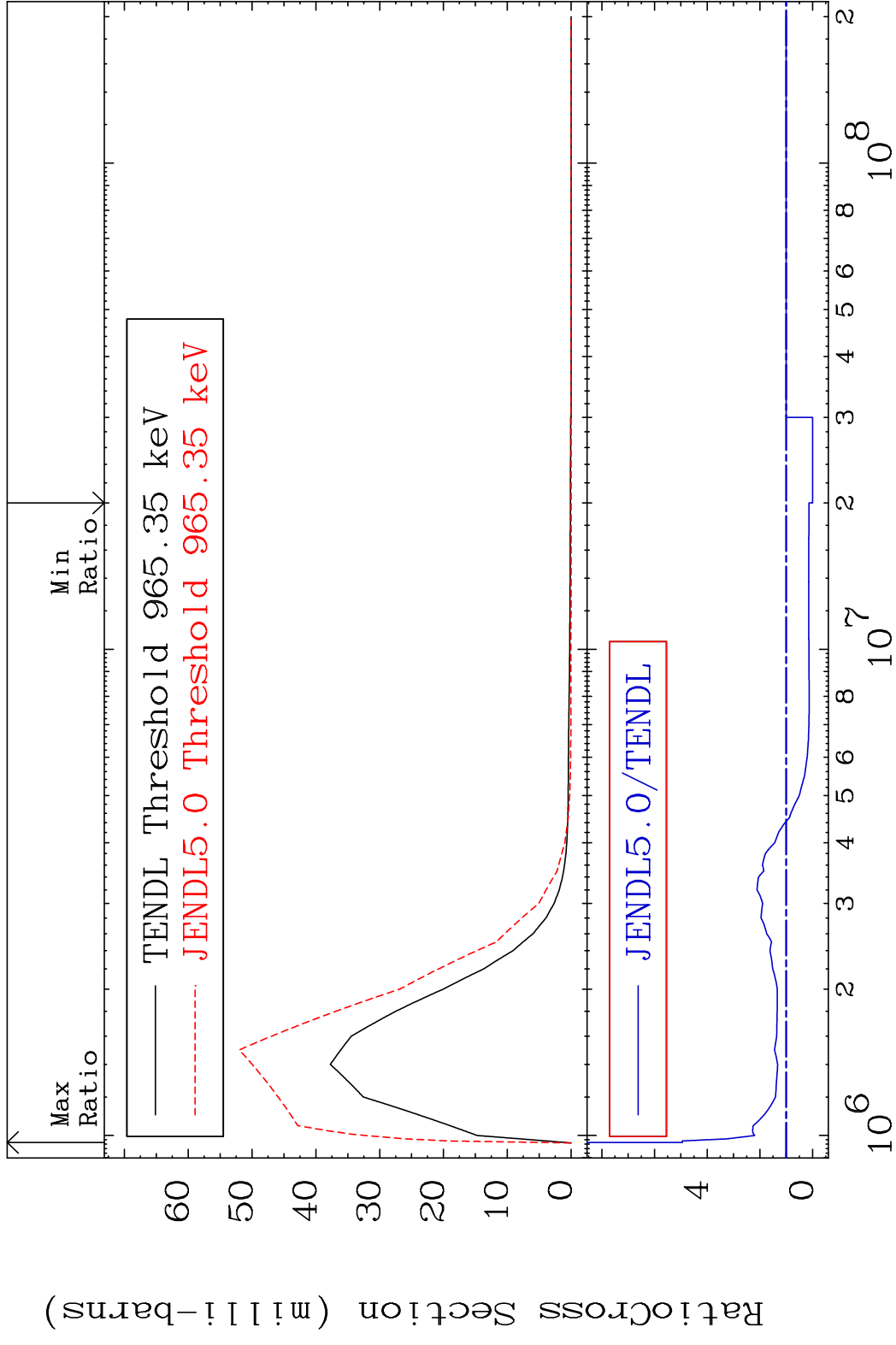
39 Incident Energy (eV) 75-Re-187



MAT 7531 MT= 78 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 357.6 %

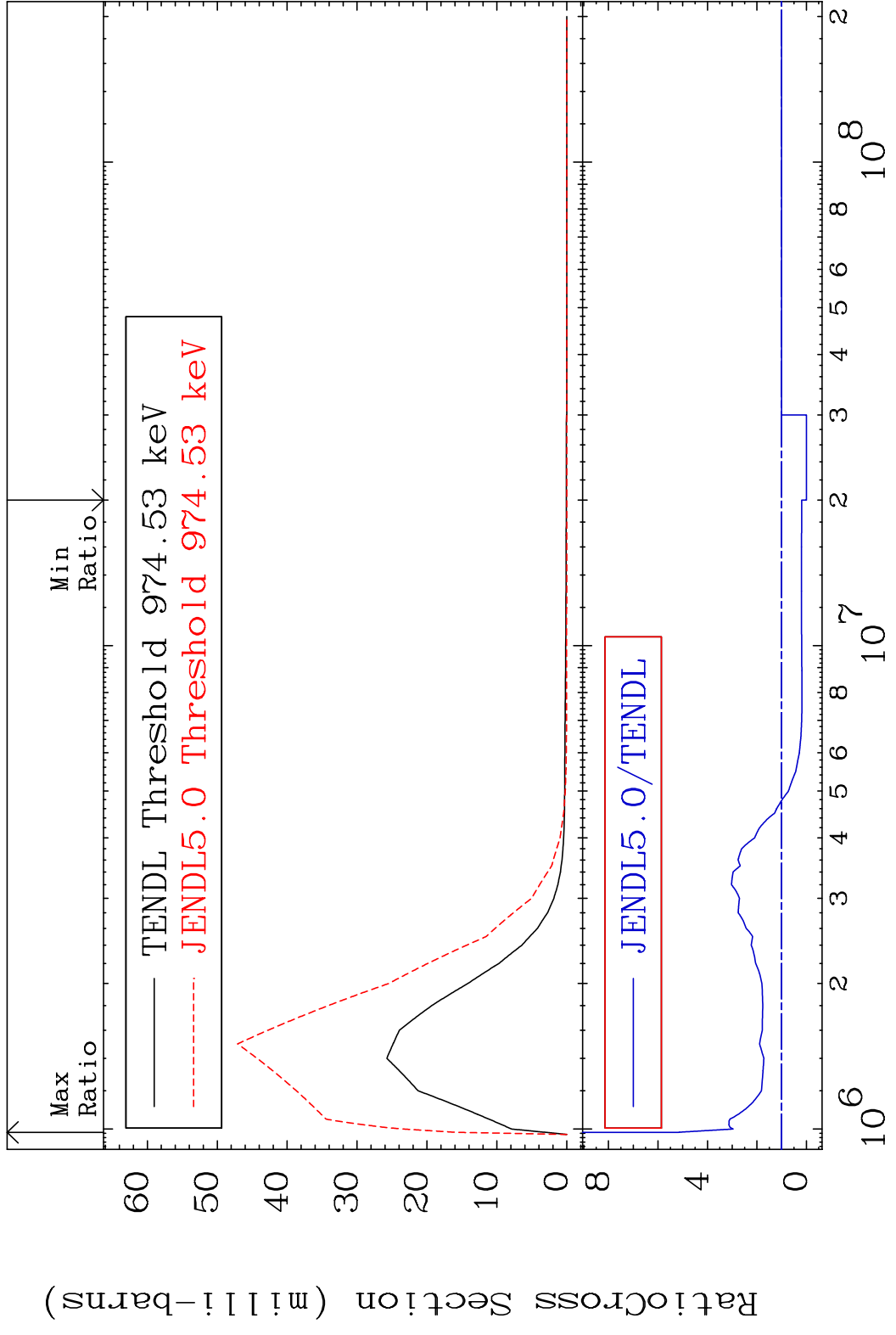


MAT 7531 MT= 79 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 394.2 %



41 Incident Energy (eV) 75-Re-187

MAT 7531 MT= 80 (n, n') Level 75-Re-187  
 Cross Section -100.0 To 422.4 %



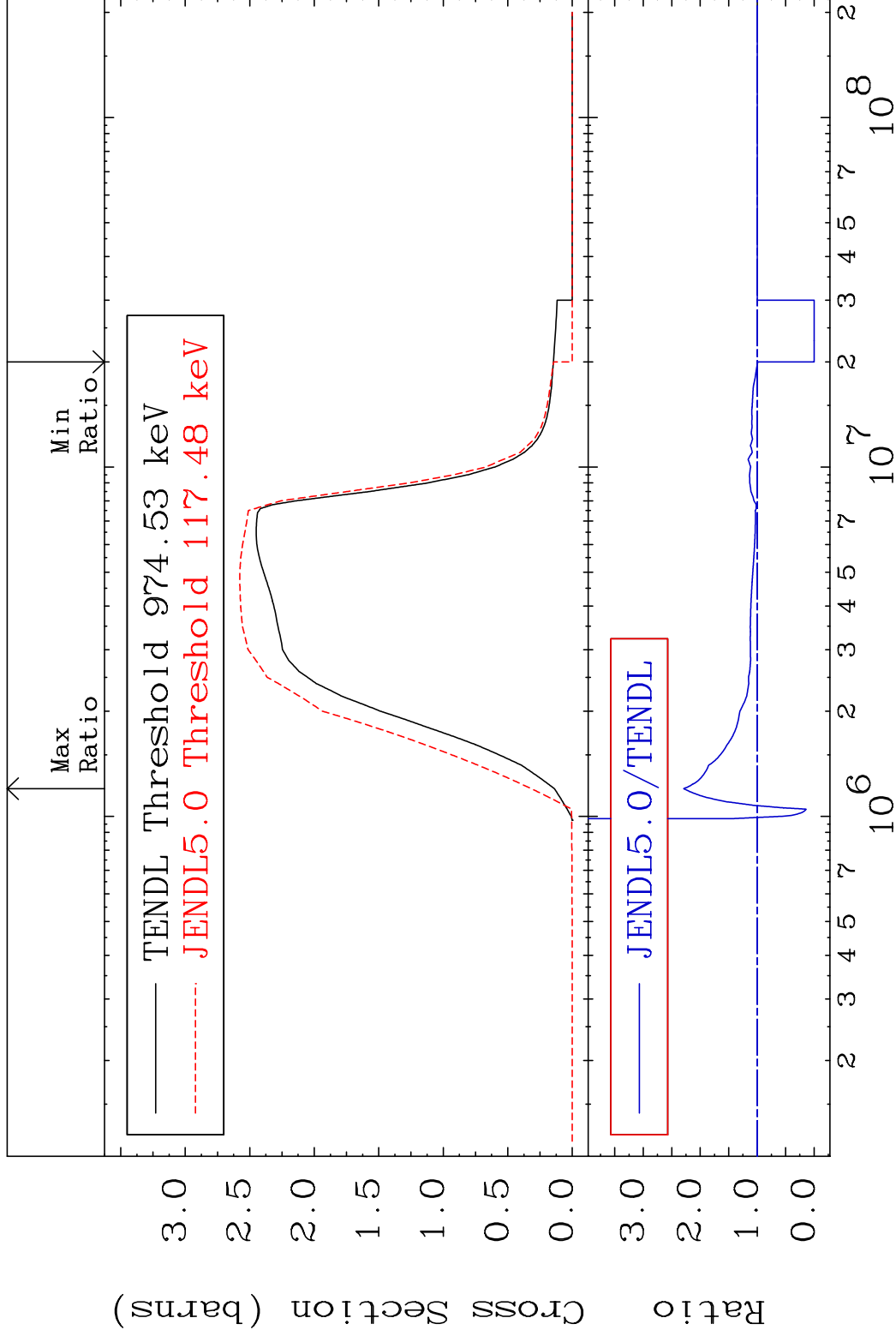
42 75-Re-187

MAT 7531

(n, n') Continuum

75-Re-187

Cross Section -100.0 To 129.1 %



43

Incident Energy (eV)

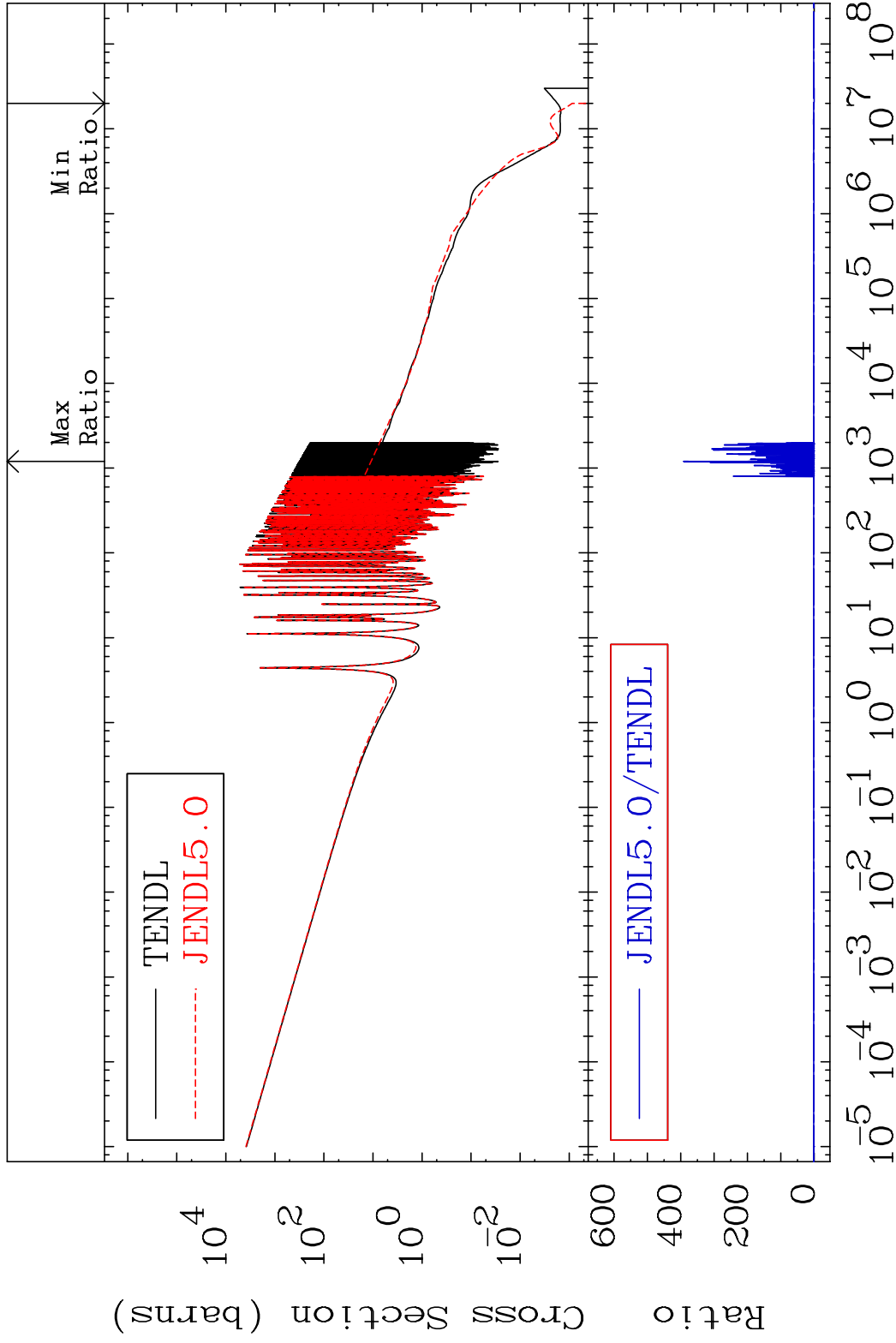
75-Re-187

MAT 7531

(n,  $\gamma$ )

75-Re-187

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

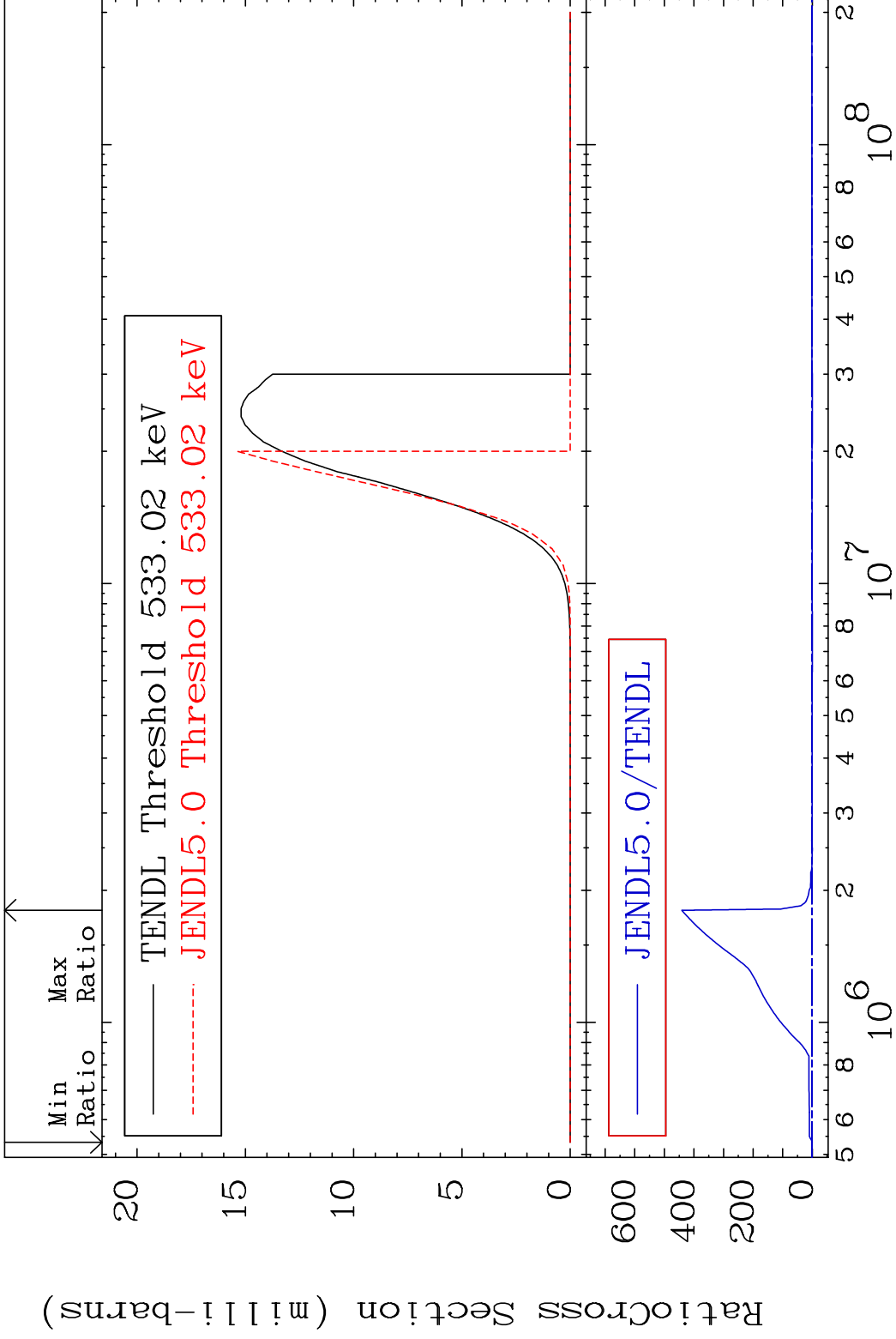
75-Re-187

MAT 7531

(n, p)

