

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

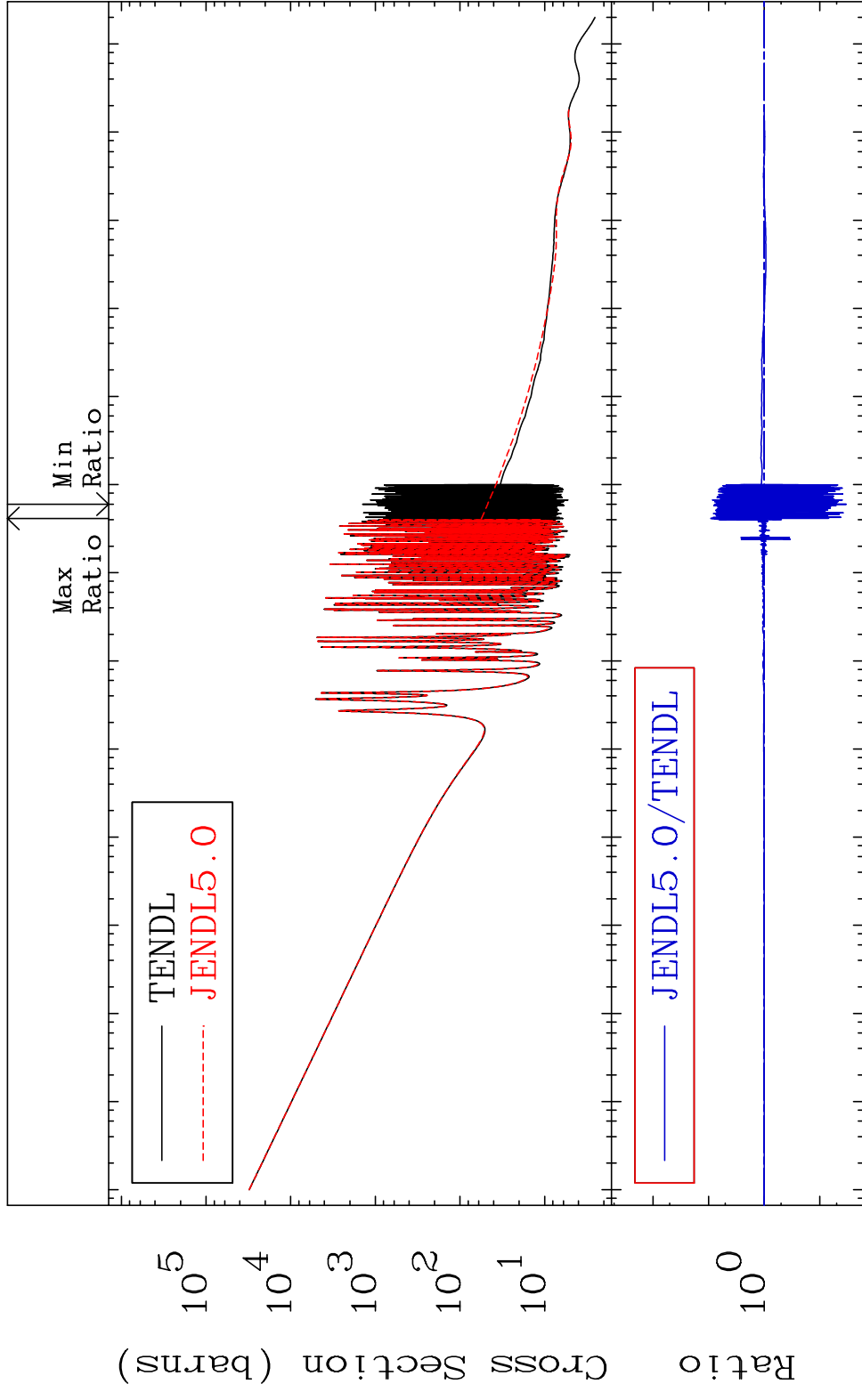
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6640

Total Cross Section -96.66 To 814.6 %  
66-Dy-161



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>8</sup> 10<sup>7</sup> 10<sup>6</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>

