

Program Complot  
(Version 2021-1)

by

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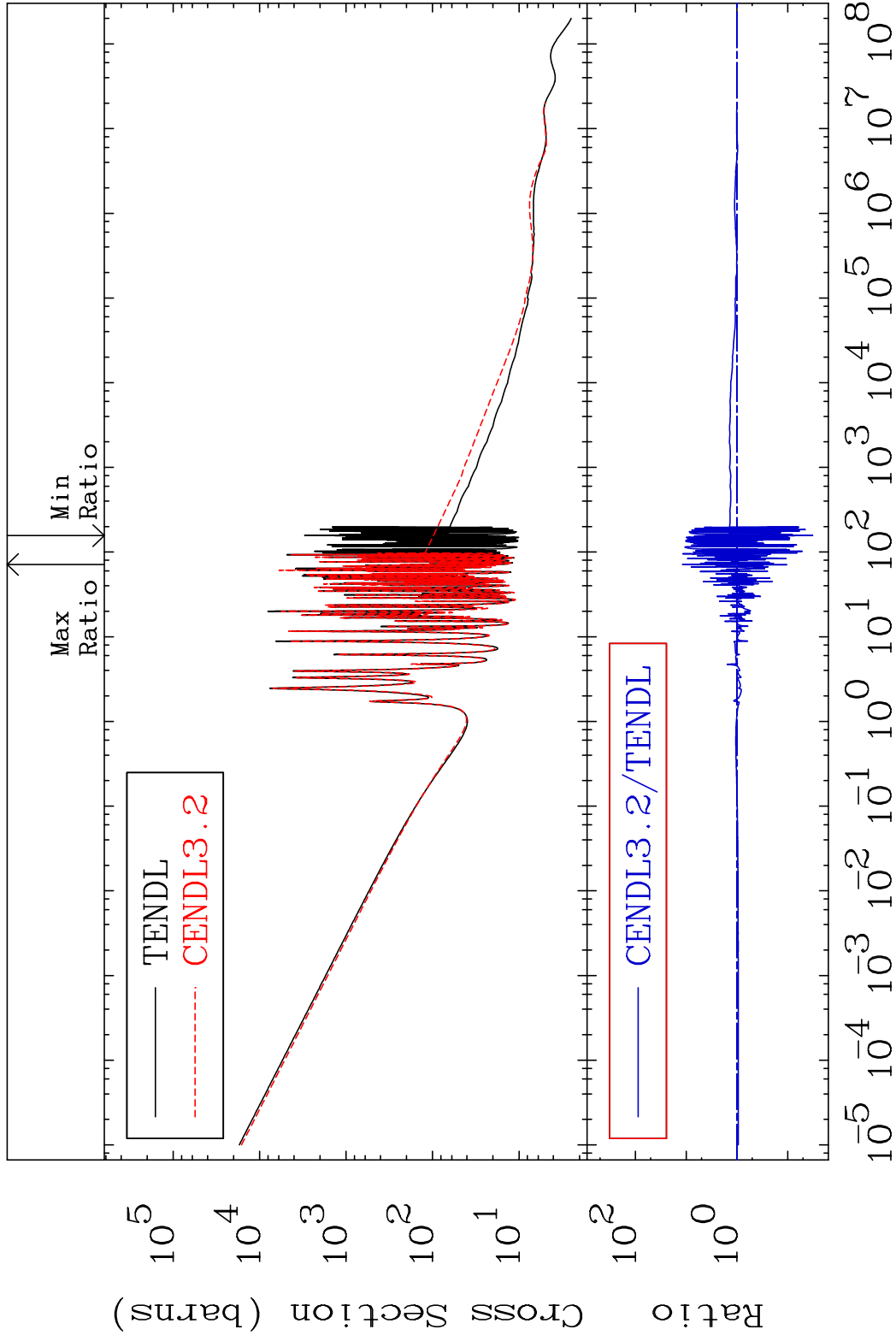
Press Mouse Button to Start

MAT 6331

Total

63-Eu-153

Cross Section -96.76 To 1091. %



1

Incident Energy (eV)

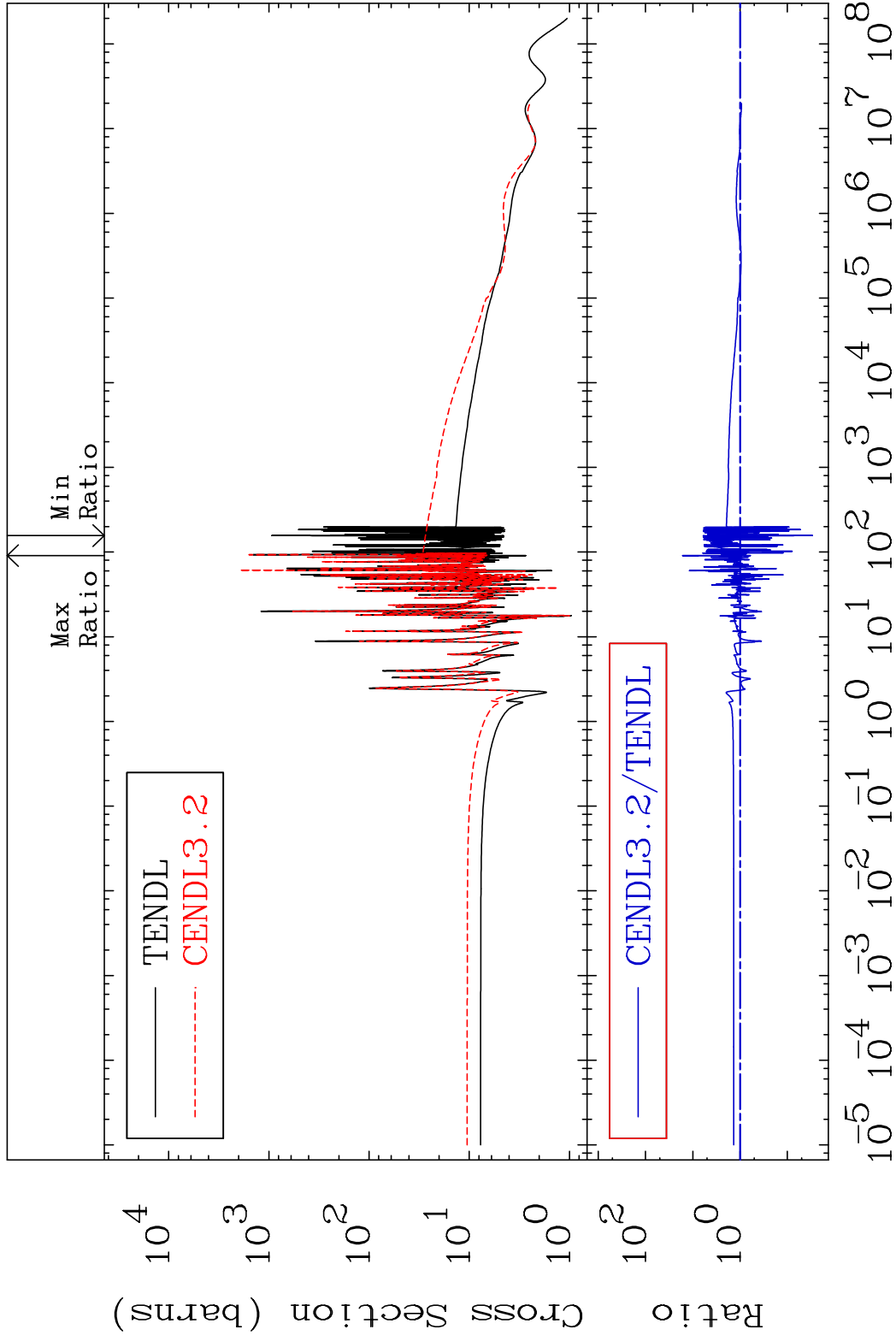
63-Eu-153

MAT 6331

Elastic

63-Eu-153

Cross Section -97.07 To 1561. %



2

Incident Energy (eV)

63-Eu-153

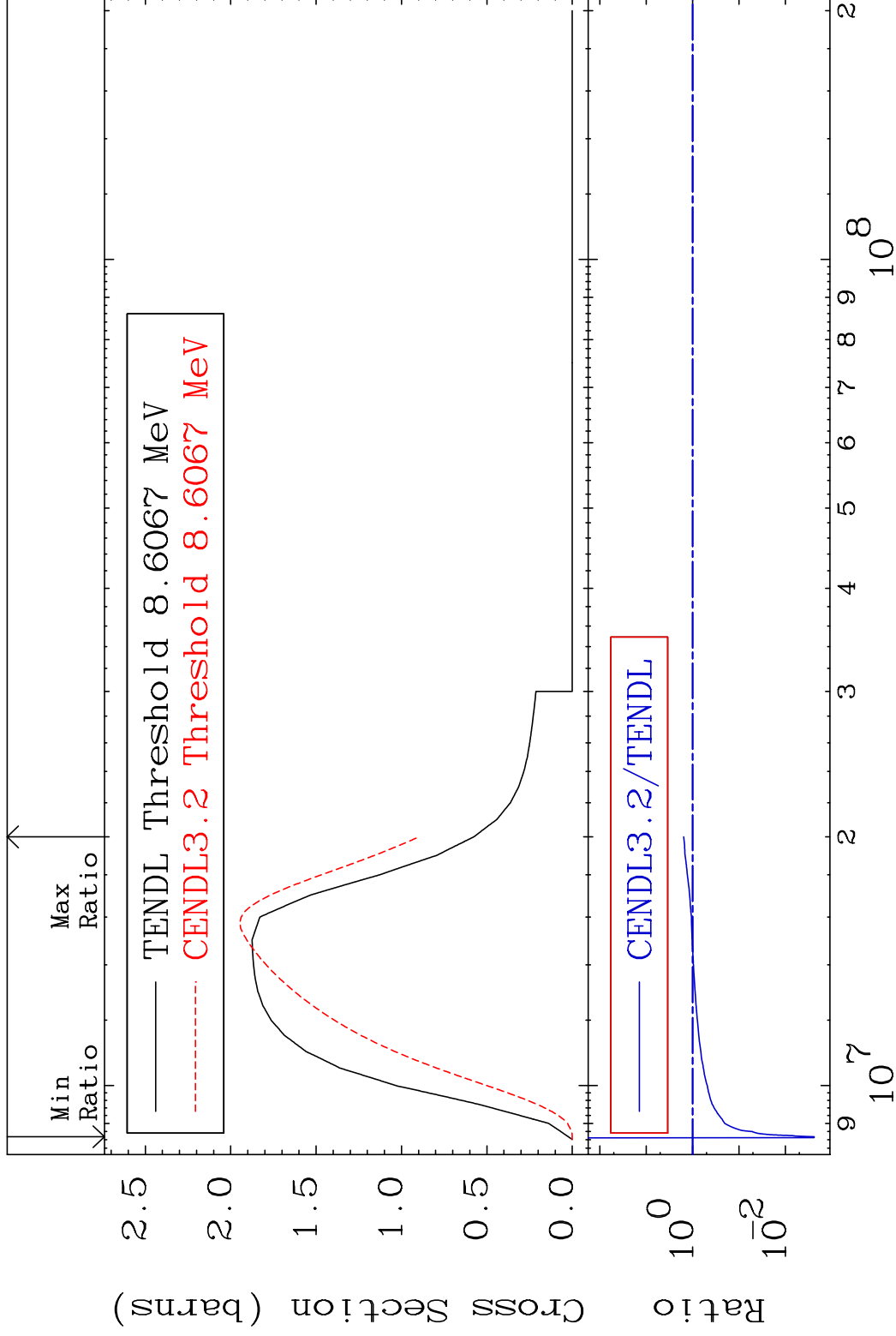


MAT 6331

(n,2n)

63-Eu-153

Cross Section -99.76 To 55.87 %



4

Incident Energy (eV)

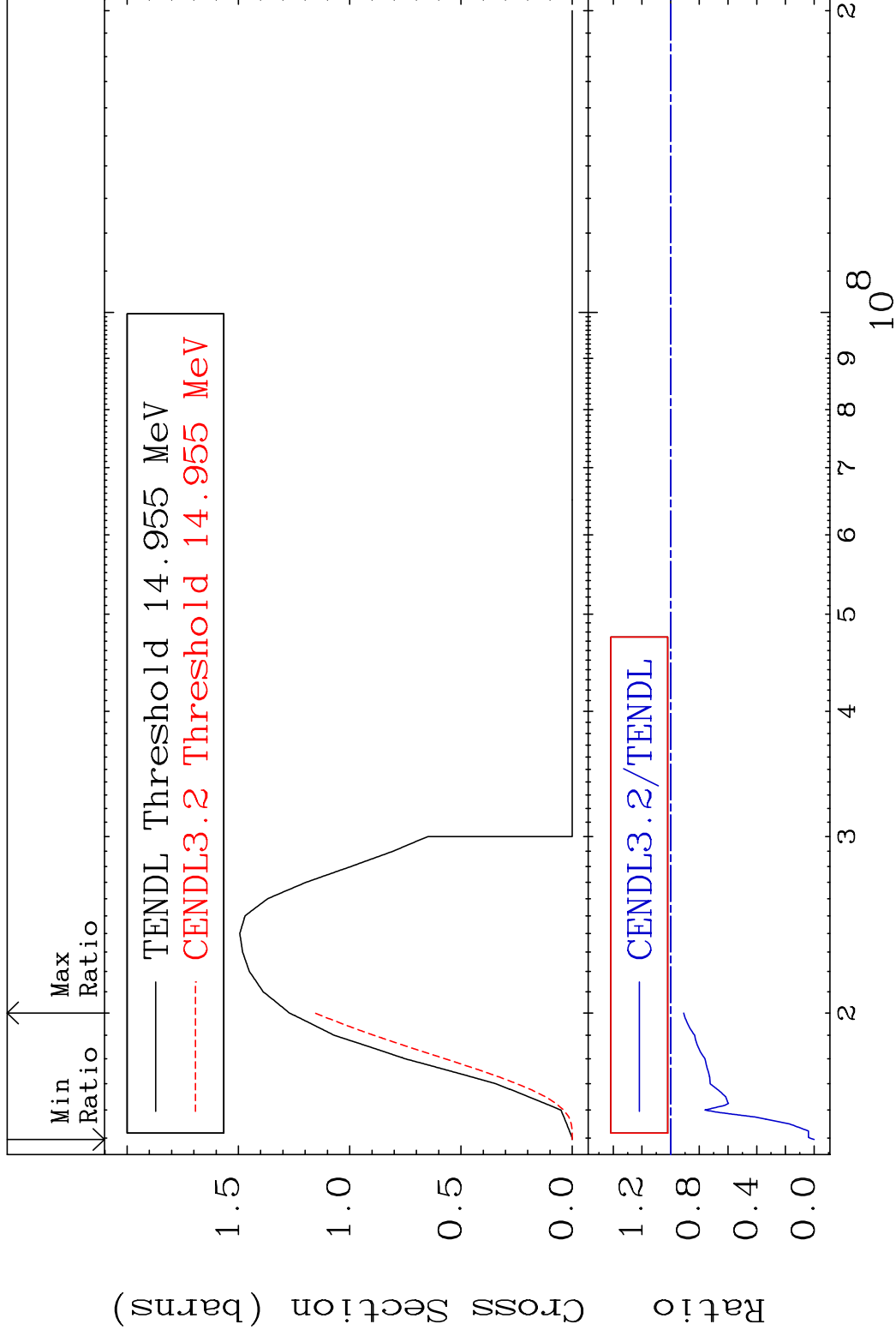
63-Eu-153

MAT 6331

(n,3n)

63-Eu-153

Cross Section -100.0 To -9.072%



5

Incident Energy (eV)

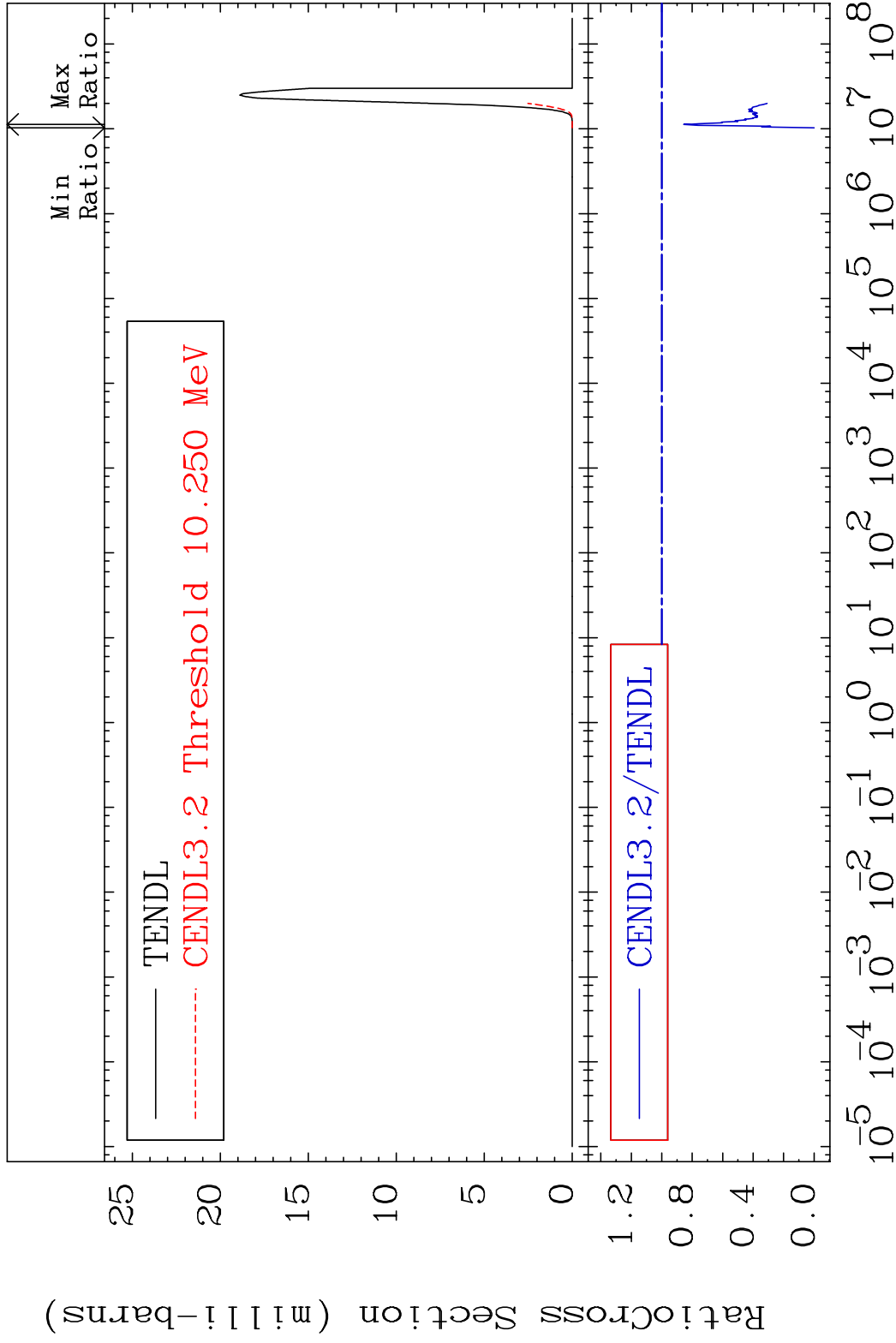
63-Eu-153

MAT 6331

(n, n')  $\alpha$

63-Eu-153

Cross Section -100.0 To -14.39%

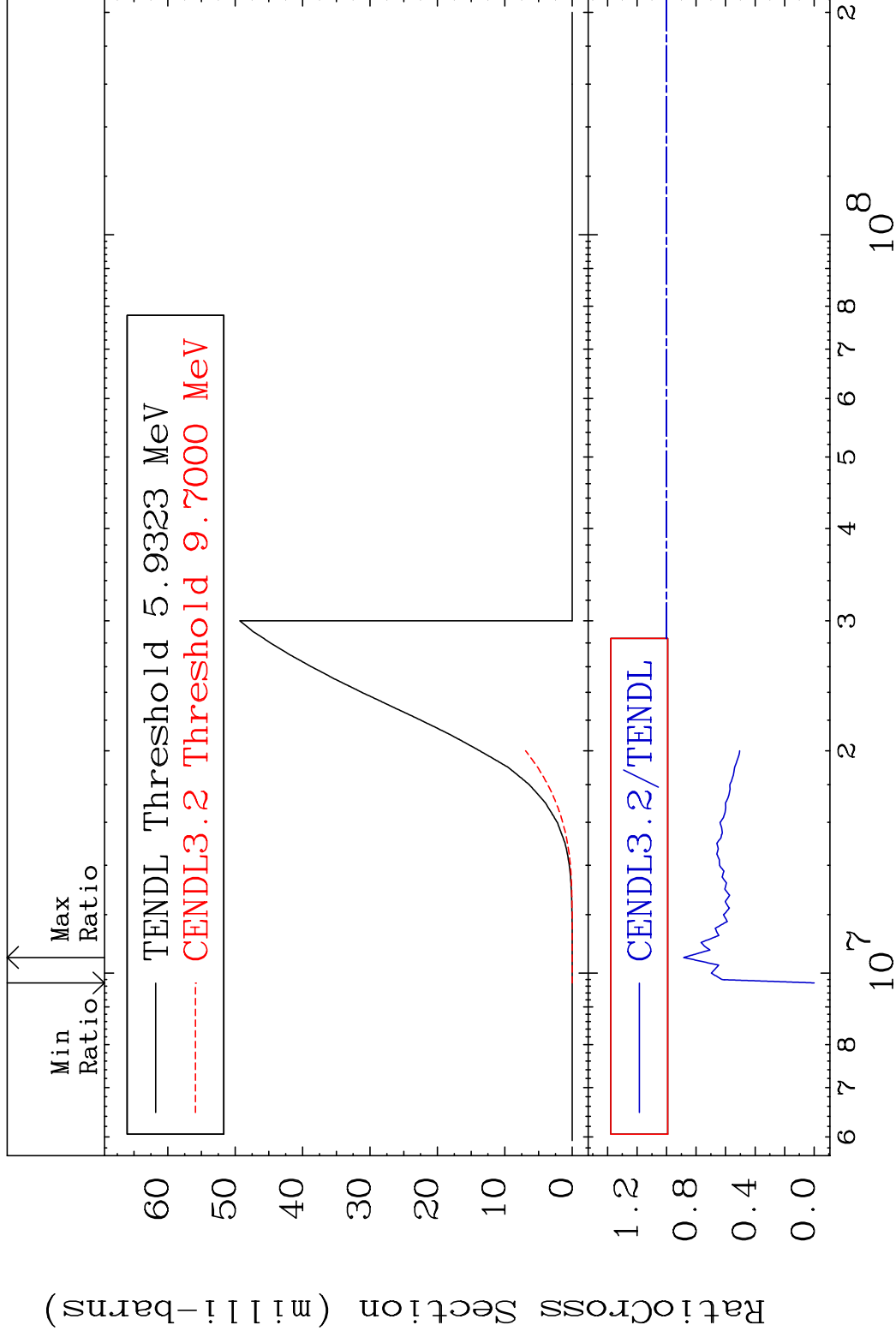


MAT 6331

(n, n') p

63-Eu-153

Cross Section -100.0 To -11.57%



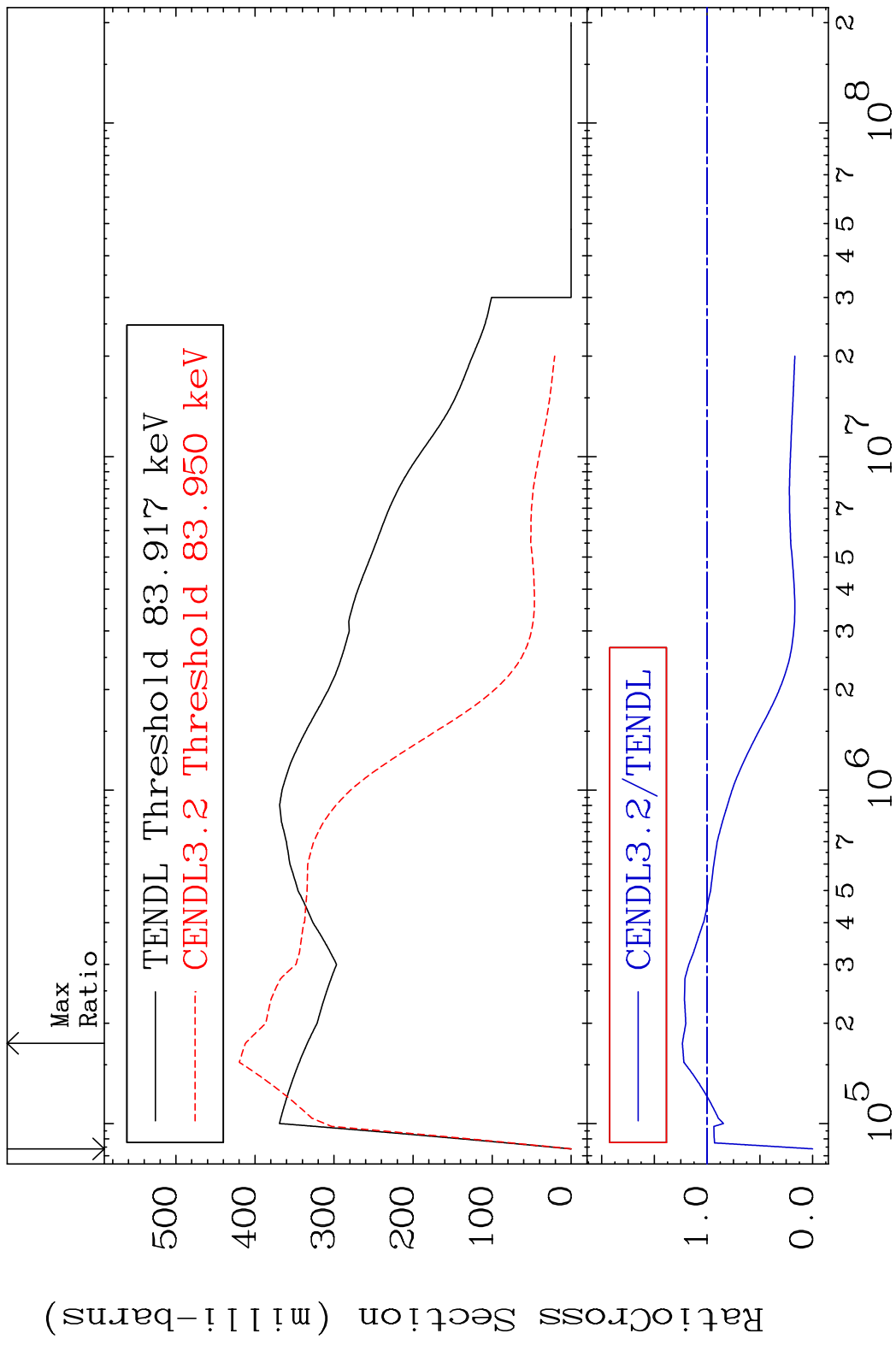
7

Incident Energy (eV)

