

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

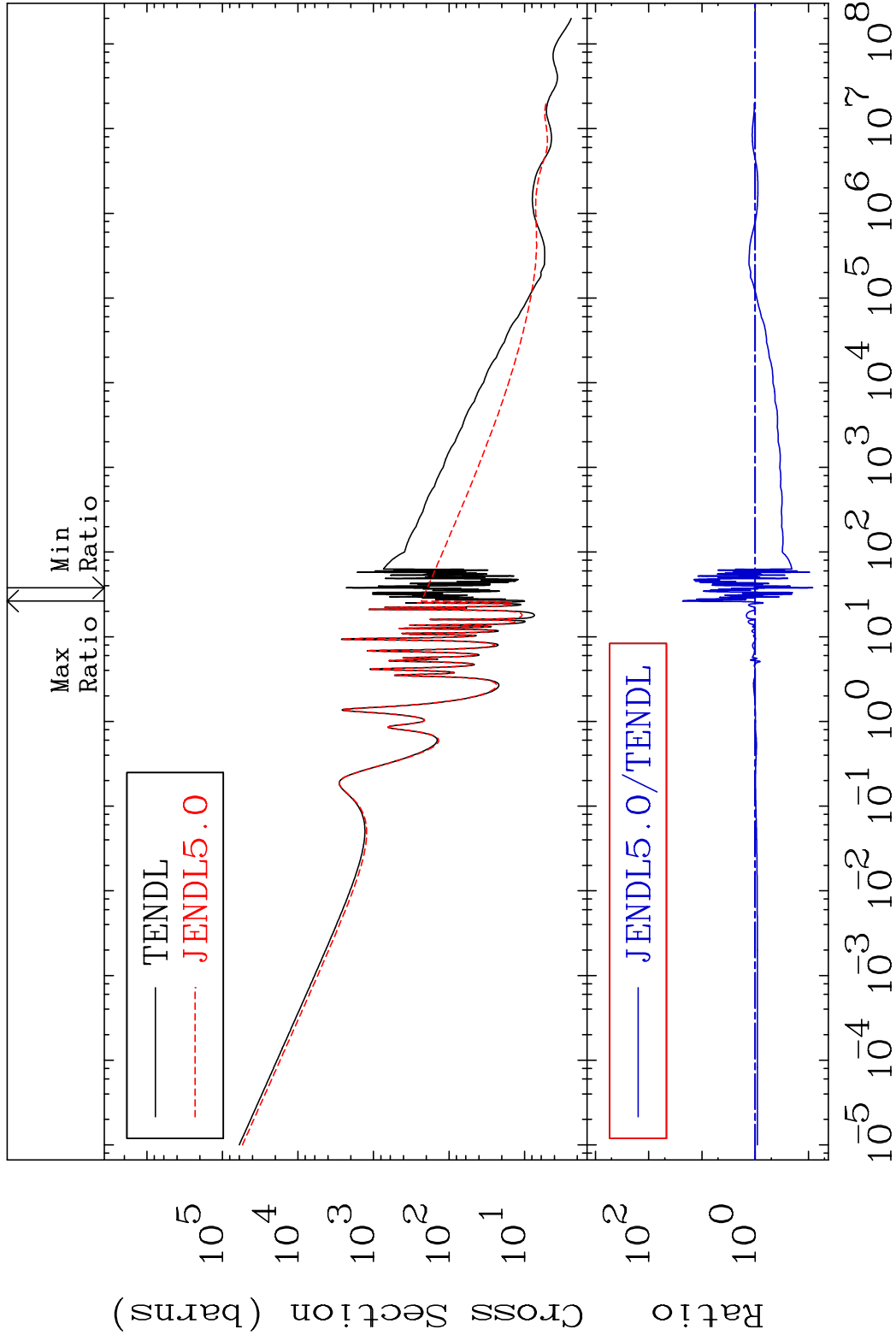
Press Mouse Button to Start

MAT 6334

Total

63-Eu-154

Cross Section -91.61 To 2234. %



1

Incident Energy (eV)

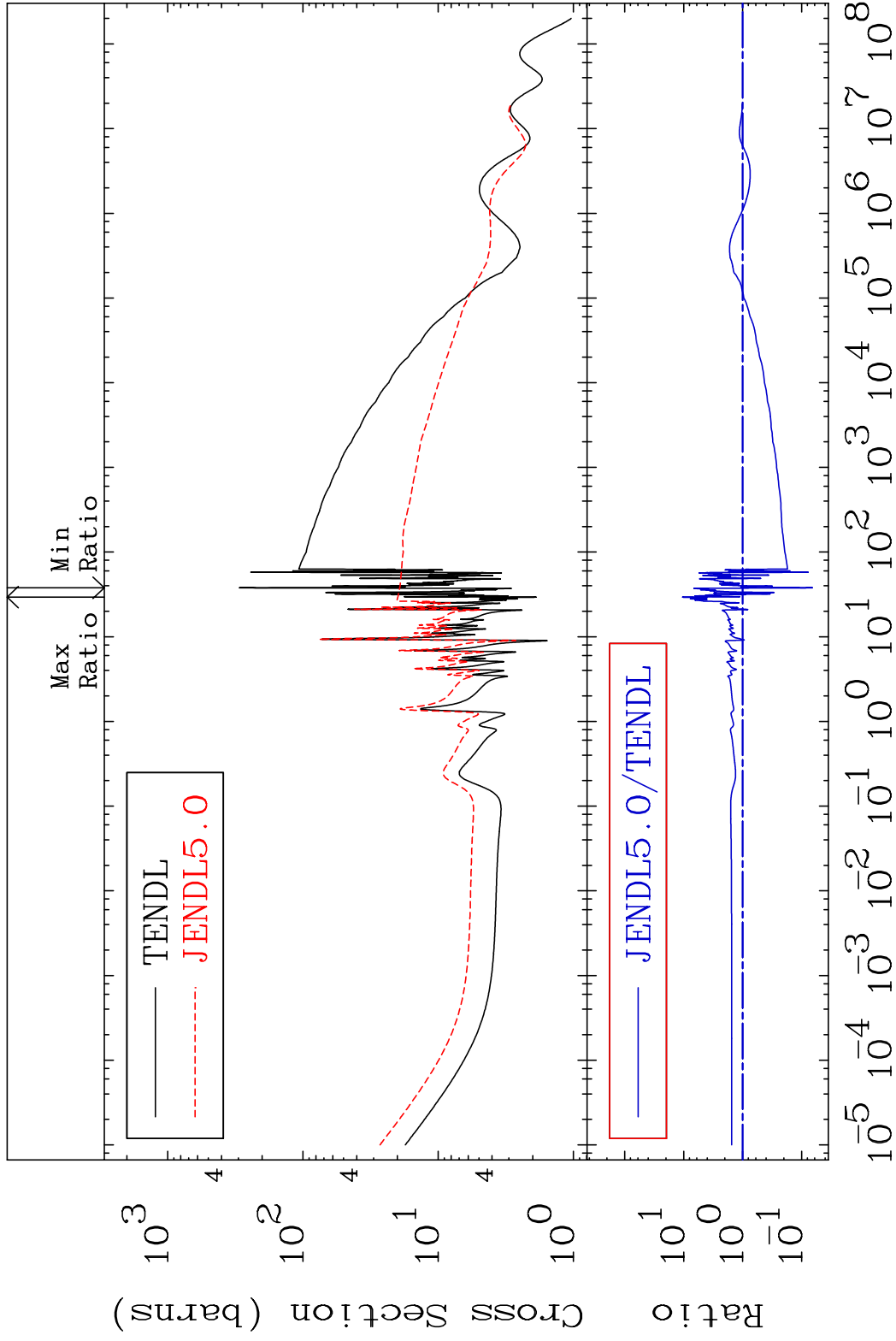
63-Eu-154

MAT 6334

Elastic

63-Eu-154

Cross Section -93.49 To 953.9 %



2

Incident Energy (eV)

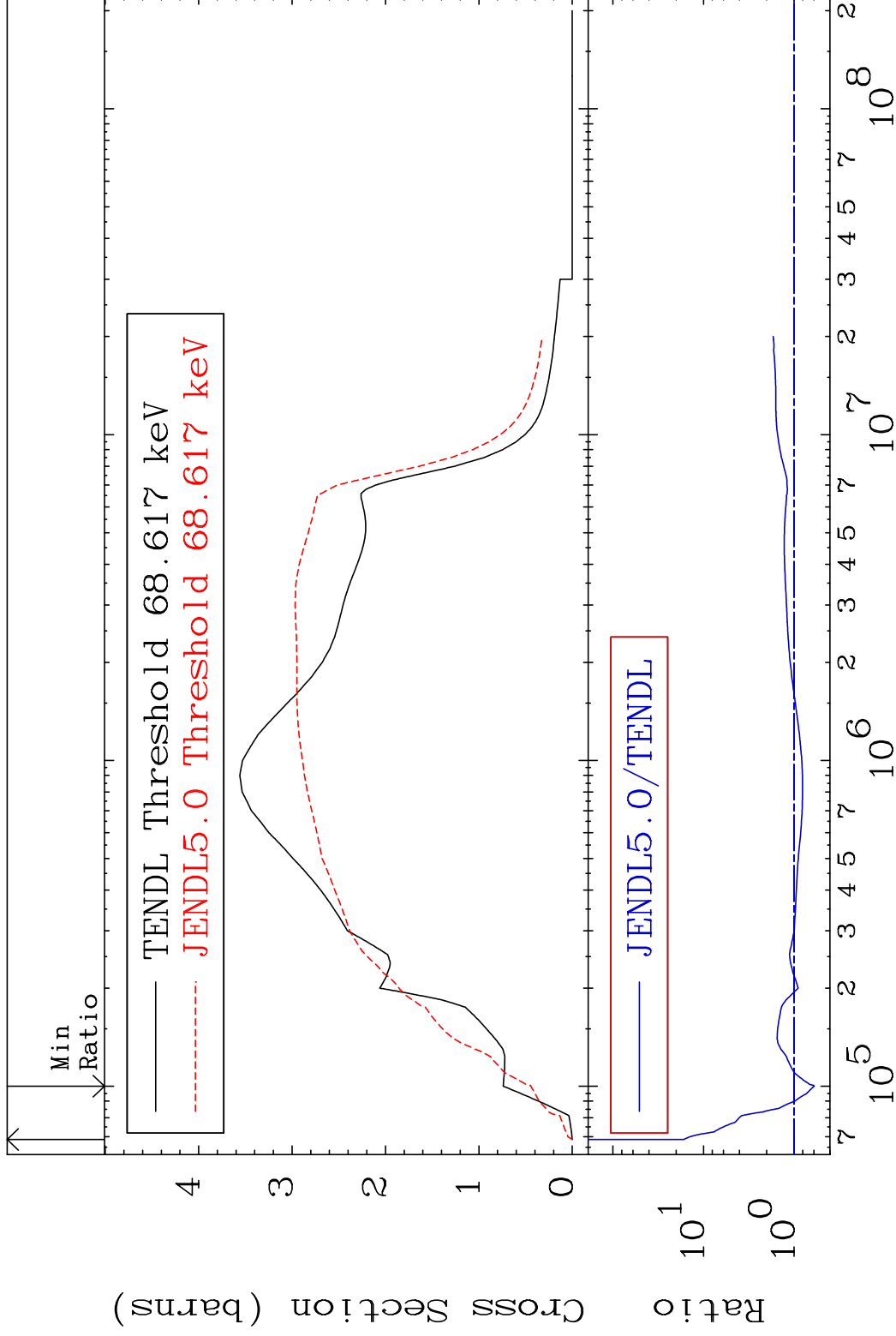
63-Eu-154

MAT 6334

Inelastic

63-Eu-154

Cross Section -40.12 To 1555. %



3

Incident Energy (eV)

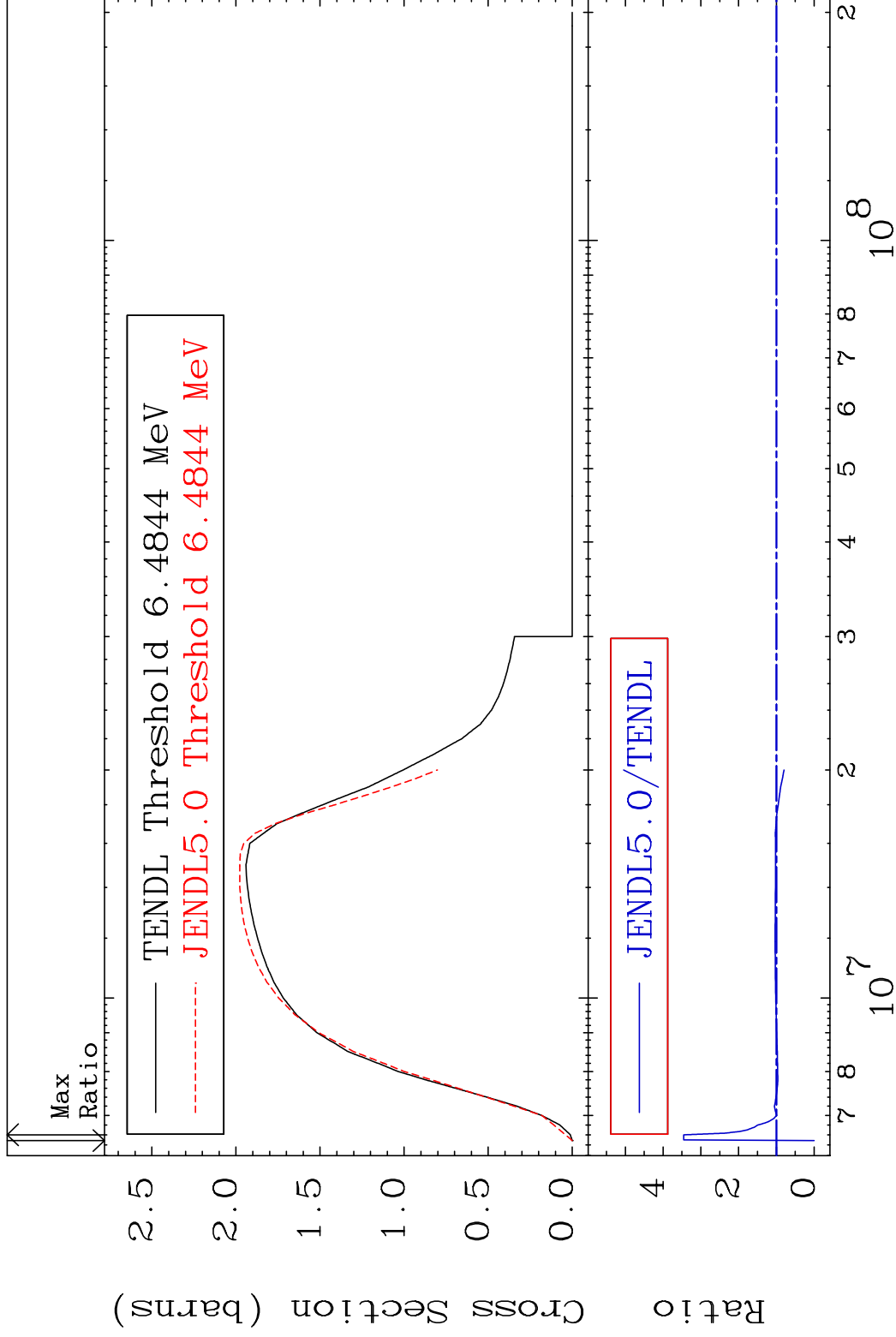
63-Eu-154

MAT 6334

(n,2n)

63-Eu-154

Cross Section -100.0 To 245.5 %



4

Incident Energy (eV)

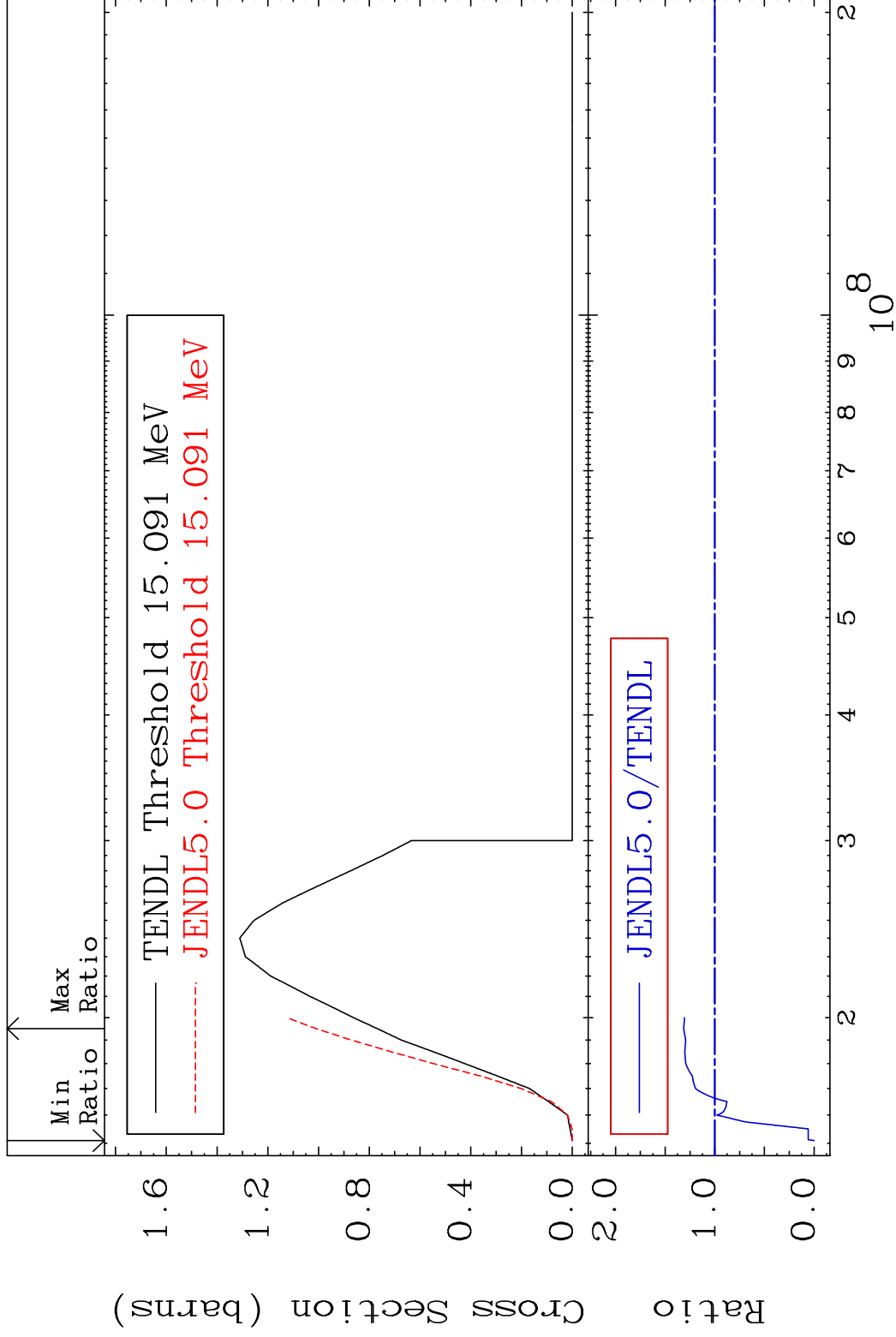
63-Eu-154

MAT 6334

(n,3n)

63-Eu-154

Cross Section -100.0 To 31.36 %

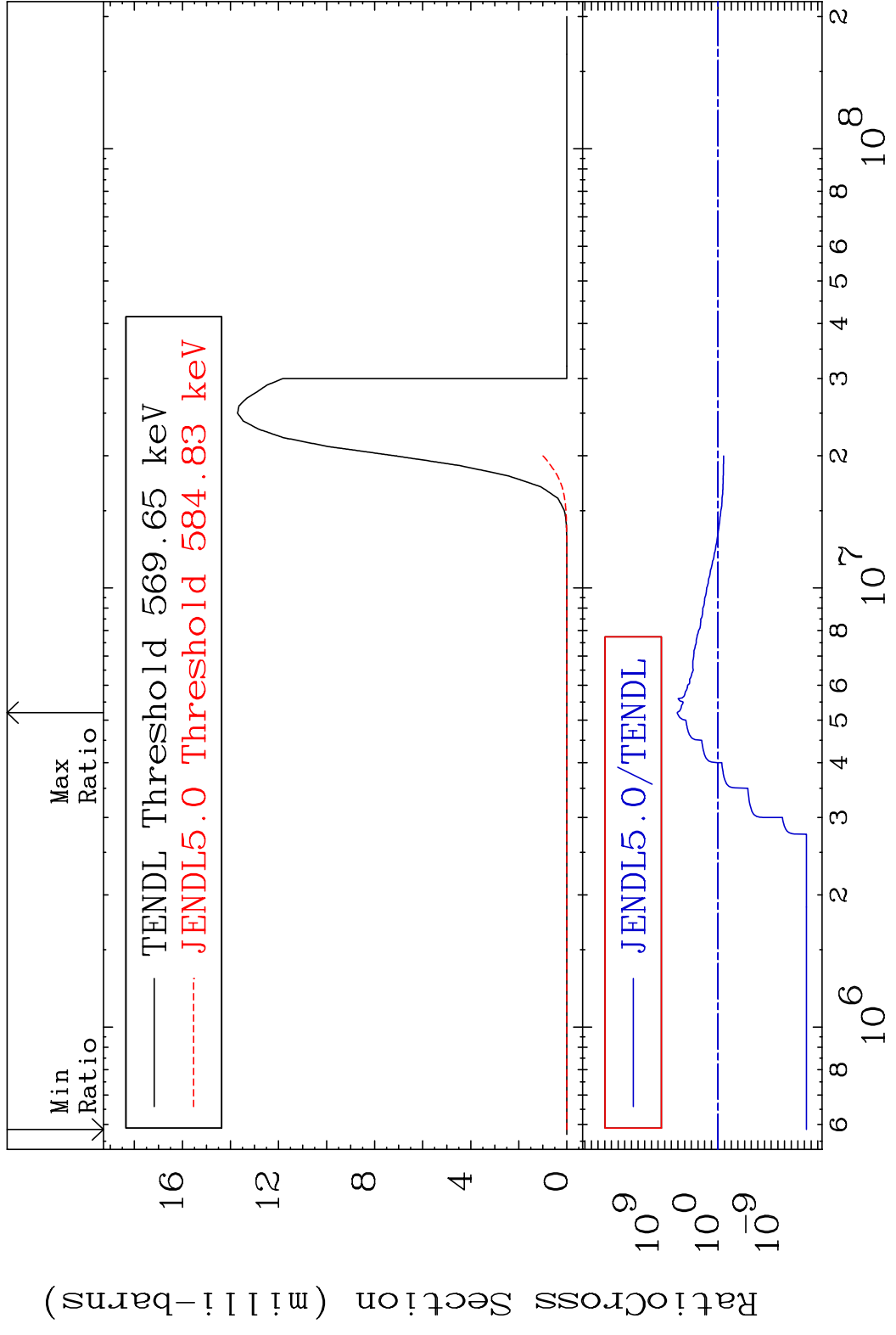


5

Incident Energy (eV)

63-Eu-154

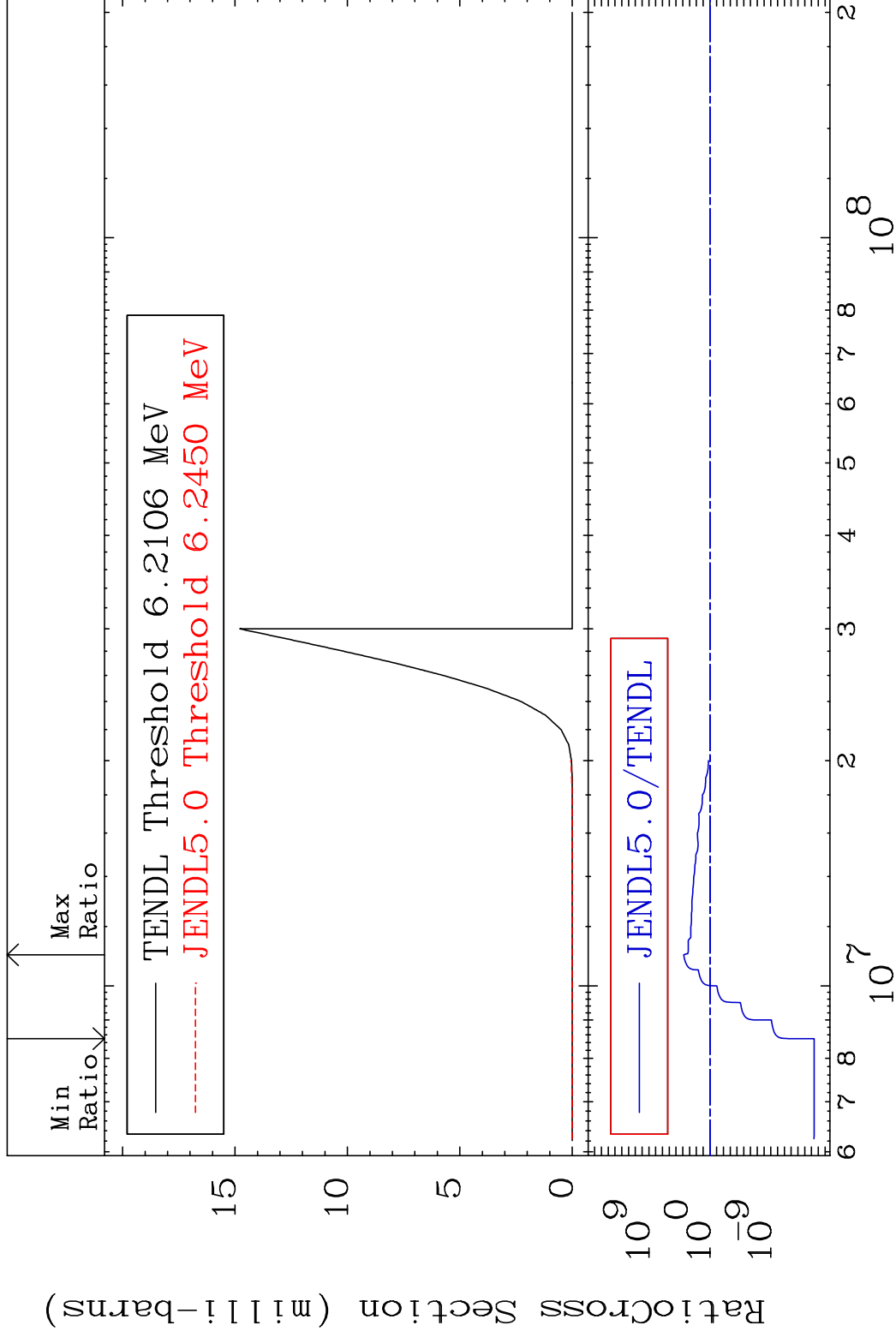
MAT 6334 (n, n') α 63-Eu-154
 Cross Section -100.0 To 9999. %



MAT 6334

(n,2n) α 63-Eu-154

Cross Section -100.0 To 9999. %



7

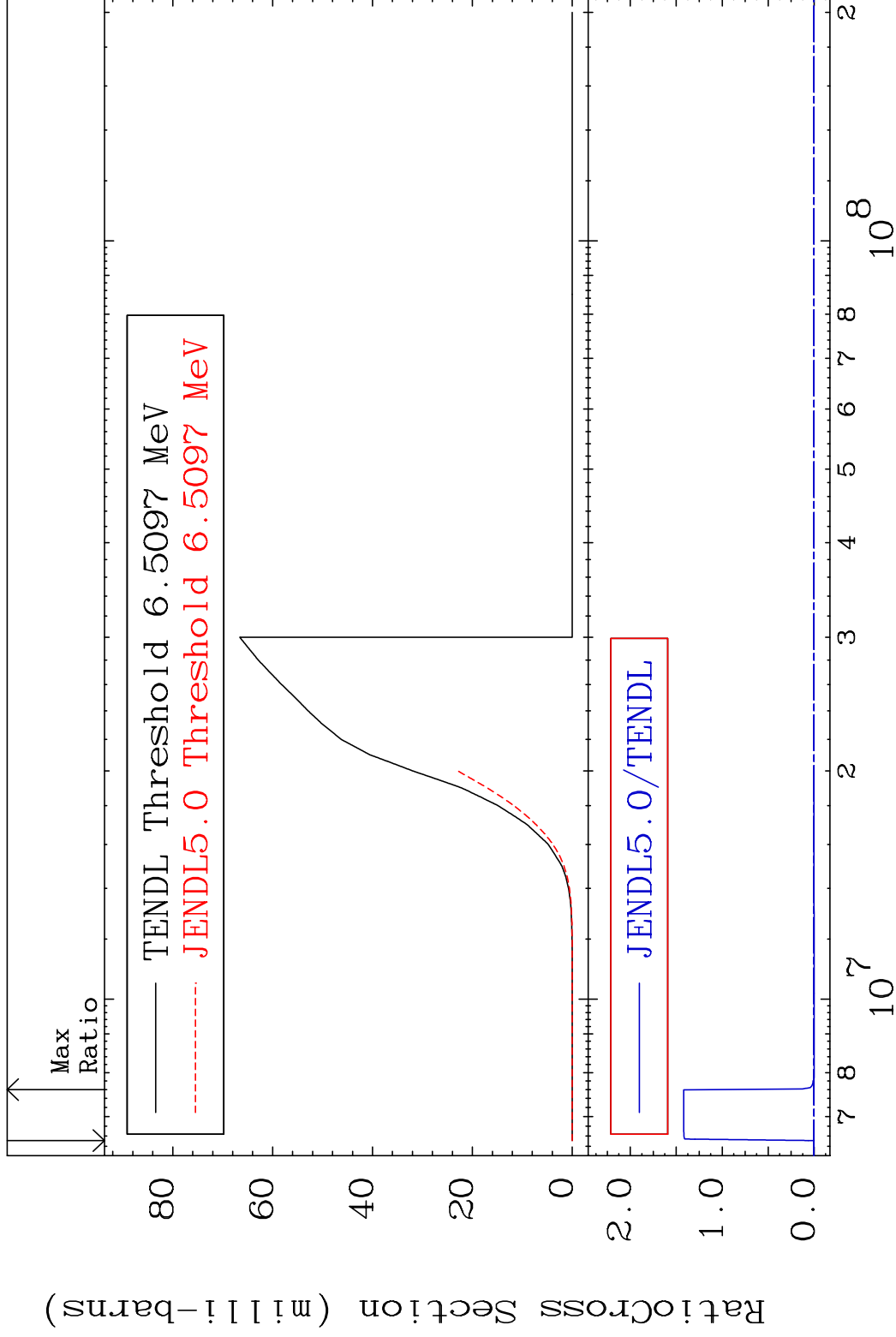
Incident Energy (eV)

