

Program Complot
(Version 2021-1)

by

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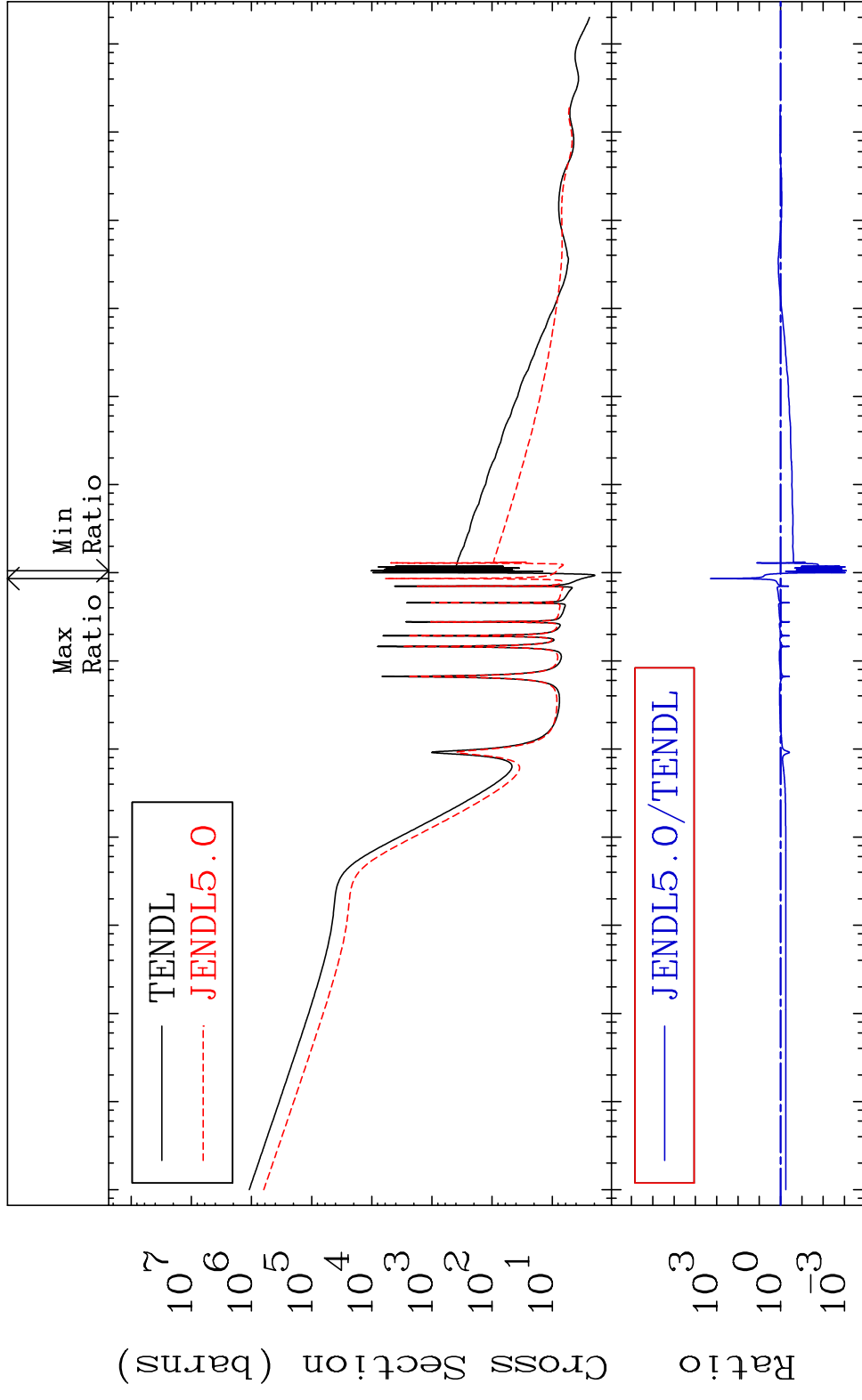
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6428

Total Cross Section -99.92 To 9999. %

64-Gd-153



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

Incident Energy (eV) 64-Gd-153

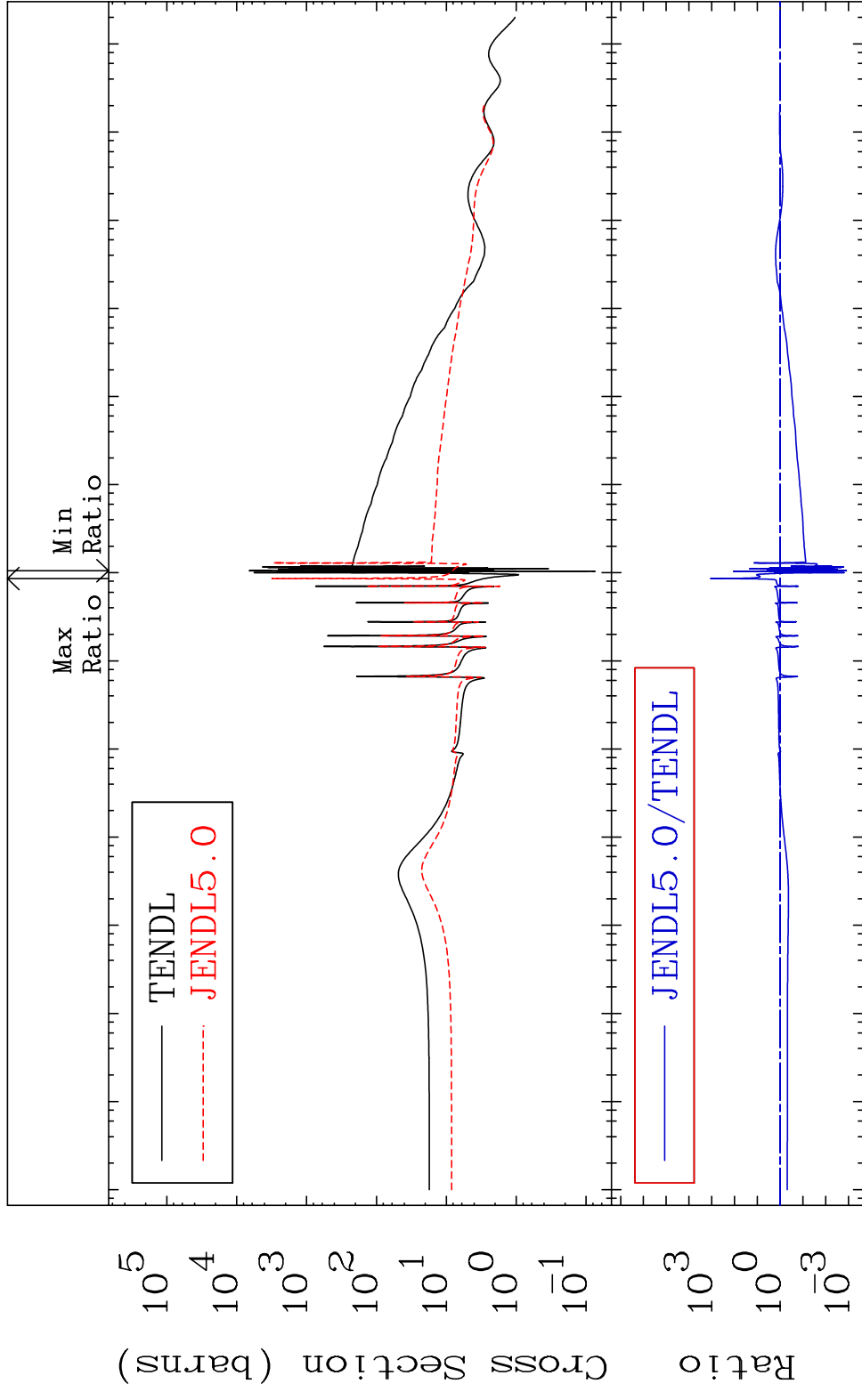
MAT 6428

Elastic

64-Gd-153

Cross Section

-99.88 To 9999. %



Cross Section (barns)
 10^5
 10^4
 10^3
 10^2
 10^1
 10^0
 10^{-1}

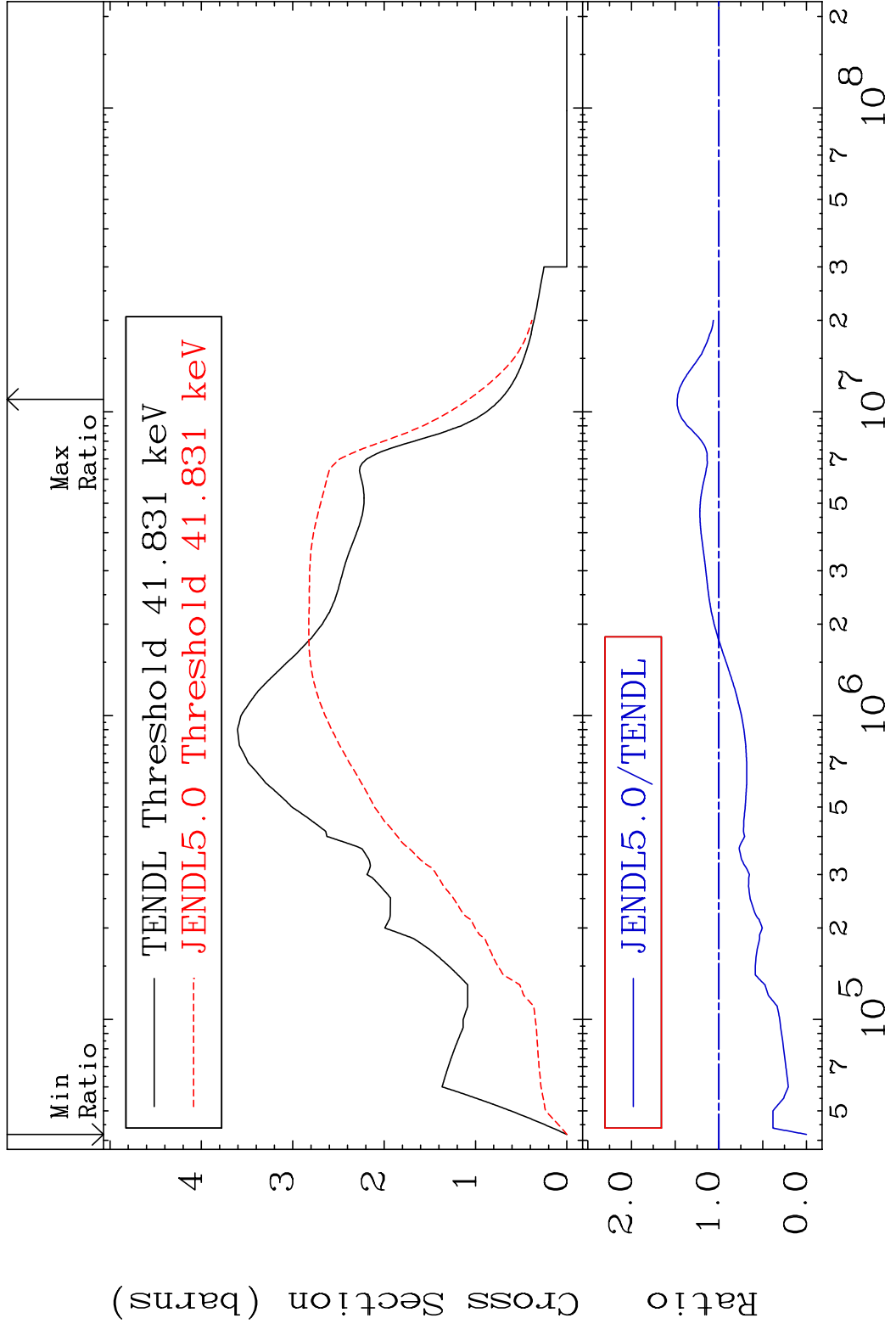
Ratio
 10^3
 10^0
 10^{-3}

Incident Energy (eV)
 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

2

64-Gd-153

MAT 6428 Inelastic Cross Section -100.0 To 47.73 % 64-Gd-153

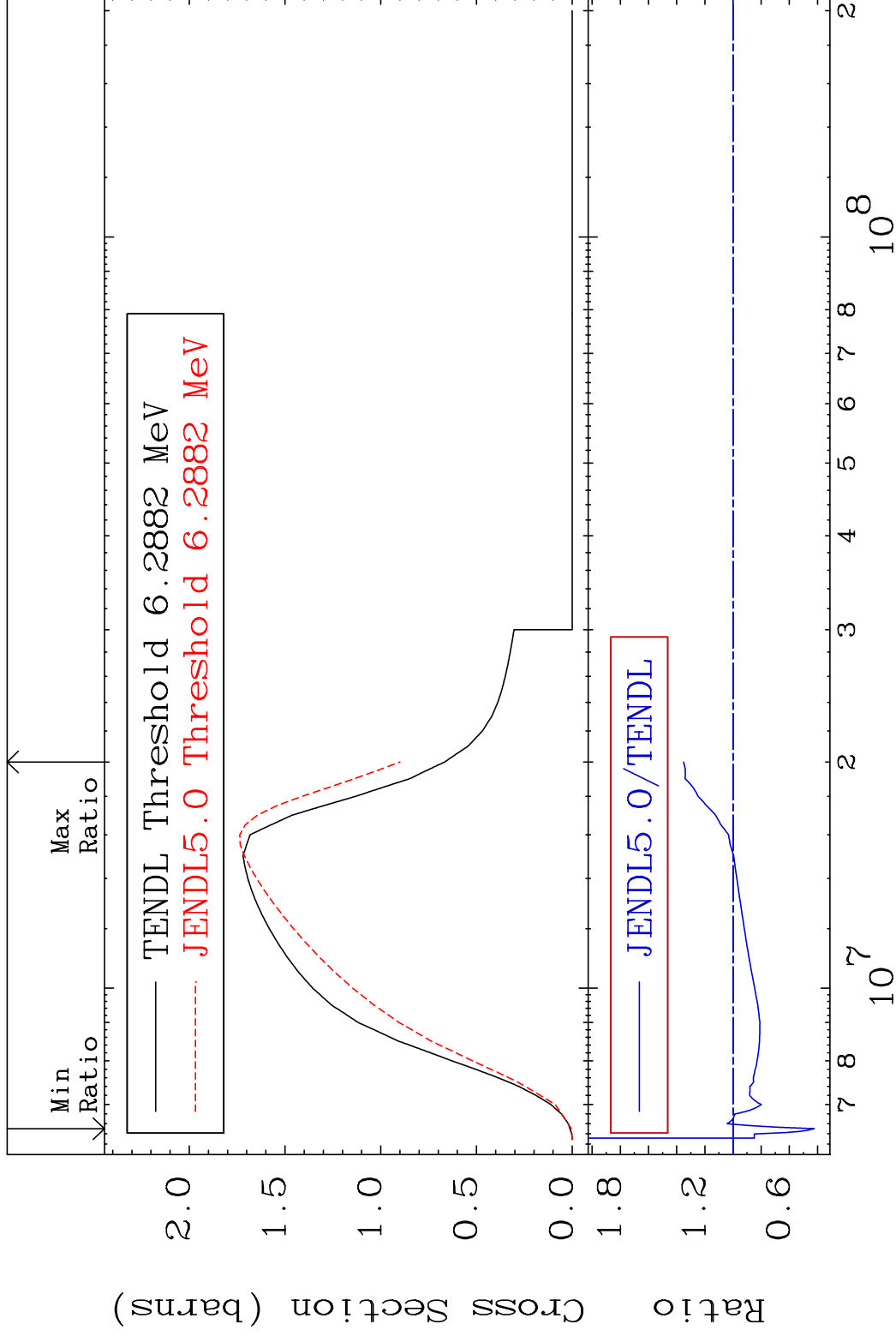


MAT 6428

(n,2n)

64-Gd-153

Cross Section -57.58 To 35.03 %



4

Incident Energy (eV)

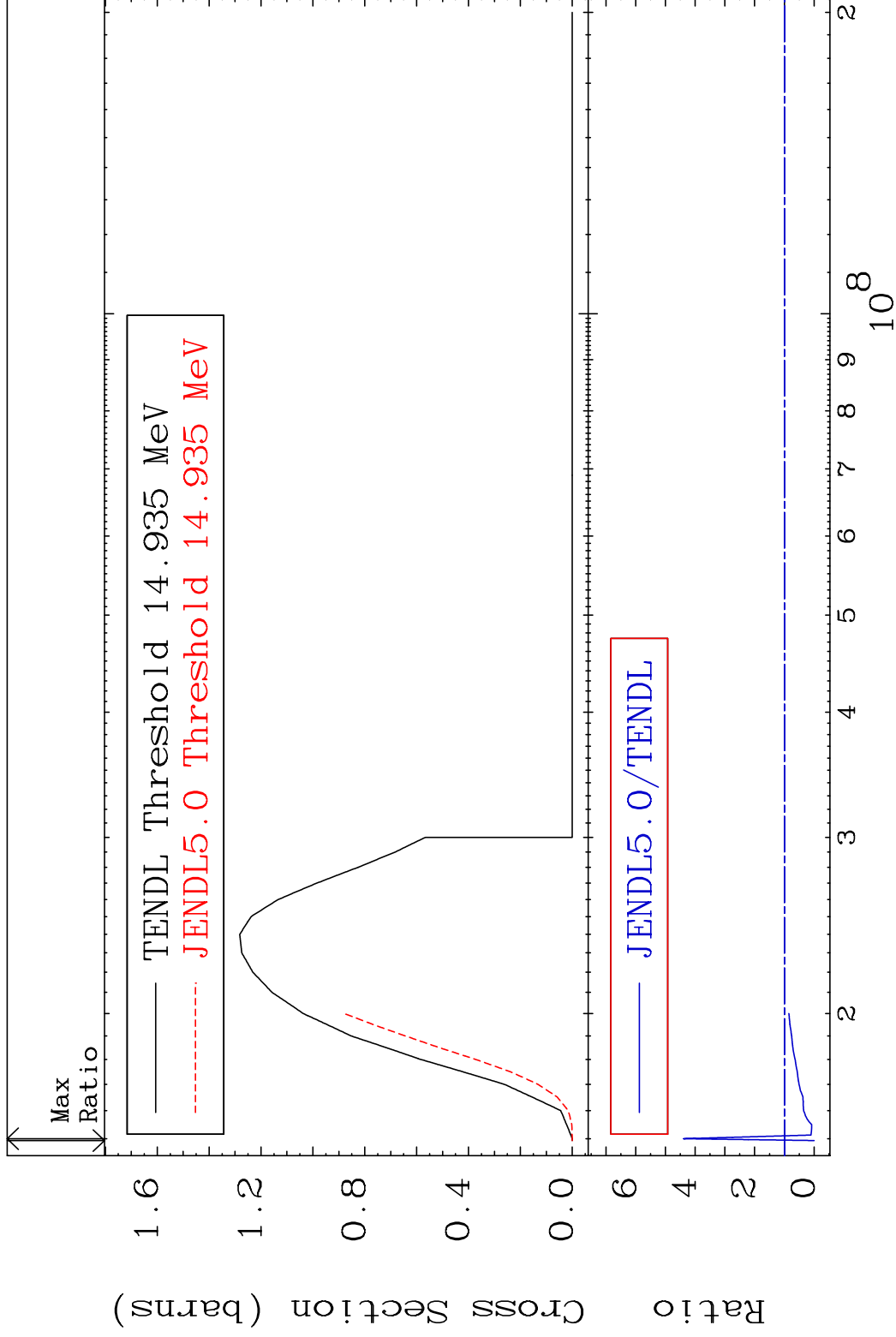
64-Gd-153

MAT 6428

(n,3n)

64-Gd-153

Cross Section -100.0 To 338.6 %



5

Incident Energy (eV)

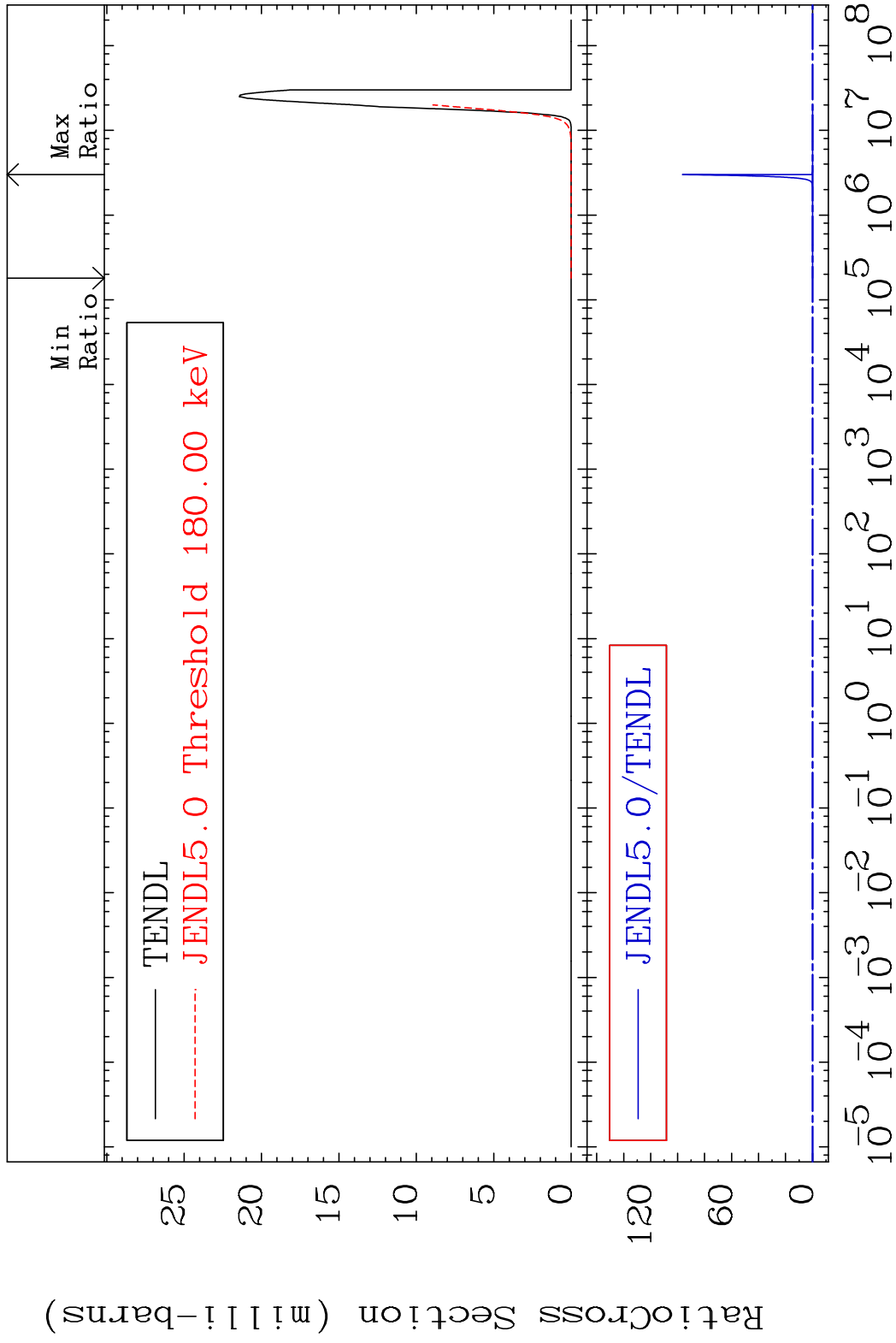
64-Gd-153

MAT 6428

(n, n') α

64-Gd-153

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

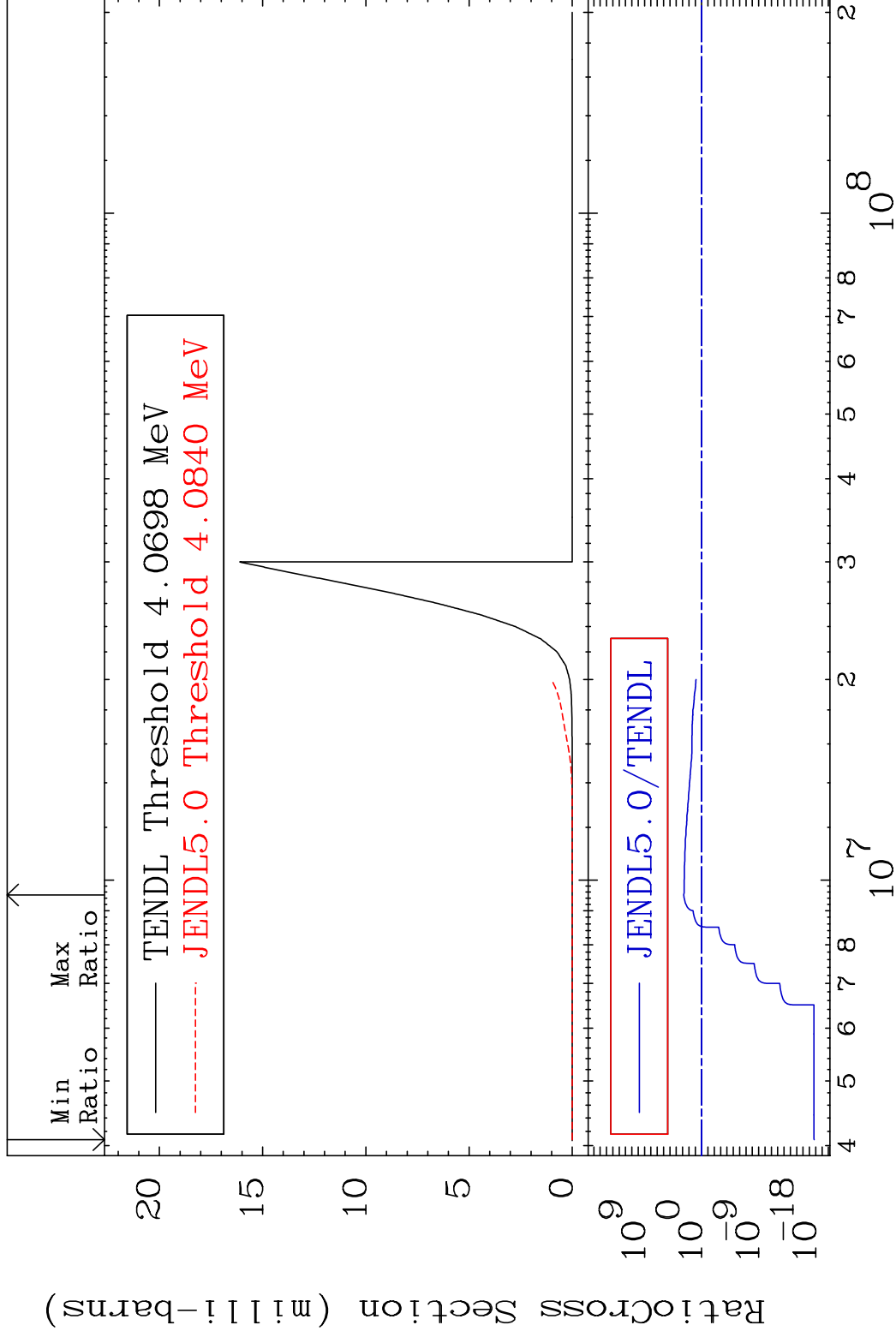
64-Gd-153

MAT 6428

(n,2n) α

64-Gd-153

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

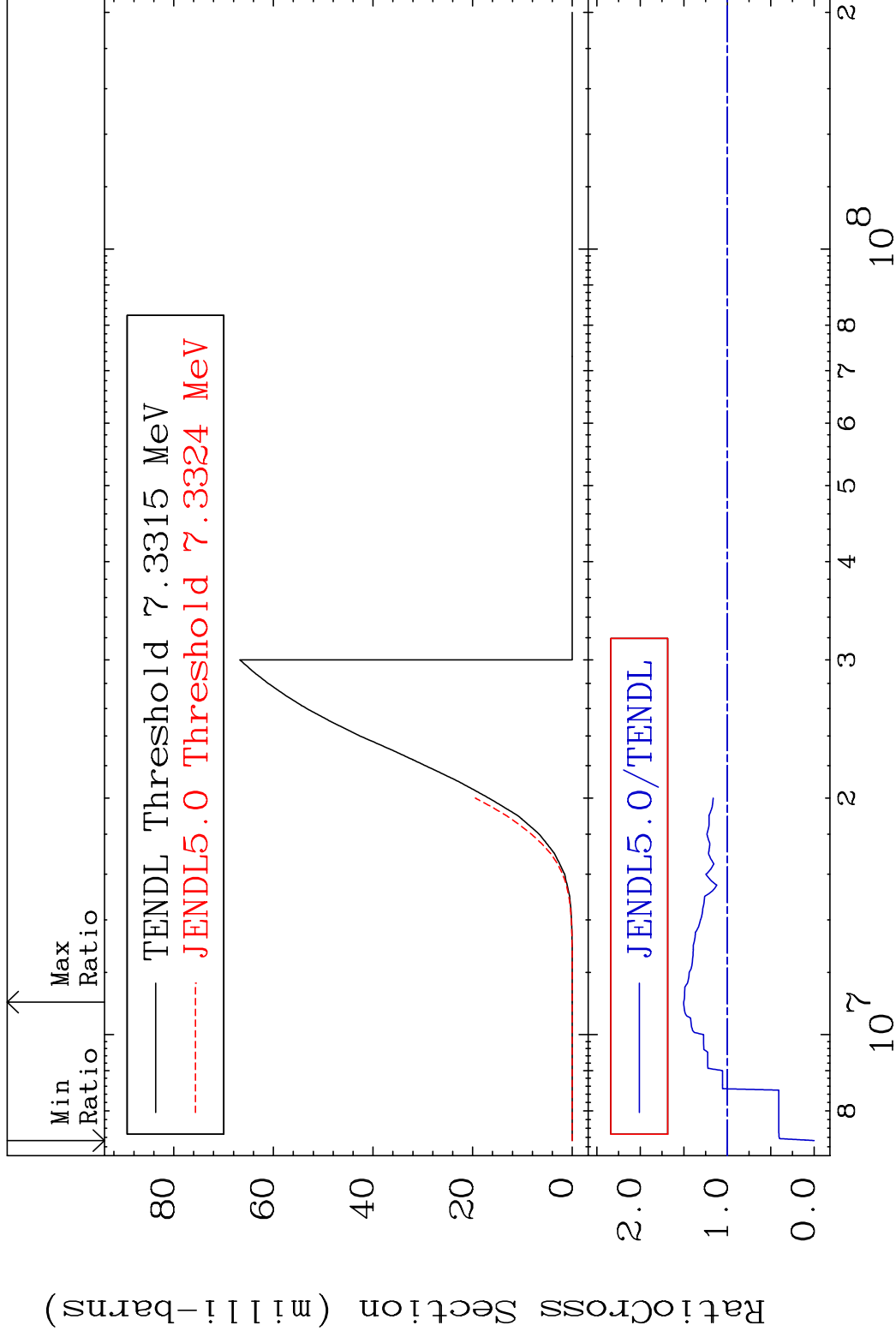
64-Gd-153

MAT 6428

(n, n') p

64-Gd-153

Cross Section -100.0 To 50.17 %



8

Incident Energy (eV)

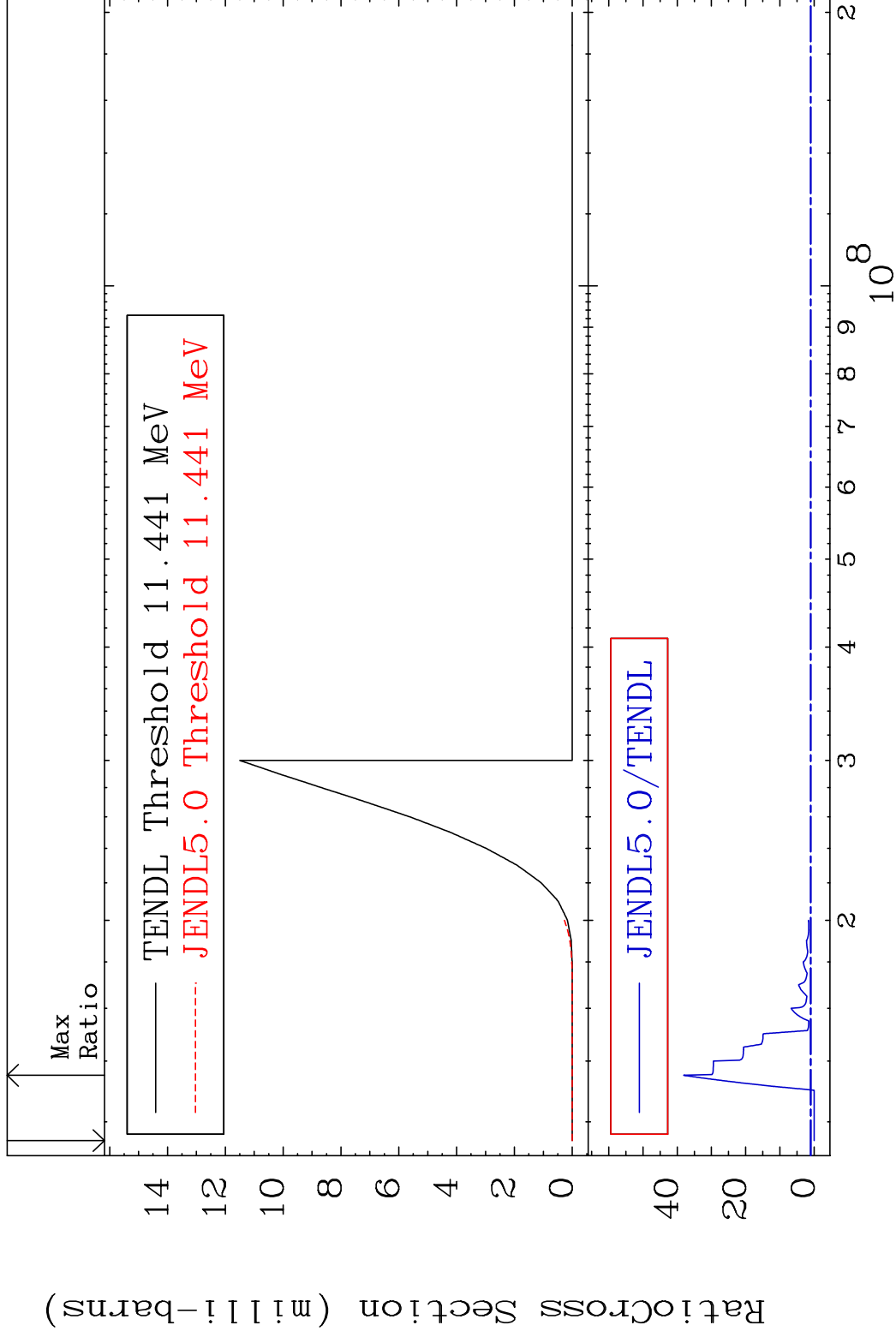
64-Gd-153

MAT 6428

(n, n') d

64-Gd-153

Cross Section -100.0 To 3712. %

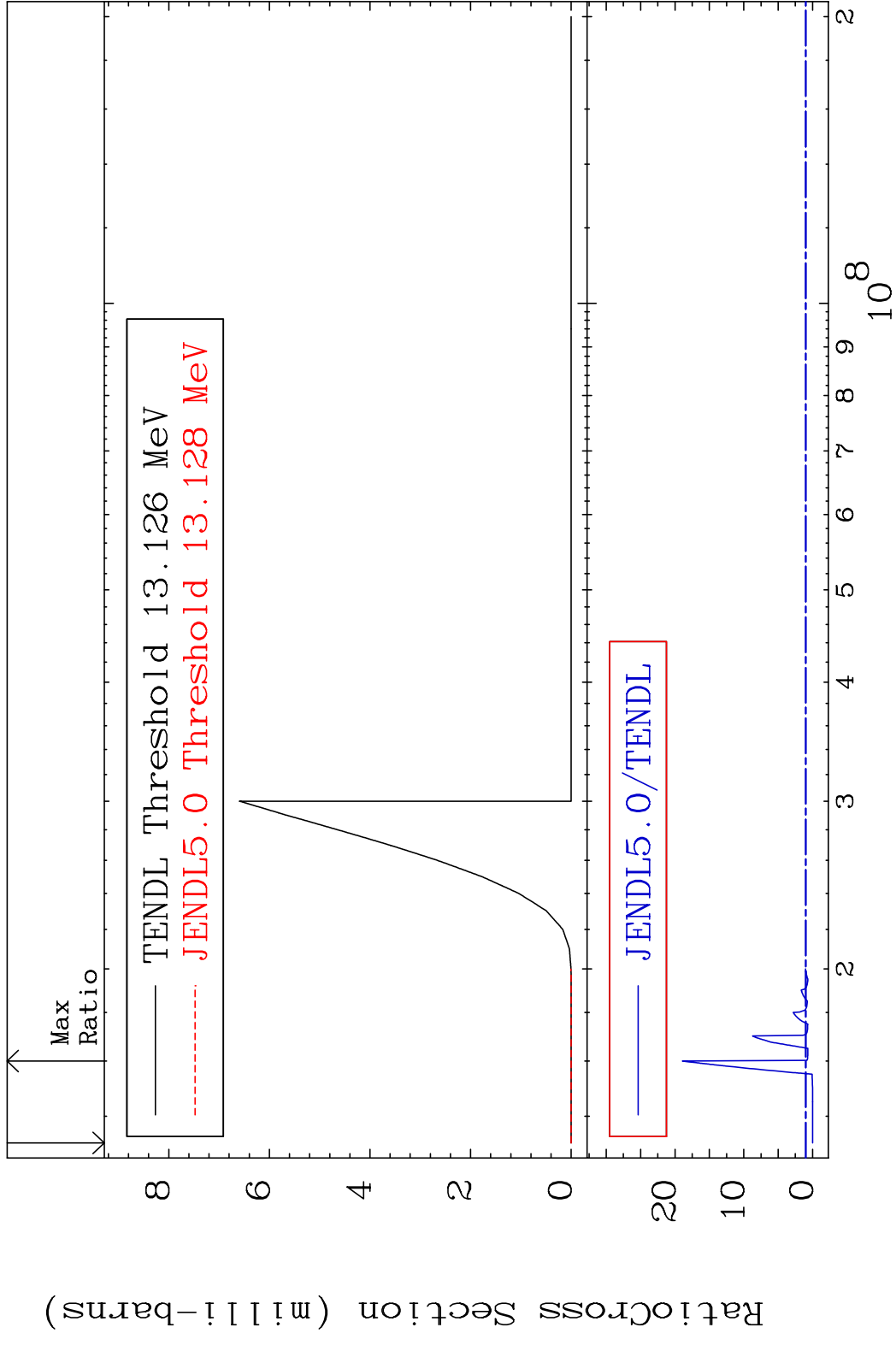


MAT 6428

(n, n') t

64-Gd-153

Cross Section -100.0 To 1793. %



10

Incident Energy (eV)

