

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

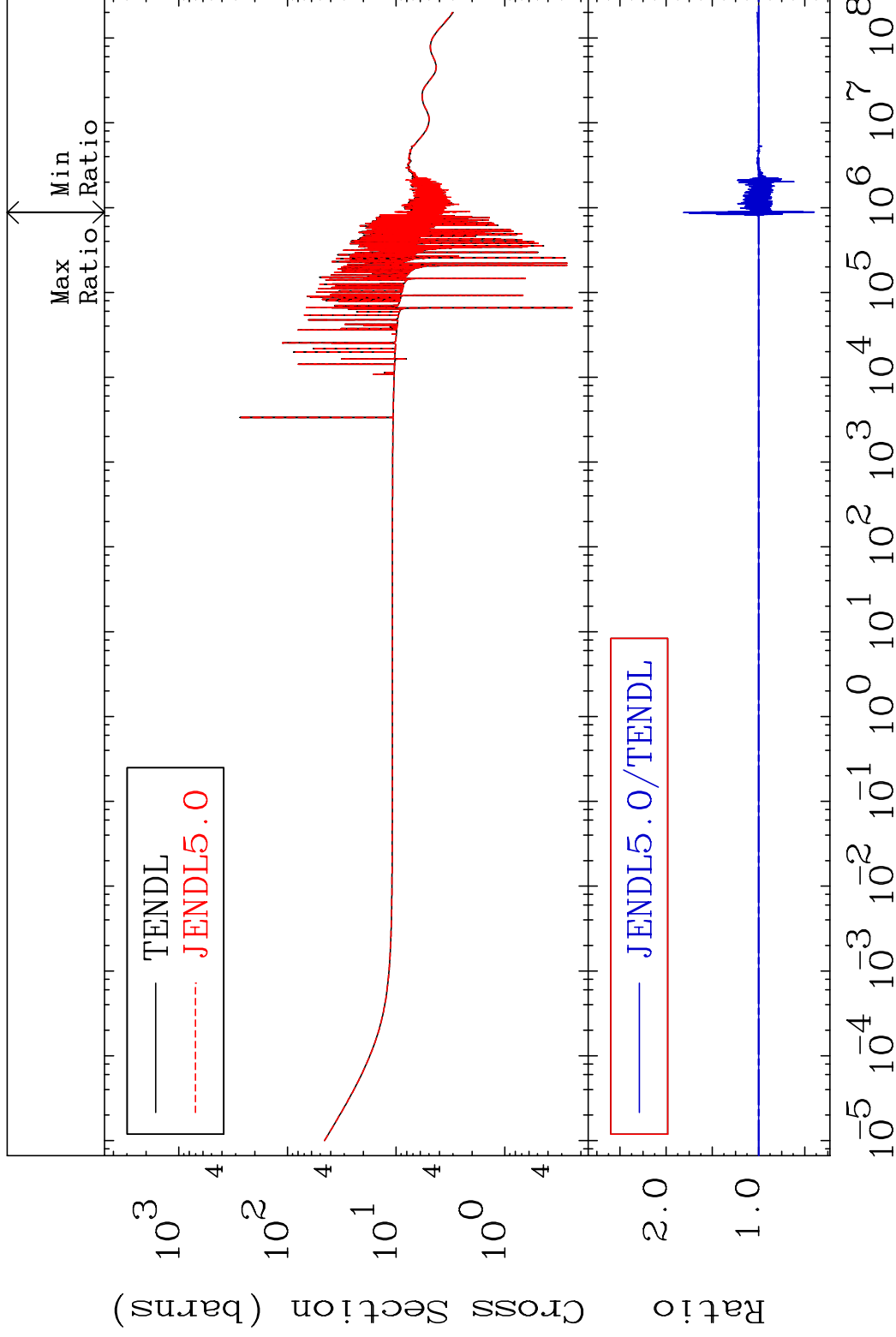
MAT 8231

Total

82-Pb-206

Cross Section

-60.11 To 81.07 %



1

Incident Energy (eV)

82-Pb-206

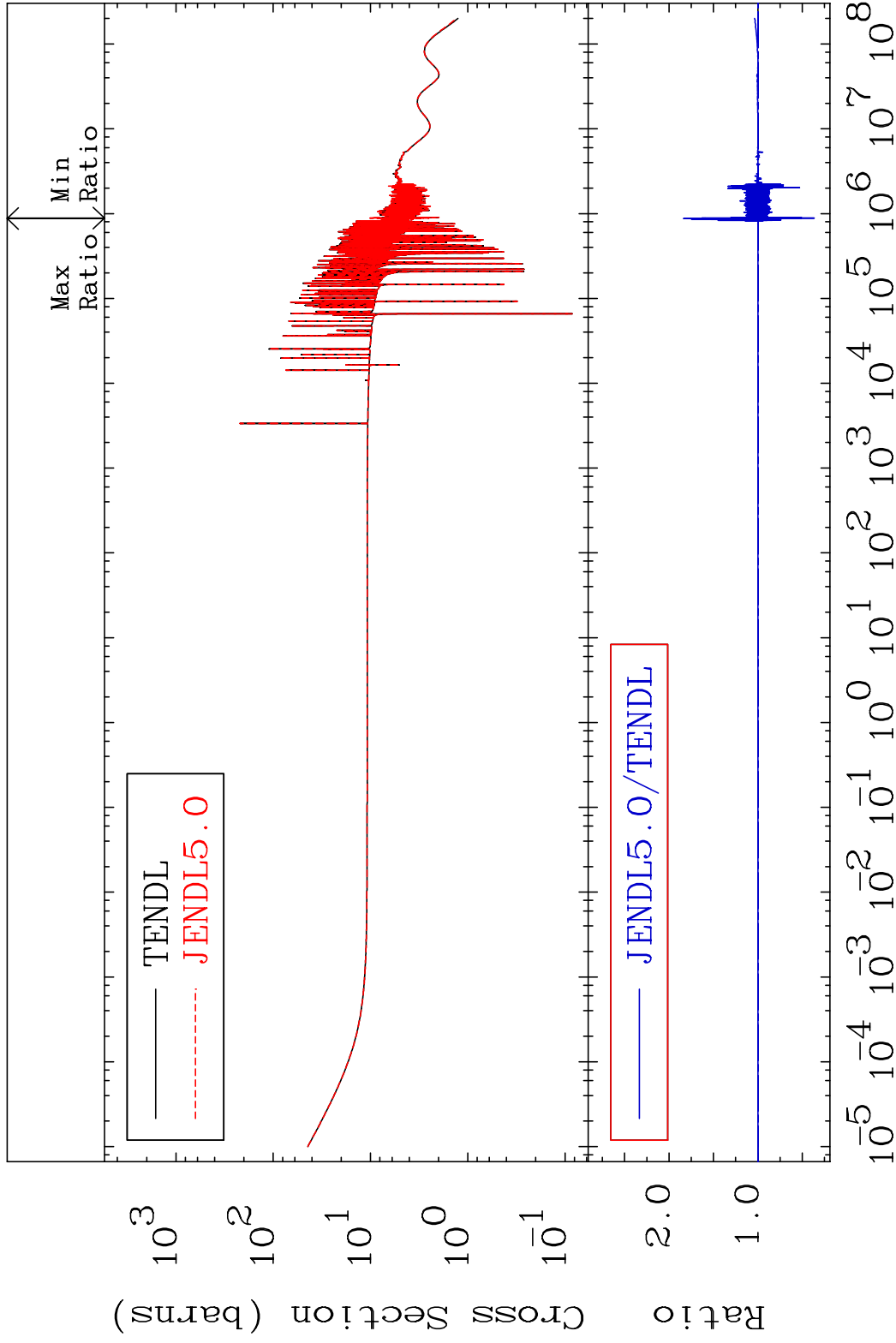
MAT 8231

Elastic

82-Pb-206

Cross Section

-63.29 To 83.53 %



2

Incident Energy (eV)

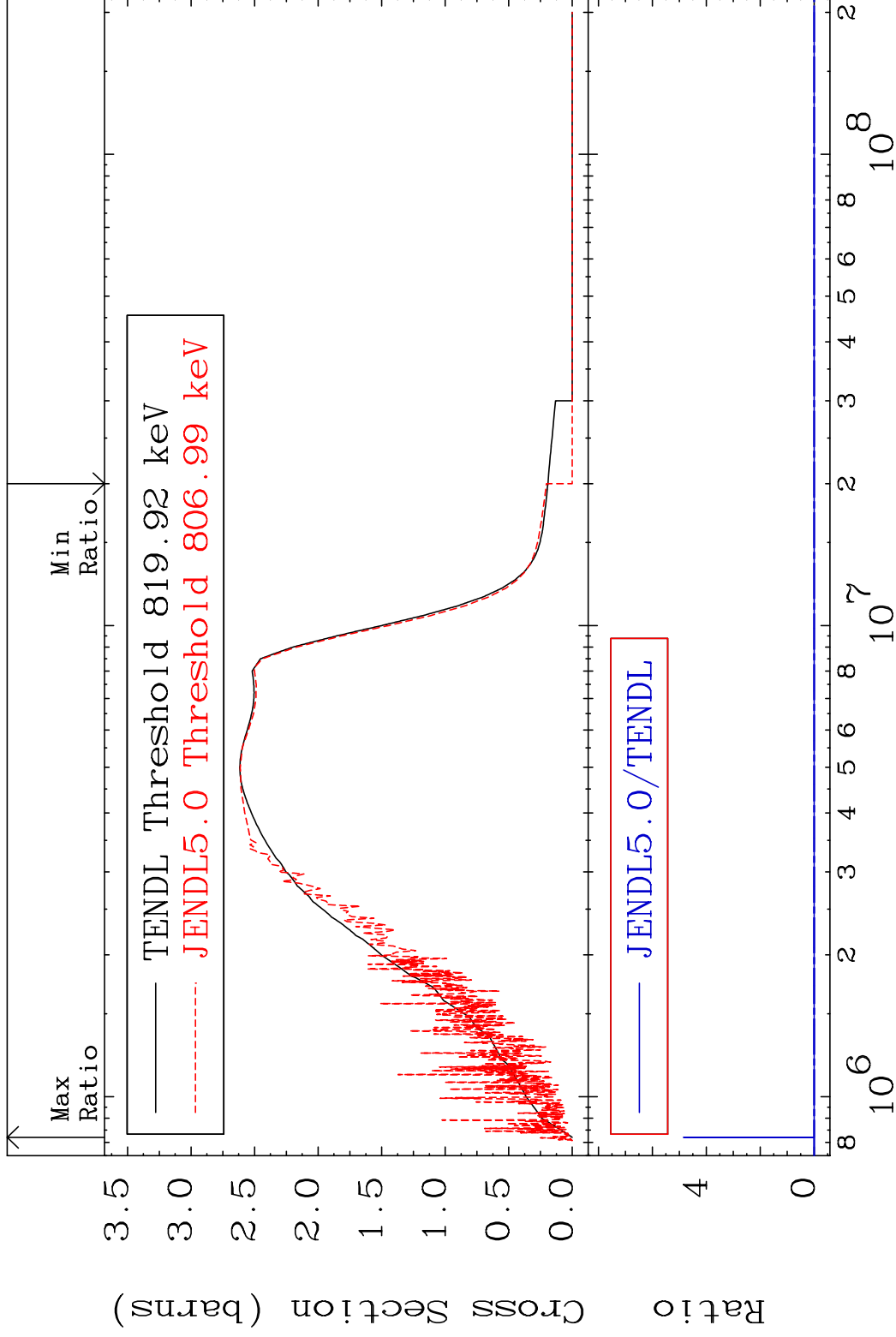
82-Pb-206

MAT 8231

Inelastic

82-Pb-206

Cross Section -100.0 To 9999. %



3

Incident Energy (eV)

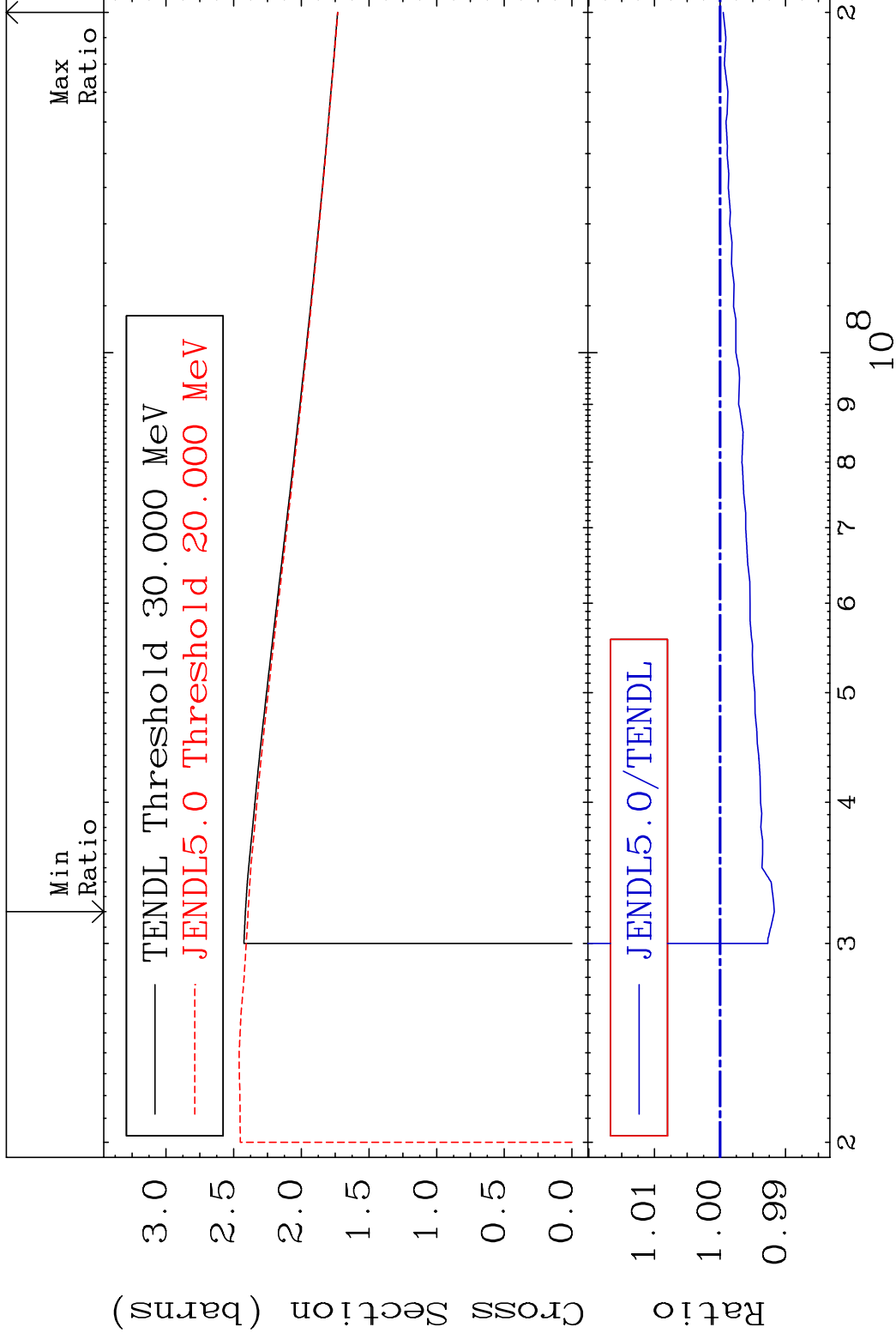
82-Pb-206

MAT 8231

(n, remainder)

82-Pb-206

Cross Section -0.828 To -0.049%

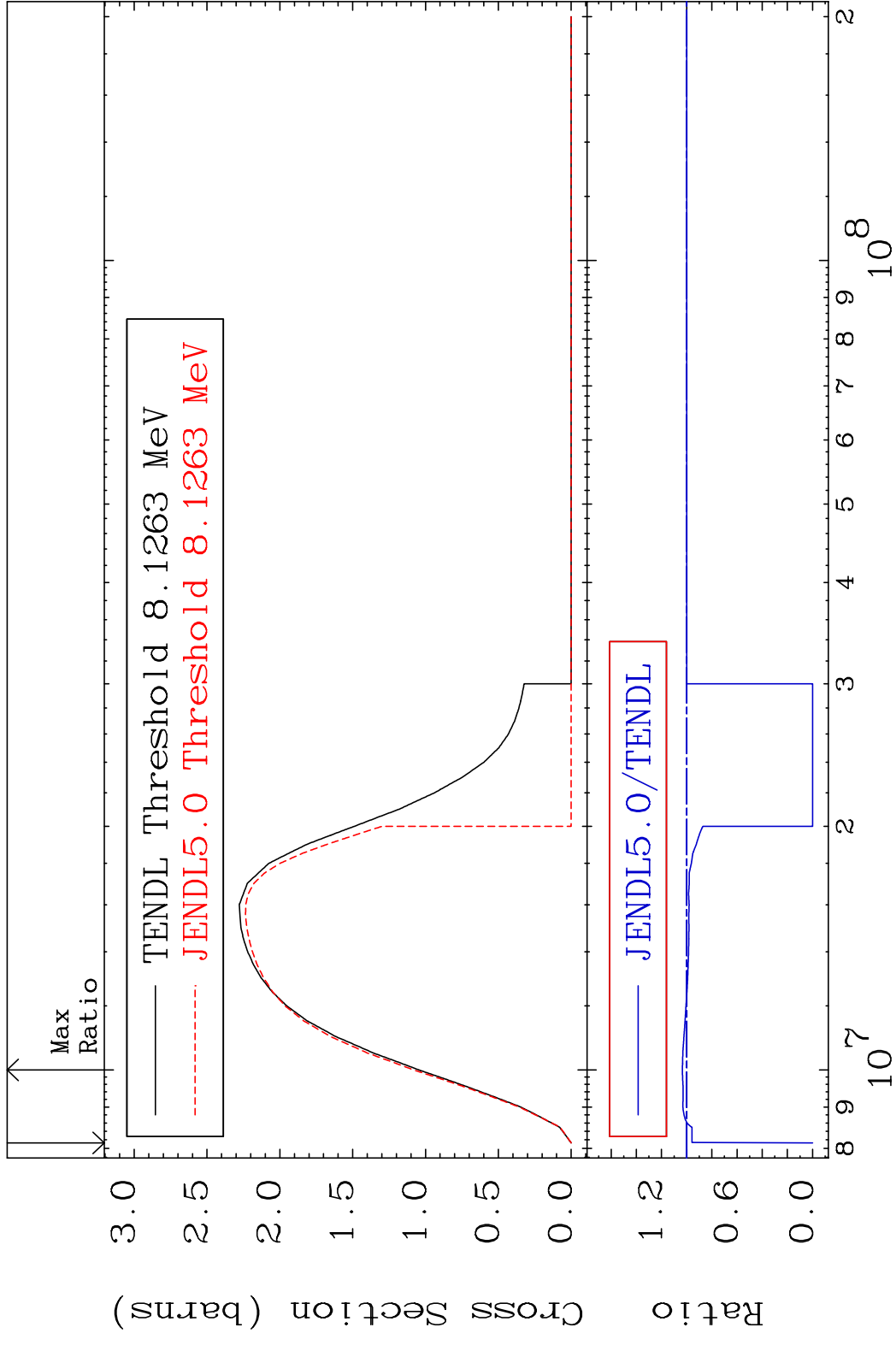


4

Incident Energy (eV)

82-Pb-206

MAT 8231 (n,2n) 82-Pb-206
 Cross Section -100.0 To 3.446 %



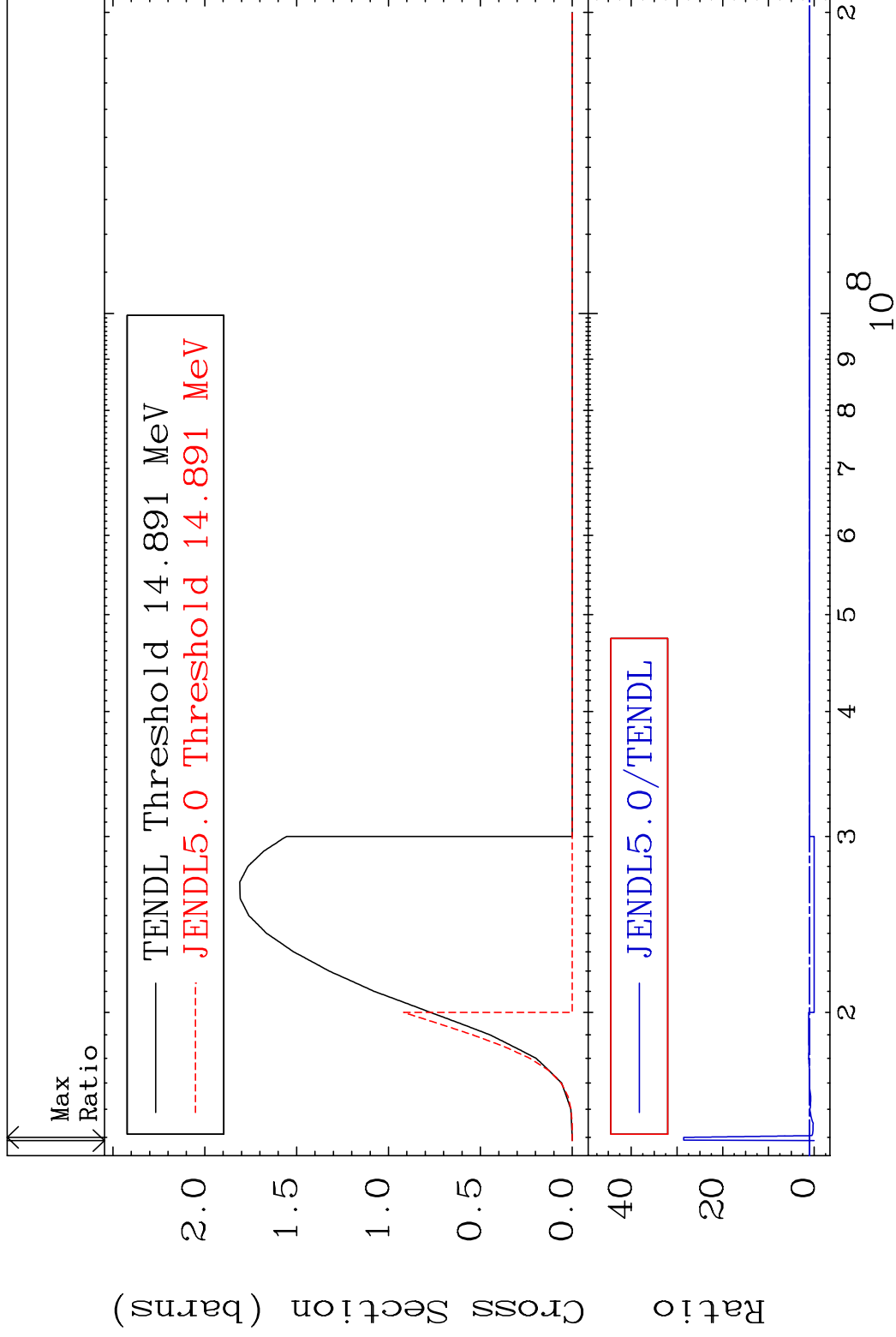
5 Incident Energy (eV) 82-Pb-206

MAT 8231

(n,3n)

82-Pb-206

Cross Section -100.0 To 2754. %



6

Incident Energy (eV)

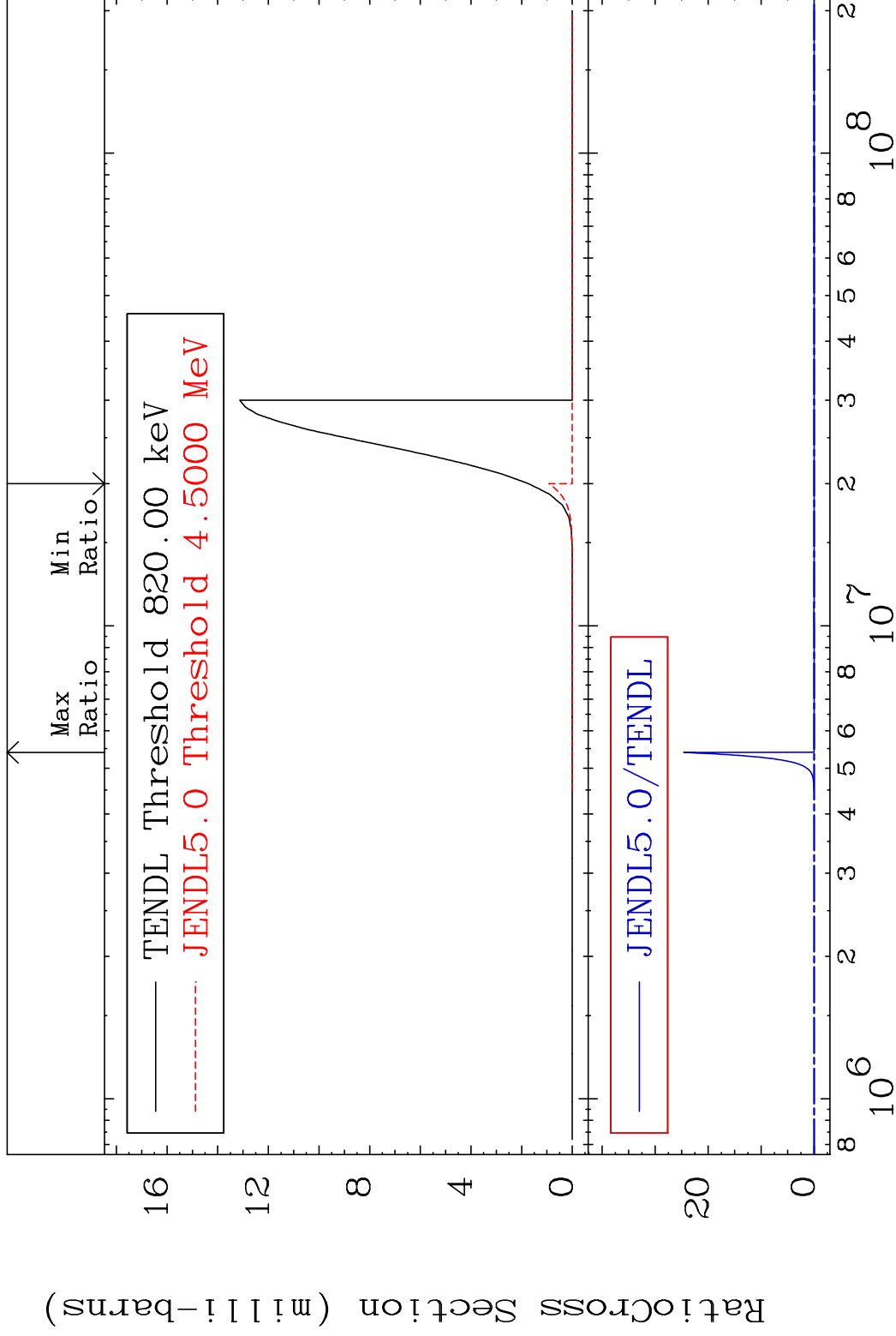
82-Pb-206

MAT 8231

82-Pb-206

(n, n') α

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

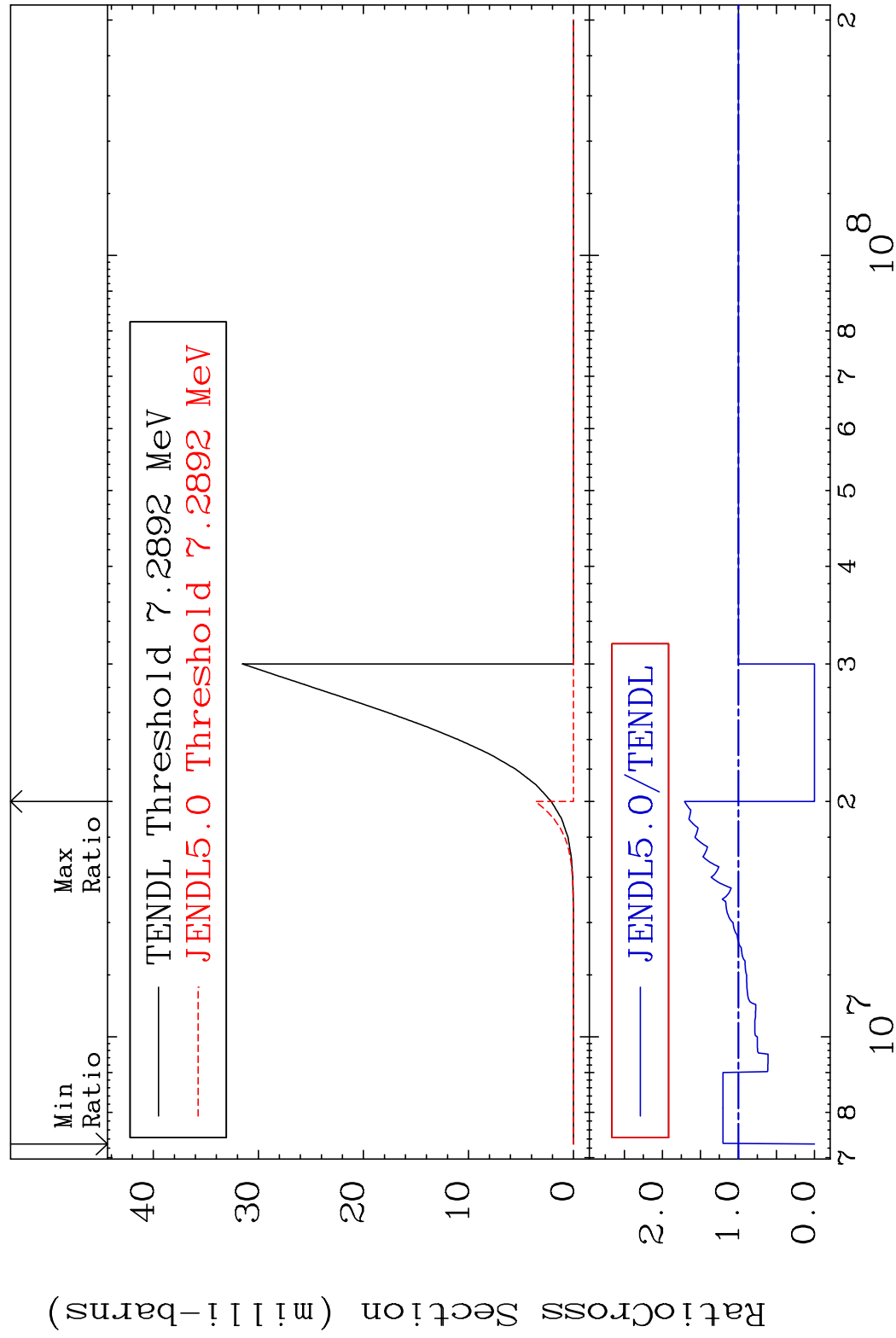
82-Pb-206

MAT 8231

(n, n') p

82-Pb-206

Cross Section -100.0 To 70.95 %



8

Incident Energy (eV)

