

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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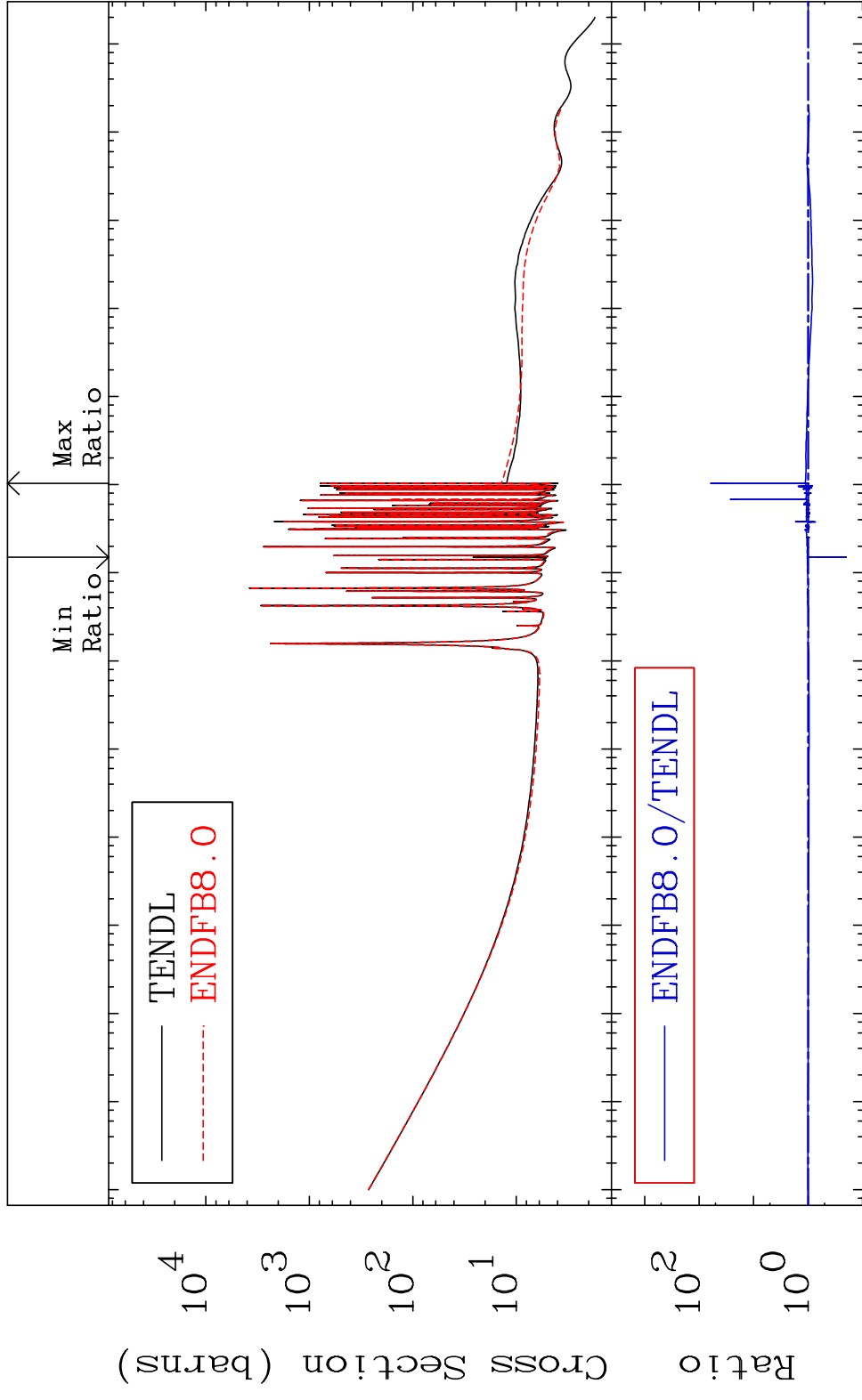
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4440

Total Cross Section -80.18 To 6020. %

44-Ru-101



44-Ru-101

Incident Energy (eV)

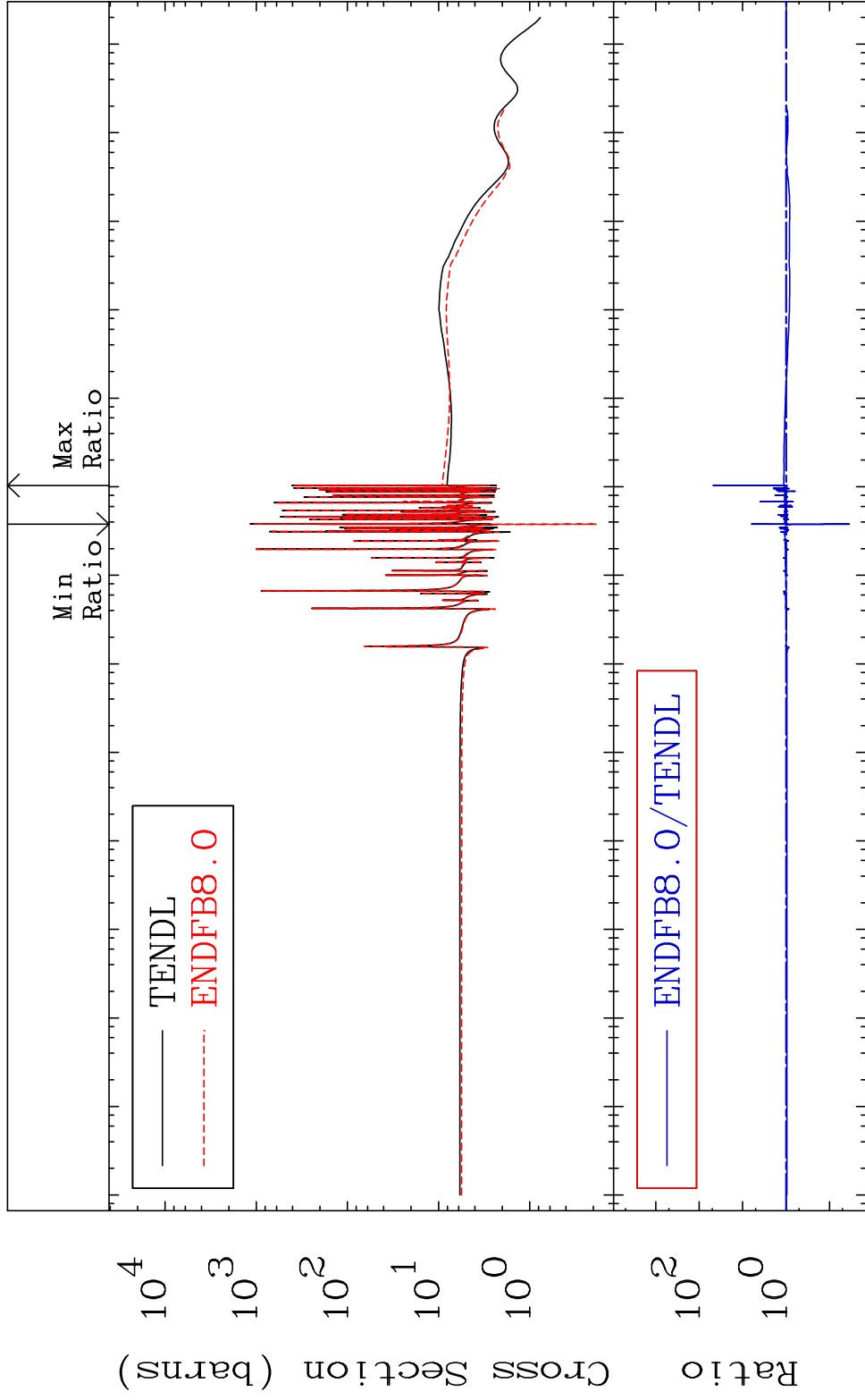
1

MAT 4440

Elastic

44-Ru-101

Cross Section -96.50 To 4664. %



$10^4$

$10^3$

$10^2$

$10^1$

$10^0$

$10^2$

$10^0$

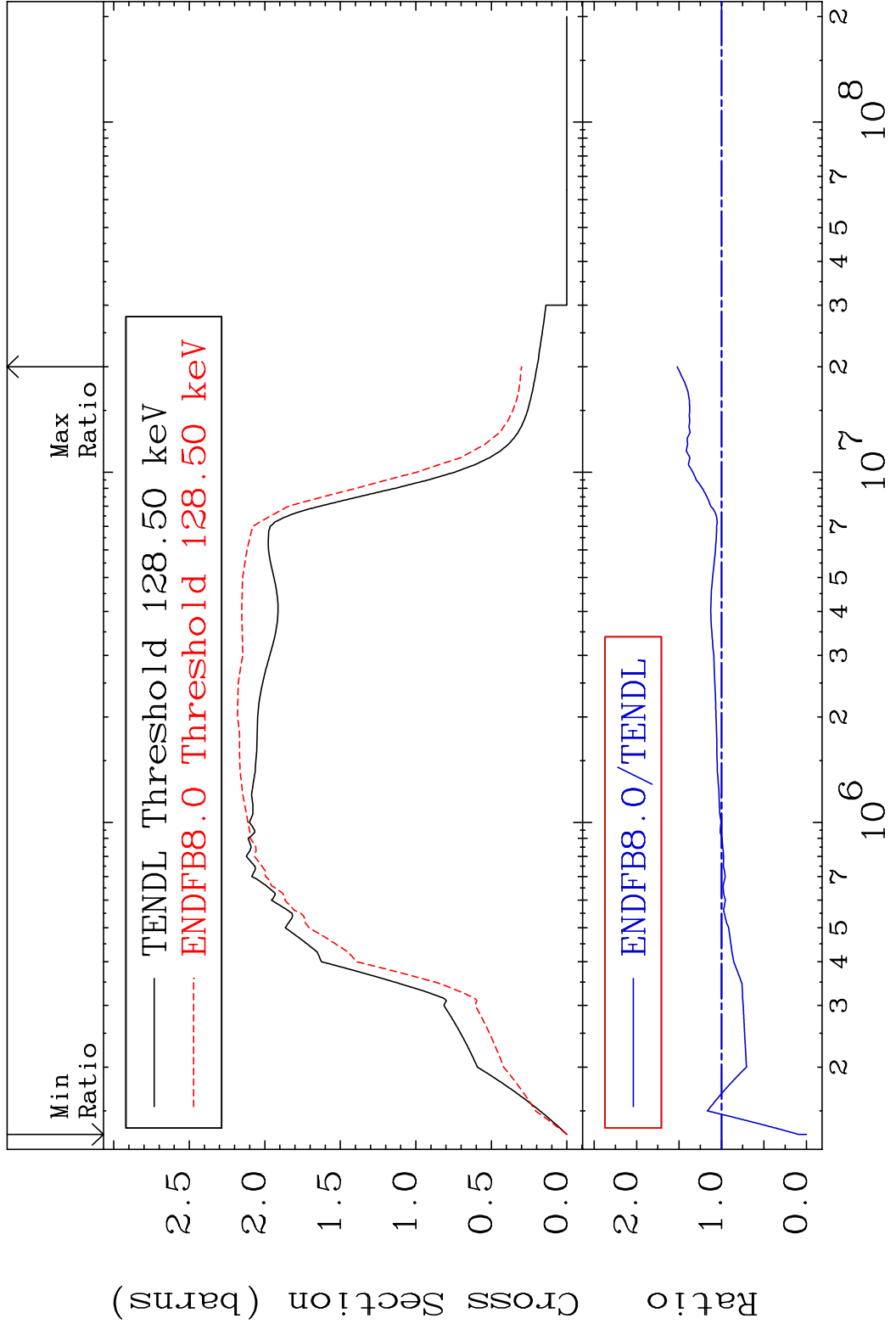
$10^{-5}$   $10^{-4}$   $10^{-3}$   $10^{-2}$   $10^{-1}$   $10^0$   $10^1$   $10^2$   $10^3$   $10^4$   $10^5$   $10^6$   $10^7$   $10^8$

2

Incident Energy (eV)

44-Ru-101

MAT 4440 Inelastic 44-Ru-101  
 Cross Section -100.0 To 52.21 %

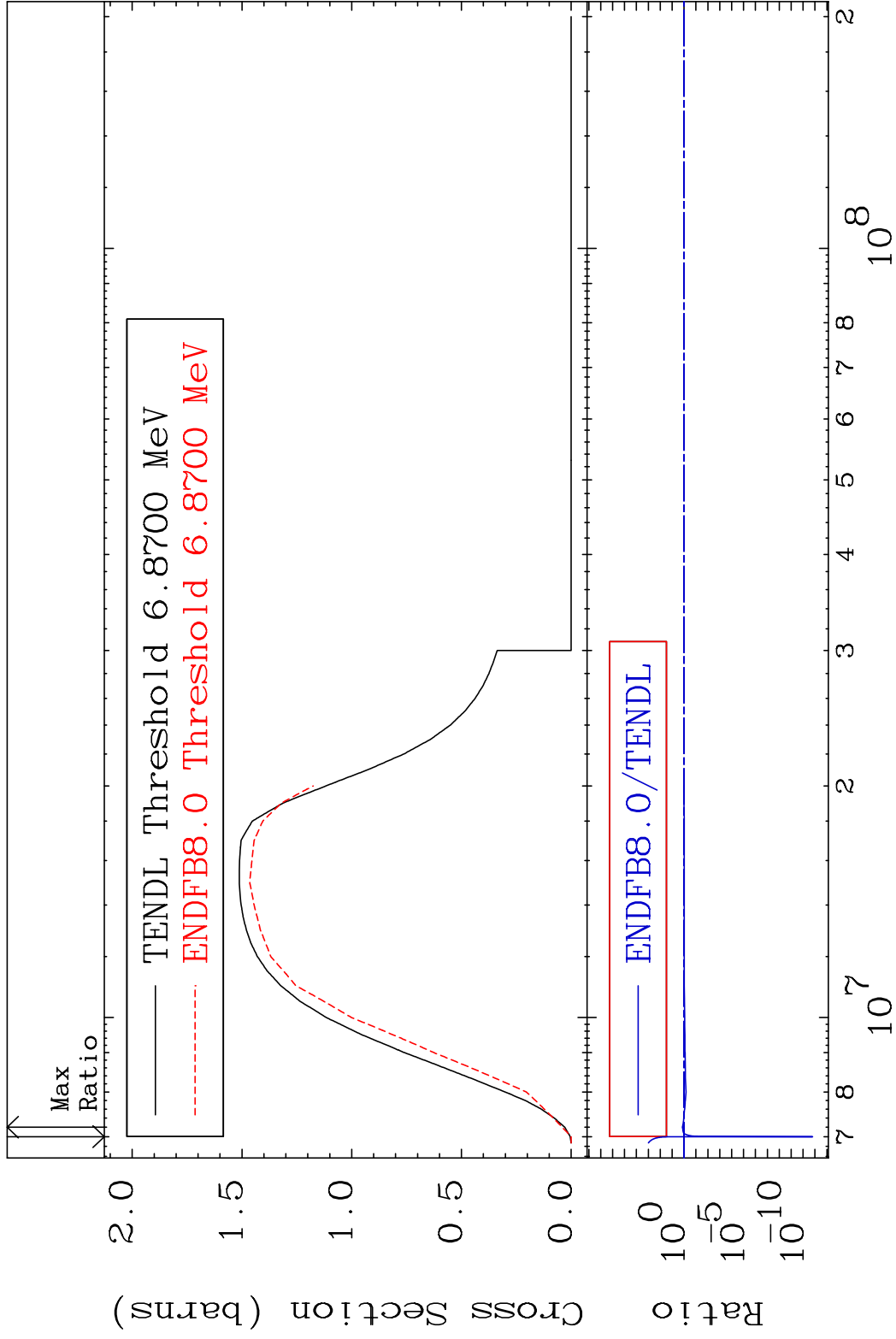


MAT 4440

(n,2n)

44-Ru-101

Cross Section -100.0 To 37.99 %

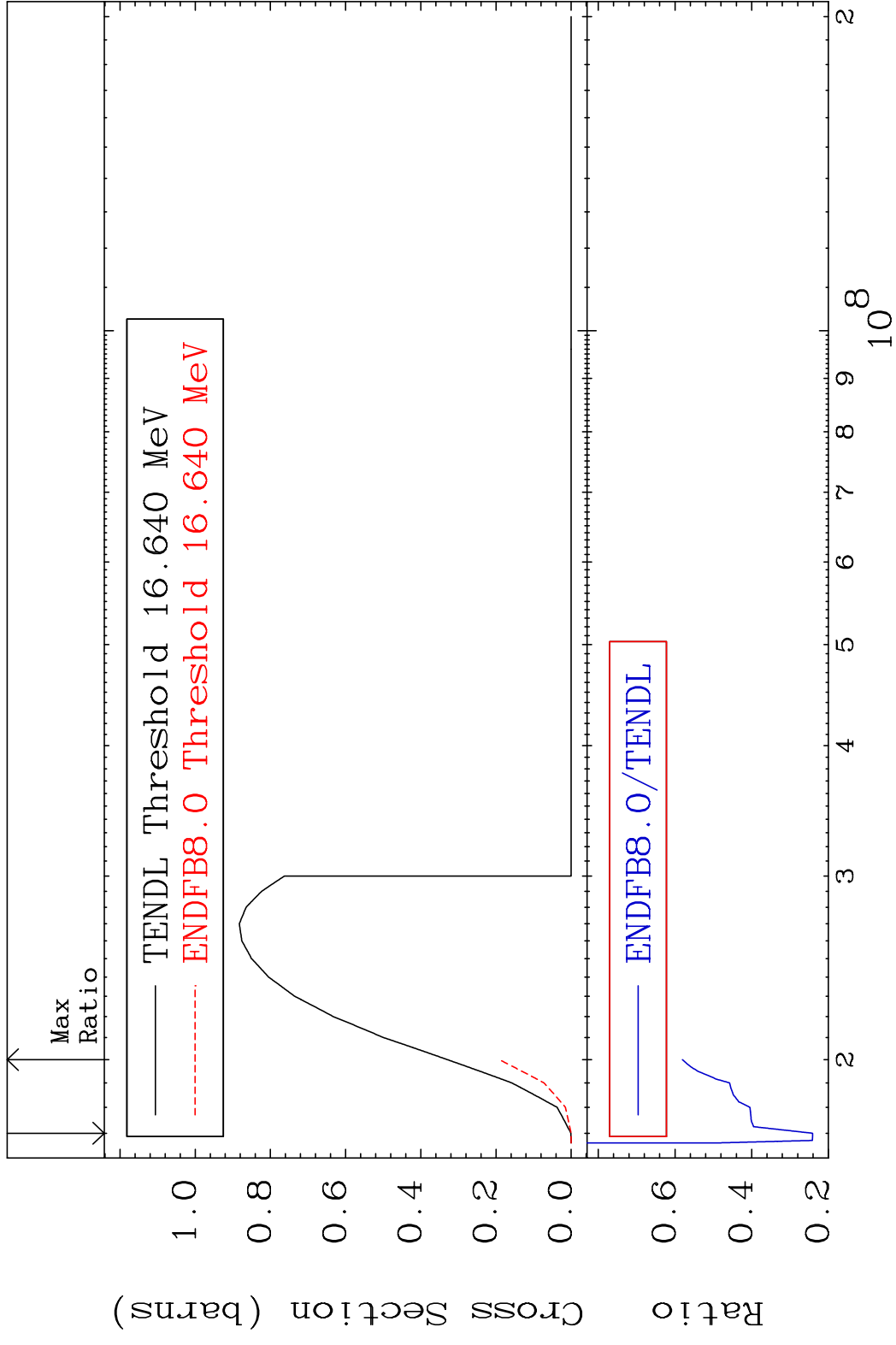


4

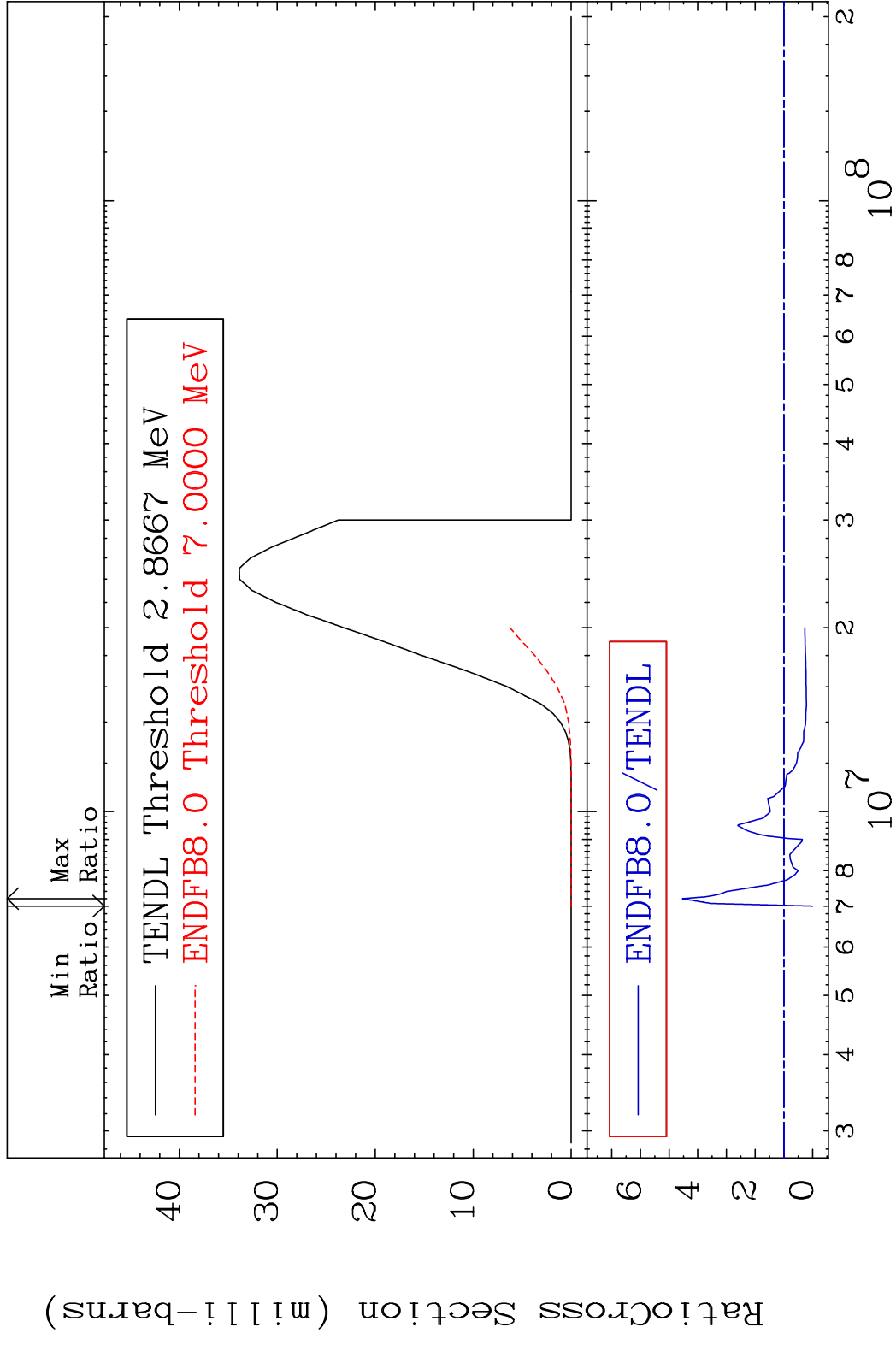
Incident Energy (eV)

