

Program Complot
(Version 2021-1)

by

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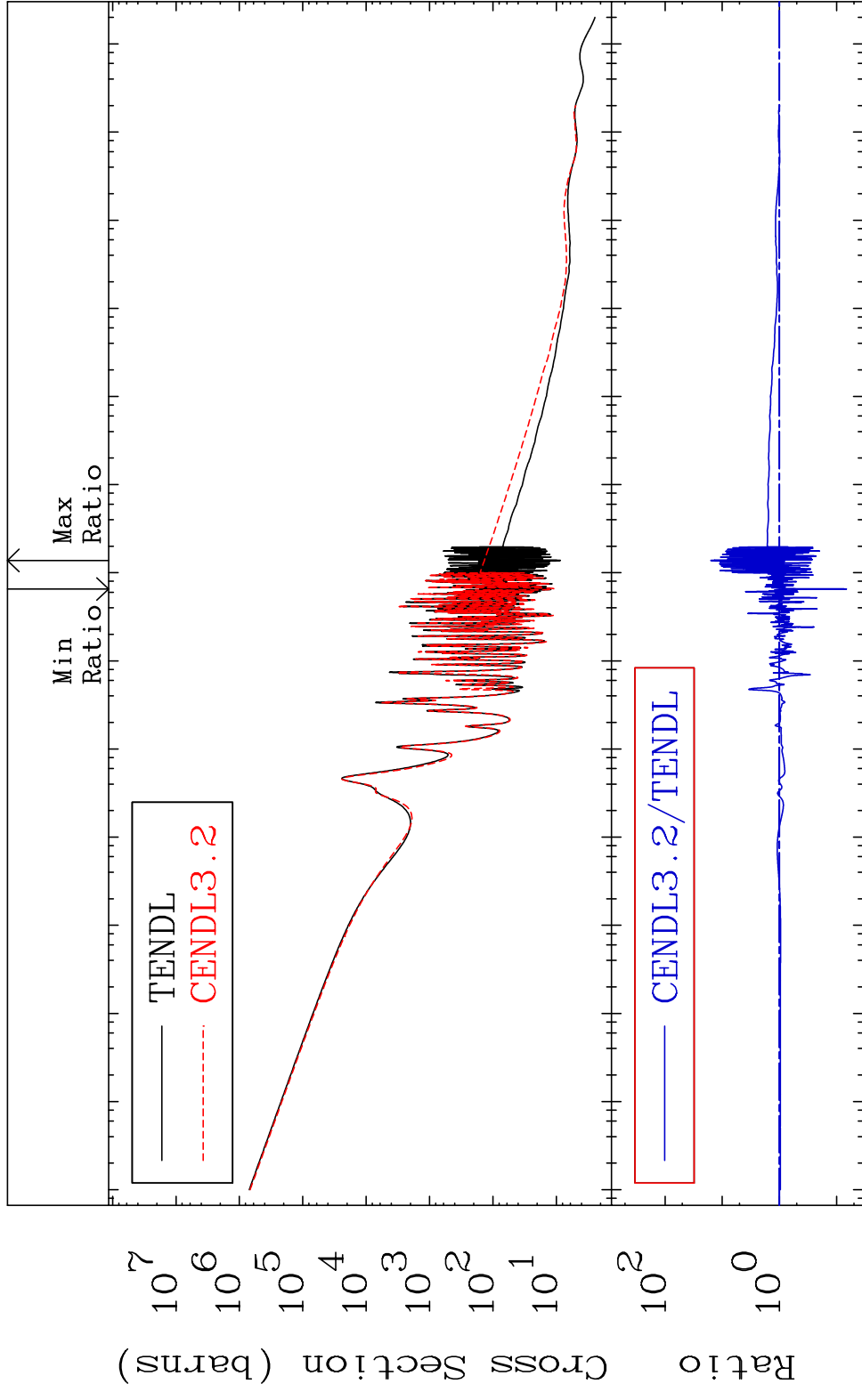
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6325

Total Cross Section -93.23 To 1490. %
63-Eu-151



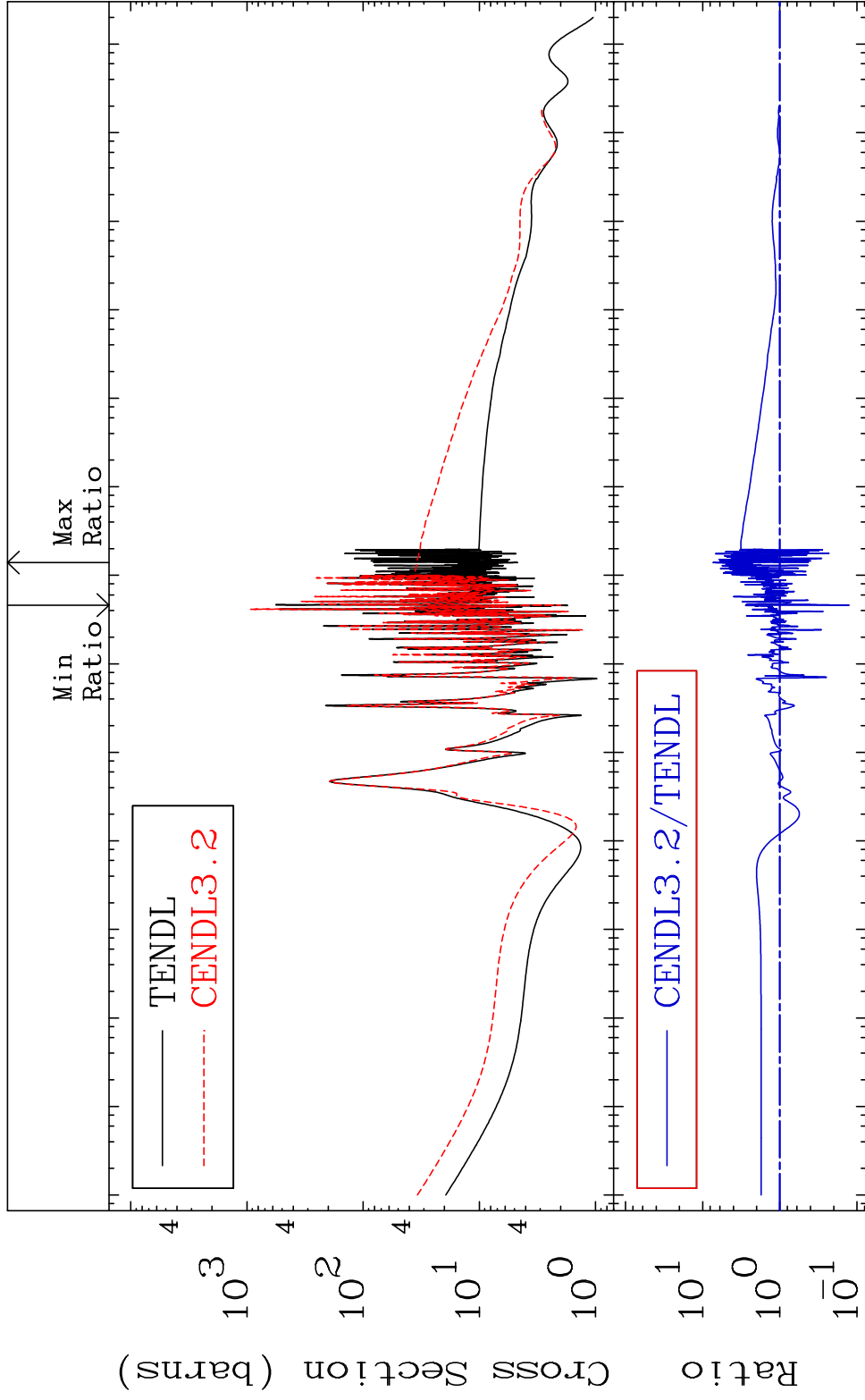
1 Incident Energy (eV) 63-Eu-151

MAT 6325

Elastic

63-Eu-151

Cross Section -87.41 To 630.9 %



2

Incident Energy (eV)

63-Eu-151

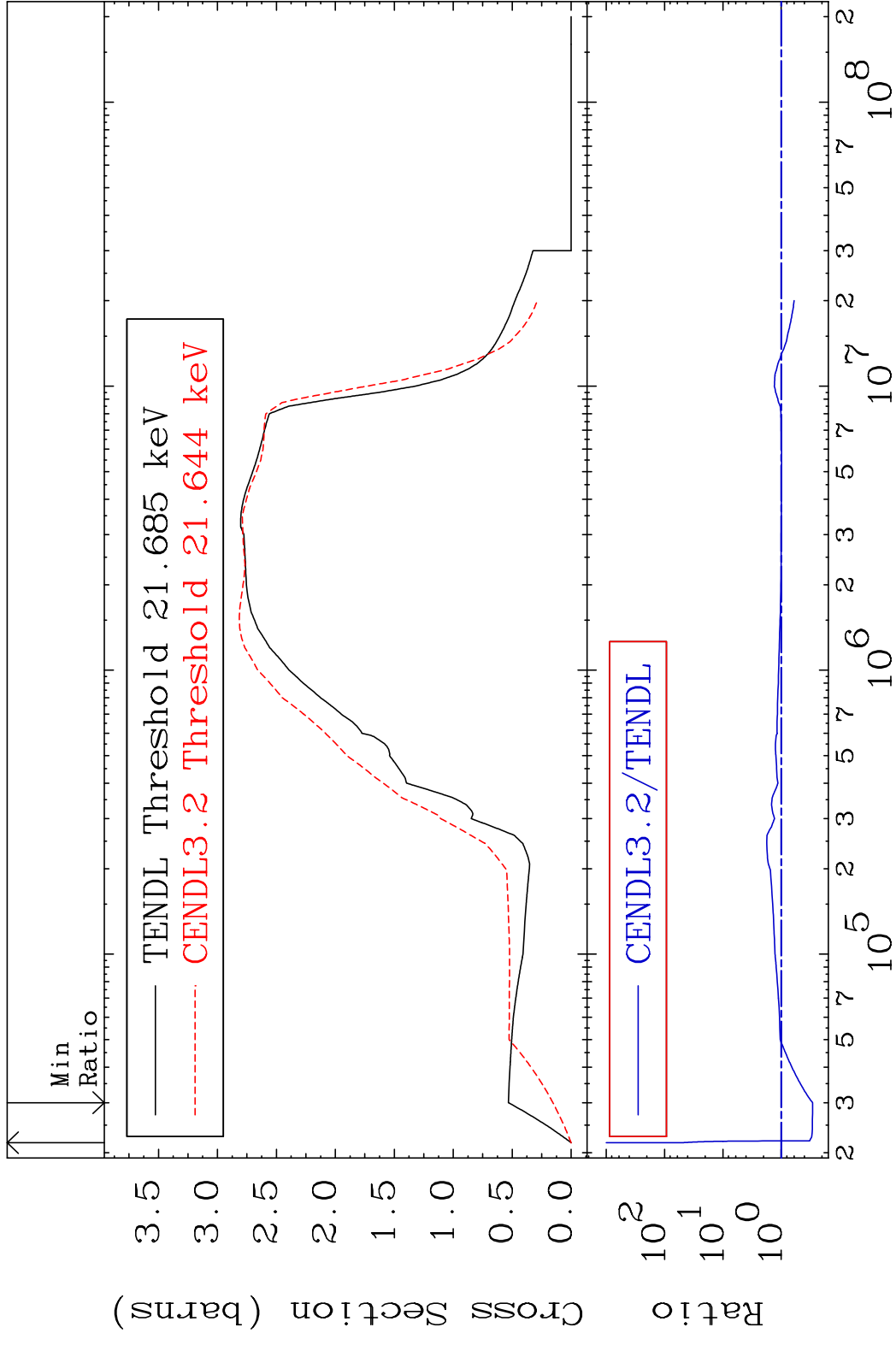
MAT 6325

Inelastic

63-Eu-151

Cross Section

-70.91 To 4845. %



3

Incident Energy (eV)

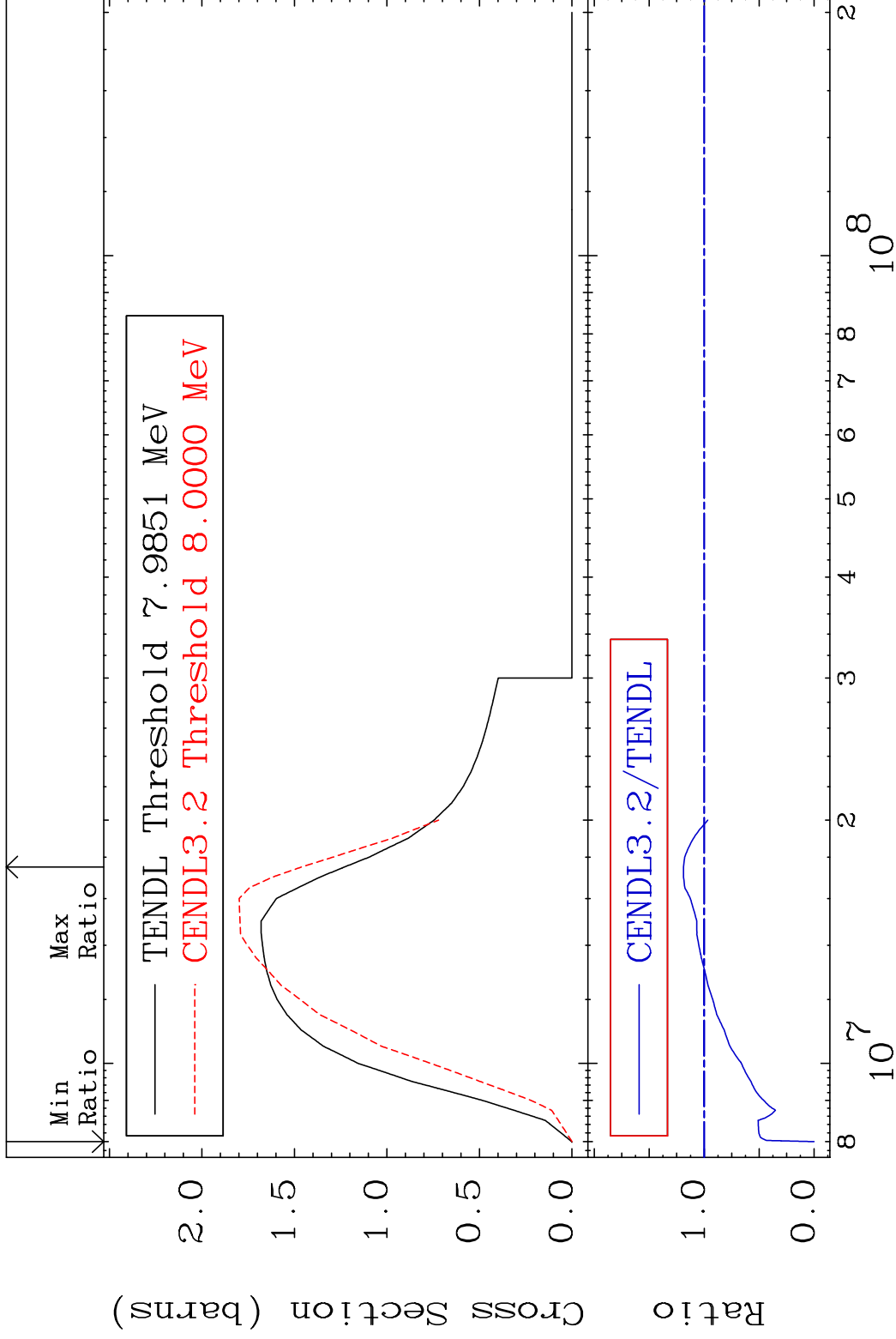
63-Eu-151

MAT 6325

(n,2n)

63-Eu-151

Cross Section -100.0 To 18.89 %



4

Incident Energy (eV)

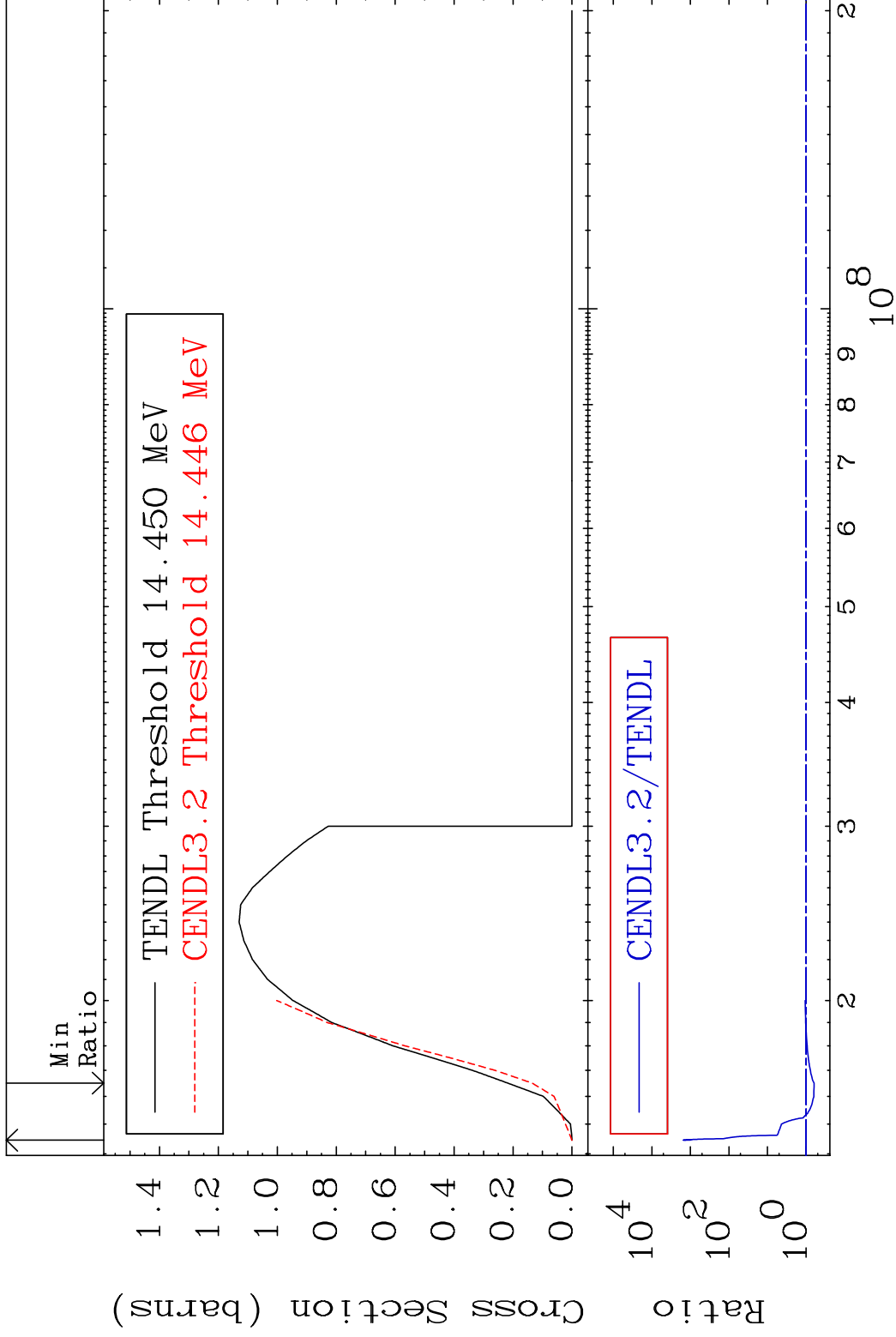
63-Eu-151

MAT 6325

(n,3n)

63-Eu-151

Cross Section -38.01 To 9999. %



5

Incident Energy (eV)

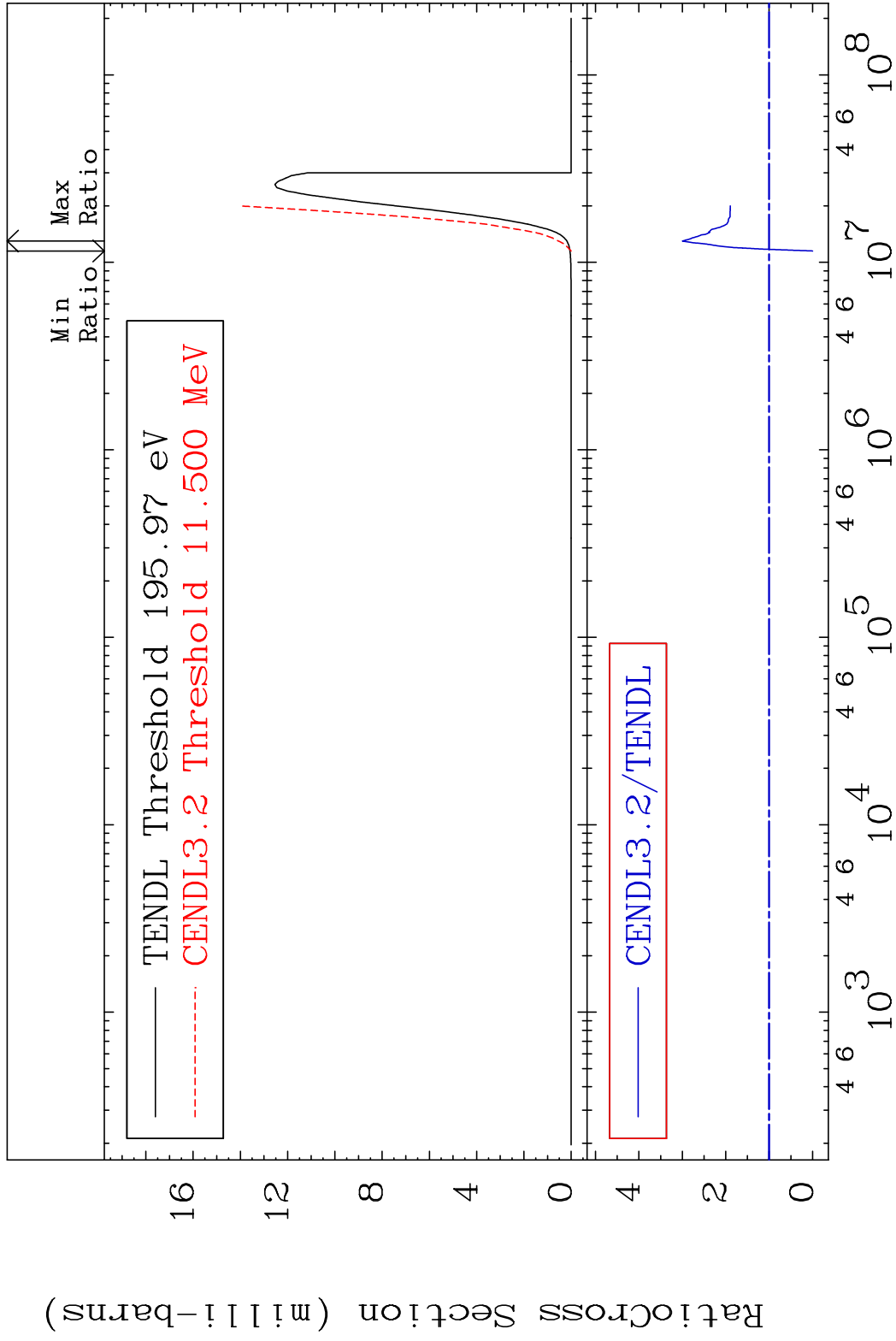
63-Eu-151

MAT 6325

(n, n') α

63-Eu-151

Cross Section -100.0 To 199.9 %



6

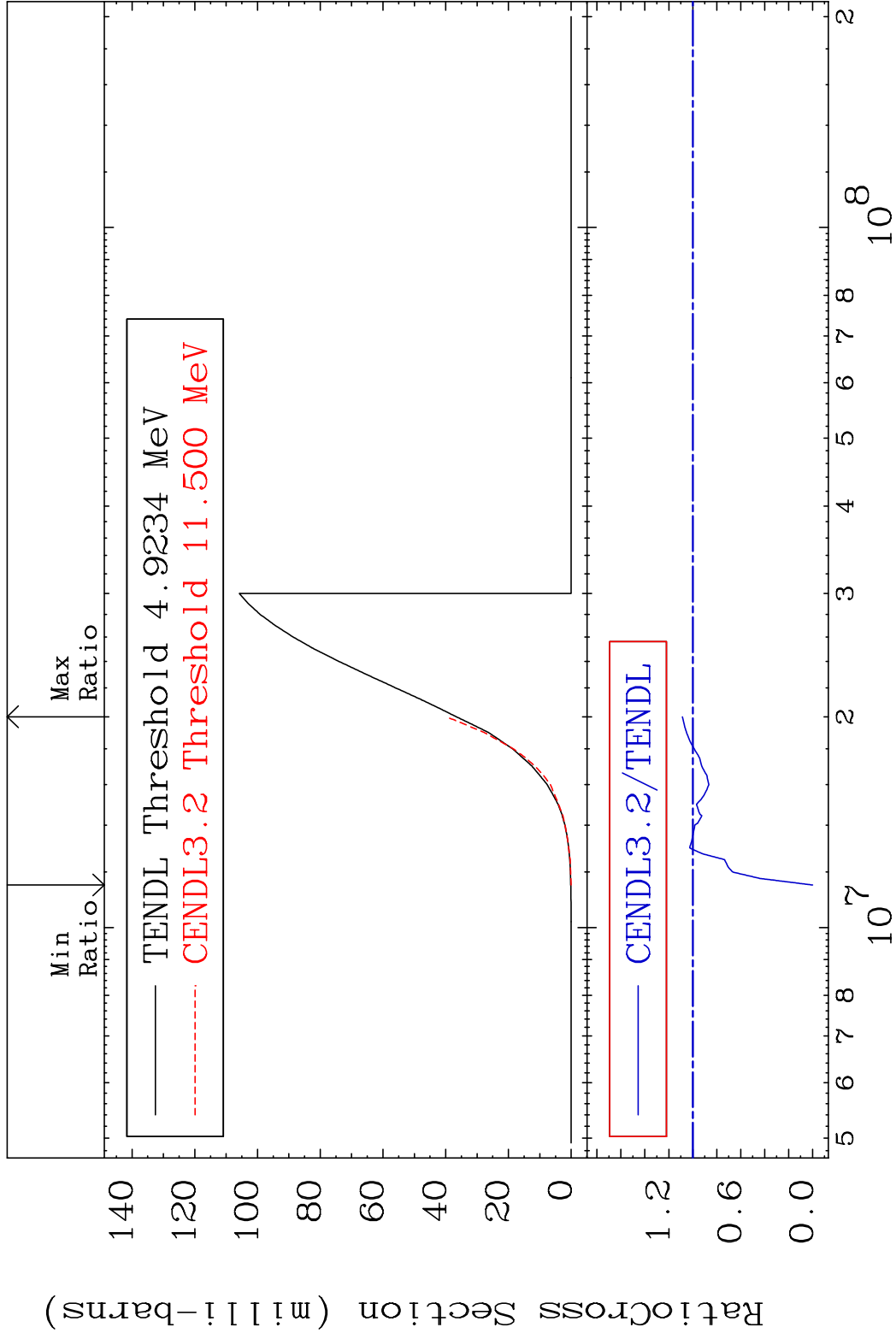
Incident Energy (eV)

63-Eu-151

MAT 6325

(n, n') p 63-Eu-151

Cross Section -100.0 To 8.707 %

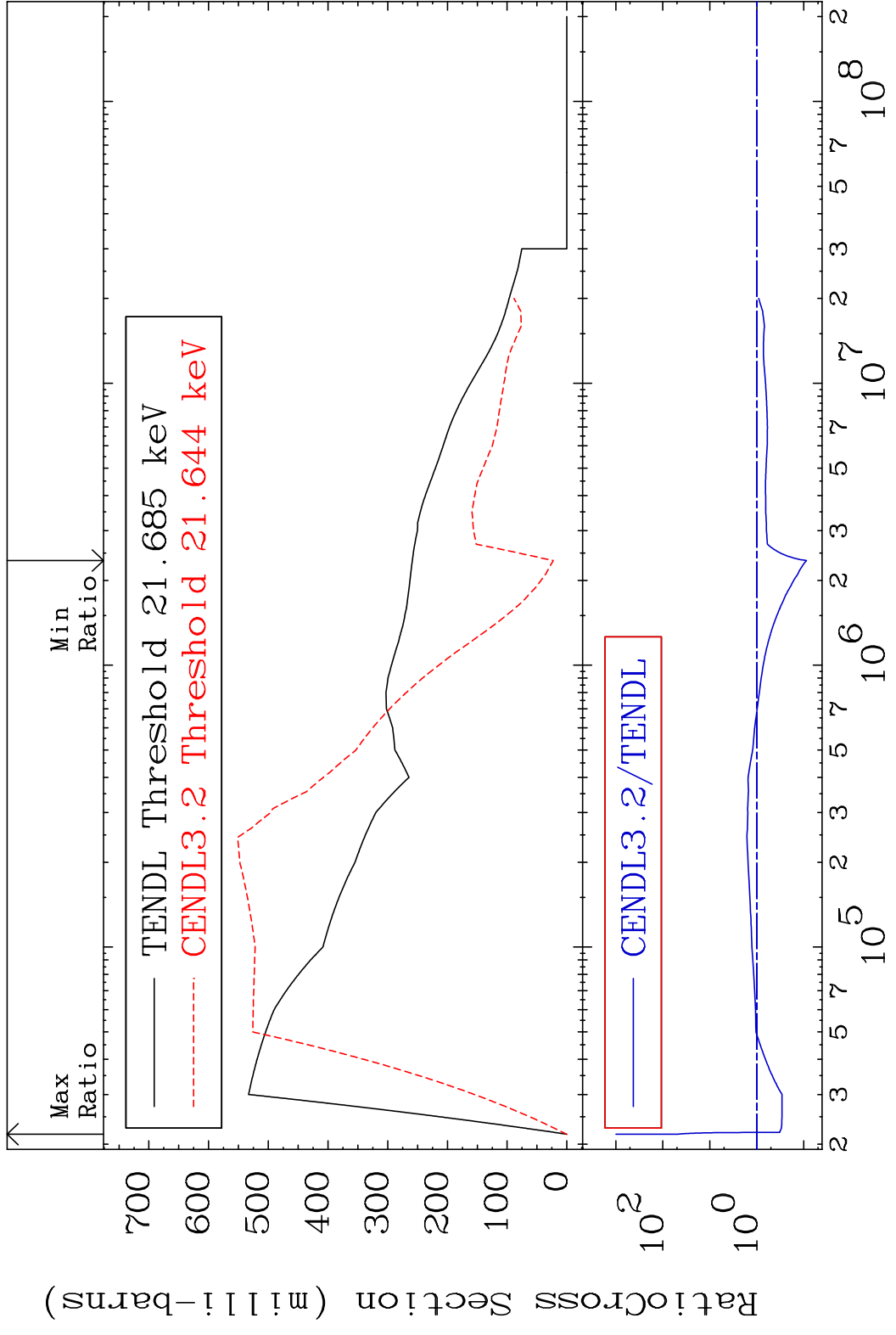


7

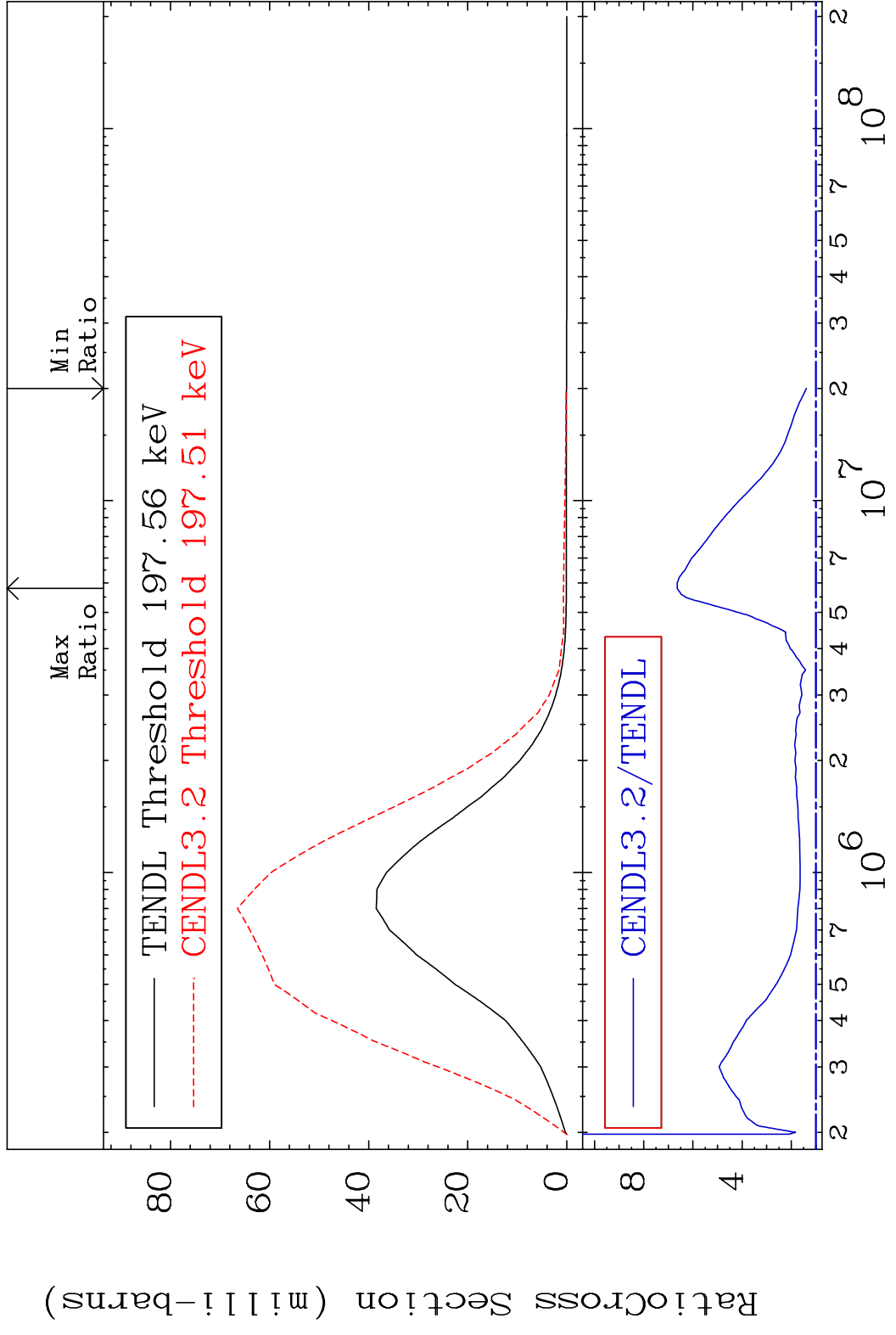
Incident Energy (eV)

