

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

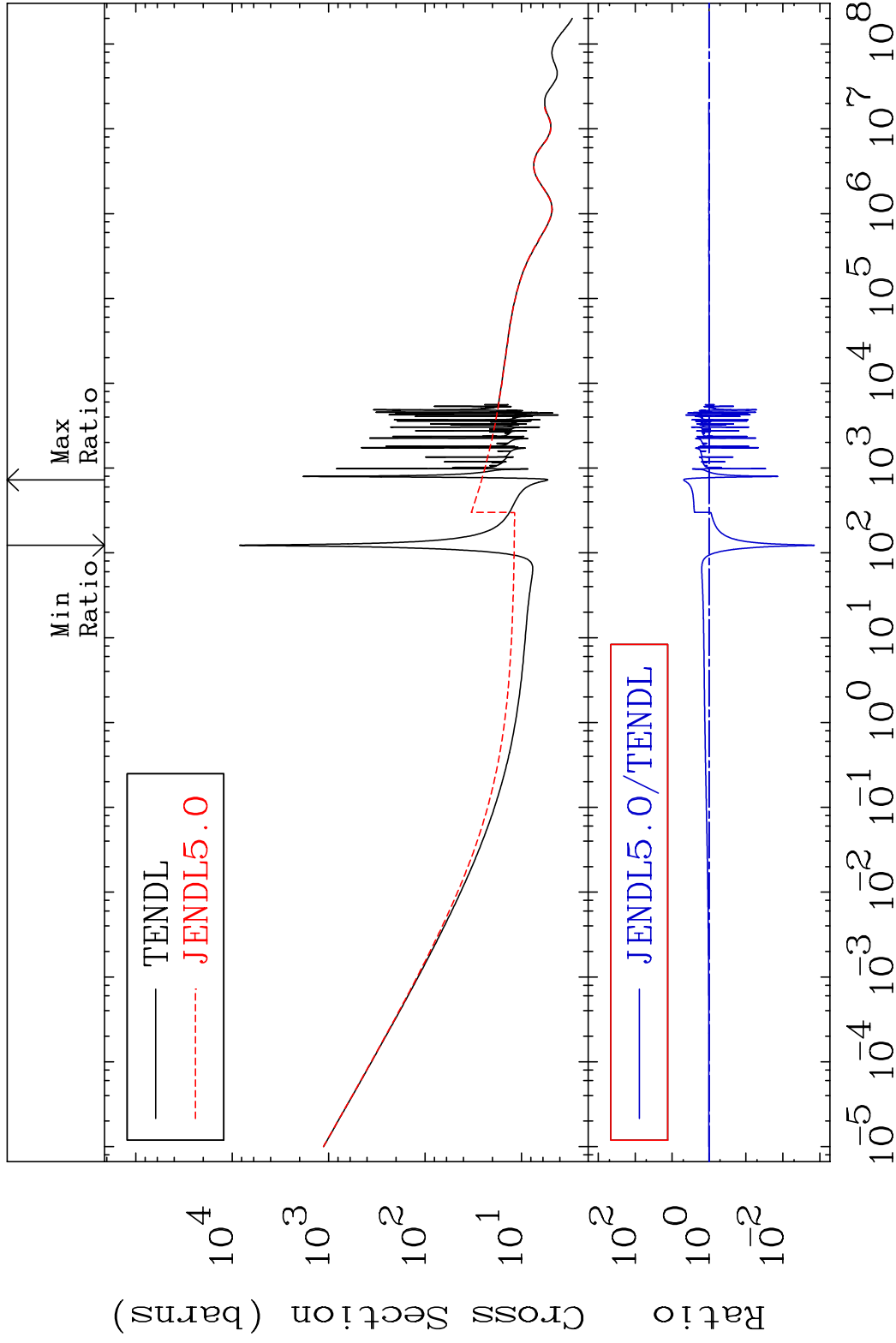
MAT 8128

Total

81-Tl-204

Cross Section

-99.86 To 385.9 %



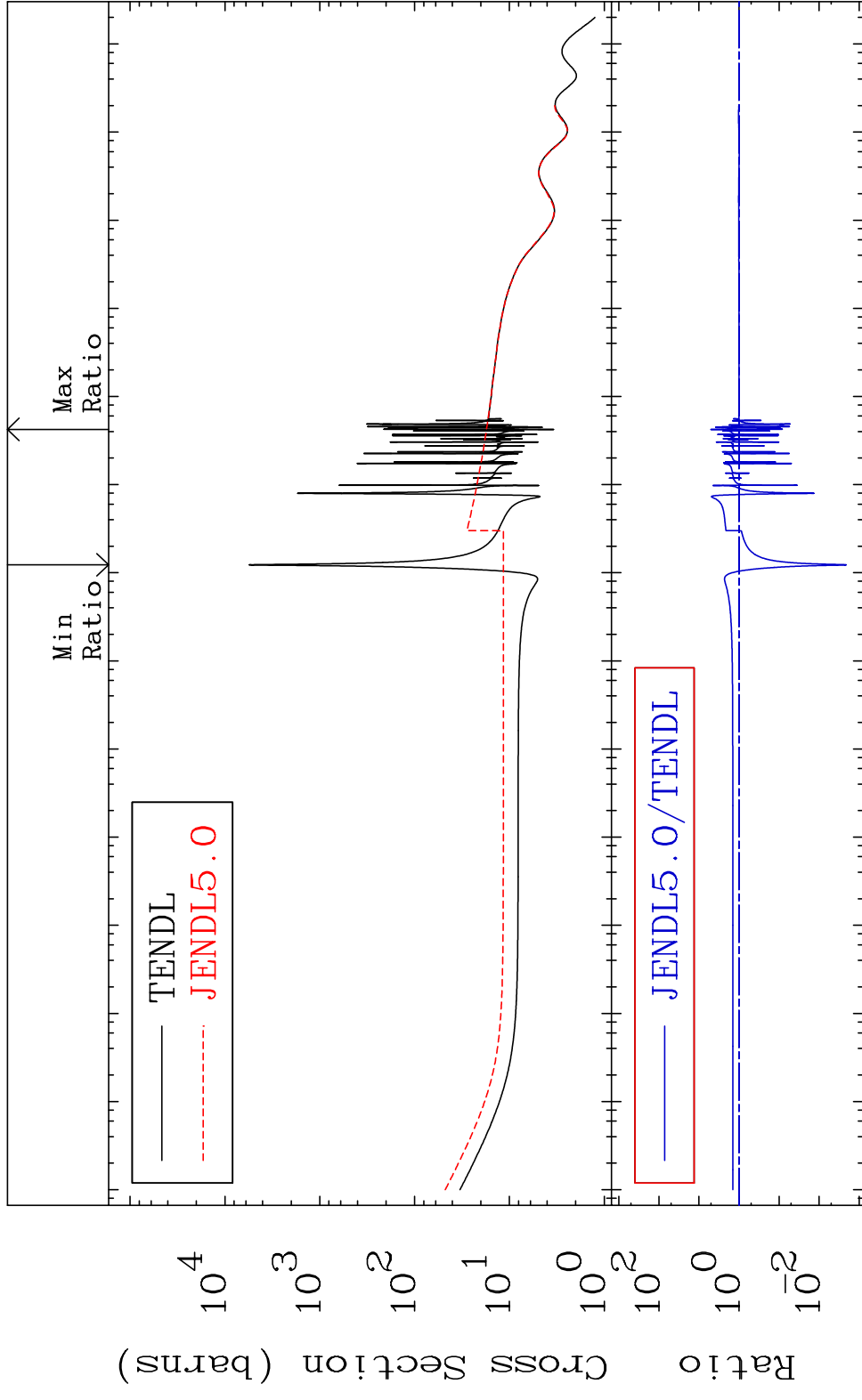
1

Incident Energy (eV)

81-Tl-204

MAT 8128

Elastic Cross Section -99.79 To 409.2 %
81-Tl-204



Ratio
Cross Section (barns)
10⁴
10³
10²
10¹
10⁰
10⁻²
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

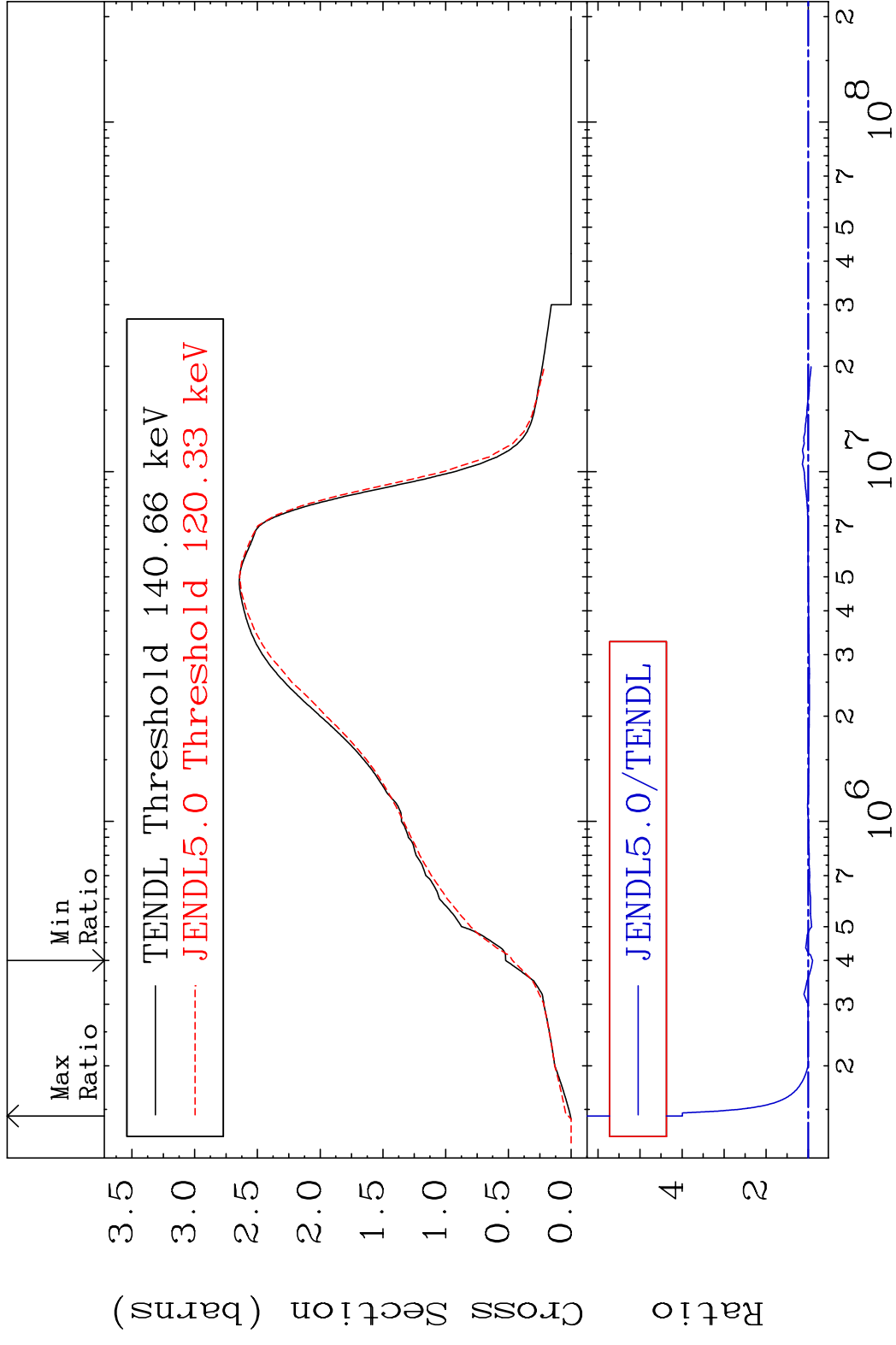
2 Incident Energy (eV) 81-Tl-204

MAT 8128

Inelastic

81-Tl-204

Cross Section -10.38 To 299.3 %

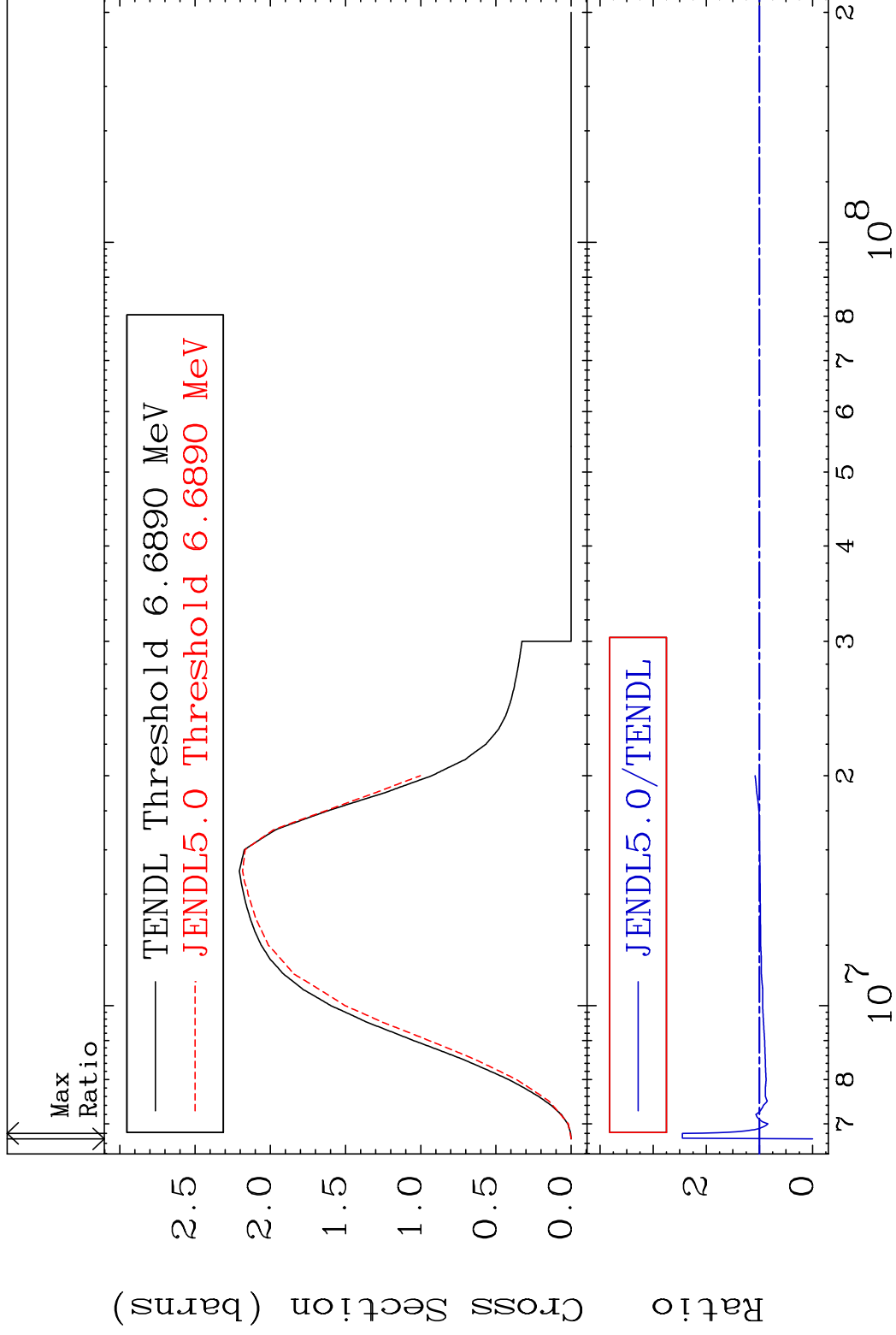


MAT 8128

(n,2n)

81-Tl-204

Cross Section -100.0 To 145.1 %



4

Incident Energy (eV)

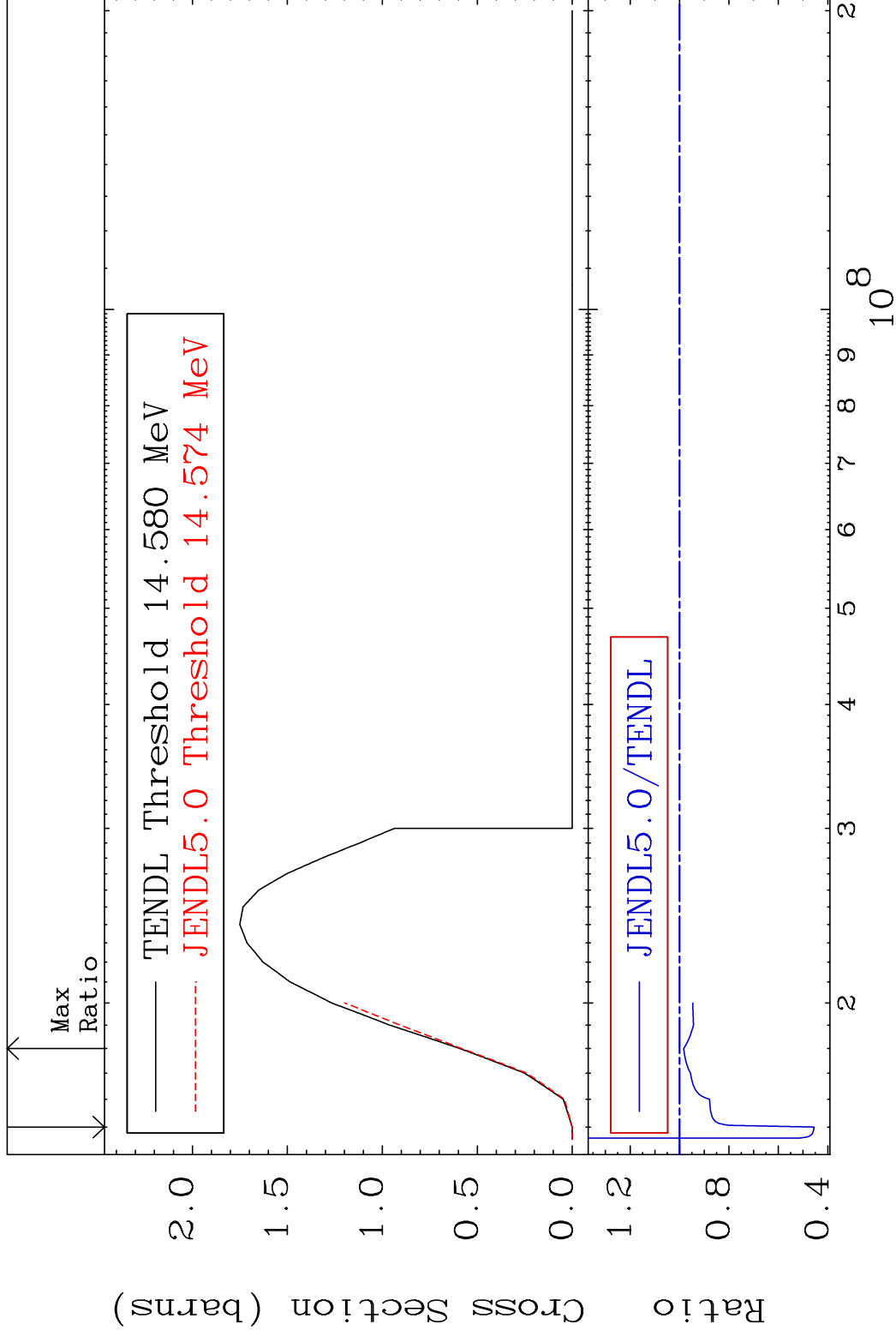
81-Tl-204

MAT 8128

(n,3n)

81-Tl-204

Cross Section -54.47 To -1.673%



5

Incident Energy (eV)

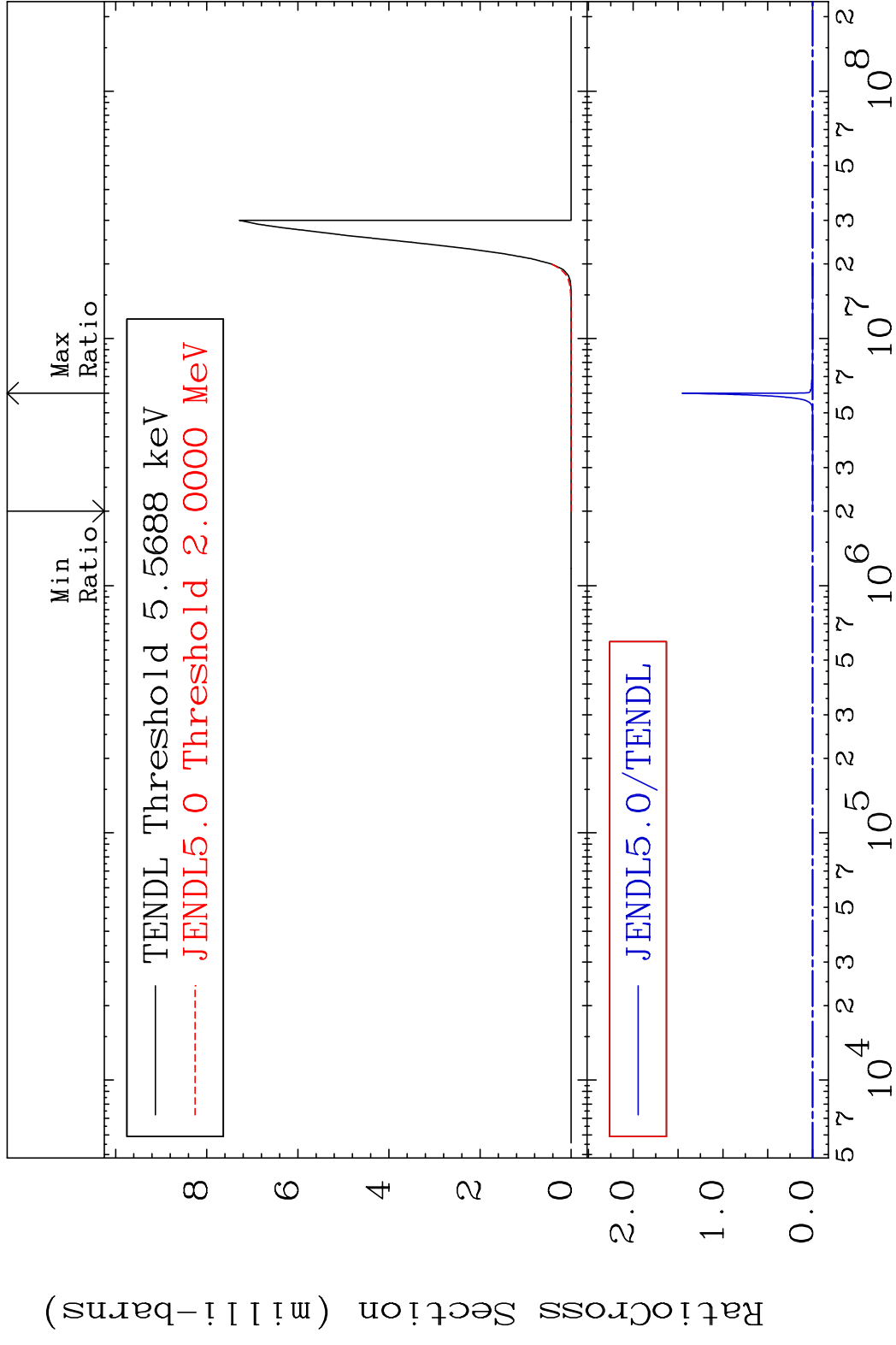
81-Tl-204

MAT 8128

(n, n') α

81-Tl-204

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

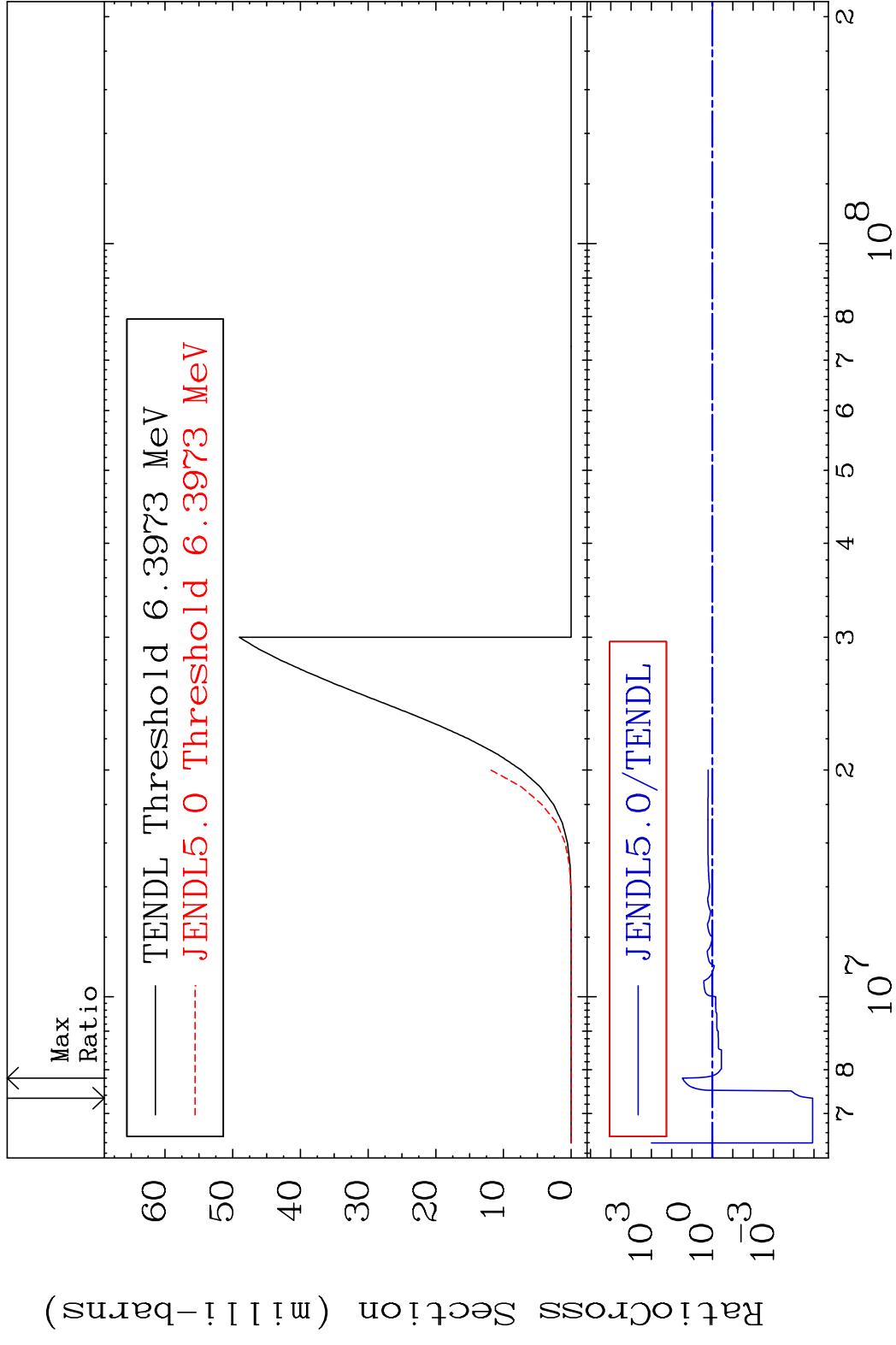
81-Tl-204

MAT 8128

(n, n') p

81-Tl-204

Cross Section -100.0 To 2906. %

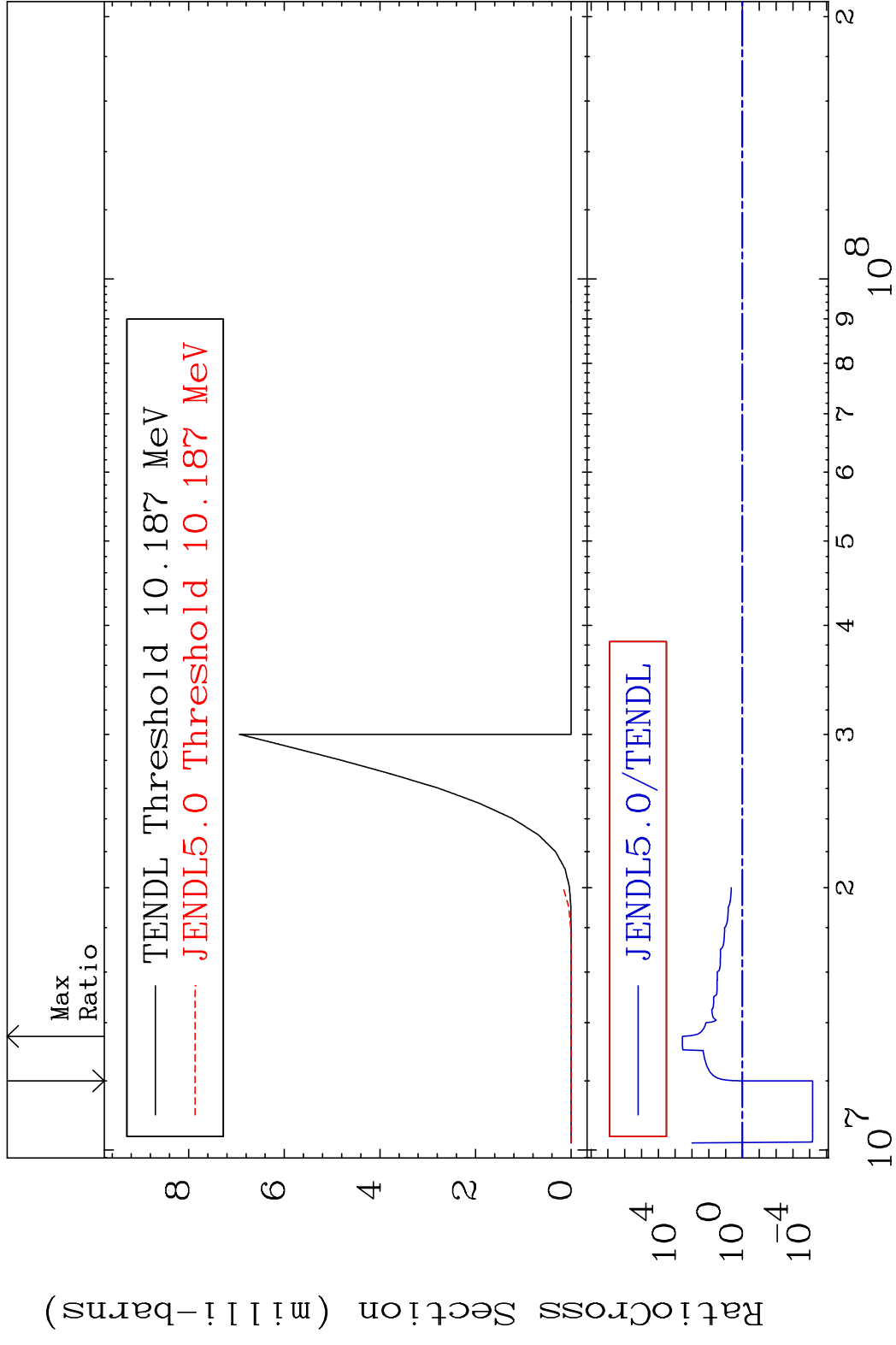


MAT 8128

(n, n') d

81-Tl-204

Cross Section -99.99 To 9999. %



8

Incident Energy (eV)

