

Program Complot
(Version 2021-1)

by

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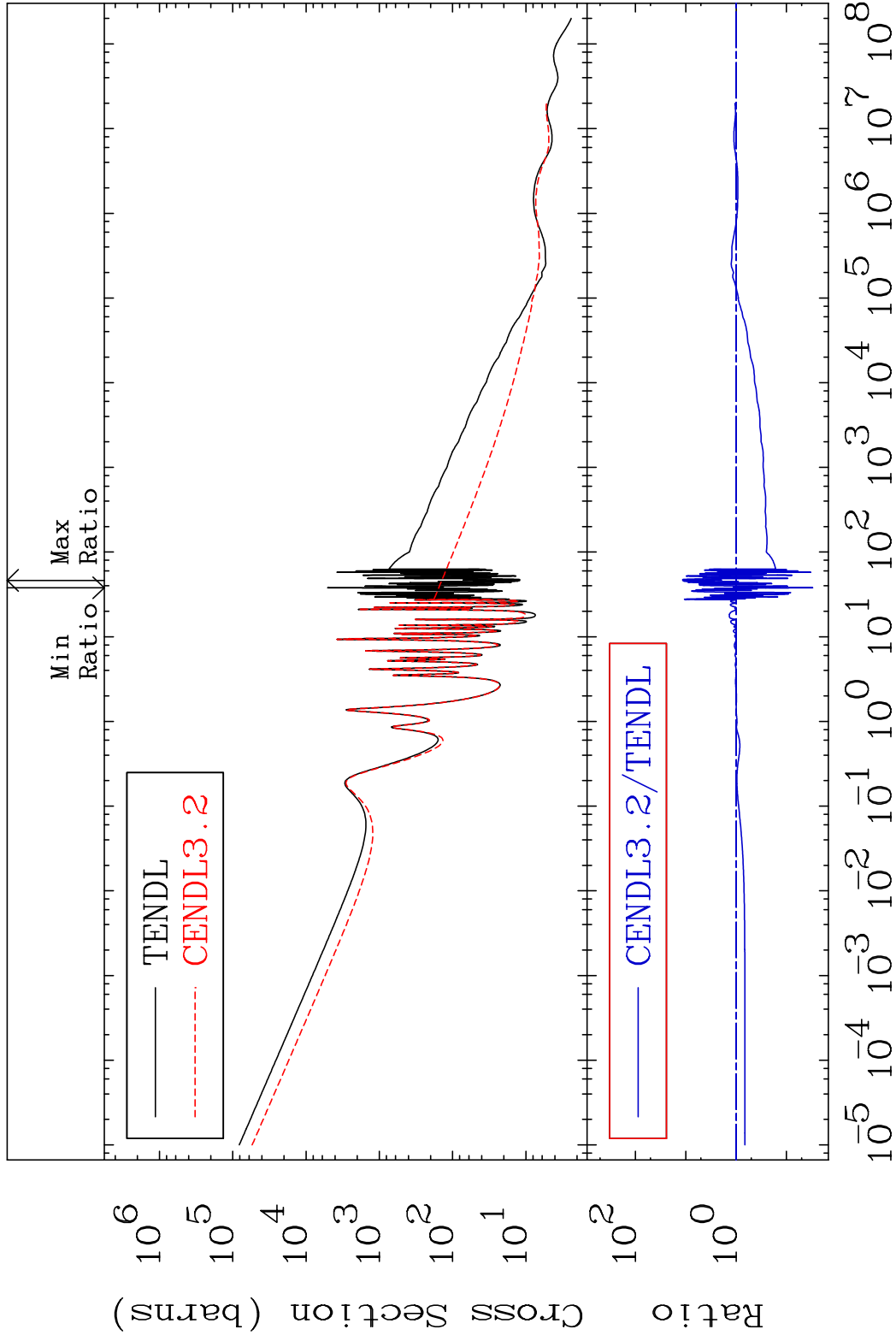
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6334

Total Cross Section -96.96 To 1066. %

63-Eu-154



1

Incident Energy (eV)

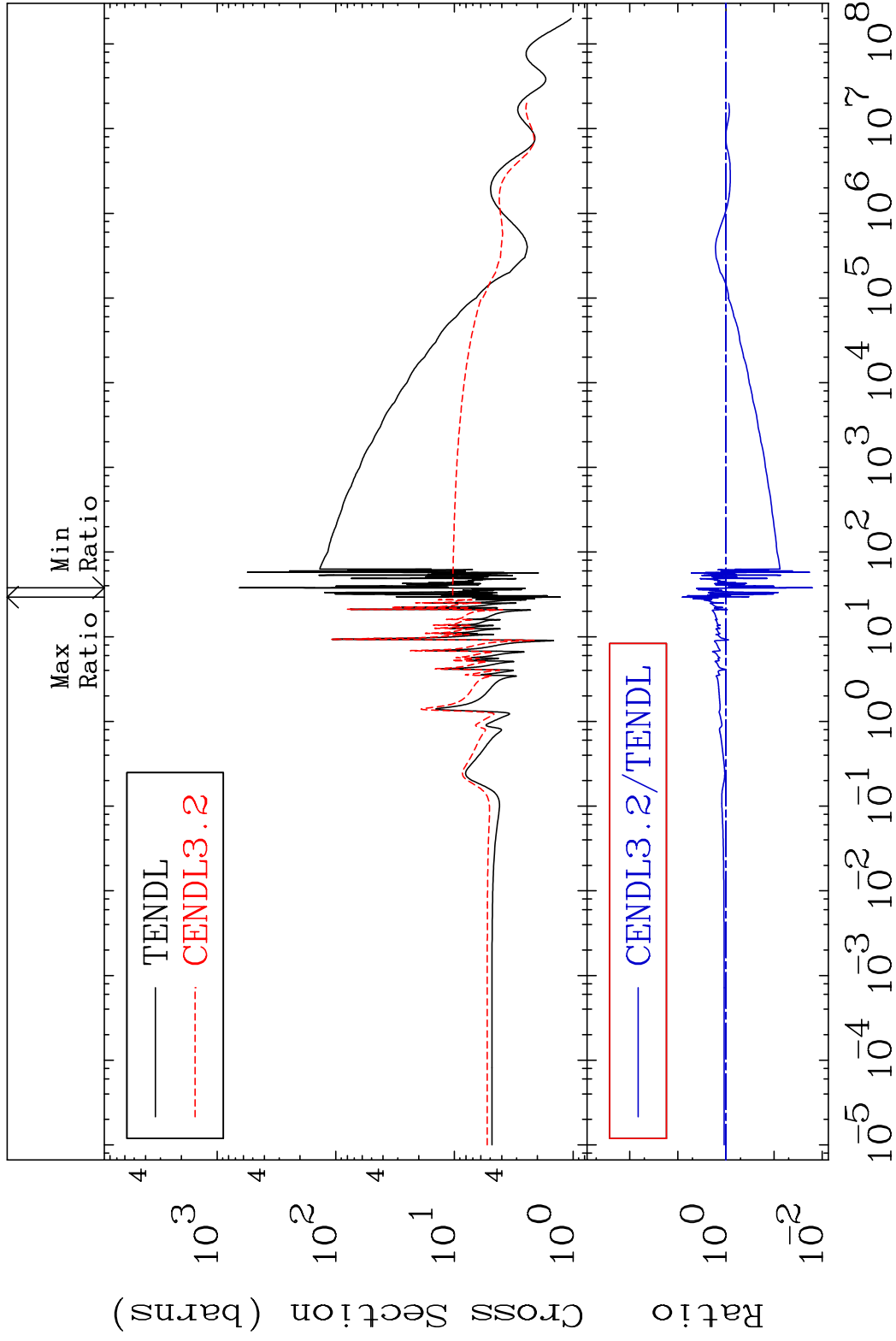
63-Eu-154

MAT 6334

Elastic

63-Eu-154

Cross Section -98.41 To 707.4 %

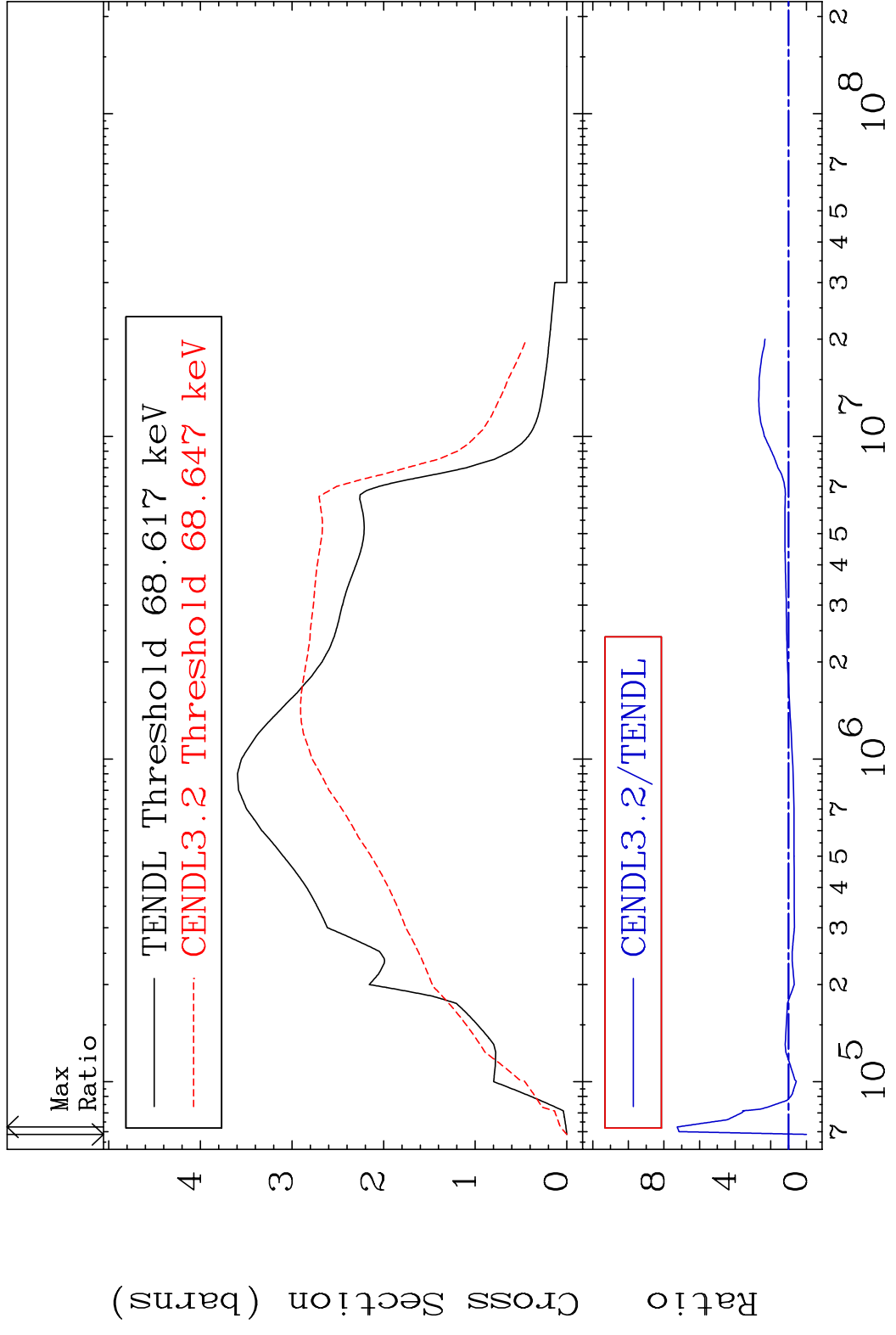


2

Incident Energy (eV)

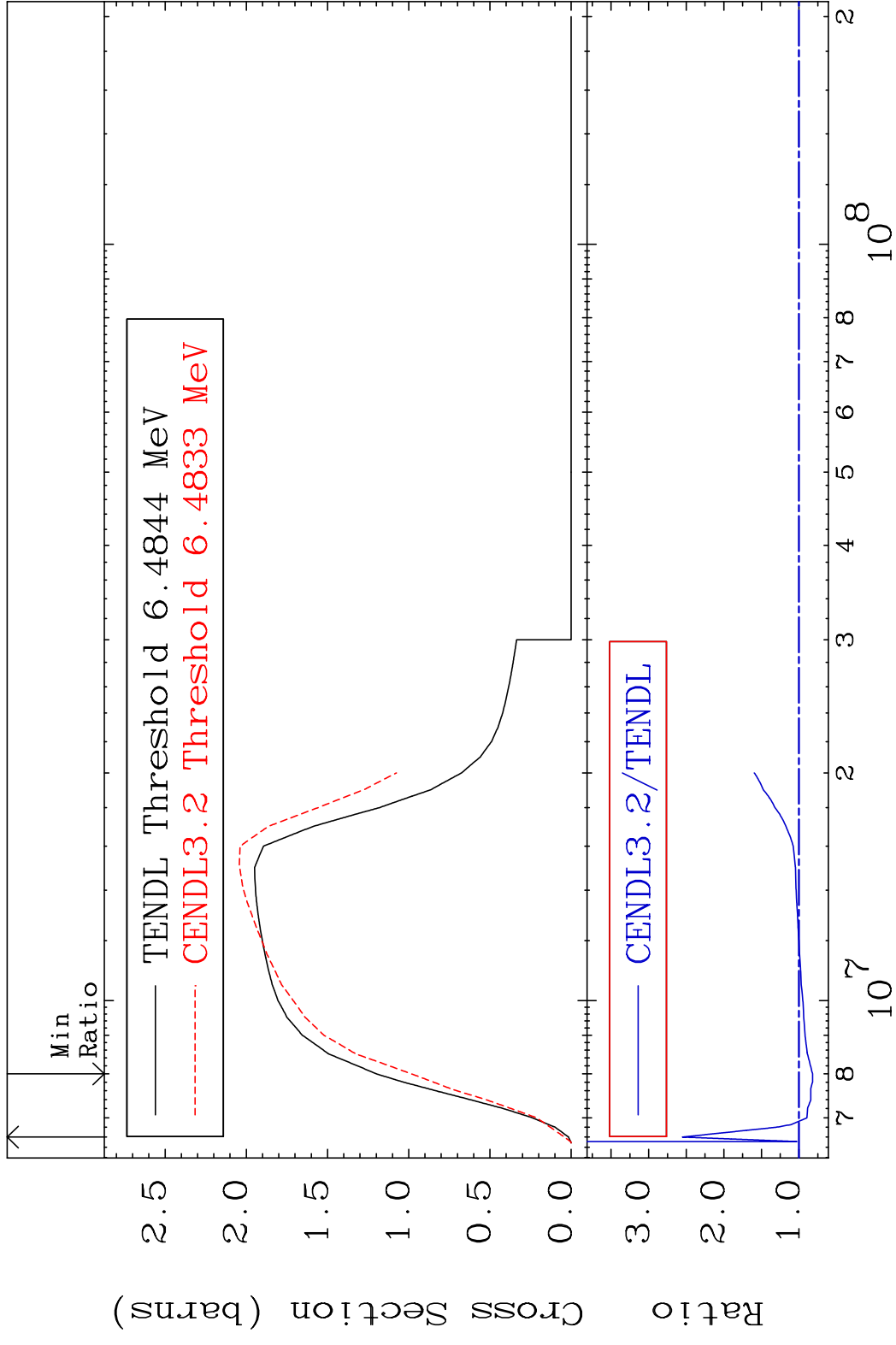
63-Eu-154

MAT 6334 Inelastic 63-Eu-154
 Cross Section -100.0 To 625.8 %



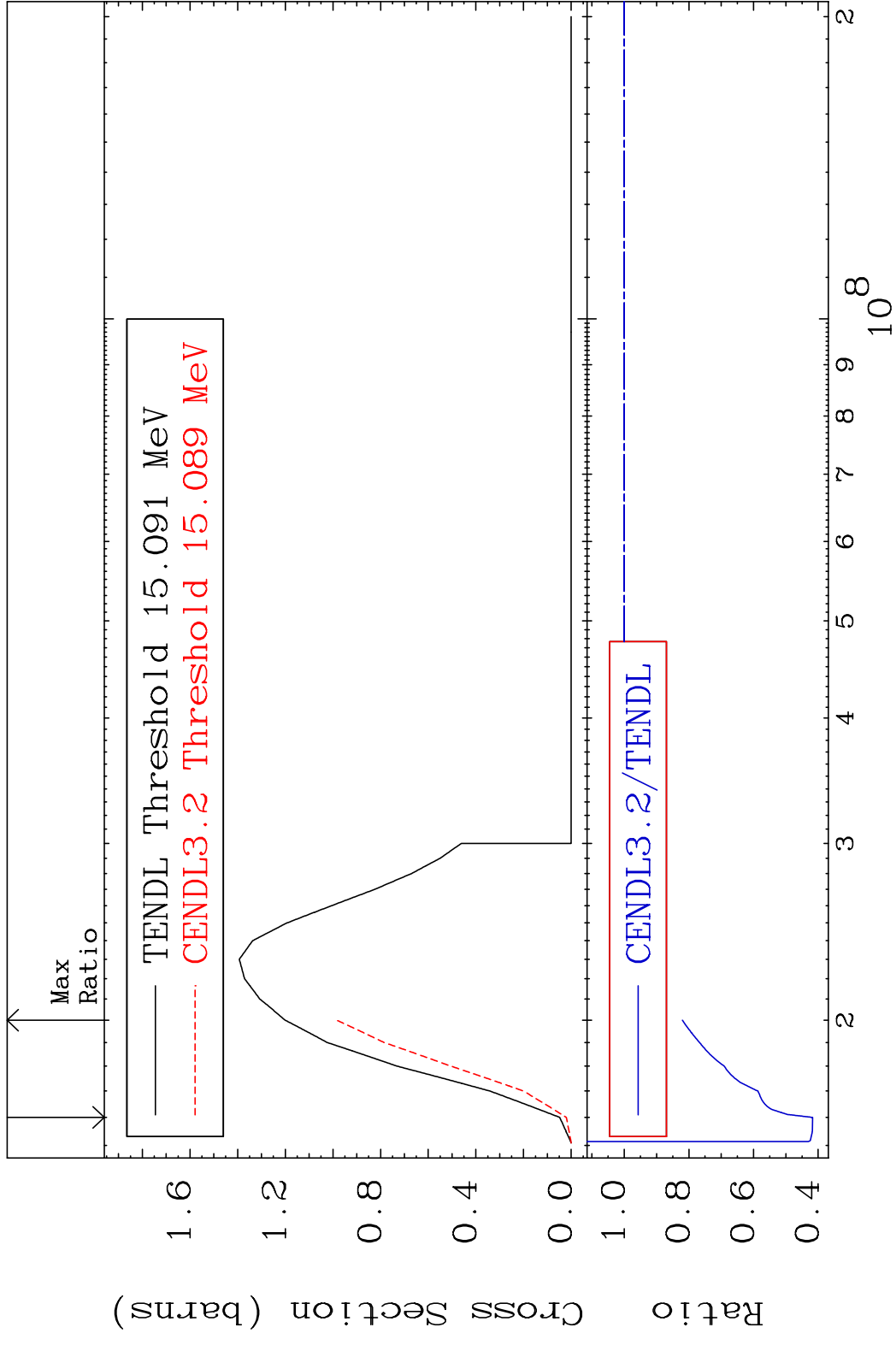
3 Incident Energy (eV) 63-Eu-154

MAT 6334 (n,2n) 63-Eu-154
 Cross Section -18.04 To 155.2 %



4 Incident Energy (eV) 63-Eu-154

MAT 6334 (n,3n) 63-Eu-154
 Cross Section -58.26 To -17.98%

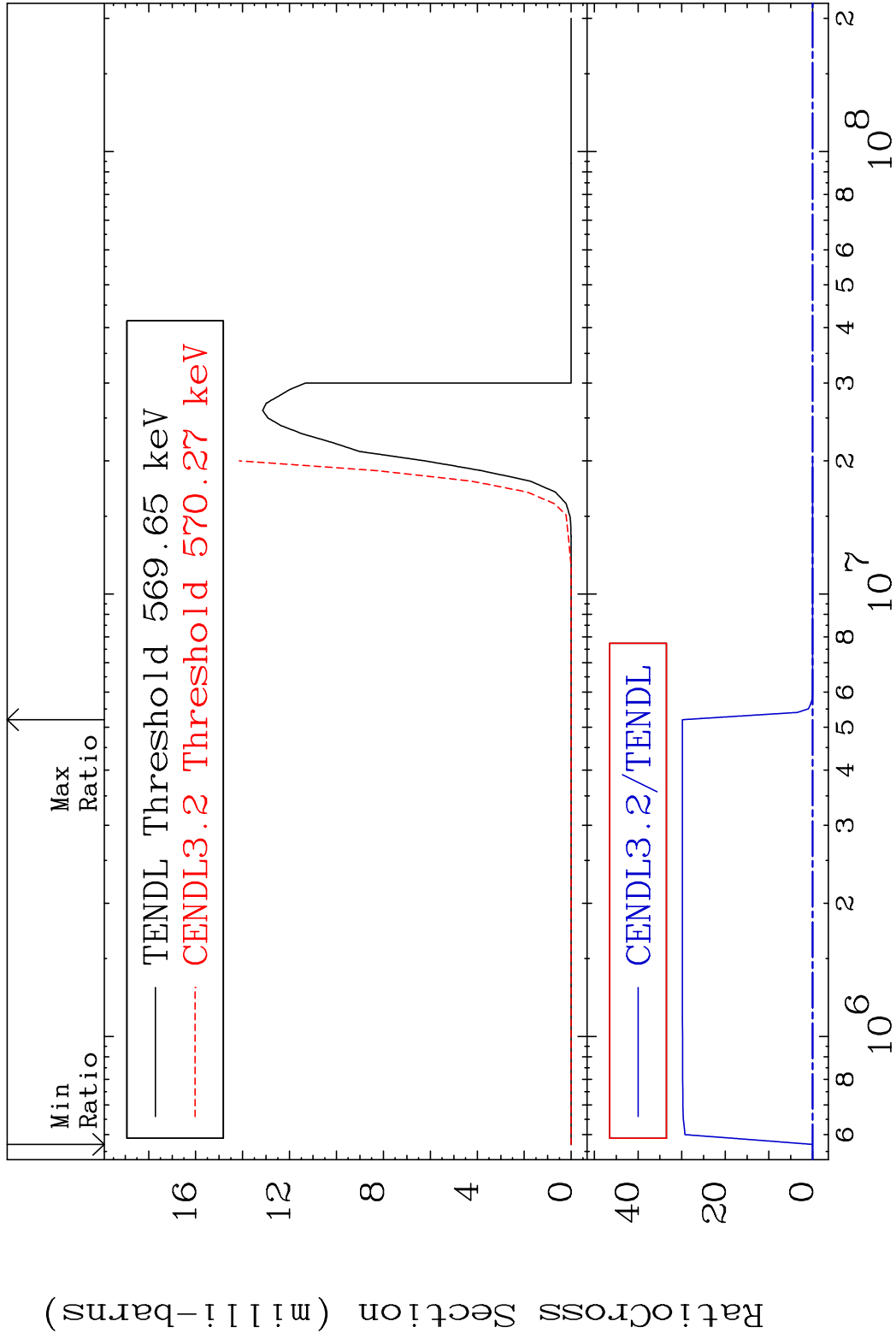


MAT 6334

(n, n') α

63-Eu-154

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

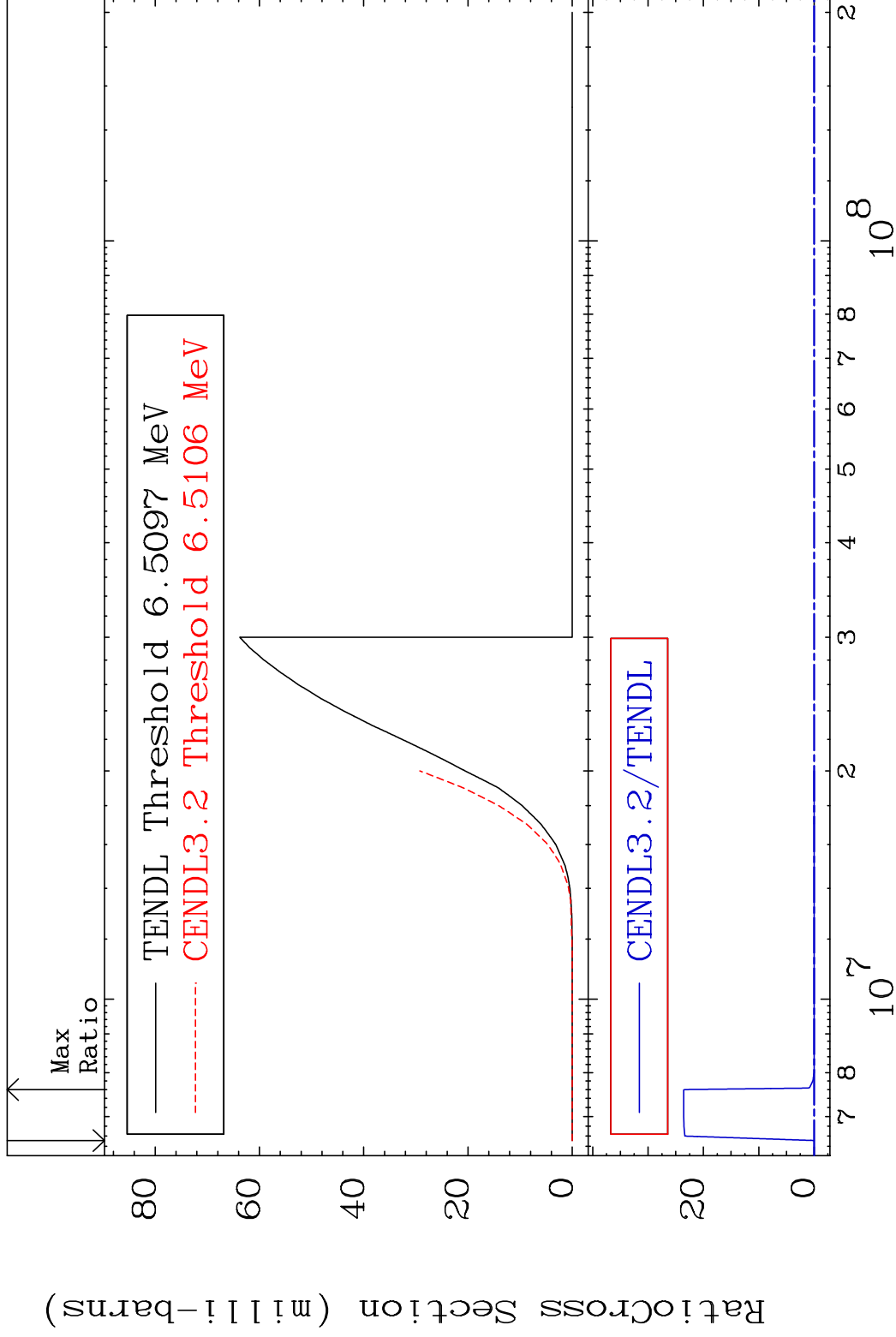
63-Eu-154

MAT 6334

(n, n') p

63-Eu-154

Cross Section -100.0 To 9999. %

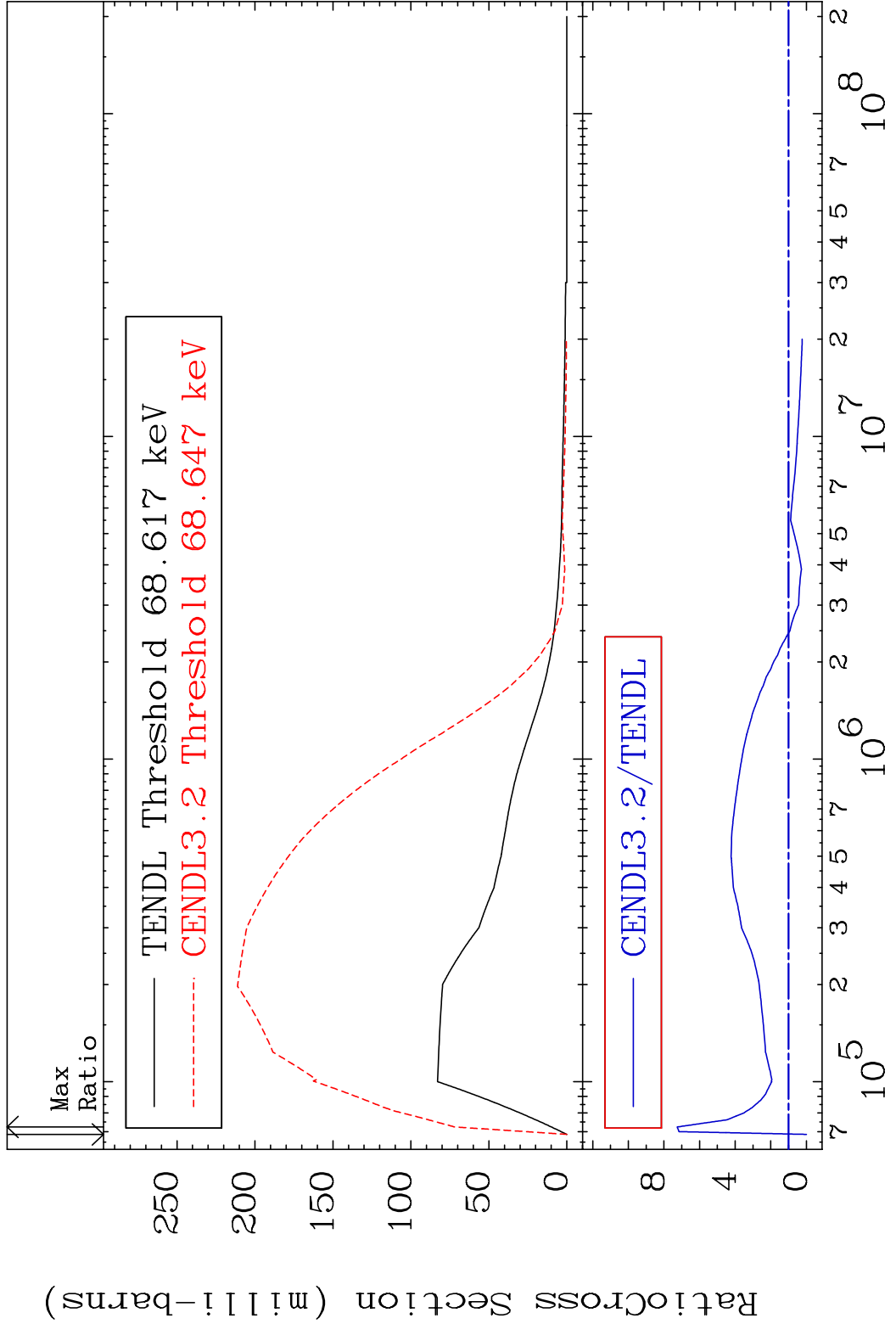


7

Incident Energy (eV)