63-Eu-151

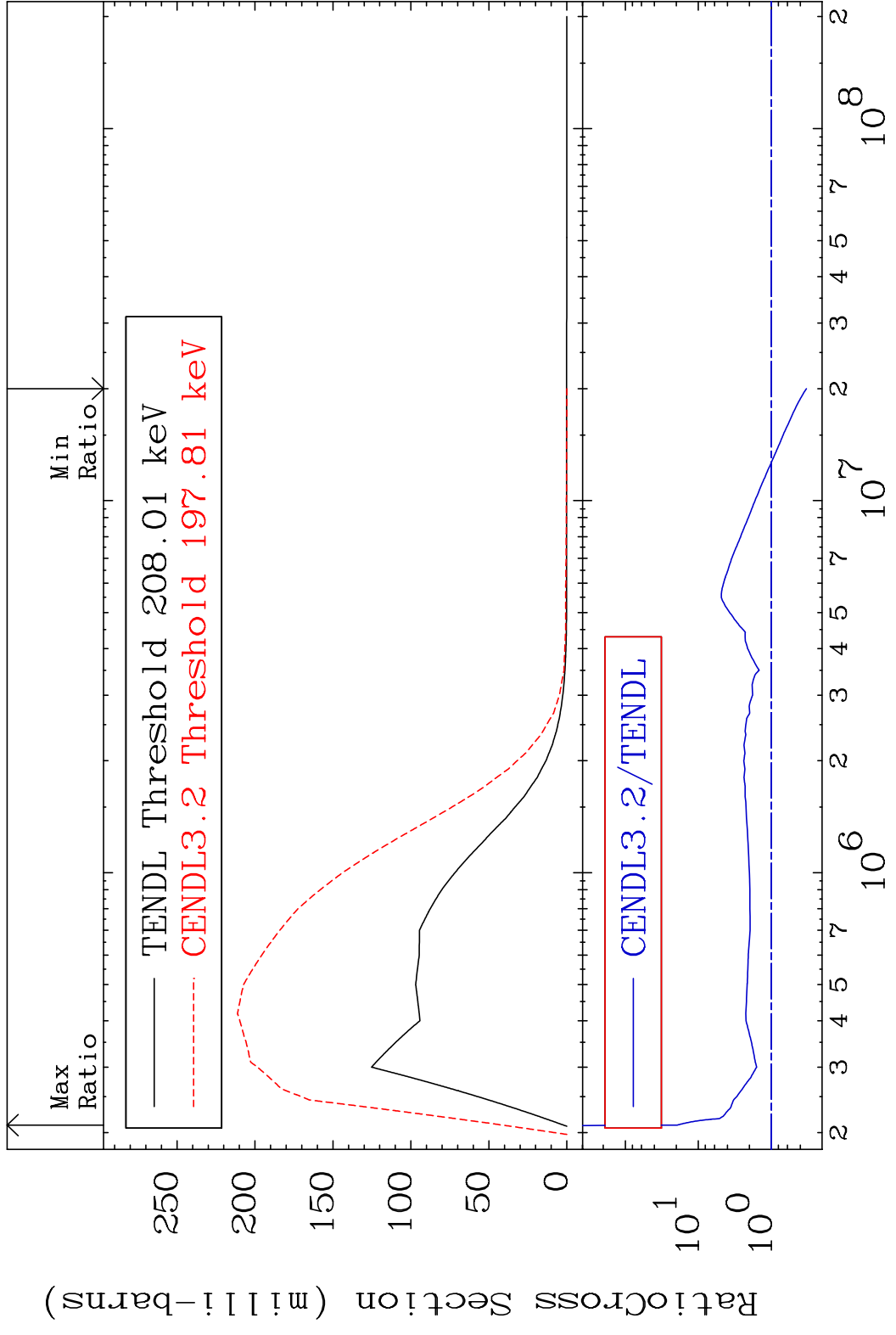
MAT 6325 MT= 51 (n, n') Level 63-Eu-151
 Cross Section -91.18 To 4845. %



MAT 6325 MT= 52 (n, n') Level 63-Eu-151
 Cross Section 38.39 To 563.8 %

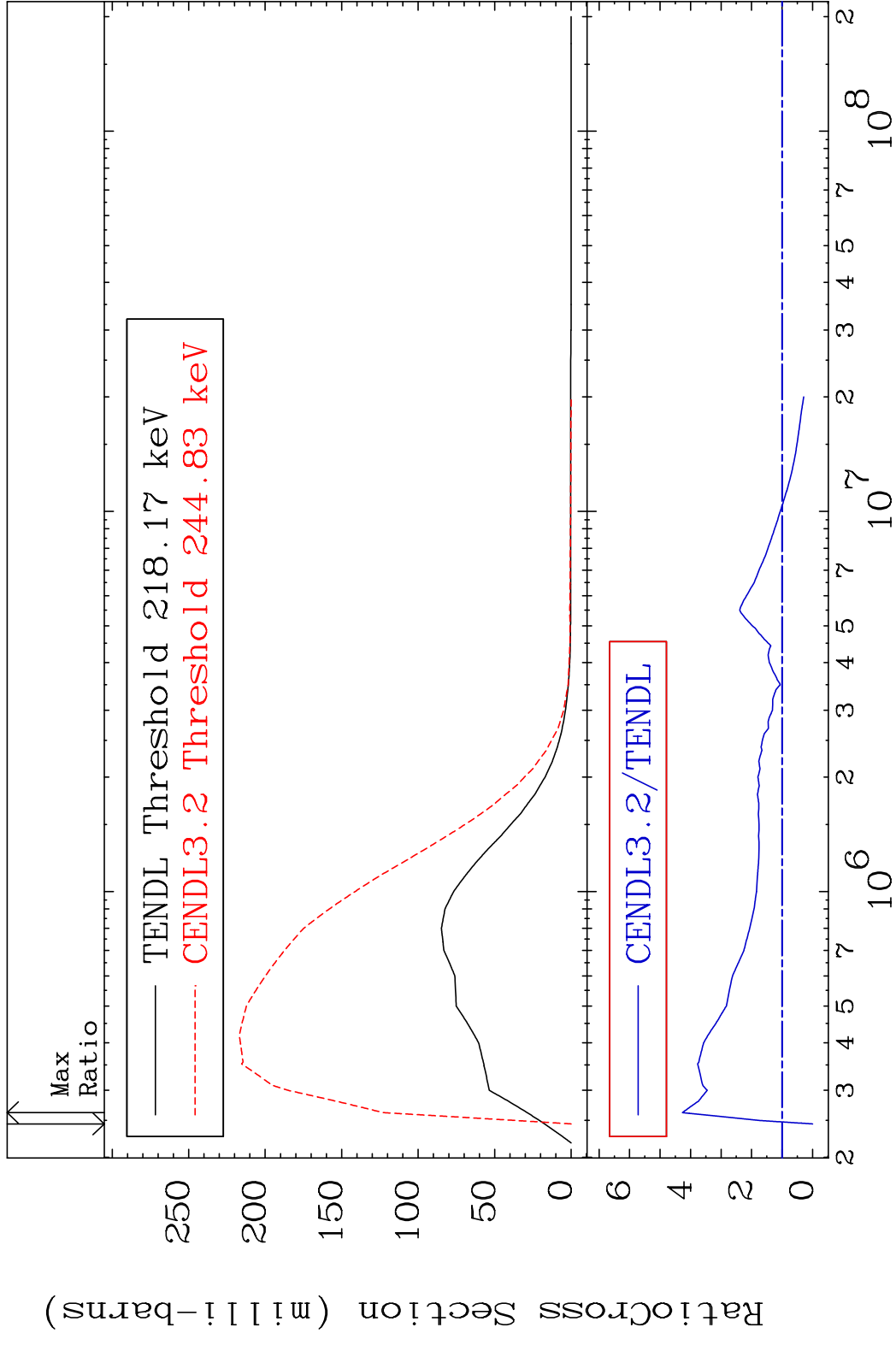


MAT 6325 MT= 53 (n,n') Level 63-Eu-151
 Cross Section -66.90 To 1847. %

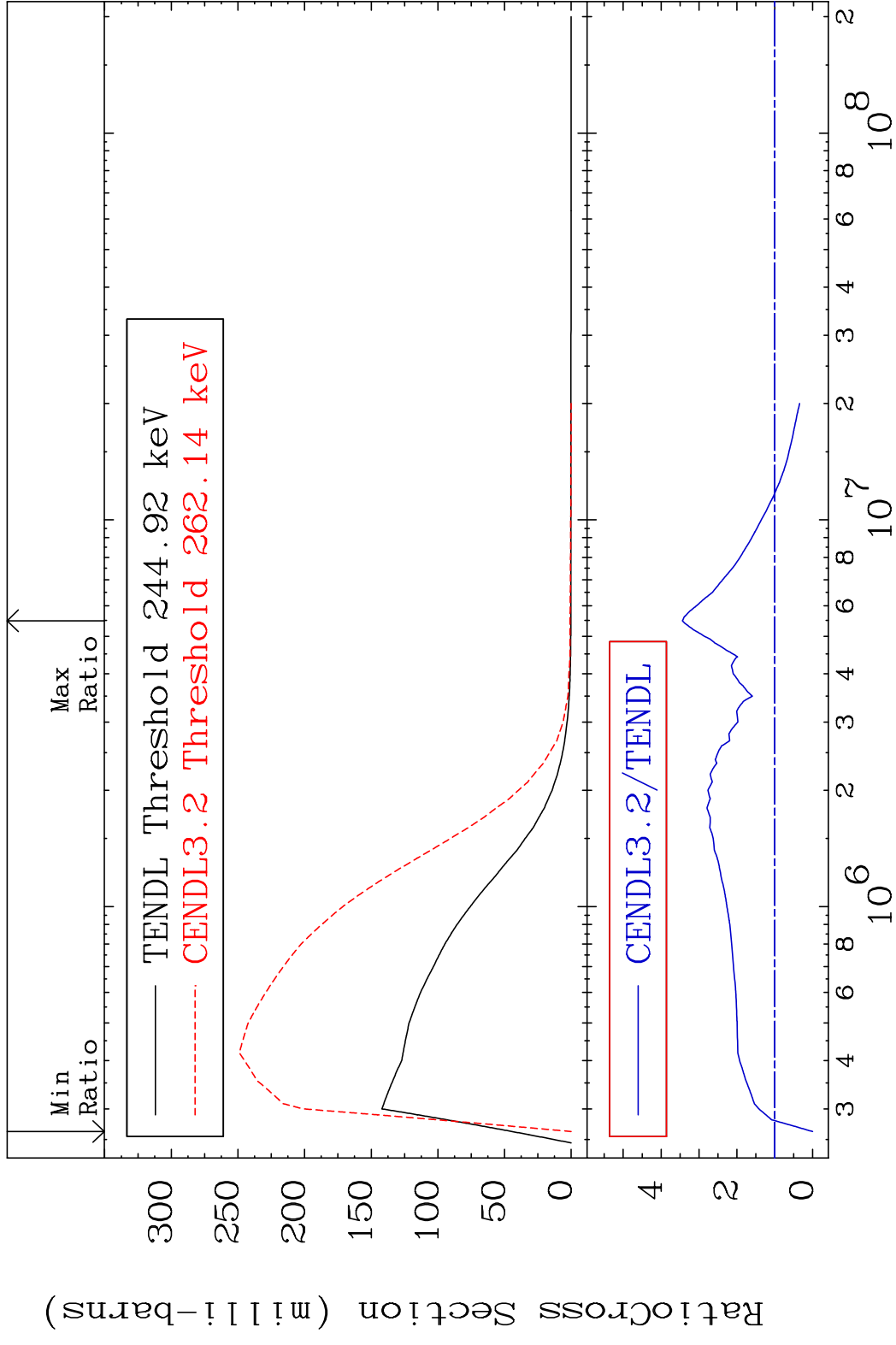


10 Incident Energy (eV) 63-Eu-151

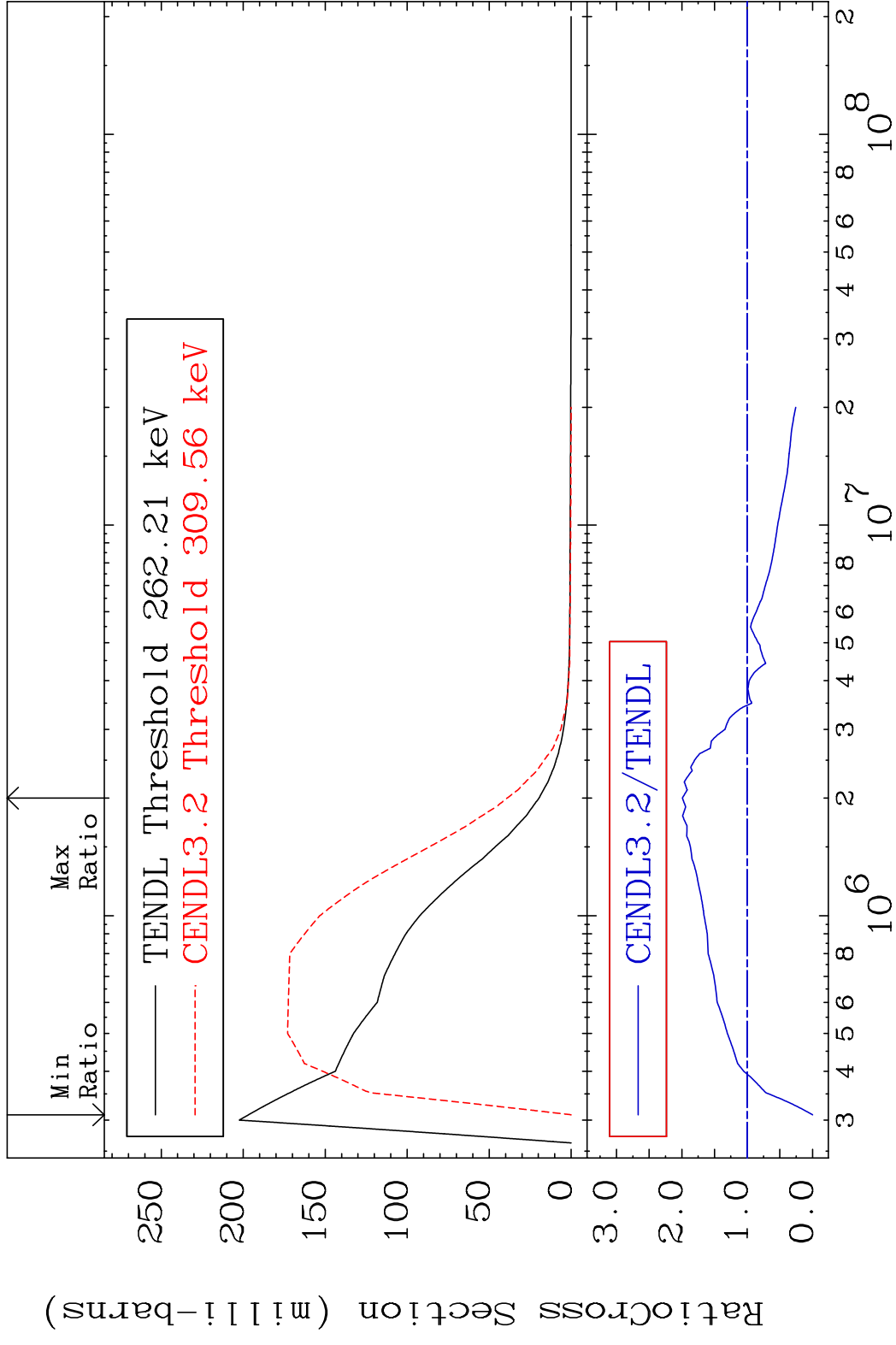
MAT 6325 MT= 54 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 327.0 %



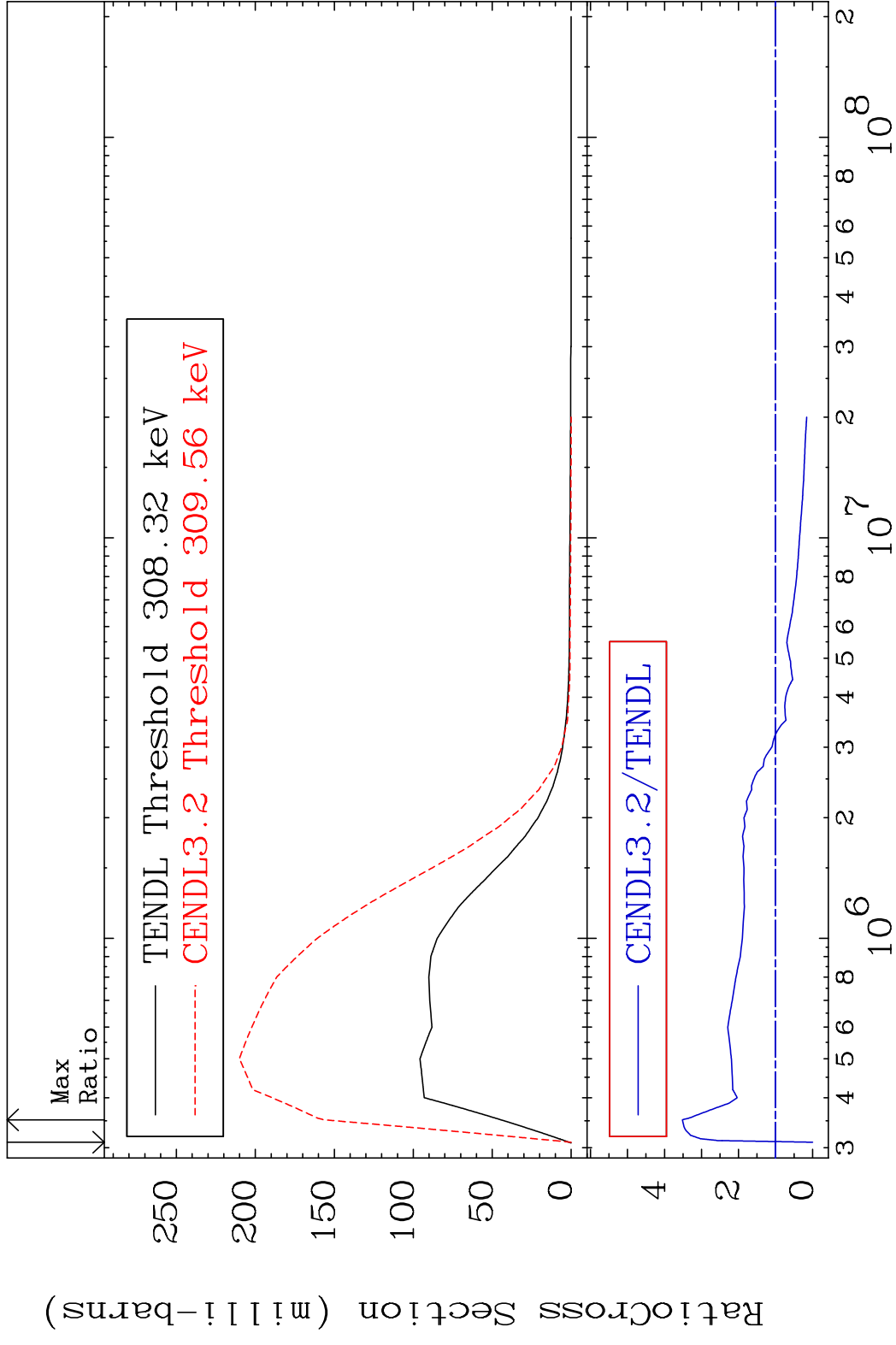
MAT 6325 MT= 55 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 243.8 %



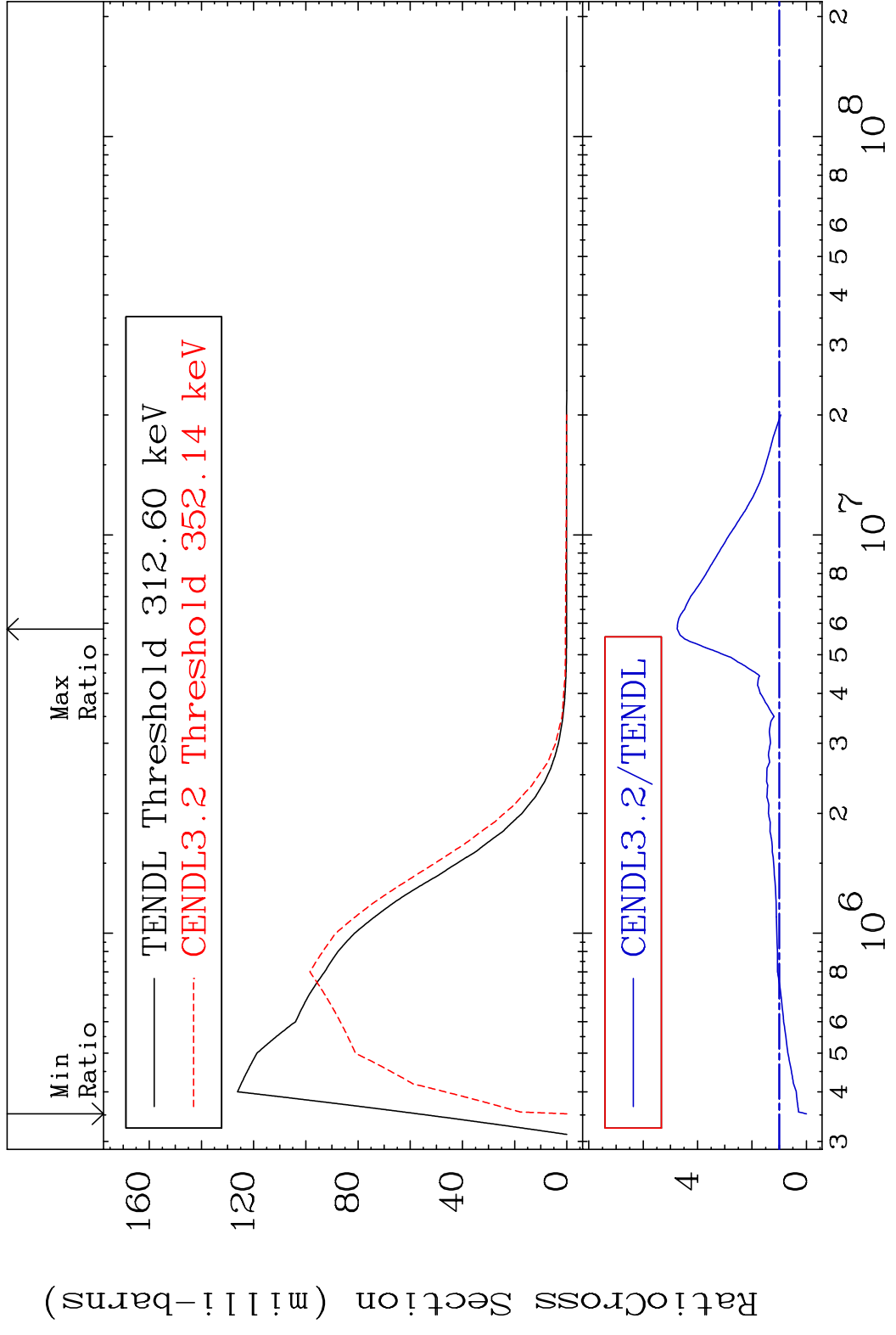
MAT 6325 MT= 56 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 99.19 %



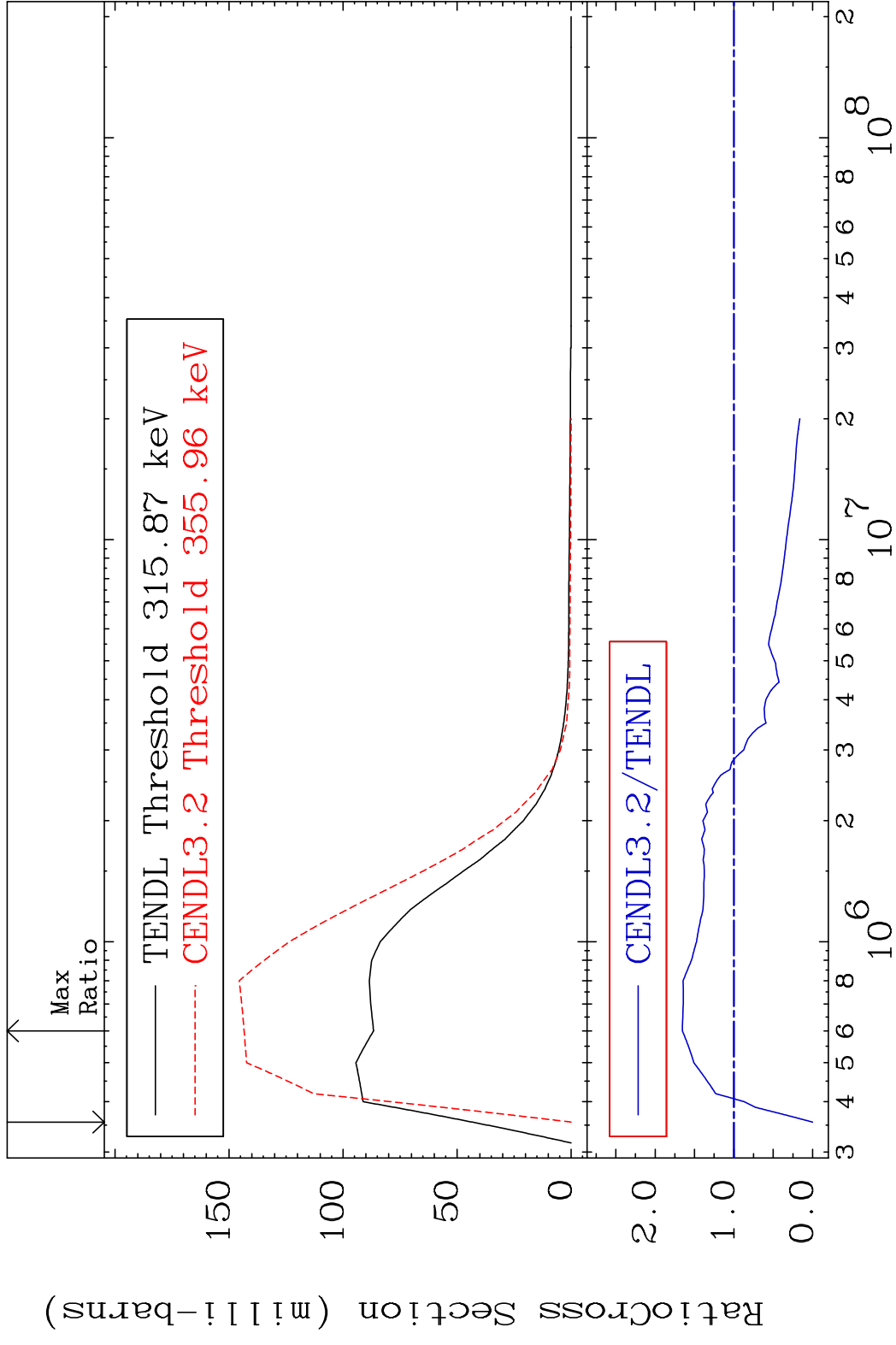
MAT 6325 MT= 57 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 251.8 %



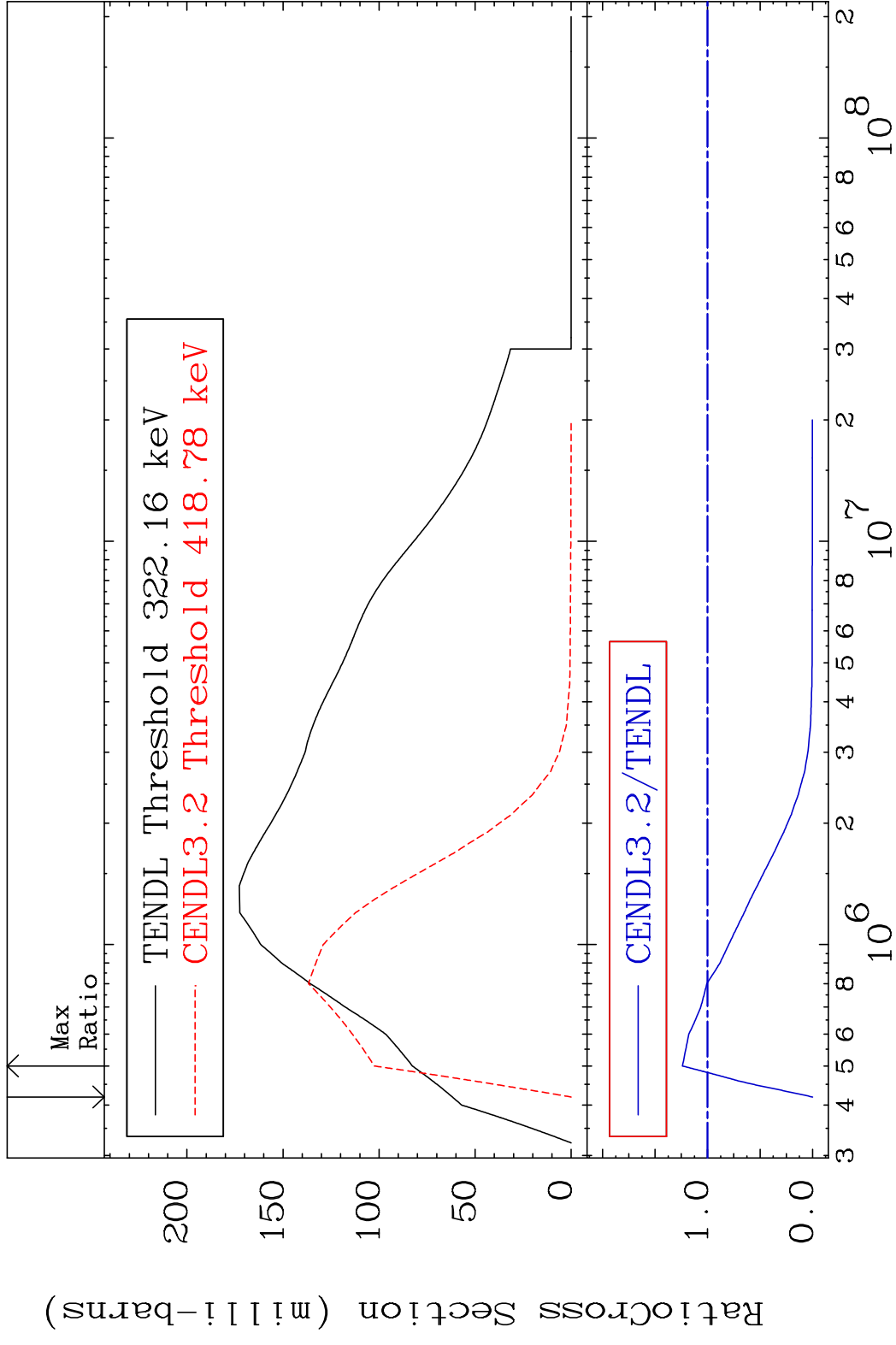
MAT 6325 MT= 58 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 375.1 %