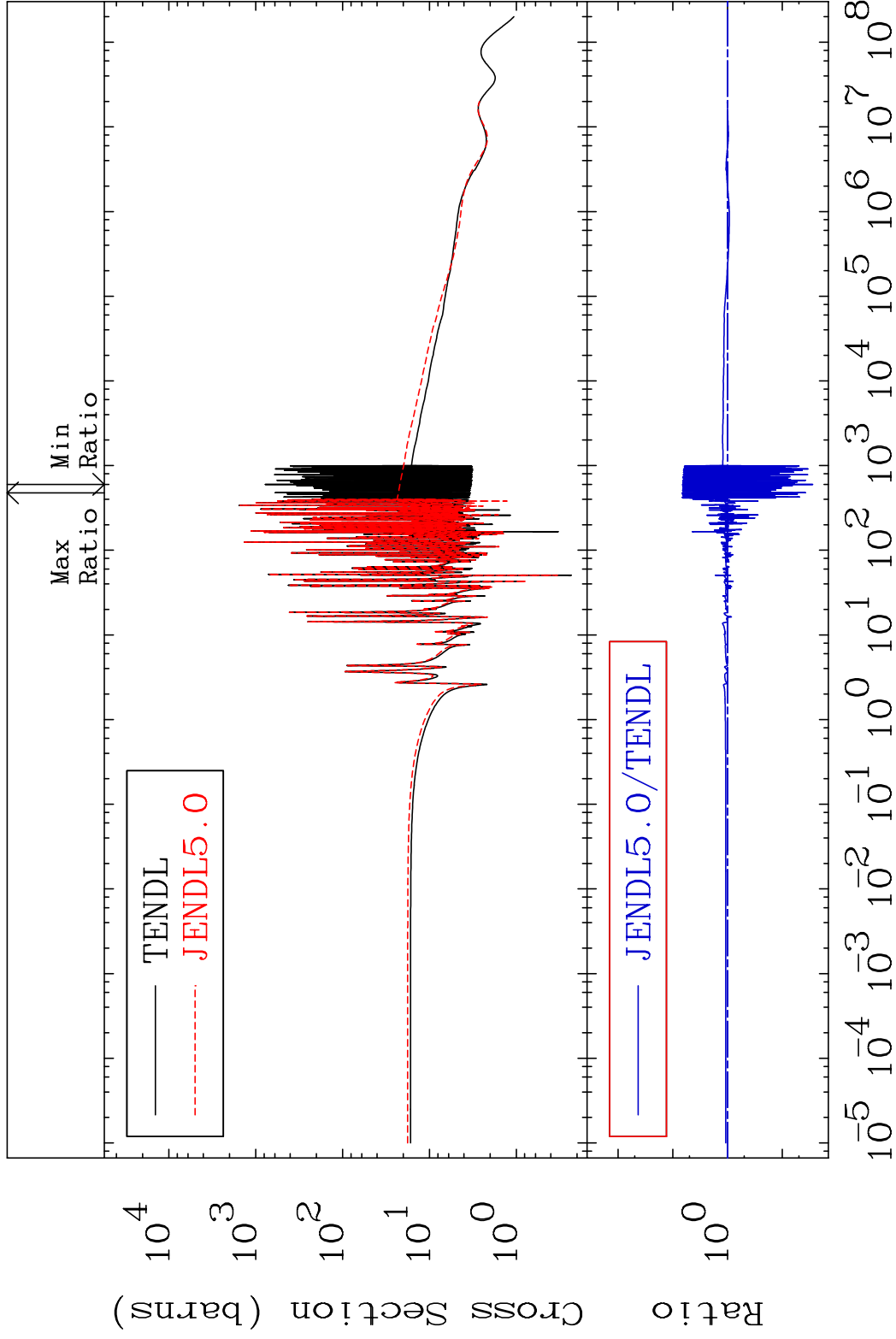
Incident Energy (eV) 66-Dy-161

MAT 6640

Elastic

66-Dy-161

Cross Section -97.19 To 571.7 %

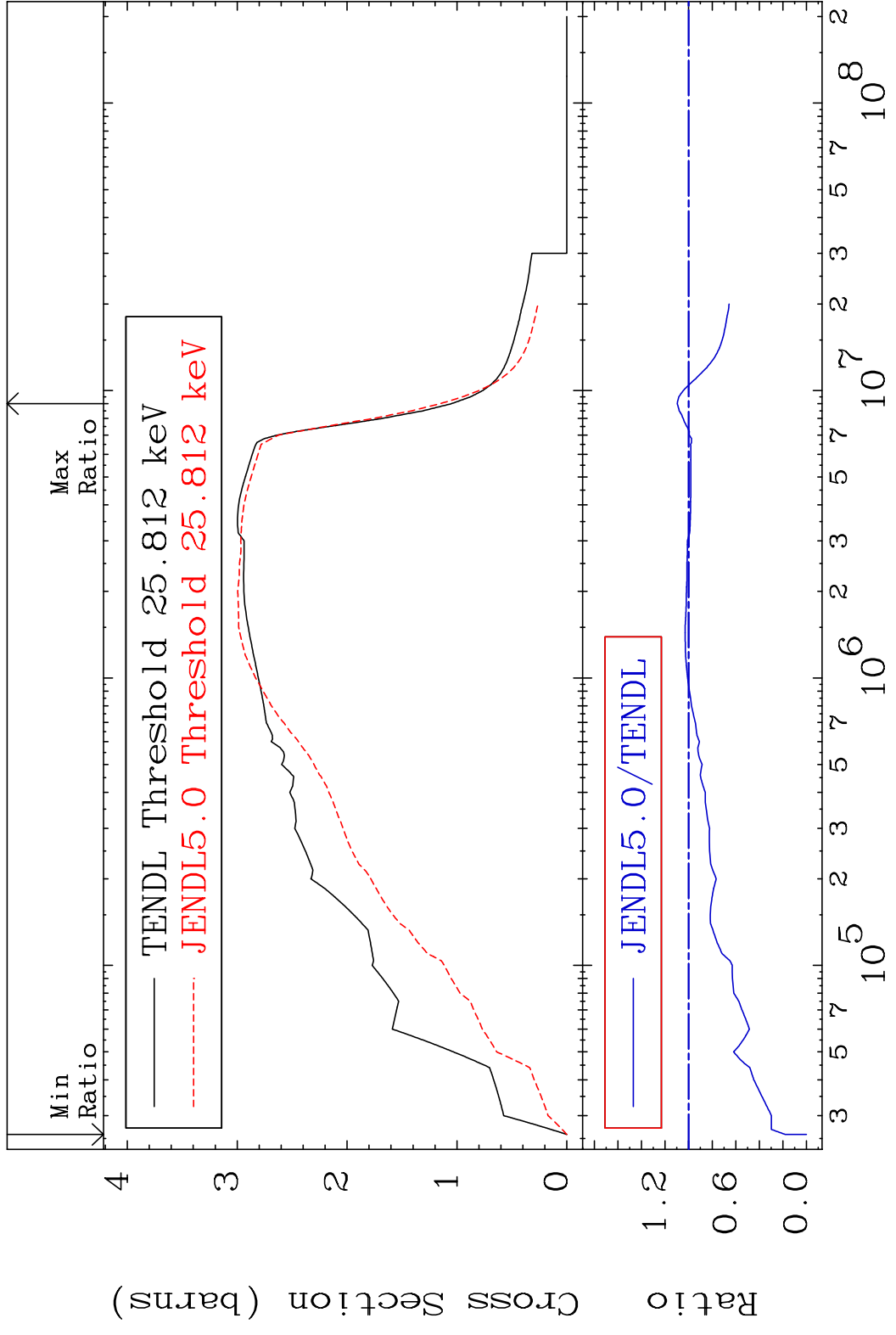


2

Incident Energy (eV)