63-Eu-153

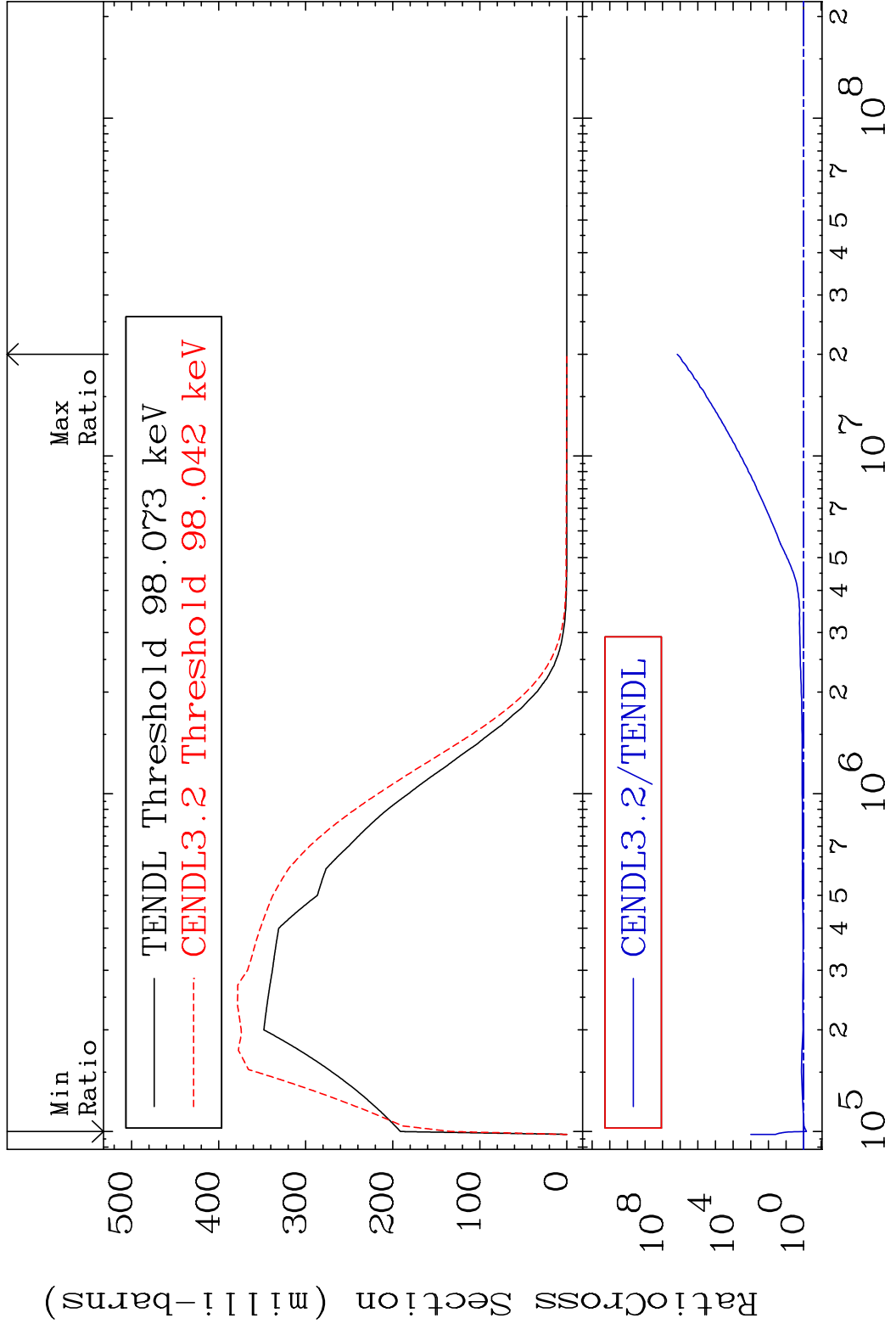


MAT 6331 MT= 51 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 23.47 %



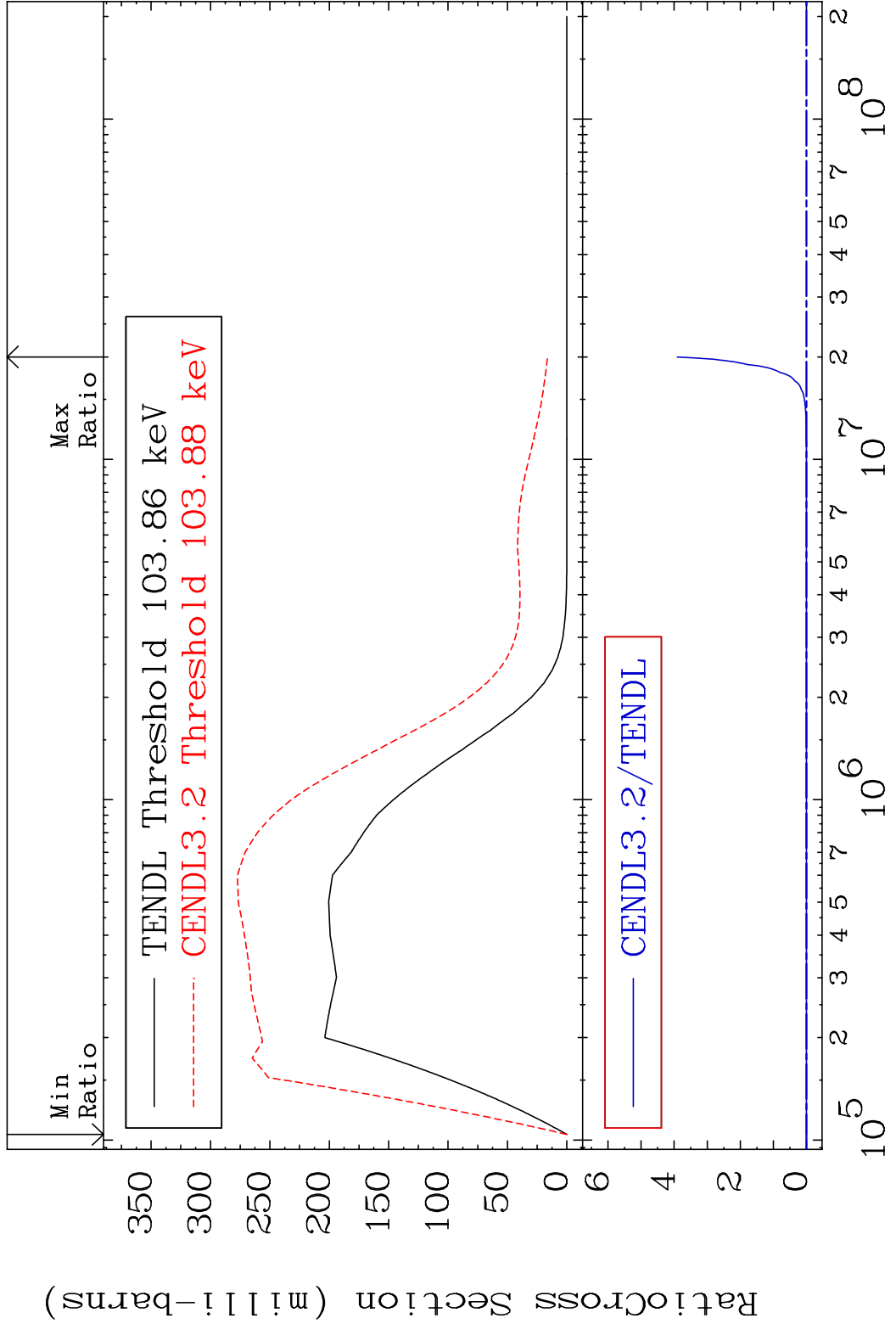
8 Incident Energy (eV) 63-Eu-153

MAT 6331 MT= 52 (n, n') Level 63-Eu-153  
 Cross Section -30.64 To 9999. %



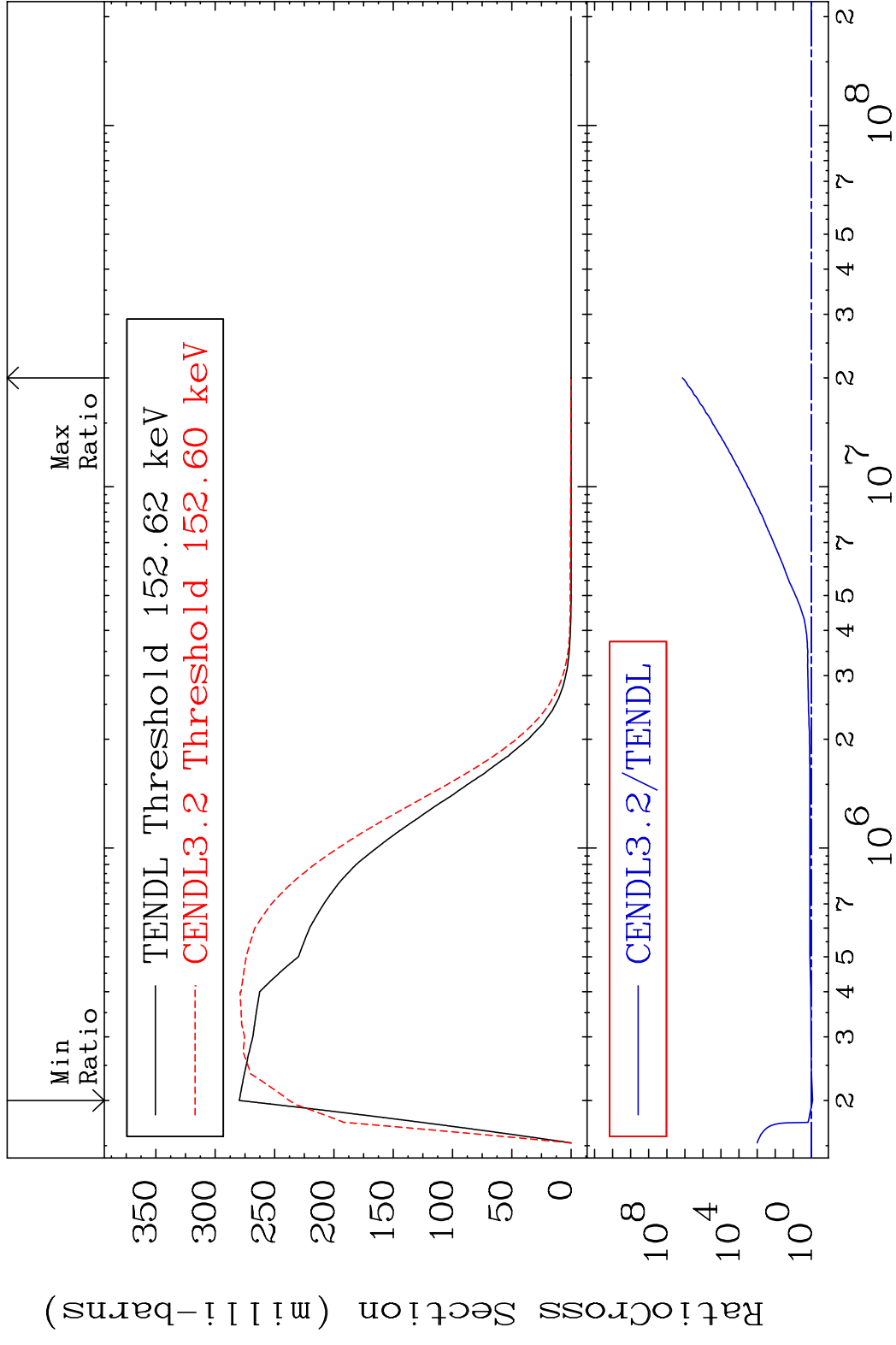
9 Incident Energy (eV) 63-Eu-153

MAT 6331 MT= 53 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 9999. %

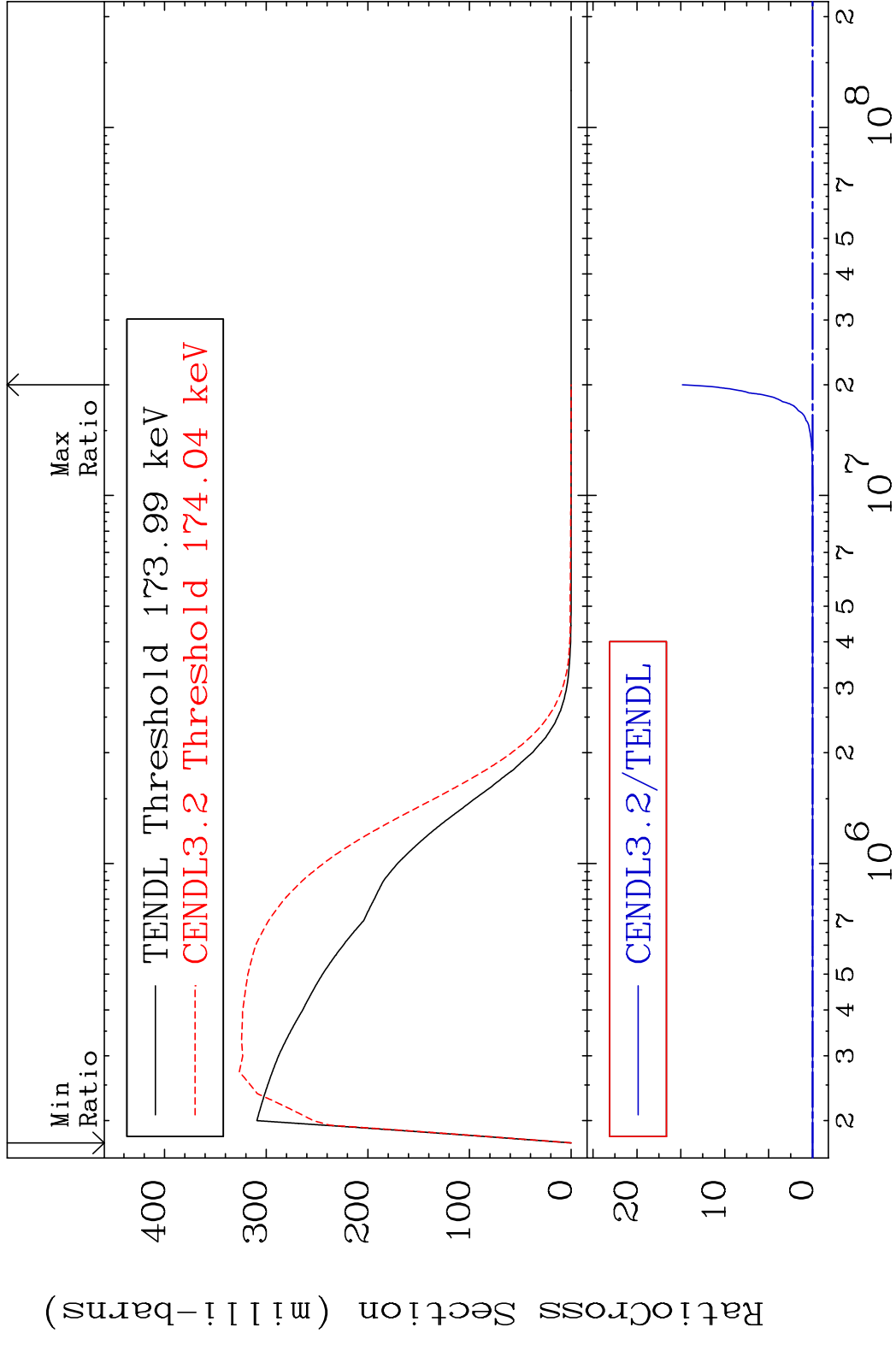


10 Incident Energy (eV) 63-Eu-153

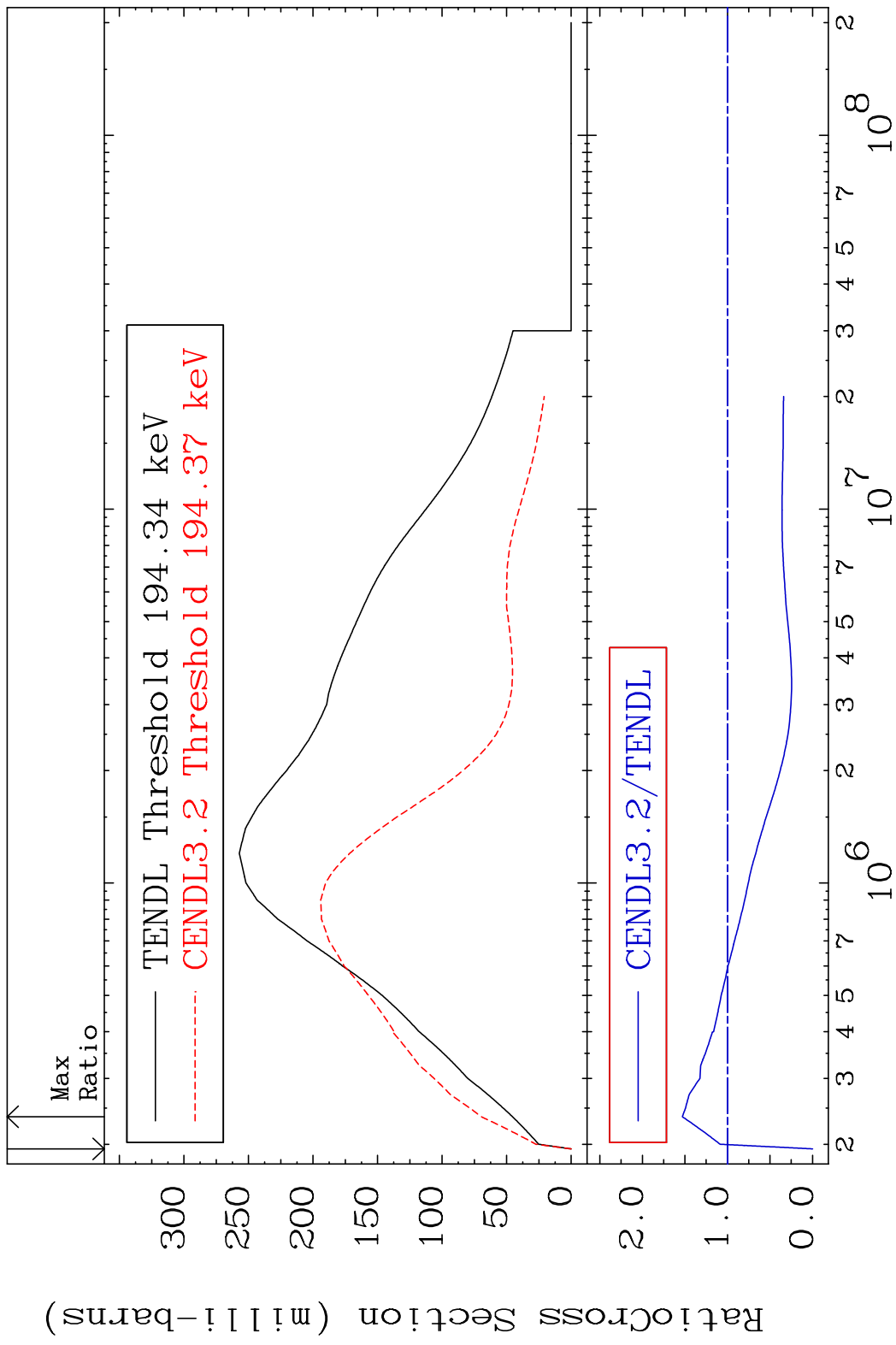
MAT 6331 MT= 54 (n,n') Level 63-Eu-153  
 Cross Section -15.05 To 9999. %



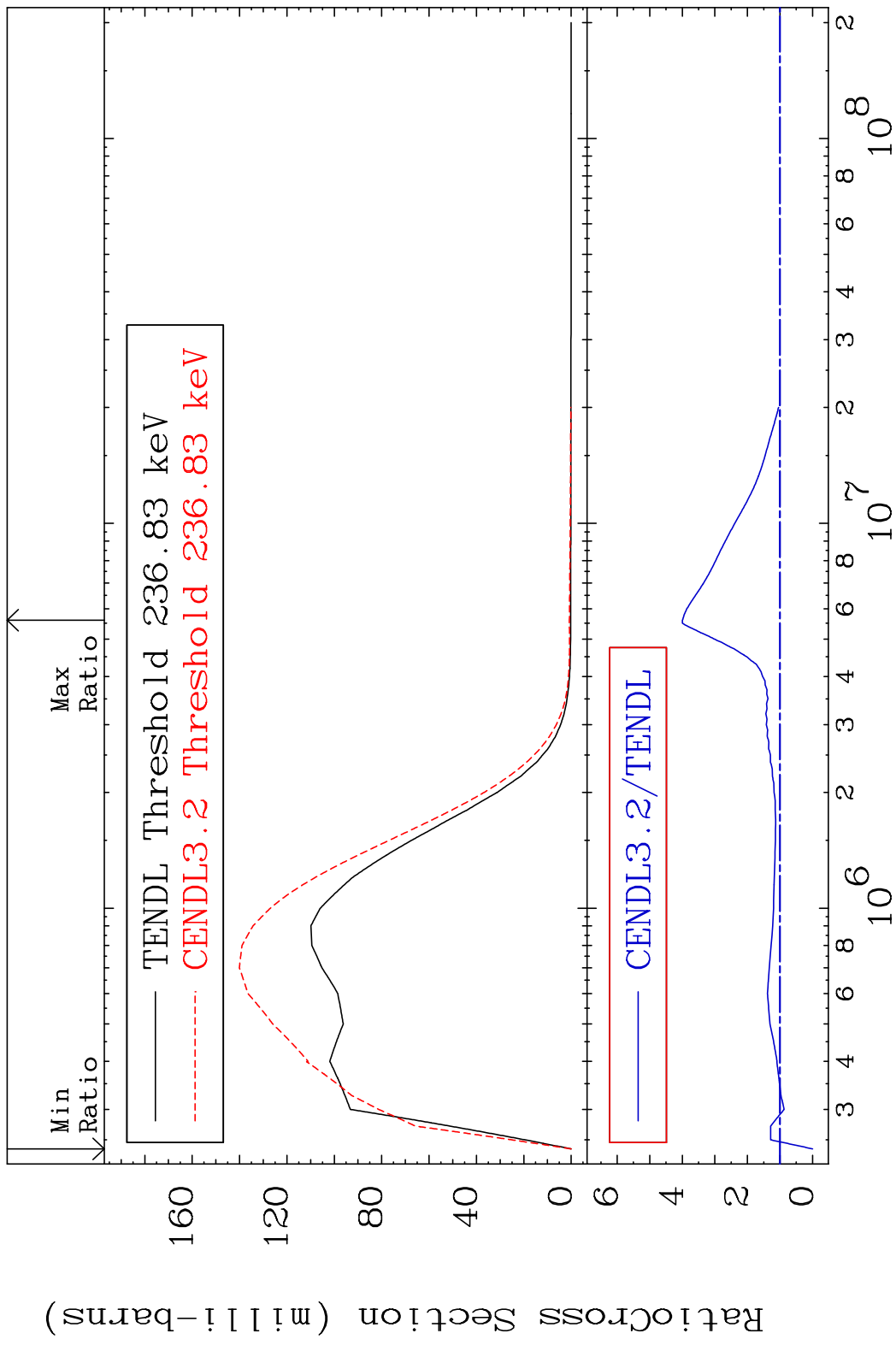
MAT 6331 MT= 55 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 9999. %



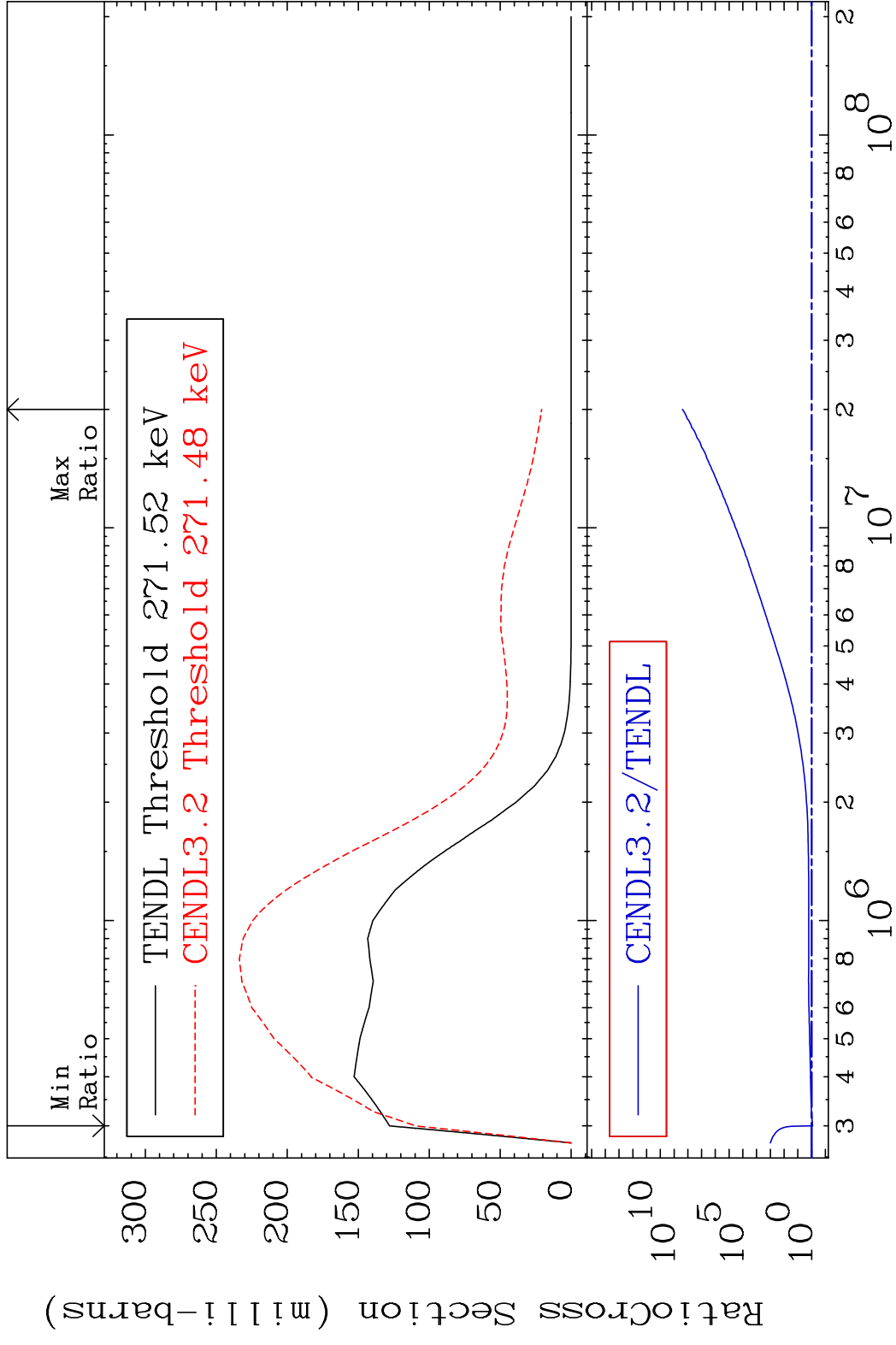
MAT 6331 MT= 56 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 53.01 %



MAT 6331 MT= 57 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 299.8 %

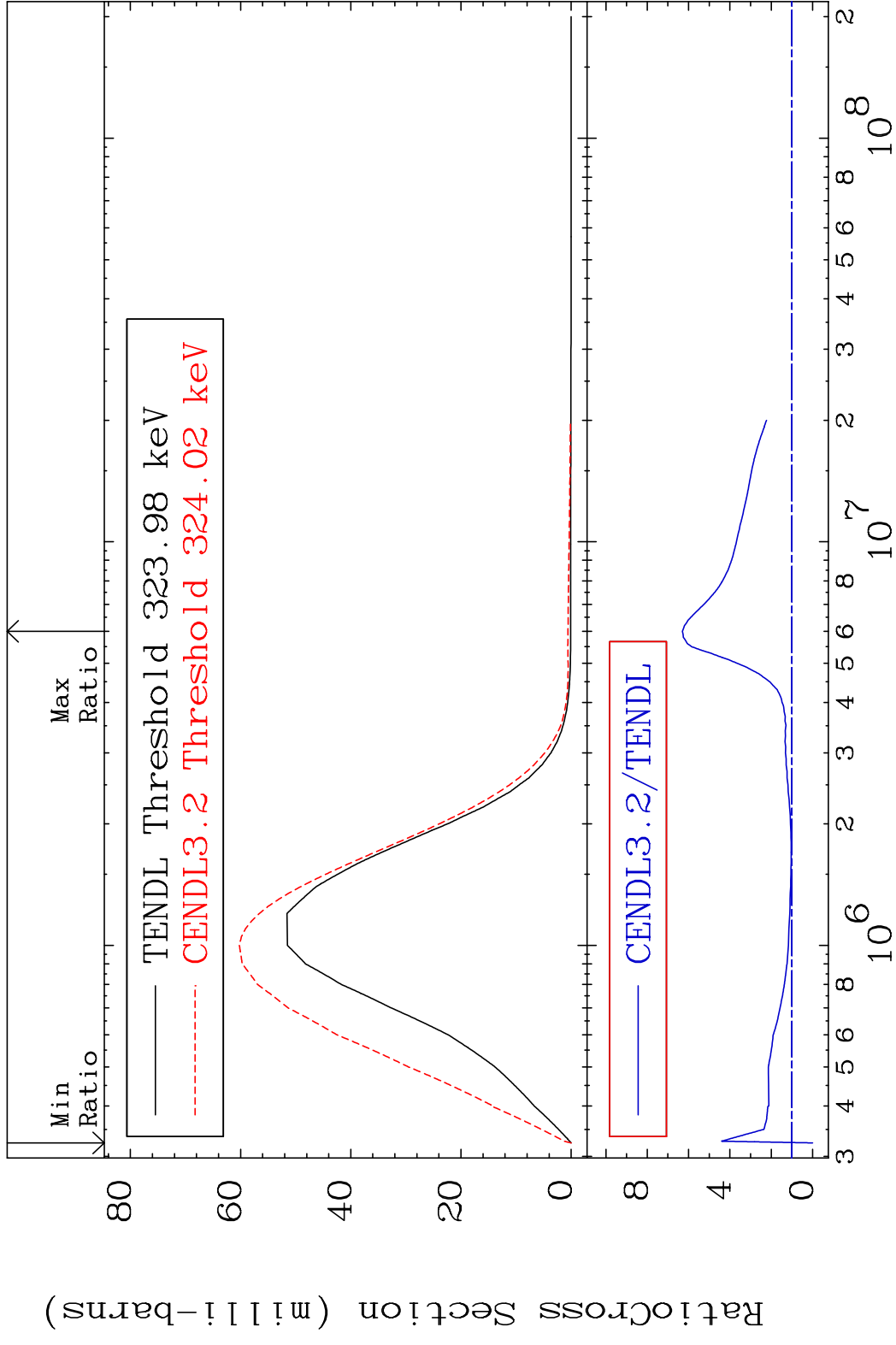


MAT 6331 MT= 58 (n,n') Level 63-Eu-153  
 Cross Section -14.29 To 9999. %

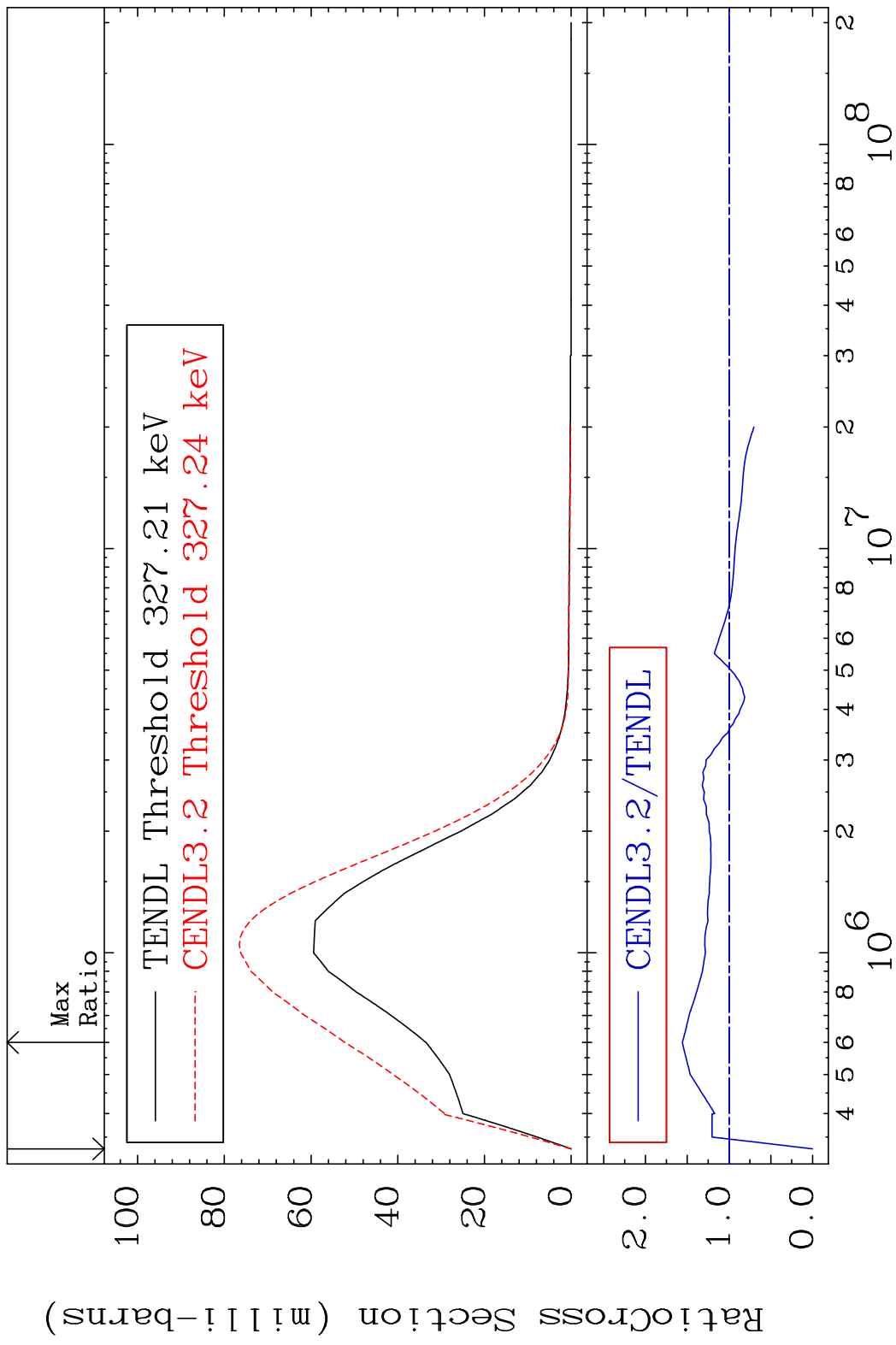




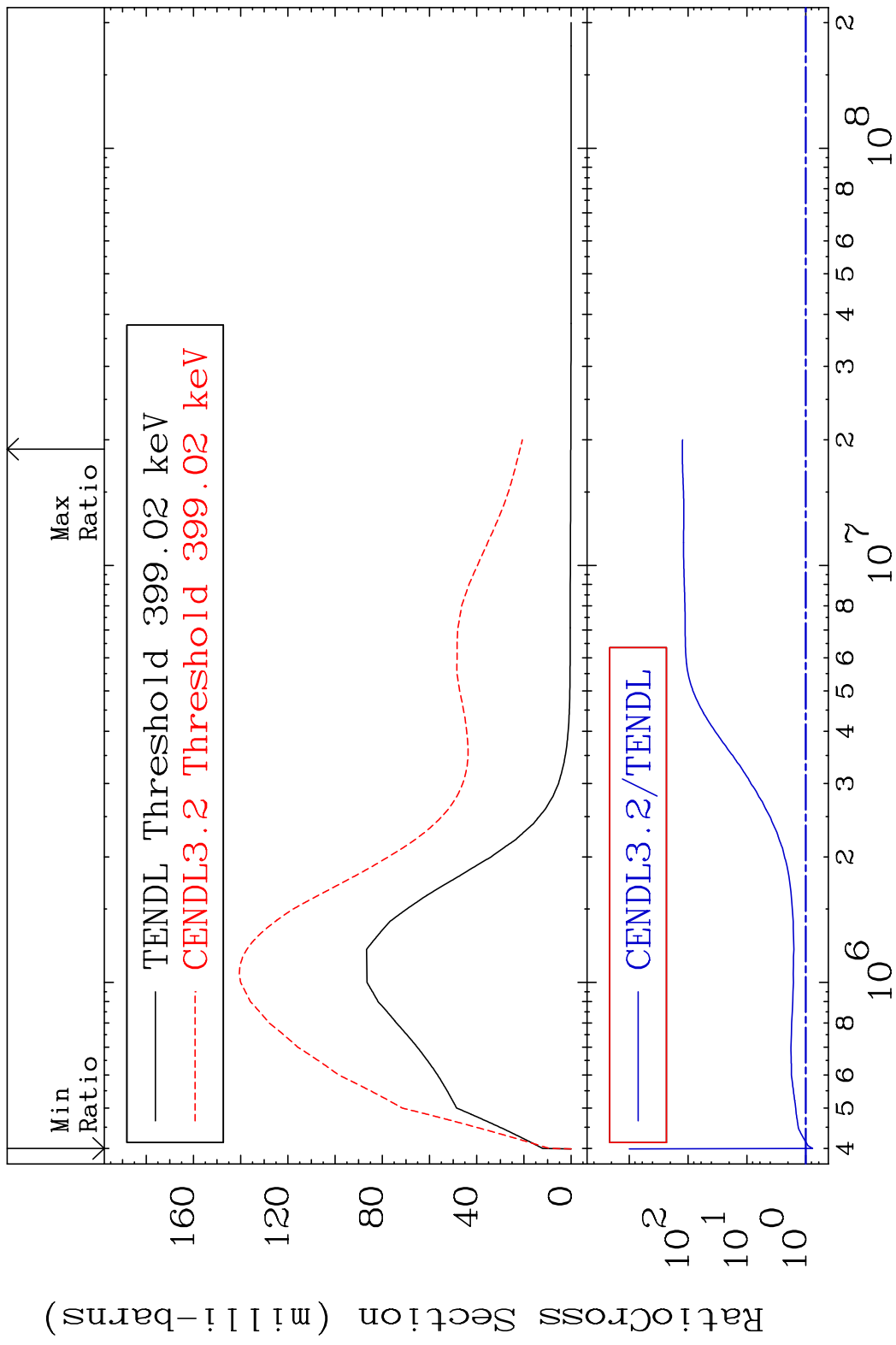
MAT 6331 MT= 59 (n, n') Level 63-Eu-153  
 Cross Section -100.0 To 530.0 %