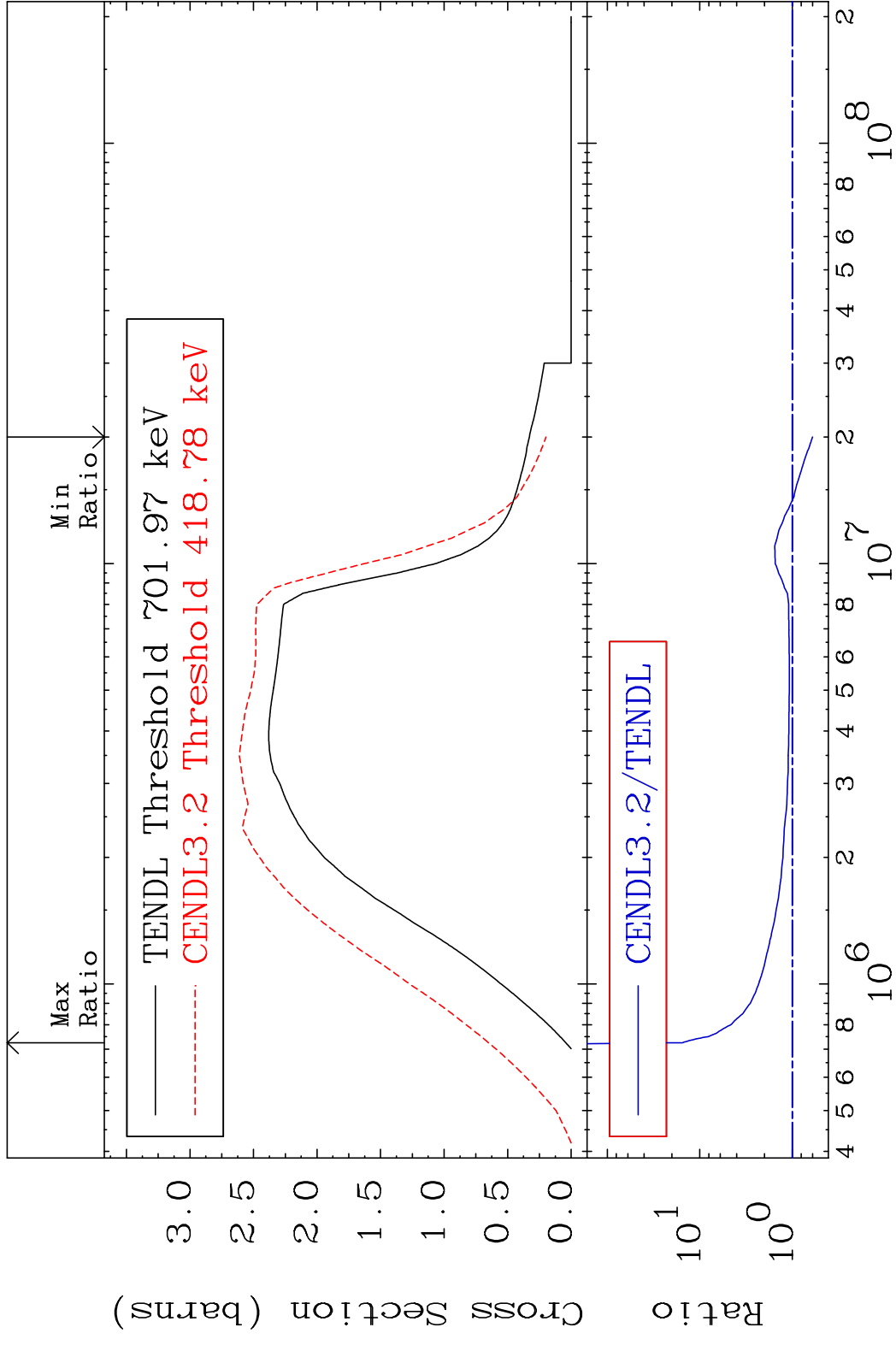
MAT 6325 MT= 59 (n,n') Level 63-Eu-151
 Cross Section -100.0 To 65.47 %



MAT 6325 MT= 60 (n, n') Level 63-Eu-151
 Cross Section -100.0 To 24.00 %



MAT 6325 (n, n') Continuum 63-Eu-151
 Cross Section -39.78 To 1444. %

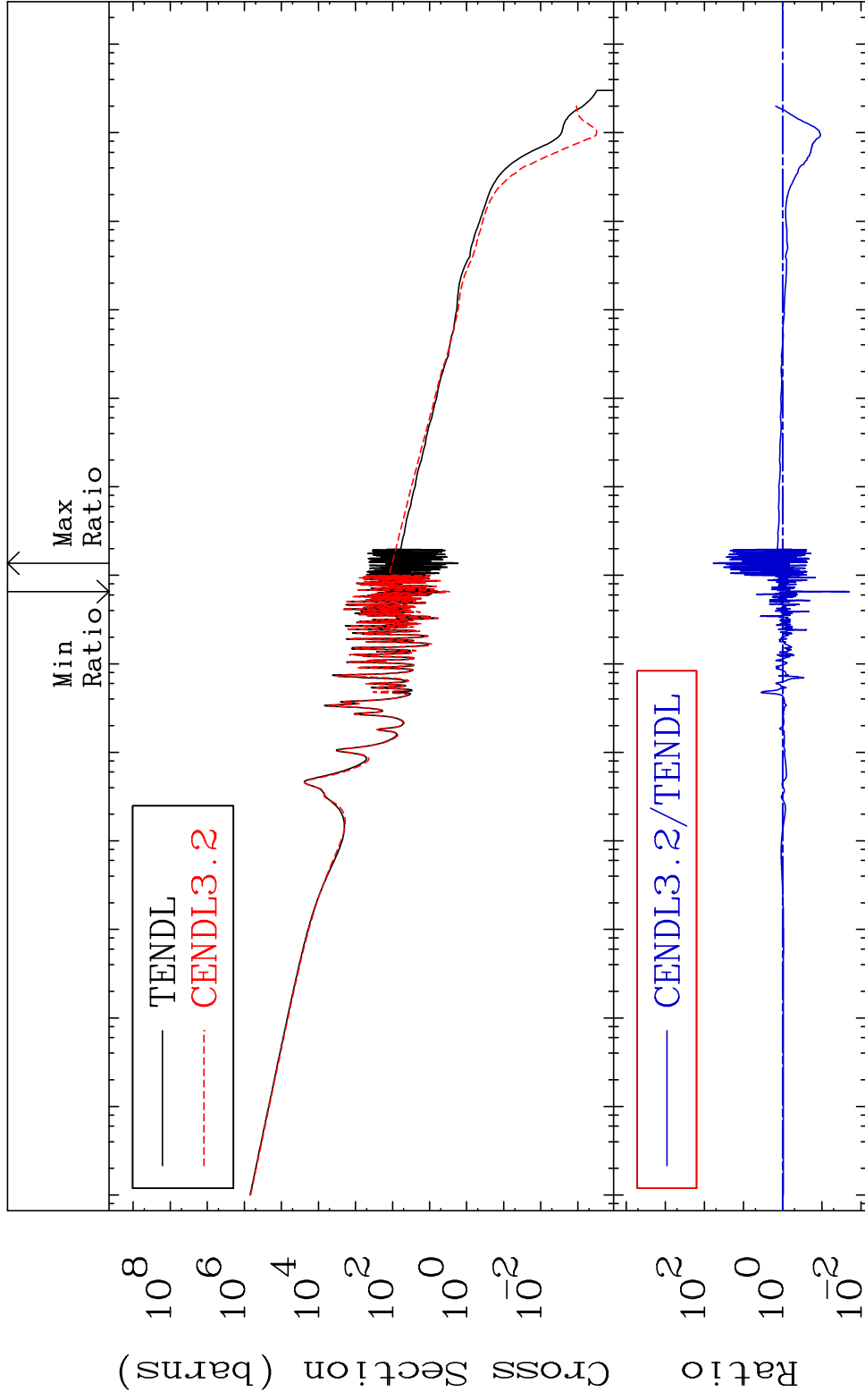


MAT 6325

(n, γ)

63-Eu-151

Cross Section -98.01 To 5868. %

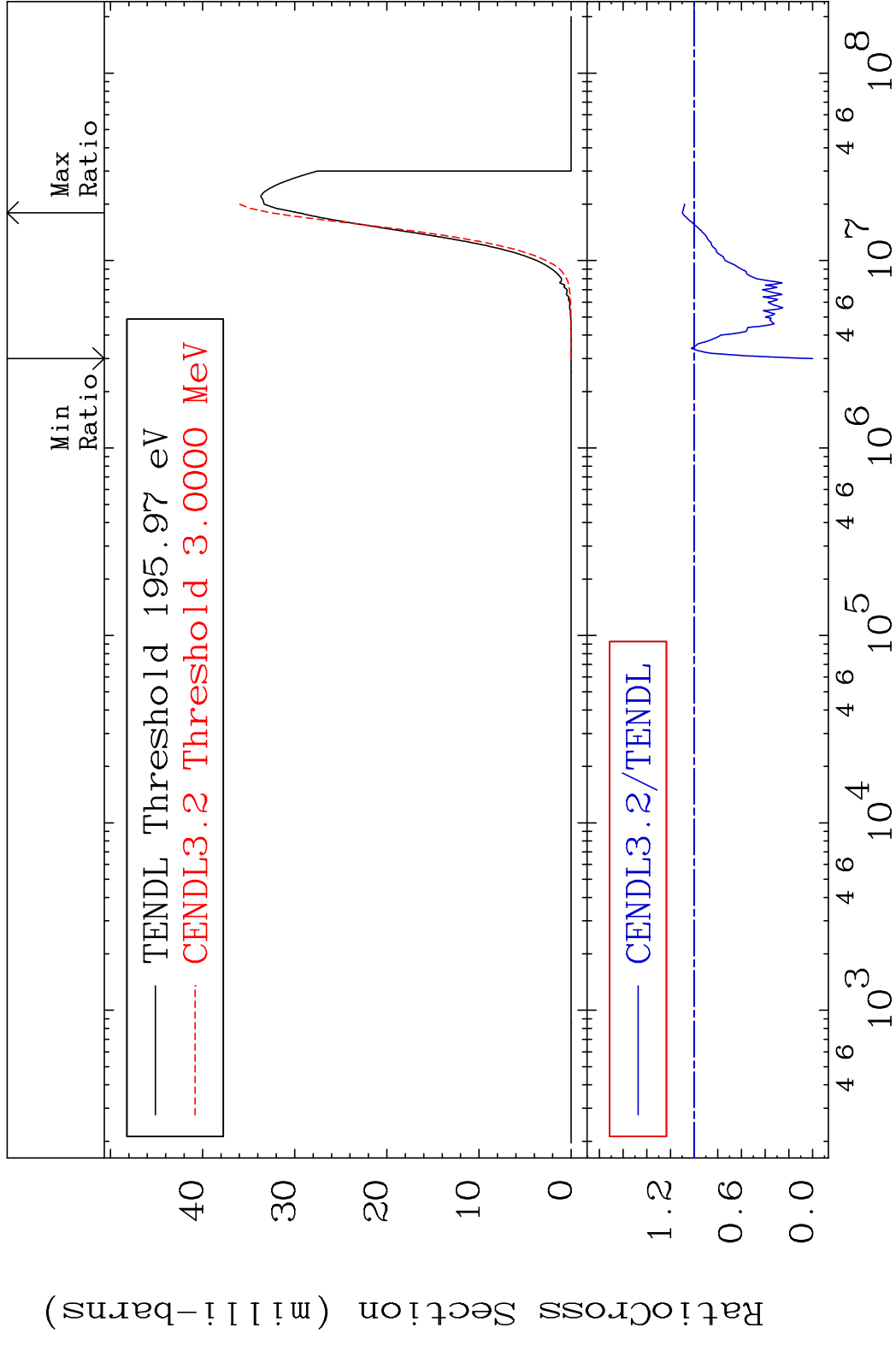


19

Incident Energy (eV)

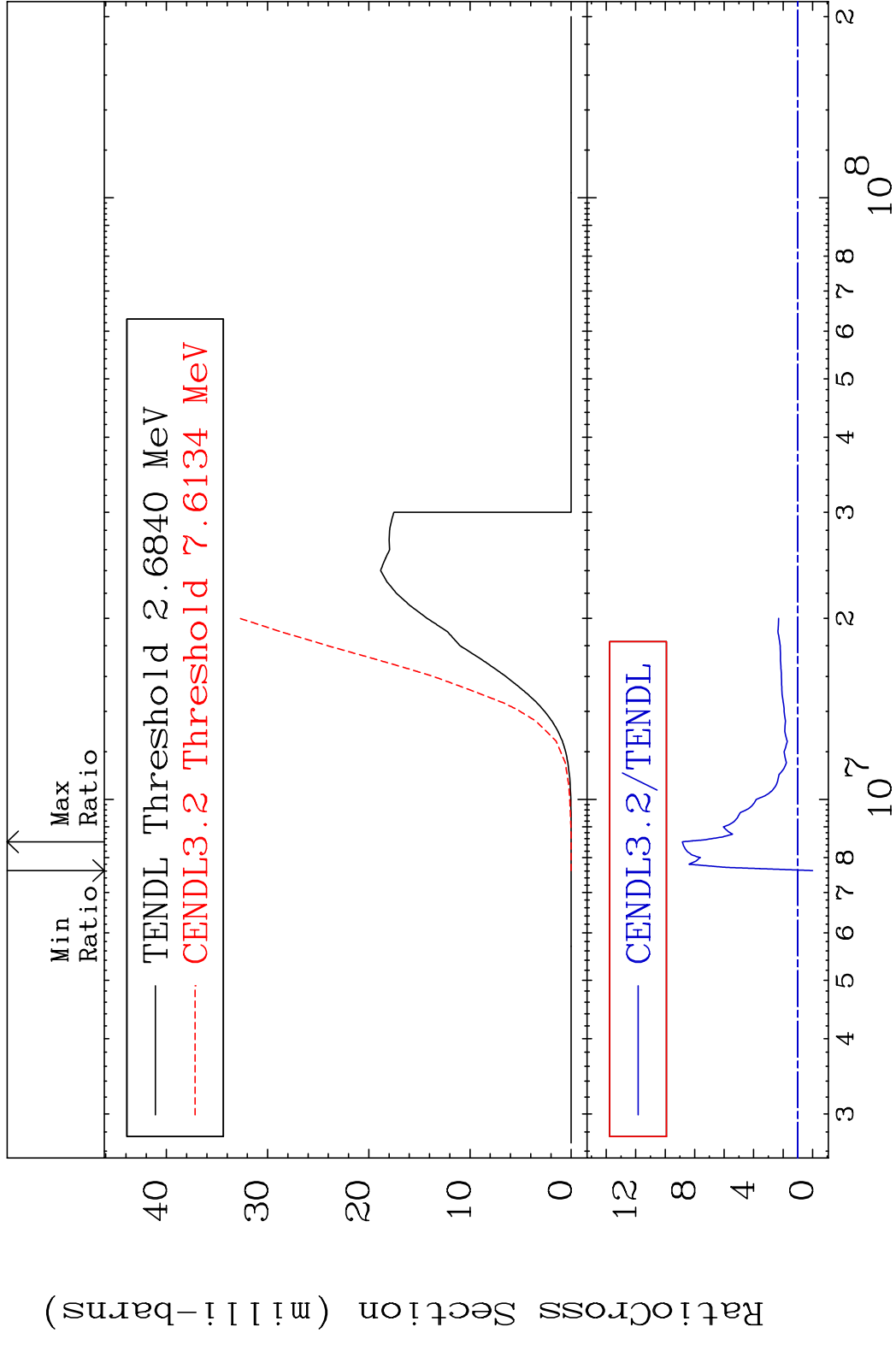
63-Eu-151

MAT 6325 (n,p) 63-Eu-151
 Cross Section -100.0 To 9.933 %

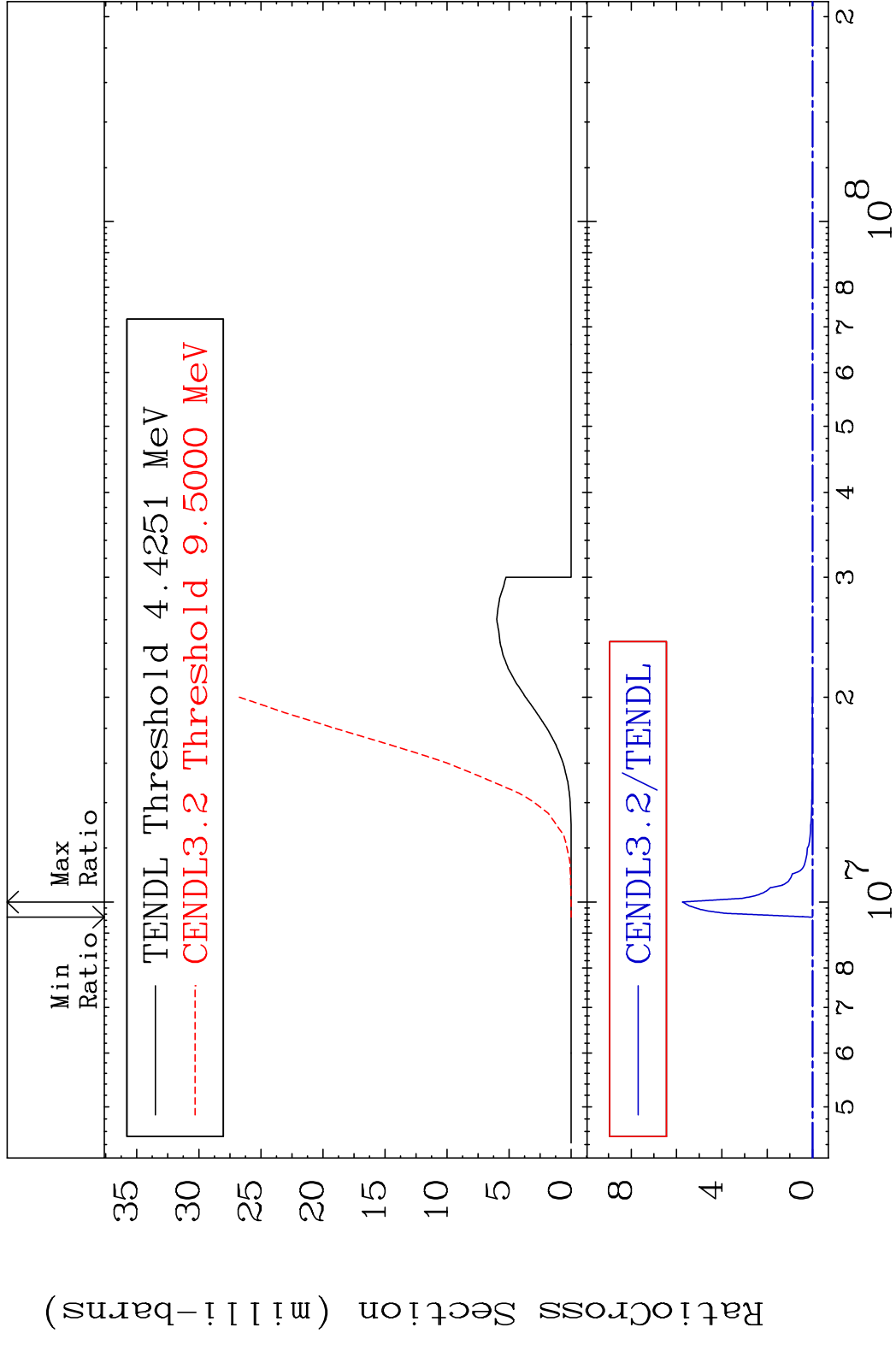


20 63-Eu-151

MAT 6325 (n,d) 63-Eu-151
 Cross Section -100.0 To 783.5 %



MAT 6325 (n, t) 63-Eu-151
 Cross Section -100.0 To 9999. %

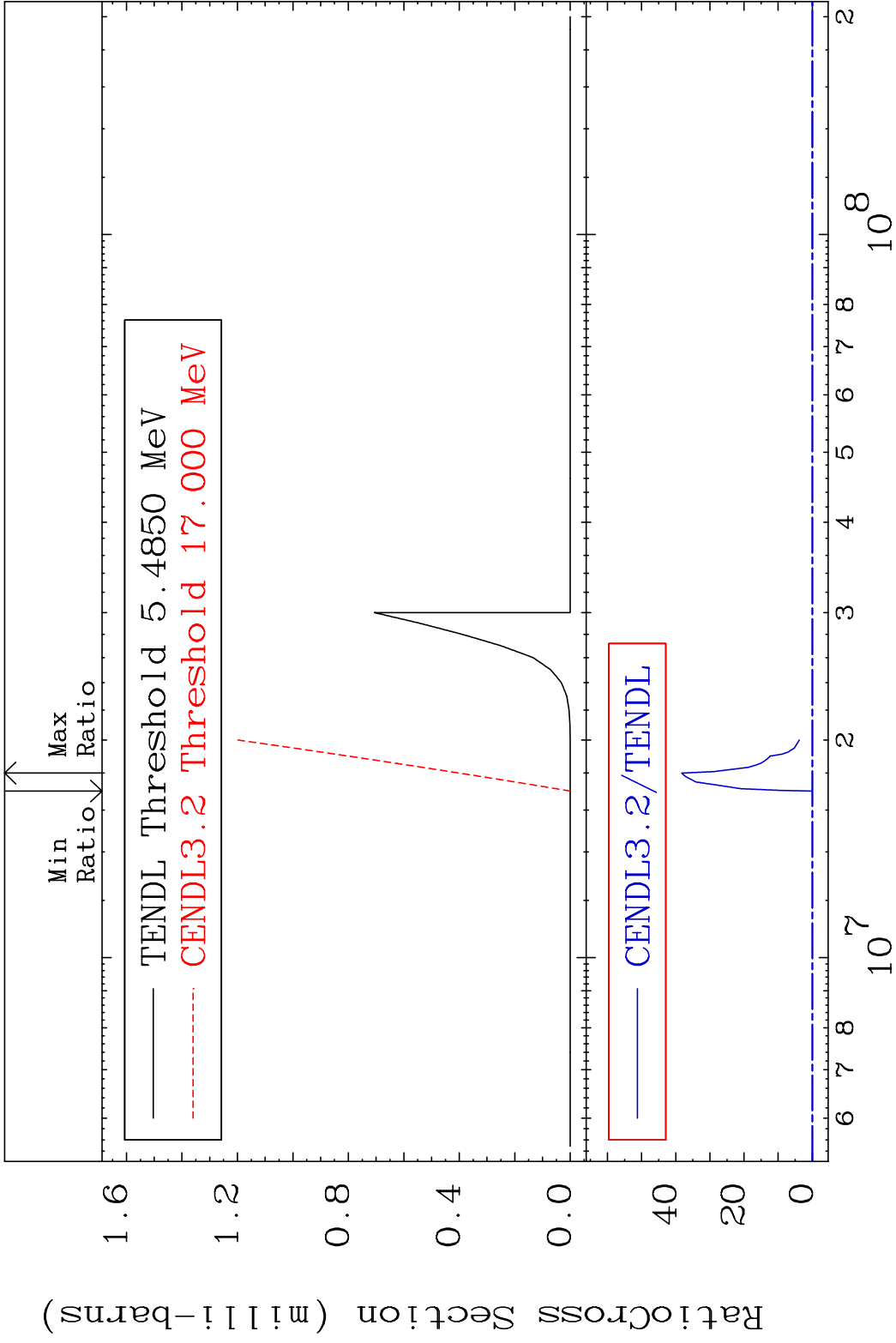


MAT 6325

(n, He-3)

63-Eu-151

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

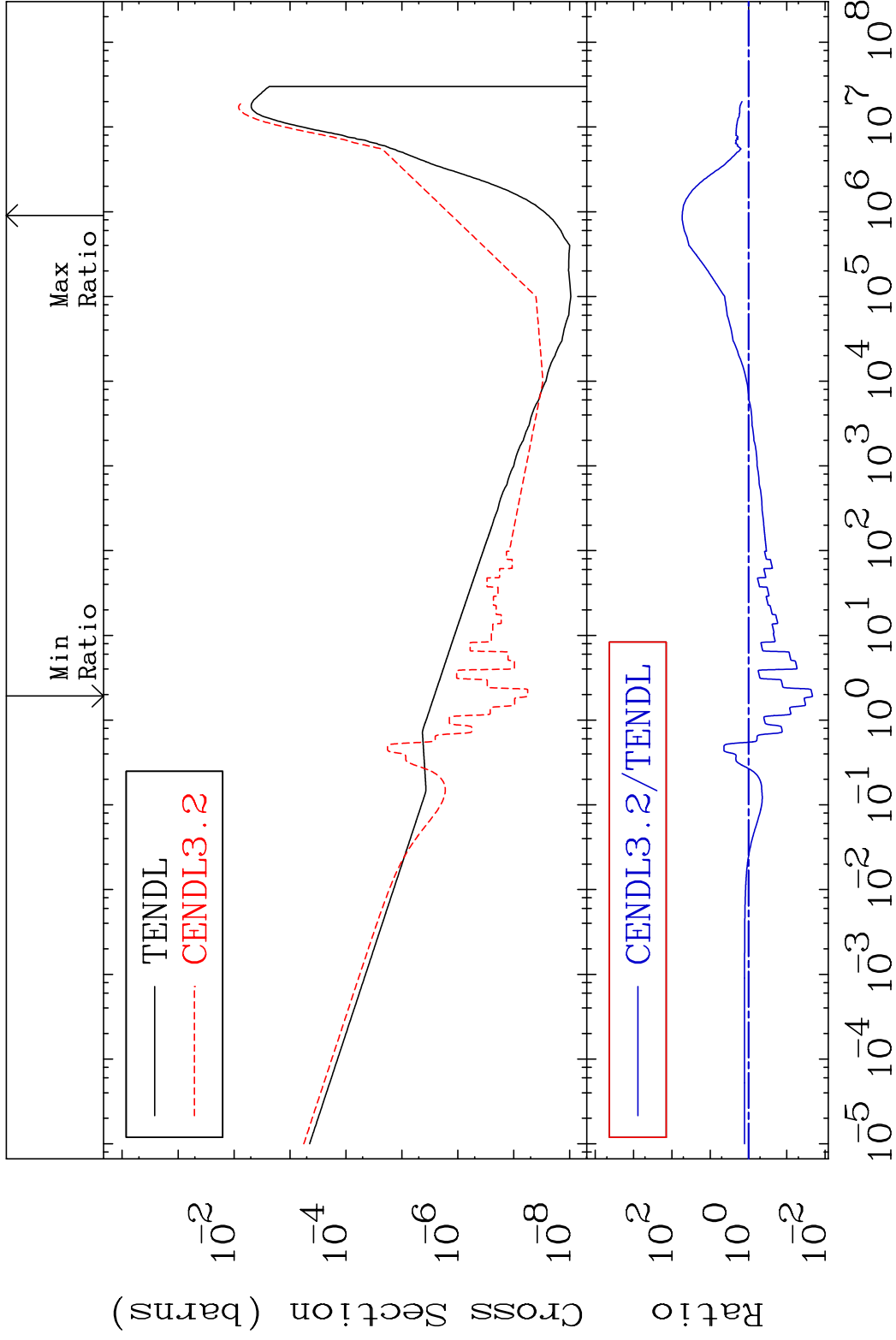
63-Eu-151

MAT 6325

(n, α)

63-Eu-151

Cross Section -97.86 To 5287. %



24

Incident Energy (eV)