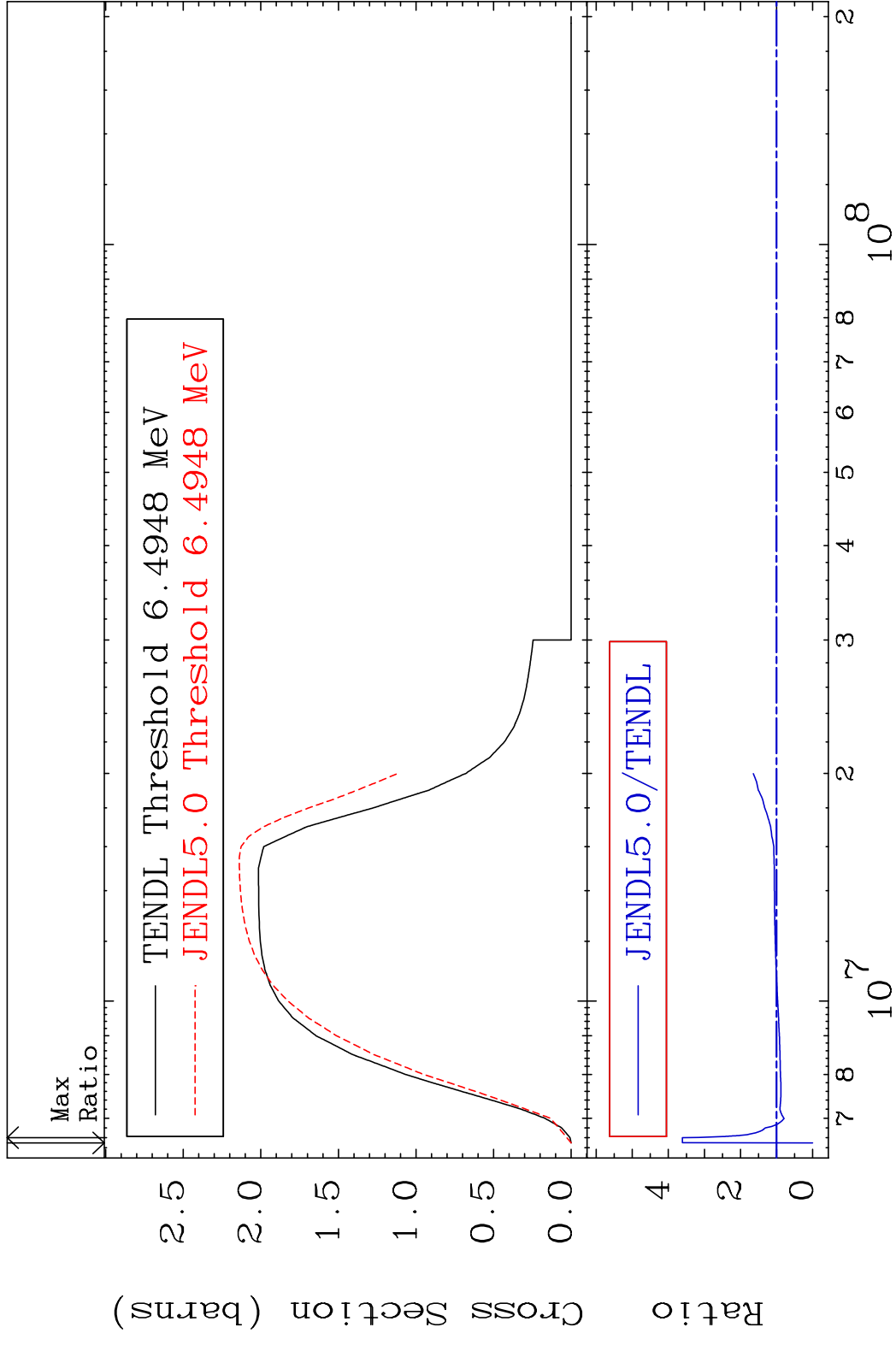
66-Dy-161

MAT 6640 Inelastic Cross Section -100.0 To 9.727 % 66-Dy-161



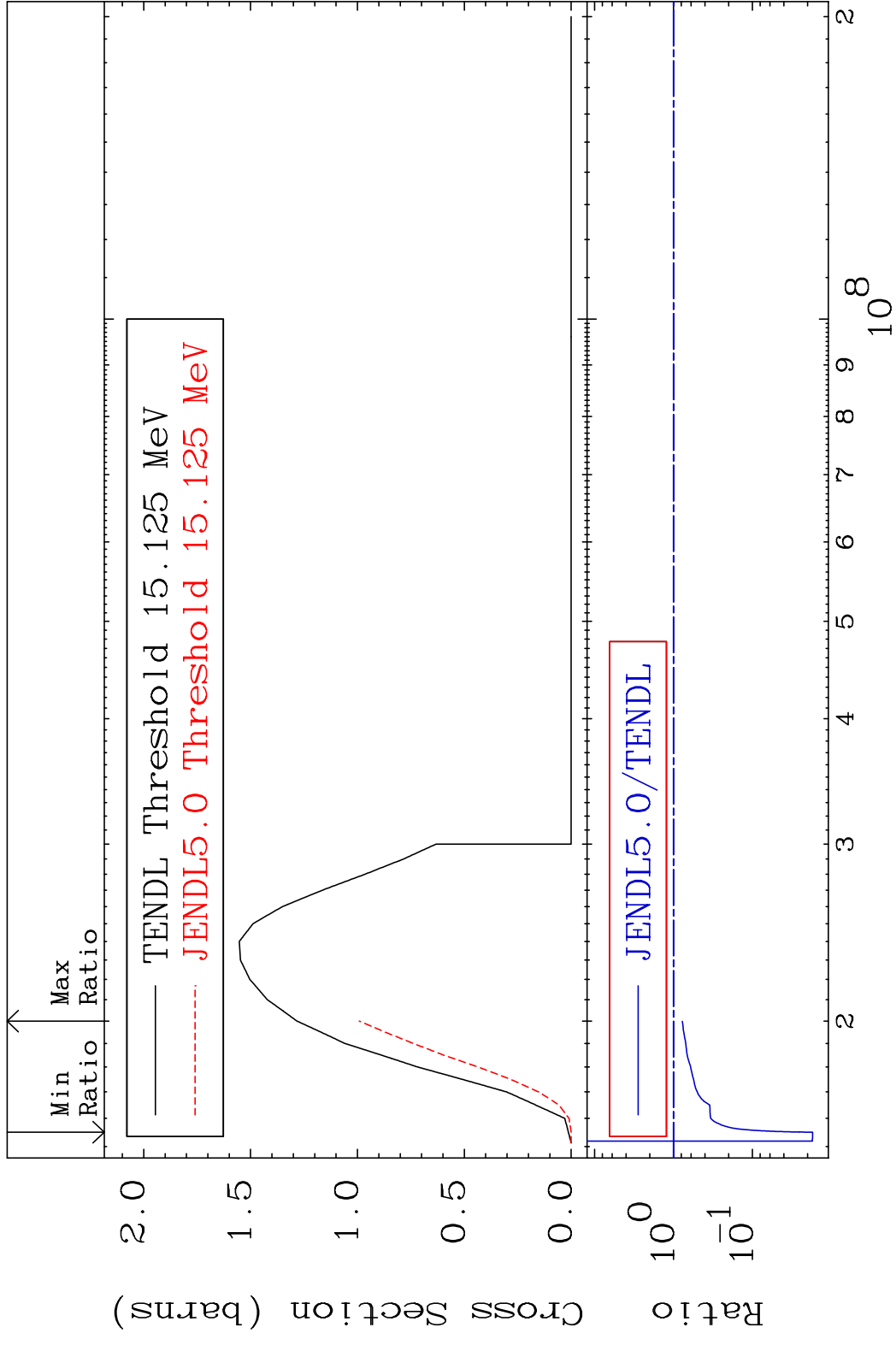
3 Incident Energy (eV) 66-Dy-161

MAT 6640 (n,2n) 66-Dy-161  
 Cross Section -100.0 To 261.2 %

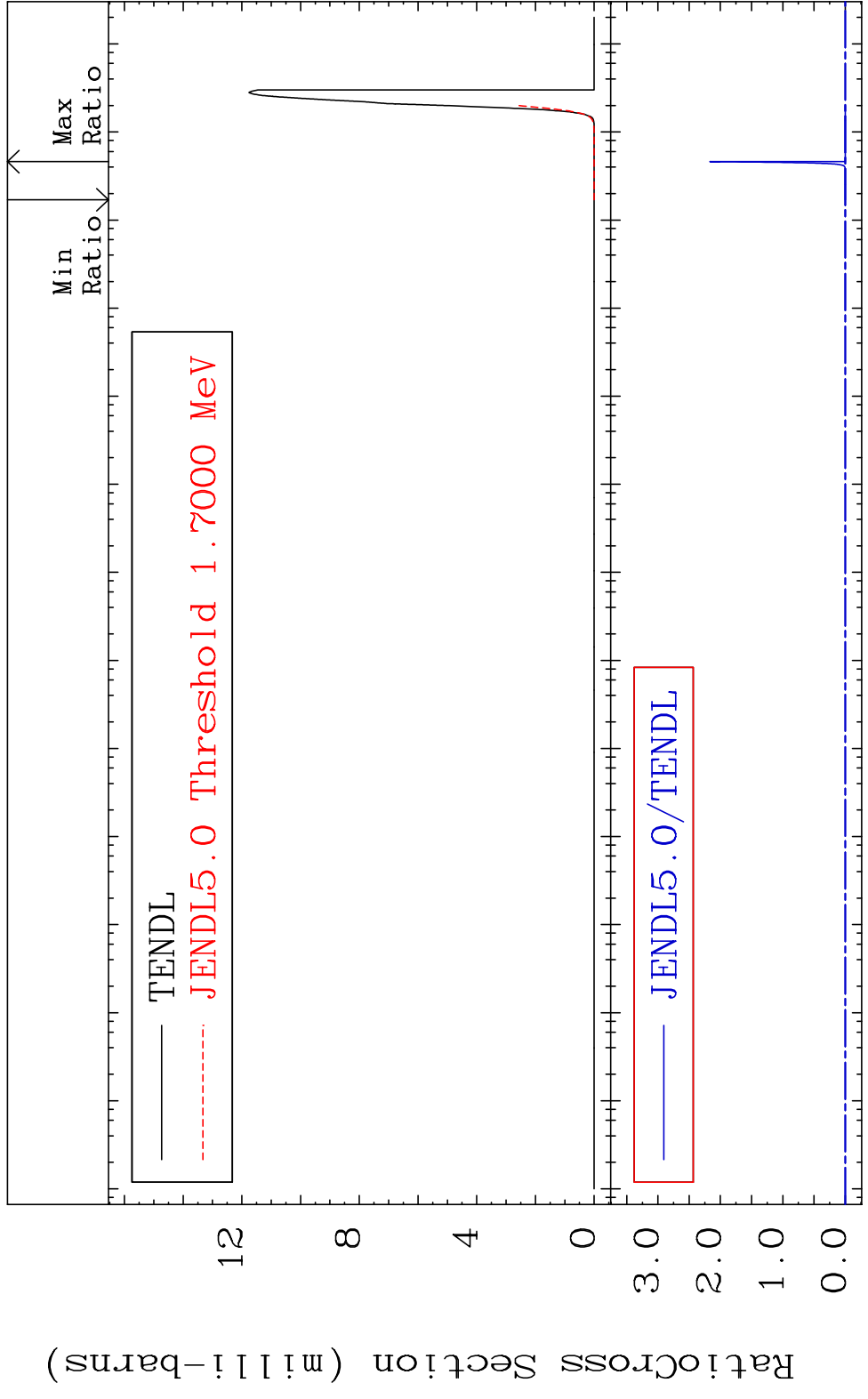


4 Incident Energy (eV) 66-Dy-161

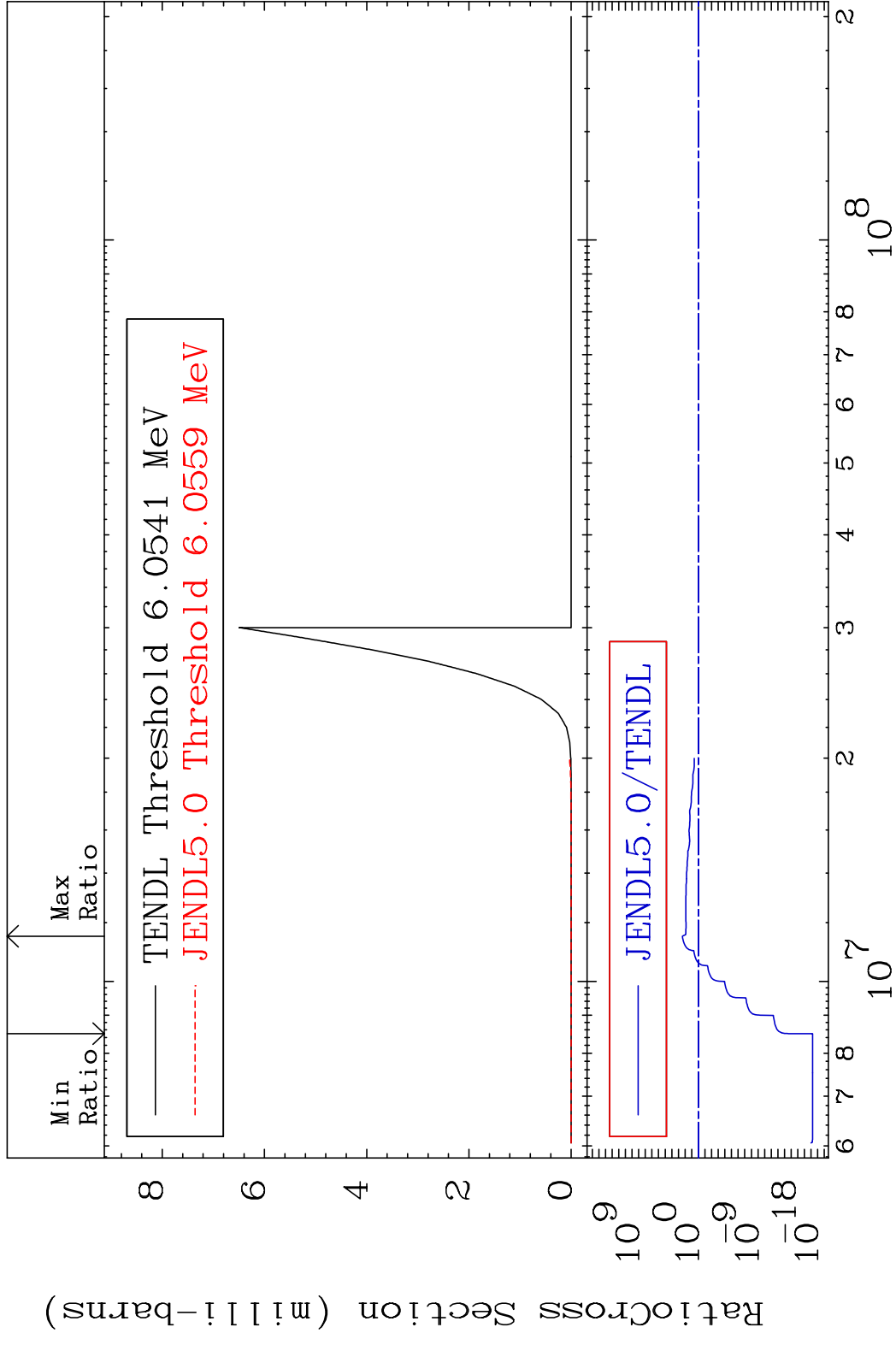
MAT 6640 (n,3n) 66-Dy-161  
 Cross Section -98.27 To -22.75%