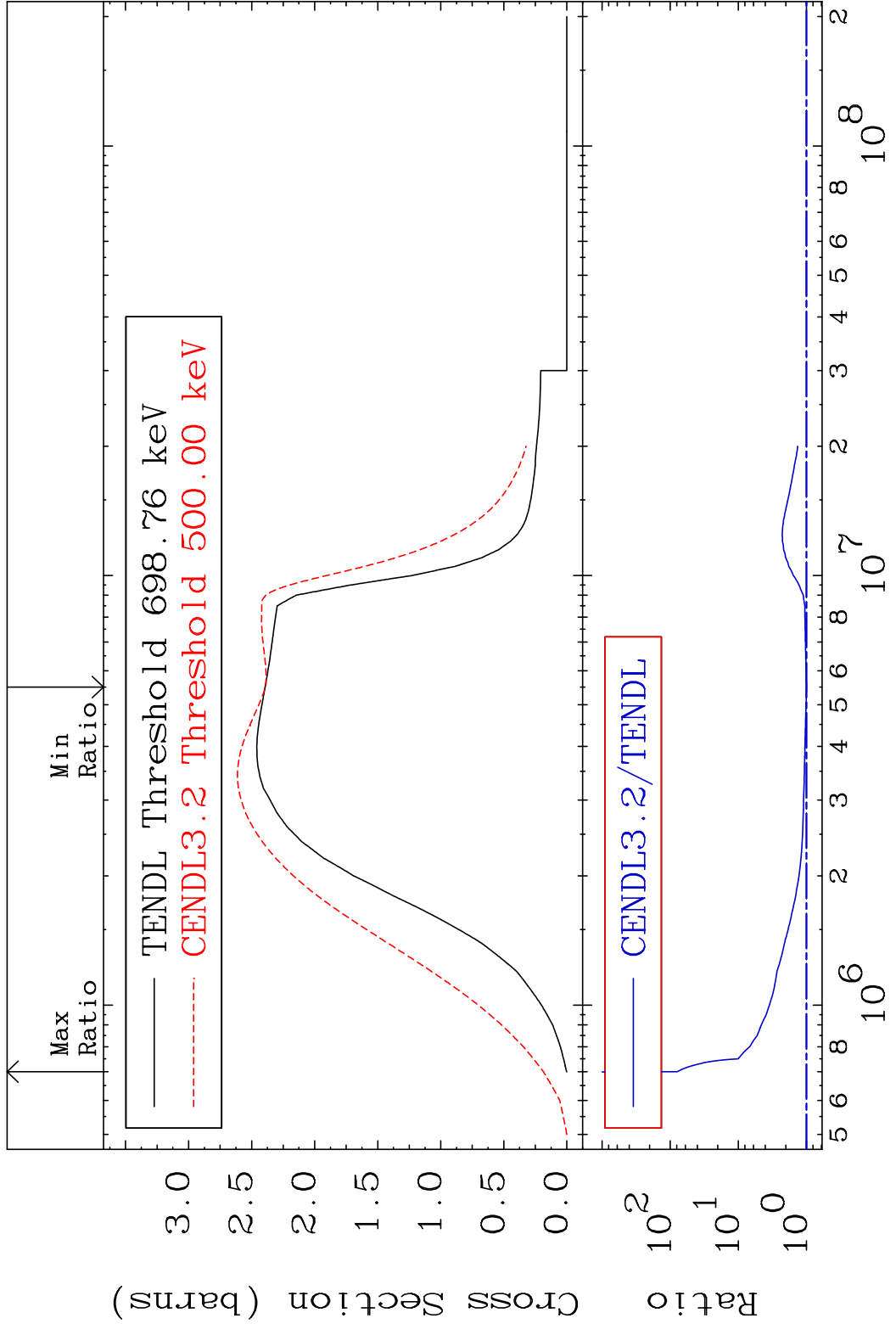
MAT 6331 MT= 60 (n,n') Level 63-Eu-153  
 Cross Section -100.0 To 55.90 %



MAT 6331 MT= 61 (n, n') Level 63-Eu-153  
 Cross Section -23.66 To 9999. %



MAT 6331 (n, n') Continuum 63-Eu-153  
 Cross Section -0.165 To 7796. %

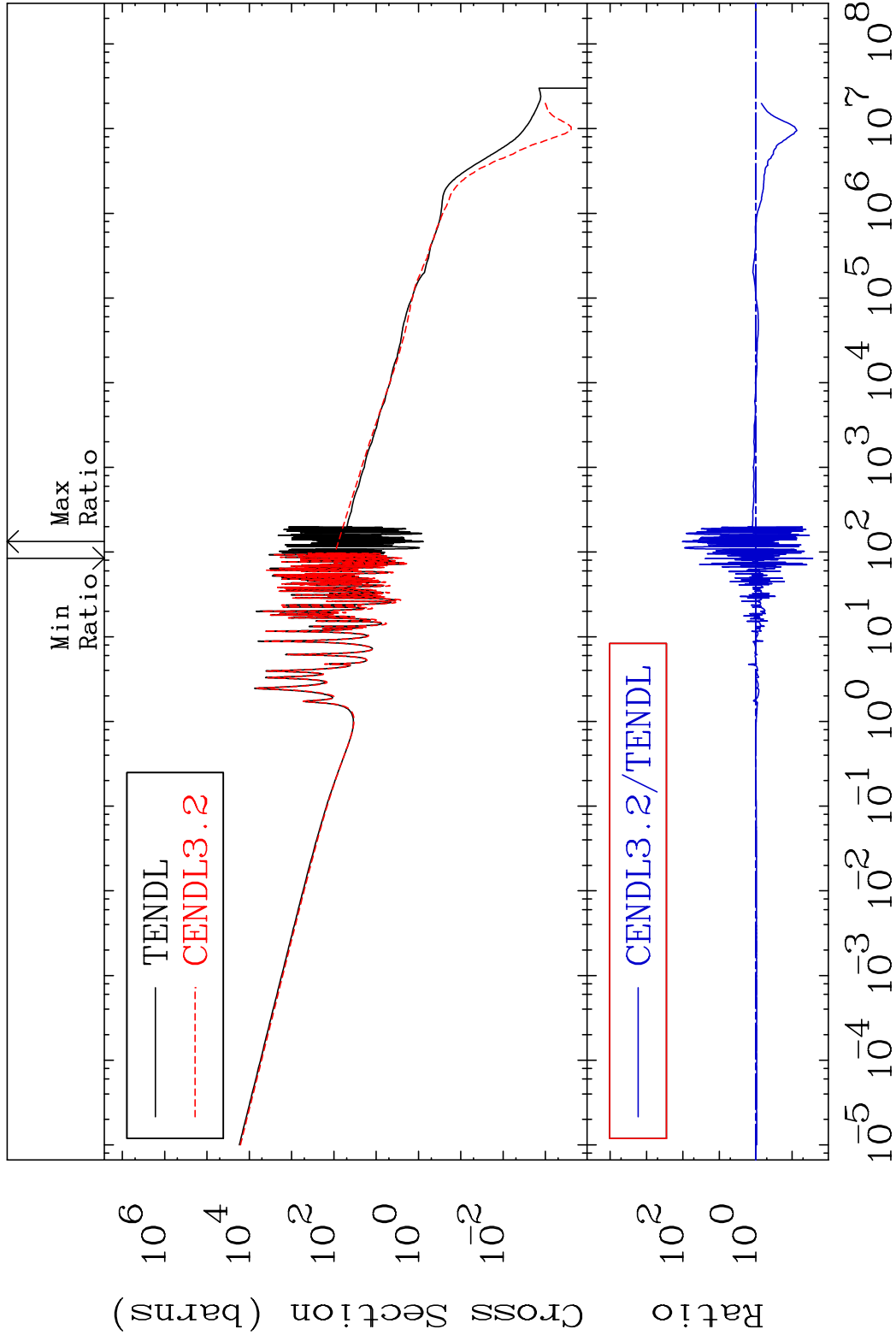


MAT 6331

(n,  $\gamma$ )

63-Eu-153

Cross Section -97.25 To 9999. %



20

Incident Energy (eV)

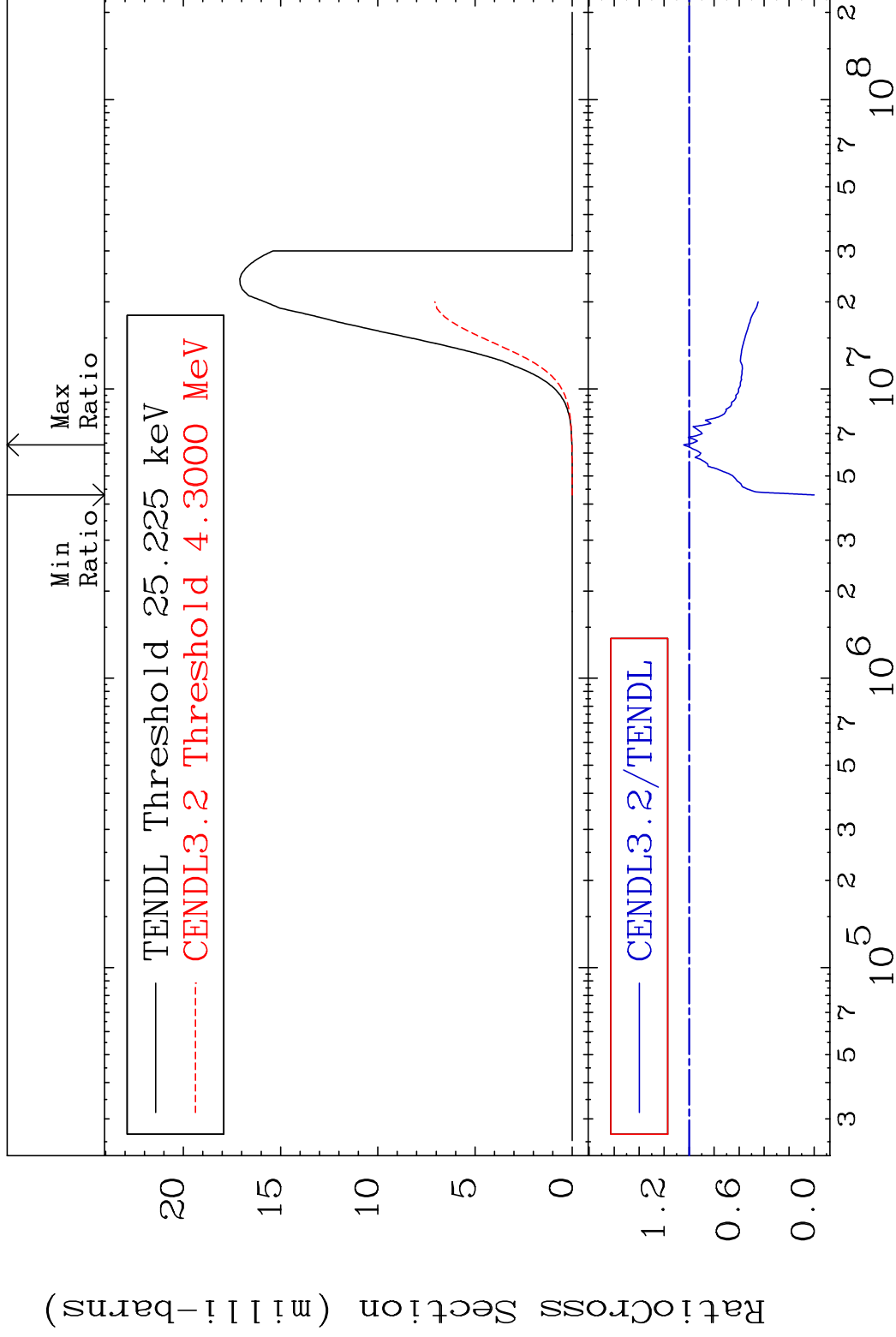
63-Eu-153

MAT 6331

(n, p)

63-Eu-153

Cross Section -100.0 To 4.387 %



21

Incident Energy (eV)

63-Eu-153

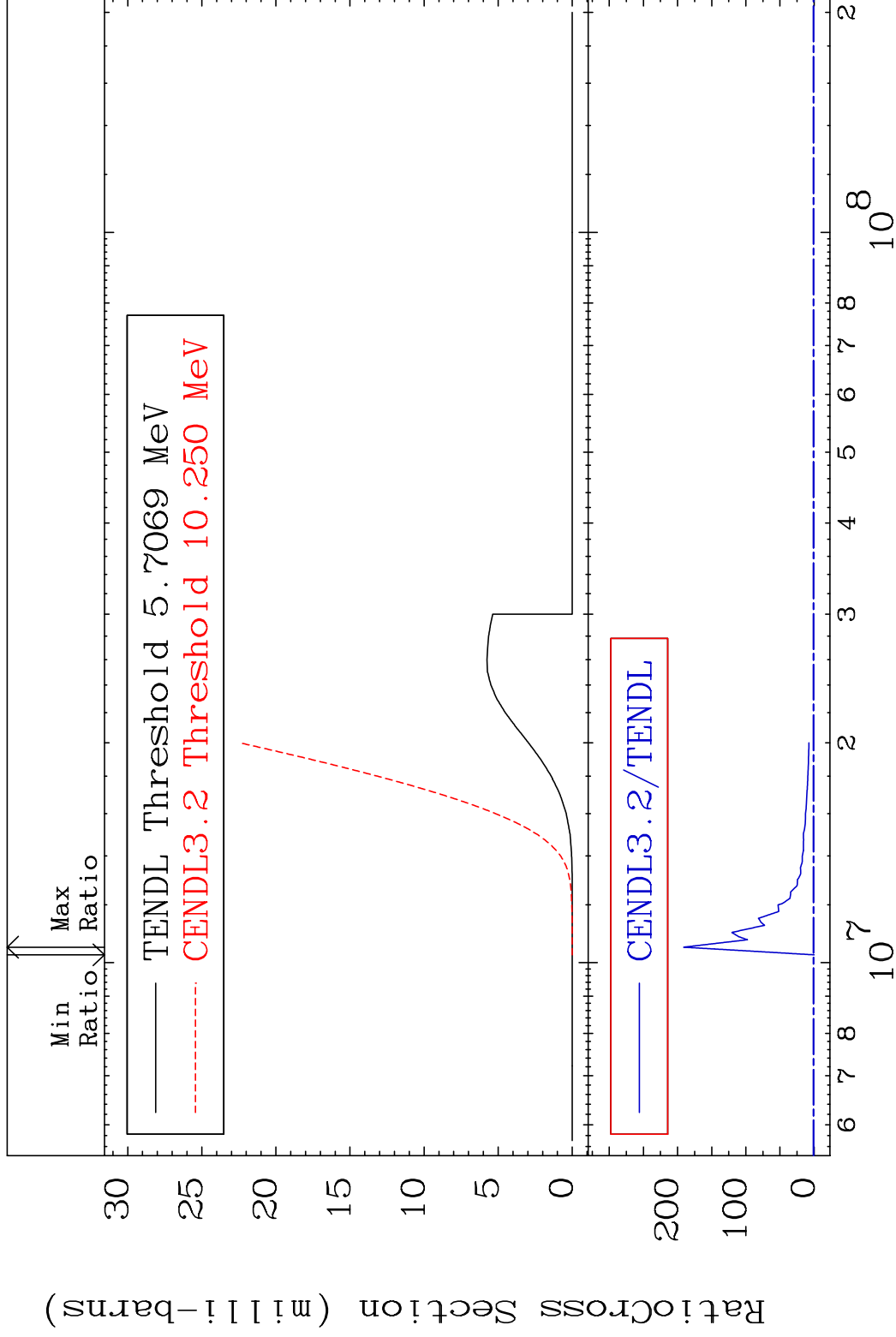


MAT 6331

(n, t)

63-Eu-153

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

63-Eu-153

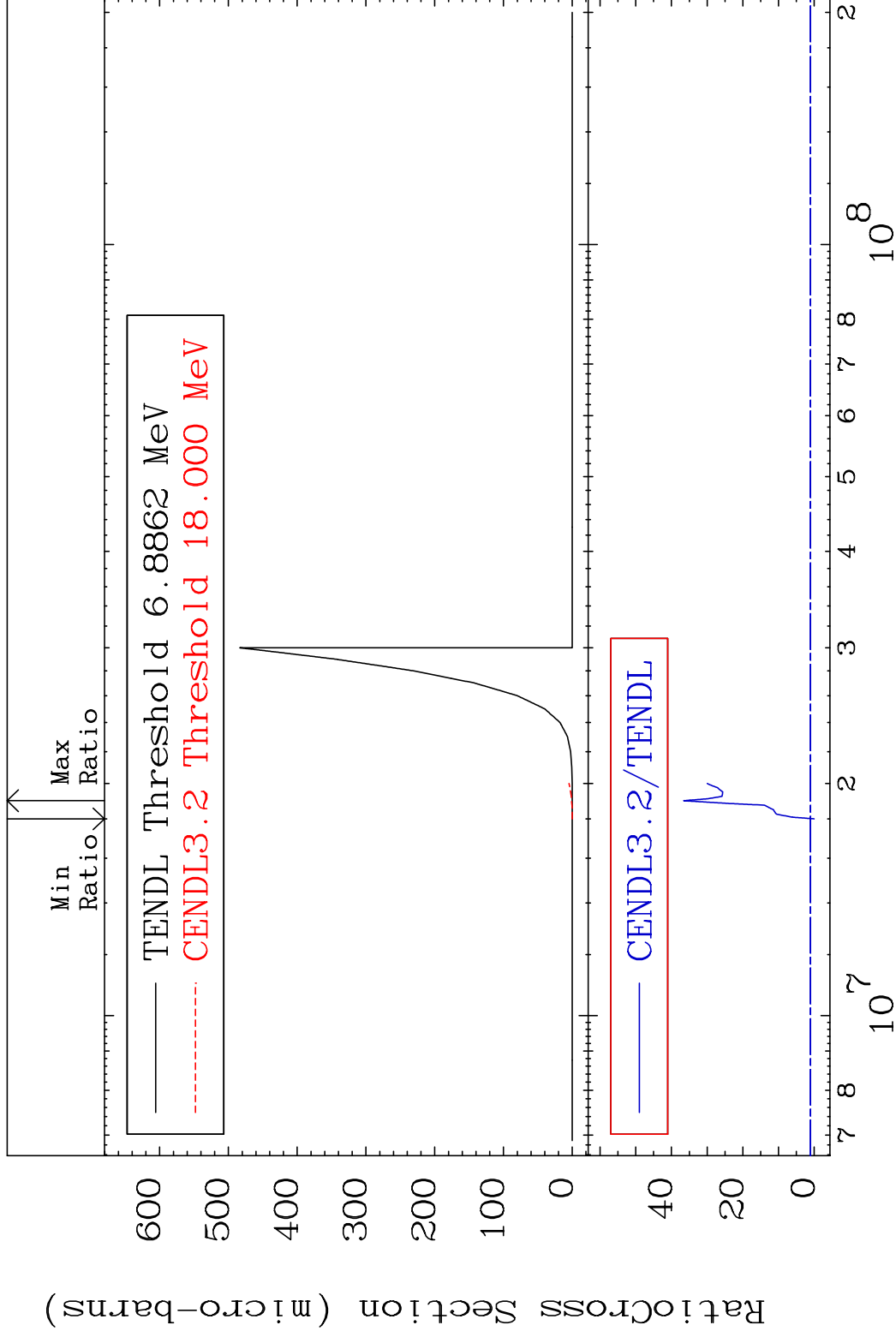


MAT 6331

(n, He-3)

63-Eu-153

Cross Section -100.0 To 3558. %



24

Incident Energy (eV)

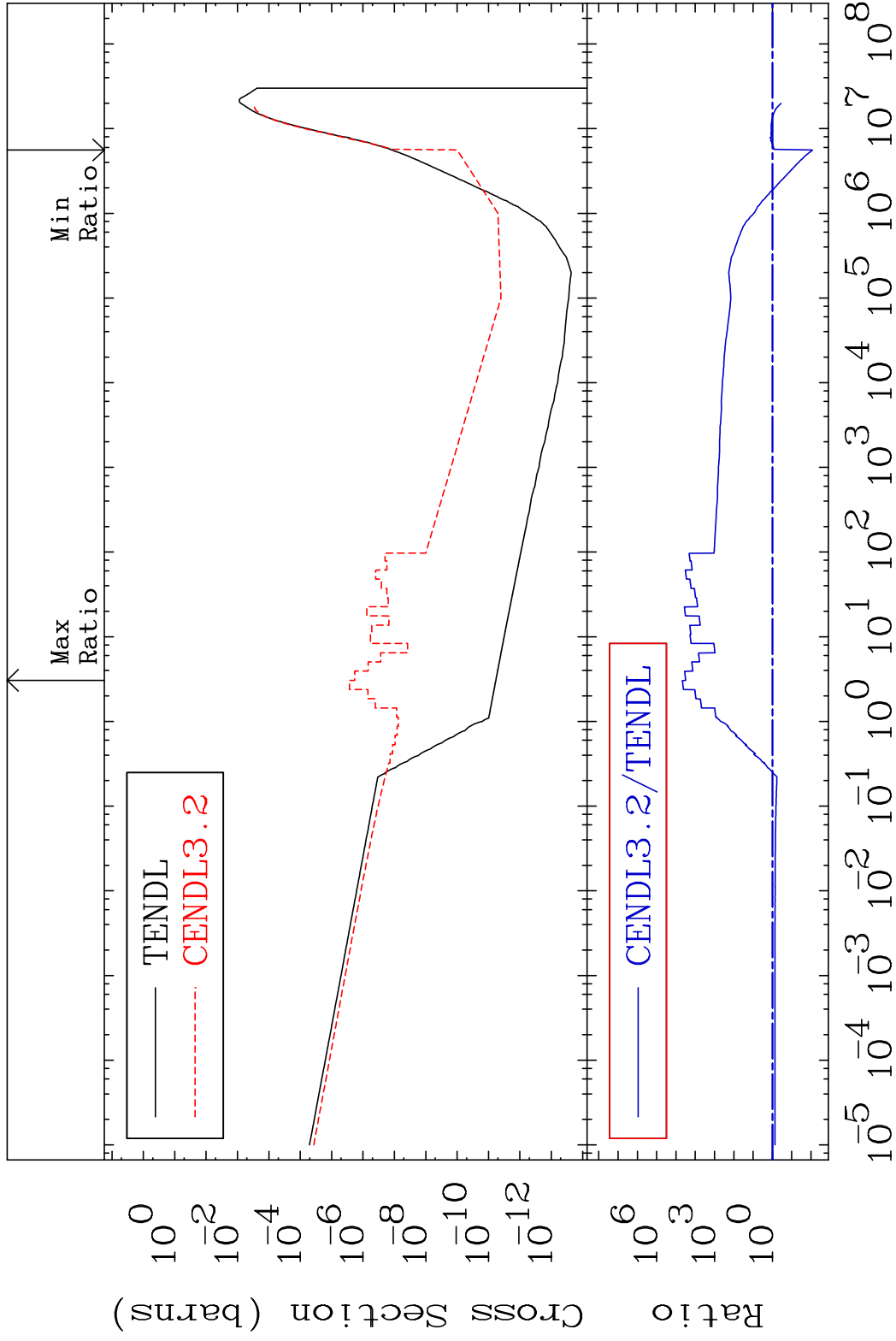
63-Eu-153

MAT 6331

(n,  $\alpha$ )

63-Eu-153

Cross Section -99.17 To 9999. %

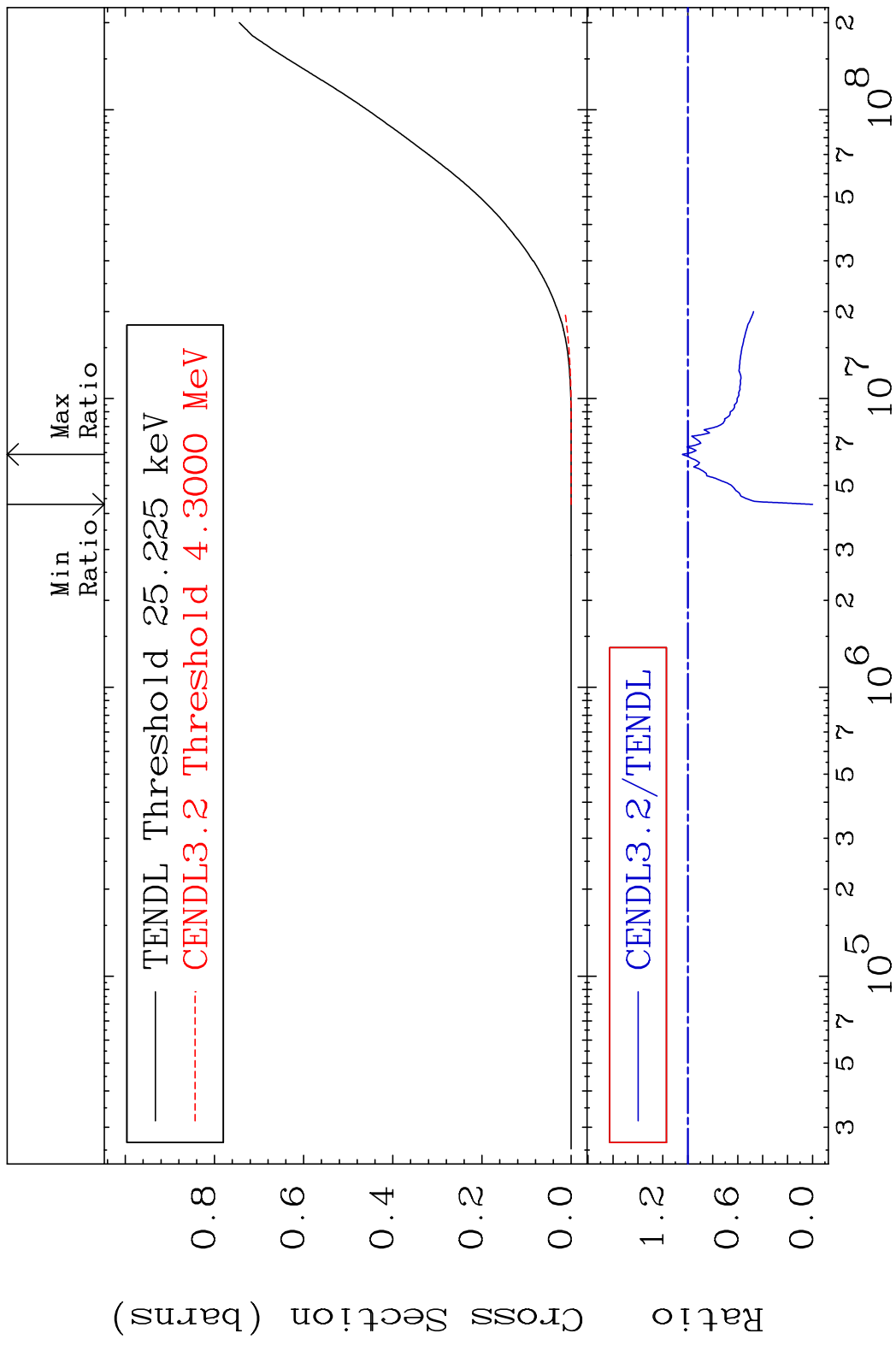


25

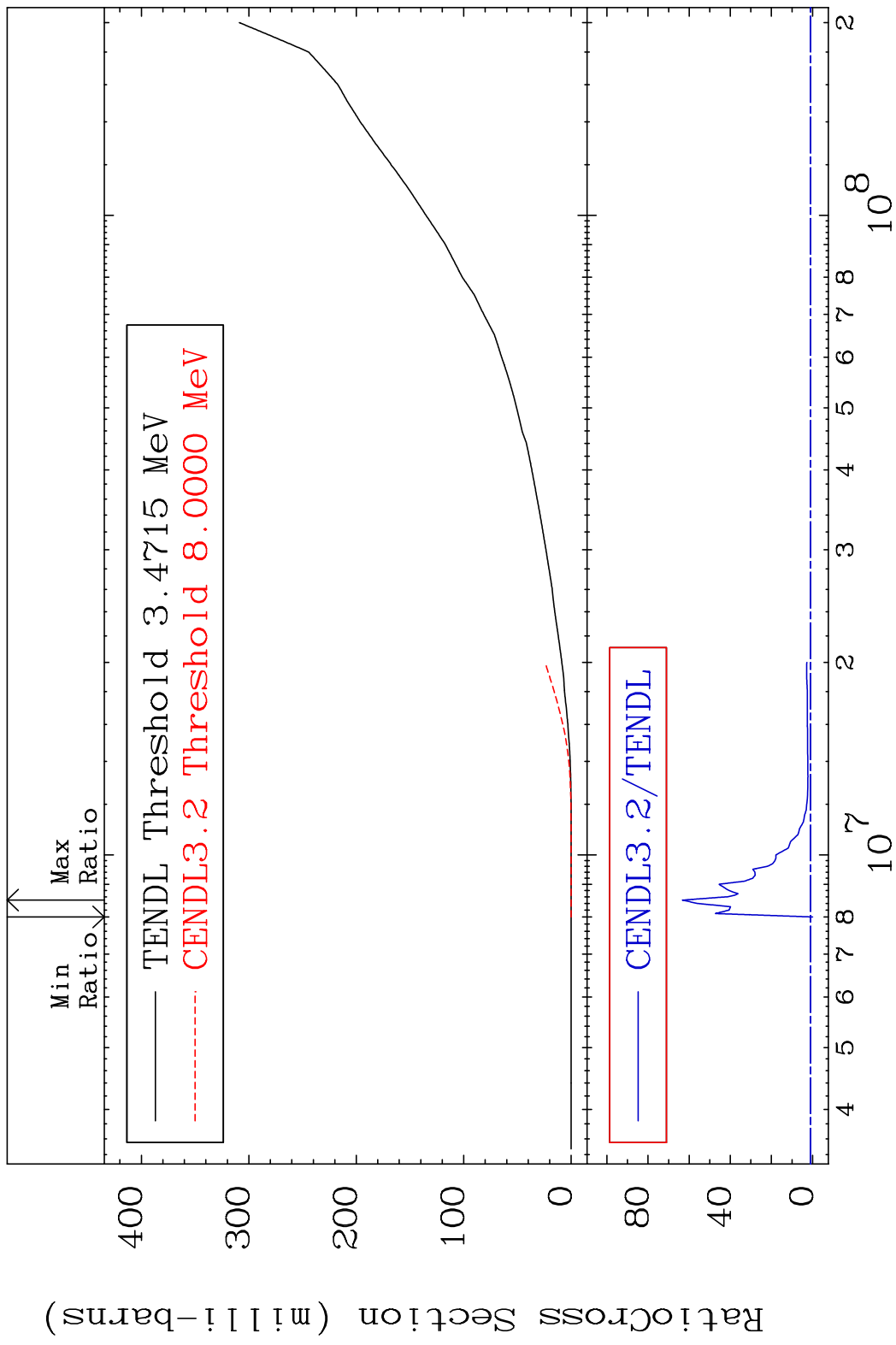
Incident Energy (eV)