75-Re-187

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

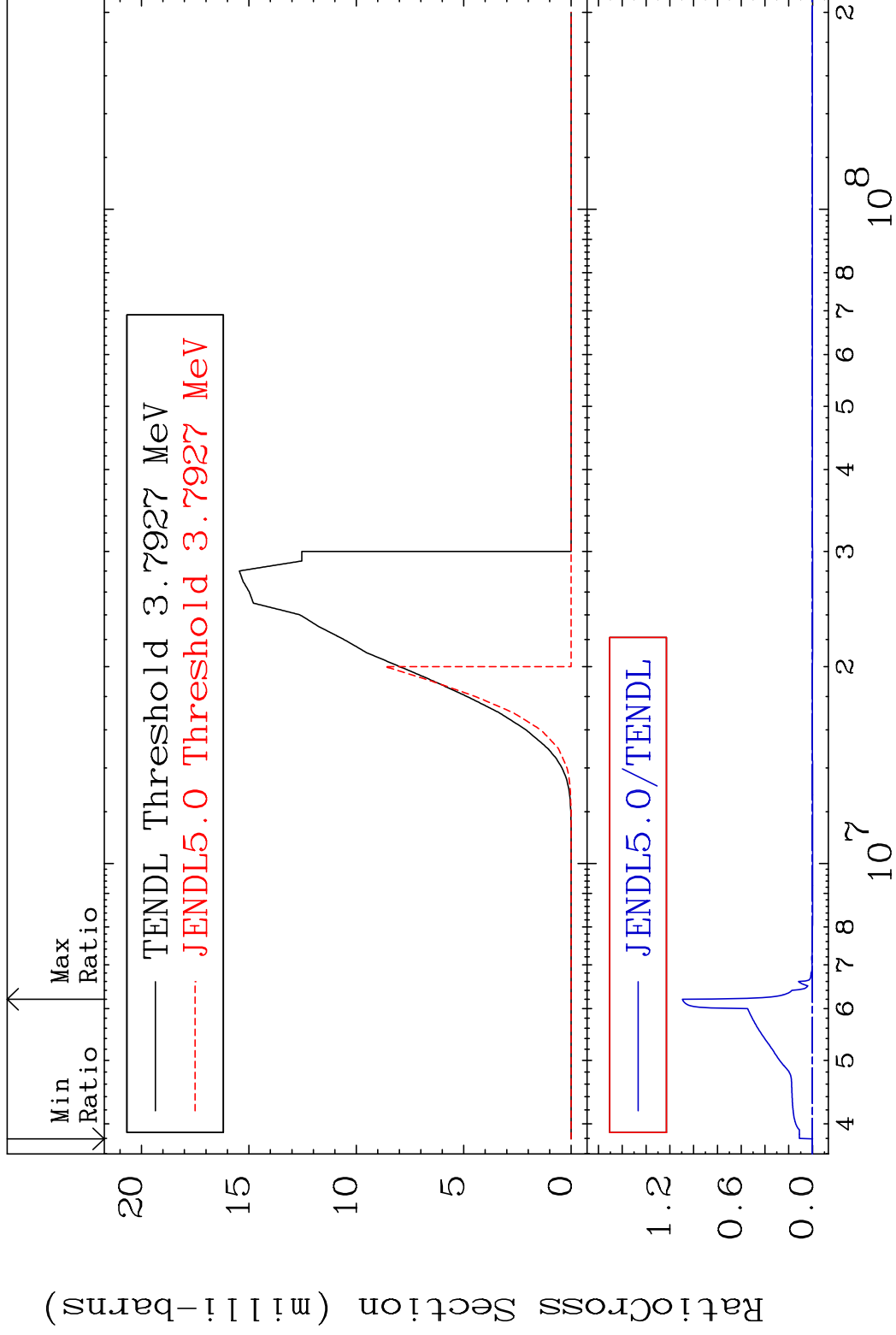
75-Re-187

MAT 7531

(n,d)

75-Re-187

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

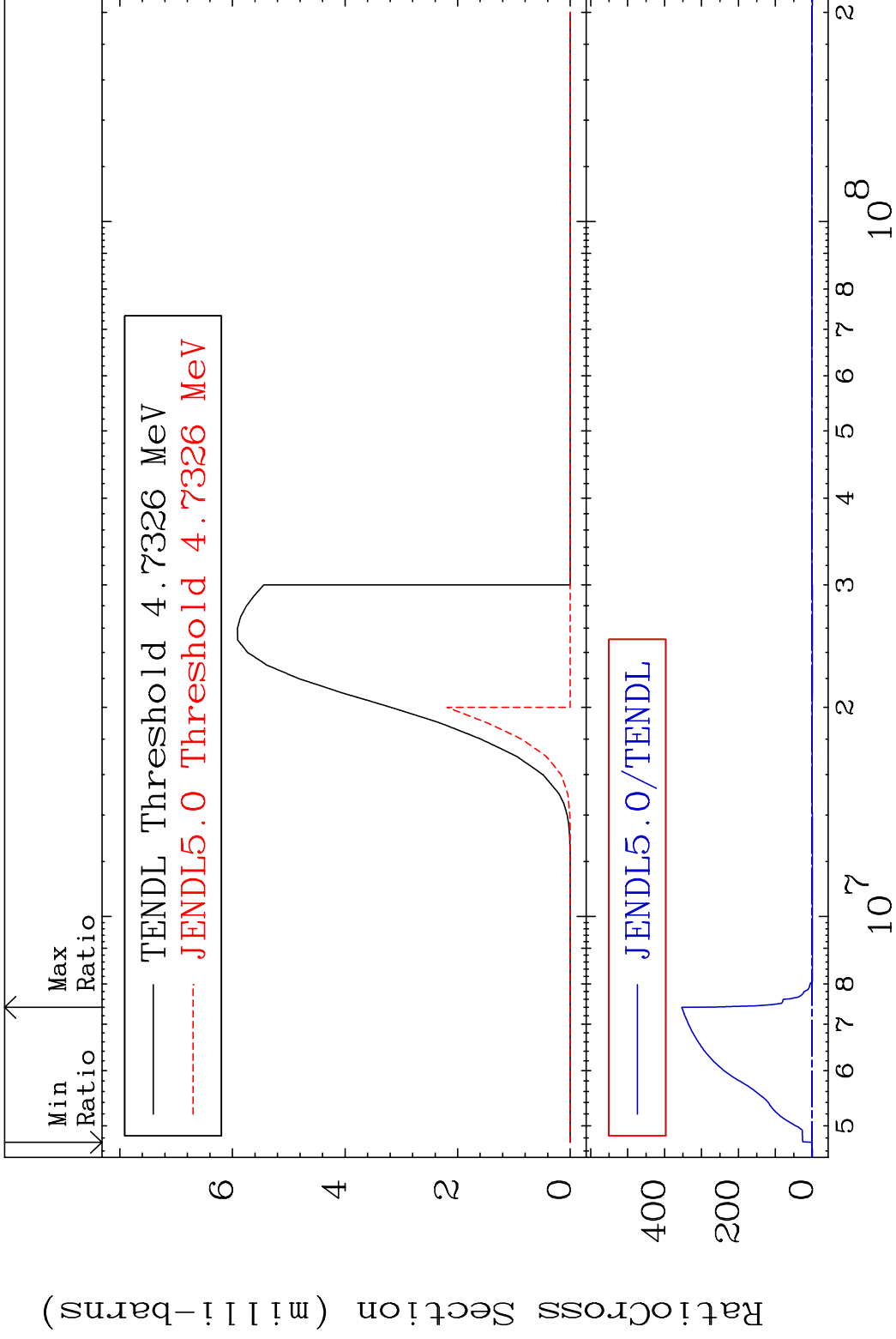
75-Re-187

MAT 7531

(n, t)

75-Re-187

Cross Section -100.0 To 9999. %



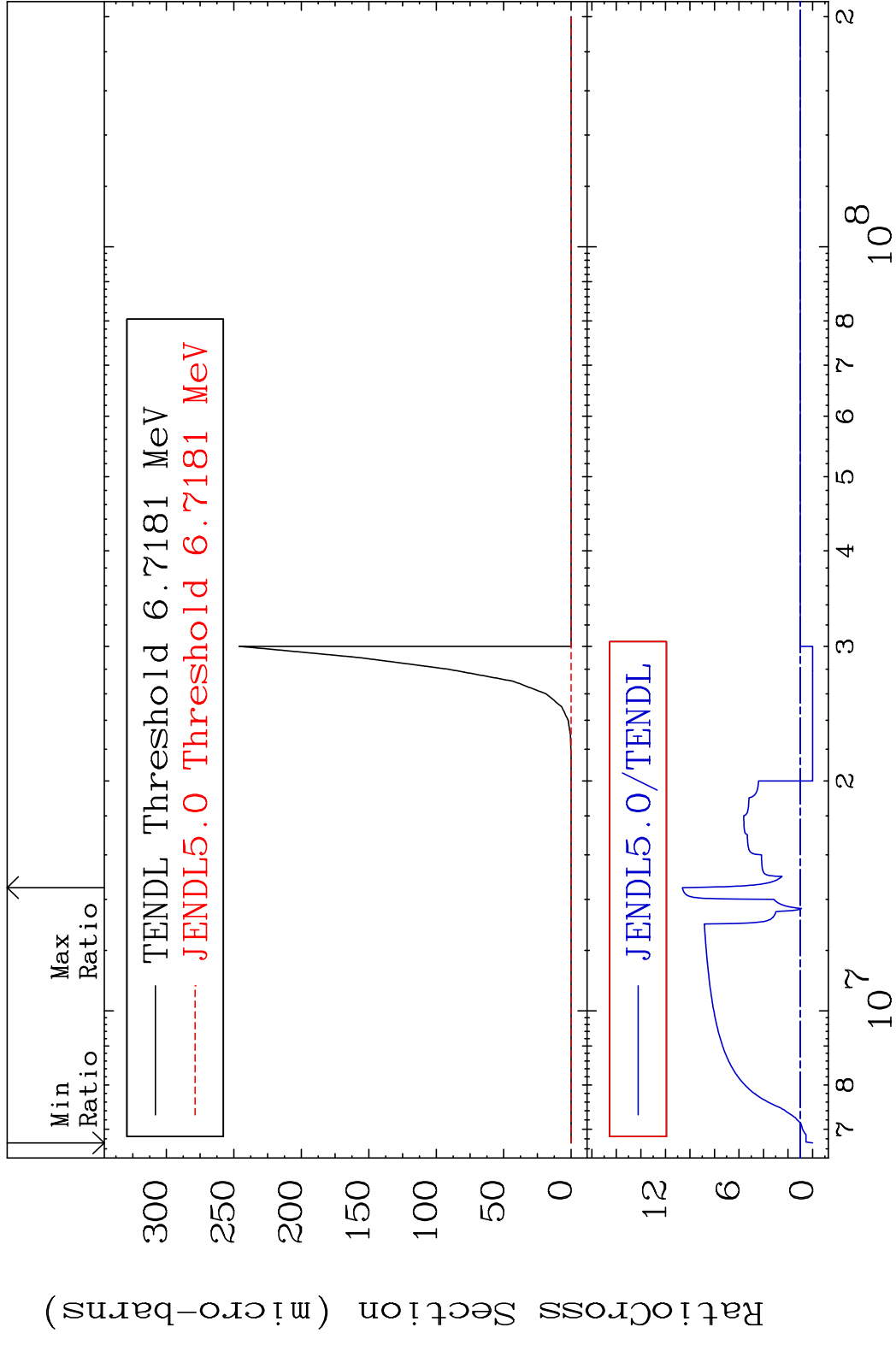
47

Incident Energy (eV)

75-Re-187



MAT 7531 (n, He-3) 75-Re-187  
 Cross Section -100.0 To 961.8 %



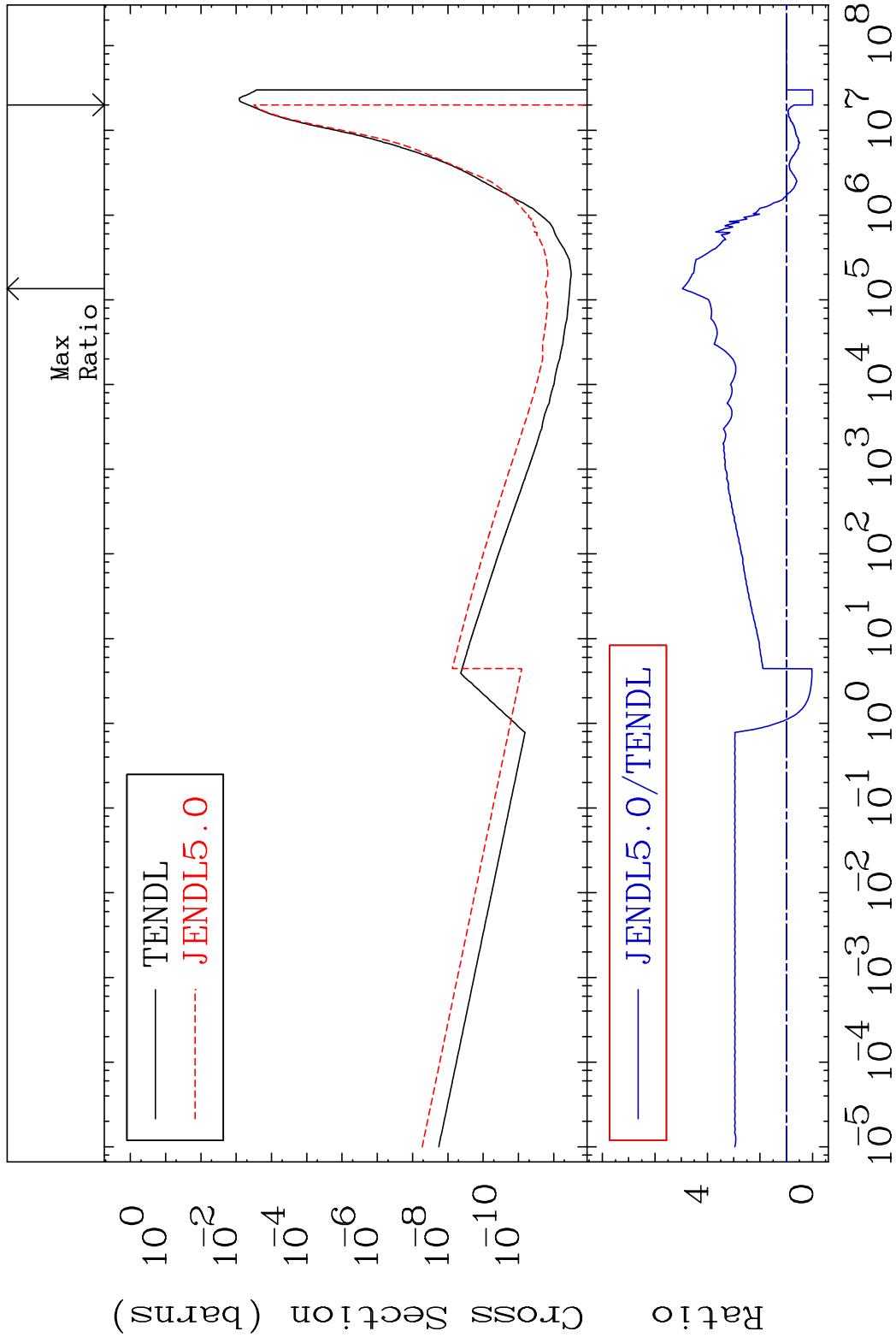
48 Incident Energy (eV) 75-Re-187

MAT 7531

(n,  $\alpha$ )

75-Re-187

Cross Section -100.0 To 395.6 %



49

Incident Energy (eV)