MAT 6640 (n, n')  $\alpha$  66-Dy-161  
 Cross Section -100.0 To 9999. %



MAT 6640 (n,2n)  $\alpha$  66-Dy-161  
 Cross Section -100.0 To 9999. %



7 Incident Energy (eV) 66-Dy-161

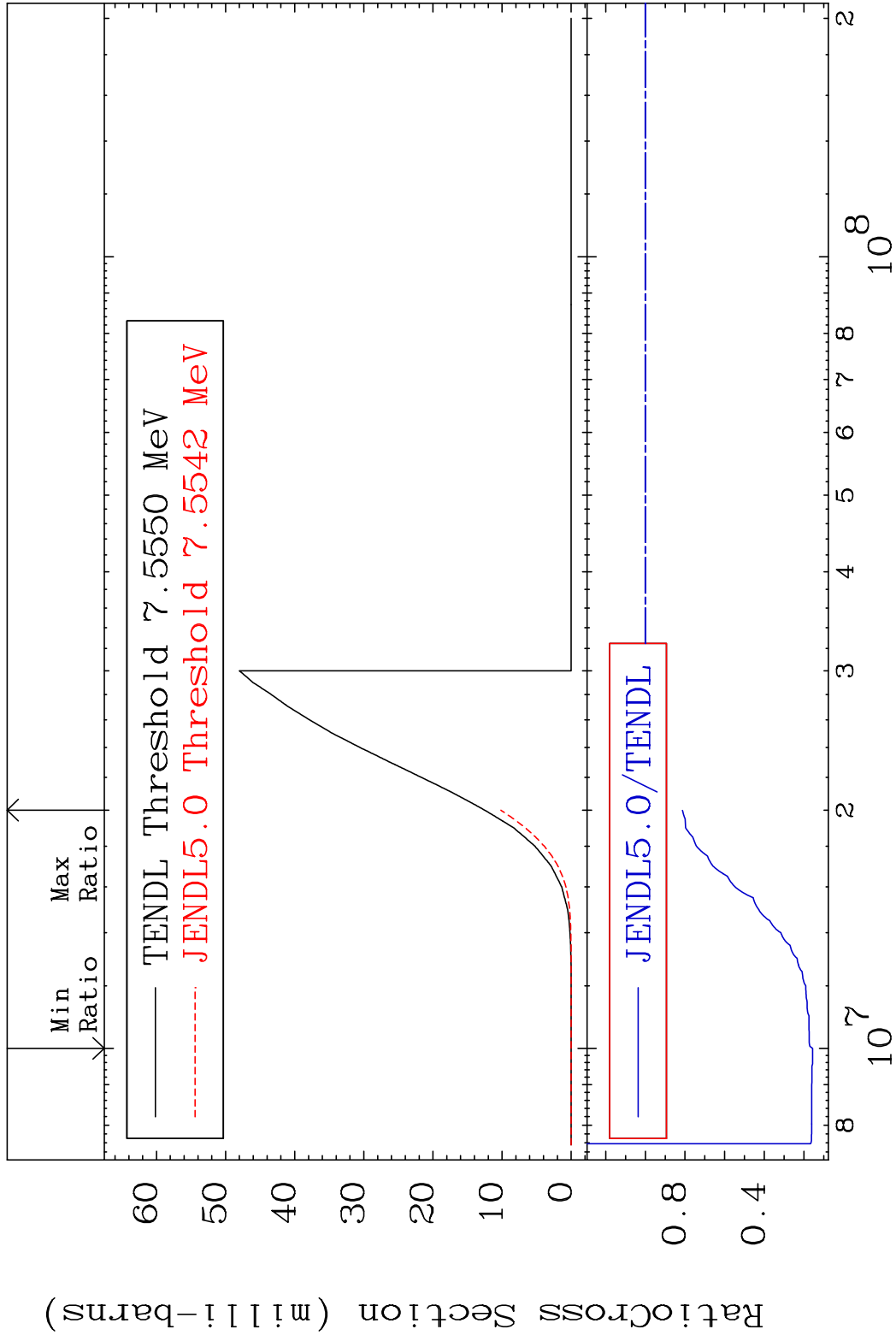


MAT 6640

(n, n') p

66-Dy-161

Cross Section -84.30 To -18.66%



8

Incident Energy (eV)

