

Program Complot  
(Version 2021-1)

by

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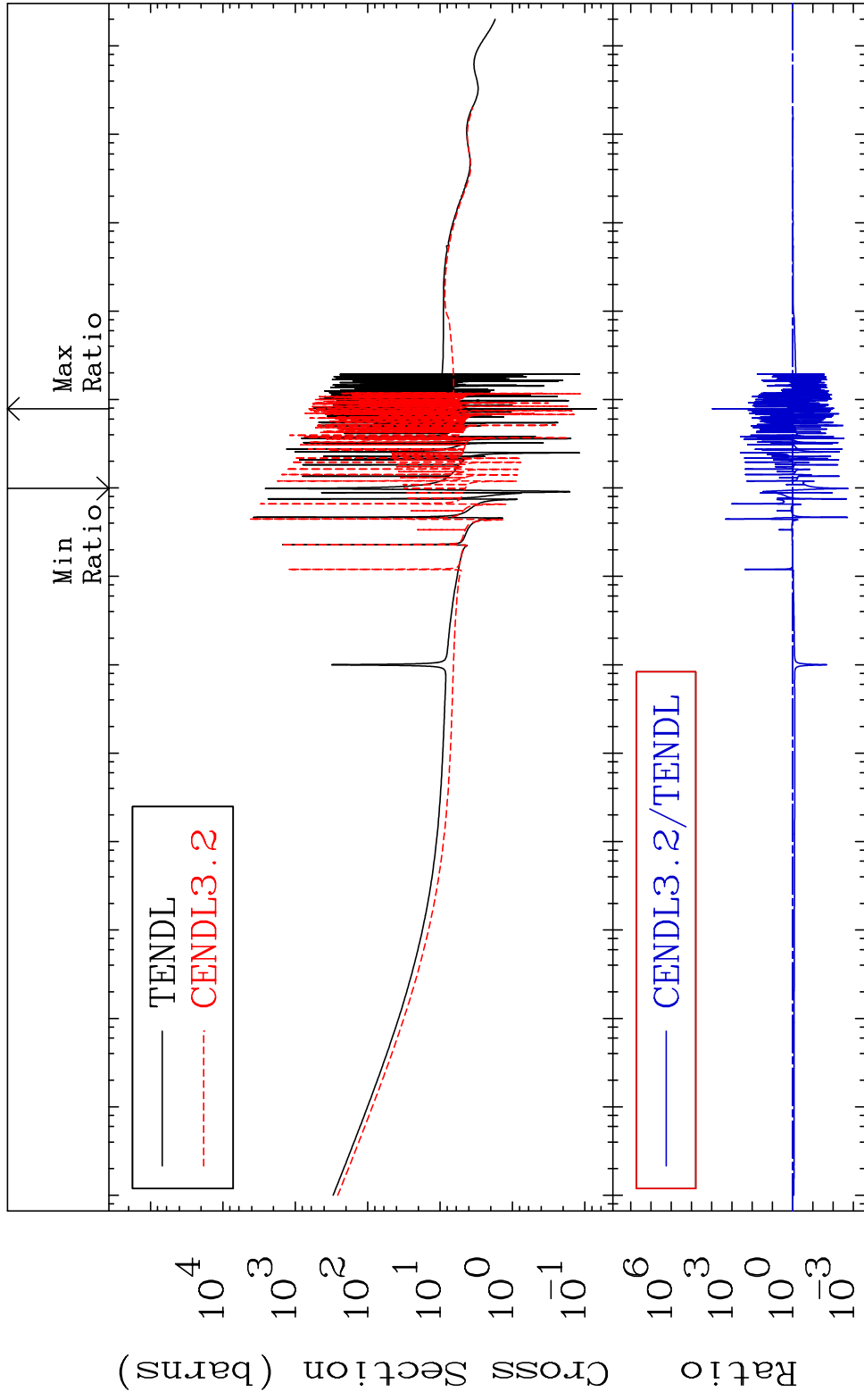
Press Mouse Button to Start

MAT 4437

Total

44-Ru-100

Cross Section -99.82 To 9999. %



1

Incident Energy (eV)

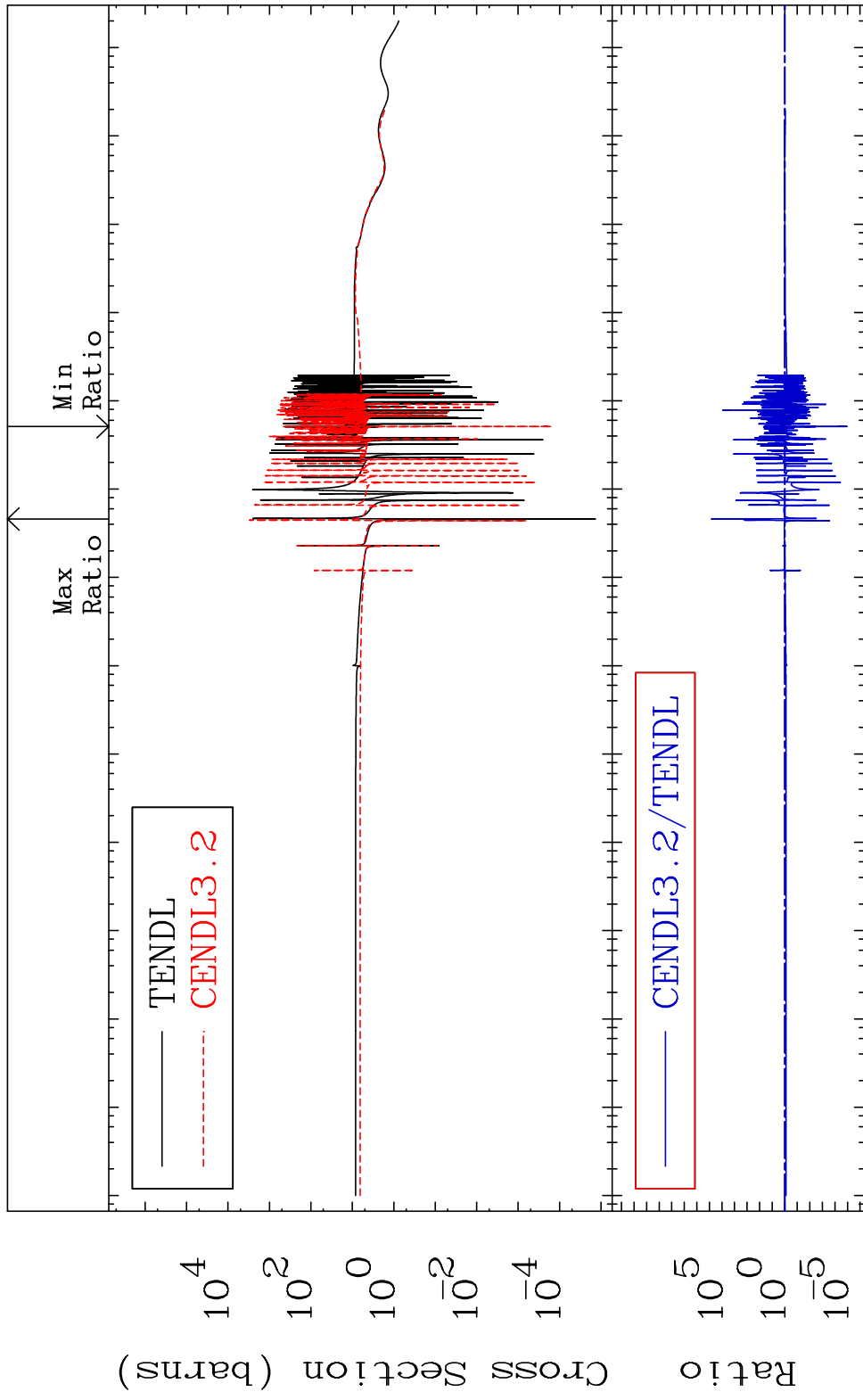
44-Ru-100

MAT 4437

Elastic

44-Ru-100

Cross Section -100.0 To 9999. %

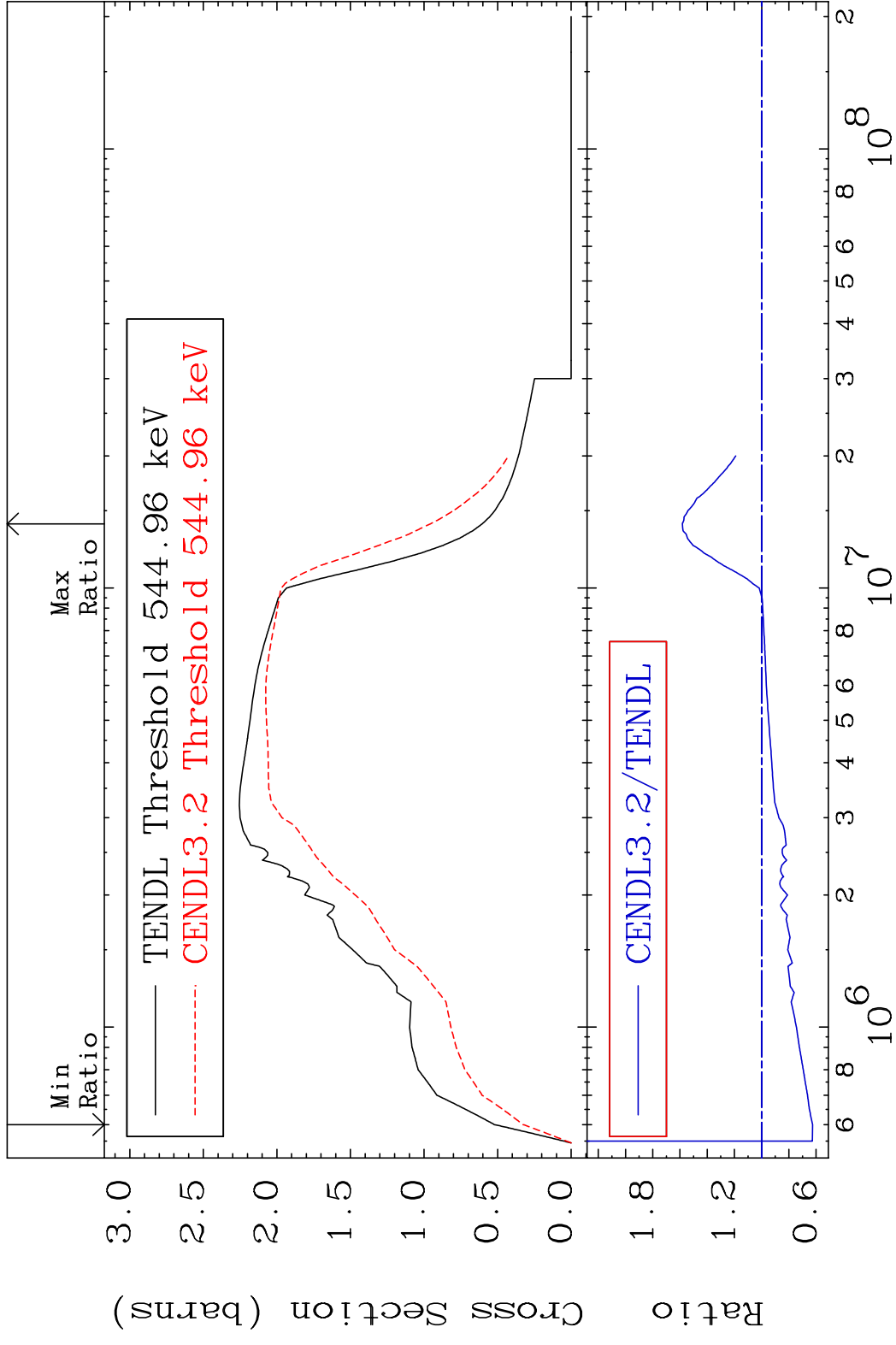


2

Incident Energy (eV)

44-Ru-100

MAT 4437 Inelastic 44-Ru-100  
 Cross Section -37.41 To 58.26 %

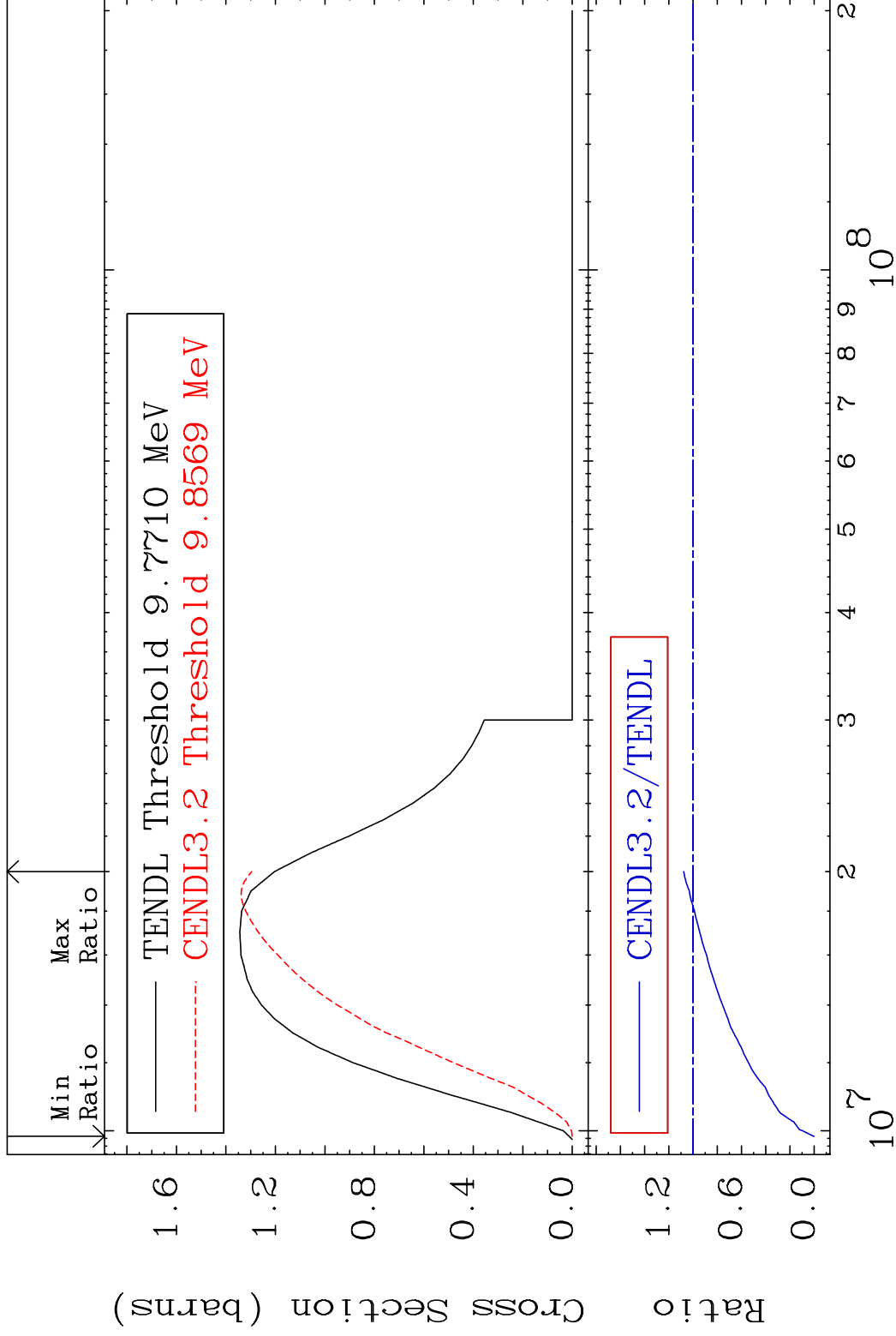


MAT 4437

(n,2n)

44-Ru-100

Cross Section -100.0 To 7.698 %

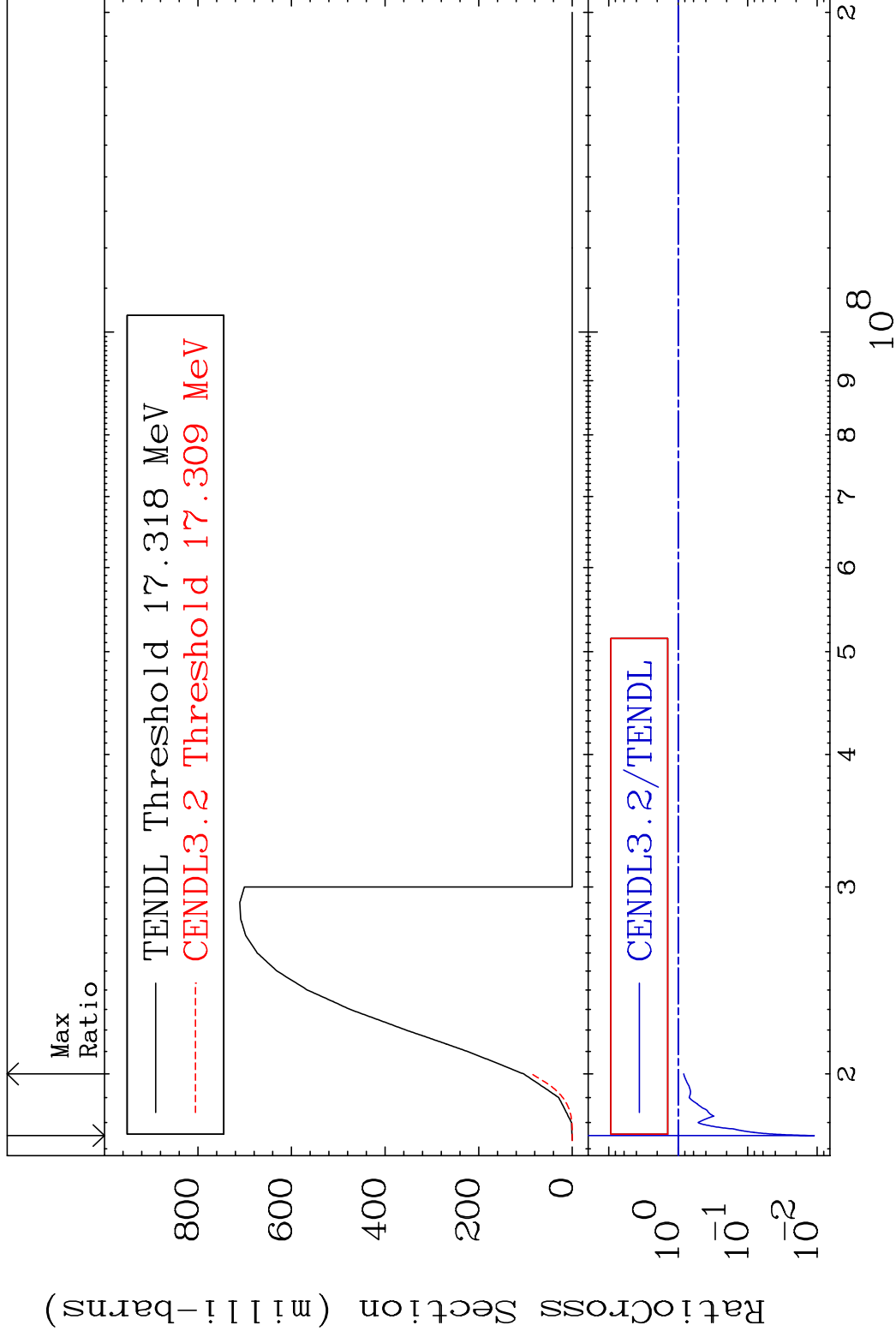


MAT 4437

(n,3n)

44-Ru-100

Cross Section -98.90 To -16.60%



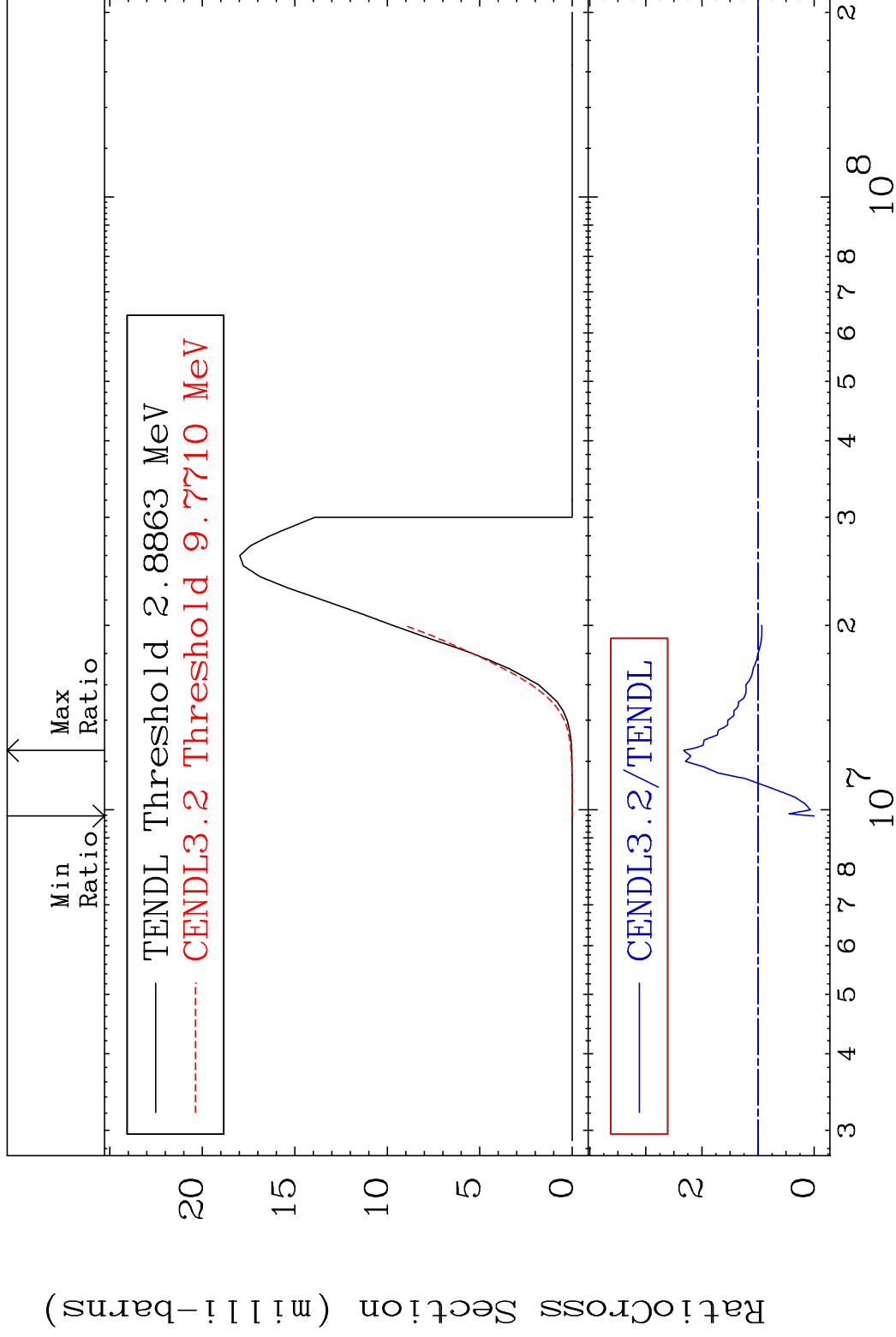
5

Incident Energy (eV)

44-Ru-100

MAT 4437

(n, n')  $\alpha$  44-Ru-100  
Cross Section -100.0 To 132.6 %



6

Incident Energy (eV)

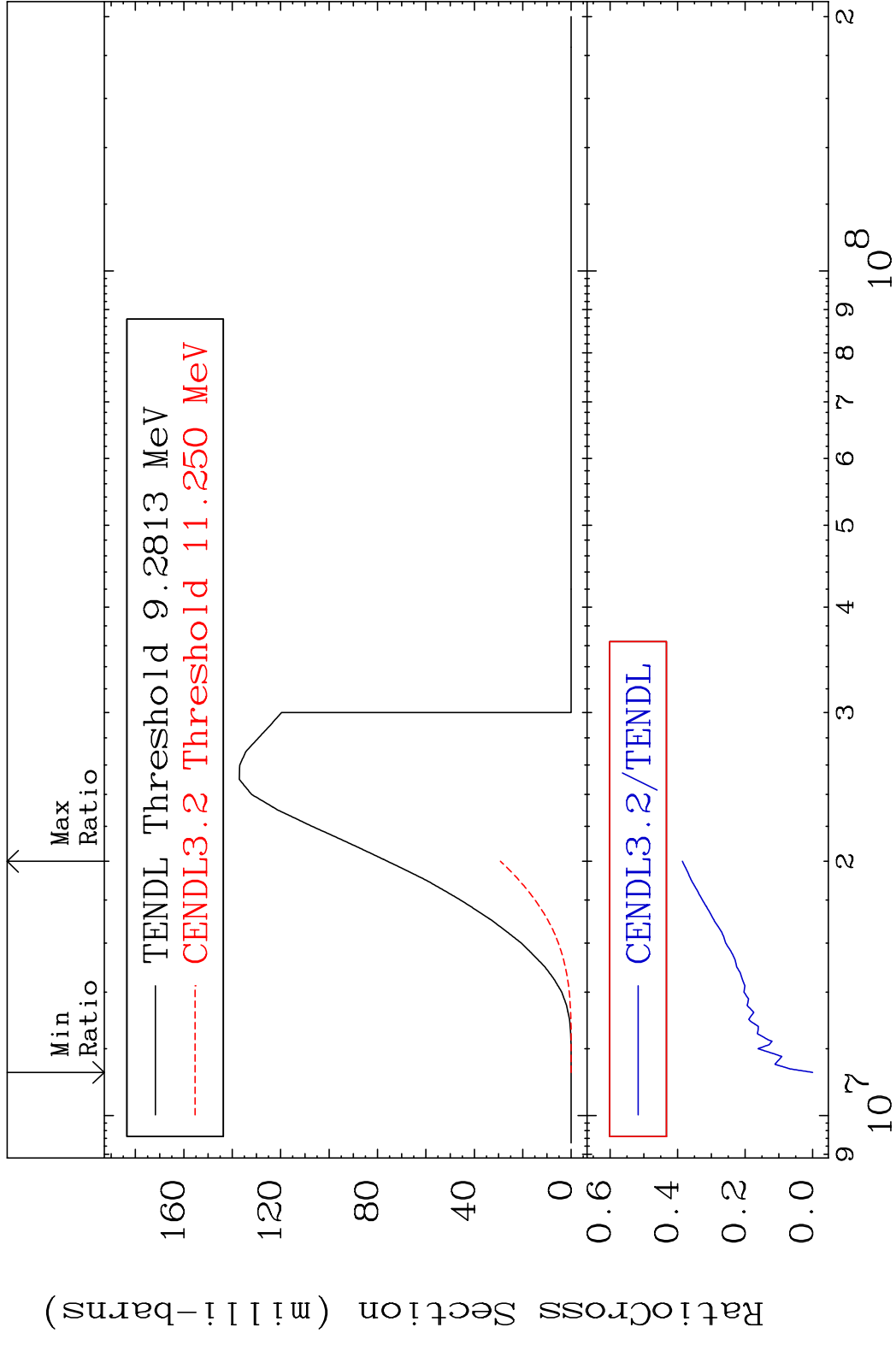
44-Ru-100

MAT 4437

(n, n') p

44-Ru-100

Cross Section -100.0 To -61.42%



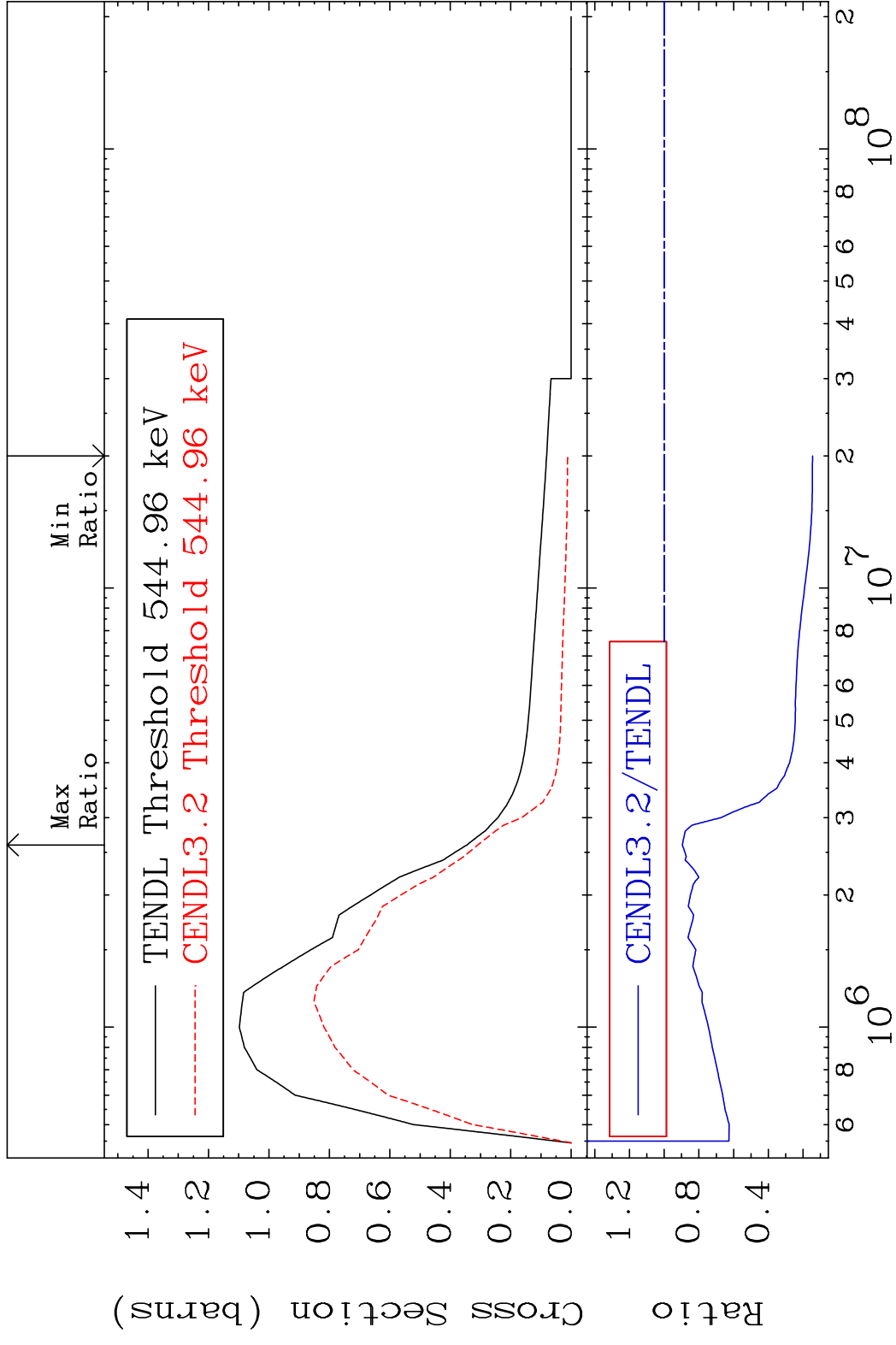
7

Incident Energy (eV)

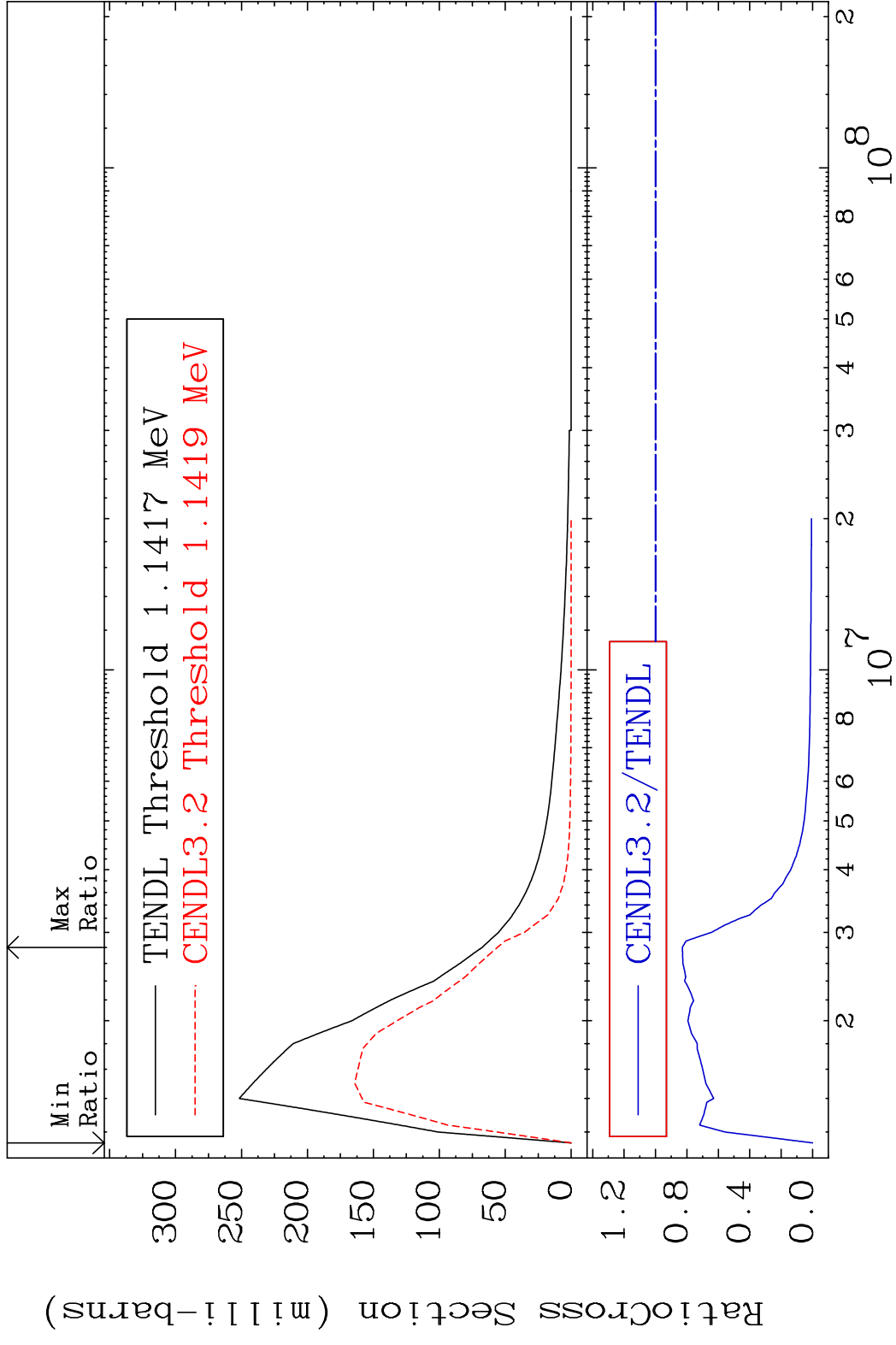
44-Ru-100



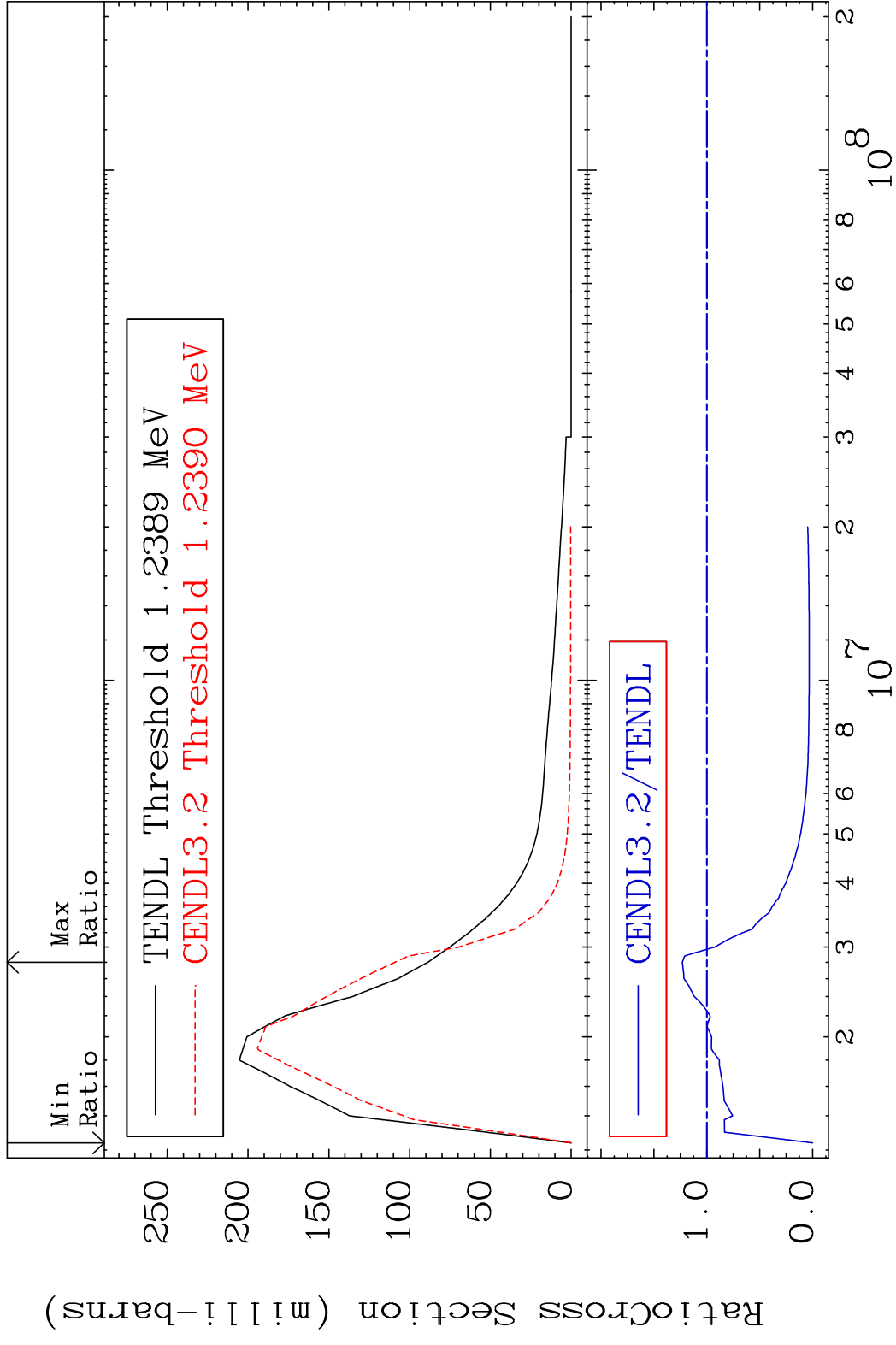
MAT 4437 MT= 51 (n, n') Level 44-Ru-100  
 Cross Section -85.47 To -10.46%



MAT 4437 MT= 52 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To -17.10%

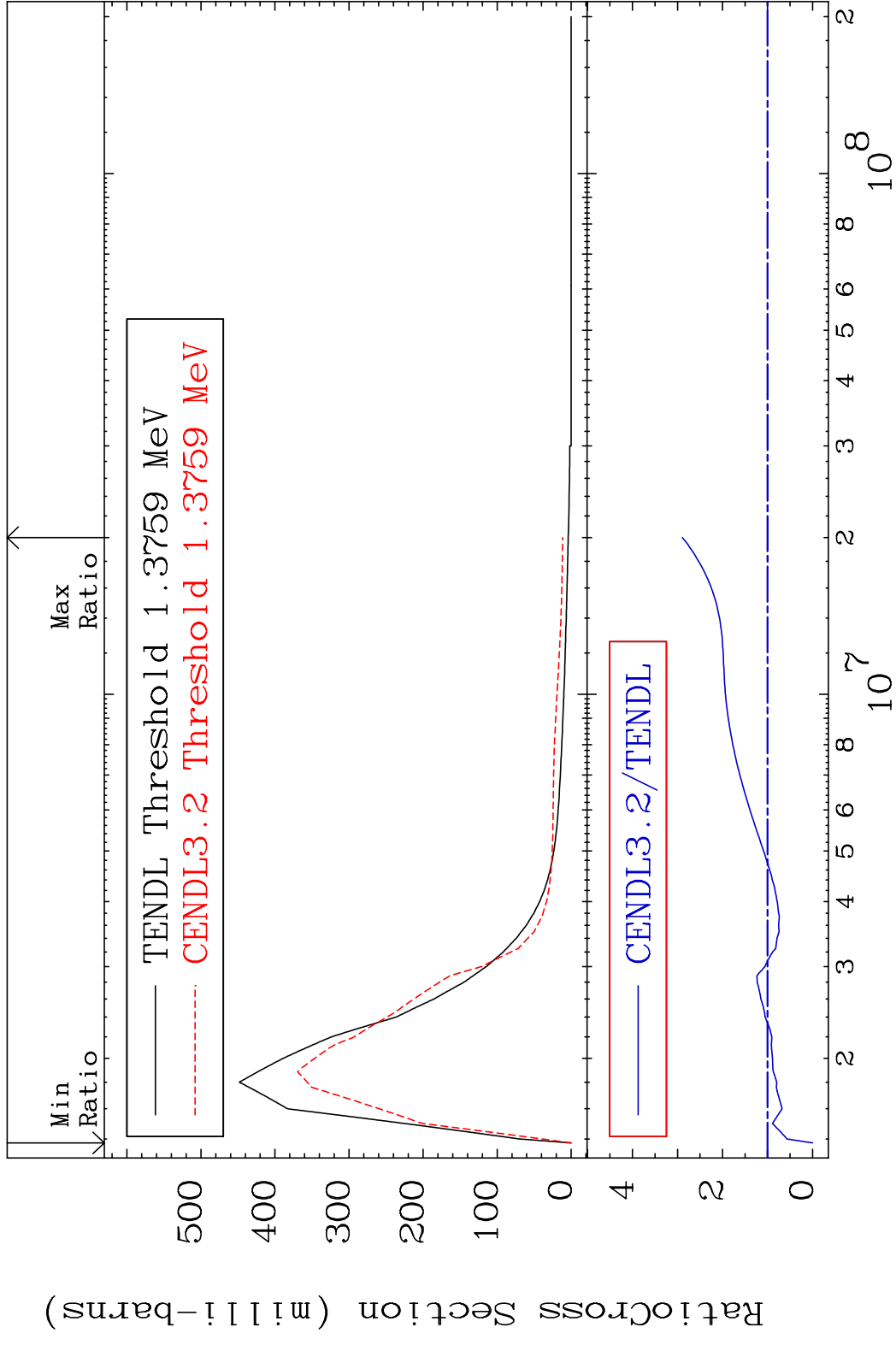


MAT 4437 MT= 53 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 23.10 %

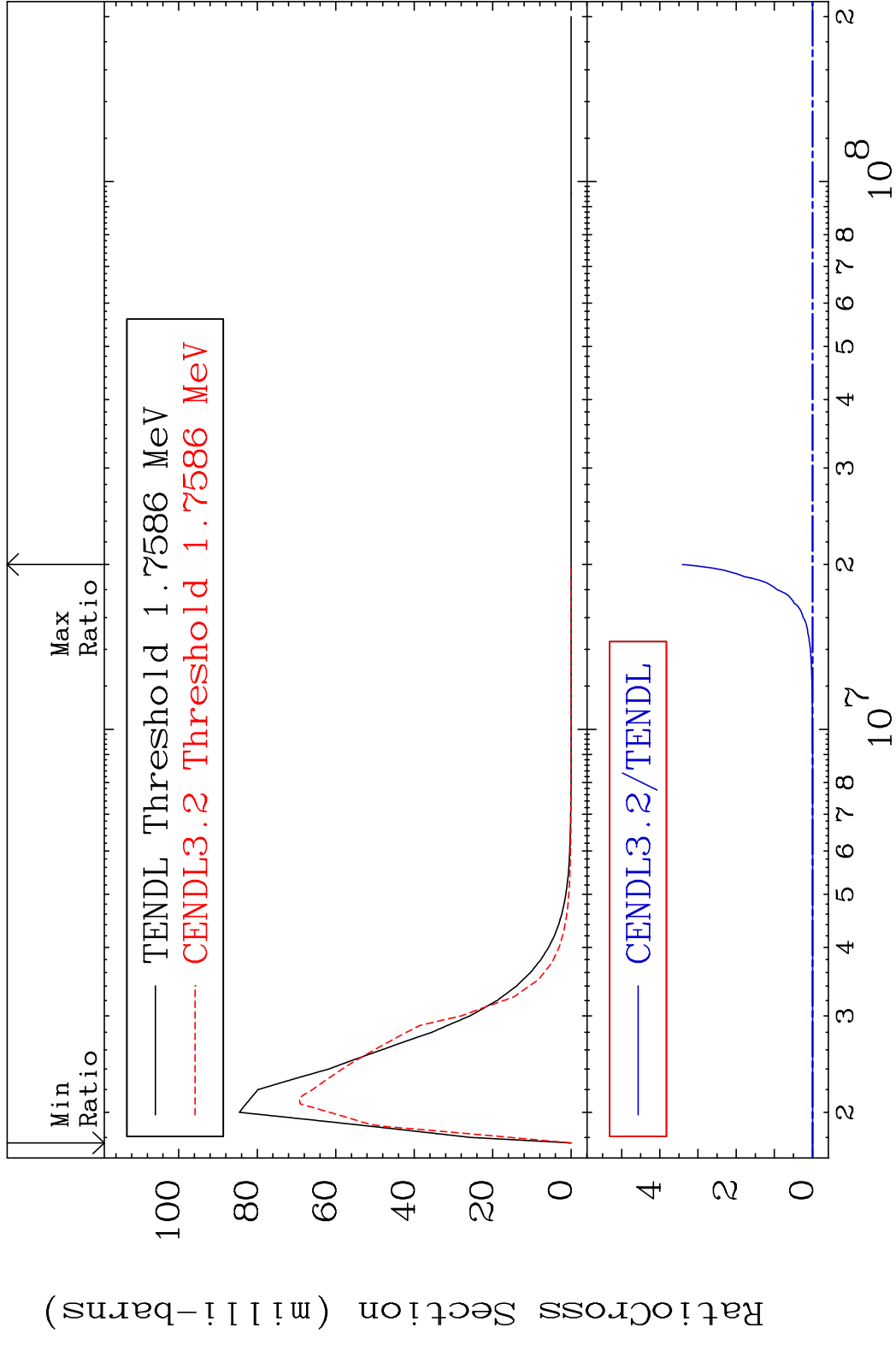


10 Incident Energy (eV) 44-Ru-100

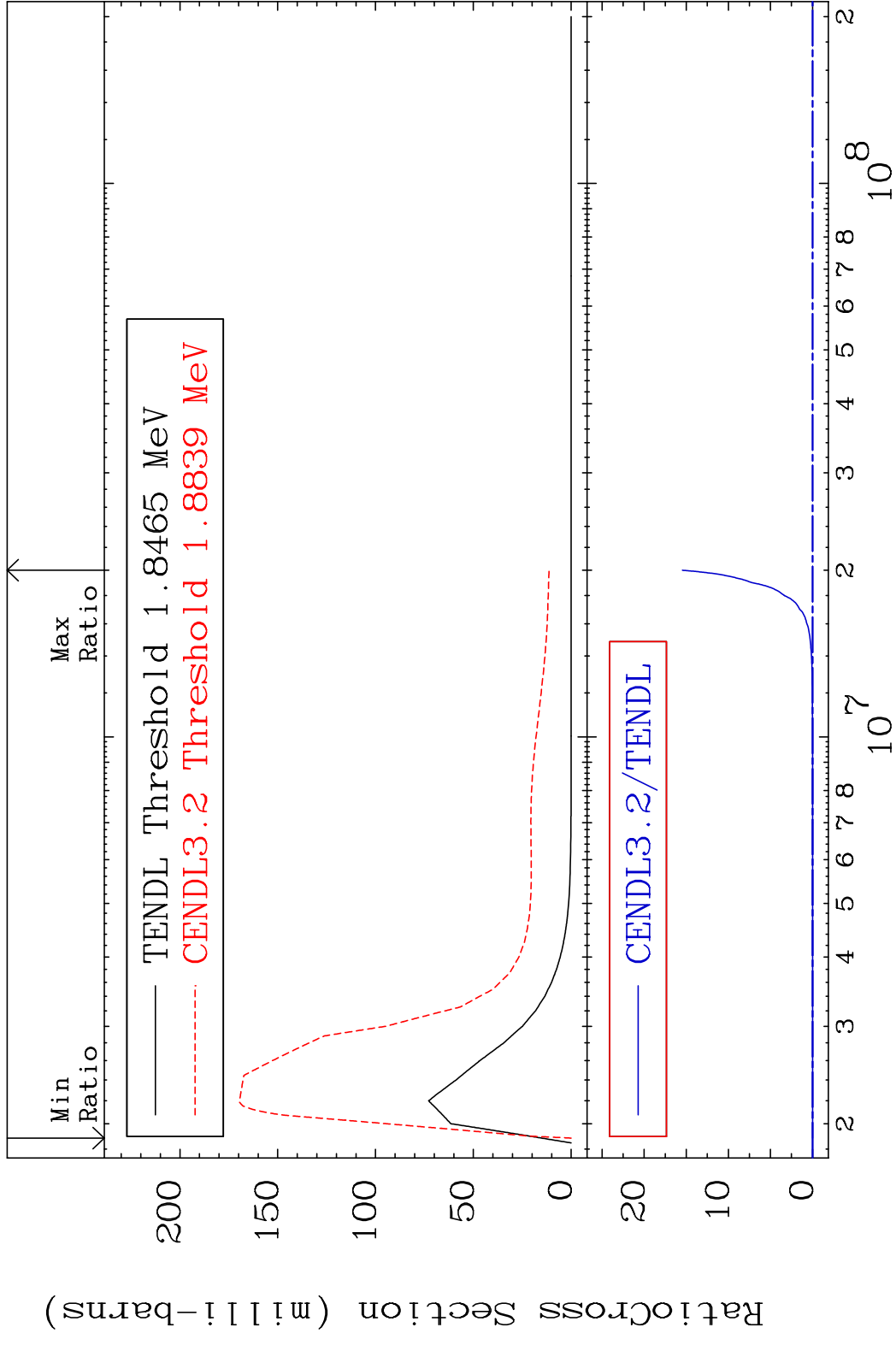
MAT 4437 MT= 54 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 189.2 %