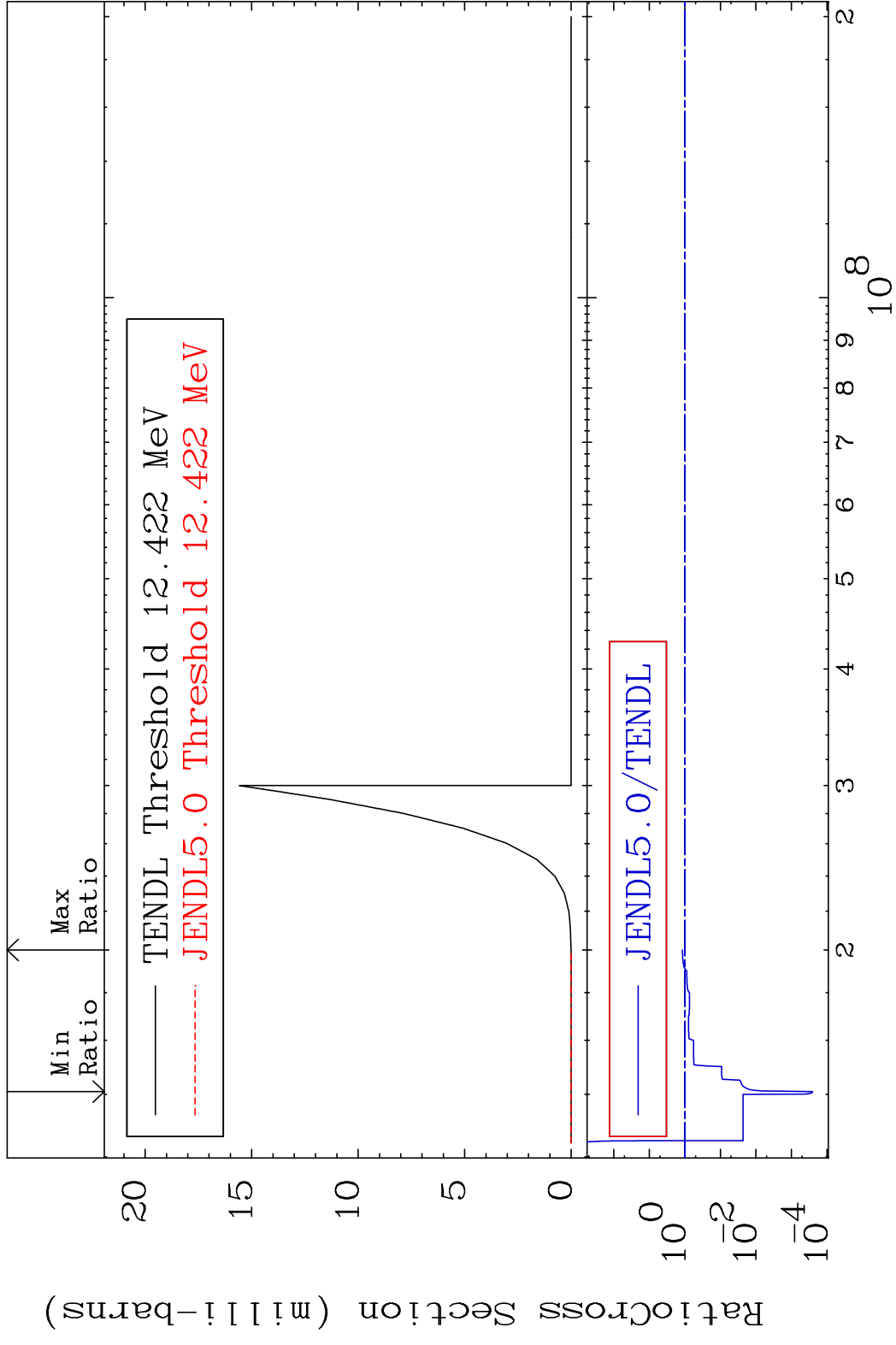
81-Tl-204

MAT 8128

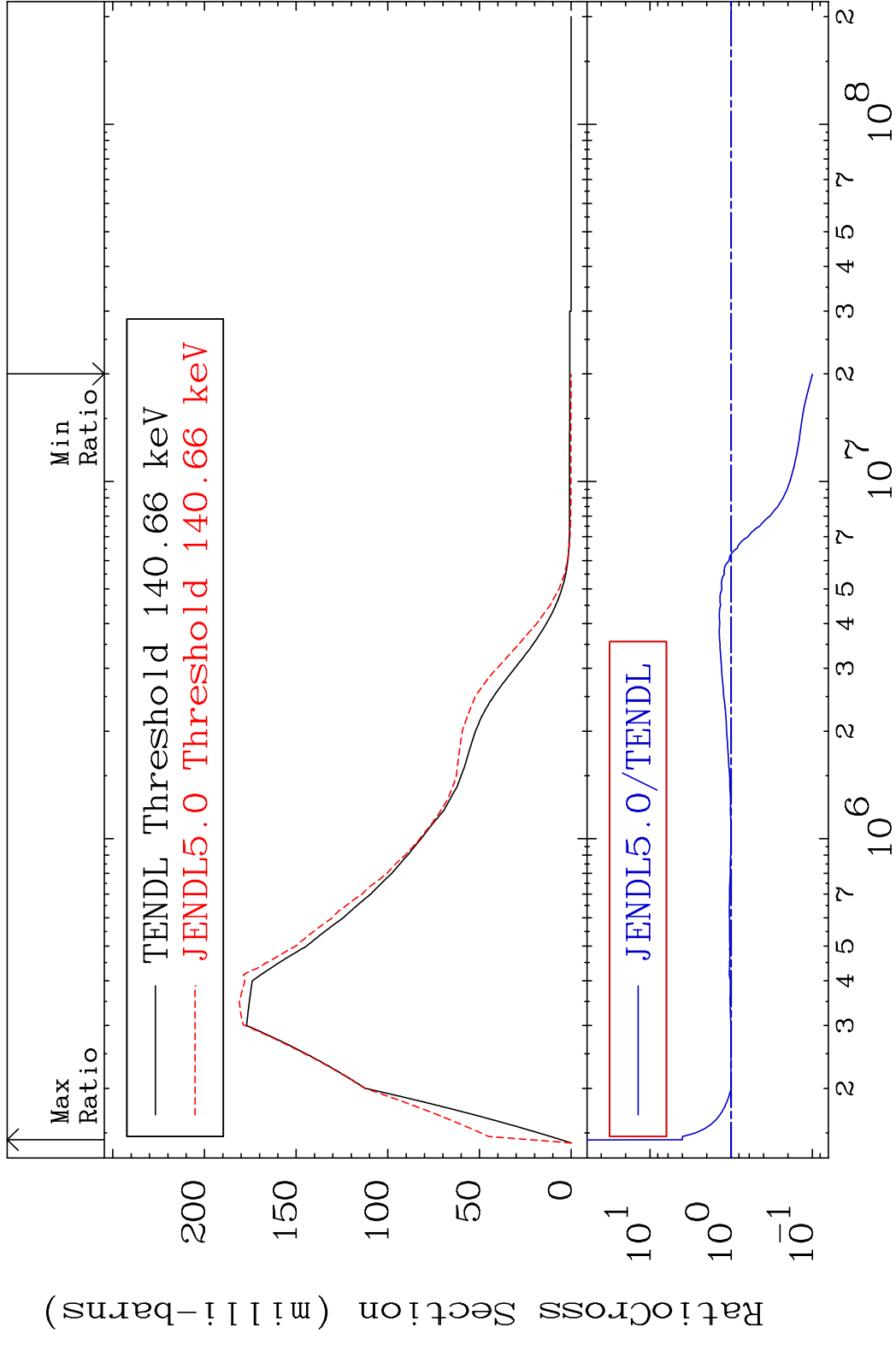
(n,2n) p

81-Tl-204

Cross Section -99.97 To 17.44 %

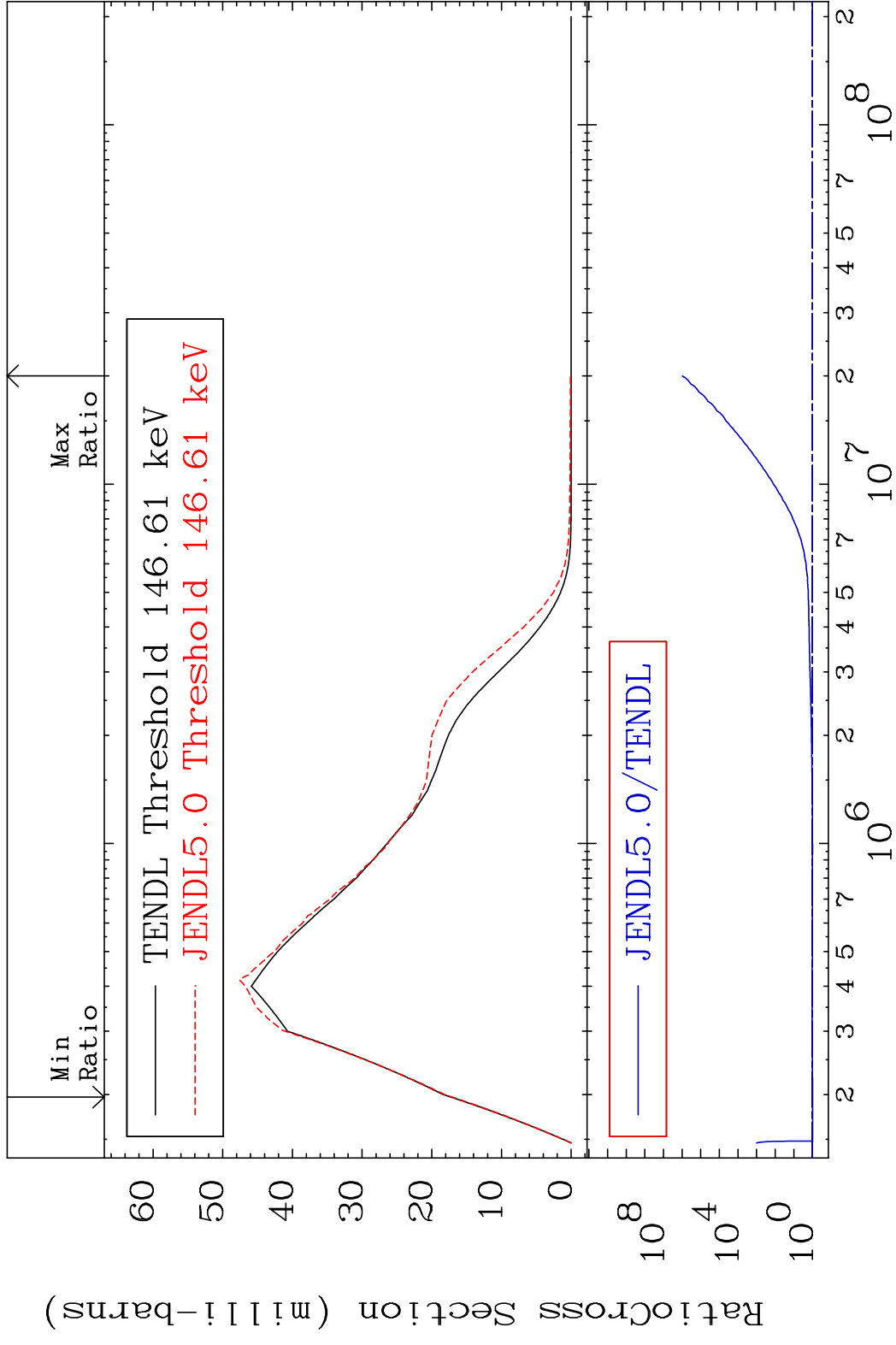


MAT 8128 MT= 51 (n, n') Level 81-Tl-204
 Cross Section -90.06 To 299.3 %

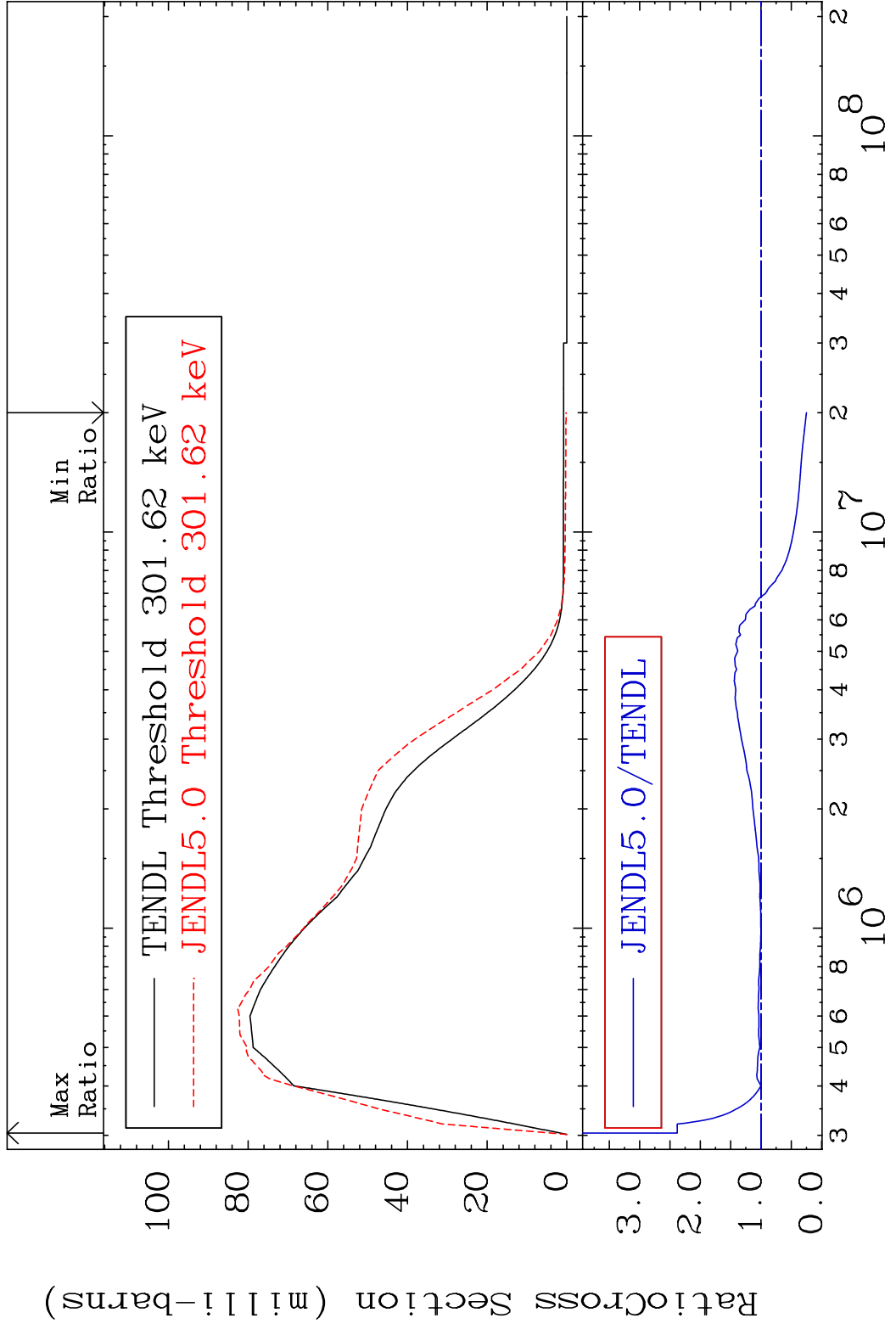


10 Incident Energy (eV) 81-Tl-204

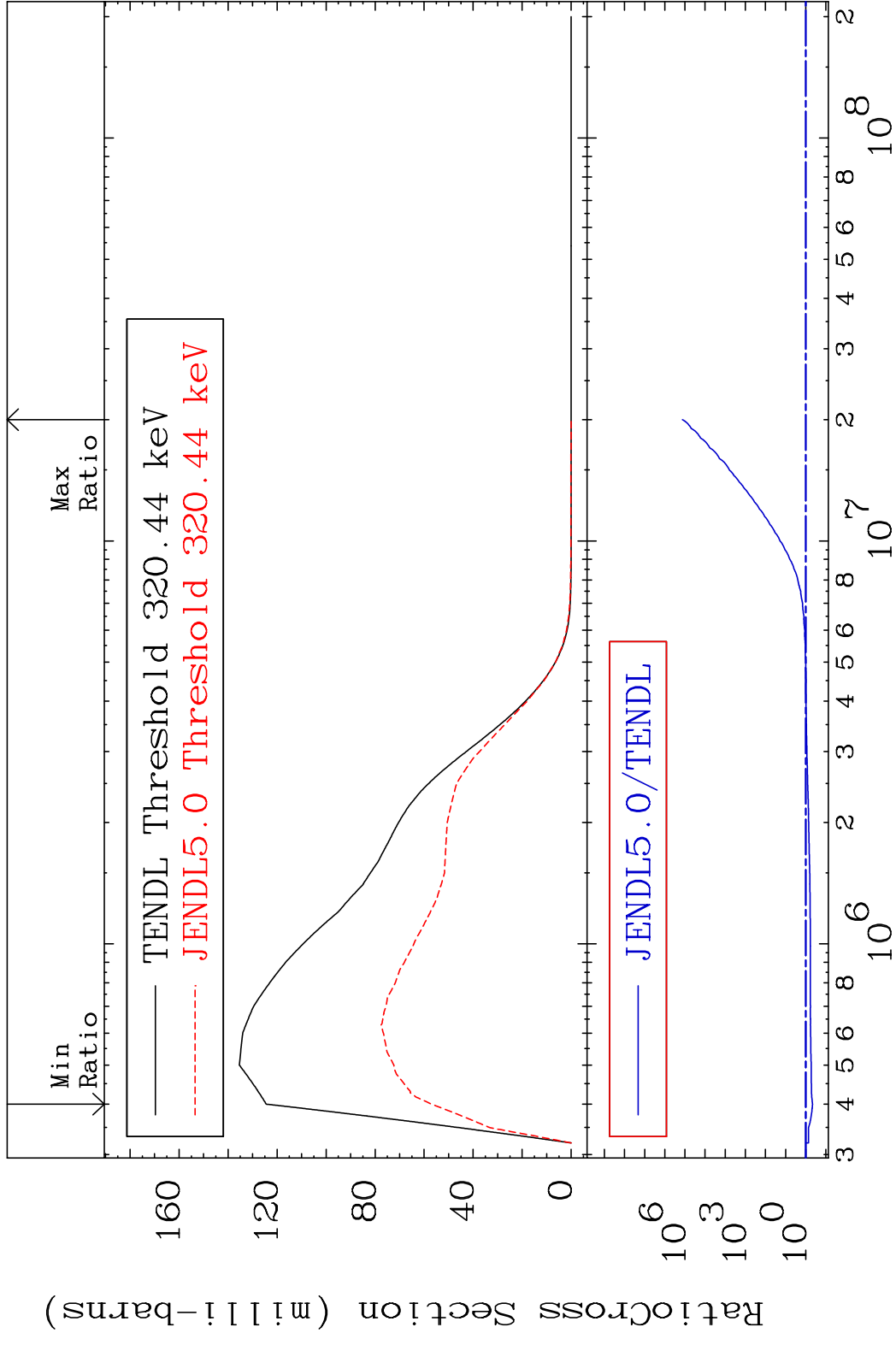
MAT 8128 MT= 52 (n,n') Level 81-Tl-204
 Cross Section -1.111 To 9999. %



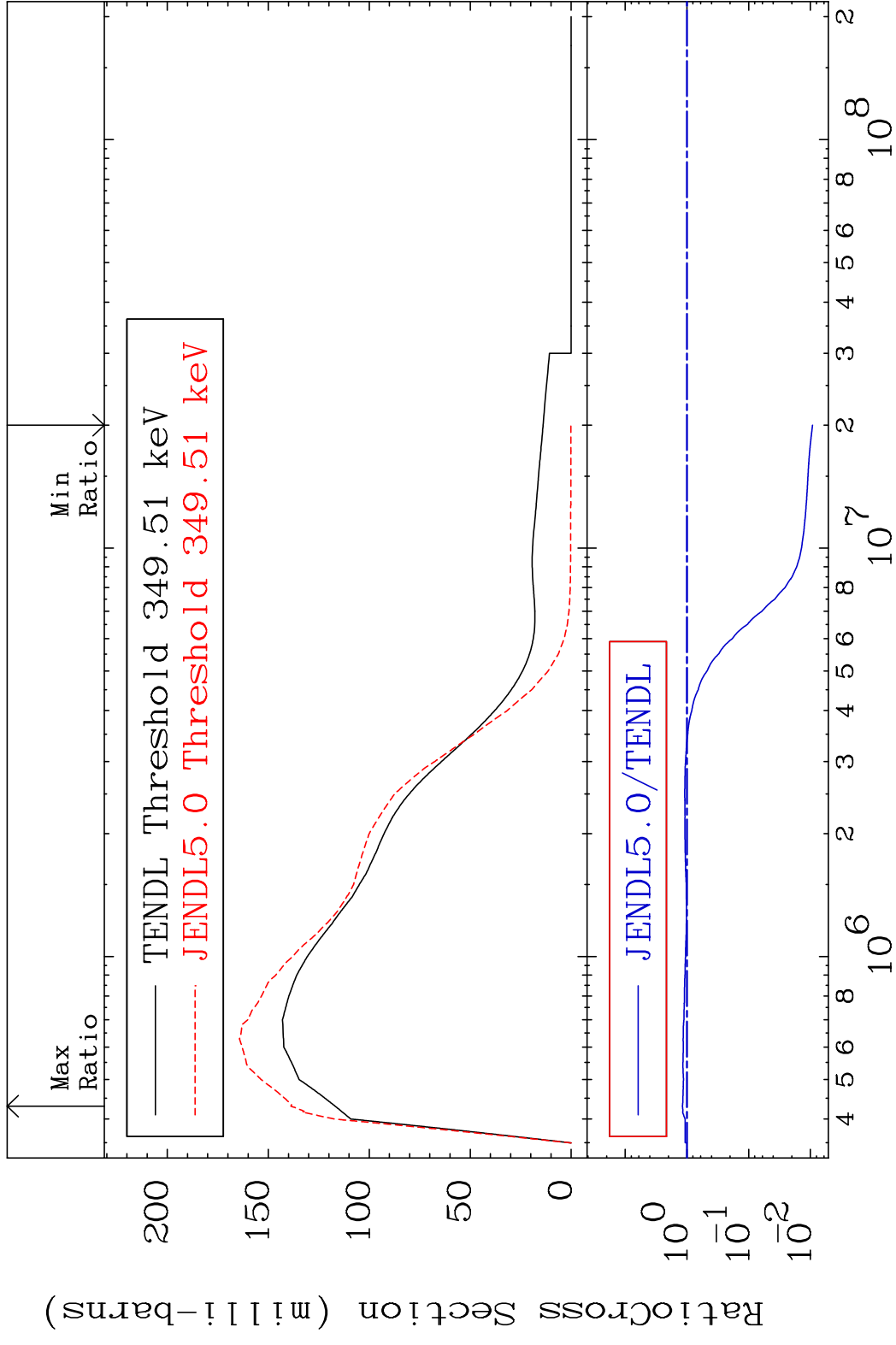
MAT 8128 MT= 53 (n,n') Level 81-Tl-204
 Cross Section -74.77 To 138.2 %



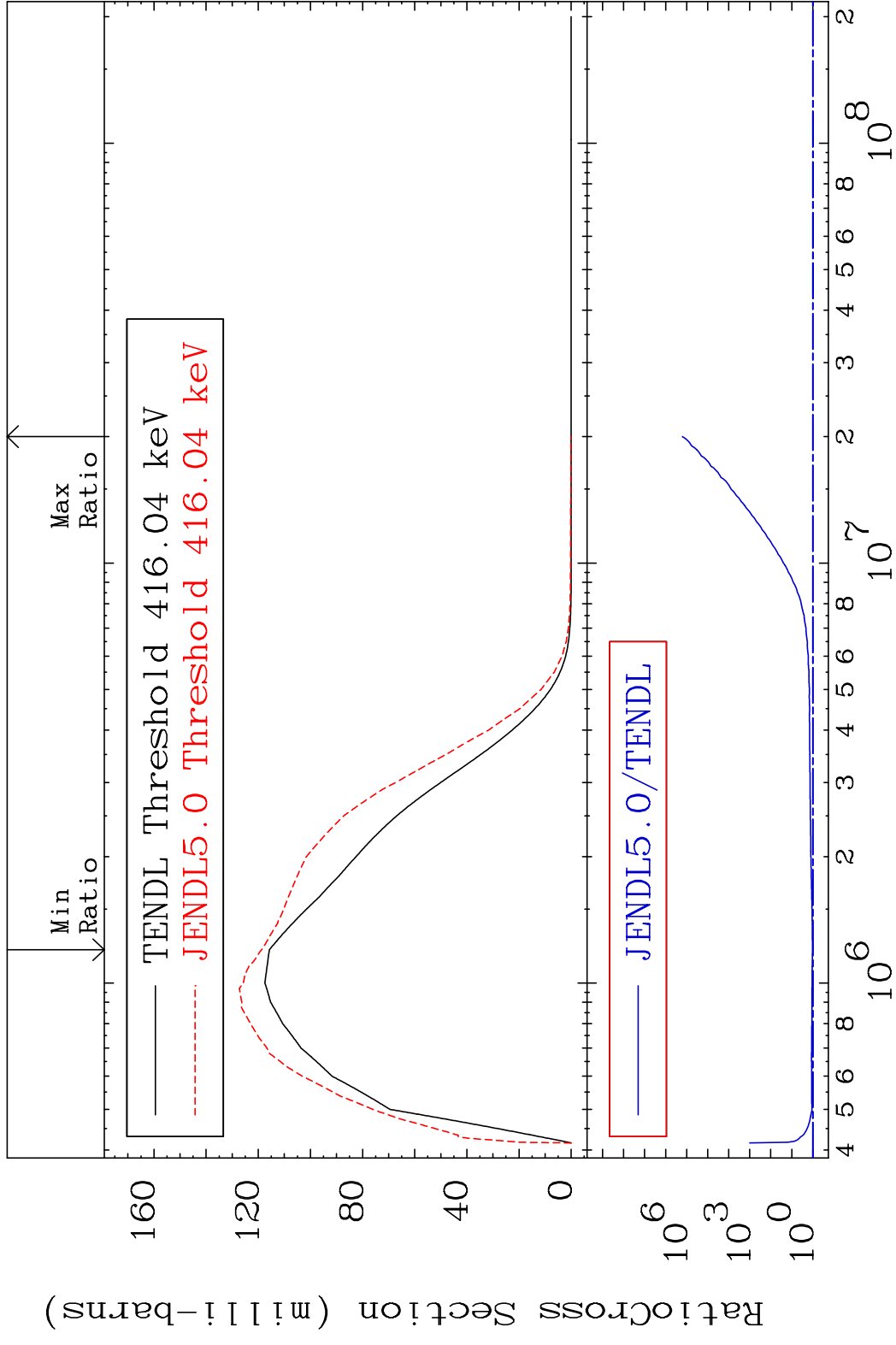
MAT 8128 MT= 54 (n,n') Level 81-Tl-204
 Cross Section -54.19 To 9999. %



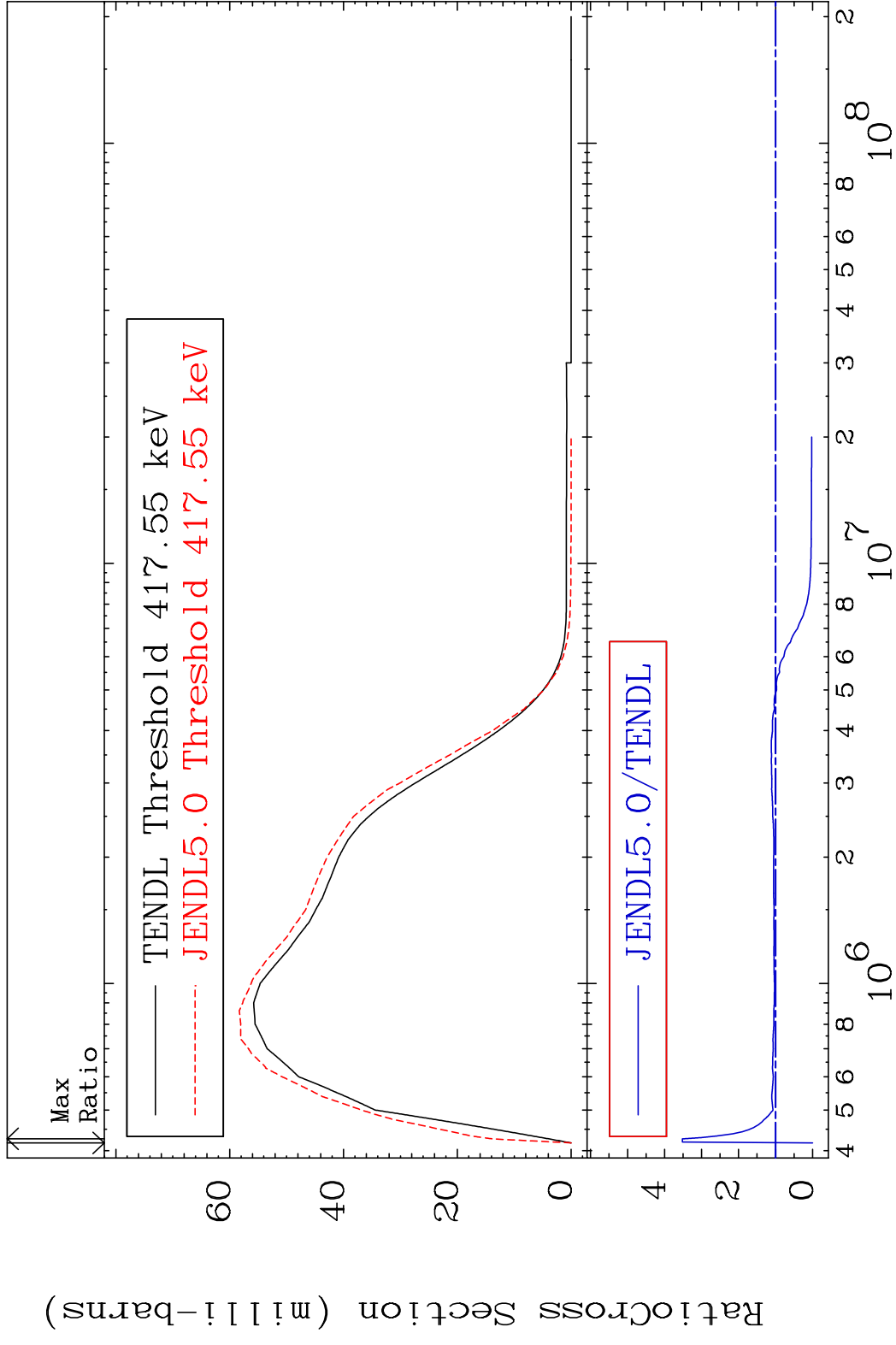
MAT 8128 MT= 55 (n,n') Level 81-Tl-204
 Cross Section -99.08 To 18.78 %



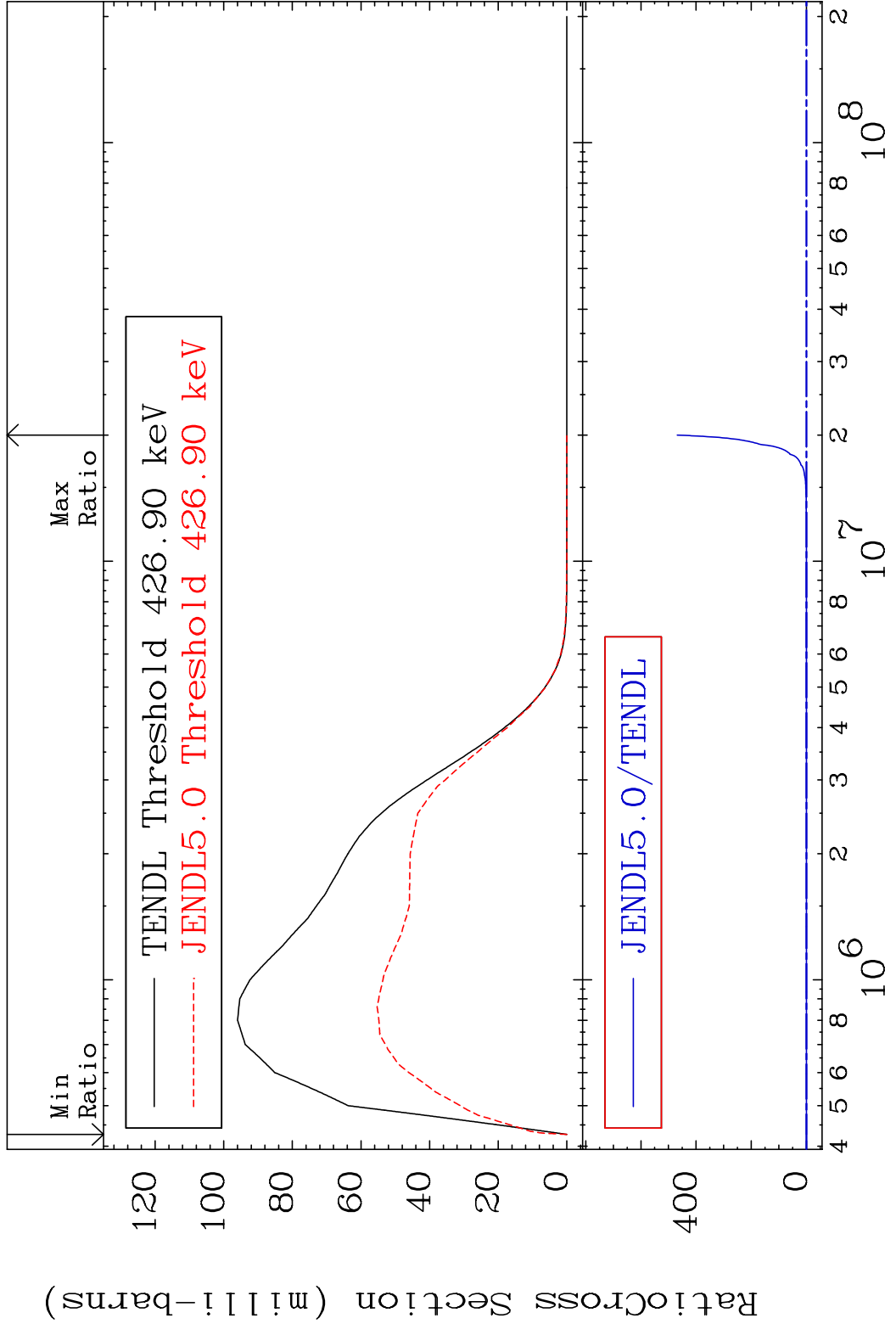
MAT 8128 MT= 56 (n, n') Level 81-Tl-204
 Cross Section 2.599 To 9999. %



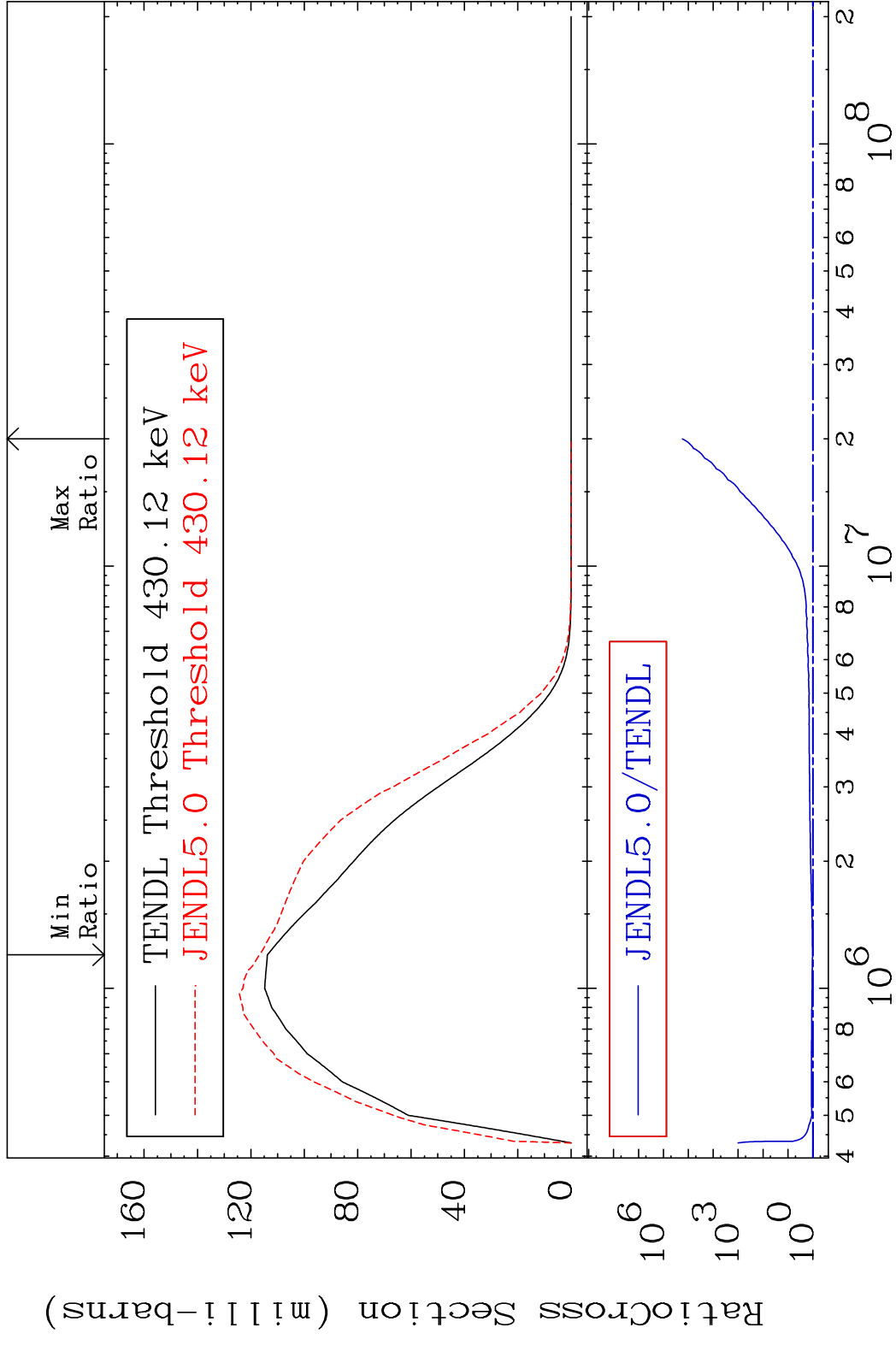
MAT 8128 MT= 57 (n,n') Level 81-Tl-204
 Cross Section -100.0 To 251.9 %



