

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

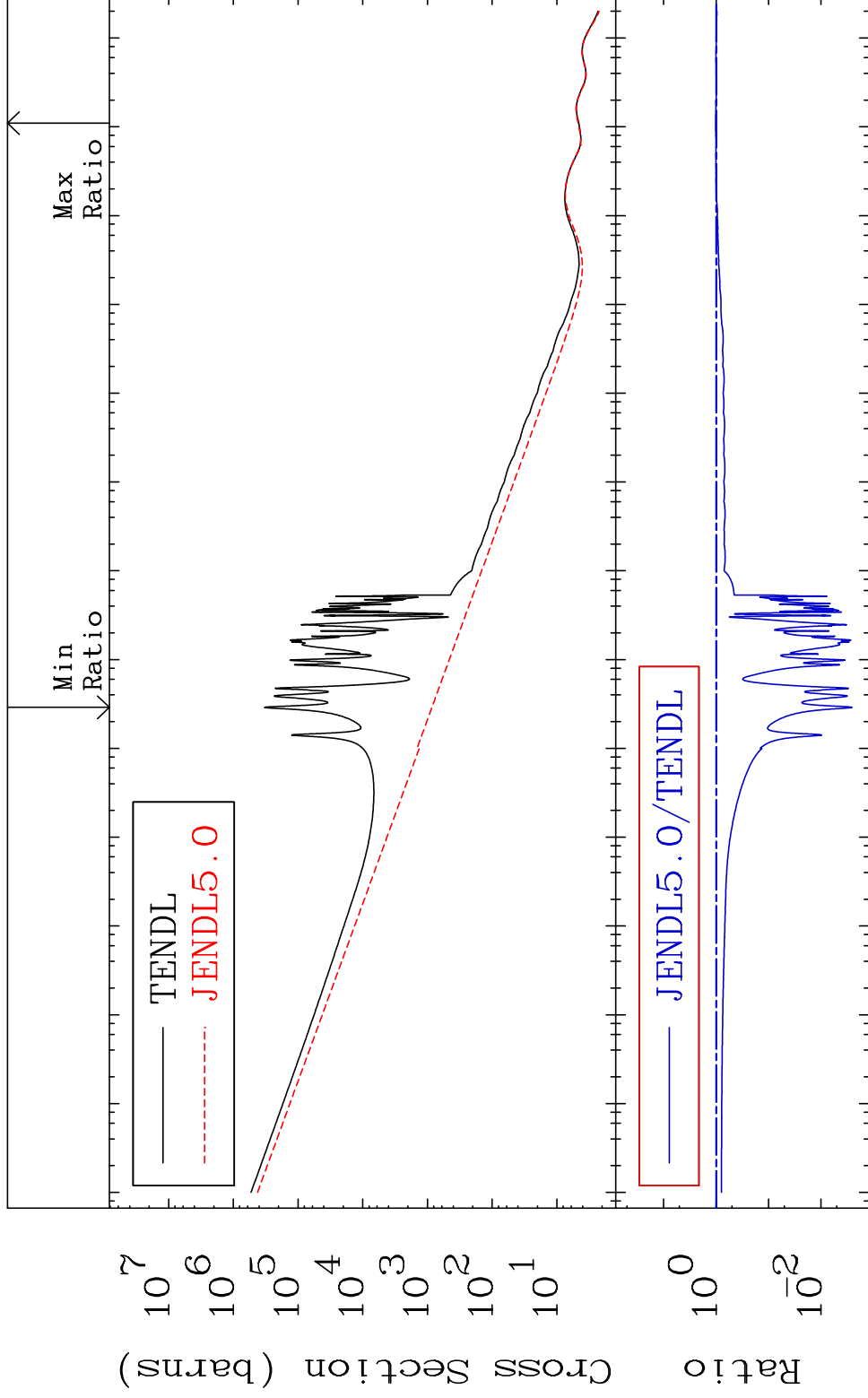
MAT 6146

Total

61-Pm-146

Cross Section

-99.75 To 1.949 %



1

Incident Energy (eV)

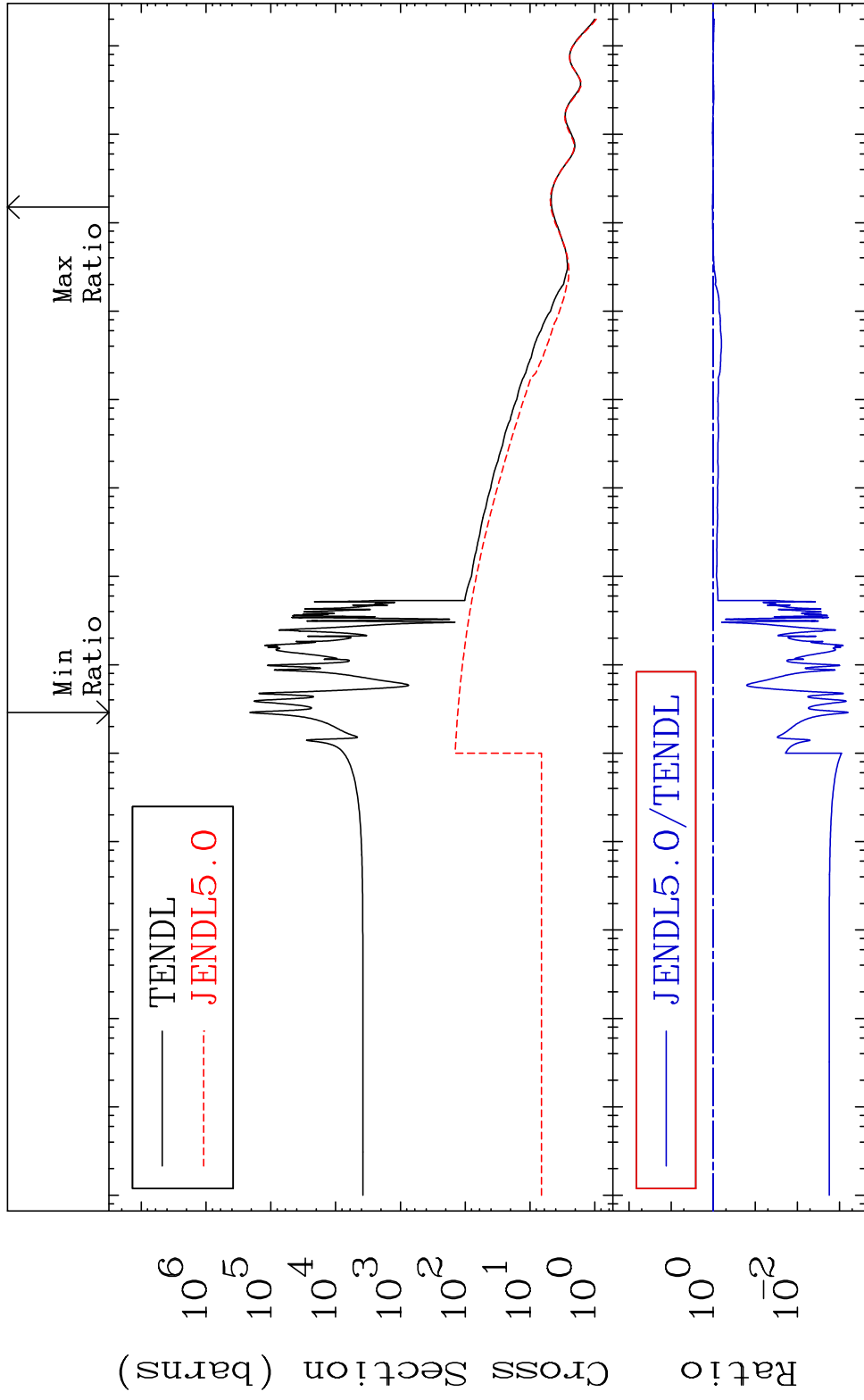
61-Pm-146

MAT 6146

Elastic

61-Pm-146

Cross Section -99.94 To 4.667 %

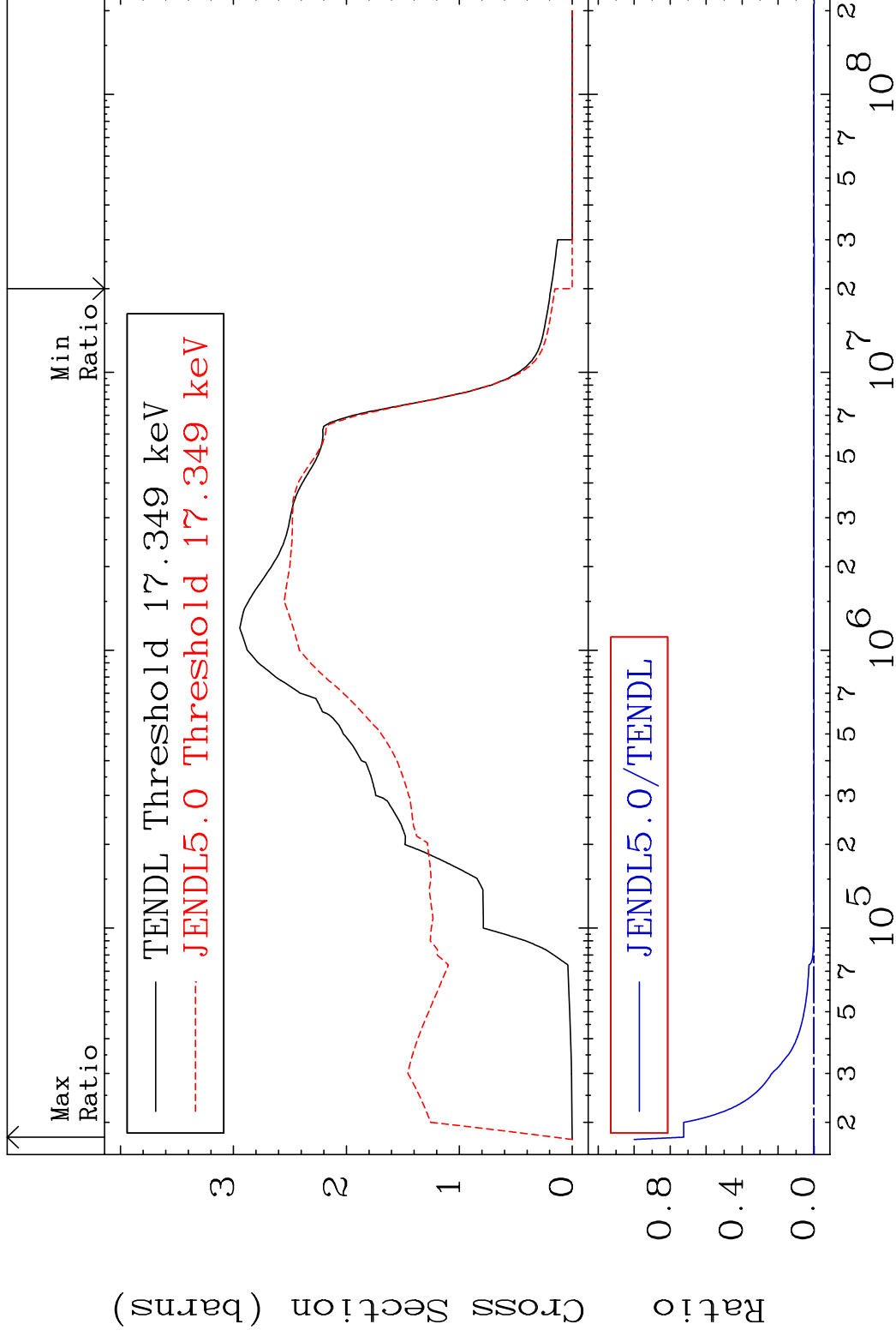


MAT 6146

Inelastic

61-Pm-146

Cross Section -100.0 To 9999. %



3

Incident Energy (eV)

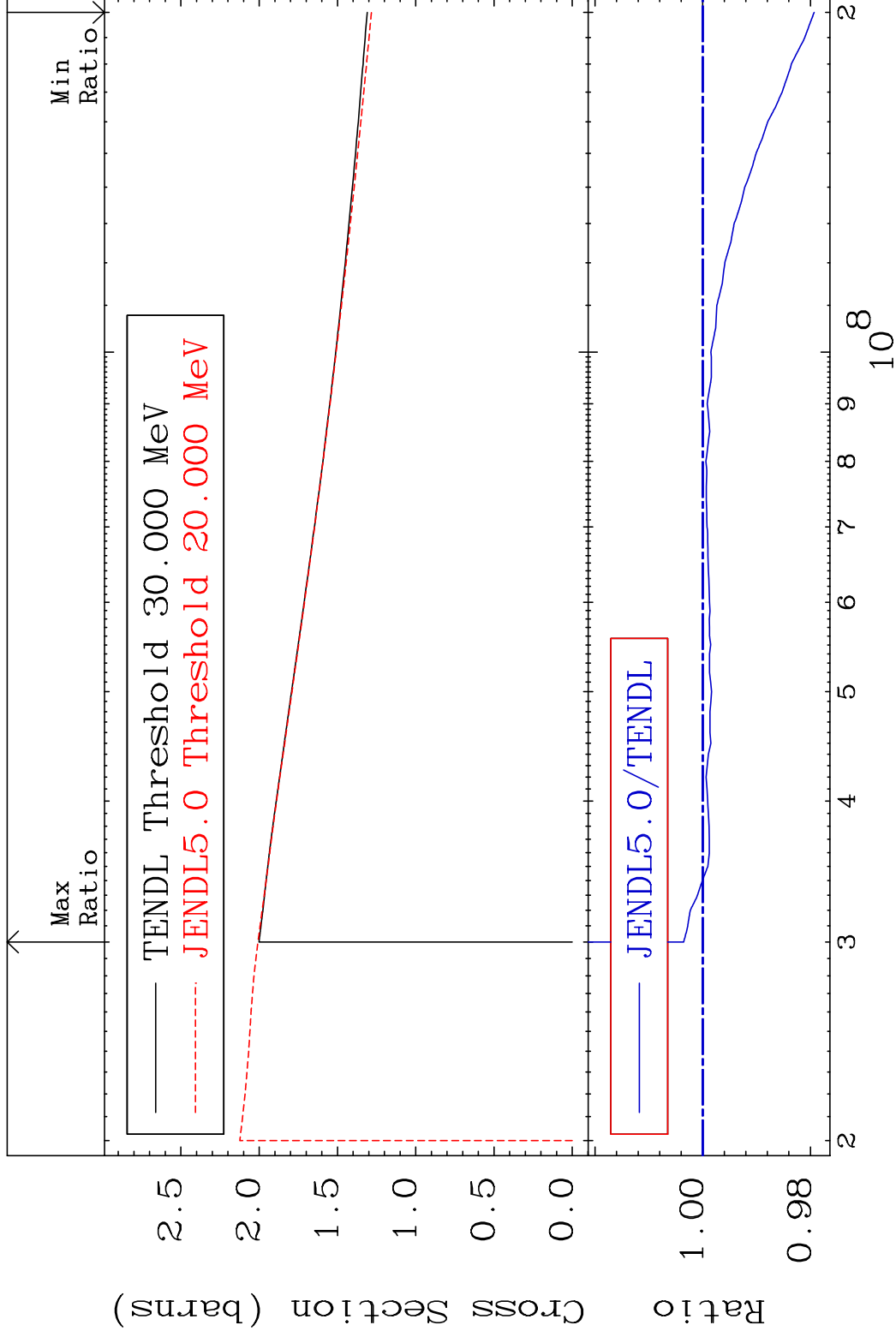
61-Pm-146

MAT 6146

(n, remainder)

61-Pm-146

Cross Section -2.068 To 0.354 %



4

Incident Energy (eV)

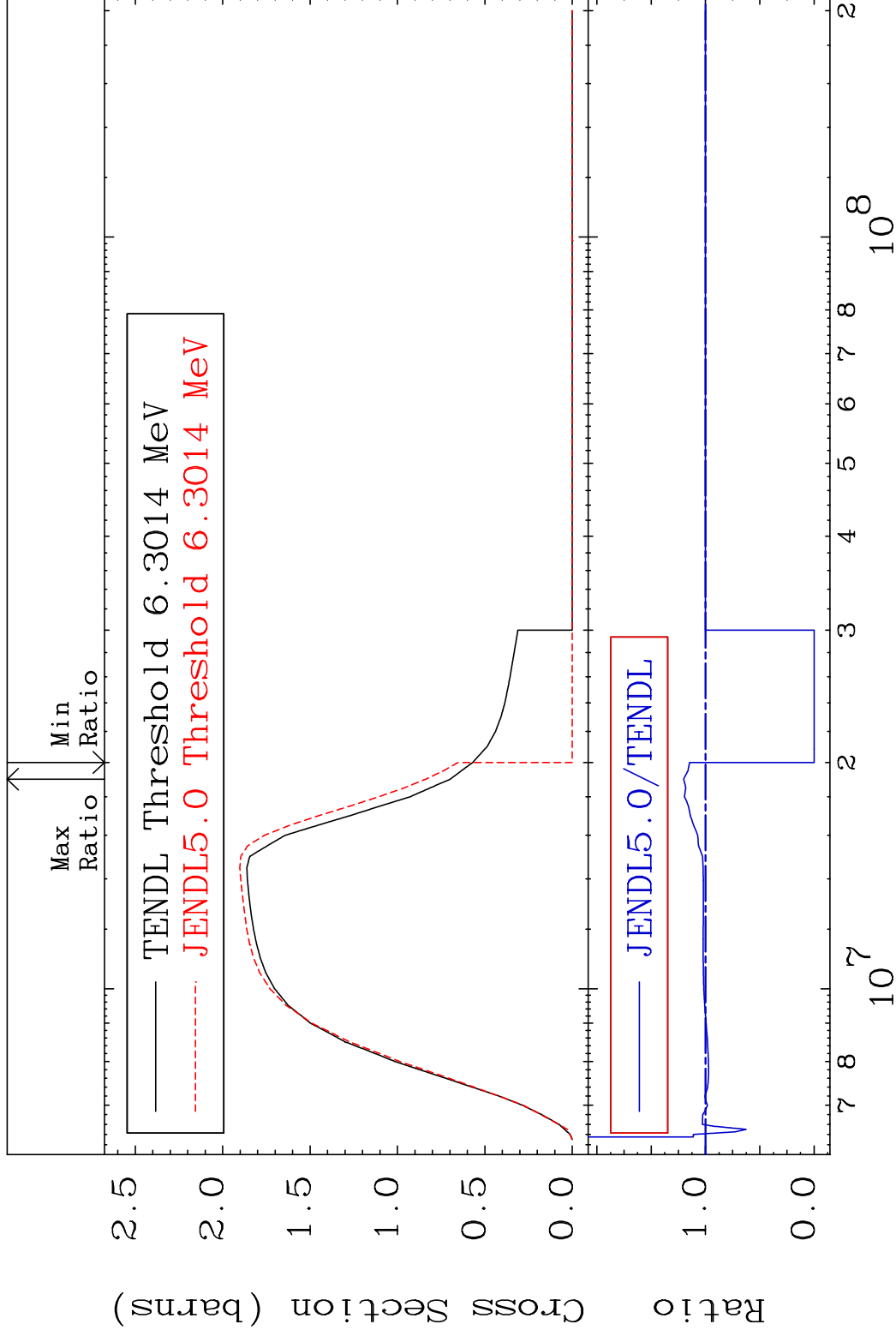
61-Pm-146

MAT 6146

(n,2n)

61-Pm-146

Cross Section -100.0 To 20.12 %



5

Incident Energy (eV)

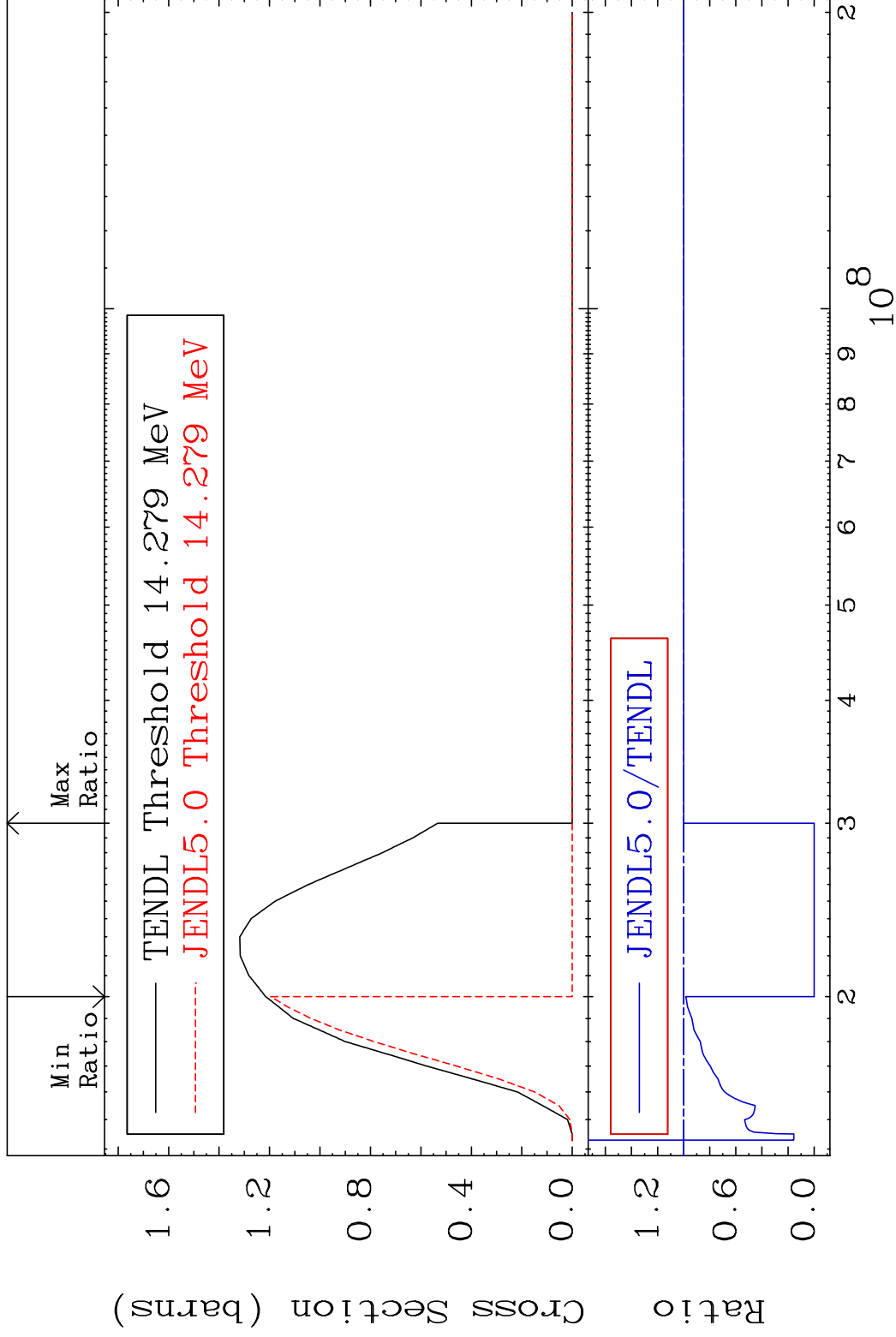
61-Pm-146

MAT 6146

(n,3n)

61-Pm-146

Cross Section -100.0 To 0.000 %

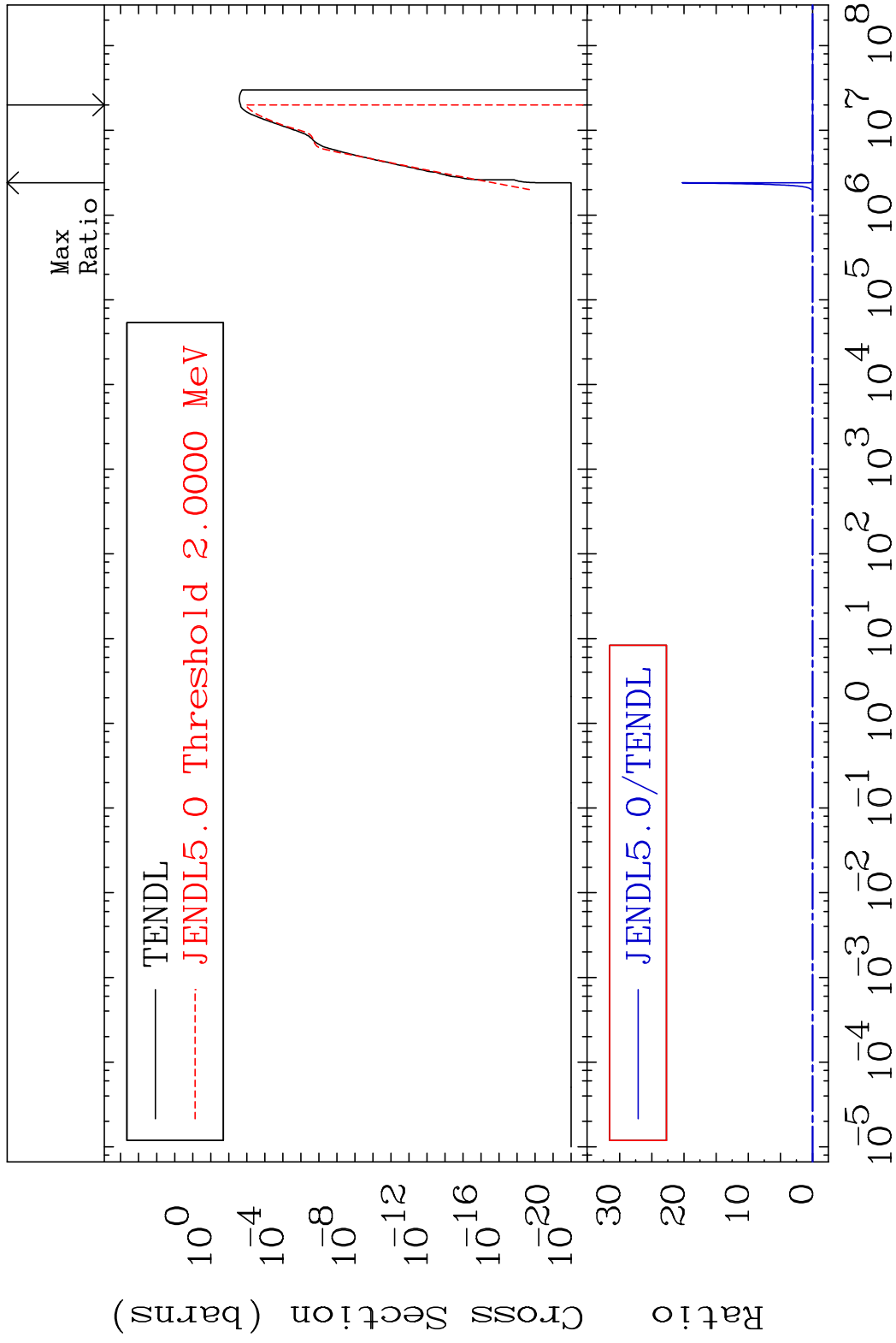


MAT 6146

(n, n') α

61-Pm-146

Cross Section -100.0 To 9999. %

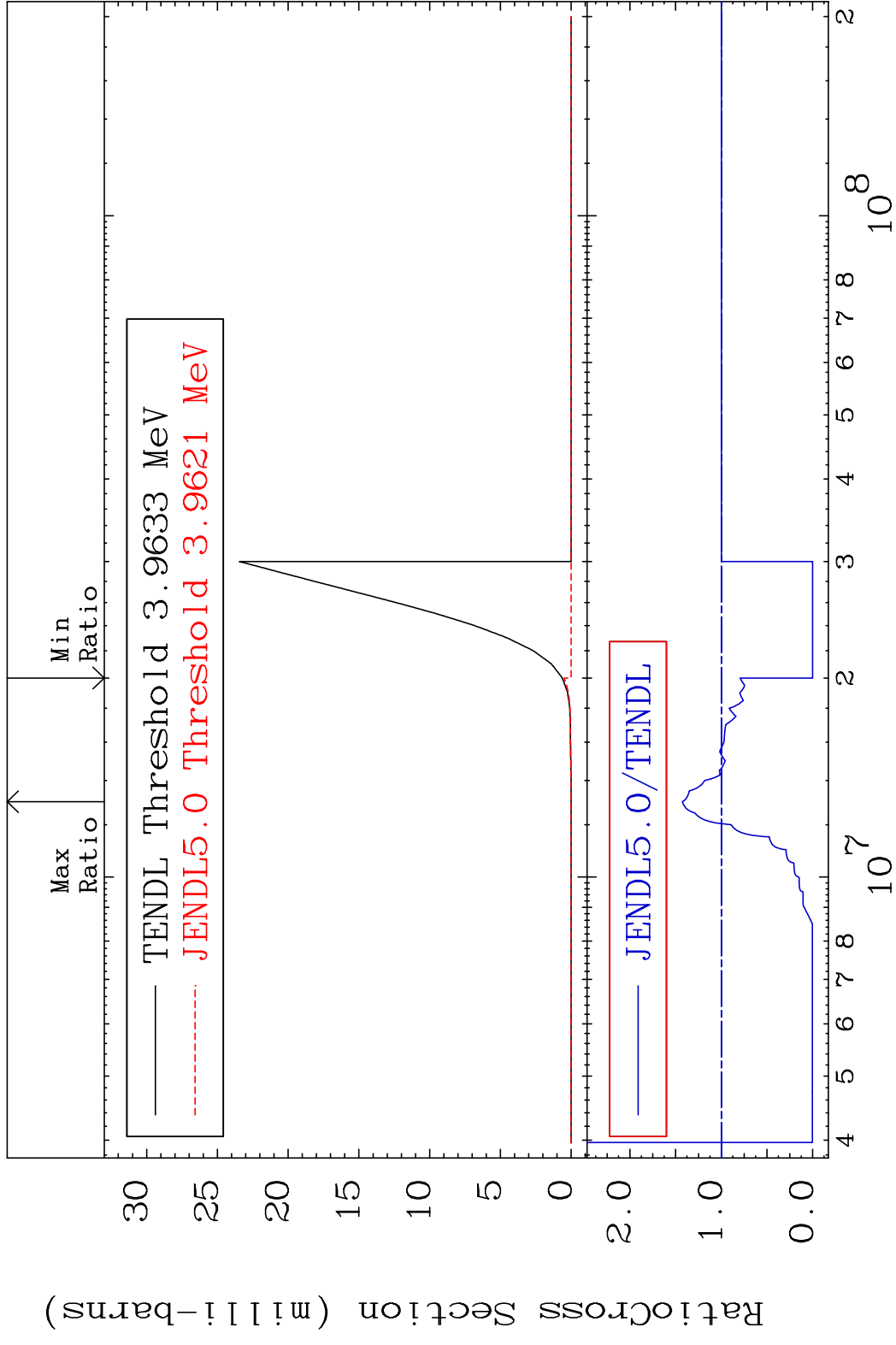


7

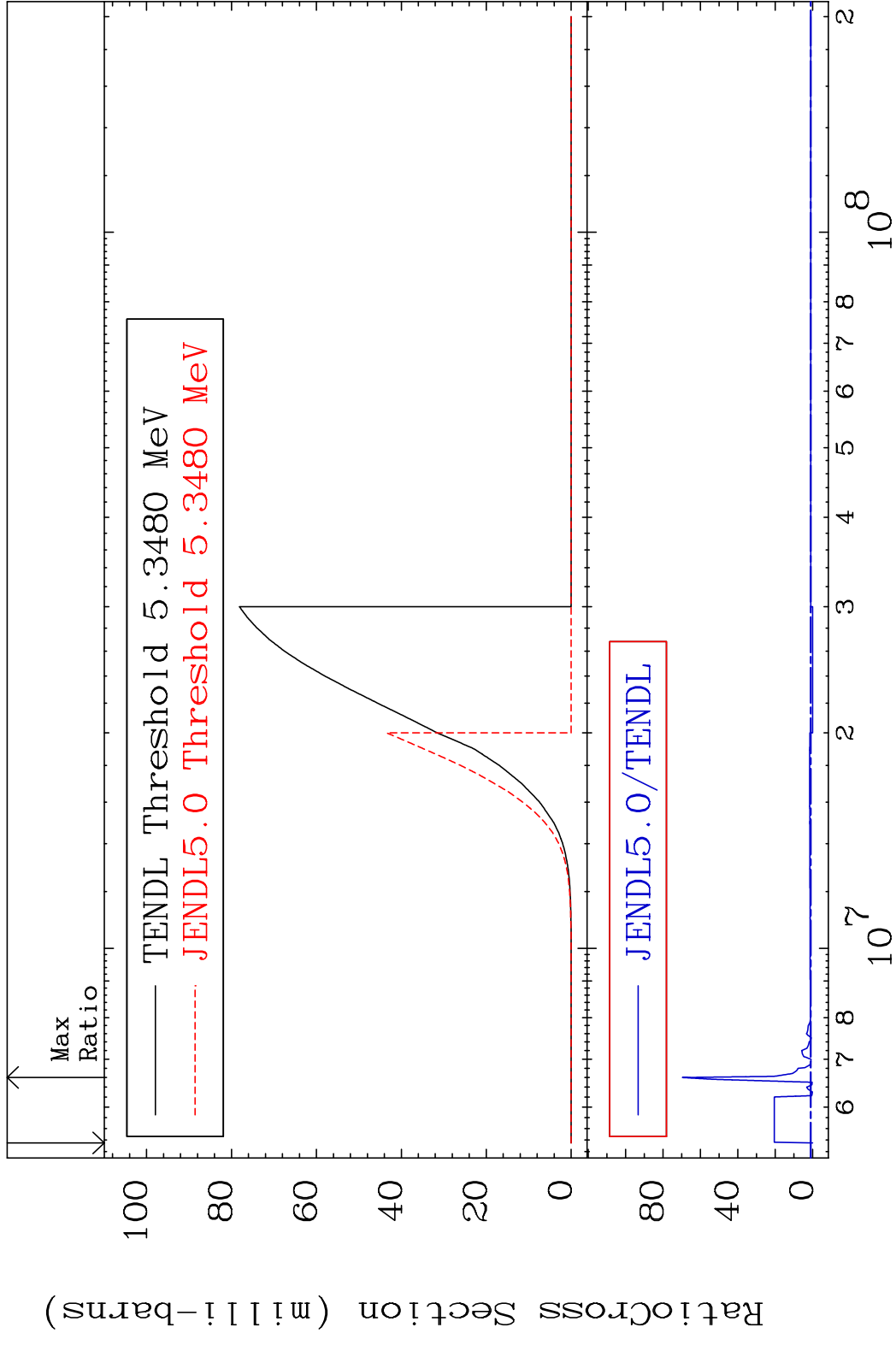
Incident Energy (eV)