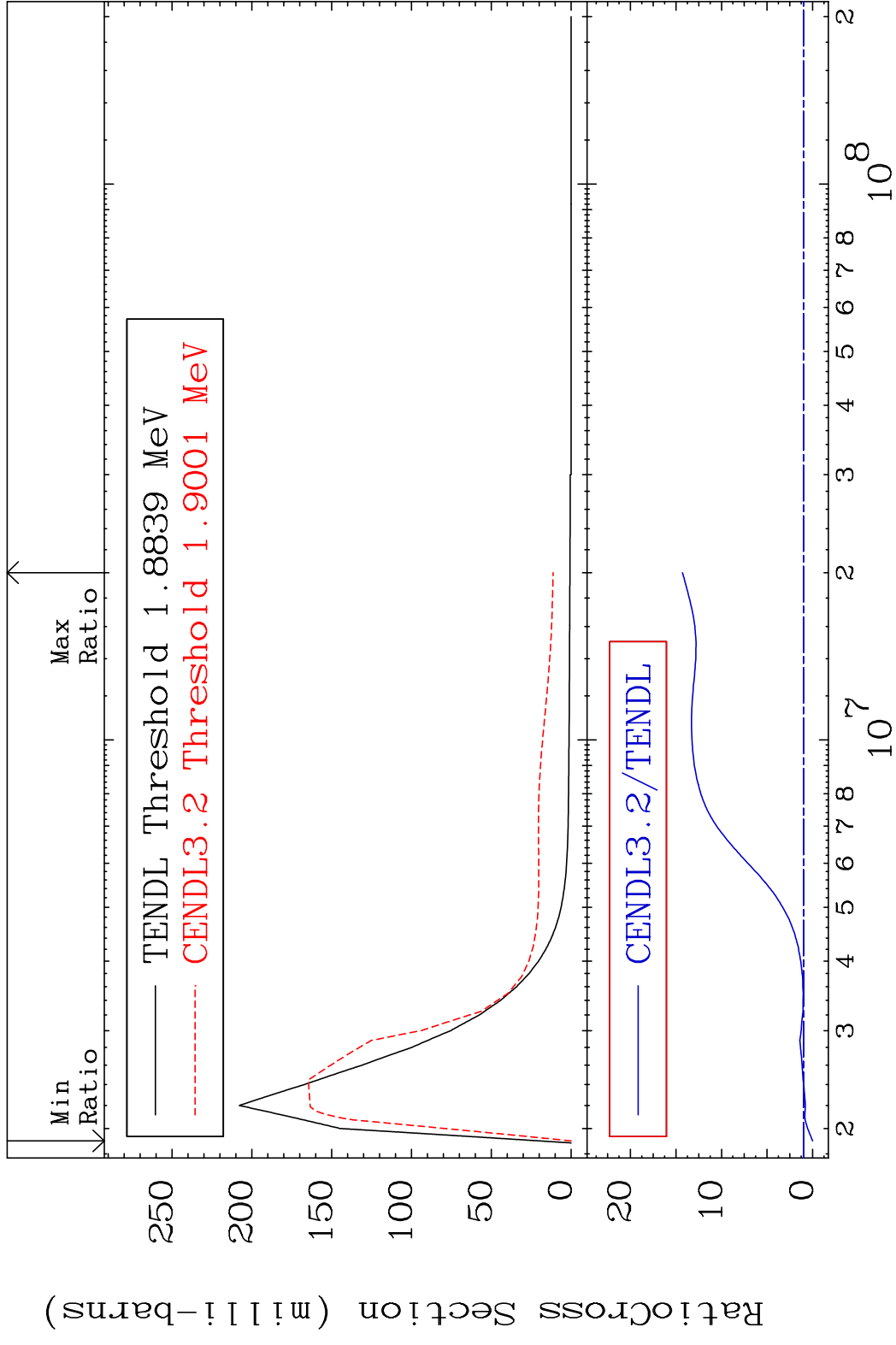
MAT 4437 MT= 55 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 9999. %



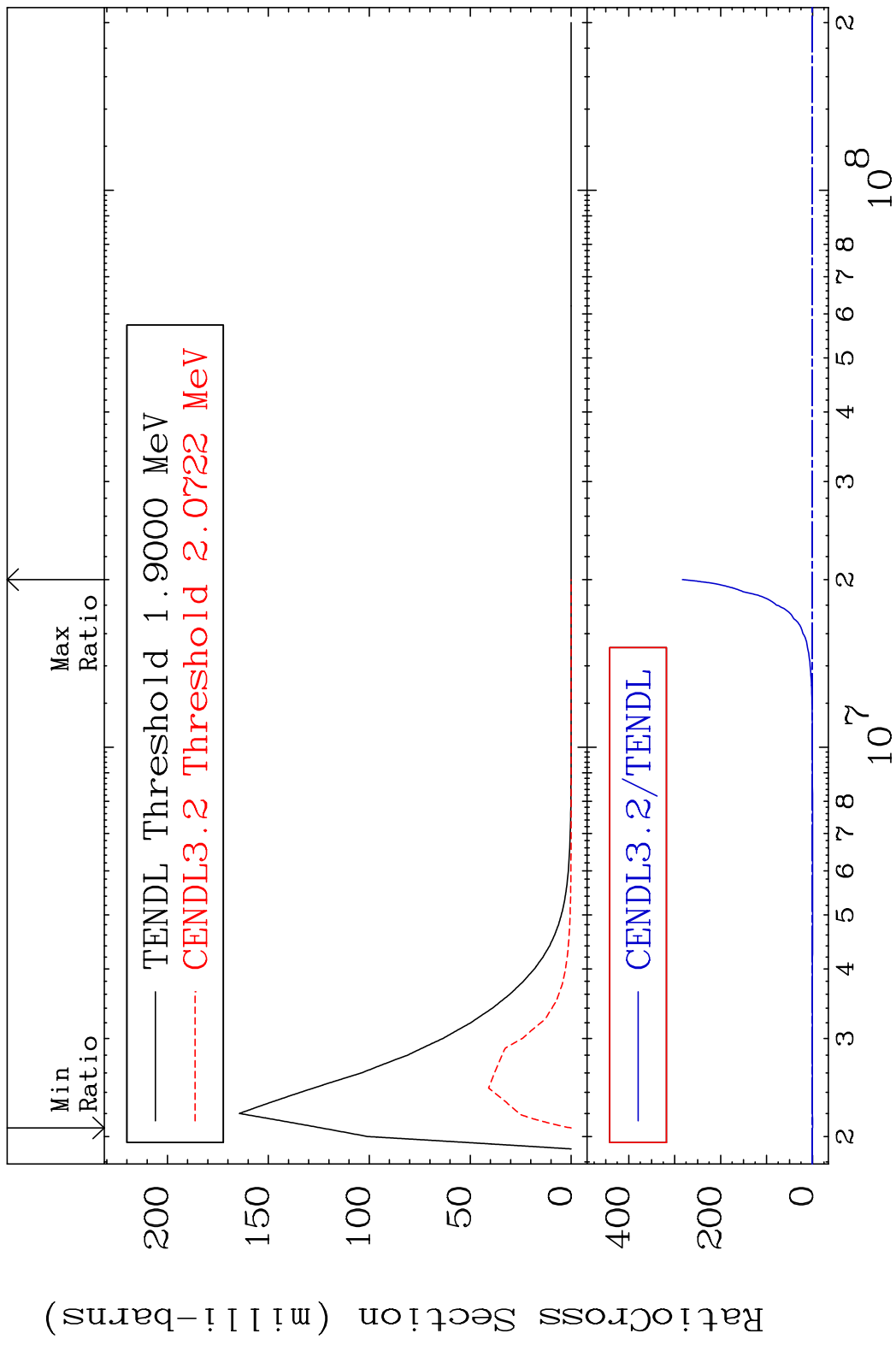
MAT 4437 MT= 56 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 9999. %



MAT 4437 MT= 57 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 1330. %



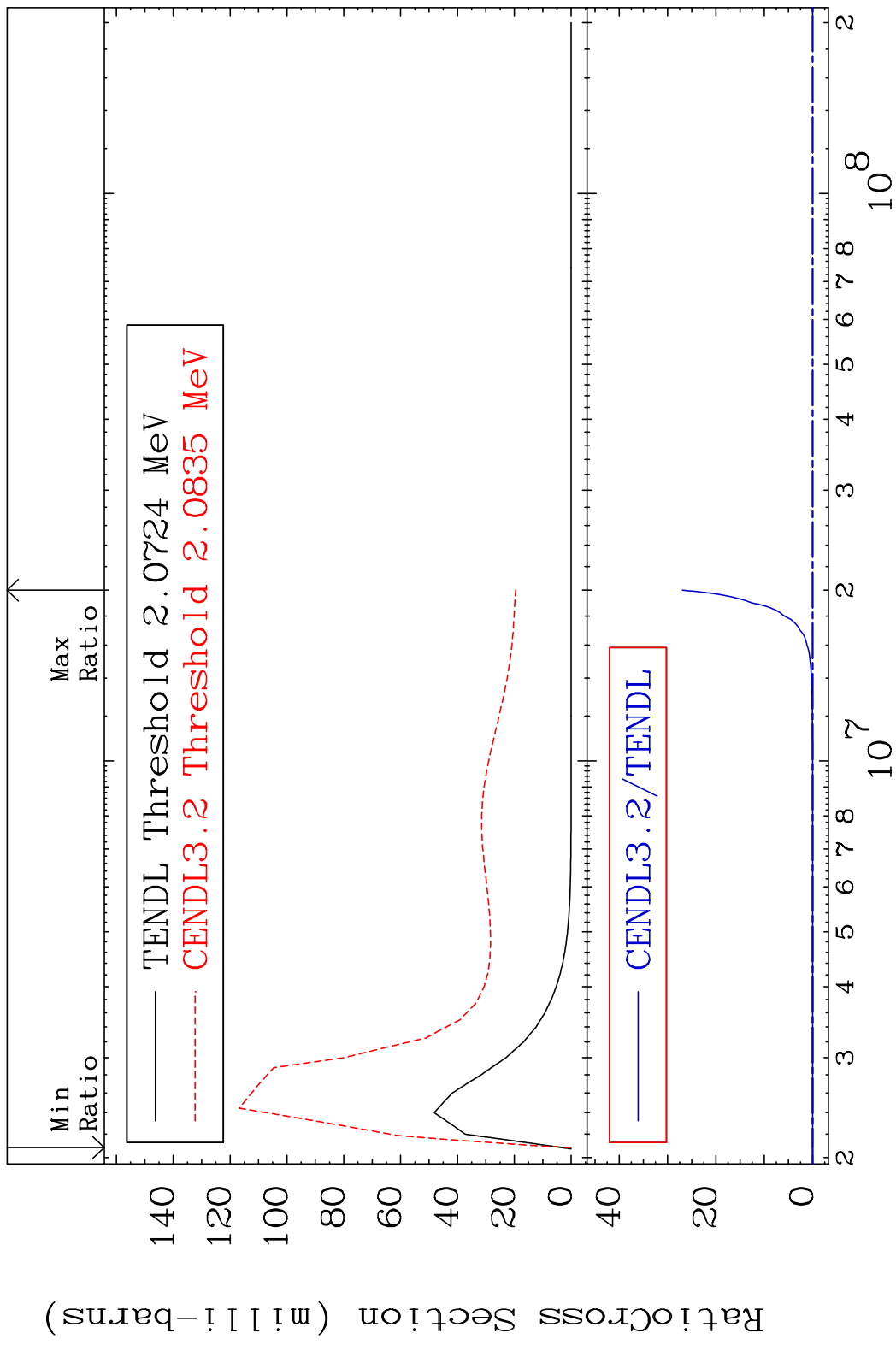
MAT 4437 MT= 58 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 9999. %



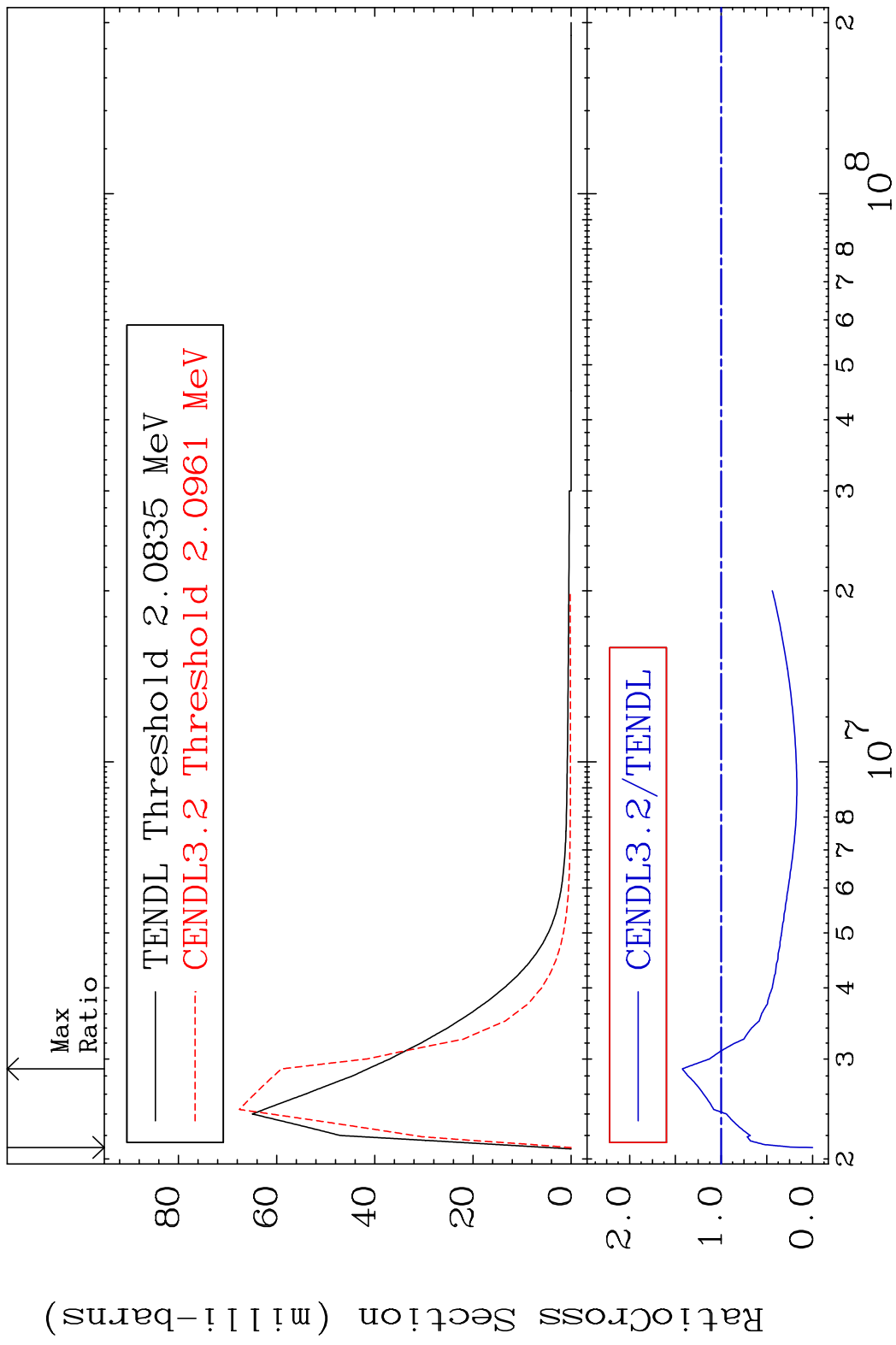
15 Incident Energy (eV) 44-Ru-100



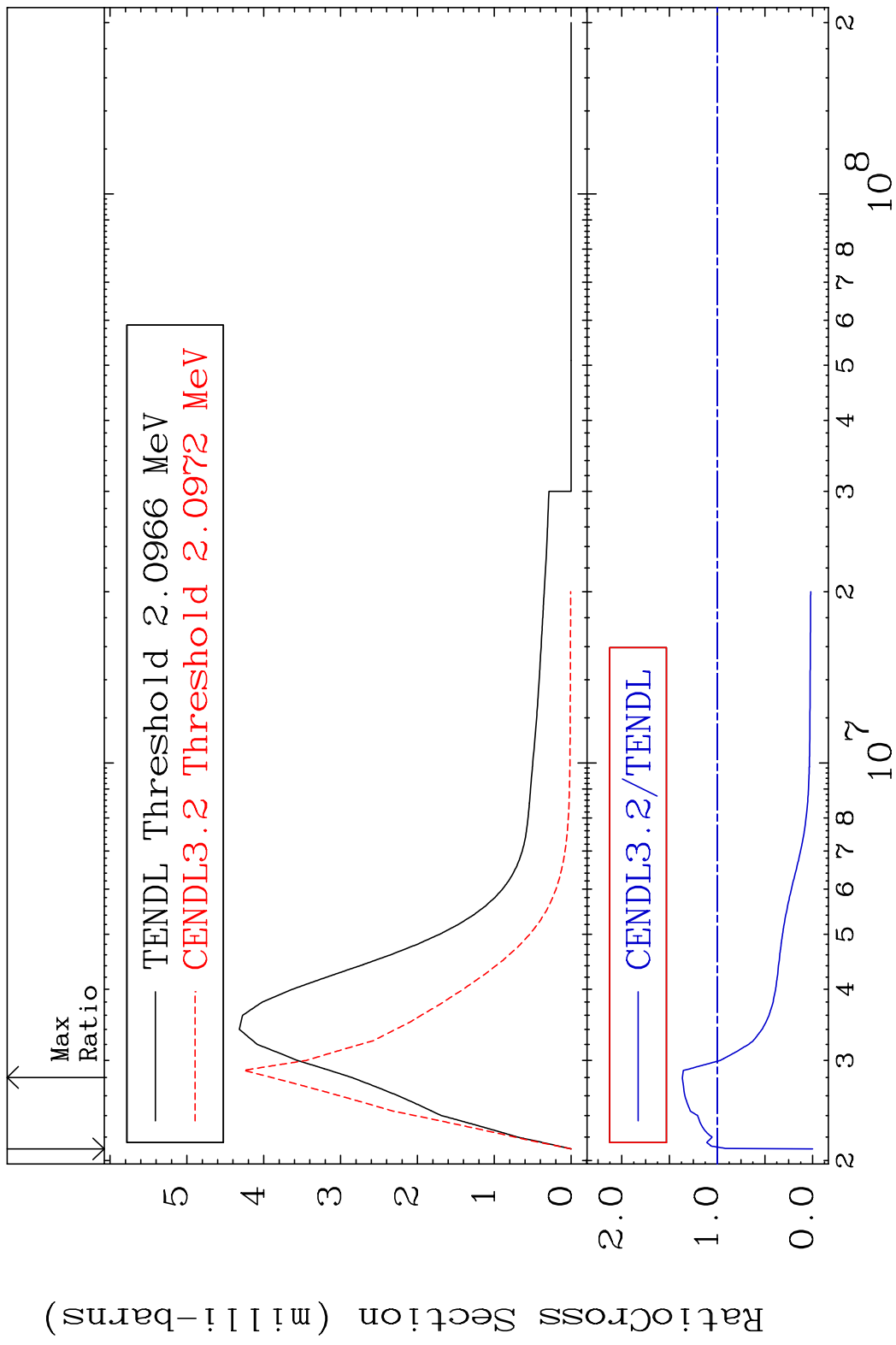
MAT 4437 MT= 59 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 9999. %



MAT 4437 MT= 60 (n,n') Level 44-Ru-100  
 Cross Section -100.0 To 42.33 %



MAT 4437 MT= 61 (n, n') Level 44-Ru-100  
 Cross Section -100.0 To 36.52 %

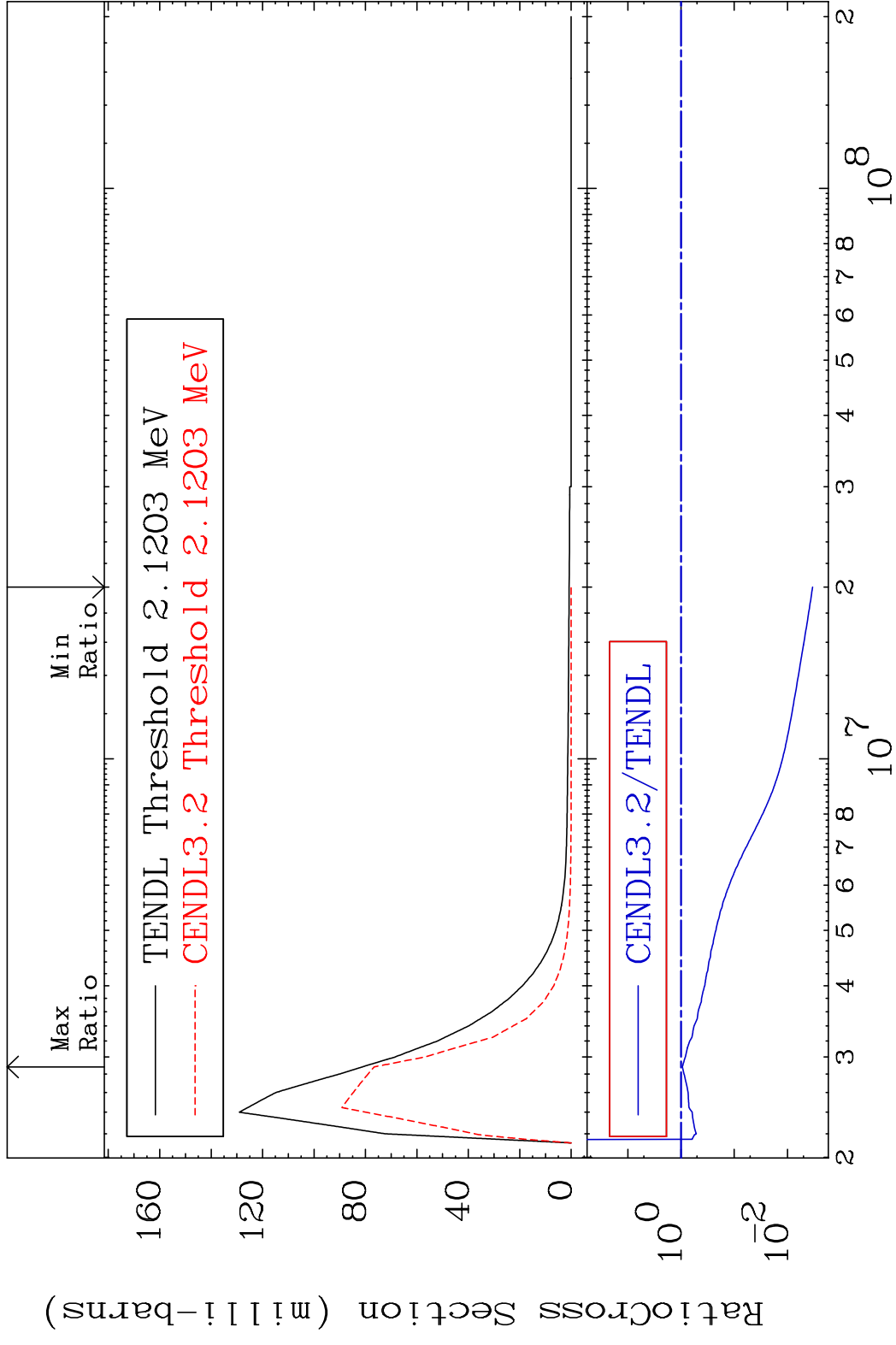


MAT 4437

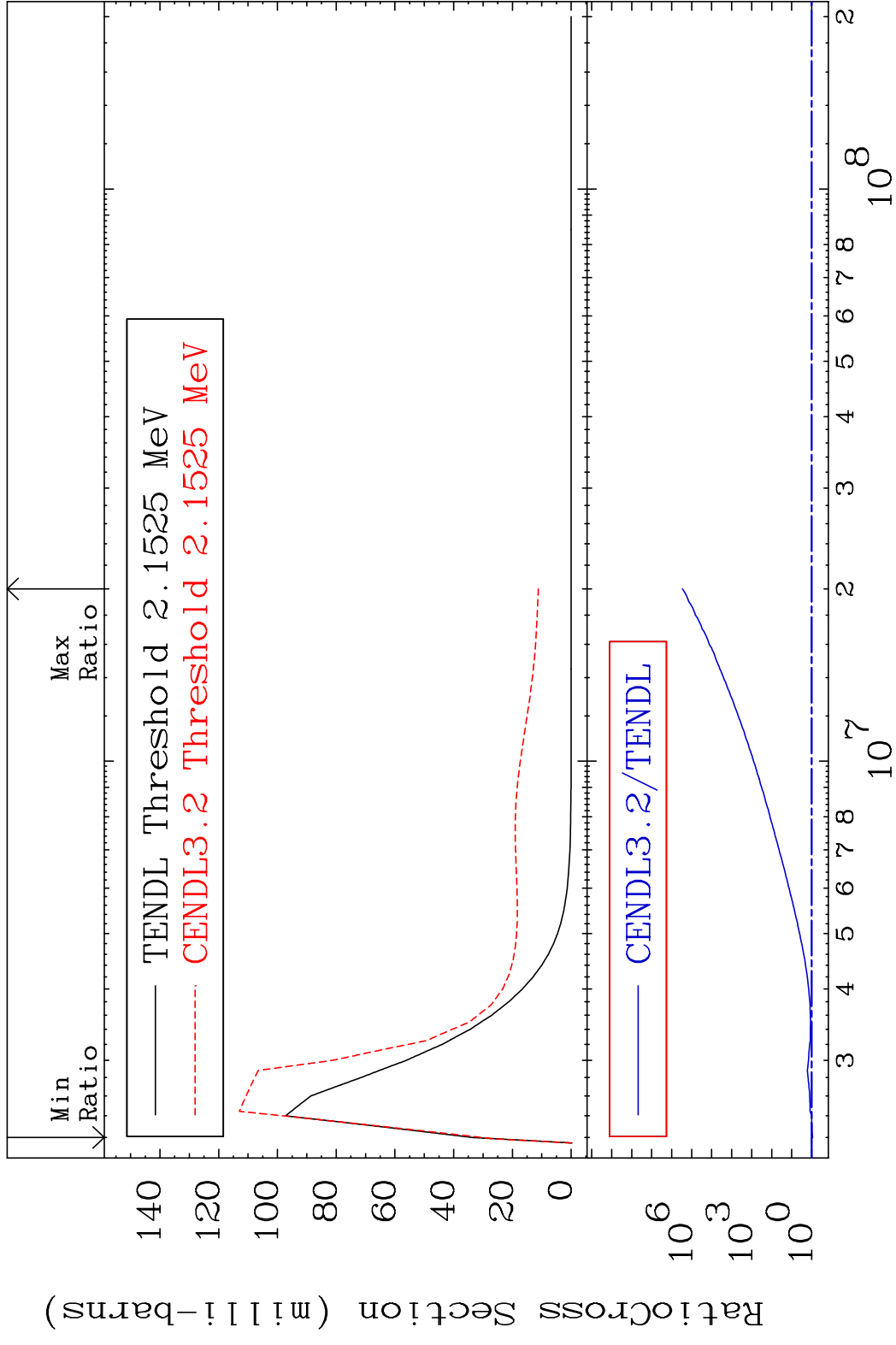
MT= 62 (n, n') Level

44-Ru-100

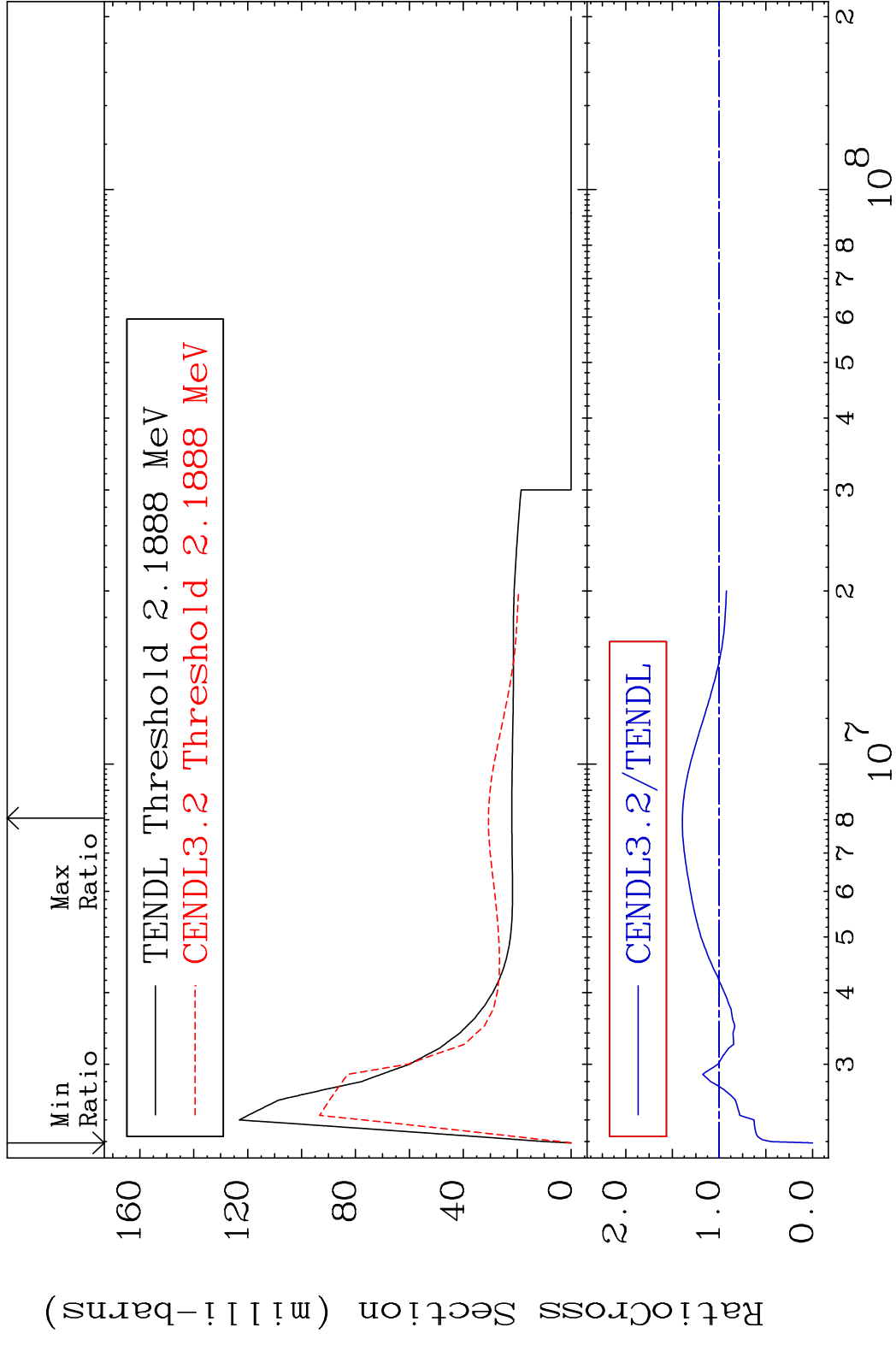
Cross Section -99.66 To -5.705%



MAT 4437 MT= 63 (n, n') Level 44-Ru-100  
 Cross Section -9.578 To 9999. %



MAT 4437 MT= 64 (n,n') Level 44-Ru-100  
 Cross Section -100.0 To 39.38 %

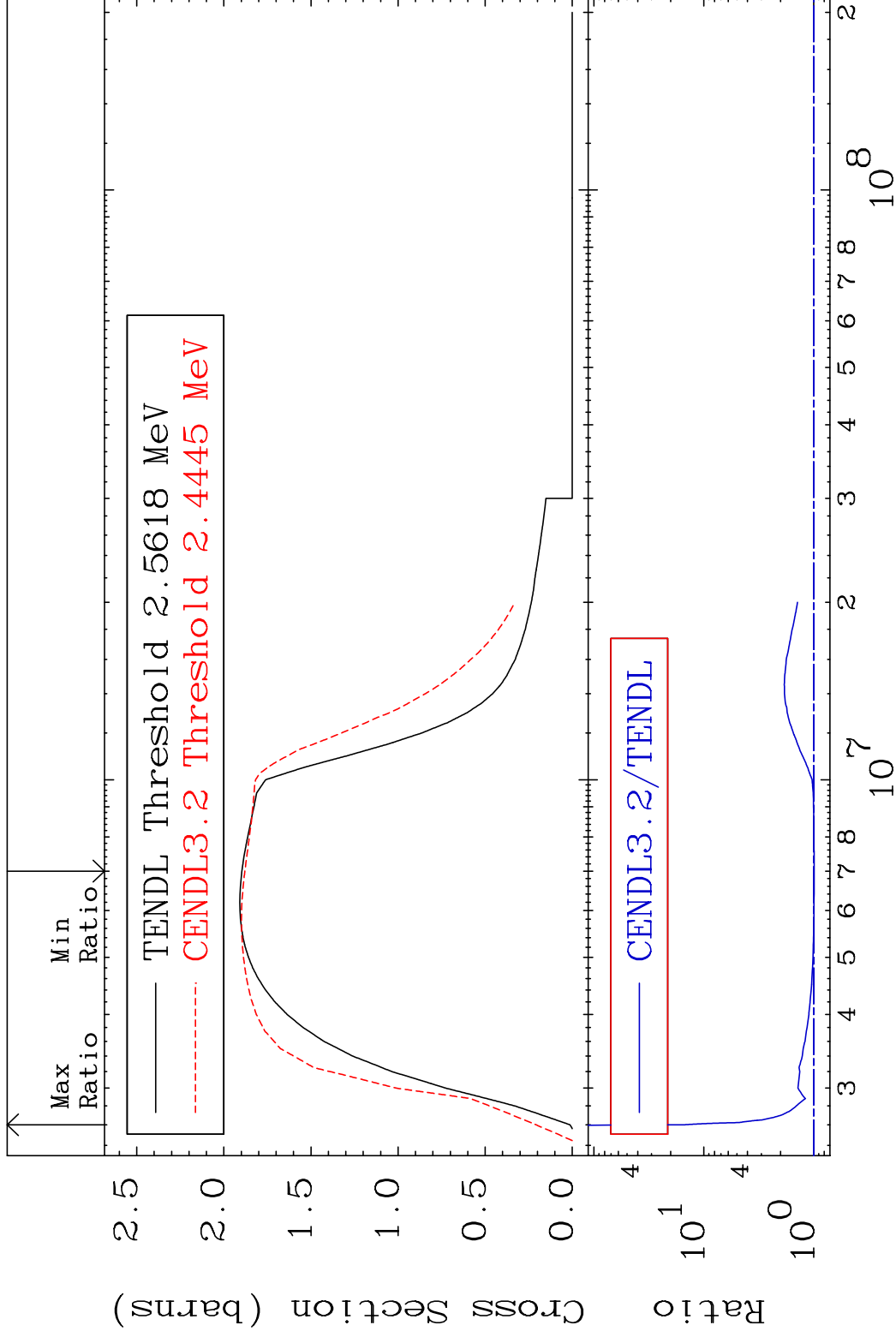


MAT 4437

(n,n') Continuum

44-Ru-100

Cross Section -0.891 To 1427. %



22

Incident Energy (eV)

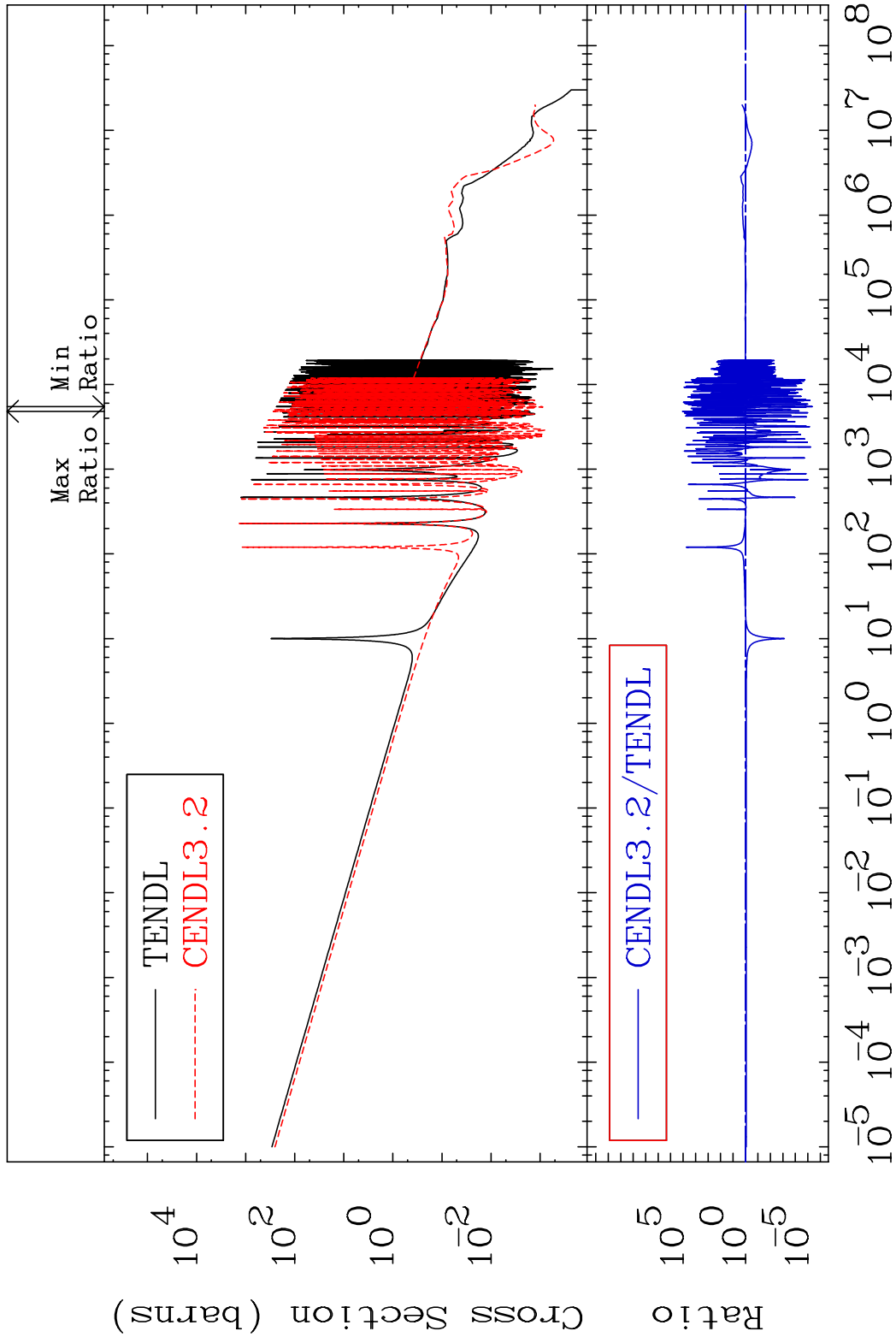
44-Ru-100

MAT 4437

(n,  $\gamma$ )

44-Ru-100

Cross Section -100.0 To 9999. %



23

Incident Energy (eV)