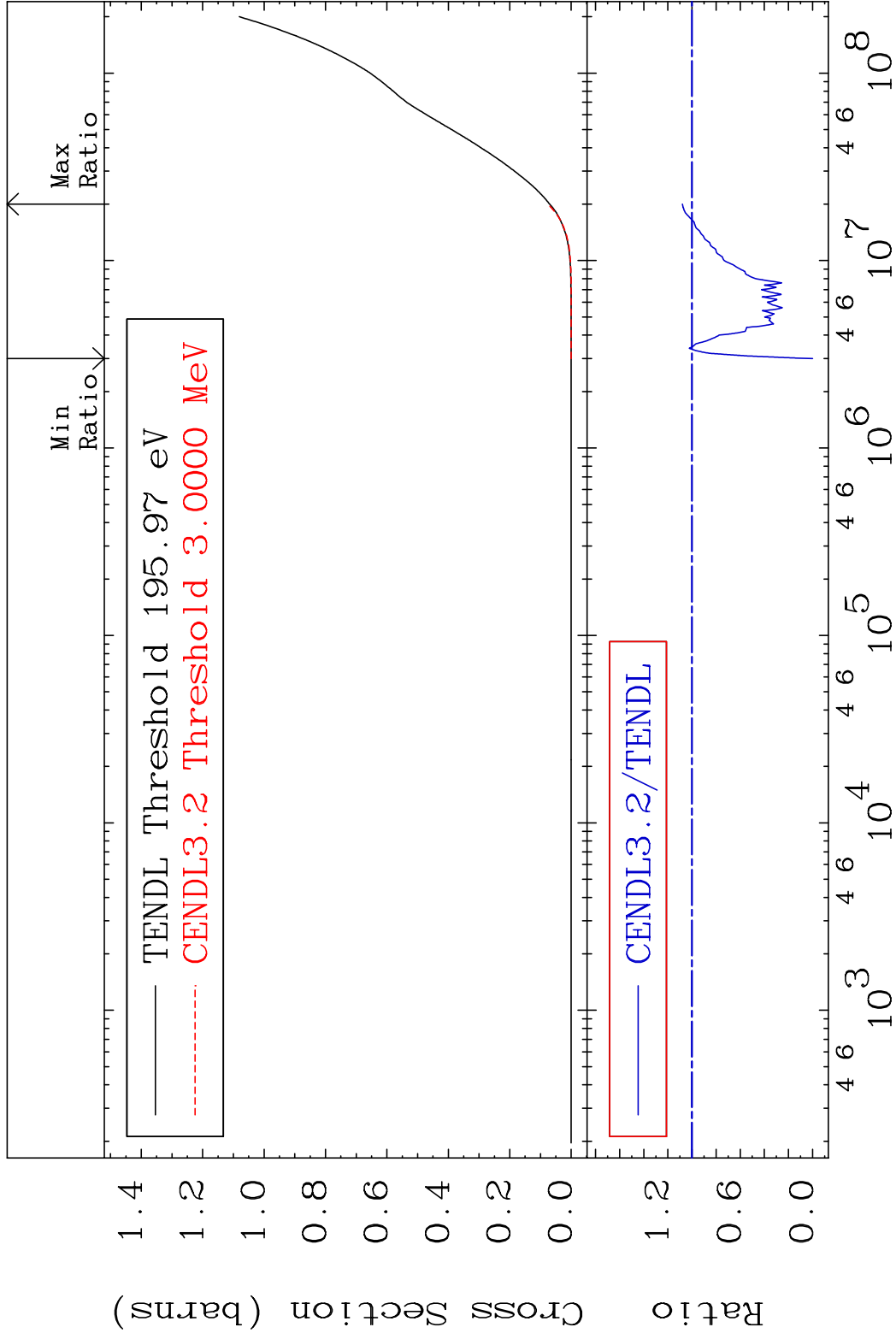
63-Eu-151

MAT 6325

Hydrogen Production

63-Eu-151

Cross Section -100.0 To 8.014 %

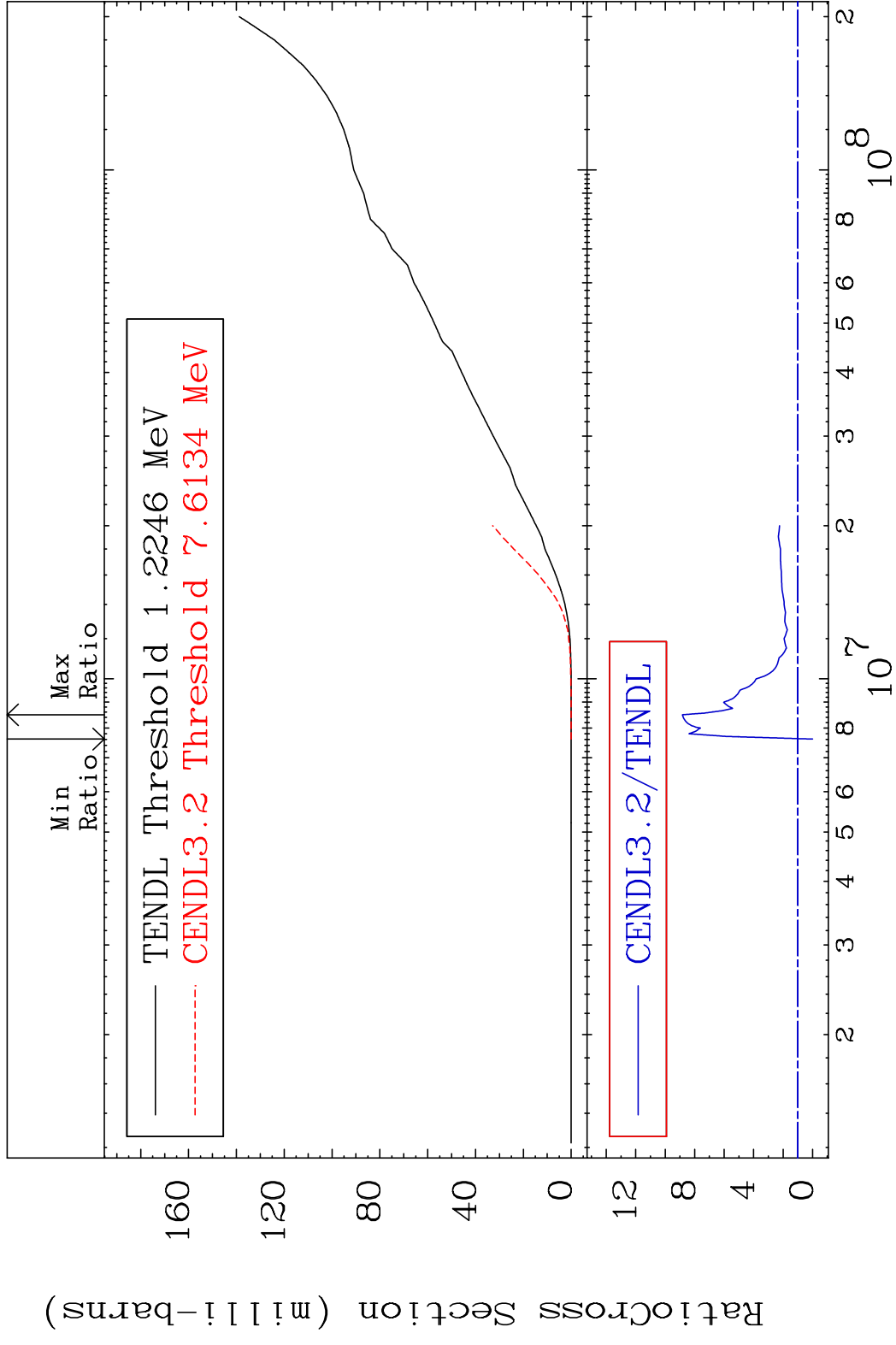


25

Incident Energy (eV)

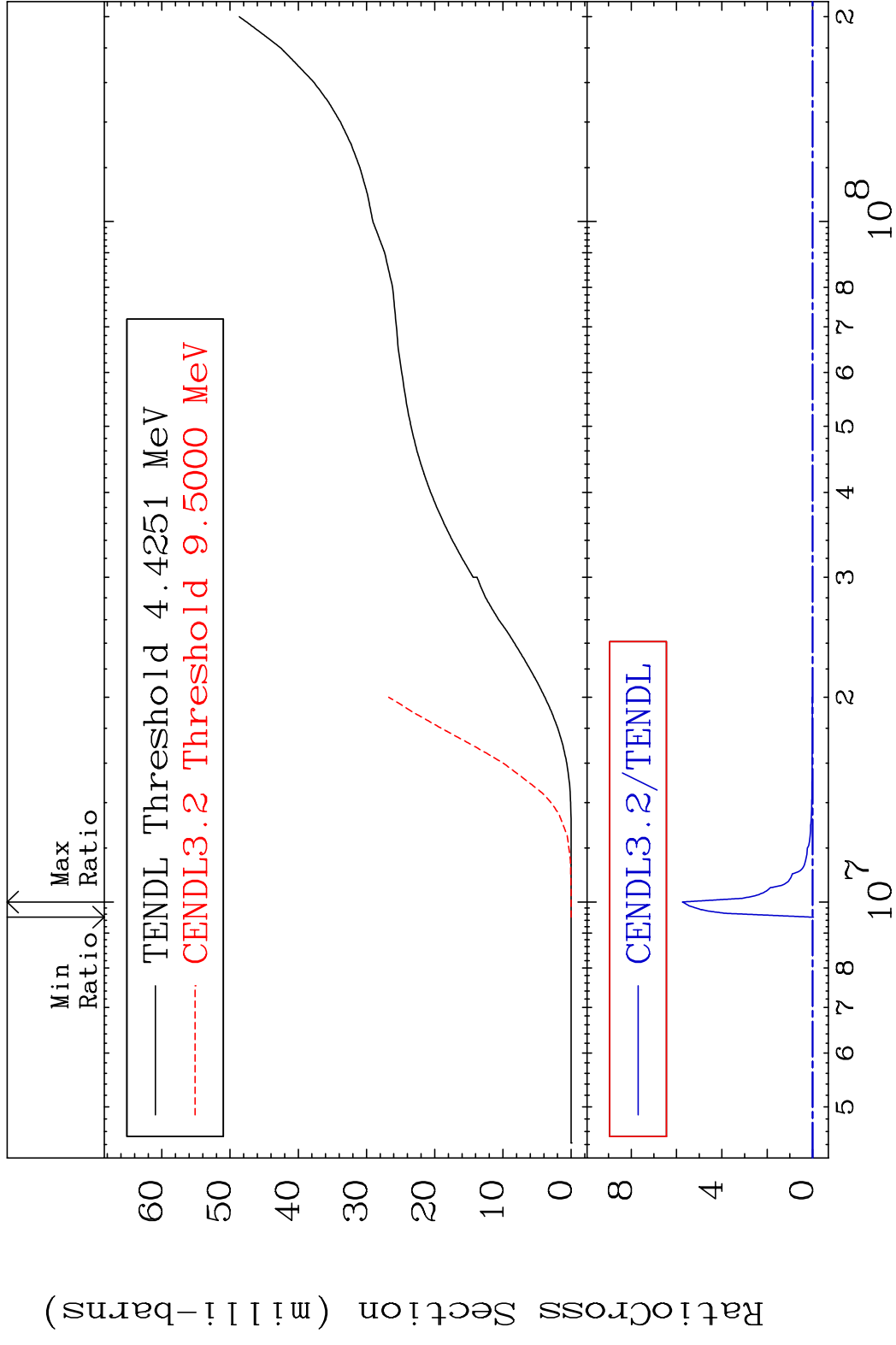
63-Eu-151

MAT 6325 Deuterium Production 63-Eu-151
 Cross Section -100.0 To 783.5 %



MAT 6325

Tritium Production 63-Eu-151
Cross Section -100.0 To 9999. %

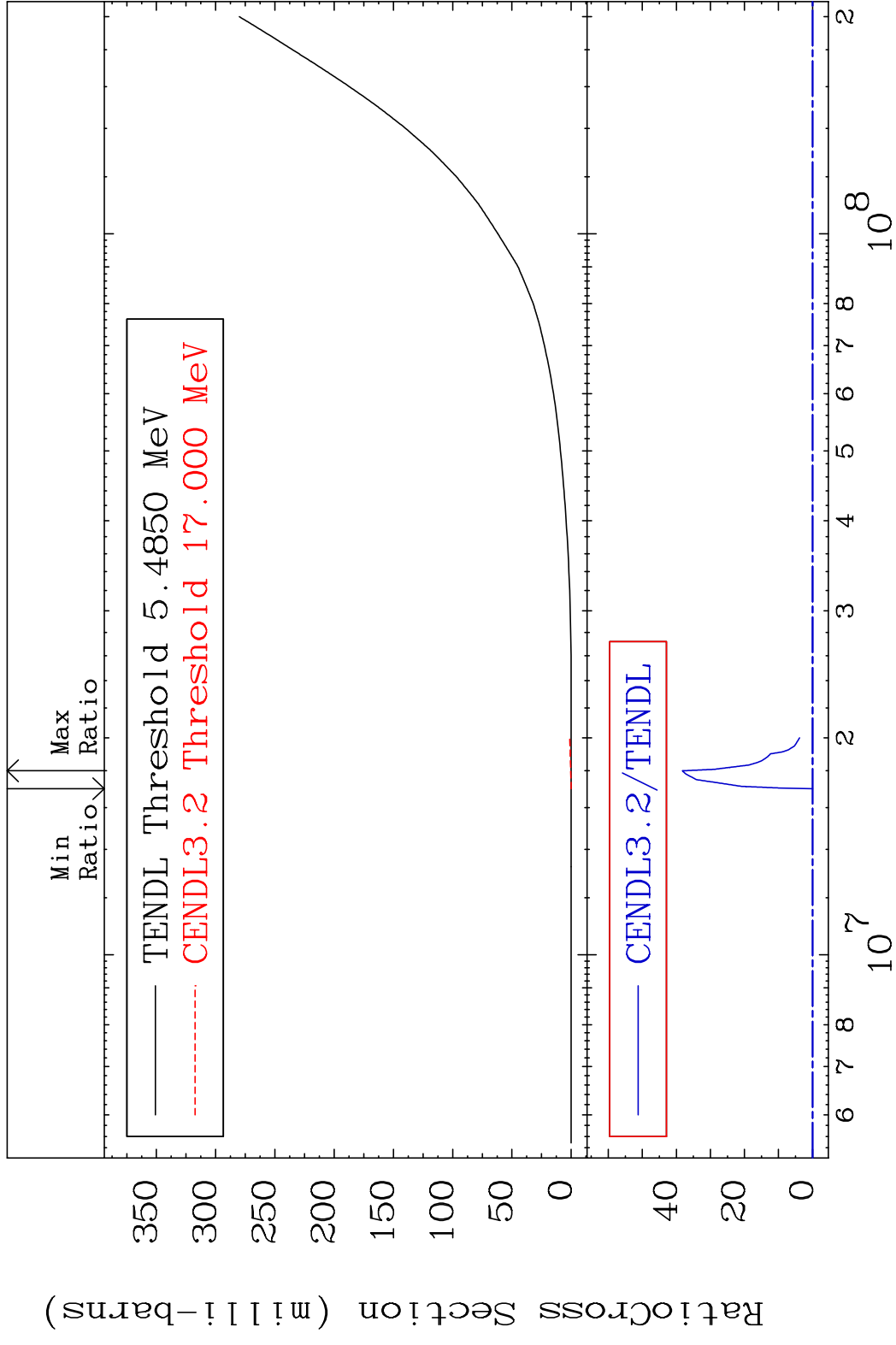


MAT 6325

He-3 Production

63-Eu-151

Cross Section -100.0 To 9999. %

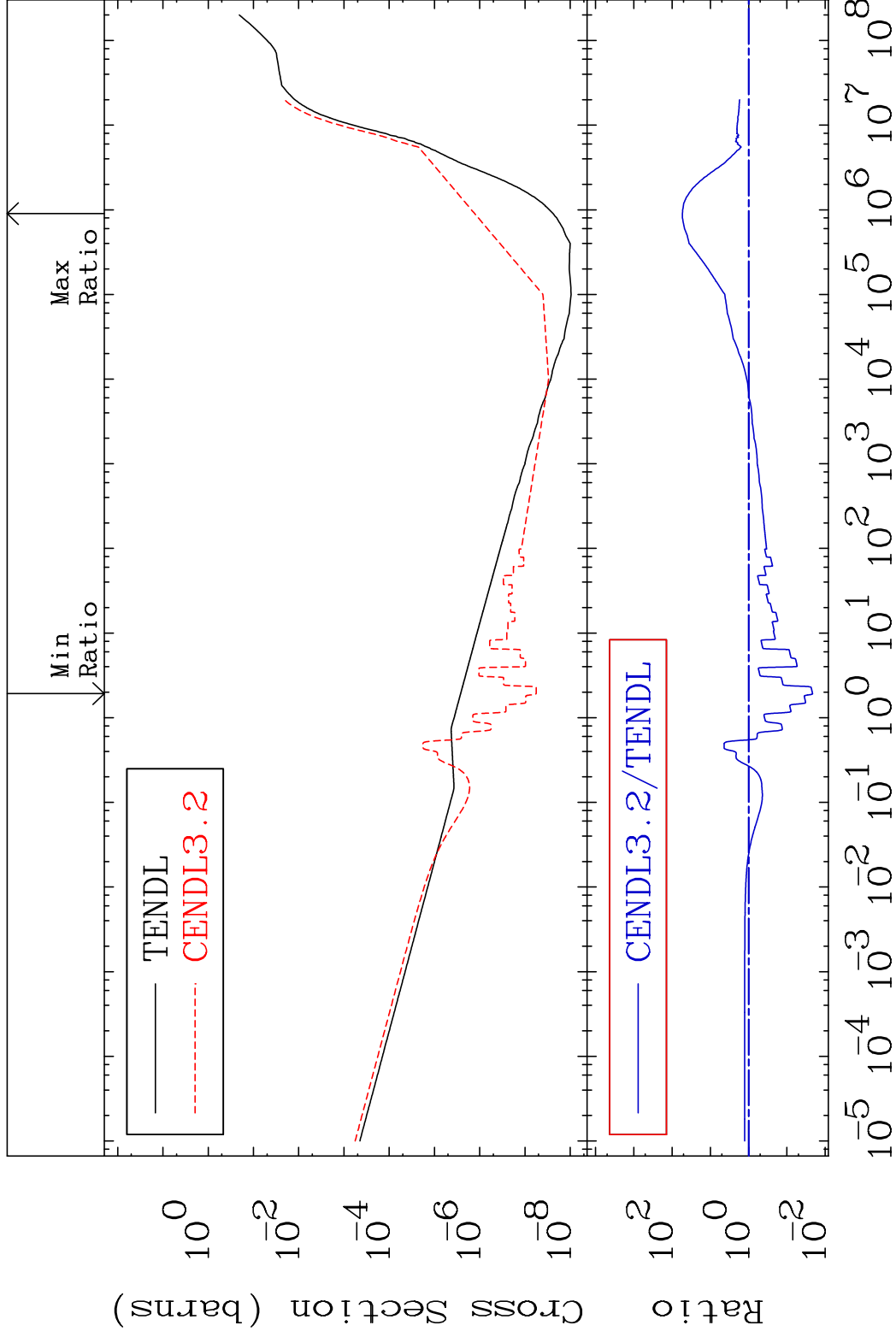


MAT 6325

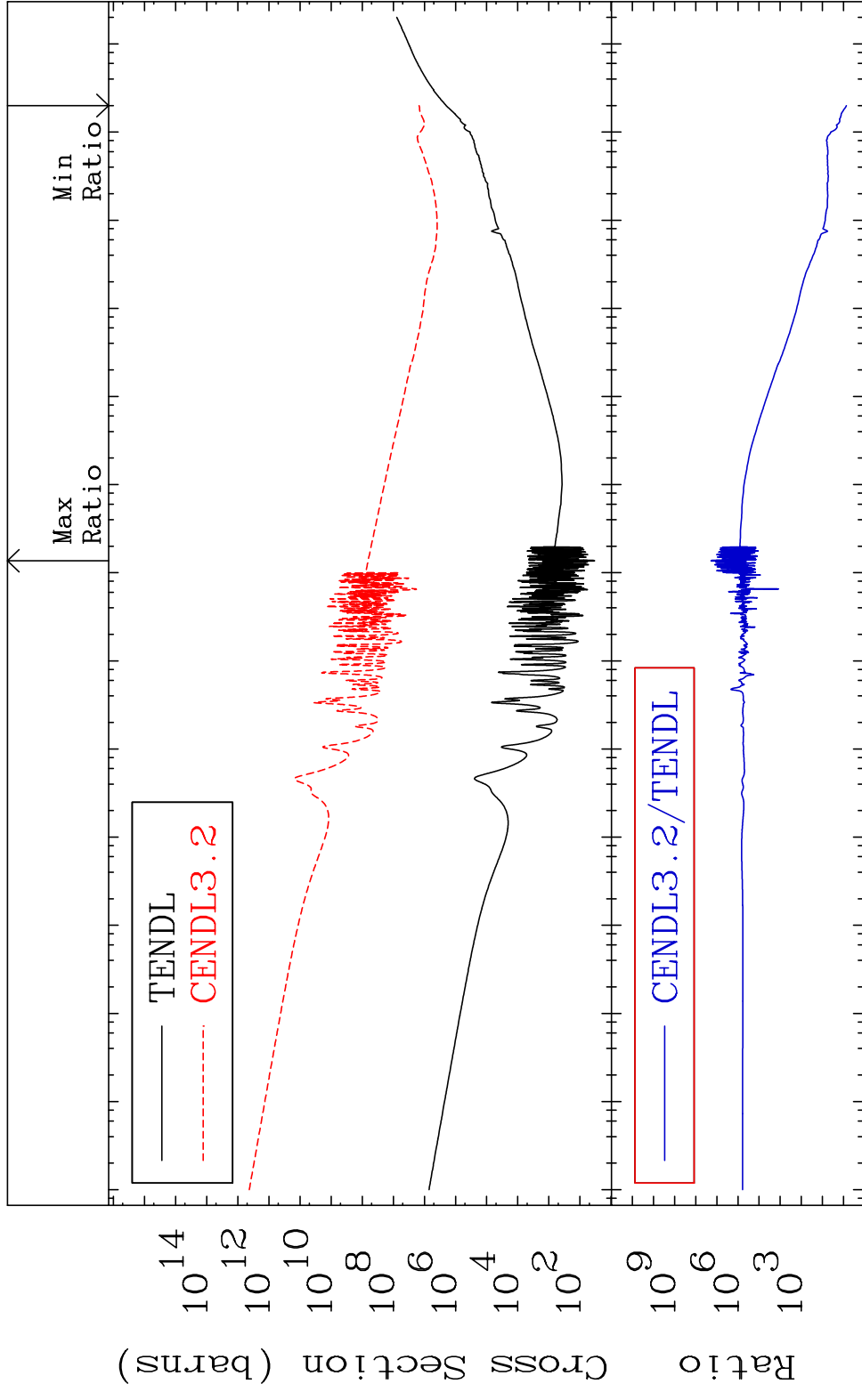
He-4 Production

63-Eu-151

Cross Section -97.86 To 5287. %



MAT 6325 Kerma total (eV-barns) 63-Eu-151
 Cross Section 642.6 To 9999. %

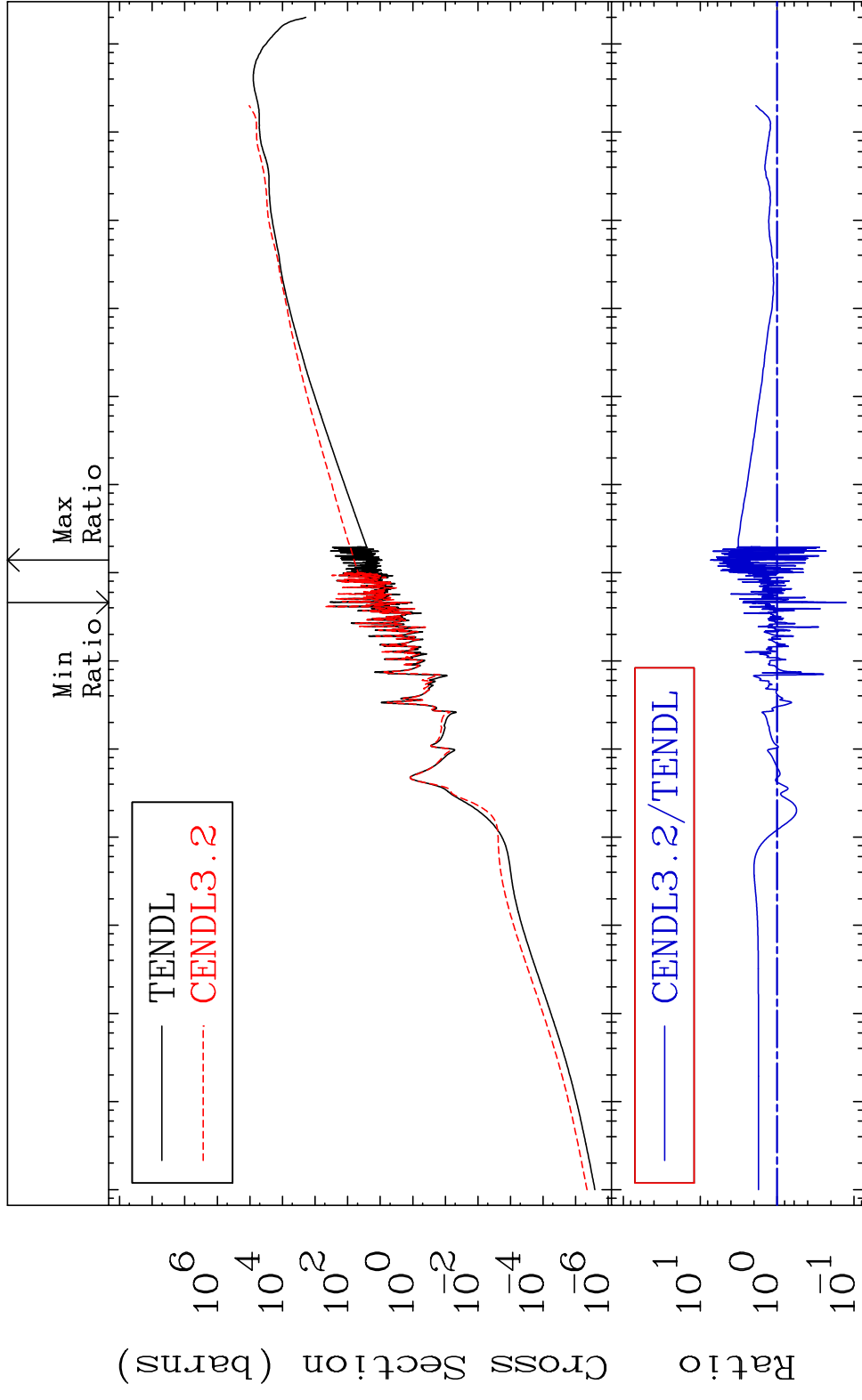


30 Incident Energy (eV) 63-Eu-151

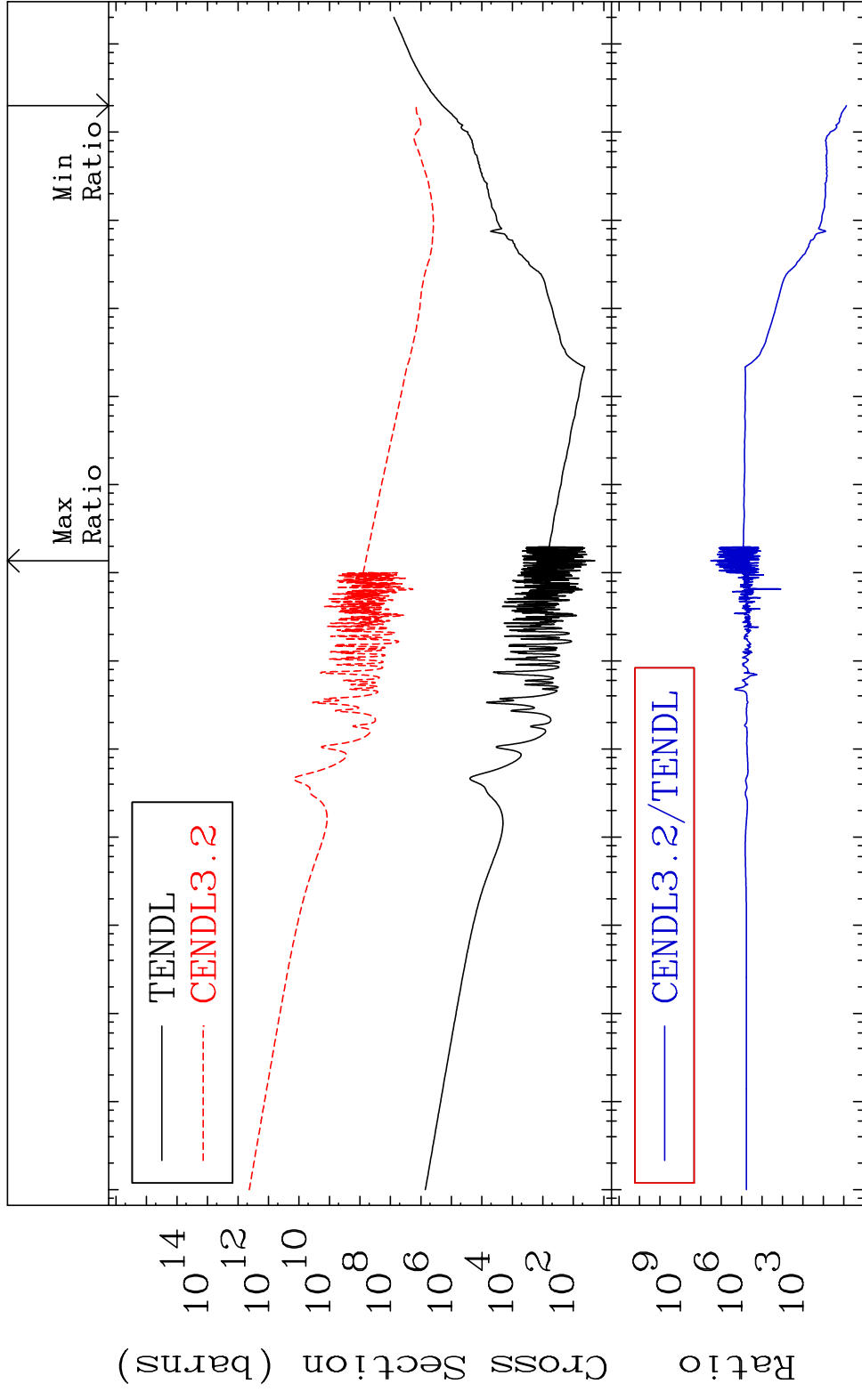
MAT 6325

Kerma elastic Cross Section -87.41 To 630.7 %

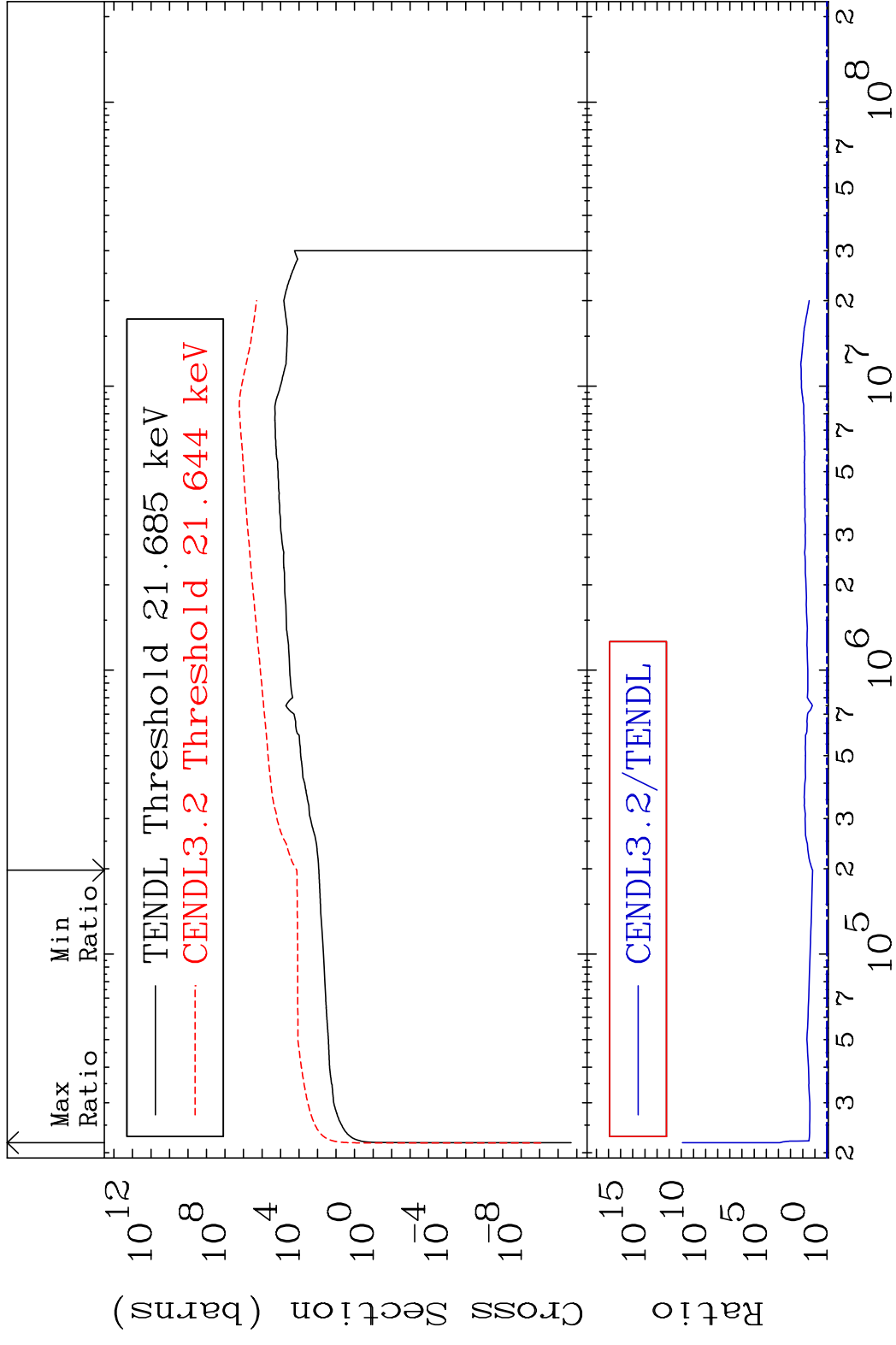
63-Eu-151



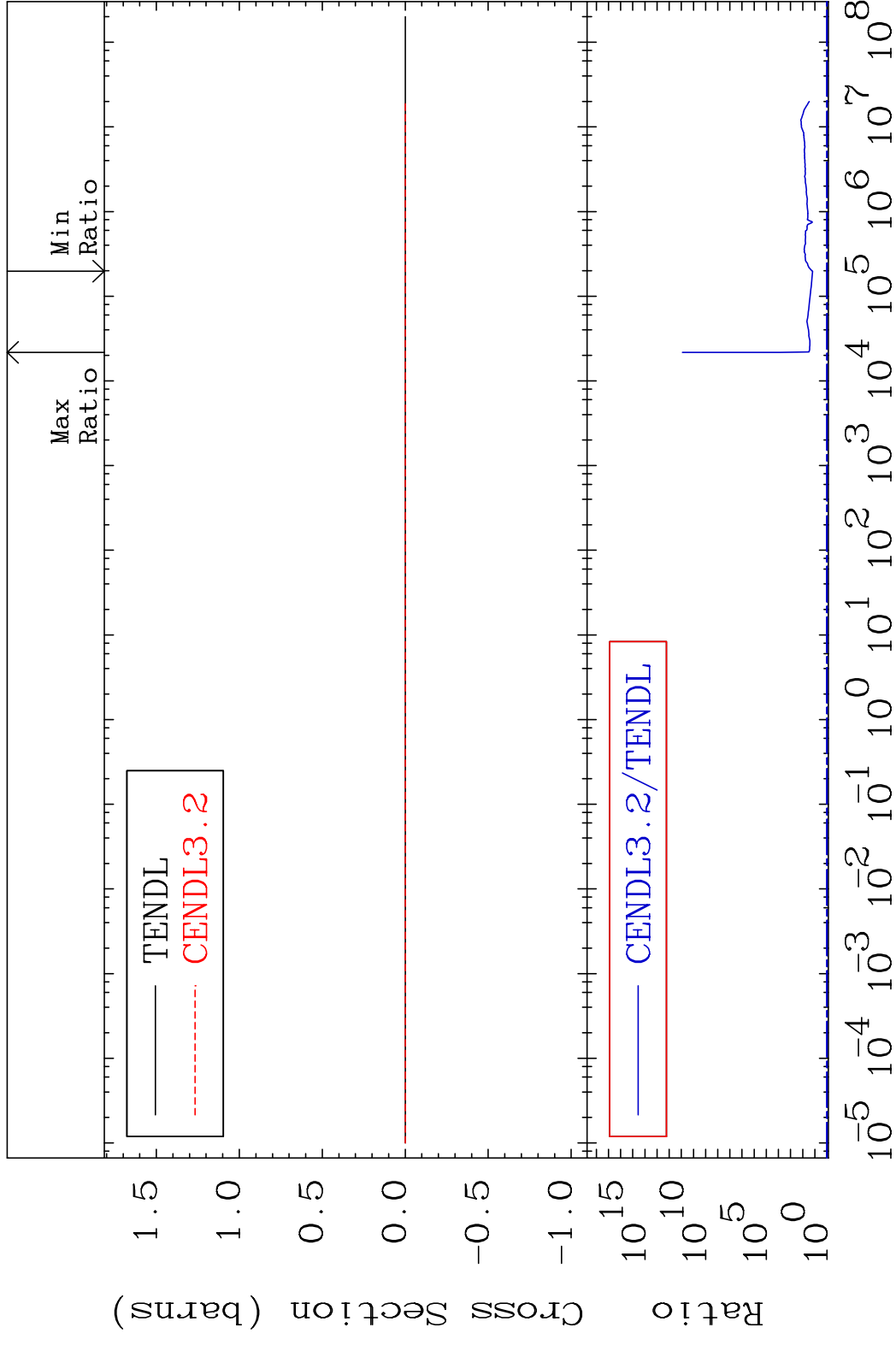
MAT 6325 Kerma non-elastic (all but mt2) 63-Eu-151
 Cross Section 658.5 To 9999. %