61-Pm-146

MAT 6146 (n,2n) α 61-Pm-146
 Cross Section -100.0 To 42.66 %



MAT 6146 (n, n') p 61-Pm-146
 Cross Section -100.0 To 6862. %

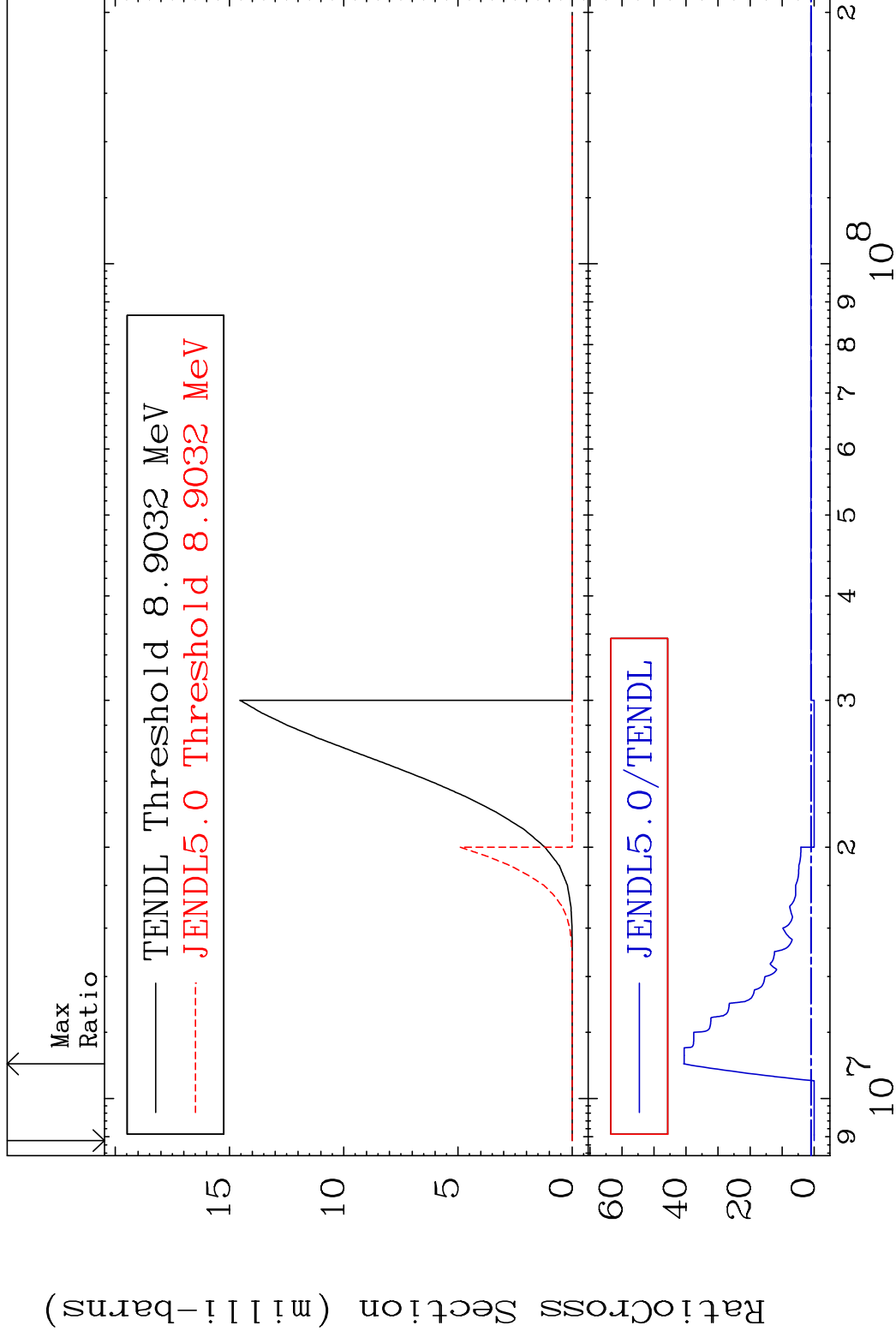


MAT 6146

(n, n') d

61-Pm-146

Cross Section -100.0 To 3974. %

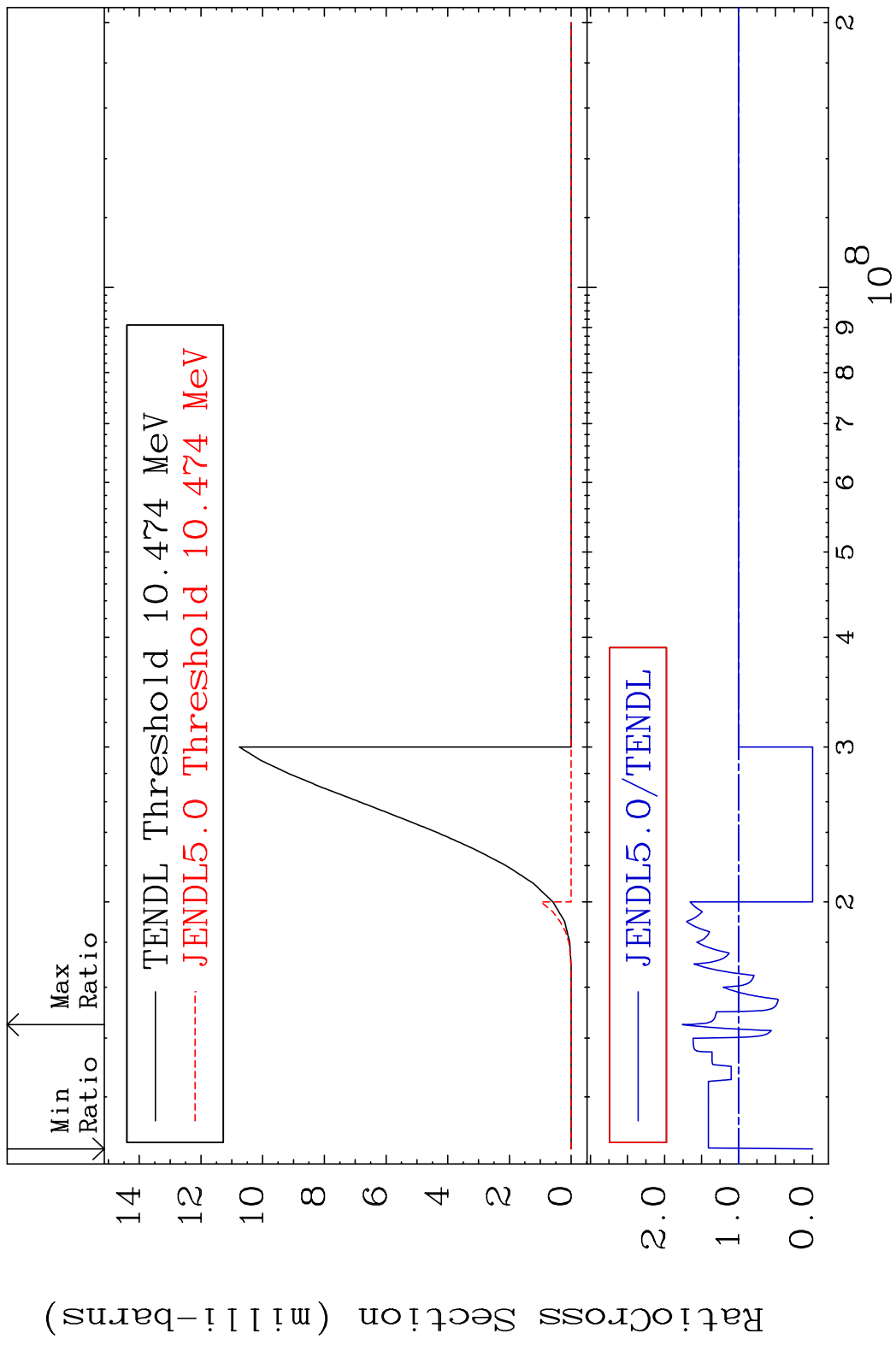


10

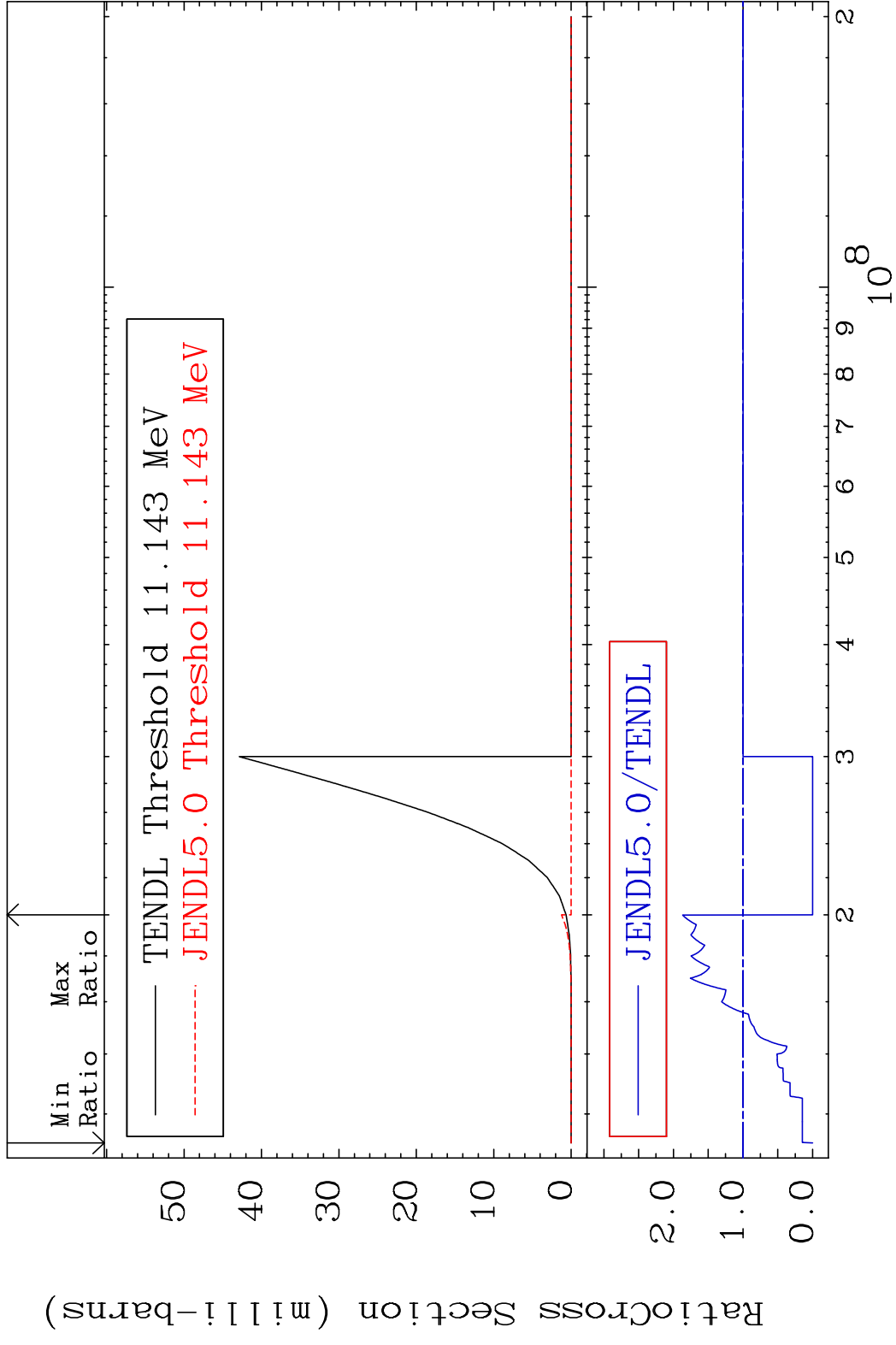
Incident Energy (eV)

61-Pm-146

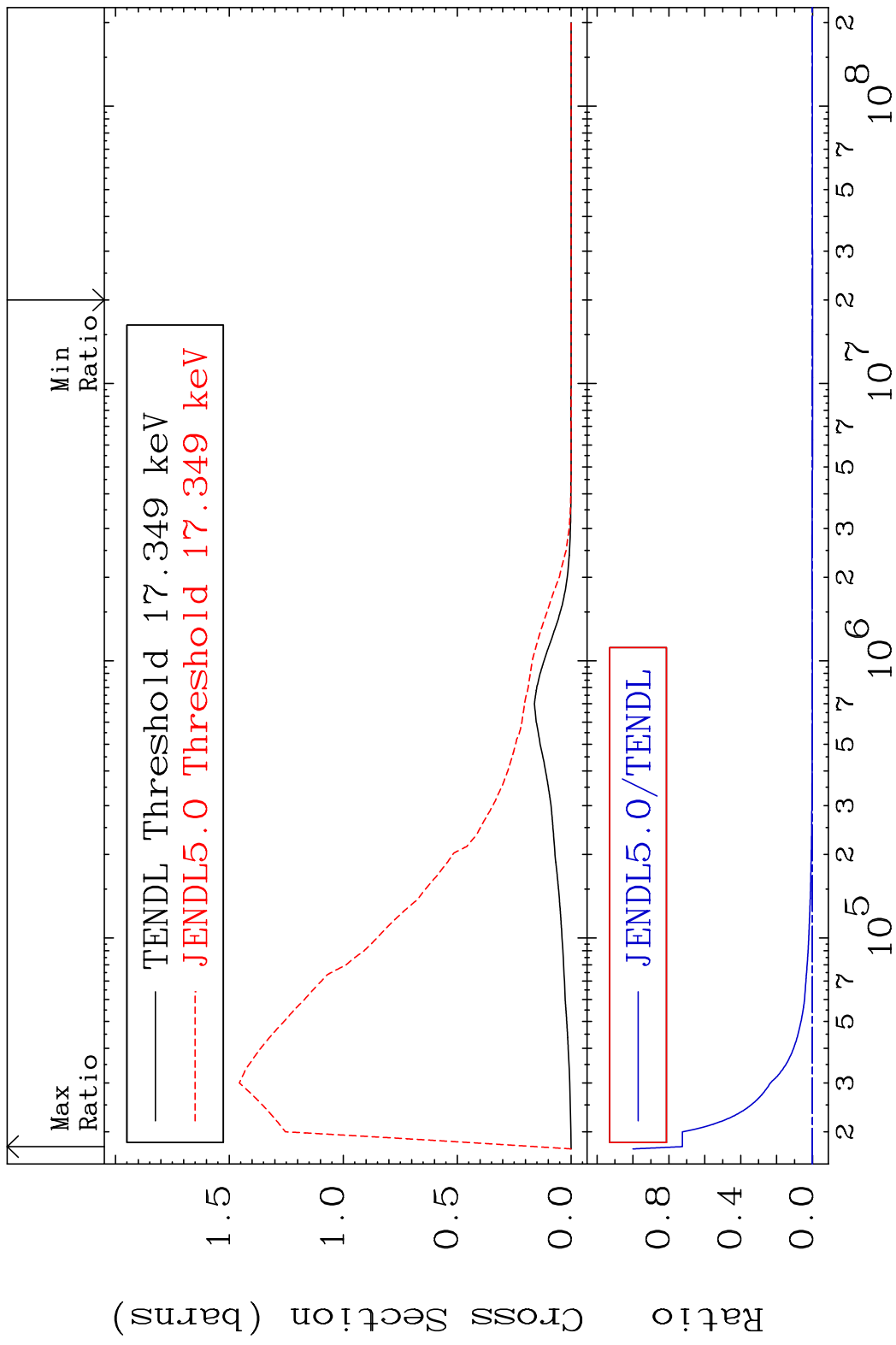
MAT 6146 (n, n') t 61-Pm-146
 Cross Section -100.0 To 75.89 %



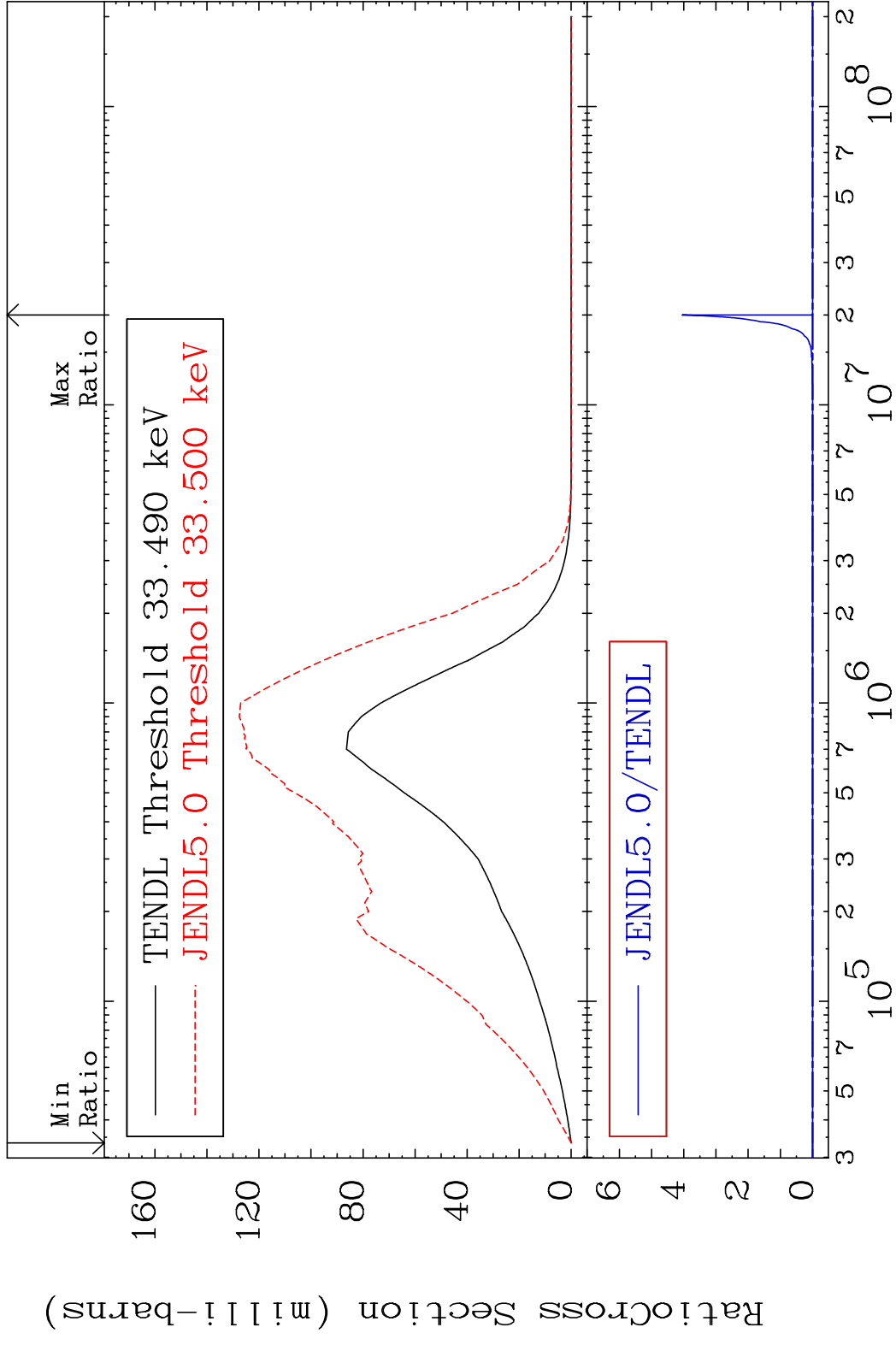
MAT 6146 (n,2n) p 61-Pm-146
 Cross Section -100.0 To 87.15 %



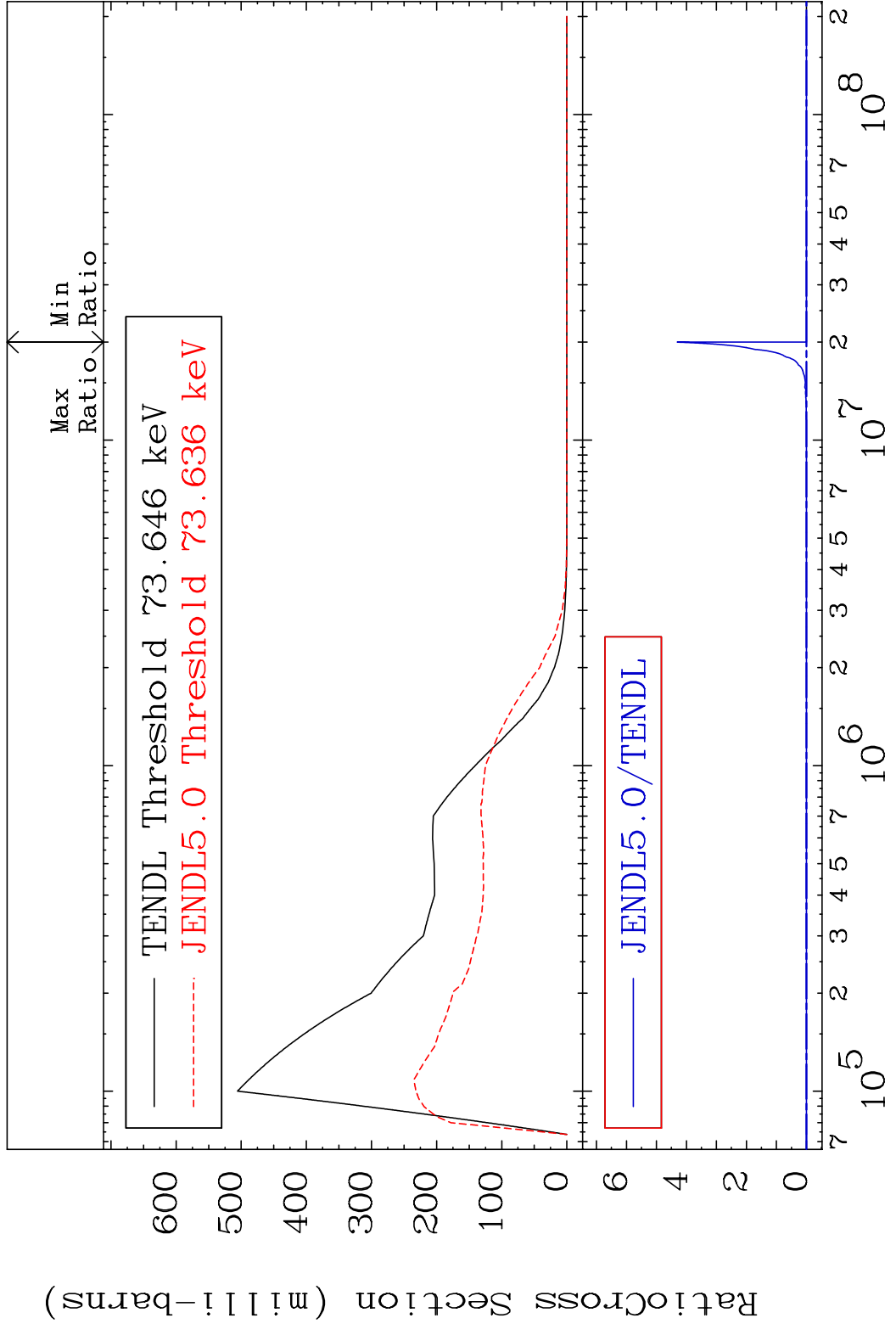
MAT 6146 MT= 51 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