44-Ru-101

MAT 4440 (n,3n) 44-Ru-101  
 Cross Section -75.87 To -41.92%



MAT 4440 (n, n')  $\alpha$  44-Ru-101  
 Cross Section -100.0 To 353.7 %

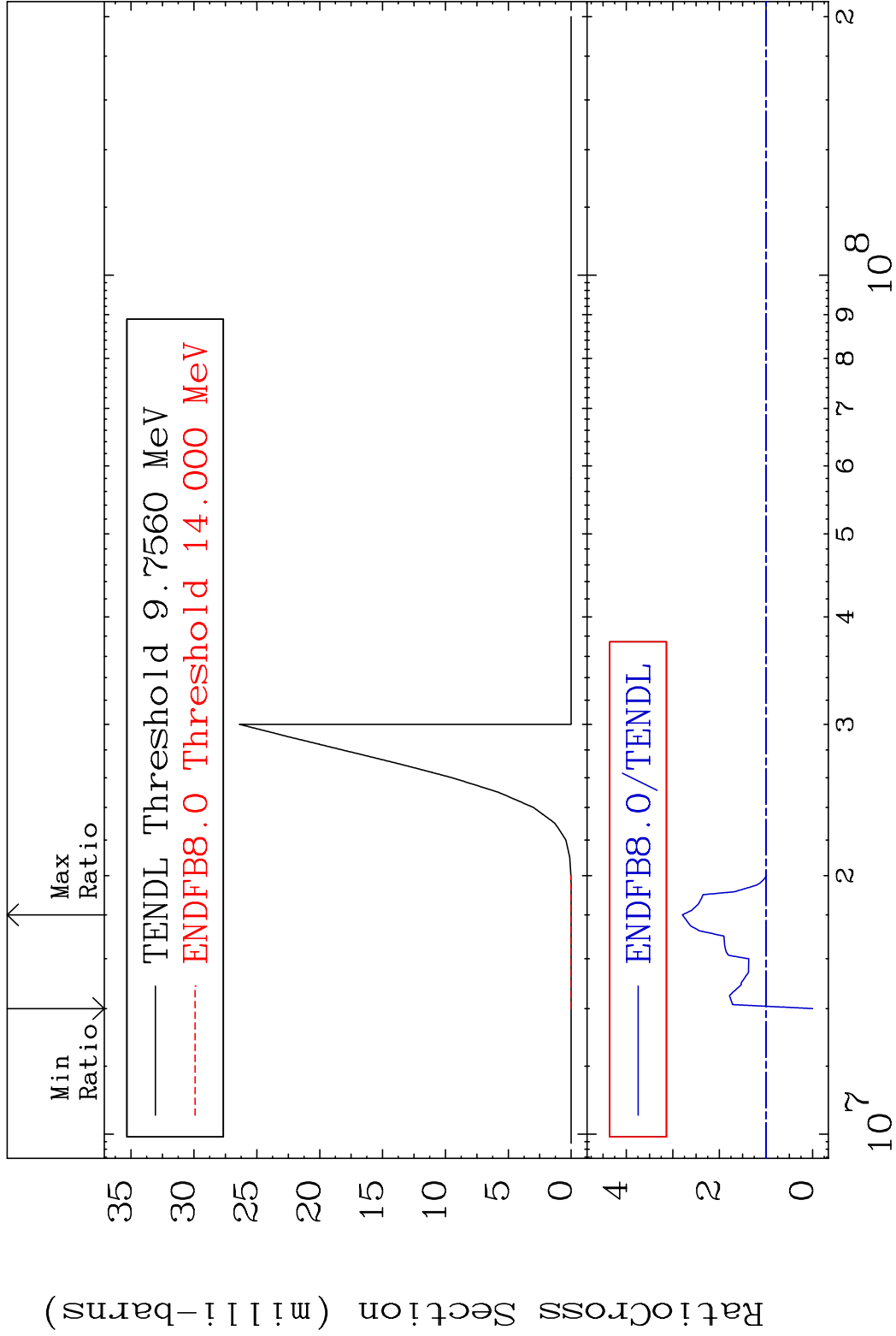


MAT 4440

(n,2n)  $\alpha$

44-Ru-101

Cross Section -100.0 To 179.5 %



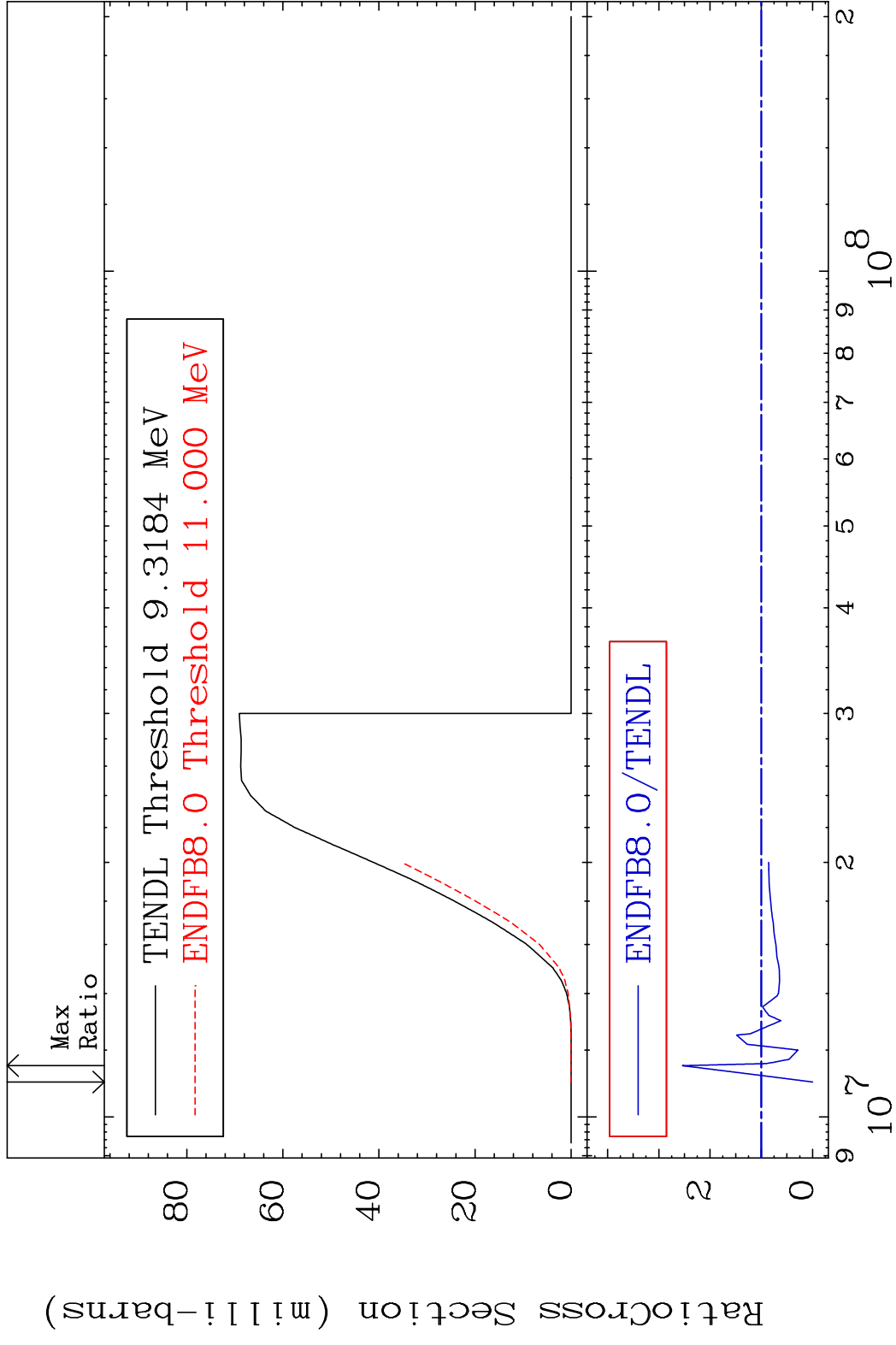
7

Incident Energy (eV)