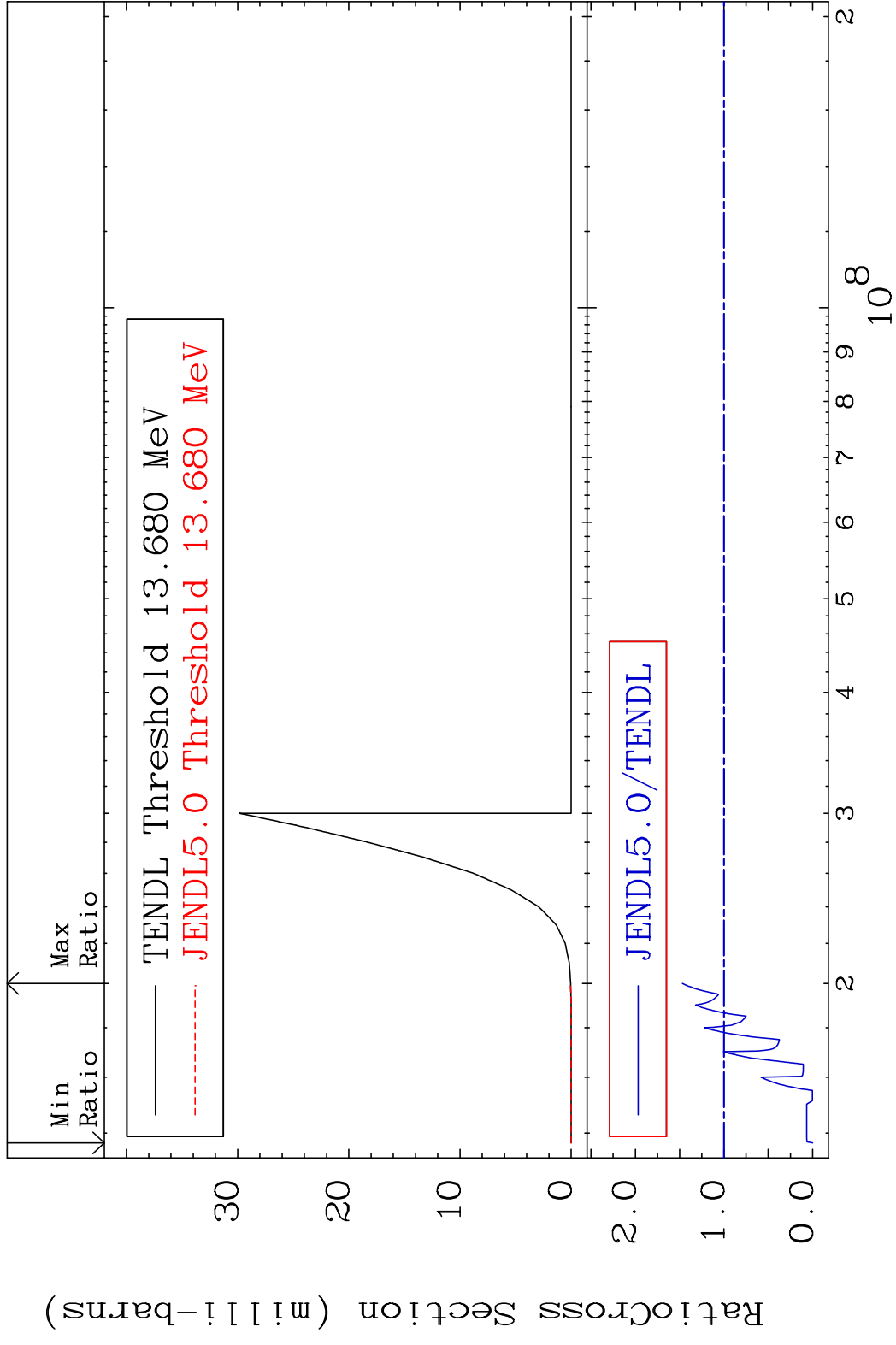
64-Gd-153

MAT 6428

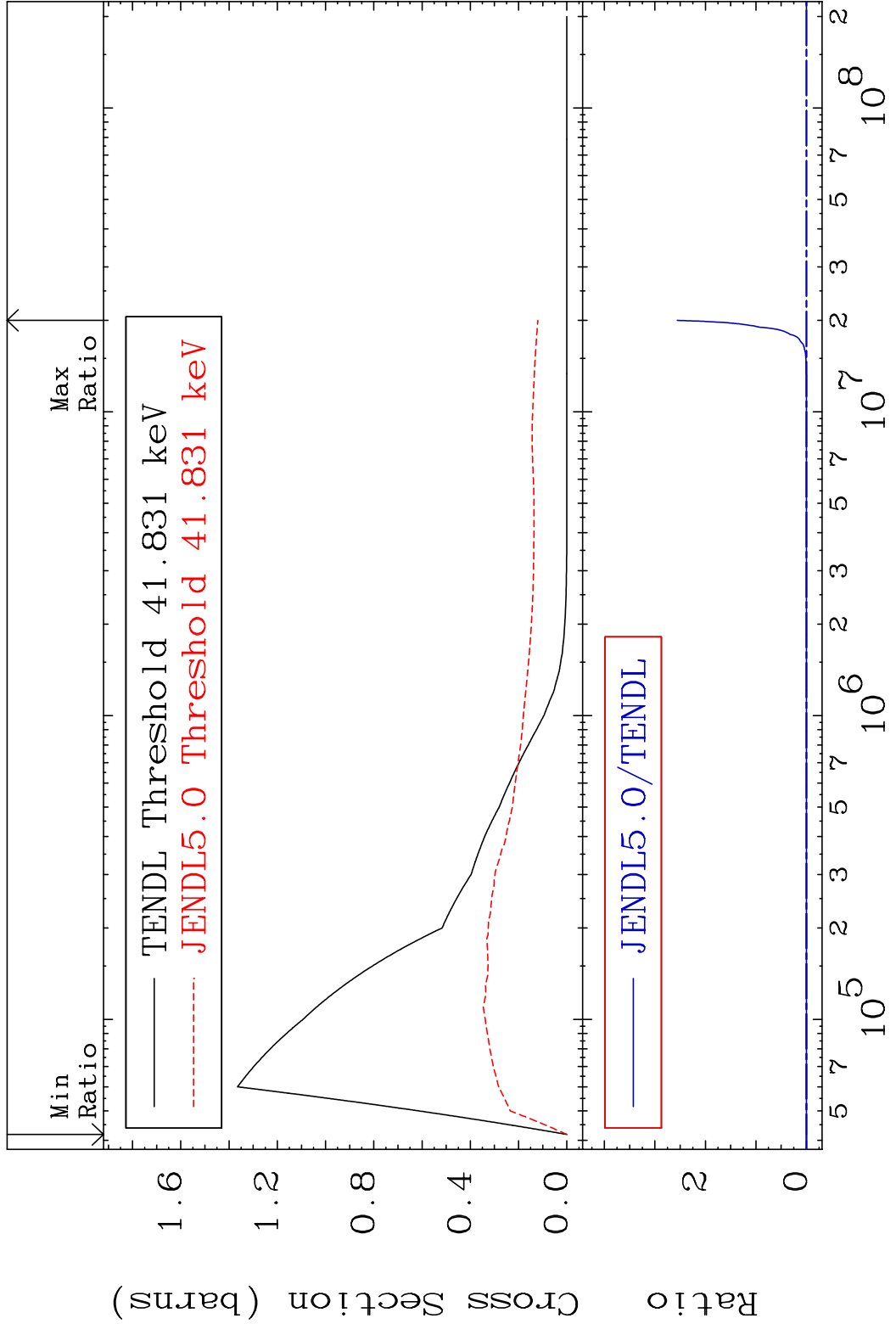
(n,2n) p

64-Gd-153

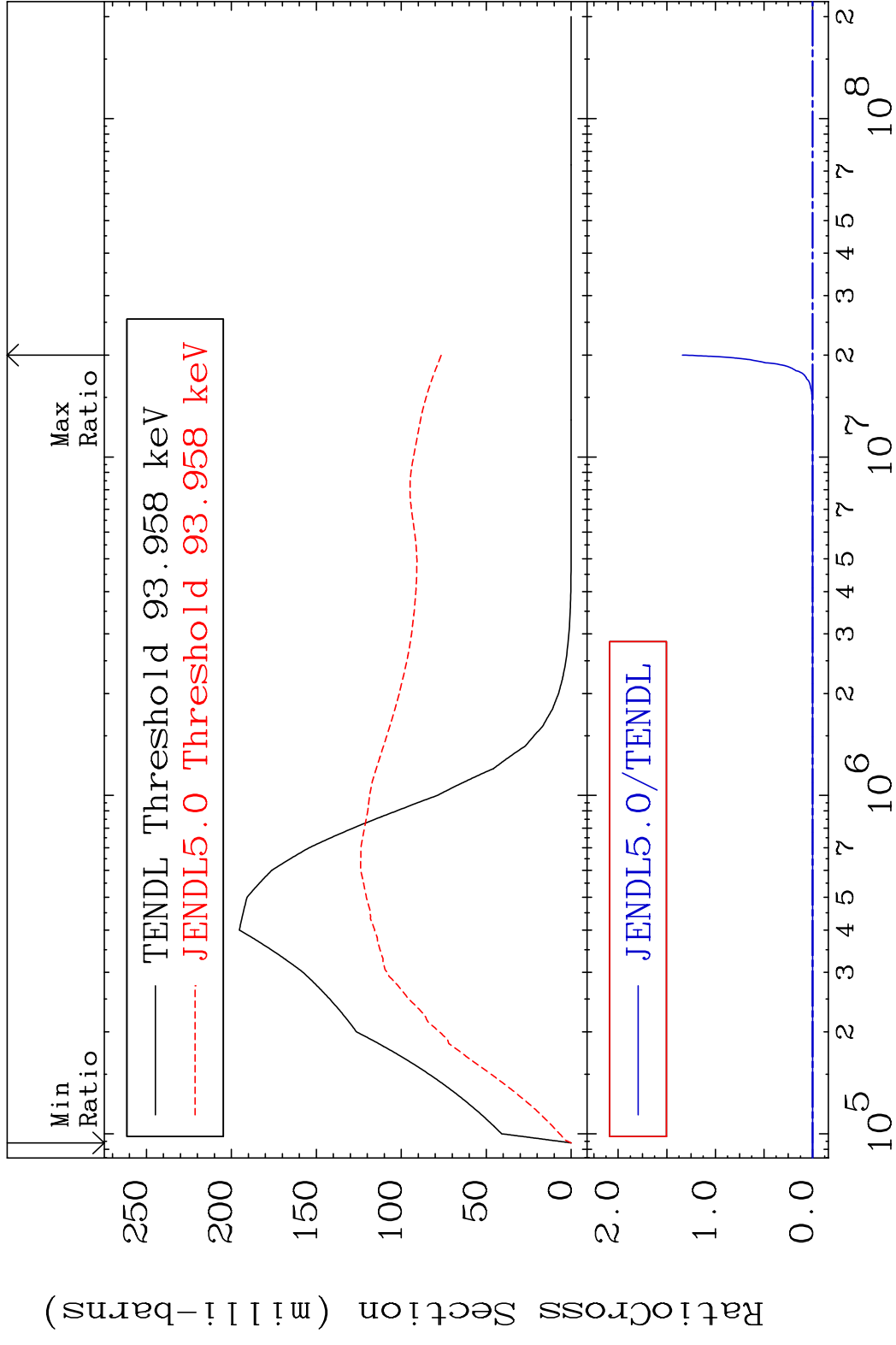
Cross Section -100.0 To 46.92 %



MAT 6428 MT= 51 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %

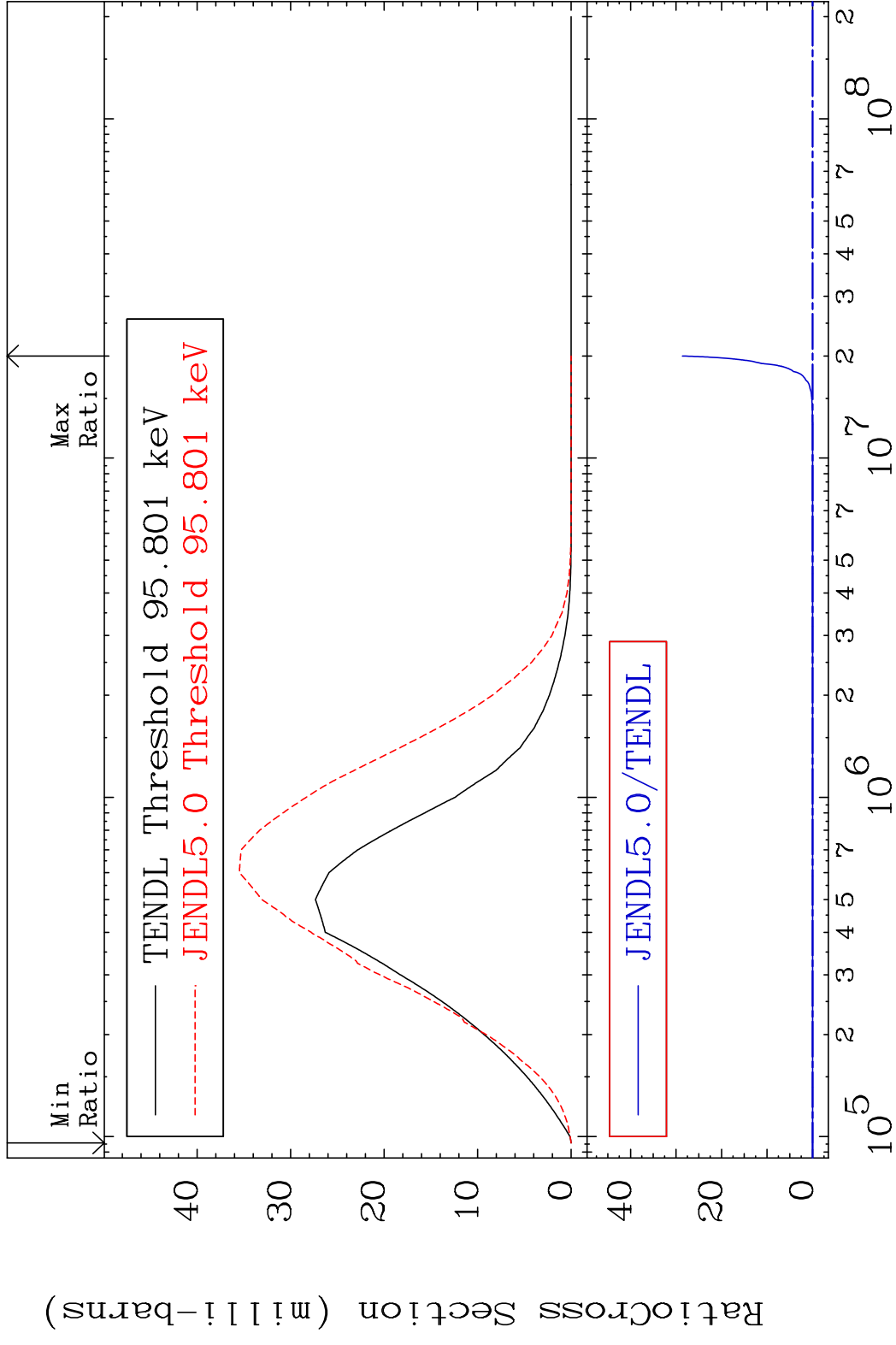


MAT 6428 MT= 52 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



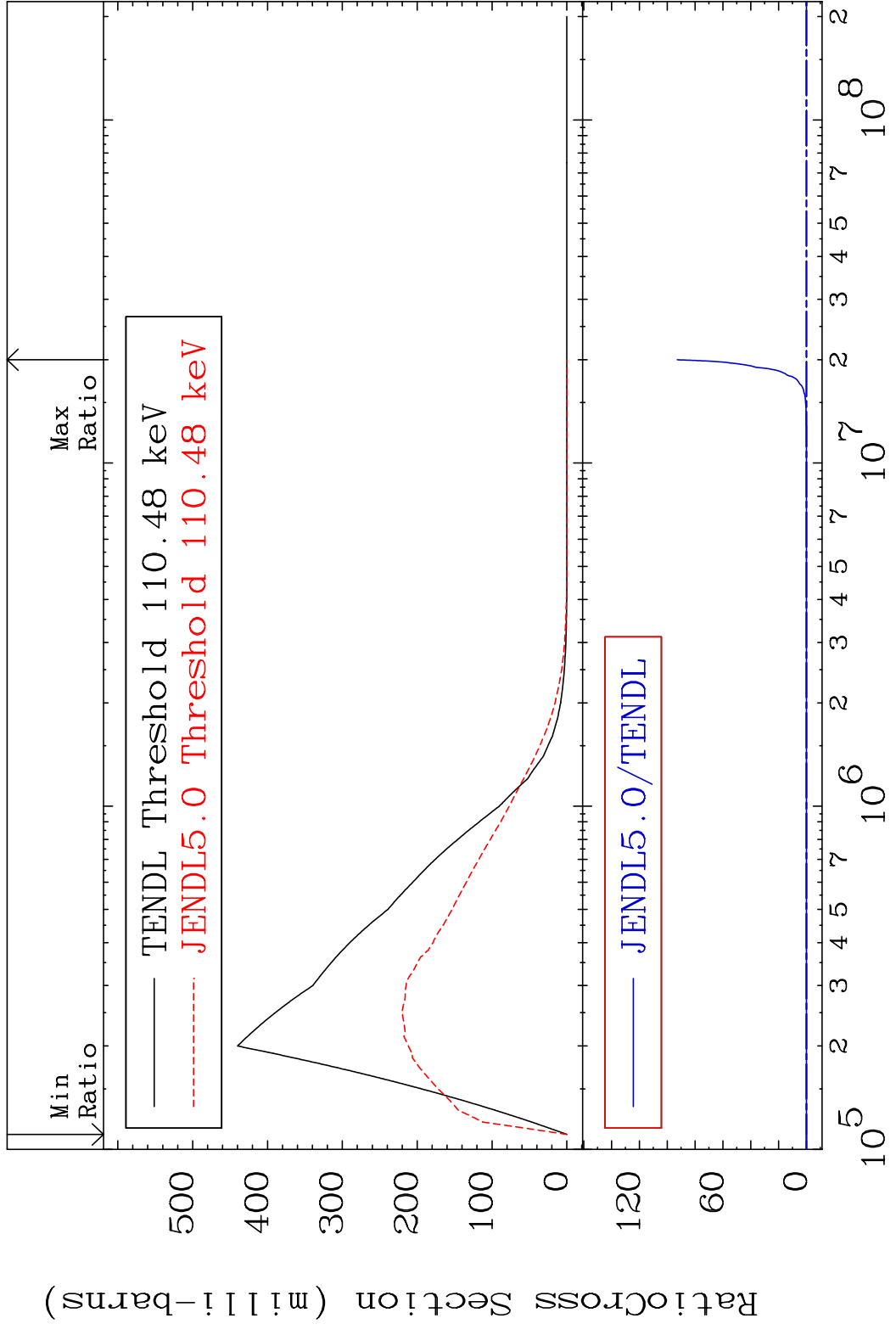
13 Incident Energy (eV) 64-Gd-153

MAT 6428 MT= 53 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %

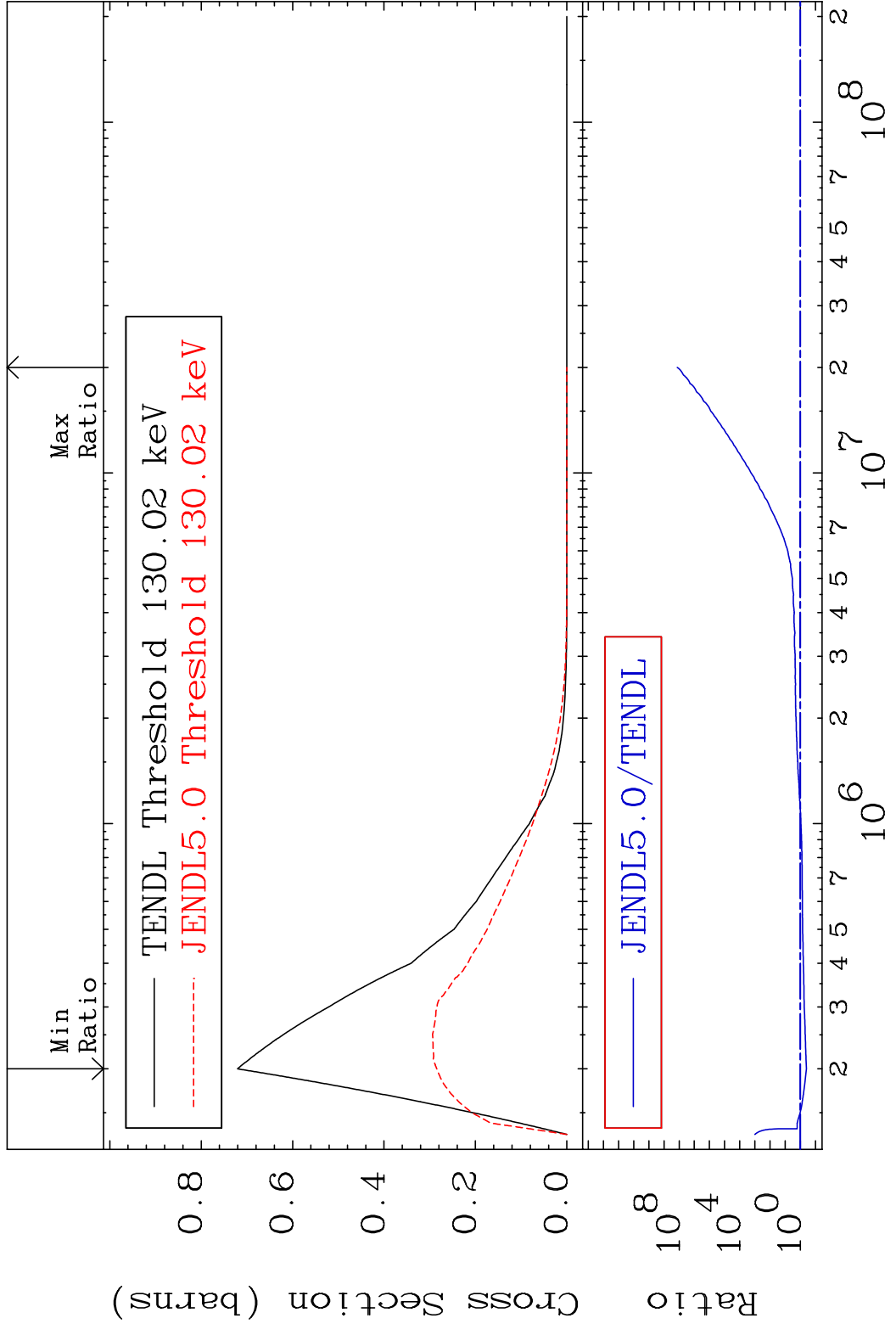


14 Incident Energy (eV) 64-Gd-153

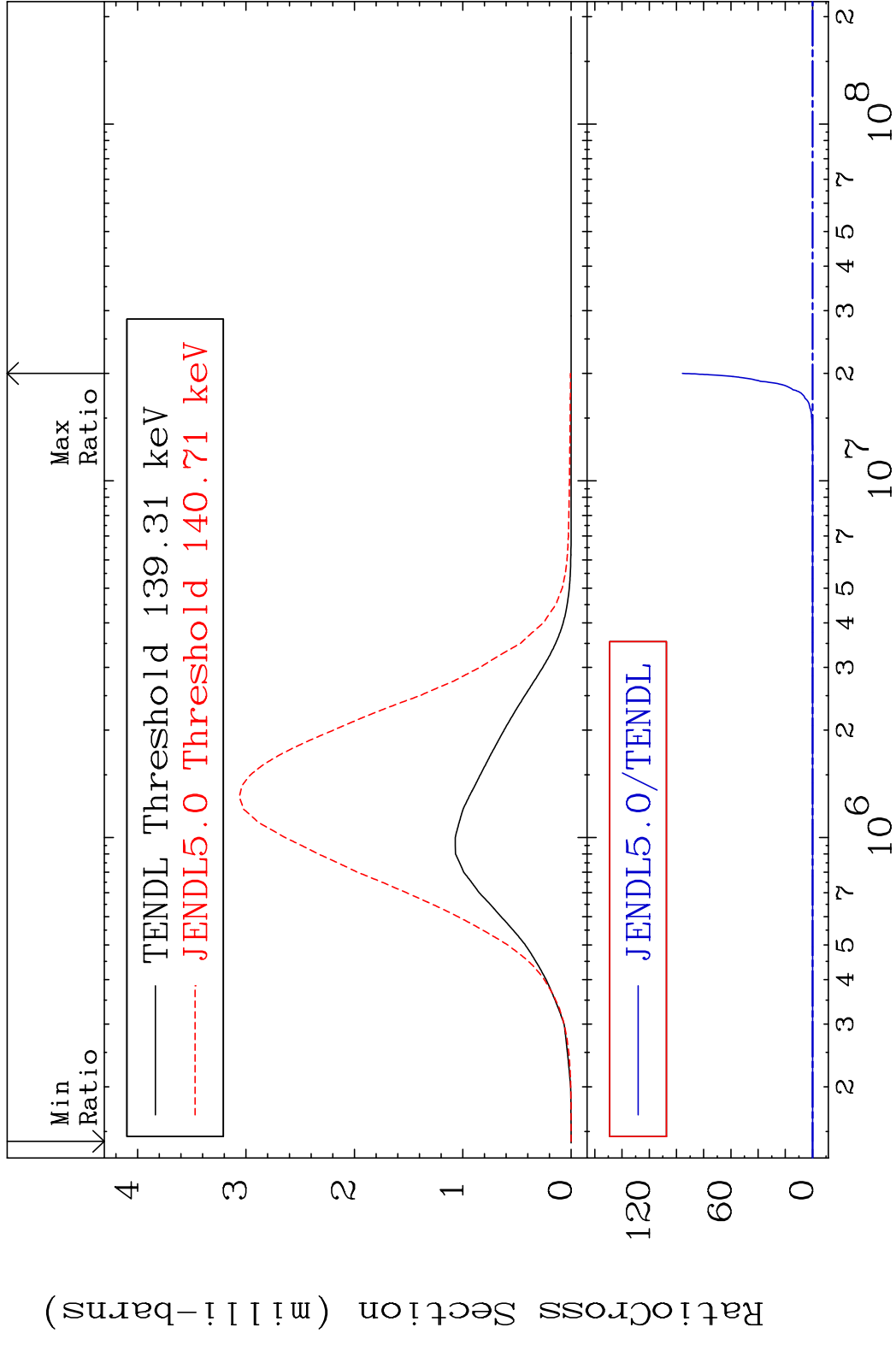
MAT 6428 MT= 54 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



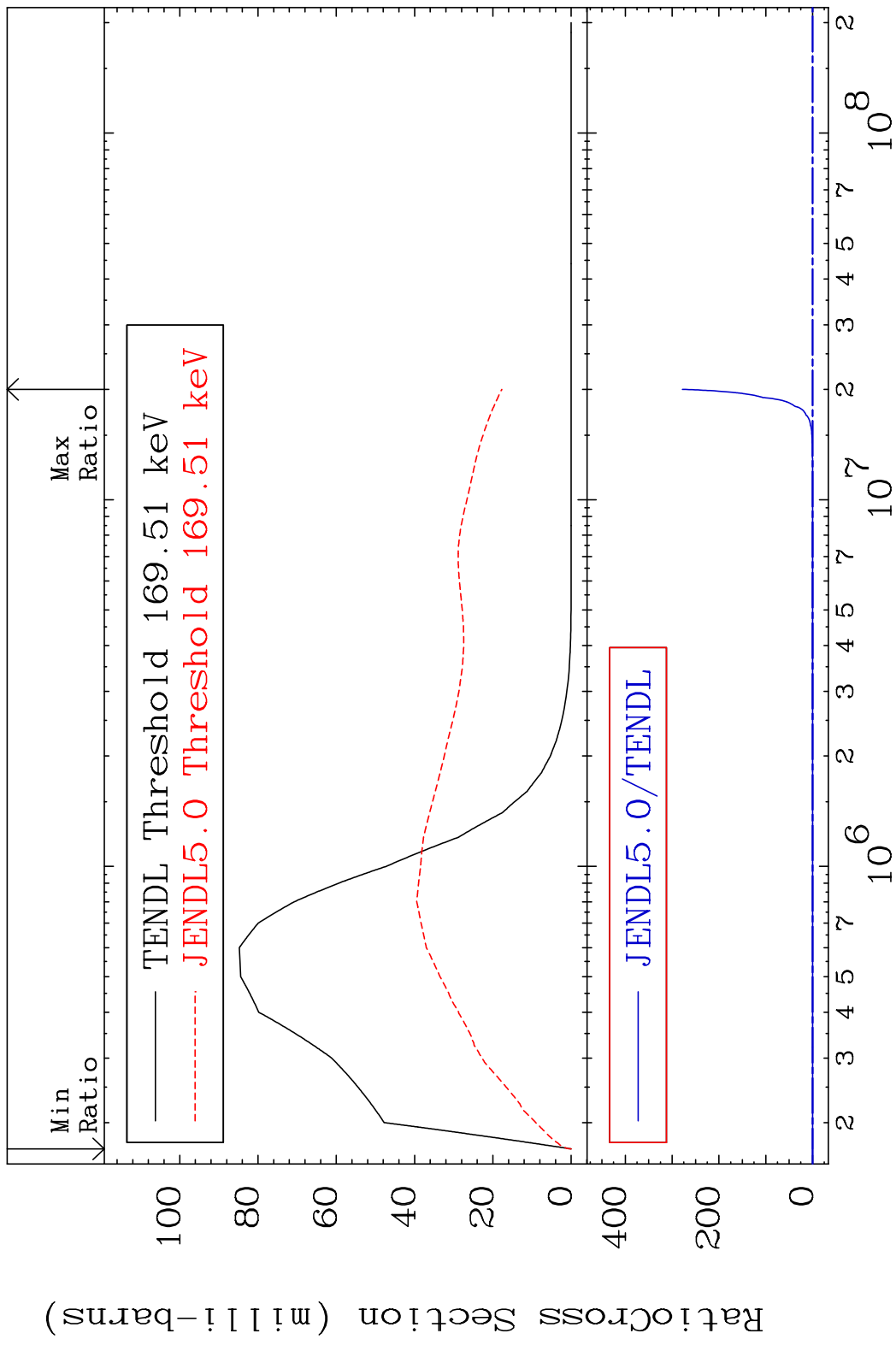
MAT 6428 MT= 55 (n,n') Level 64-Gd-153
 Cross Section -60.47 To 9999. %



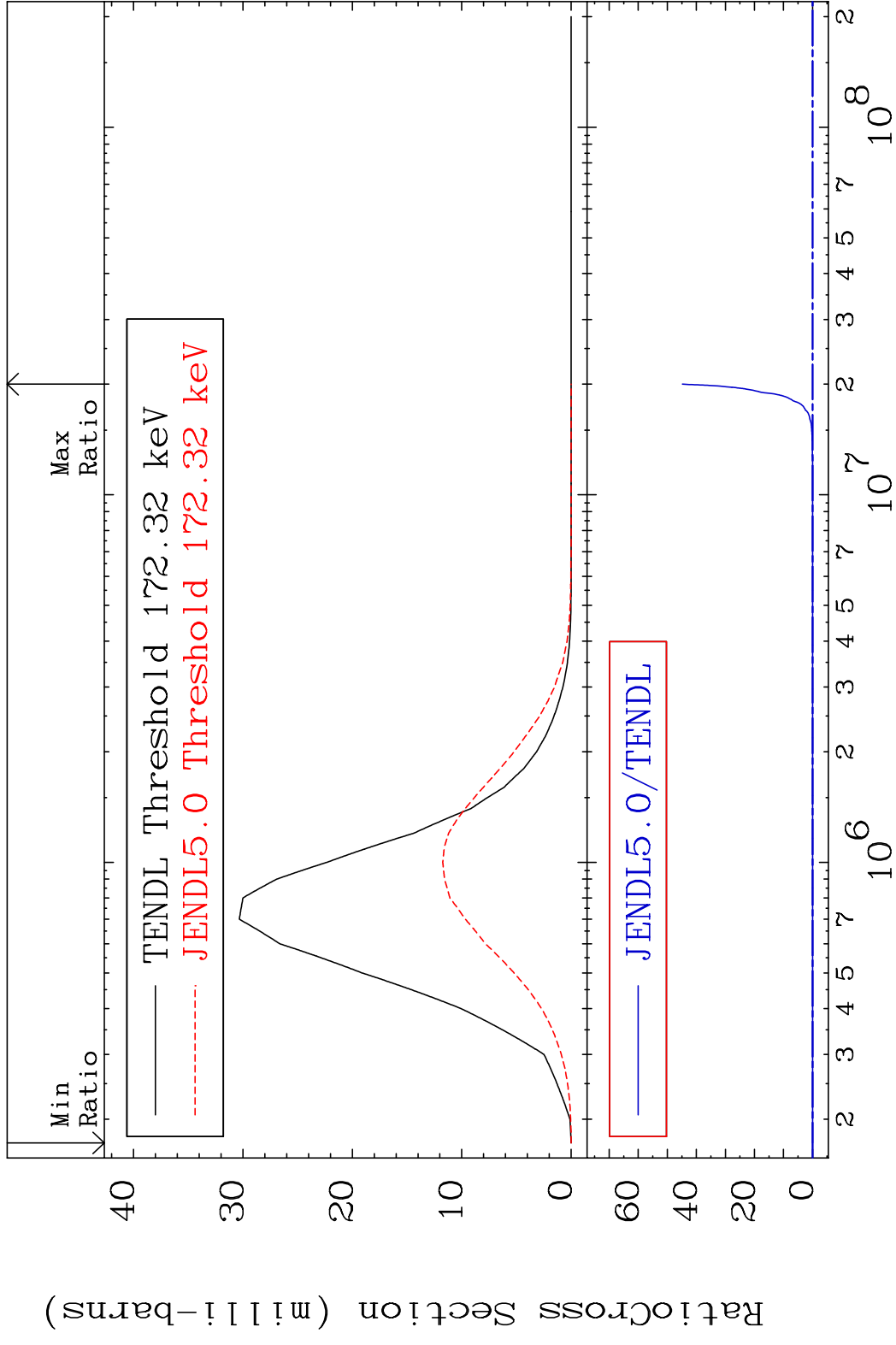
MAT 6428 MT= 56 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