63-Eu-153

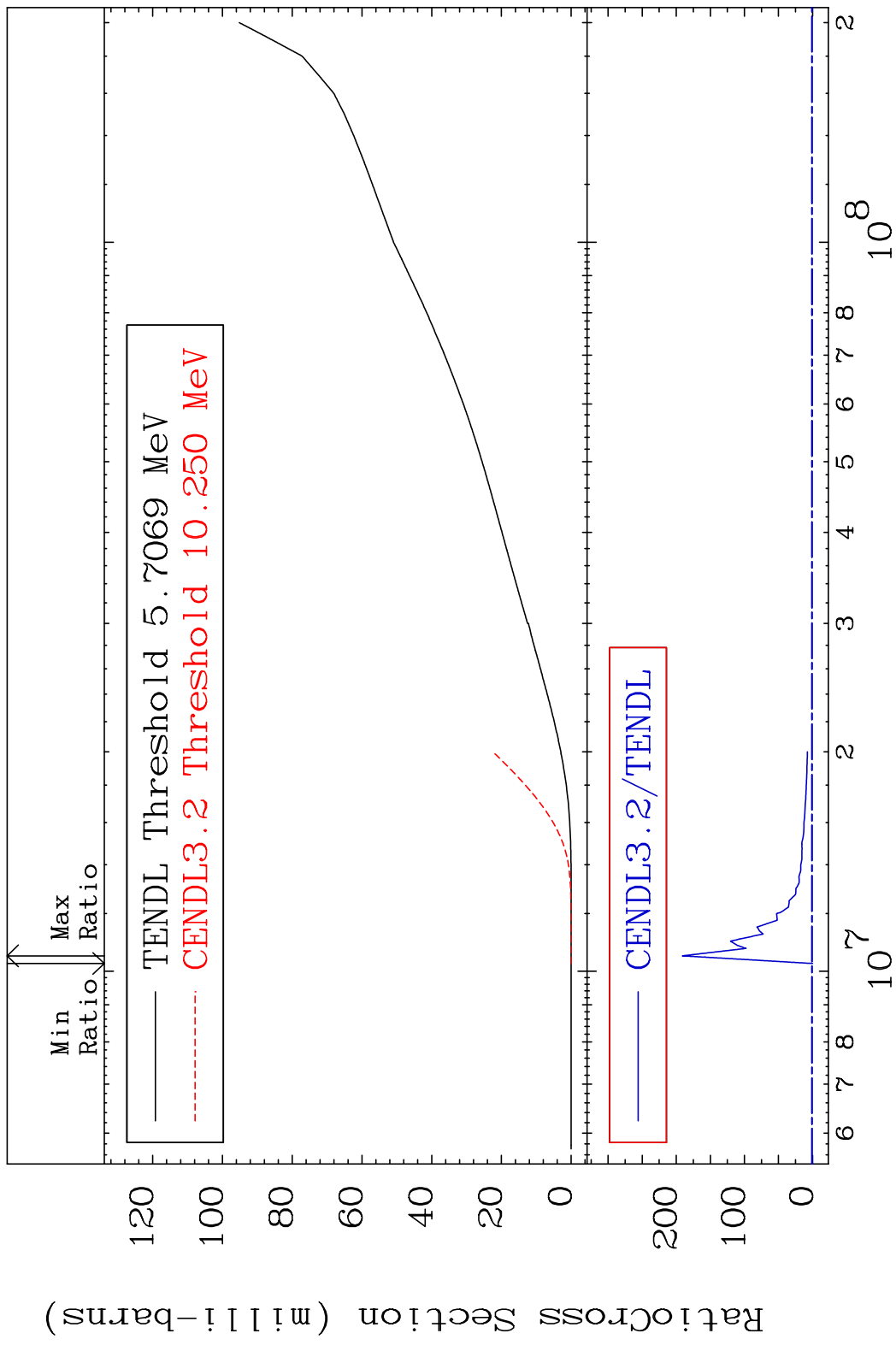
MAT 6331 Hydrogen Production 63-Eu-153  
 Cross Section -100.0 To 4.387 %



MAT 6331 Deuterium Production 63-Eu-153  
 Cross Section -100.0 To 6232. %



MAT 6331 Tritium Production 63-Eu-153  
 Cross Section -100.0 To 9999. %

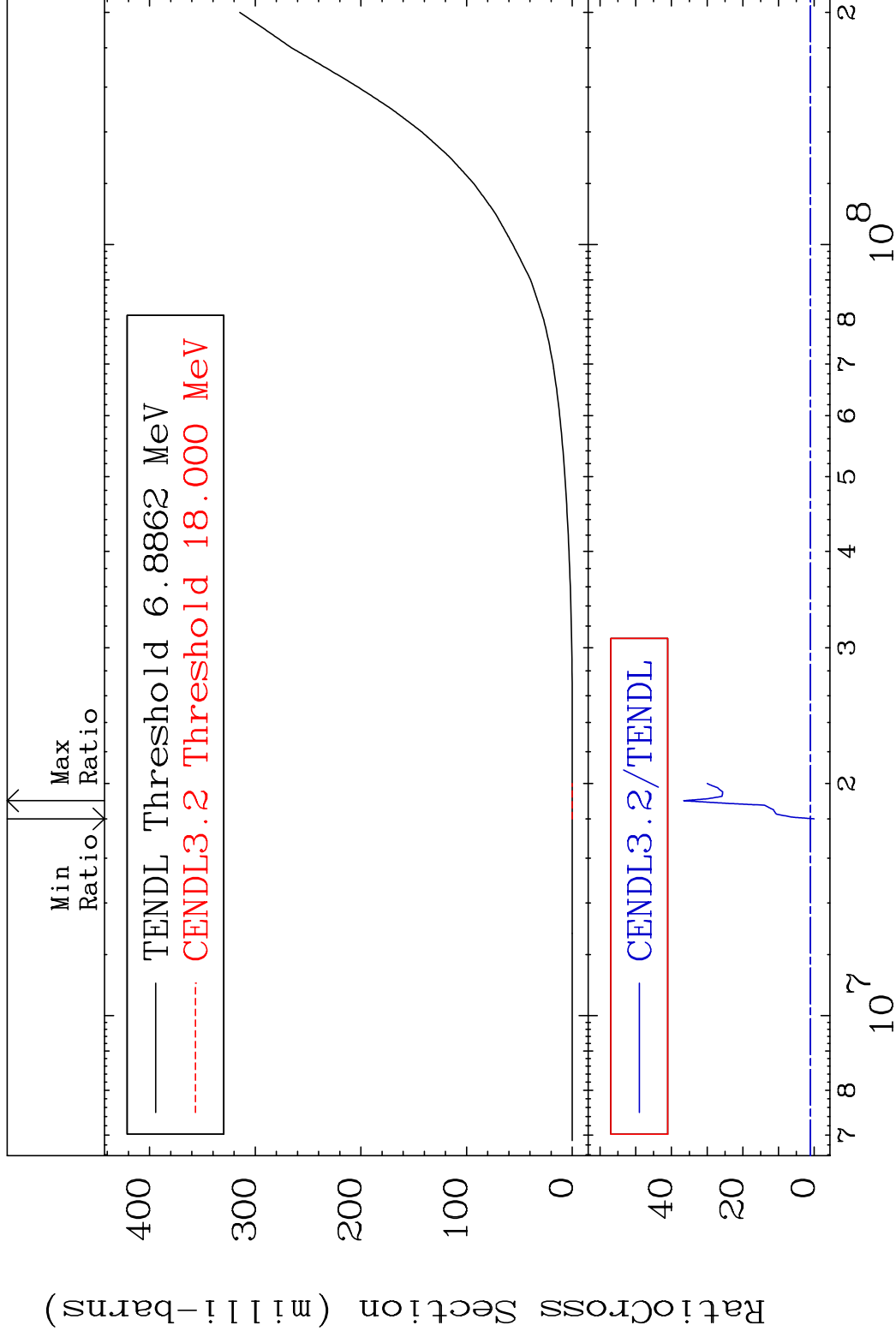


MAT 6331

He-3 Production

63-Eu-153

Cross Section -100.0 To 3558. %



29

Incident Energy (eV)

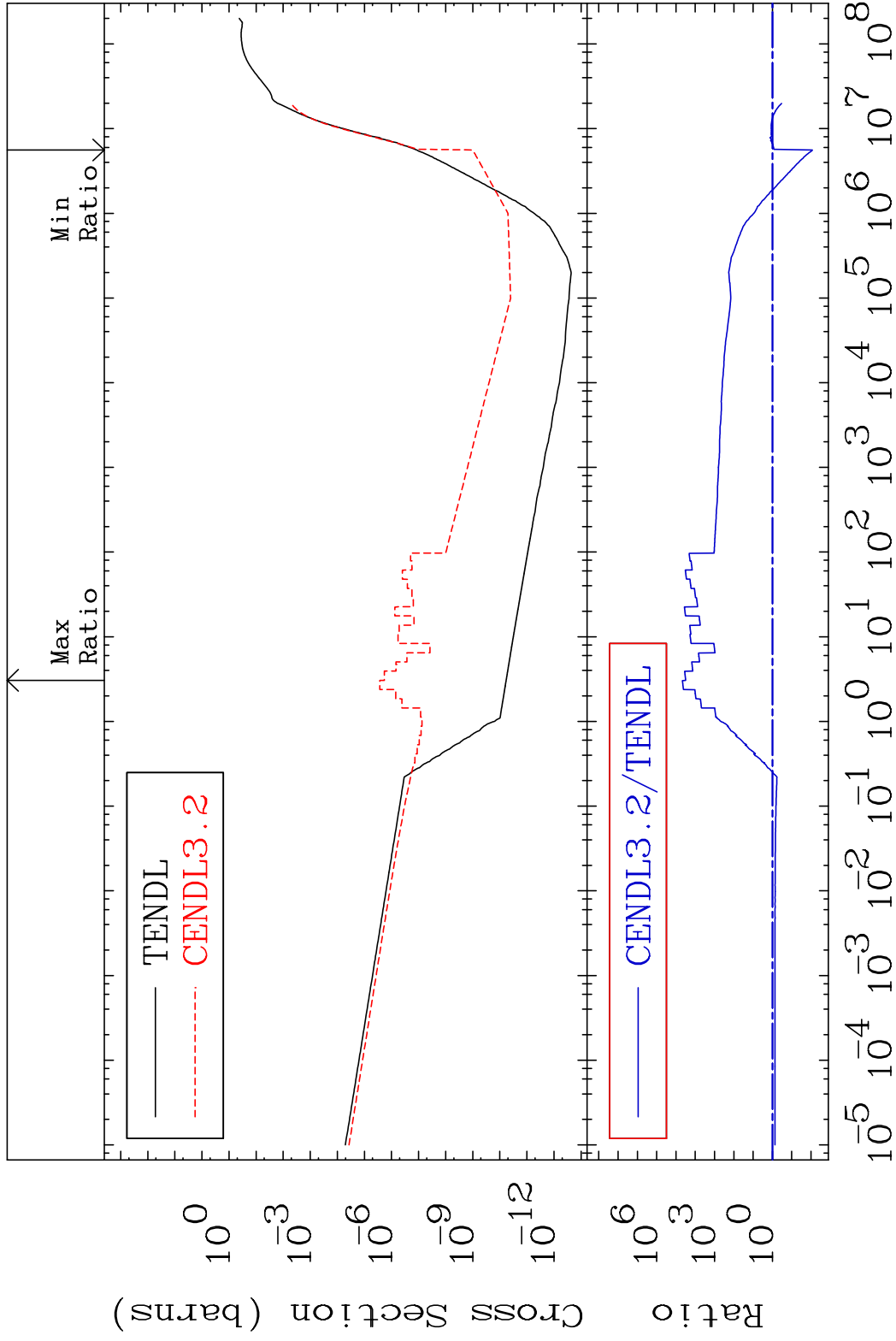
63-Eu-153

MAT 6331

He-4 Production

63-Eu-153

Cross Section -99.17 To 9999. %

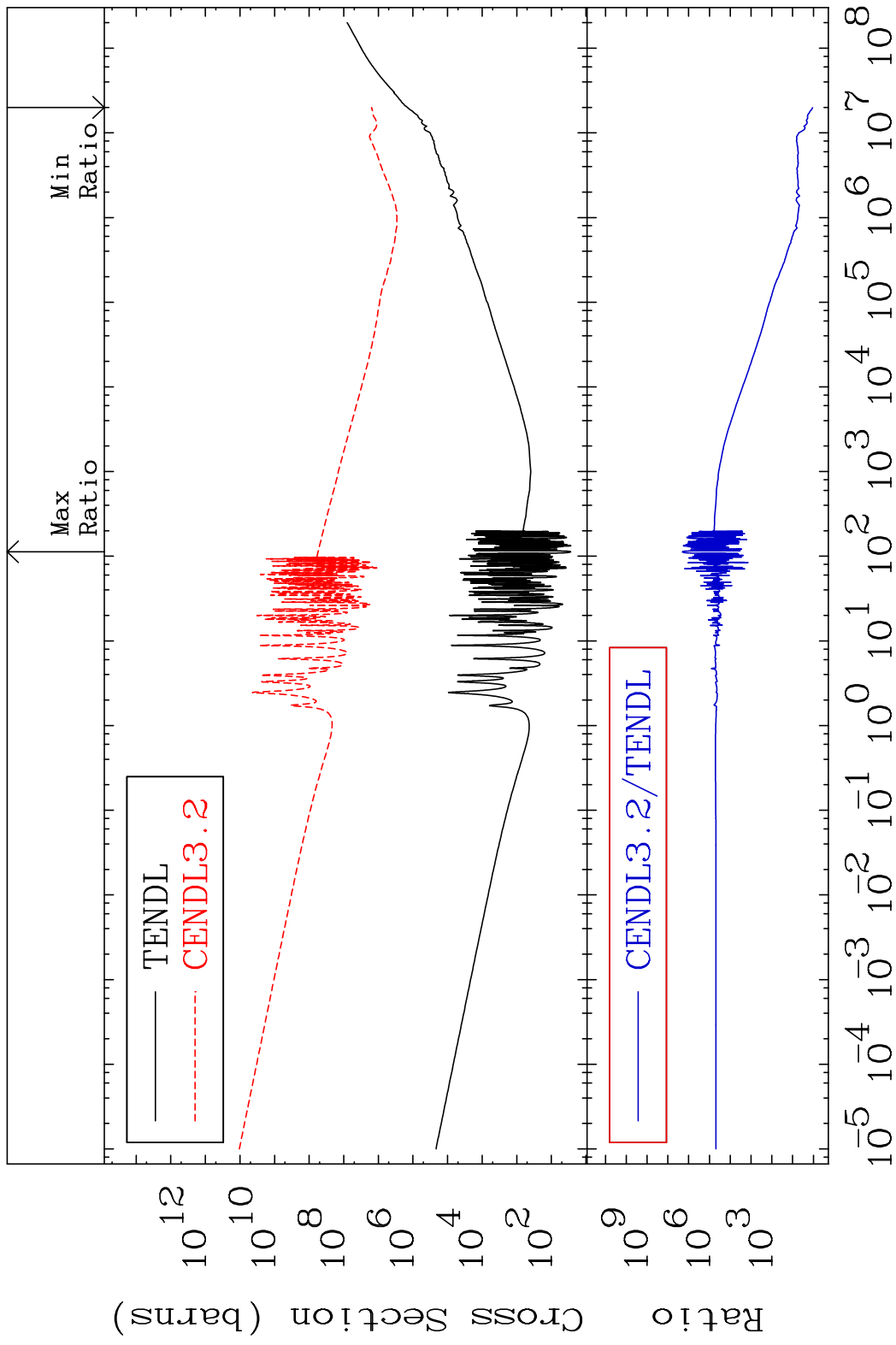


30

Incident Energy (eV)

63-Eu-153

MAT 6331 Kerma total (eV-barns) 63-Eu-153  
 Cross Section 1002. To 9999. %

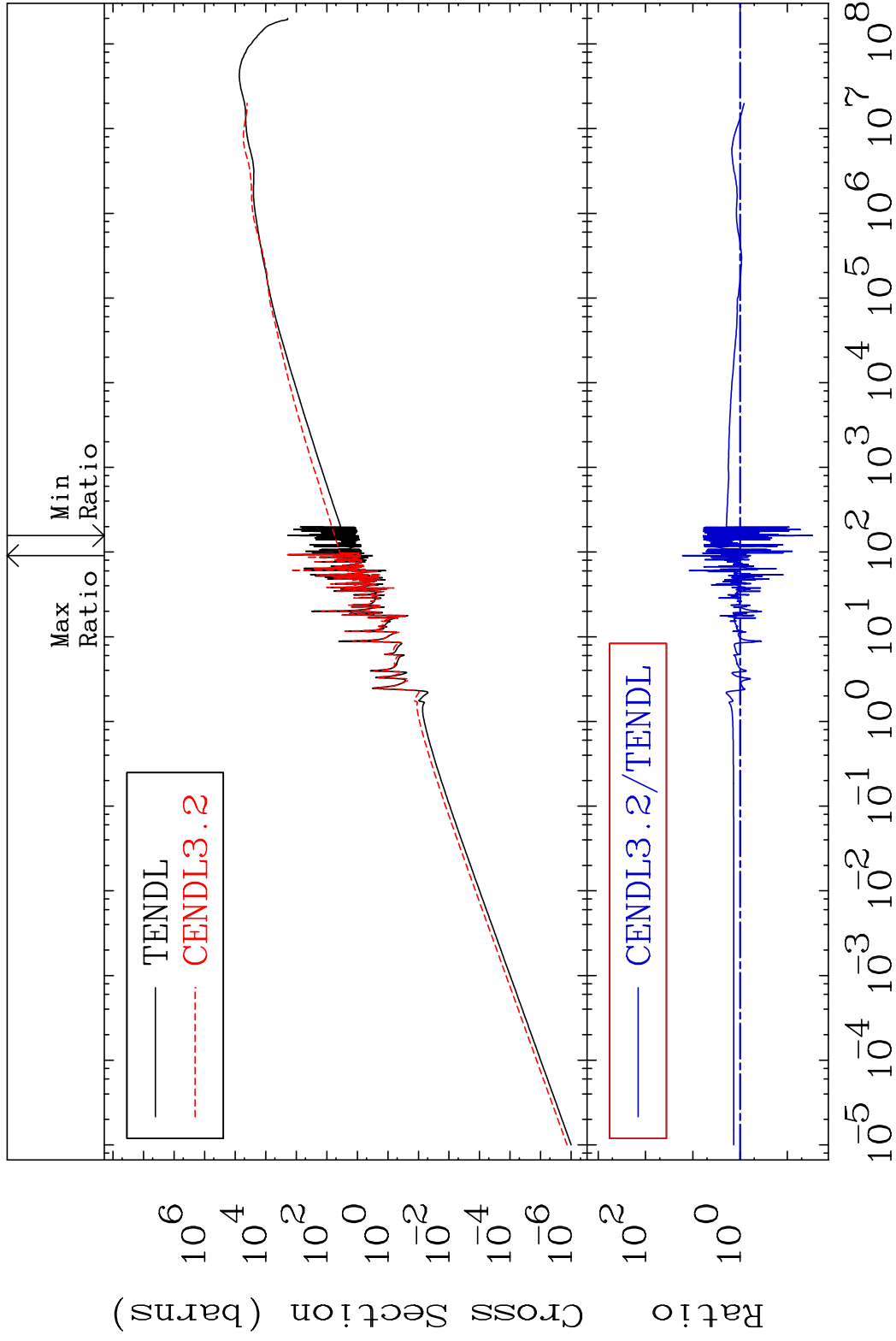




MAT 6331

Kerma elastic  
Cross Section

63-Eu-153  
-97.07 To 1561. %

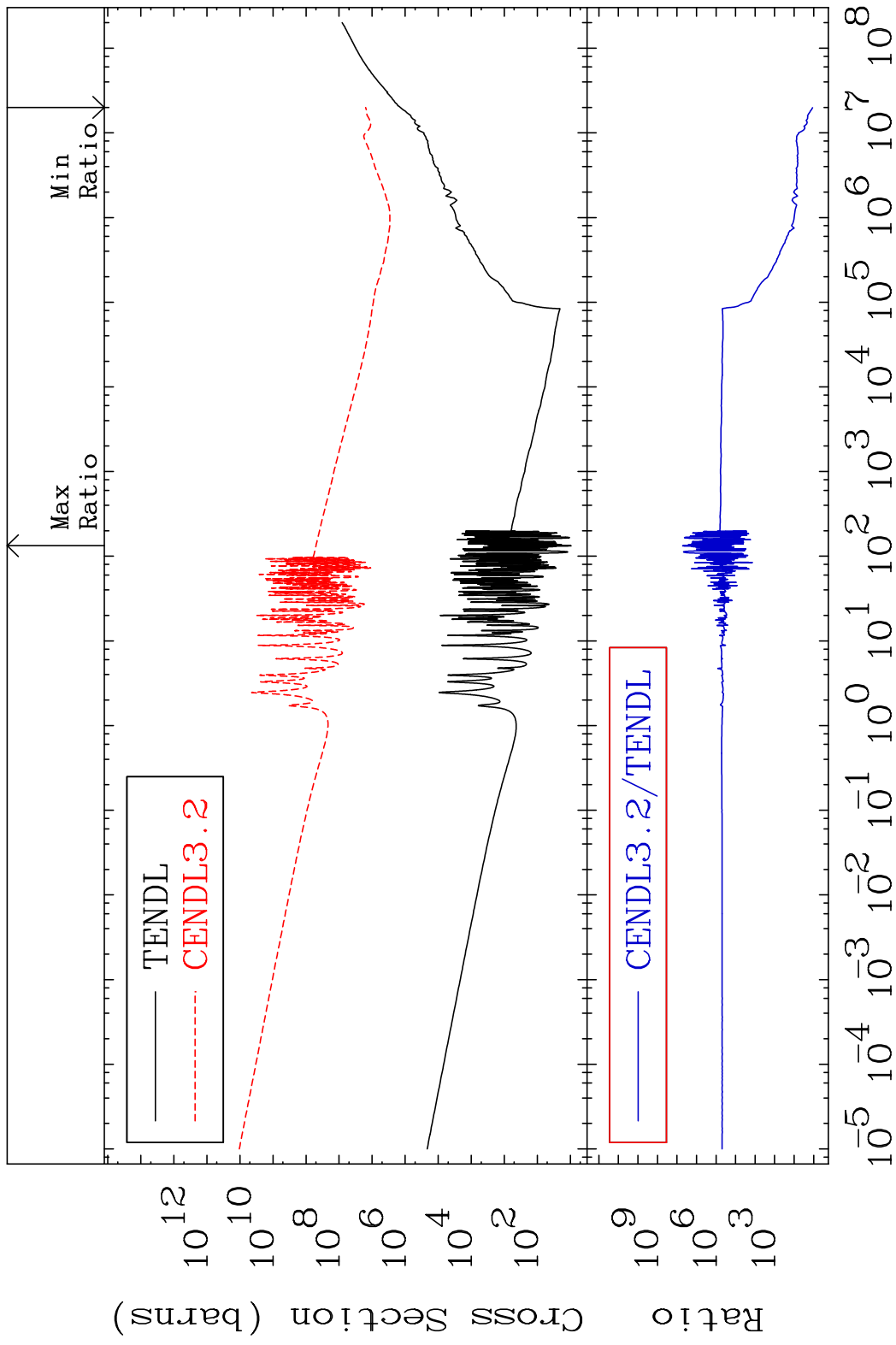


32

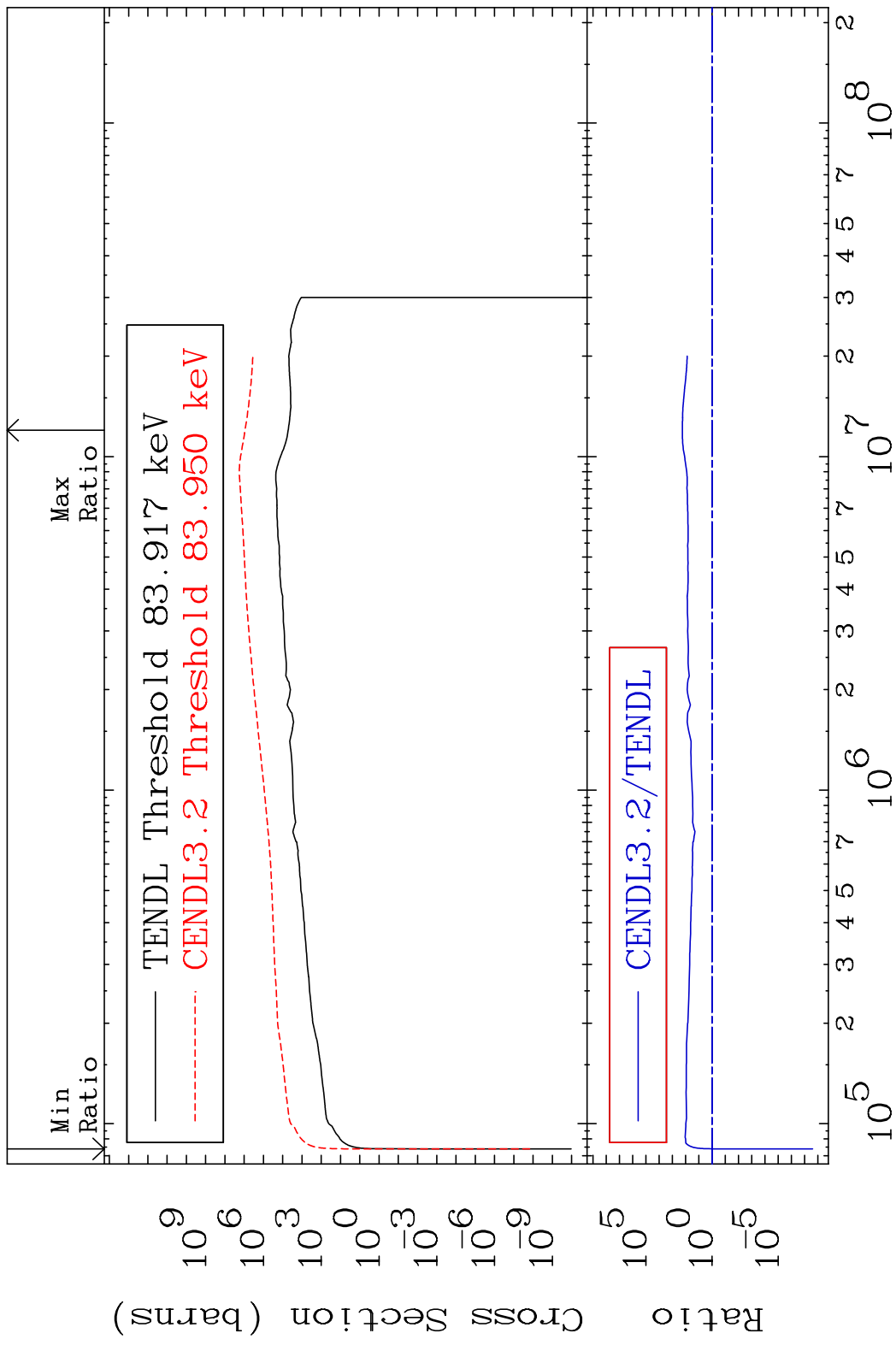
Incident Energy (eV)

63-Eu-153

MAT 6331 Kerma non-elastic (all but mt2) 63-Eu-153  
 Cross Section 1038. To 9999. %

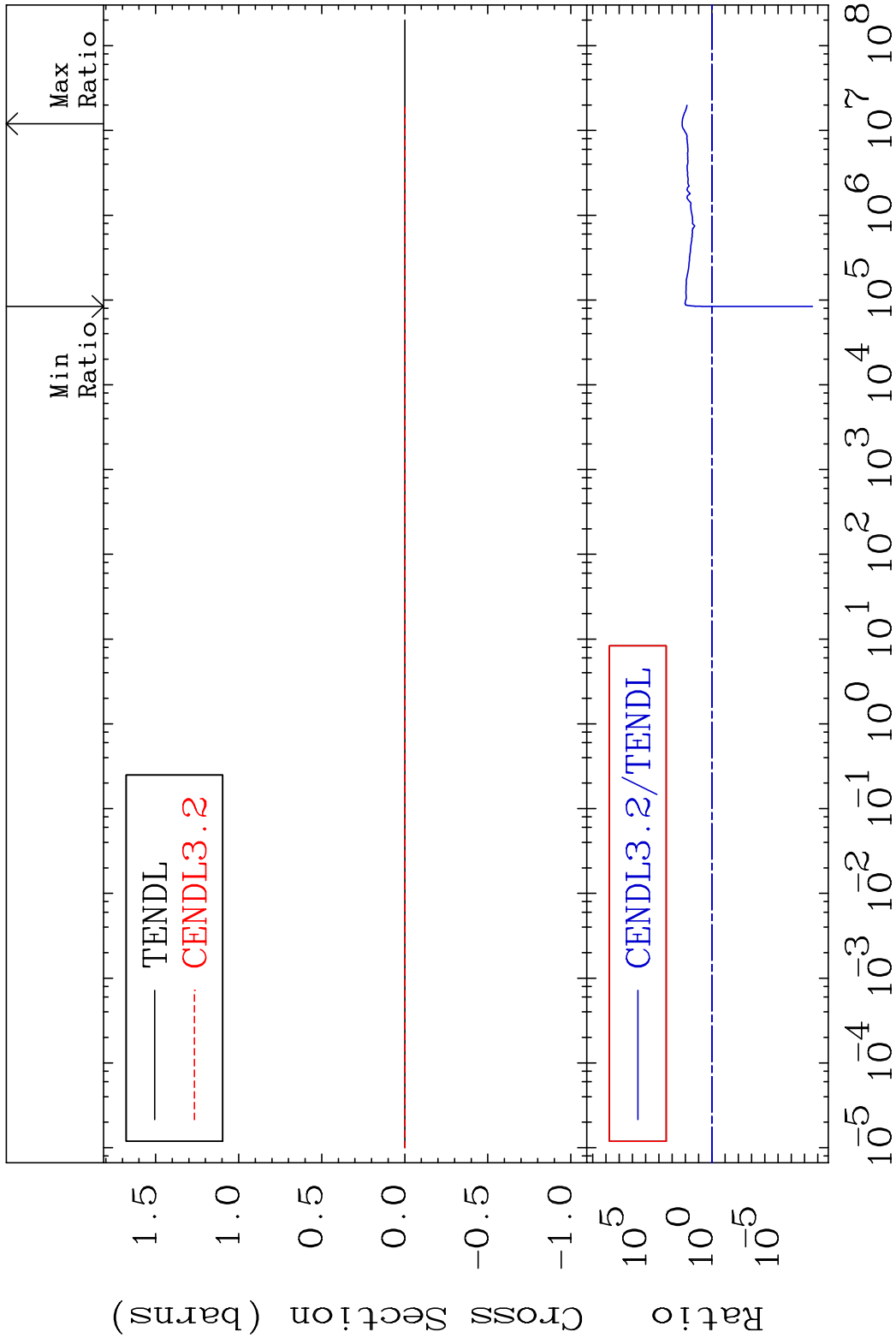


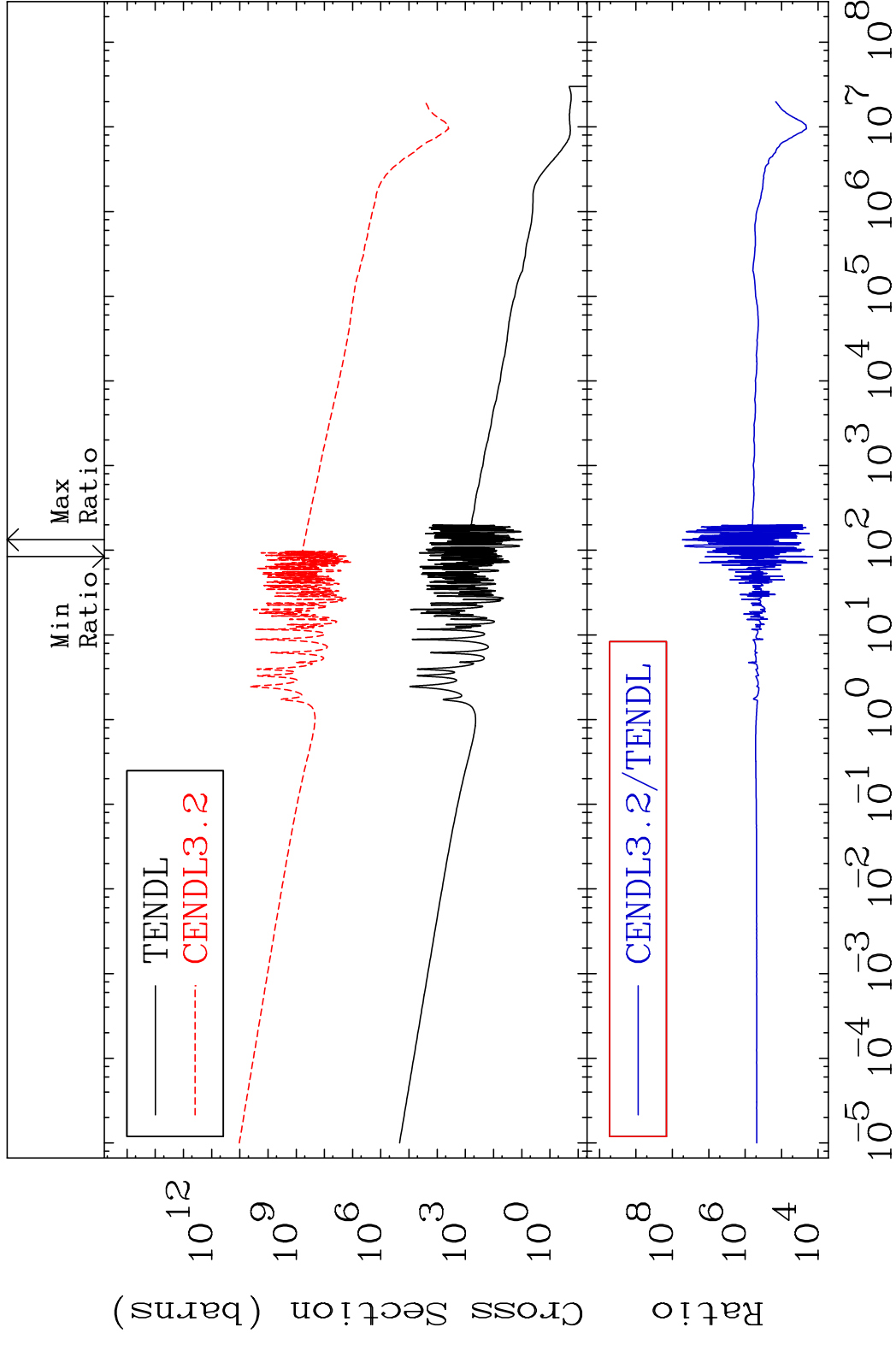
MAT 6331 Kerma inelastic (mt51-91) 63-Eu-153  
 Cross Section -100.0 To 9999. %



