

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

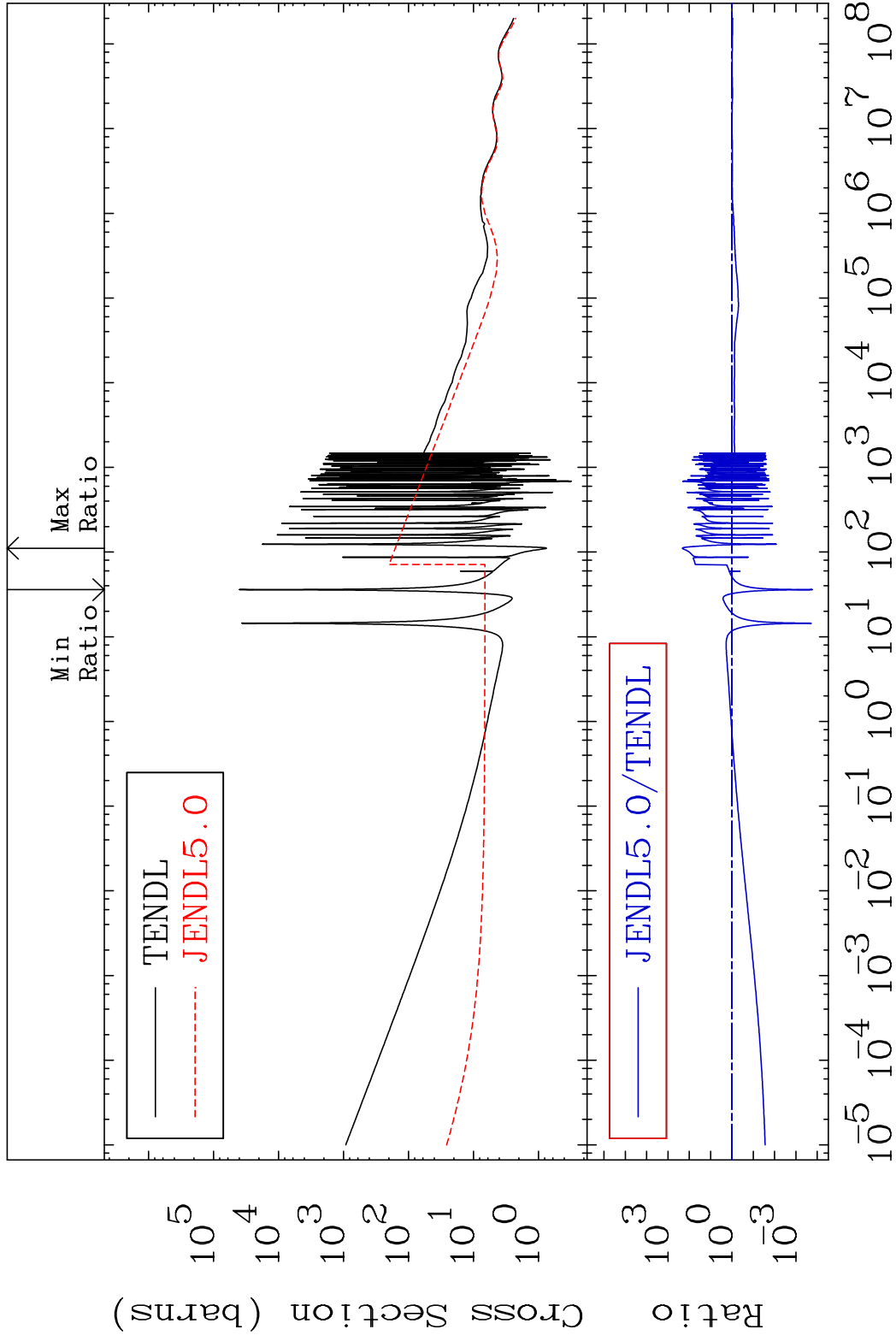
Press Mouse Button to Start

MAT 6231

Total

62-Sm-146

Cross Section -99.98 To 9999. %



1

Incident Energy (eV)

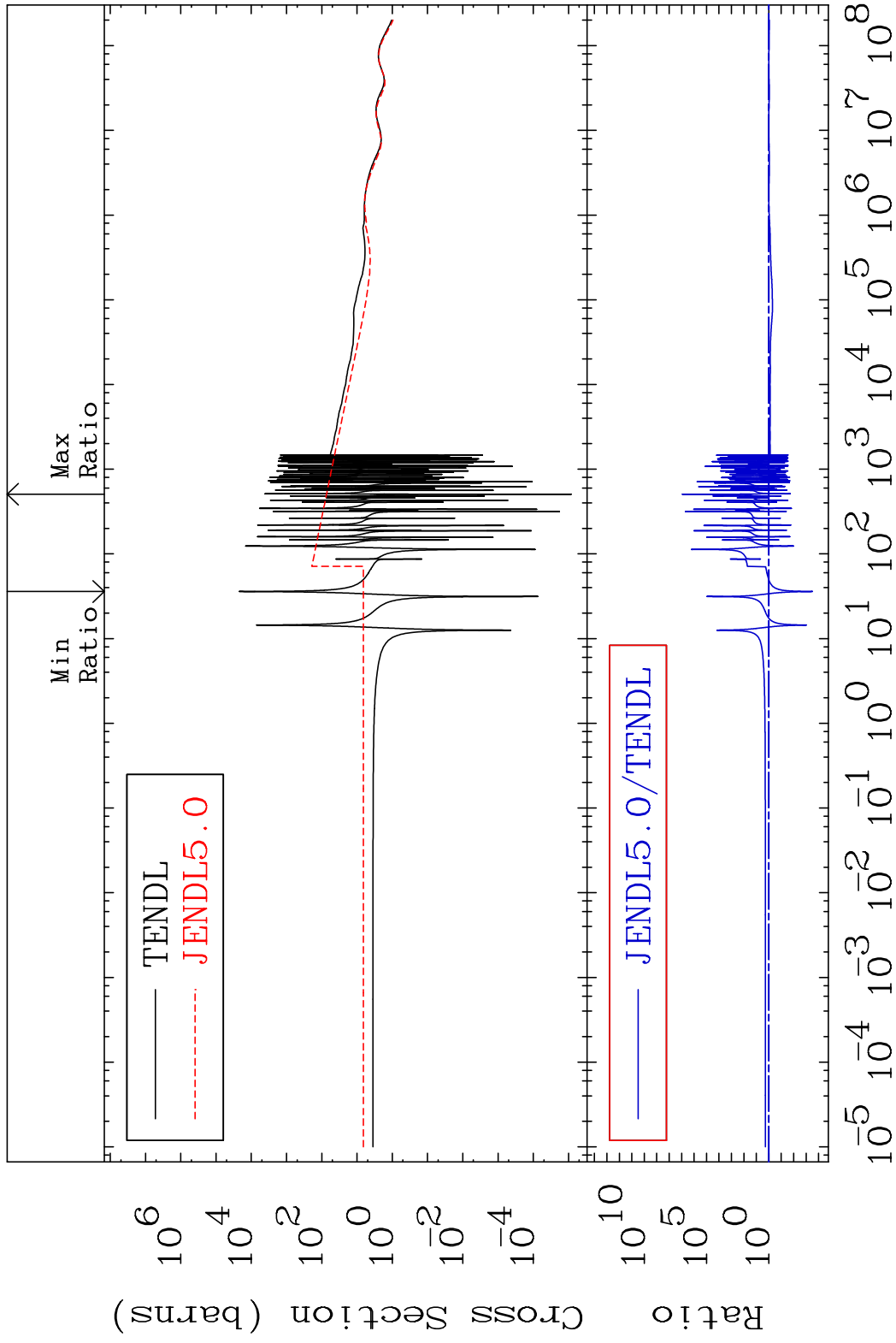
62-Sm-146

MAT 6231

Elastic

62-Sm-146

Cross Section -99.97 To 9999. %

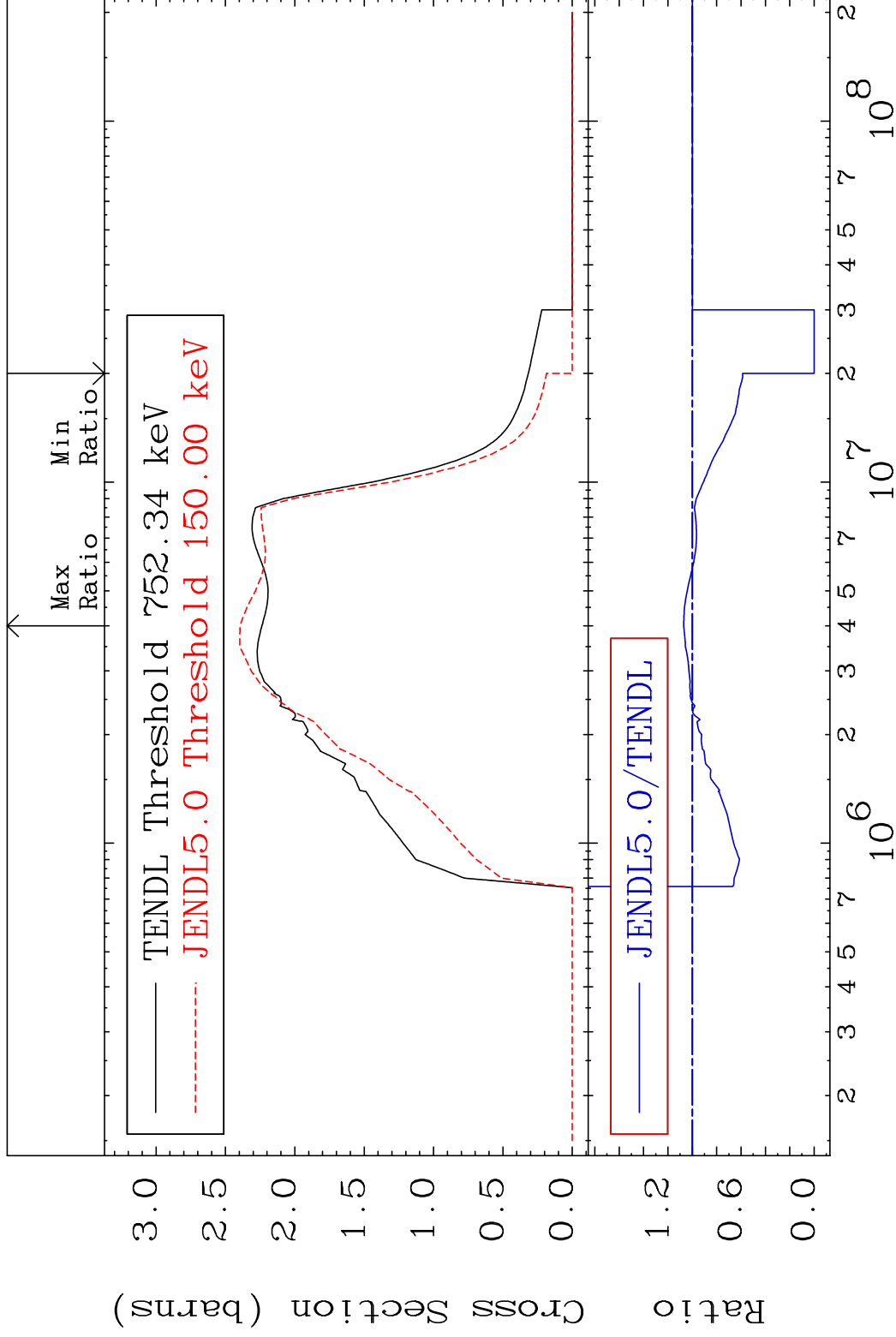


MAT 6231

Inelastic

62-Sm-146

Cross Section -100.0 To 7.094 %



3

Incident Energy (eV)

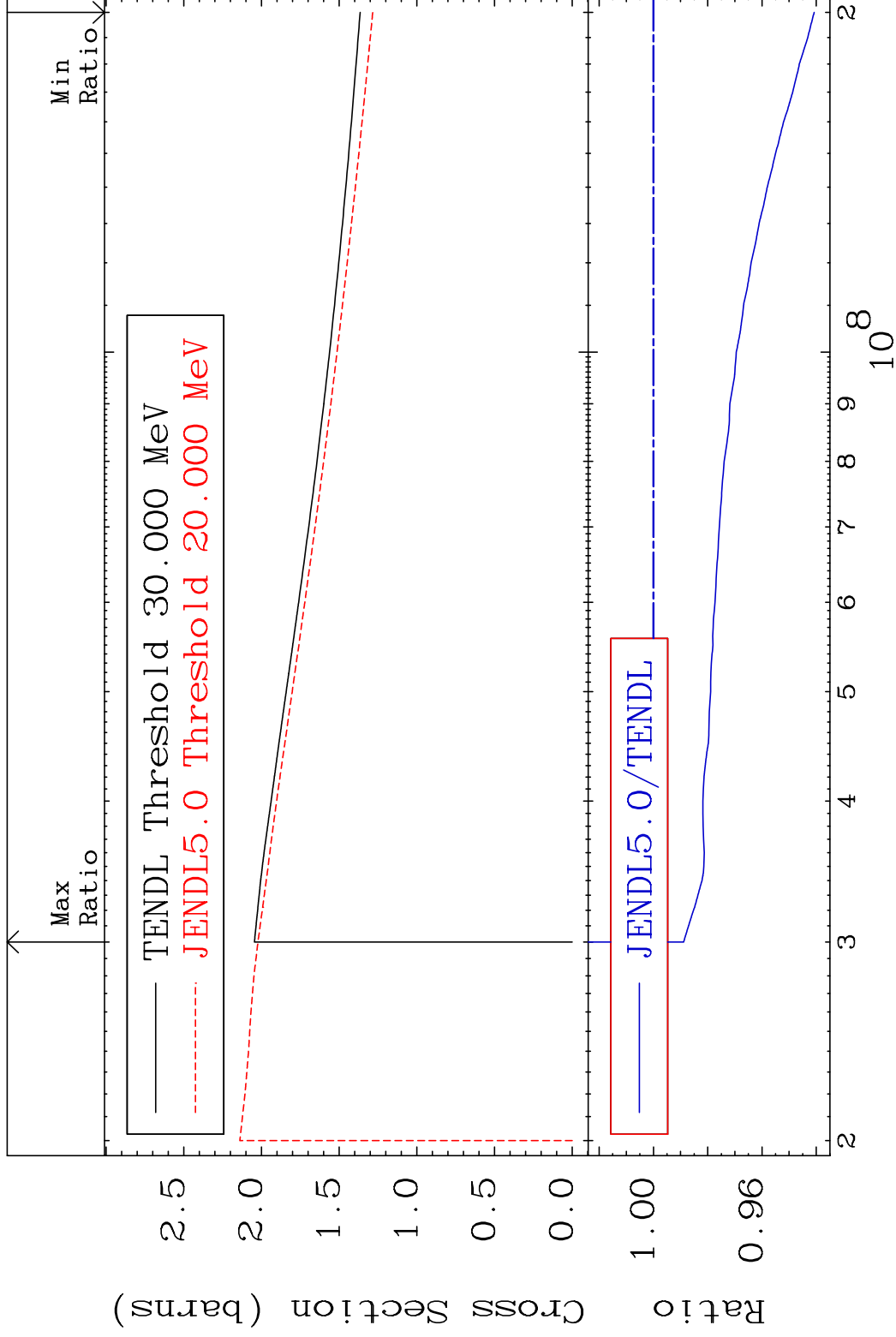
62-Sm-146

MAT 6231

(n, remainder)

62-Sm-146

Cross Section -5.920 To -1.114%



4

Incident Energy (eV)

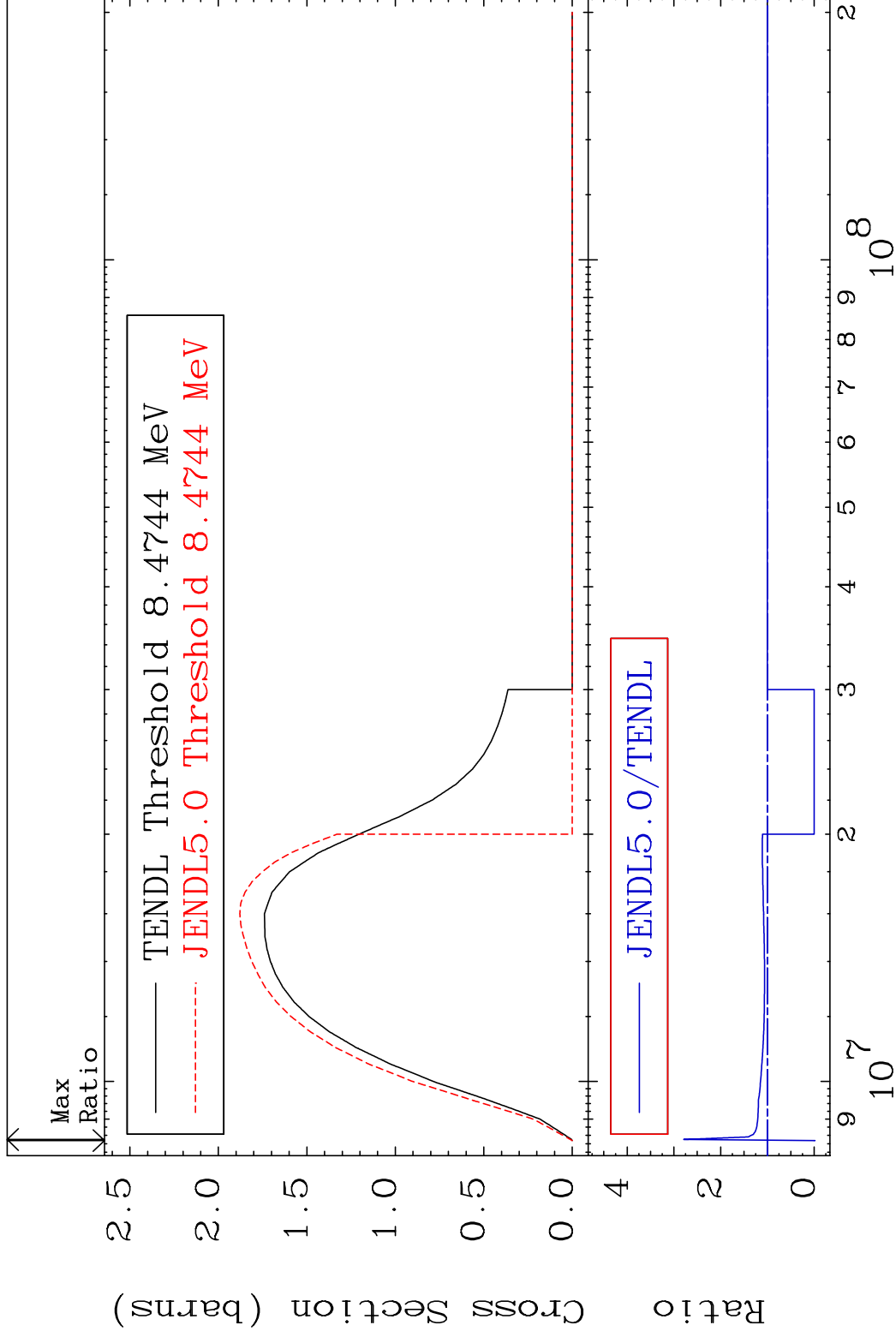
62-Sm-146

MAT 6231

(n,2n)

62-Sm-146

Cross Section -100.0 To 179.1 %



5

Incident Energy (eV)

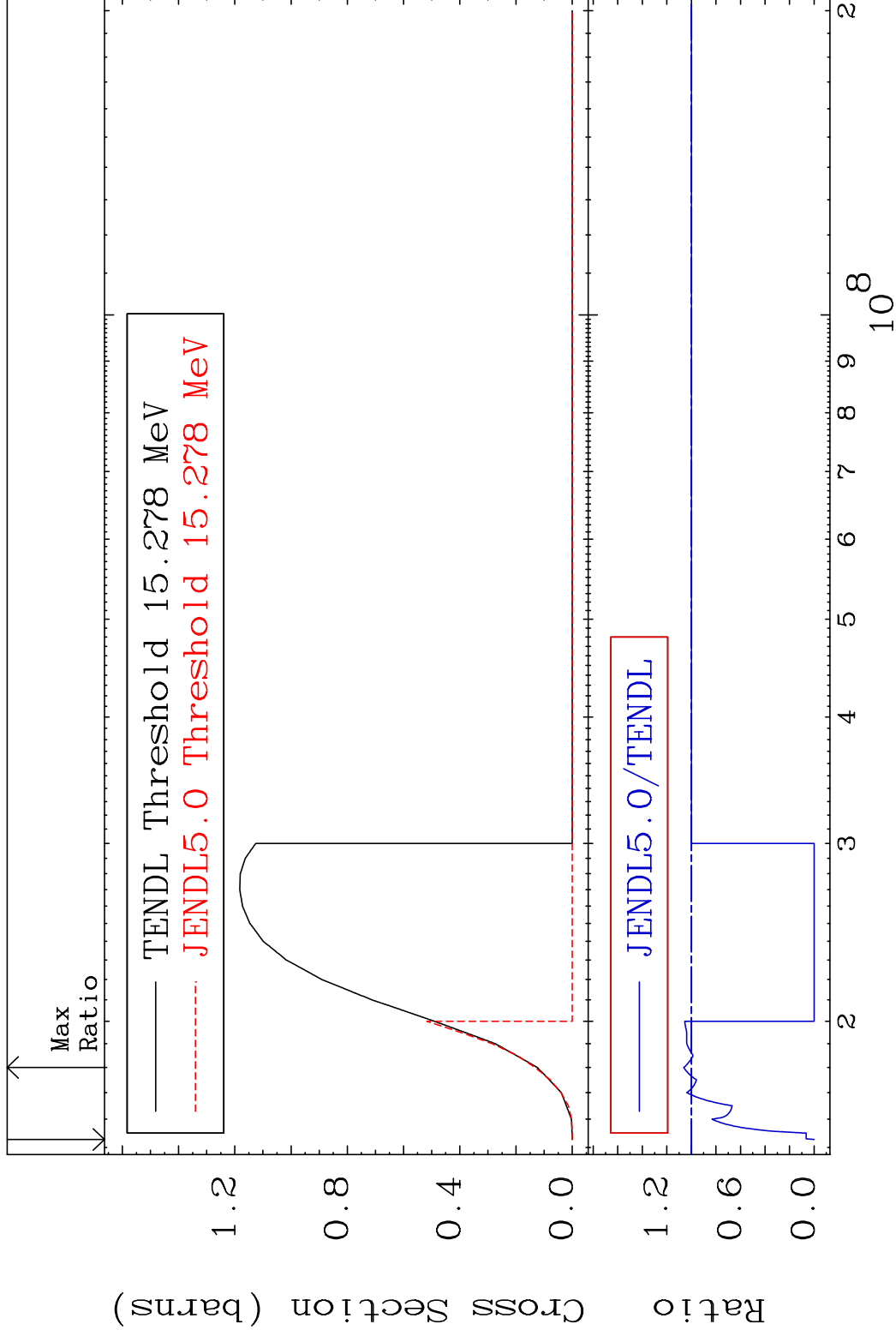
62-Sm-146

MAT 6231

(n,3n)

62-Sm-146

Cross Section -100.0 To 6.294 %



6

Incident Energy (eV)

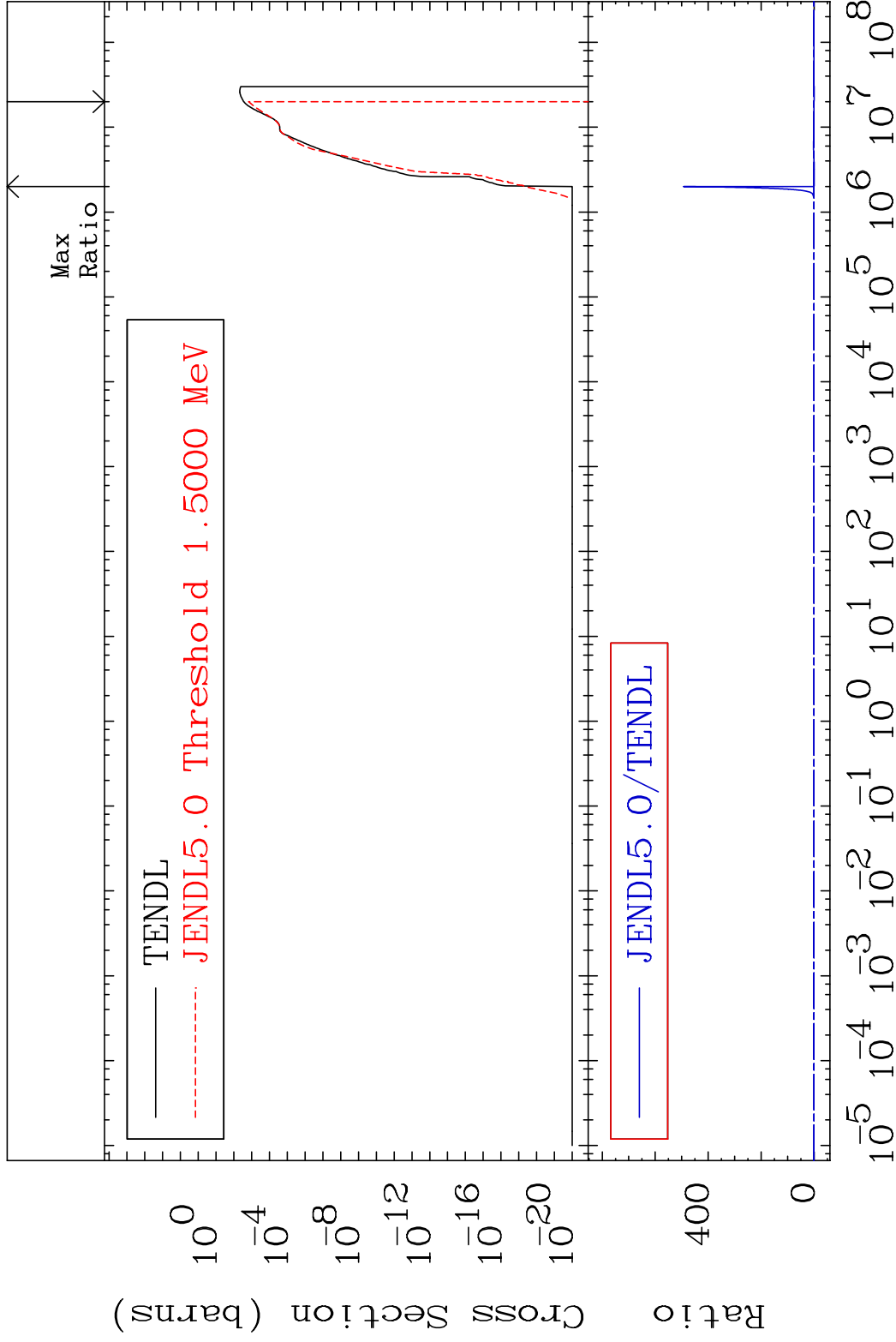
62-Sm-146

MAT 6231

(n, n') α

62-Sm-146

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

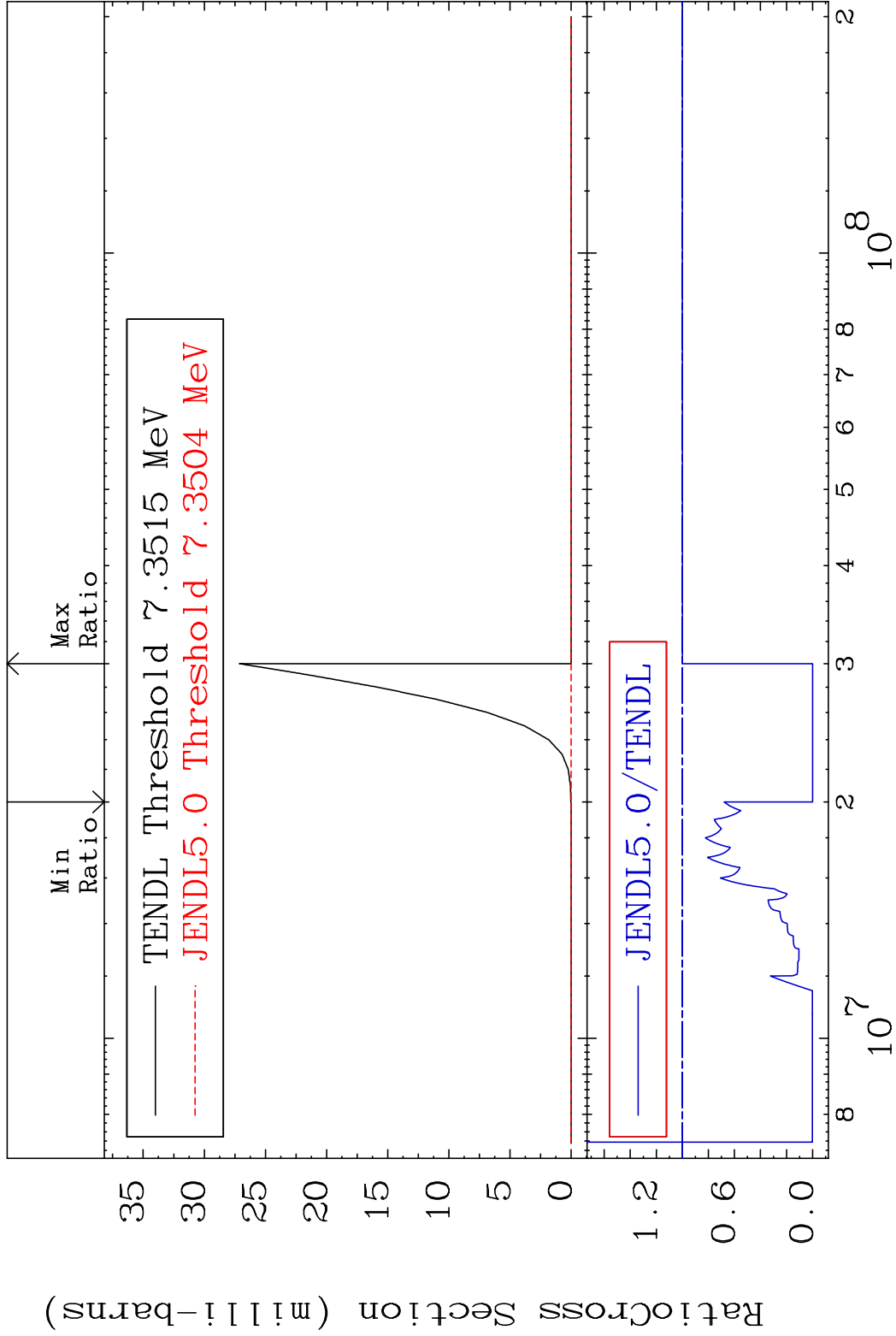
62-Sm-146

MAT 6231

(n,2n) α

62-Sm-146

Cross Section -100.0 To 0.000 %



8

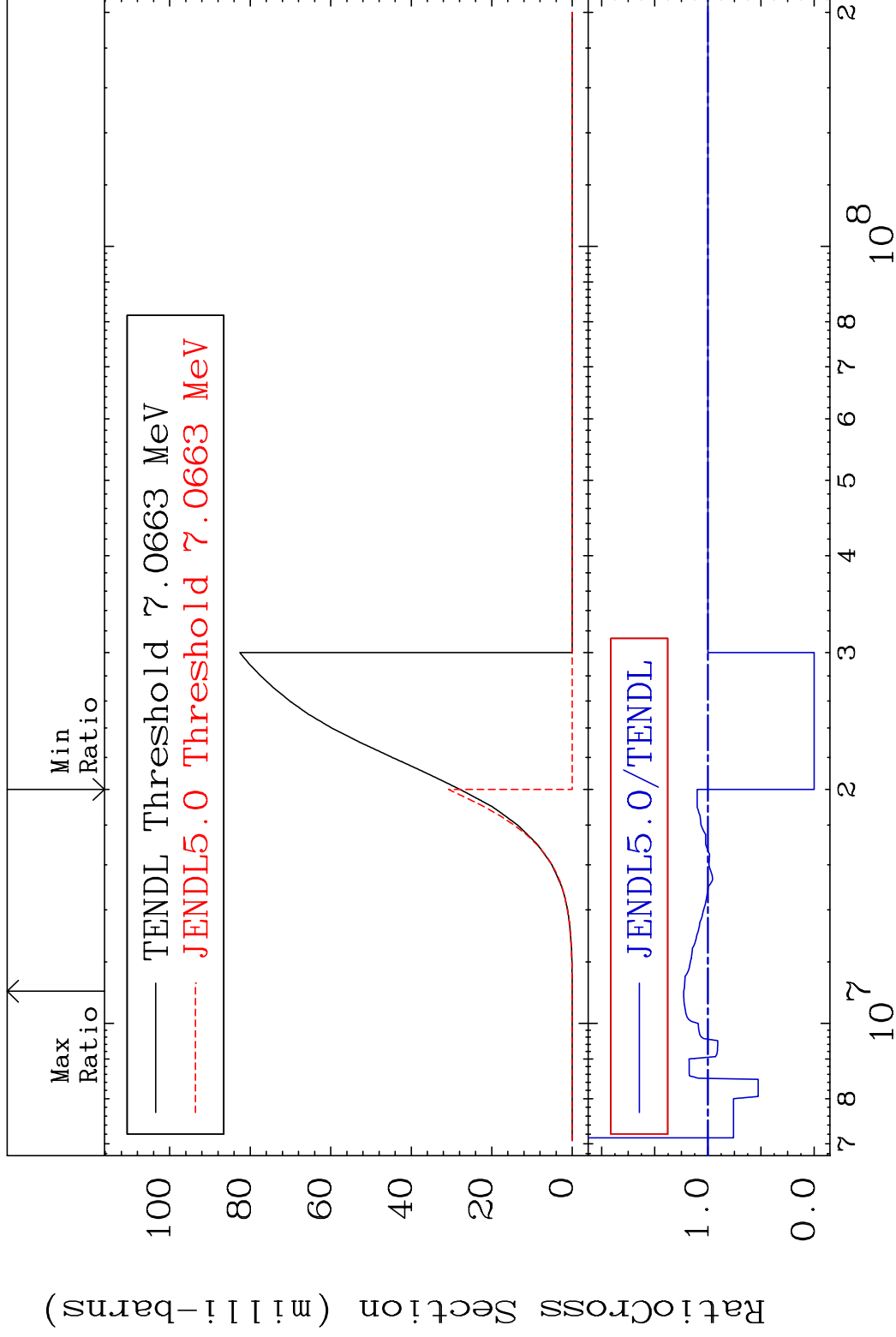
Incident Energy (eV)

62-Sm-146

MAT 6231

(n, n') p 62-Sm-146

Cross Section -100.0 To 22.81 %



9

Incident Energy (eV)

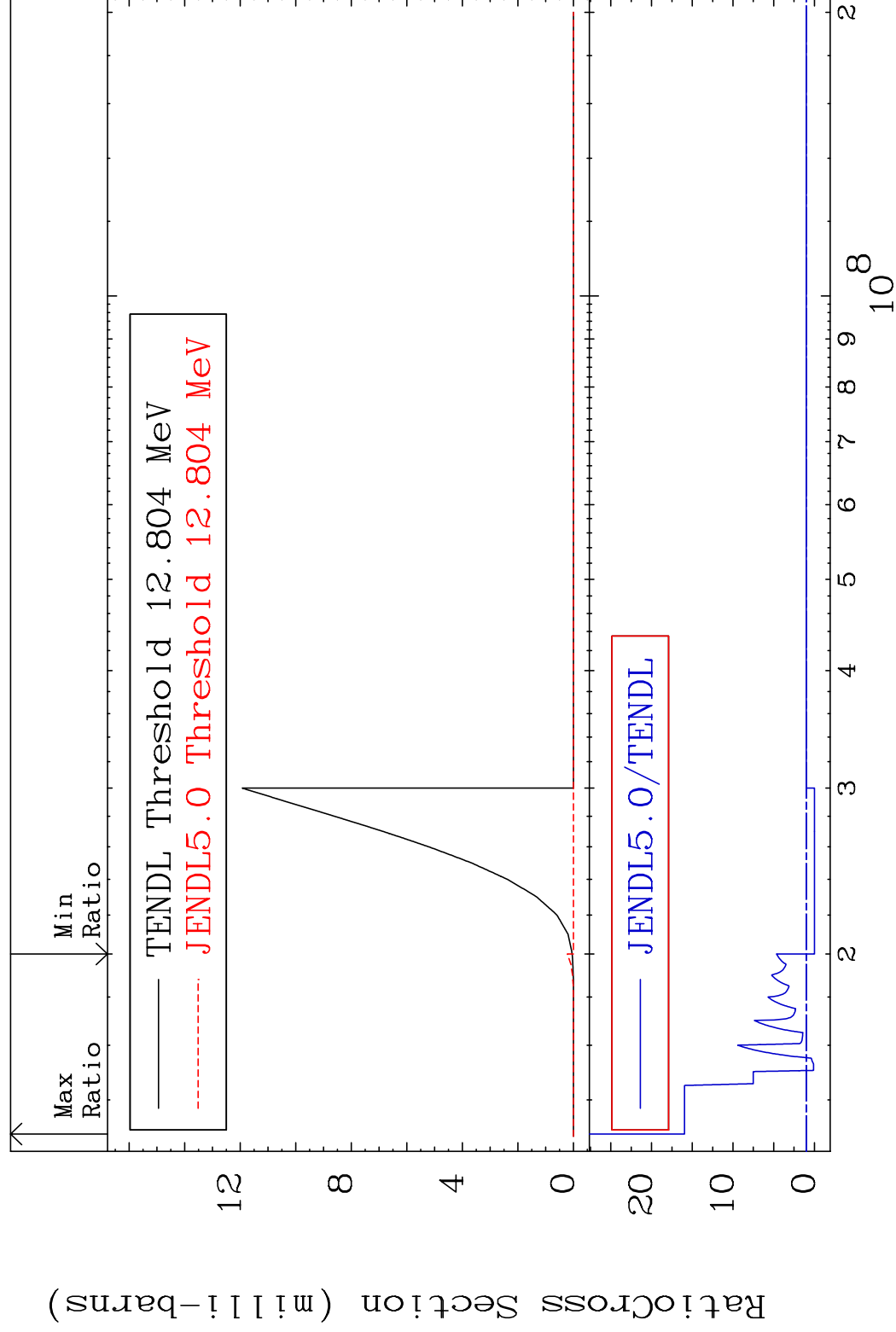
62-Sm-146

MAT 6231

(n, n') d

62-Sm-146

Cross Section -100.0 To 1496. %



10

Incident Energy (eV)