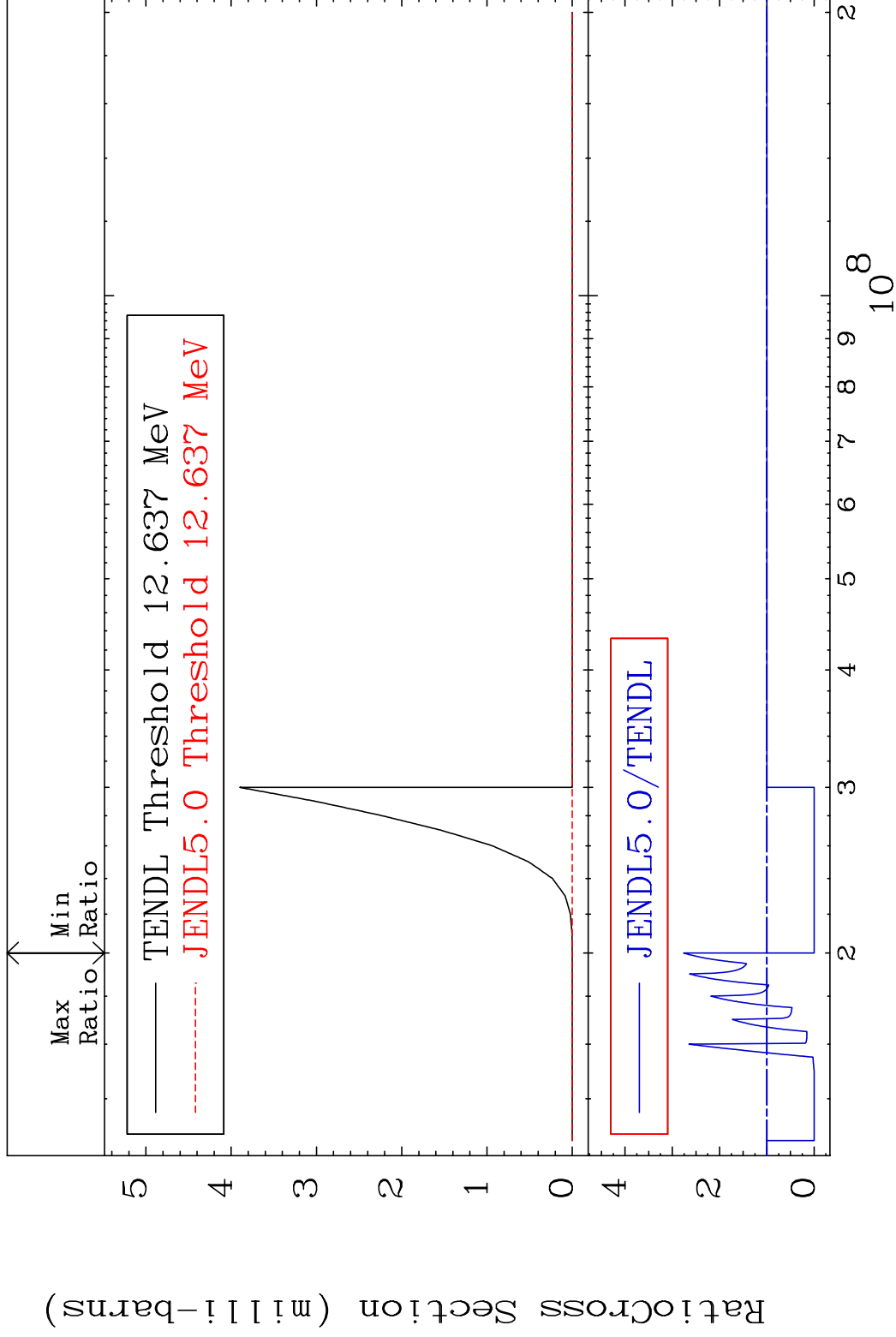
82-Pb-206

MAT 8231

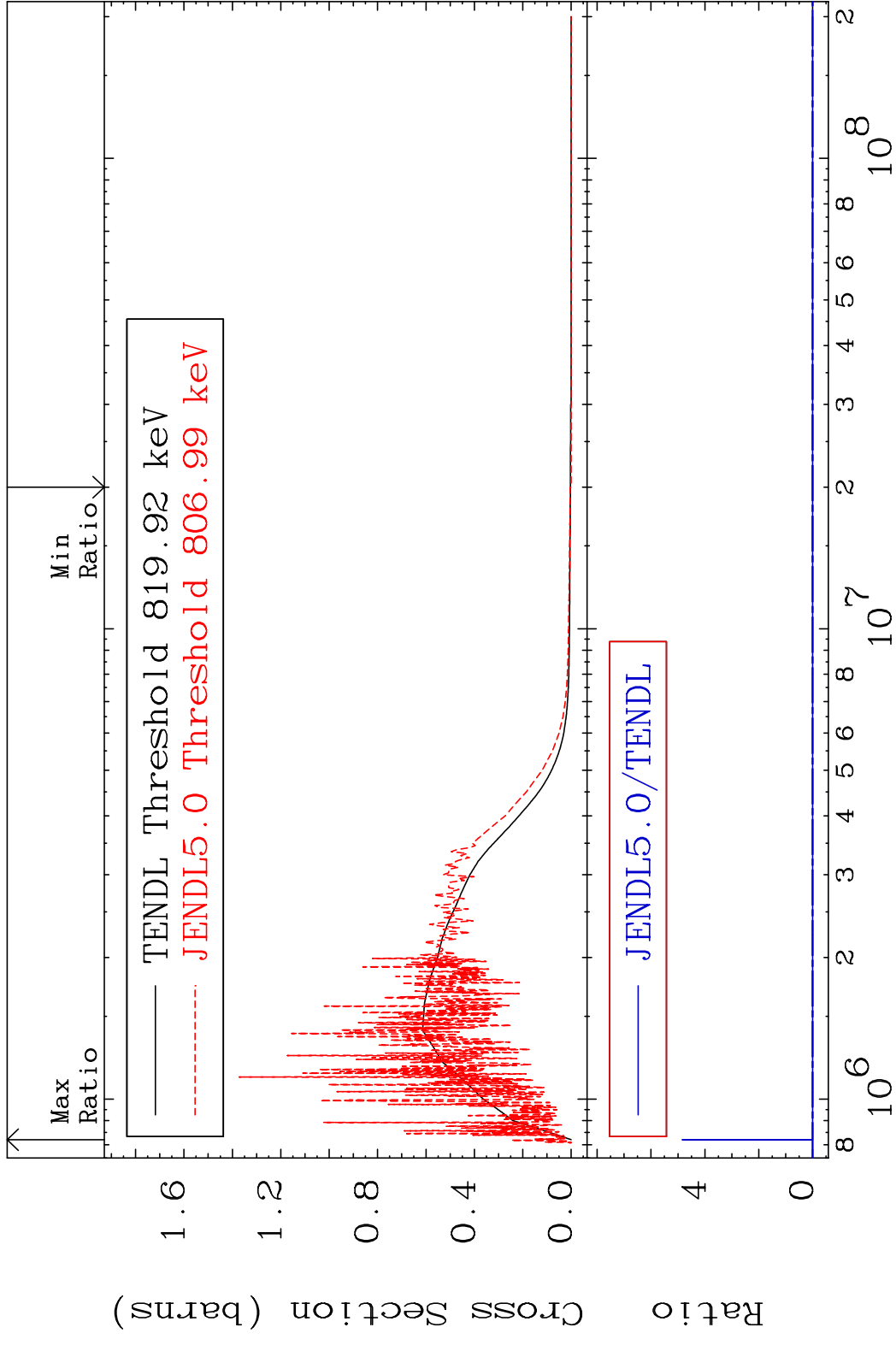
(n, n') d

82-Pb-206

Cross Section -100.0 To 176.0 %

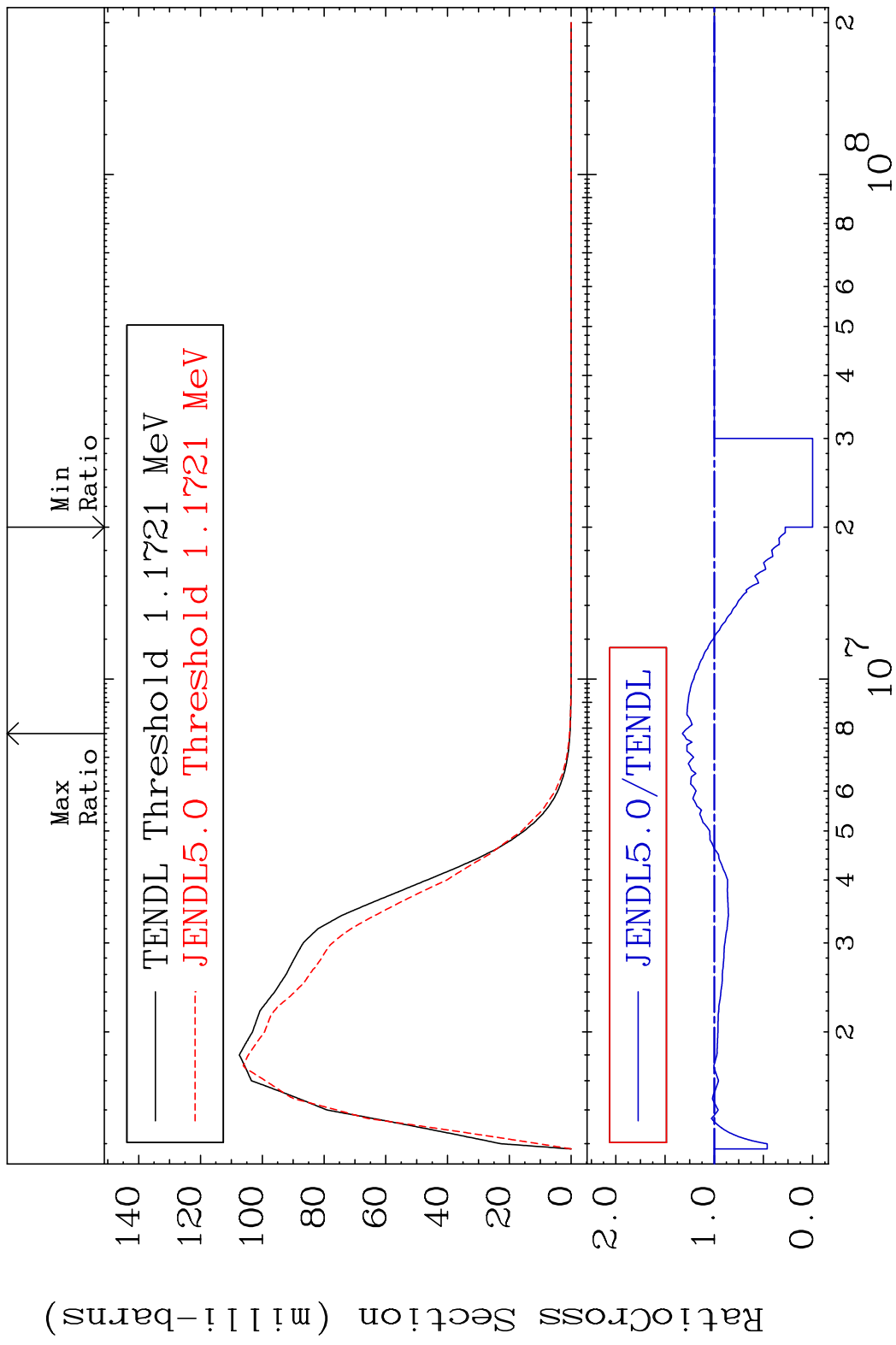


MAT 8231 MT= 51 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %

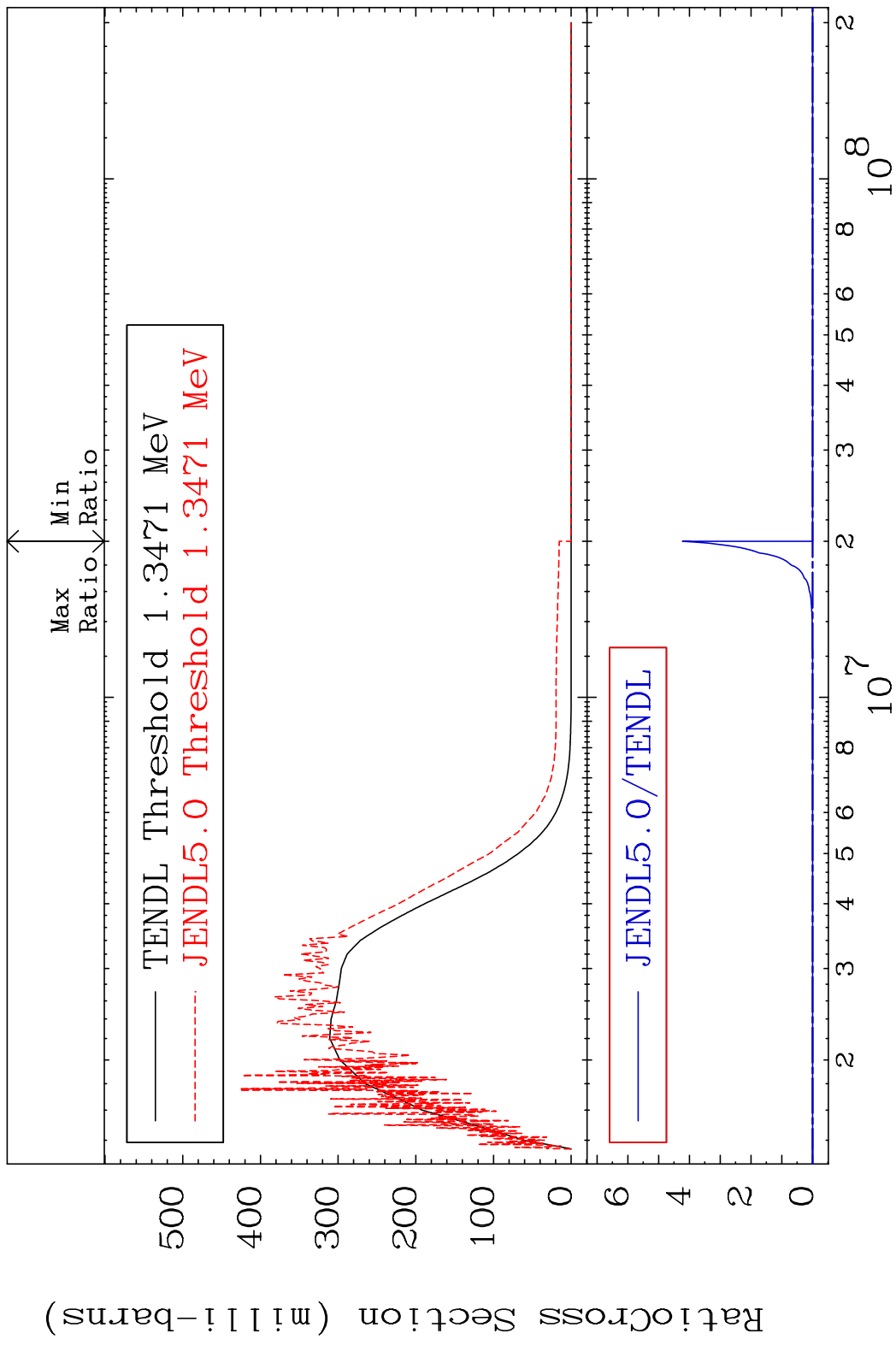


10 8 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8 10 82-Pb-206

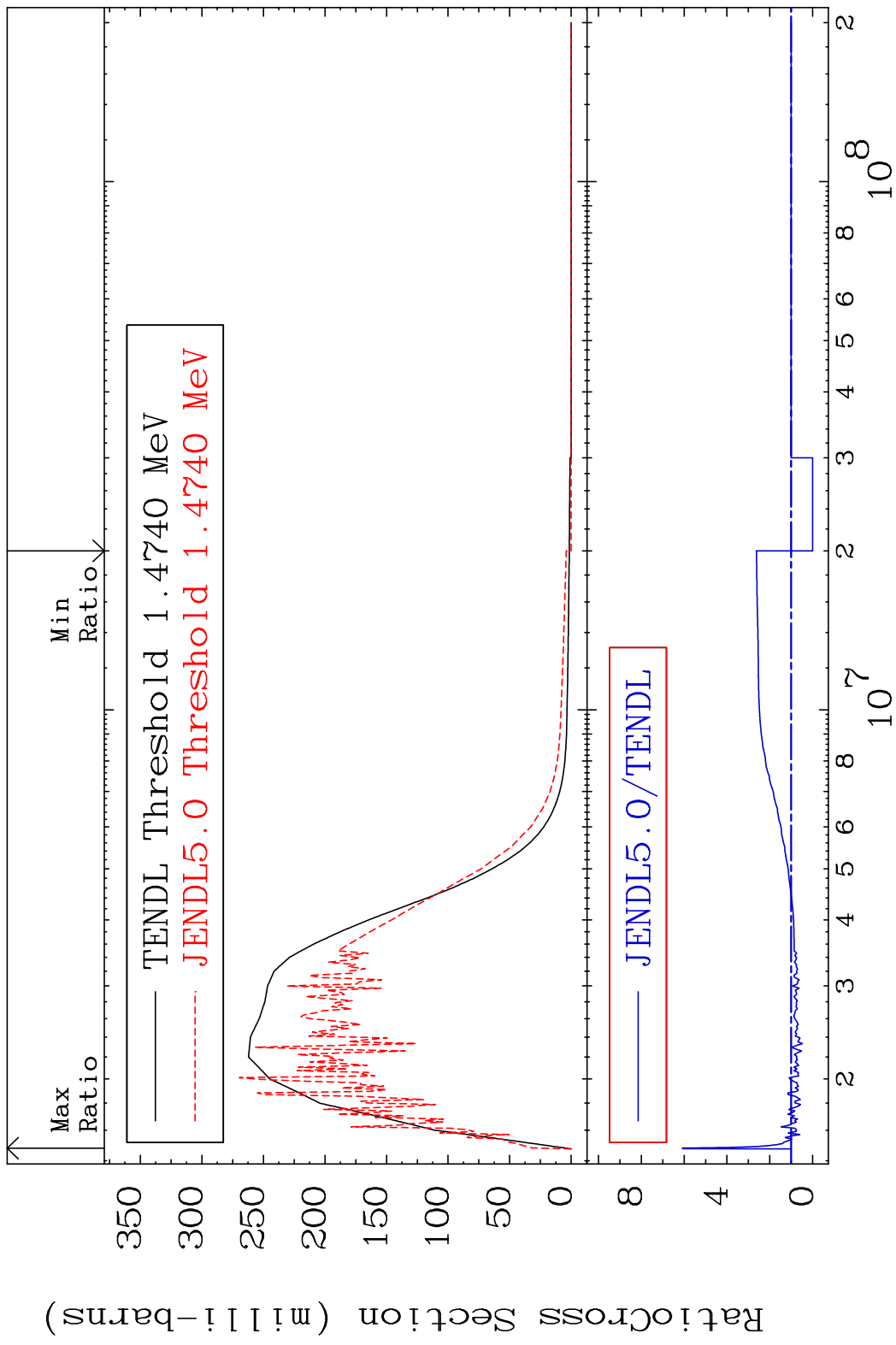
MAT 8231 MT= 52 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 32.41 %



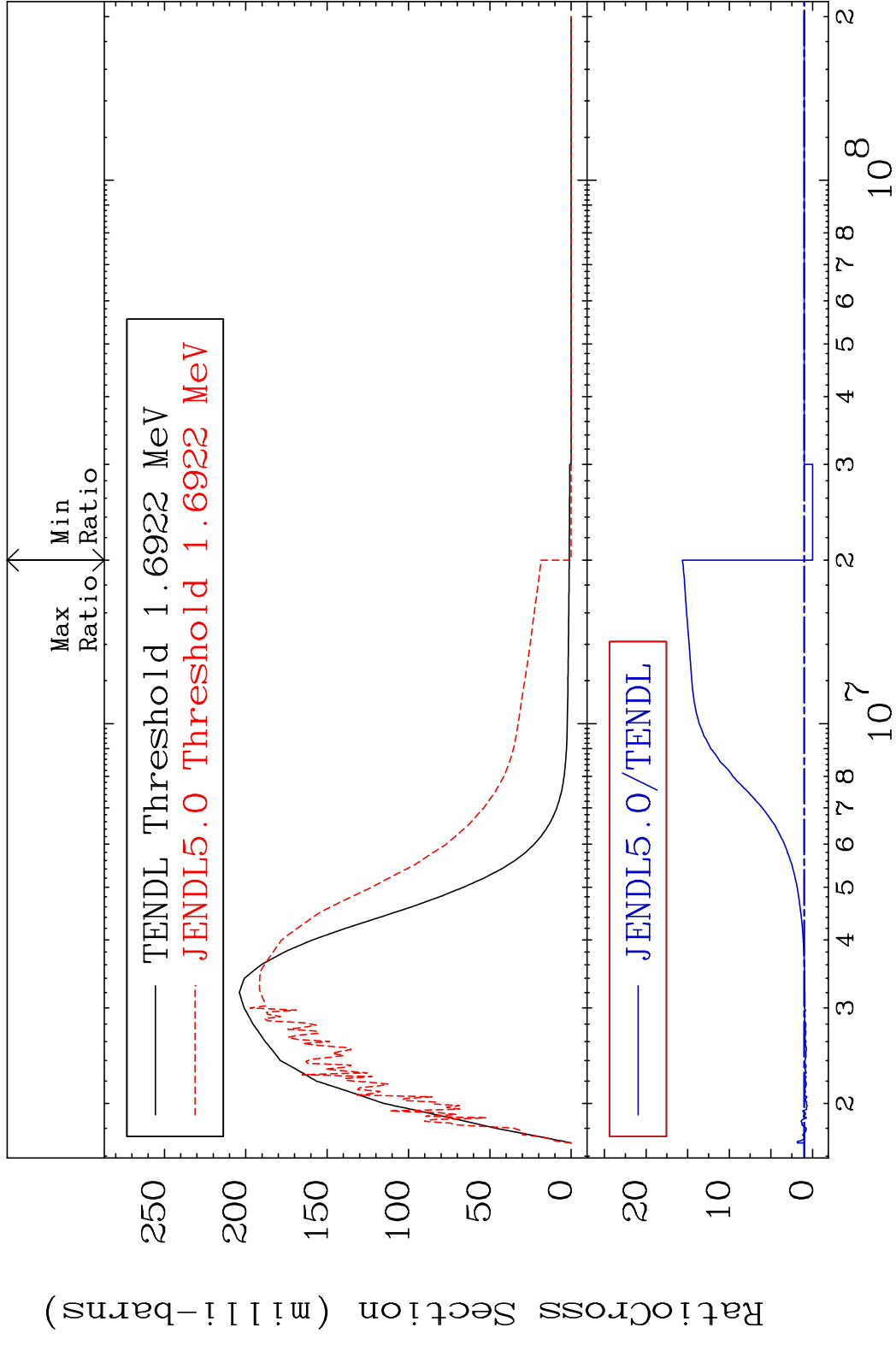
MAT 8231 MT= 53 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



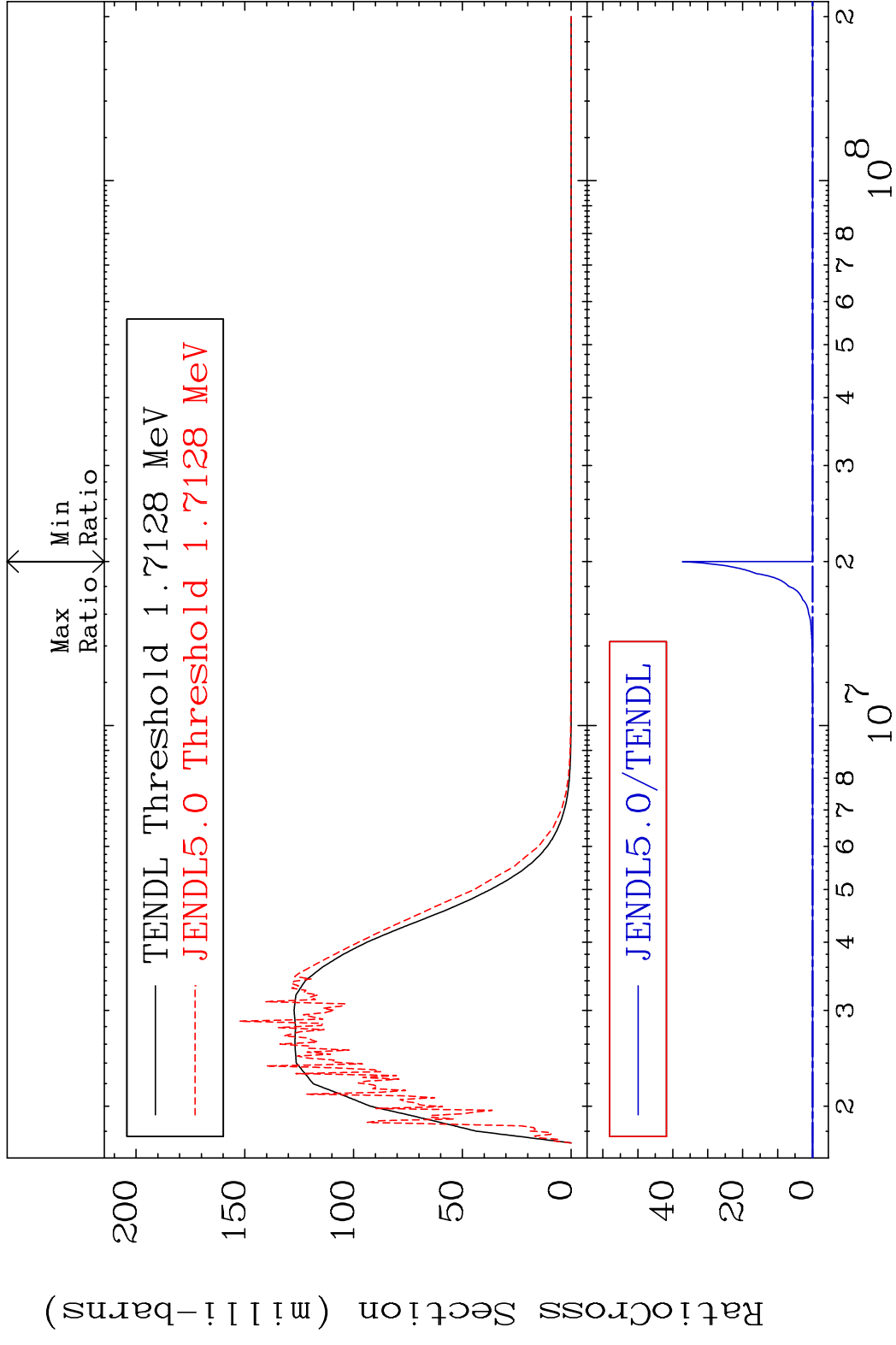
MAT 8231 MT= 54 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 508.3 %