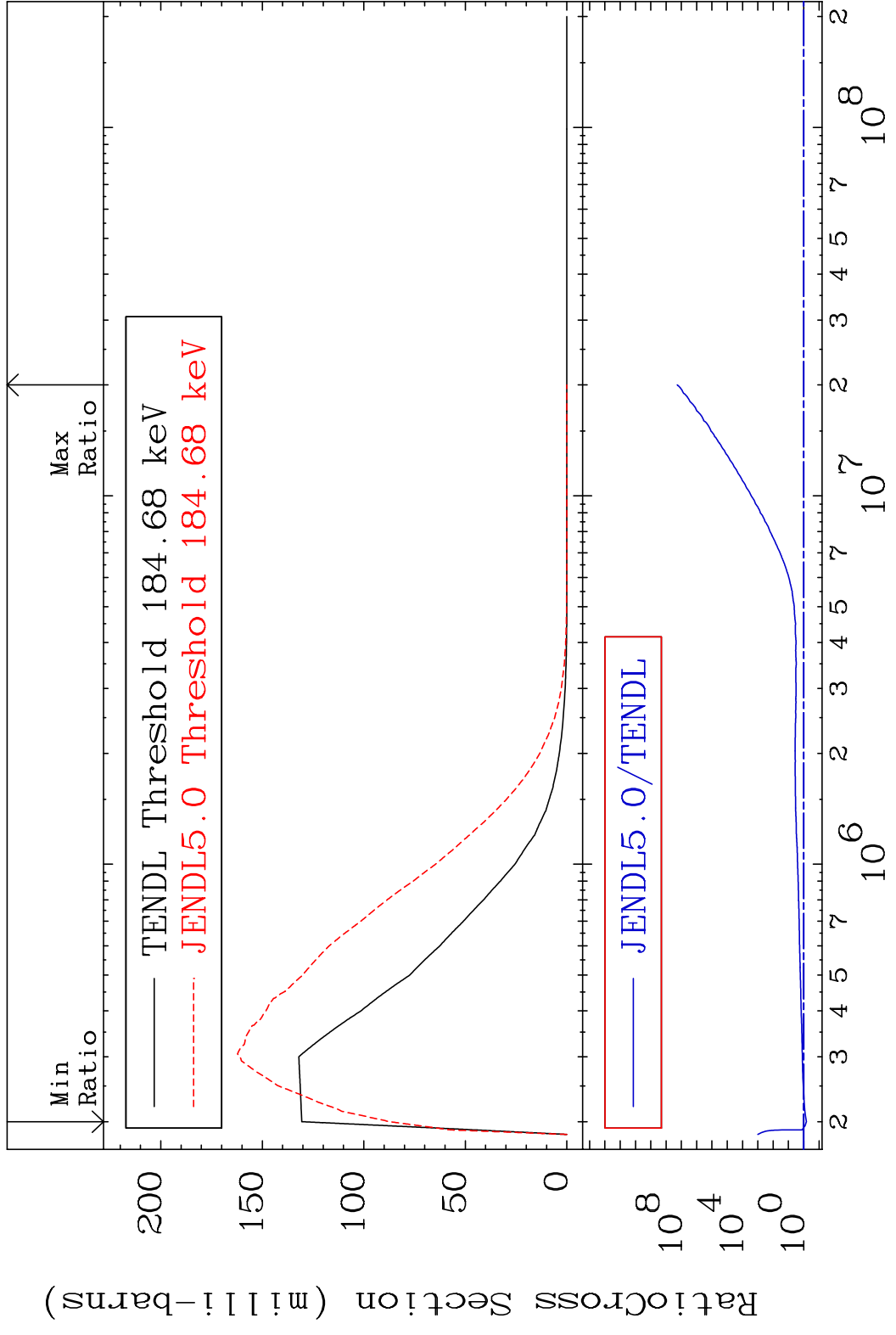
MAT 6428 MT= 57 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



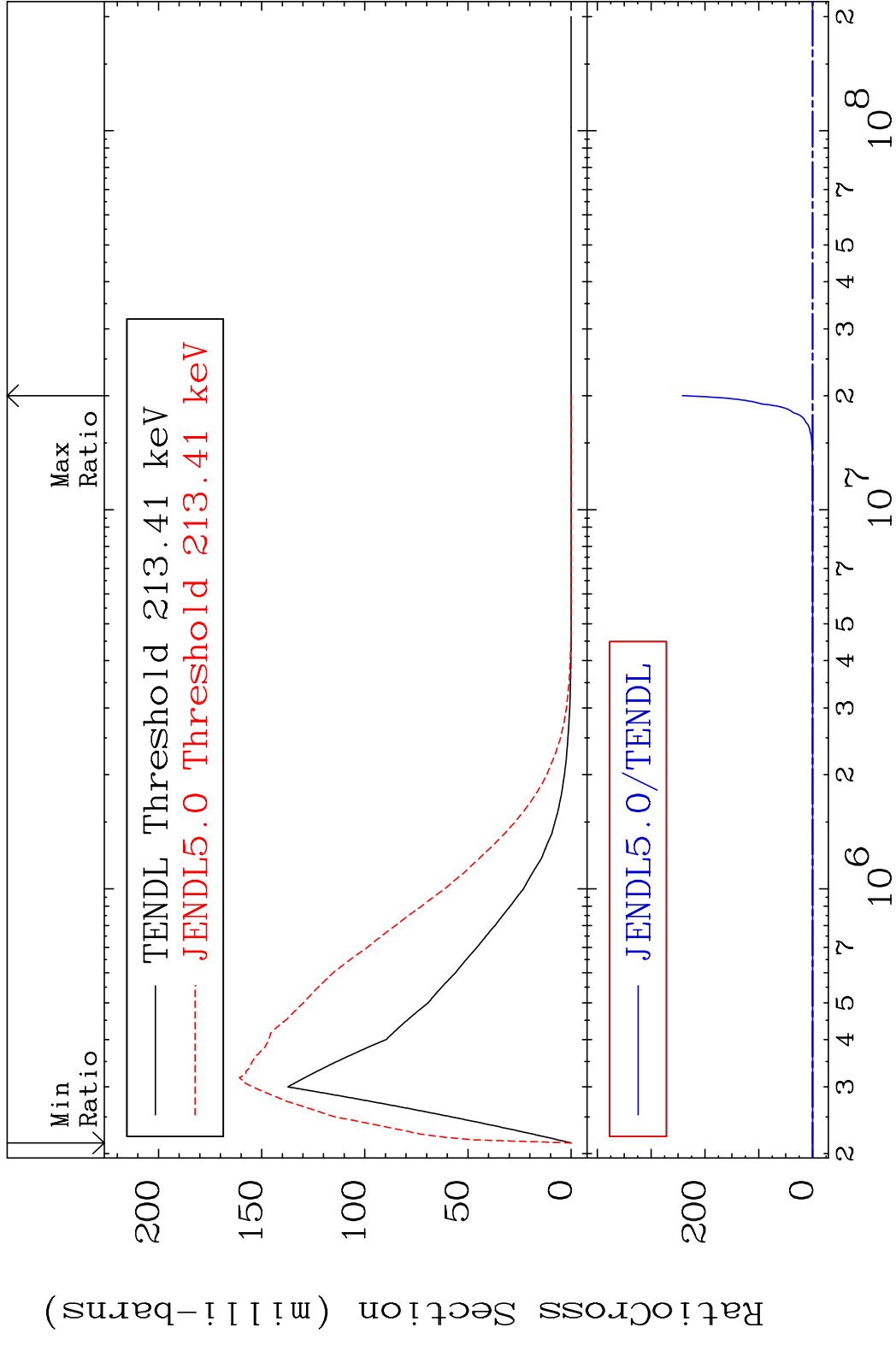
MAT 6428 MT= 58 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



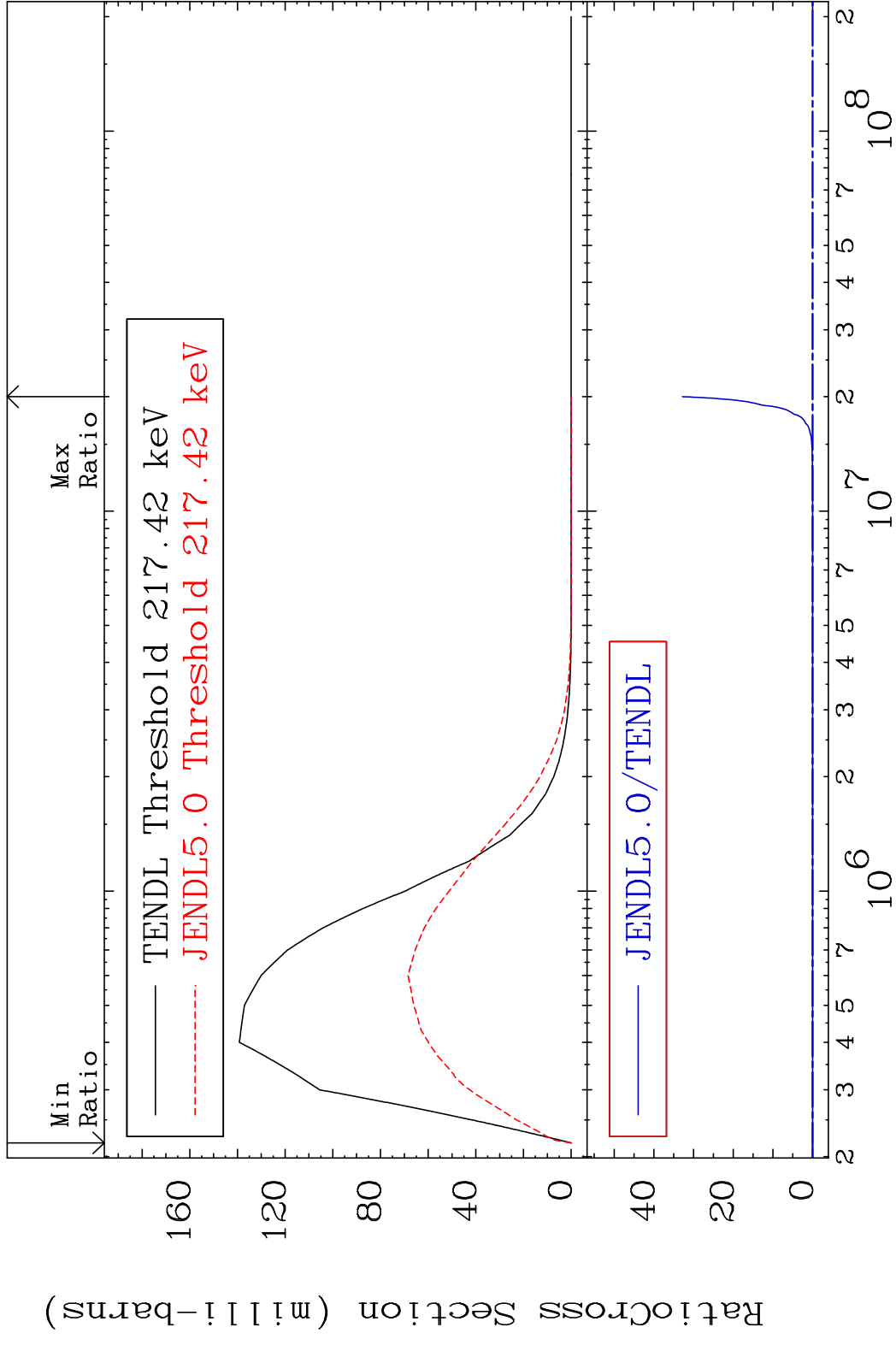
MAT 6428 MT= 59 (n,n') Level 64-Gd-153
 Cross Section -33.16 To 9999. %



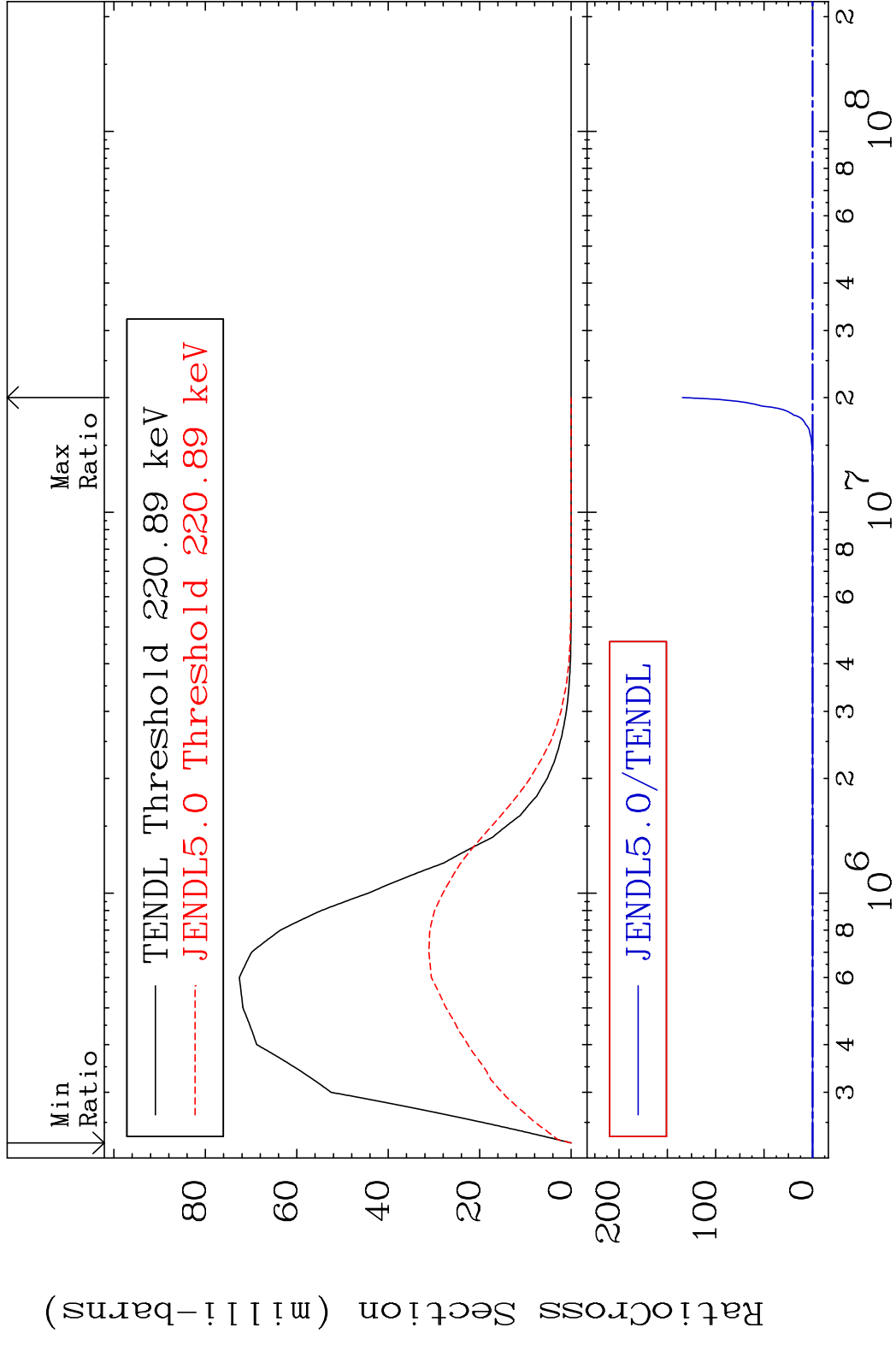
MAT 6428 MT= 60 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



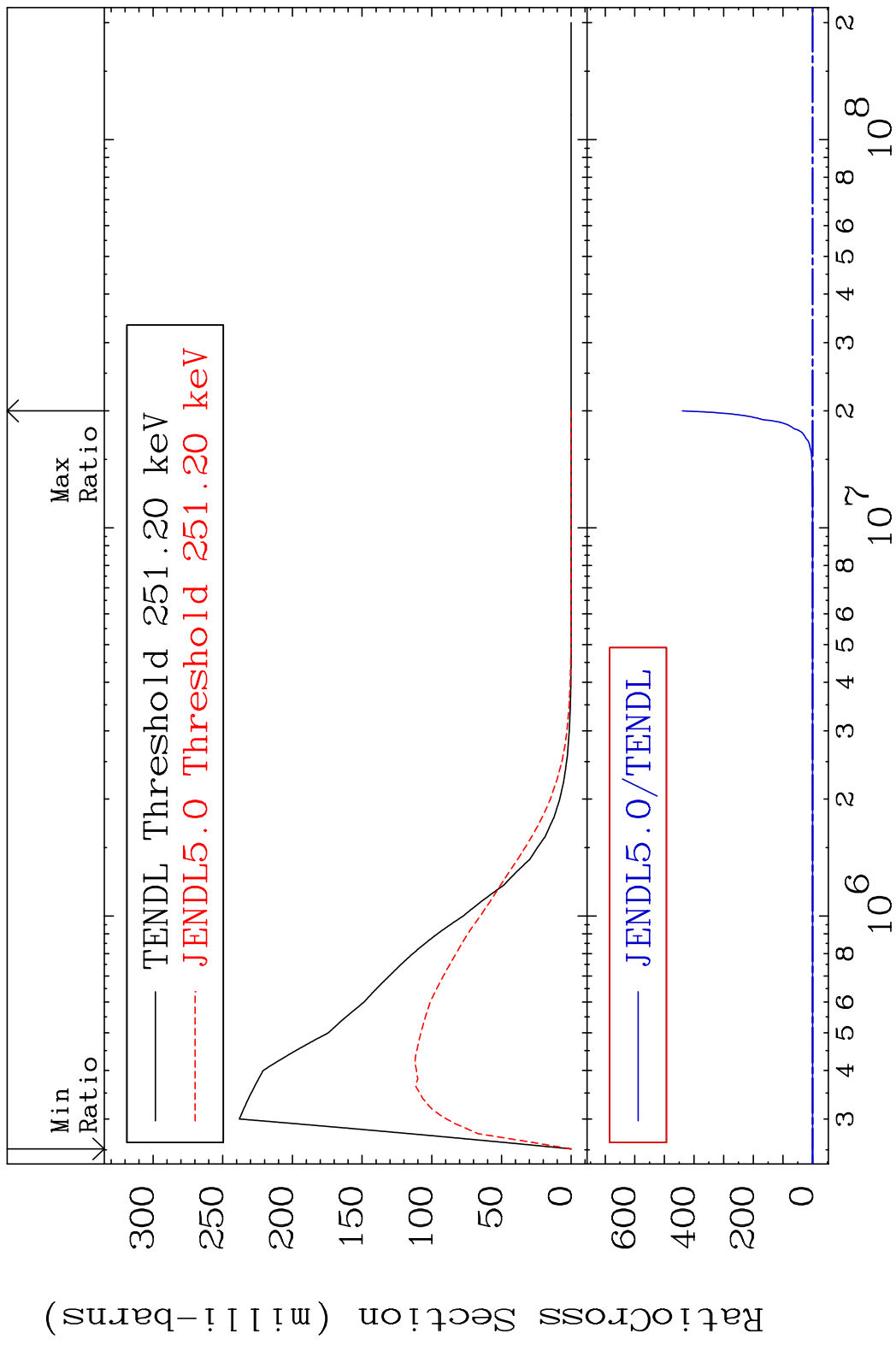
MAT 6428 MT= 61 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



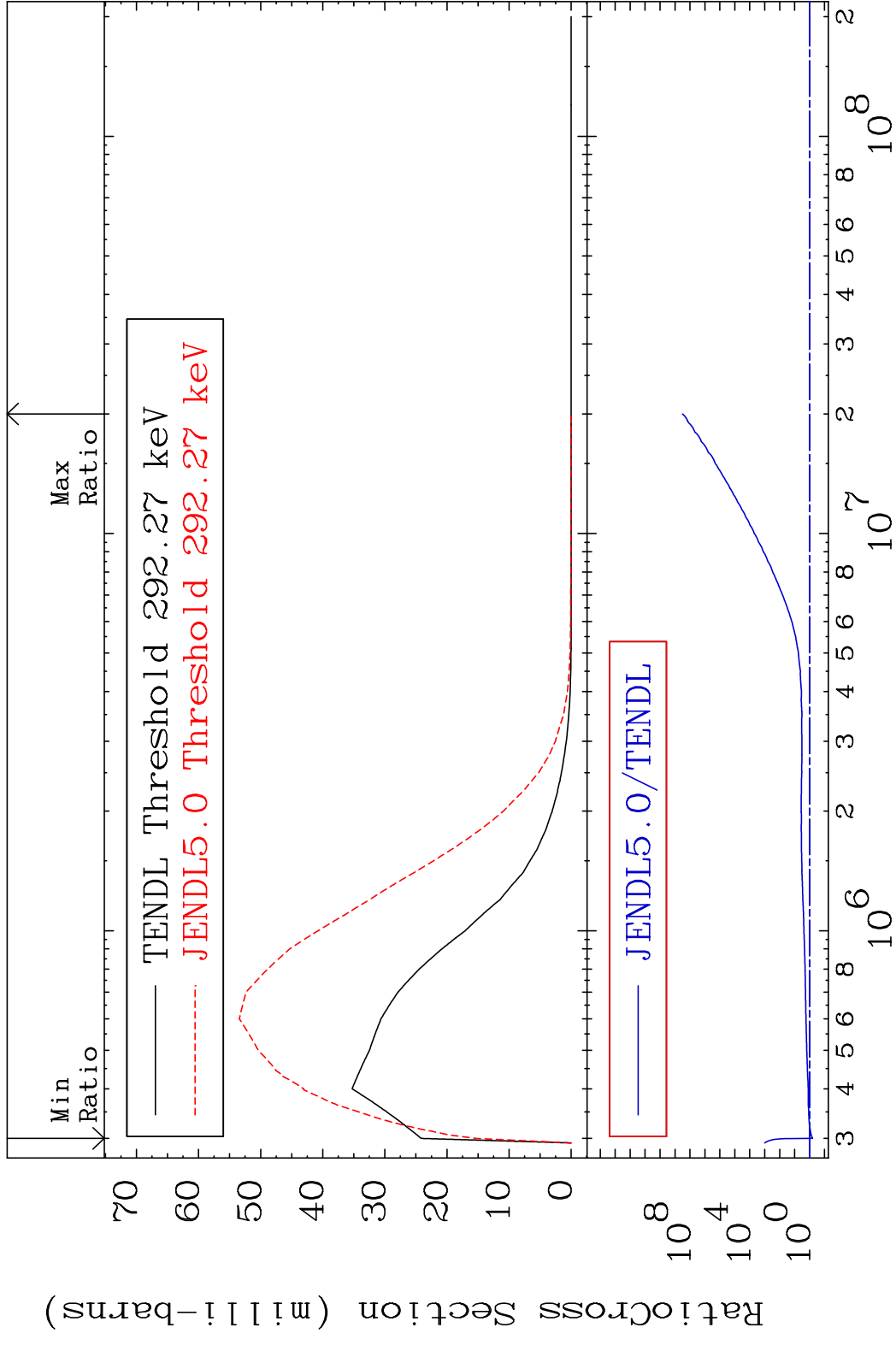
MAT 6428 MT= 62 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



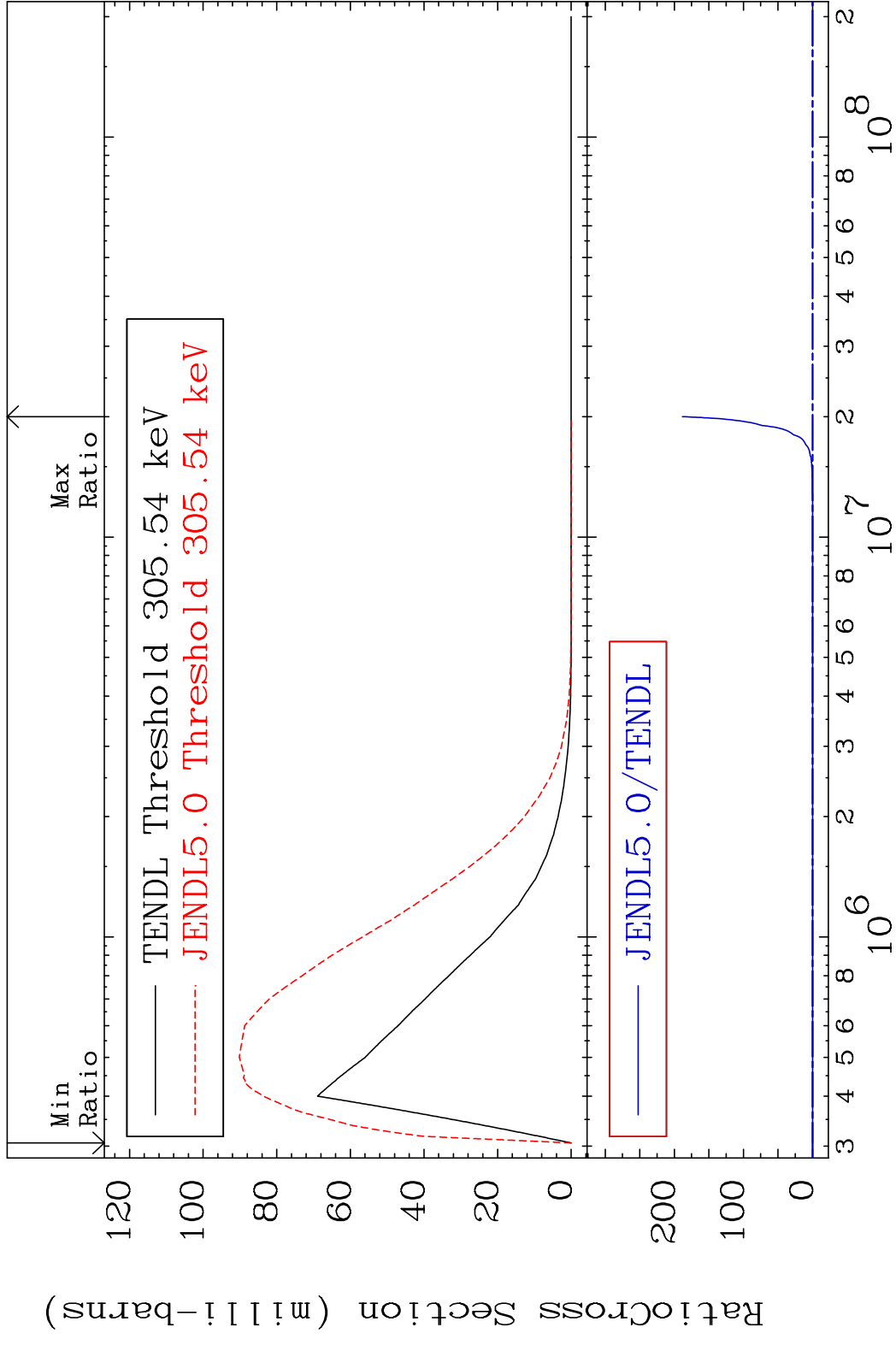
MAT 6428 MT= 63 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



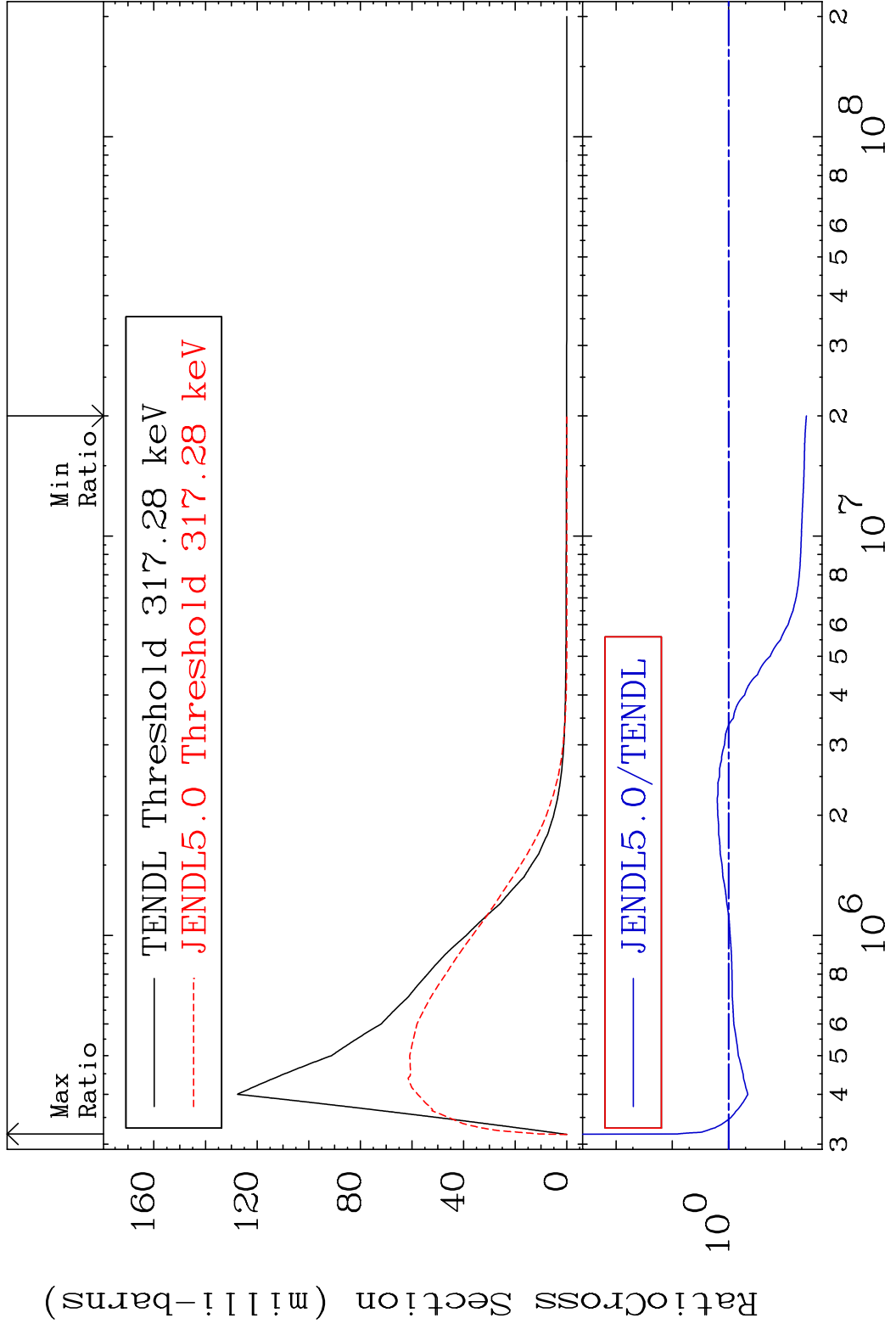
MAT 6428 MT= 64 (n, n') Level 64-Gd-153
 Cross Section -36.78 To 9999. %



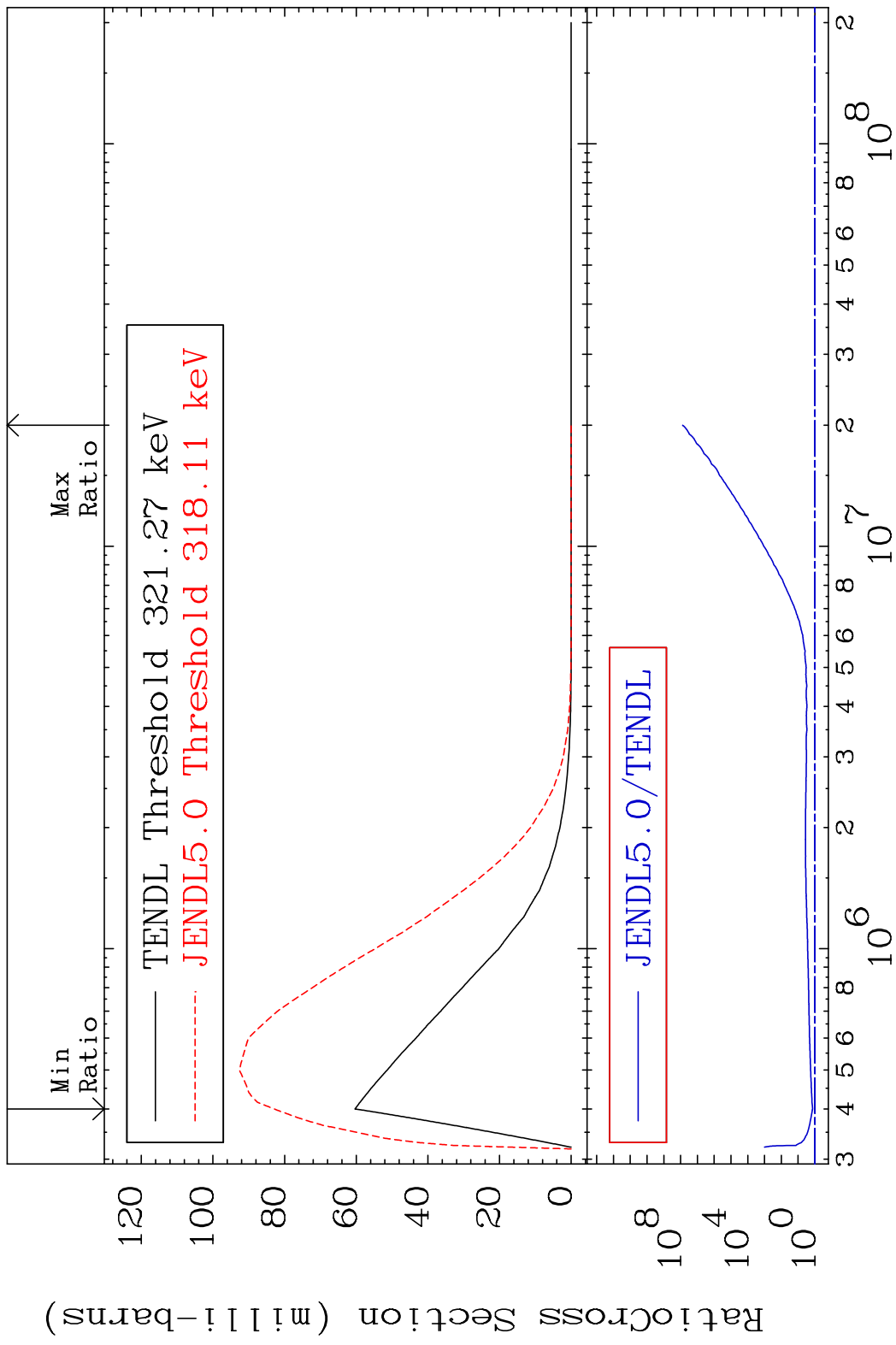
MAT 6428 MT= 65 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



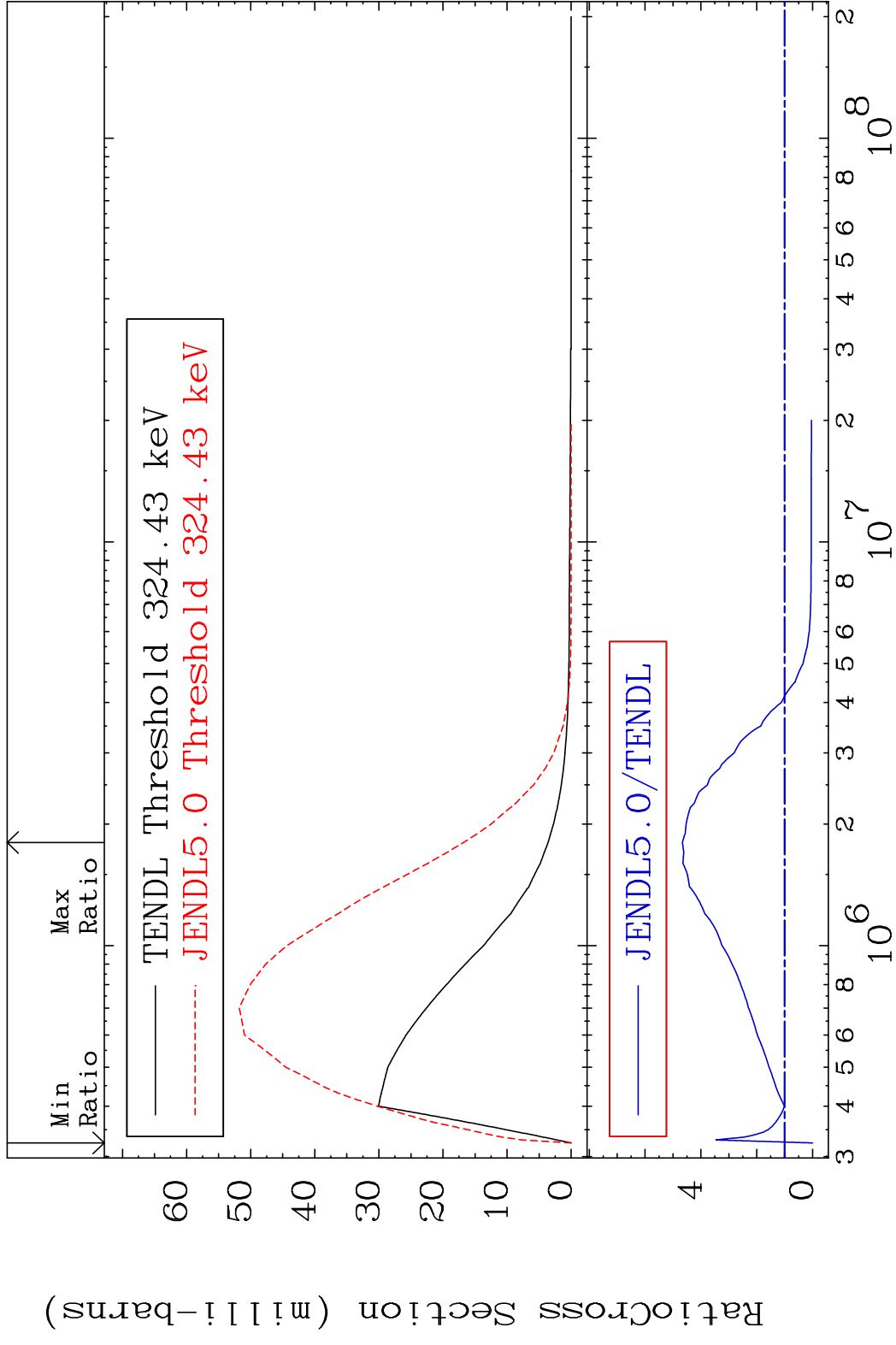
MAT 6428 MT= 66 (n,n') Level 64-Gd-153
 Cross Section -95.87 To 718.1 %