44-Ru-100

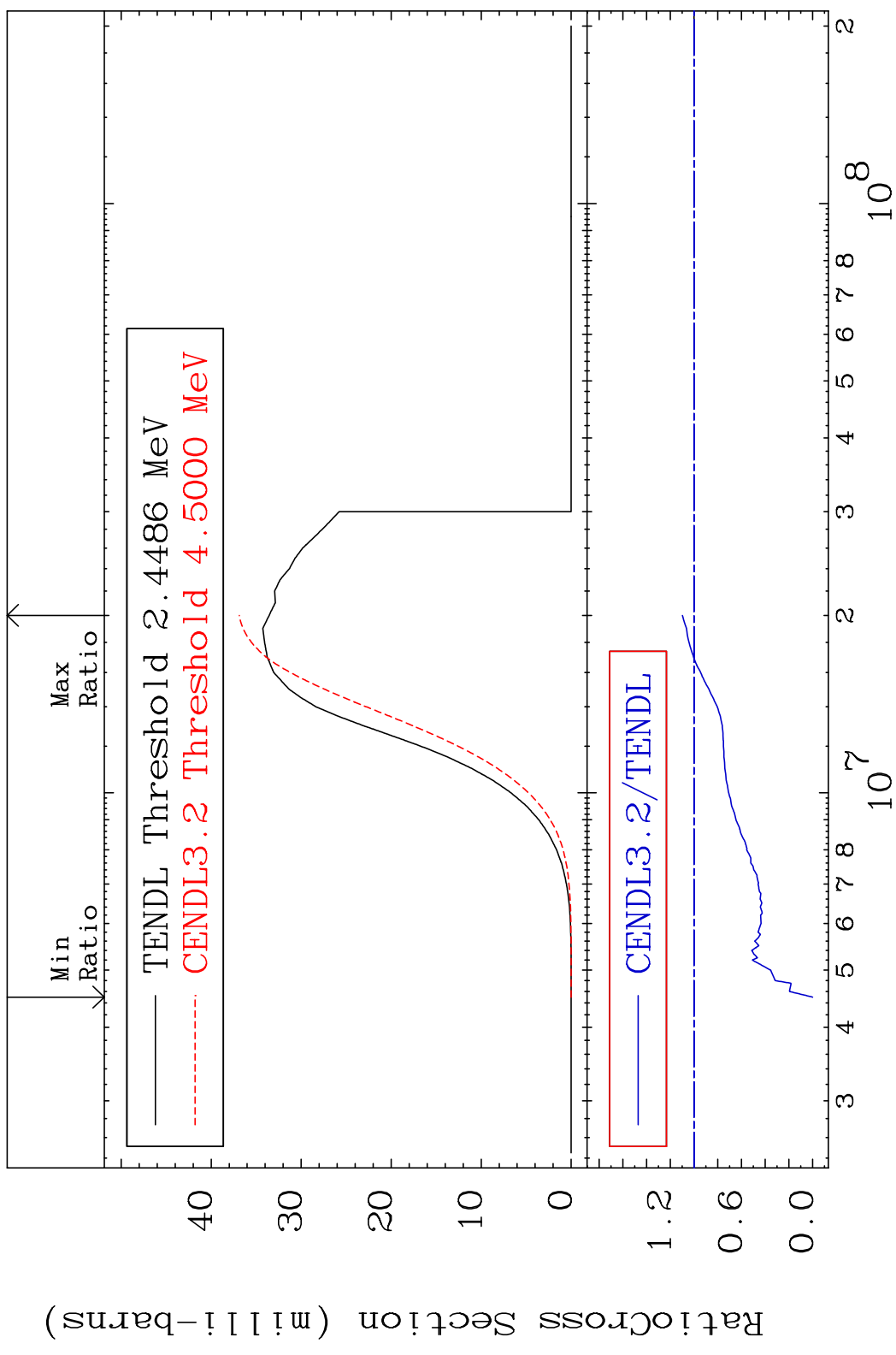


MAT 4437

(n, p)

44-Ru-100

Cross Section -100.0 To 9.860 %



24

Incident Energy (eV)

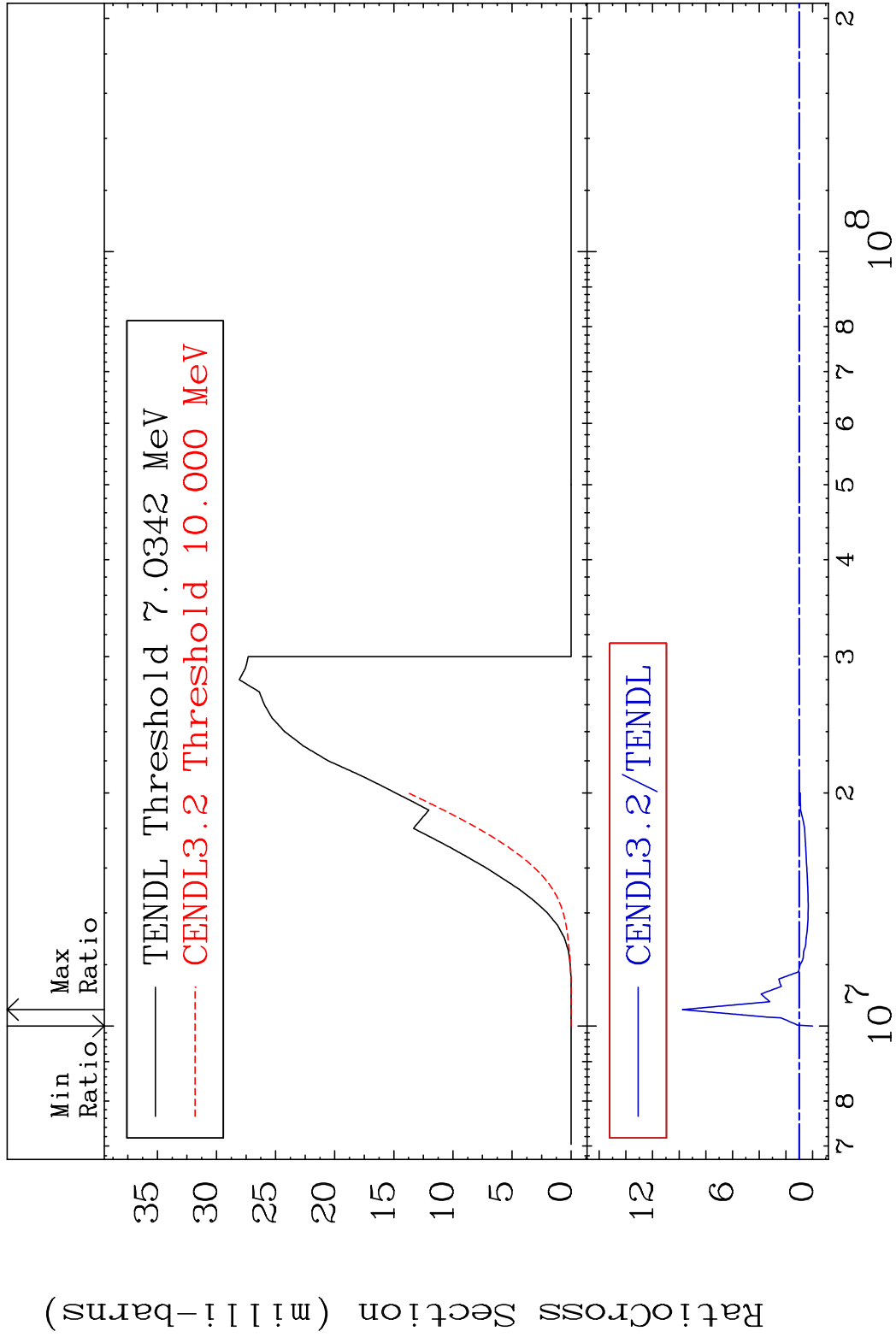
44-Ru-100

MAT 4437

(n,d)

44-Ru-100

Cross Section -100.0 To 876.3 %



25

Incident Energy (eV)

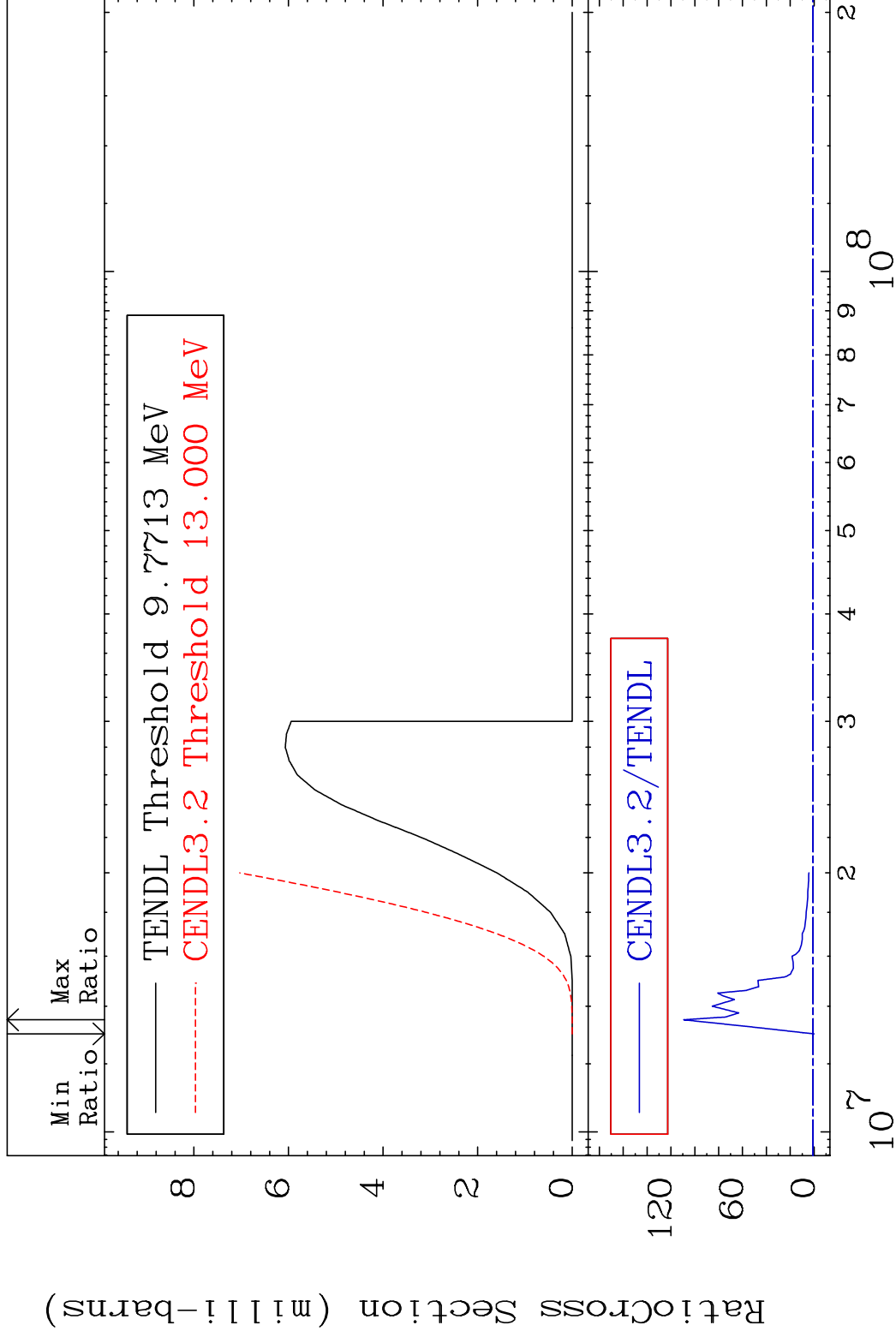
44-Ru-100

MAT 4437

(n, t)

44-Ru-100

Cross Section -100.0 To 9999. %



26

Incident Energy (eV)

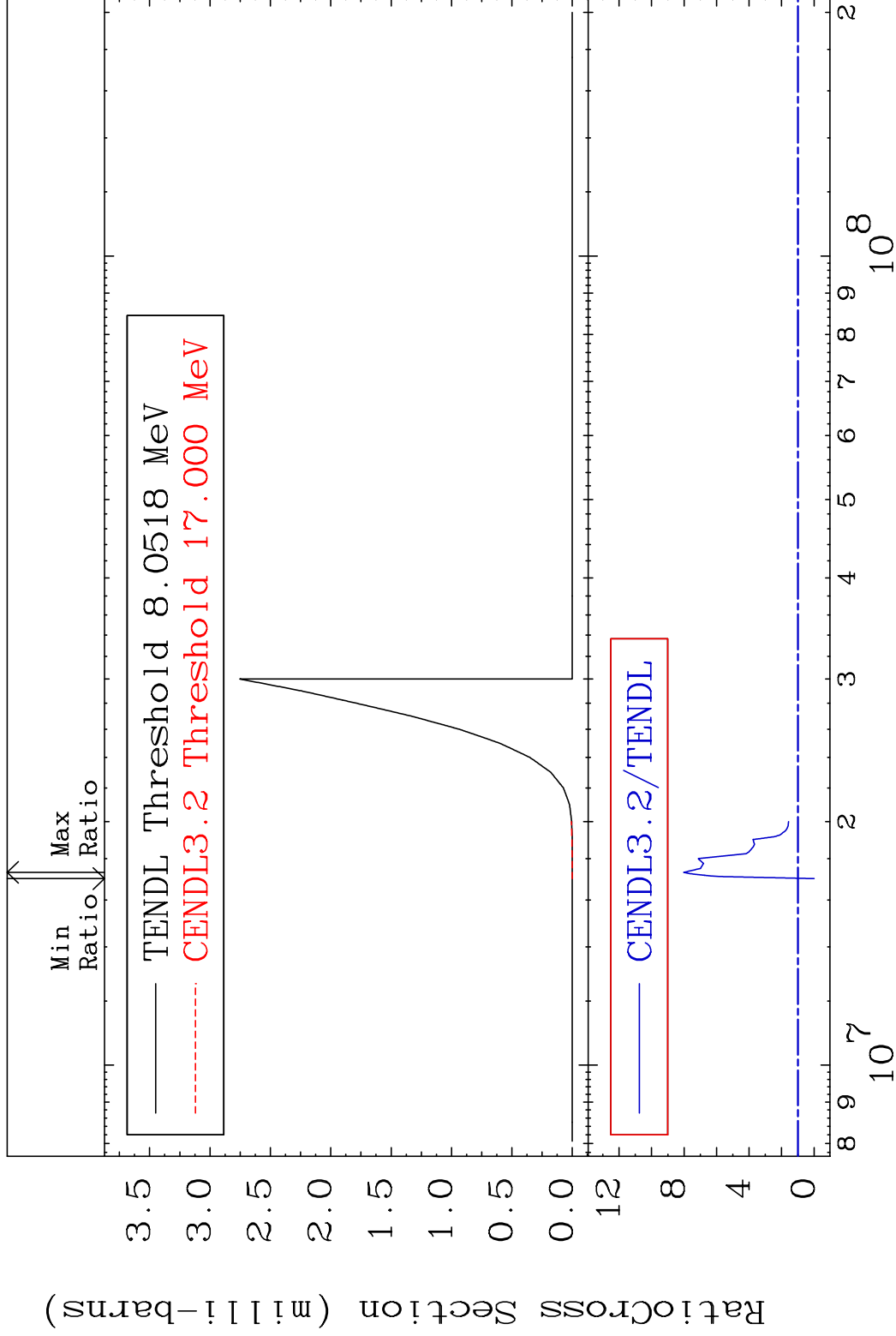
44-Ru-100

MAT 4437

(n, He-3)

44-Ru-100

Cross Section -100.0 To 702.5 %



27

Incident Energy (eV)

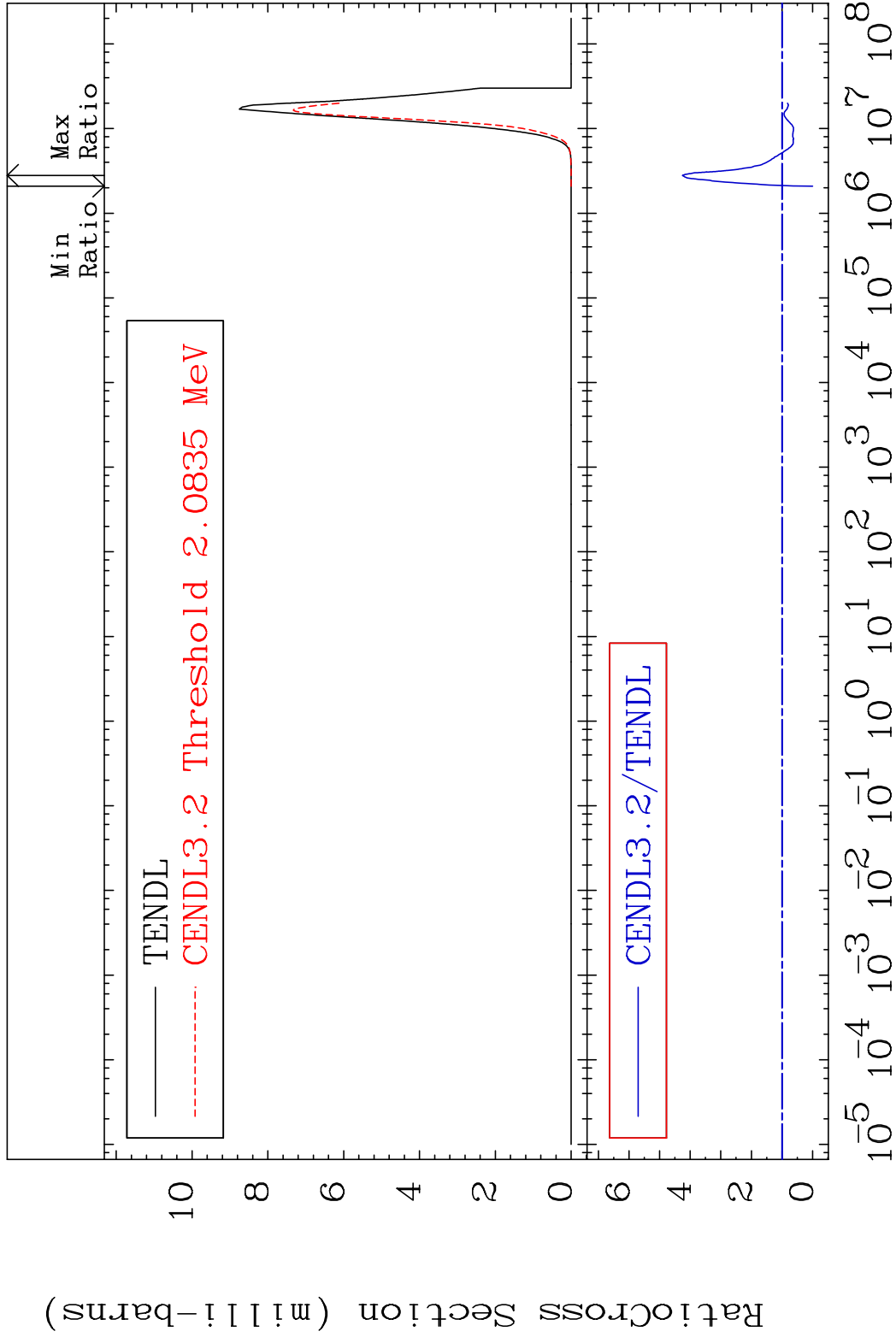
44-Ru-100

MAT 4437

(n,  $\alpha$ )

44-Ru-100

Cross Section -100.0 To 325.6 %



28

Incident Energy (eV)

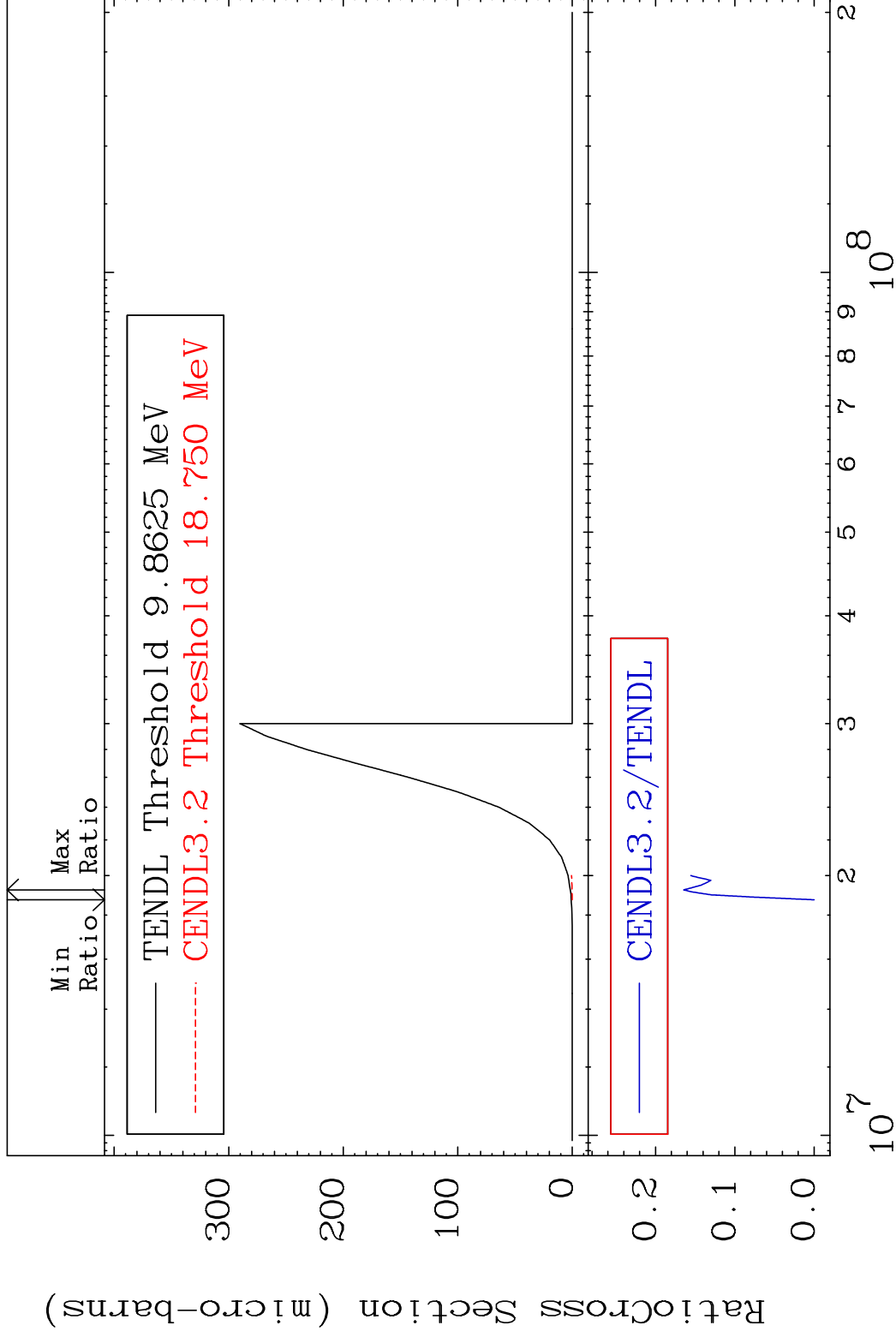
44-Ru-100

MAT 4437

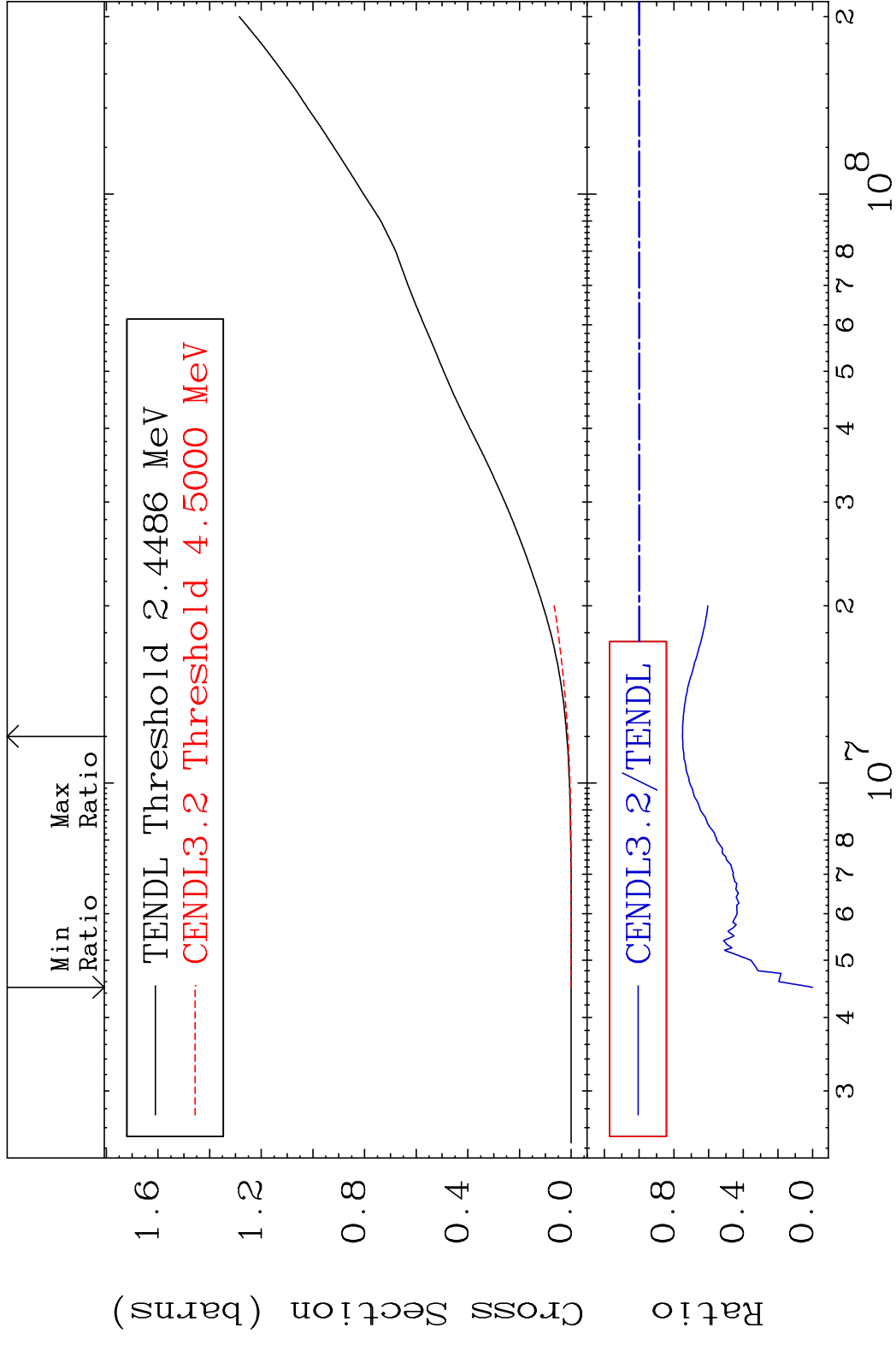
(n,2p)

44-Ru-100

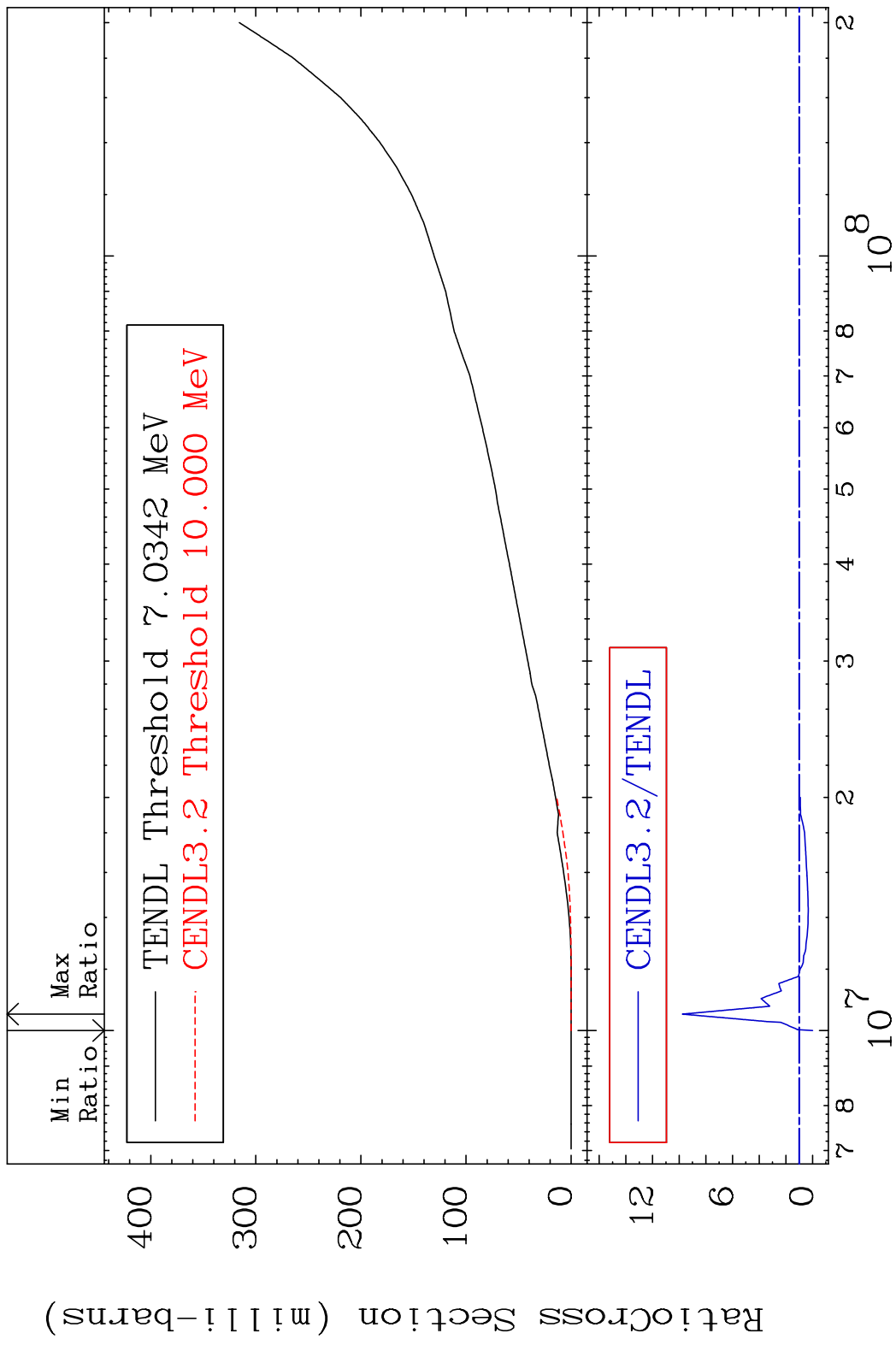
Cross Section -100.0 To -83.55%



MAT 4437 Hydrogen Production 44-Ru-100  
 Cross Section -100.0 To -24.91%

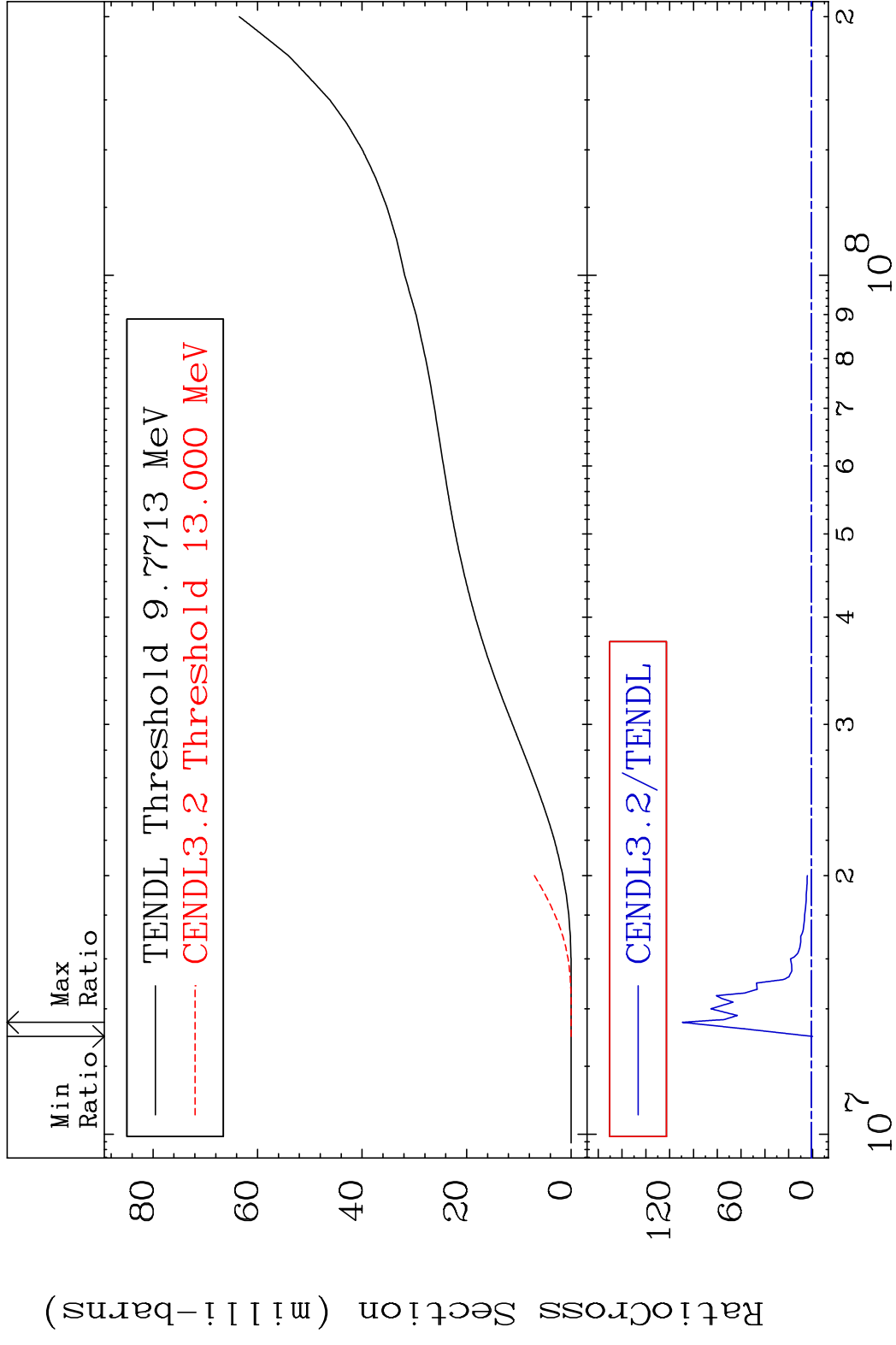


MAT 4437 Deuterium Production 44-Ru-100  
 Cross Section -100.0 To 876.3 %





MAT 4437 Tritium Production 44-Ru-100  
 Cross Section -100.0 To 9999. %



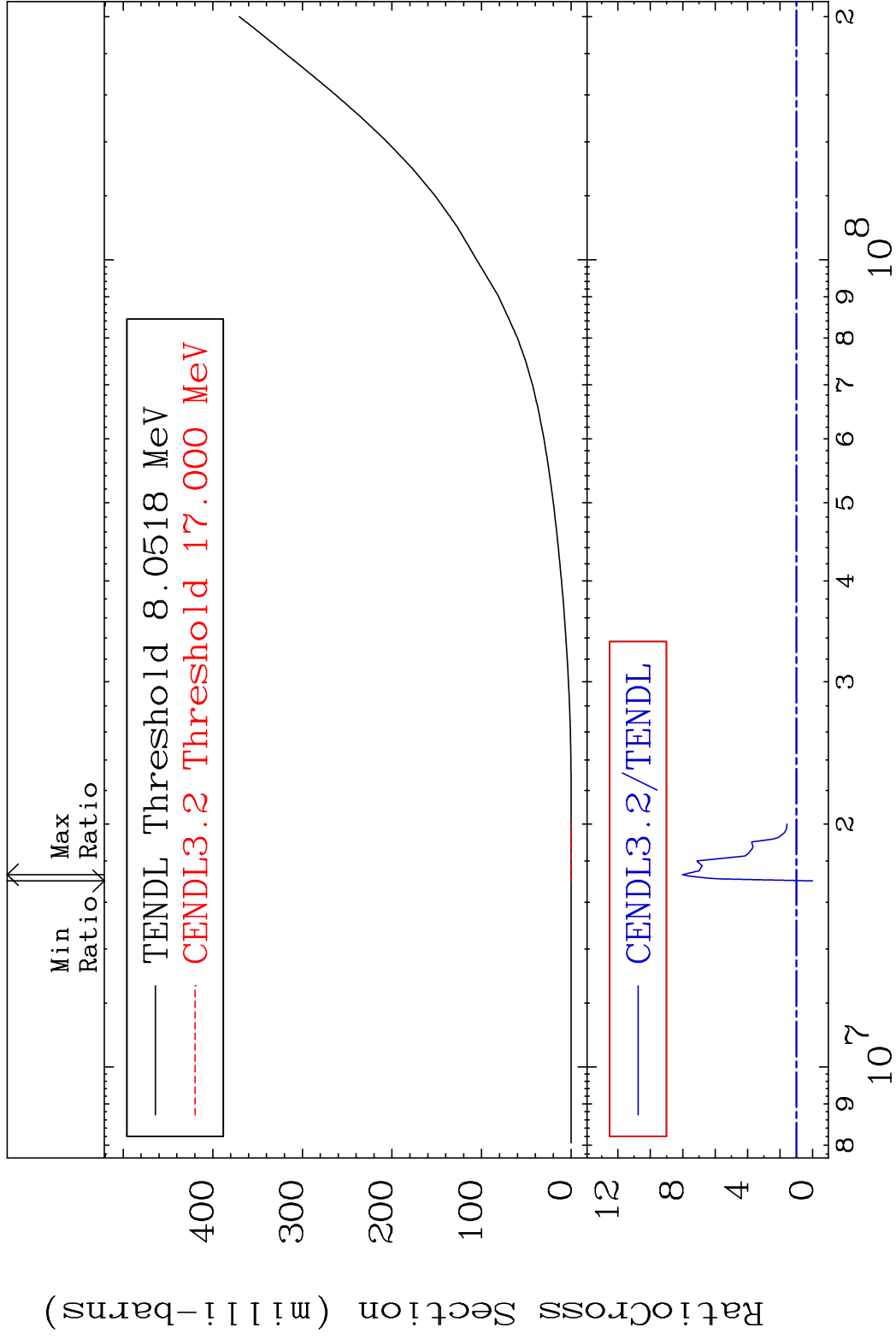
32 44-Ru-100

MAT 4437

He-3 Production

44-Ru-100

Cross Section -100.0 To 702.5 %



33

Incident Energy (eV)

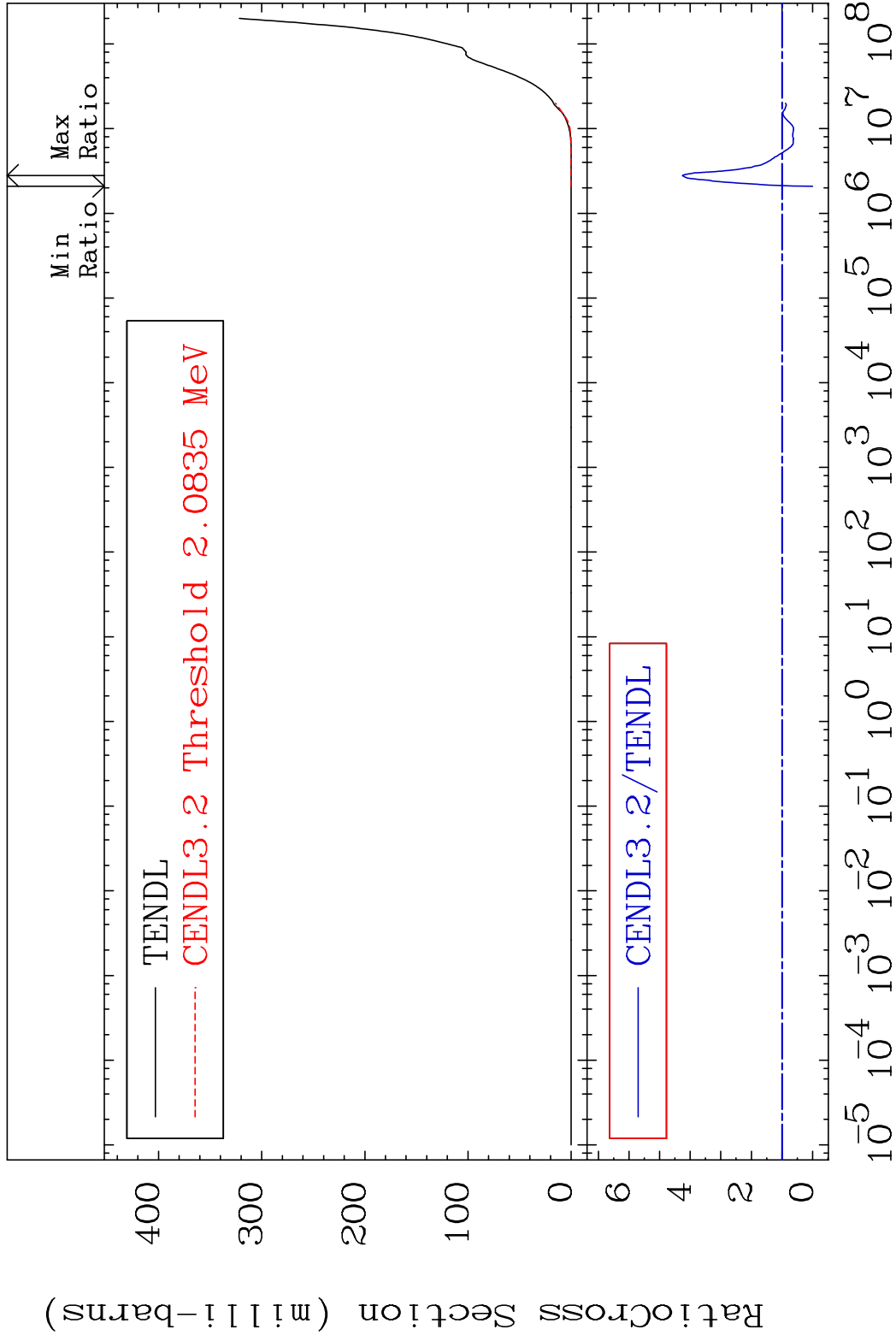
44-Ru-100

MAT 4437

He-4 Production

44-Ru-100

Cross Section -100.0 To 325.6 %



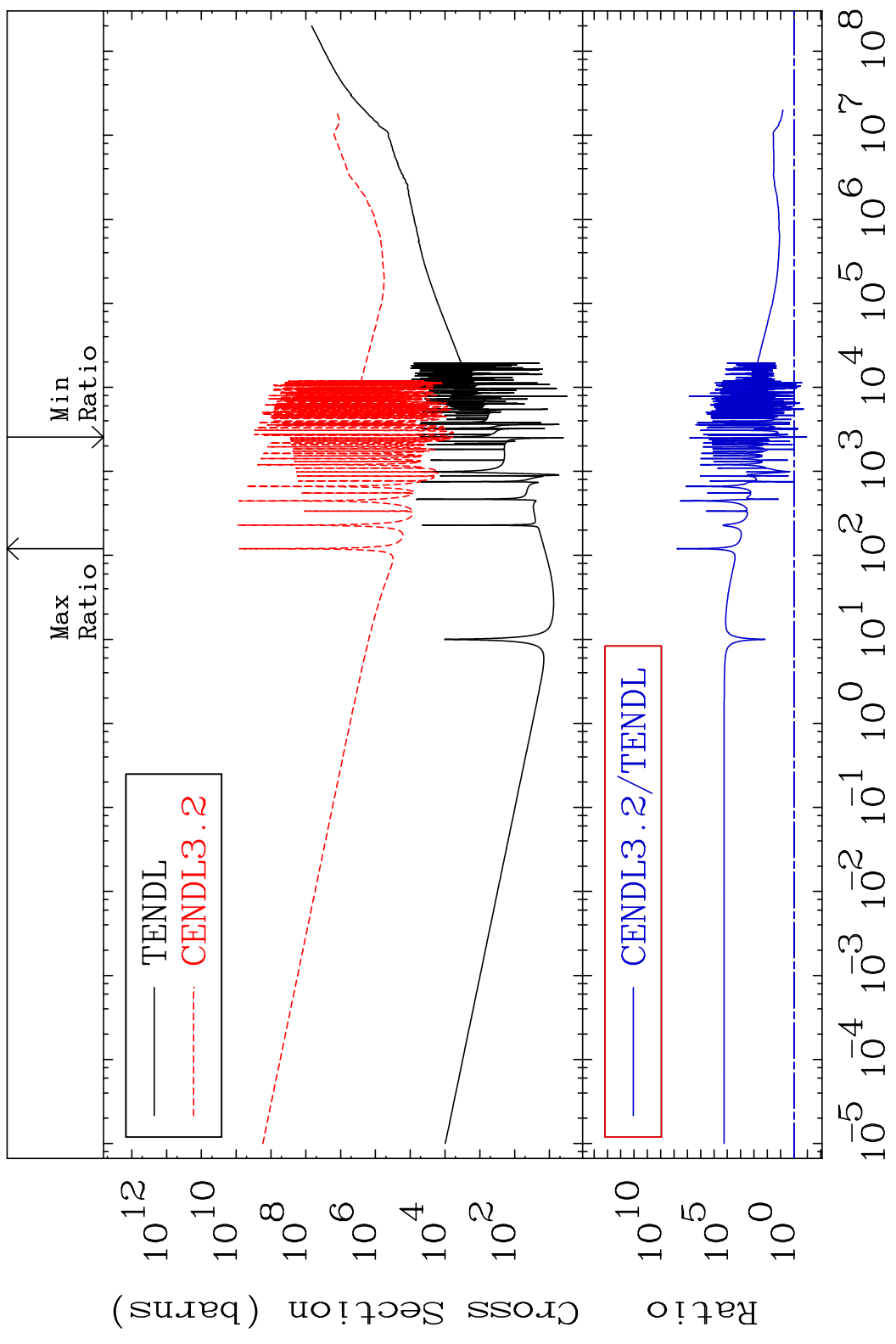
34

Incident Energy (eV)