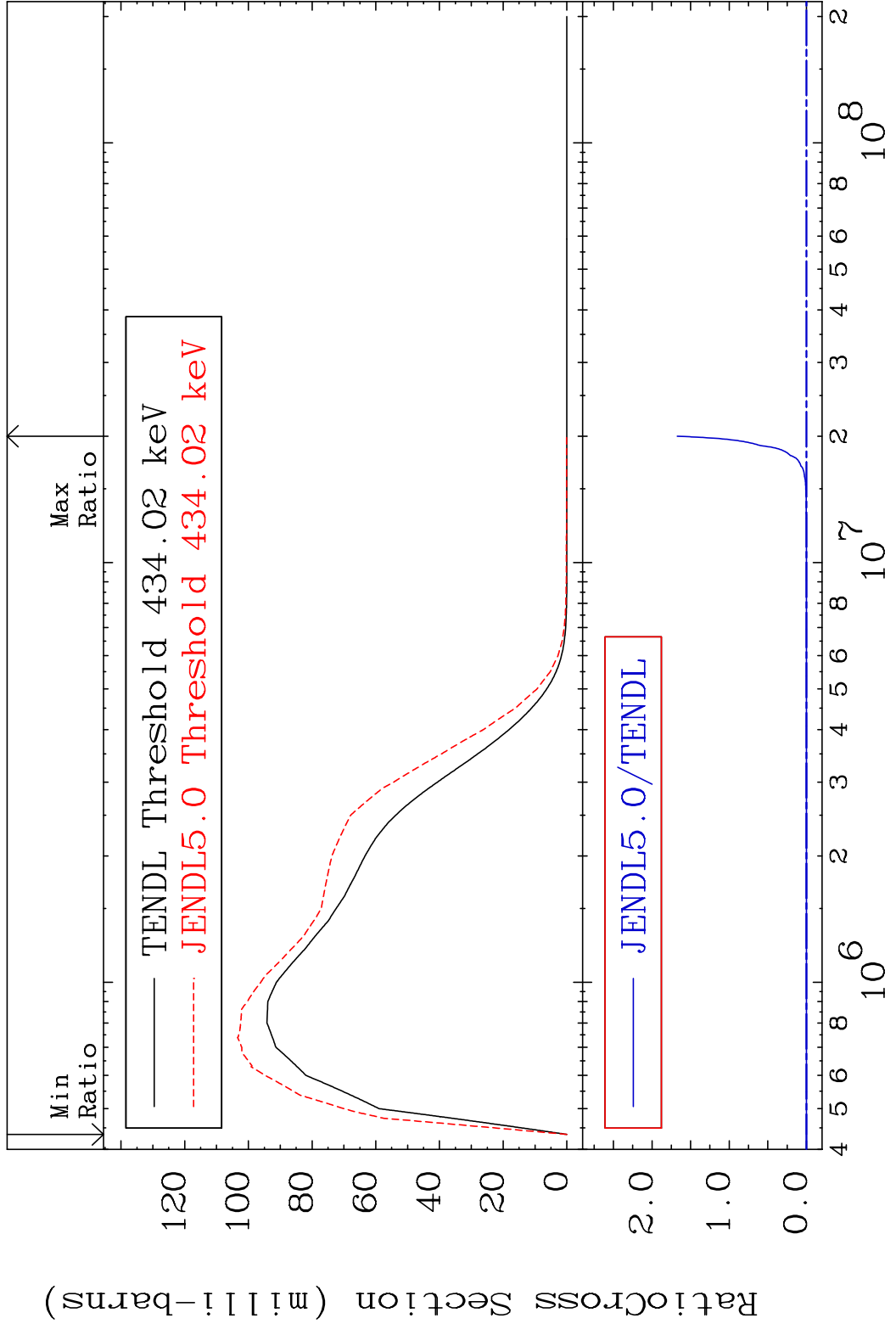
MAT 8128 MT= 58 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %



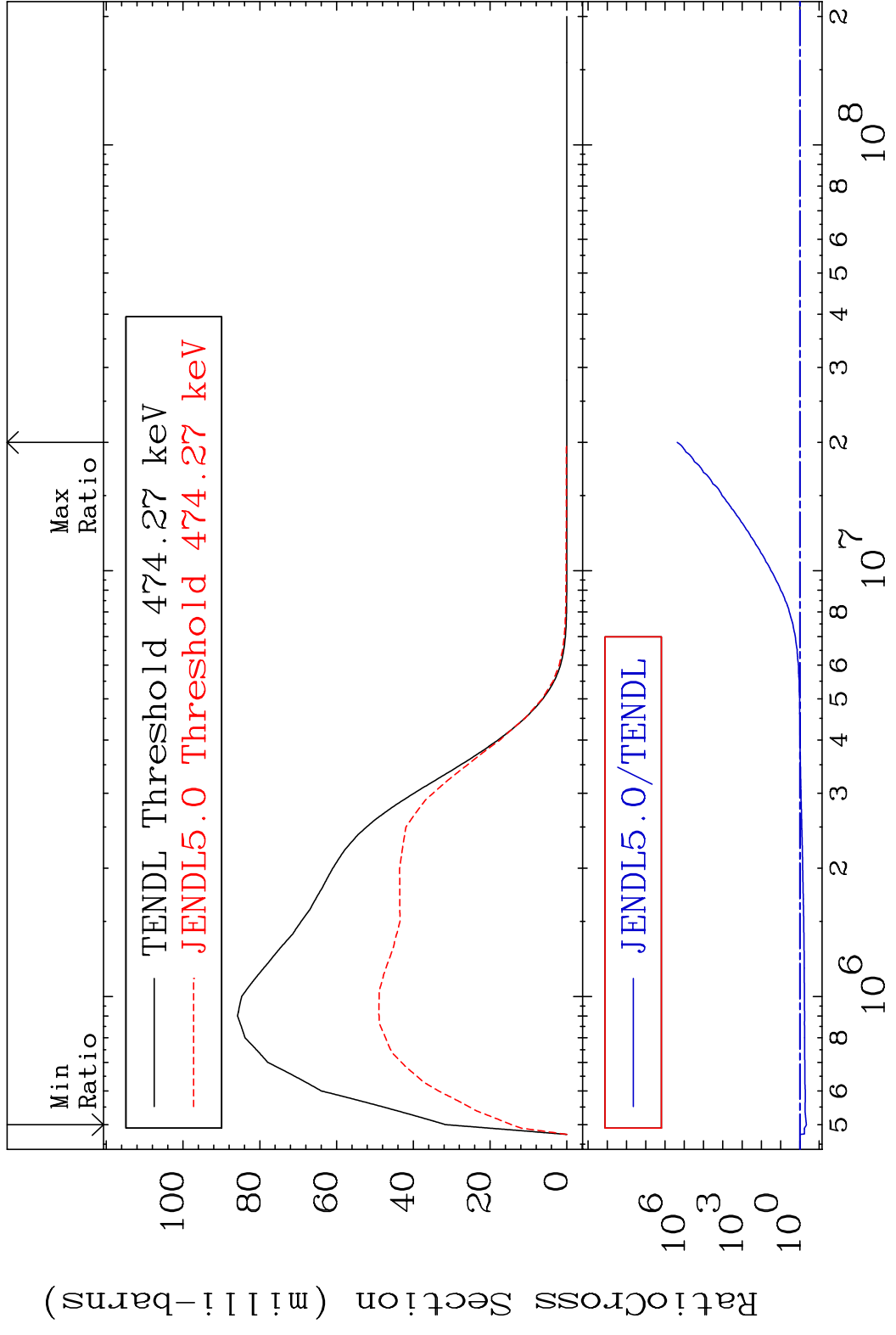
MAT 8128 MT= 59 (n, n') Level 81-Tl-204
 Cross Section 2.597 To 9999. %



MAT 8128 MT= 60 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %

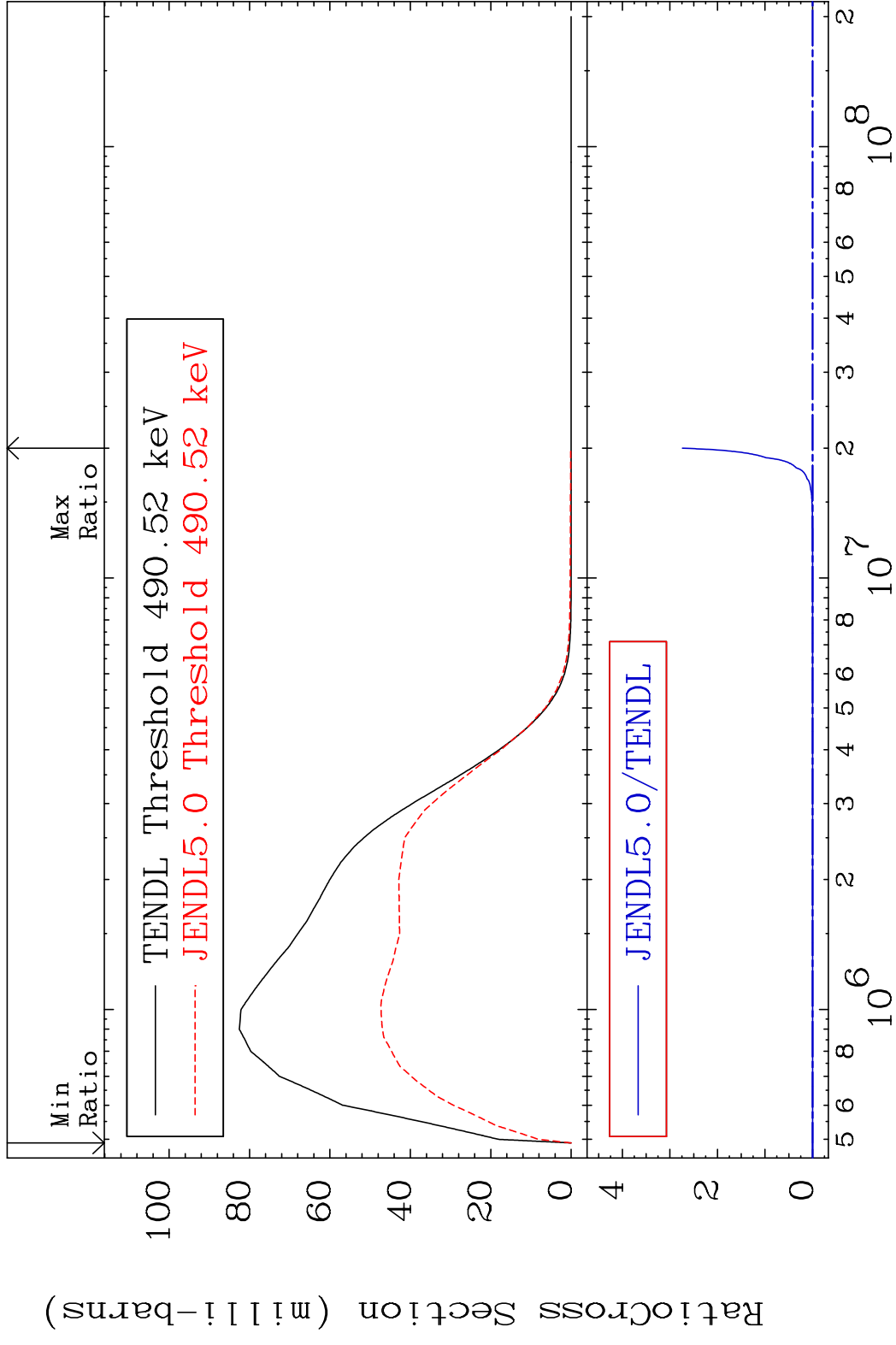


MAT 8128 MT= 61 (n, n') Level 81-Tl-204
 Cross Section -54.23 To 9999. %

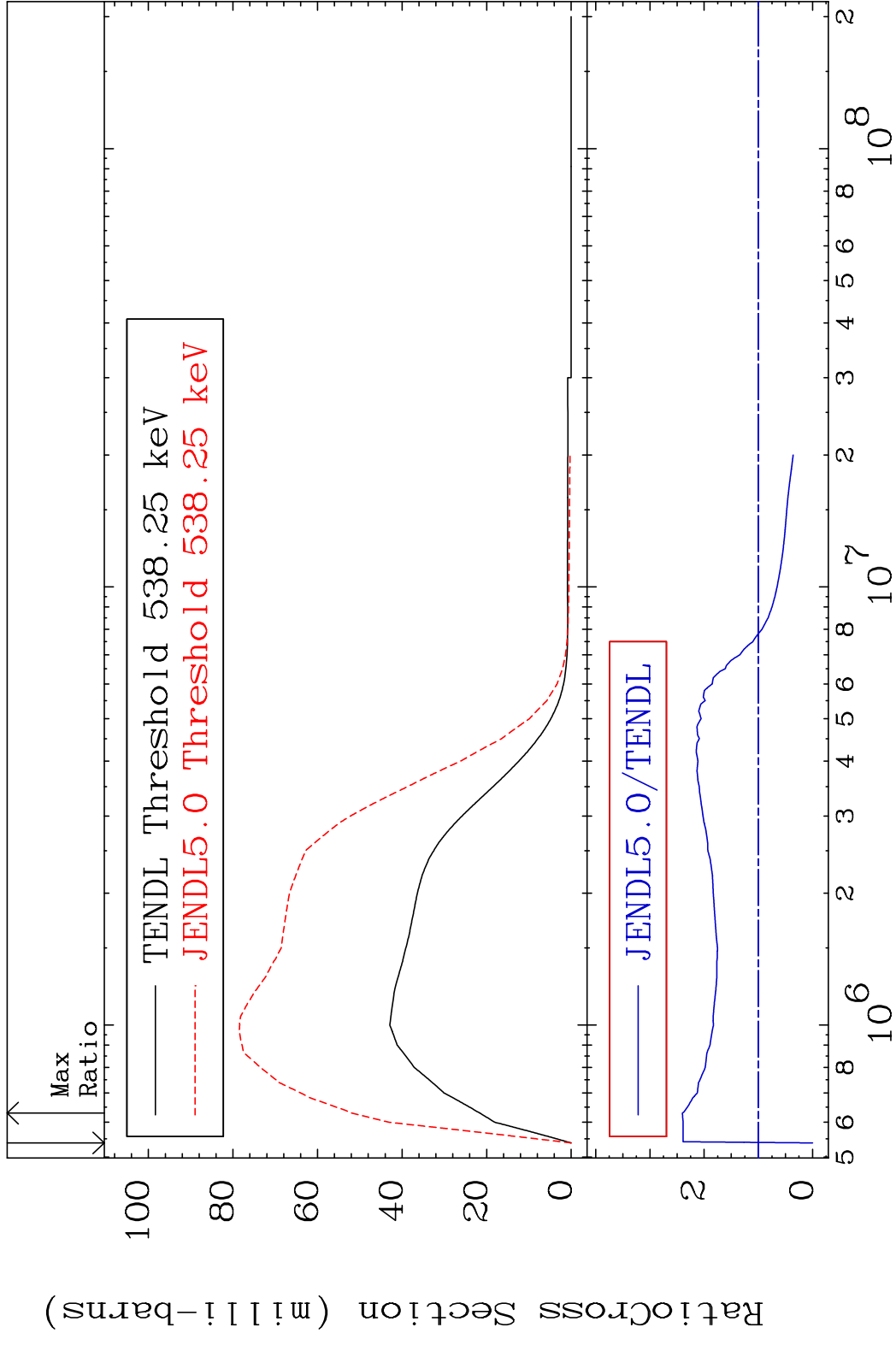


20 Incident Energy (eV) 81-Tl-204

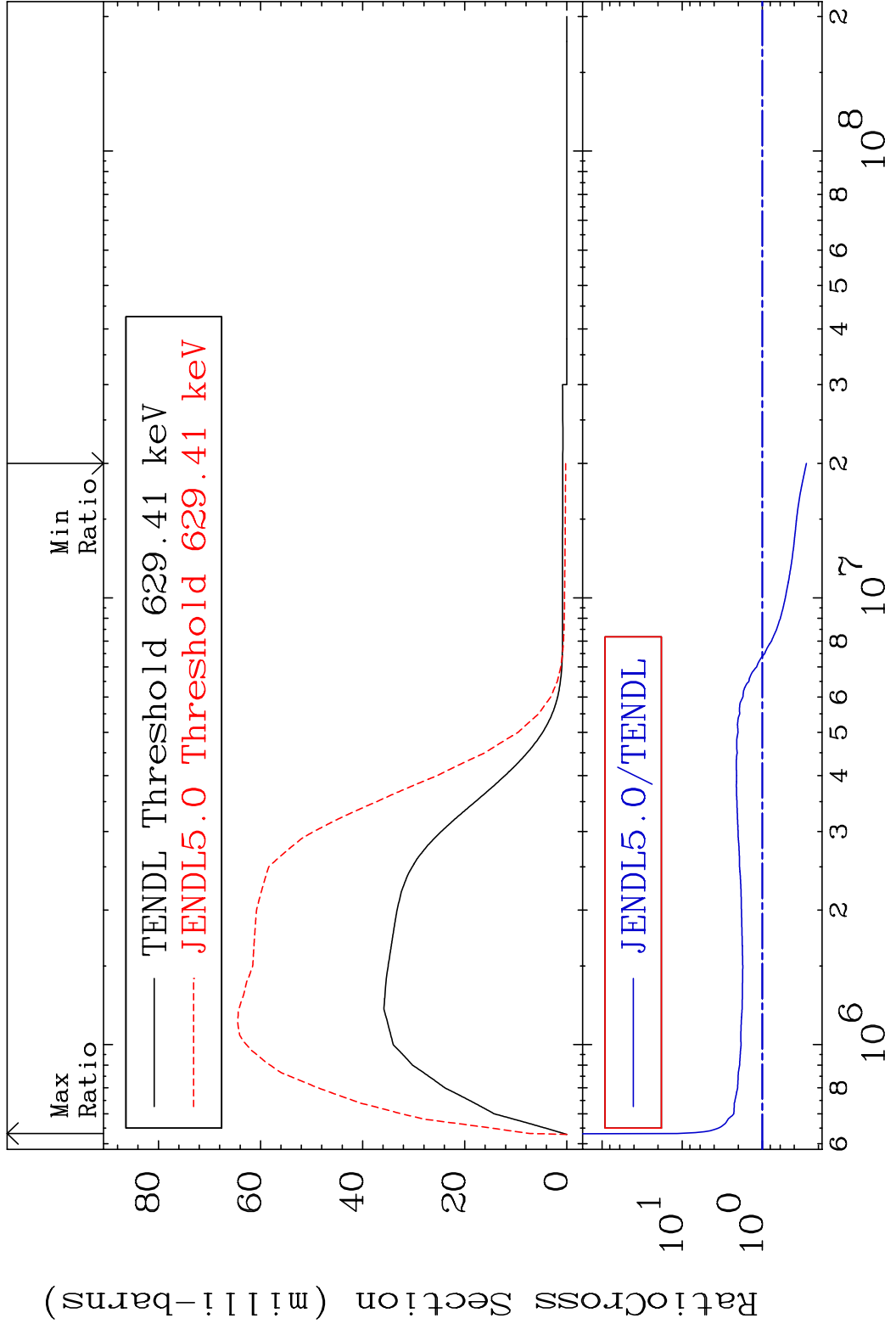
MAT 8128 MT= 62 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %



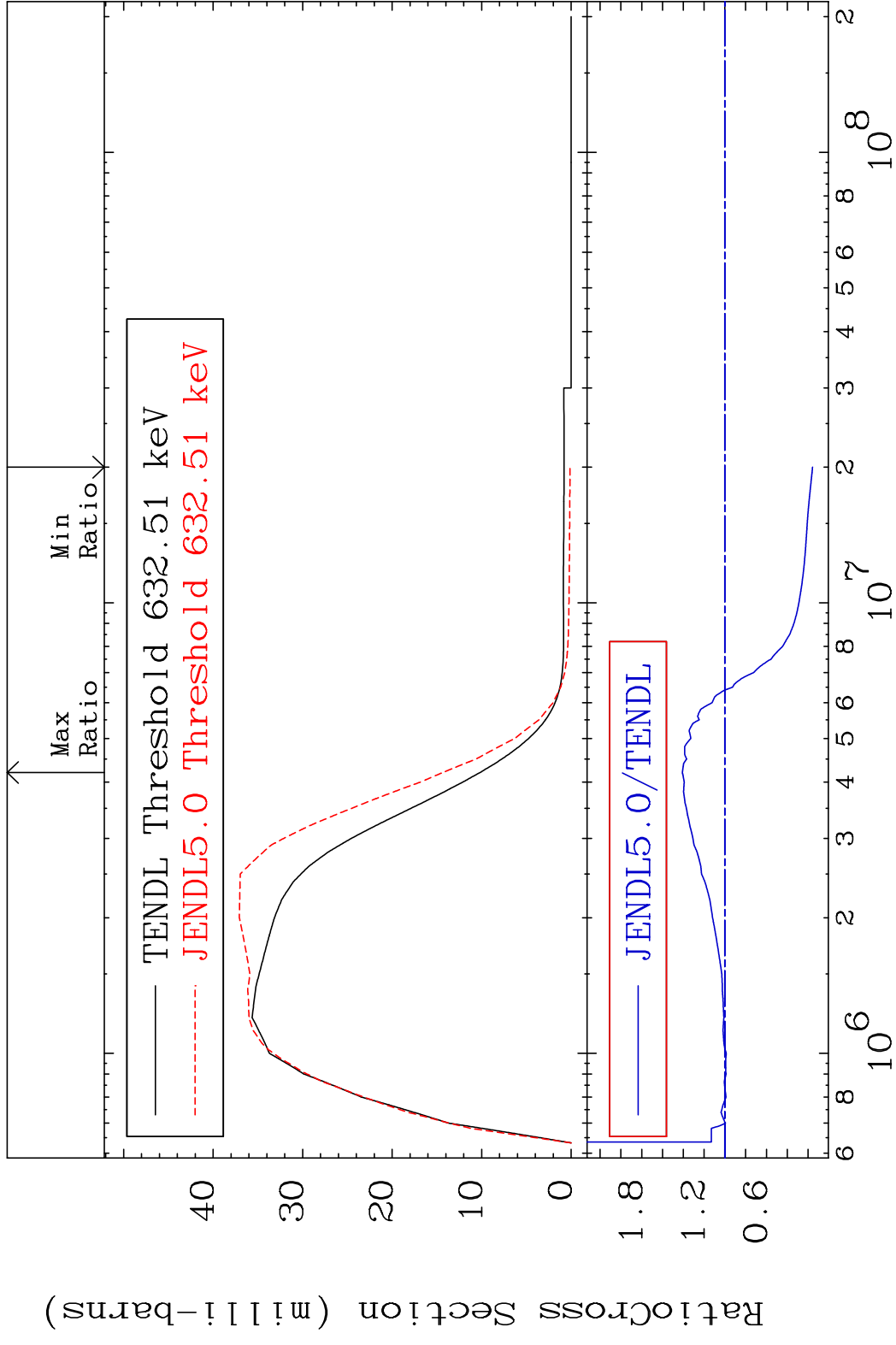
MAT 8128 MT= 63 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 140.2 %



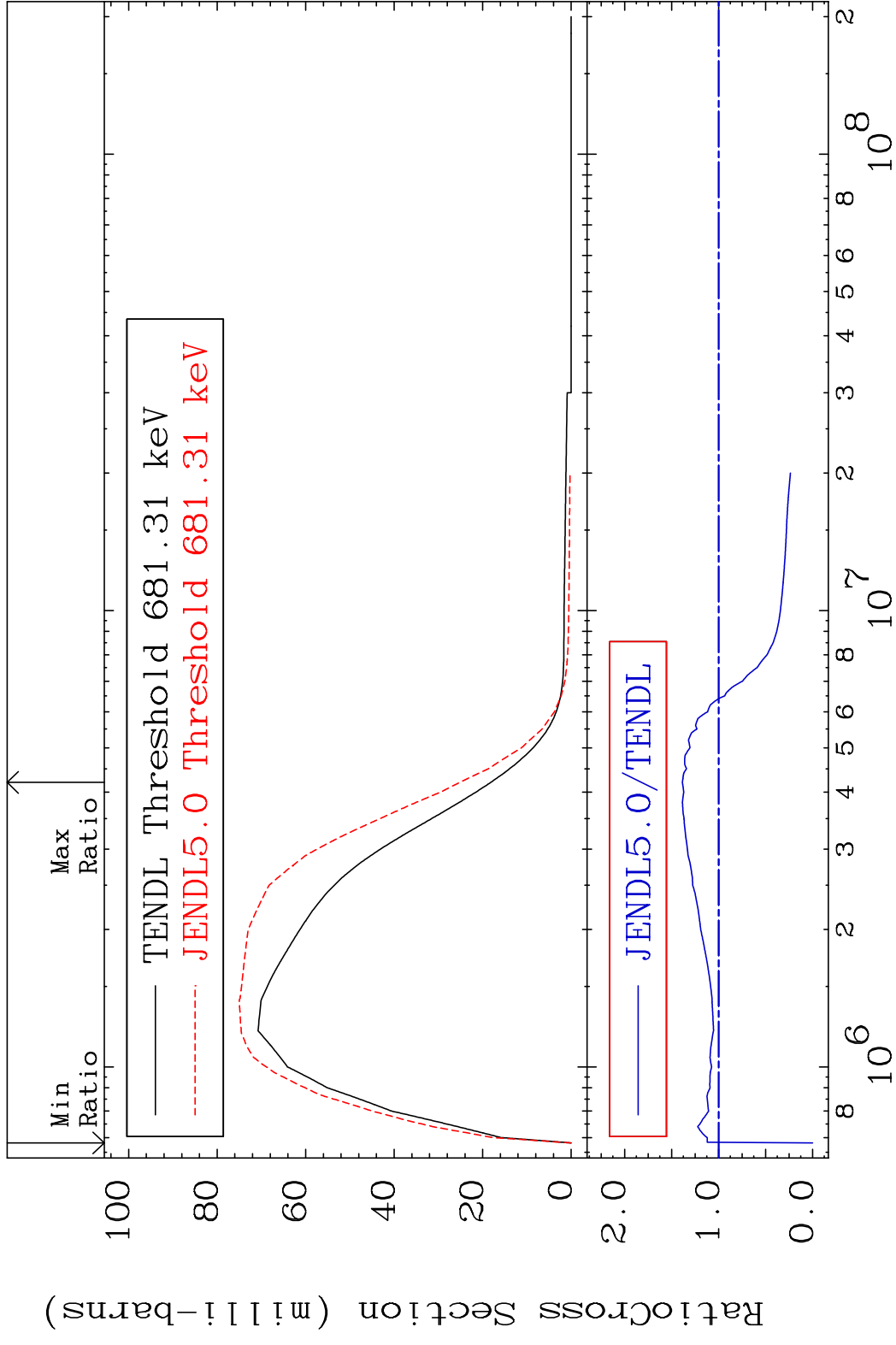
MAT 8128 MT= 64 (n, n') Level 81-Tl-204
 Cross Section -71.72 To 1055. %



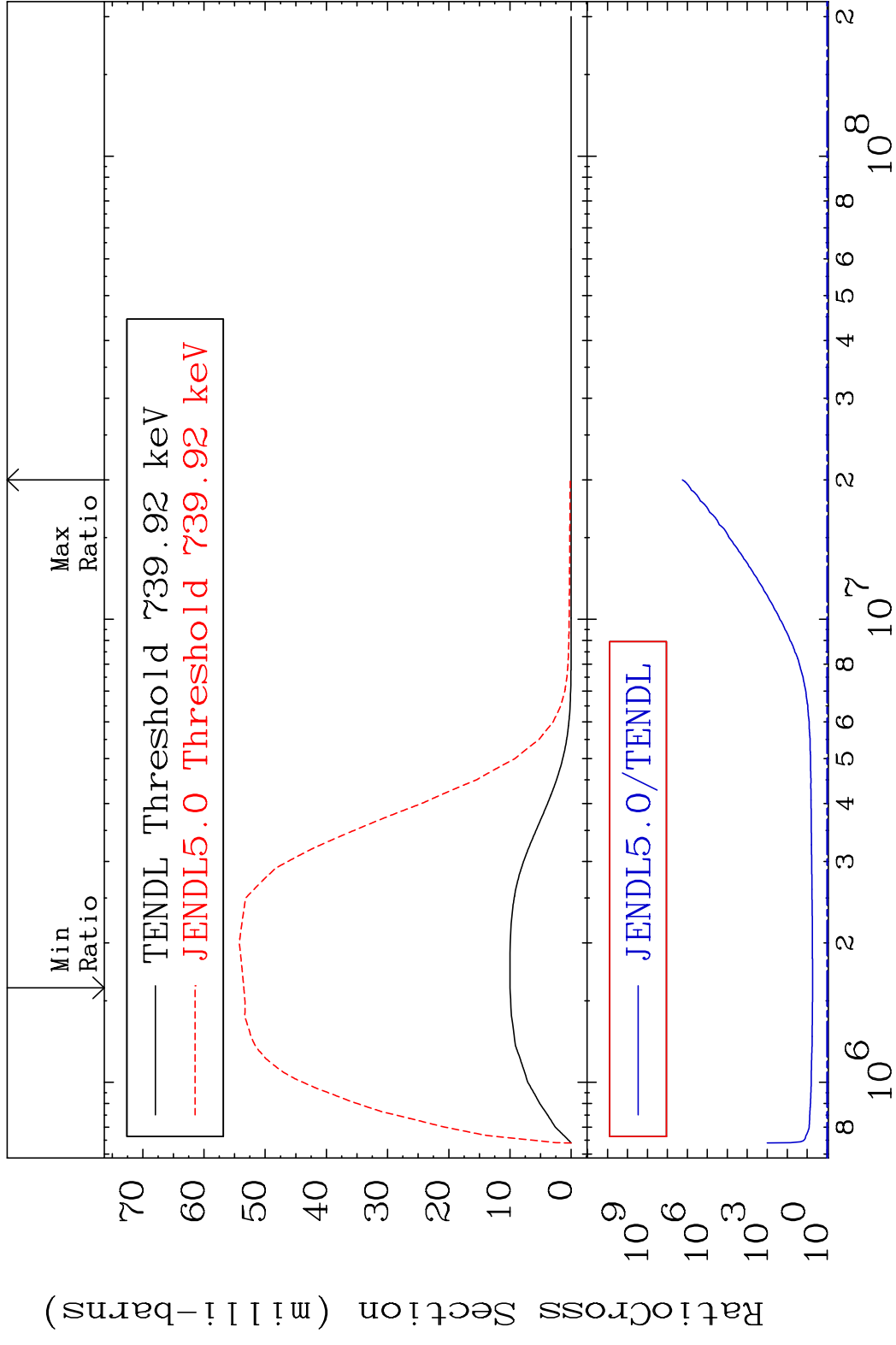
MAT 8128 MT= 65 (n, n') Level 81-Tl-204
 Cross Section -84.35 To 40.90 %



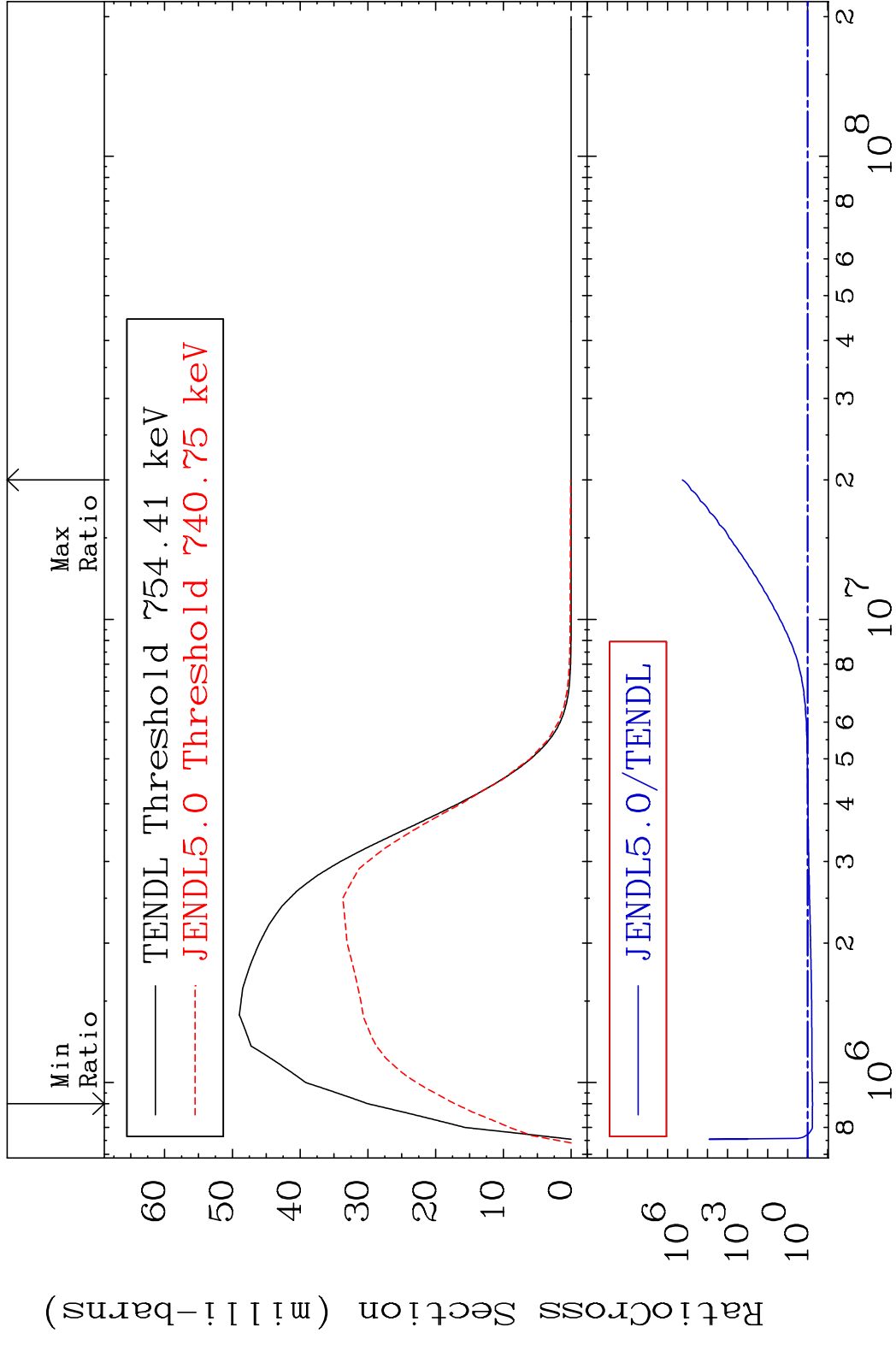
MAT 8128 MT= 66 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 38.60 %