44-Ru-101

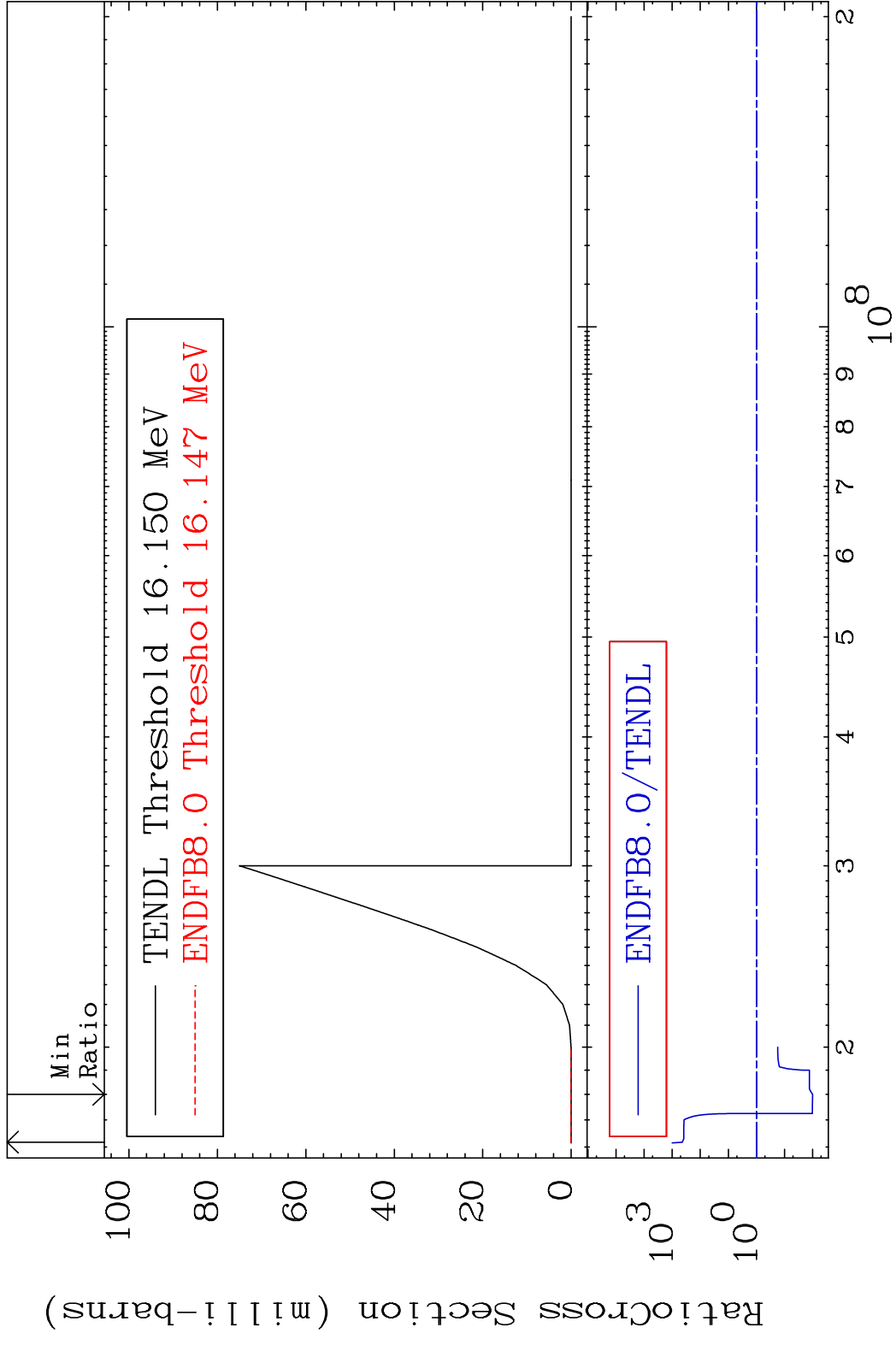


MAT 4440 (n, n') p 44-Ru-101  
 Cross Section -100.0 To 154.0 %

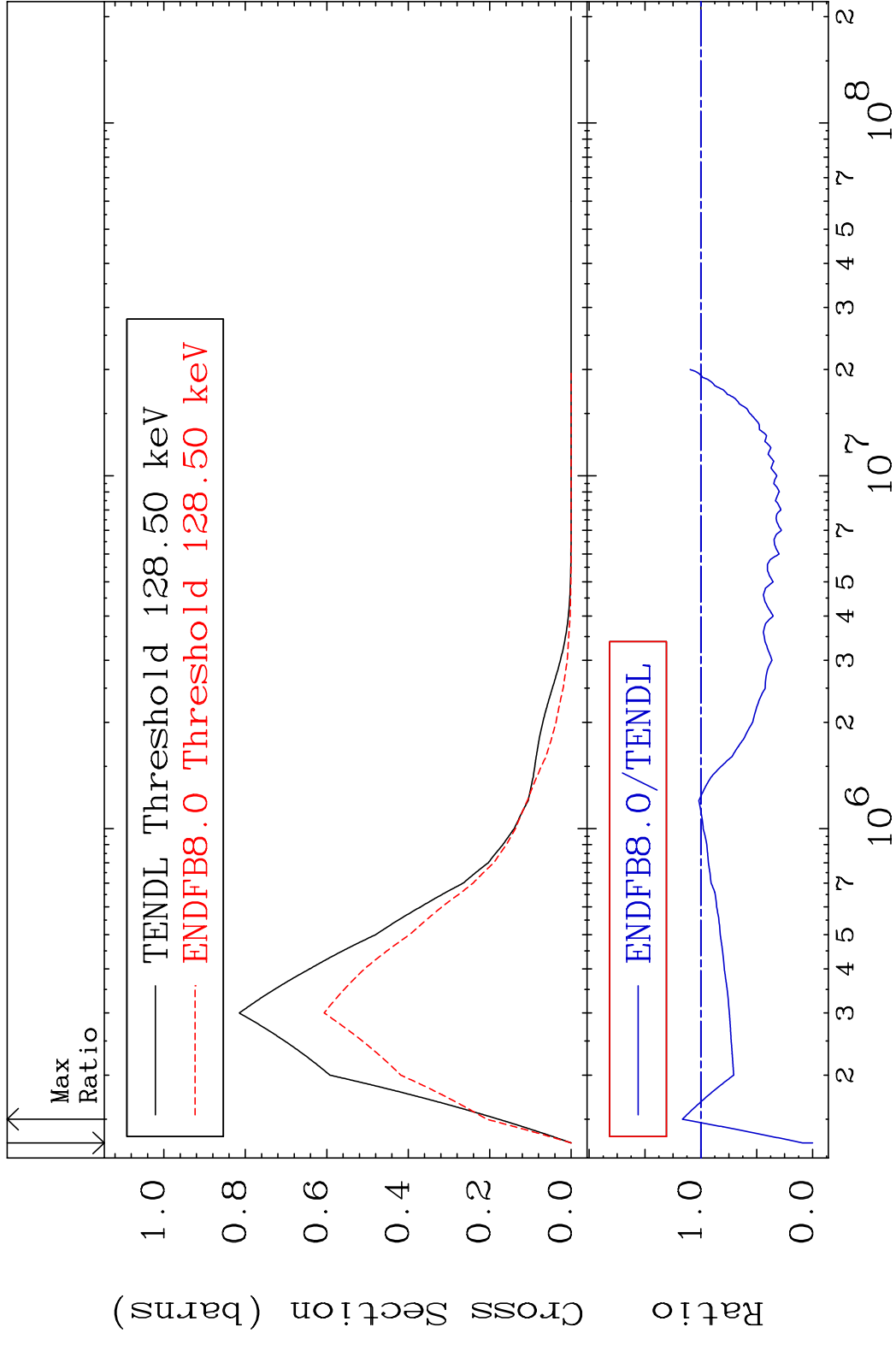


8 9 10<sup>7</sup> 10<sup>8</sup> 2 44-Ru-101

MAT 4440 (n,2n) p 44-Ru-101  
 Cross Section -98.99 To 9999. %

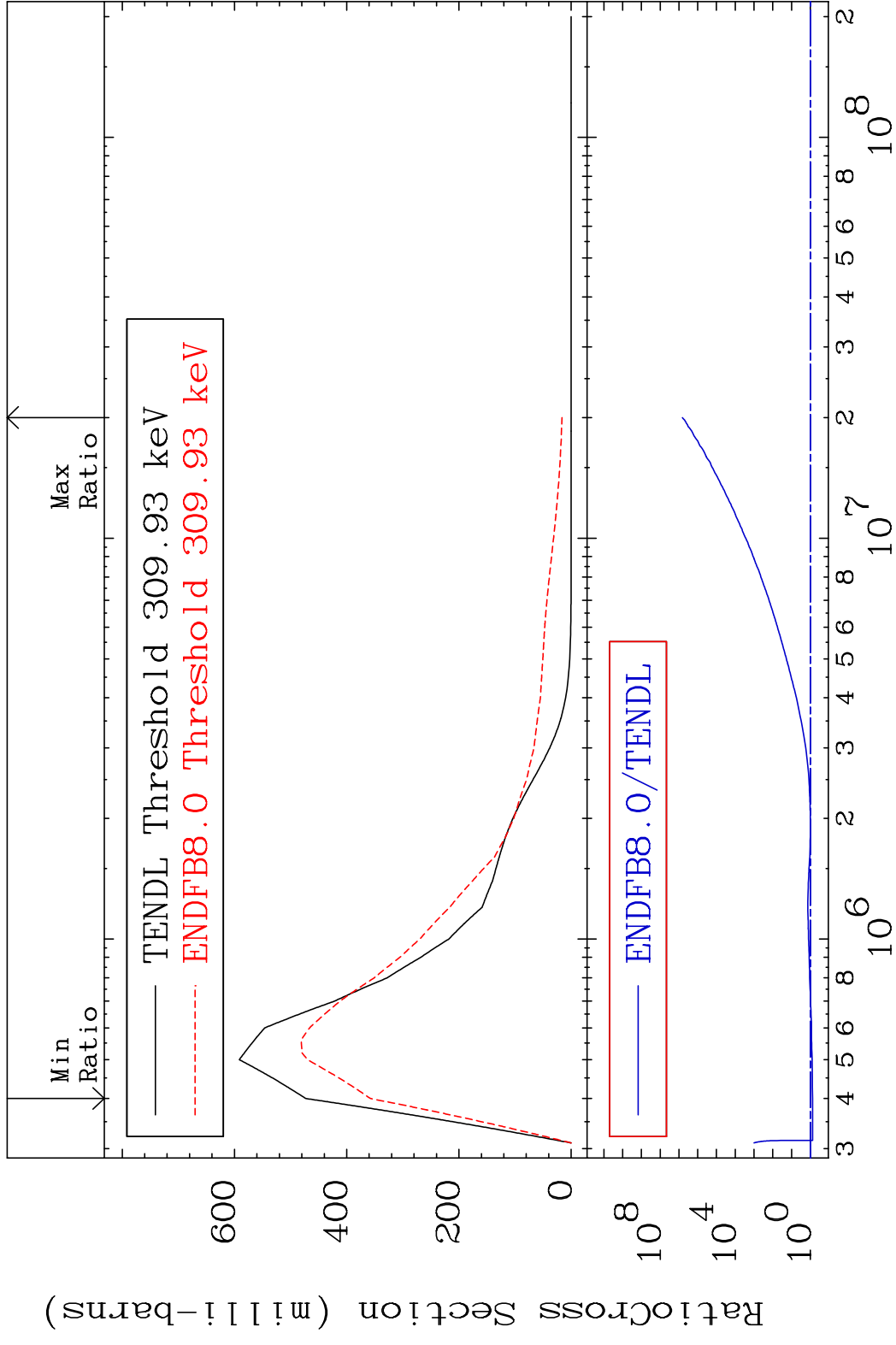


MAT 4440 MT= 51 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 16.59 %

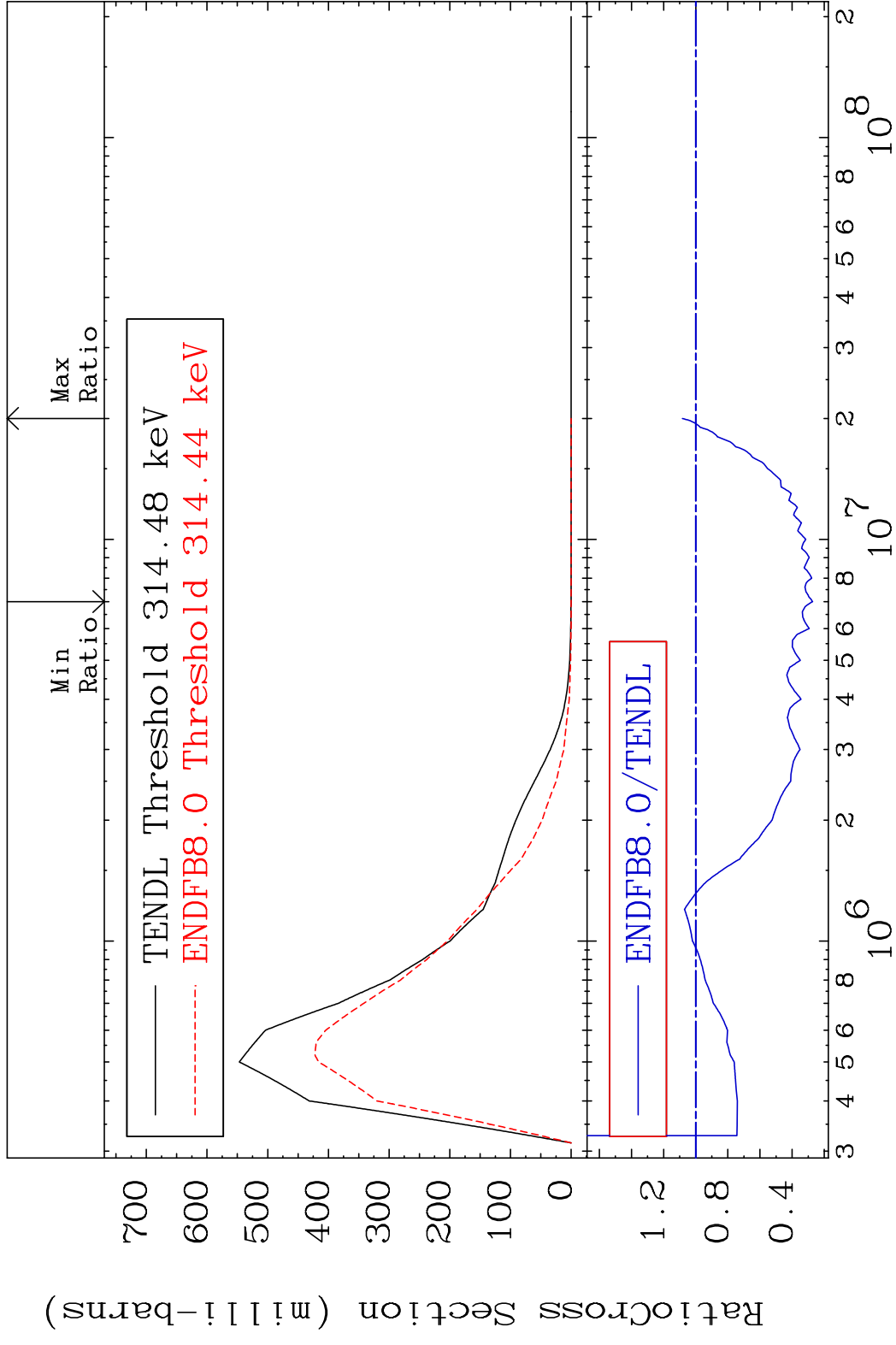


10 Incident Energy (eV) 44-Ru-101

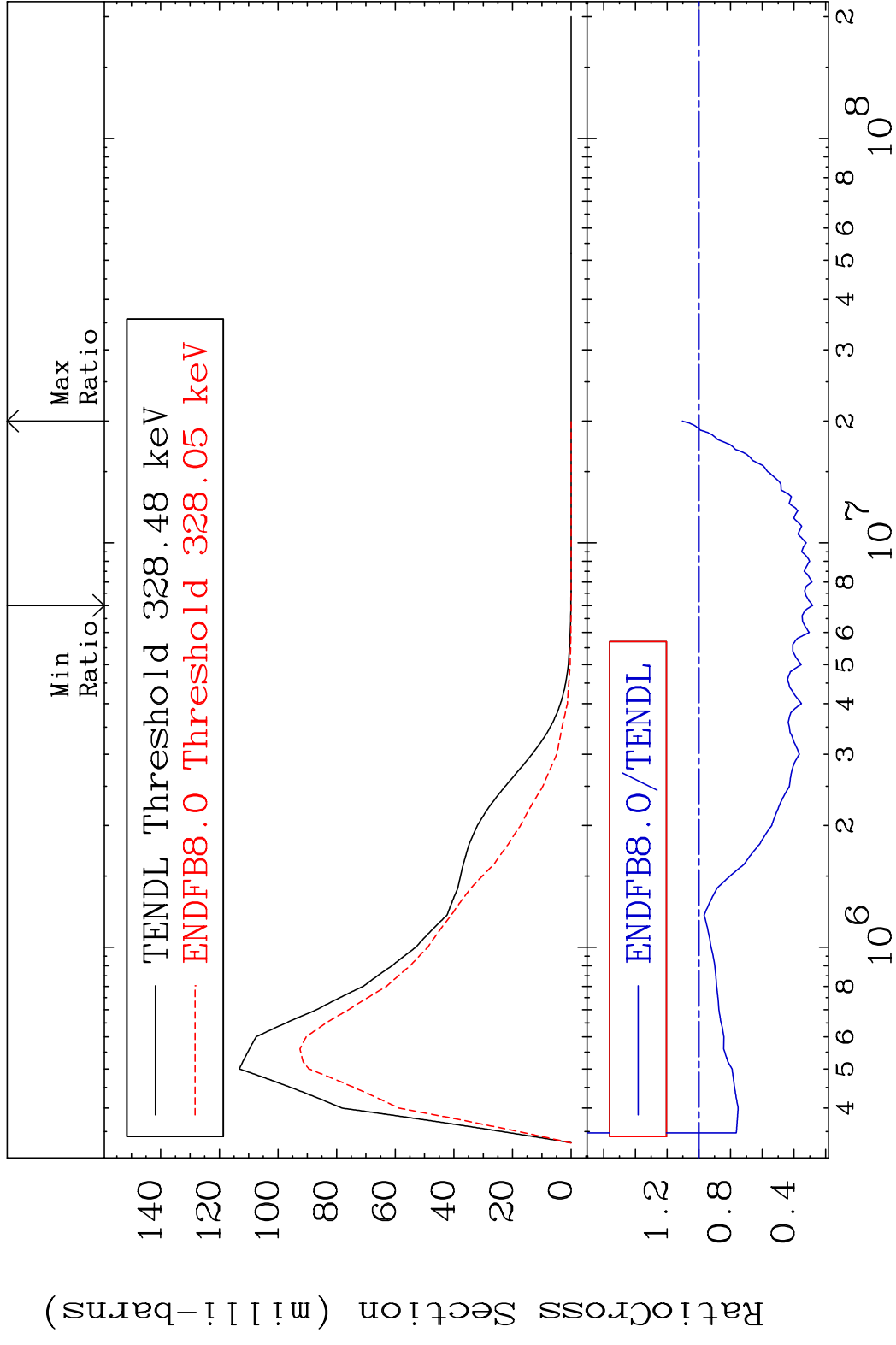
MAT 4440 MT= 52 (n, n') Level 44-Ru-101  
 Cross Section -24.38 To 9999. %



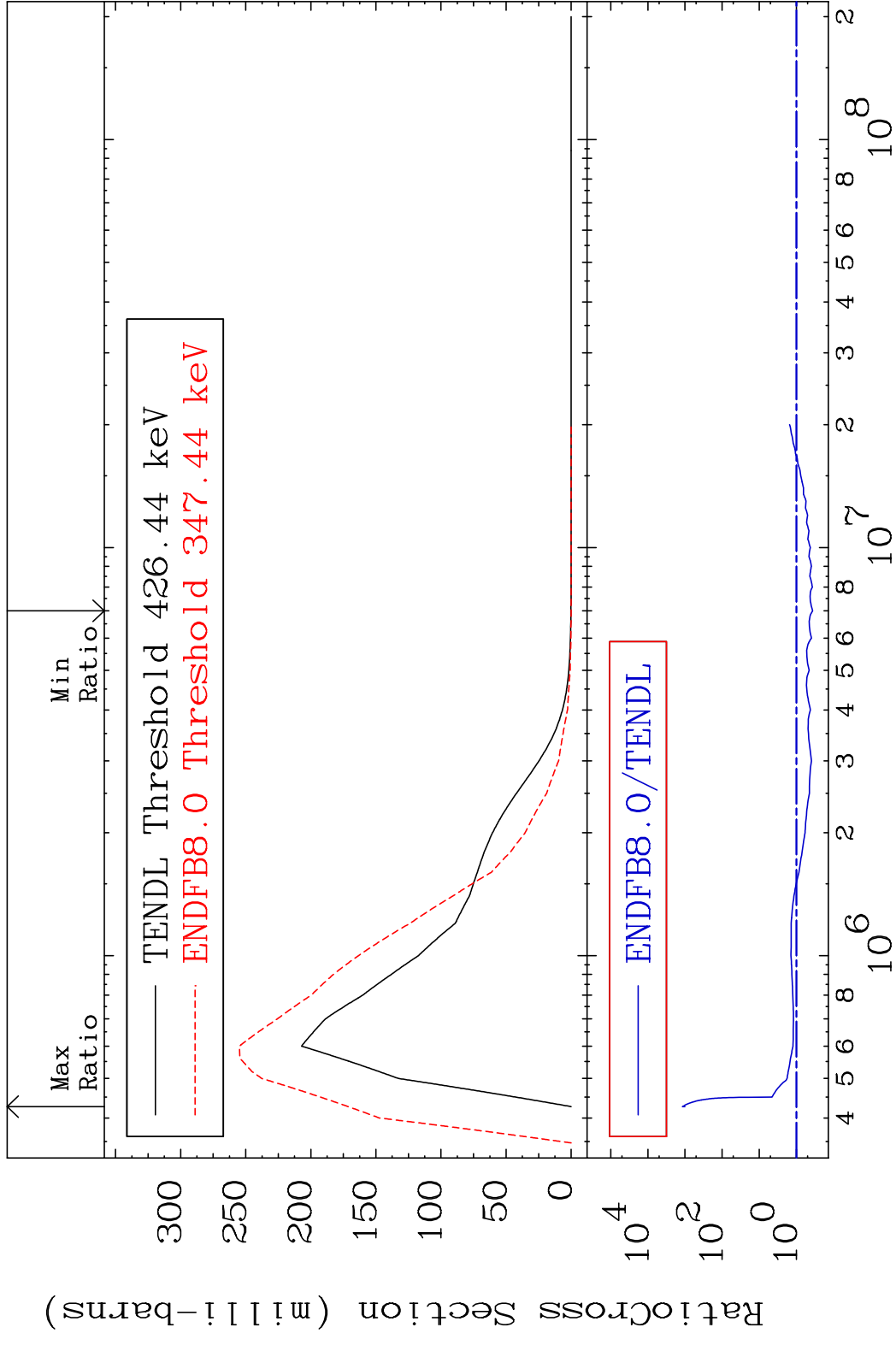
MAT 4440 MT= 53 (n, n') Level 44-Ru-101  
 Cross Section -72.69 To 8.325 %



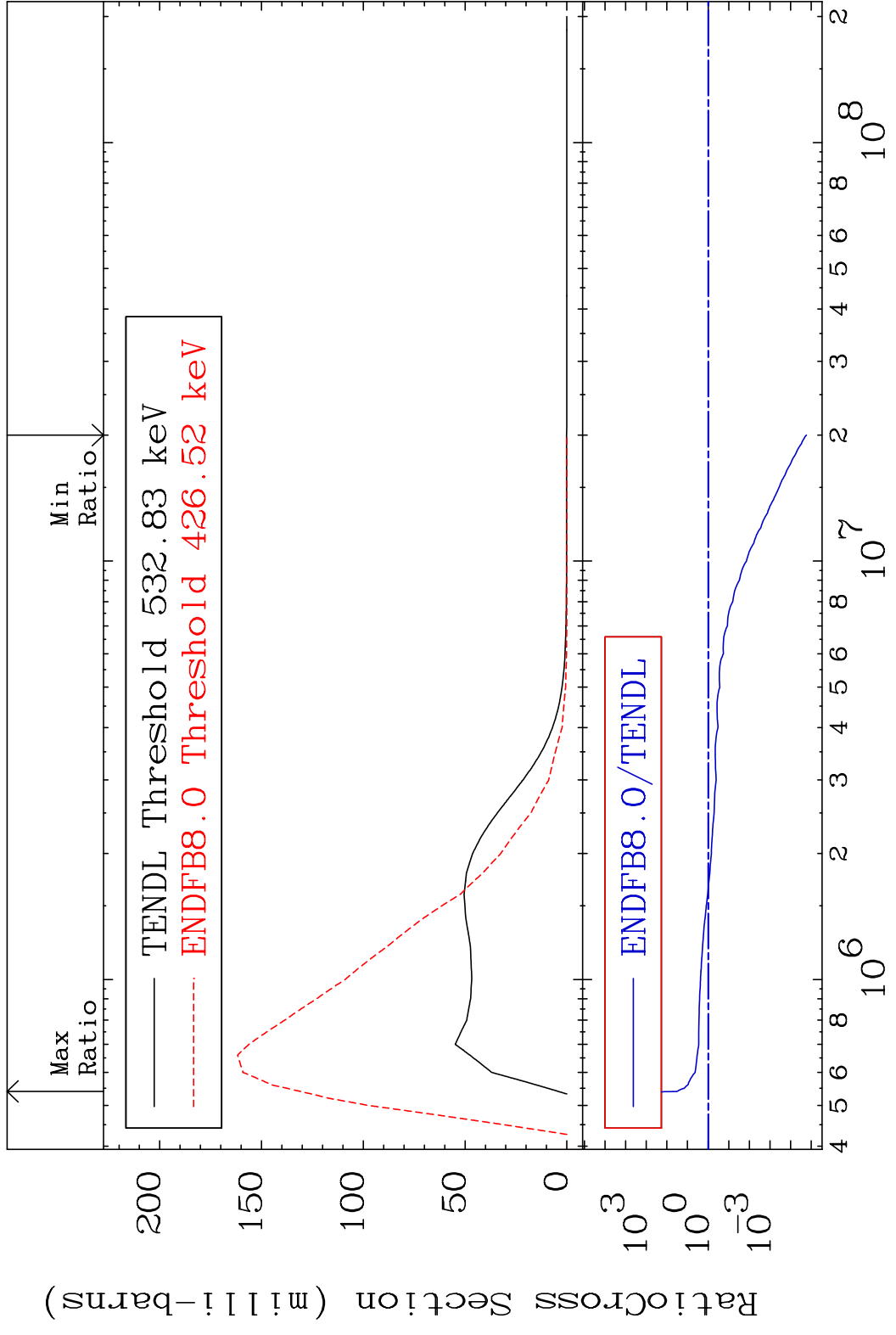
MAT 4440 MT= 54 (n, n') Level 44-Ru-101  
 Cross Section -71.72 To 10.36 %



