

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

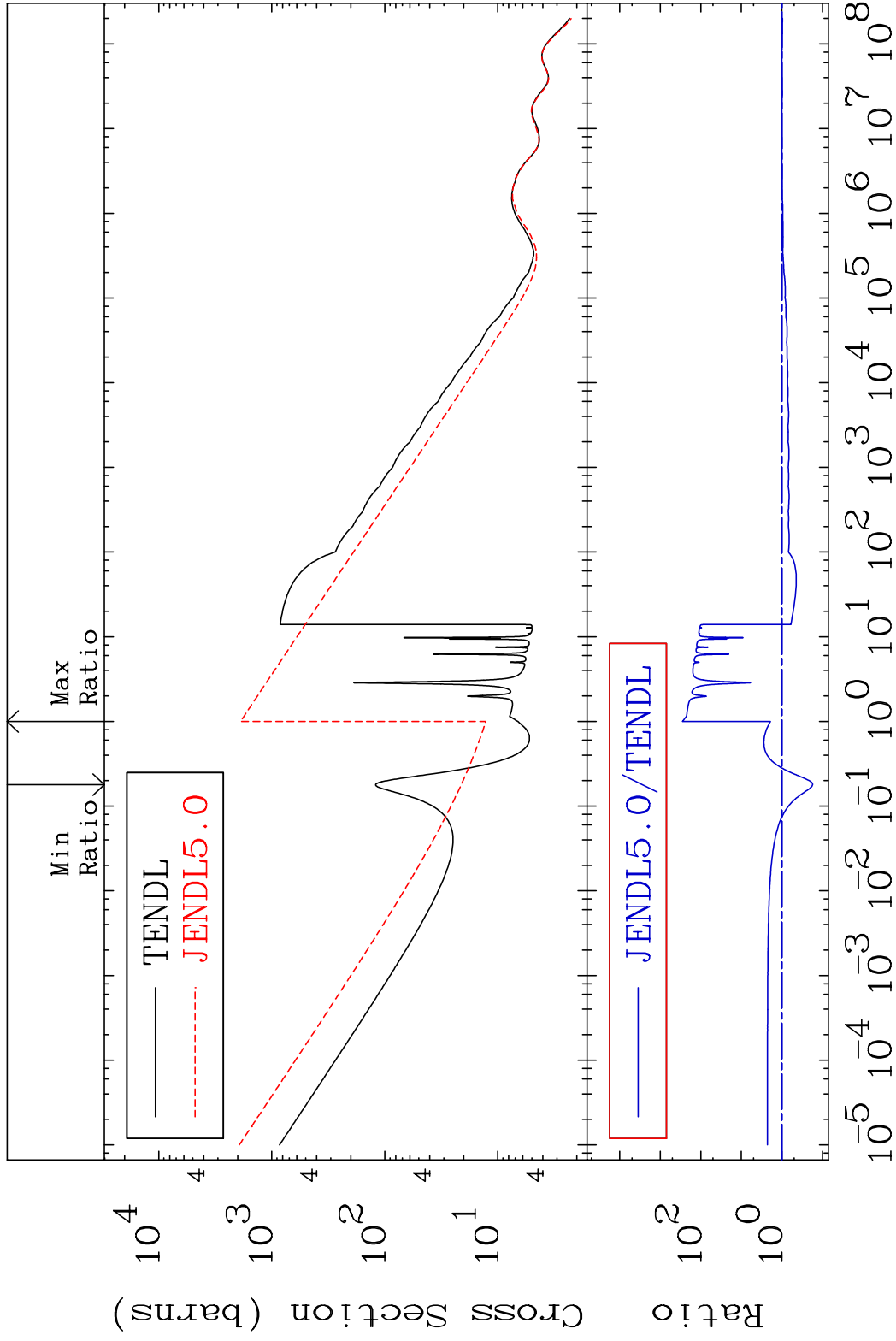
Press Mouse Button to Start

MAT 6310

Total

63-Eu-146

Cross Section -82.50 To 9999. %



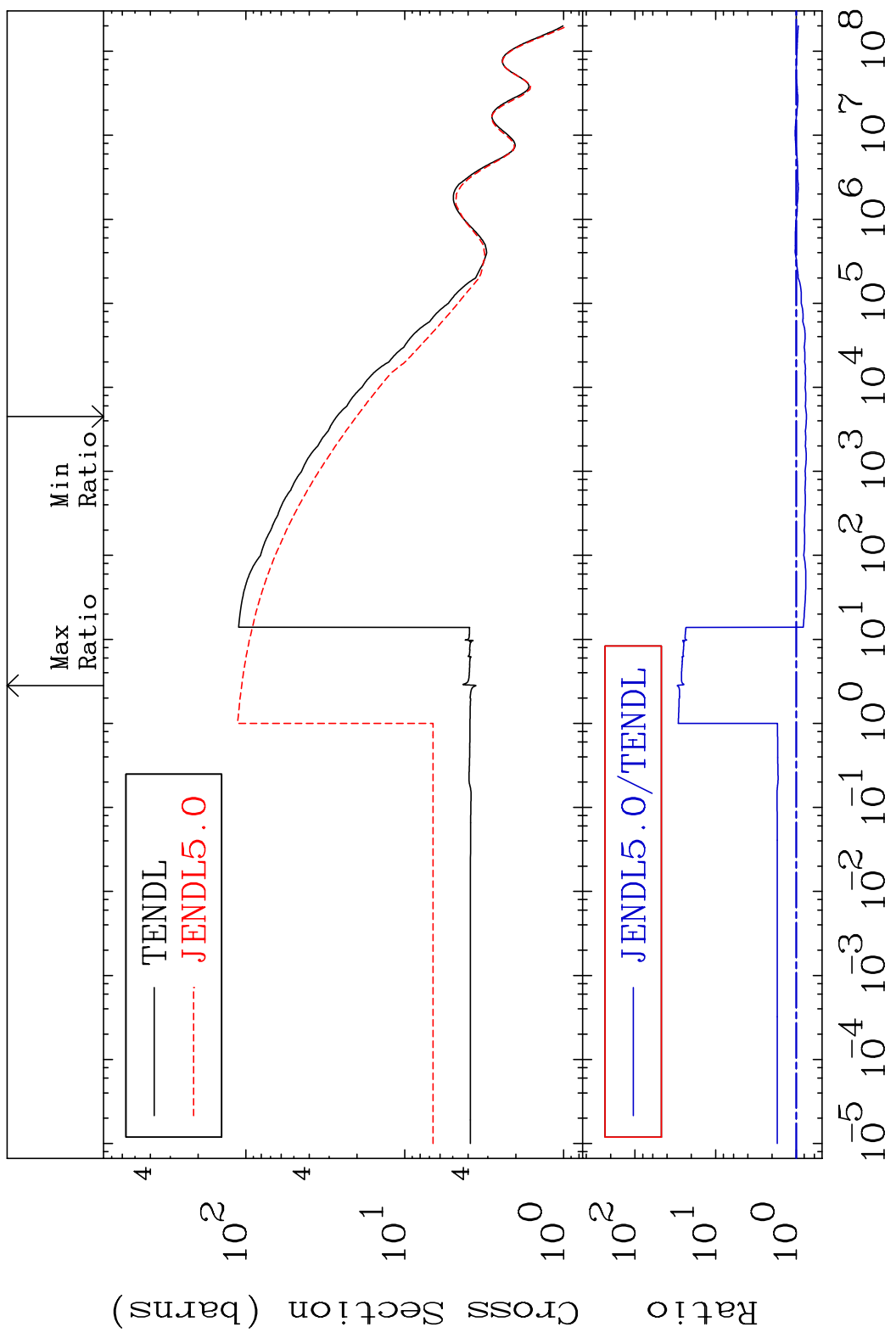
1

Incident Energy (eV)

63-Eu-146

MAT 6310

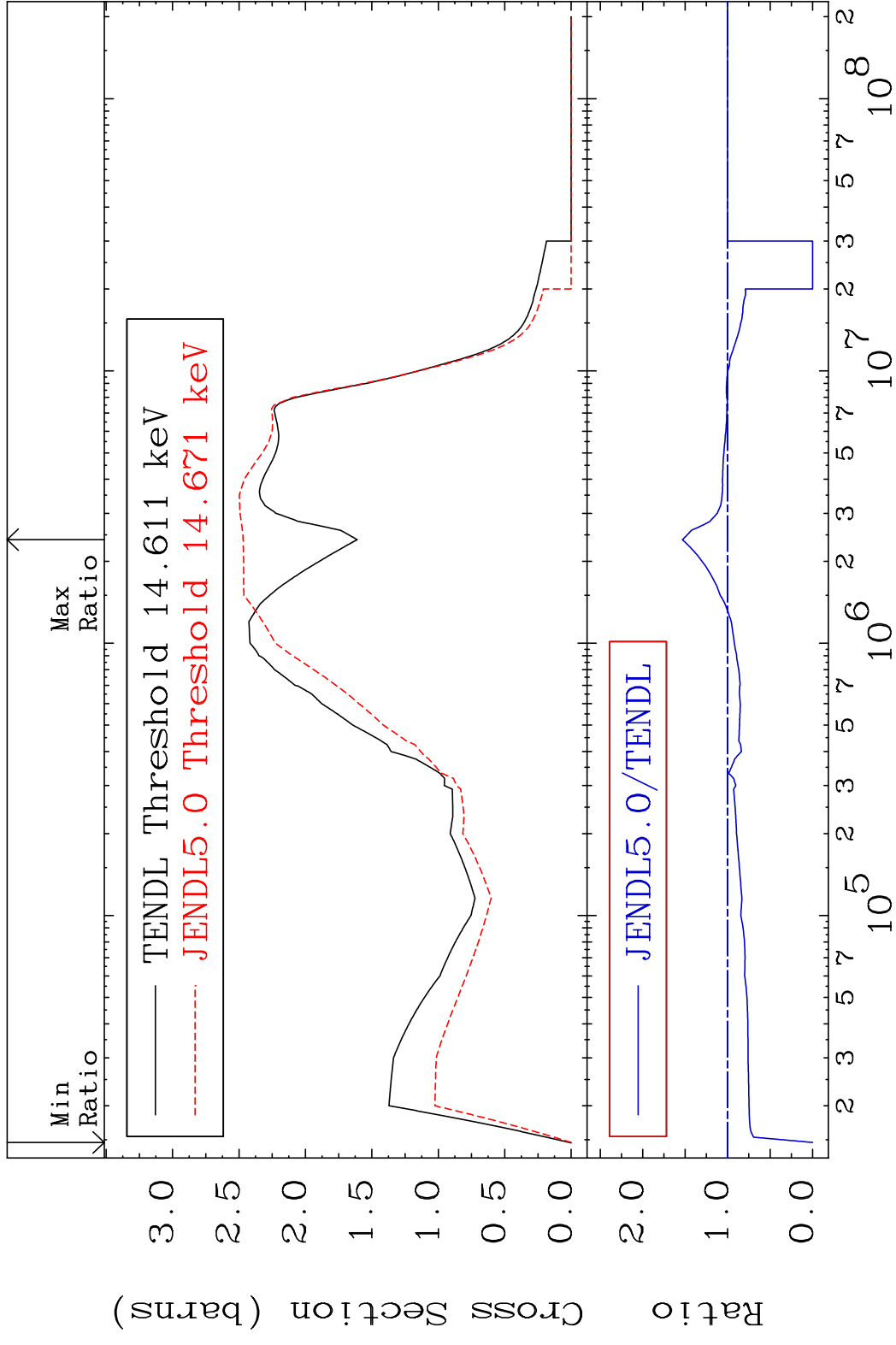
Elastic Cross Section -24.91 To 2894. %
63-Eu-146



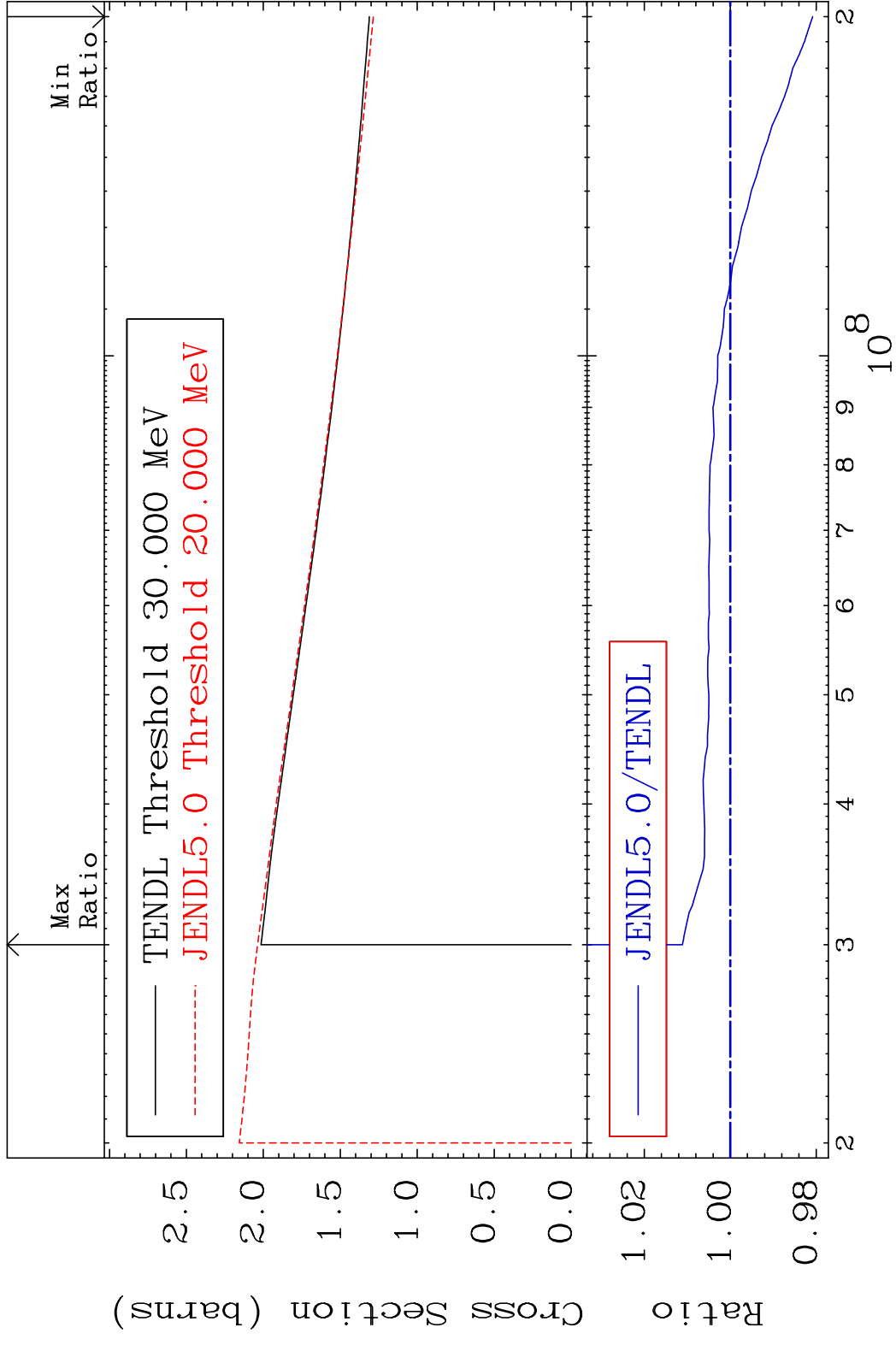
2

Incident Energy (eV) 63-Eu-146

MAT 6310 Inelastic 63-Eu-146
 Cross Section -100.0 To 53.31 %

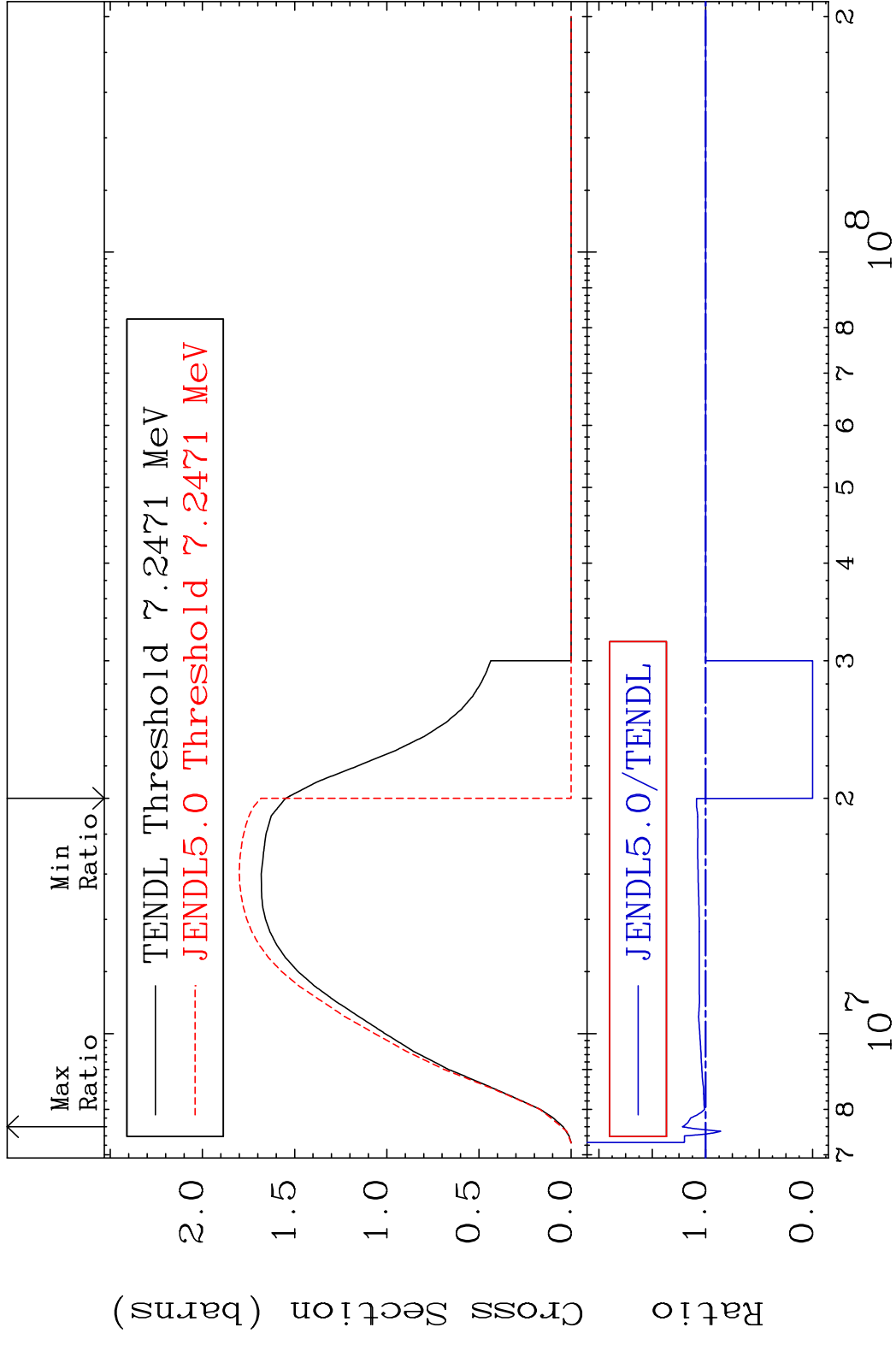


MAT 6310 (n, remainder) 63-Eu-146
 Cross Section -1.915 To 1.115 %



4 Incident Energy (eV) 63-Eu-146

MAT 6310 (n,2n) 63-Eu-146
 Cross Section -100.0 To 21.87 %



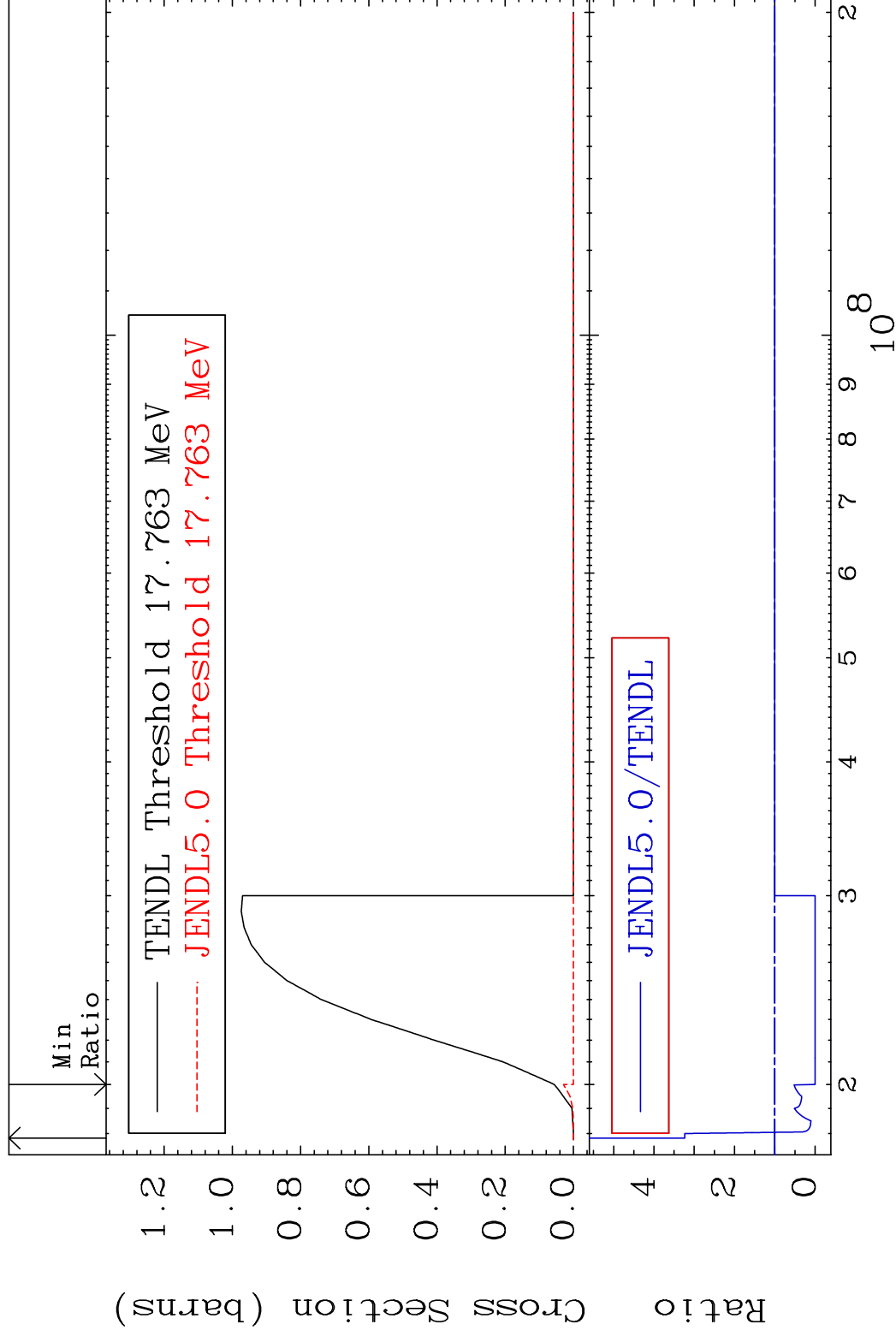
5 Incident Energy (eV) 63-Eu-146

MAT 6310

(n,3n)

63-Eu-146

Cross Section -100.0 To 223.6 %



6

Incident Energy (eV)