MAT 6146 MT= 52 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

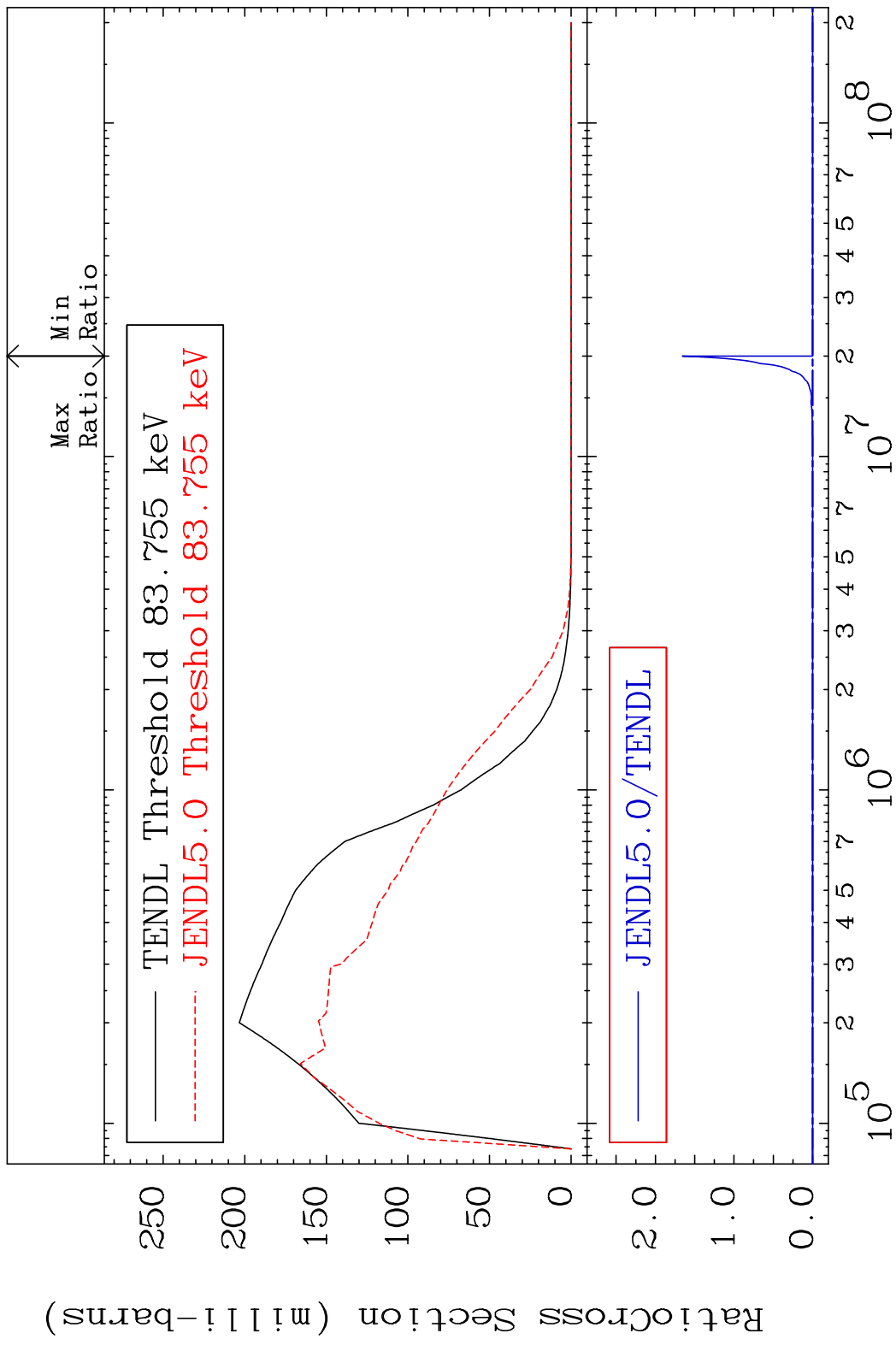


MAT 6146 MT= 53 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



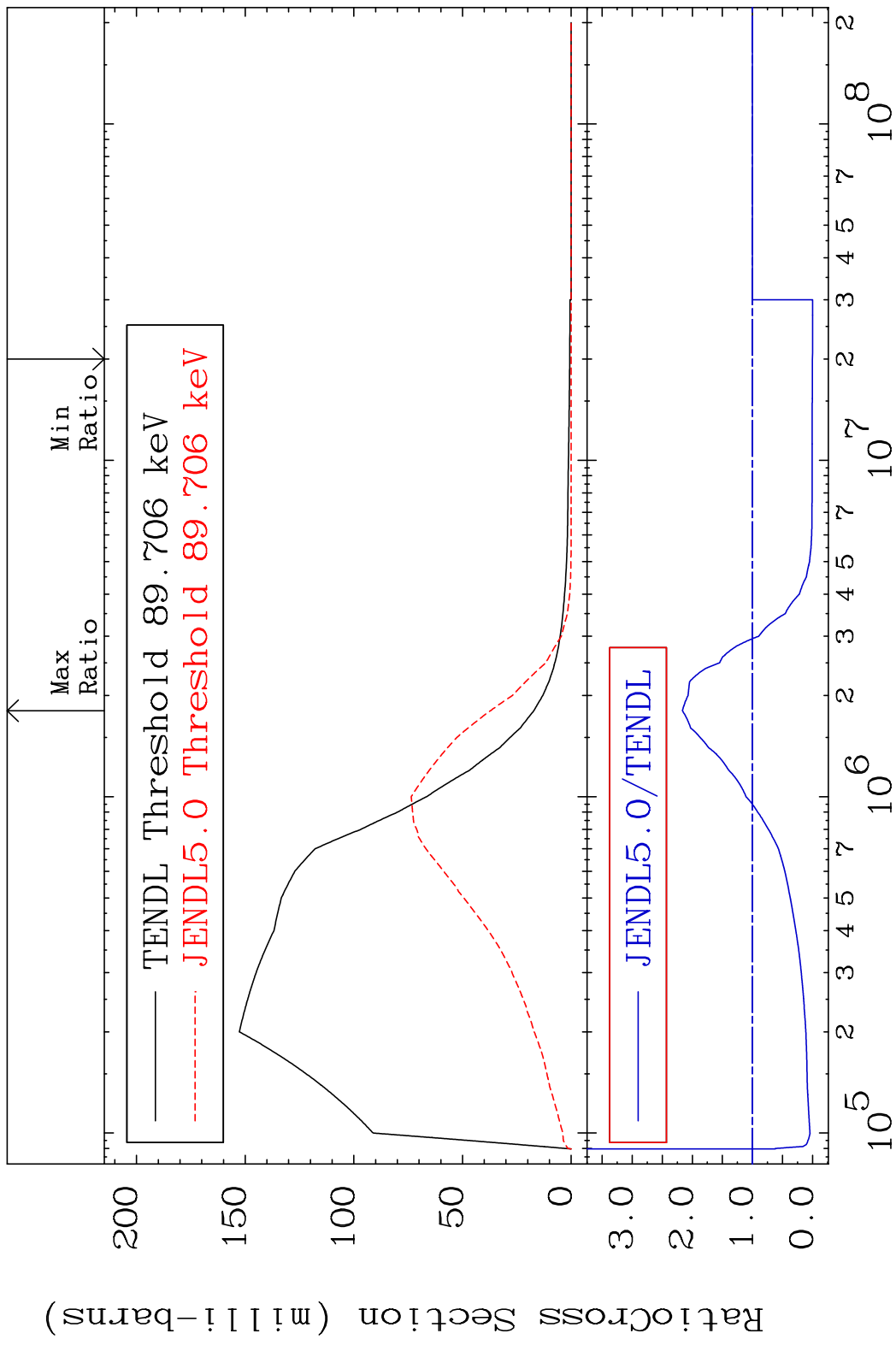
15 Incident Energy (eV) 61-Pm-146

MAT 6146 MT= 54 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



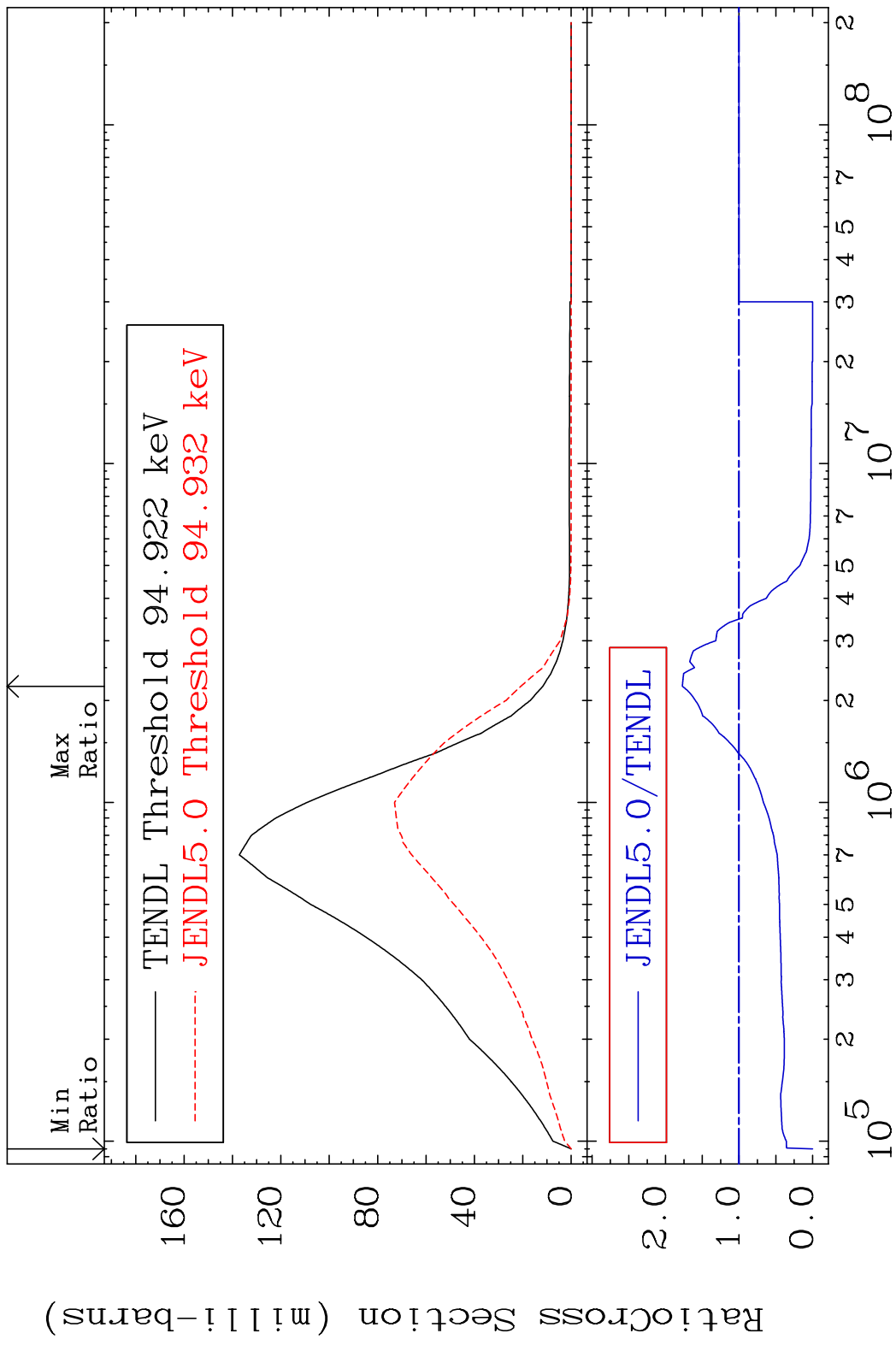
16 Incident Energy (eV) 61-Pm-146

MAT 6146 MT= 55 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 116.6 %



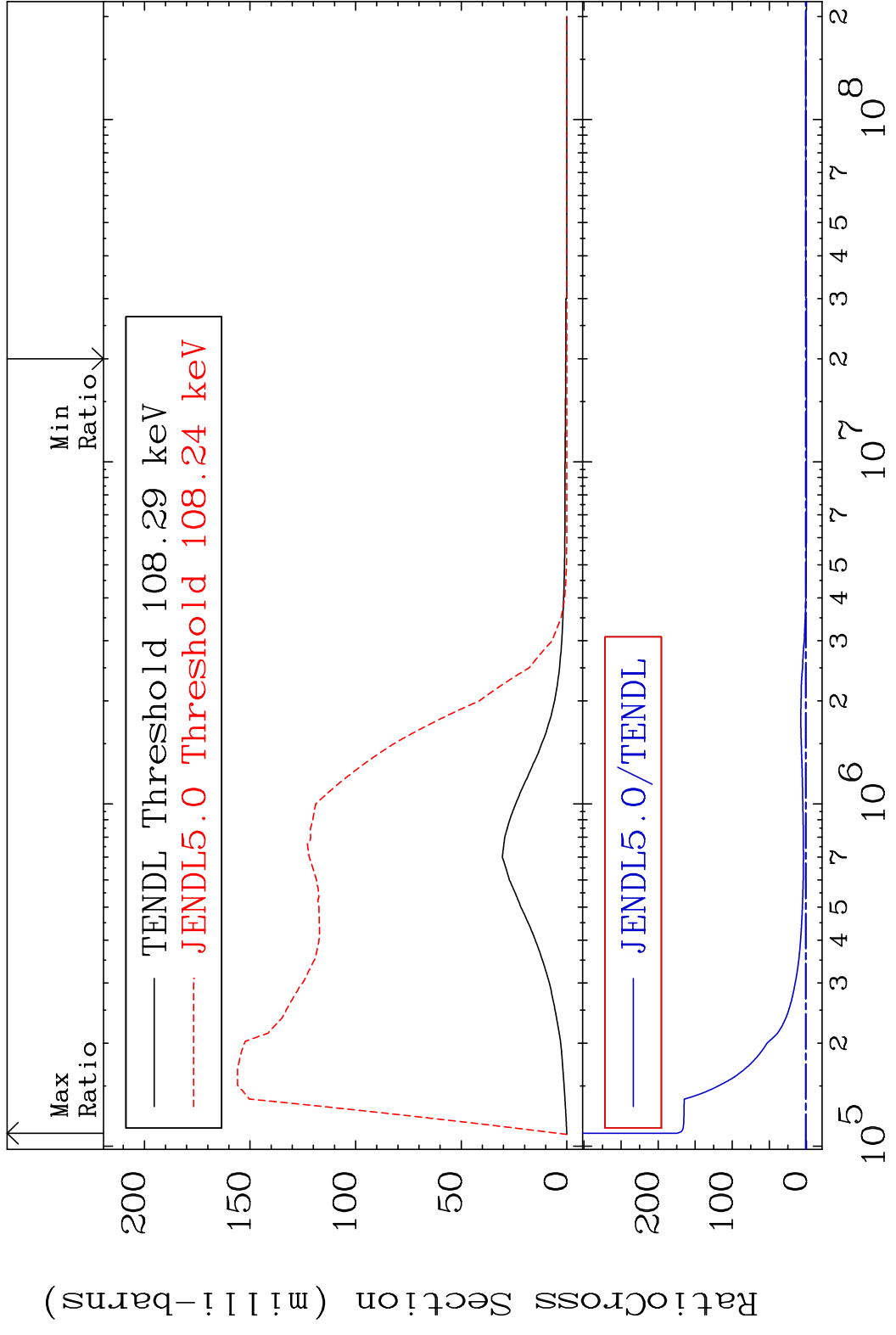
17 Incident Energy (eV) 61-Pm-146

MAT 6146 MT= 56 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 77.13 %



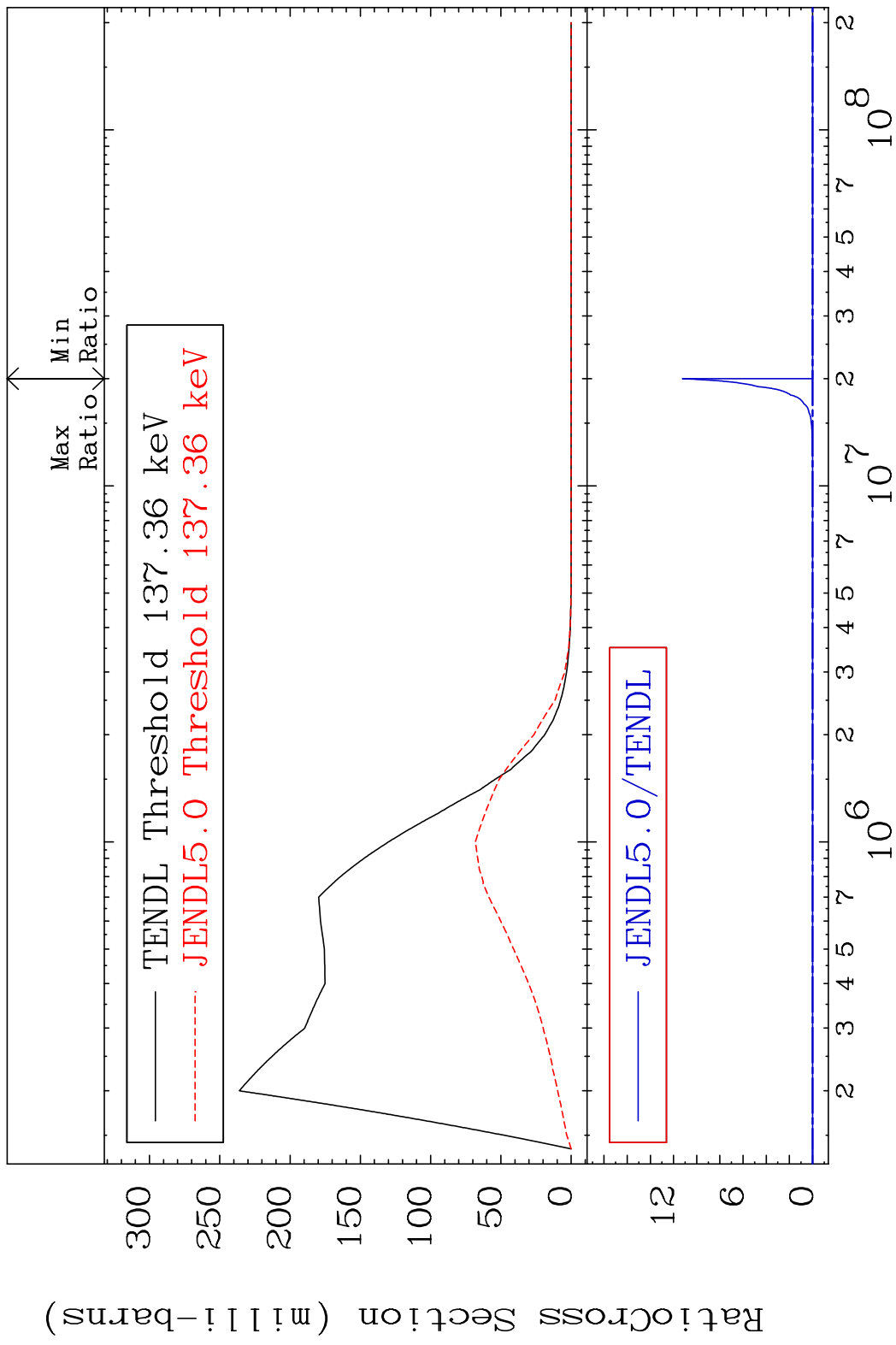
18 61-Pm-146

MAT 6146 MT= 57 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

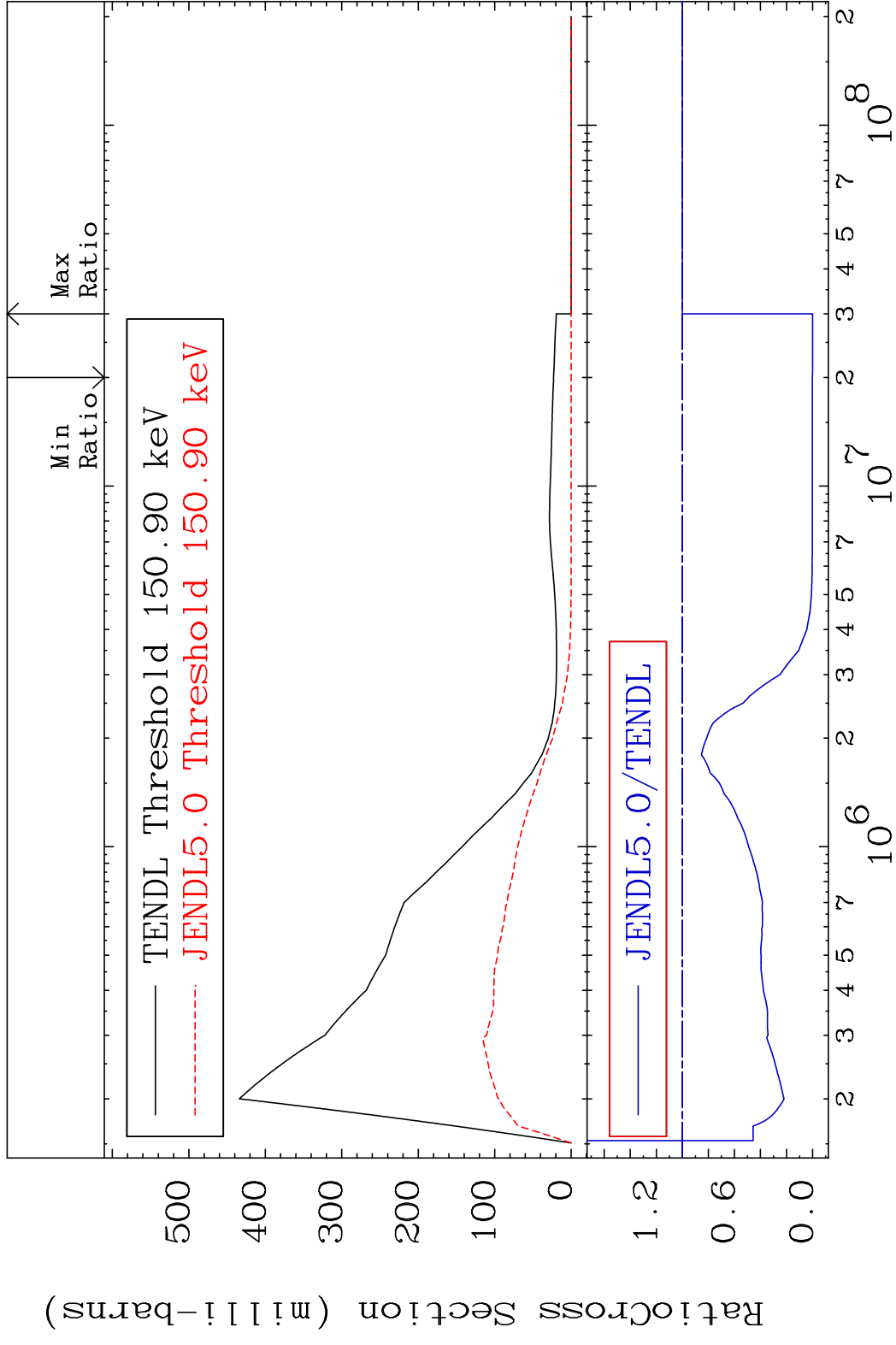


19 Incident Energy (eV) 61-Pm-146

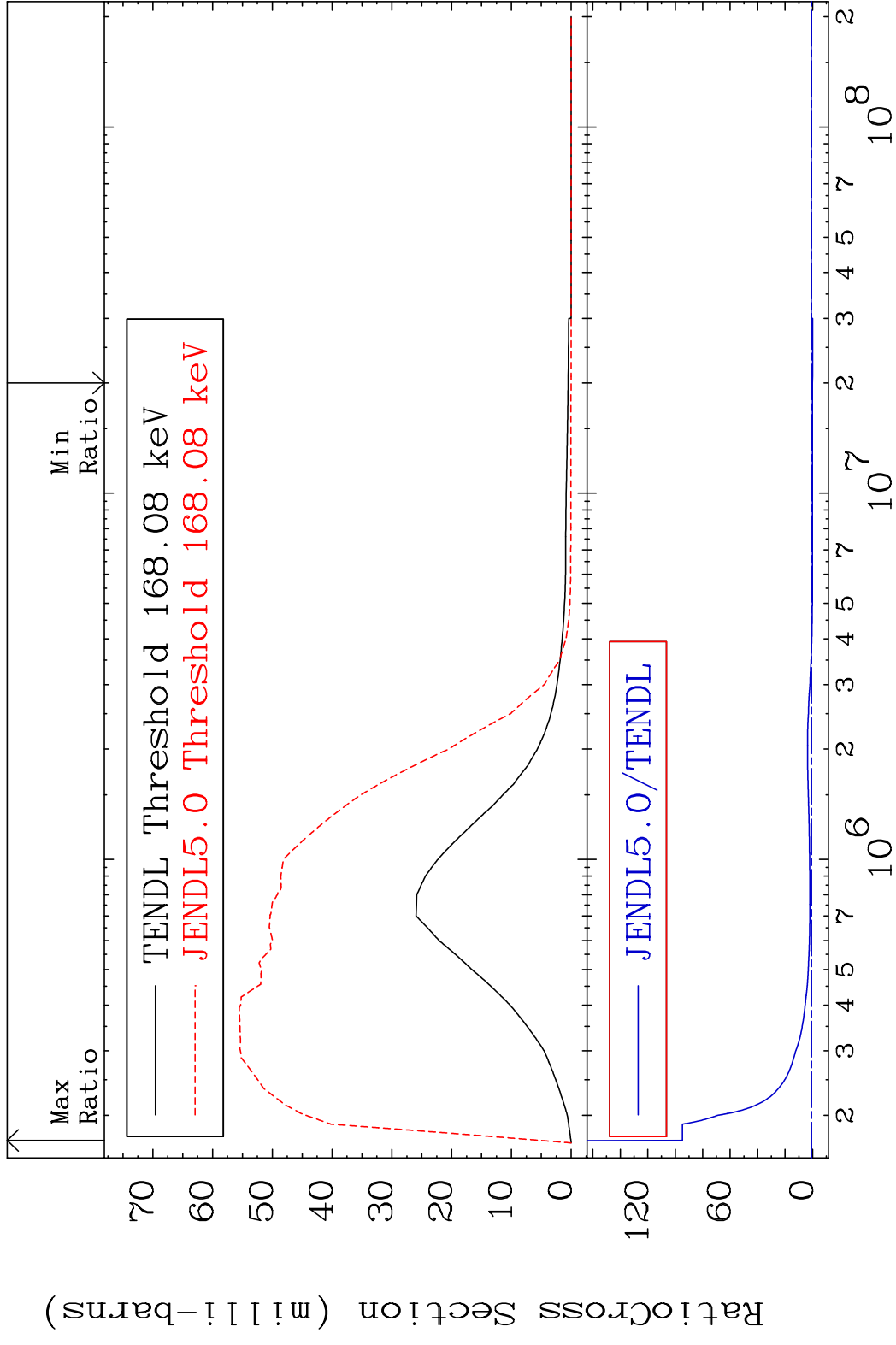
MAT 6146 MT= 58 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



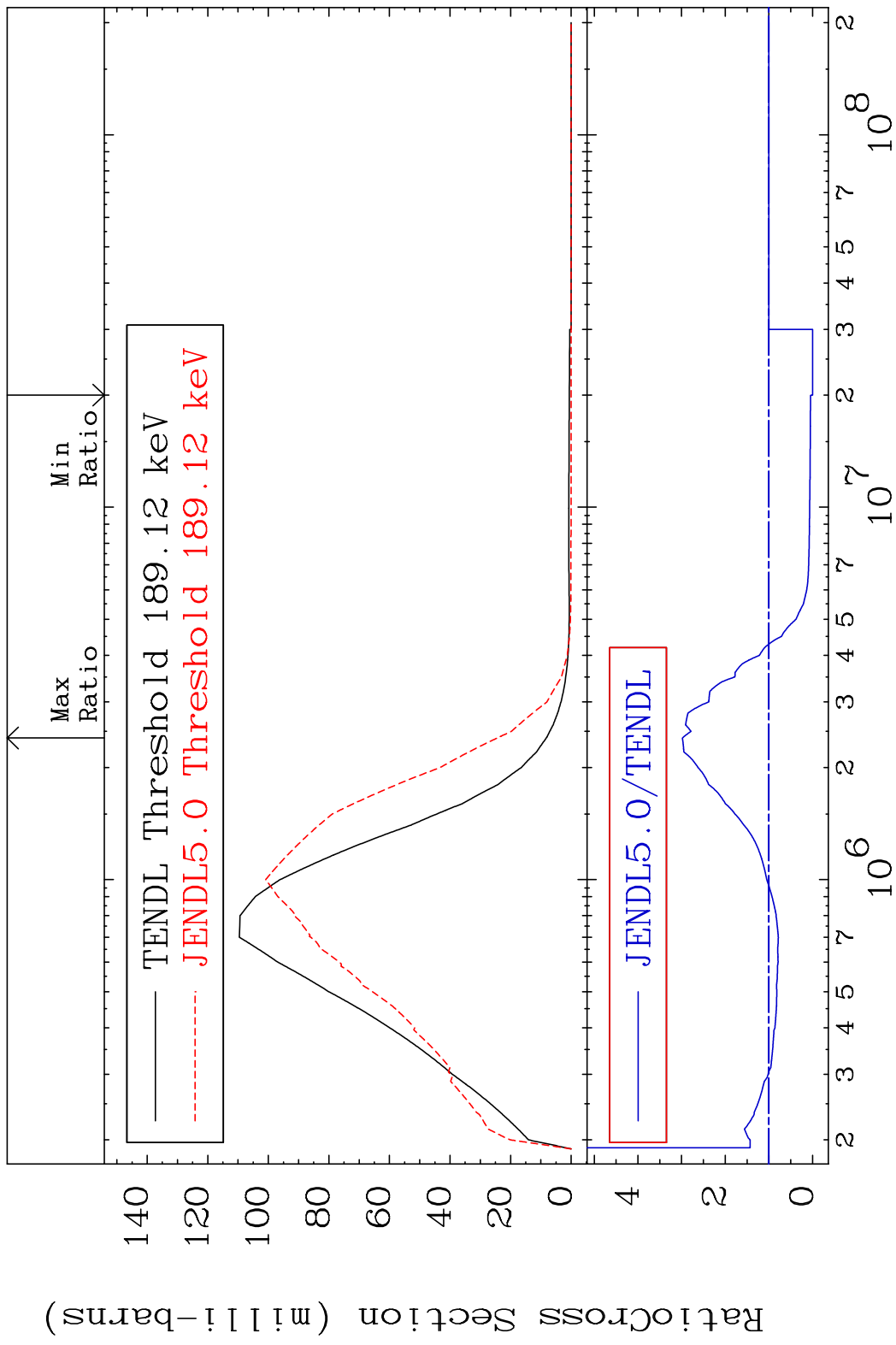
MAT 6146 MT= 59 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 0.000 %



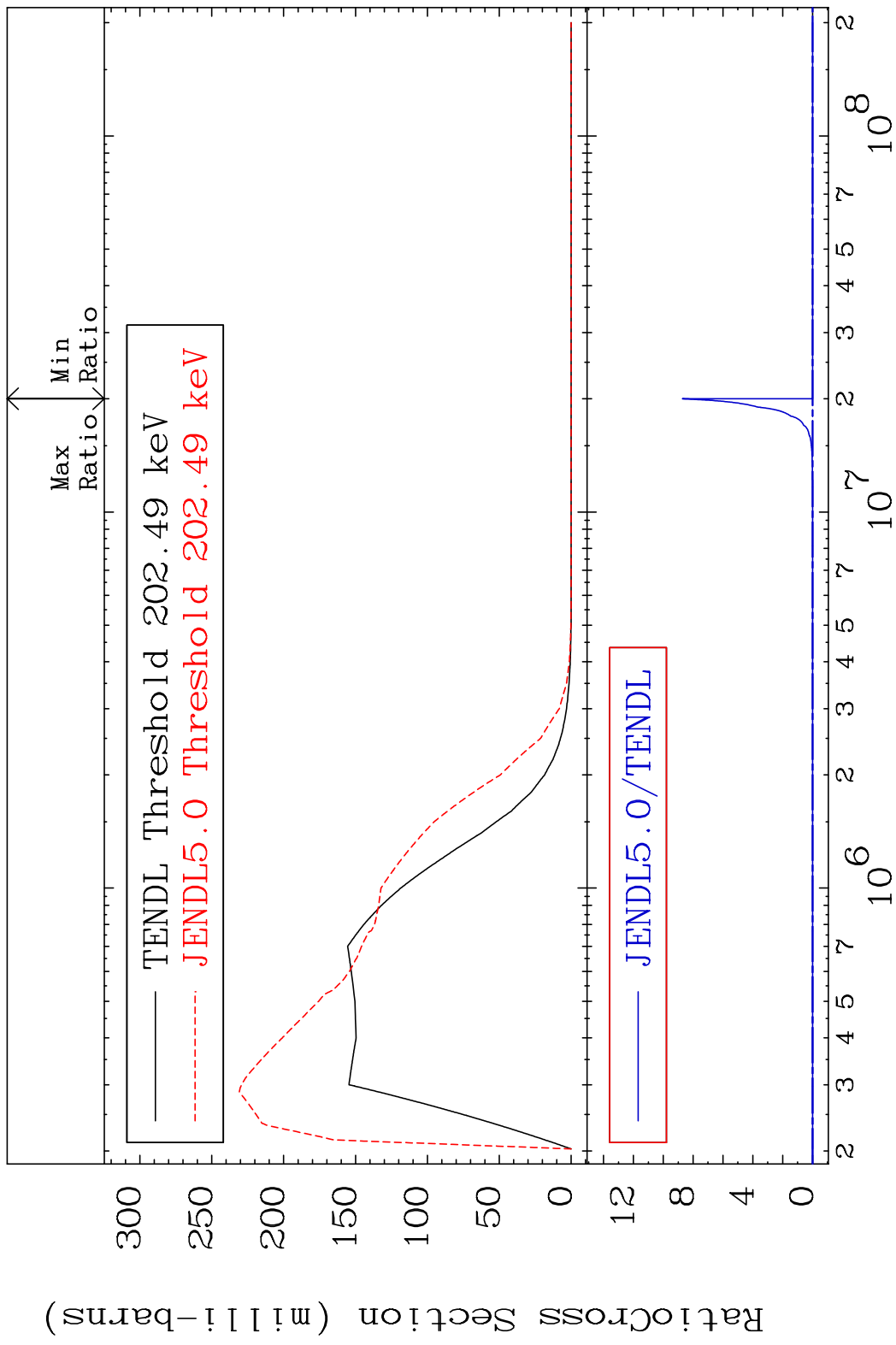
MAT 6146 MT= 60 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9381. %



