

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

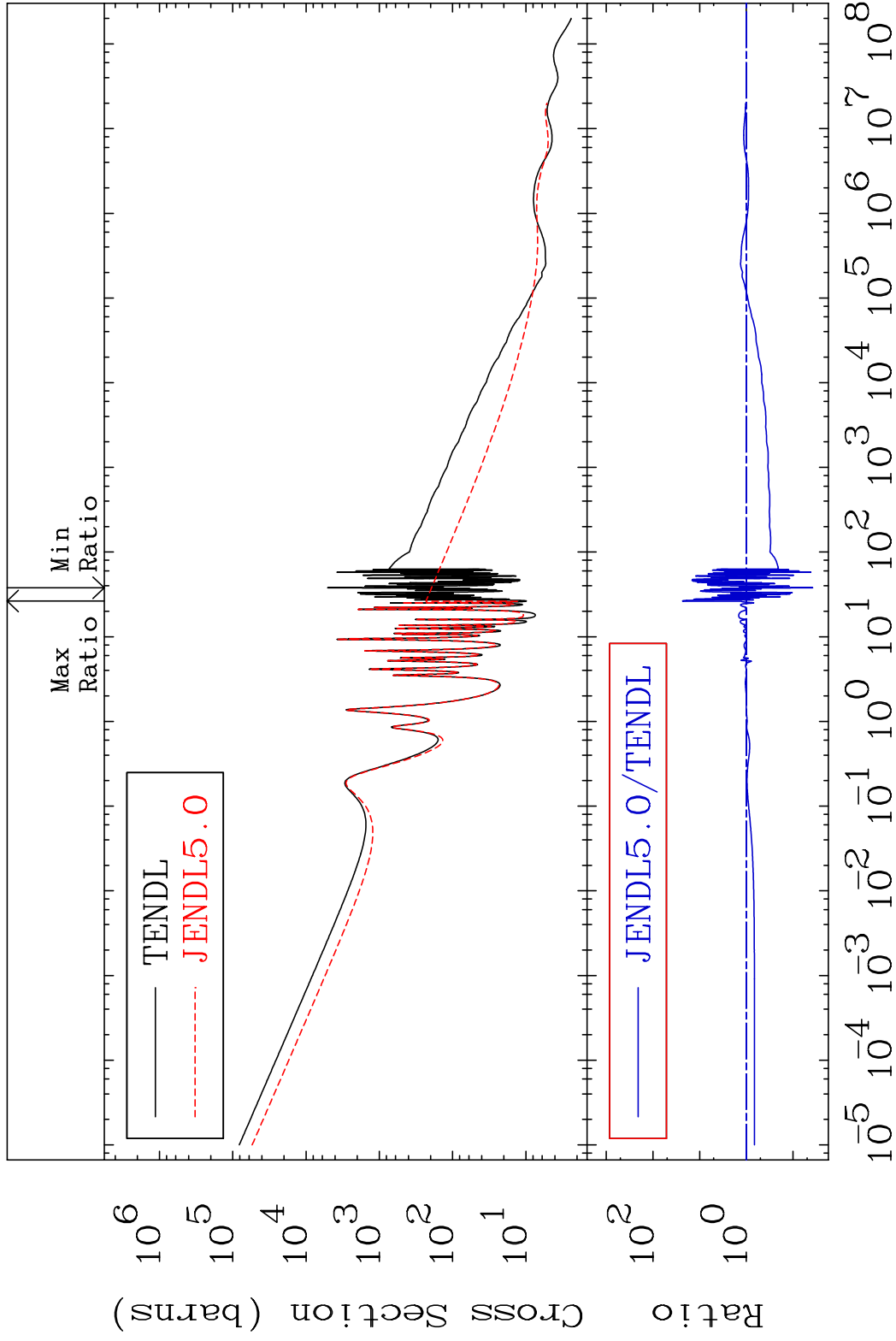
Press Mouse Button to Start

MAT 6334

Total

63-Eu-154

Cross Section -96.19 To 2245. %



1

Incident Energy (eV)

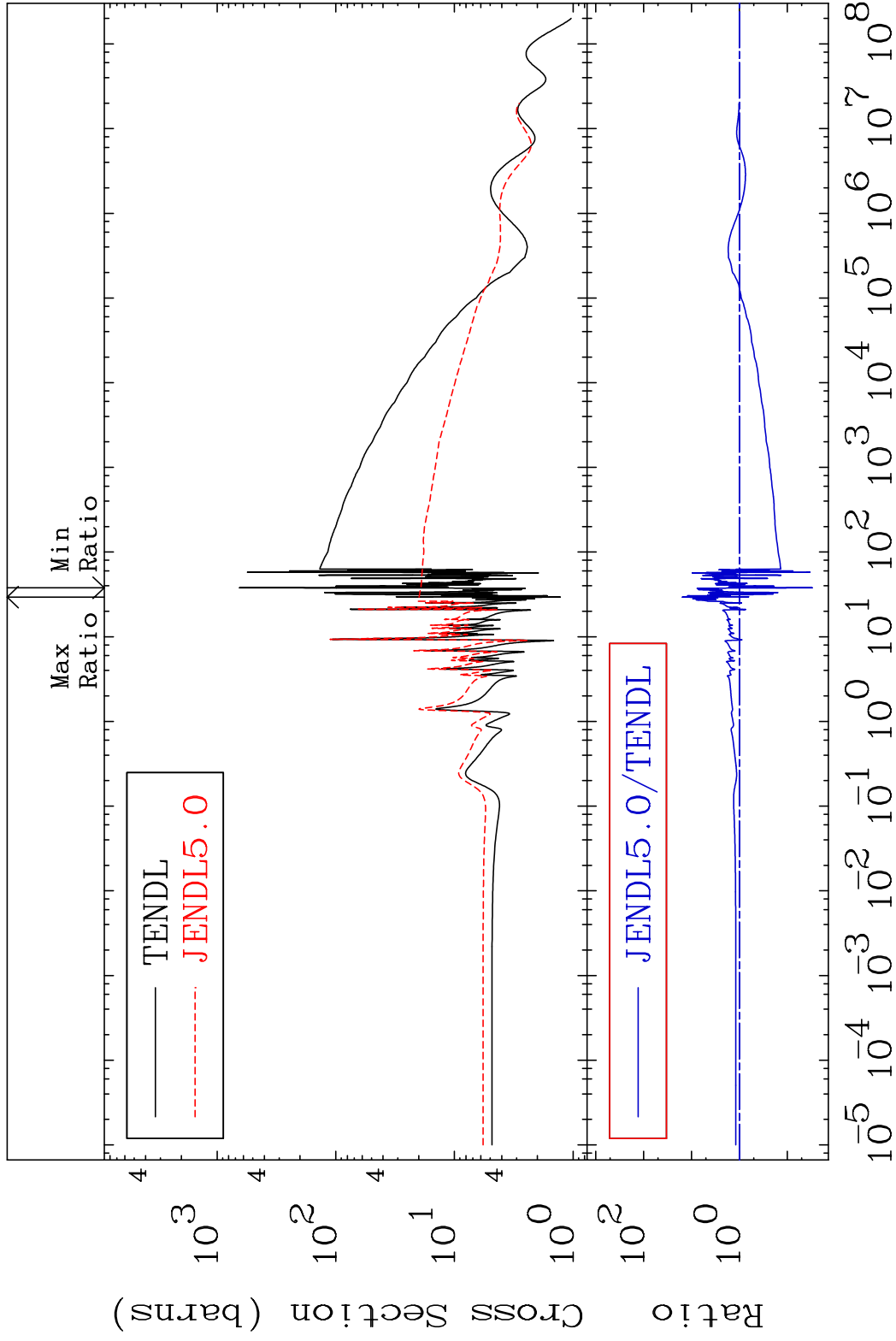
63-Eu-154

MAT 6334

Elastic

63-Eu-154

Cross Section -97.04 To 1451. %



2

Incident Energy (eV)

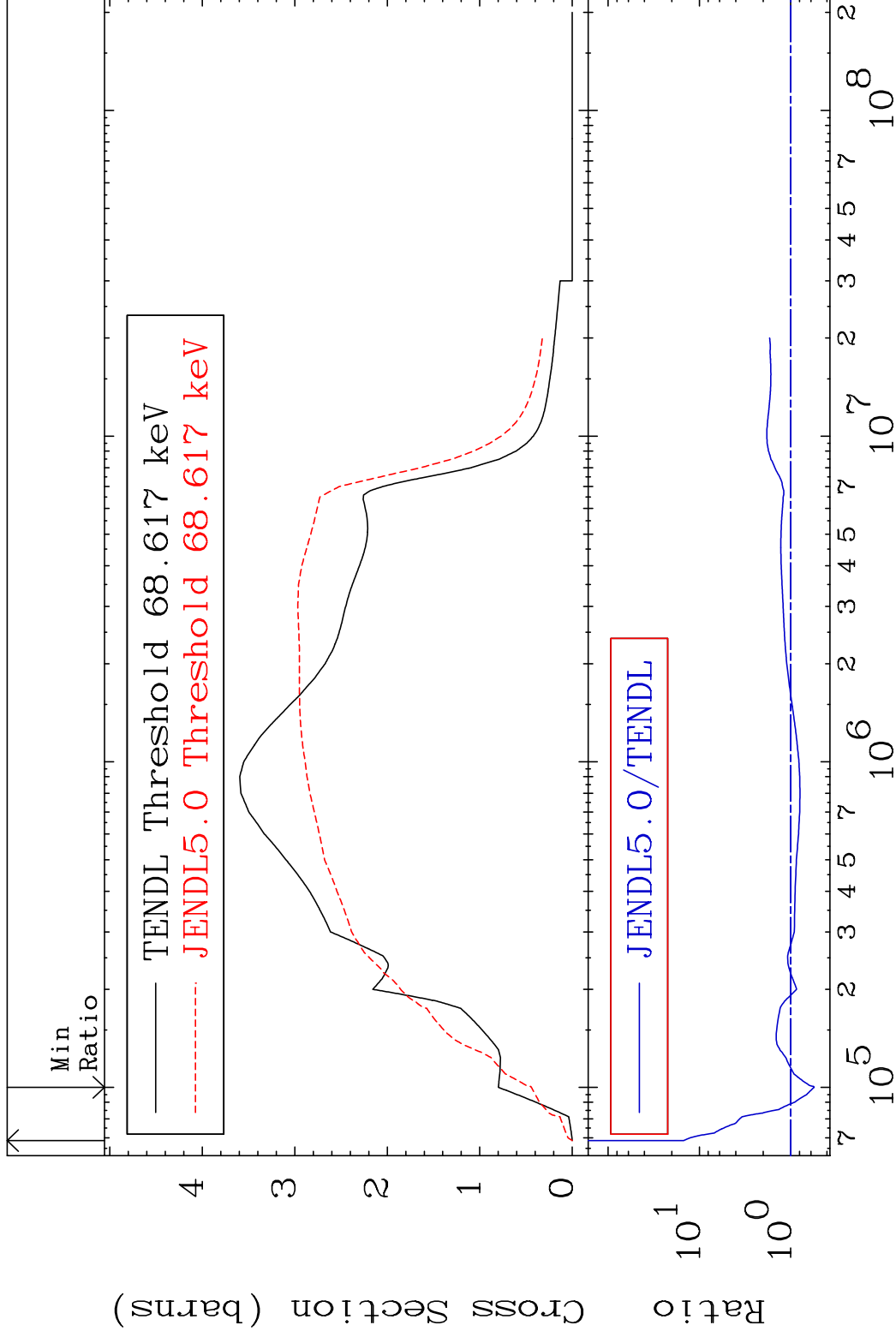
63-Eu-154

MAT 6334

Inelastic

63-Eu-154

Cross Section -44.56 To 1386. %



3

Incident Energy (eV)

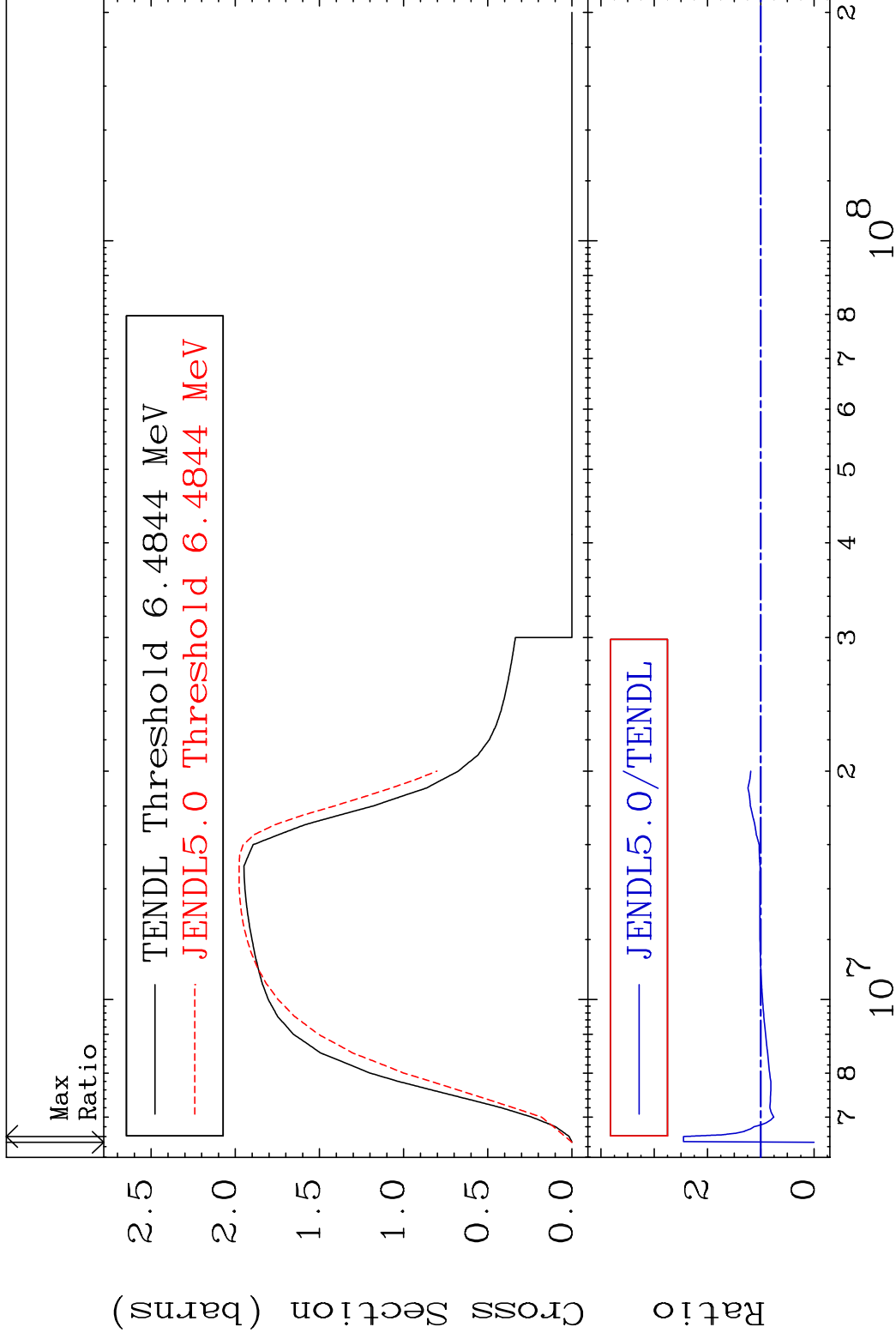
63-Eu-154

MAT 6334

(n,2n)

63-Eu-154

Cross Section -100.0 To 145.2 %



4

Incident Energy (eV)

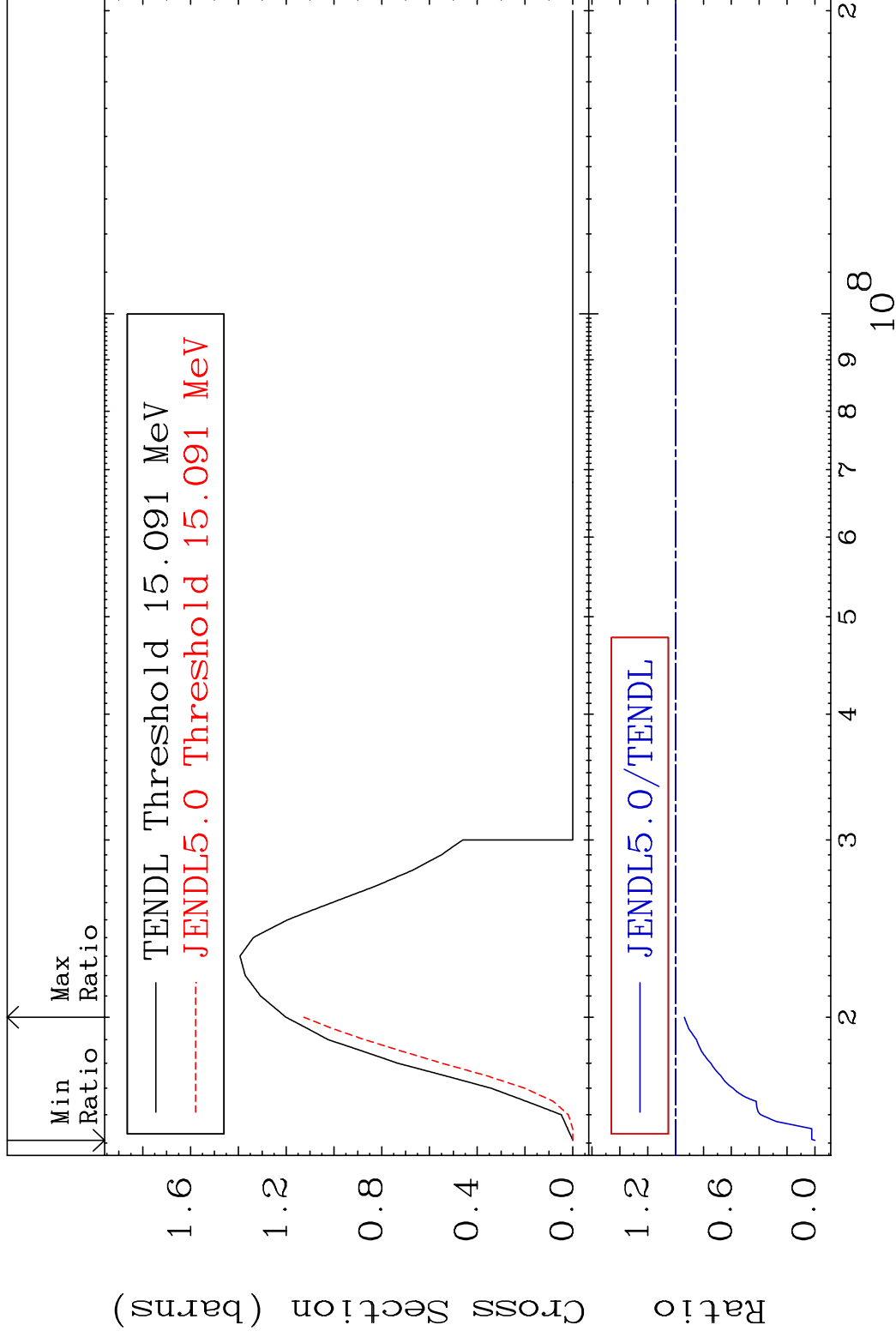
63-Eu-154

MAT 6334

(n,3n)

63-Eu-154

Cross Section -100.0 To -6.243%

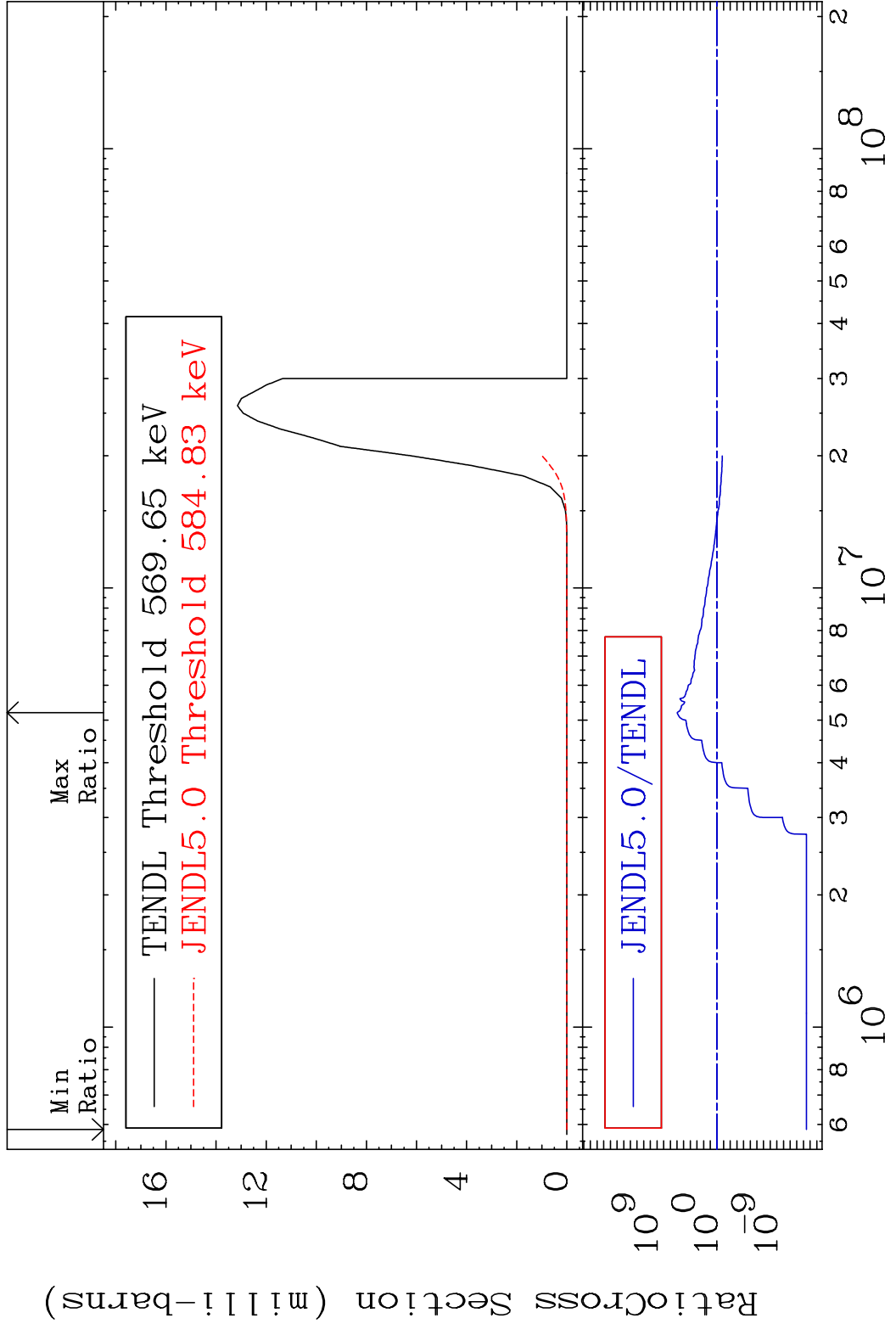


5

Incident Energy (eV)

63-Eu-154

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

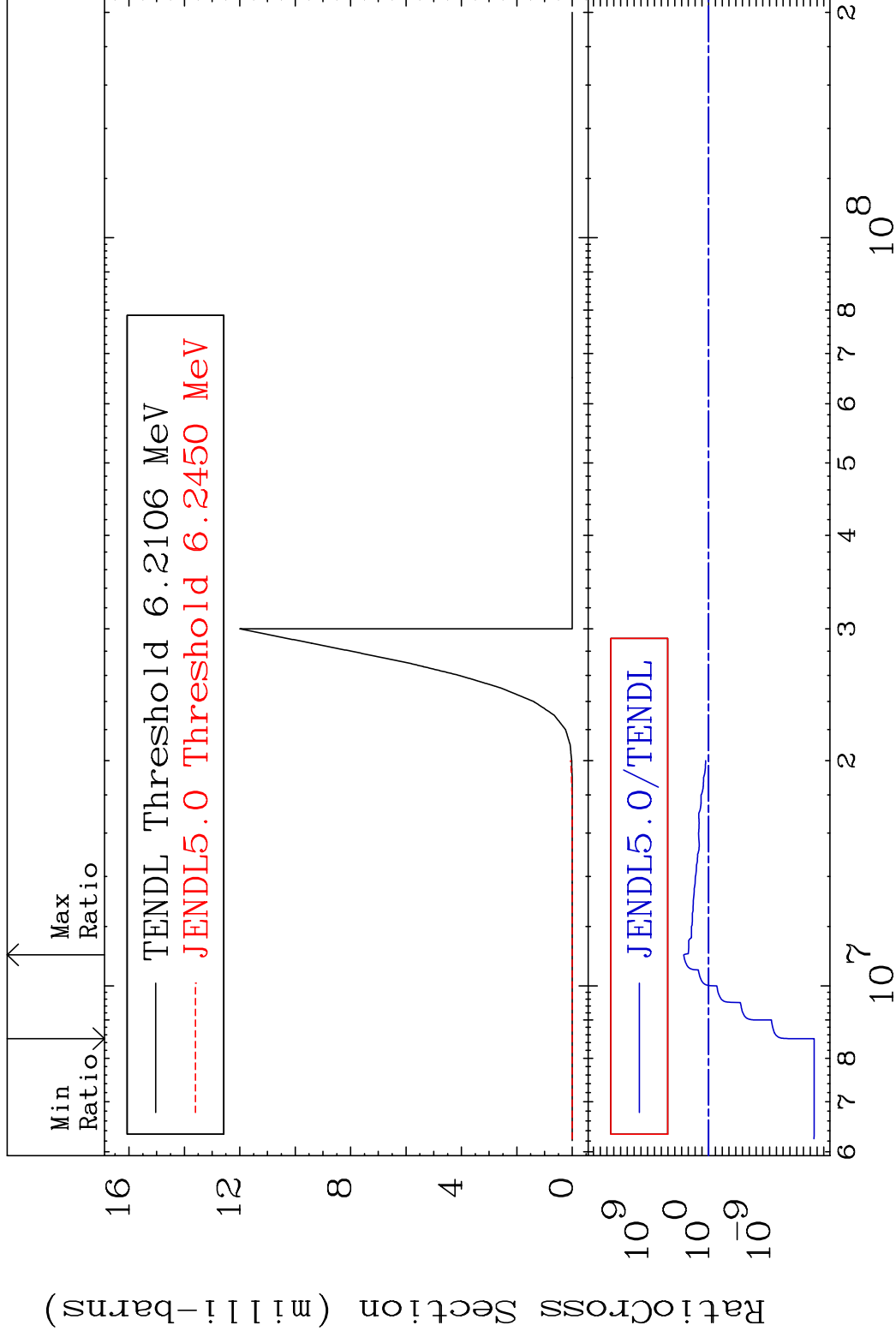


MAT 6334

(n,2n) α

63-Eu-154

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

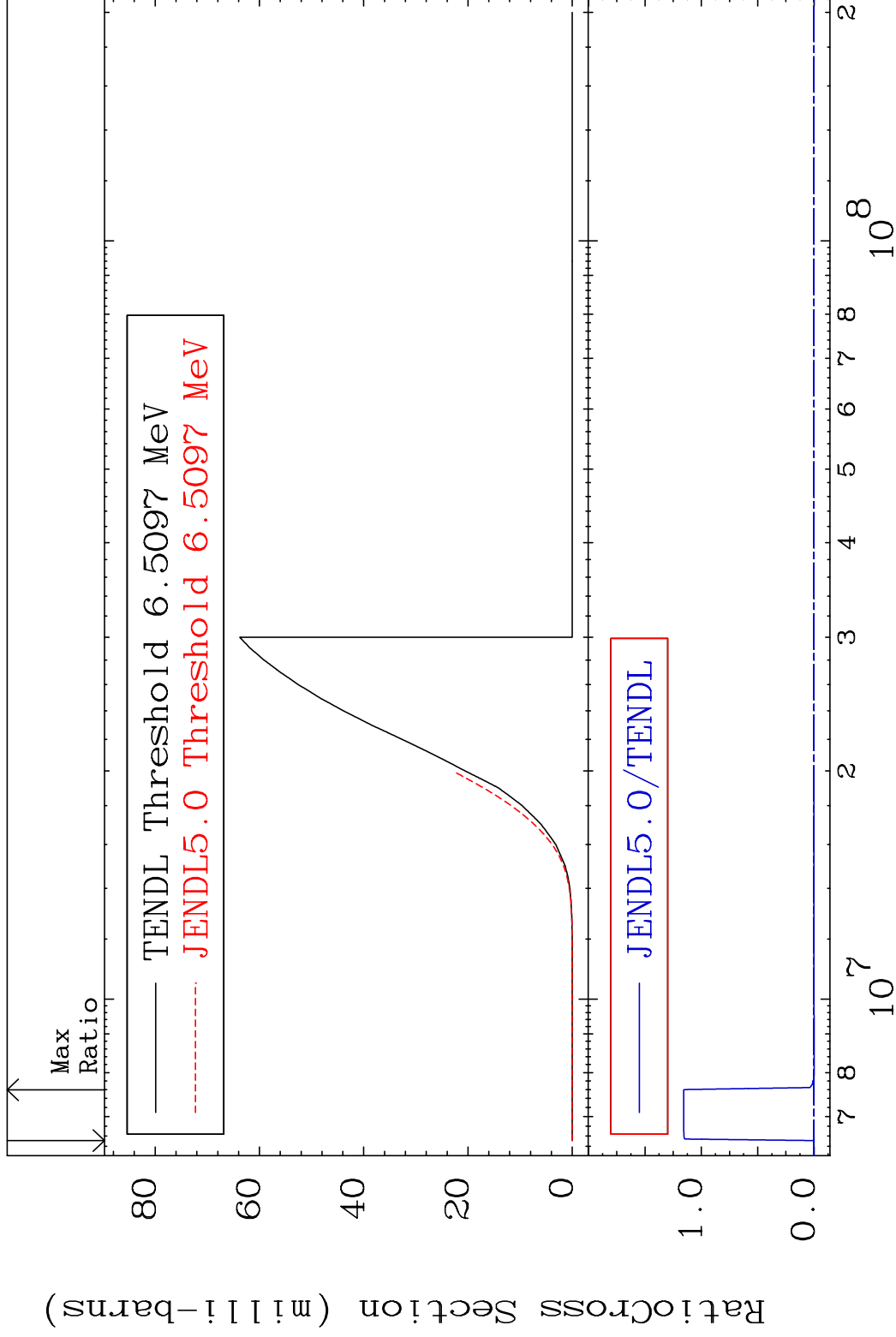
63-Eu-154

MAT 6334

(n, n') p

63-Eu-154

Cross Section -100.0 To 9999. %

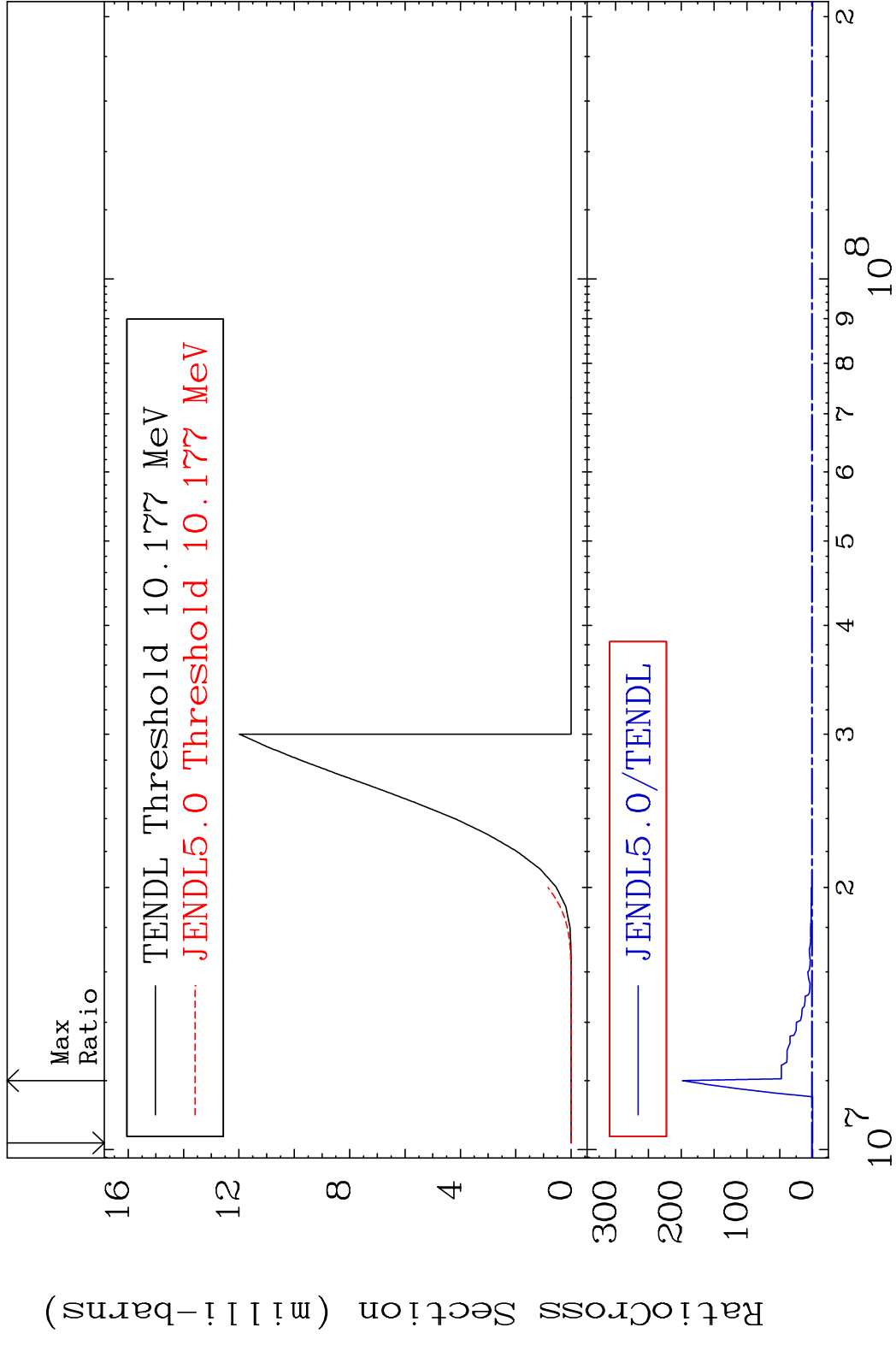


8

Incident Energy (eV)