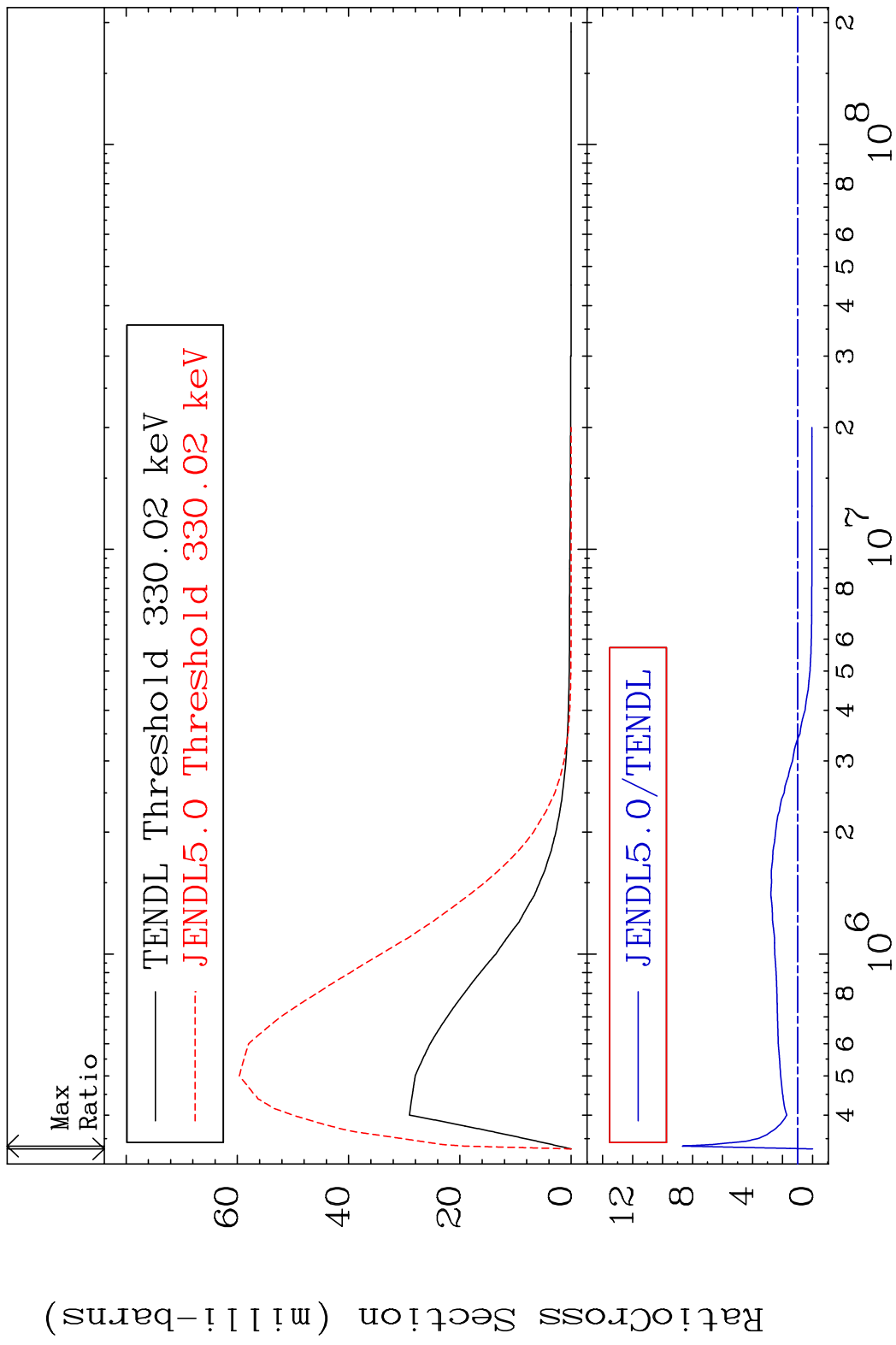
MAT 6428 MT= 67 (n,n') Level 64-Gd-153
 Cross Section 37.54 To 9999. %



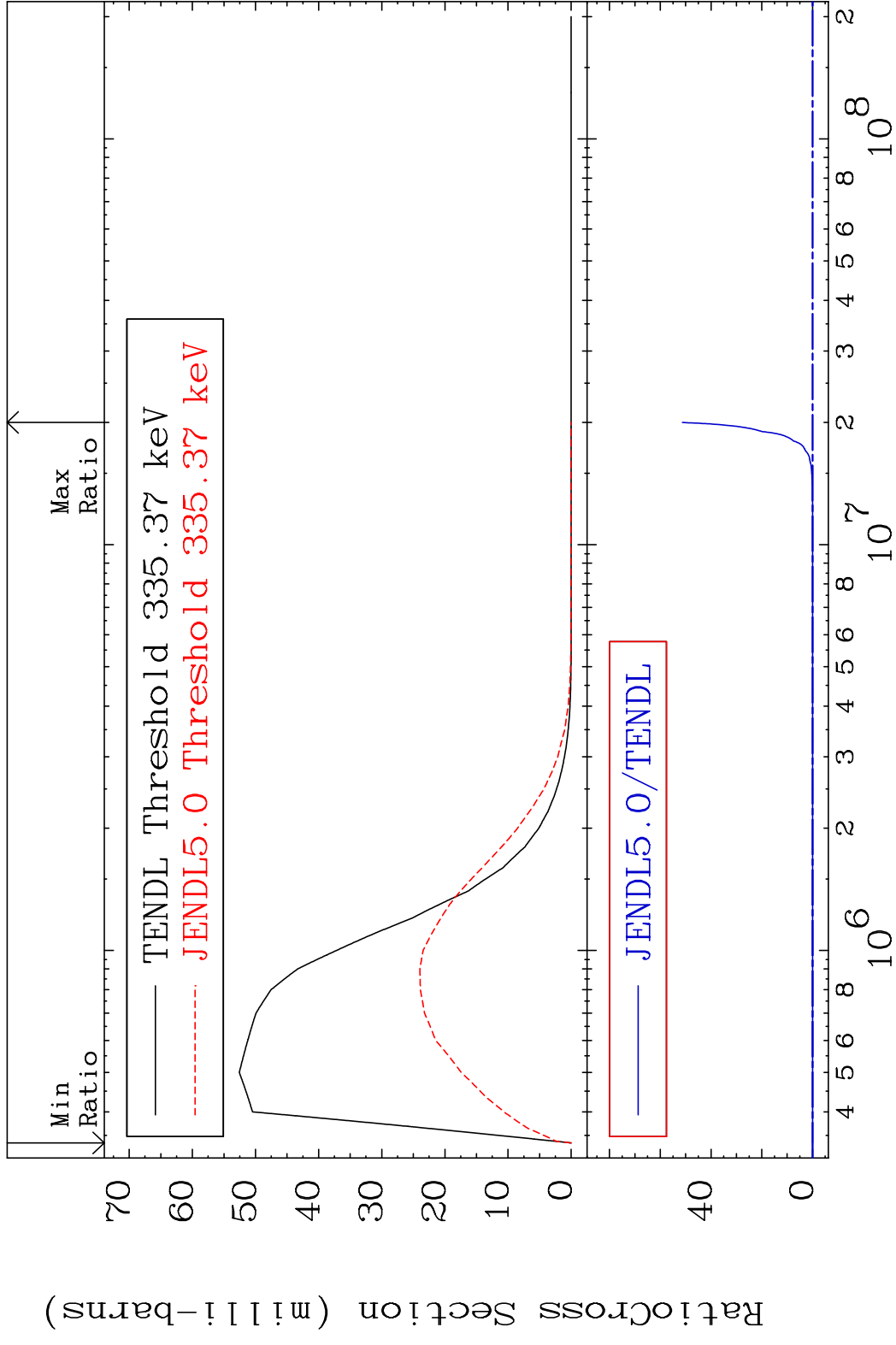
MAT 6428 MT= 68 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 366.5 %



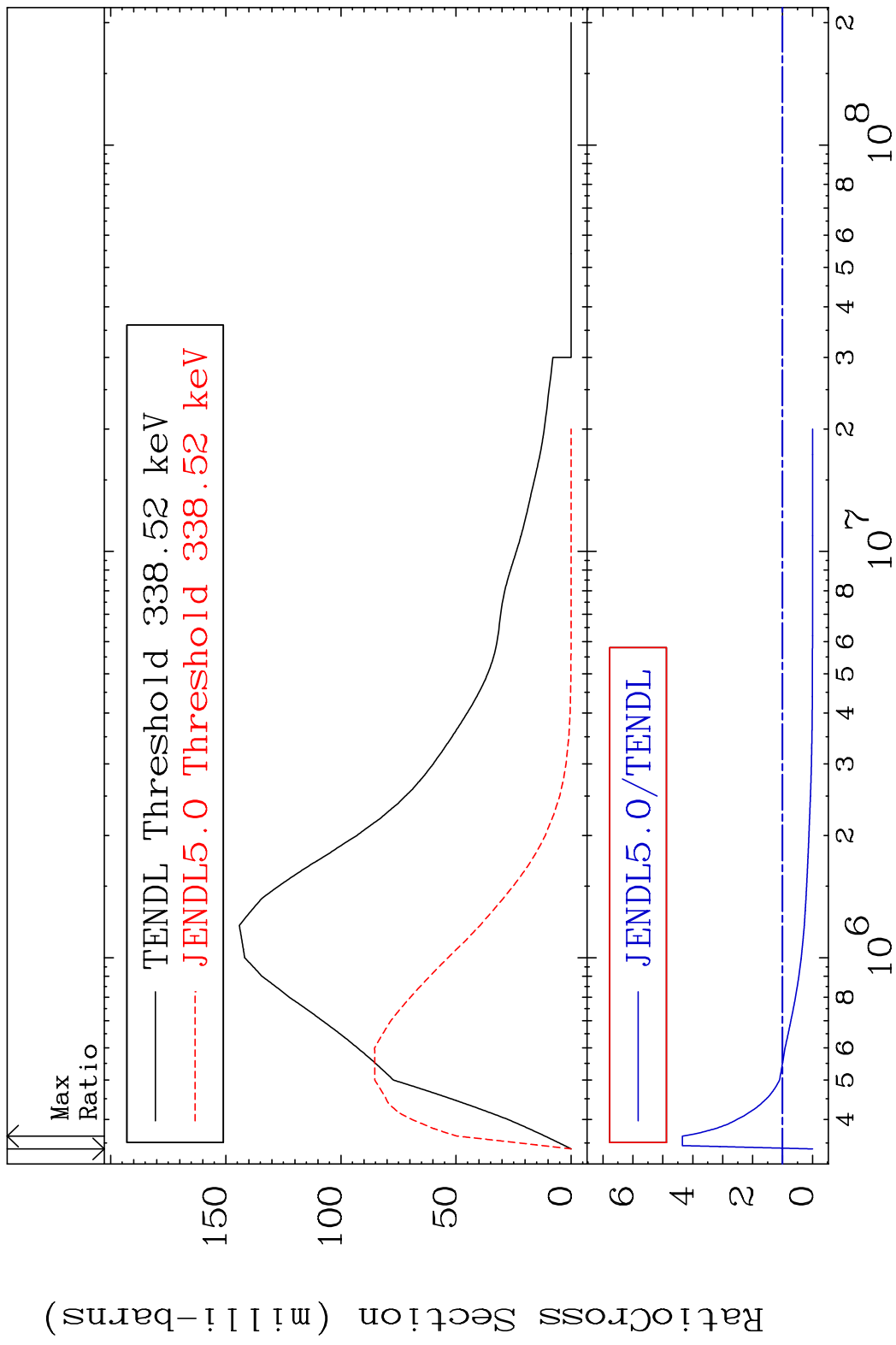
MAT 6428 MT= 69 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 768.1 %



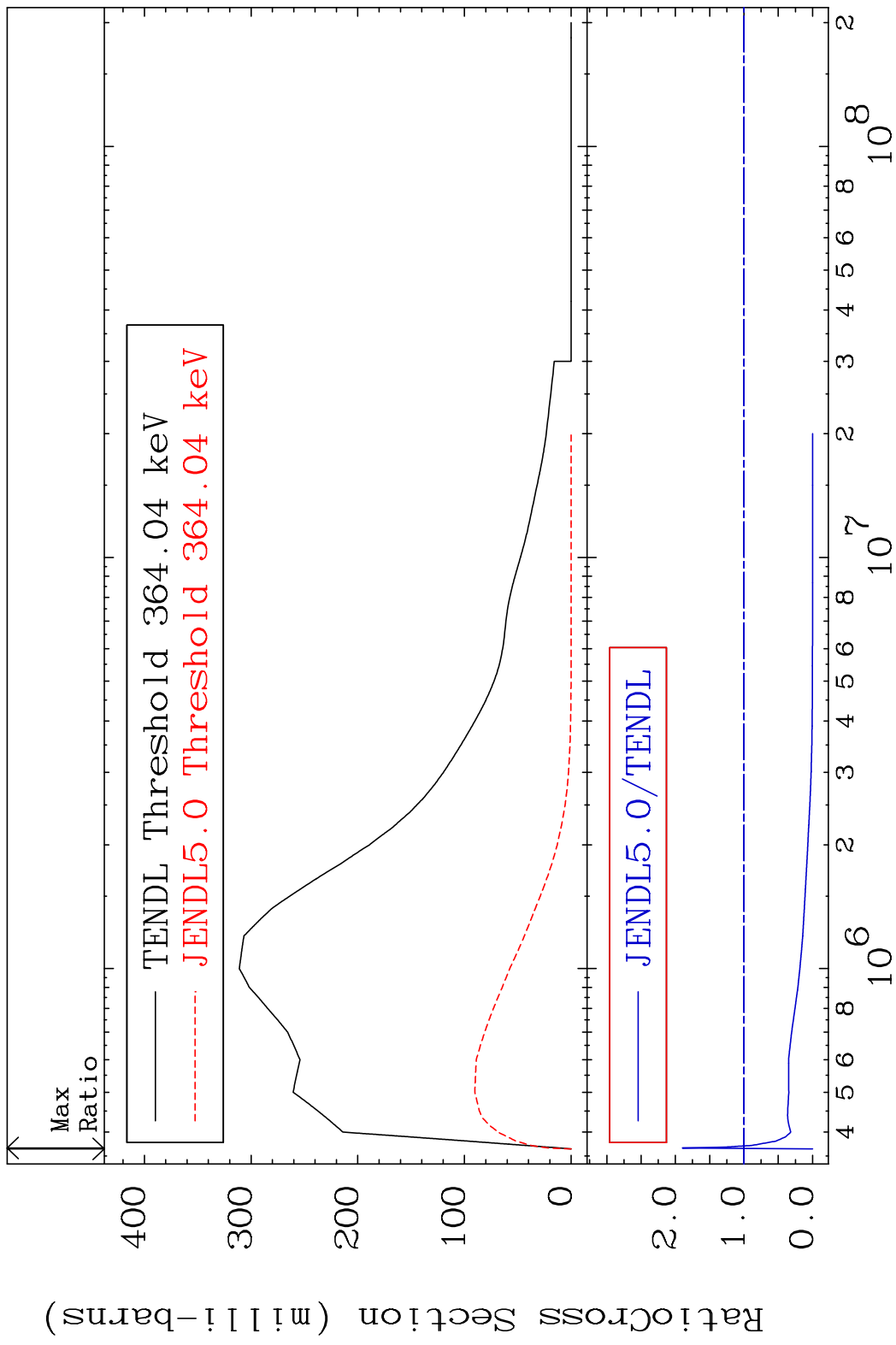
MAT 6428 MT= 70 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



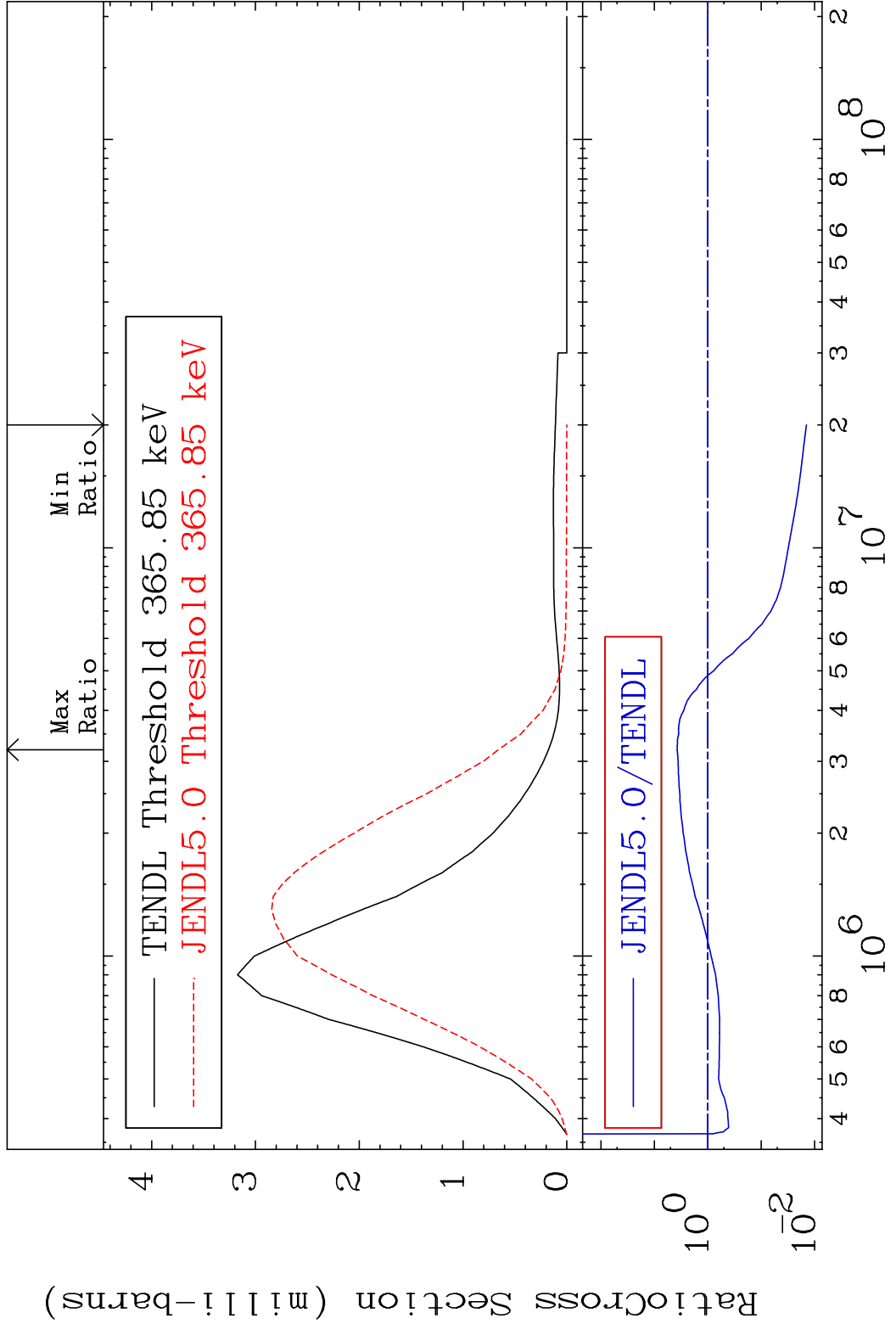
MAT 6428 MT= 71 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 334.8 %



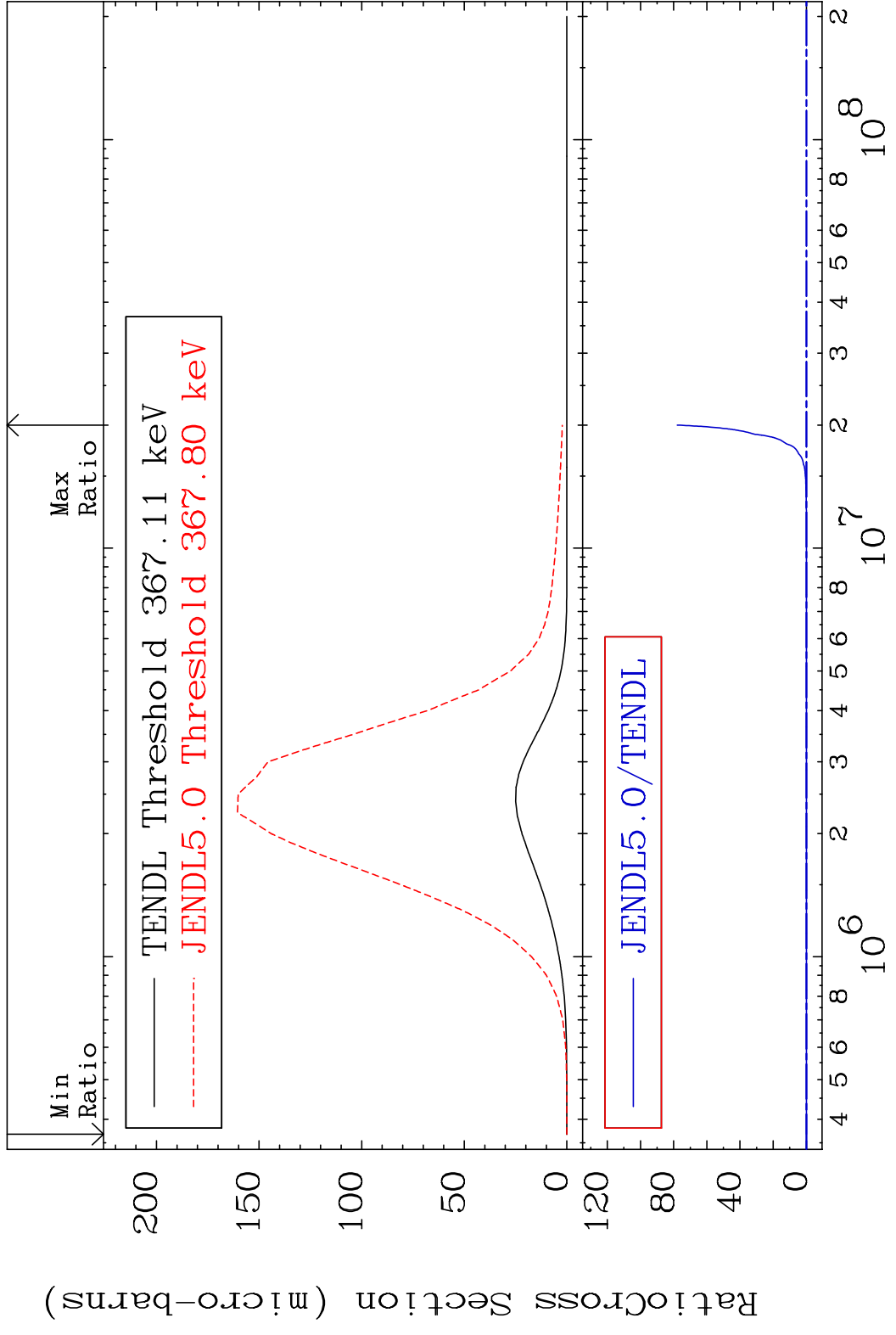
MAT 6428 MT= 72 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 89.84 %



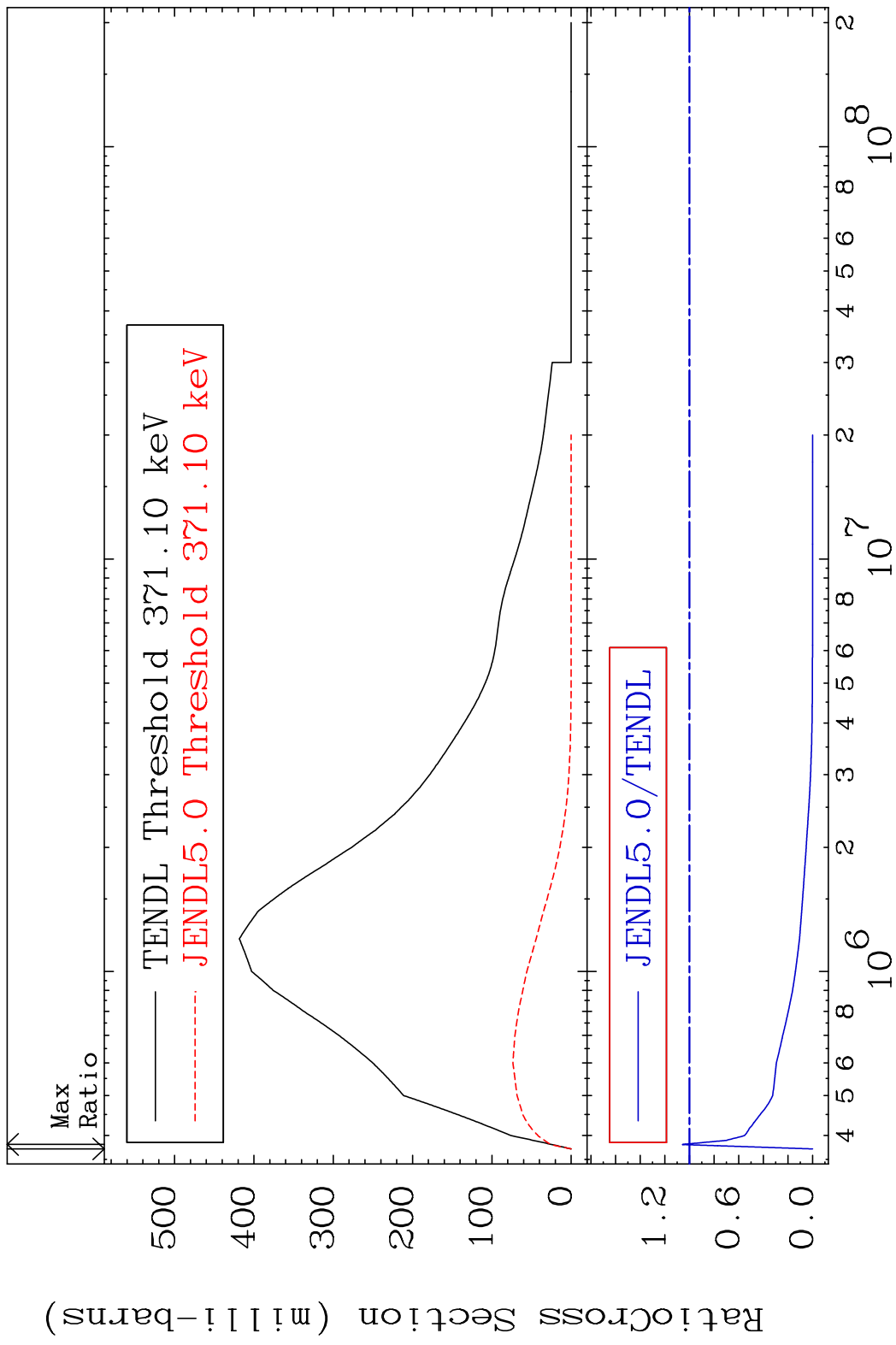
MAT 6428 MT= 73 (n, n') Level 64-Gd-153
 Cross Section -98.58 To 273.6 %



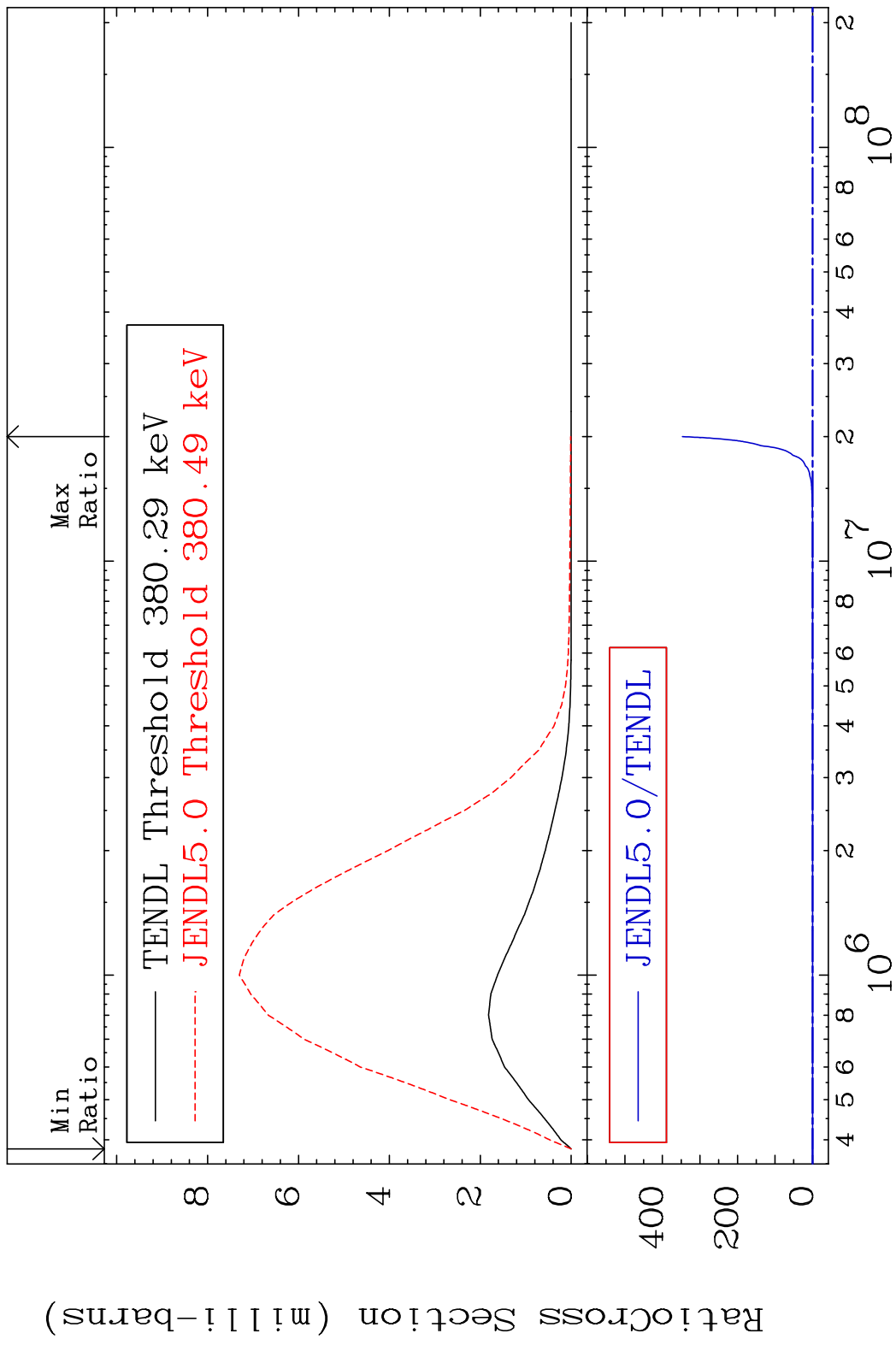
MAT 6428 MT= 74 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



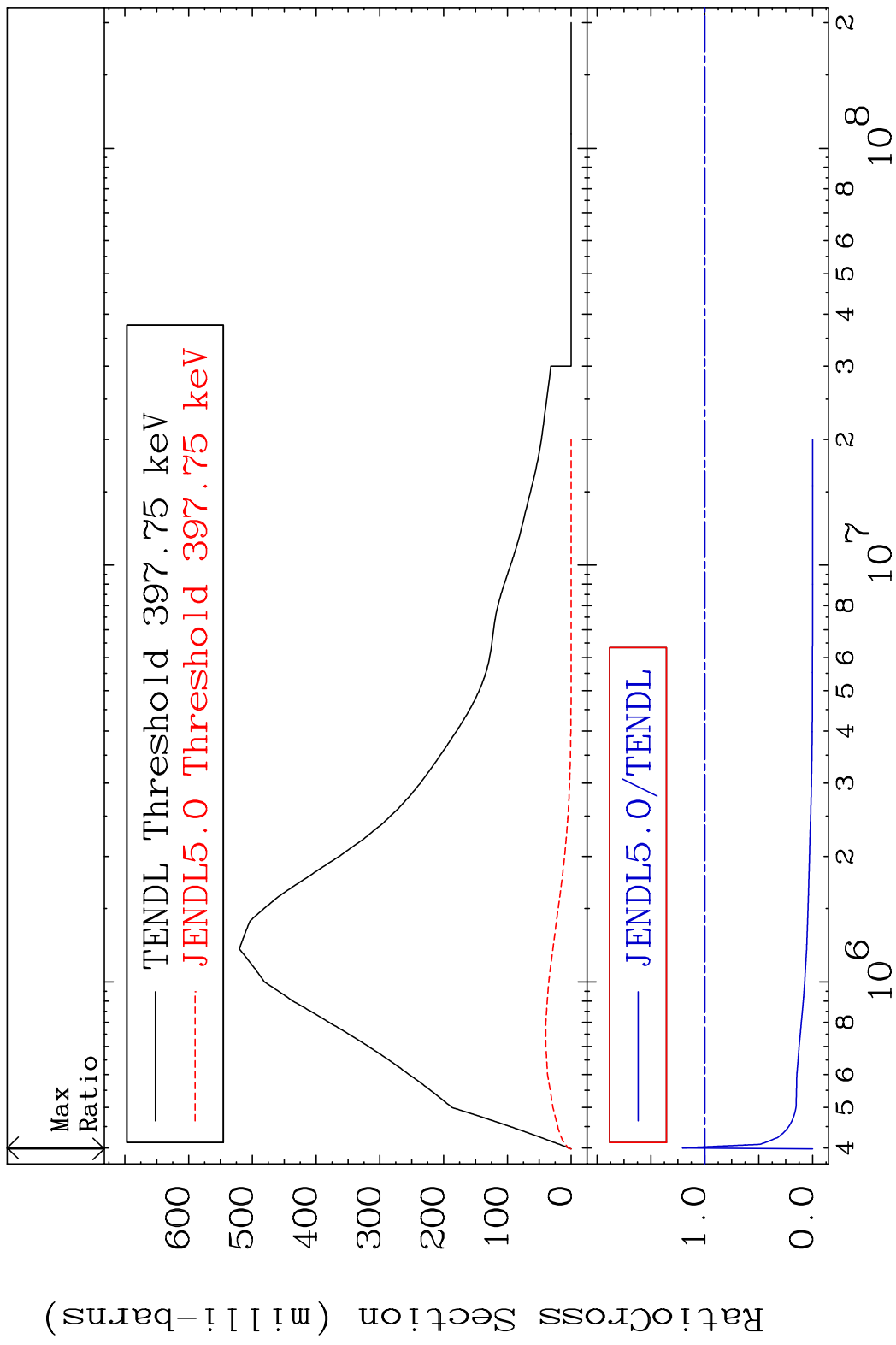
MAT 6428 MT= 75 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 5.719 %



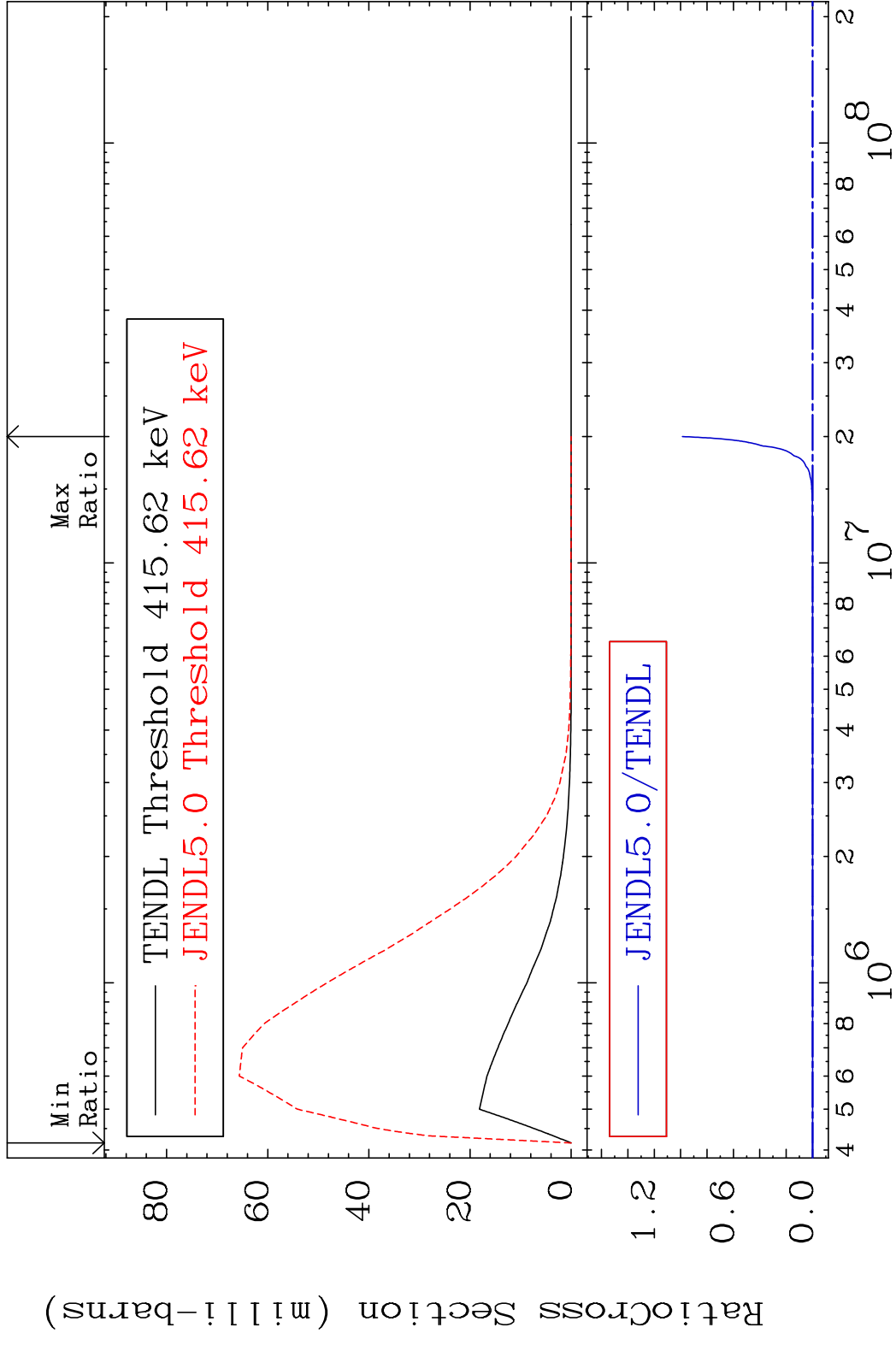
MAT 6428 MT= 76 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %



MAT 6428 MT= 77 (n, n') Level 64-Gd-153
 Cross Section -100.0 To 20.85 %



MAT 6428 MT= 78 (n,n') Level 64-Gd-153
 Cross Section -100.0 To 9999. %

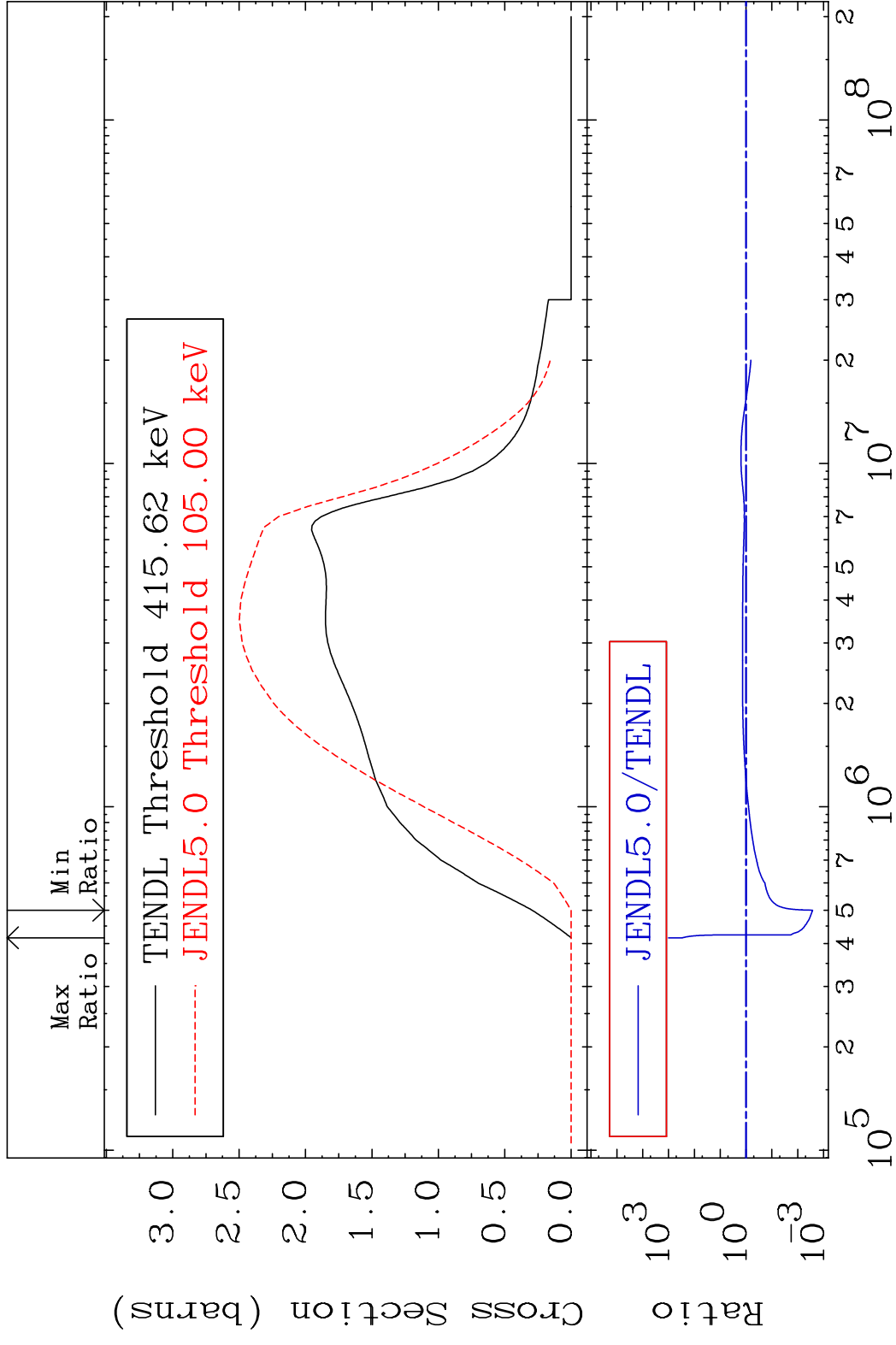


MAT 6428

(n, n') Continuum

64-Gd-153

Cross Section -99.73 To 9999. %



40

Incident Energy (eV)

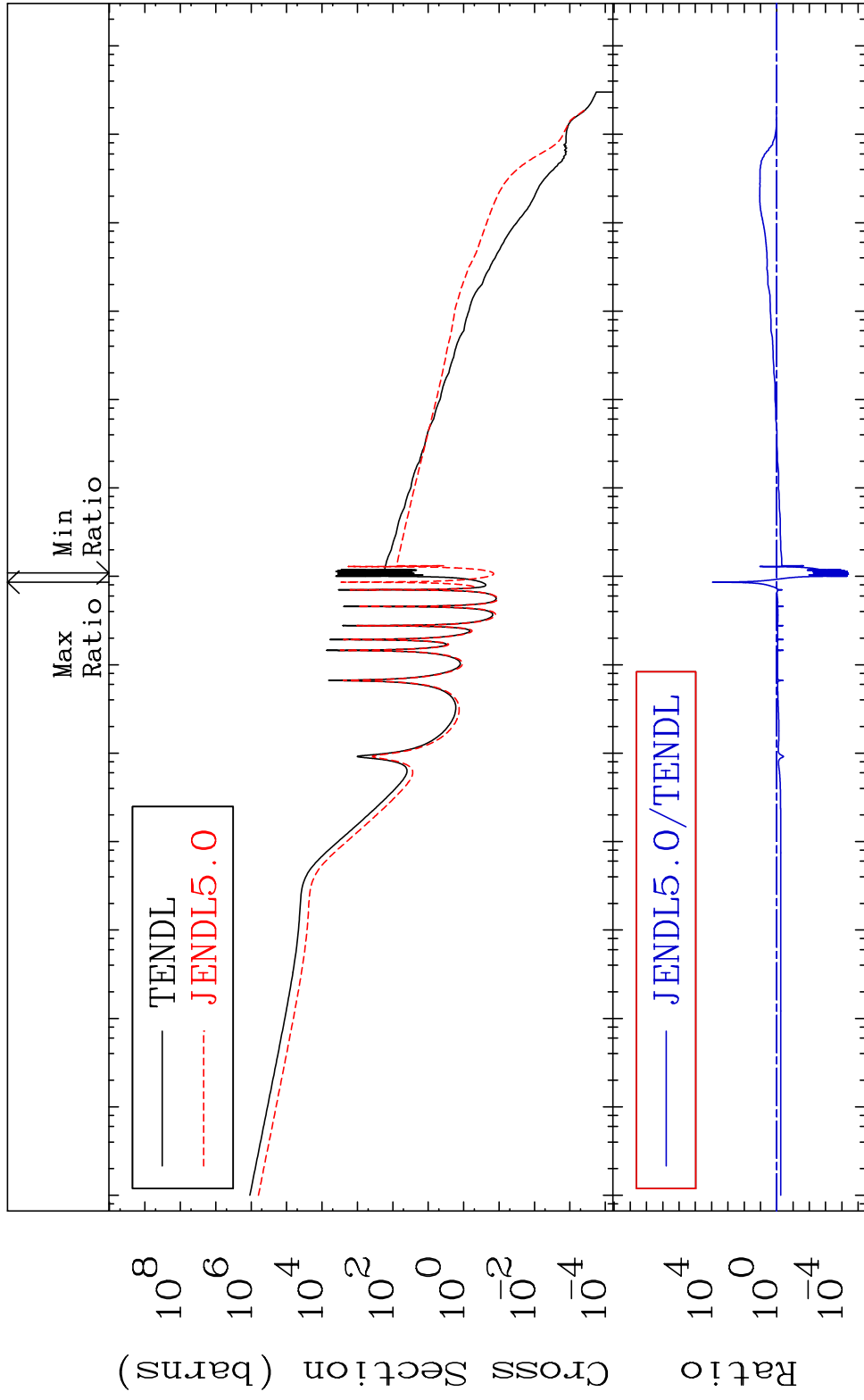
64-Gd-153

MAT 6428

(n, γ)

64-Gd-153

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

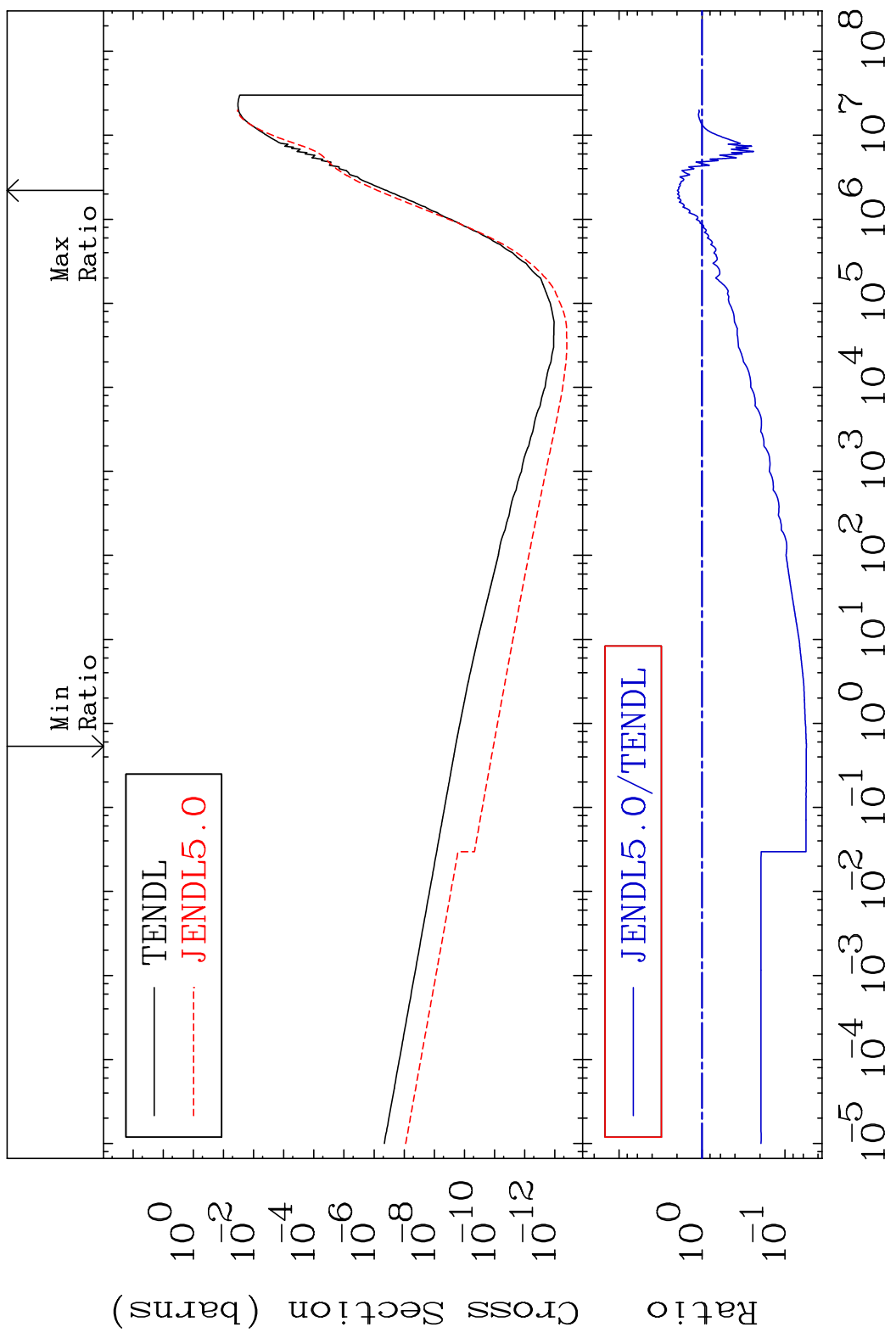
64-Gd-153

MAT 6428

(n, p)

64-Gd-153

Cross Section -94.49 To 99.16 %

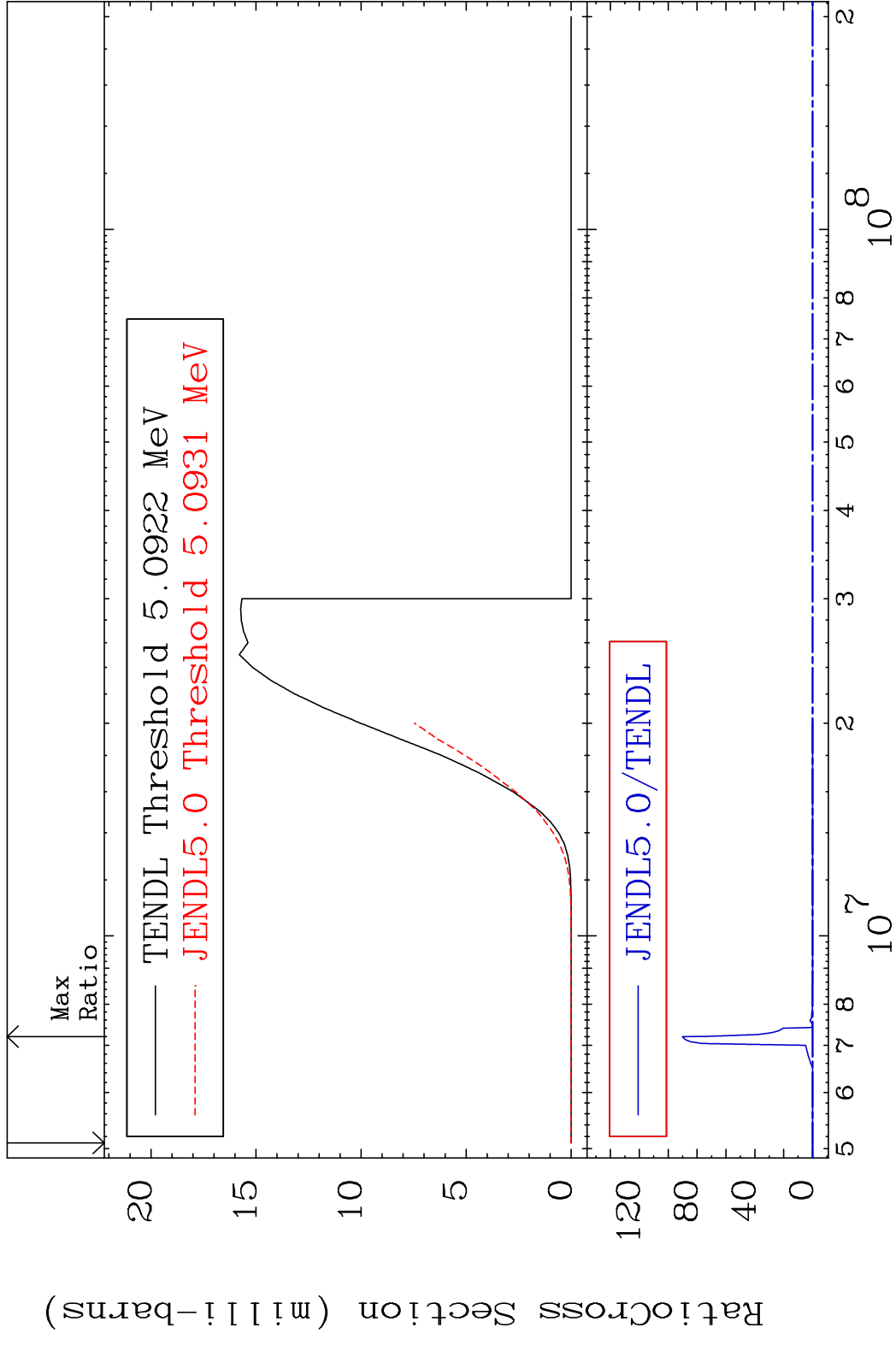


MAT 6428

(n,d)

64-Gd-153

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

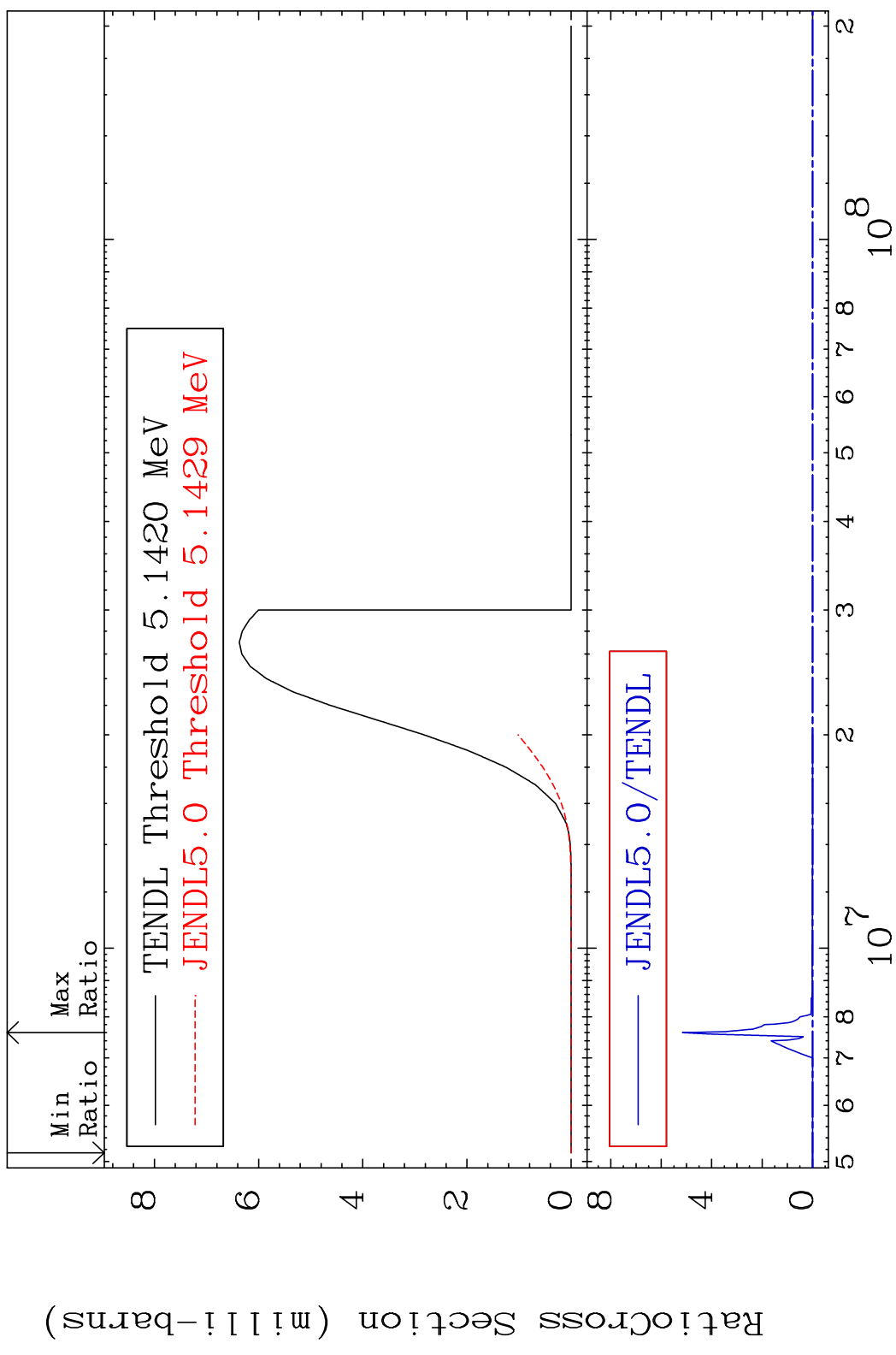
64-Gd-153

MAT 6428

(n, t)

64-Gd-153

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

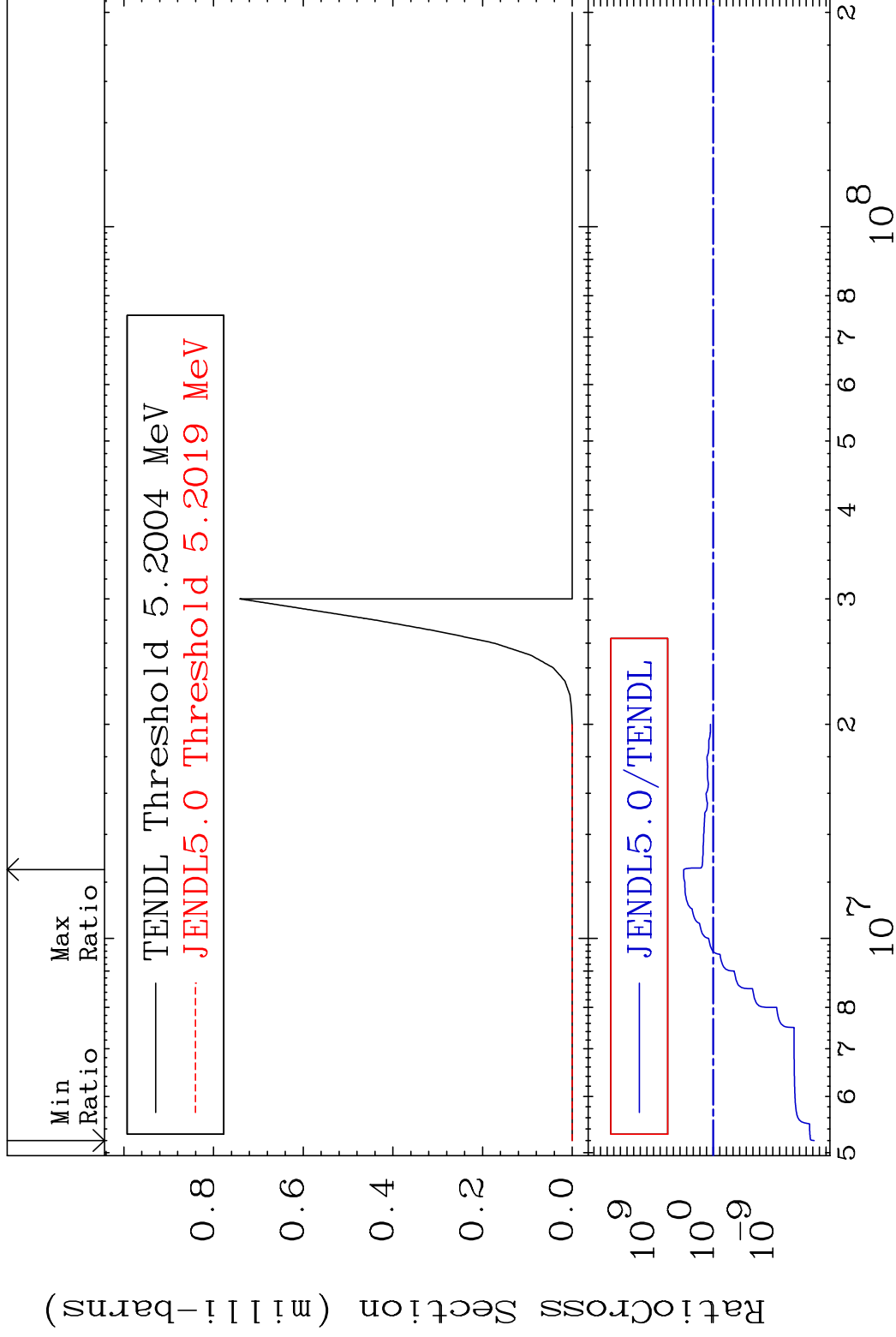
64-Gd-153

MAT 6428

(n, He-3)

64-Gd-153

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

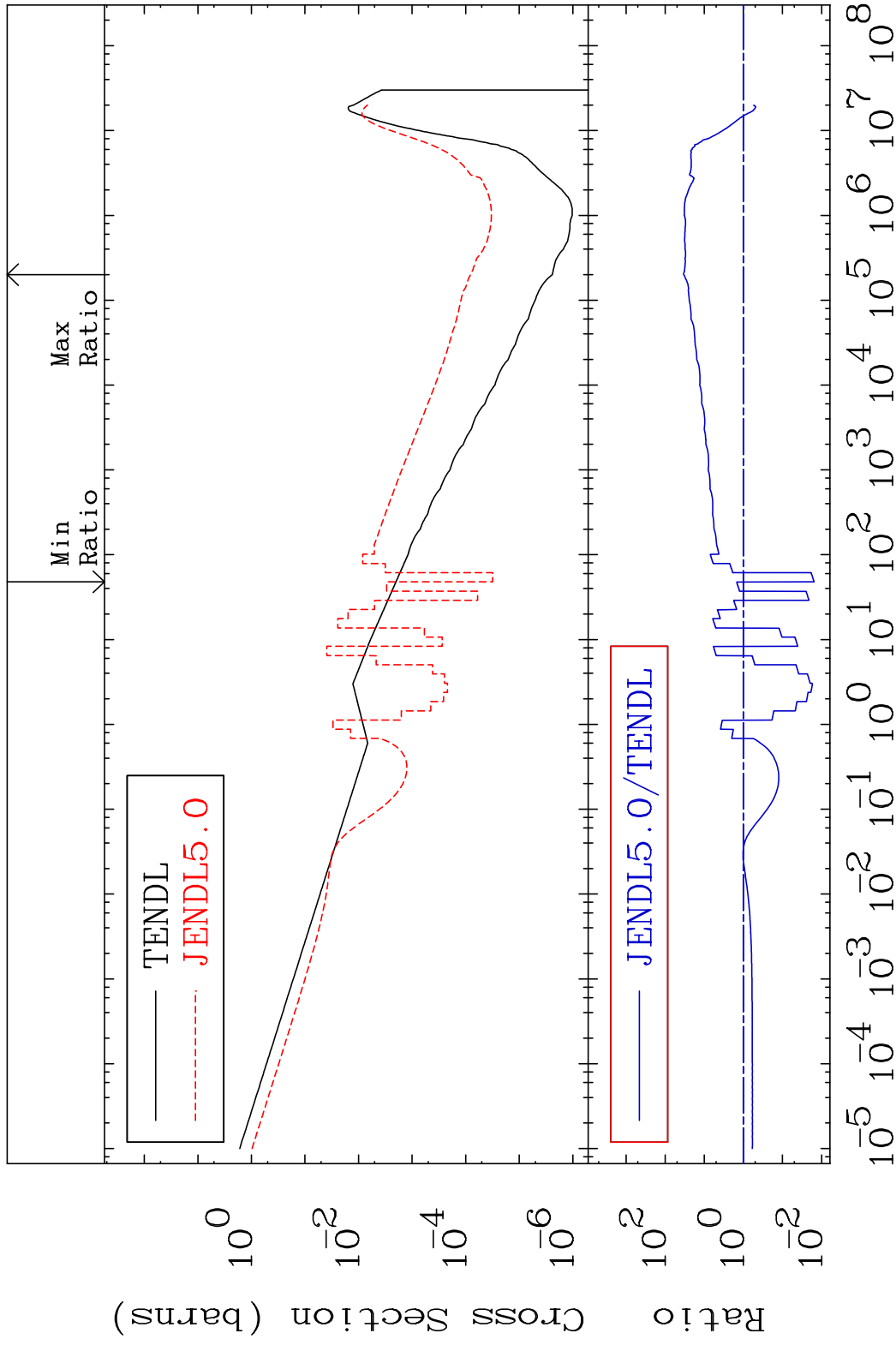
64-Gd-153

MAT 6428

(n, α)

64-Gd-153

Cross Section -98.45 To 3271. %



46

Incident Energy (eV)

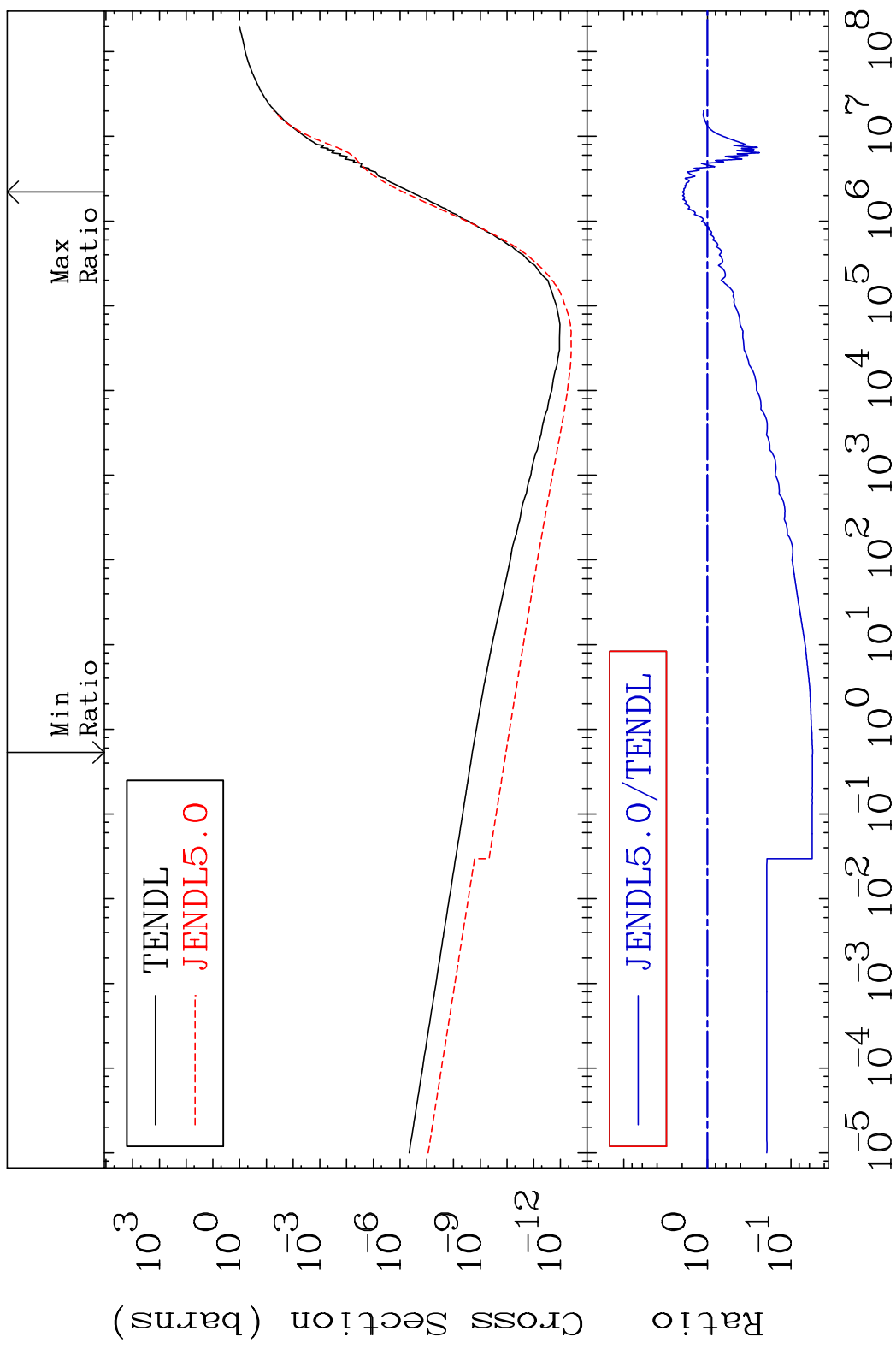
64-Gd-153

MAT 6428

Hydrogen Production

64-Gd-153

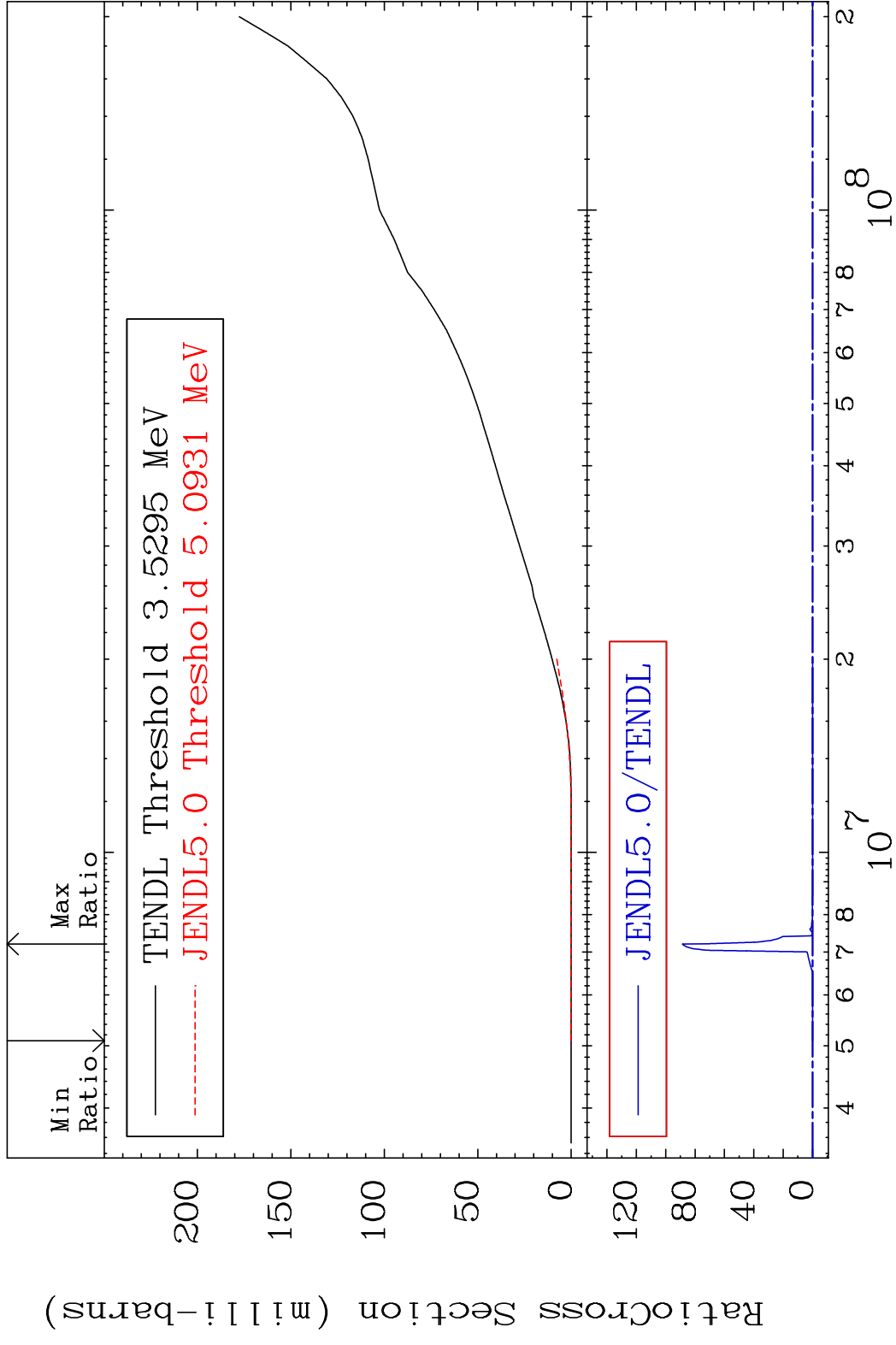
Cross Section -94.49 To 99.16 %



47

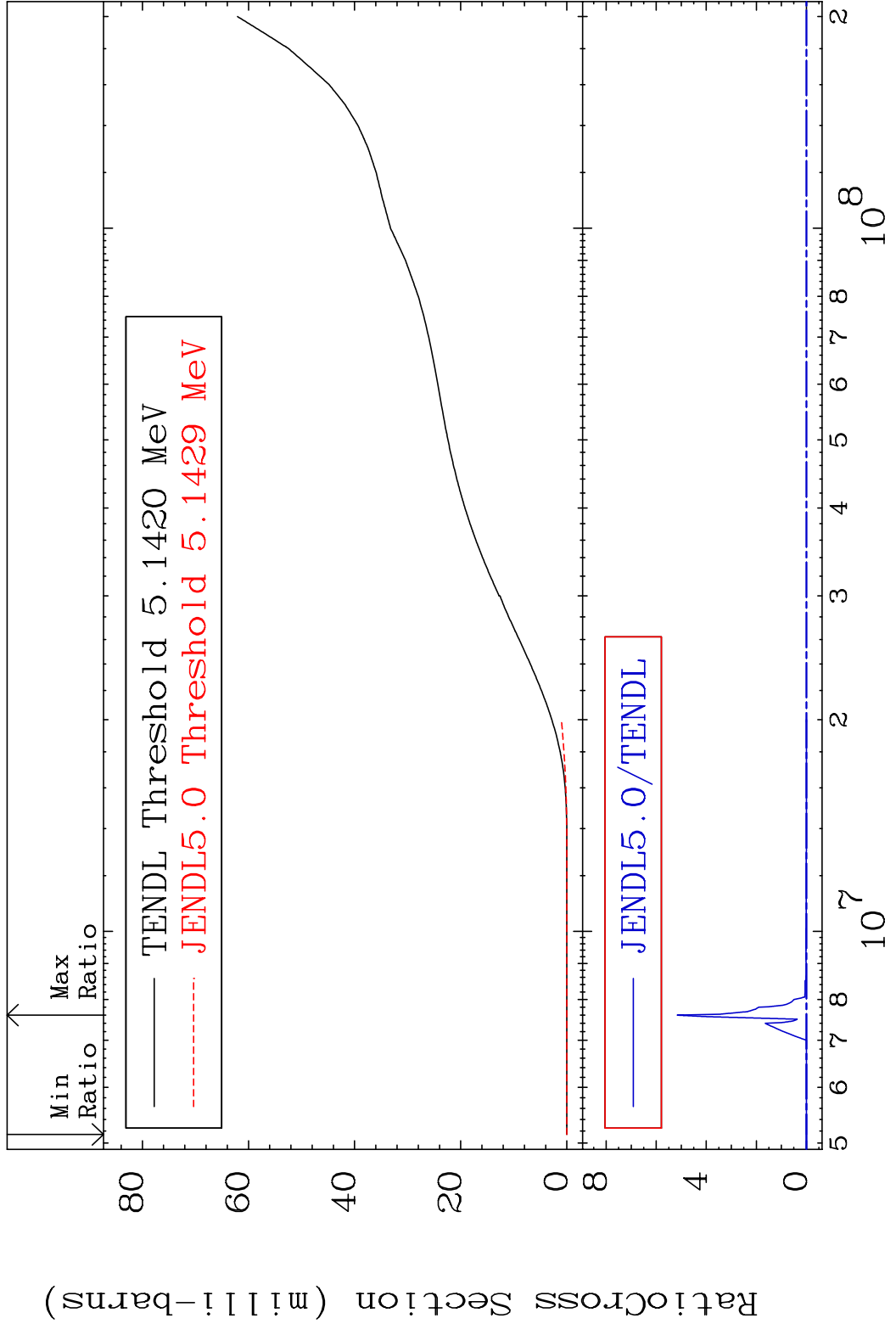
Incident Energy (eV)