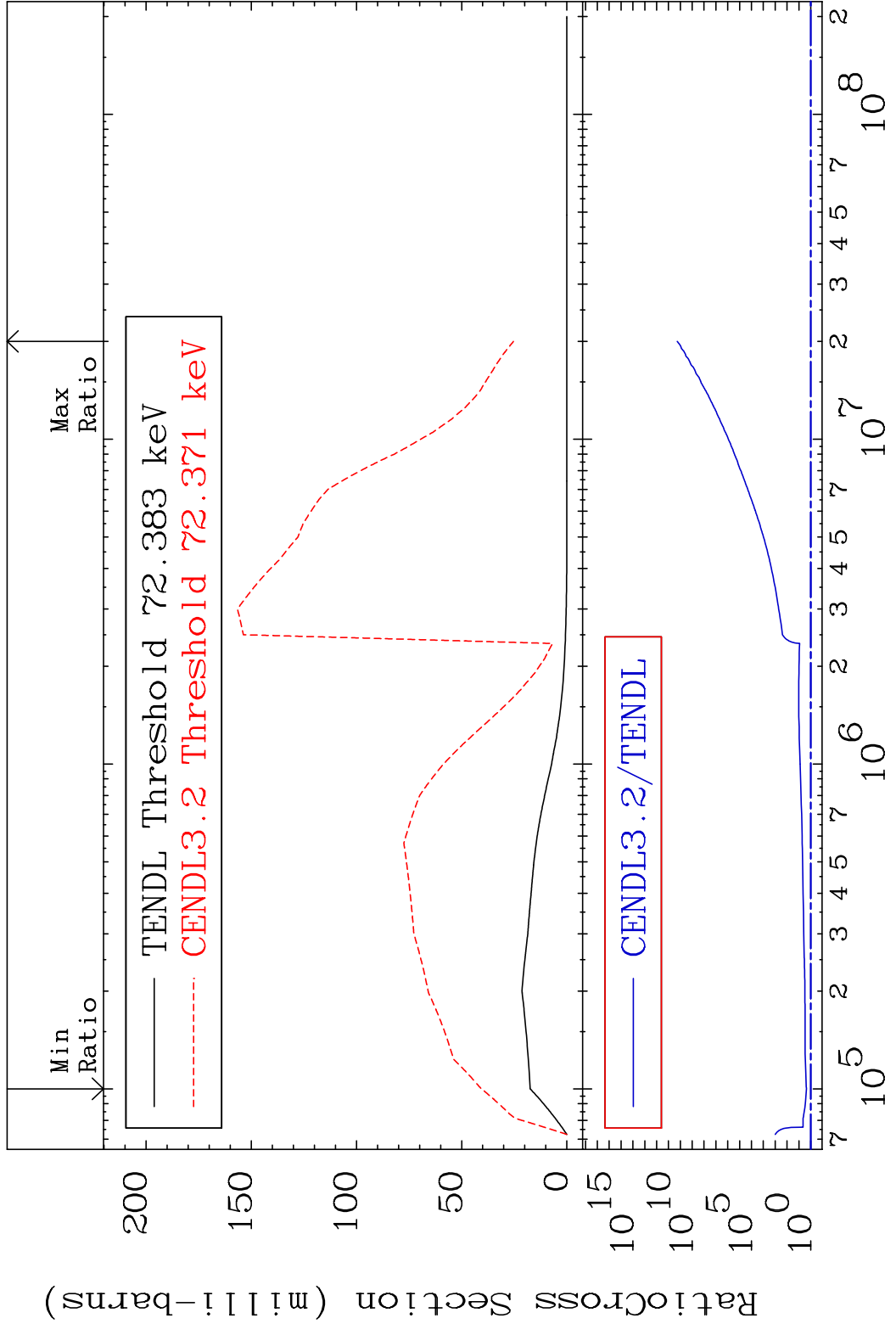
63-Eu-154

MAT 6334 MT= 51 (n,n') Level 63-Eu-154
 Cross Section -100.0 To 625.8 %

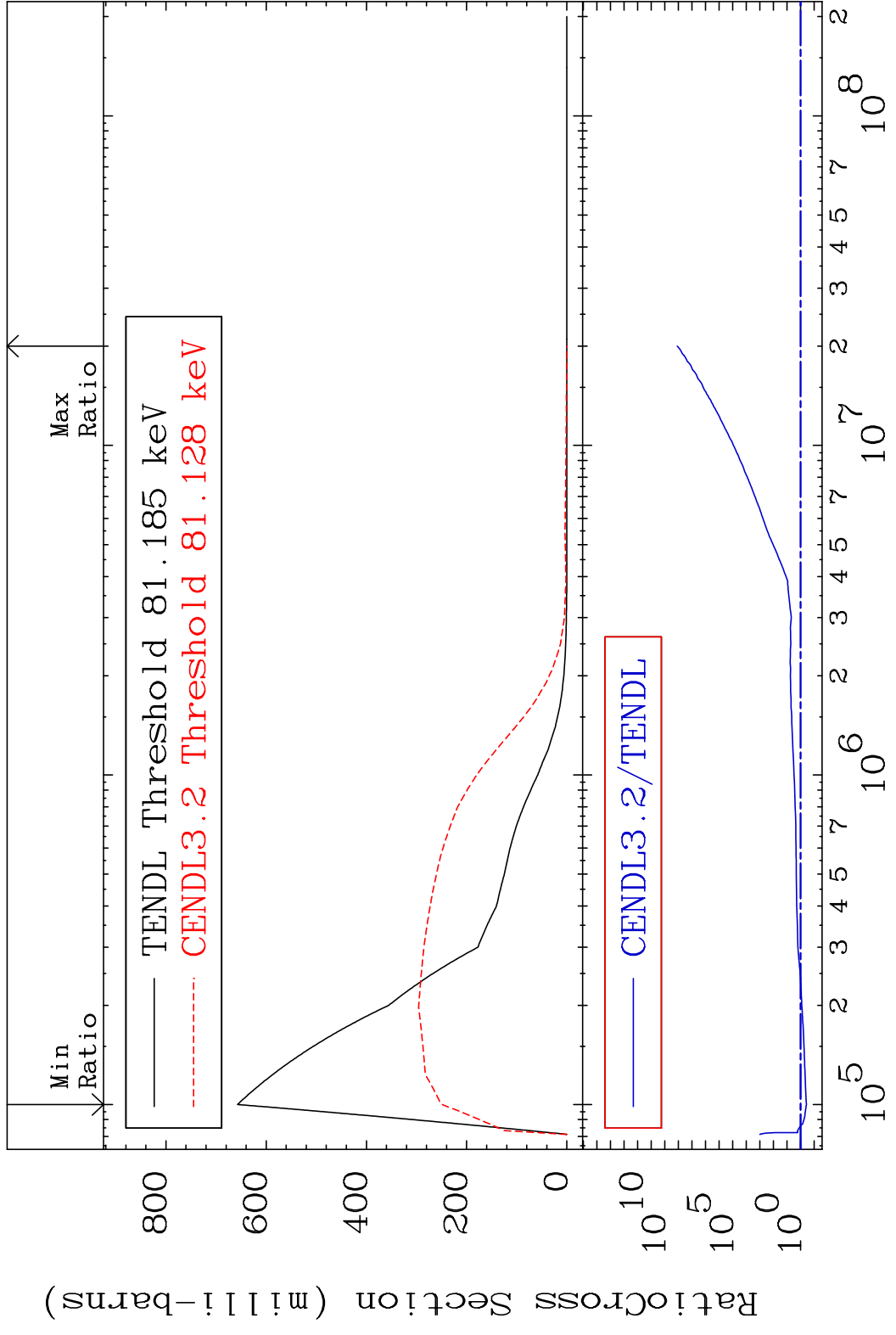


8 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 52 (n,n') Level 63-Eu-154
 Cross Section 132.9 To 9999. %

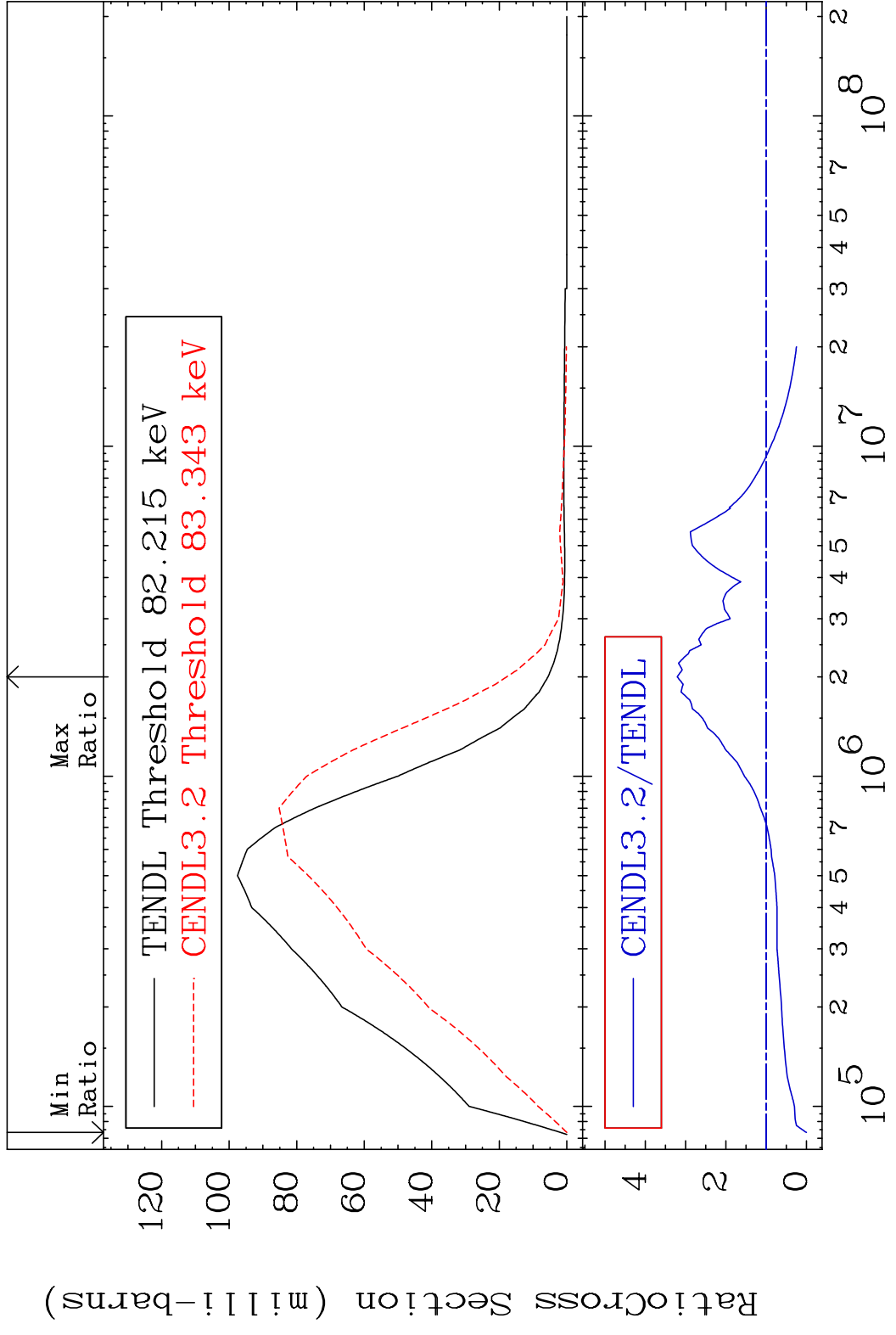


MAT 6334 MT= 53 (n, n') Level 63-Eu-154
 Cross Section -62.12 To 9999. %

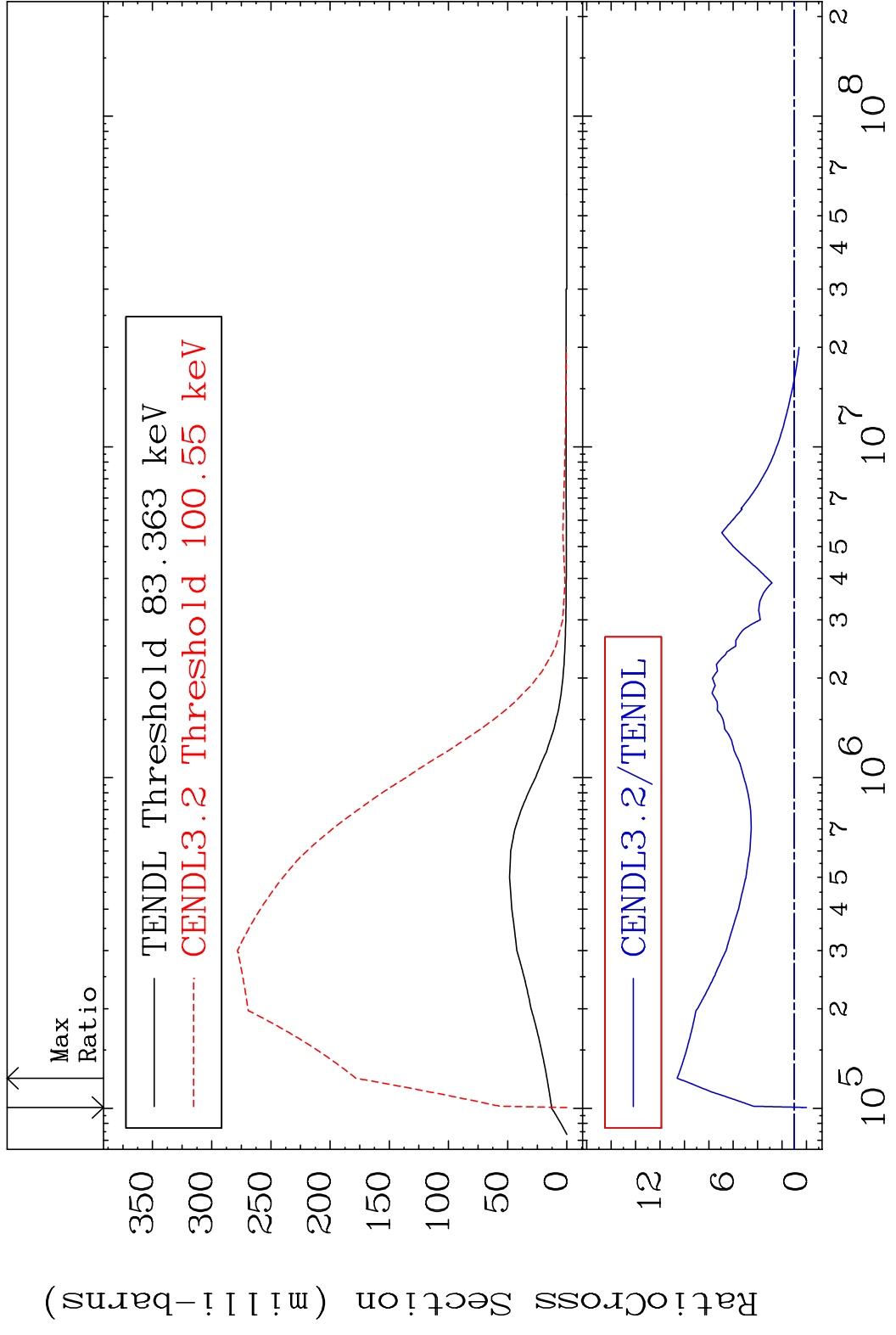


10 10⁵ 10⁶ 10⁷ 10⁸ 2 3 4 5 6 7 8 2 63-Eu-154

MAT 6334 MT= 54 (n, n') Level 63-Eu-154
 Cross Section -100.0 To 220.8 %

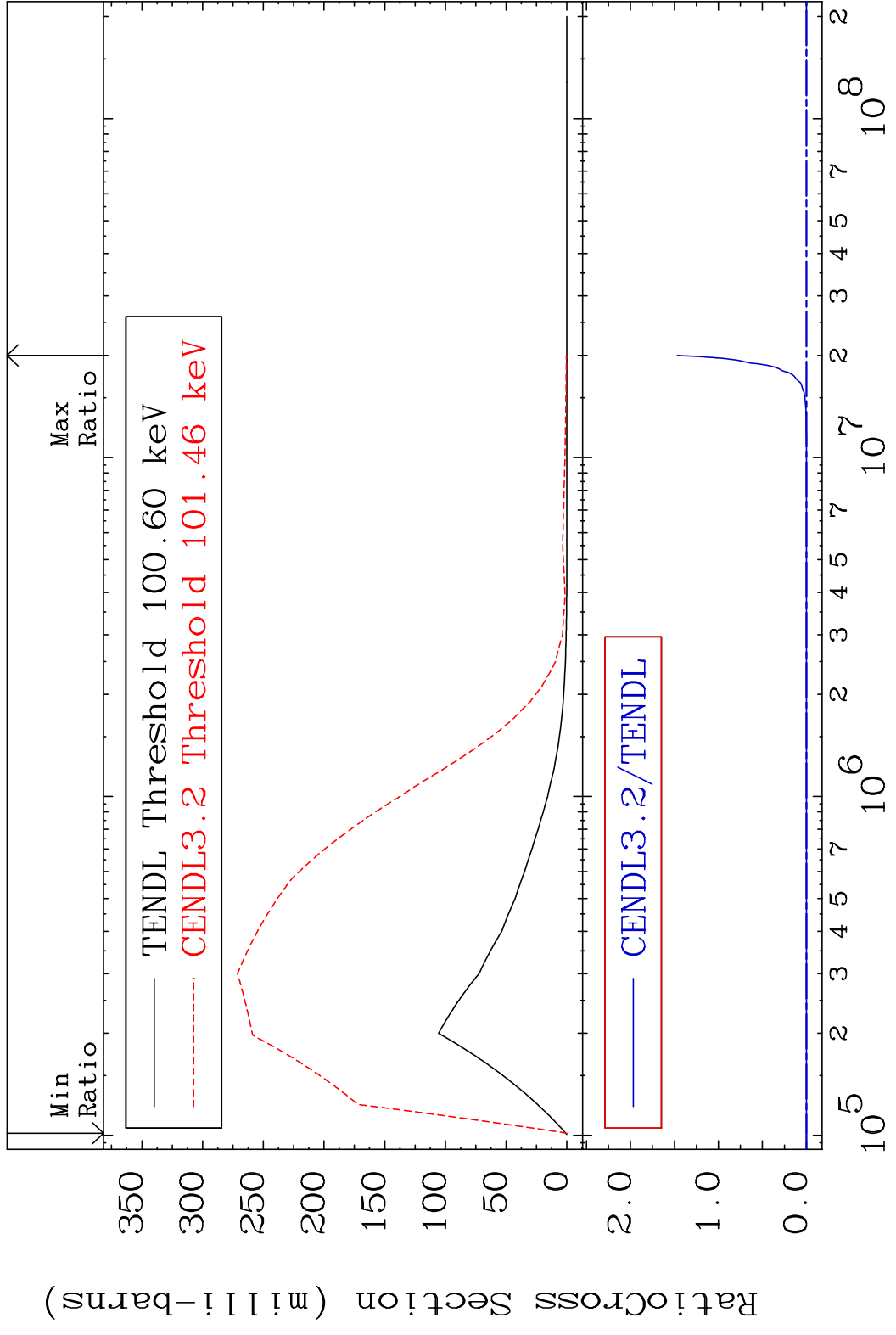


MAT 6334 MT= 55 (n,n') Level 63-Eu-154
 Cross Section -100.0 To 959.1 %



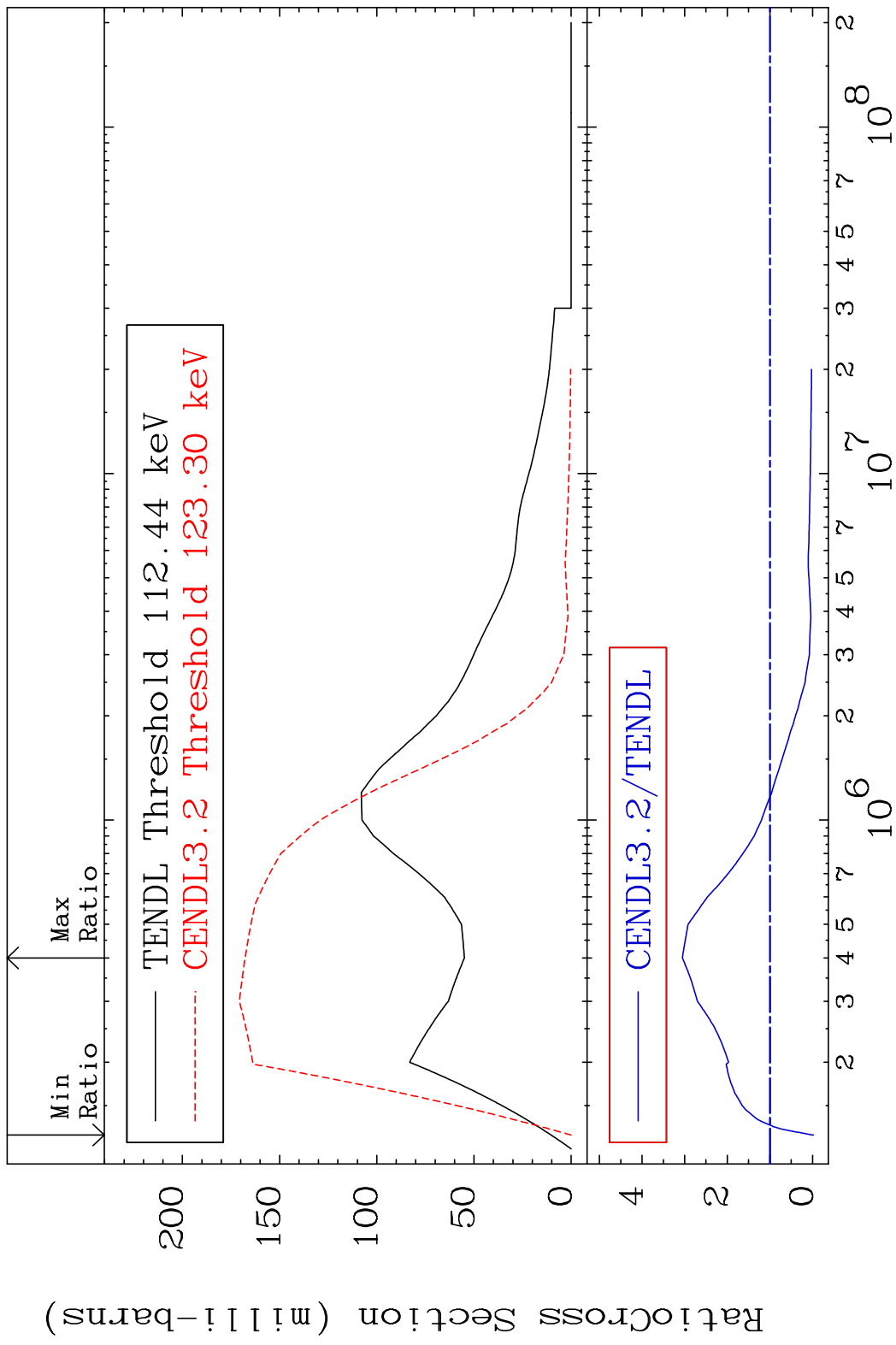
12 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 56 (n,n') Level 63-Eu-154
 Cross Section -100.0 To 9999. %



13 Incident Energy (eV) 63-Eu-154

MAT 6334 MT= 57 (n, n') Level 63-Eu-154
 Cross Section -100.0 To 205.4 %

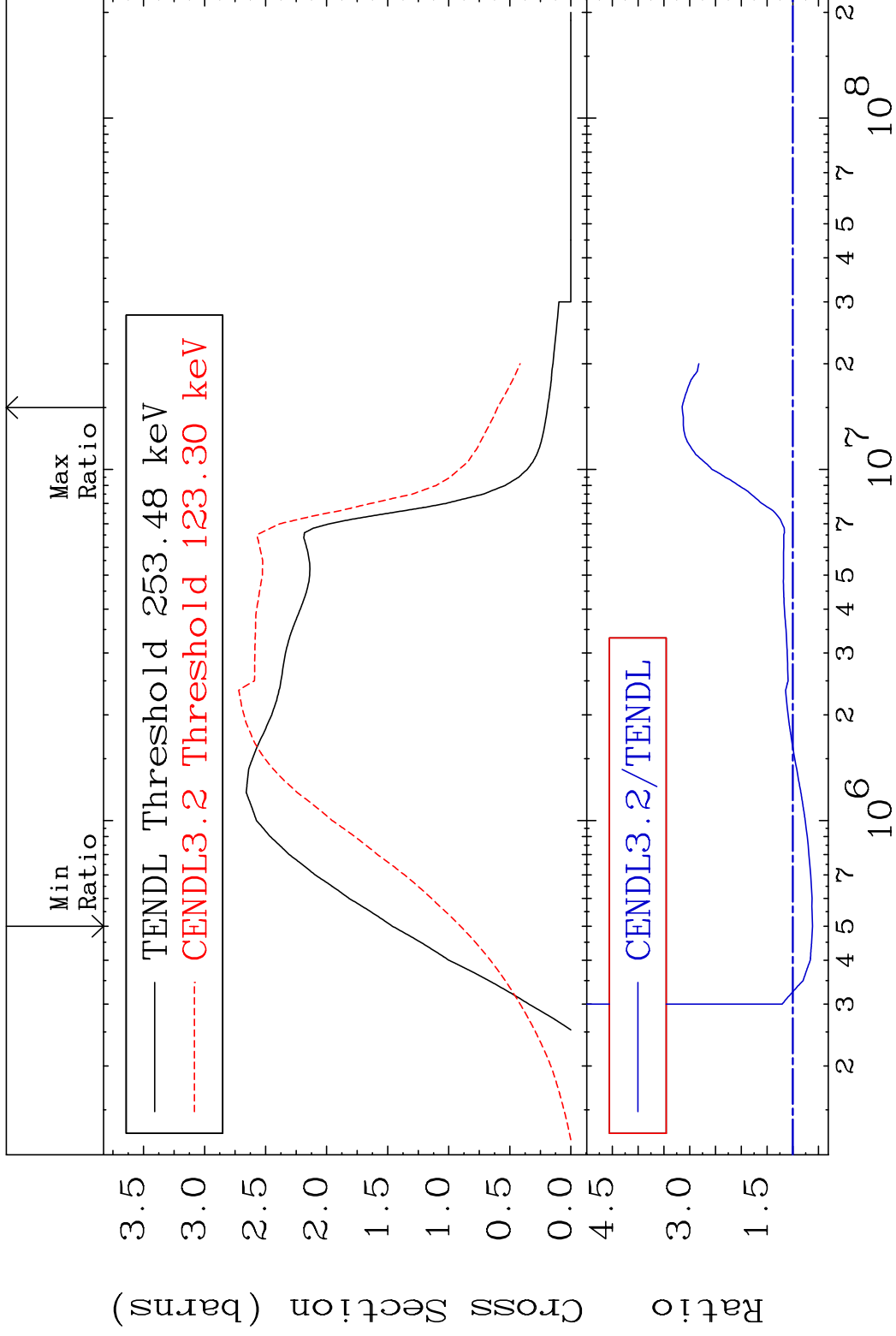


MAT 6334

(n, n') Continuum

63-Eu-154

Cross Section -38.19 To 214.6 %



15

Incident Energy (eV)

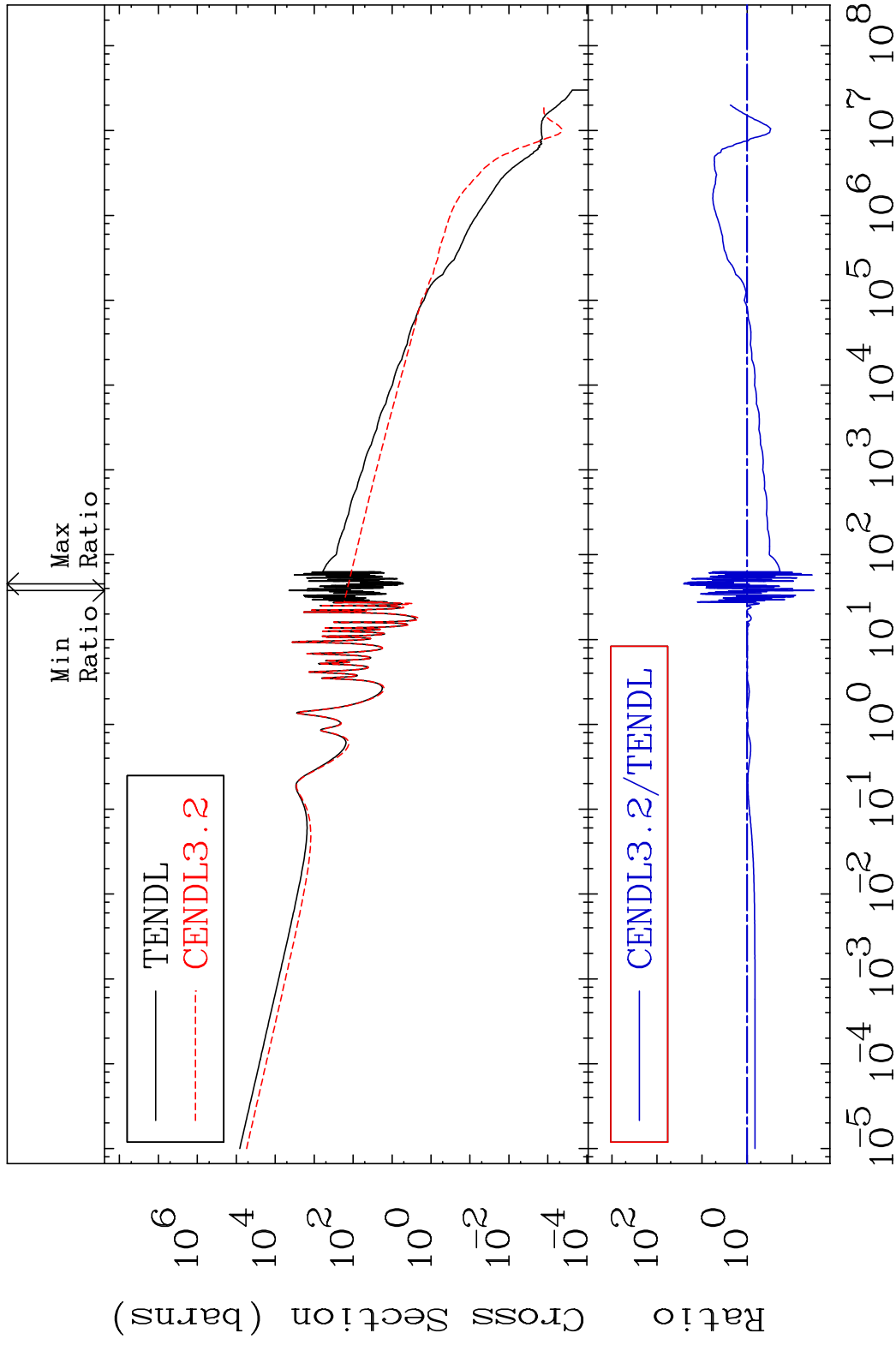
63-Eu-154

MAT 6334

(n, γ)

63-Eu-154

Cross Section -96.75 To 2466. %



16

Incident Energy (eV)