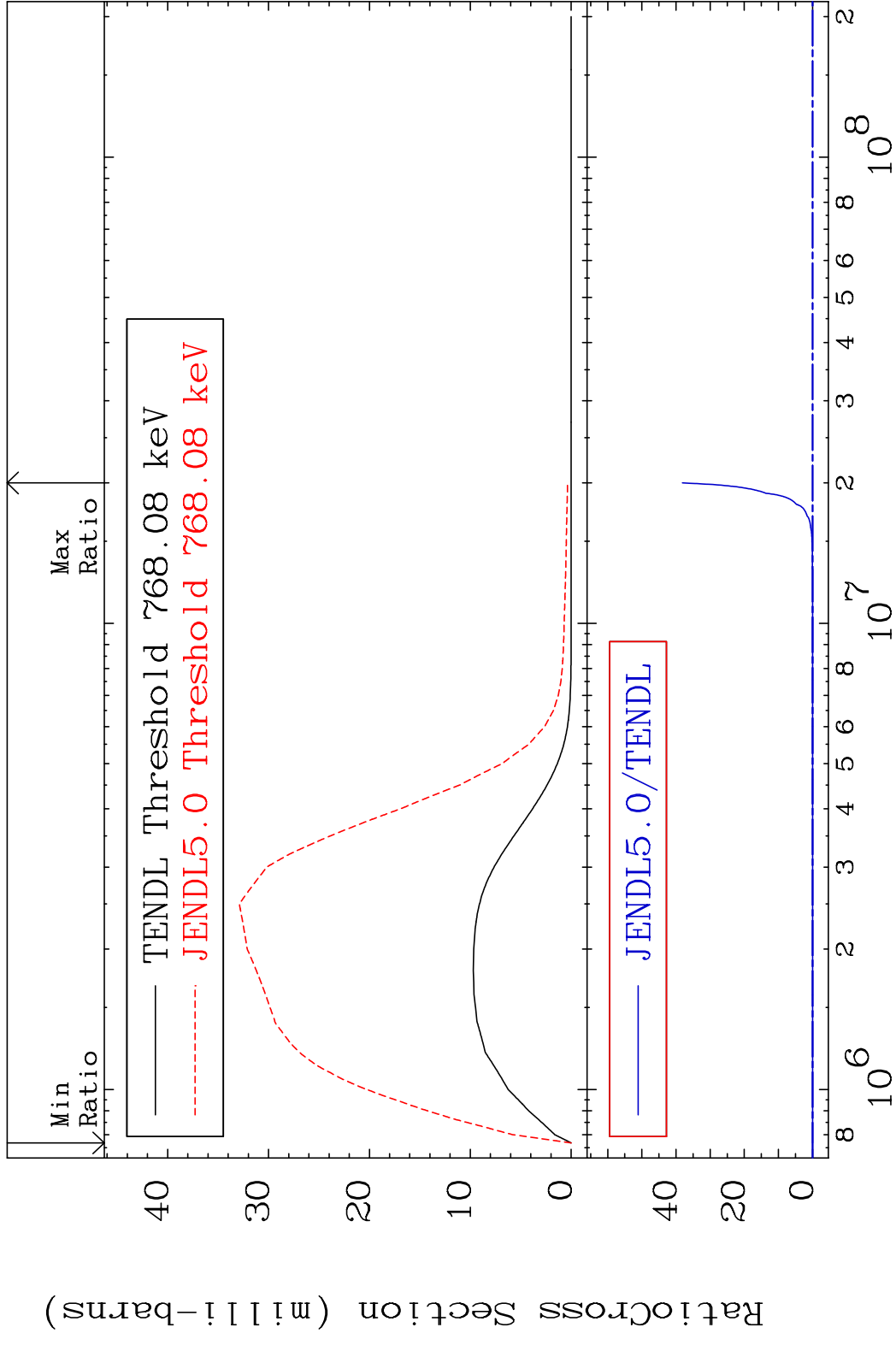
MAT 8128 MT= 67 (n, n') Level 81-Tl-204
 Cross Section 435.8 To 9999. %



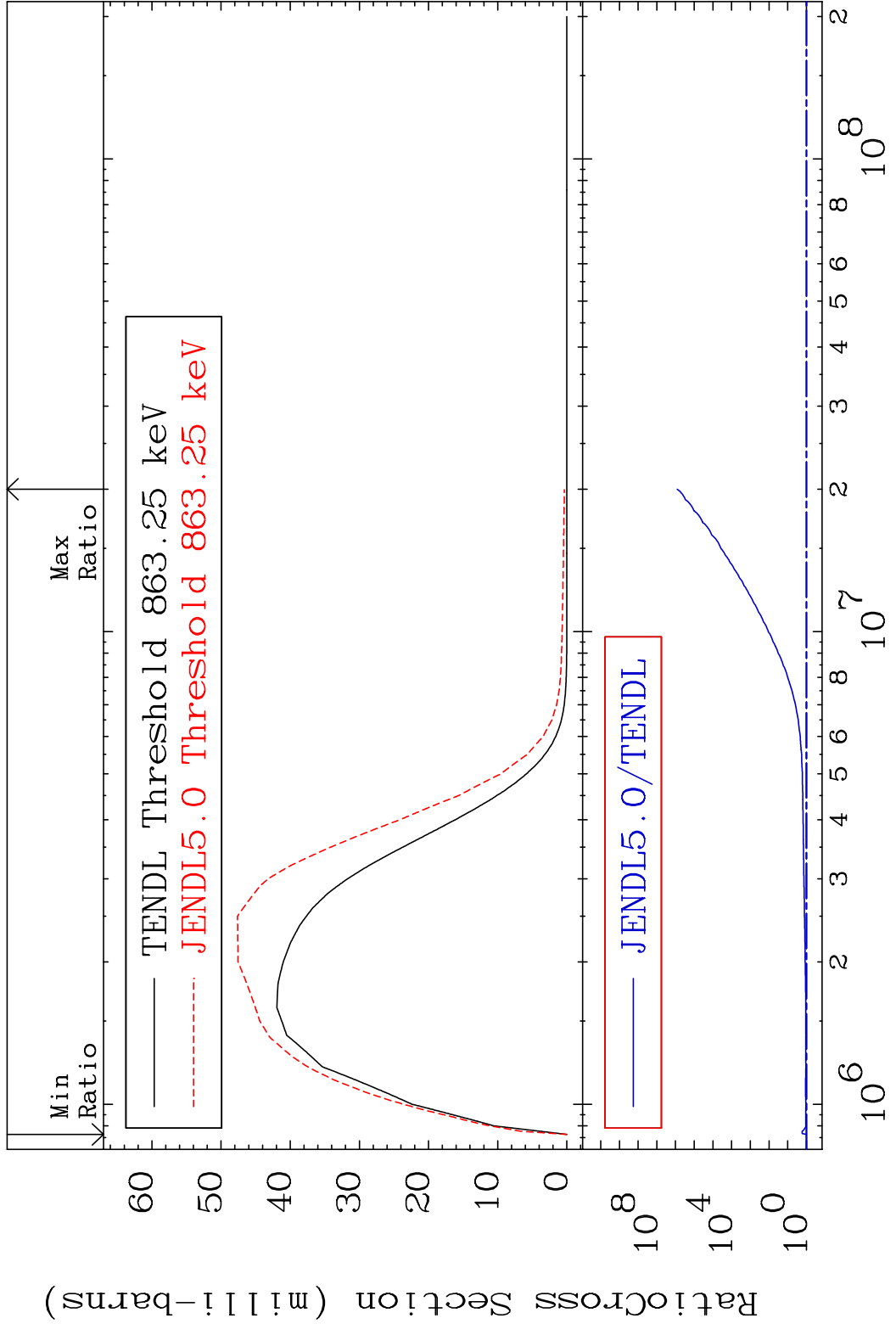
MAT 8128 MT= 68 (n, n') Level 81-Tl-204
 Cross Section -42.90 To 9999. %



MAT 8128 MT= 69 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %

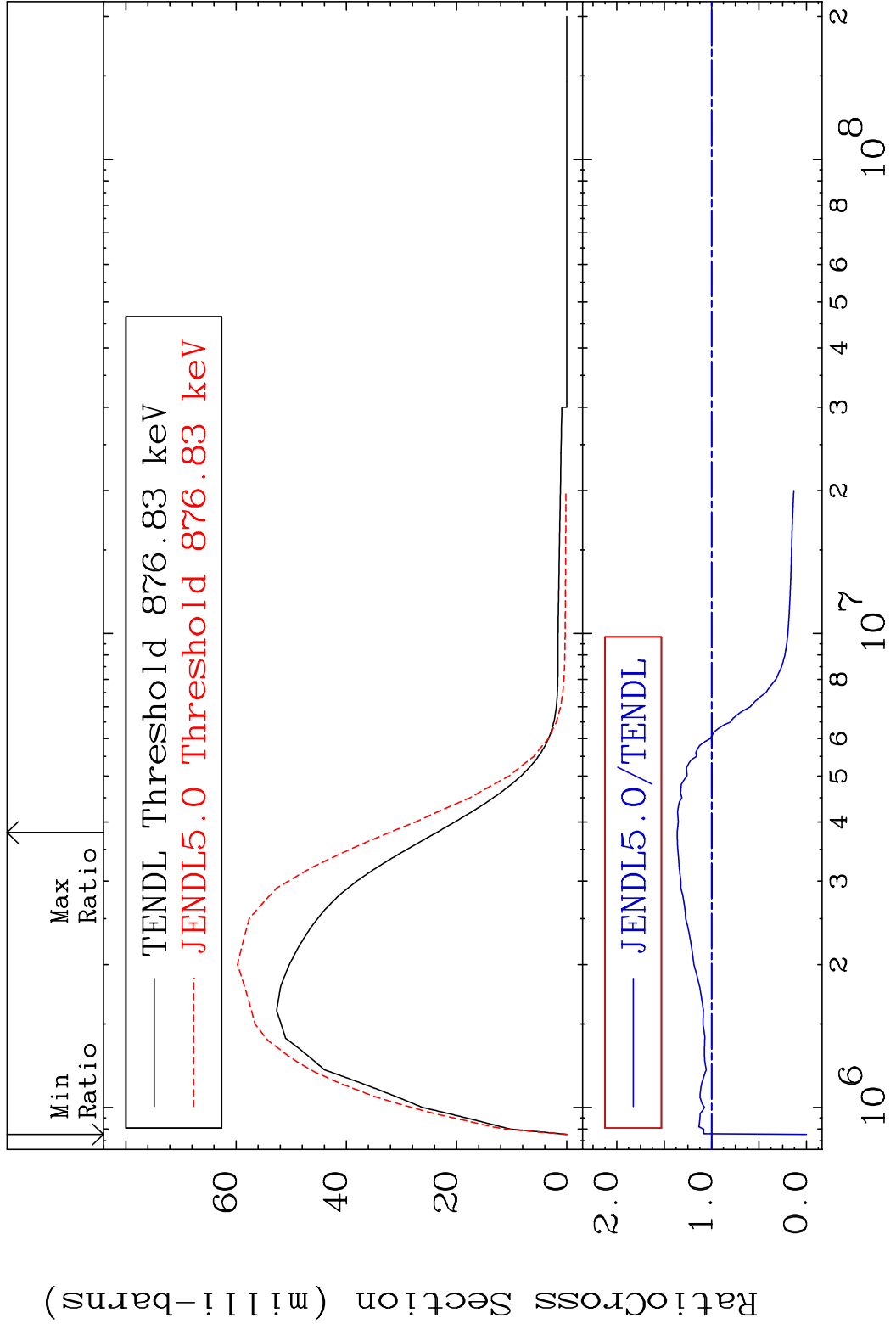


MAT 8128 MT= 70 (n, n') Level 81-Tl-204
 Cross Section 0.000 To 9999. %

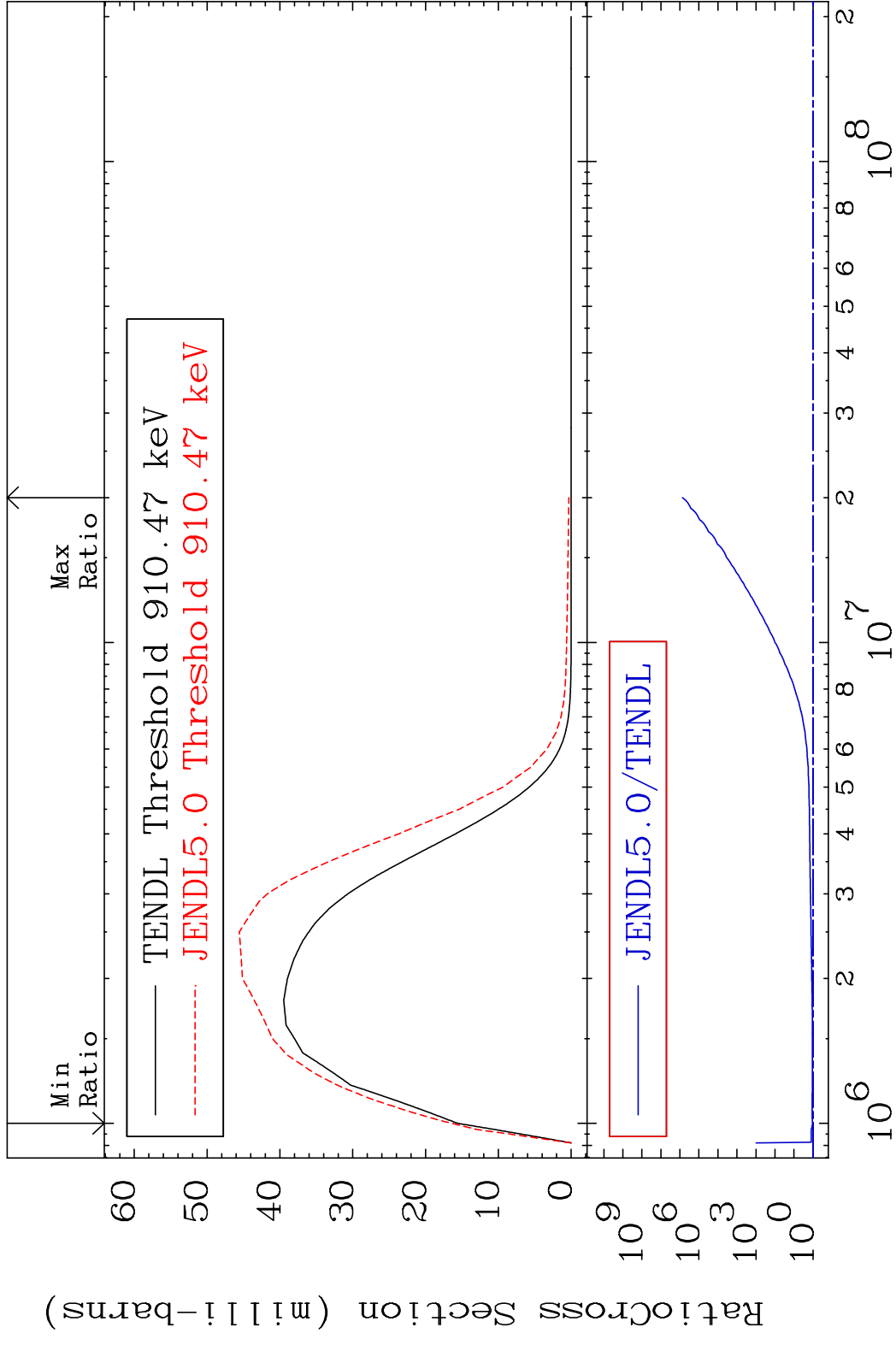


29 Incident Energy (eV) 81-Tl-204

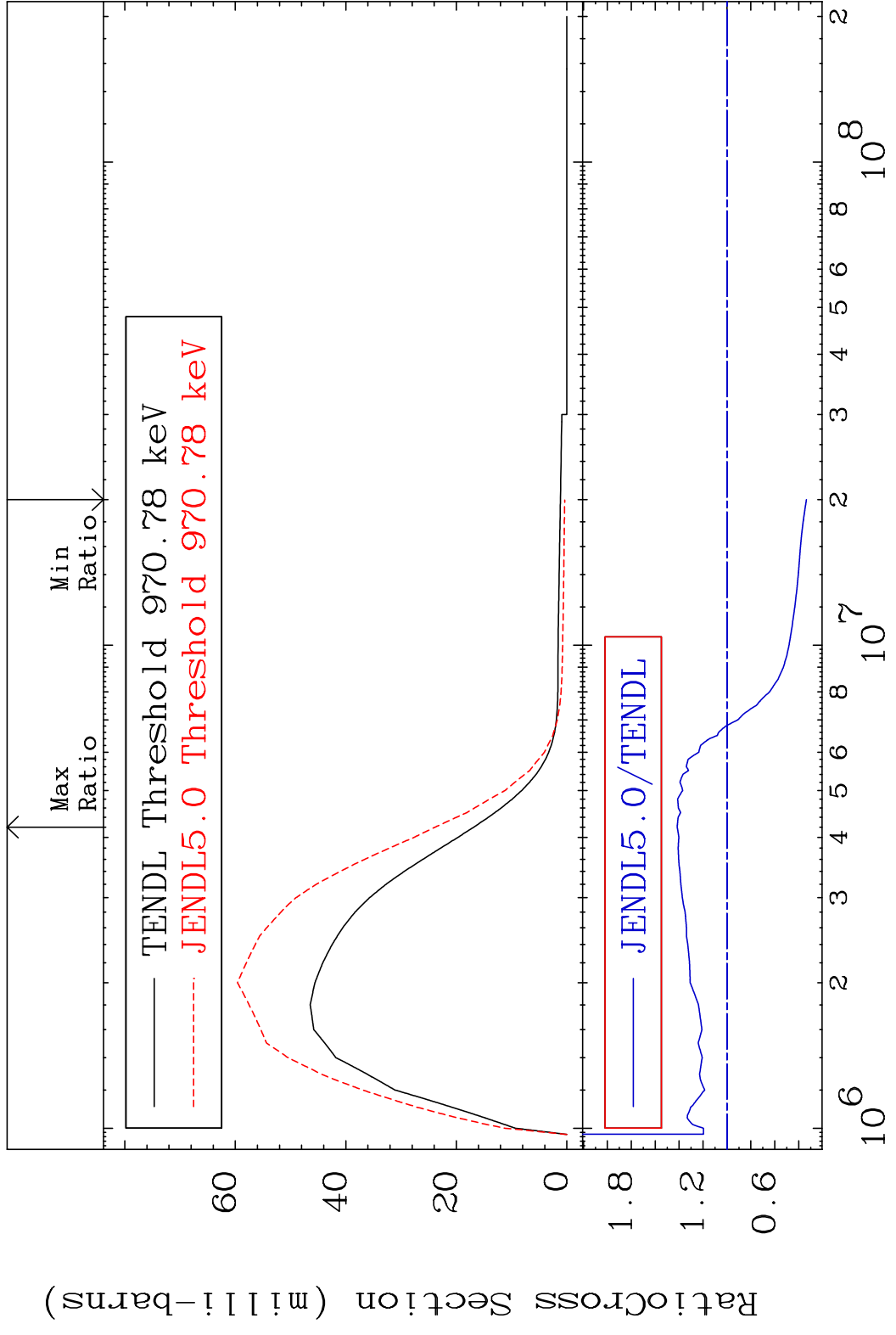
MAT 8128 MT= 71 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 36.31 %