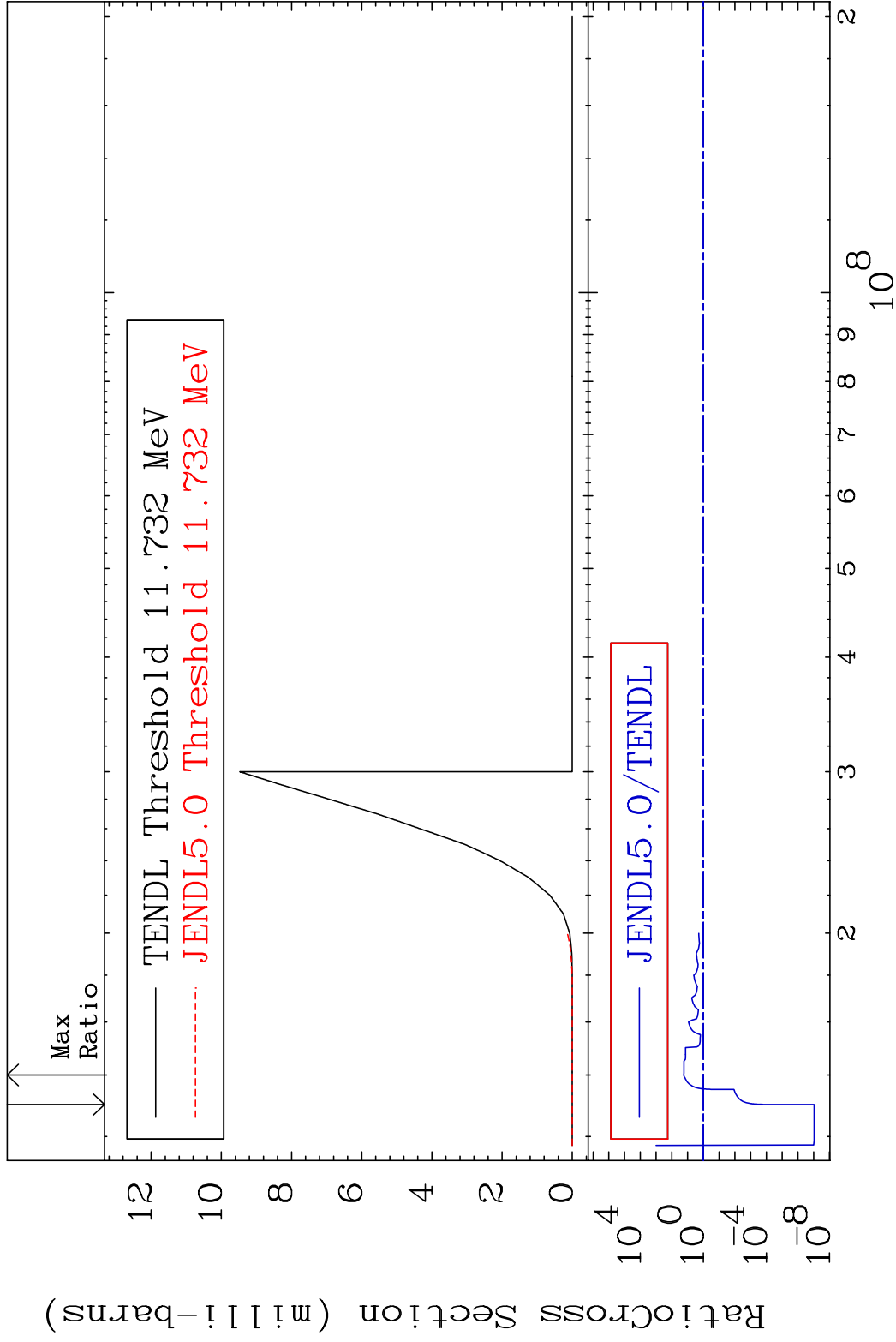
66-Dy-161

MAT 6640

(n, n') d

66-Dy-161

Cross Section -100.0 To 1685. %

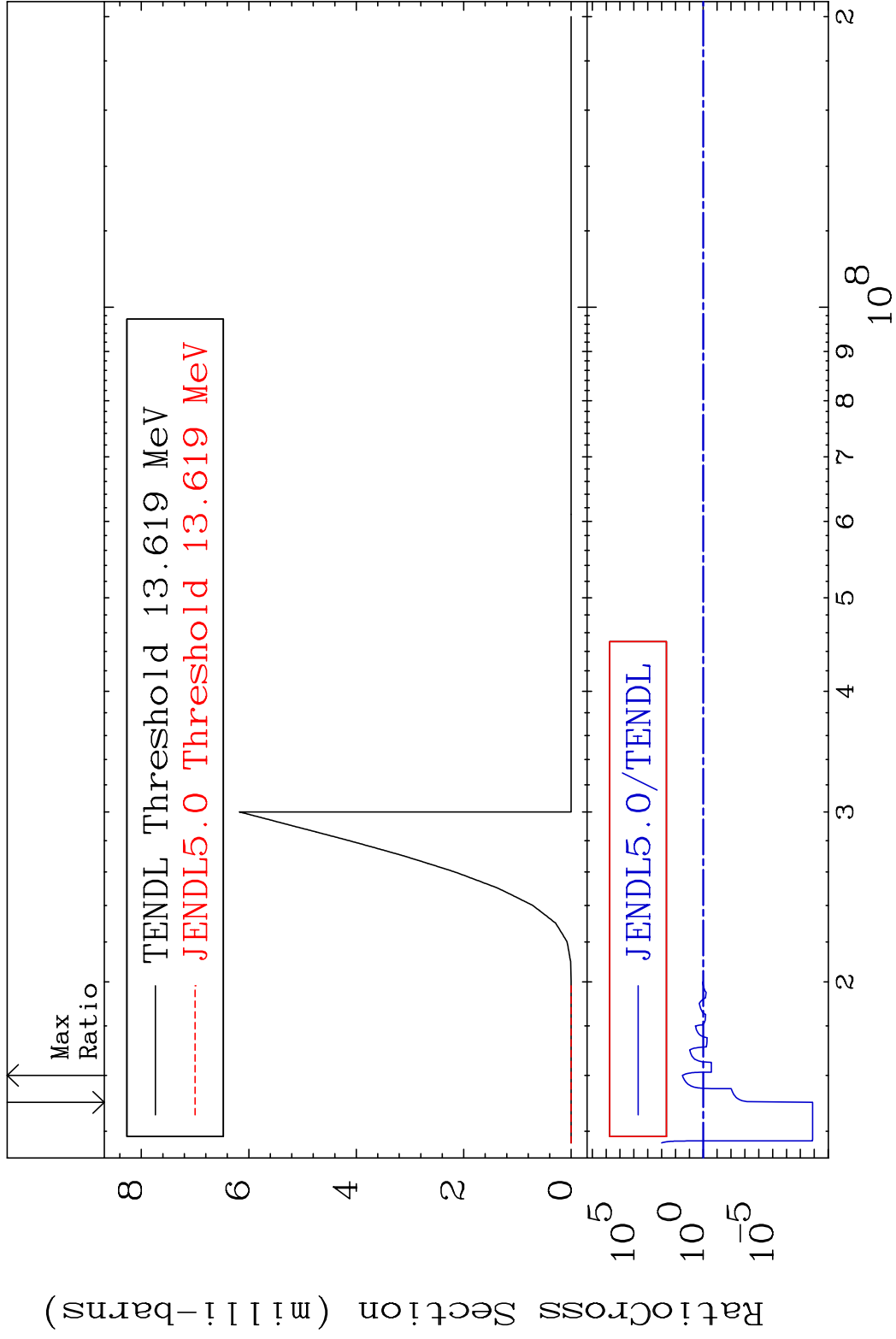


MAT 6640

(n, n') t

66-Dy-161

Cross Section -100.0 To 3107. %



10

Incident Energy (eV)