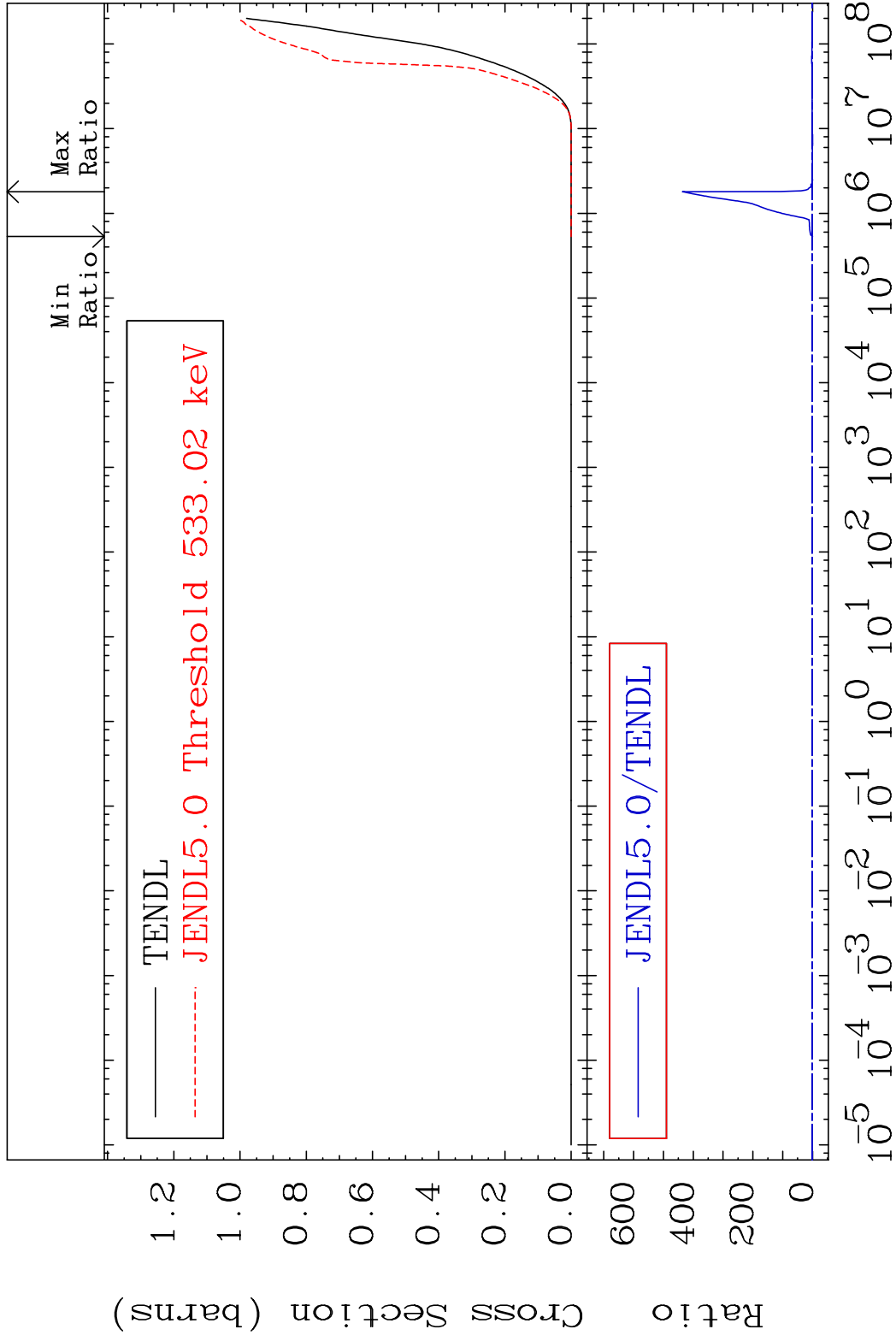
75-Re-187

MAT 7531

Hydrogen Production

75-Re-187

Cross Section -100.0 To 9999. %

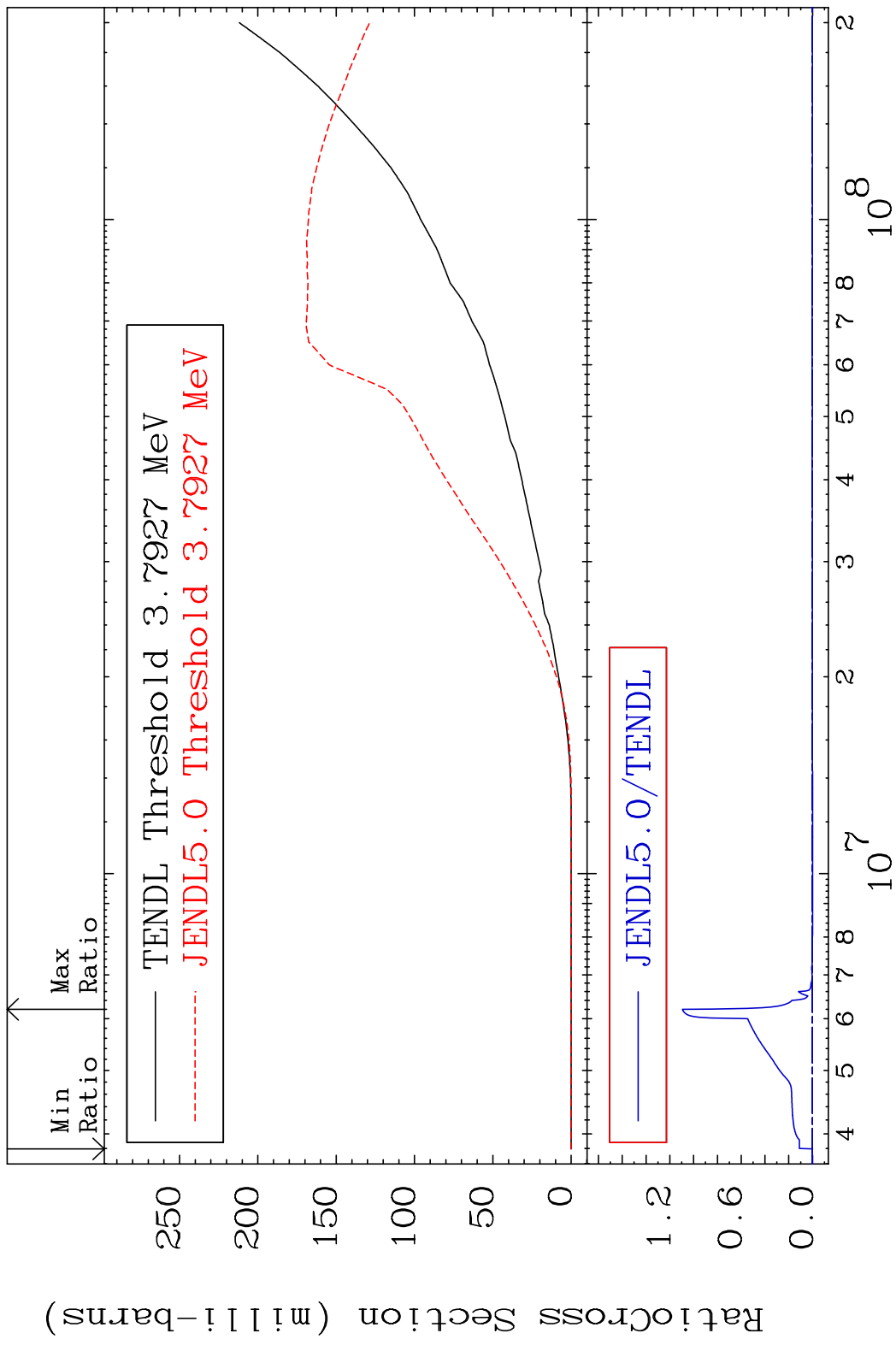


50

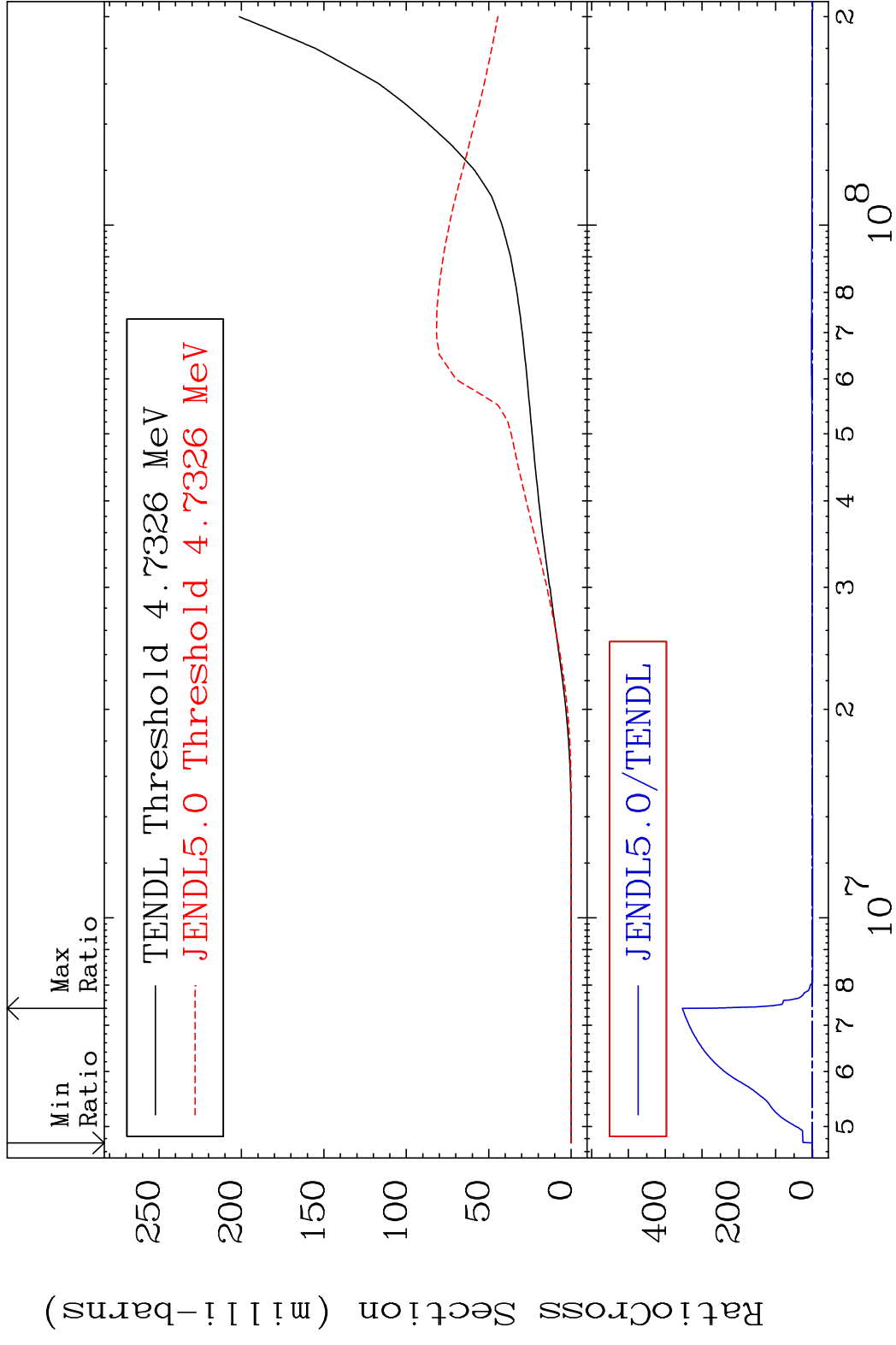
Incident Energy (eV)

75-Re-187

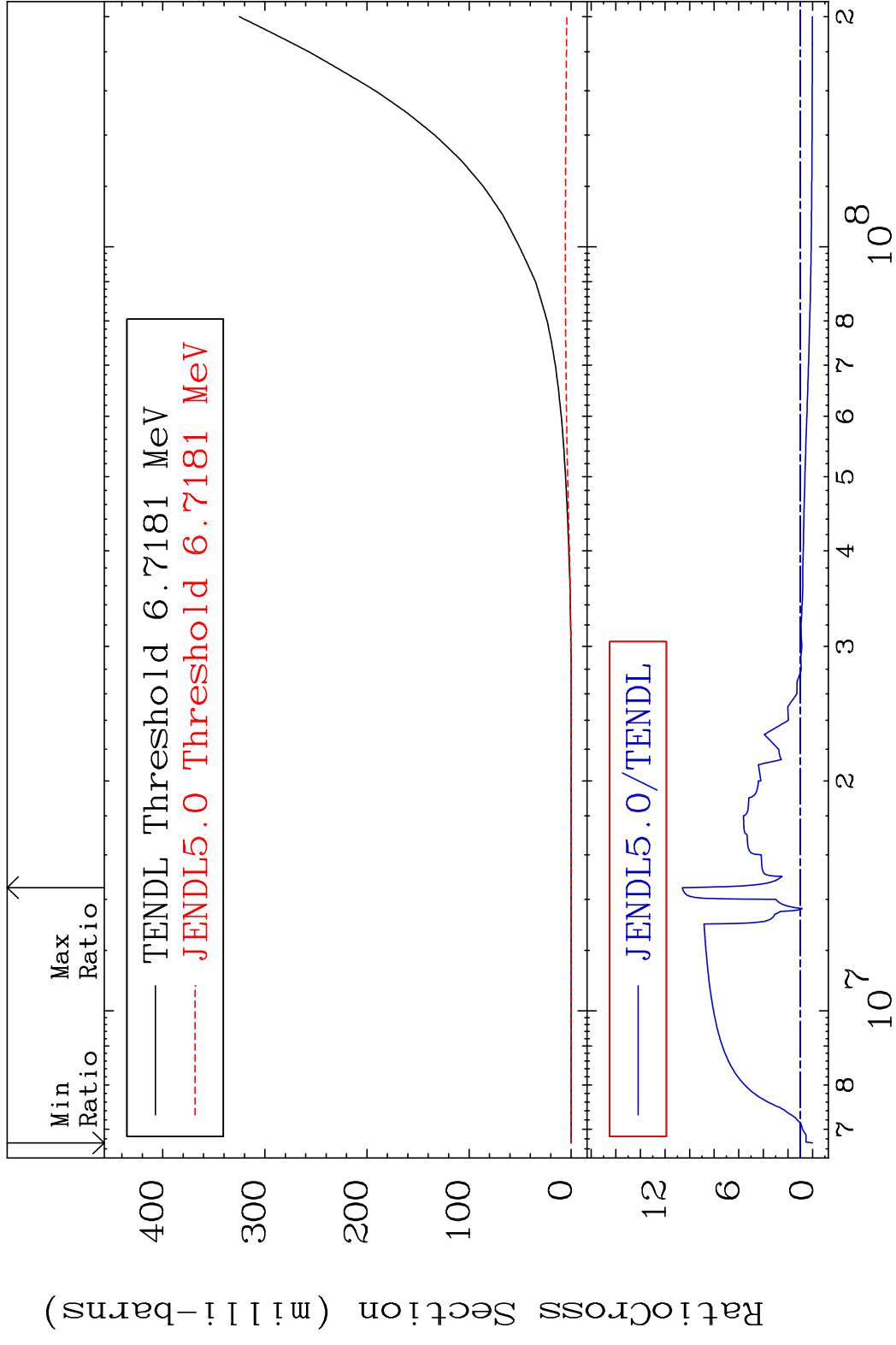
MAT 7531 Deuterium Production 75-Re-187  
 Cross Section -100.0 To 9999. %