MAT 8231 MT= 55 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 1464. %

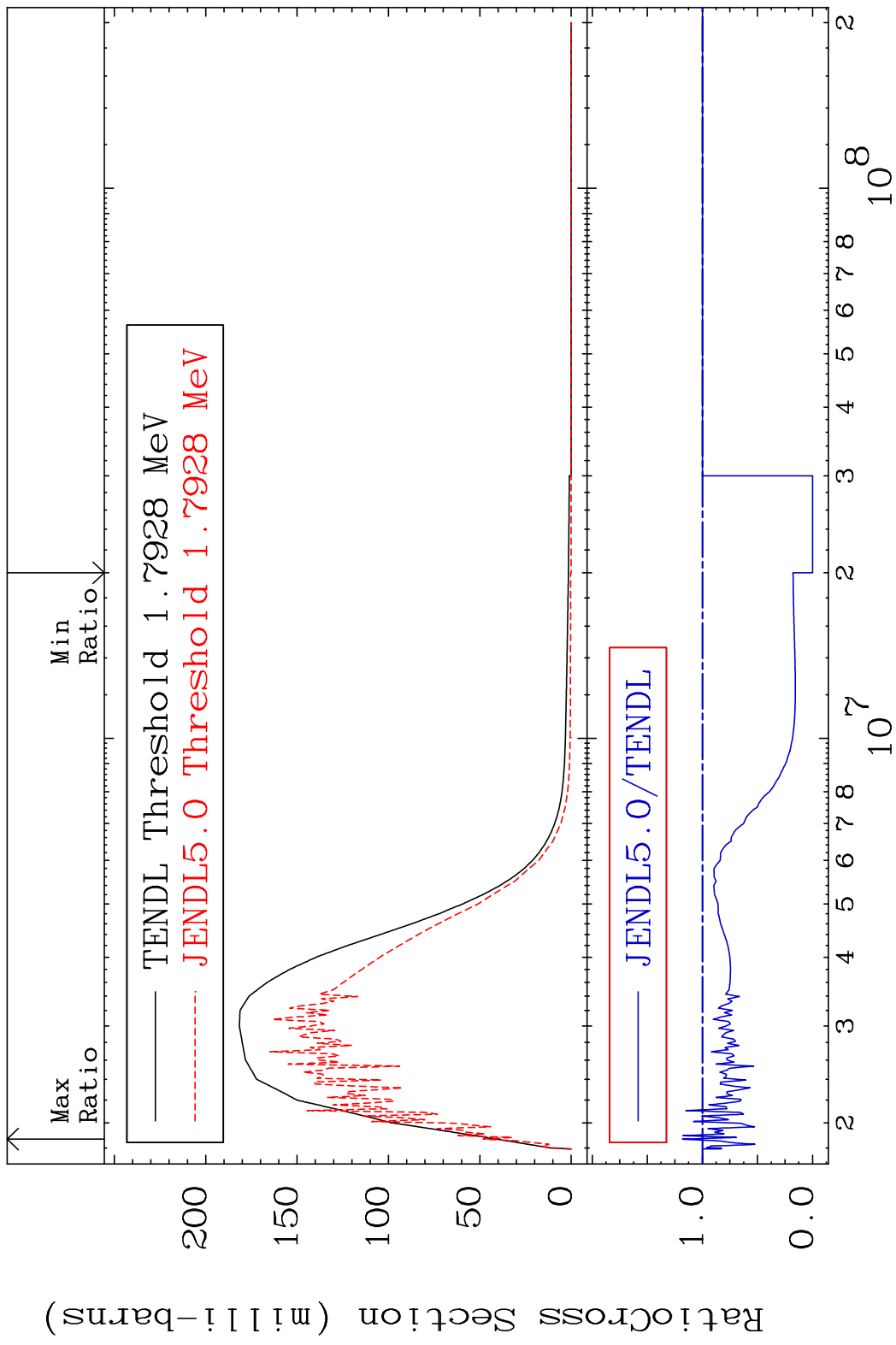


MAT 8231 MT= 56 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



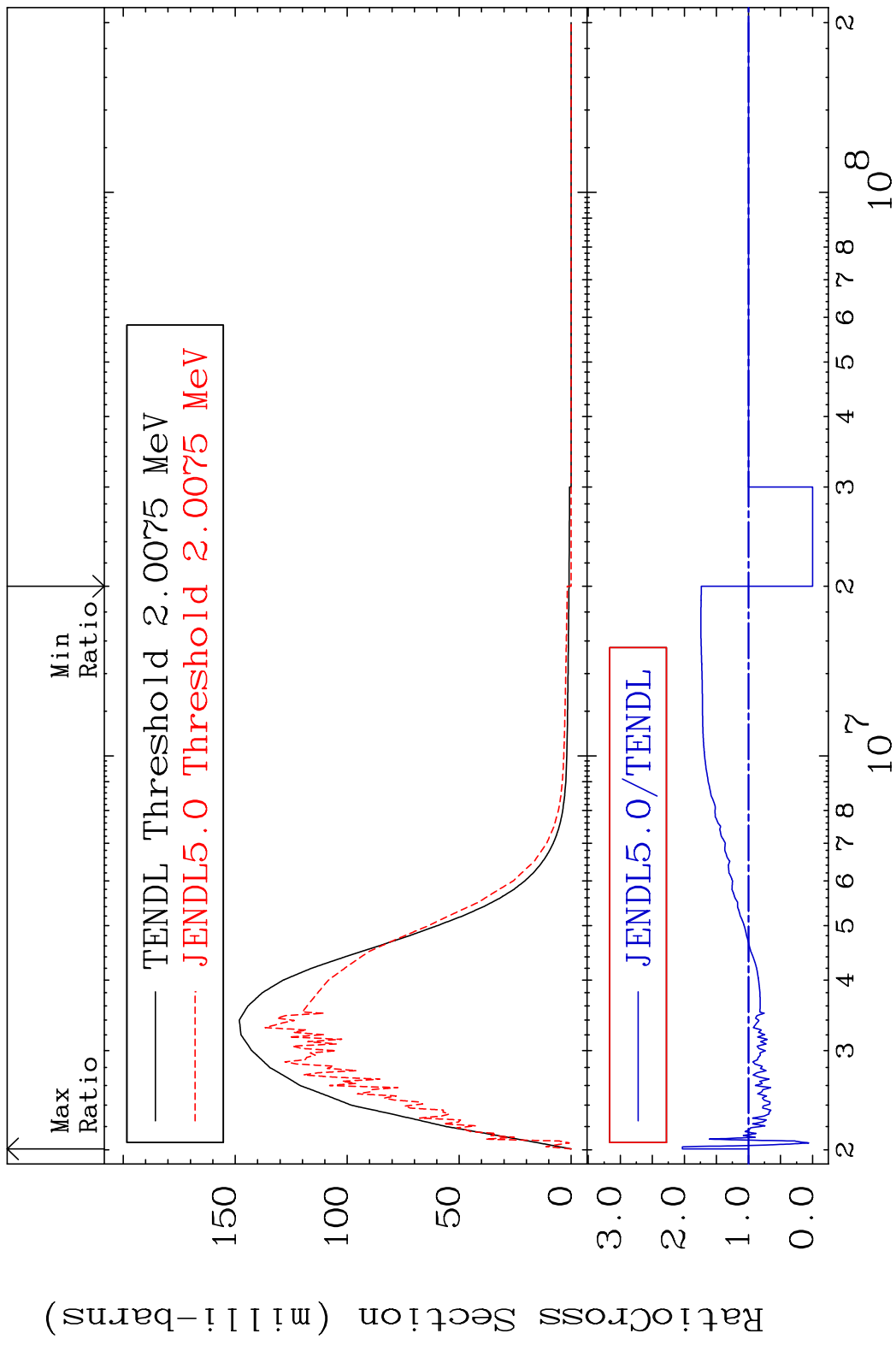
15 Incident Energy (eV) 82-Pb-206

MAT 8231 MT= 57 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 18.17 %

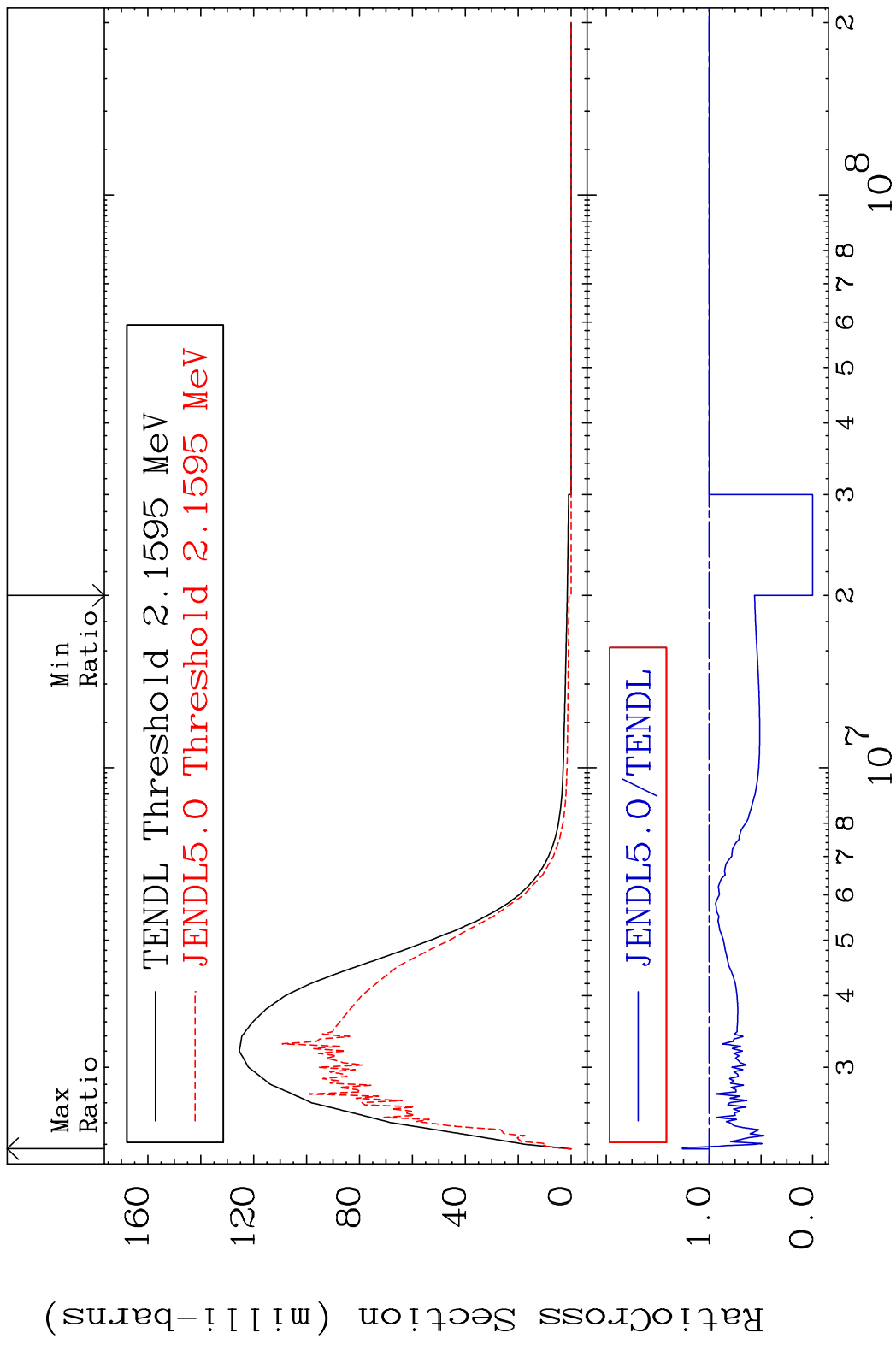


16 Incident Energy (eV) 82-Pb-206

MAT 8231 MT= 58 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 103.2 %

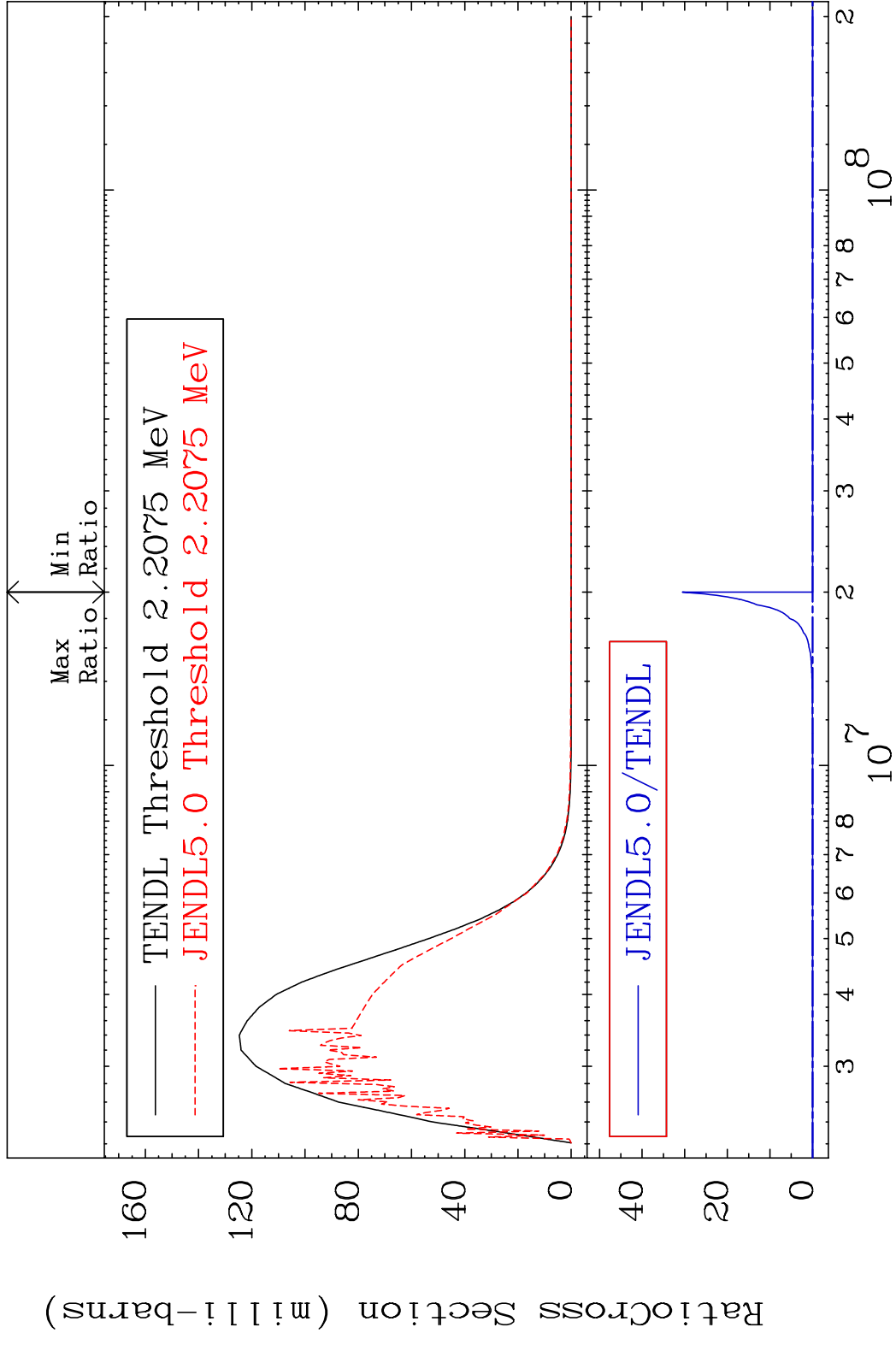


MAT 8231 MT= 59 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 26.21 %

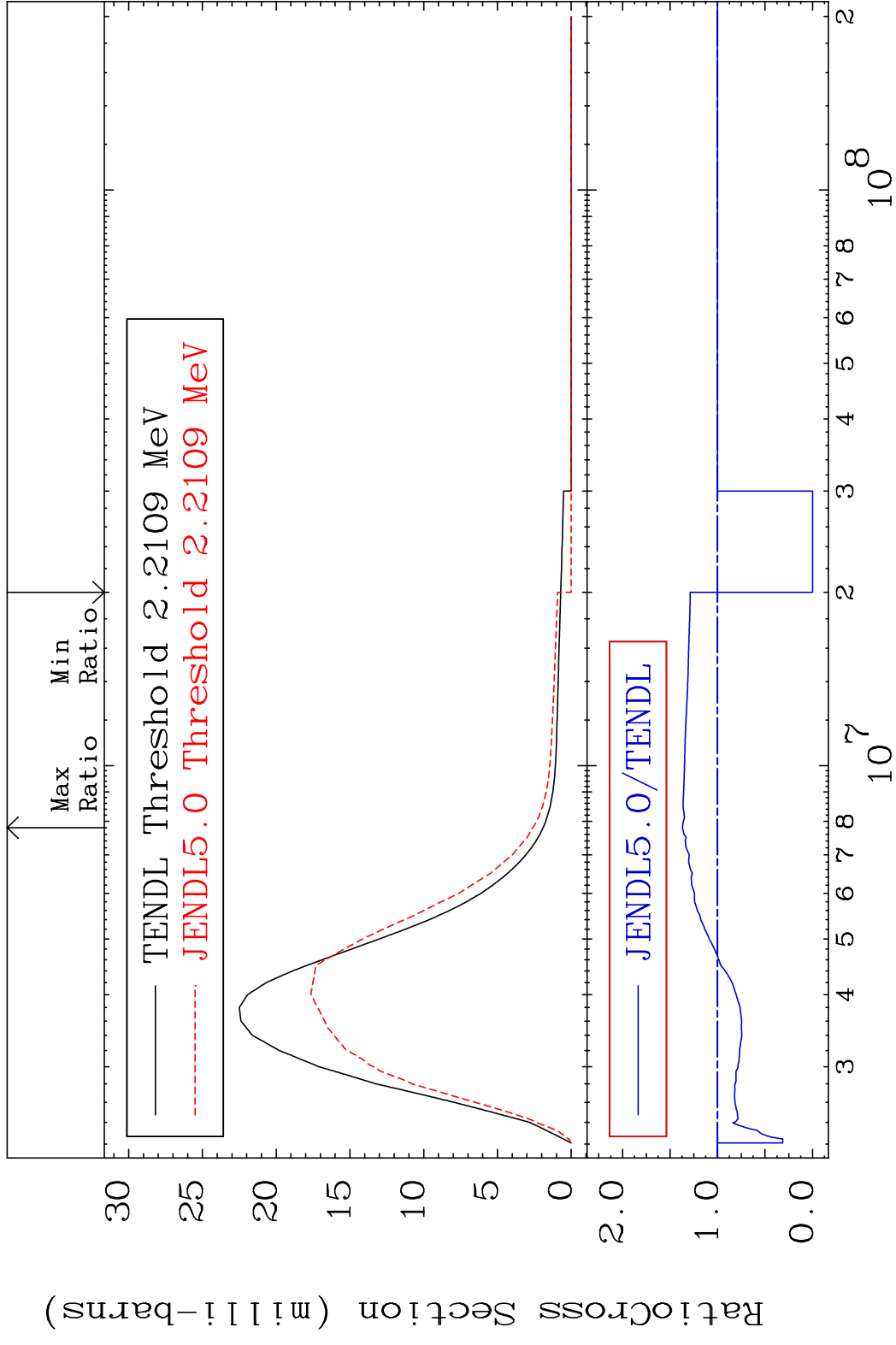


18 82-Pb-206

MAT 8231 MT= 60 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %

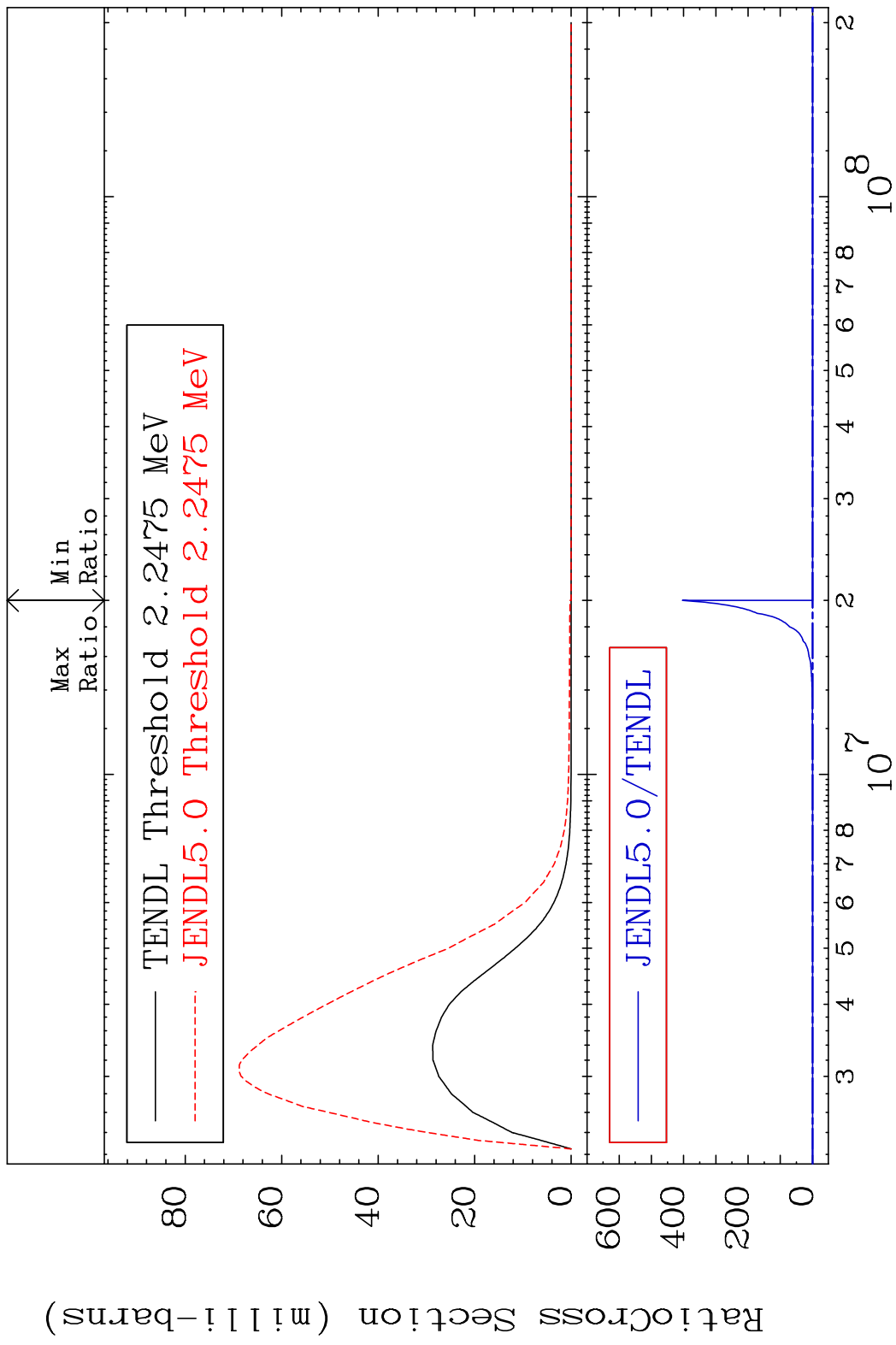


MAT 8231 MT= 61 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 37.05 %



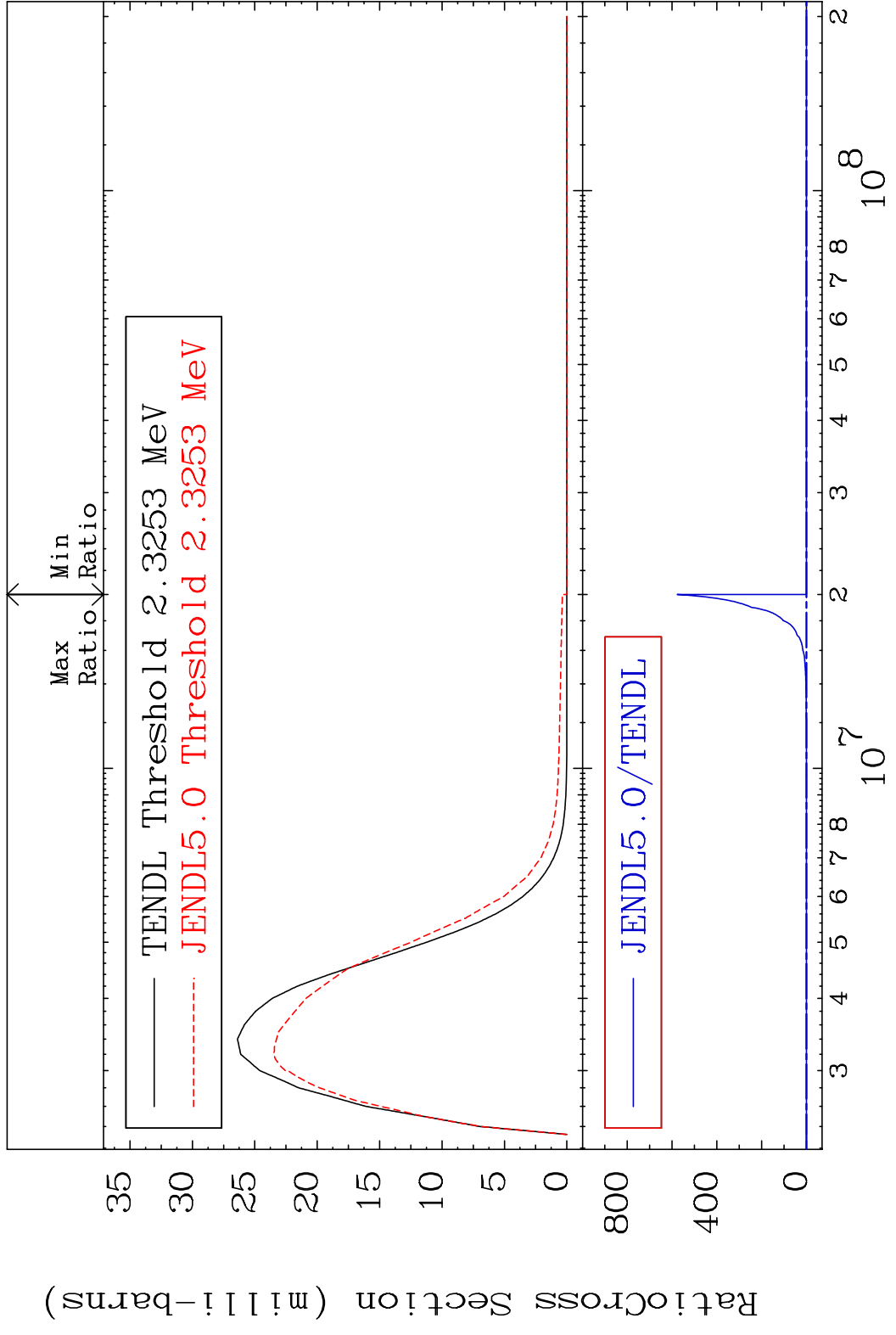
20 82-Pb-206

MAT 8231 MT= 62 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %

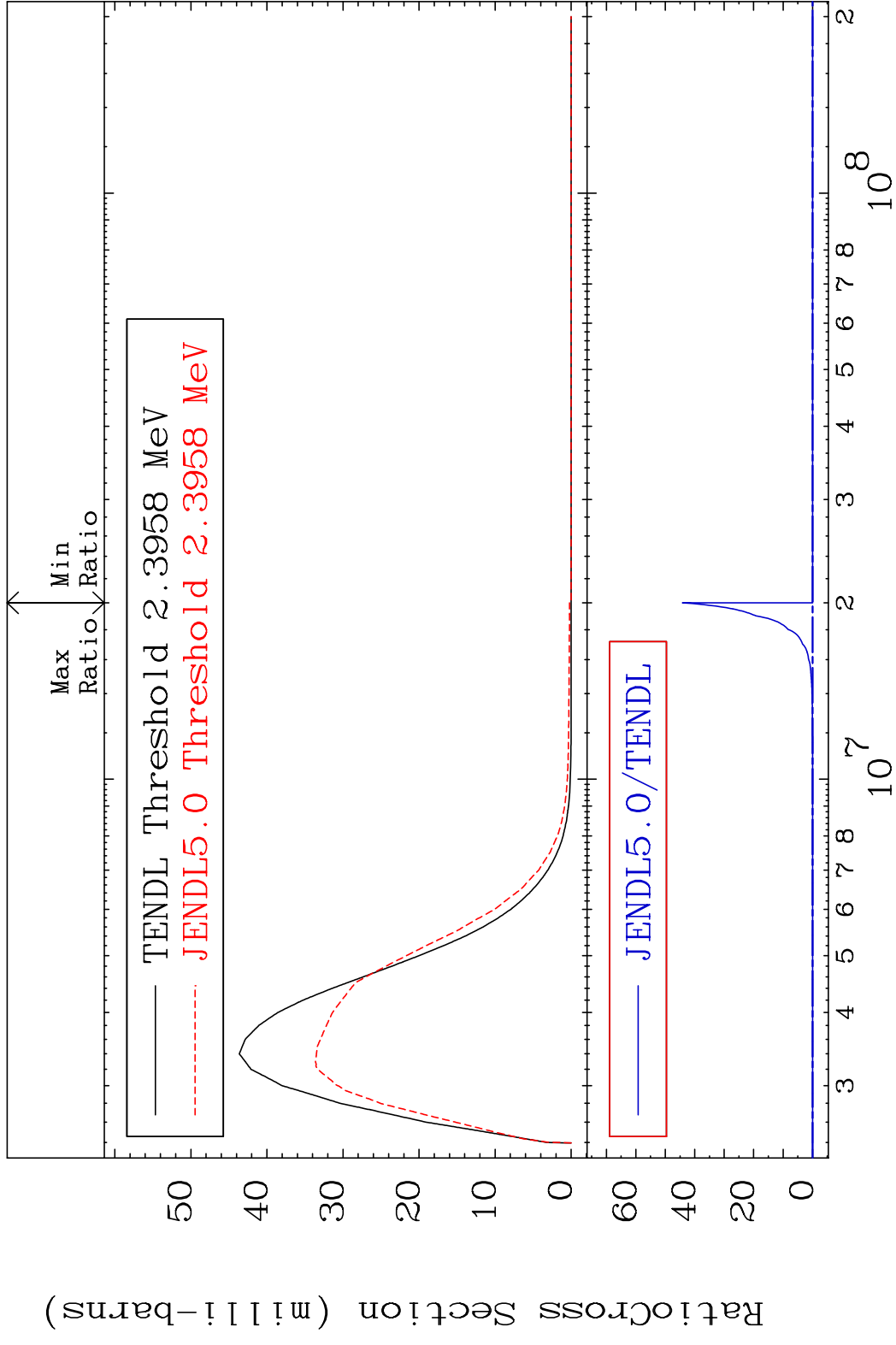


21 Incident Energy (eV) 82-Pb-206

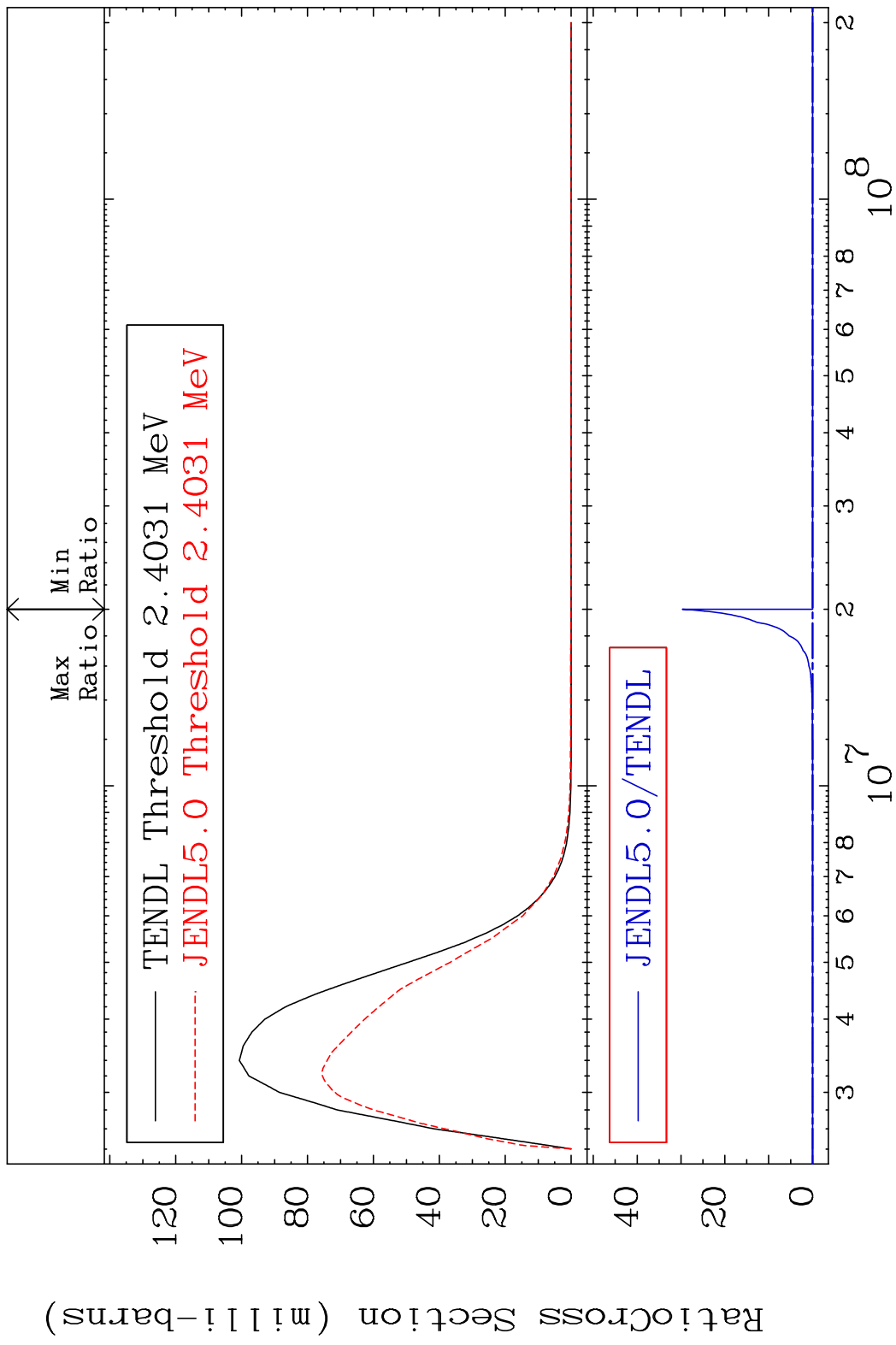
MAT 8231 MT= 63 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