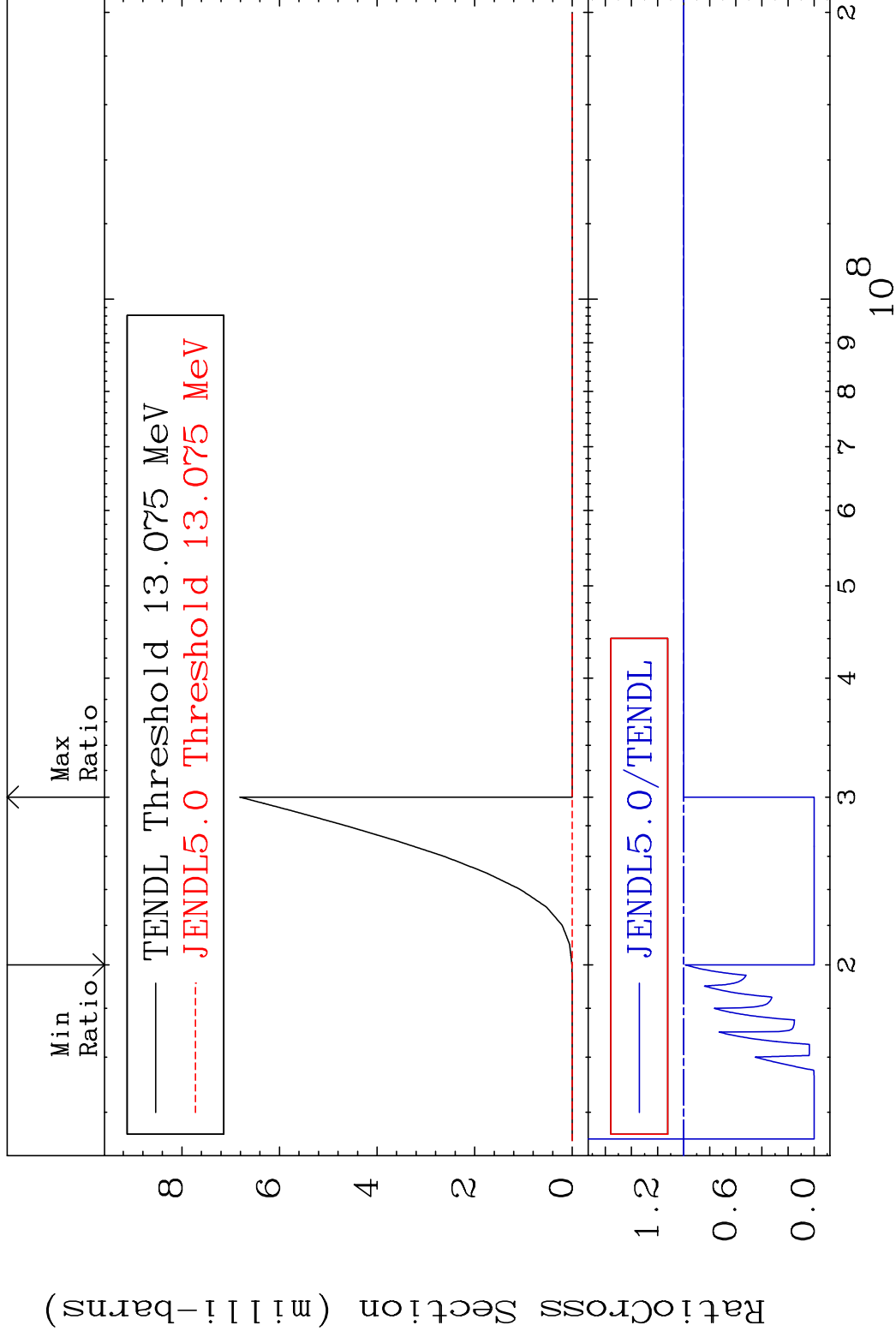
62-Sm-146

MAT 6231

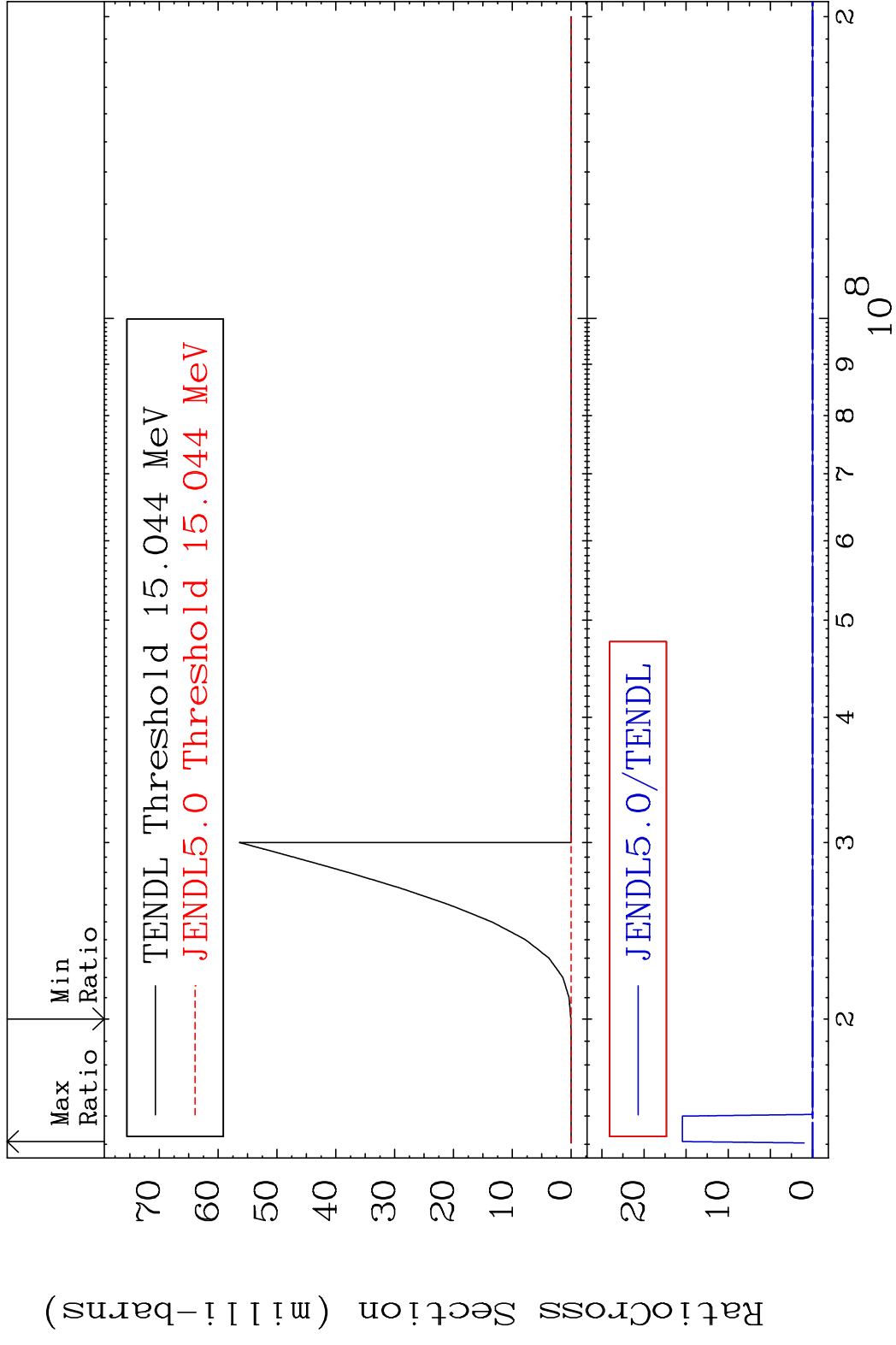
(n, n') t

62-Sm-146

Cross Section -100.0 To 0.000 %

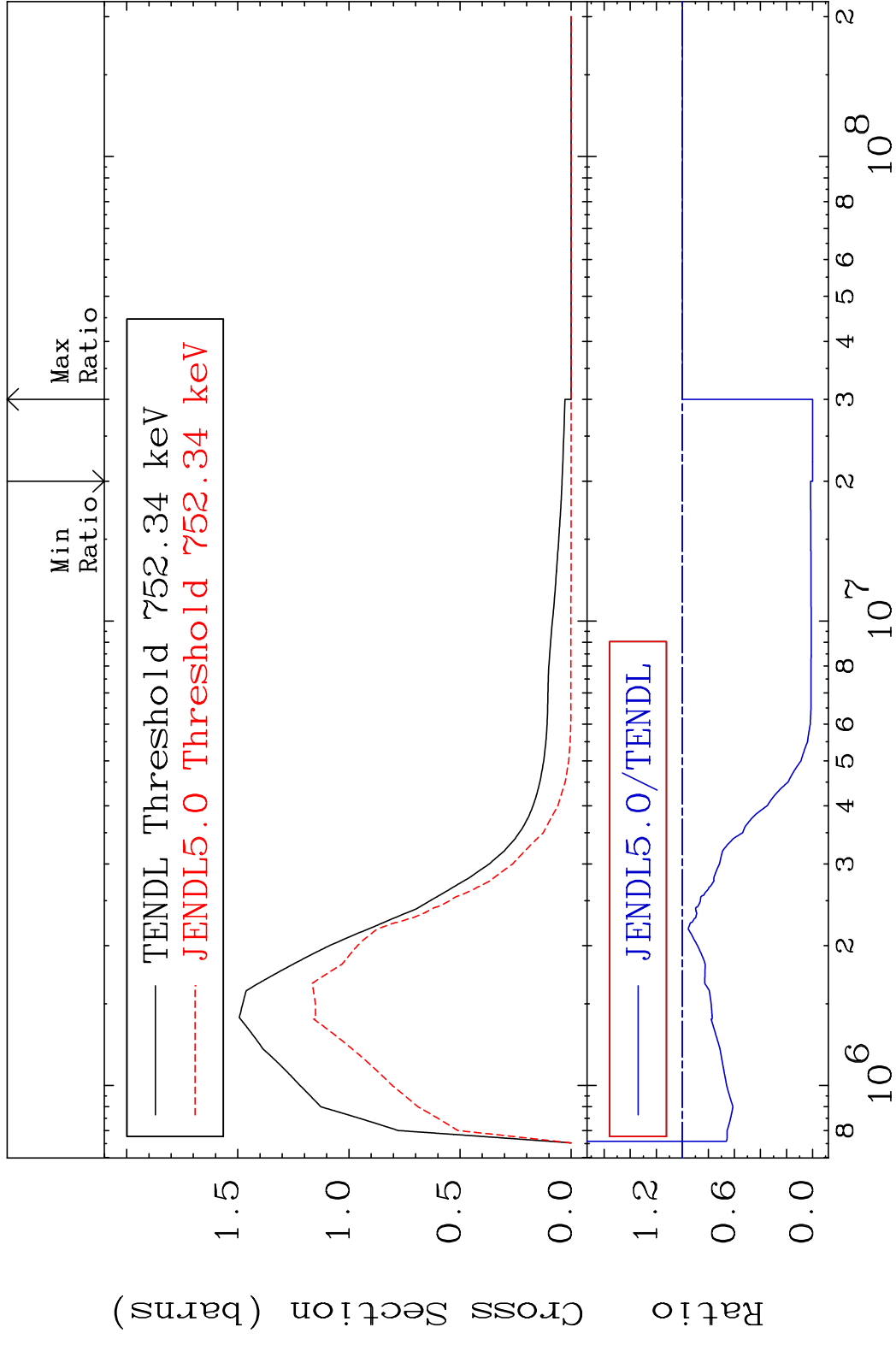


MAT 6231 (n,2n) p 62-Sm-146
 Cross Section -100.0 To 9999. %

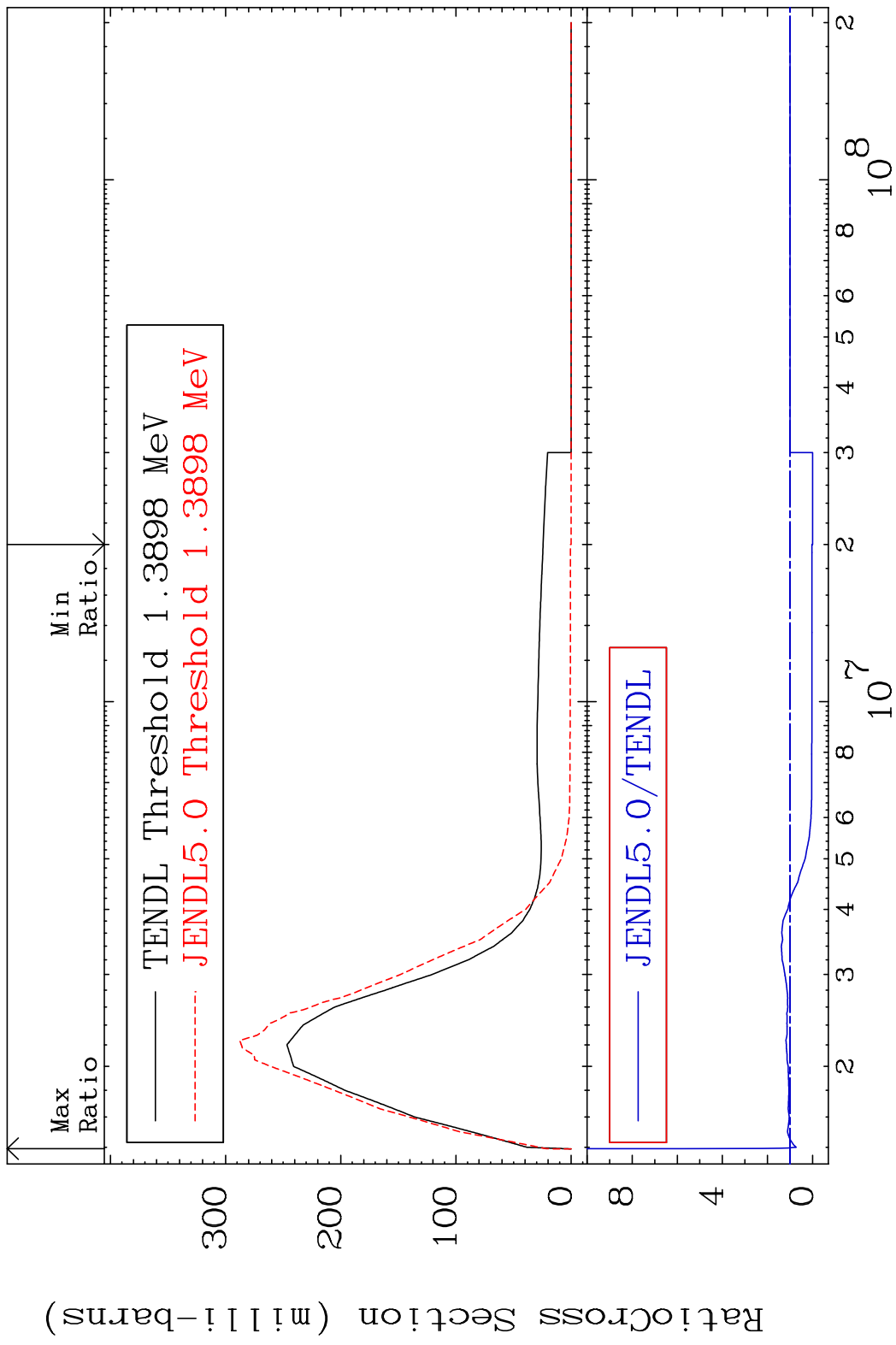


12 Incident Energy (eV) 62-Sm-146

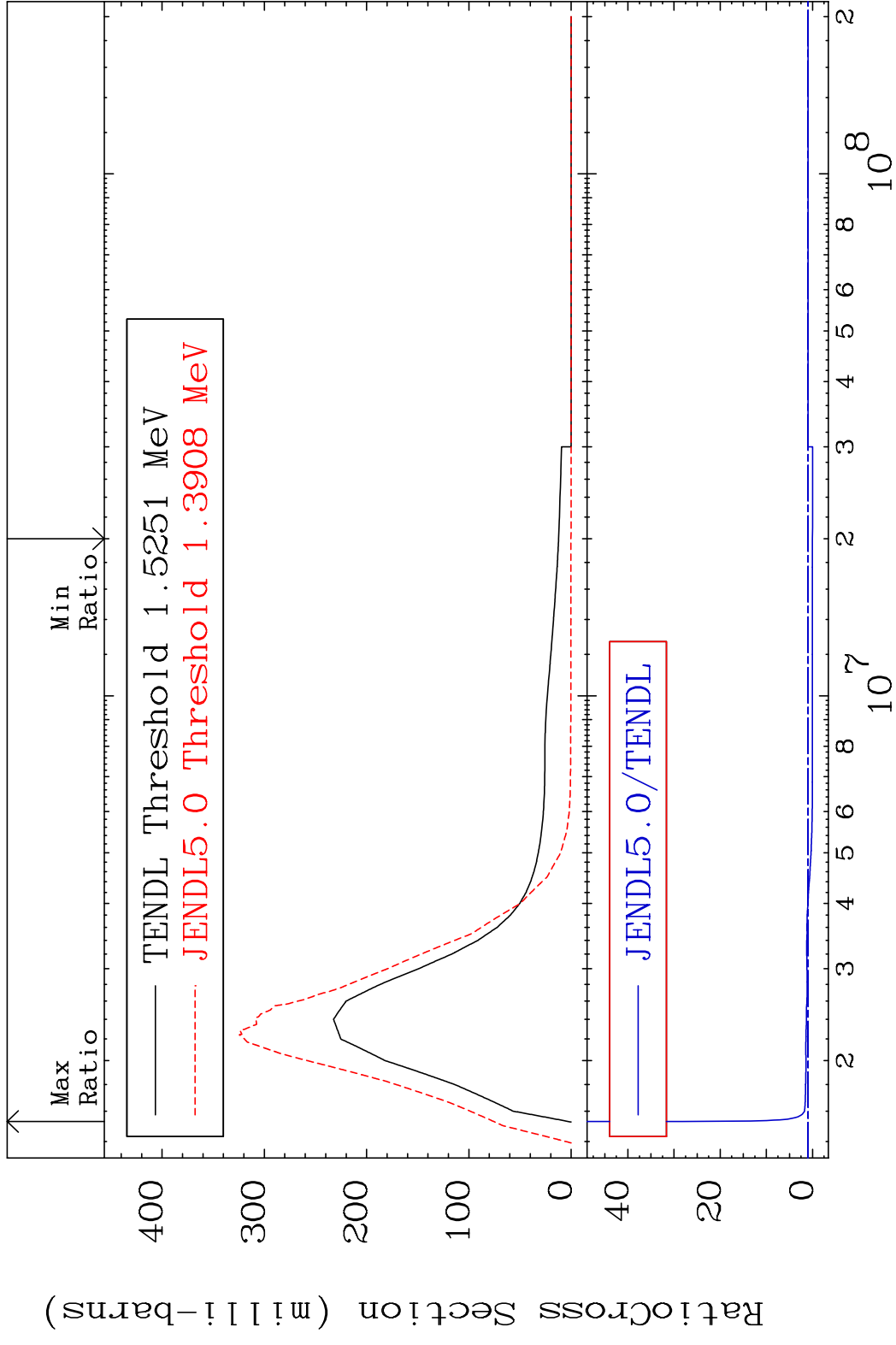
MAT 6231 MT= 51 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 0.000 %