MAT 8128 MT= 72 (n, n') Level 81-Tl-204
 Cross Section 5.221 To 9999. %

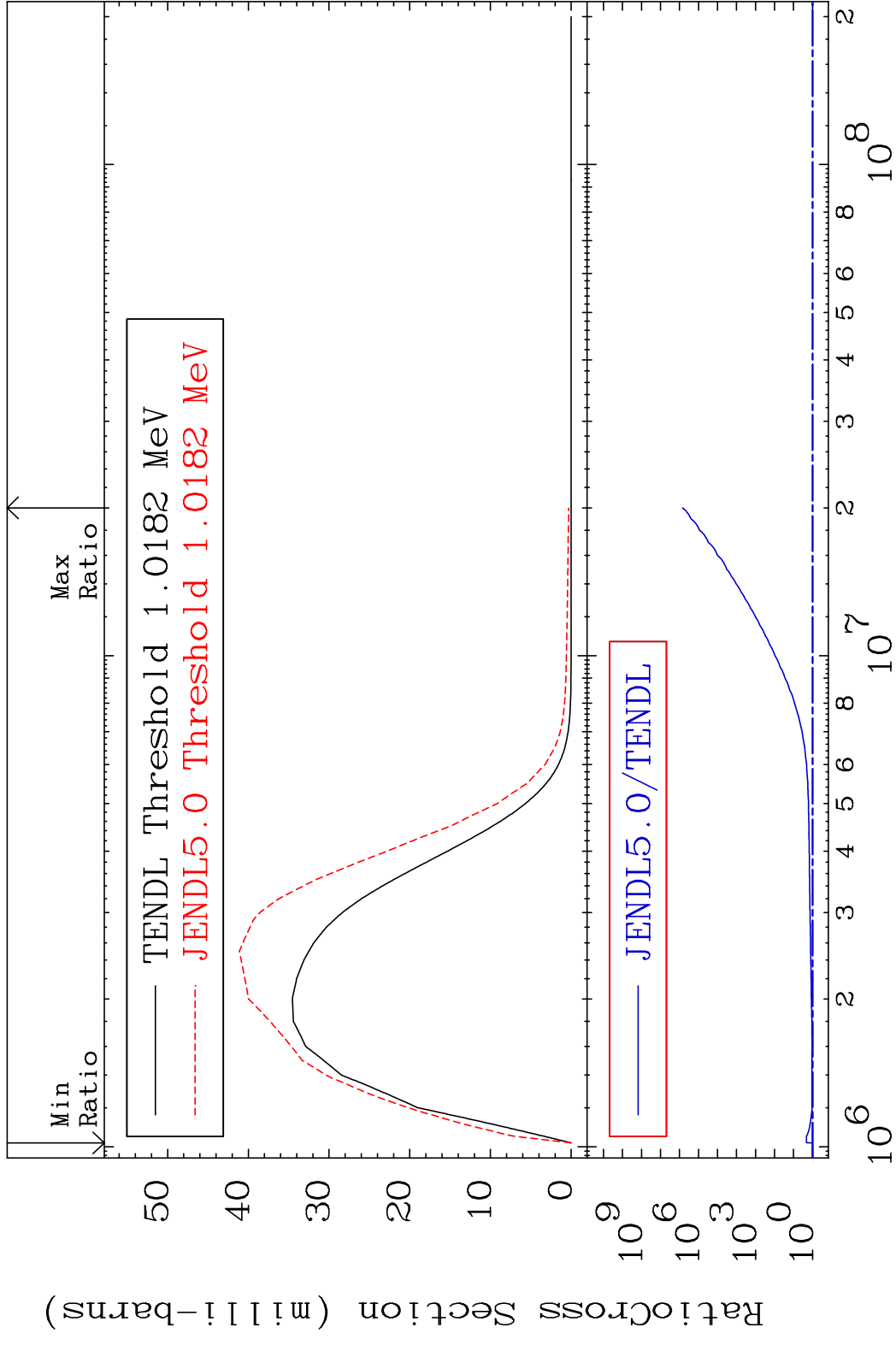


MAT 8128 MT= 73 (n, n') Level 81-Tl-204
 Cross Section -66.44 To 41.61 %



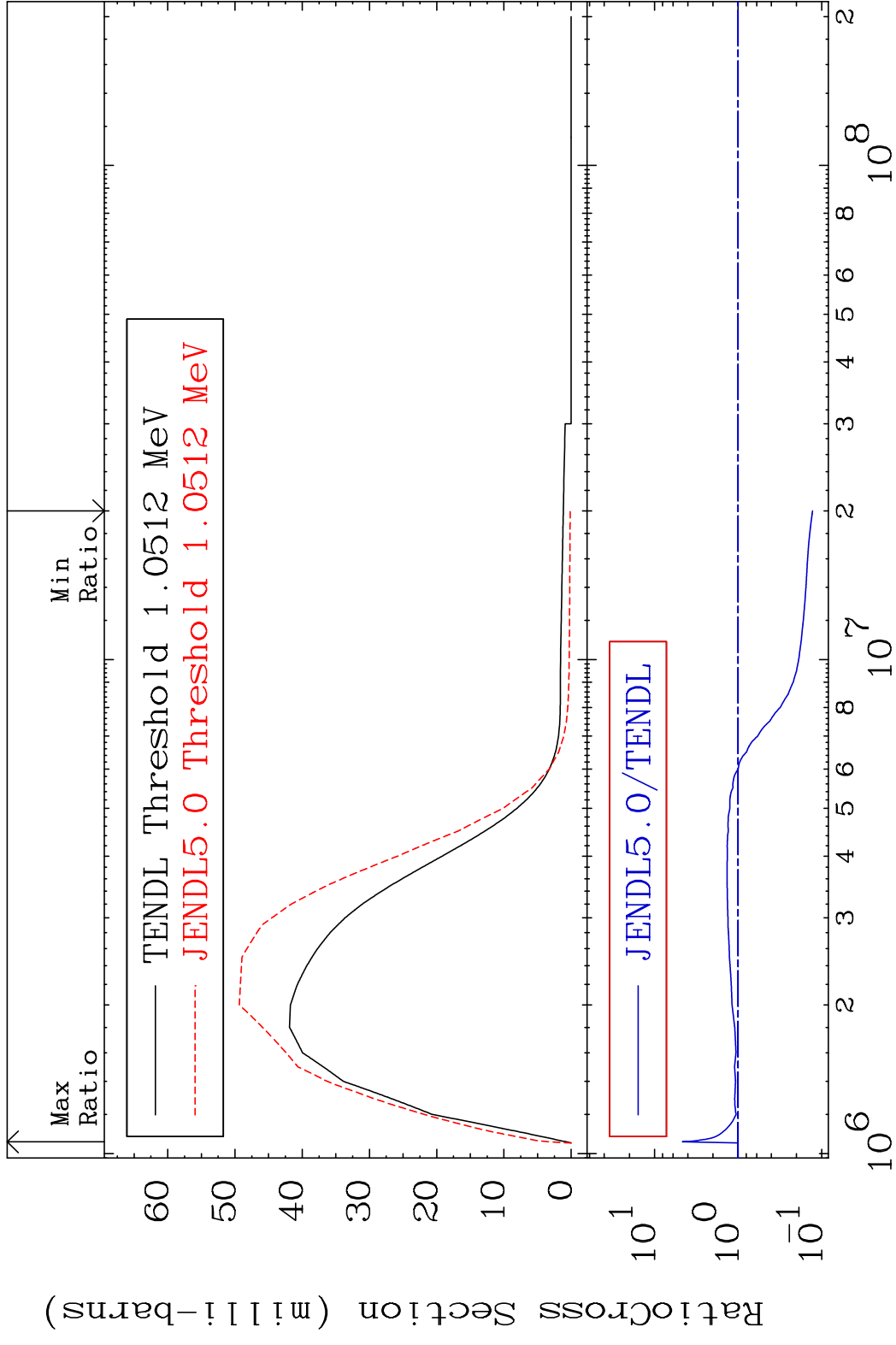
32 Incident Energy (eV) 81-Tl-204

MAT 8128 MT= 74 (n, n') Level 81-Tl-204
 Cross Section 0.000 To 9999. %

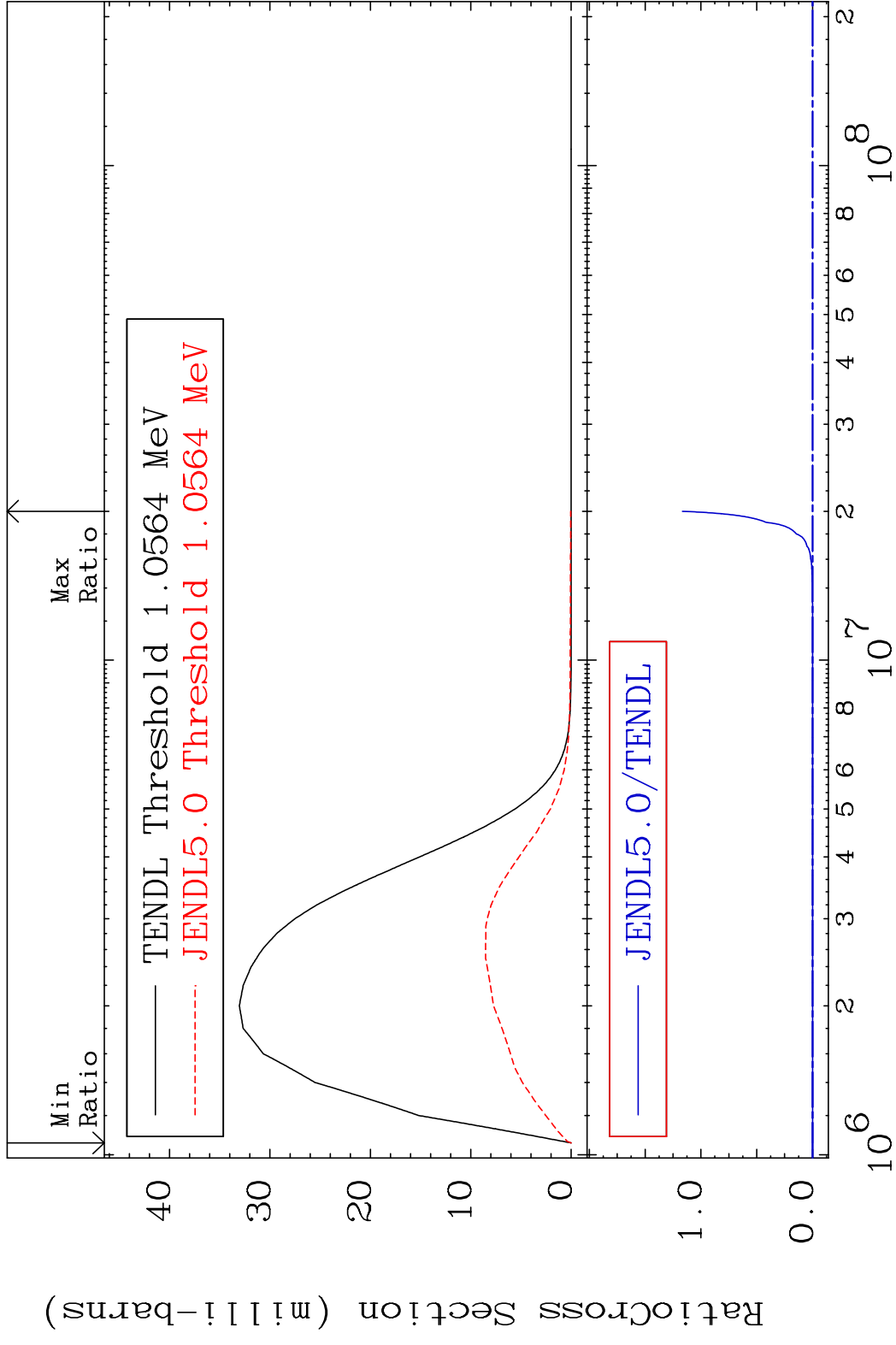


33 Incident Energy (eV) 81-Tl-204

MAT 8128 MT= 75 (n, n') Level 81-Tl-204
 Cross Section -87.15 To 364.8 %

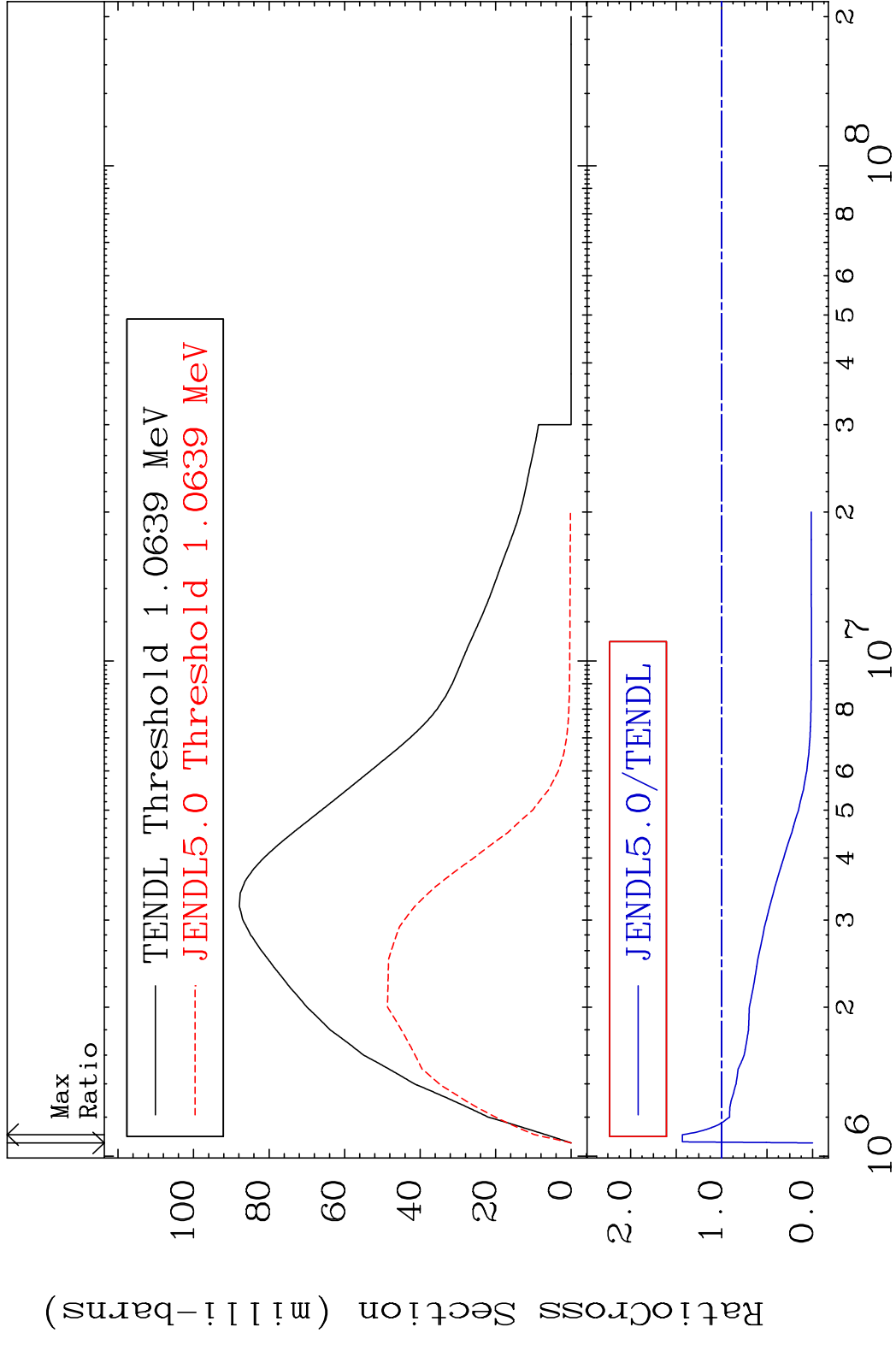


MAT 8128 MT= 76 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %



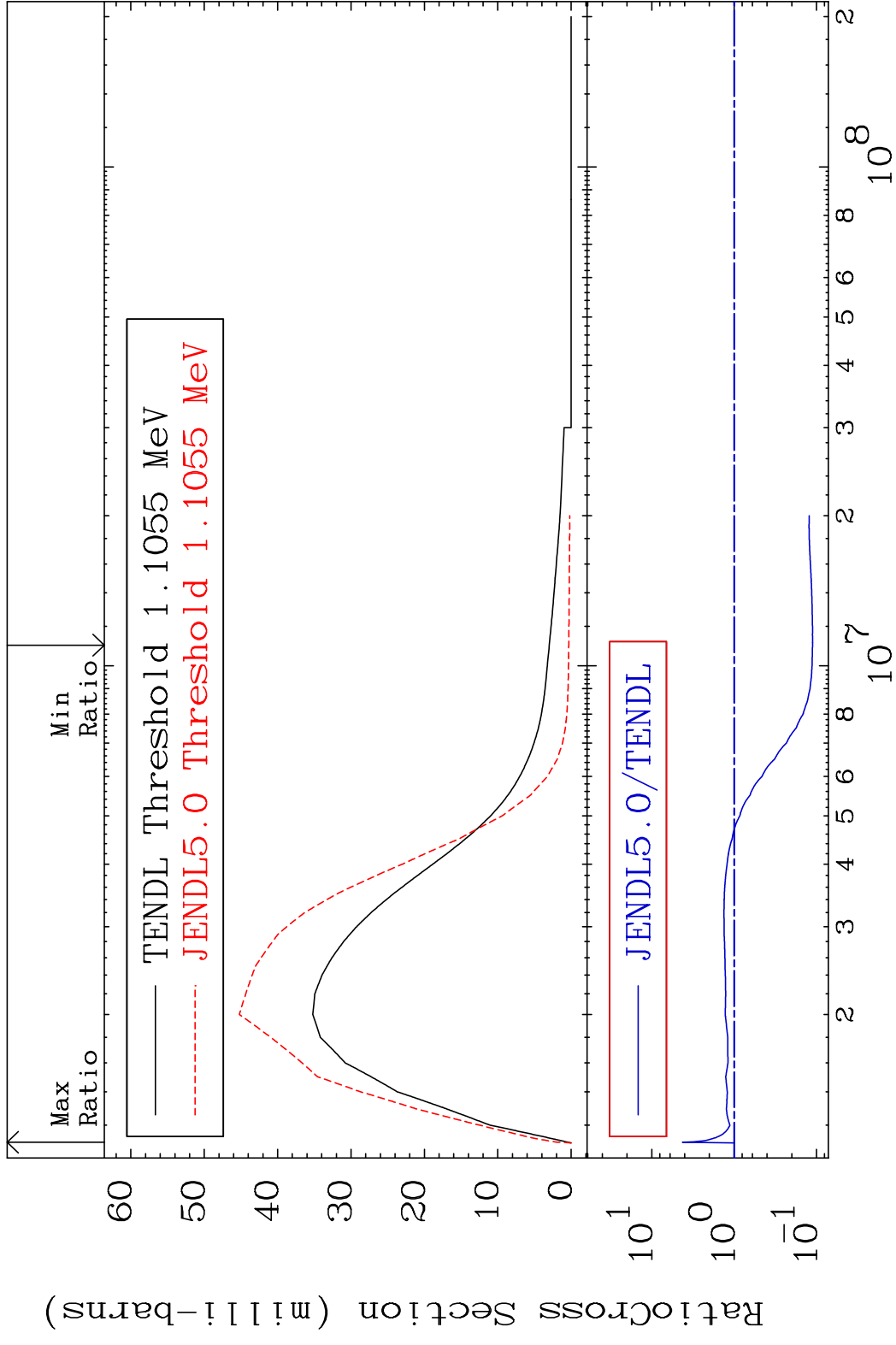
35 Incident Energy (eV) 81-Tl-204

MAT 8128 MT= 77 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 43.15 %

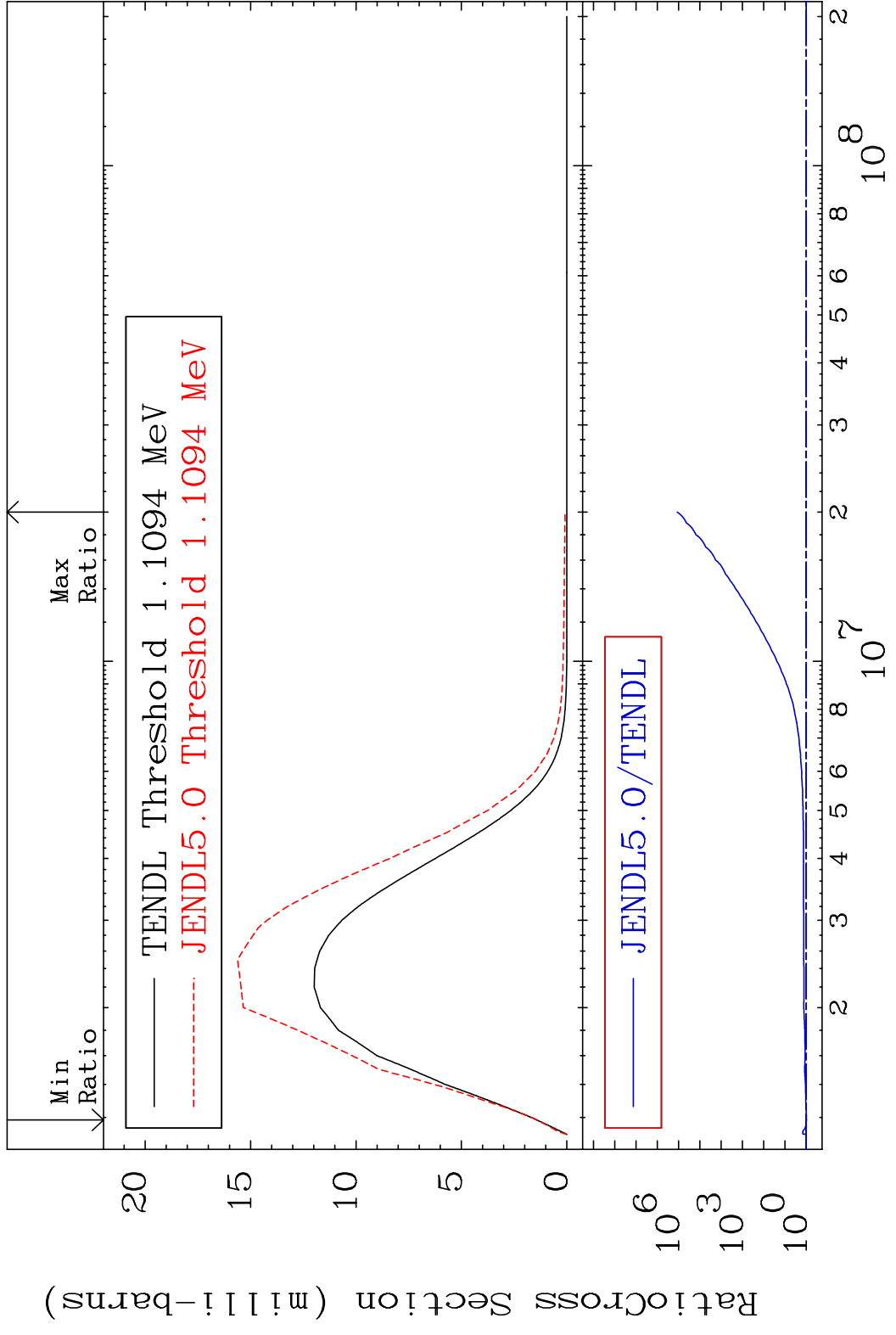


36 Incident Energy (eV) 81-Tl-204

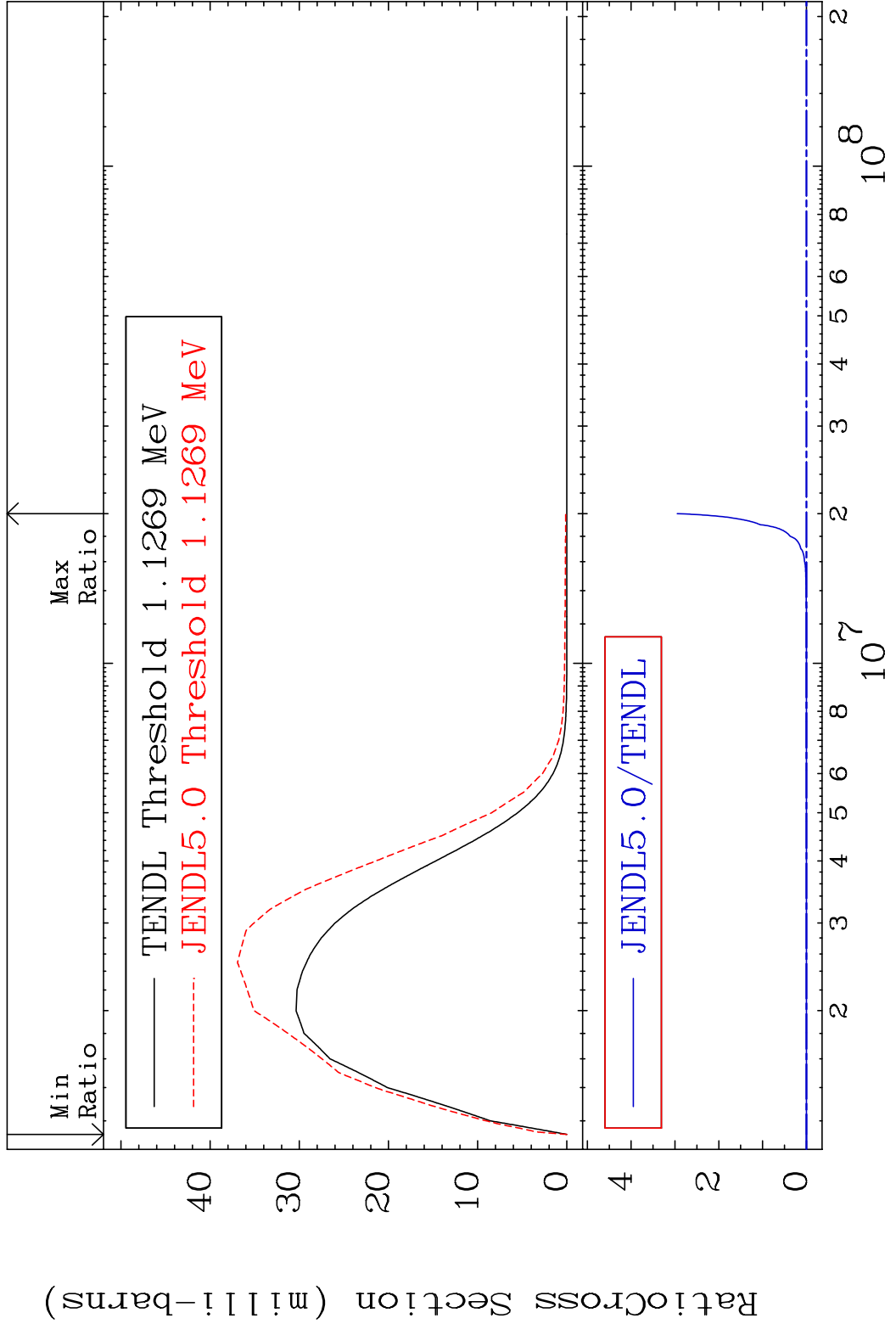
MAT 8128 MT= 78 (n, n') Level 81-Tl-204
 Cross Section -88.82 To 326.0 %



MAT 8128 MT= 79 (n, n') Level 81-Tl-204
 Cross Section -0.908 To 9999. %



MAT 8128 MT= 80 (n, n') Level 81-Tl-204
 Cross Section -100.0 To 9999. %

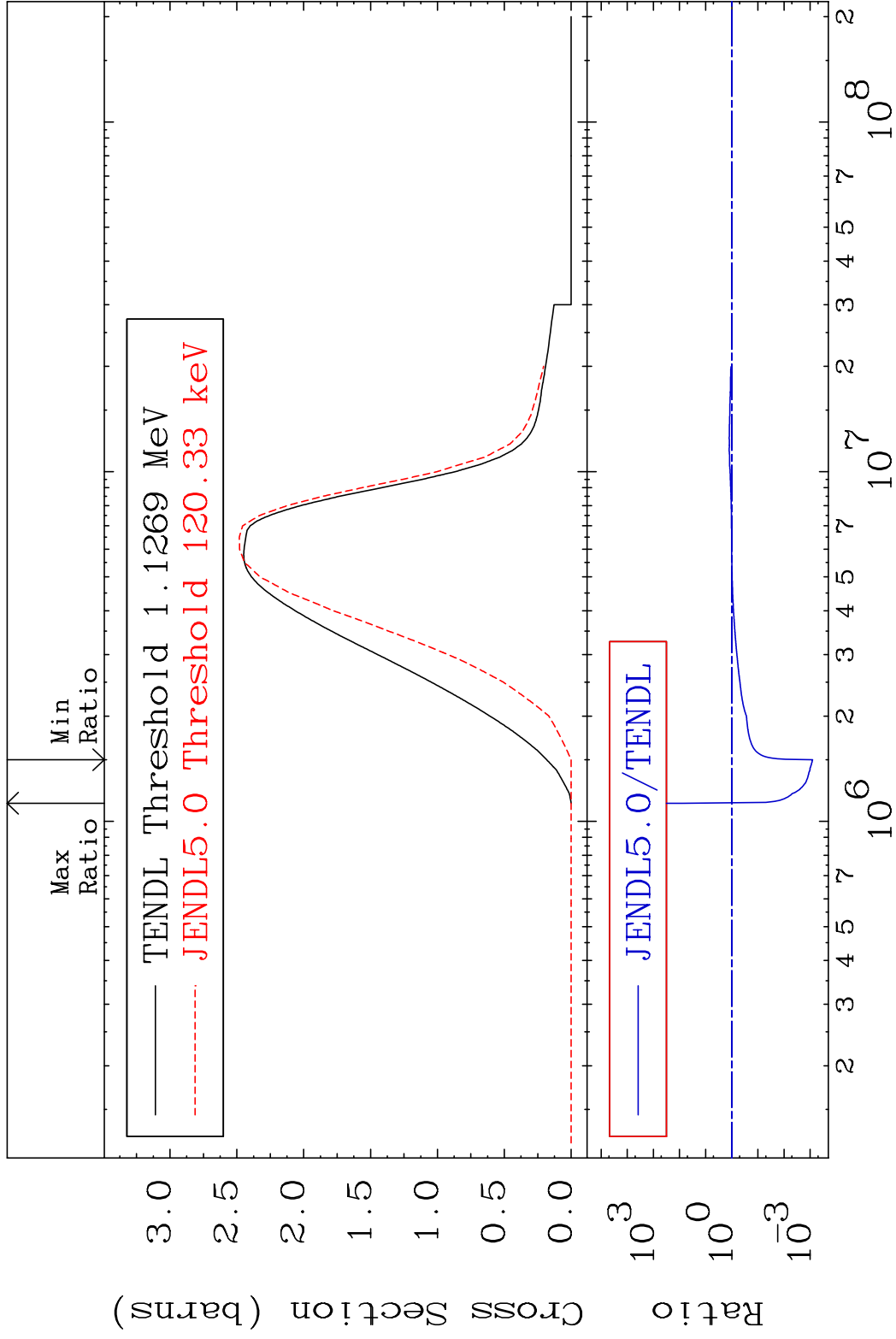


MAT 8128

(n, n') Continuum

81-Tl-204

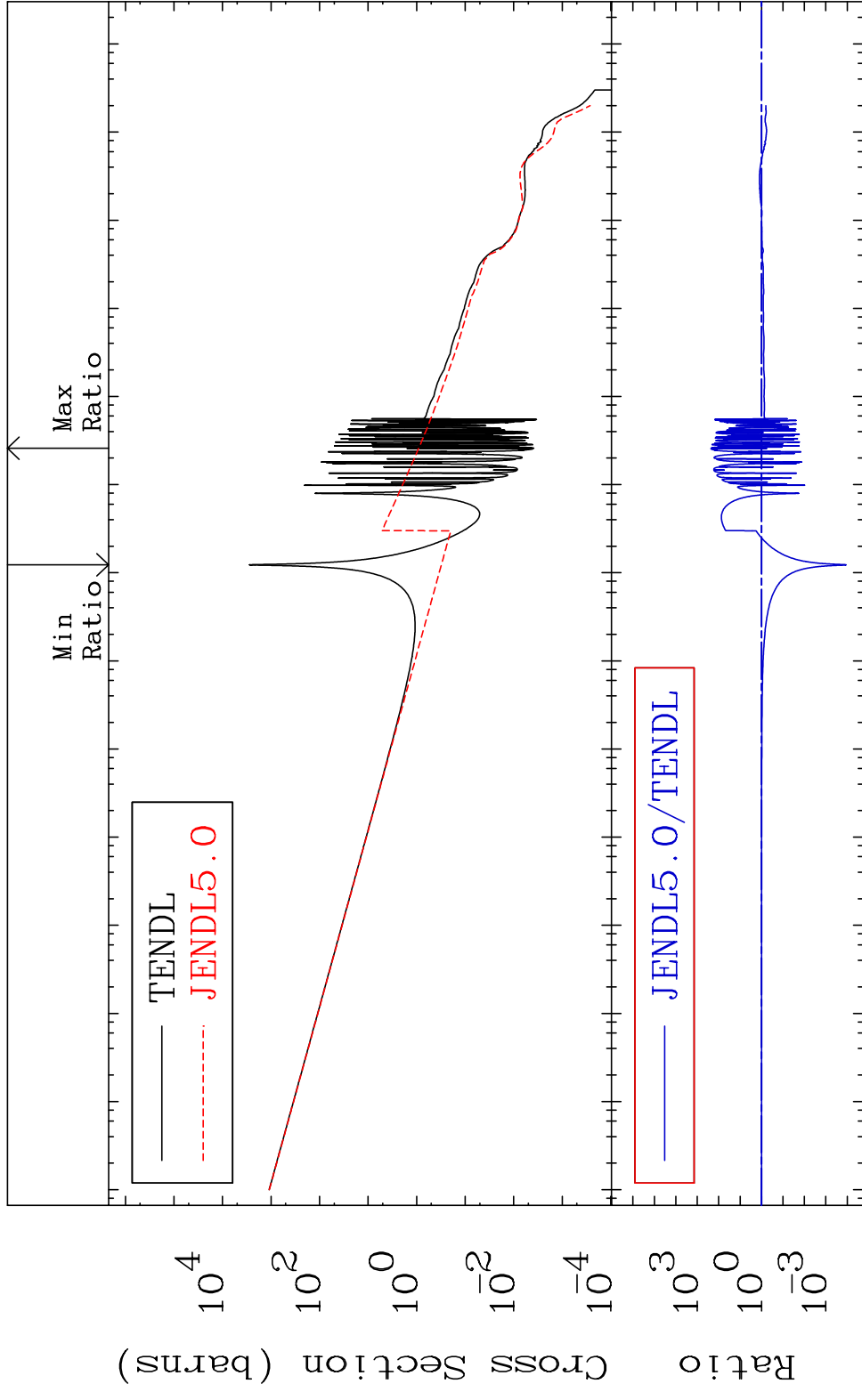
Cross Section -99.92 To 7683. %



40

Incident Energy (eV)

81-Tl-204

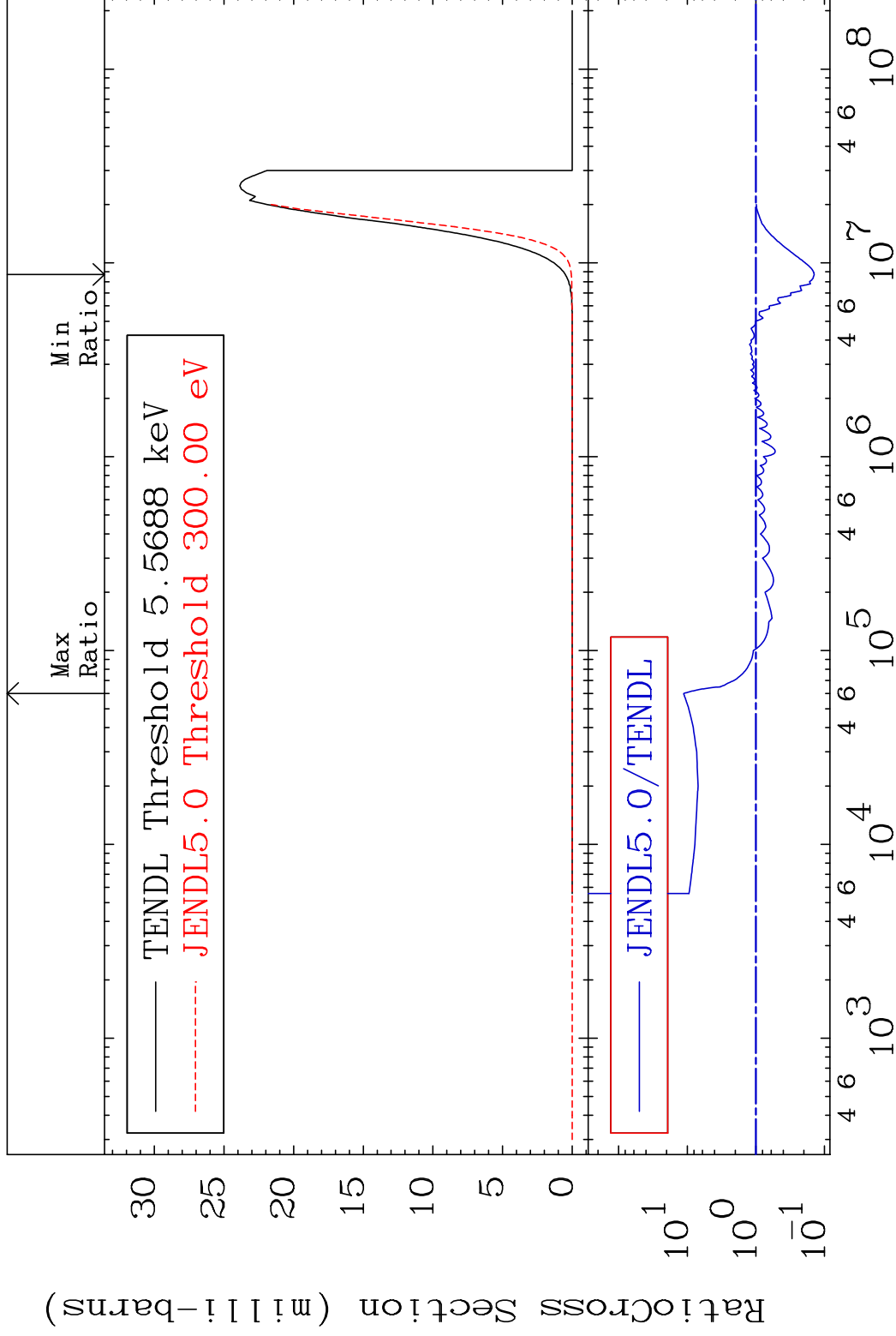


MAT 8128

(n, p)

81-Tl-204

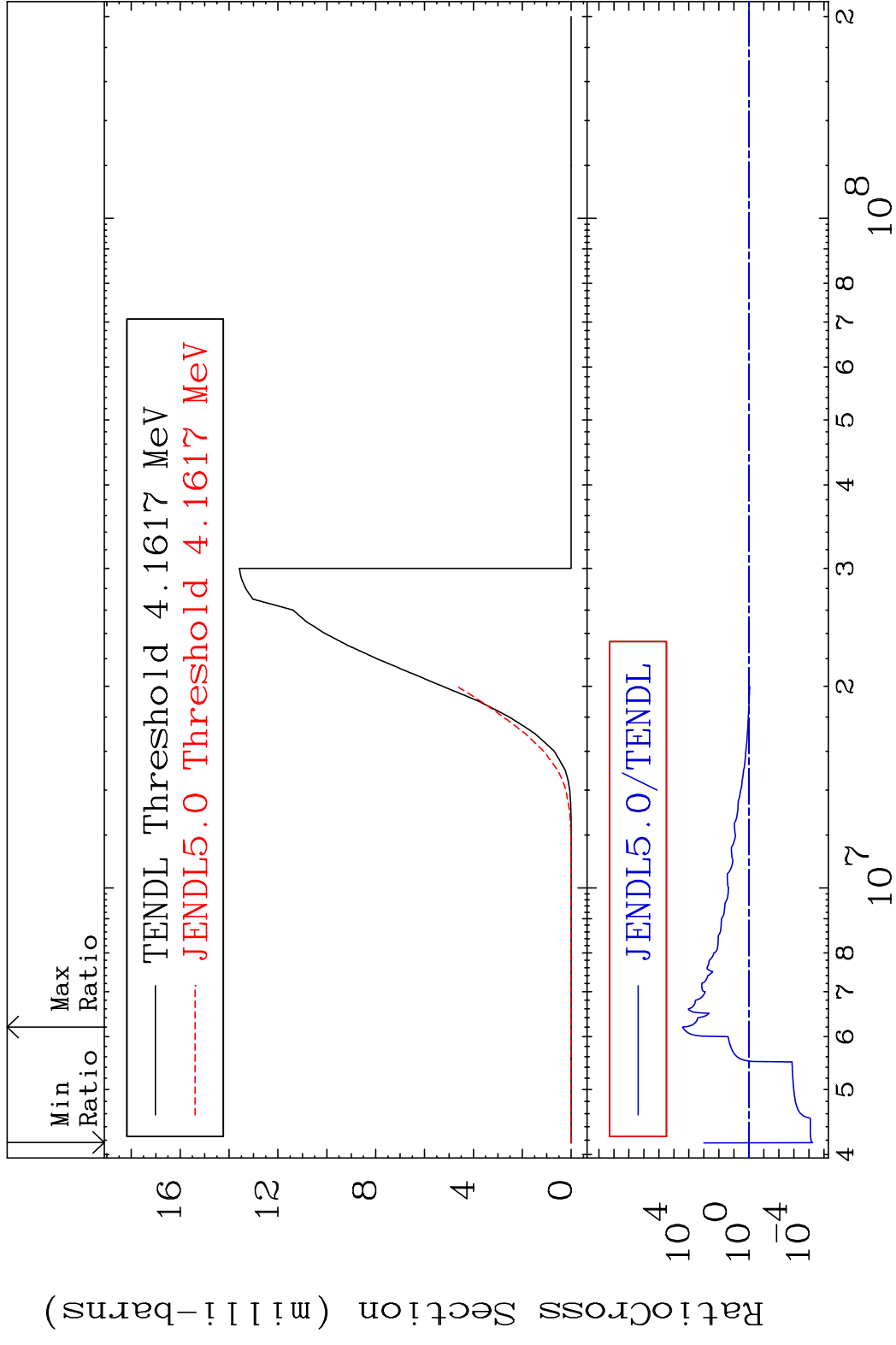
Cross Section -85.81 To 1029. %



42

Incident Energy (eV)

81-Tl-204

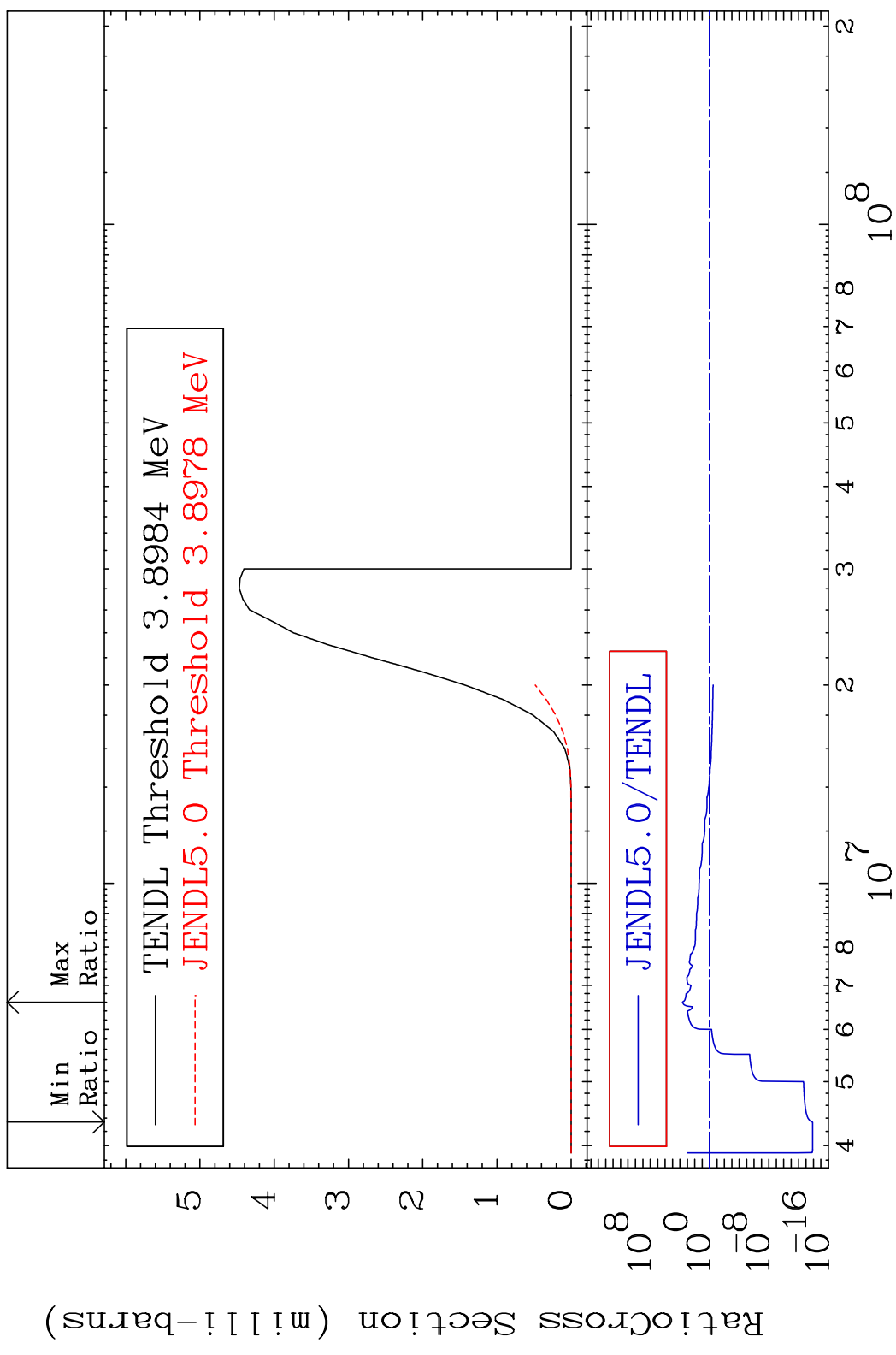


MAT 8128

(n, t)

81-Tl-204

Cross Section -100.0 To 9999. %

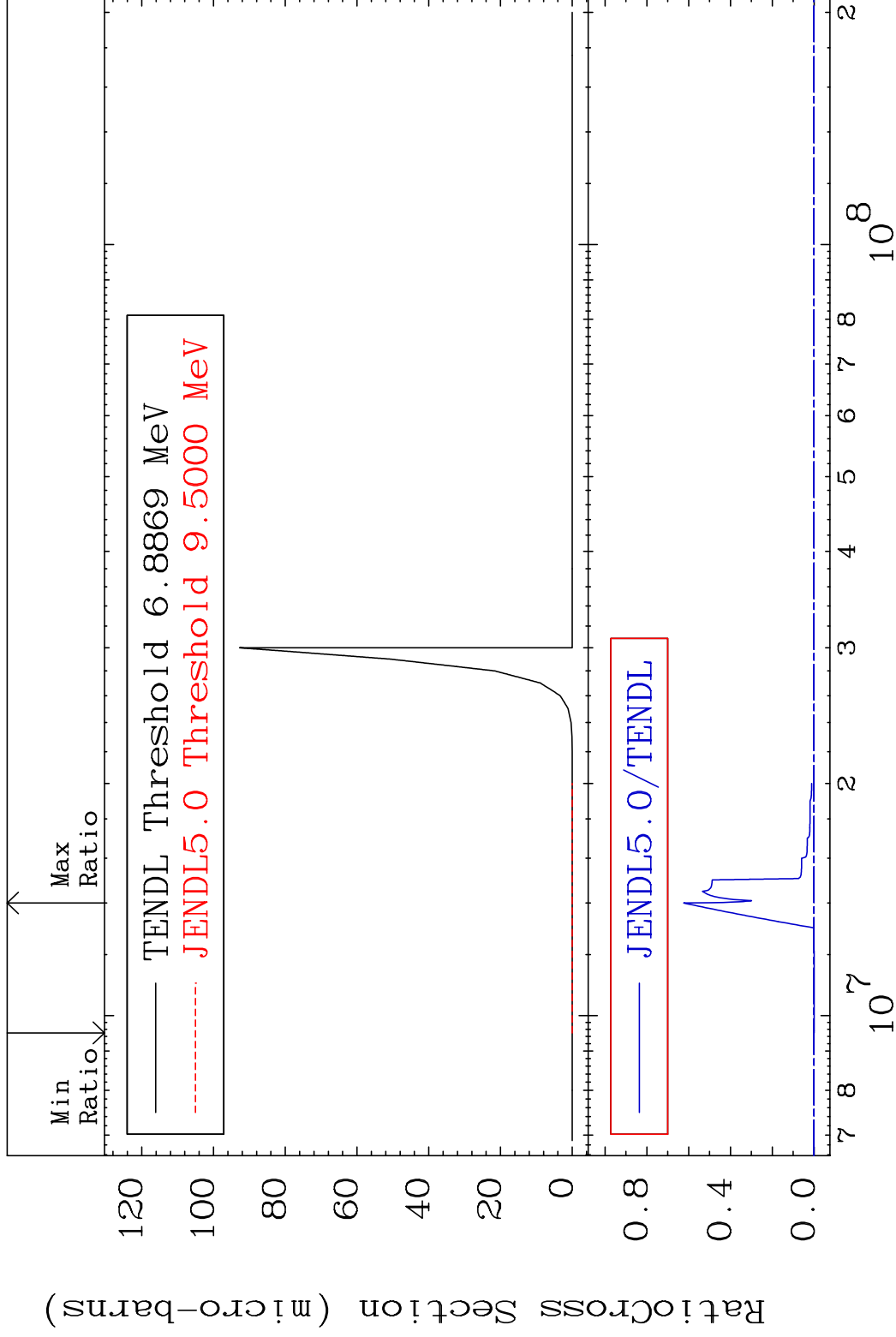


MAT 8128

(n, He-3)