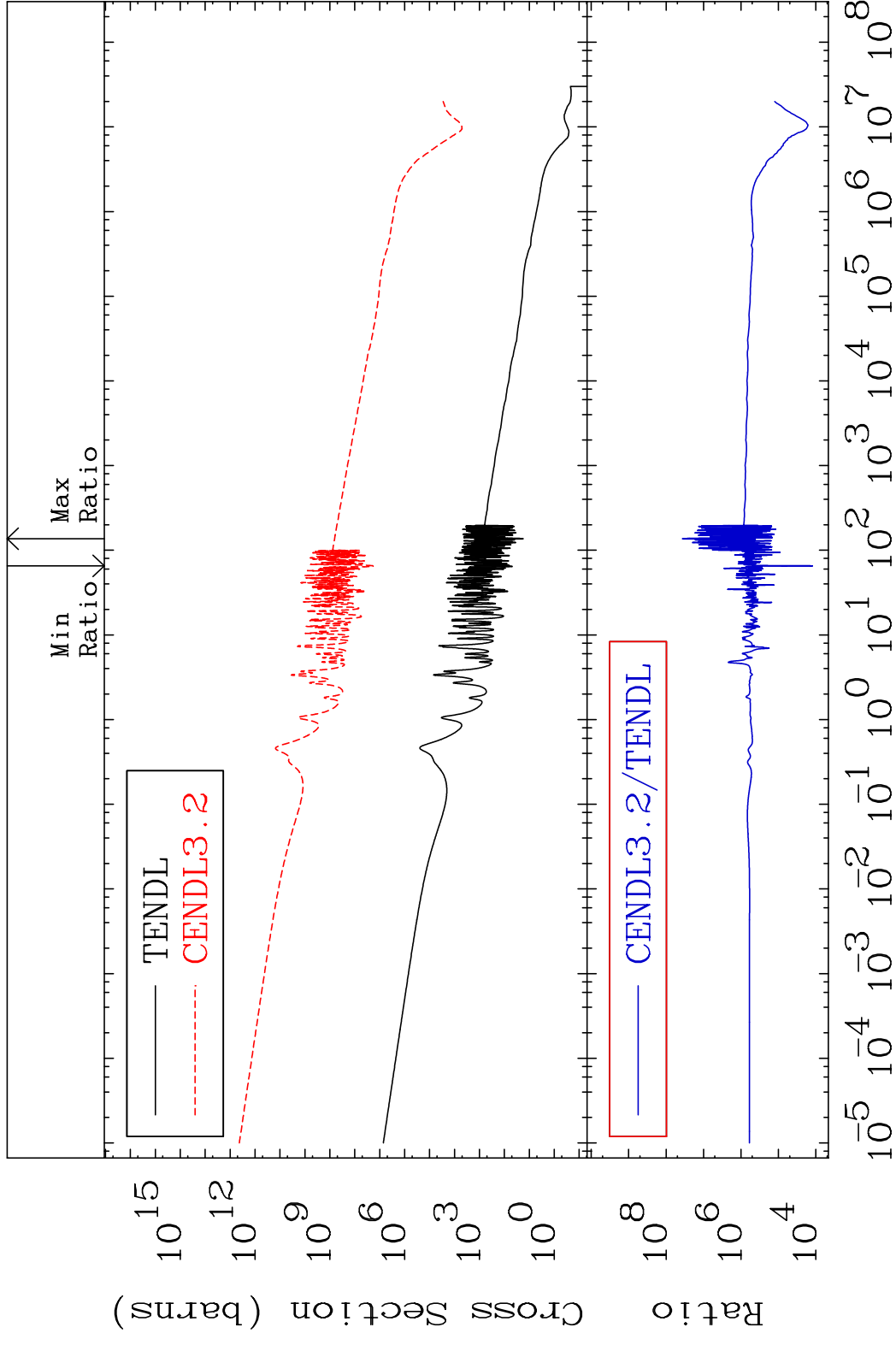


MAT 6325 Kerma inelastic (mt51-91) 63-Eu-151
 Cross Section 1439. To 9999. %

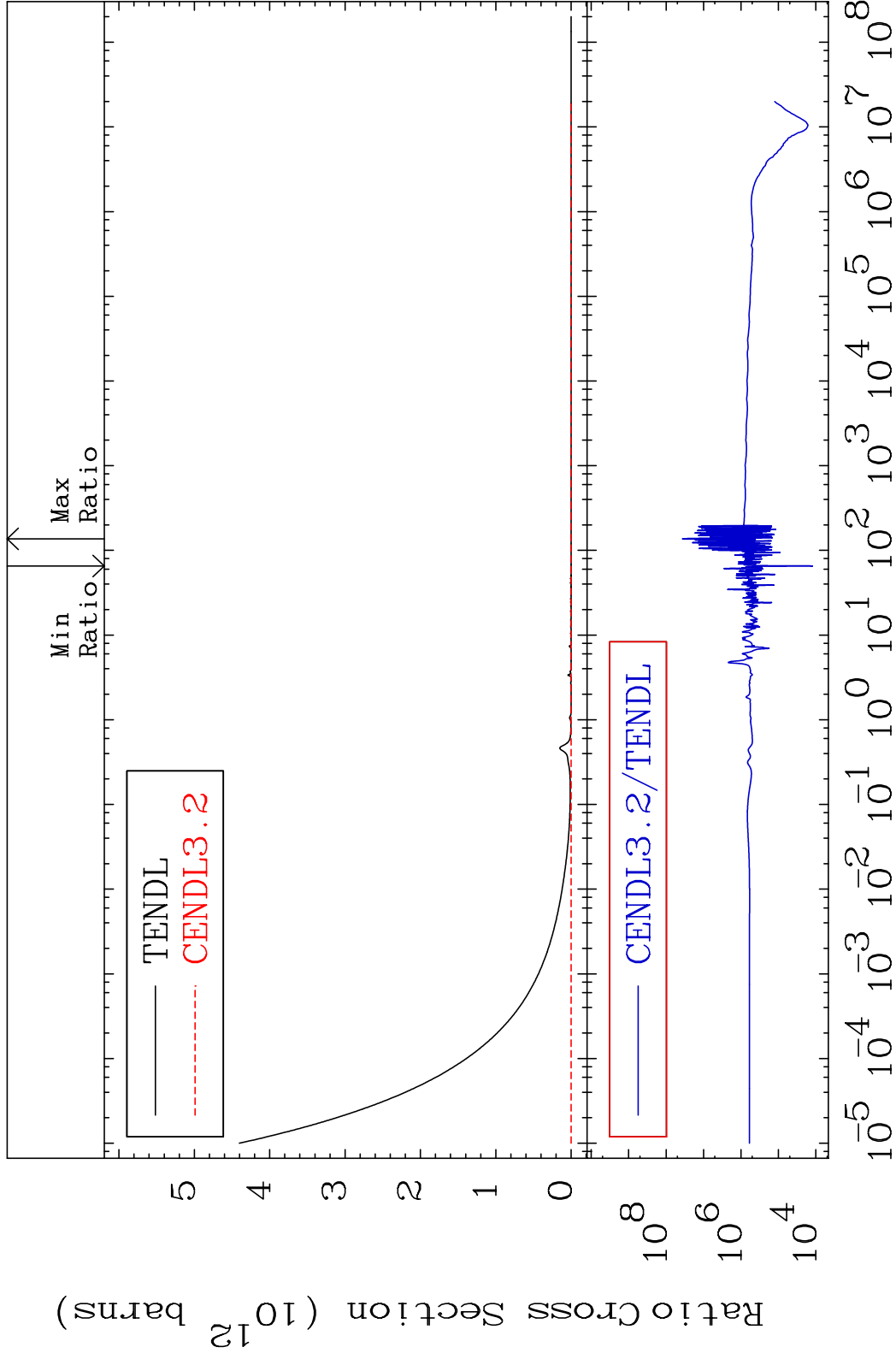


MAT 6325 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-151
 Cross Section 1439. To 9999. %



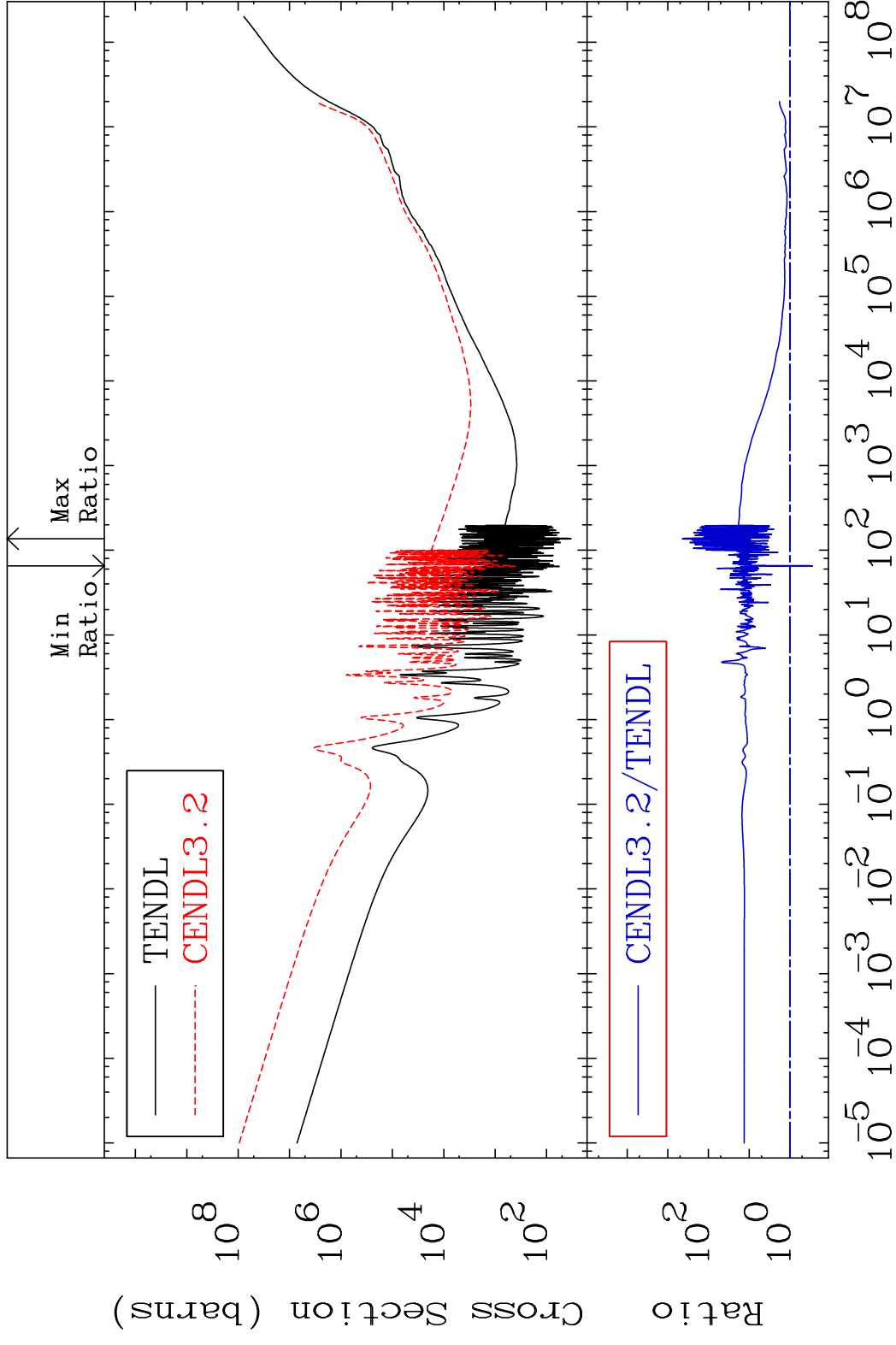


MAT 6325 Total photon (eV-barns) 63-Eu-151
 Cross Section 9999. To 9999. %

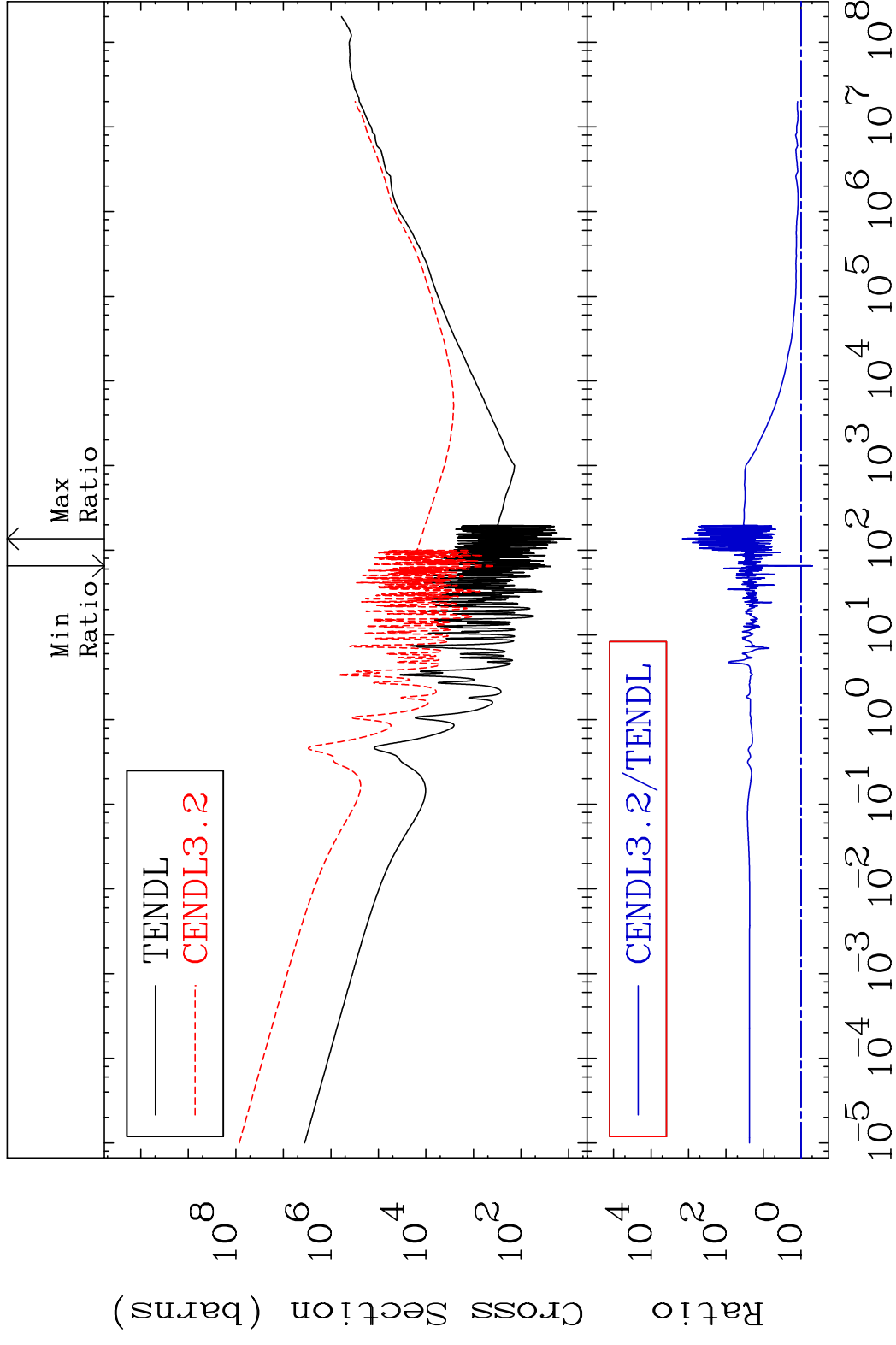


36 Incident Energy (eV) 63-Eu-151

MAT 6325 Total kinematic kerma (high limit) 63-Eu-151
 Cross Section -72.29 To 9999. %



MAT 6325 Dpa total (eV-barns) 63-Eu-151
 Cross Section -51.26 To 9999. %

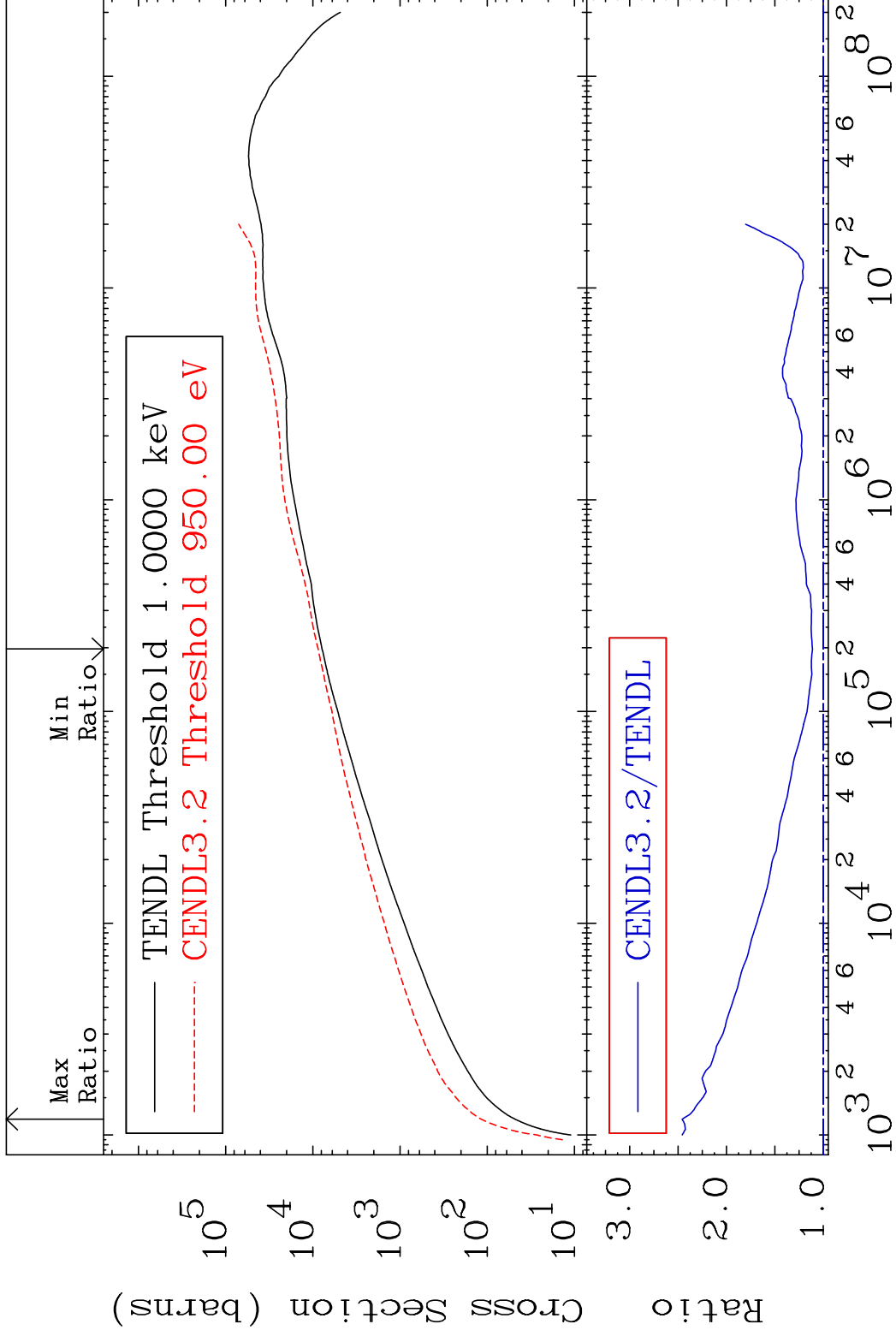


MAT 6325

Dpa elastic (mt2)

63-Eu-151

Cross Section 11.08 To 145.8 %

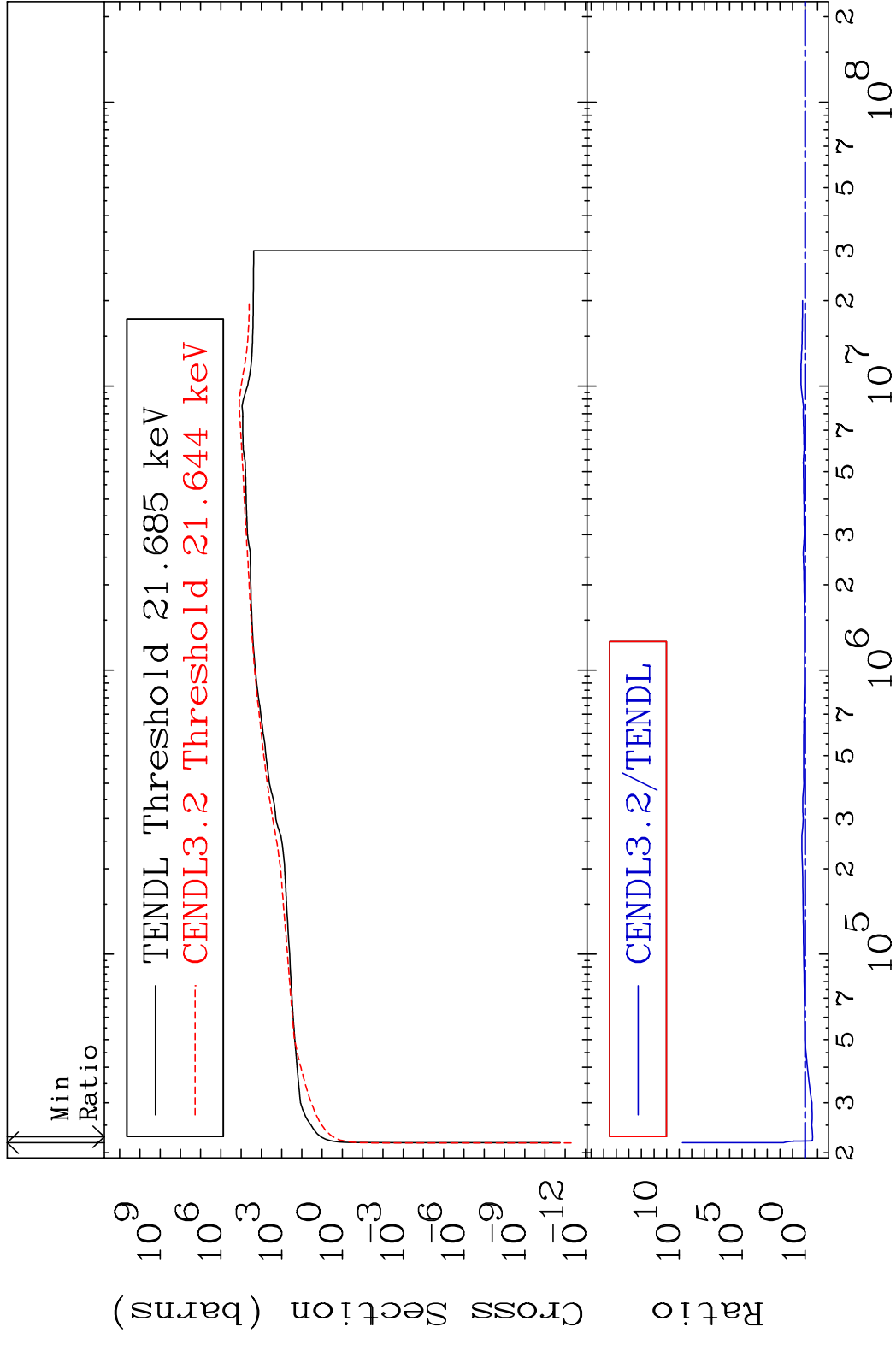


39

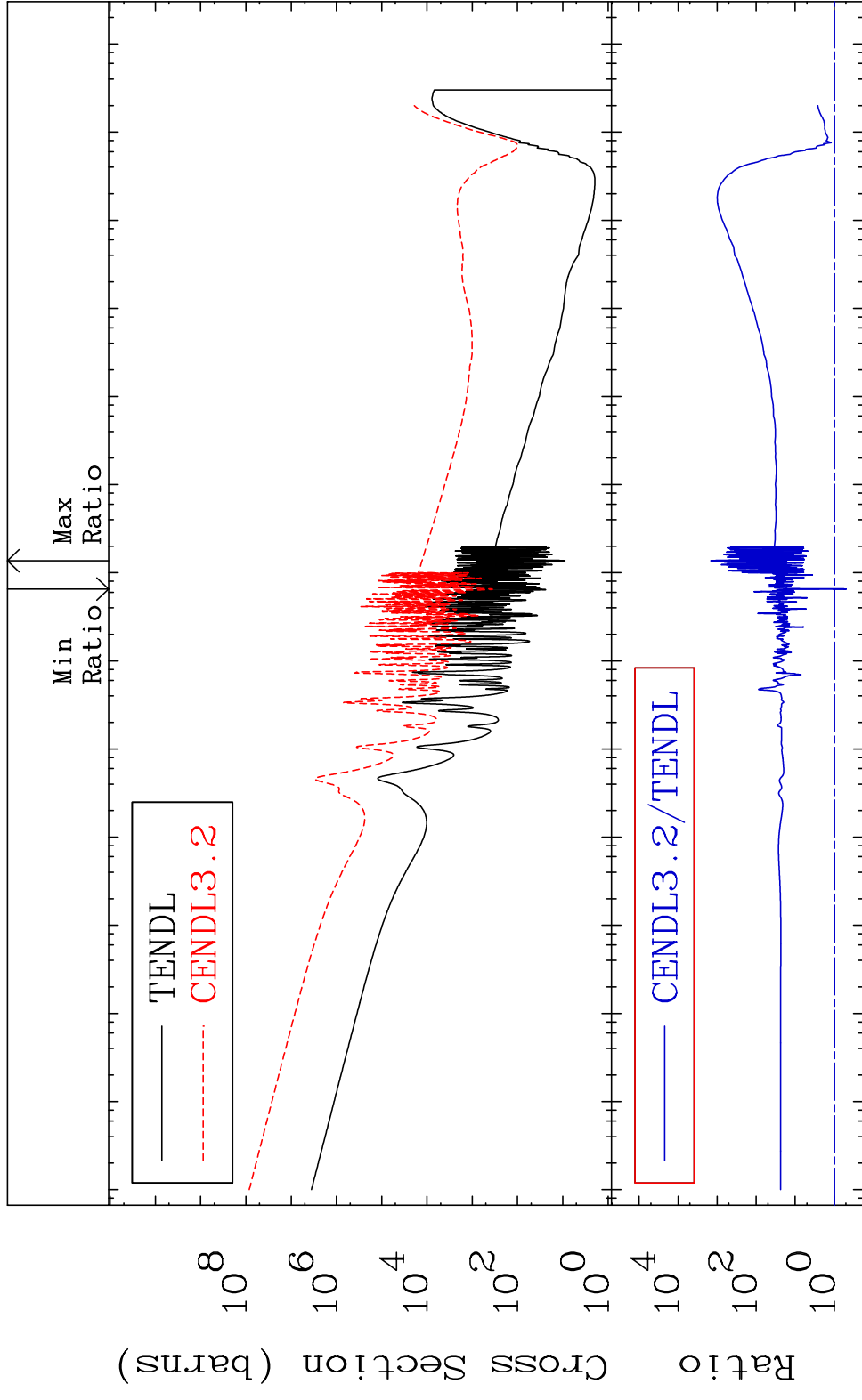
Incident Energy (eV)

63-Eu-151

MAT 6325 Dpa inelastic (mt51-91) 63-Eu-151
 Cross Section -74.57 To 9999. %



MAT 6325 Dpa disappearance (mt102 -120) 63-Eu-151
 Cross Section -51.26 To 9999. %