MAT 7531 Tritium Production 75-Re-187  
 Cross Section -100.0 To 9999. %

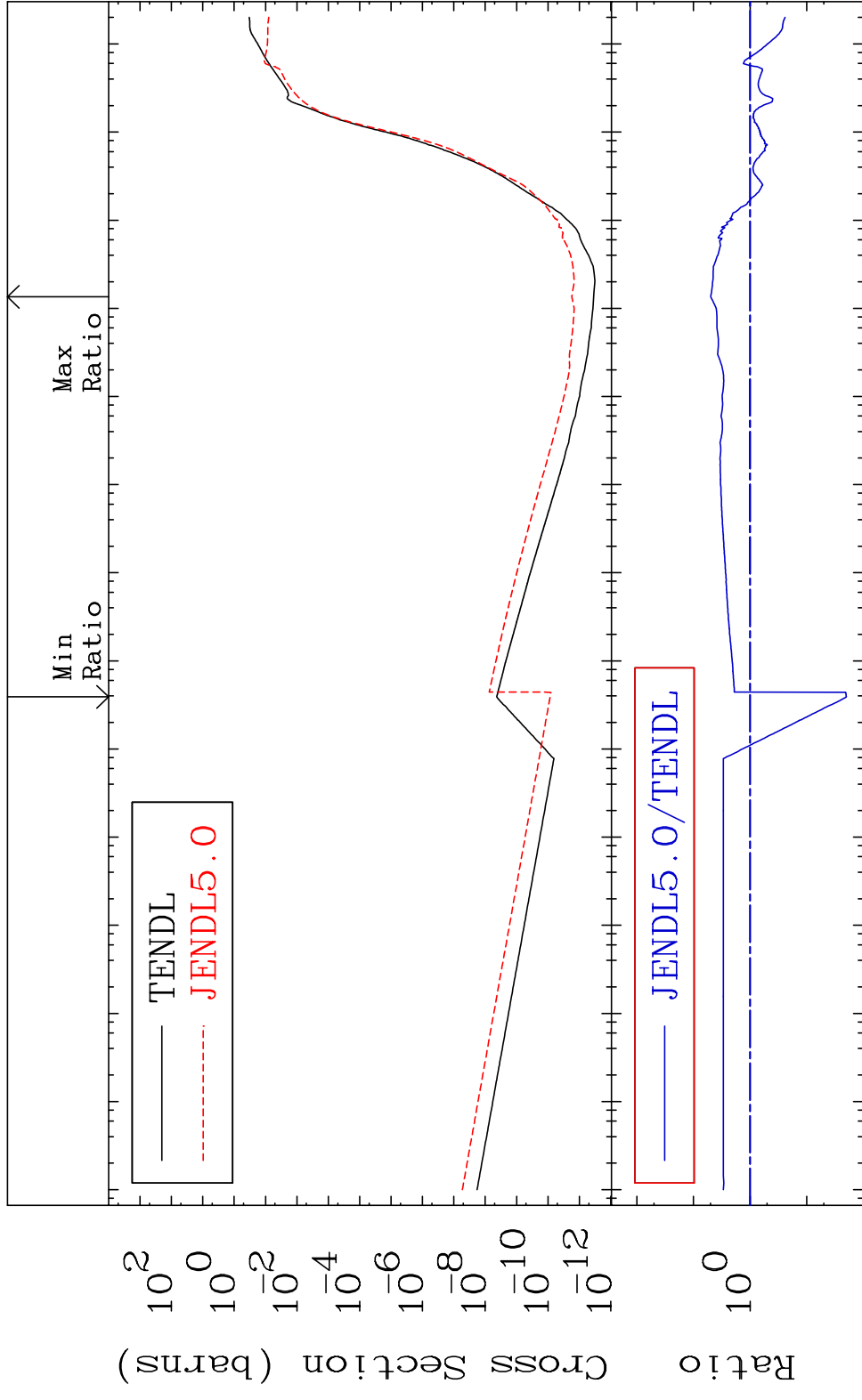


MAT 7531 He-3 Production 75-Re-187  
 Cross Section -100.0 To 958.9 %

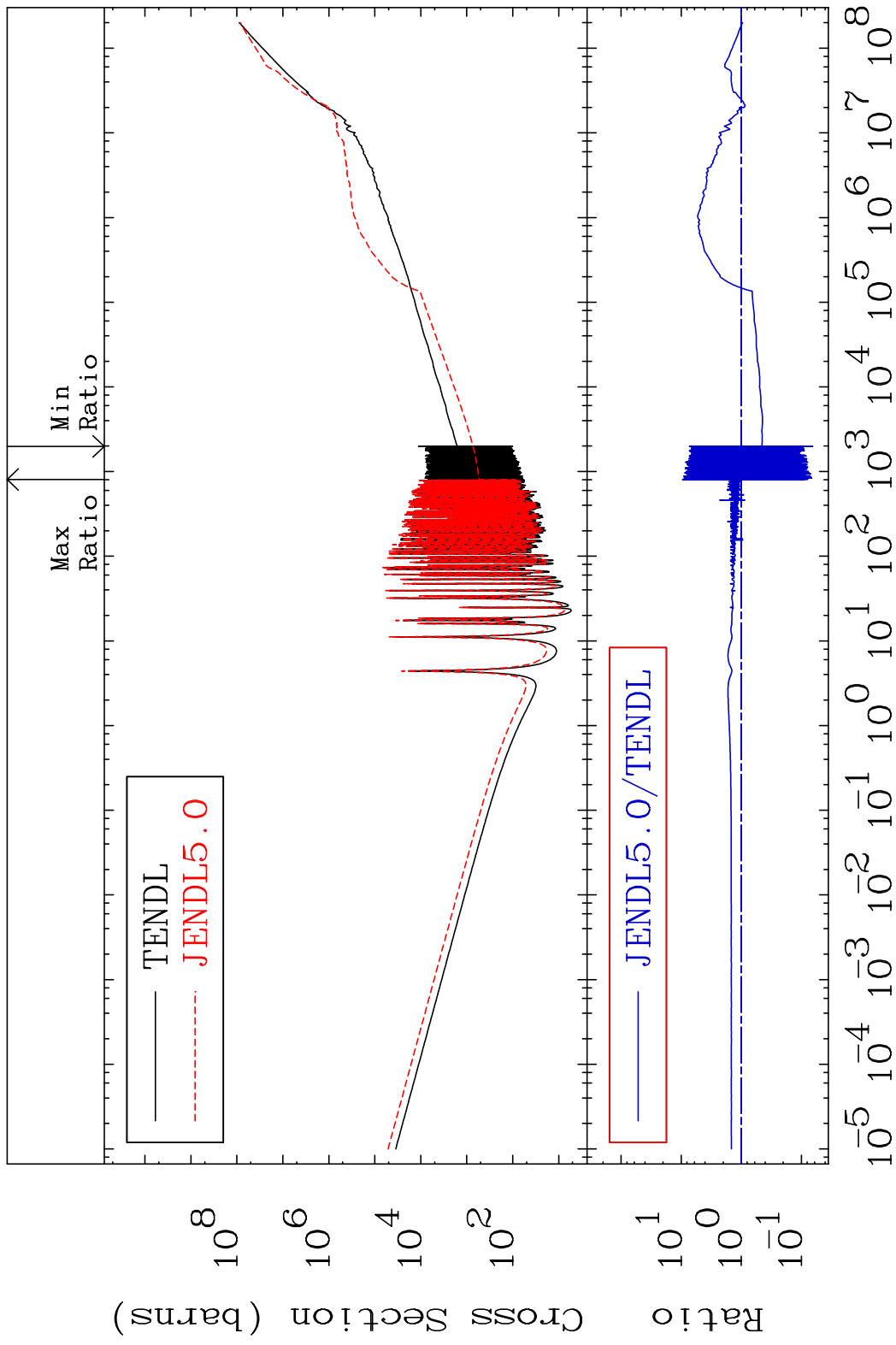


53 Incident Energy (eV) 75-Re-187

MAT 7531 He-4 Production 75-Re-187  
 Cross Section -98.01 To 395.6 %



MAT 7531 Kerma total (eV-barns) 75-Re-187  
 Cross Section -93.49 To 854.7 %



55 75-Re-187

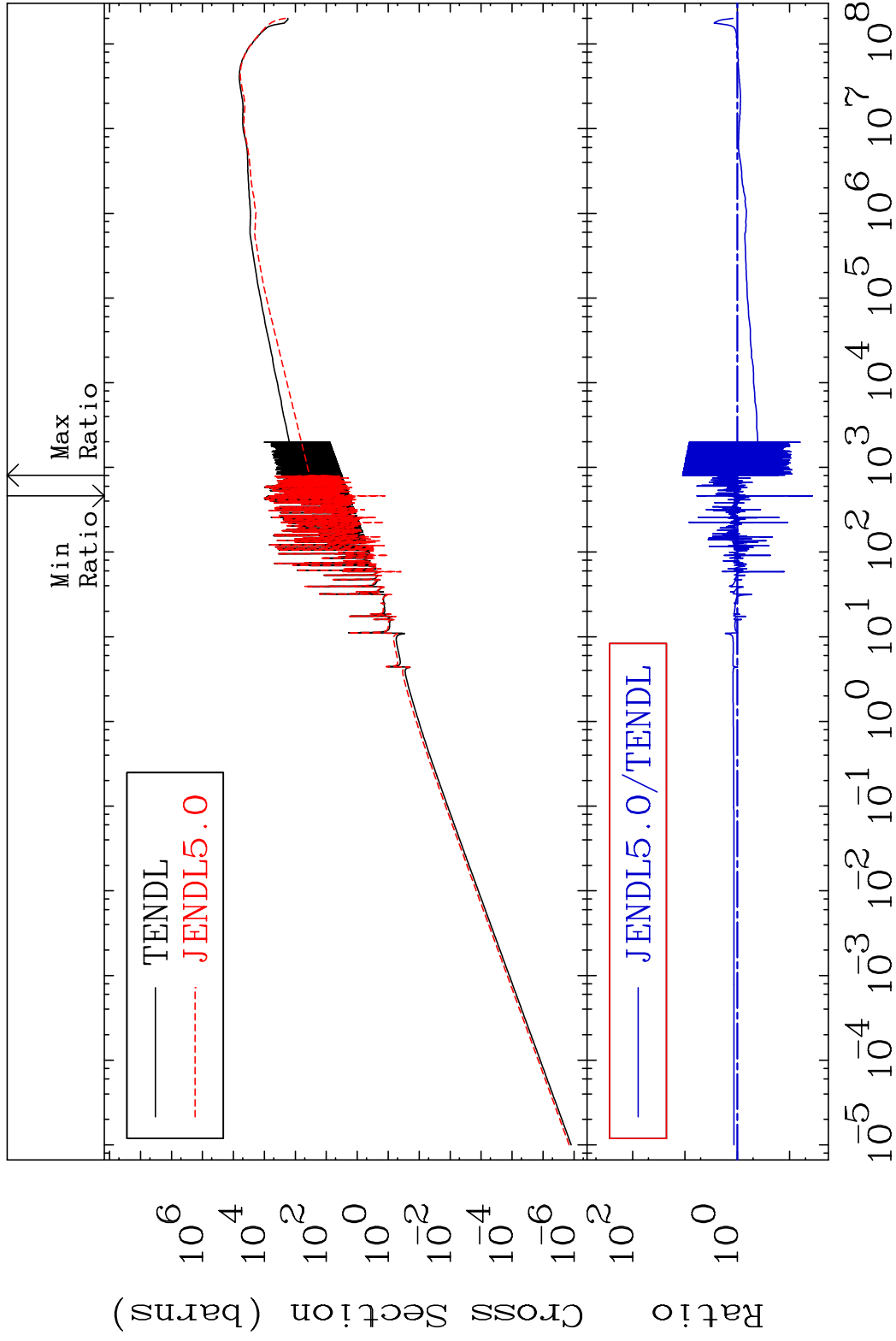


MAT 7531

Kerma elastic

75-Re-187

Cross Section -96.35 To 1023. %

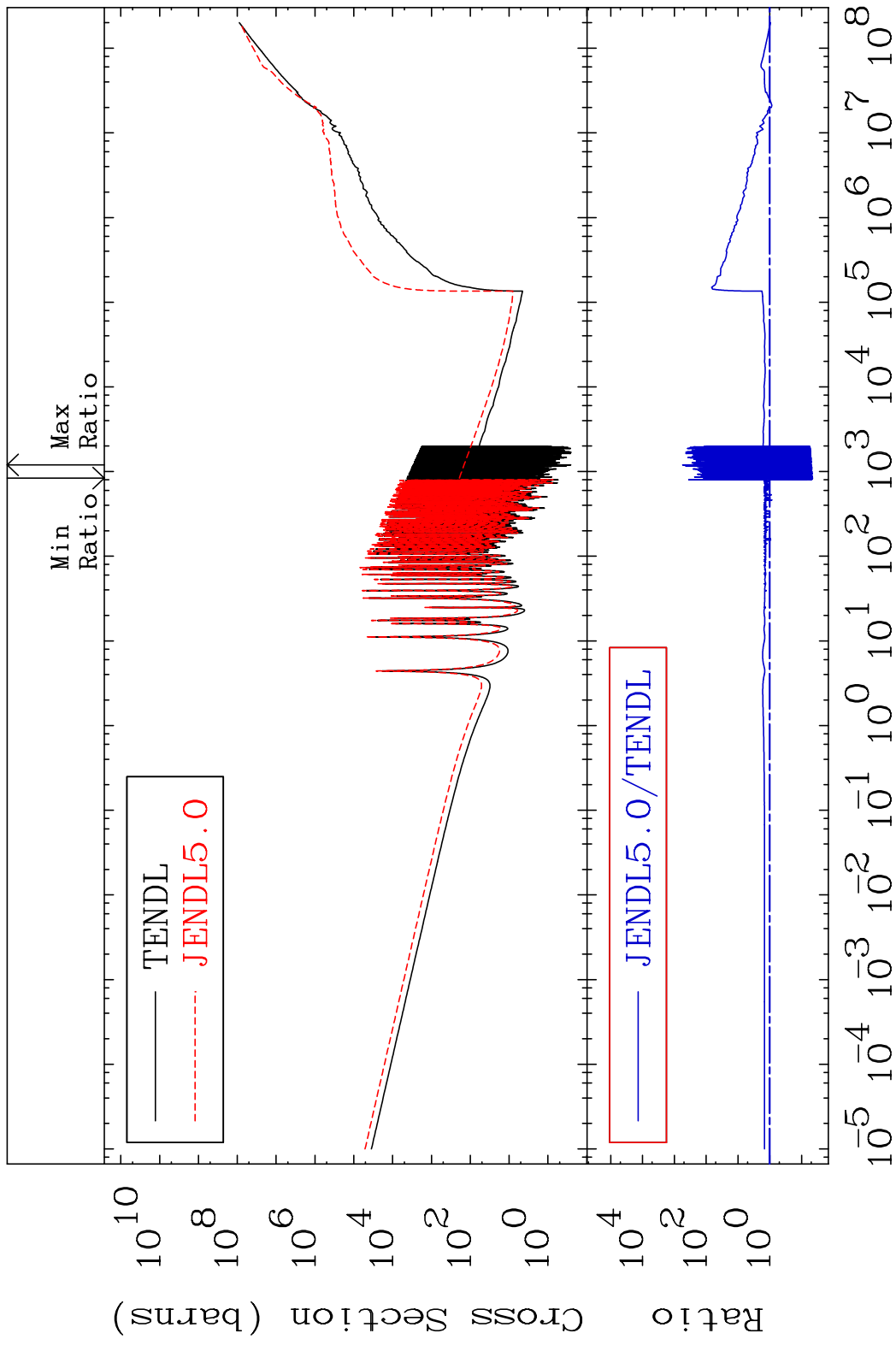


56

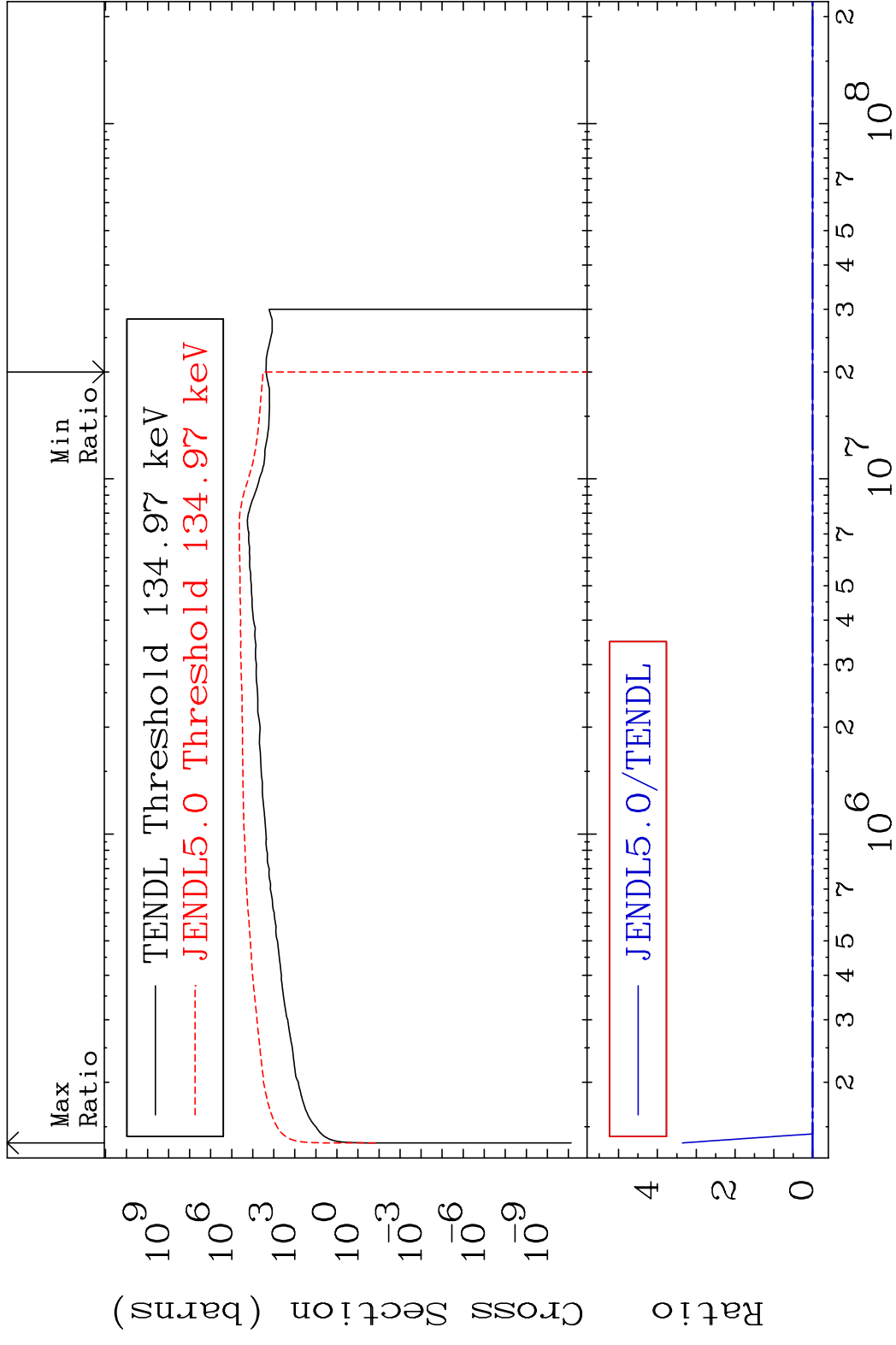
Incident Energy (eV)

75-Re-187

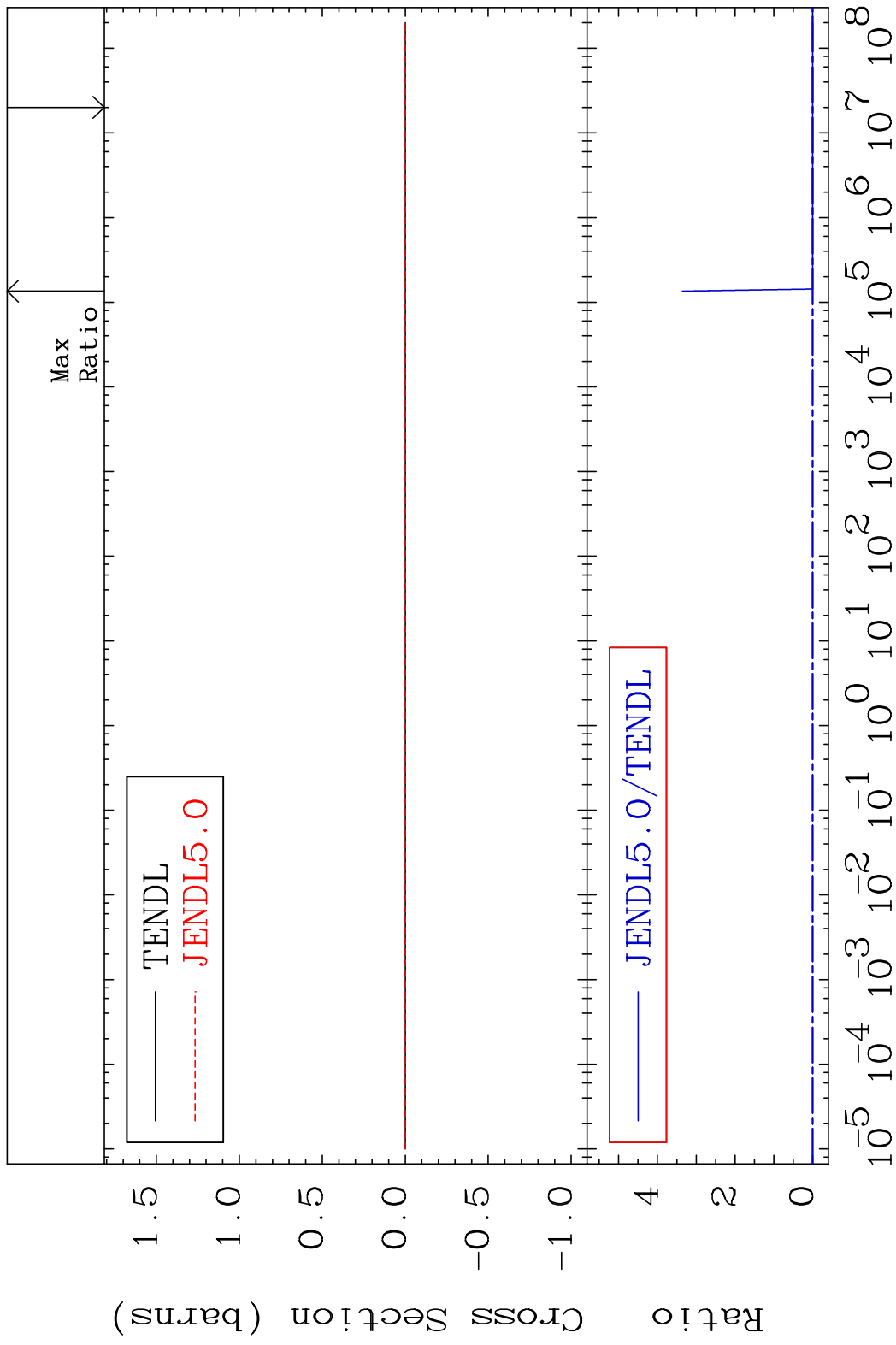
MAT 7531 Kerma non-elastic (all but mt2) 75-Re-187  
 Cross Section -95.47 To 9999. %



MAT 7531 Kerma inelastic (mt51-91) 75-Re-187  
 Cross Section -100.0 To 9999. %



MAT 7531 Kerma fission (mt18 or mt19-20-21-38)75-Re-187  
 Cross Section -100.0 To 9999. %

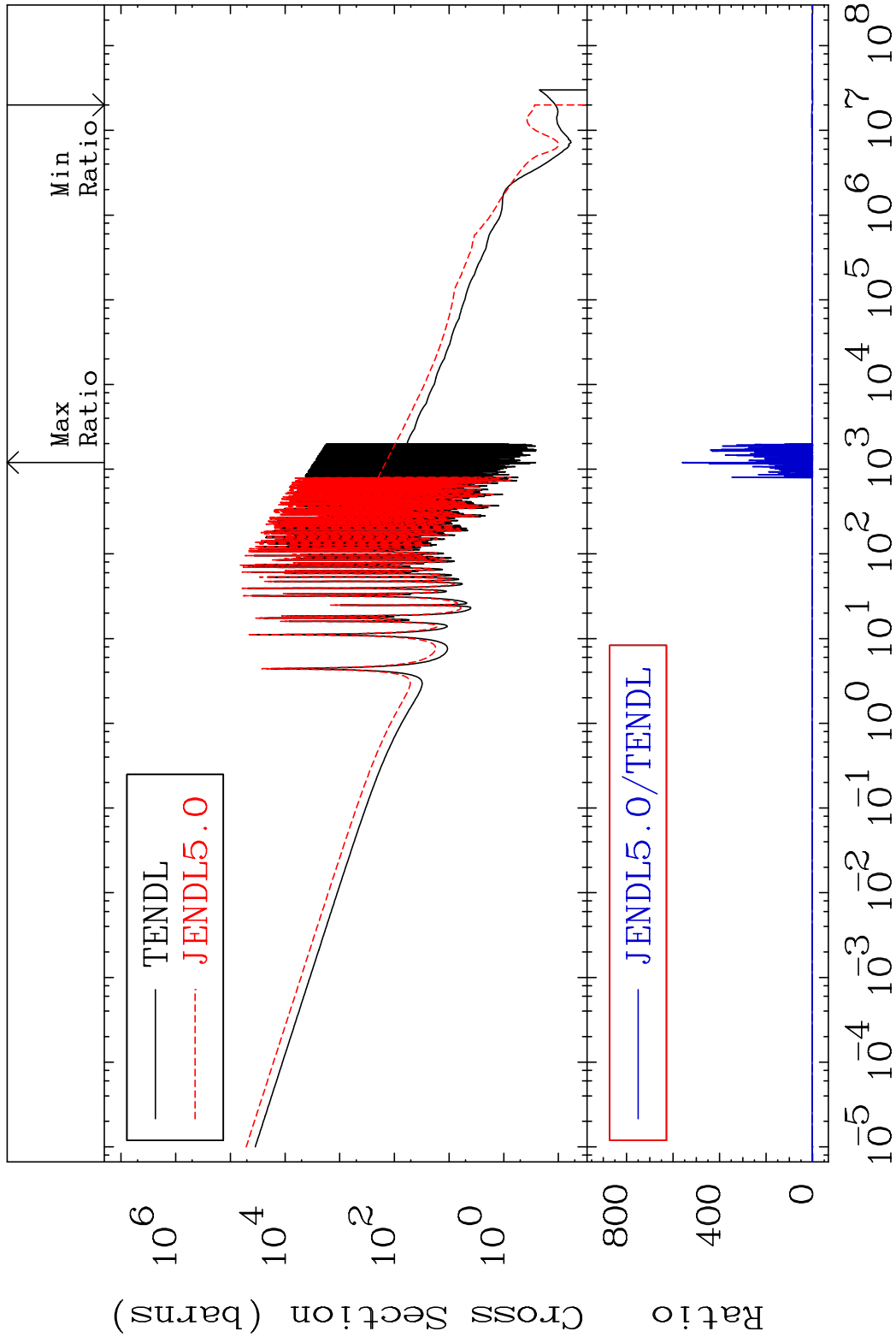


MAT 7531

Kerma capture (mt102)

75-Re-187

Cross Section -100.0 To 9999. %



60

Incident Energy (eV)

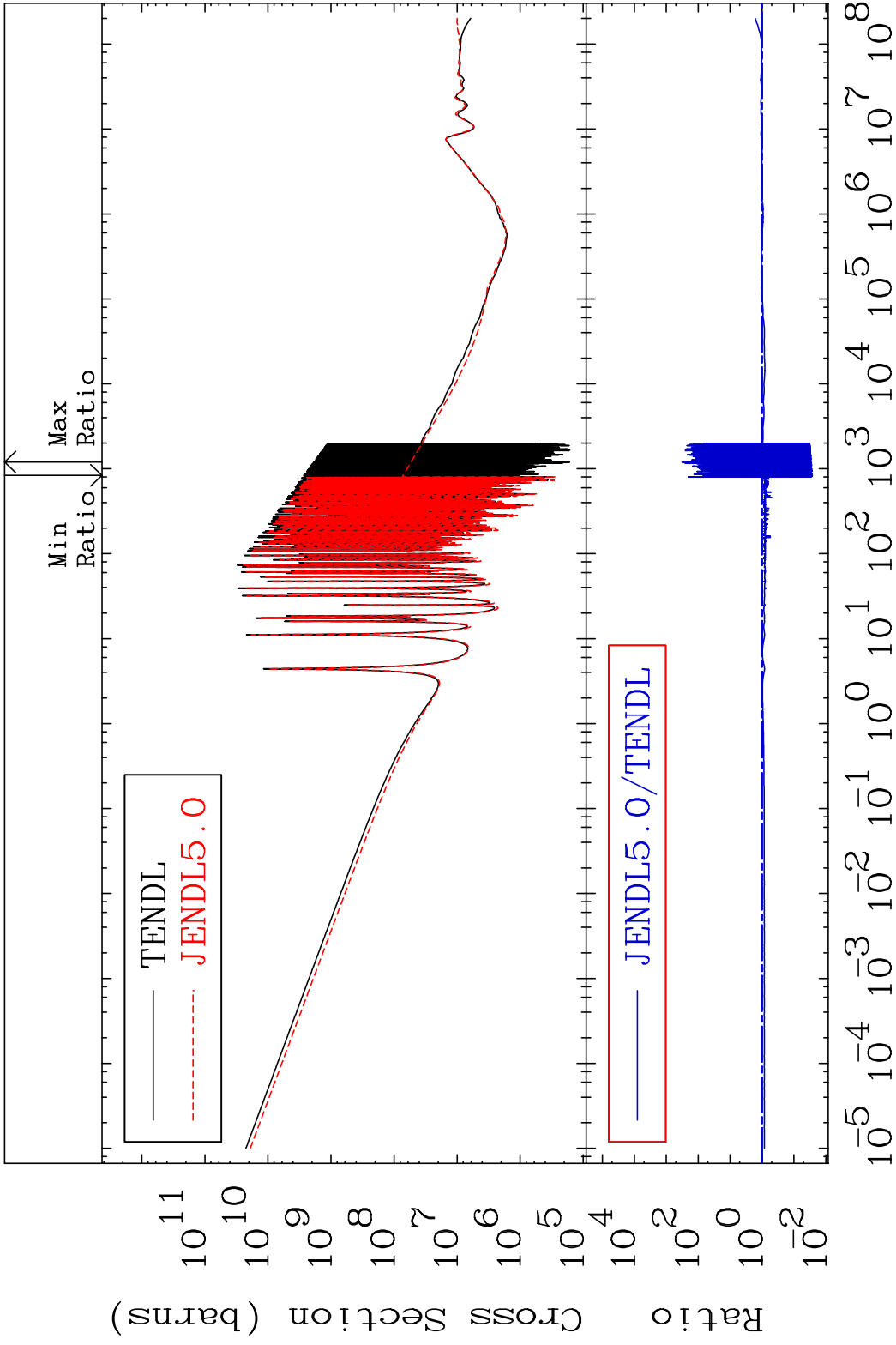
75-Re-187

MAT 7531

Total photon (eV-barns)