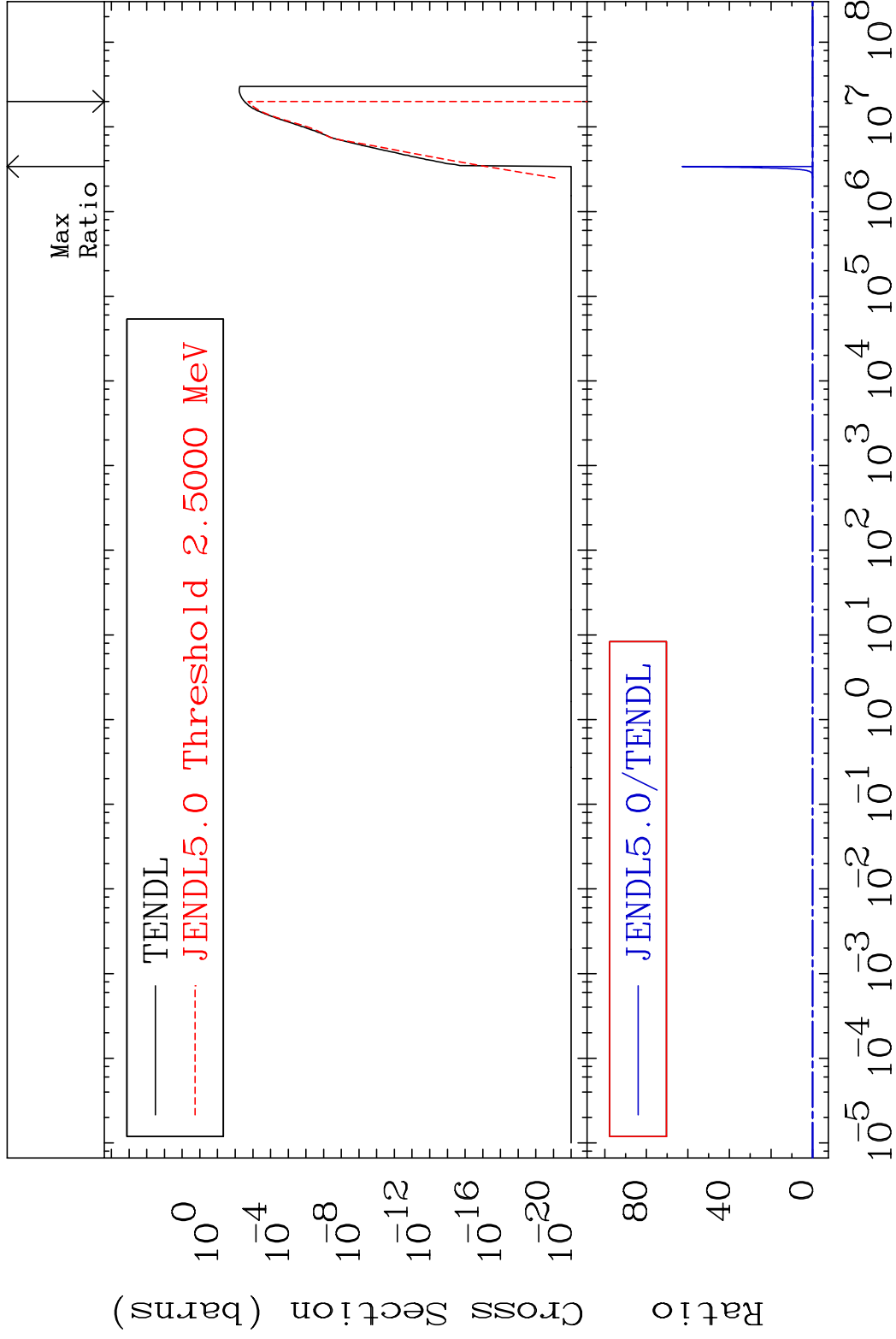
63-Eu-146

MAT 6310

(n, n') α

63-Eu-146

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

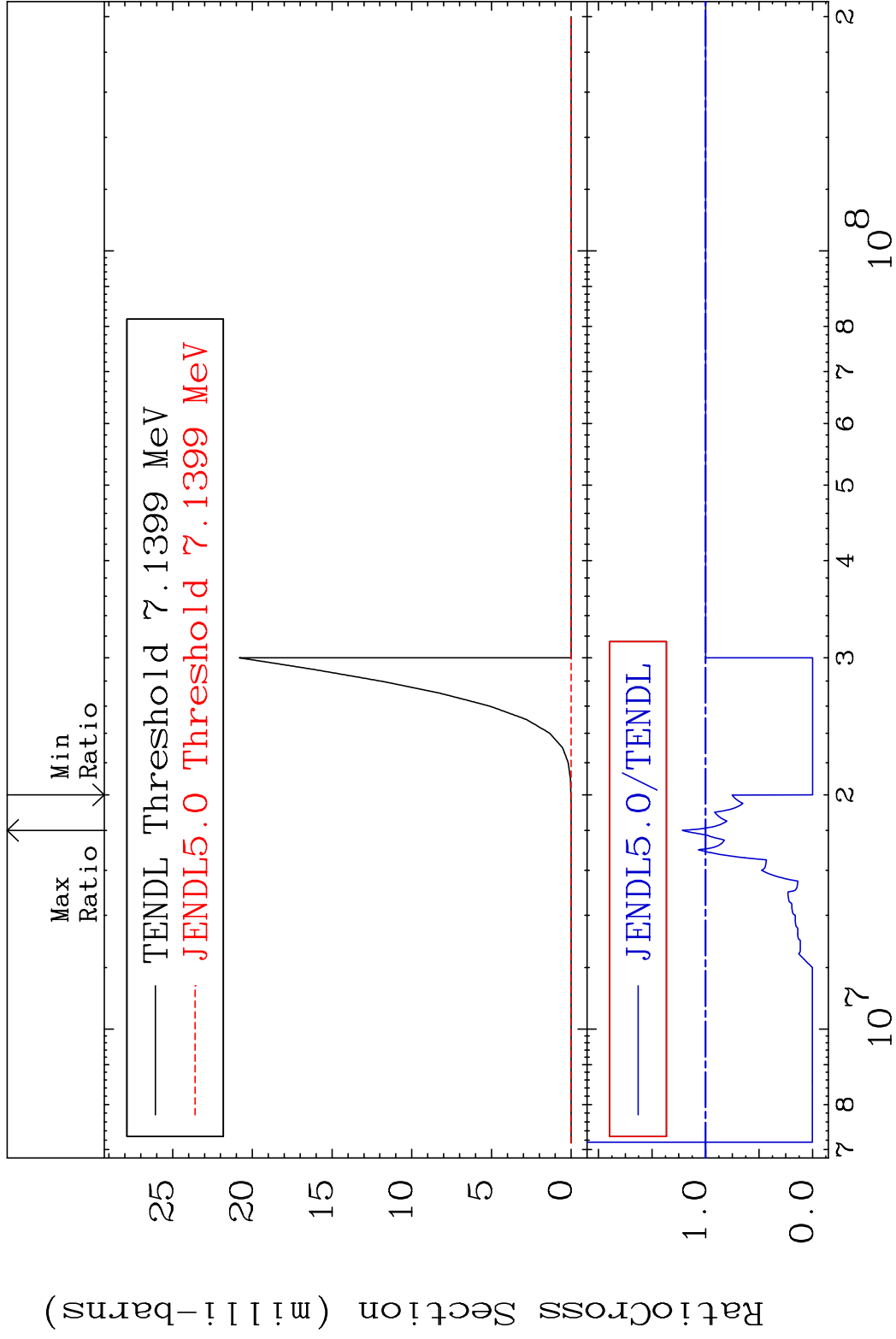
63-Eu-146

MAT 6310

(n,2n) α

63-Eu-146

Cross Section -100.0 To 21.67 %

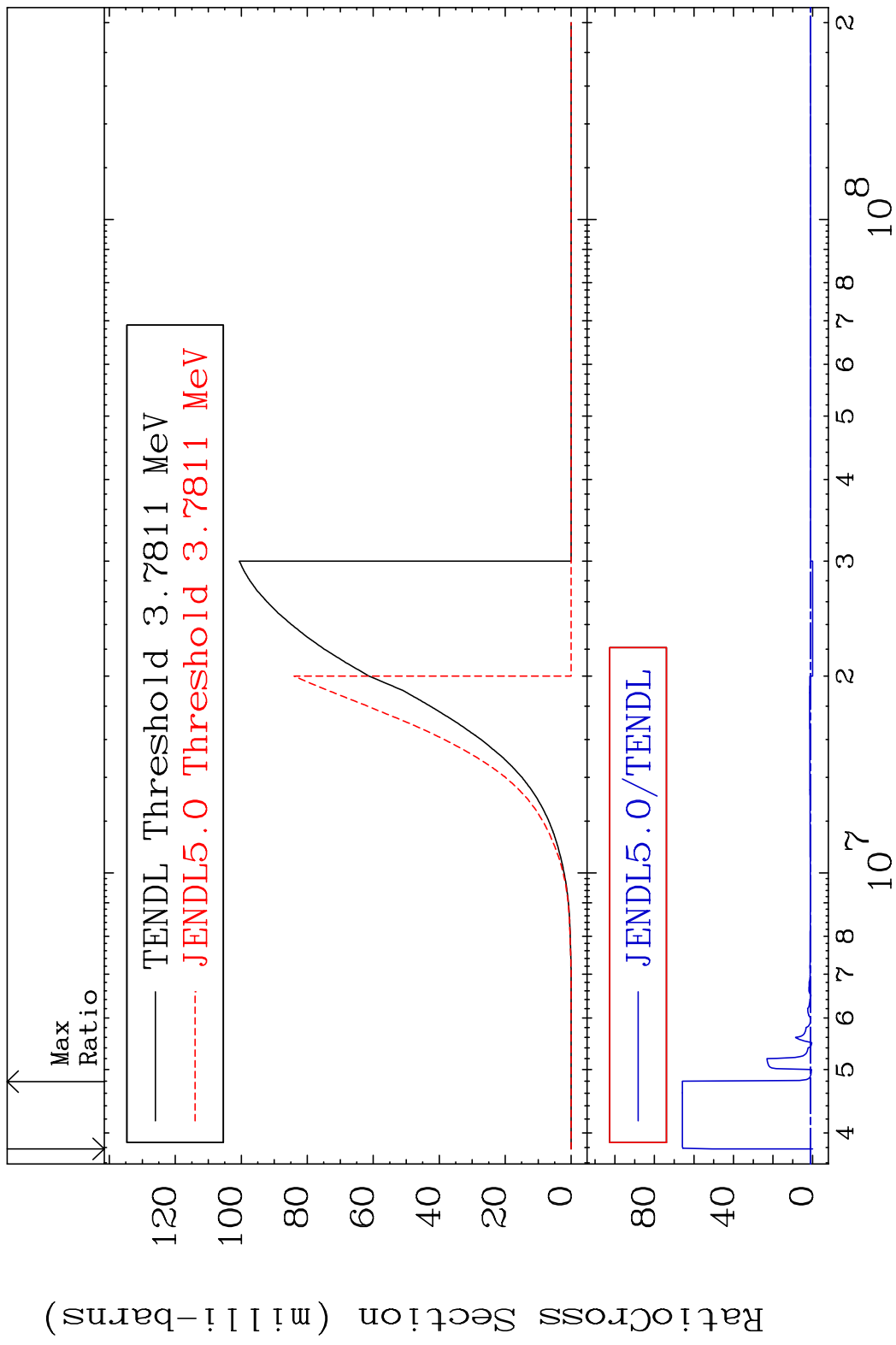


8

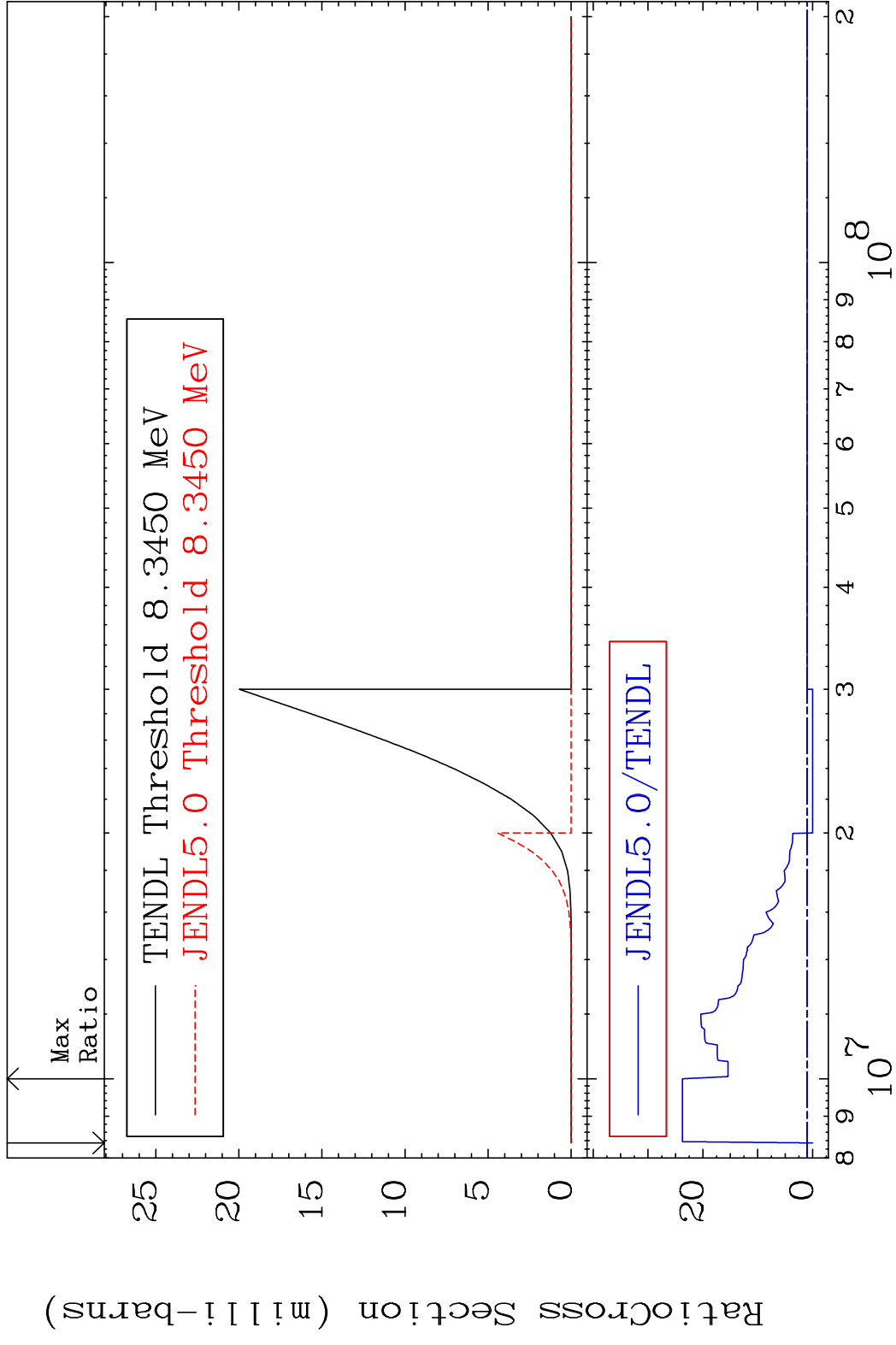
Incident Energy (eV)

63-Eu-146

MAT 6310 (n, n') p 63-Eu-146
 Cross Section -100.0 To 6487. %

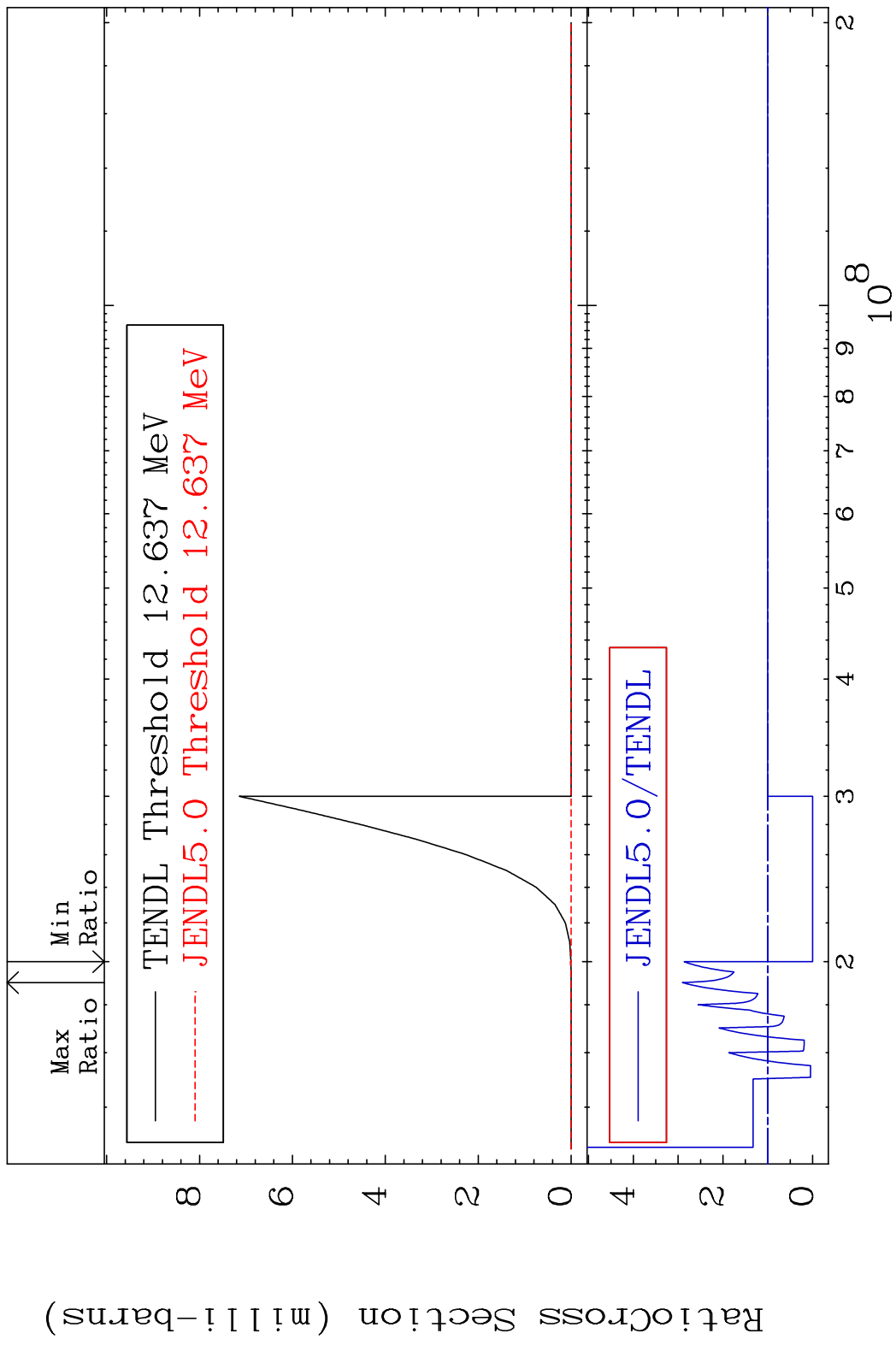


MAT 6310 (n, n') d 63-Eu-146
 Cross Section -100.0 To 2275. %

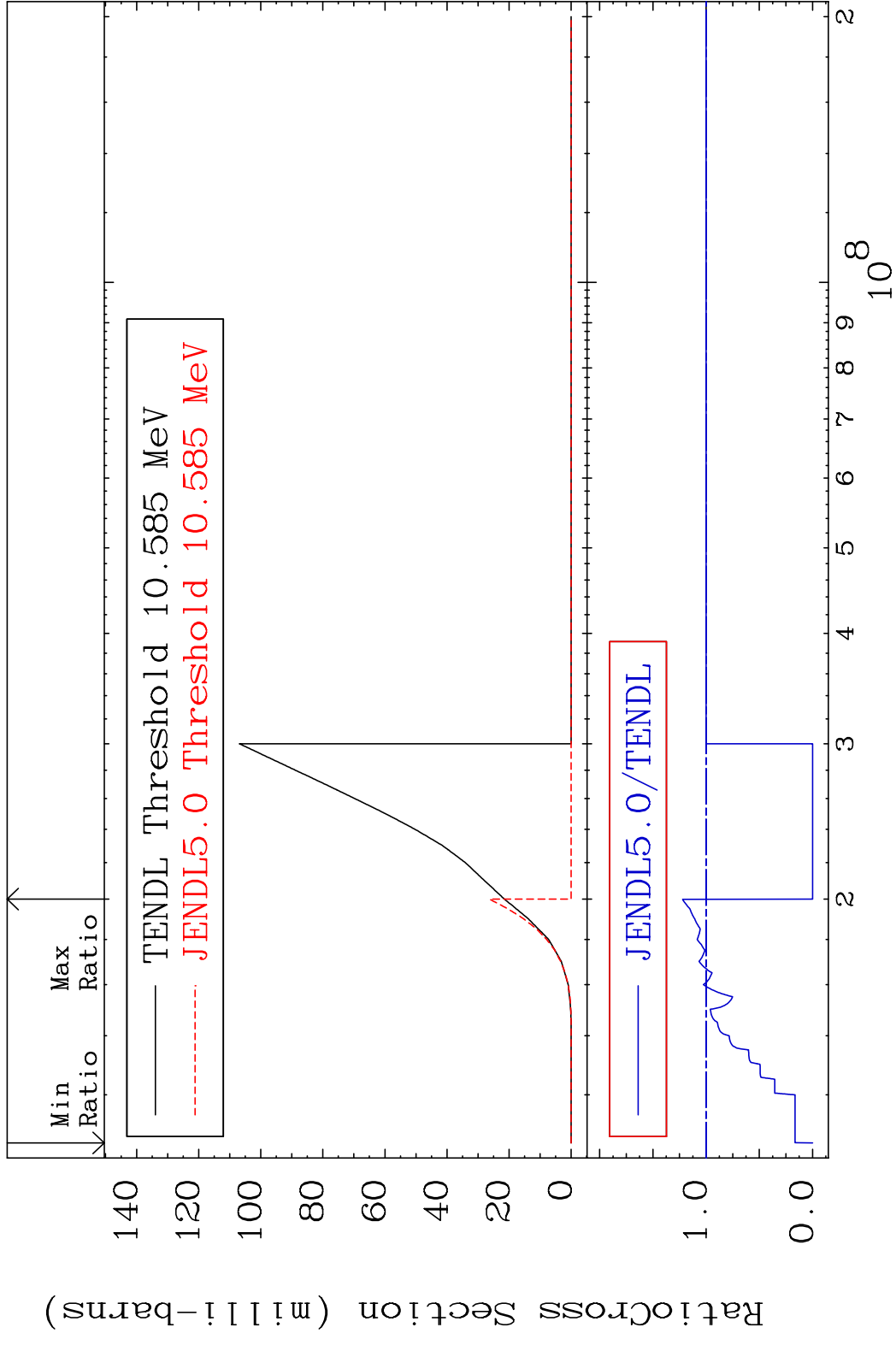


10 9 8 7 6 5 4 3 2 10⁷ 10⁸ 63-Eu-146

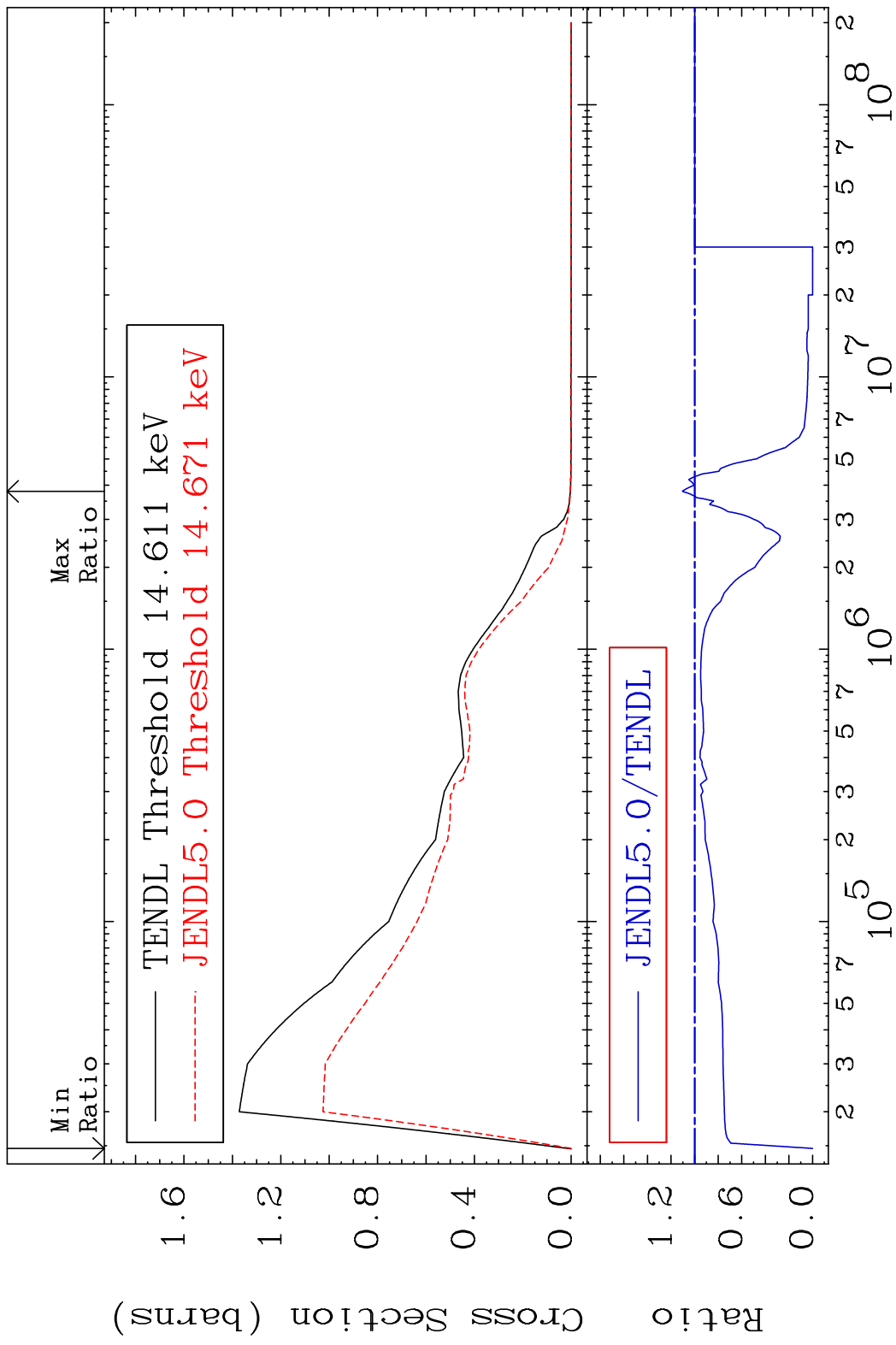
MAT 6310 (n, n') t 63-Eu-146
 Cross Section -100.0 To 190.6 %