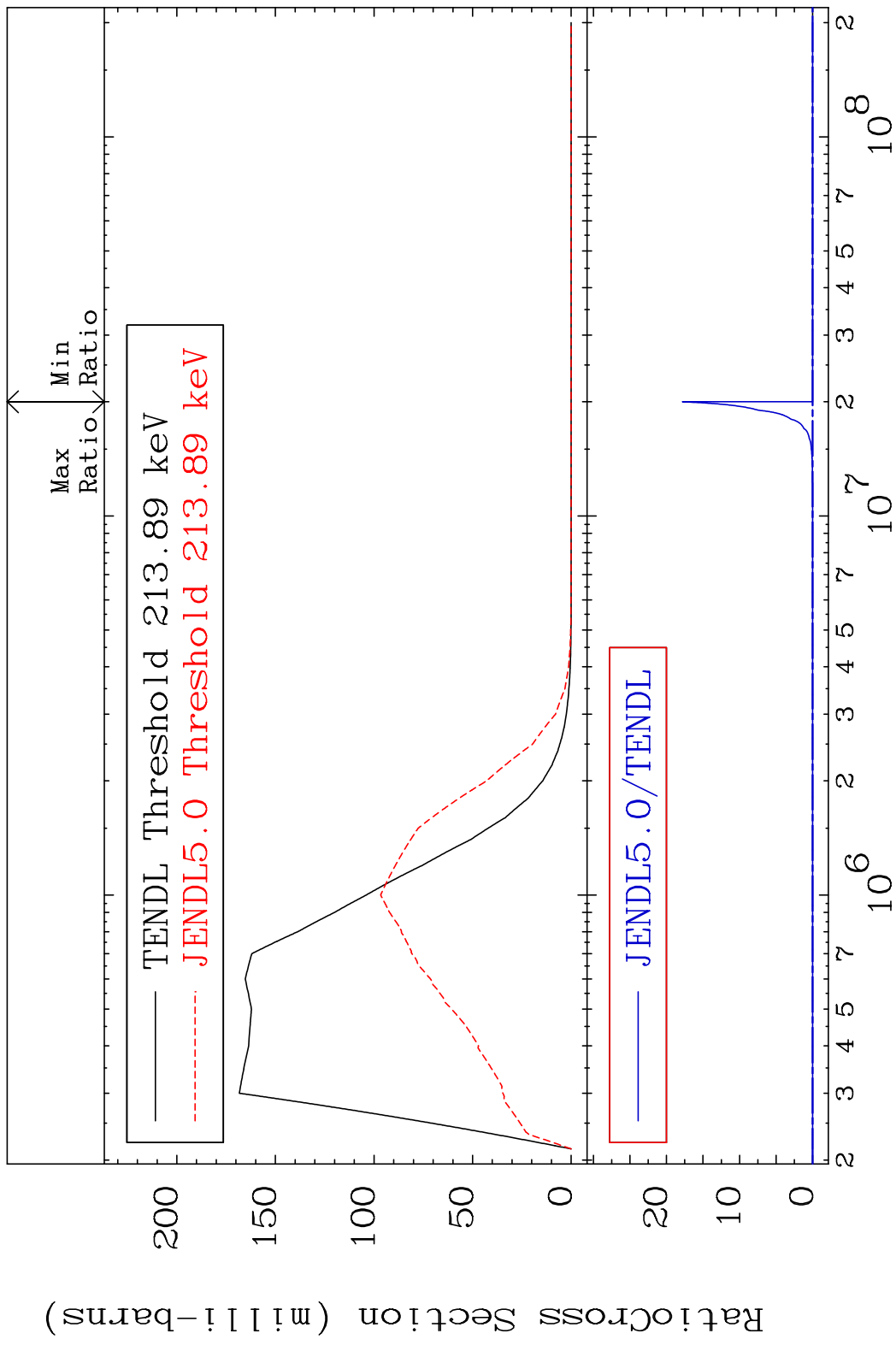
MAT 6146 MT= 61 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 198.2 %



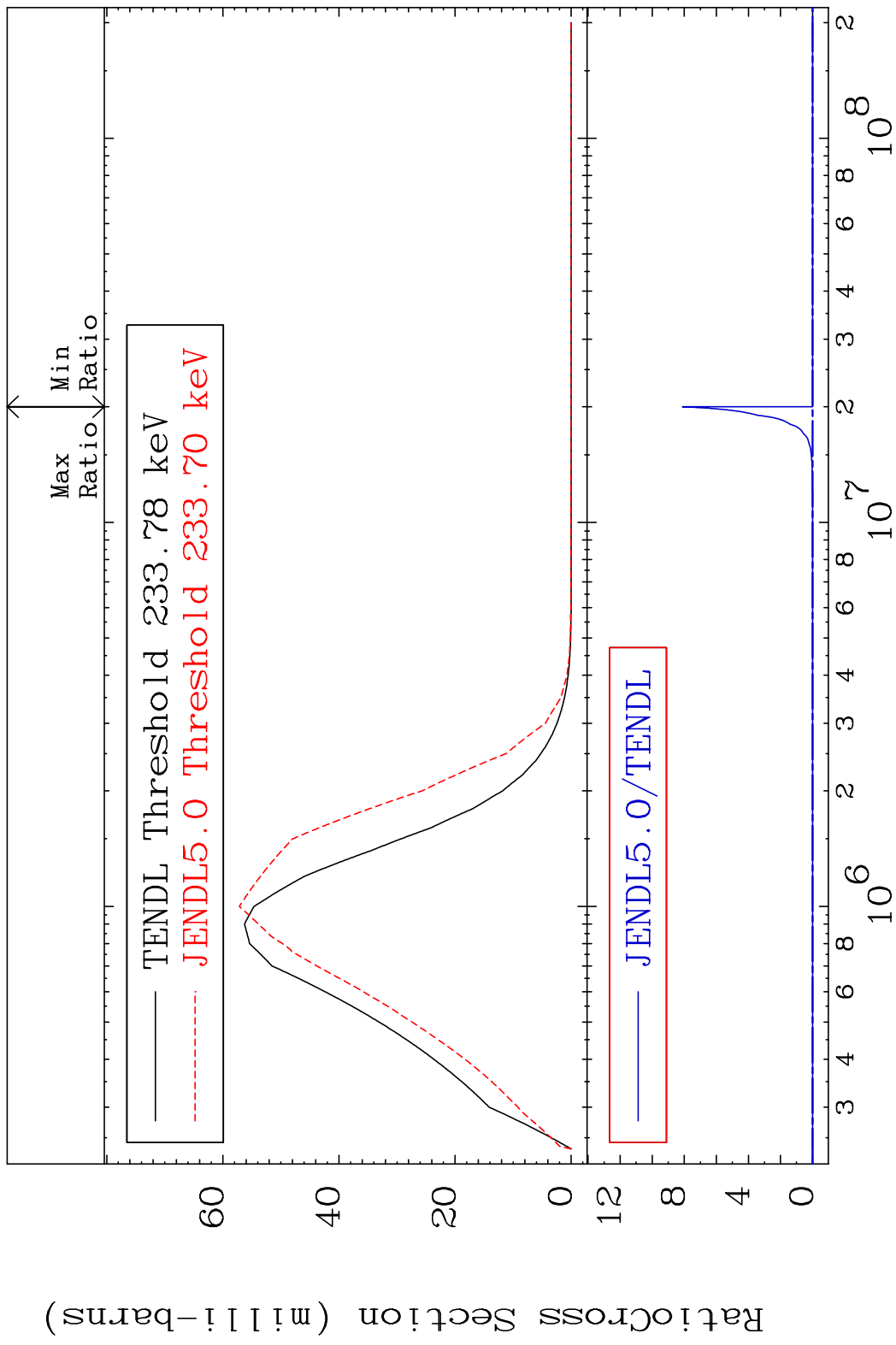
MAT 6146 MT= 62 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



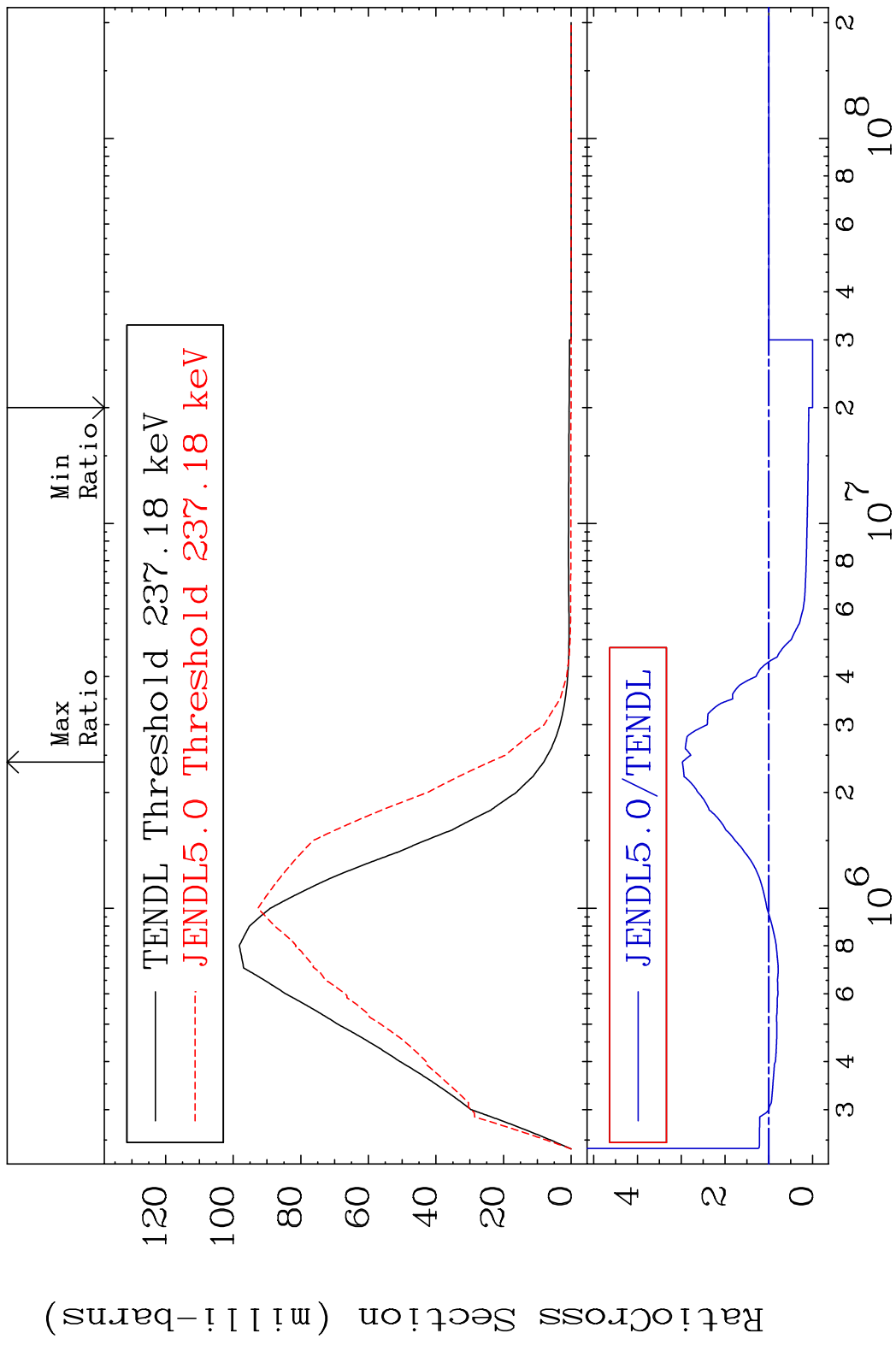
MAT 6146 MT= 63 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



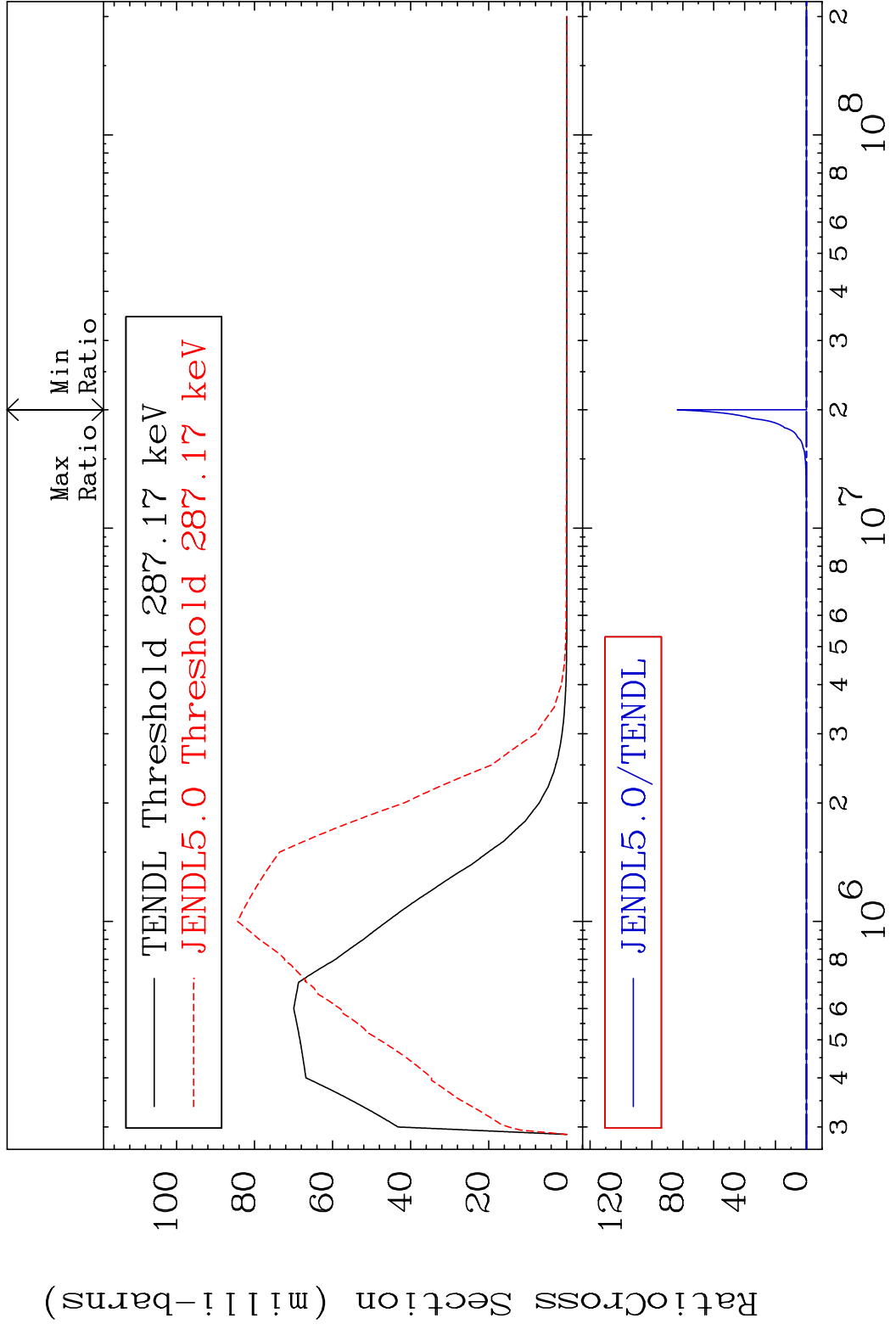
MAT 6146 MT= 64 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



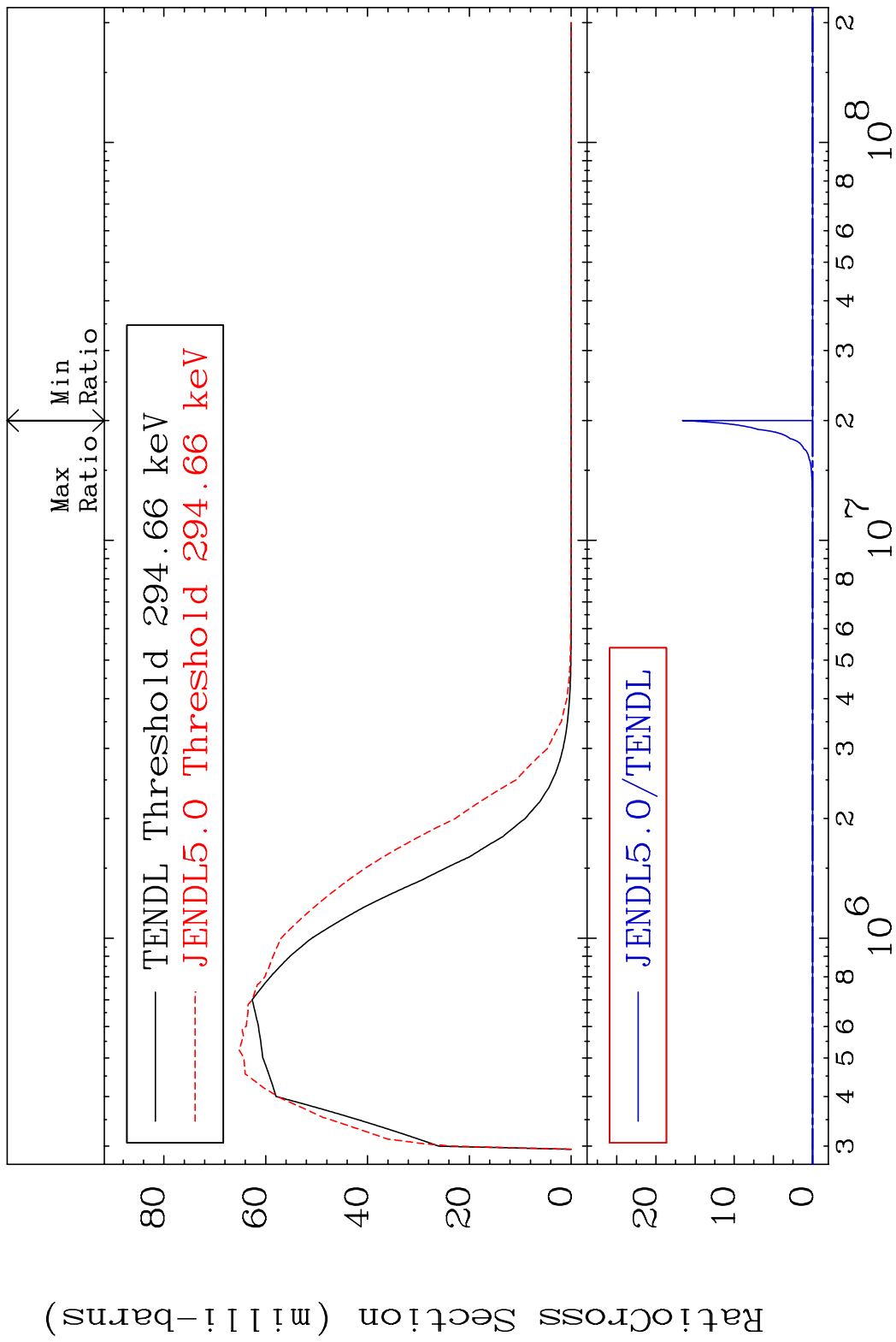
MAT 6146 MT= 65 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 197.3 %



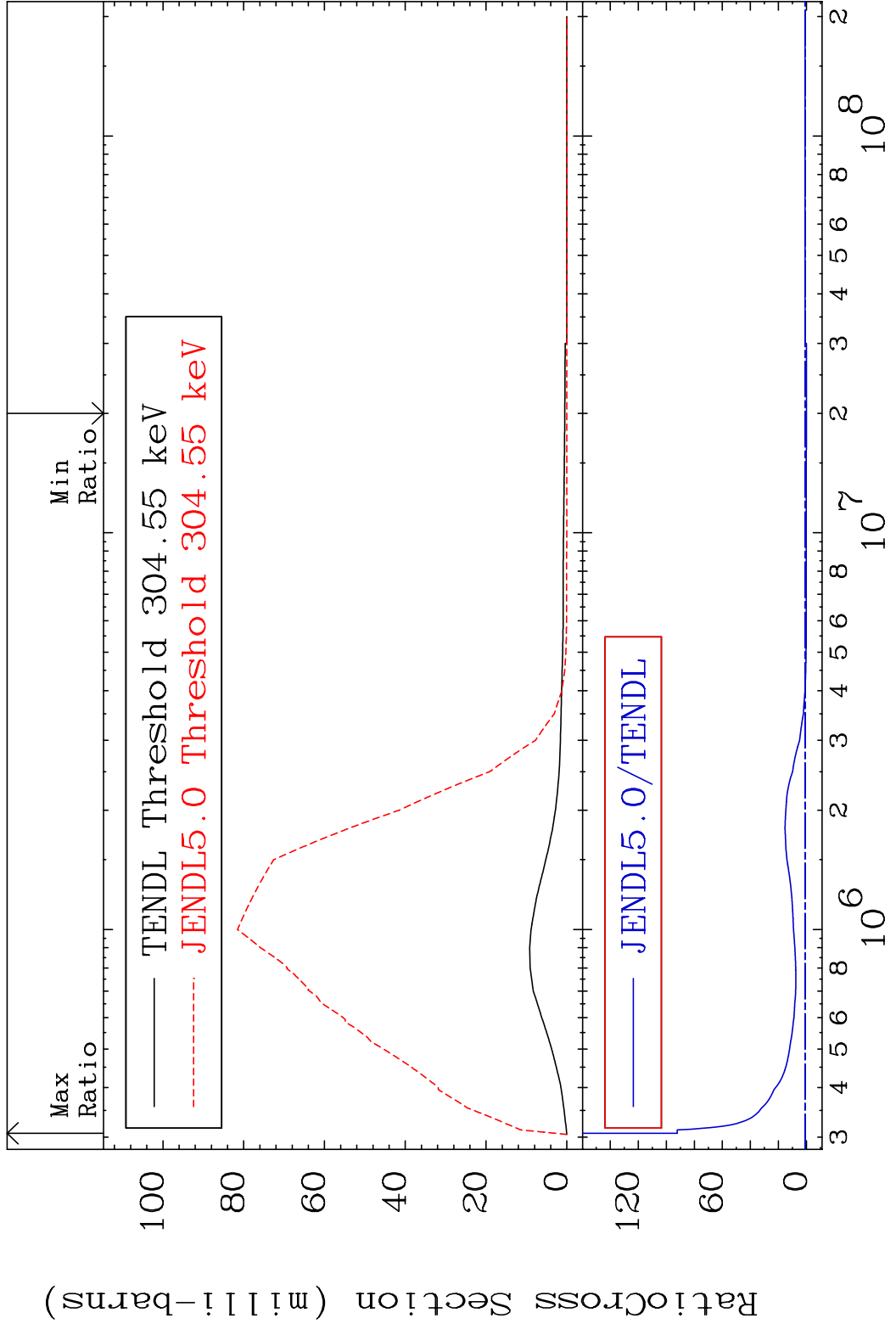
MAT 6146 MT= 66 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



MAT 6146 MT= 67 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

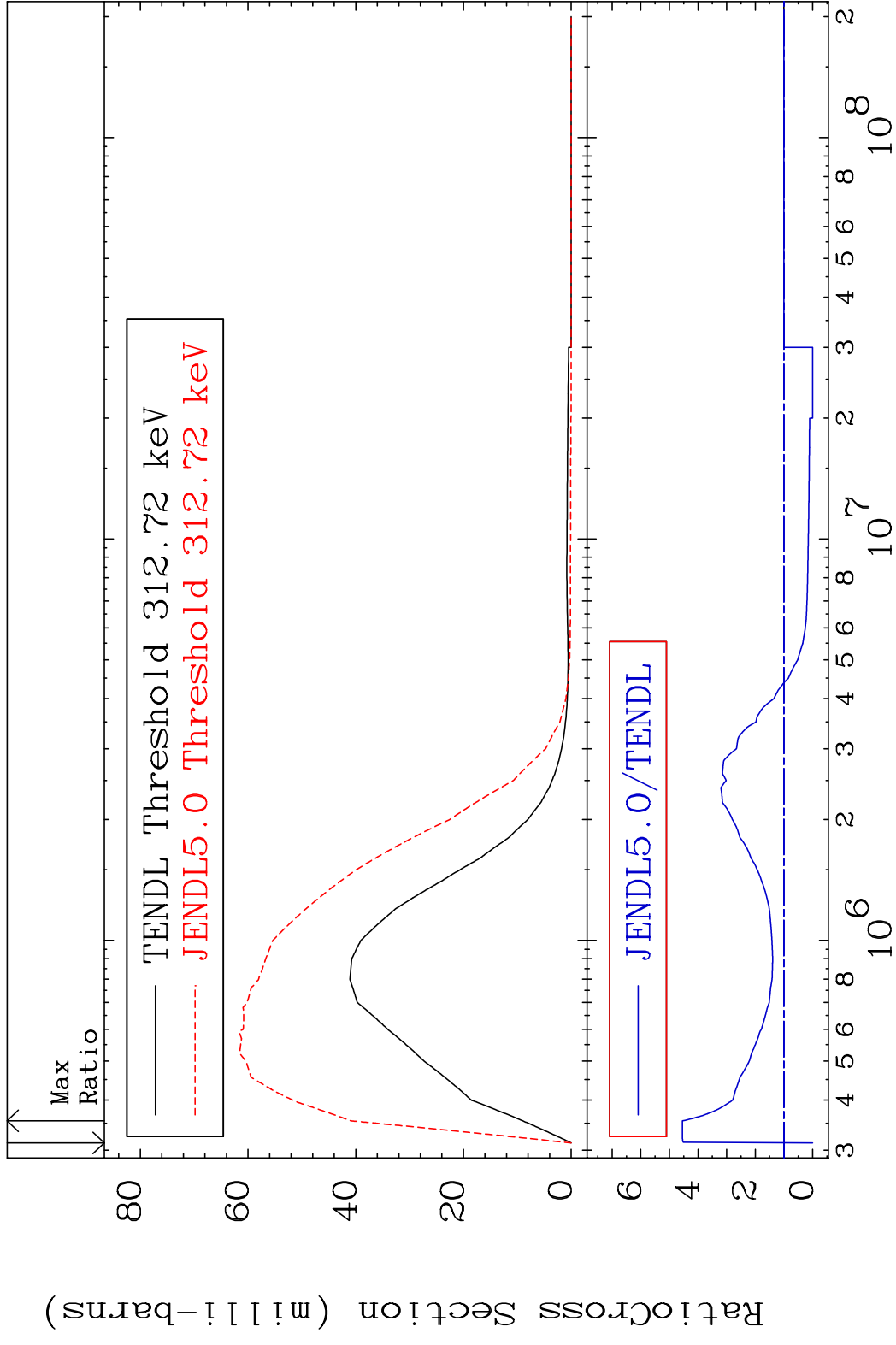


MAT 6146 MT= 68 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 9124. %

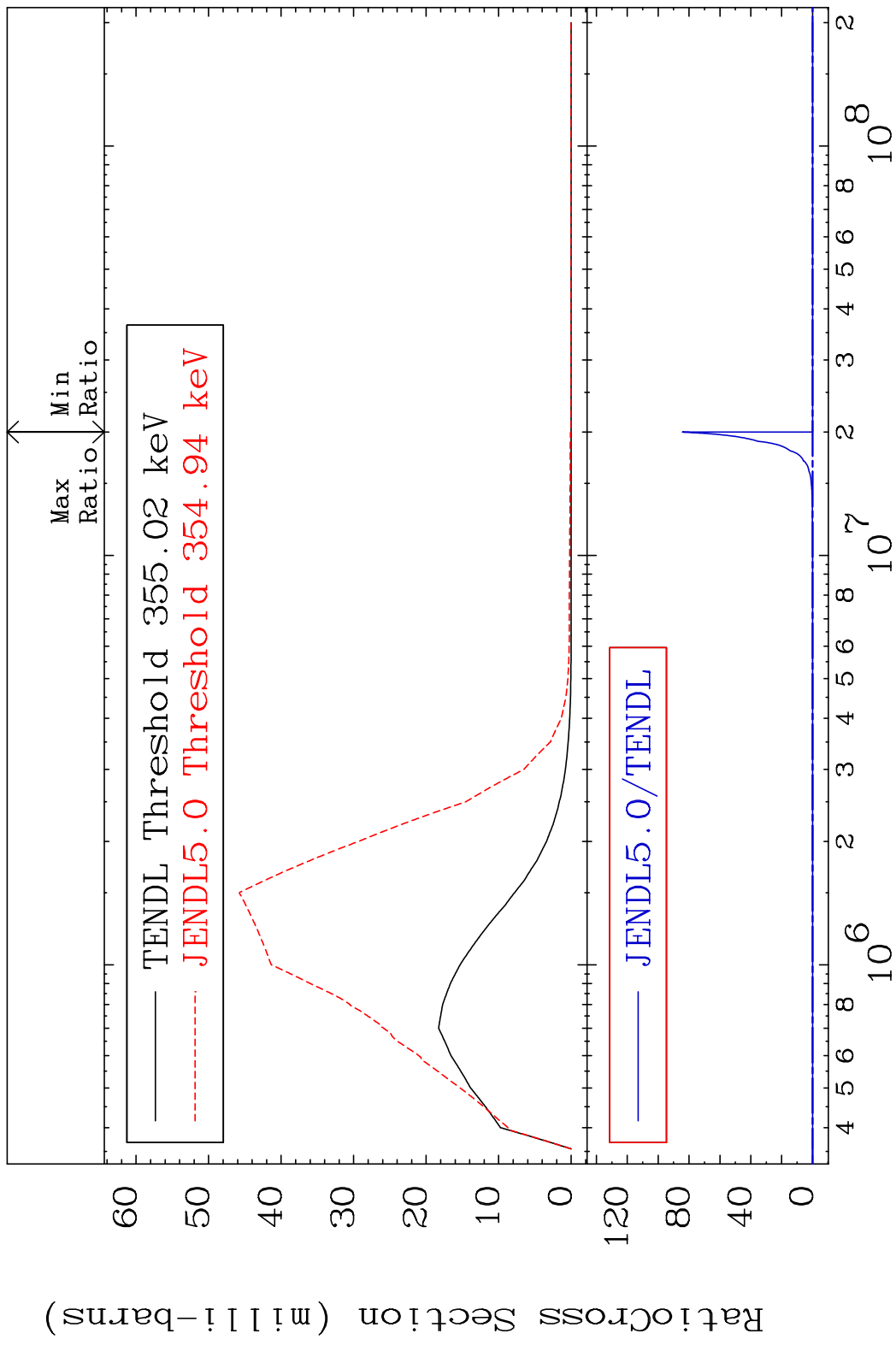


30 Incident Energy (eV) 61-Pm-146

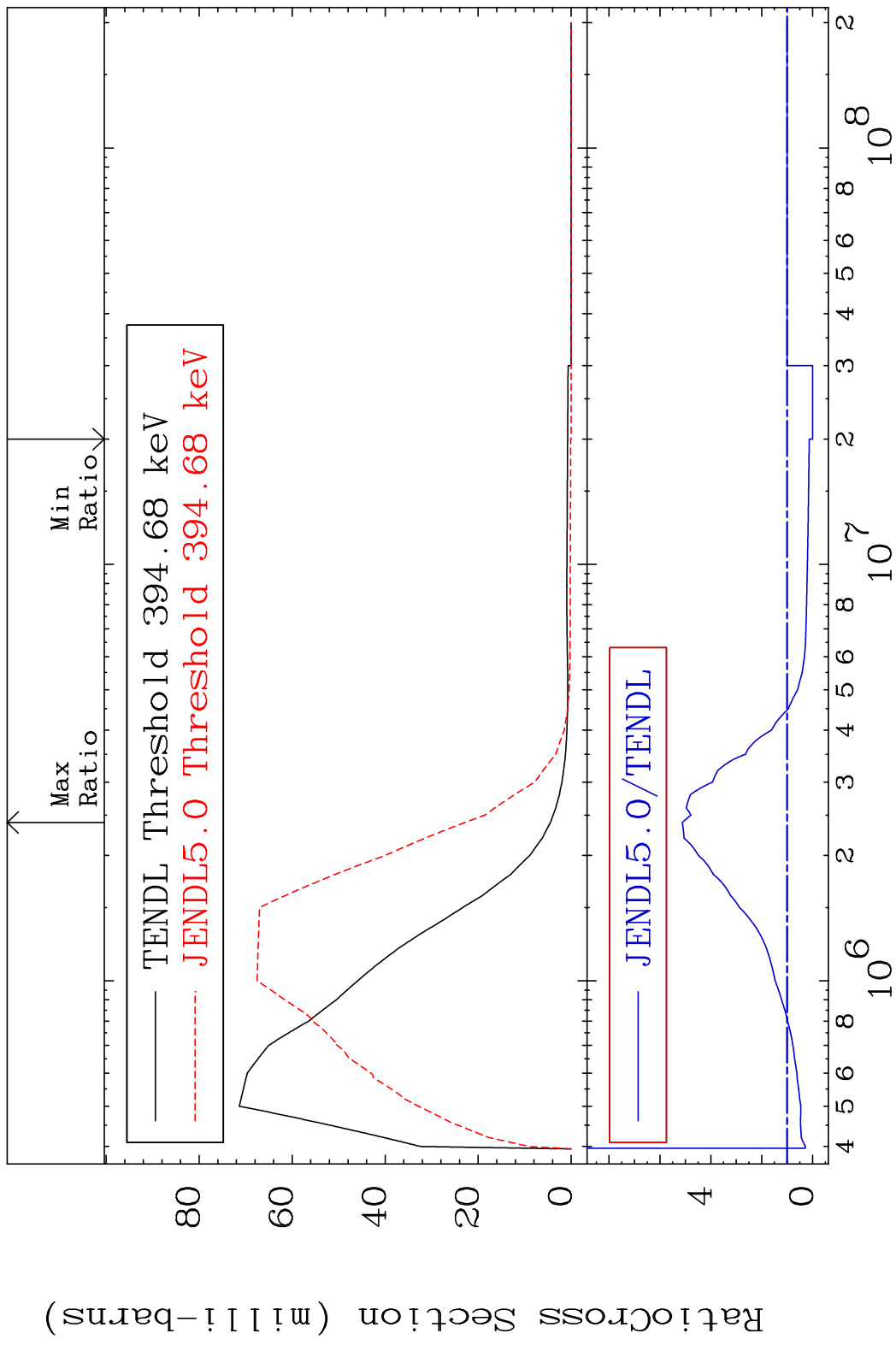
MAT 6146 MT= 69 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 354.7 %