MAT 8231 MT= 64 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %

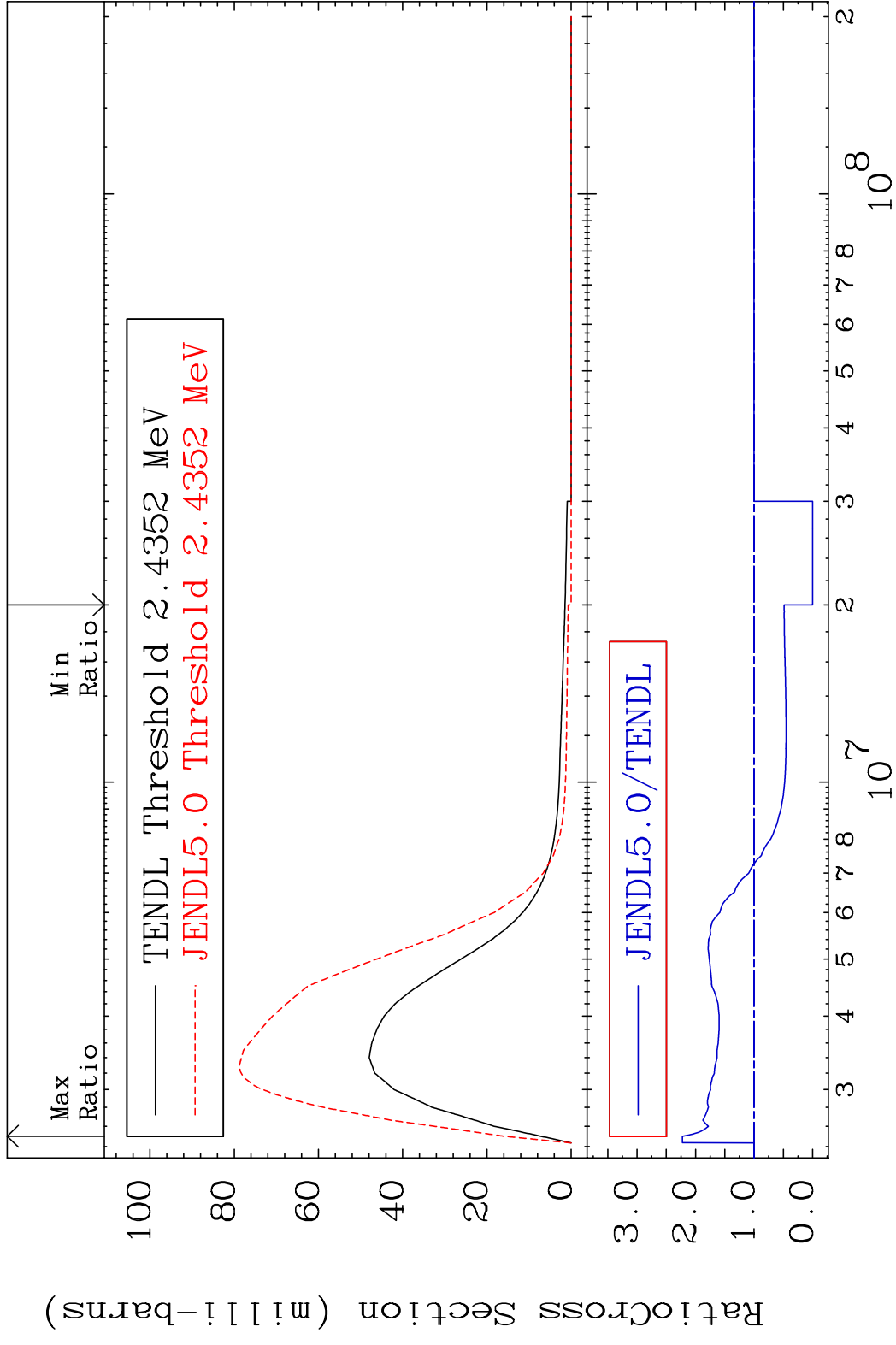


MAT 8231 MT= 65 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %

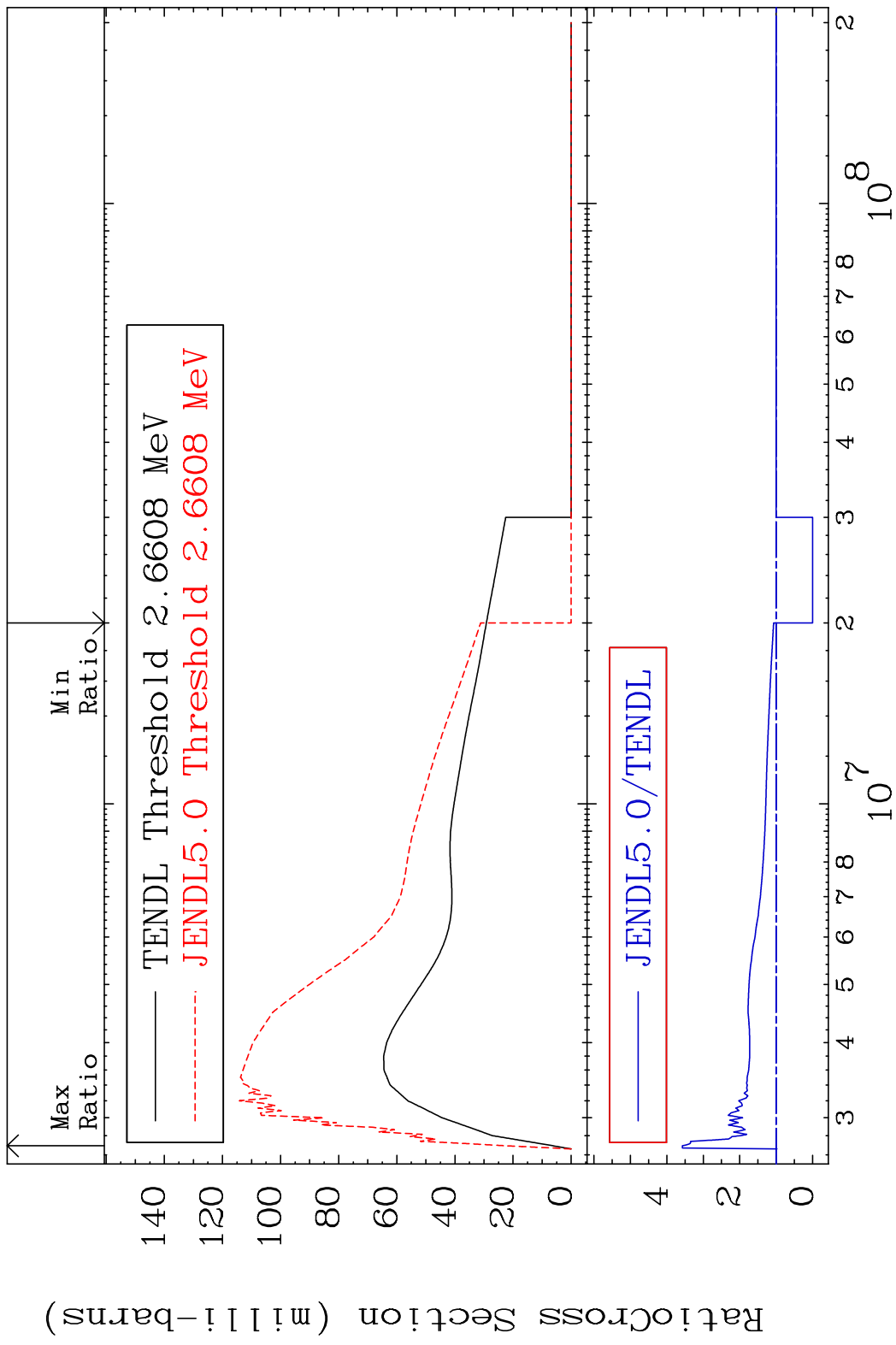


24 Incident Energy (eV) 82-Pb-206

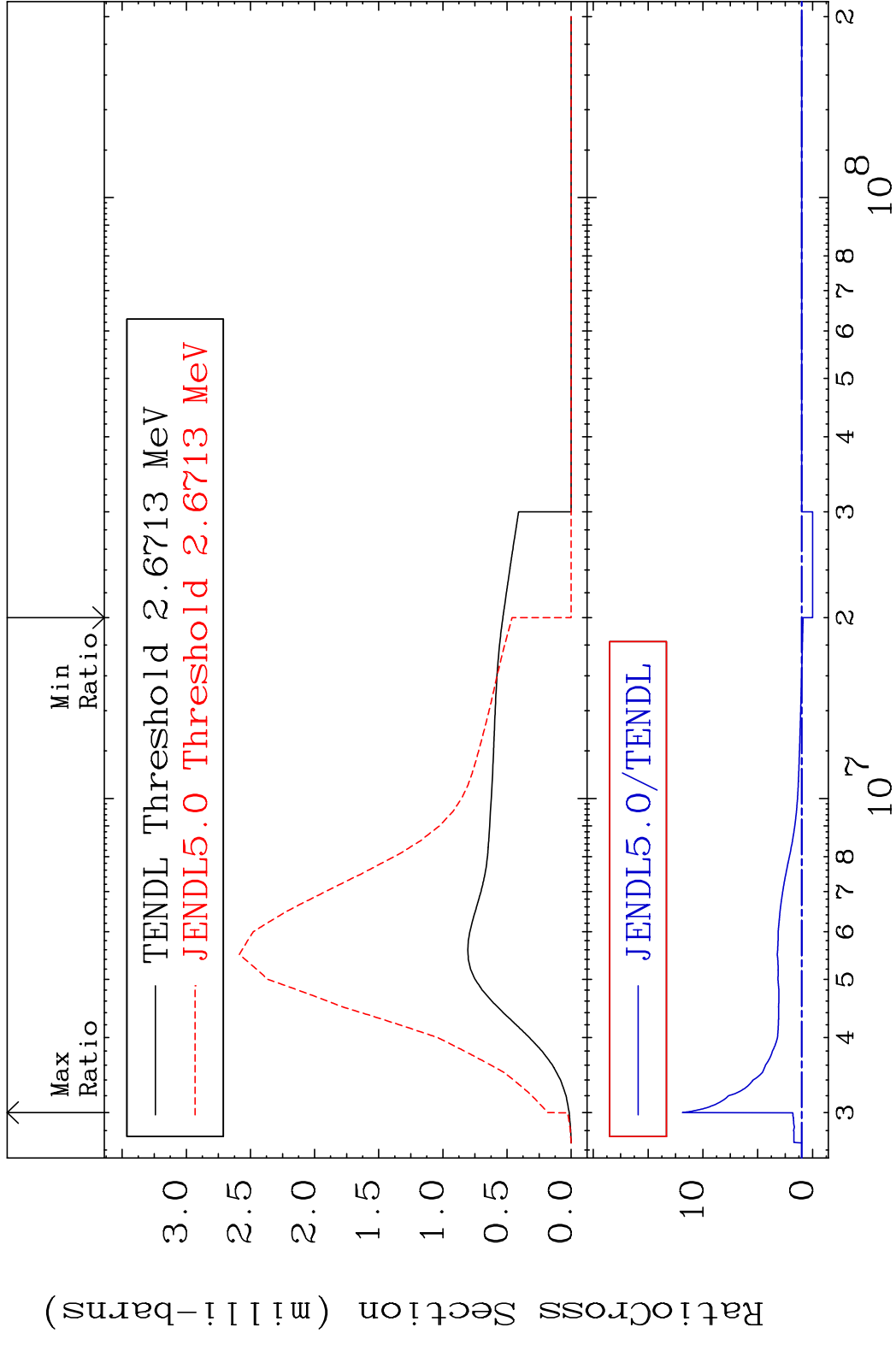
MAT 8231 MT= 66 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 122.6 %



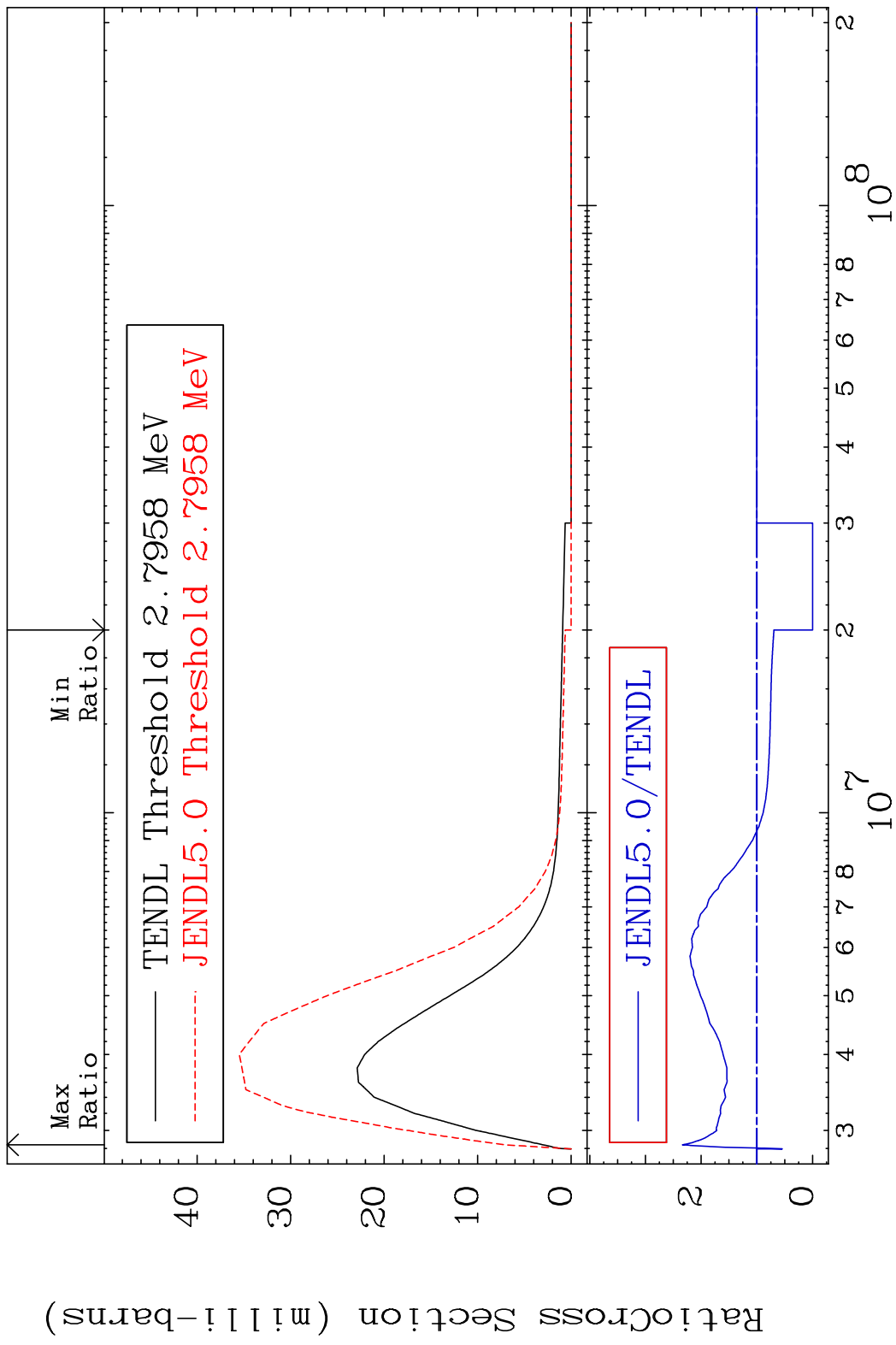
MAT 8231 MT= 67 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 257.4 %



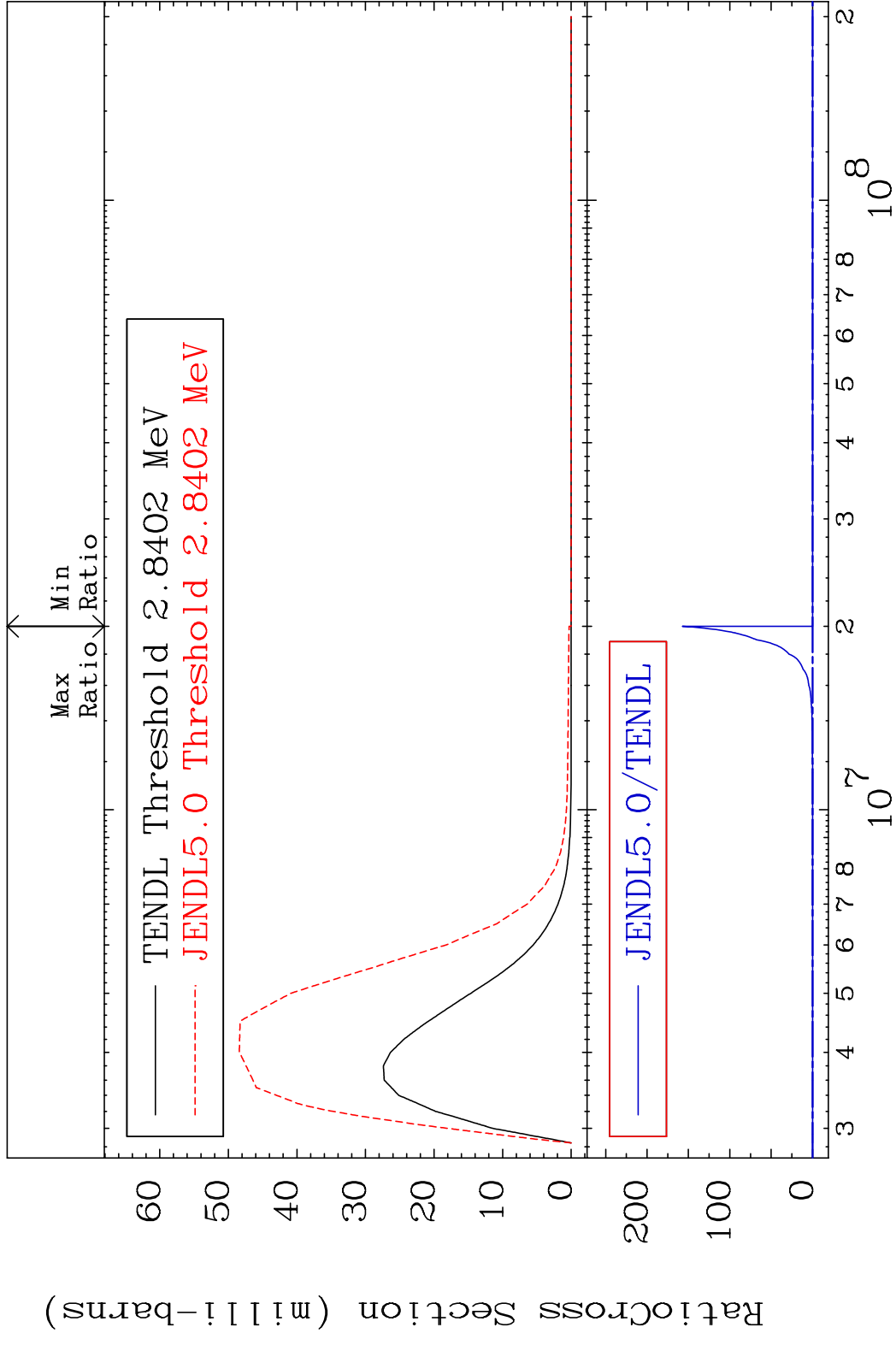
MAT 8231 MT= 68 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 1087. %



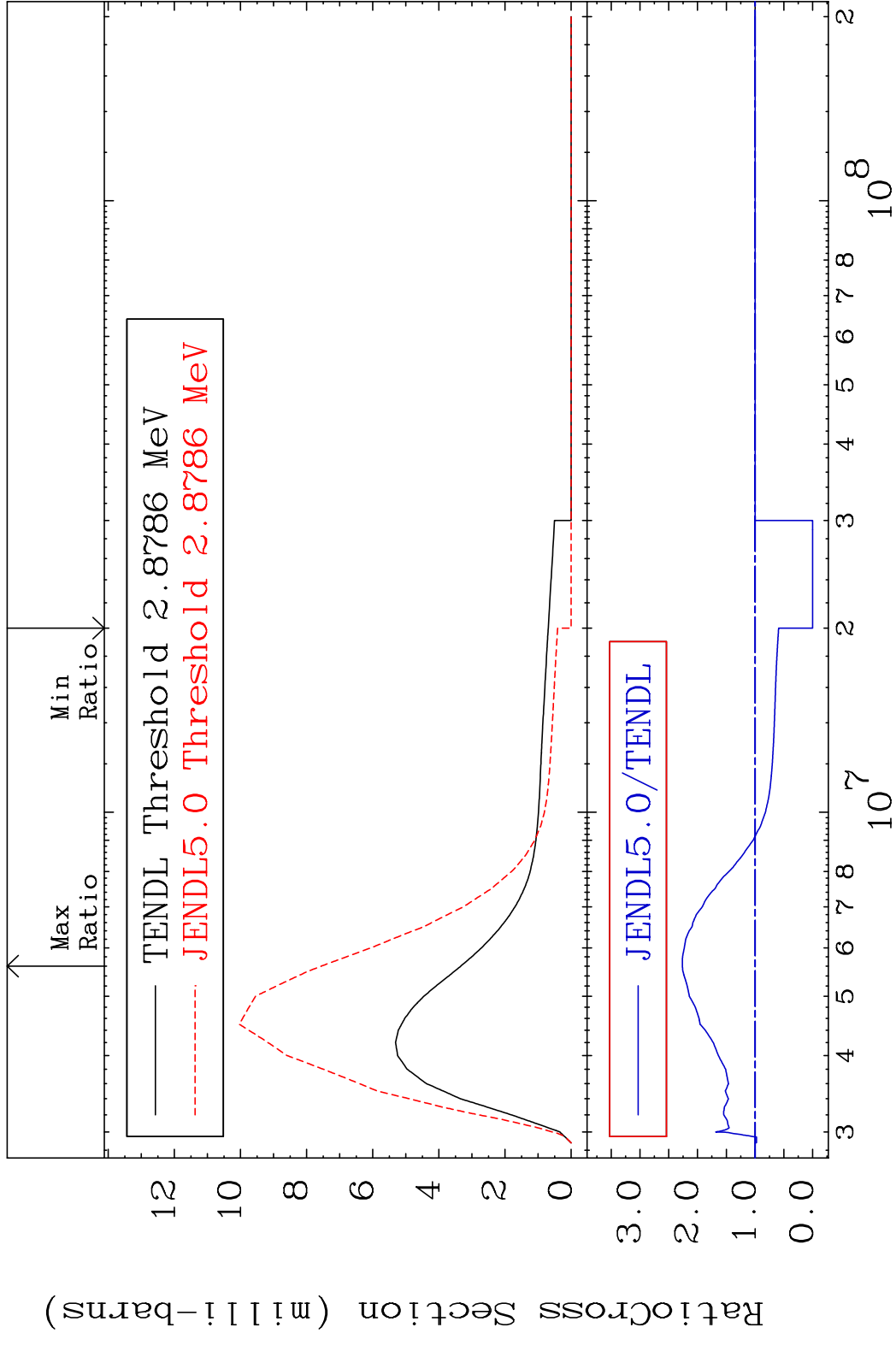
MAT 8231 MT= 69 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 133.7 %



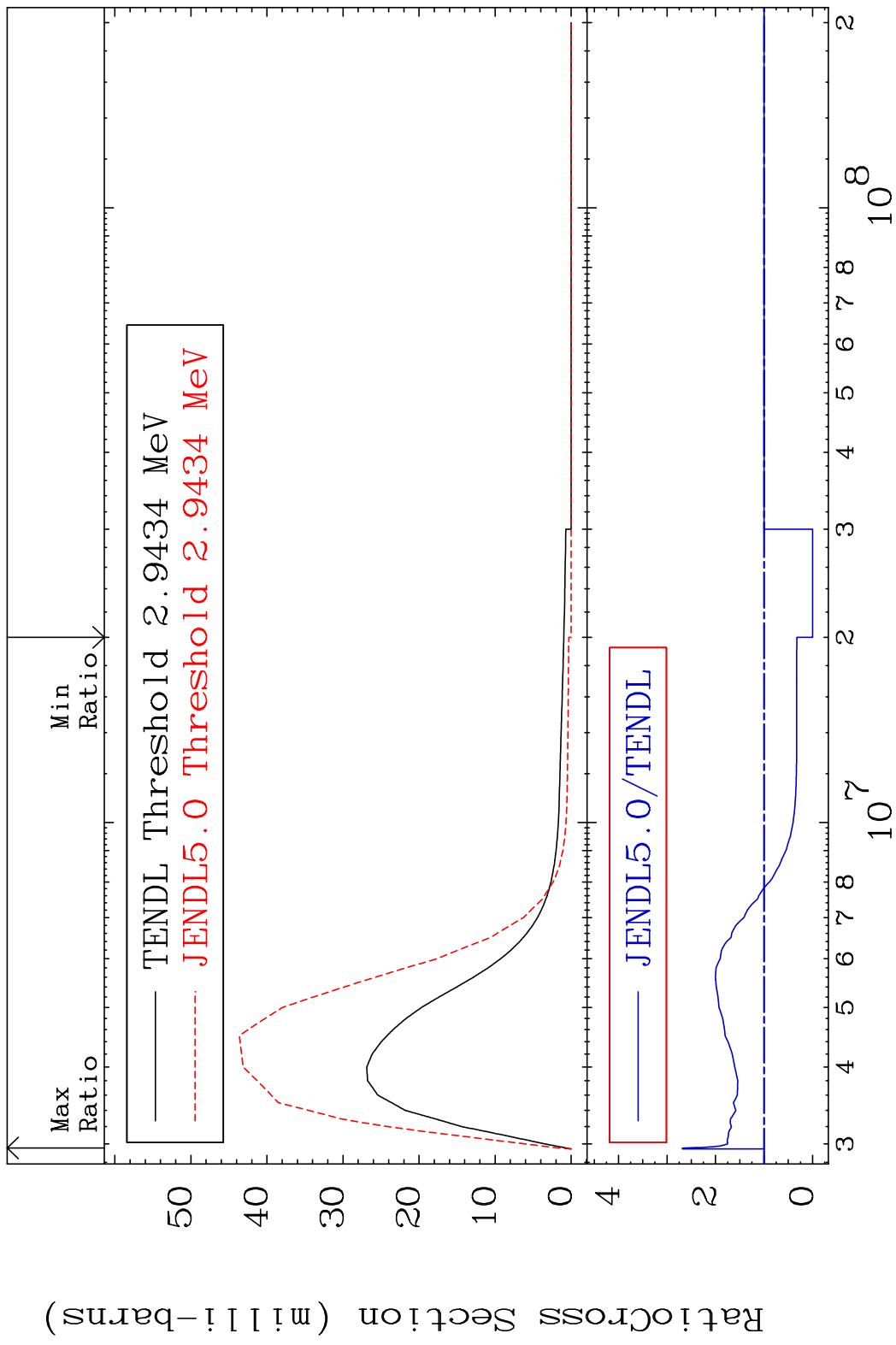
MAT 8231 MT= 70 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



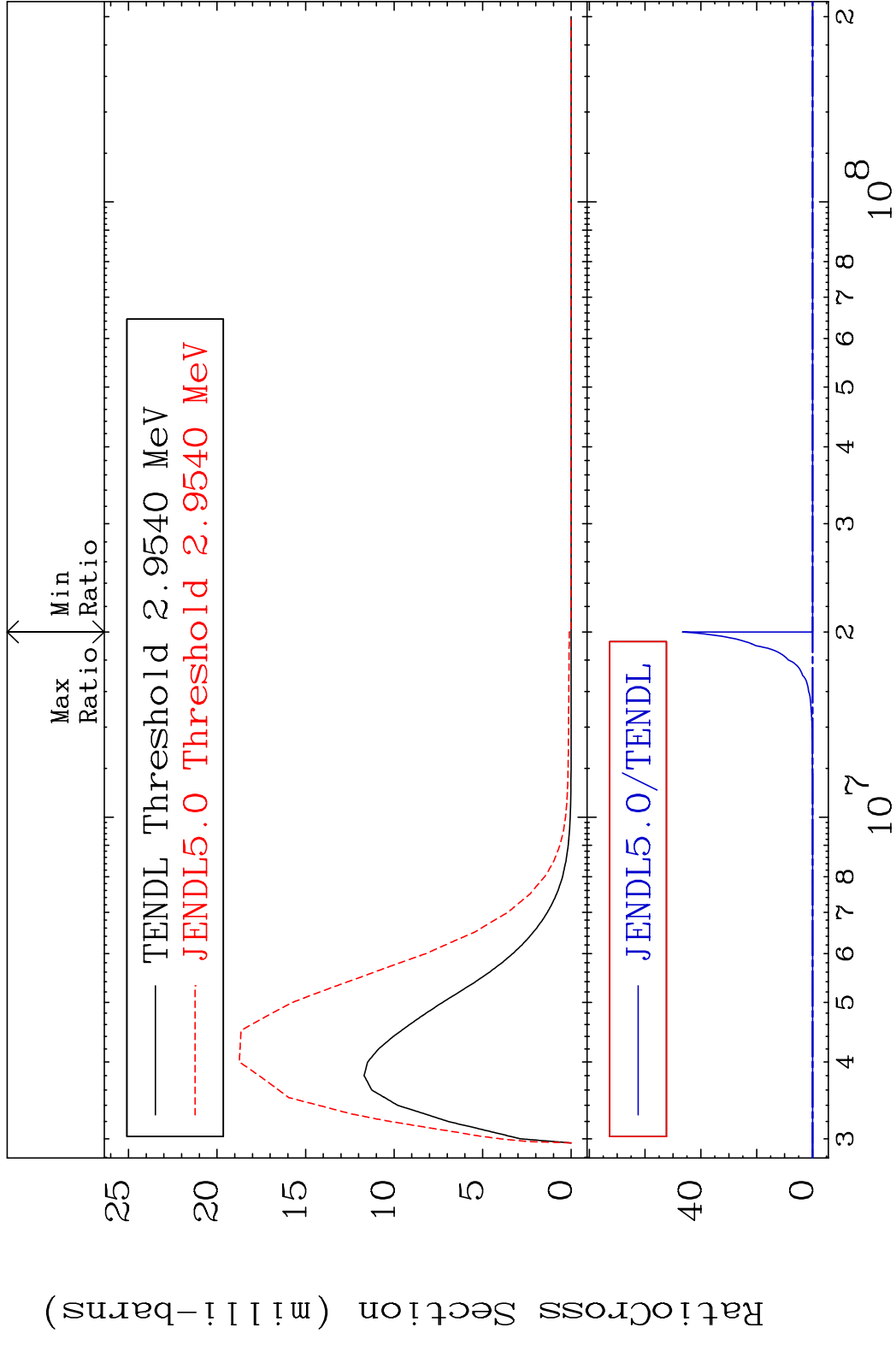
MAT 8231 MT= 71 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 126.4 %