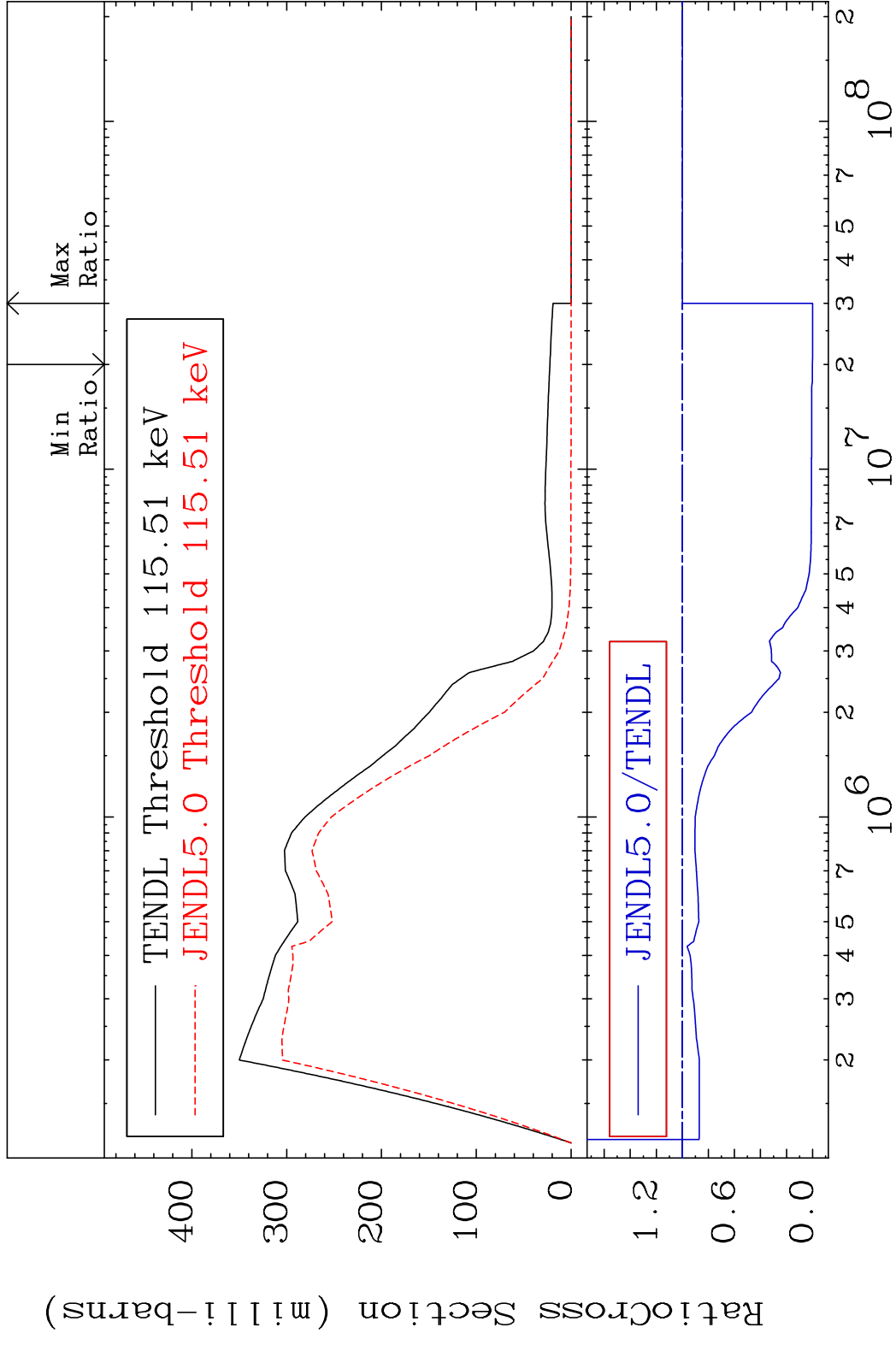
MAT 6310 (n,2n) p 63-Eu-146
 Cross Section -100.0 To 22.32 %



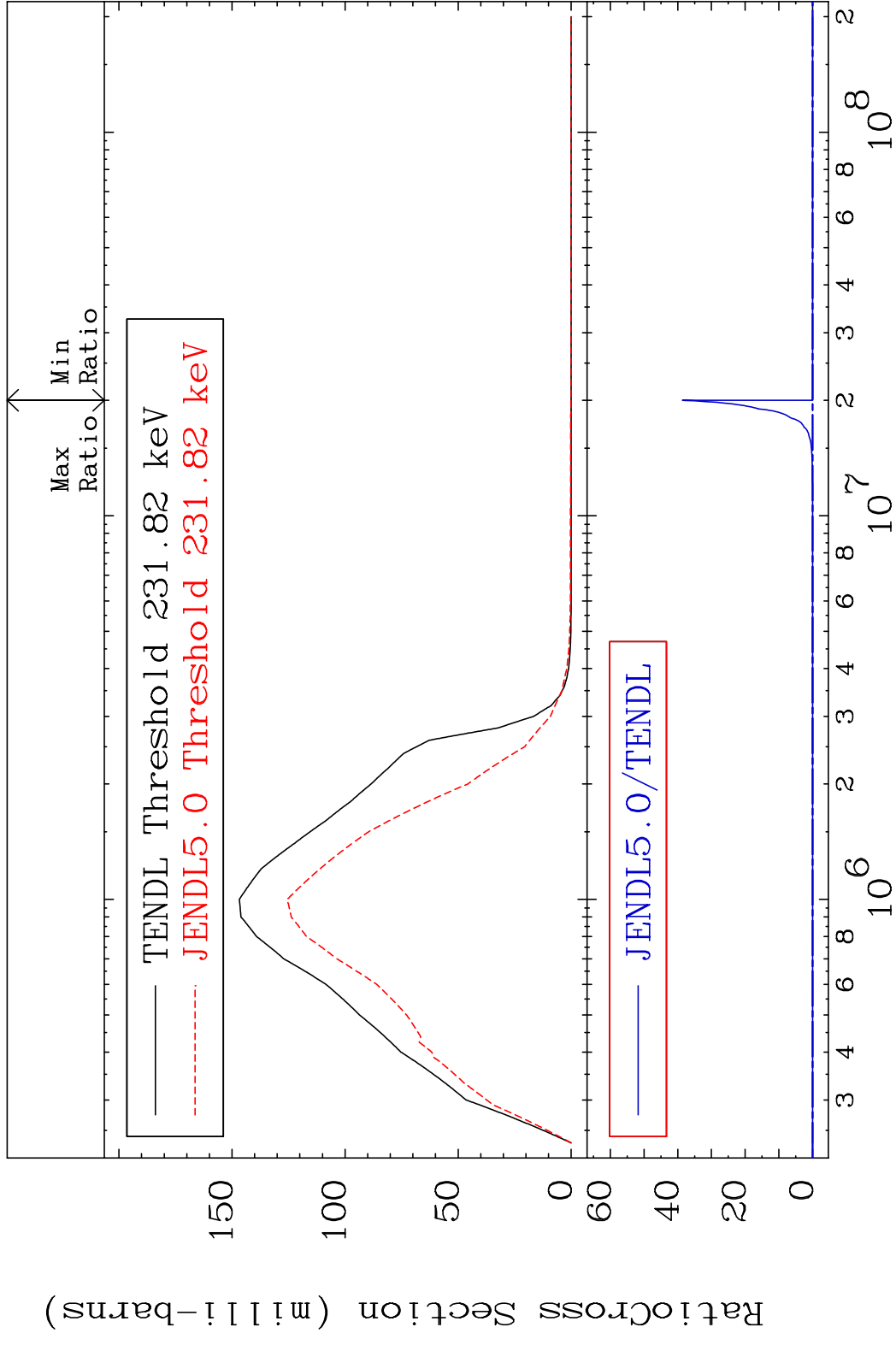
MAT 6310 MT= 51 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 10.40 %



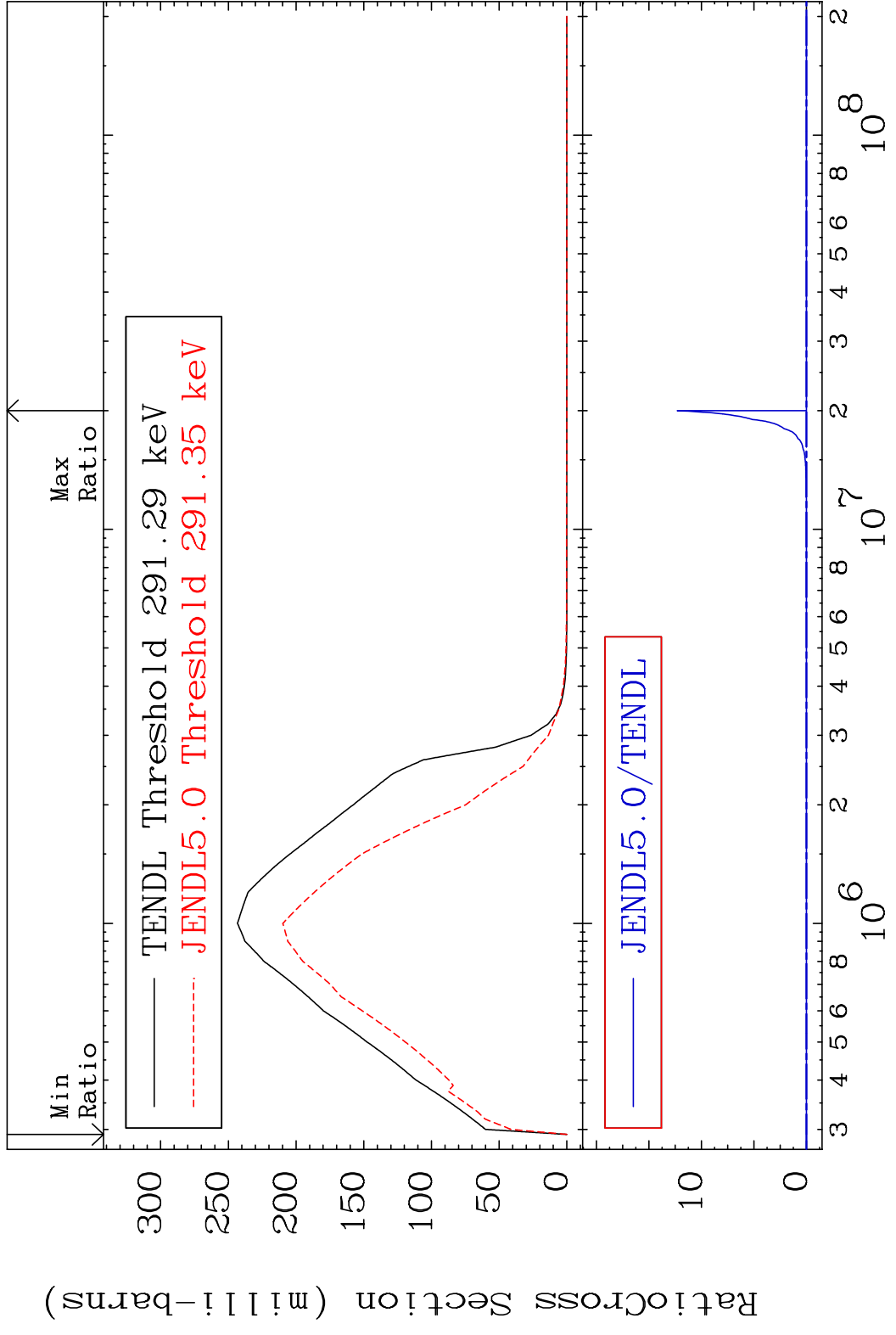
MAT 6310 MT= 52 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 0.000 %



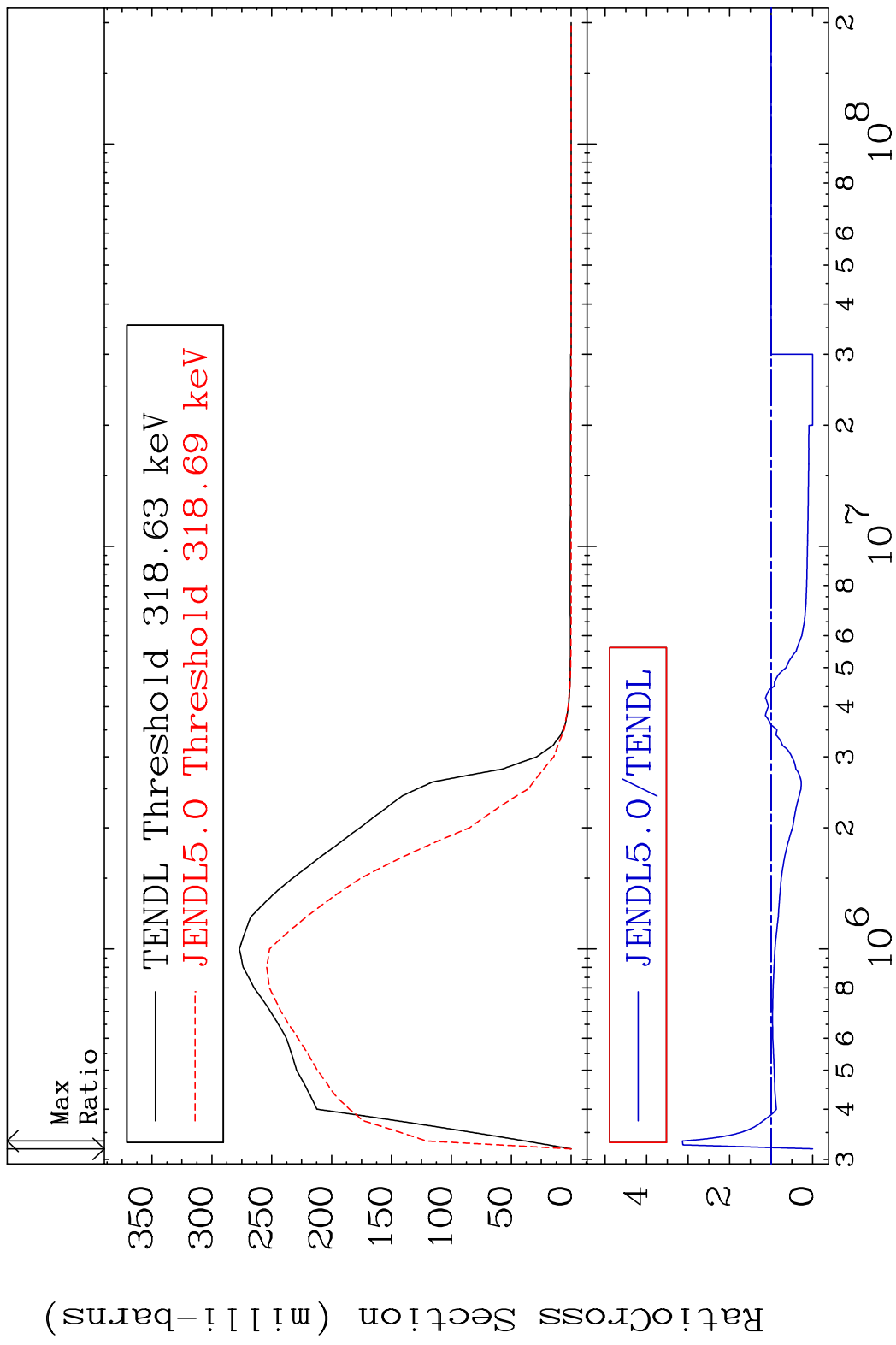
MAT 6310 MT= 53 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 9999. %



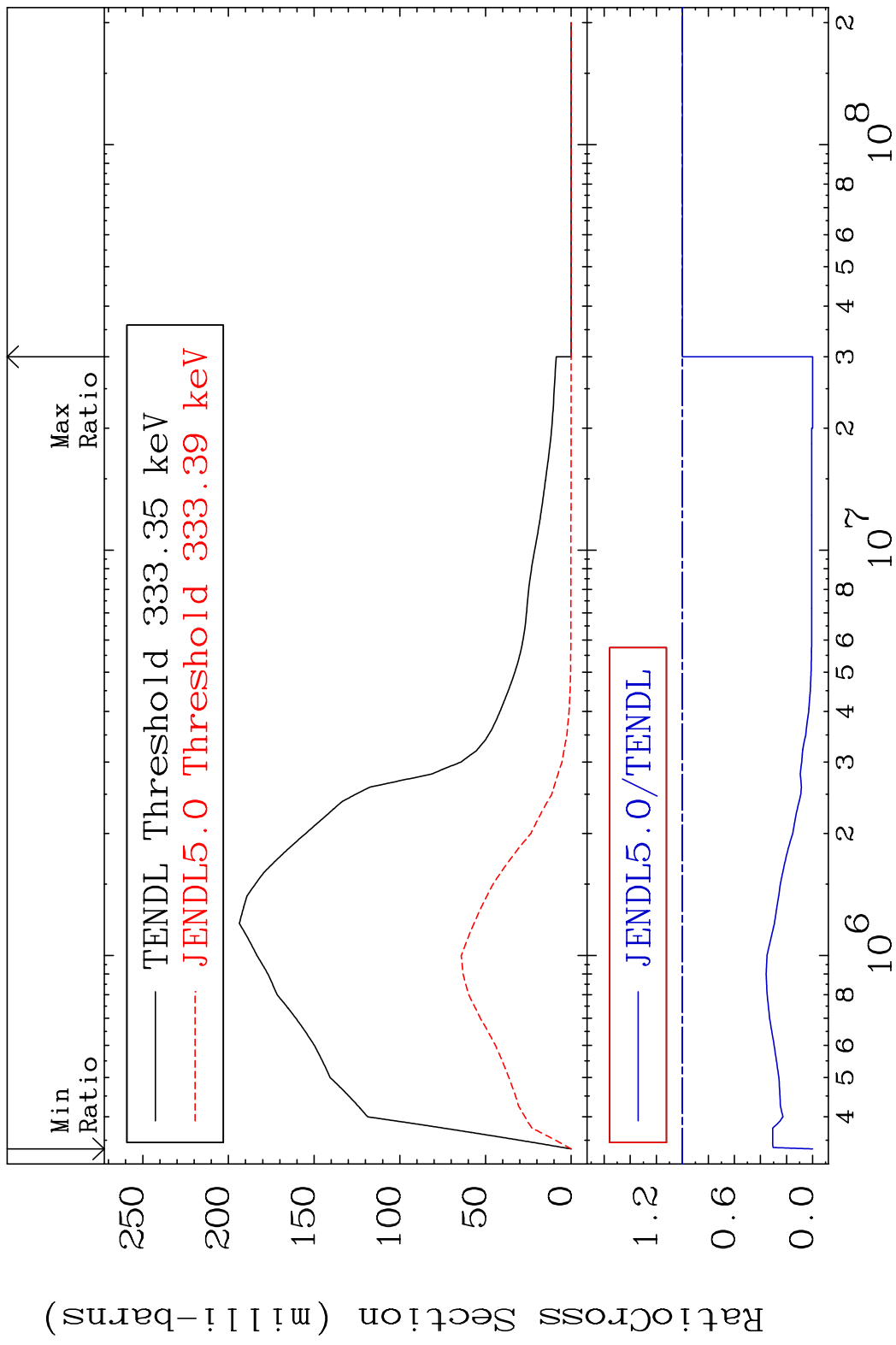
MAT 6310 MT= 54 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 9999. %



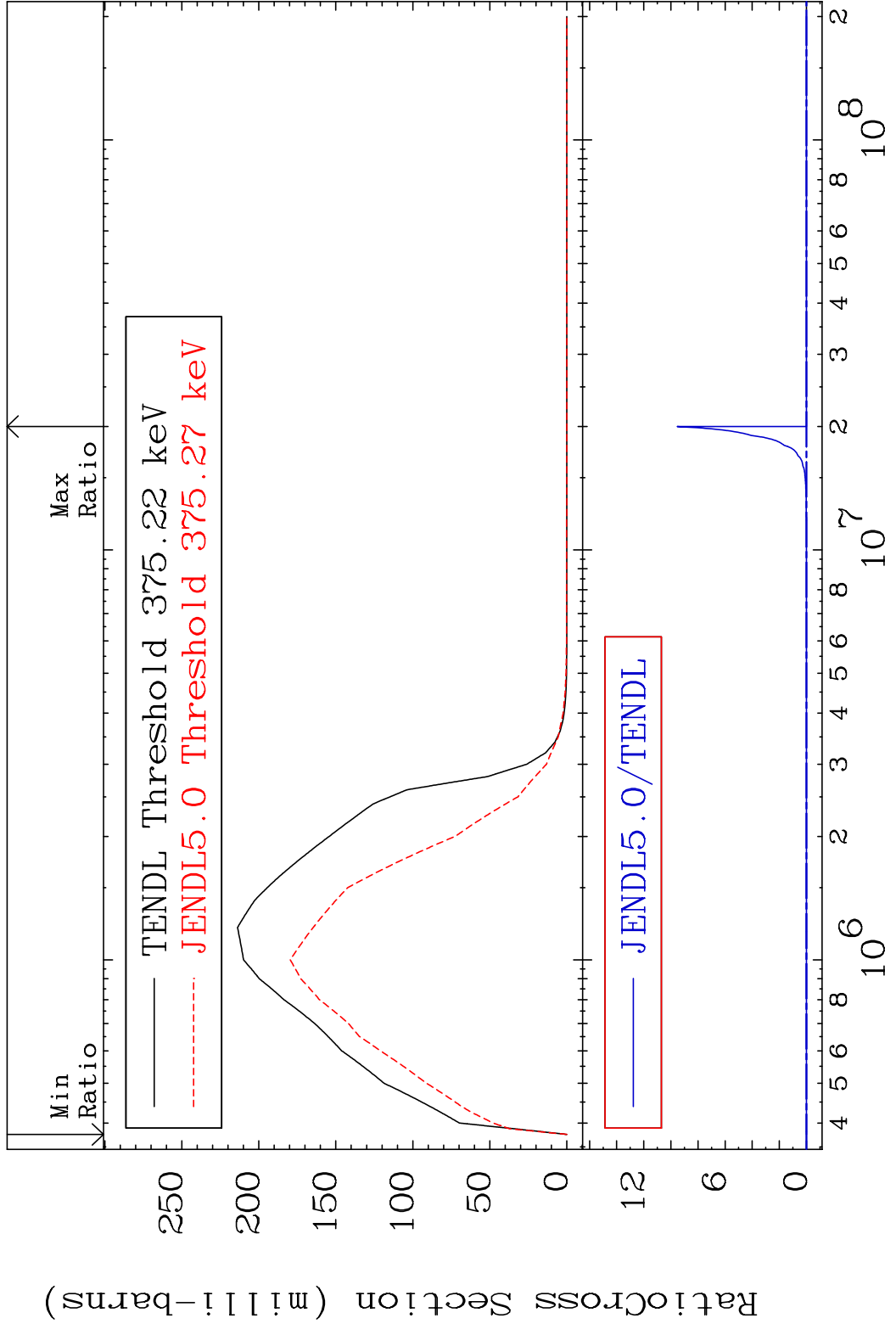
MAT 6310 MT= 55 (n,n') Level 63-Eu-146
 Cross Section -100.0 To 213.9 %