64-Gd-153



MAT 6428

Tritium Production 64-Gd-153
Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

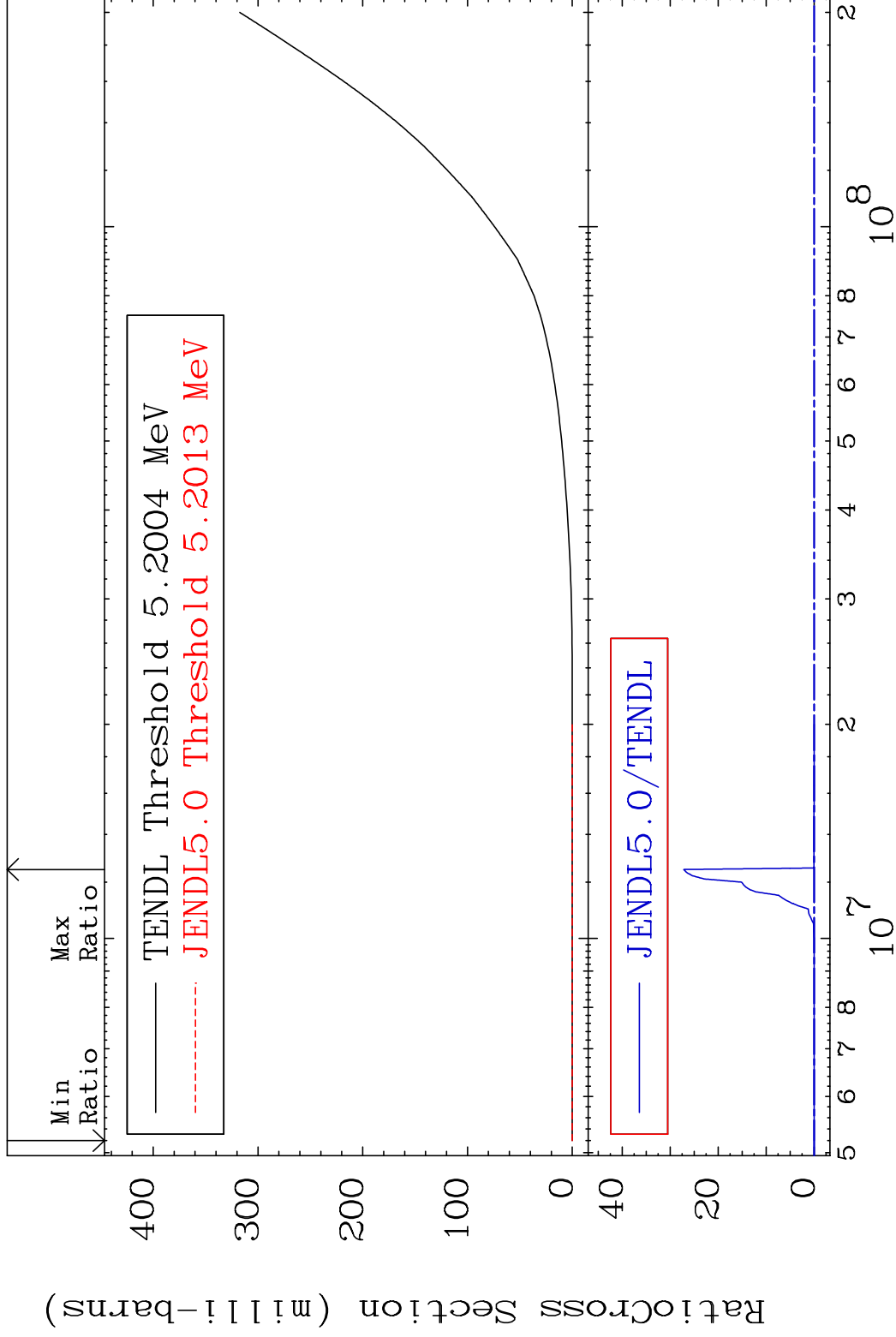
64-Gd-153

MAT 6428

He-3 Production

64-Gd-153

Cross Section -100.0 To 9999. %



50

Incident Energy (eV)

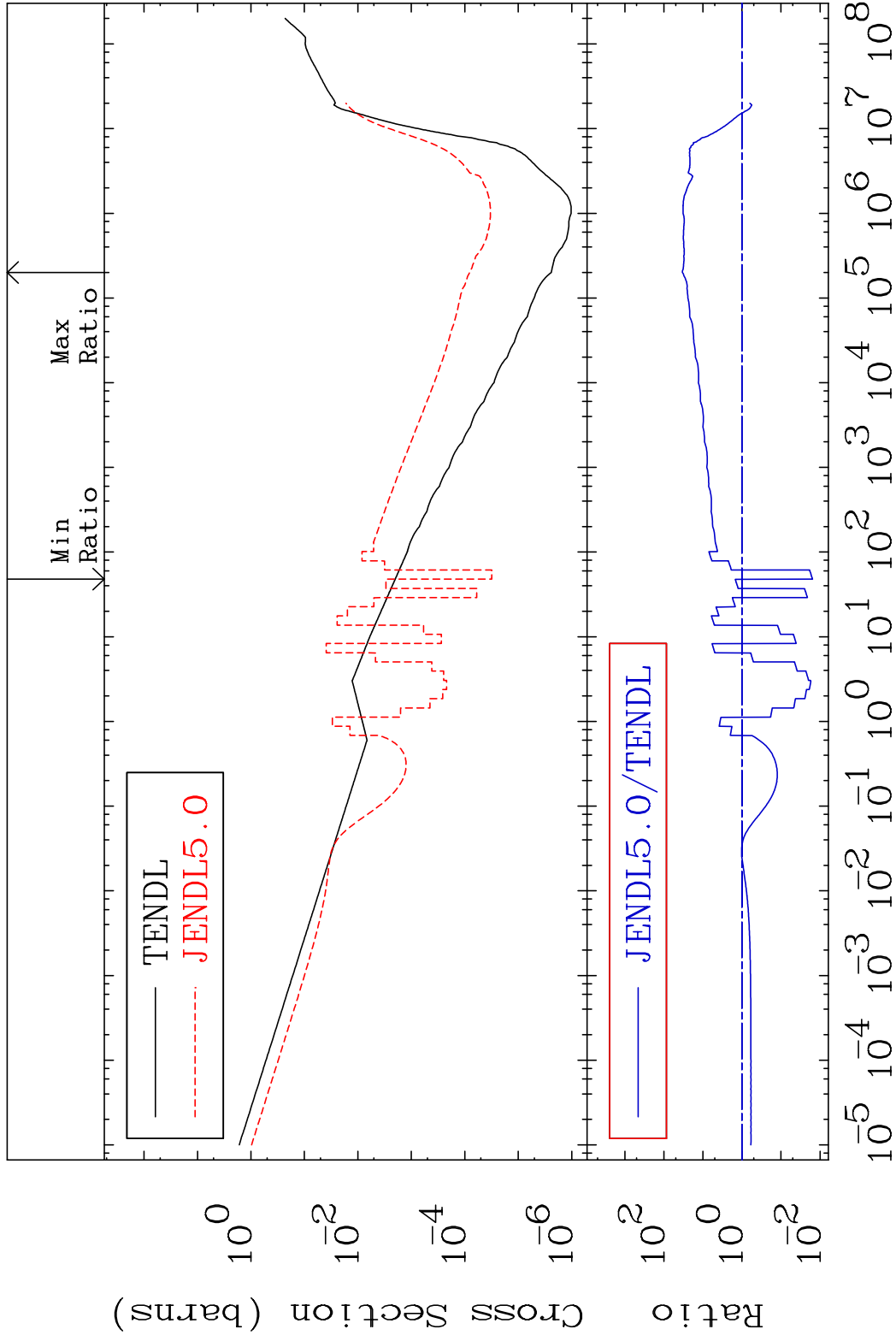
64-Gd-153

MAT 6428

He-4 Production

64-Gd-153

Cross Section -98.45 To 3271. %

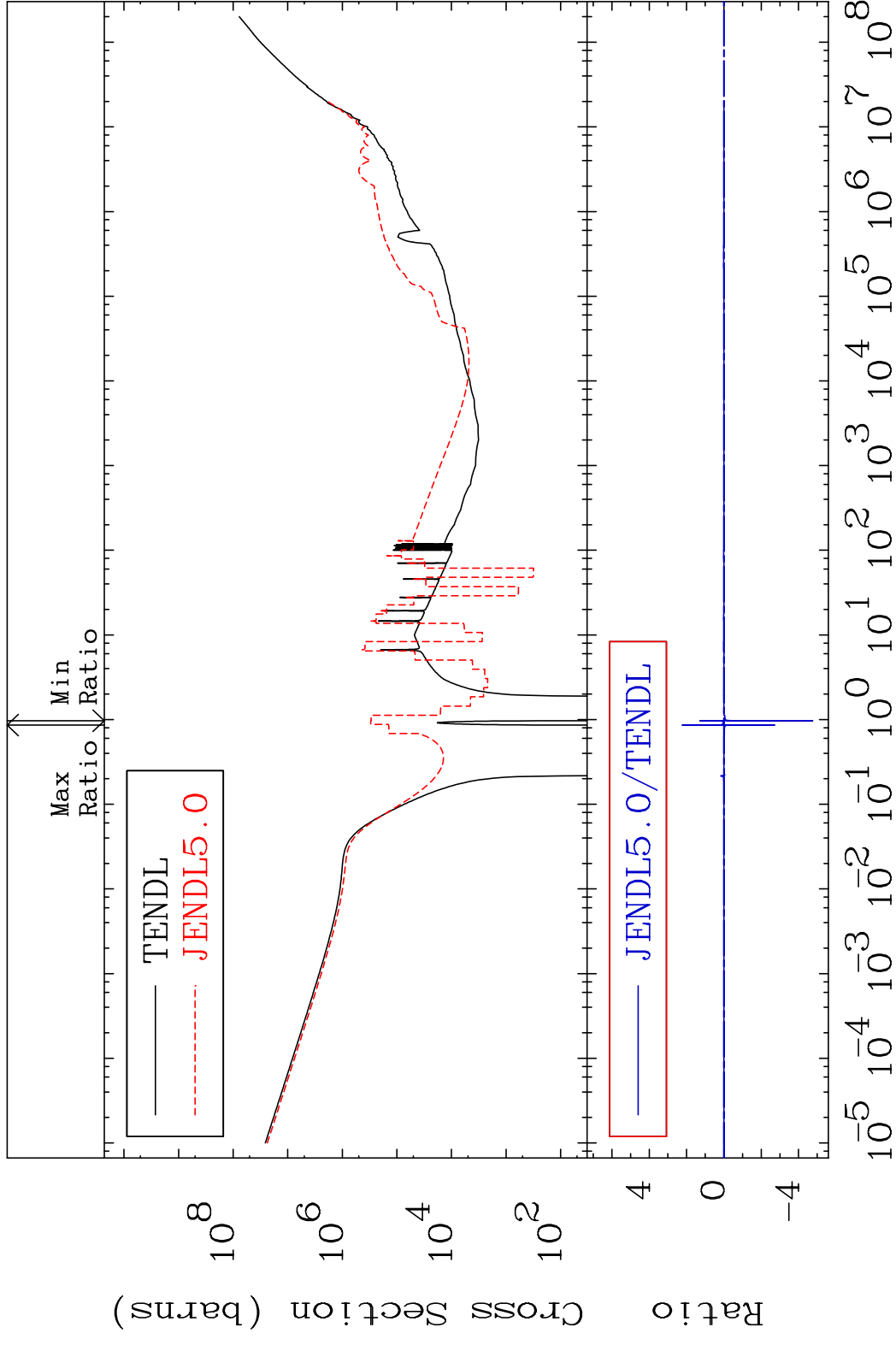


51

Incident Energy (eV)

64-Gd-153

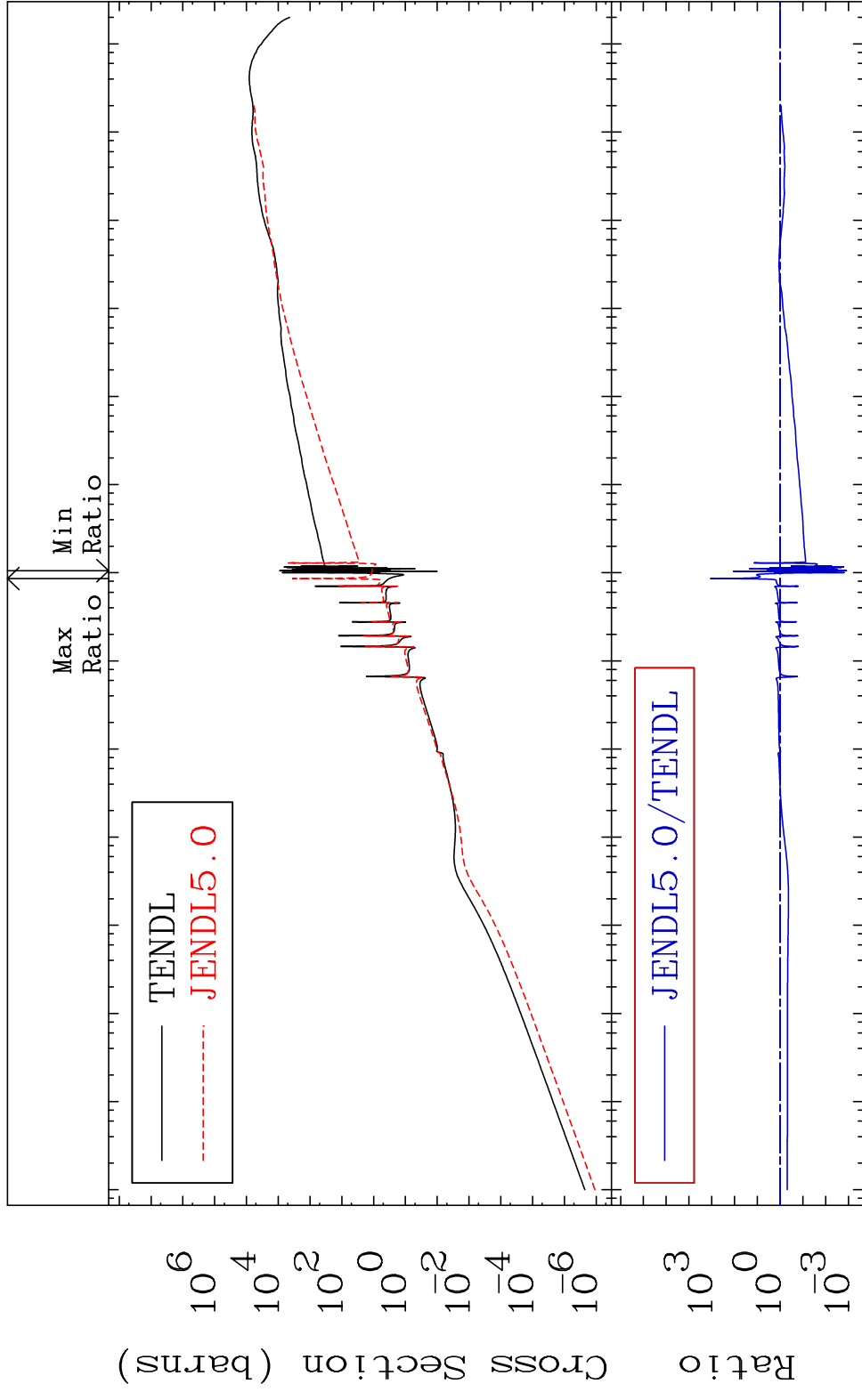
MAT 6428 Kerma total (eV-barns) 64-Gd-153
 Cross Section -9999. To 9999. %



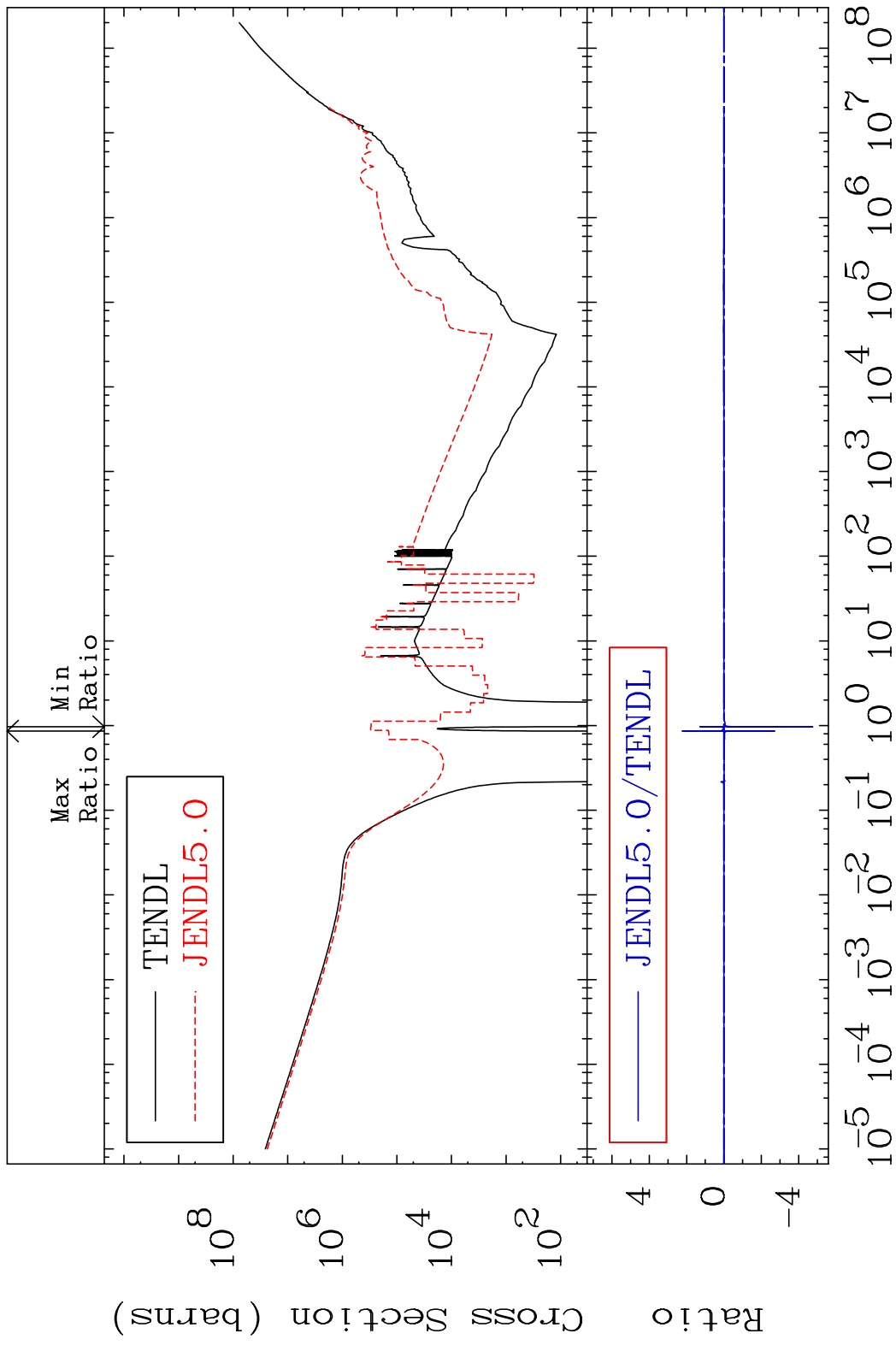
MAT 6428

Kerma elastic
Cross Section

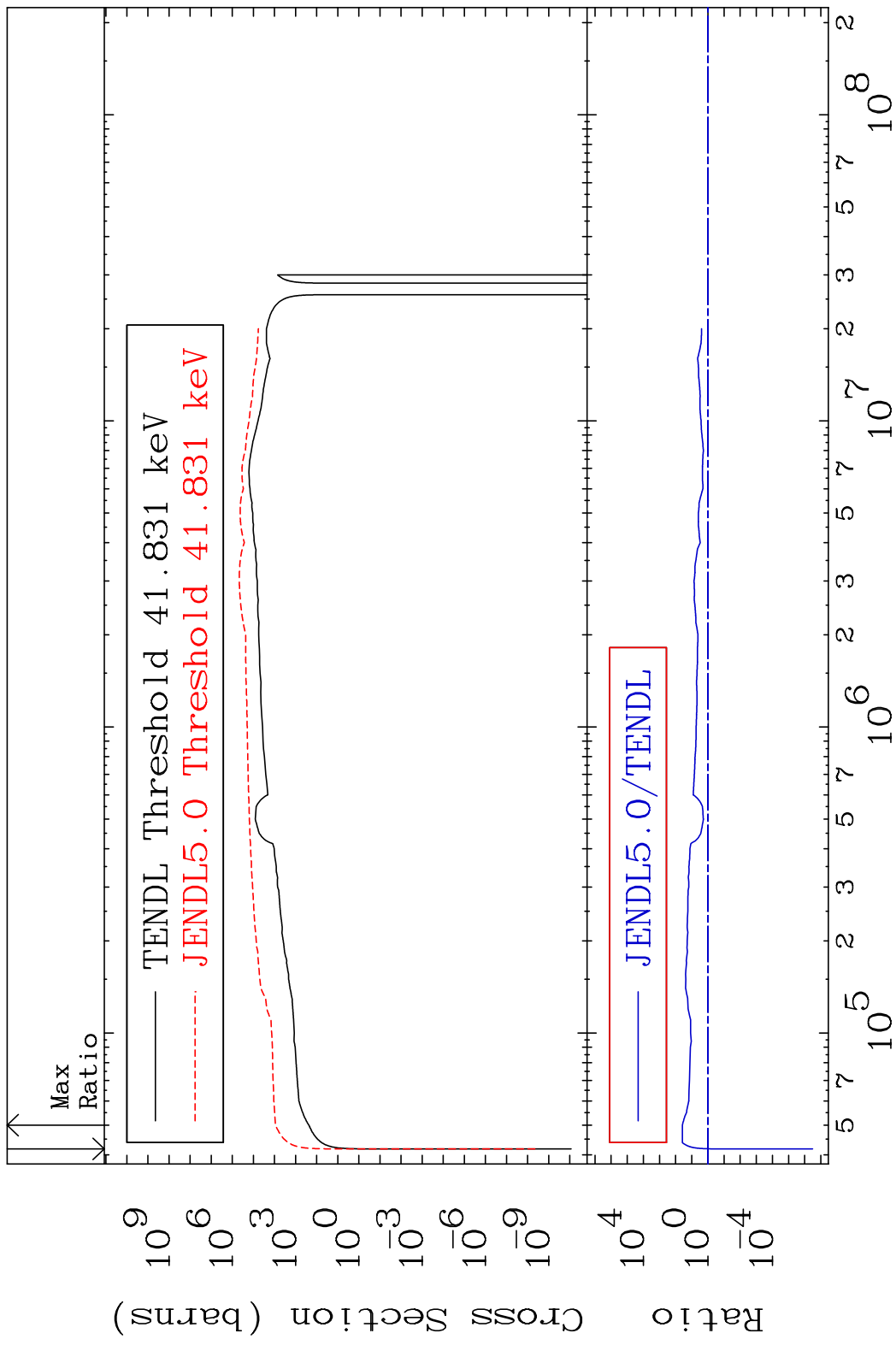
64-Gd-153
-99.88 To 9999. %



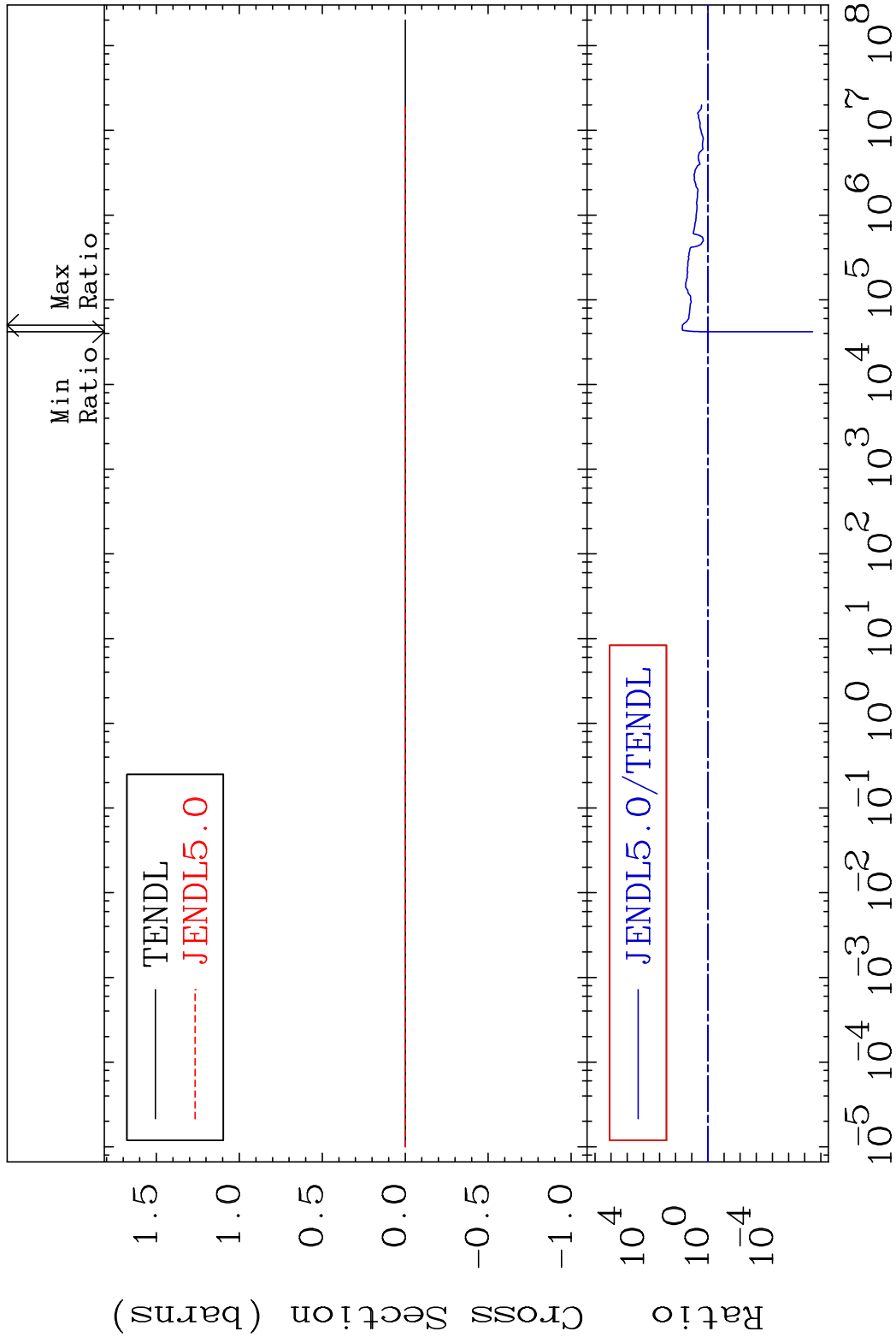
MAT 6428 Kerma non-elastic (all but mt2) 64-Gd-153
 Cross Section -9999. To 9999. %



MAT 6428 Kerma inelastic (mt51-91) 64-Gd-153
 Cross Section -100.0 To 3729. %

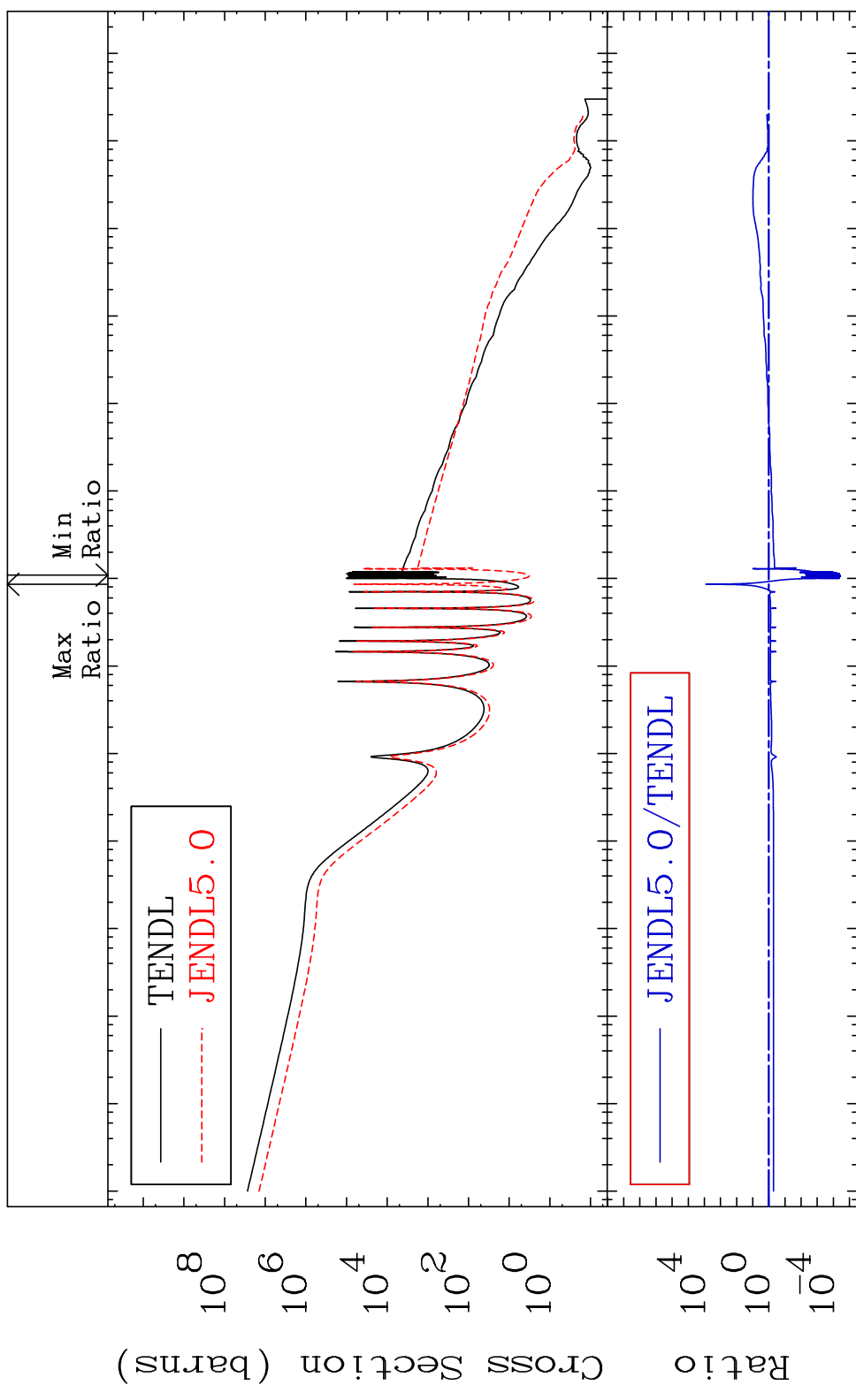


MAT 6428 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-153
 Cross Section -100.0 To 3729. %