MAT 4440 MT= 55 (n,n') Level 44-Ru-101  
 Cross Section -63.28 To 9999. %

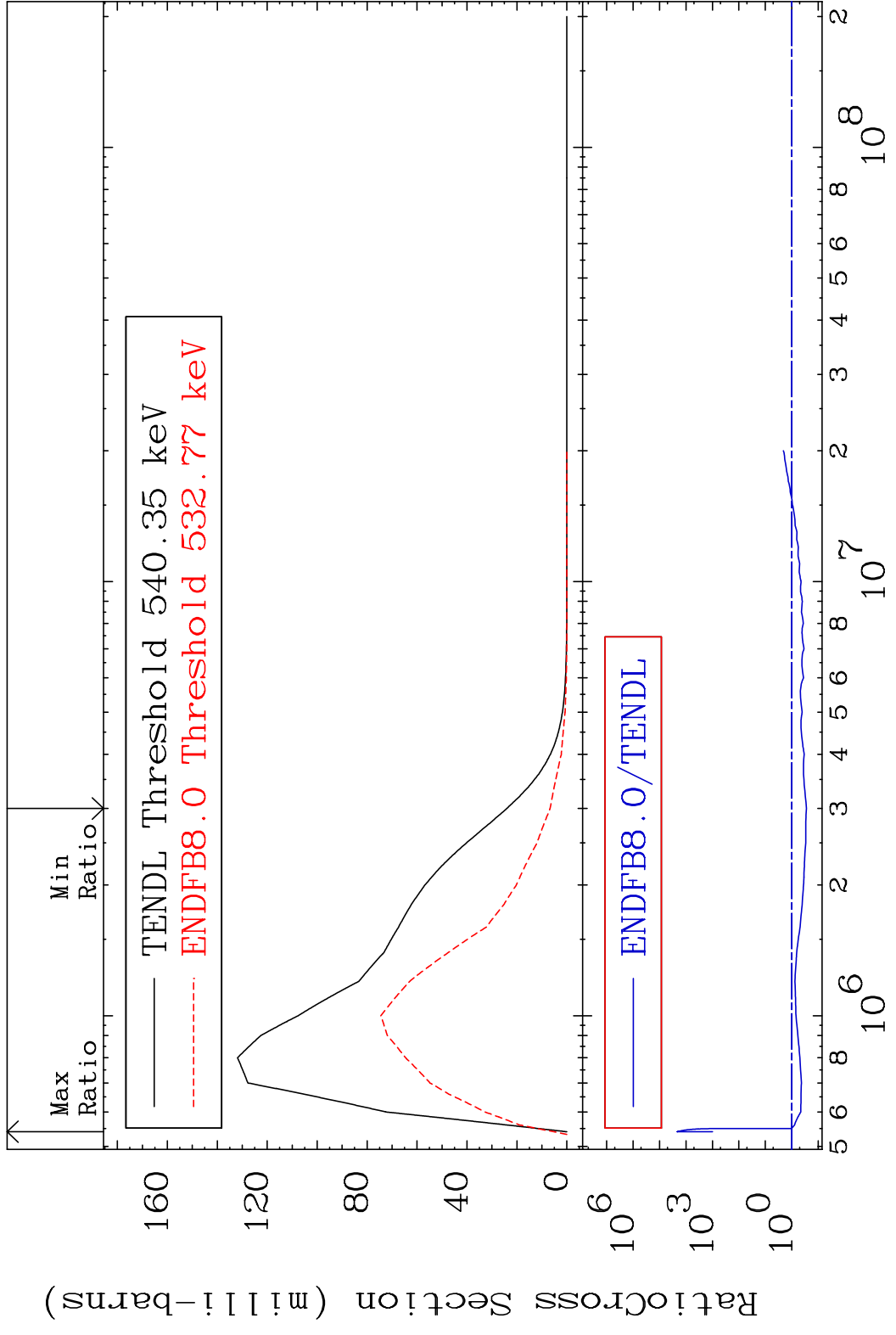


MAT 4440 MT= 56 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 3062. %

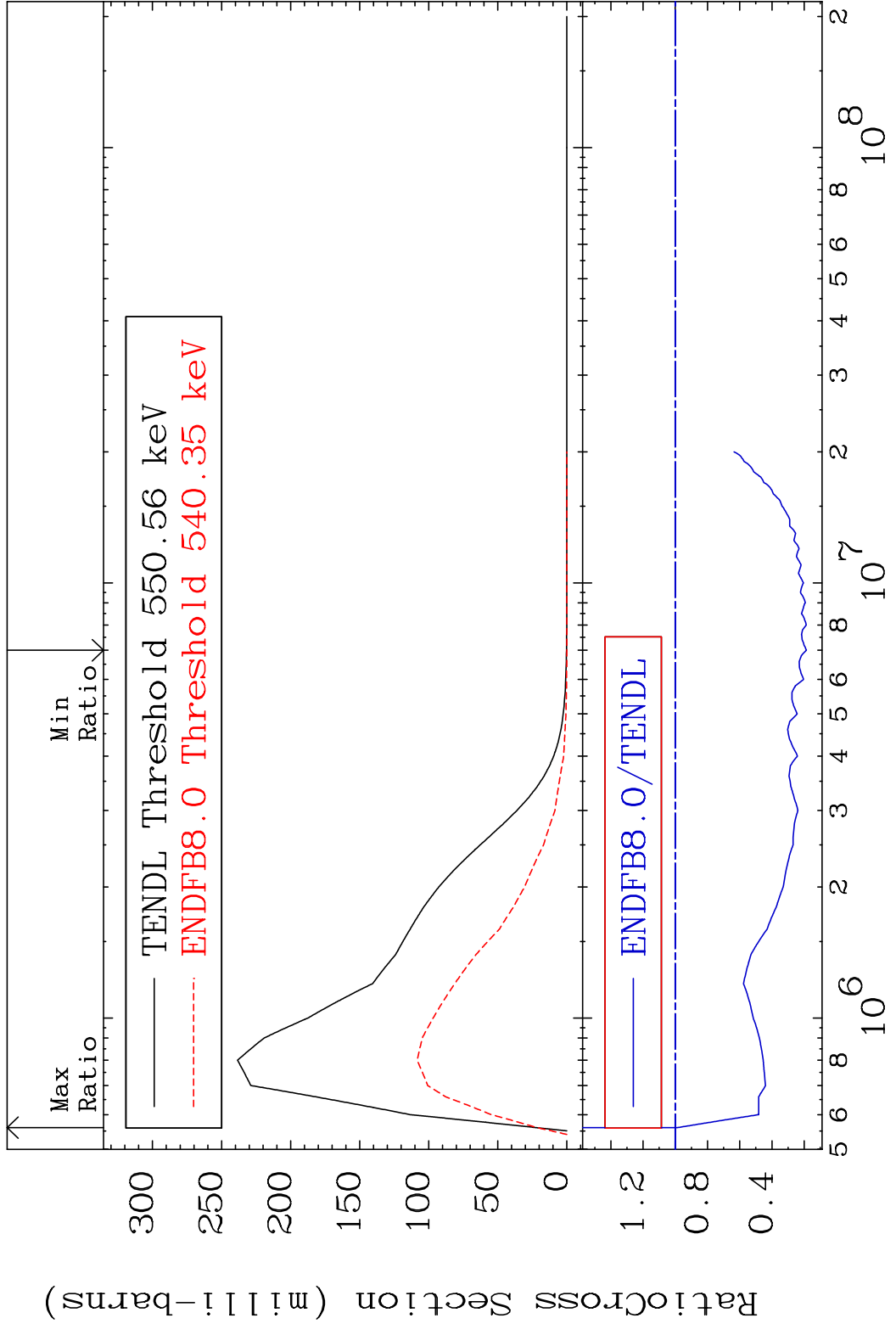




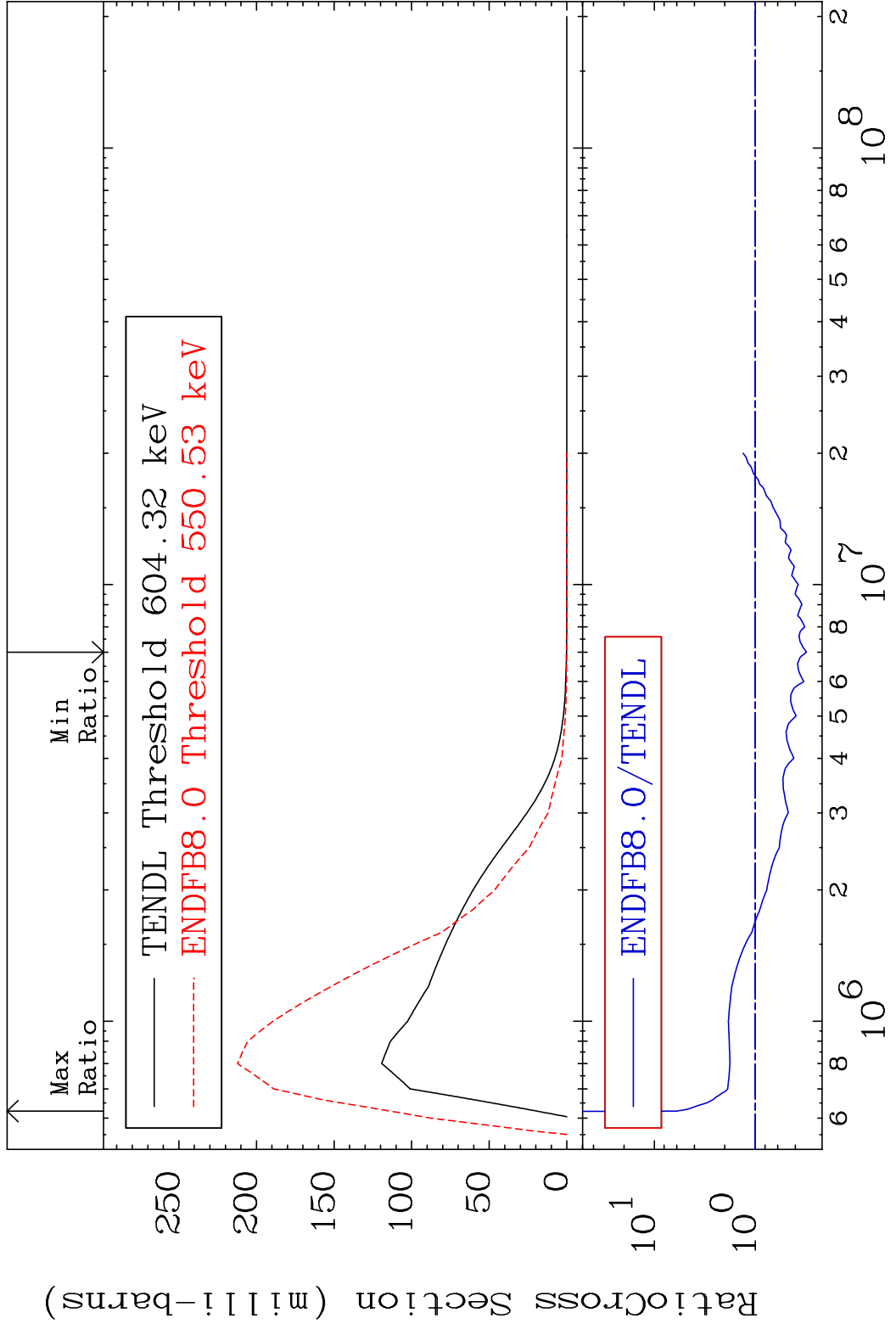
MAT 4440 MT= 57 (n,n') Level 44-Ru-101  
 Cross Section -72.11 To 9999. %



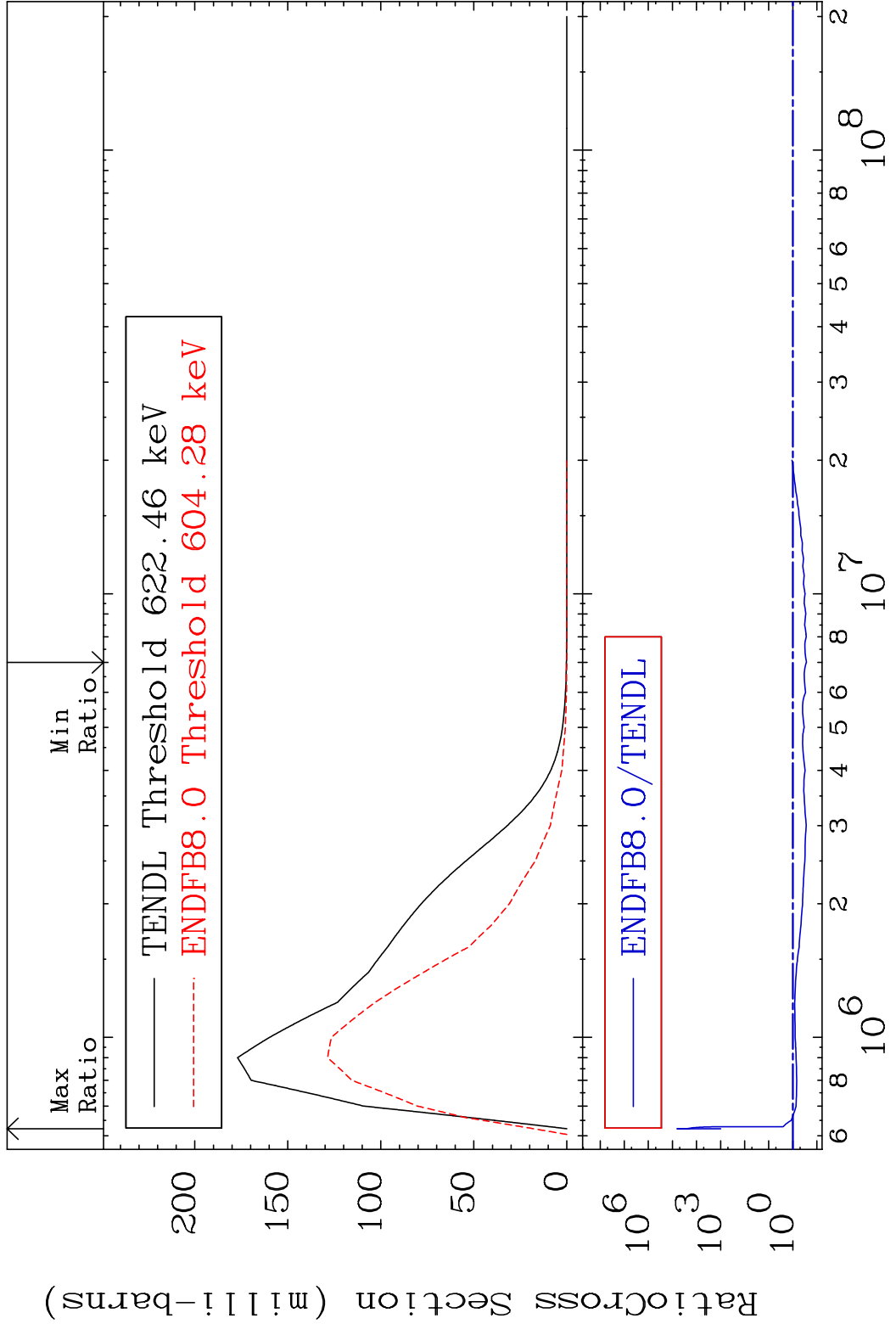
MAT 4440 MT= 58 (n, n') Level 44-Ru-101  
 Cross Section -81.39 To -1.182%



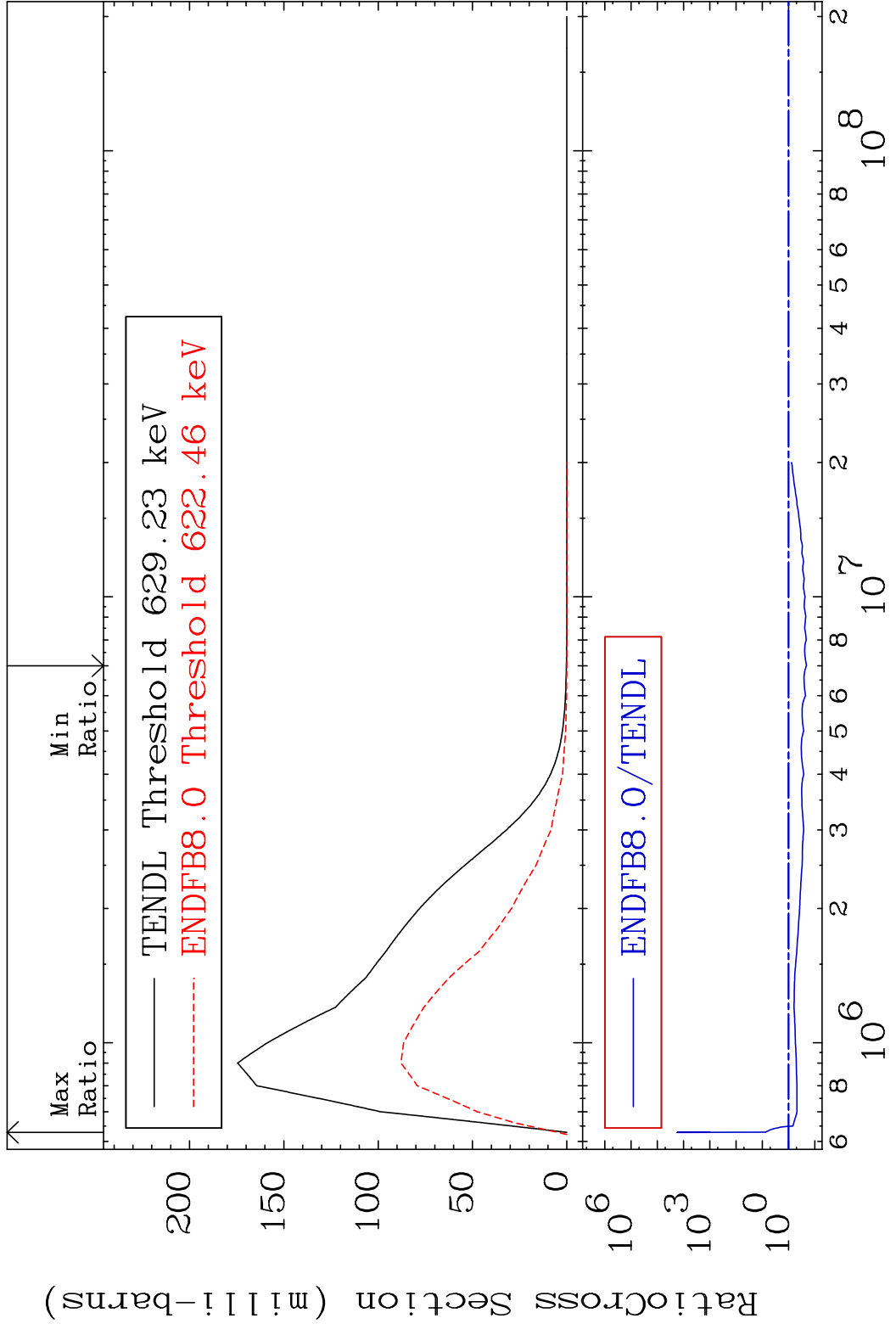
MAT 4440 MT= 59 (n,n') Level 44-Ru-101  
 Cross Section -68.90 To 493.6 %