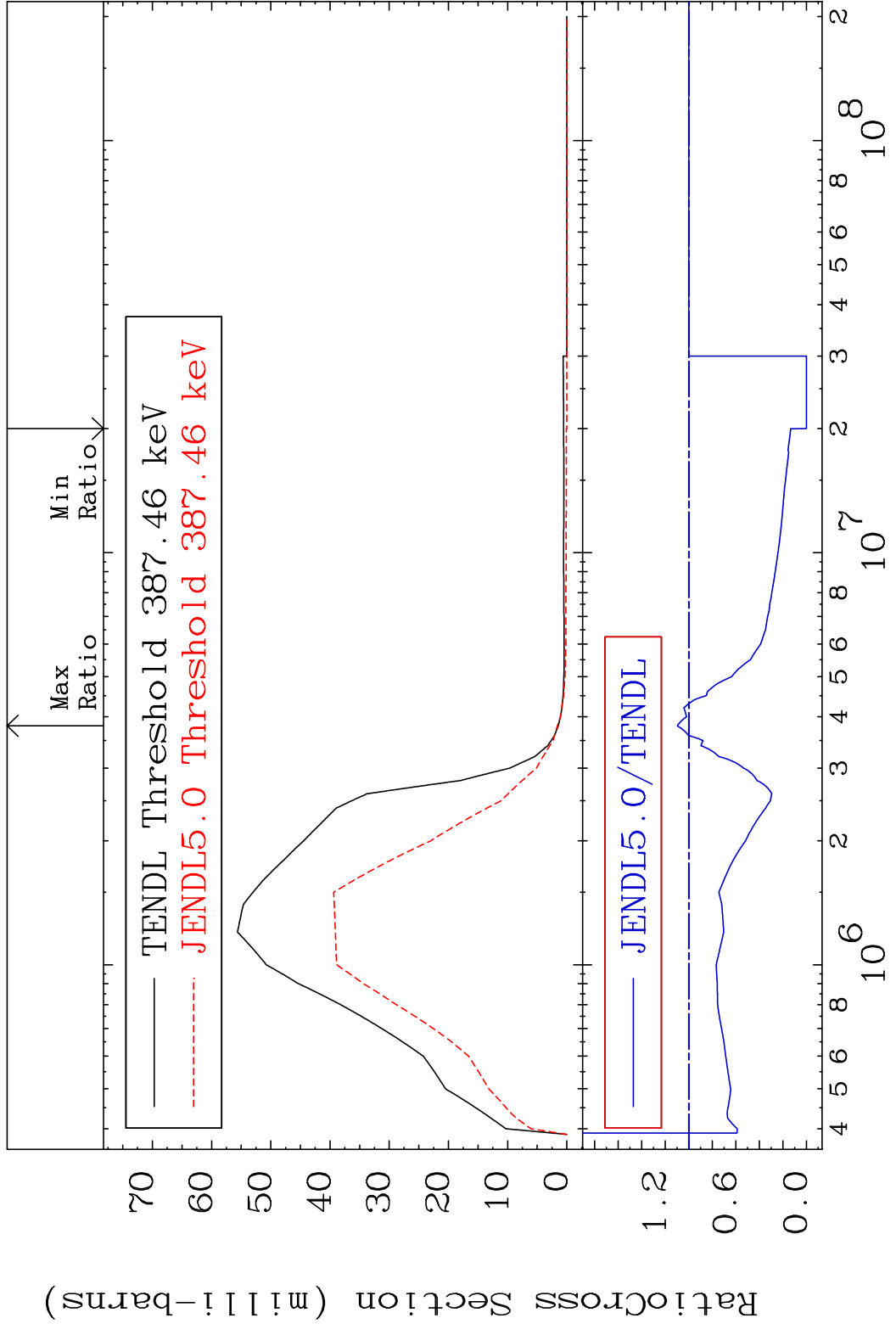
MAT 6310 MT= 56 (n,n') Level 63-Eu-146
 Cross Section -100.0 To 0.000 %



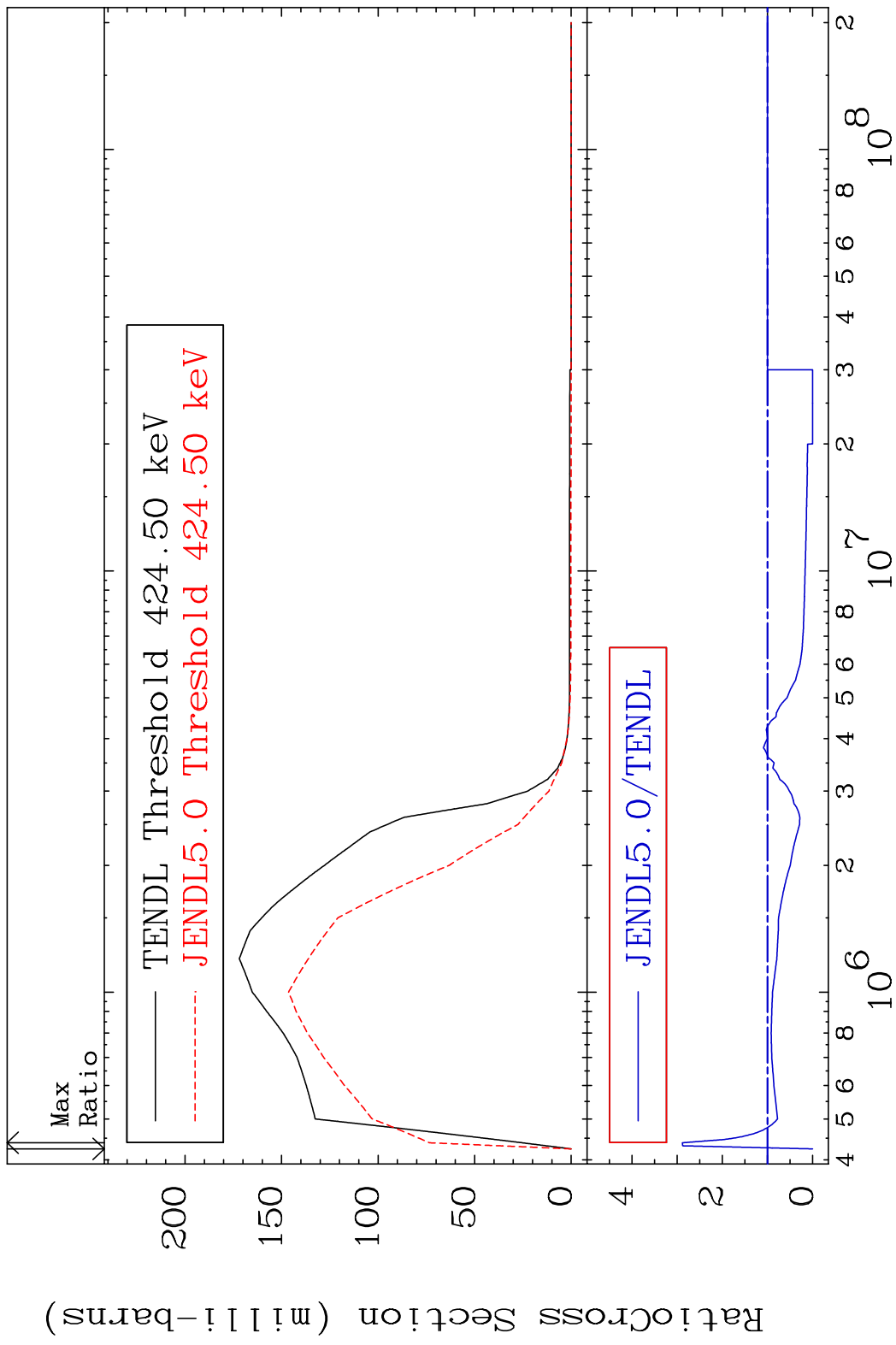
MAT 6310 MT= 57 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 9999. %



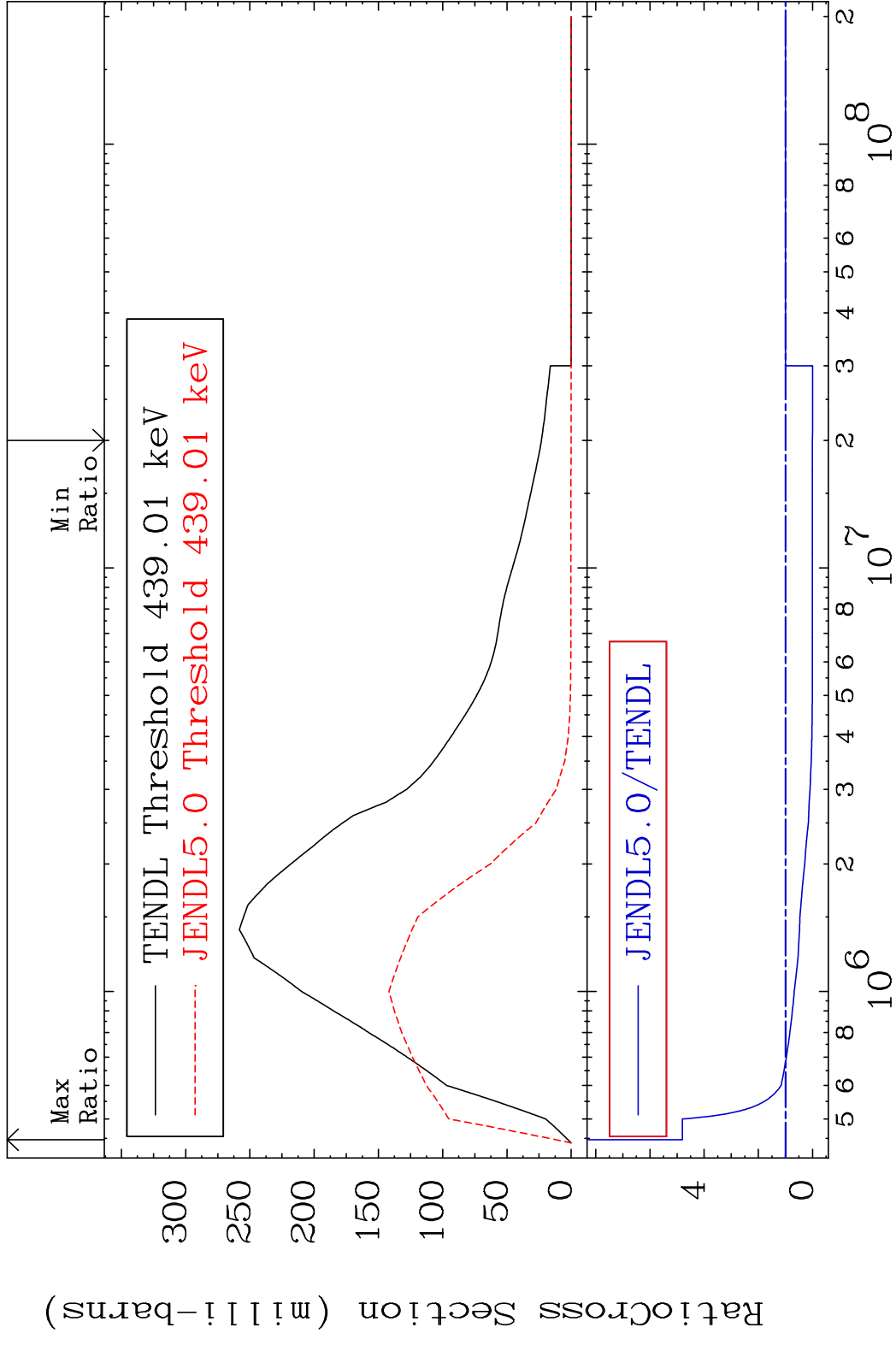
MAT 6310 MT= 58 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 9.779 %



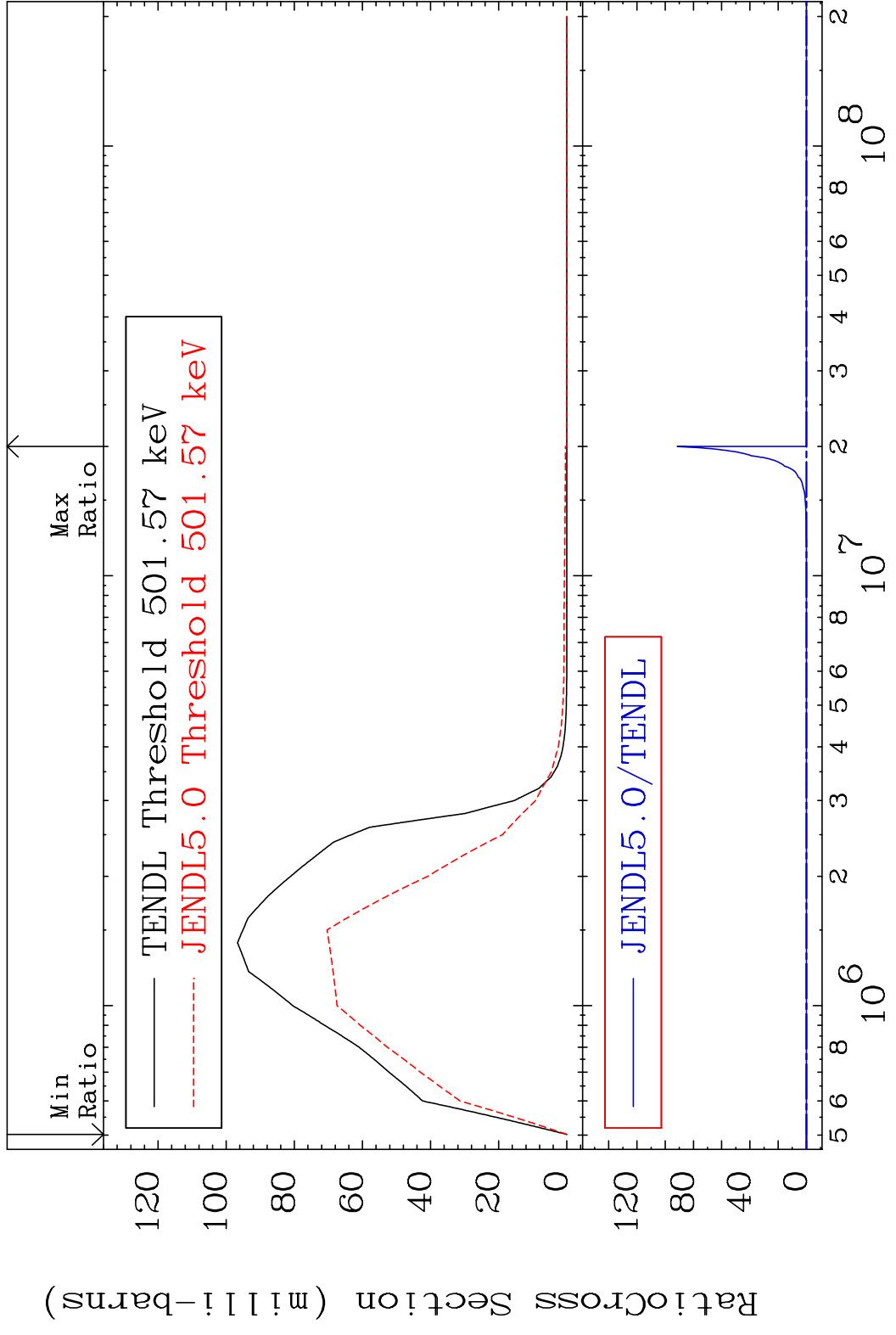
MAT 6310 MT= 59 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 188.4 %



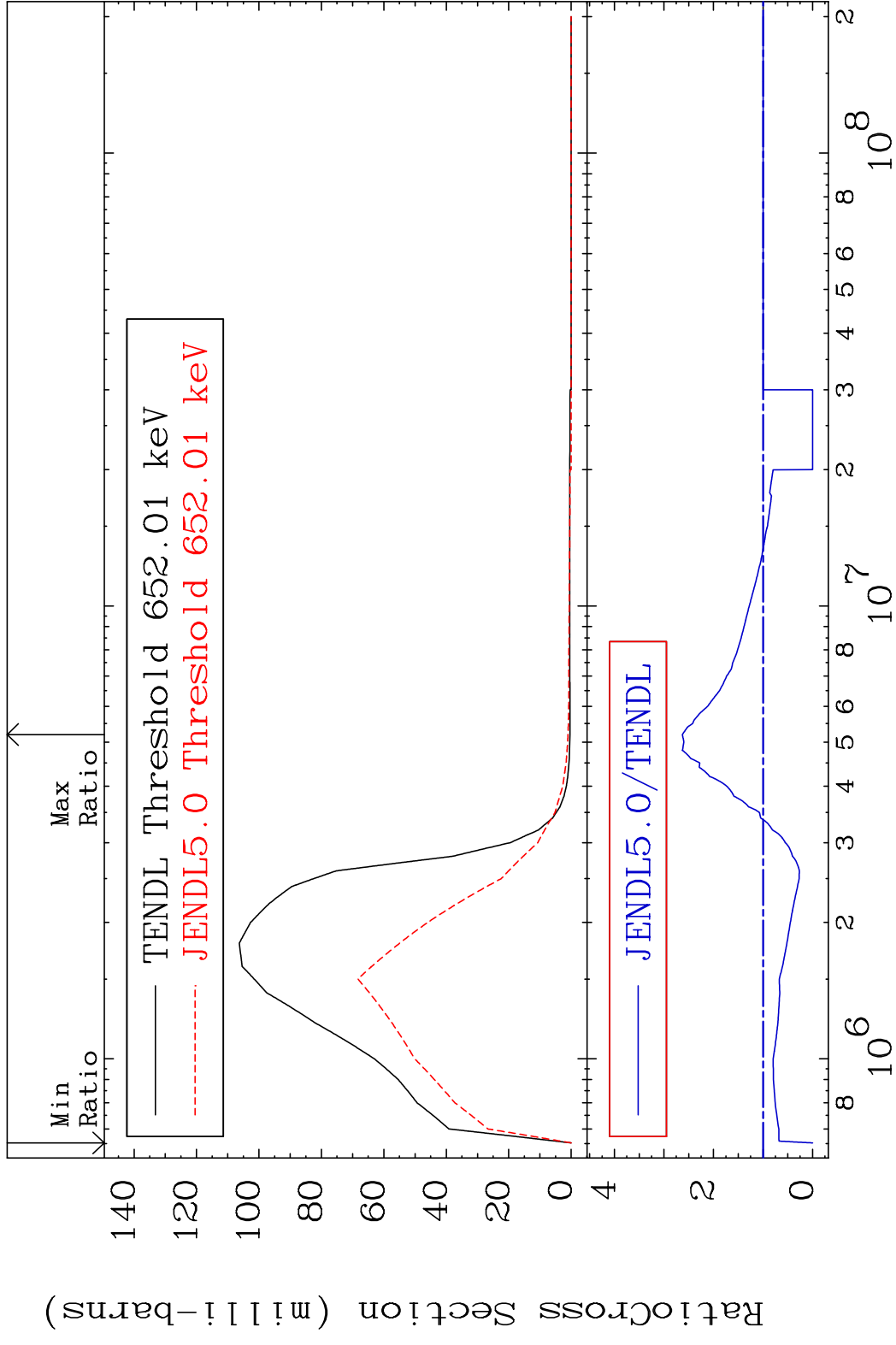
MAT 6310 MT= 60 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 380.5 %



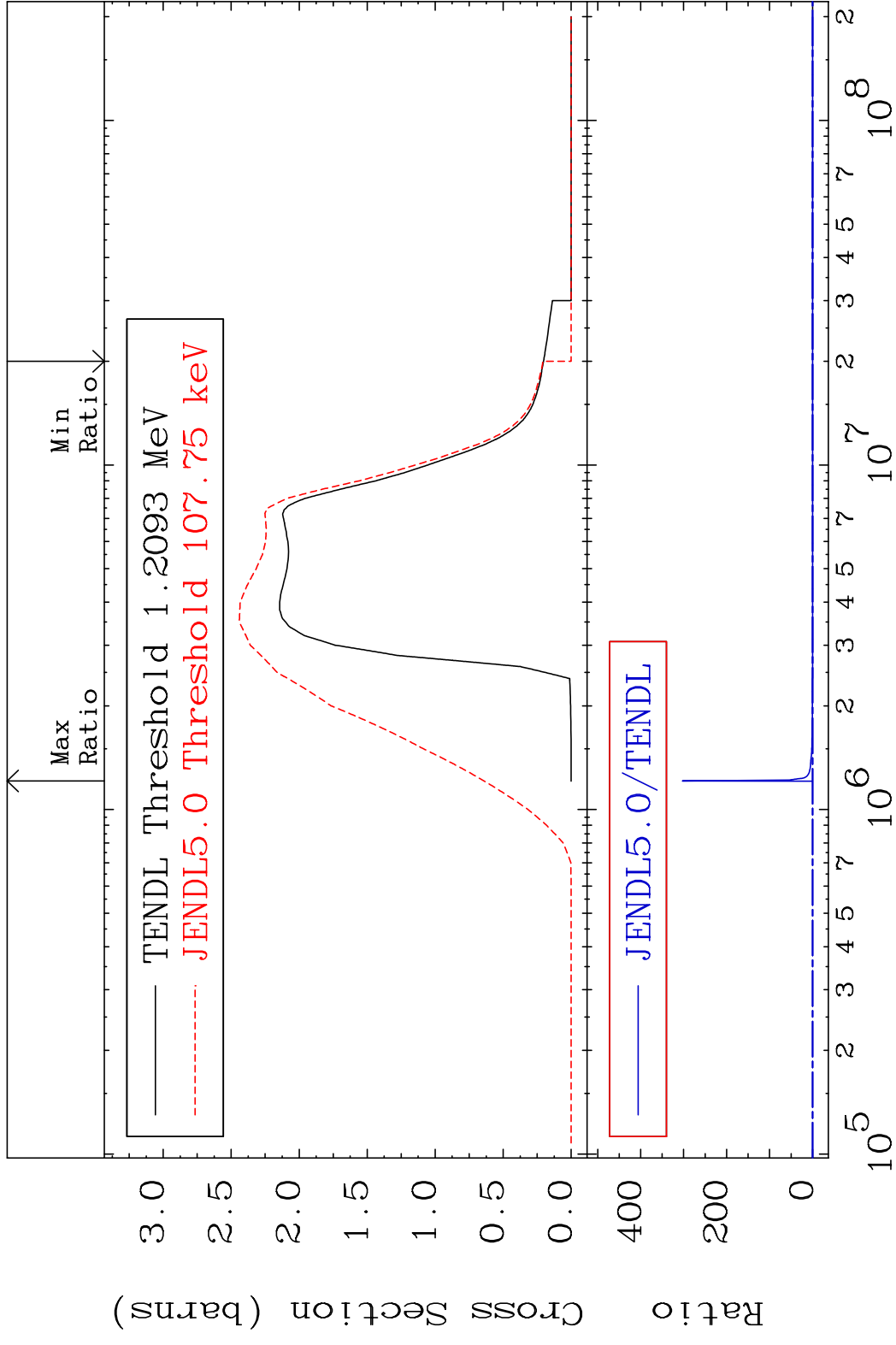
MAT 6310 MT= 61 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 9999. %