MAT 6231 MT= 52 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 477.4 %

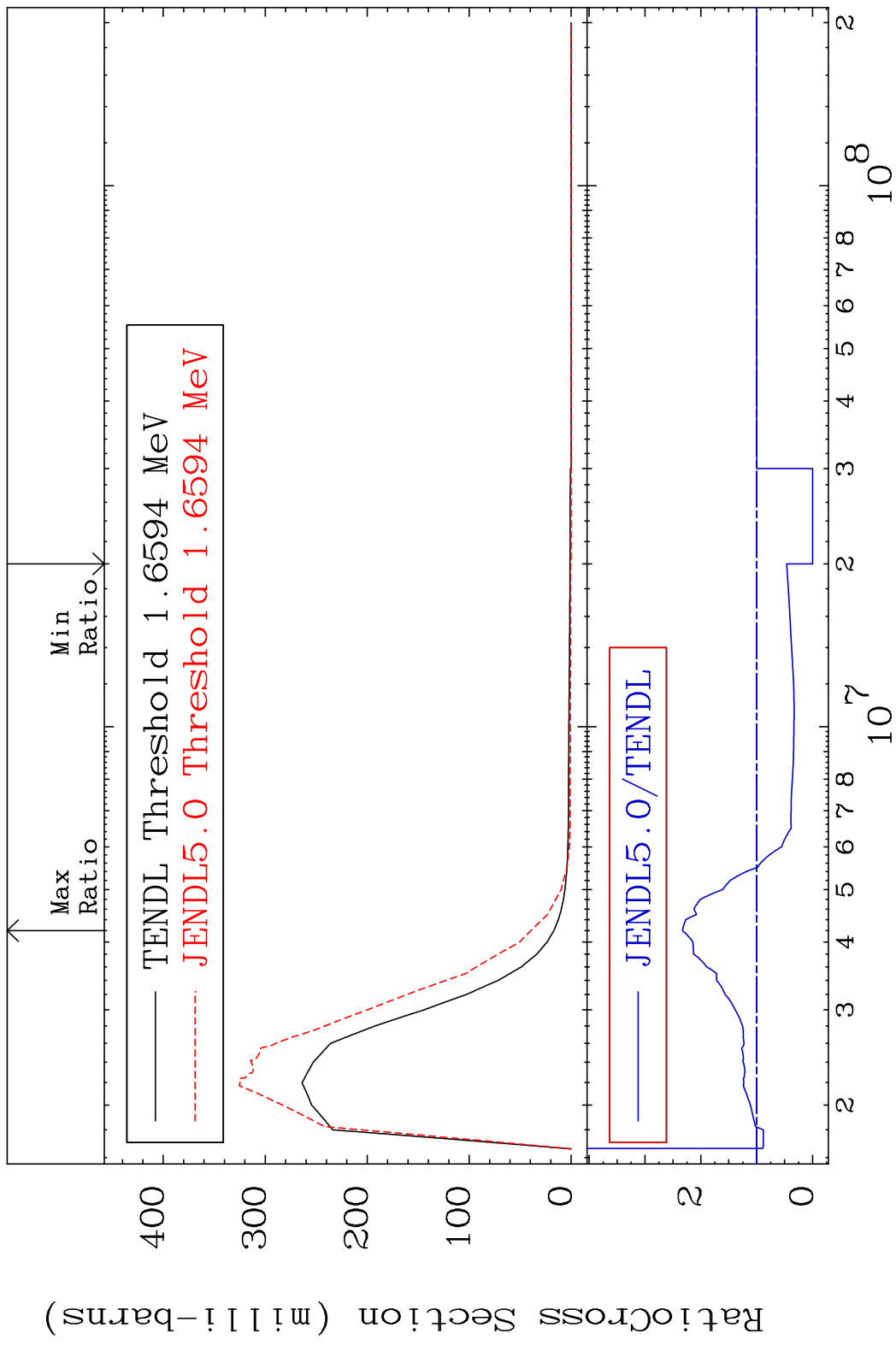


MAT 6231 MT= 53 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 2720. %

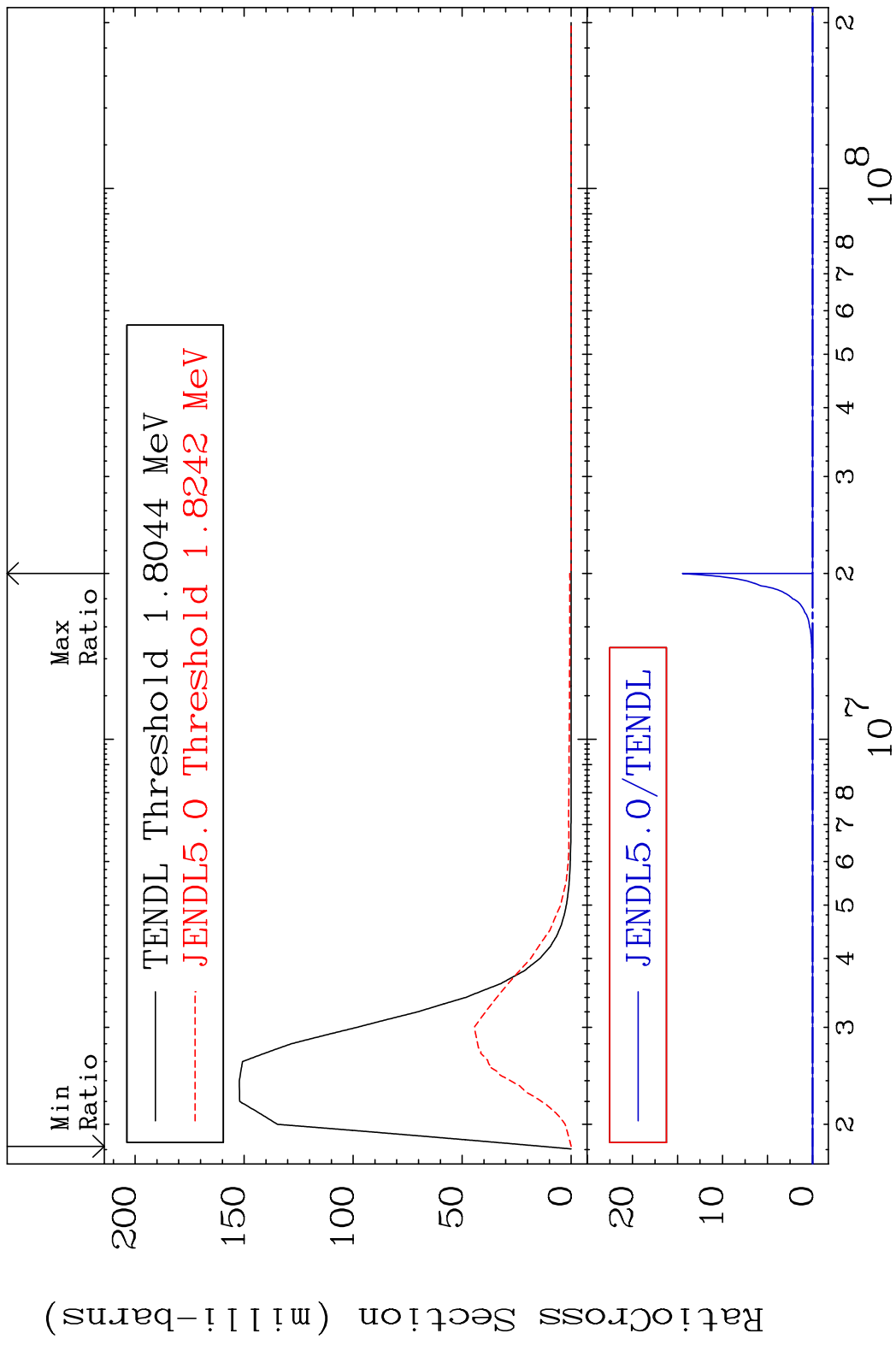


15 Incident Energy (eV) 62-Sm-146

MAT 6231 MT= 54 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 133.2 %

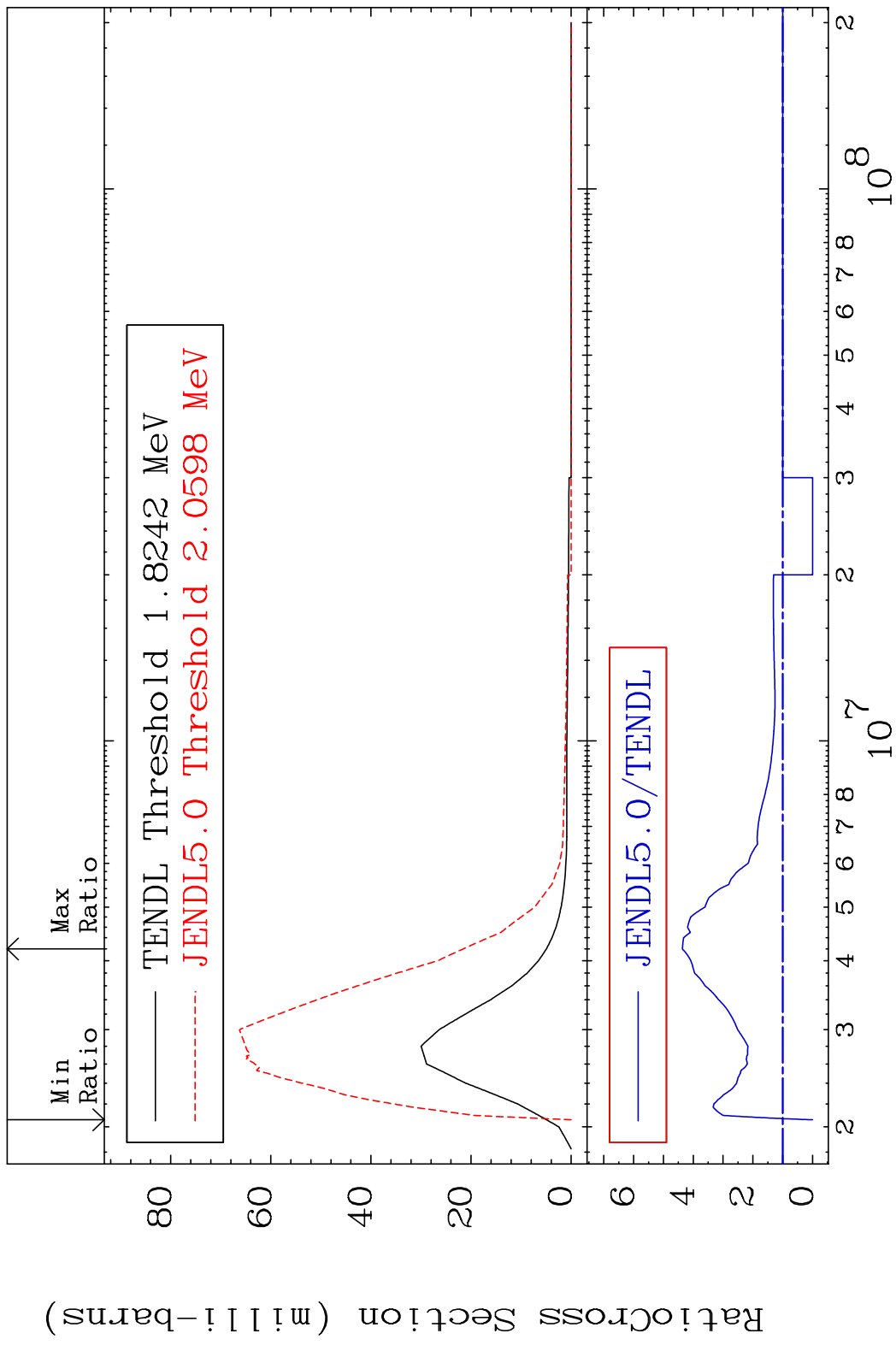


MAT 6231 MT= 55 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %

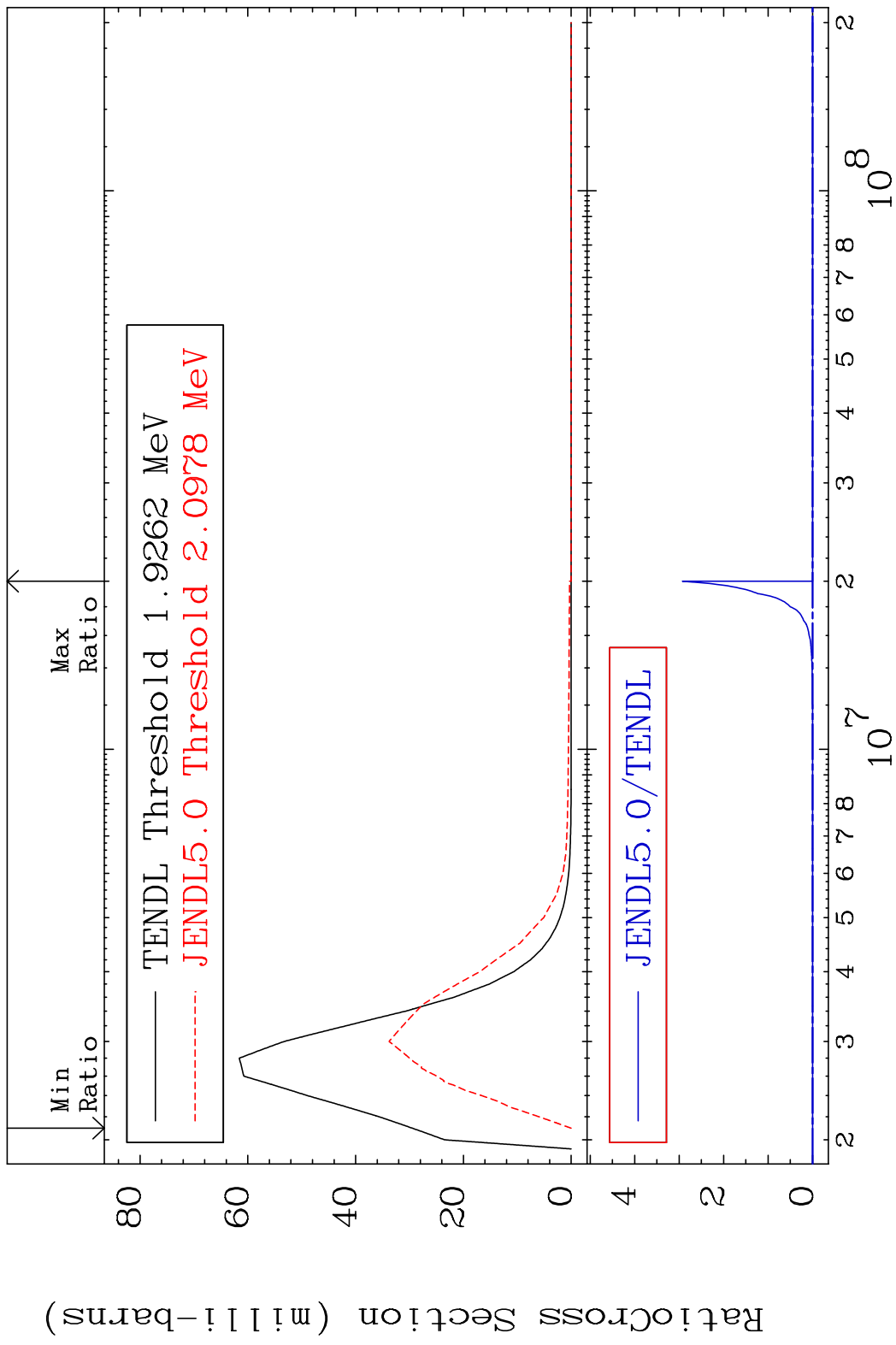


17 Incident Energy (eV) 62-Sm-146

MAT 6231 MT= 56 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 336.6 %

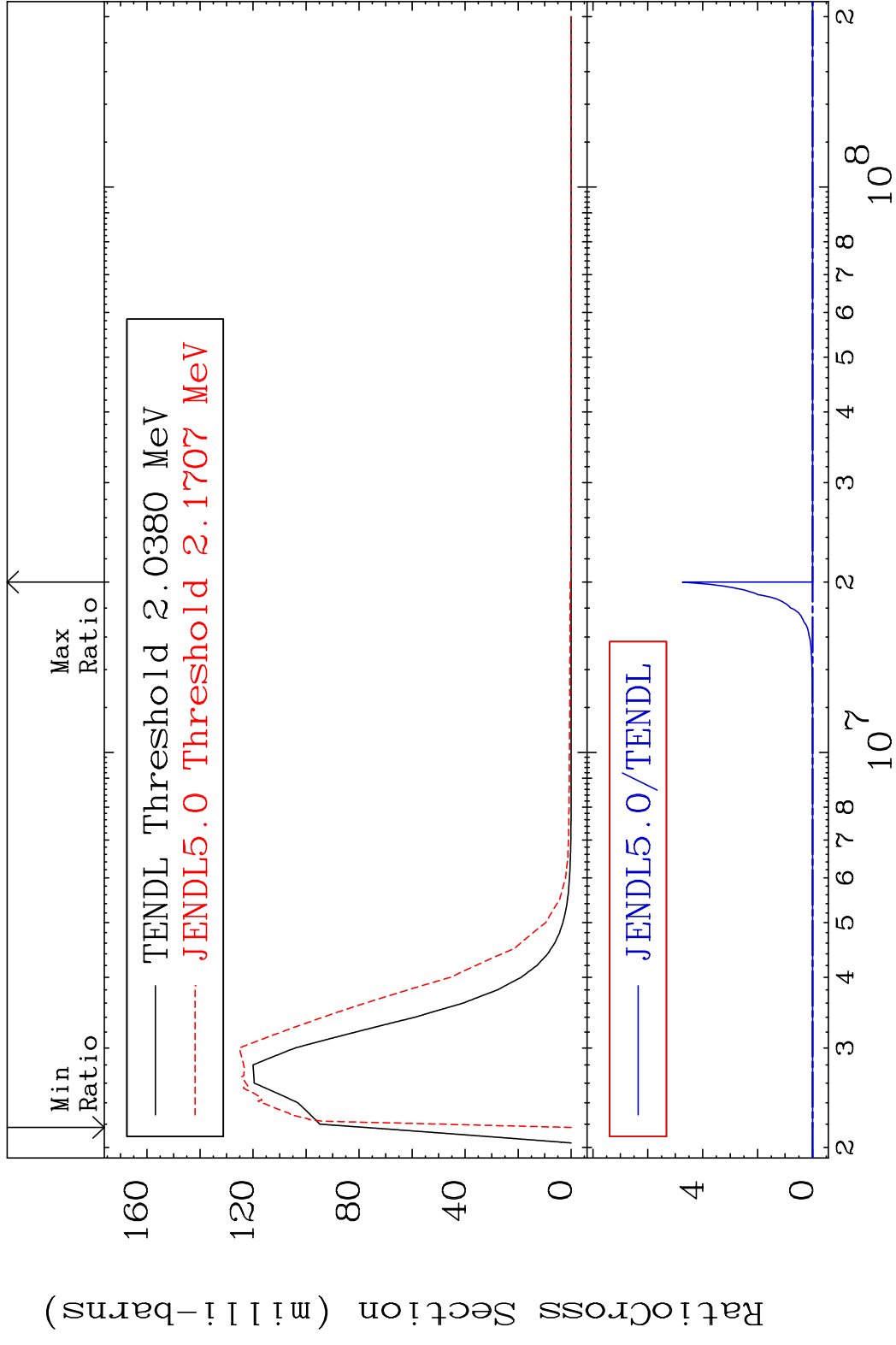


MAT 6231 MT= 57 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %

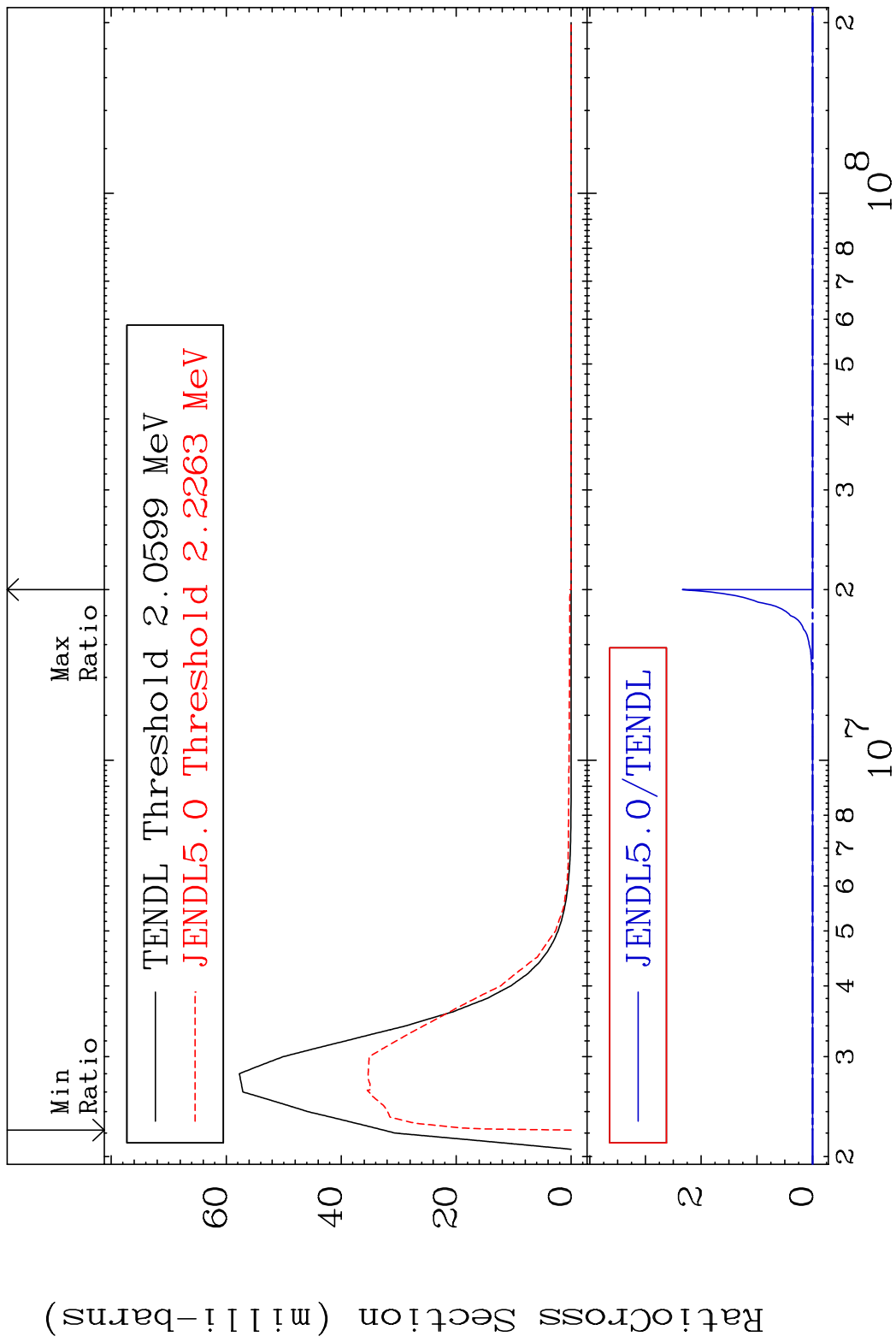


19 19 Incident Energy (eV) 62-Sm-146

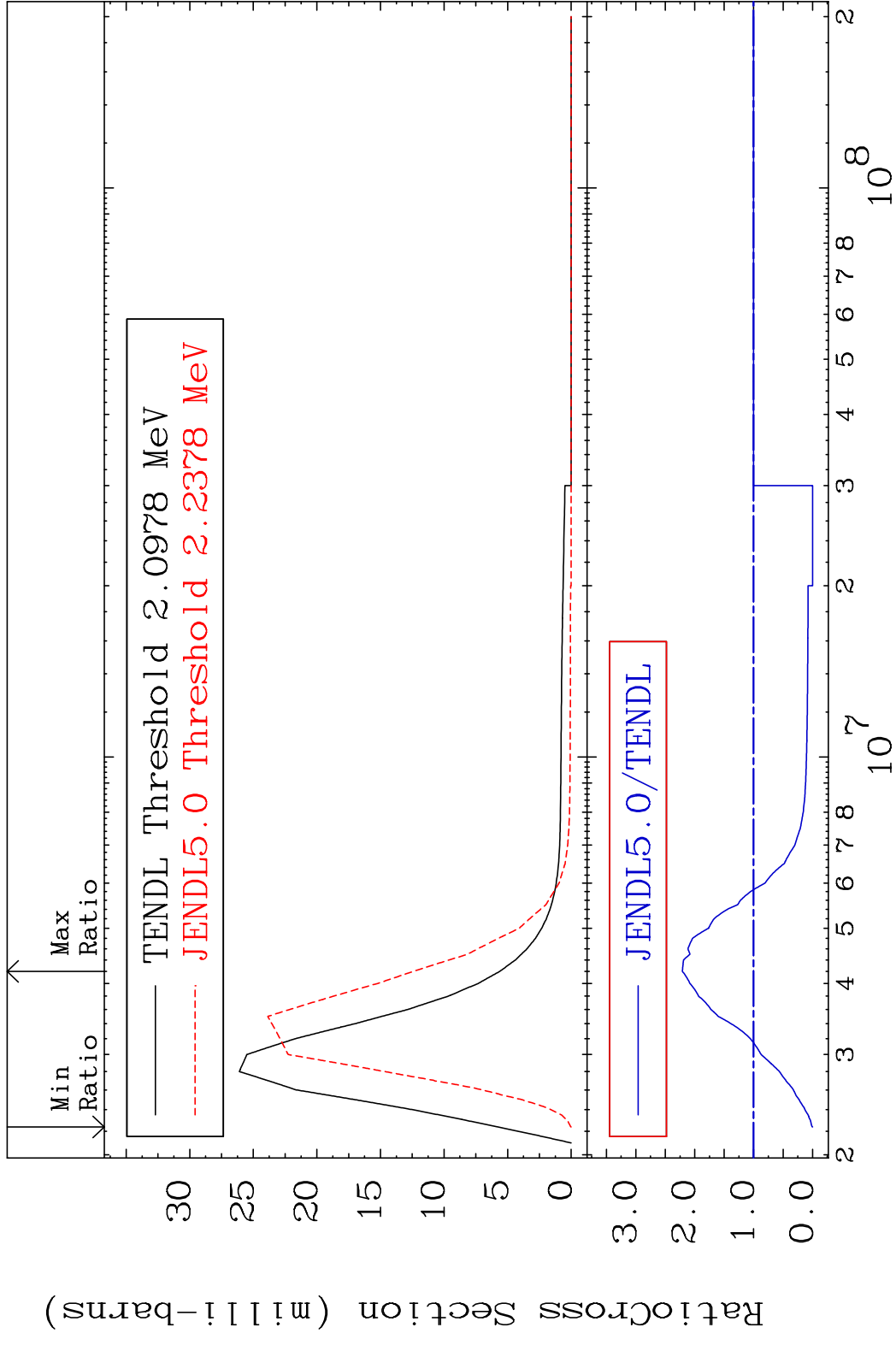
MAT 6231 MT= 58 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



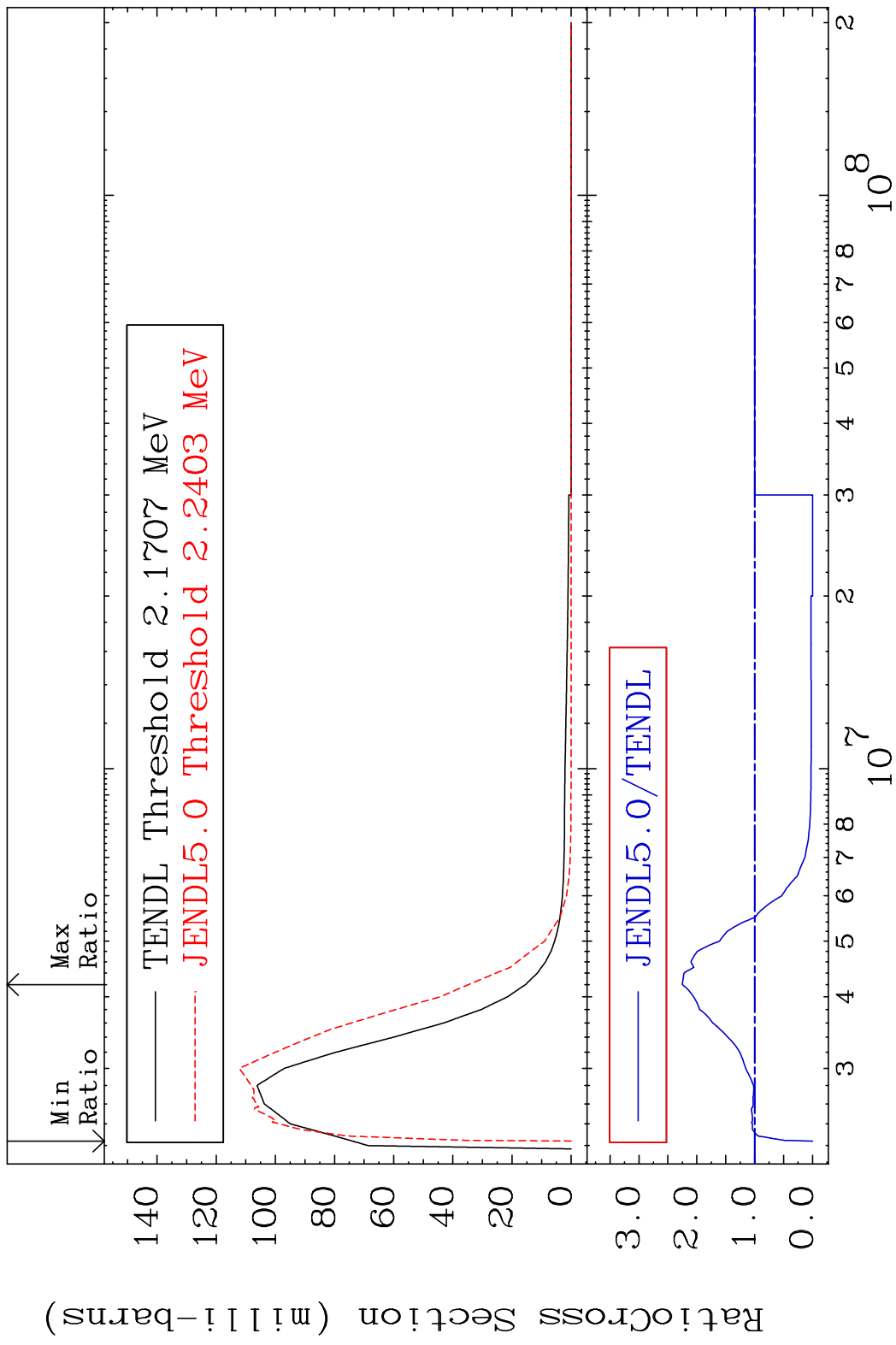
MAT 6231 MT= 59 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



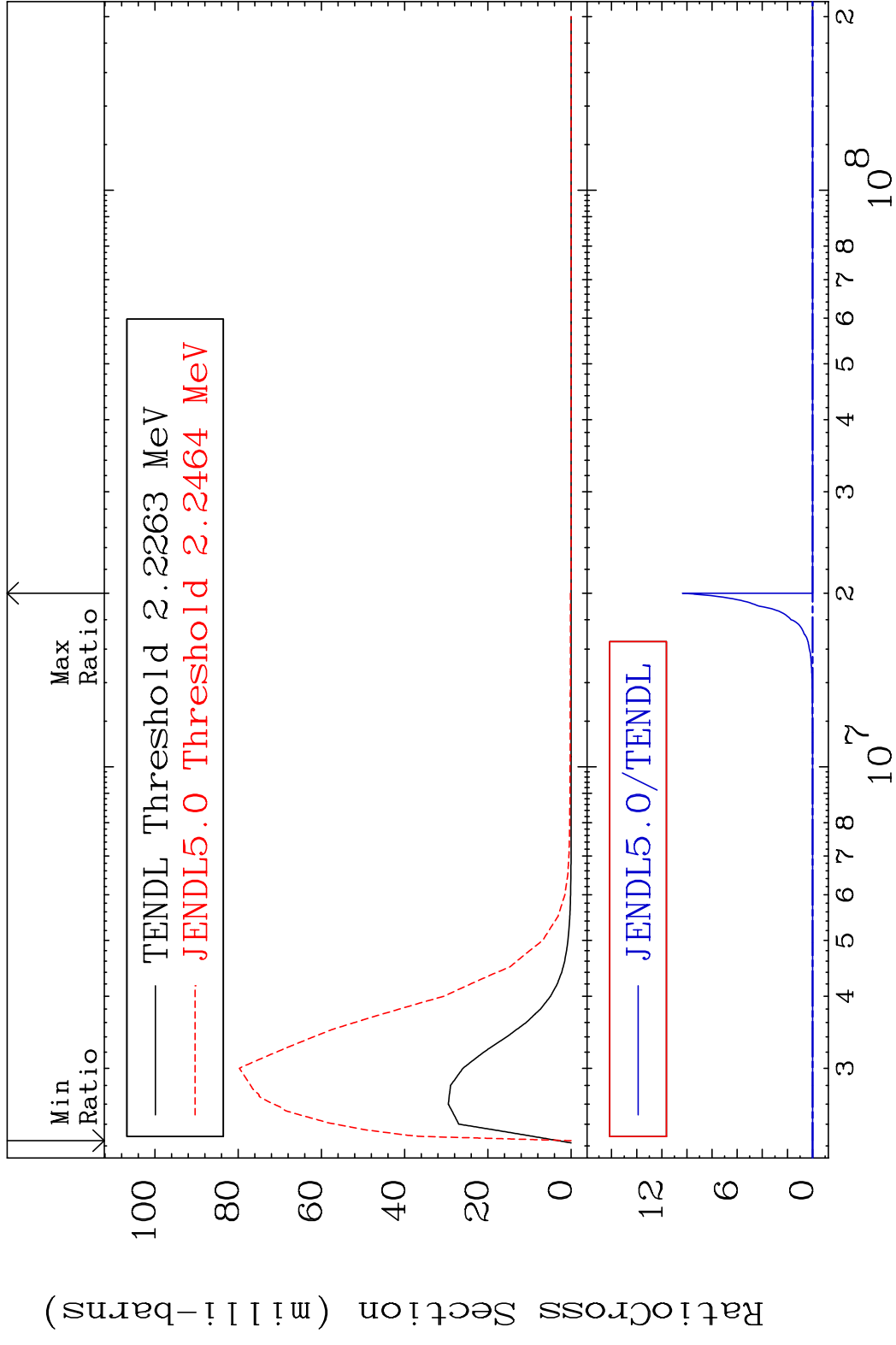
MAT 6231 MT= 60 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 121.0 %



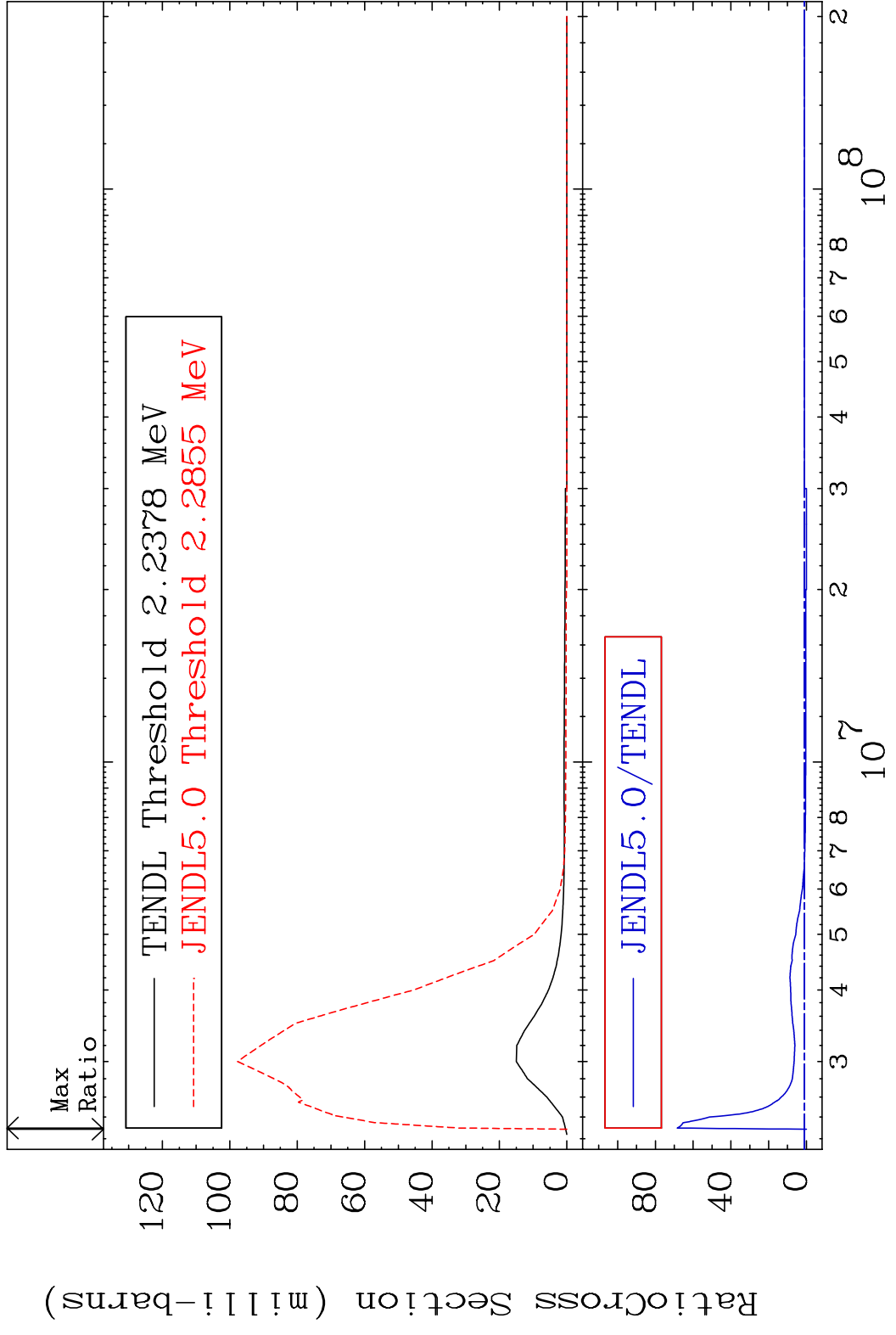
MAT 6231 MT= 61 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 125.0 %



MAT 6231 MT= 62 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %

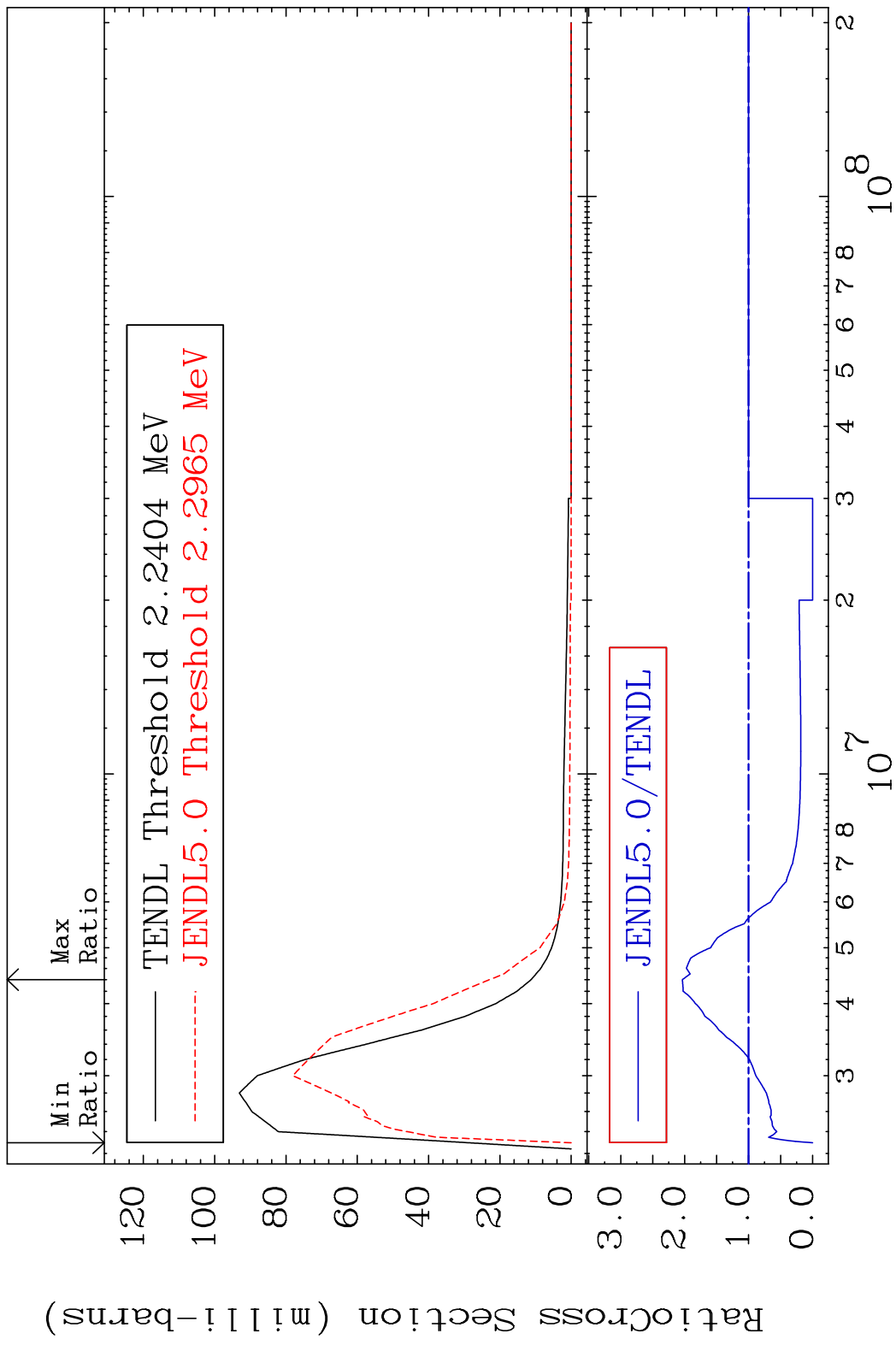


MAT 6231 MT= 63 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 6746. %

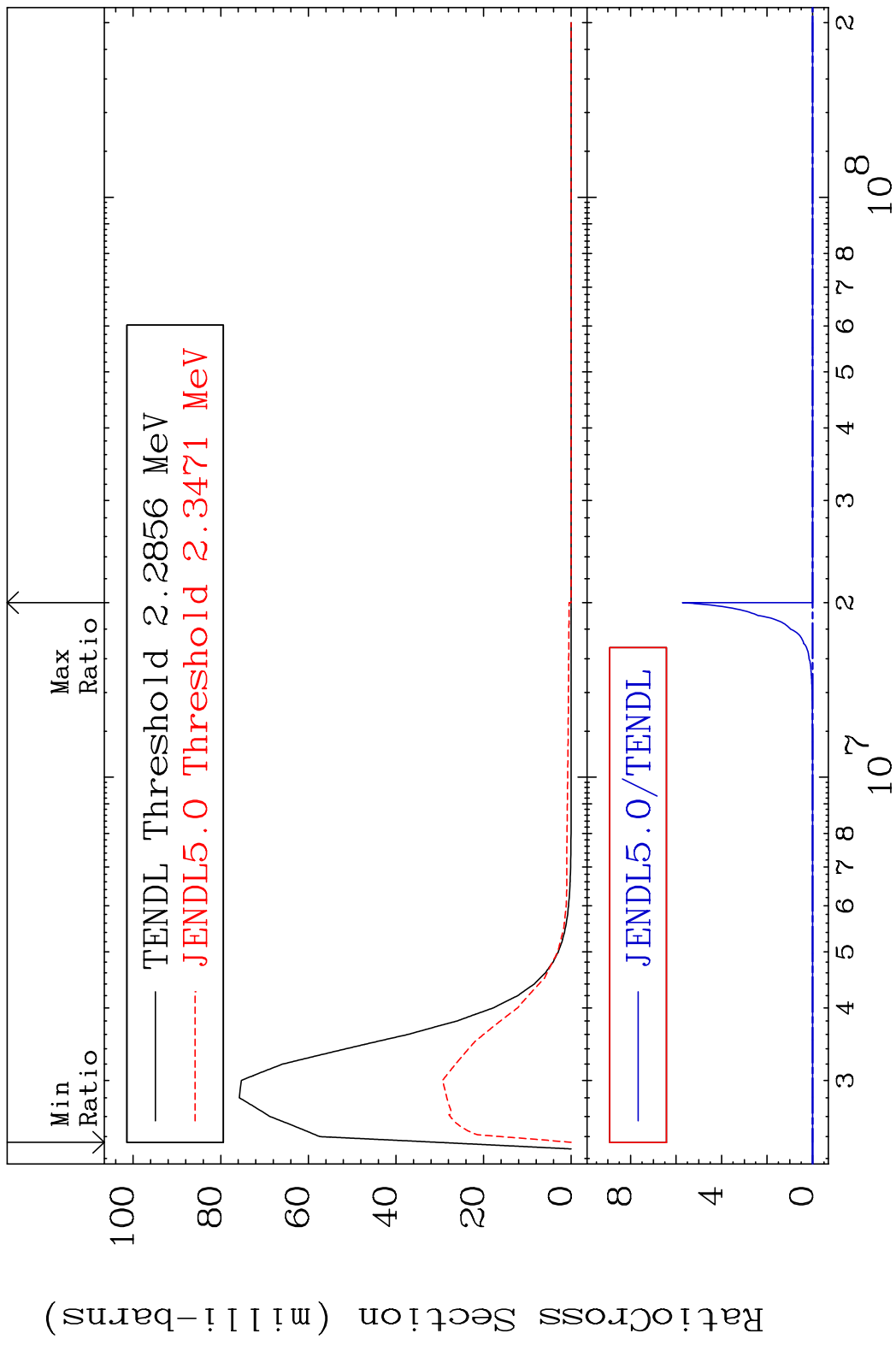


25 Incident Energy (eV) 62-Sm-146

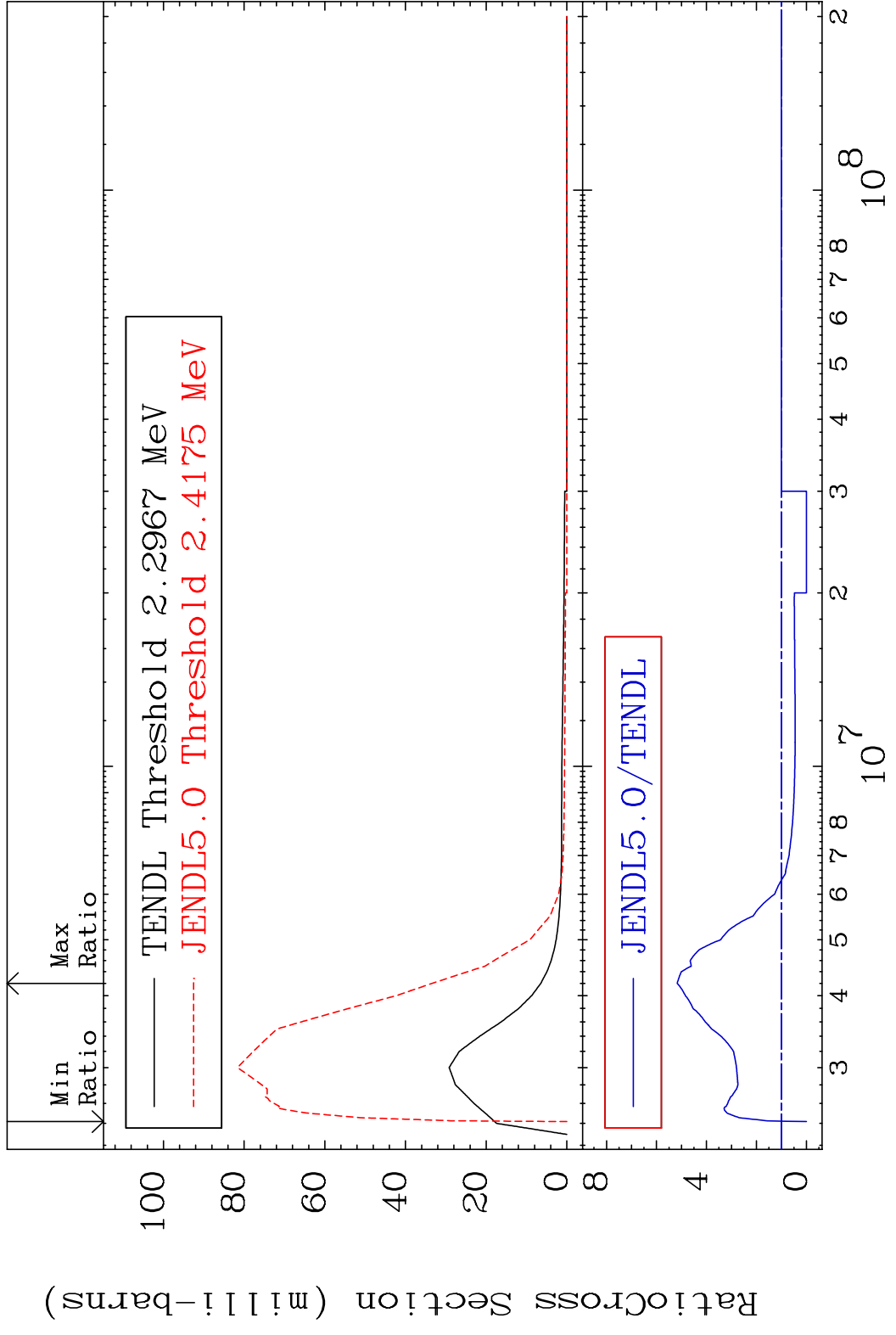
MAT 6231 MT= 64 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 103.6 %



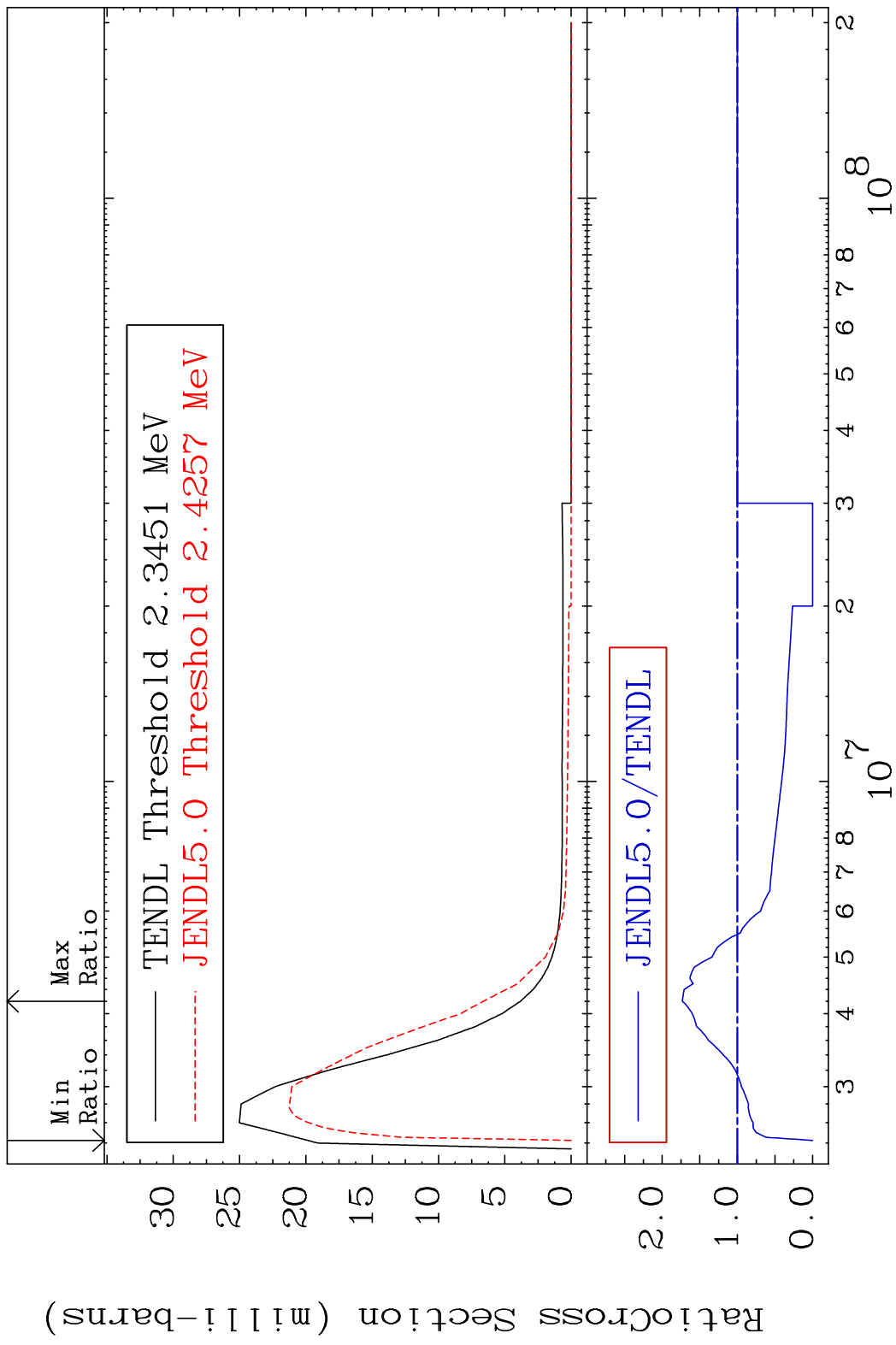
MAT 6231 MT= 65 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



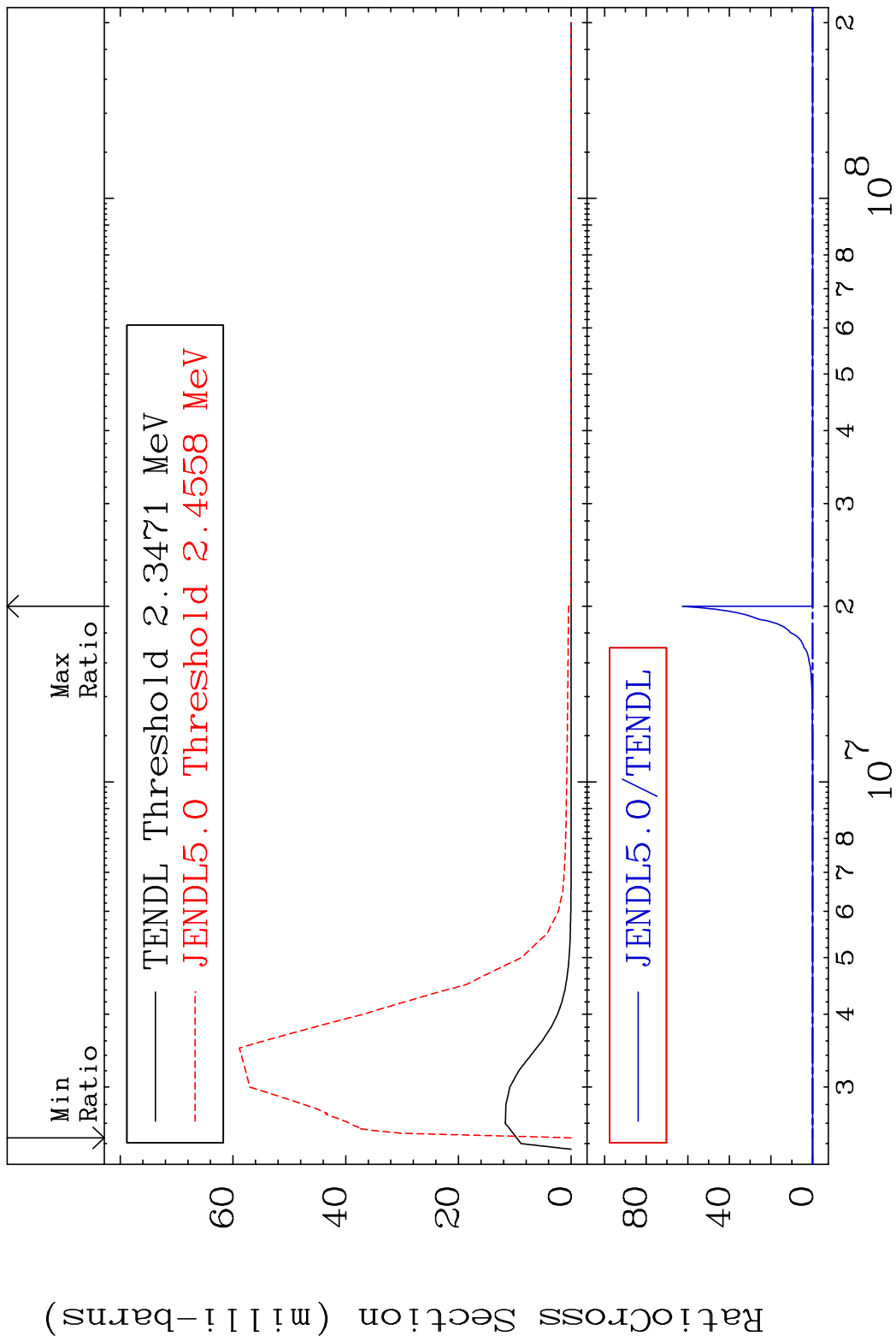
MAT 6231 MT= 66 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 417.1 %