63-Eu-154

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



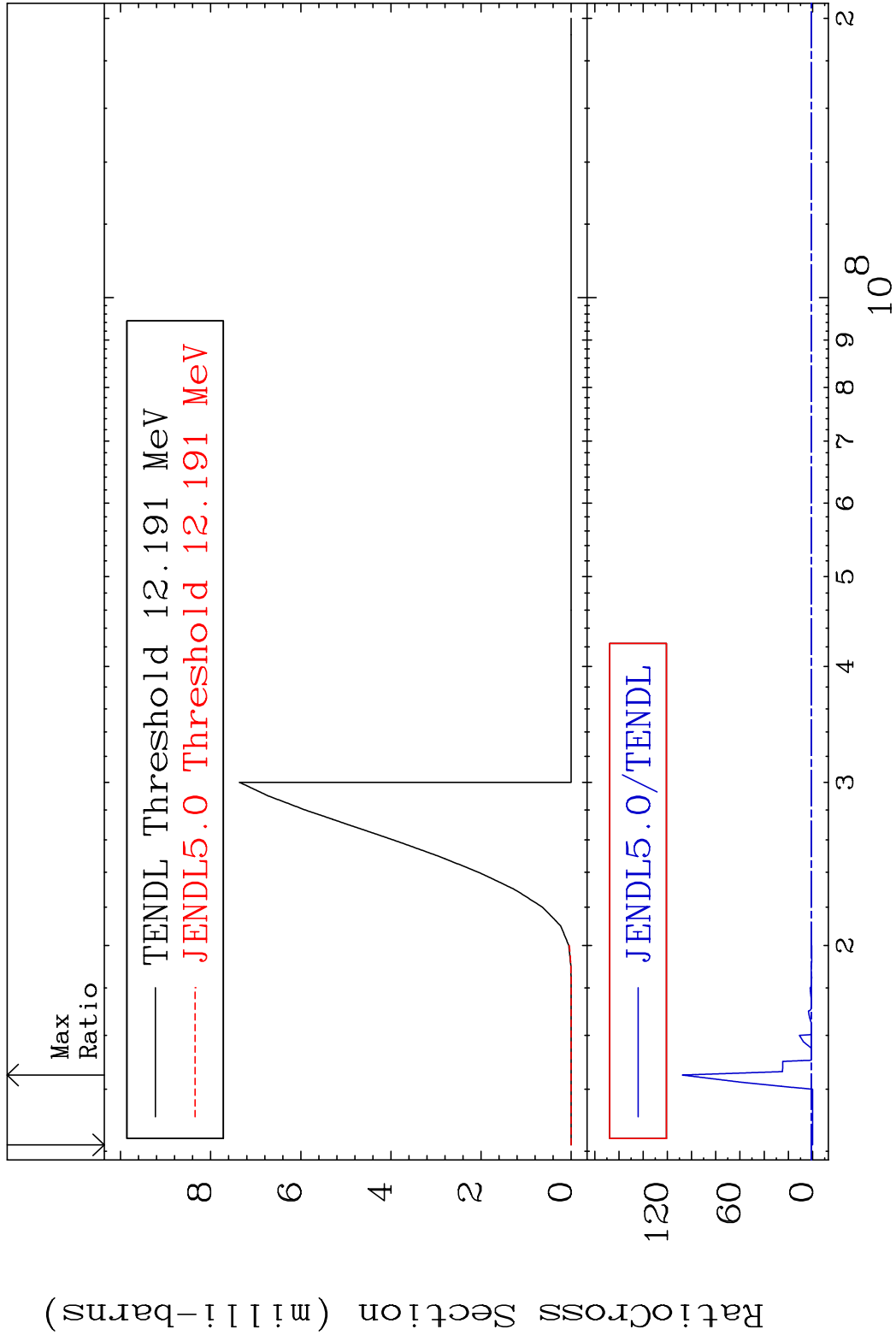
9 9 Incident Energy (eV) 63-Eu-154

MAT 6334

(n, n') t

63-Eu-154

Cross Section -100.0 To 9999. %

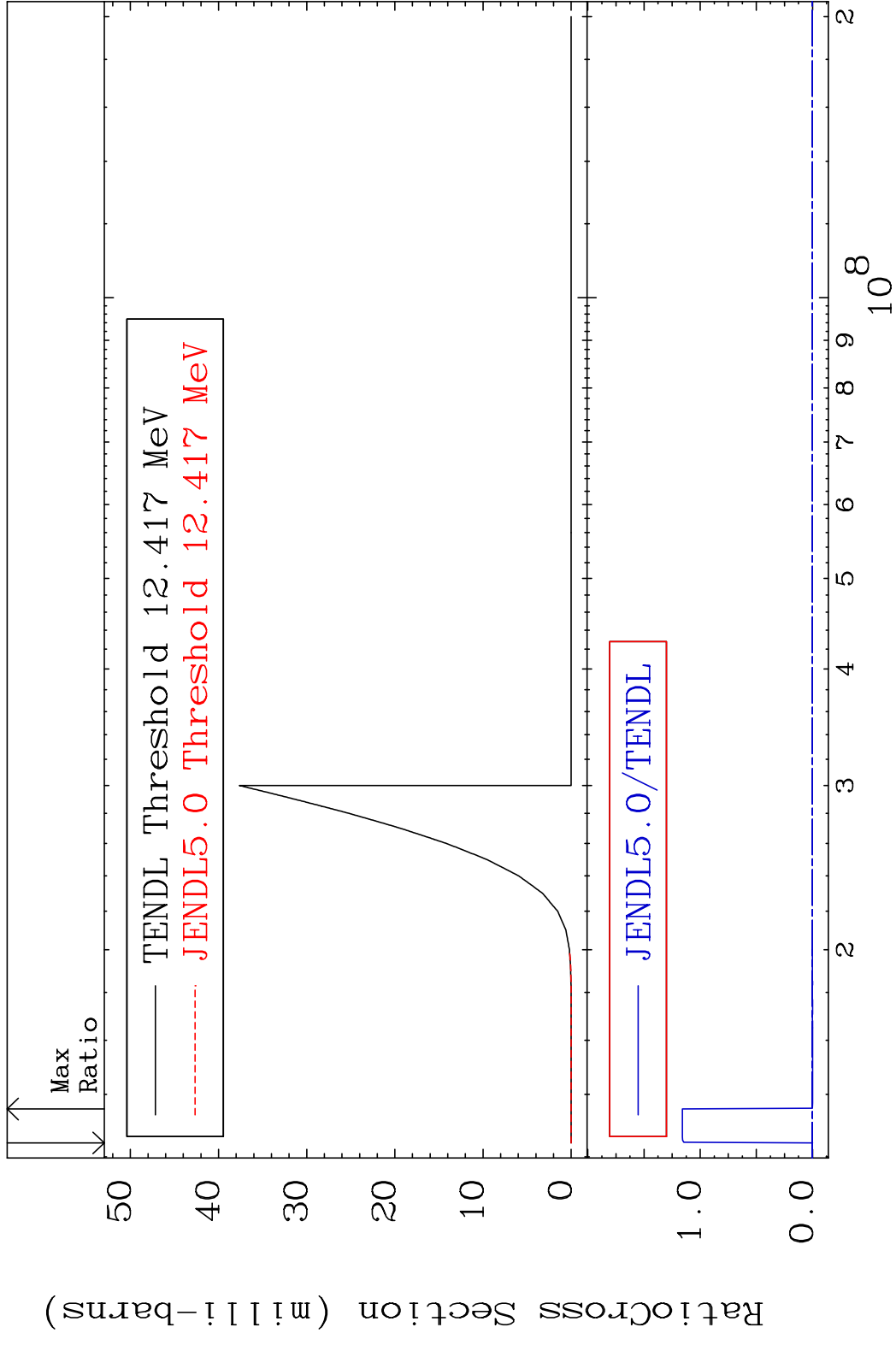


10

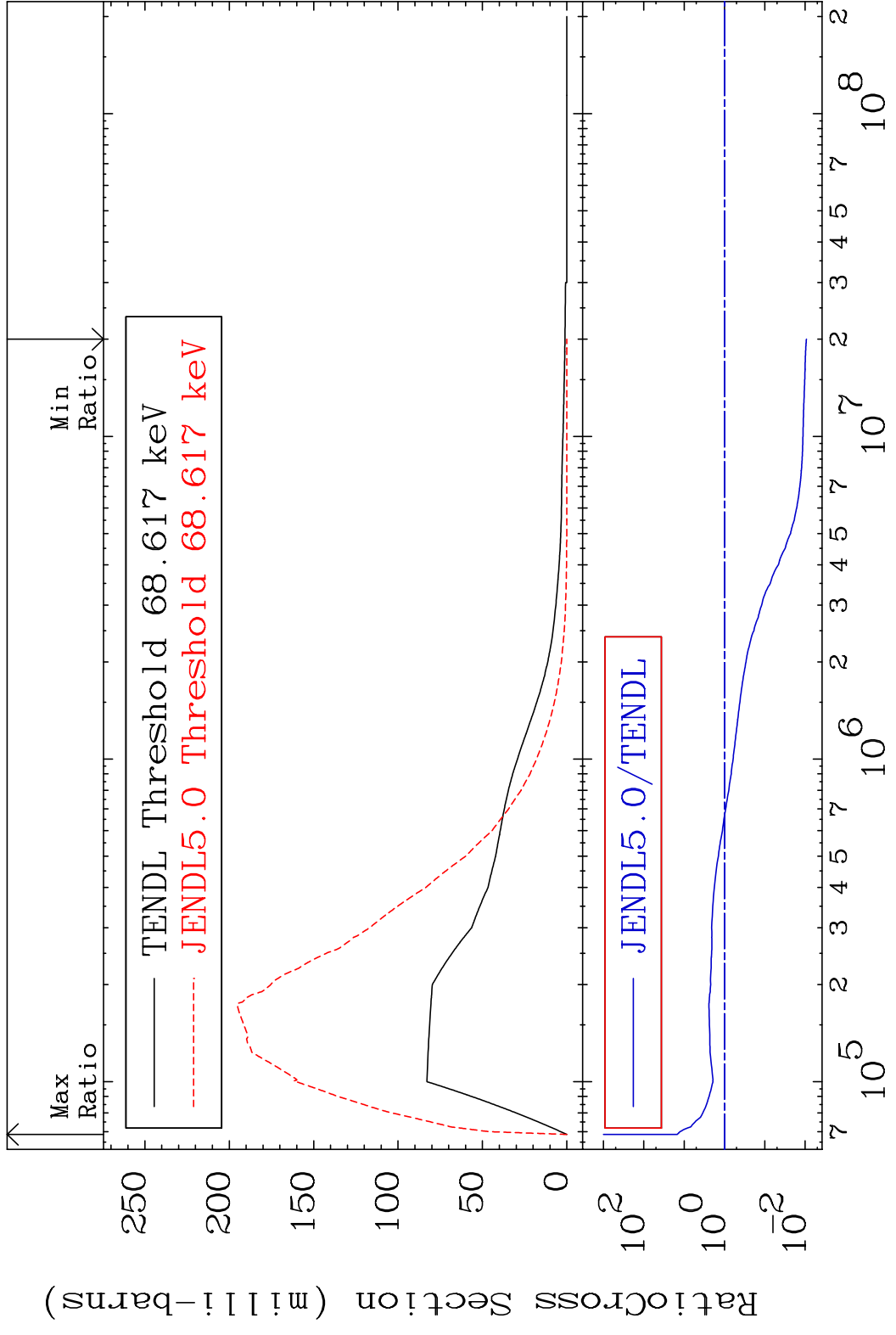
Incident Energy (eV)

63-Eu-154

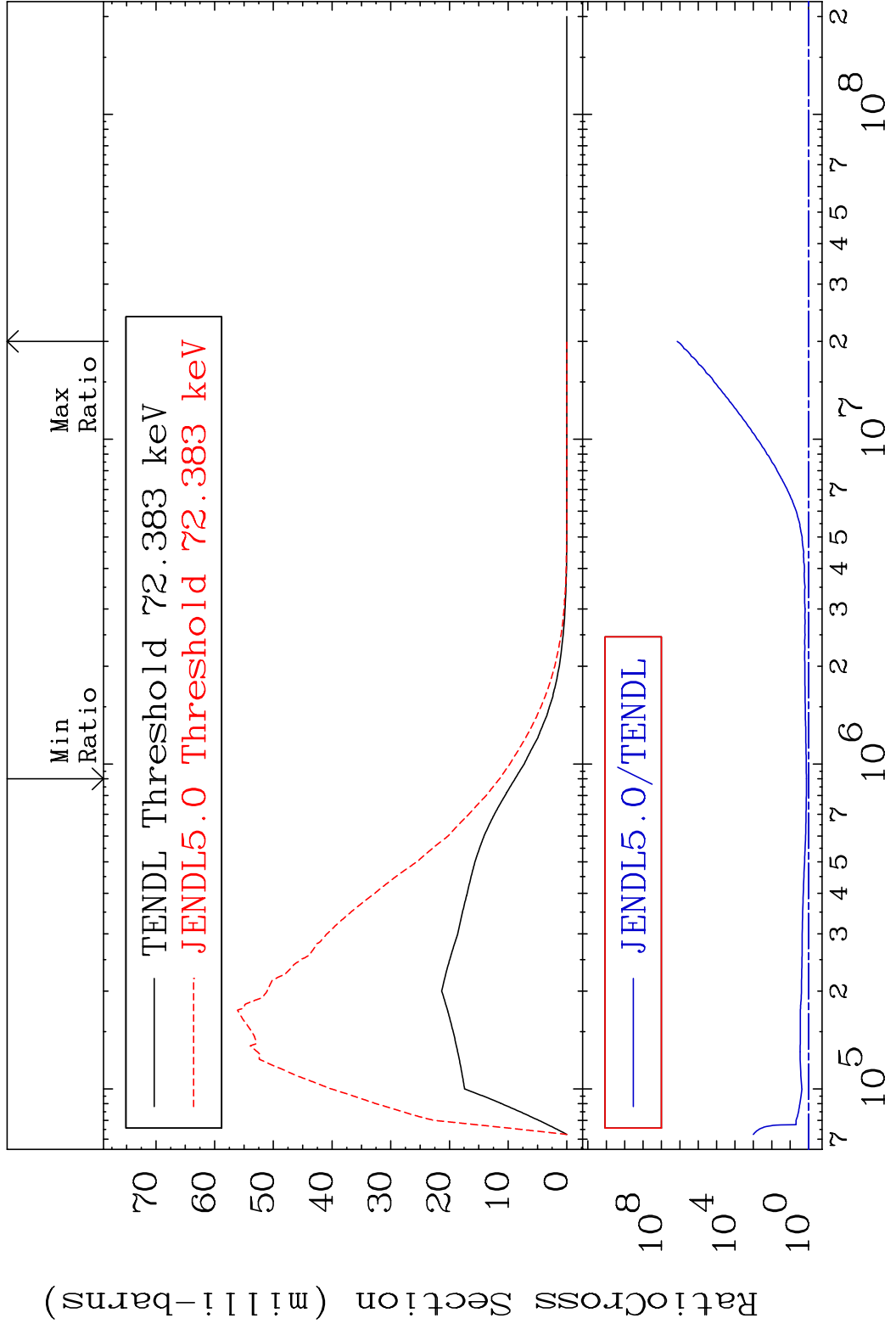
MAT 6334 (n,2n) p 63-Eu-154
 Cross Section -100.0 To 9999. %



MAT 6334 MT= 51 (n,n') Level 63-Eu-154
 Cross Section -99.07 To 1386. %

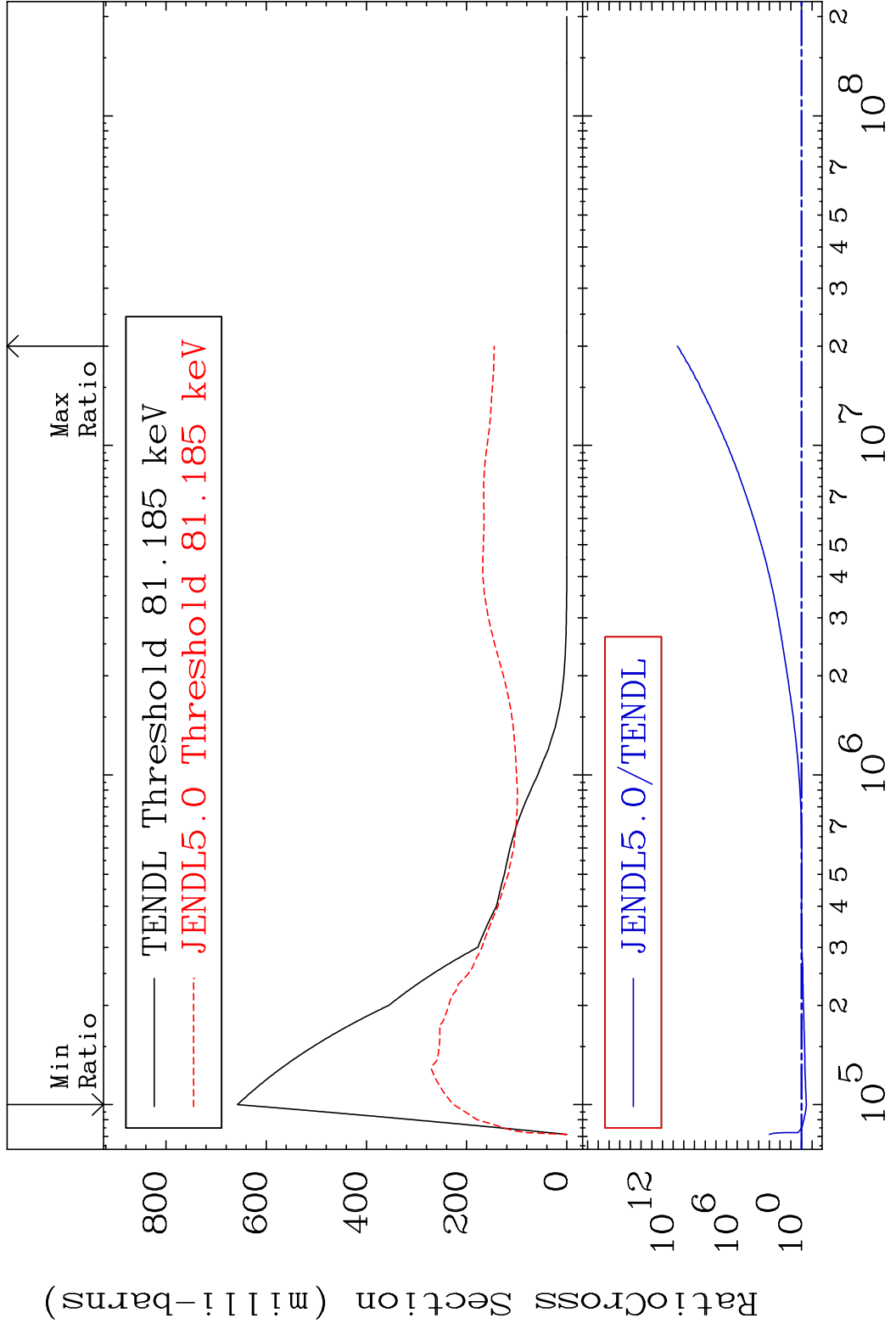


MAT 6334 MT= 52 (n,n') Level 63-Eu-154
 Cross Section 29.96 To 9999. %

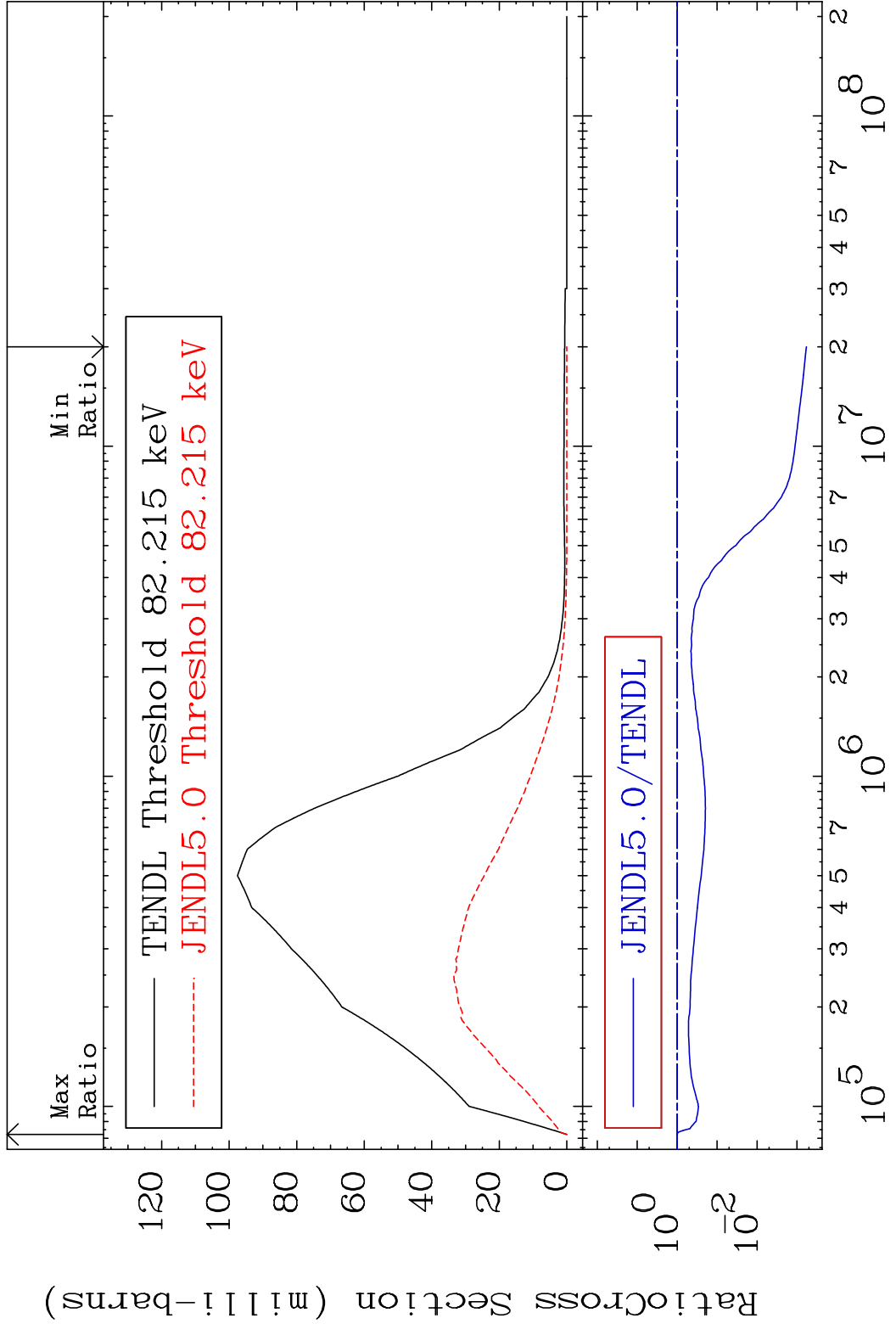


13 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 53 (n,n') Level 63-Eu-154
 Cross Section -65.60 To 9999. %

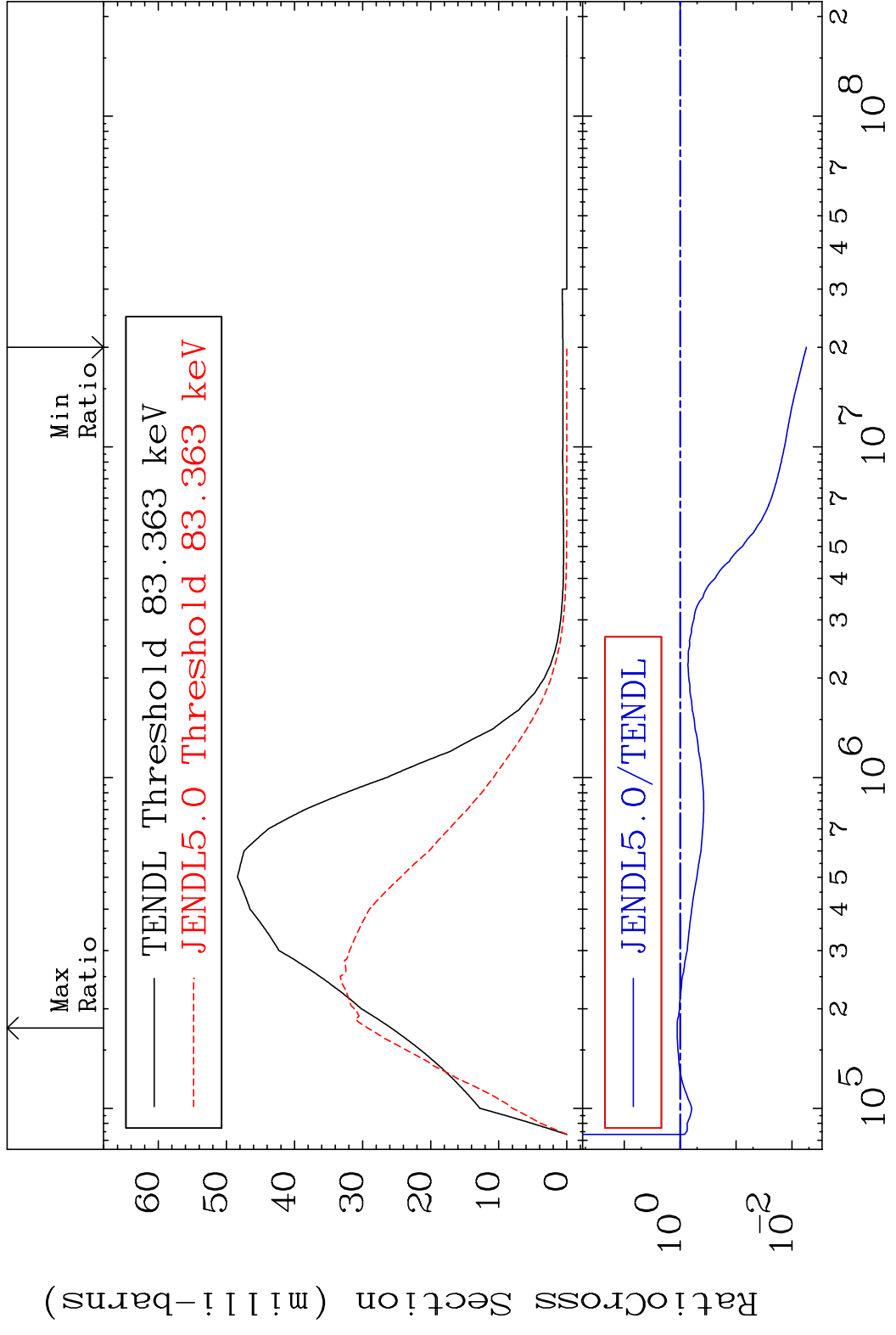


MAT 6334 MT= 54 (n,n') Level 63-Eu-154
 Cross Section -99.94 To 0.000 %



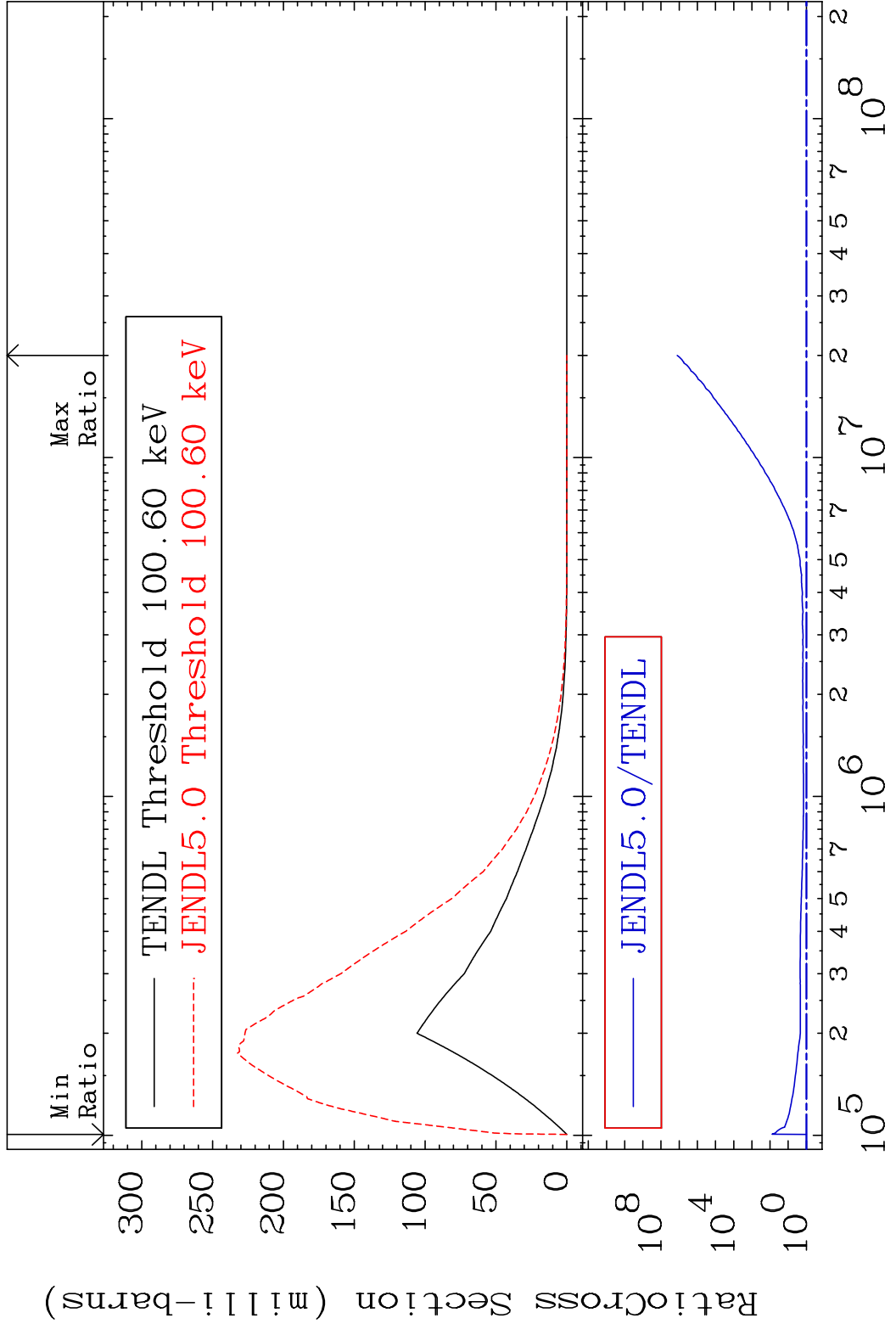
15 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 55 (n,n') Level 63-Eu-154
 Cross Section -99.45 To 13.46 %