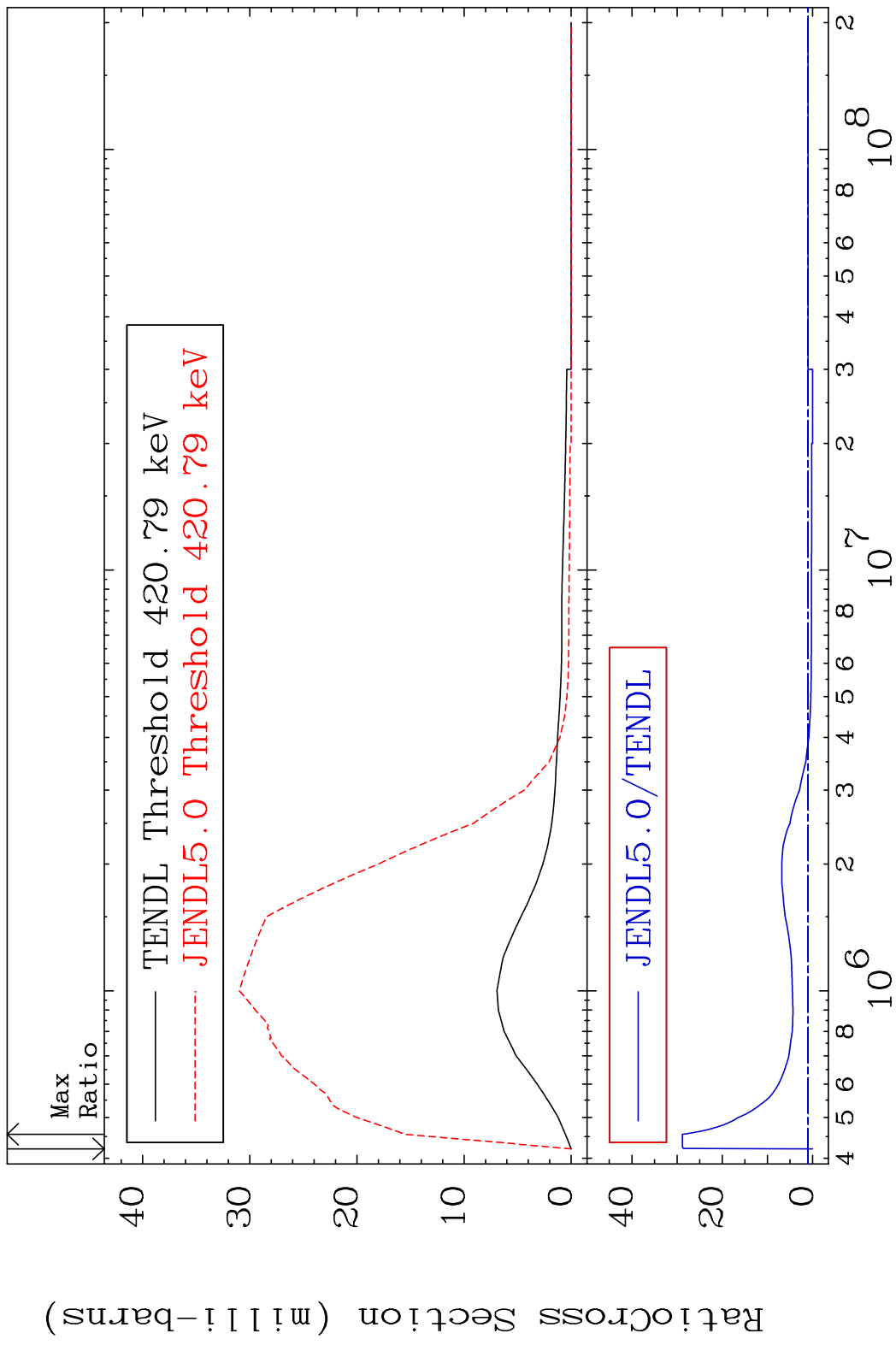
MAT 6146 MT= 70 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



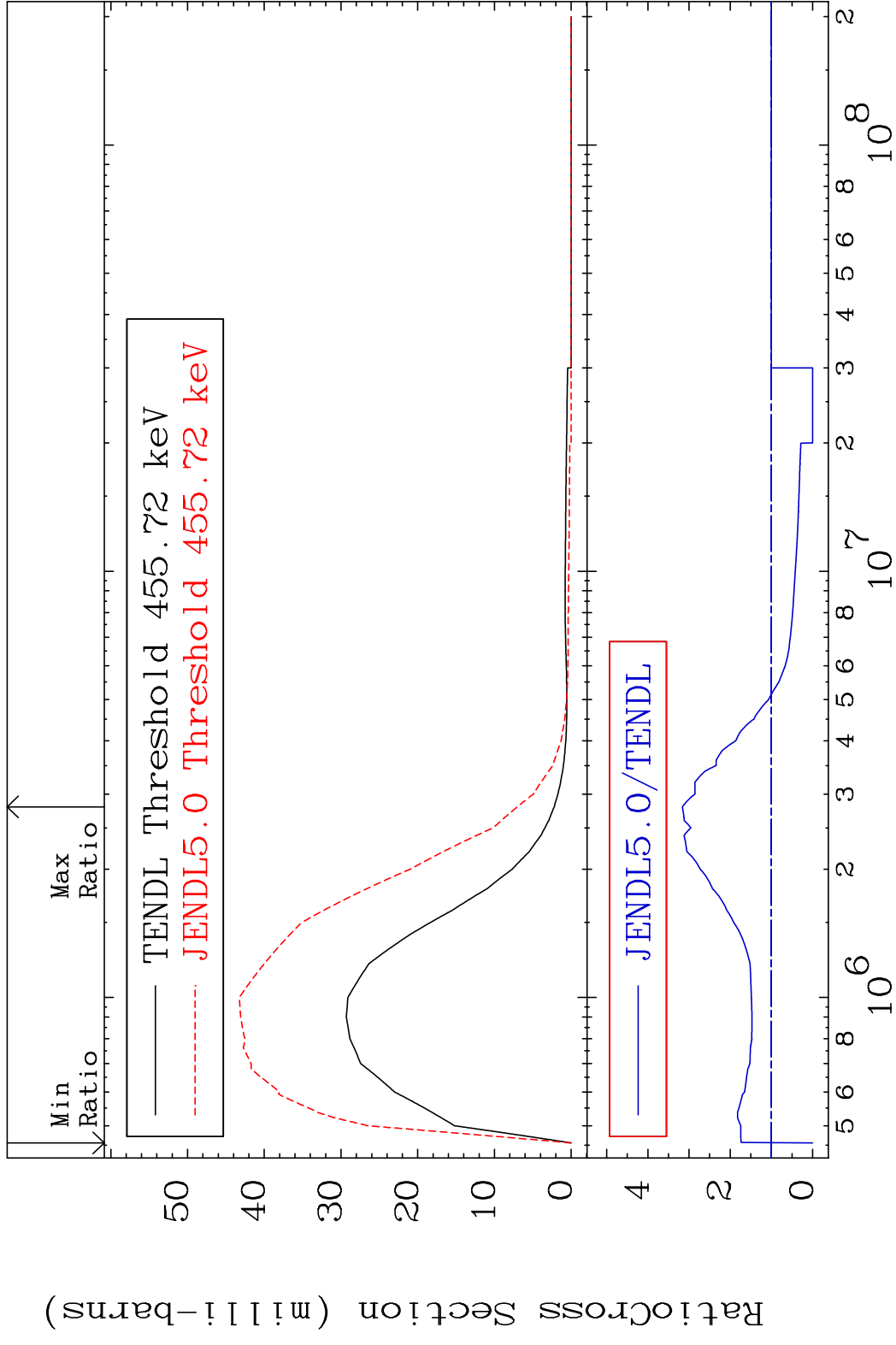
MAT 6146 MT= 71 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 411.9 %



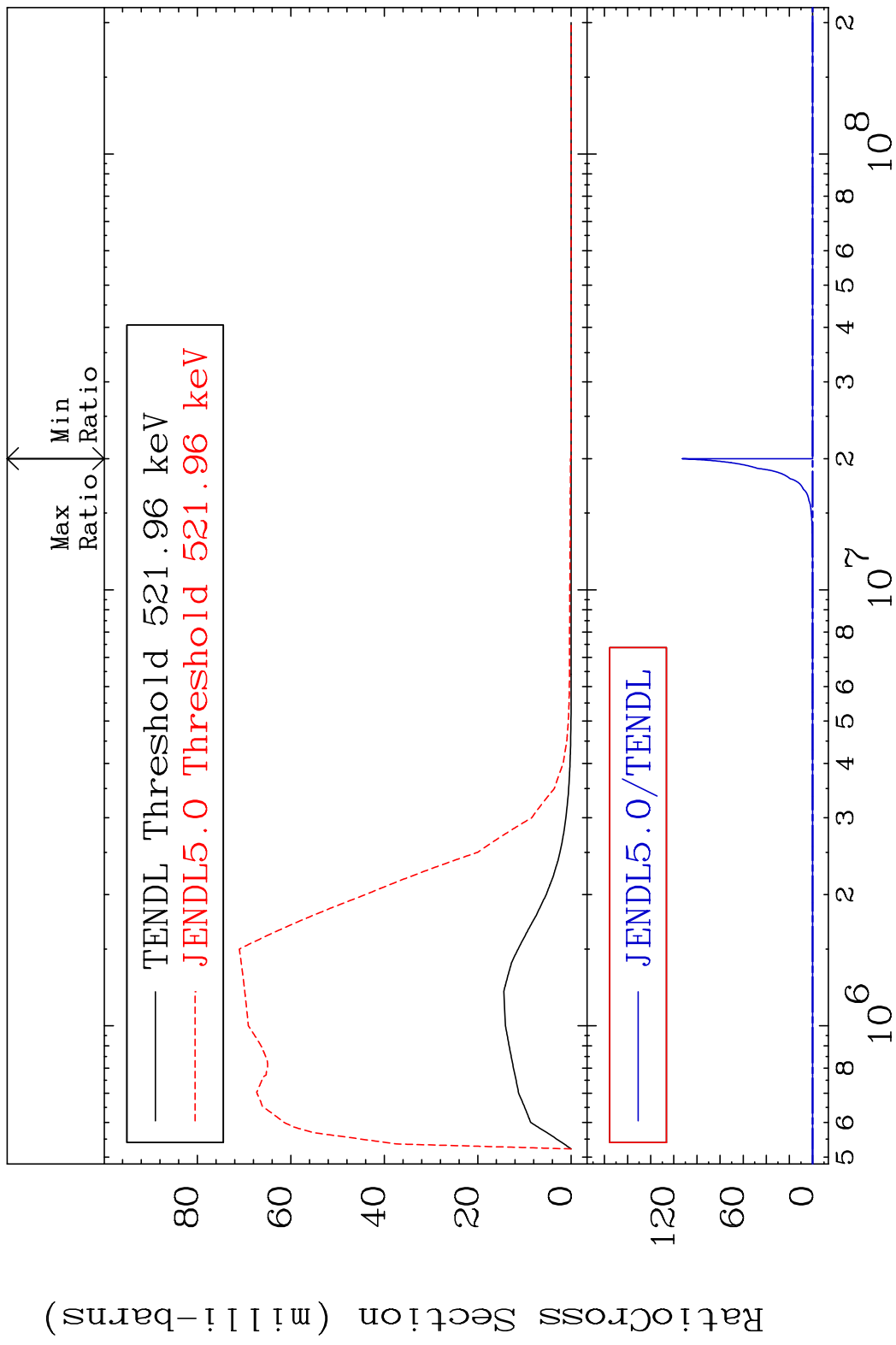
MAT 6146 MT= 72 (n,n') Level 61-Pm-146
 Cross Section -100.0 To 2783. %



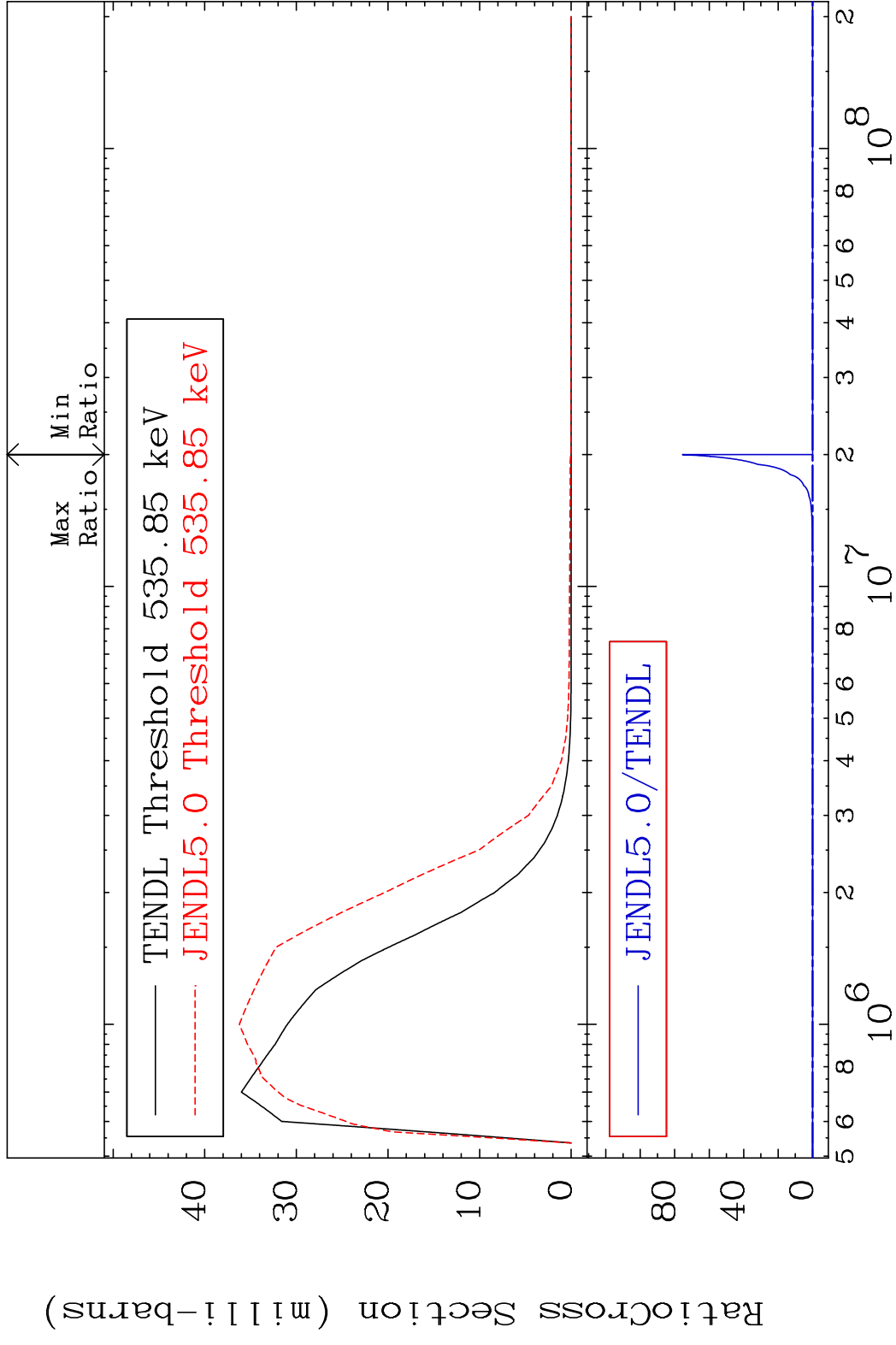
MAT 6146 MT= 73 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 216.3 %



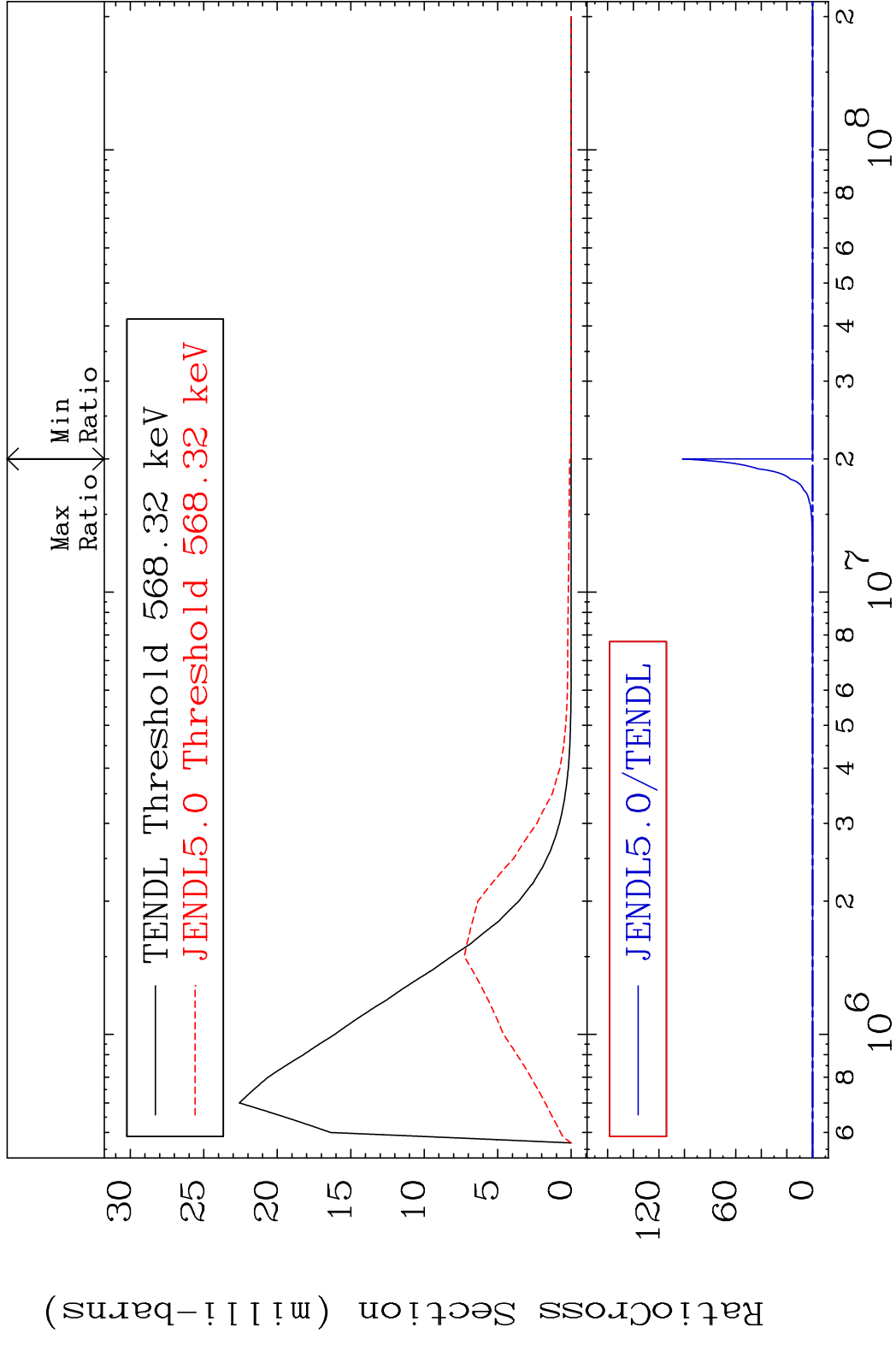
MAT 6146 MT= 74 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



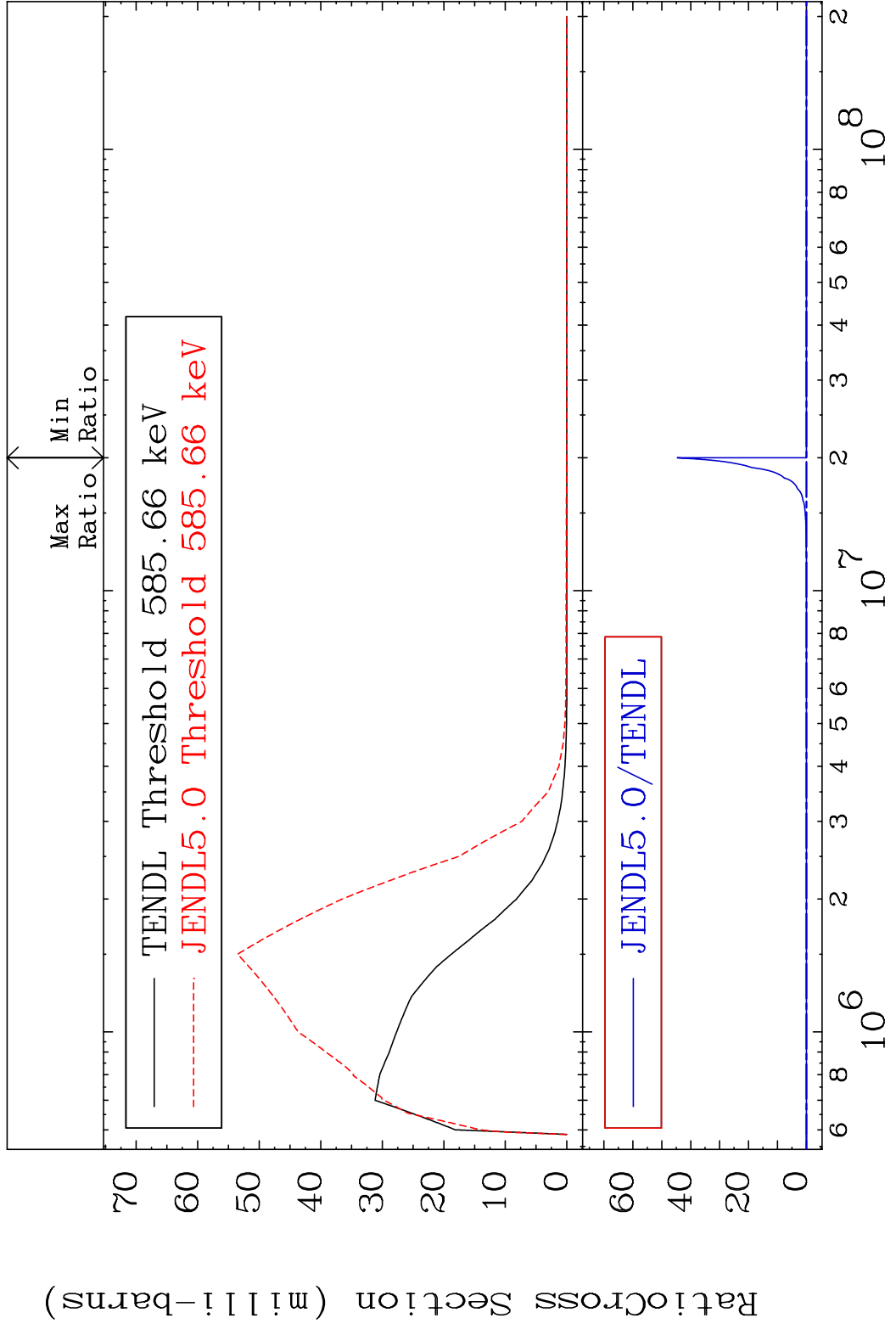
MAT 6146 MT= 75 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



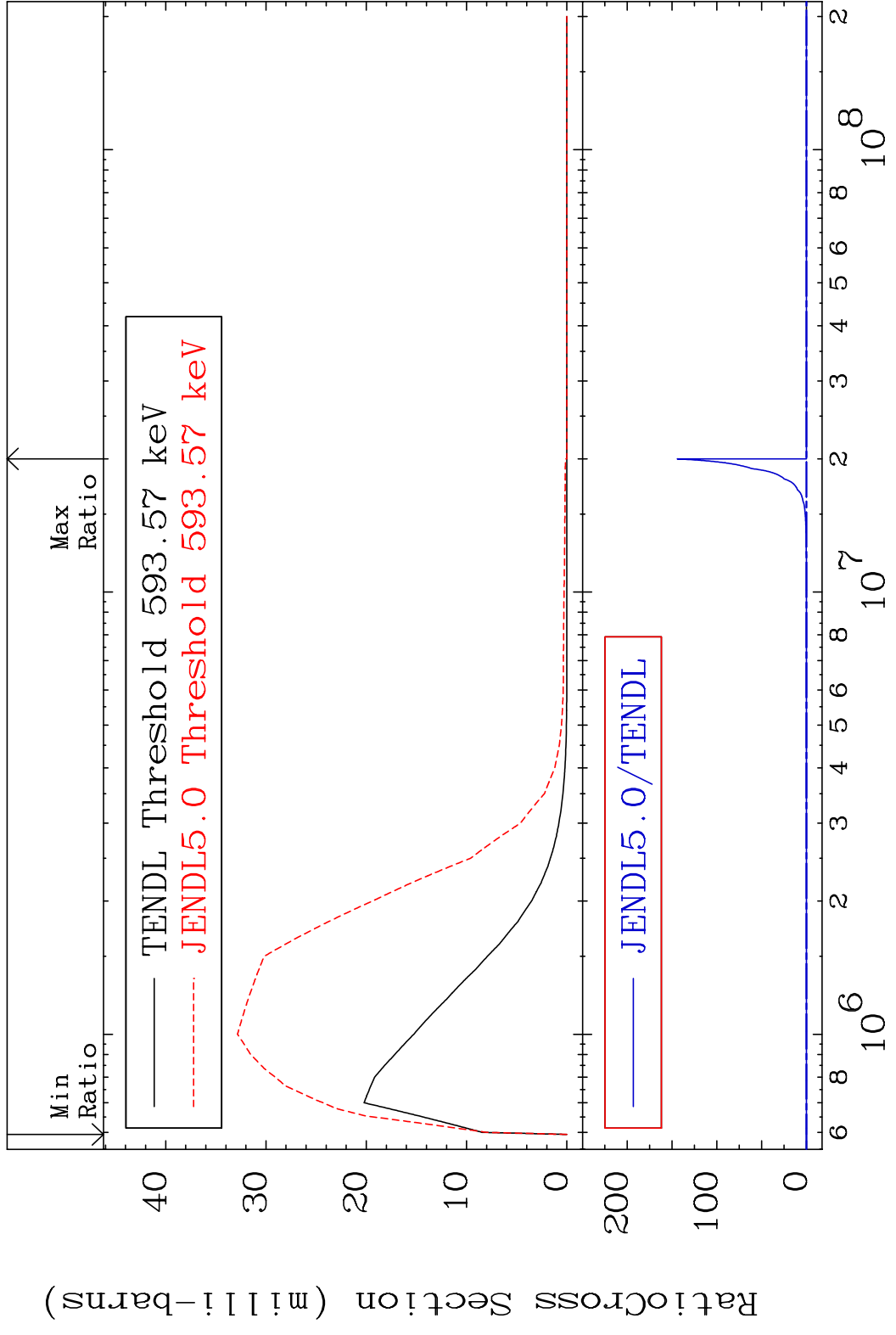
MAT 6146 MT= 76 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %