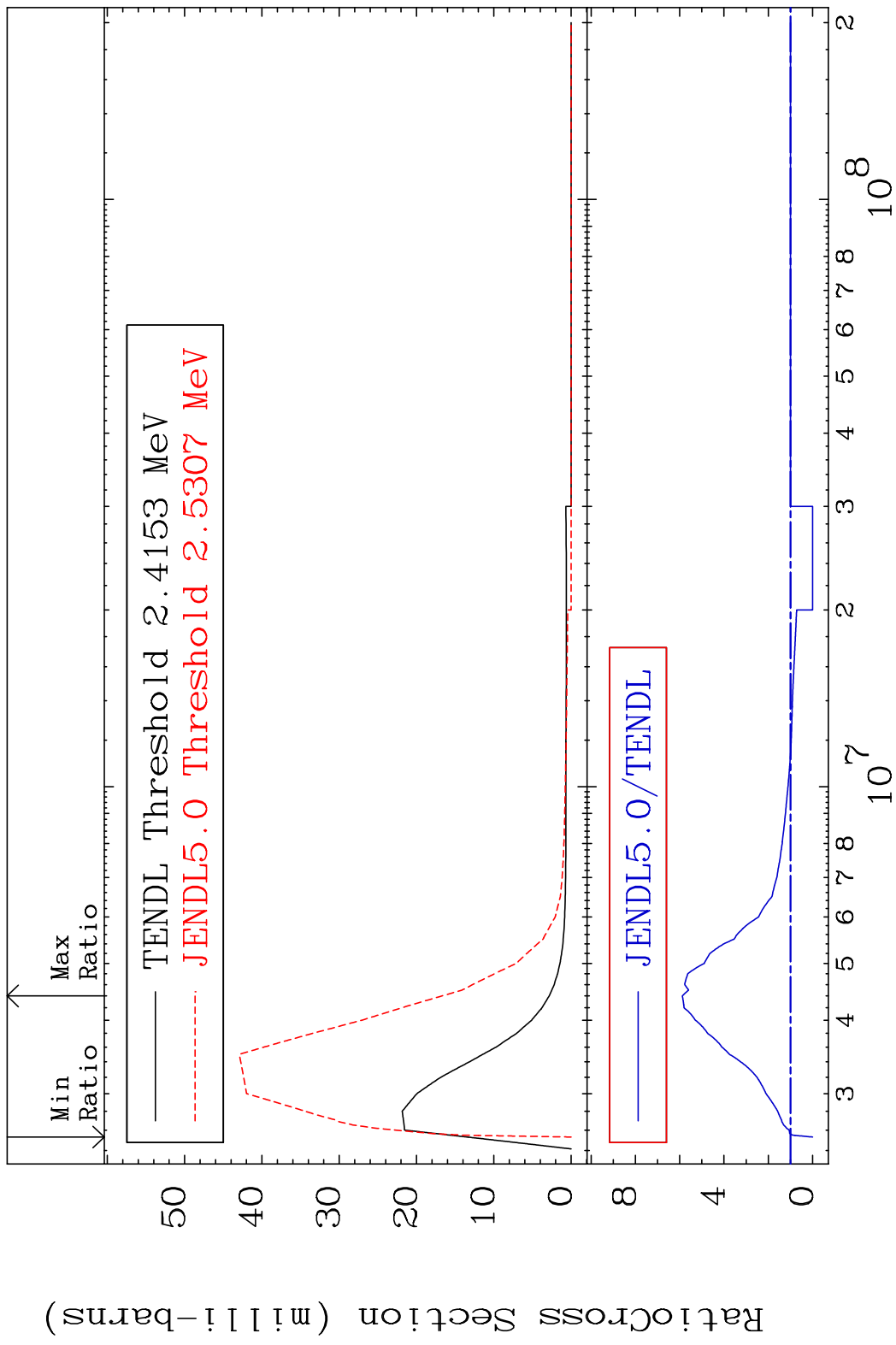
MAT 6231 MT= 67 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 73.17 %



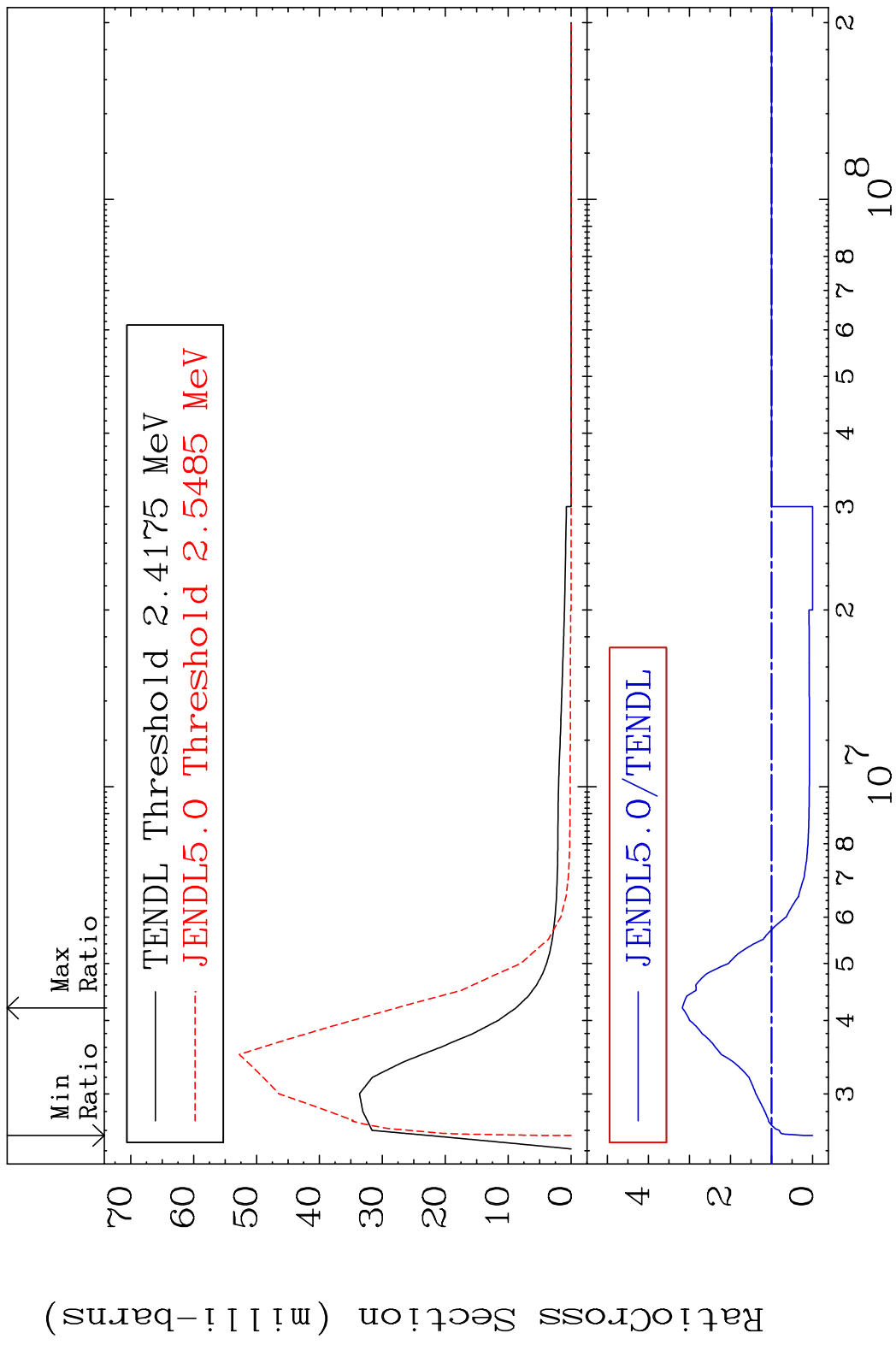
MAT 6231 MT= 68 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



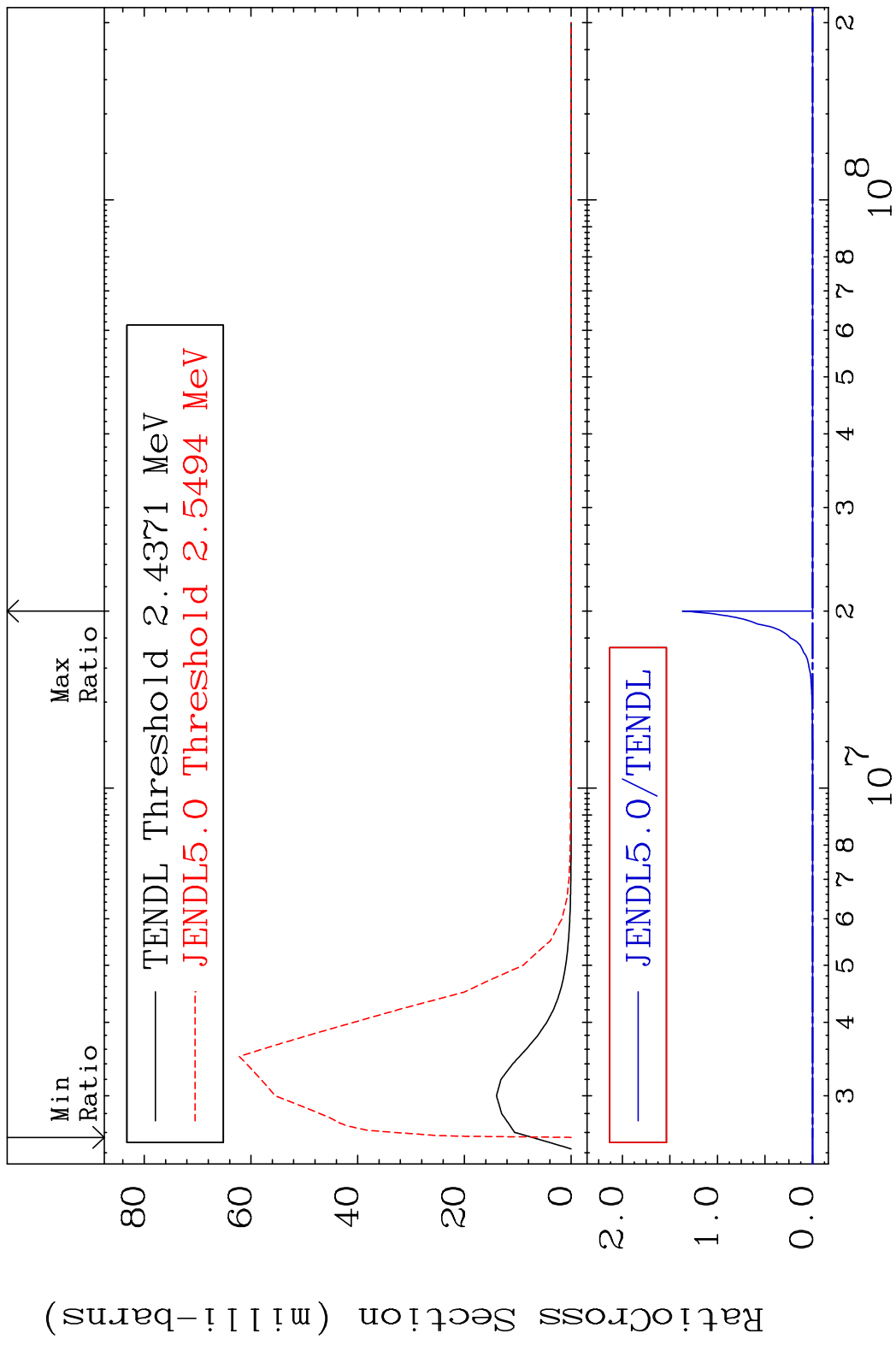
MAT 6231 MT= 69 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 488.1 %



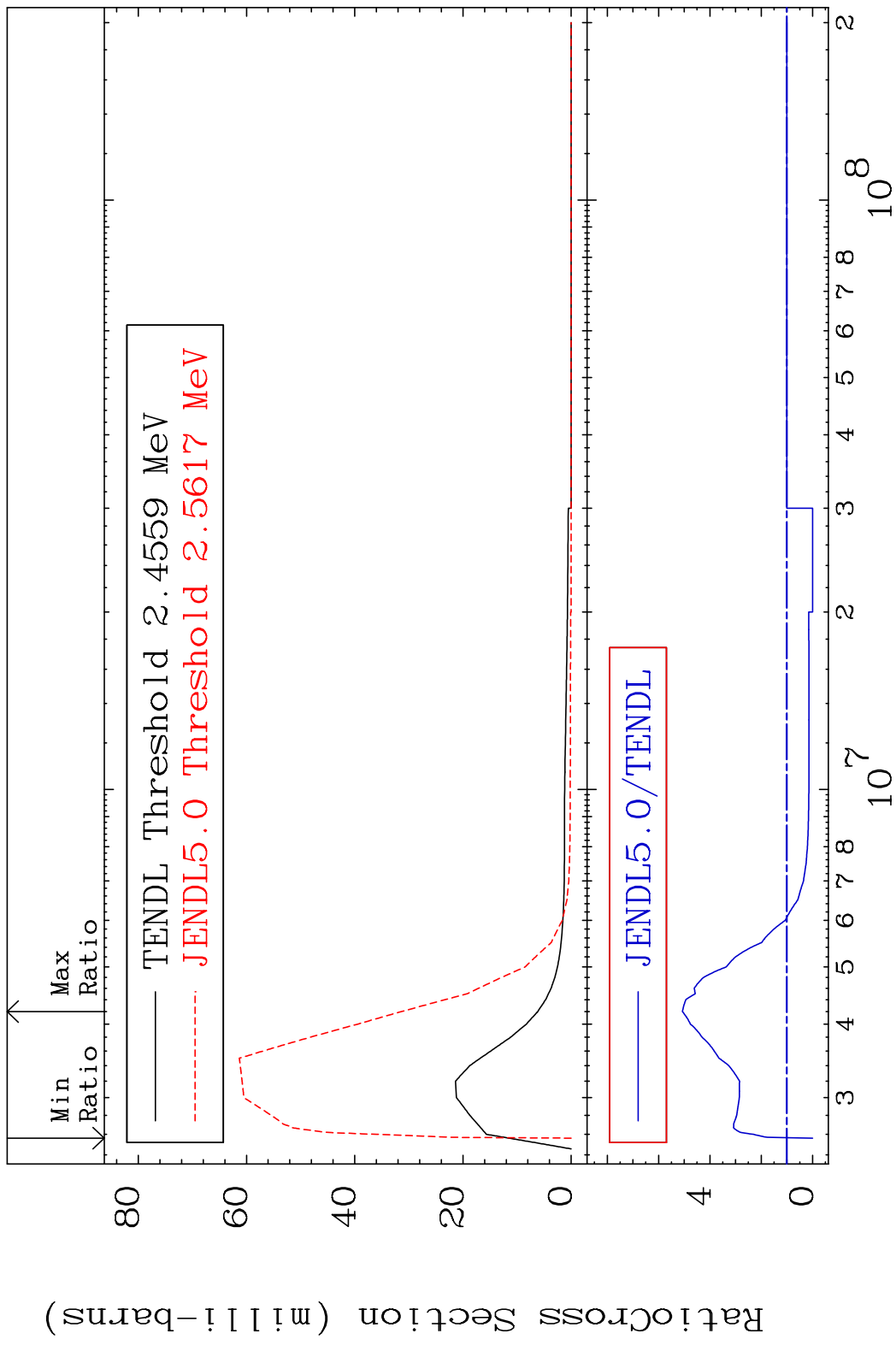
MAT 6231 MT= 70 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 217.2 %



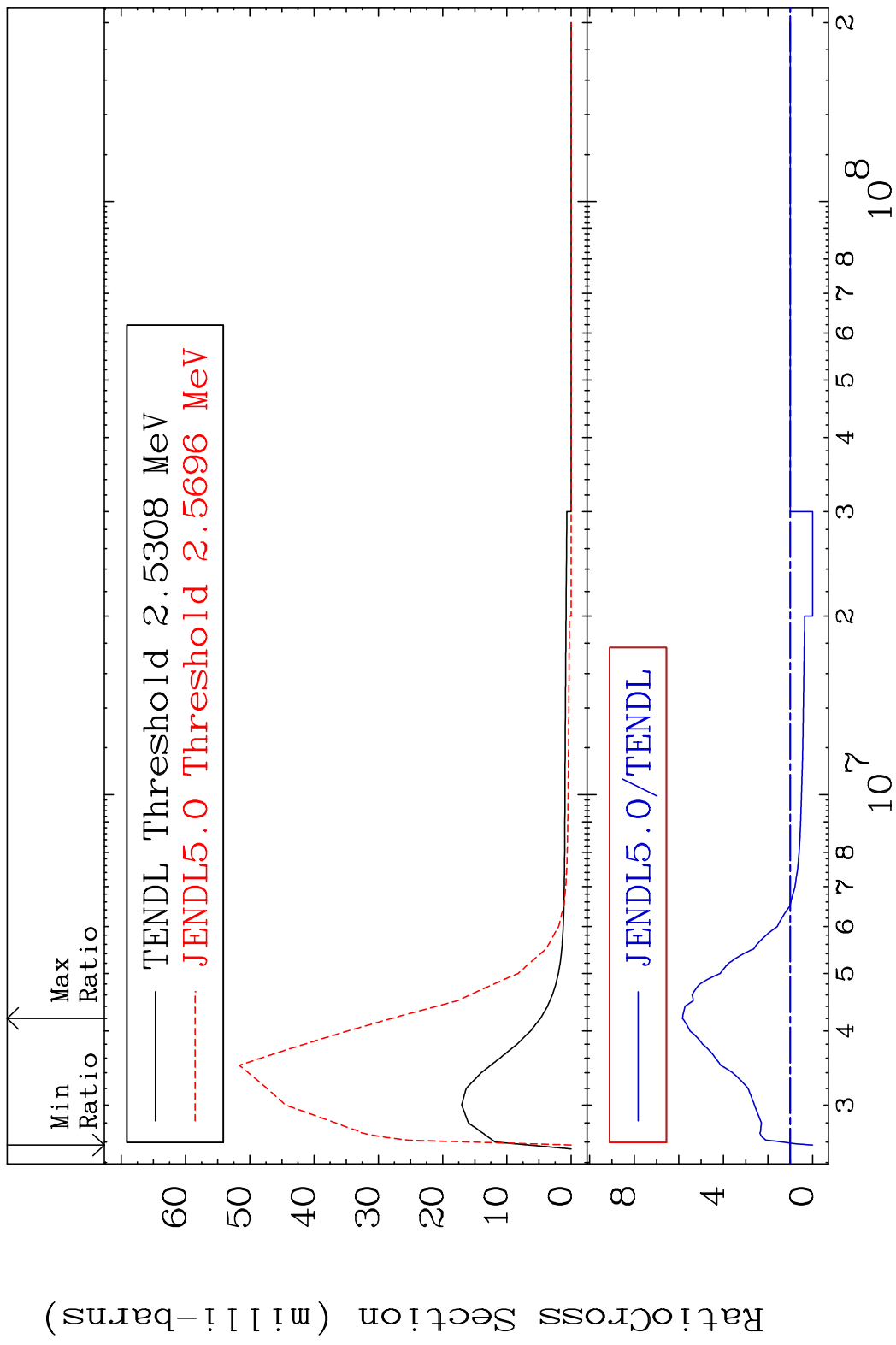
MAT 6231 MT= 71 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



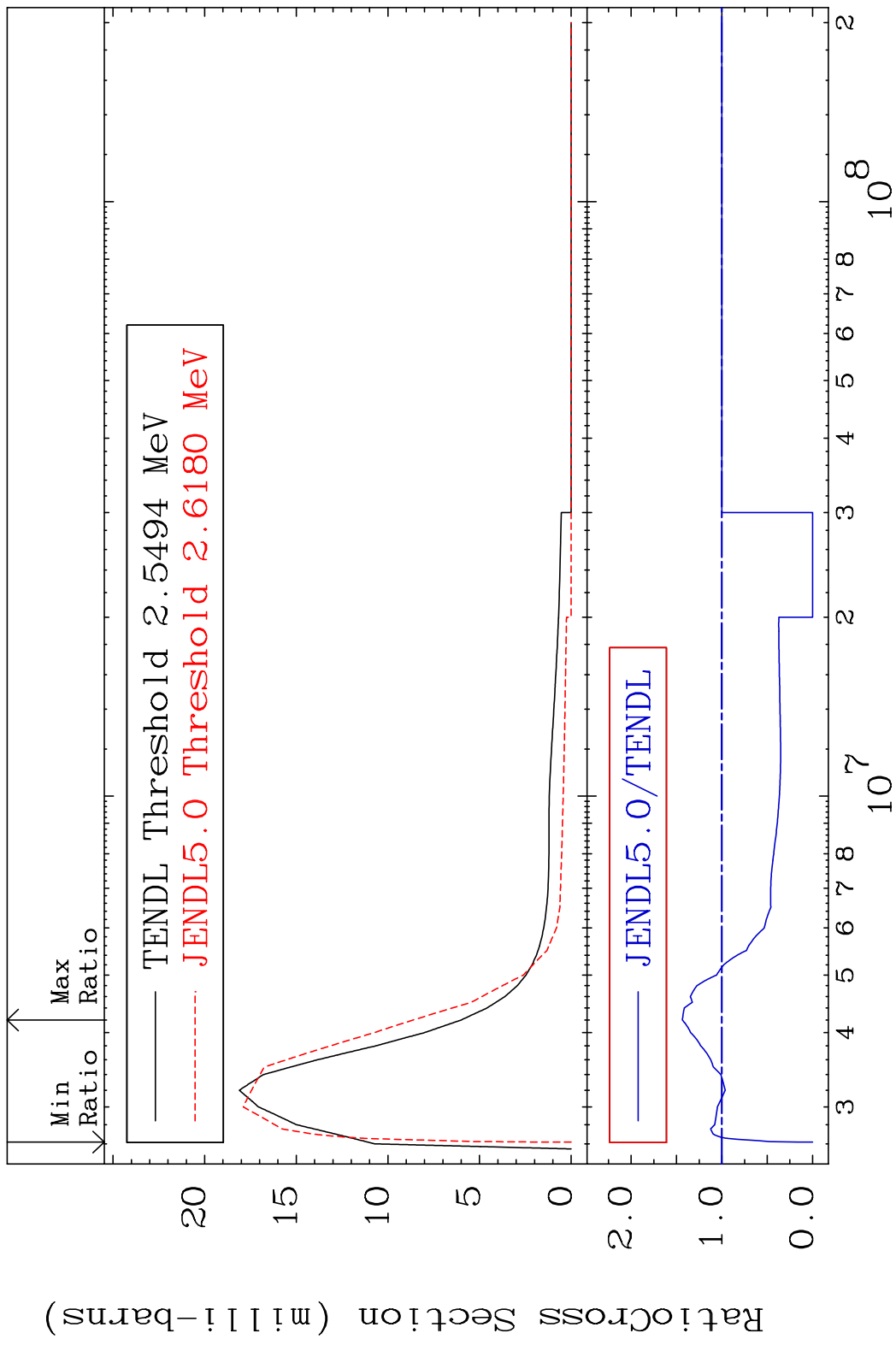
MAT 6231 MT= 72 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 407.4 %



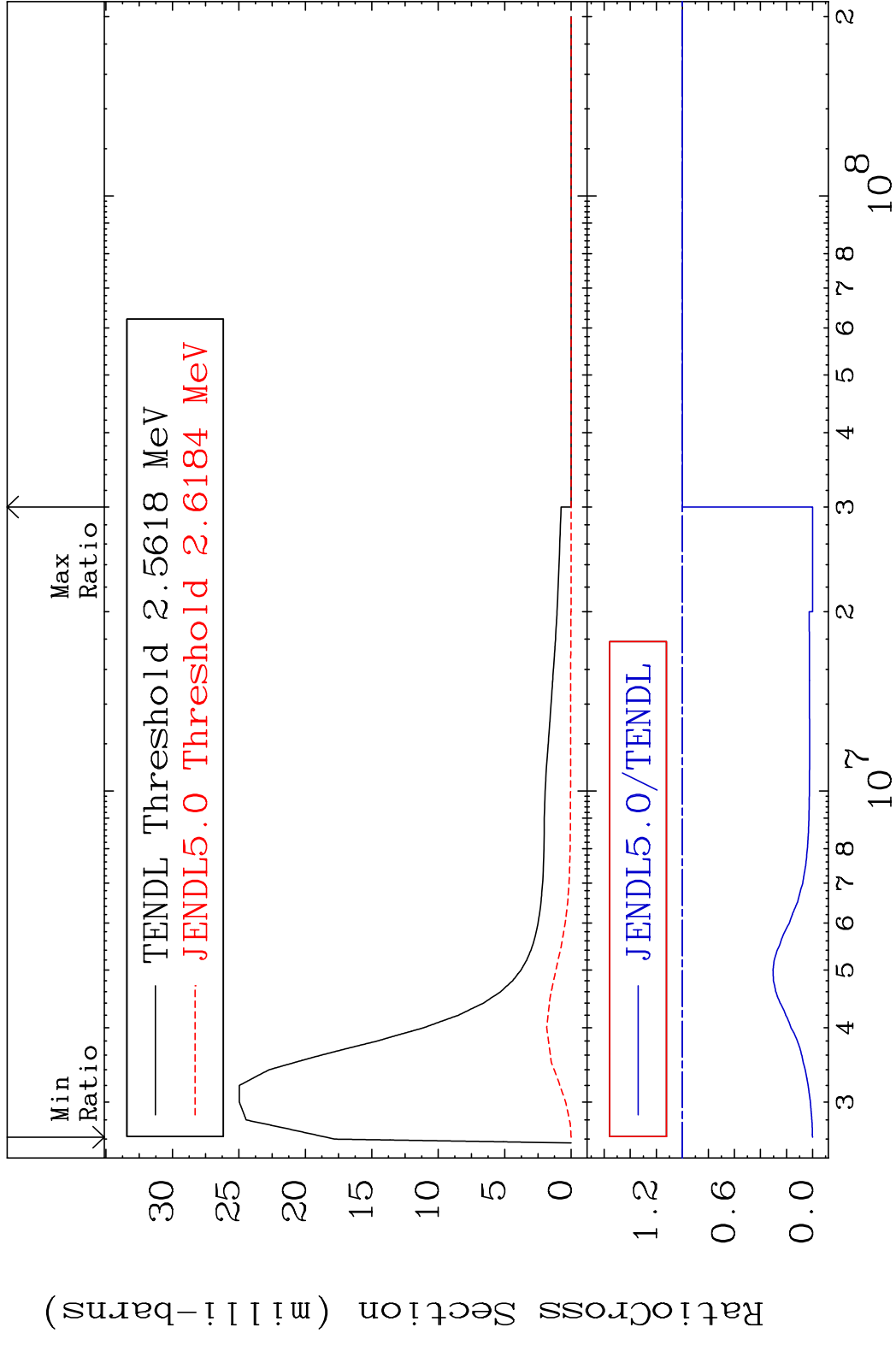
MAT 6231 MT= 73 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 484.1 %



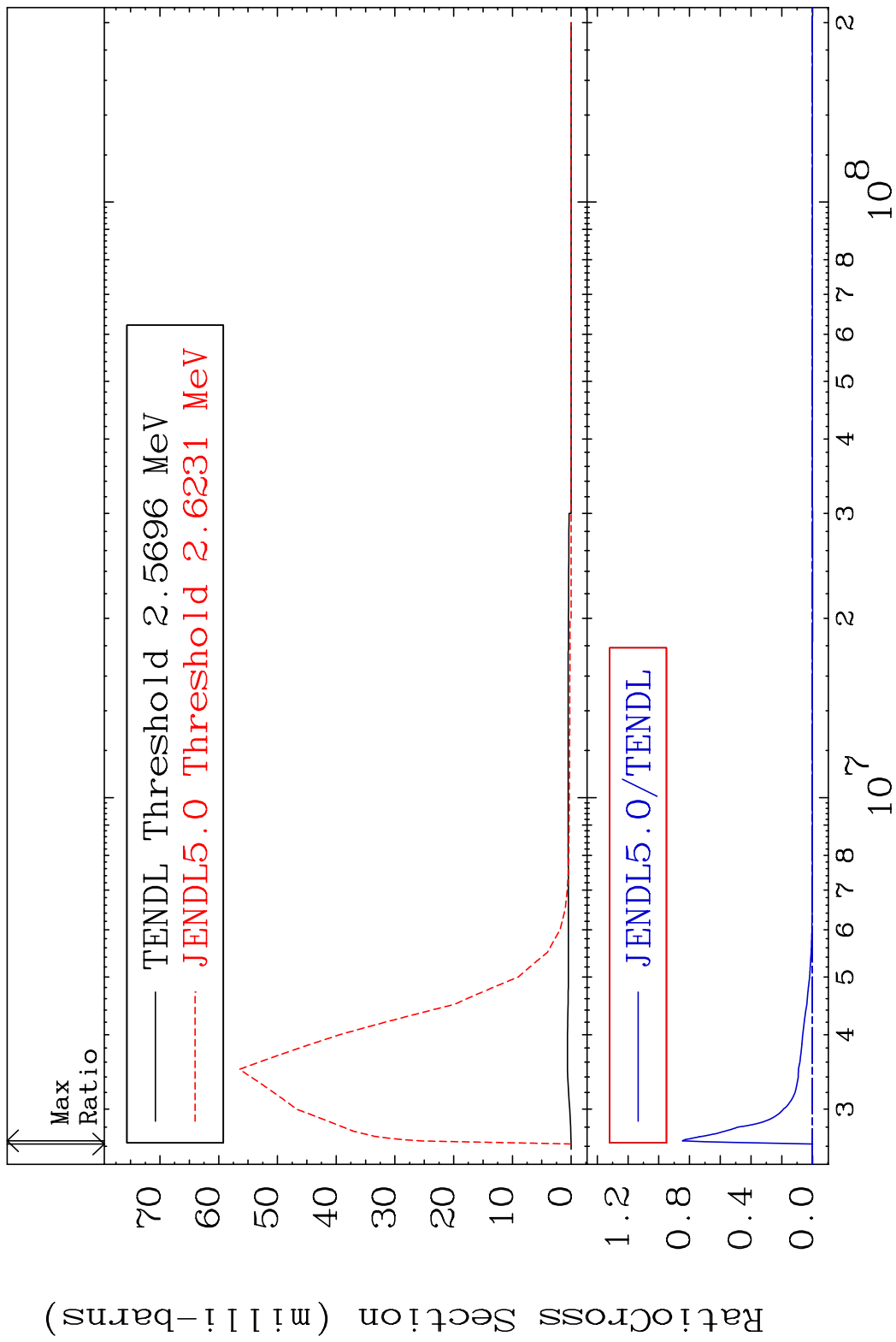
MAT 6231 MT= 74 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 43.56 %



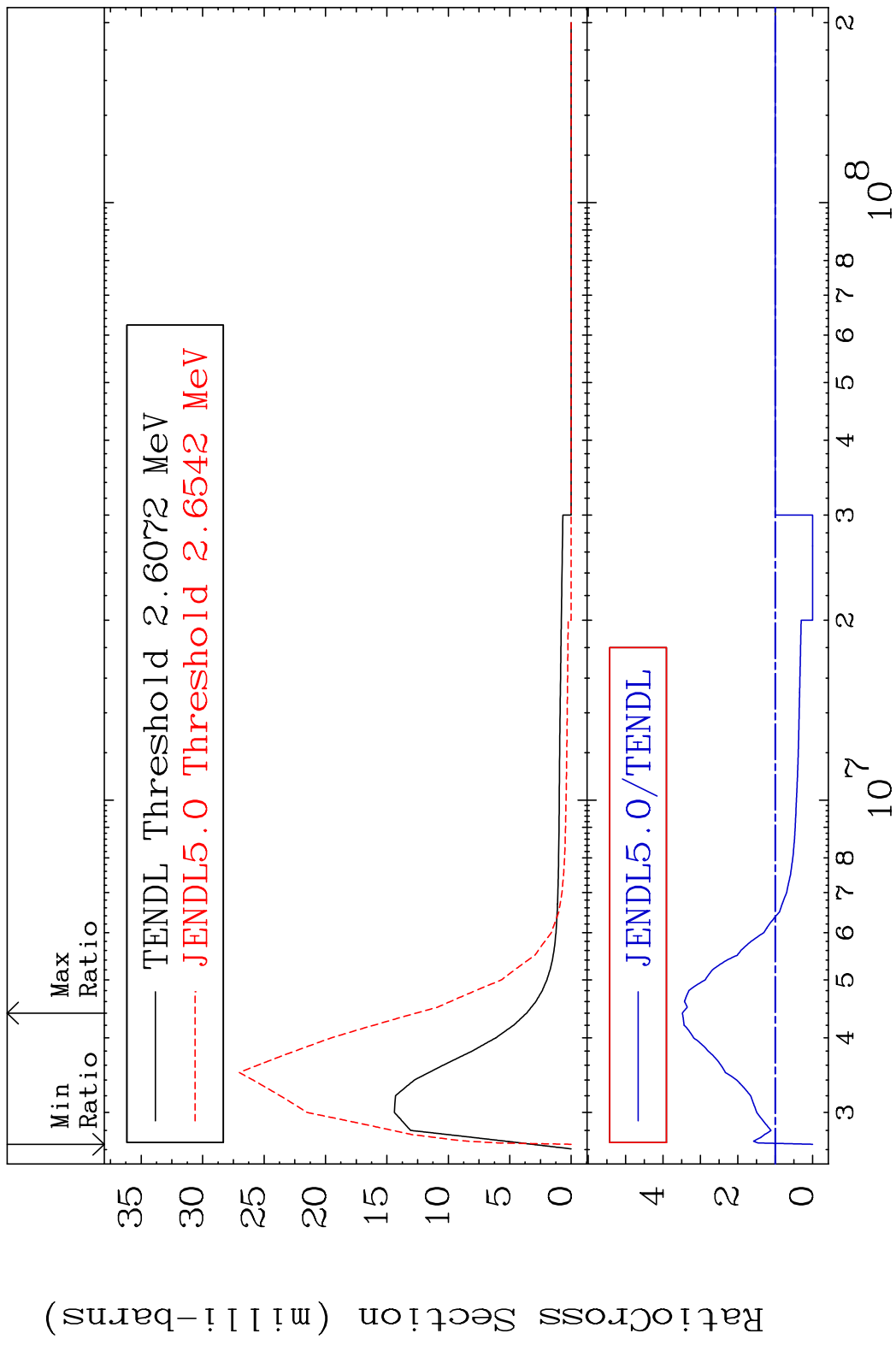
MAT 6231 MT= 75 (n, n') Level 62-Sm-146
 Cross Section -100.0 To 0.000 %



MAT 6231 MT= 76 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 9999. %



MAT 6231 MT= 77 (n,n') Level 62-Sm-146
 Cross Section -100.0 To 248.1 %

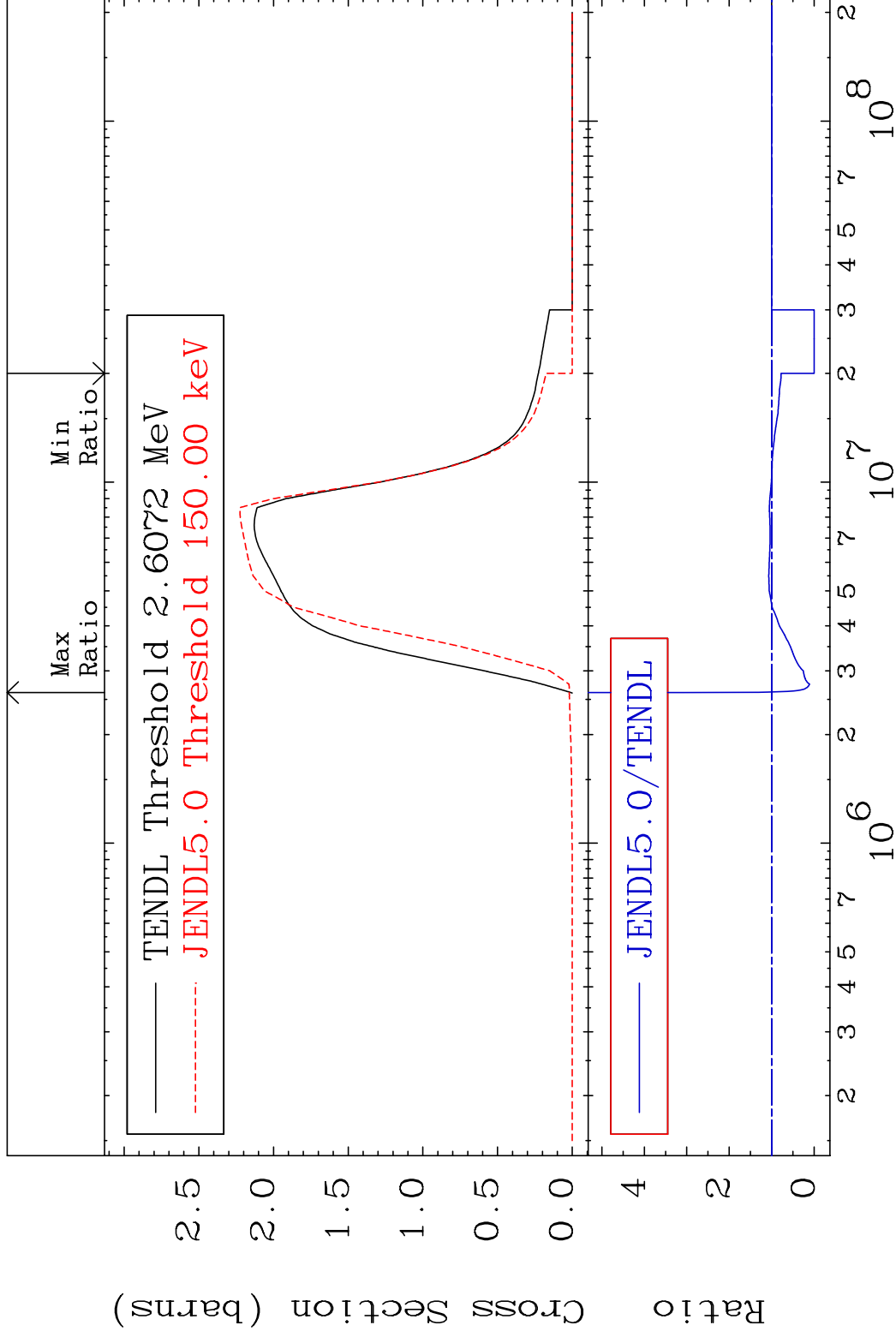


MAT 6231

(n, n') Continuum

62-Sm-146

Cross Section -100.0 To 207.3 %



40

Incident Energy (eV)