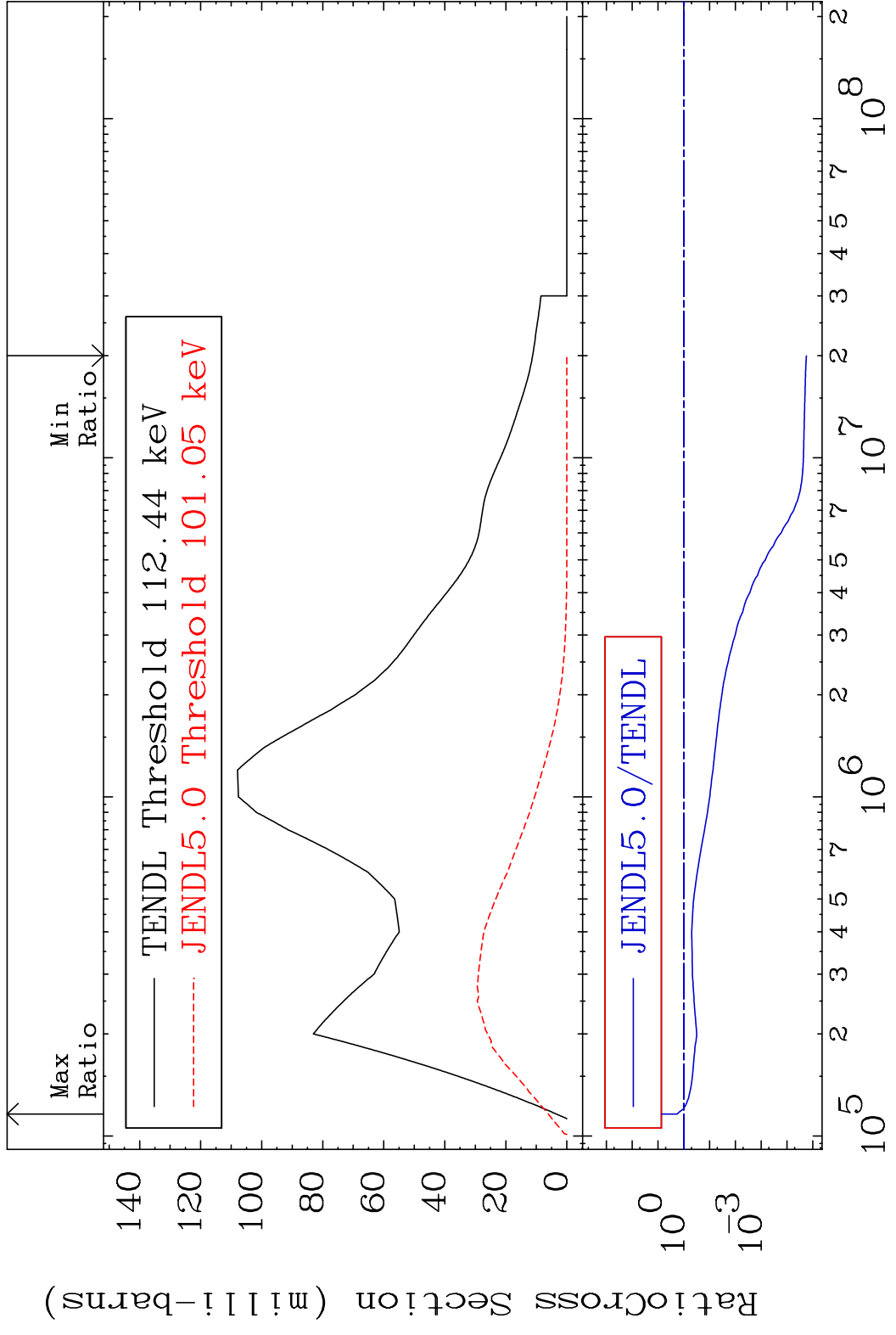


16 Incident Energy (eV) 63-Eu-154

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

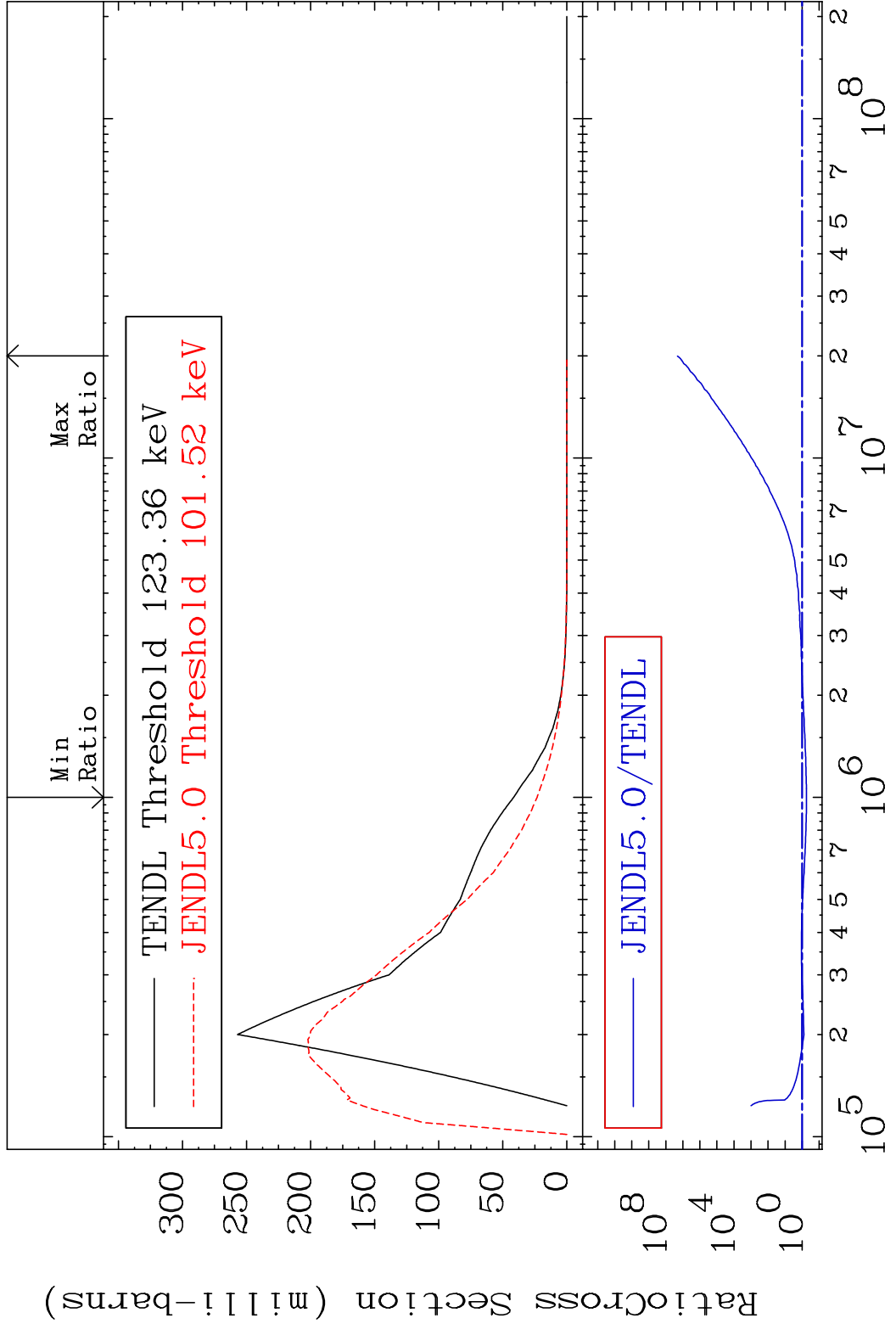


MAT 6334 MT= 57 (n, n') Level 63-Eu-154
 Cross Section -100.0 To 79.53 %



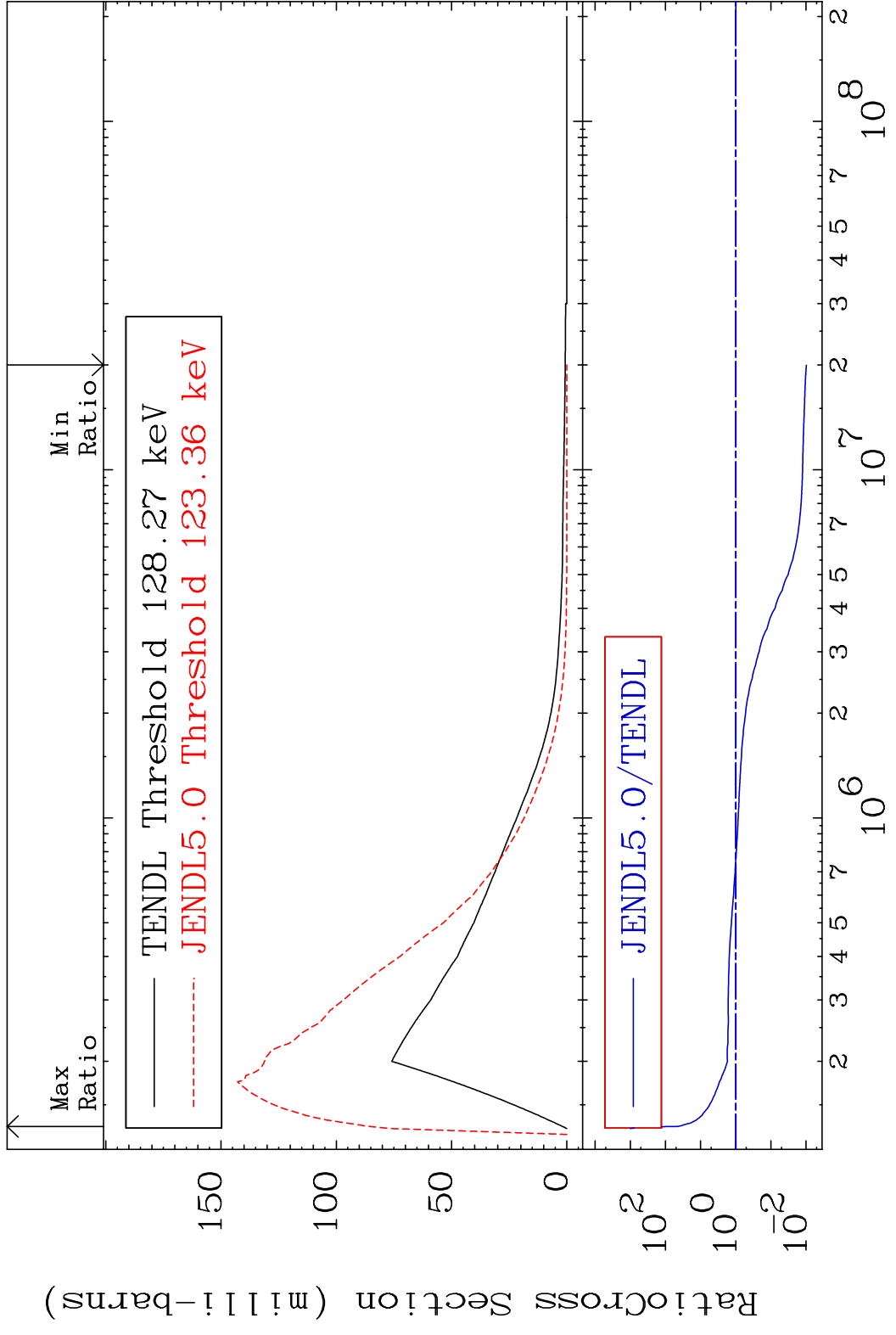
18 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 58 (n,n') Level 63-Eu-154
 Cross Section -43.95 To 9999. %

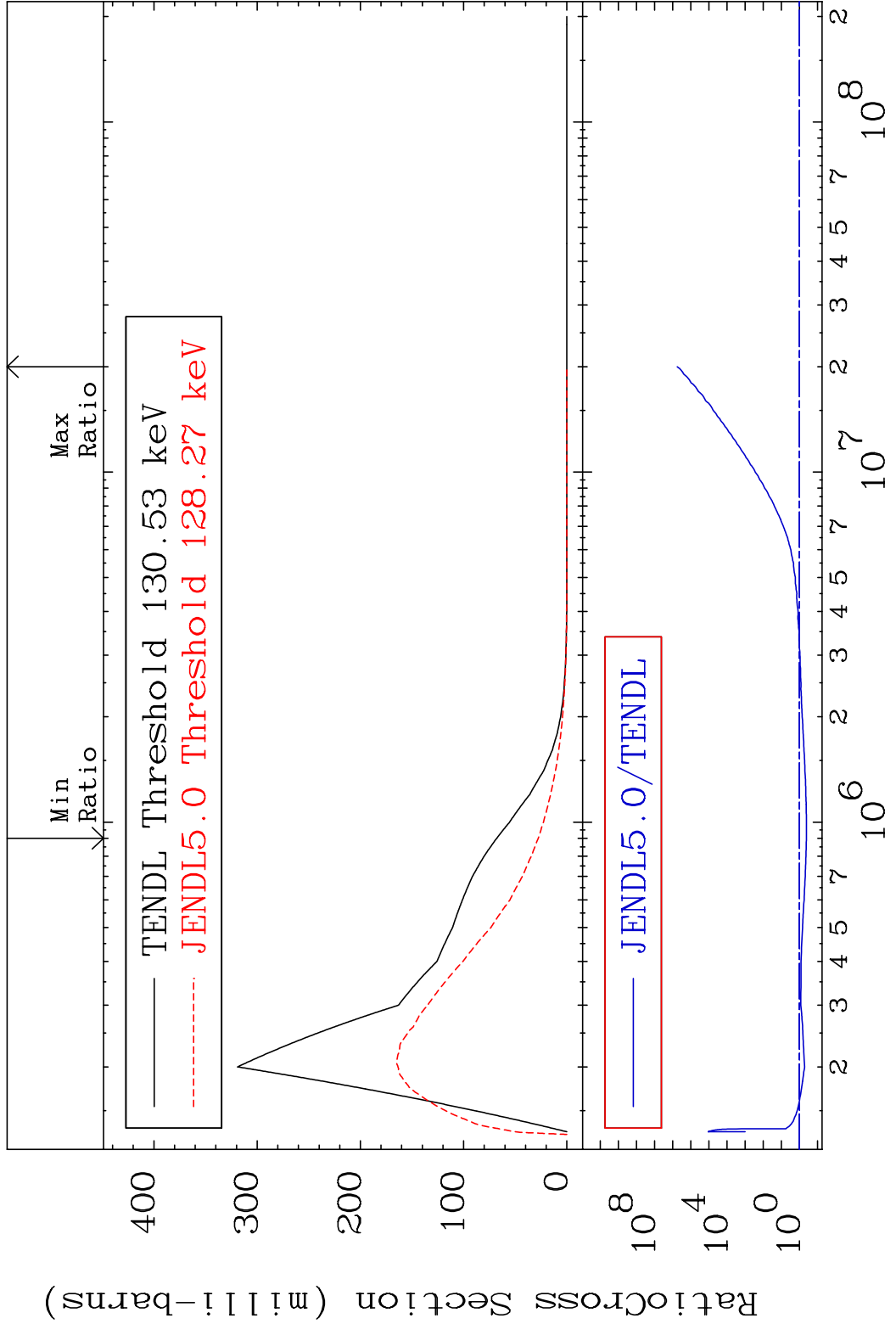


19 Incident Energy (eV) 63-Eu-154

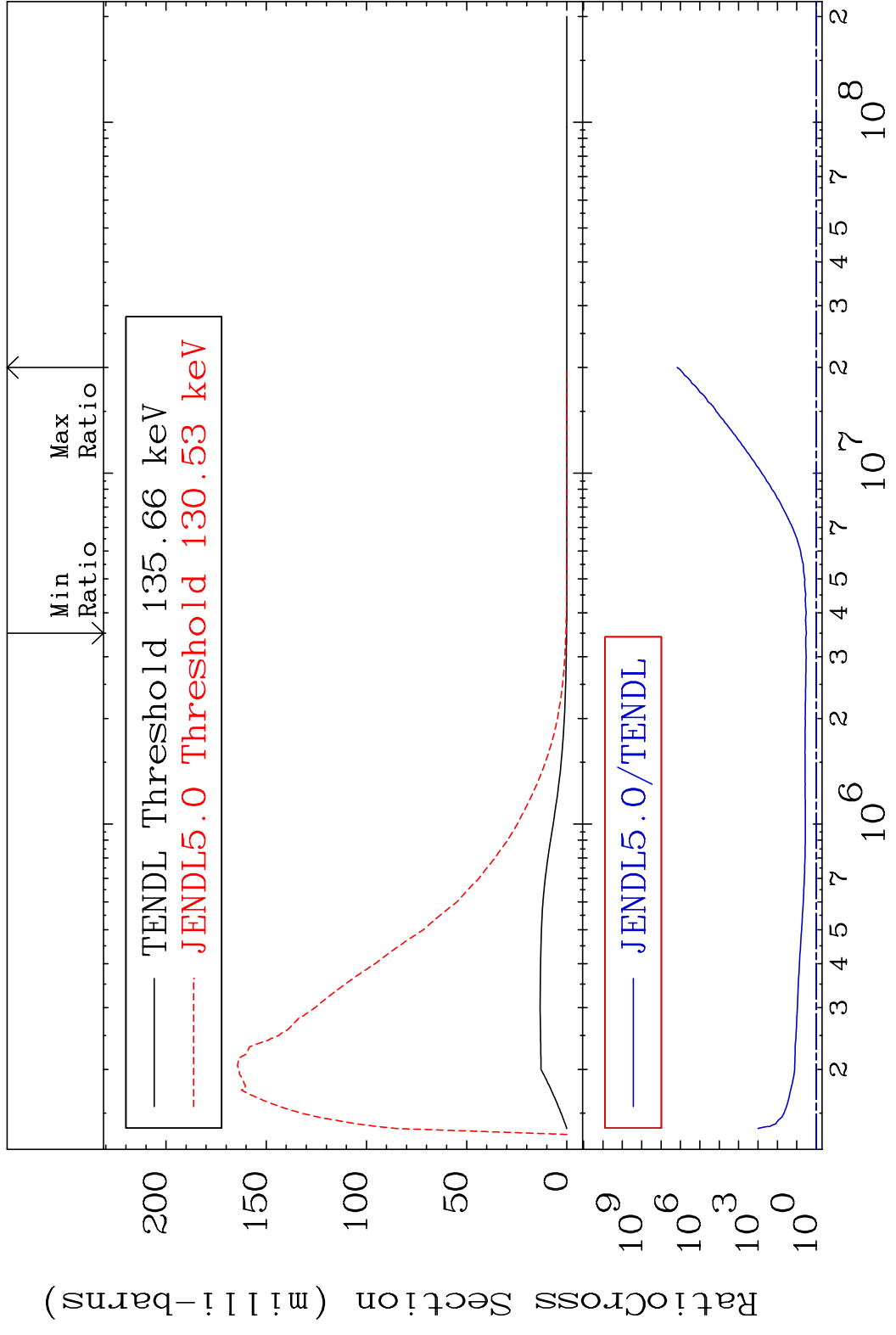
MAT 6334 MT= 59 (n,n') Level 63-Eu-154
 Cross Section -99.02 To 4534. %



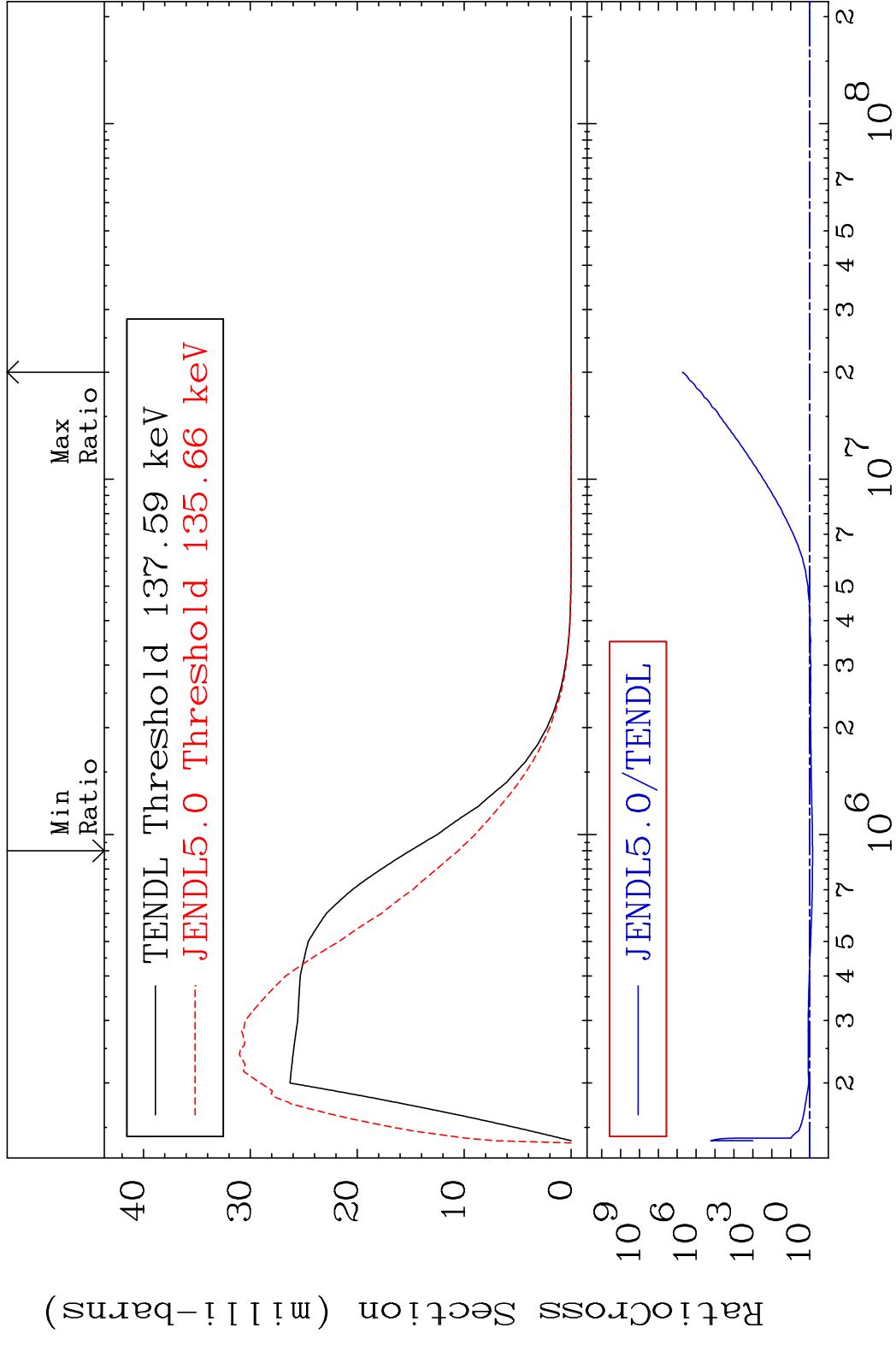
MAT 6334 MT= 60 (n,n') Level 63-Eu-154
 Cross Section -59.24 To 9999. %



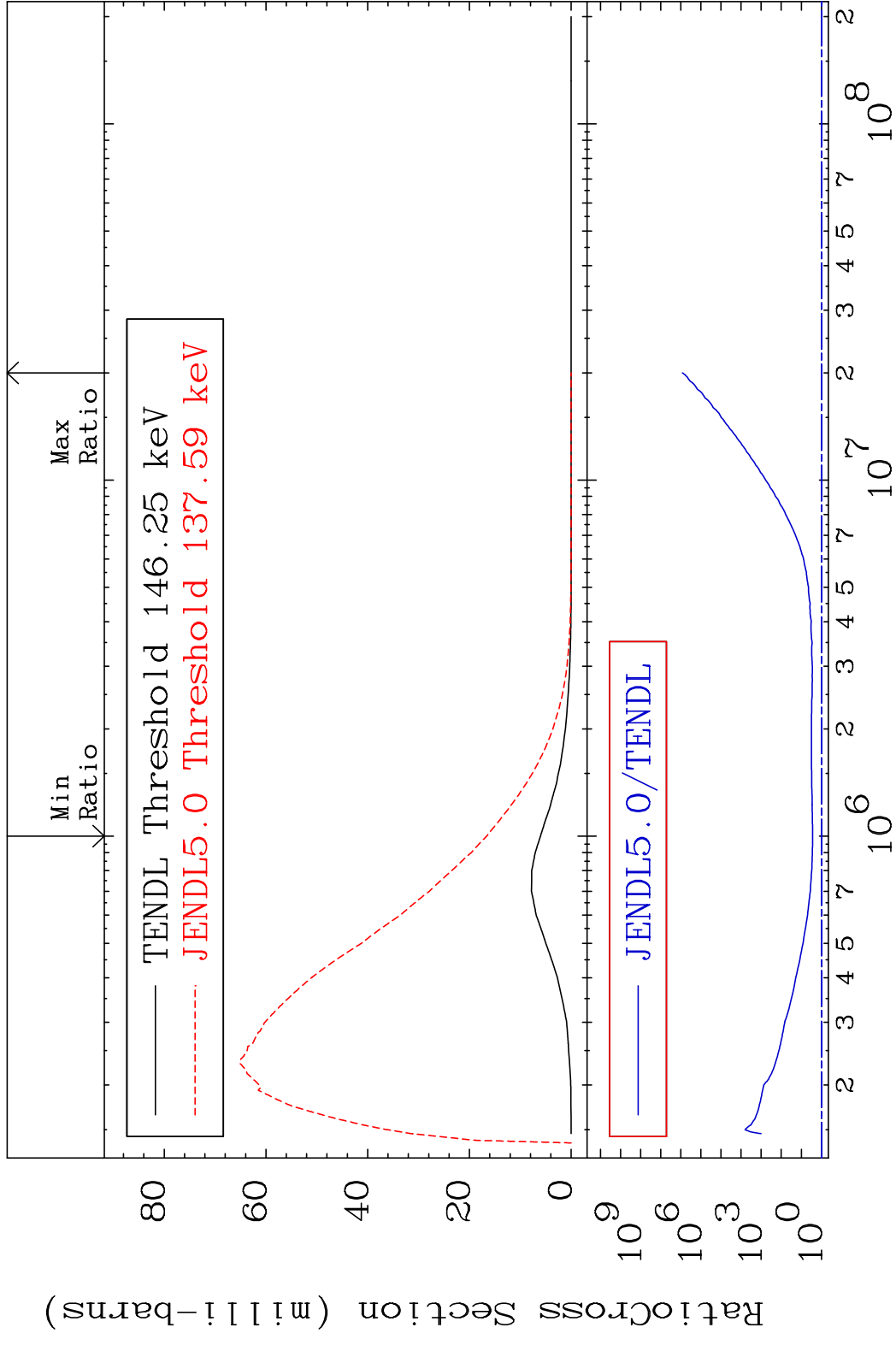
MAT 6334 MT= 61 (n, n') Level 63-Eu-154
 Cross Section 220.4 To 9999. %



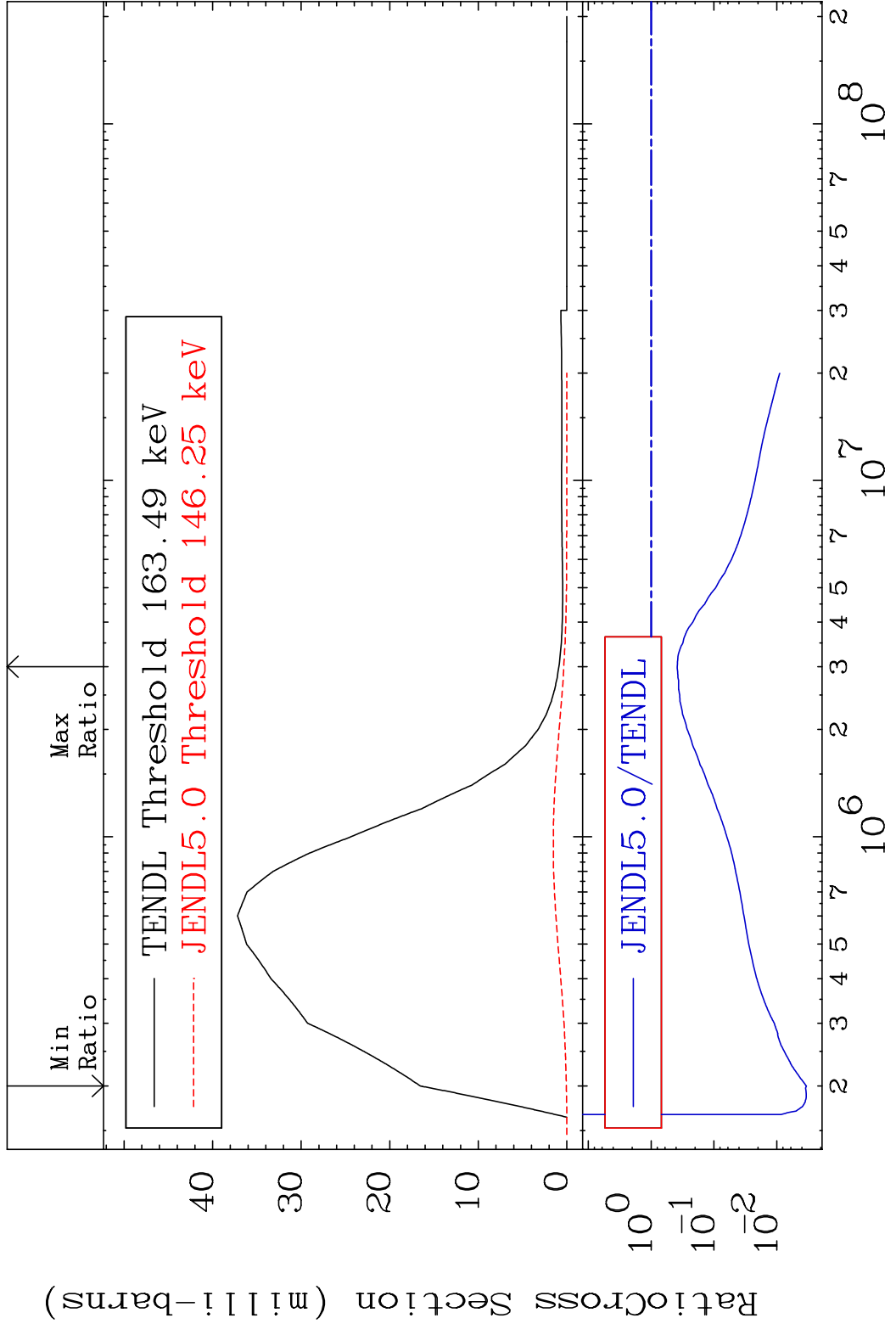
MAT 6334 MT= 62 (n, n') Level 63-Eu-154
 Cross Section -29.92 To 9999. %