81-Tl-204

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

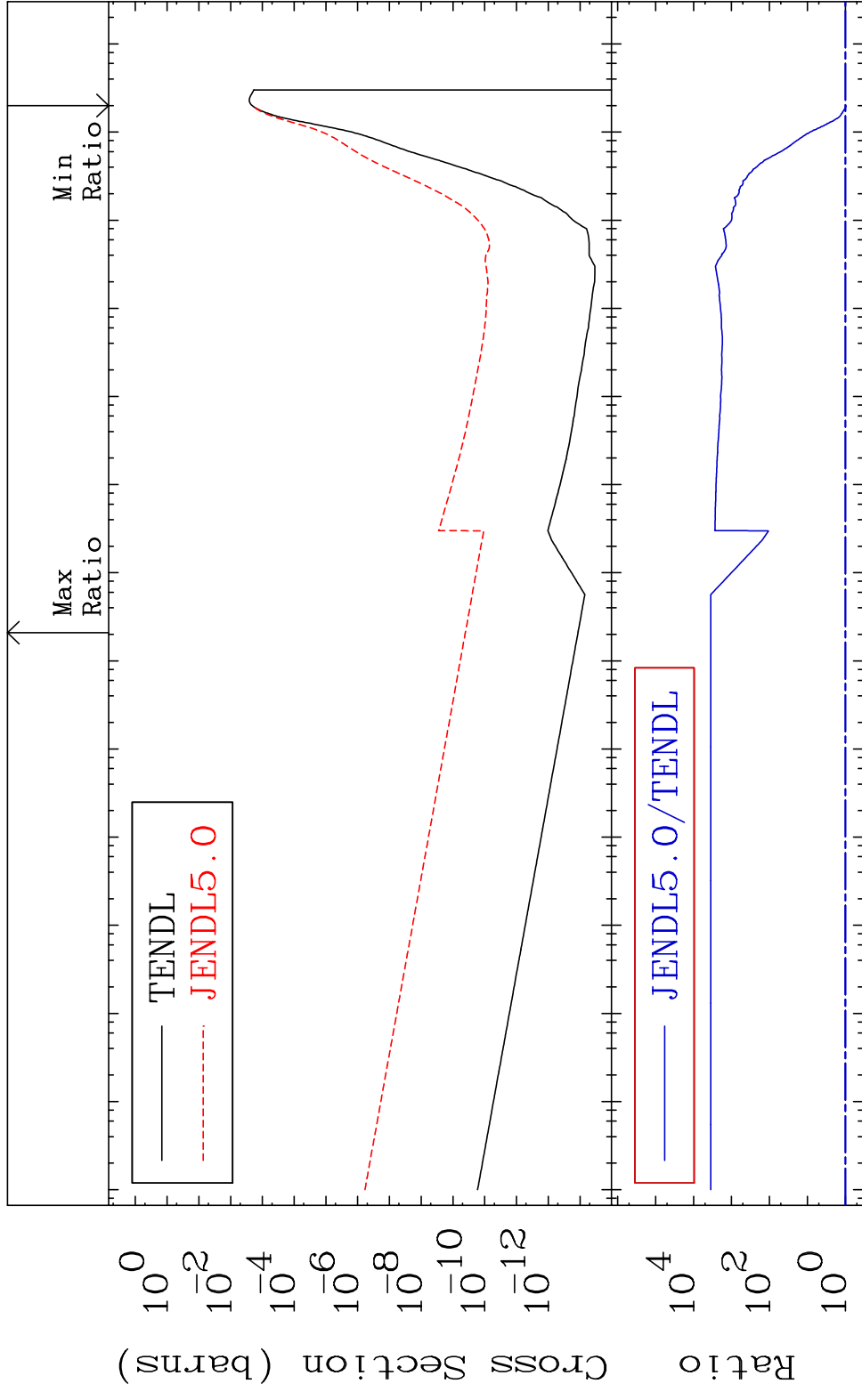
81-Tl-204

MAT 8128

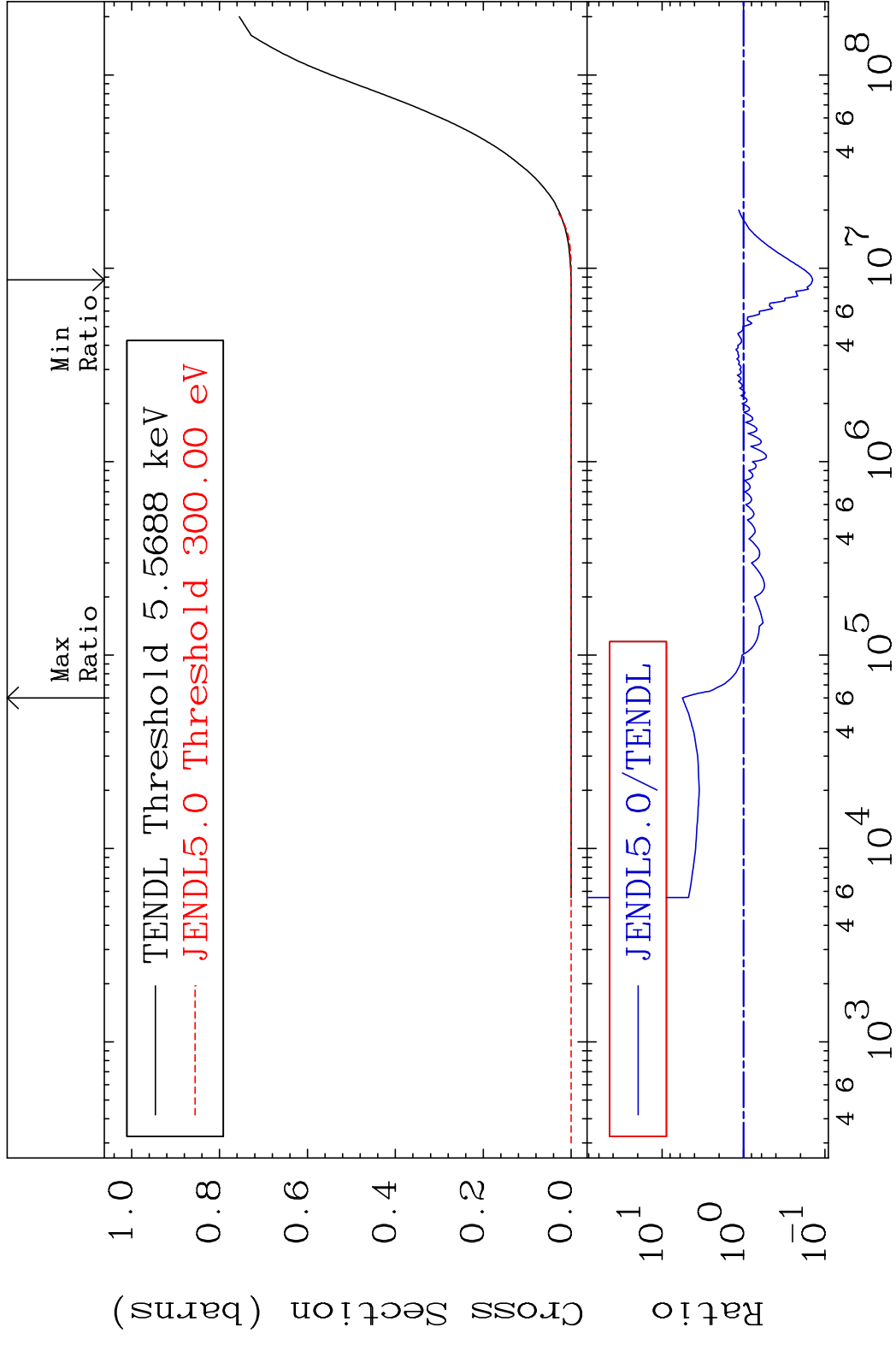
81-Tl-204

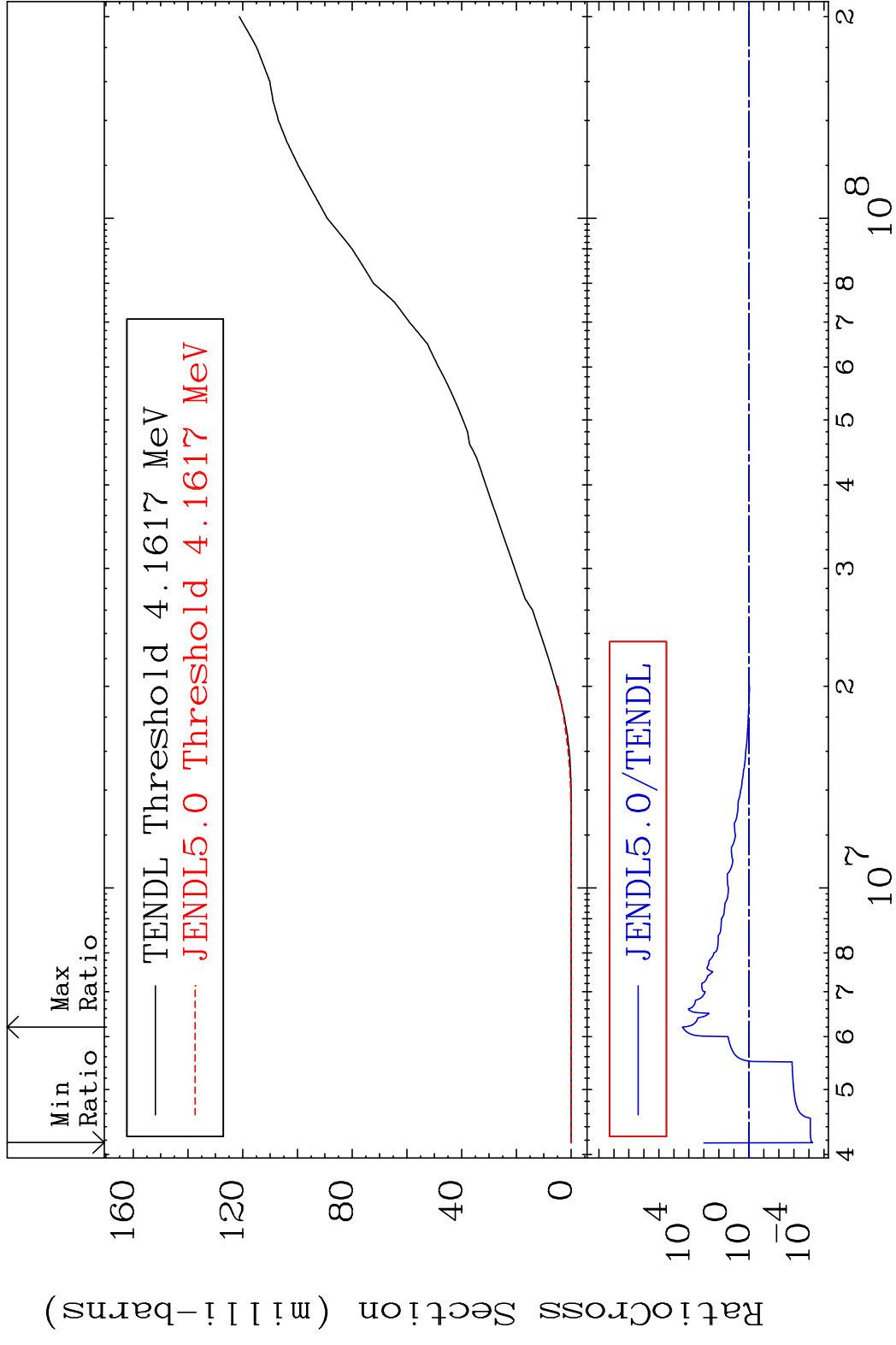
(n, α)

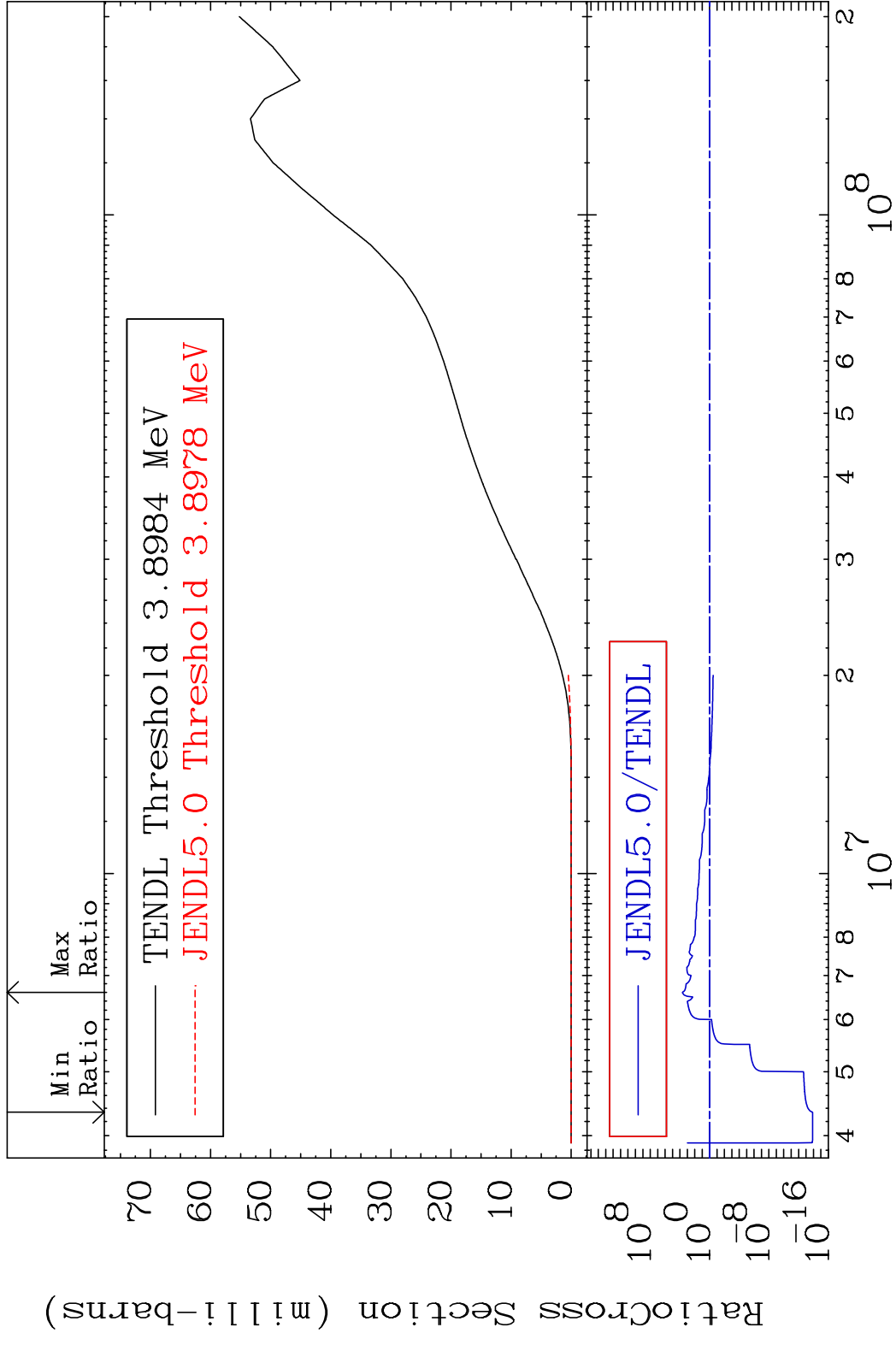
Cross Section -5.616 To 9999. %



Cross Section -85.81 To 464.7 %





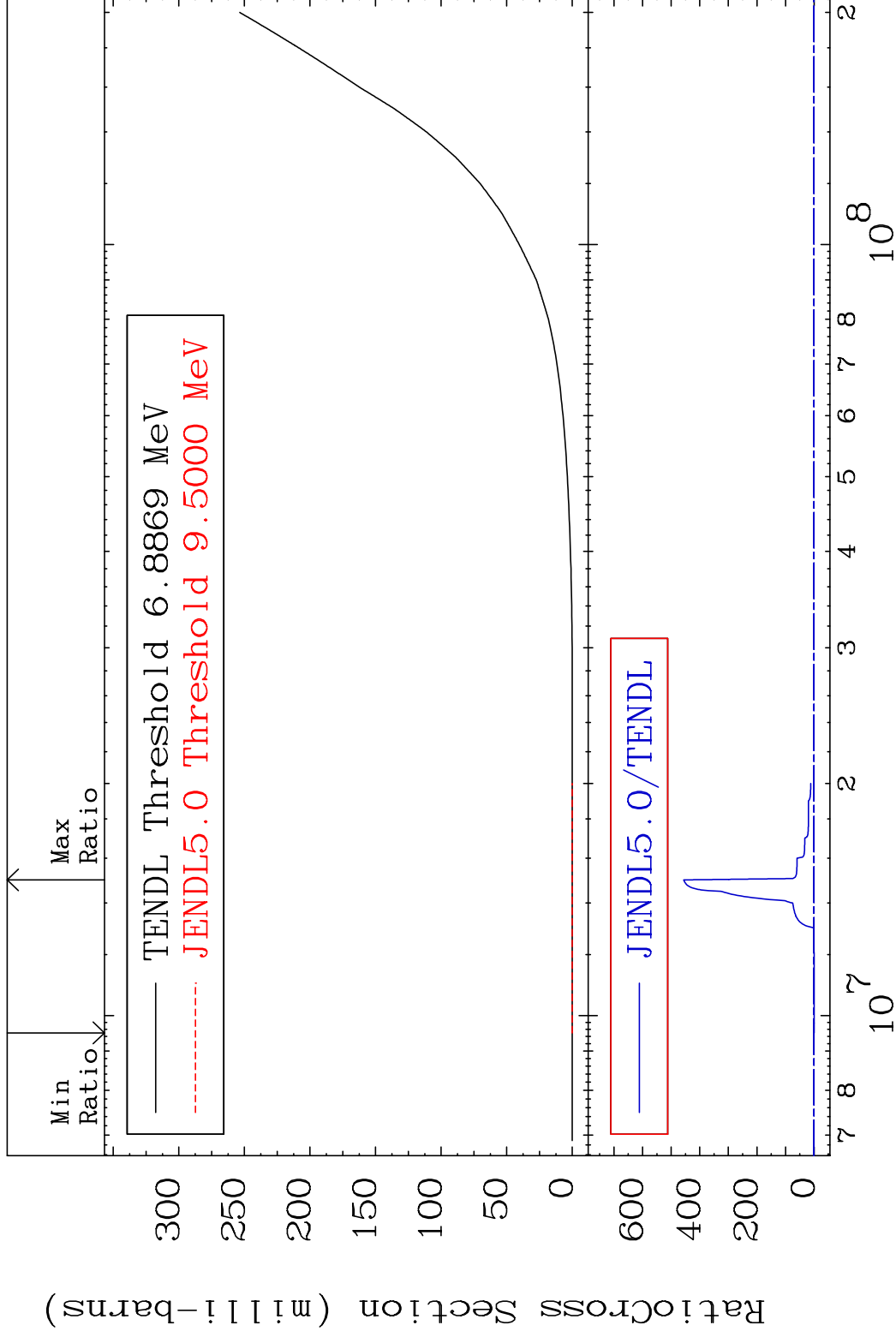


MAT 8128

He-3 Production

81-T1-204

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

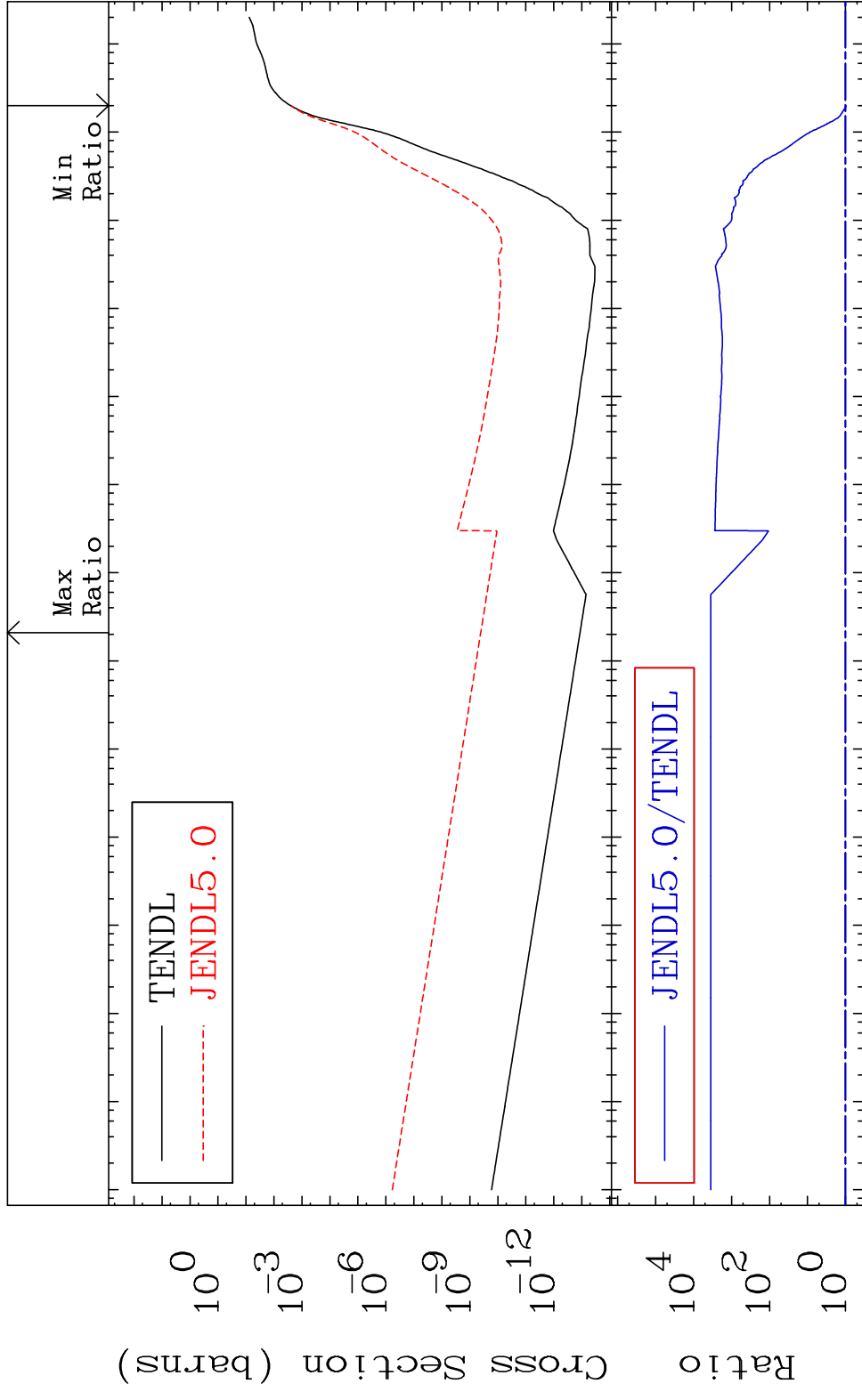
81-T1-204

MAT 8128

He-4 Production

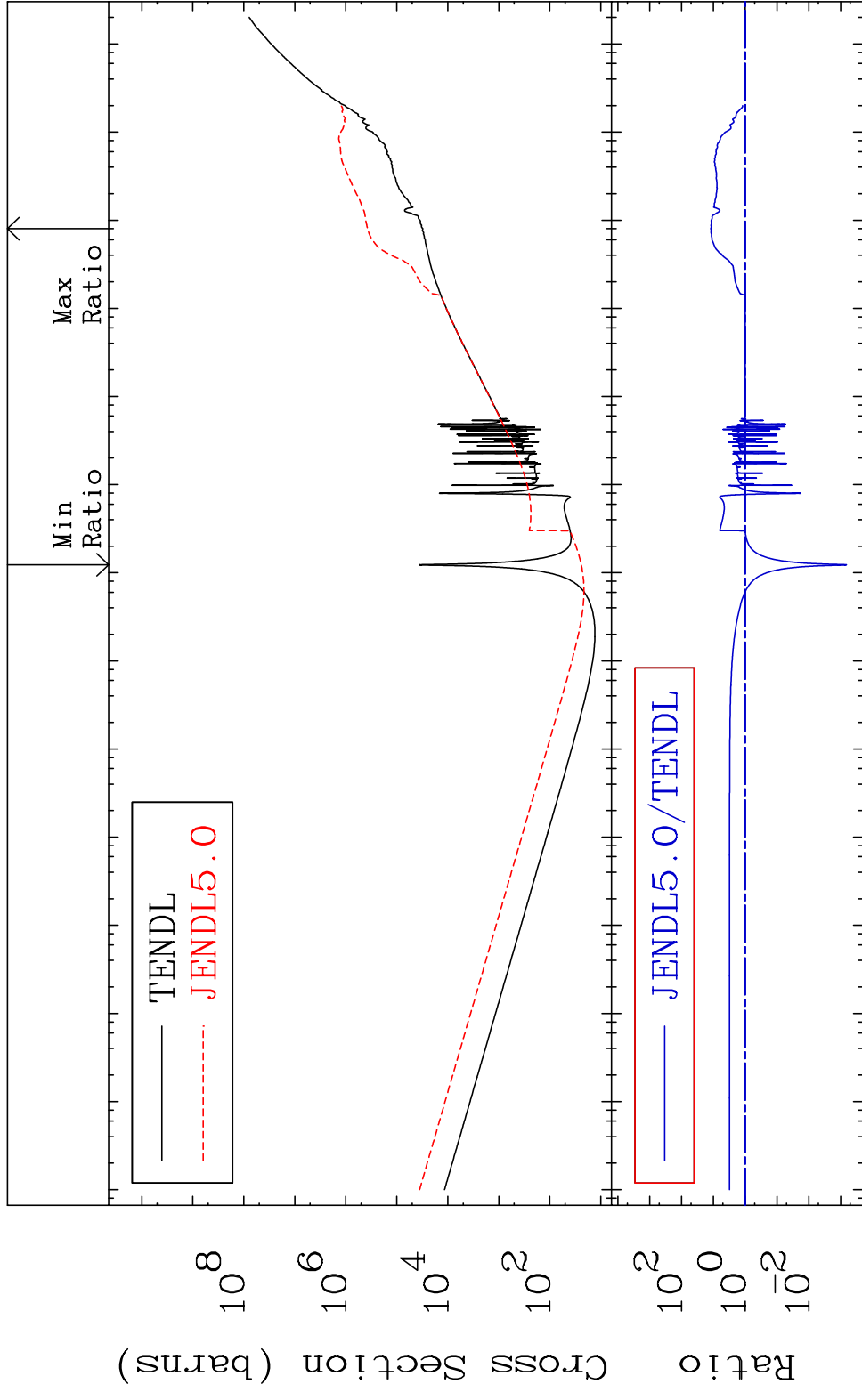
81-T1-204

Cross Section -4.627 To 9999. %



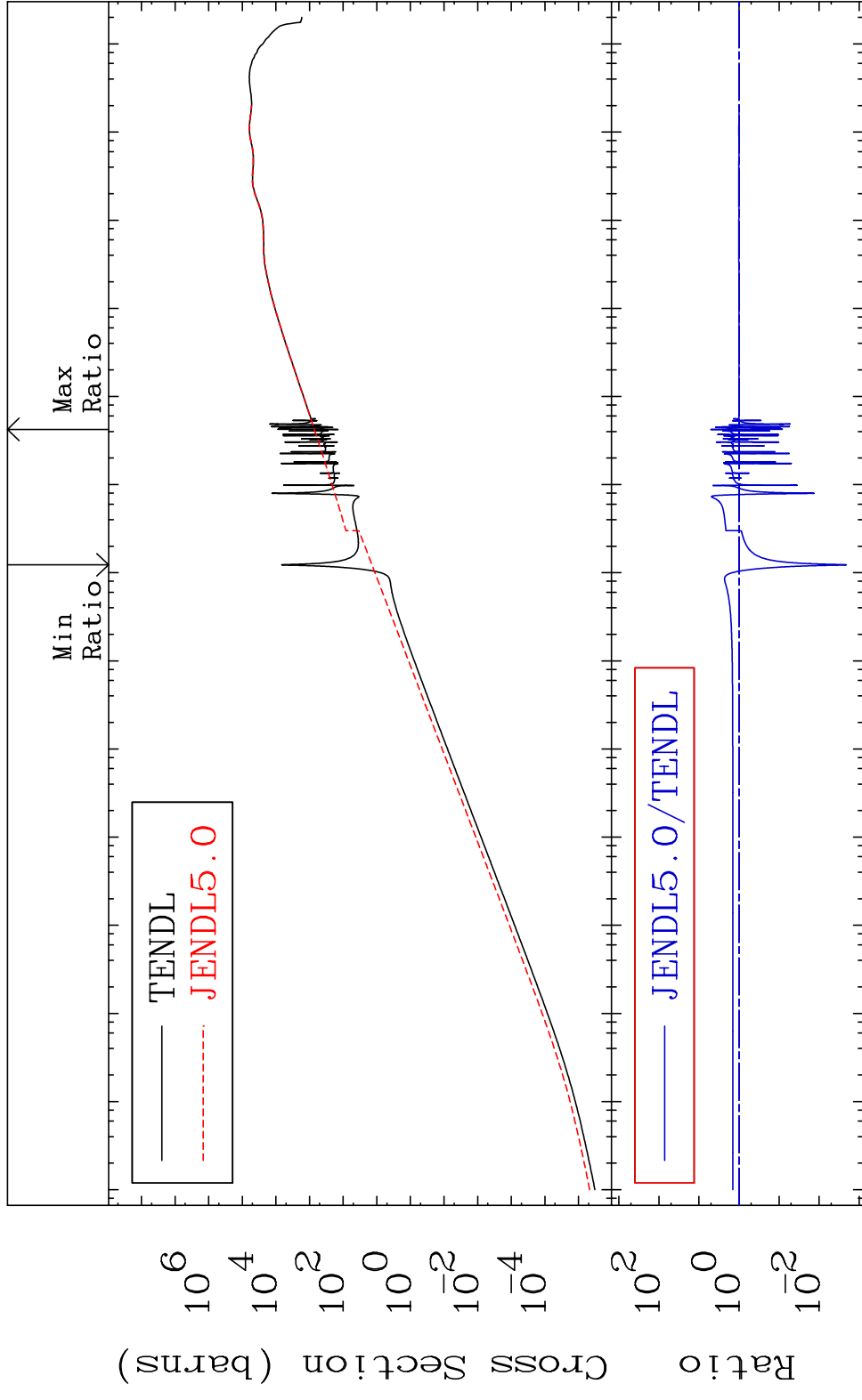
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

MAT 8128 Kerma total (eV-barns) 81-Tl-204
 Cross Section -99.93 To 1106. %

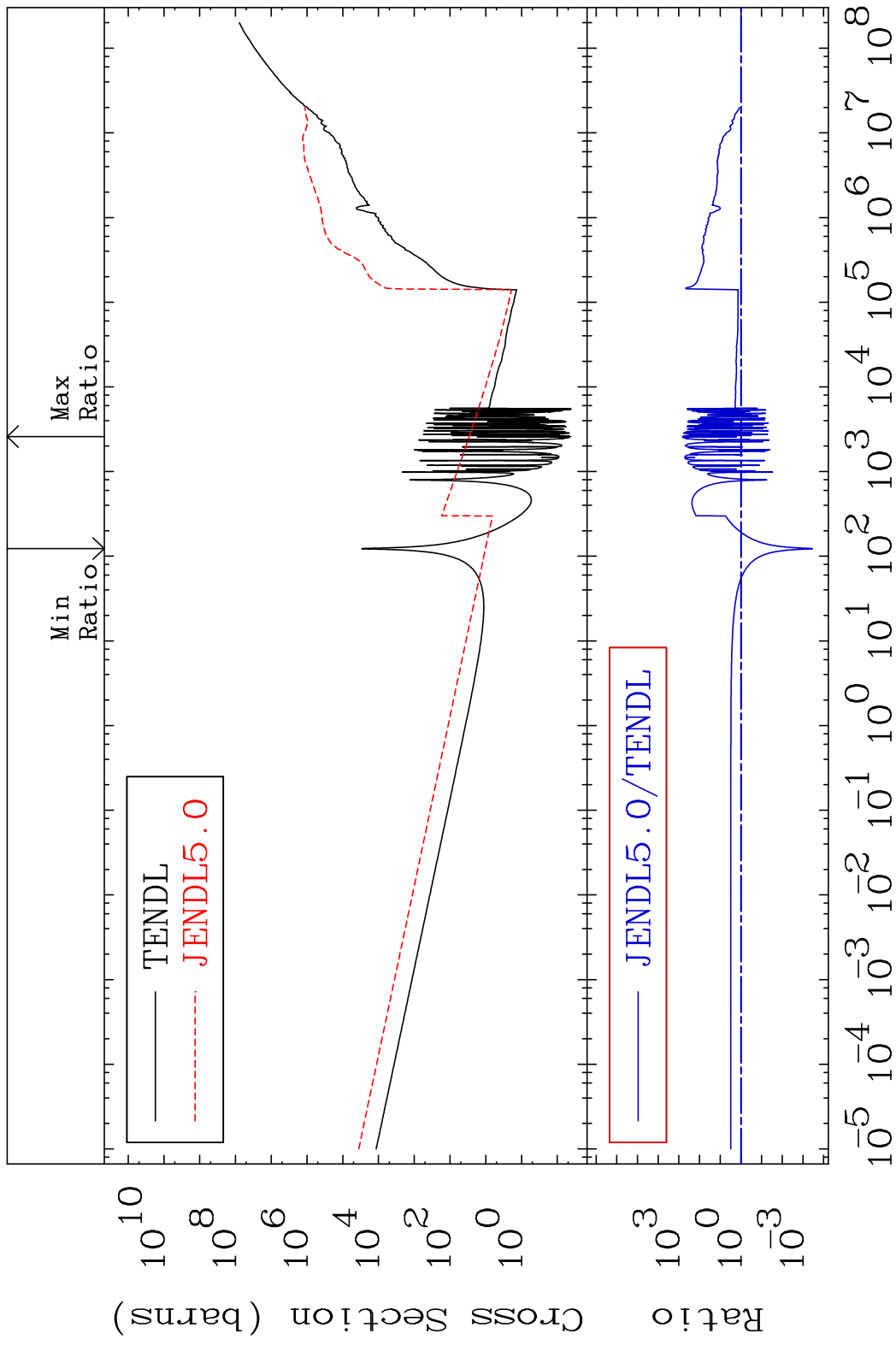


MAT 8128

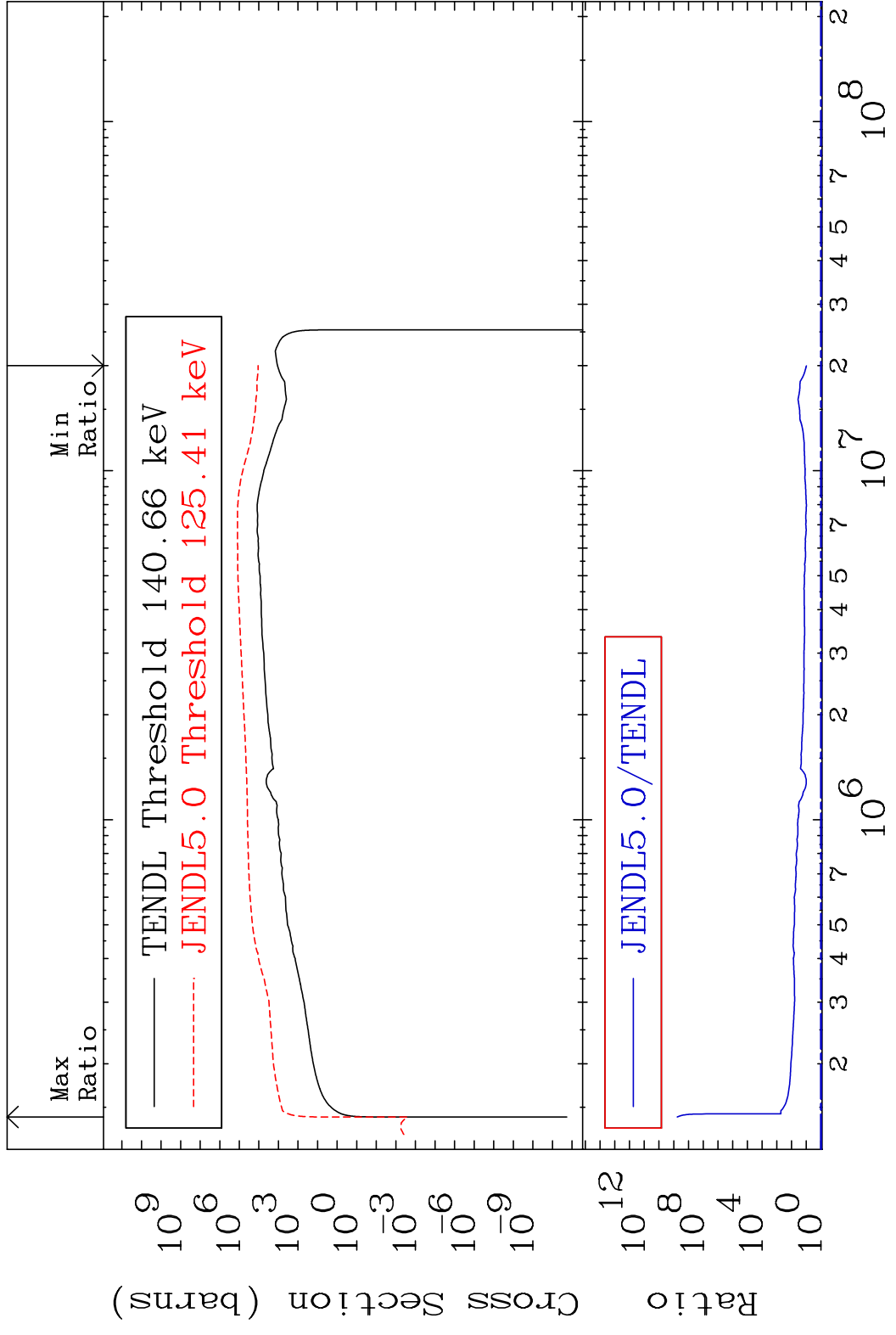
Kerma elastic Cross Section -99.79 To 409.2 %
81-Tl-204