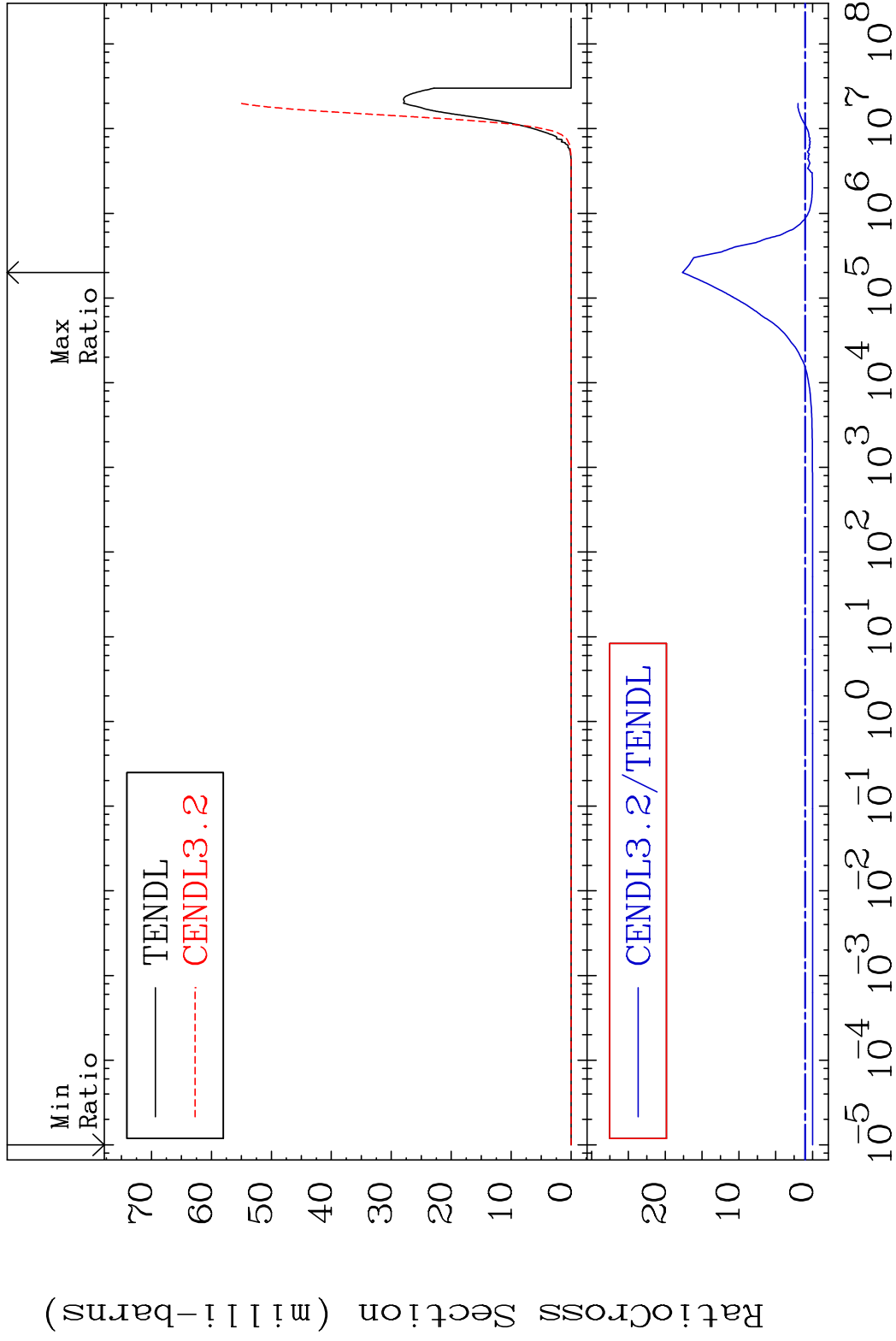
63-Eu-154

MAT 6334

(n, p)

63-Eu-154

Cross Section -100.0 To 1667. %

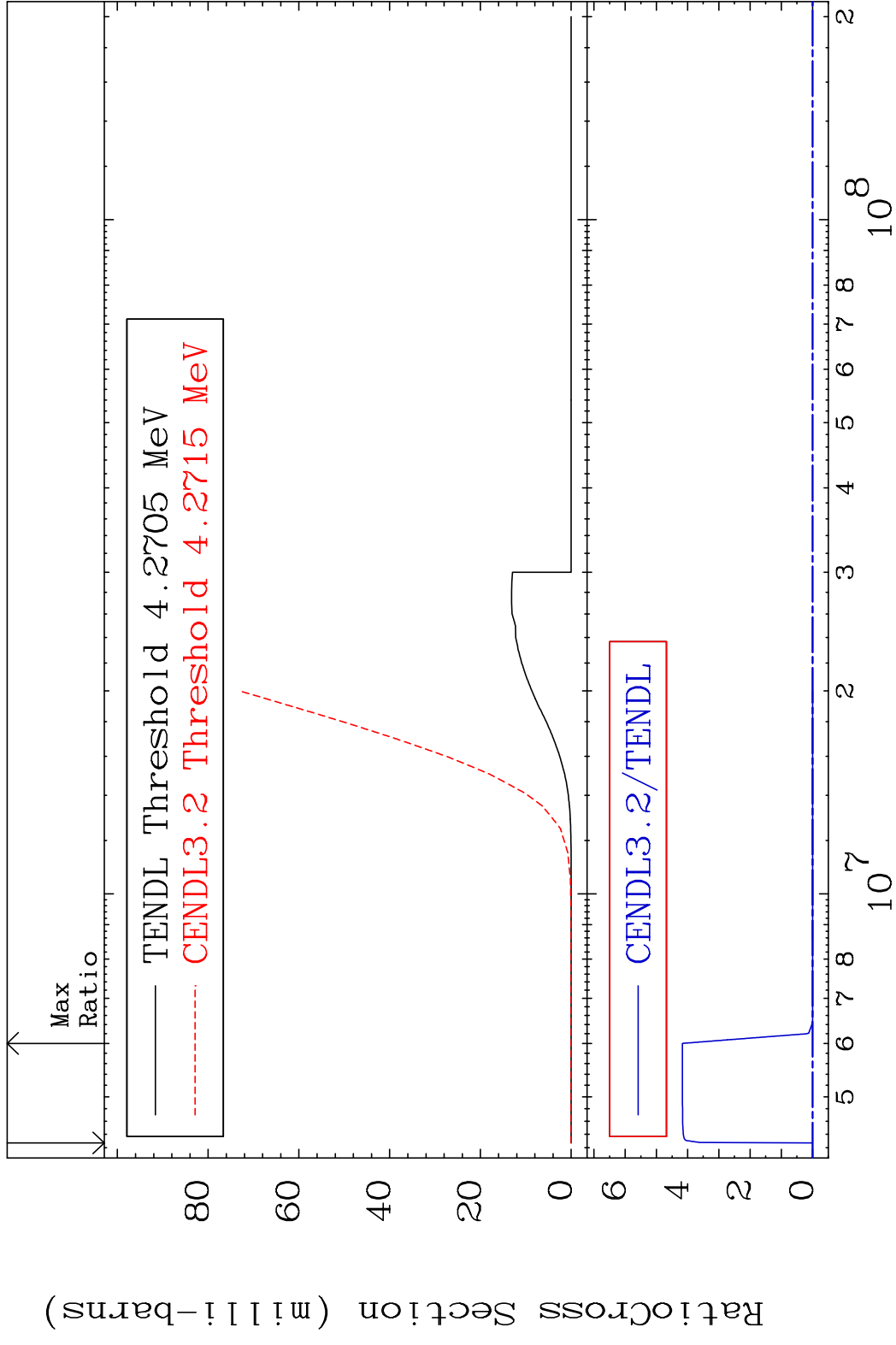


17

Incident Energy (eV)

63-Eu-154

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

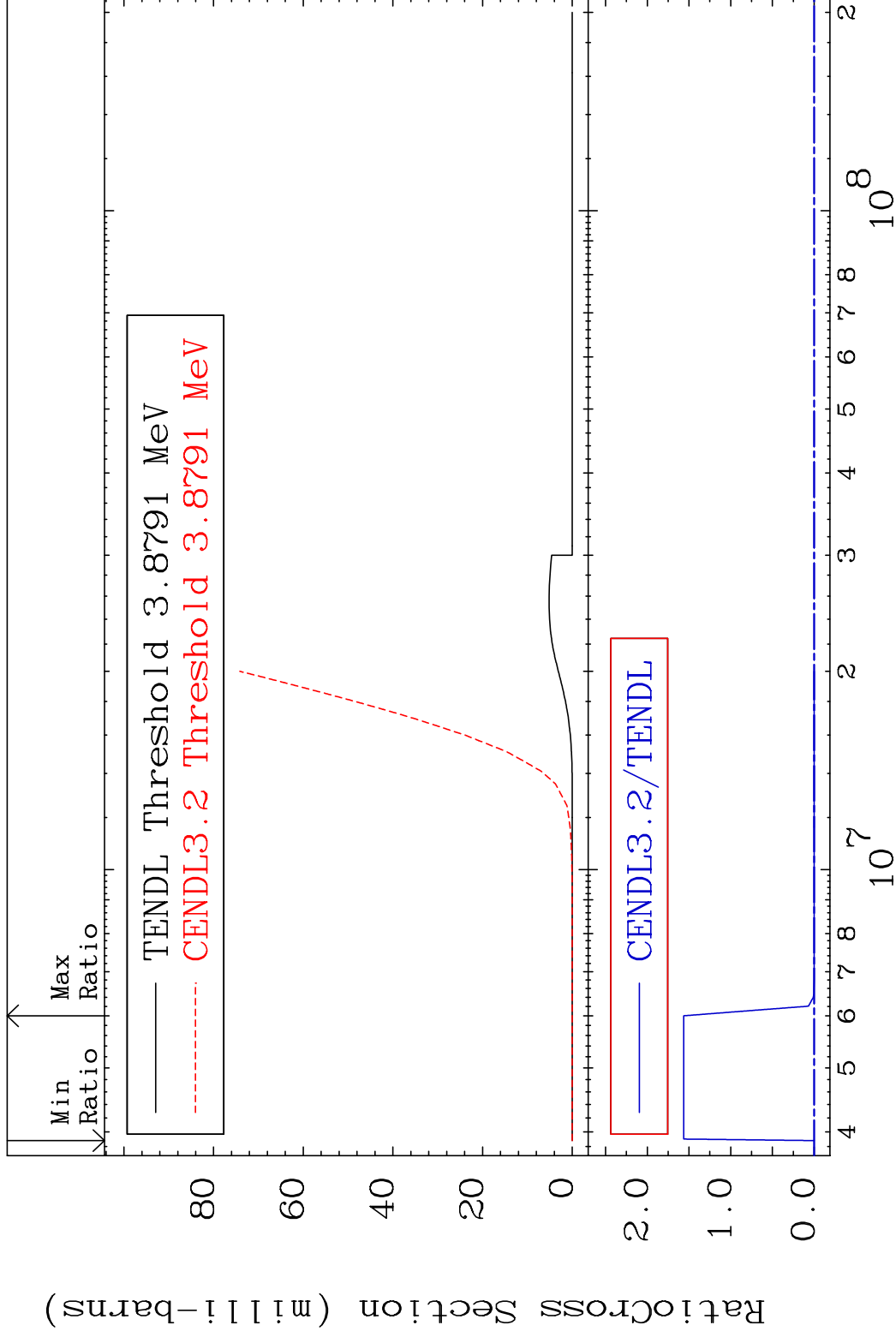


MAT 6334

(n, t)

63-Eu-154

Cross Section -100.0 To 9999. %

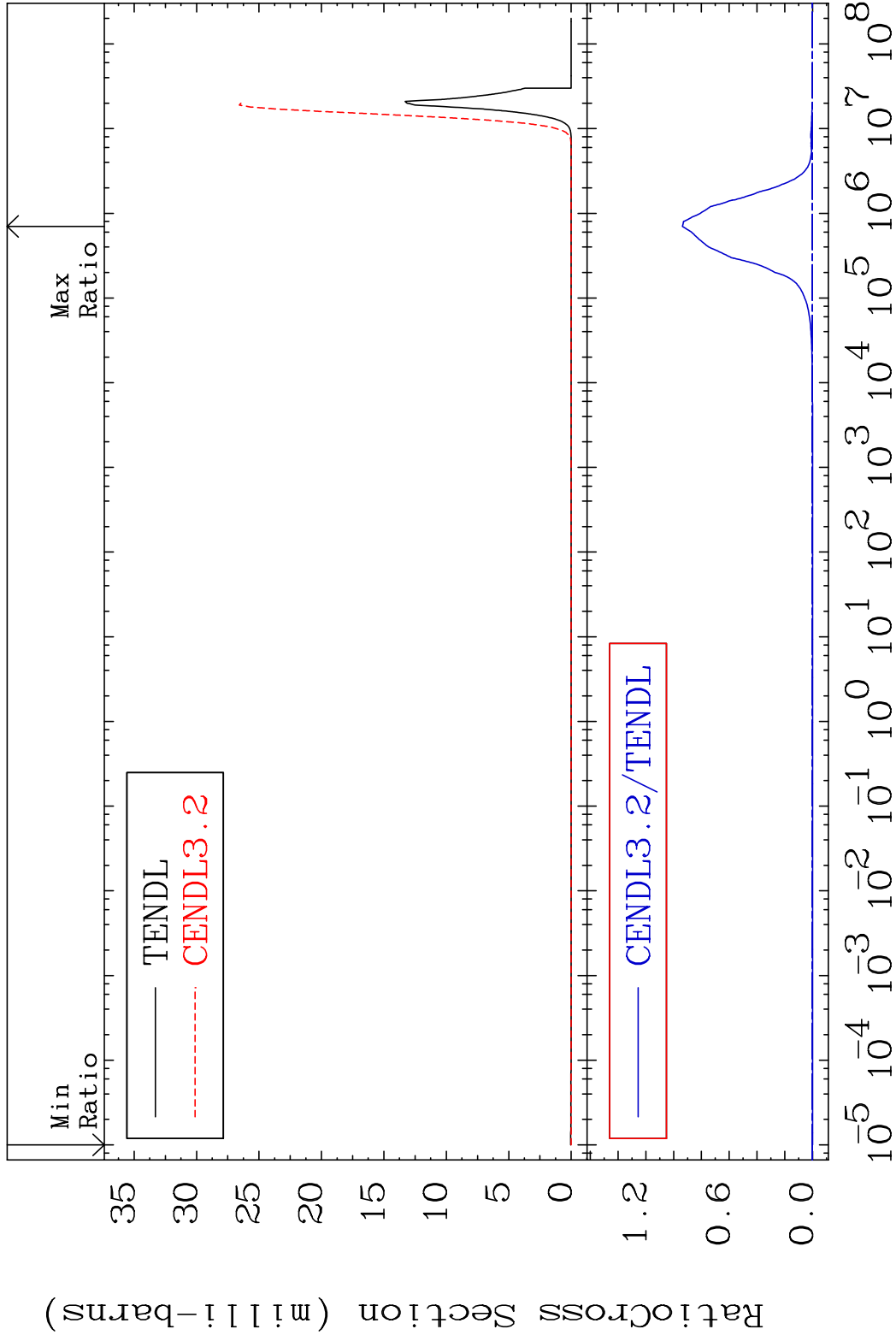


MAT 6334

(n, α)

63-Eu-154

Cross Section -100.0 To 9999. %

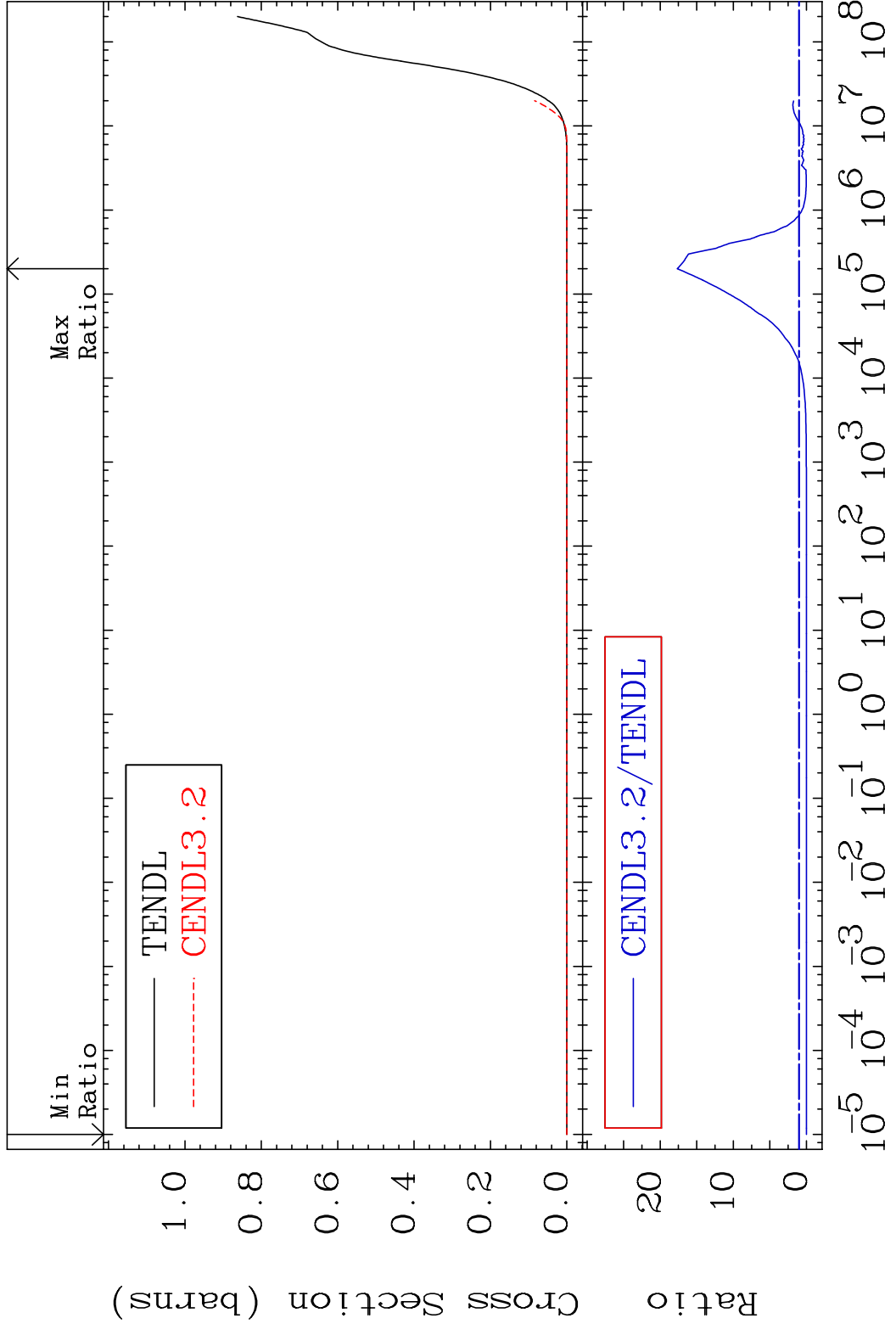


20

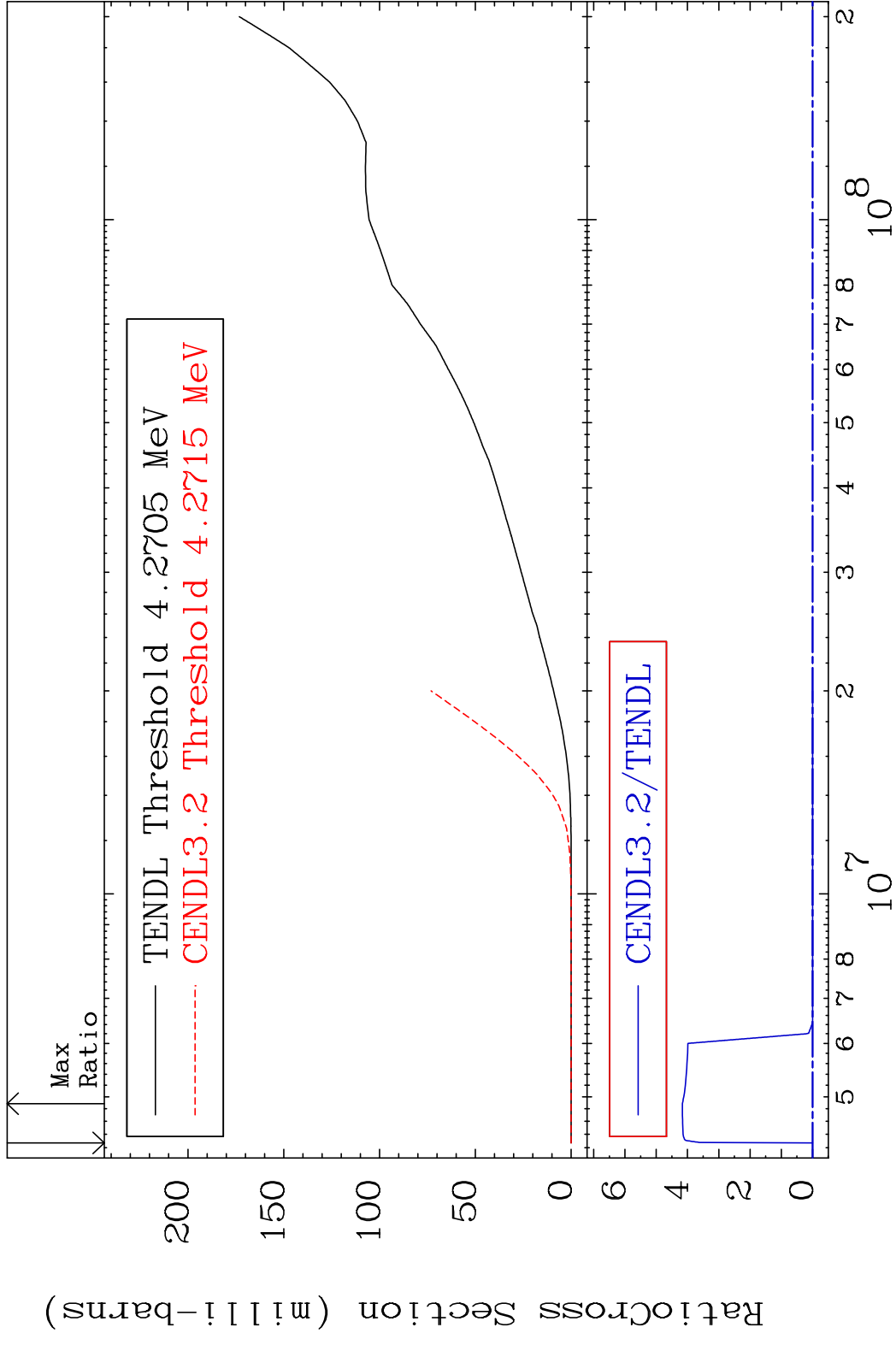
Incident Energy (eV)

63-Eu-154

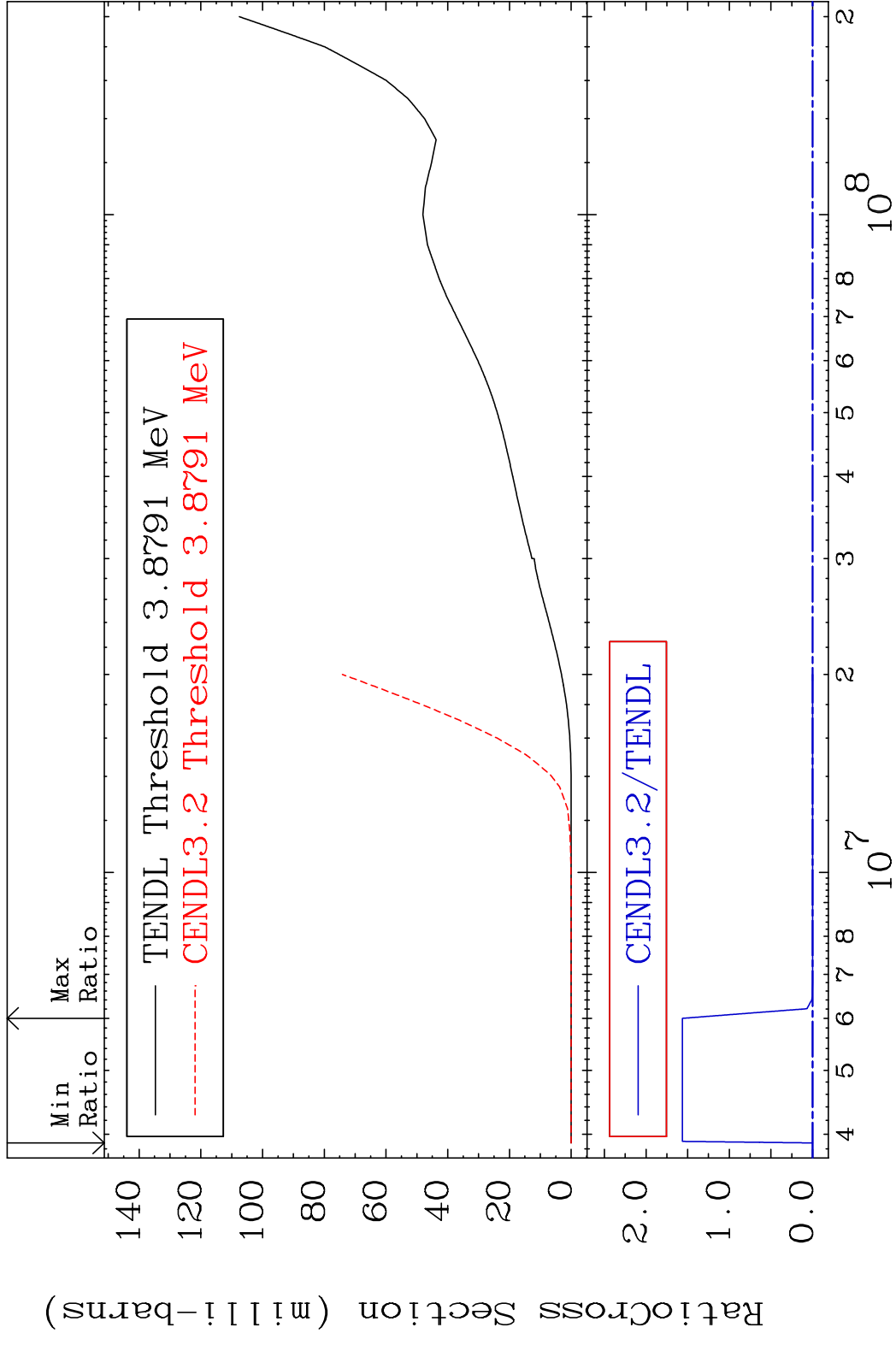
MAT 6334 Hydrogen Production 63-Eu-154
 Cross Section -100.0 To 1667. %



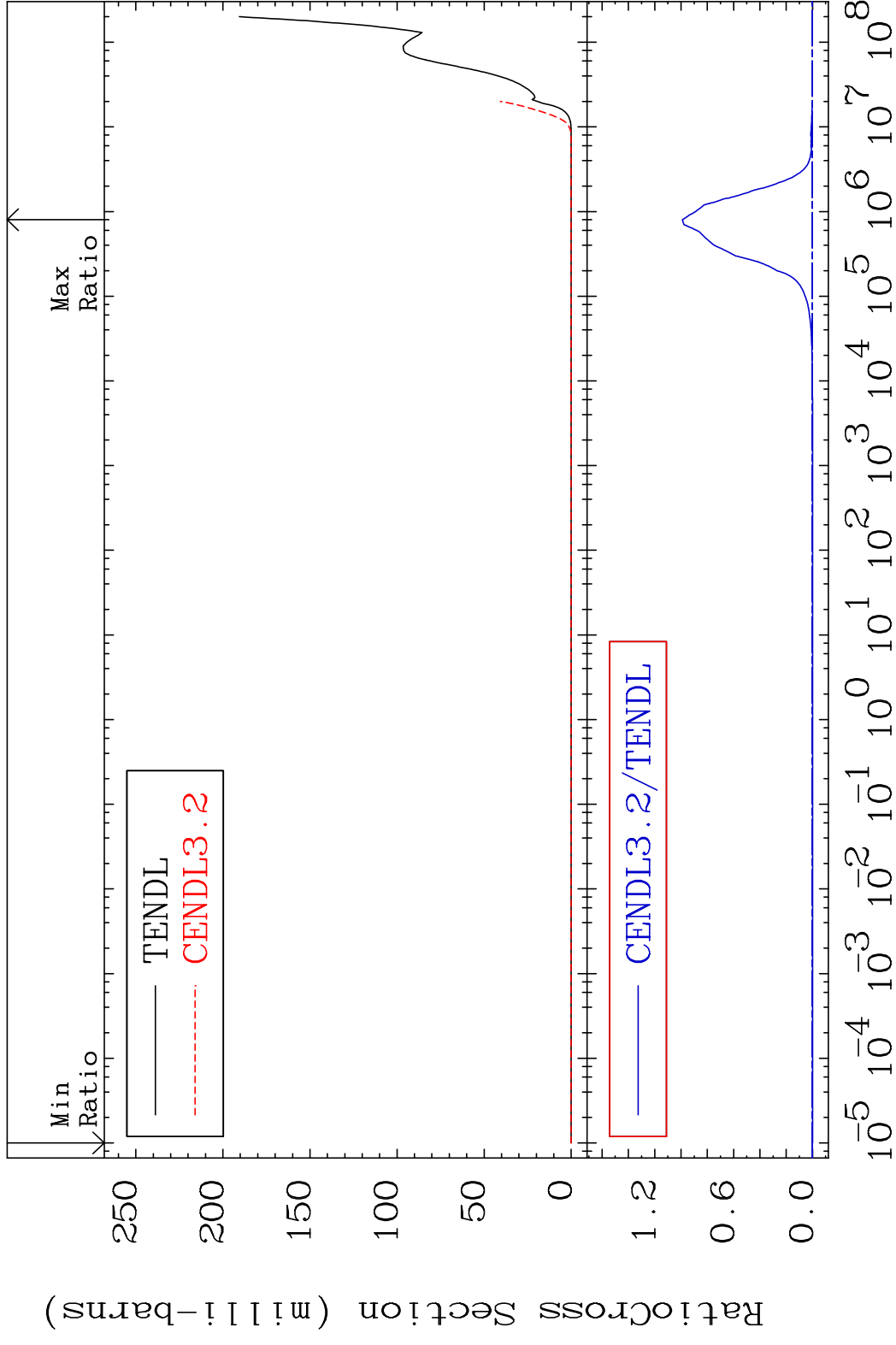
MAT 6334 Deuterium Production 63-Eu-154
 Cross Section -100.0 To 9999. %



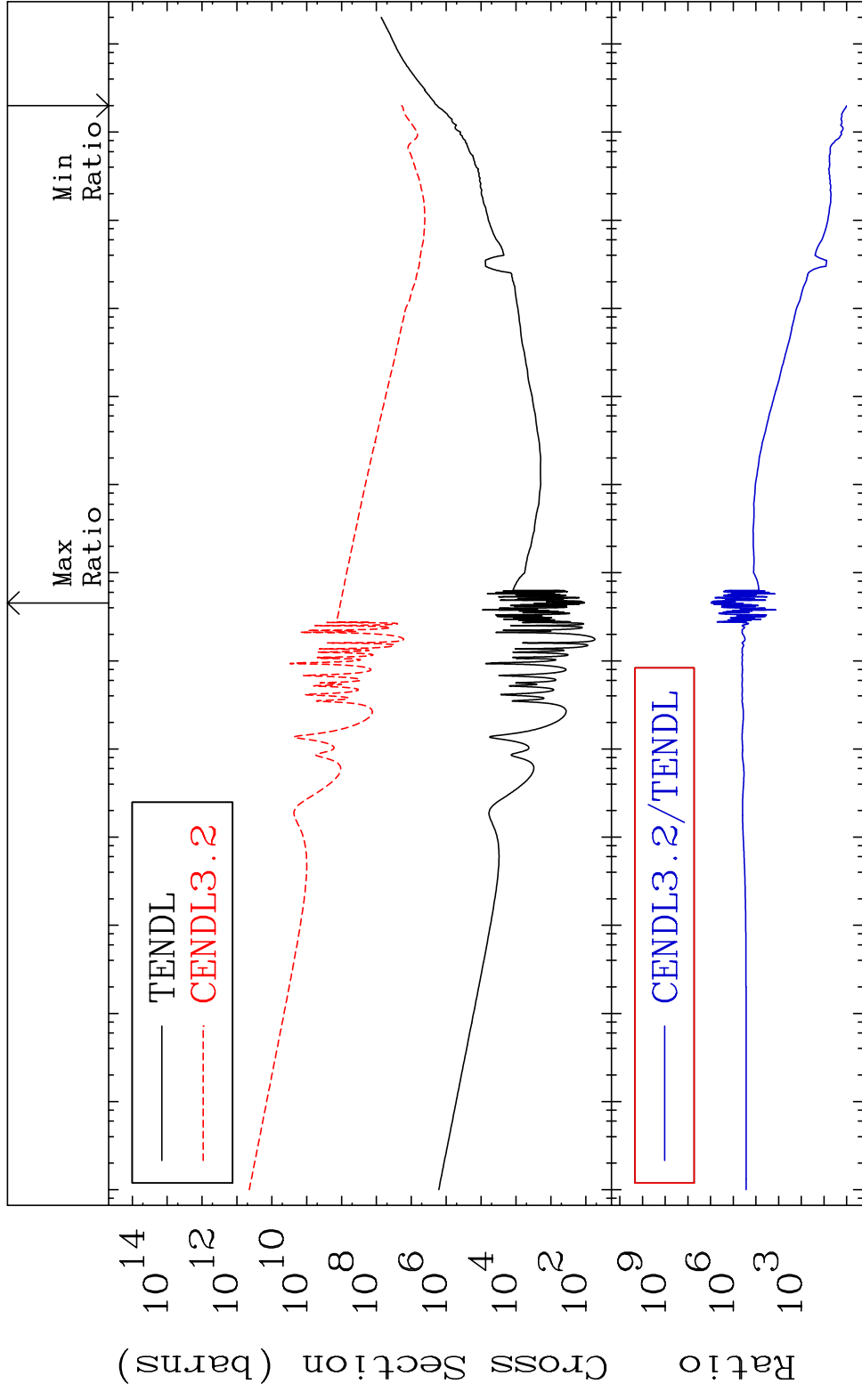
MAT 6334 Tritium Production 63-Eu-154
 Cross Section -100.0 To 9999. %