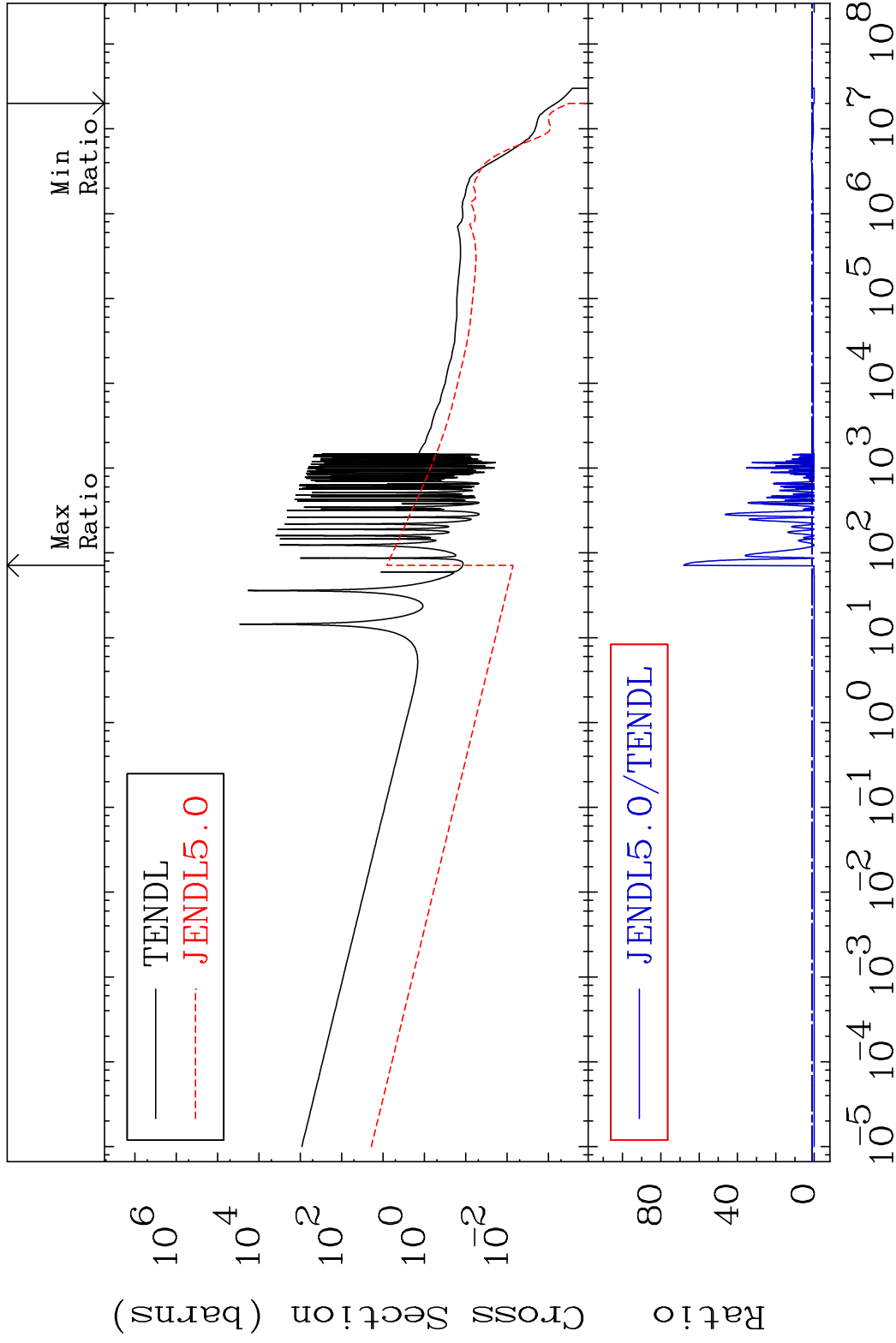
62-Sm-146

MAT 6231

(n, γ)

62-Sm-146

Cross Section -100.0 To 6707. %



41

Incident Energy (eV)

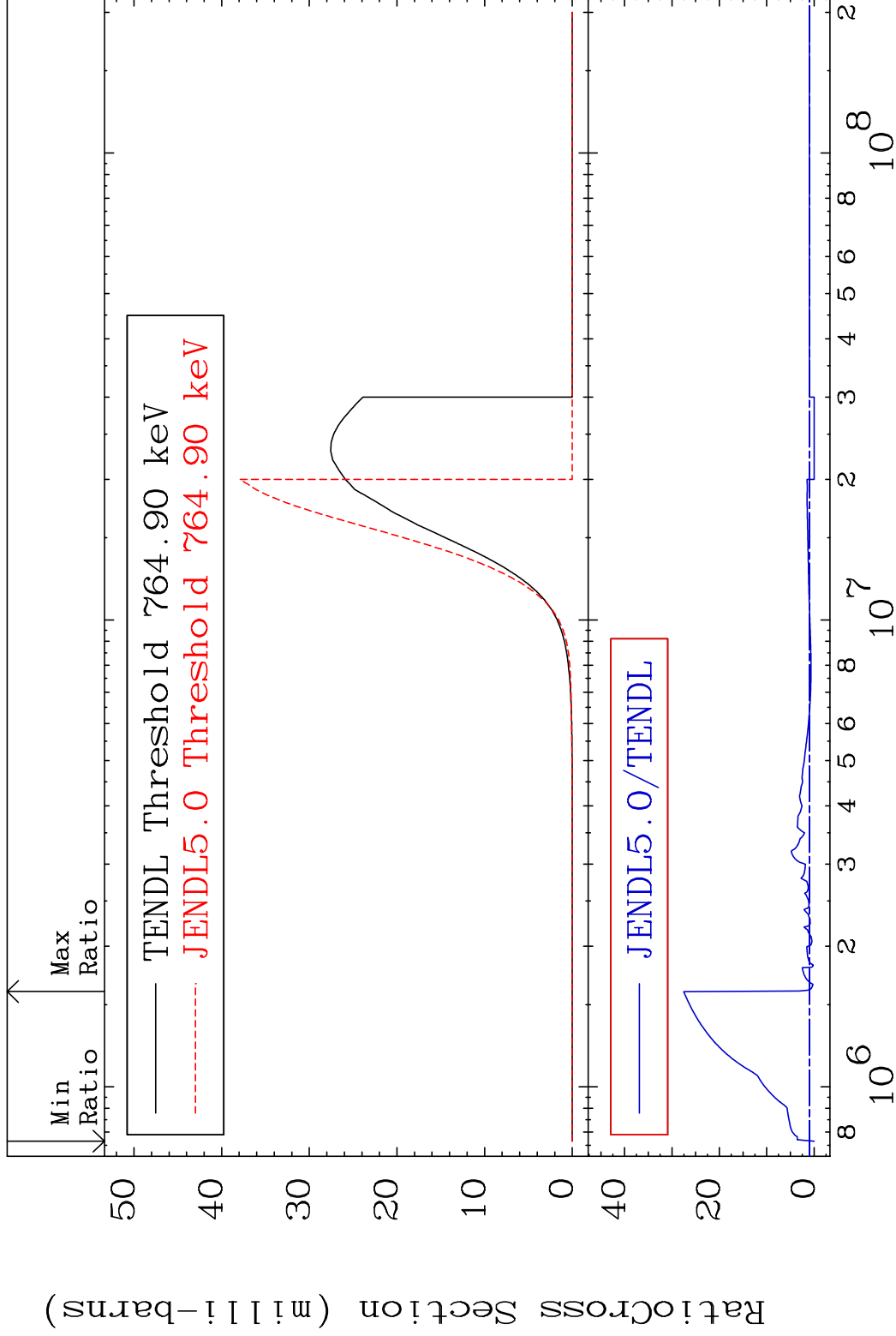
62-Sm-146

MAT 6231

(n,p)

62-Sm-146

Cross Section -100.0 To 2654. %



42

Incident Energy (eV)

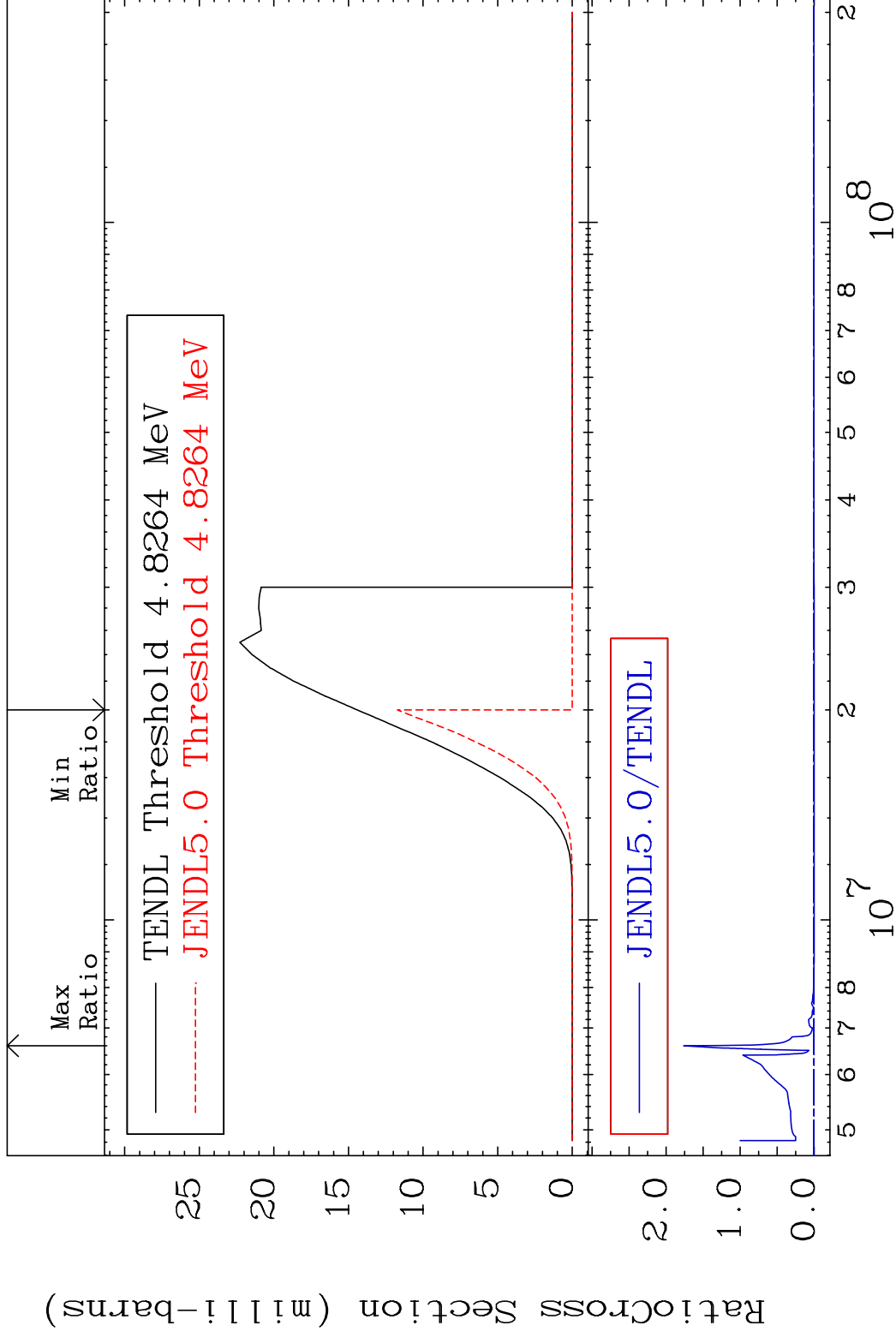
62-Sm-146

MAT 6231

(n,d)

62-Sm-146

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

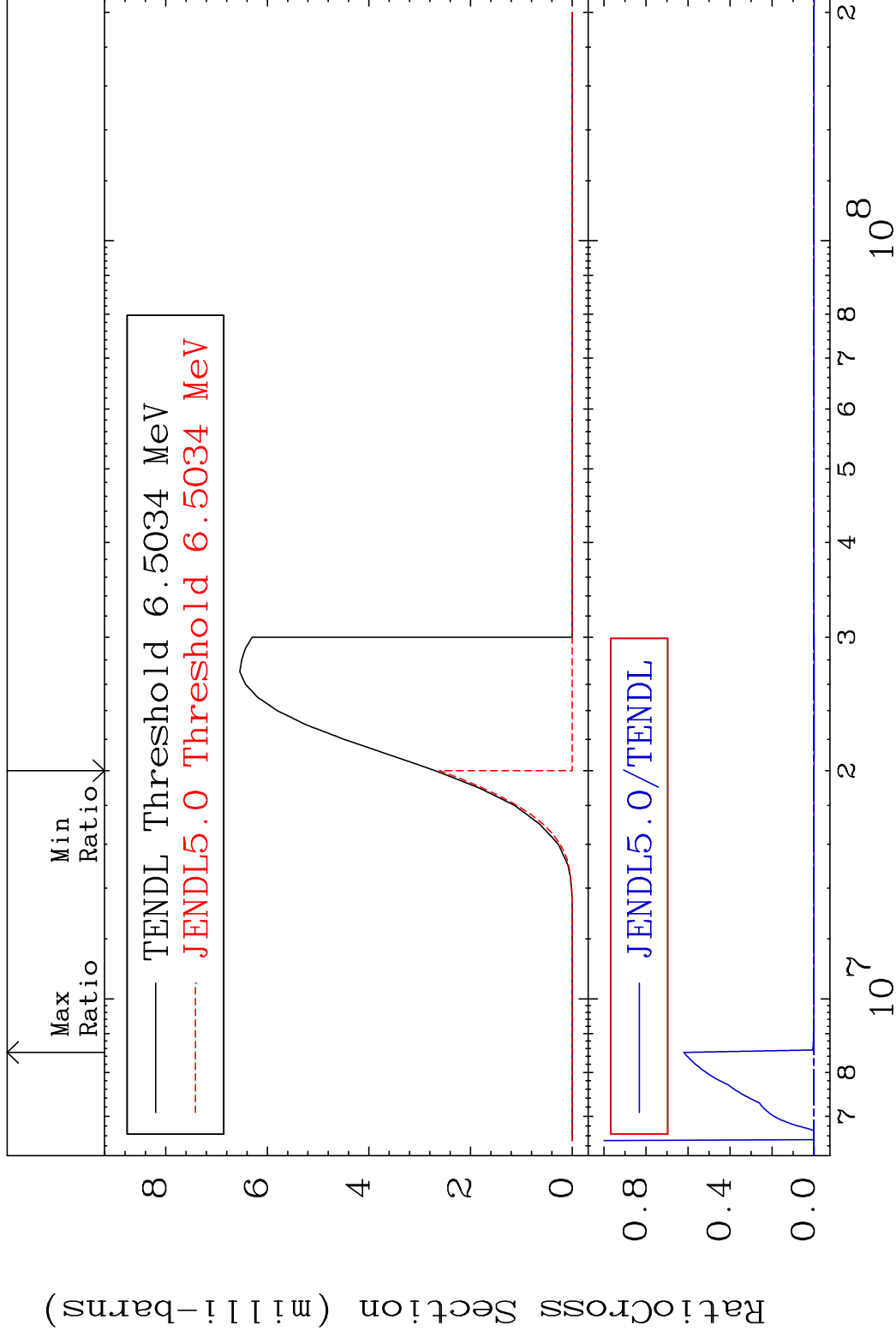
62-Sm-146

MAT 6231

(n, t)

62-Sm-146

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

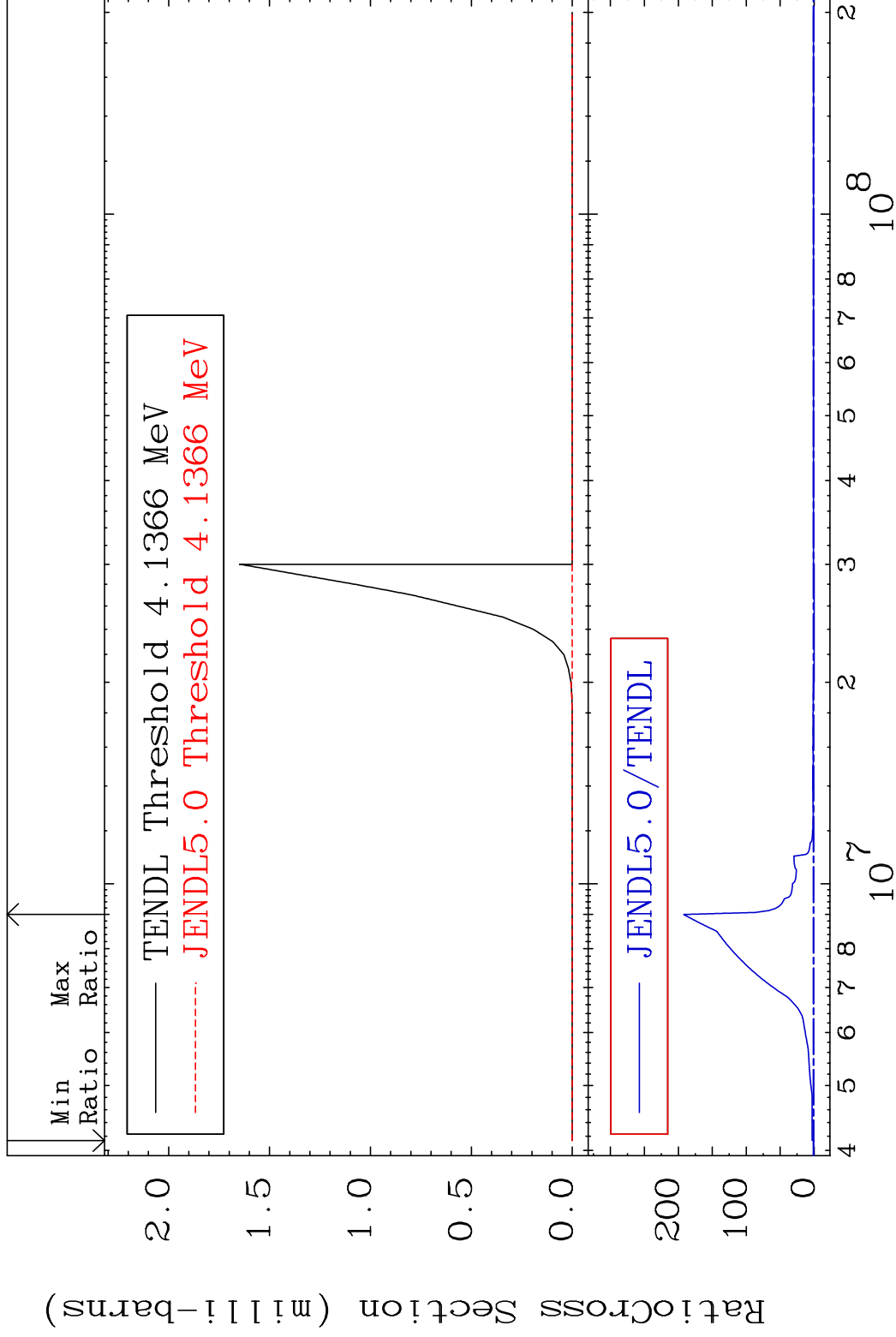
62-Sm-146

MAT 6231

(n, He-3)

62-Sm-146

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

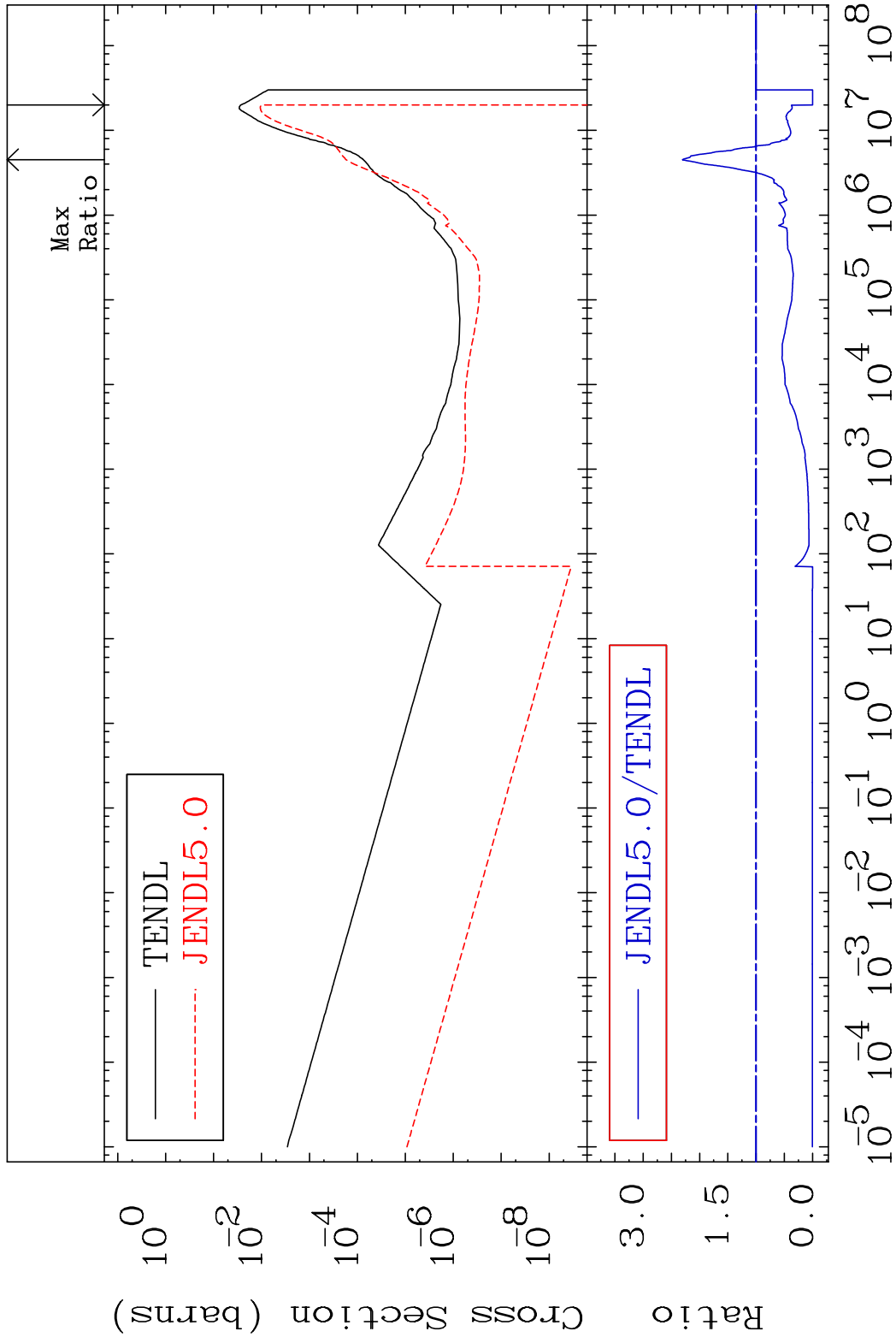
62-Sm-146

MAT 6231

(n, α)

62-Sm-146

Cross Section -100.0 To 130.6 %



46

Incident Energy (eV)

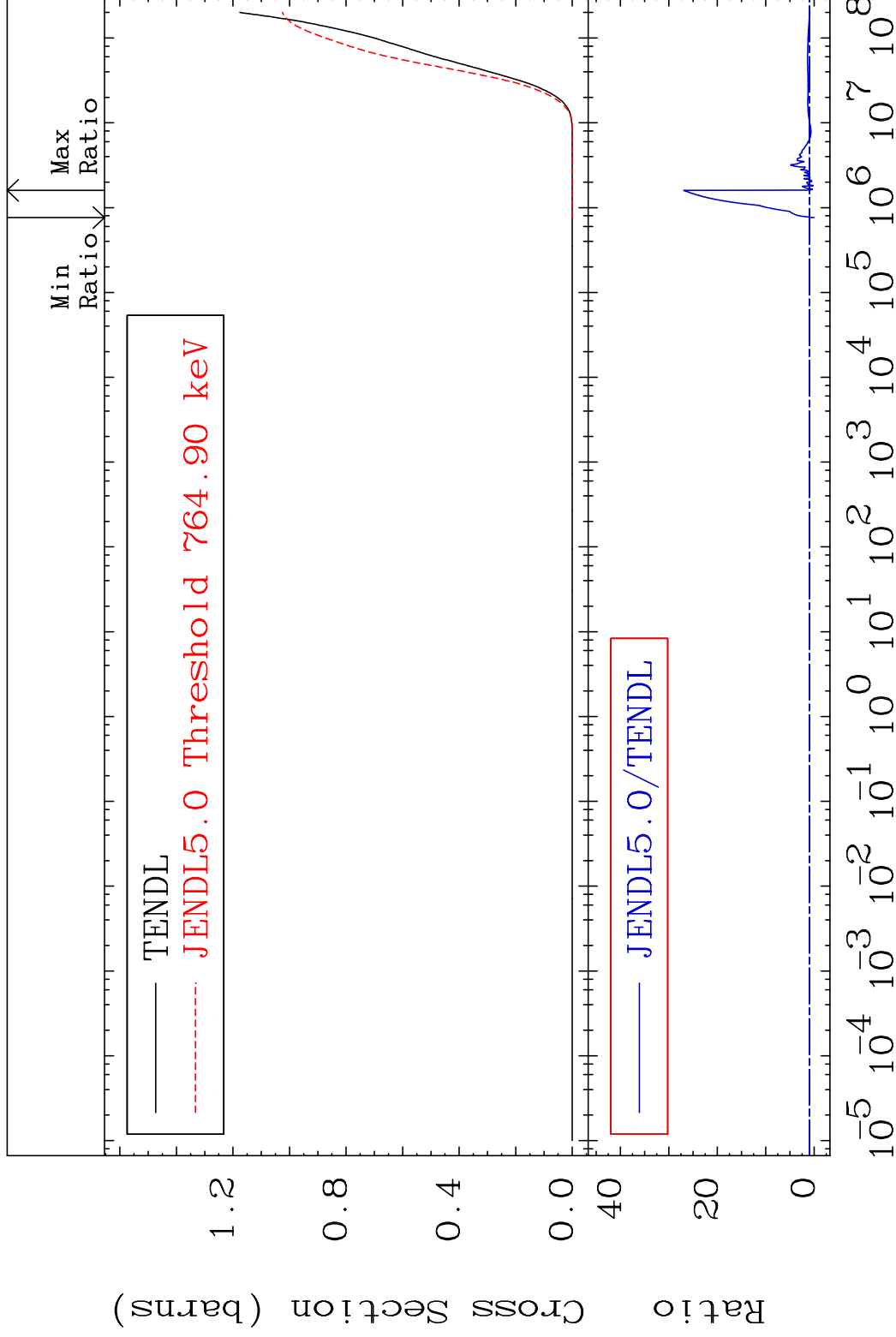
62-Sm-146

MAT 6231

Hydrogen Production

62-Sm-146

Cross Section -100.0 To 2594. %

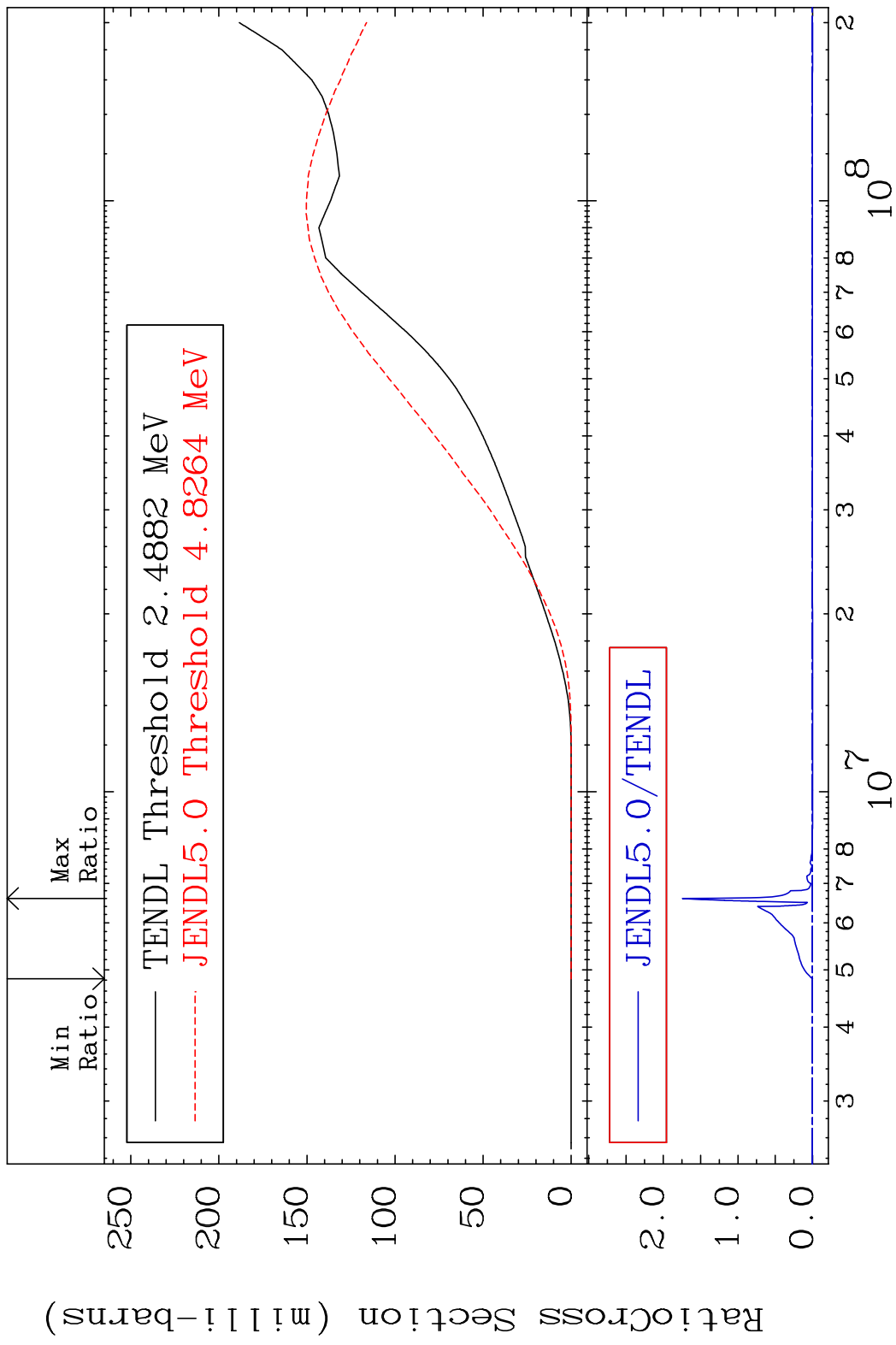


47

Incident Energy (eV)

62-Sm-146

MAT 6231 Deuterium Production 62-Sm-146
 Cross Section -100.0 To 9999. %

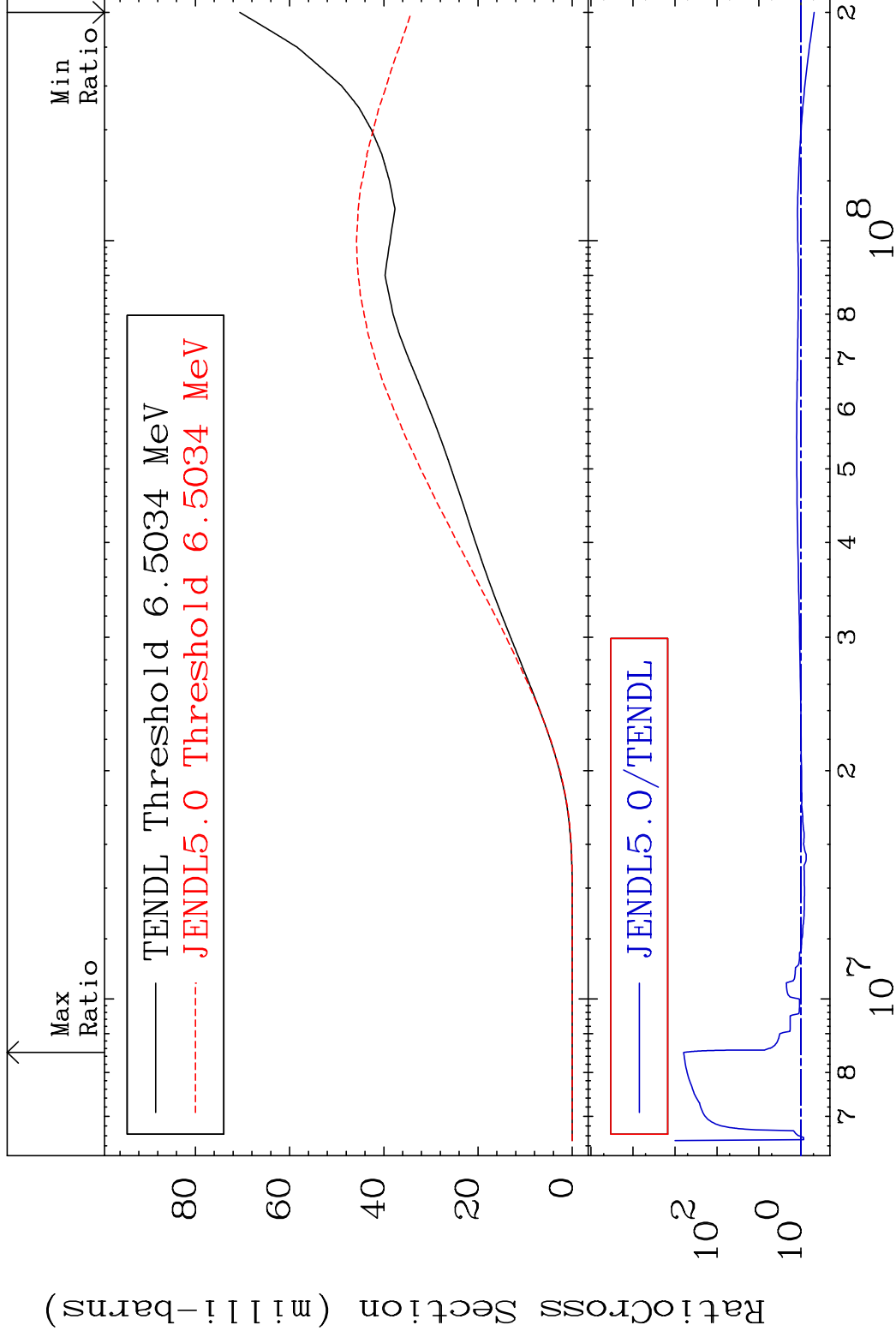


MAT 6231

Tritium Production

62-Sm-146

Cross Section -51.57 To 9999. %



49

Incident Energy (eV)