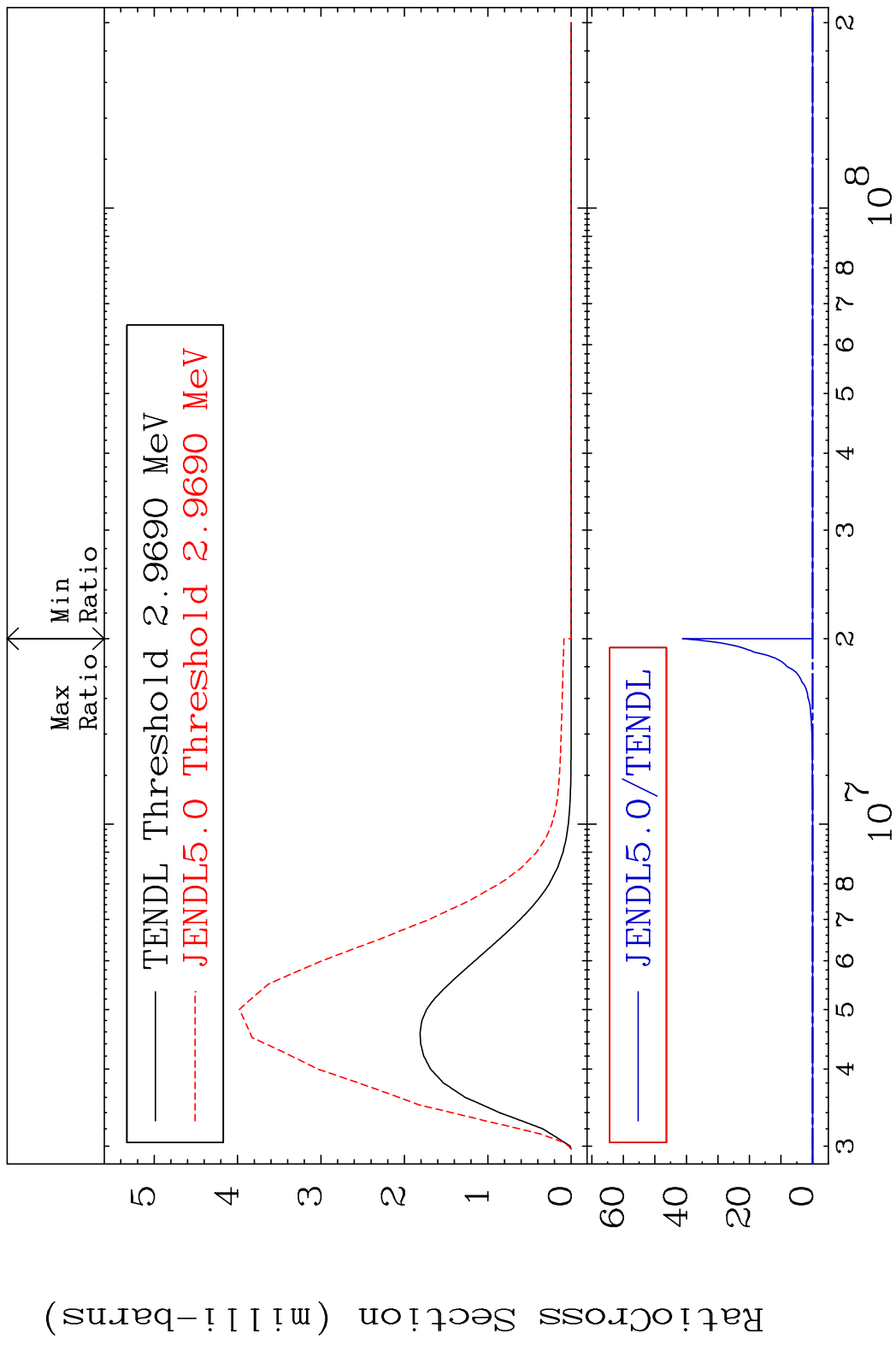
MAT 8231 MT= 72 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 168.4 %



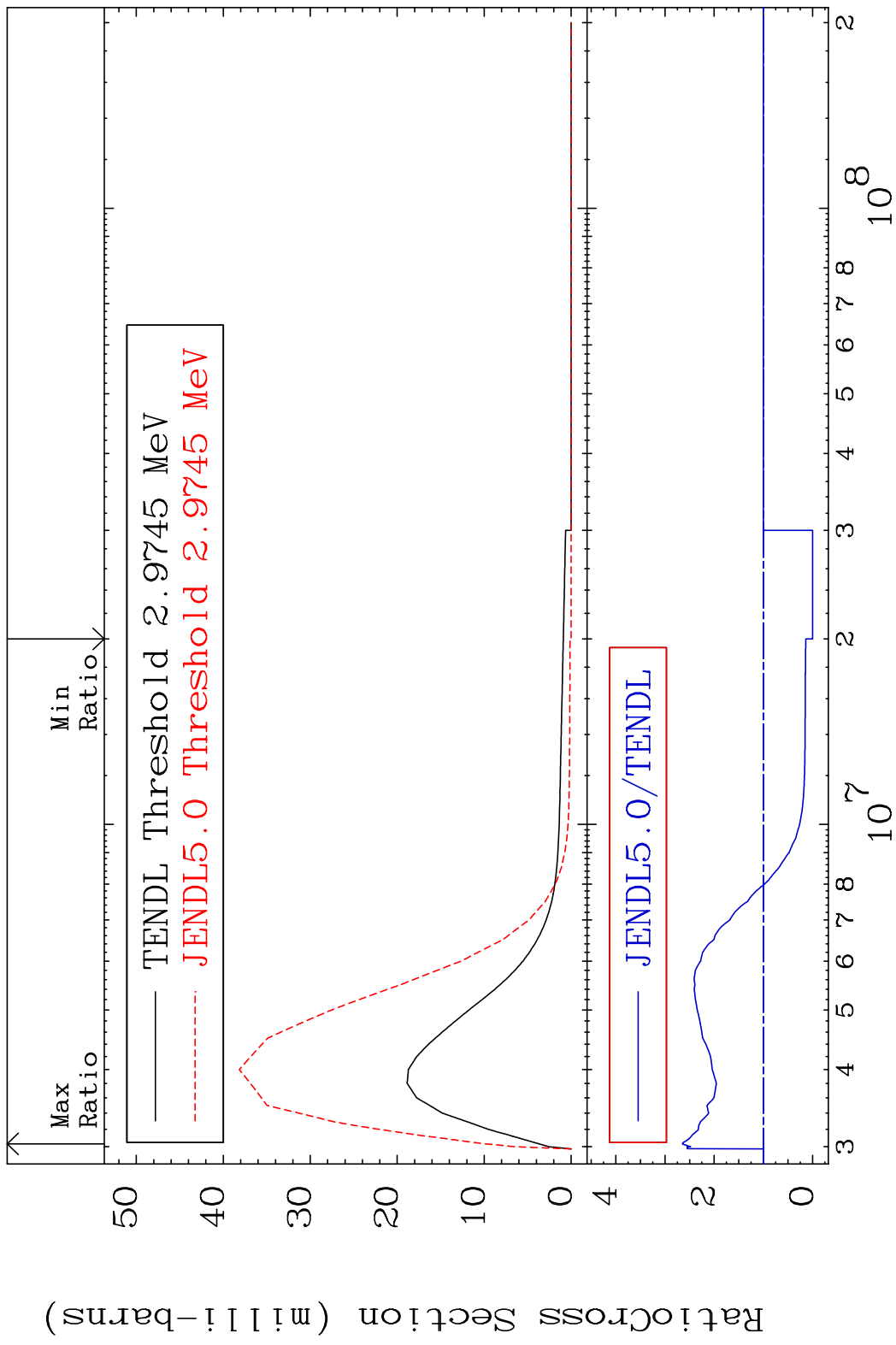
MAT 8231 MT= 73 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



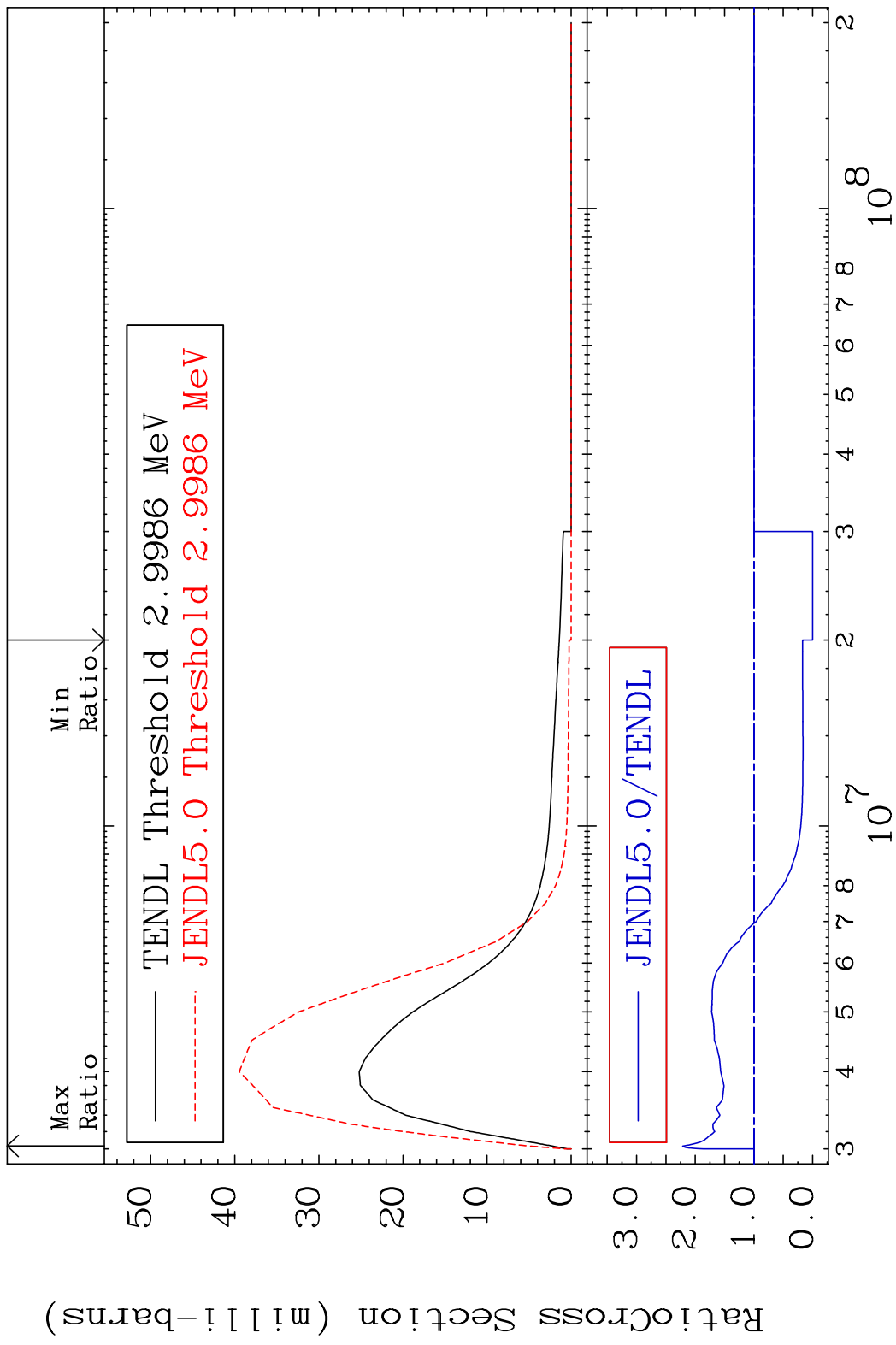
MAT 8231 MT= 74 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



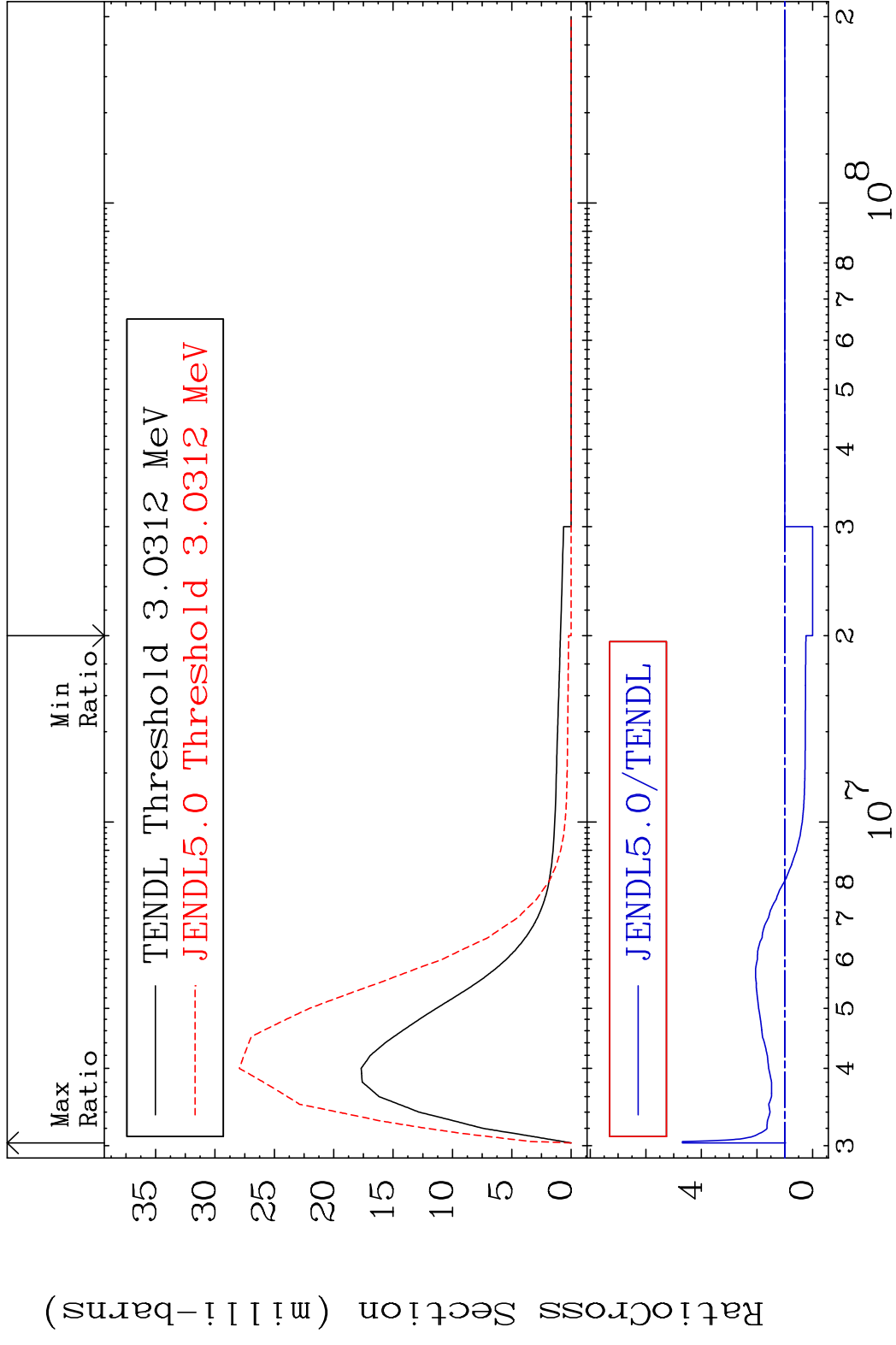
MAT 8231 MT= 75 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 164.7 %



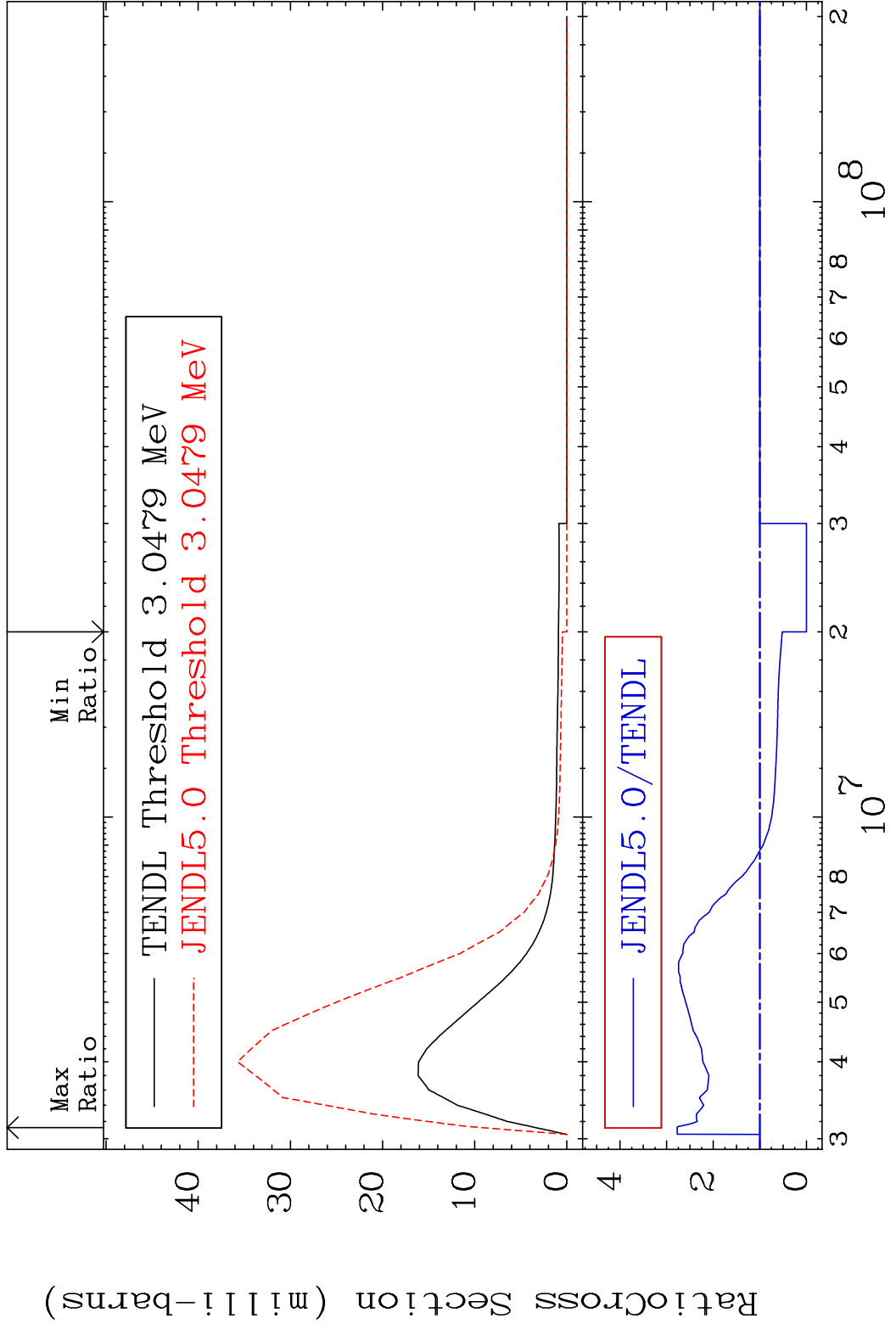
MAT 8231 MT= 76 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 122.0 %



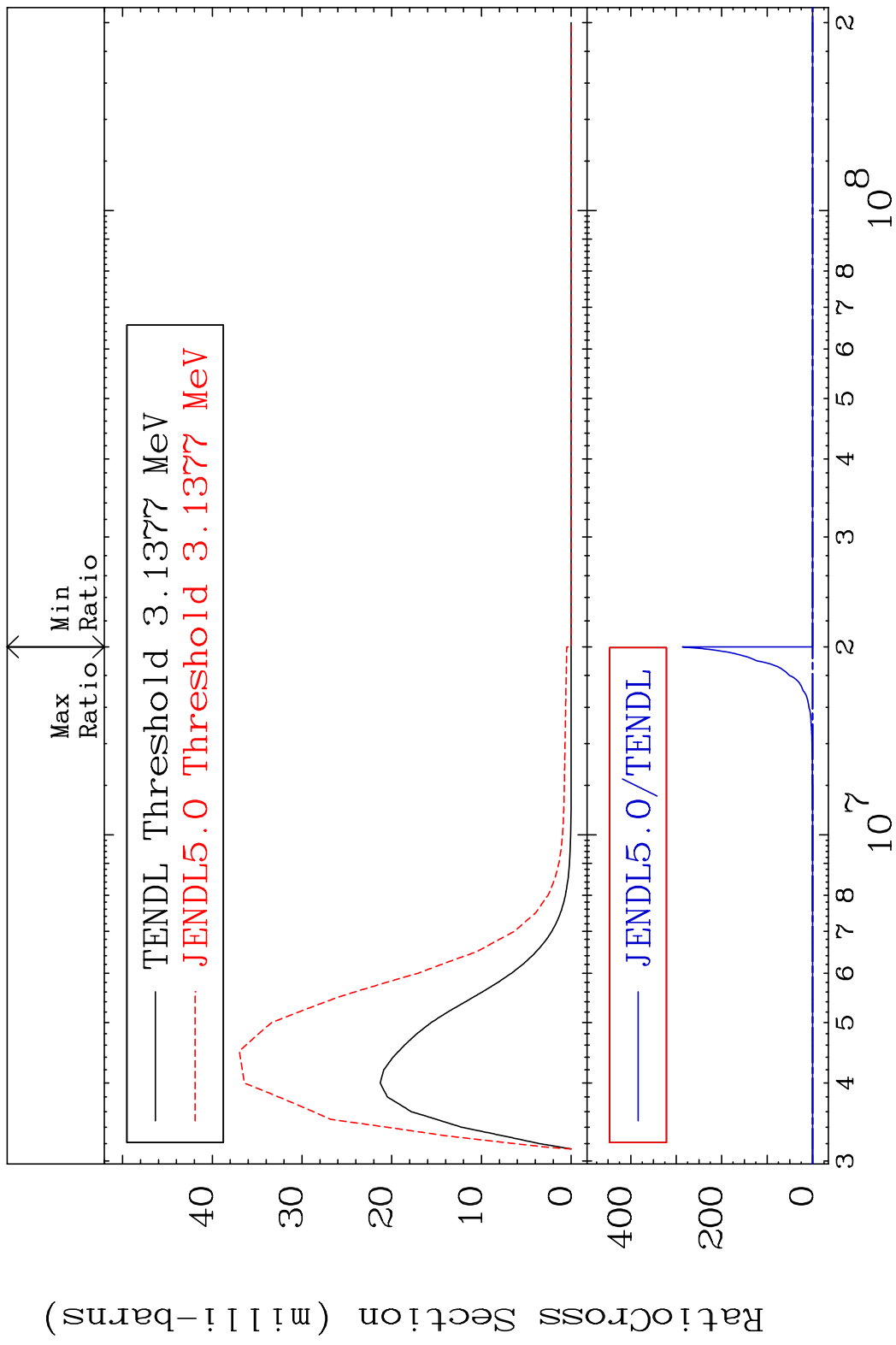
MAT 8231 MT= 77 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 368.6 %



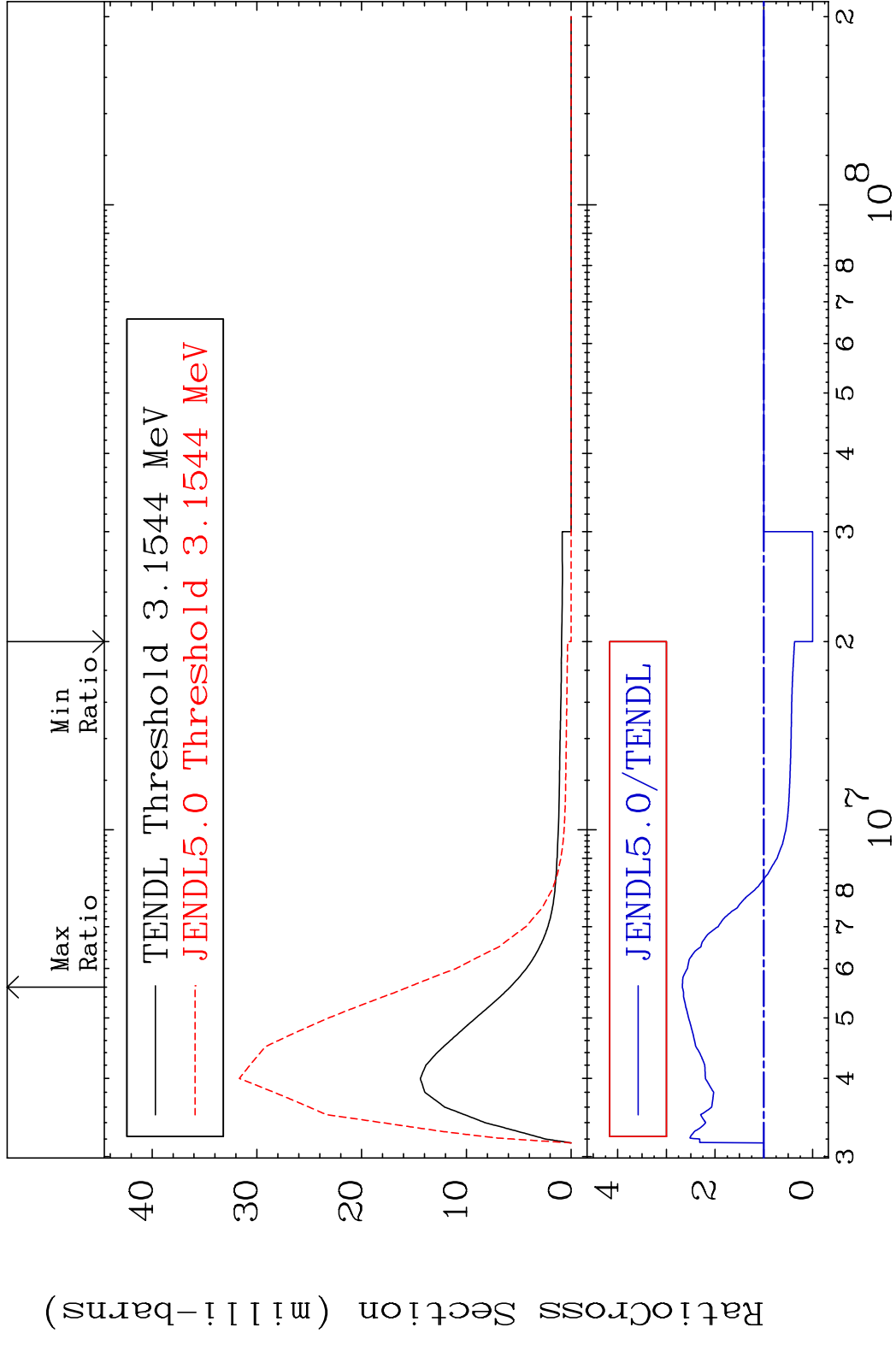
MAT 8231 MT= 78 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 177.4 %



MAT 8231 MT= 79 (n,n') Level 82-Pb-206
 Cross Section -100.0 To 9999. %



MAT 8231 MT= 80 (n, n') Level 82-Pb-206
 Cross Section -100.0 To 167.2 %

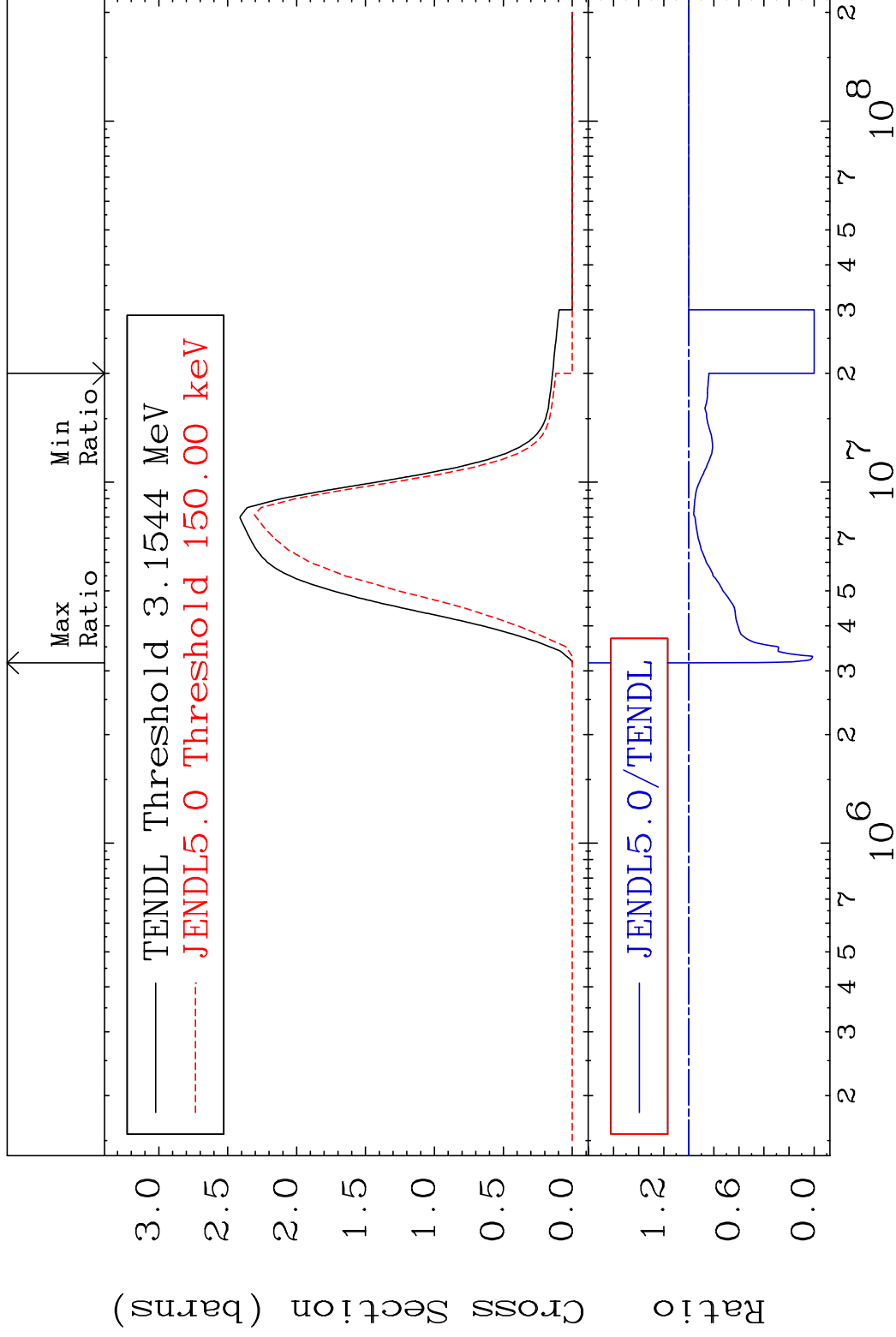


MAT 8231

(n, n') Continuum

82-Pb-206

Cross Section -100.0 To 4.095 %



40

Incident Energy (eV)