63-Eu-154

MAT 6334

(n, n') p 63-Eu-154

Cross Section -100.0 To 9999. %

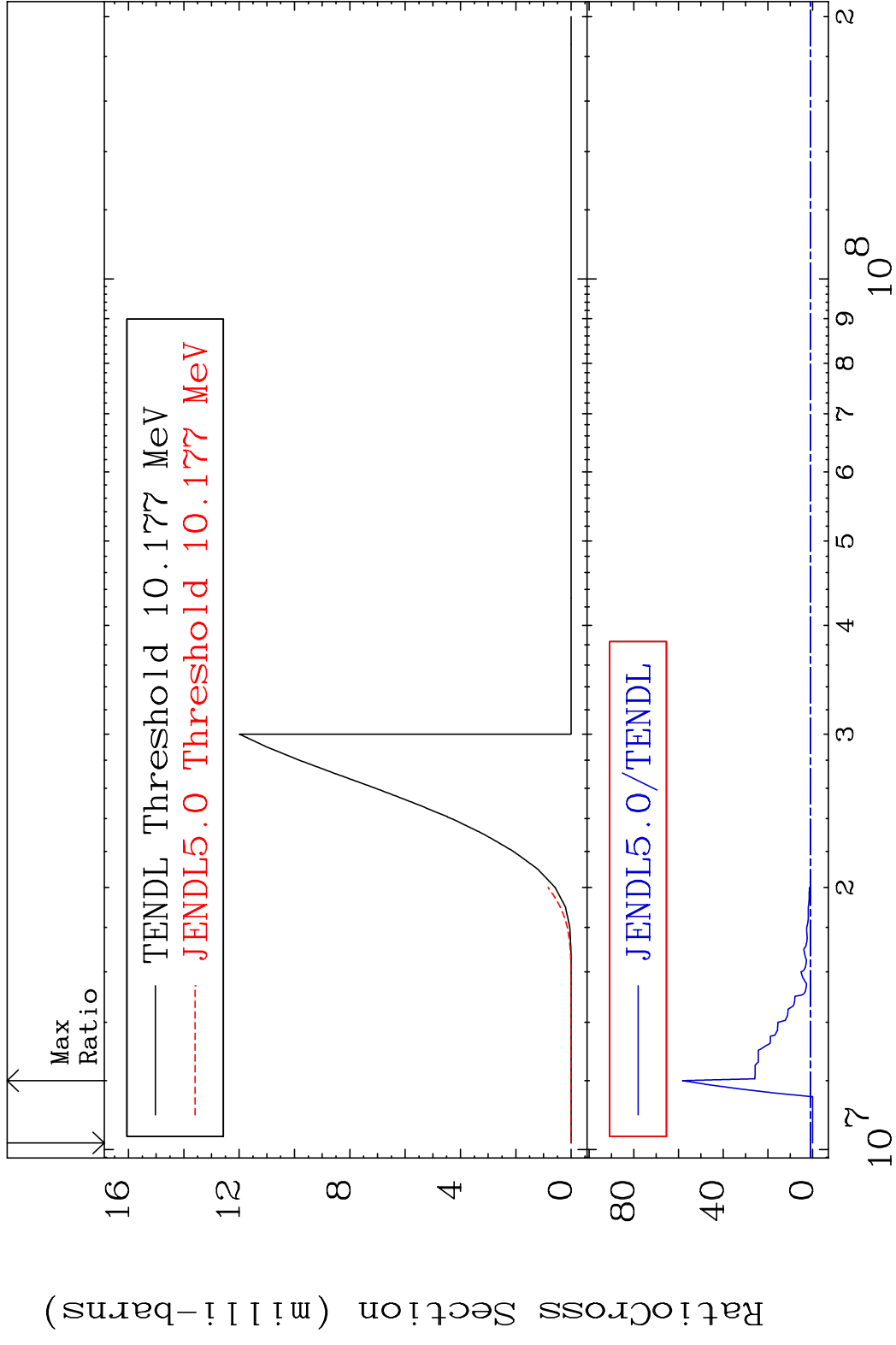


8

Incident Energy (eV)

63-Eu-154

MAT 6334 (n, n') d 63-Eu-154
 Cross Section -100.0 To 5724. %



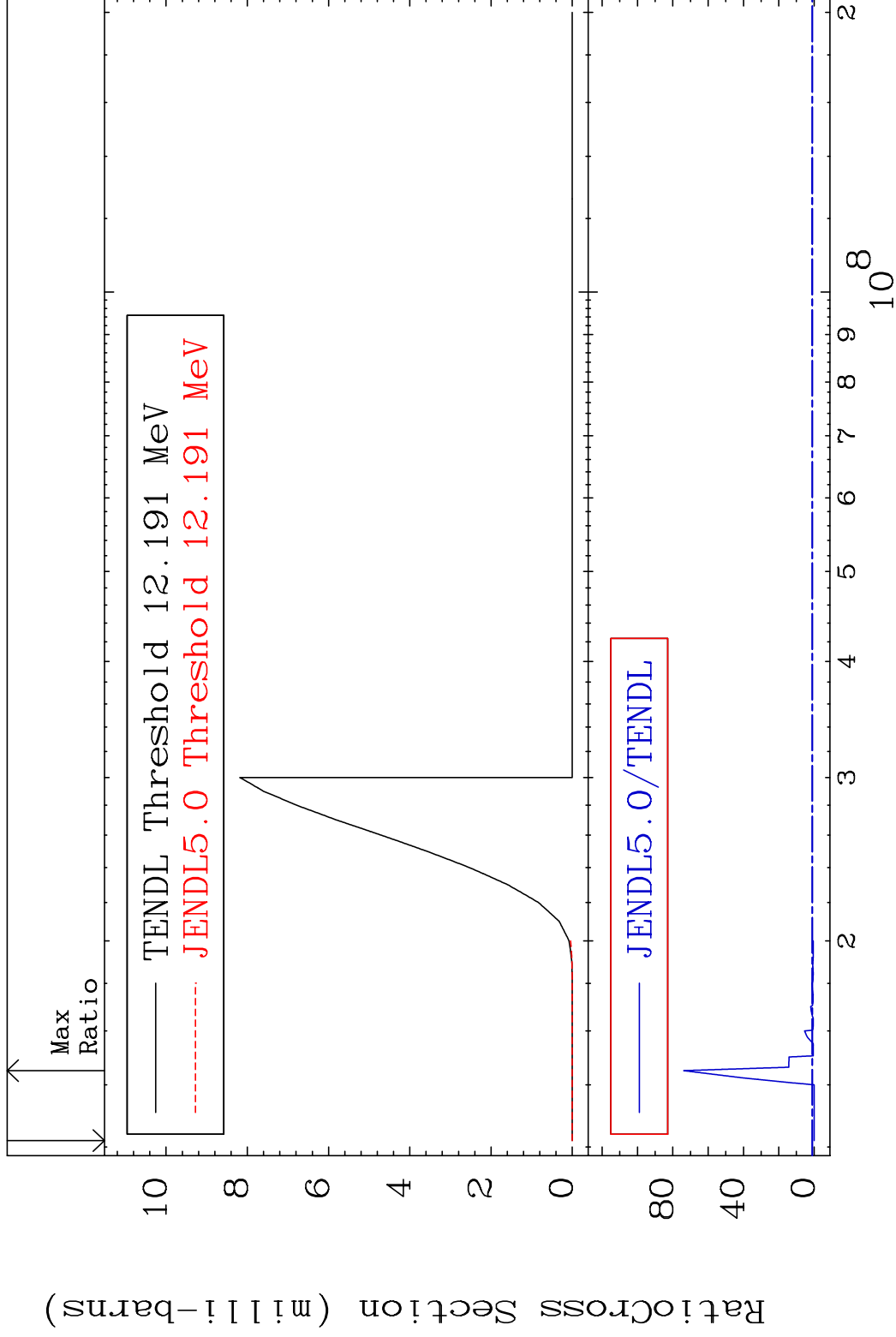
9 9 Incident Energy (eV) 63-Eu-154

MAT 6334

(n, n') t

63-Eu-154

Cross Section -100.0 To 7285. %

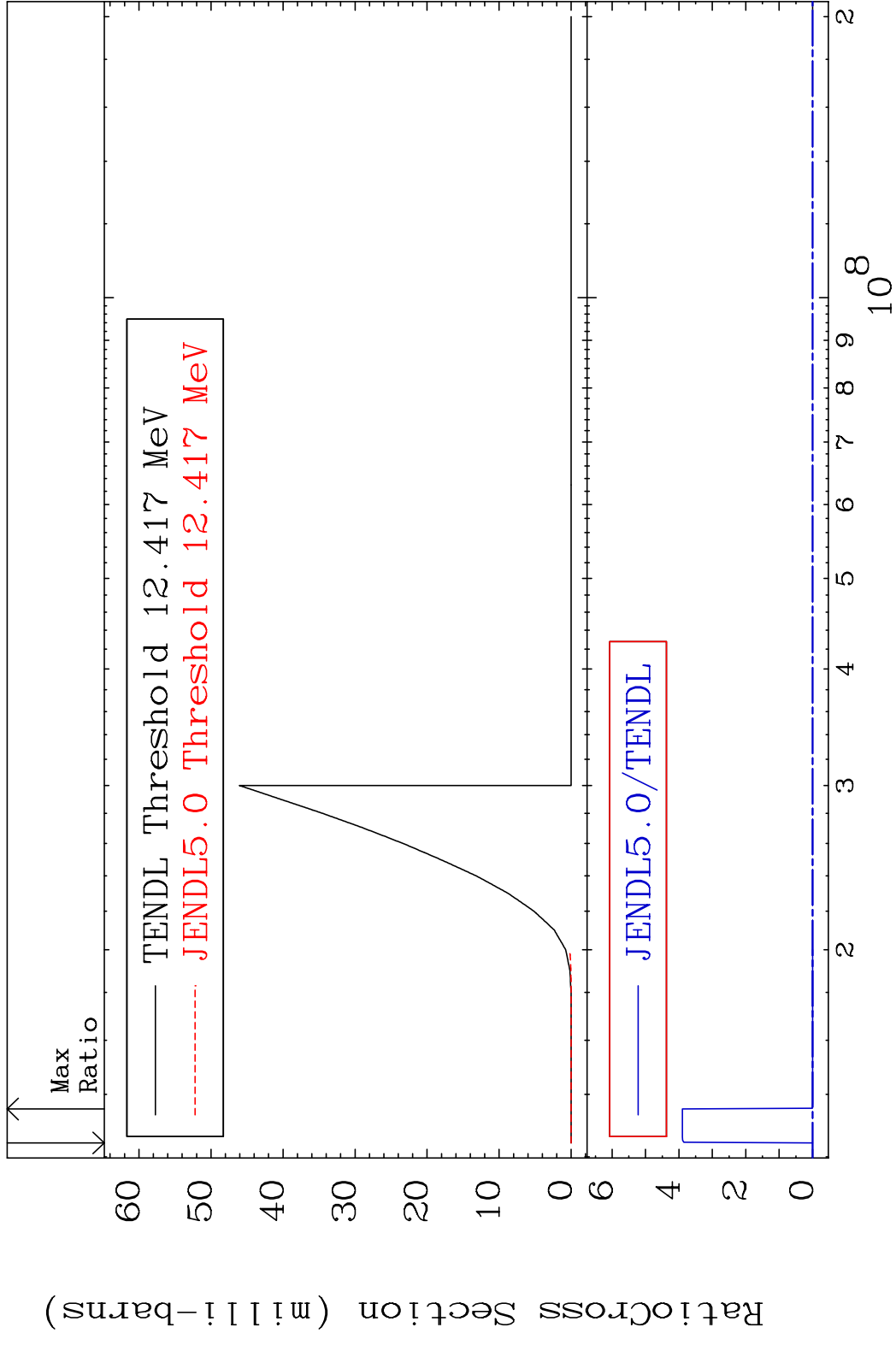


10

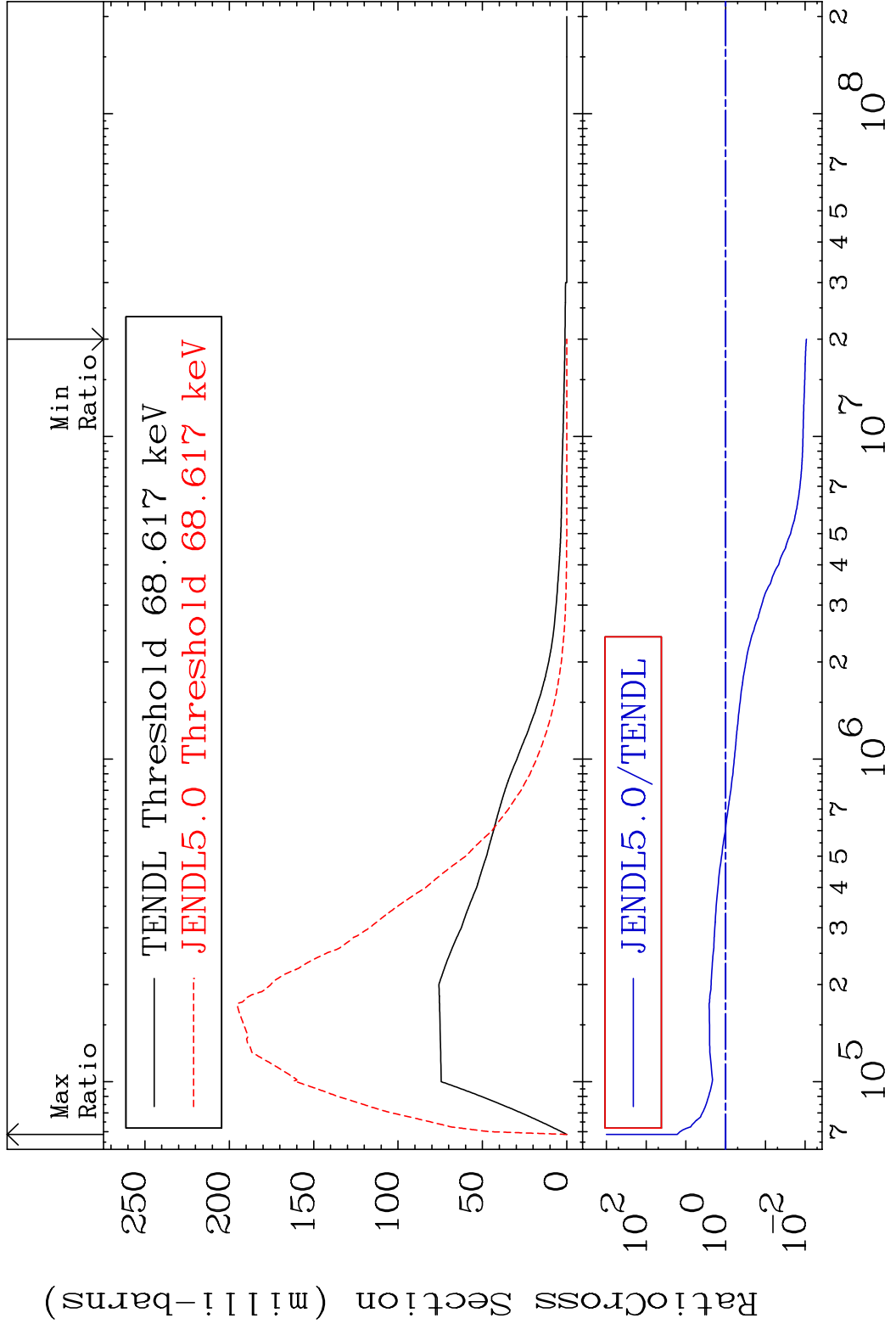
Incident Energy (eV)

63-Eu-154

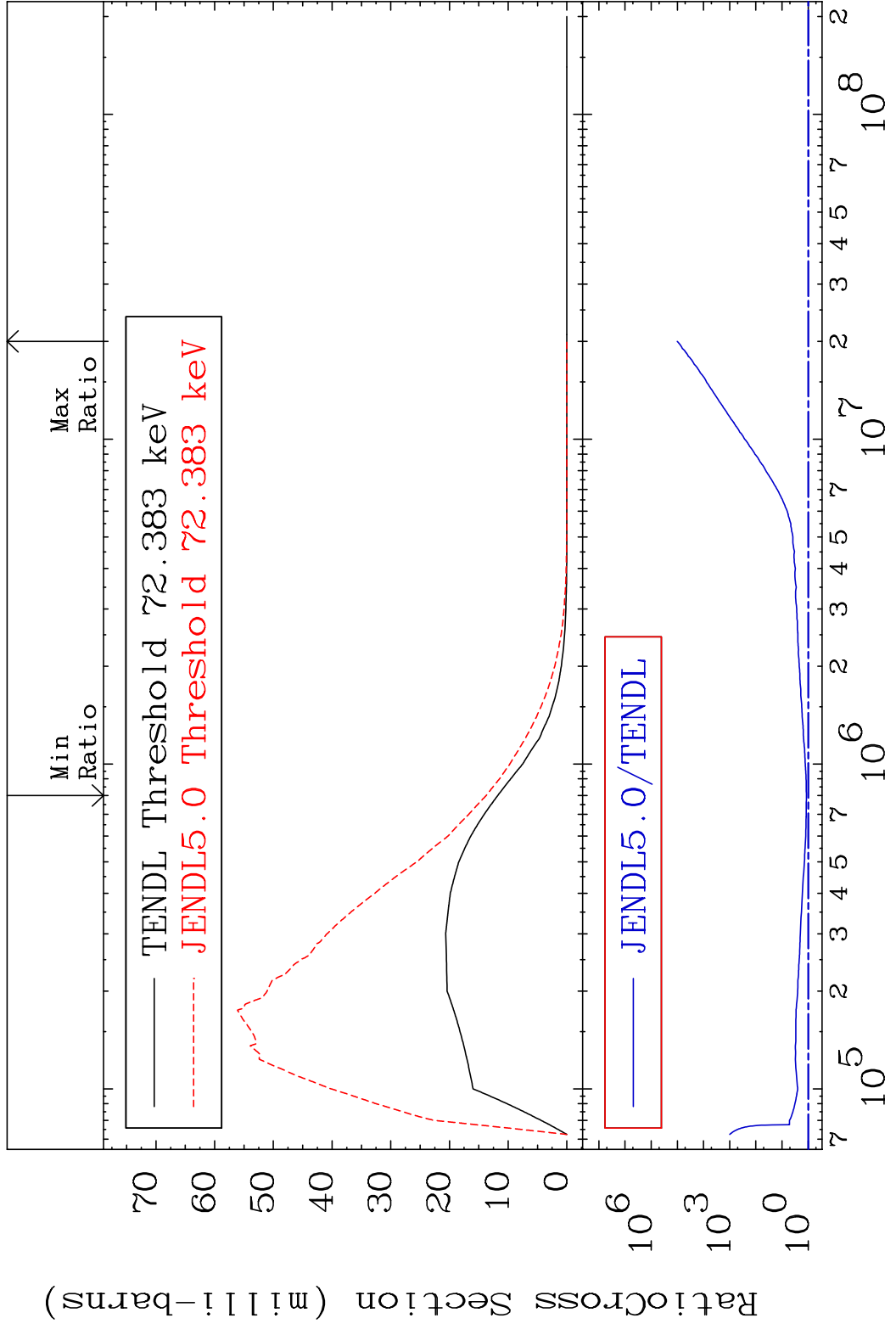
MAT 6334 (n,2n) p 63-Eu-154
 Cross Section -100.0 To 9999. %



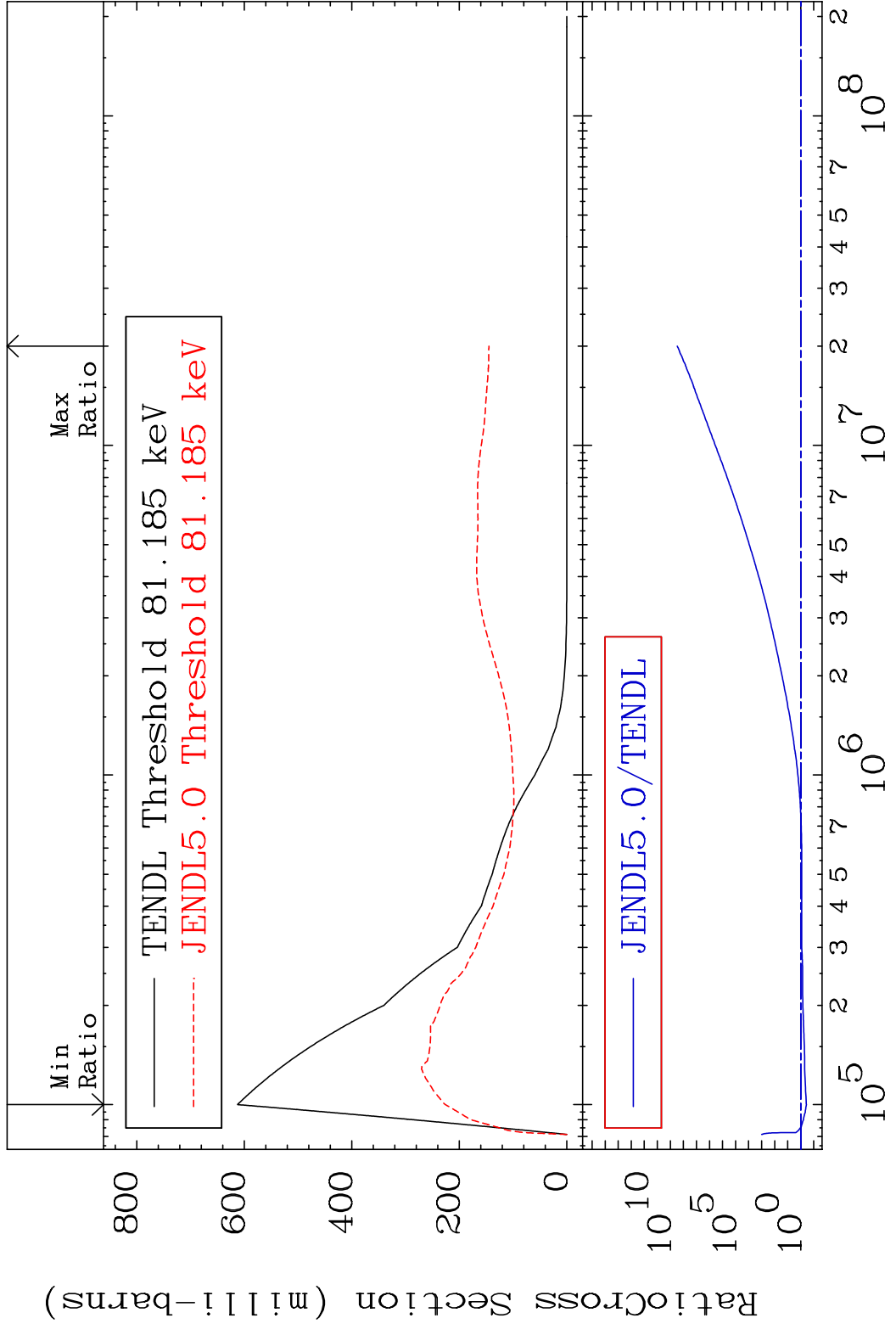
MAT 6334 MT= 51 (n,n') Level 63-Eu-154
 Cross Section -99.07 To 1555. %



MAT 6334 MT= 52 (n,n') Level 63-Eu-154
 Cross Section 16.72 To 9999. %

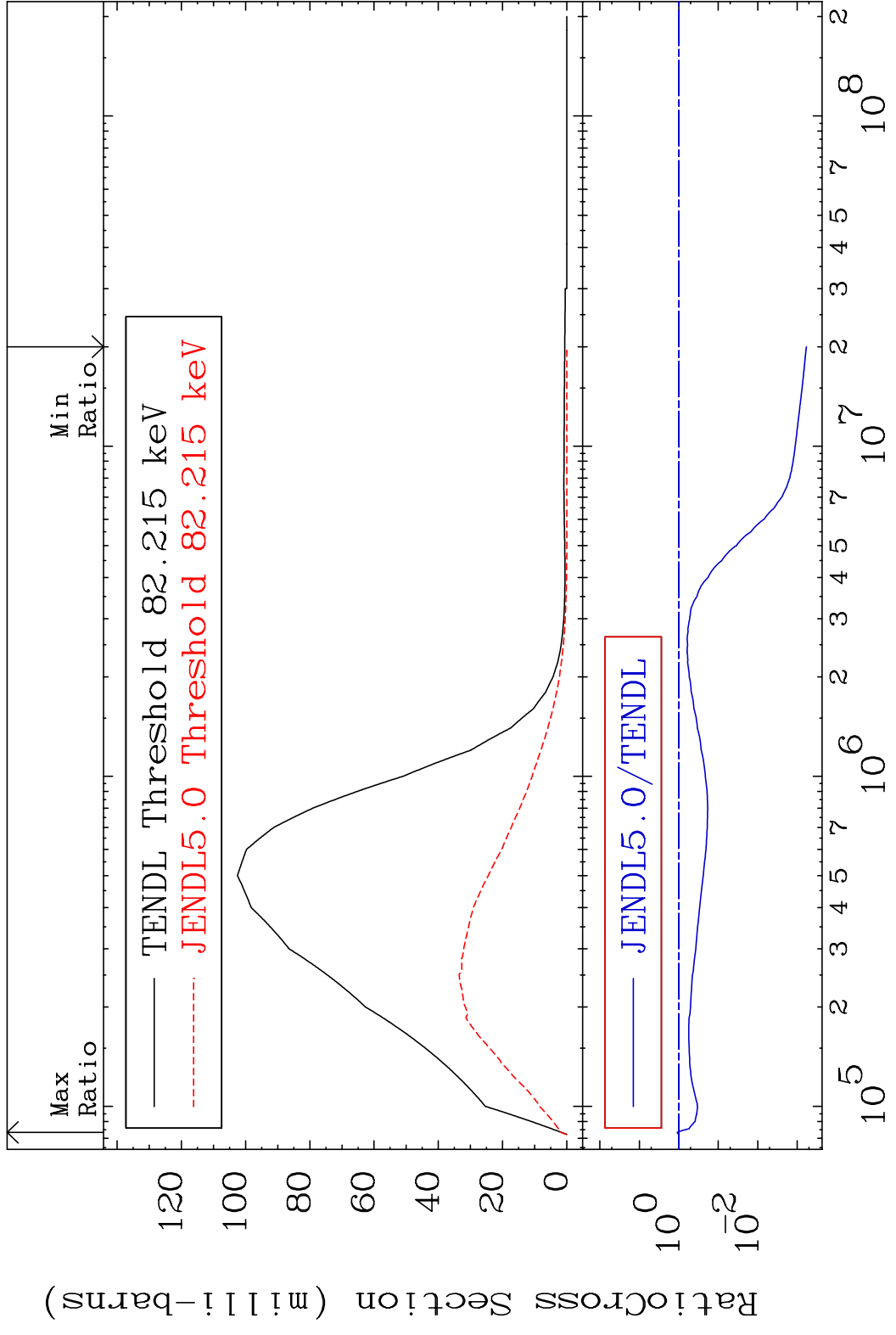


MAT 6334 MT= 53 (n,n') Level 63-Eu-154
 Cross Section -63.10 To 9999. %

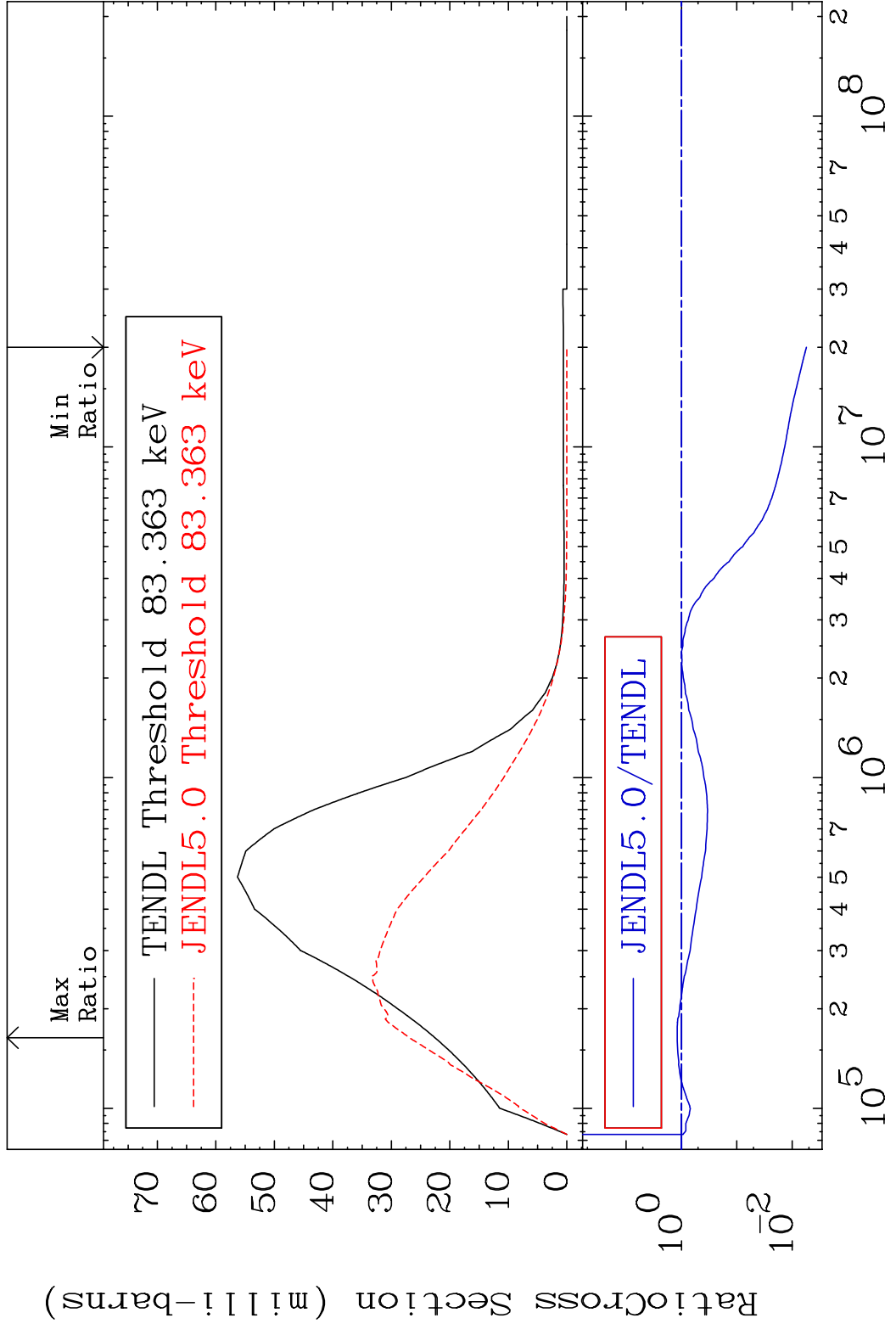


14 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 54 (n,n') Level 63-Eu-154
 Cross Section -99.94 To 9.788 %