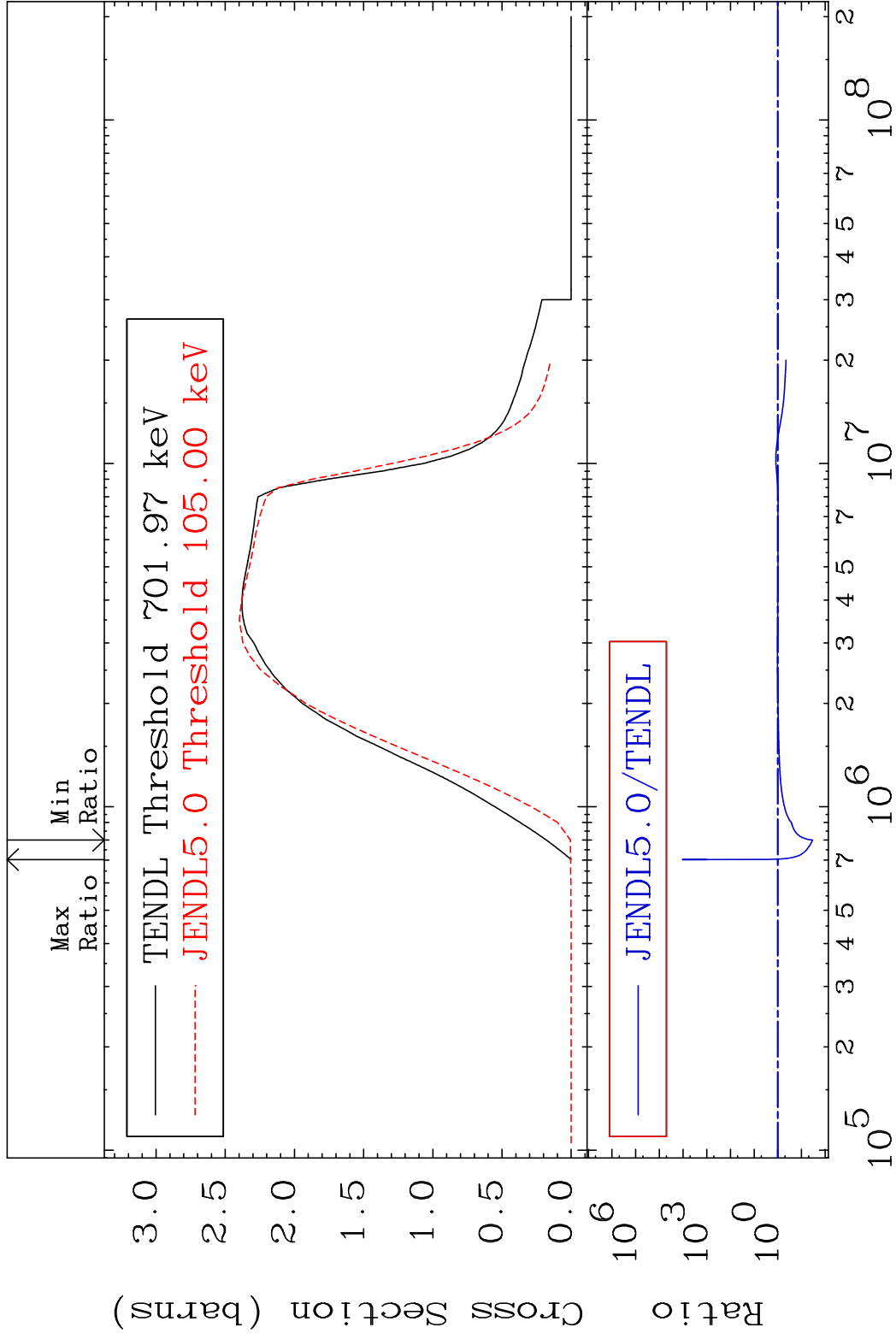


MAT 6325

(n,n') Continuum

63-Eu-151

Cross Section -96.58 To 9999. %



42

Incident Energy (eV)

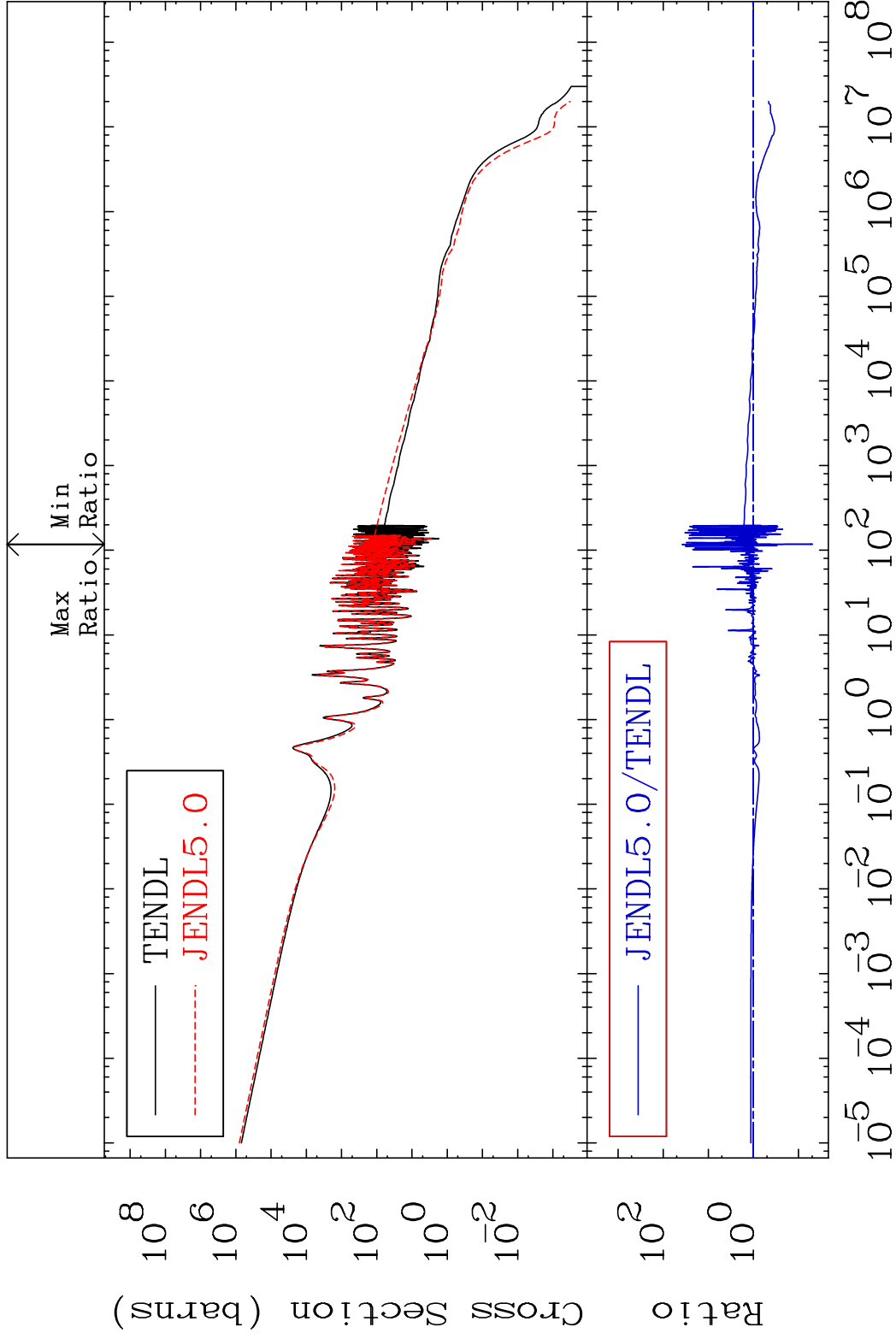
63-Eu-151

MAT 6325

(n, γ)

63-Eu-151

Cross Section -95.11 To 3653. %

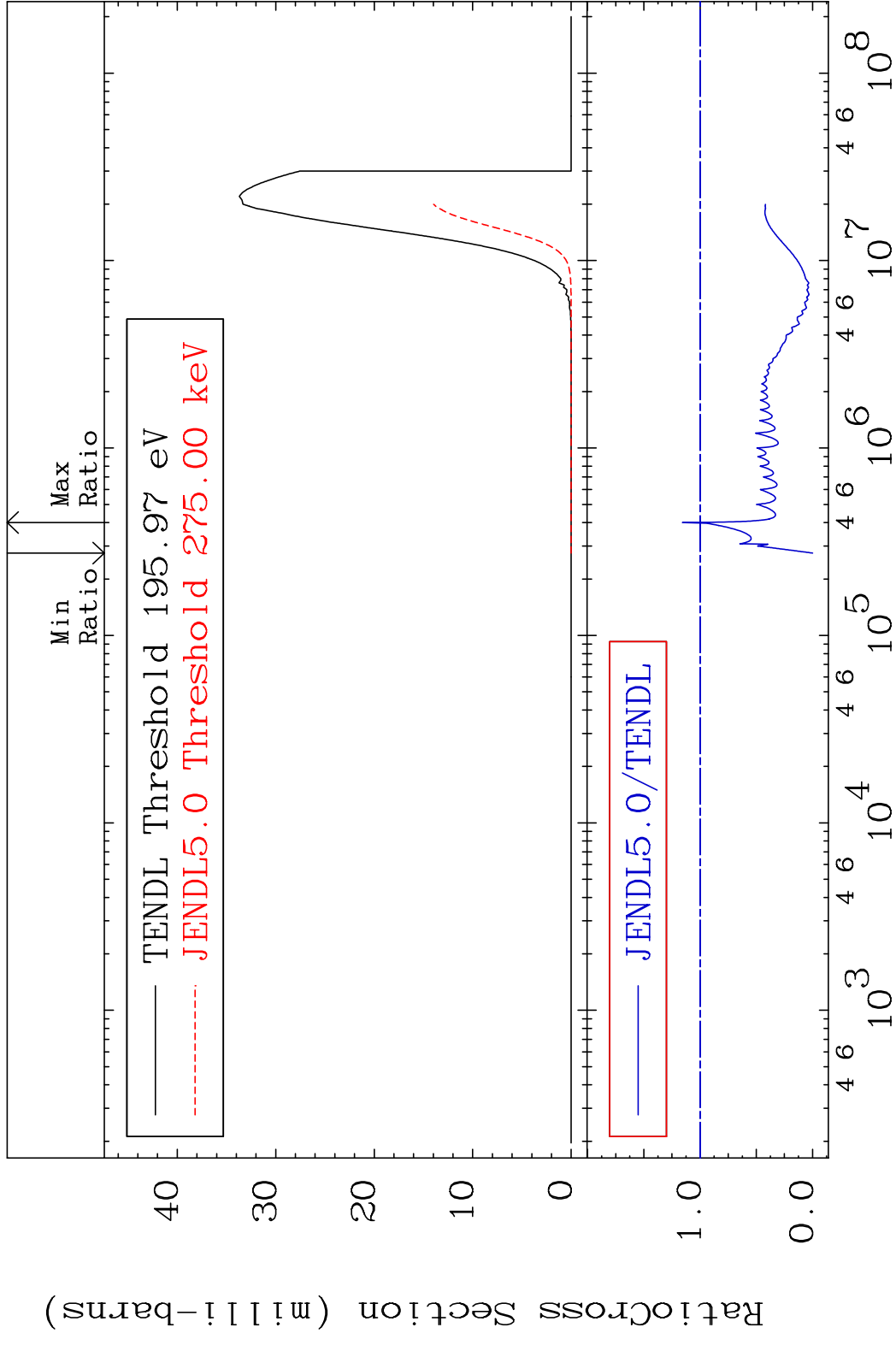


43

Incident Energy (eV)

63-Eu-151

MAT 6325 (n, p) 63-Eu-151
 Cross Section -100.0 To 15.76 %

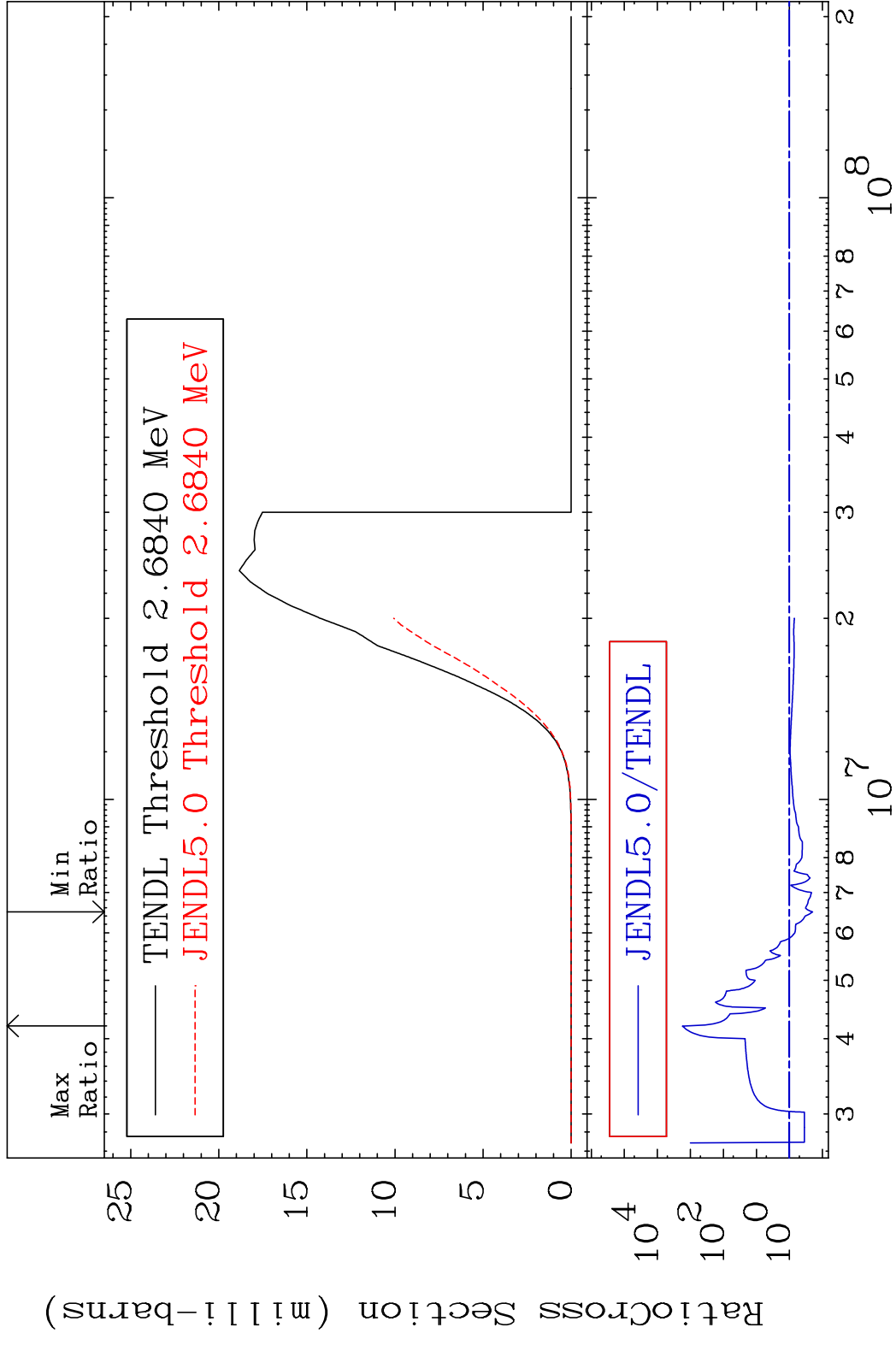


MAT 6325

(n, d)

63-Eu-151

Cross Section -80.10 To 9999. %

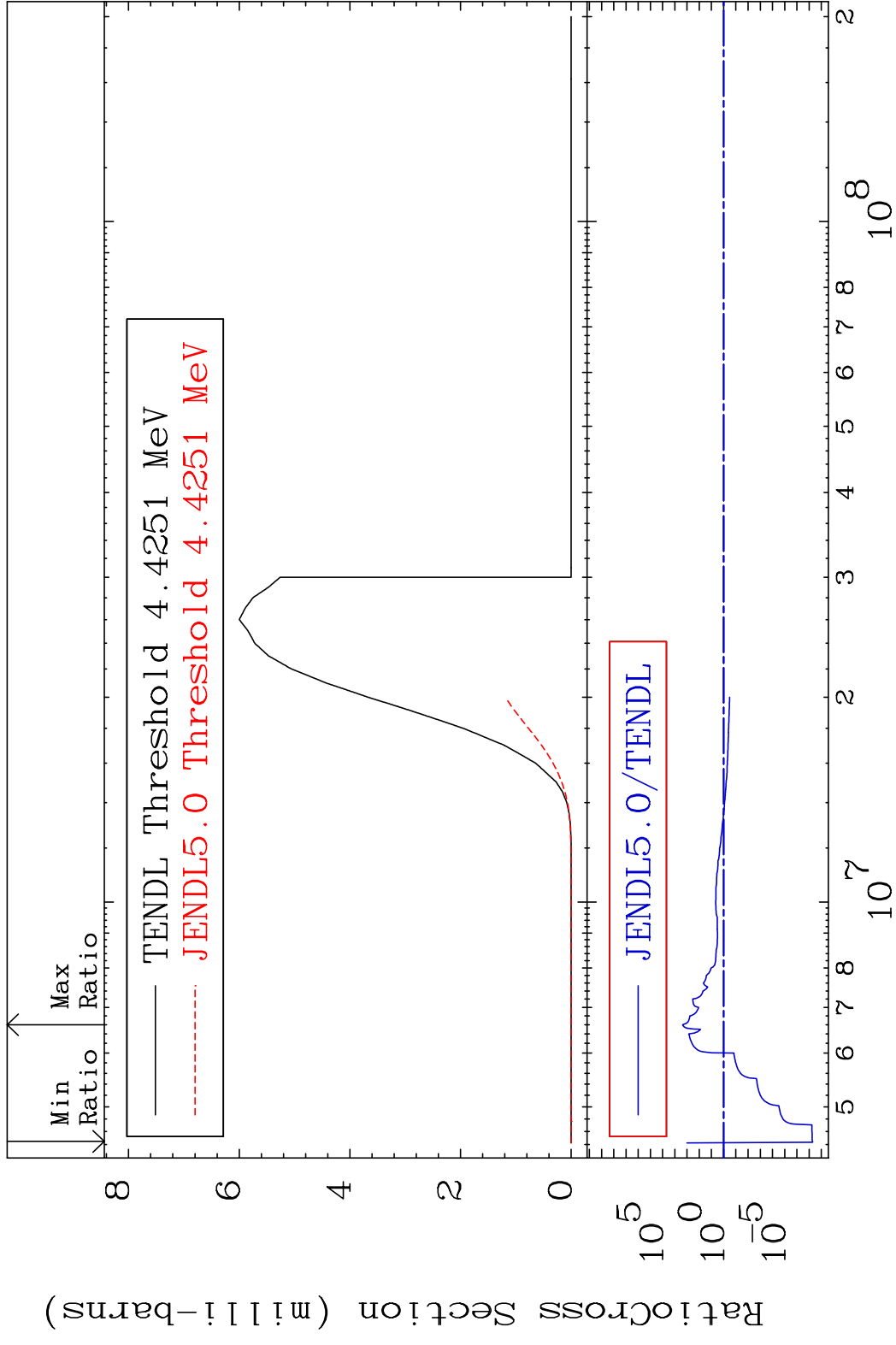


45

Incident Energy (eV)

63-Eu-151

MAT 6325 (n, t) 63-Eu-151
 Cross Section -100.0 To 9999. %

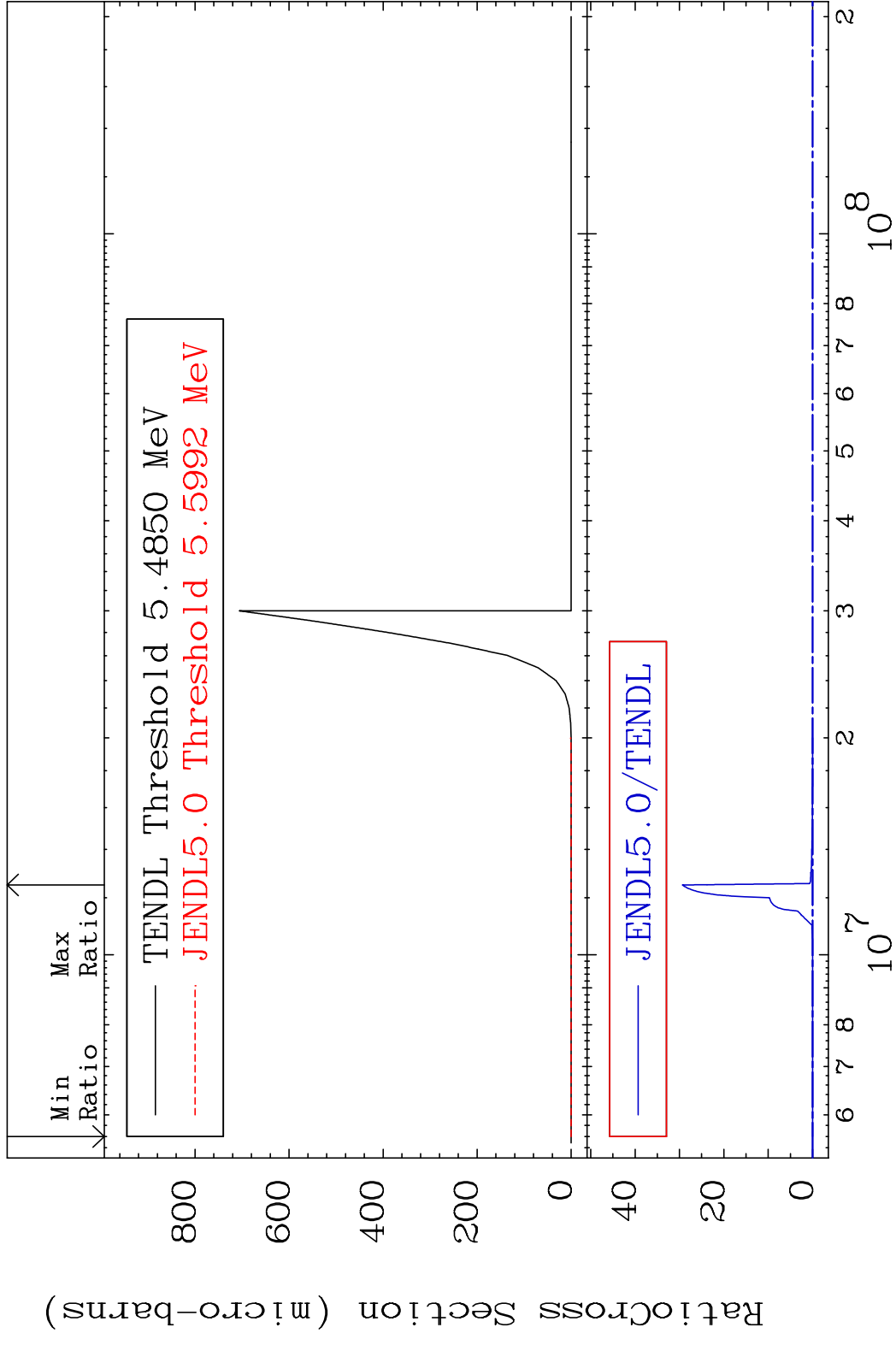


MAT 6325

(n, He-3)

63-Eu-151

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

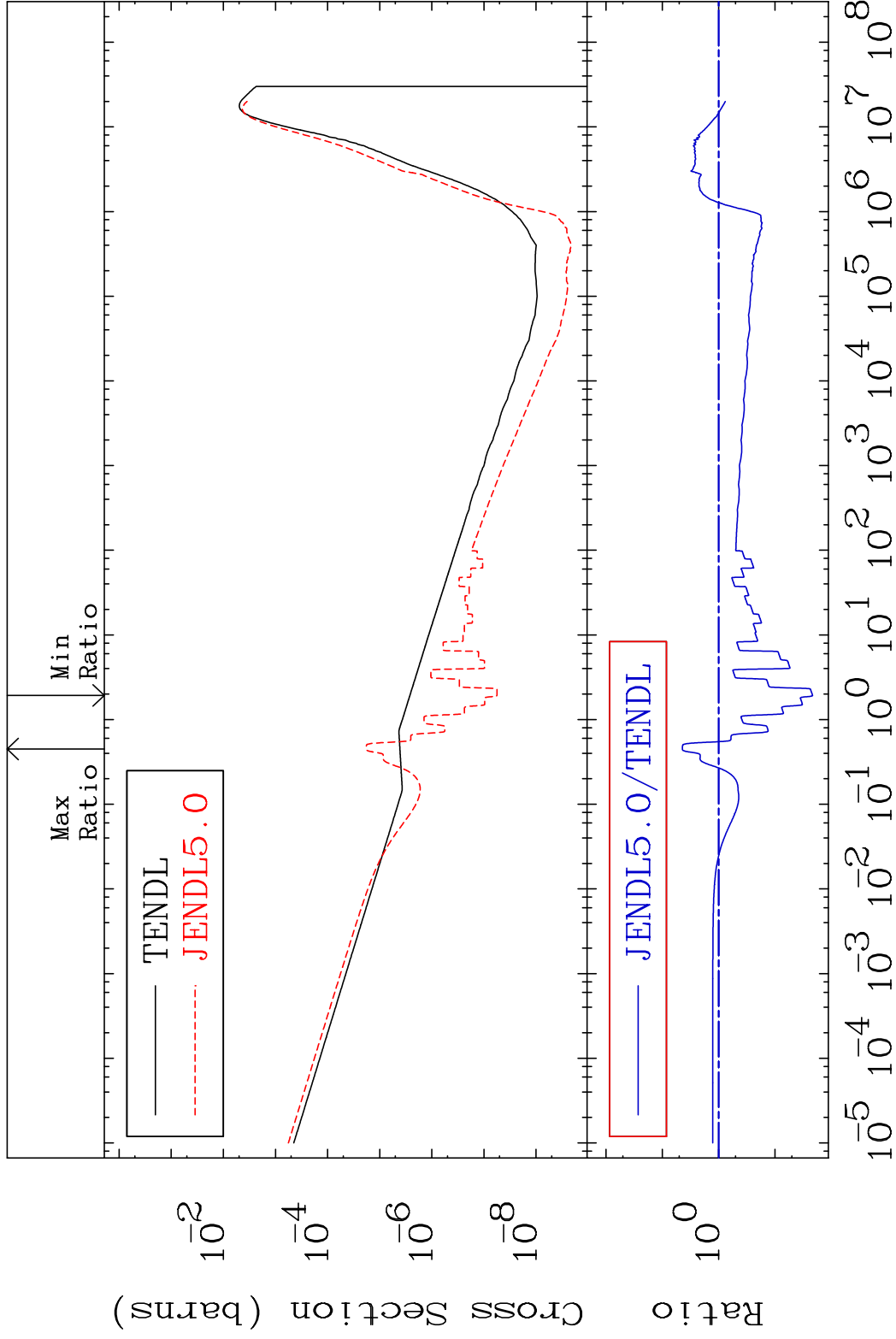
63-Eu-151

MAT 6325

(n, α)

63-Eu-151

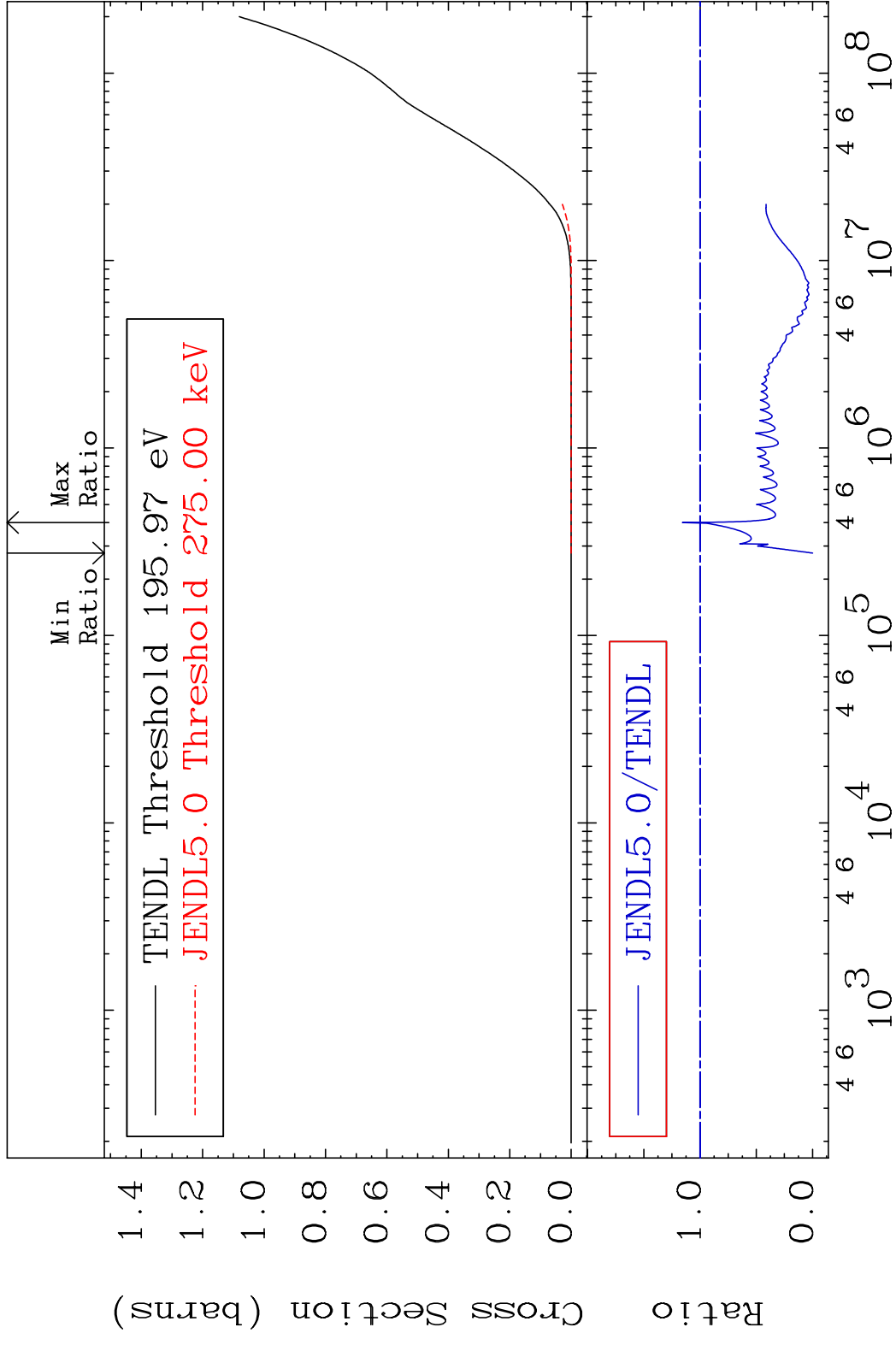
Cross Section -97.86 To 339.7 %



48

Incident Energy (eV)