MAT 6146 MT= 77 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

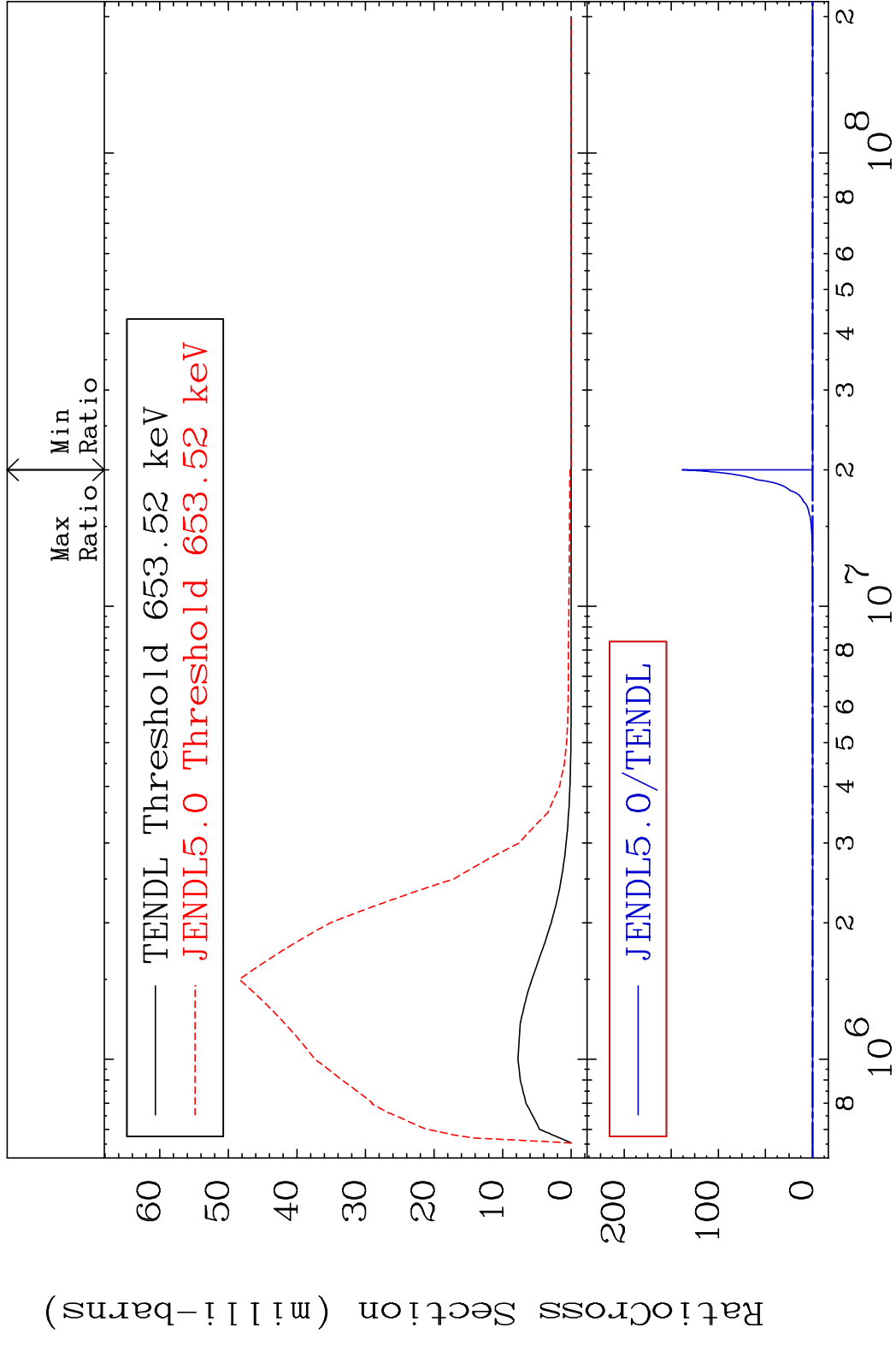


MAT 6146 MT= 78 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

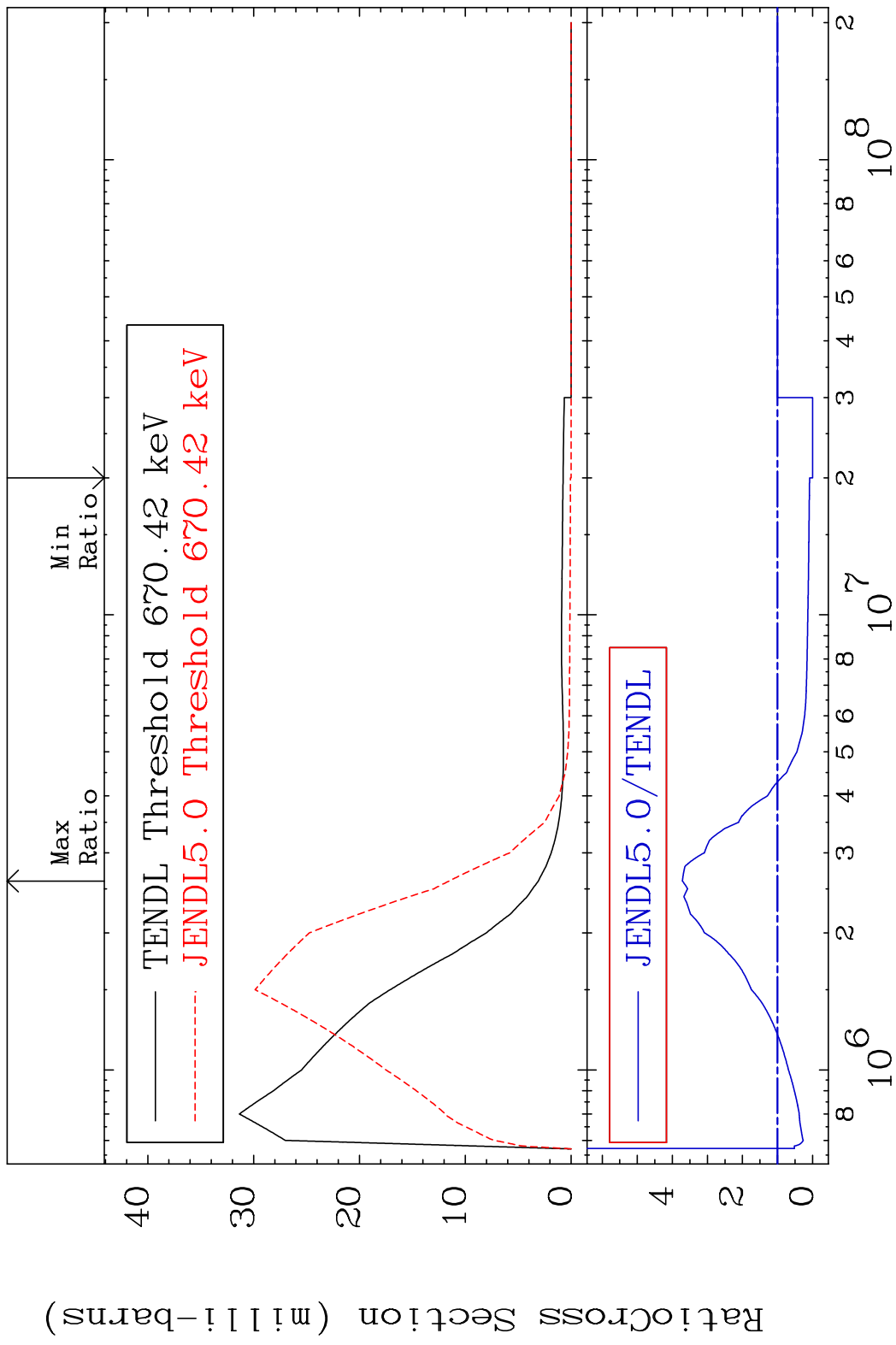


40 Incident Energy (eV) 61-Pm-146

MAT 6146 MT= 79 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 9999. %

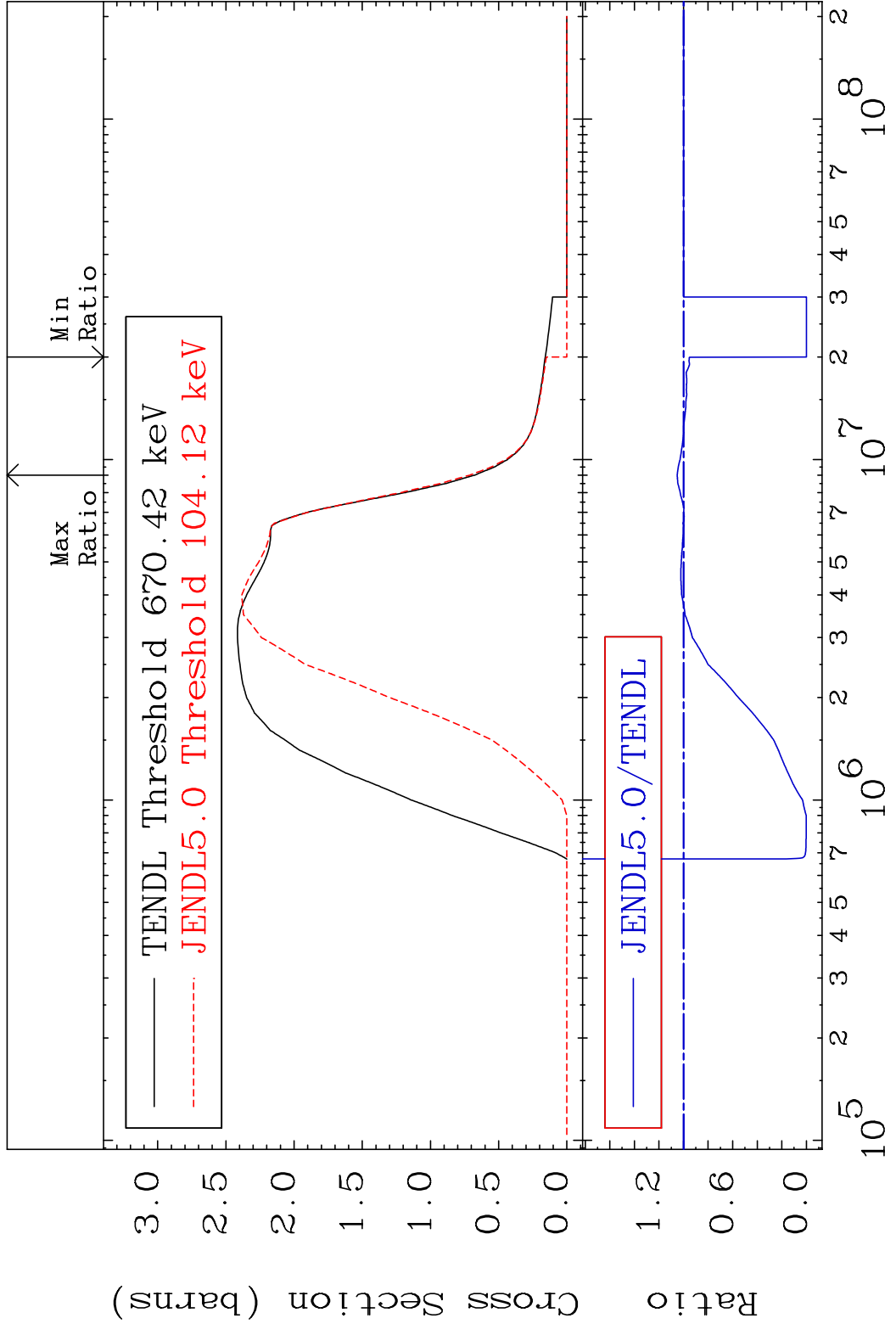


MAT 6146 MT= 80 (n, n') Level 61-Pm-146
 Cross Section -100.0 To 271.4 %



42 Incident Energy (eV) 61-Pm-146

MAT 6146 (n, n') Continuum 61-Pm-146
 Cross Section -100.0 To 5.162 %



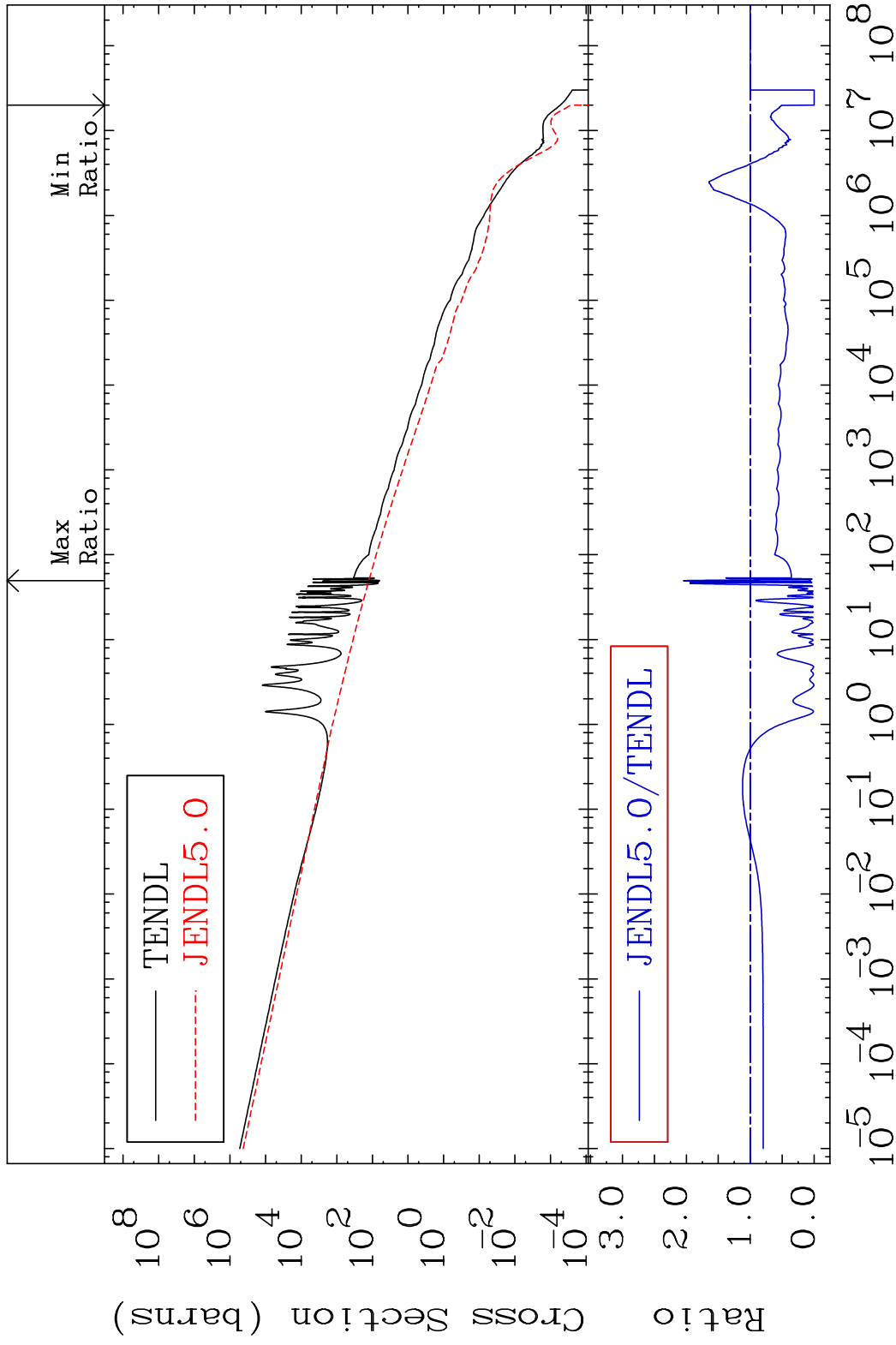
43 Incident Energy (eV) 61-Pm-146

MAT 6146

(n, γ)

61-Pm-146

Cross Section -100.0 To 104.2 %



44

Incident Energy (eV)

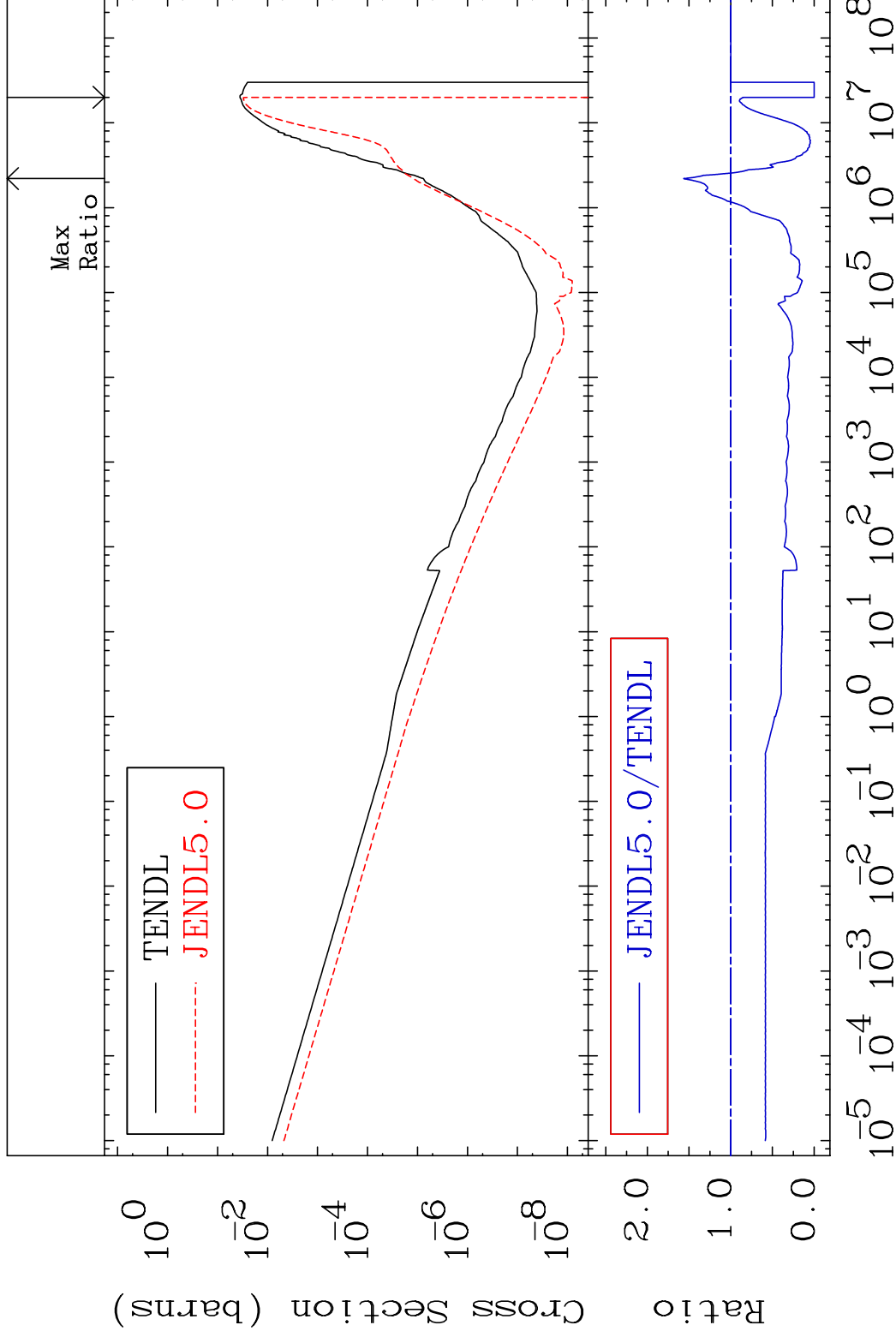
61-Pm-146

MAT 6146

(n, p)

61-Pm-146

Cross Section -100.0 To 56.48 %



45

Incident Energy (eV)

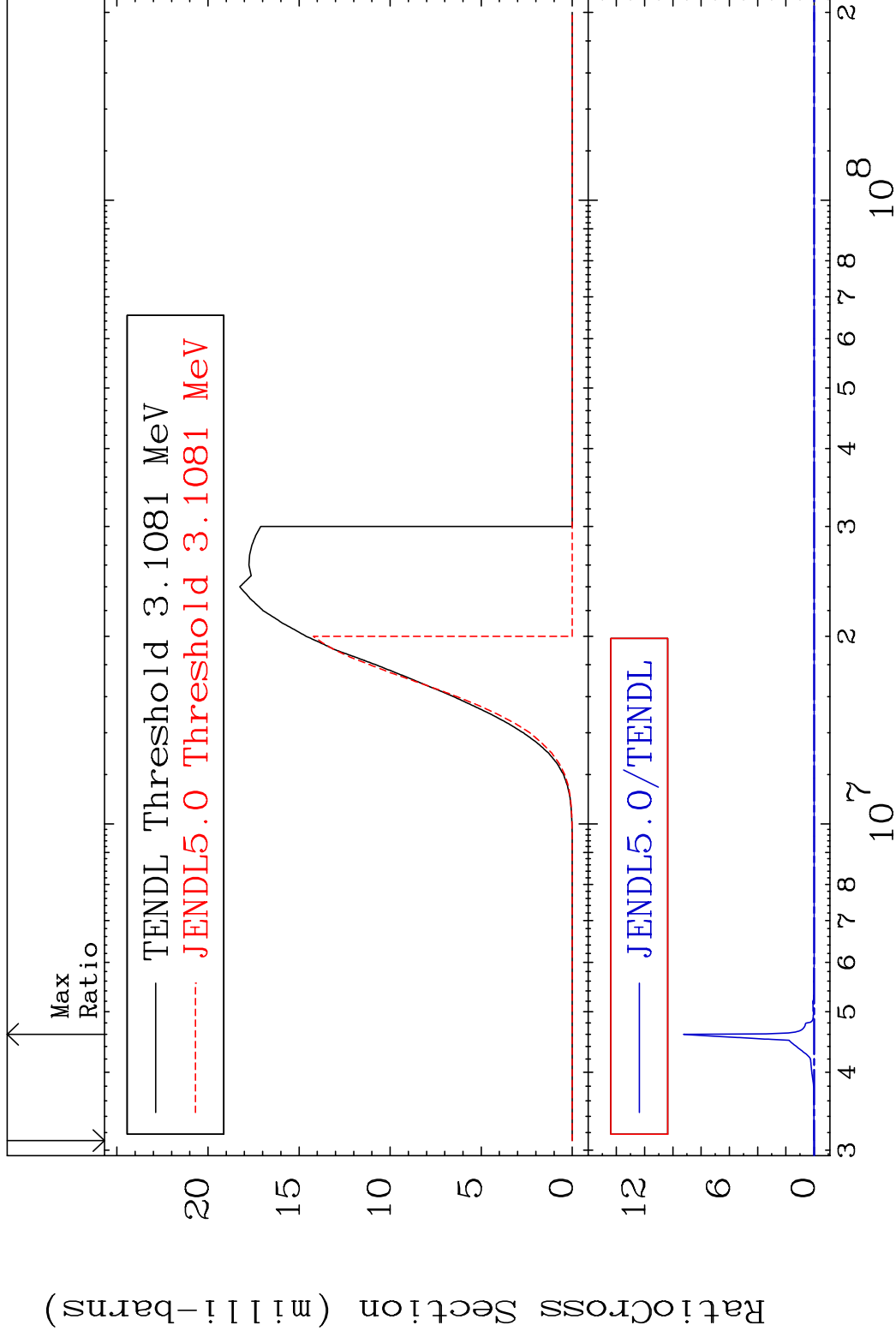
61-Pm-146

MAT 6146

(n,d)

61-Pm-146

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

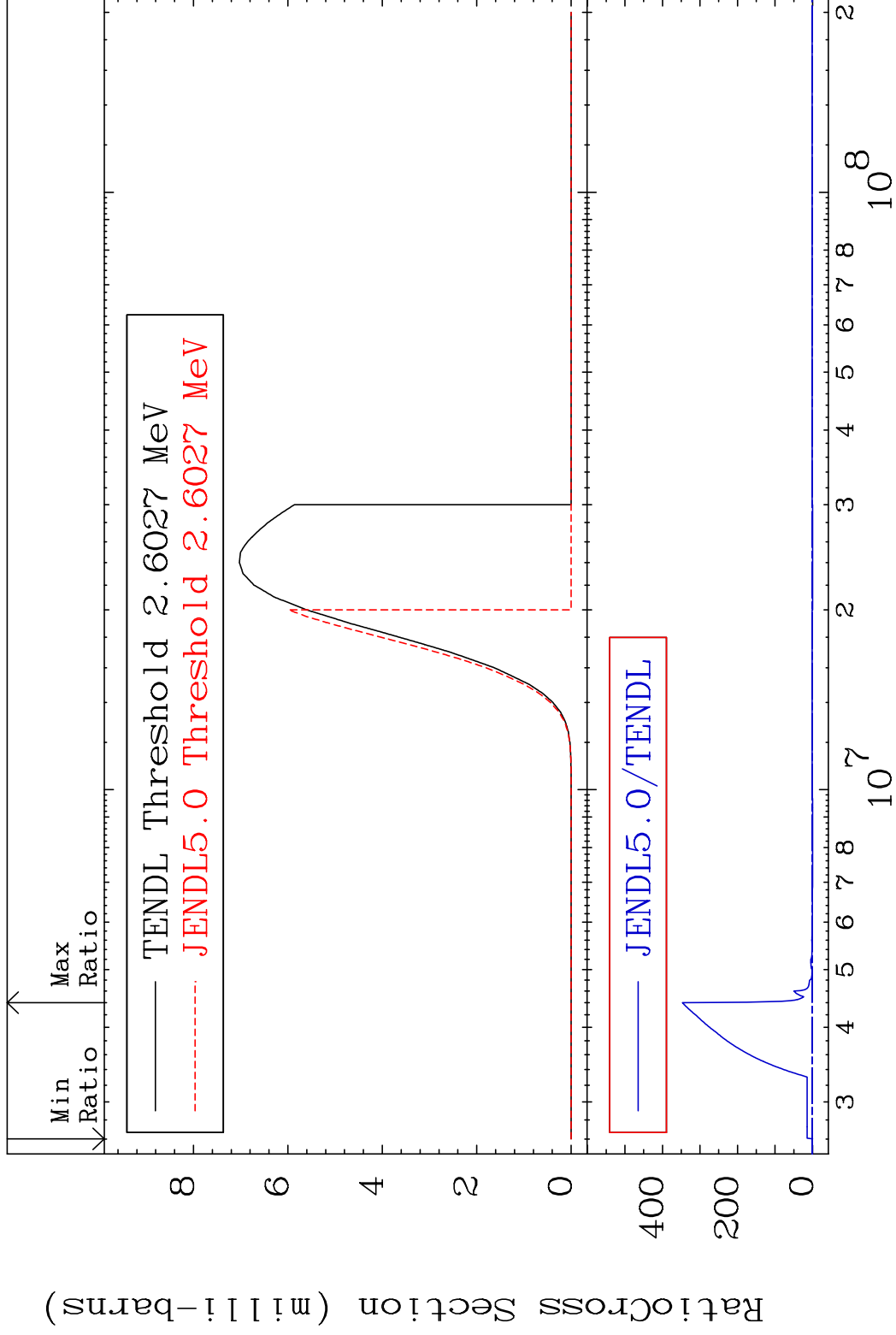
61-Pm-146

MAT 6146

(n, t)

61-Pm-146

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

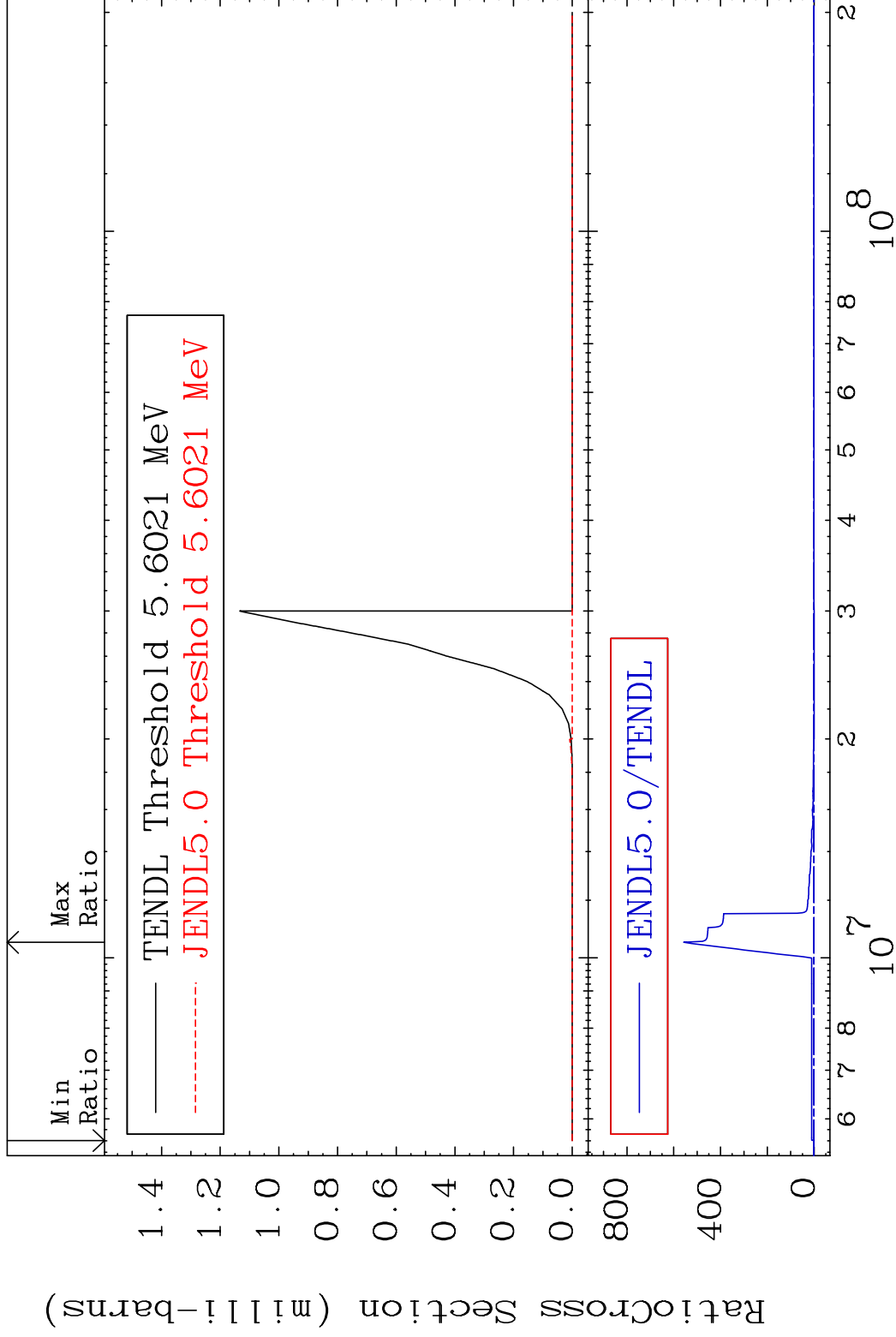
61-Pm-146

MAT 6146

(n, He-3)

61-Pm-146

Cross Section -100.0 To 9999. %



48

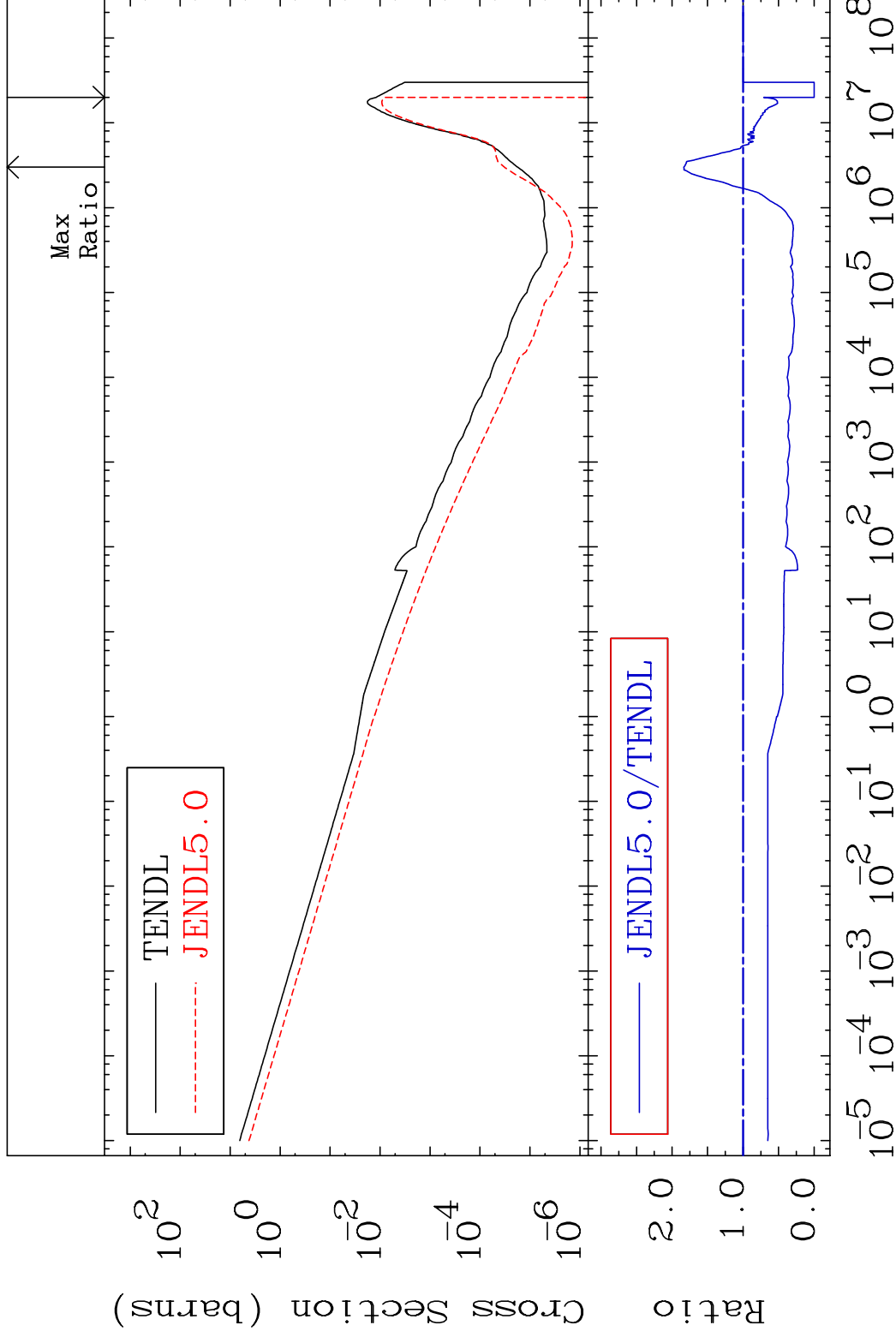
Incident Energy (eV)