MAT 6310 MT= 62 (n, n') Level 63-Eu-146
 Cross Section -100.0 To 162.9 %



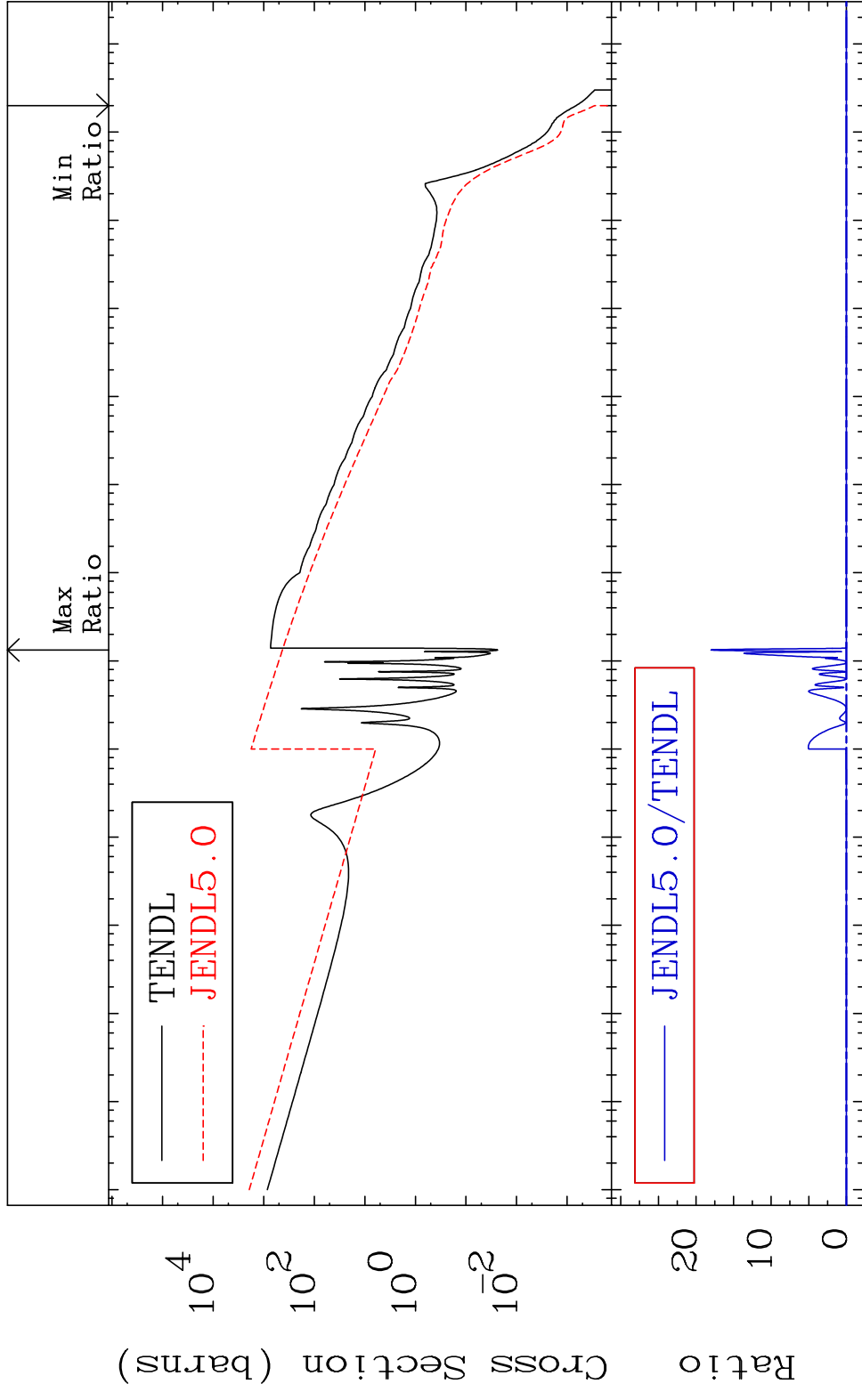
MAT 6310 (n,n') Continuum 63-Eu-146
 Cross Section -100.0 To 9999. %



MAT 6310

(n, γ)
Cross Section -100.0 To 9999. %

63-Eu-146



26

Incident Energy (eV)

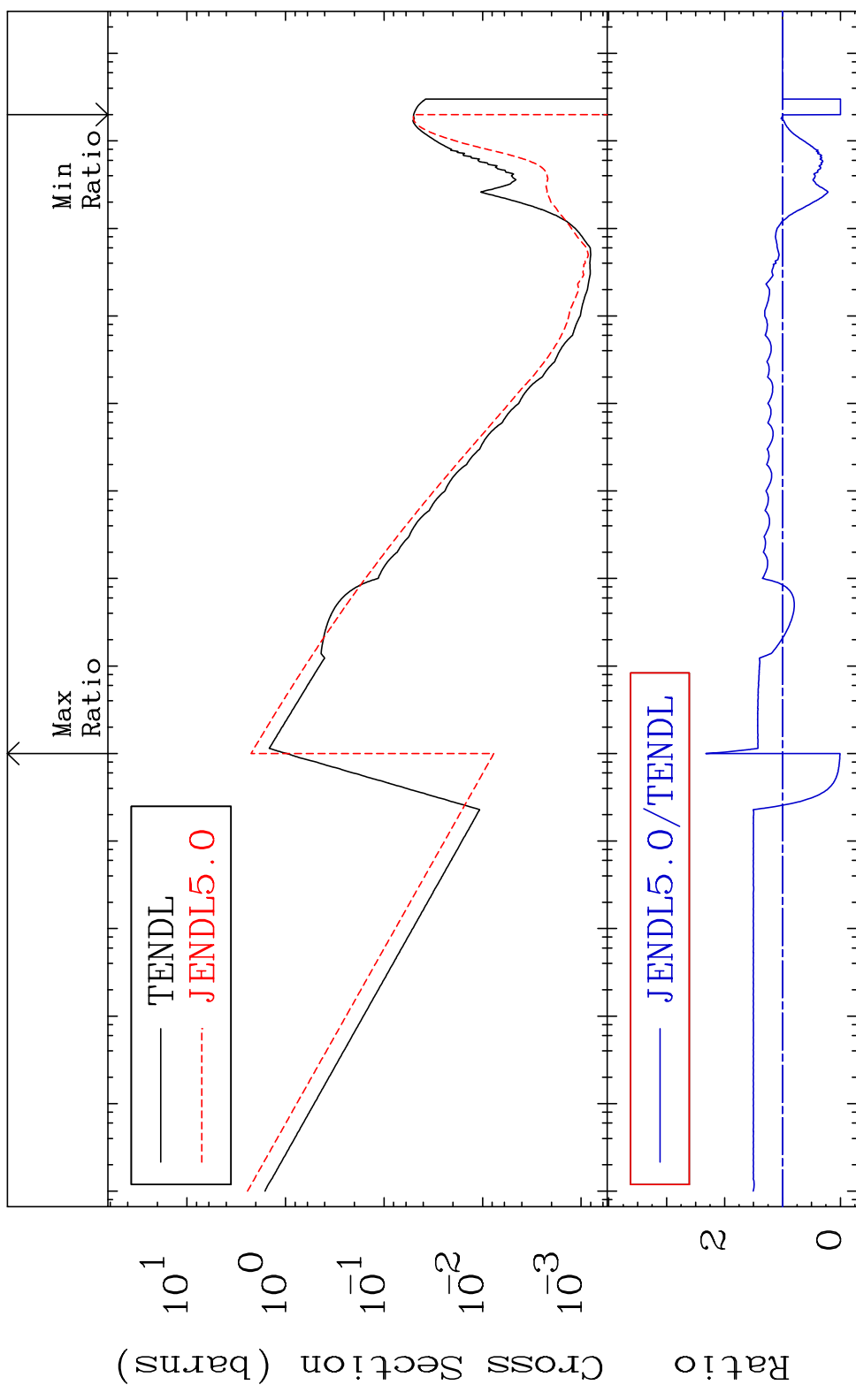
63-Eu-146

MAT 6310

(n, p)

63-Eu-146

Cross Section -100.0 To 132.4 %



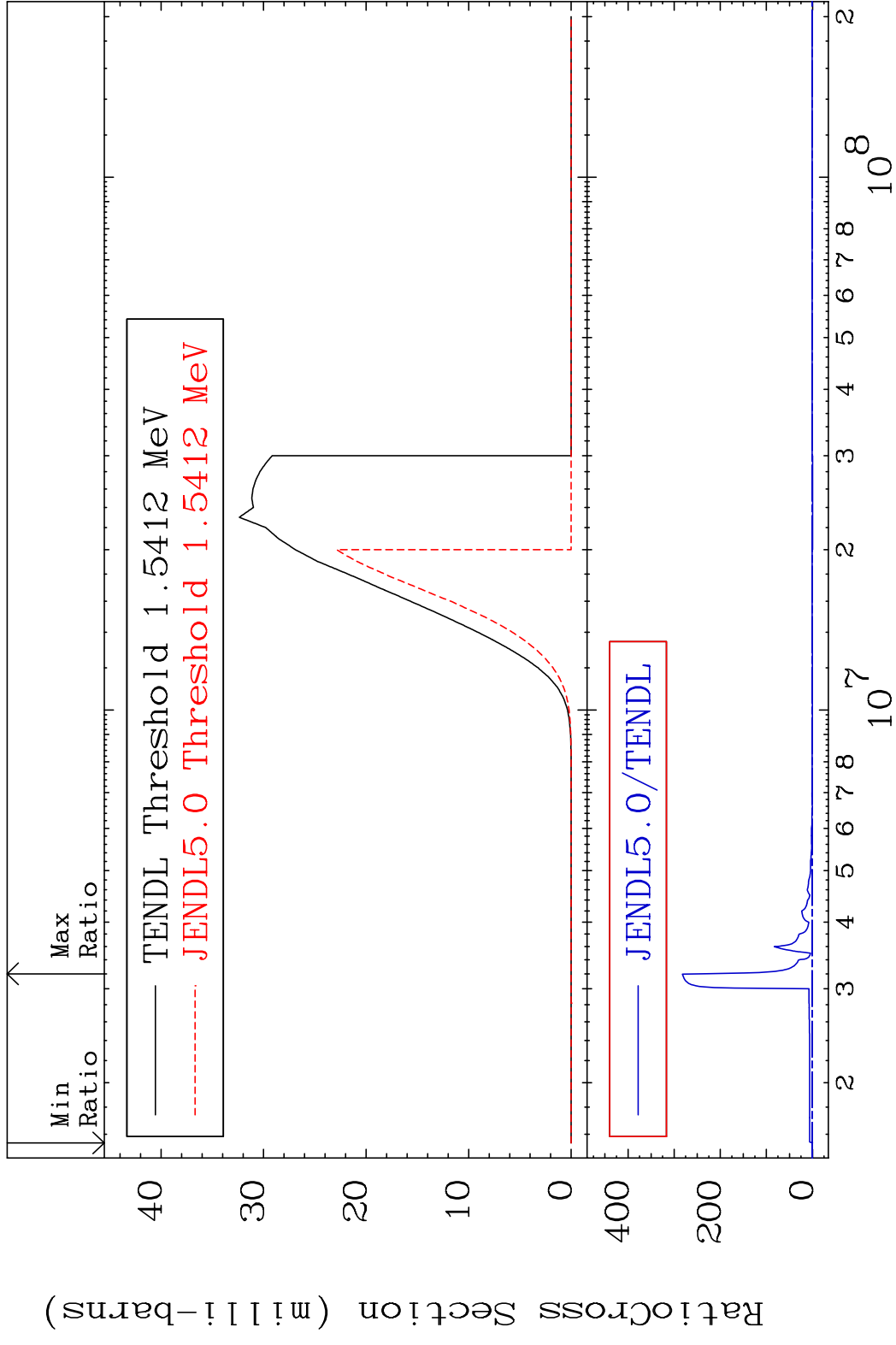
27

Incident Energy (eV)

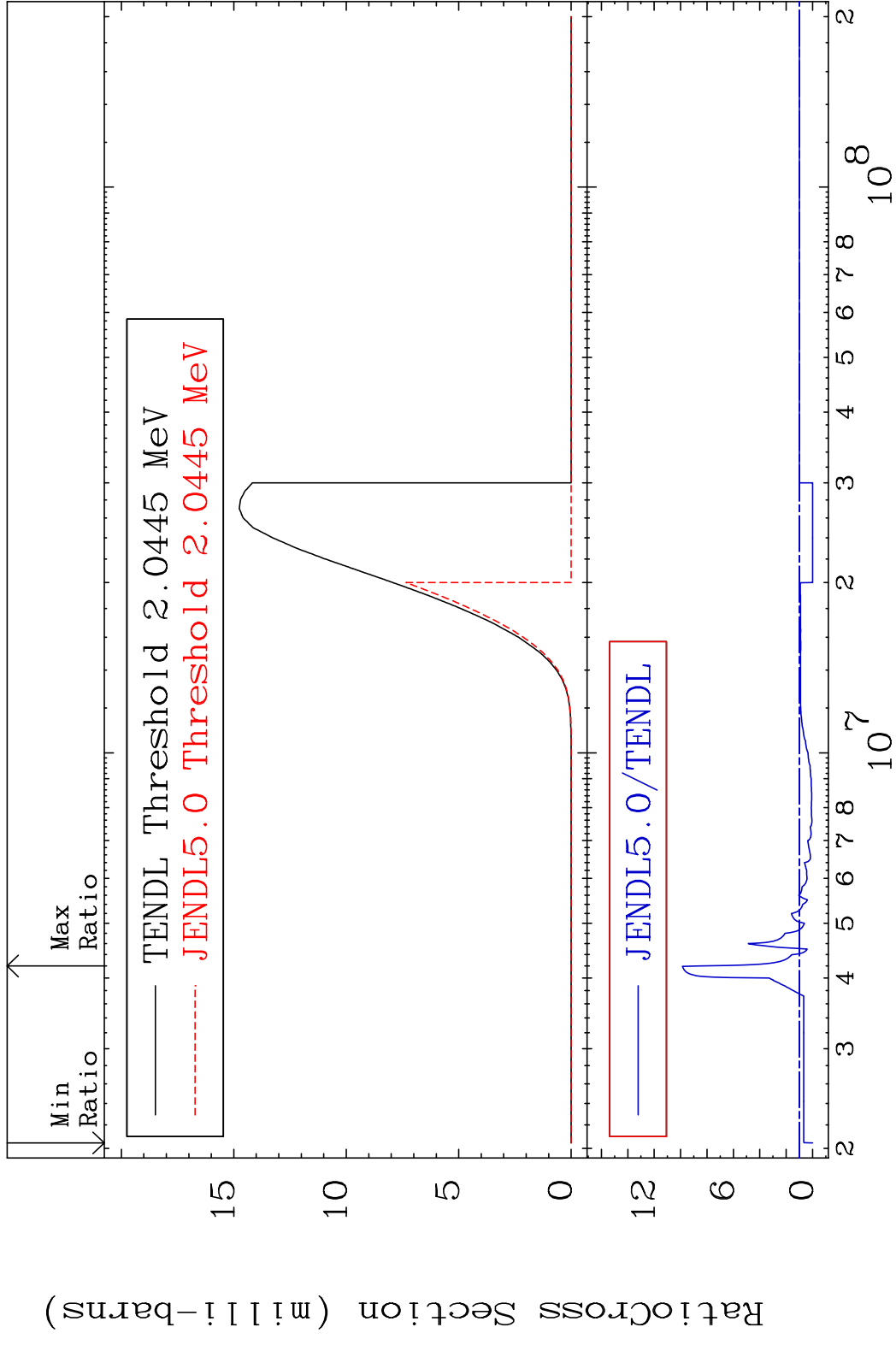
63-Eu-146

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

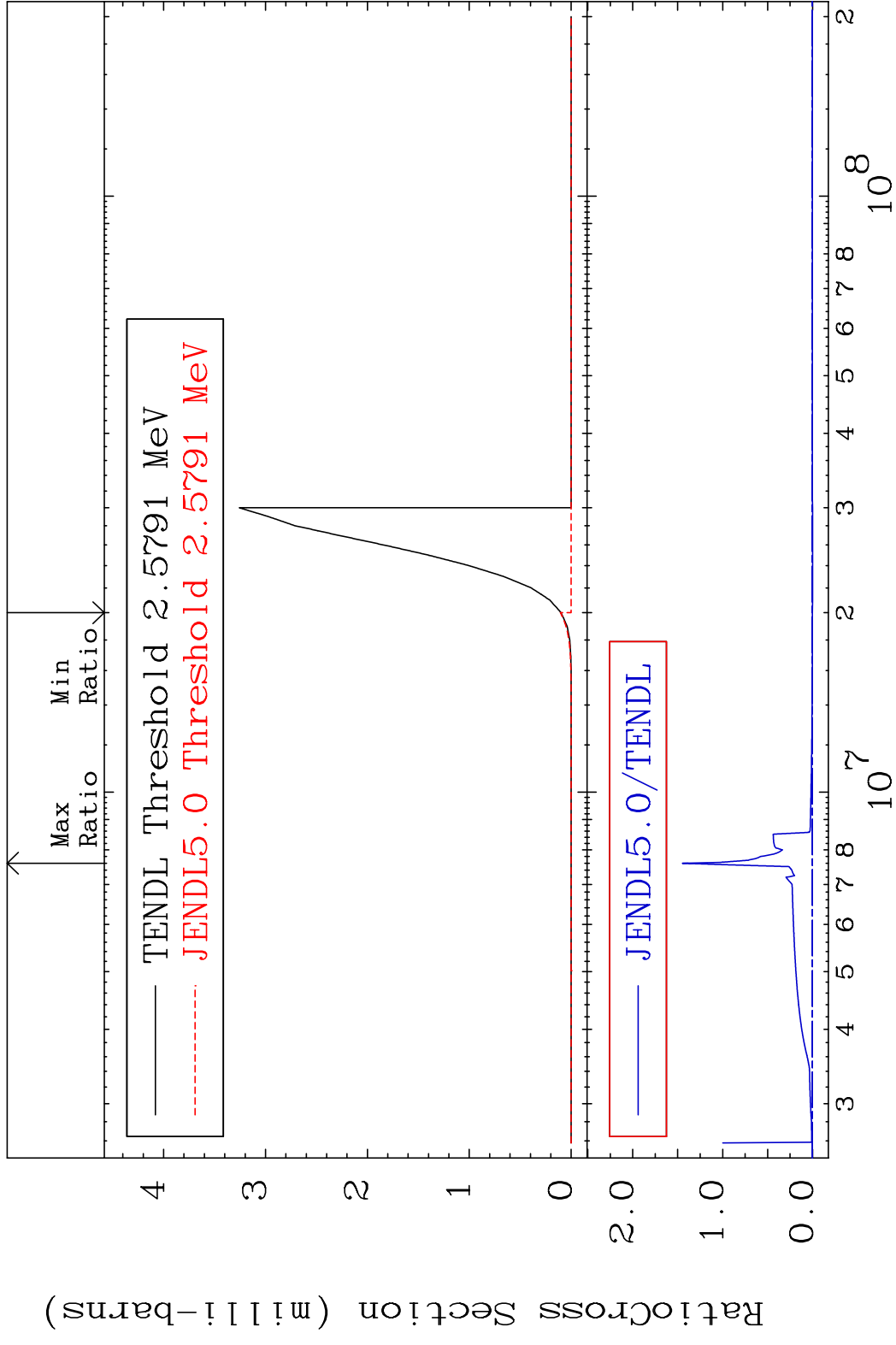
MAT 6310 (n,d) 63-Eu-146
 Cross Section -100.0 To 9999. %