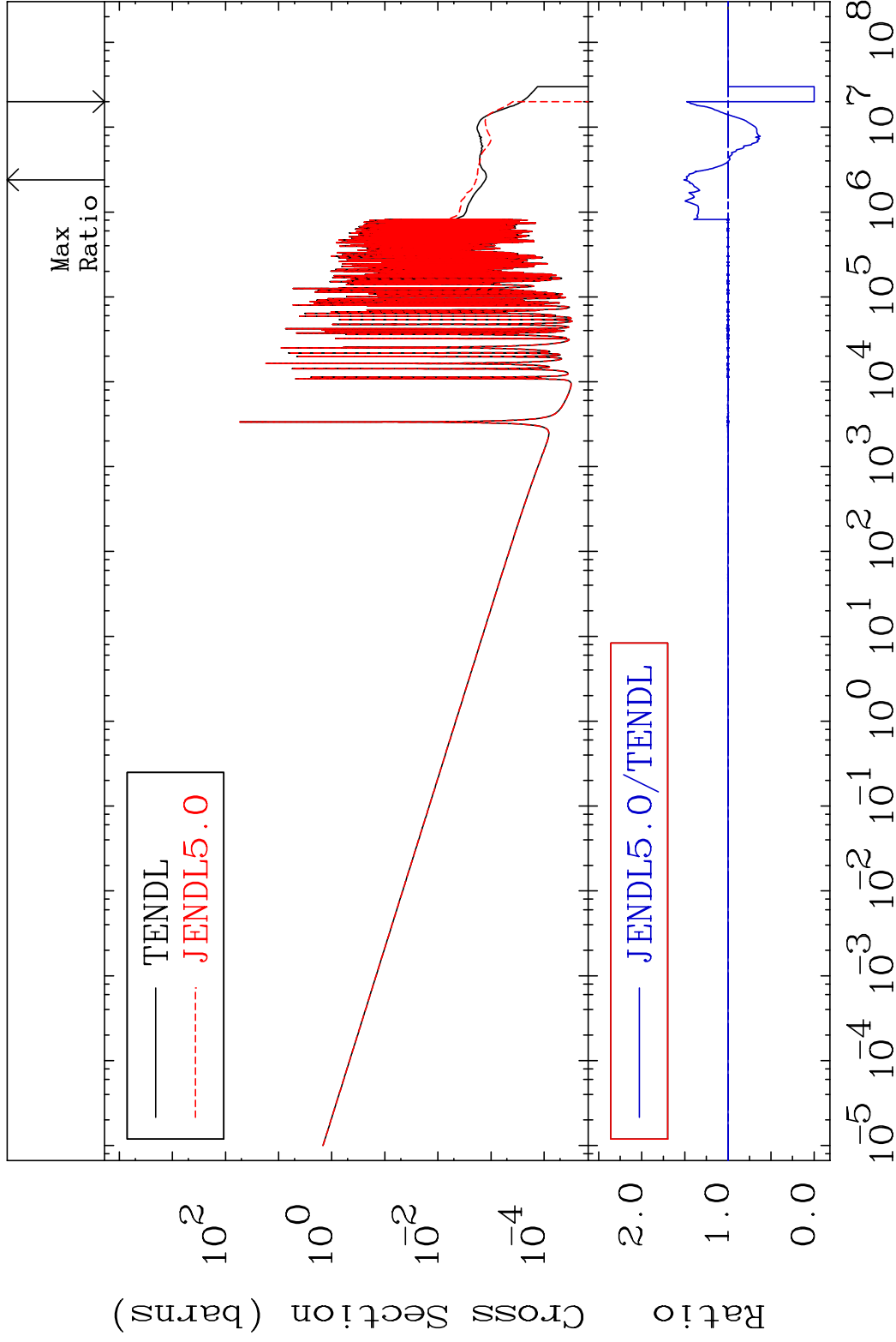
82-Pb-206

MAT 8231

(n, γ)

82-Pb-206

Cross Section -100.0 To 51.37 %



41

Incident Energy (eV)

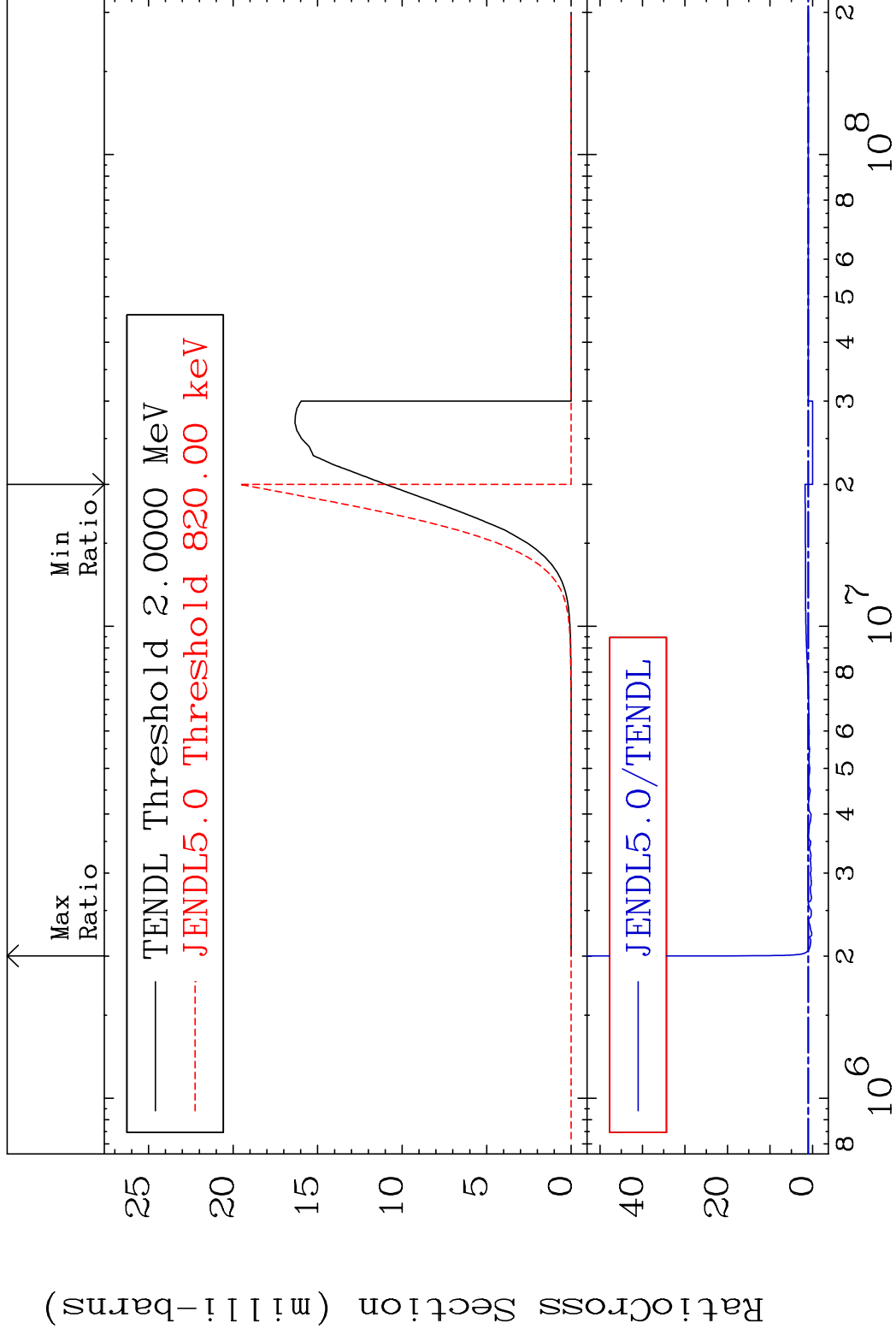
82-Pb-206

MAT 8231

(n, p)

82-Pb-206

Cross Section -100.0 To 2962. %



42

Incident Energy (eV)

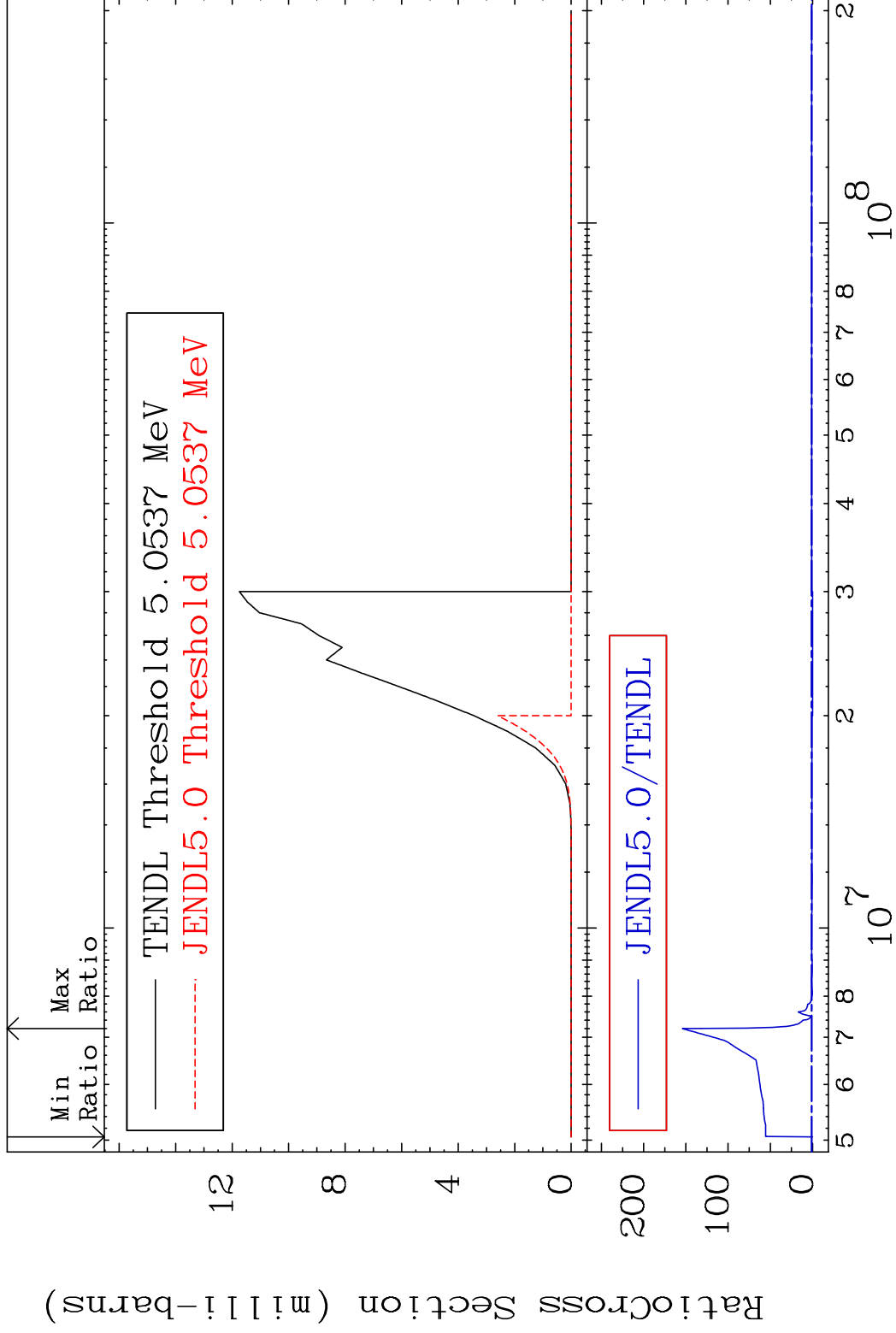
82-Pb-206

MAT 8231

(n,d)

82-Pb-206

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

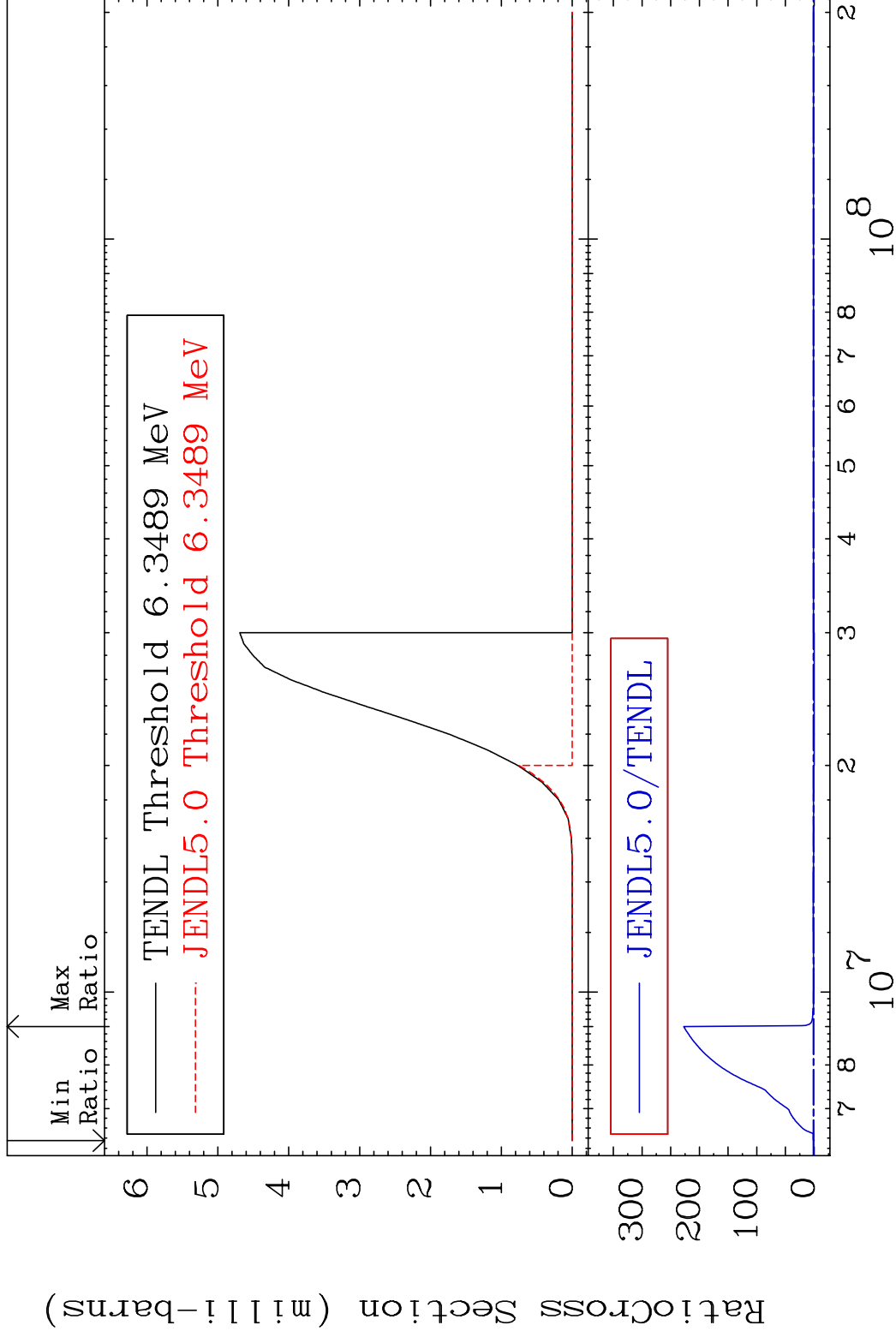
82-Pb-206

MAT 8231

(n, t)

82-Pb-206

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

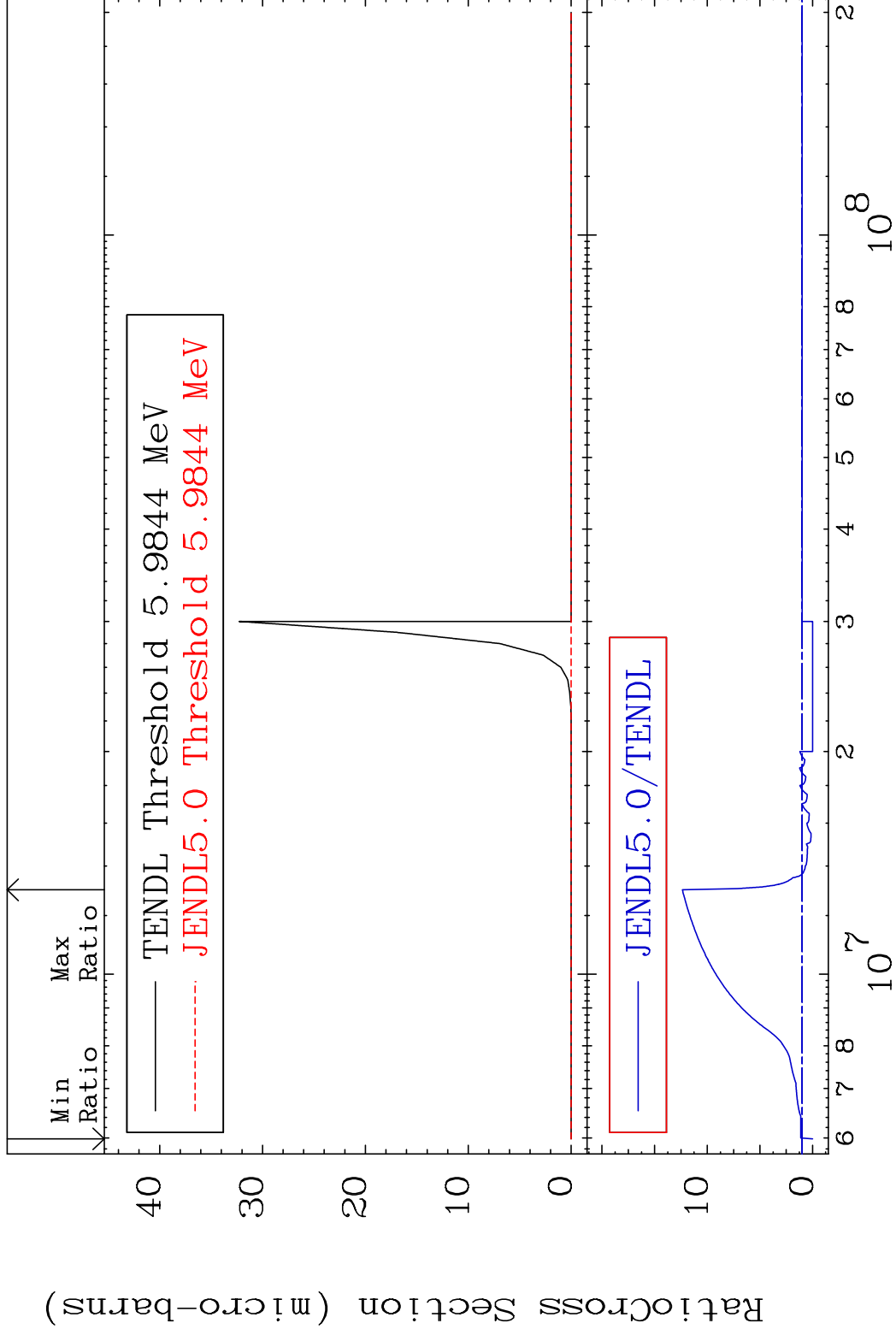
82-Pb-206

MAT 8231

(n, He-3)

82-Pb-206

Cross Section -100.0 To 1137. %



45

Incident Energy (eV)

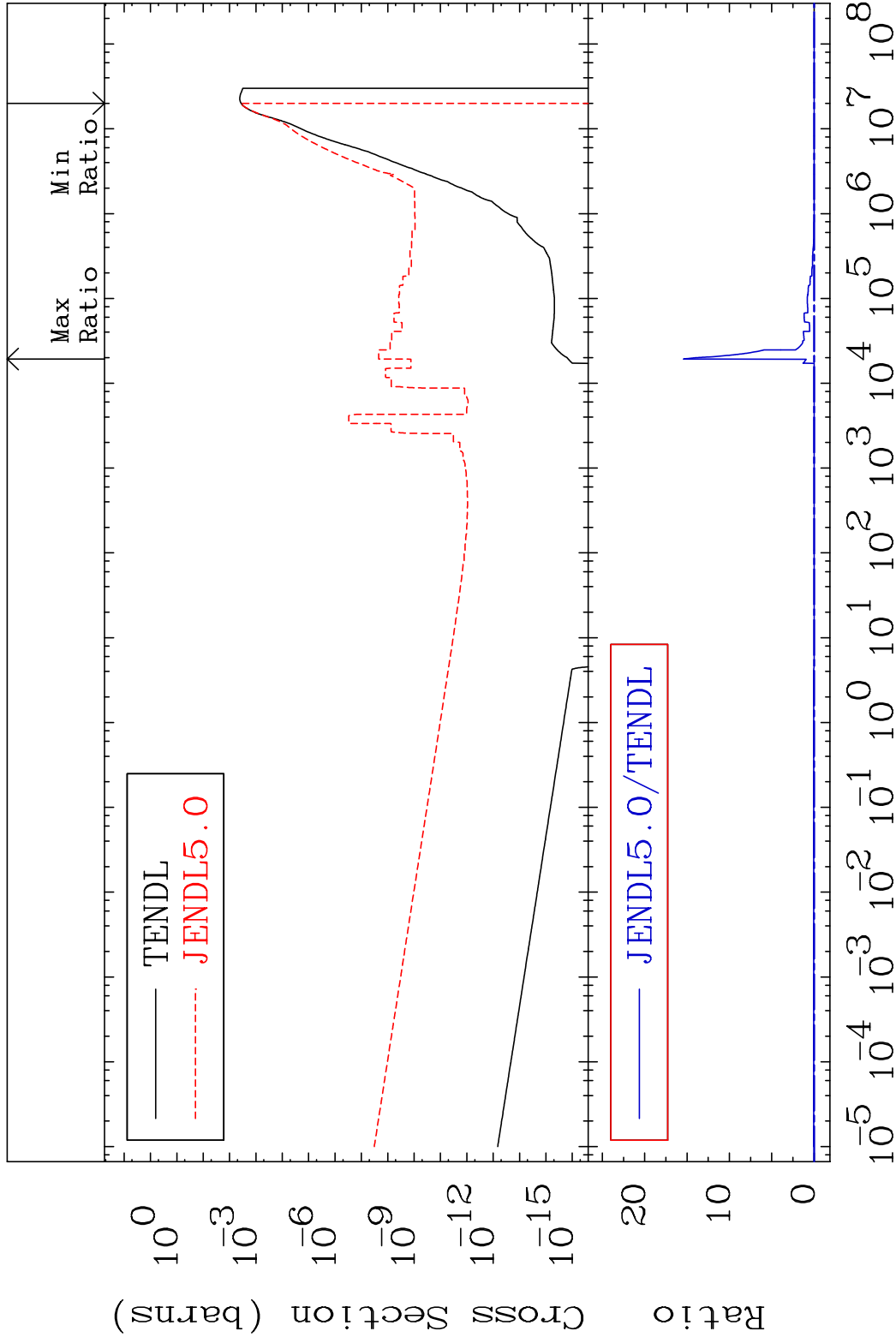
82-Pb-206

MAT 8231

(n, α)

82-Pb-206

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

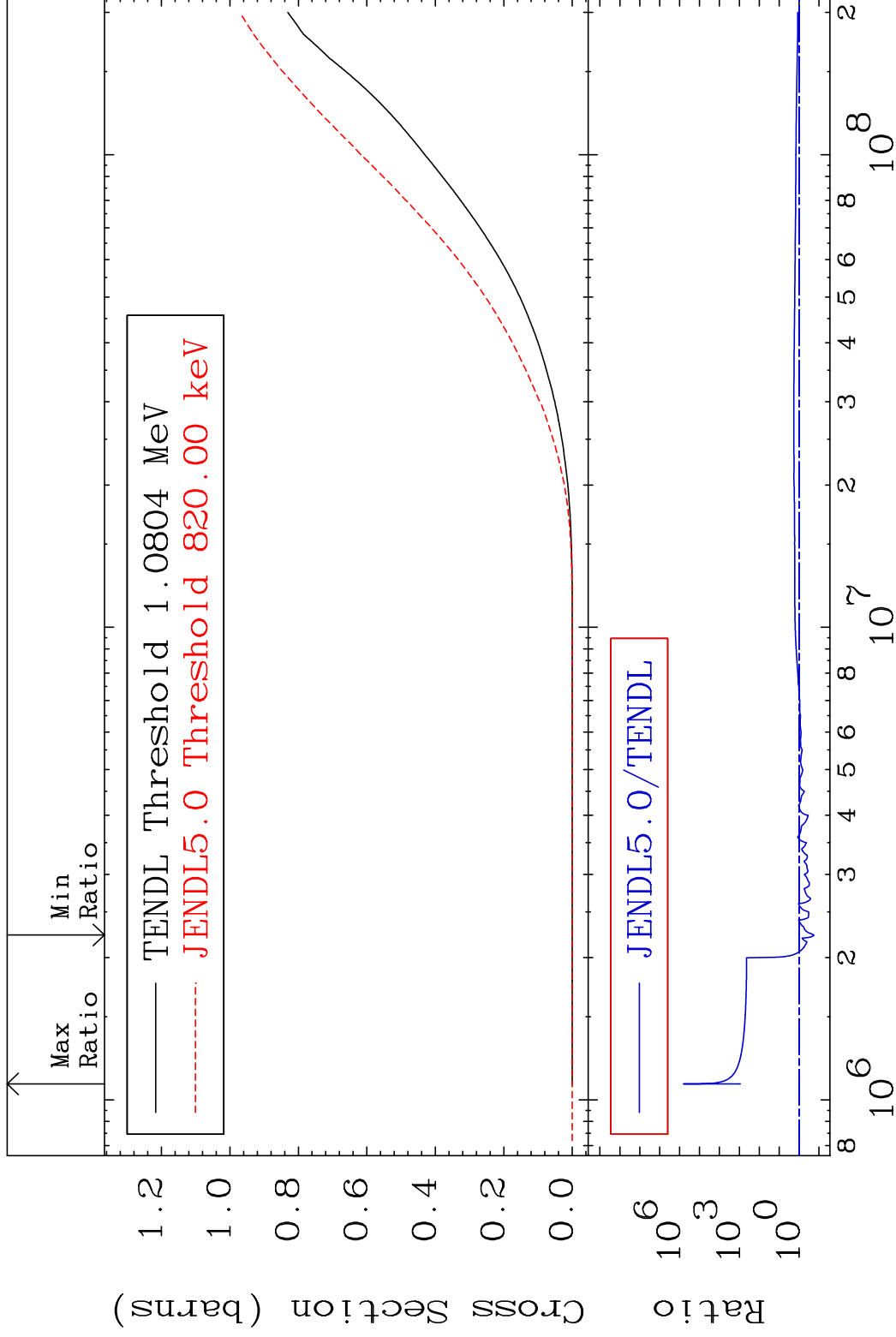
82-Pb-206

MAT 8231

Hydrogen Production

82-Pb-206

Cross Section -82.37 To 9999. %

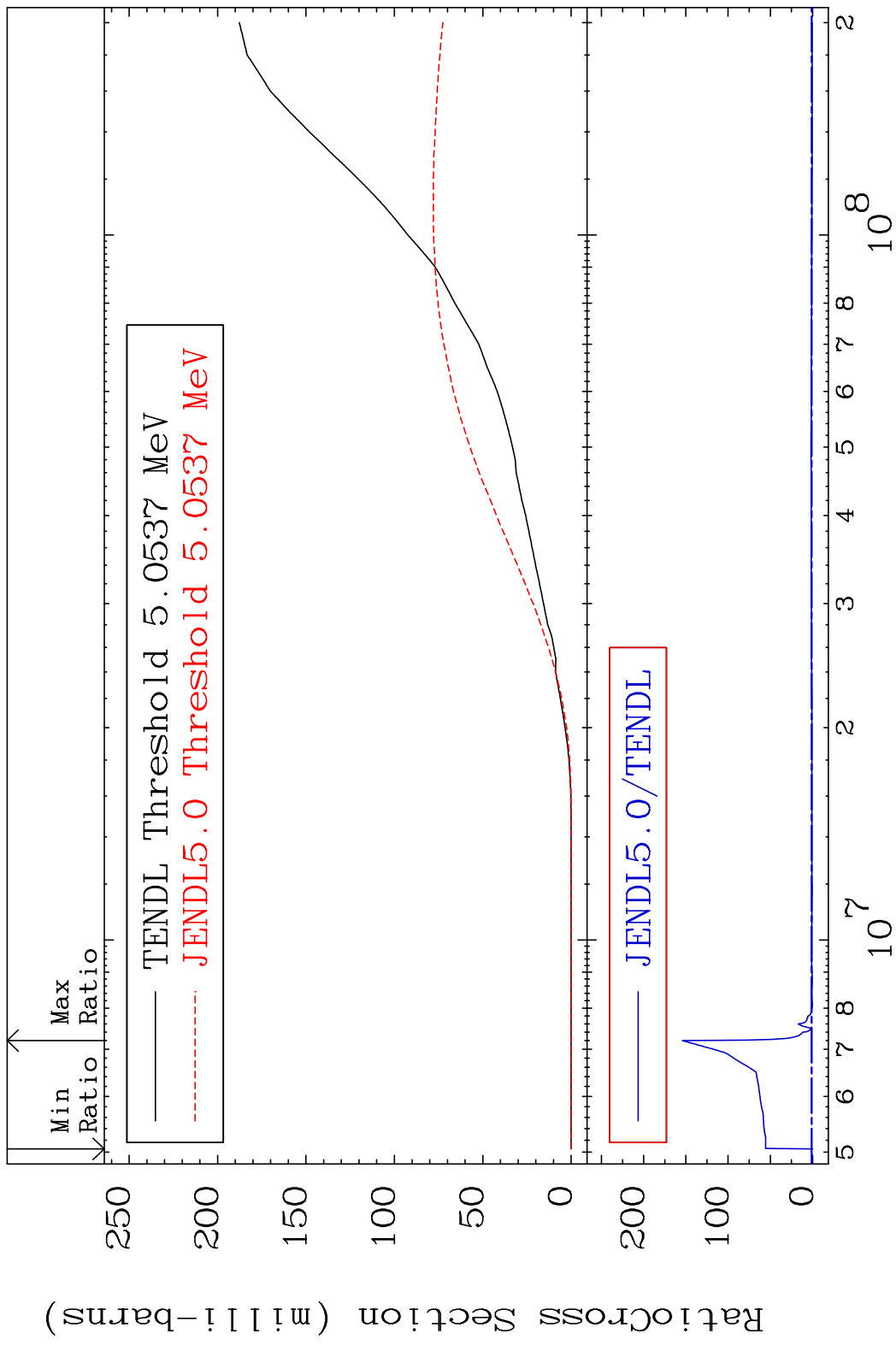


47

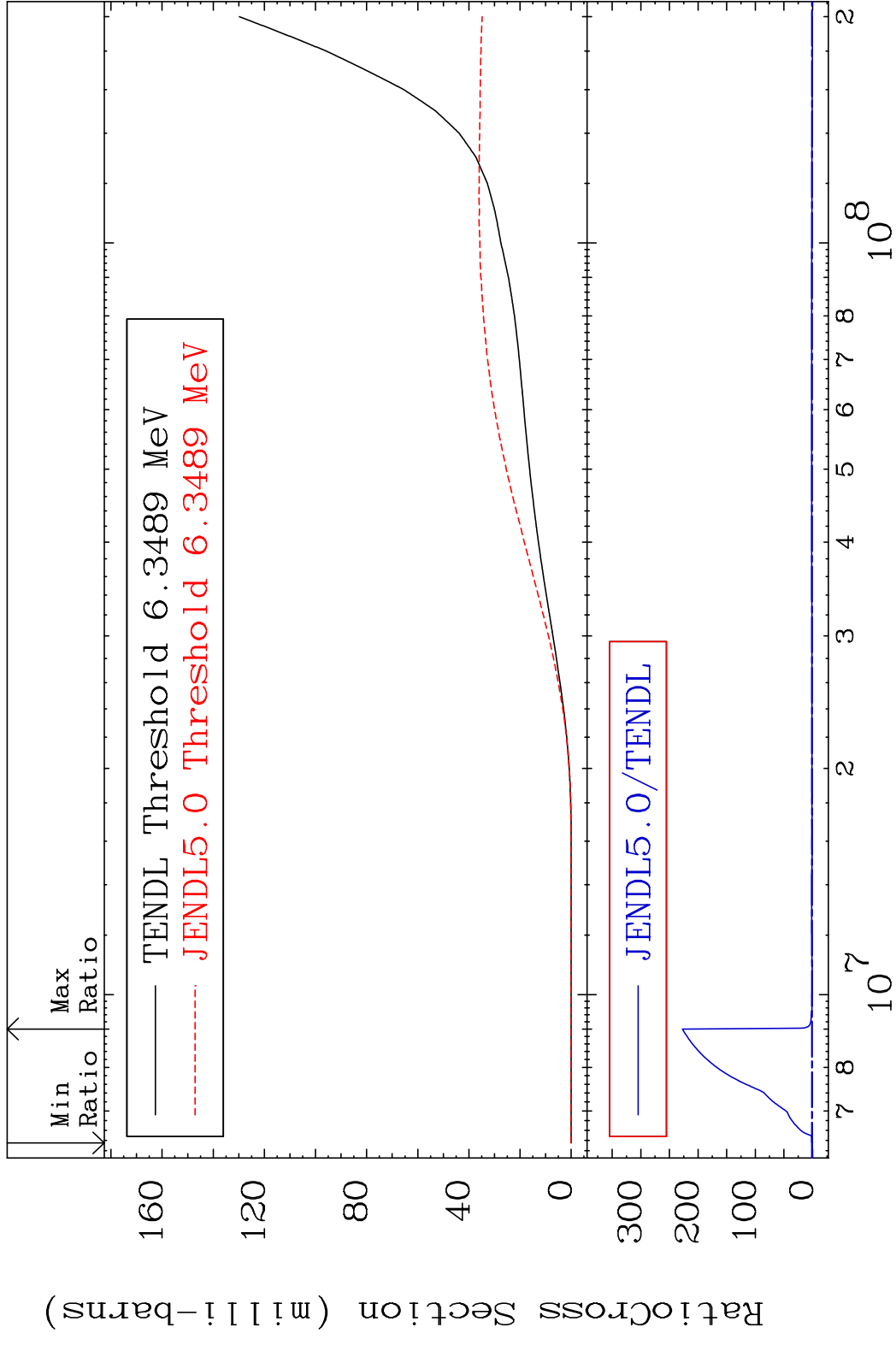
Incident Energy (eV)