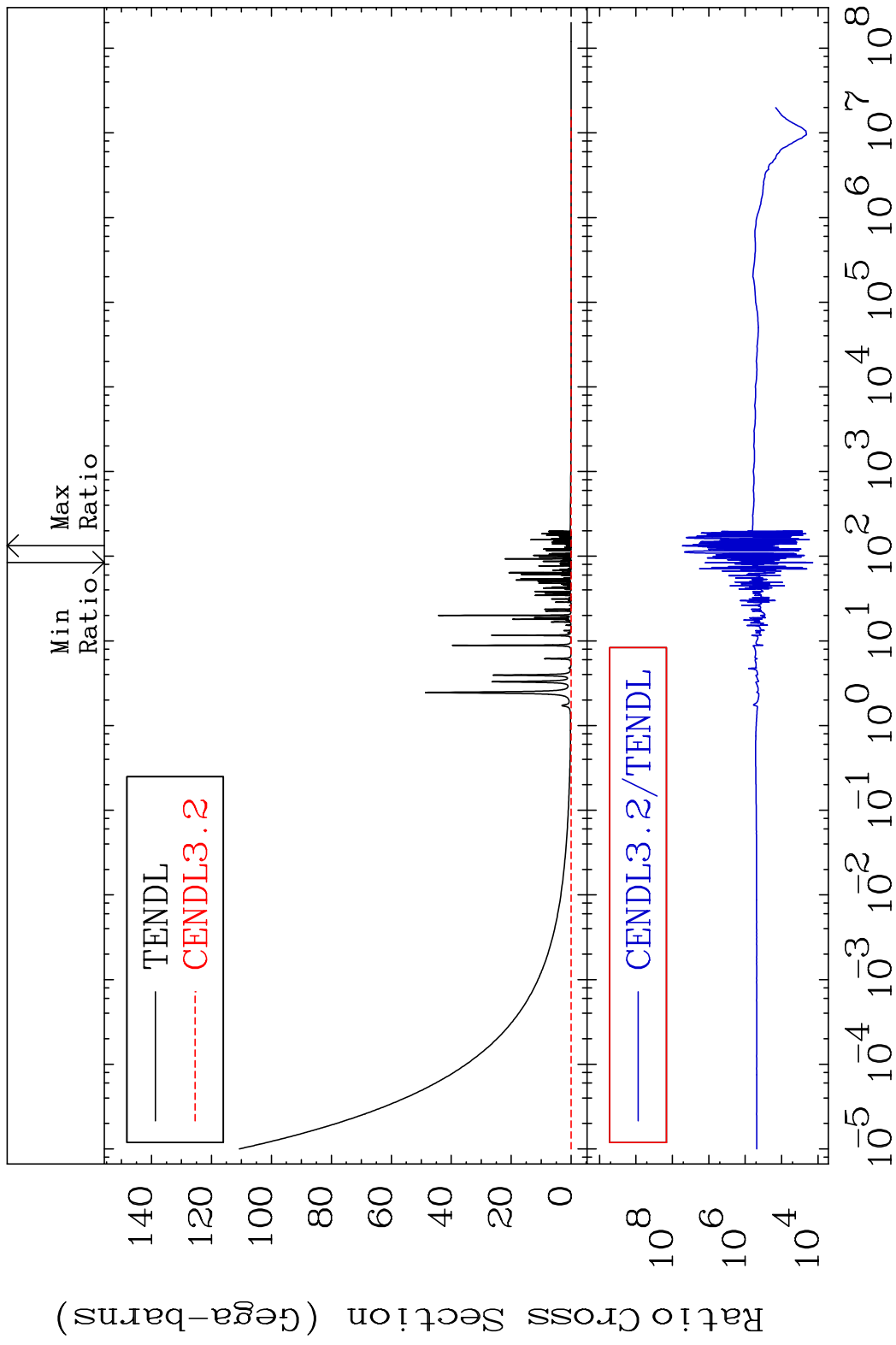
34 Incident Energy (eV) 63-Eu-153

MAT 6331 Kerma fission (mt18 or mt19-20-21-38)63-Eu-153  
 Cross Section -100.0 To 9999. %

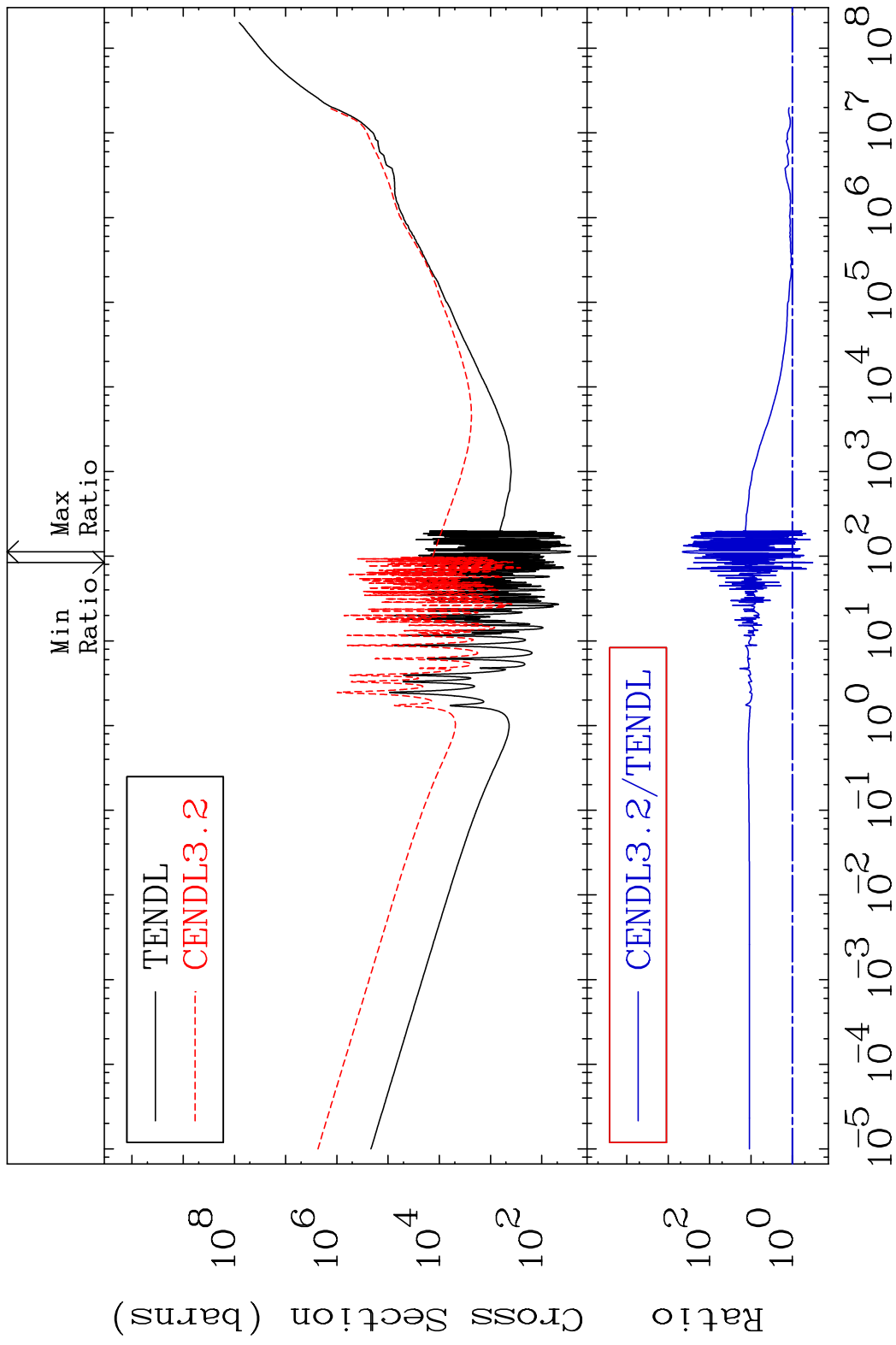




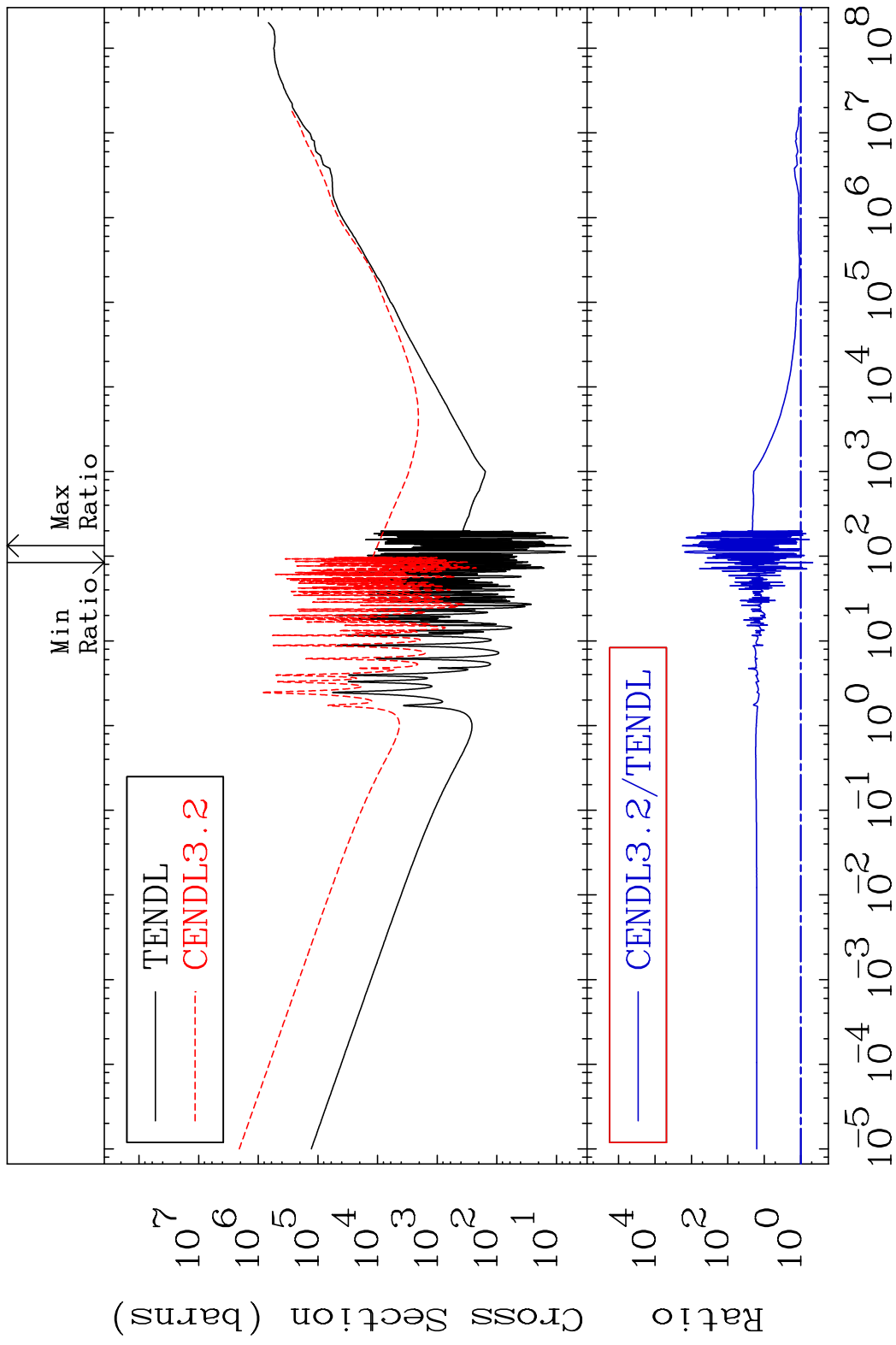
MAT 6331 Total photon (eV-barns) 63-Eu-153  
 Cross Section 9999. To 9999. %



MAT 6331 Total kinematic kerma (high limit) 63-Eu-153  
 Cross Section -67.58 To 9999. %



MAT 6331      Dpa total (eV-barns)      63-Eu-153  
 Cross Section      -52.92 To 9999. %



39      Incident Energy (eV)      63-Eu-153

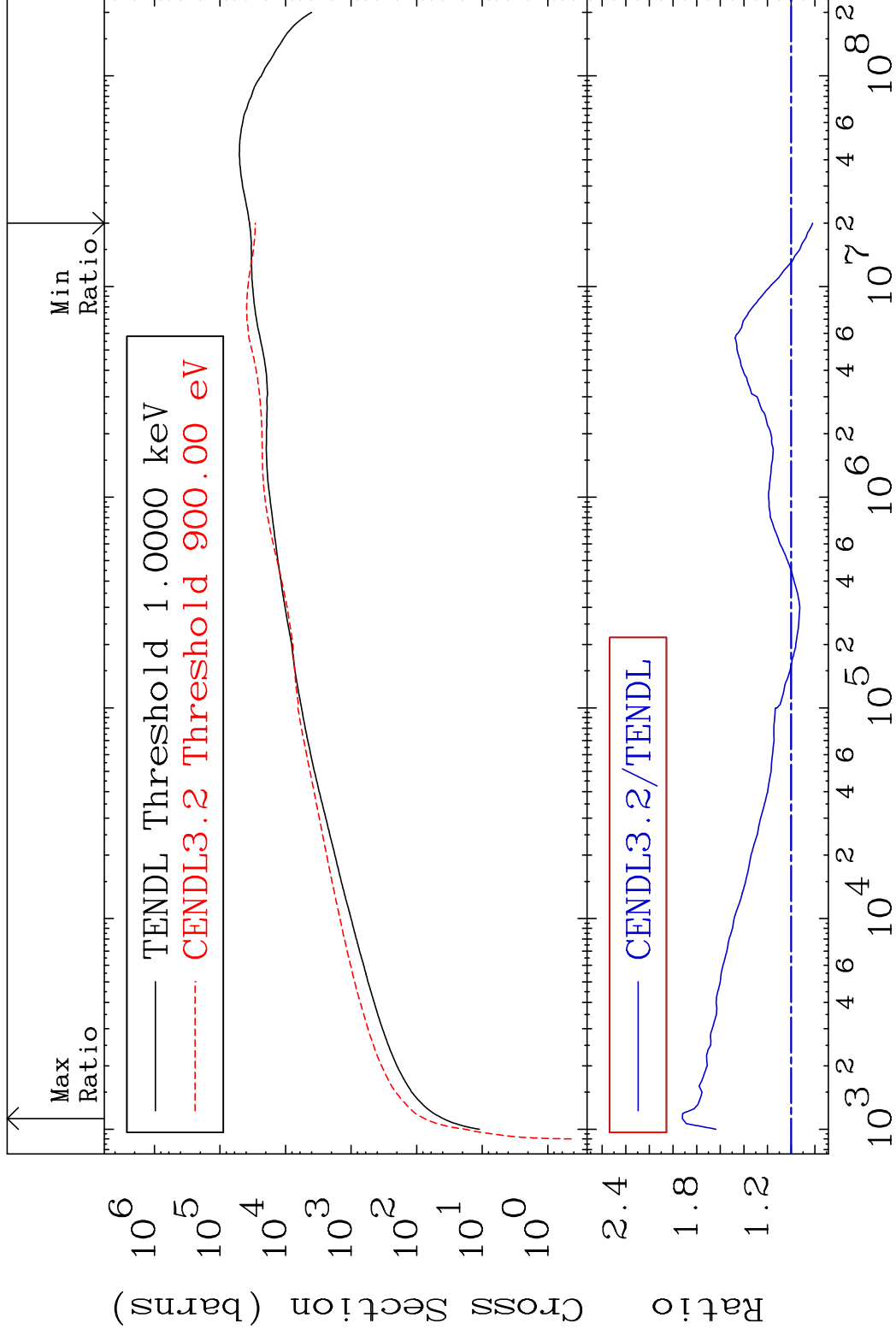


MAT 6331

Dpa elastic (mt2)

63-Eu-153

Cross Section -18.12 To 92.12 %

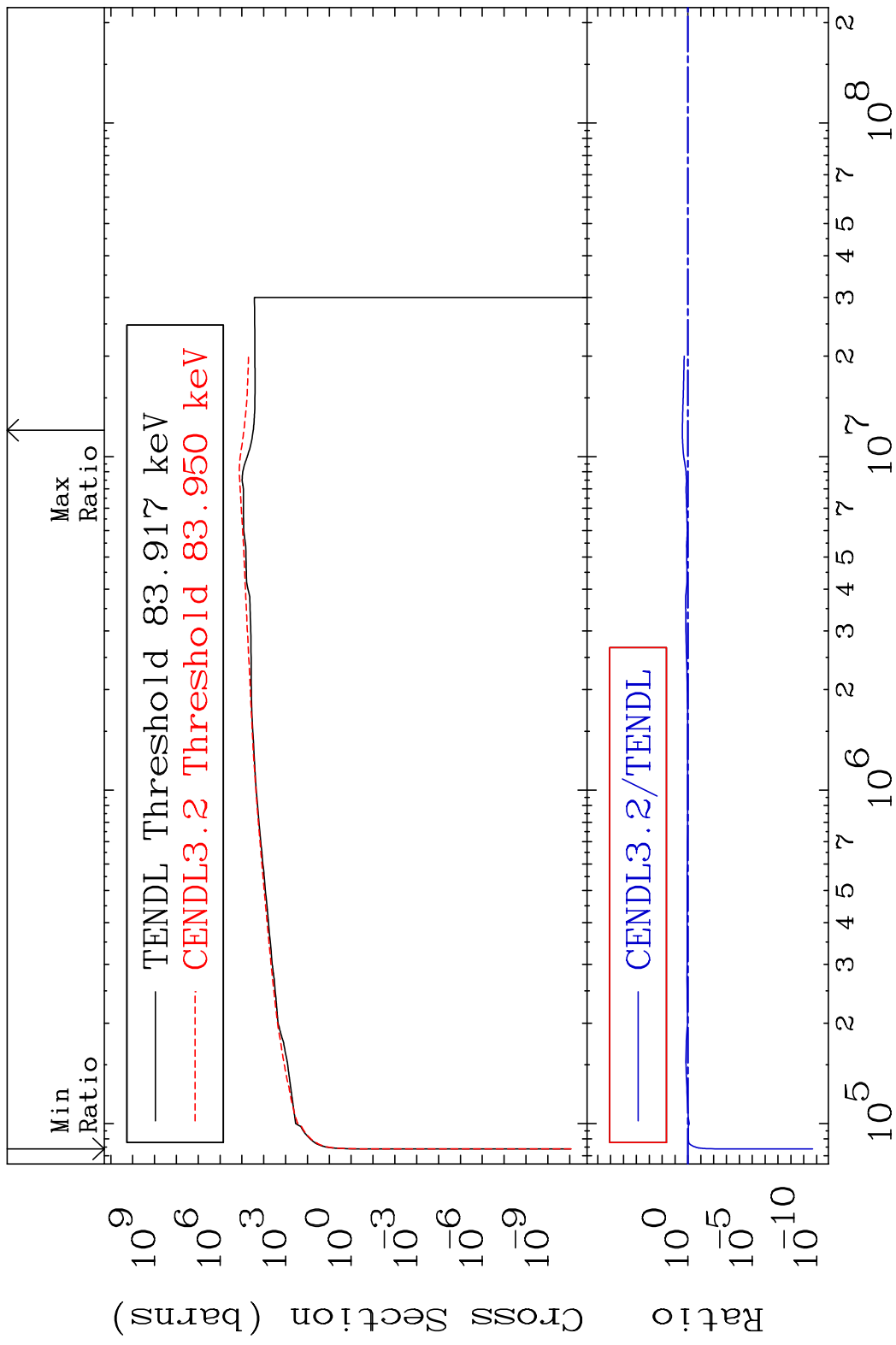


40

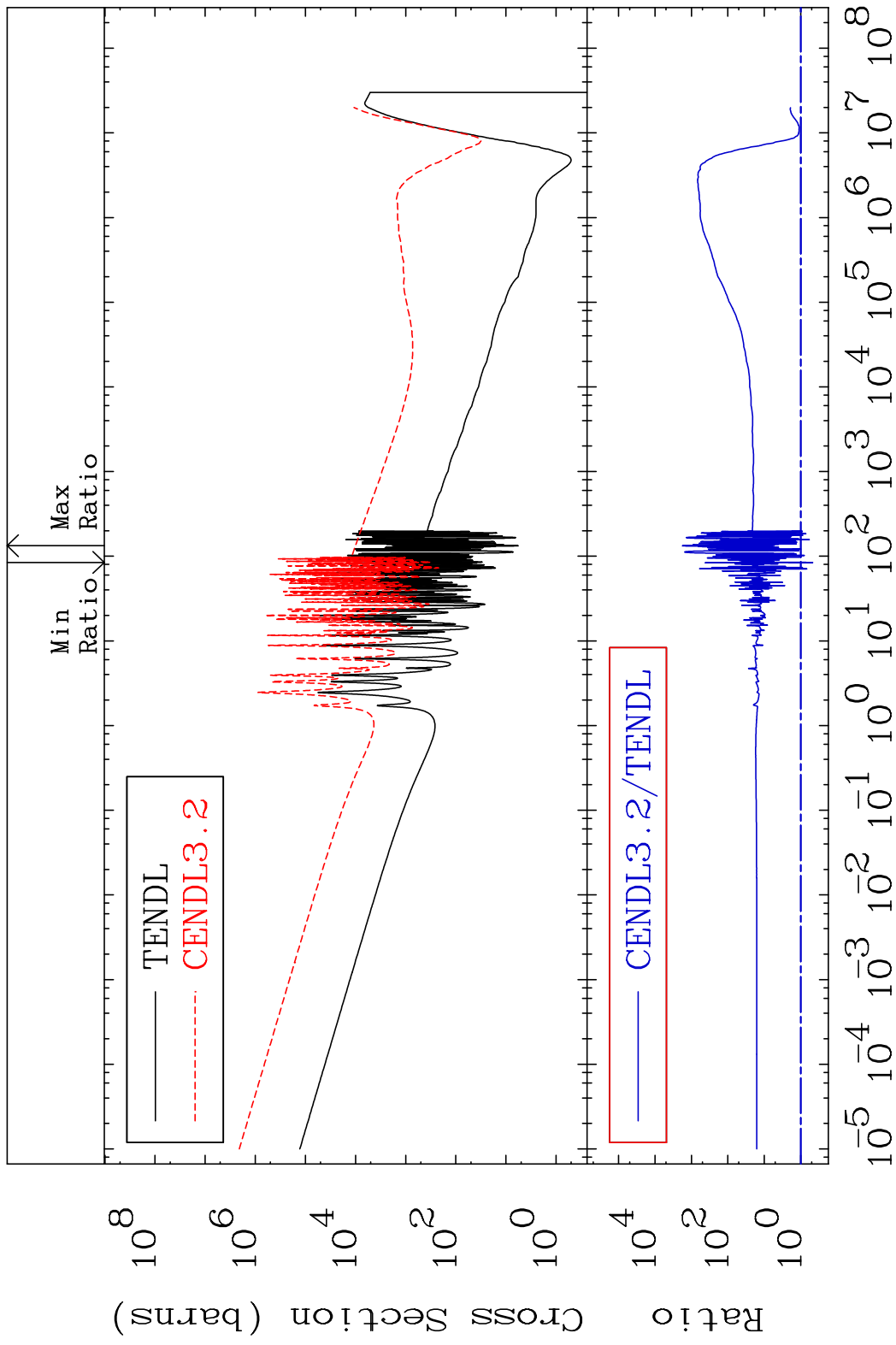
Incident Energy (eV)

63-Eu-153

MAT 6331 Dpa inelastic (mt51-91) 63-Eu-153  
 Cross Section -100.0 To 169.4 %



MAT 6331 Dpa disappearance (mt102 -120) 63-Eu-153  
 Cross Section -52.92 To 9999. %

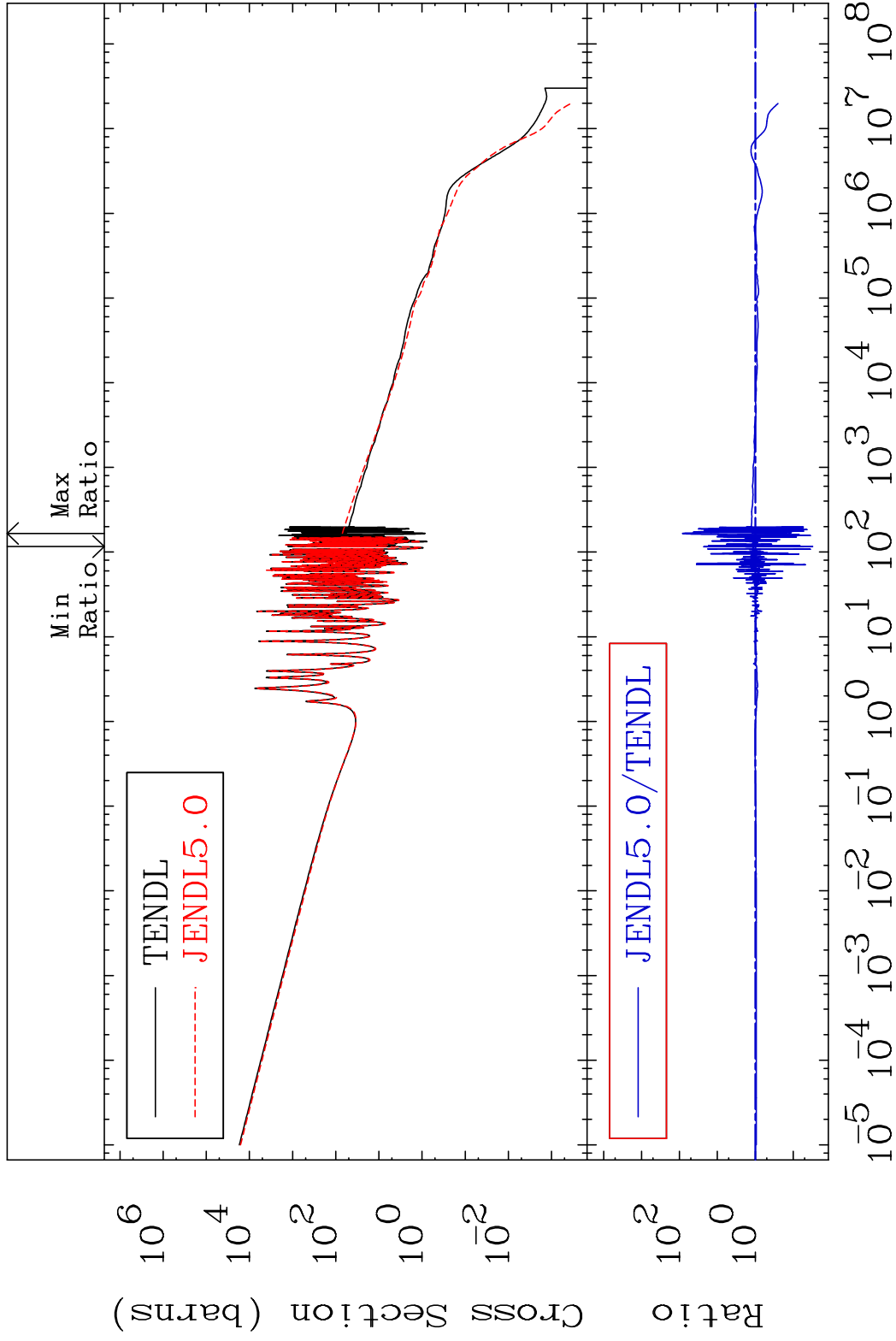


MAT 6331

(n,  $\gamma$ )

63-Eu-153

Cross Section -96.92 To 8295. %



43

Incident Energy (eV)

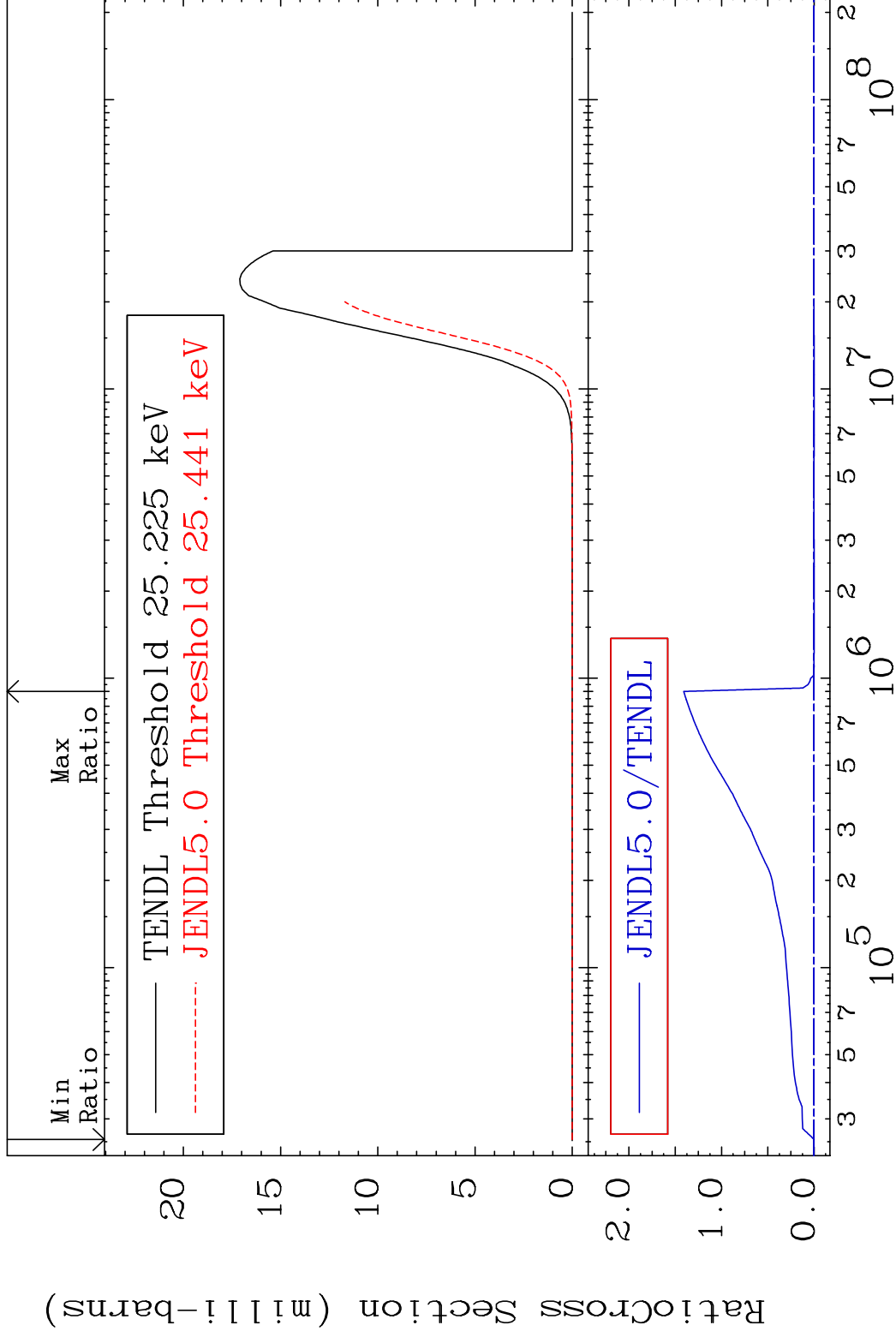
63-Eu-153

MAT 6331

(n,p)