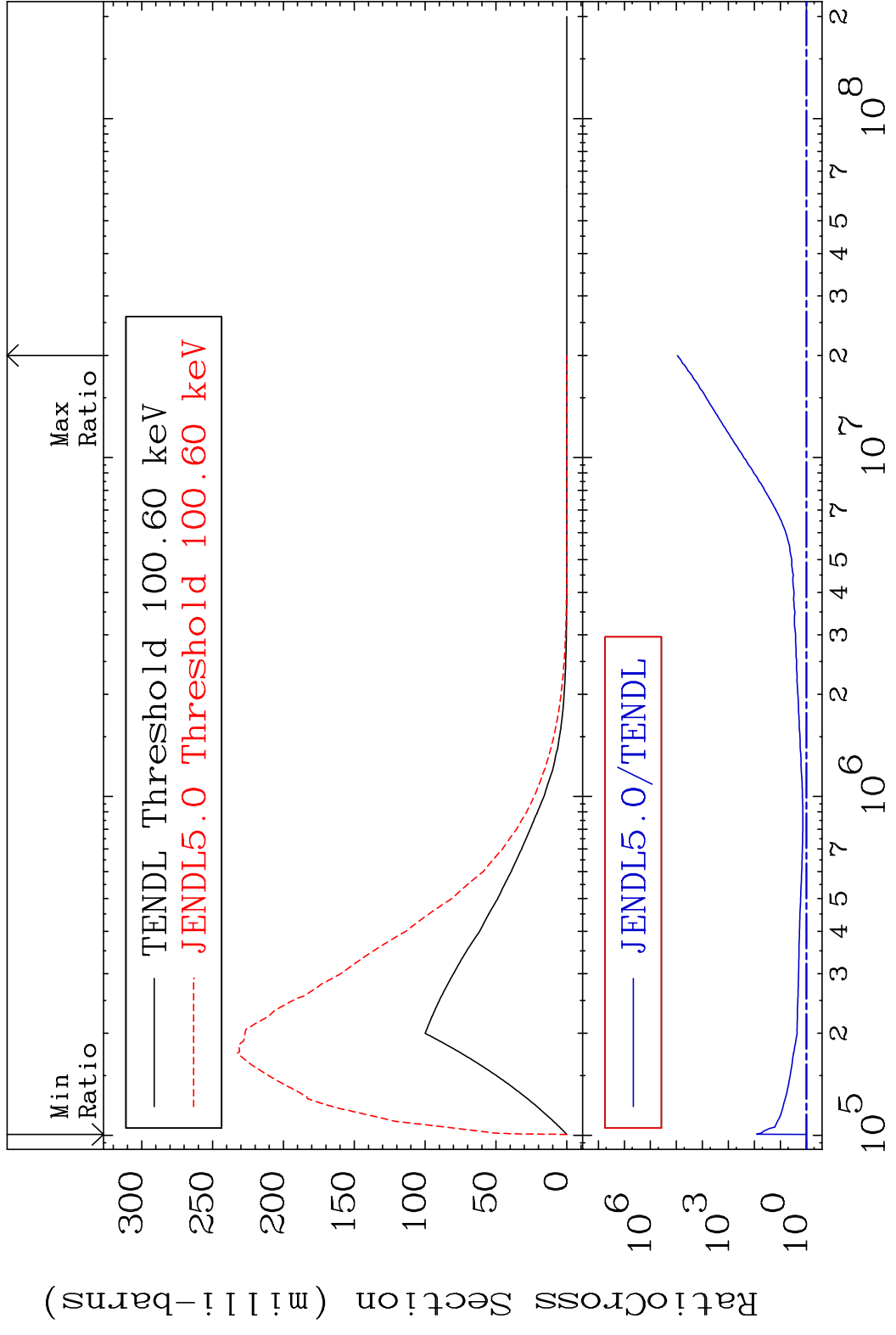


MAT 6334 MT= 55 (n,n') Level 63-Eu-154
 Cross Section -99.45 To 19.57 %

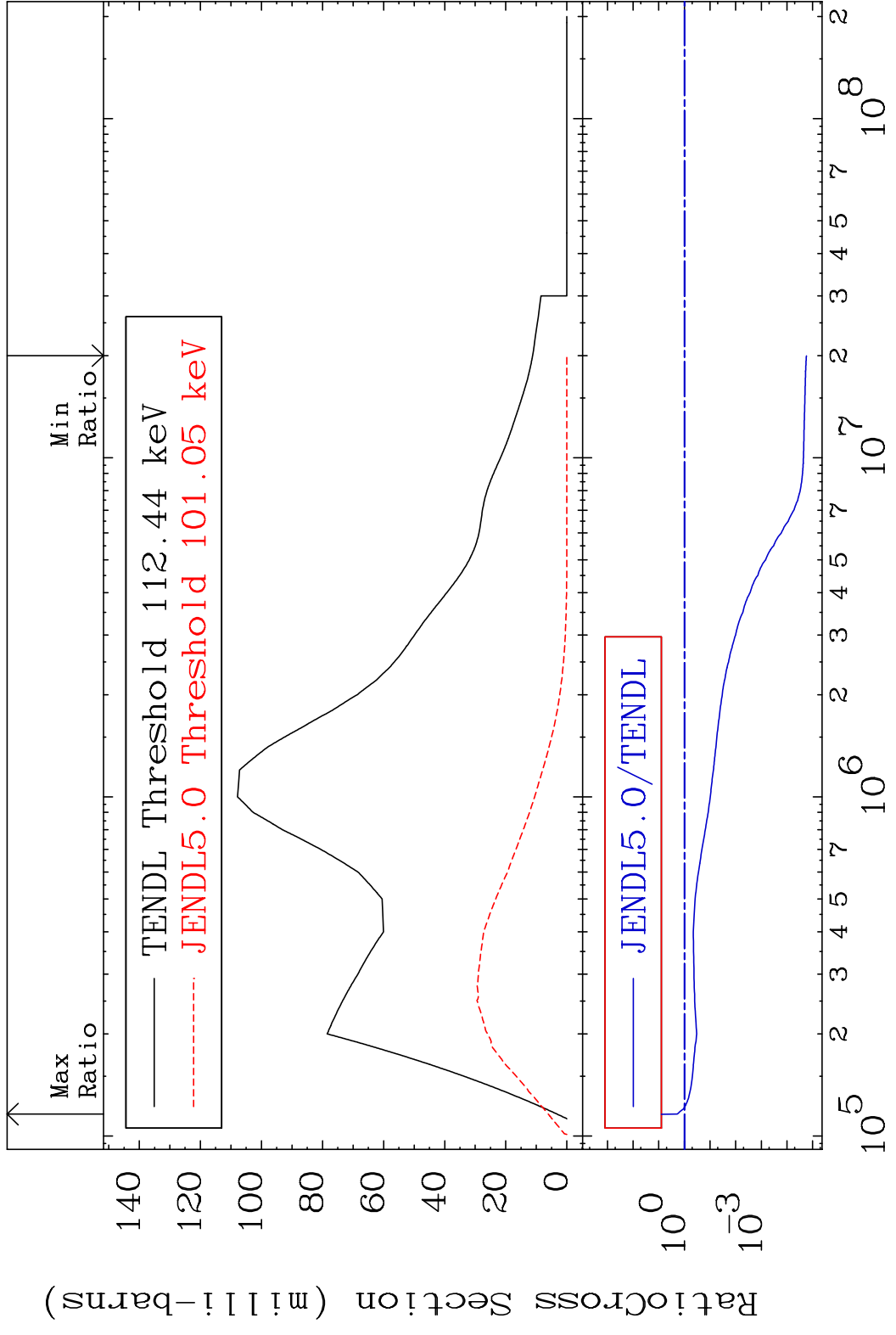


16 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 56 (n,n') Level 63-Eu-154
 Cross Section 0.000 To 9999. %

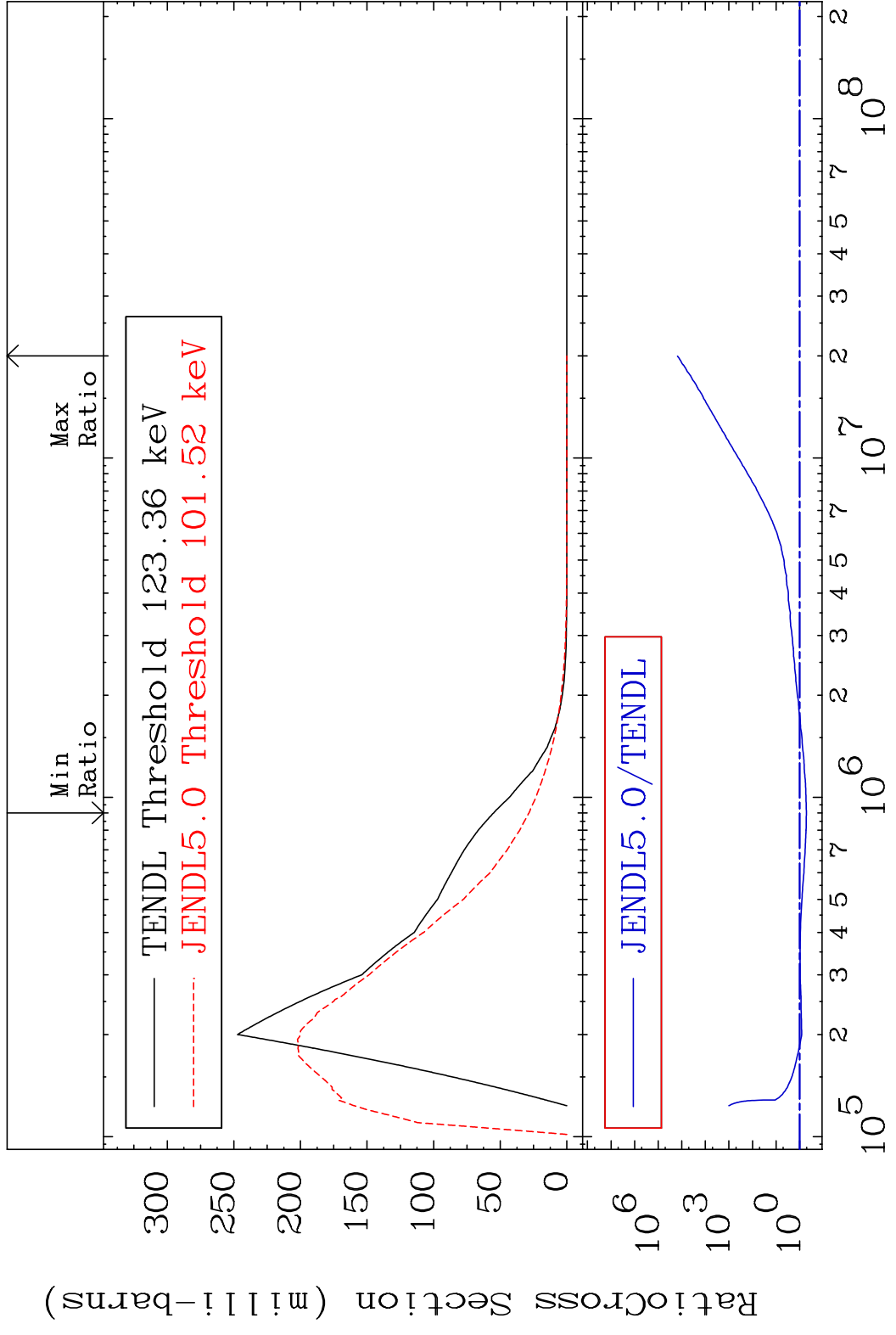


MAT 6334 MT= 57 (n, n') Level 63-Eu-154
 Cross Section -100.0 To 91.41 %



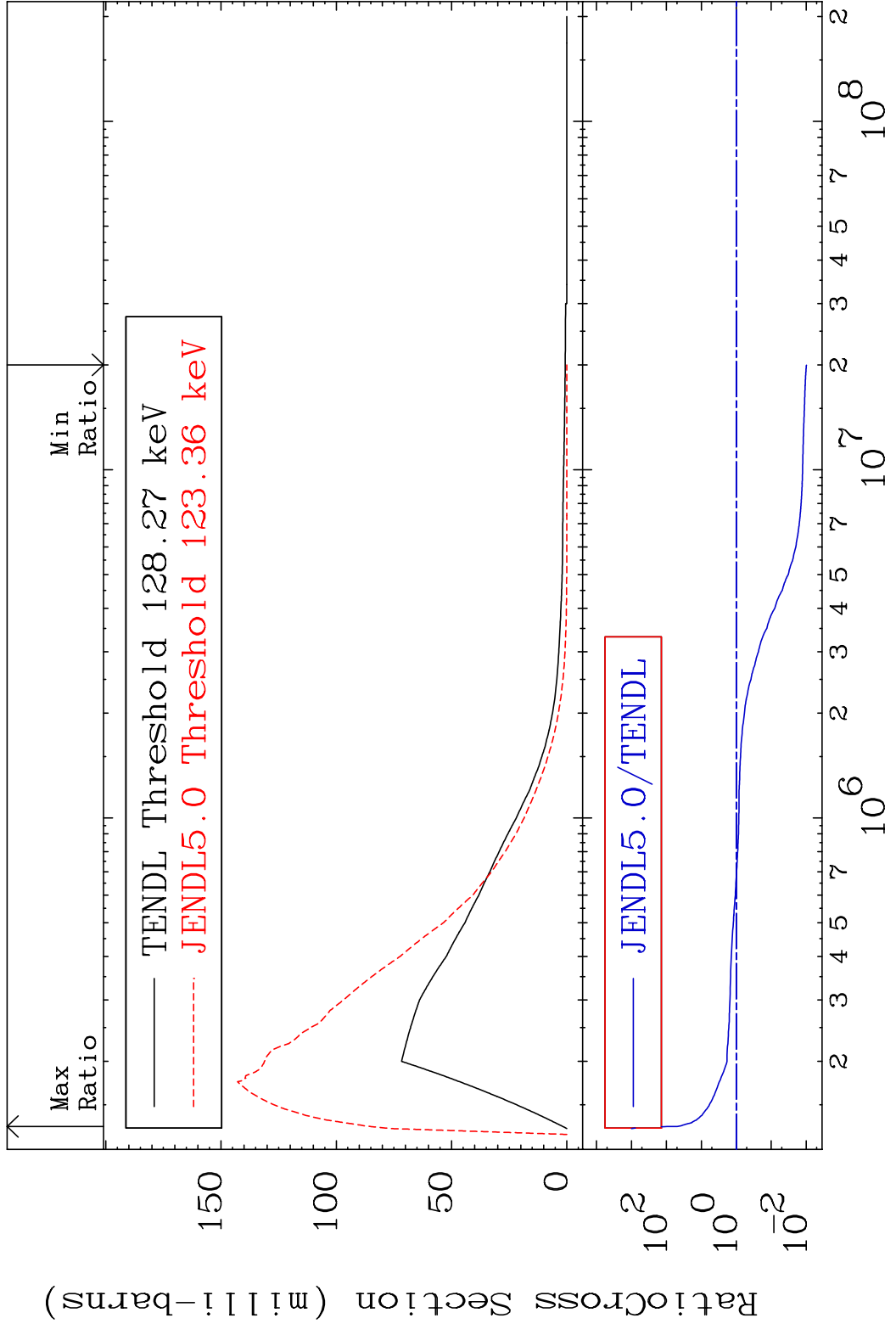
18 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 58 (n, n') Level 63-Eu-154
 Cross Section -48.29 To 9999. %

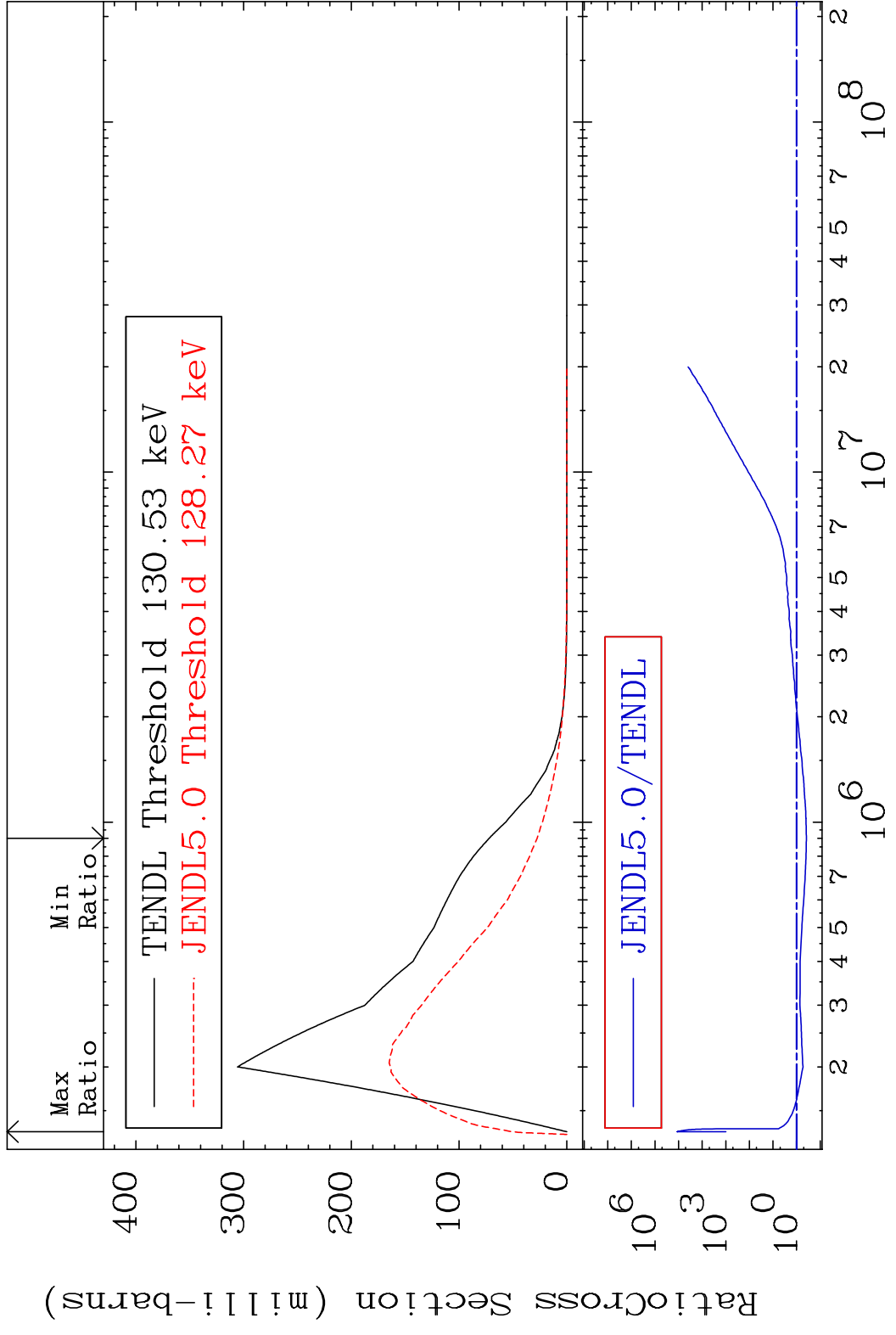


19 Incident Energy (eV) 63-Eu-154

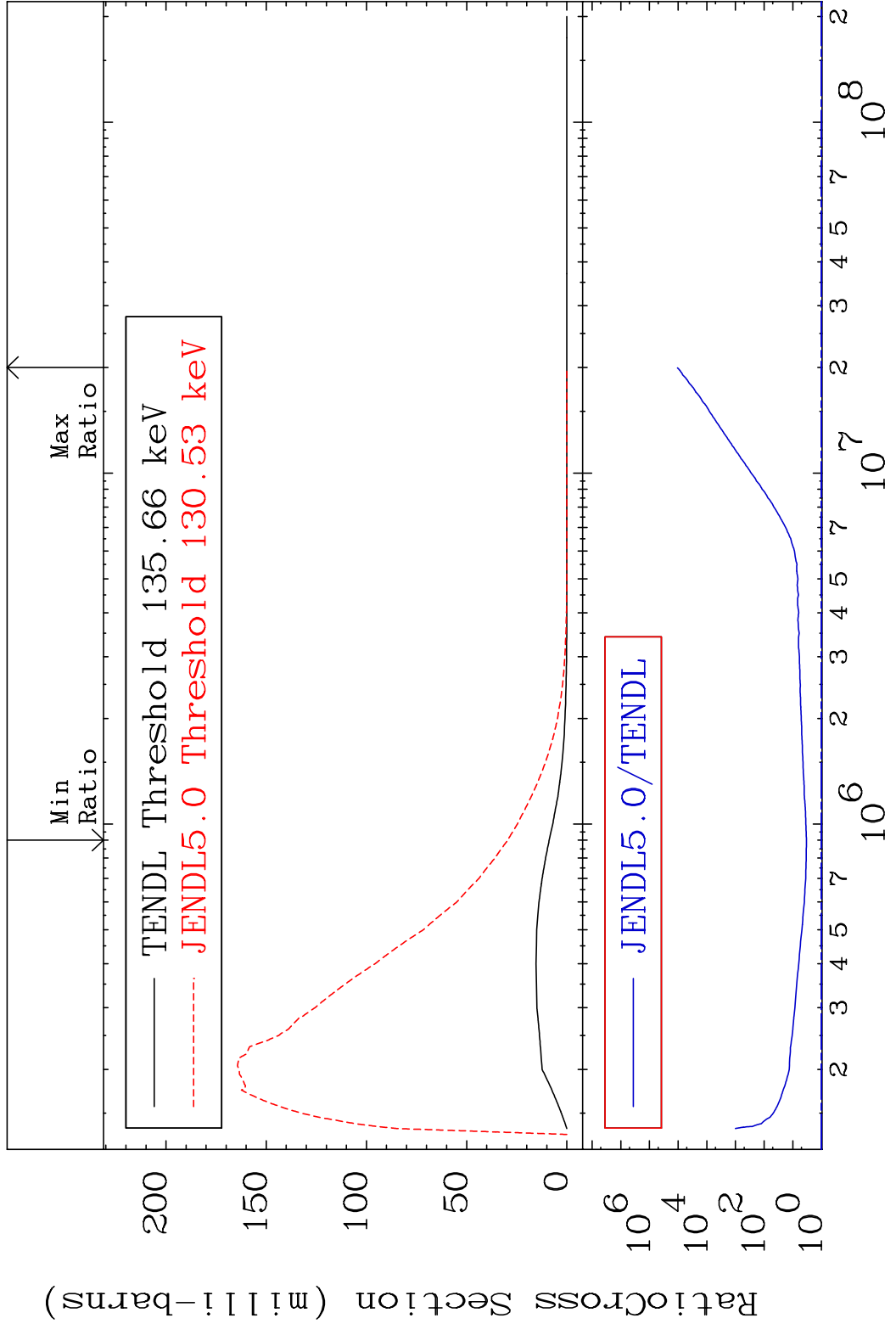
MAT 6334 MT= 59 (n,n') Level 63-Eu-154
 Cross Section -99.02 To 4810. %



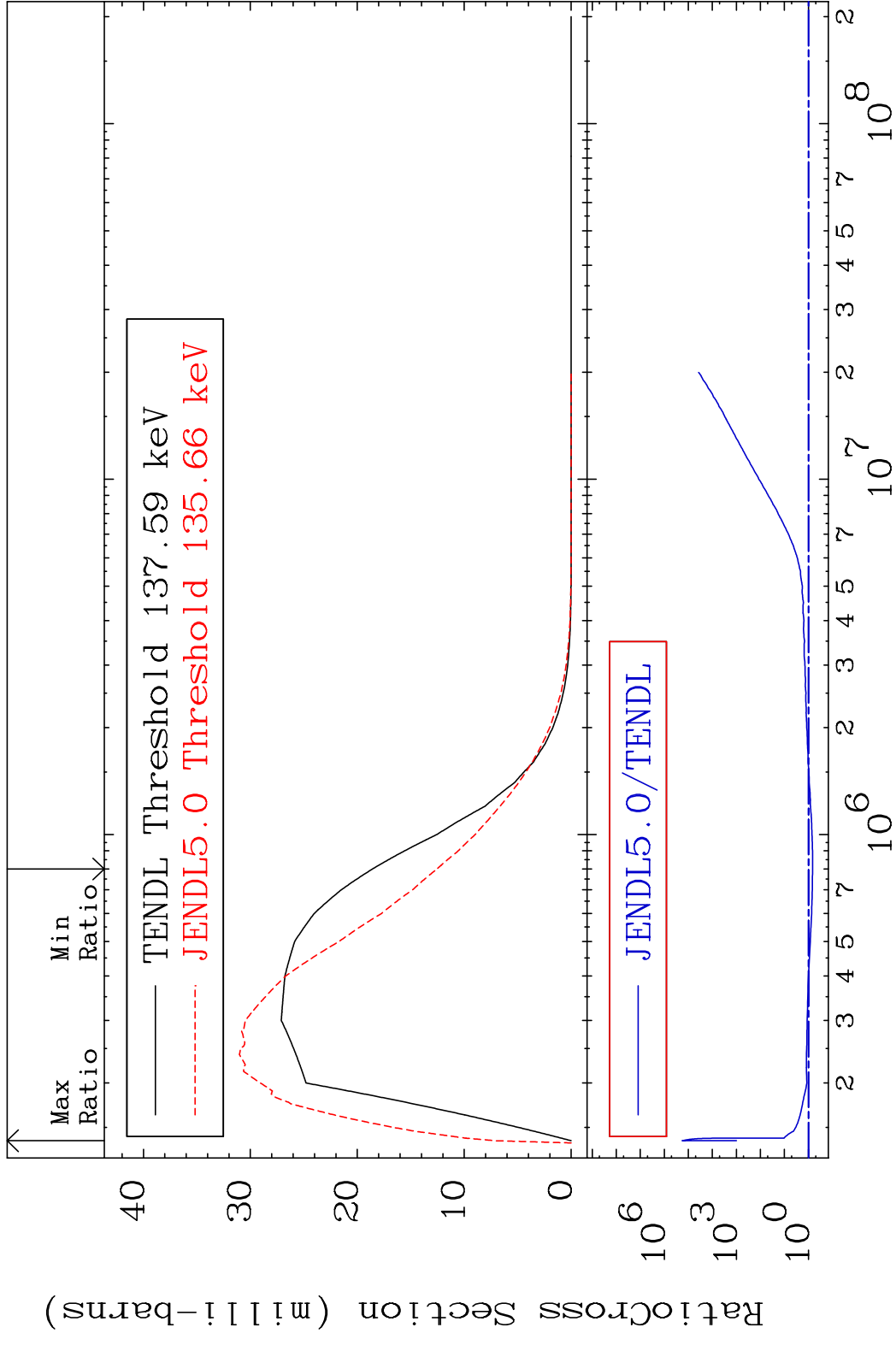
MAT 6334 MT= 60 (n,n') Level 63-Eu-154
 Cross Section -61.58 To 9999. %



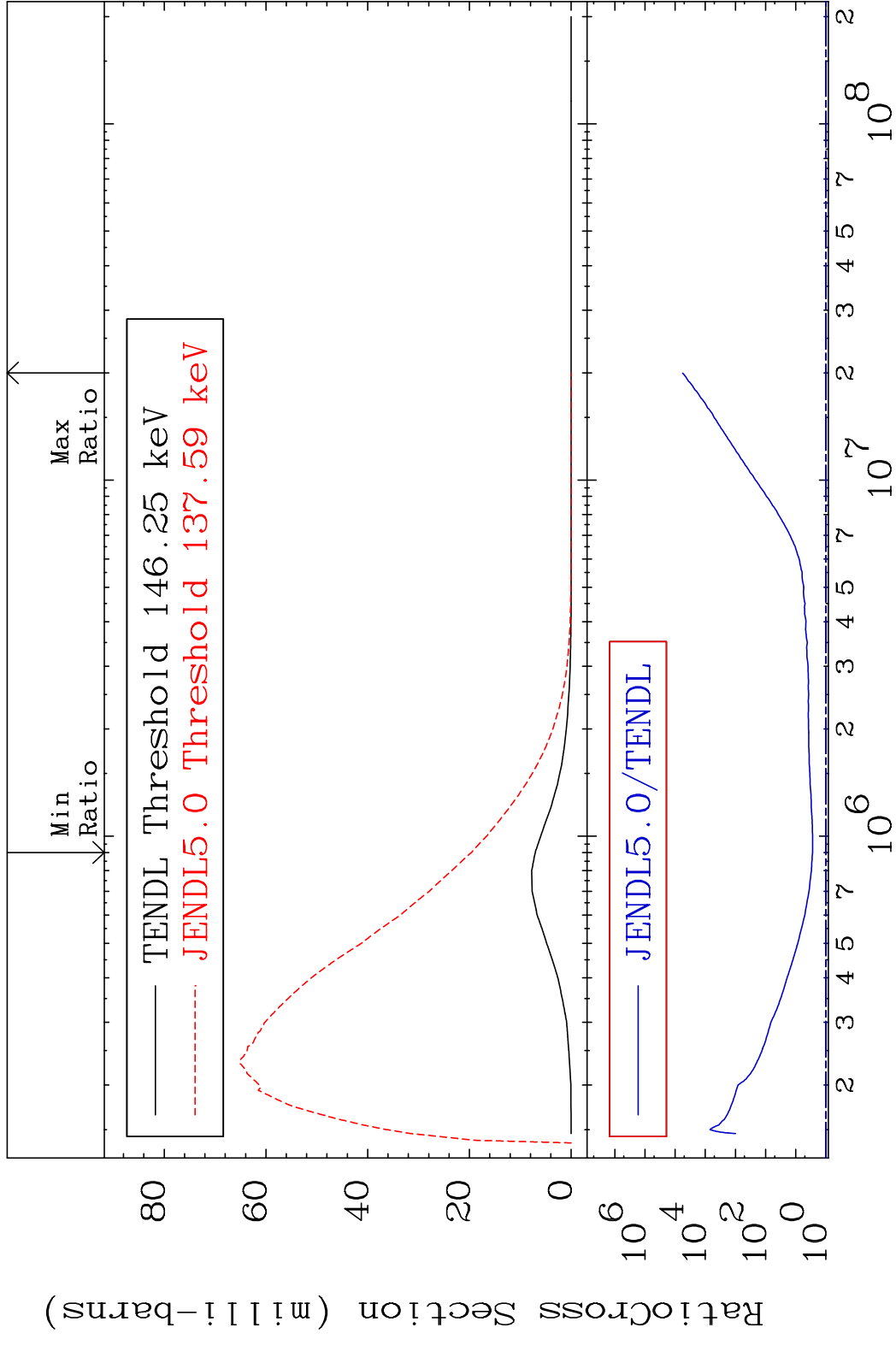
MAT 6334 MT= 61 (n, n') Level 63-Eu-154
 Cross Section 235.4 To 9999. %



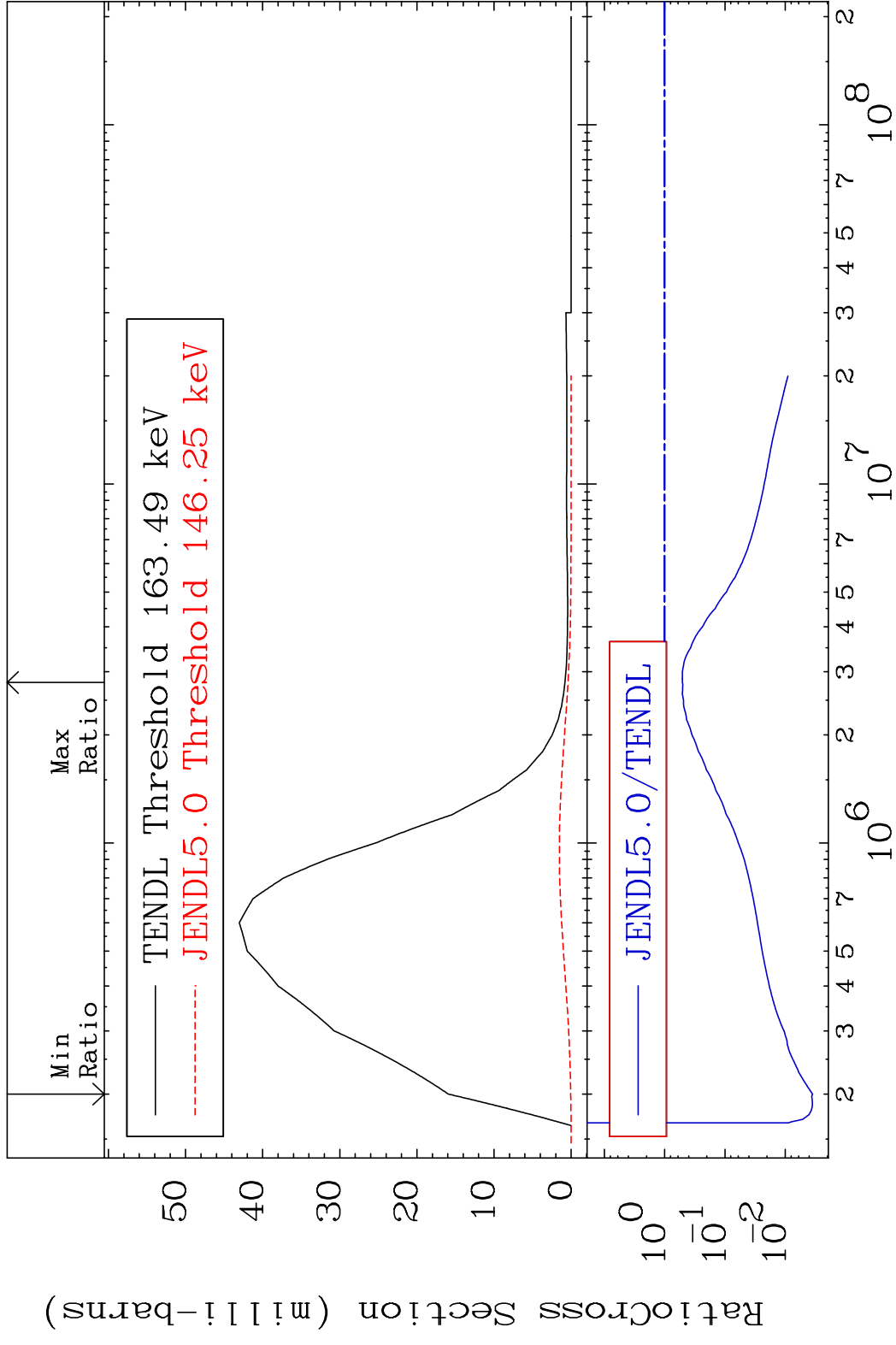
MAT 6334 MT= 62 (n,n') Level 63-Eu-154
 Cross Section -32.46 To 9999. %