MAT 6334 He-4 Production 63-Eu-154
 Cross Section -100.0 To 9999. %



MAT 6334 Kerma total (eV-barns) 63-Eu-154
 Cross Section 936.2 To 9999. %

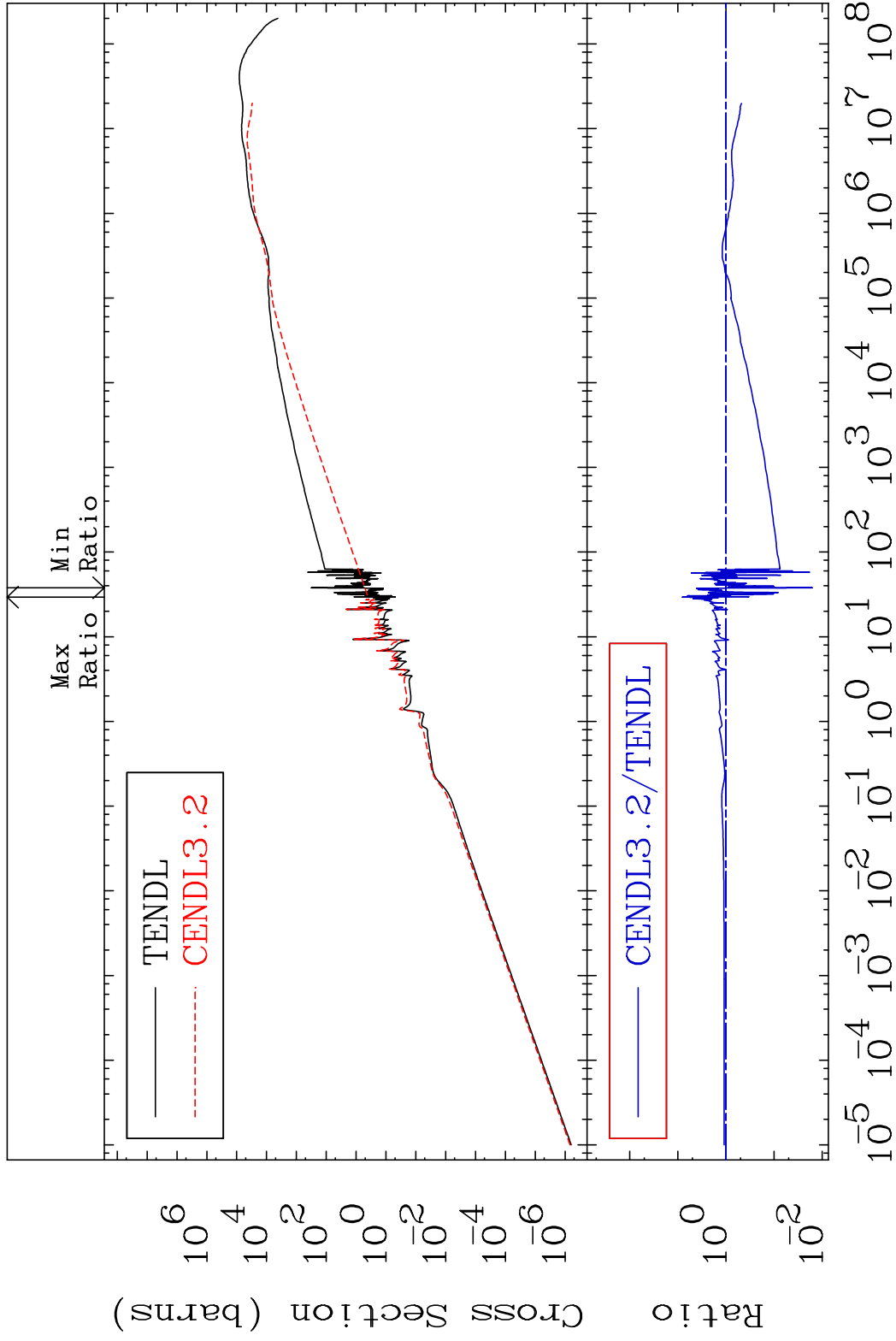


Ratio
 Cross Section (barns)
 Incident Energy (eV)

MAT 6334

Kerma elastic
Cross Section -98.41 To 707.4 %

63-Eu-154

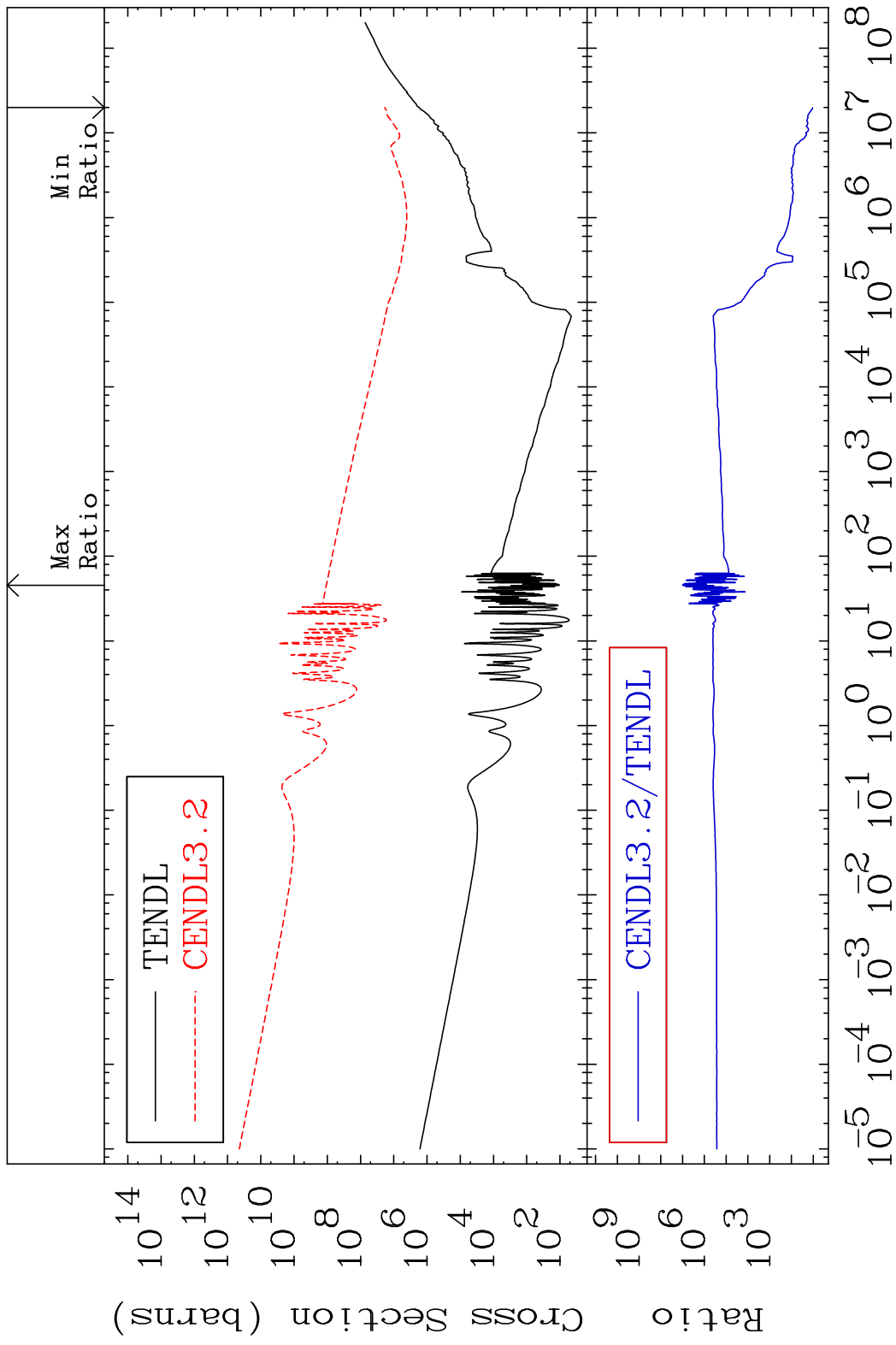


26

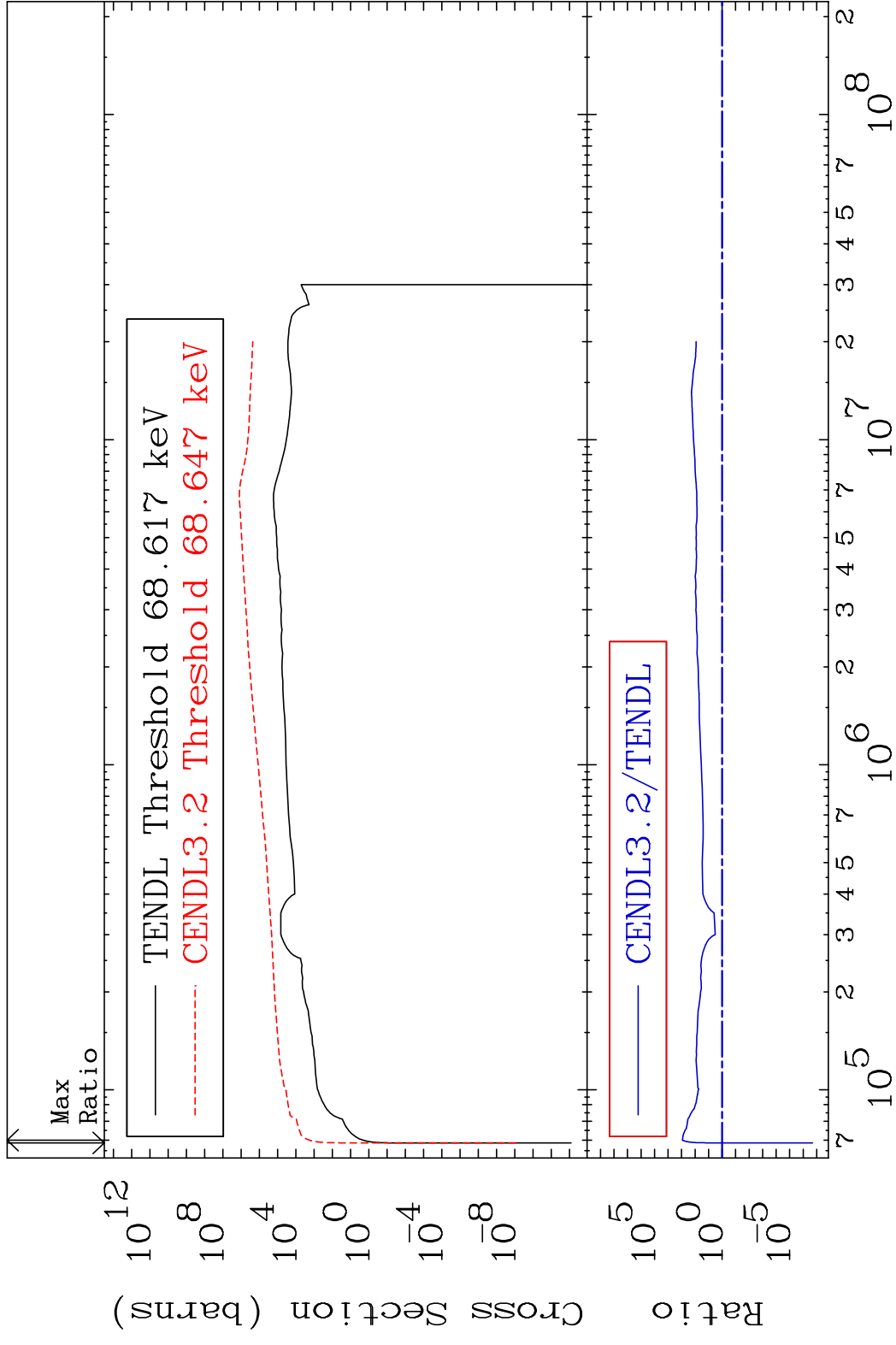
Incident Energy (eV)

63-Eu-154

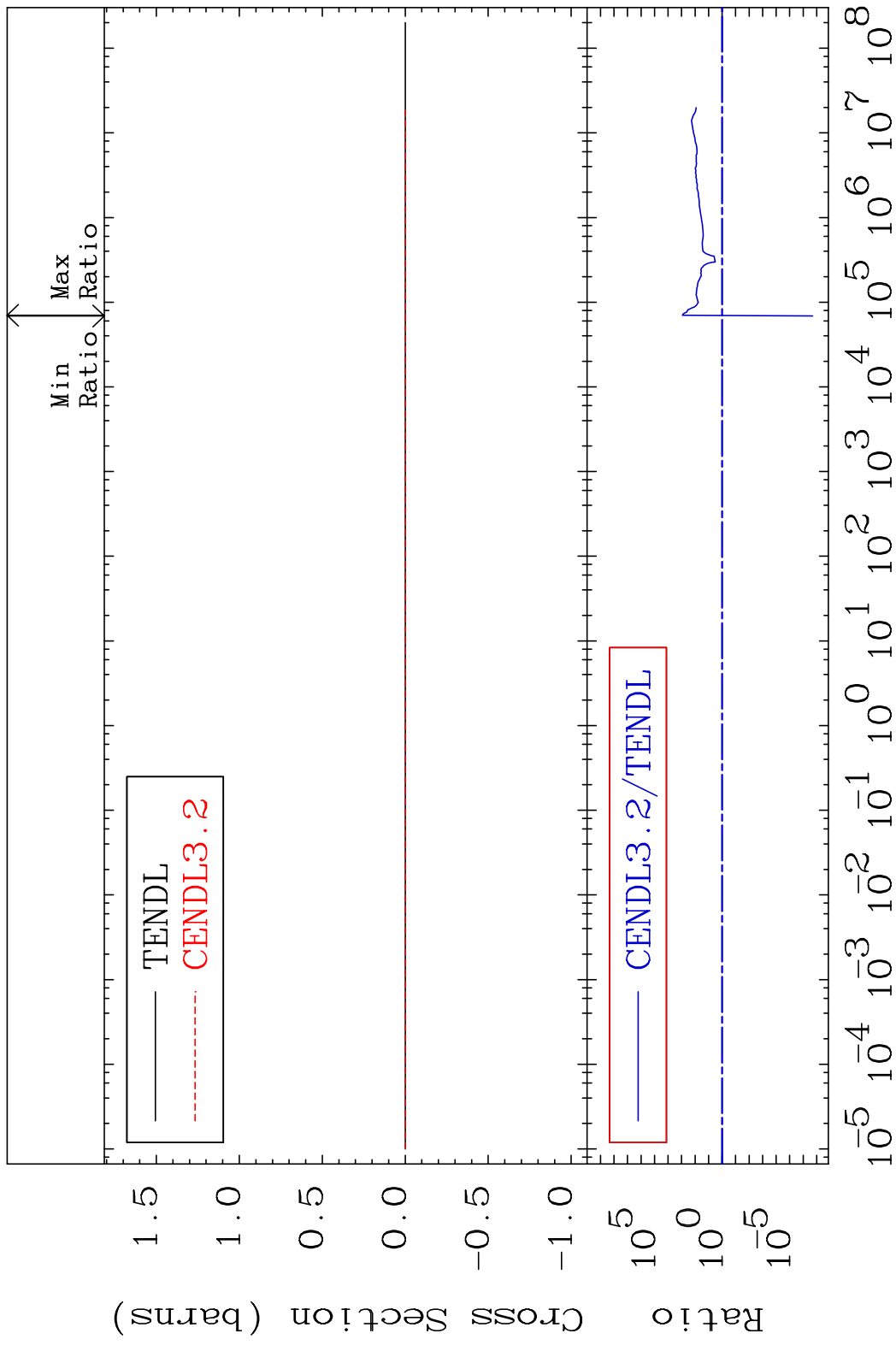
MAT 6334 Kerma non-elastic (all but mt2) 63-Eu-154
 Cross Section 972.1 To 9999. %



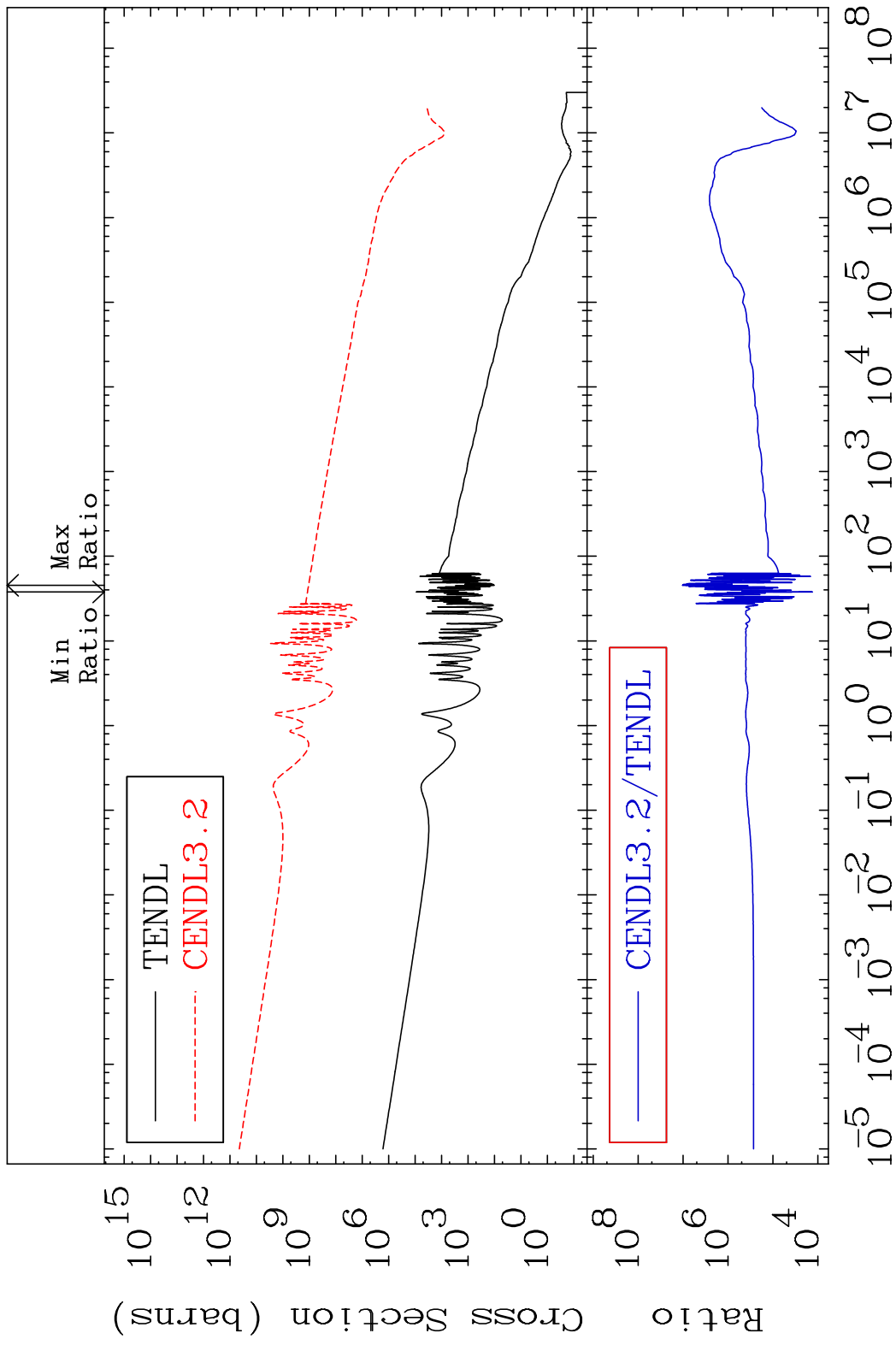
MAT 6334 Kerma inelastic (mt51-91) 63-Eu-154
 Cross Section -100.0 To 9999. %



MAT 6334 Kerma fission (mt18 or mt19-20-21-38)63-Eu-154
 Cross Section -100.0 To 9999. %

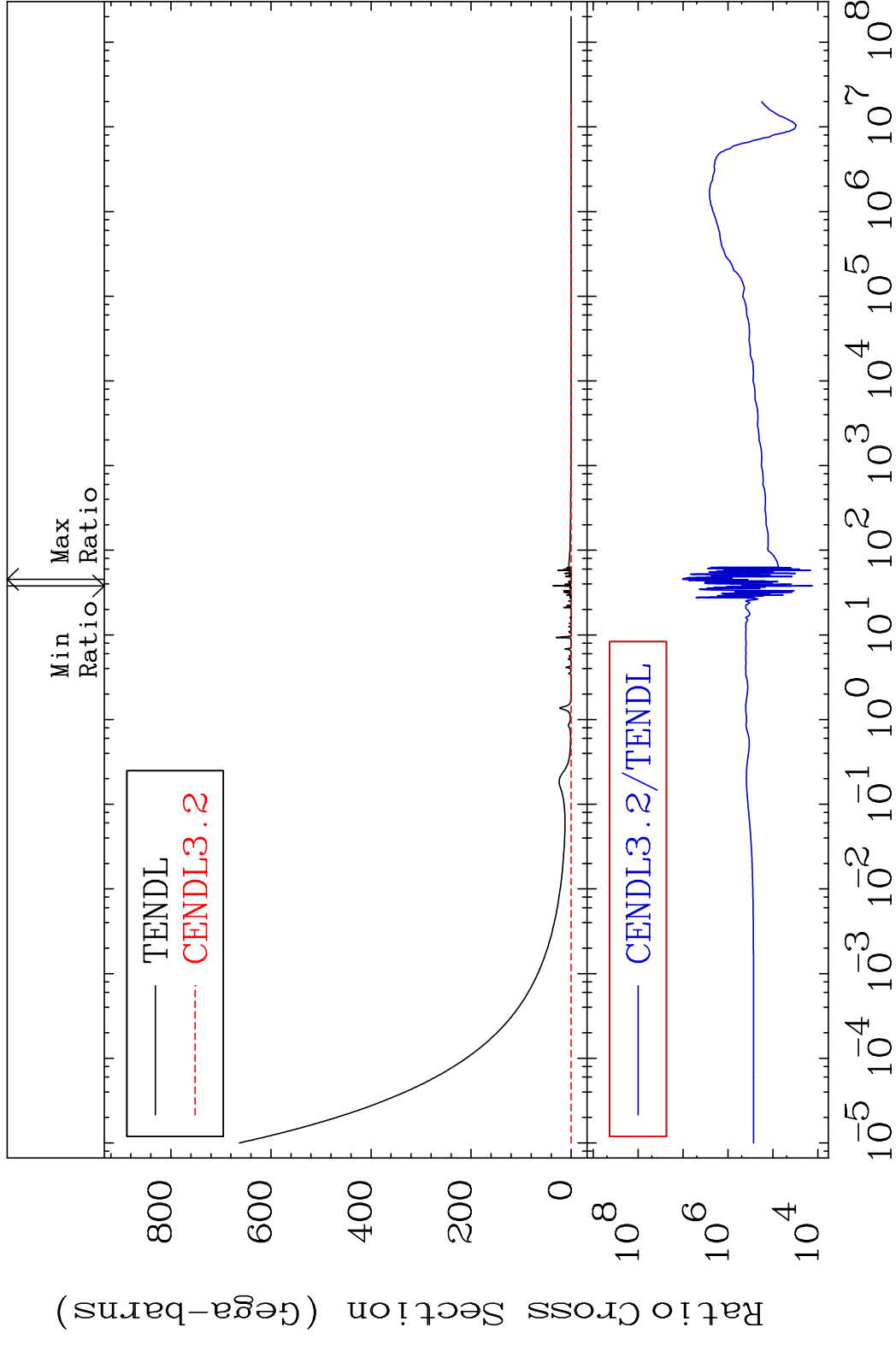


MAT 6334 Kerma capture (mt102) 63-Eu-154
 Cross Section 9999. To 9999. %

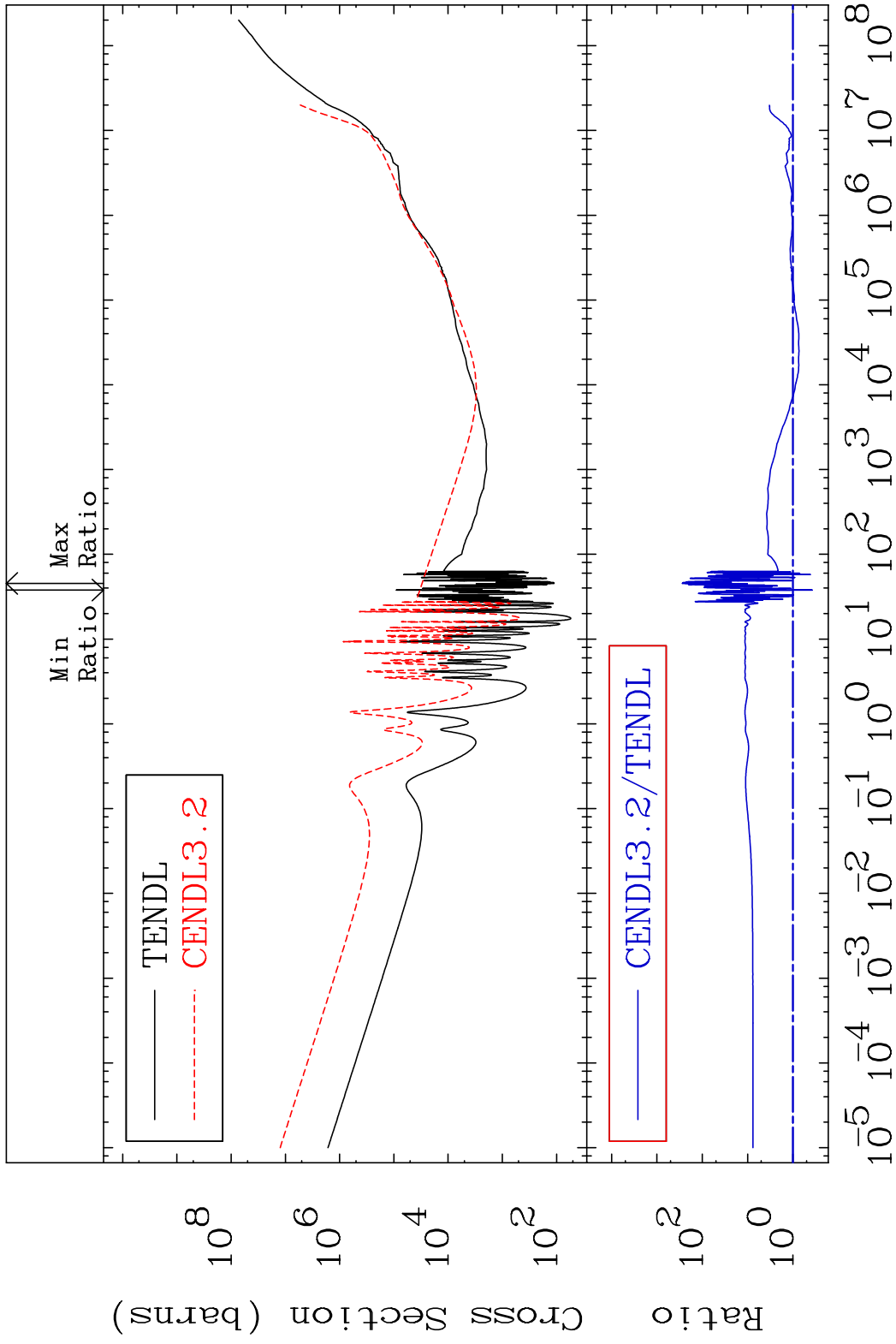


30 Incident Energy (eV) 63-Eu-154

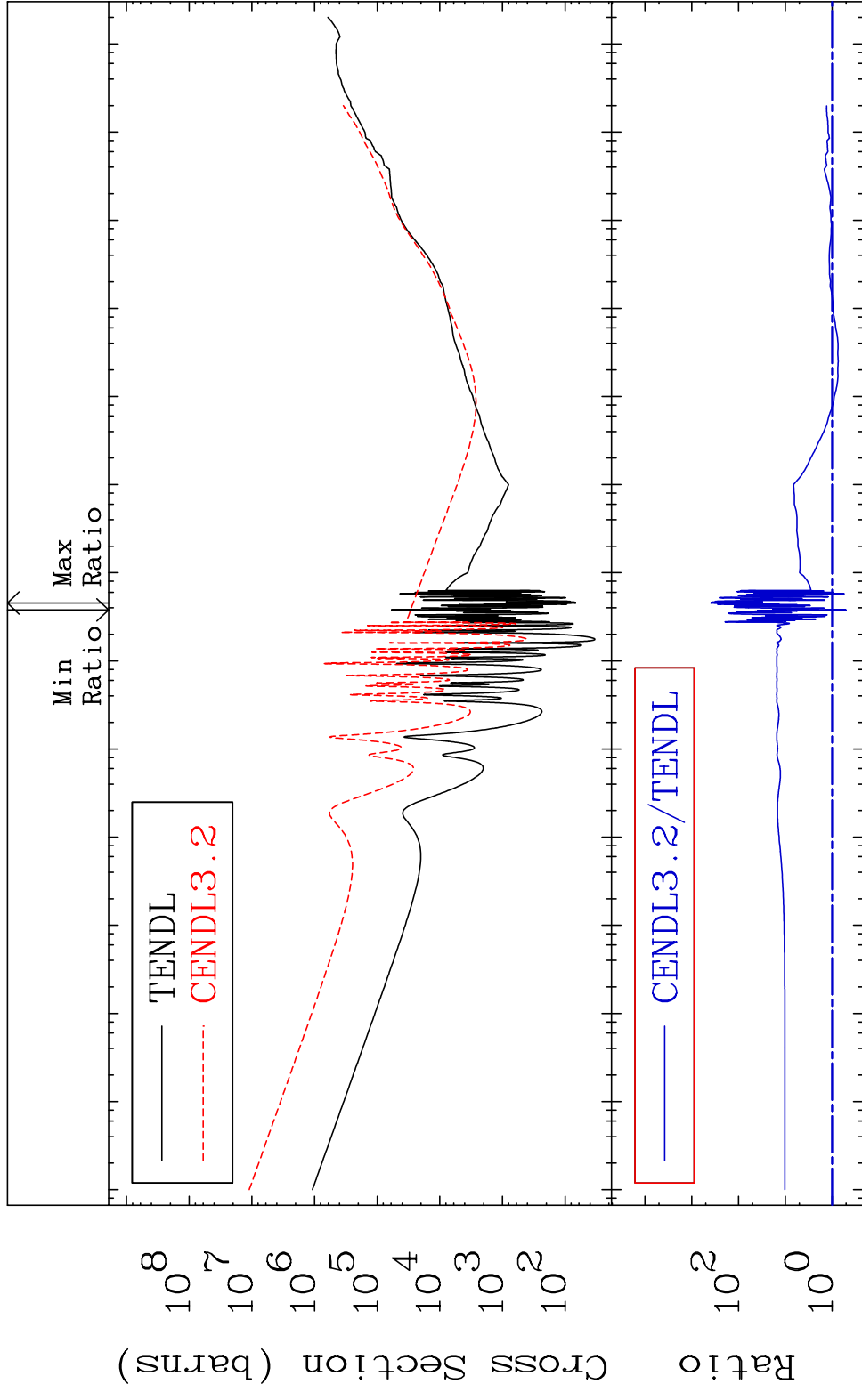
MAT 6334 Total photon (eV-barns) 63-Eu-154
 Cross Section 9999. To 9999. %