44-Ru-100

MAT 4437

Kerma total (eV-barns) 44-Ru-100  
Cross Section -88.37 To 9999. %

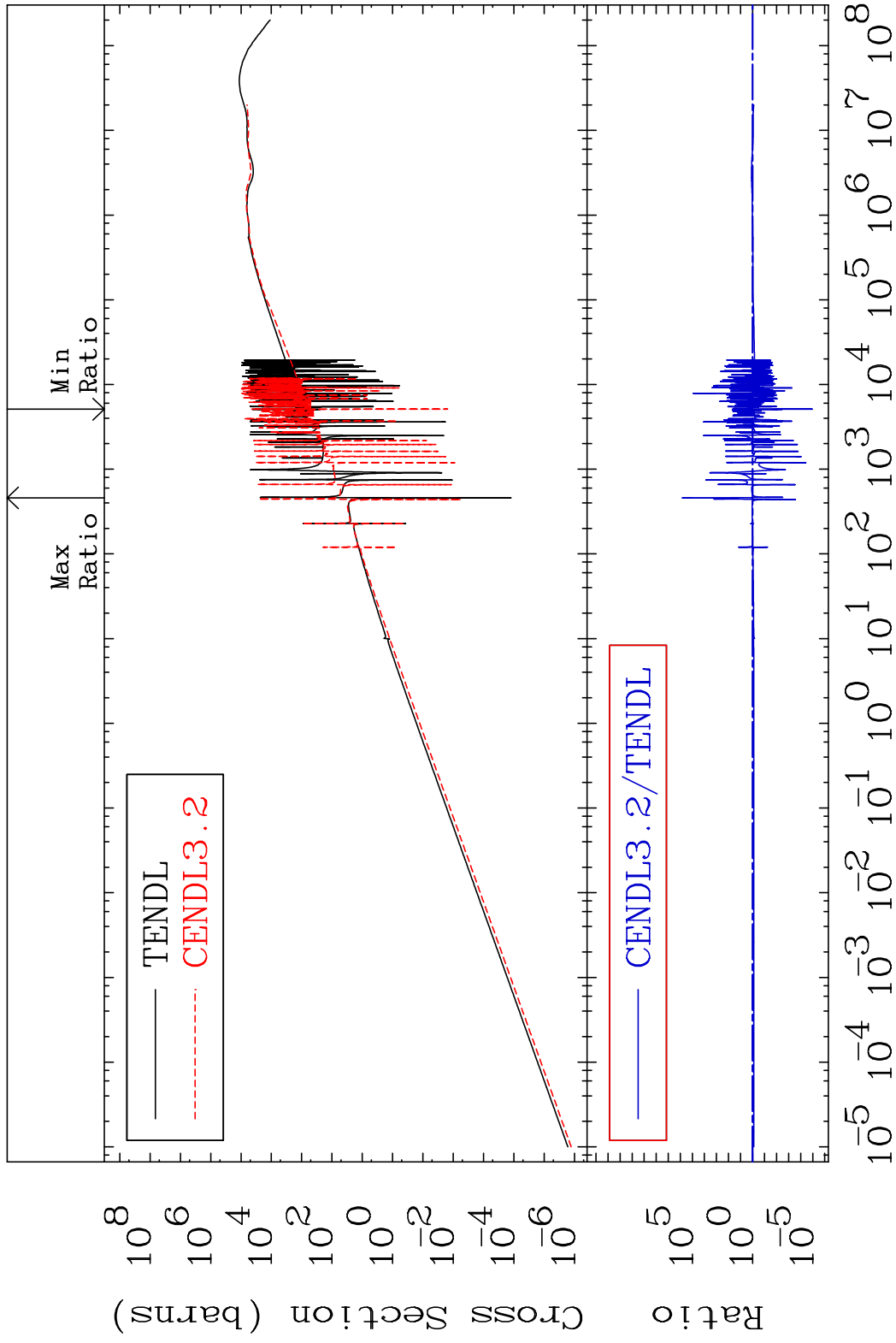


MAT 4437

Kerma elastic

44-Ru-100

Cross Section -100.0 To 9999. %

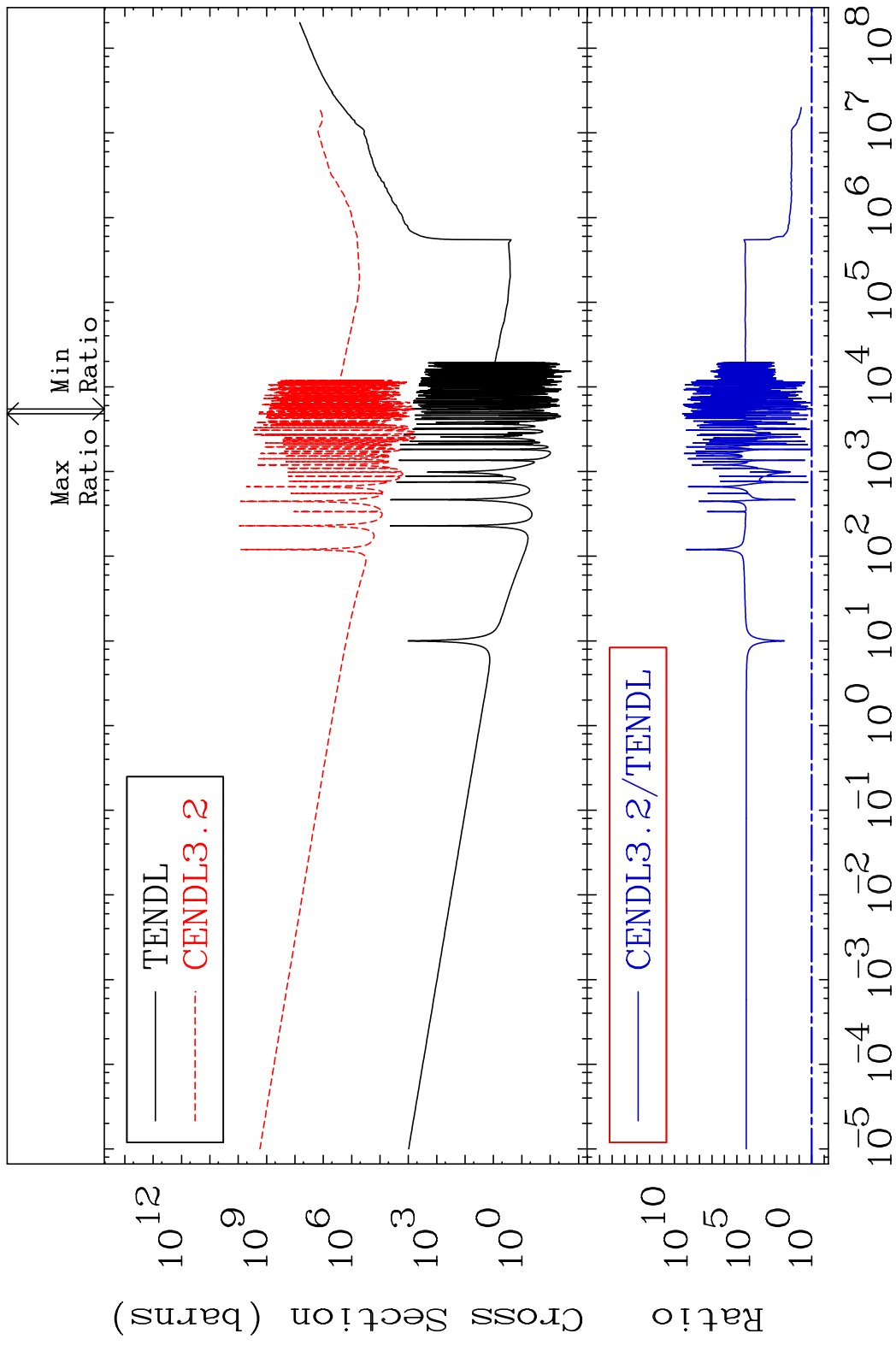


36

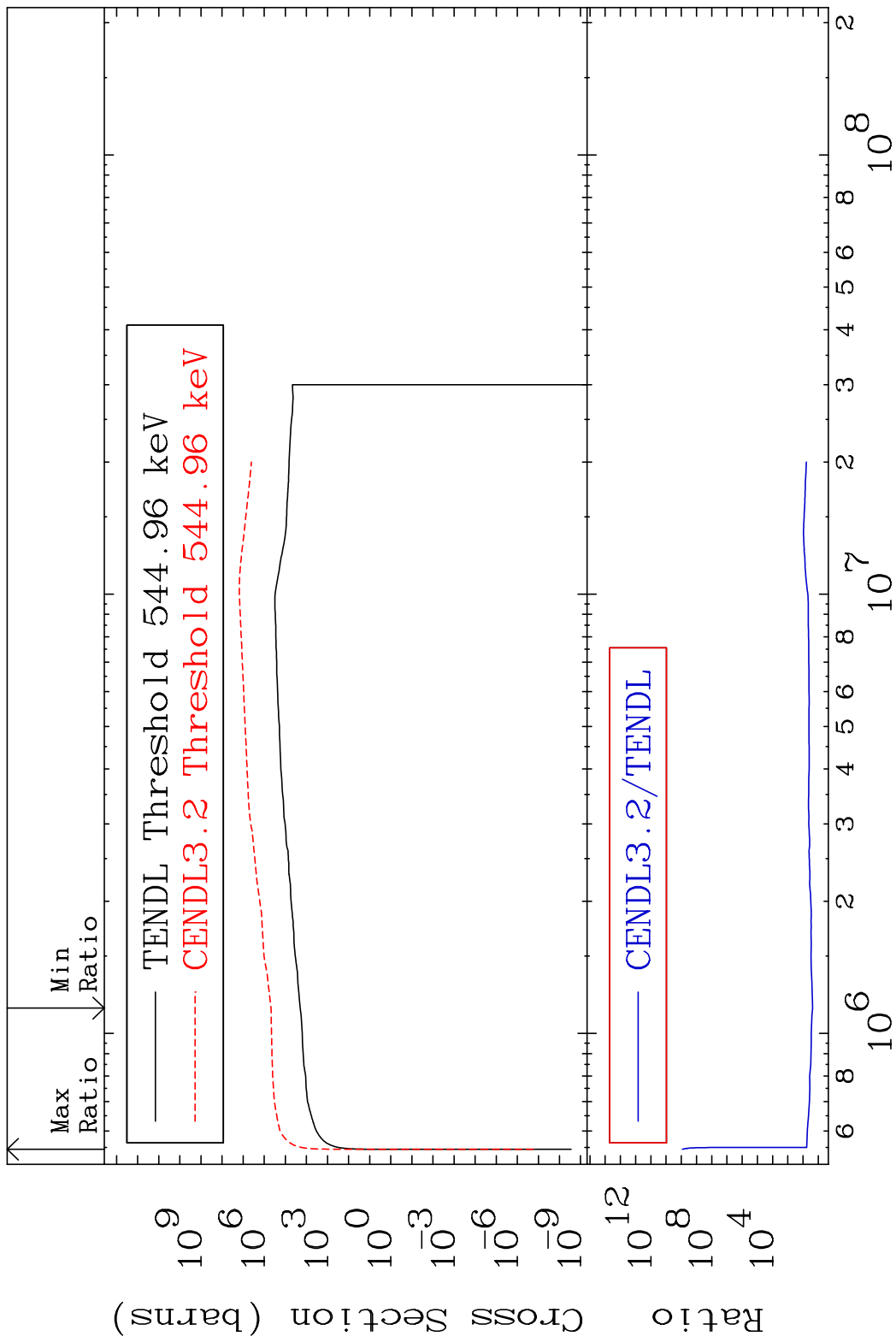
Incident Energy (eV)

44-Ru-100

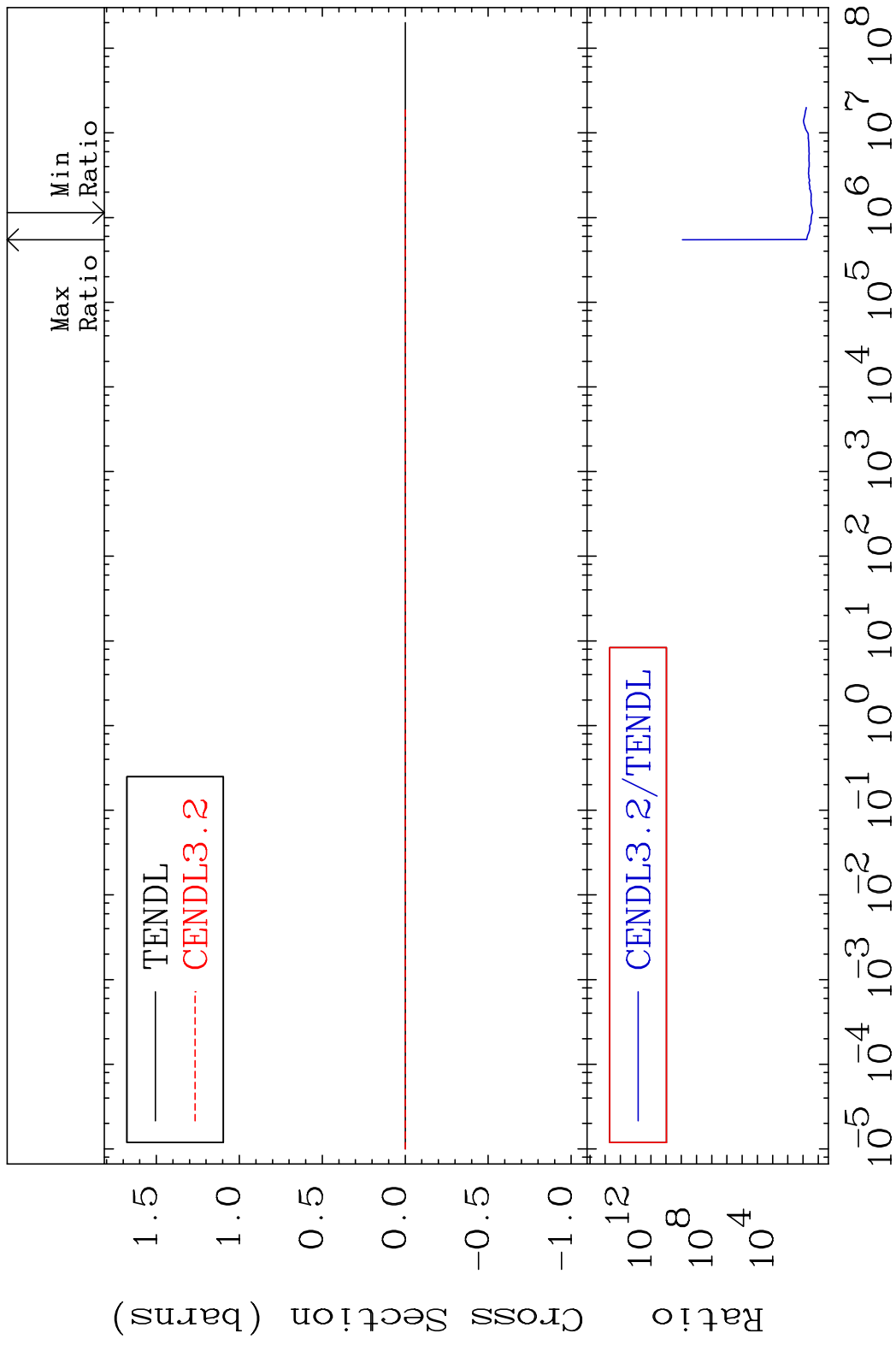
MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100  
 Cross Section -14.05 To 9999. %



MAT 4437 Kerma inelastic (mt51-91) 44-Ru-100  
 Cross Section 2283. To 9999. %



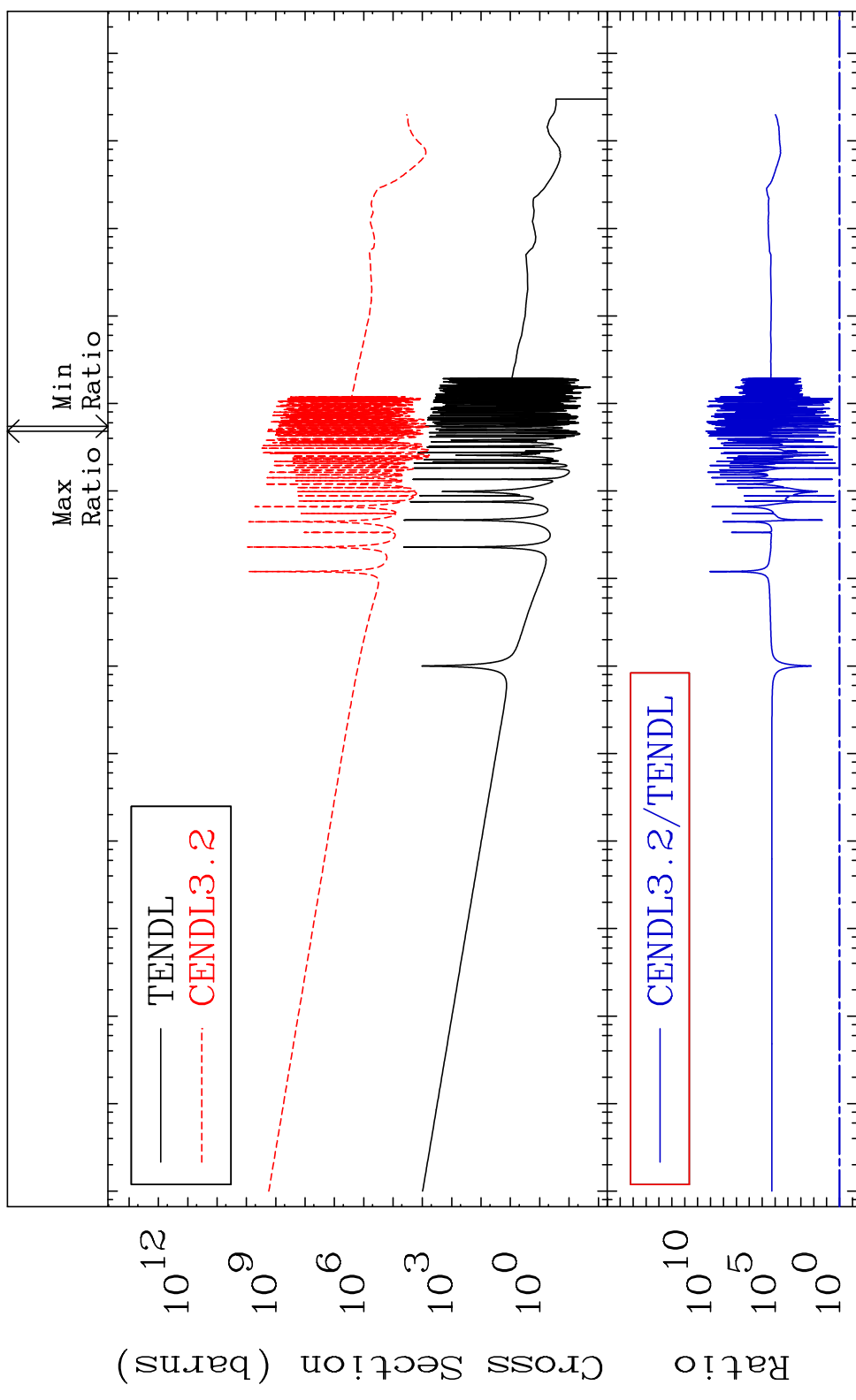
MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100  
 Cross Section 2283. To 9999. %





MAT 4437

Kerma capture (mt102) 44-Ru-100  
Cross Section -14.05 To 9999. %



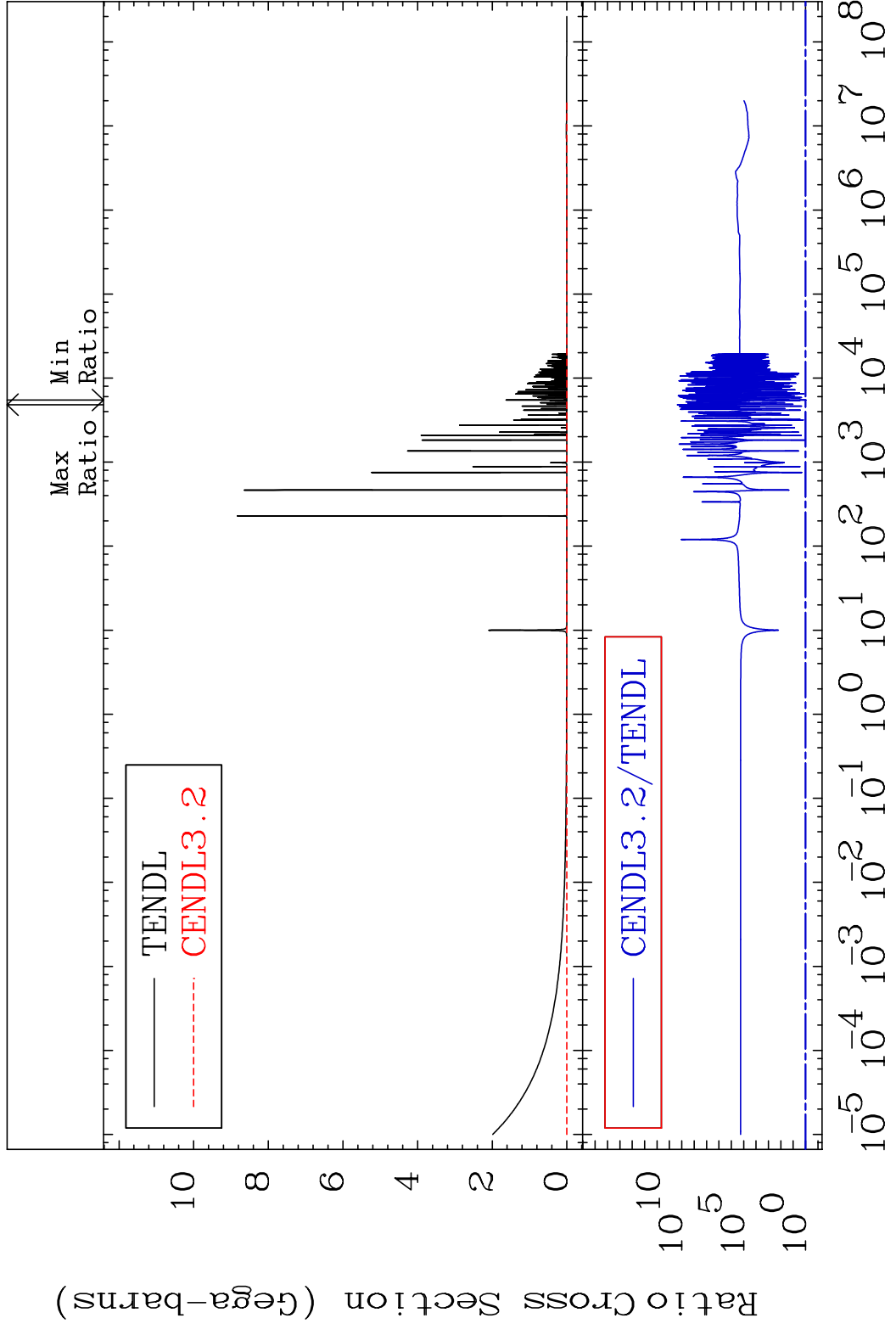
40

Incident Energy (eV)

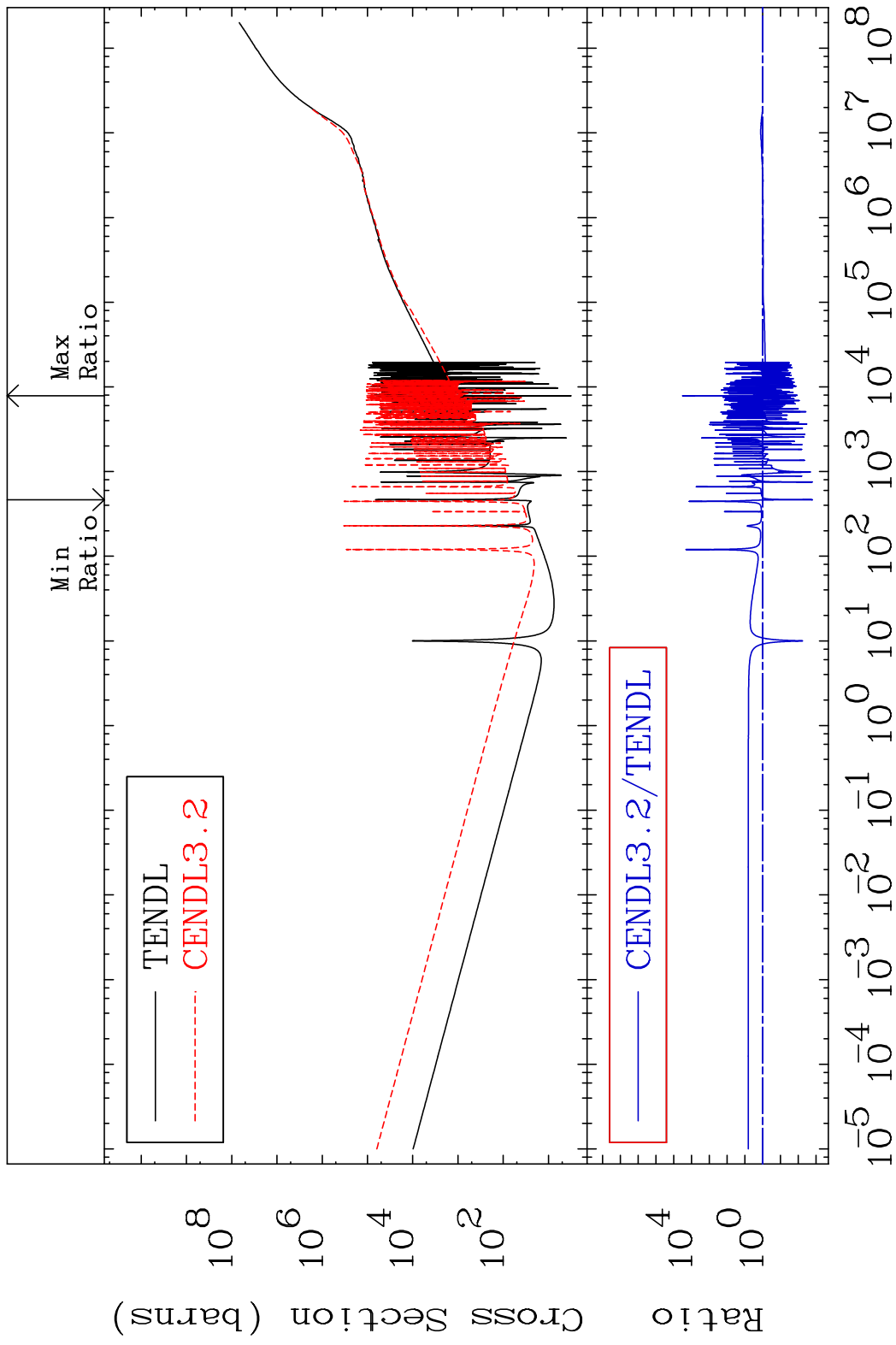
44-Ru-100

MAT 4437

Total photon (eV-barns) 44-Ru-100  
Cross Section -14.05 To 9999. %



MAT 4437 Total kinematic kerma (high limit) 44-Ru-100  
 Cross Section -99.84 To 9999. %

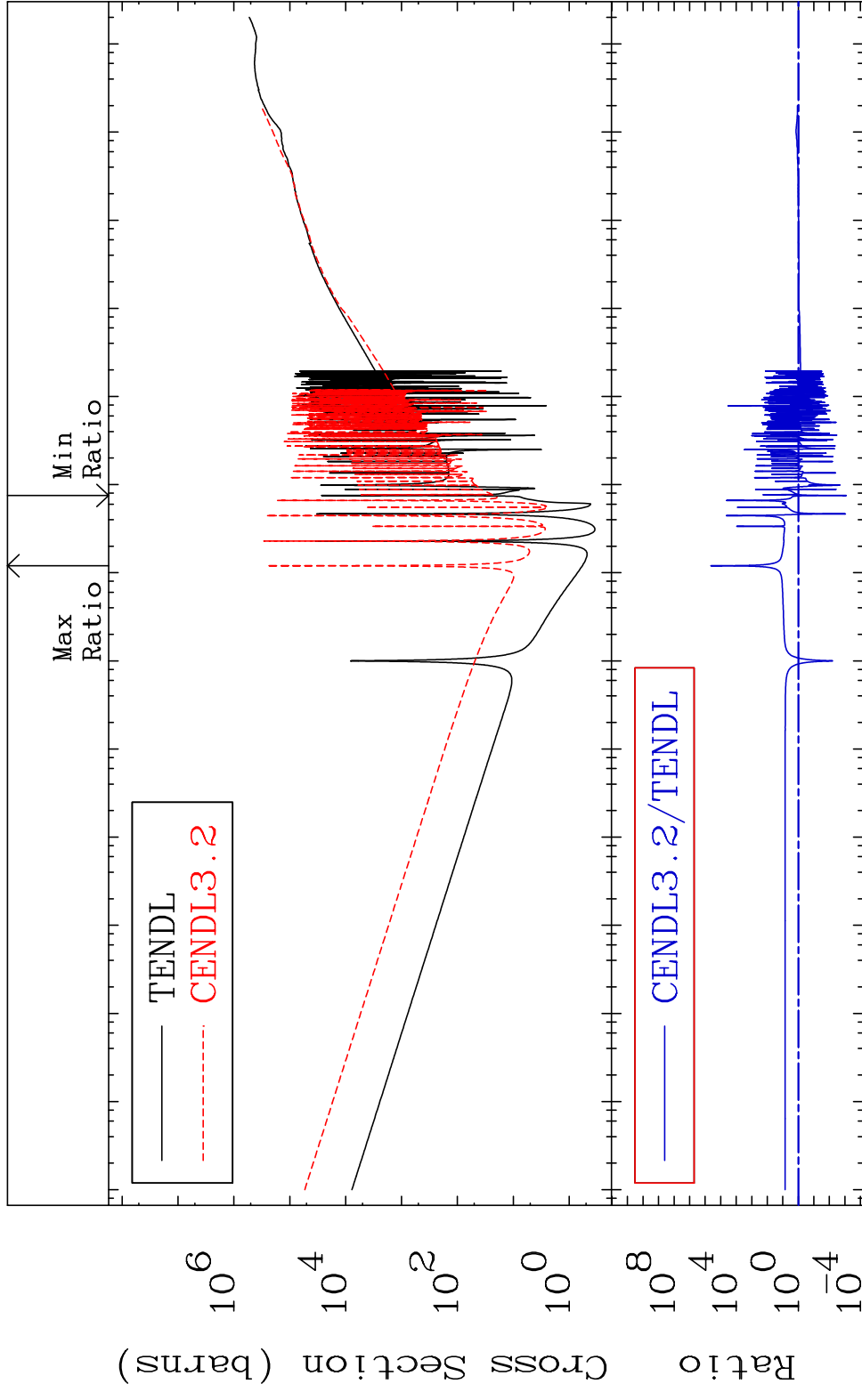


MAT 4437

Dpa total (eV-barns)

44-Ru-100

Cross Section -99.92 To 9999. %



43

Incident Energy (eV)

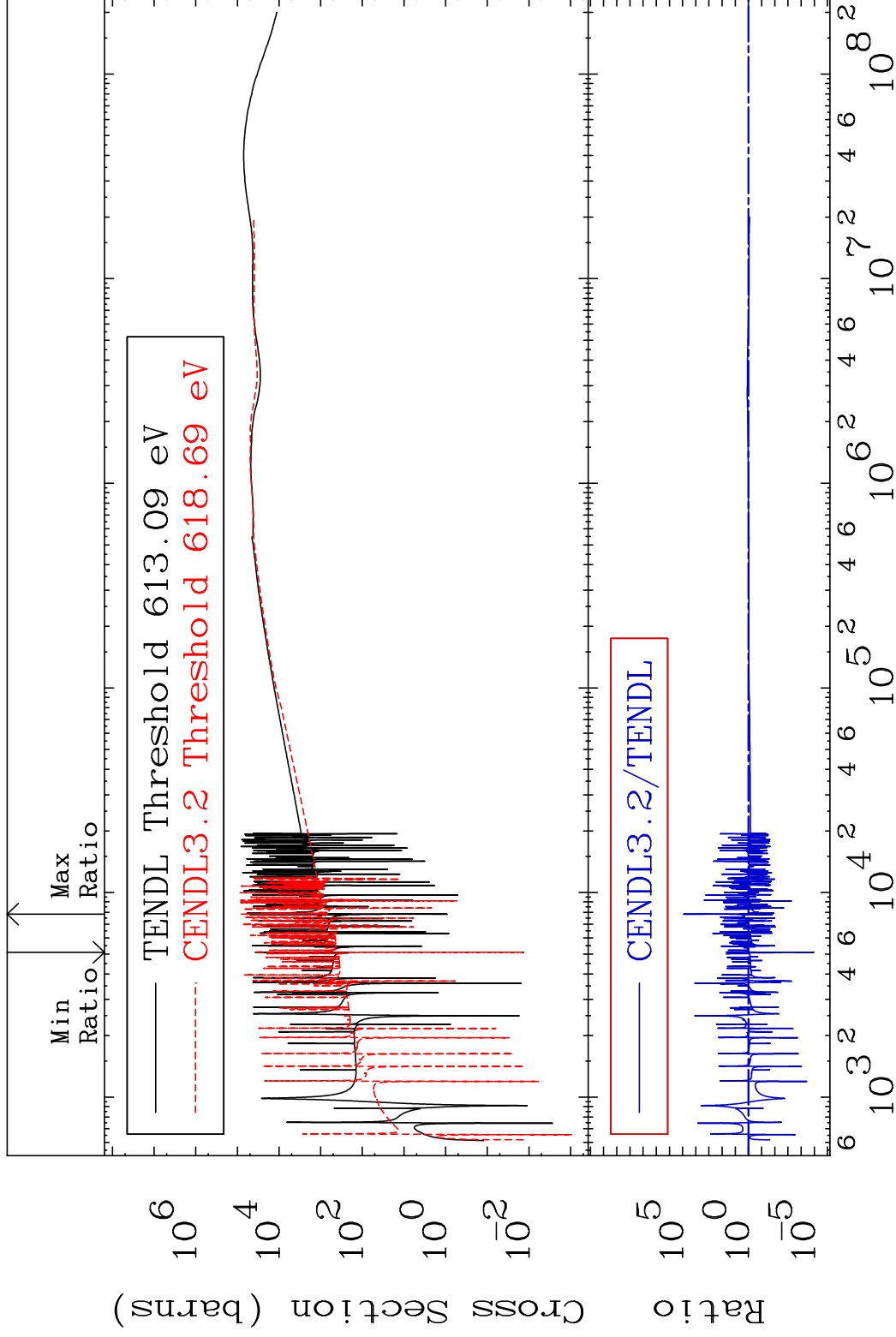
44-Ru-100

MAT 4437

Dpa elastic (mt2)

44-Ru-100

Cross Section -100.0 To 9999. %

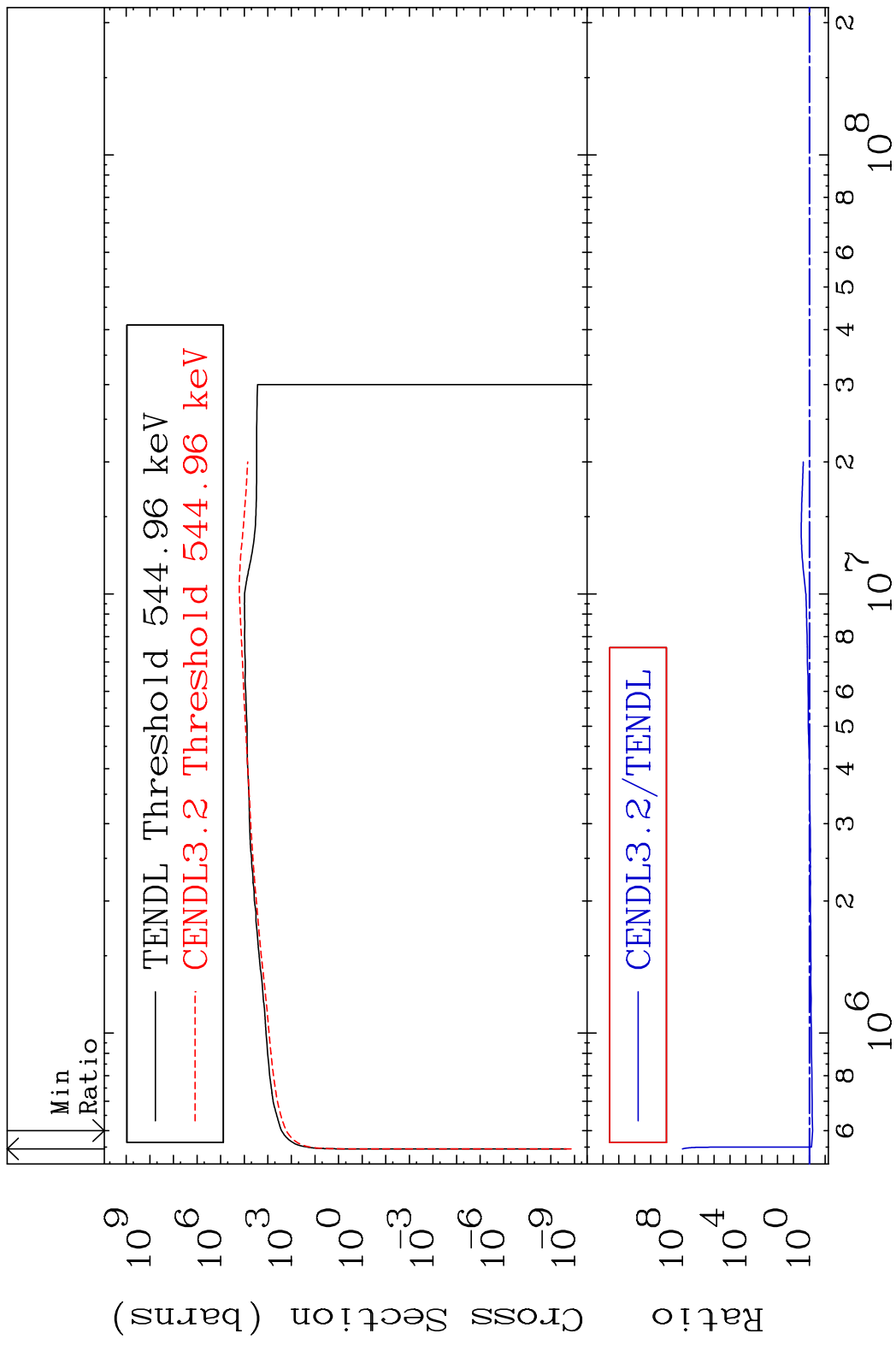


44

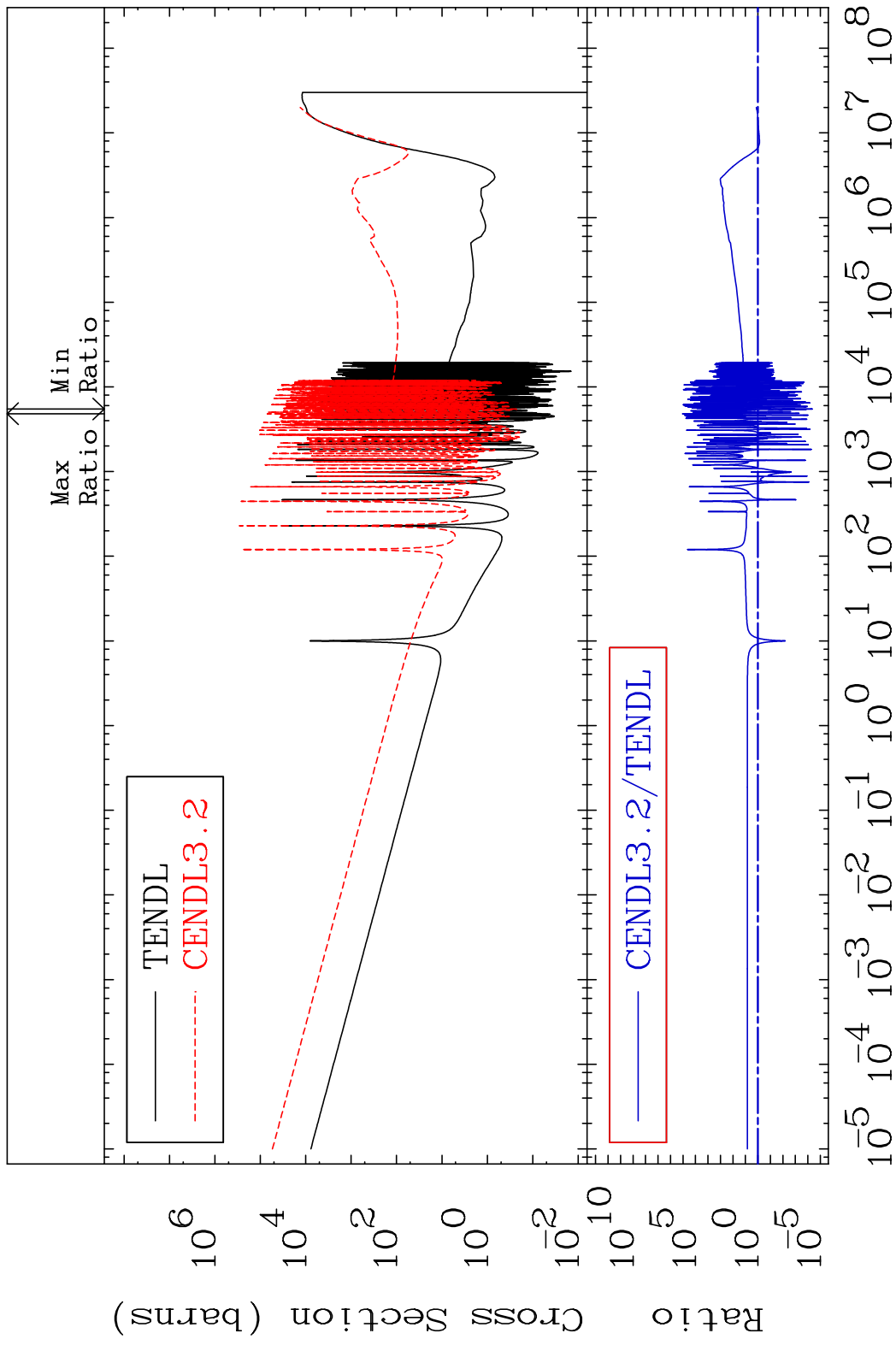
Incident Energy (eV)