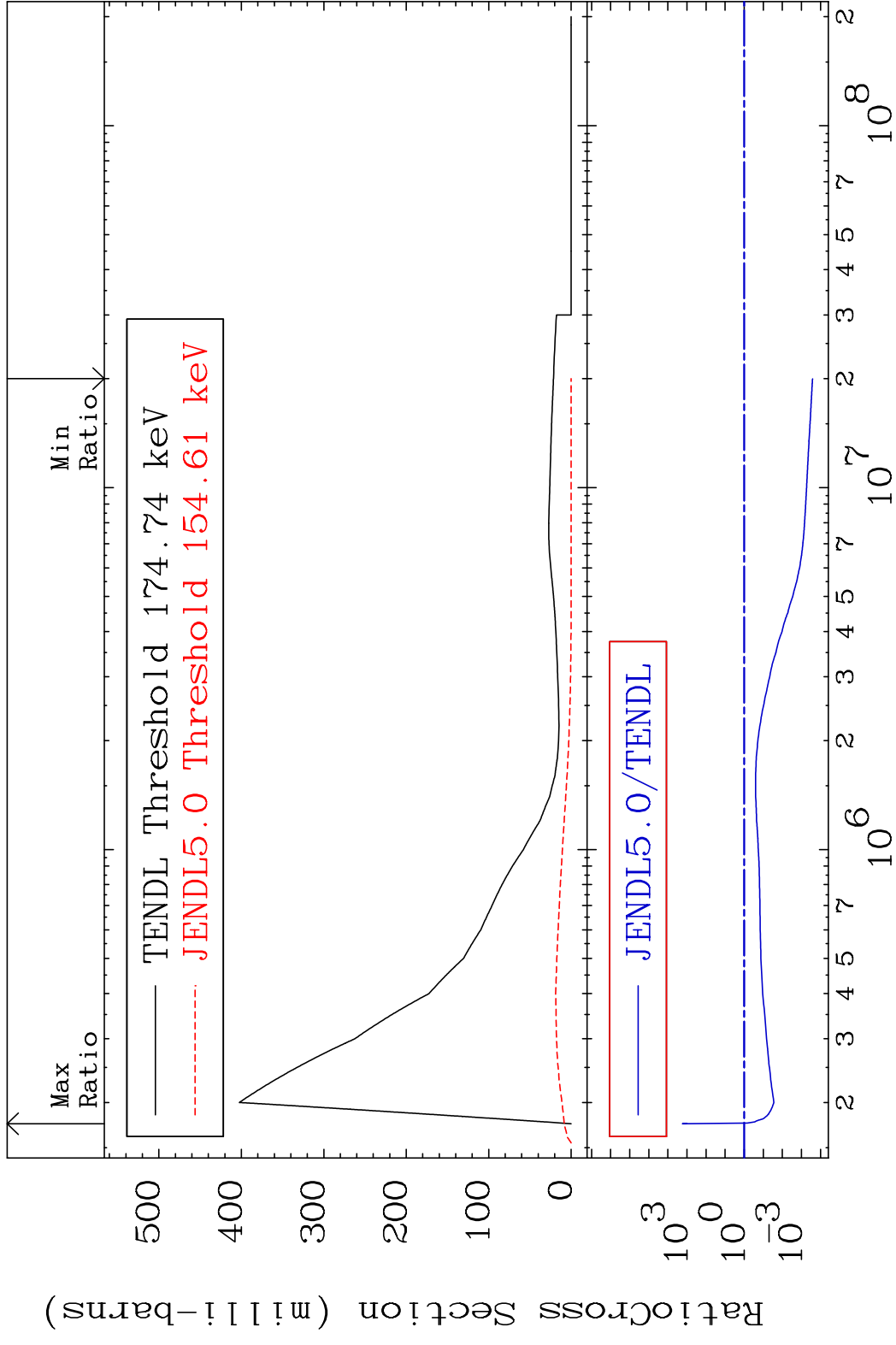
MAT 6334 MT= 63 (n, n') Level 63-Eu-154
 Cross Section 177.4 To 9999. %



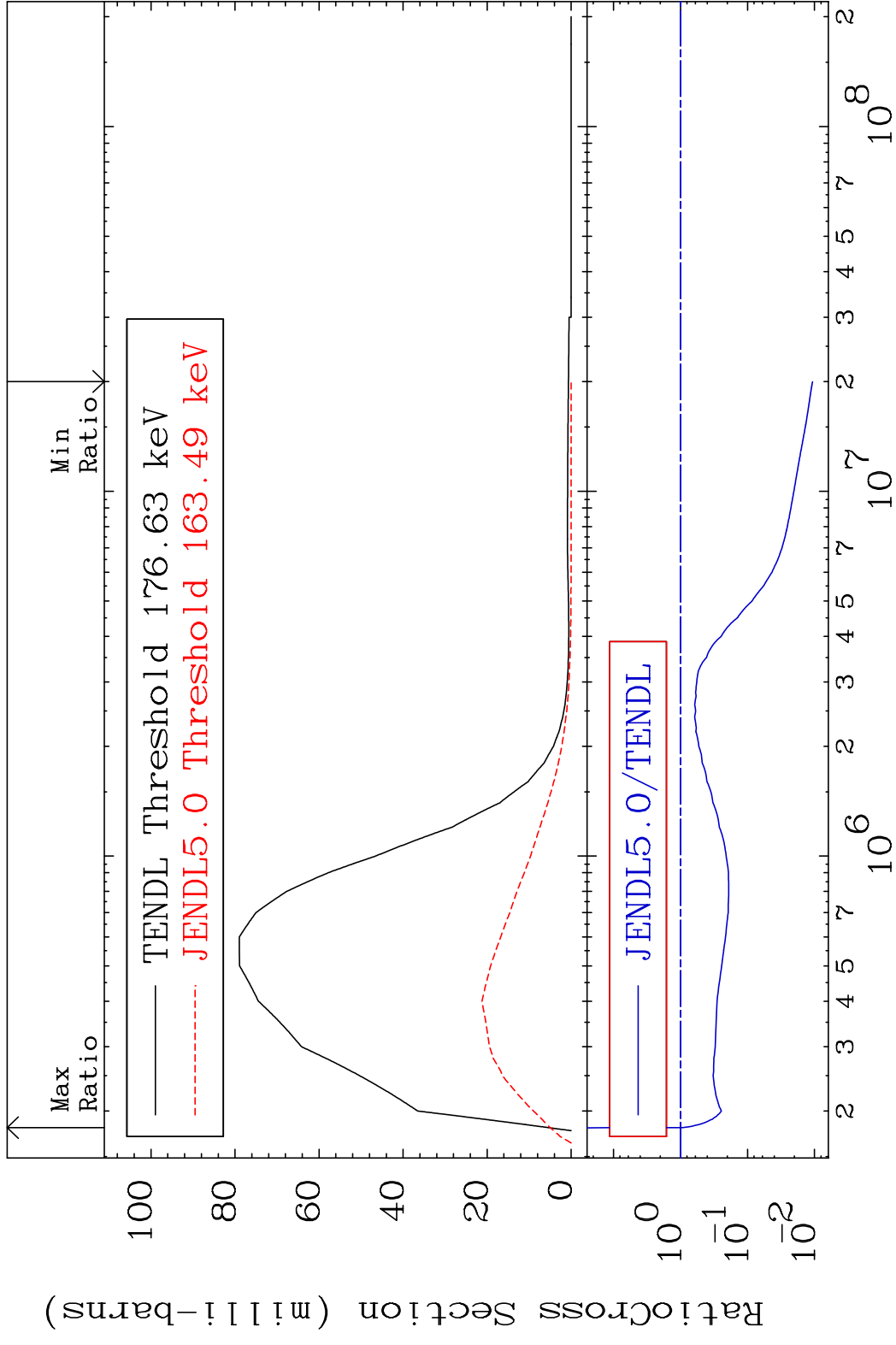
MAT 6334 MT= 64 (n, n') Level 63-Eu-154
 Cross Section -99.65 To -49.05%



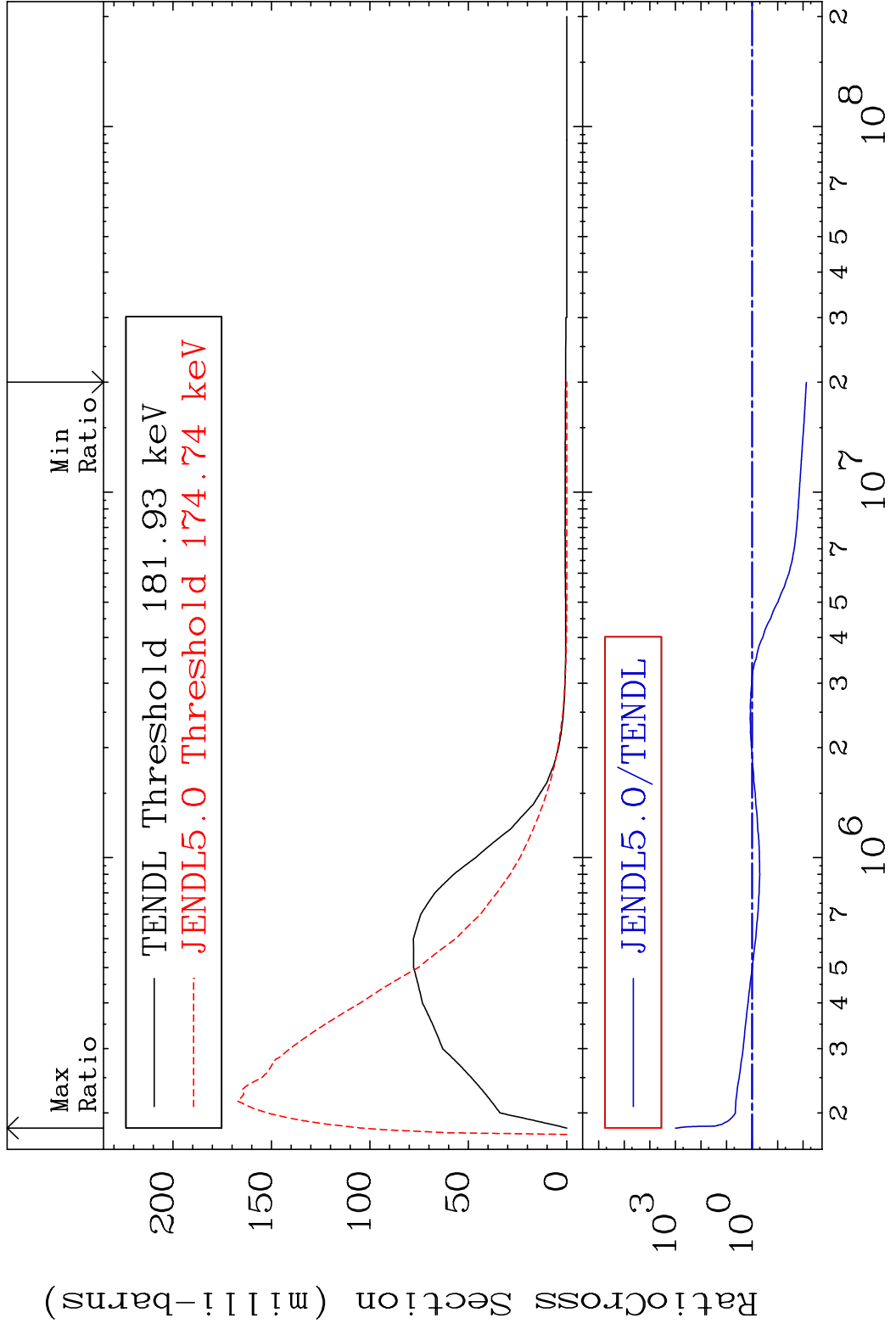
MAT 6334 MT= 65 (n,n') Level 63-Eu-154
 Cross Section -99.97 To 9999. %



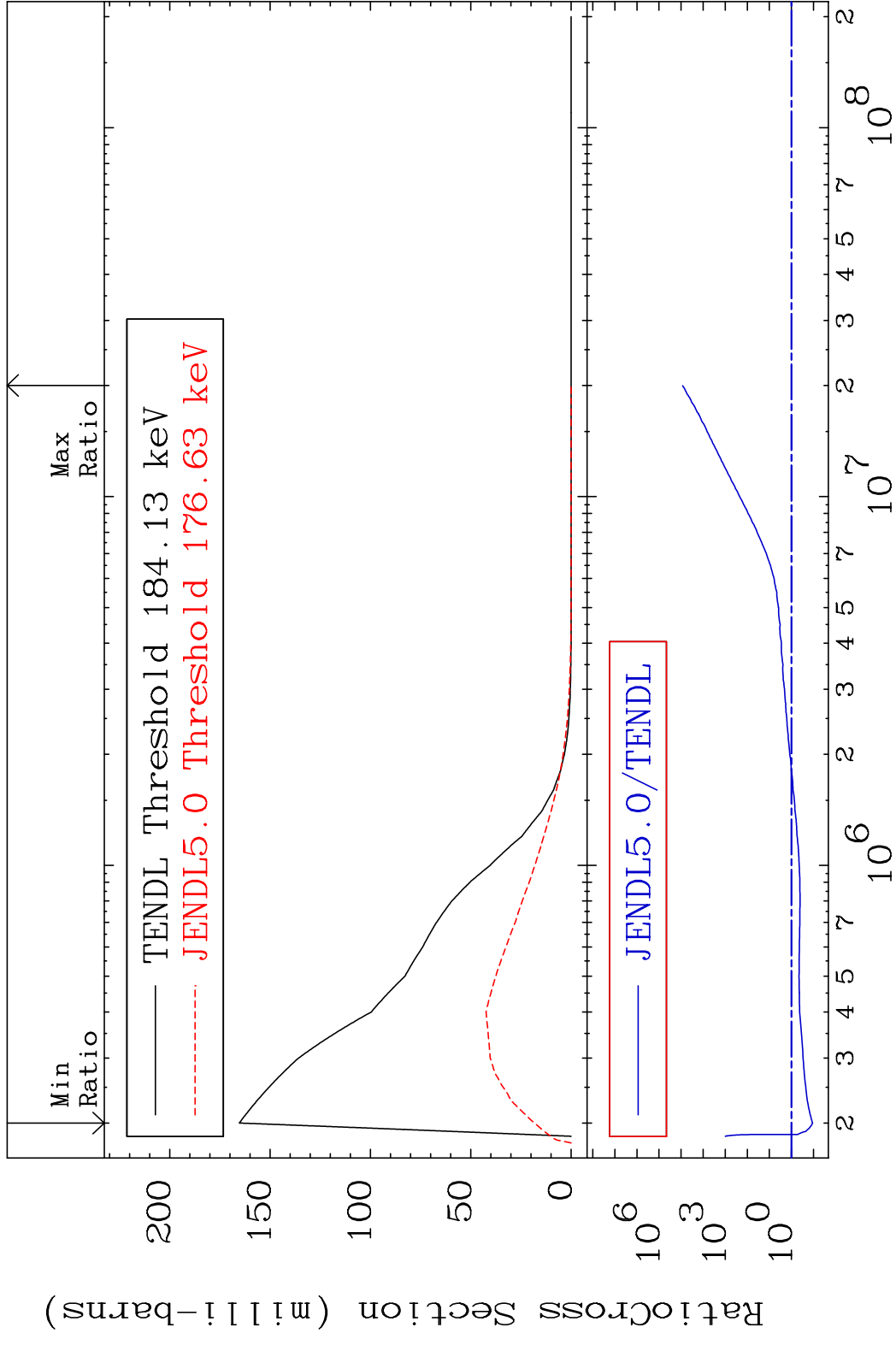
MAT 6334 MT= 66 (n,n') Level 63-Eu-154
 Cross Section -98.93 To -6.215%



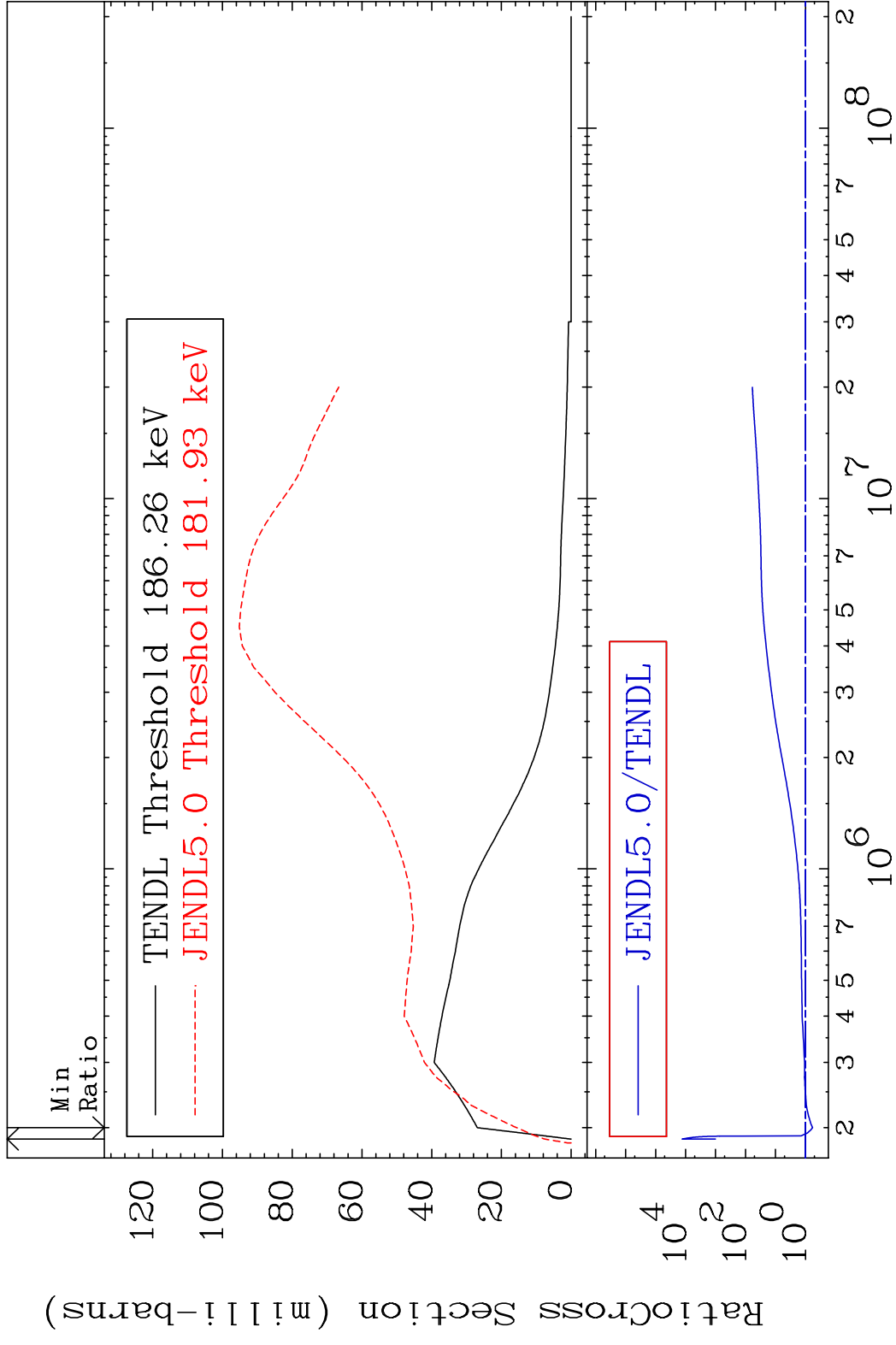
MAT 6334 MT= 67 (n, n') Level 63-Eu-154
 Cross Section -99.25 To 9999. %



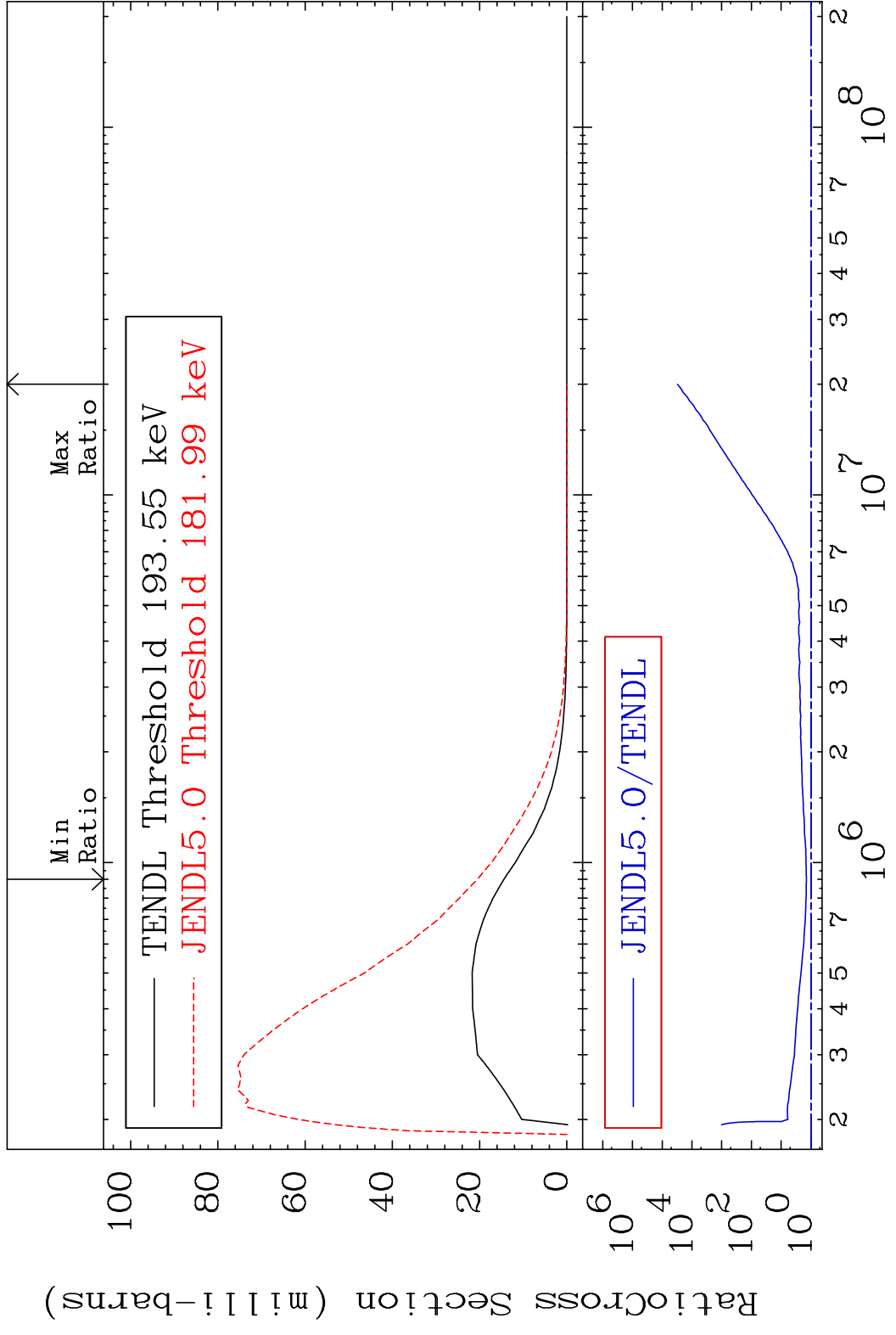
MAT 6334 MT= 68 (n,n') Level 63-Eu-154
 Cross Section -88.95 To 9999. %



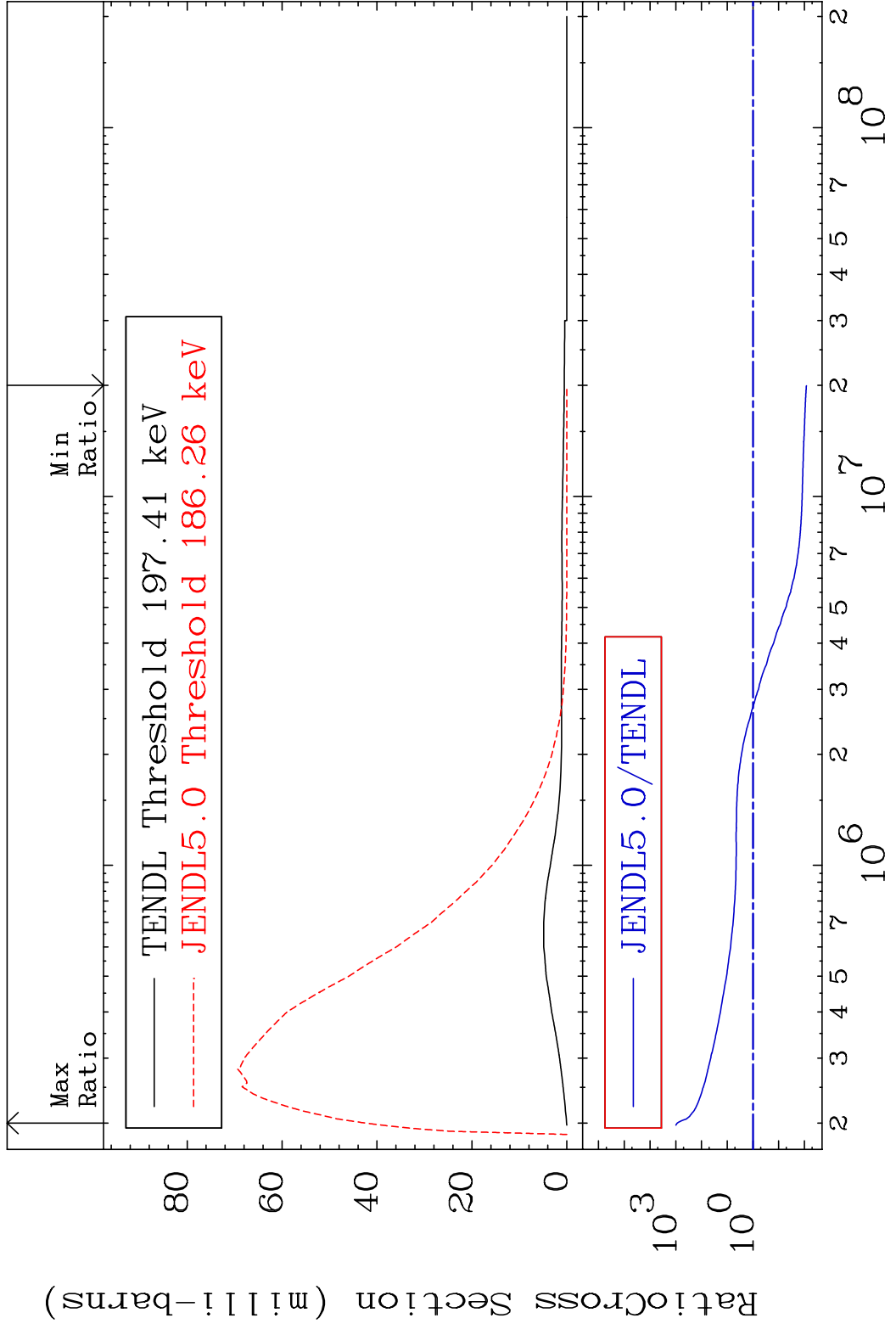
MAT 6334 MT= 69 (n,n') Level 63-Eu-154
 Cross Section -41.92 To 9999. %



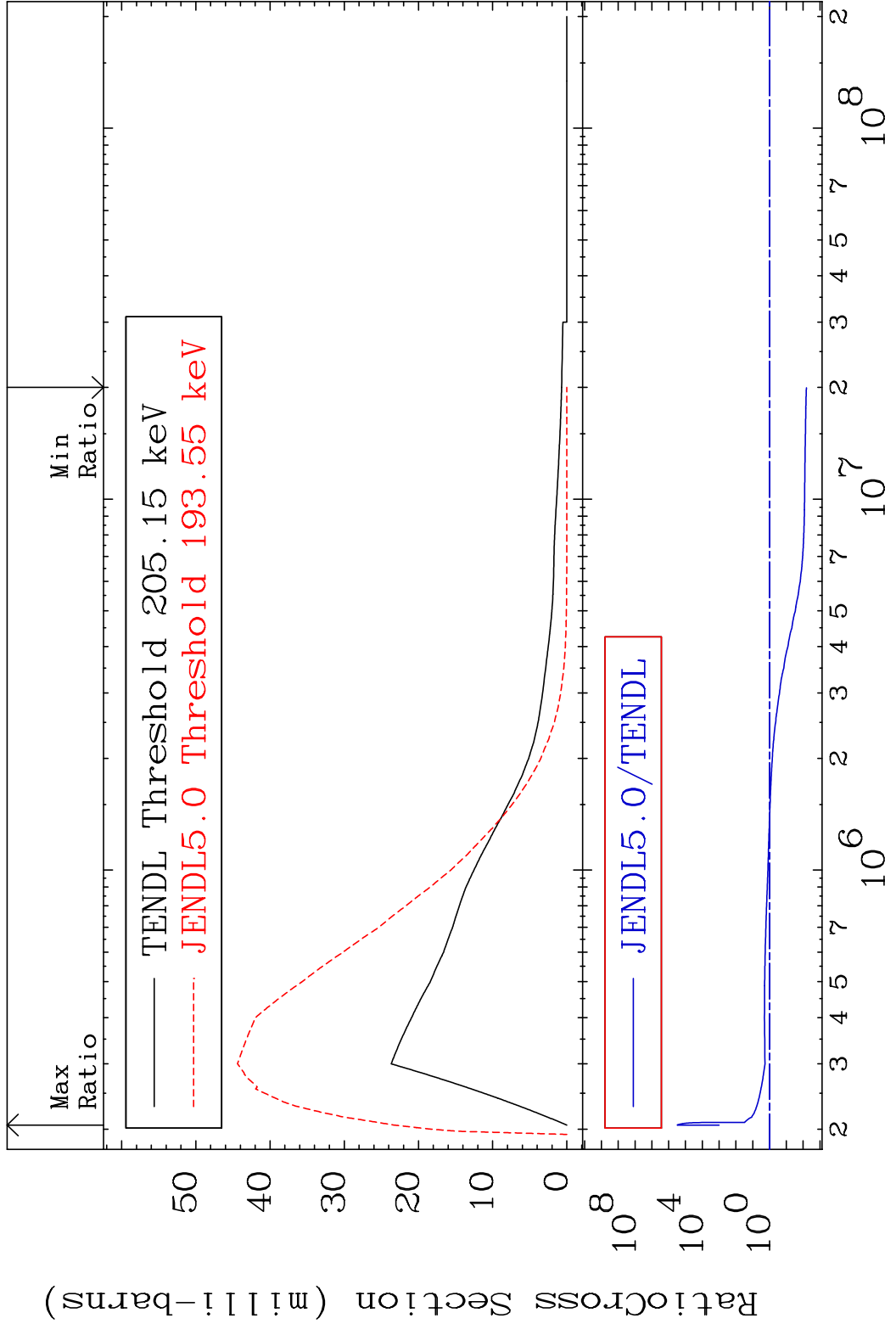
MAT 6334 MT= 70 (n,n') Level 63-Eu-154
 Cross Section 42.06 To 9999. %



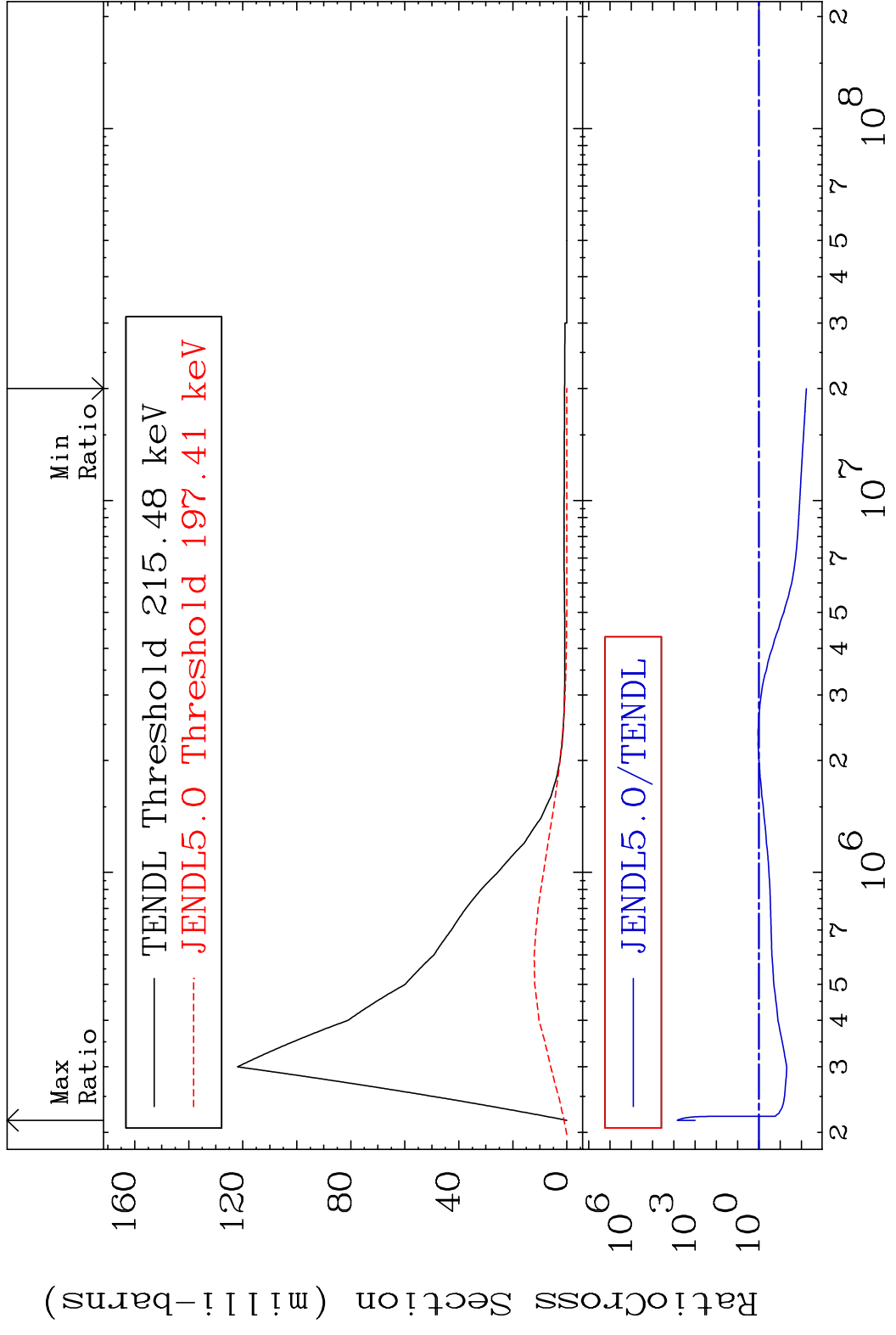
MAT 6334 MT= 71 (n,n') Level 63-Eu-154
 Cross Section -99.16 To 9999. %