MAT 6334 Total kinematic kerma (high limit) 63-Eu-154
 Cross Section -62.87 To 9999. %



MAT 6334 Dpa total (eV-barns) 63-Eu-154
 Cross Section -50.37 To 9999. %



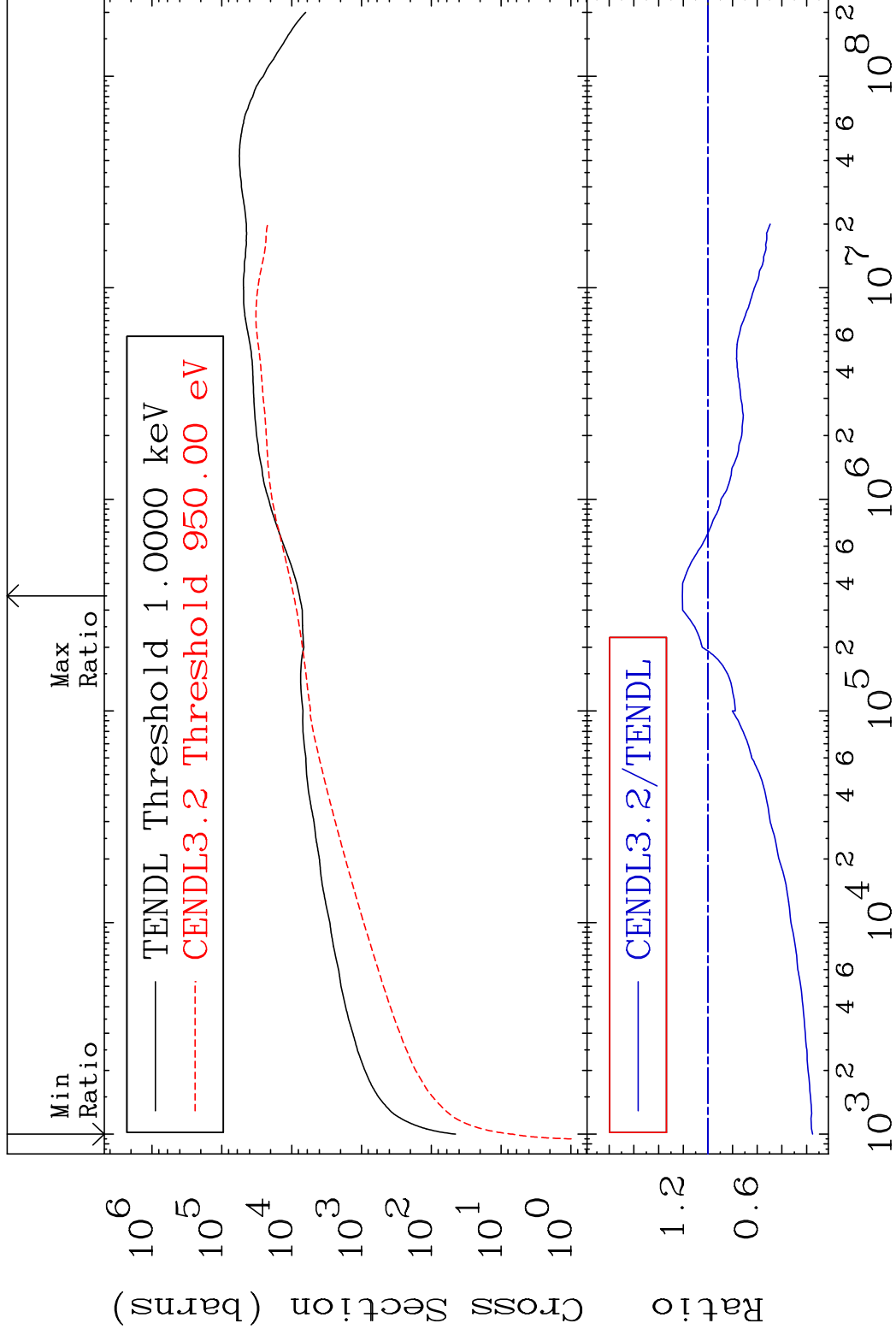
33 Incident Energy (eV) 63-Eu-154

MAT 6334

Dpa elastic (mt2)

63-Eu-154

Cross Section -84.84 To 20.73 %

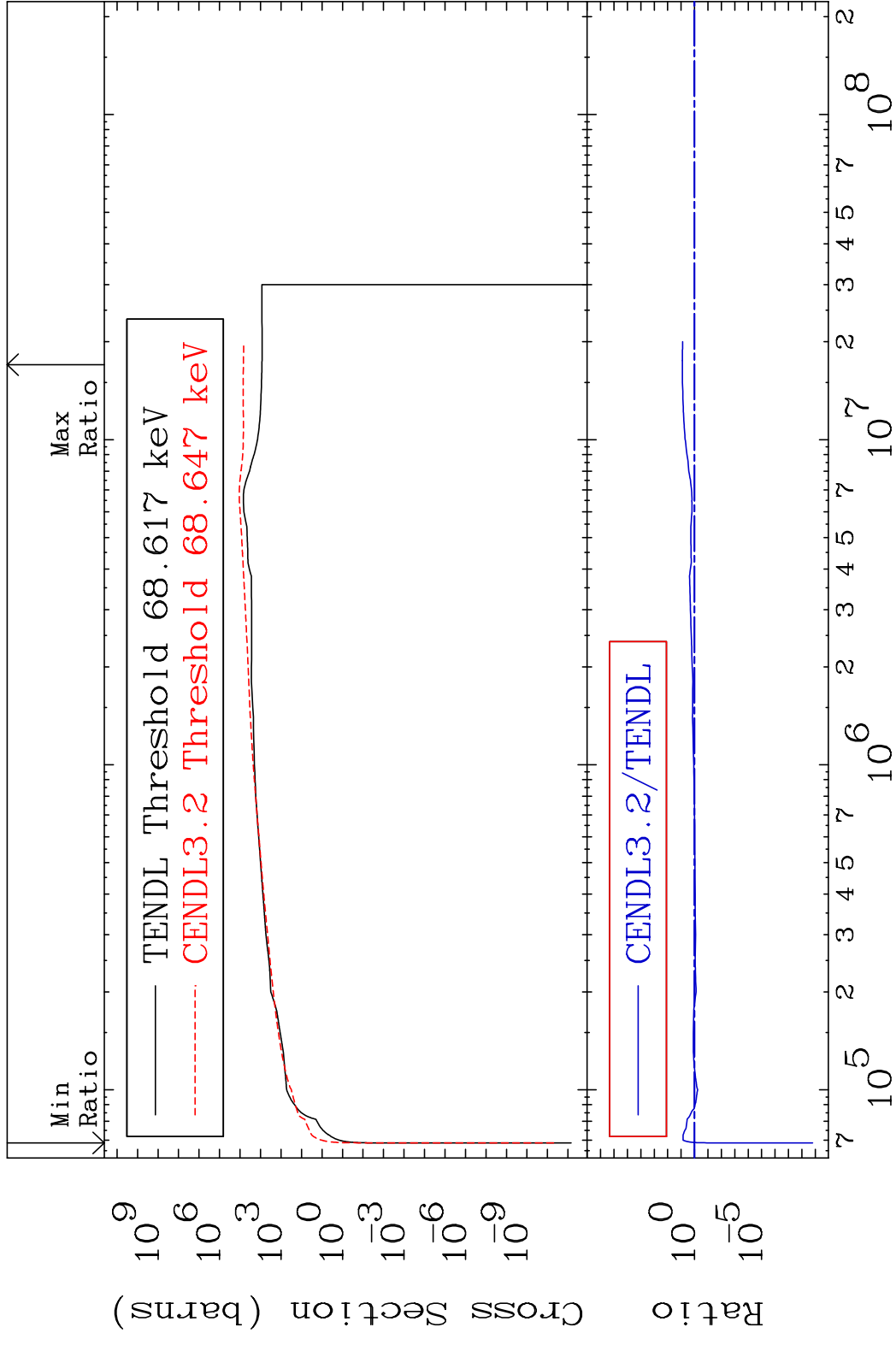


34

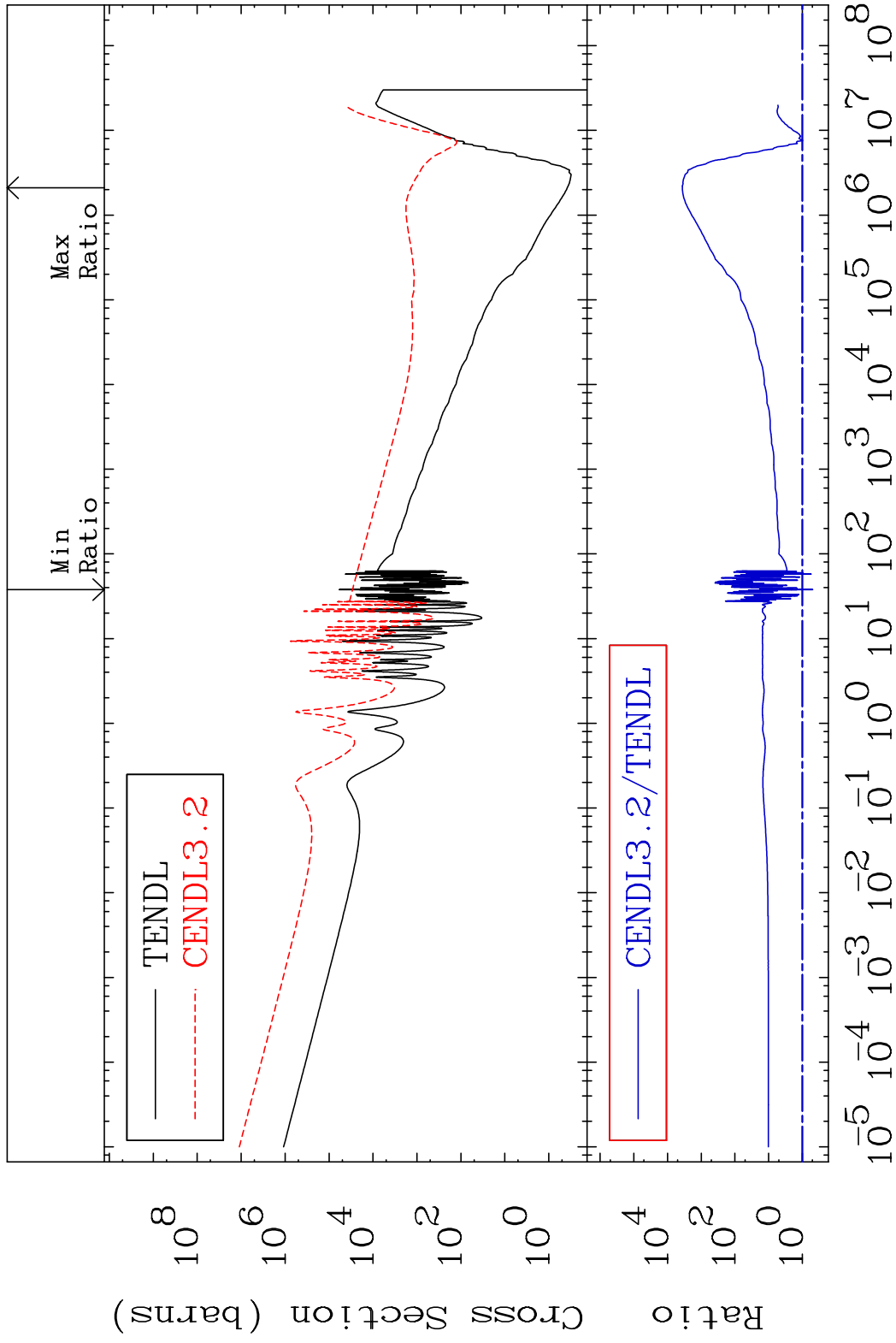
Incident Energy (eV)

63-Eu-154

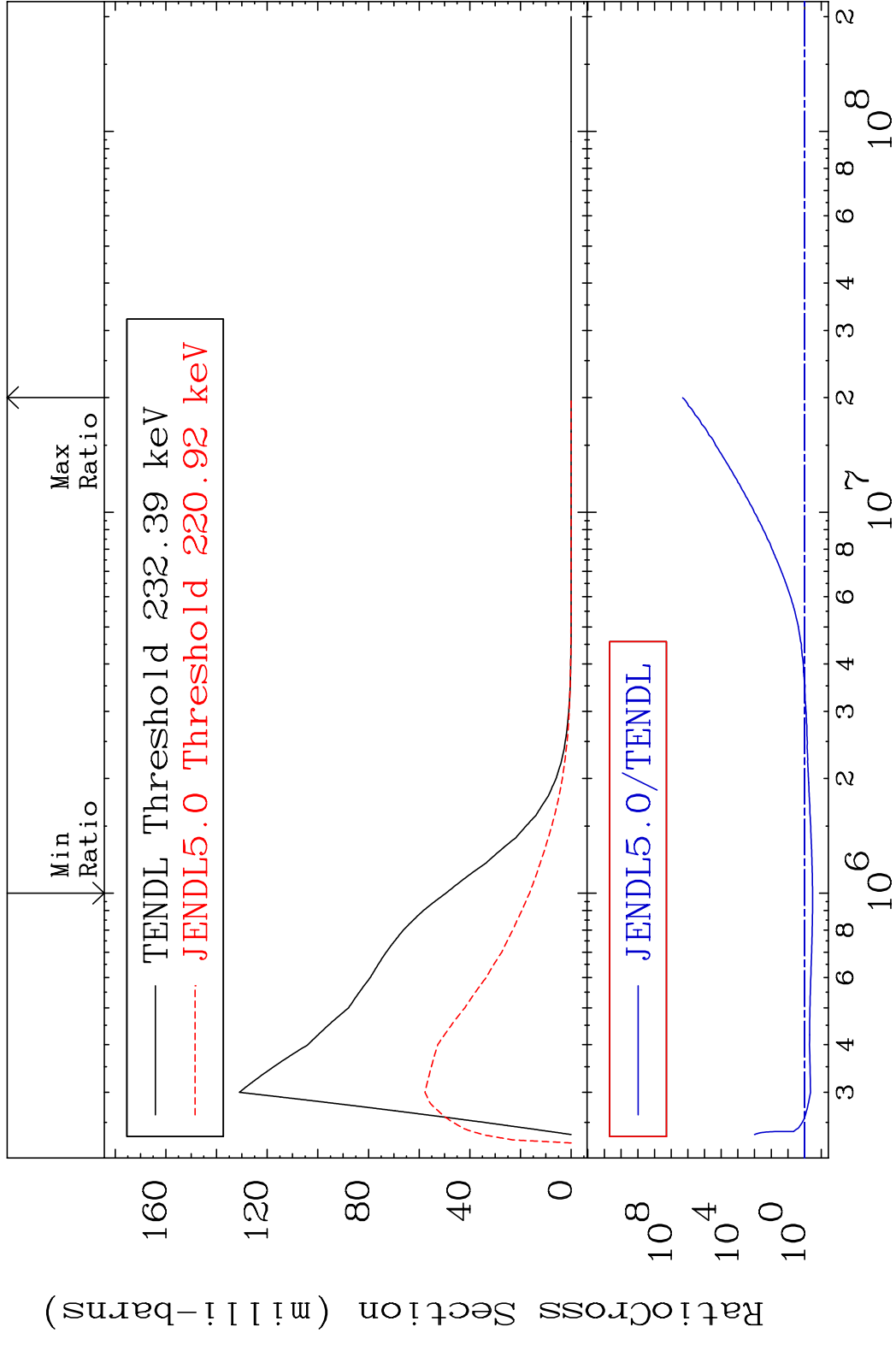
MAT 6334 Dpa inelastic (mt51-91) 63-Eu-154
 Cross Section -100.0 To 705.2 %



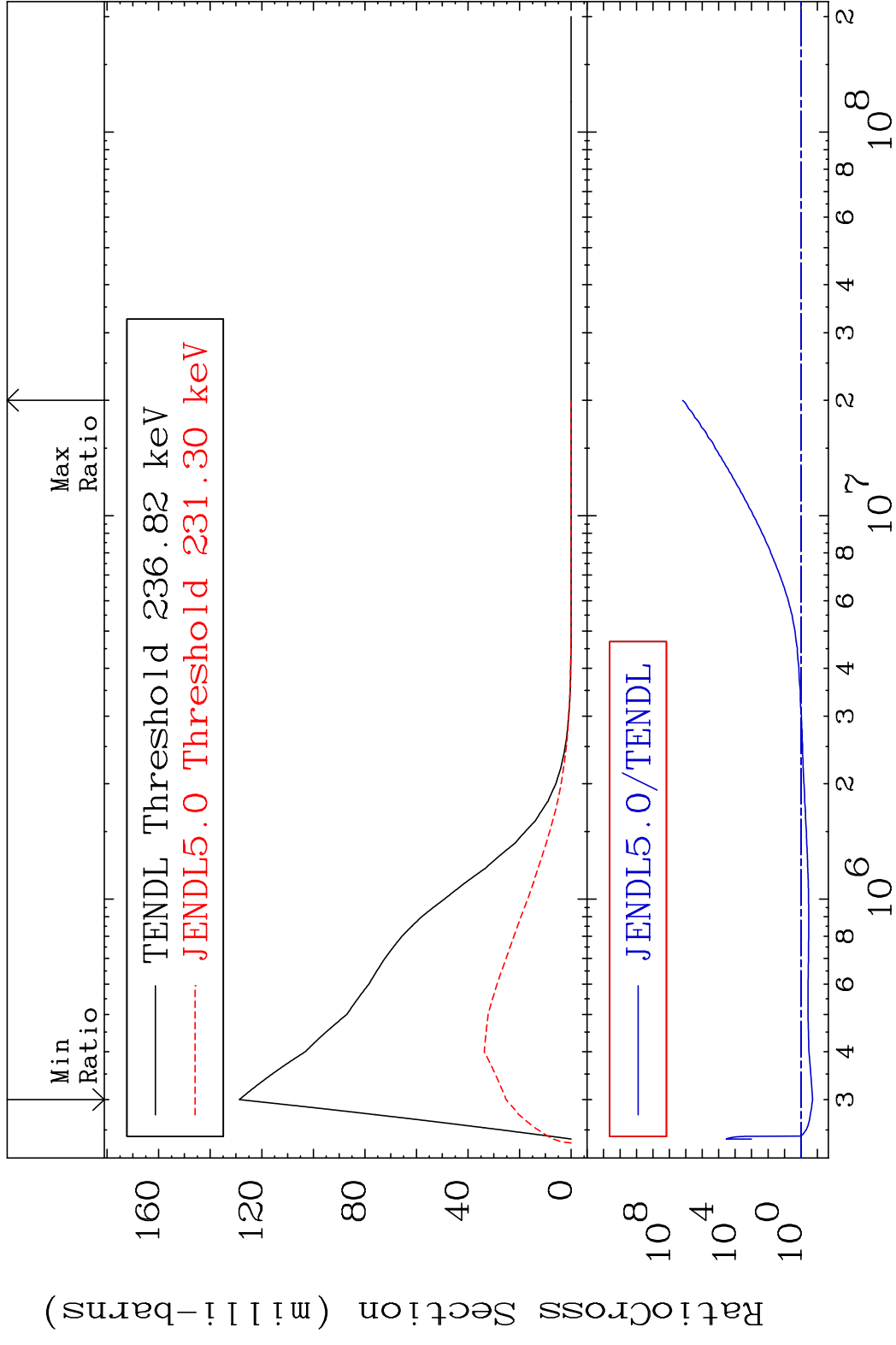
MAT 6334 Dpa disappearance (mt102 -120) 63-Eu-154
 Cross Section -50.37 To 9999. %



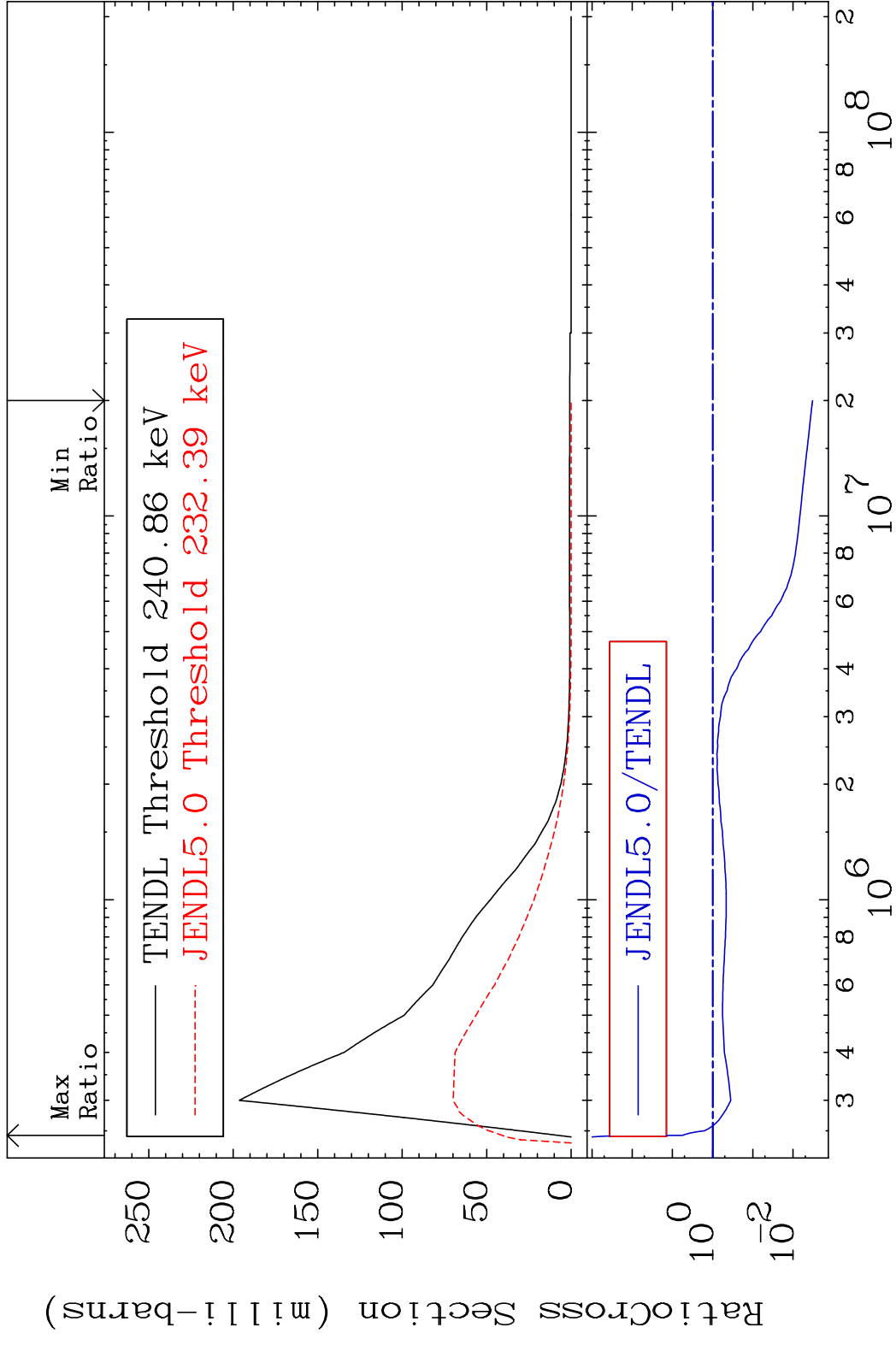
MAT 6334 MT= 76 (n,n') Level 63-Eu-154
 Cross Section -66.74 To 9999. %



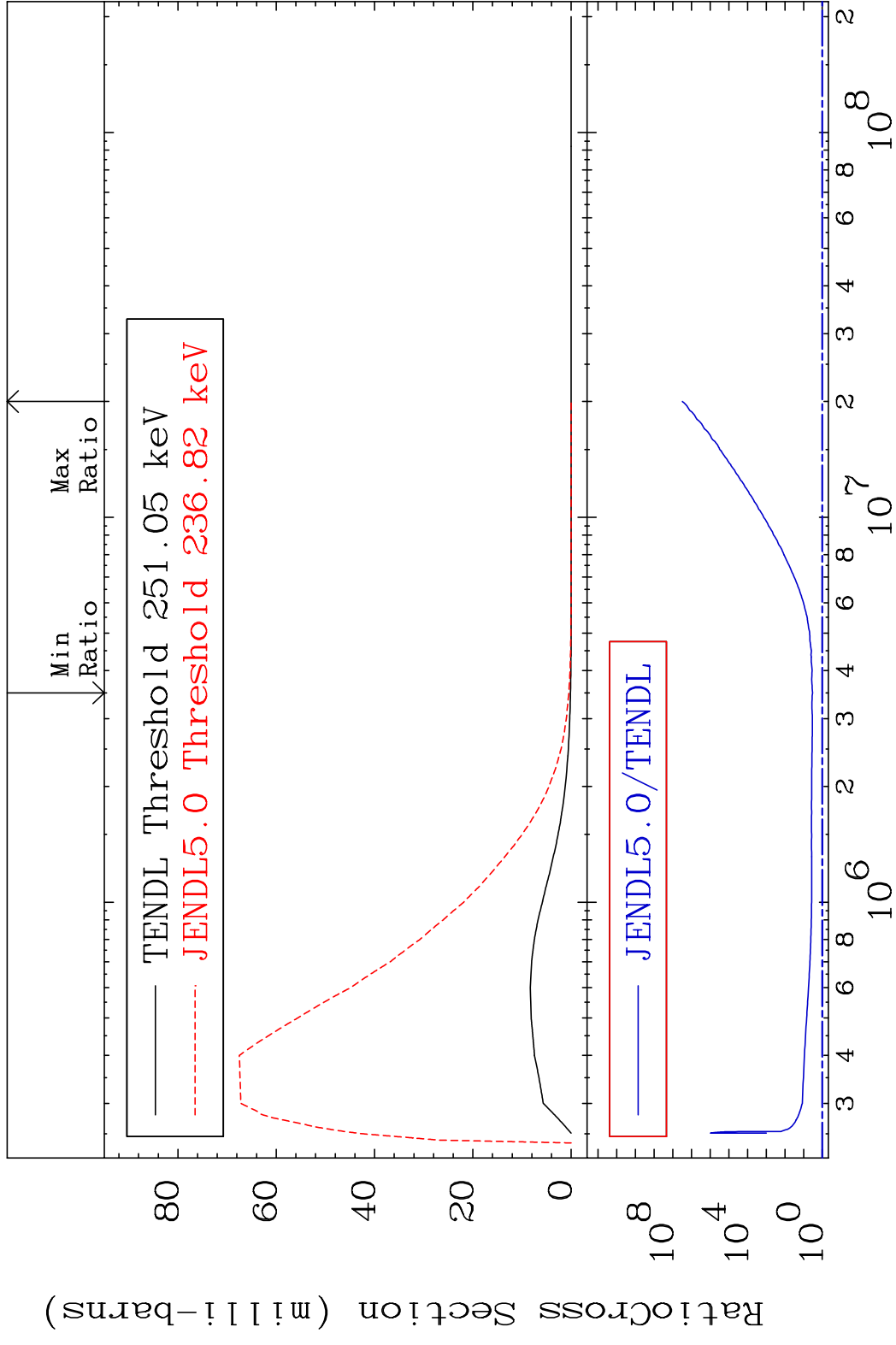
MAT 6334 MT= 77 (n,n') Level 63-Eu-154
 Cross Section -80.39 To 9999. %



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

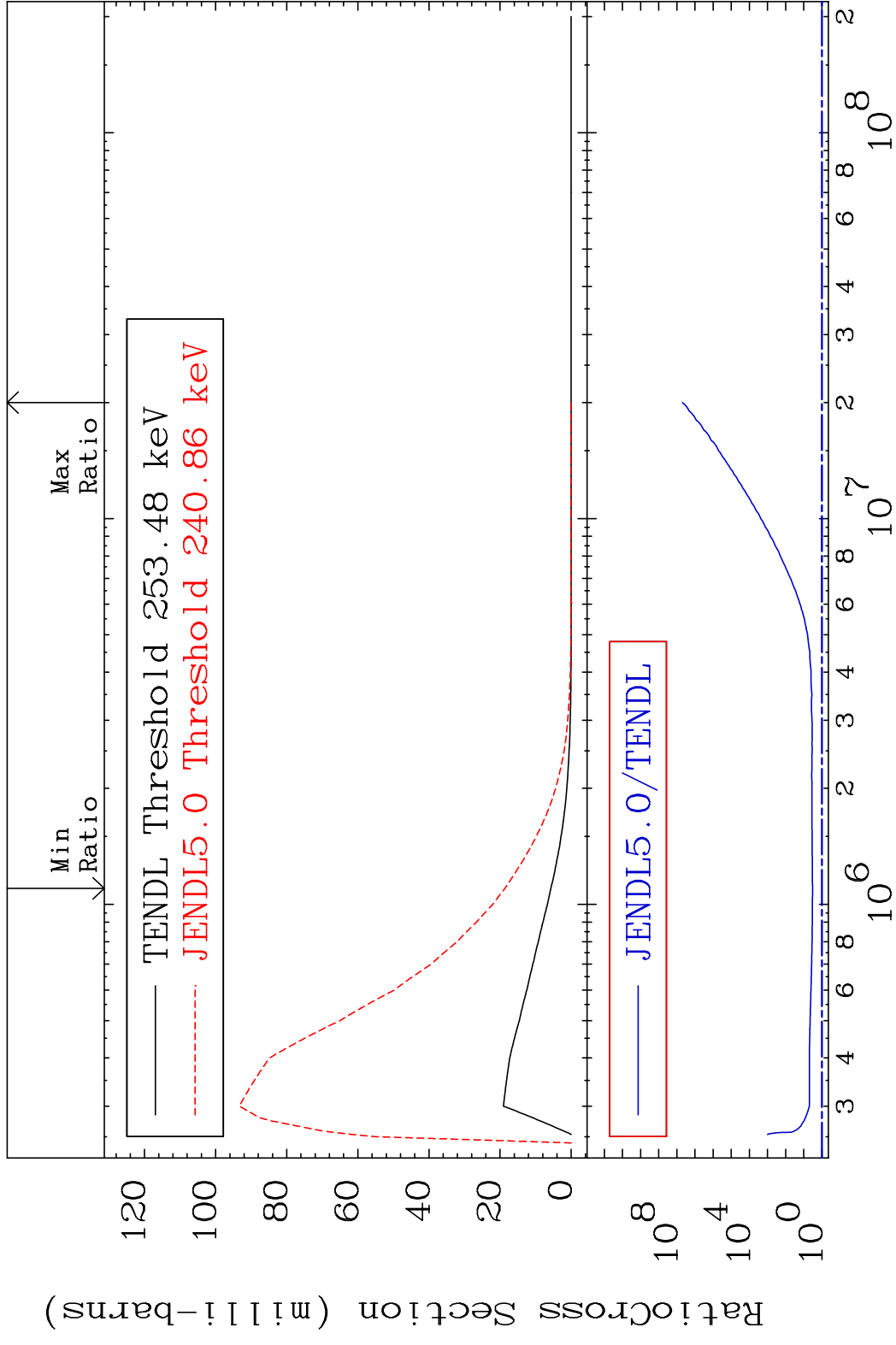


MAT 6334 MT= 79 (n, n') Level 63-Eu-154
 Cross Section 232.0 To 9999. %



40 Incident Energy (eV) 63-Eu-154

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

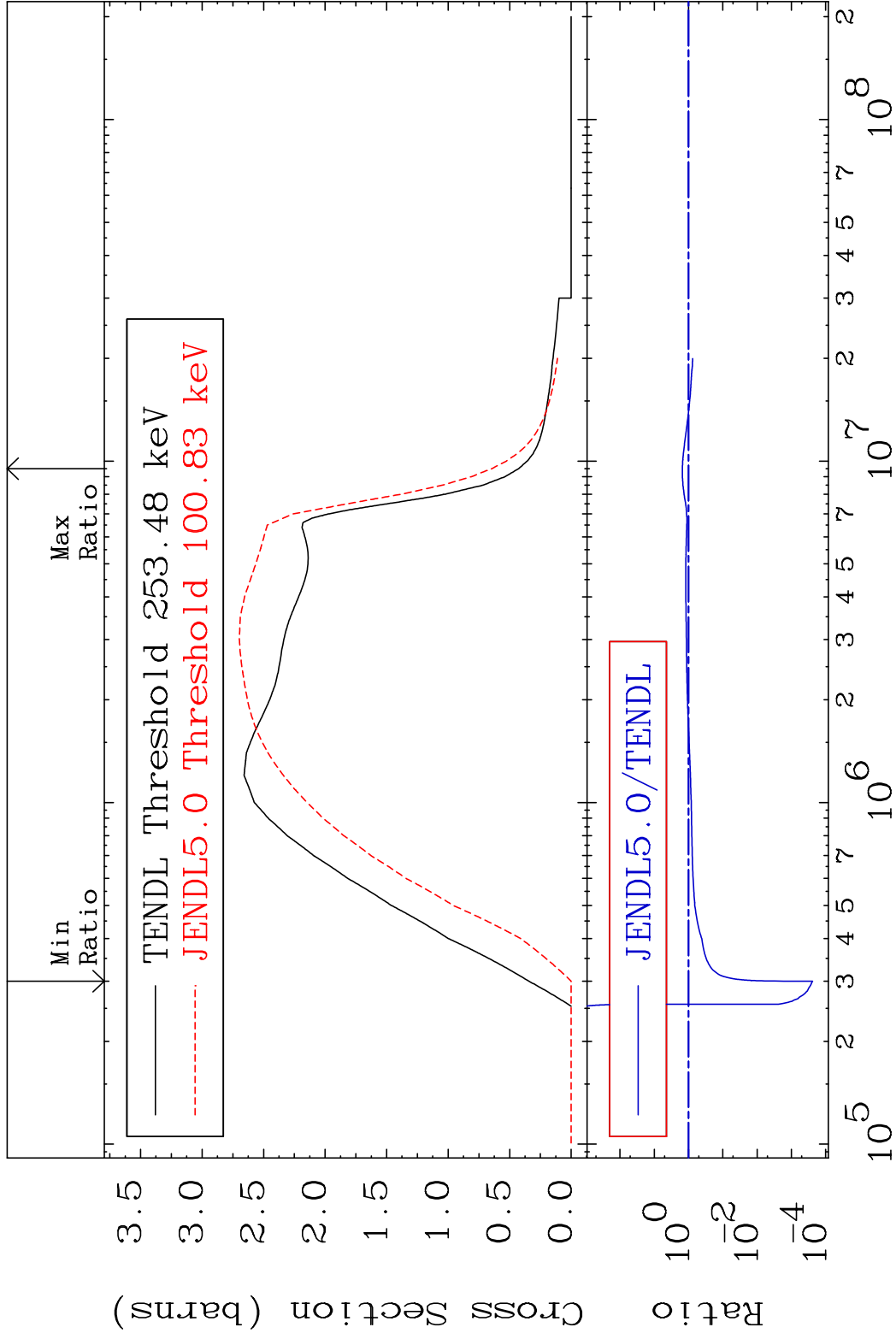


MAT 6334

(n, n') Continuum

63-Eu-154

Cross Section -99.98 To 51.36 %



42

Incident Energy (eV)