61-Pm-146

MAT 6146

(n, α)
Cross Section -100.0 To 83.66 %

61-Pm-146



49

Incident Energy (eV)

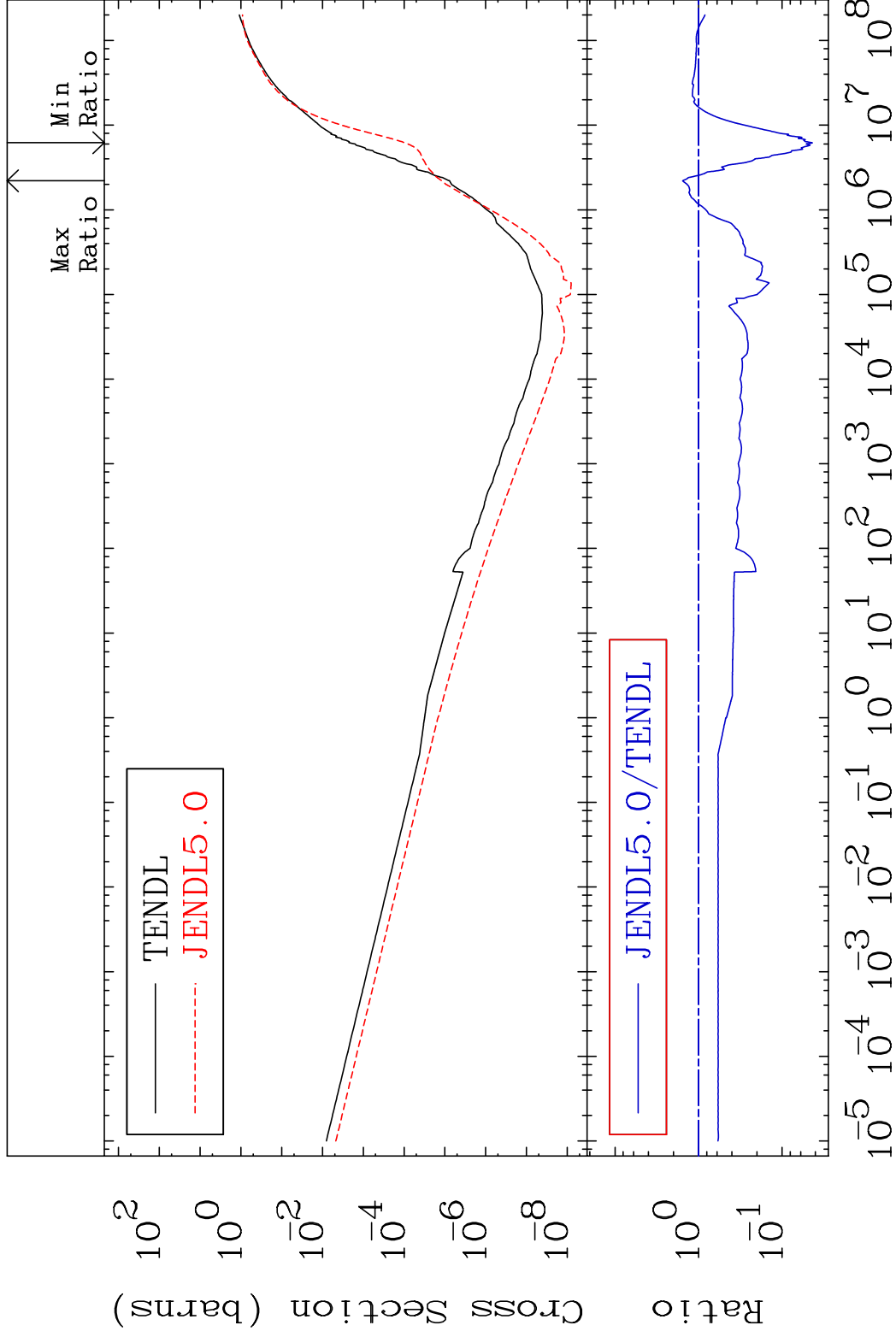
61-Pm-146

MAT 6146

Hydrogen Production

61-Pm-146

Cross Section -95.67 To 56.48 %

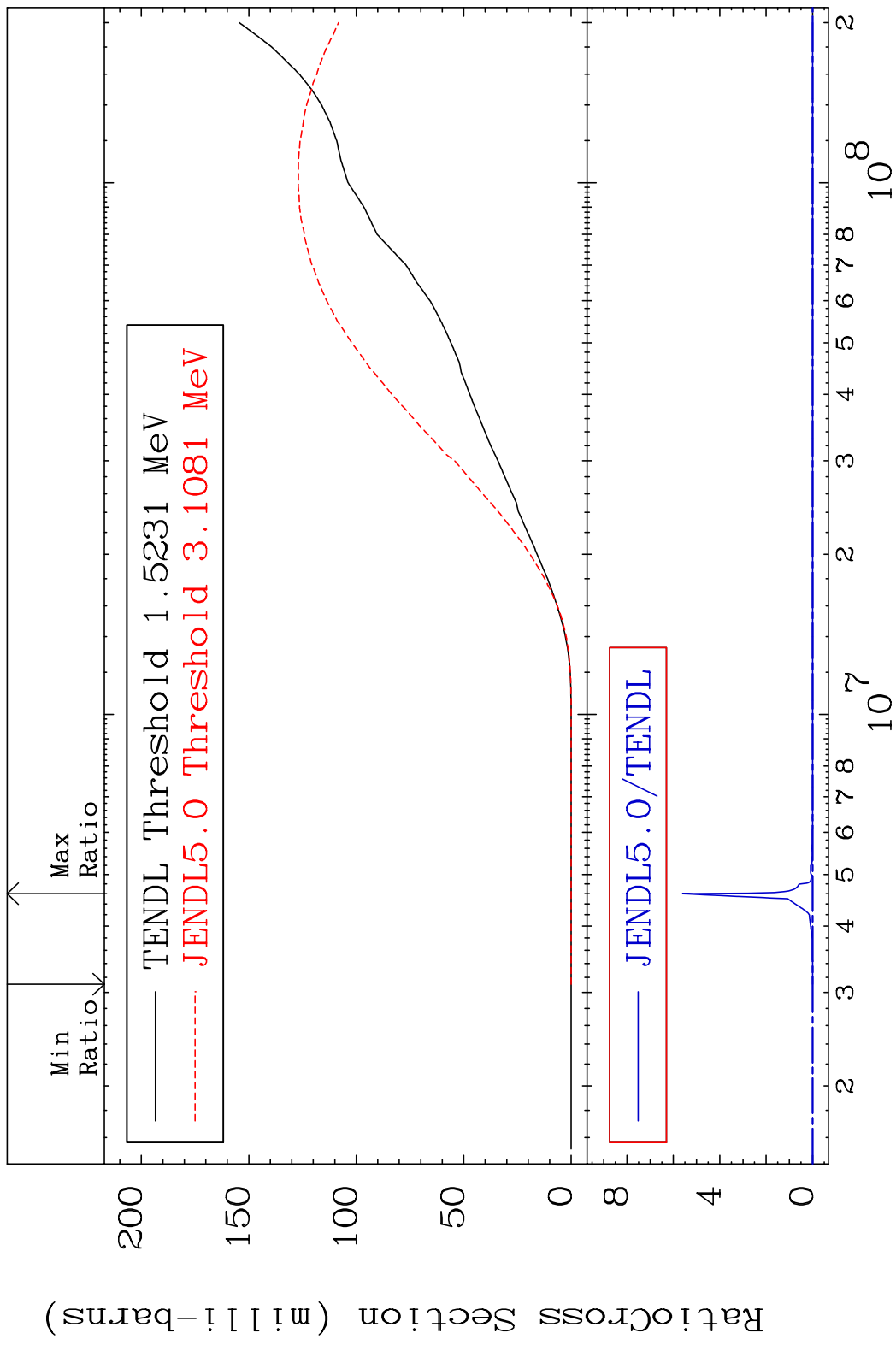


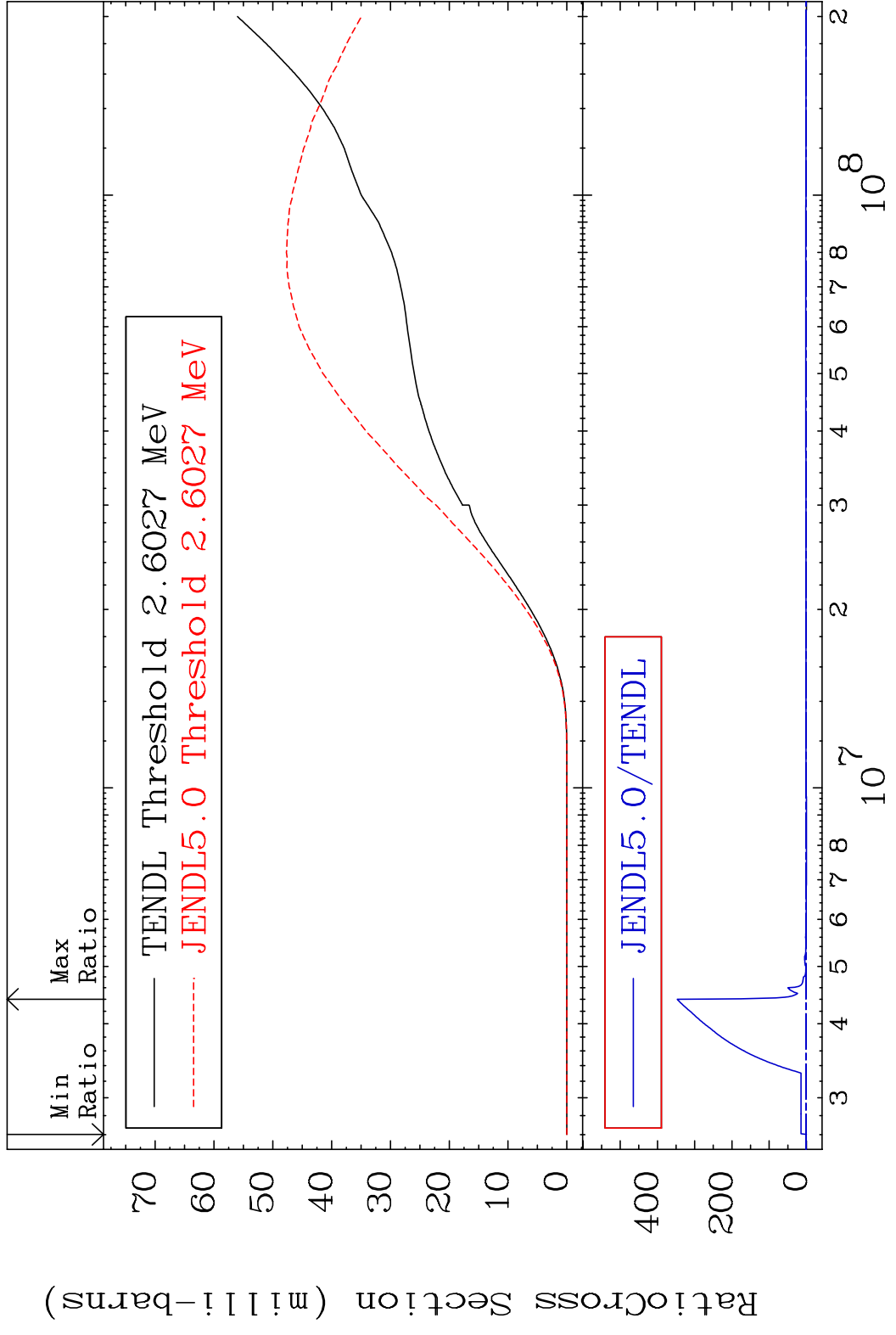
50

Incident Energy (eV)

61-Pm-146

MAT 6146 Deuterium Production 61-Pm-146
 Cross Section -100.0 To 9999. %



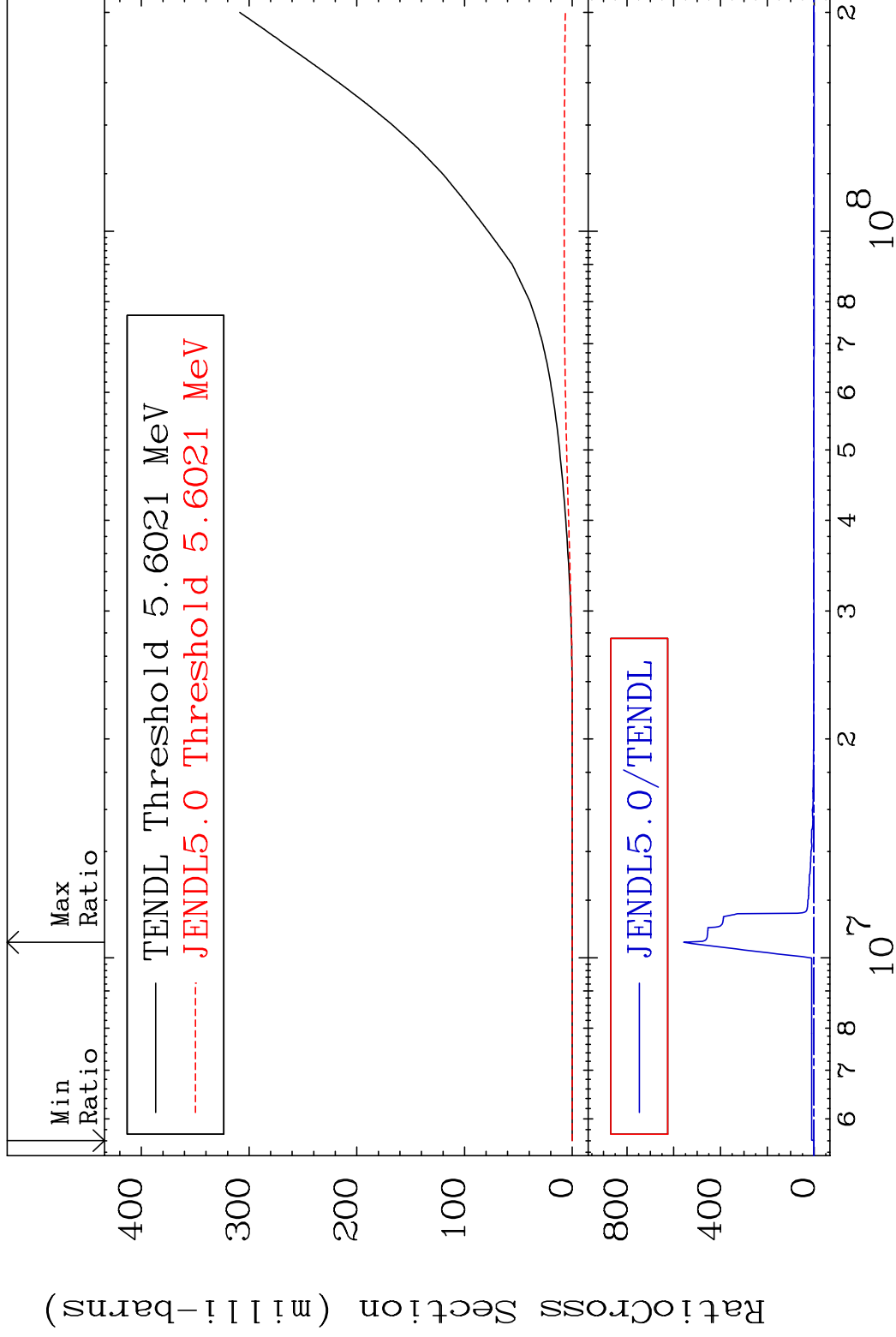


MAT 6146

He-3 Production

61-Pm-146

Cross Section -100.0 To 9999. %



53

Incident Energy (eV)

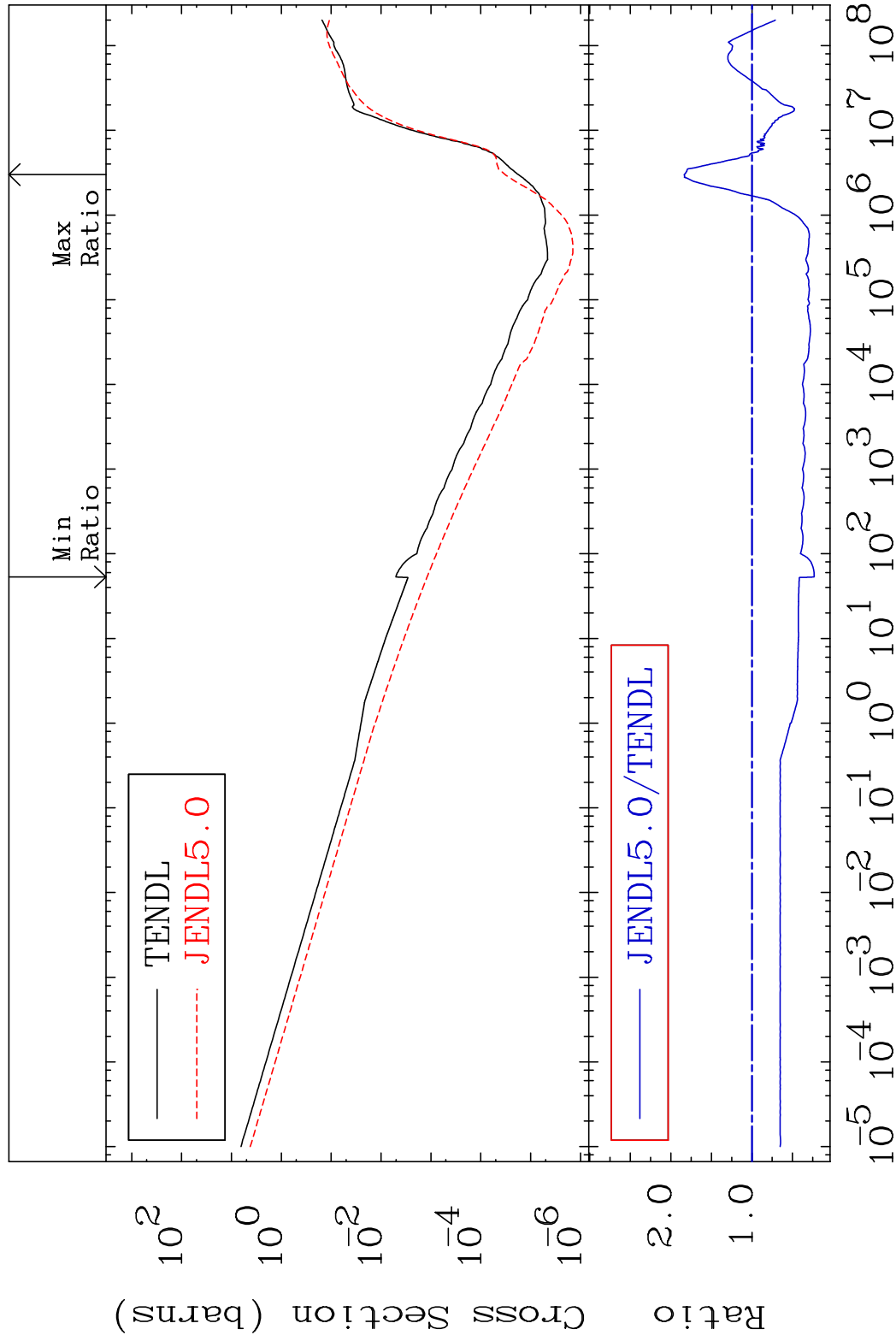
61-Pm-146

MAT 6146

He-4 Production

61-Pm-146

Cross Section -76.81 To 83.66 %

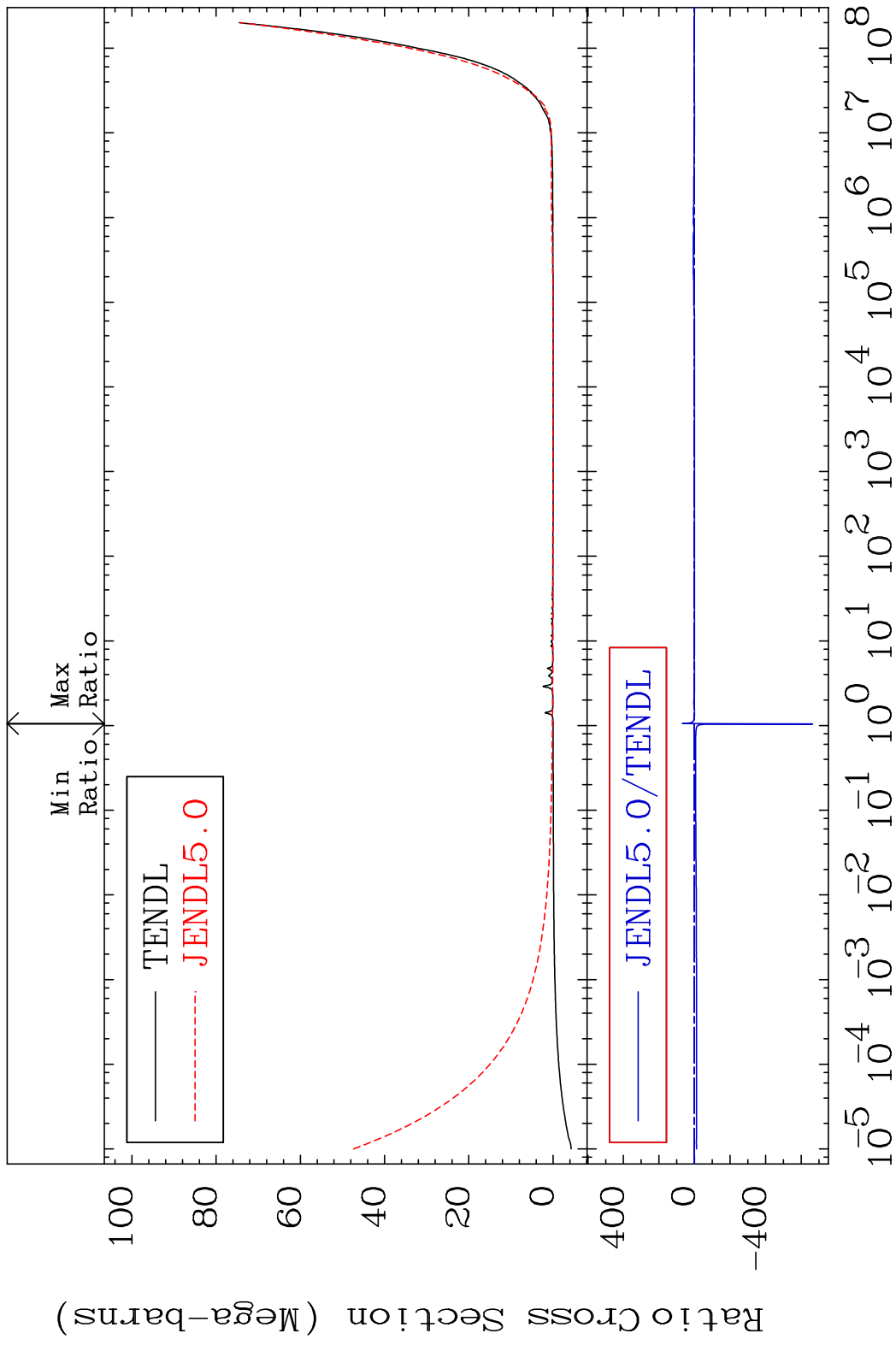


54

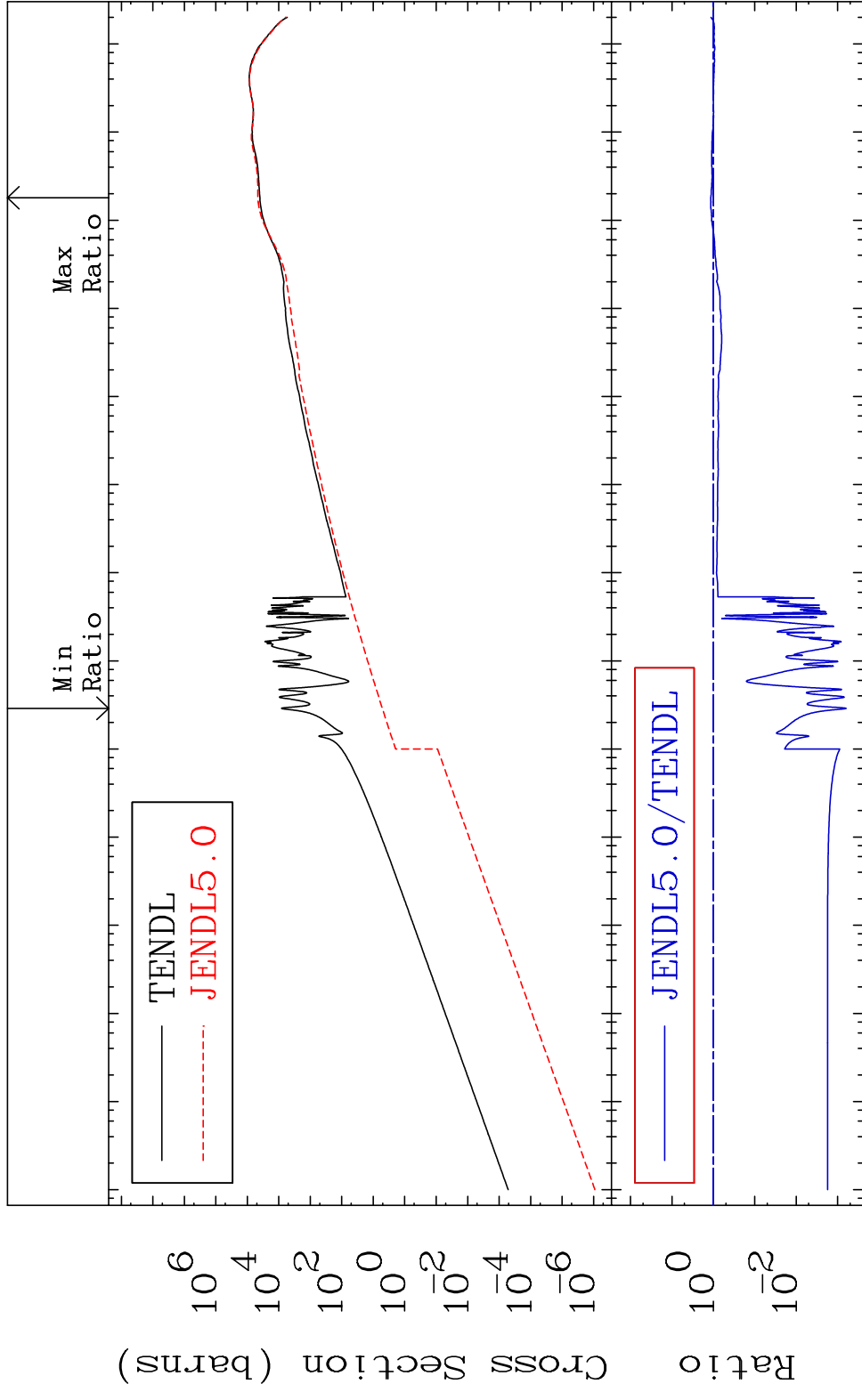
Incident Energy (eV)

61-Pm-146

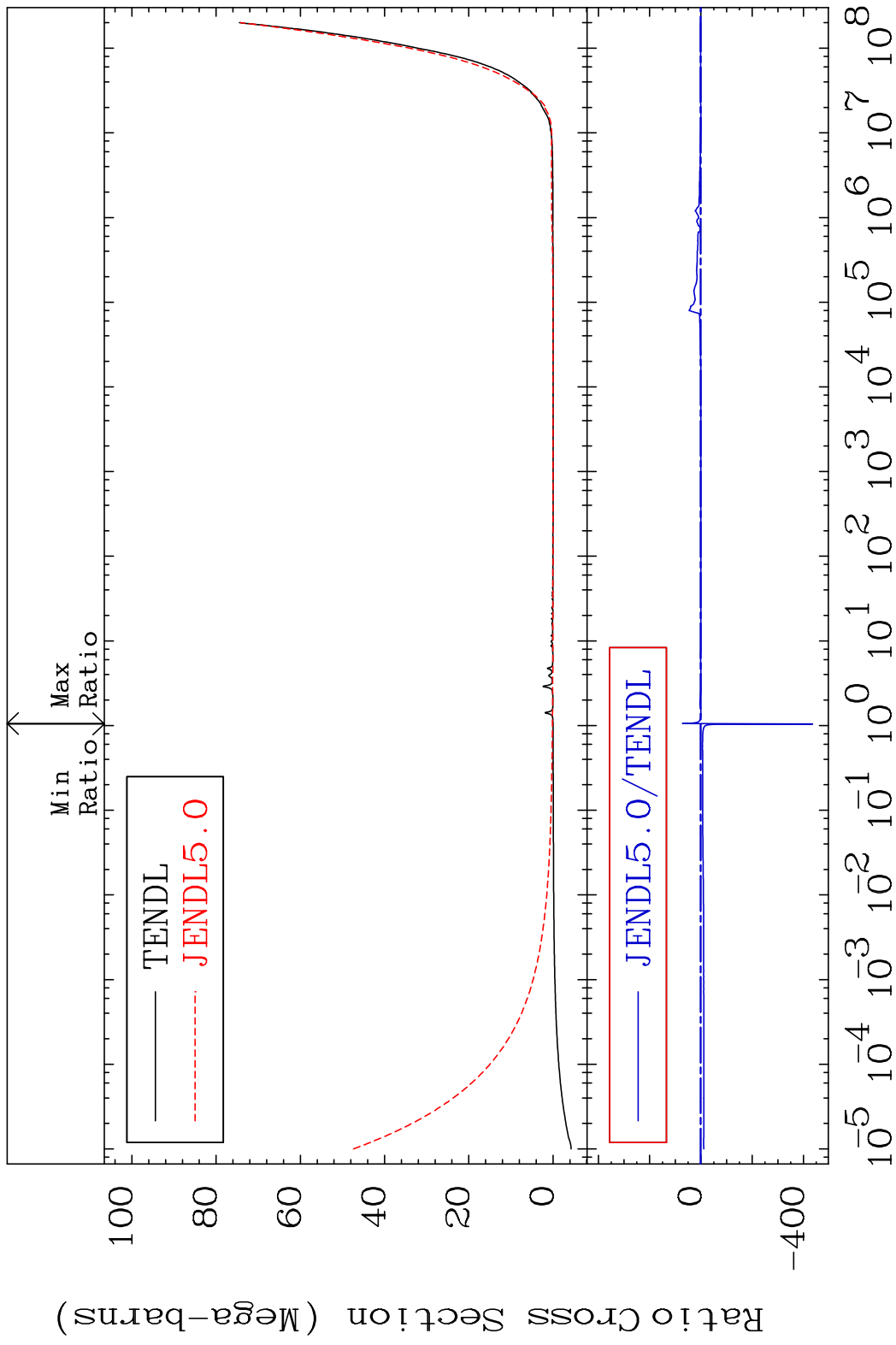
MAT 6146 Kerma total (eV-barns) 61-Pm-146
Cross Section -9999. To 6743. %