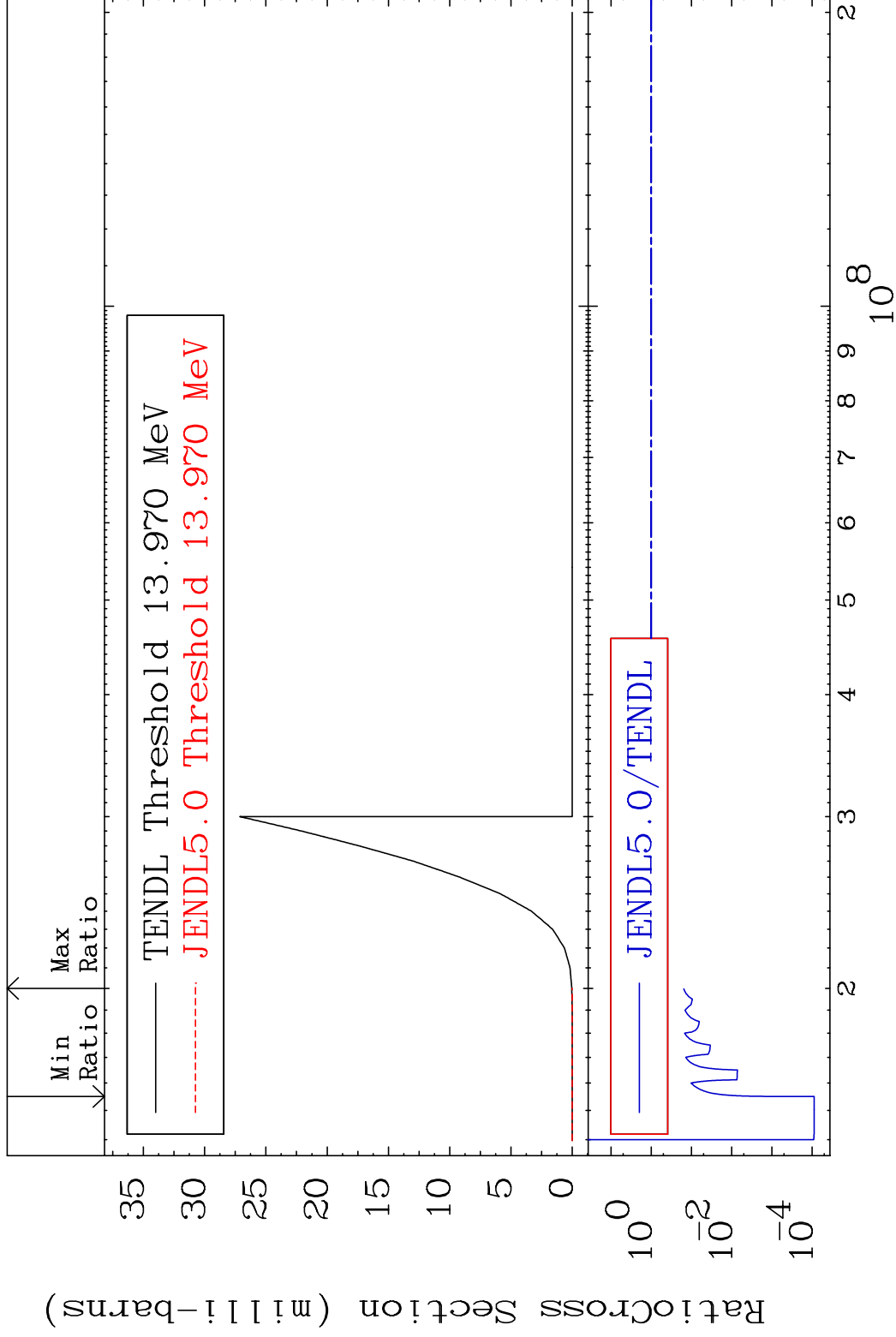
66-Dy-161

MAT 6640

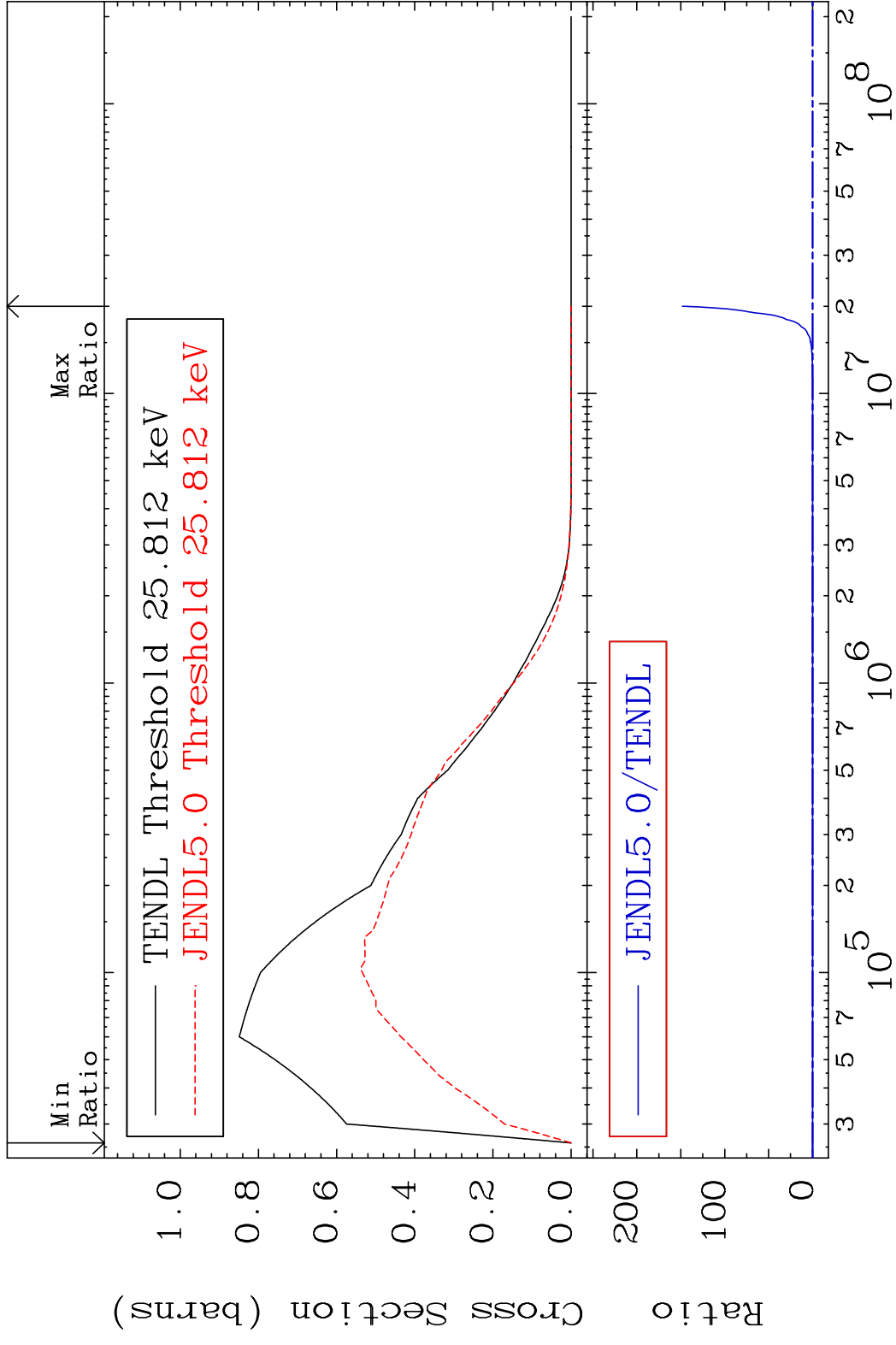
(n,2n) p

66-Dy-161

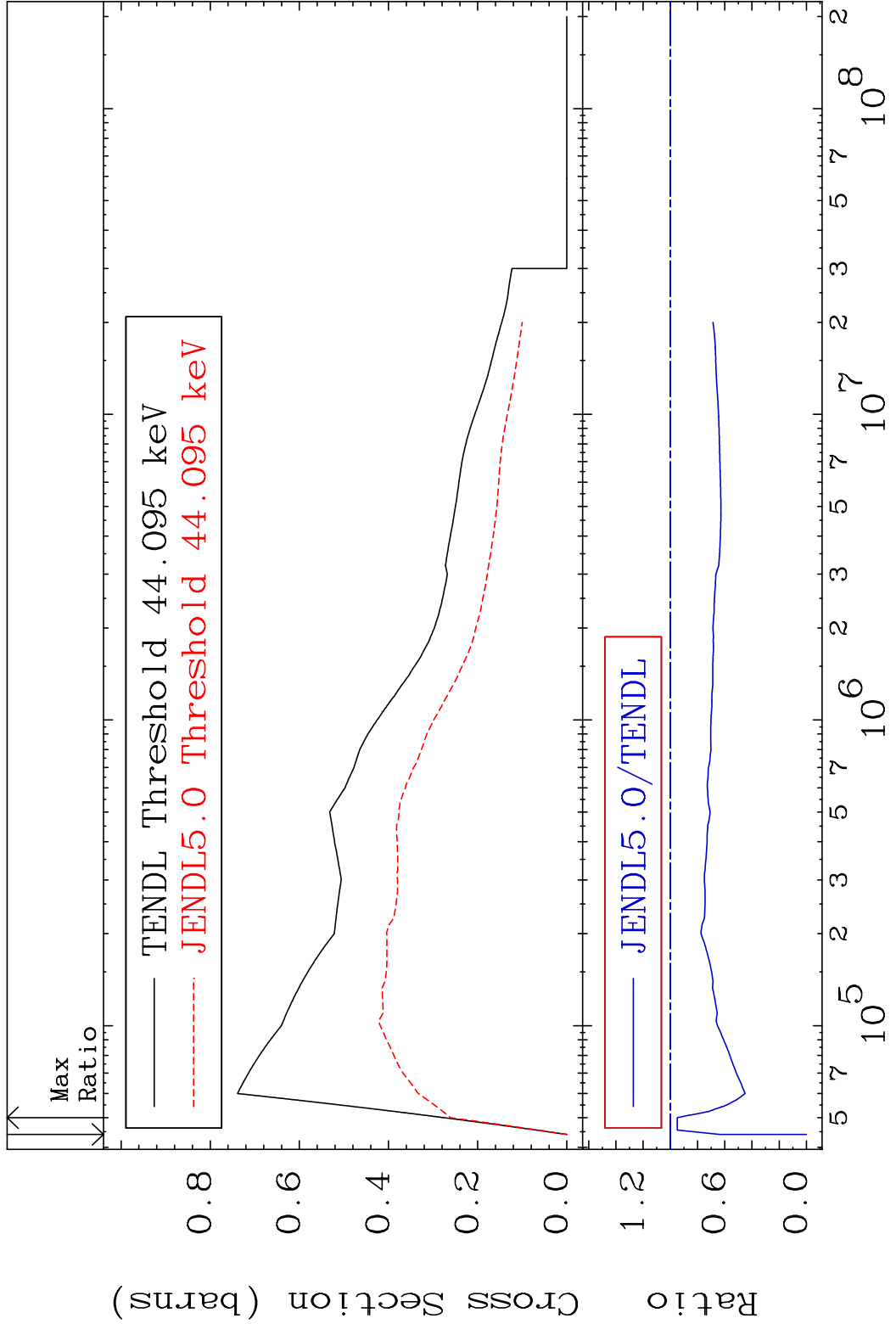
Cross Section -99.99 To -84.34%



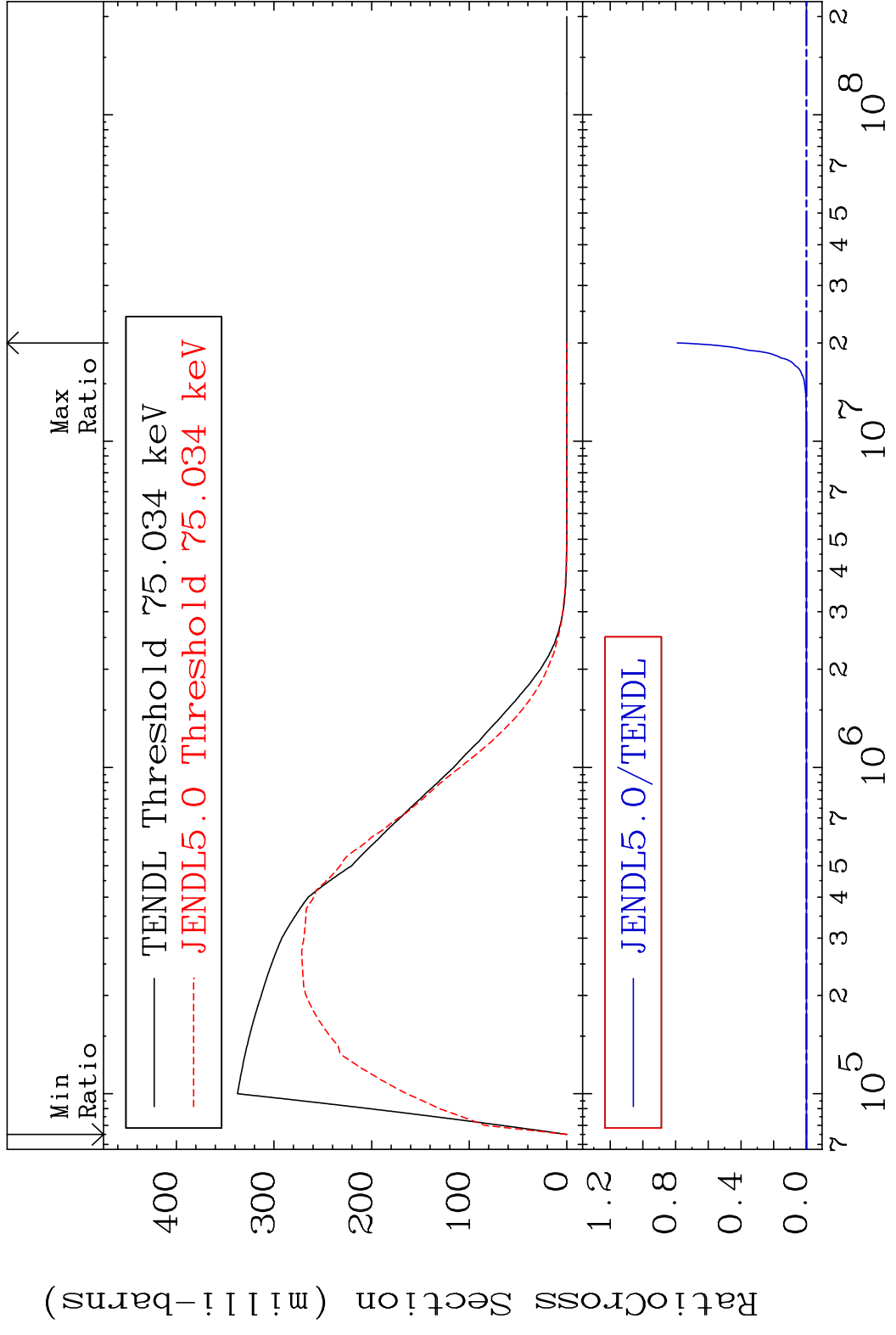
MAT 6640 MT= 51 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