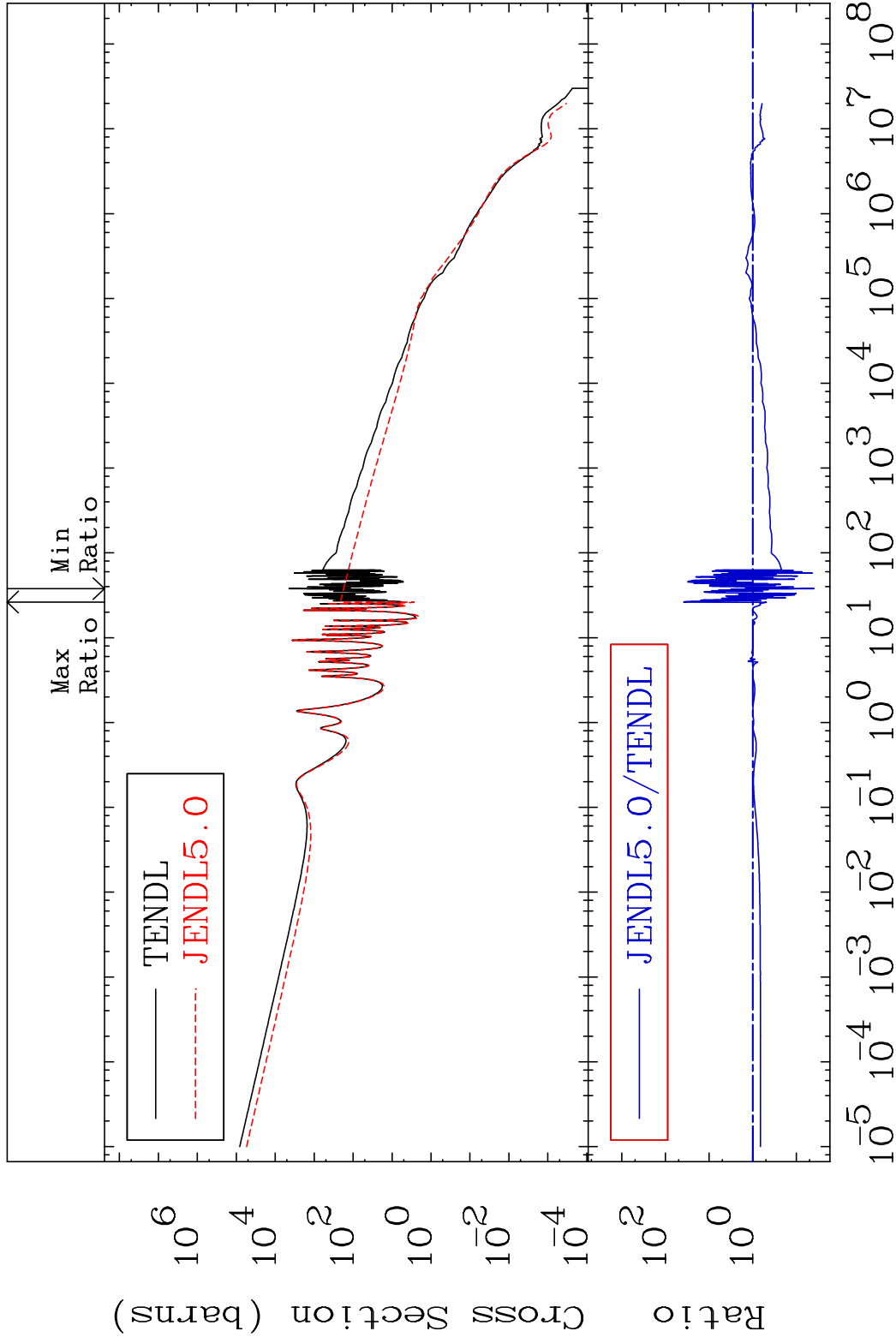
63-Eu-154

MAT 6334

(n, γ)

63-Eu-154

Cross Section -96.07 To 3730. %



43

Incident Energy (eV)

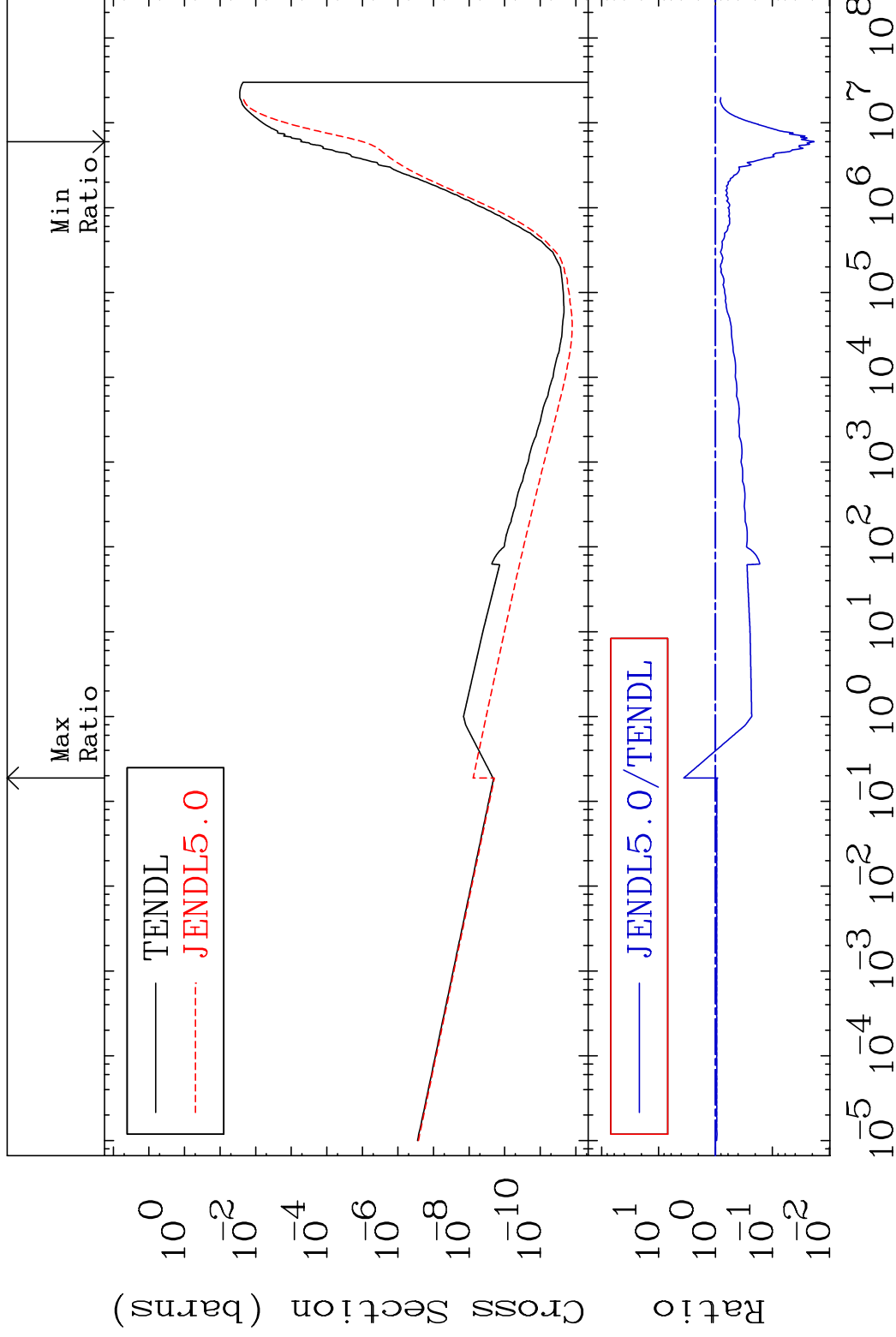
63-Eu-154

MAT 6334

(n, p)

63-Eu-154

Cross Section -98.15 To 262.3 %

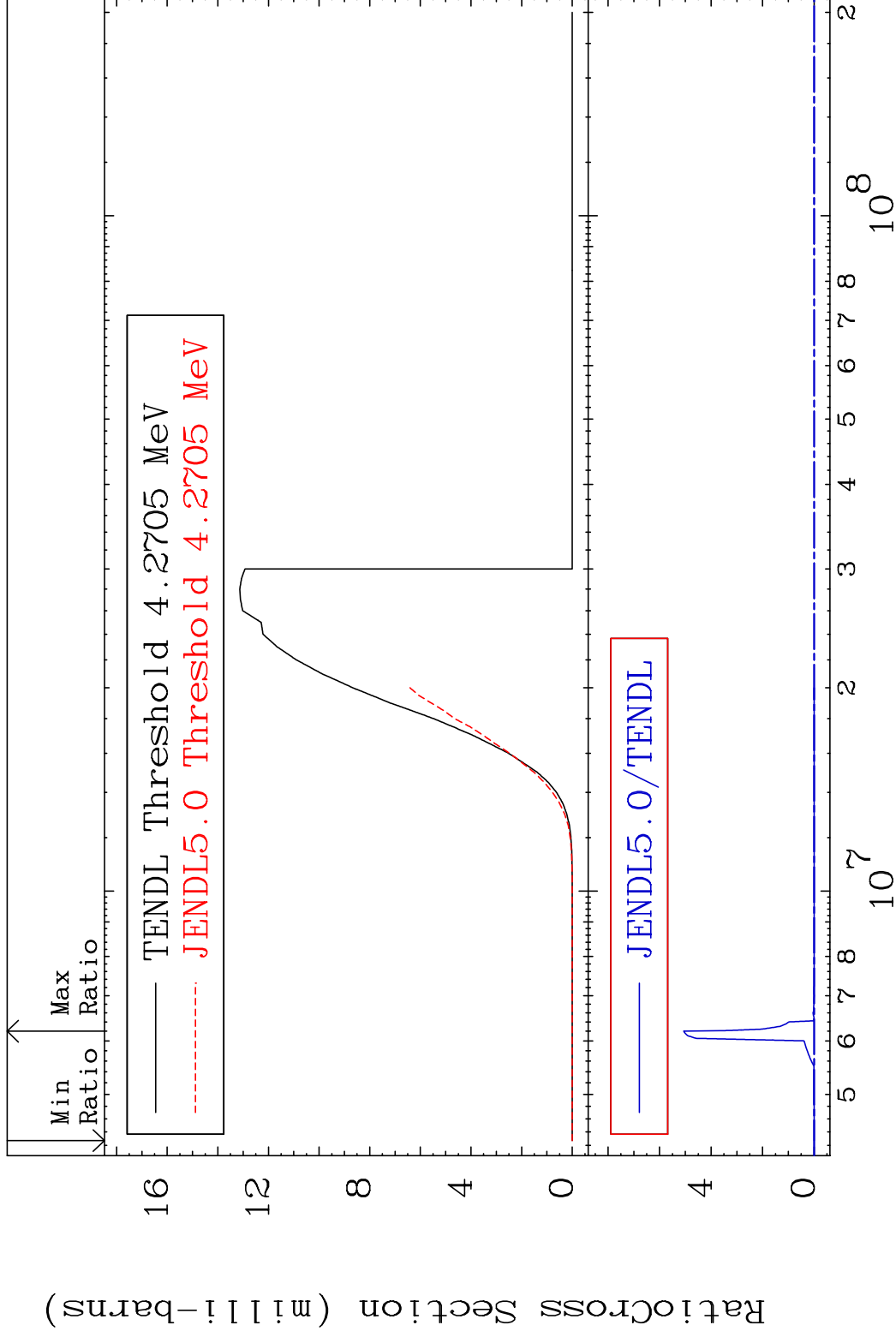


MAT 6334

(n,d)

63-Eu-154

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

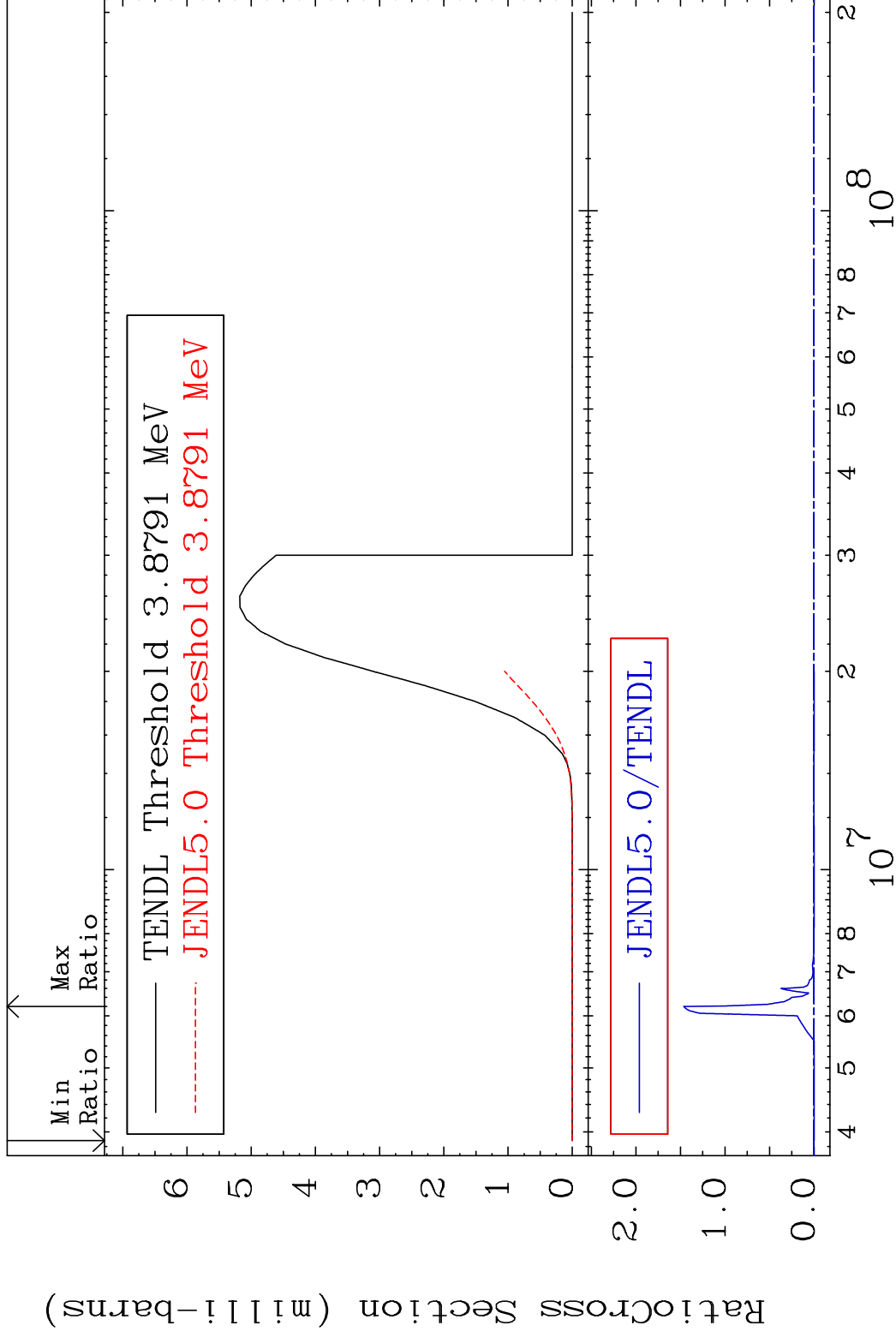
63-Eu-154

MAT 6334

(n, t)

63-Eu-154

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

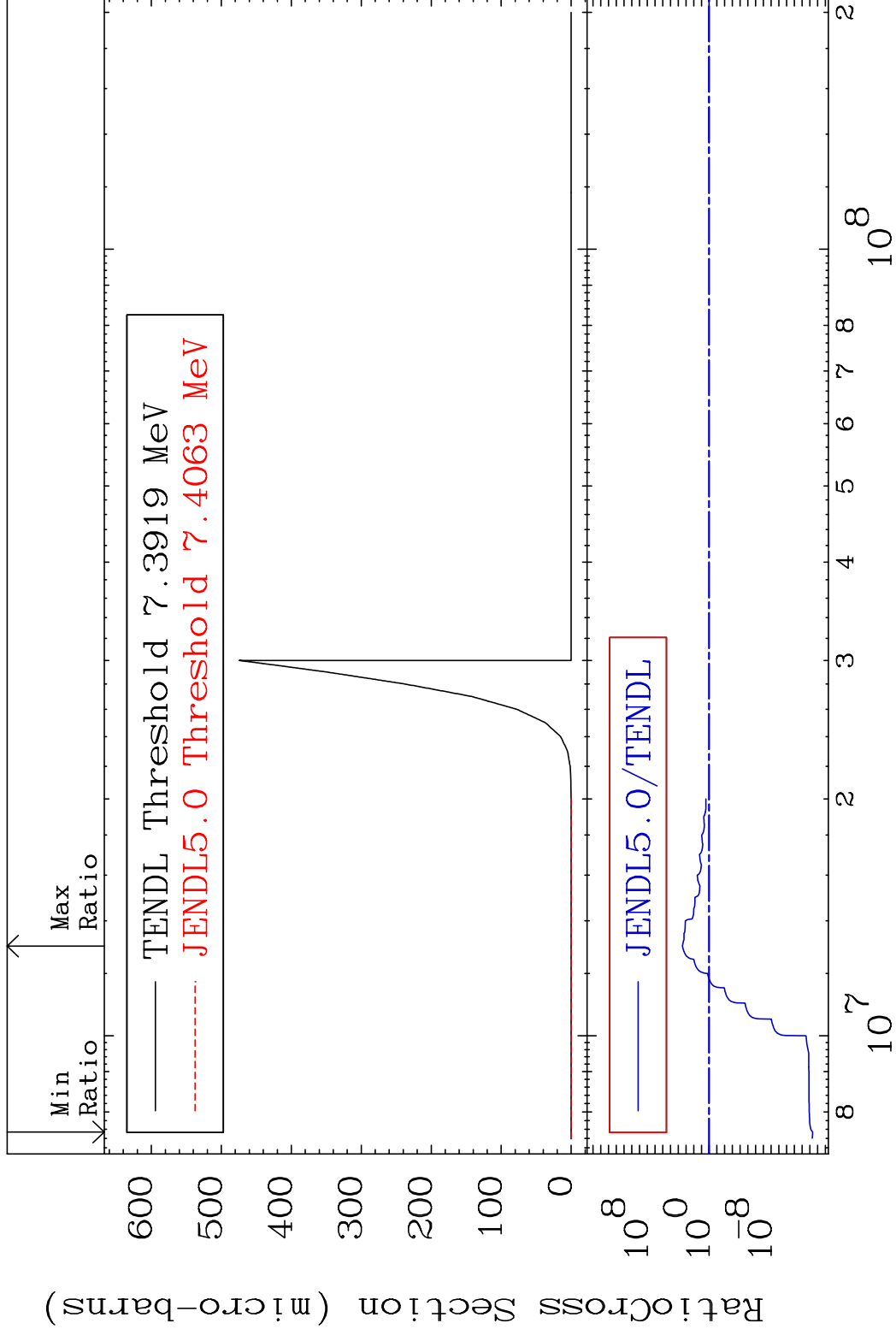
63-Eu-154

MAT 6334

(n, He-3)

63-Eu-154

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

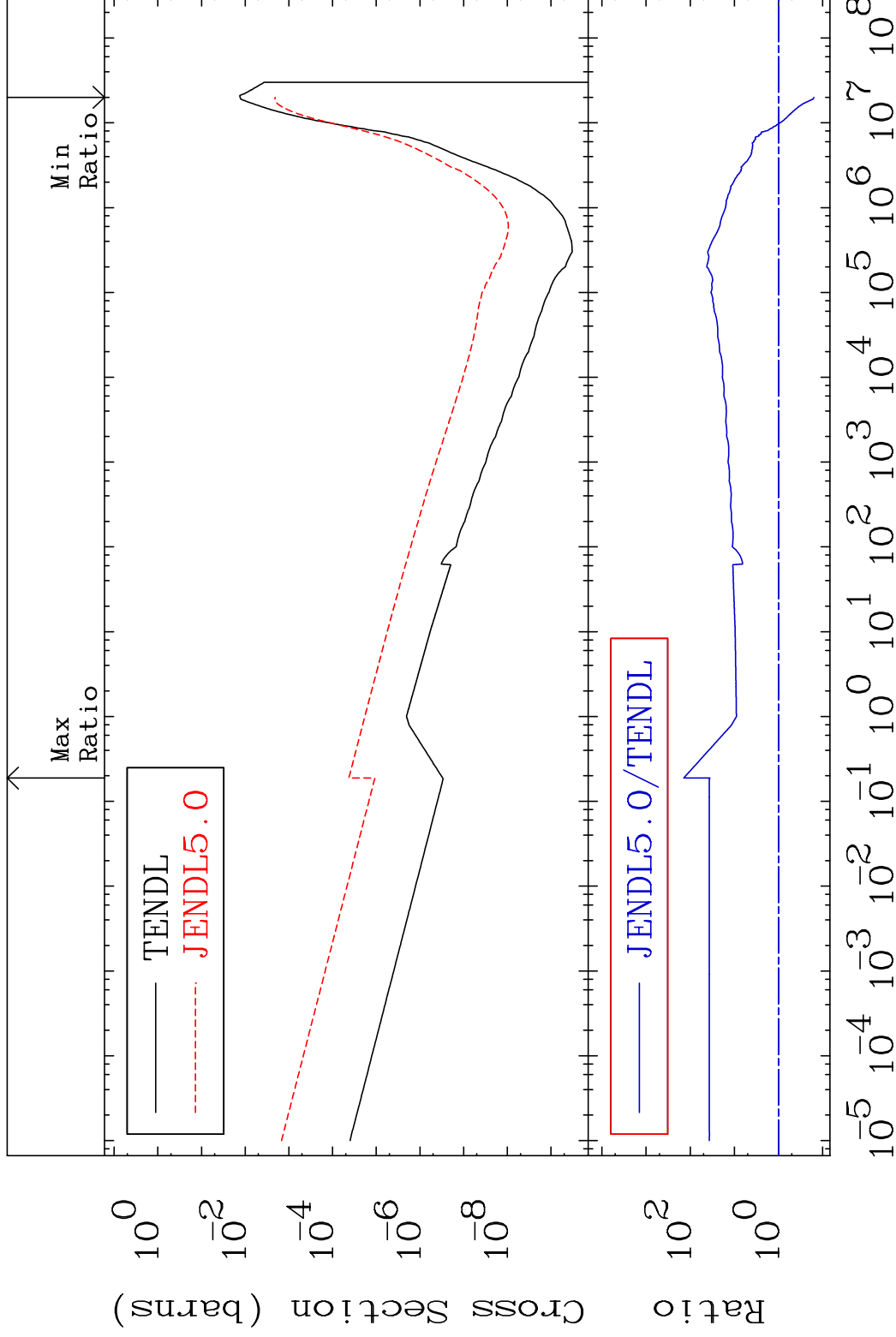
63-Eu-154

MAT 6334

(n, α)

63-Eu-154

Cross Section -84.40 To 9999. %

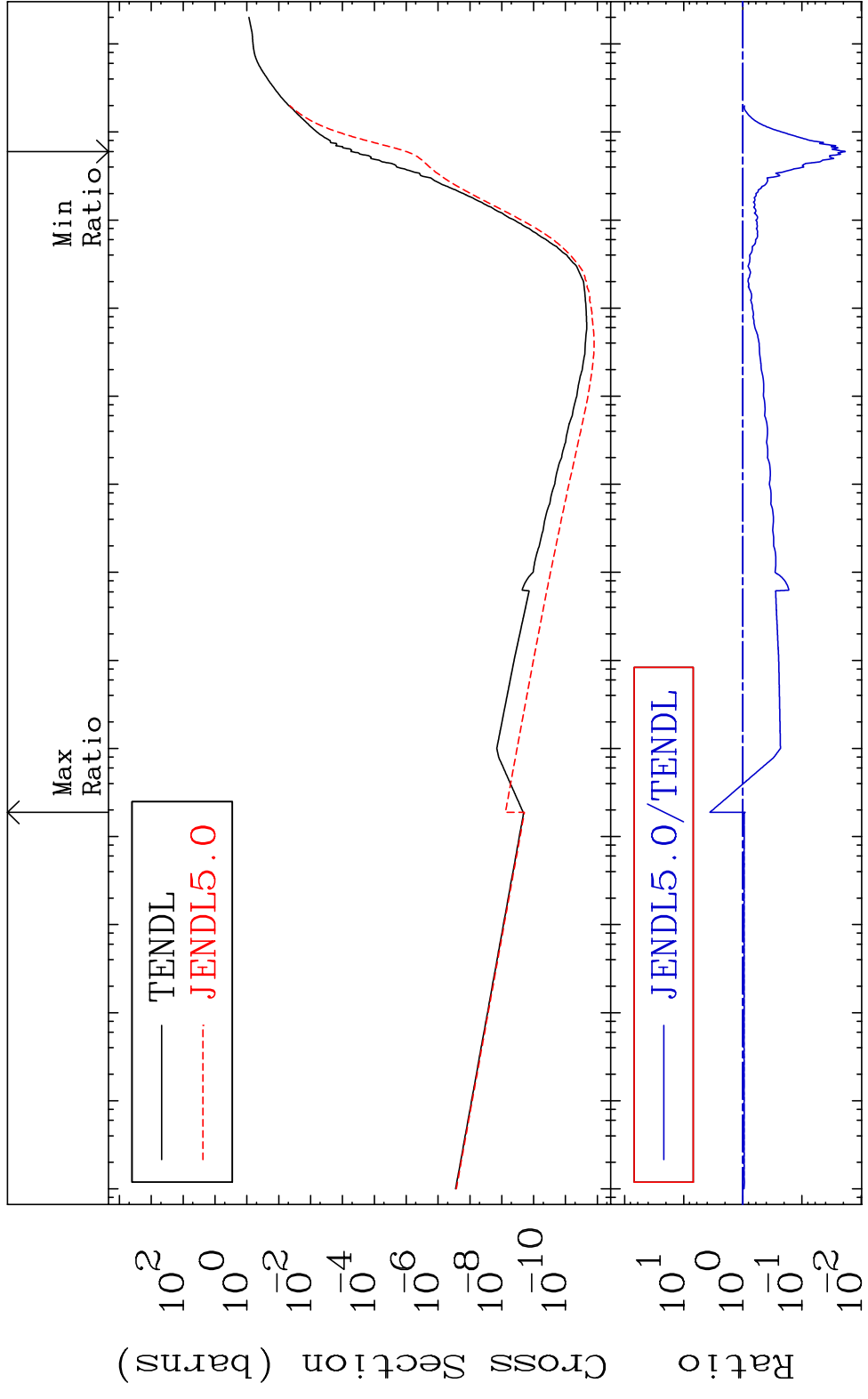


48

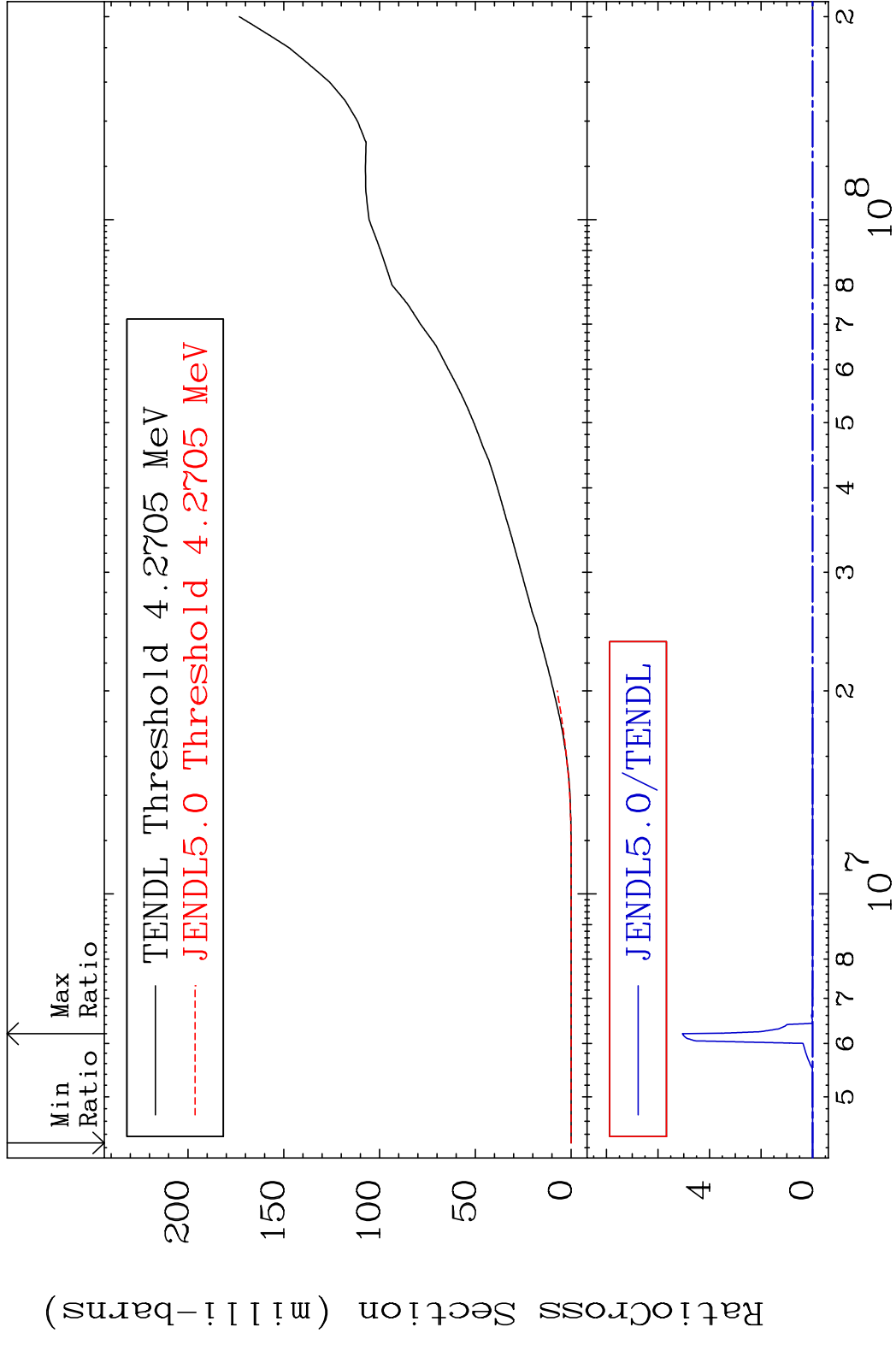
Incident Energy (eV)