63-Eu-153

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

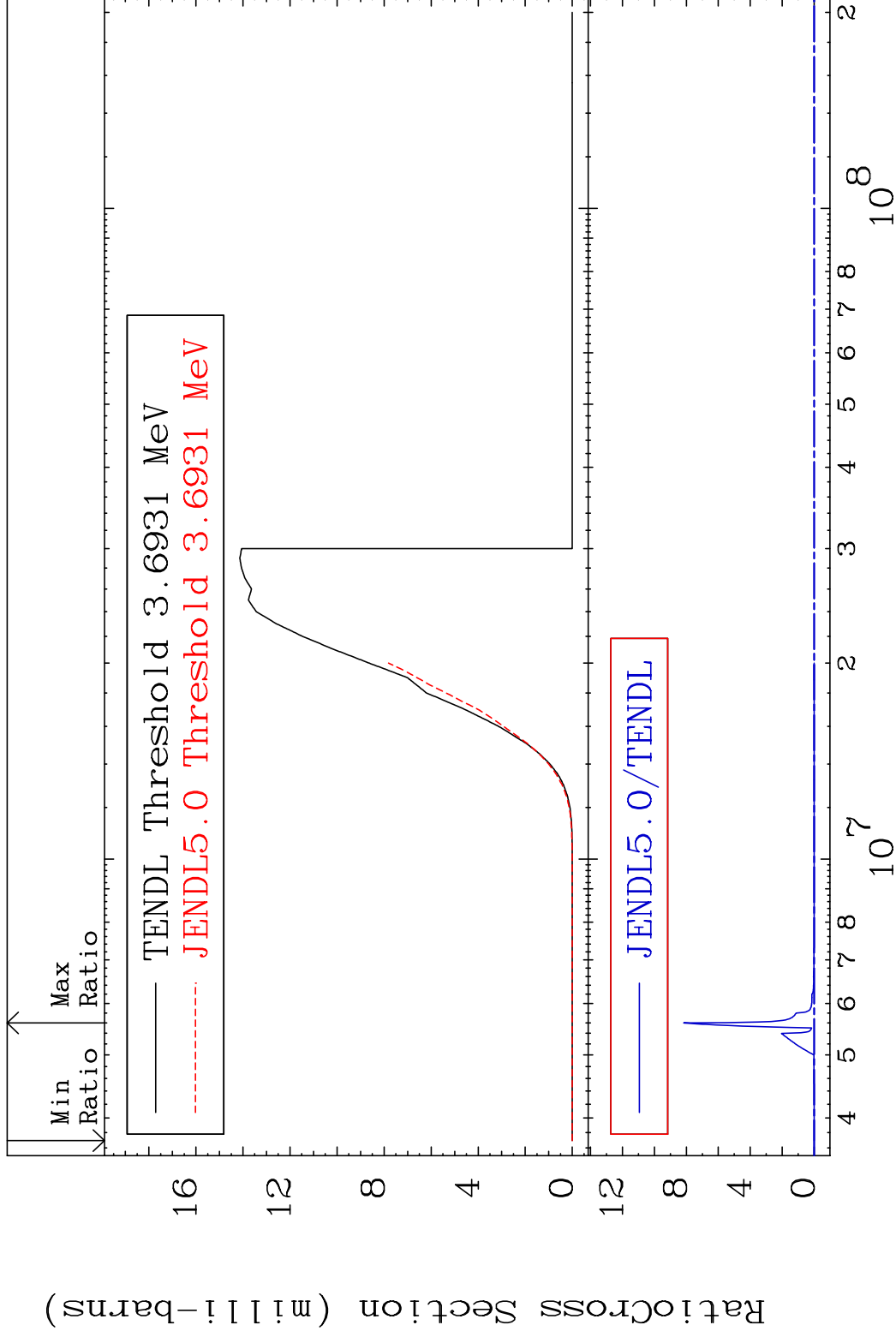
63-Eu-153

MAT 6331

(n,d)

63-Eu-153

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

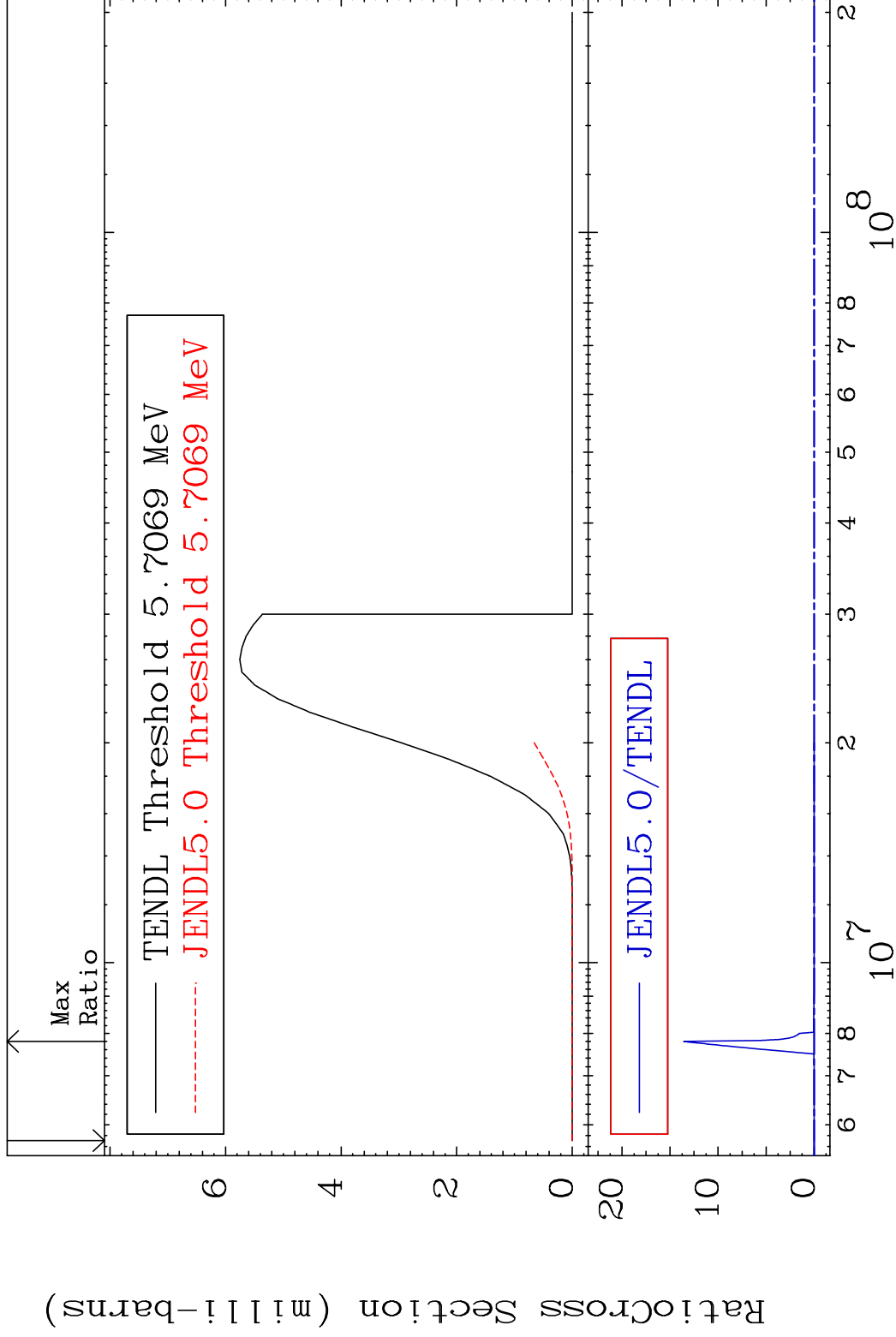
63-Eu-153

MAT 6331

(n, t)

63-Eu-153

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

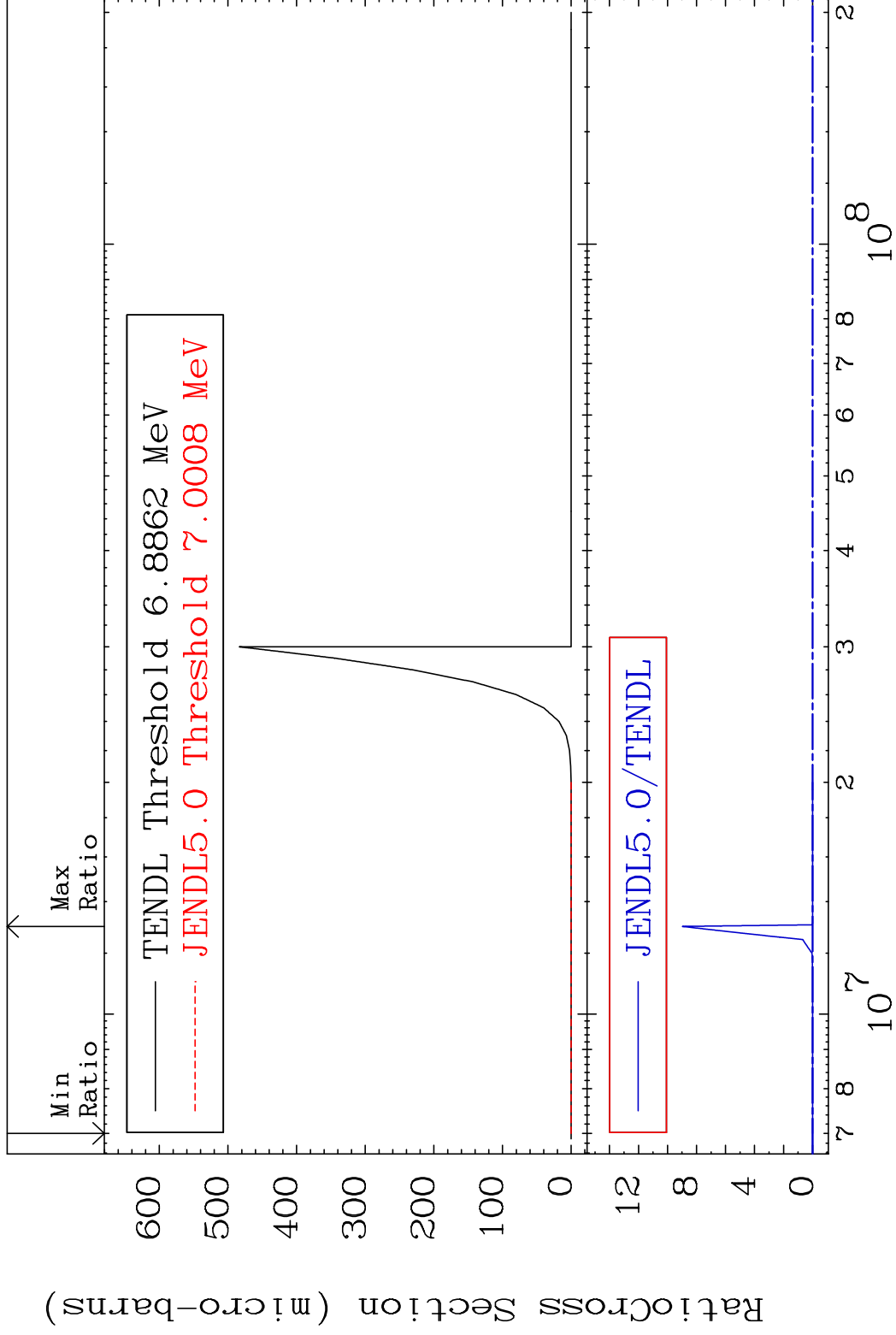
63-Eu-153

MAT 6331

(n, He-3)

63-Eu-153

Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

63-Eu-153

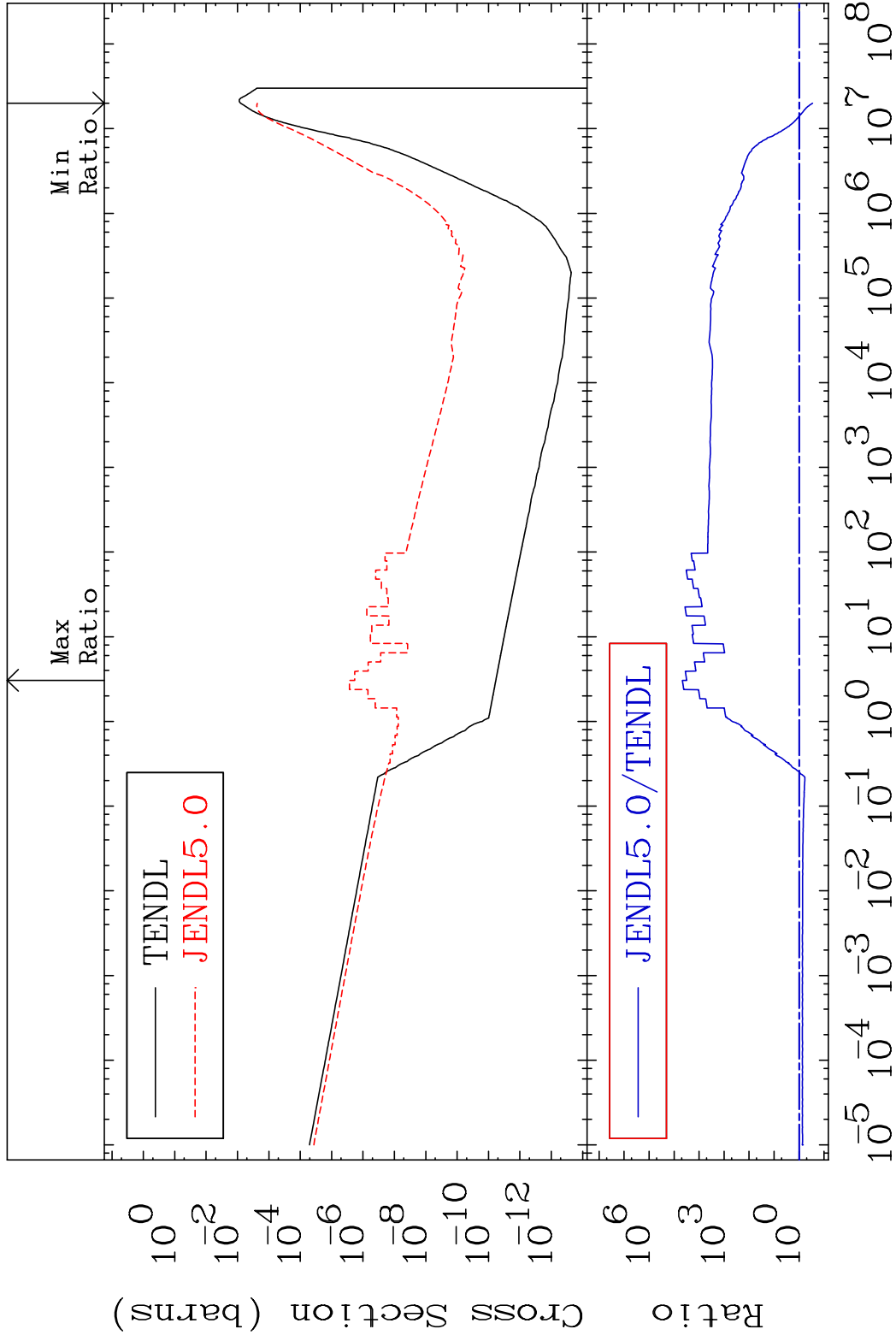


MAT 6331

(n,  $\alpha$ )

63-Eu-153

Cross Section -71.07 To 9999. %



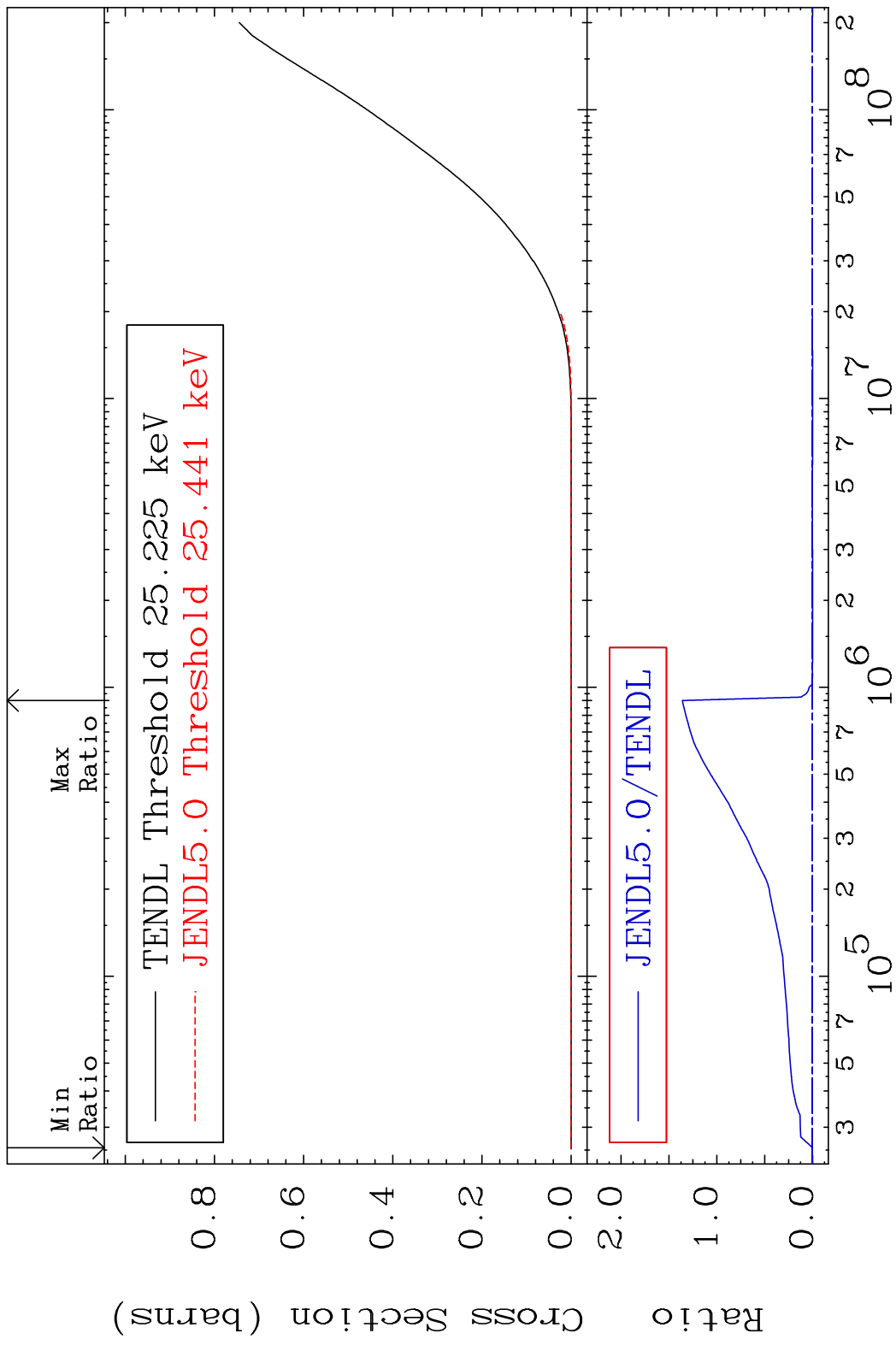
Max Ratio

Min Ratio

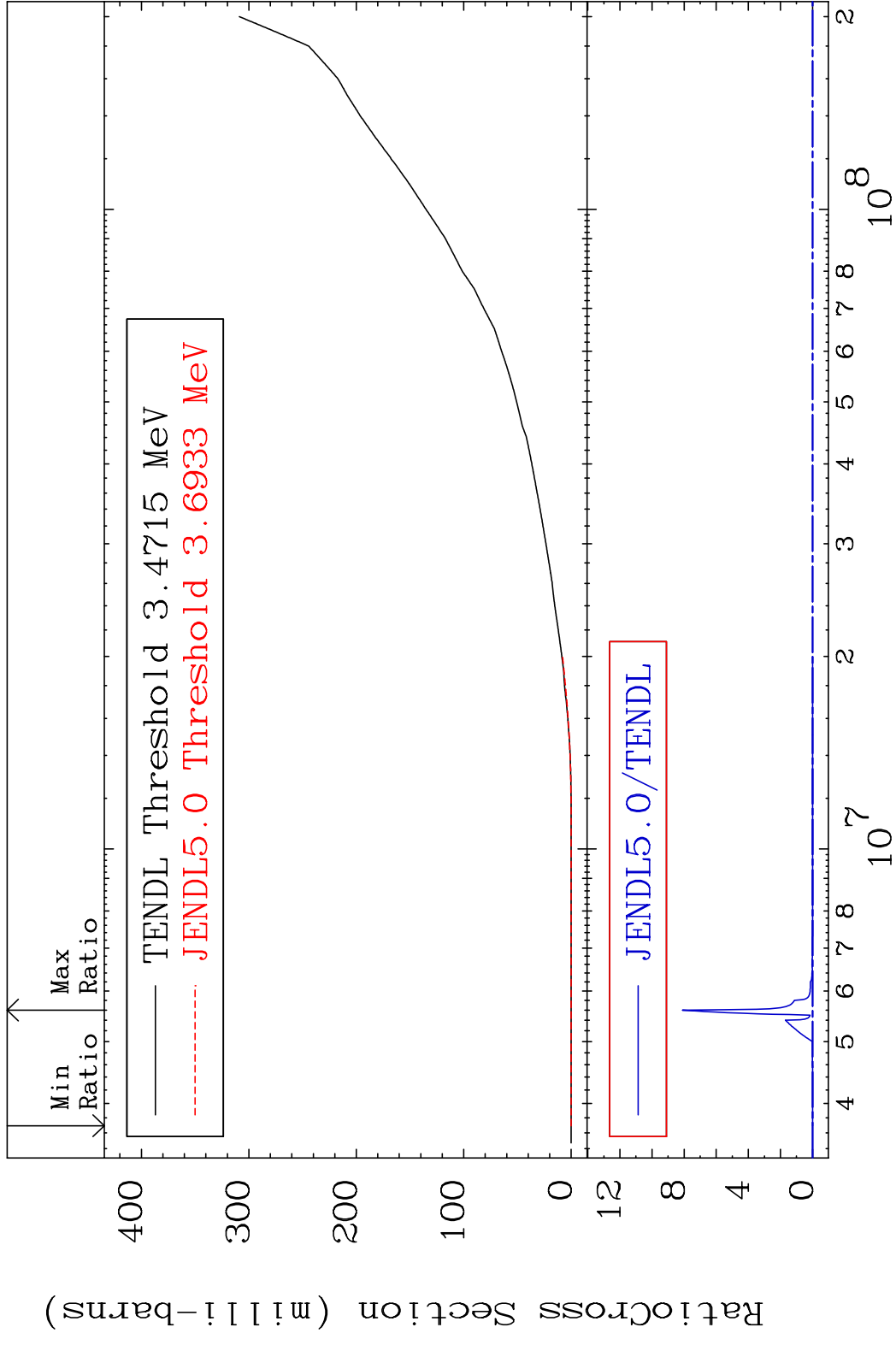
TENDL  
JENDL5.0

JENDL5.0/TENDL

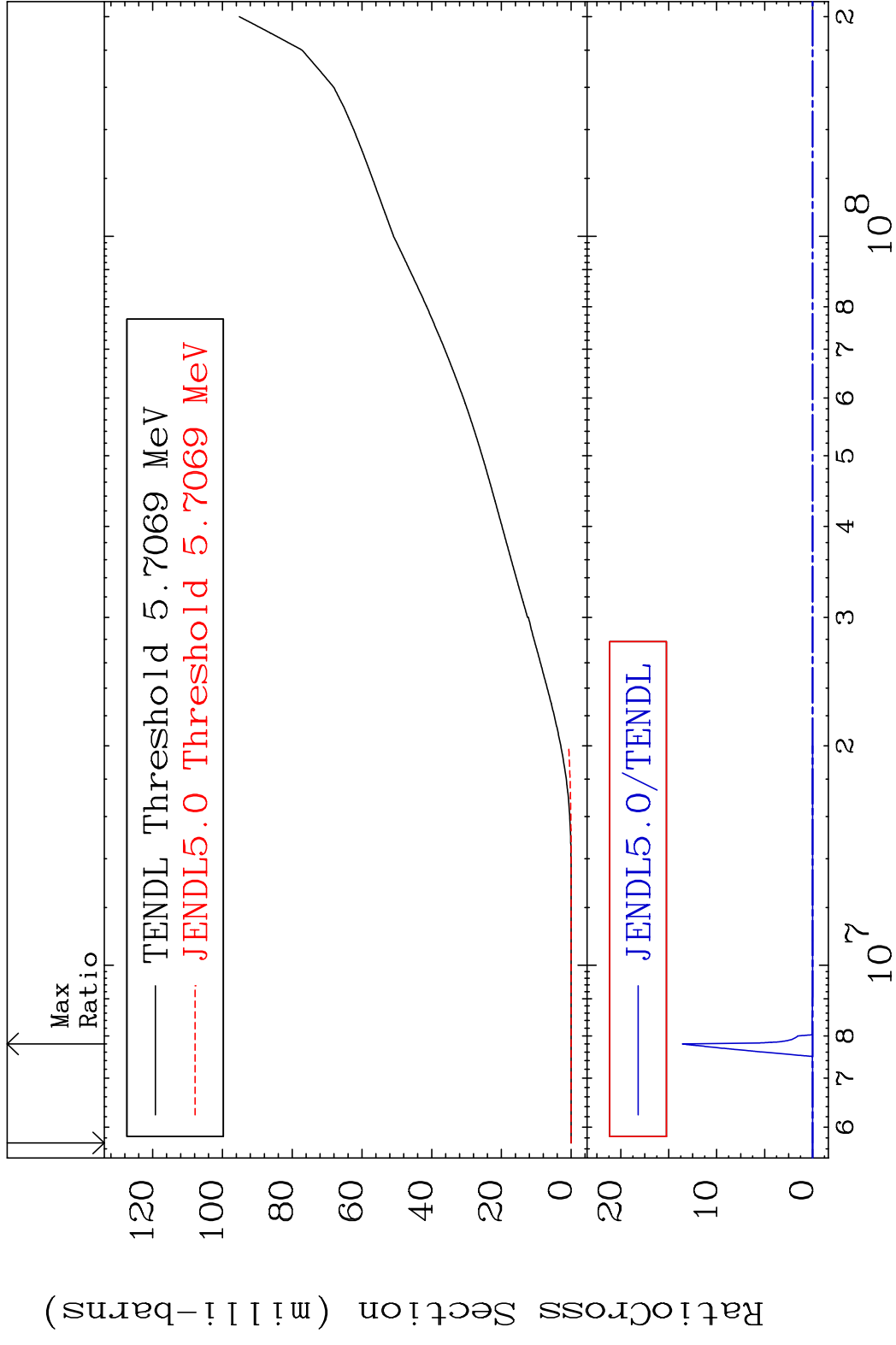
MAT 6331 Hydrogen Production 63-Eu-153  
 Cross Section -100.0 To 9999. %