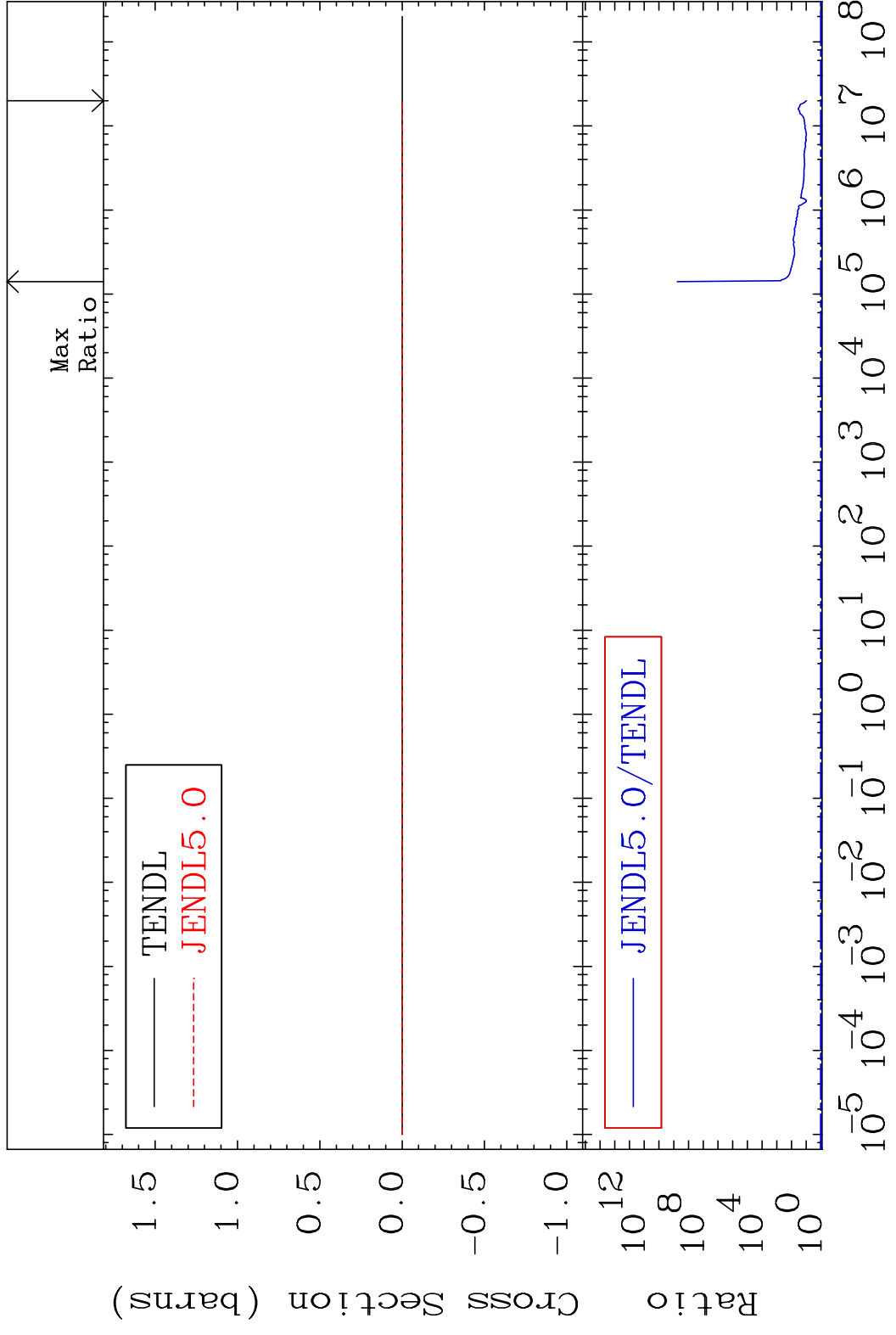
MAT 8128 Kerma non-elastic (all but mt2) 81-Tl-204
 Cross Section -99.97 To 9999. %

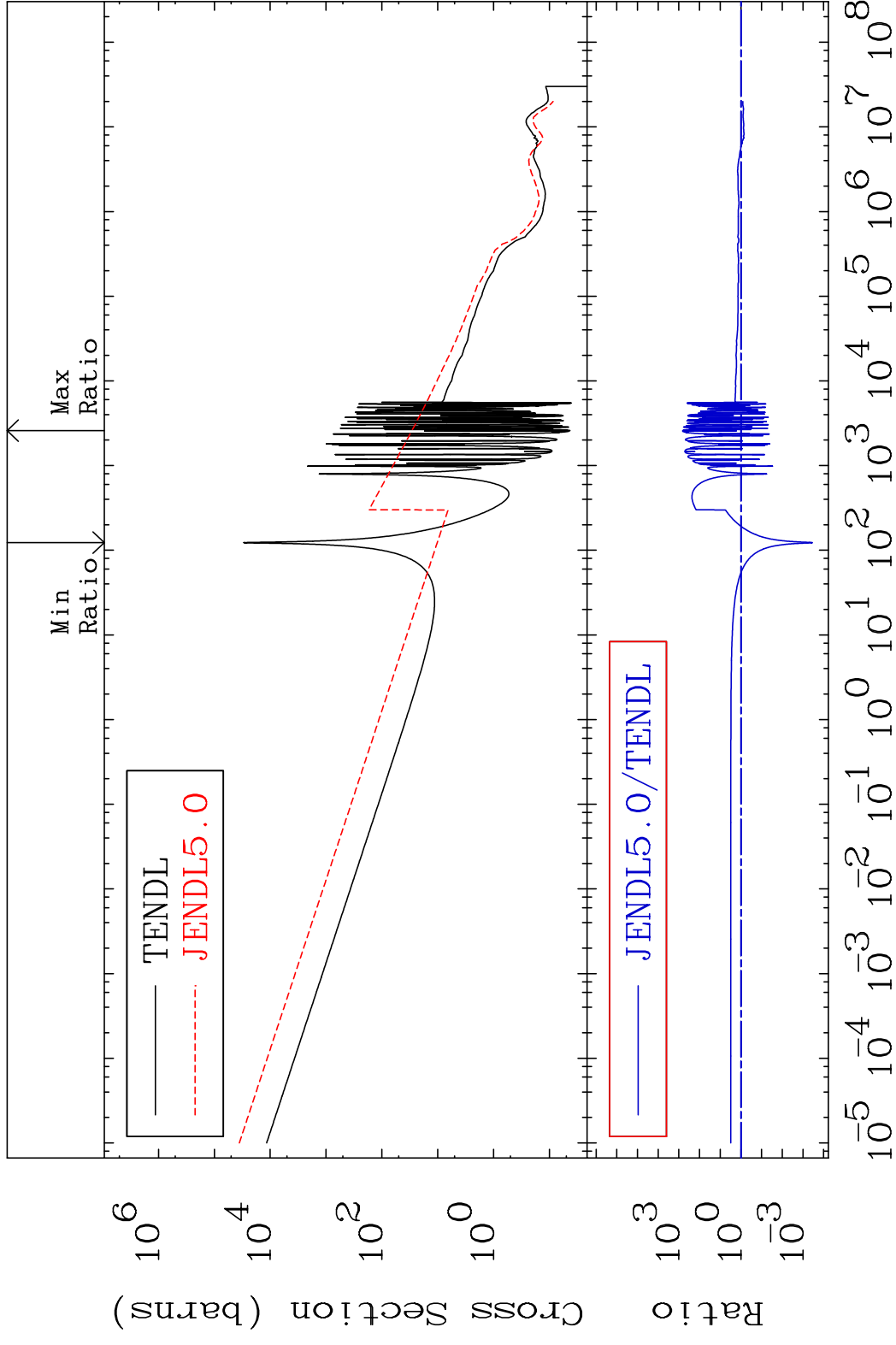


MAT 8128 Kerma inelastic (mt51-91) 81-Tl-204
 Cross Section 872.8 To 9999. %

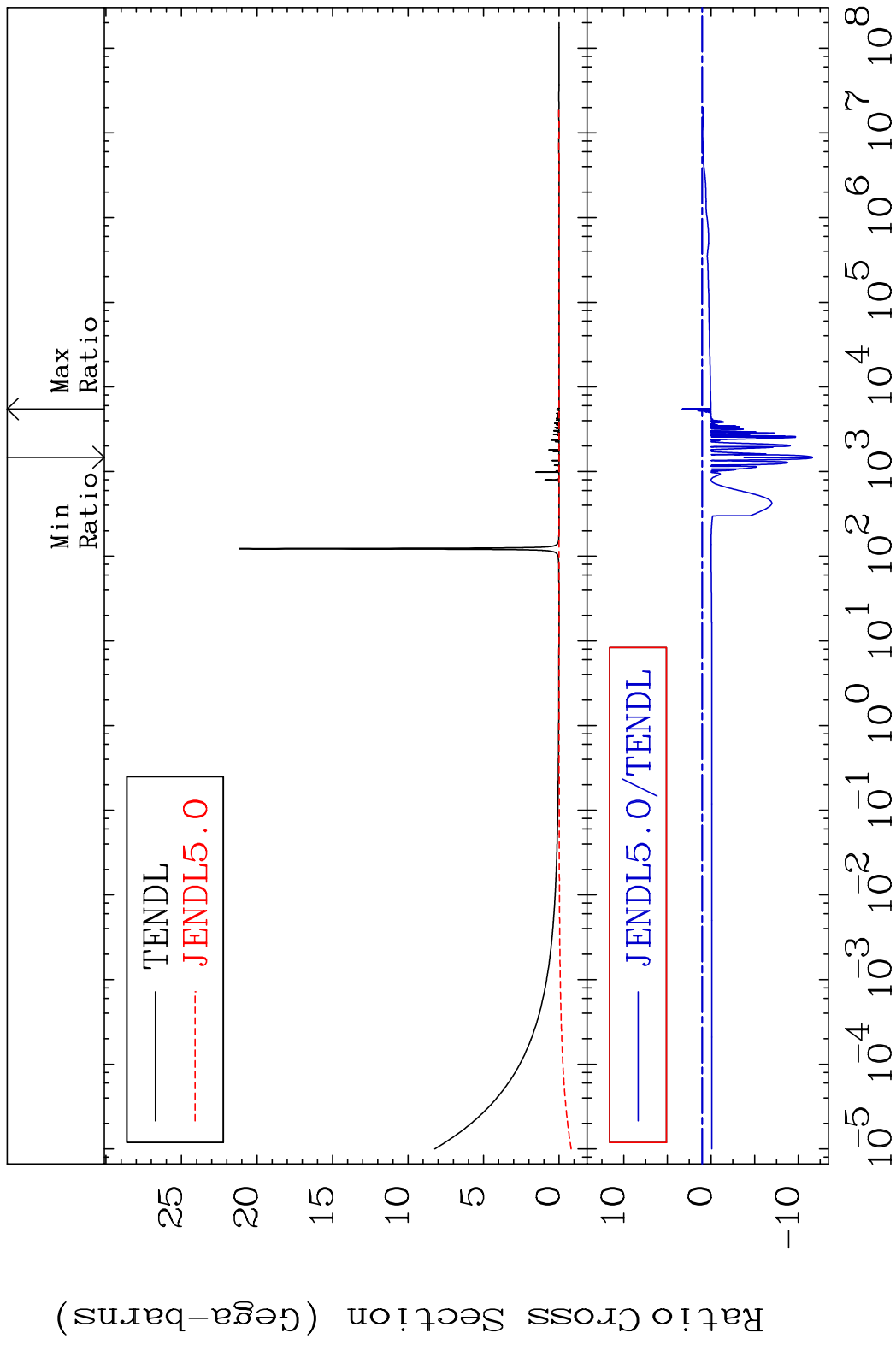


MAT 8128 Kerma fission (mt18 or mt19-20-21-38) 81-Tl-204
 Cross Section 872.8 To 9999. %

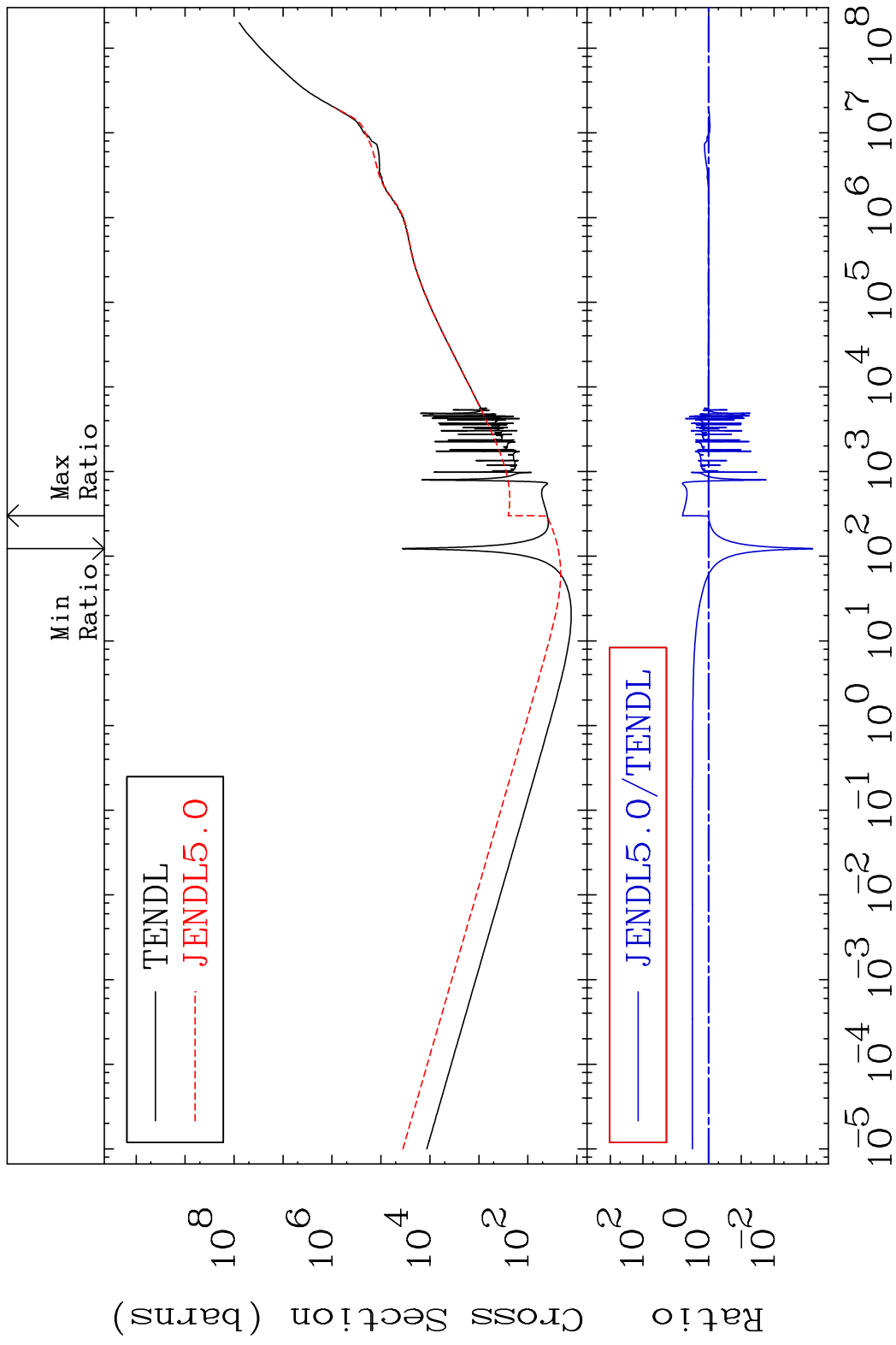




MAT 8128 Total photon (eV-barns) 81-T1-204
 Cross Section -1263. To 228.8 %



MAT 8128 Total kinematic kerma (high limit) 81-Tl-204
 Cross Section -99.93 To 529.2 %

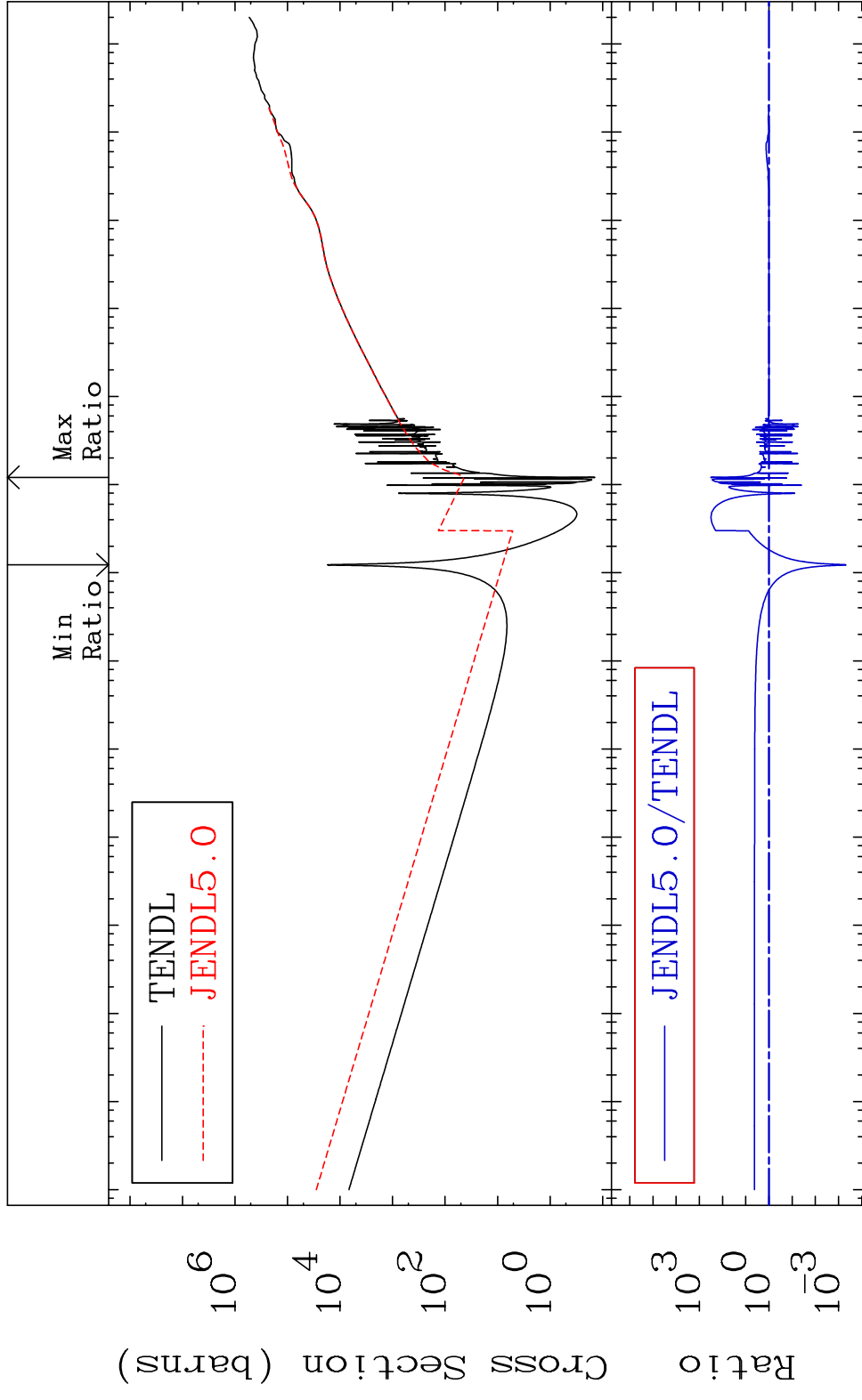


MAT 8128

Dpa total (eV-barns)

81-T1-204

Cross Section -99.95 To 9999. %



60

Incident Energy (eV)

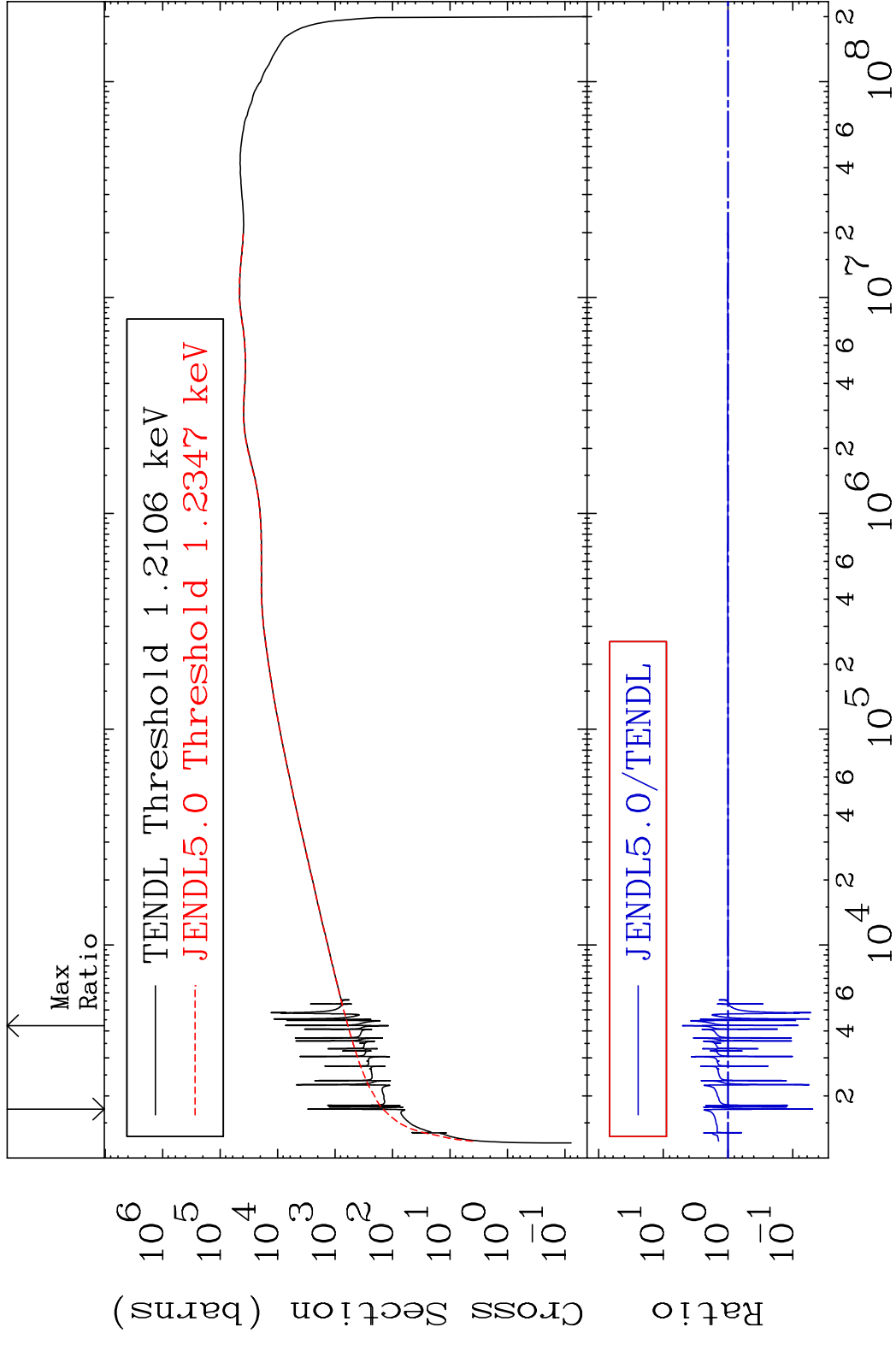
81-T1-204

MAT 8128

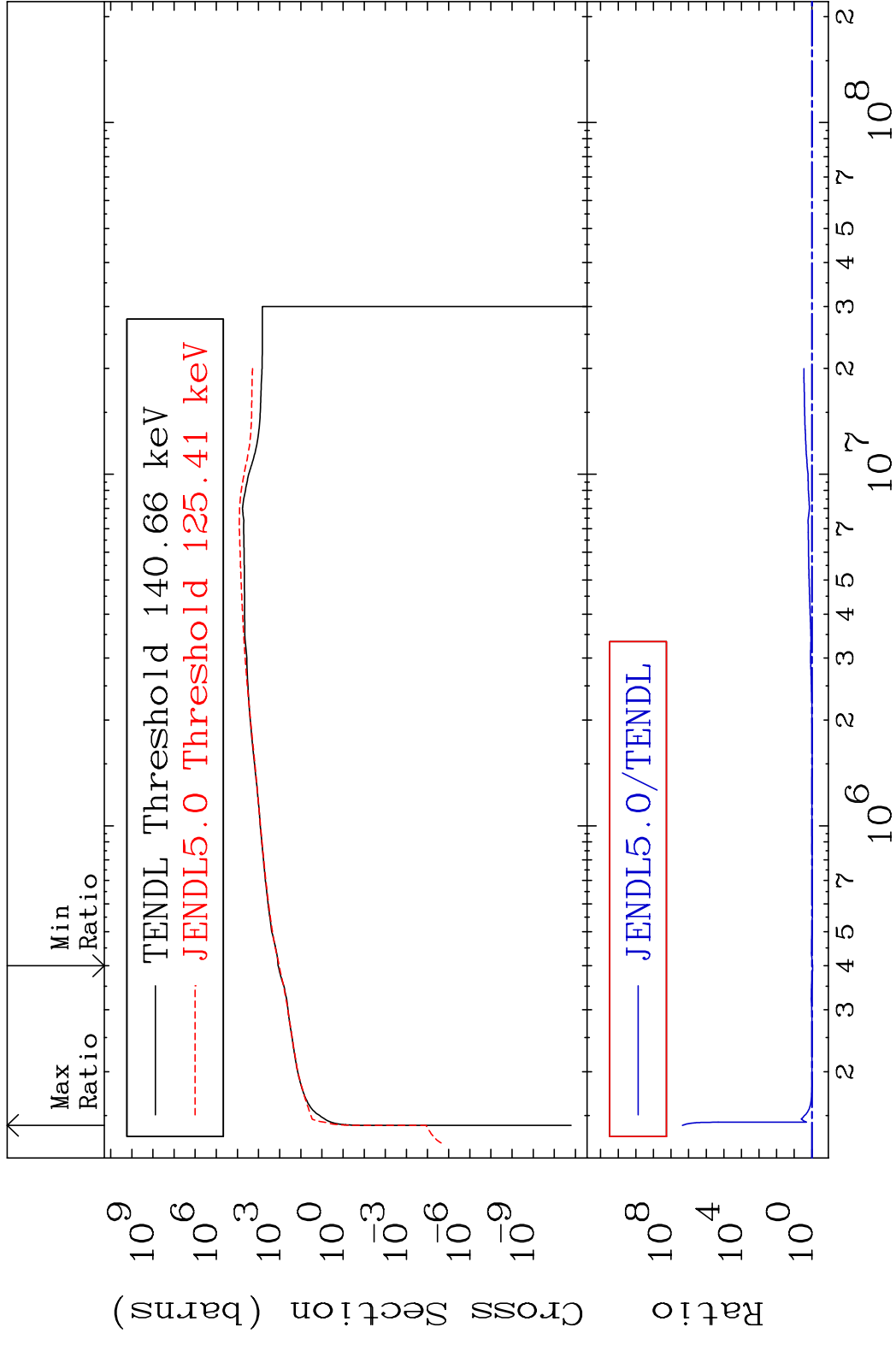
Dpa elastic (mt2)

81-Tl-204

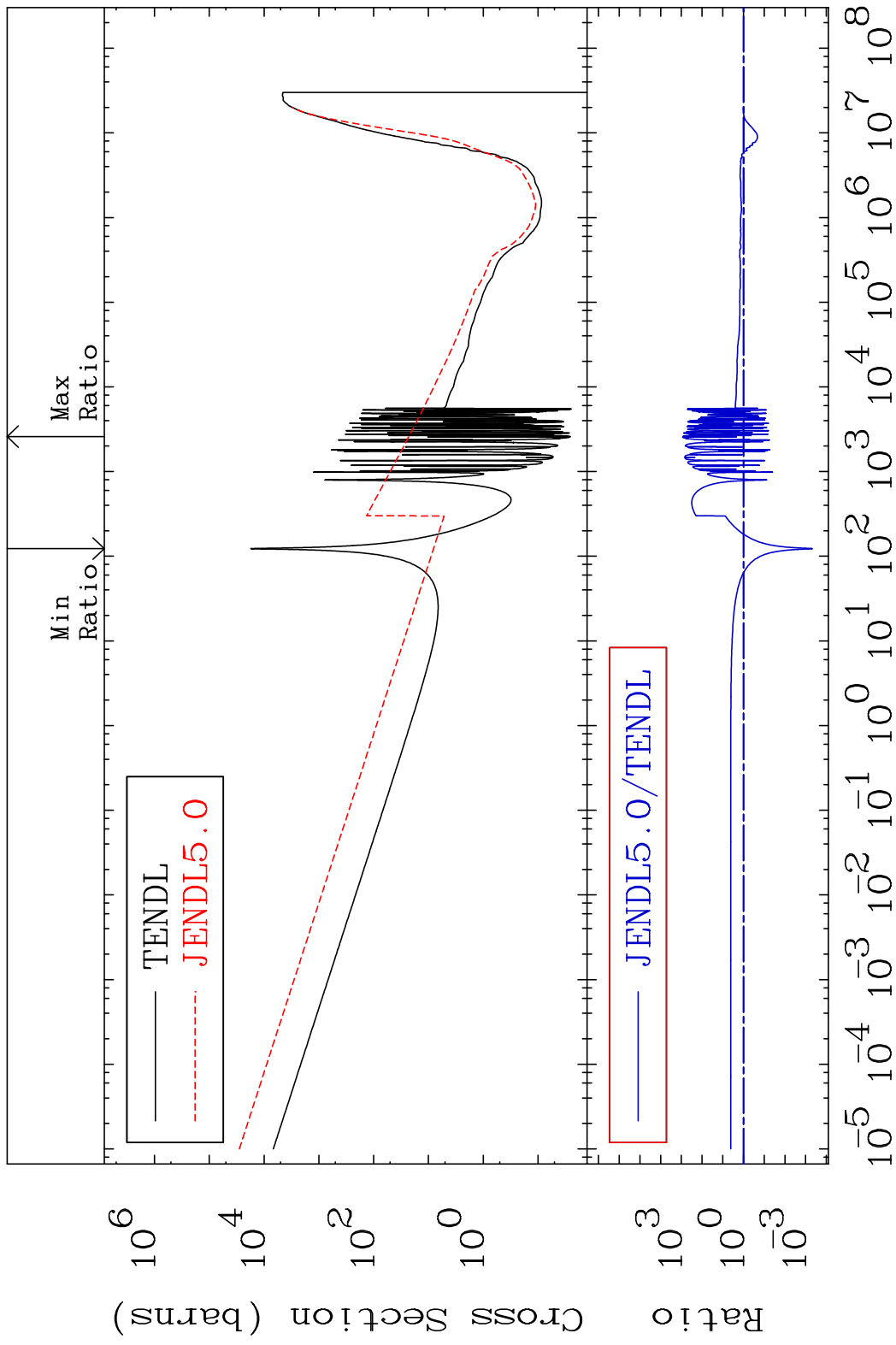
Cross Section -95.07 To 408.3 %



MAT 8128 Dpa inelastic (mt51-91) 81-Tl-204
 Cross Section -8.875 To 9999. %

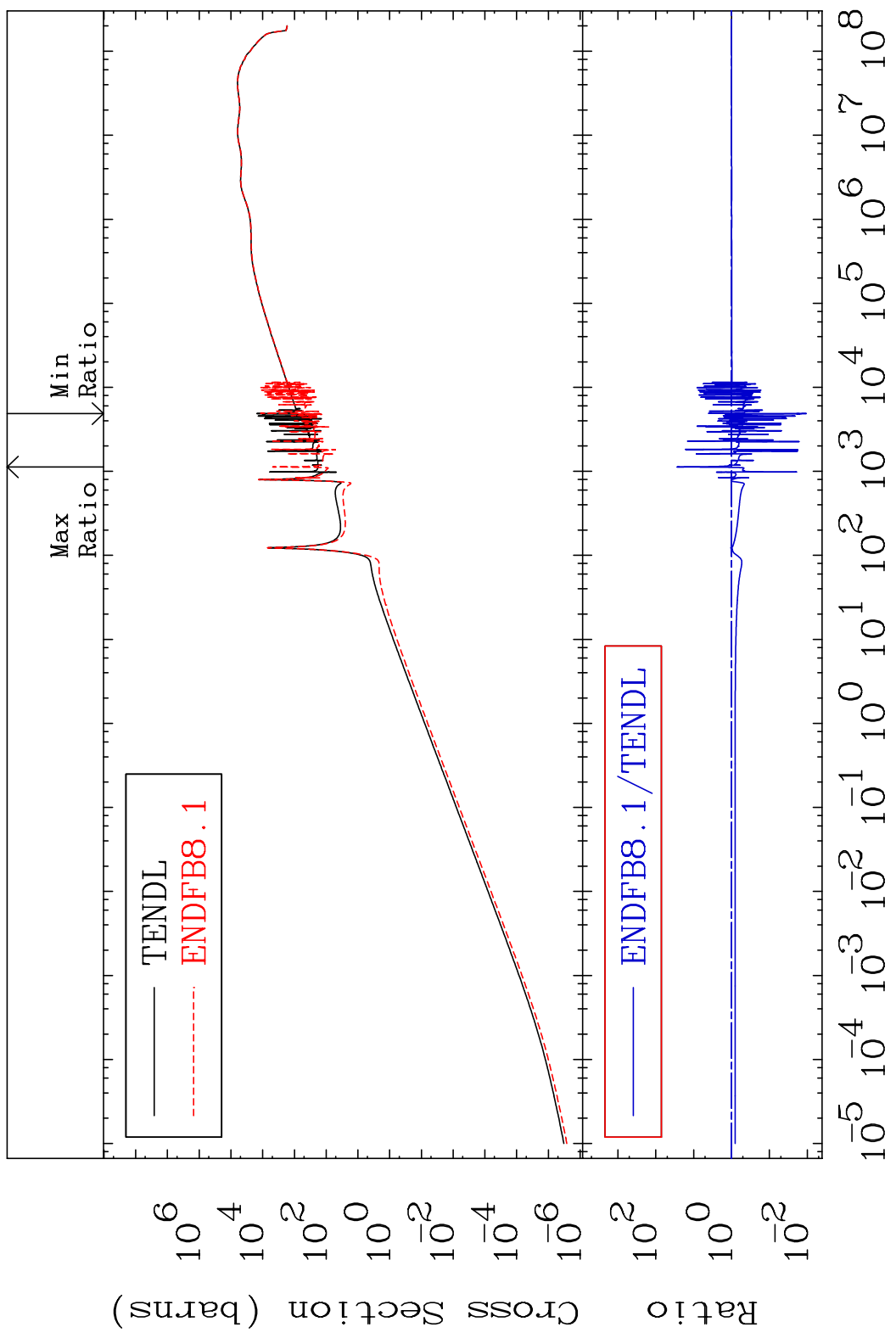


MAT 8128 Dpa disappearance (mt102 -120) 81-T1-204
 Cross Section -99.95 To 9999. %