44-Ru-100

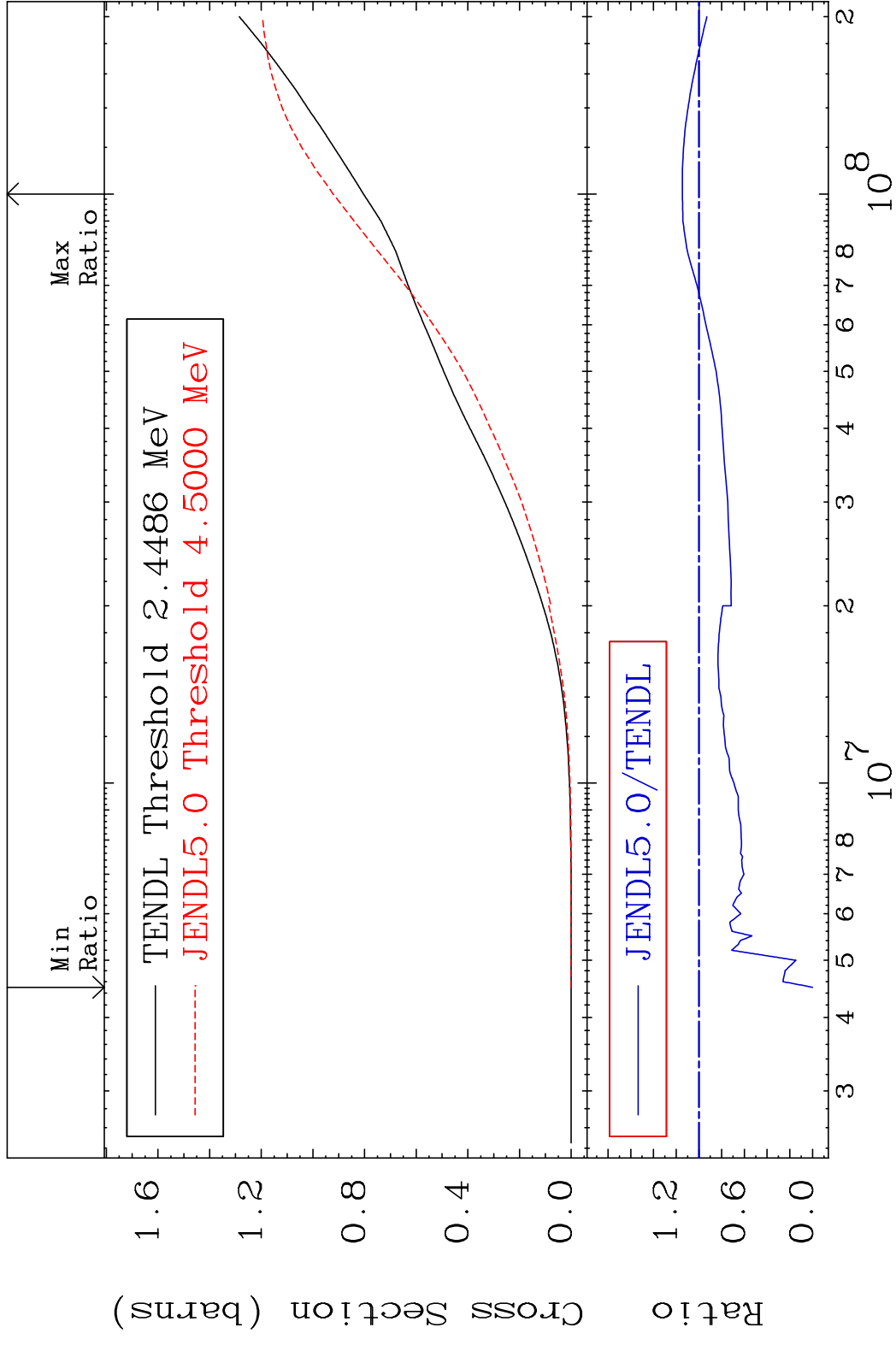
MAT 4437 Dpa inelastic (mt51-91) 44-Ru-100  
 Cross Section -37.38 To 9999. %



MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100  
 Cross Section -100.0 To 9999. %



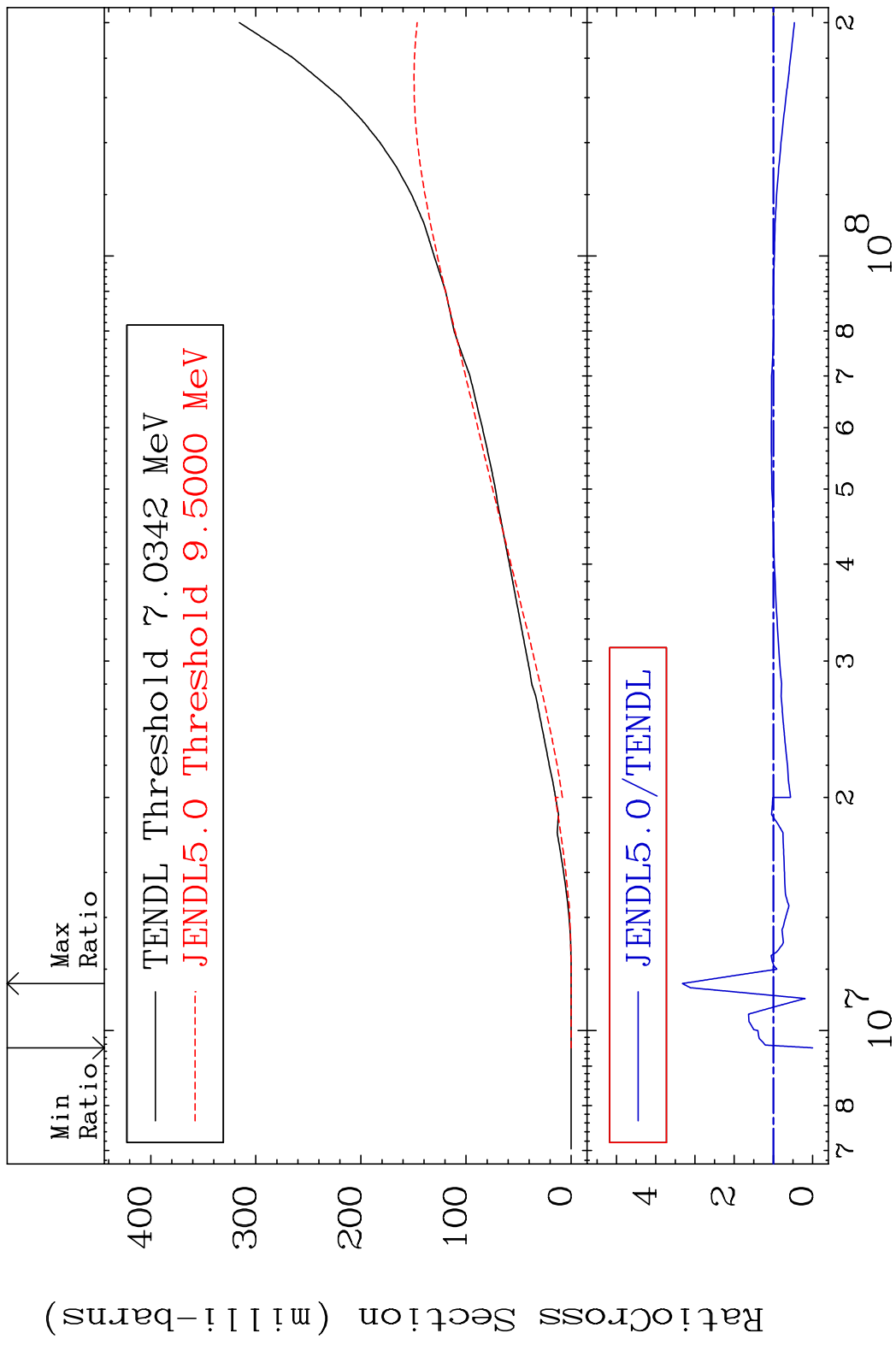
MAT 4437 Hydrogen Production 44-Ru-100  
 Cross Section -100.0 To 14.59 %



47 44-Ru-100

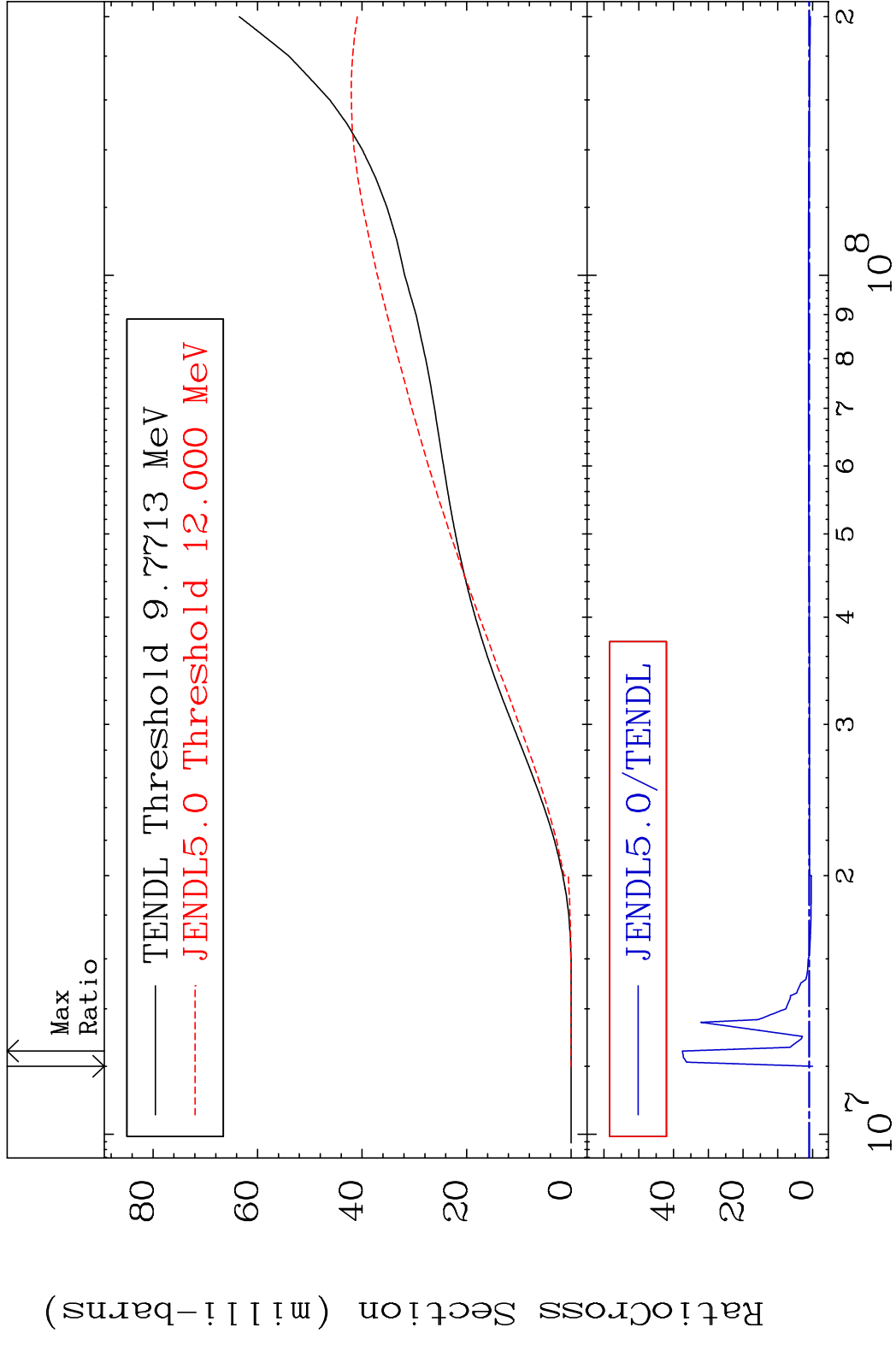


MAT 4437 Deuterium Production 44-Ru-100  
 Cross Section -100.0 To 232.2 %



48 44-Ru-100

MAT 4437 Tritium Production 44-Ru-100  
 Cross Section -100.0 To 3646. %



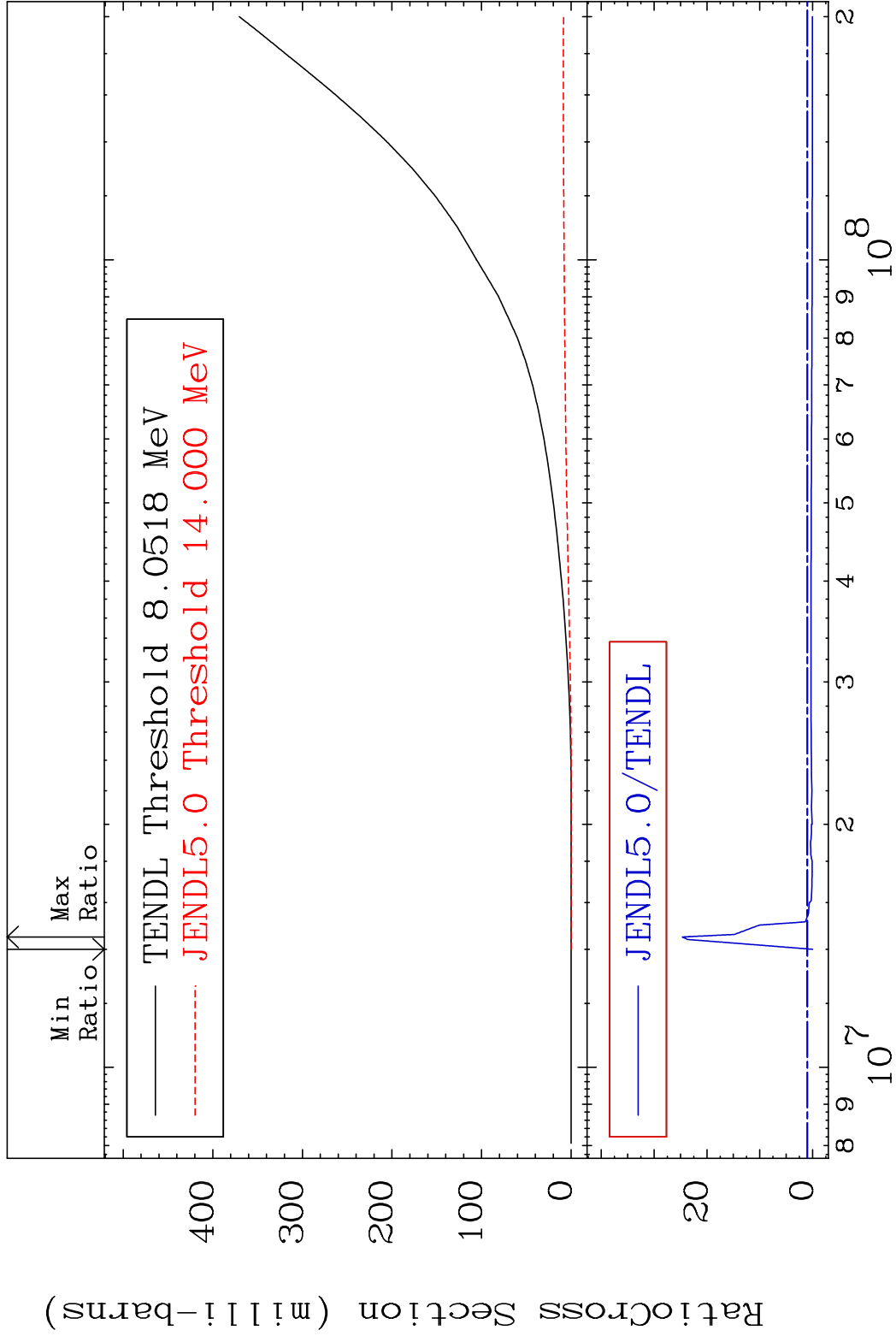
49 44-Ru-100

MAT 4437

He-3 Production

44-Ru-100

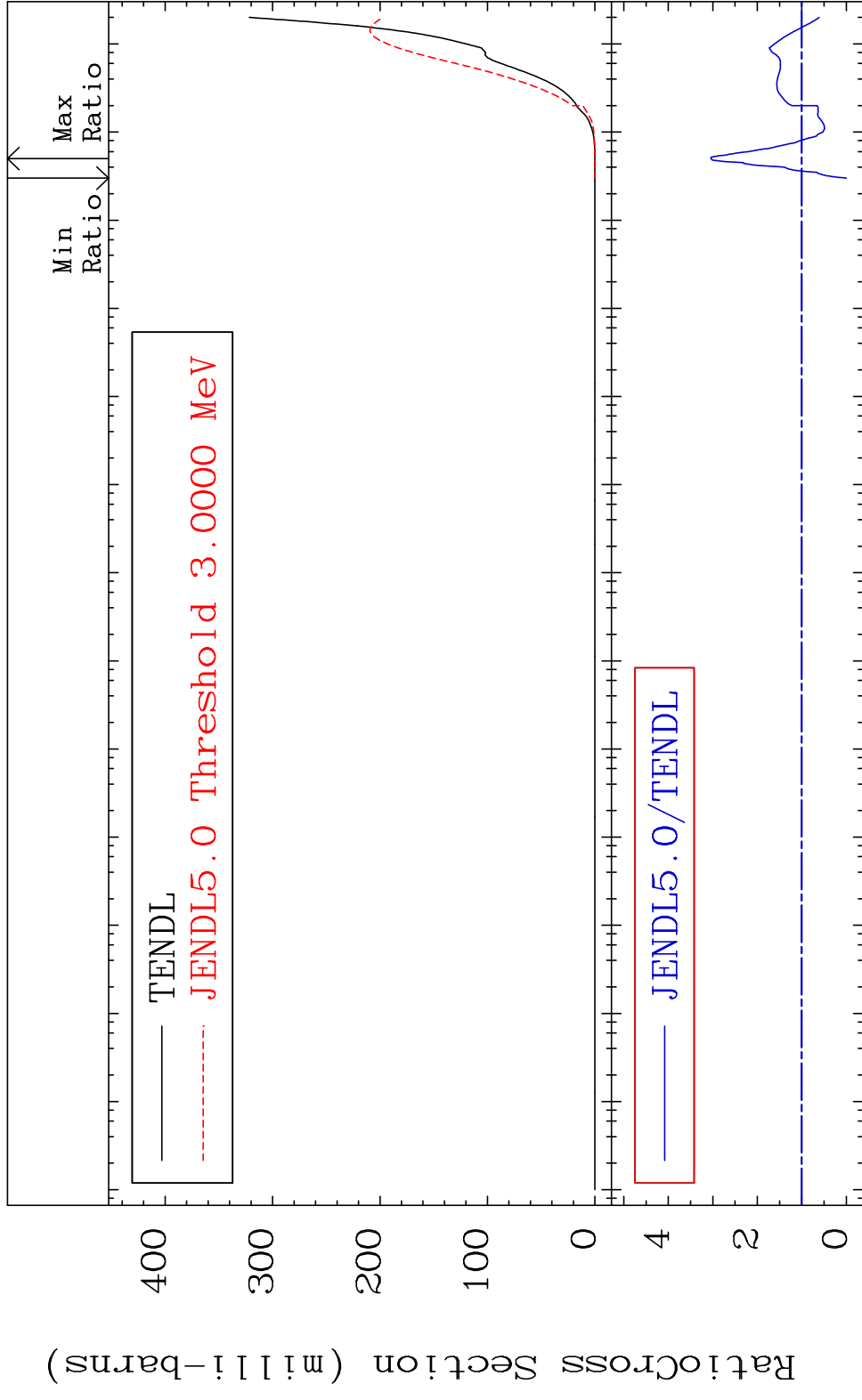
Cross Section -100.0 To 2365. %



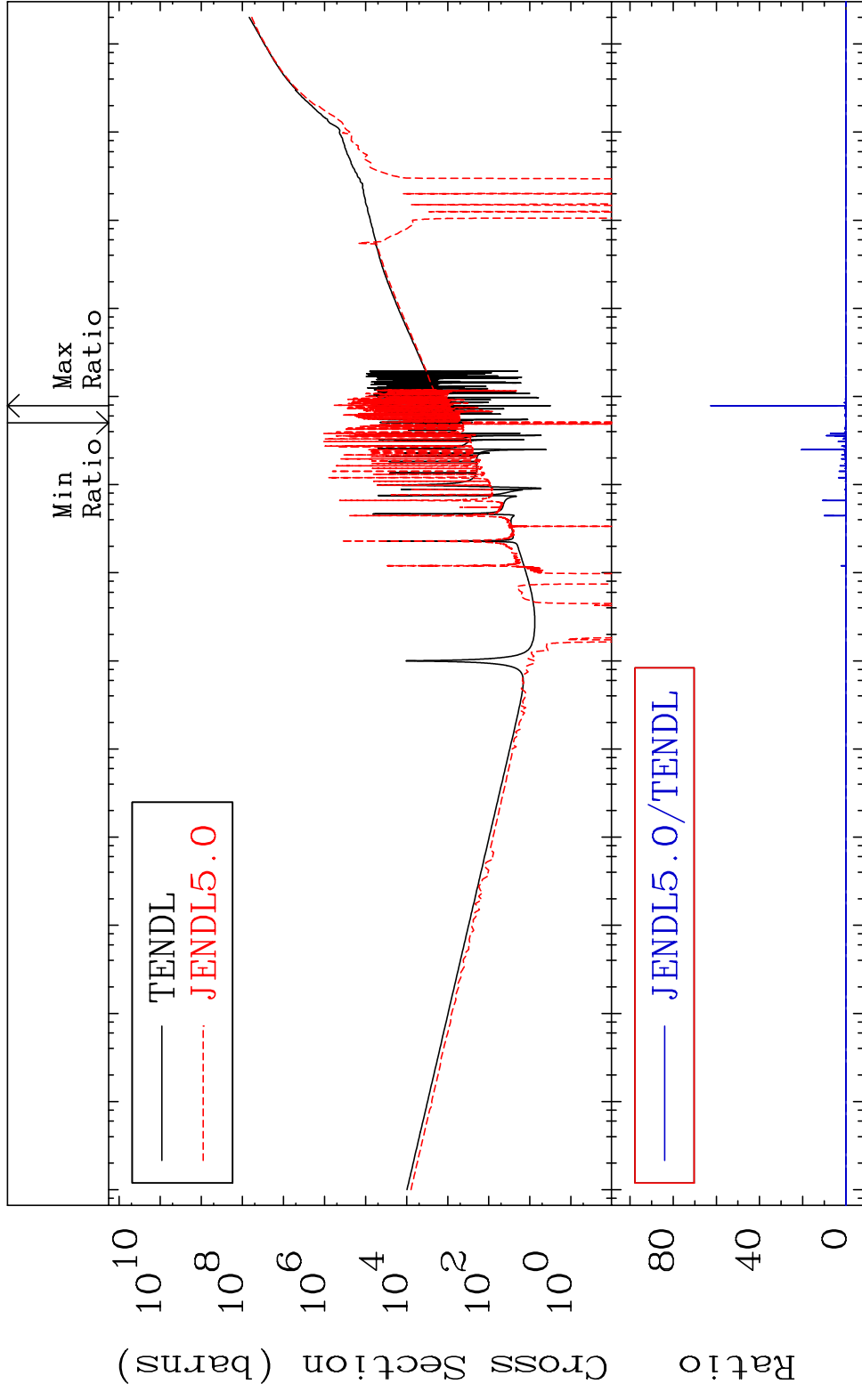
50

Incident Energy (eV)

44-Ru-100

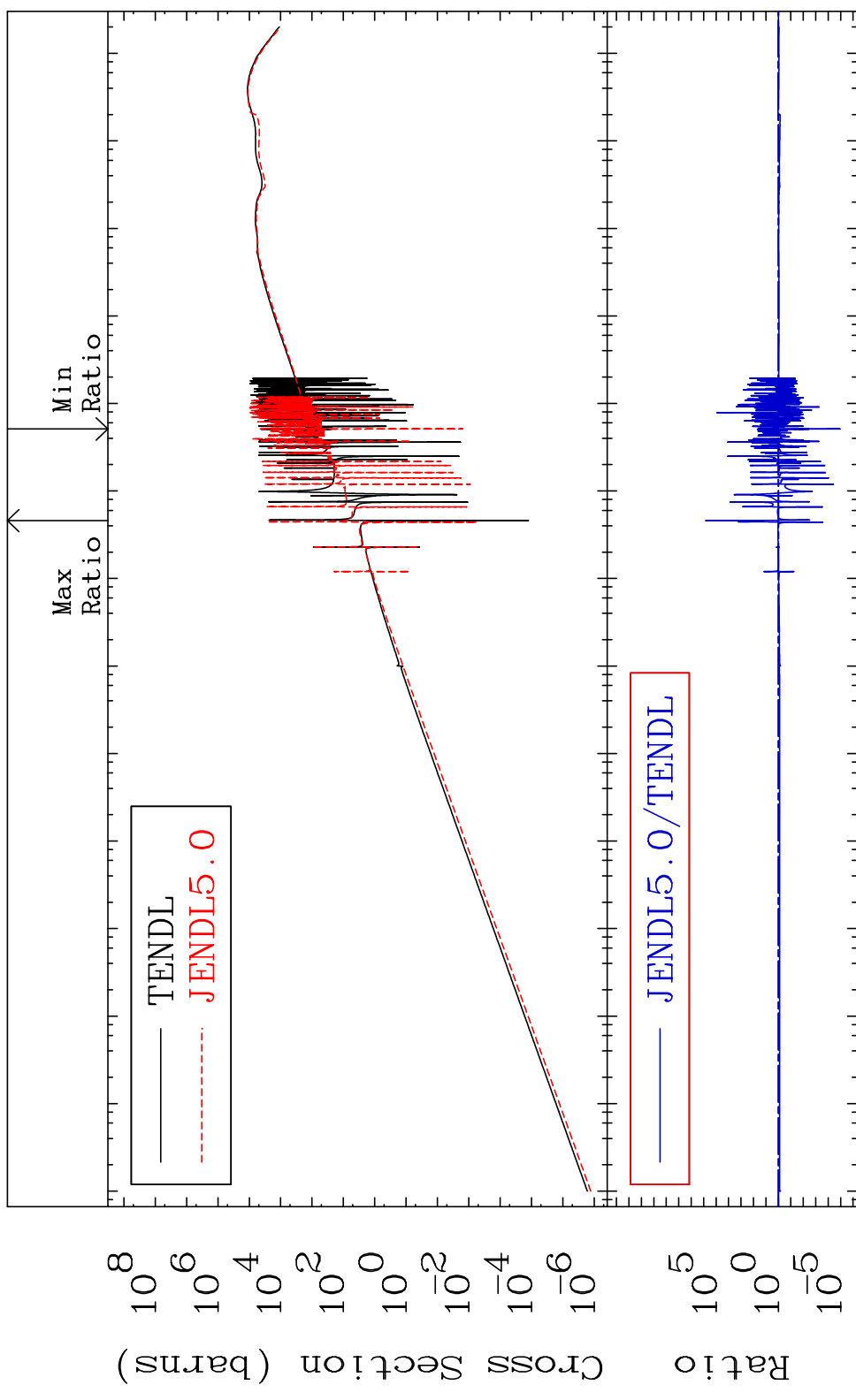


MAT 4437 Kerma total (eV-barns) 44-Ru-100  
 Cross Section -9999. To 9999. %

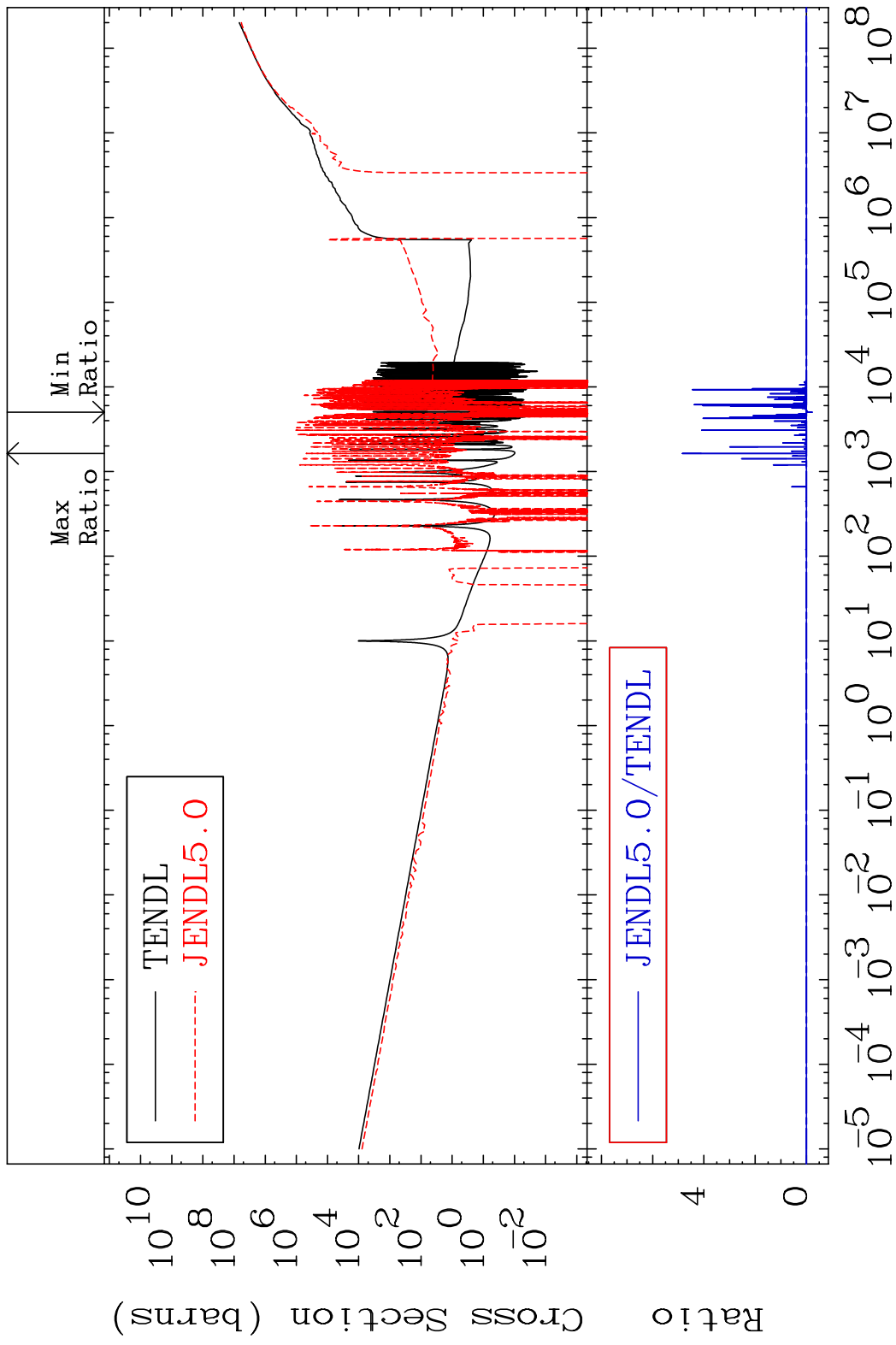


MAT 4437

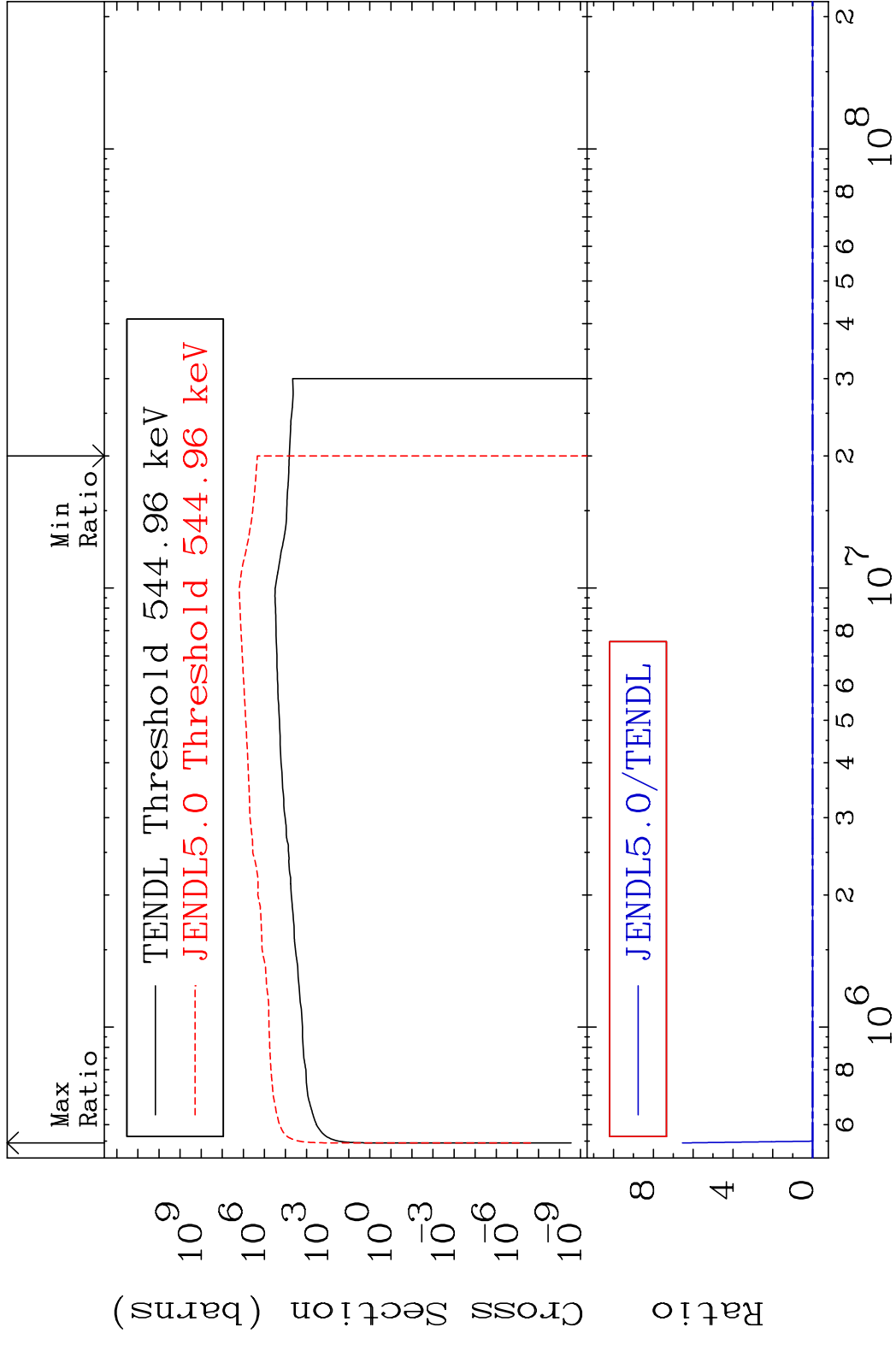
Kerma elastic Cross Section -100.0 To 9999. %  
44-Ru-100



MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100  
 Cross Section -9999. To 9999. %

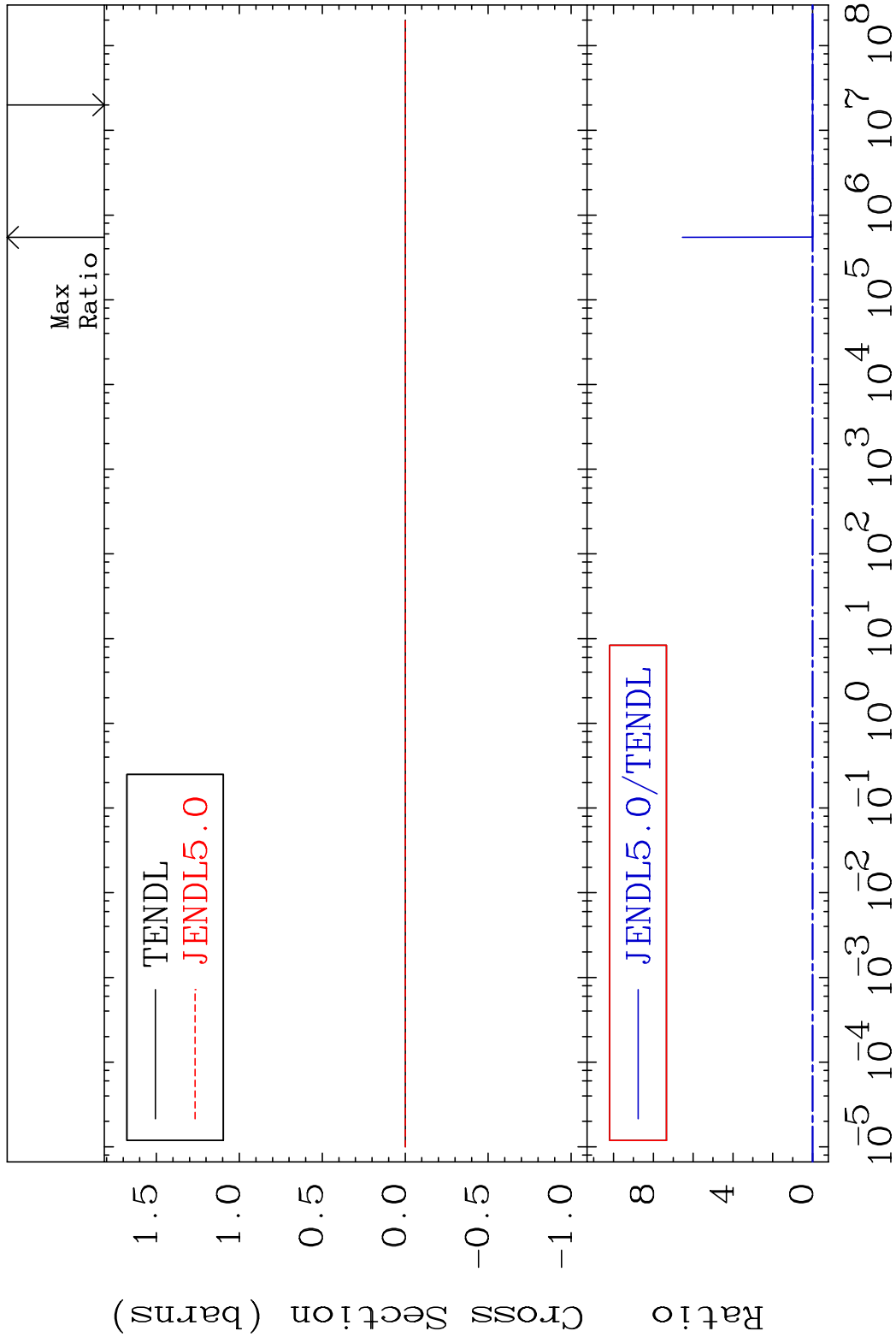


MAT 4437 Kerma inelastic (mt51-91) 44-Ru-100  
 Cross Section -100.0 To 9999. %



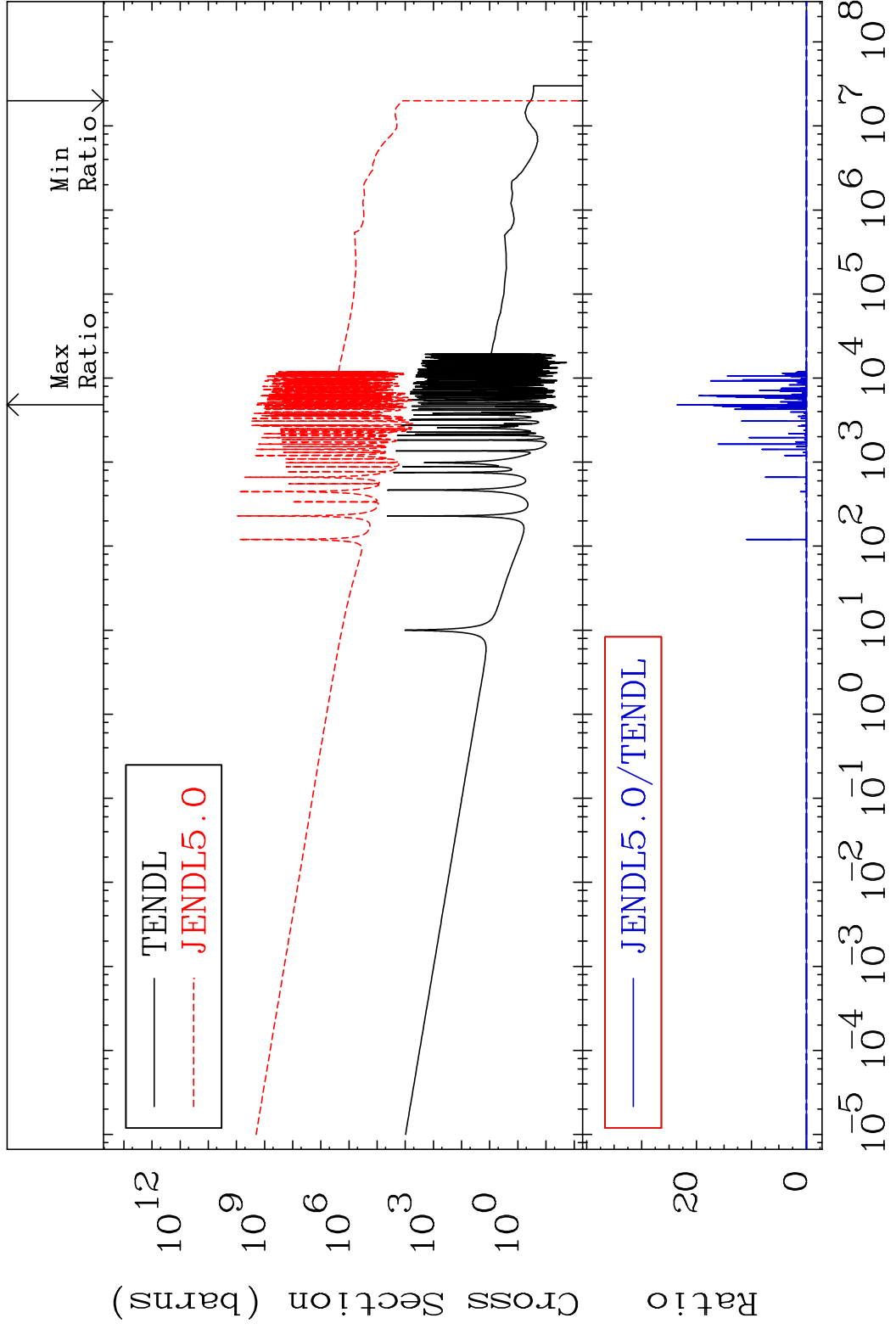


MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100  
 Cross Section -100.0 To 9999. %