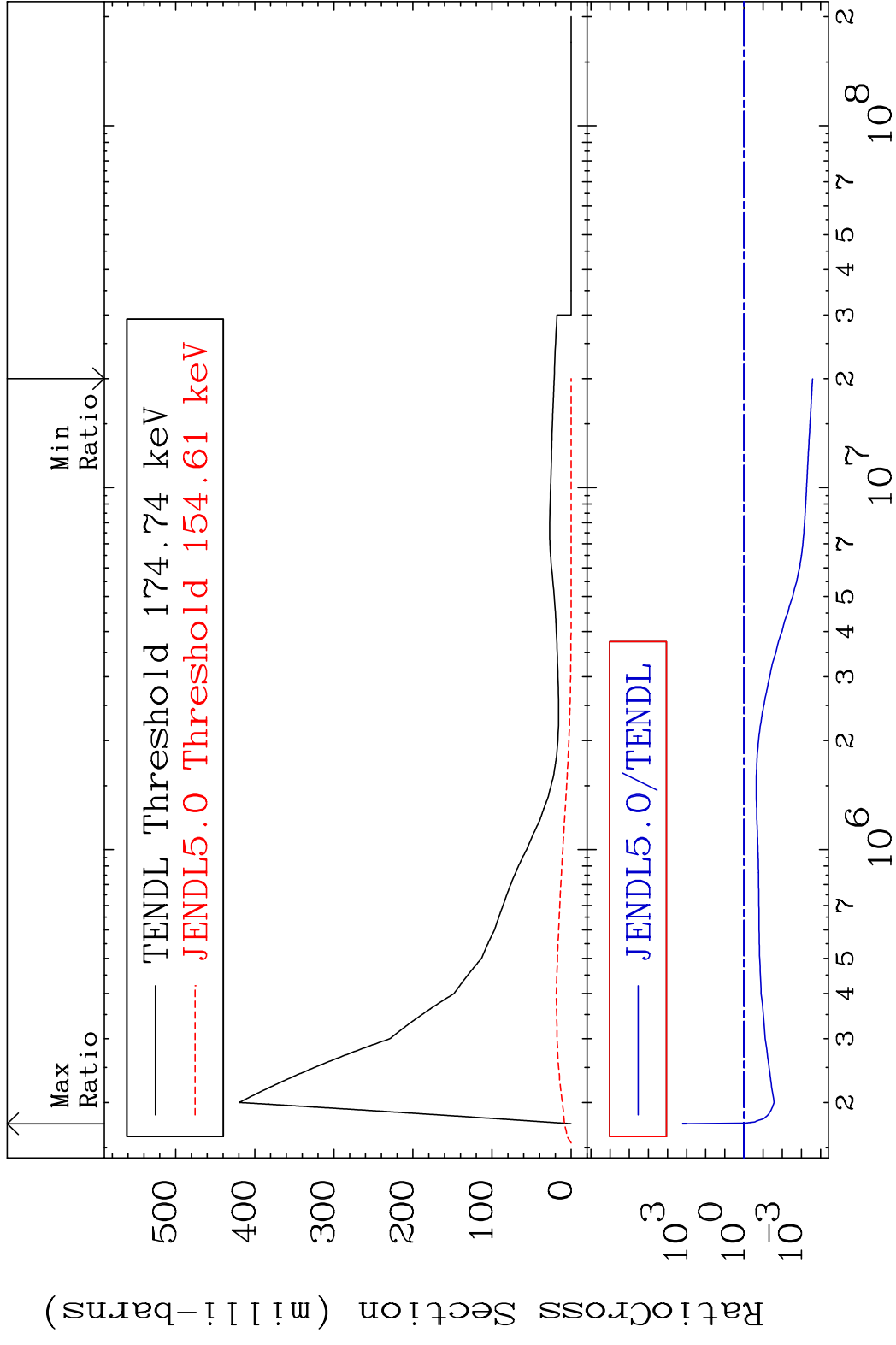
MAT 6334 MT= 63 (n, n') Level 63-Eu-154
 Cross Section 175.5 To 9999. %



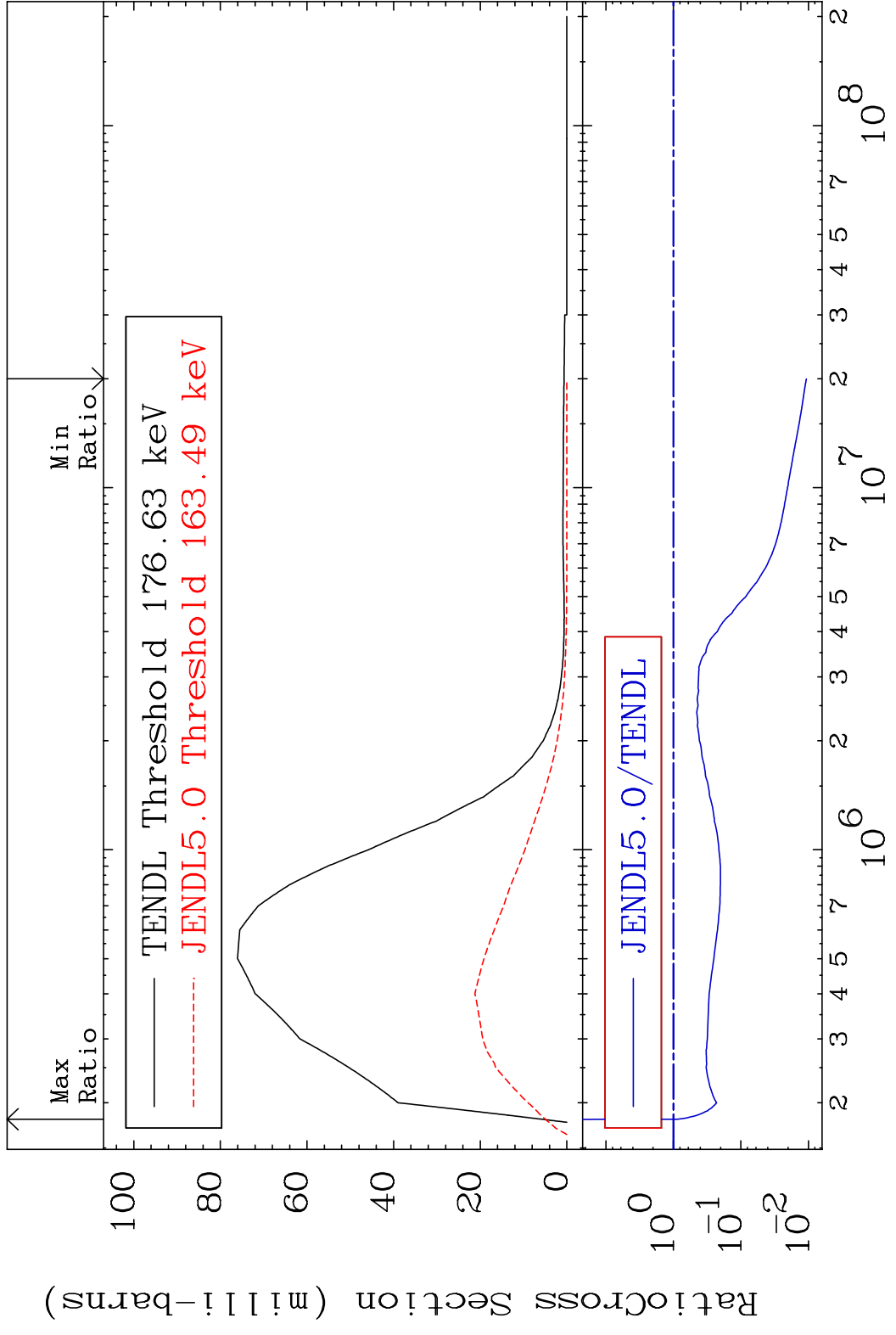
MAT 6334 MT= 64 (n, n') Level 63-Eu-154
 Cross Section -99.66 To -61.52%



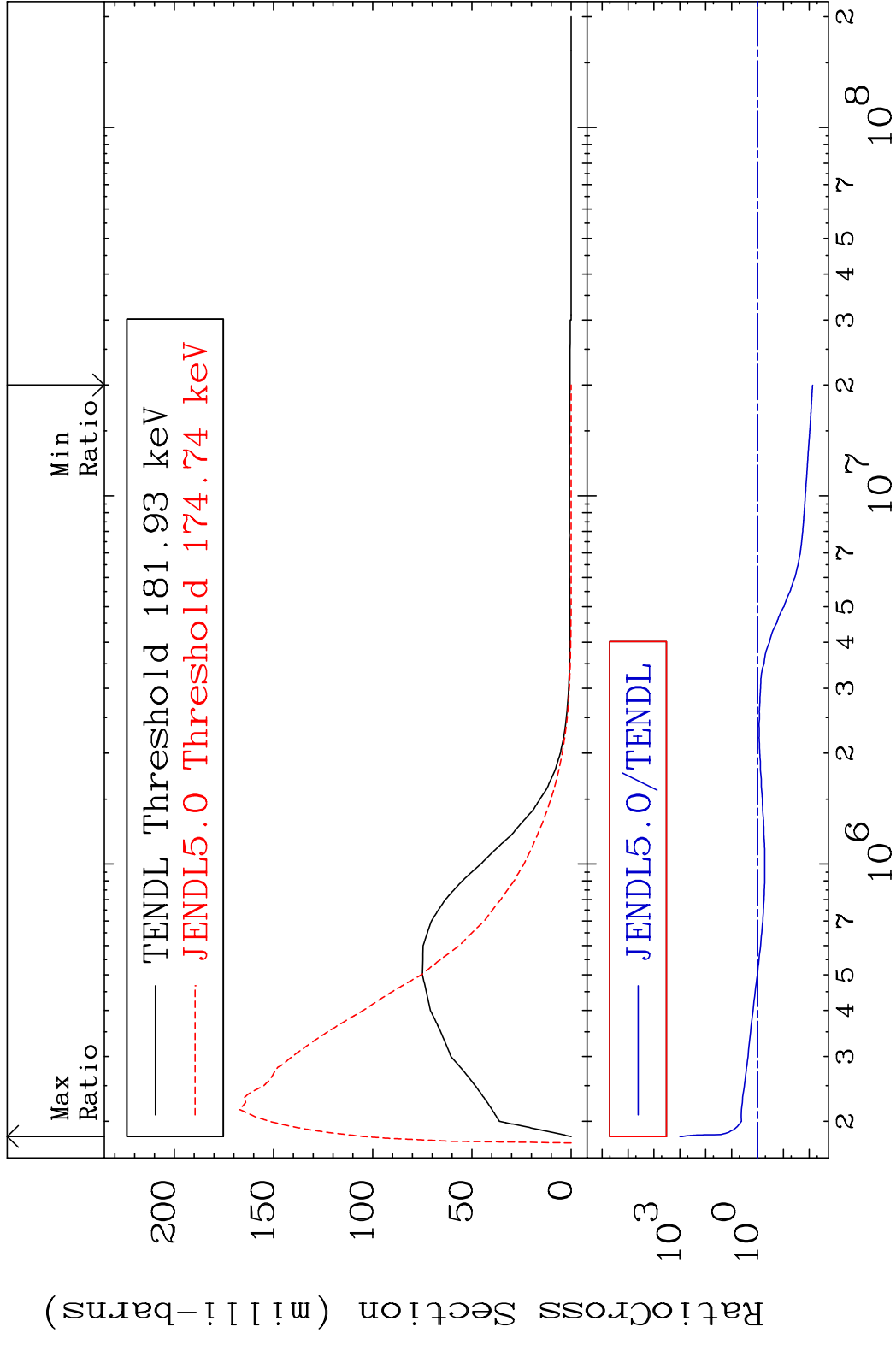
MAT 6334 MT= 65 (n,n') Level 63-Eu-154
 Cross Section -99.97 To 9999. %



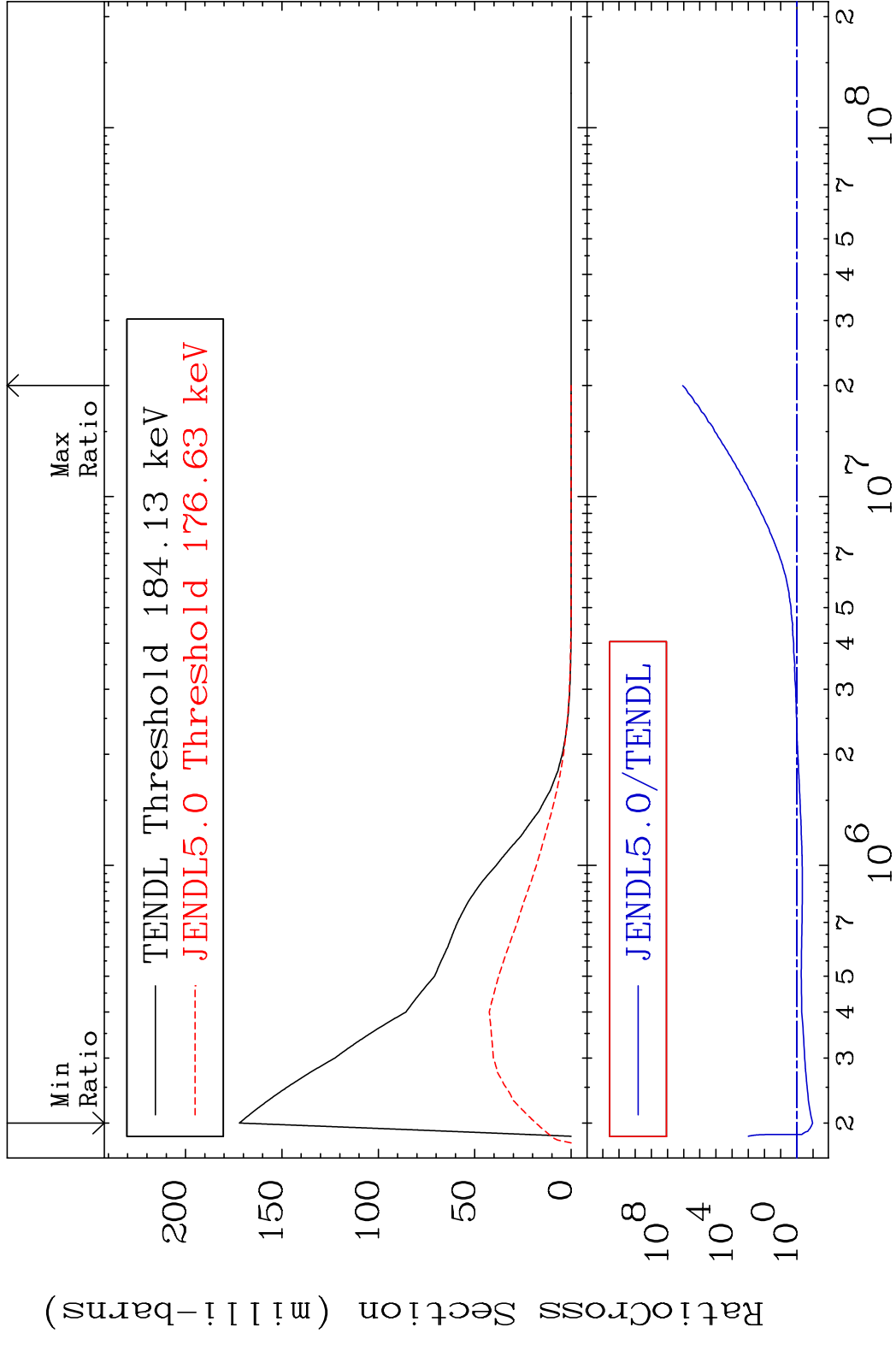
MAT 6334 MT= 66 (n,n') Level 63-Eu-154
 Cross Section -98.93 To -12.05%



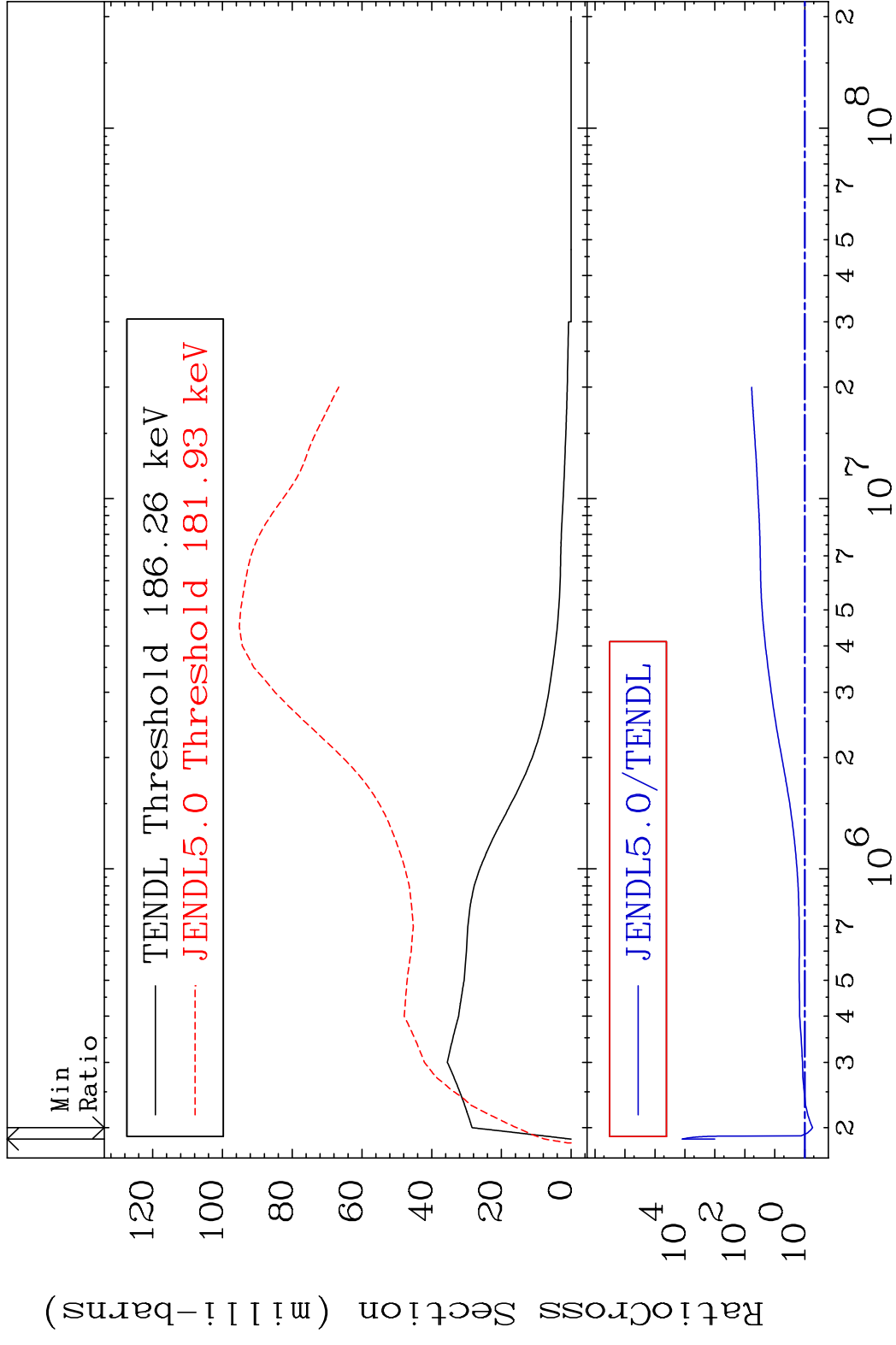
MAT 6334 MT= 67 (n, n') Level 63-Eu-154
 Cross Section -99.25 To 9999. %



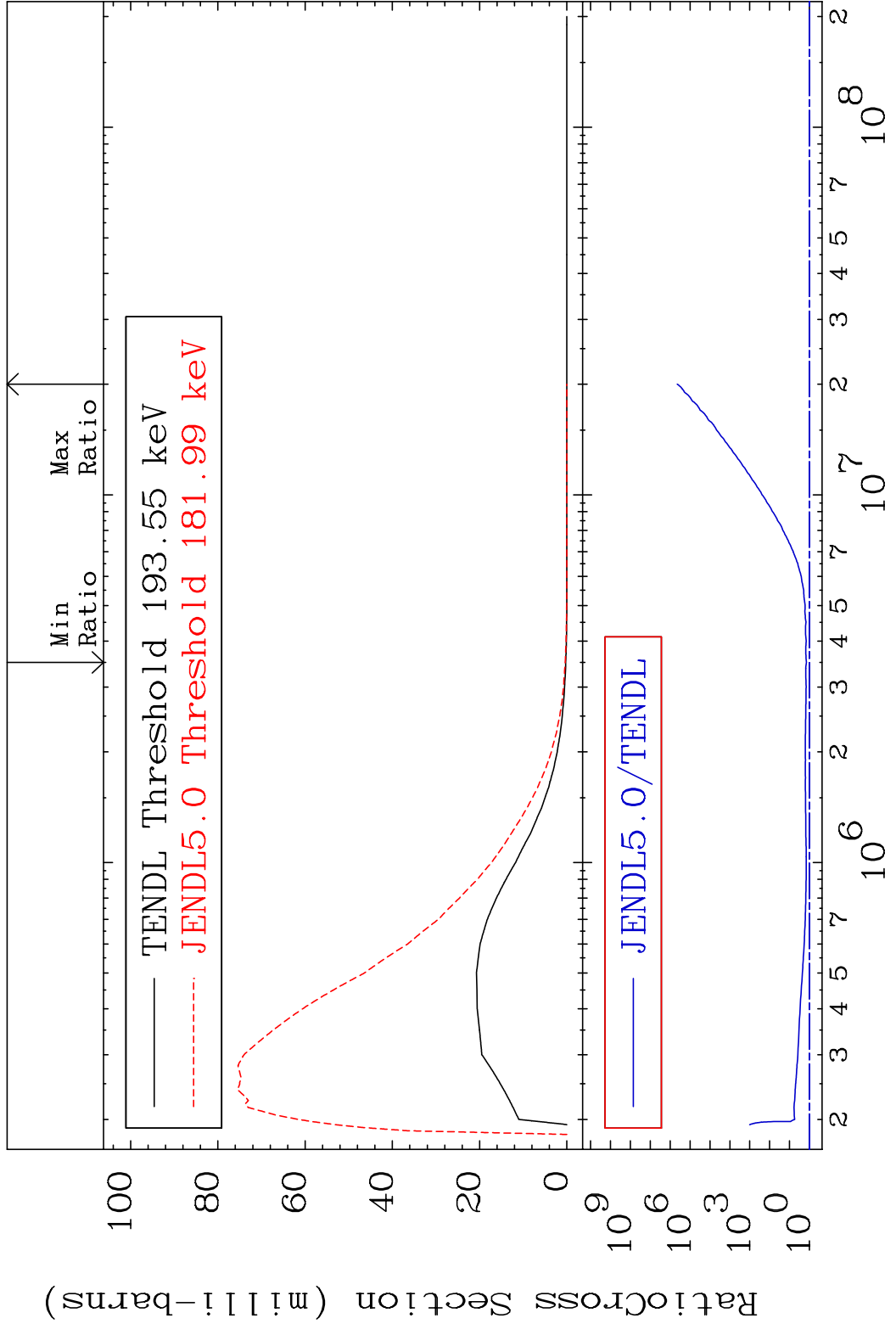
MAT 6334 MT= 68 (n,n') Level 63-Eu-154
 Cross Section -89.38 To 9999. %



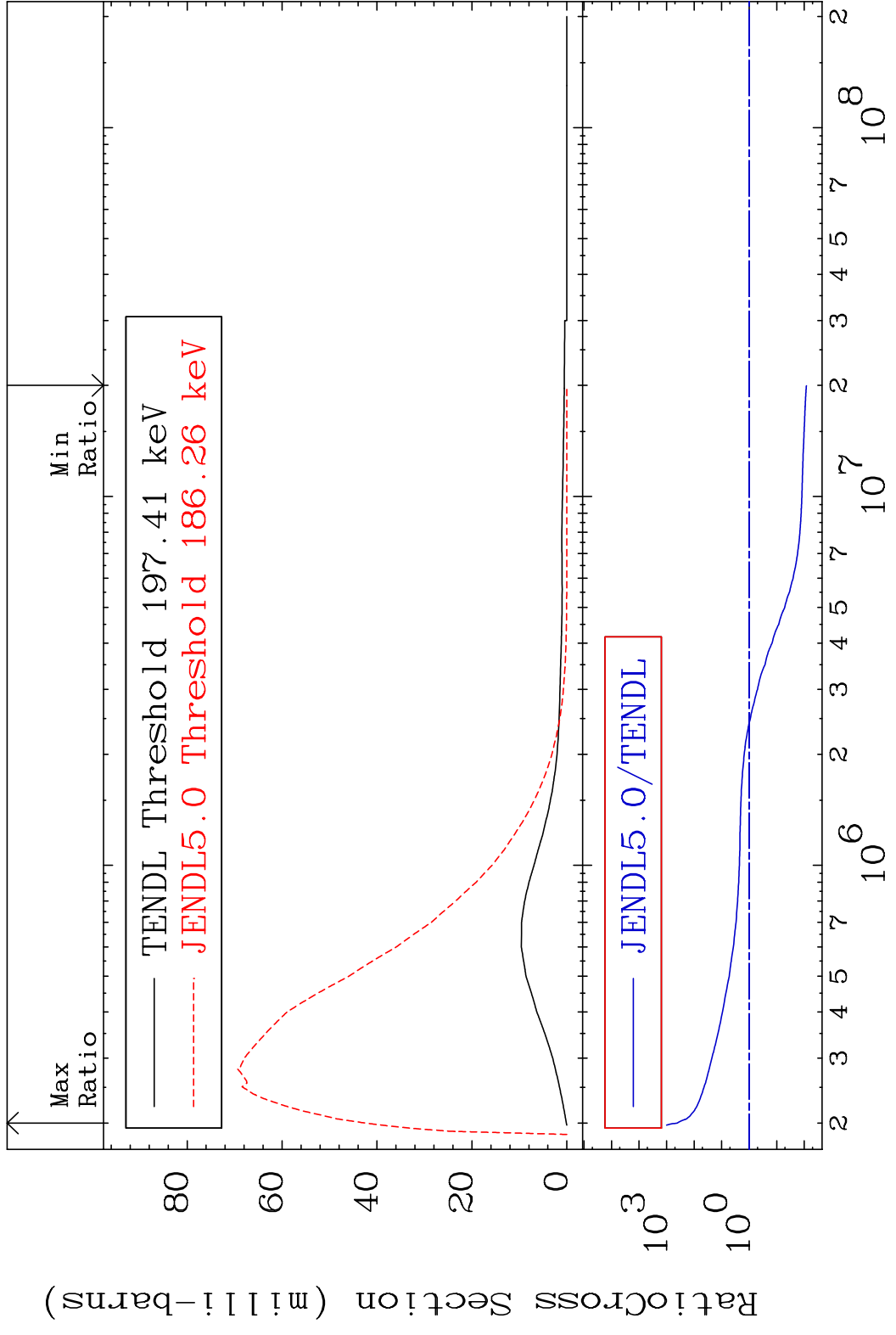
MAT 6334 MT= 69 (n,n') Level 63-Eu-154
 Cross Section -44.98 To 9999. %



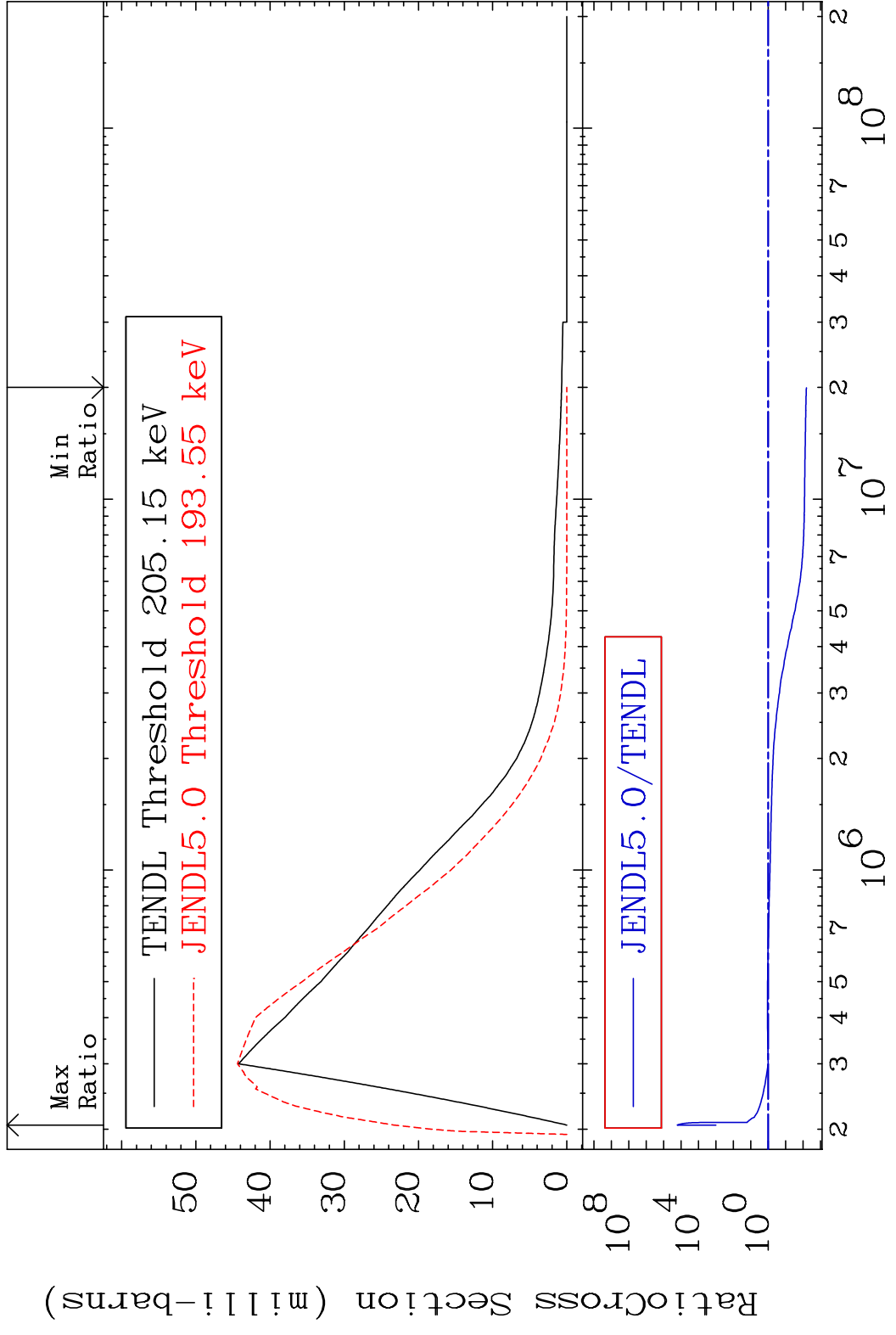
MAT 6334 MT= 70 (n, n') Level 63-Eu-154
 Cross Section 42.42 To 9999. %