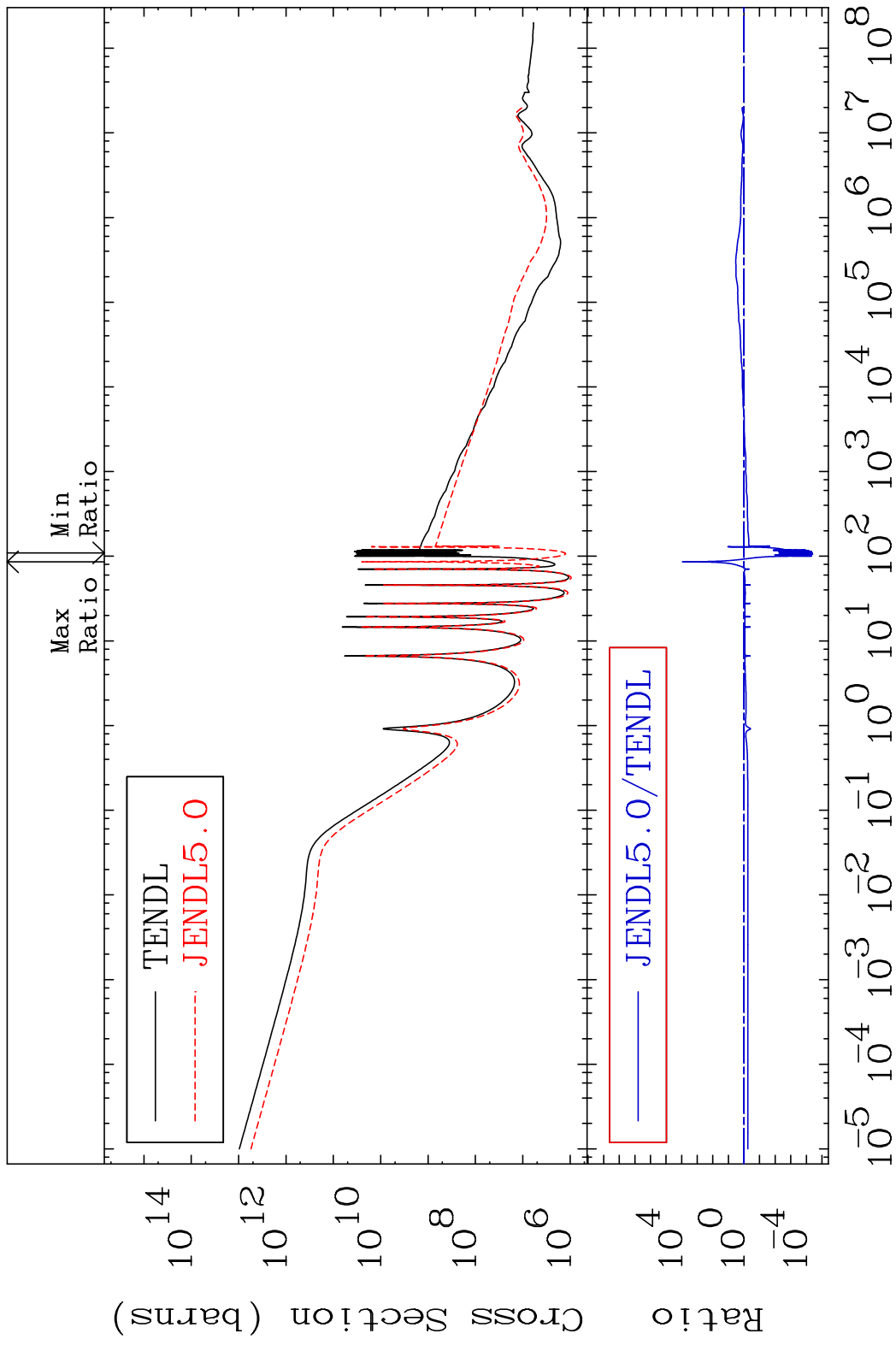


MAT 6428

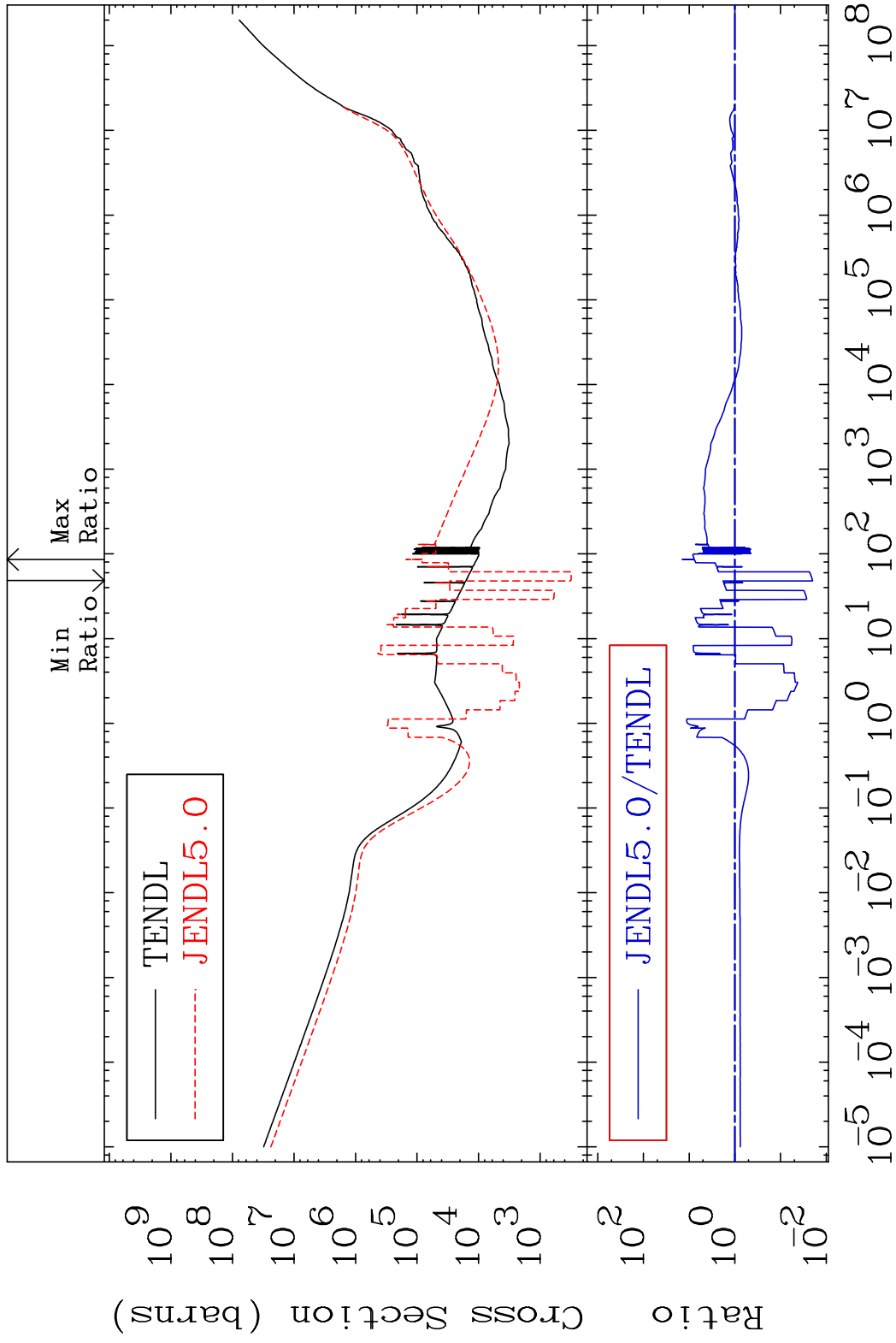
Kerma capture (mt102) 64-Gd-153
Cross Section -100.0 To 9999. %



MAT 6428 Total photon (eV-barns) 64-Gd-153
 Cross Section -100.0 To 9999. %



MAT 6428 Total kinematic kerma (high limit) 64-Gd-153
 Cross Section -98.01 To 1308. %

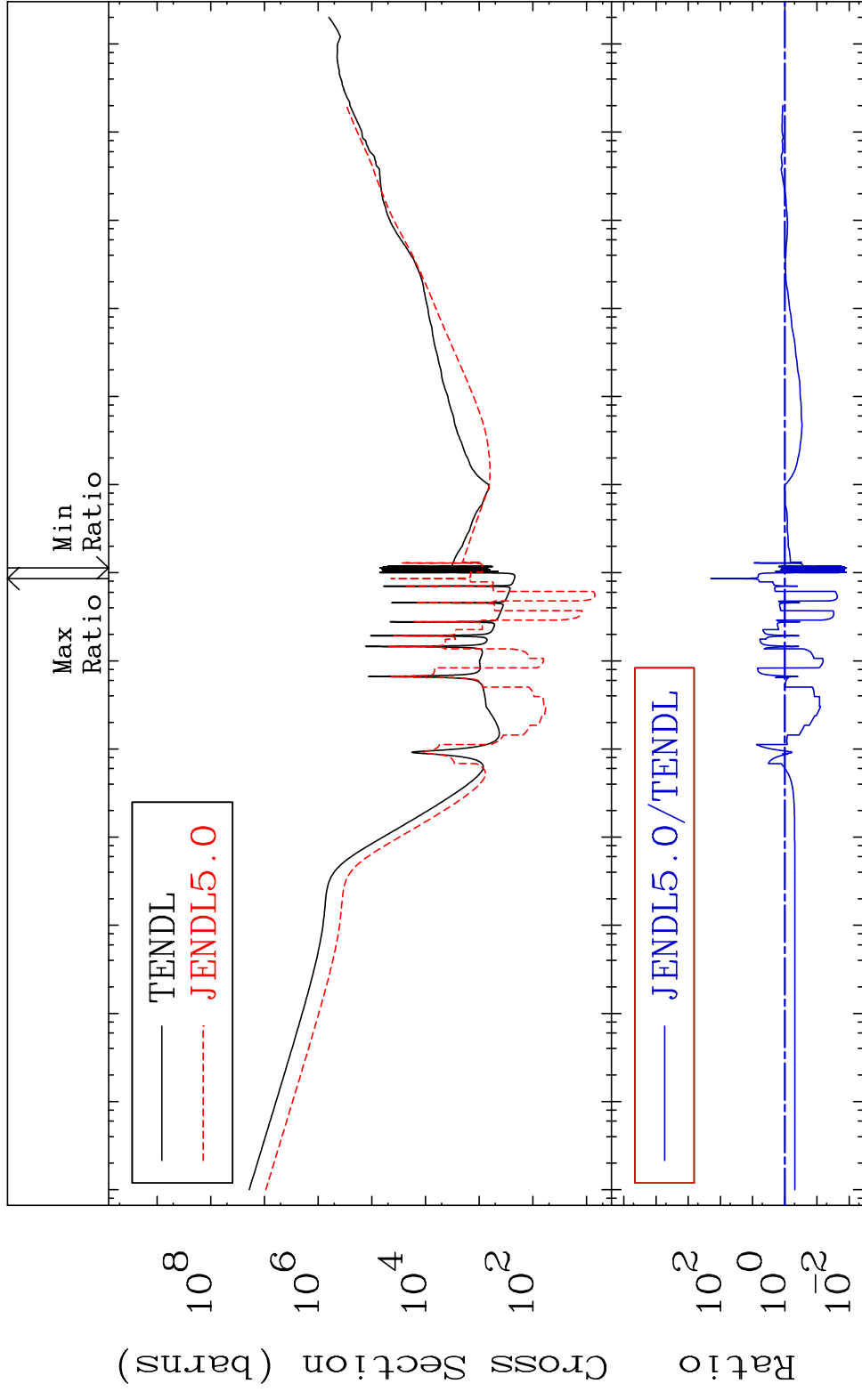


MAT 6428

Dpa total (eV-barns)

64-Gd-153

Cross Section -98.77 To 9999. %



60

Incident Energy (eV)

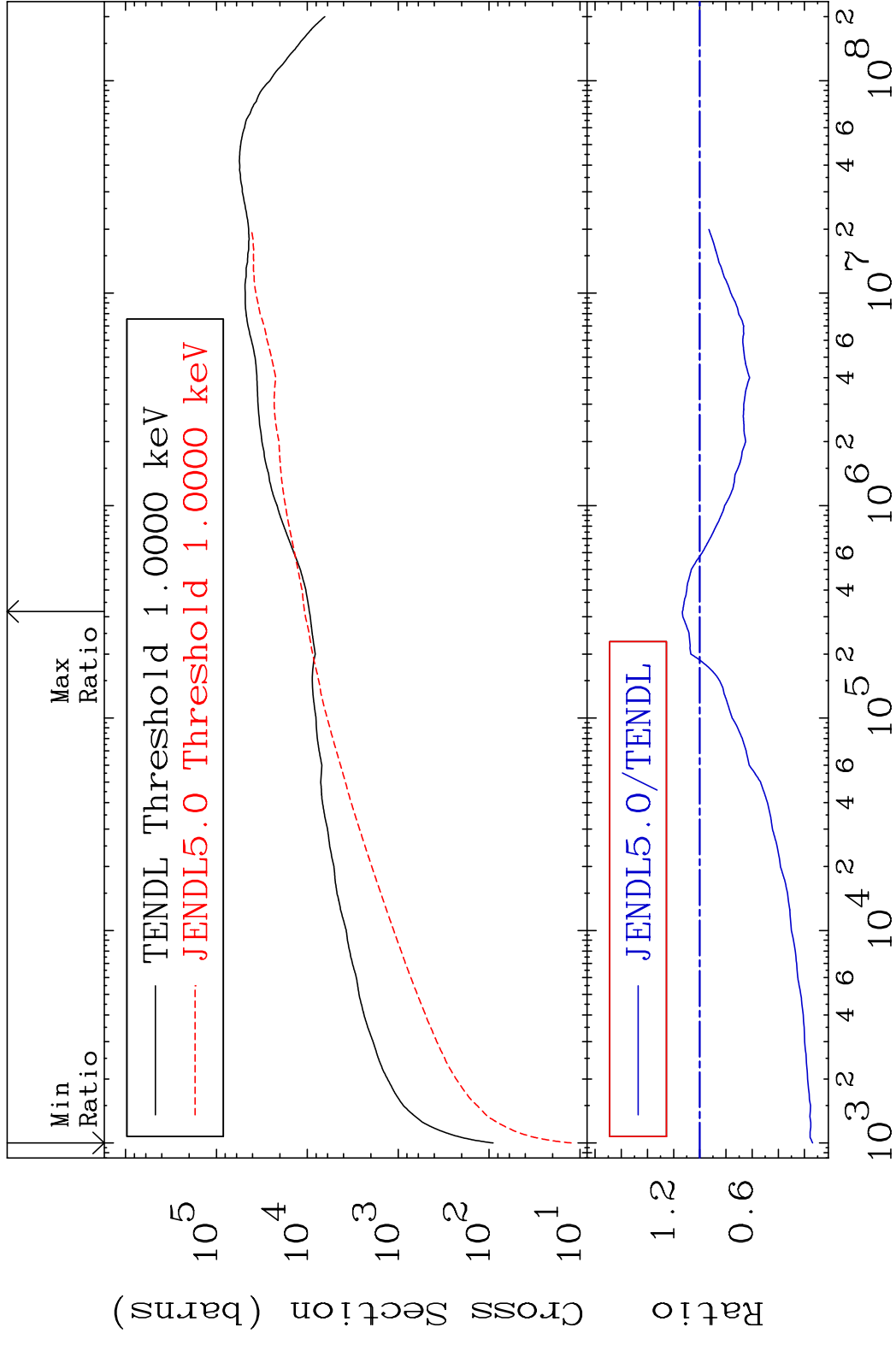
64-Gd-153

MAT 6428

Dpa elastic (mt2)

64-Gd-153

Cross Section -86.16 To 13.34 %

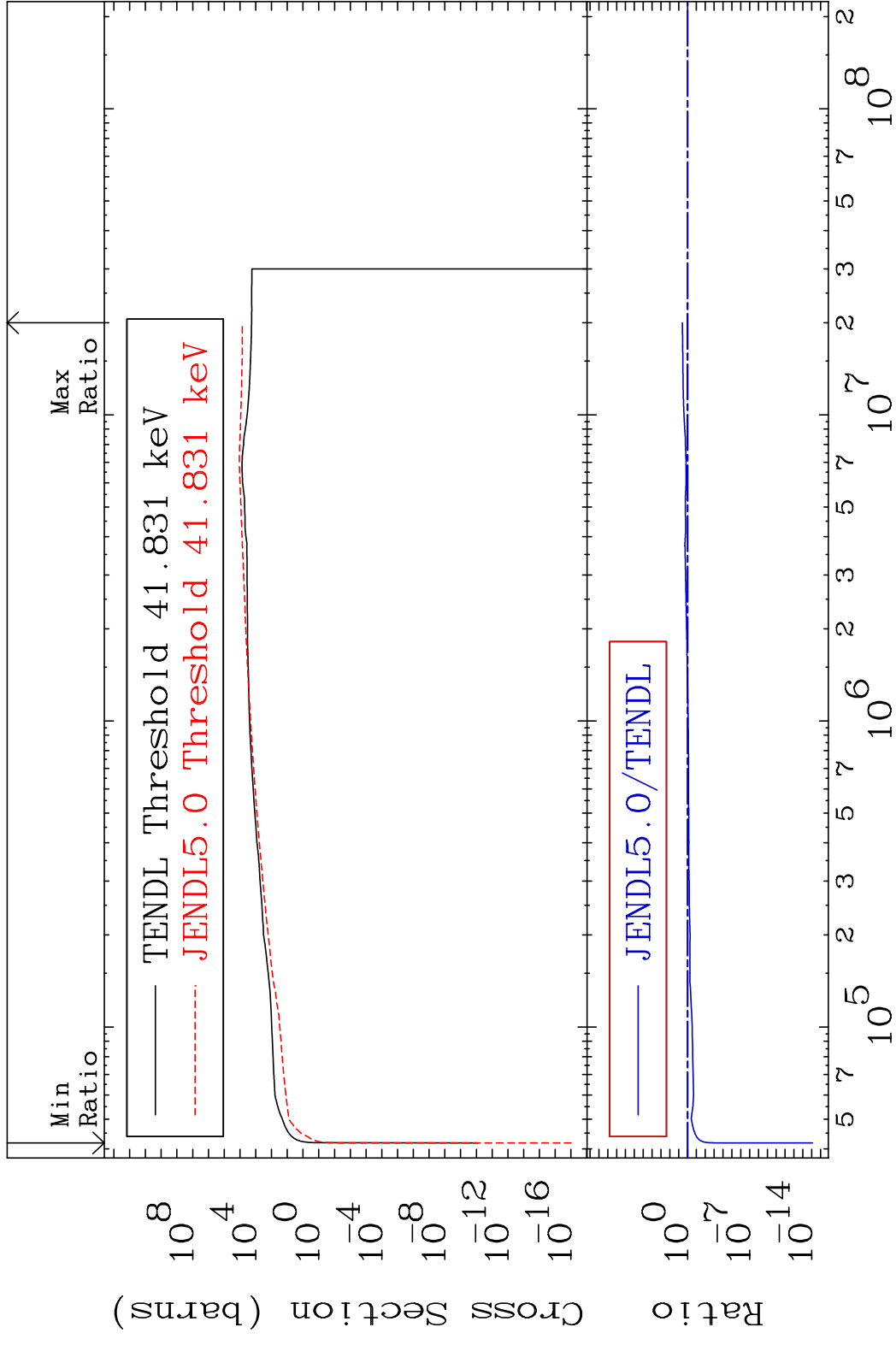


61

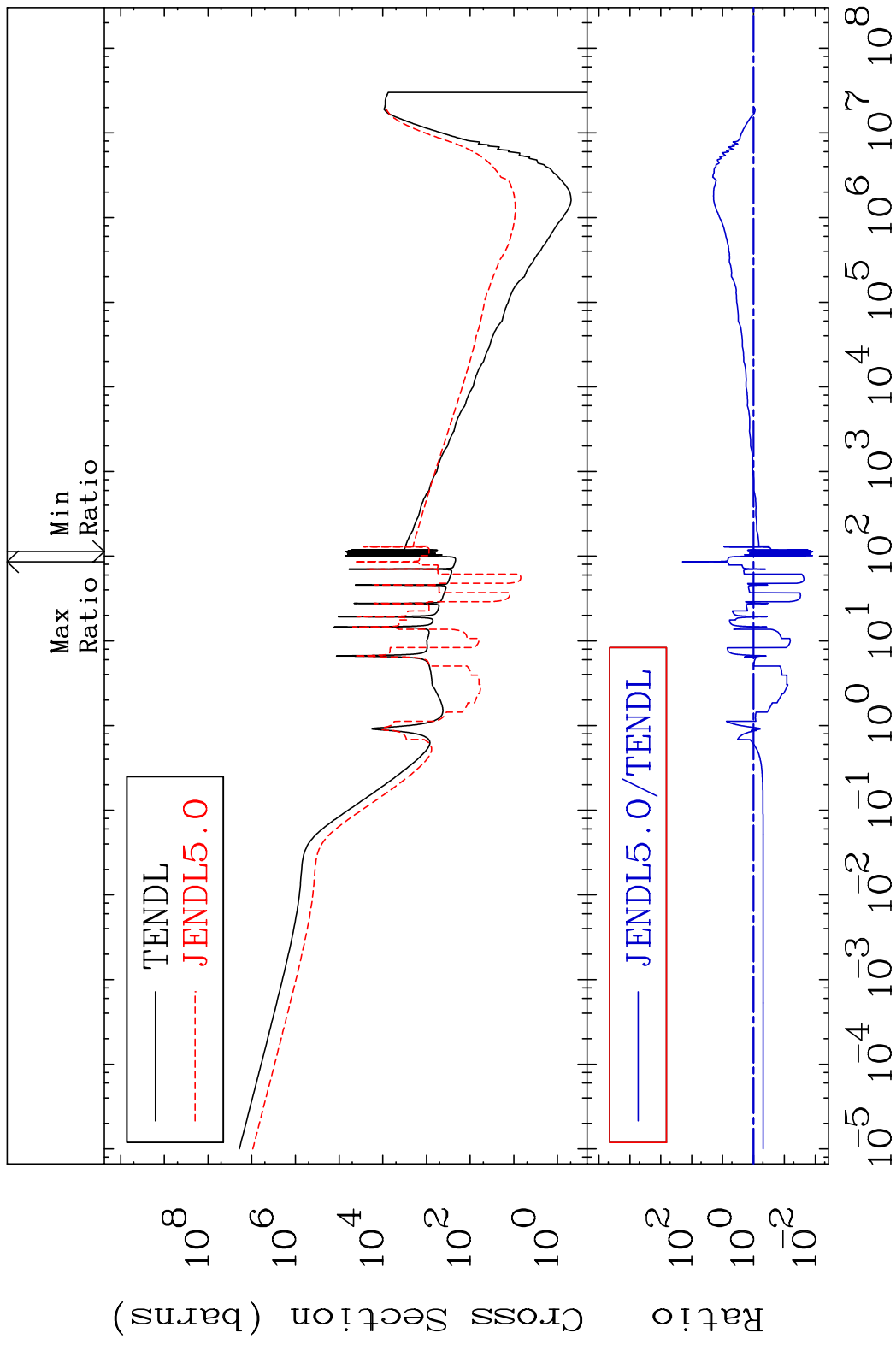
Incident Energy (eV)

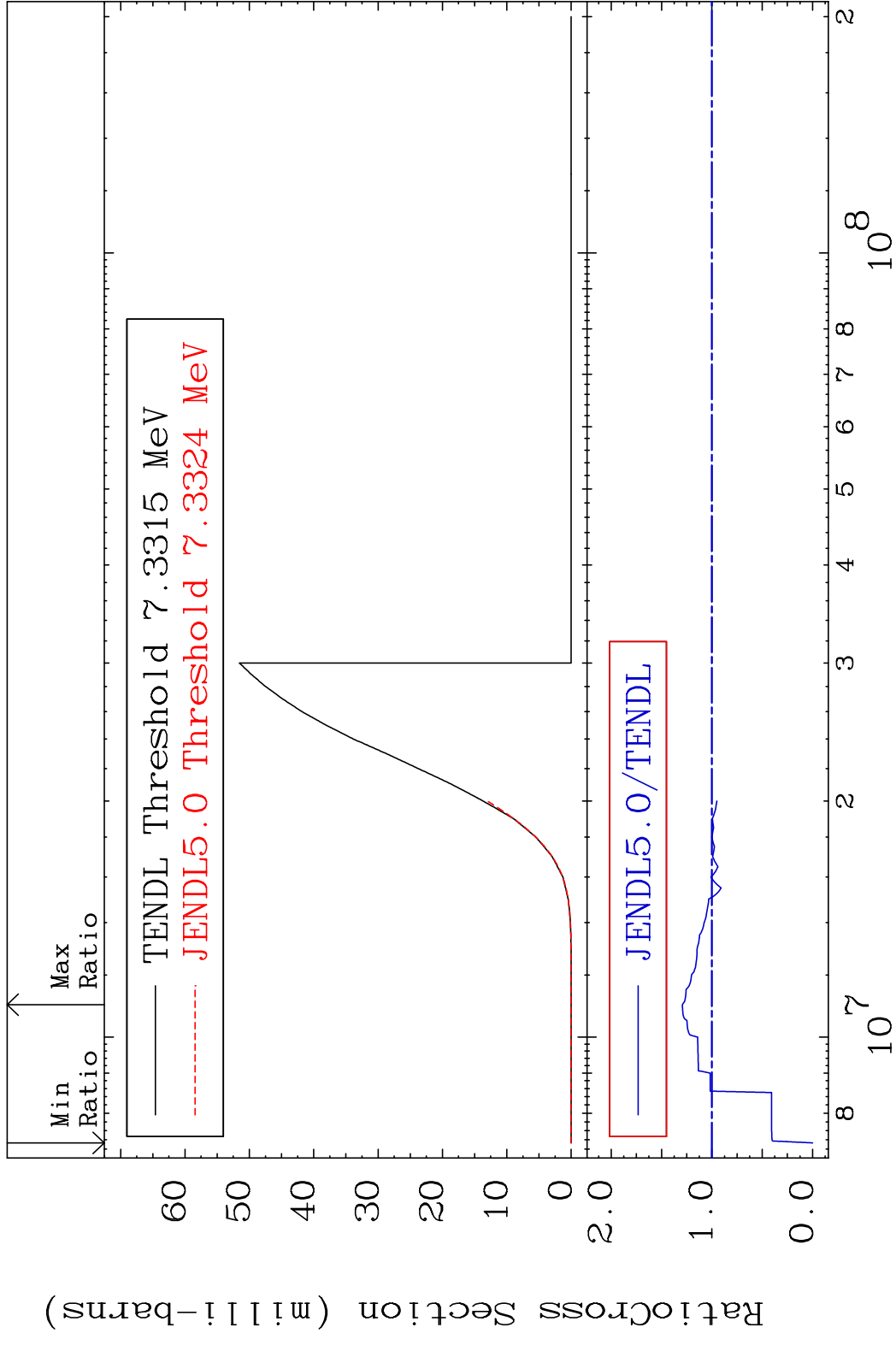
64-Gd-153

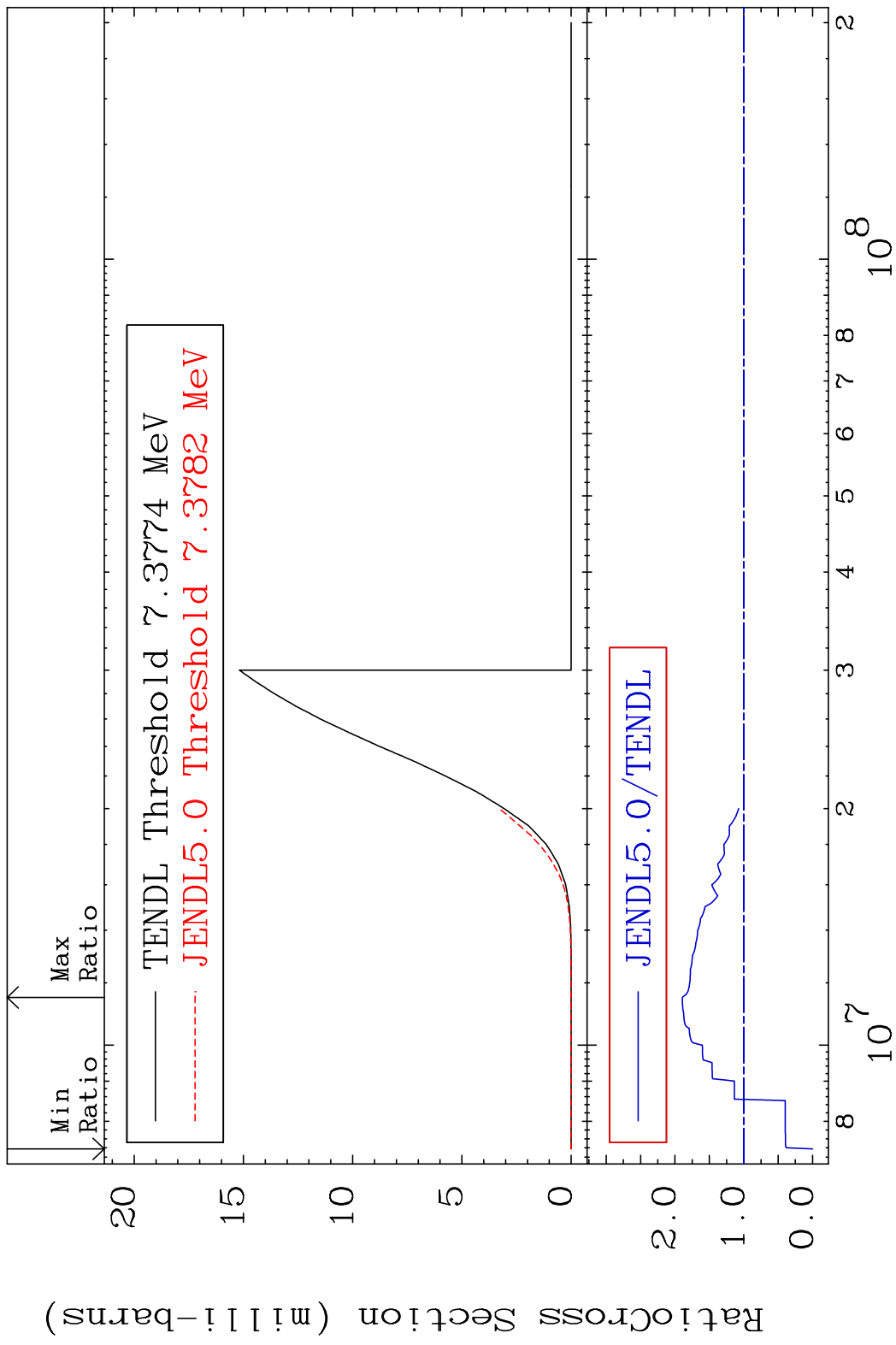
MAT 6428 Dpa inelastic (mt51-91) 64-Gd-153
 Cross Section -100.0 To 284.3 %

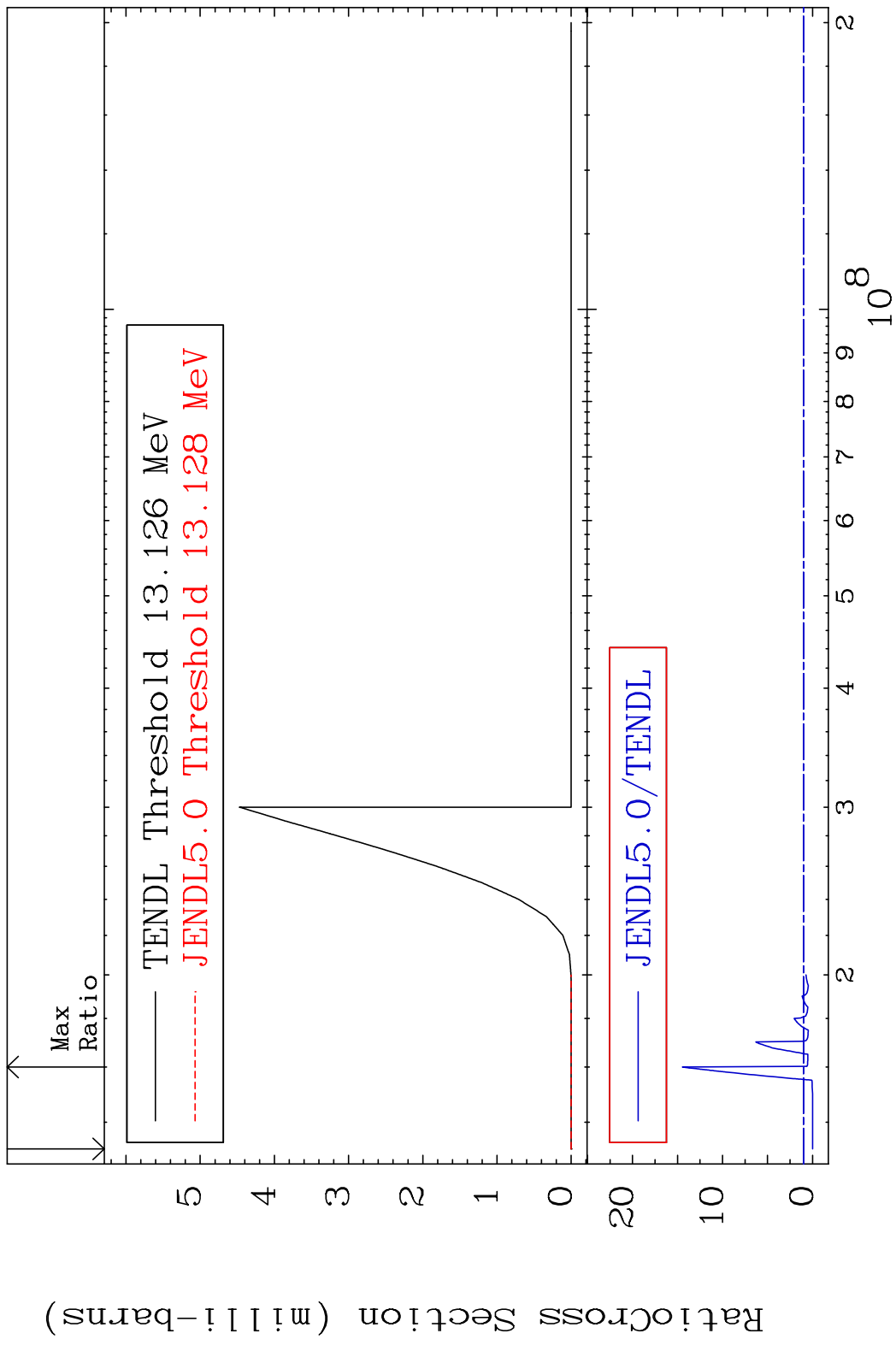


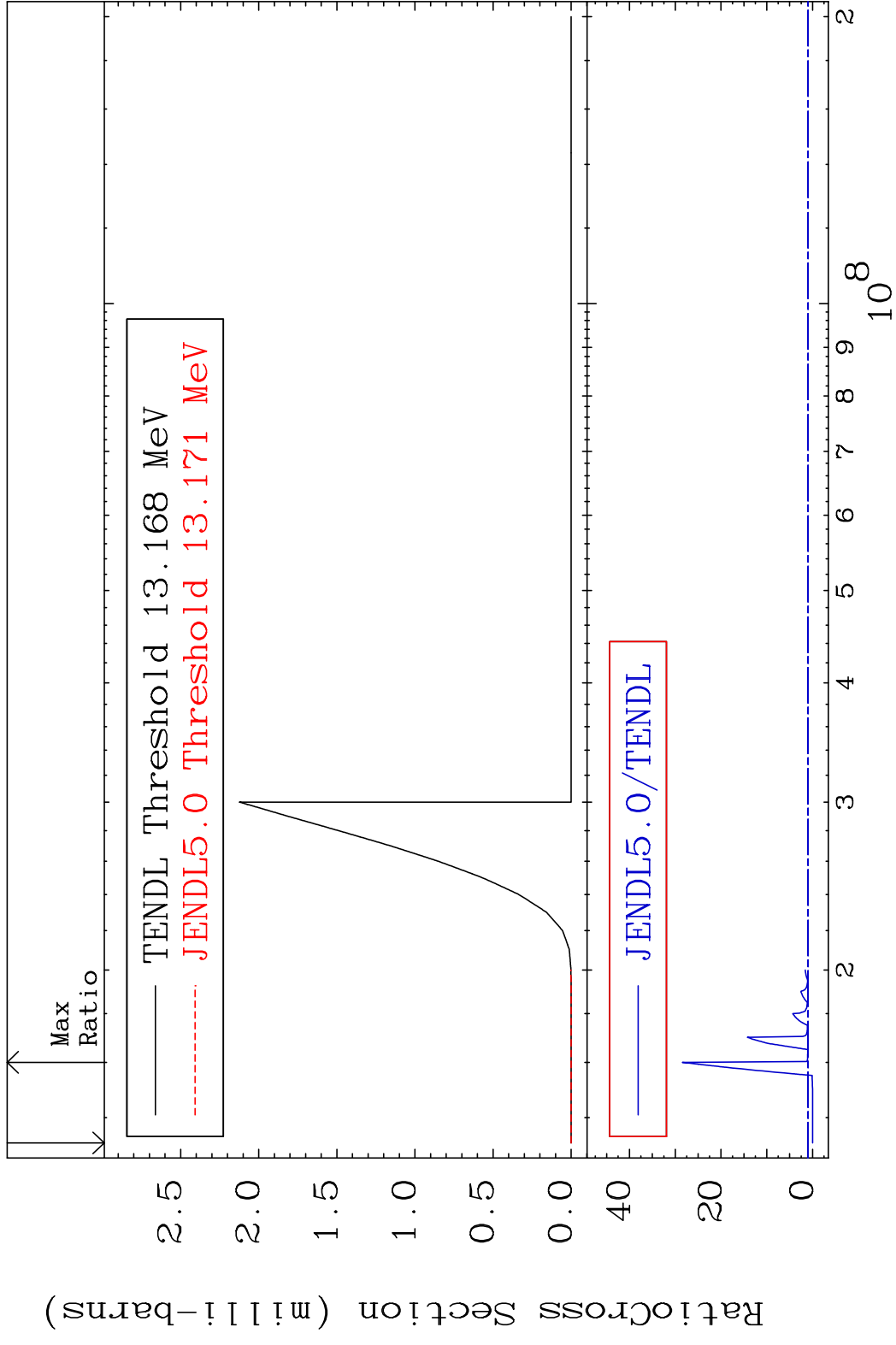
MAT 6428 Dpa disappearance (mt102 -120) 64-Gd-153
 Cross Section -98.77 To 9999. %