63-Eu-154

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

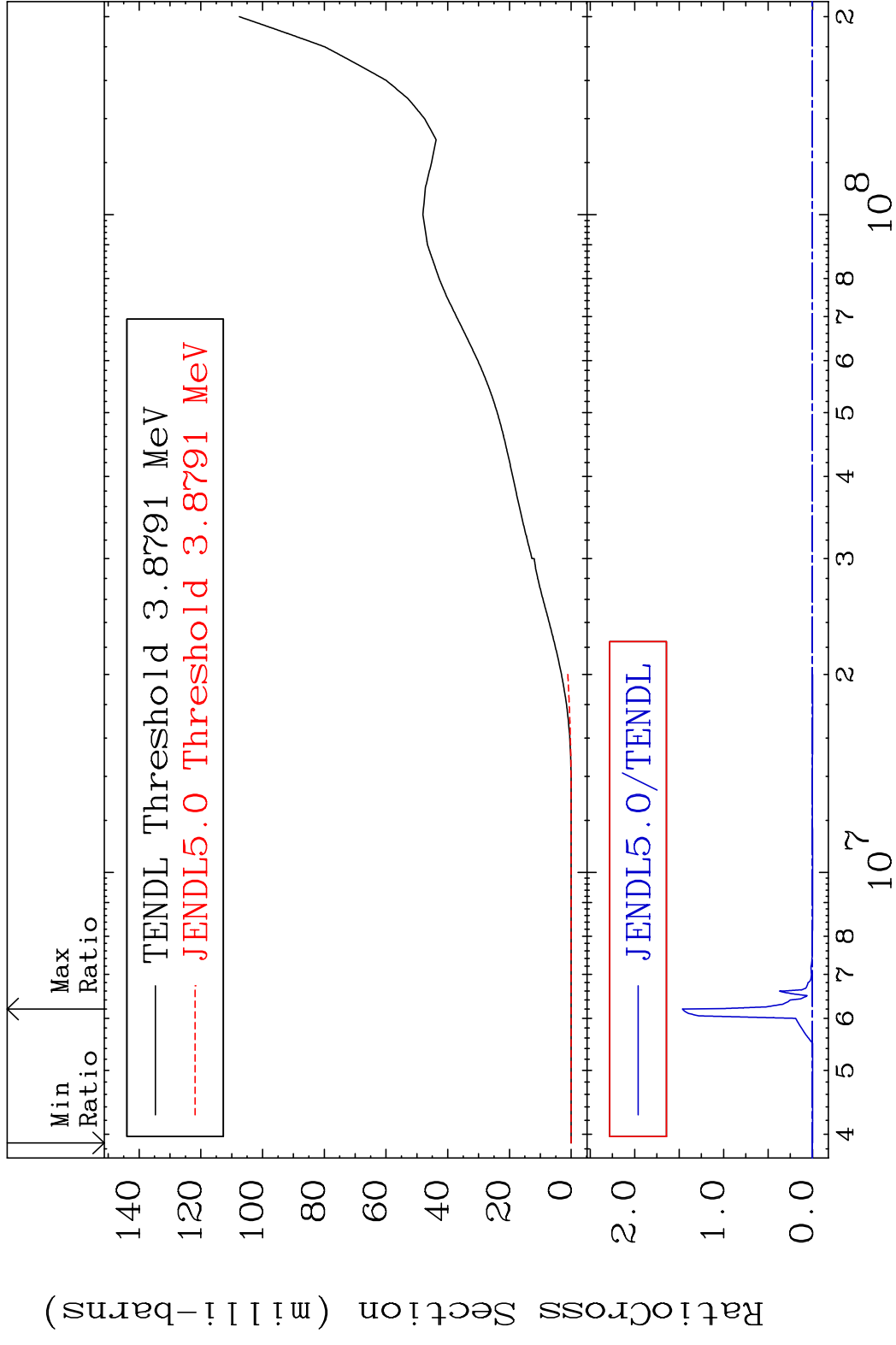


MAT 6334 Deuterium Production 63-Eu-154
 Cross Section -100.0 To 9999. %



50 Incident Energy (eV) 63-Eu-154

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

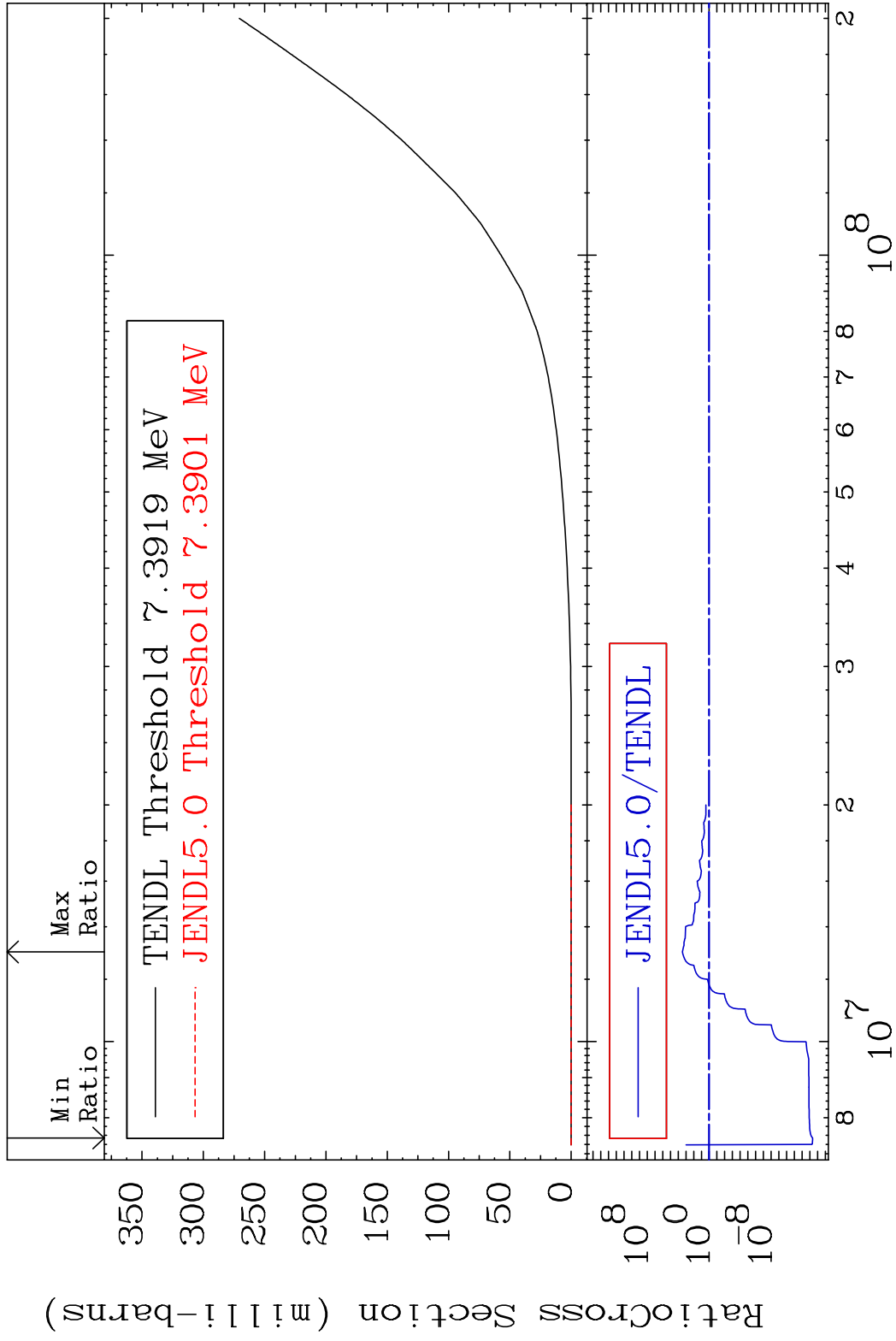


MAT 6334

He-3 Production

63-Eu-154

Cross Section -100.0 To 9999. %

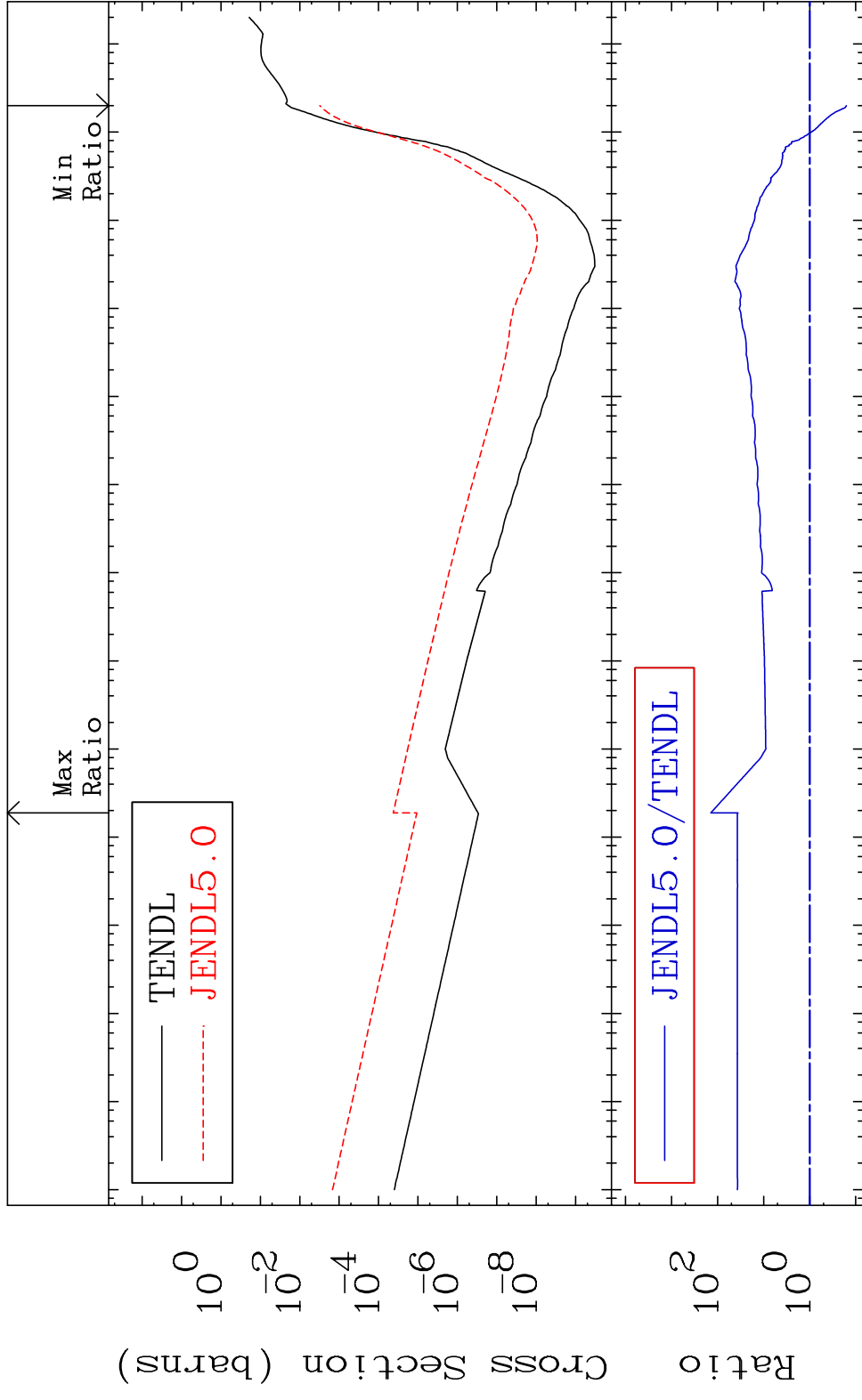


52

Incident Energy (eV)

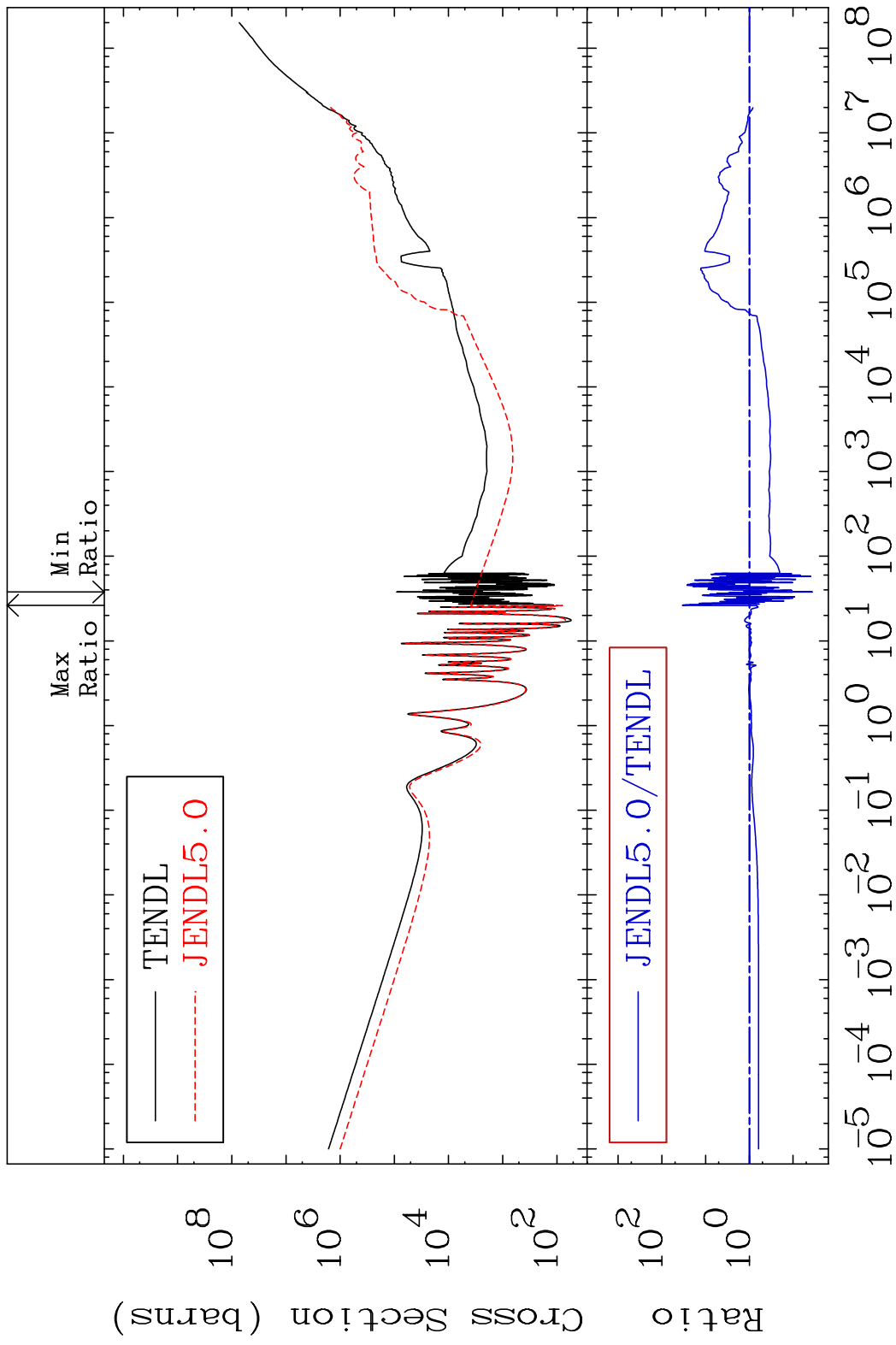
63-Eu-154

MAT 6334 He-4 Production 63-Eu-154
 Cross Section -83.99 To 9999. %



Ratio
 10^2
 10^0
 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
 Incident Energy (eV) 63-Eu-154

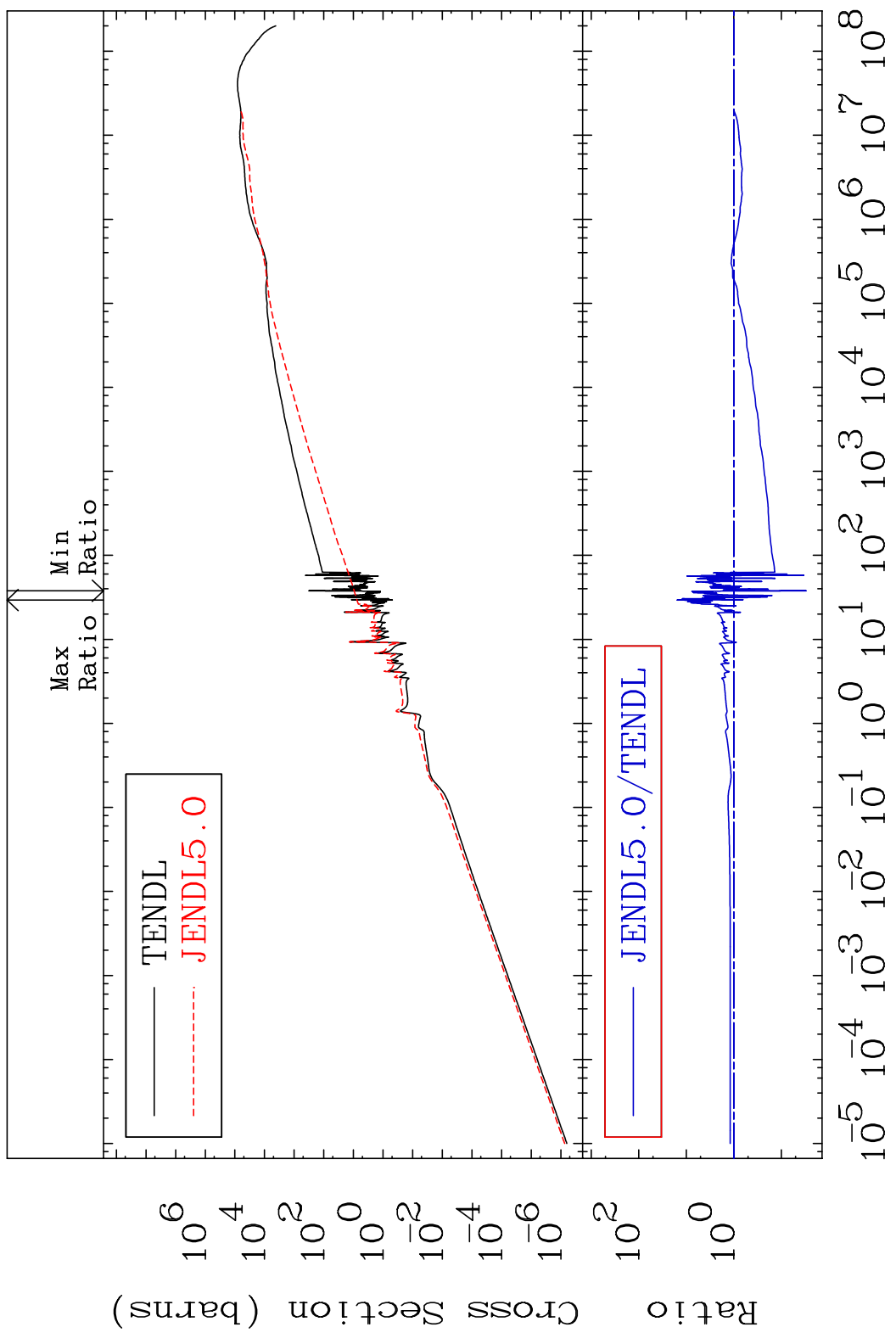
MAT 6334 Kerma total (eV-barns) 63-Eu-154
 Cross Section -96.41 To 3293. %



54 Incident Energy (eV) 63-Eu-154

MAT 6334

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

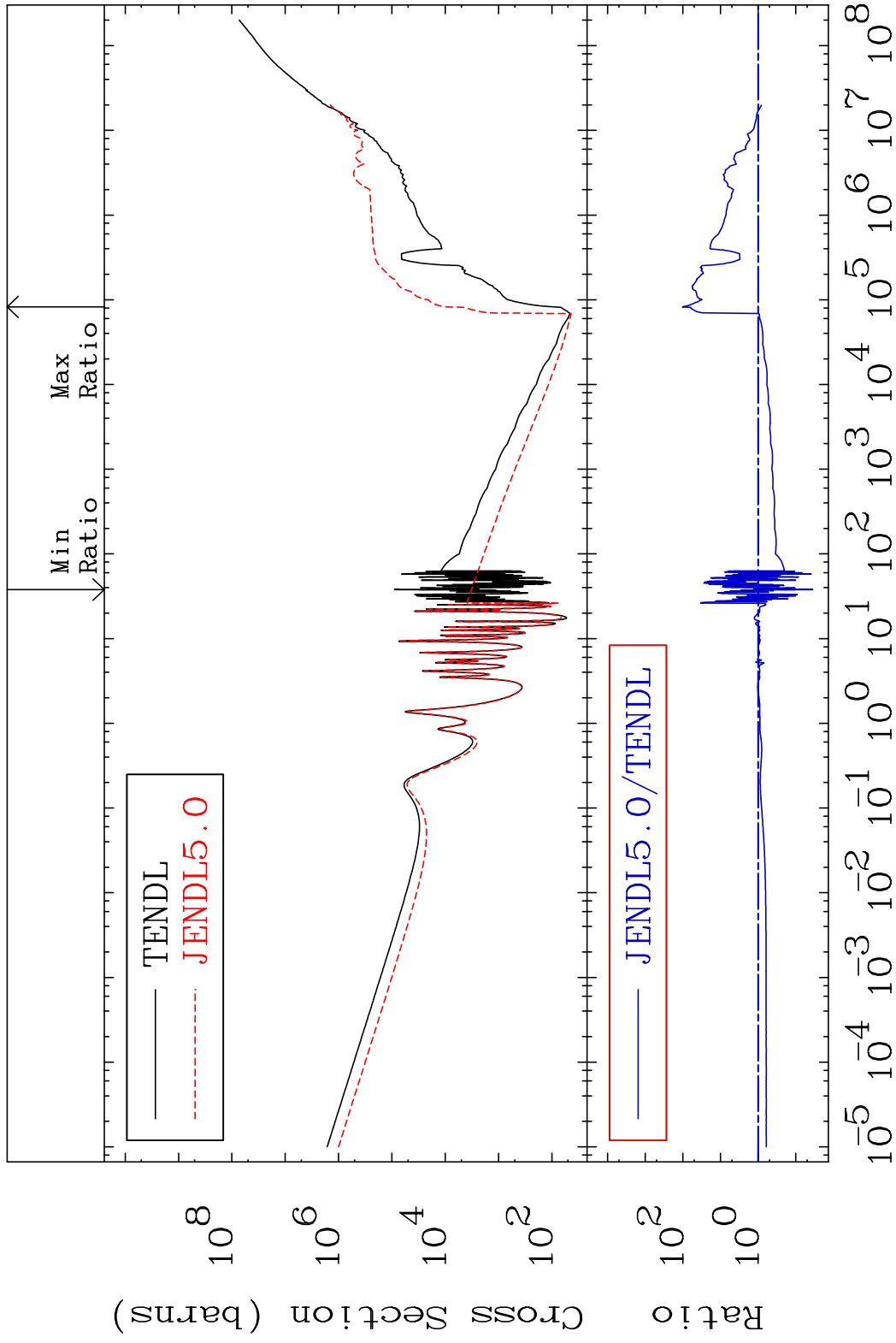


55

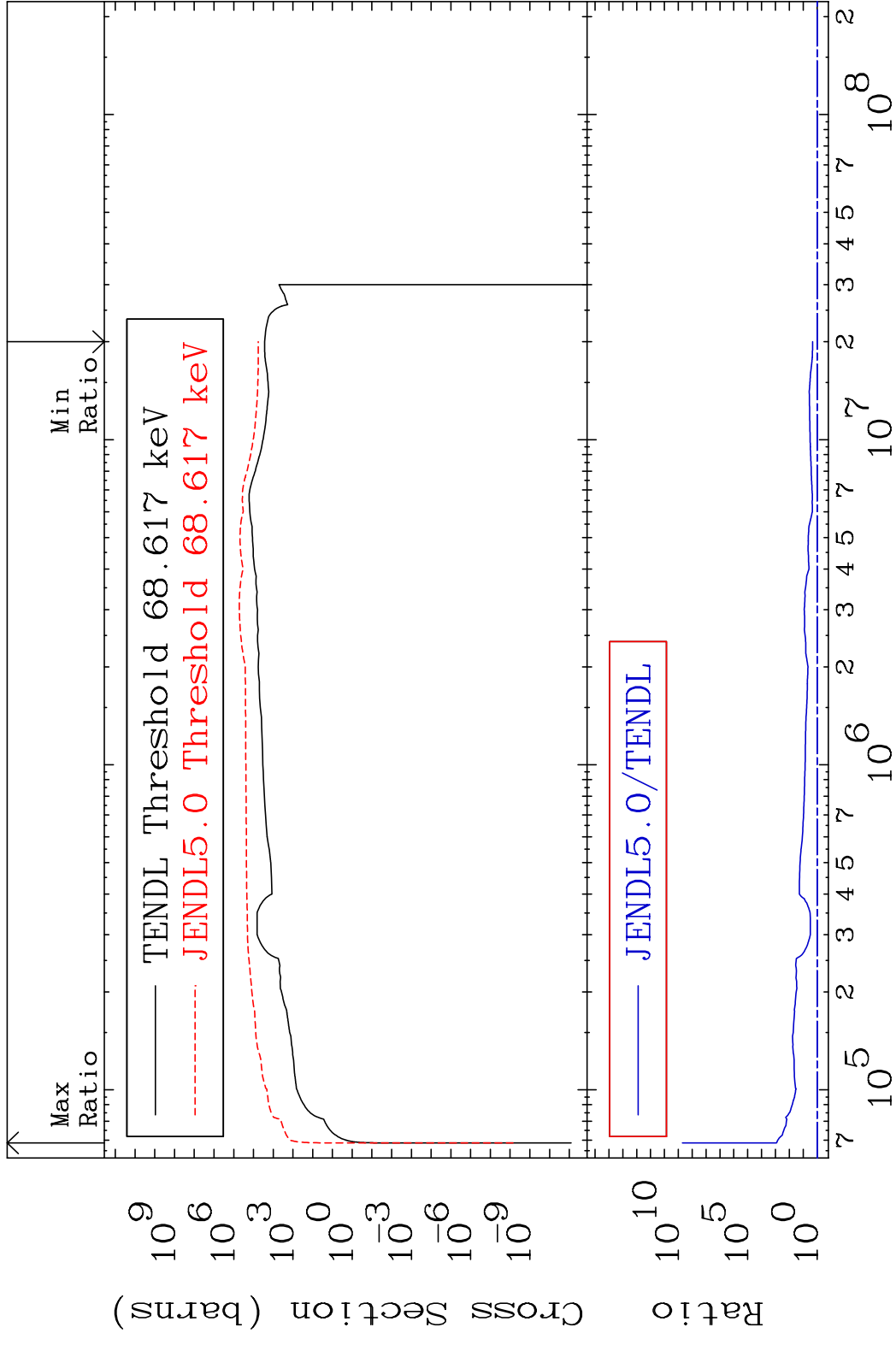
Incident Energy (eV)

63-Eu-154

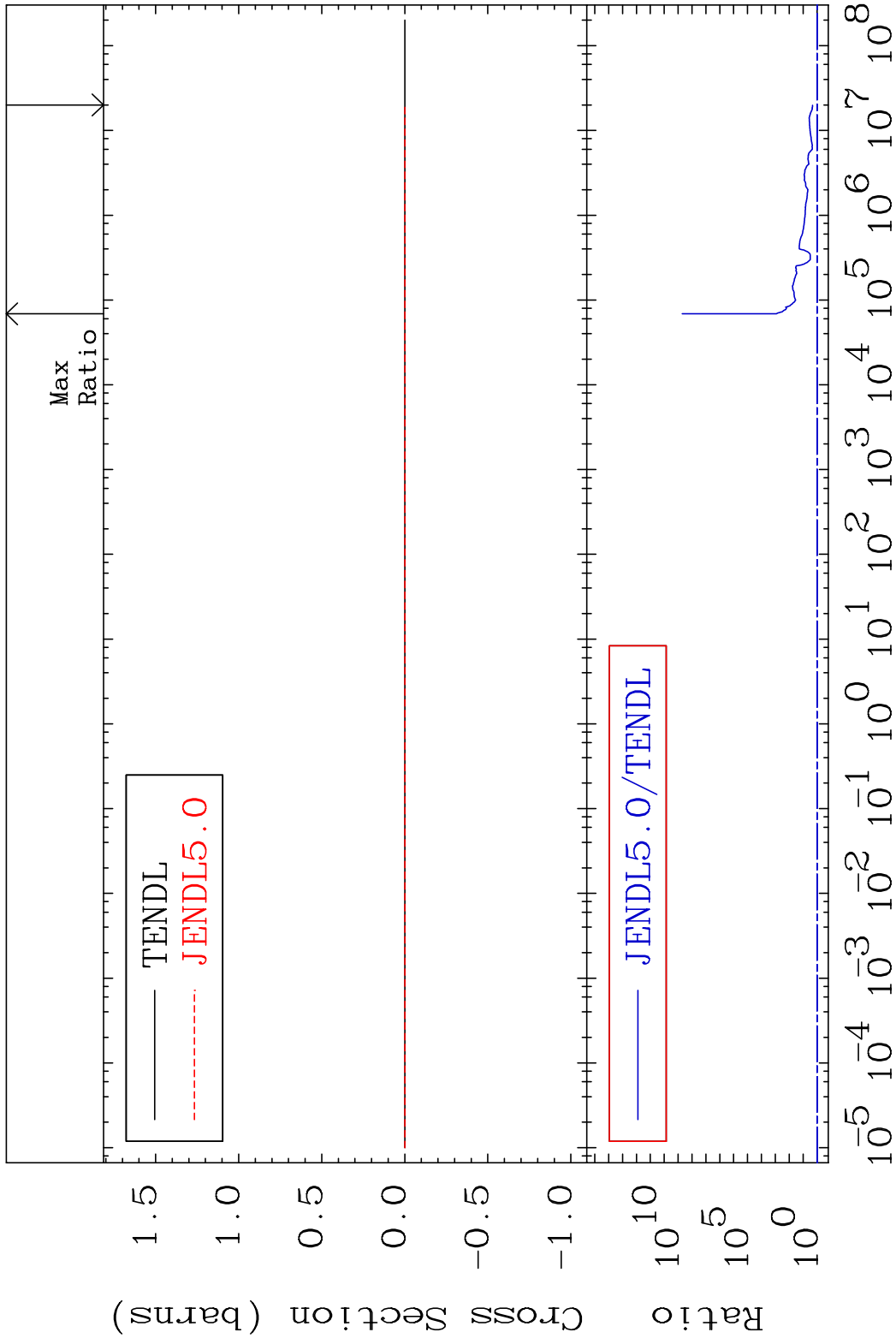
MAT 6334 Kerma non-elastic (all but mt2) 63-Eu-154
 Cross Section -96.41 To 9999. %