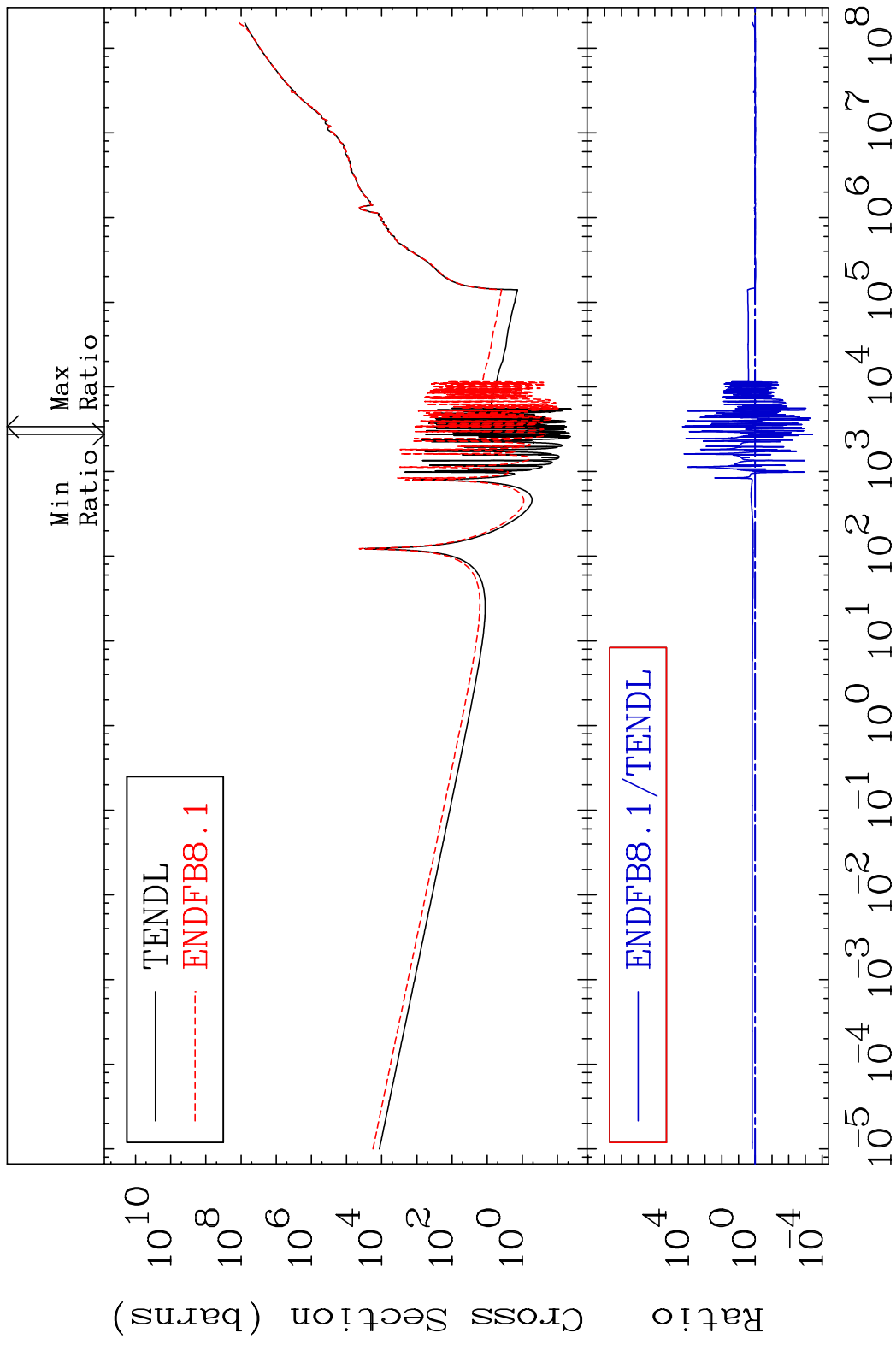


MAT 8128

Kerma elastic Cross Section -98.95 To 2625. %
81-Tl-204

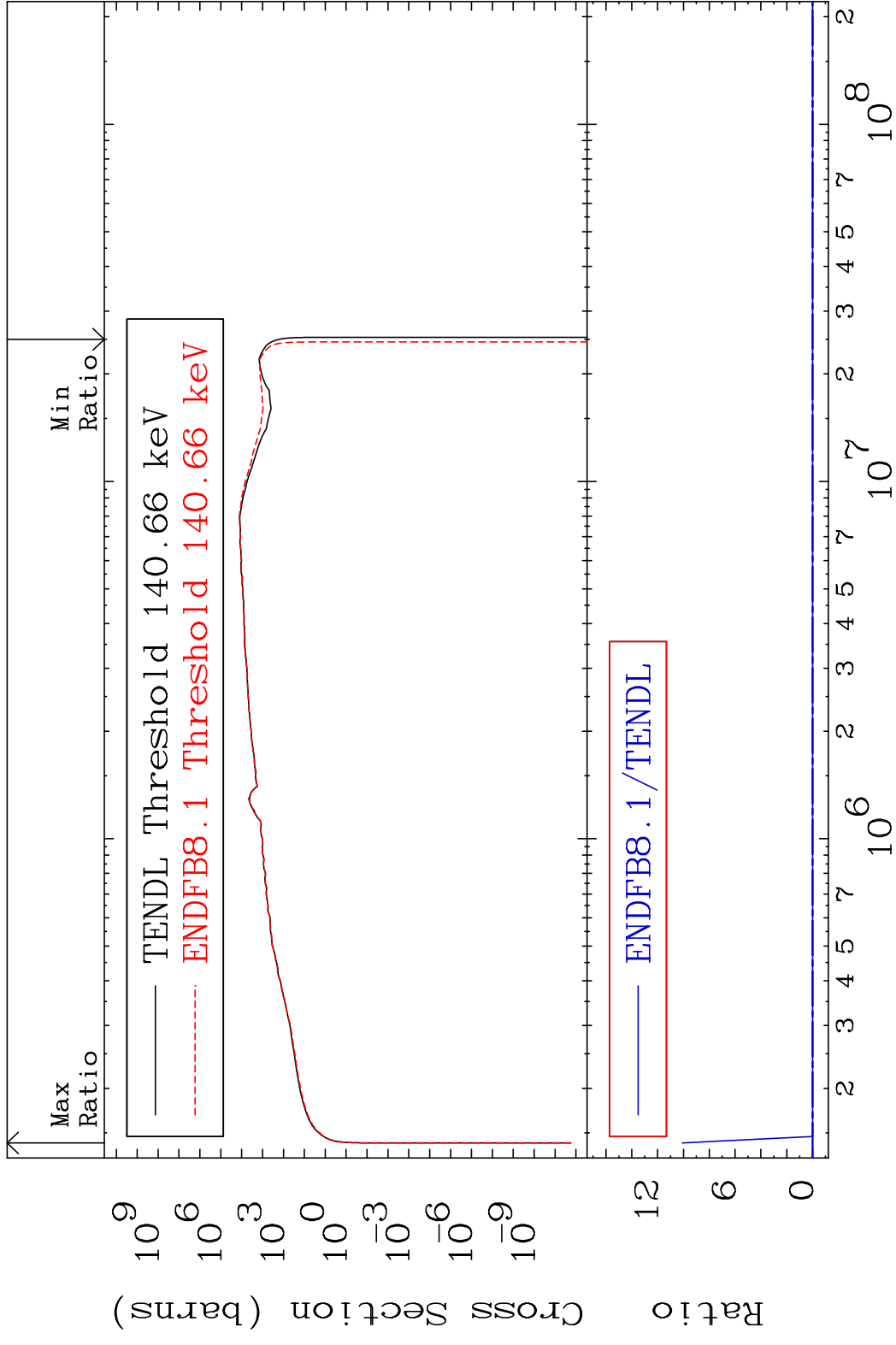


MAT 8128 Kerma non-elastic (all but mt2) 81-Tl-204
 Cross Section -99.96 To 9999. %

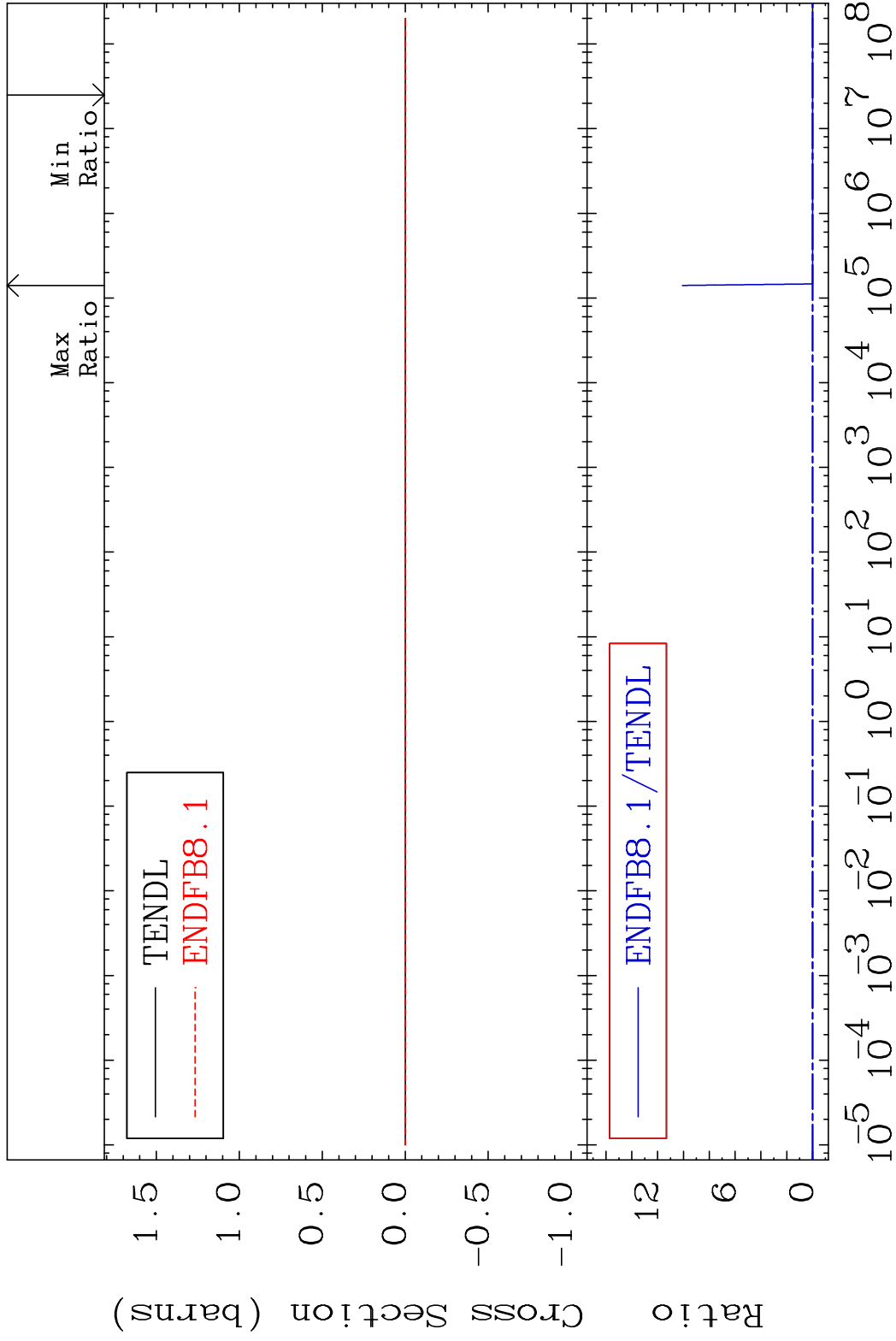


65 Incident Energy (eV) 81-Tl-204

MAT 8128 Kerma inelastic (mt51-91) 81-Tl-204
 Cross Section -278.0 To 9999. %

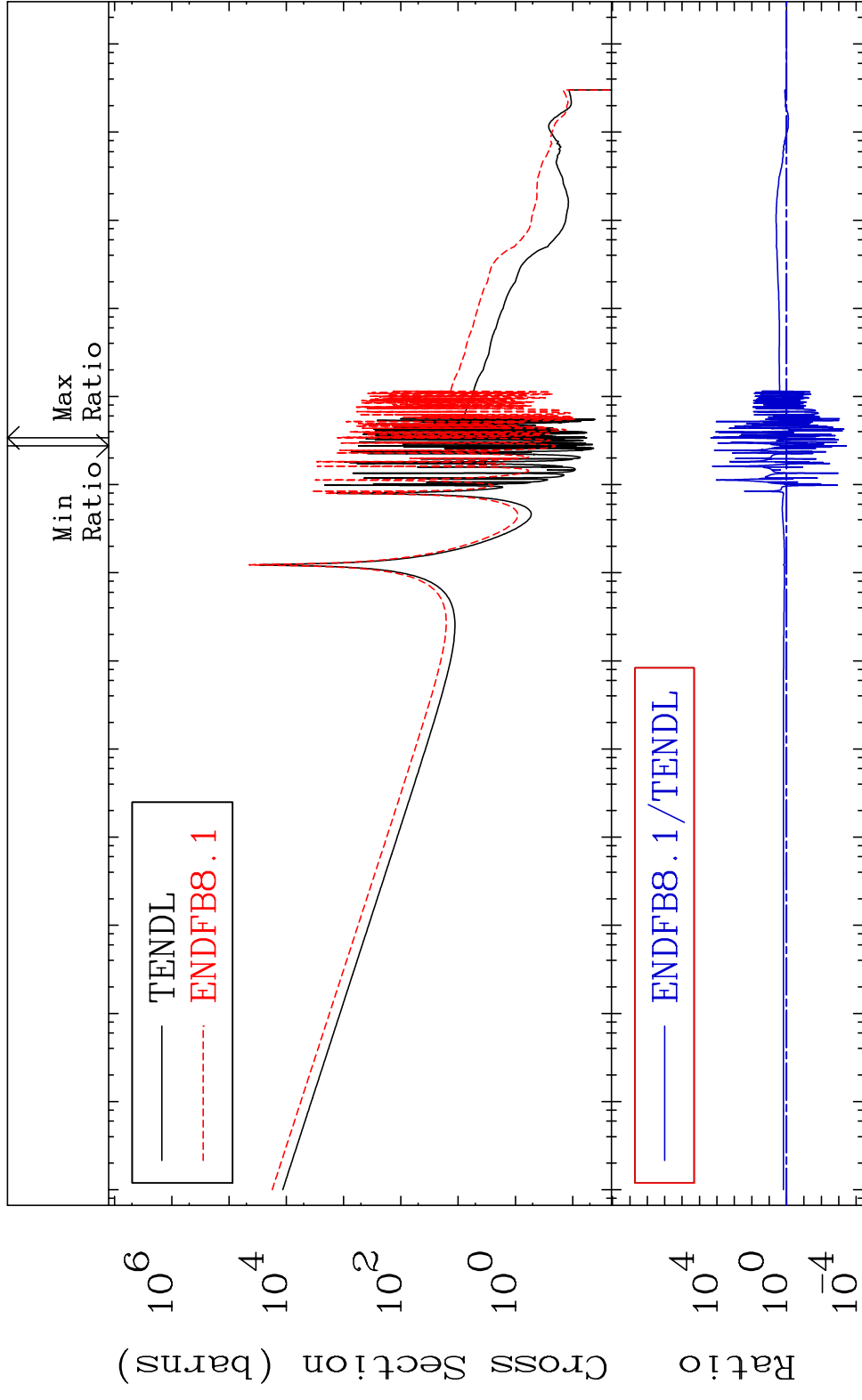


MAT 8128 Kerma fission (mt18 or mt19-20-21-38) 81-Tl-204
 Cross Section -278.0 To 9999. %



MAT 8128

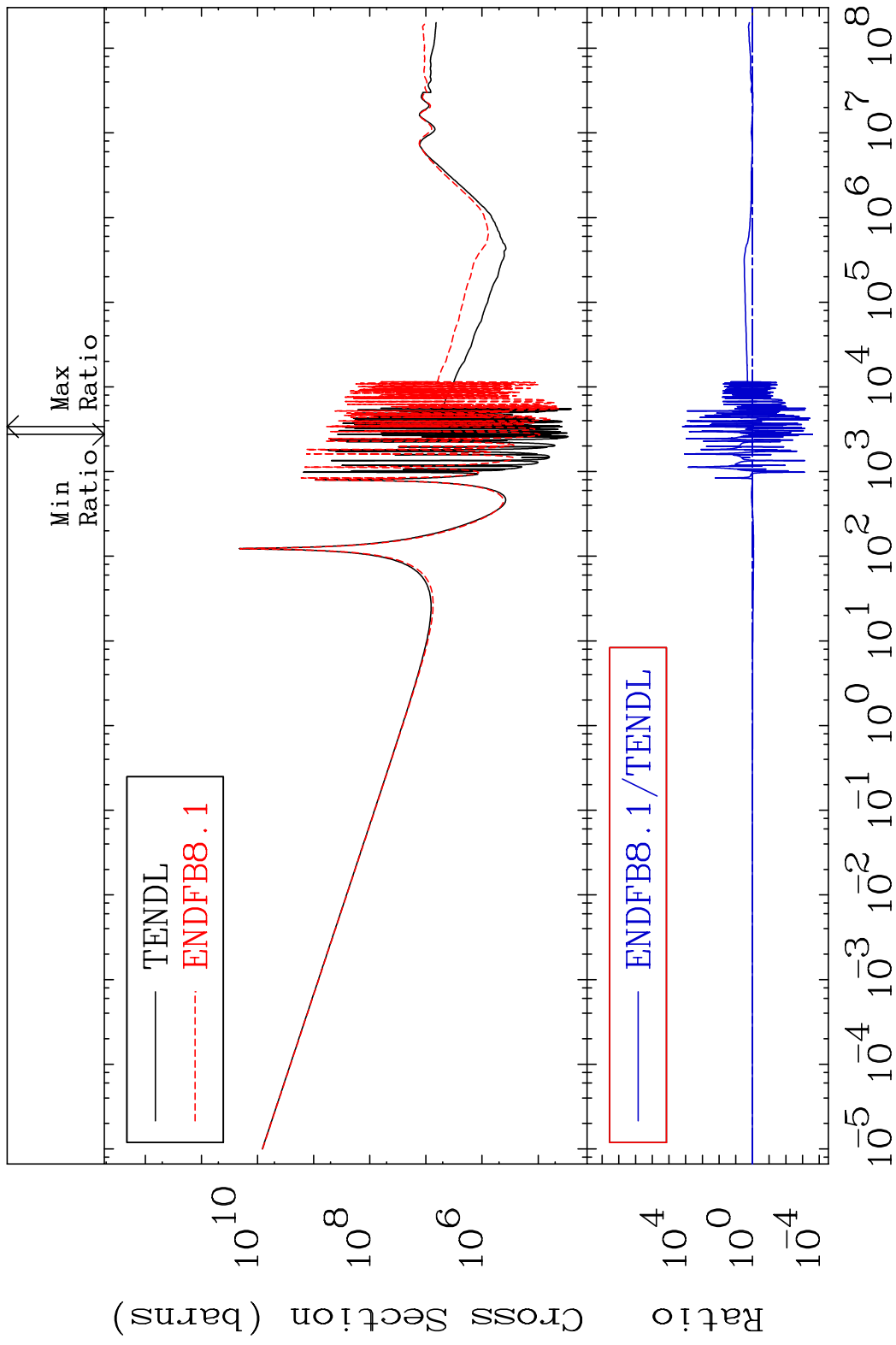
Kerma capture (mt102) 81-Tl-204
Cross Section -99.96 To 9999. %



68

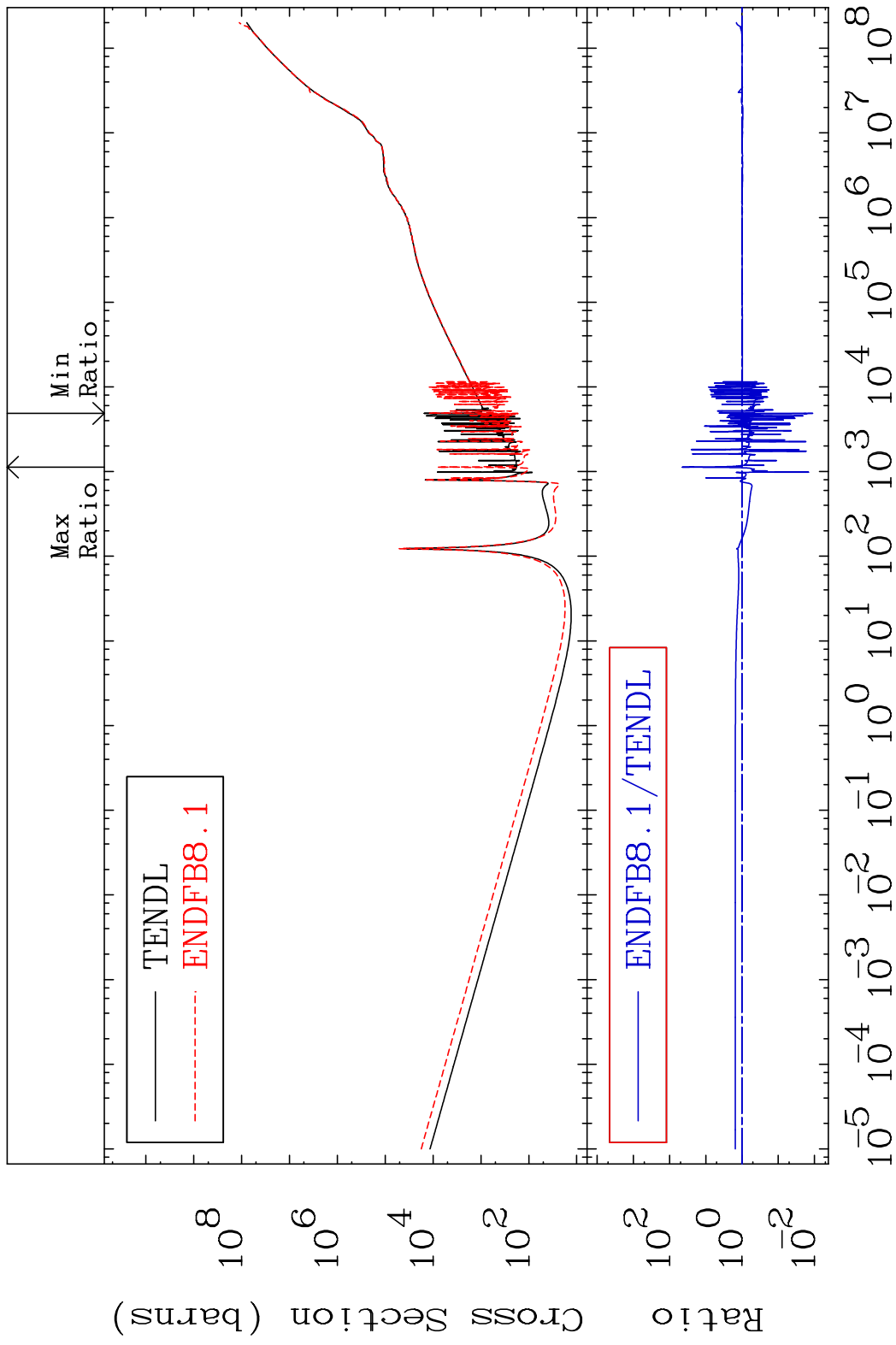
Incident Energy (eV) 81-Tl-204

MAT 8128 Total photon (eV-barns) 81-T1-204
Cross Section -99.97 To 9999. %



69 Incident Energy (eV) 81-T1-204

MAT 8128 Total kinematic kerma (high limit) 81-Tl-204
Cross Section -98.87 To 4331. %



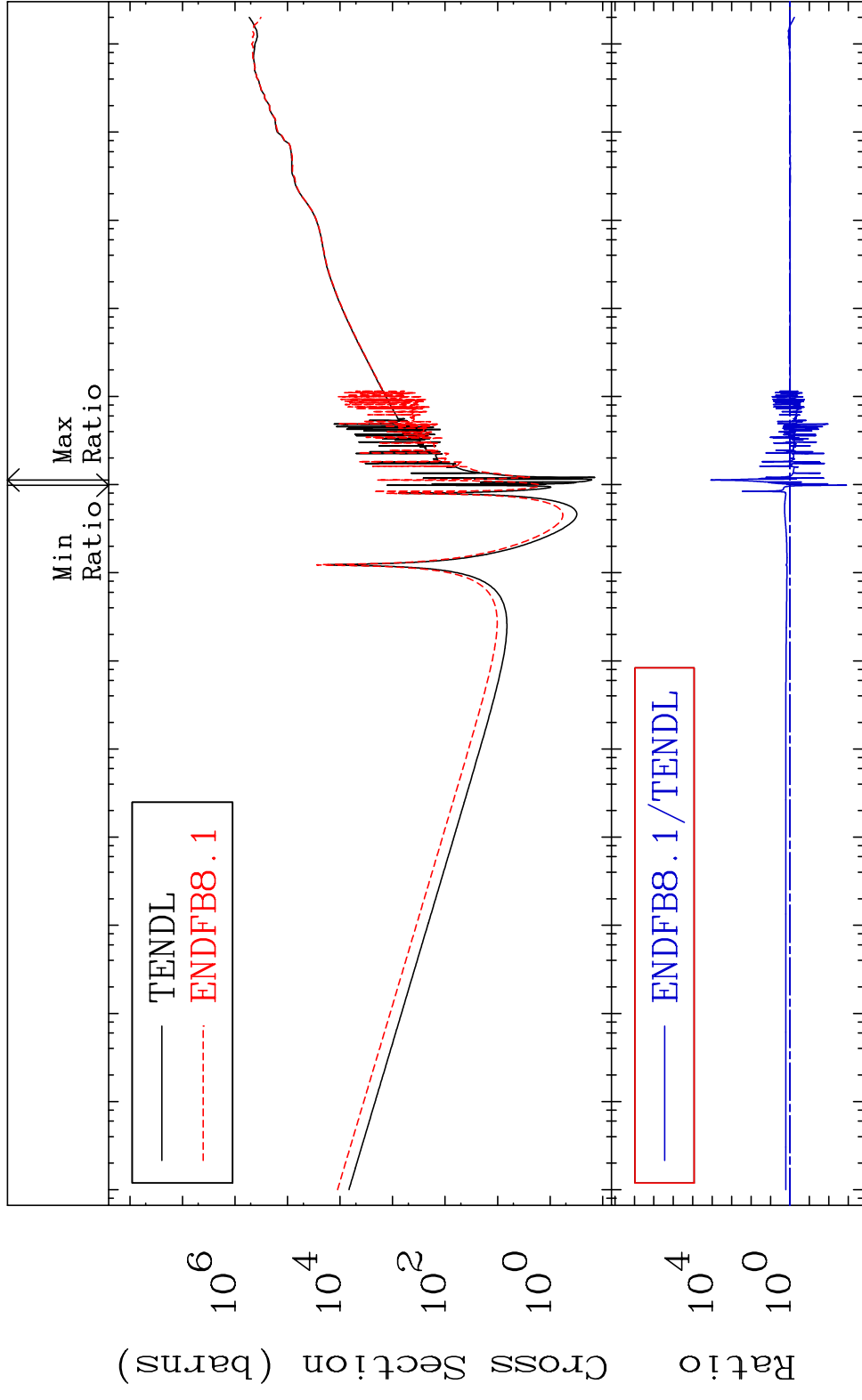
70 Incident Energy (eV) 81-Tl-204

MAT 8128

Dpa total (eV-barns)

81-T1-204

Cross Section -99.87 To 9999. %



71

Incident Energy (eV)

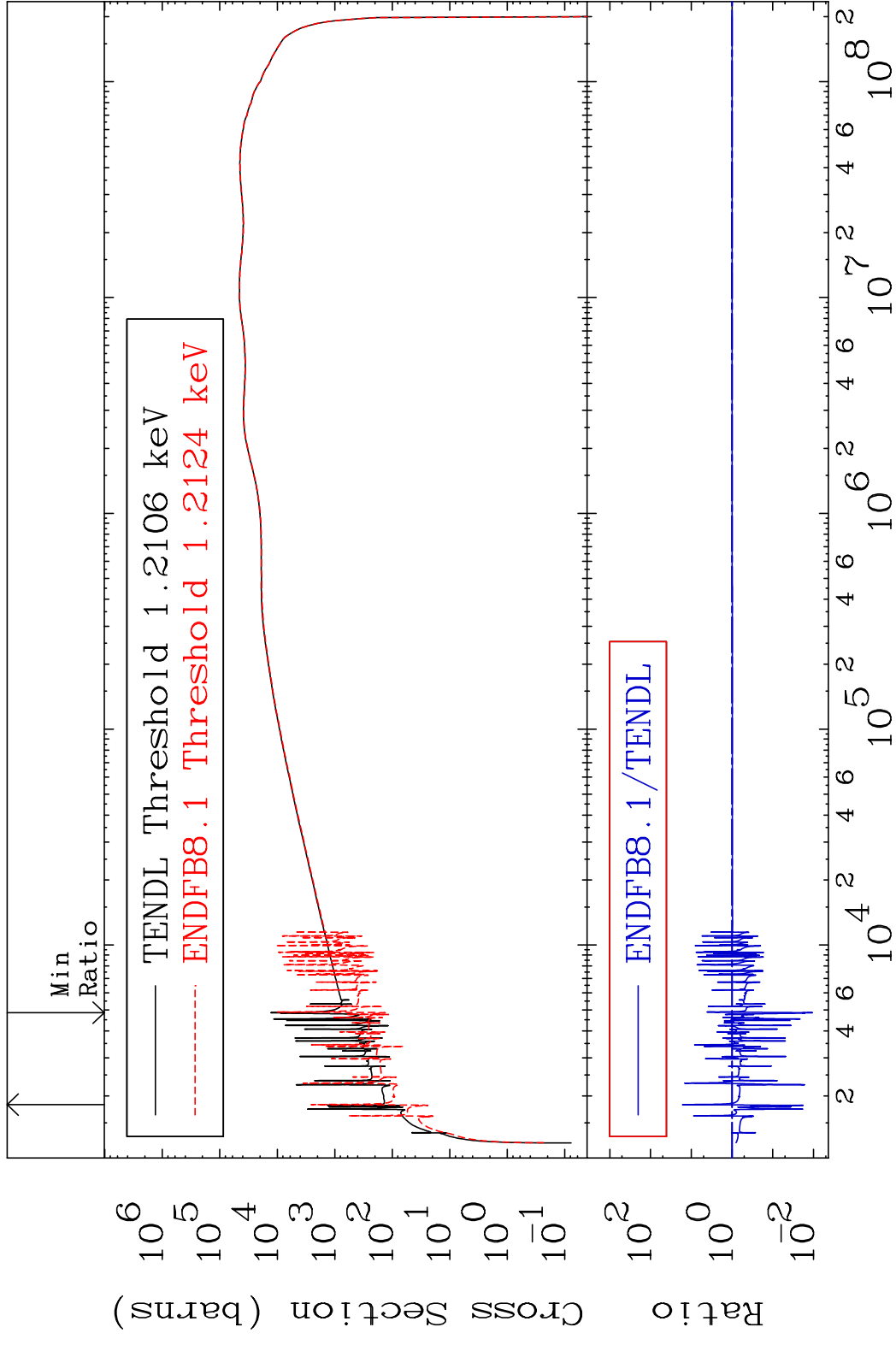
81-T1-204

MAT 8128

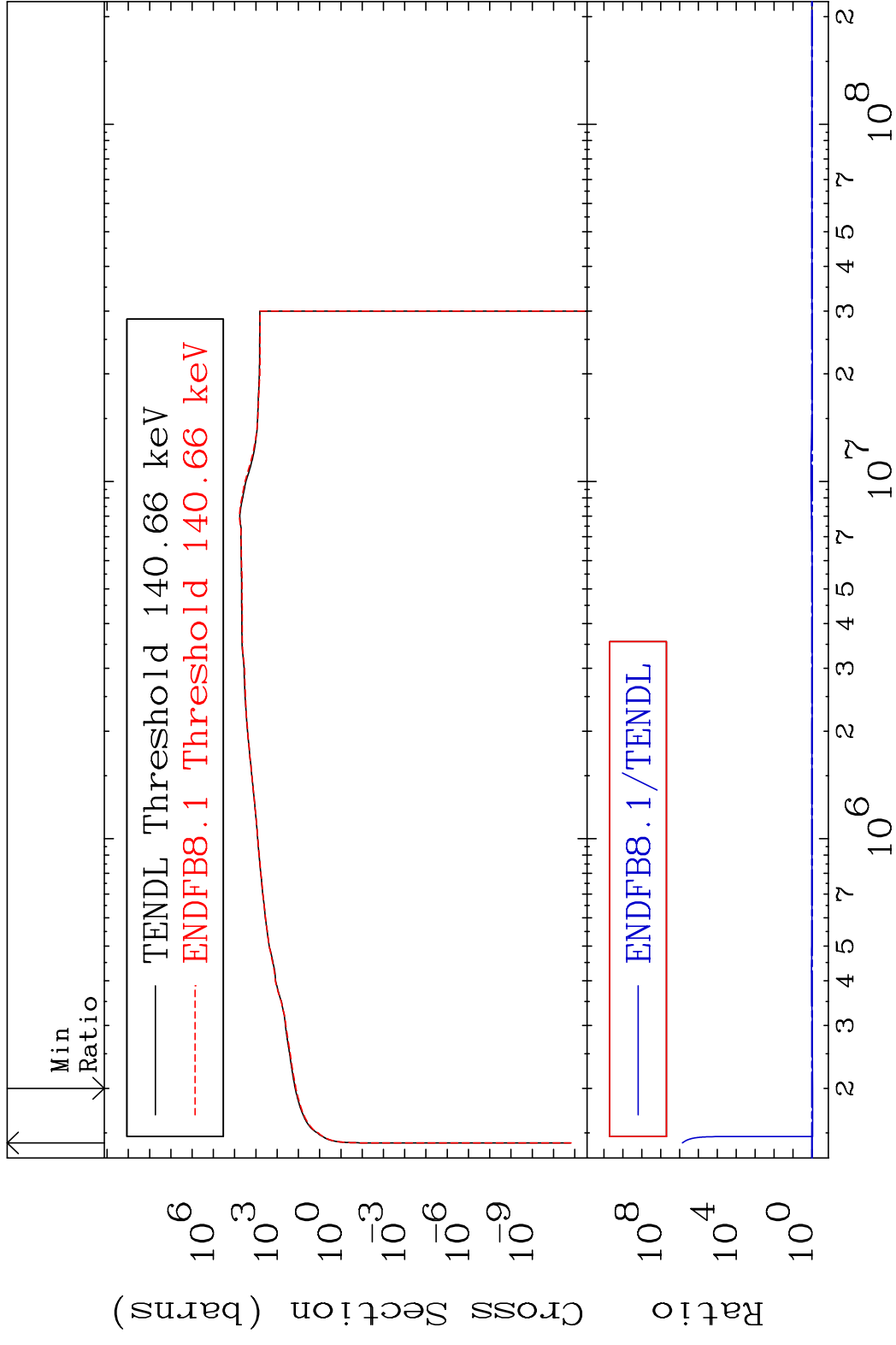
Dpa elastic (mt2)

81-Tl-204

Cross Section -98.95 To 1554. %



MAT 8128 Dpa inelastic (mt51-91) 81-T1-204
 Cross Section -7.673 To 9999. %



MAT 8128 Dpa disappearance (mt102 -120) 81-T1-204
 Cross Section -99.96 To 9999. %