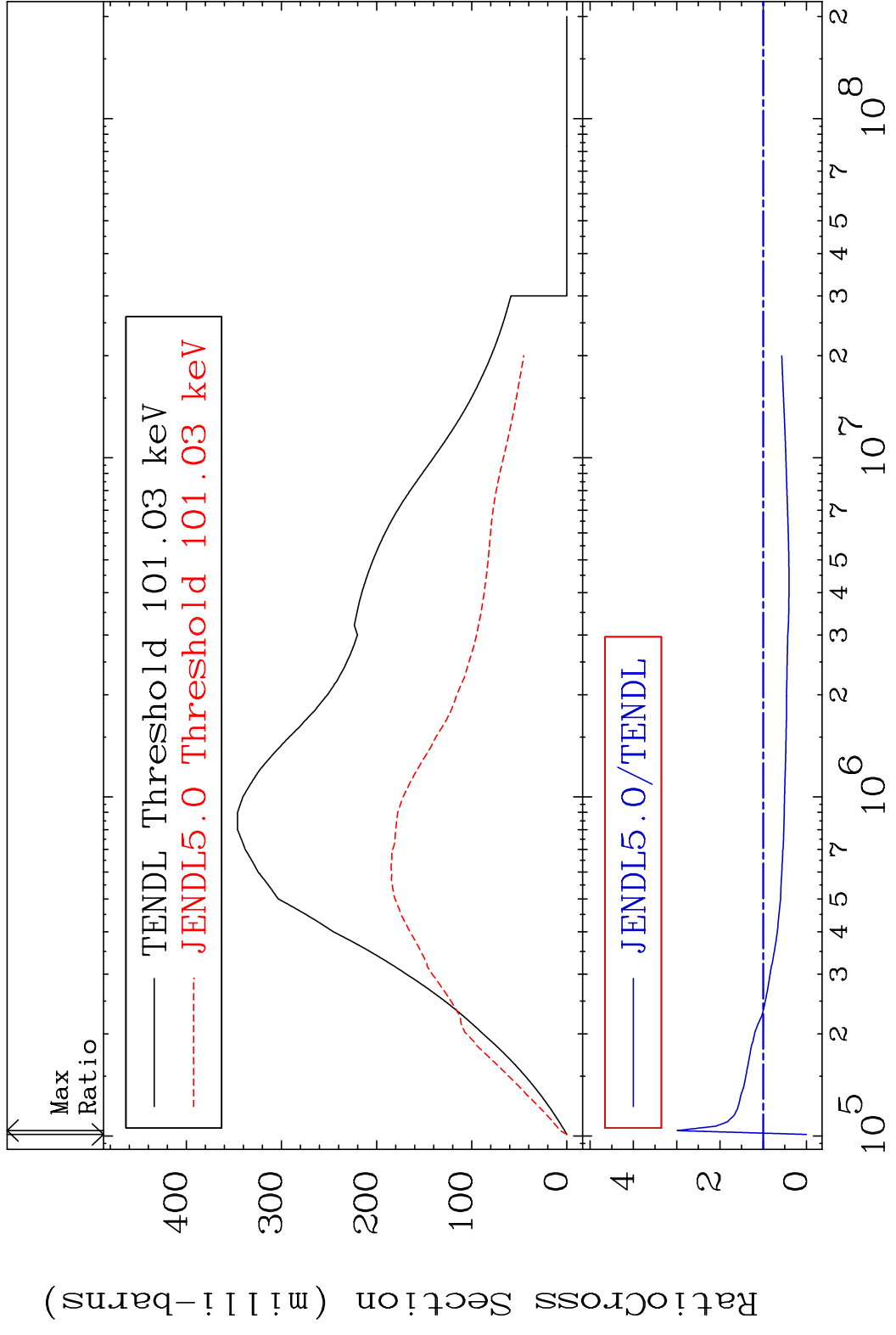
MAT 6640 MT= 52 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To -5.029%



MAT 6640 MT= 53 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



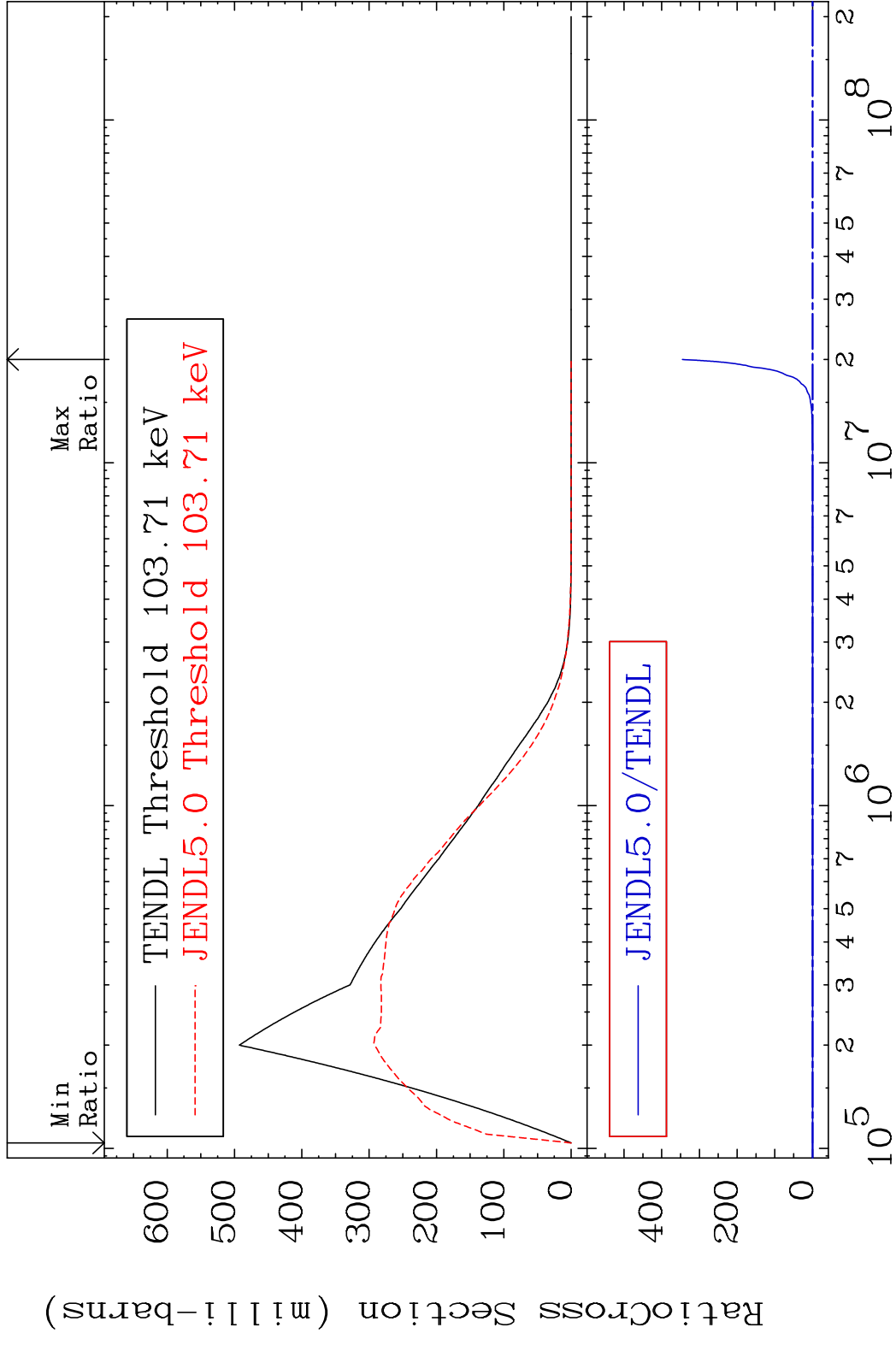
MAT 6640 MT= 54 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 198.8 %