MAT 4437

Kerma capture (mt102) 44-Ru-100  
Cross Section -100.0 To 9999. %

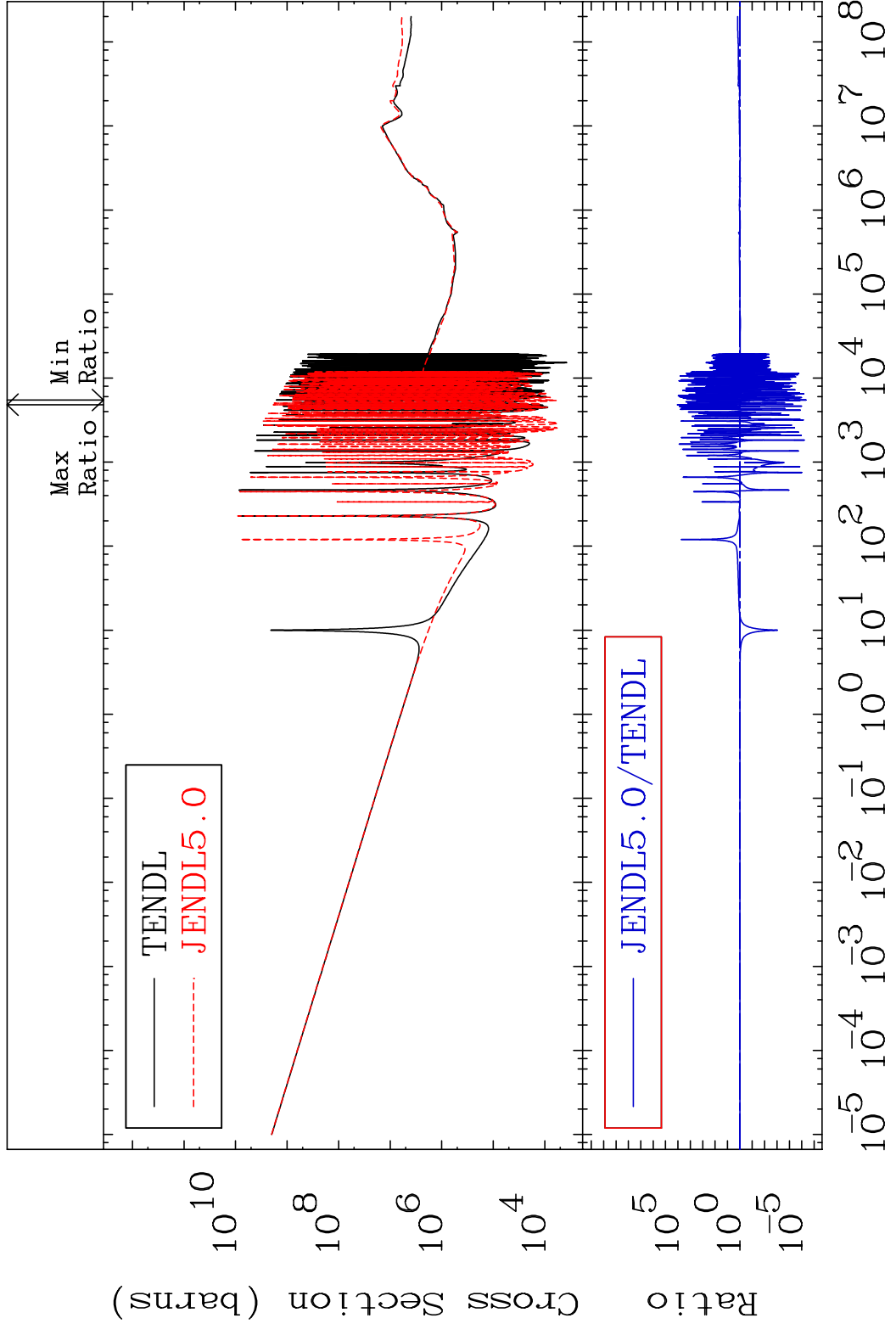


57

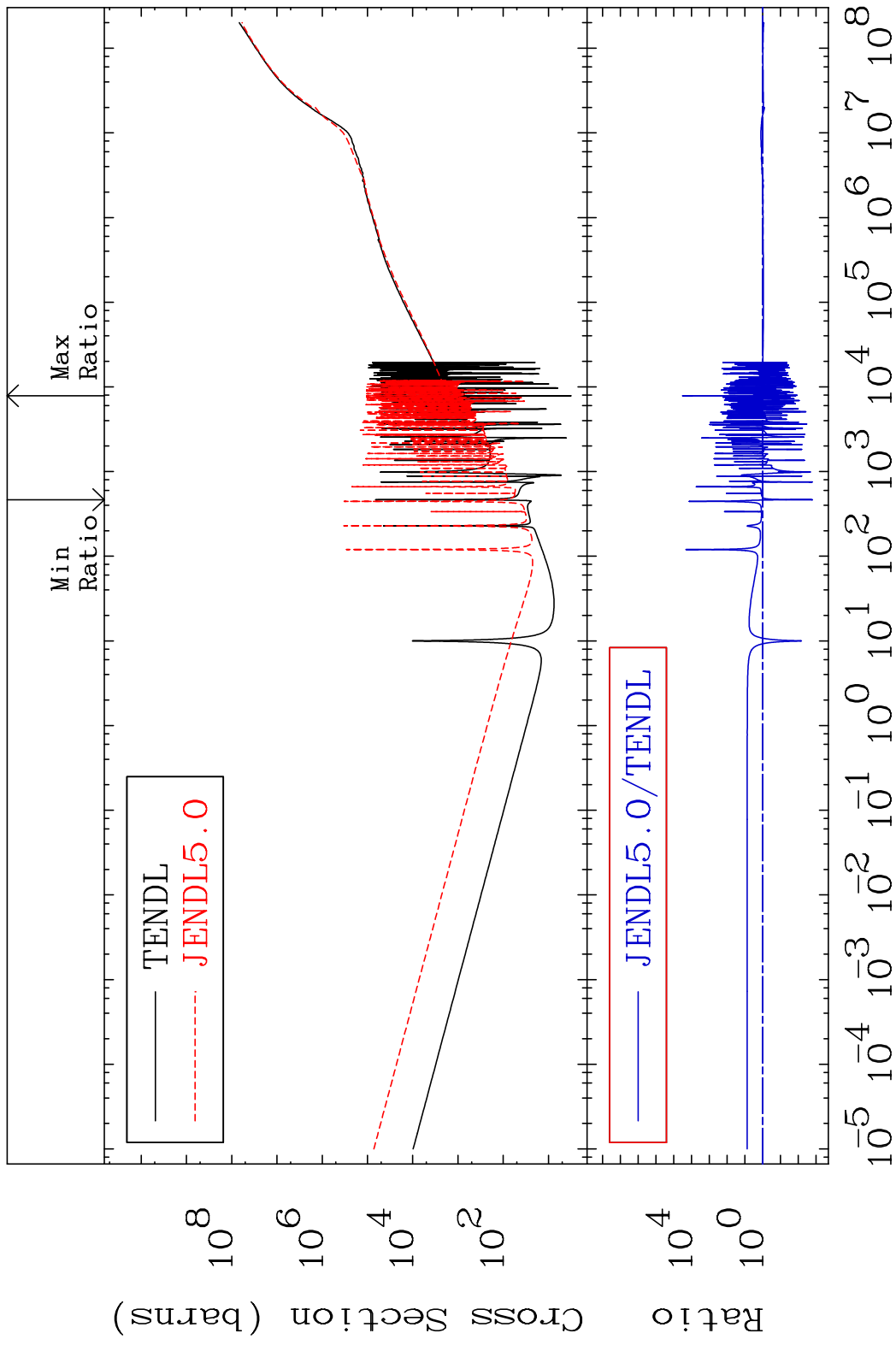
Incident Energy (eV) 44-Ru-100

MAT 4437

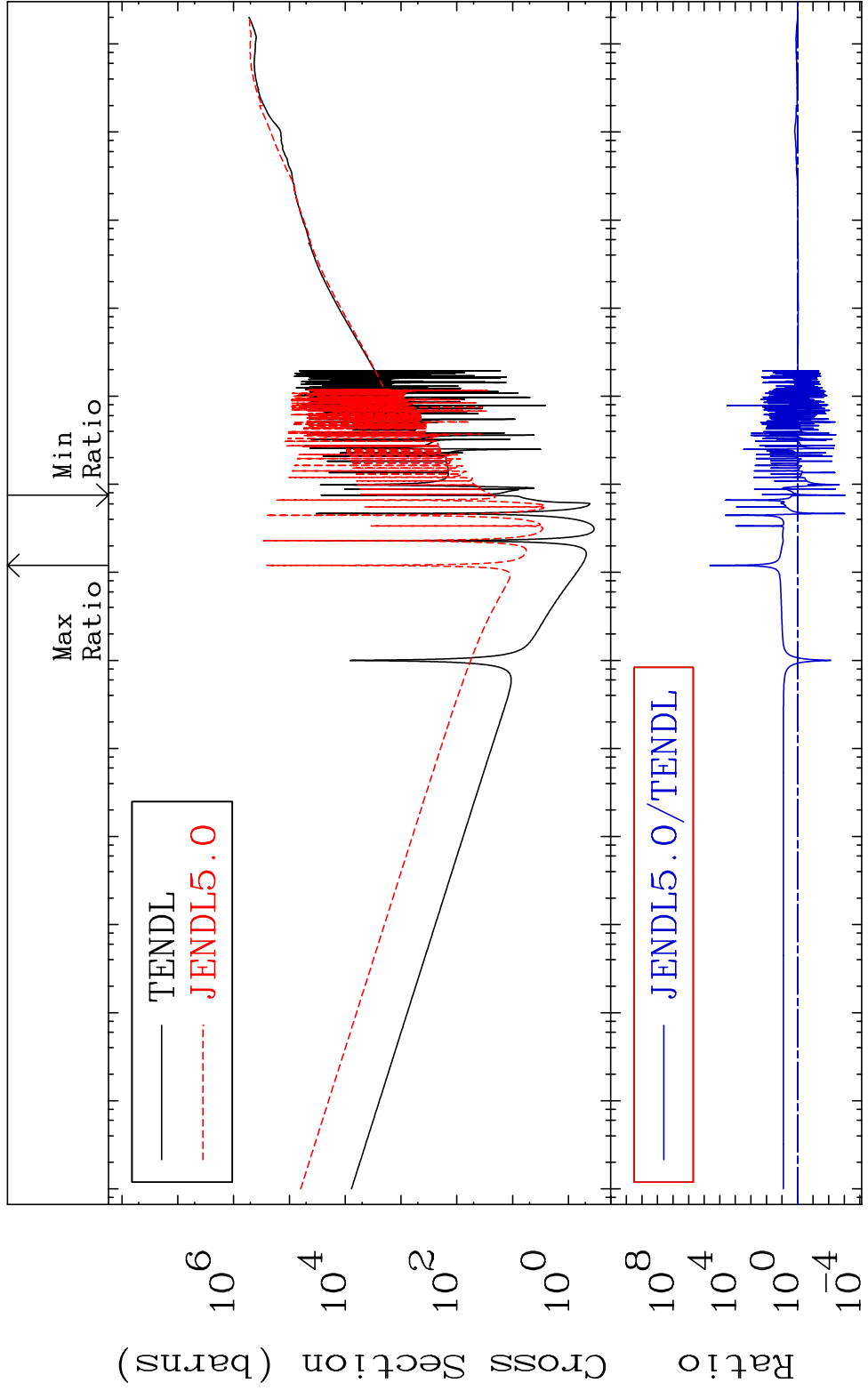
Total photon (eV-barns) 44-Ru-100  
Cross Section -100.0 To 9999. %



MAT 4437 Total kinematic kerma (high limit) 44-Ru-100  
 Cross Section -99.84 To 9999. %



MAT 4437      Dpa total (eV-barns)      44-Ru-100  
Cross Section      -99.91 To 9999. %



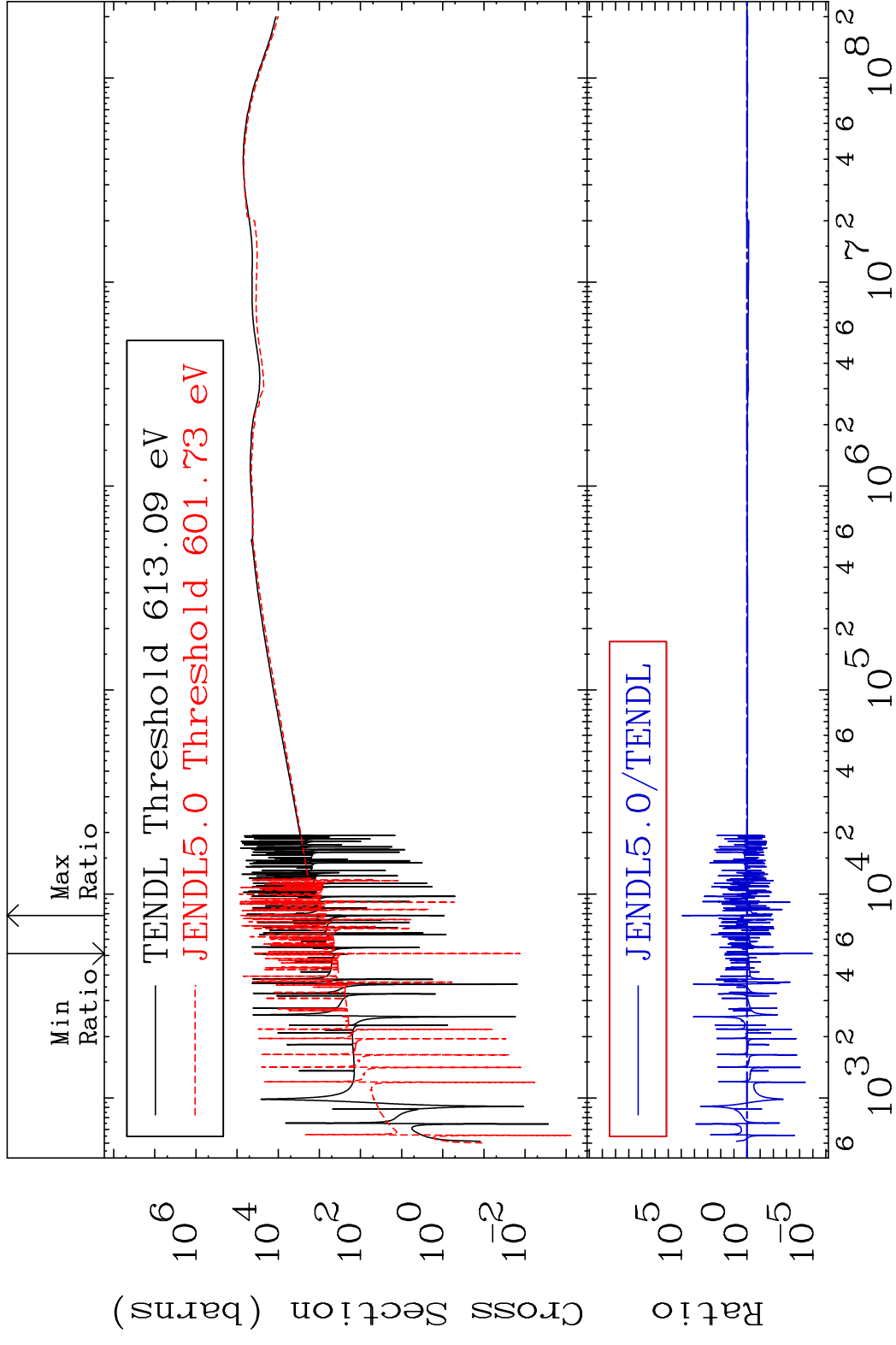
60      Incident Energy (eV)      44-Ru-100

MAT 4437

Dpa elastic (mt2)

44-Ru-100

Cross Section -100.0 To 9999. %

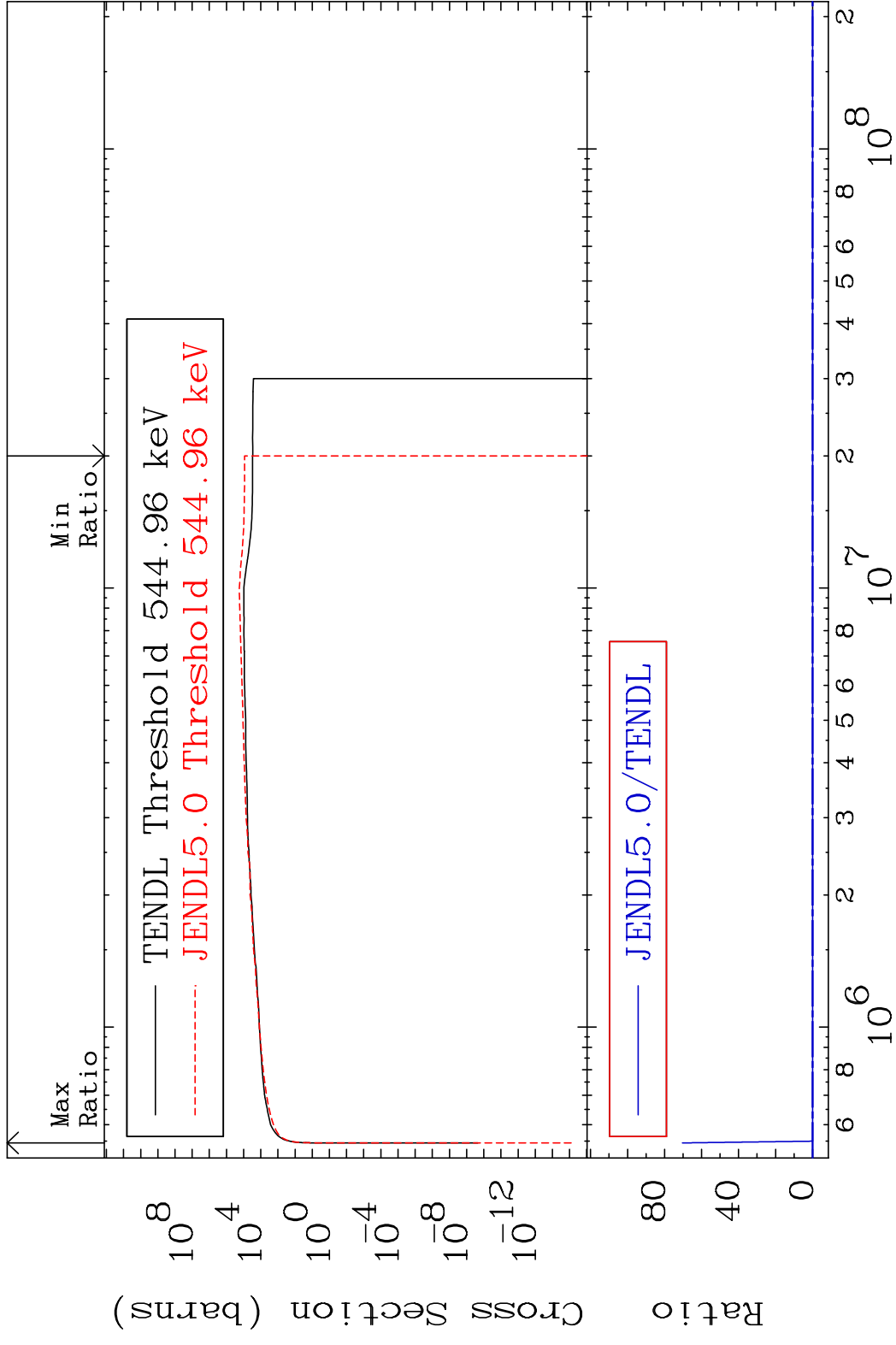


61

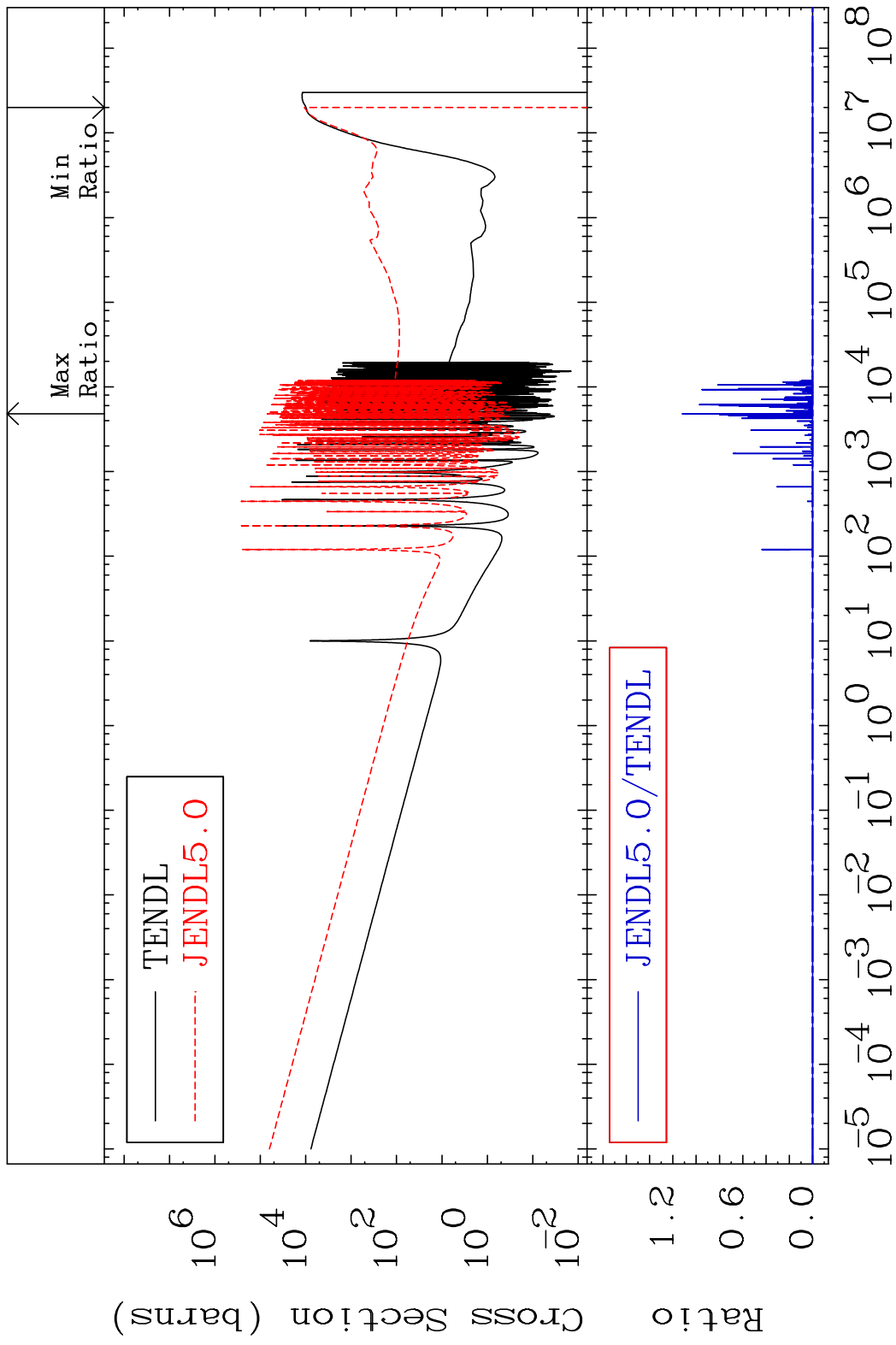
Incident Energy (eV)

44-Ru-100

MAT 4437 Dpa inelastic (mt51-91) 44-Ru-100  
 Cross Section -100.0 To 9999. %

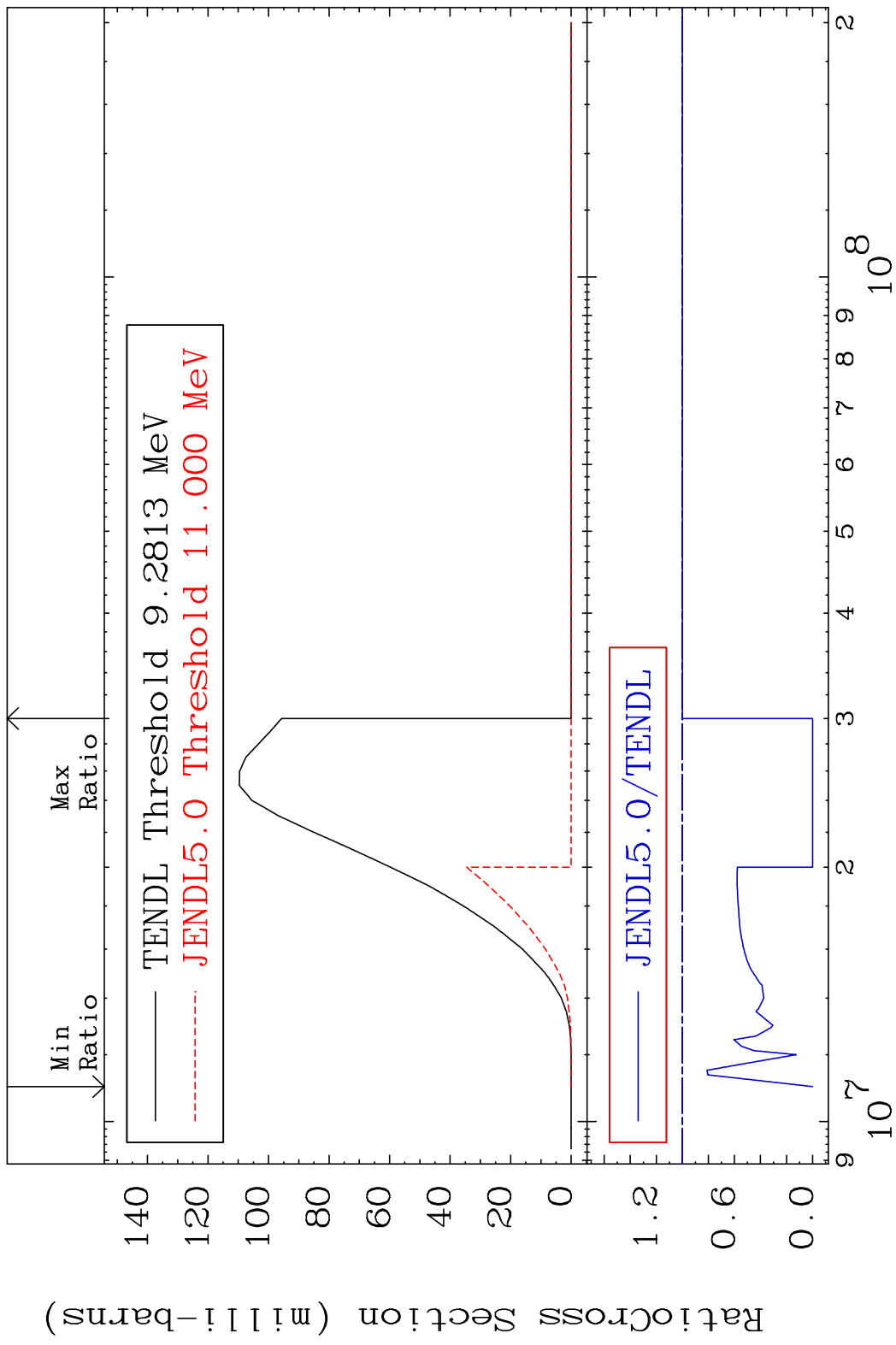


MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100  
 Cross Section -100.0 To 9999. %



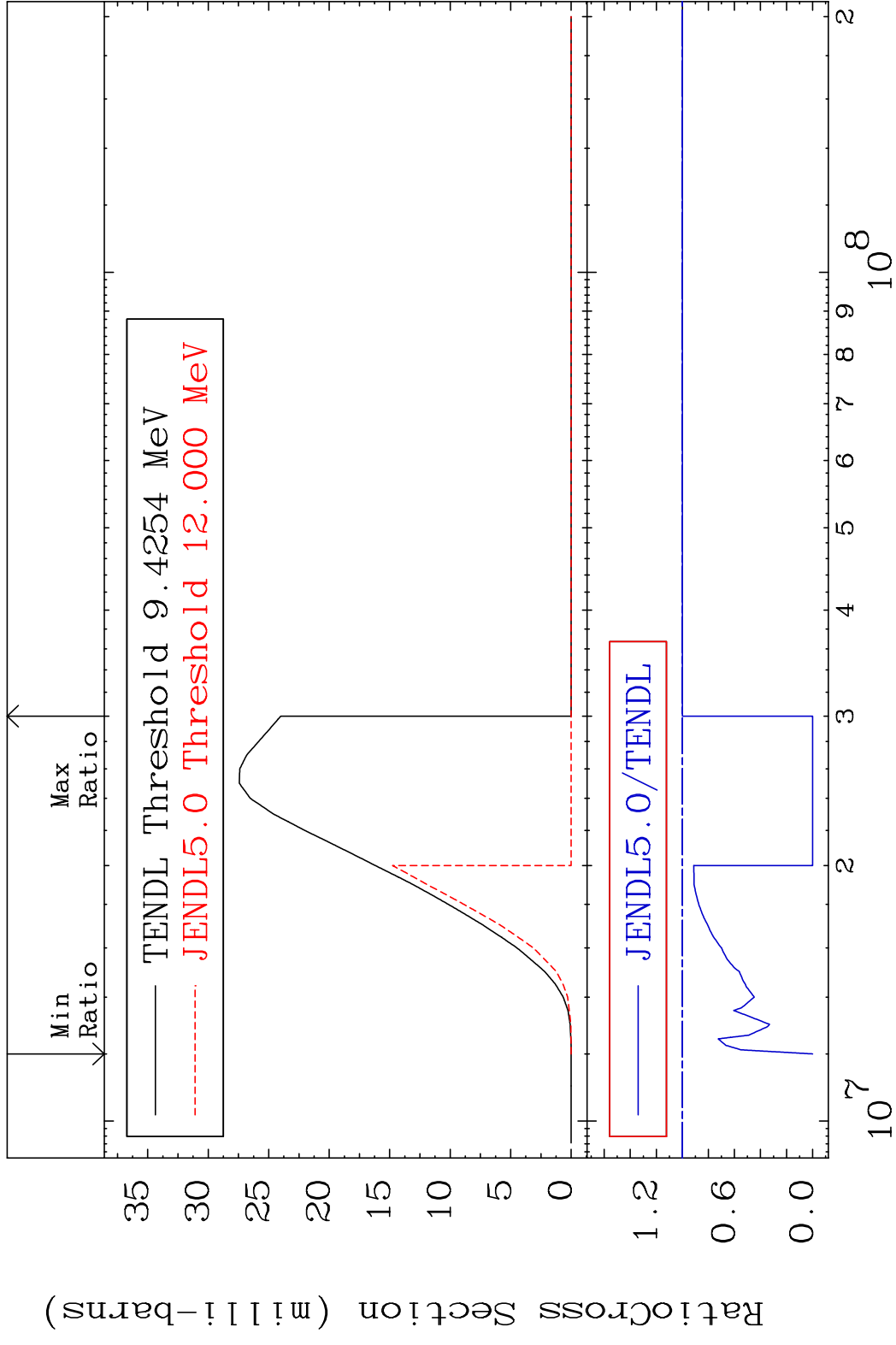


MAT 4437 (n, n') p:43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section 100.000 %  
 0.000 %



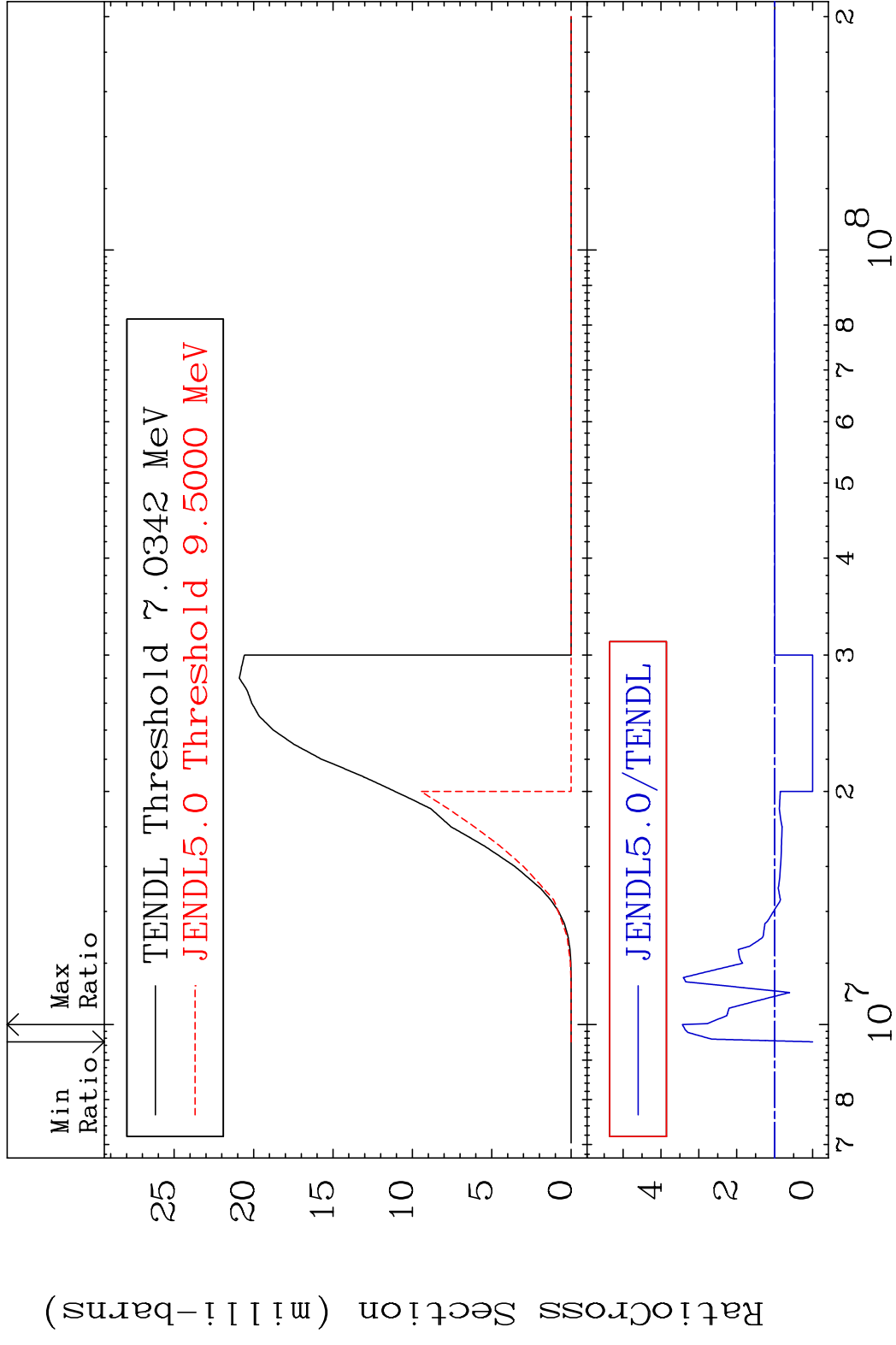
64 Incident Energy (eV) 44-Ru-100

MAT 4437 (n, n') p:43-Tc-99m2 44-Ru-100  
 Radionuclide Production Cross Section 180.0 dth 0.000 %

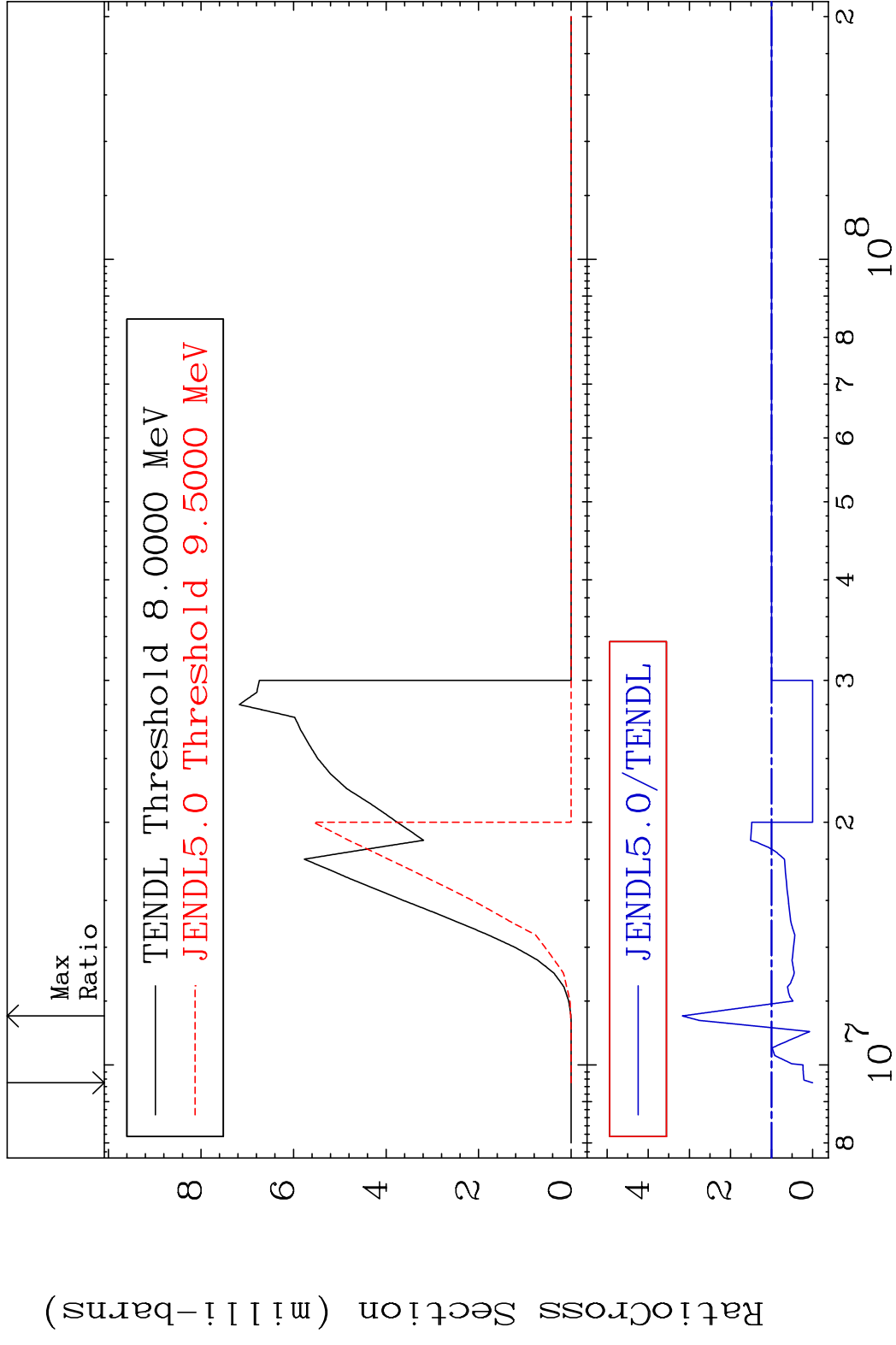


65 44-Ru-100

MAT 4437 (n,d):43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section 180.0 dth 243.5 %



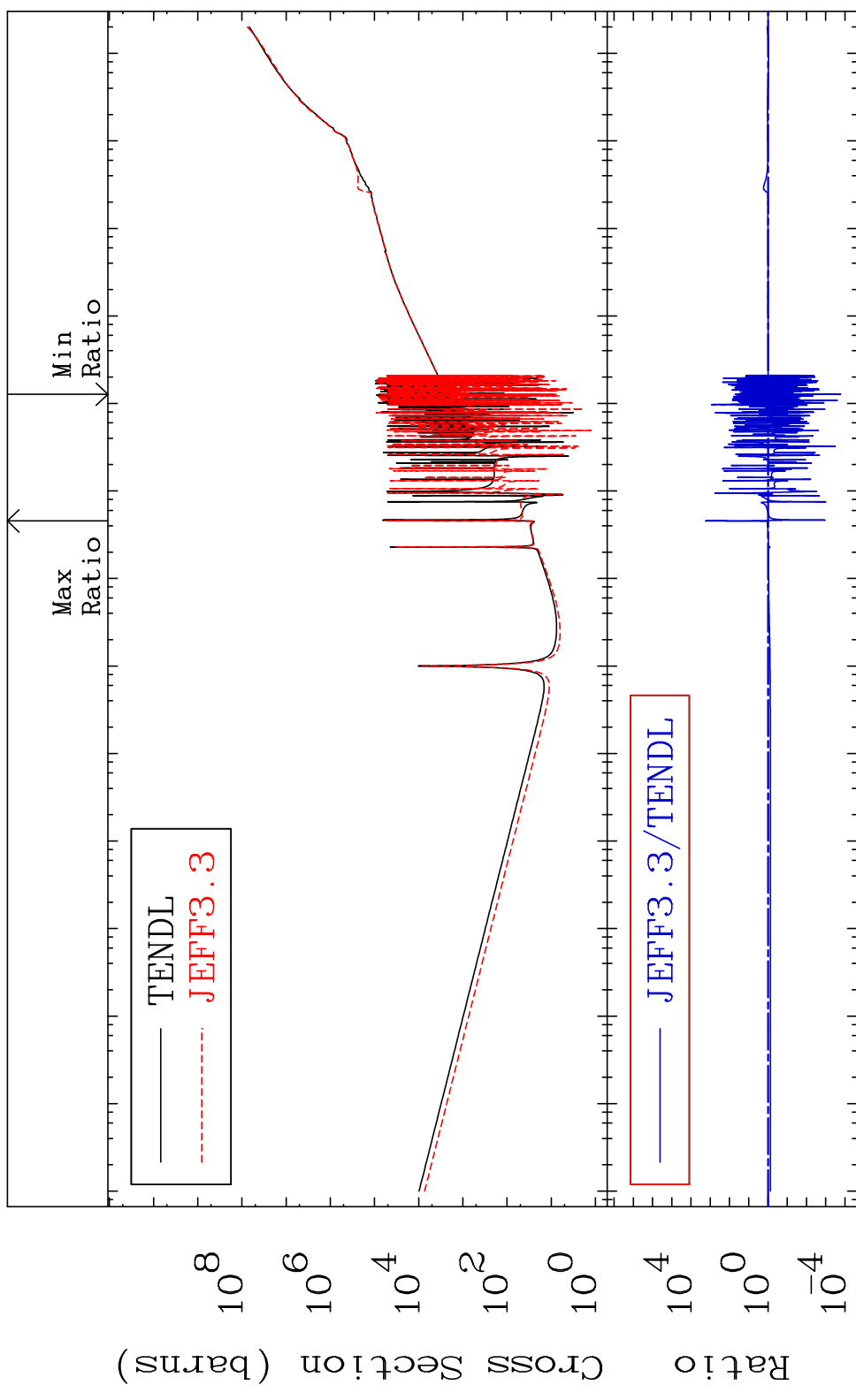
MAT 4437 (n,d):43-Tc-99m2 44-Ru-100  
 Radionuclide Production Cross Section 180.0 mb 217.0 %



67 Incident Energy (eV) 44-Ru-100

MAT 4437

Kerma total (eV-barns) 44-Ru-100  
Cross Section -99.98 To 9999. %

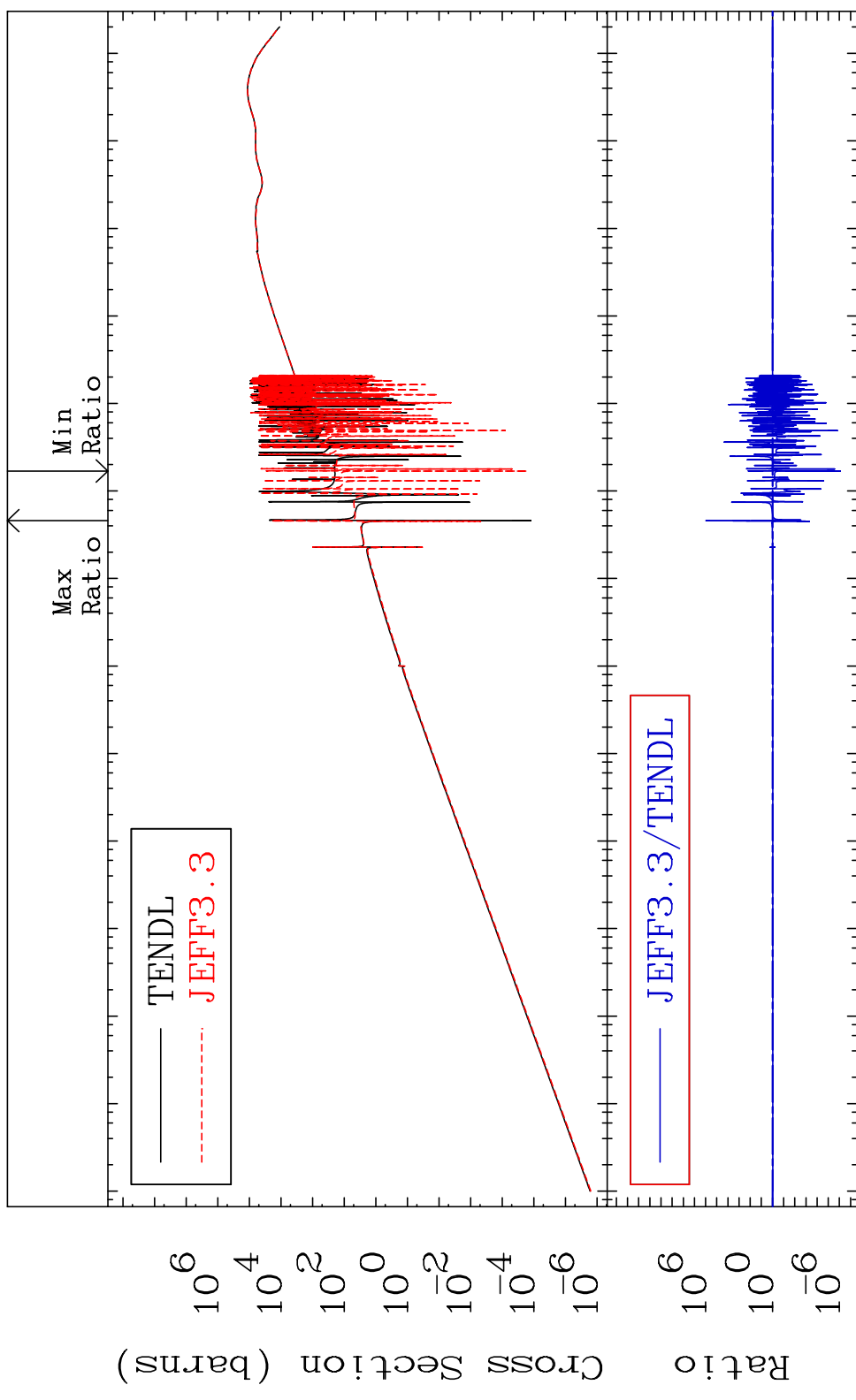


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

Incident Energy (eV)