MAT 6331 Deuterium Production 63-Eu-153  
 Cross Section -100.0 To 9999. %



MAT 6331 Tritium Production 63-Eu-153  
 Cross Section -100.0 To 9999. %

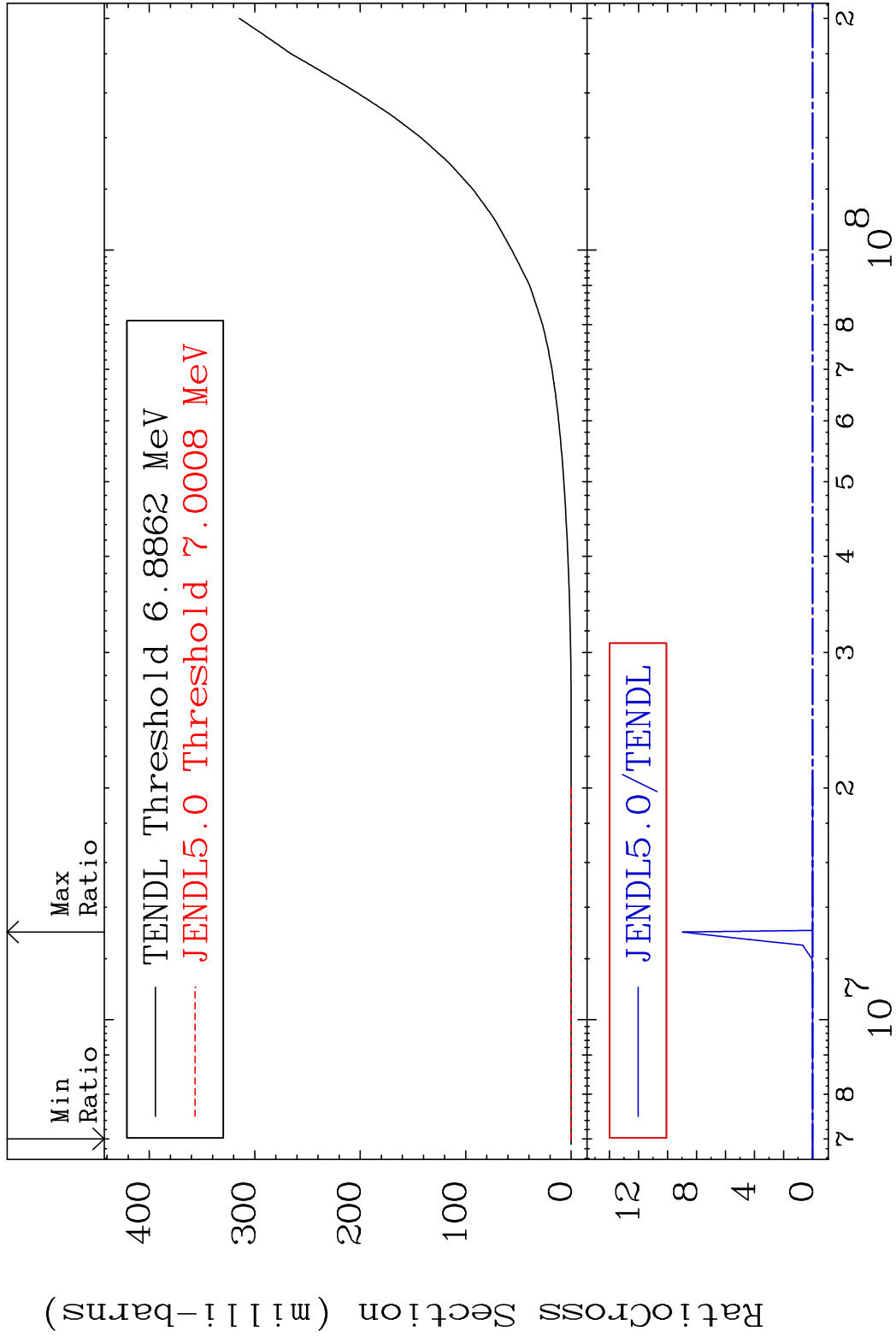


MAT 6331

He-3 Production

63-Eu-153

Cross Section -100.0 To 9999. %

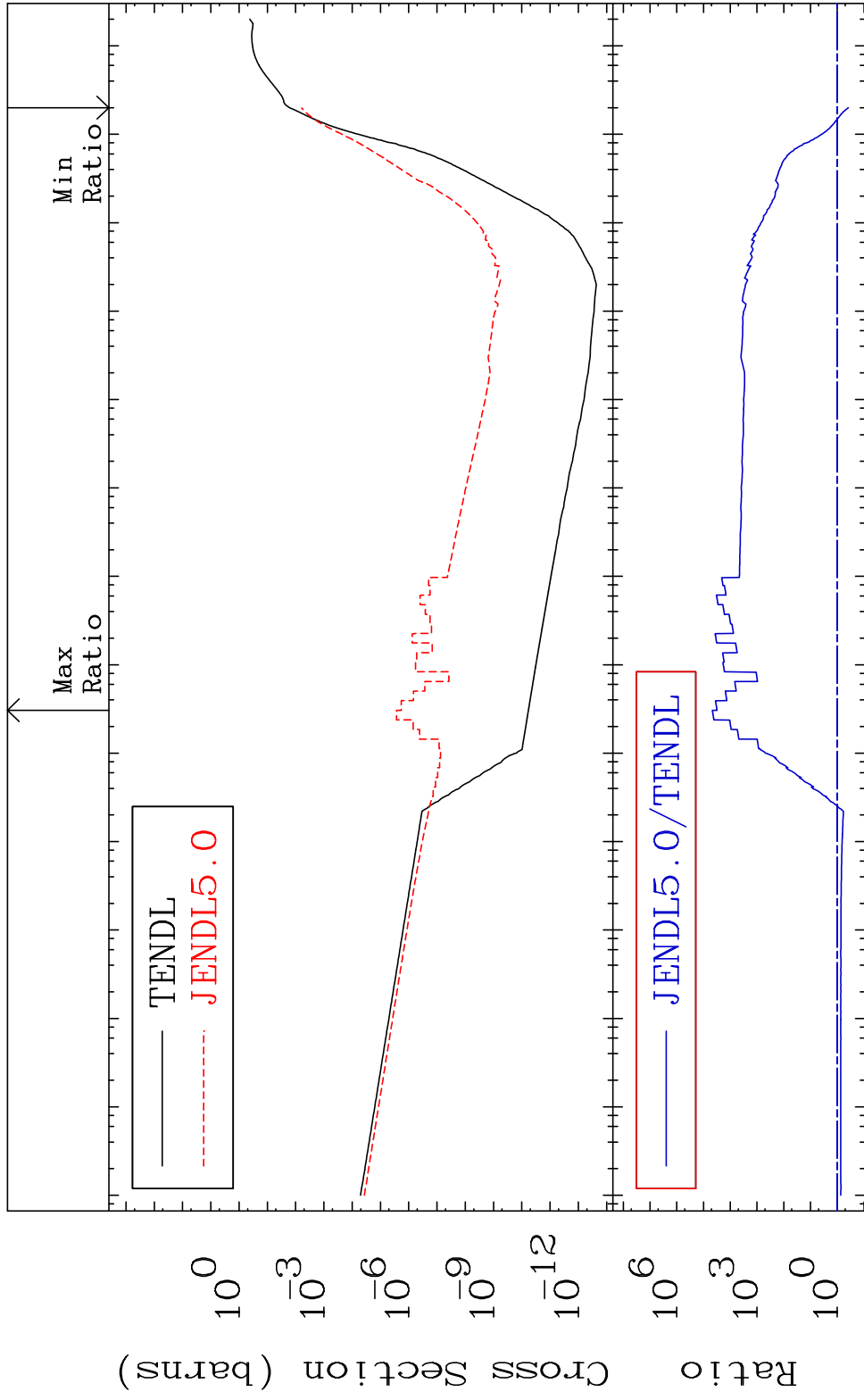


MAT 6331

He-4 Production

63-Eu-153

Cross Section -61.49 To 9999. %

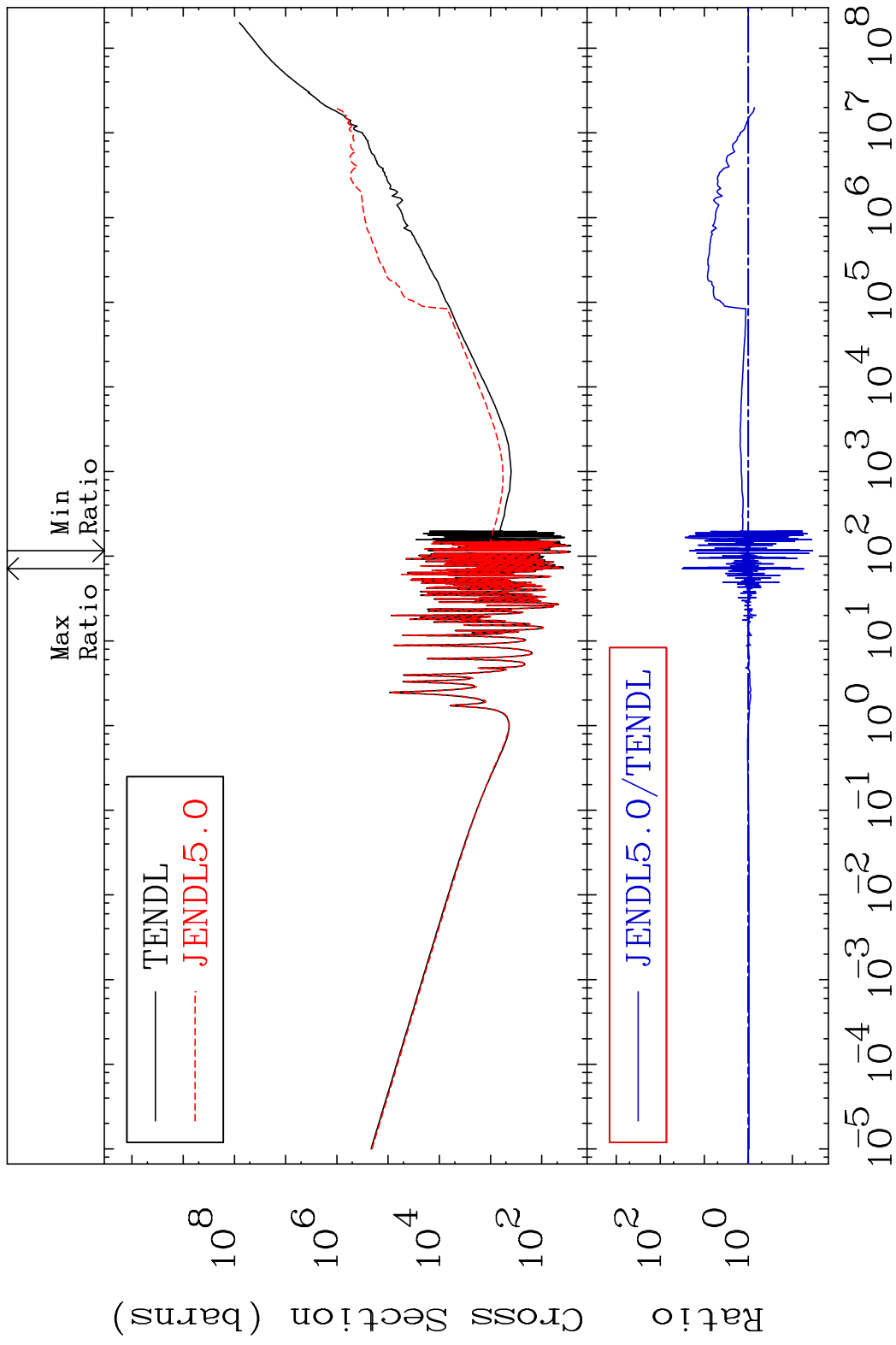


53

Incident Energy (eV)

63-Eu-153

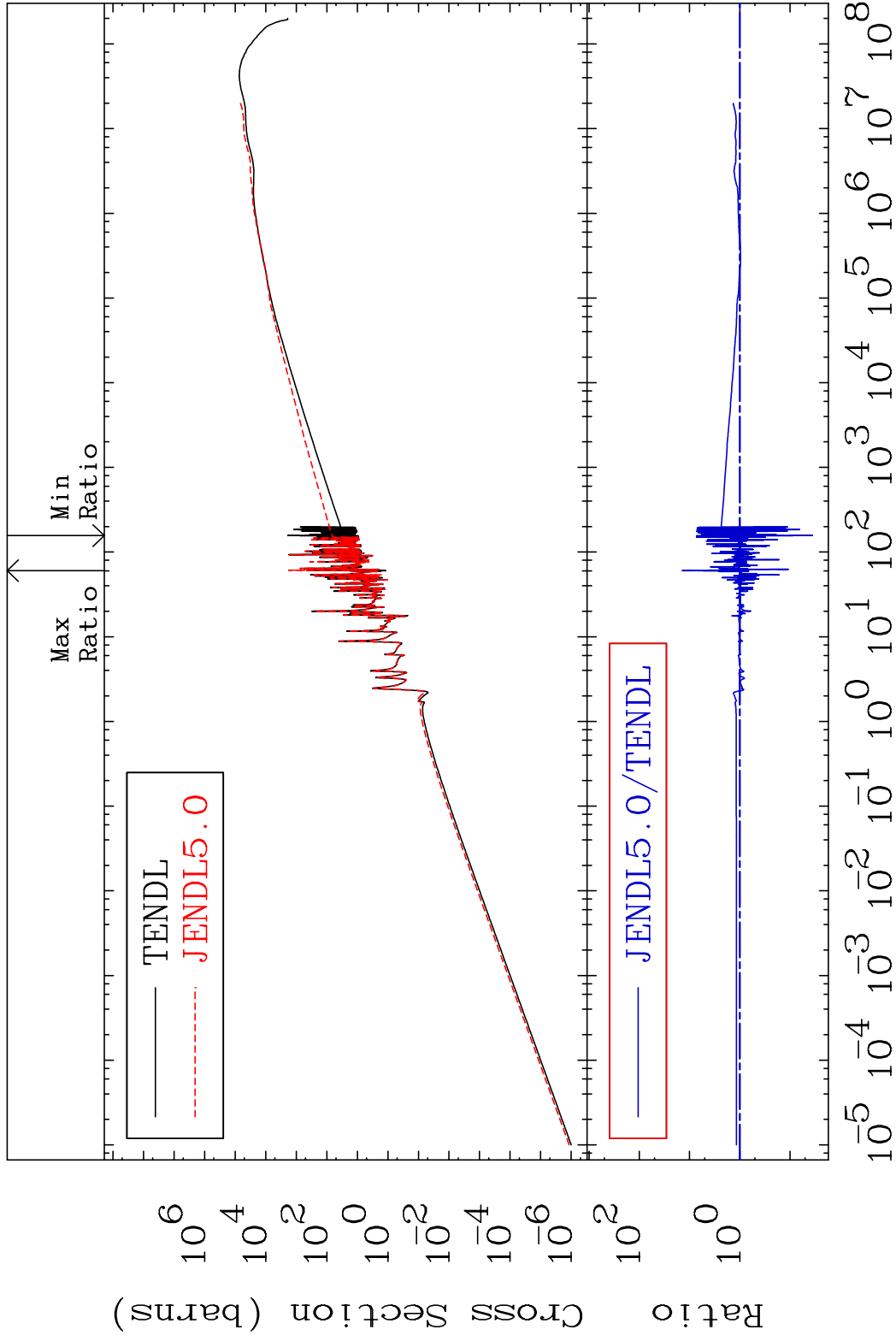
MAT 6331 Kerma total (eV-barns) 63-Eu-153  
 Cross Section -96.55 To 3054. %



MAT 6331

Kerma elastic  
Cross Section

63-Eu-153  
-96.46 To 1293. %



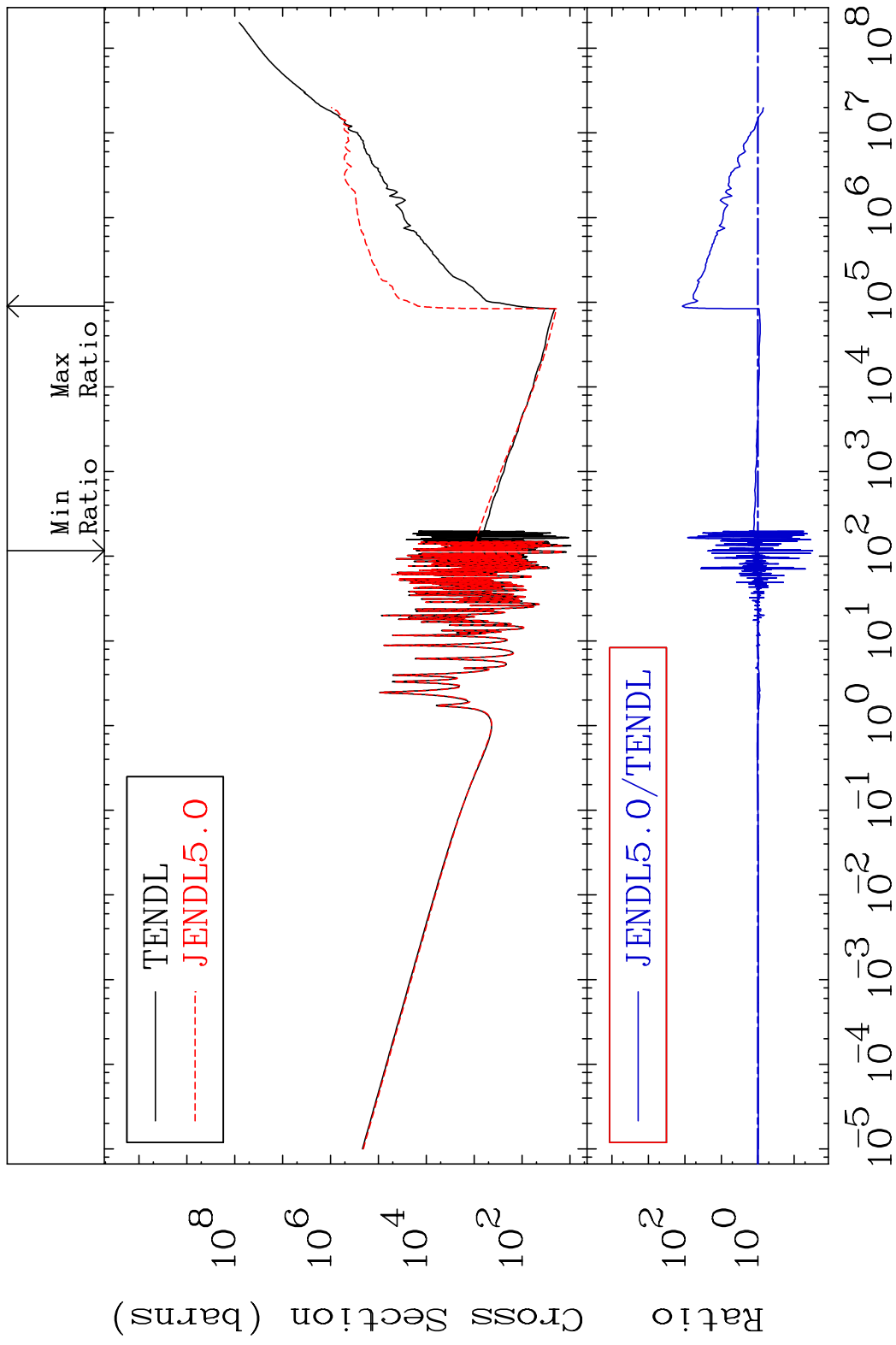
55

Incident Energy (eV)

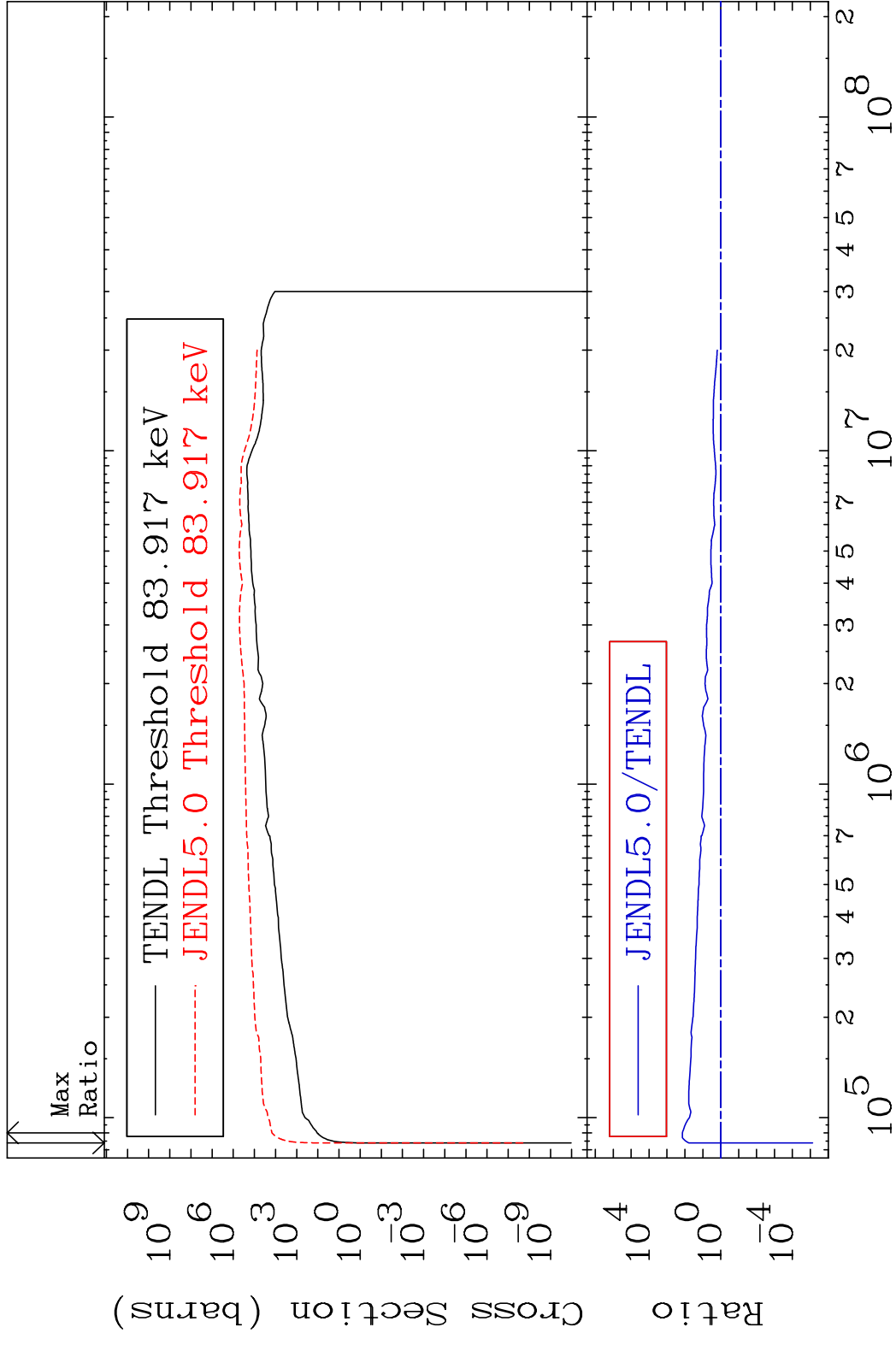
63-Eu-153



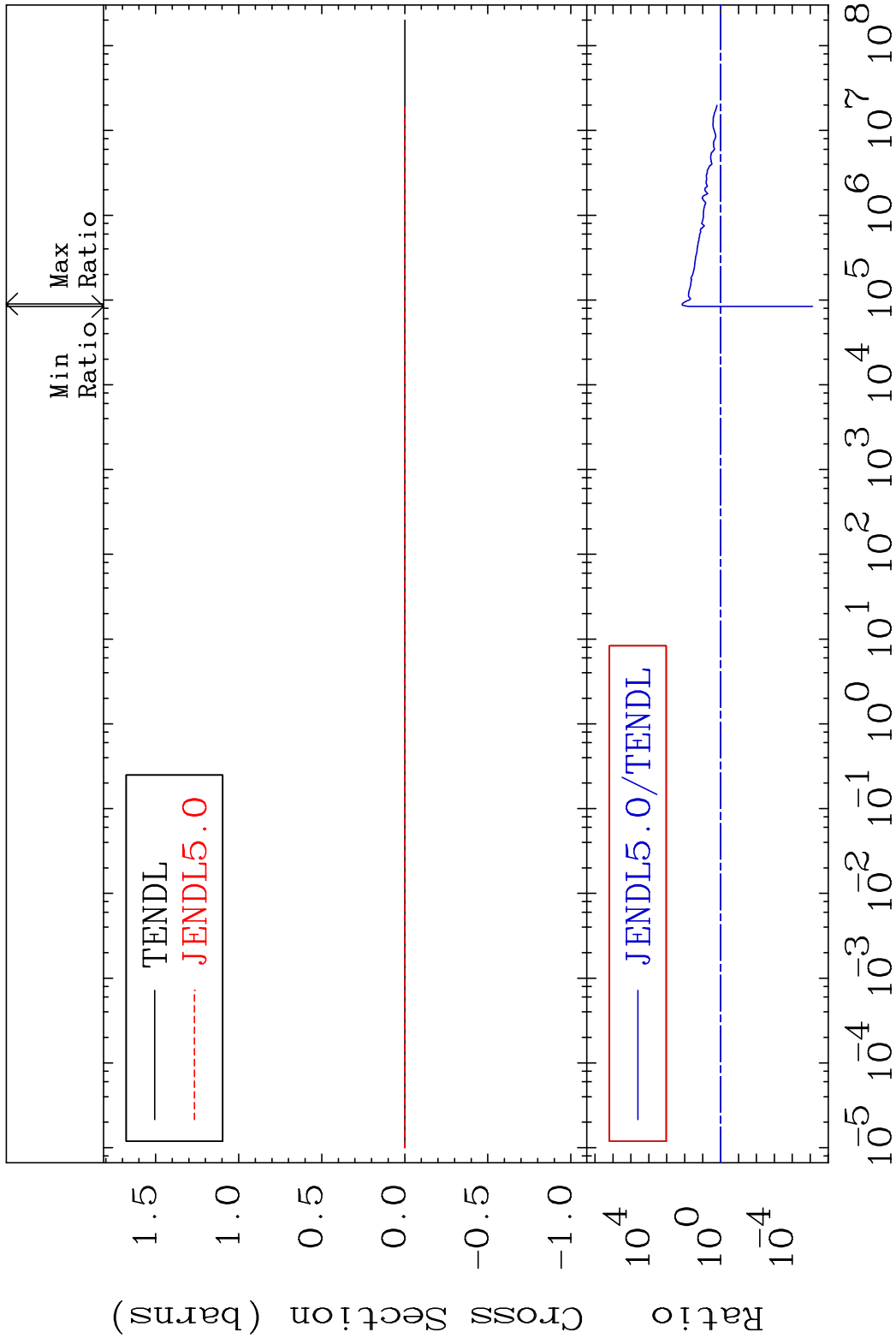
MAT 6331 Kerma non-elastic (all but mt2) 63-Eu-153  
 Cross Section -96.86 To 9999. %



MAT 6331 Kerma inelastic (mt51-91) 63-Eu-153  
 Cross Section -100.0 To 9999. %

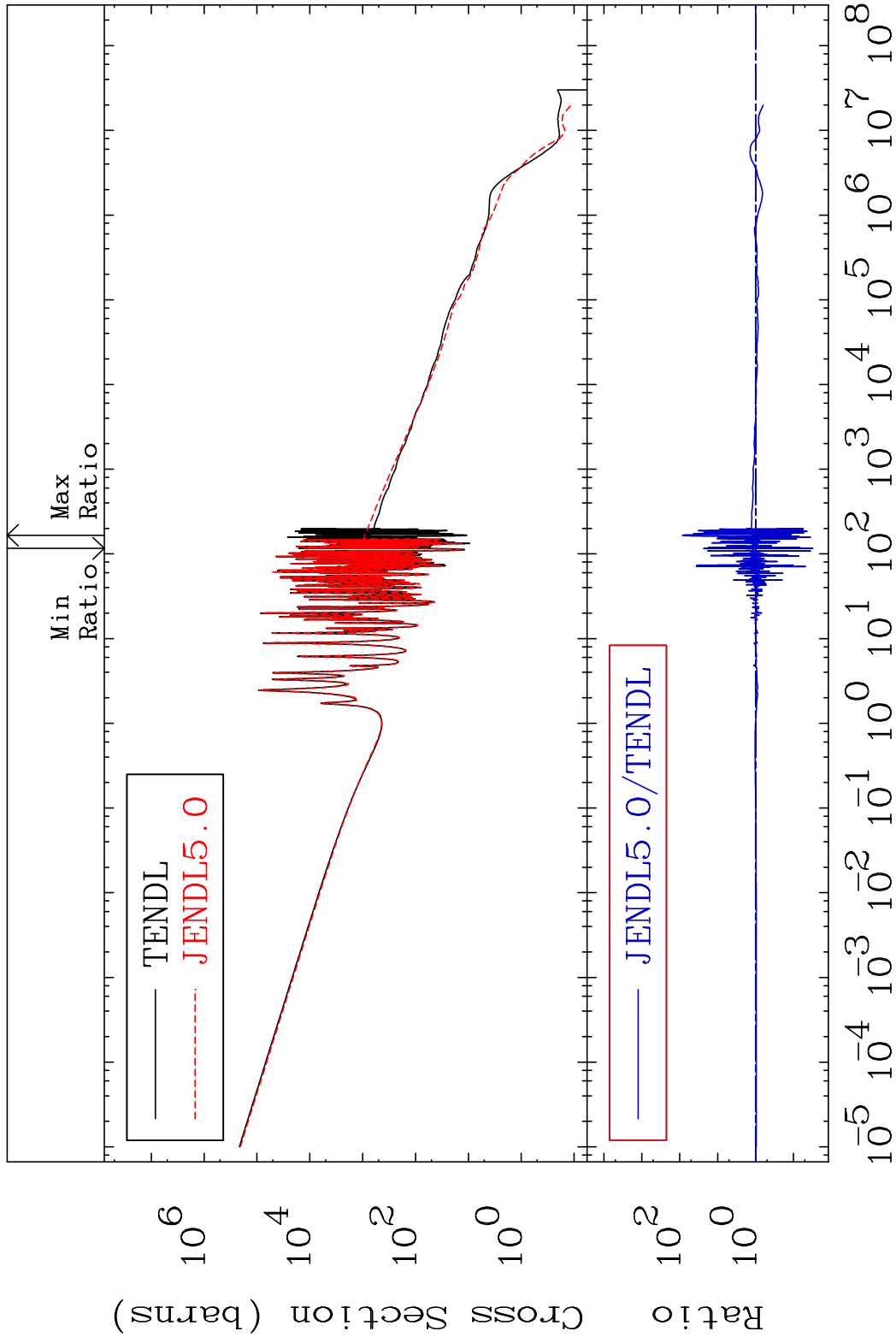


MAT 6331 Kerma fission (mt18 or mt19-20-21-38) 63-Eu-153  
 Cross Section -100.0 To 9999. %



MAT 6331

Kerma capture (mt102) 63-Eu-153  
Cross Section -96.87 To 8436. %



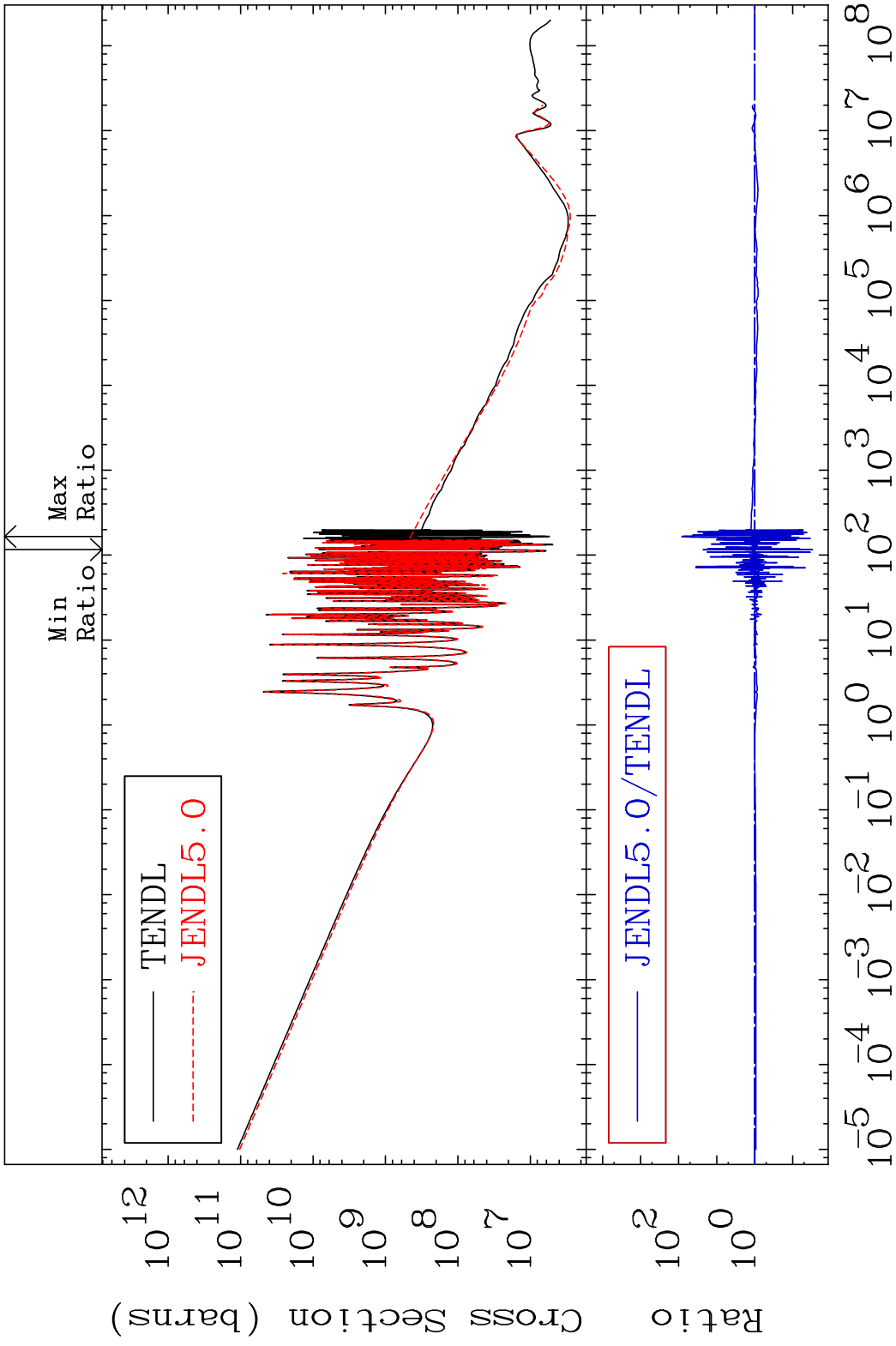
59

Incident Energy (eV)

63-Eu-153

MAT 6331

Total photon (eV-barns) 63-Eu-153  
Cross Section -96.95 To 8201. %

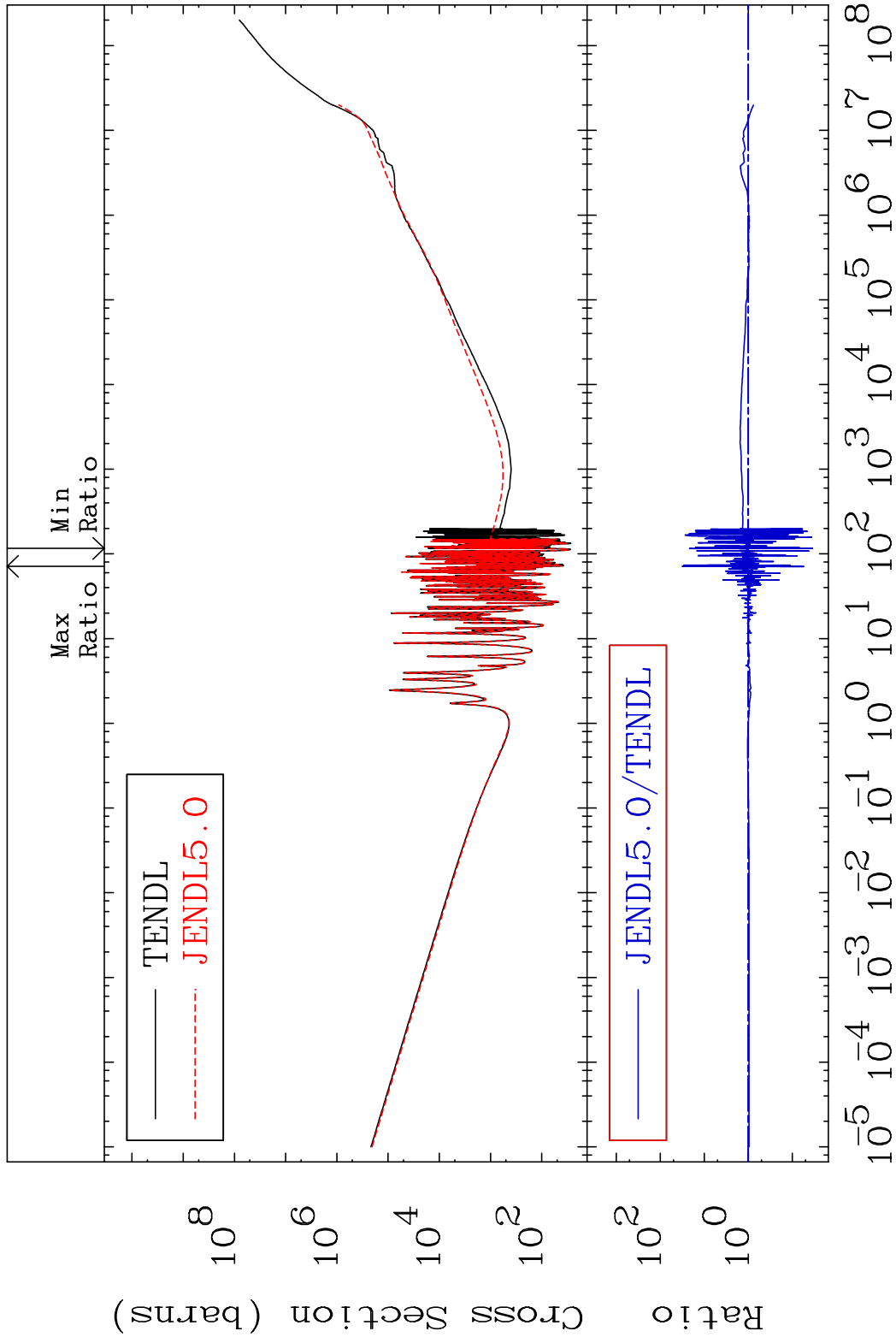


60

Incident Energy (eV)