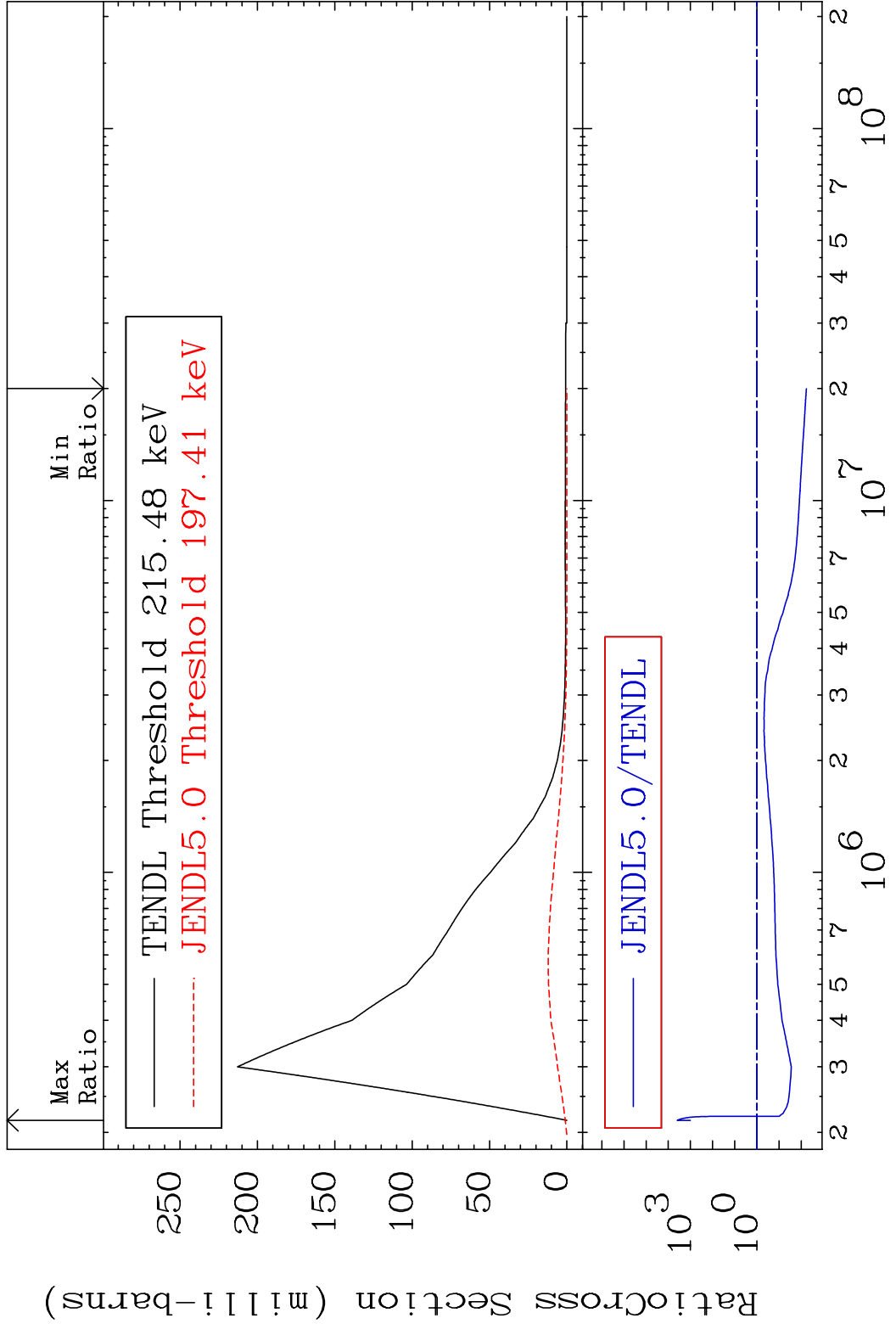
MAT 6334 MT= 71 (n,n') Level 63-Eu-154
 Cross Section -99.16 To 9999. %



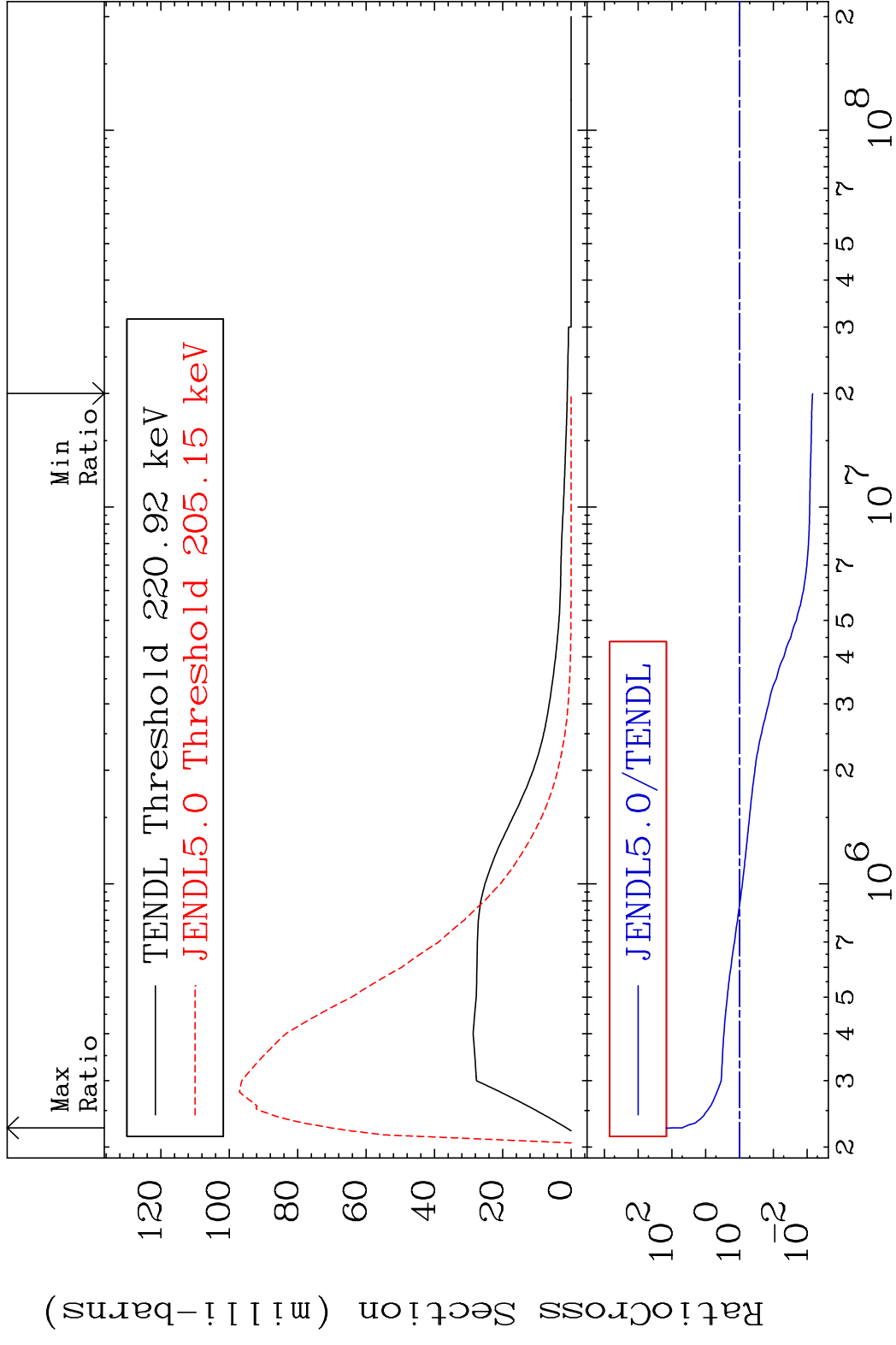
MAT 6334 MT= 72 (n,n') Level 63-Eu-154
 Cross Section -99.36 To 9999. %



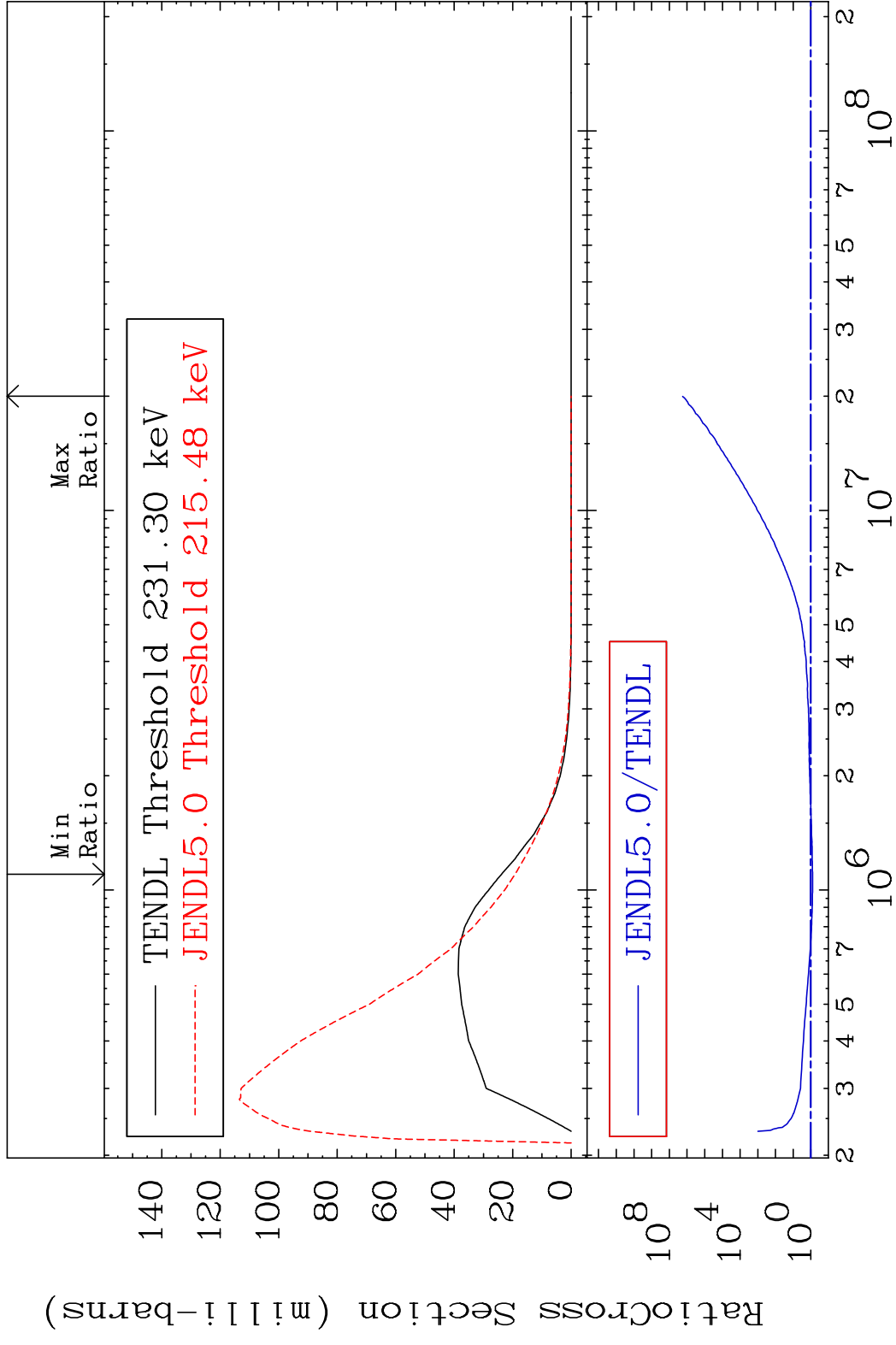
MAT 6334 MT= 73 (n,n') Level 63-Eu-154
 Cross Section -99.41 To 9999. %



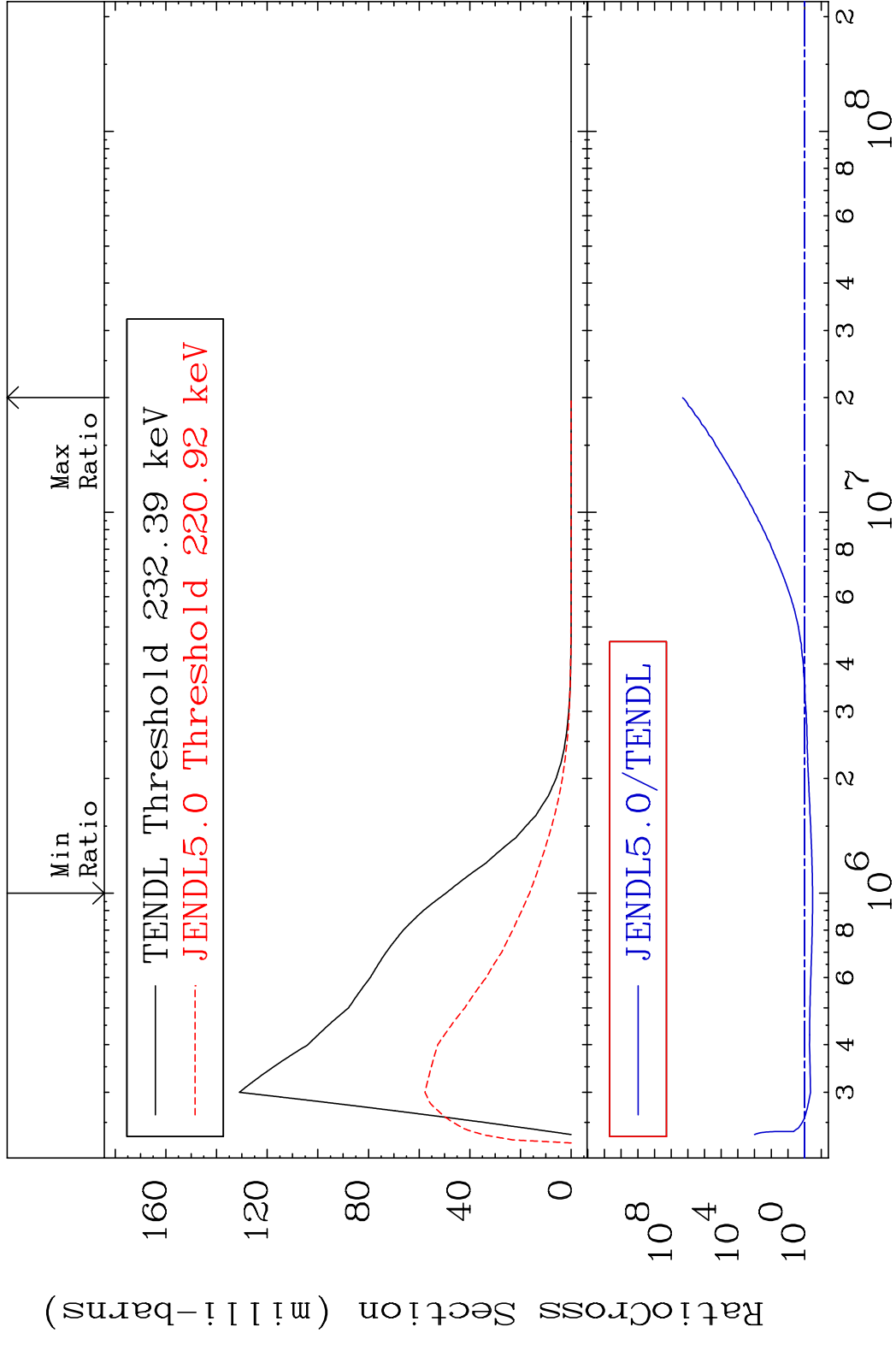
MAT 6334 MT= 74 (n,n') Level 63-Eu-154
 Cross Section -99.31 To 4819. %



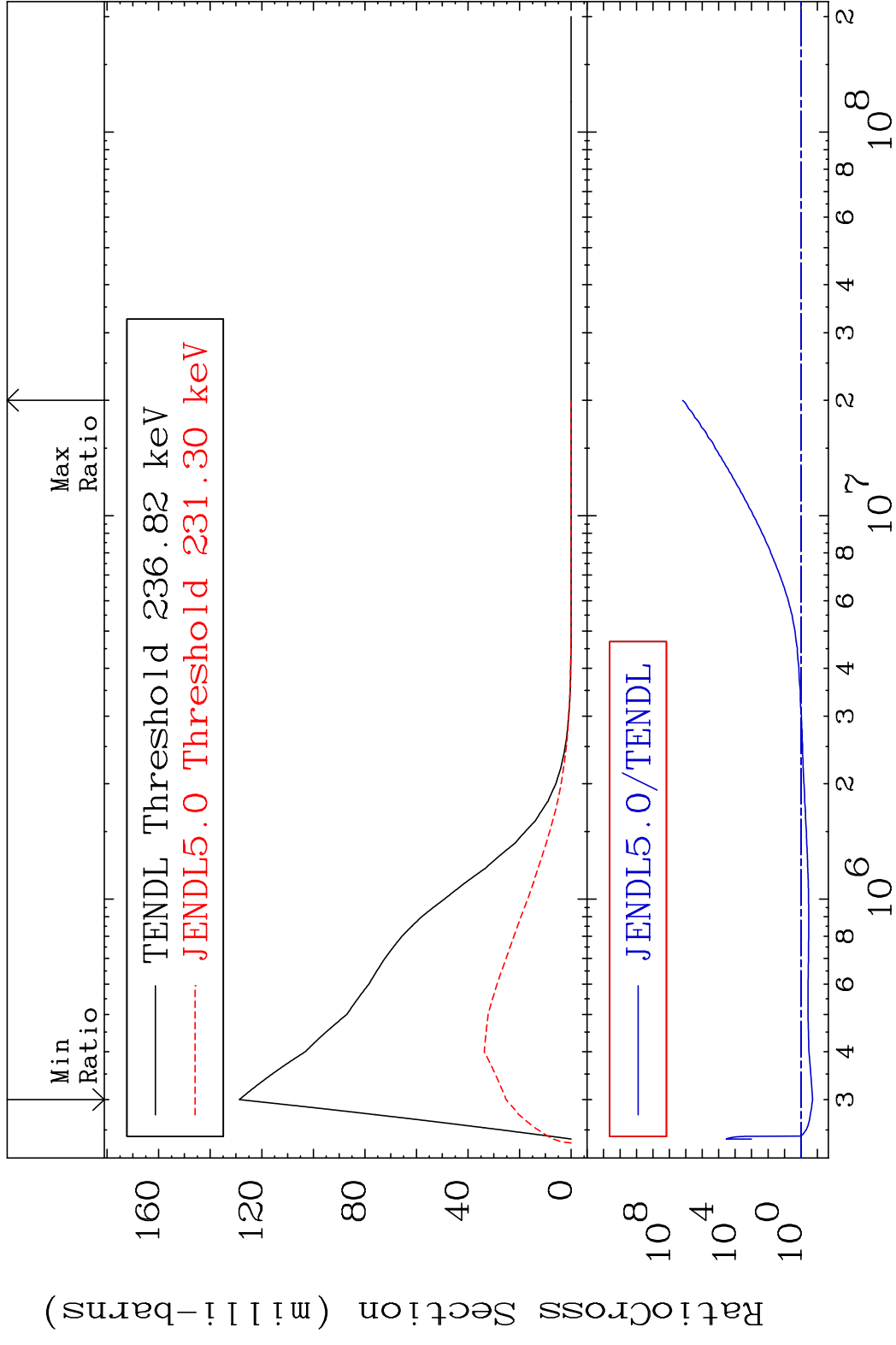
MAT 6334 MT= 75 (n,n') Level 63-Eu-154
 Cross Section -19.66 To 9999. %



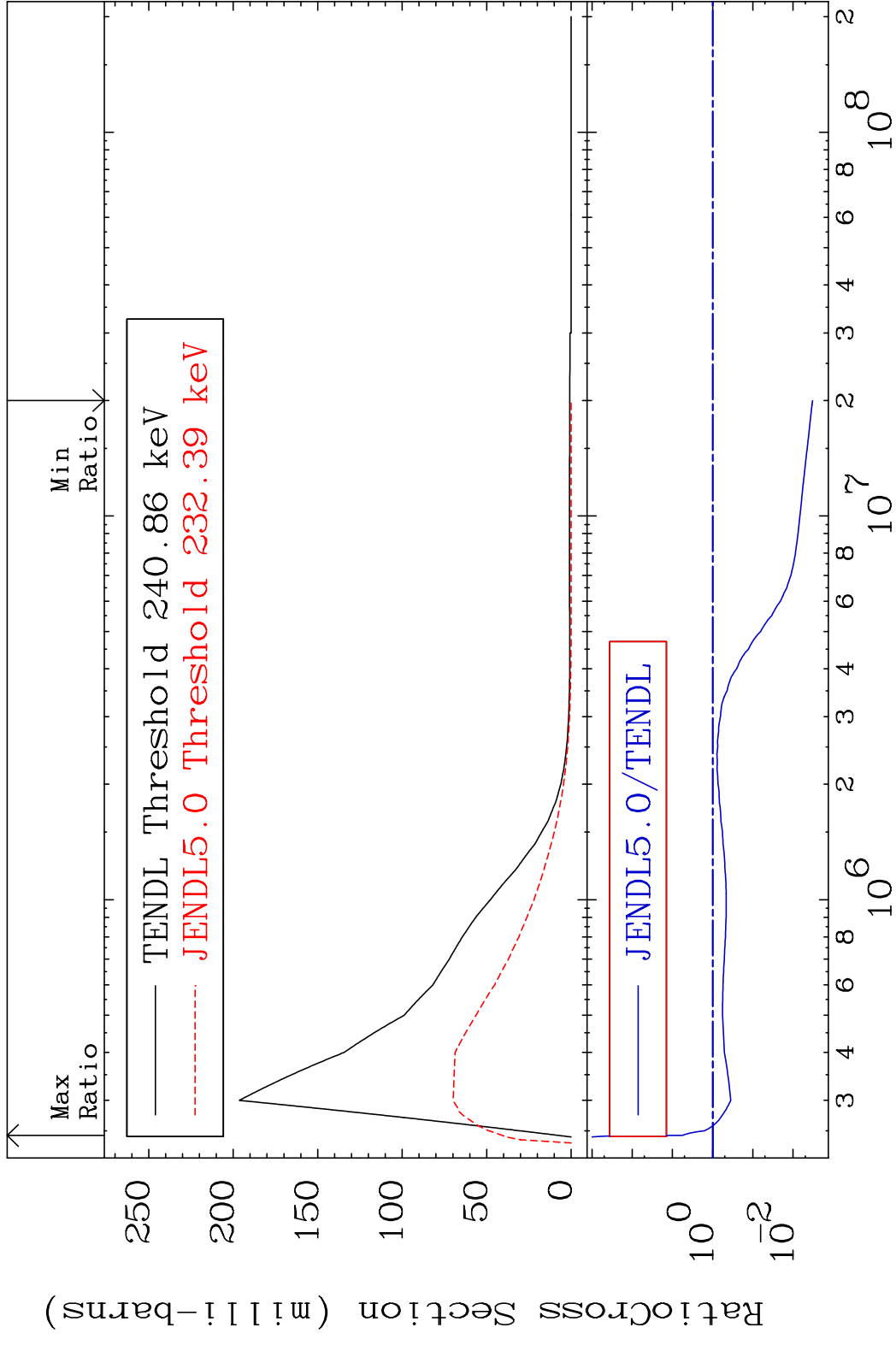
MAT 6334 MT= 76 (n,n') Level 63-Eu-154
 Cross Section -66.74 To 9999. %



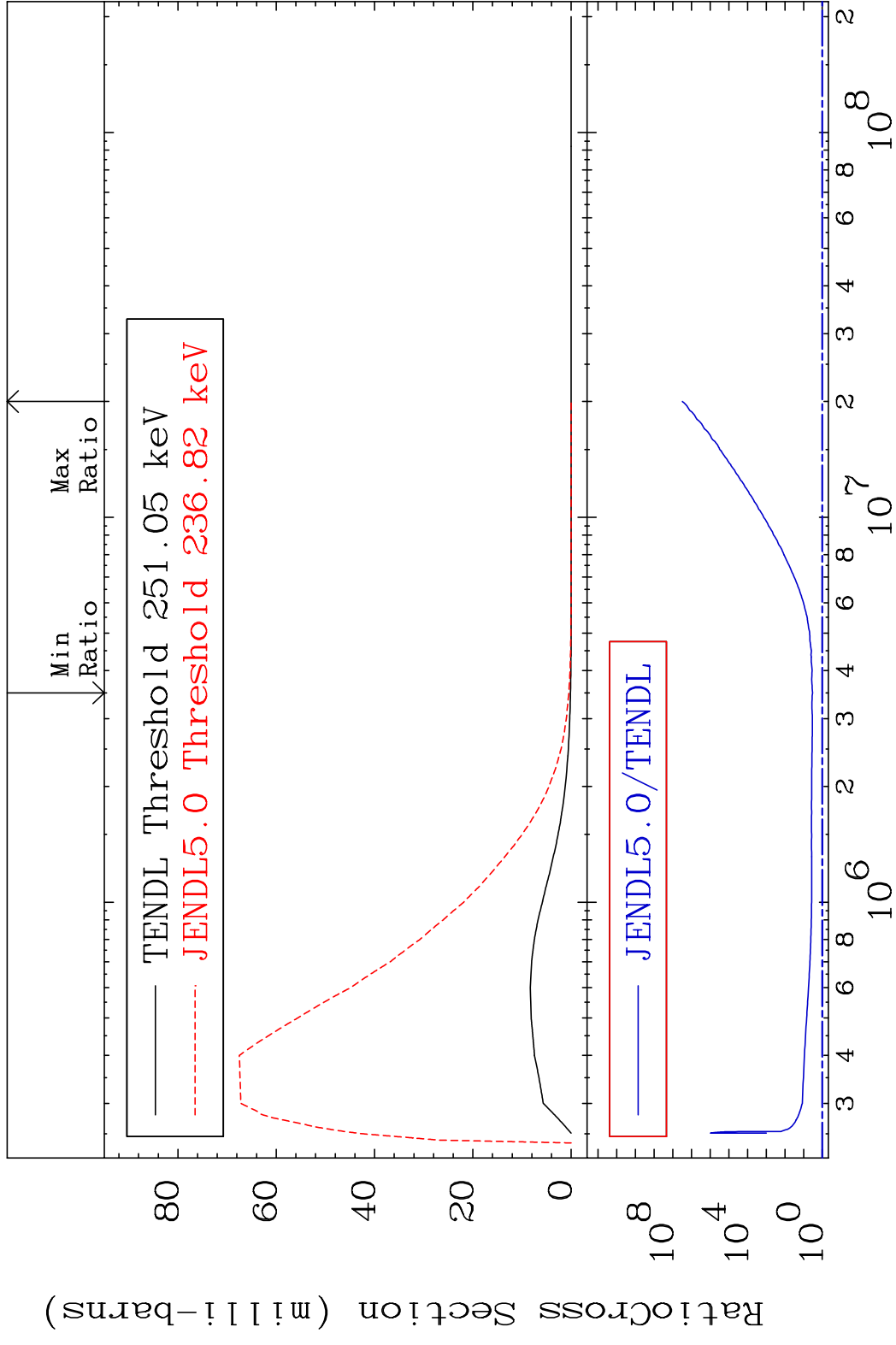
MAT 6334 MT= 77 (n,n') Level 63-Eu-154
 Cross Section -80.39 To 9999. %



MAT 6334 MT= 78 (n,n') Level 63-Eu-154
 Cross Section -99.67 To 466.3 %

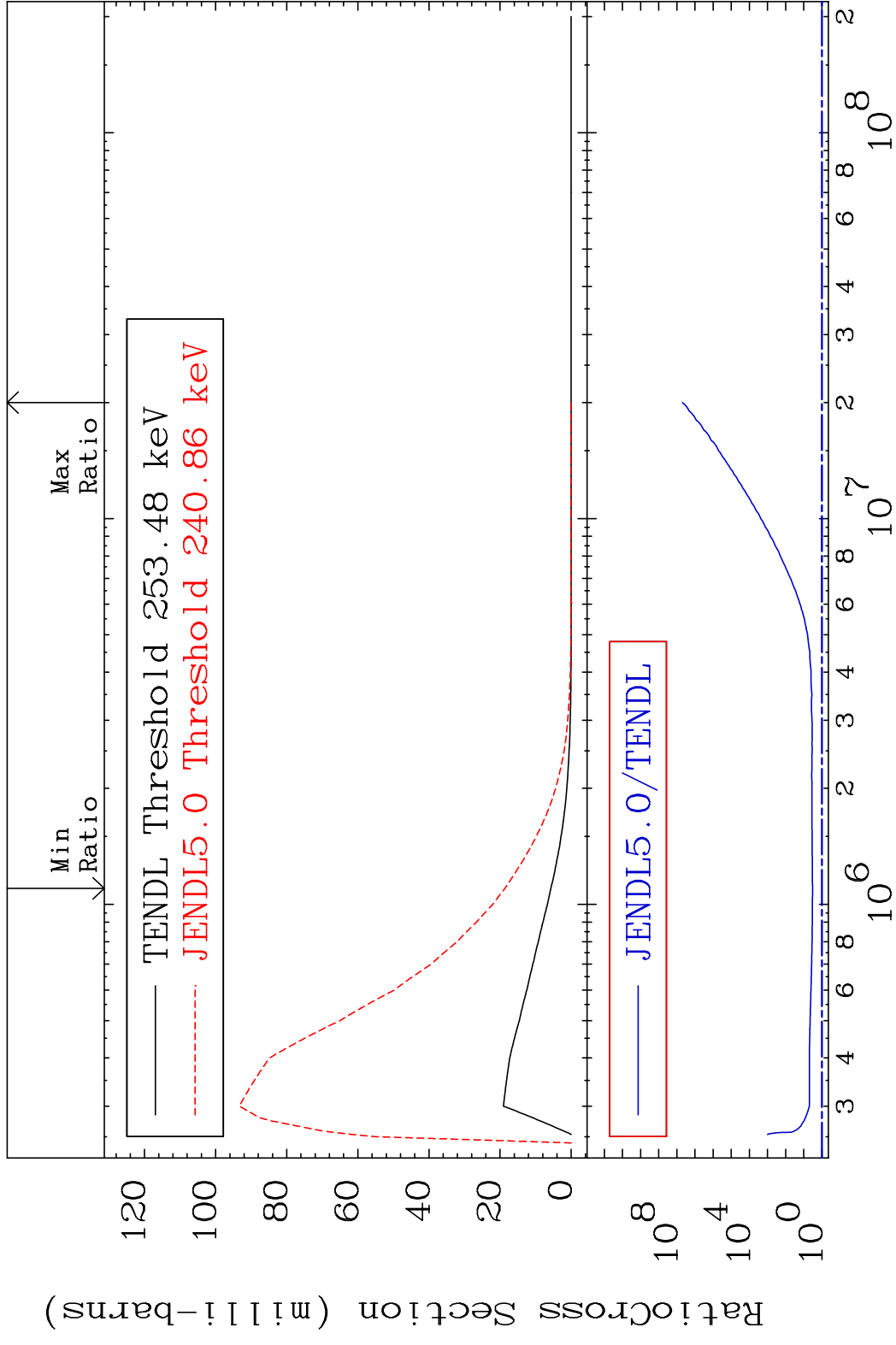


MAT 6334 MT= 79 (n, n') Level 63-Eu-154
 Cross Section 232.0 To 9999. %



40 Incident Energy (eV) 63-Eu-154

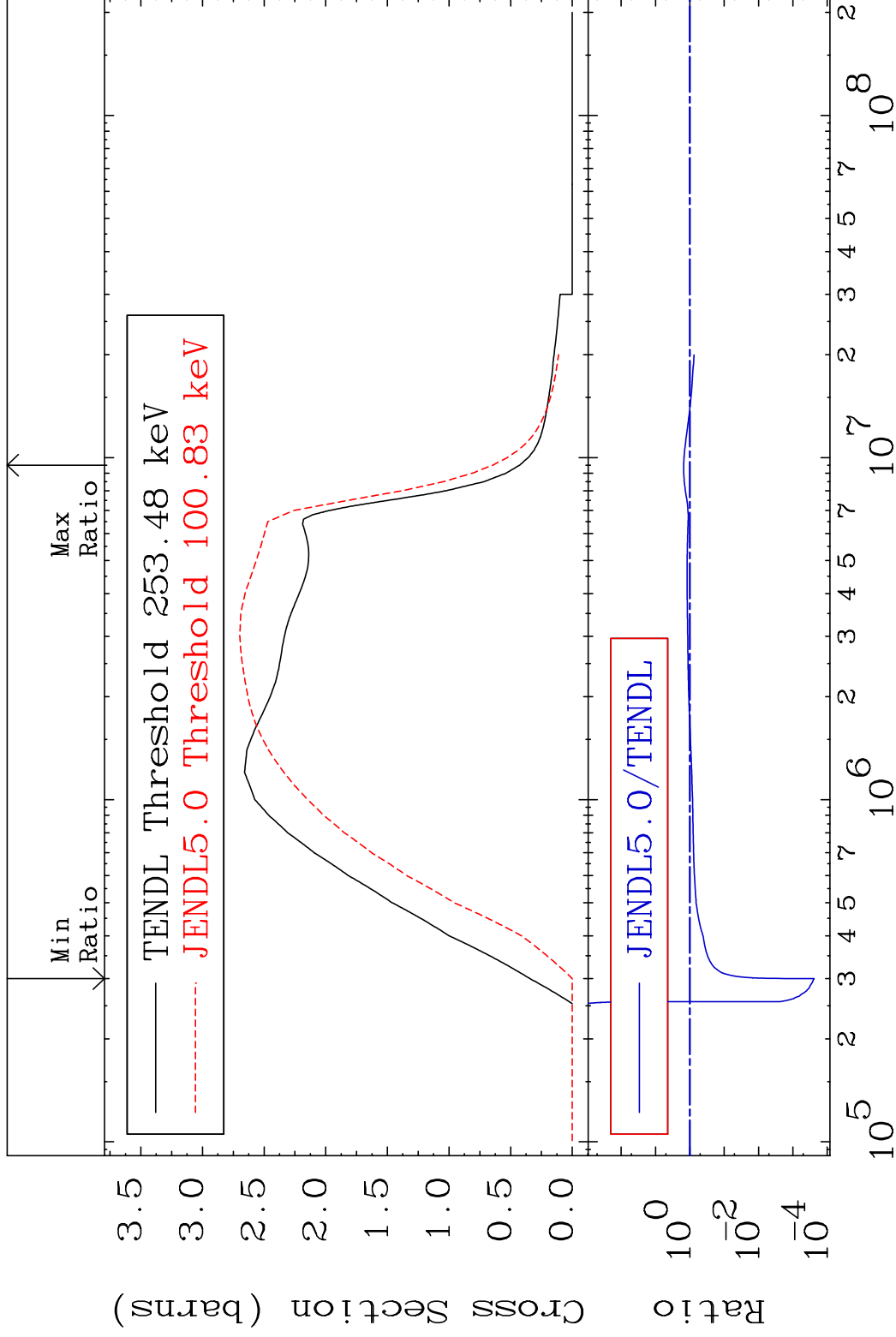
MAT 6334 MT= 80 (n, n') Level 63-Eu-154
 Cross Section 226.3 To 9999. %