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

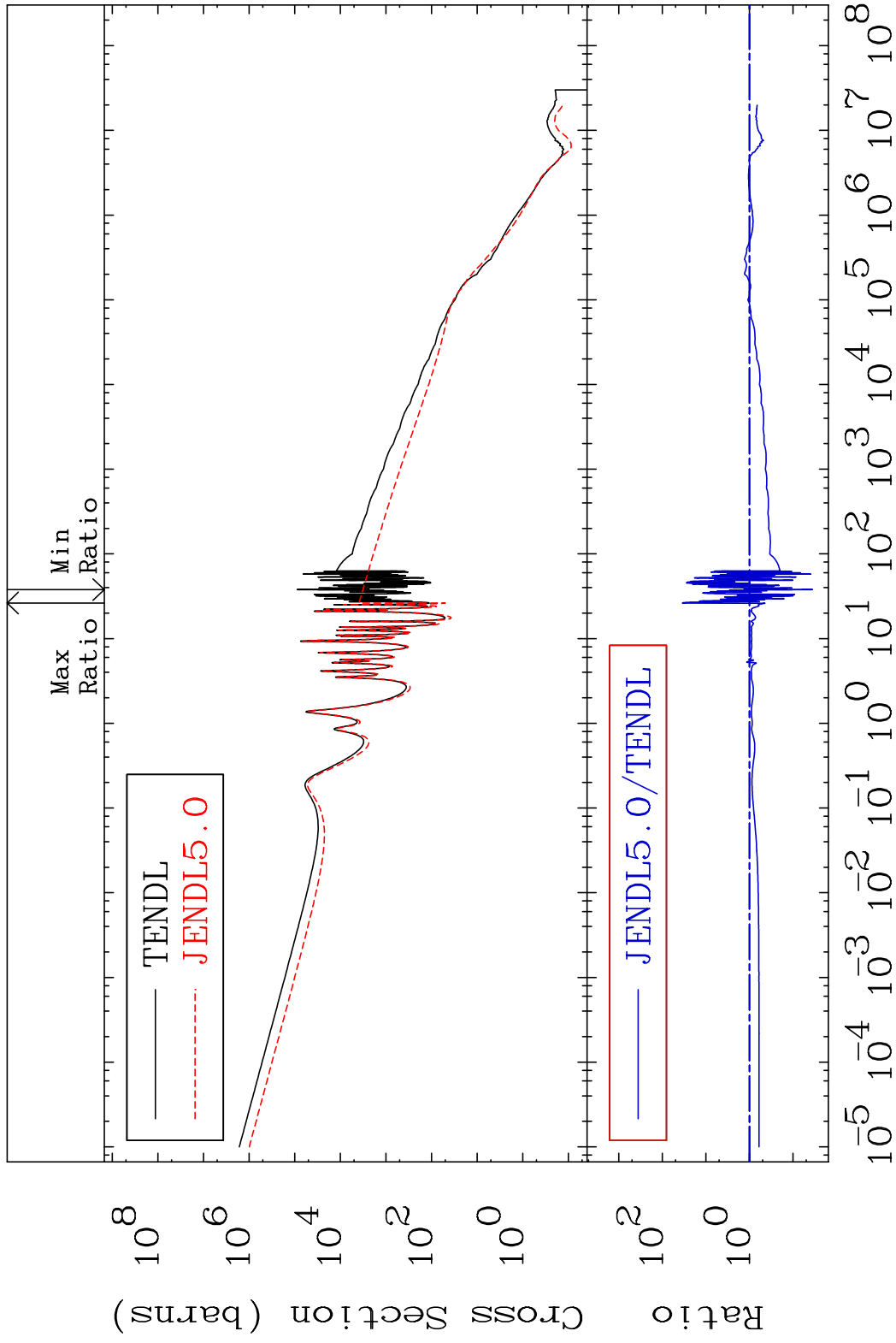


MAT 6334 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-154
 Cross Section 111.0 To 9999. %



MAT 6334

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



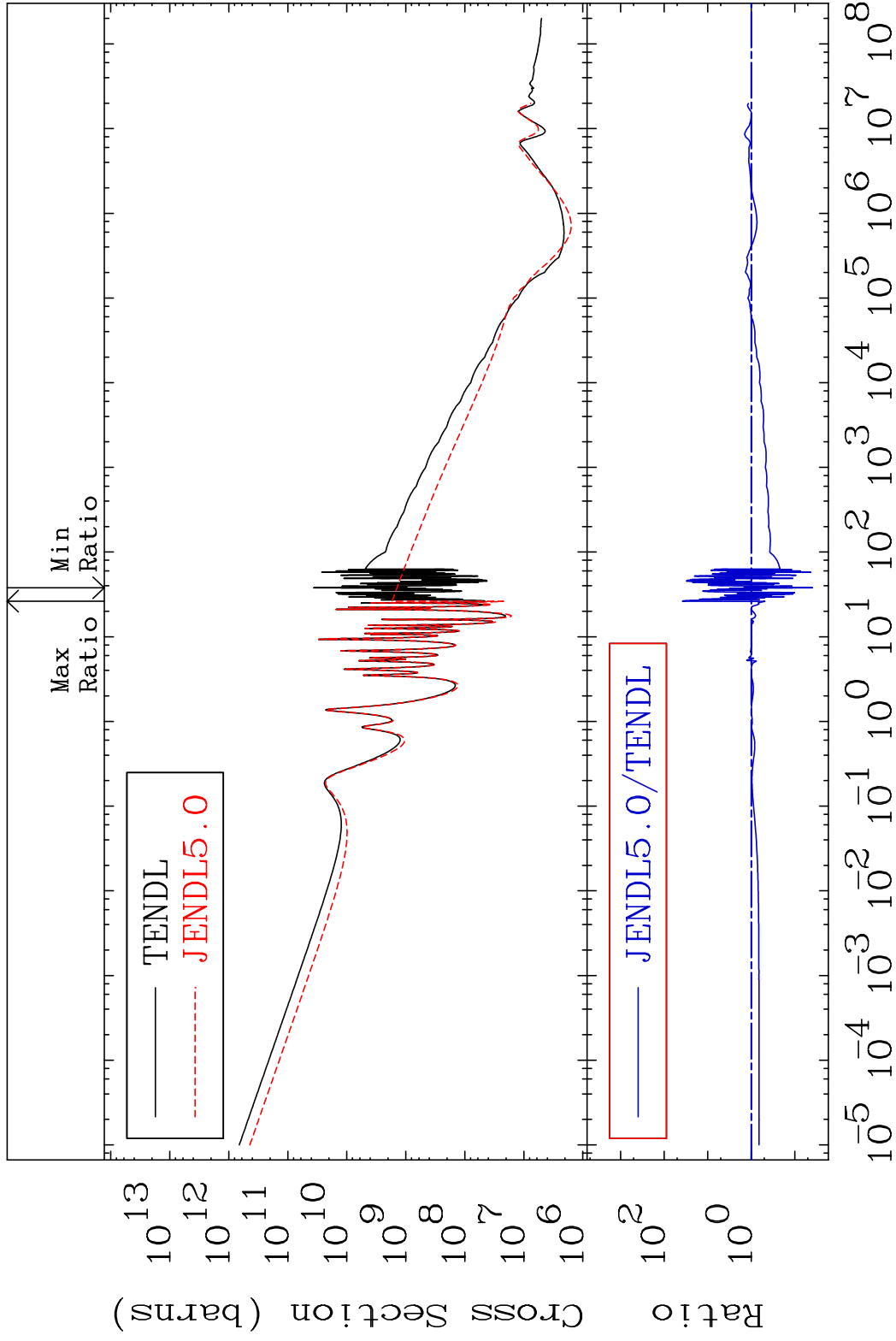
59

Incident Energy (eV)

63-Eu-154

MAT 6334

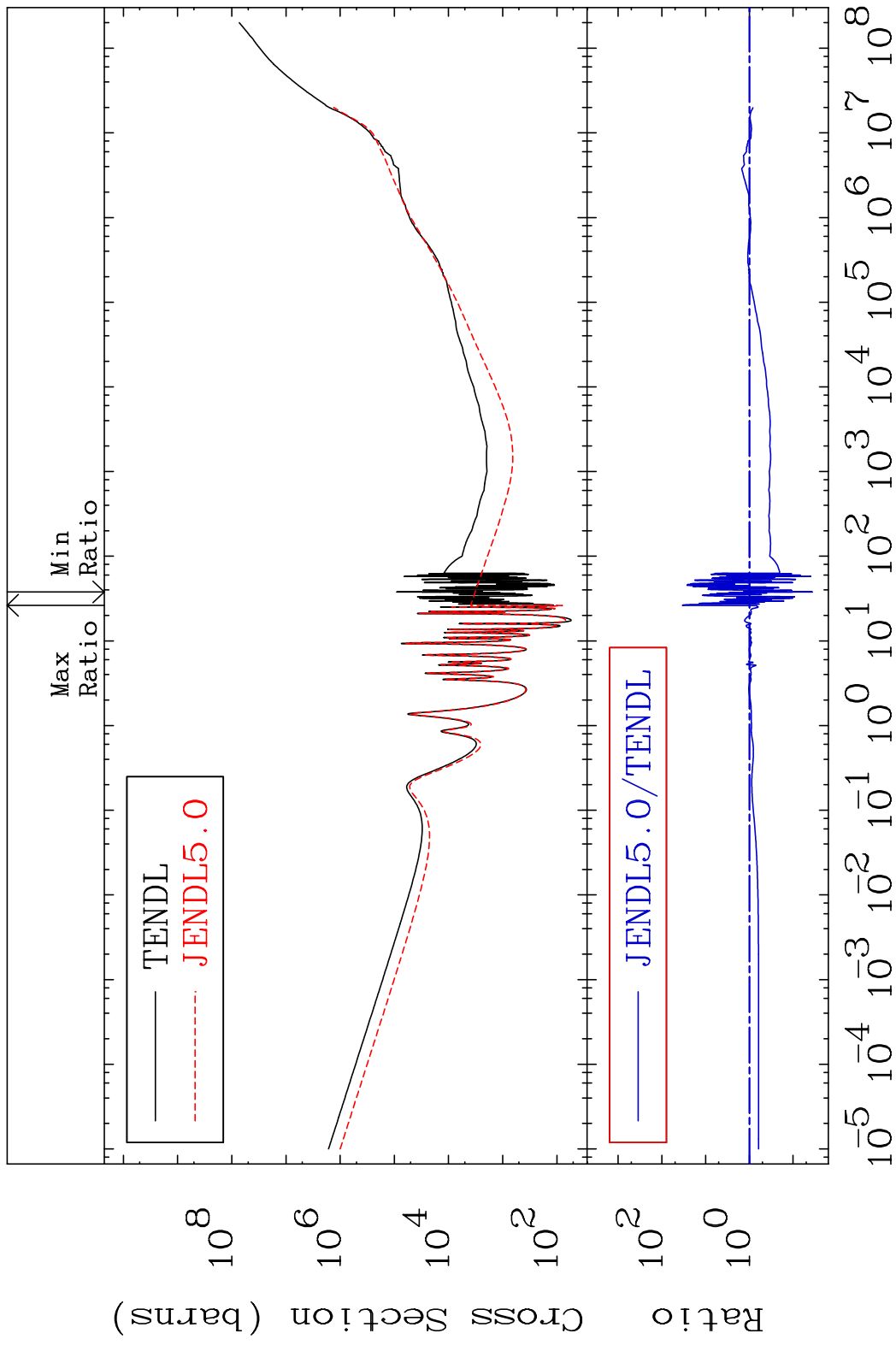
Total photon (eV-barns) 63-Eu-154
Cross Section -96.09 To 3703. %



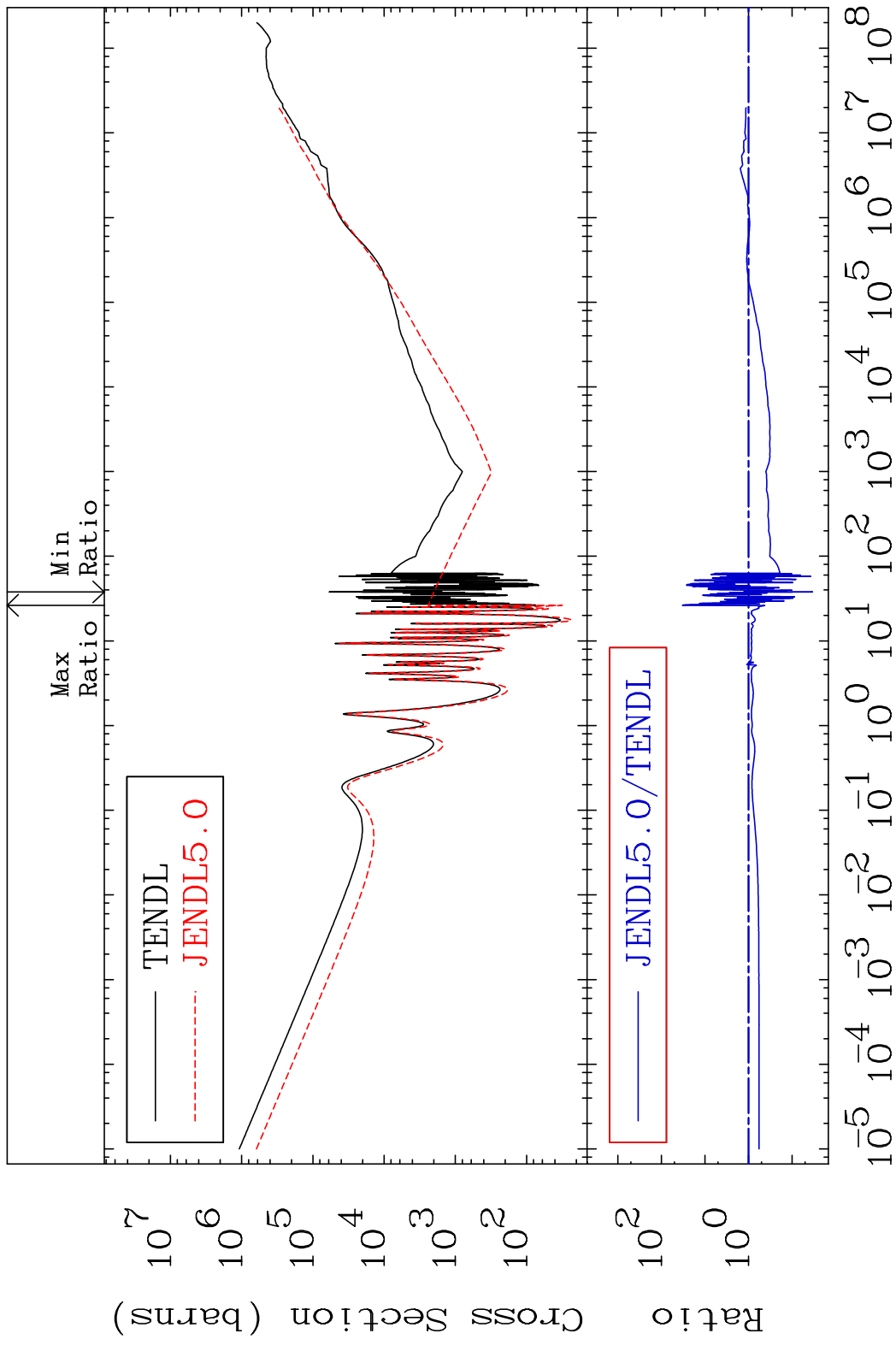
60

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. %



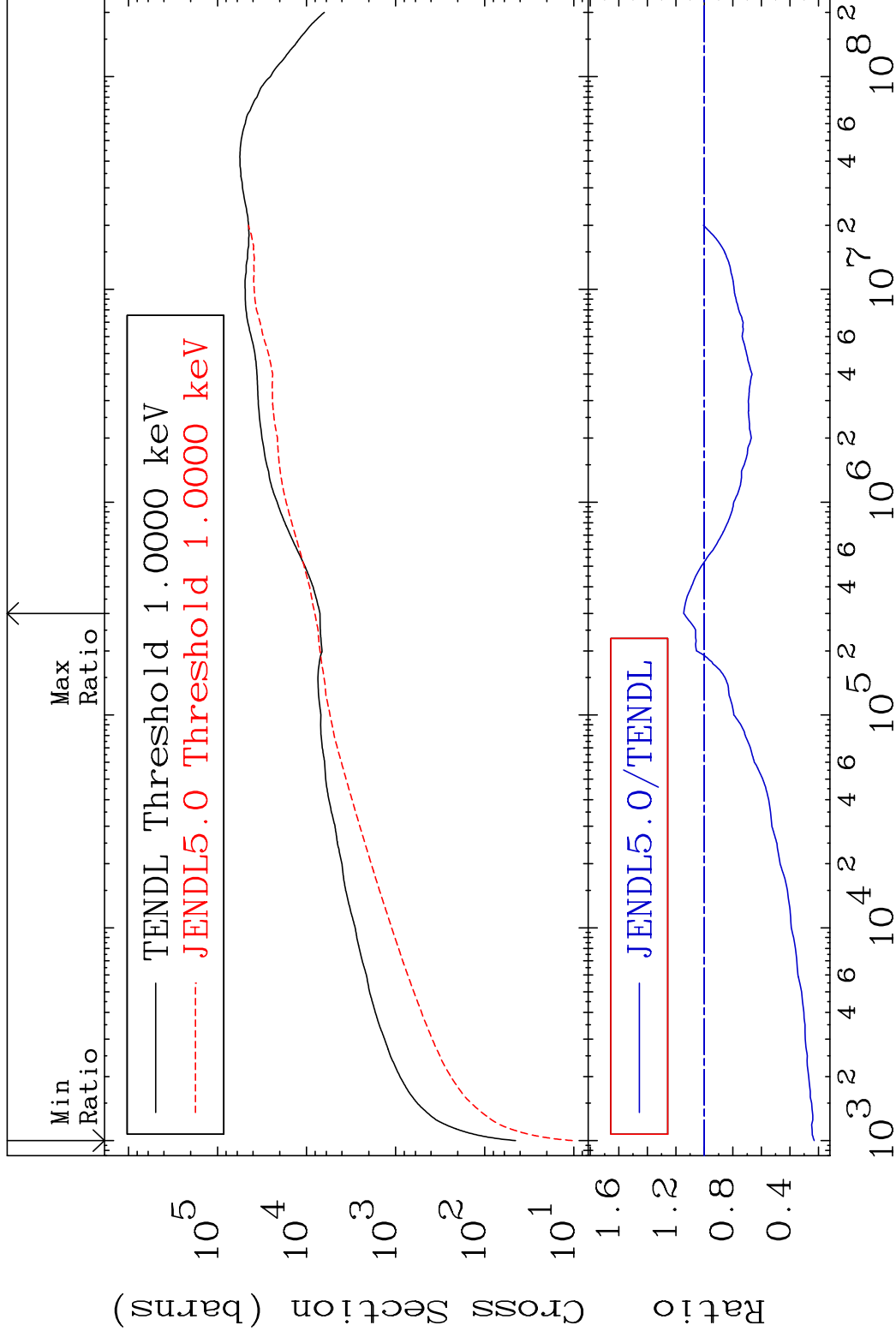
62 Incident Energy (eV) 63-Eu-154

MAT 6334

Dpa elastic (mt2)

63-Eu-154

Cross Section -76.99 To 14.51 %

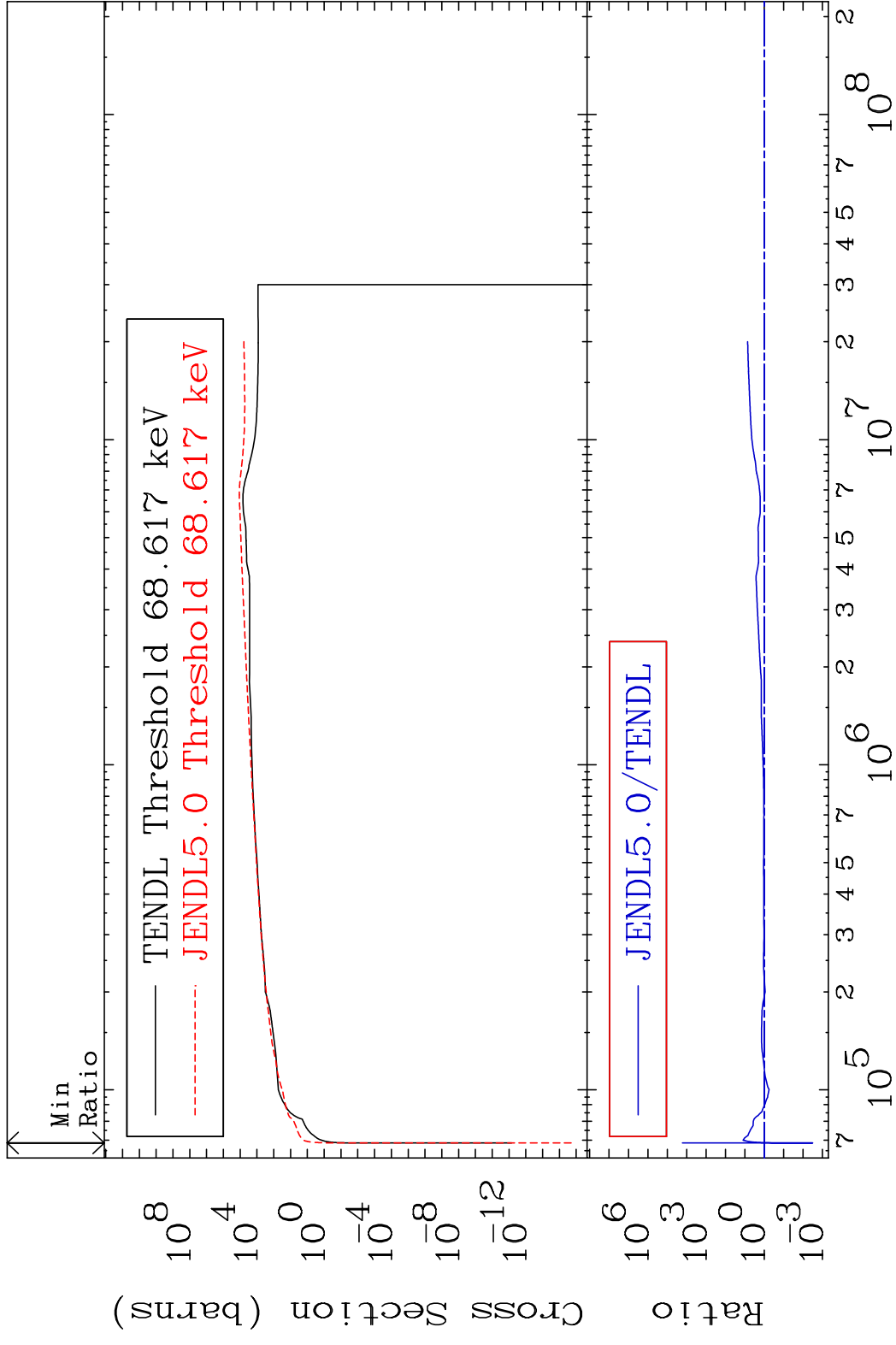


63

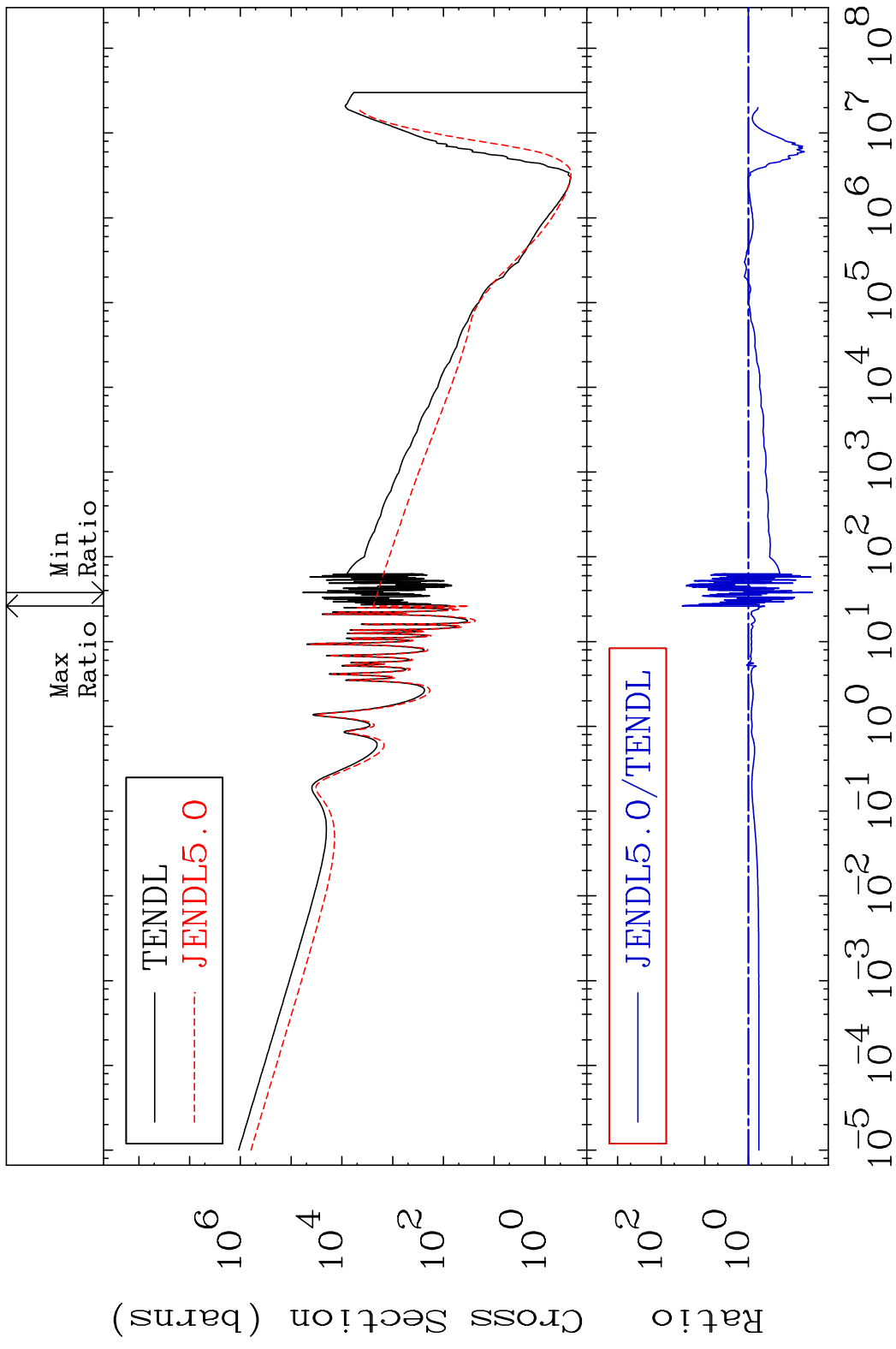
Incident Energy (eV)

63-Eu-154

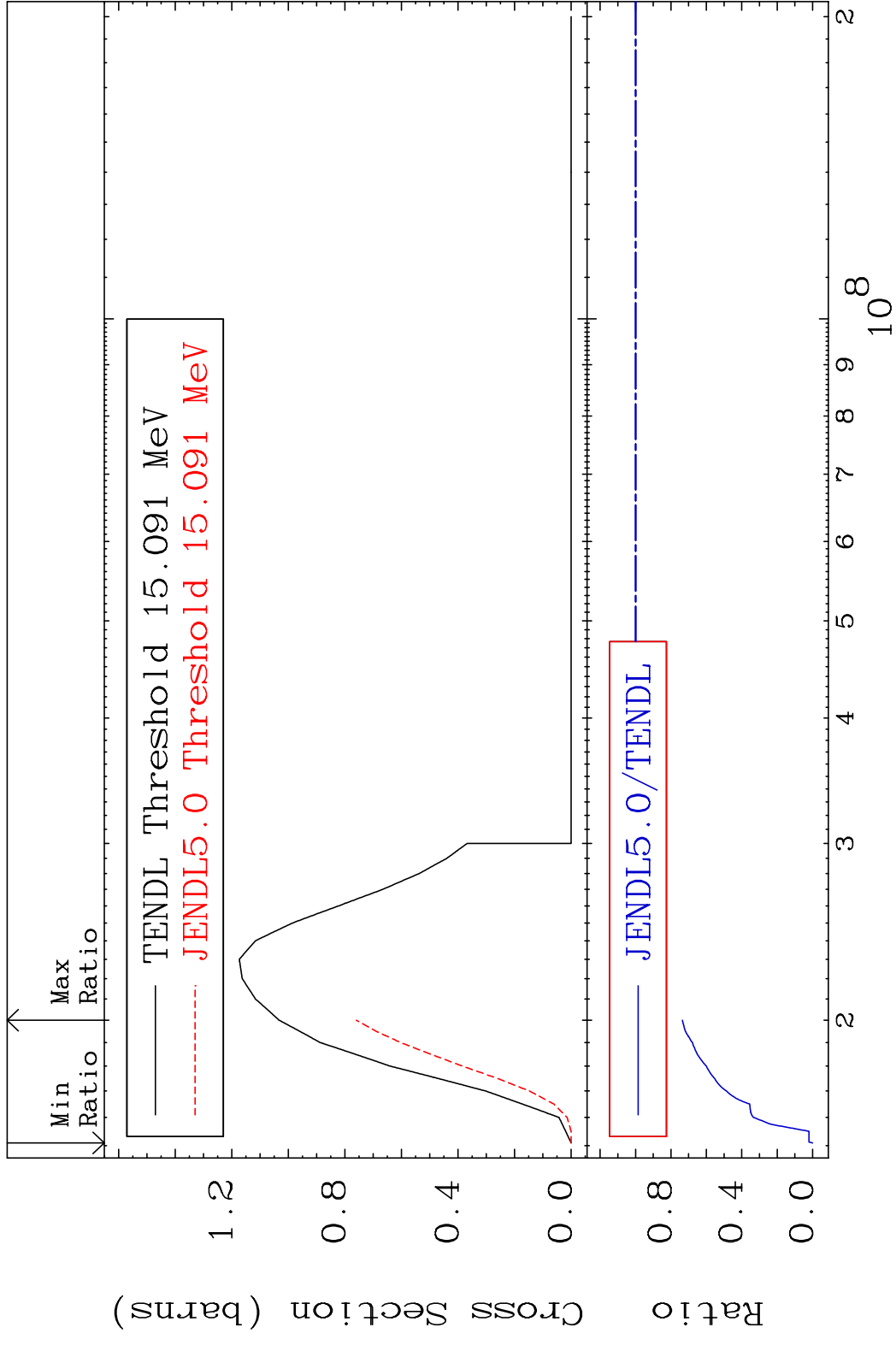
MAT 6334 Dpa inelastic (mt51-91) 63-Eu-154
 Cross Section -99.68 To 9999. %



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



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 %