MAT 4437

Kerma elastic Cross Section -100.0 To 9999. %  
44-Ru-100

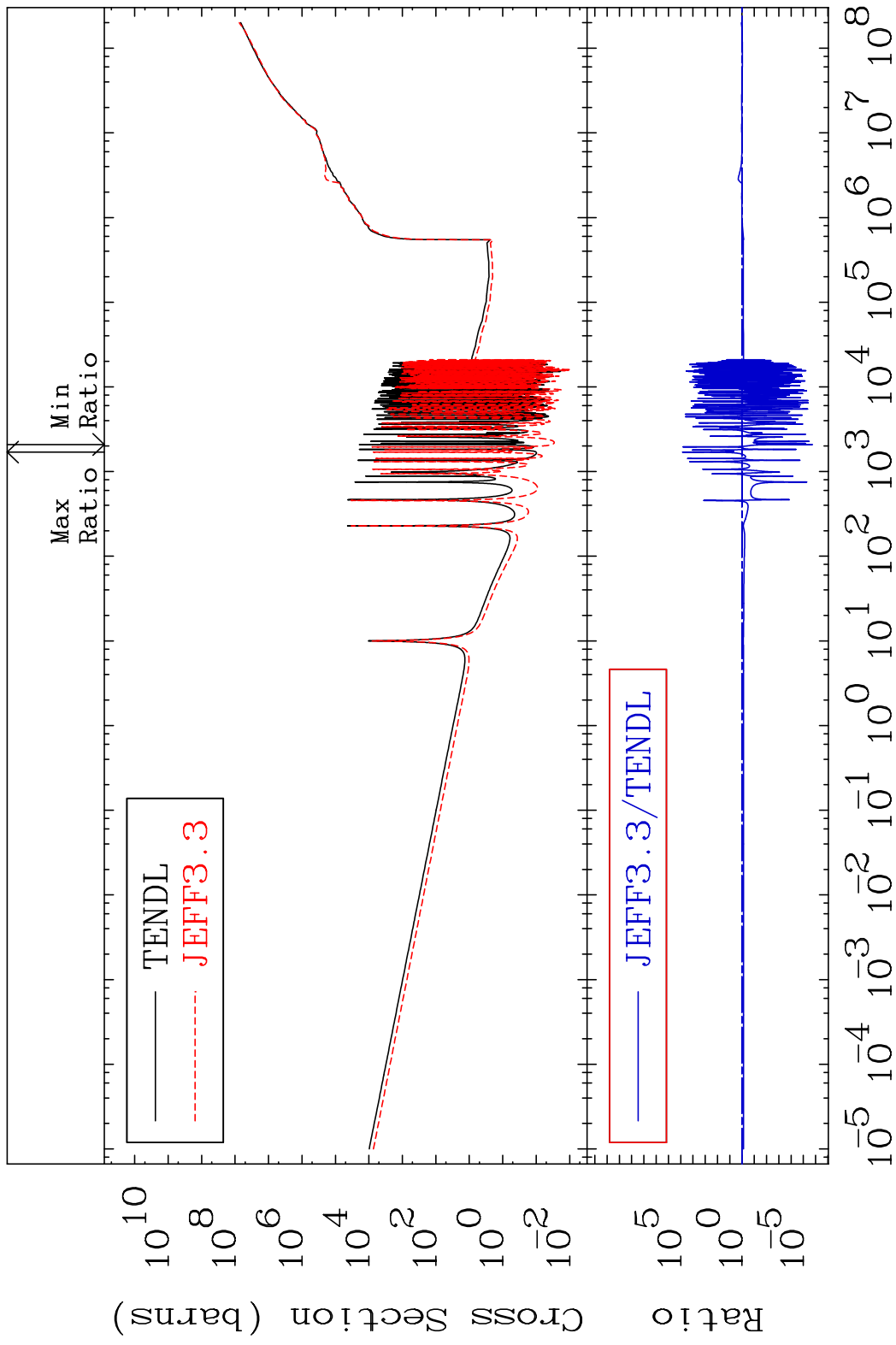


69

Incident Energy (eV)

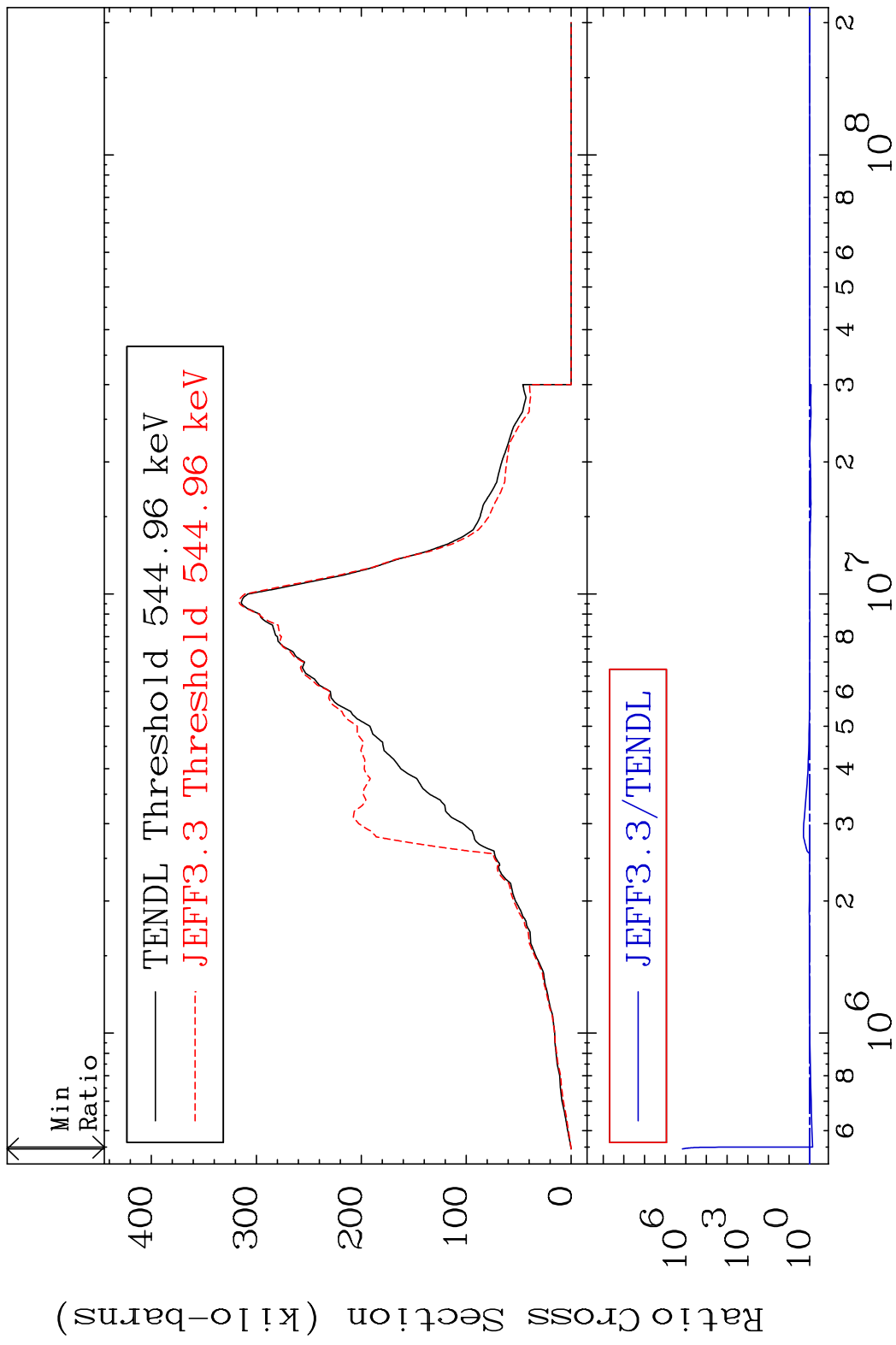
44-Ru-100

MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100  
 Cross Section -100.0 To 9999. %



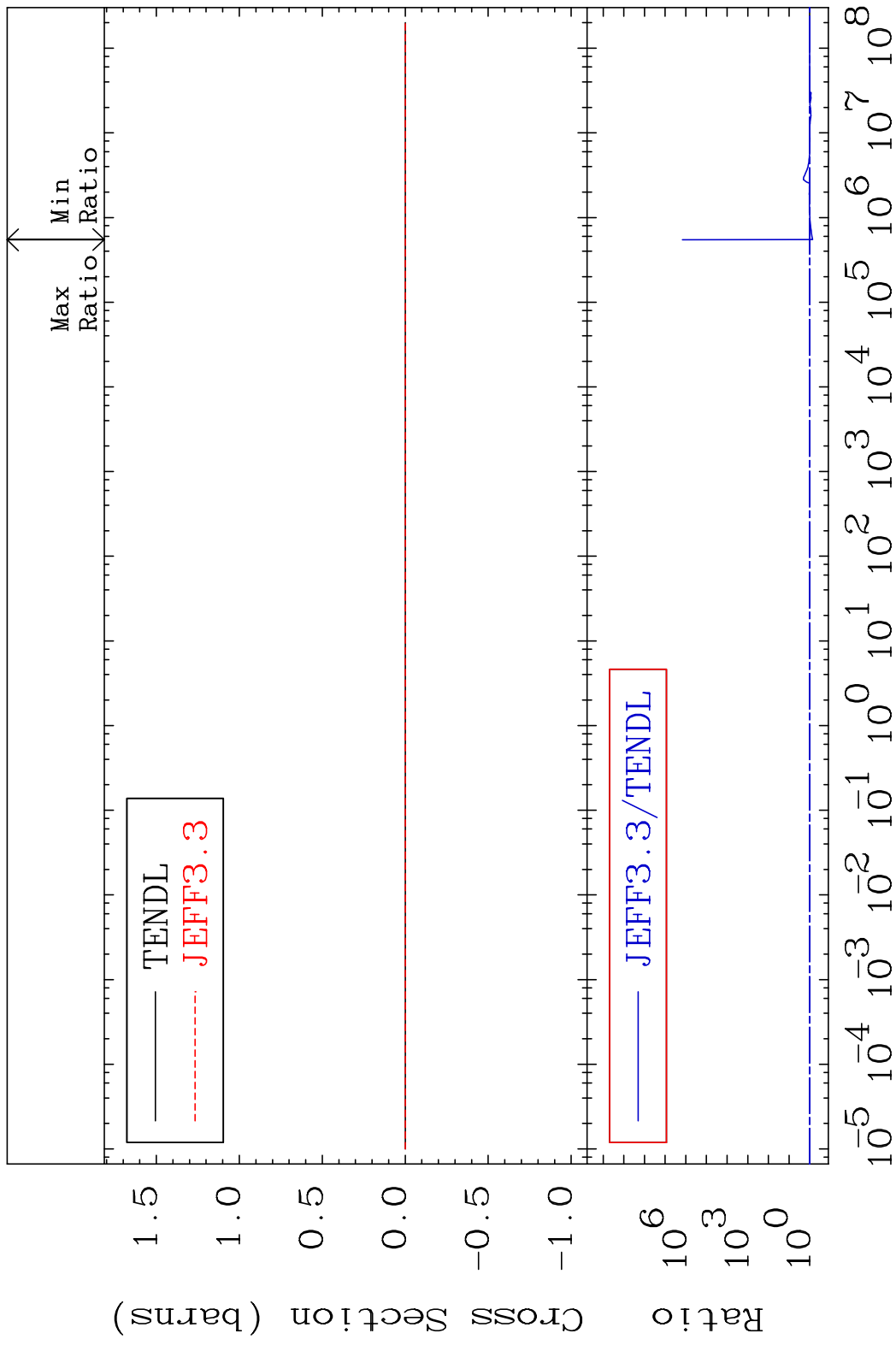
70 Incident Energy (eV) 44-Ru-100

MAT 4437 Kerma inelastic (mt51-91) 44-Ru-100  
 Cross Section -26.96 To 9999. %



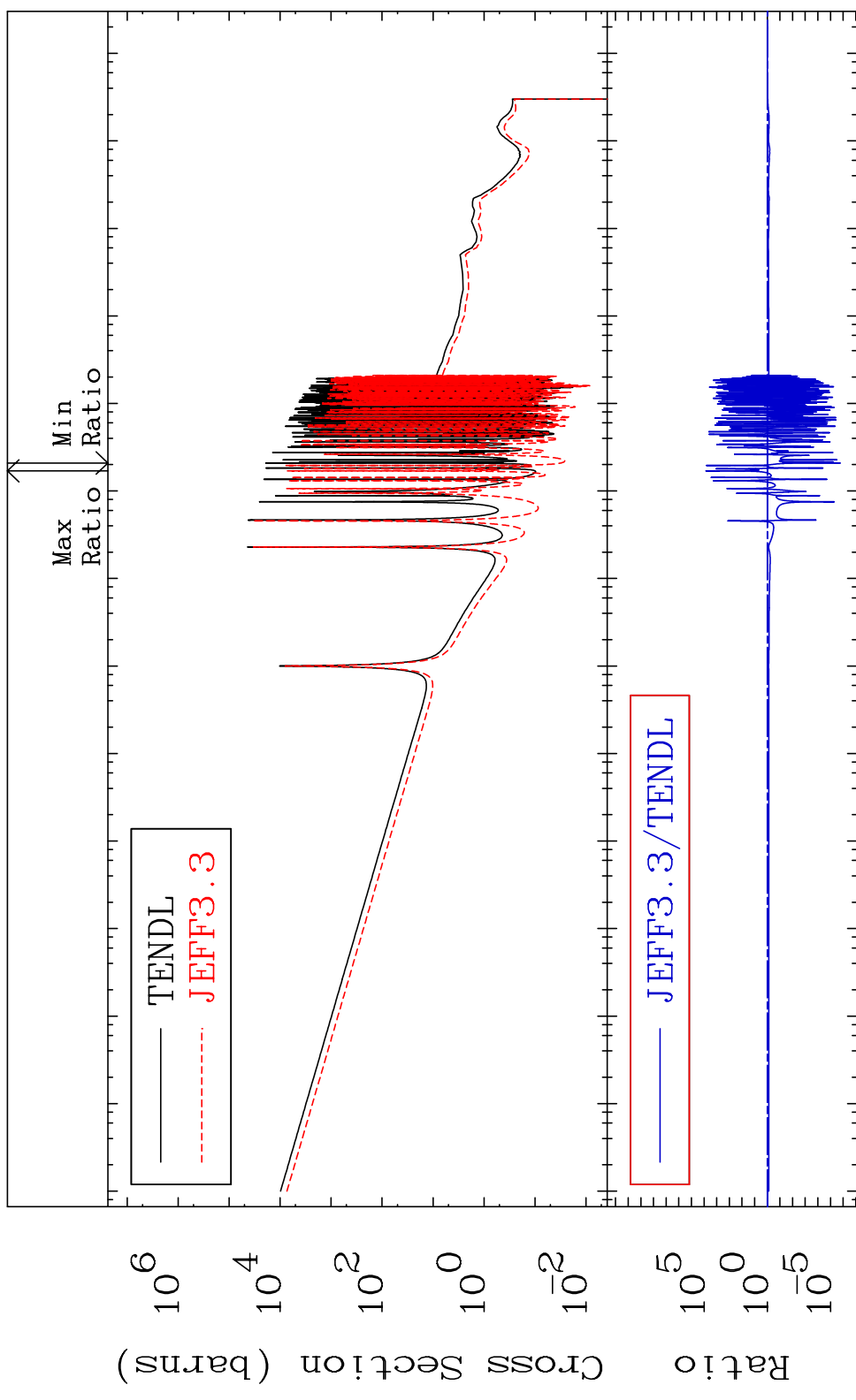


MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100  
 Cross Section -26.96 To 9999. %



MAT 4437

Kerma capture (mt102) 44-Ru-100  
Cross Section -100.0 To 9999. %

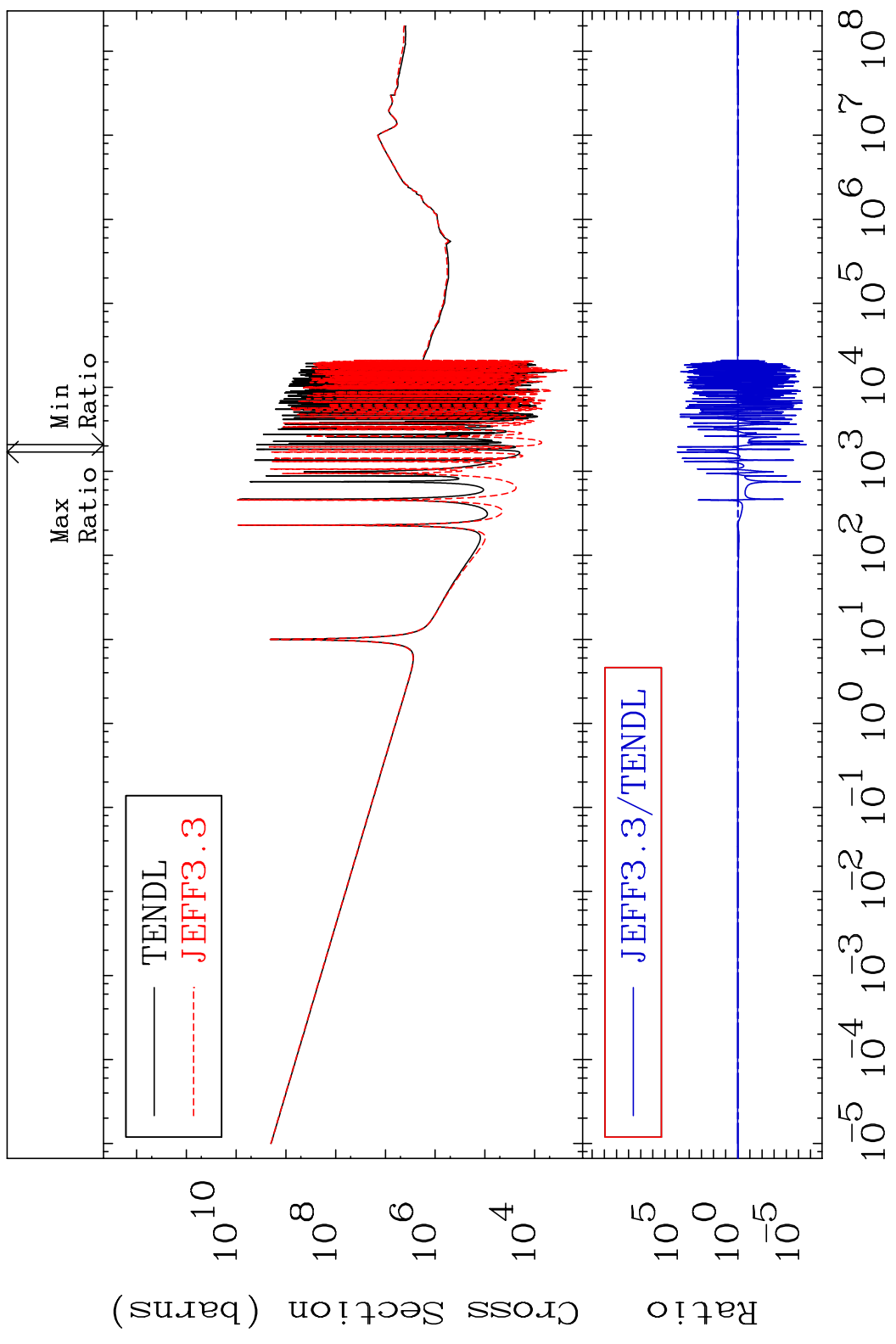


73

Incident Energy (eV) 44-Ru-100

MAT 4437

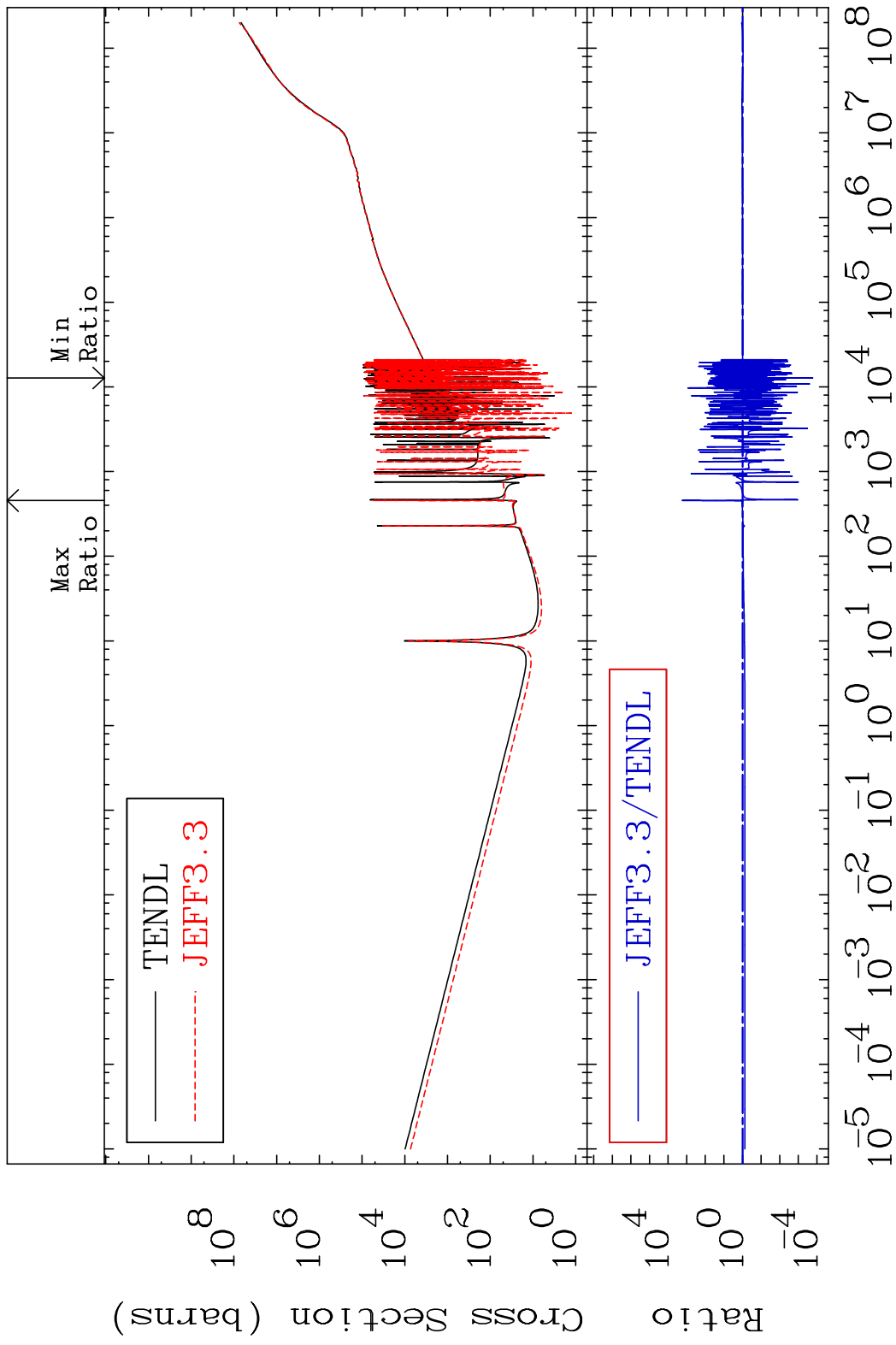
Total photon (eV-barns) 44-Ru-100  
Cross Section -100.0 To 9999. %



74

Incident Energy (eV) 44-Ru-100

MAT 4437 Total kinematic kerma (high limit) 44-Ru-100  
 Cross Section -99.98 To 9999. %

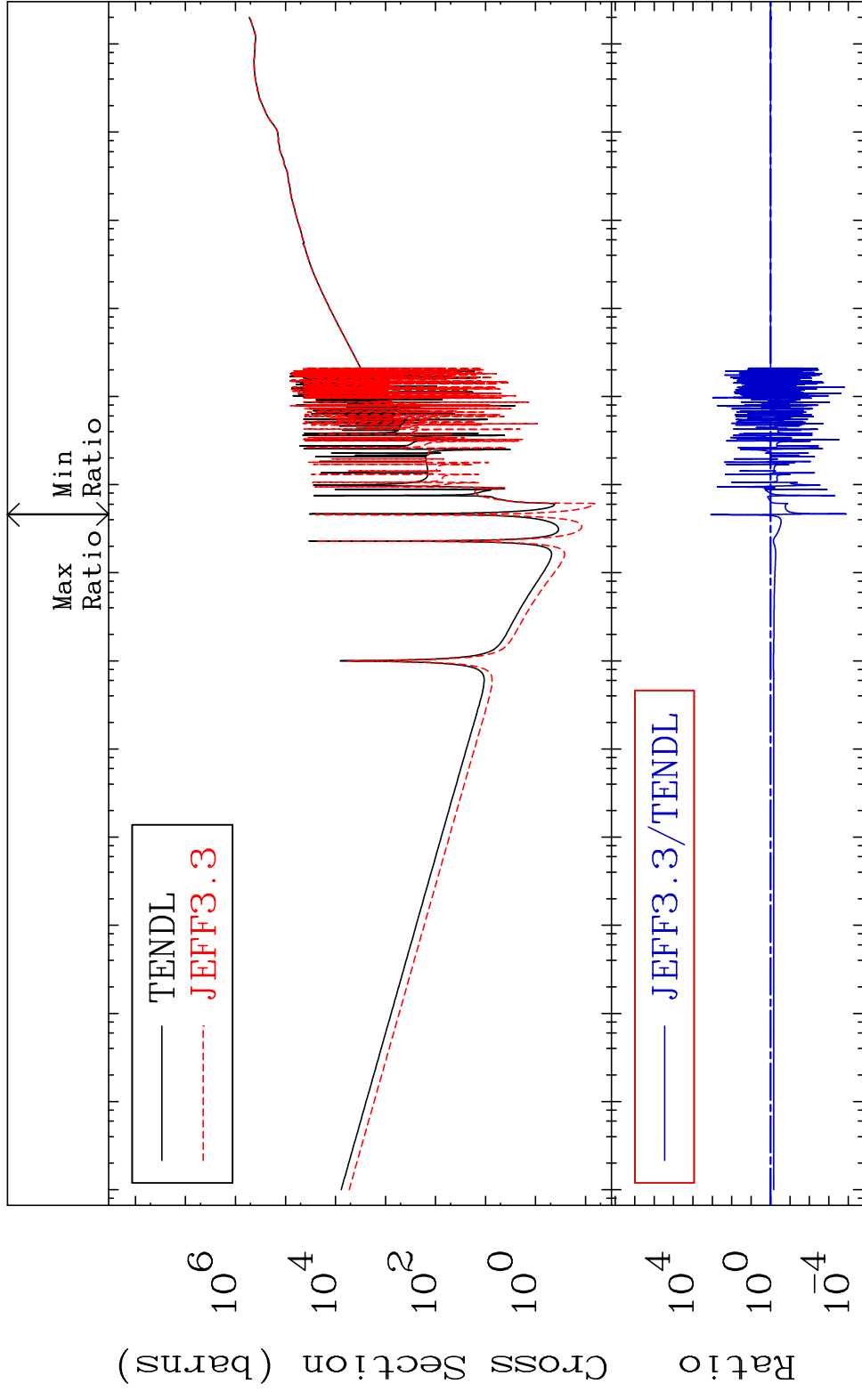


MAT 4437

Dpa total (eV-barns)

44-Ru-100

Cross Section -99.99 To 9999. %



76

Incident Energy (eV)

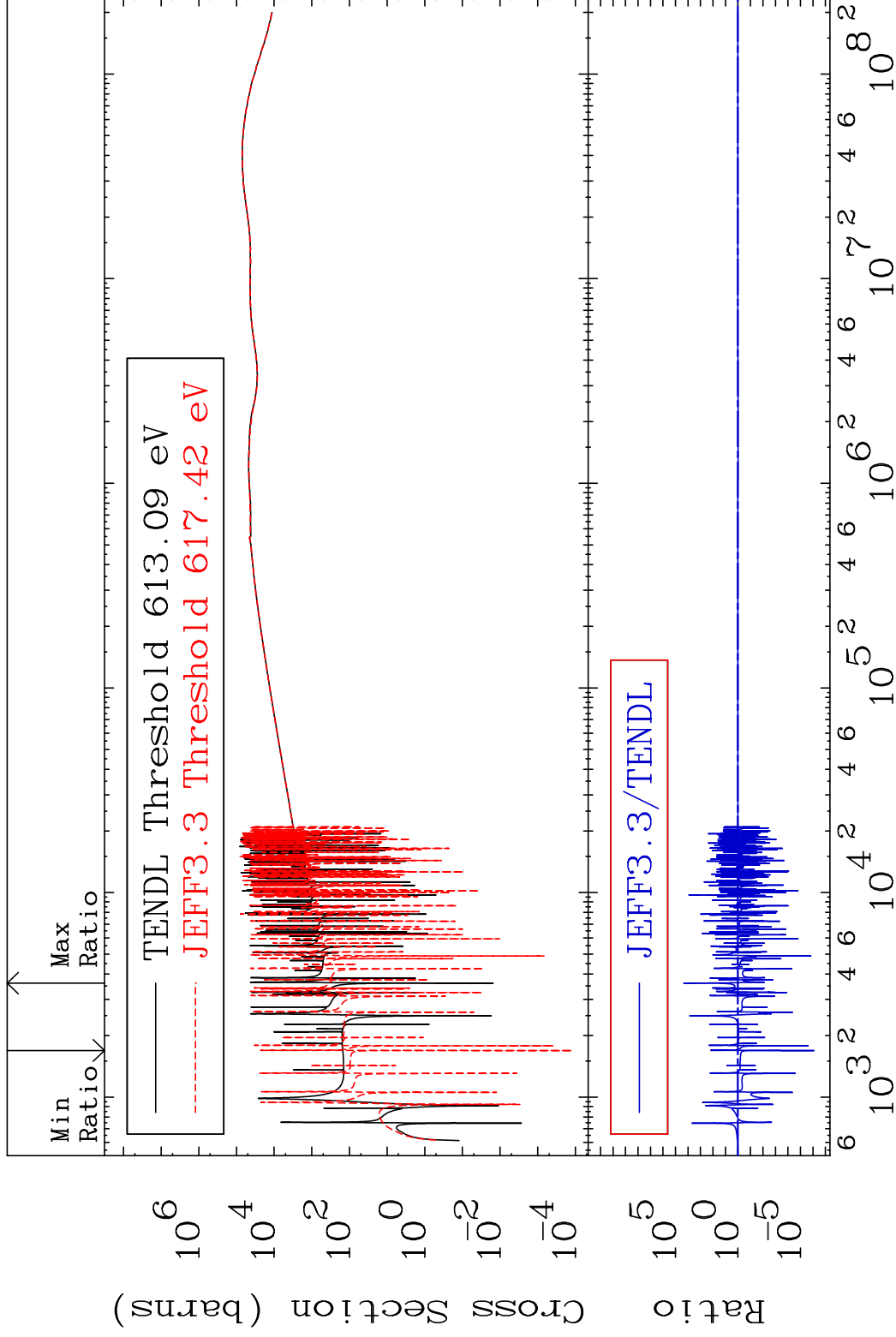
44-Ru-100

MAT 4437

Dpa elastic (mt2)

44-Ru-100

Cross Section -100.0 To 9999. %

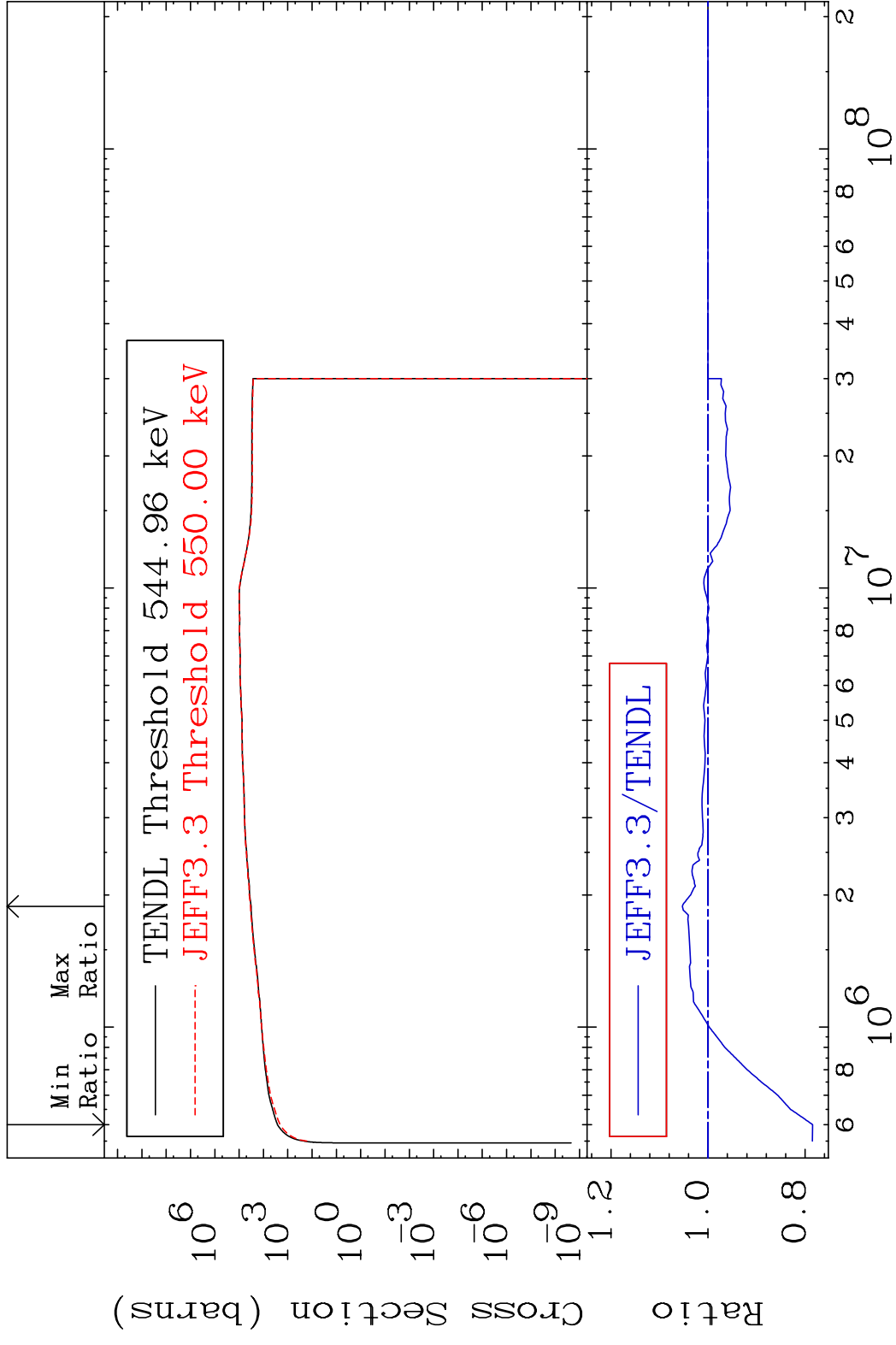


77

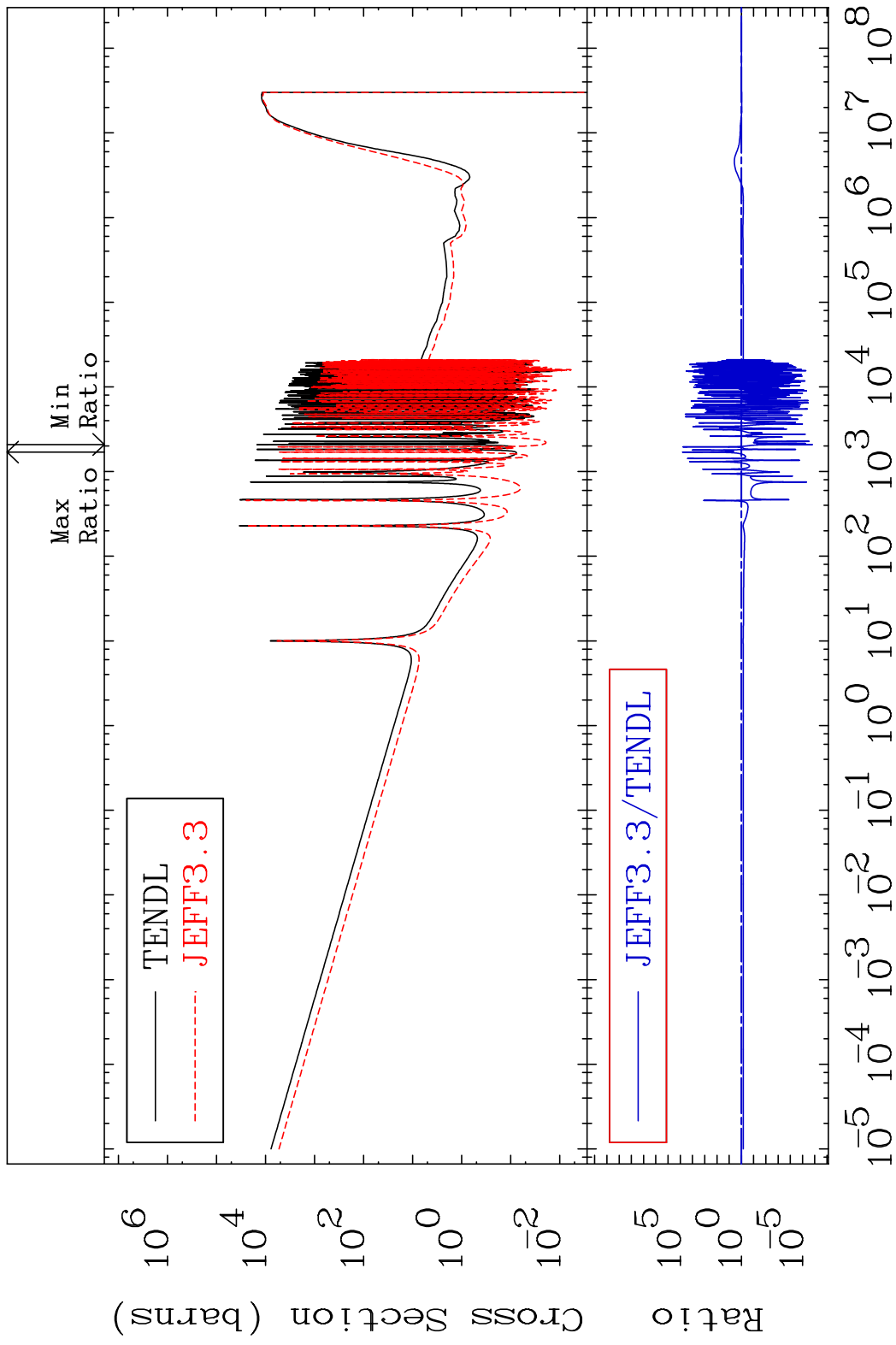
Incident Energy (eV)

44-Ru-100

MAT 4437 Dpa inelastic (mt51-91) 44-Ru-100  
 Cross Section -21.56 To 5.295 %

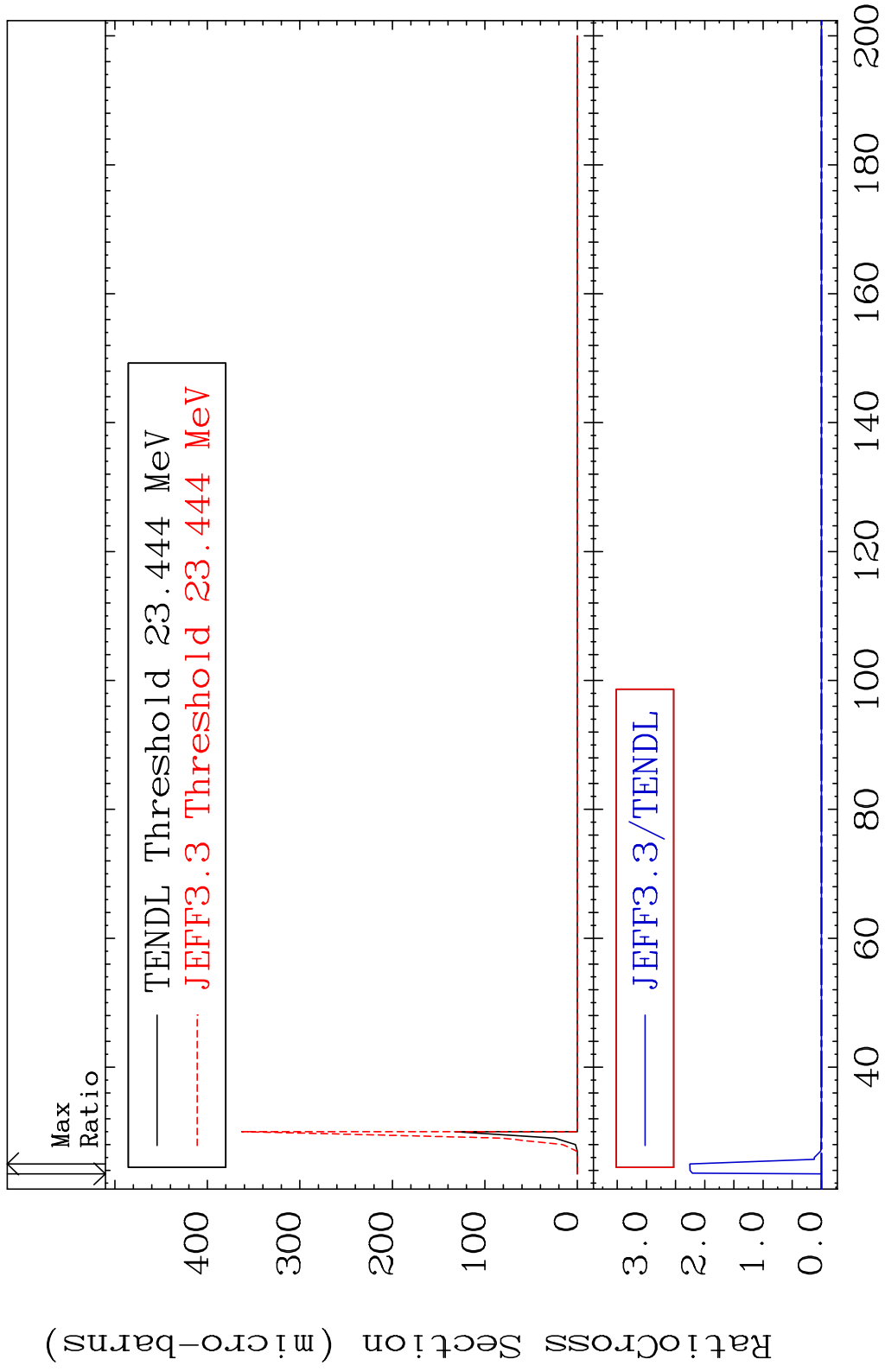


MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100  
 Cross Section -100.0 To 9999. %



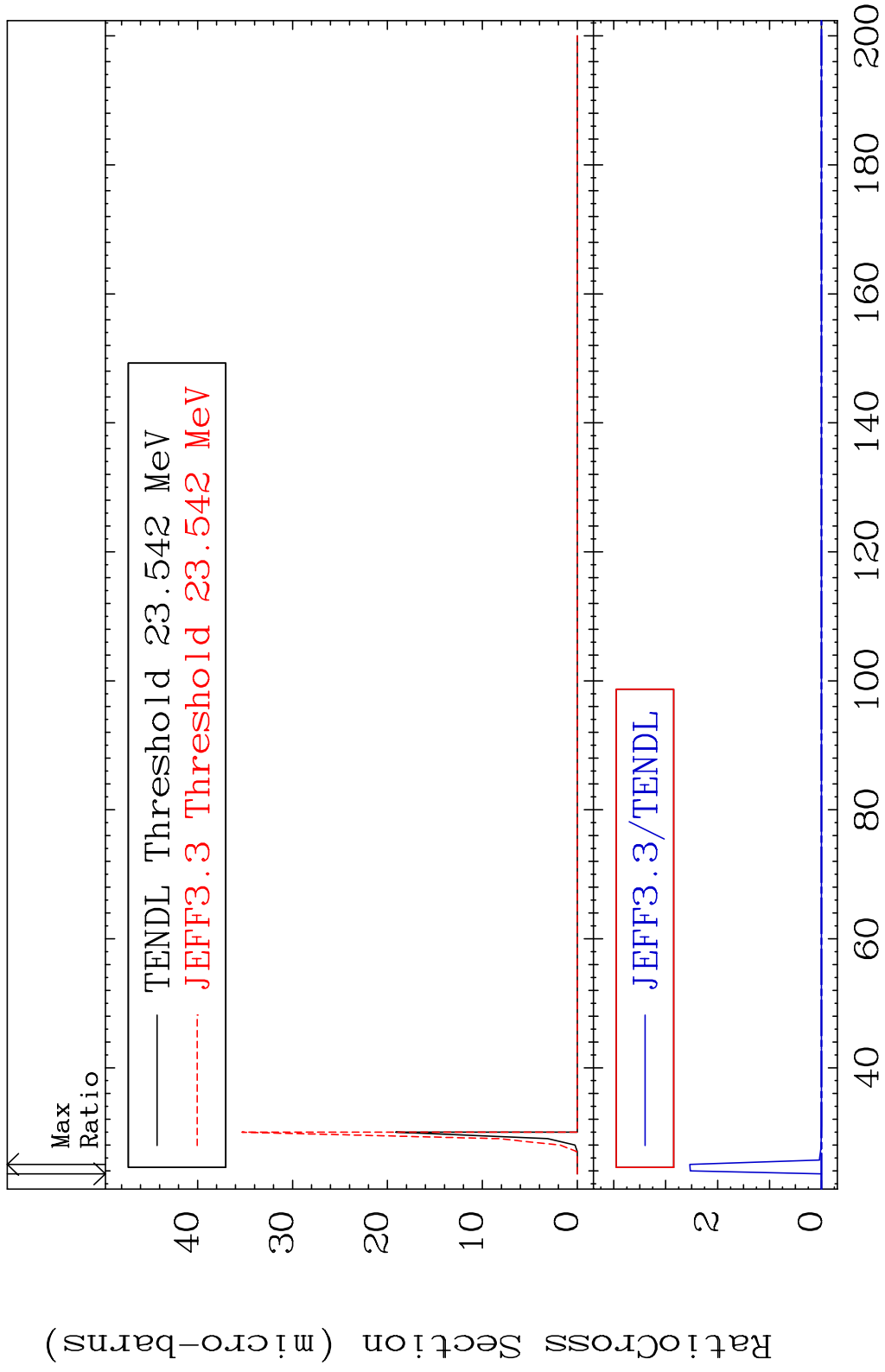


MAT 4437 (n,2n) d:43-Tc-97g 44-Ru-100  
 Radionuclide Production Cross Section Ratio 9999. %