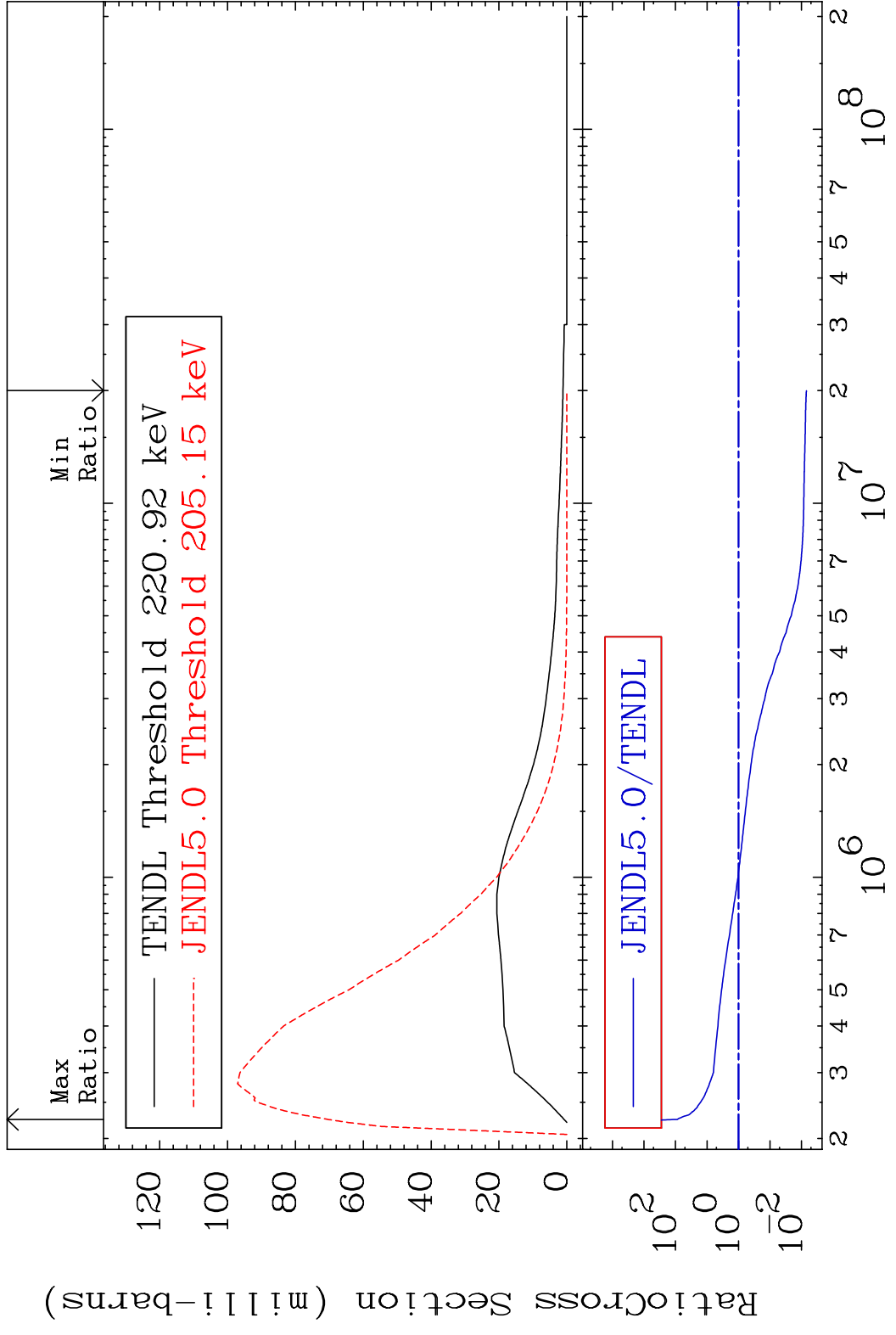
MAT 6334 MT= 72 (n,n') Level 63-Eu-154
 Cross Section -99.36 To 9999. %



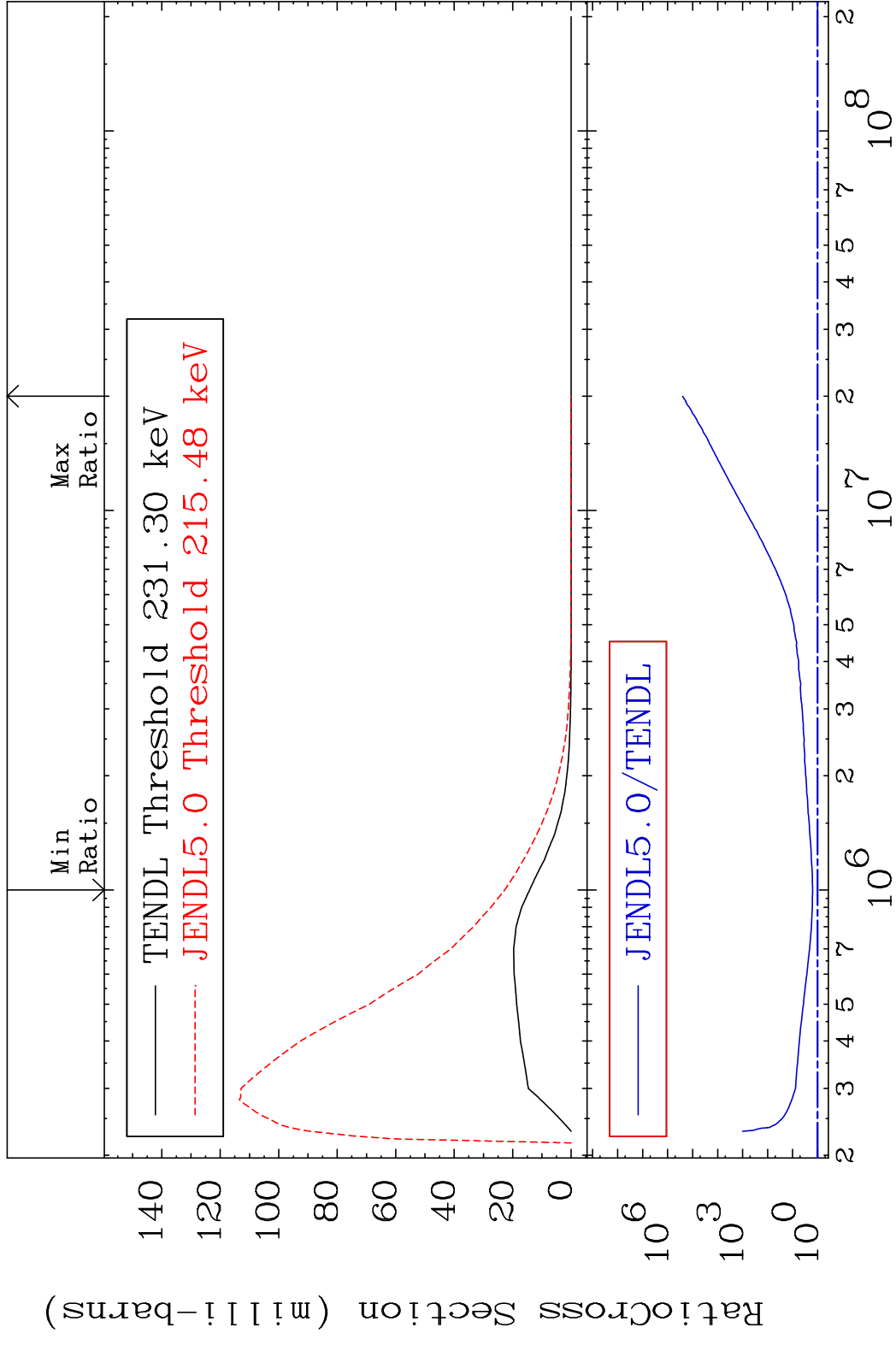
MAT 6334 MT= 73 (n, n') Level 63-Eu-154
 Cross Section -99.41 To 9999. %



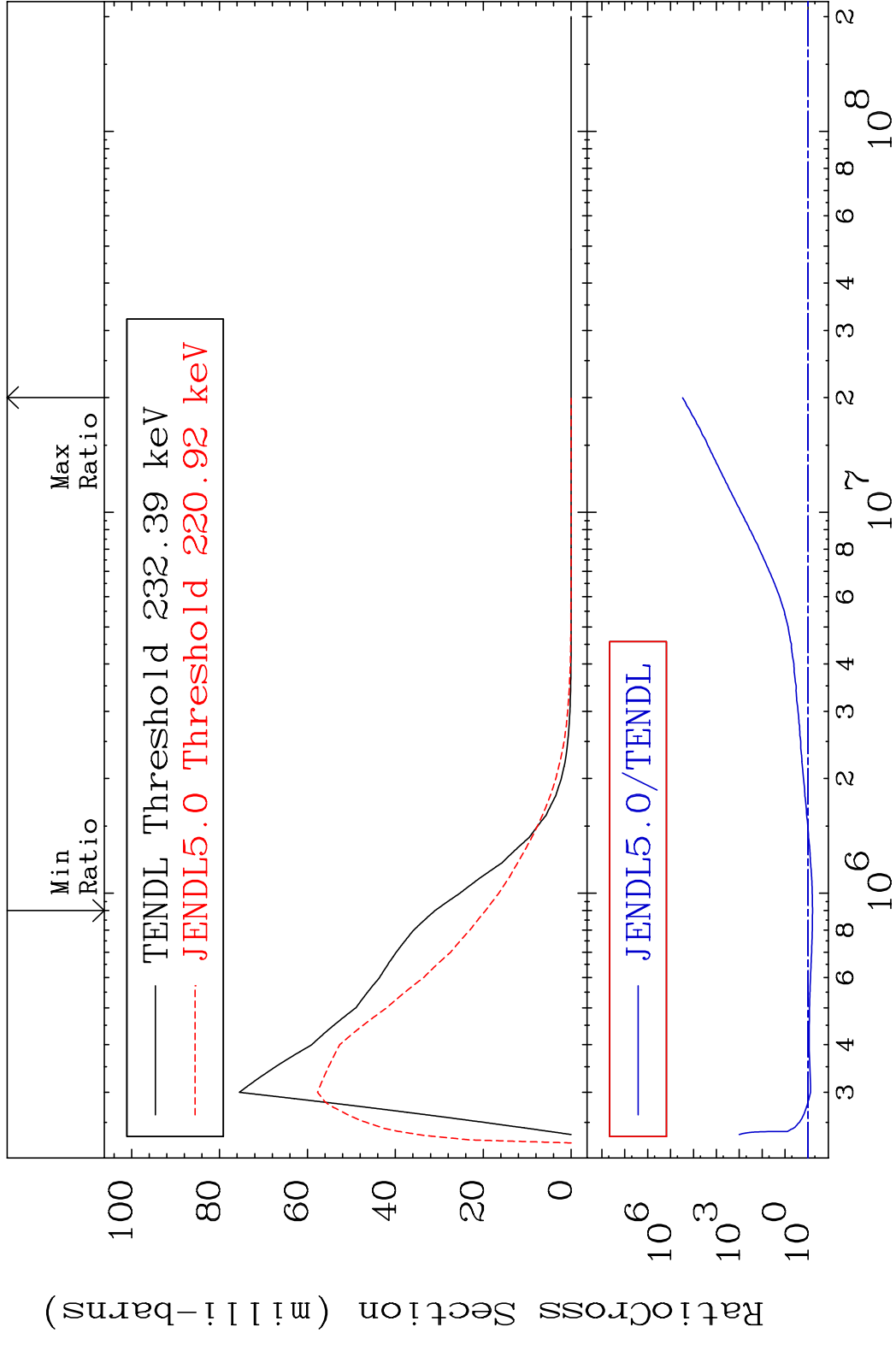
MAT 6334 MT= 74 (n,n') Level 63-Eu-154
 Cross Section -99.31 To 8745. %



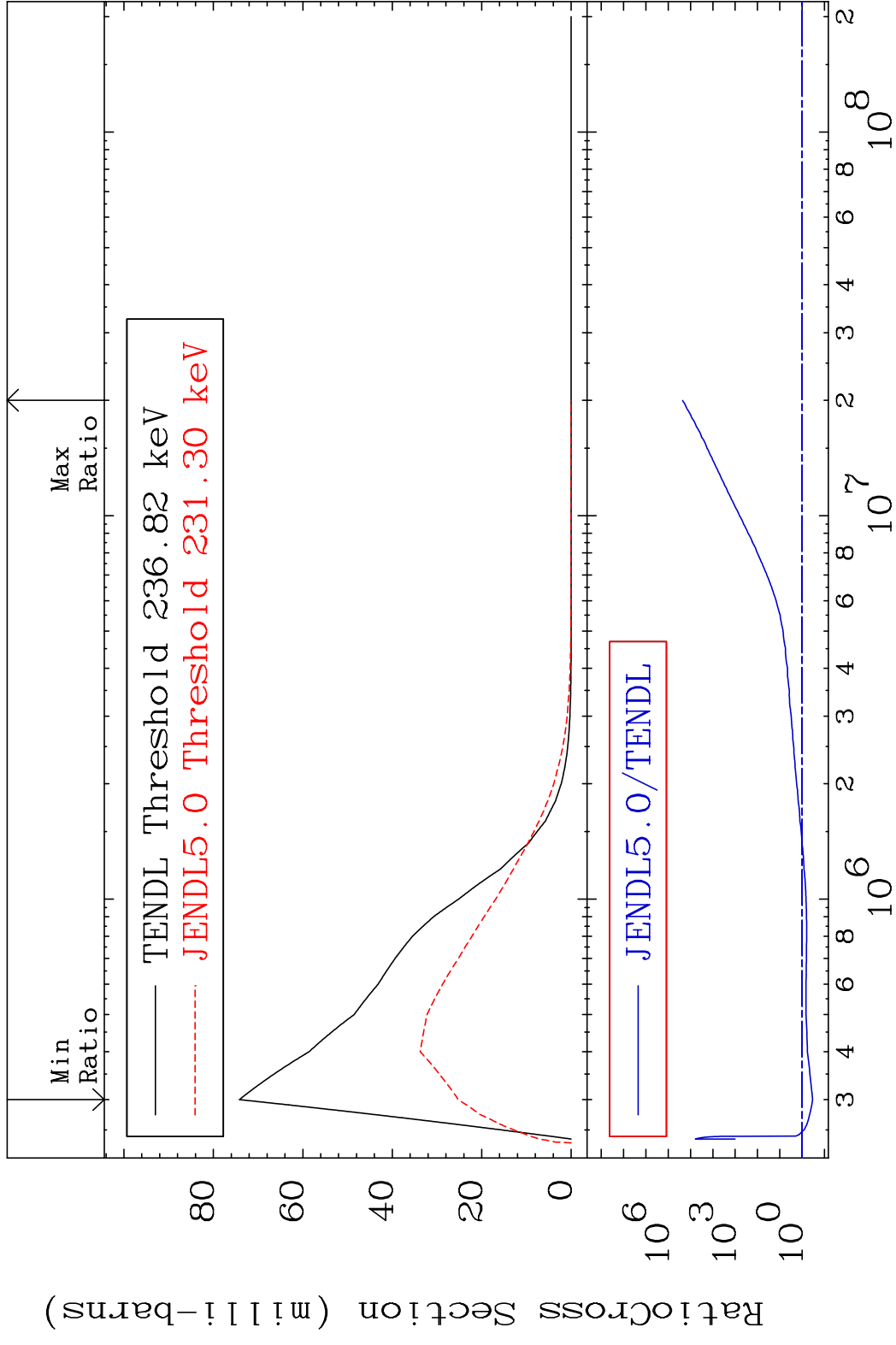
MAT 6334 MT= 75 (n,n') Level 63-Eu-154
 Cross Section 59.77 To 9999. %



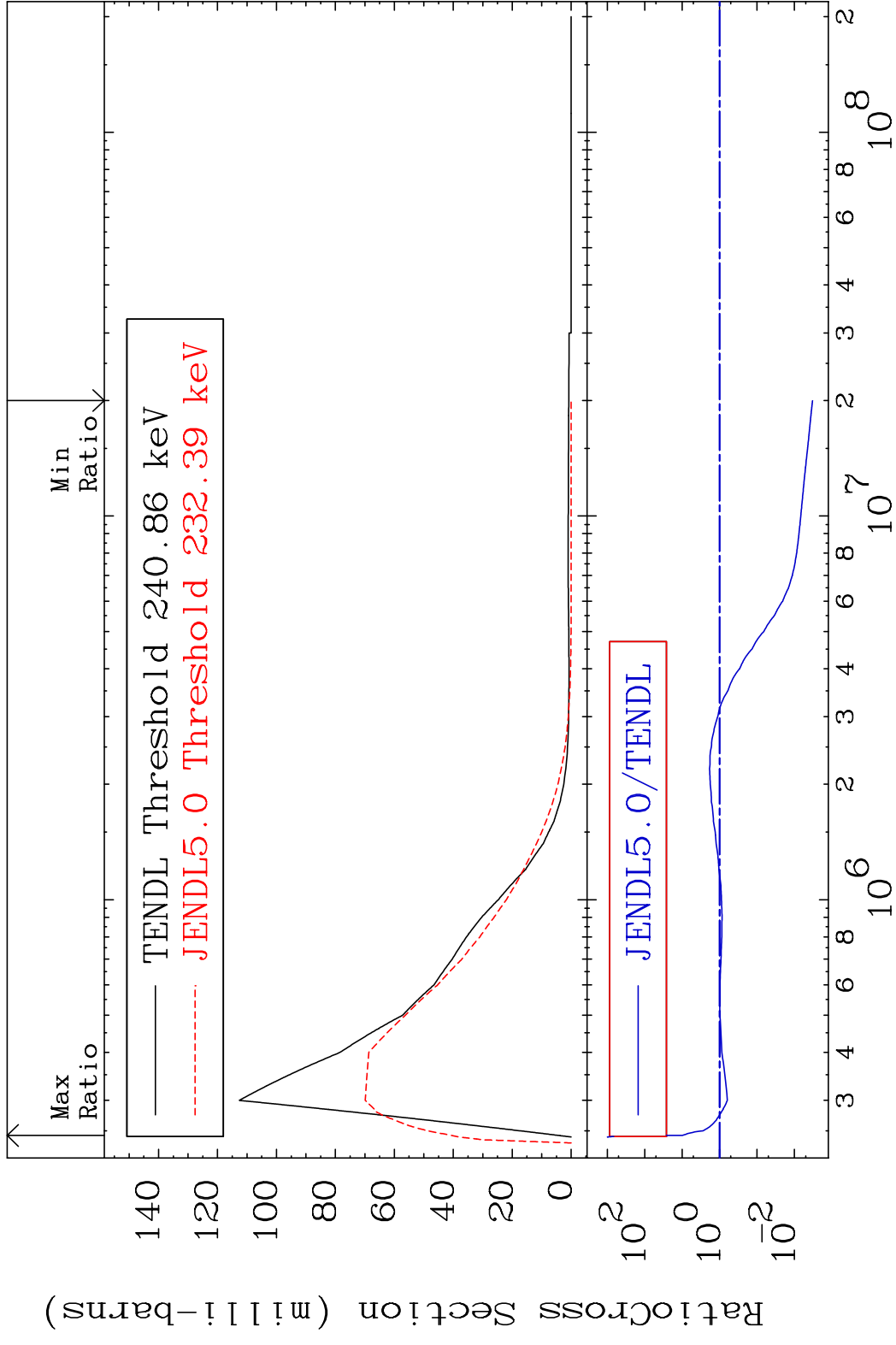
MAT 6334 MT= 76 (n,n') Level 63-Eu-154
 Cross Section -37.13 To 9999. %



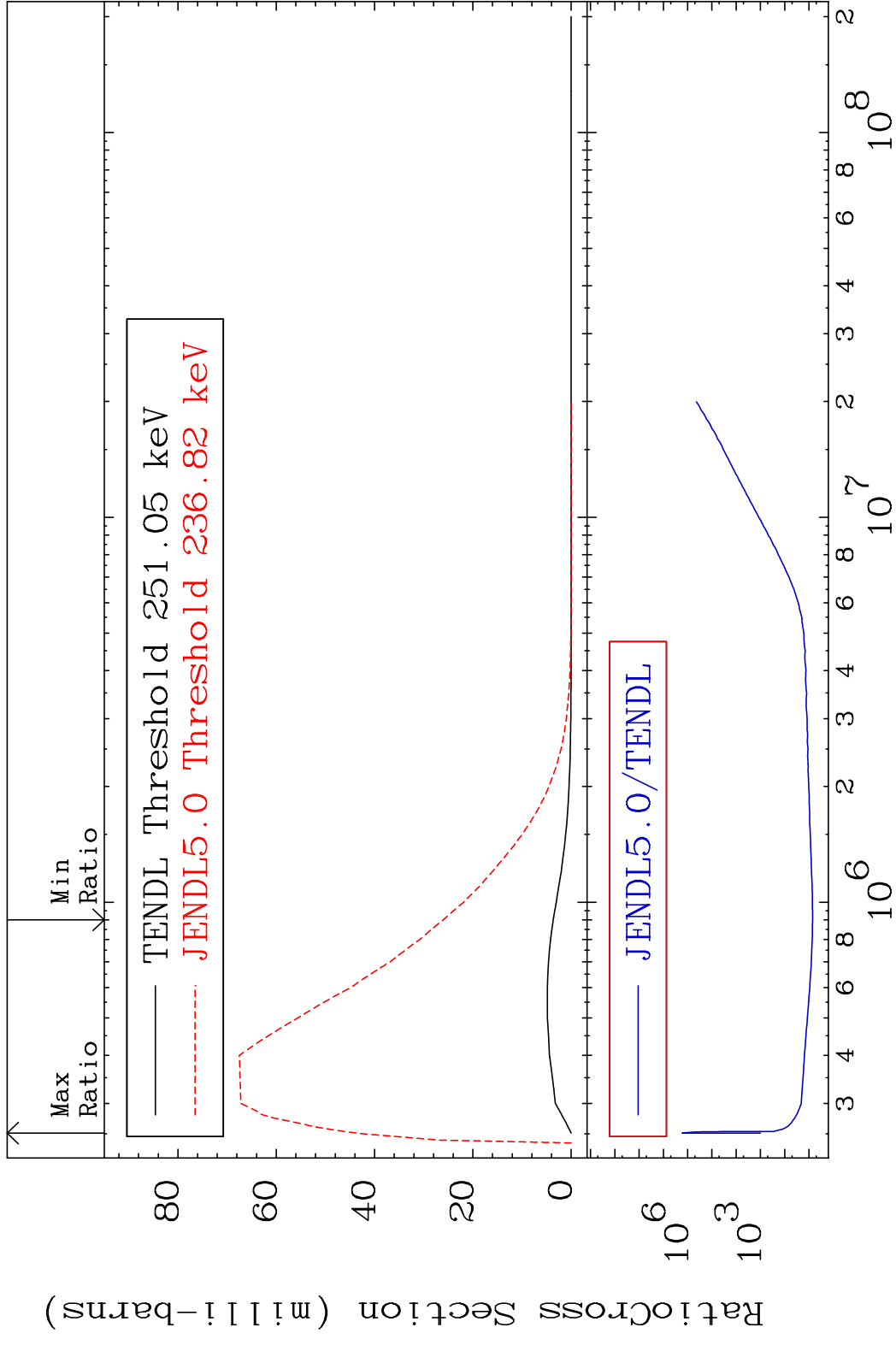
MAT 6334 MT= 77 (n,n') Level 63-Eu-154
 Cross Section -65.99 To 9999. %



MAT 6334 MT= 78 (n,n') Level 63-Eu-154
 Cross Section -99.67 To 887.8 %

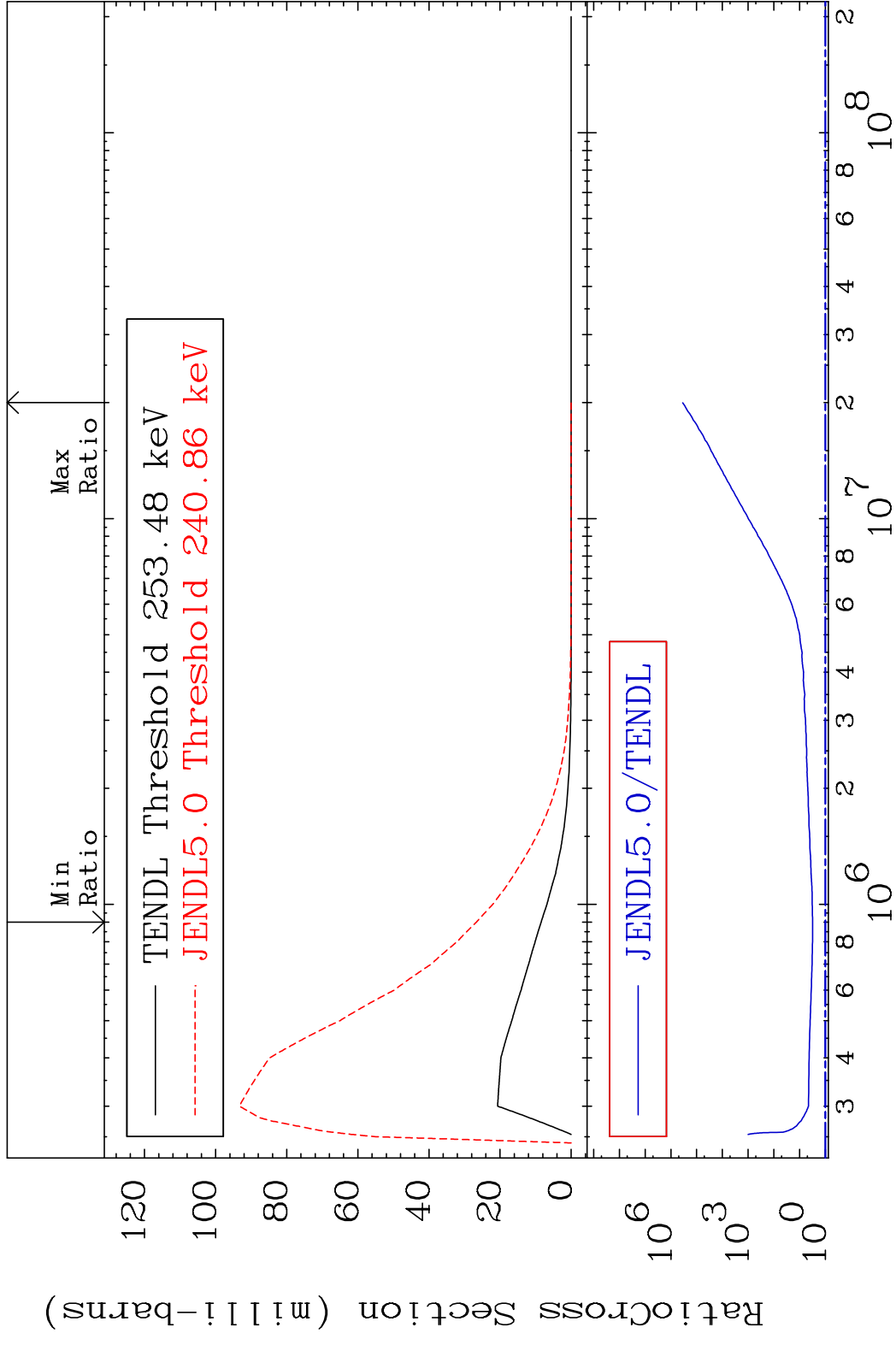


MAT 6334 MT= 79 (n,n') Level 63-Eu-154
 Cross Section 611.5 To 9999. %



40 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 80 (n, n') Level 63-Eu-154
 Cross Section 215.2 To 9999. %

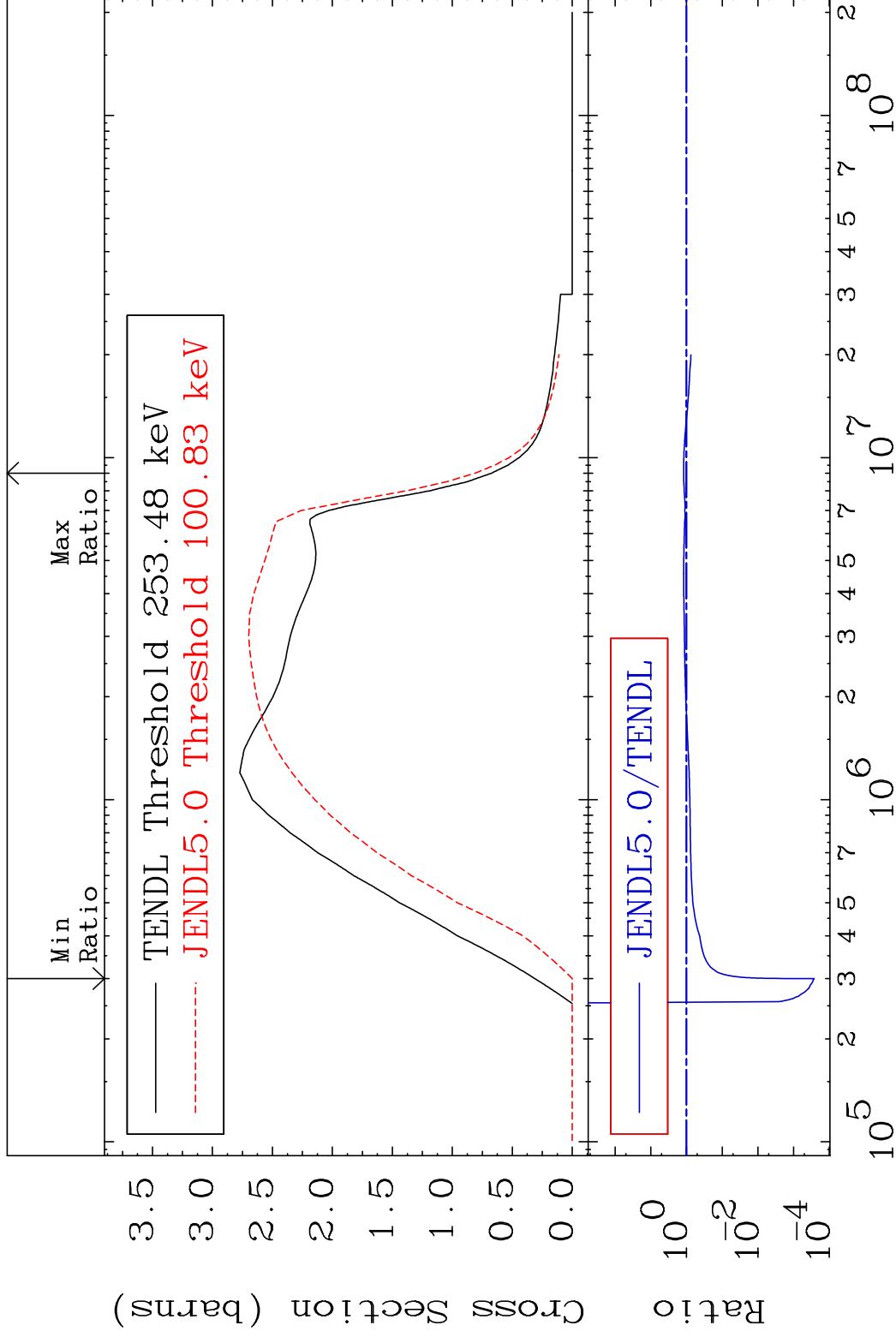


MAT 6334

(n, n') Continuum

63-Eu-154

Cross Section -99.97 To 20.42 %



42

Incident Energy (eV)