82-Pb-206

MAT 8231 Deuterium Production 82-Pb-206
 Cross Section -100.0 To 9999. %



MAT 8231 Tritium Production 82-Pb-206
 Cross Section -100.0 To 9999. %

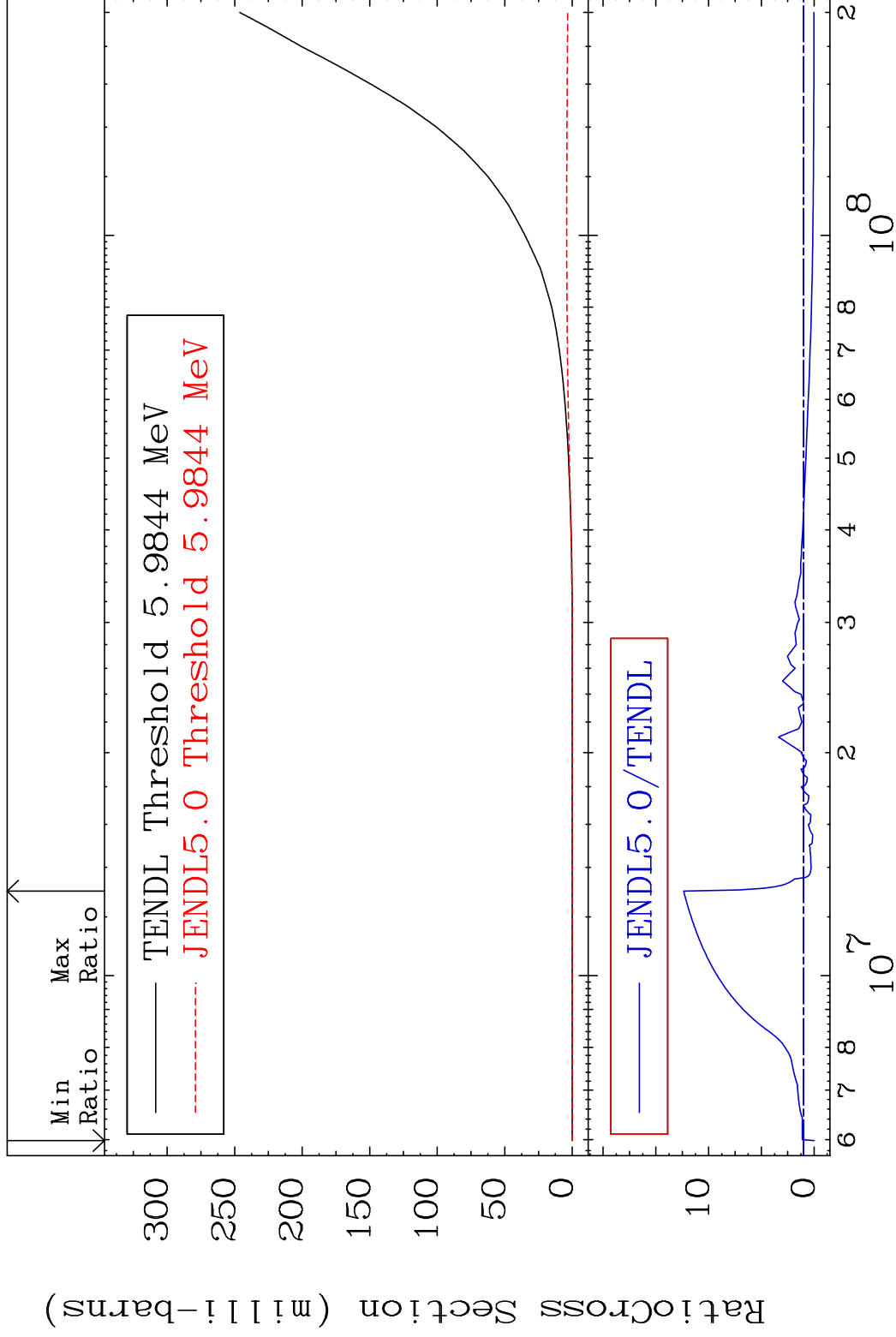


MAT 8231

He-3 Production

82-Pb-206

Cross Section -100.0 To 1137. %



50

Incident Energy (eV)

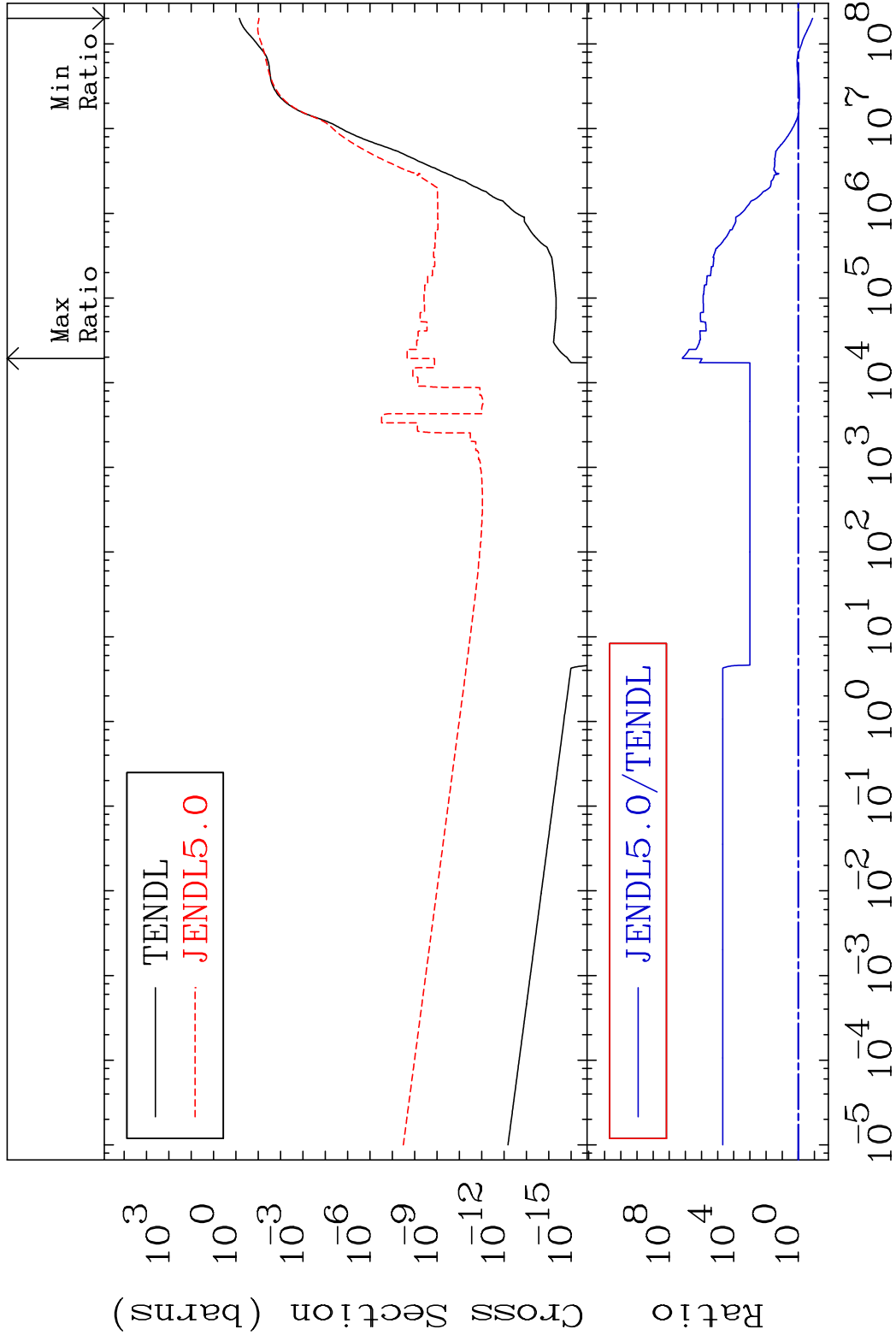
82-Pb-206

MAT 8231

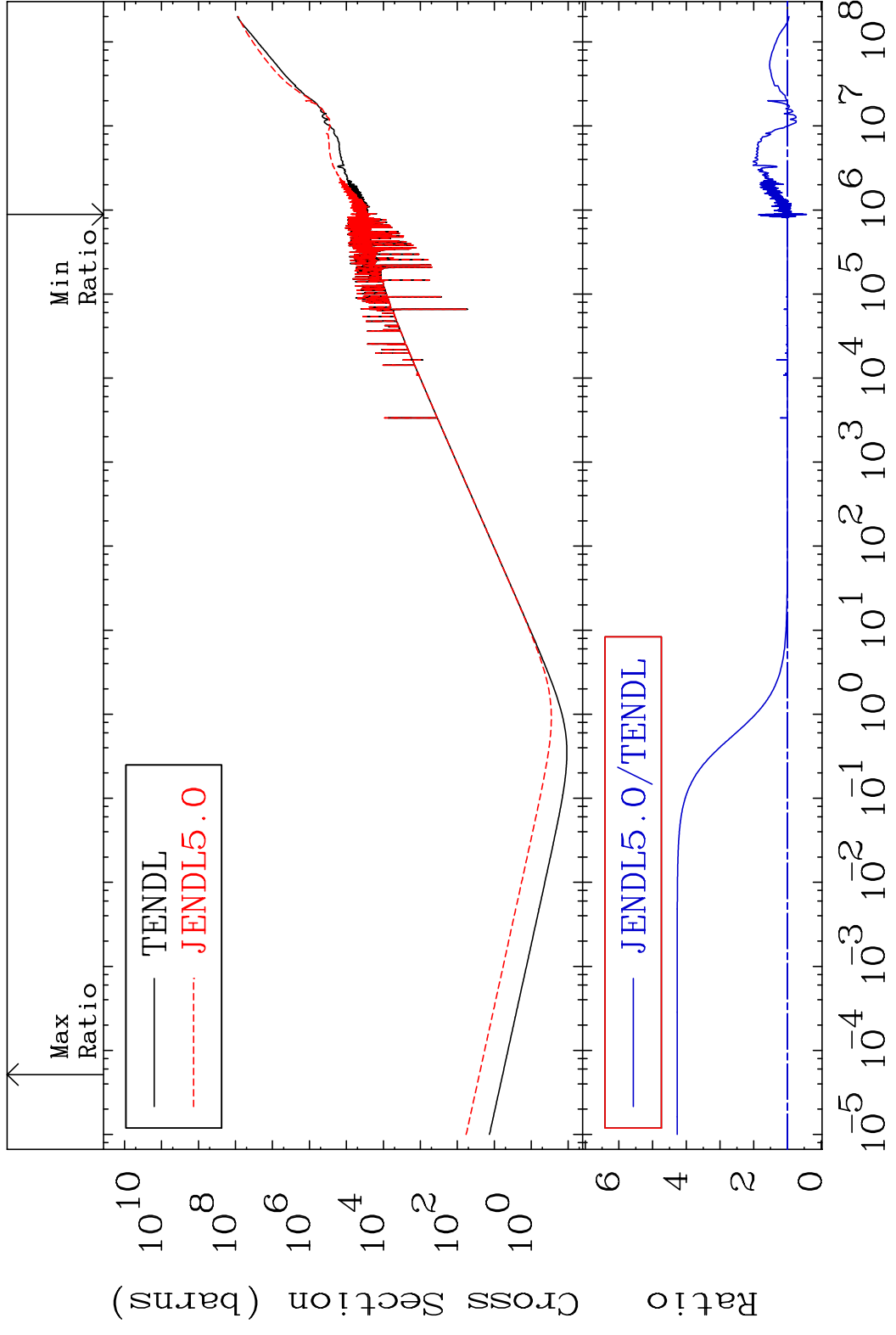
He-4 Production

82-Pb-206

Cross Section -86.84 To 9999. %



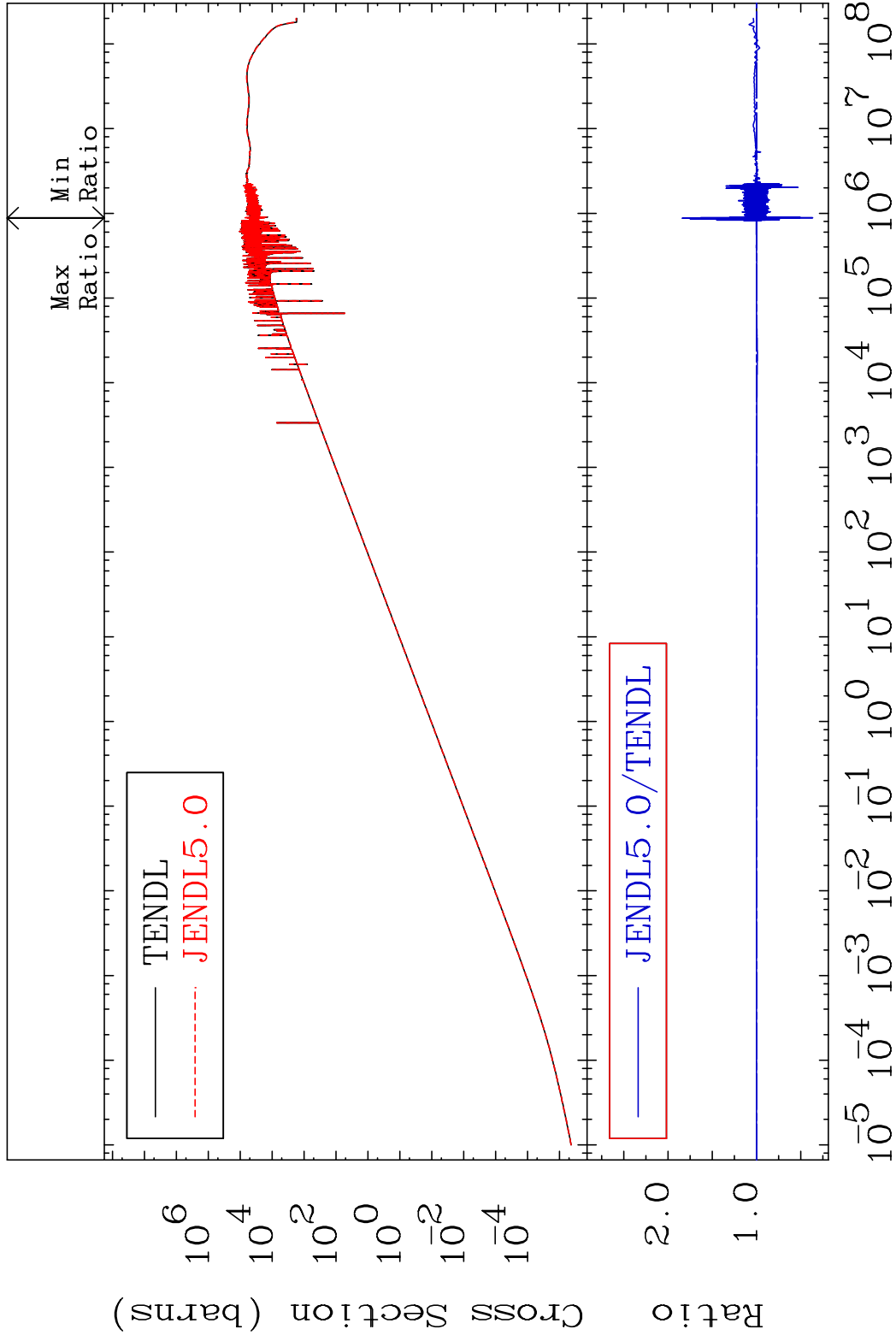
MAT 8231 Kerma total (eV-barns) 82-Pb-206
 Cross Section -56.36 To 327.1 %



MAT 8231

Kerma elastic
Cross Section

82-Pb-206
-63.28 To 83.87 %

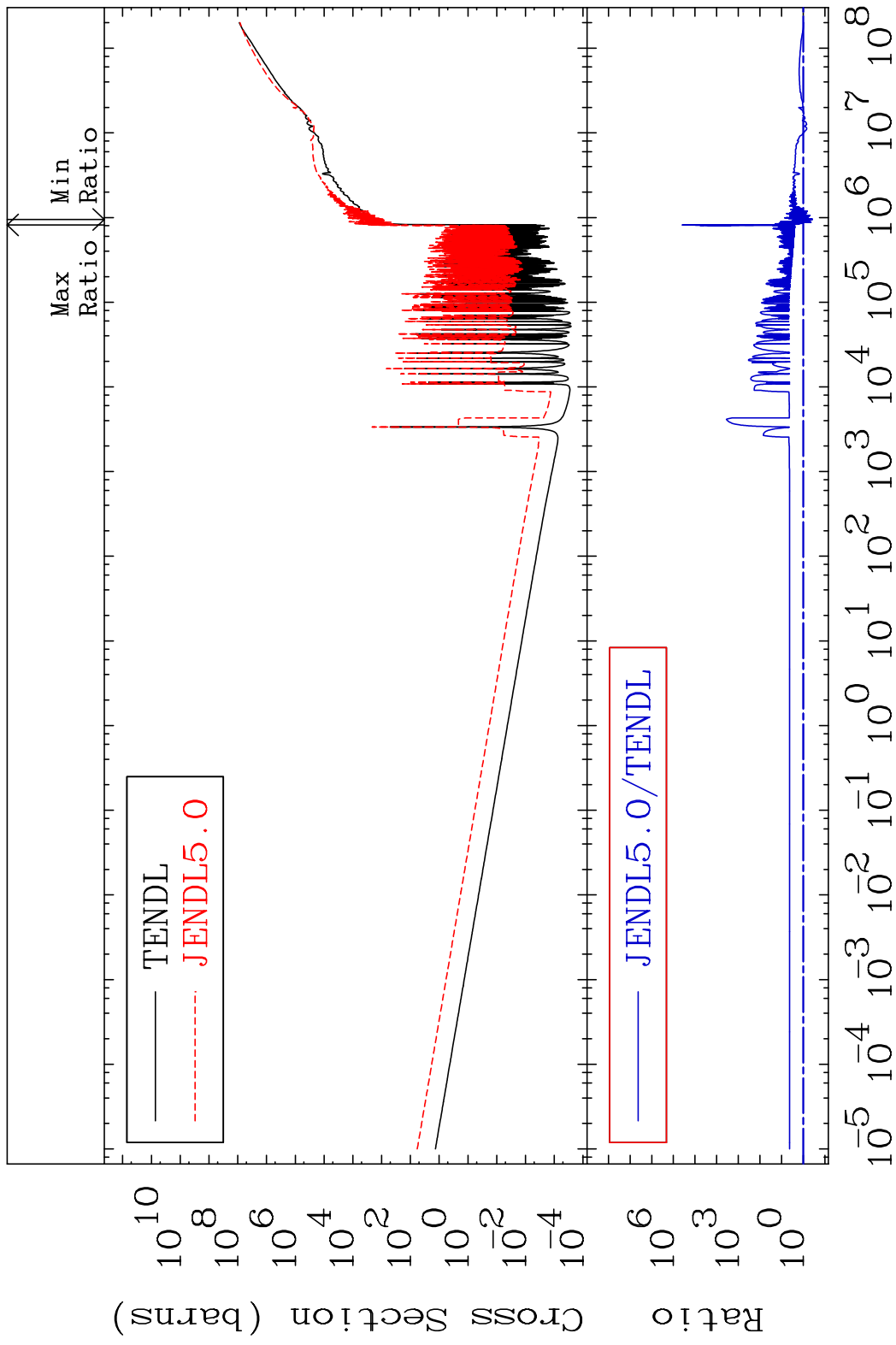


53

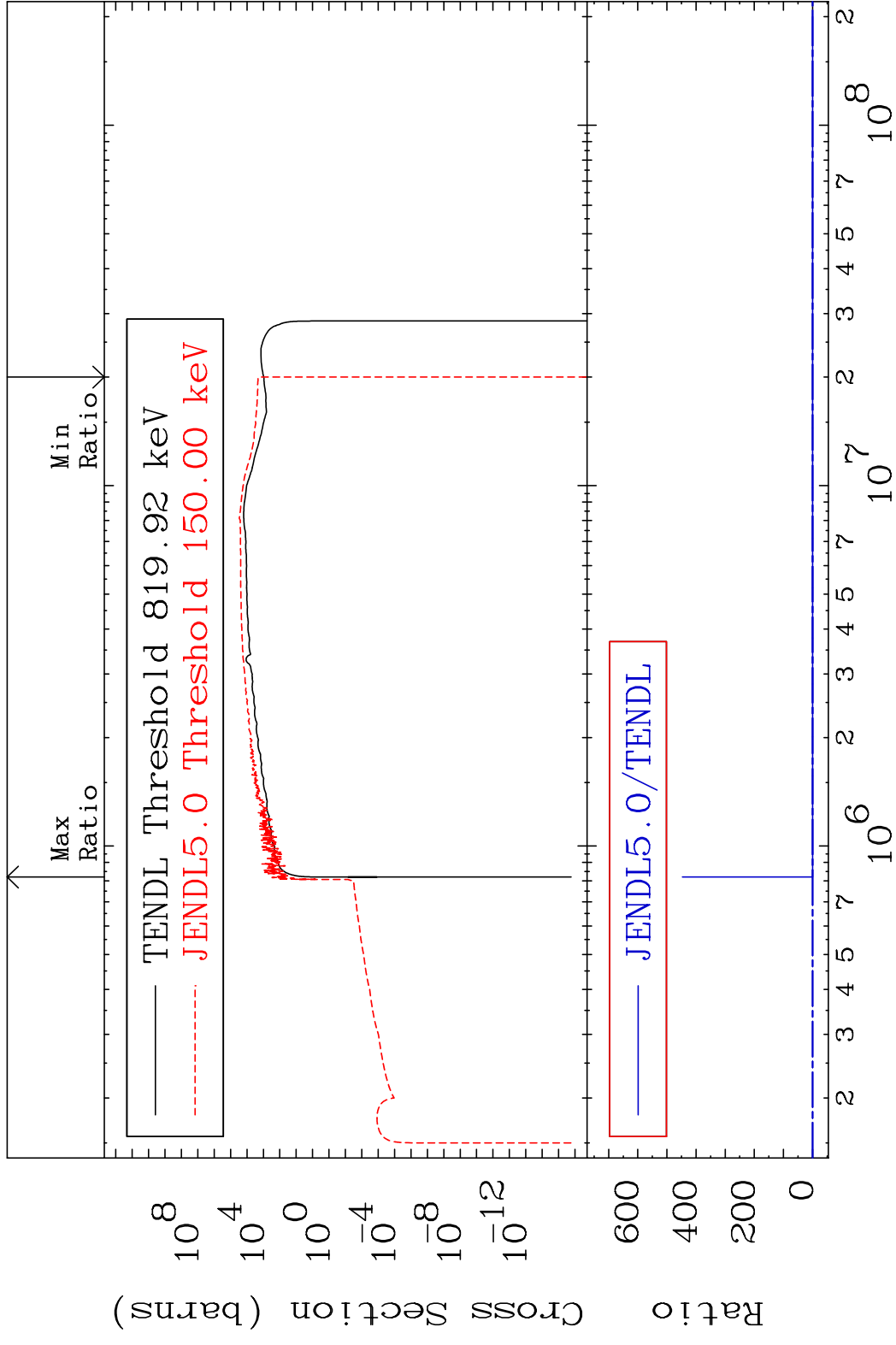
Incident Energy (eV)

82-Pb-206

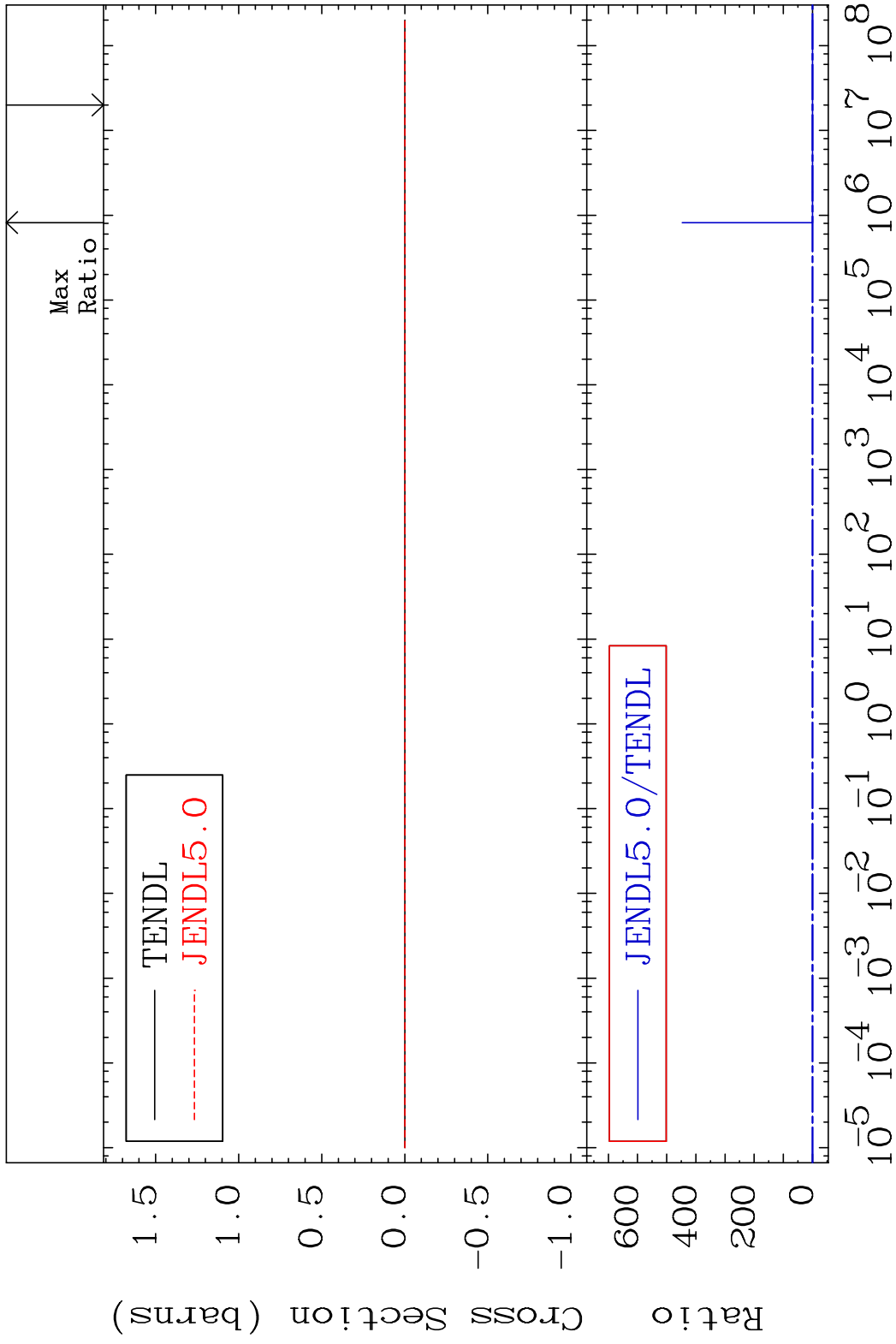
MAT 8231 Kerma non-elastic (all but mt2) 82-Pb-206
 Cross Section -62.95 To 9999. %