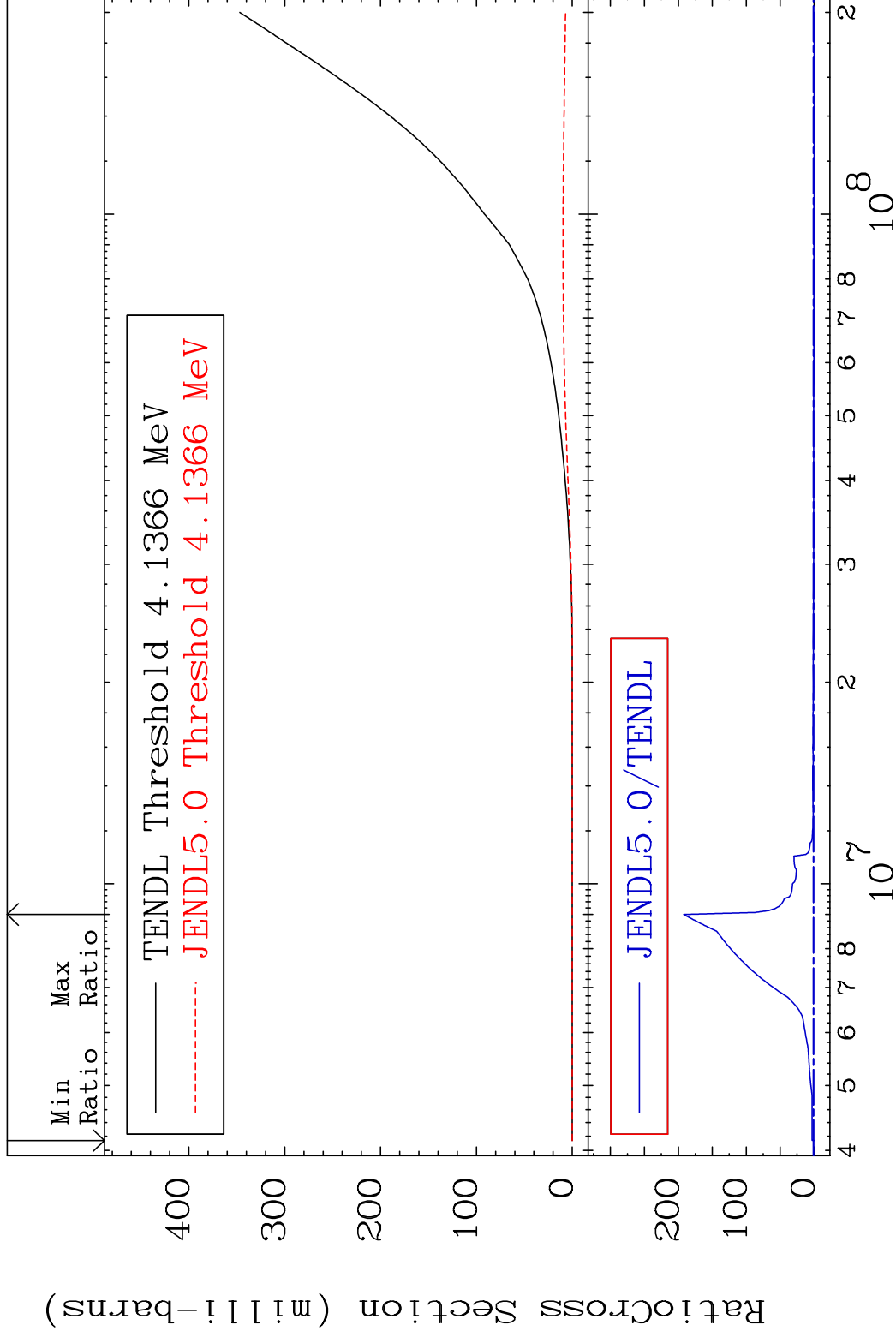
62-Sm-146

MAT 6231

He-3 Production

62-Sm-146

Cross Section -100.0 To 9999. %

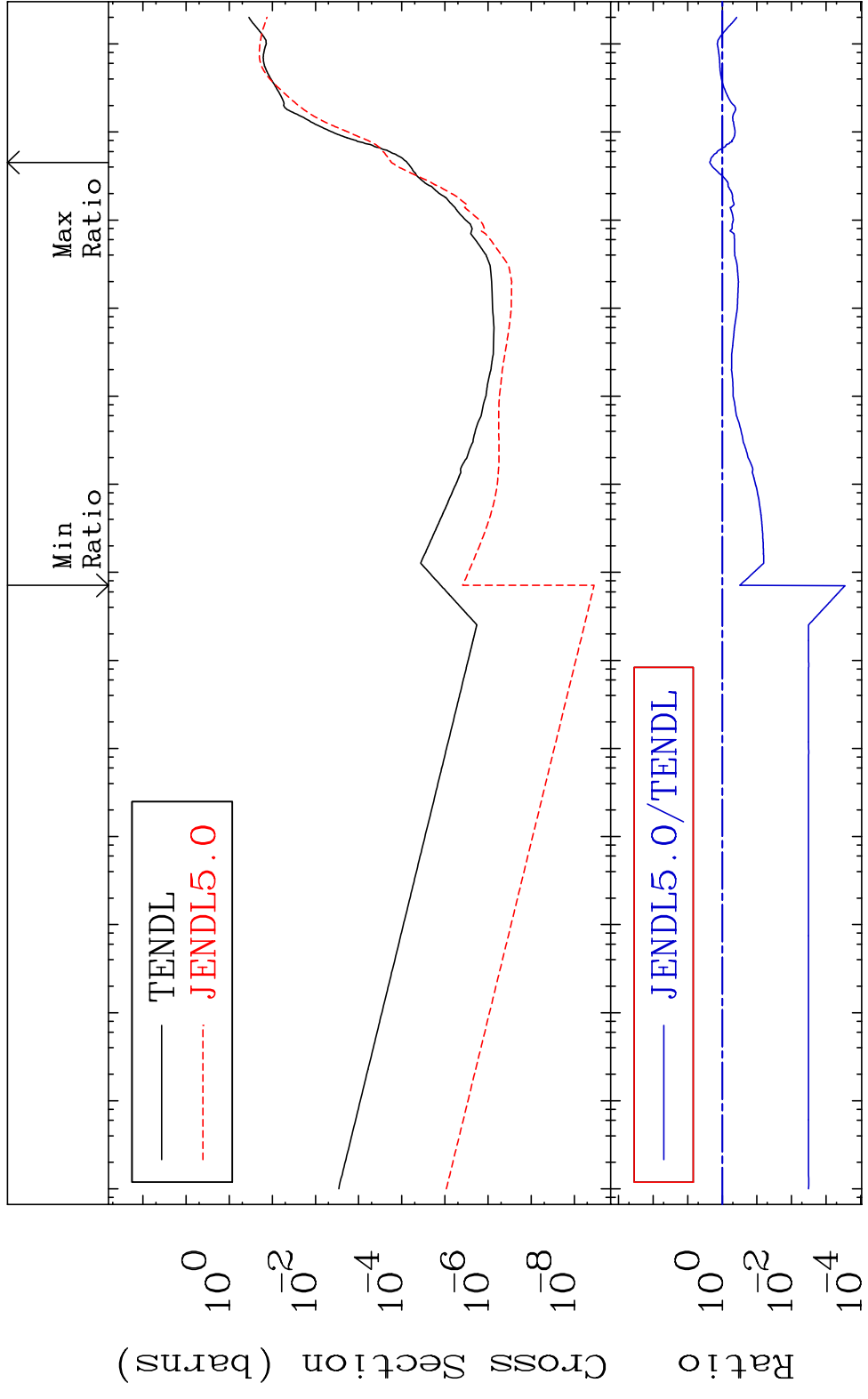


50

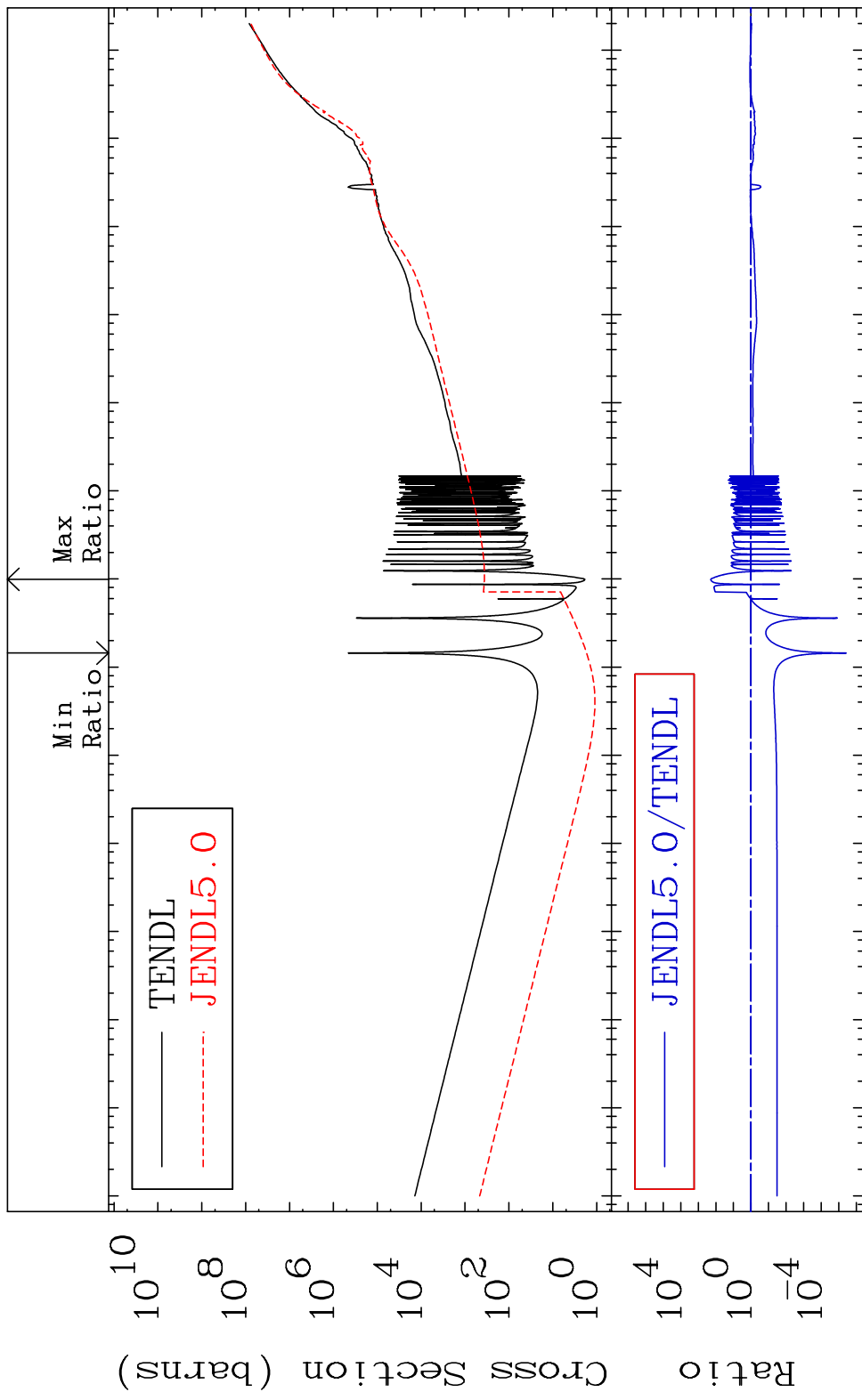
Incident Energy (eV)

62-Sm-146

MAT 6231 He-4 Production 62-Sm-146
 Cross Section -99.97 To 130.4 %



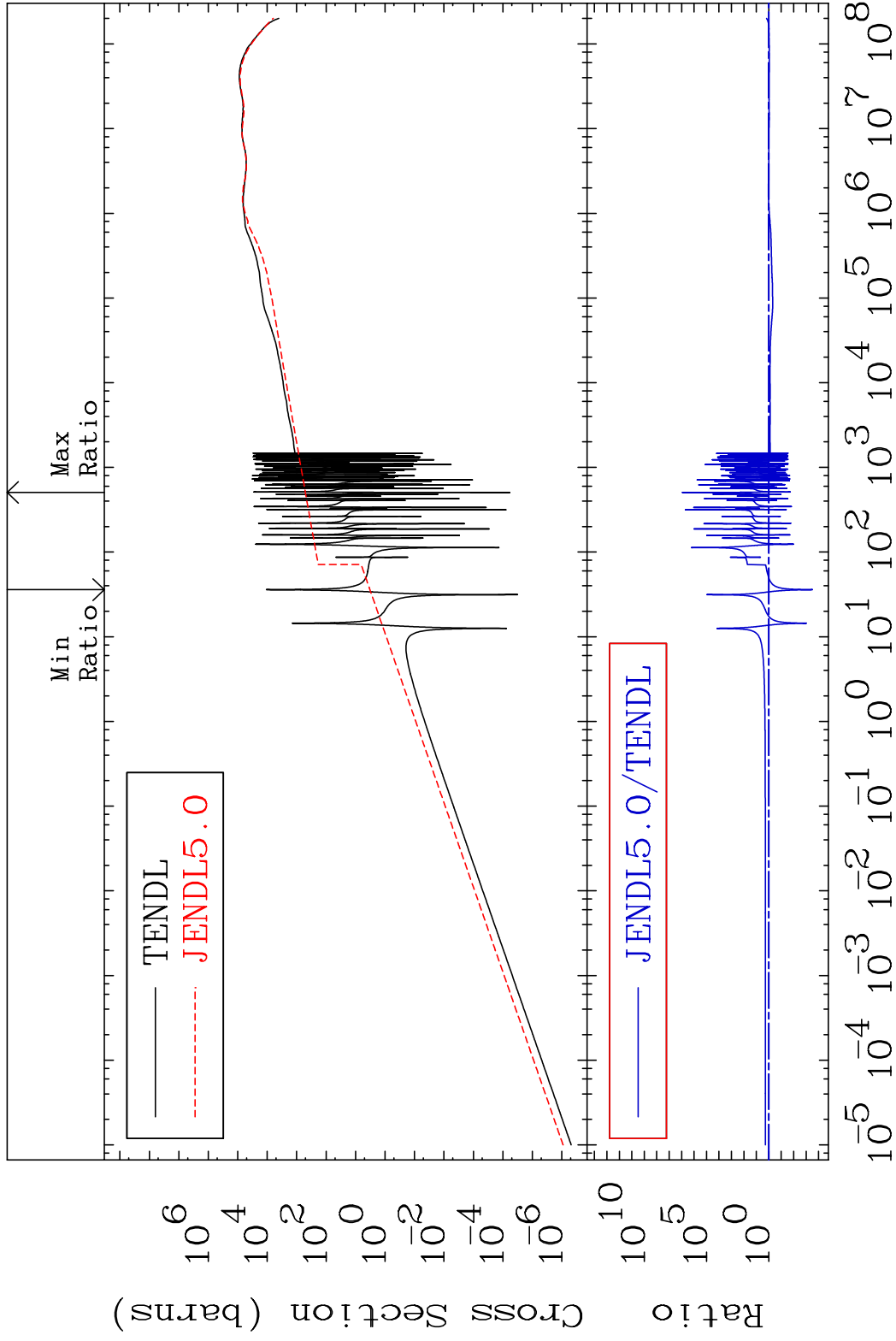
MAT 6231 Kerma total (eV-barns) 62-Sm-146
 Cross Section -100.0 To 9999. %



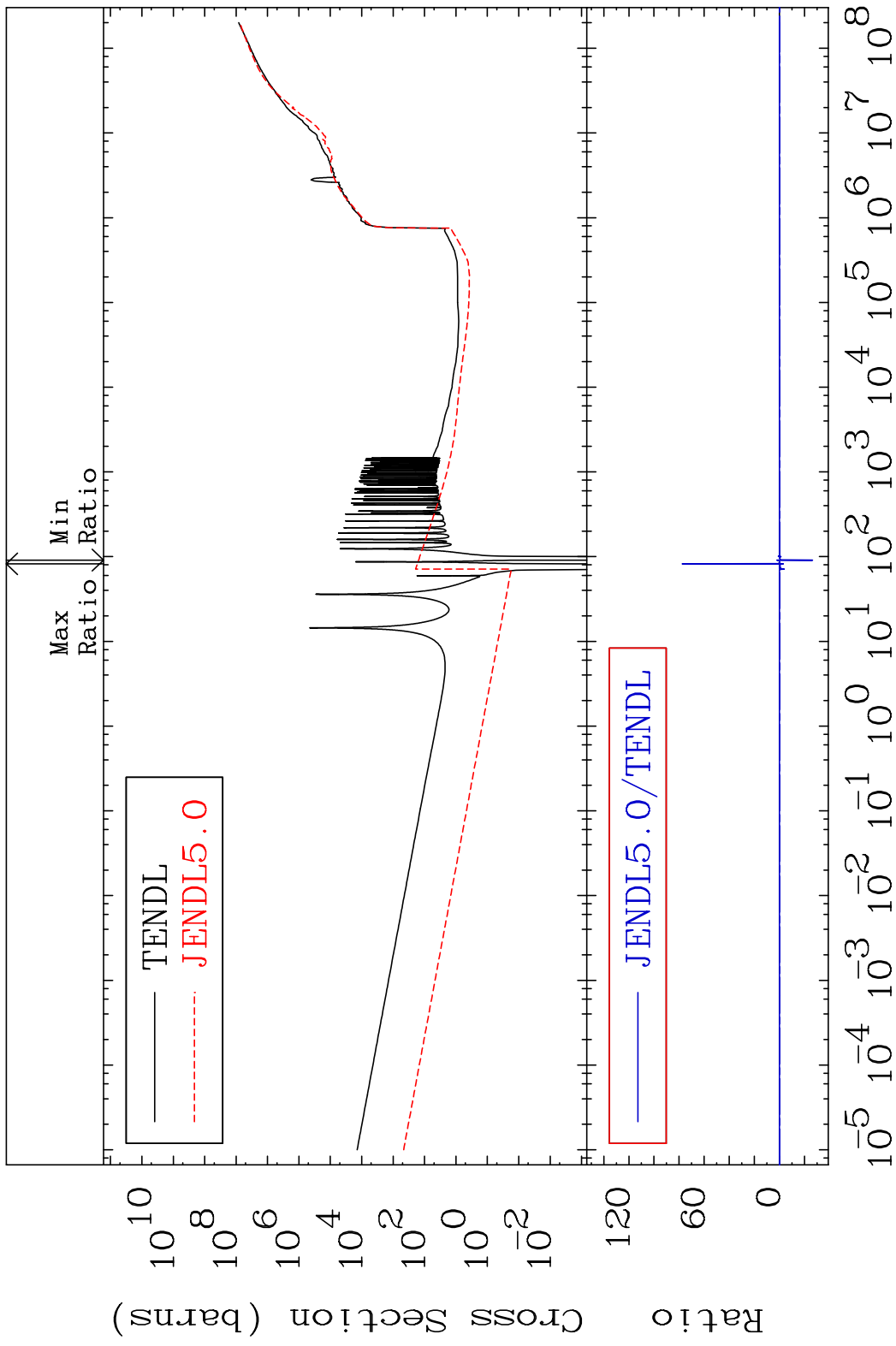
52 Incident Energy (eV) 62-Sm-146

MAT 6231

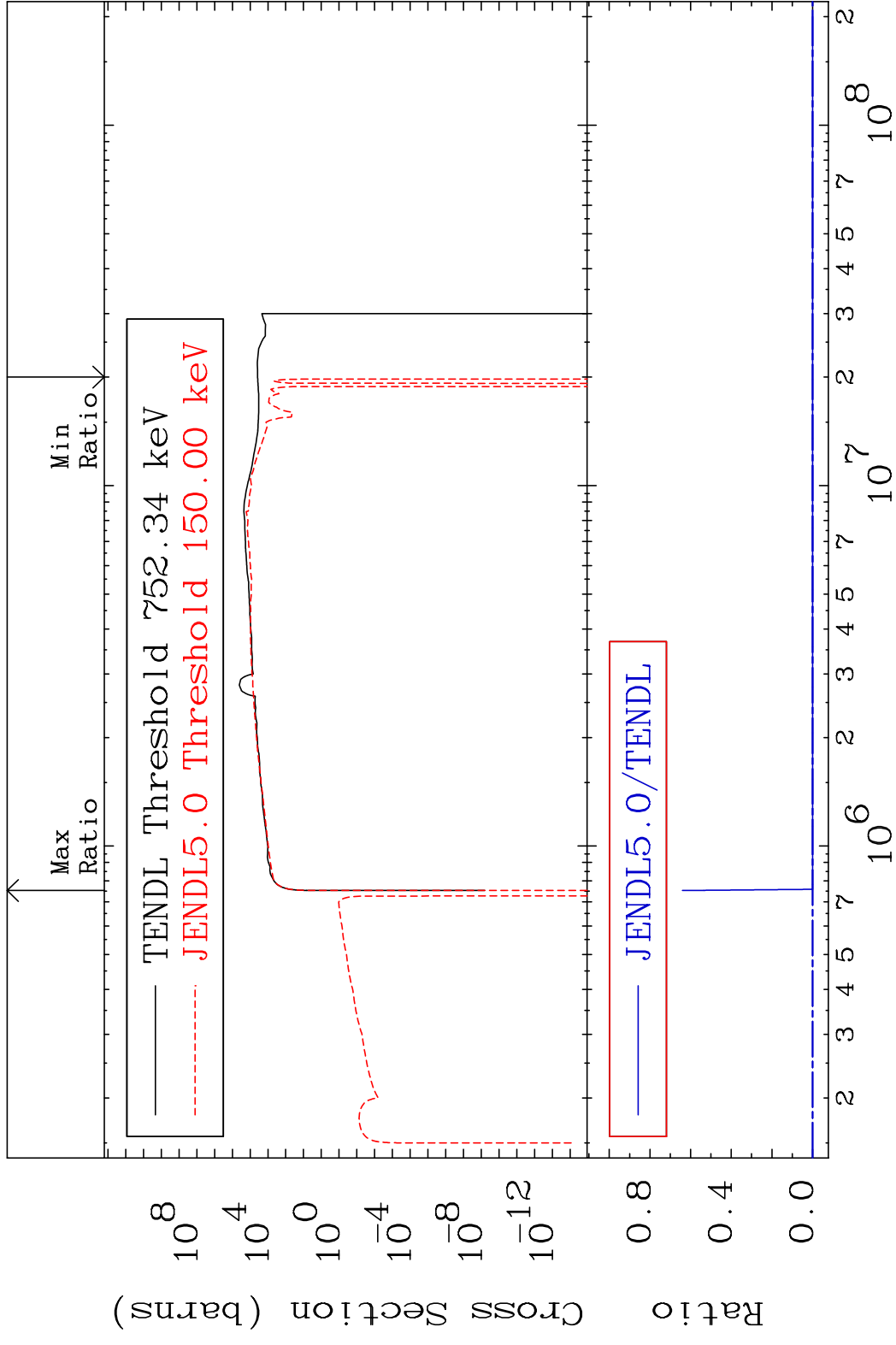
Kerma elastic Cross Section -99.97 To 9999. %
62-Sm-146



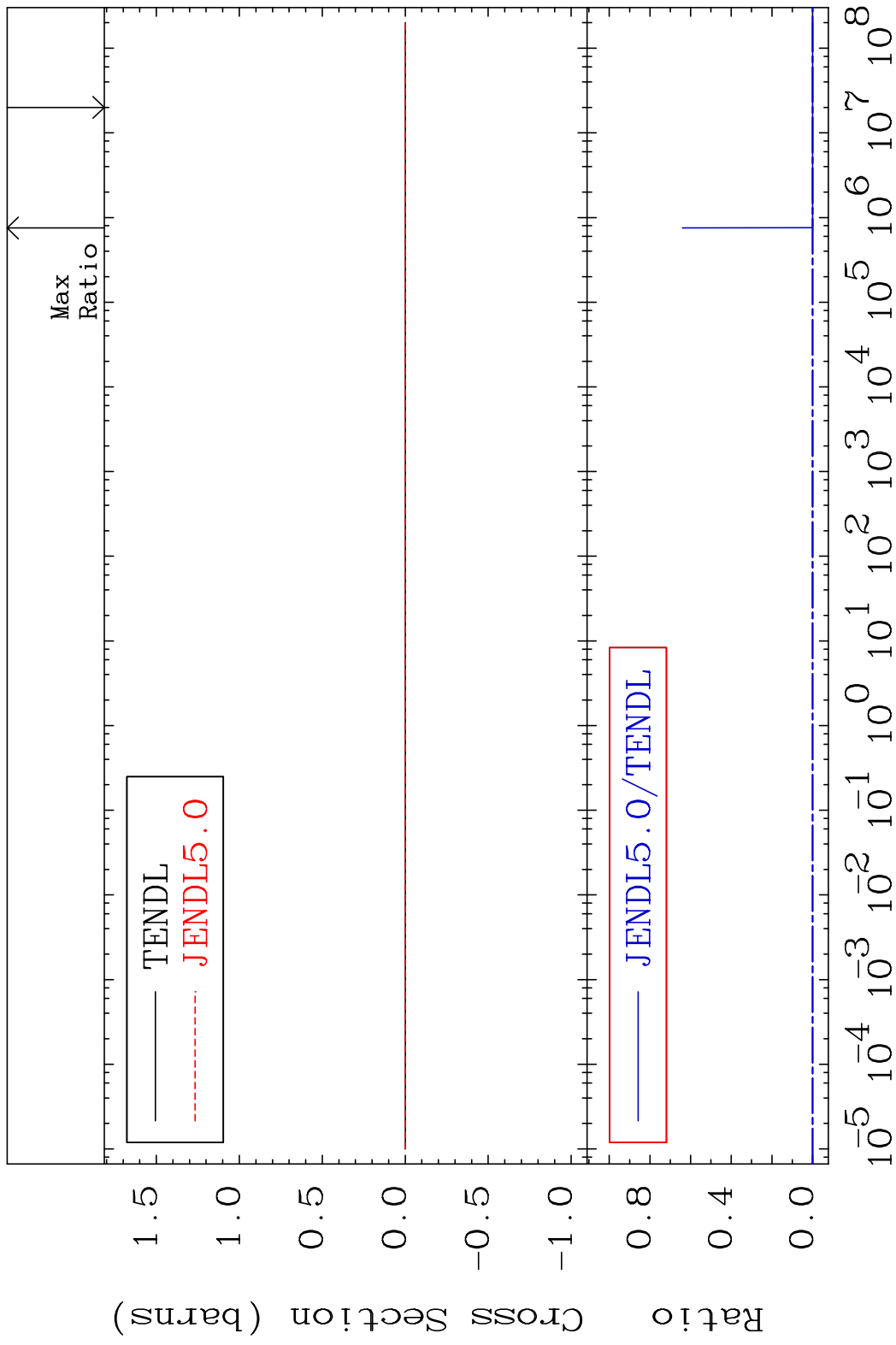
MAT 6231 Kerma non-elastic (all but mt2) 62-Sm-146
 Cross Section -9999. To 9999. %



MAT 6231 Kerma inelastic (mt51-91) 62-Sm-146
 Cross Section -110.8 To 9999. %



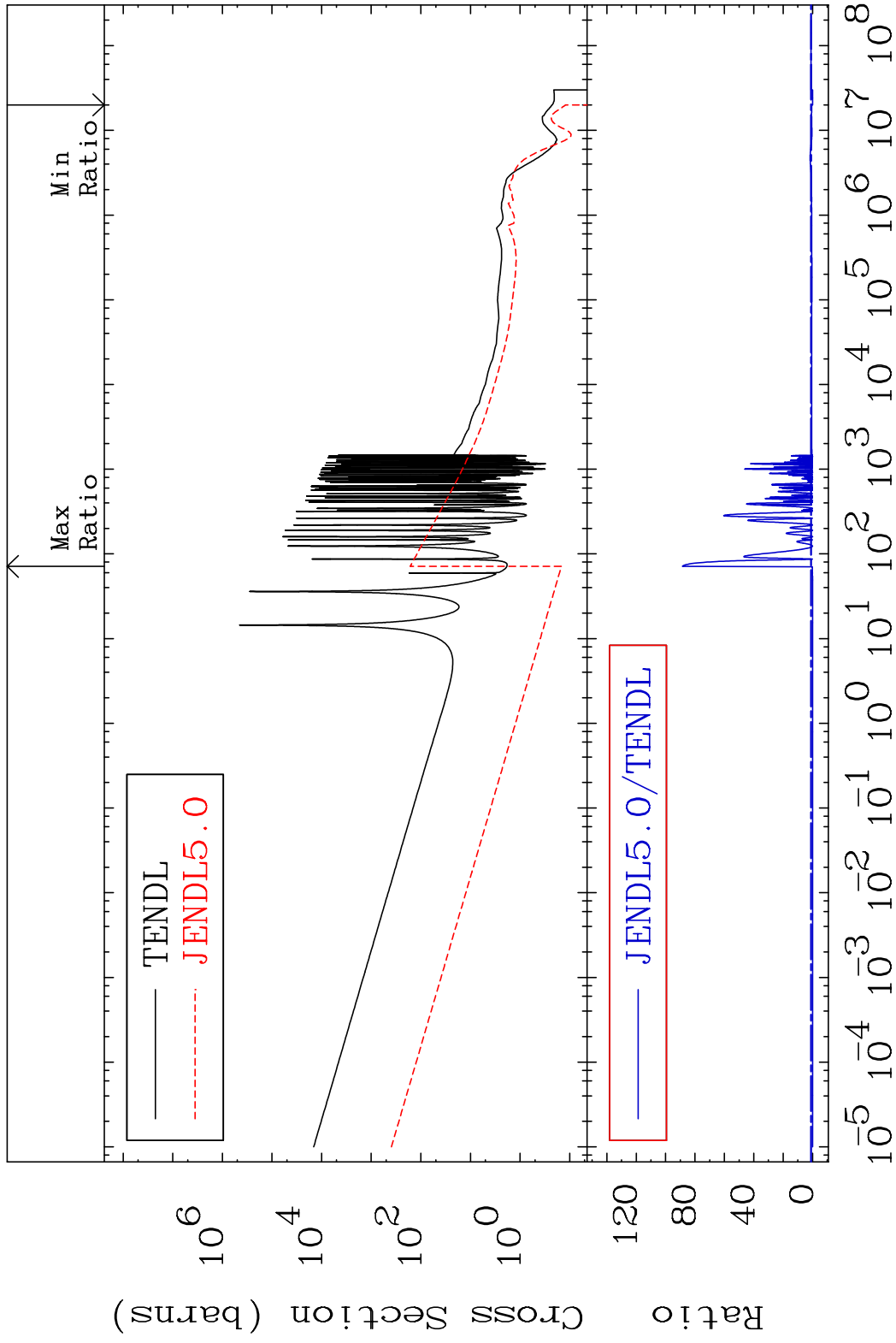
MAT 6231 Kerma fission (mt18 or mt19-20-21-38) ^{62}Sm -146
 Cross Section -110.8 To 9999. %



MAT 6231

Kerma capture (mt102) 62-Sm-146

Cross Section -100.0 To 8761. %

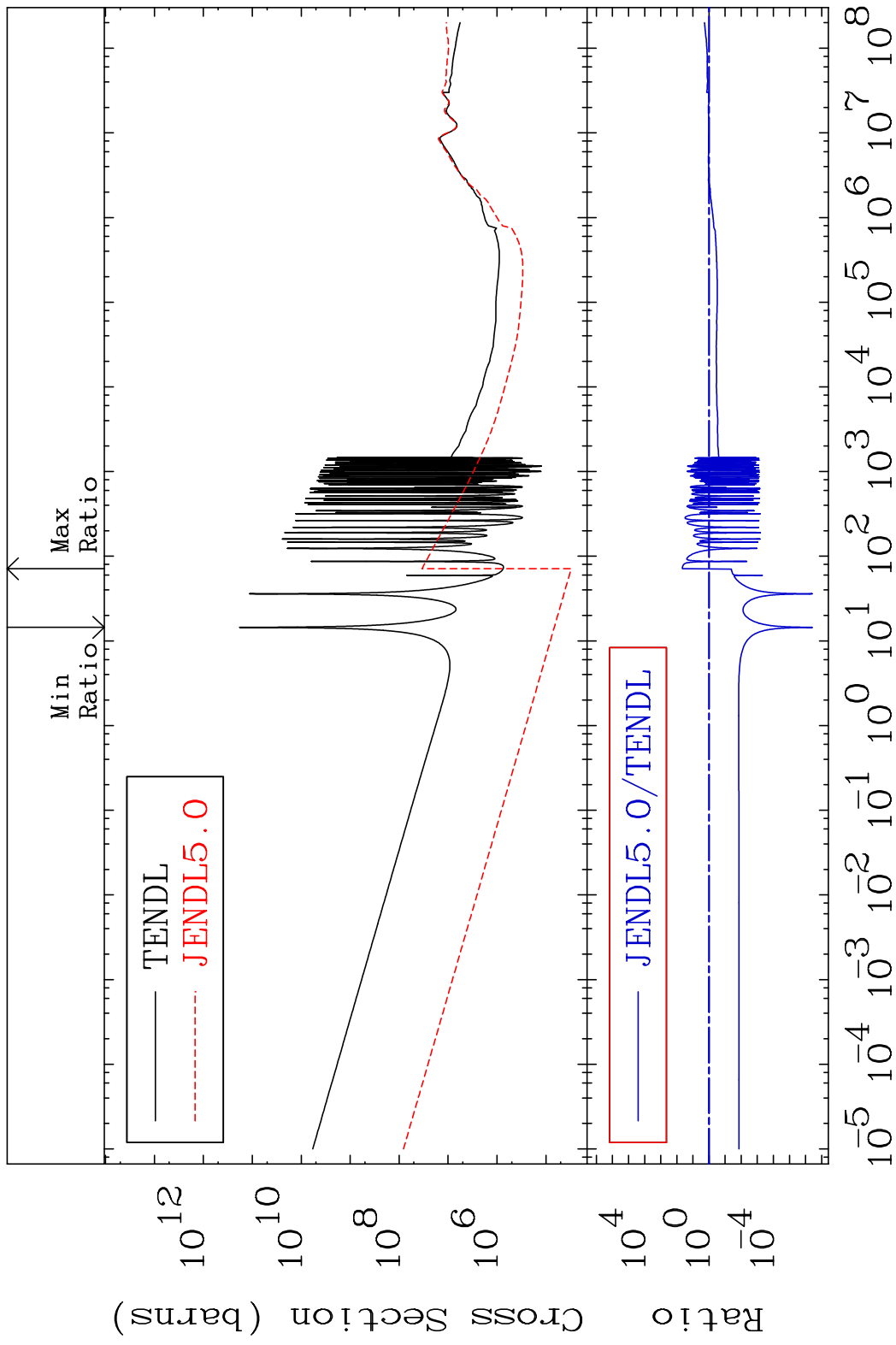


57

Incident Energy (eV)

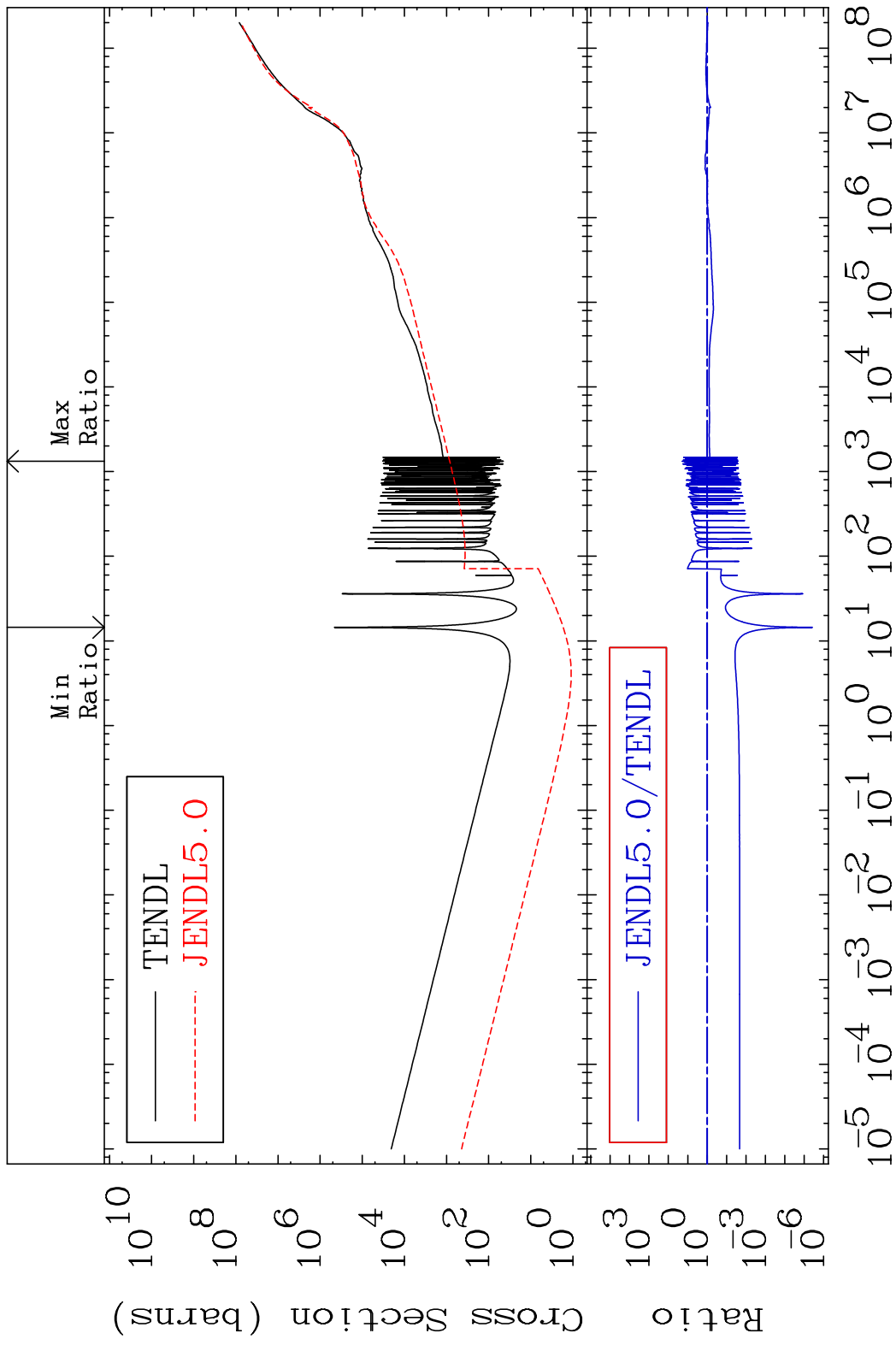
62-Sm-146

MAT 6231 Total photon (eV-barns) 62-Sm-146
 Cross Section -100.0 To 4444. %

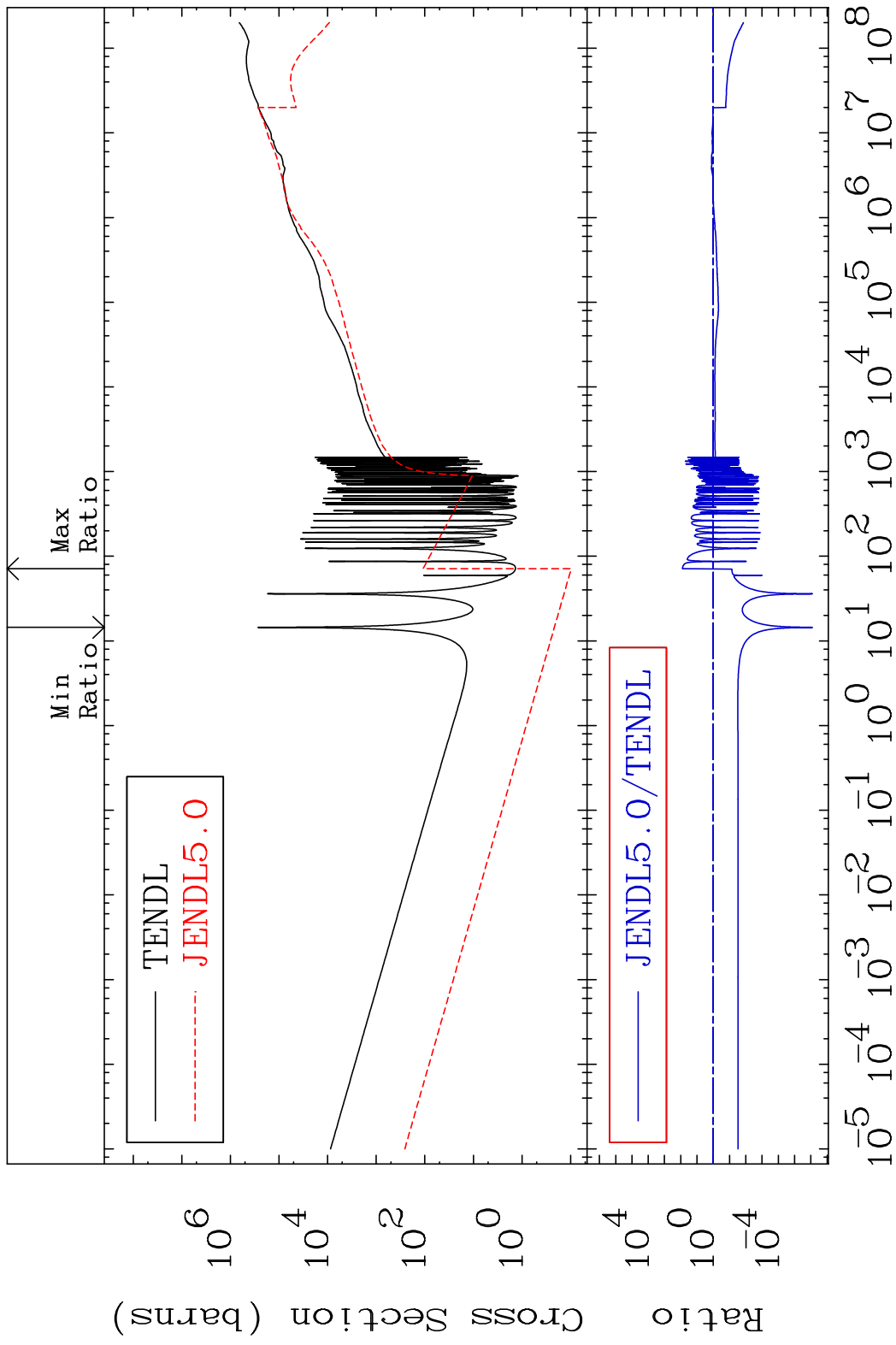


58 Incident Energy (eV) 62-Sm-146

MAT 6231 Total kinematic kerma (high limit) 62-Sm-146
 Cross Section -100.0 To 1801. %