MAT 4440 MT= 60 (n, n') Level 44-Ru-101  
 Cross Section -72.82 To 9999. %

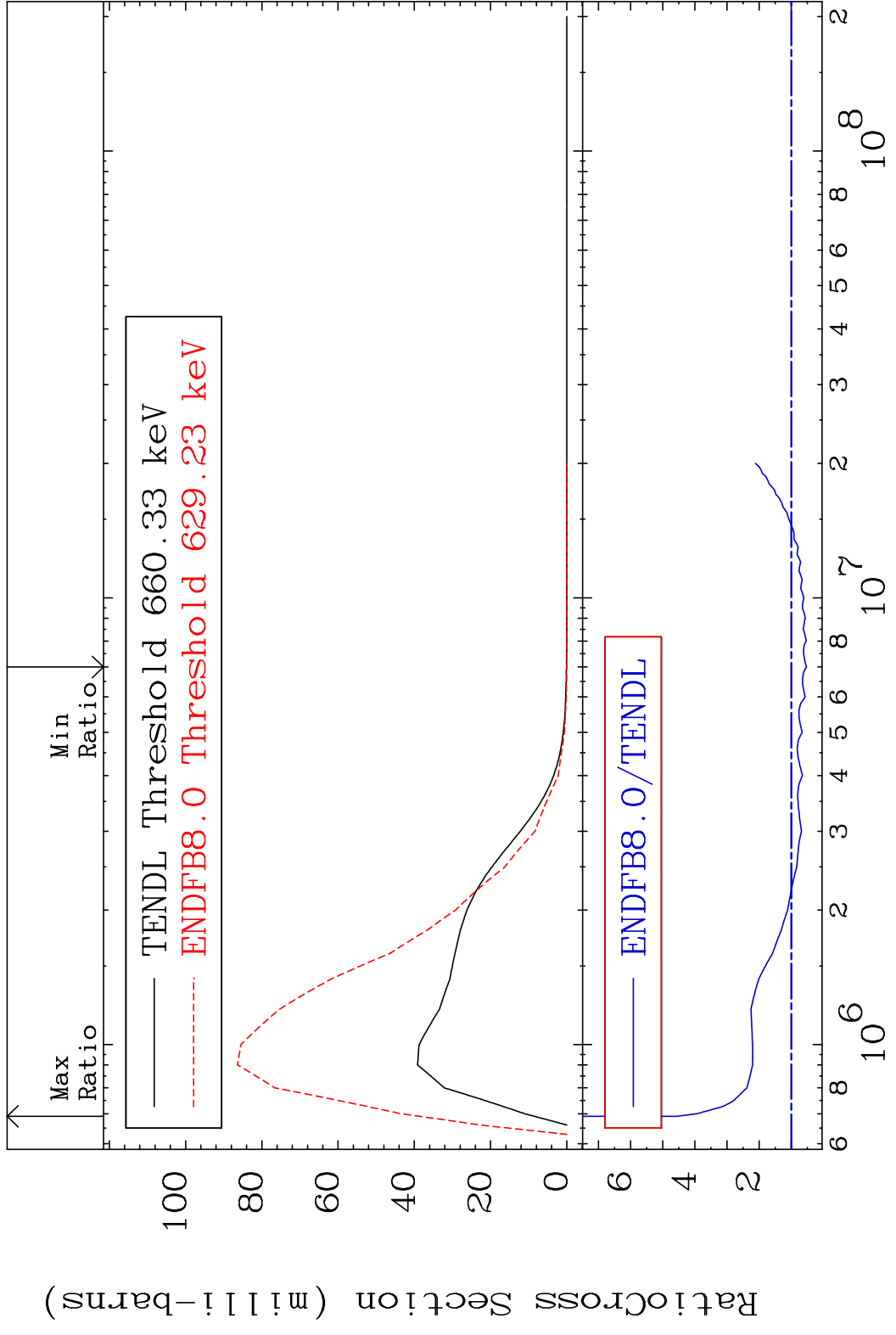


MAT 4440 MT= 61 (n, n') Level 44-Ru-101  
 Cross Section -79.15 To 9999. %

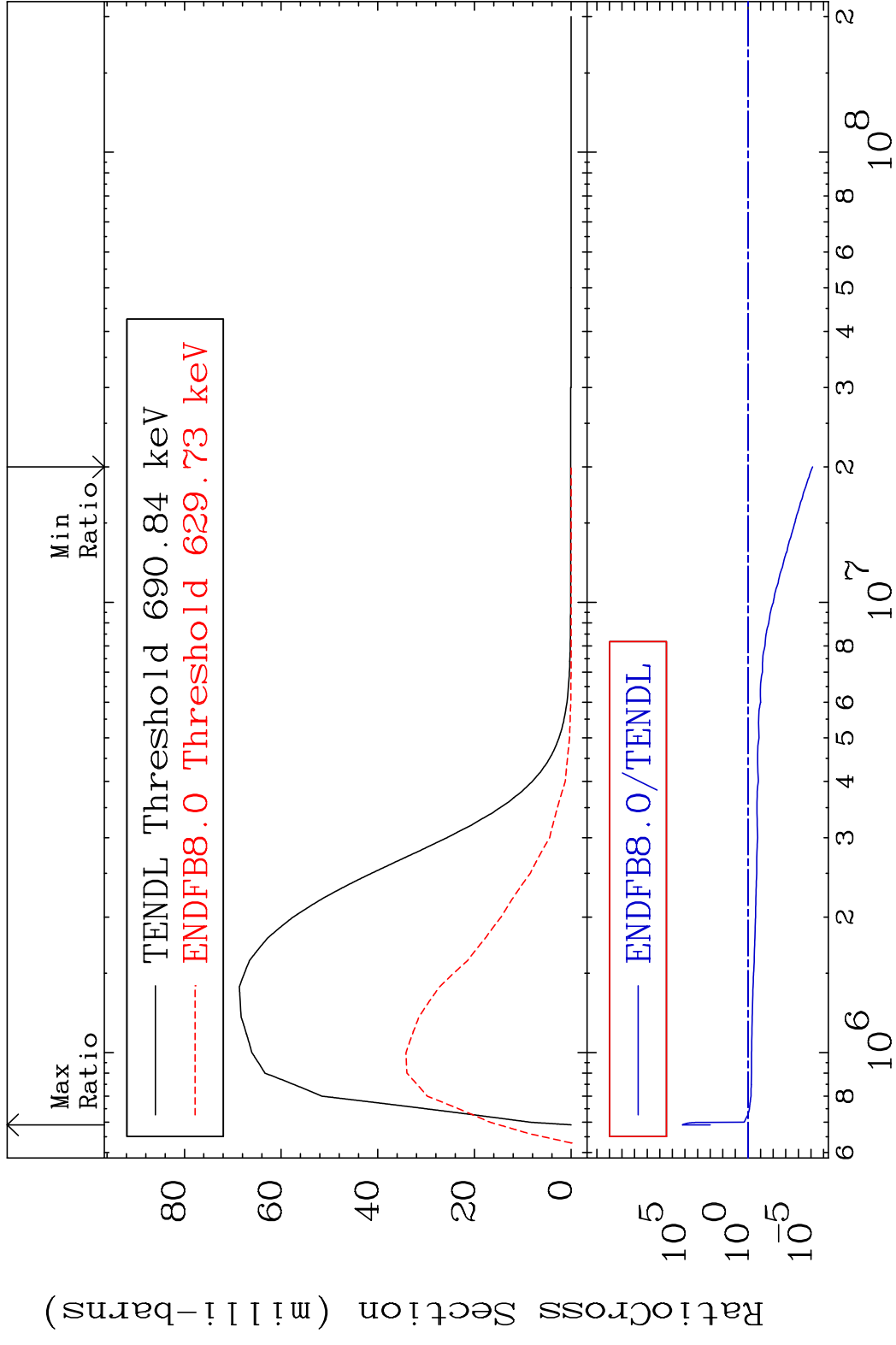


20 Incident Energy (eV) 44-Ru-101

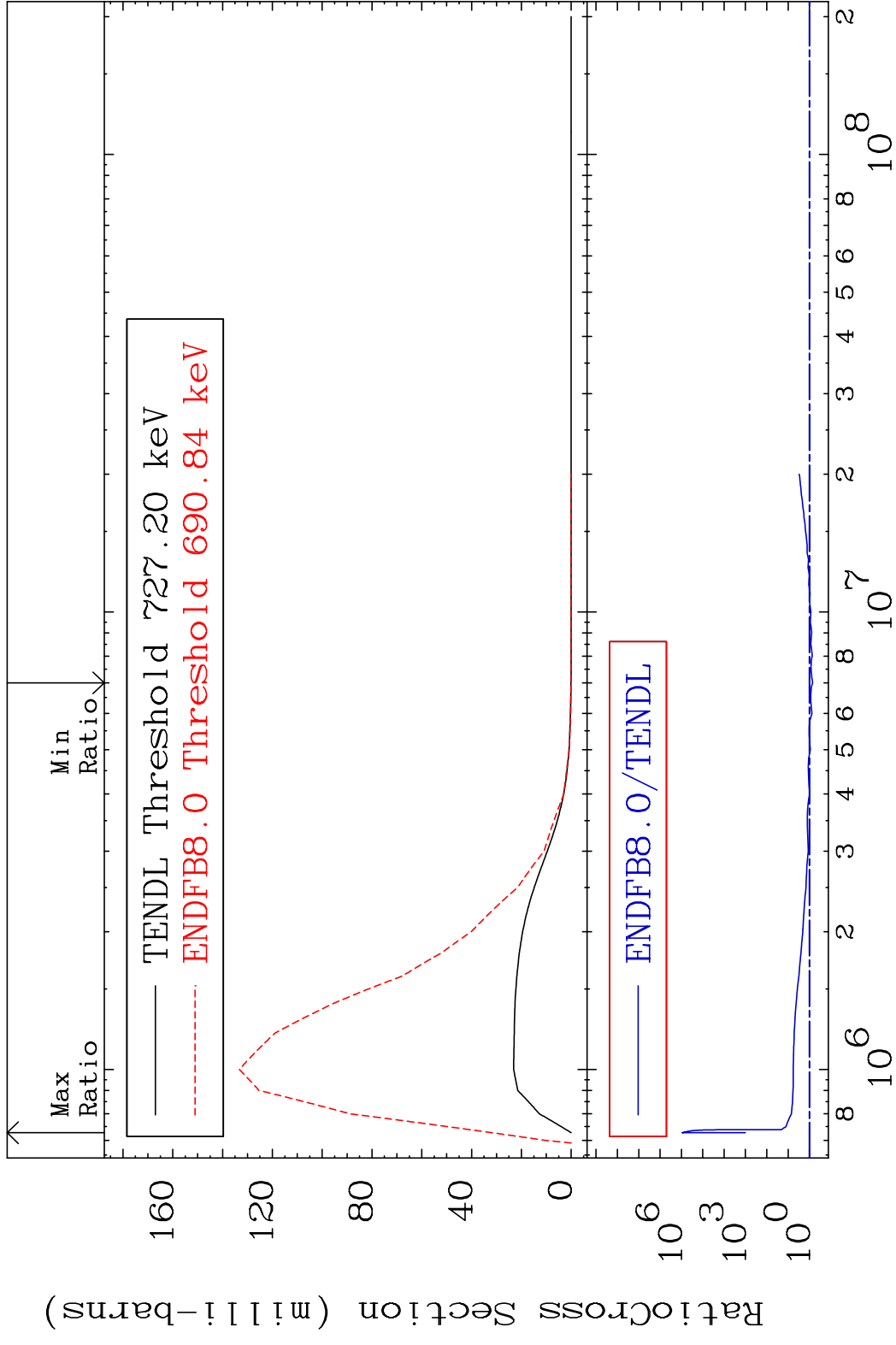
MAT 4440 MT= 62 (n,n') Level 44-Ru-101  
 Cross Section -47.10 To 355.0 %