75-Re-187

Cross Section -97.34 To 9999. %

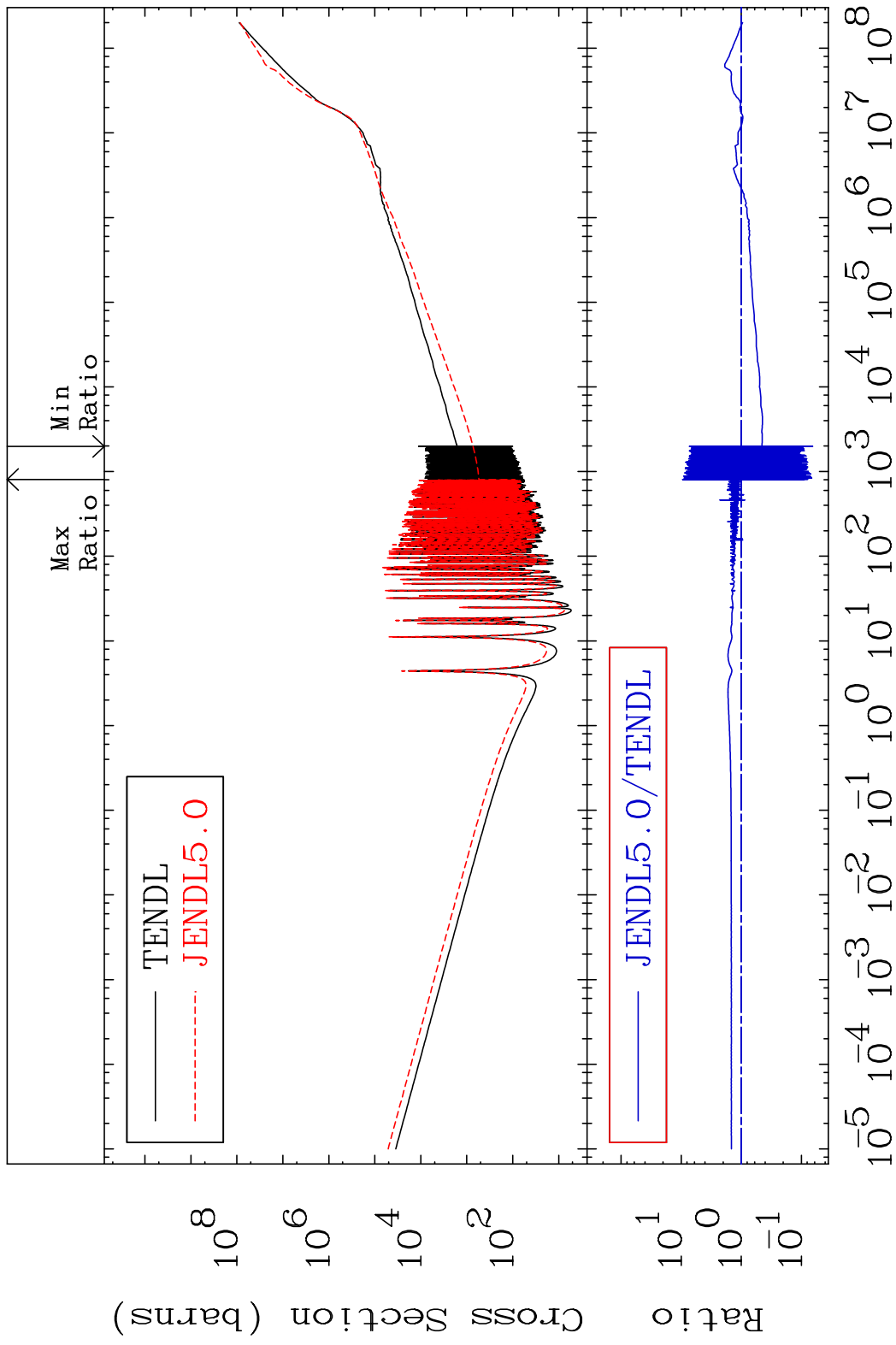


61

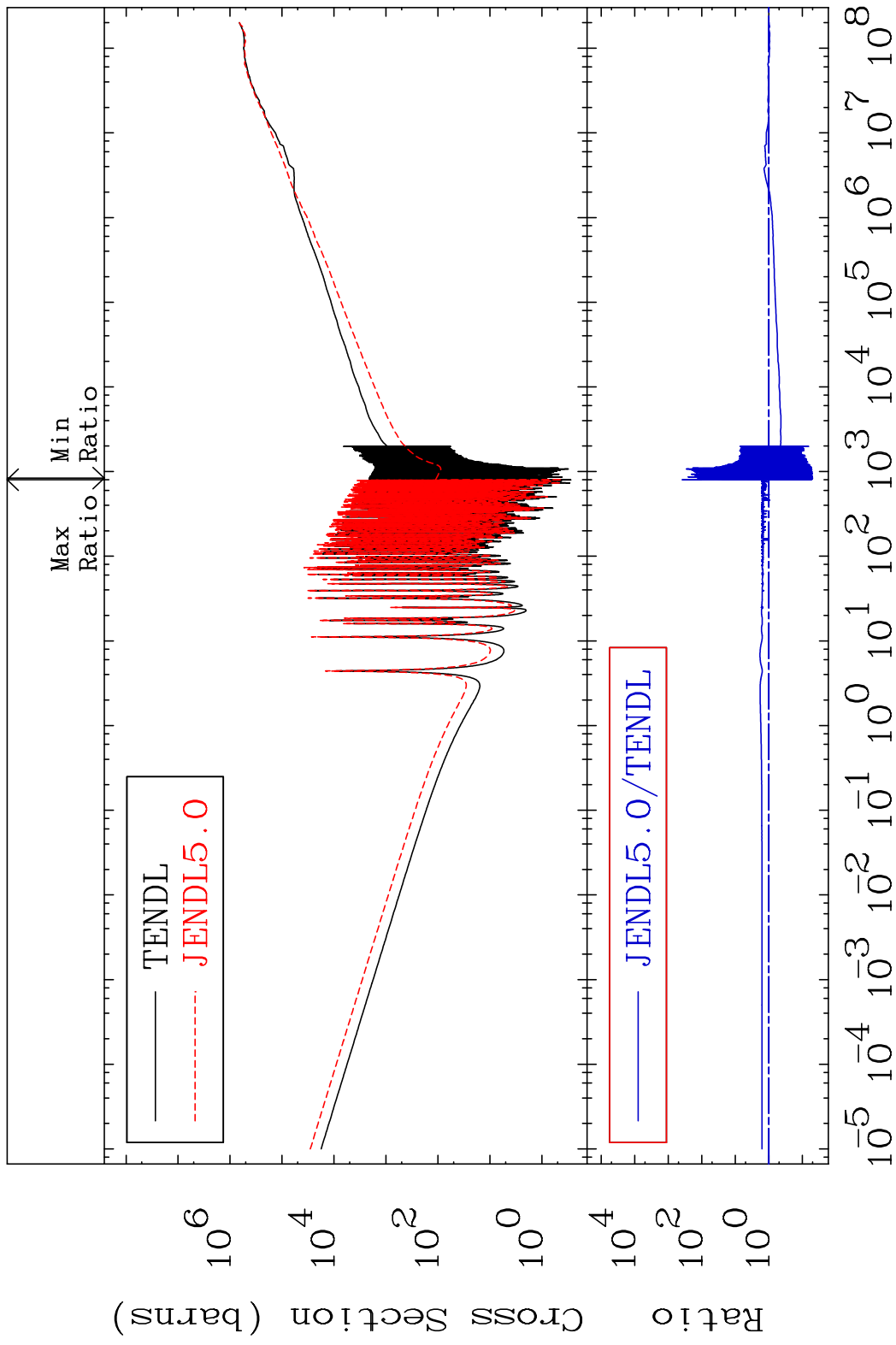
Incident Energy (eV)

75-Re-187

MAT 7531 Total kinematic kerma (high limit) 75-Re-187  
Cross Section -93.49 To 854.7 %



MAT 7531      Dpa total (eV-barns)      75-Re-187  
 Cross Section      -95.01 To 9999. %



63      Incident Energy (eV)      75-Re-187

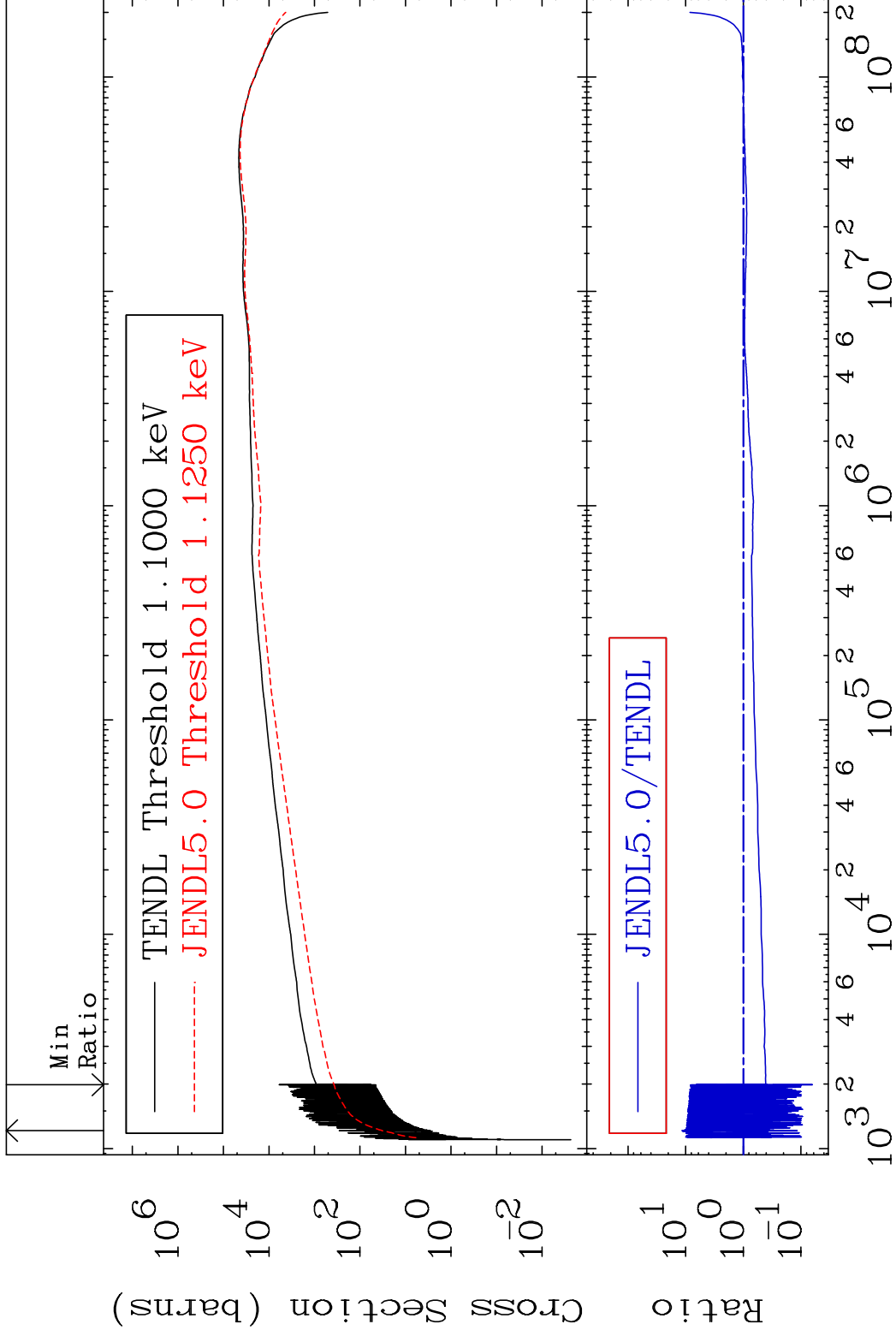


MAT 7531

Dpa elastic (mt2)

75-Re-187

Cross Section -93.69 To 1049. %

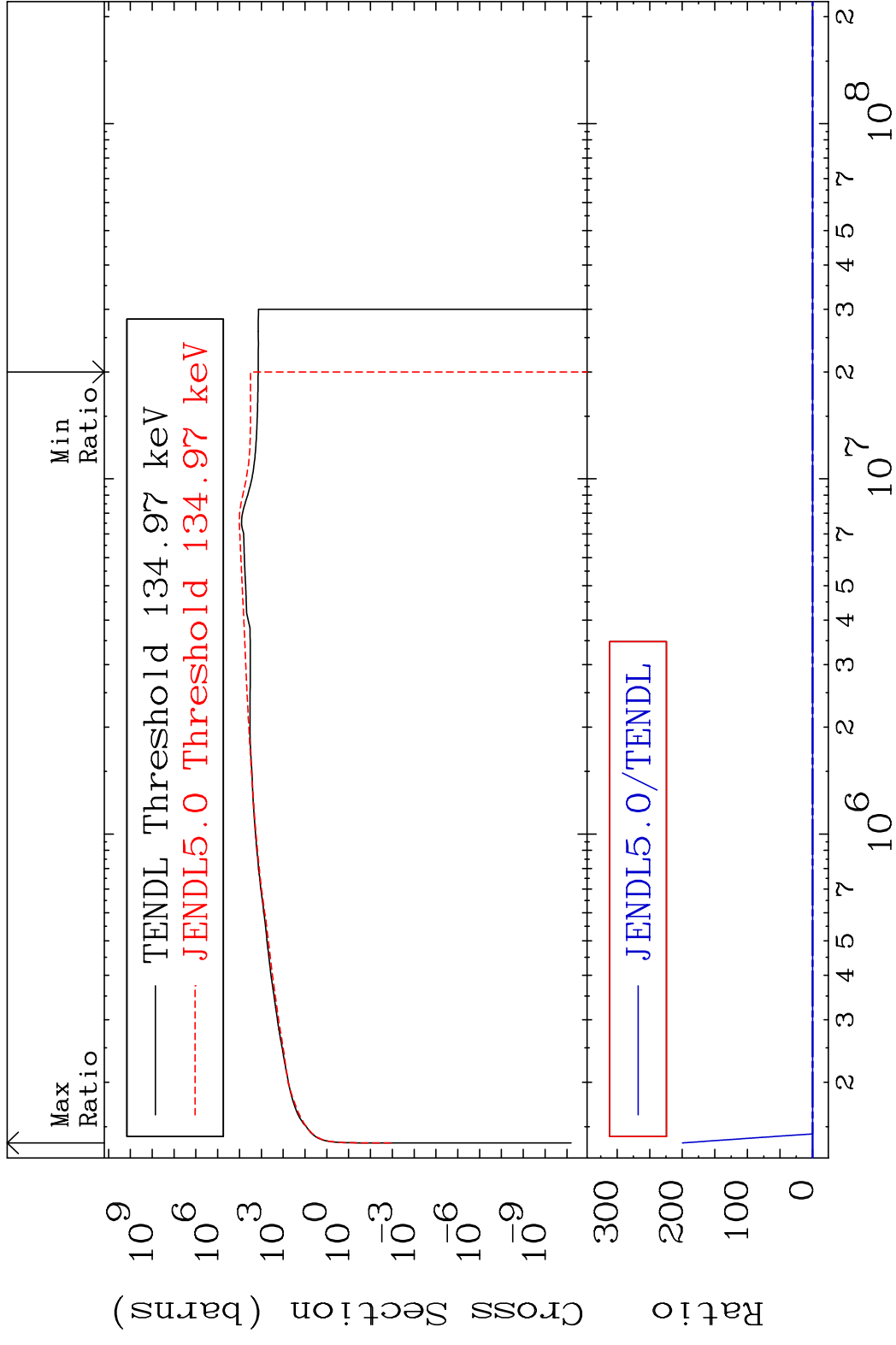


64

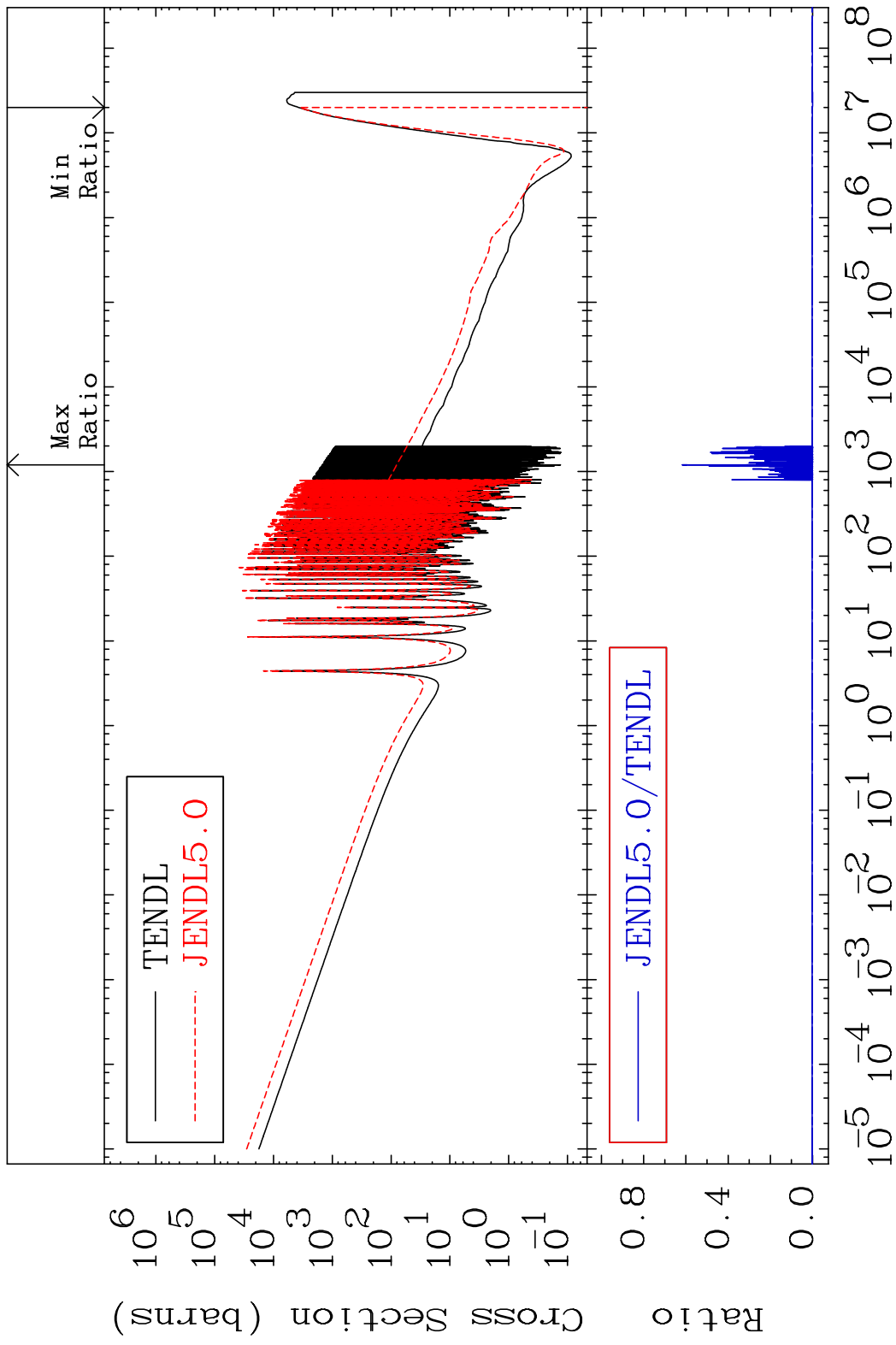
Incident Energy (eV)