63-Eu-153

MAT 6331 Total kinematic kerma (high limit) 63-Eu-153  
 Cross Section -96.55 To 3054. %

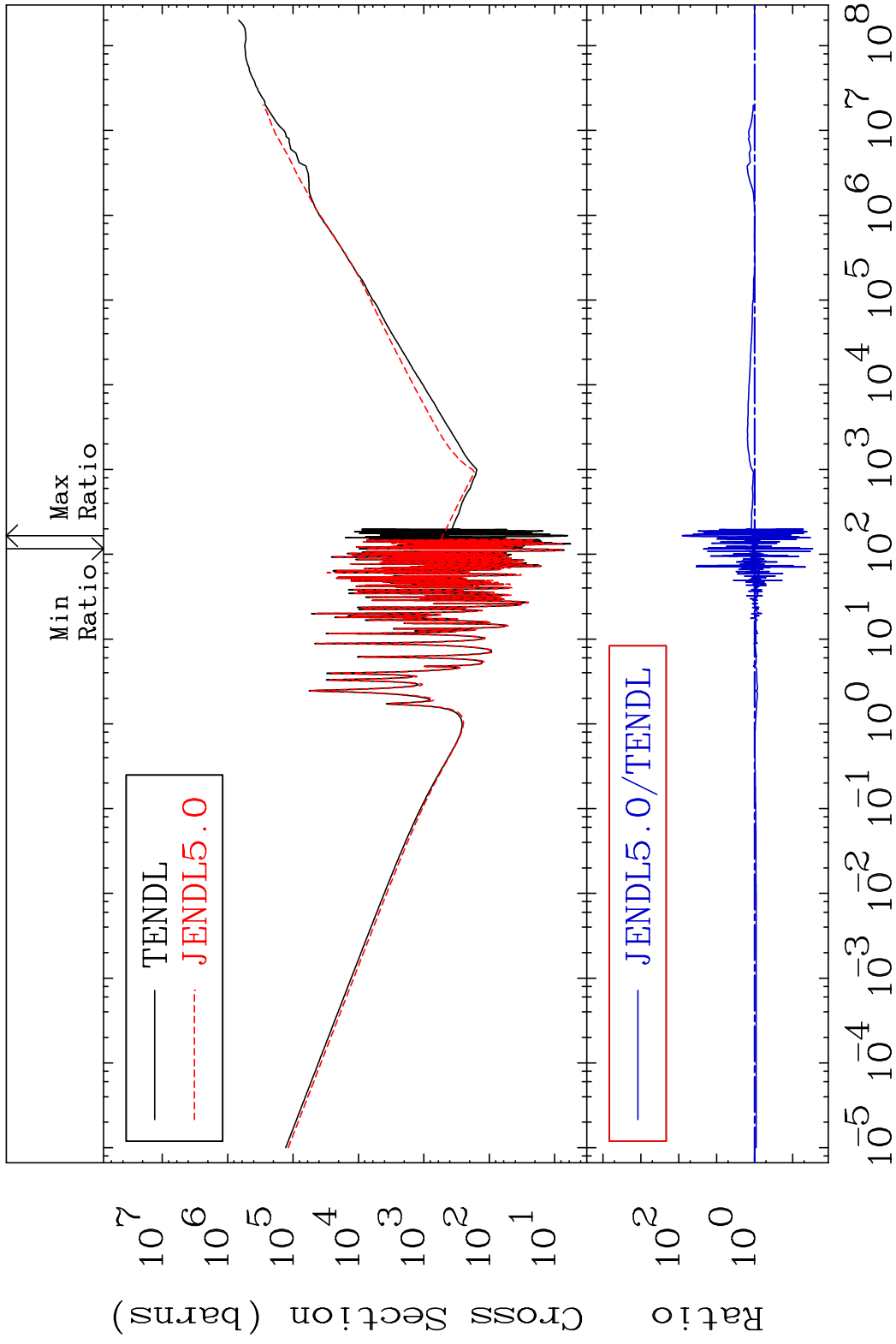


MAT 6331

Dpa total (eV-barns)

63-Eu-153

Cross Section -97.01 To 8036. %



62

Incident Energy (eV)

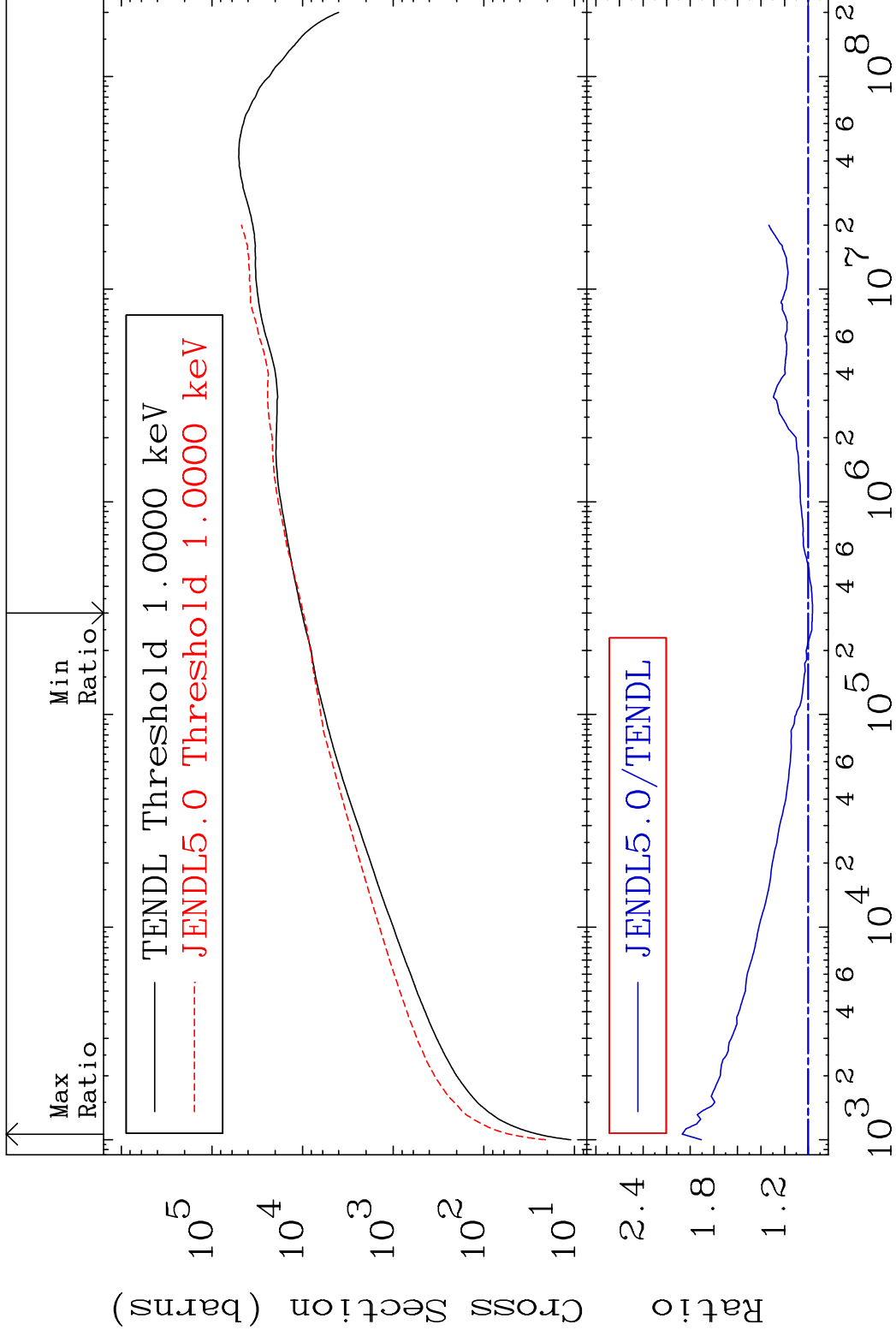
63-Eu-153

MAT 6331

Dpa elastic (mt2)

63-Eu-153

Cross Section -3.602 To 106.9 %



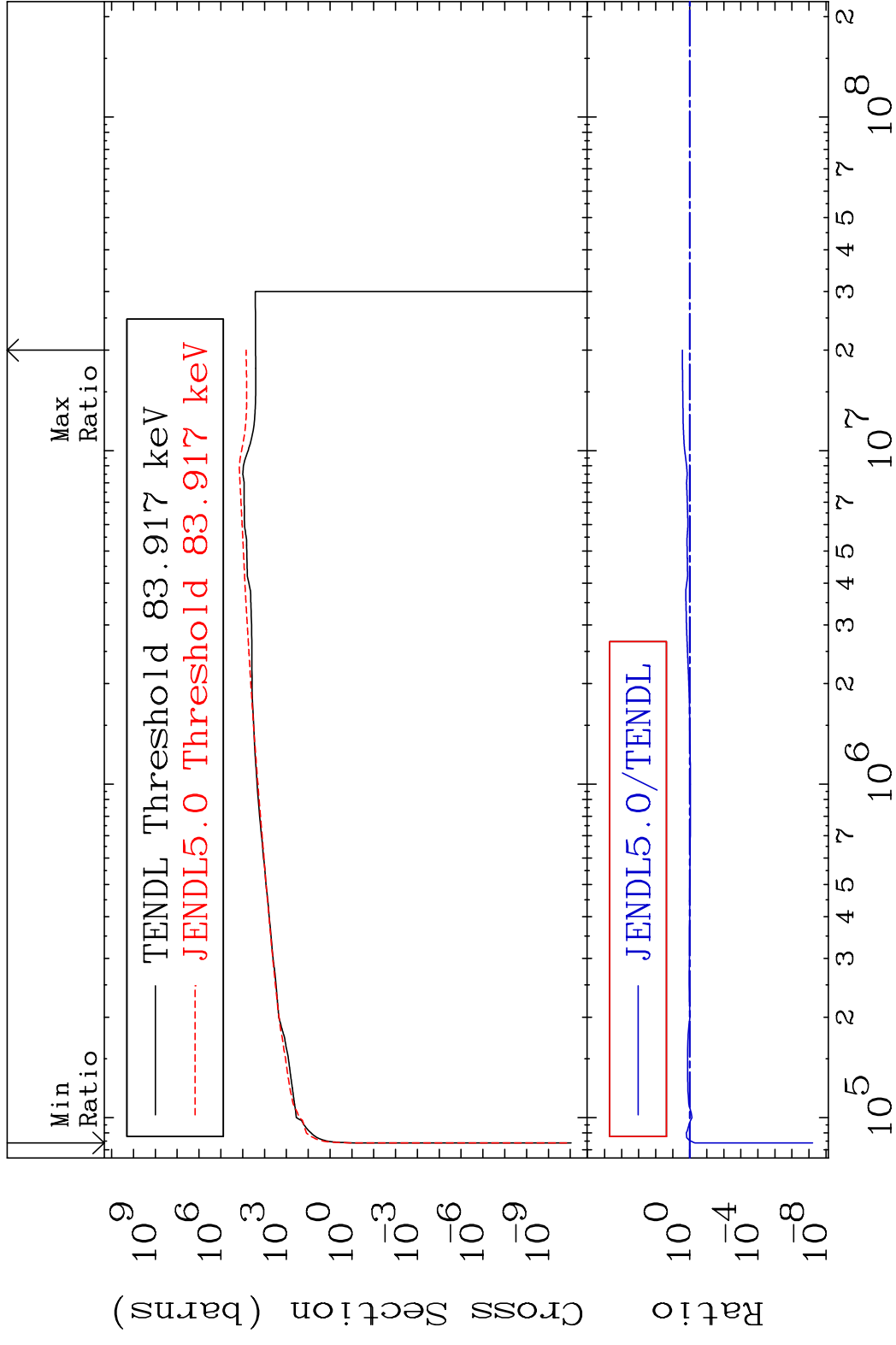
63

Incident Energy (eV)

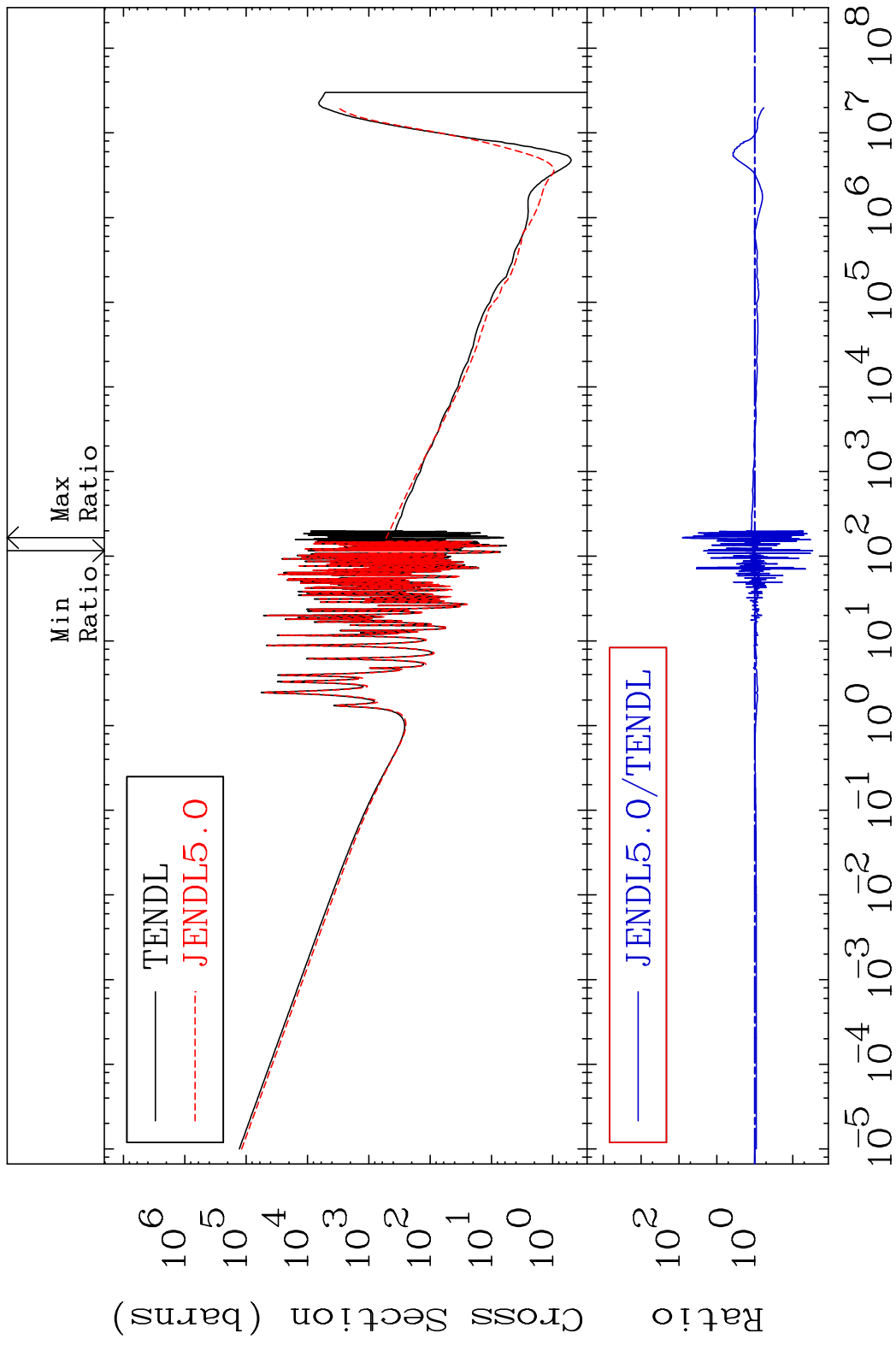
63-Eu-153



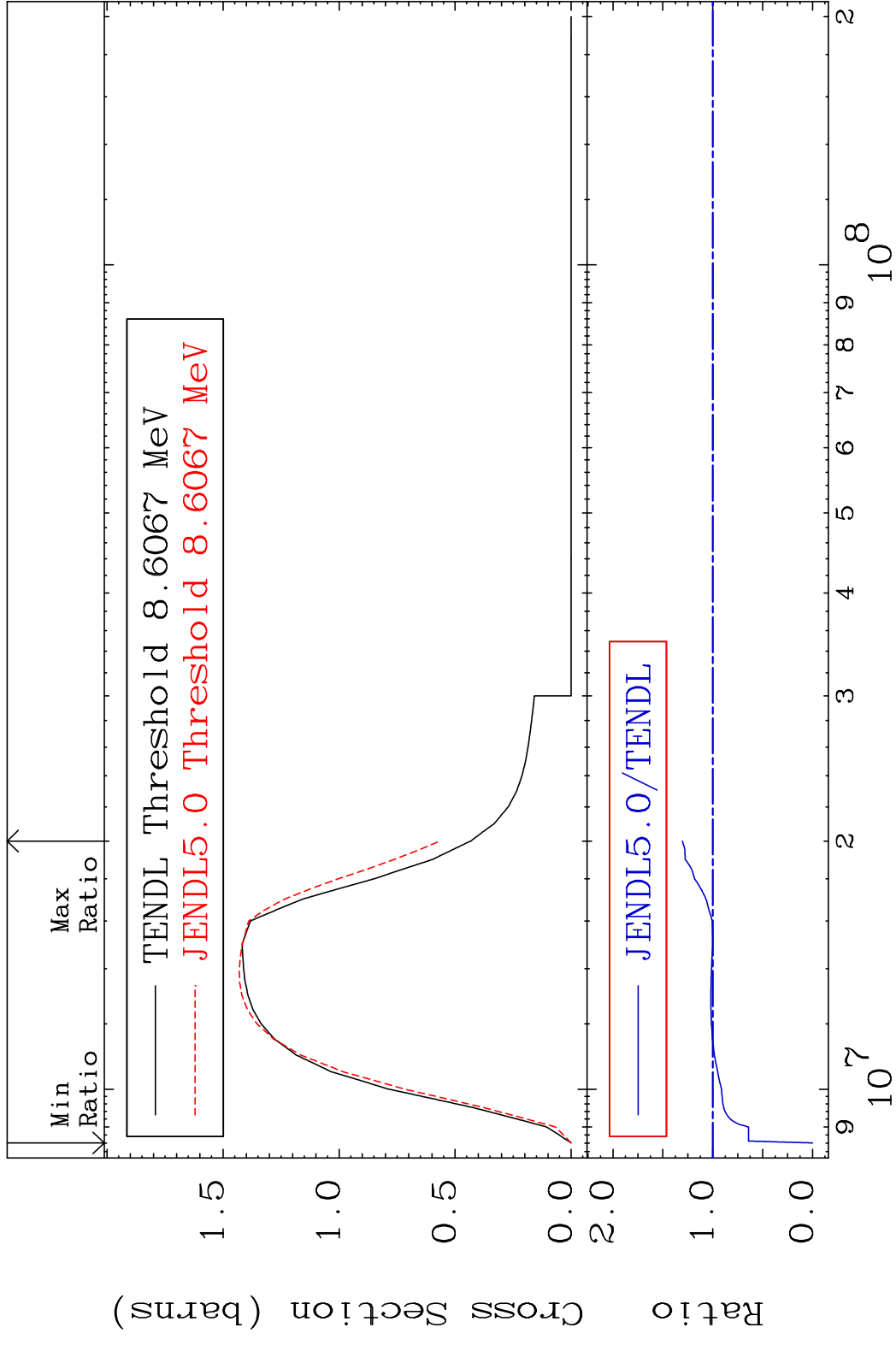
MAT 6331      Dpa inelastic (mt51-91)      63-Eu-153  
 Cross Section      -100.0 To 172.7 %



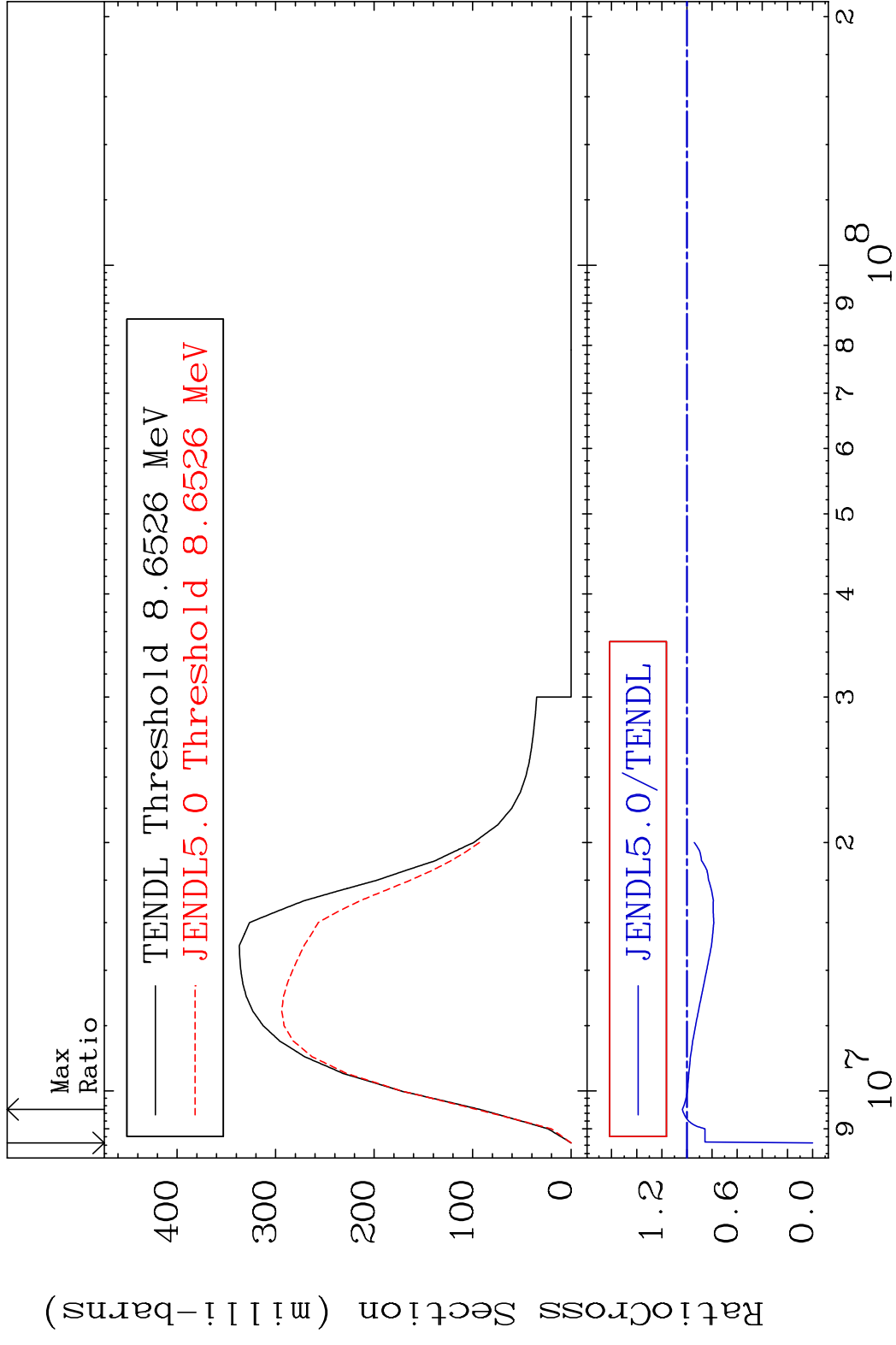
MAT 6331 Dpa disappearance (mt102 -120) 63-Eu-153  
 Cross Section -97.01 To 8036. %



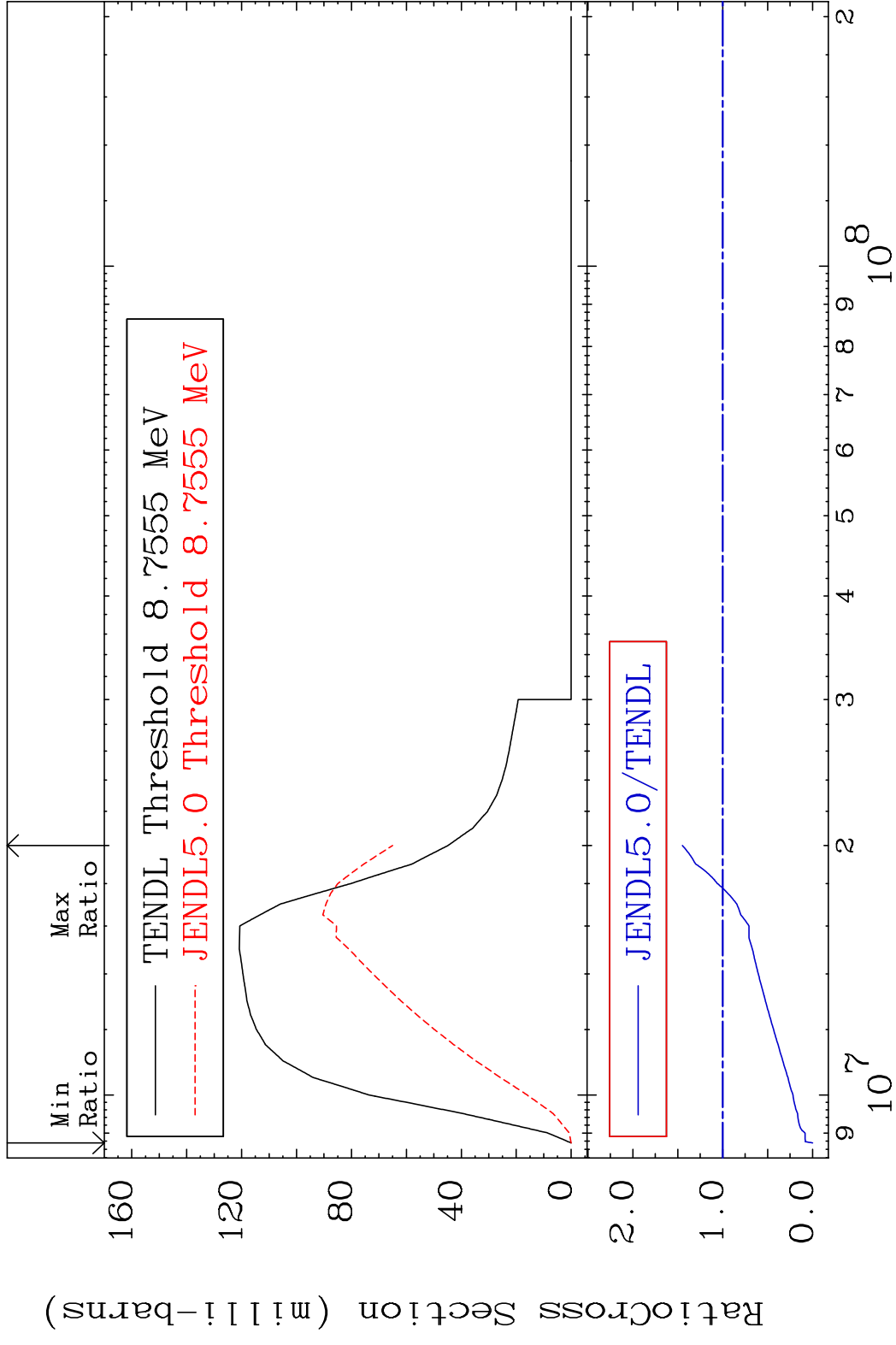
MAT 6331 (n,2n):63-Eu-152g 63-Eu-153  
 Radionuclide Production Cross Section Ratio 30.49 %

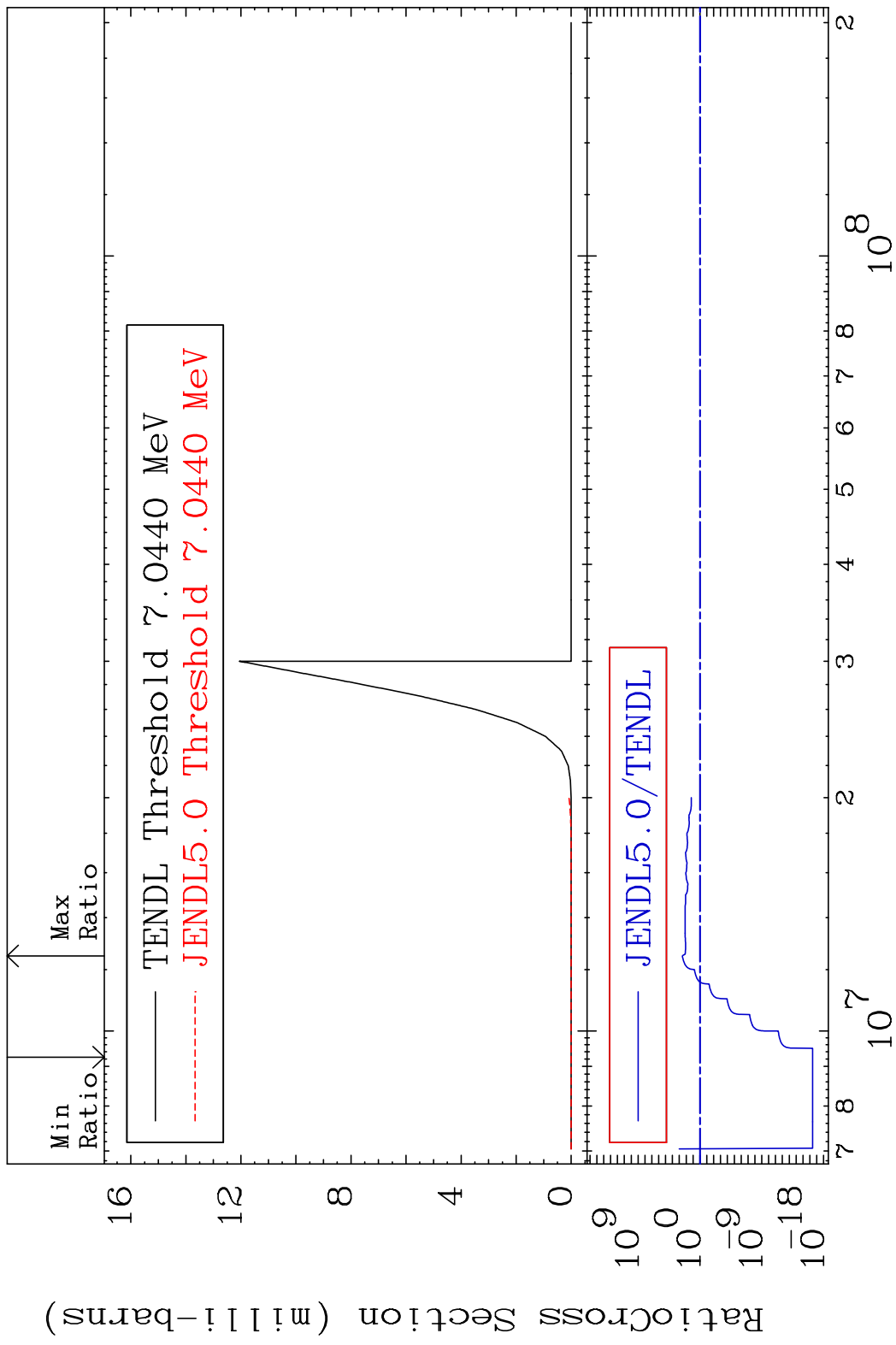


MAT 6331 (n,2n):63-Eu-152m1 63-Eu-153  
 Radionuclide Production Cross Section Ratio 3.647 %



MAT 6331 (n,2n):63-Eu-152m16 63-Eu-153  
 Radionuclide Production Cross Section Ratio 44.93 %





MAT 6331 (n,2n)  $\alpha$ :61-Pm-148m3 63-Eu-153  
 Radionuclide Production Cross Section to 9999. %