MAT 6310 (n, t) 63-Eu-146
 Cross Section -100.0 To 886.5 %

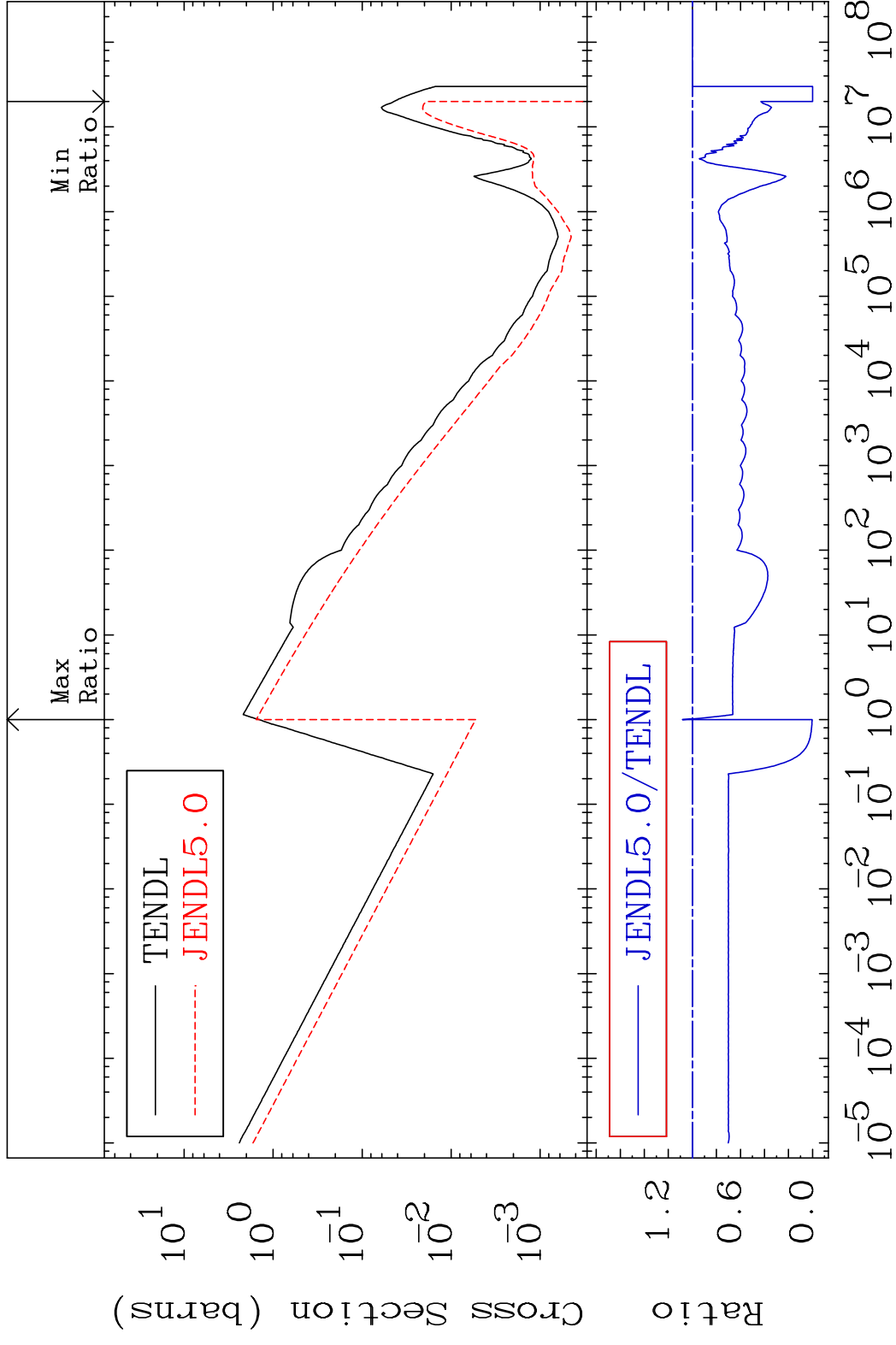


MAT 6310 (n, He-3) 63-Eu-146
 Cross Section -100.0 To 9999. %

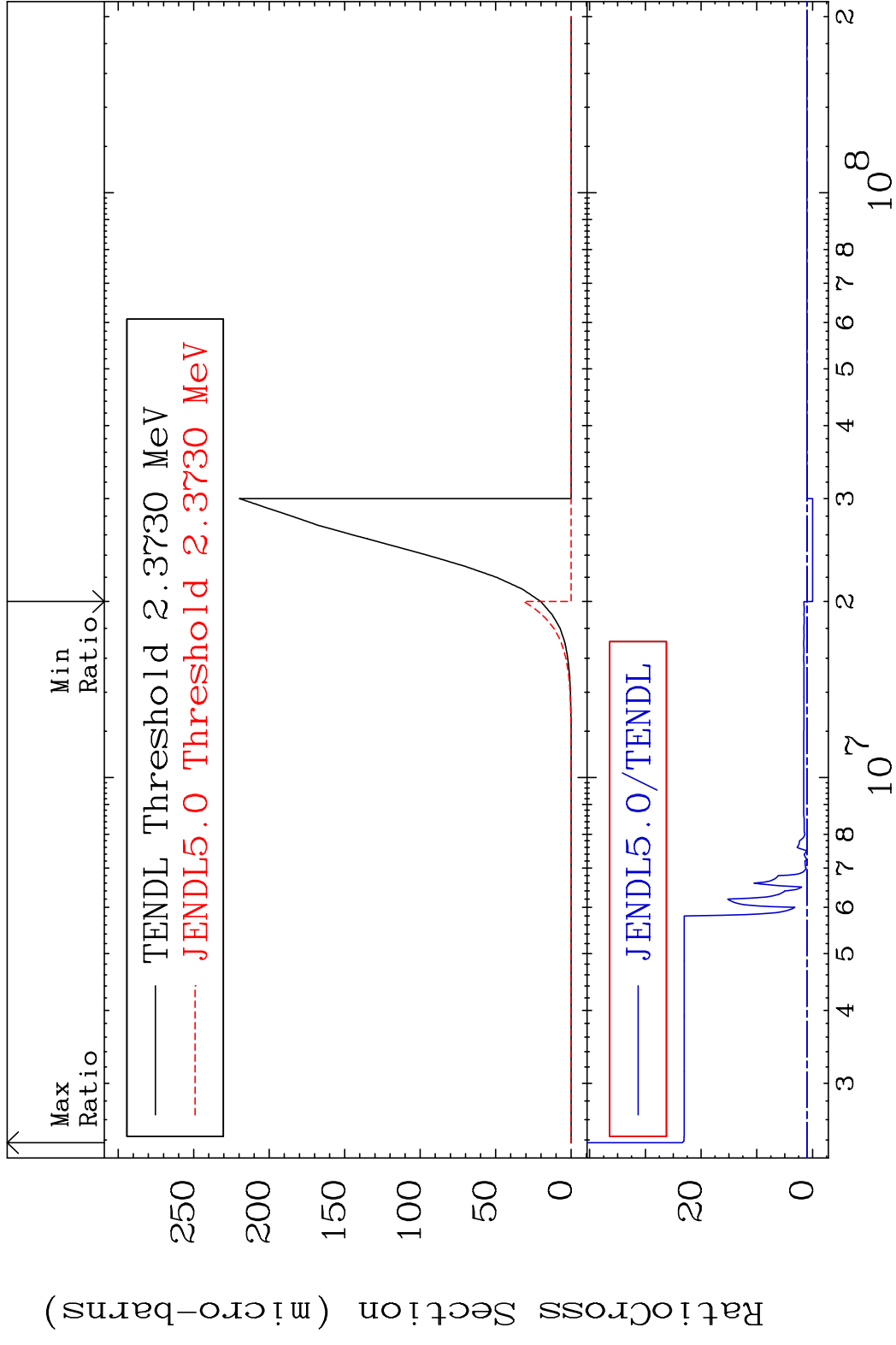


30 30 Incident Energy (eV) 63-Eu-146

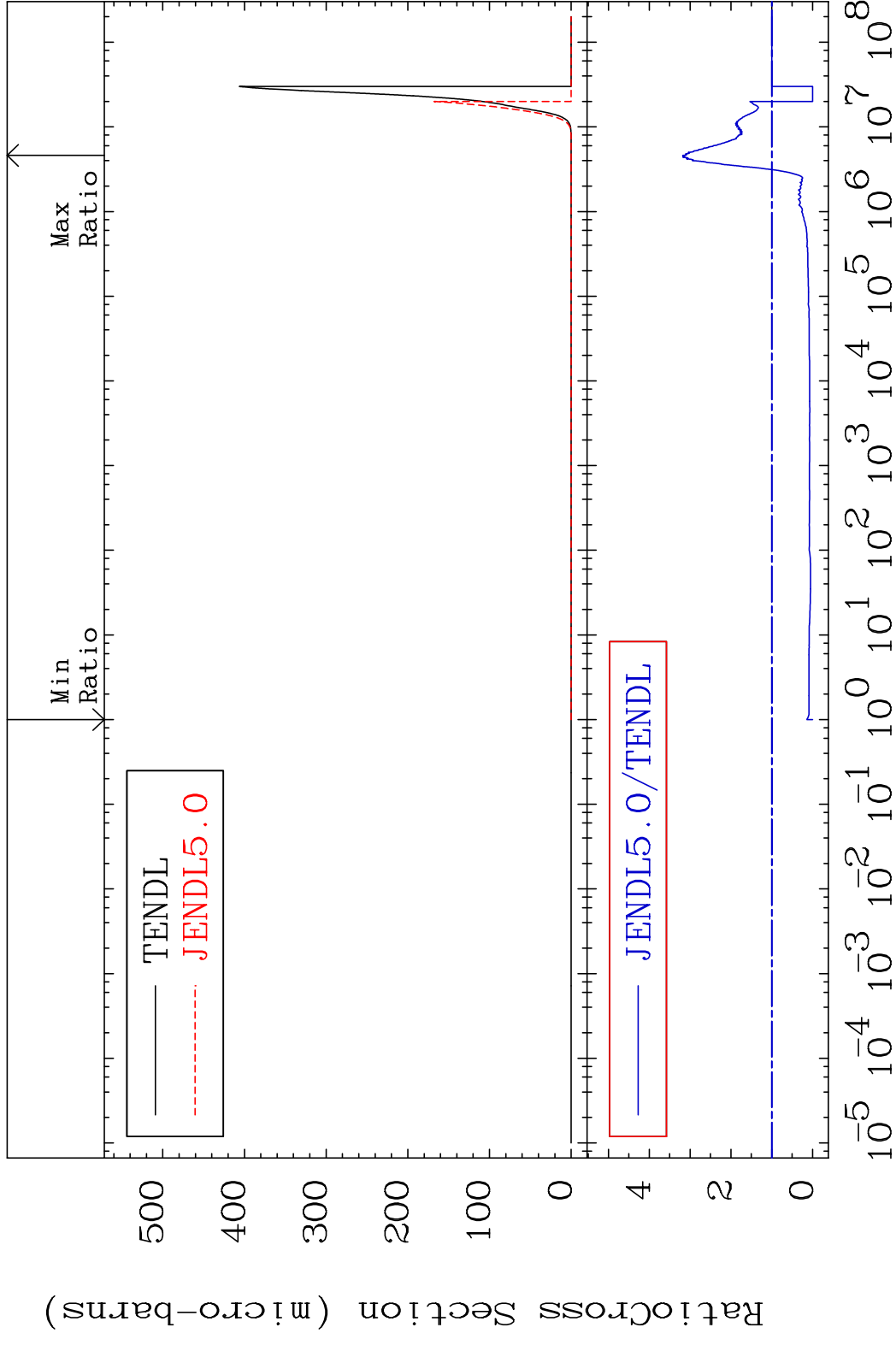
MAT 6310 (n, α) Cross Section -100.0 To 8.353 % 63-Eu-146



MAT 6310 (n,2p) 63-Eu-146
 Cross Section -100.0 To 2237. %



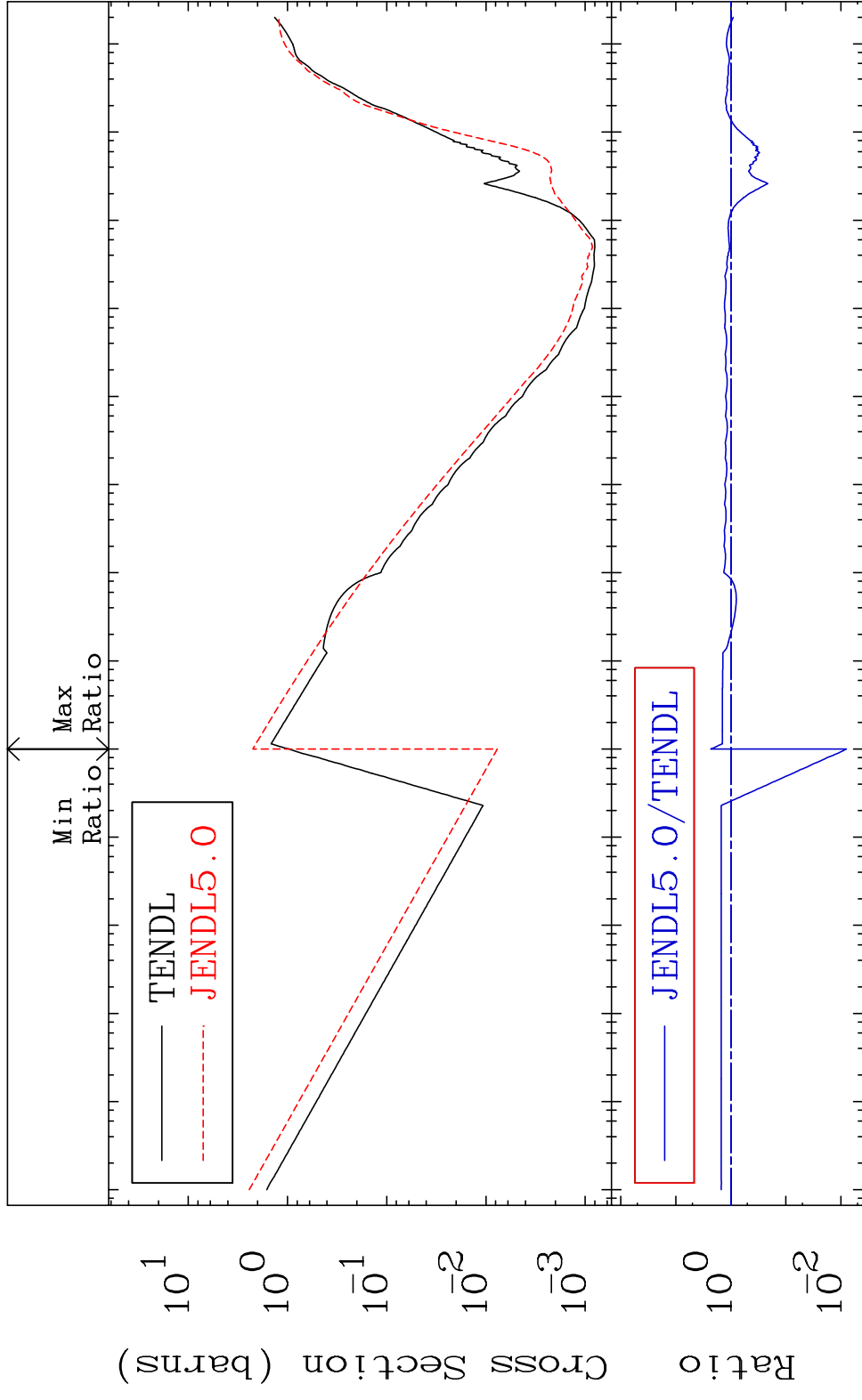
MAT 6310 (n,p) α 63-Eu-146
 Cross Section -100.0 To 219.0 %



MAT 6310

Hydrogen Production
Cross Section -99.20 To 132.4 %

63-Eu-146

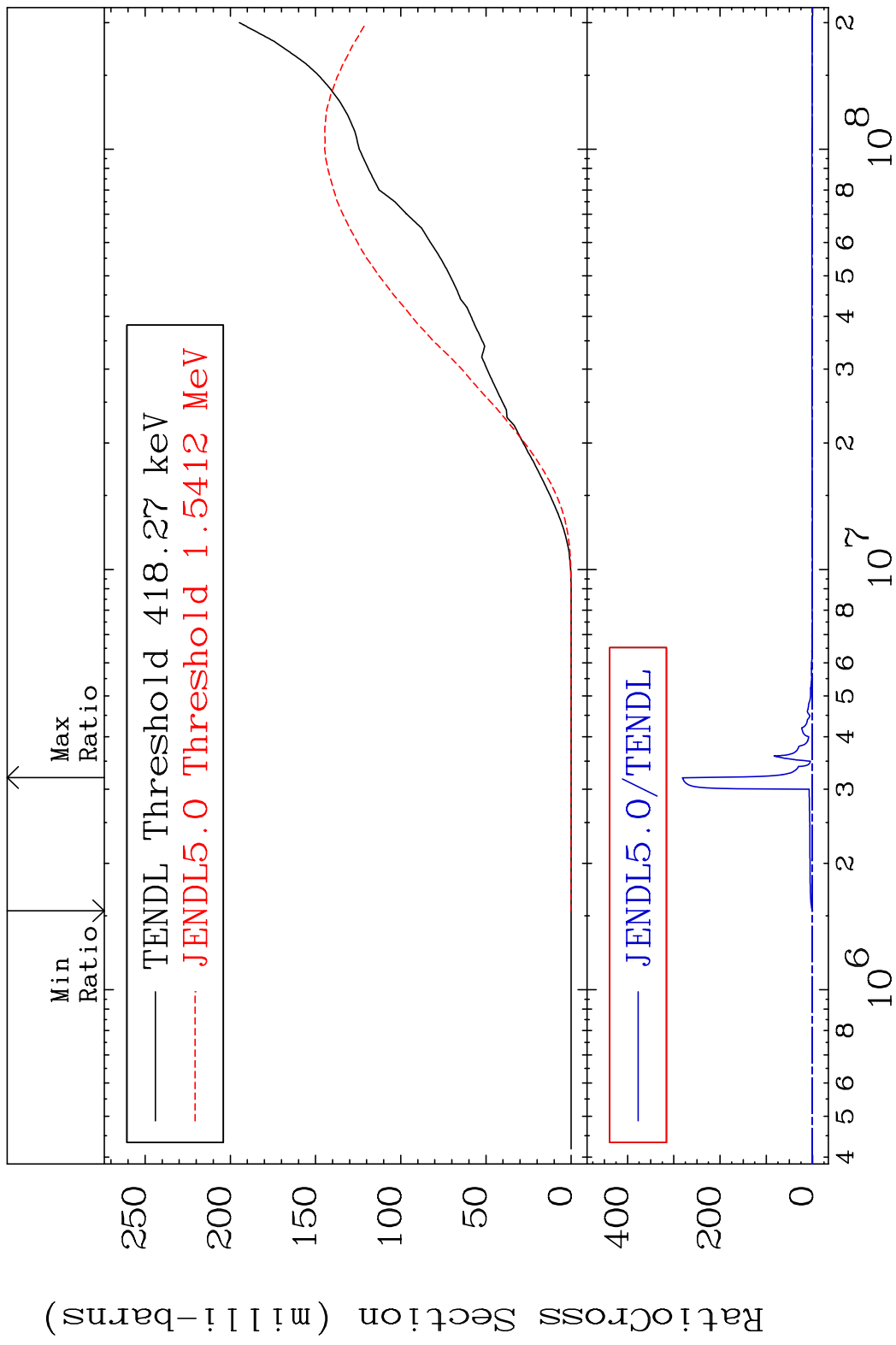


34

Incident Energy (eV)

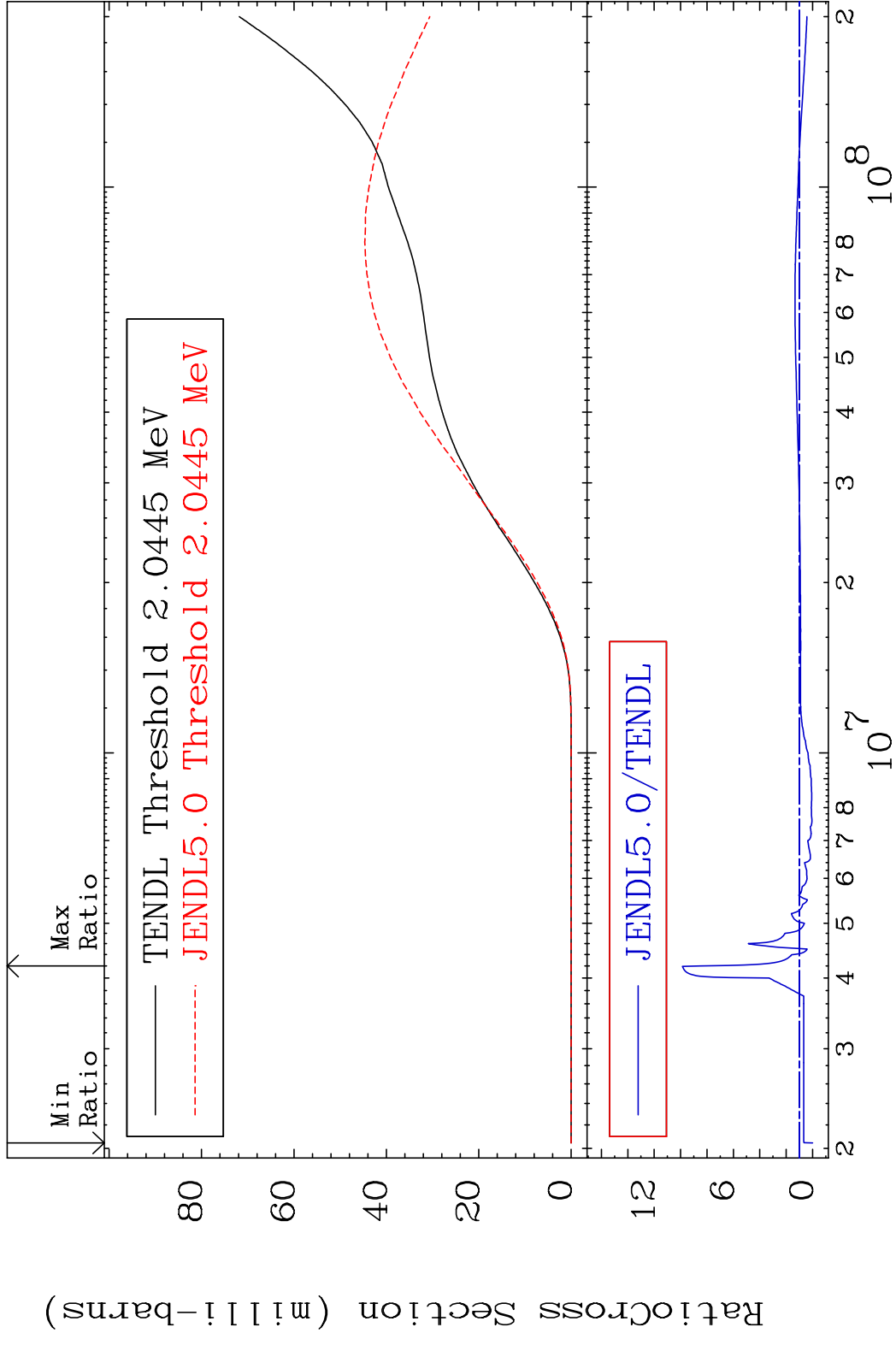
63-Eu-146

MAT 6310 Deuterium Production 63-Eu-146
 Cross Section -100.0 To 9999. %

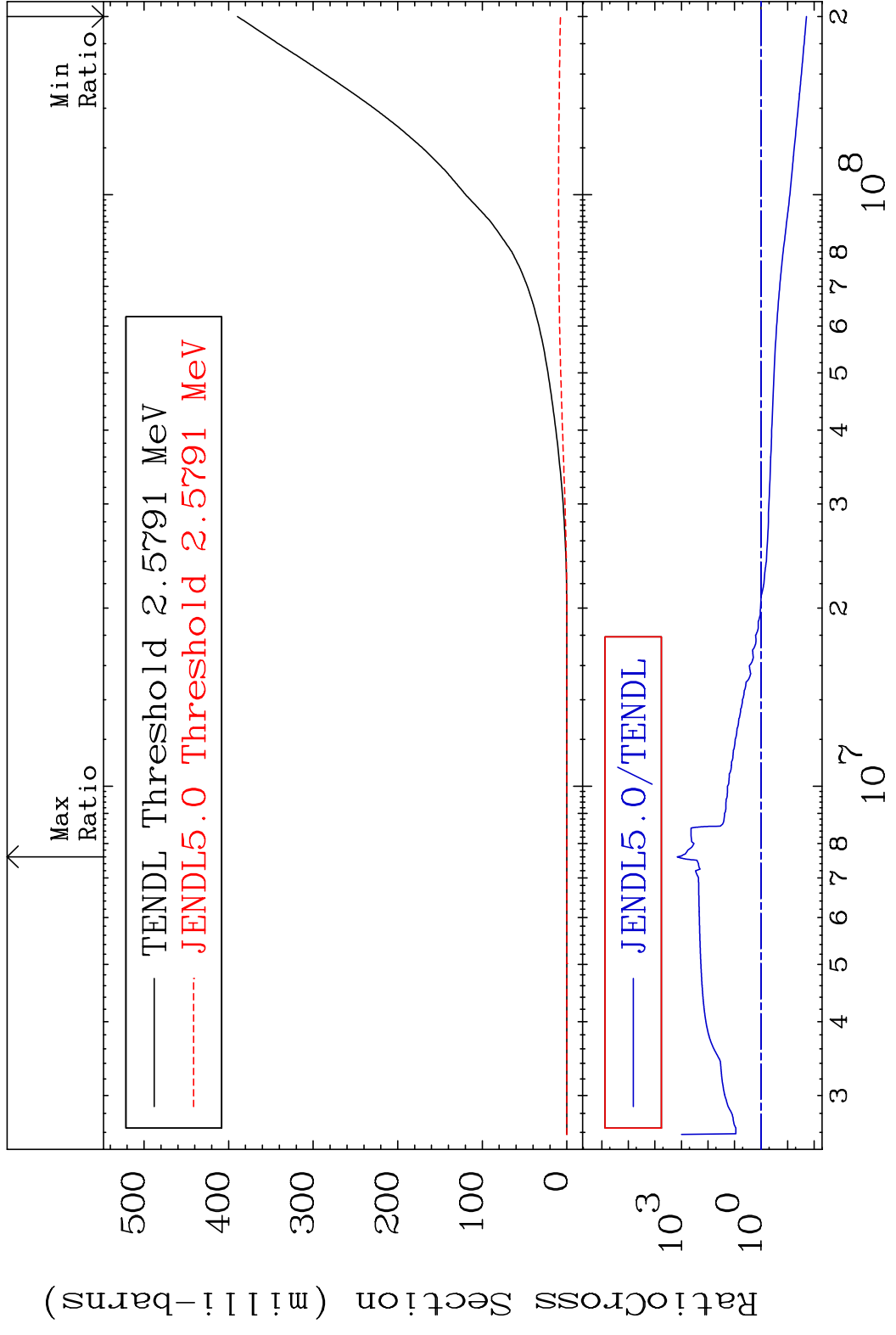


35 Incident Energy (eV) 63-Eu-146

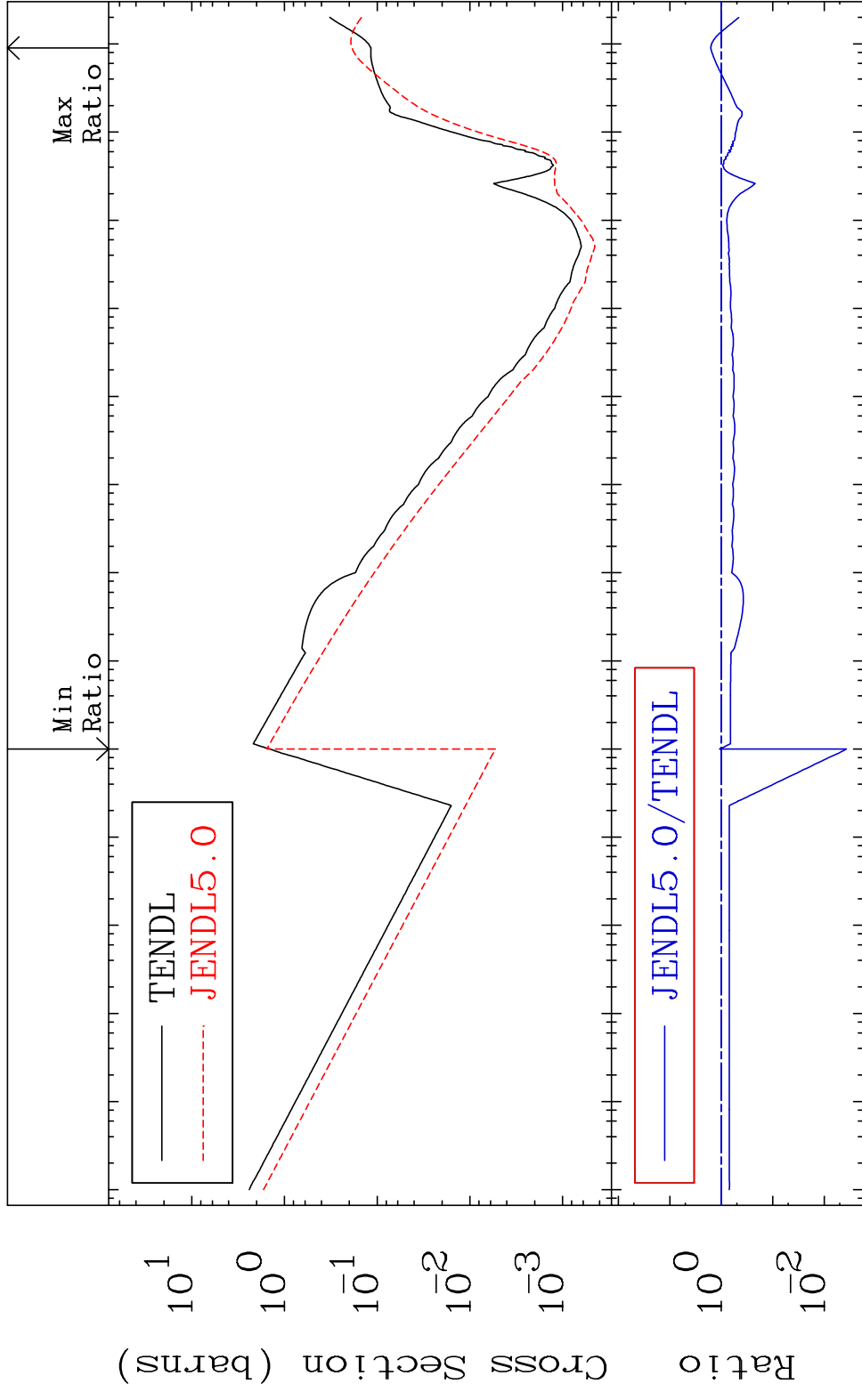
MAT 6310 Tritium Production 63-Eu-146
 Cross Section -100.0 To 886.5 %