MAT 4440 MT= 63 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 9999. %

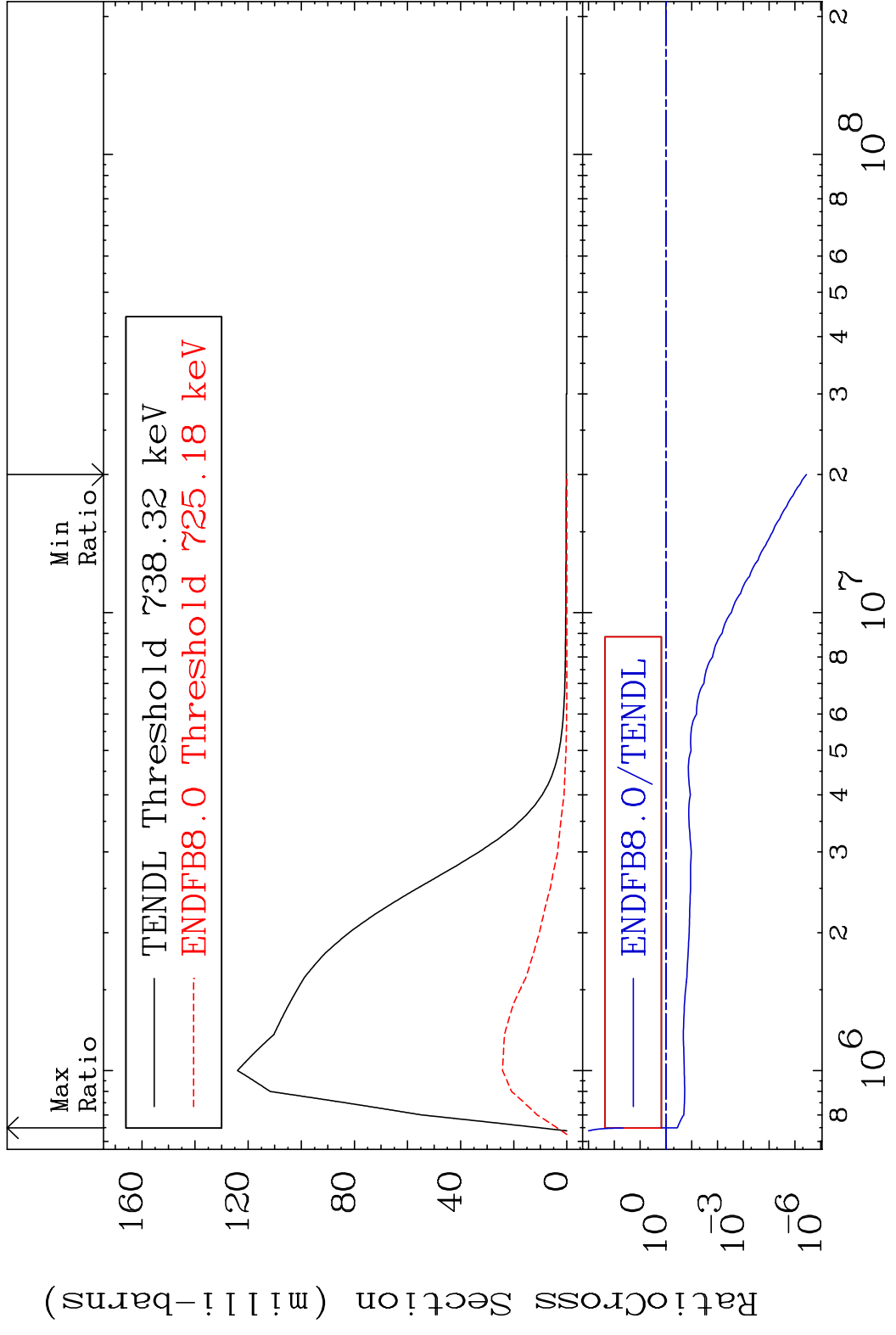


MAT 4440 MT= 64 (n, n') Level 44-Ru-101  
 Cross Section -28.55 To 9999. %

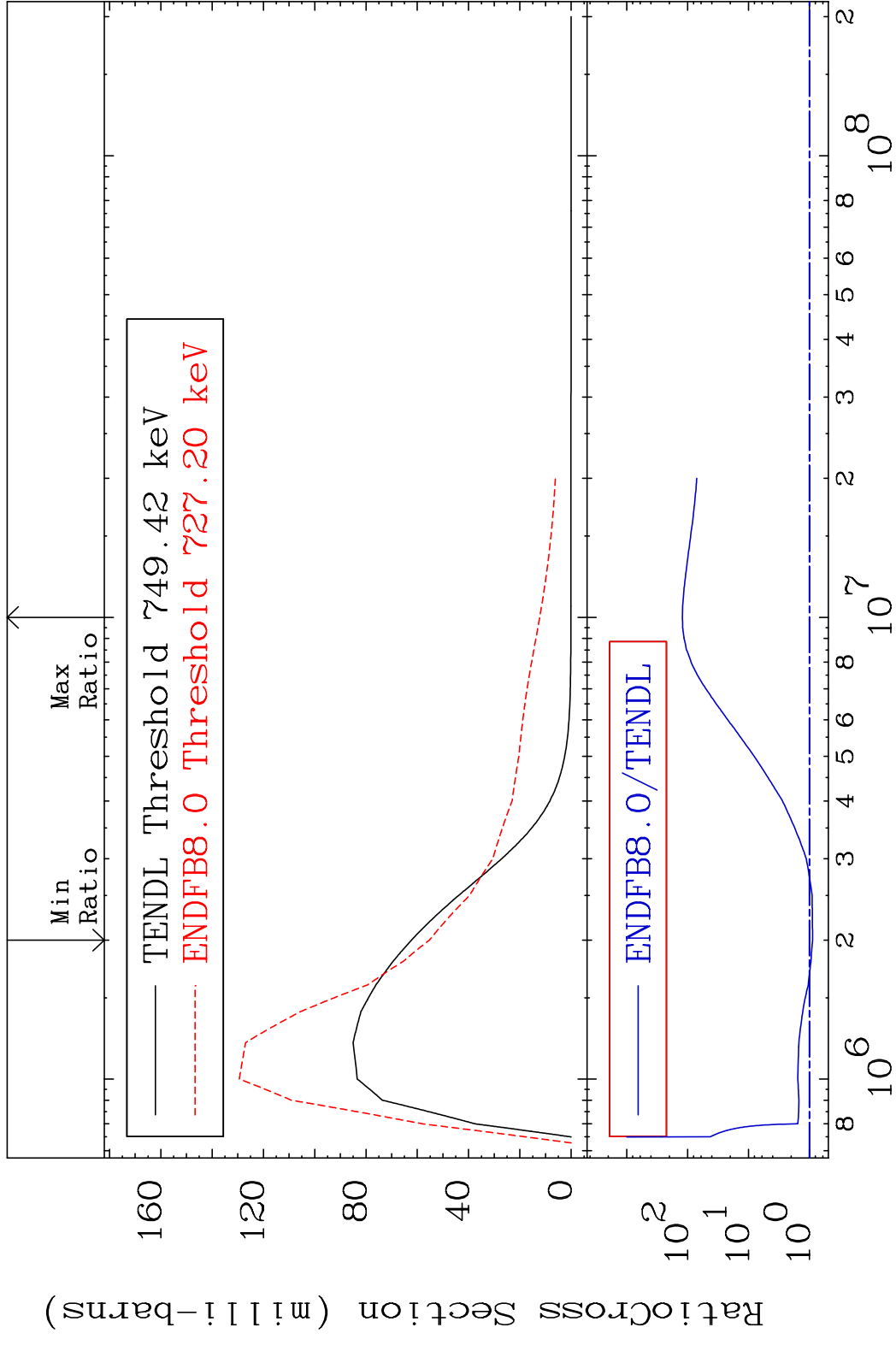




MAT 4440 MT= 65 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To -63.25%

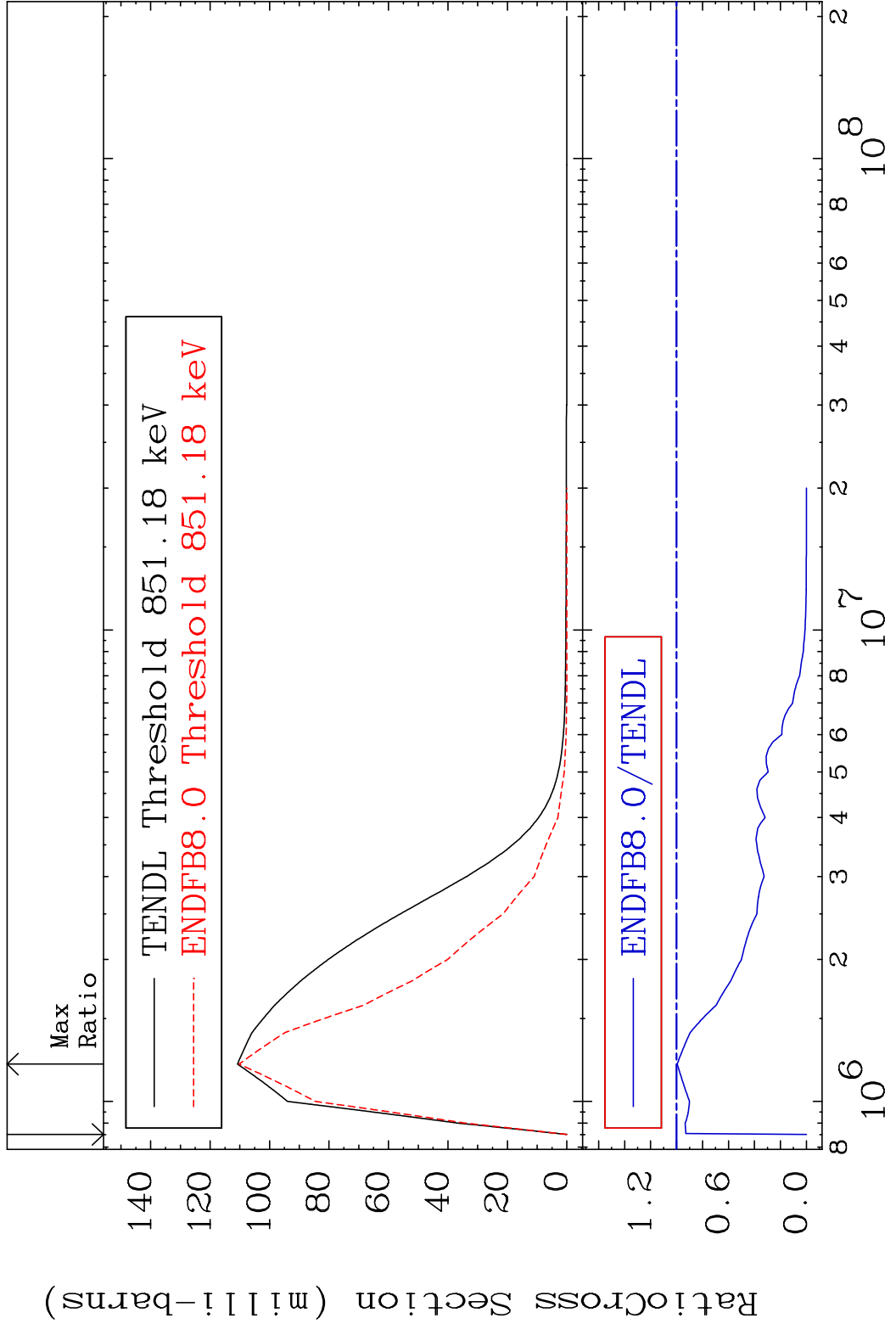


MAT 4440 MT= 66 (n, n') Level 44-Ru-101  
 Cross Section -11.26 To 9999. %

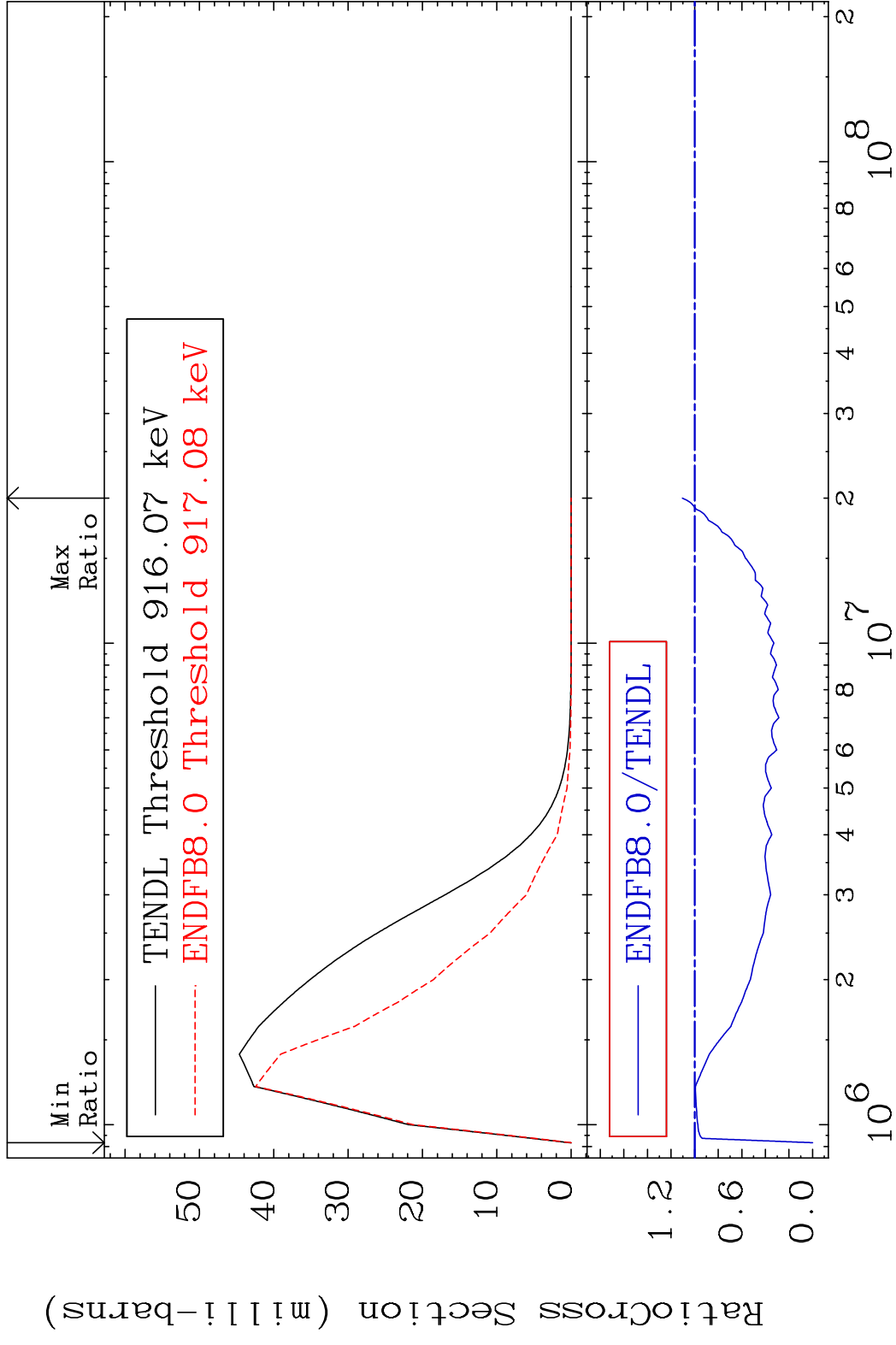




MAT 4440 MT= 68 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To -0.468%

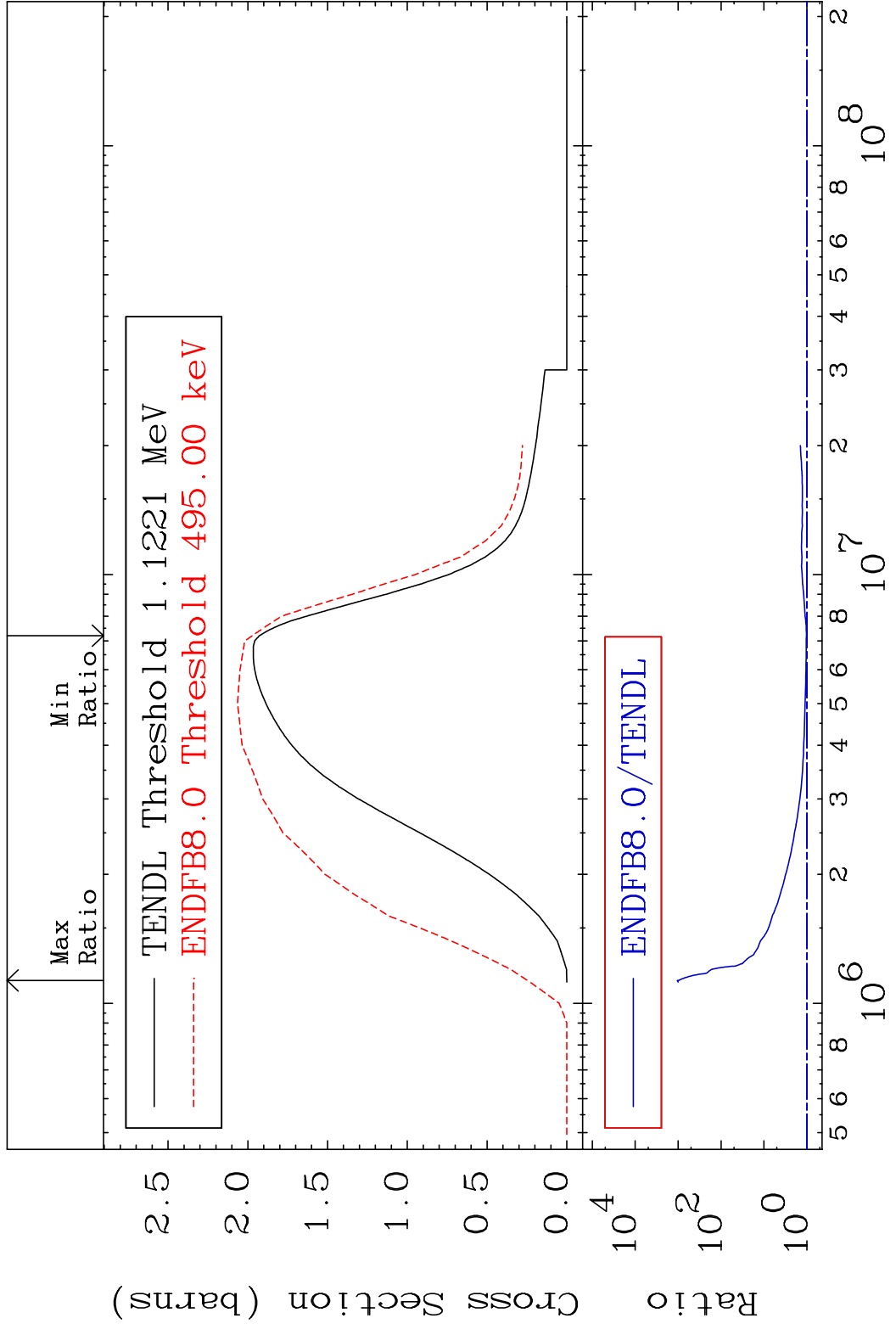


MAT 4440 MT= 69 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 10.42 %



28 Incident Energy (eV) 44-Ru-101

MAT 4440 (n,n') Continuum 44-Ru-101  
 Cross Section 2.336 To 9999. %

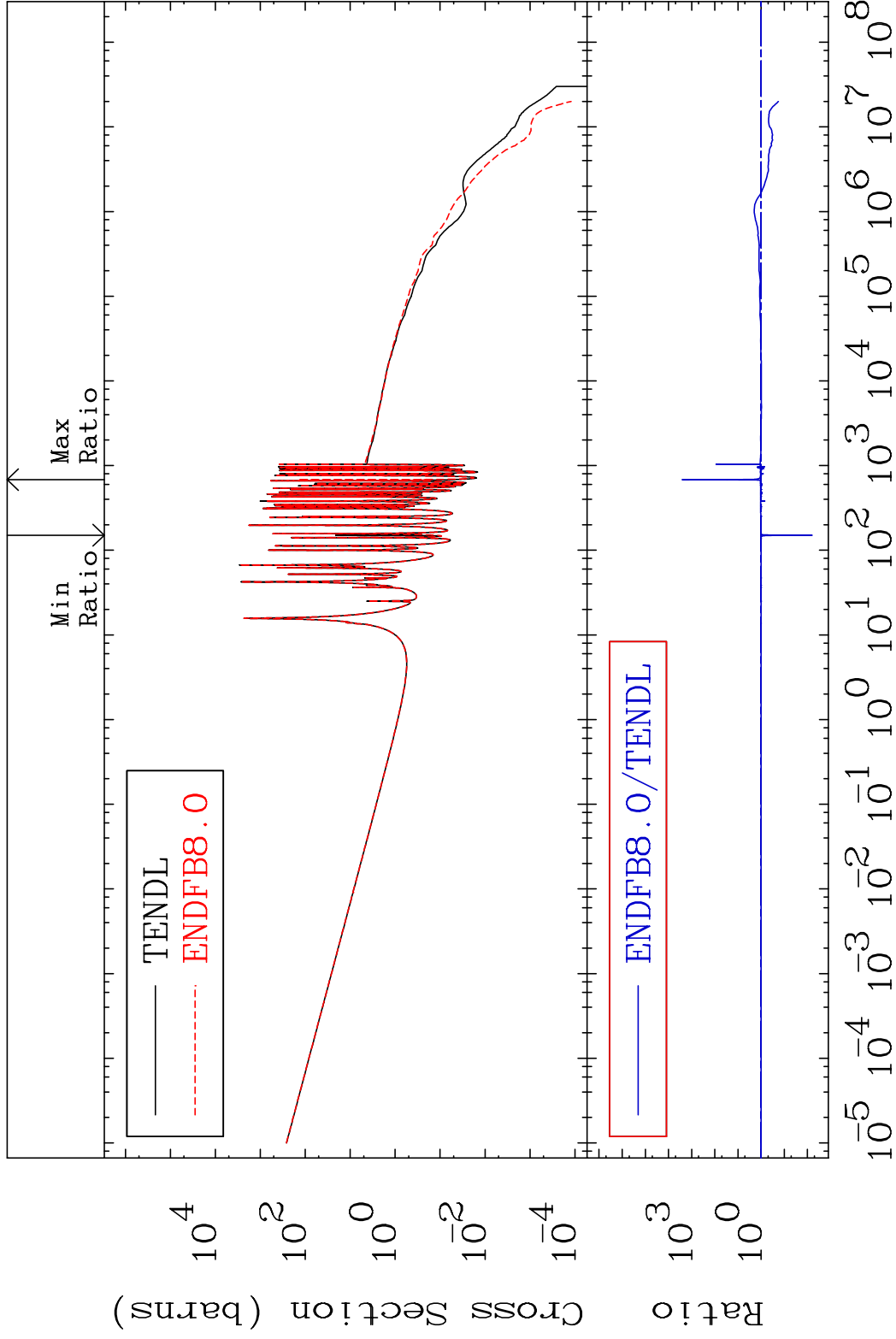


MAT 4440

(n,  $\gamma$ )

44-Ru-101

Cross Section -99.40 To 9999. %

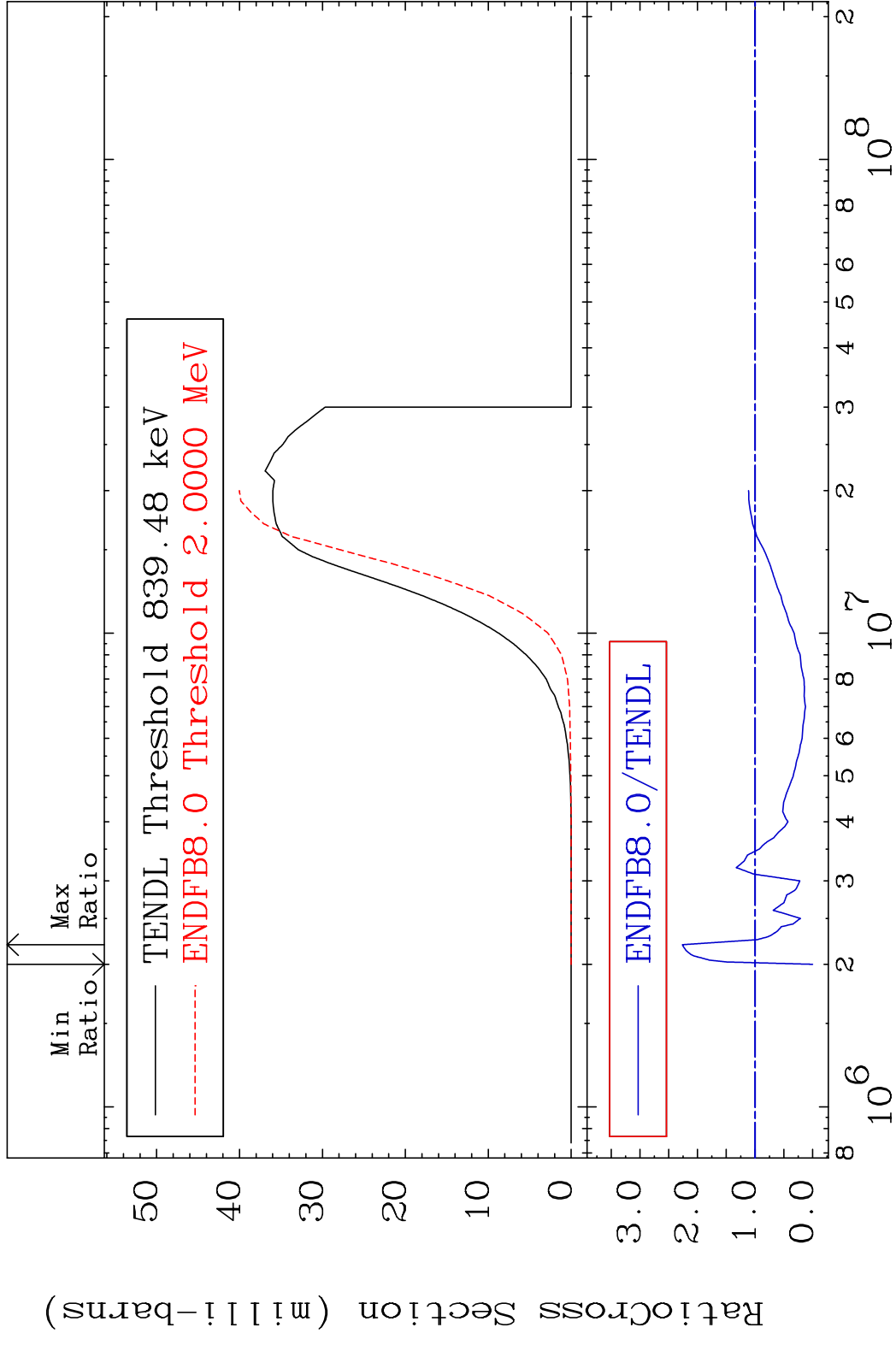


30

Incident Energy (eV)

44-Ru-101

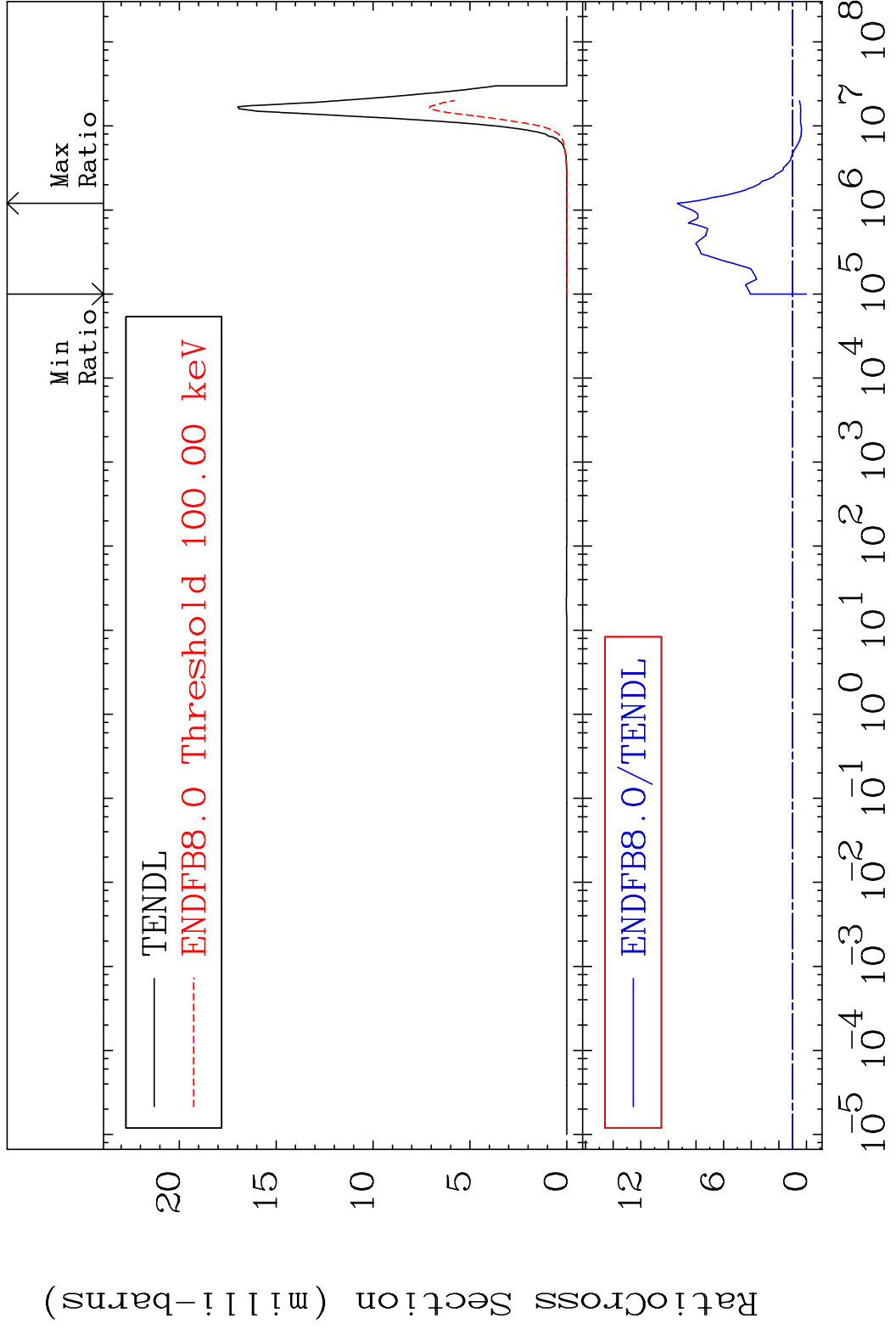
MAT 4440 (n,p) 44-Ru-101  
 Cross Section -100.0 To 126.4 %