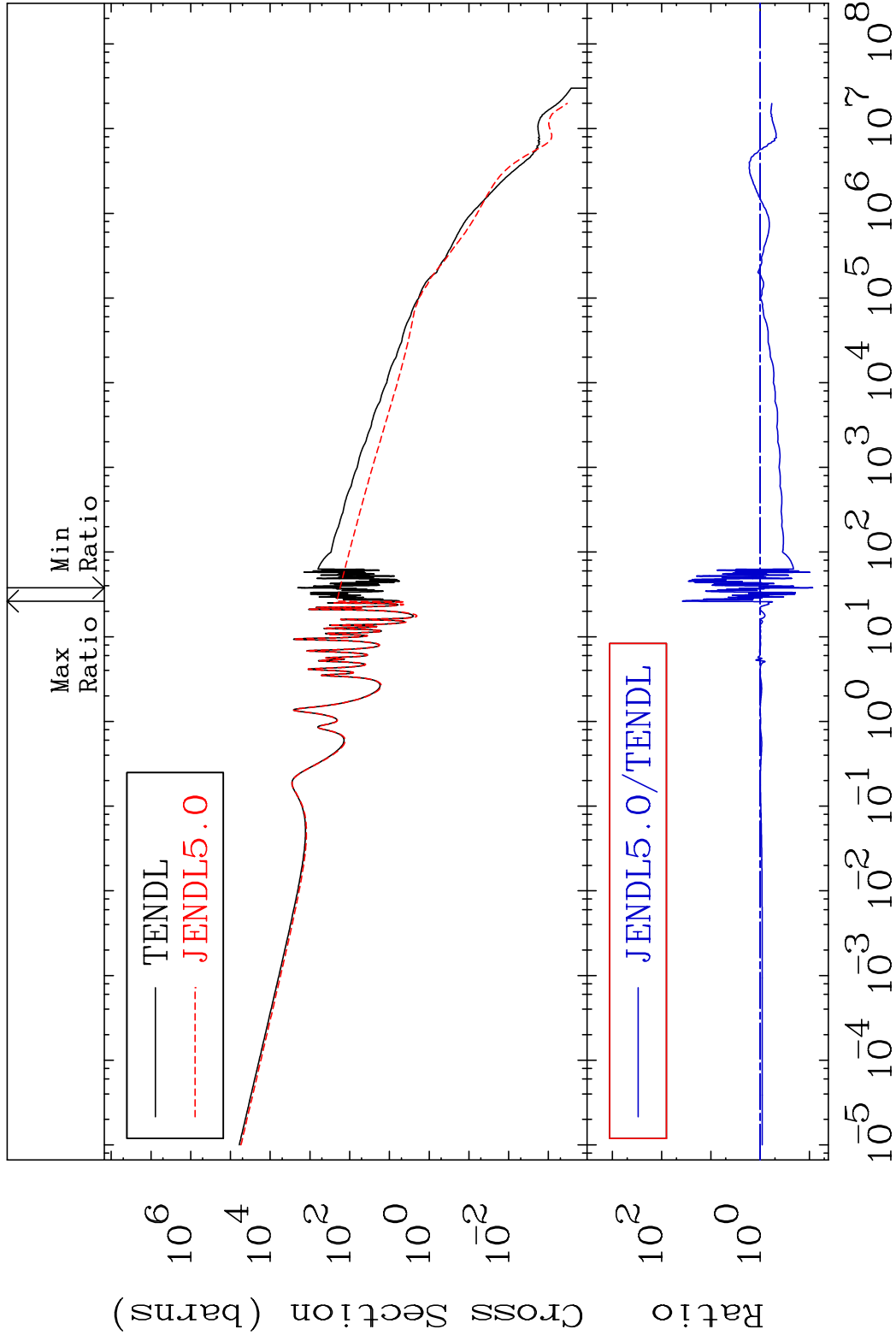
63-Eu-154

MAT 6334

(n, γ)

63-Eu-154

Cross Section -91.34 To 3691. %



43

Incident Energy (eV)

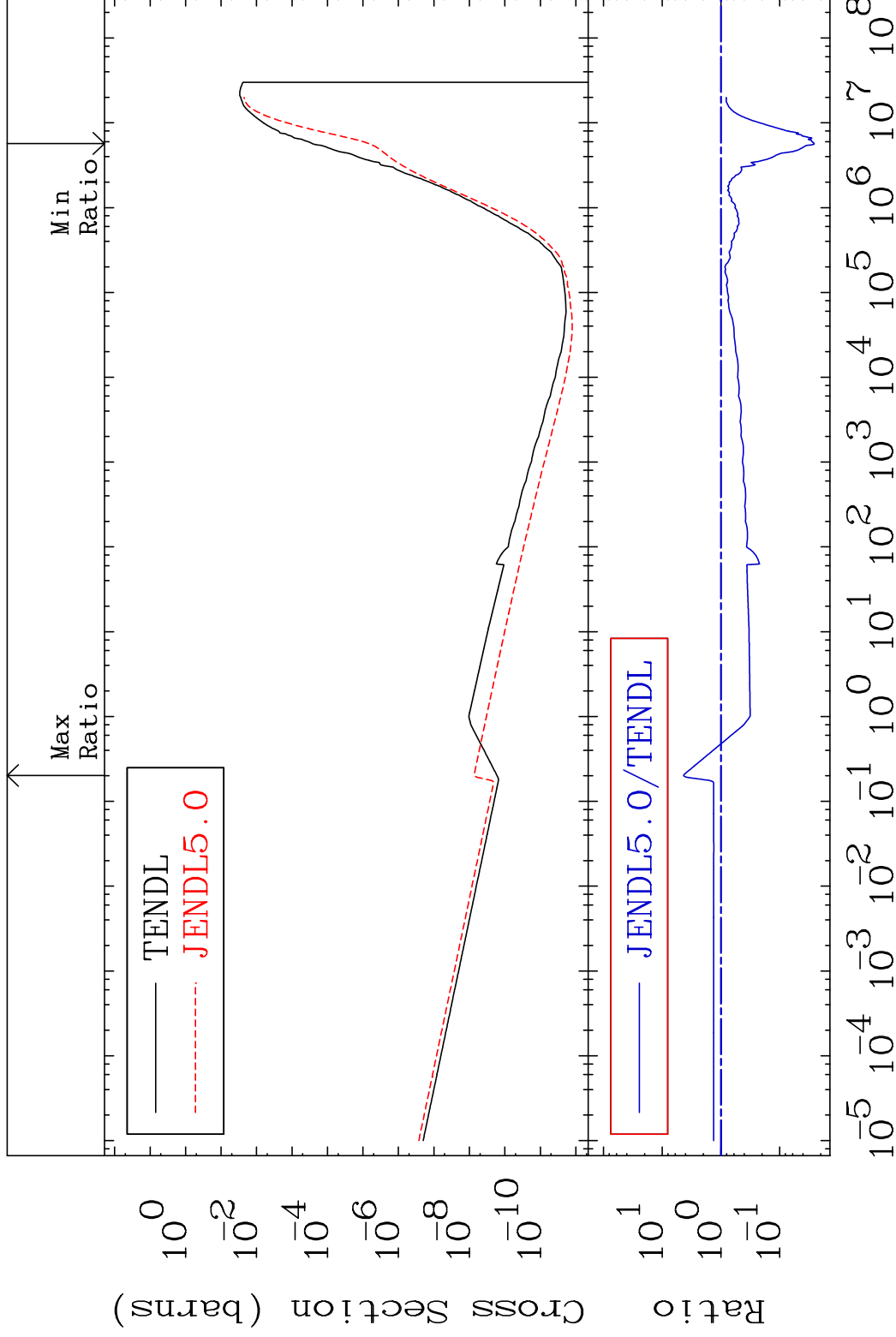
63-Eu-154

MAT 6334

(n, p)

63-Eu-154

Cross Section -97.41 To 331.2 %



44

Incident Energy (eV)

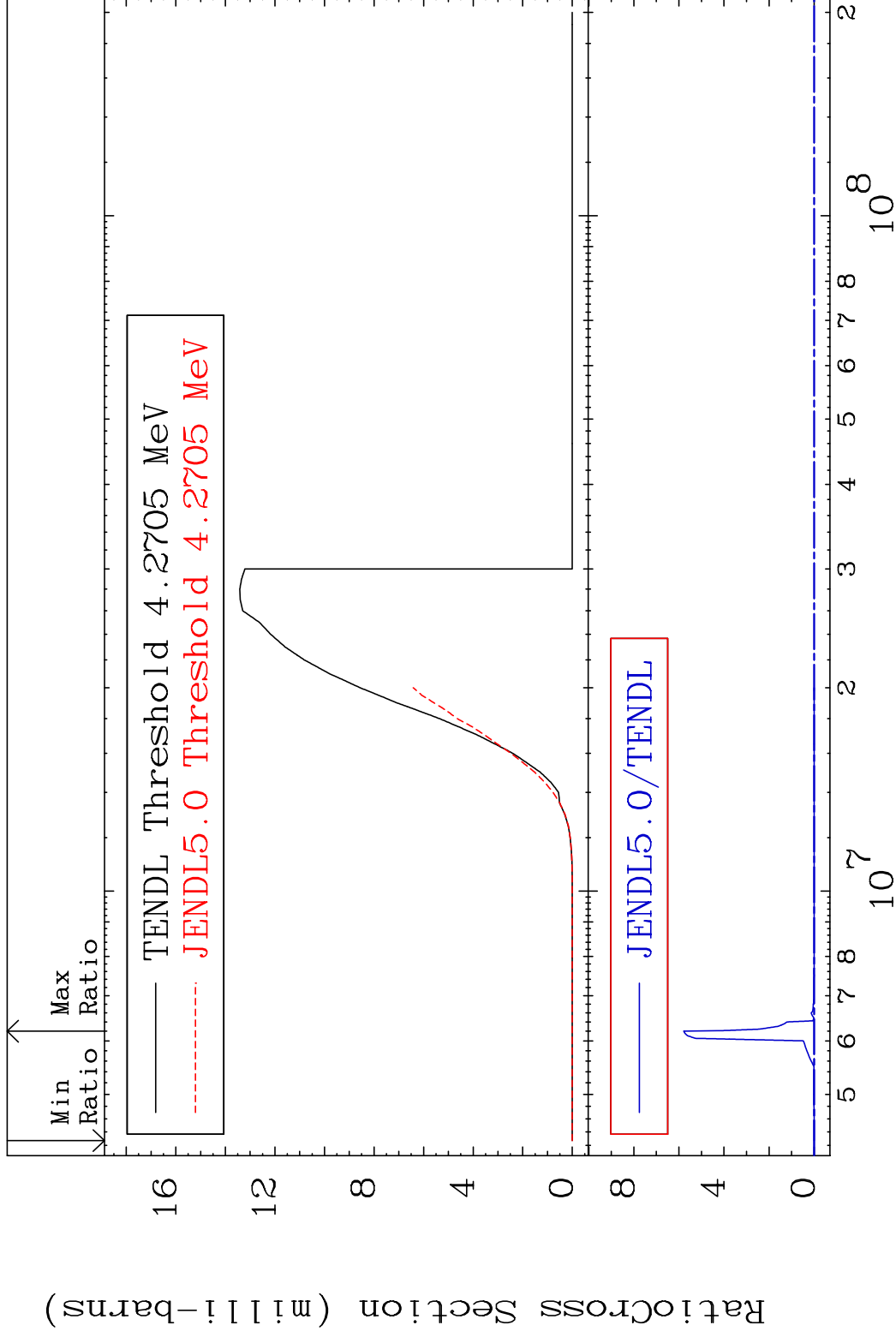
63-Eu-154

MAT 6334

(n,d)

63-Eu-154

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

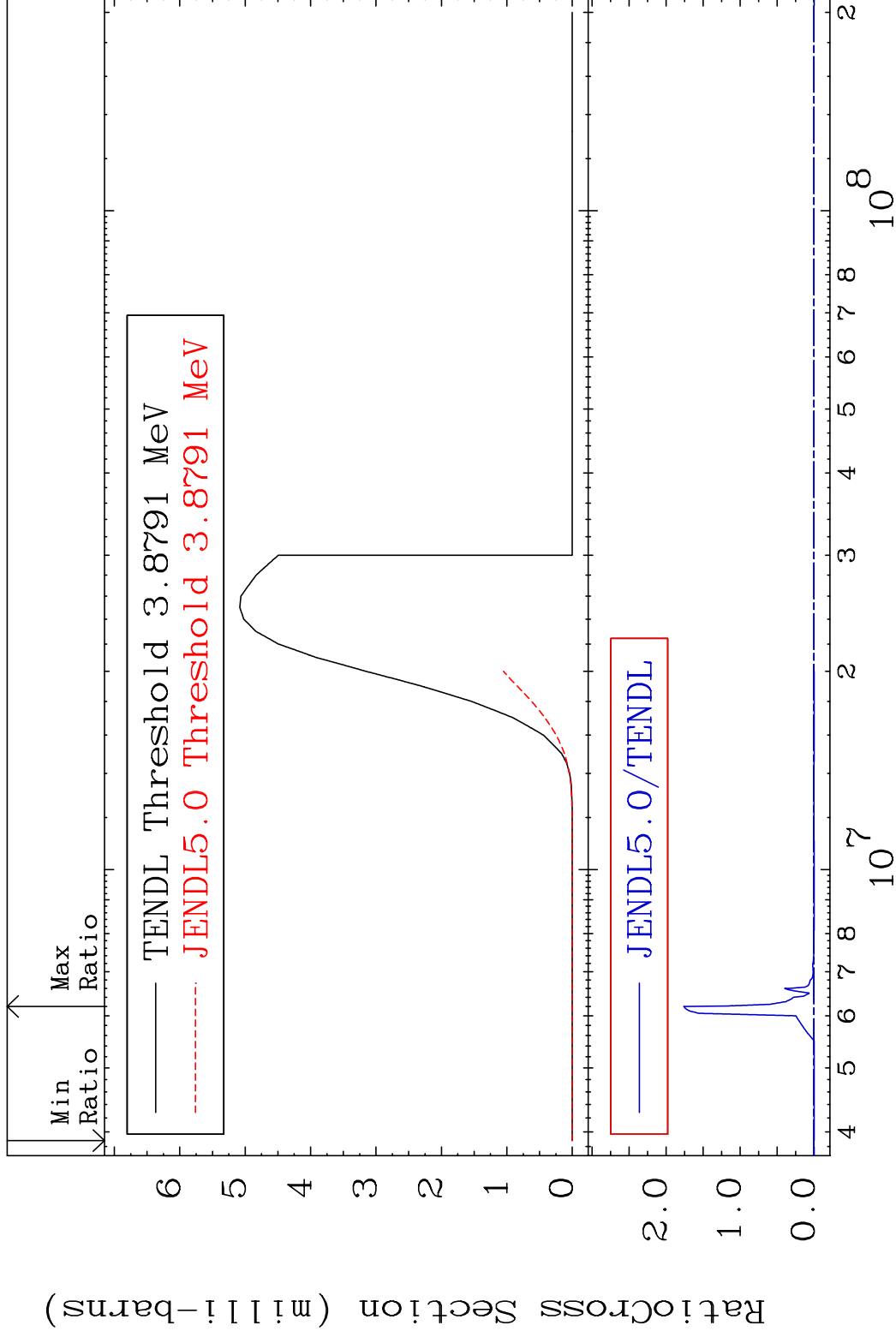
63-Eu-154

MAT 6334

(n, t)

63-Eu-154

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

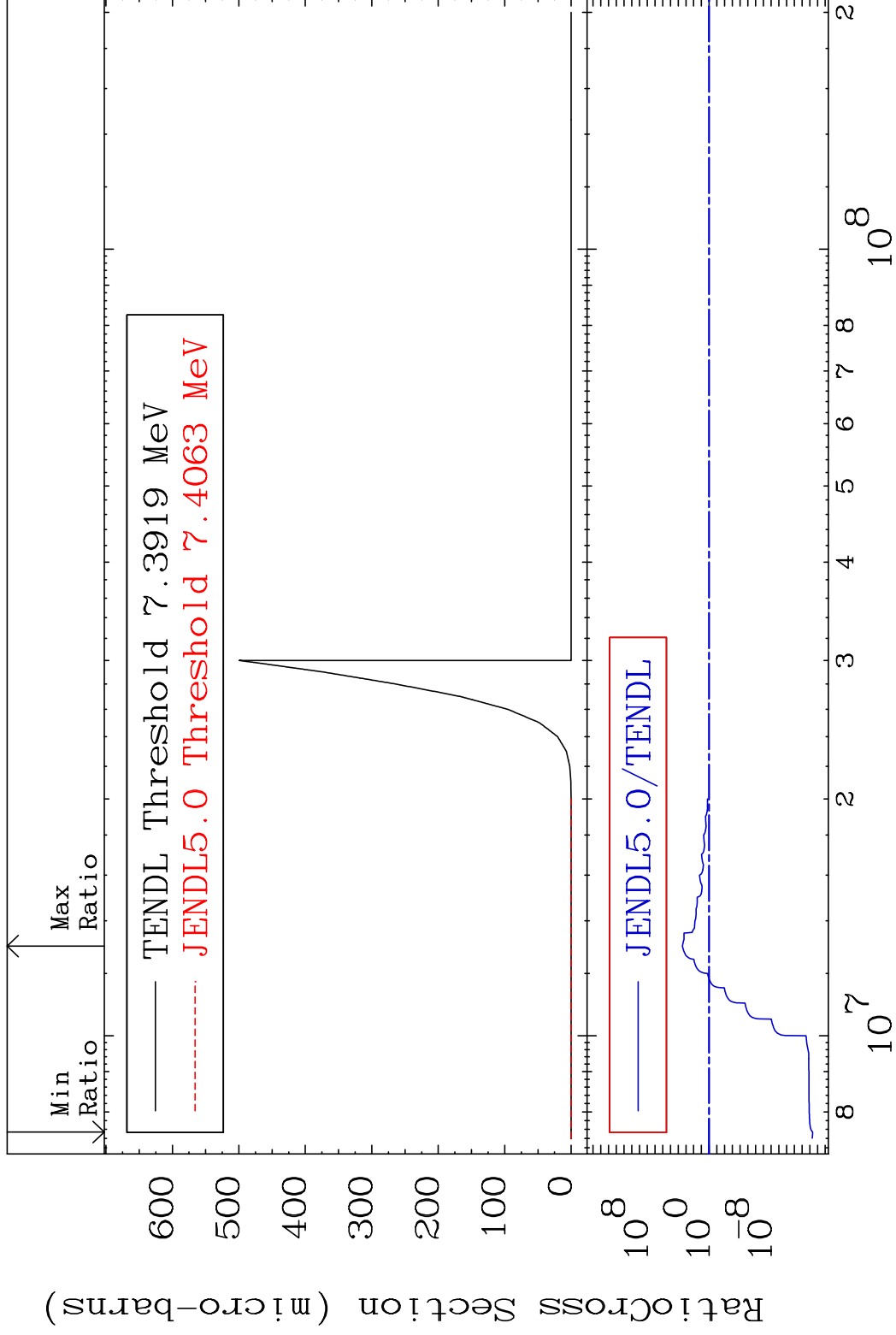
63-Eu-154

MAT 6334

(n, He-3)

63-Eu-154

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

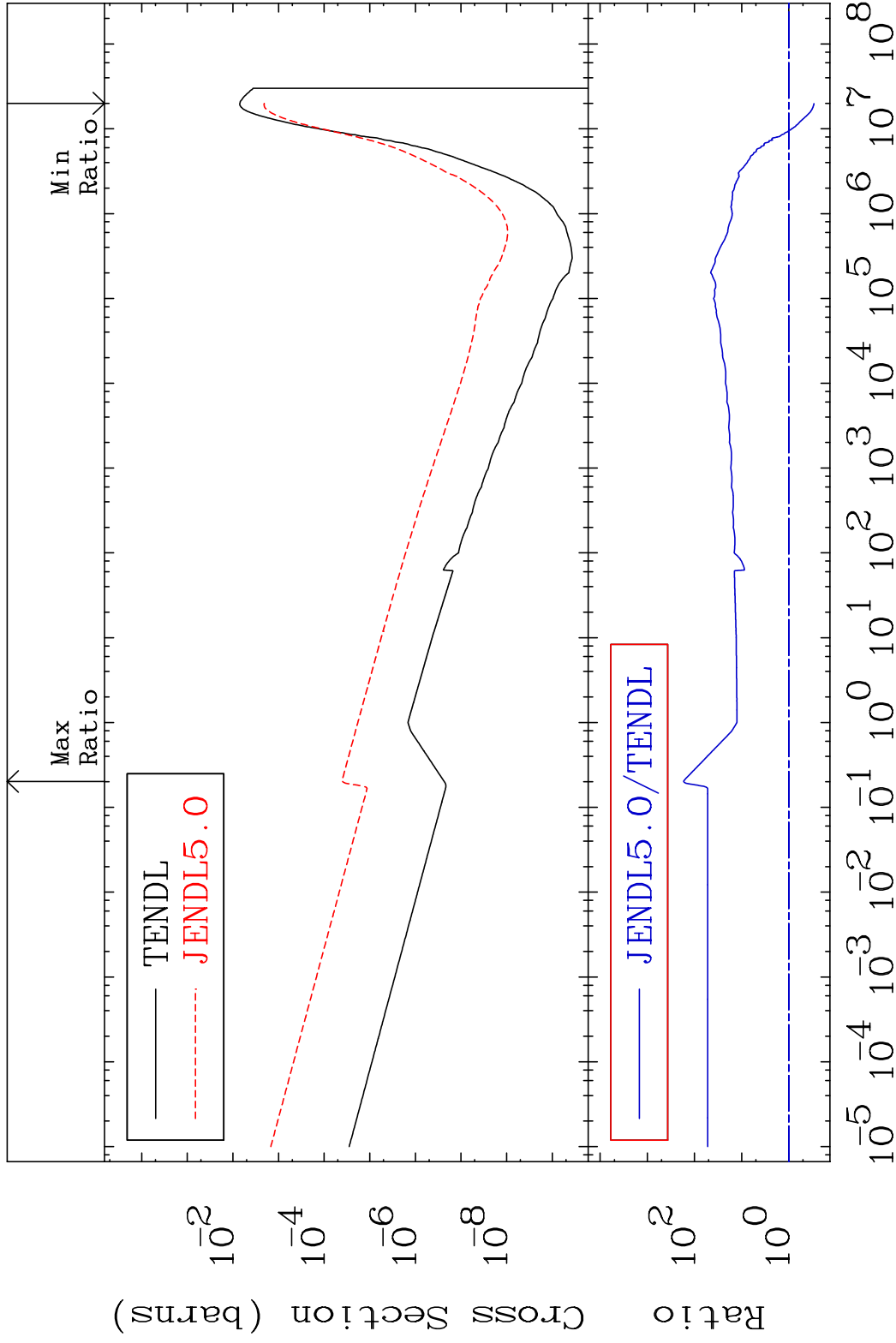
63-Eu-154

MAT 6334

(n, α)

63-Eu-154

Cross Section -70.99 To 9999. %



48

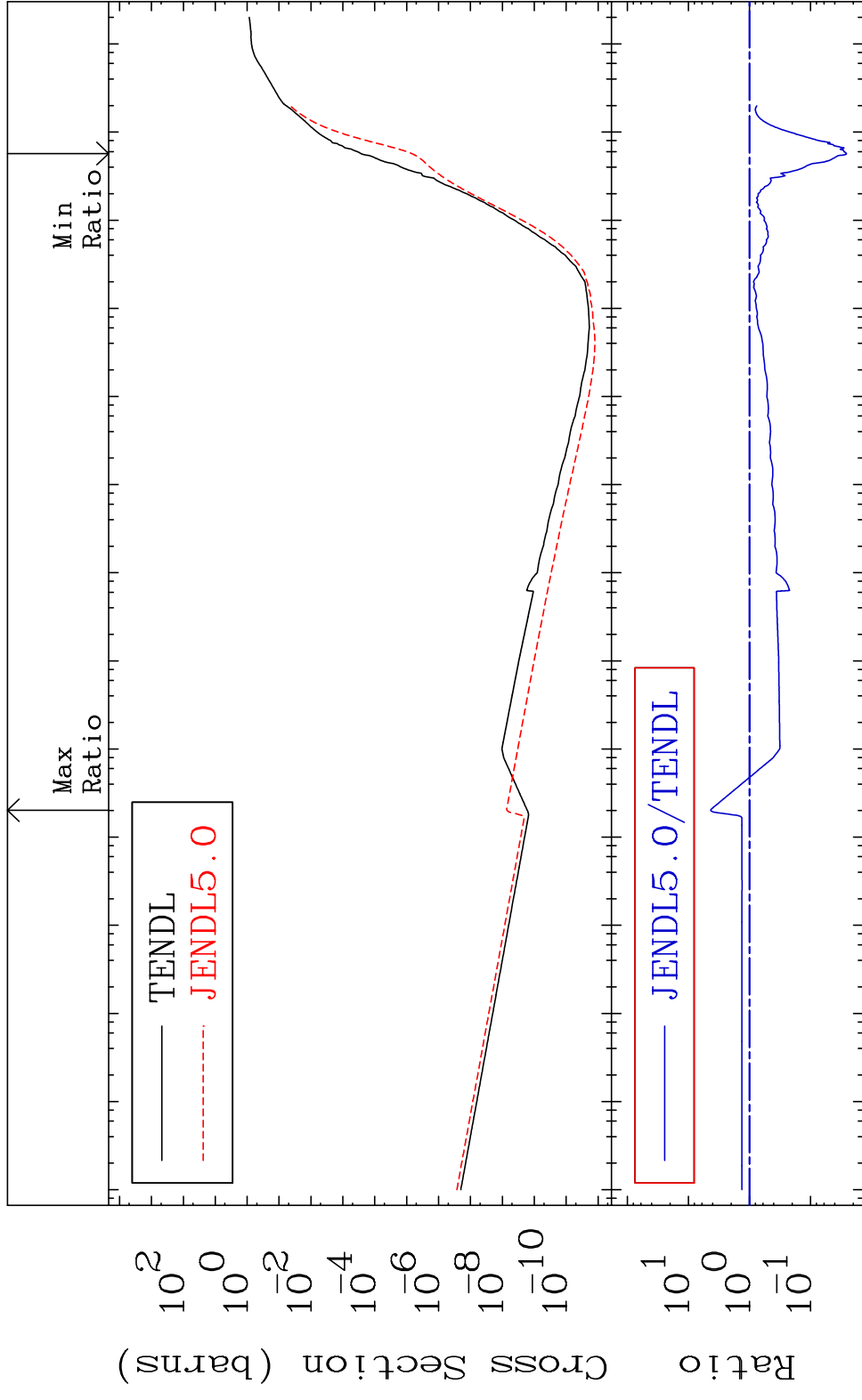
Incident Energy (eV)