MAT 6310 He-3 Production 63-Eu-146
 Cross Section -98.04 To 9999. %



MAT 6310 He-4 Production 63-Eu-146
 Cross Section -99.63 To 60.60 %

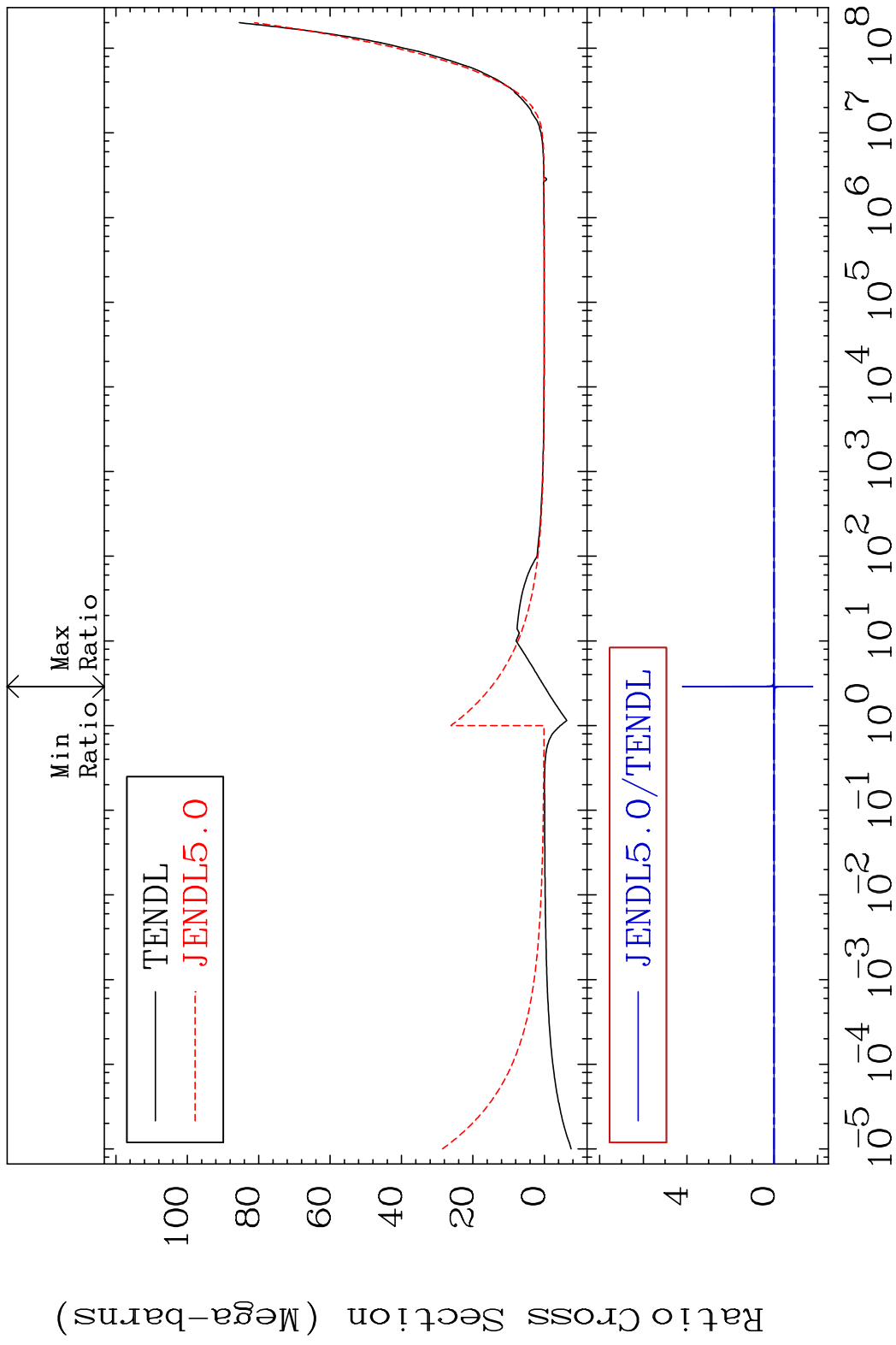


Ratio
 10¹
 10⁰
 10⁻¹
 10⁻²
 10⁻³

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

38 Incident Energy (eV) 63-Eu-146

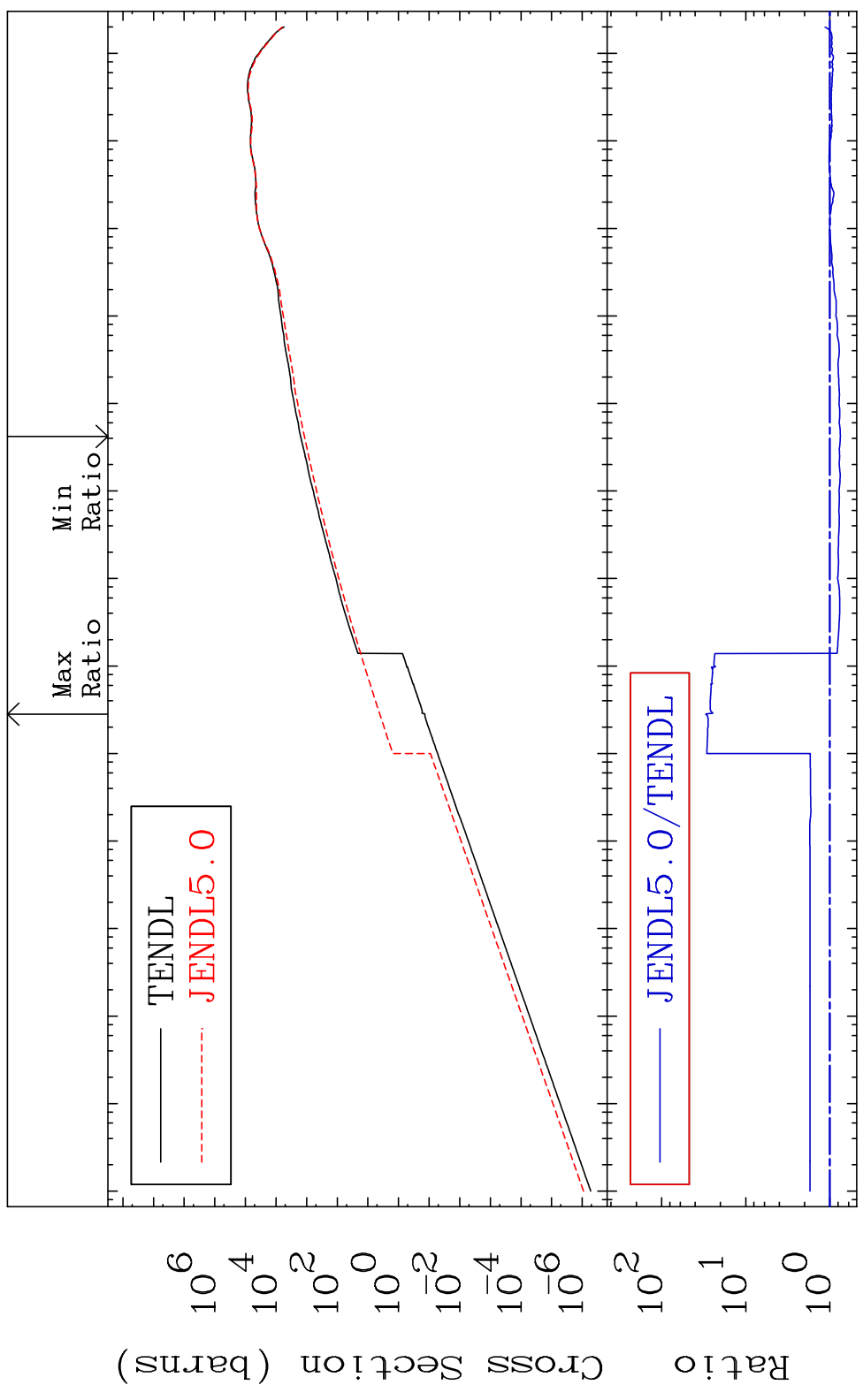
MAT 6310 Kerma total (eV-barns) 63-Eu-146
 Cross Section -9999. To 9999. %



39 Incident Energy (eV) 63-Eu-146

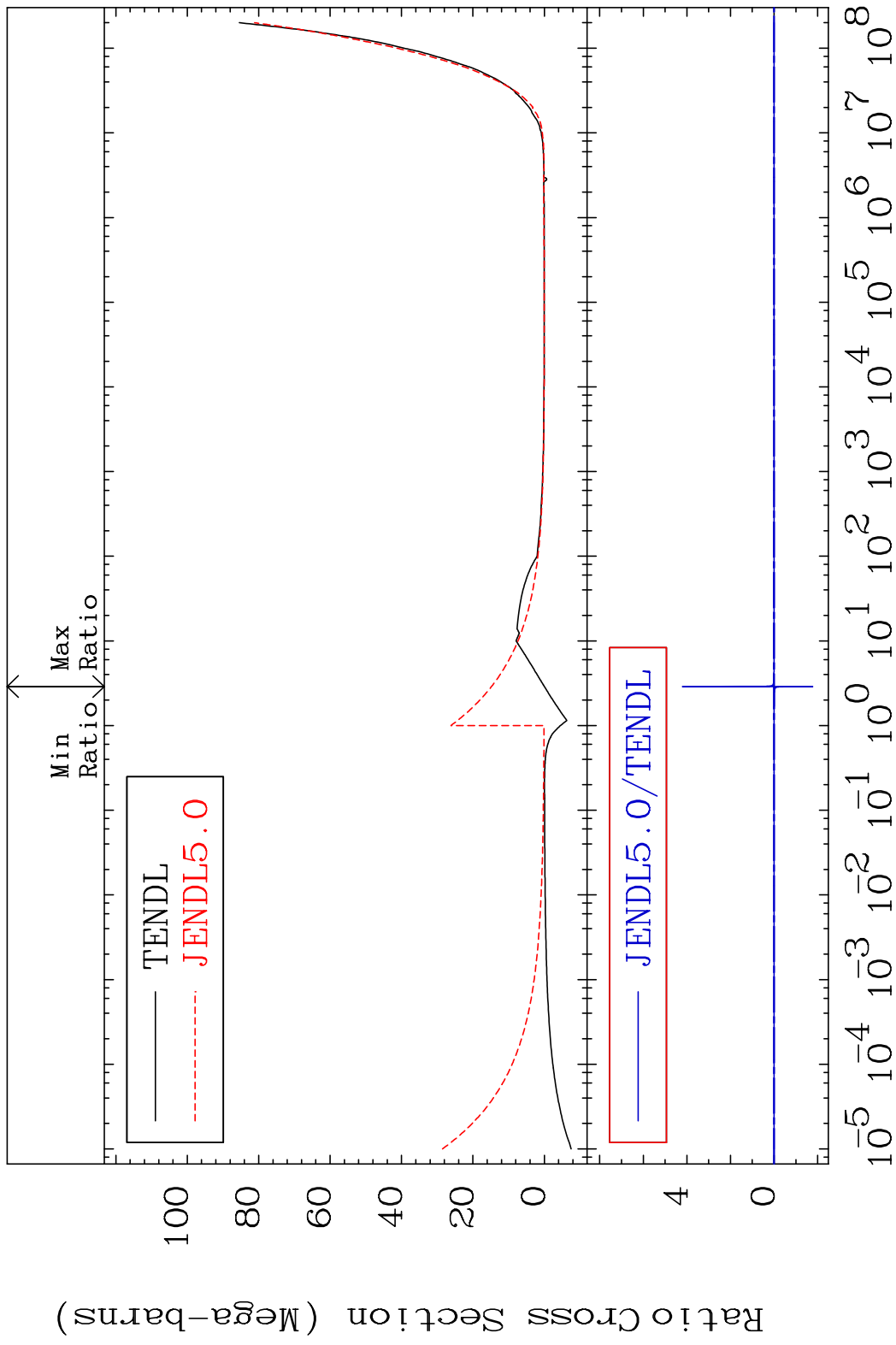
MAT 6310

Kerma elastic Cross Section -24.92 To 2893. %
63-Eu-146



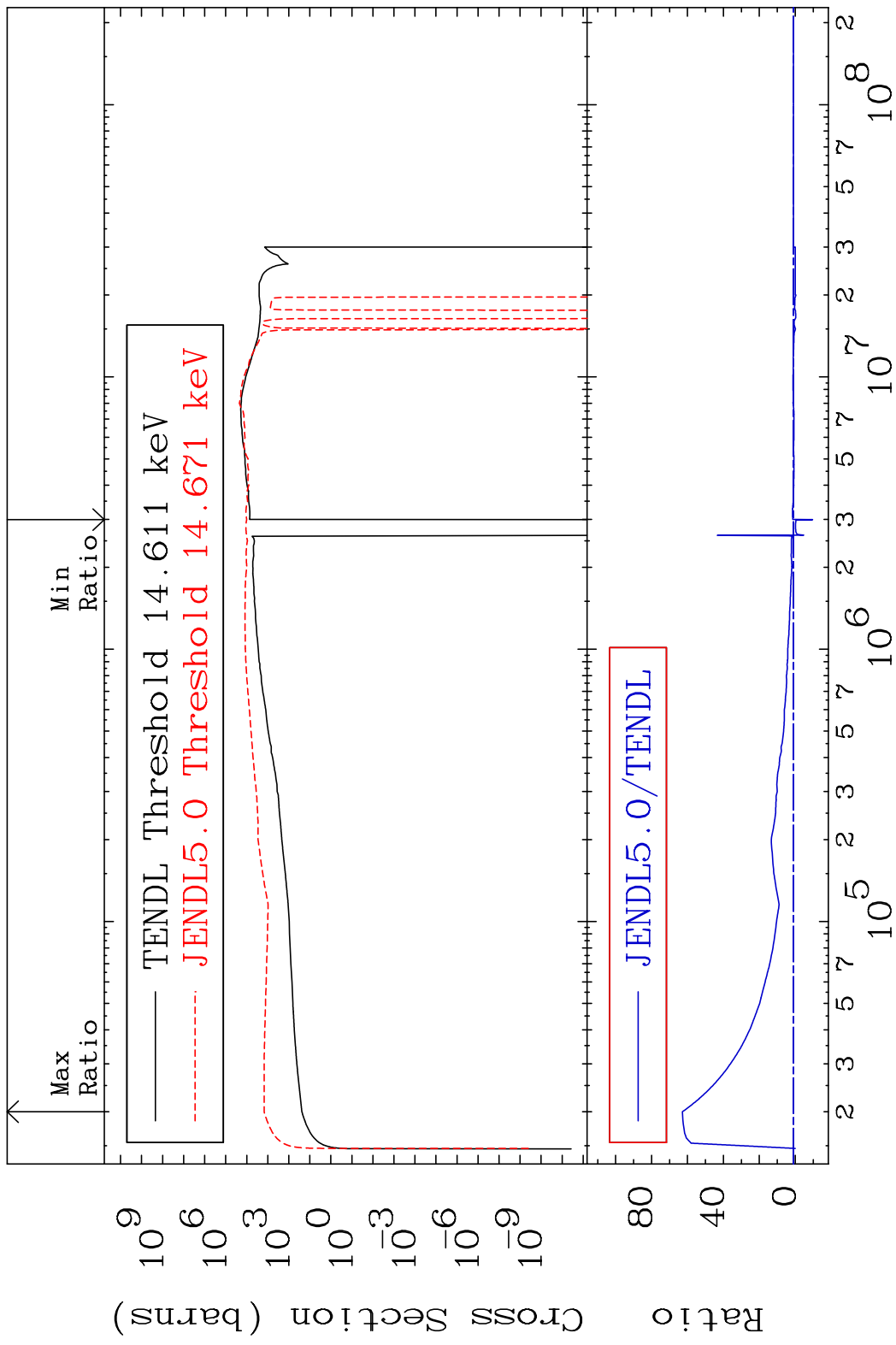
Ratio
Cross Section (barns)
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
40 Incident Energy (eV) 63-Eu-146

MAT 6310 Kerma non-elastic (all but mt2) 63-Eu-146
 Cross Section -9999. To 9999. %

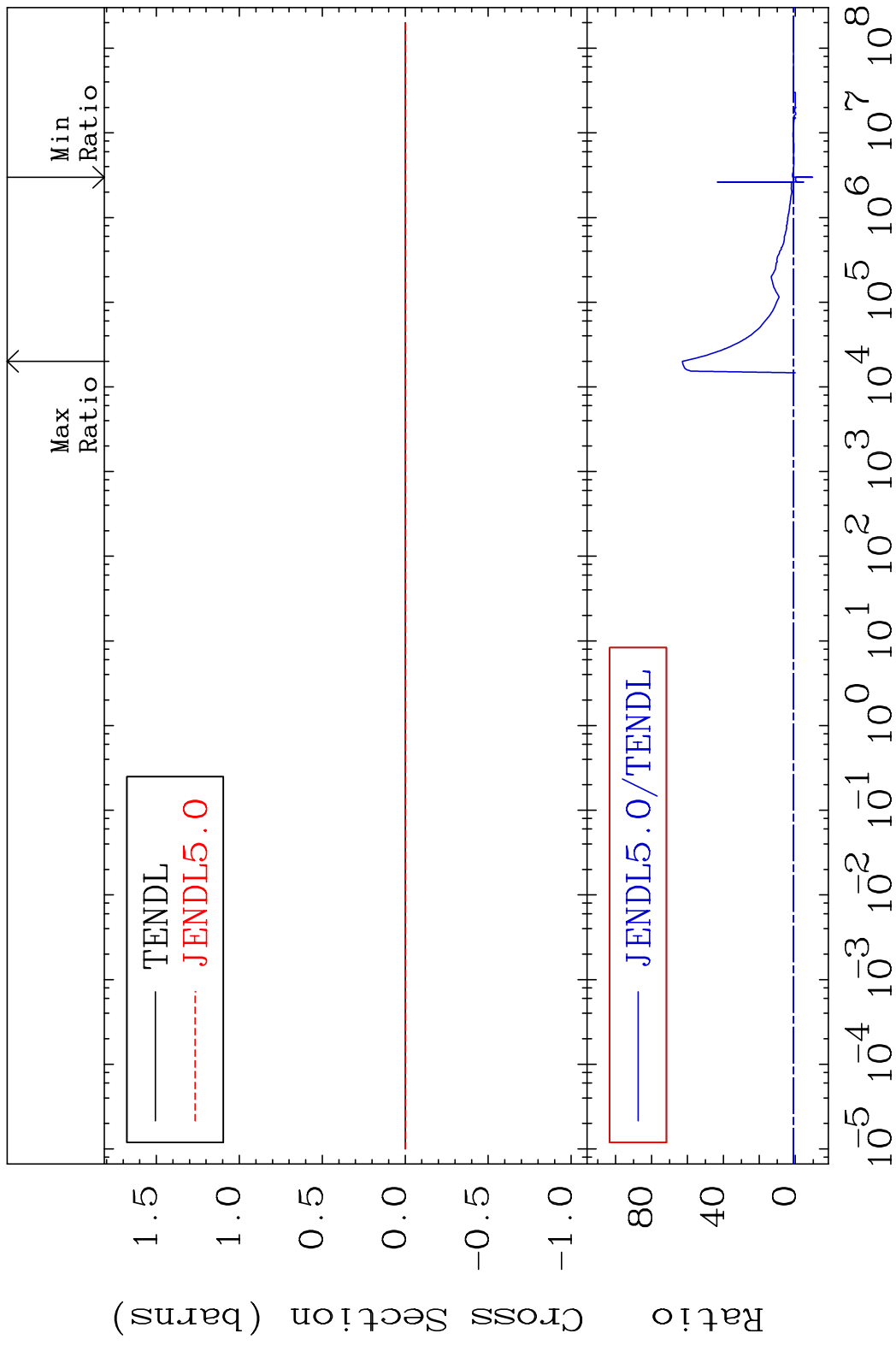


41 Incident Energy (eV) 63-Eu-146

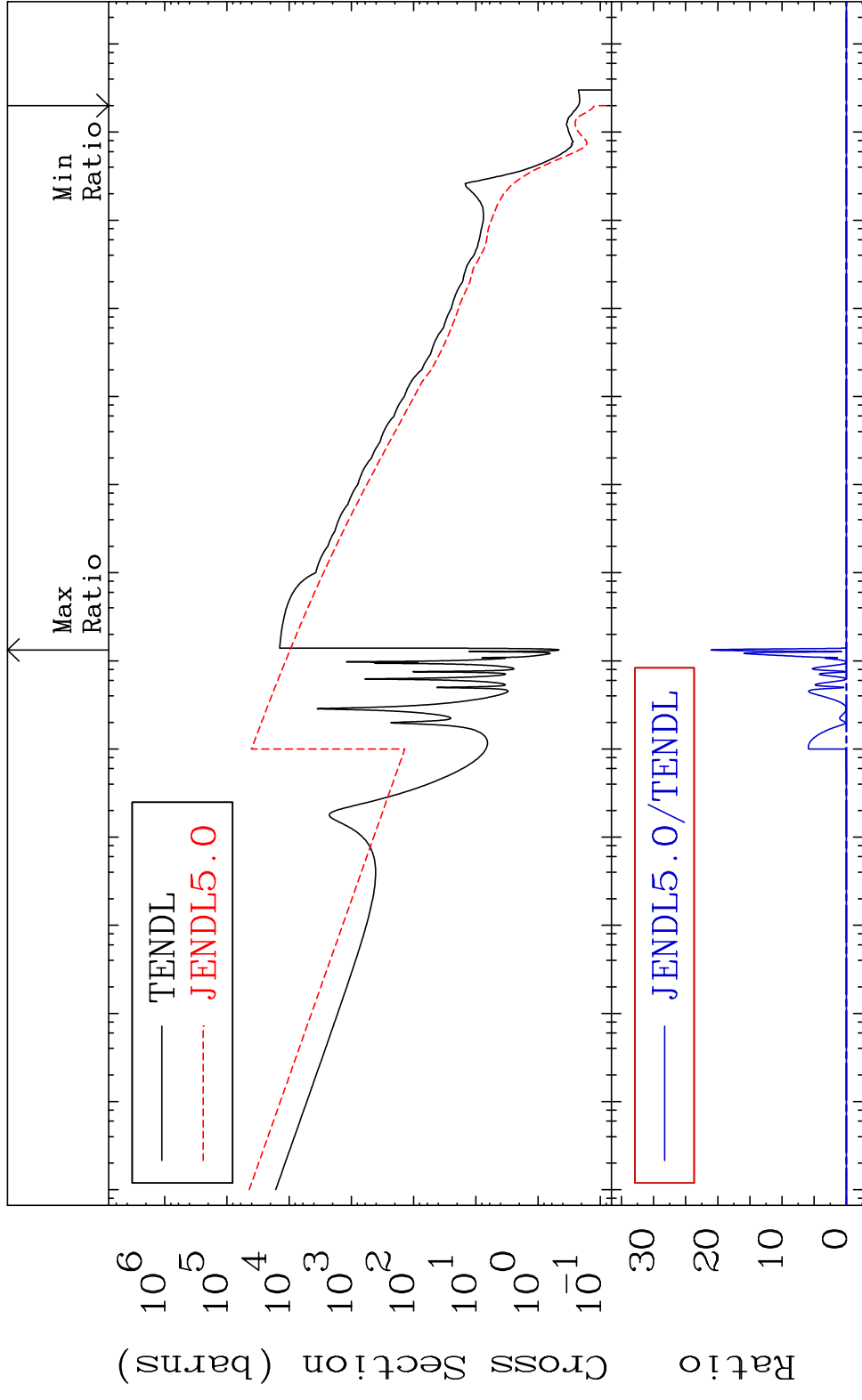
MAT 6310 Kerma inelastic (mt51-91) 63-Eu-146
 Cross Section -1062. To 6186. %