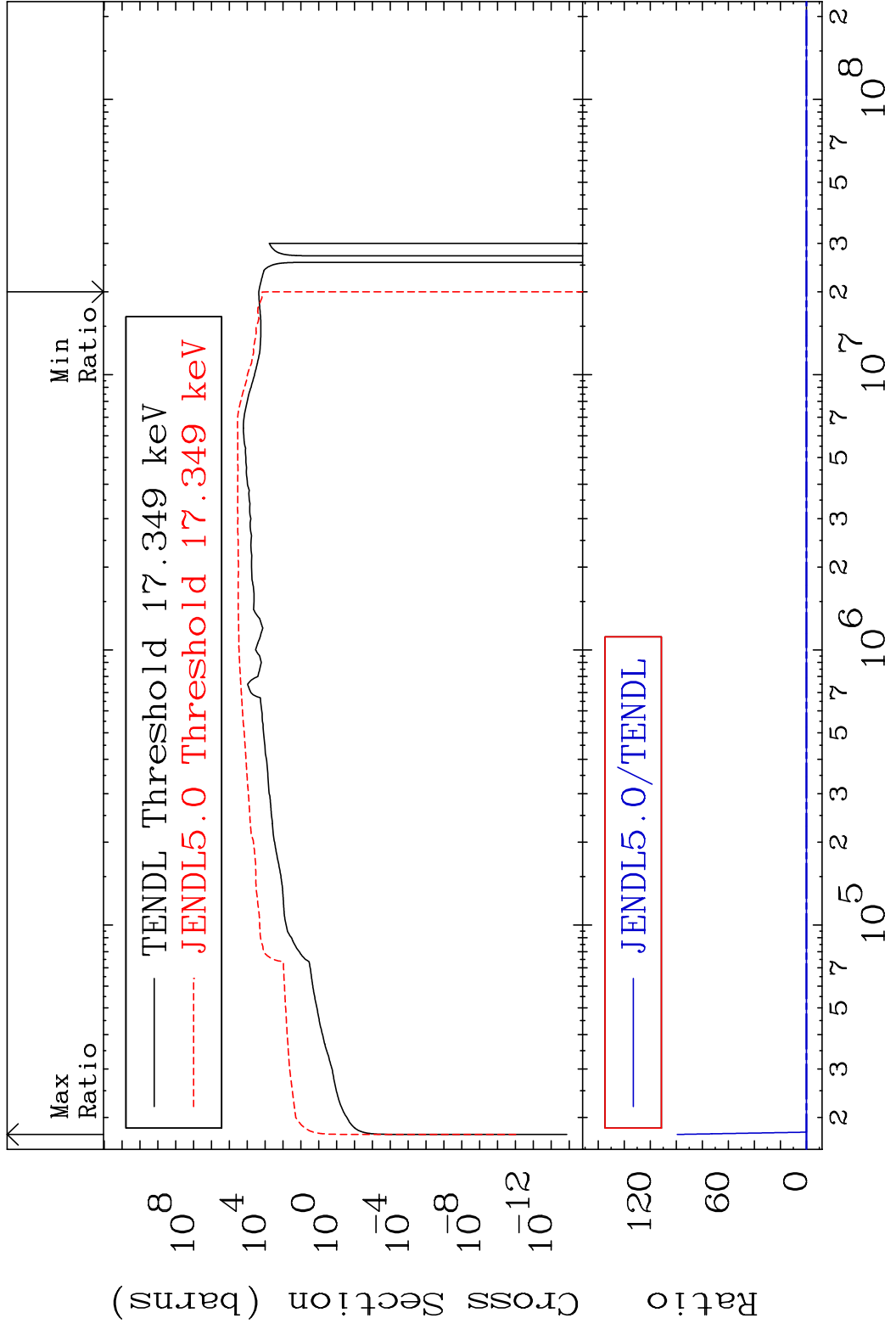
MAT 6146 Kerma elastic 61-Pm-146
 Cross Section -99.94 To 16.00 %



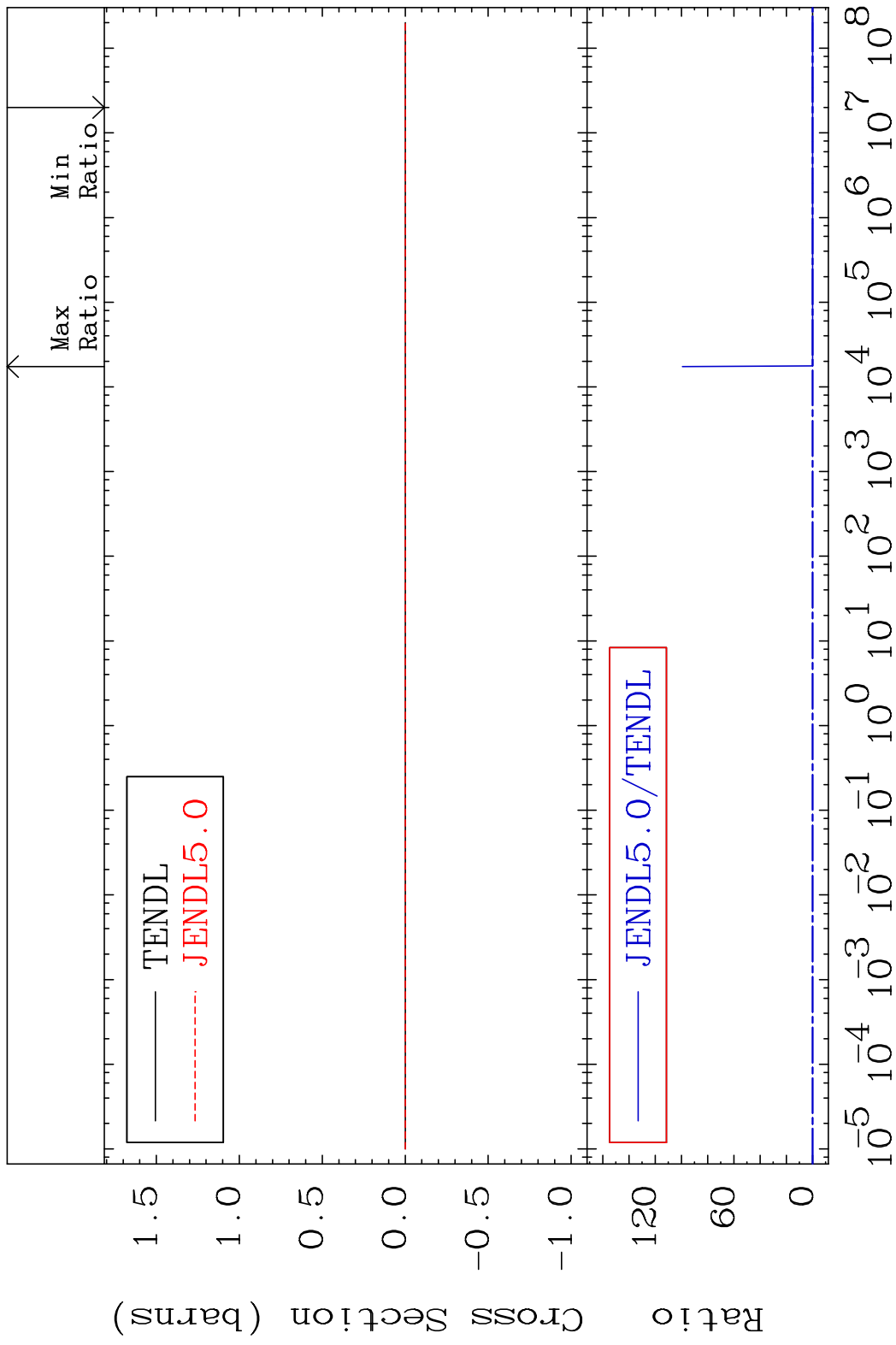
MAT 6146 Kerma non-elastic (all but mt2) 61-Pm-146
Cross Section -9999. To 7148. %



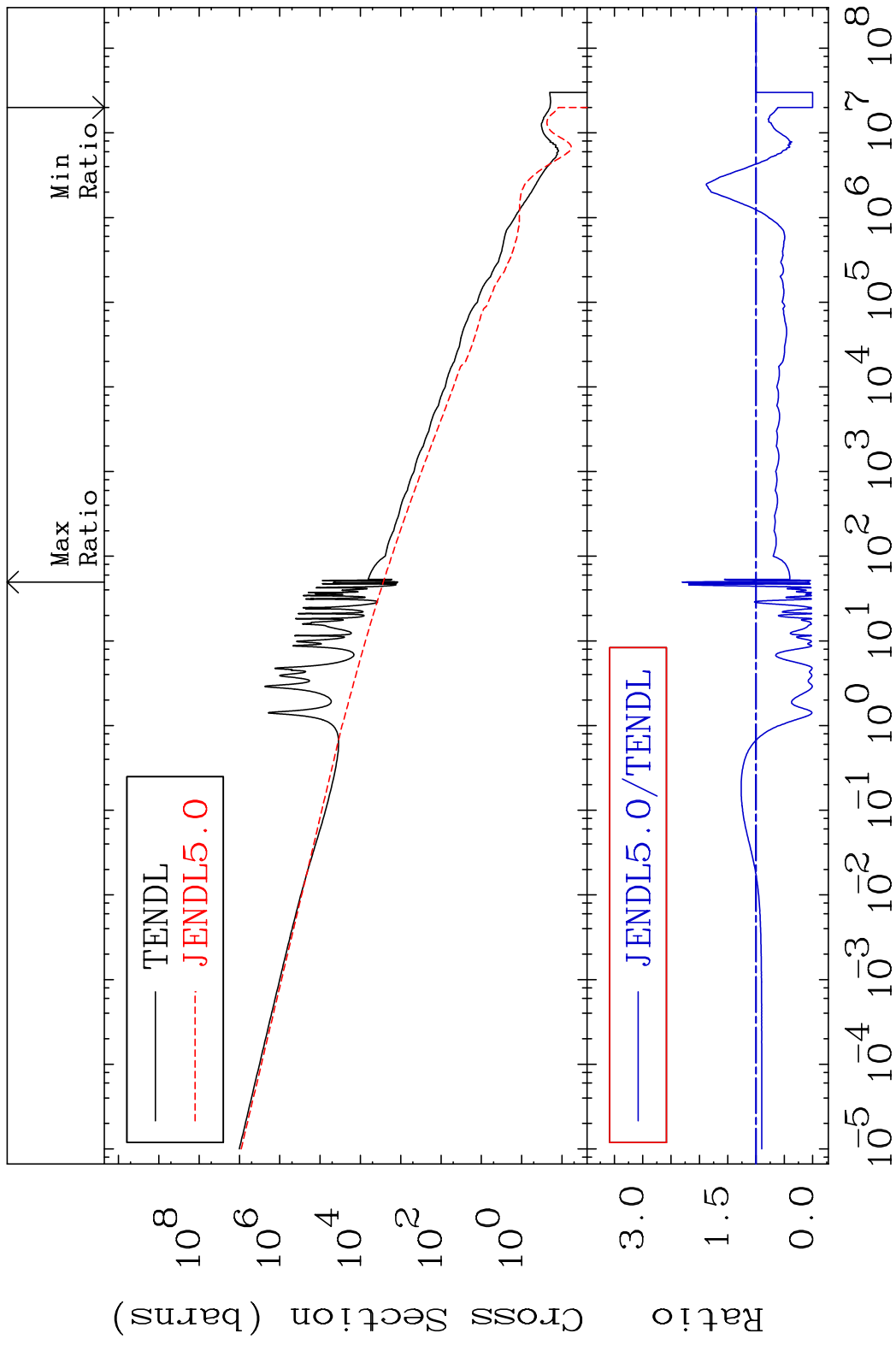
MAT 6146 Kerma inelastic (mt51-91) 61-Pm-146
 Cross Section -100.0 To 9999. %



MAT 6146 Kerma fission (mt18 or mt19-20-21-38) β 1-Pm-146
 Cross Section -100.0 To 9999. %

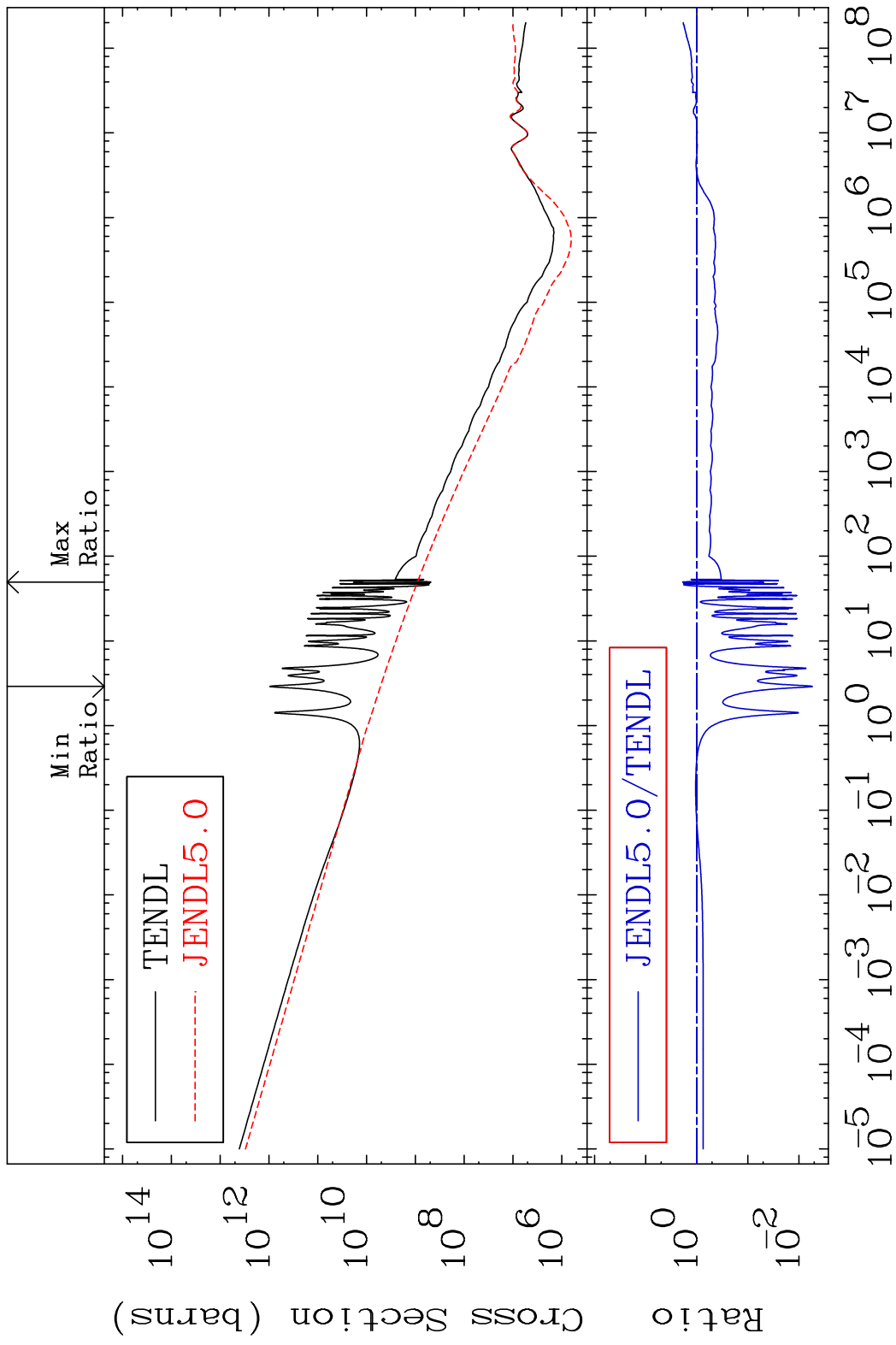


MAT 6146 Kerma capture (mt102) 61-Pm-146
 Cross Section -100.0 To 130.1 %



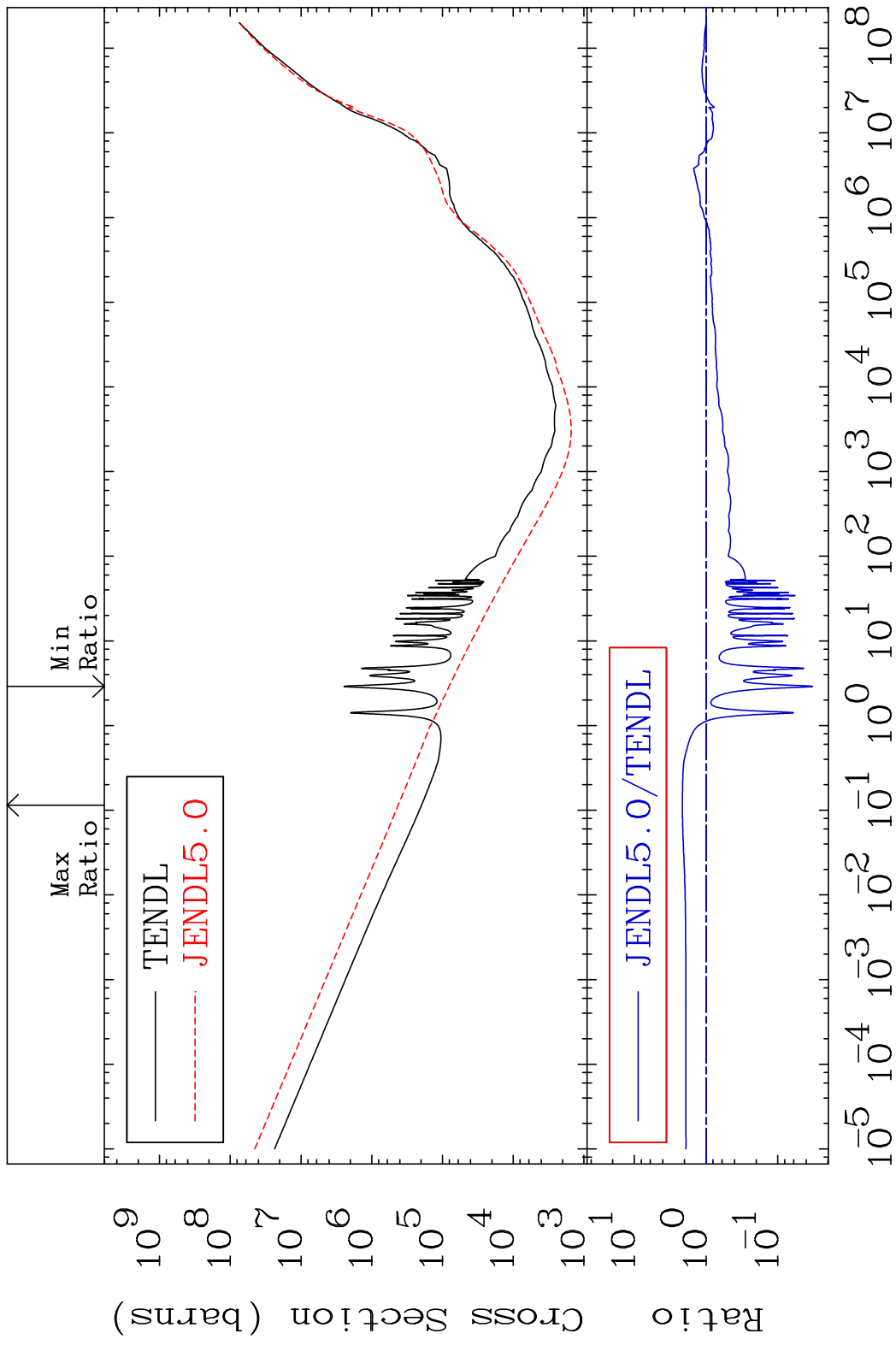
60 Incident Energy (eV) 61-Pm-146

MAT 6146 Total photon (eV-barns) 61-Pm-146
 Cross Section -99.46 To 91.55 %

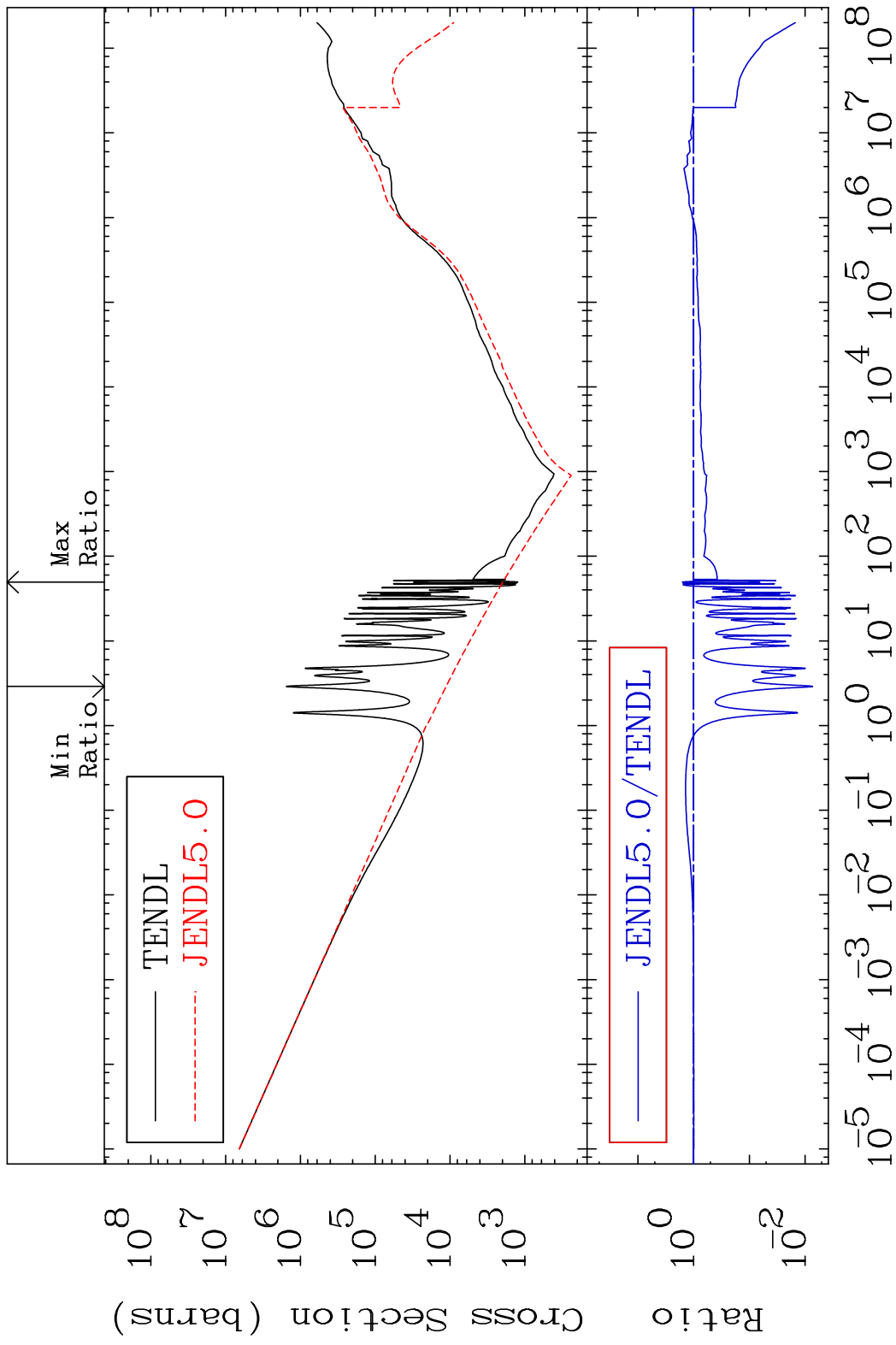


61 Incident Energy (eV) 61-Pm-146

MAT 6146 Total kinematic kerma (high limit) 61-Pm-146
 Cross Section -96.73 To 113.9 %



MAT 6146 Dpa total (eV-barns) 61-Pm-146
 Cross Section -99.27 To 59.59 %



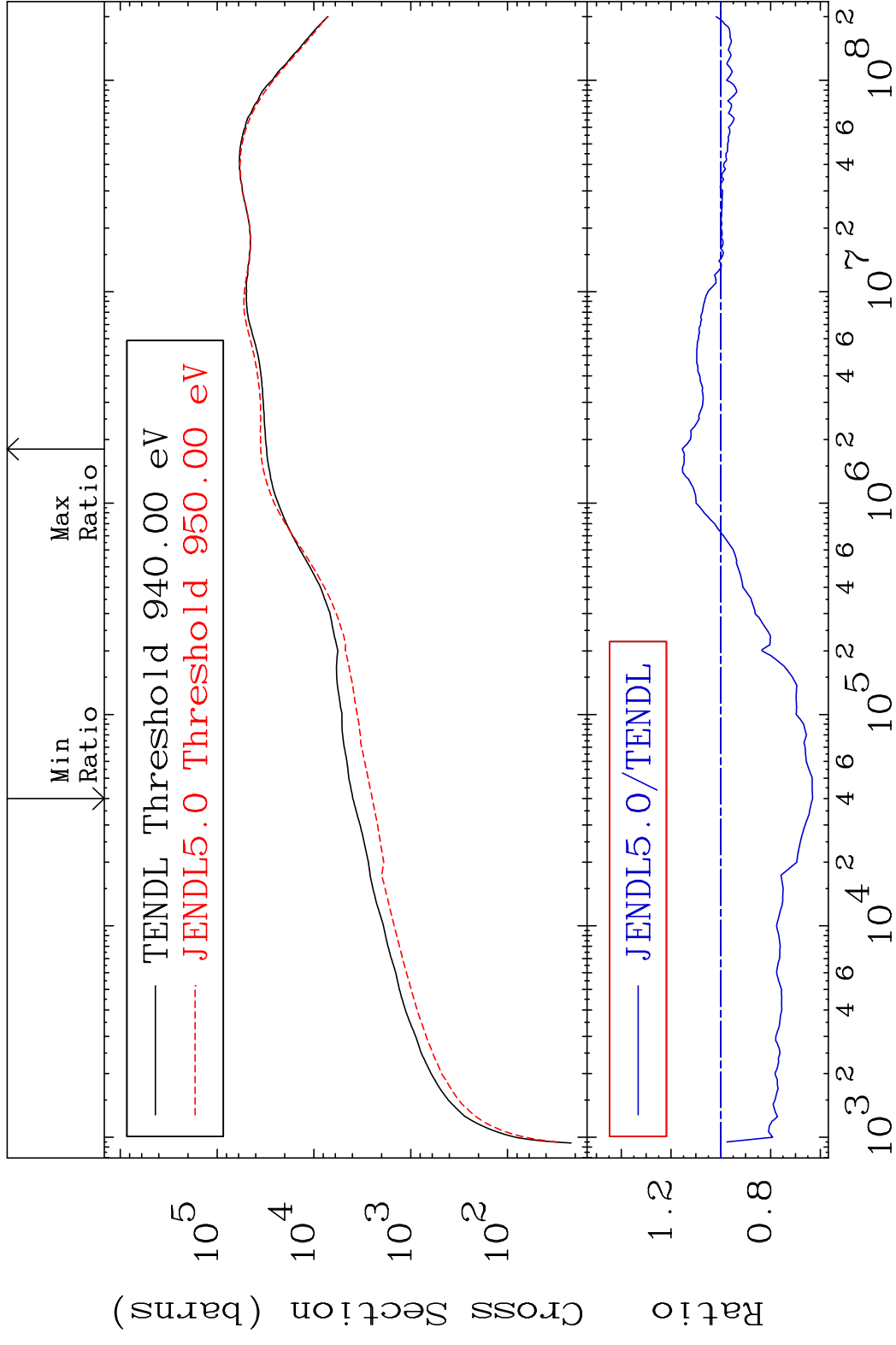
63 Incident Energy (eV) 61-Pm-146

MAT 6146

Dpa elastic (mt2)

61-Pm-146

Cross Section -36.90 To 15.46 %

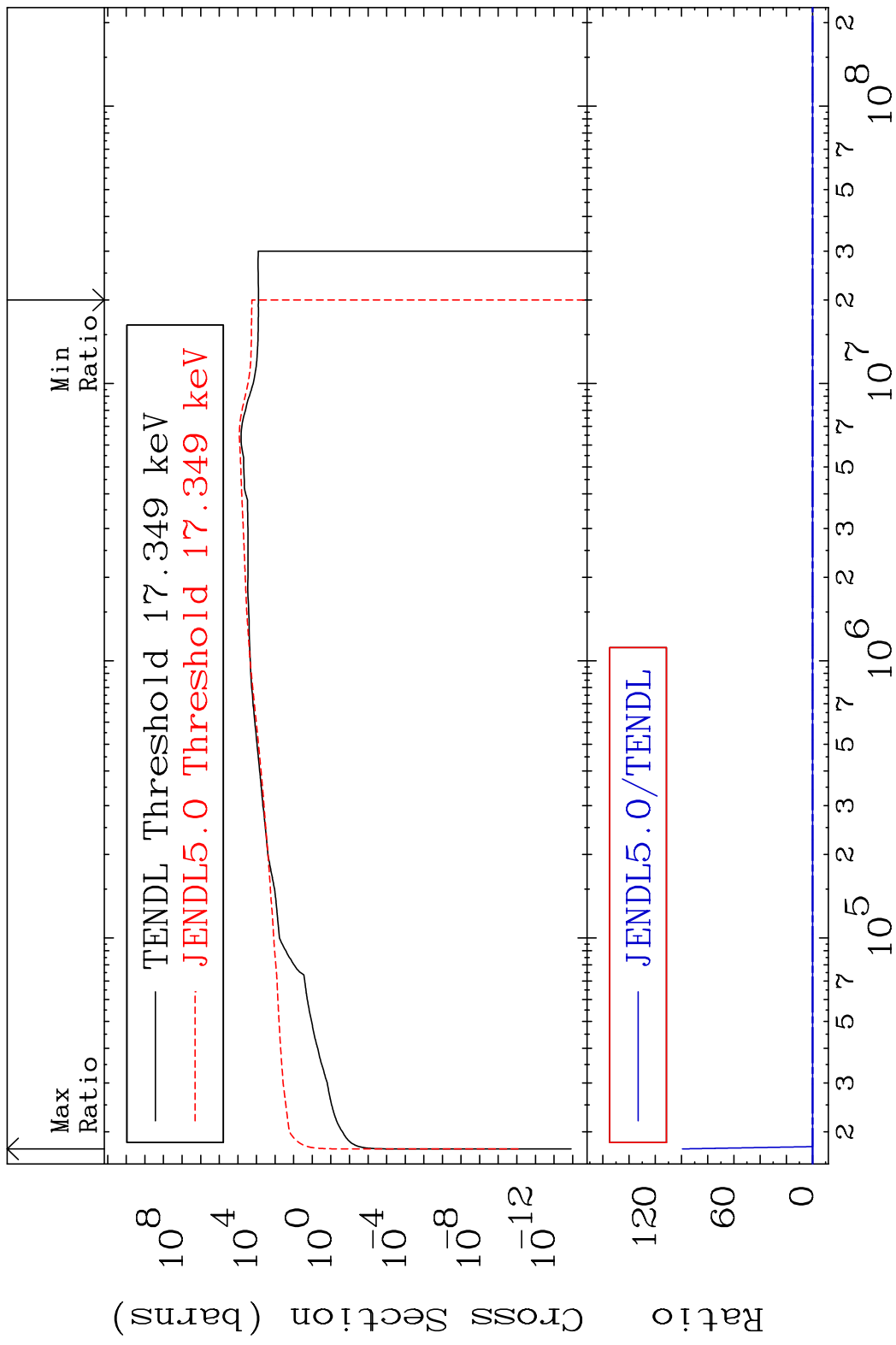


64

Incident Energy (eV)

61-Pm-146

MAT 6146 Dpa inelastic (mt51-91) 61-Pm-146
 Cross Section -100.0 To 9999. %



MAT 6146 Dpa disappearance (mt102 -120) 61-Pm-146
 Cross Section -100.0 To 71.03 %