63-Eu-154

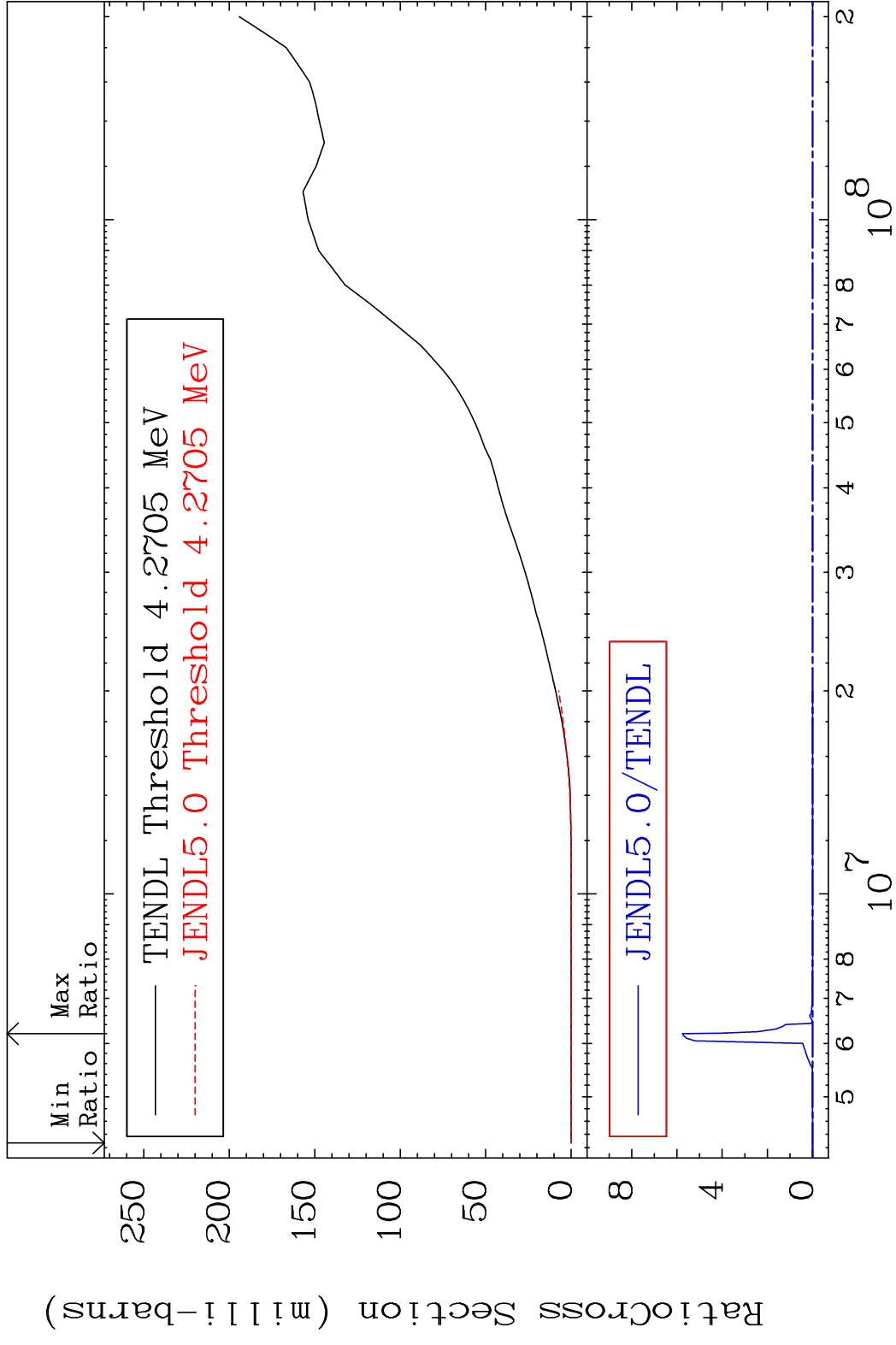
MAT 6334

Hydrogen Production
Cross Section -97.41 To 331.2 %

63-Eu-154

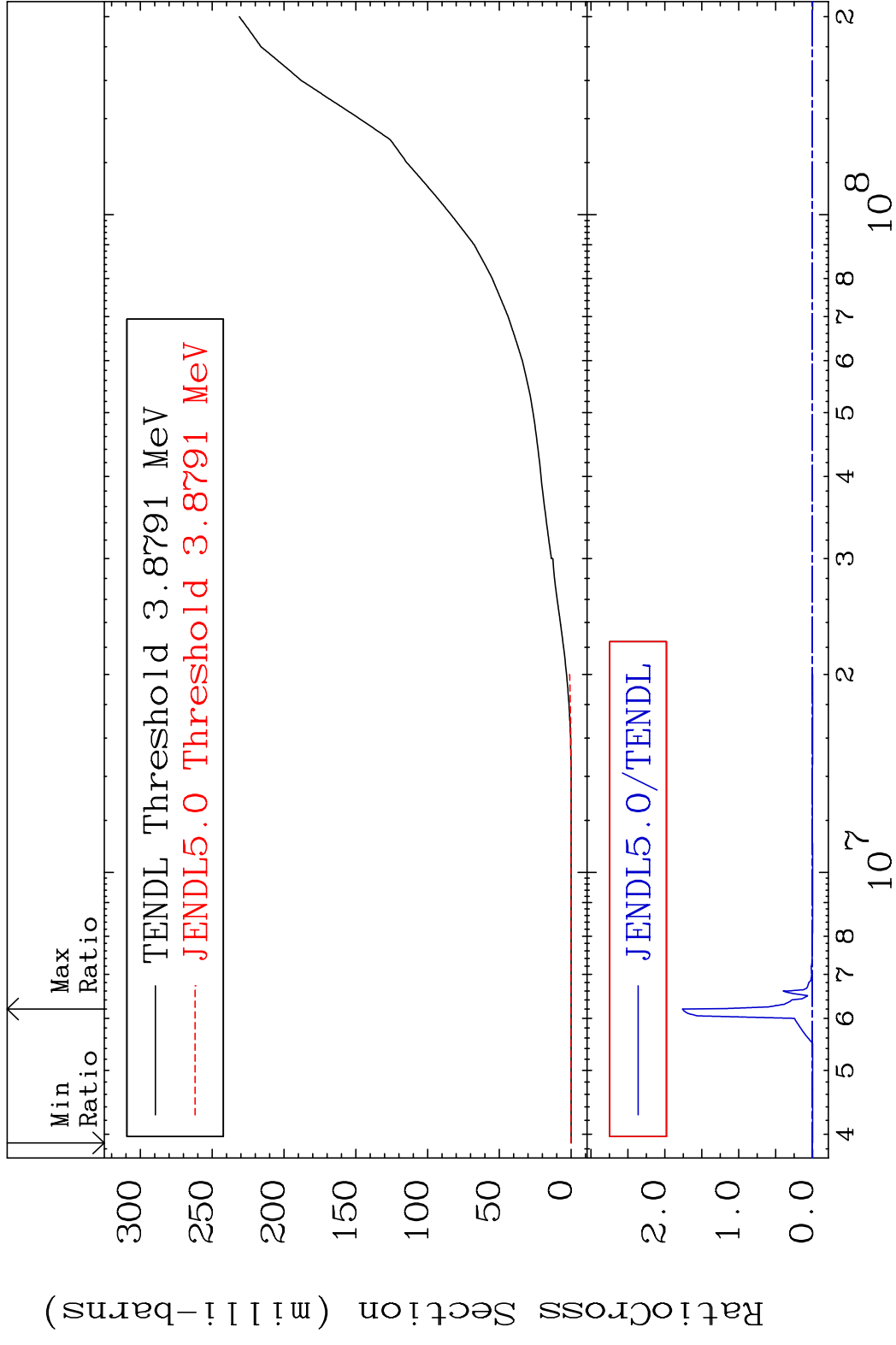


MAT 6334 Deuterium Production 63-Eu-154
 Cross Section -100.0 To 9999. %



50 Incident Energy (eV) 63-Eu-154

MAT 6334 Tritium Production 63-Eu-154
 Cross Section -100.0 To 9999. %

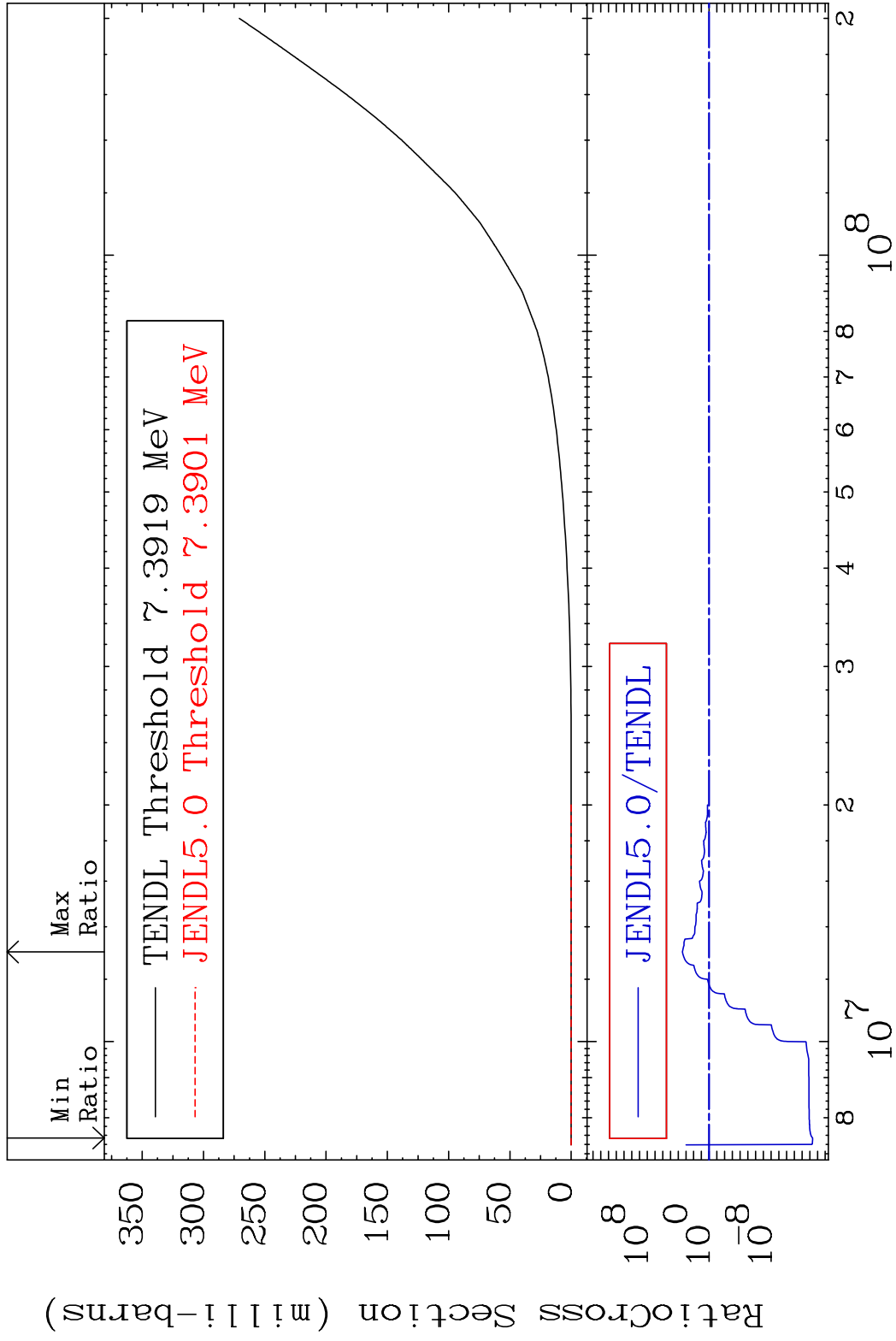


MAT 6334

He-3 Production

63-Eu-154

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

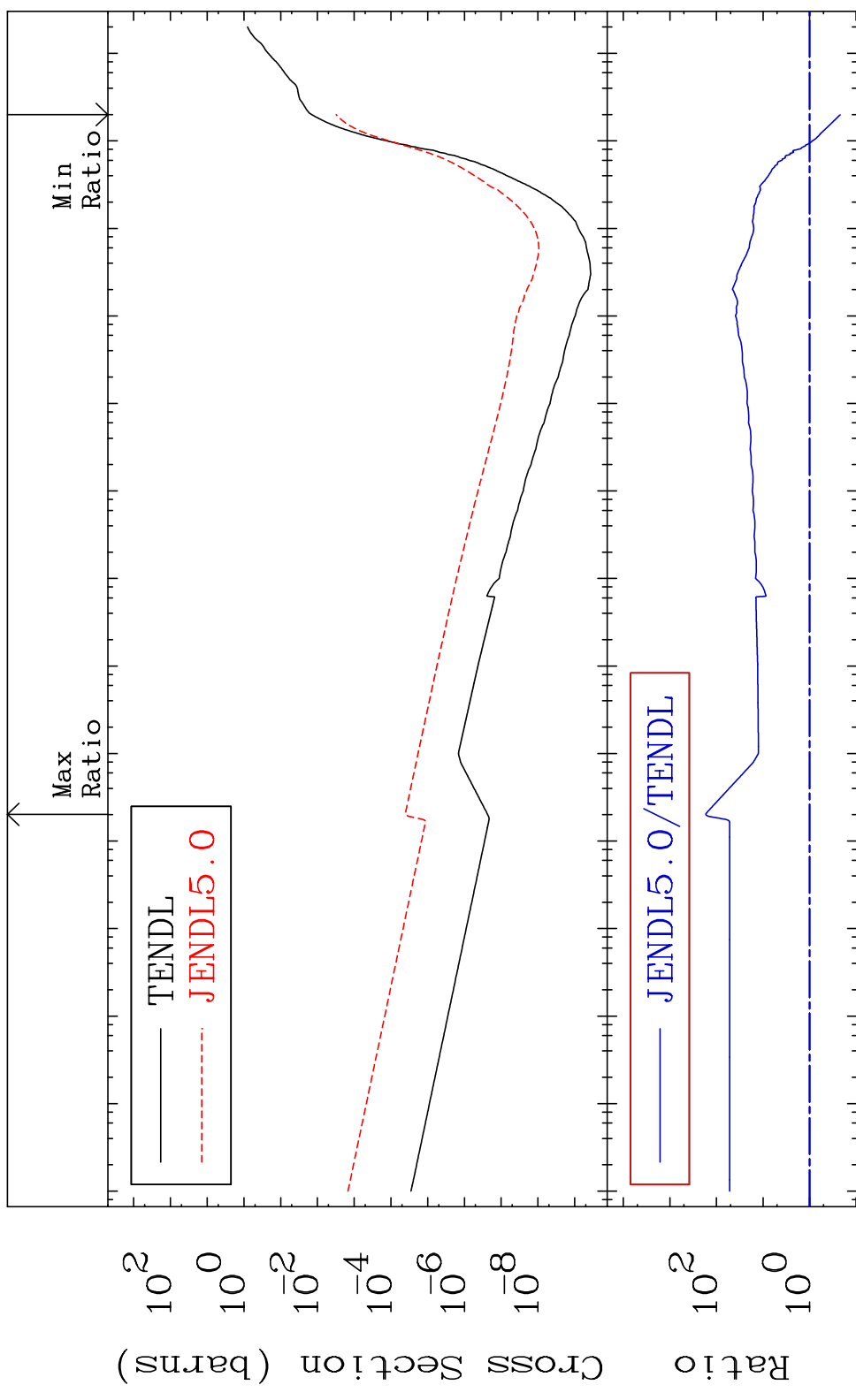
63-Eu-154

MAT 6334

He-4 Production

63-Eu-154

Cross Section -78.27 To 9999. %



Cross Section (barns)

Ratio

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

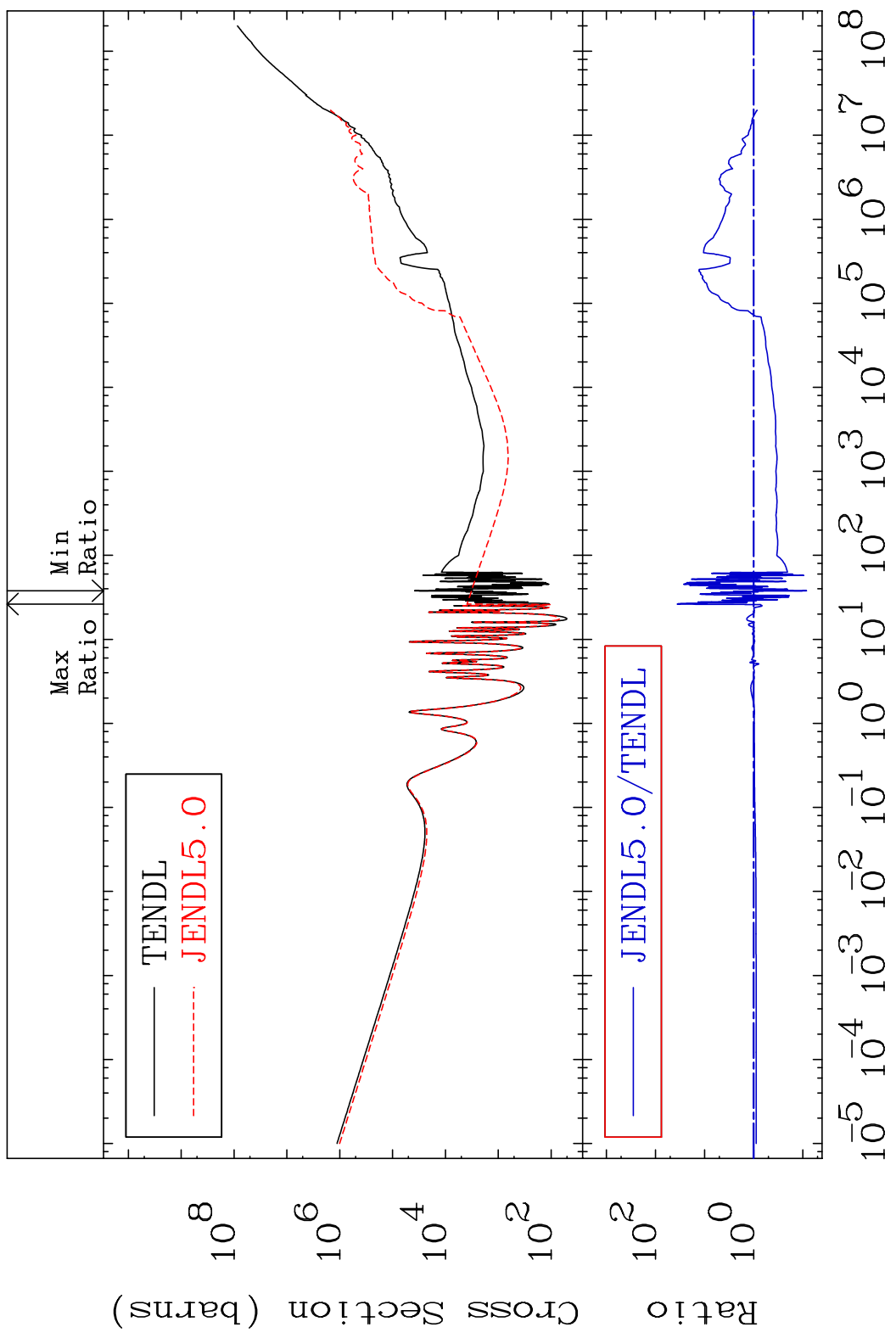
53

Incident Energy (eV)

63-Eu-154

MAT 6334

Kerma total (eV-barns) 63-Eu-154
Cross Section -91.55 To 3509. %



54

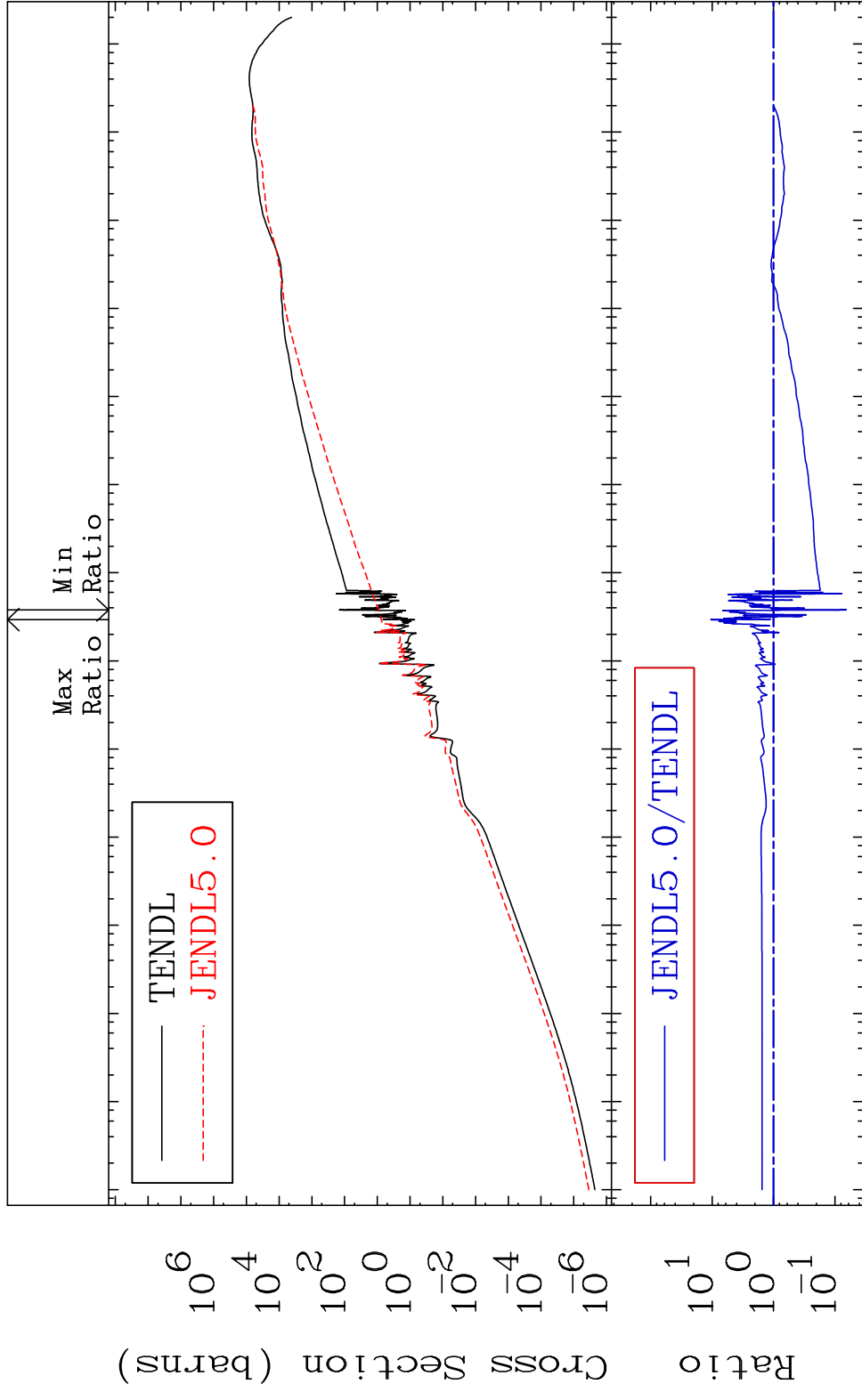
Incident Energy (eV)

63-Eu-154

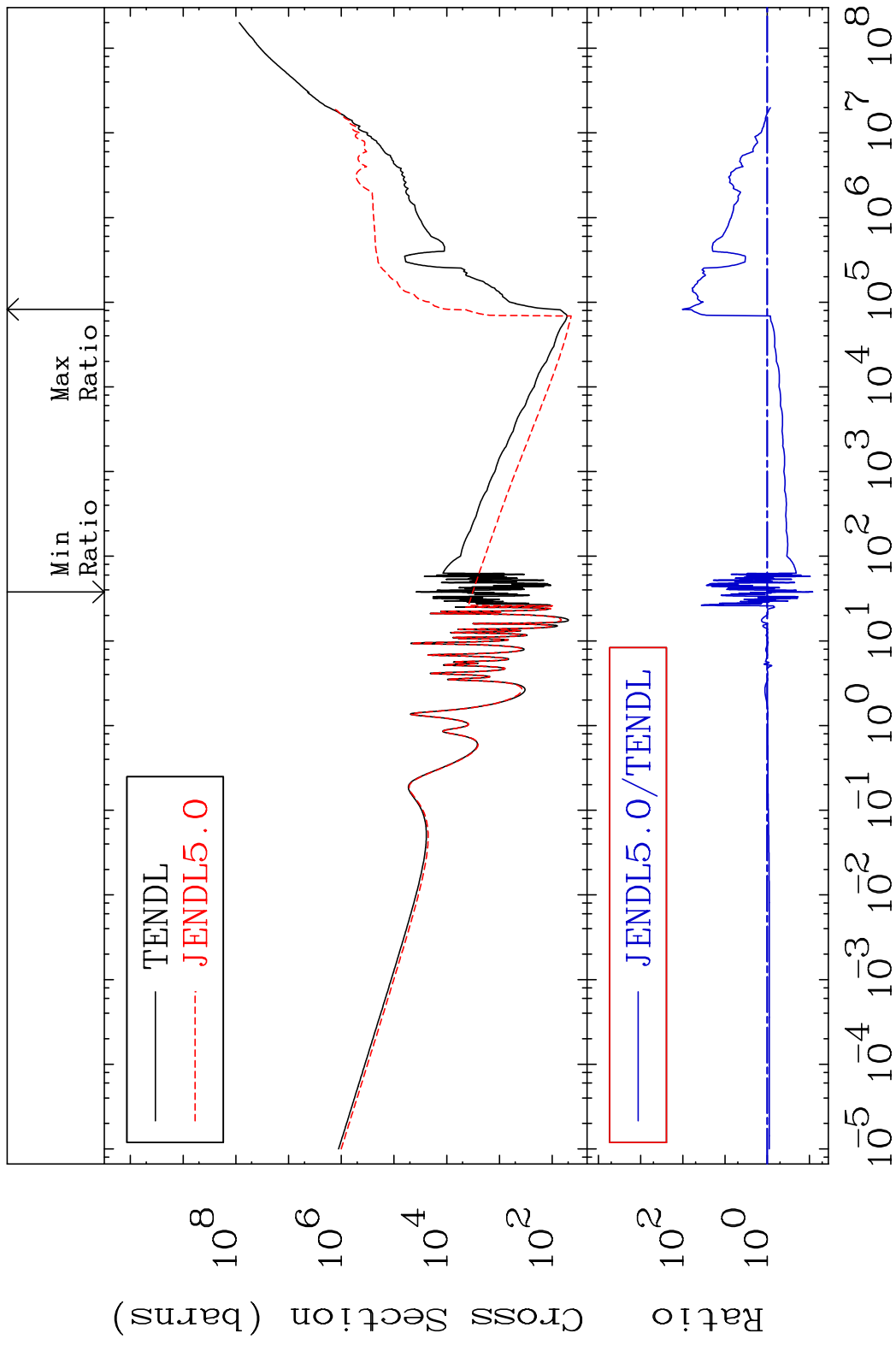
MAT 6334

Kerma elastic Cross Section -93.49 To 953.8 %

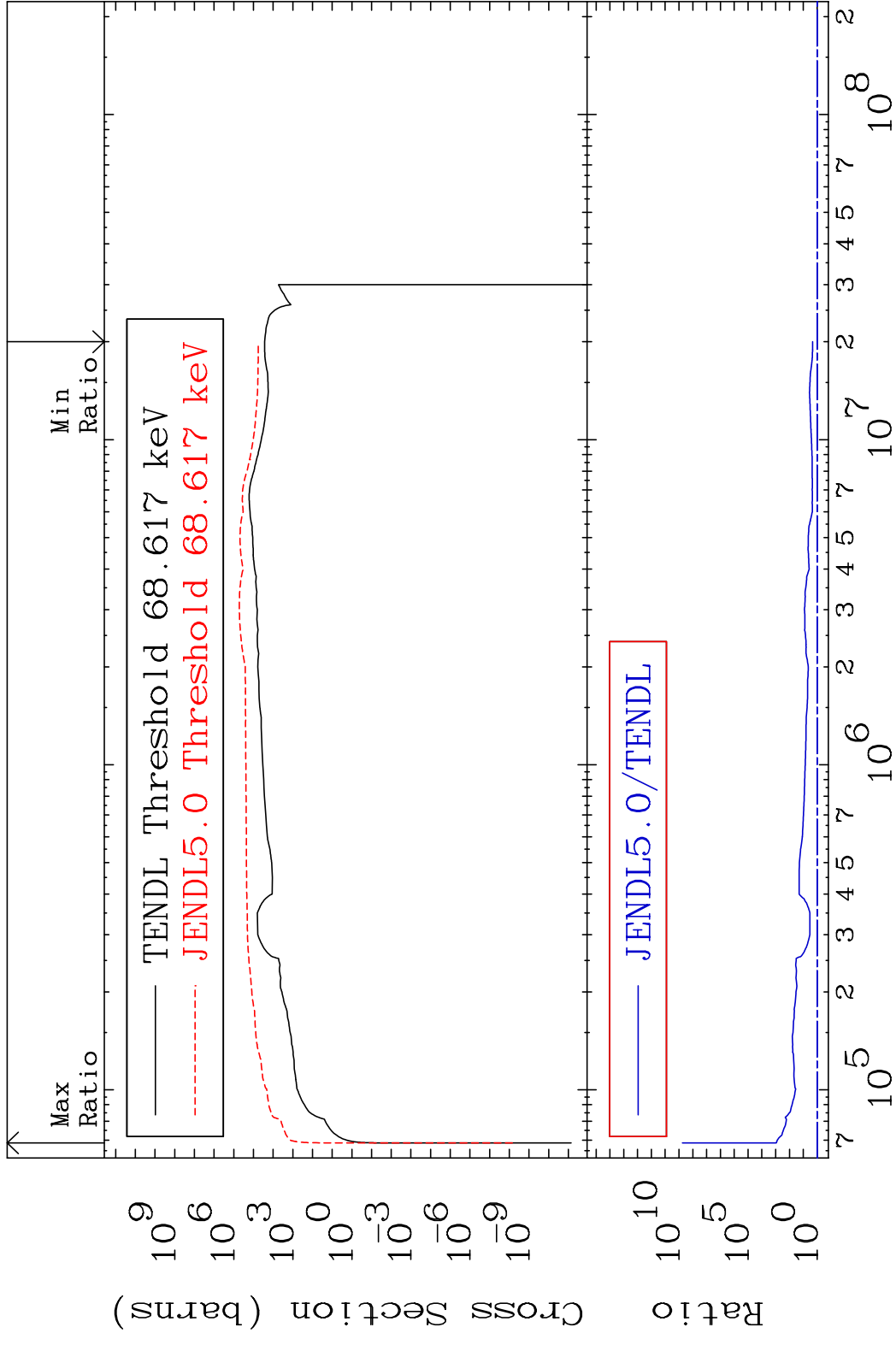
63-Eu-154



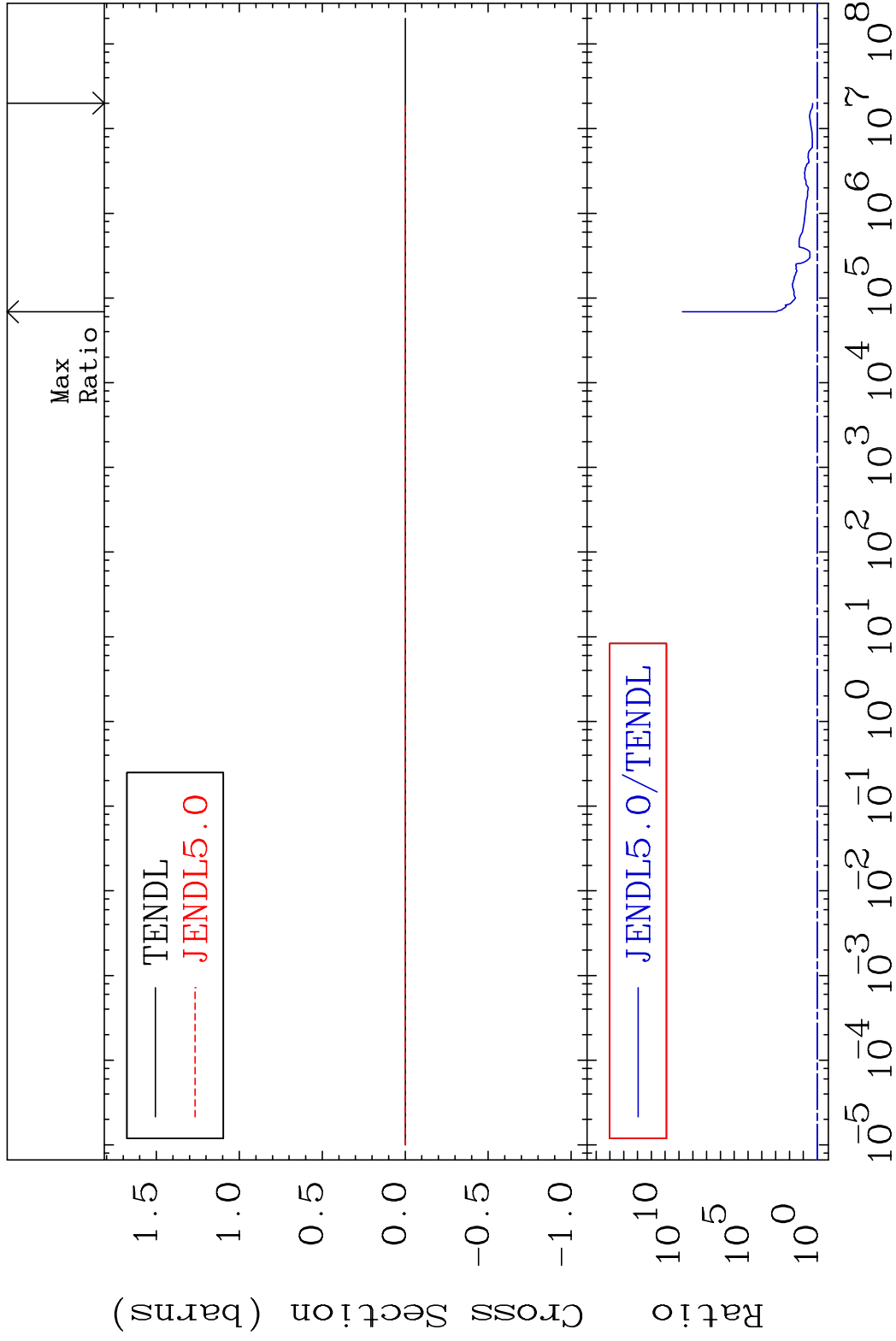
MAT 6334 Kerma non-elastic (all but mt2) 63-Eu-154
 Cross Section -91.54 To 9999. %



MAT 6334 Kerma inelastic (mt51-91) 63-Eu-154
 Cross Section 113.5 To 9999. %

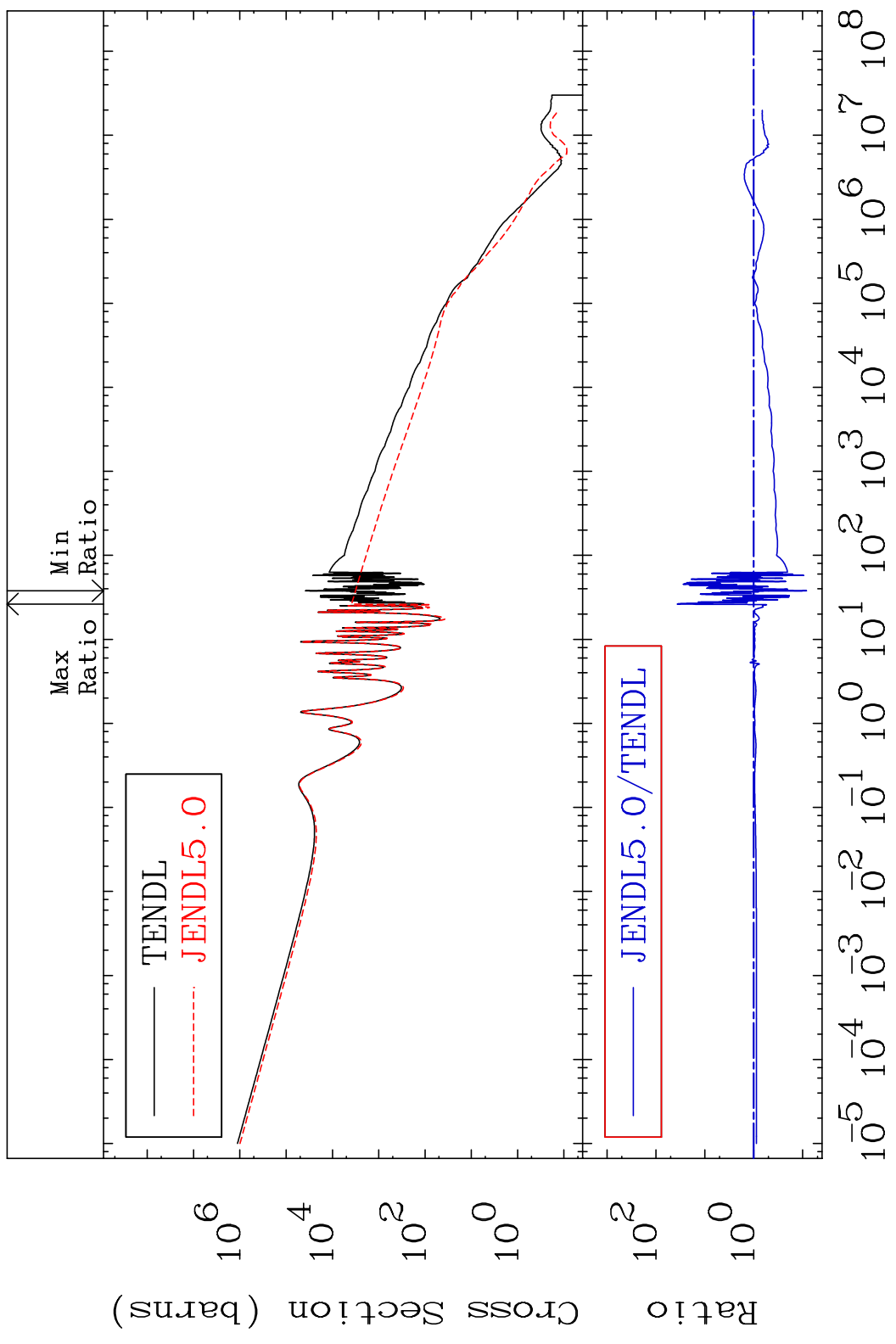


MAT 6334 Kerma fission (mt18 or mt19-20-21-38)63-Eu-154
 Cross Section 113.5 To 9999. %