MAT 6334

(n, n') Continuum
Cross Section -99.98 To 51.36 %

63-Eu-154



42

Incident Energy (eV)

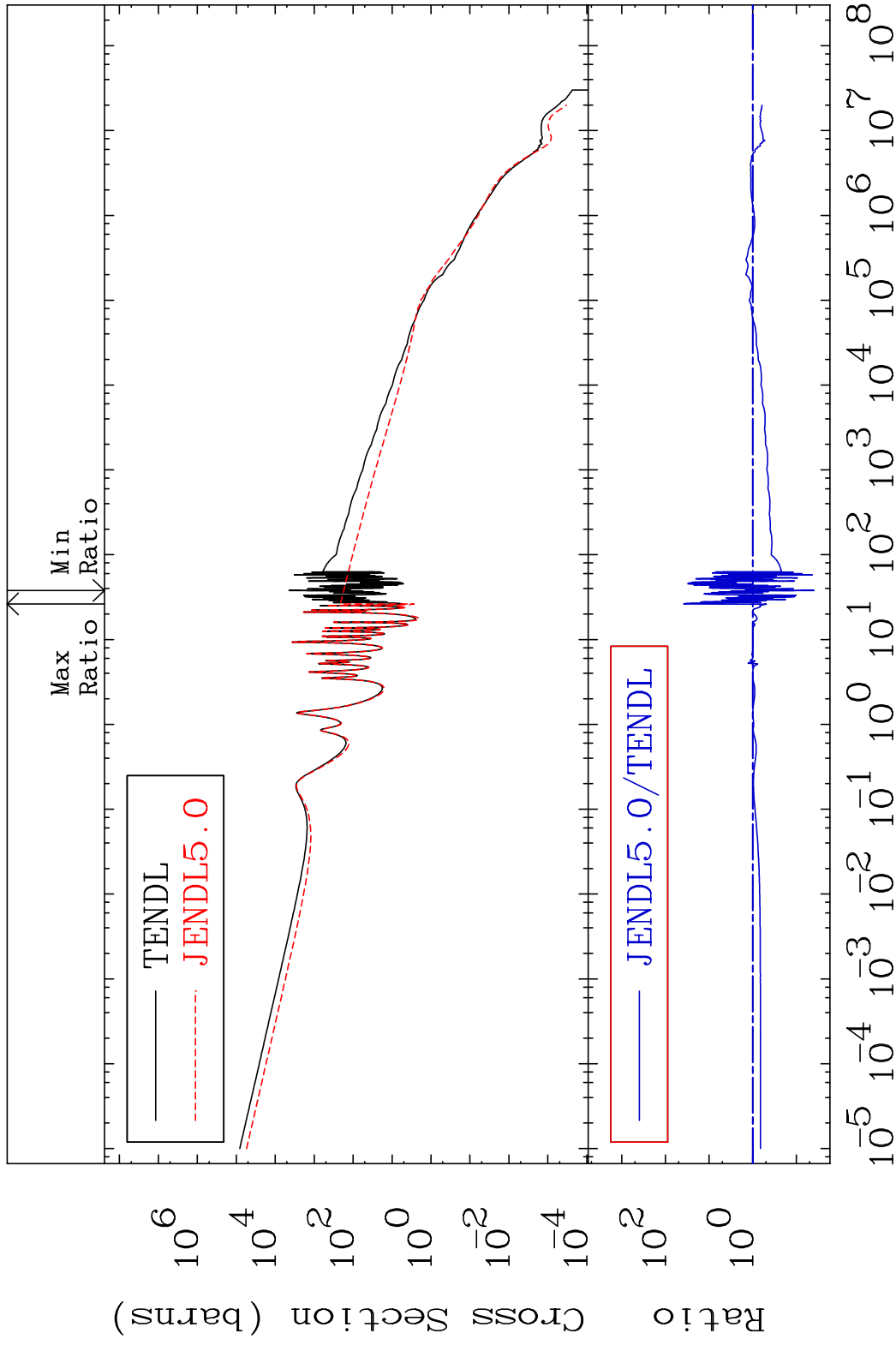
63-Eu-154

MAT 6334

(n, γ)

63-Eu-154

Cross Section -96.07 To 3730. %



43

Incident Energy (eV)

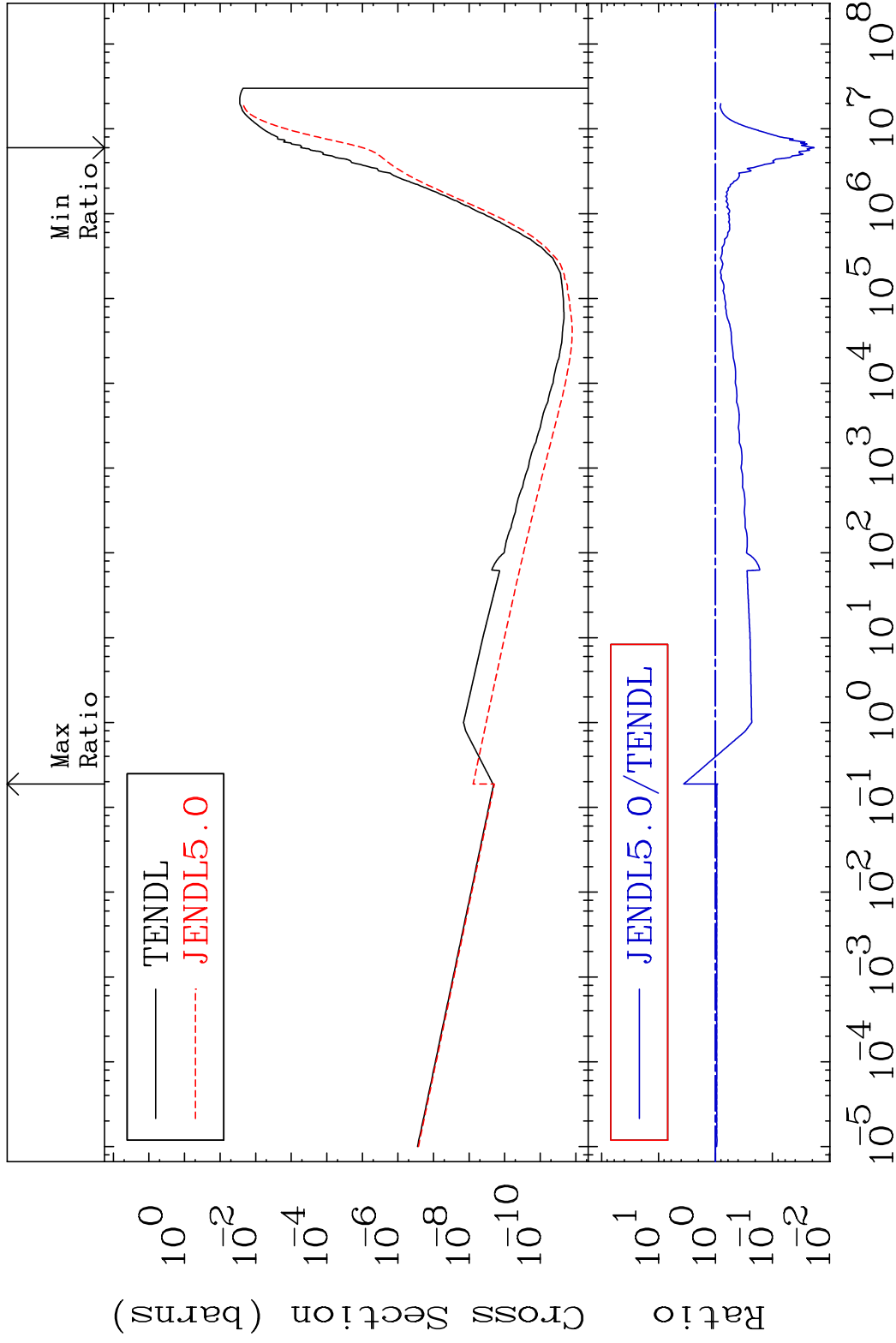
63-Eu-154

MAT 6334

(n, p)

63-Eu-154

Cross Section -98.15 To 262.3 %

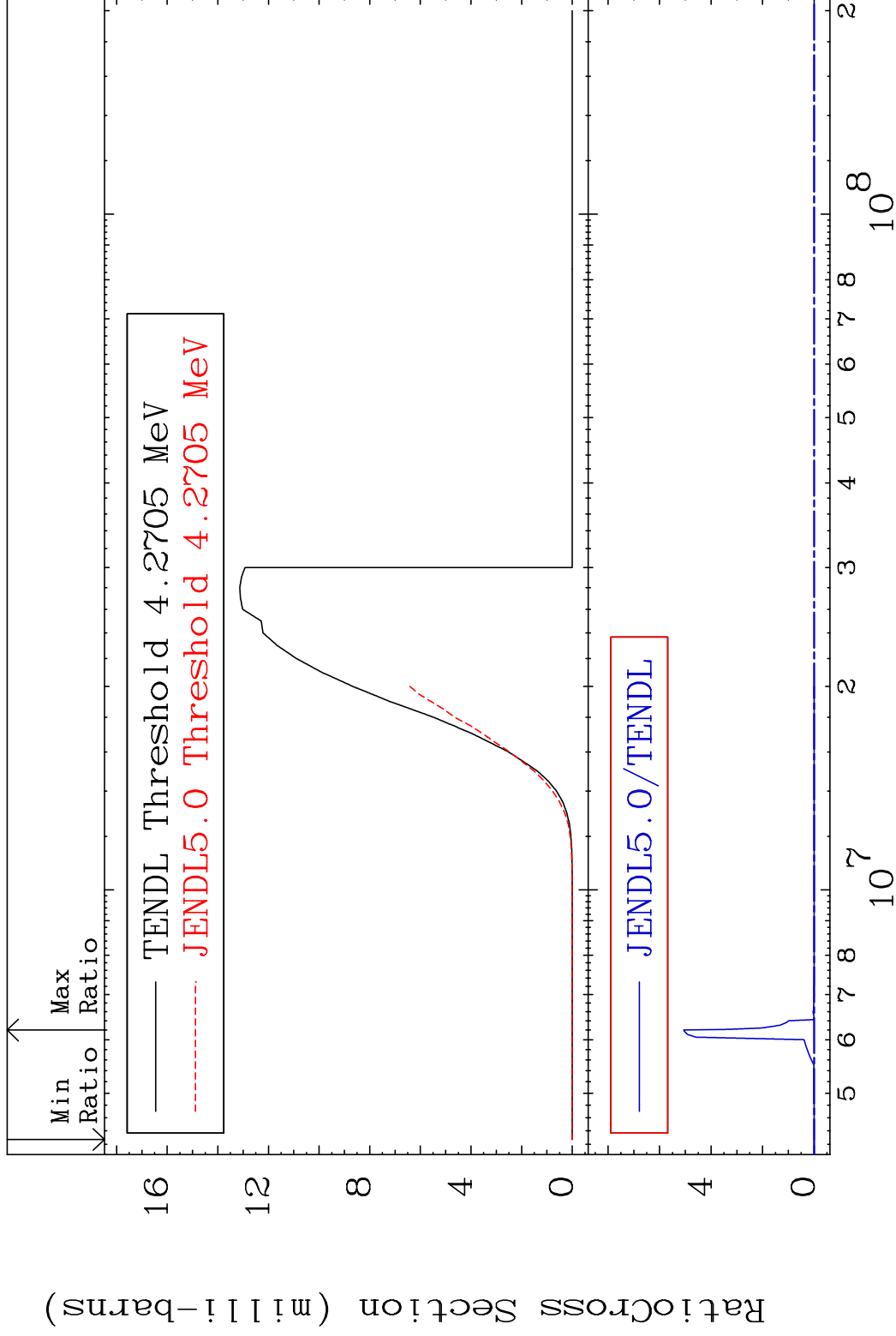


MAT 6334

(n, d)

63-Eu-154

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

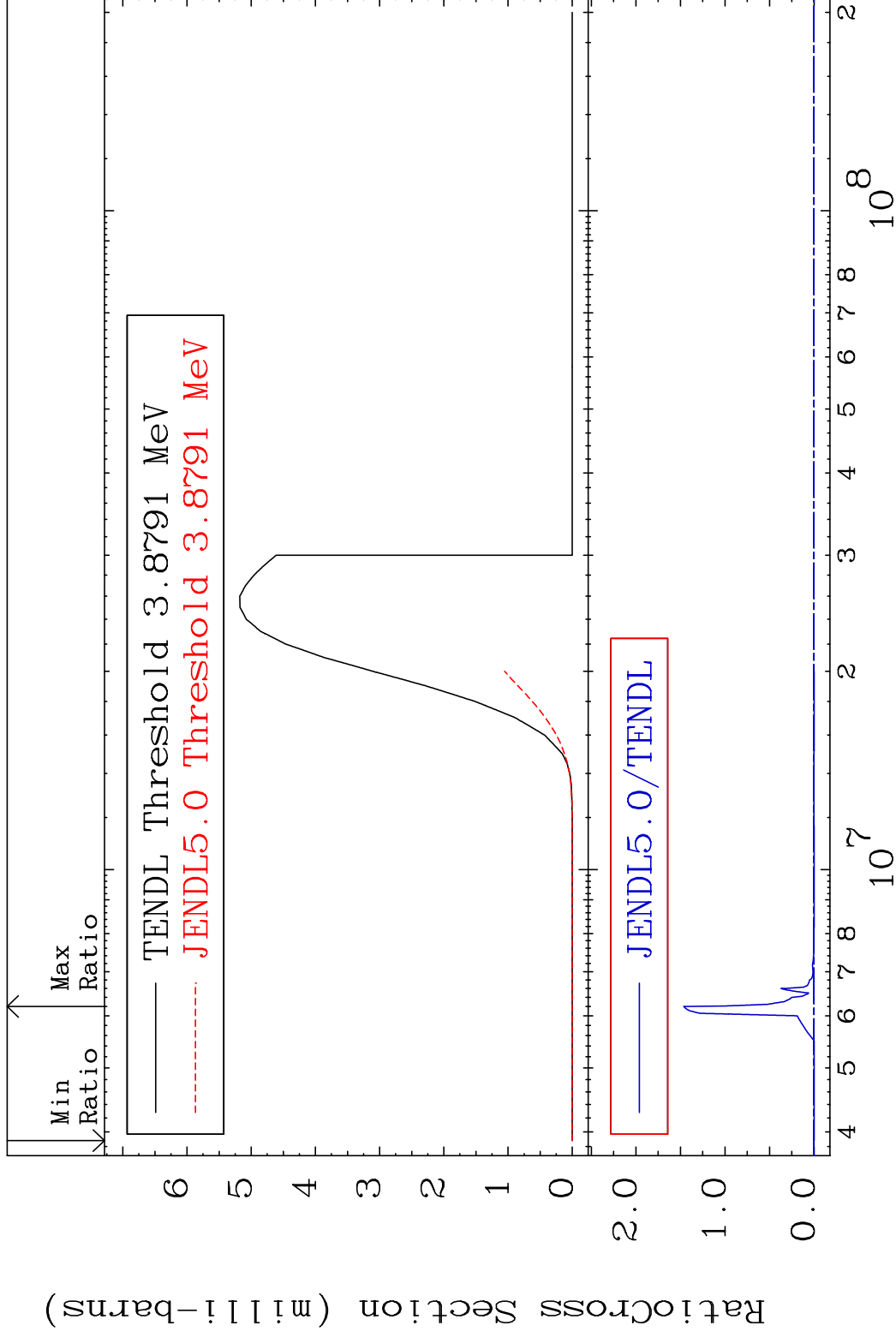
63-Eu-154

MAT 6334

(n, t)

63-Eu-154

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

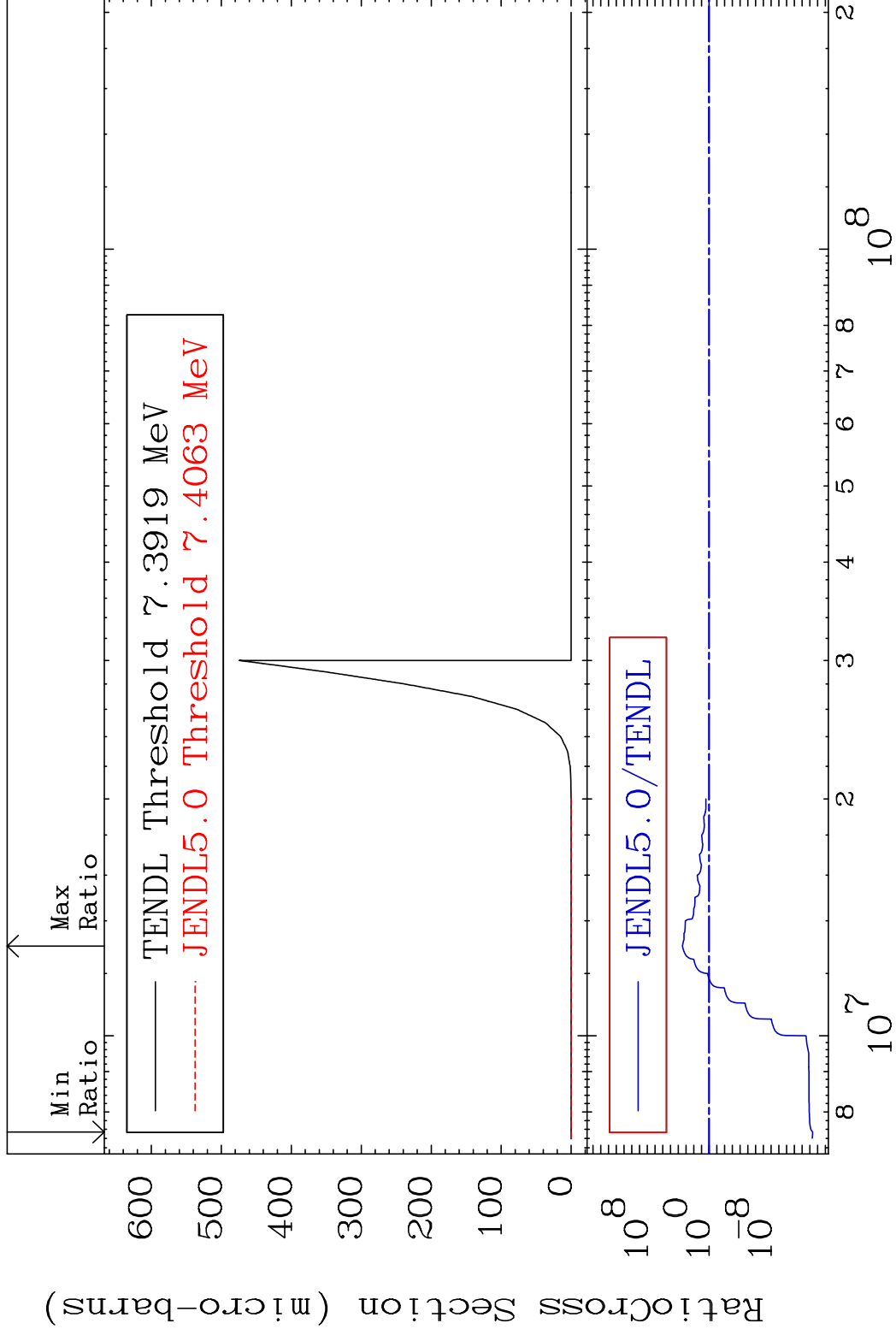
63-Eu-154

MAT 6334

(n, He-3)

63-Eu-154

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

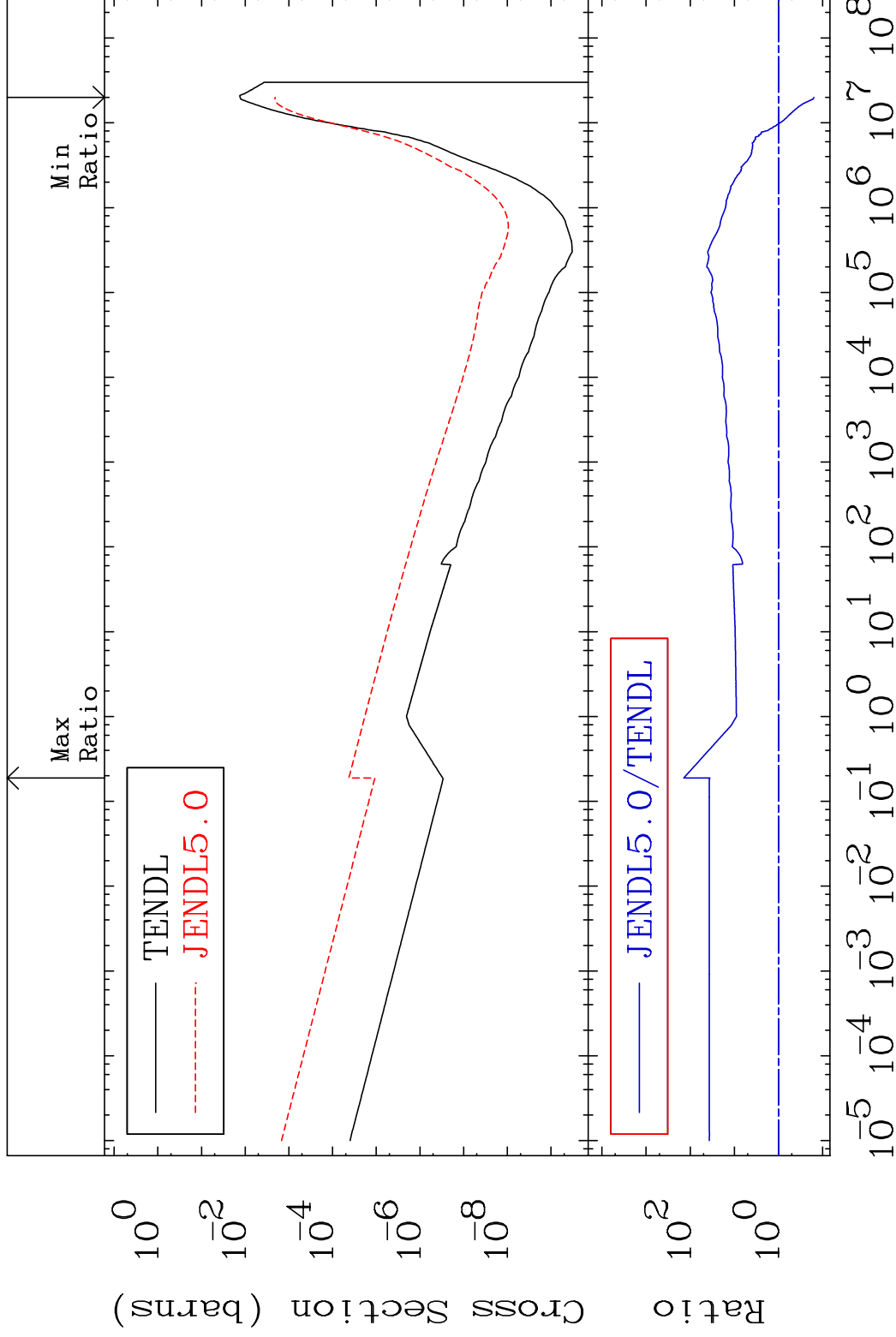
63-Eu-154

MAT 6334

(n, α)

63-Eu-154

Cross Section -84.40 To 9999. %

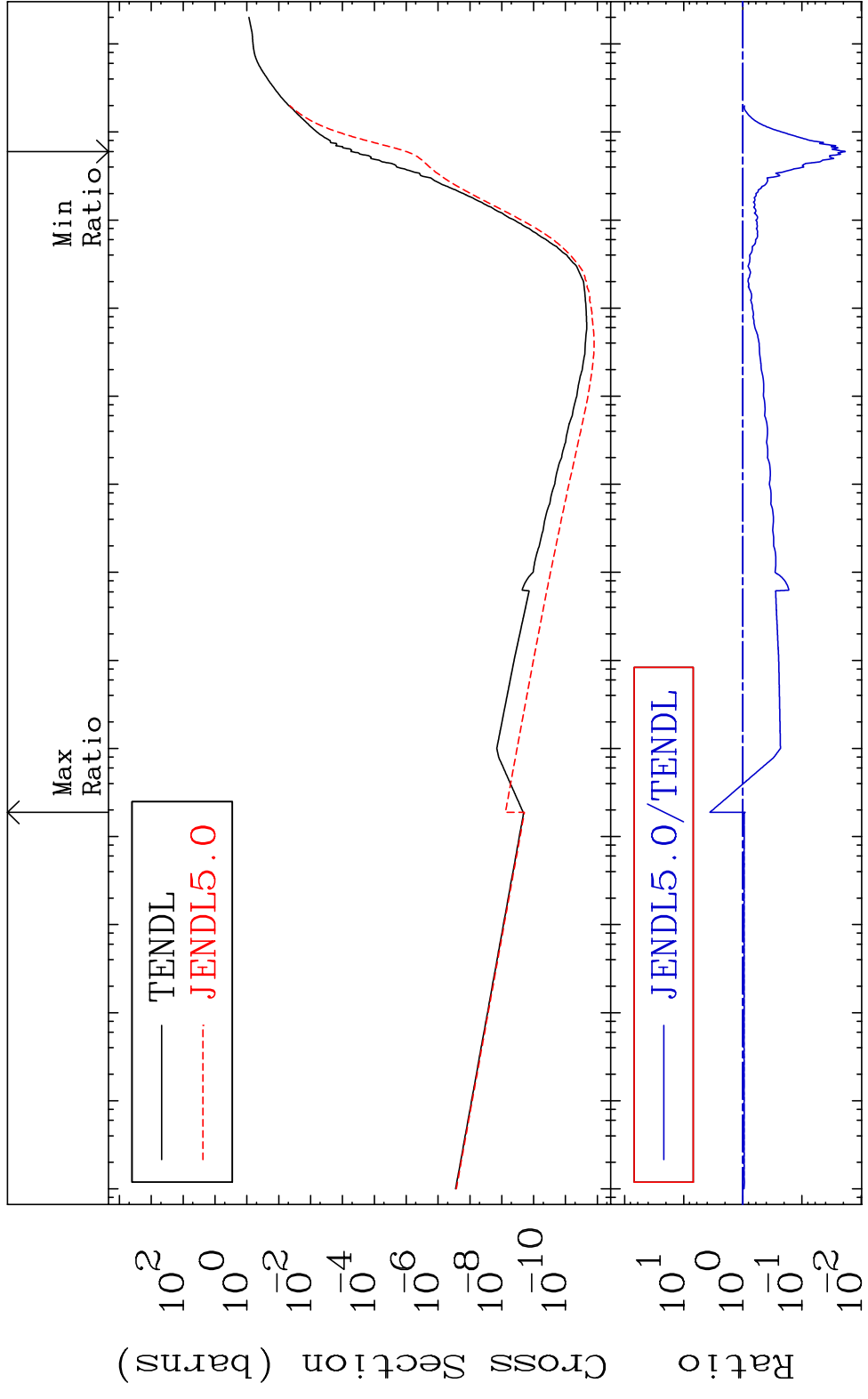


48

Incident Energy (eV)

63-Eu-154

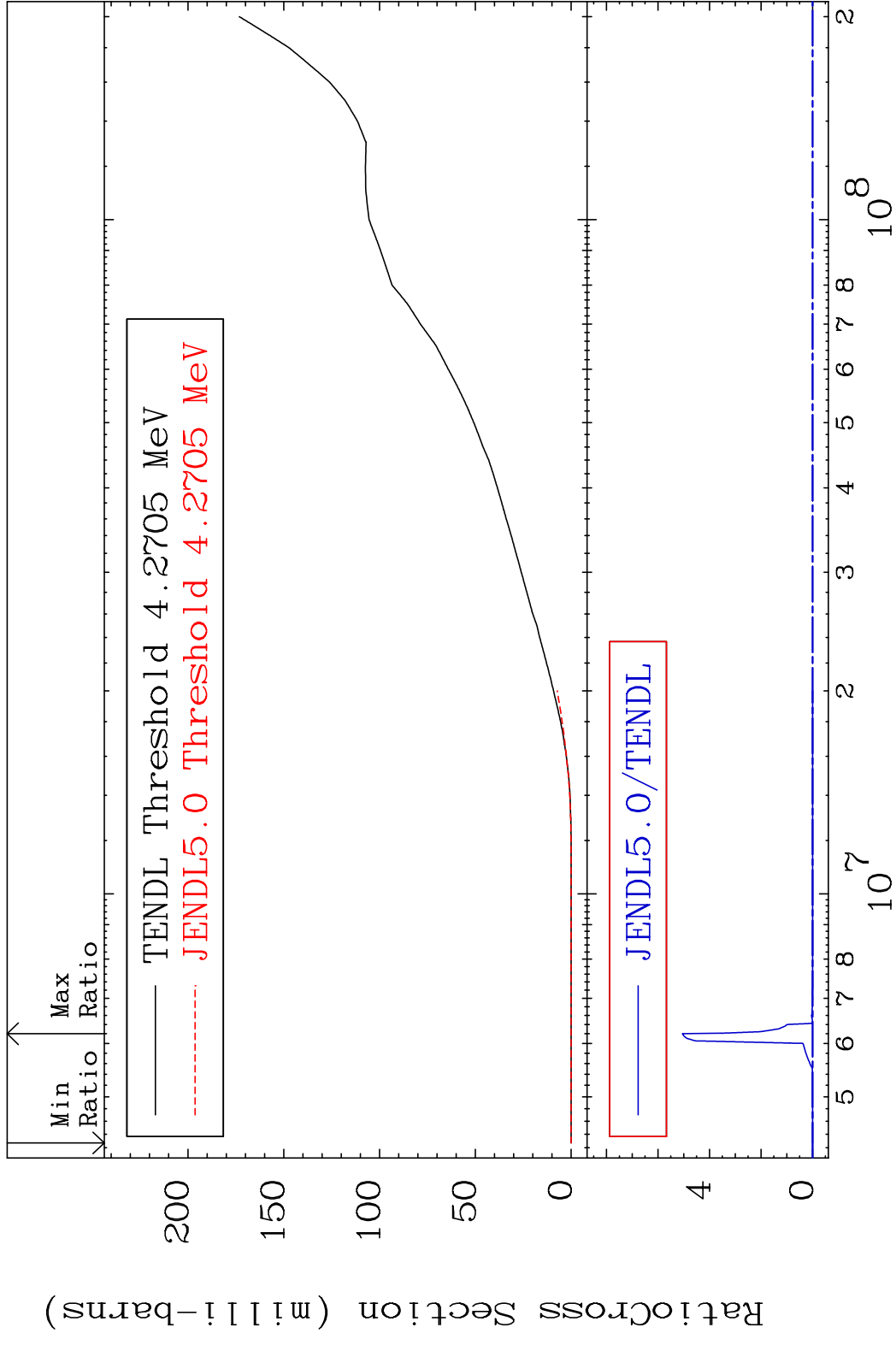
MAT 6334 Hydrogen Production 63-Eu-154
 Cross Section -98.15 To 262.3 %