75-Re-187

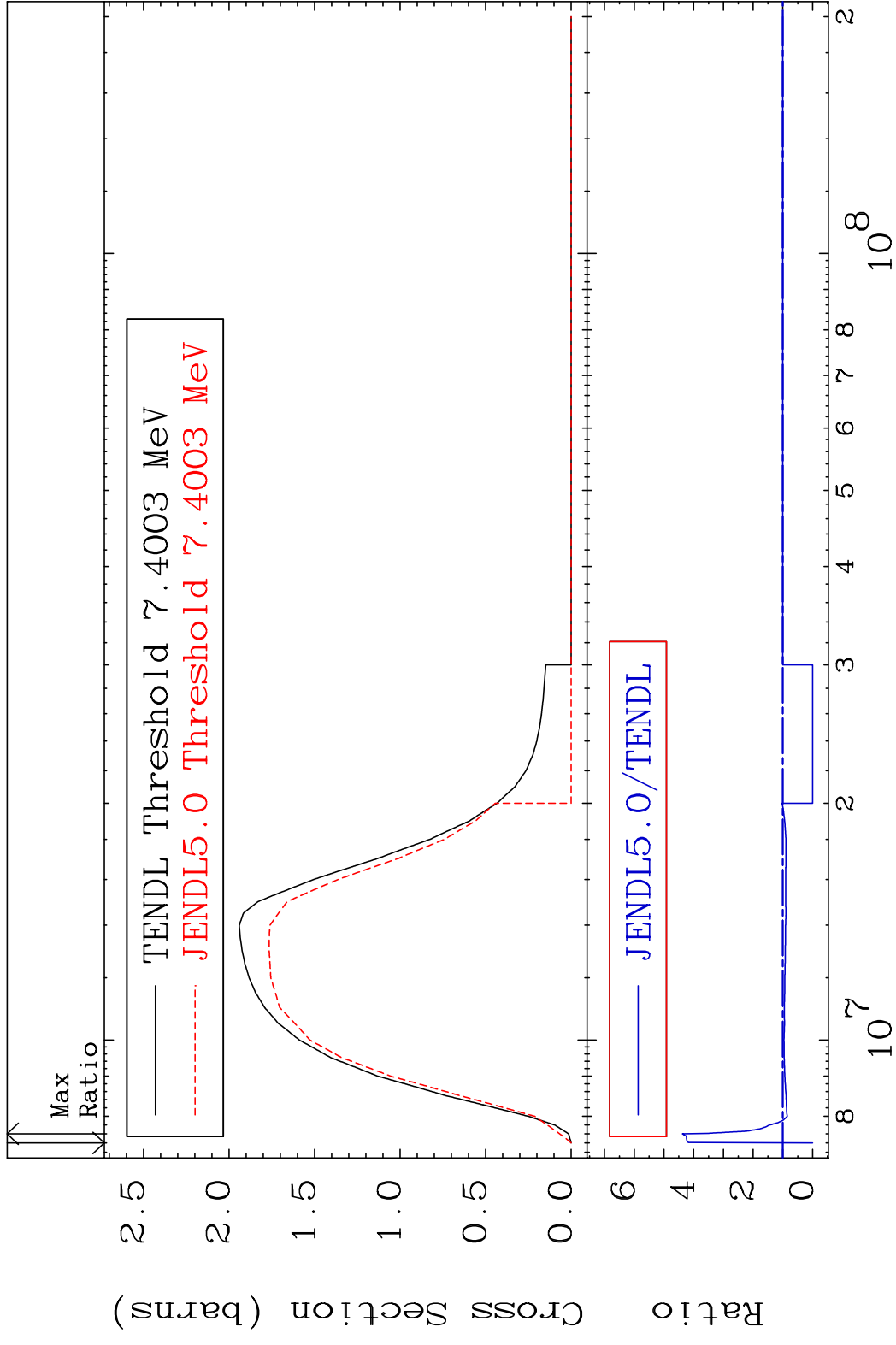
MAT 7531 Dpa inelastic (mt51-91) 75-Re-187  
 Cross Section -100.0 To 9999. %



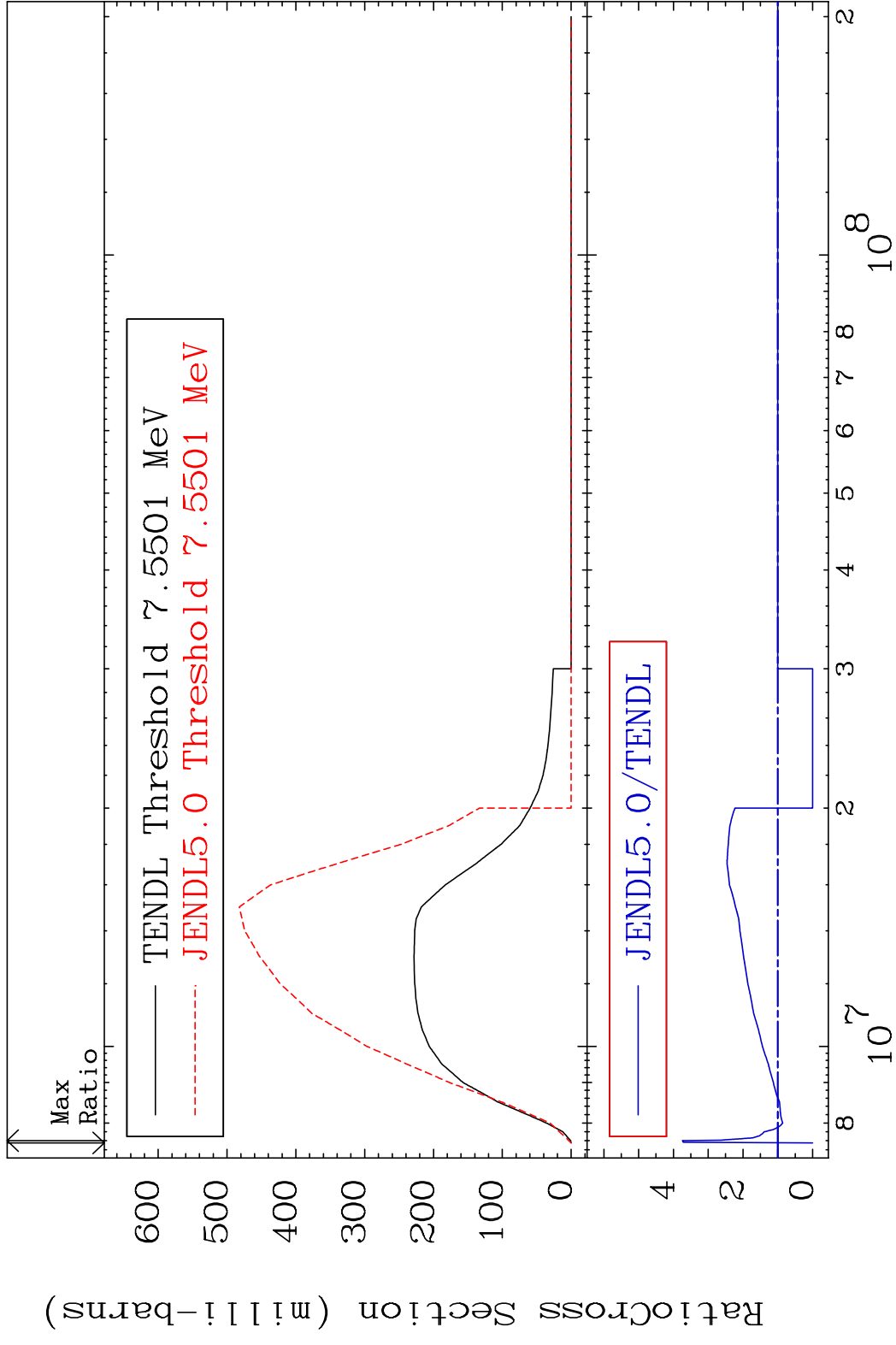
MAT 7531 Dpa disappearance (mt102 -120) 75-Re-187  
 Cross Section -100.0 To 9999. %

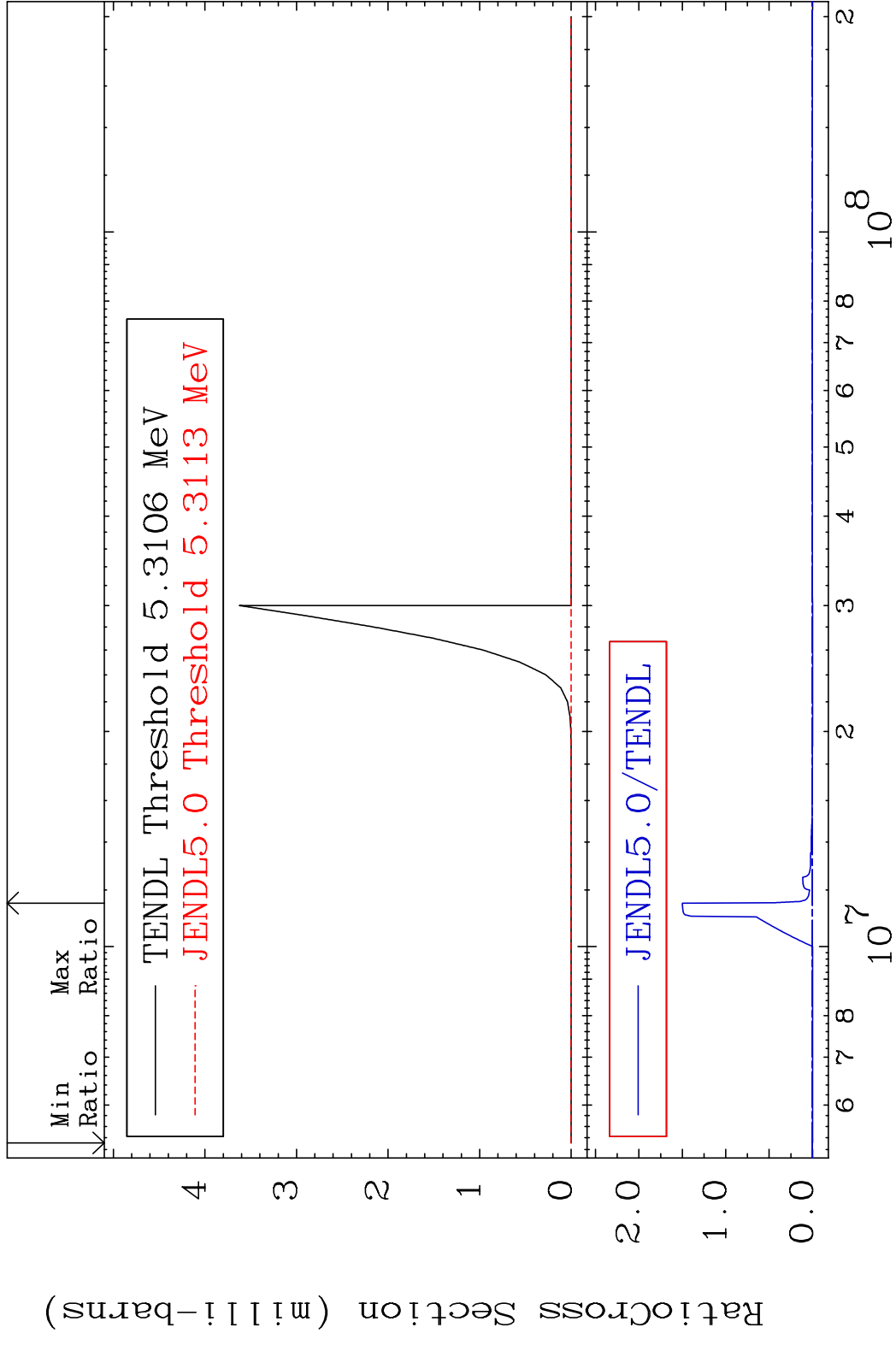


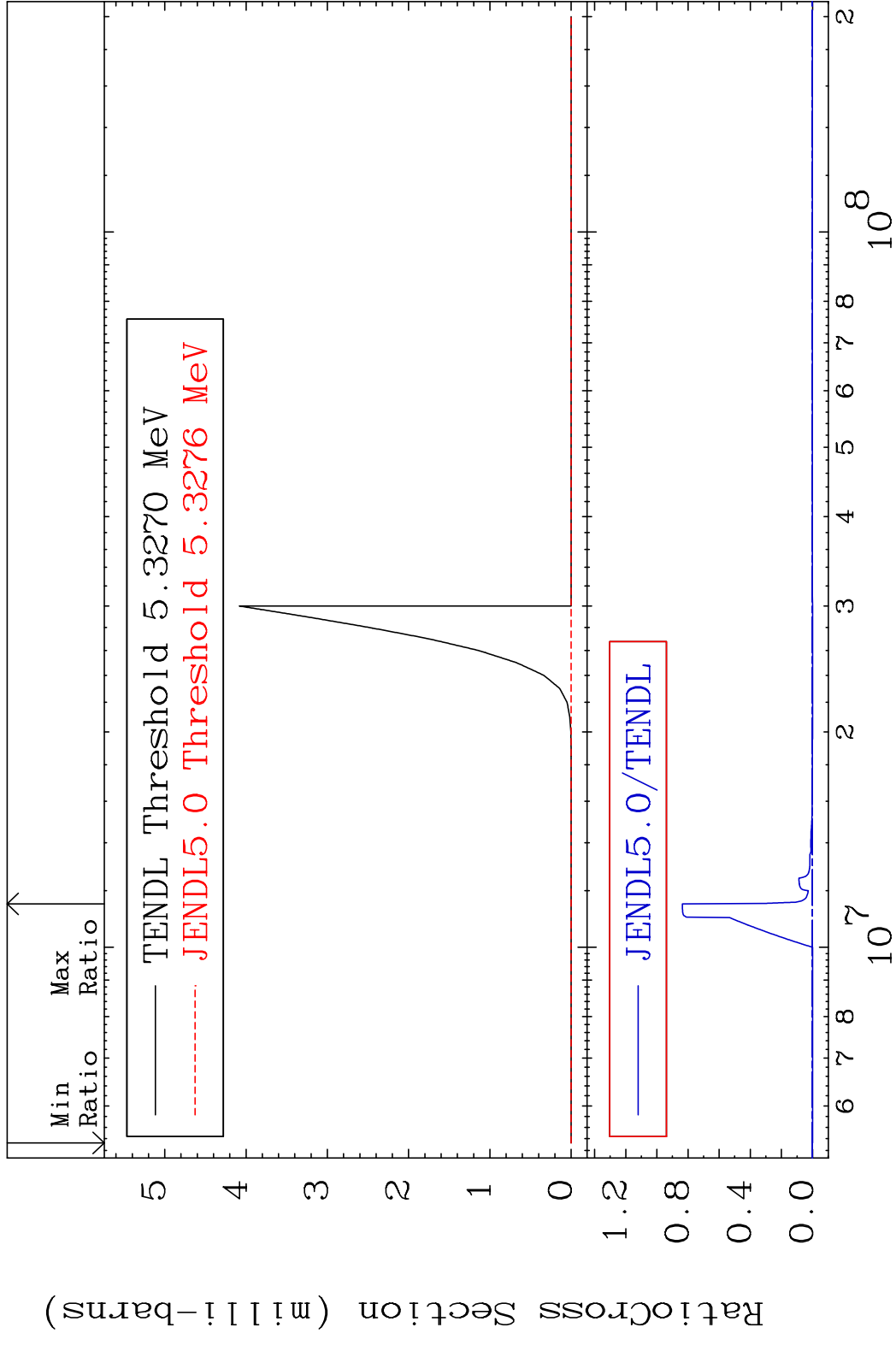
MAT 7531 (n,2n):75-Re-186g 75-Re-187  
 Radionuclide Production Cross Section 186.0 dth 338.0 %



MAT 7531 (n, 2n) : 75-Re-186m4 75-Re-187  
 Radionuclide Production Cross Section Ratio 274.3 %

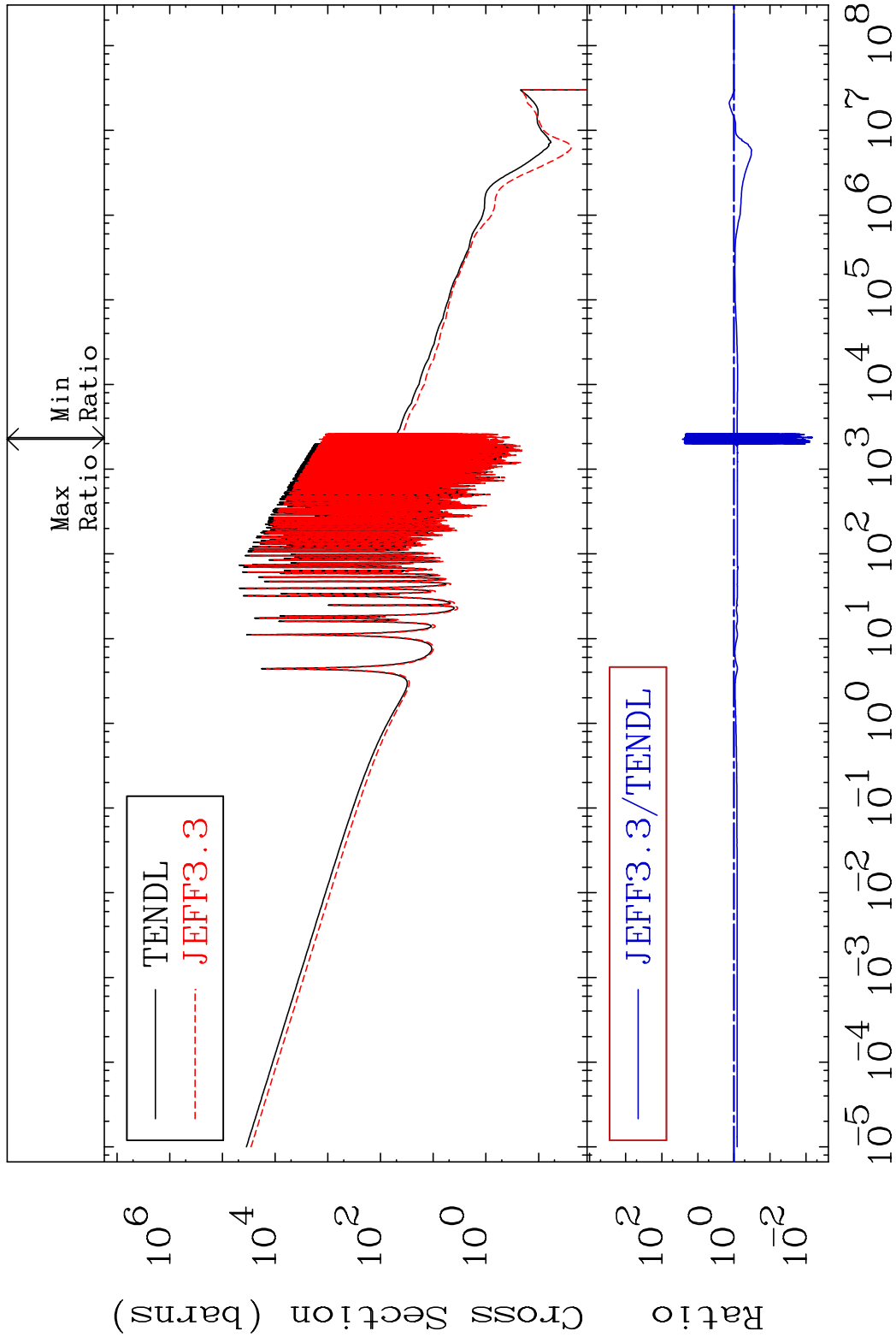






MAT 7531

Kerma capture (mt102) 75-Re-187  
Cross Section -99.34 To 2584. %



71

Incident Energy (eV)