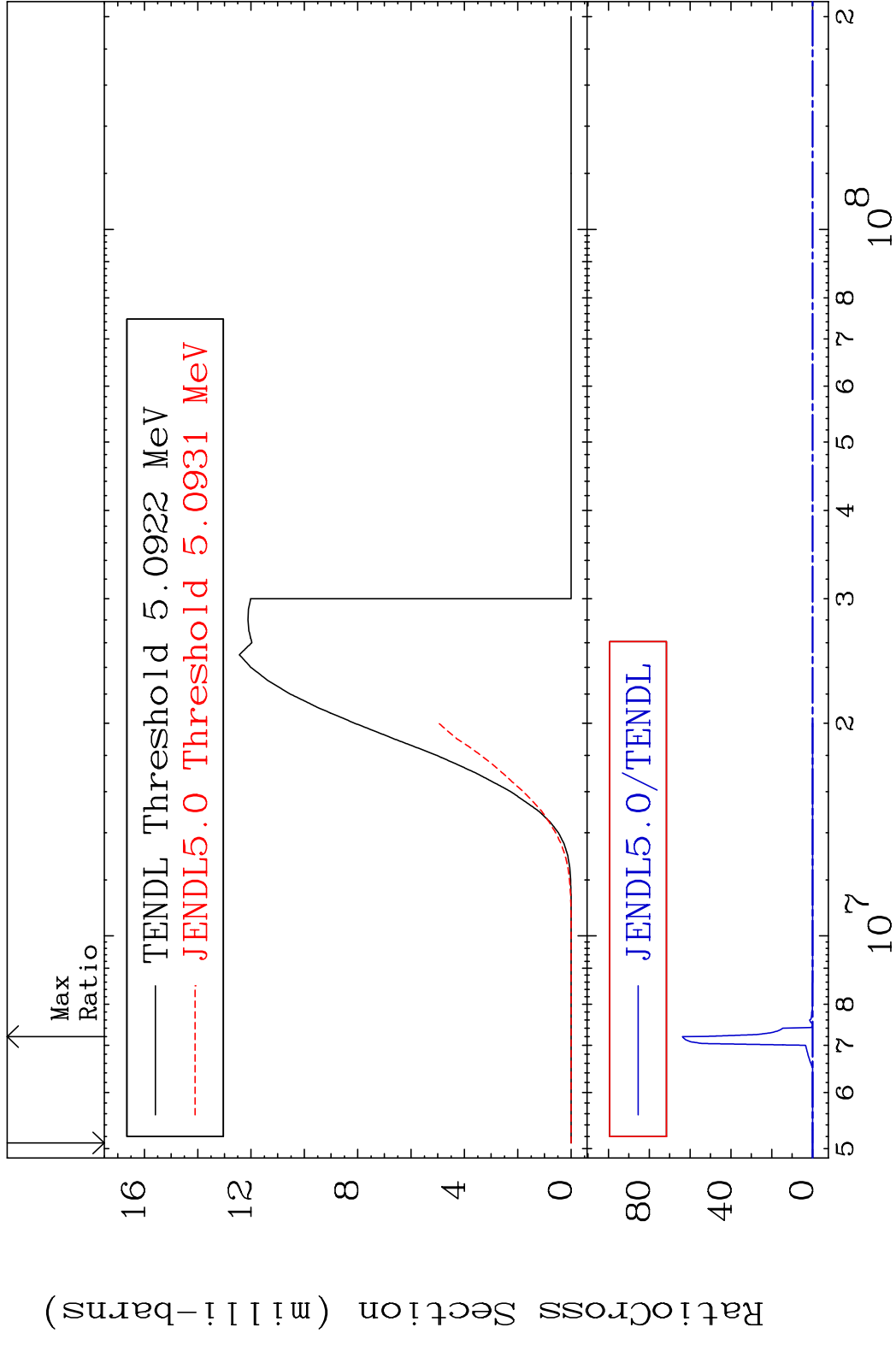


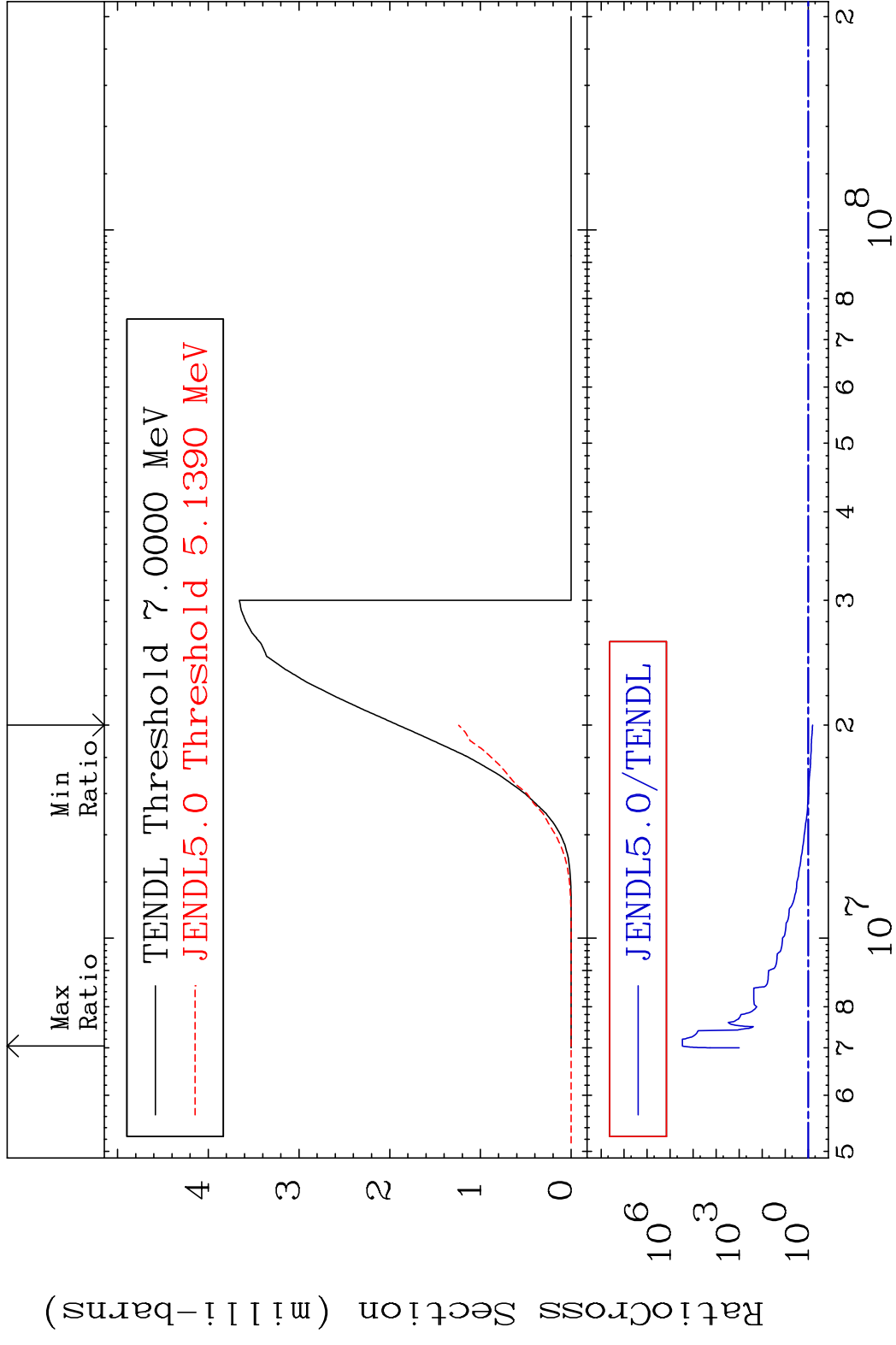




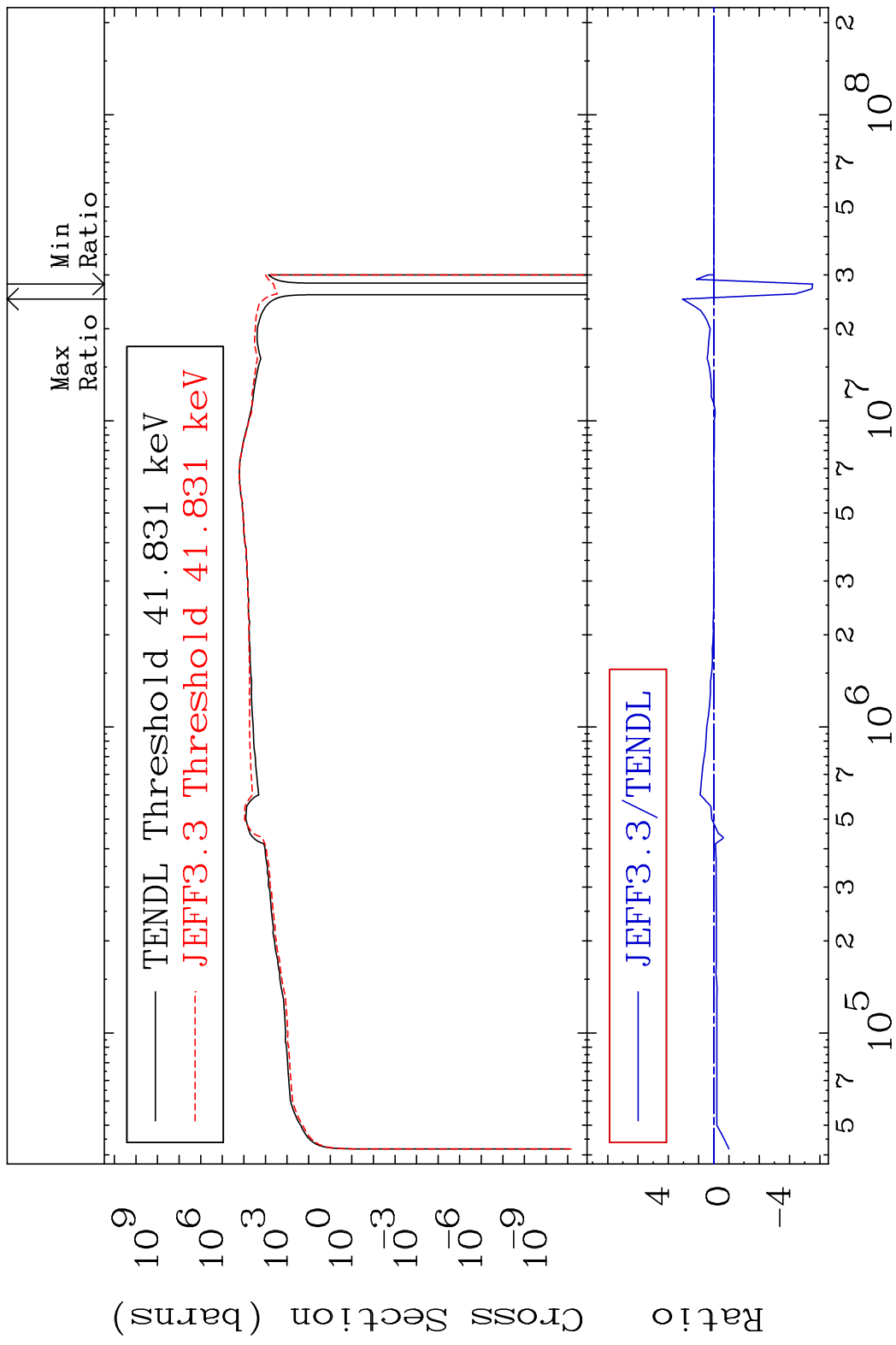






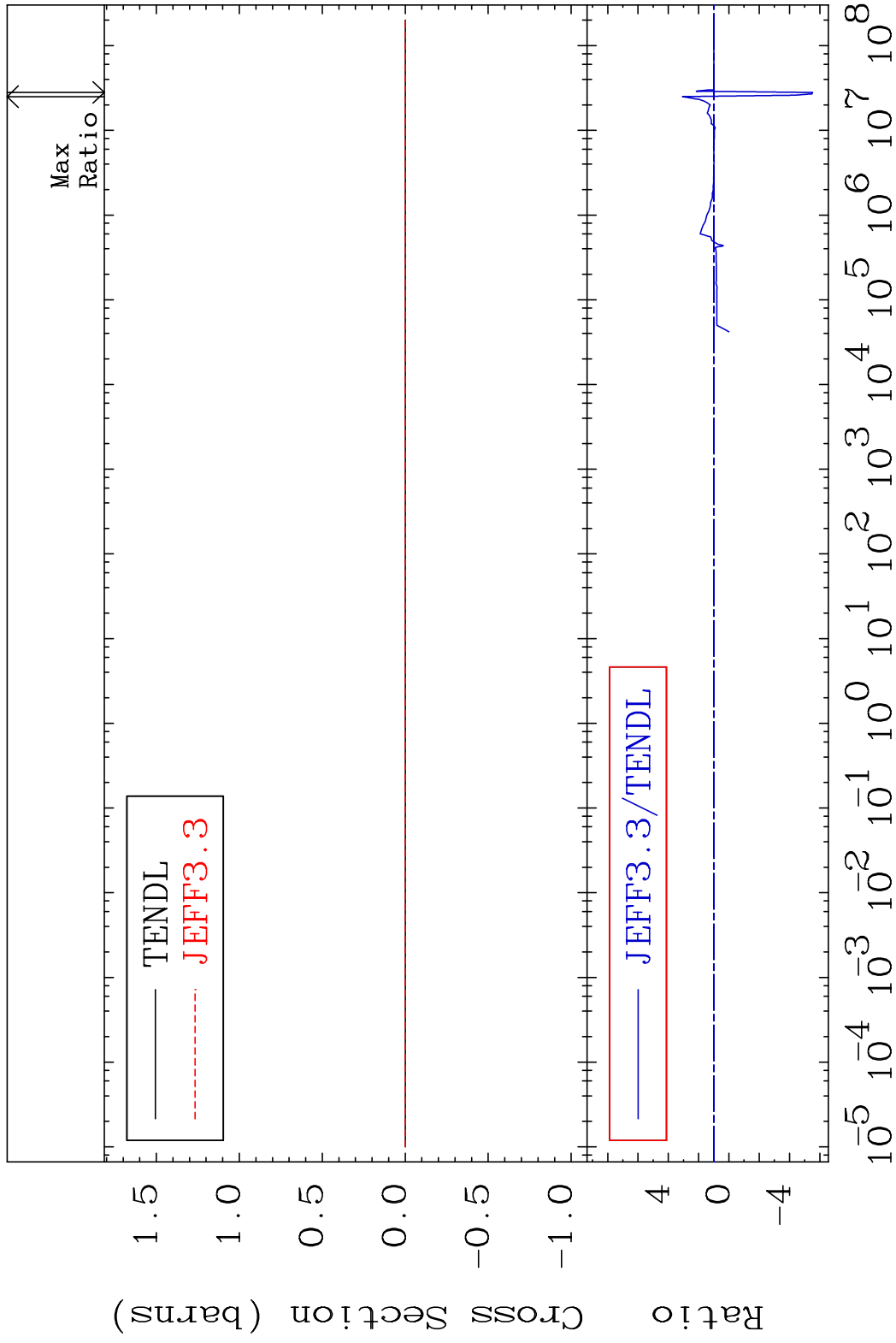


MAT 6428 Kerma inelastic (mt51-91) 64-Gd-153
 Cross Section -652.1 To 207.4 %



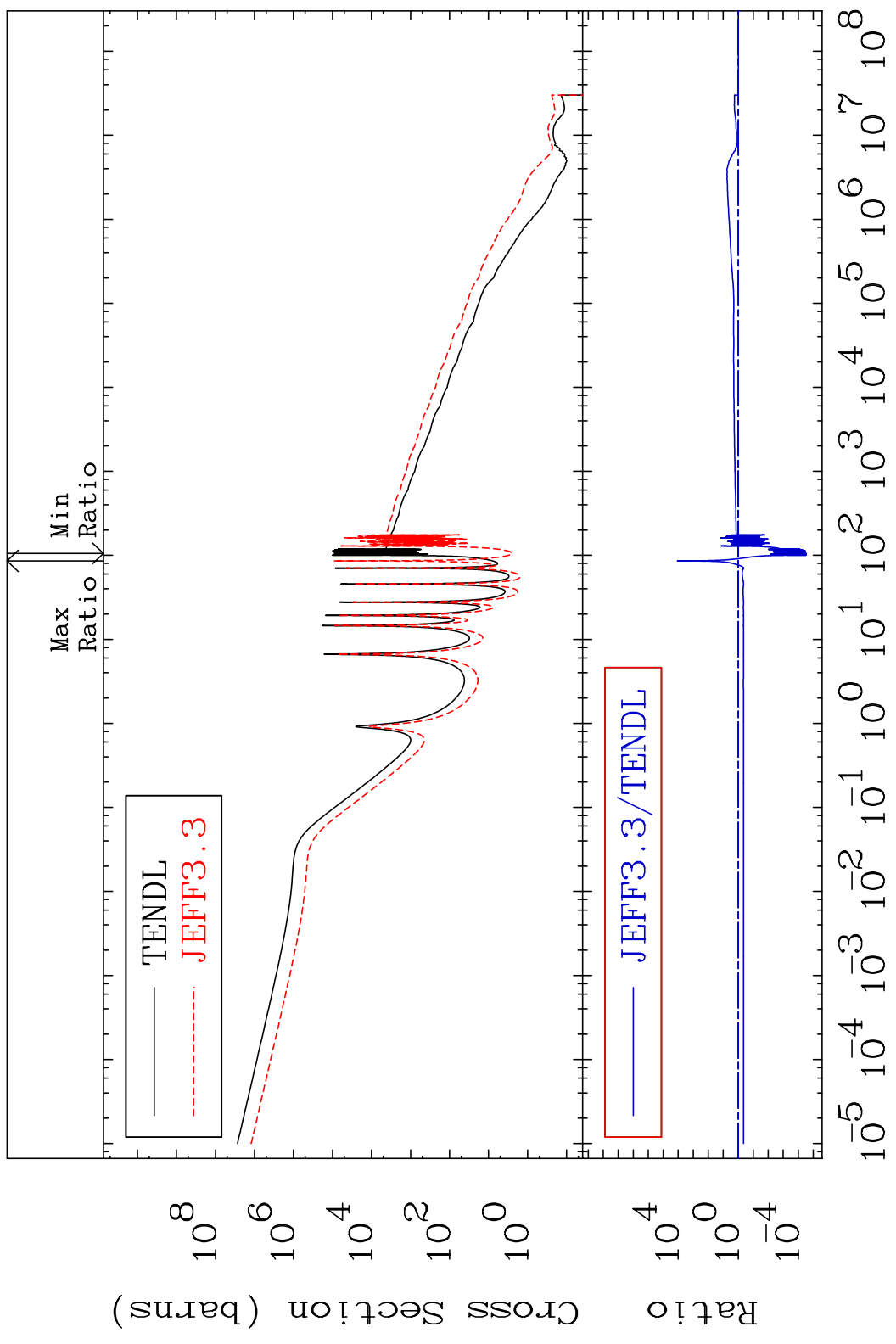
70 Incident Energy (eV) 64-Gd-153

MAT 6428 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-153
 Cross Section -652.1 To 207.4 %



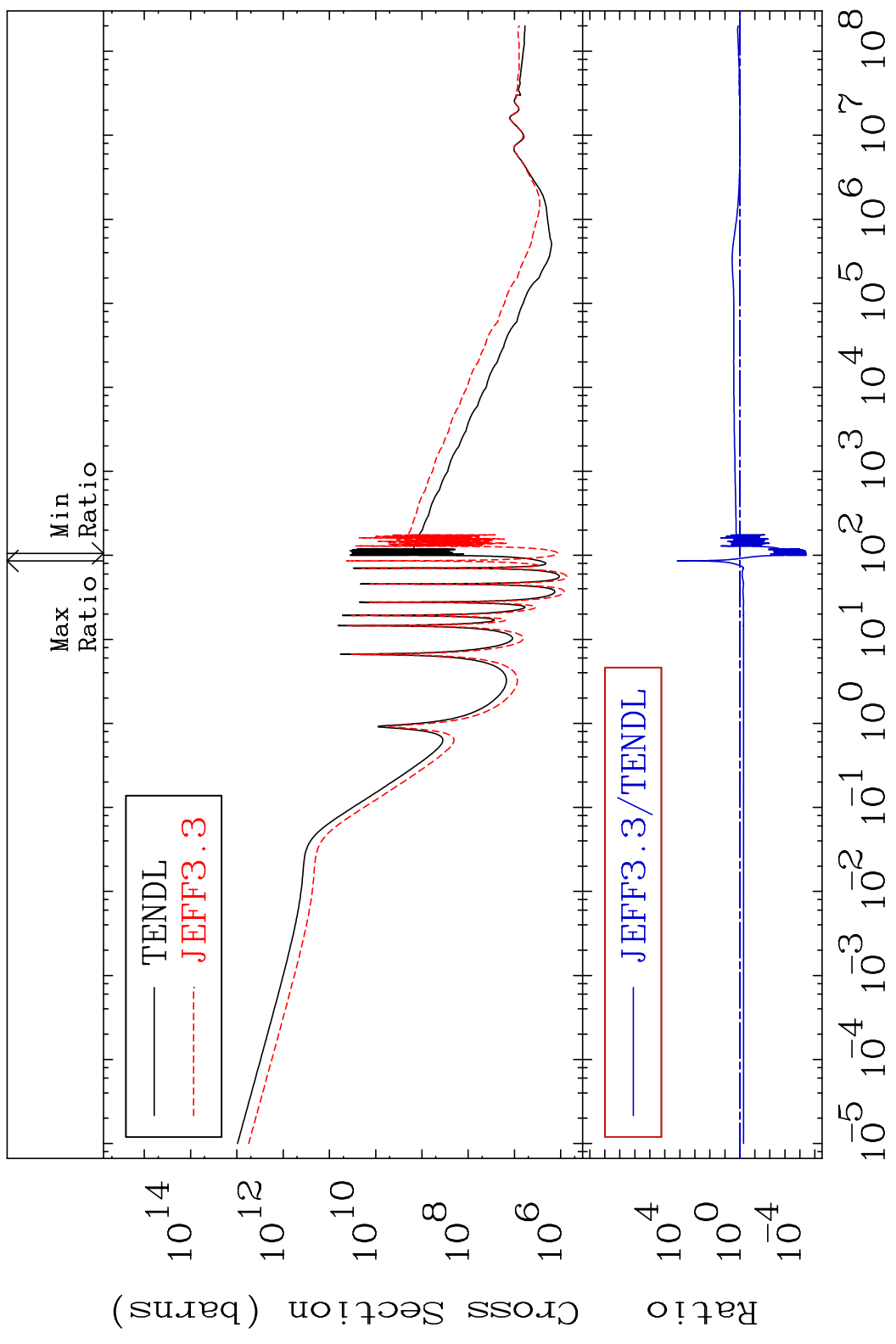
MAT 6428

Kerma capture (mt102) 64-Gd-153
Cross Section -100.0 To 9999. %



MAT 6428

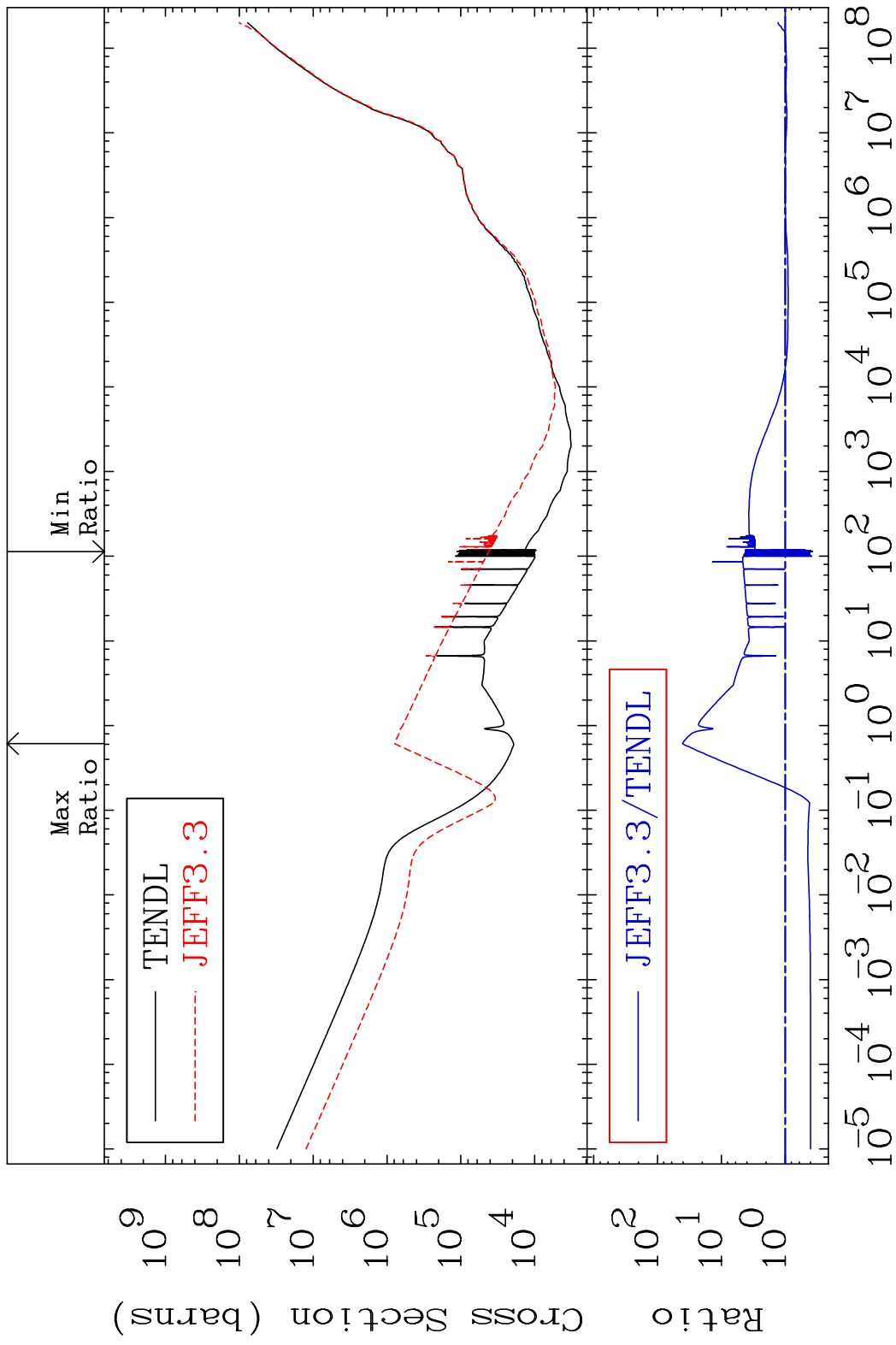
Total photon (eV-barns) 64-Gd-153
Cross Section -100.0 To 9999. %



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Incident Energy (eV) 64-Gd-153

MAT 6428 Total kinematic kerma (high limit) 64-Gd-153
 Cross Section -62.64 To 3996. %

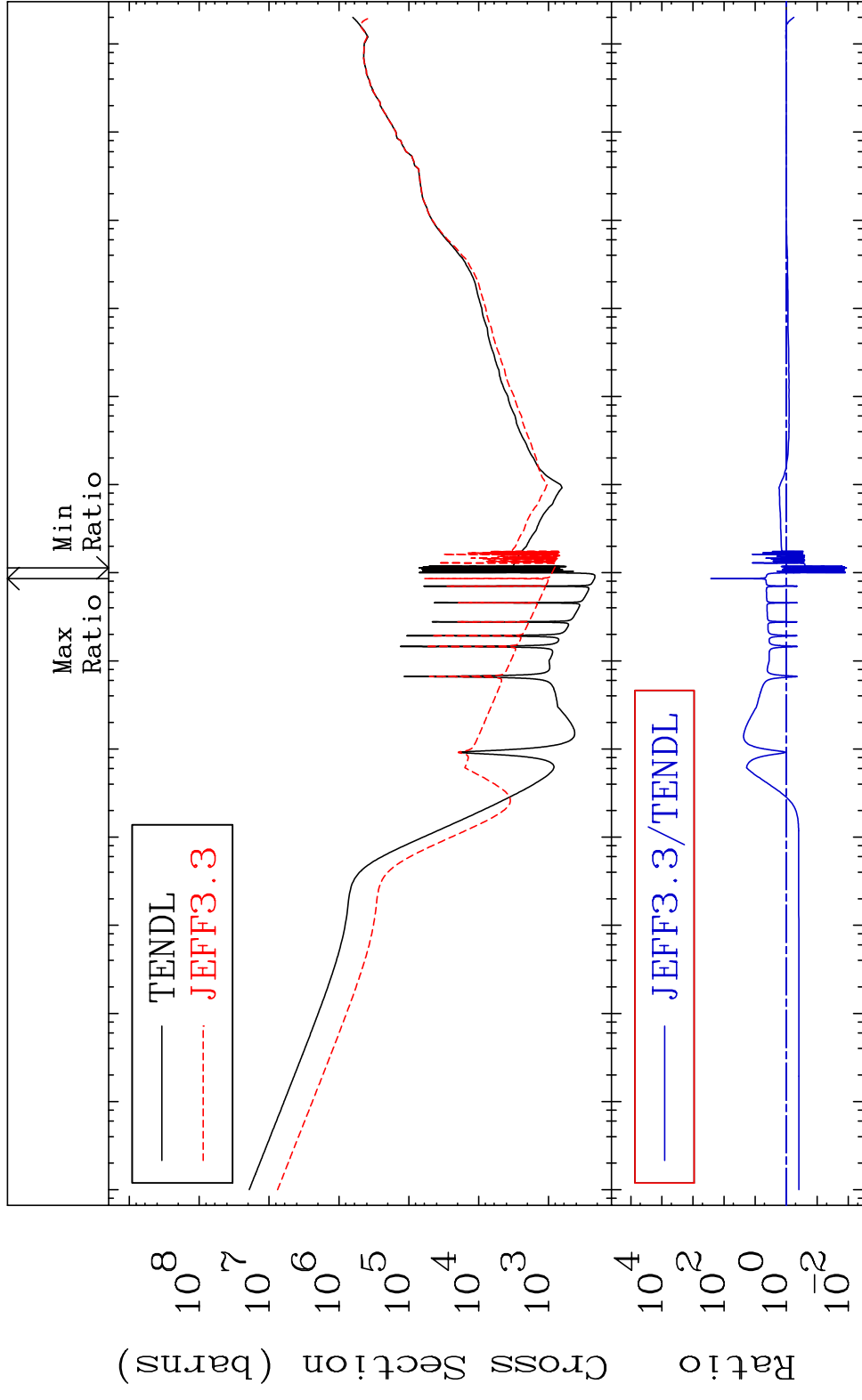


MAT 6428

Dpa total (eV-barns)

64-Gd-153

Cross Section -98.84 To 9999. %



75

Incident Energy (eV)

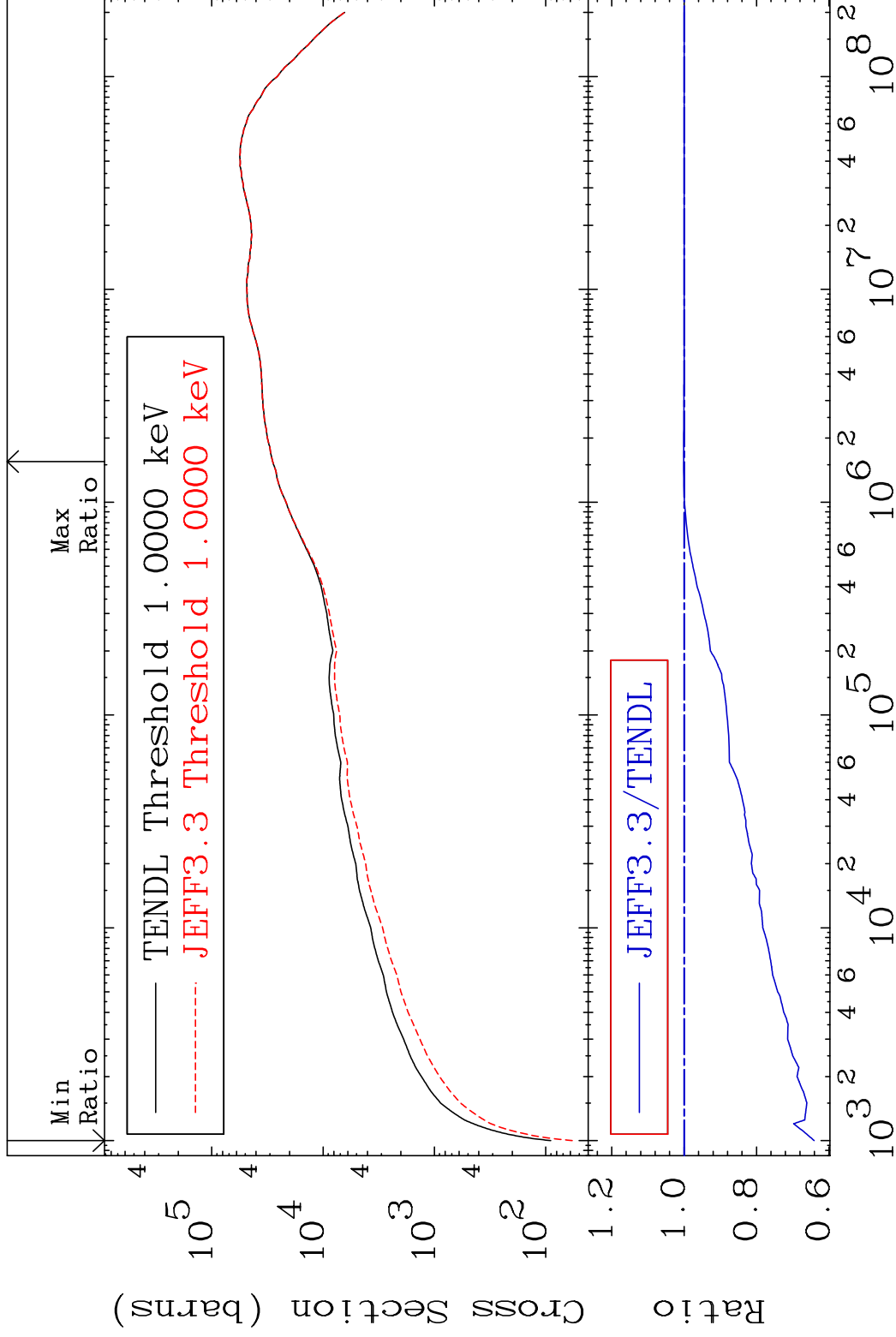
64-Gd-153

MAT 6428

Dpa elastic (mt2)

64-Gd-153

Cross Section -35.91 To 0.123 %

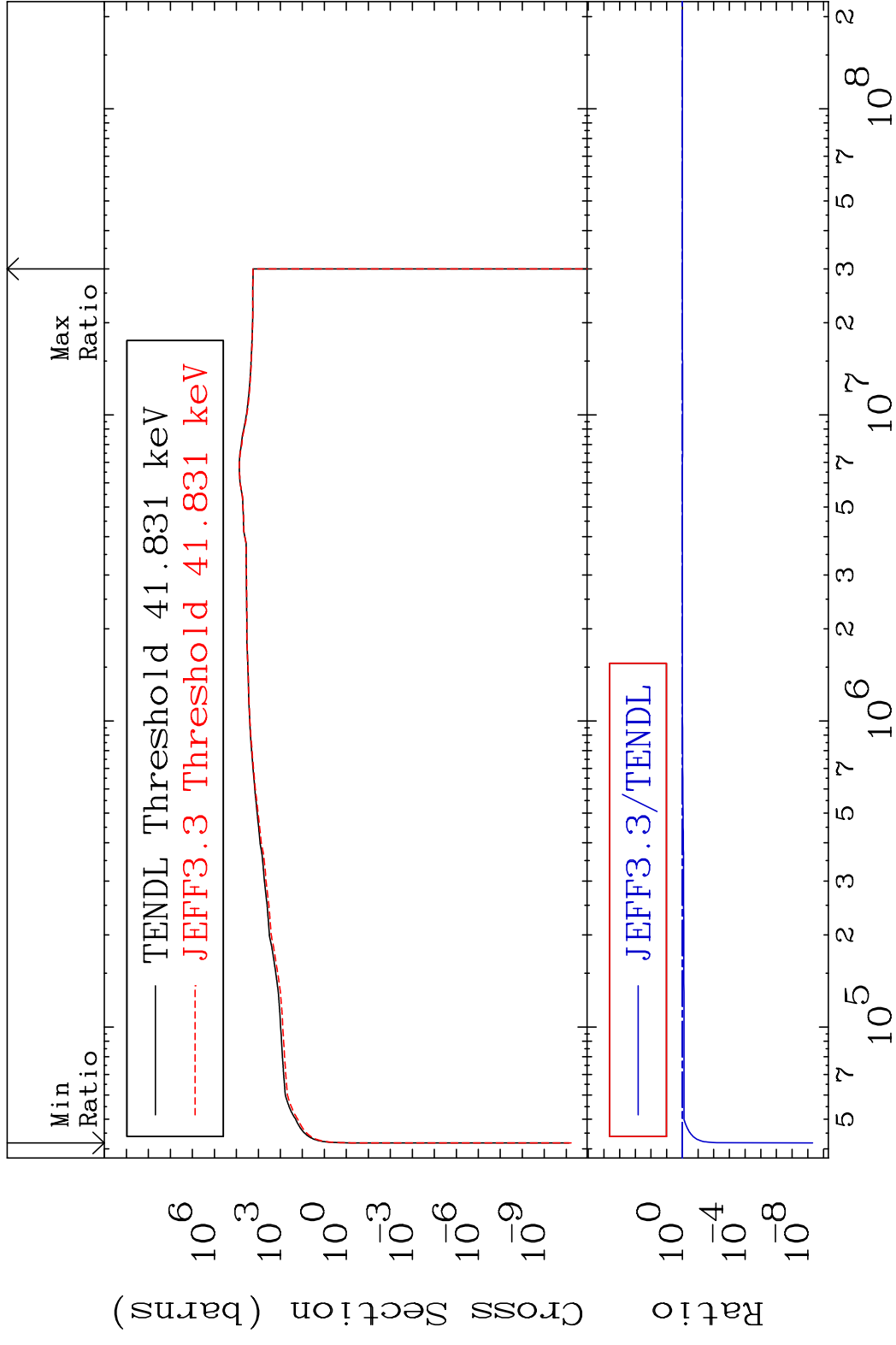


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Incident Energy (eV)

64-Gd-153

MAT 6428 Dpa inelastic (mt51-91) 64-Gd-153
 Cross Section -100.0 To 0.098 %



MAT 6428 Dpa disappearance (mt102 -120) 64-Gd-153
 Cross Section -98.84 To 9999. %