MAT 6334

Deuterium Production 63-Eu-154

Cross Section -100.0 To 9999. %

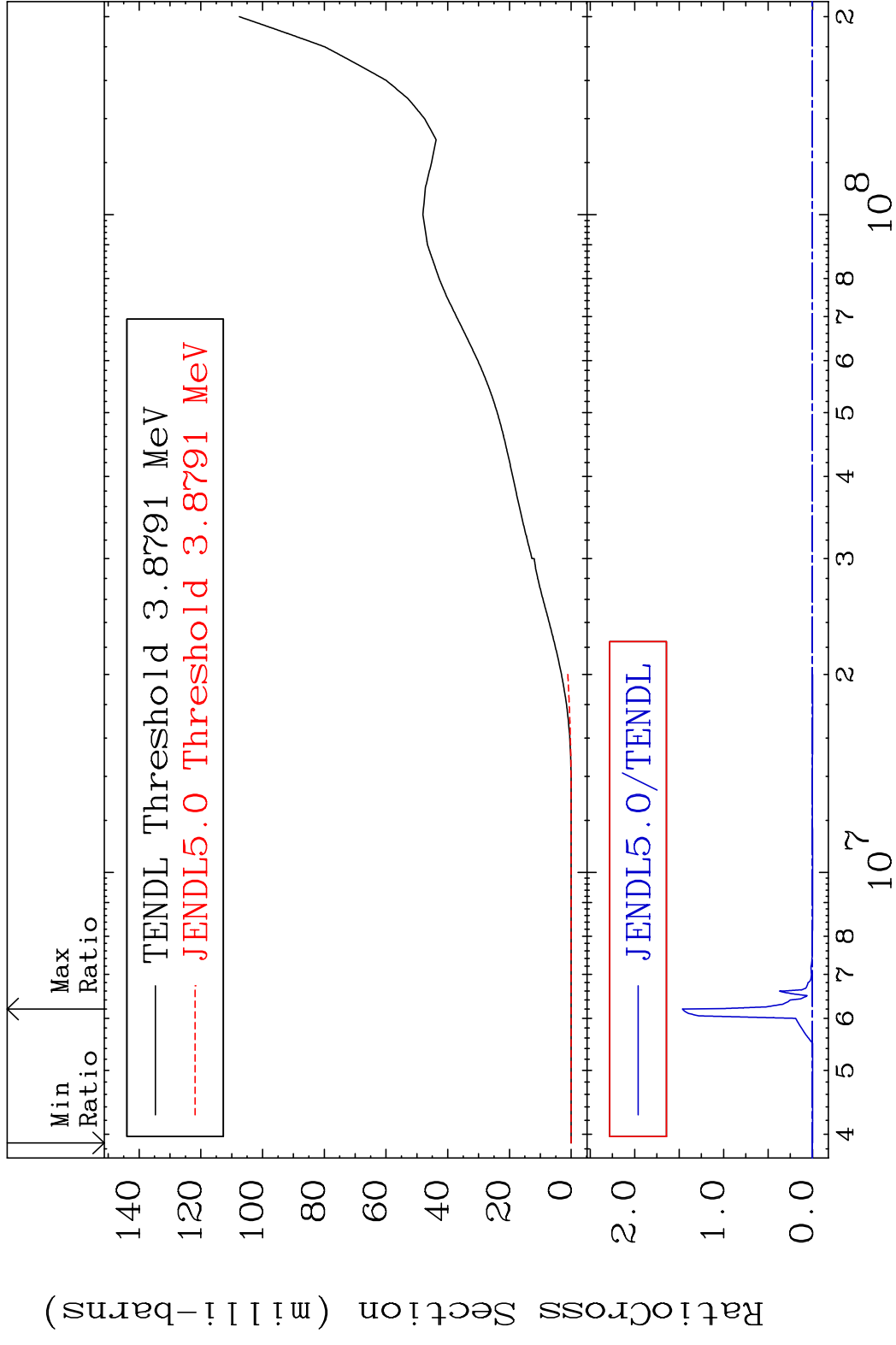


50

Incident Energy (eV)

63-Eu-154

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

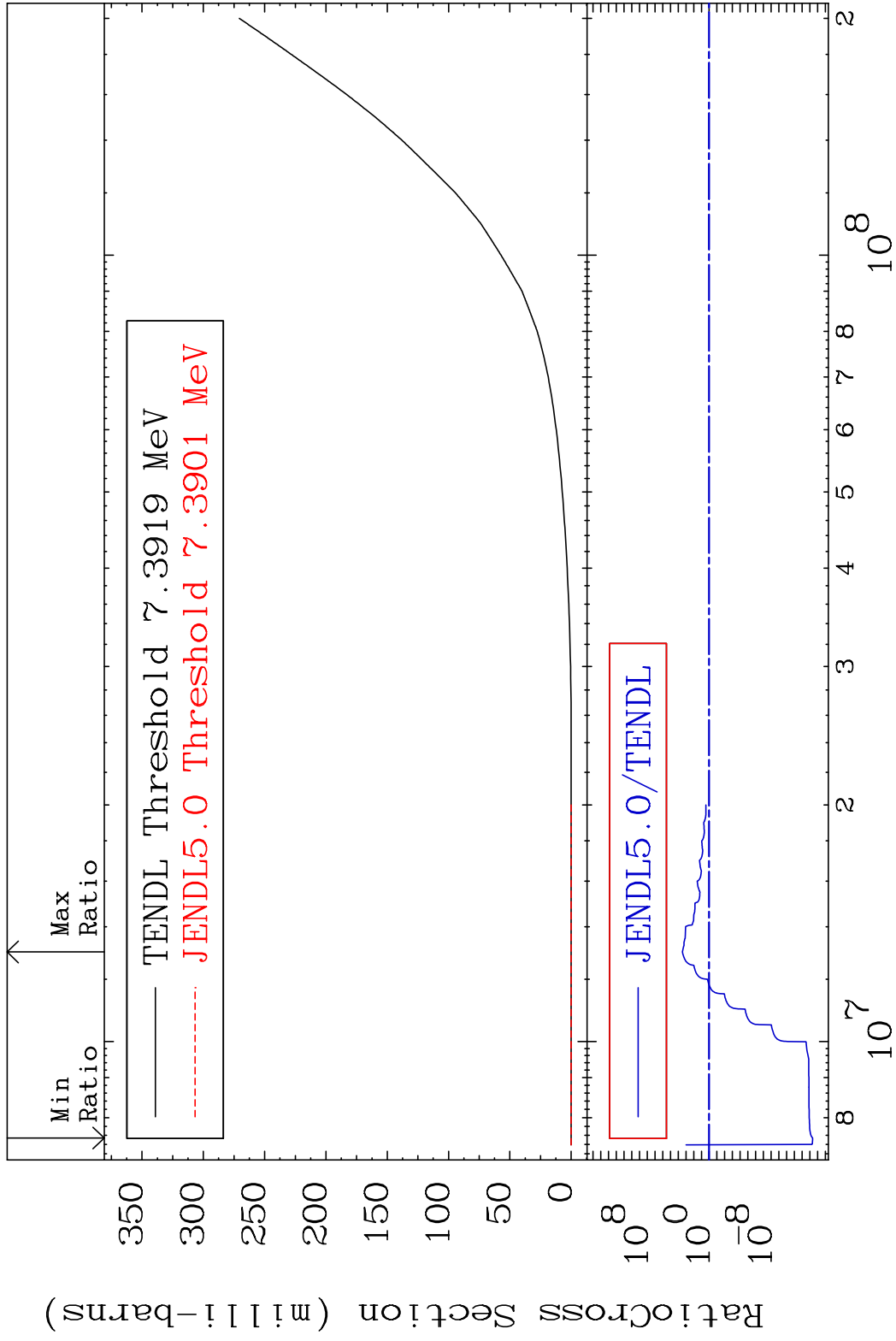


MAT 6334

He-3 Production

63-Eu-154

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

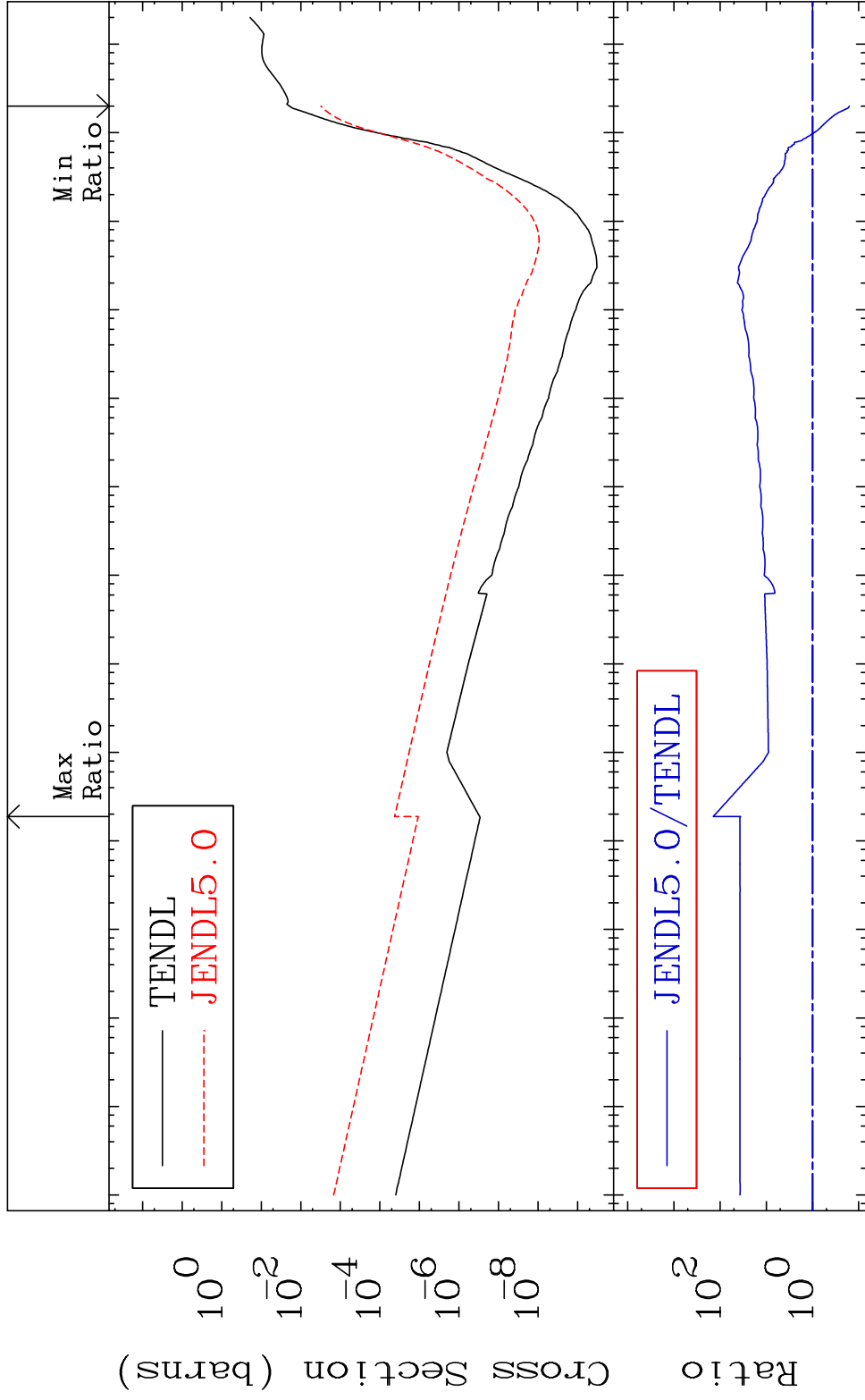
63-Eu-154

MAT 6334

He-4 Production

63-Eu-154

Cross Section -83.99 To 9999. %



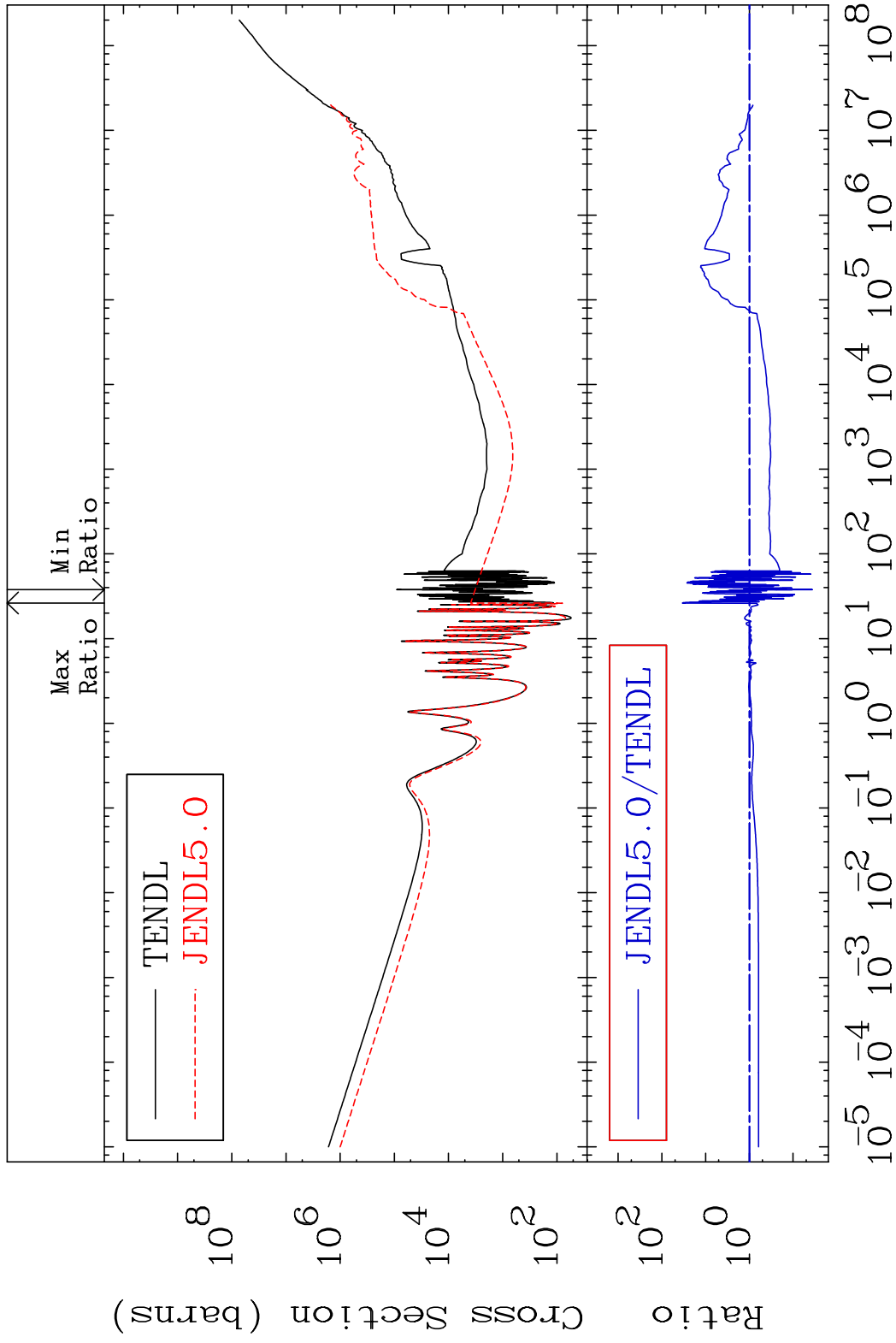
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

53

Incident Energy (eV)

63-Eu-154

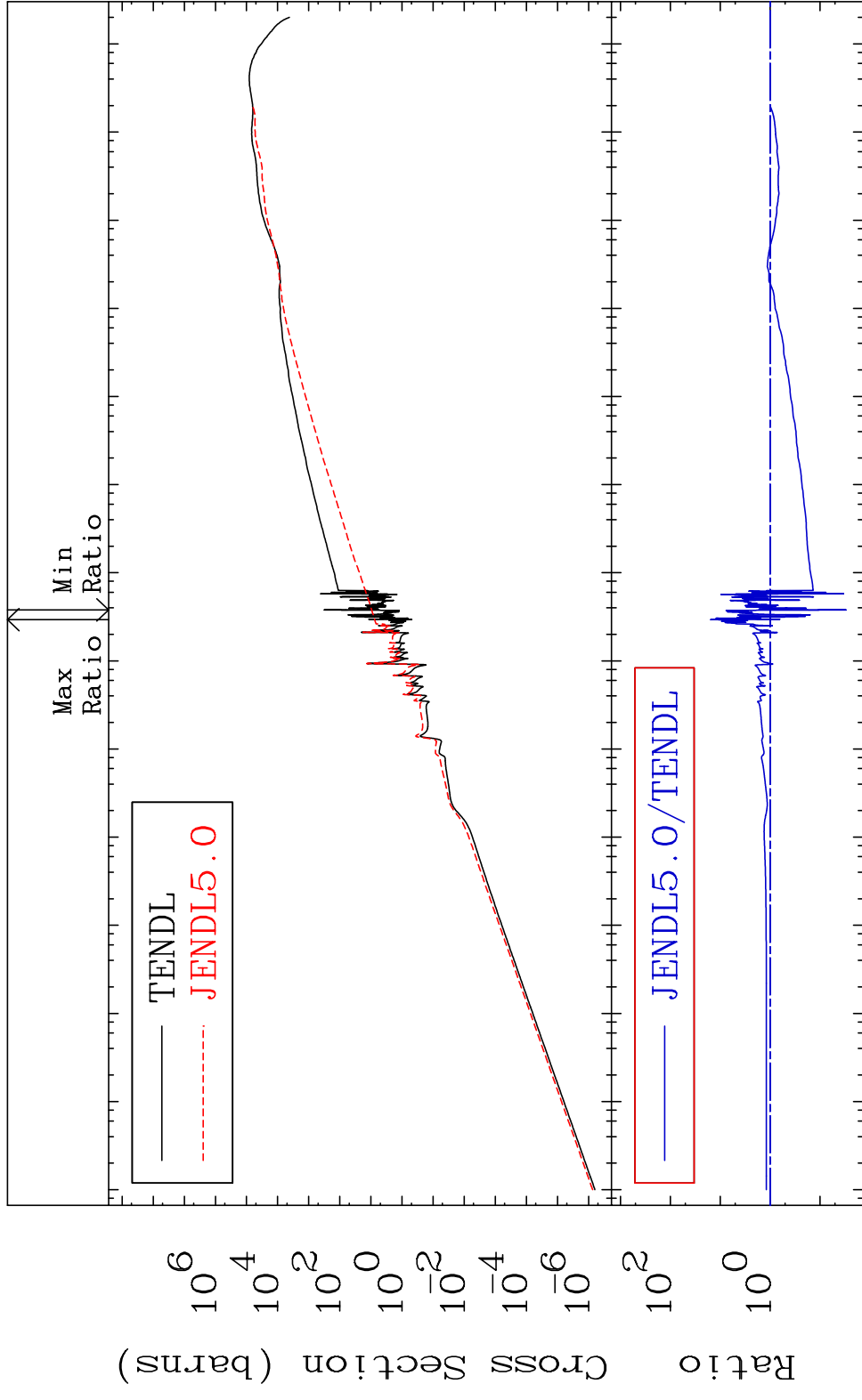
MAT 6334 Kerma total (eV-barns) 63-Eu-154
 Cross Section -96.41 To 3293. %



54 Incident Energy (eV) 63-Eu-154

MAT 6334

Kerma elastic Cross Section -97.04 To 1451. %
63-Eu-154



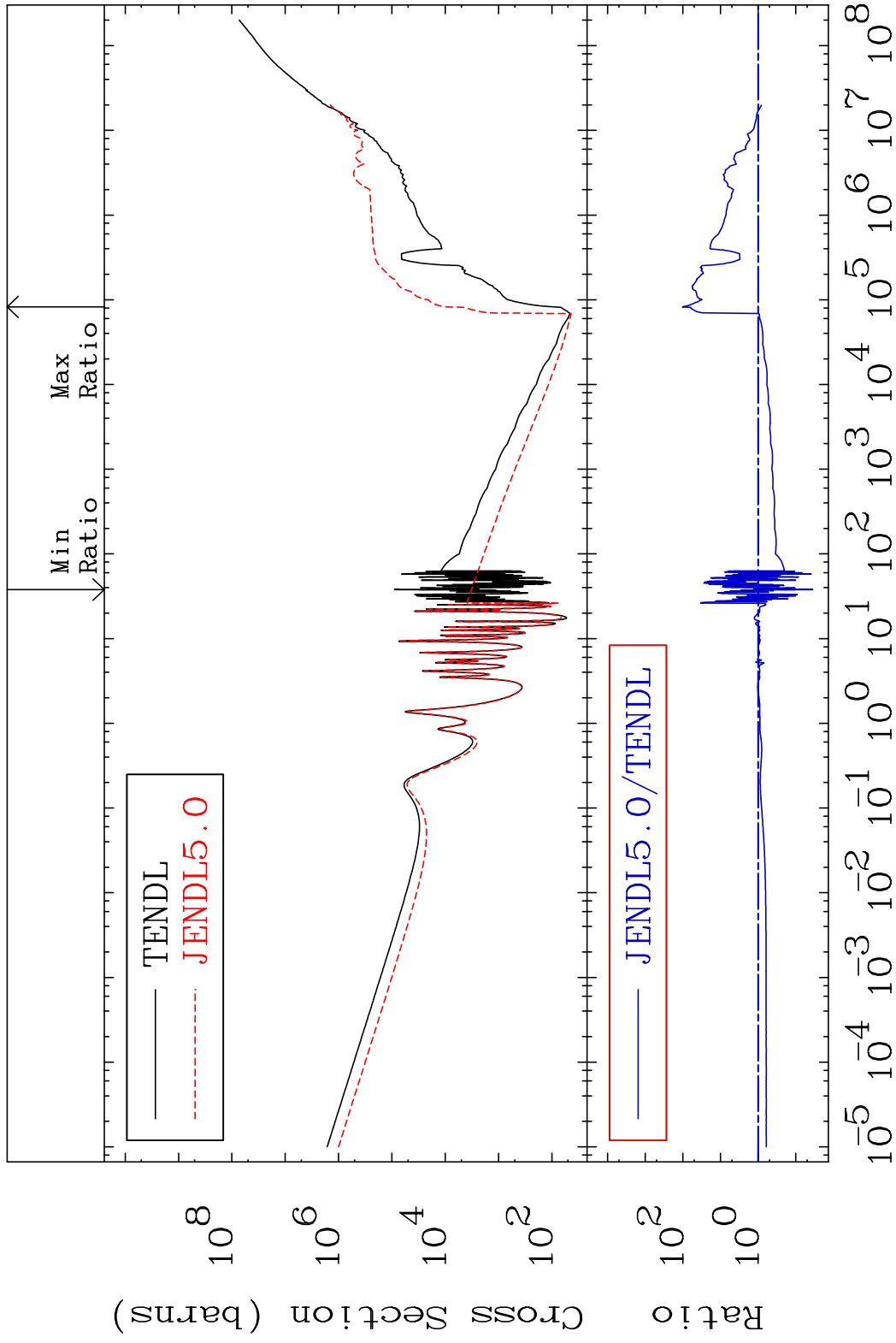
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

55

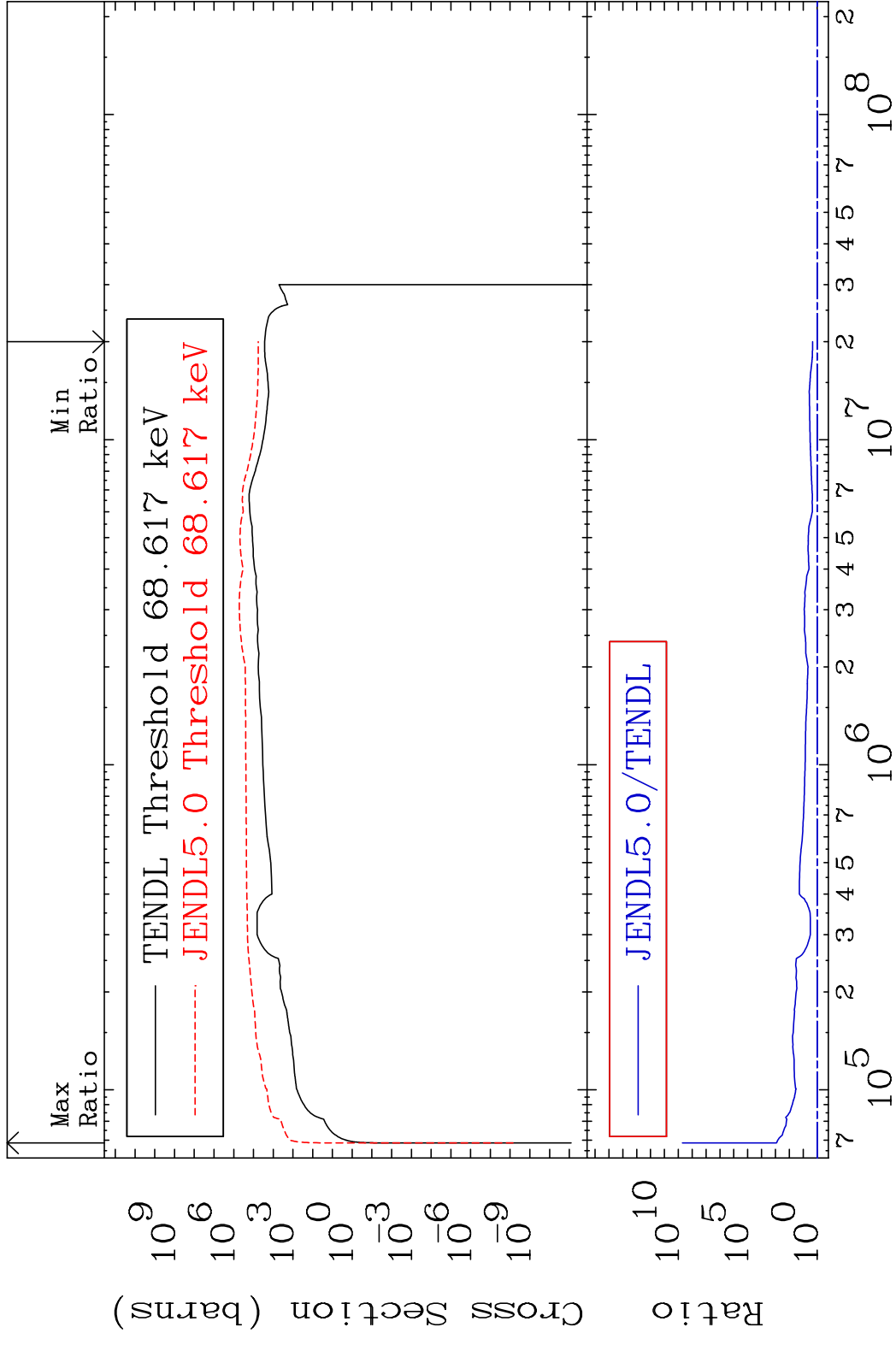
Incident Energy (eV)

63-Eu-154

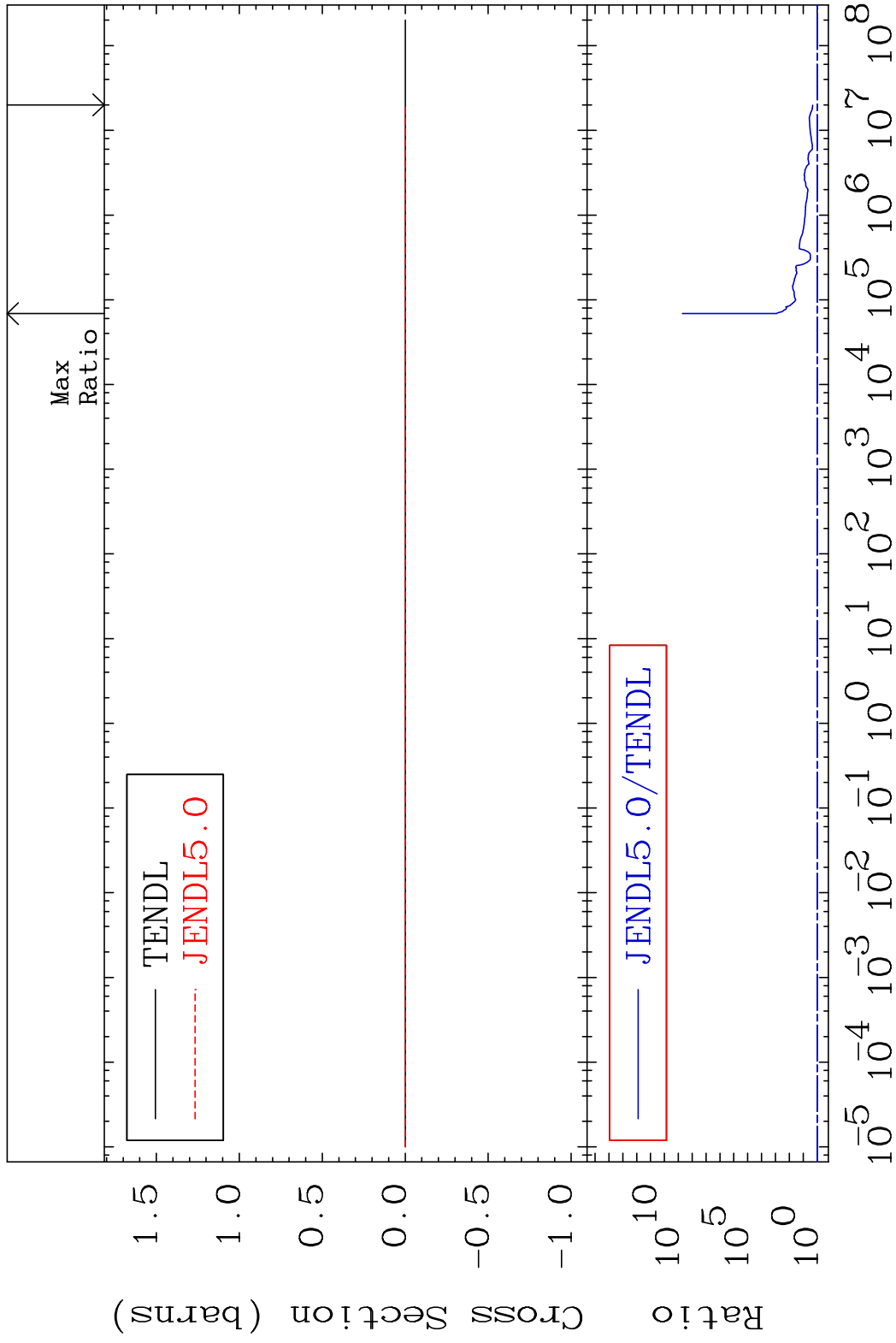
MAT 6334 Kerma non-elastic (all but mt2) 63-Eu-154
 Cross Section -96.41 To 9999. %