75-Re-187

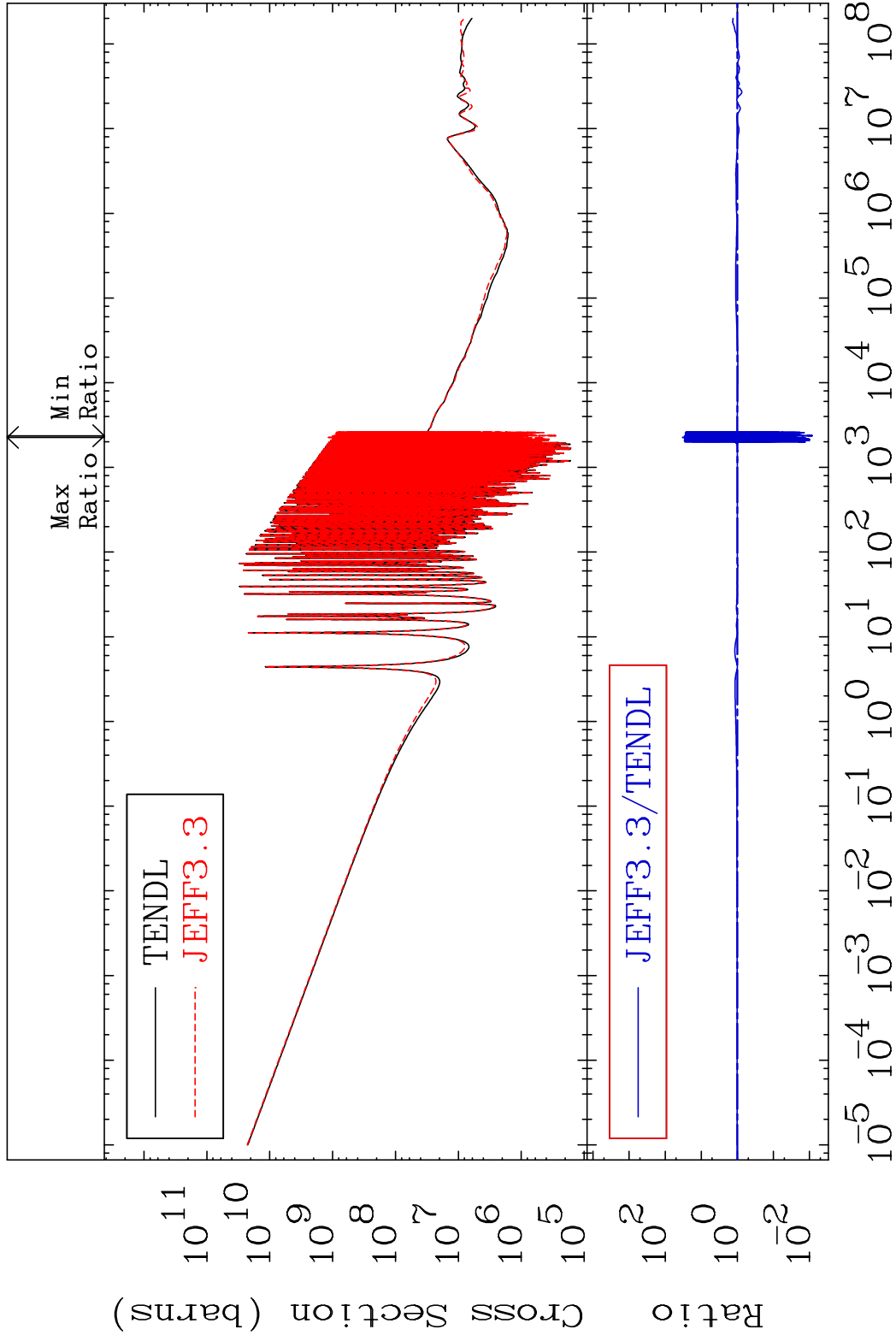


MAT 7531

Total photon (eV-barns)

75-Re-187

Cross Section -99.18 To 3246. %

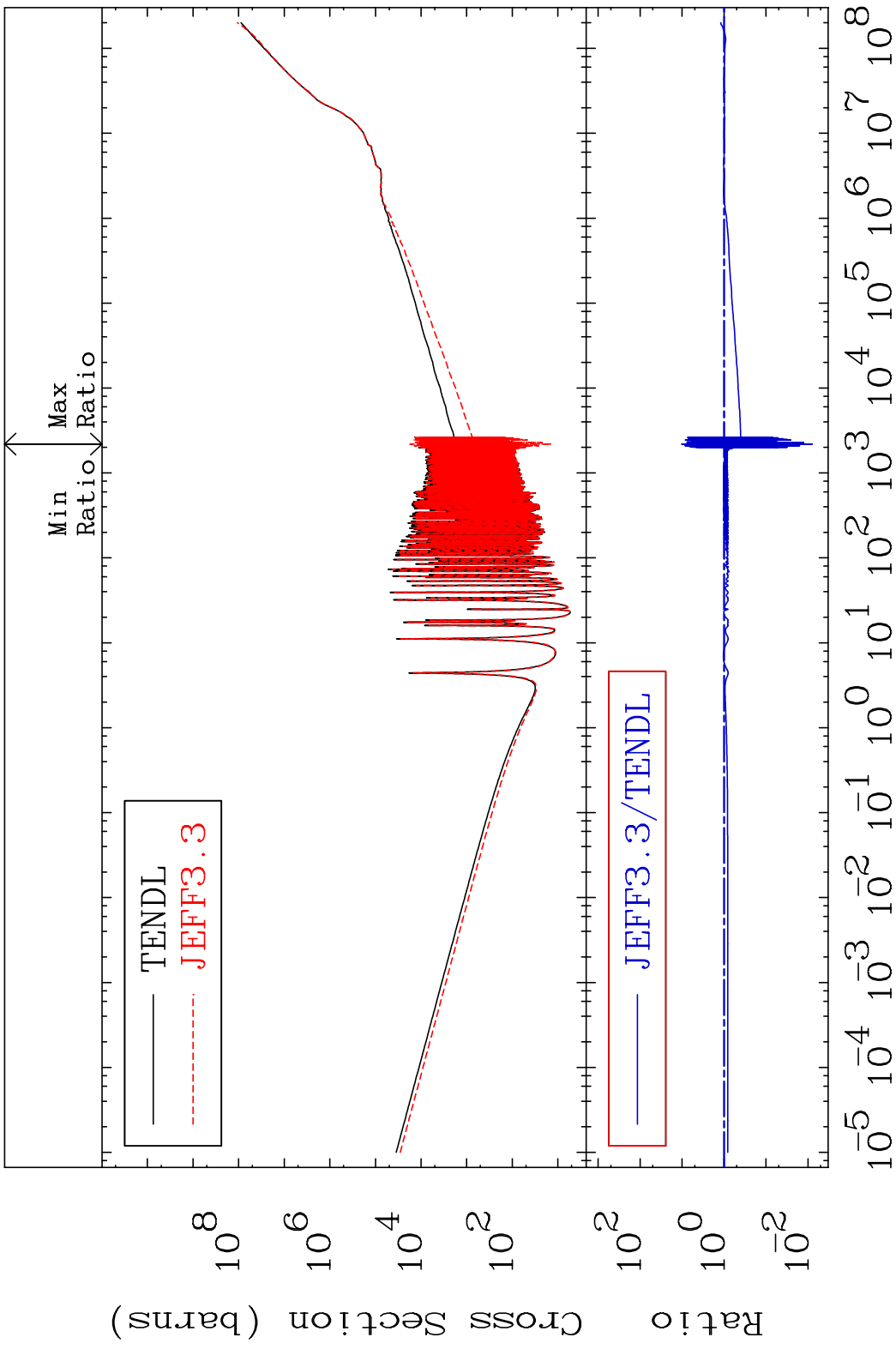


72

Incident Energy (eV)

75-Re-187

MAT 7531 Total kinematic kerma (high limit) 75-Re-187  
Cross Section -99.21 To 919.3 %



73

Incident Energy (eV)

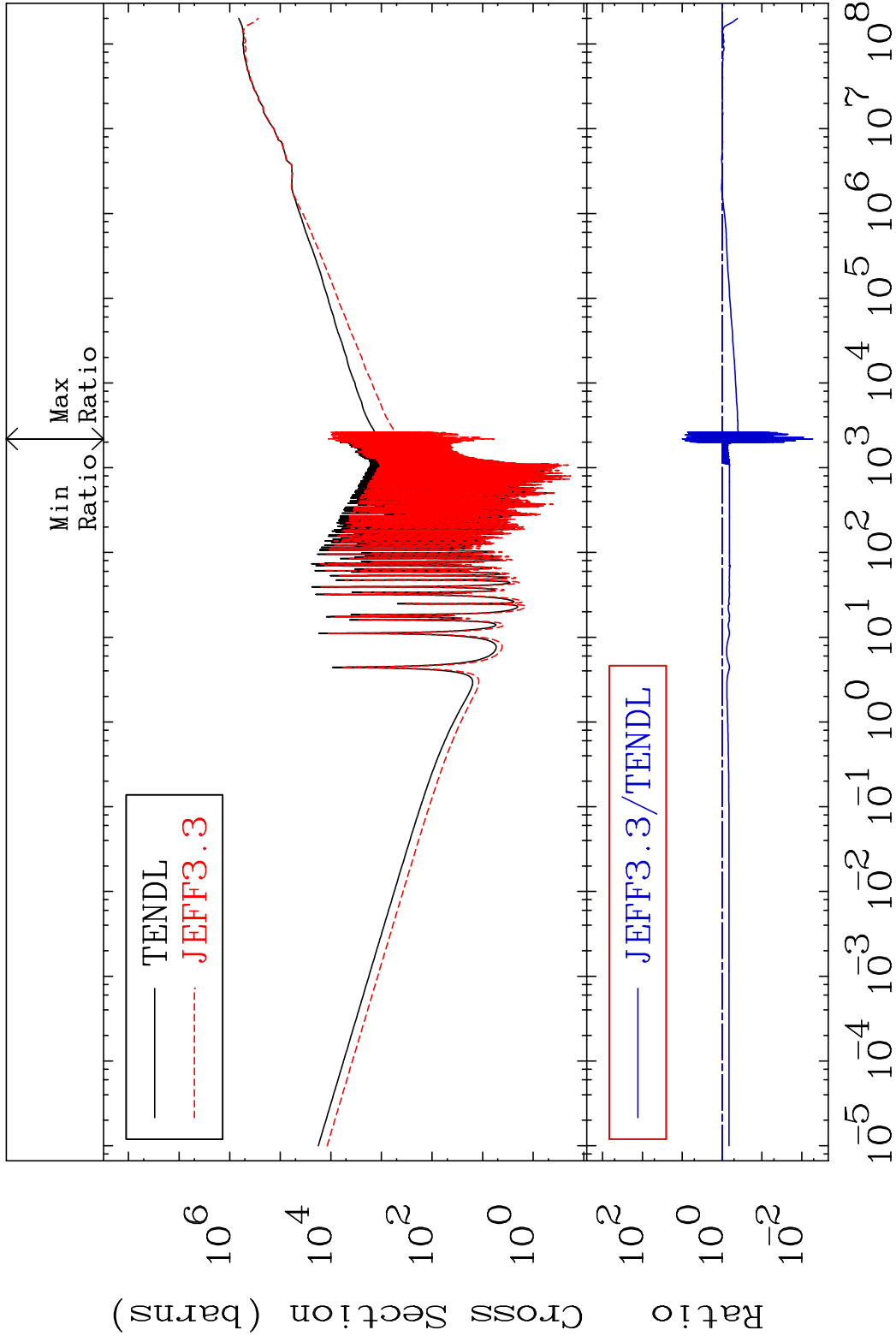
75-Re-187

MAT 7531

Dpa total (eV-barns)

75-Re-187

Cross Section -99.46 To 906.4 %



74

Incident Energy (eV)

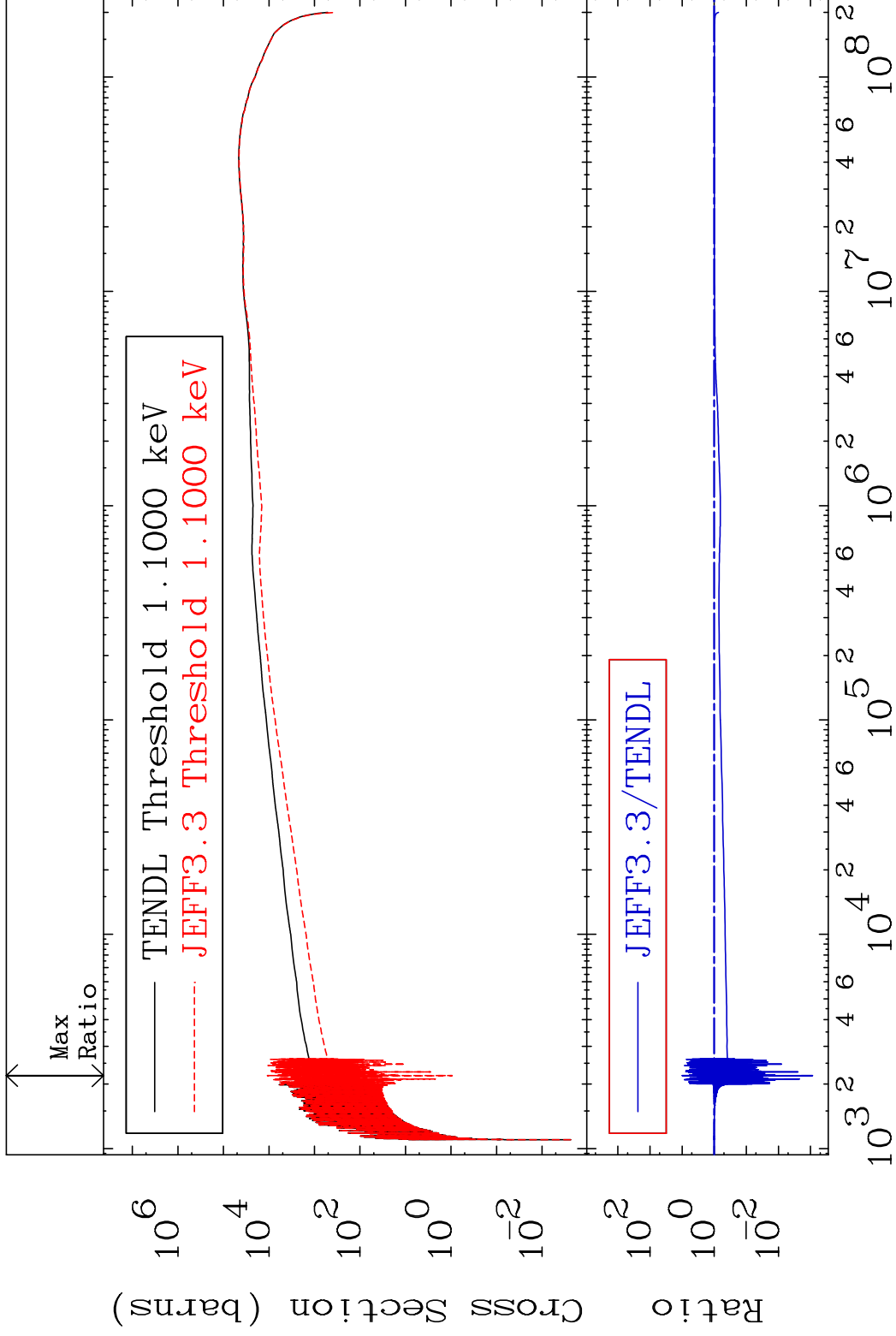
75-Re-187

MAT 7531

Dpa elastic (mt2)