MAT 6334

Kerma capture (mt102) 63-Eu-154
Cross Section -91.59 To 3581. %



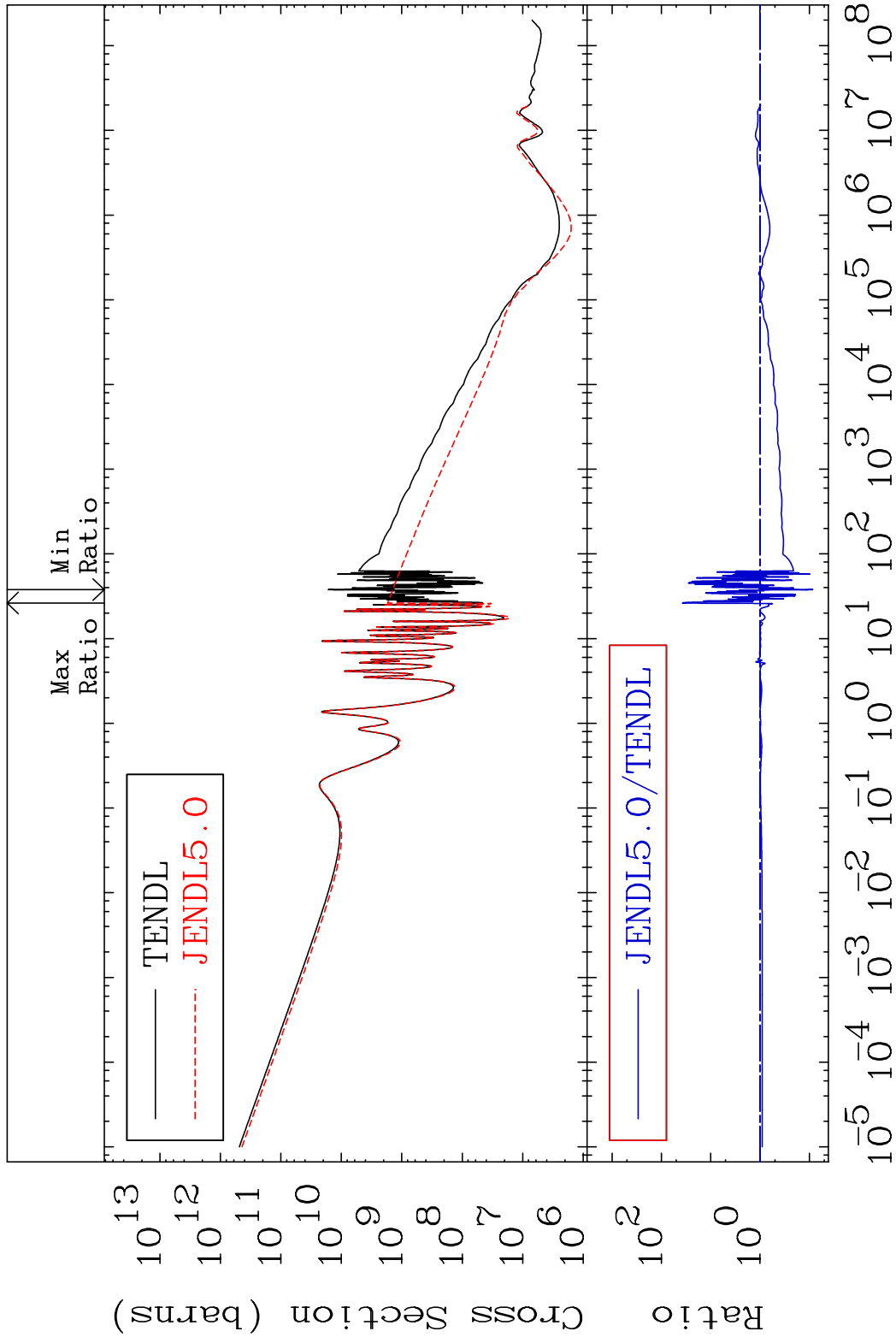
59

Incident Energy (eV)

63-Eu-154

MAT 6334

Total photon (eV-barns) 63-Eu-154
Cross Section -91.40 To 3667. %

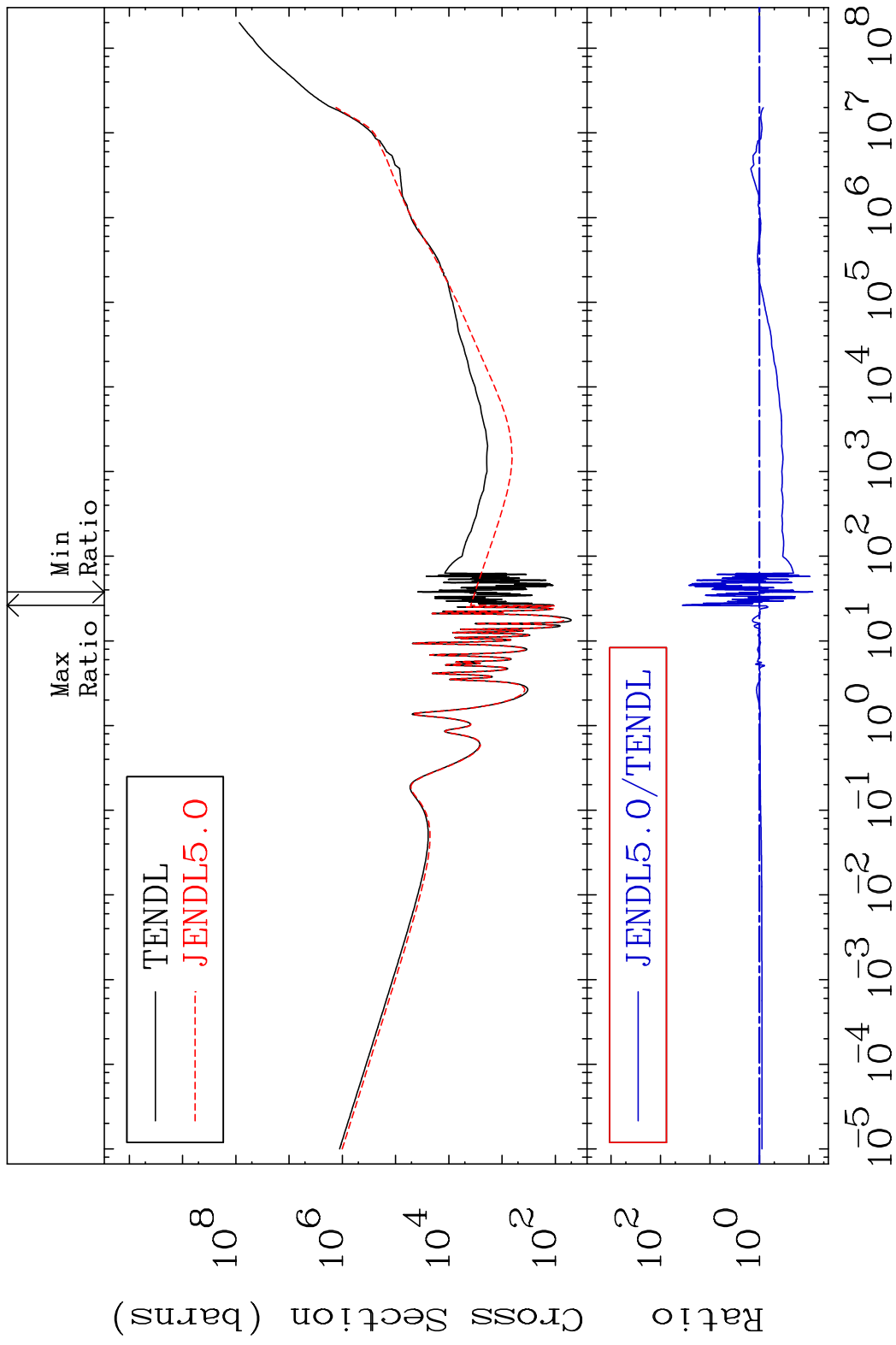


60

Incident Energy (eV)

63-Eu-154

MAT 6334 Total kinematic kerma (high limit) 63-Eu-154
 Cross Section -91.55 To 3508. %

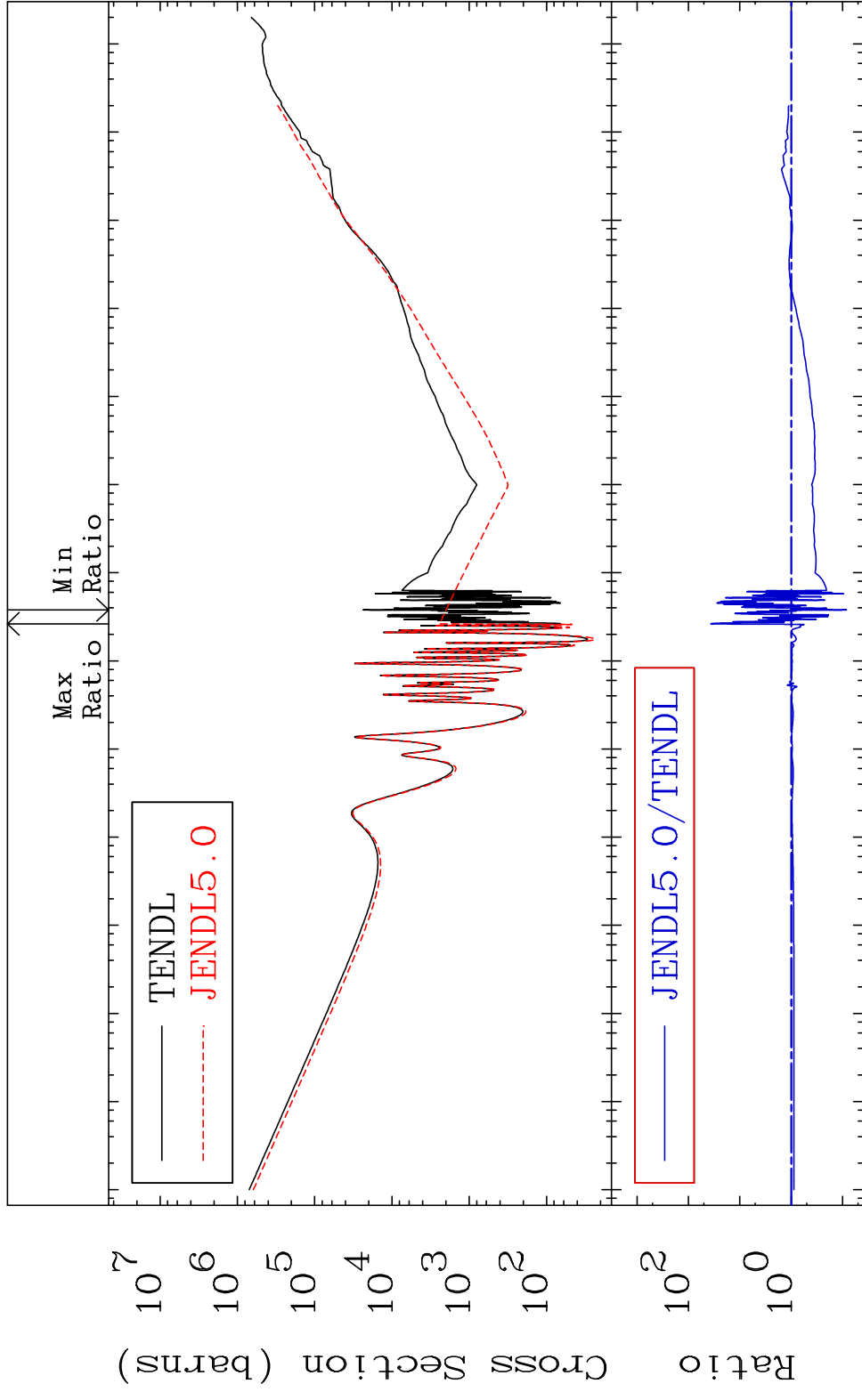


MAT 6334

Dpa total (eV-barns)

63-Eu-154

Cross Section -91.57 To 3589. %

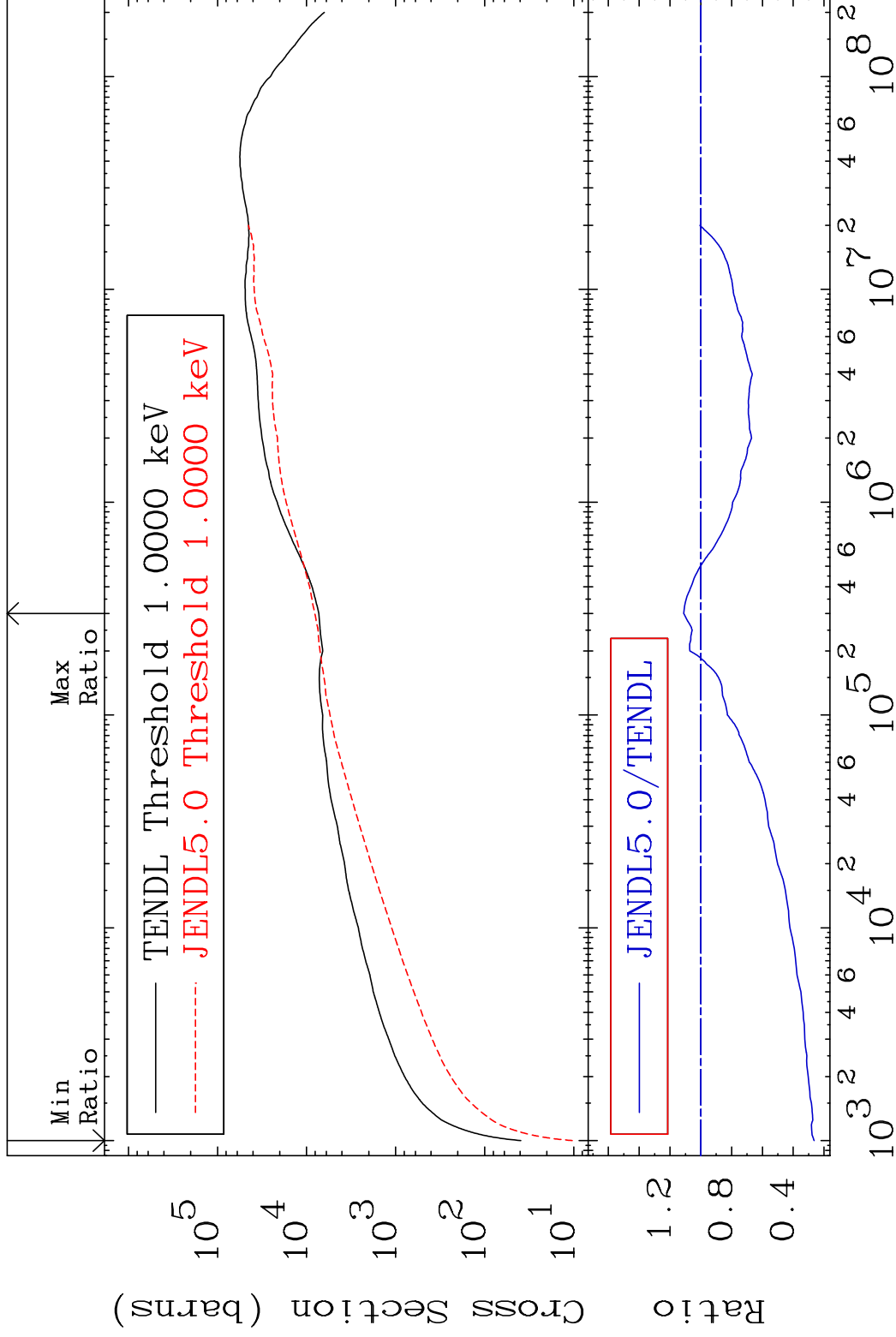


MAT 6334

Dpa elastic (mt2)

63-Eu-154

Cross Section -73.55 To 11.14 %

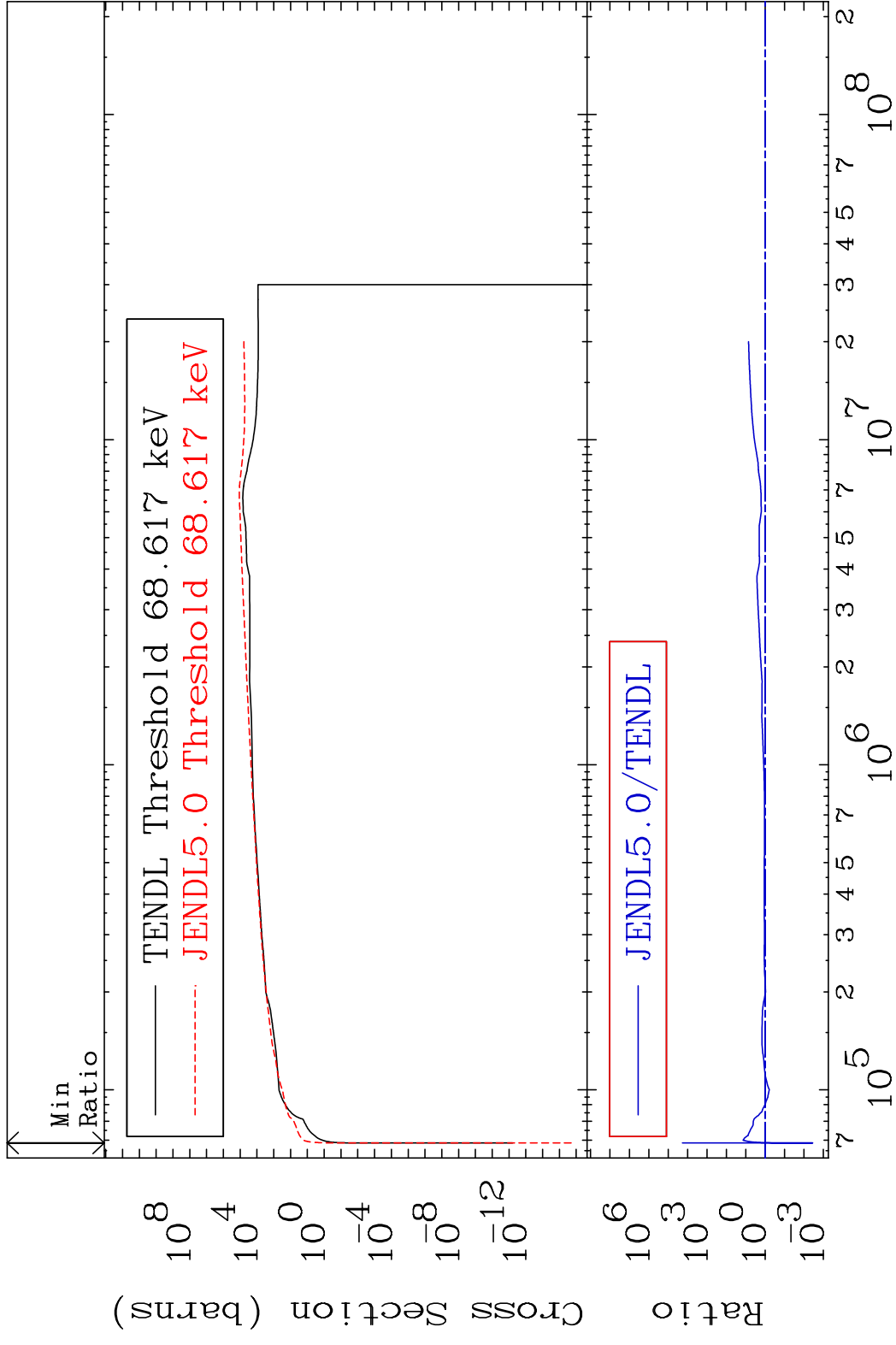


63

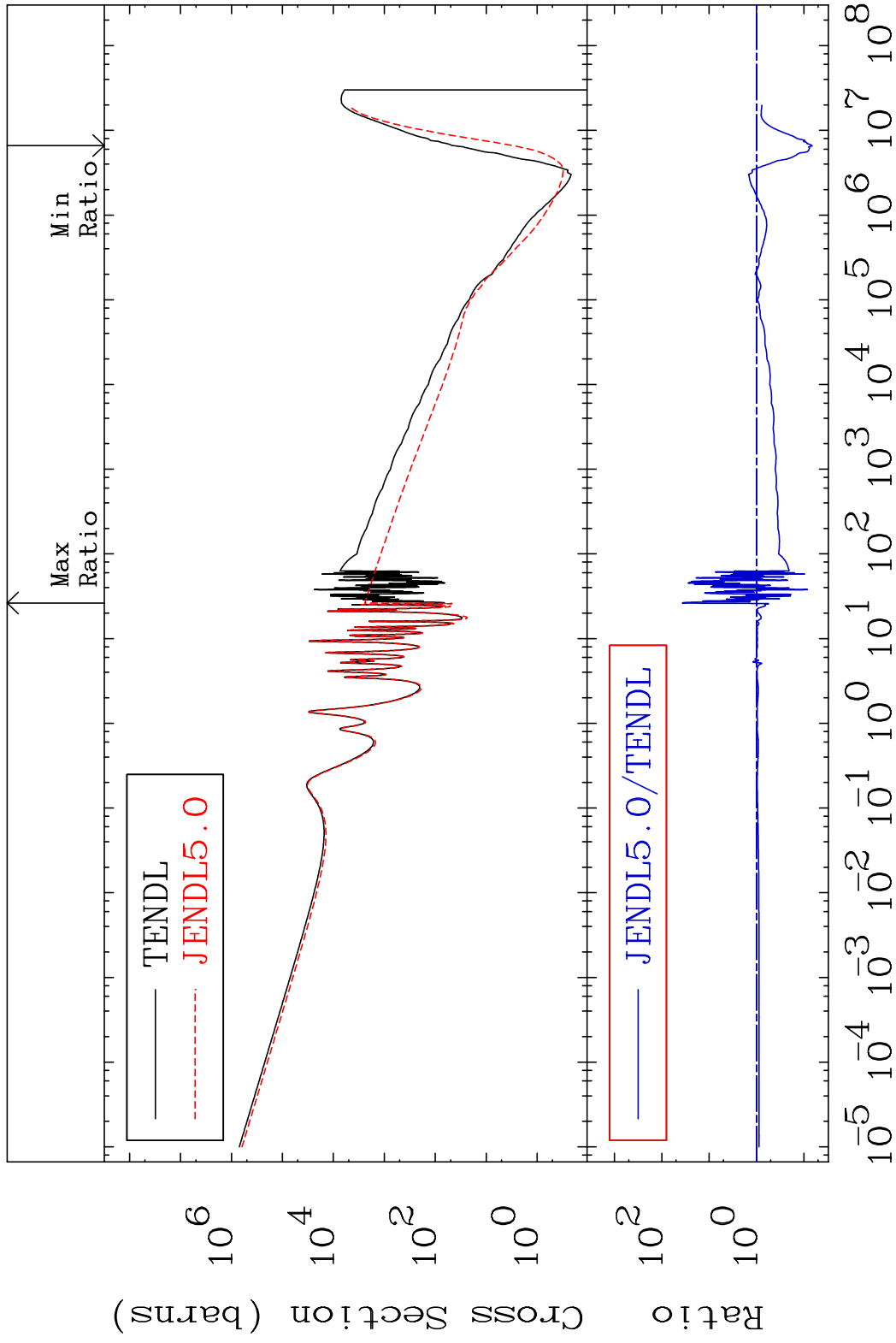
Incident Energy (eV)

63-Eu-154

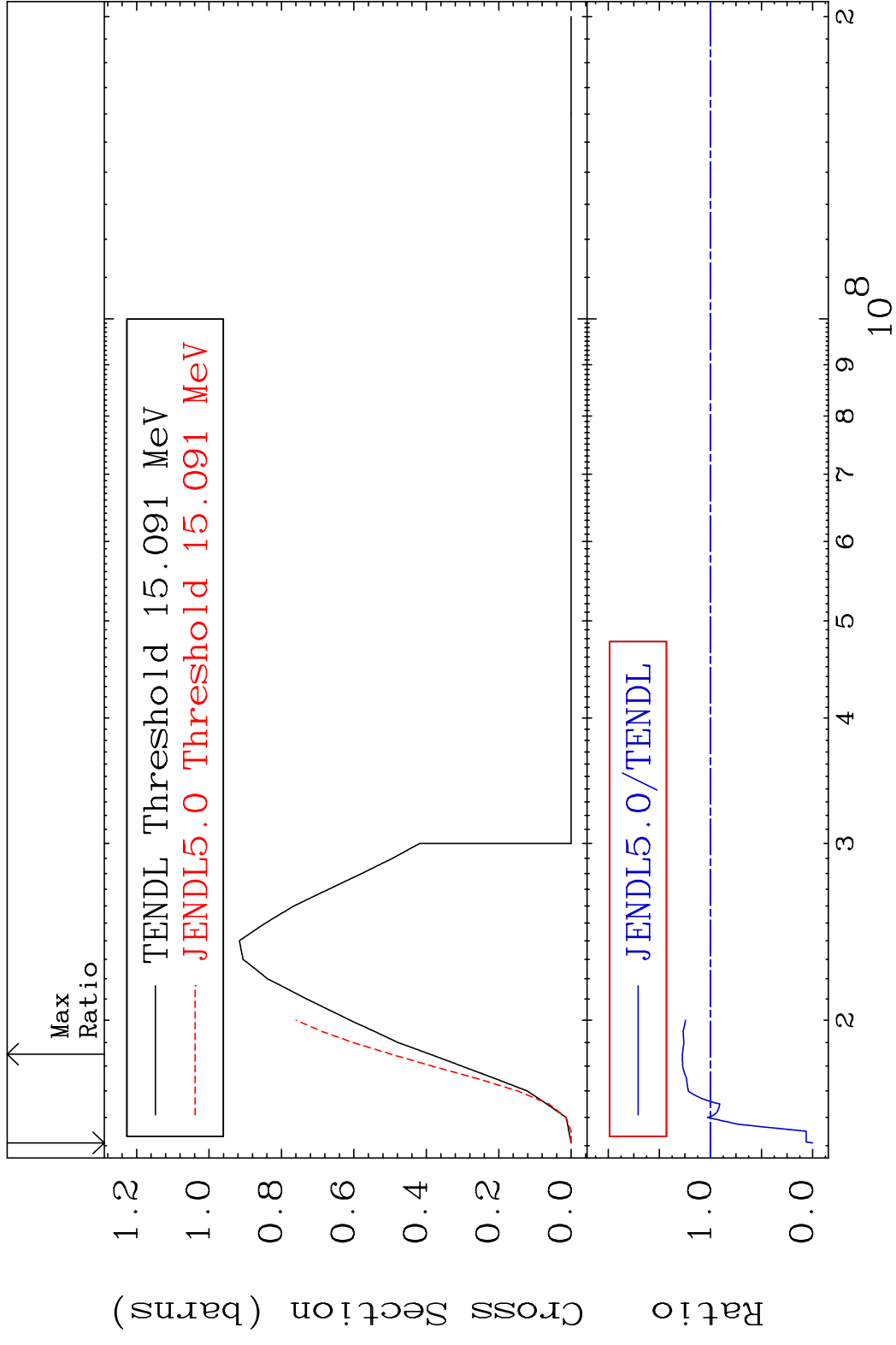
MAT 6334 Dpa inelastic (mt51-91) 63-Eu-154
 Cross Section -99.64 To 9999. %



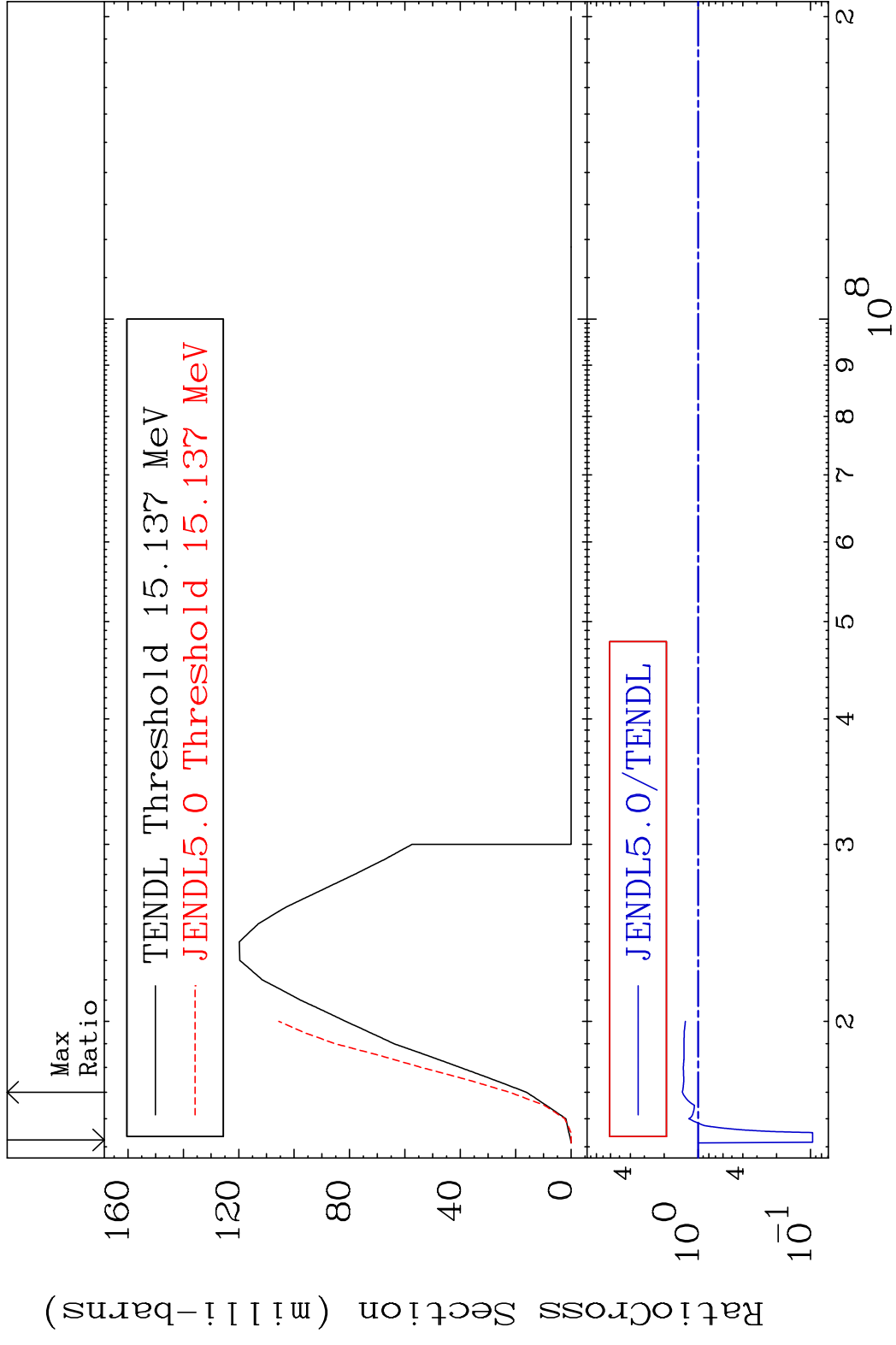
MAT 6334 Dpa disappearance (mt102 -120) 63-Eu-154
 Cross Section -93.46 To 3589. %



MAT 6334 (n,3n):63-Eu-152g 63-Eu-154
 Radionuclide Production Cross Section Ratio 27.51 %



MAT 6334 (n, 3n):63-Eu-152m1 63-Eu-154
 Radionuclide Production Cross Section 37.85 %



MAT 6334 (n,3n):63-Eu-152m16 63-Eu-154
 Radionuclide Production Cross Section 53.03 %