MAT 6334 Kerma inelastic (mt51-91) 63-Eu-154
 Cross Section 111.0 To 9999. %

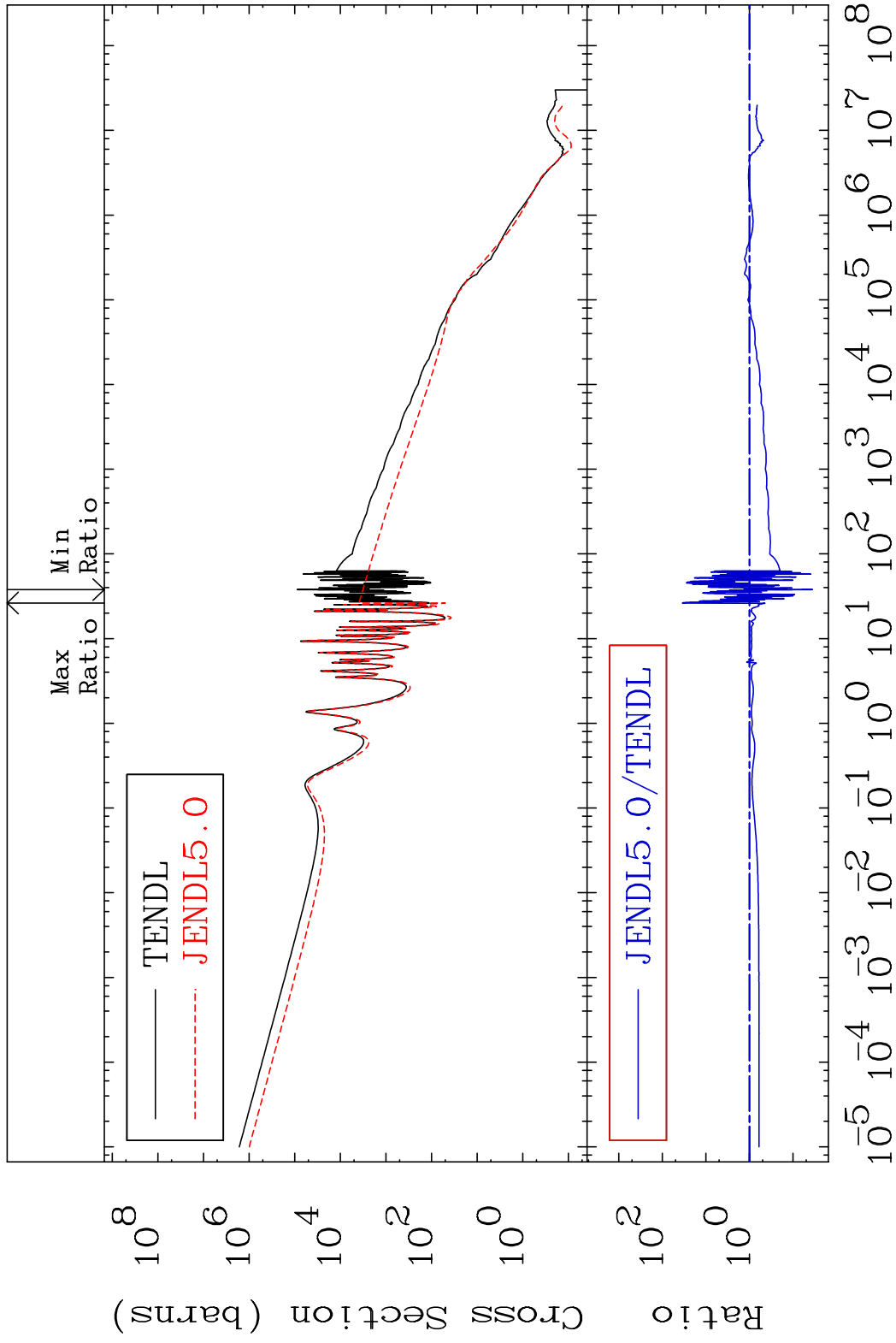


MAT 6334 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-154
 Cross Section 111.0 To 9999. %



MAT 6334

Kerma capture (mt102) 63-Eu-154
Cross Section -96.43 To 3376. %



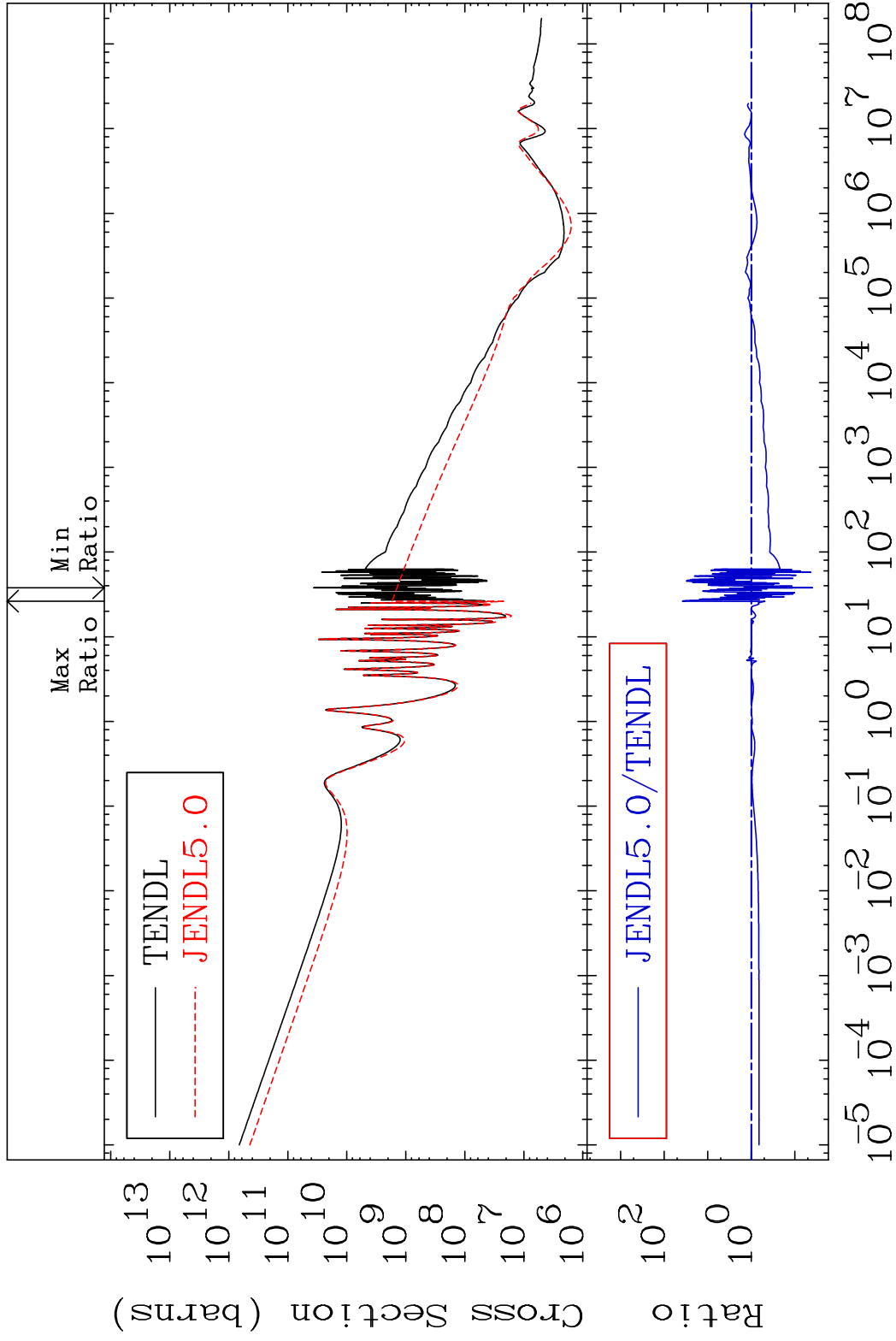
59

Incident Energy (eV)

63-Eu-154

MAT 6334

Total photon (eV-barns) 63-Eu-154
Cross Section -96.09 To 3703. %

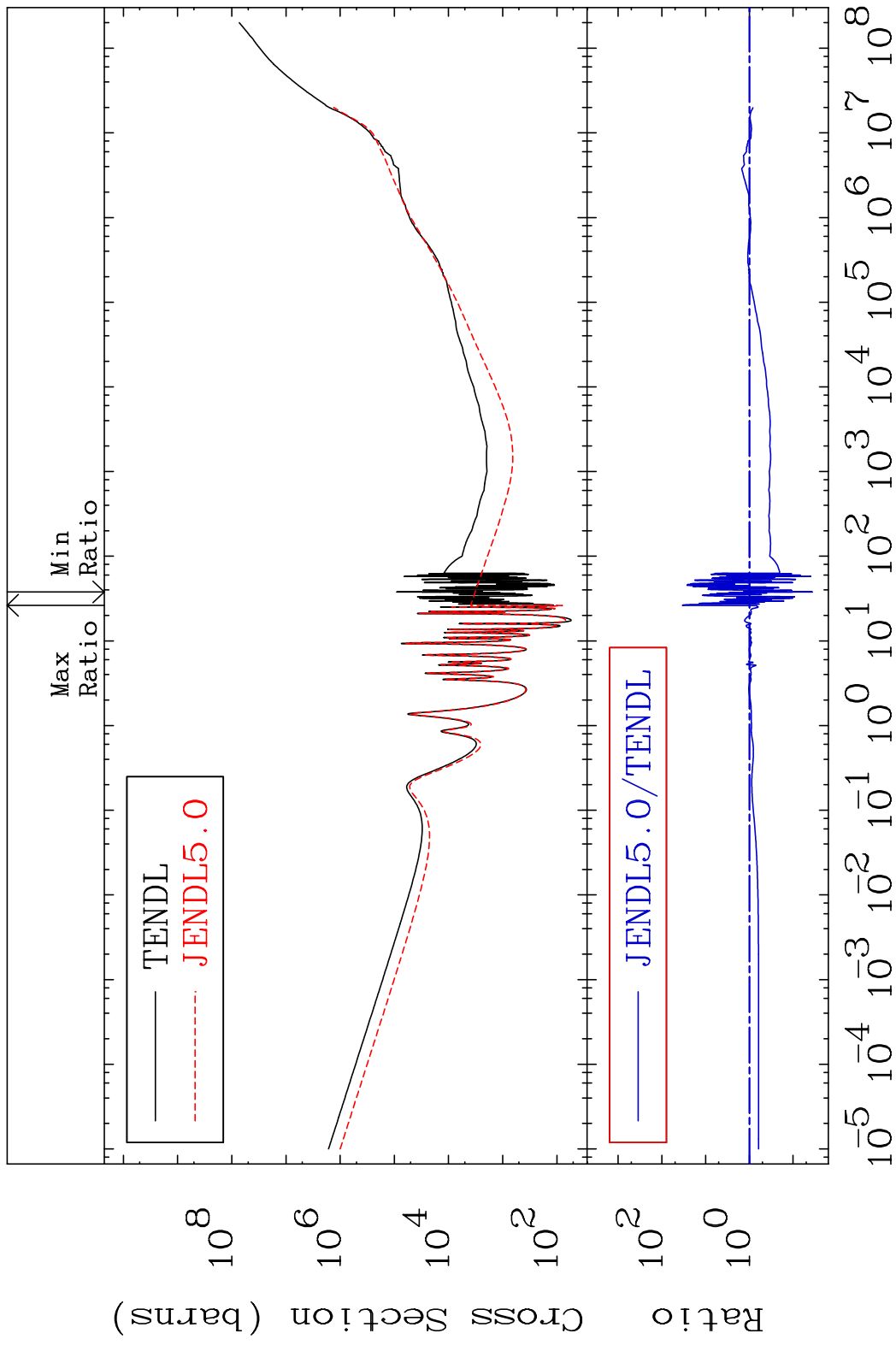


60

Incident Energy (eV)

63-Eu-154

MAT 6334 Total kinematic kerma (high limit) 63-Eu-154
 Cross Section -96.41 To 3293. %

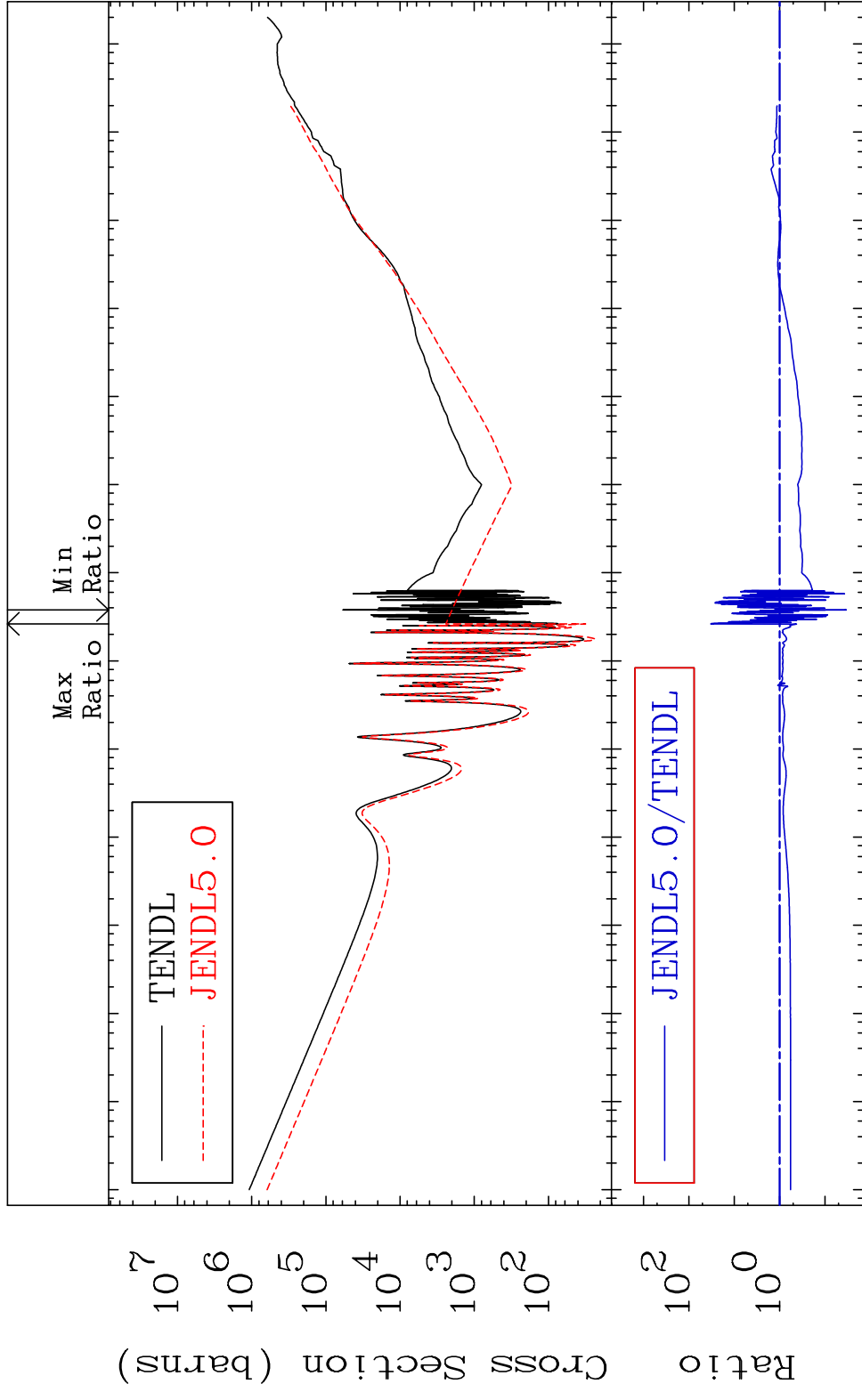


MAT 6334

Dpa total (eV-barns)

63-Eu-154

Cross Section -96.62 To 3192. %



62

Incident Energy (eV)

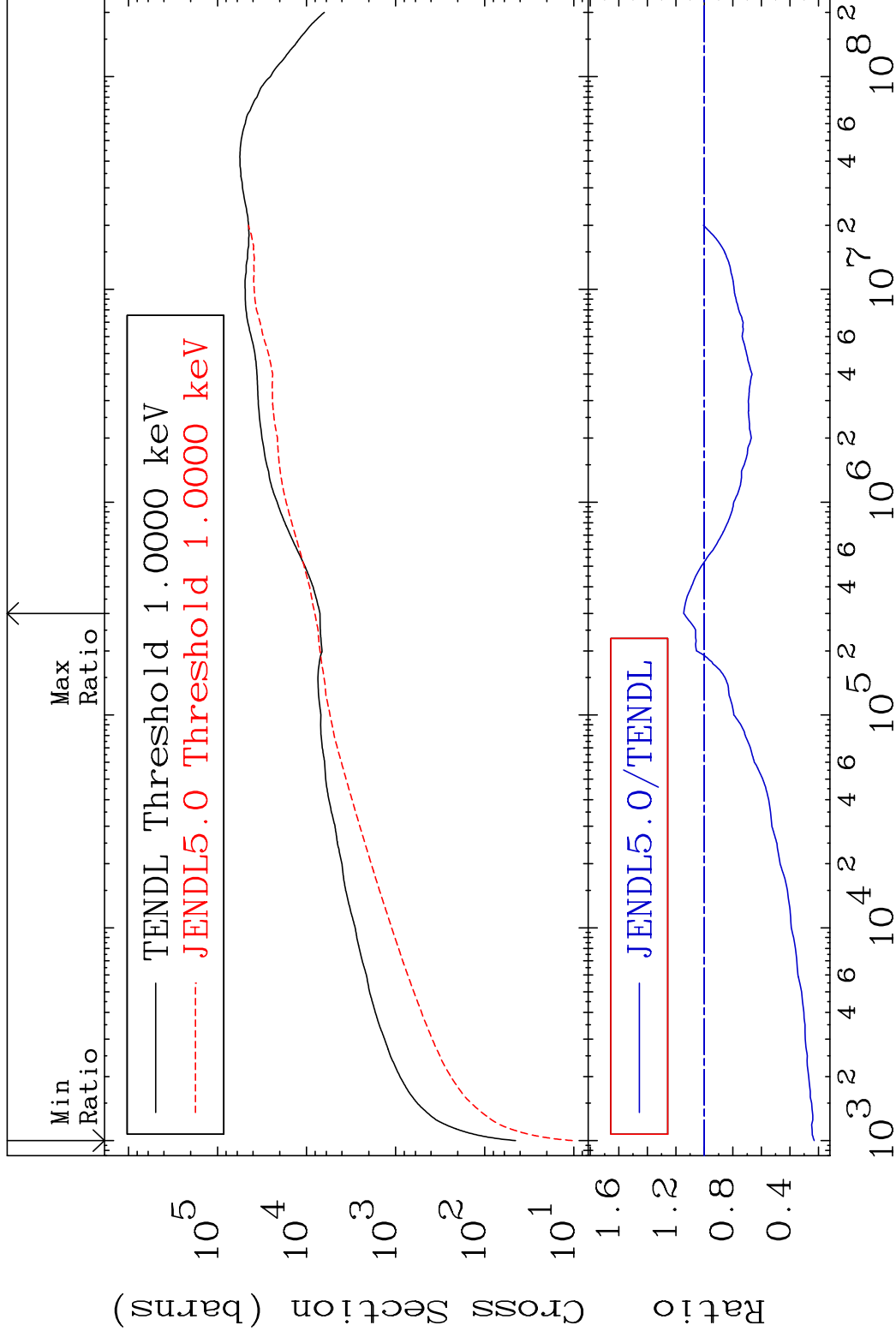
63-Eu-154

MAT 6334

Dpa elastic (mt2)

63-Eu-154

Cross Section -76.99 To 14.51 %

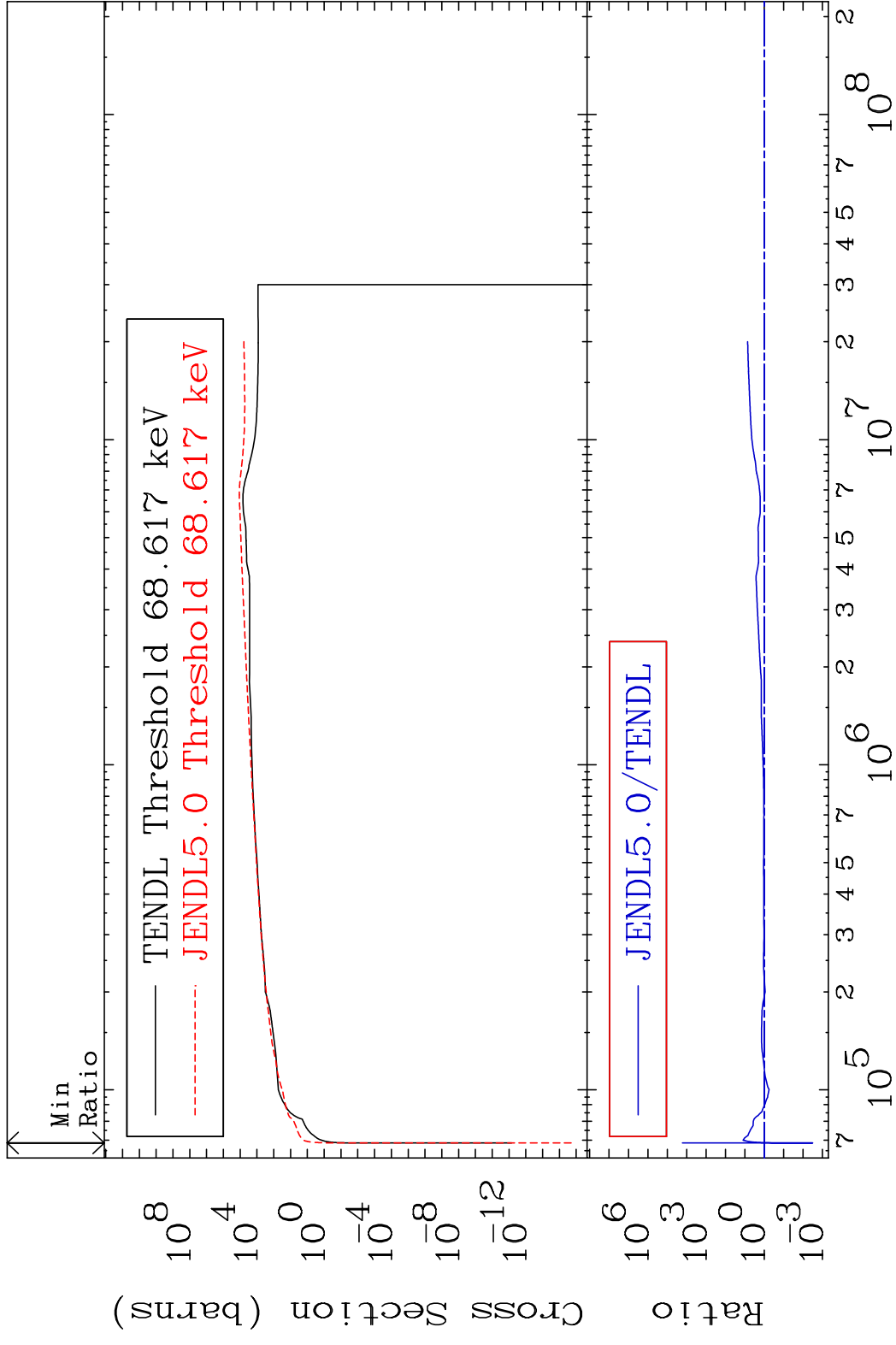


63

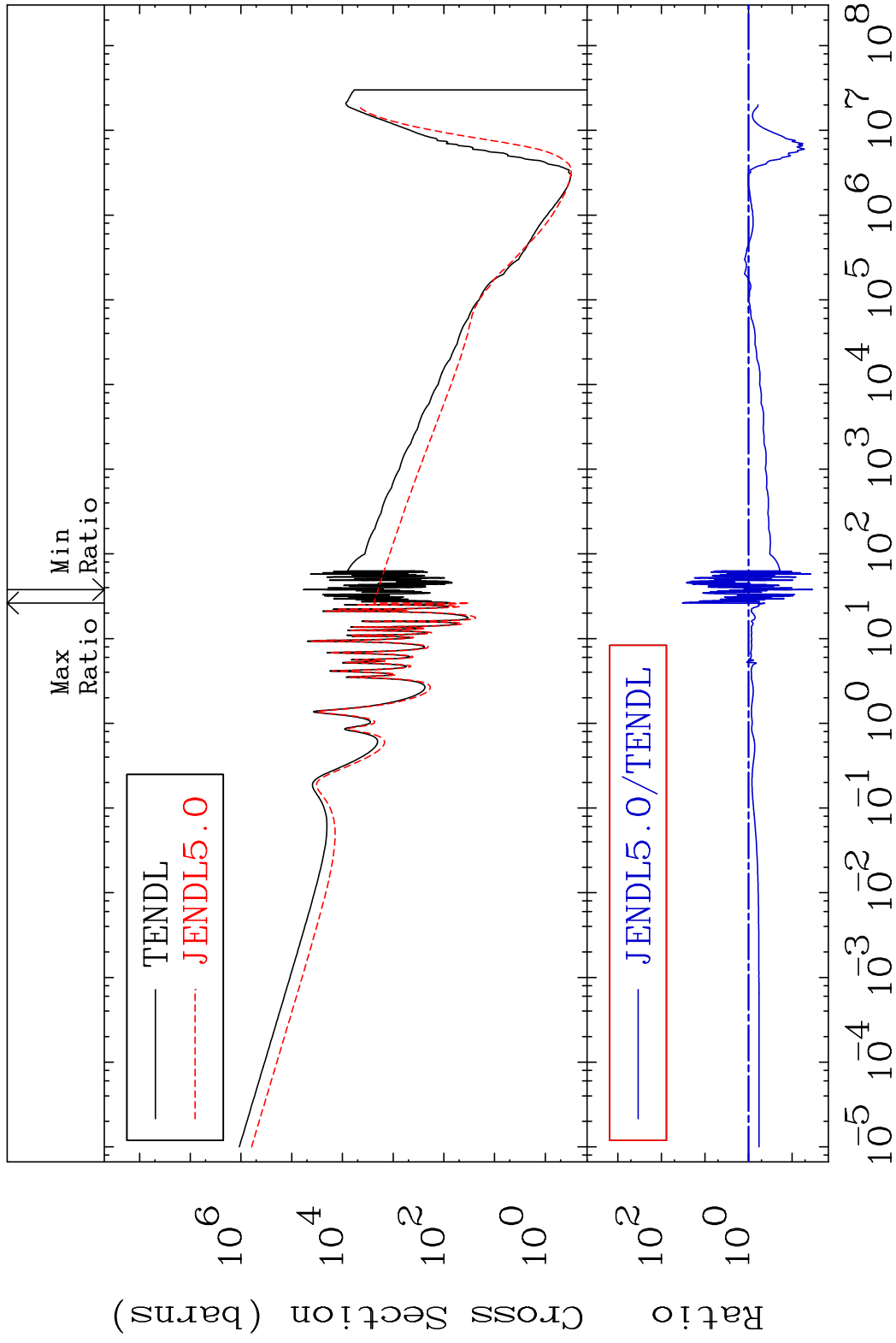
Incident Energy (eV)

63-Eu-154

MAT 6334 Dpa inelastic (mt51-91) 63-Eu-154
 Cross Section -99.68 To 9999. %

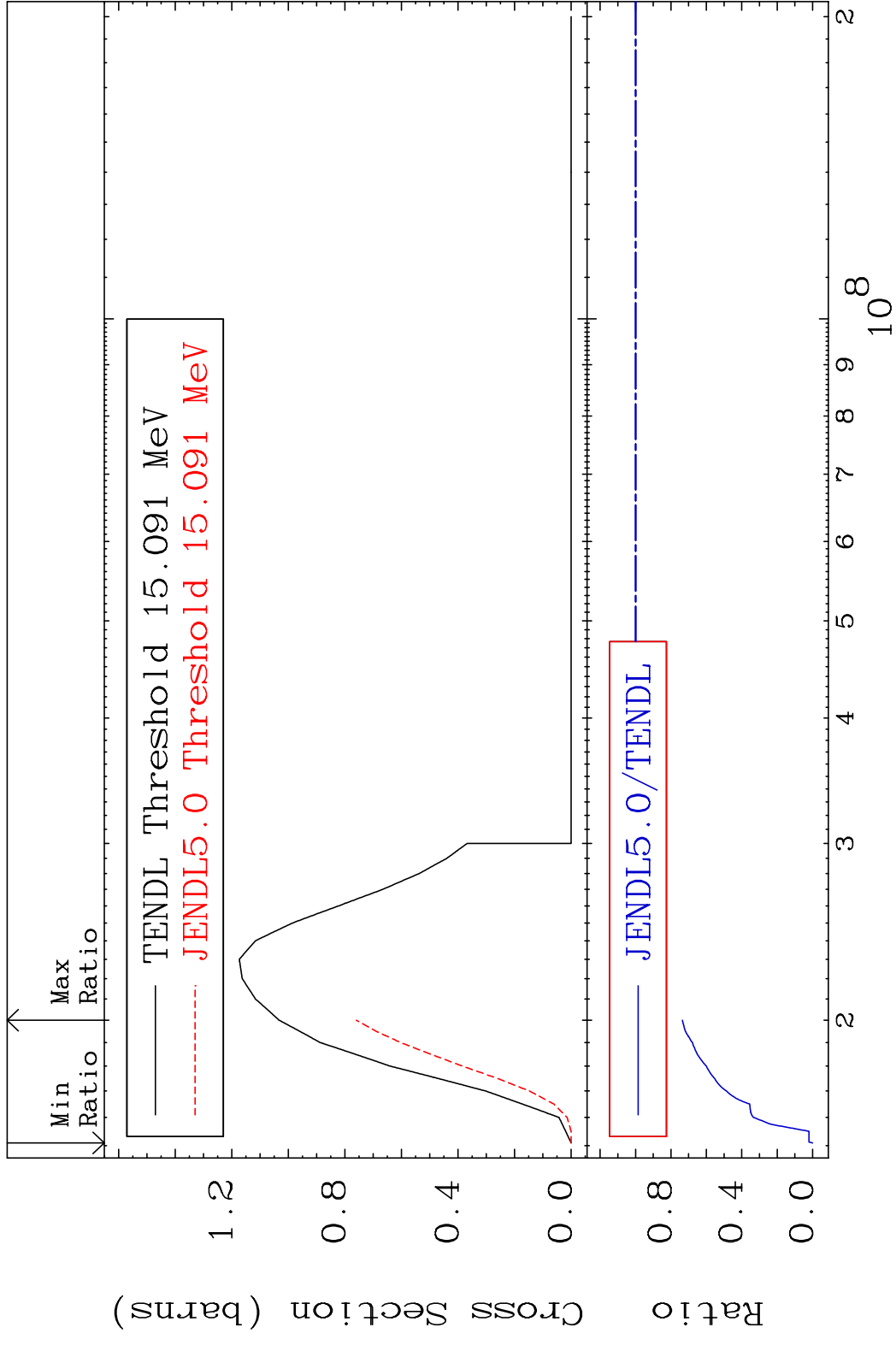


MAT 6334 Dpa disappearance (mt102 -120) 63-Eu-154
 Cross Section -96.62 To 3192. %



65 Incident Energy (eV) 63-Eu-154

MAT 6334 (n,3n):63-Eu-152g 63-Eu-154
 Radionuclide Production Cross Section Ratio -26.44%



MAT 6334 (n, 3n):63-Eu-152m1 63-Eu-154
 Radionuclide Production Cross Section 0.000 %