MAT 6310 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-146
 Cross Section -1062. To 6186. %

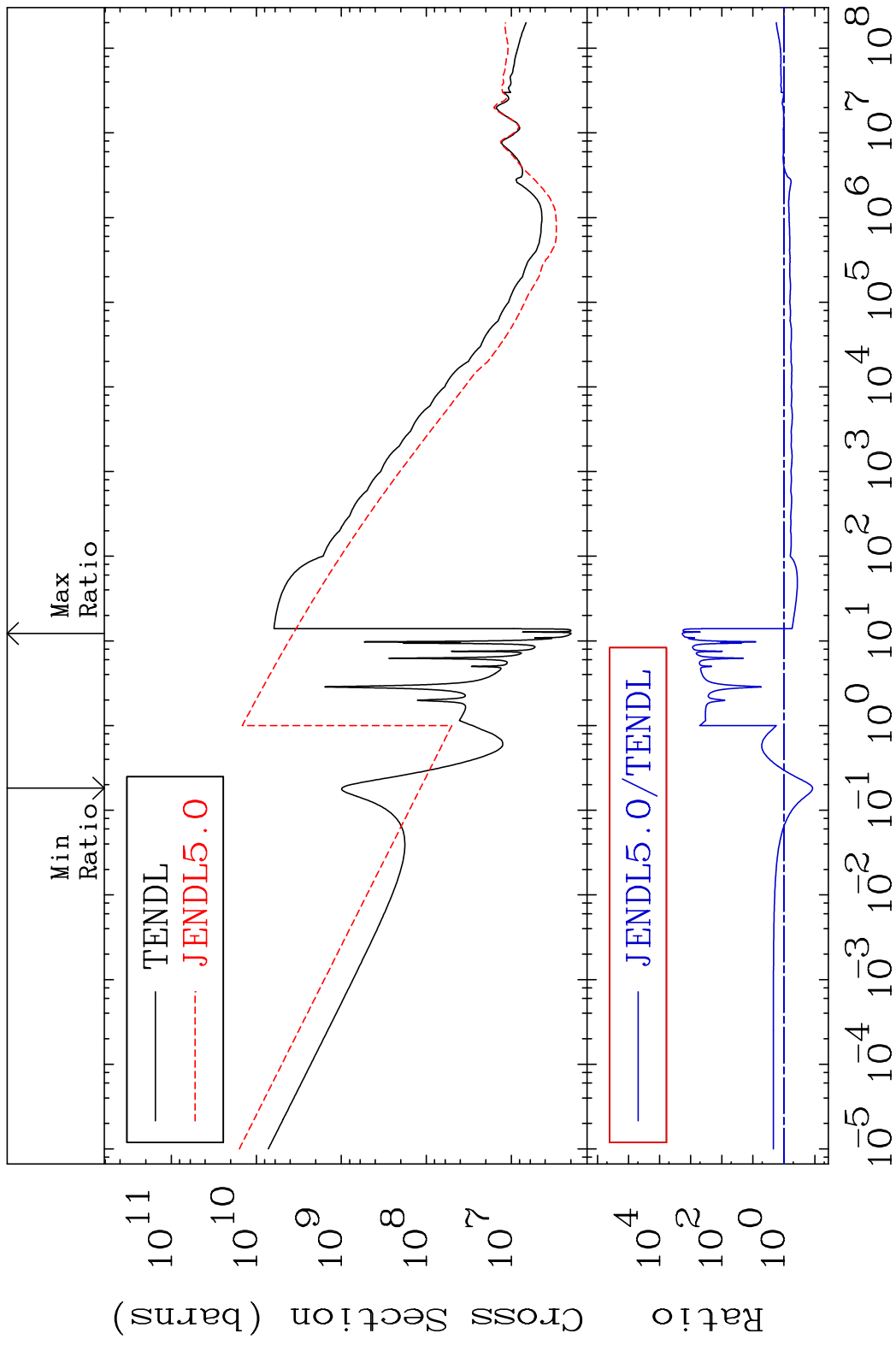


MAT 6310 Kerma capture (mt102) 63-Eu-146
 Cross Section -100.0 To 9999. %



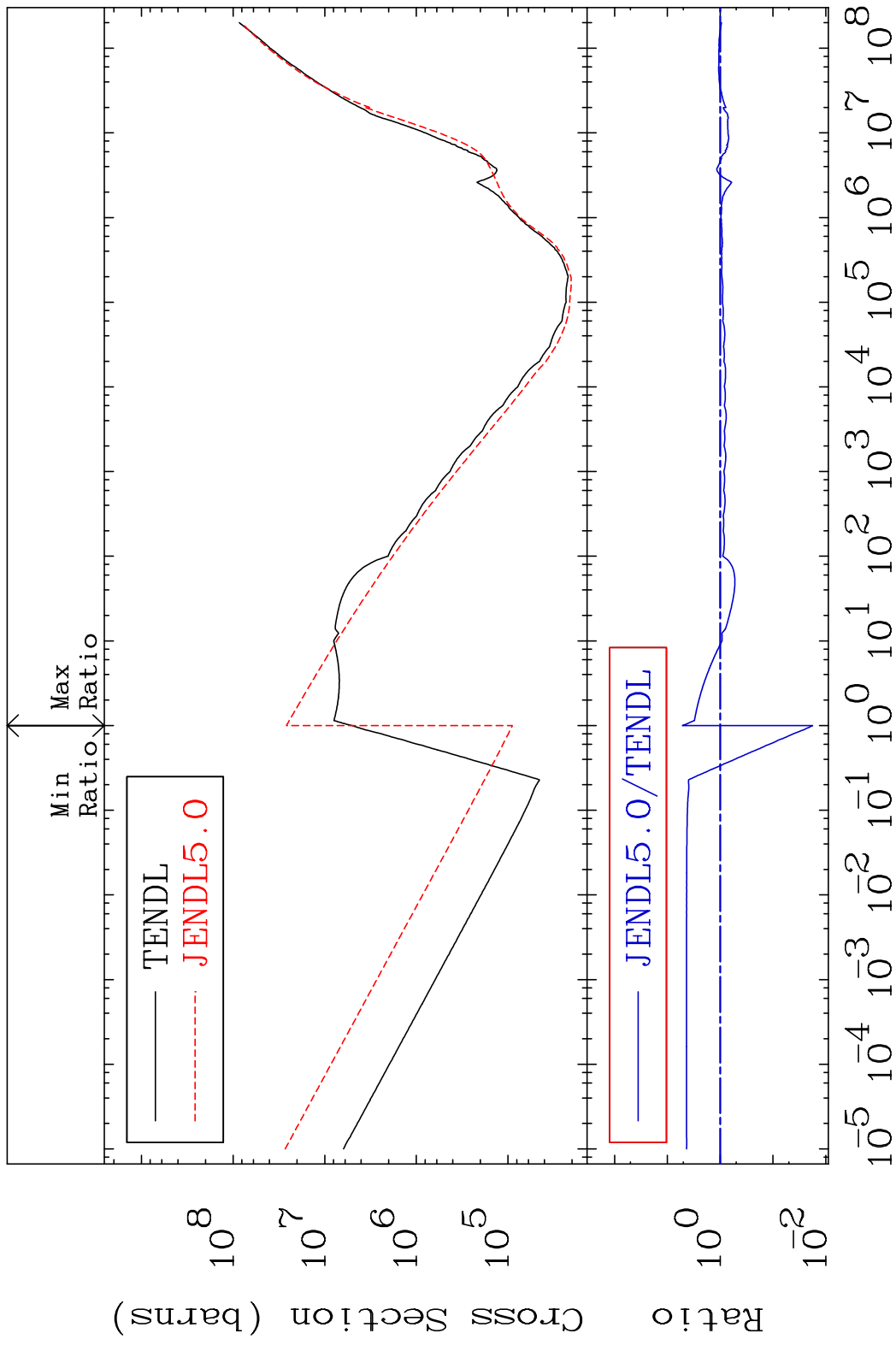
44 Incident Energy (eV) 63-Eu-146

MAT 6310 Total photon (eV-barns) 63-Eu-146
 Cross Section -88.04 To 9999. %

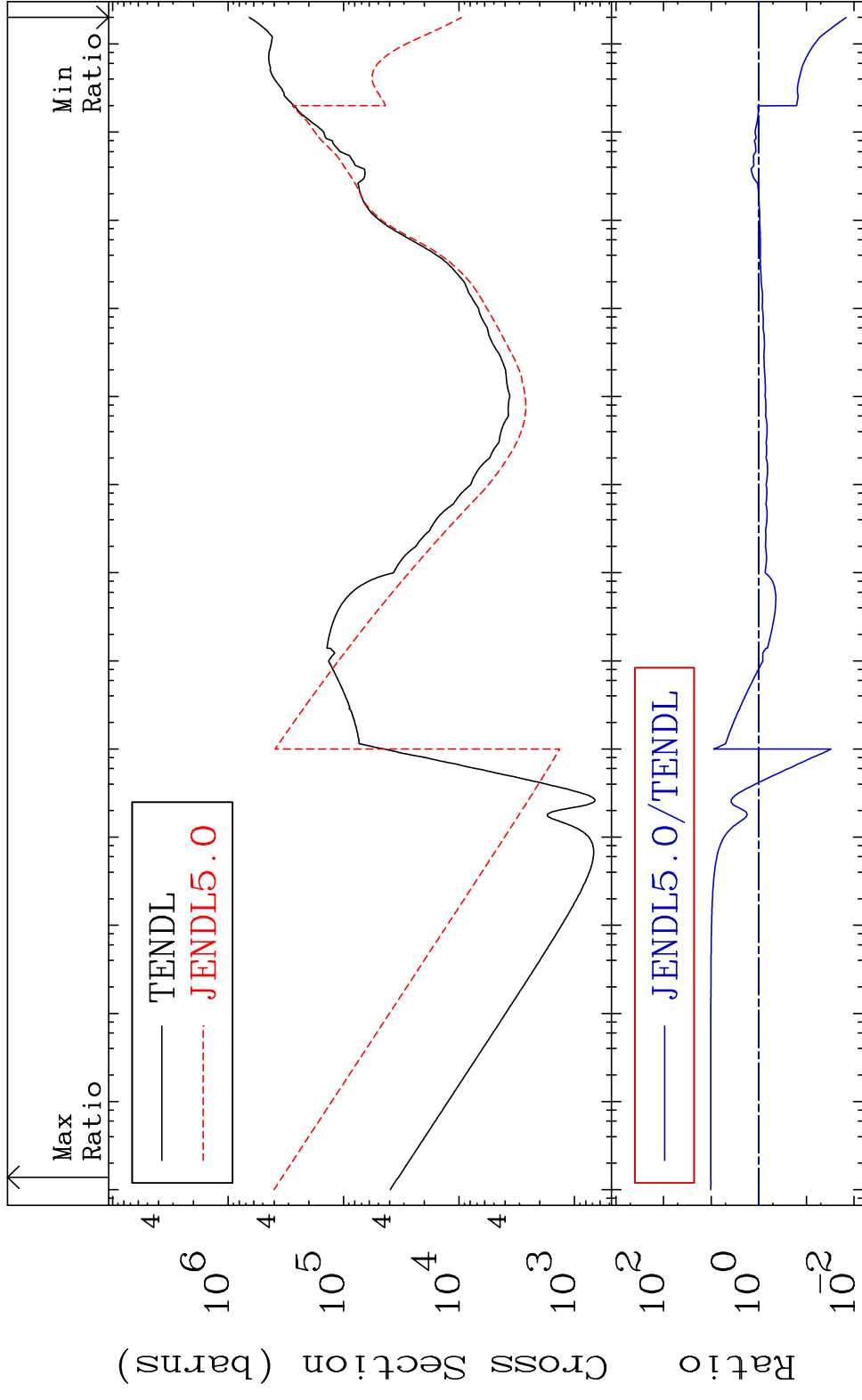


45 Incident Energy (eV) 63-Eu-146

MAT 6310 Total kinematic kerma (high limit) 63-Eu-146
 Cross Section -98.21 To 420.6 %



MAT 6310 Dpa total (eV-barns) 63-Eu-146
 Cross Section -98.55 To 919.8 %

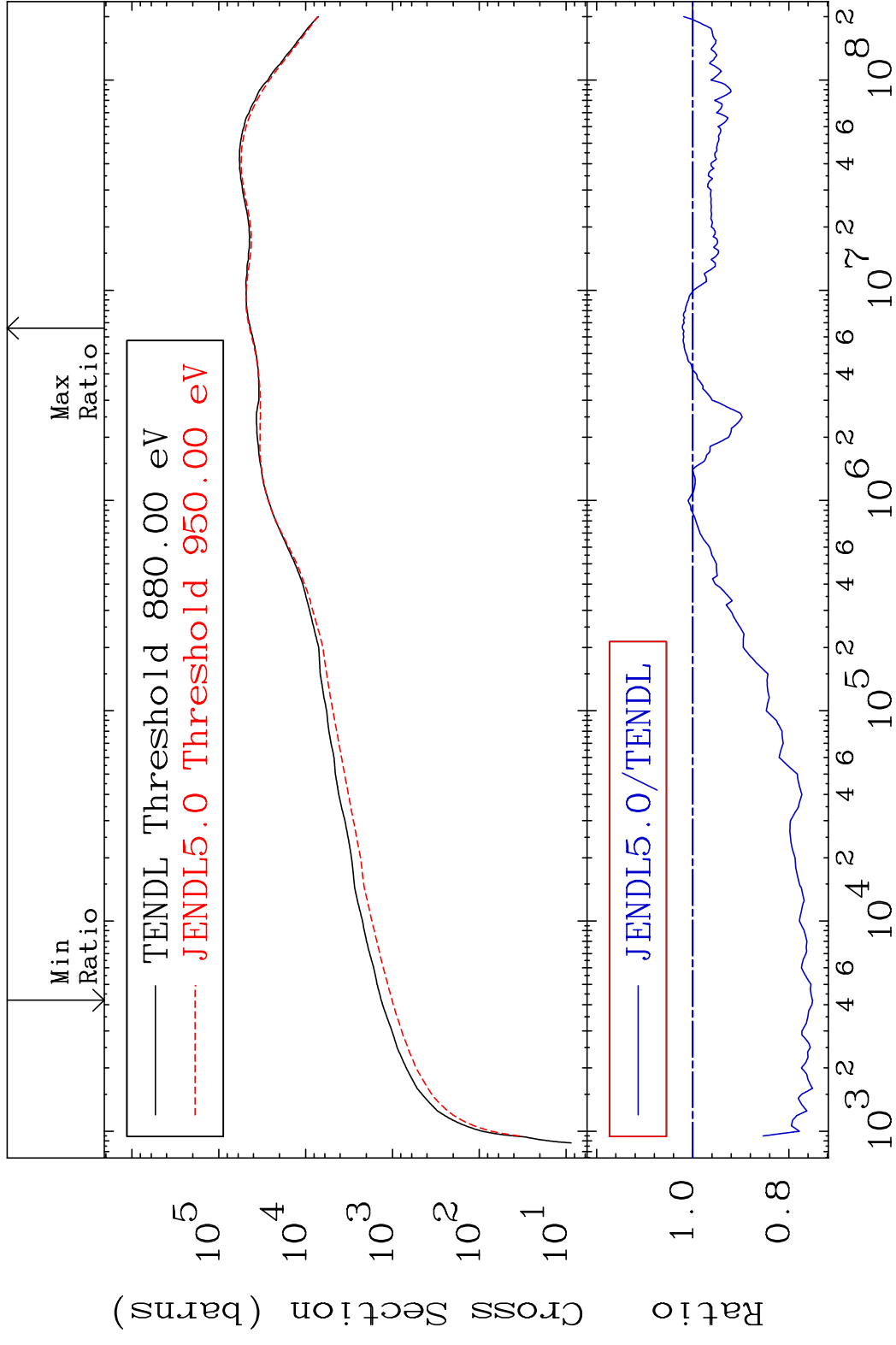


MAT 6310

Dpa elastic (mt2)

63-Eu-146

Cross Section -24.92 To 2.166 %

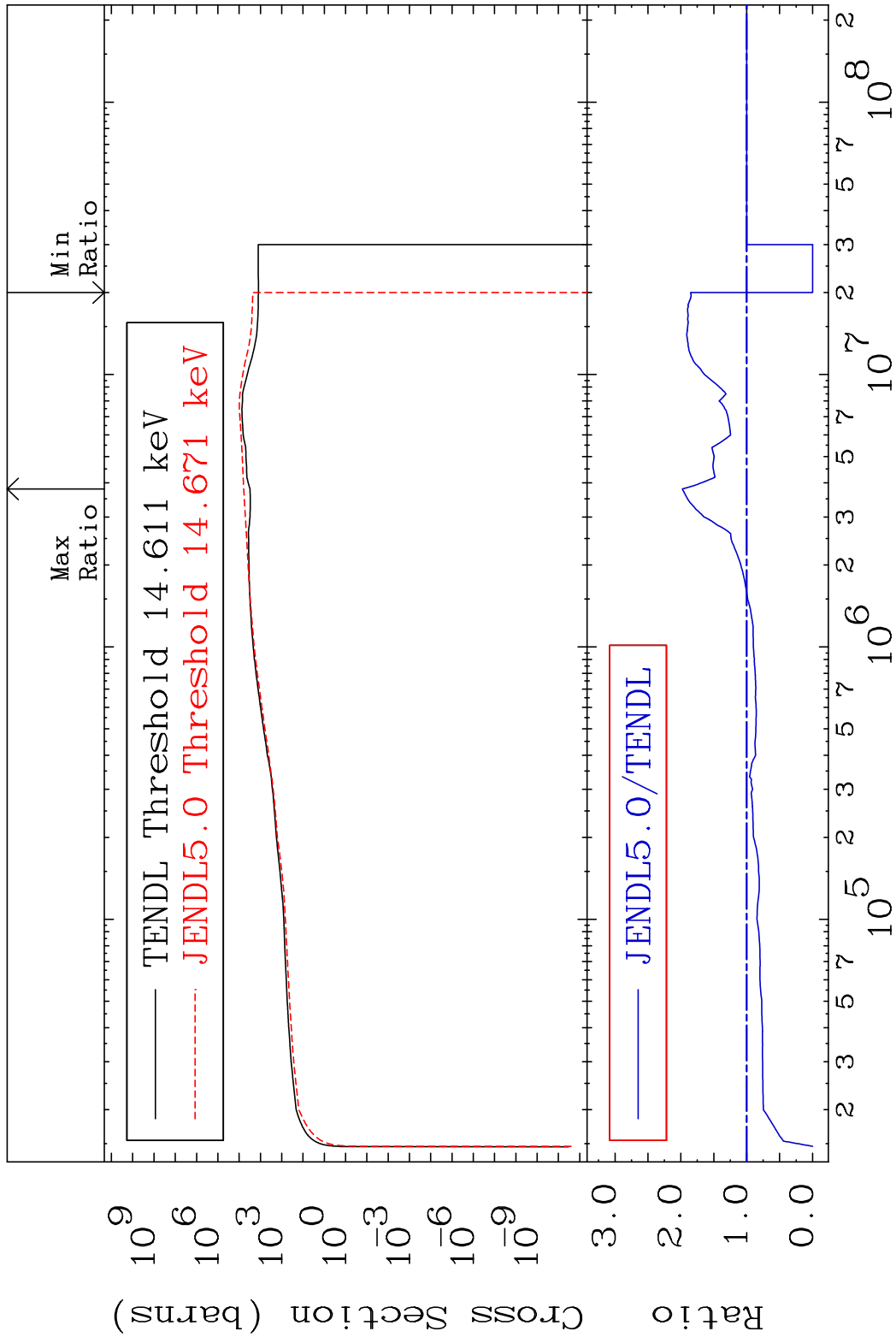


48

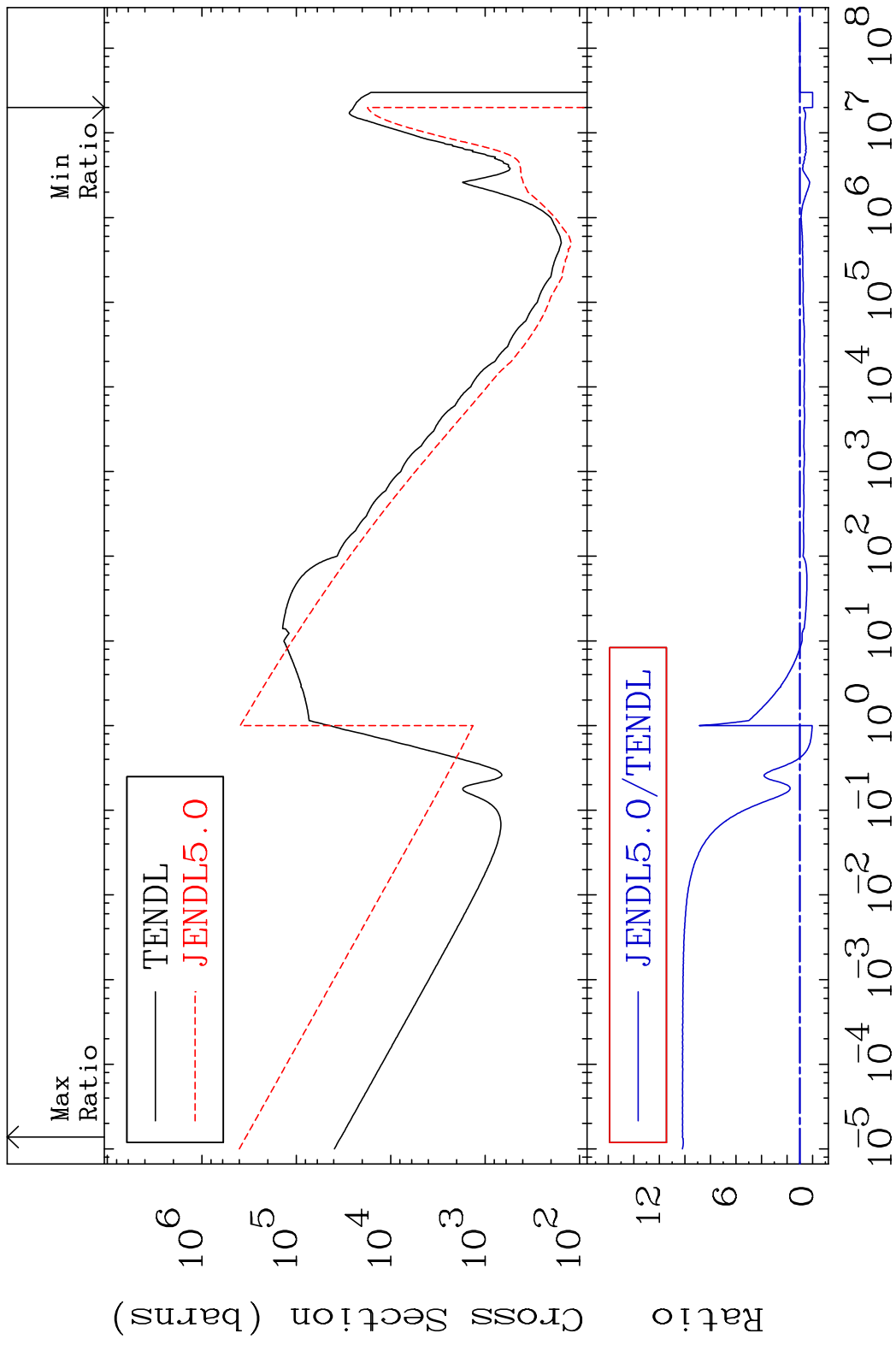
Incident Energy (eV)

63-Eu-146

MAT 6310 Dpa inelastic (mt51-91) 63-Eu-146
 Cross Section -100.0 To 97.73 %



MAT 6310 Dpa disappearance (mt102 -120) 63-Eu-146
 Cross Section -100.0 To 919.8 %



50 Incident Energy (eV) 63-Eu-146