MAT 6231 Dpa total (eV-barns) 62-Sm-146
Cross Section -100.0 To 7859. %



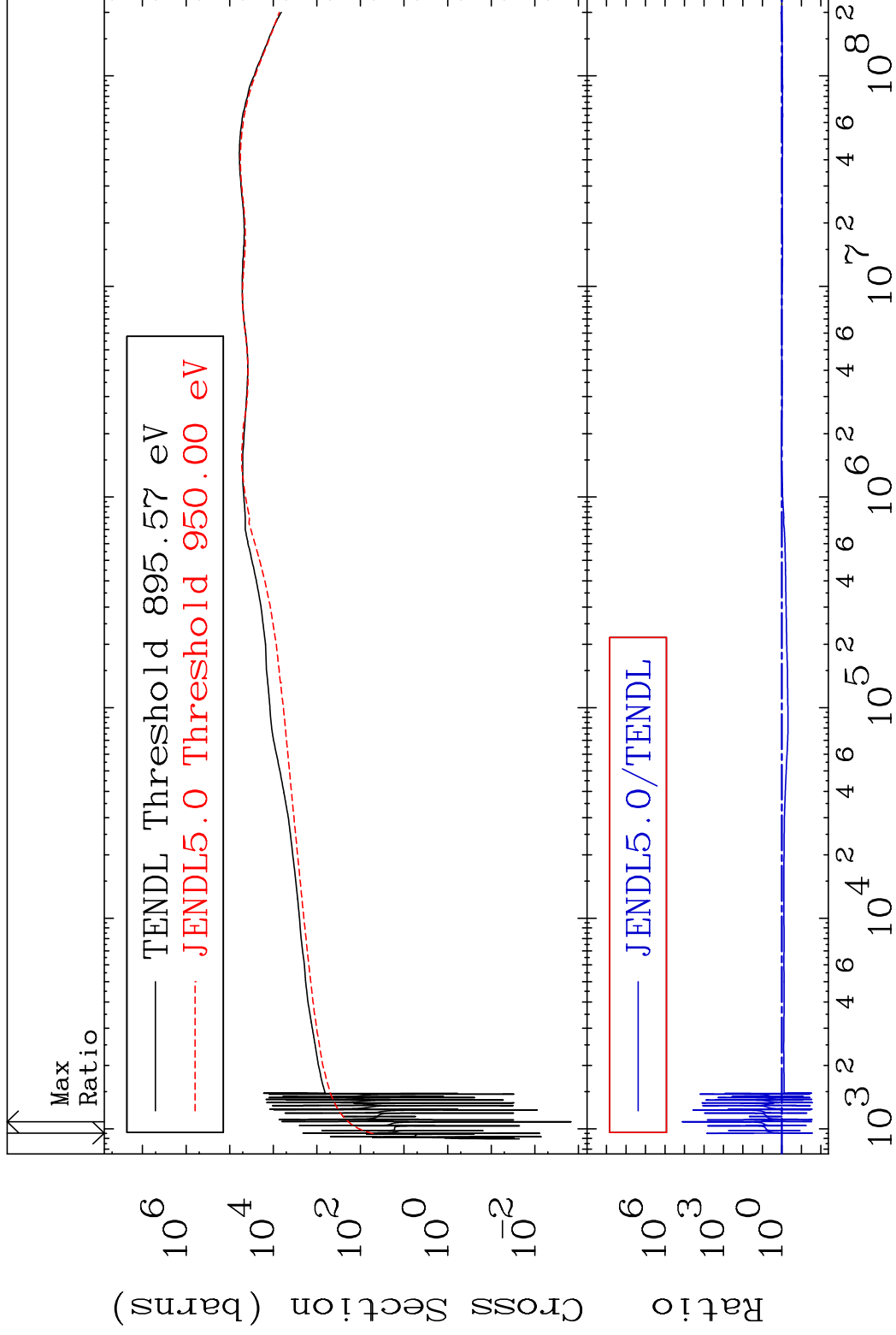
60 Incident Energy (eV) 62-Sm-146

MAT 6231

Dpa elastic (mt2)

62-Sm-146

Cross Section -97.33 To 9999. %

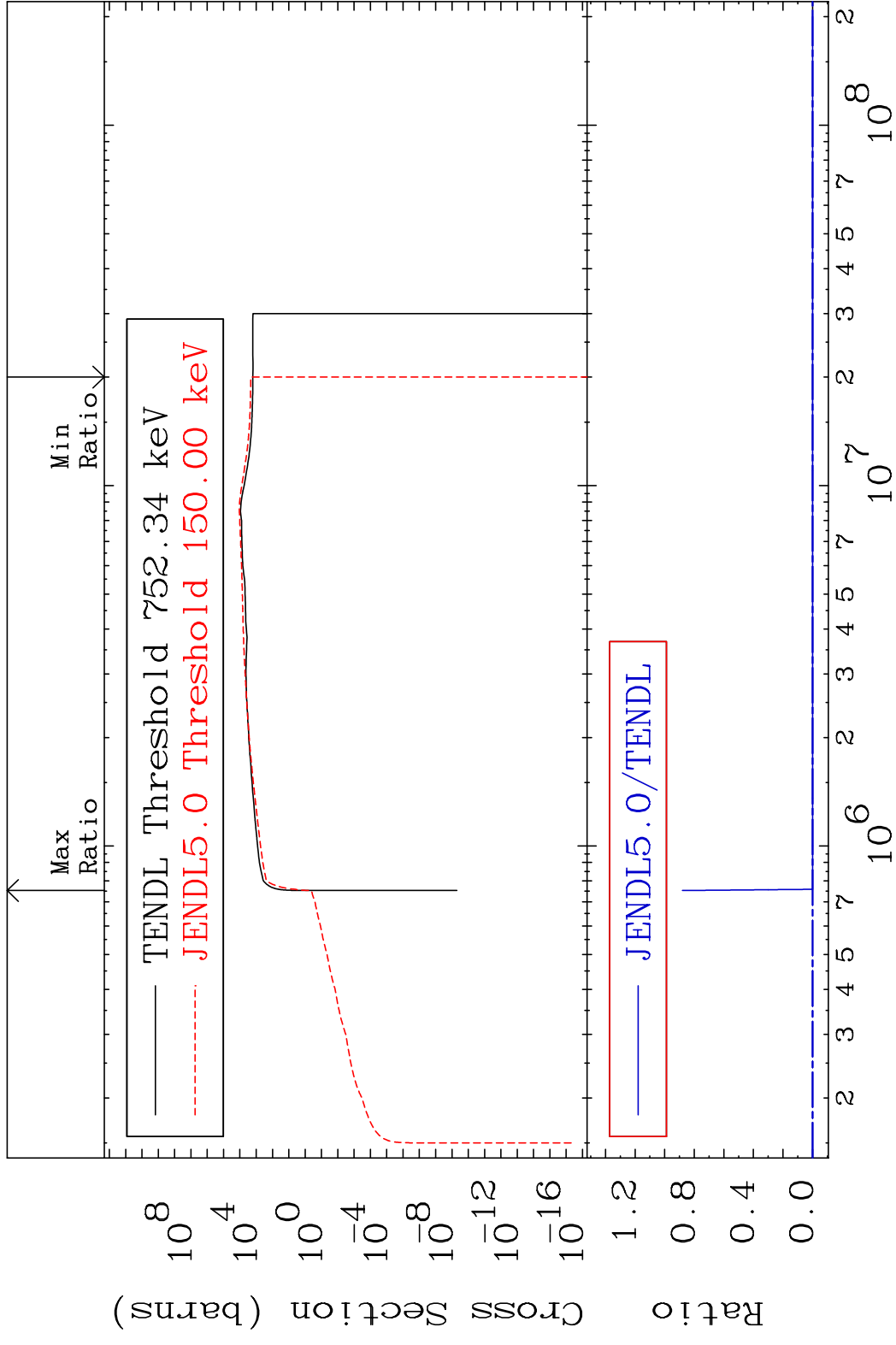


61

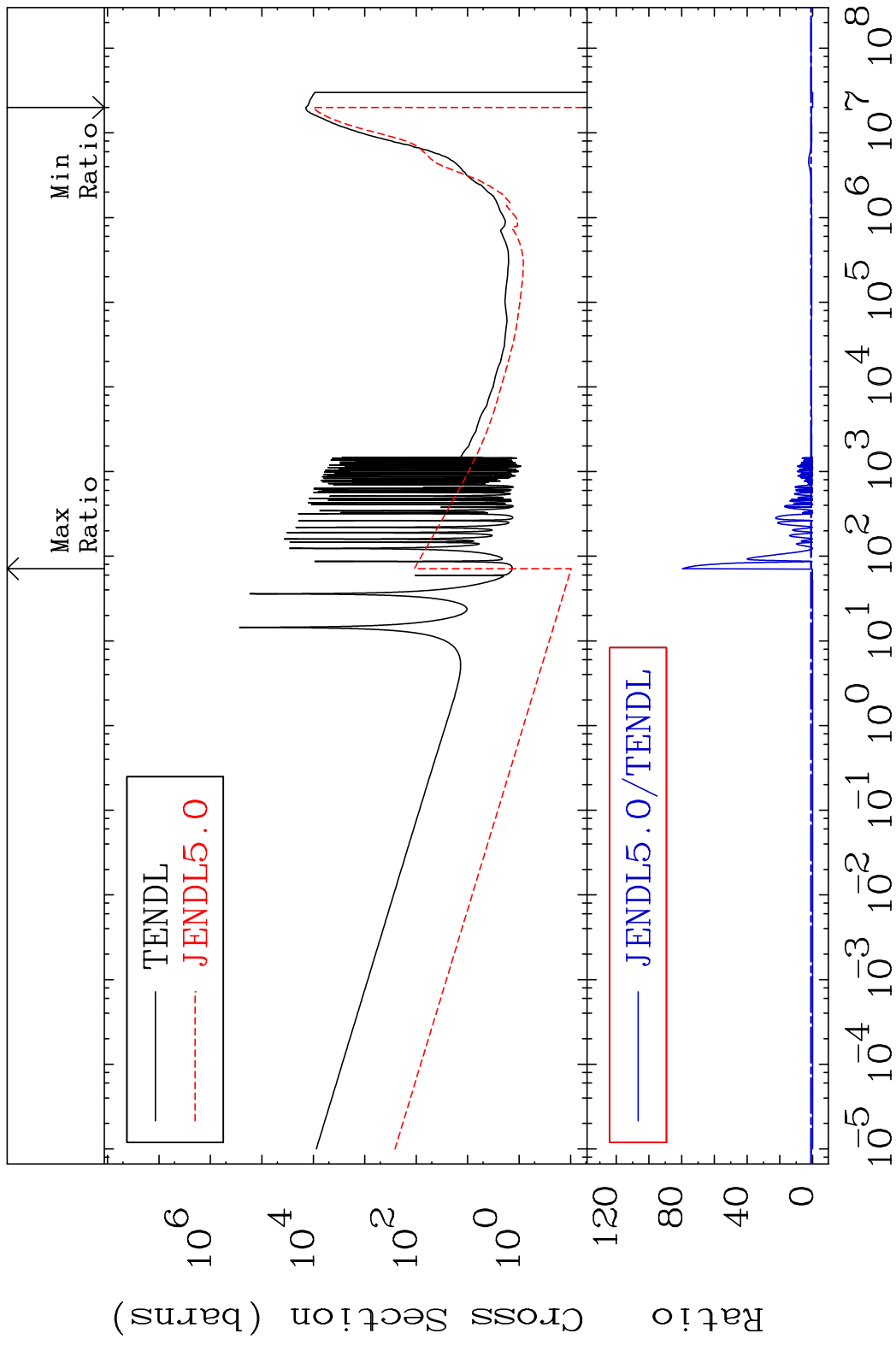
Incident Energy (eV)

62-Sm-146

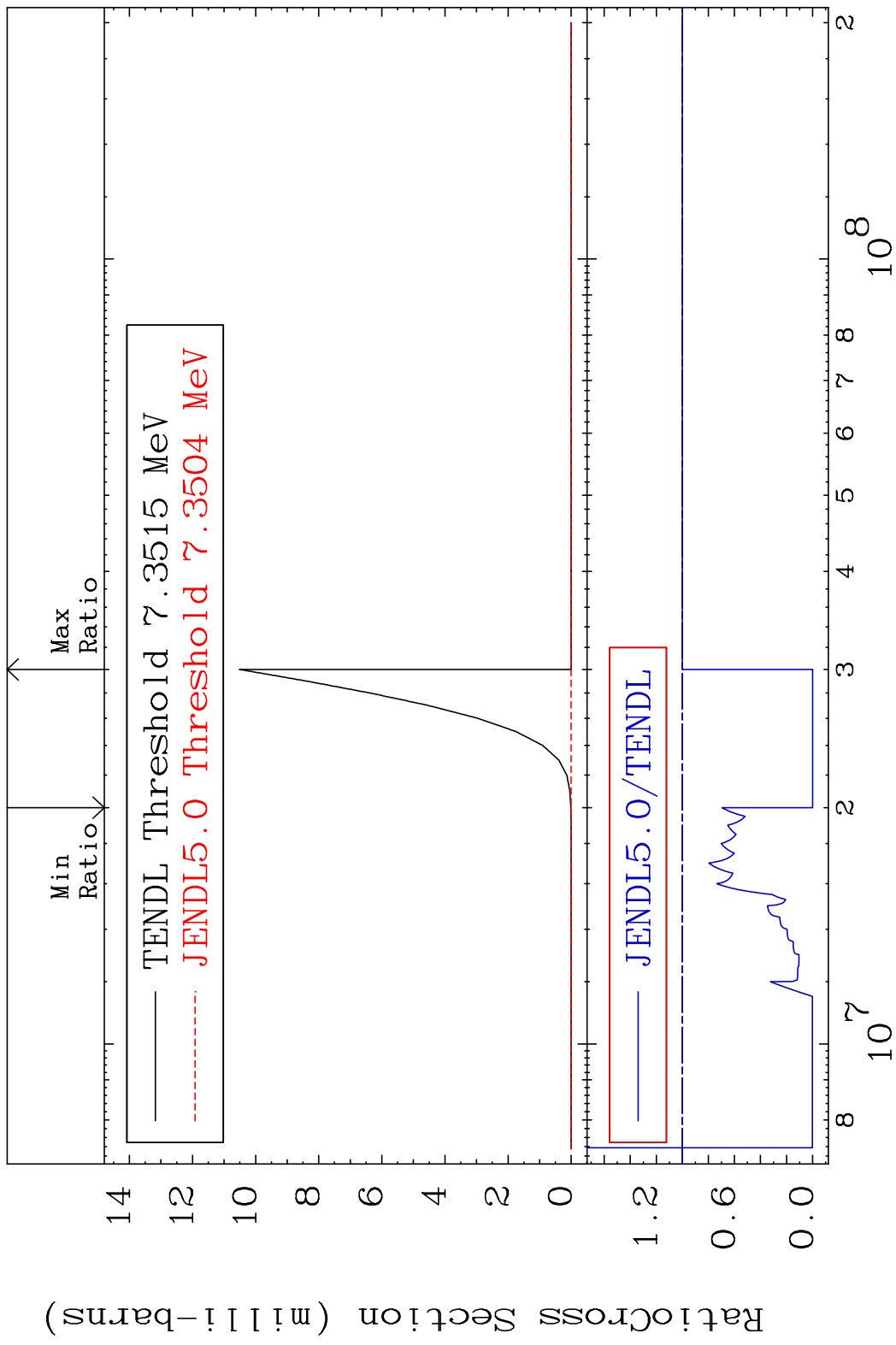
MAT 6231 Dpa inelastic (mt51-91) 62-Sm-146
 Cross Section -100.0 To 9999. %



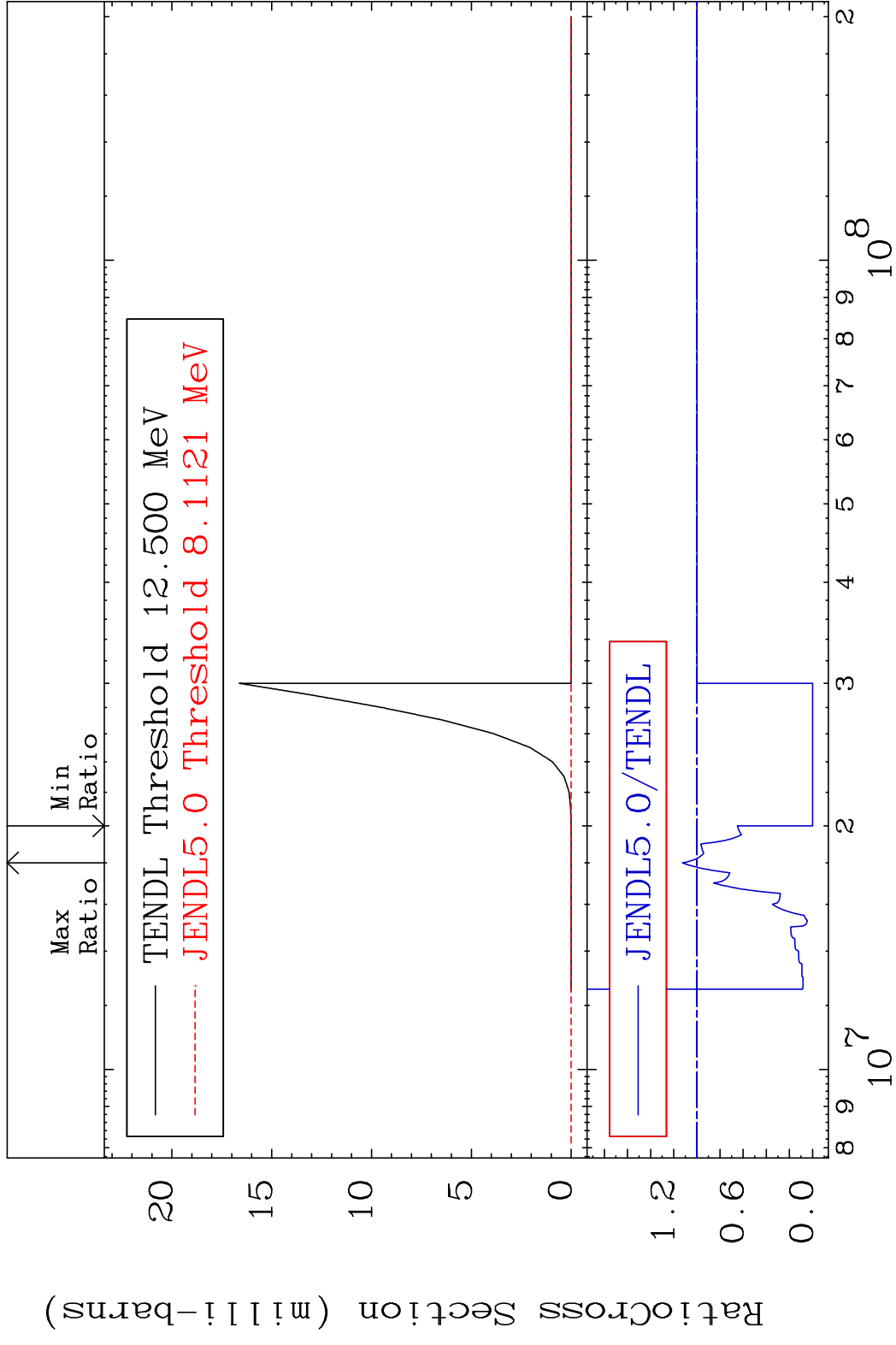
MAT 6231 Dpa disappearance (mt102 -120) 62-Sm-146
 Cross Section -100.0 To 7859. %



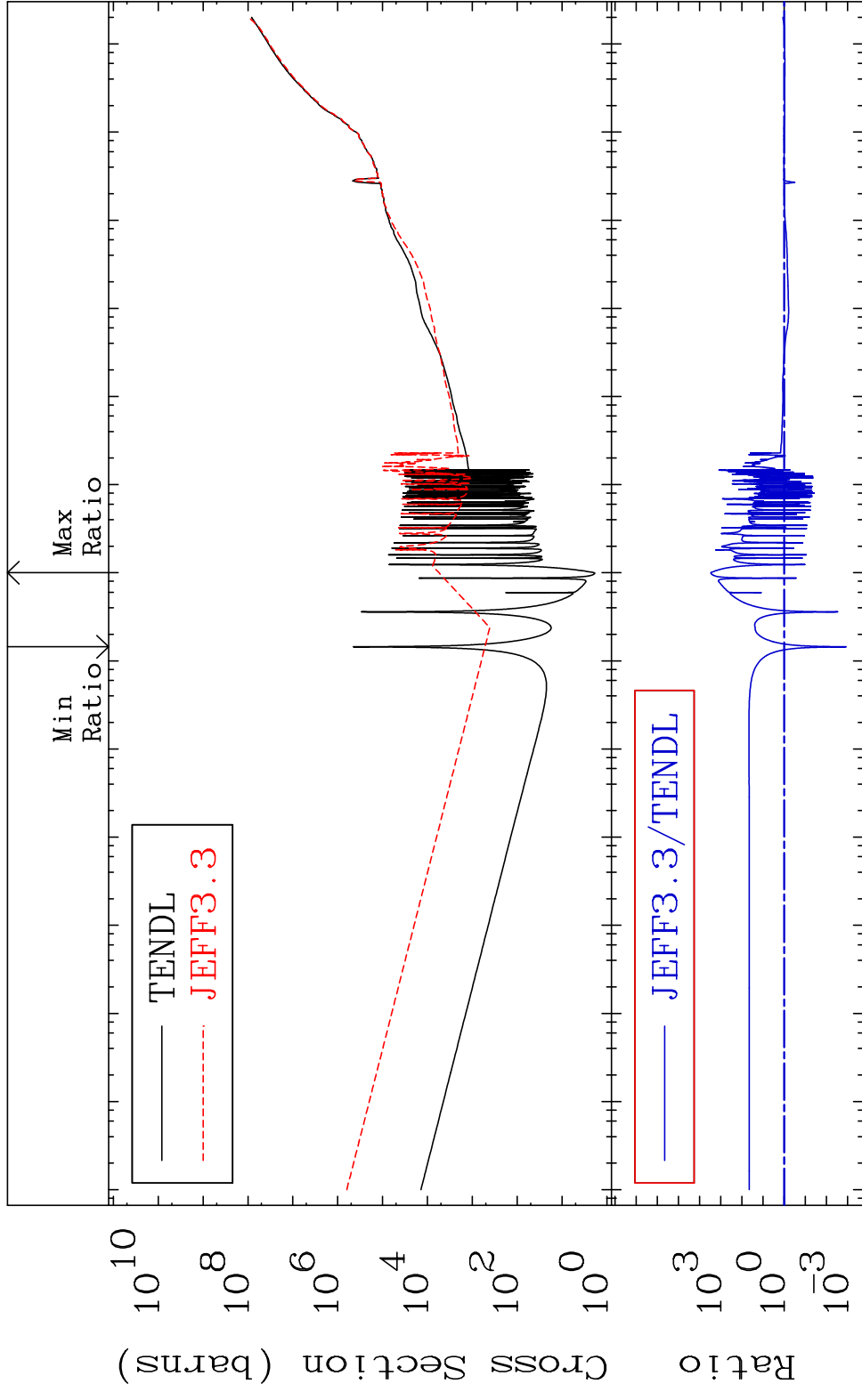
MAT 6231 (n,2n) α :60-Nd-141g 62-Sm-146
 Radionuclide Production Cross Section 180.0 dth 0.000 %



MAT 6231 (n,2n) α :60-Nd-141m2 62-Sm-146
 Radionuclide Production Cross Section 180.0 dth 12.55 %



MAT 6231 Kerma total (eV-barns) 62-Sm-146
 Cross Section -99.89 To 9999. %



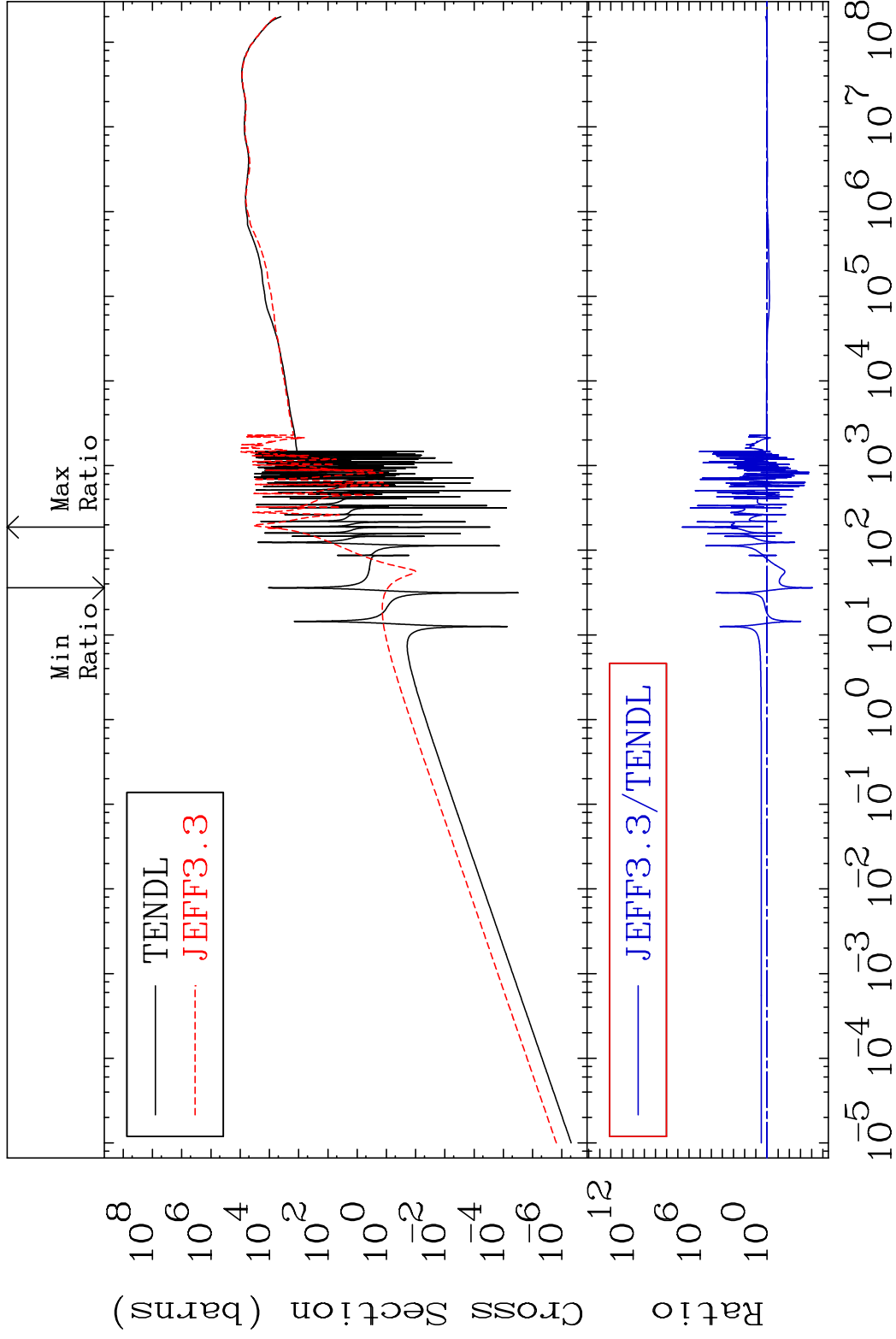
10¹⁰
 10⁸
 10⁶
 10⁴
 10²
 10⁰
 Cross Section (barns)

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
 Incident Energy (eV)

MAT 6231

Kerma elastic
Cross Section

62-Sm-146
-99.99 To 9999. %

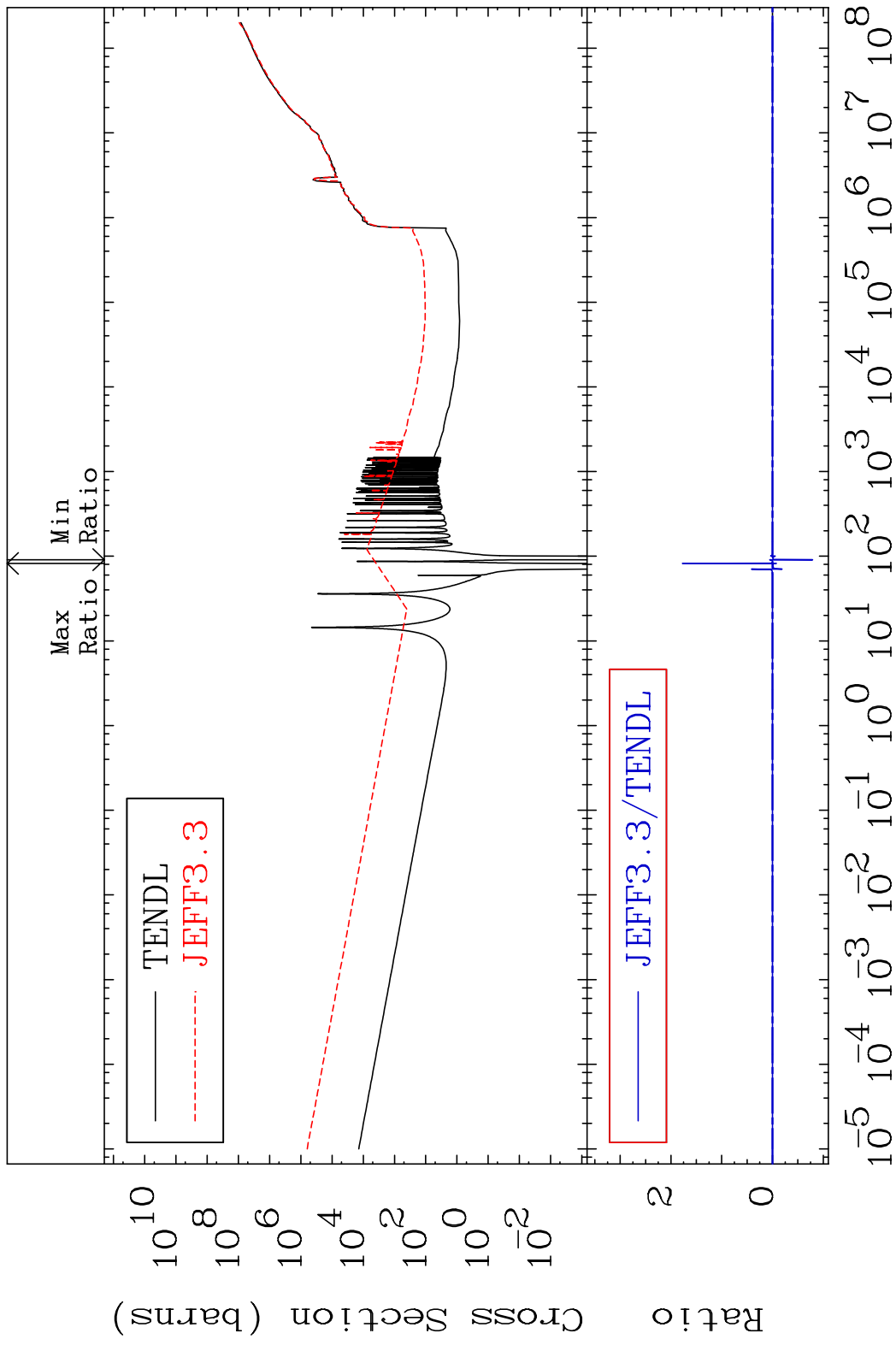


67

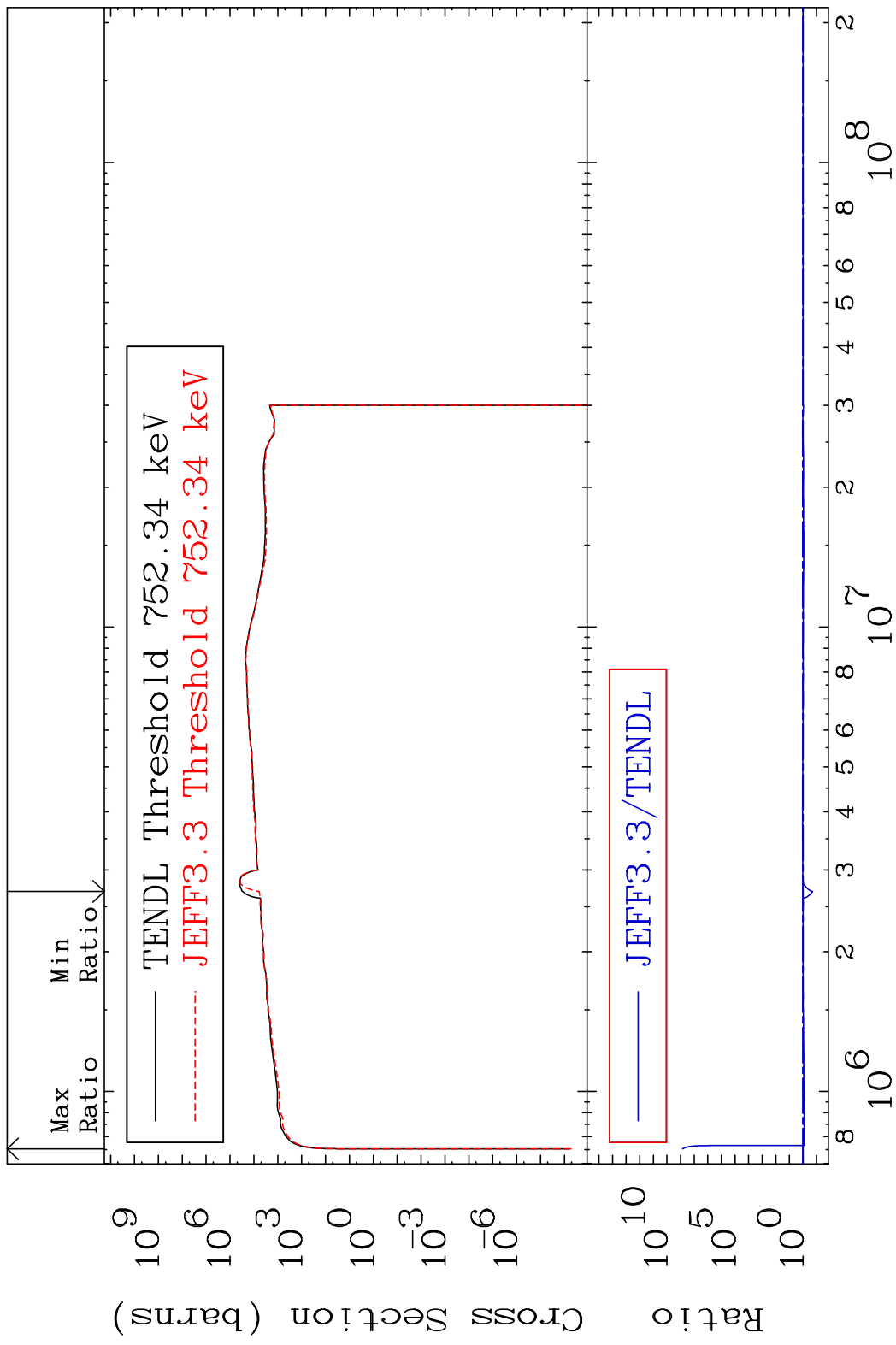
Incident Energy (eV)