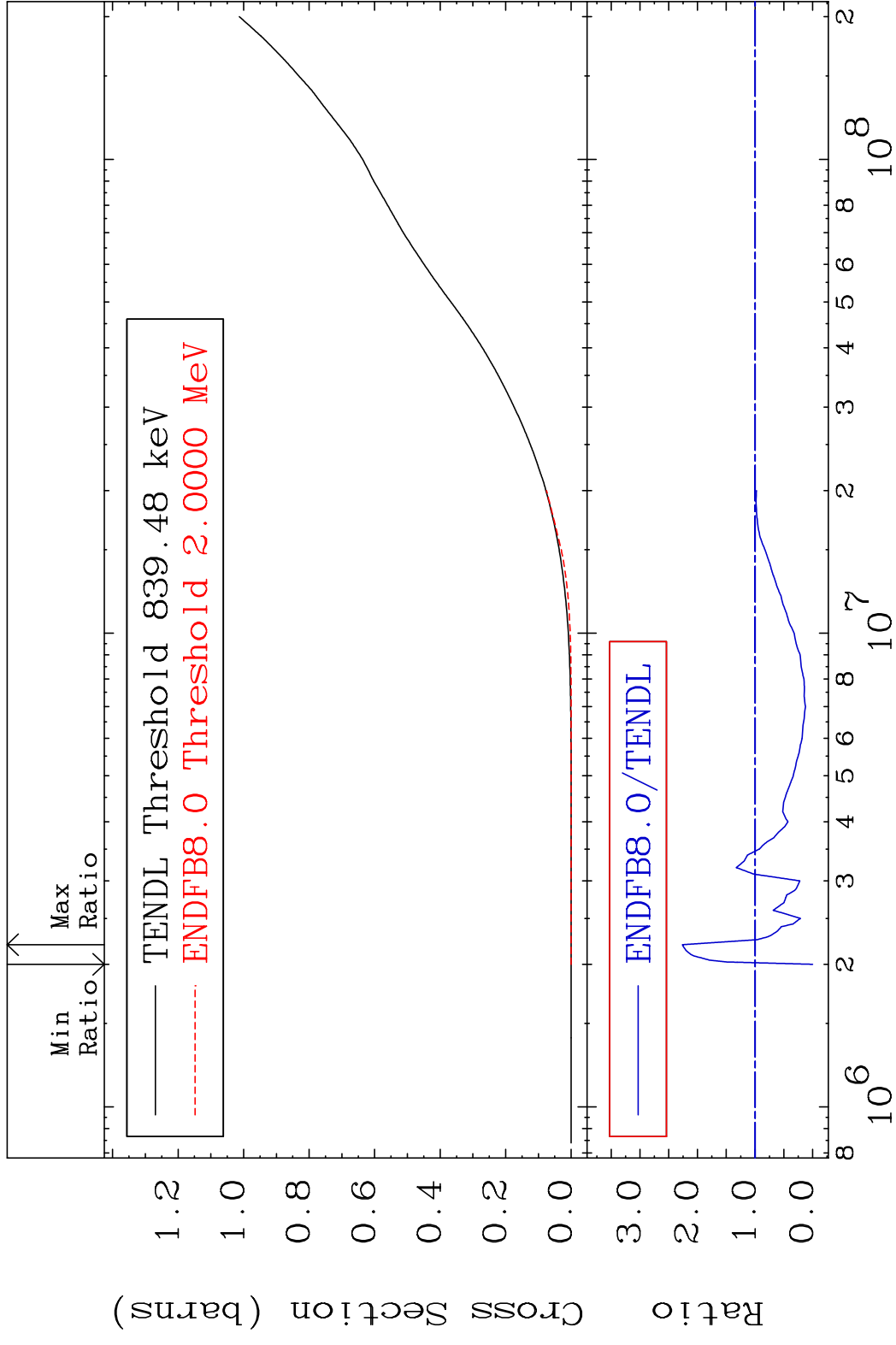
31 Incident Energy (eV) 44-Ru-101



MAT 4440 (n,  $\alpha$ ) 44-Ru-101  
 Cross Section -100.0 To 836.4 %



MAT 4440 Hydrogen Production 44-Ru-101  
 Cross Section -100.0 To 126.4 %

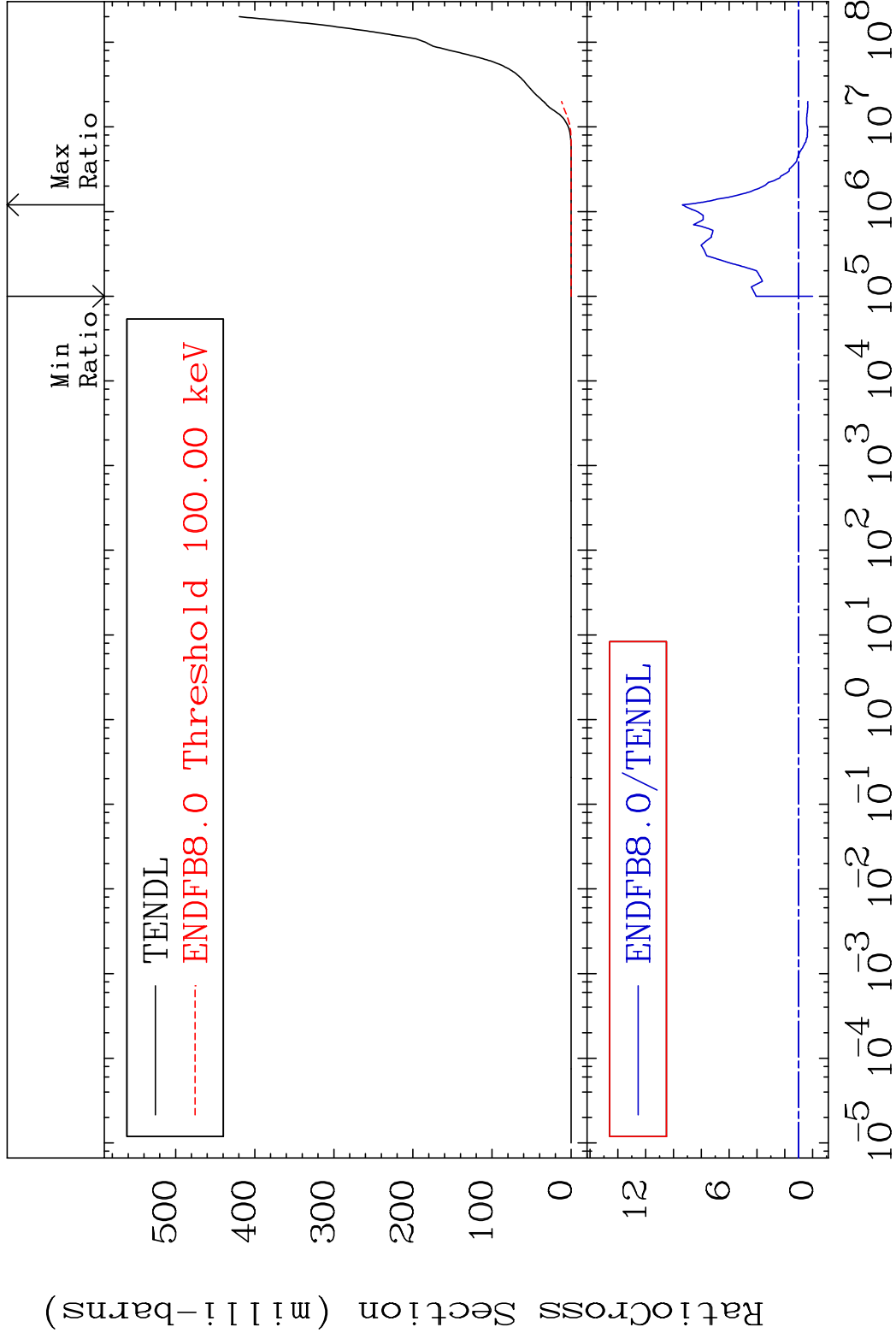


MAT 4440

He-4 Production

44-Ru-101

Cross Section -100.0 To 836.4 %

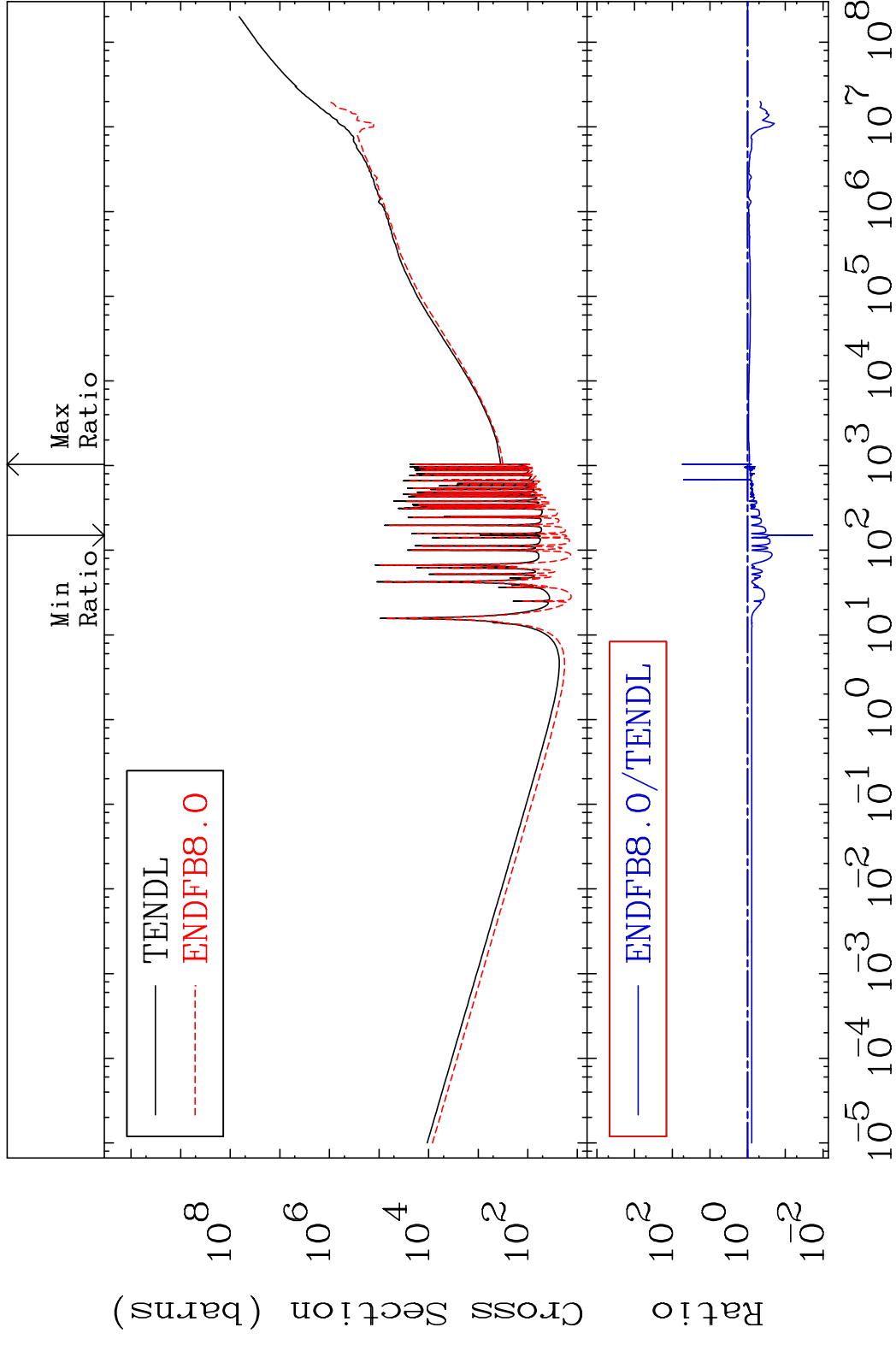


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Incident Energy (eV)

44-Ru-101

MAT 4440 Kerma total (eV-barns) 44-Ru-101  
 Cross Section -98.10 To 5296. %

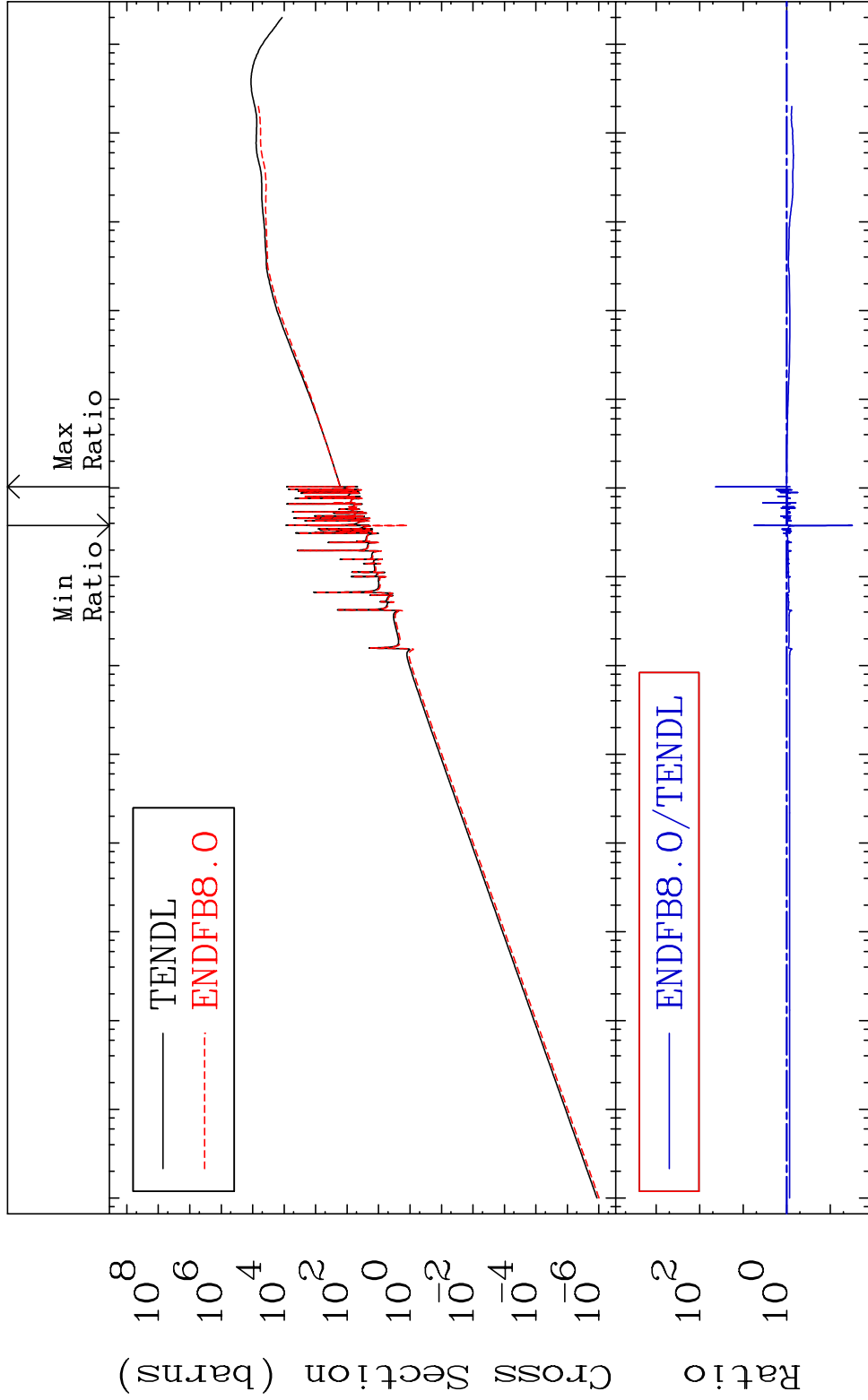


MAT 4440

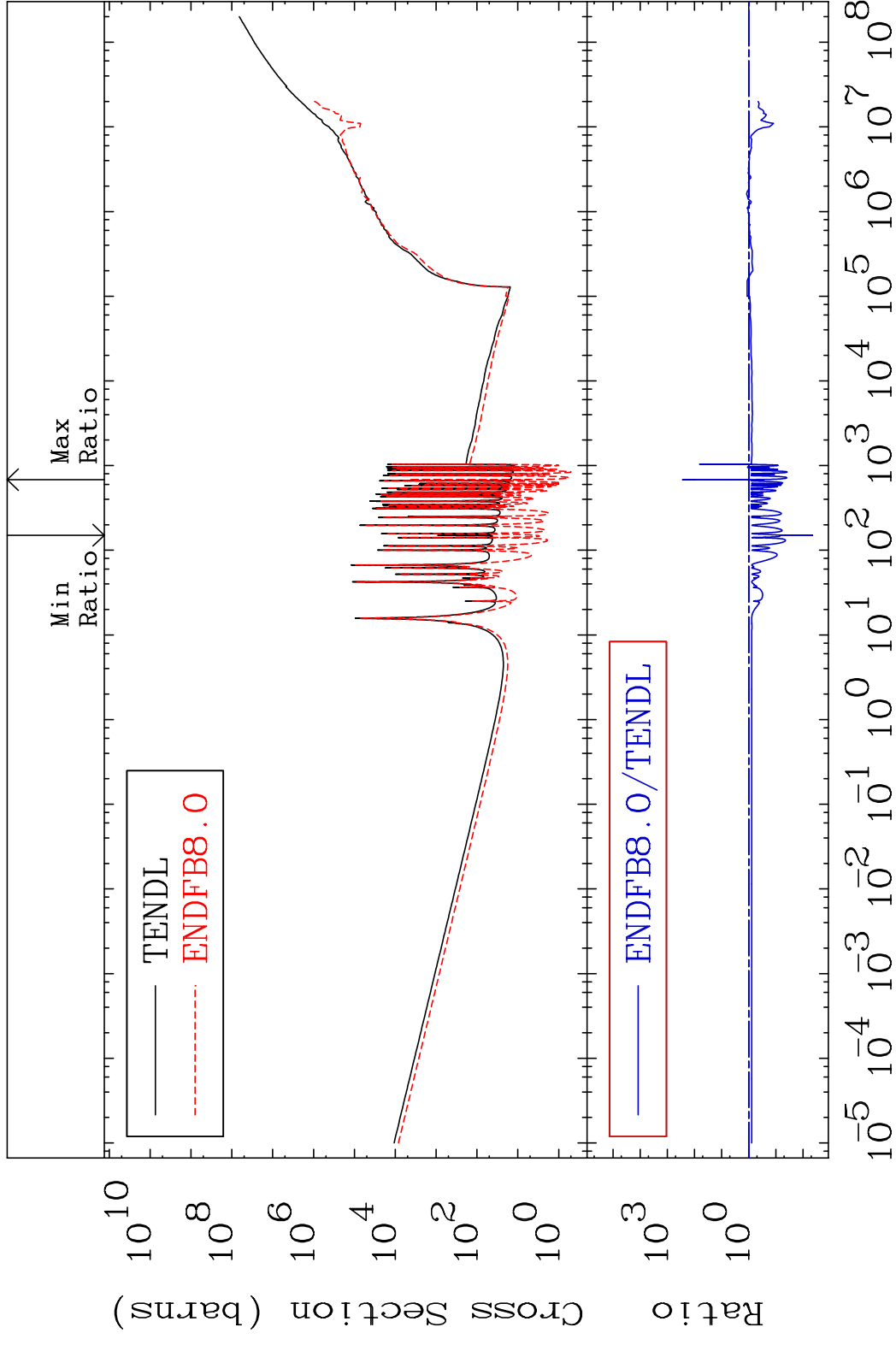
Kerma elastic

44-Ru-101

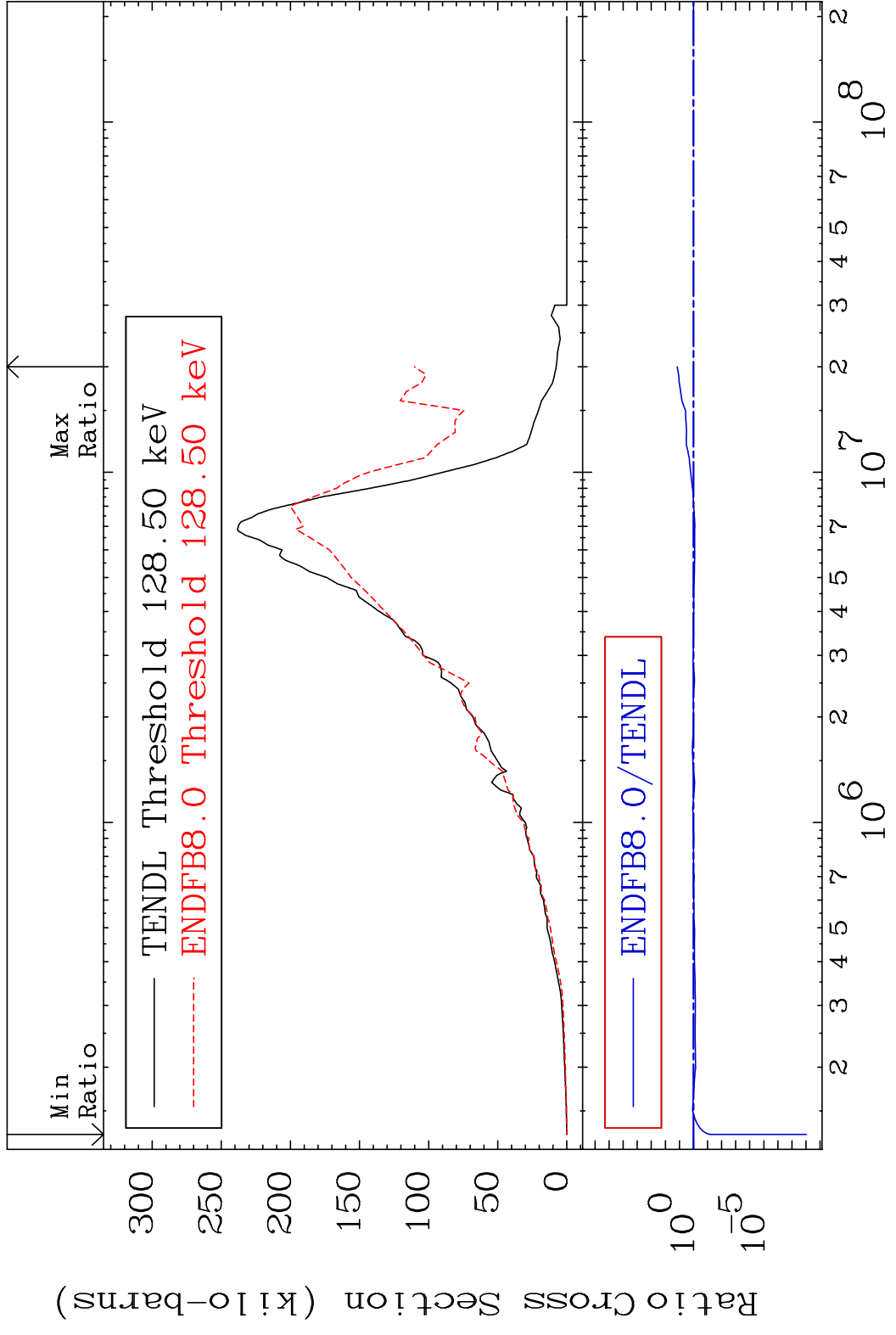
Cross Section -96.85 To 4192. %



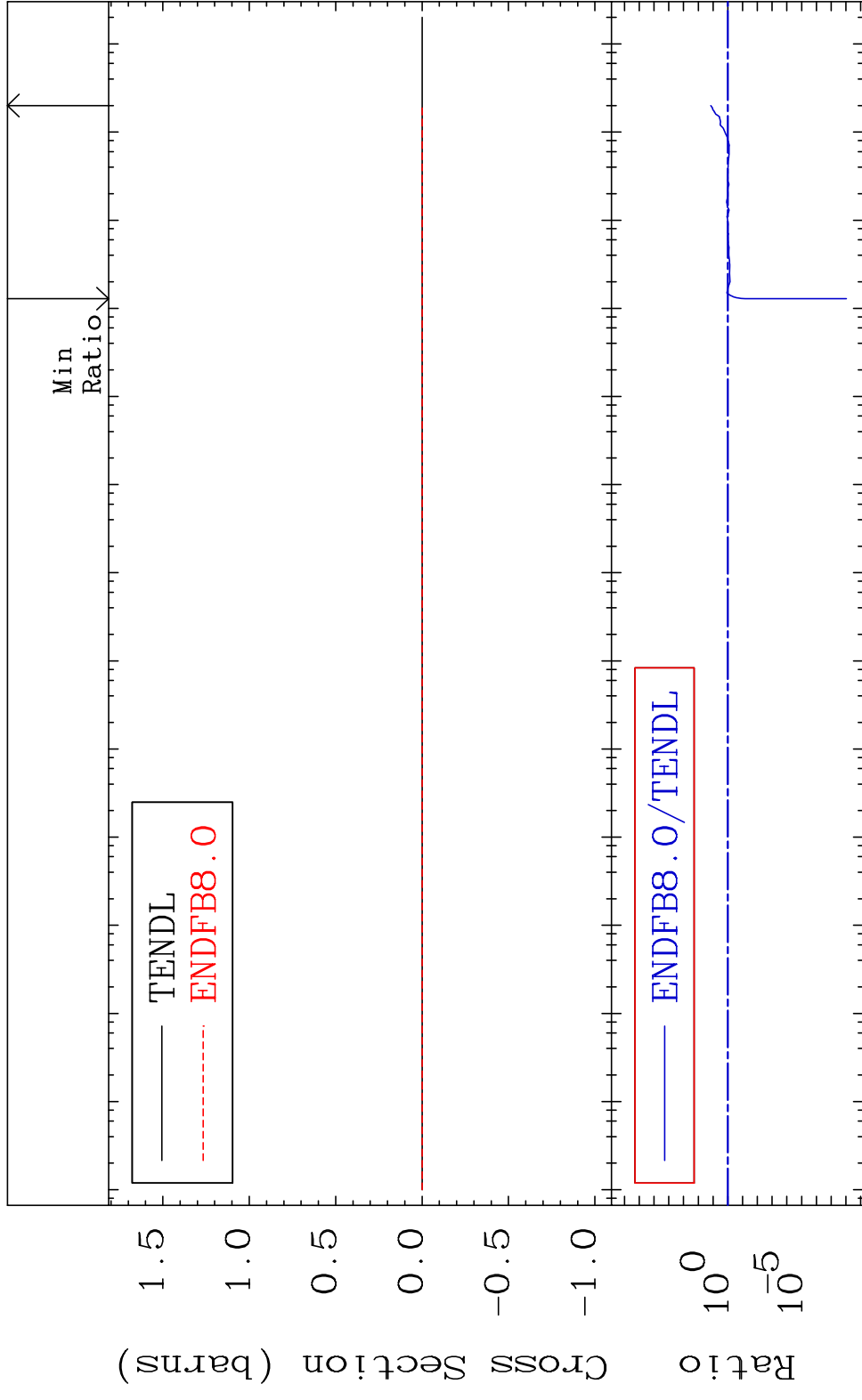
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101  
 Cross Section -99.55 To 9999. %



MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101  
 Cross Section -100.0 To 1339. %



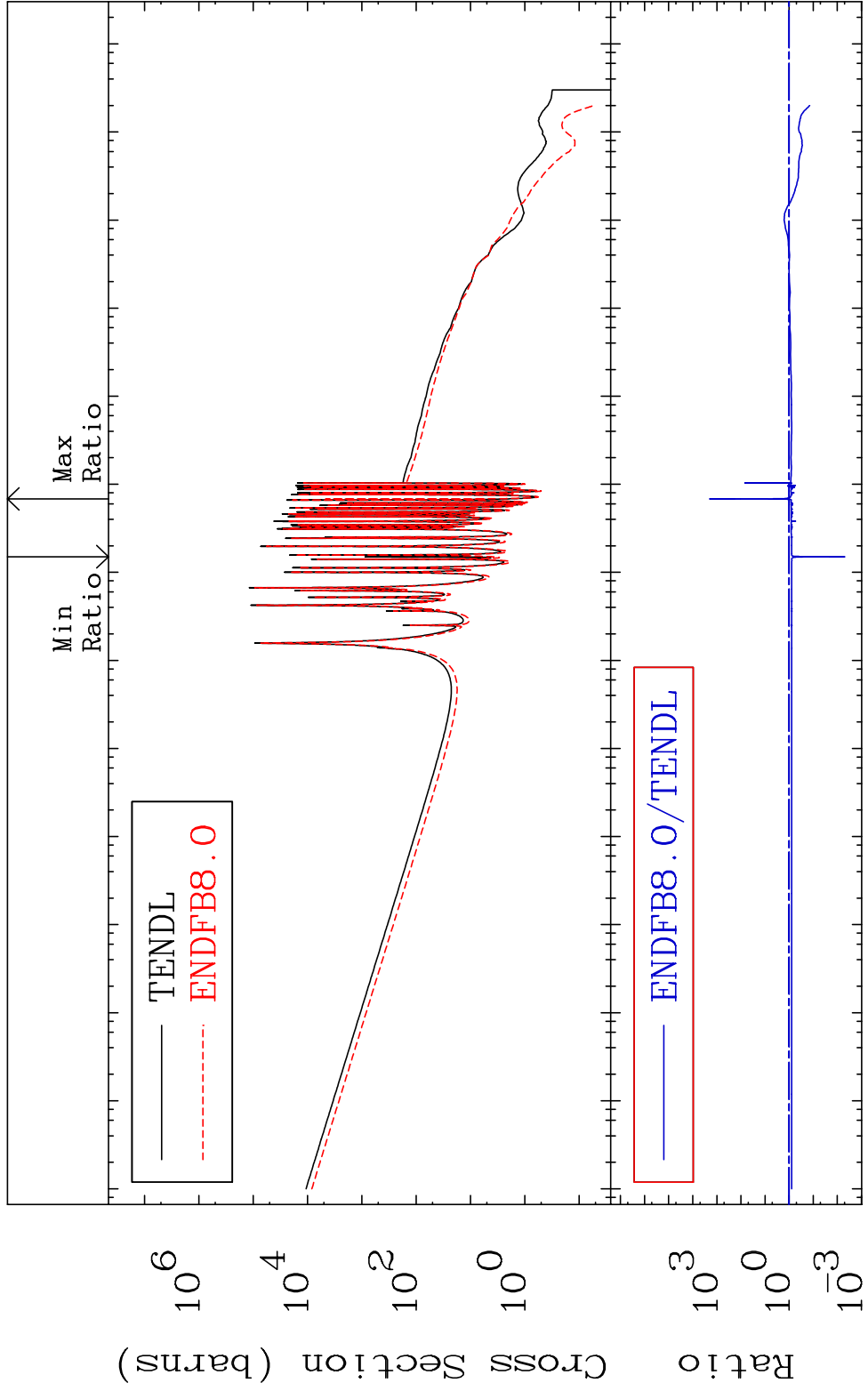
MAT 4440 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-101  
 Cross Section -100.0 To 1339. %