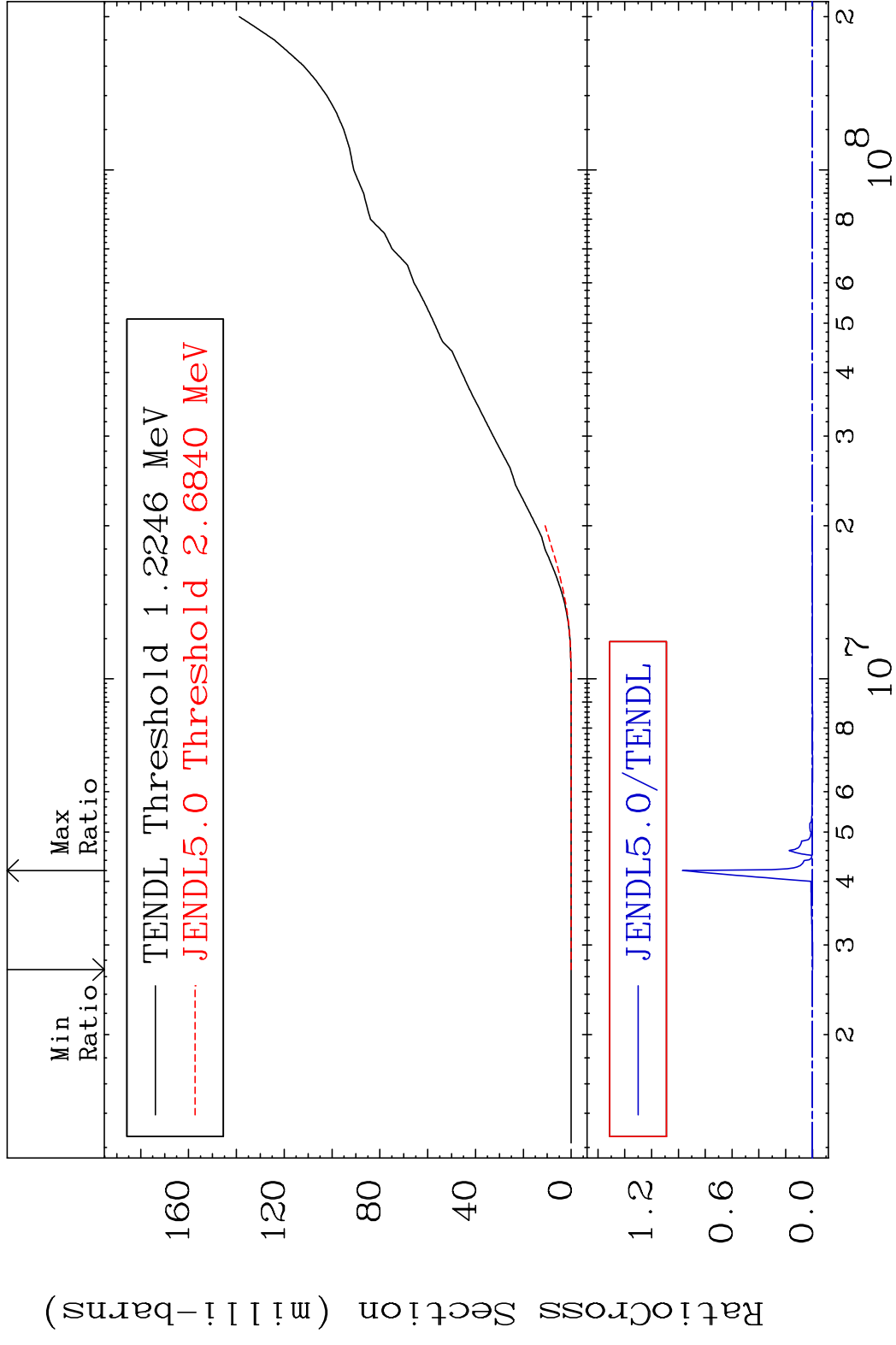
63-Eu-151



MAT 6325

Deuterium Production 63-Eu-151

Cross Section -100.0 To 9999. %

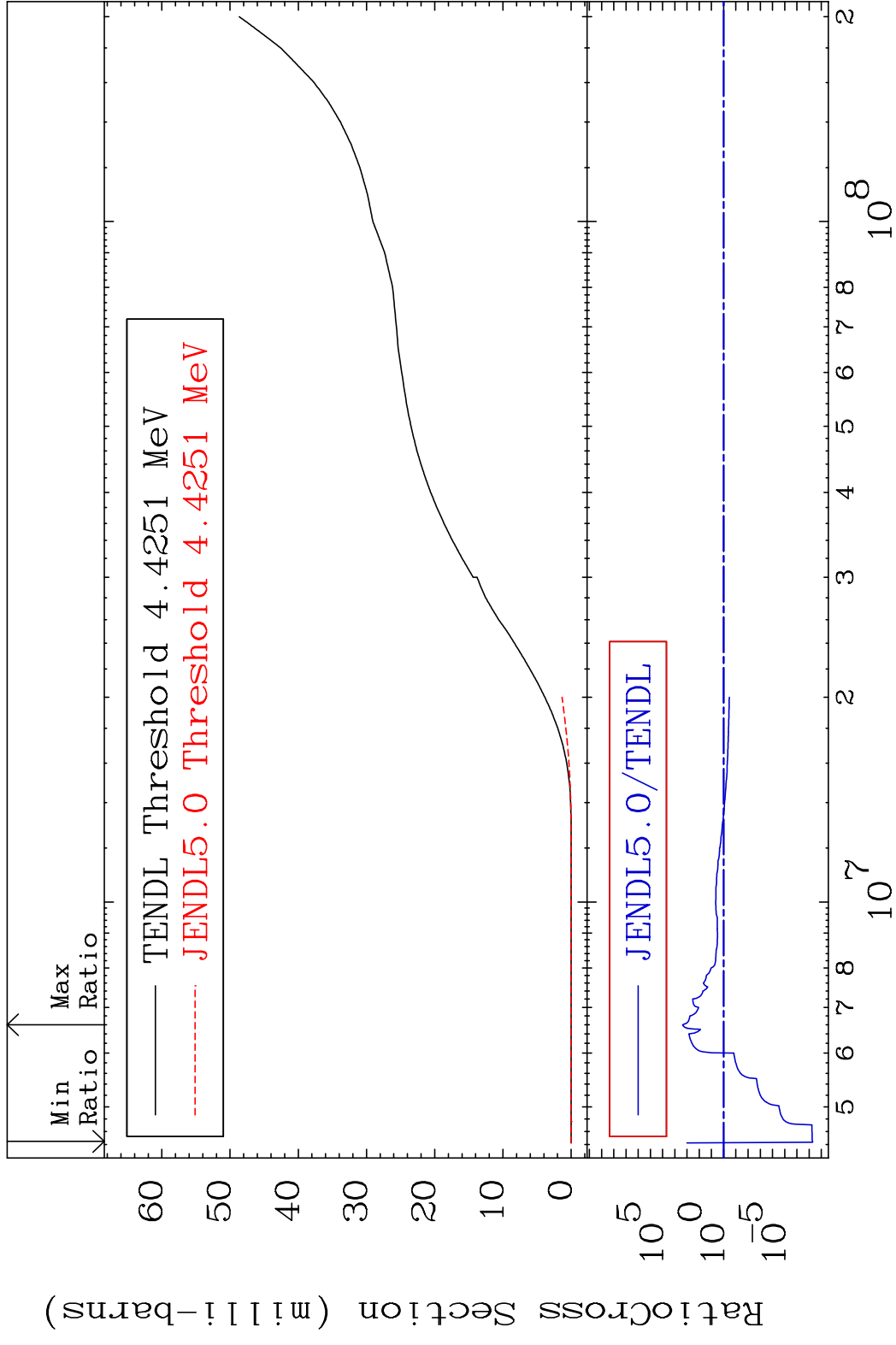


50

Incident Energy (eV)

63-Eu-151

MAT 6325 Tritium Production 63-Eu-151
 Cross Section -100.0 To 9999. %

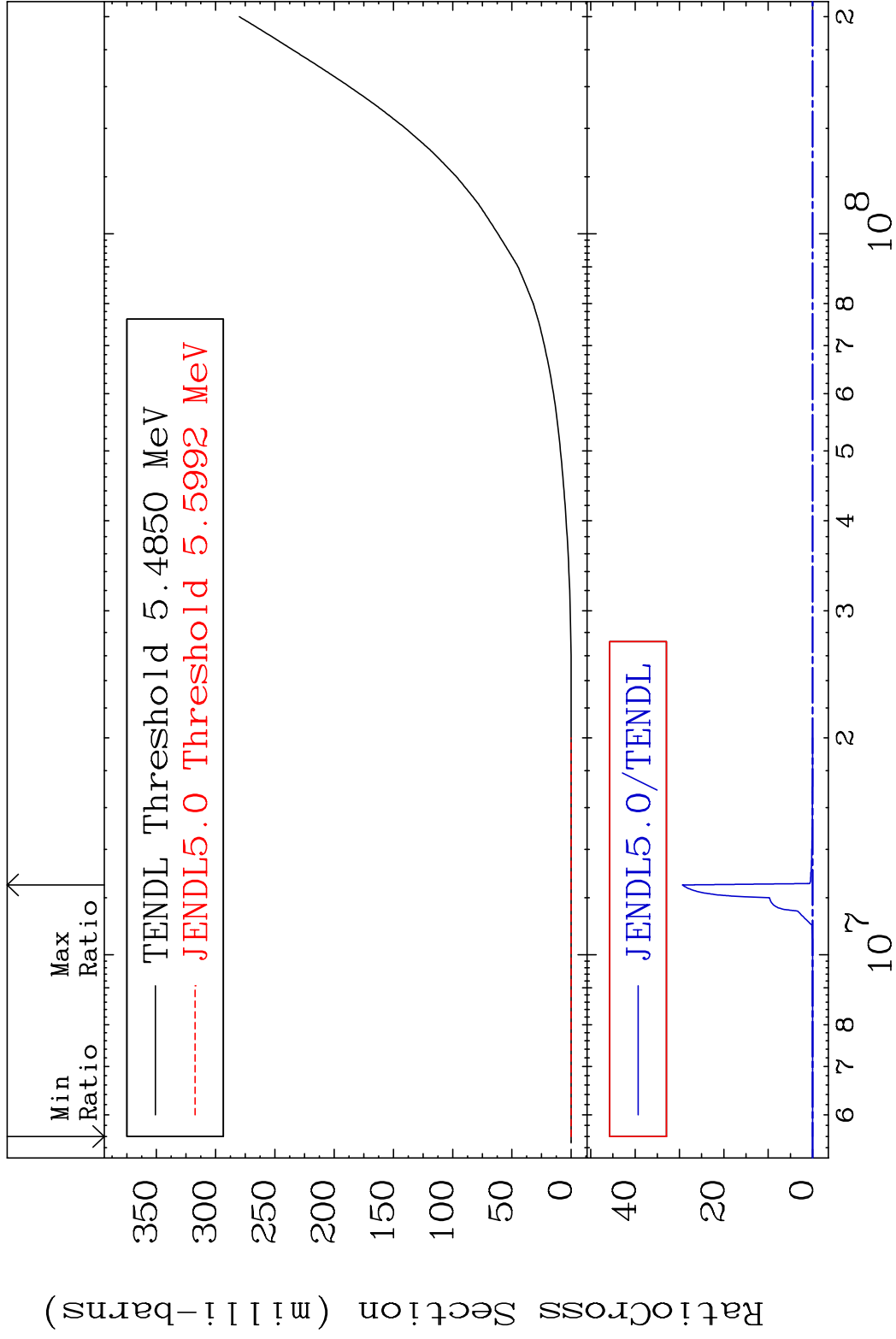


MAT 6325

He-3 Production

63-Eu-151

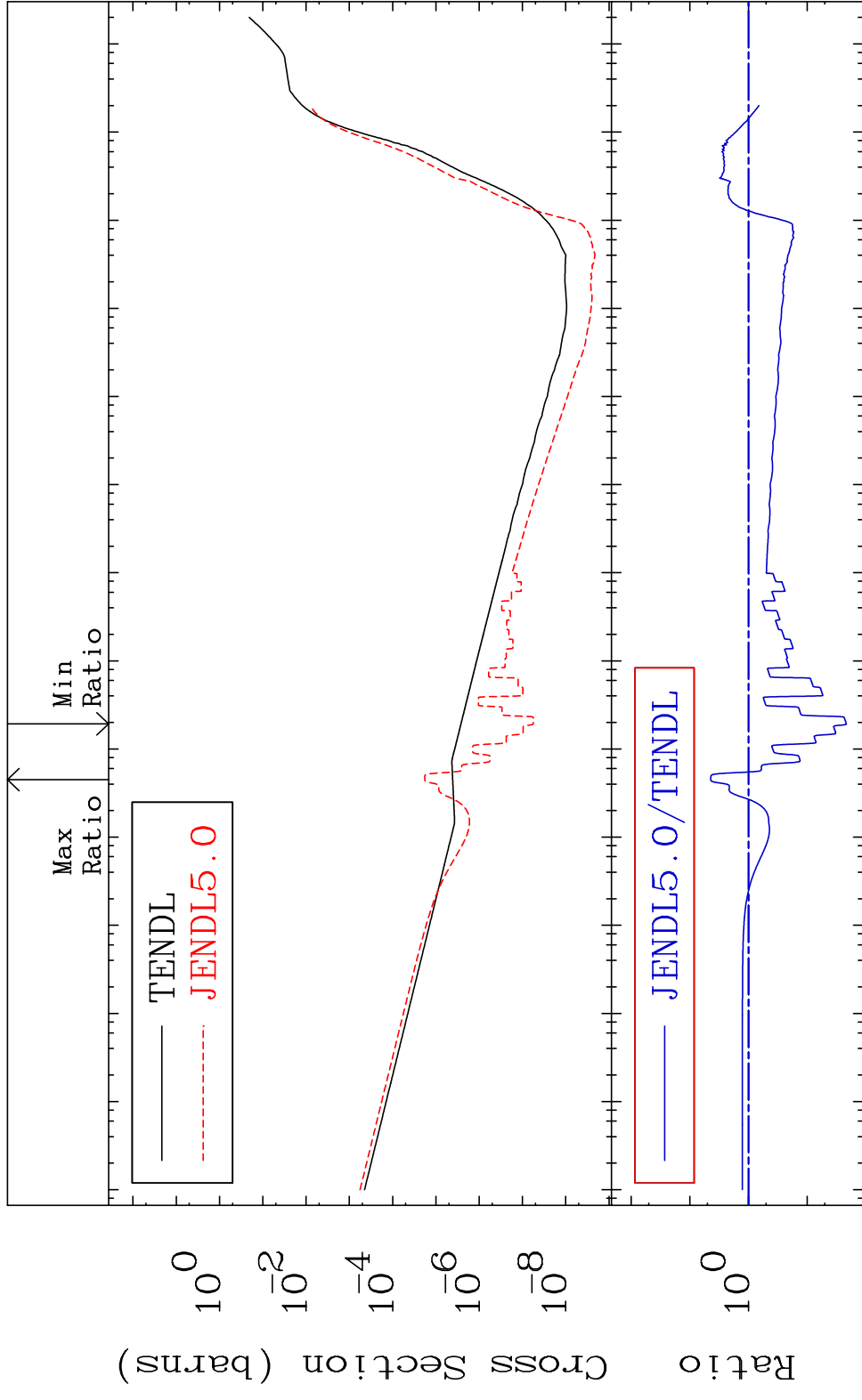
Cross Section -100.0 To 9999. %



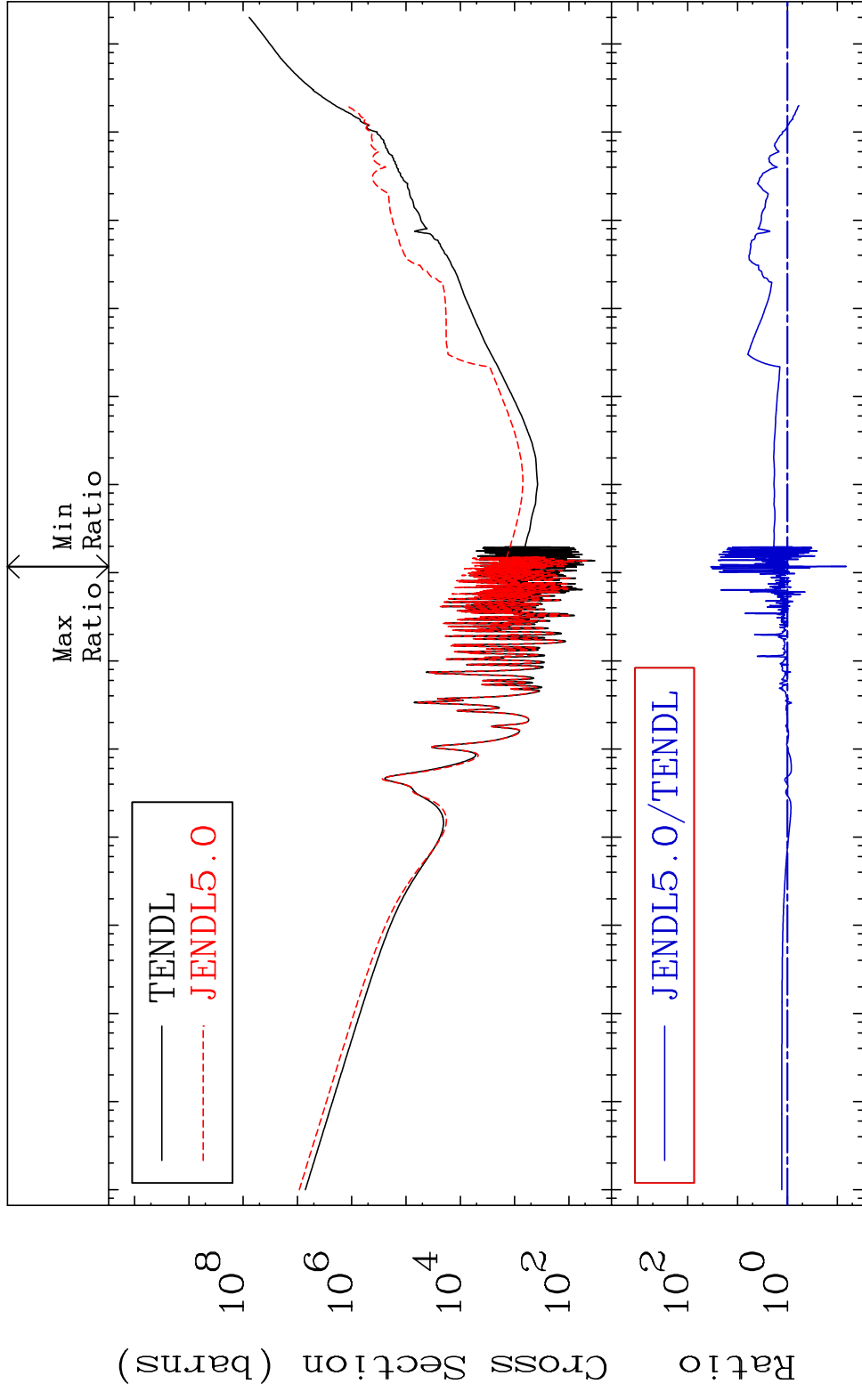
MAT 6325

He-4 Production
Cross Section -97.86 To 339.7 %

63-Eu-151

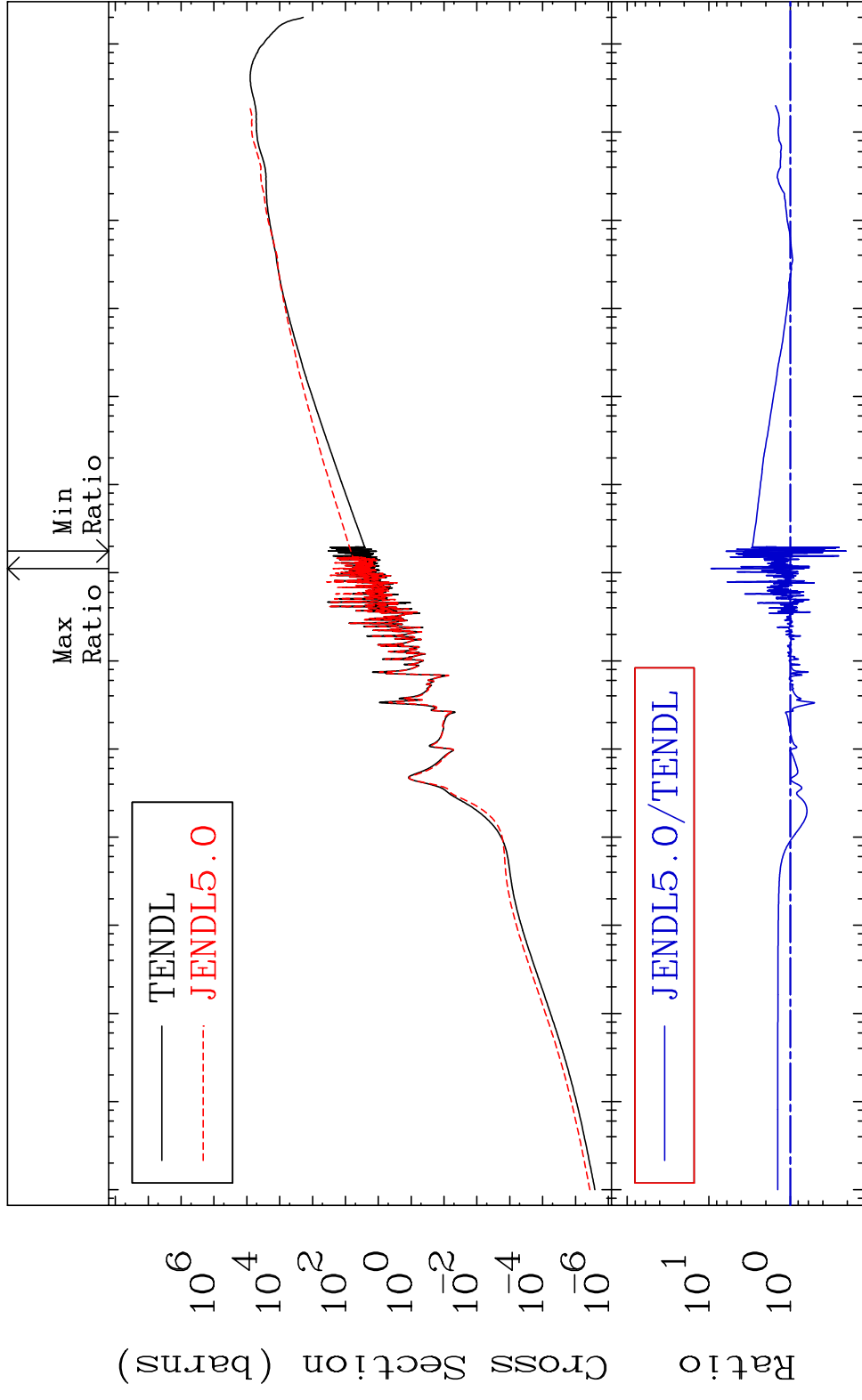


MAT 6325 Kerma total (eV-barns) 63-Eu-151
 Cross Section -93.41 To 3361. %



MAT 6325

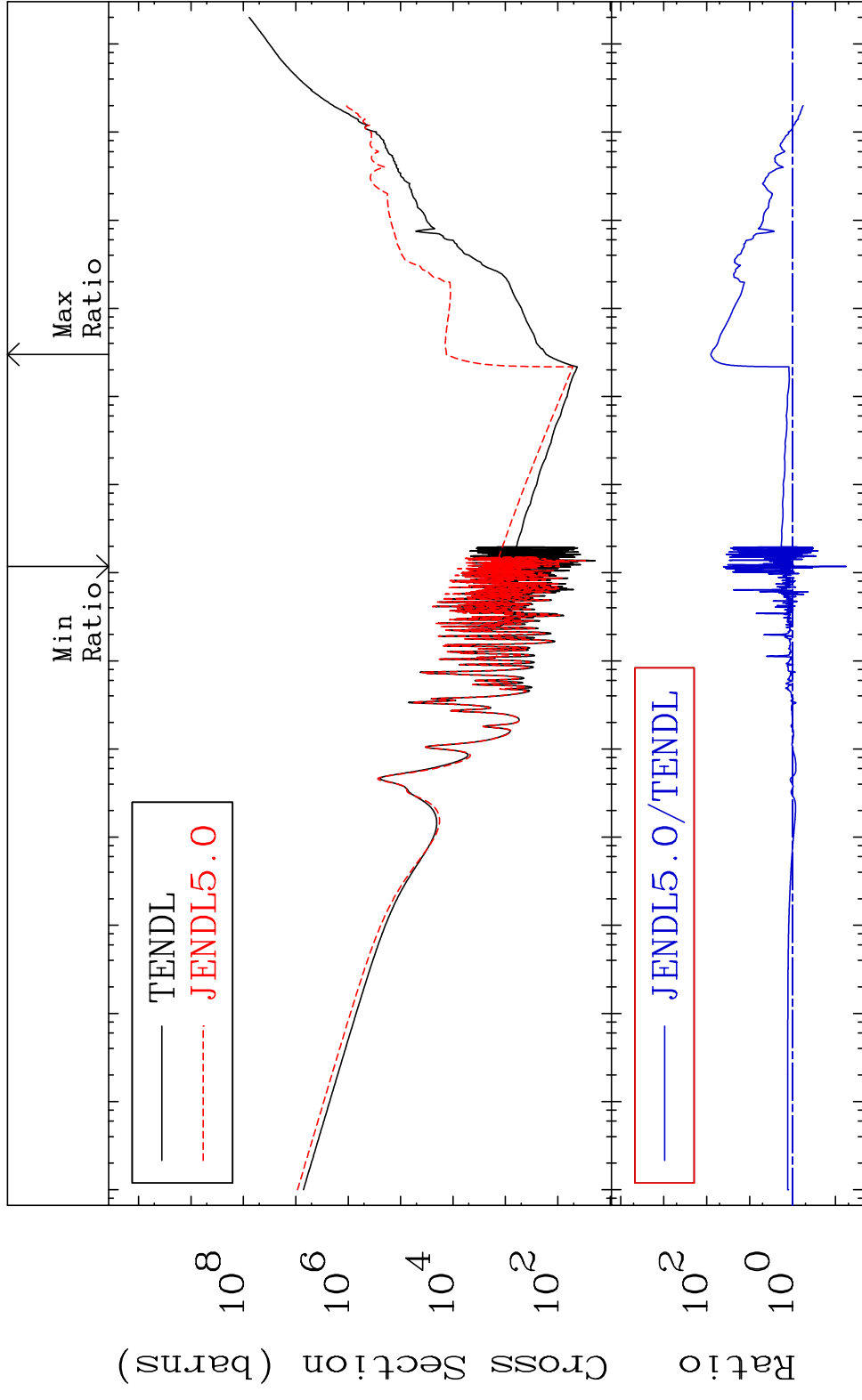
Kerma elastic Cross Section -79.40 To 847.2 %
63-Eu-151



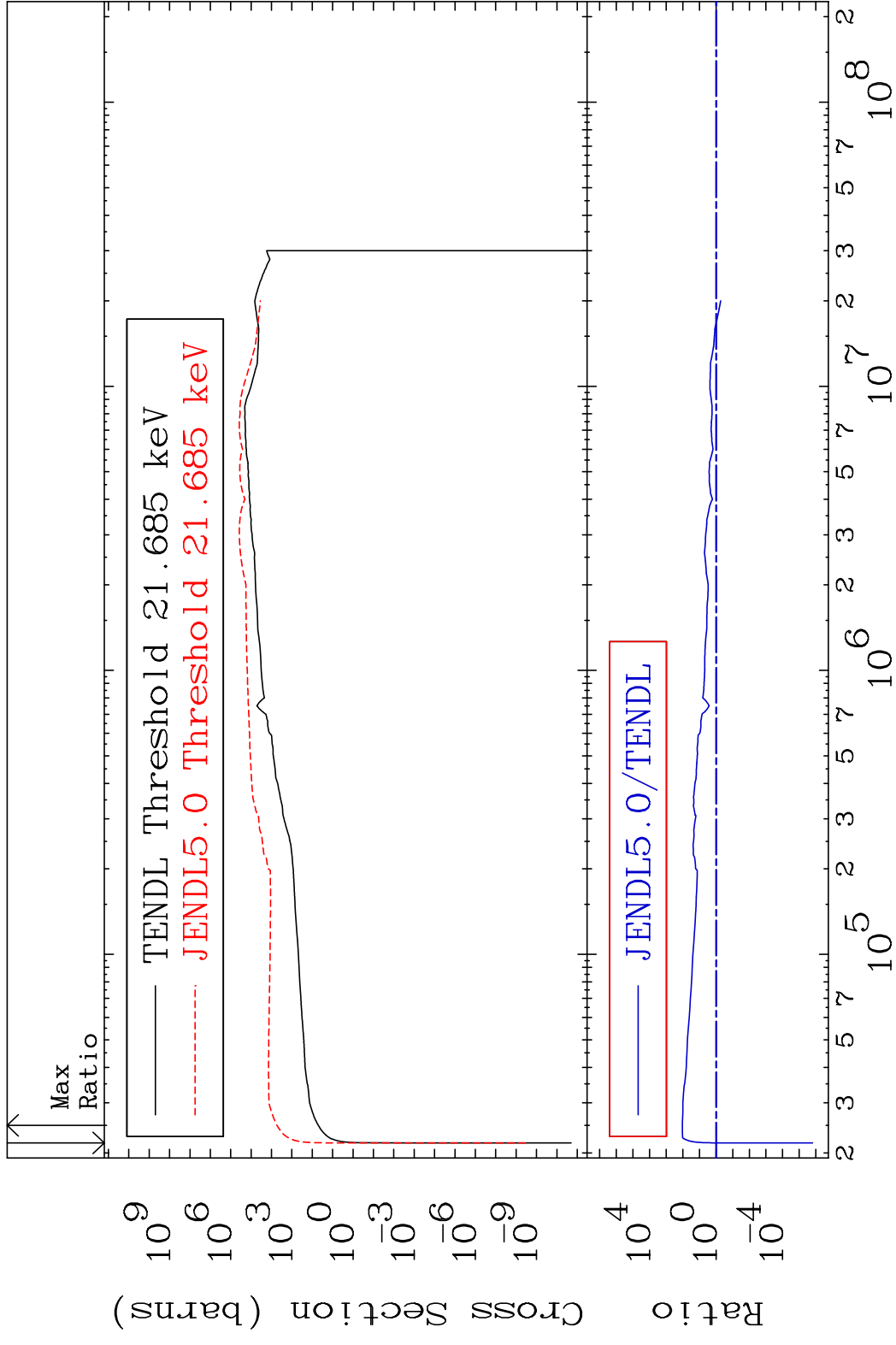
Cross Section (barns)
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^{-6}
Ratio
 10^1
 10^0

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

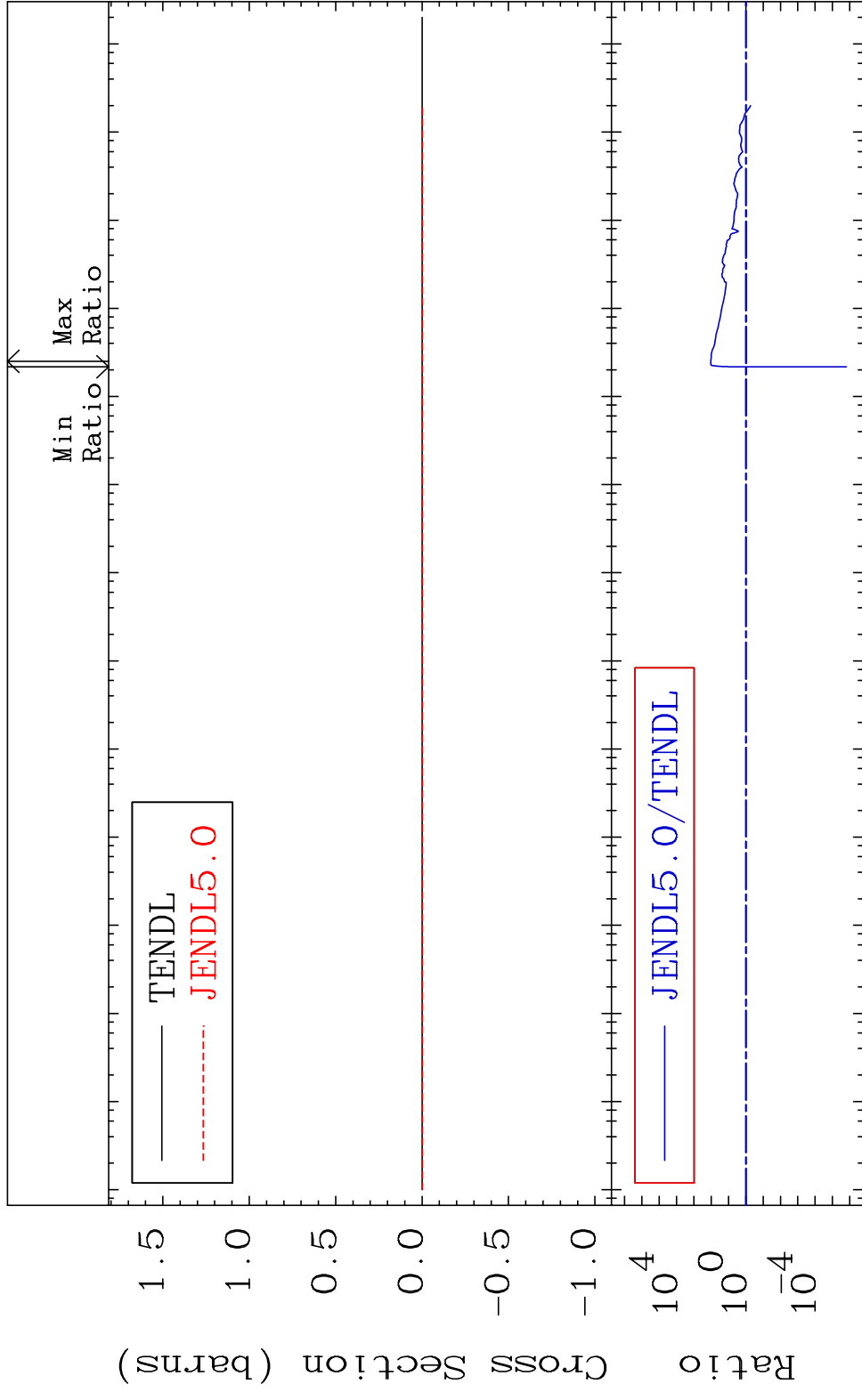
MAT 6325 Kerma non-elastic (all but mt2) 63-Eu-151
 Cross Section -94.39 To 7935. %