62-Sm-146

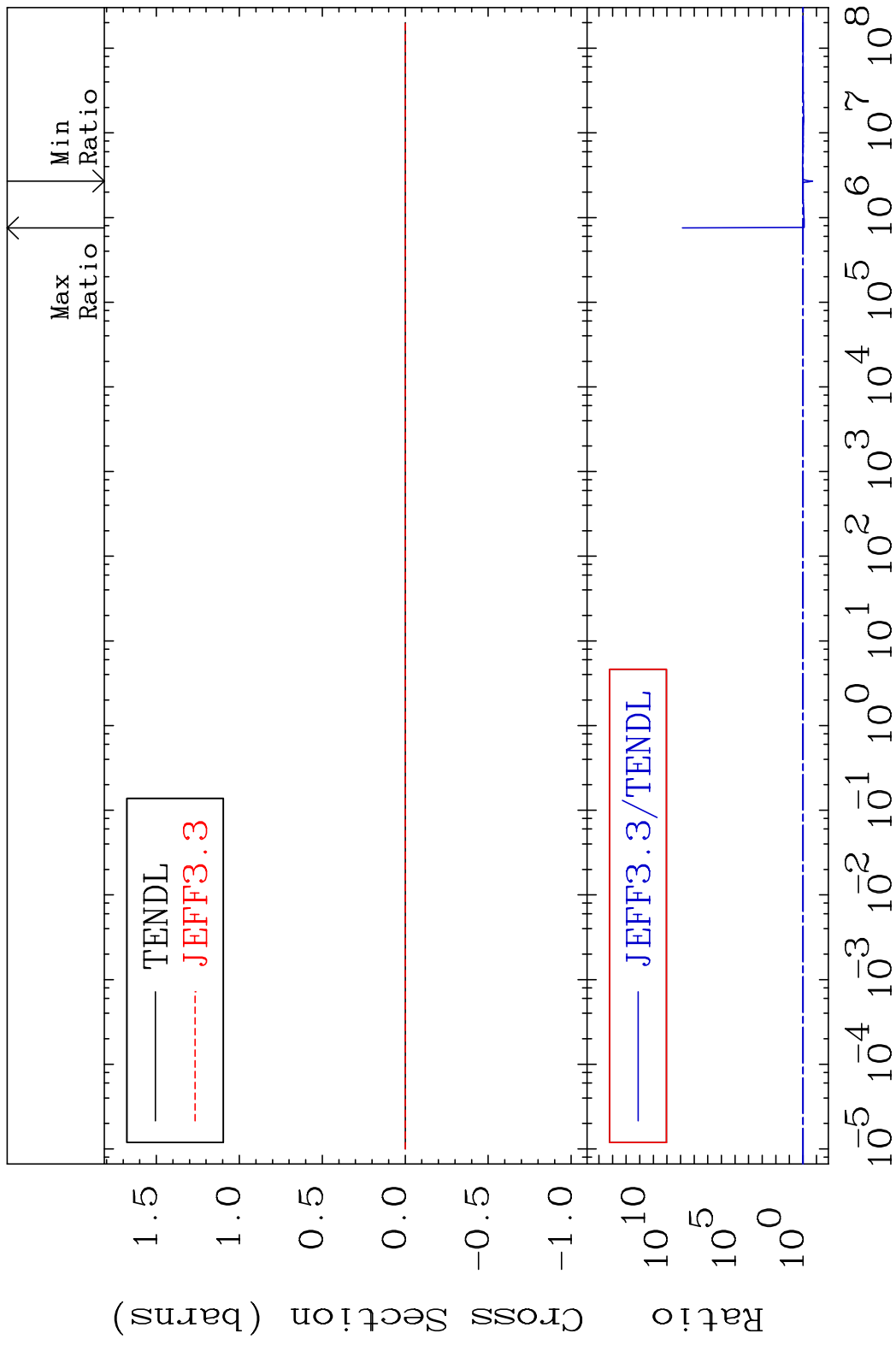
MAT 6231 Kerma non-elastic (all but mt2) 62-Sm-146
 Cross Section -9999. To 9999. %



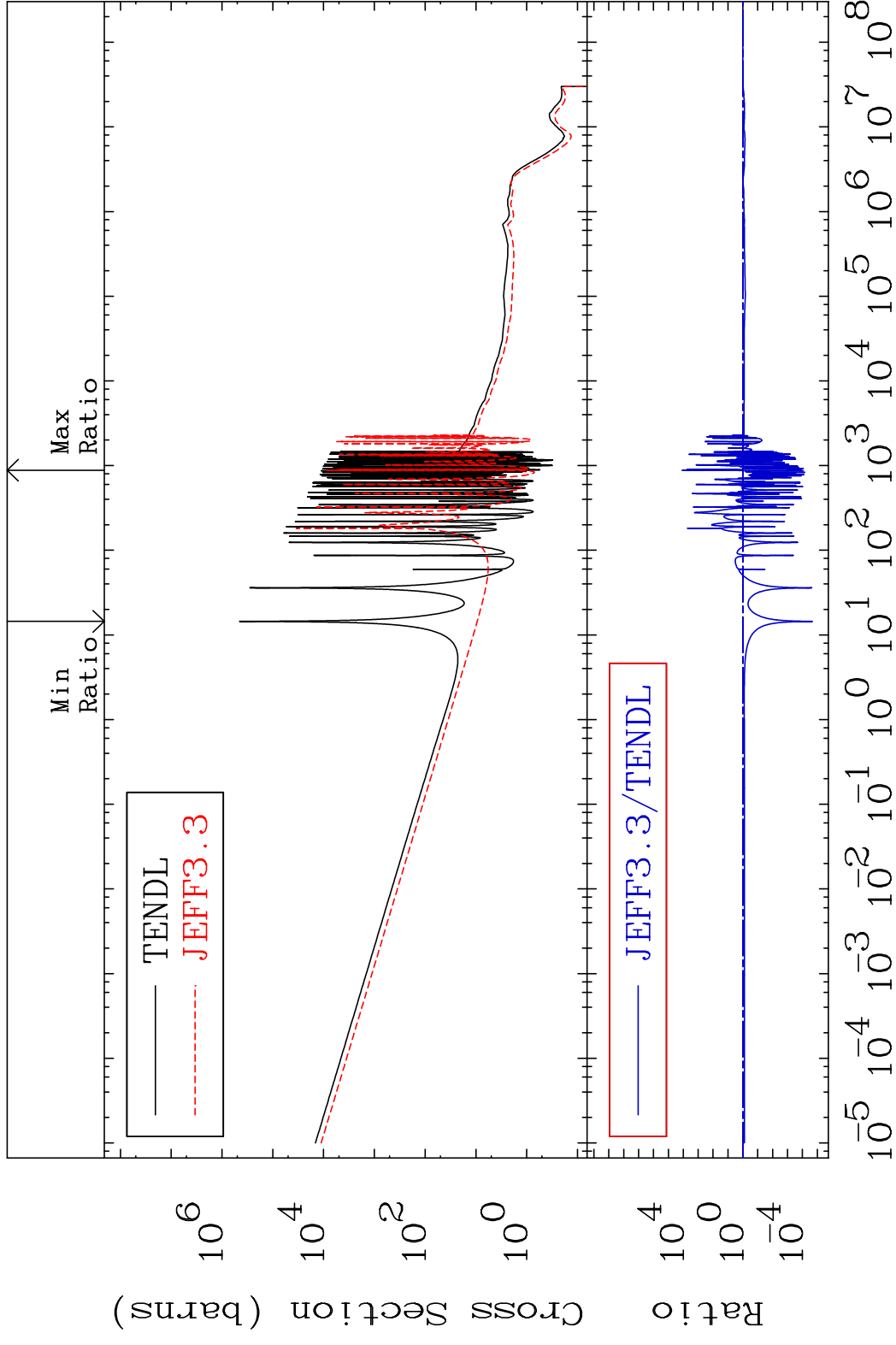
MAT 6231 Kerma inelastic (mt51-91) 62-Sm-146
 Cross Section -80.20 To 9999. %



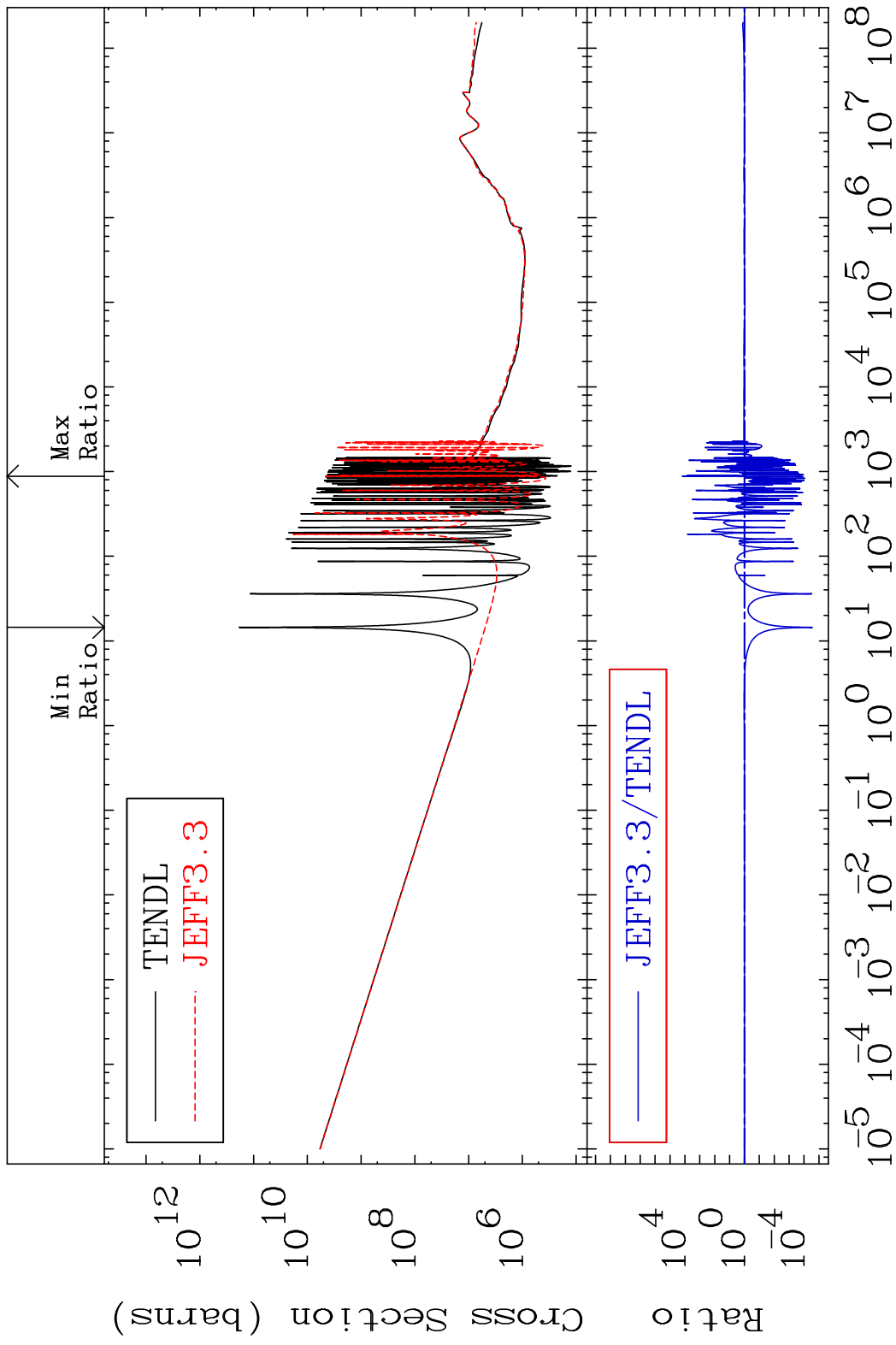
MAT 6231 Kerma fission (mt18 or mt19-20-21-38)62-Sm-146
 Cross Section -80.20 To 9999. %



MAT 6231 Kerma capture (mt102) 62-Sm-146
 Cross Section -100.0 To 9999. %

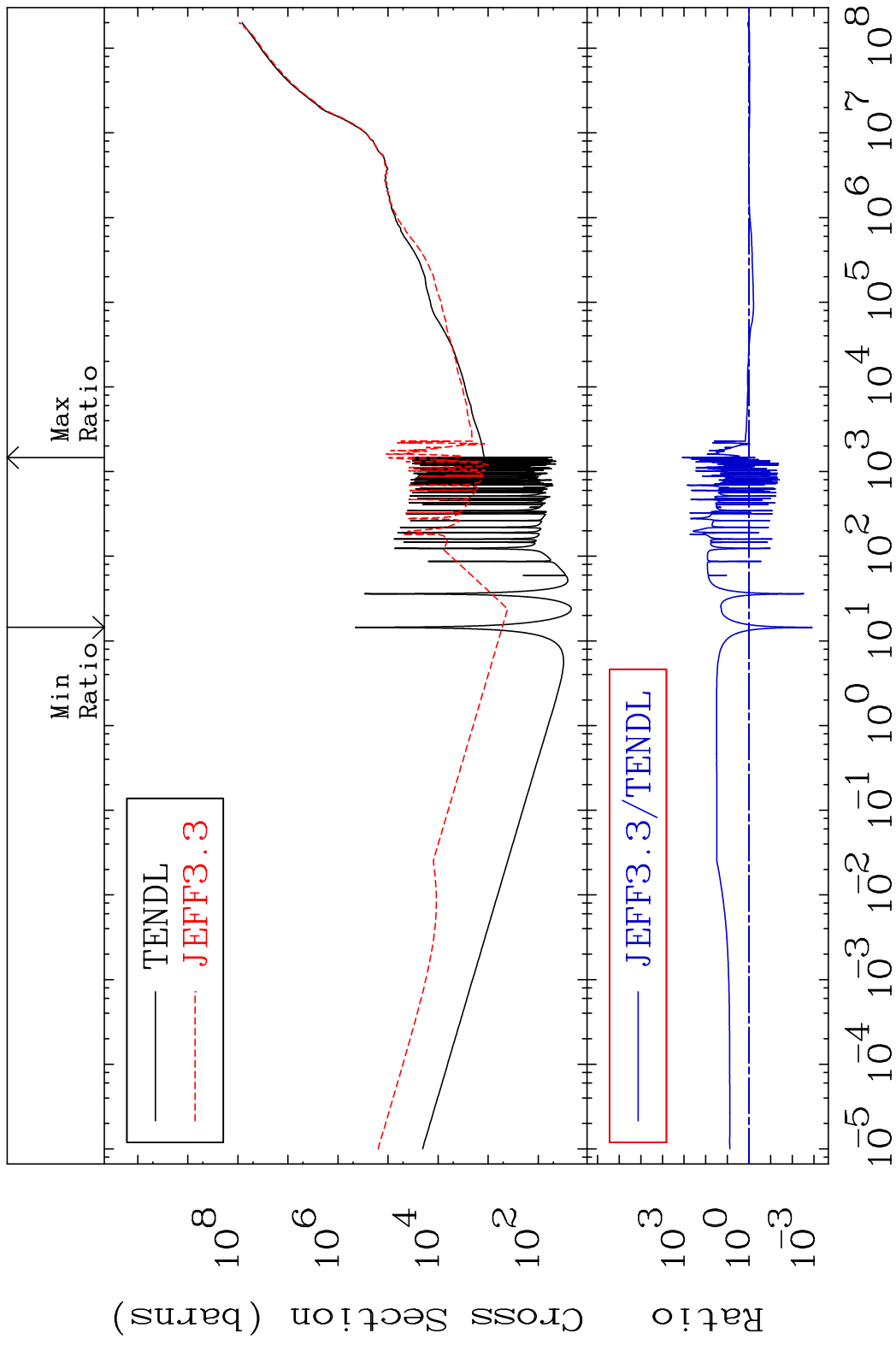


MAT 6231 Total photon (eV-barns) 62-Sm-146
 Cross Section -100.0 To 9999. %



72 Incident Energy (eV) 62-Sm-146

MAT 6231 Total kinematic kerma (high limit) 62-Sm-146
 Cross Section -99.89 To 9999. %

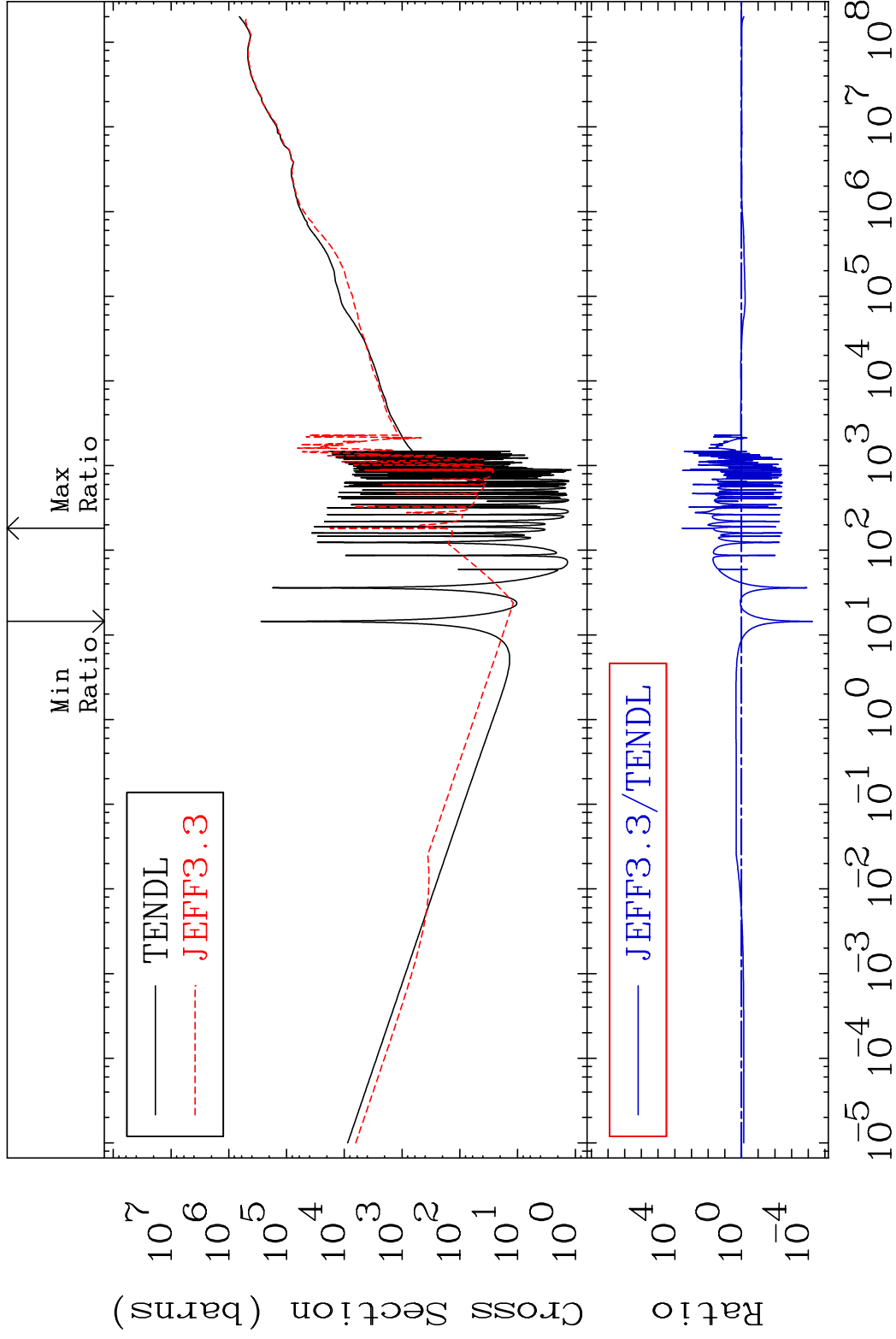


MAT 6231

Dpa total (eV-barns)

62-Sm-146

Cross Section -99.99 To 9999. %



74

Incident Energy (eV)

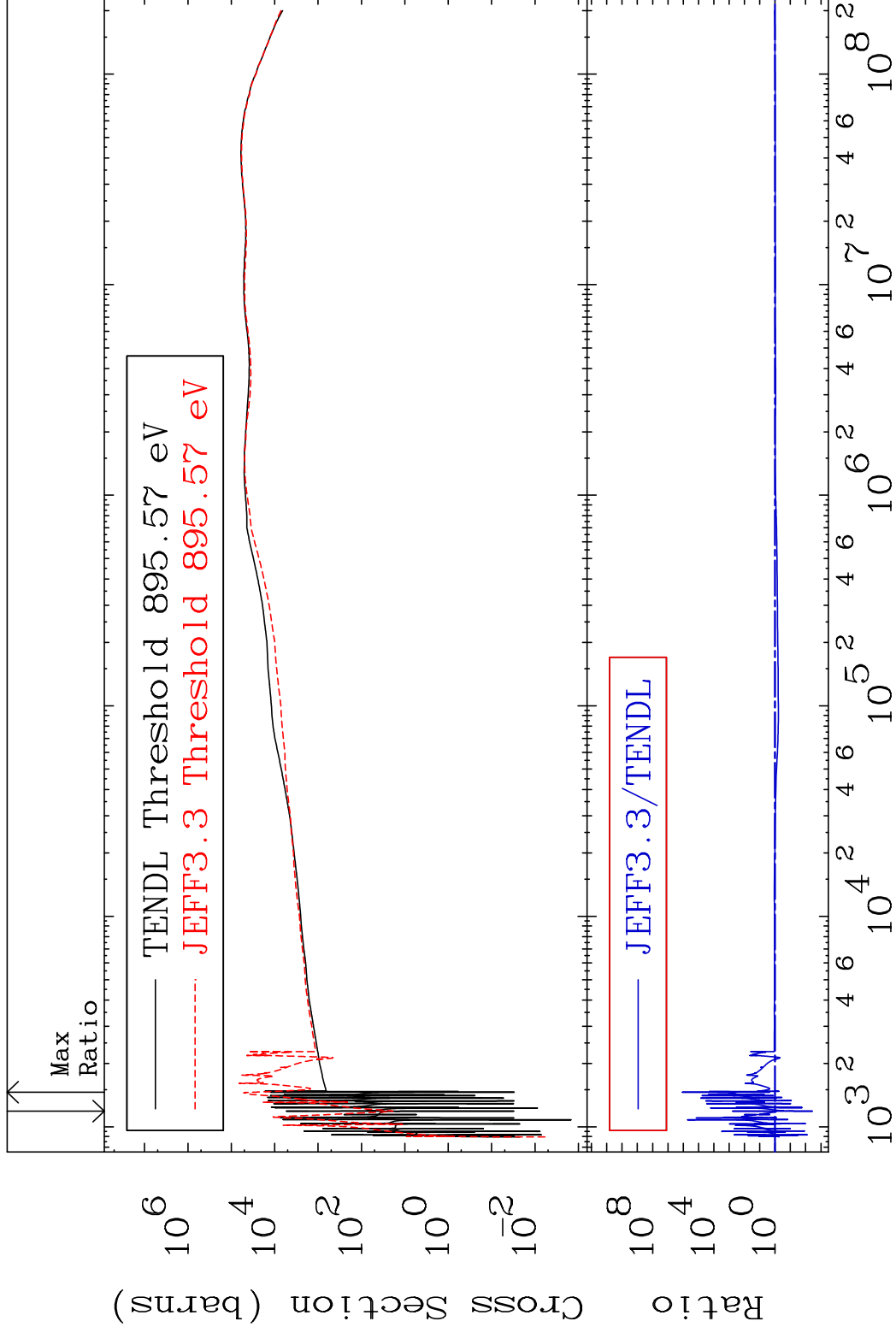
62-Sm-146

MAT 6231

Dpa elastic (mt2)

62-Sm-146

Cross Section -99.65 To 9999. %

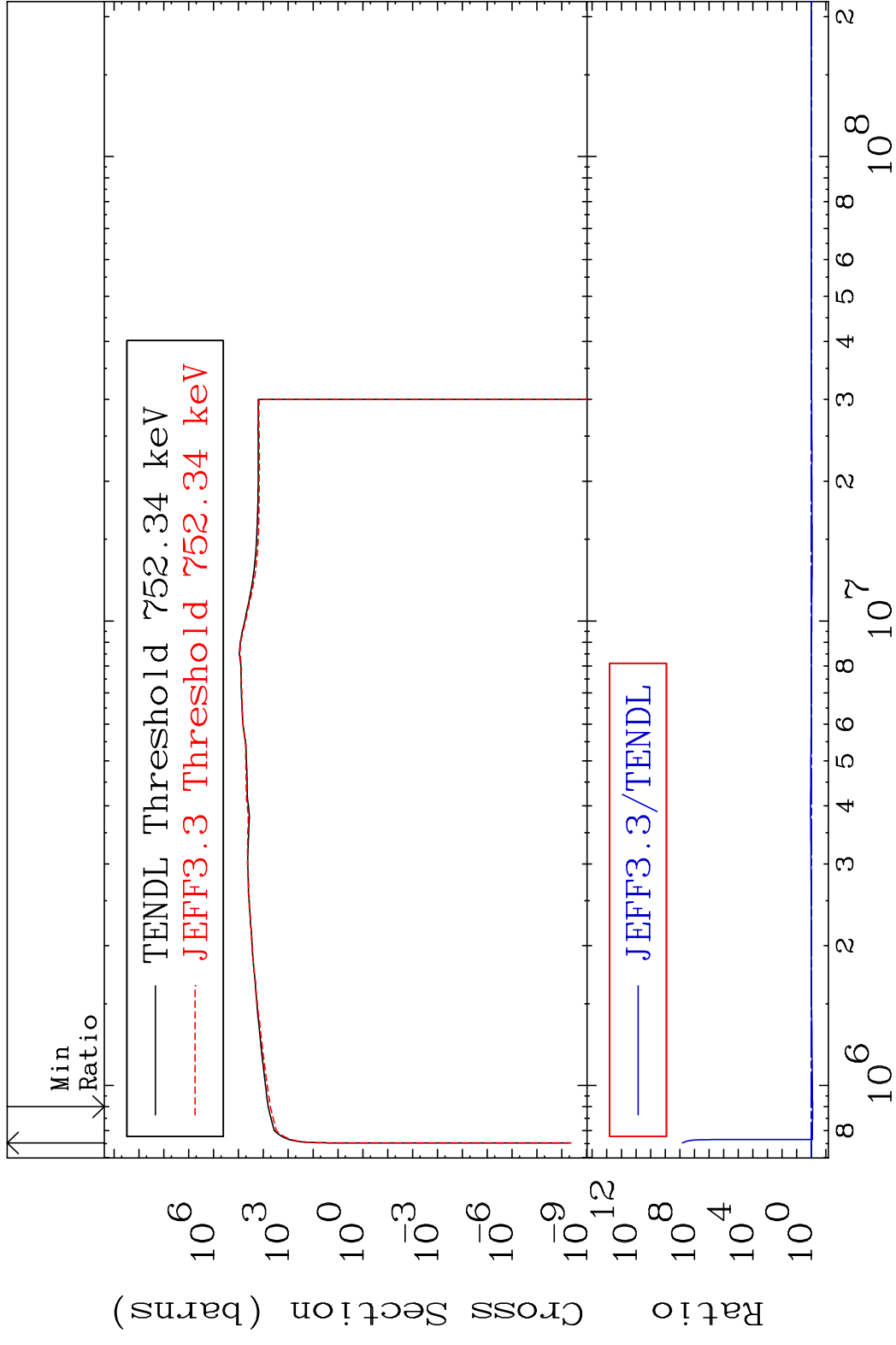


75

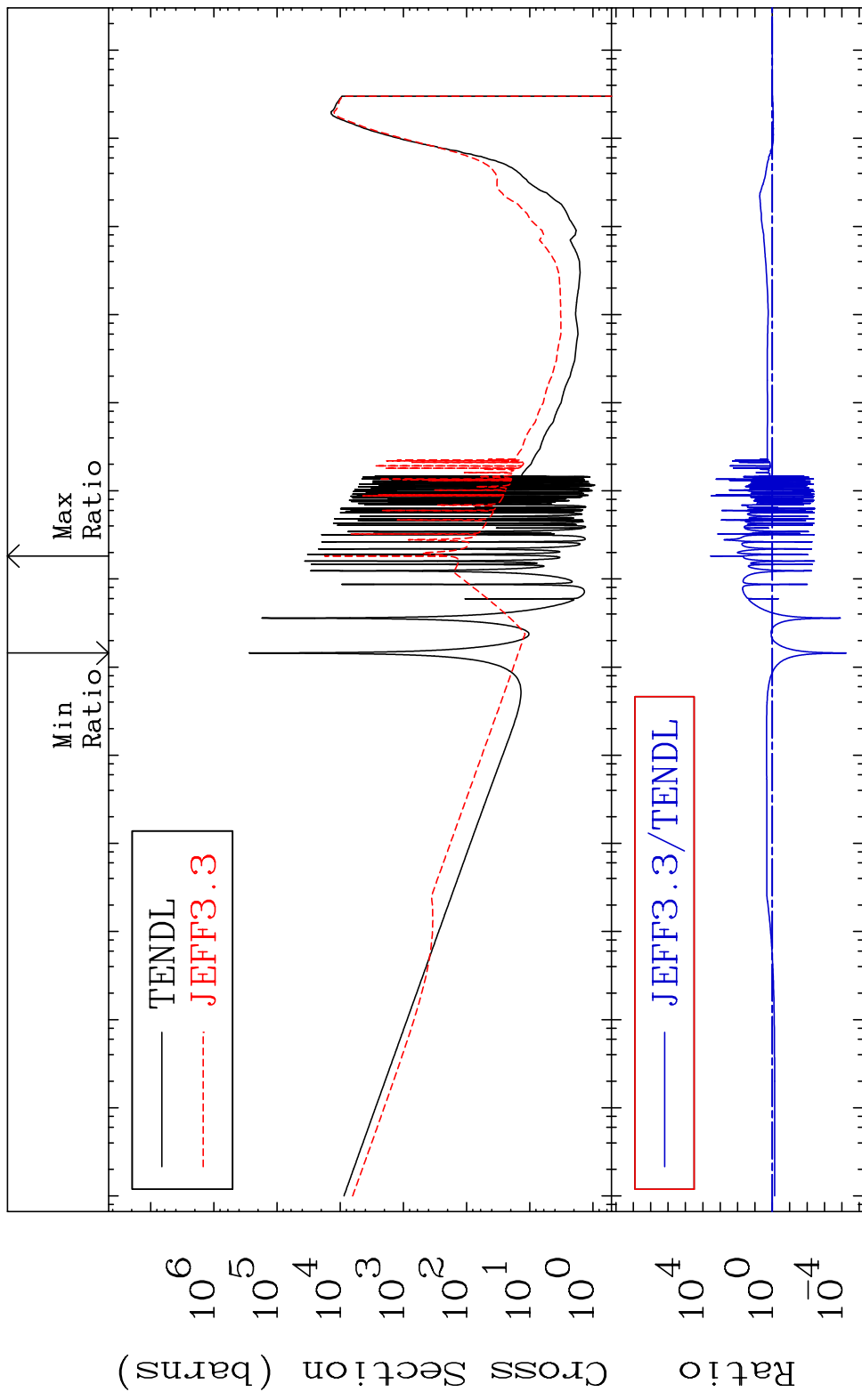
Incident Energy (eV)

62-Sm-146

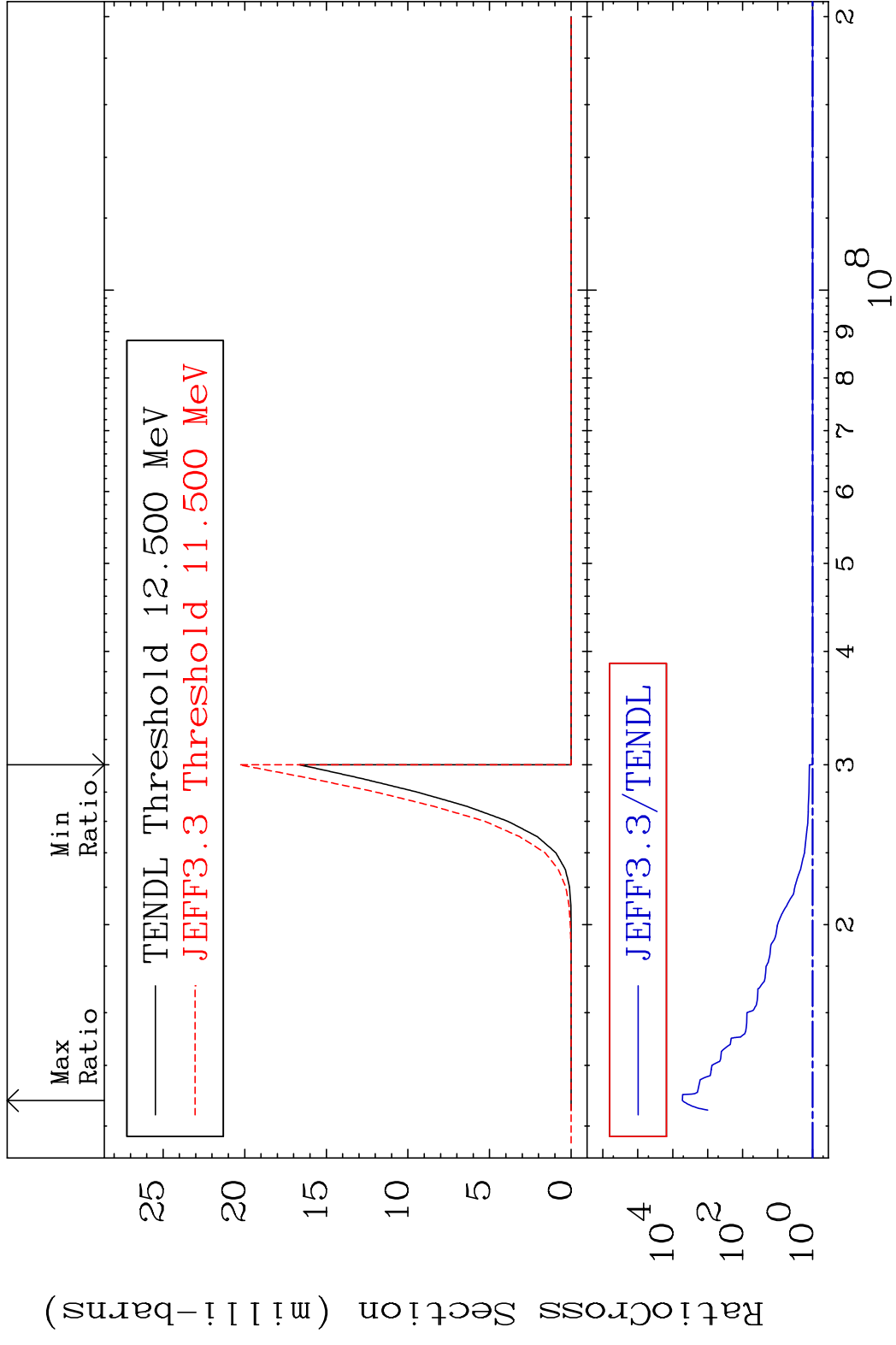
MAT 6231 Dpa inelastic (mt51-91) 62-Sm-146
 Cross Section -18.94 To 9999. %



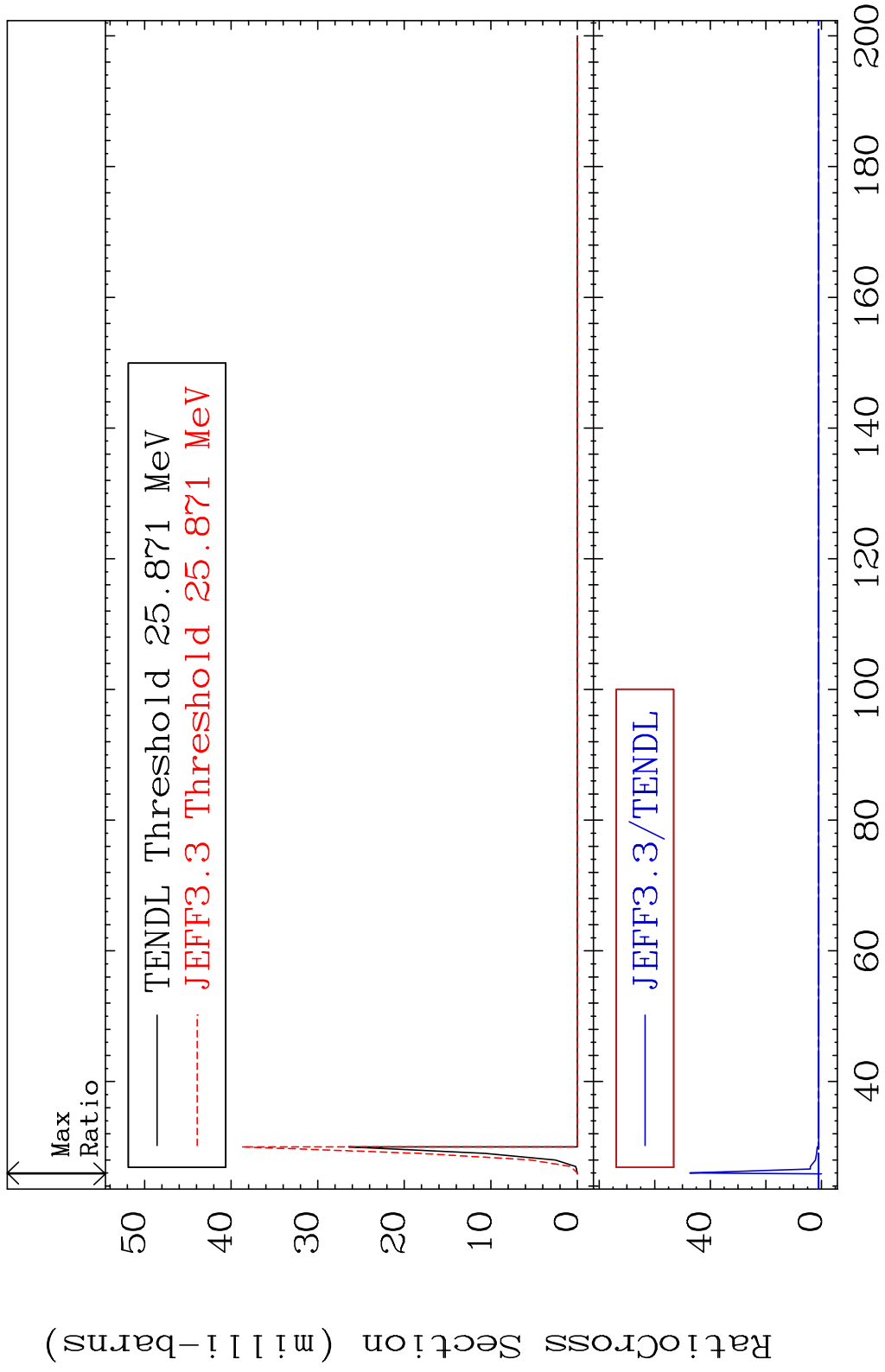
MAT 6231 Dpa disappearance (mt102 -120) 62-Sm-146
 Cross Section -99.99 To 9999. %



77 Incident Energy (eV) 62-Sm-146



MAT 6231 (n,4n):62-Sm-143g 62-Sm-146
 Radionuclide Production Cross Section Ratio 4637. %



80 Incident Energy (MeV) 62-Sm-146

MAT 6231 (n, 4n):62-Sm-143m2 62-Sm-146
 Radionuclide Production Cross Section Ratio 2168. %