MAT 4440

Kerma capture (mt102) 44-Ru-101  
Cross Section -99.53 To 9999. %



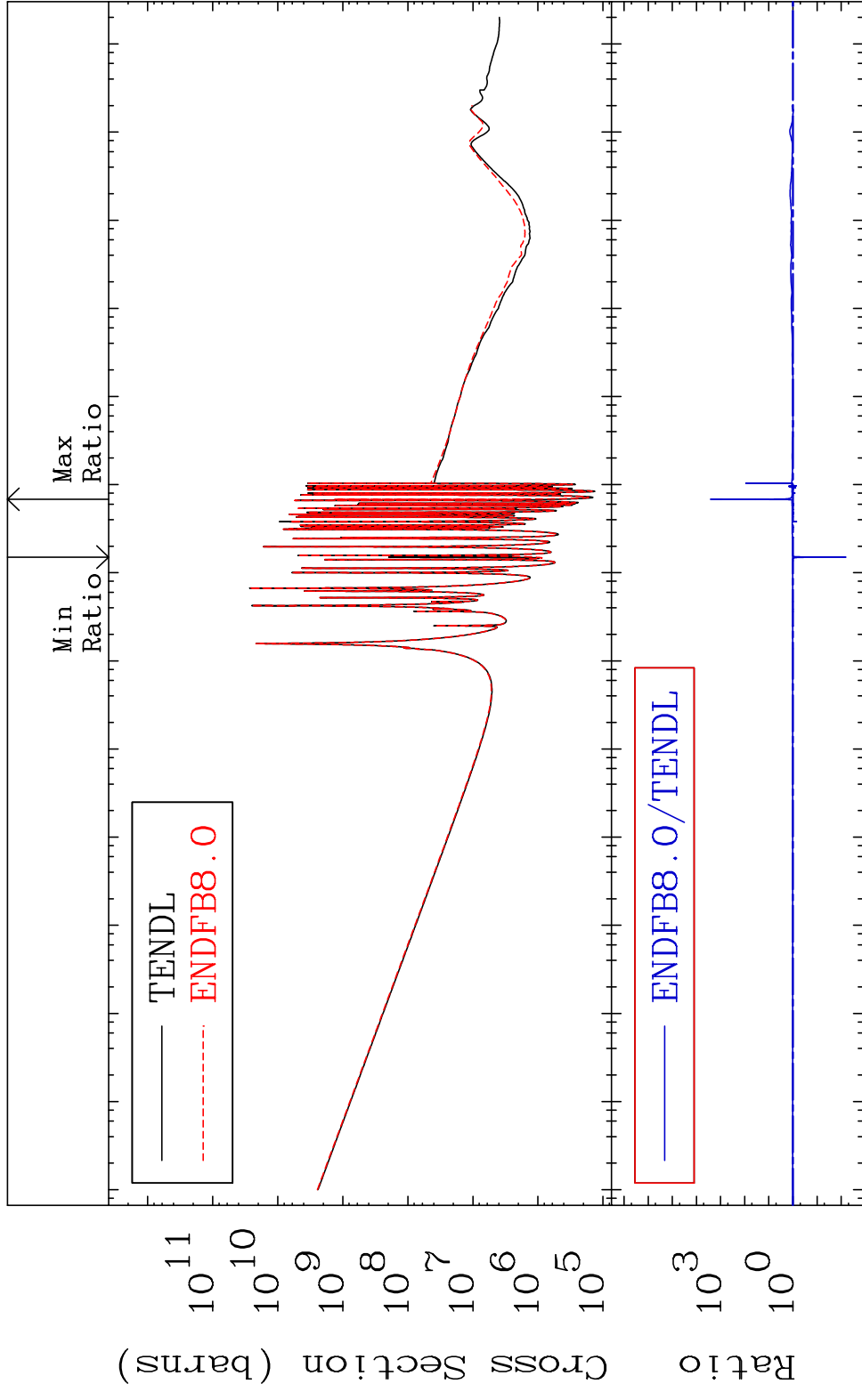
Ratio  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-3</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8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

40

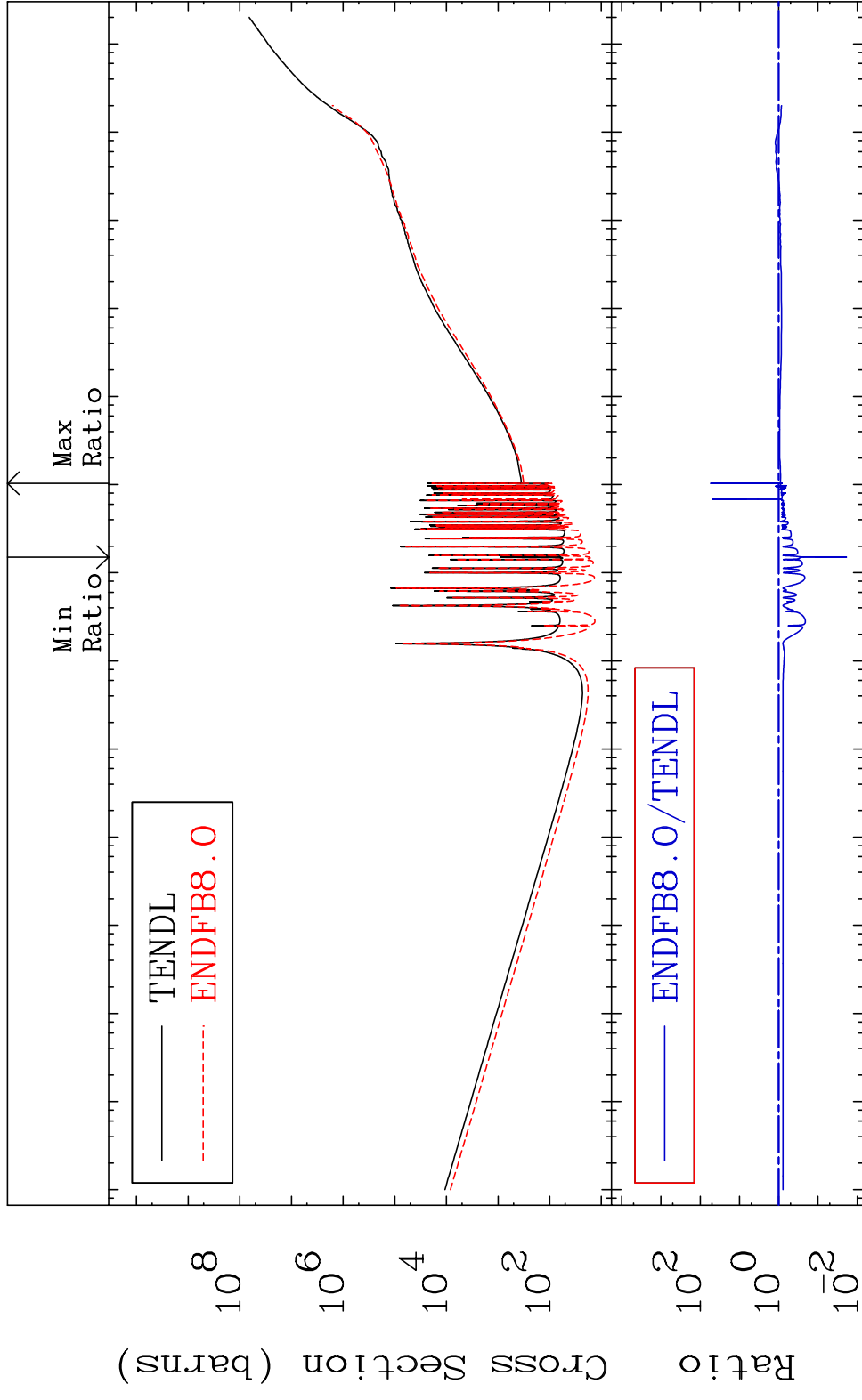
Incident Energy (eV)

44-Ru-101

MAT 4440 Total photon (eV-barns) 44-Ru-101  
 Cross Section -99.39 To 9999. %

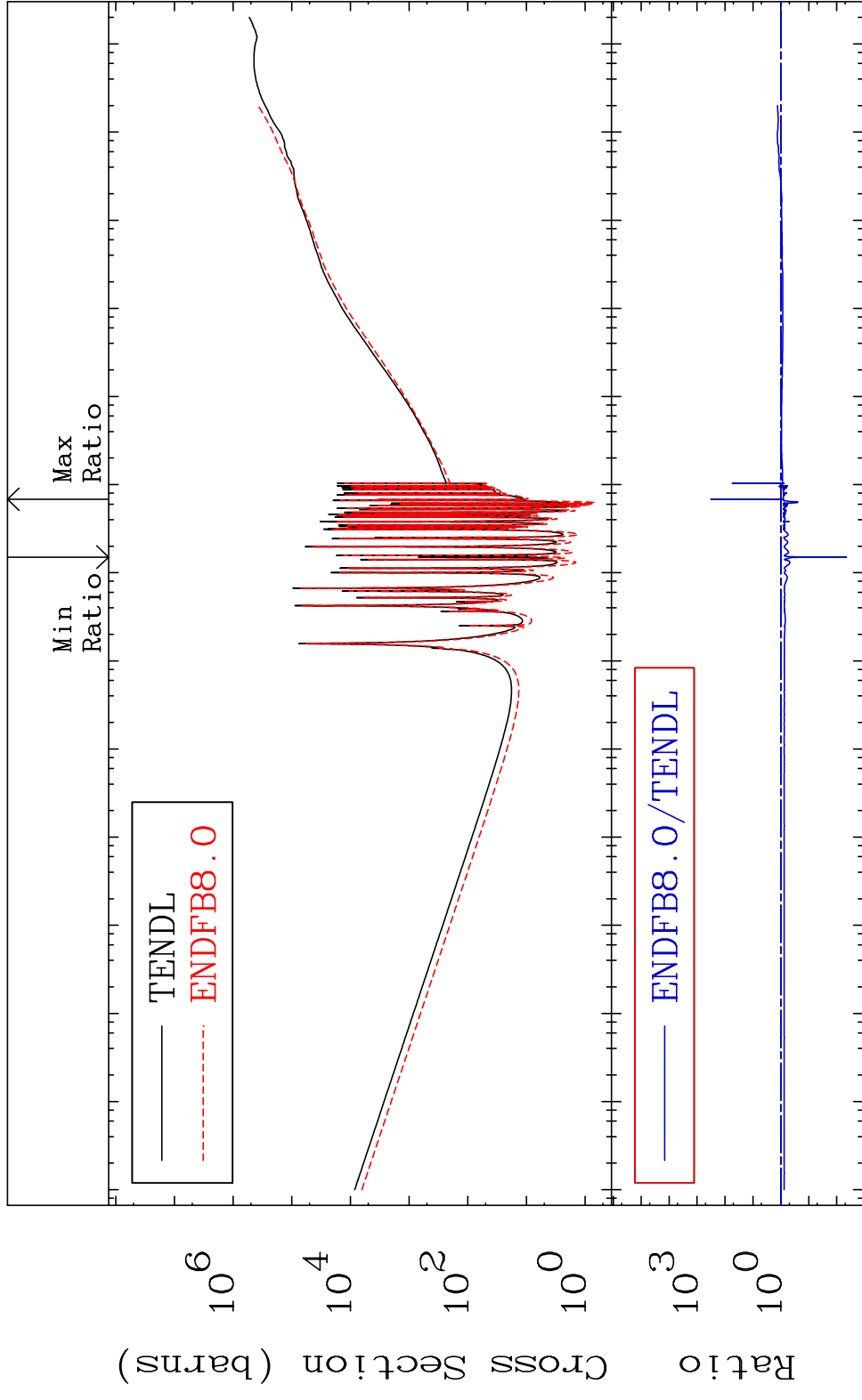


MAT 4440 Total kinematic kerma (high limit) 44-Ru-101  
 Cross Section -98.10 To 5294. %



42 Incident Energy (eV) 44-Ru-101

MAT 4440      Dpa total (eV-barns)      44-Ru-101  
 Cross Section      -99.55 To 9999. %



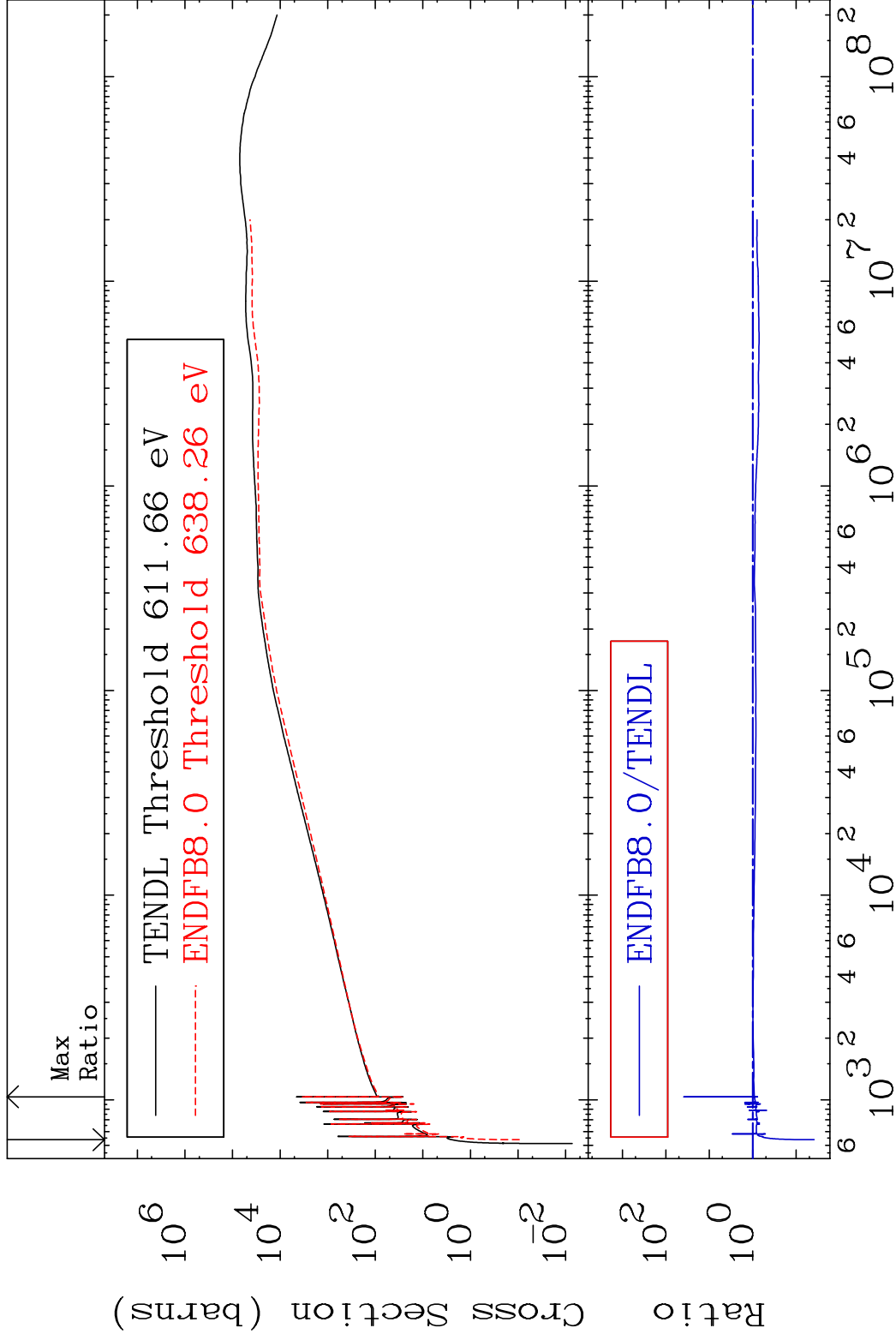
43      Incident Energy (eV)      44-Ru-101

MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -96.13 To 3799. %

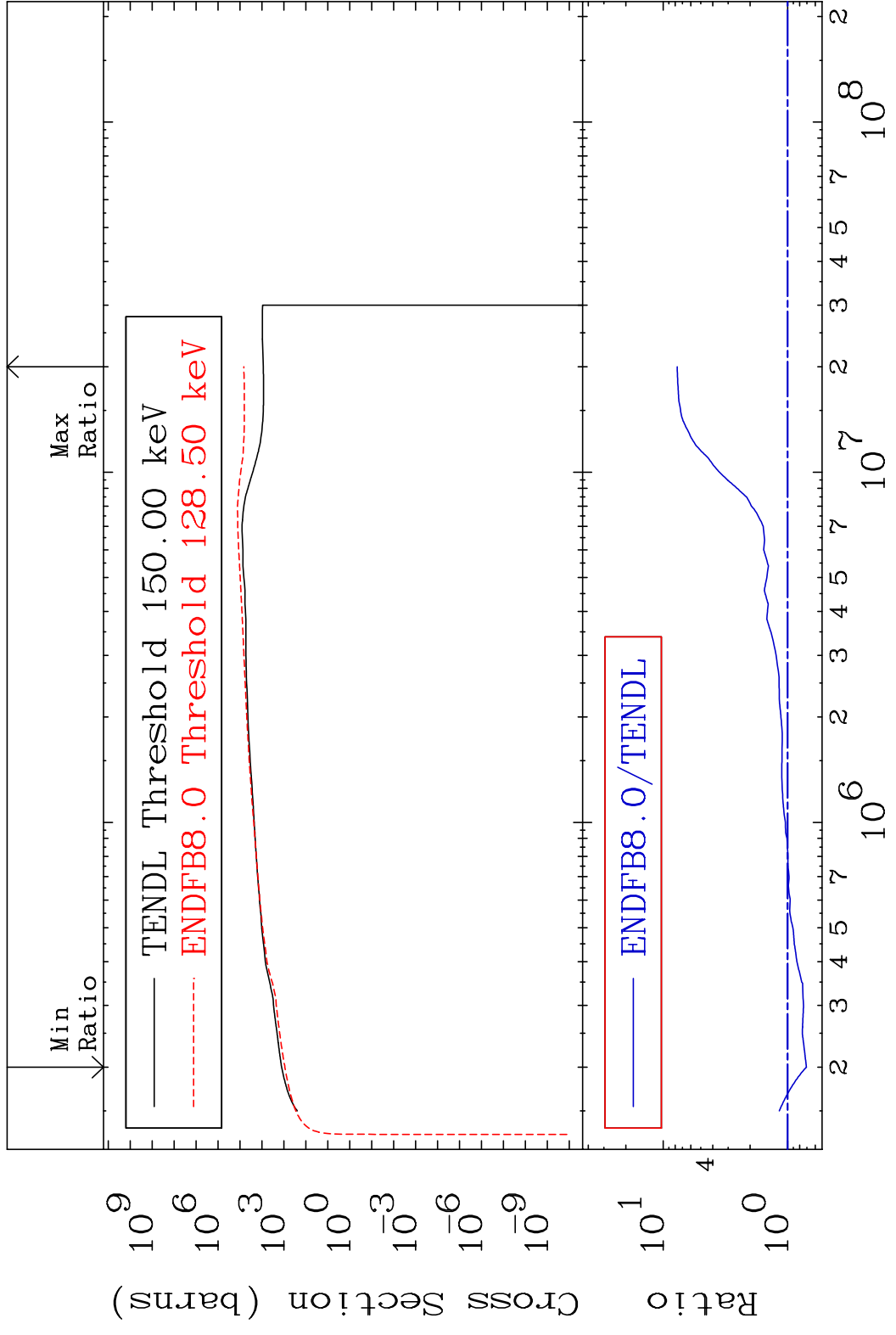


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Incident Energy (eV)

44-Ru-101

MAT 4440 Dpa inelastic (mt51-91) 44-Ru-101  
 Cross Section -29.38 To 672.0 %



MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101  
 Cross Section -99.55 To 9999. %