MAT 6325 Kerma inelastic (mt51-91) 63-Eu-151
 Cross Section -100.0 To 9999. %

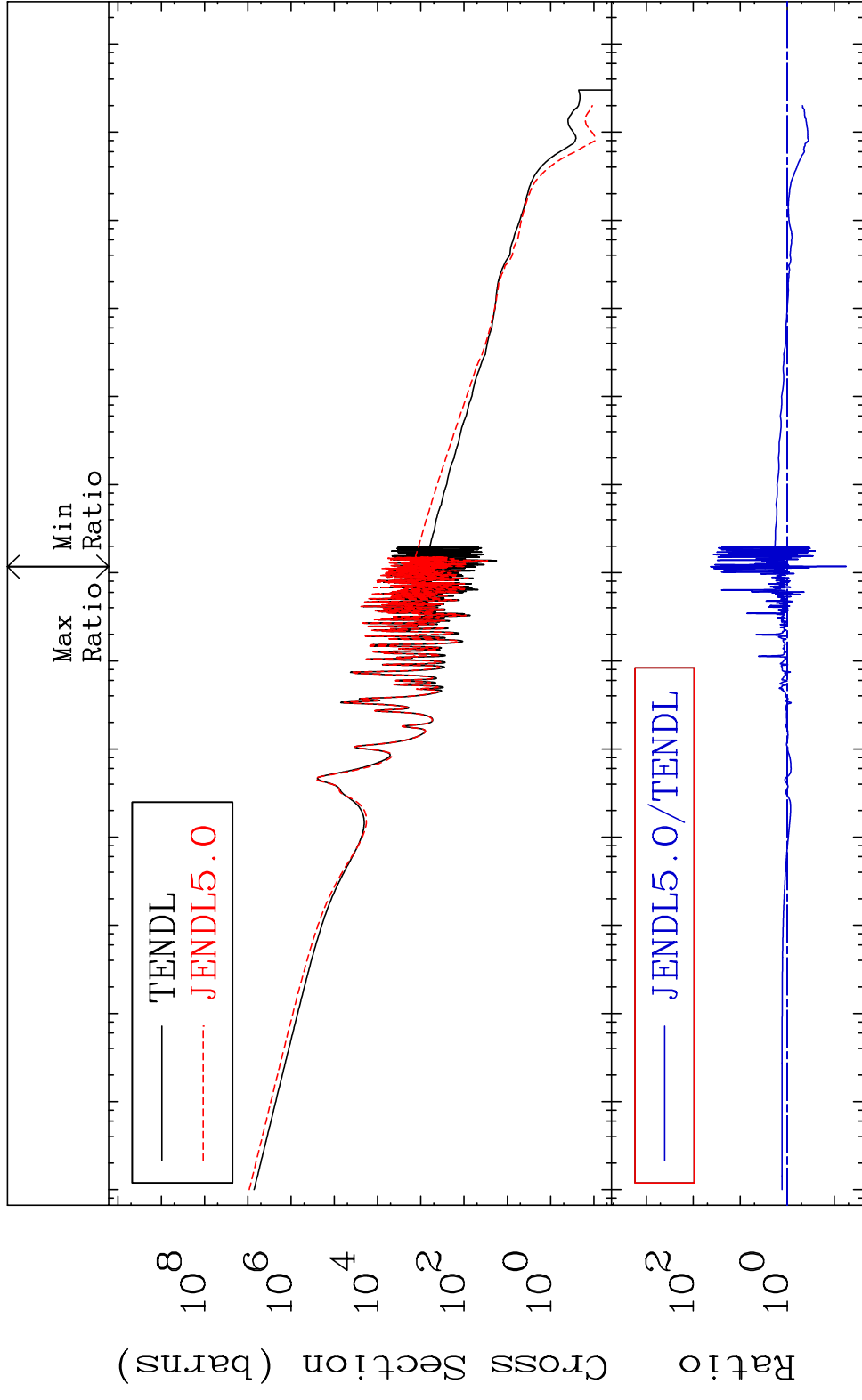


MAT 6325 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-151
 Cross Section -100.0 To 9999. %



MAT 6325

Kerma capture (mt102) 63-Eu-151
Cross Section -94.45 To 4159. %



10⁸ 10⁶ 10⁴ 10² 10⁰ 10⁻² 10⁻⁴ 10⁻⁶ 10⁻⁸
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

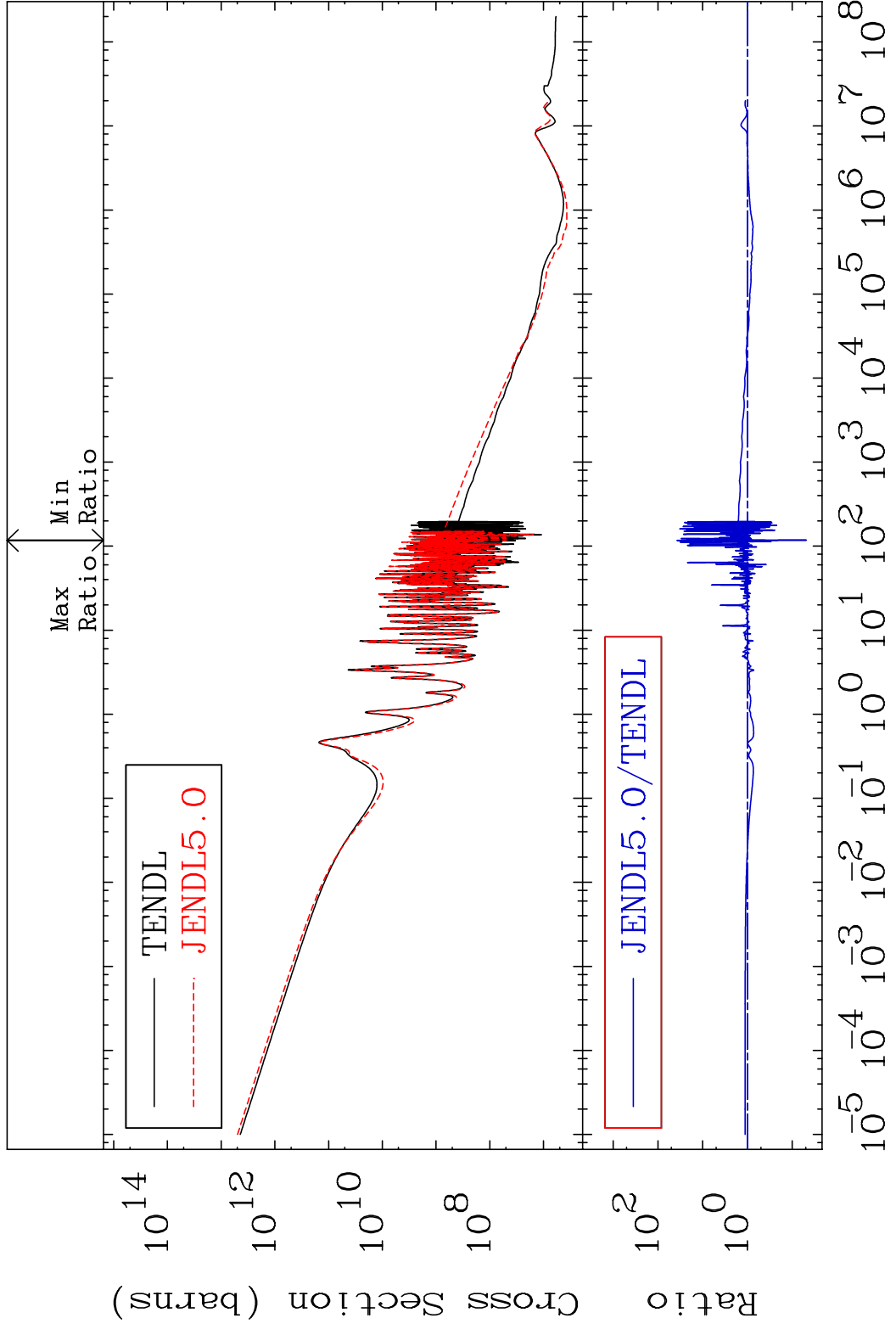
59

Incident Energy (eV)

63-Eu-151

MAT 6325

Total photon (eV-barns) 63-Eu-151
Cross Section -95.17 To 3609. %

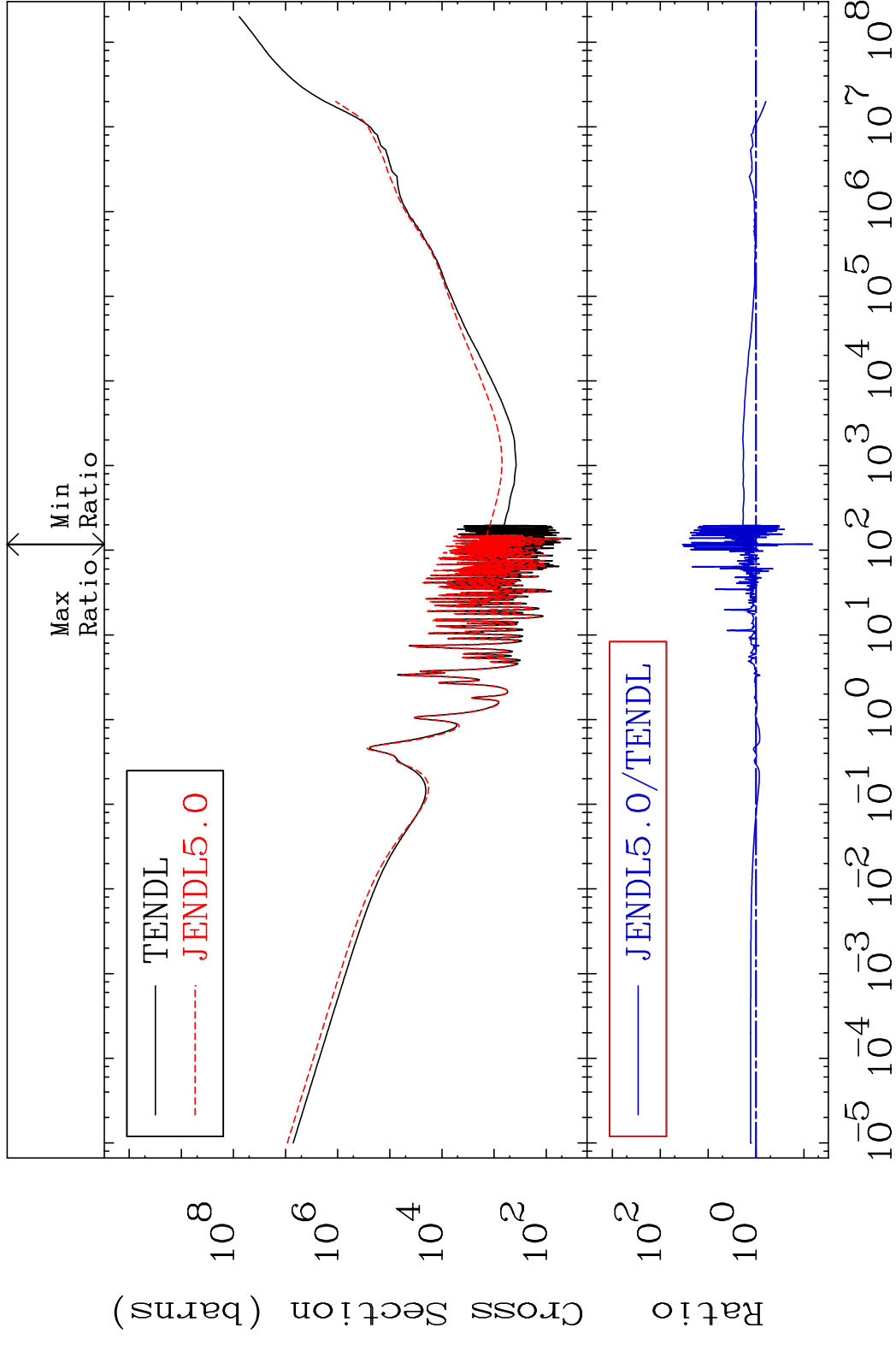


60

Incident Energy (eV)

63-Eu-151

MAT 6325 Total kinematic kerma (high limit) 63-Eu-151
 Cross Section -93.42 To 3361. %

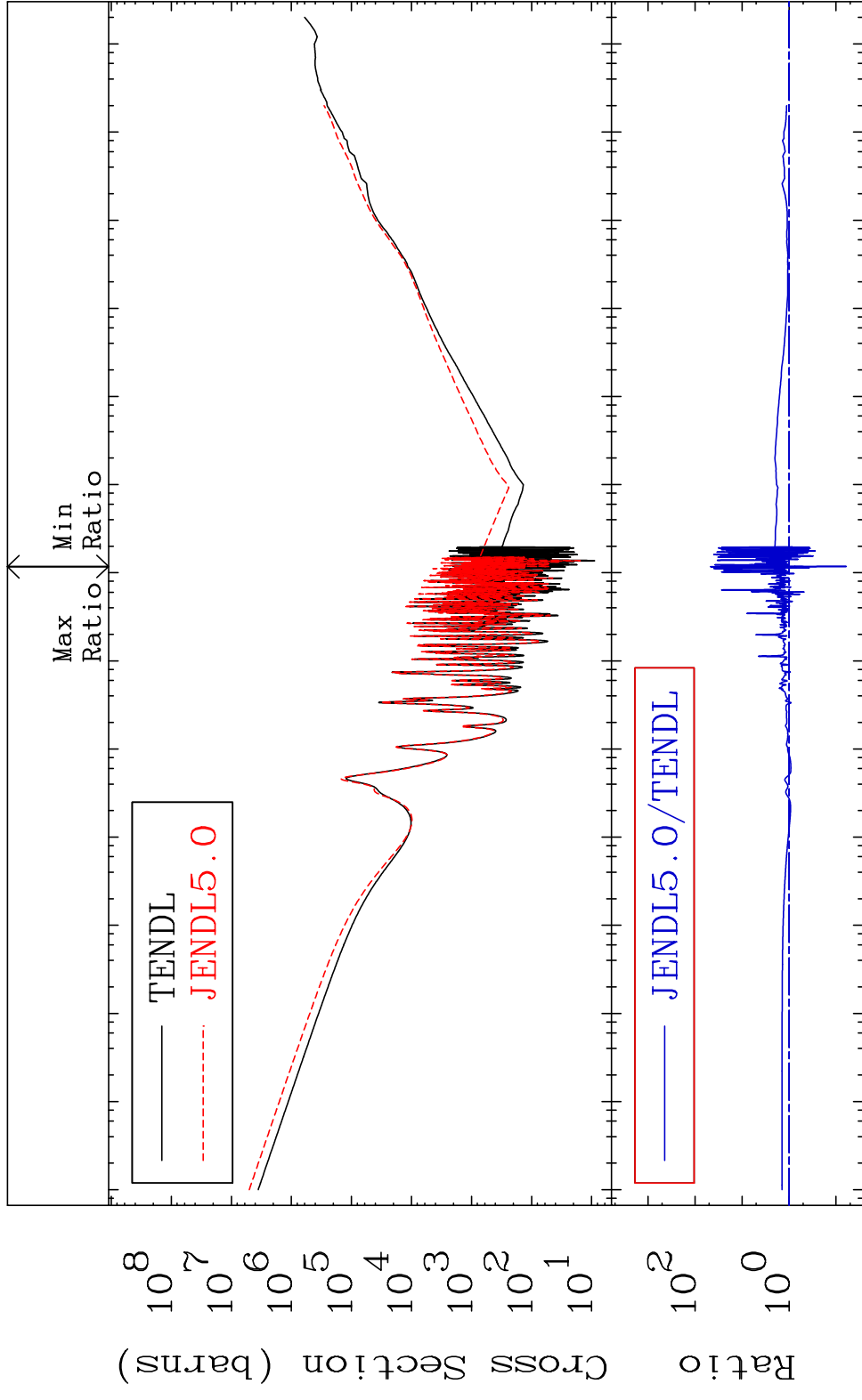


MAT 6325

Dpa total (eV-barns)

63-Eu-151

Cross Section -93.96 To 4529. %

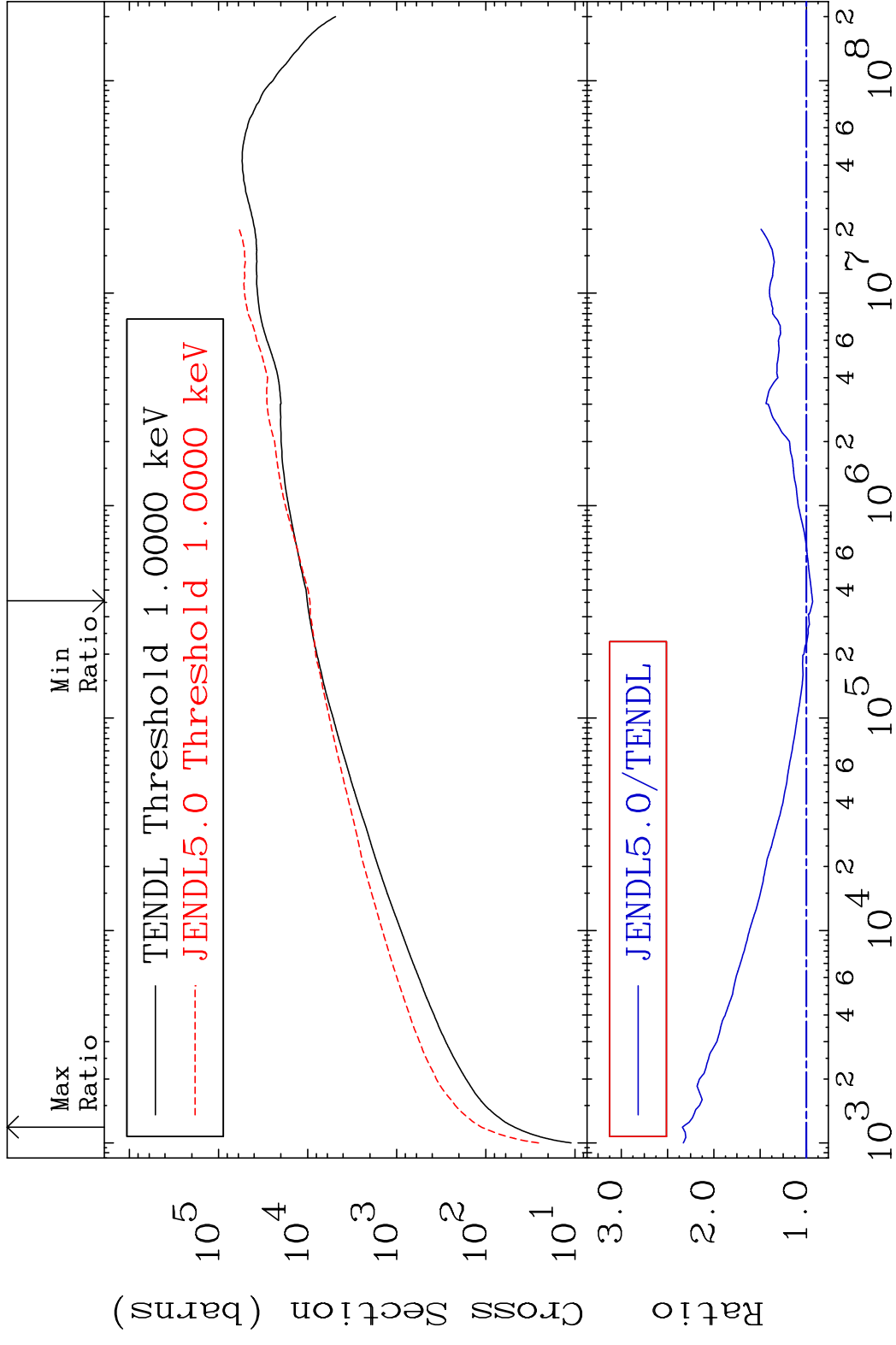


62

Incident Energy (eV)

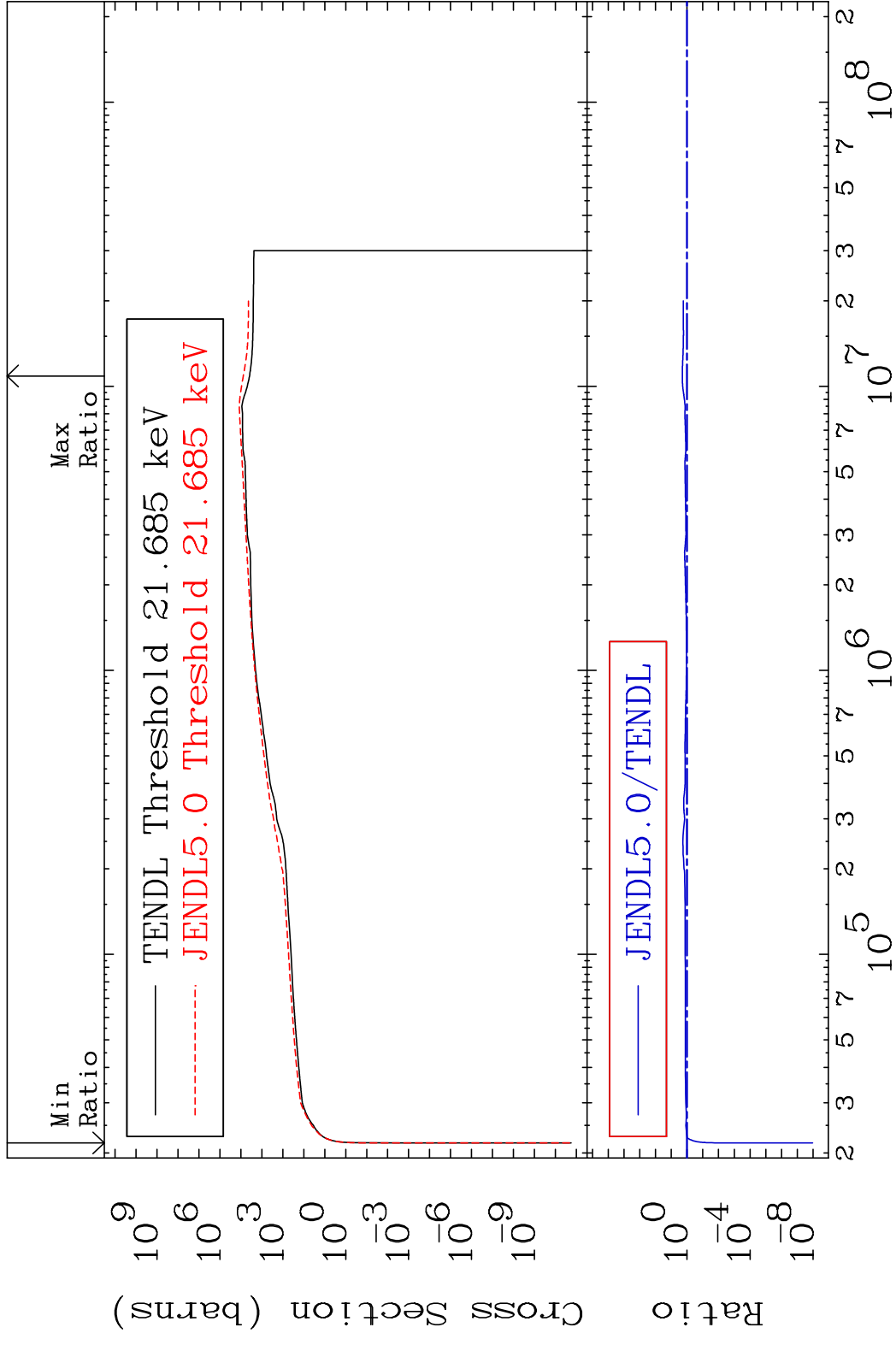
63-Eu-151

MAT 6325 Dpa elastic (mt2) 63-Eu-151
 Cross Section -6.605 To 134.0 %

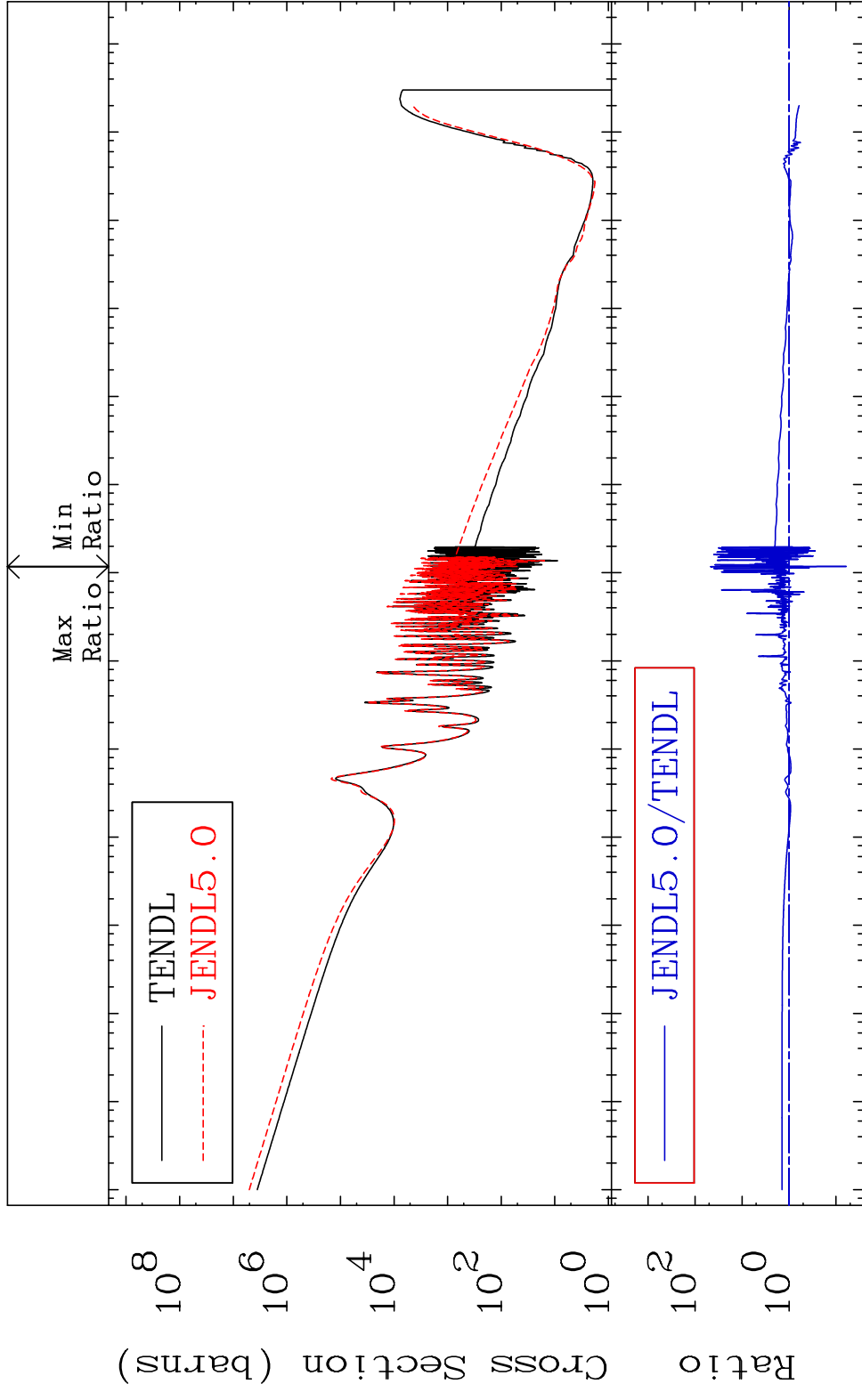


63 Incident Energy (eV) 63-Eu-151

MAT 6325 Dpa inelastic (mt51-91) 63-Eu-151
 Cross Section -100.0 To 97.47 %

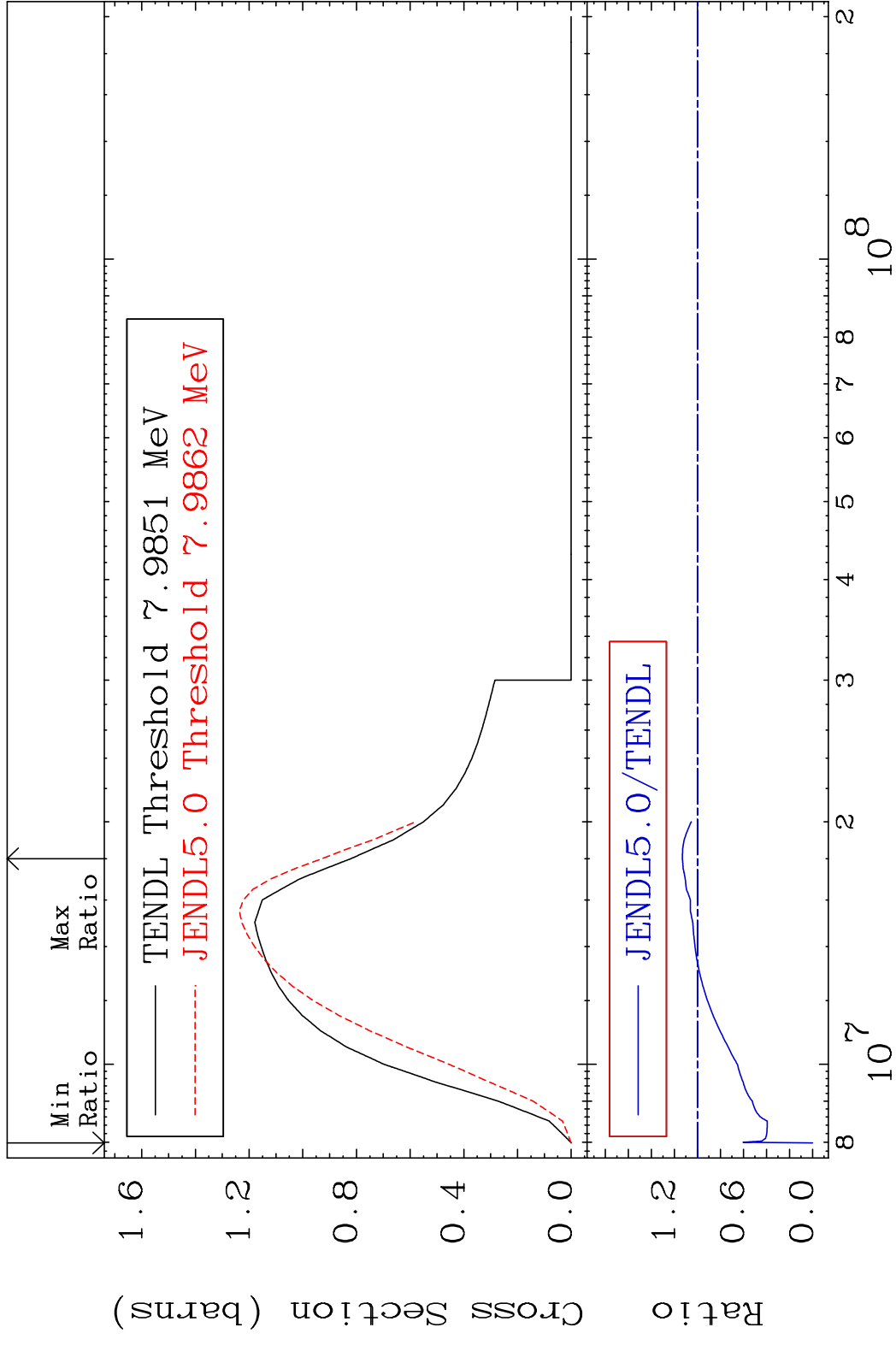


MAT 6325 Dpa disappearance (mt102 -120) 63-Eu-151
 Cross Section -93.96 To 4529. %



65 Incident Energy (eV) 63-Eu-151

MAT 6325 (n,2n):63-Eu-150g 63-Eu-151
 Radionuclide Production Cross Section 13.10 %



MAT 6325 (n,2n):63-Eu-150m1 63-Eu-151
 Radionuclide Production Cross Section Ratio 9.690 %