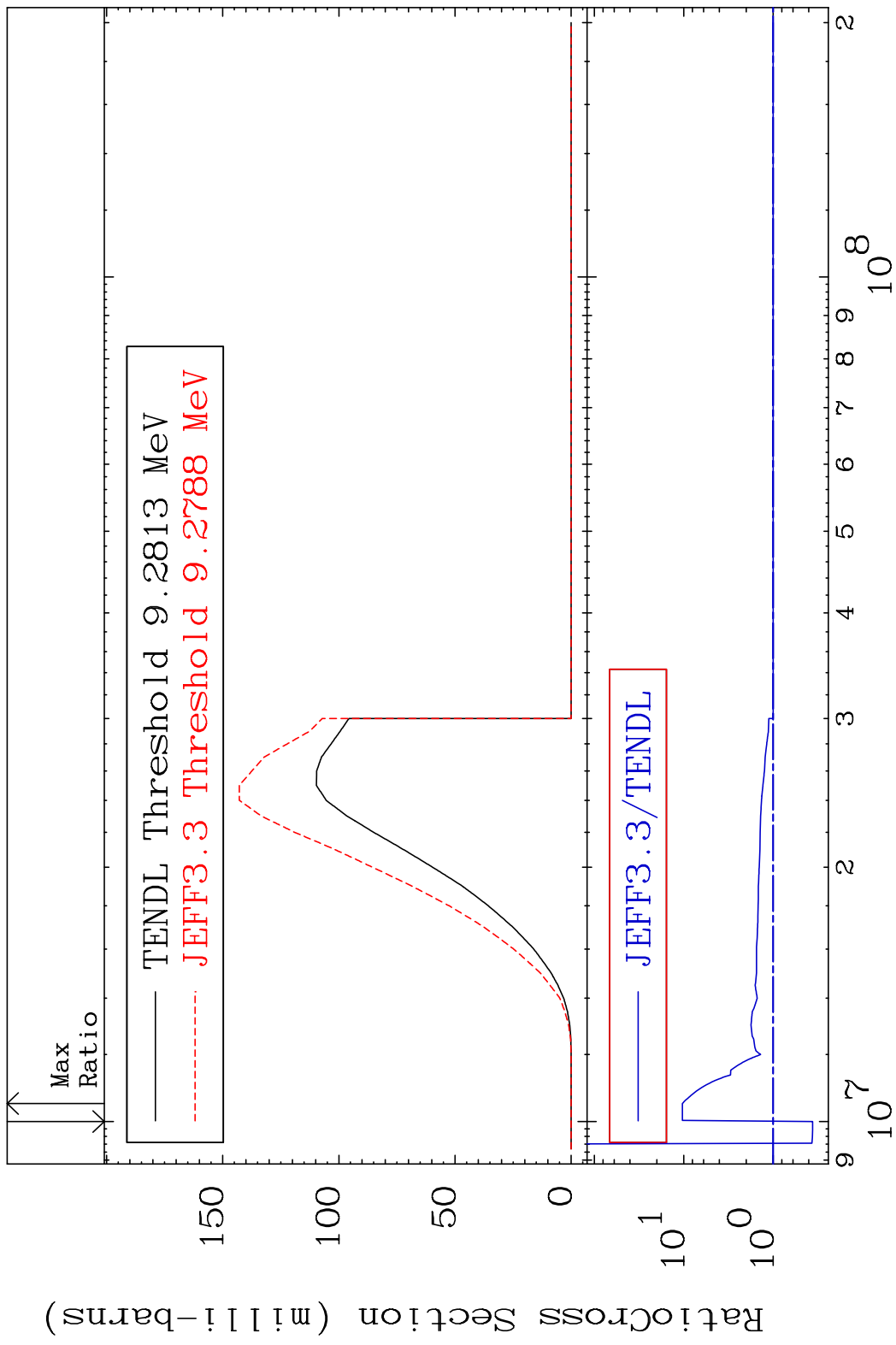


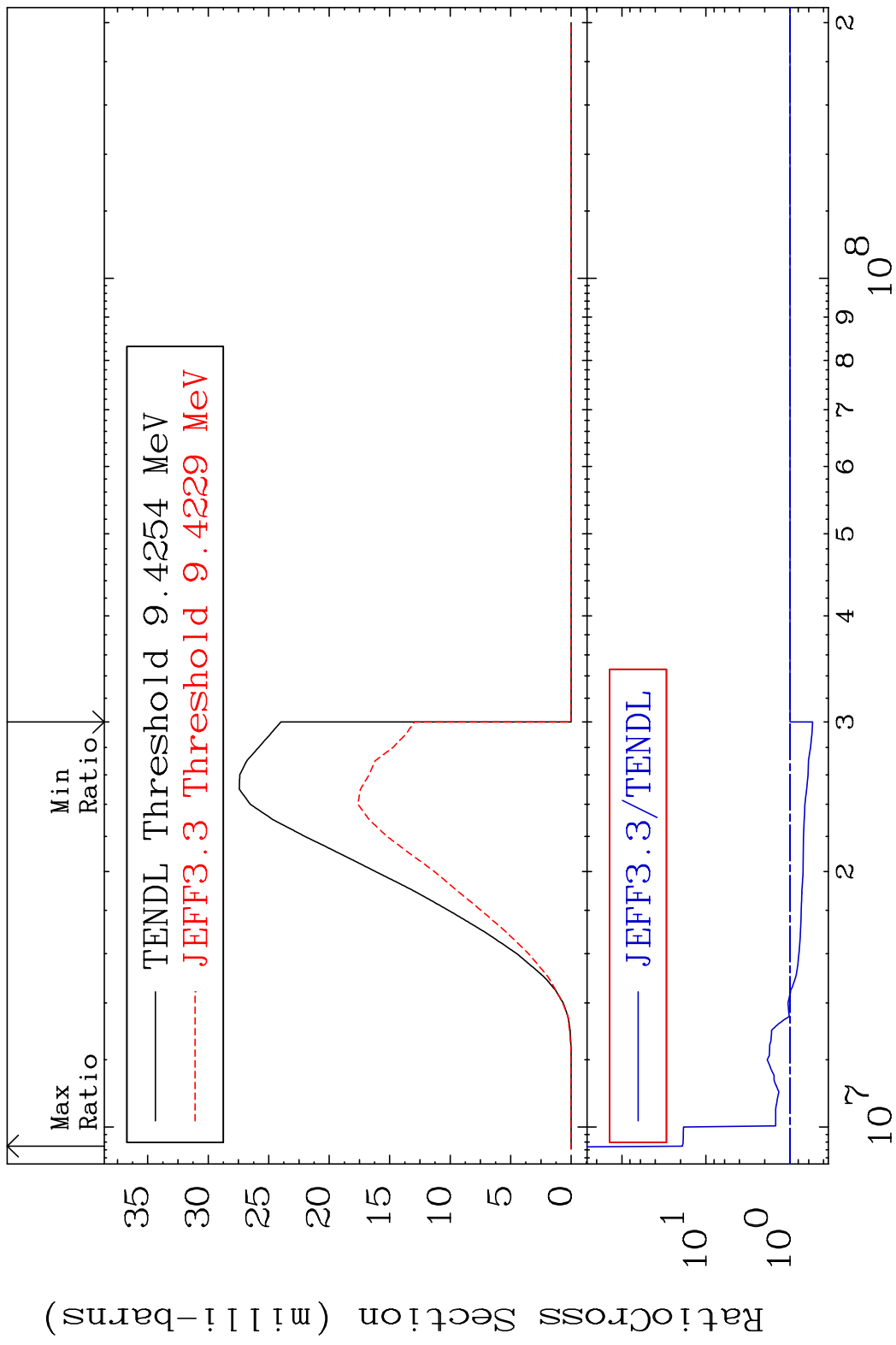
80

MAT 4437 (n,2n) d:43-Tc-97m1 44-Ru-100  
 Radionuclide Production Cross Section Ratio 9999. %

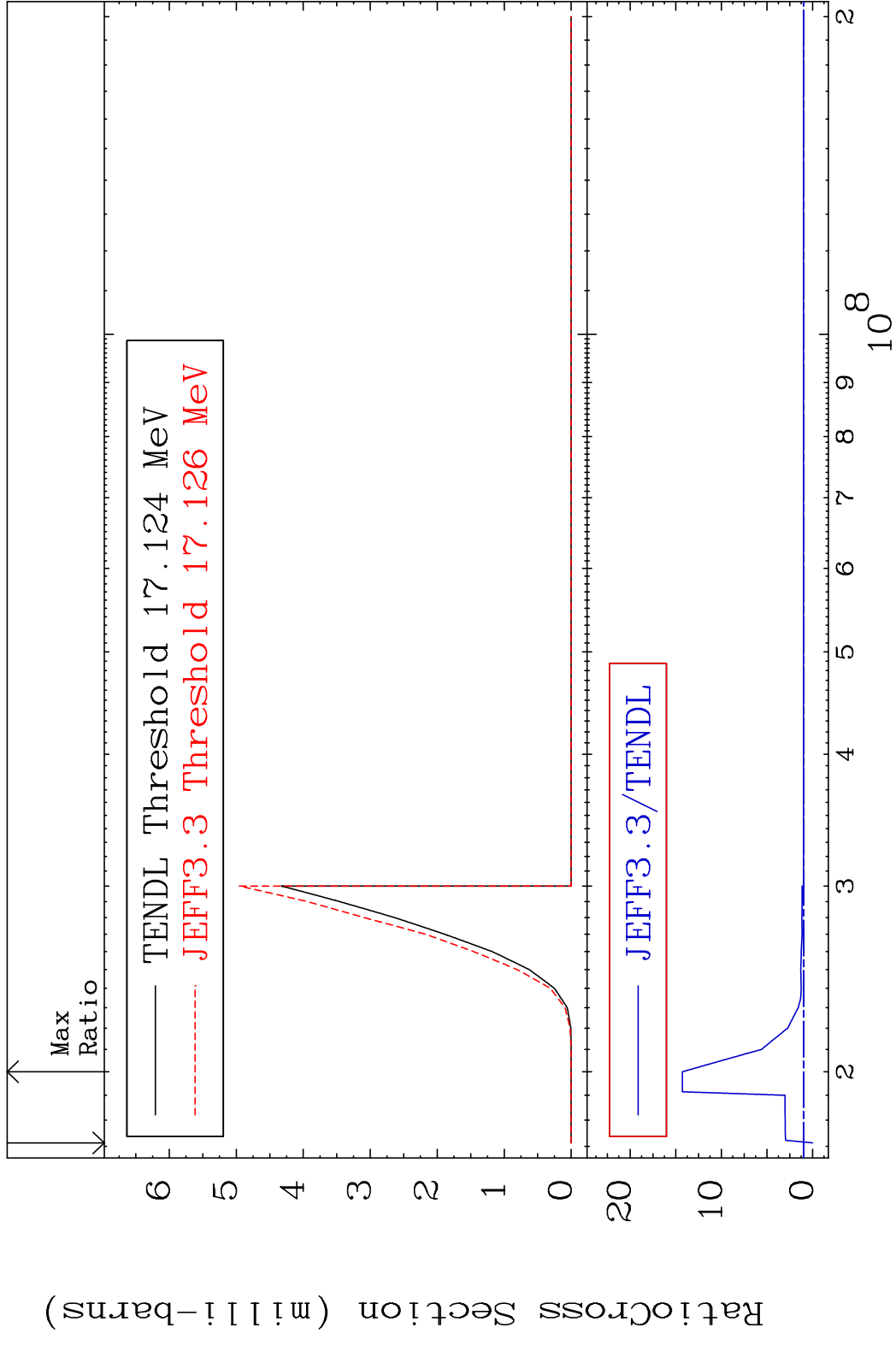


MAT 4437 (n, n') p:43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section 937.5 %

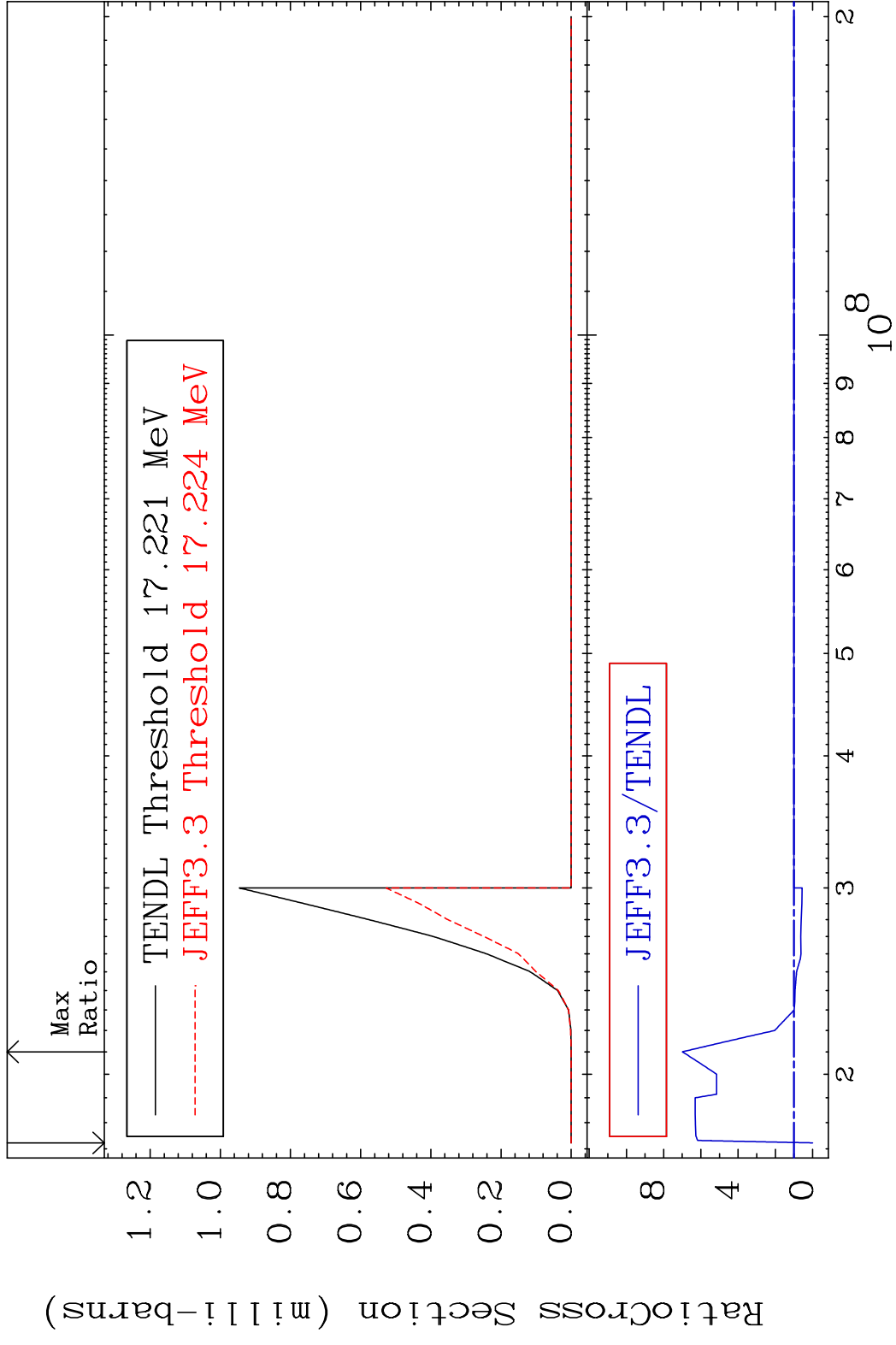




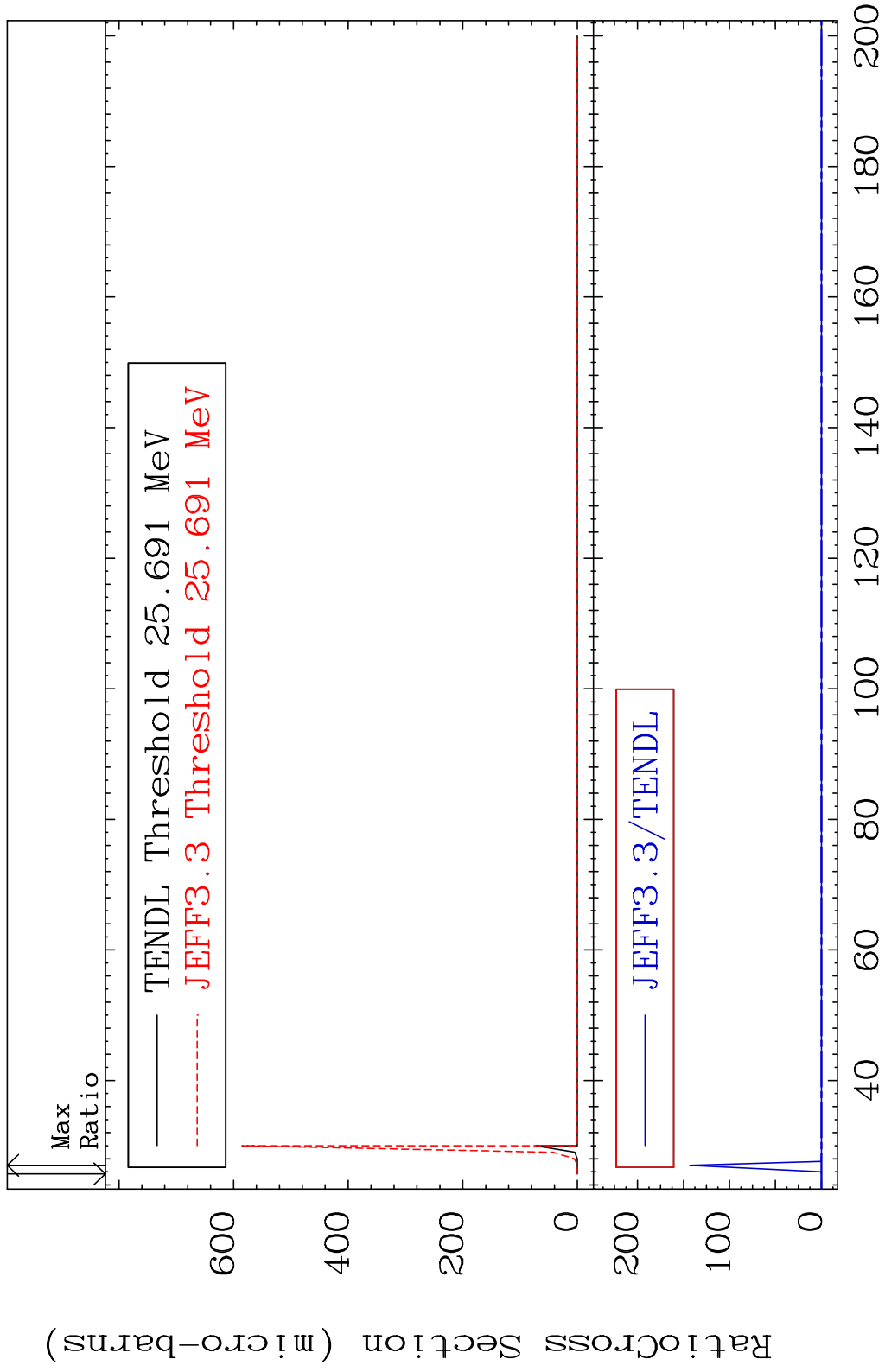
MAT 4437 (n, n') t:43-Tc-97g 44-Ru-100  
 Radionuclide Production Cross Section 1327. %



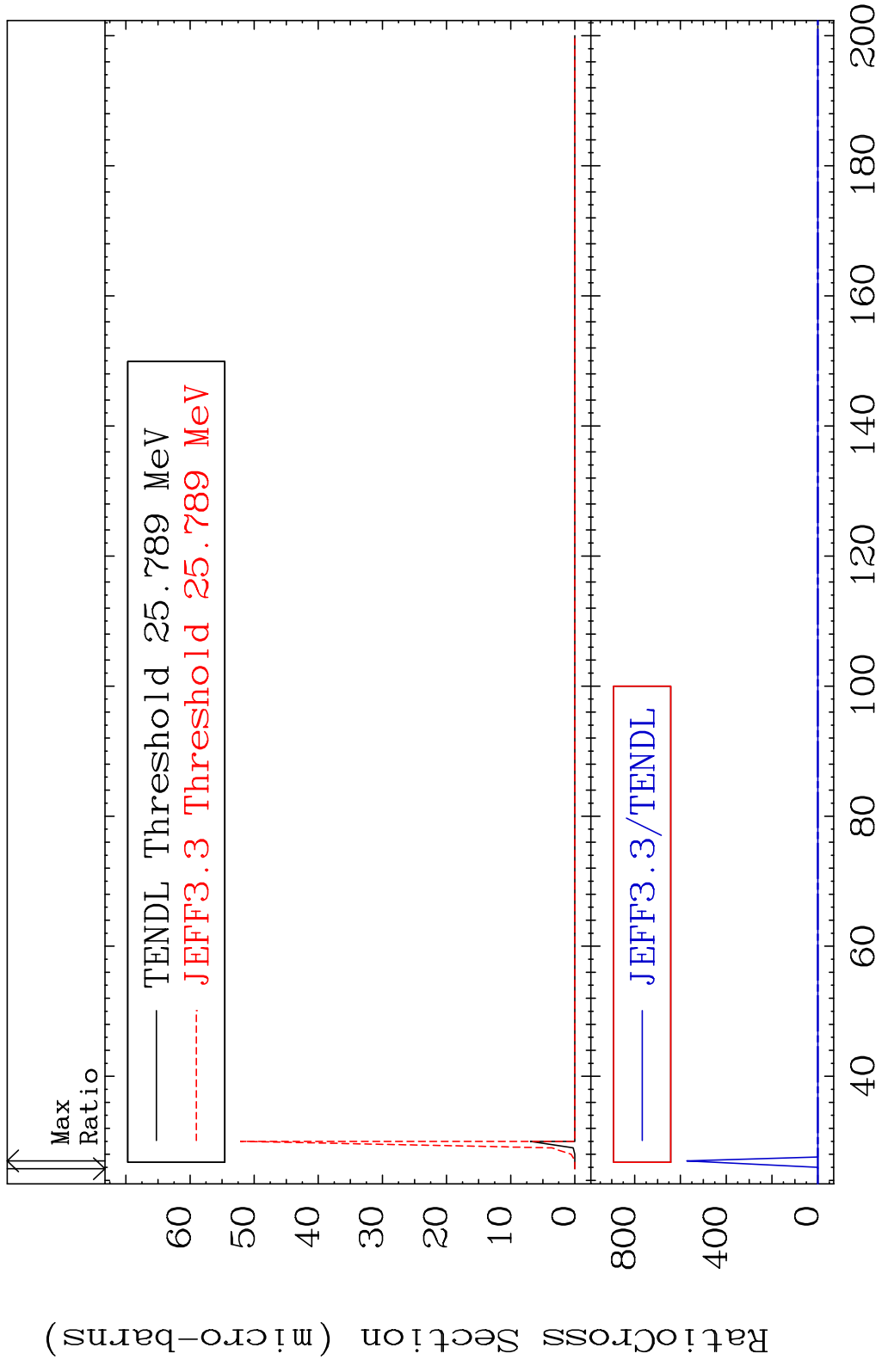
MAT 4437 (n, n') t:43-Tc-97m1 44-Ru-100  
 Radionuclide Production Cross Section 180.01 dth 599.5 %



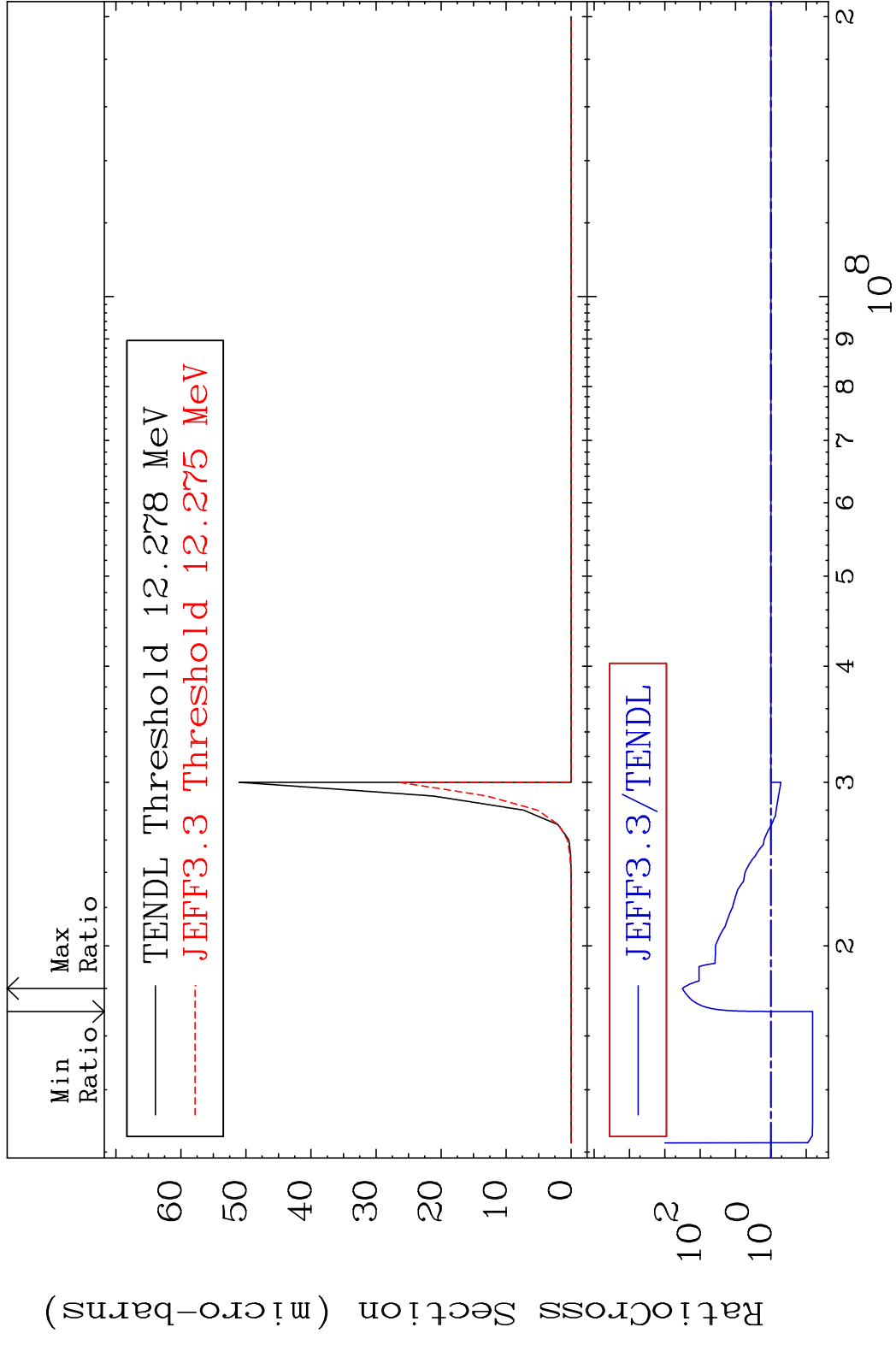
MAT 4437 (n, 3n) p:43-Tc-97g 44-Ru-100  
 Radionuclide Production Cross Section 100.00 %



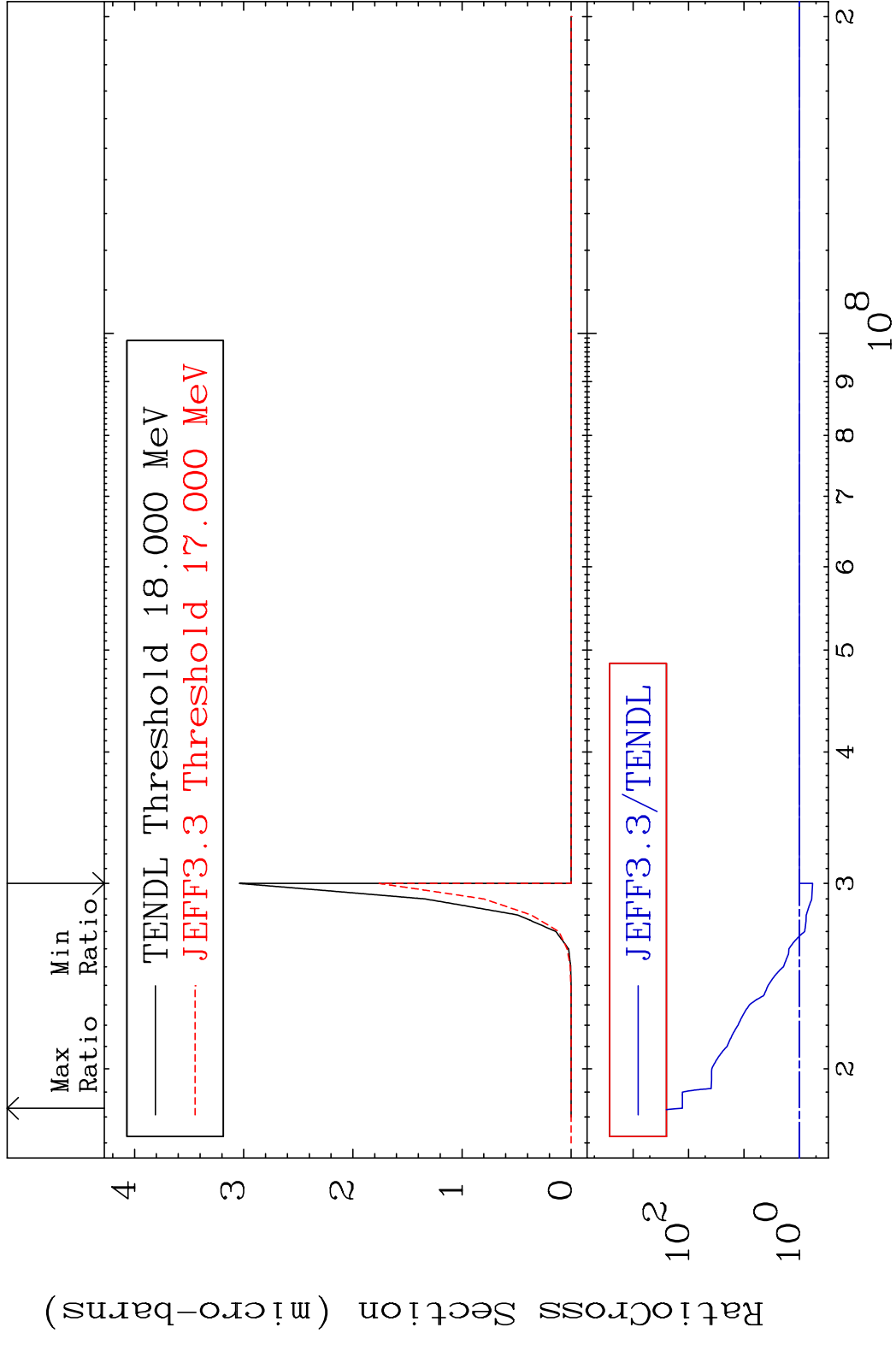
MAT 4437 (n,3n) p:43-Tc-97m1 44-Ru-100  
 Radionuclide Production Cross Section 100.00 %



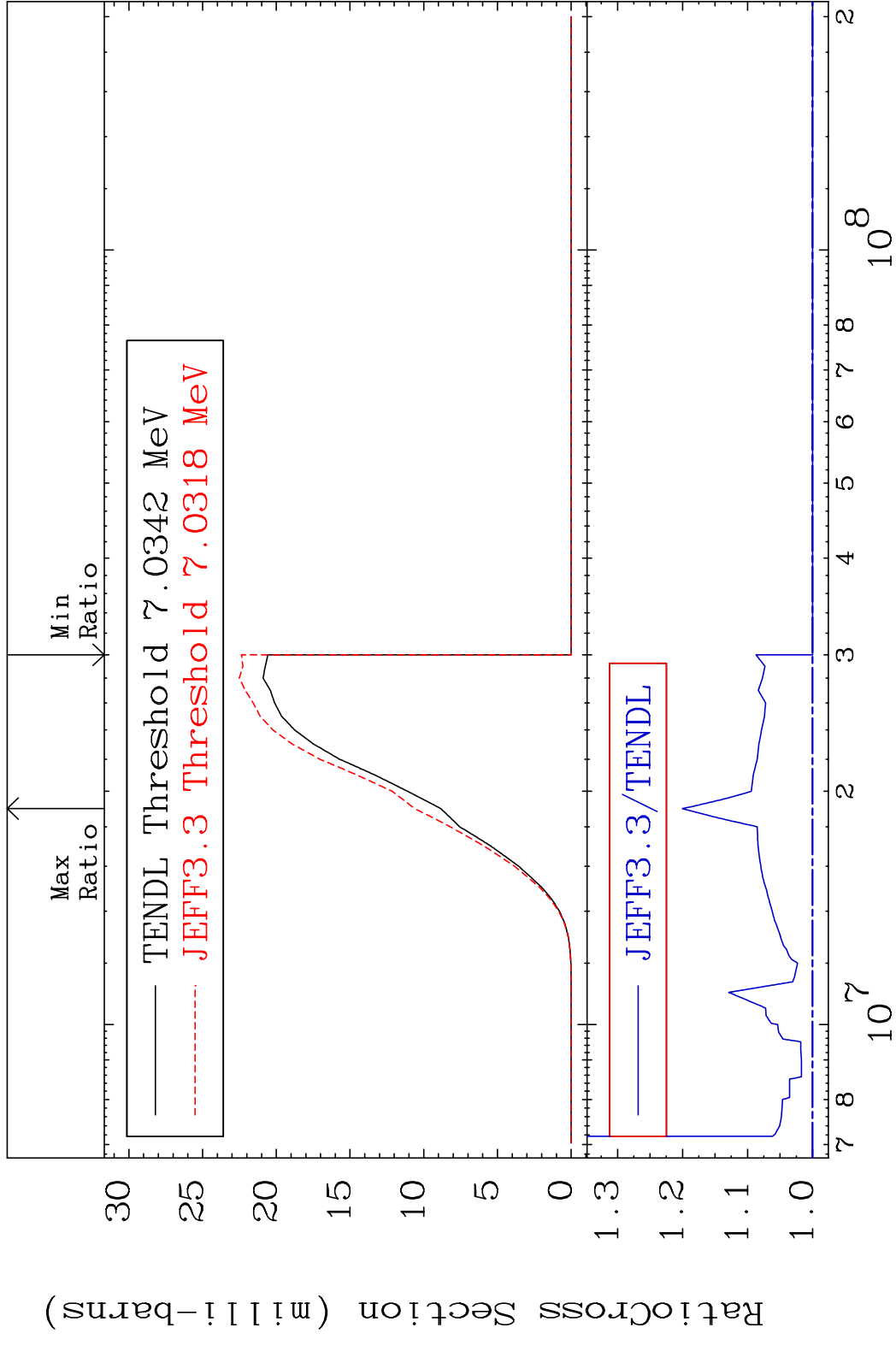


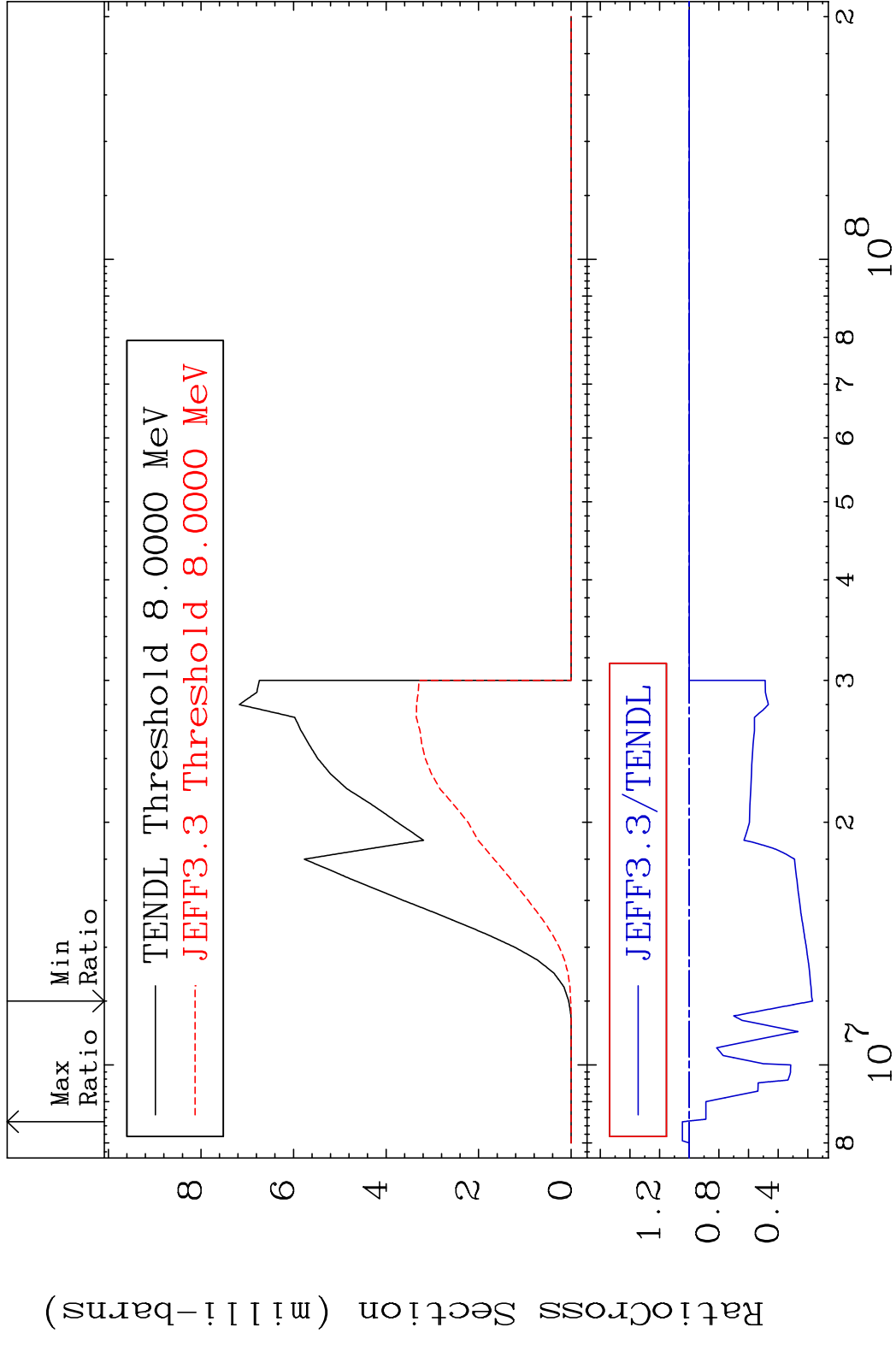


MAT 4437 (n, n') p  $\alpha$ : 41-Nb-95m1 44-Ru-100  
 Radionuclide Production Cross Section to 9999. %

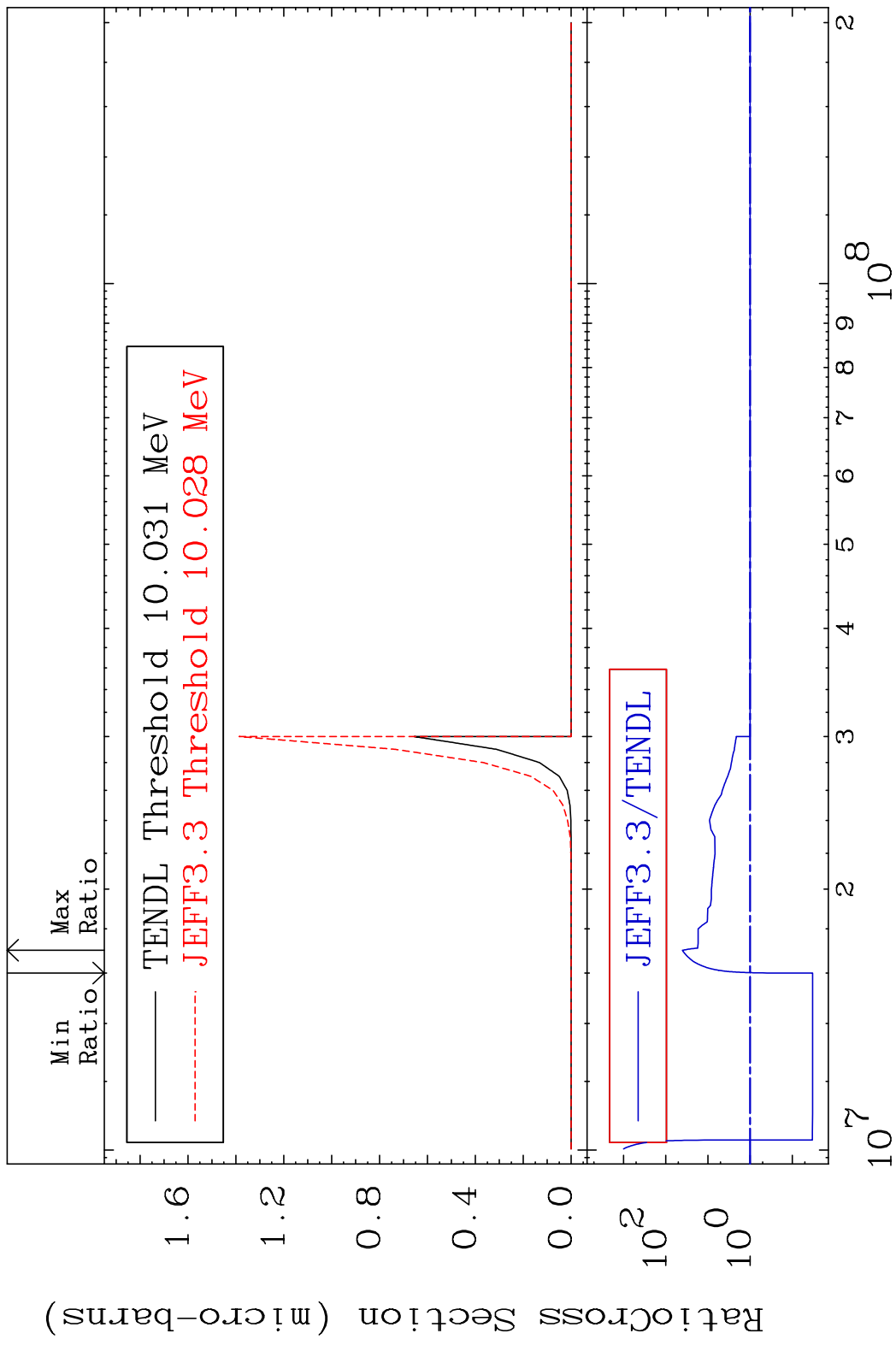


MAT 4437 (n,d):43-Tc-99g 44-Ru-100  
 Radionuclide Production Cross Section 20.03 %





MAT 4437 (n, d)  $\alpha$ :41-Nb-95g 44-Ru-100  
 Radionuclide Production Cross Section 3922. %



MAT 4437 (n, d)  $\alpha$ :41-Nb-95m1 44-Ru-100  
 Radionuclide Production Cross Section 100.00 %  
 Incident Energy 4150. %