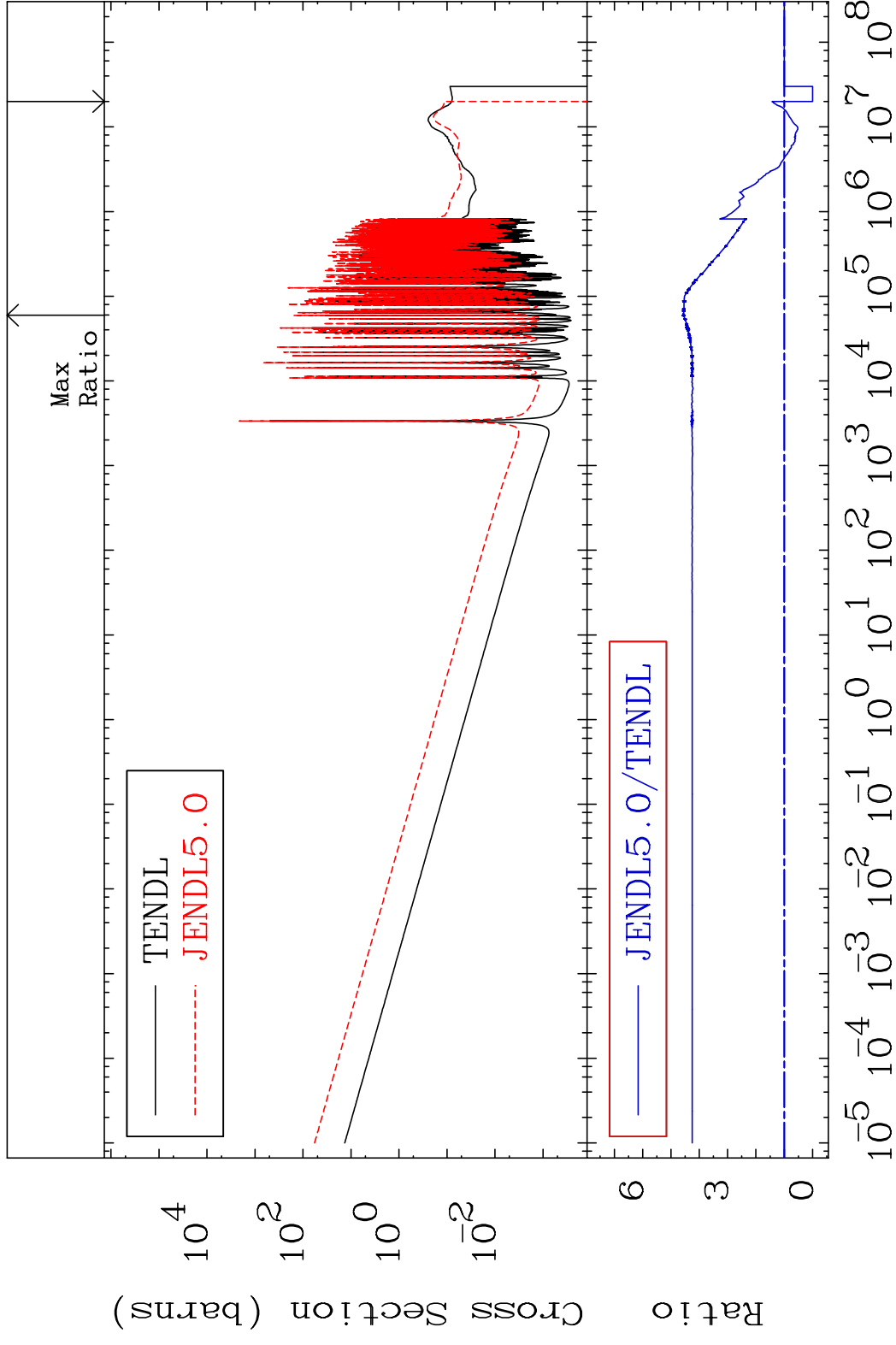
MAT 8231 Kerma inelastic (mt51-91) 82-Pb-206
 Cross Section -100.0 To 9999. %



MAT 8231 Kerma fission (mt18 or mt19-20-21-38) β 2-Pb-206
 Cross Section -100.0 To 9999. %

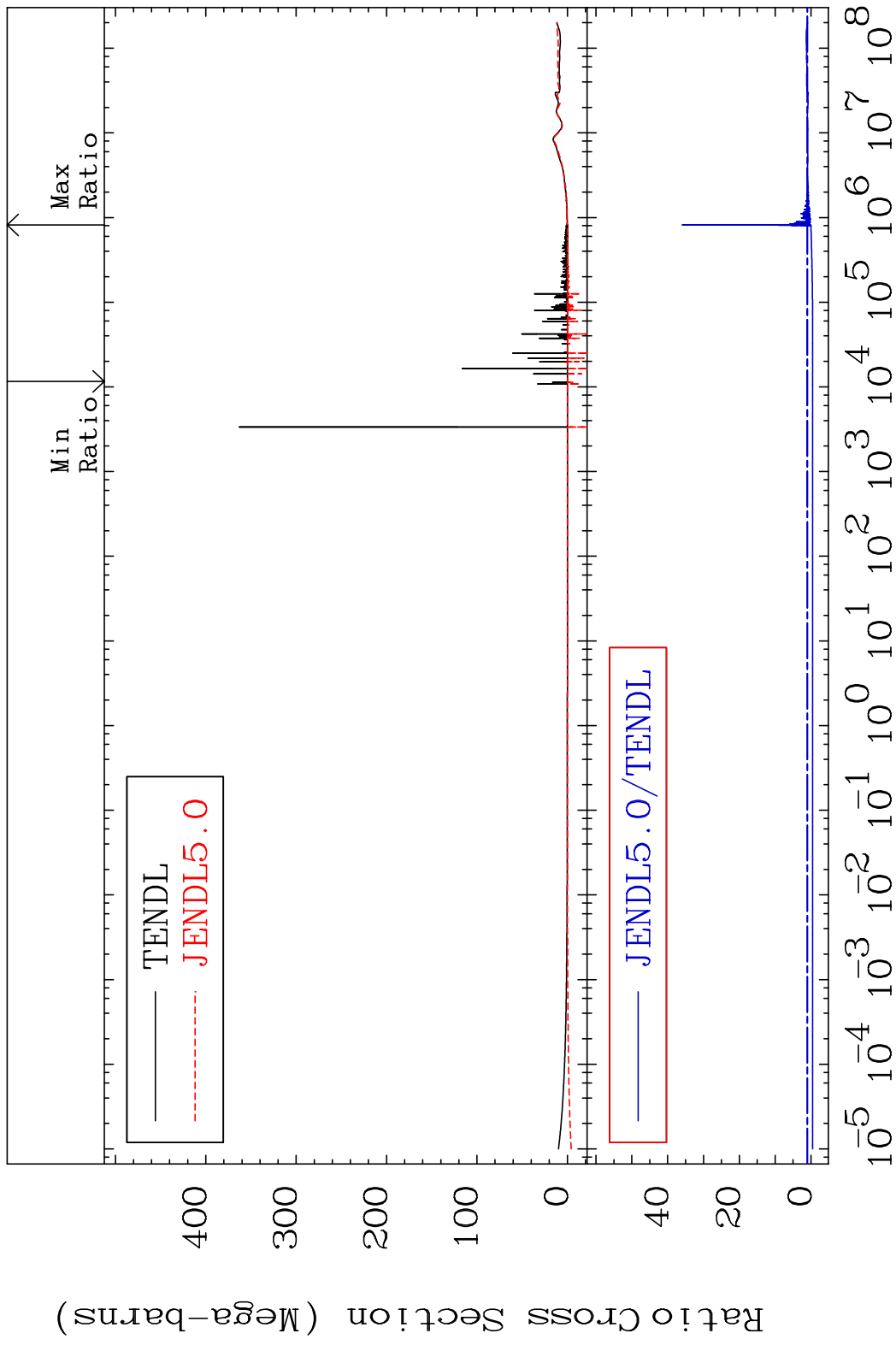


MAT 8231 Kerma capture (mt102) 82-Pb-206
 Cross Section -100.0 To 359.8 %



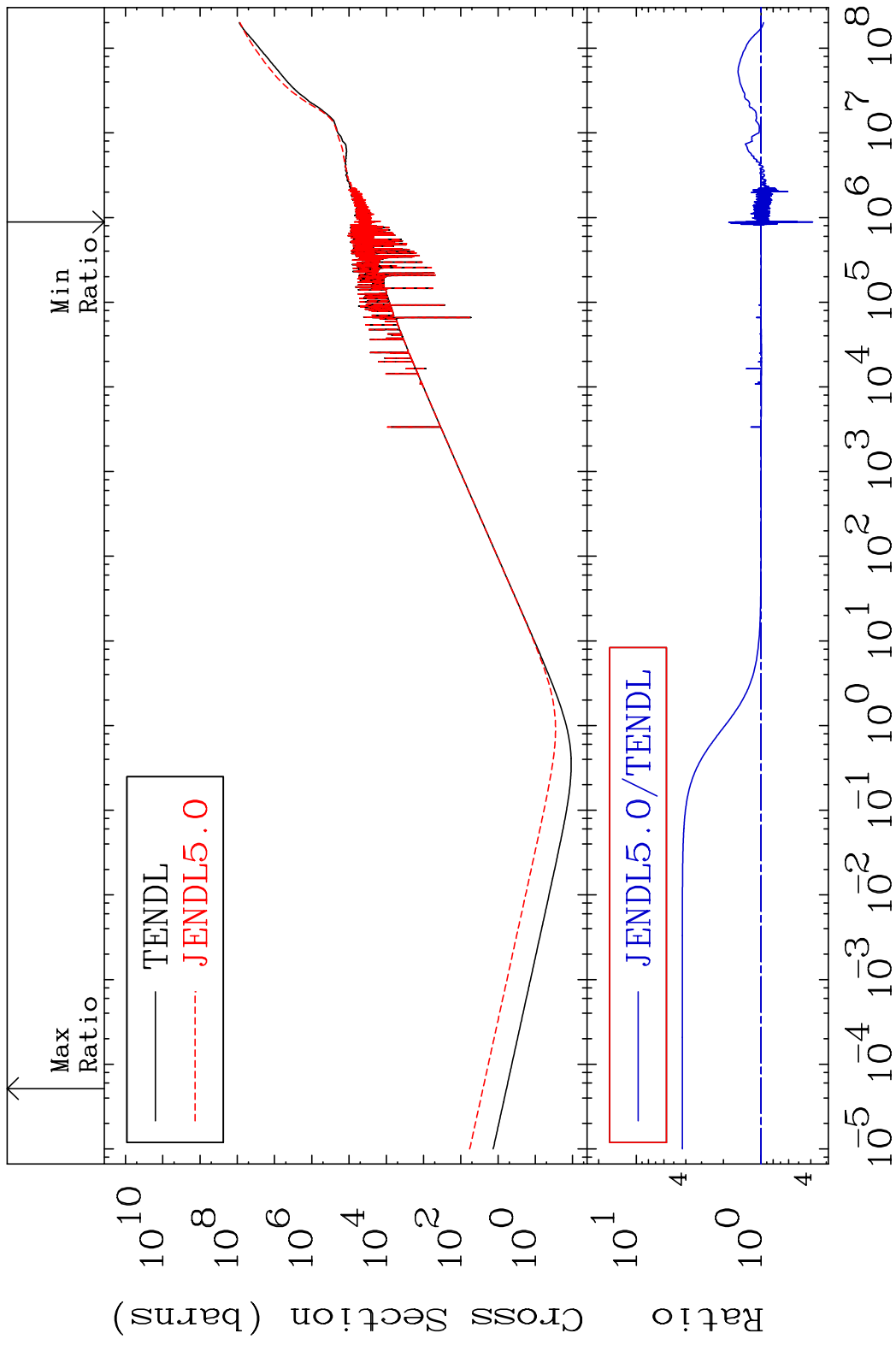
57 Incident Energy (eV) 82-Pb-206

MAT 8231 Total photon (eV-barns) 82-Pb-206
Cross Section -143.5 To 3490. %



58 Incident Energy (eV) 82-Pb-206

MAT 8231 Total kinematic kerma (high limit) 82-Pb-206
 Cross Section -61.31 To 327.1 %

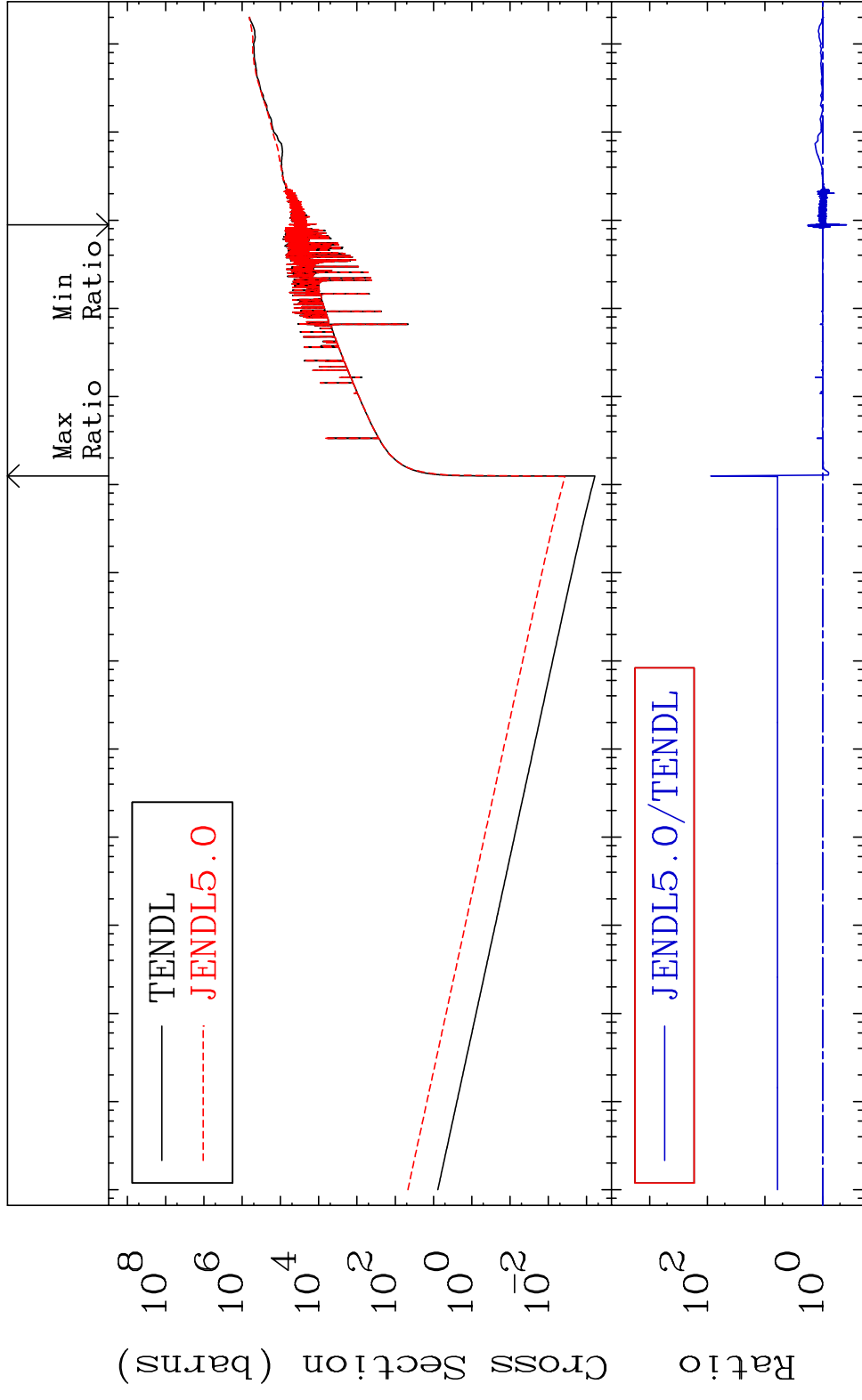


MAT 8231

Dpa total (eV-barns)

82-Pb-206

Cross Section -61.09 To 8642. %



60

Incident Energy (eV)

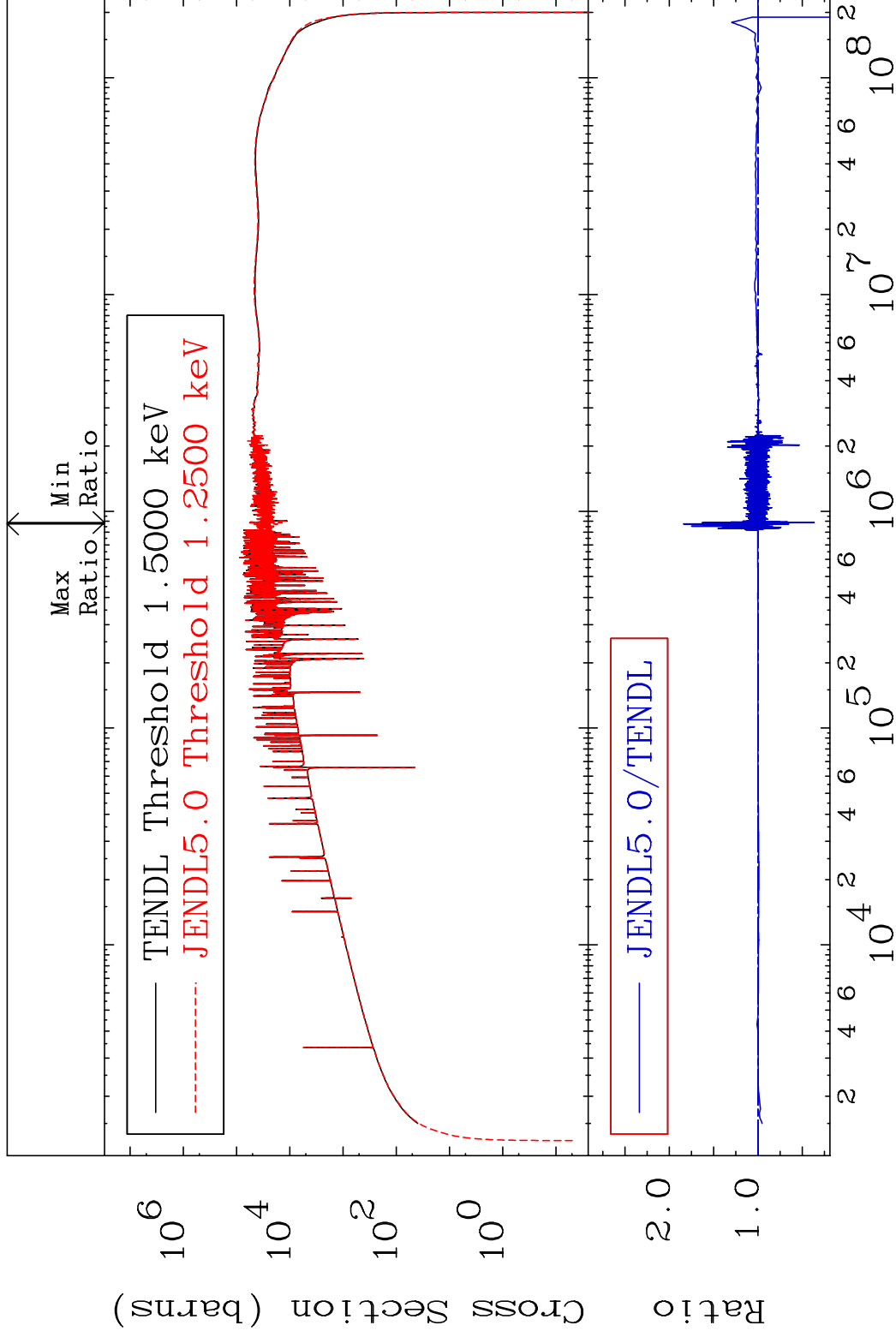
82-Pb-206

MAT 8231

Dpa elastic (mt2)

82-Pb-206

Cross Section -63.27 To 83.85 %

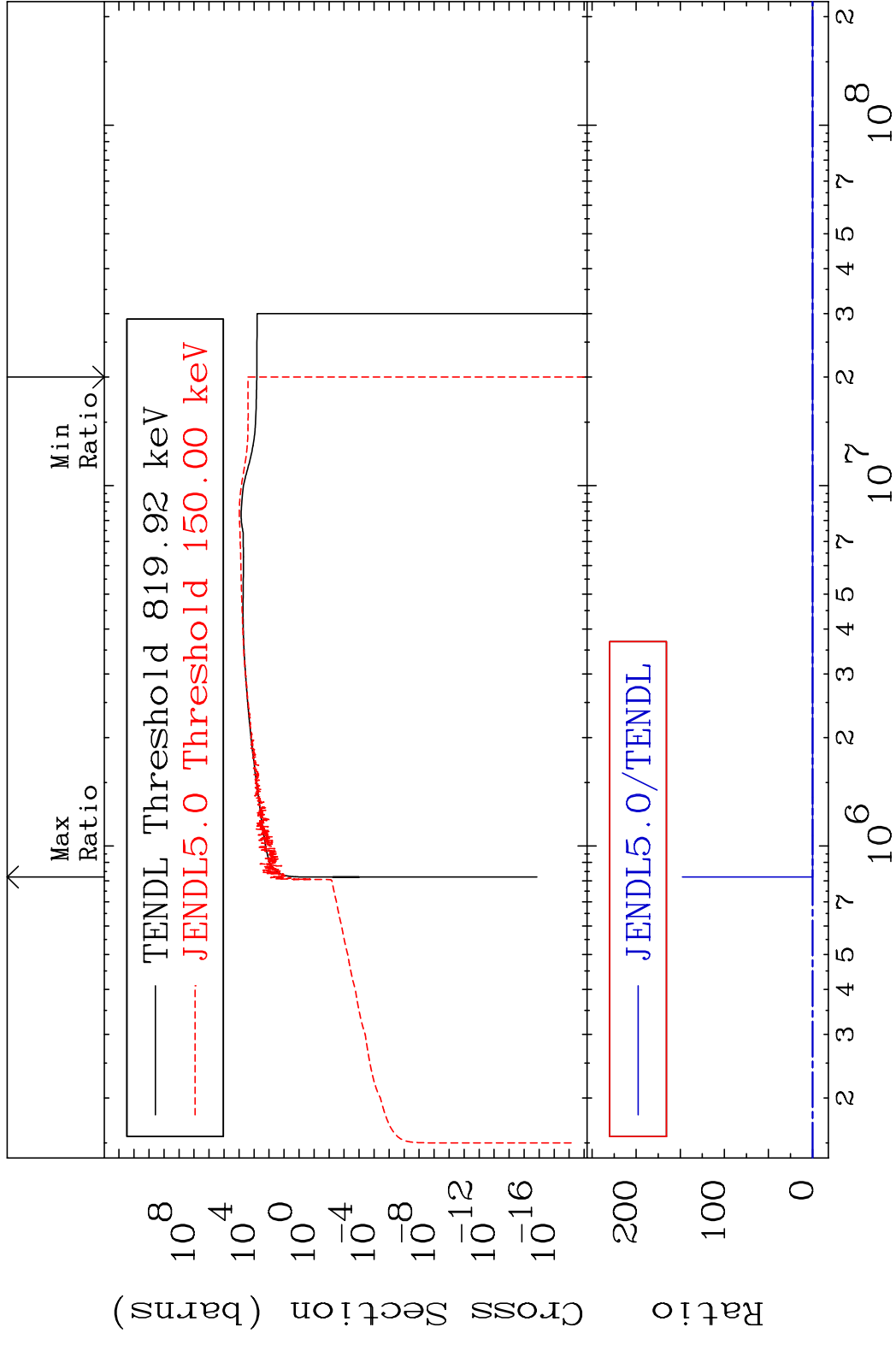


61

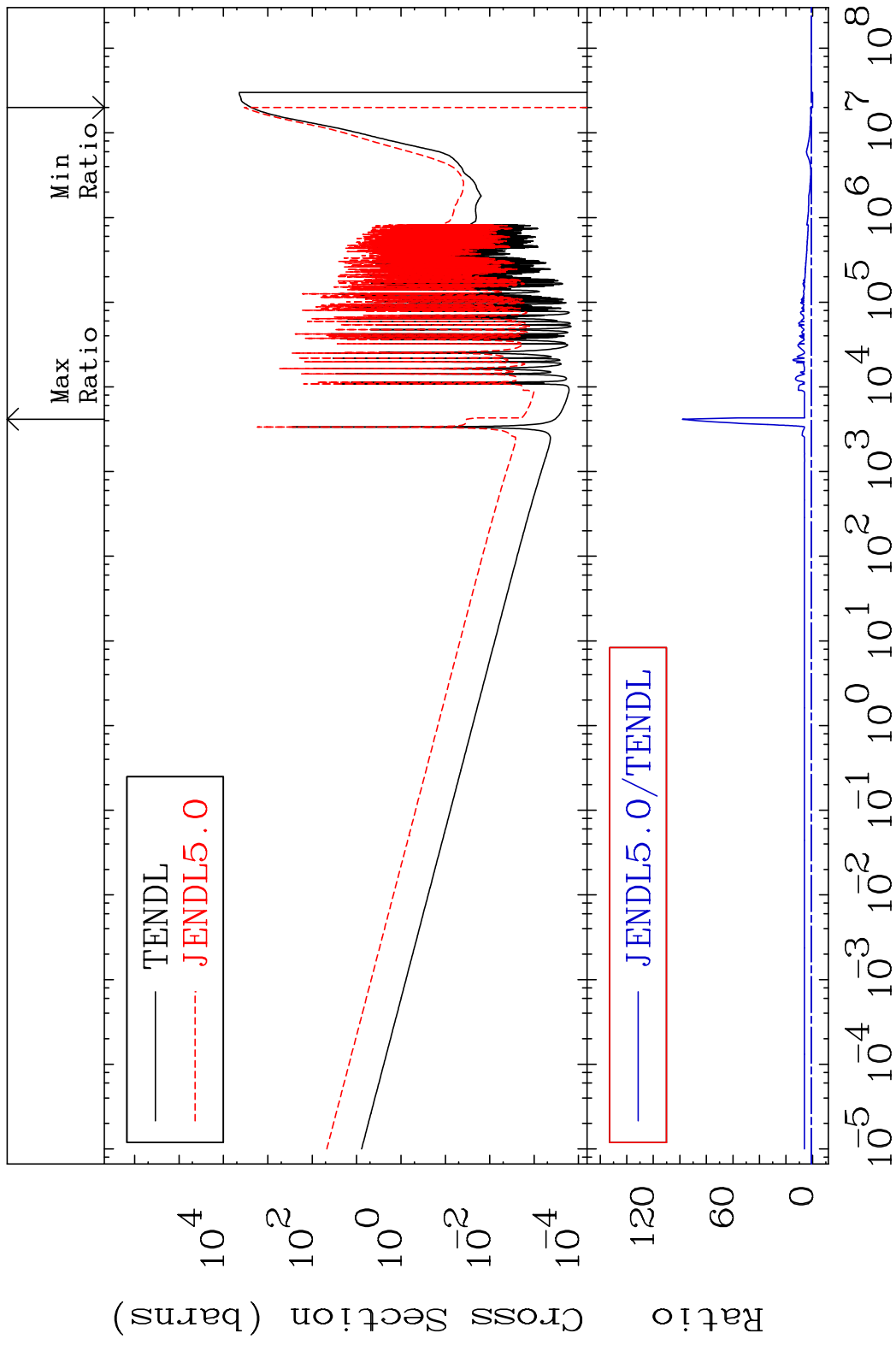
Incident Energy (eV)

82-Pb-206

MAT 8231 Dpa inelastic (mt51-91) 82-Pb-206
 Cross Section -100.0 To 9999. %

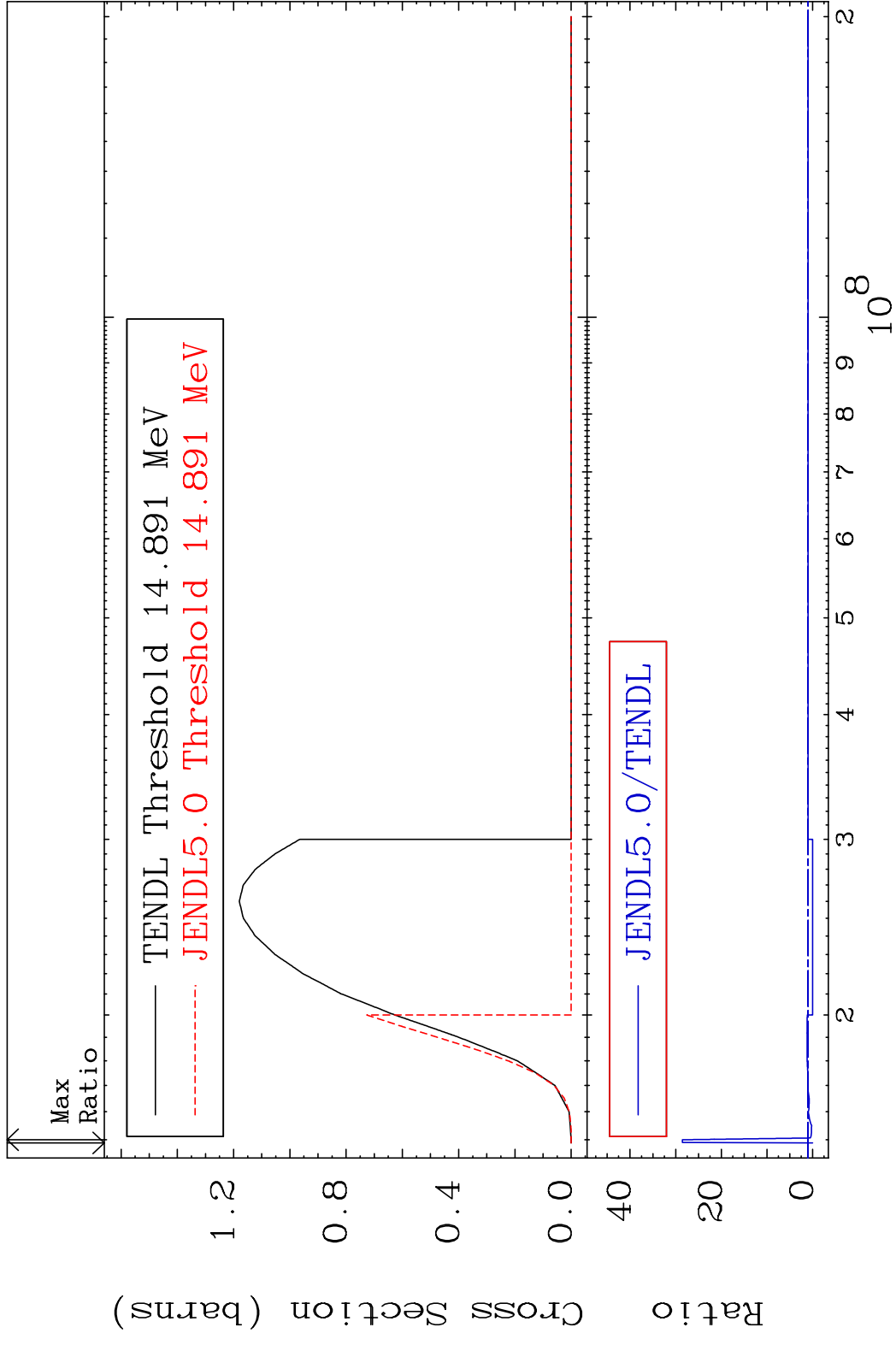


MAT 8231 Dpa disappearance (mt102 -120) 82-Pb-206
 Cross Section -100.0 To 9710. %



63 Incident Energy (eV) 82-Pb-206

MAT 8231 (n,3n):82-Pb-204g 82-Pb-206
 Radionuclide Production Cross Section 180.01 dth 2754. %



MAT 8231 (n, 3n): 82-Pb-204m21 82-Pb-206
 Radionuclide Production Cross Section Ratio 37.98 %