75-Re-187

Cross Section -99.91 To 896.3 %

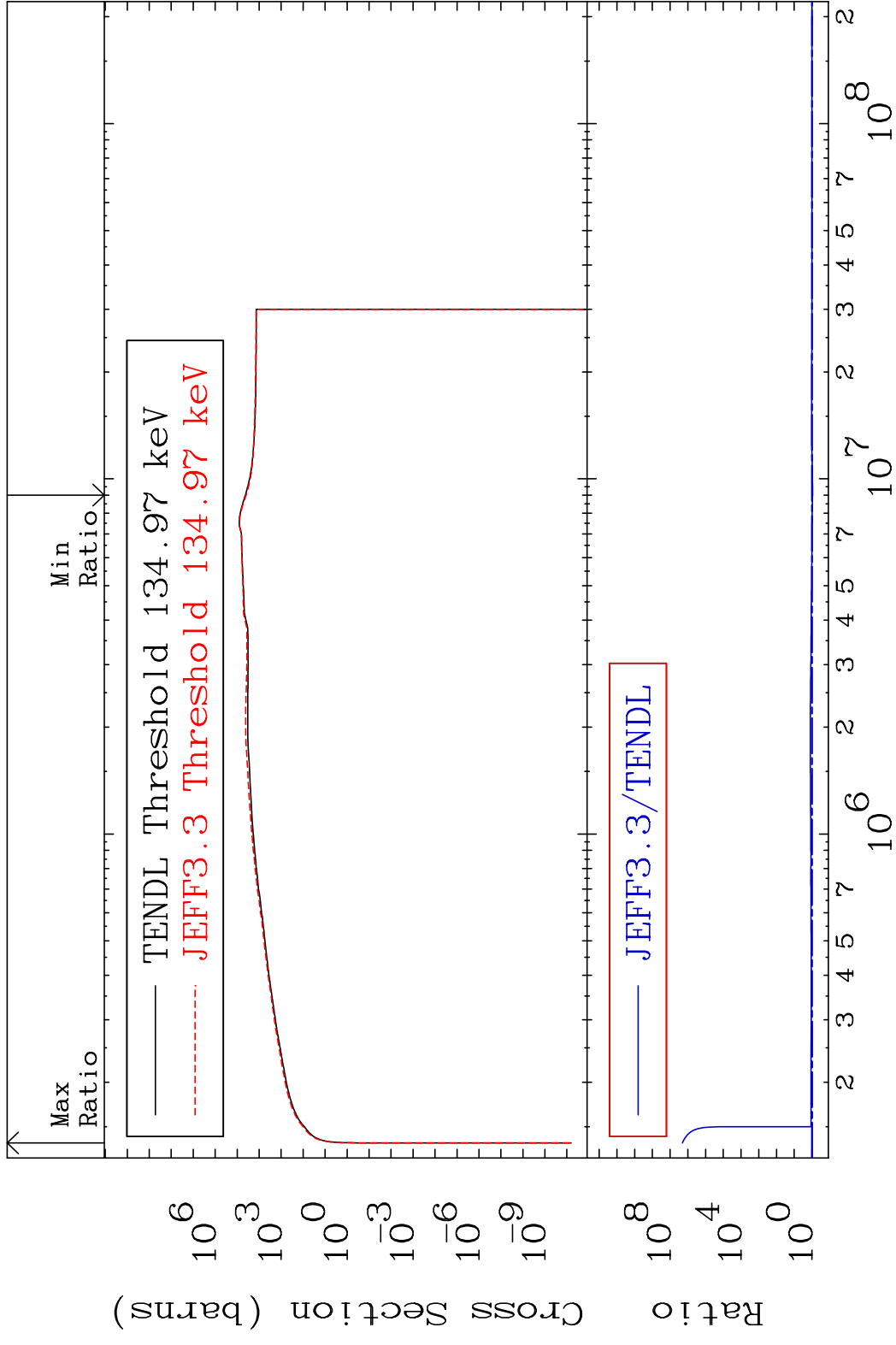


75

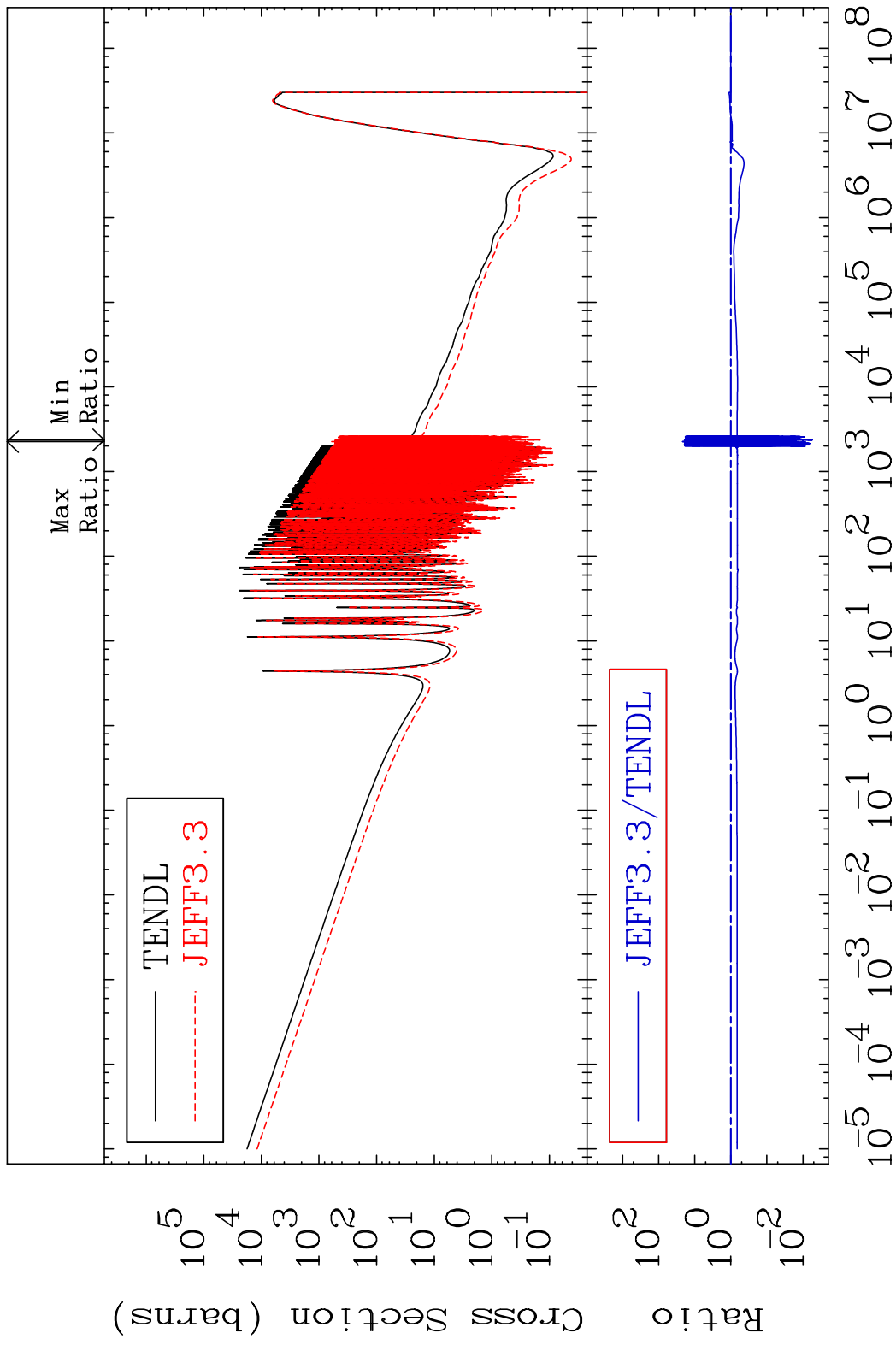
Incident Energy (eV)

75-Re-187

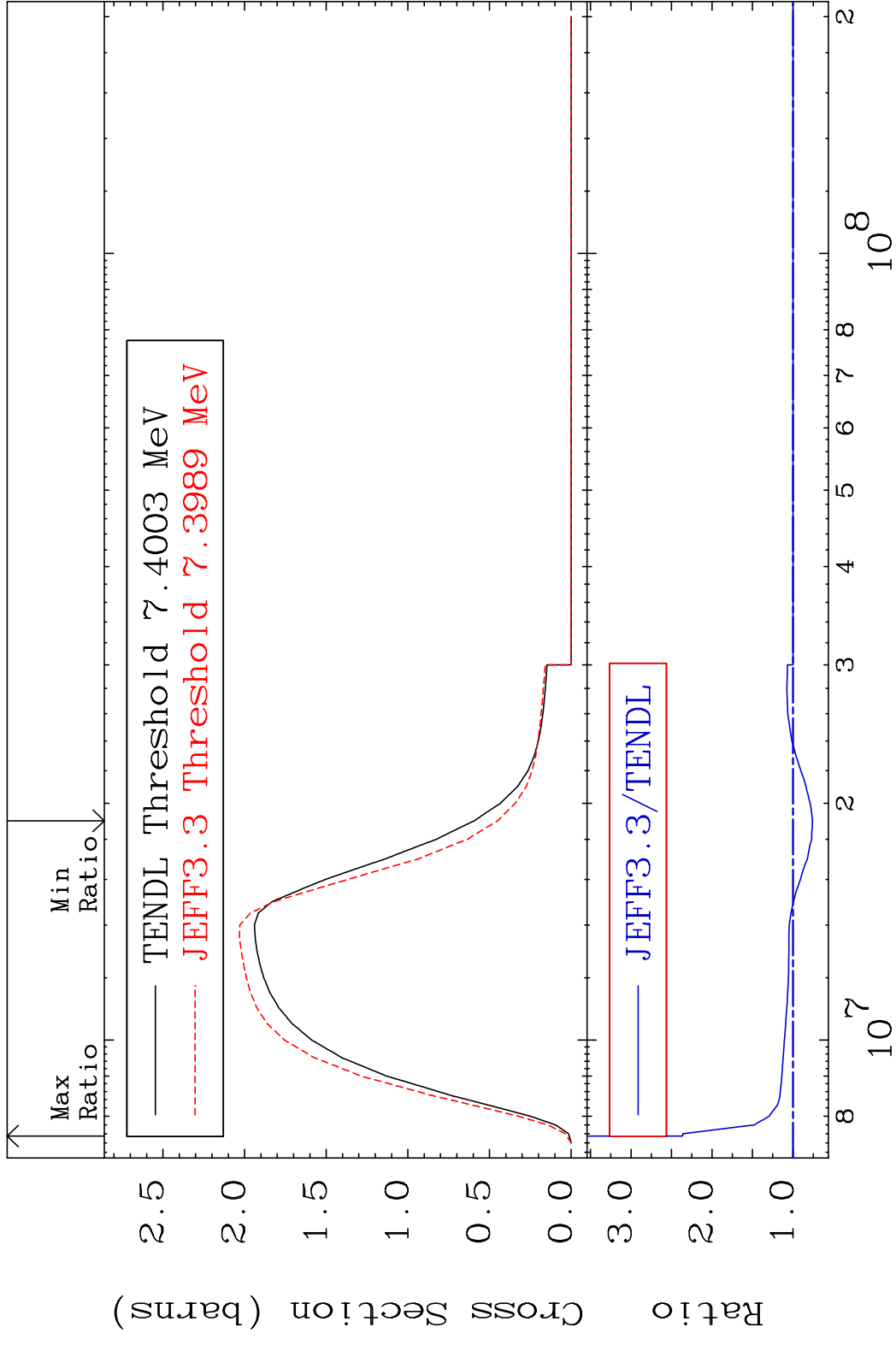
MAT 7531 Dpa inelastic (mt51-91) 75-Re-187  
 Cross Section -7.951 To 9999. %



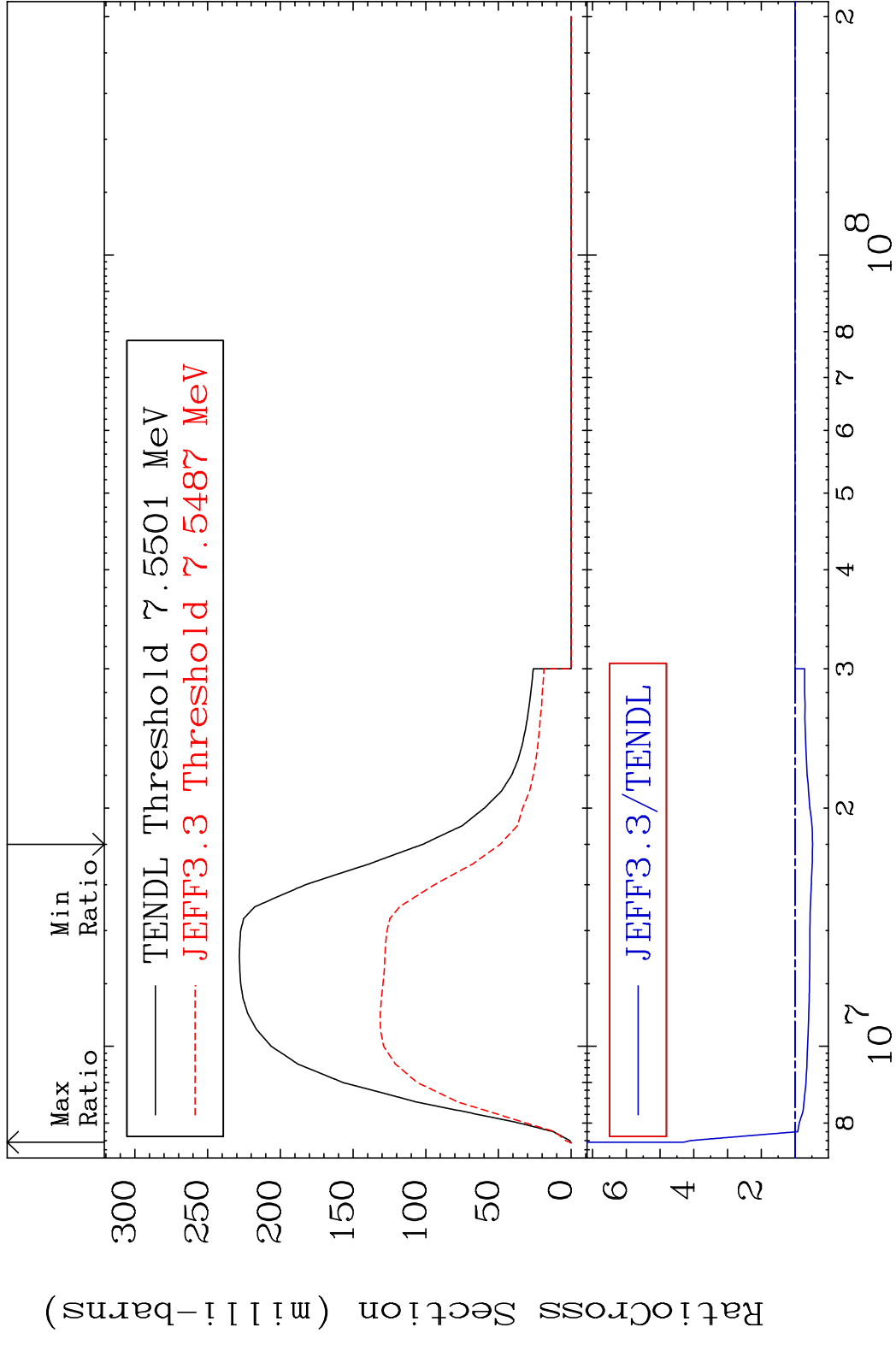
MAT 7531 Dpa disappearance (mt102 -120) 75-Re-187  
 Cross Section -99.46 To 2098. %



MAT 7531 (n,2n):75-Re-186g 75-Re-187  
 Radionuclide Production Cross Section 136.6 %

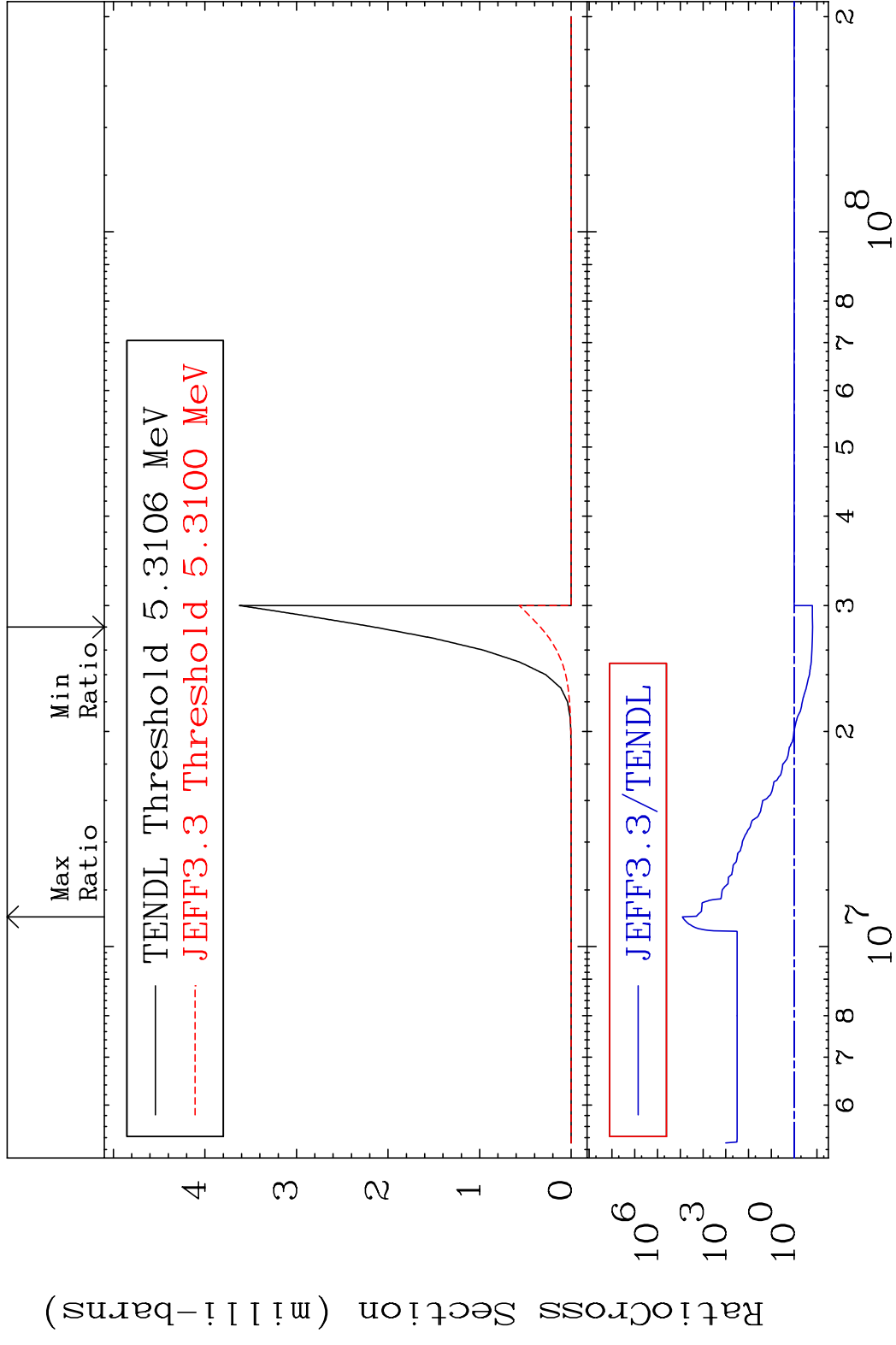


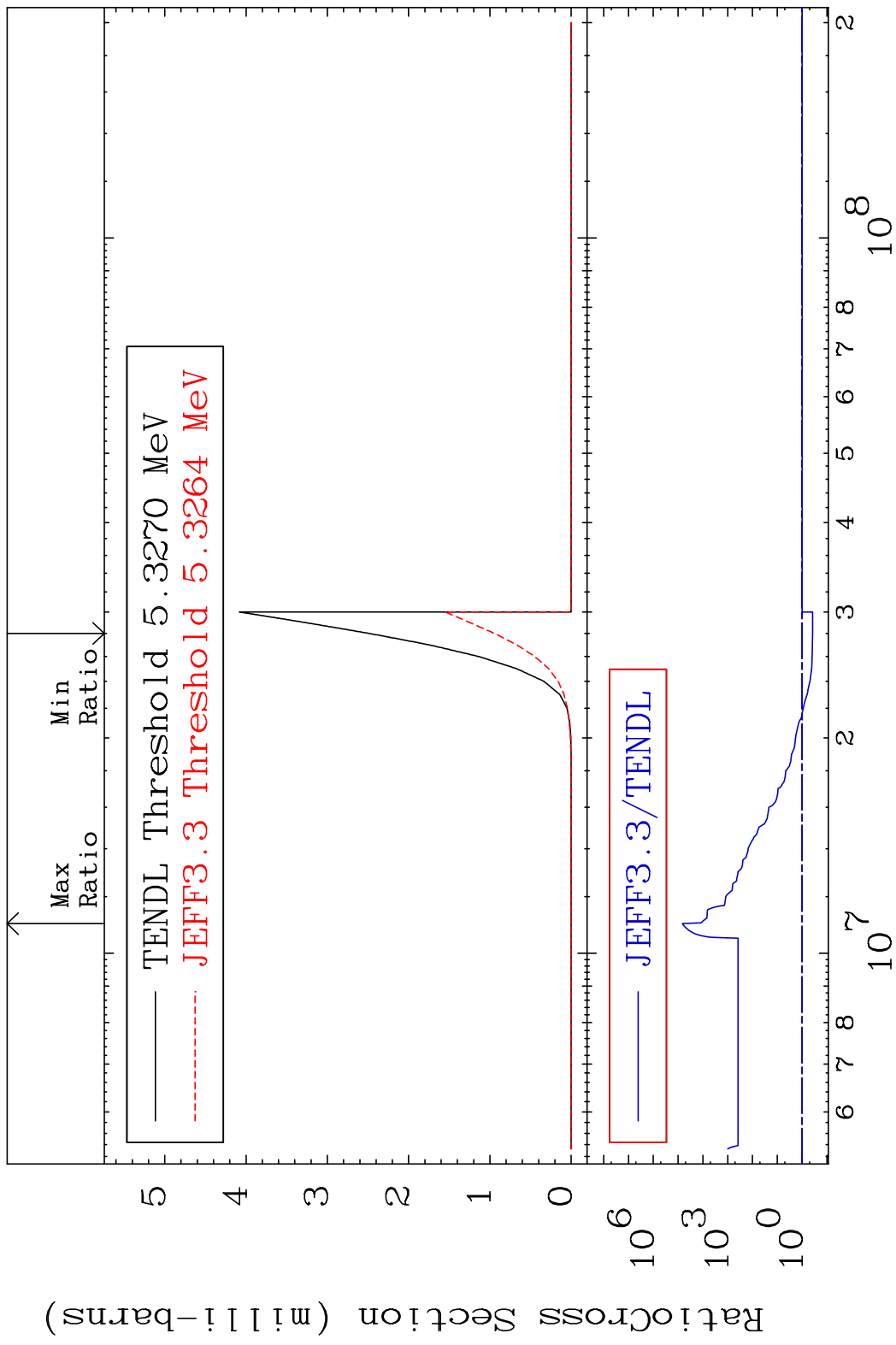
MAT 7531 (n,2n):75-Re-186m4 75-Re-187  
 Radionuclide Production Cross Section 333.8 %



79 Incident Energy (eV) 75-Re-187







MAT 7531 (n,4n):75-Re-184g 75-Re-187  
 Radionuclide Production Cross Section 4418. %