15 66-Dy-161

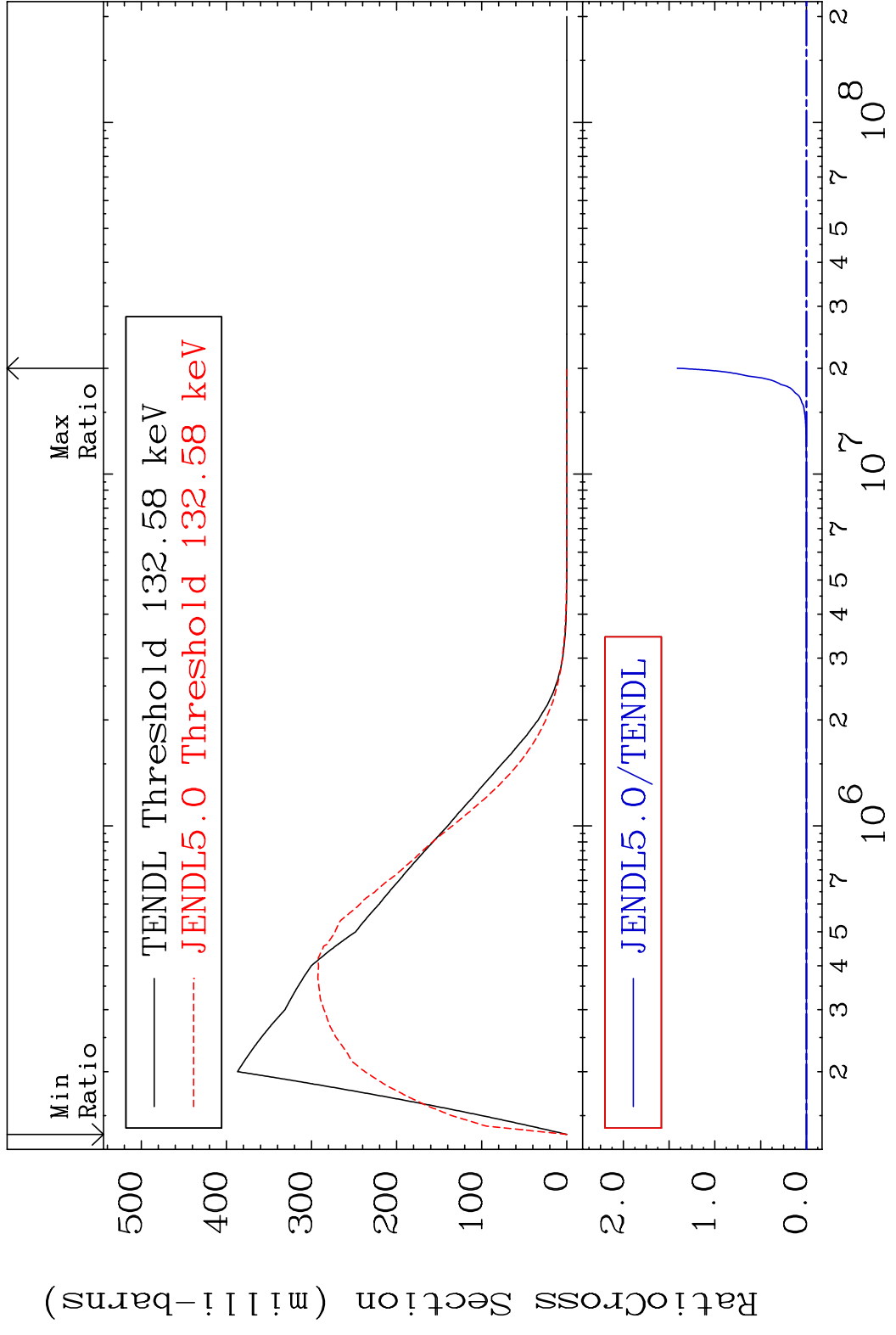


MAT 6640 MT= 55 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %

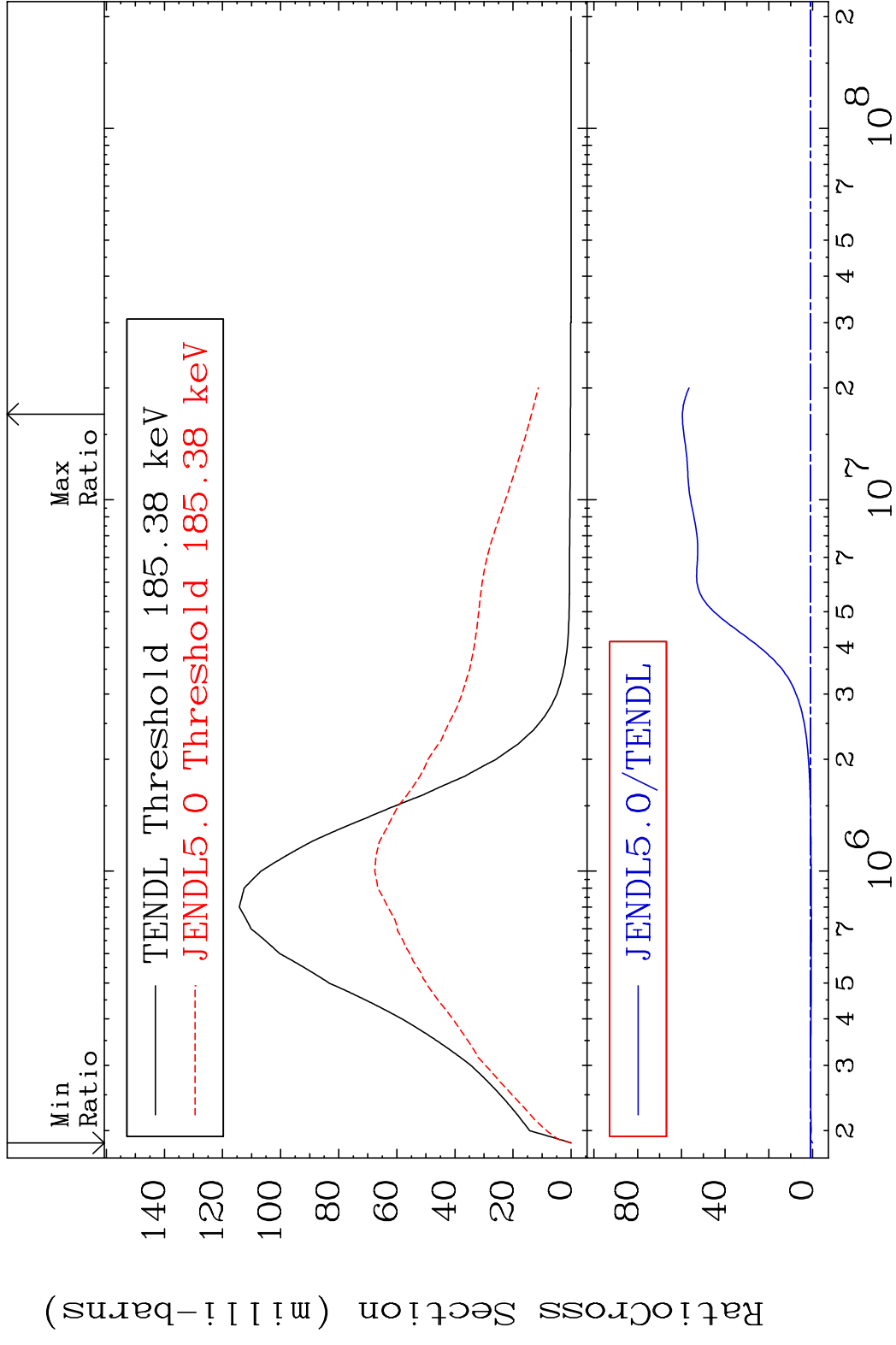


16 Incident Energy (eV) 66-Dy-161

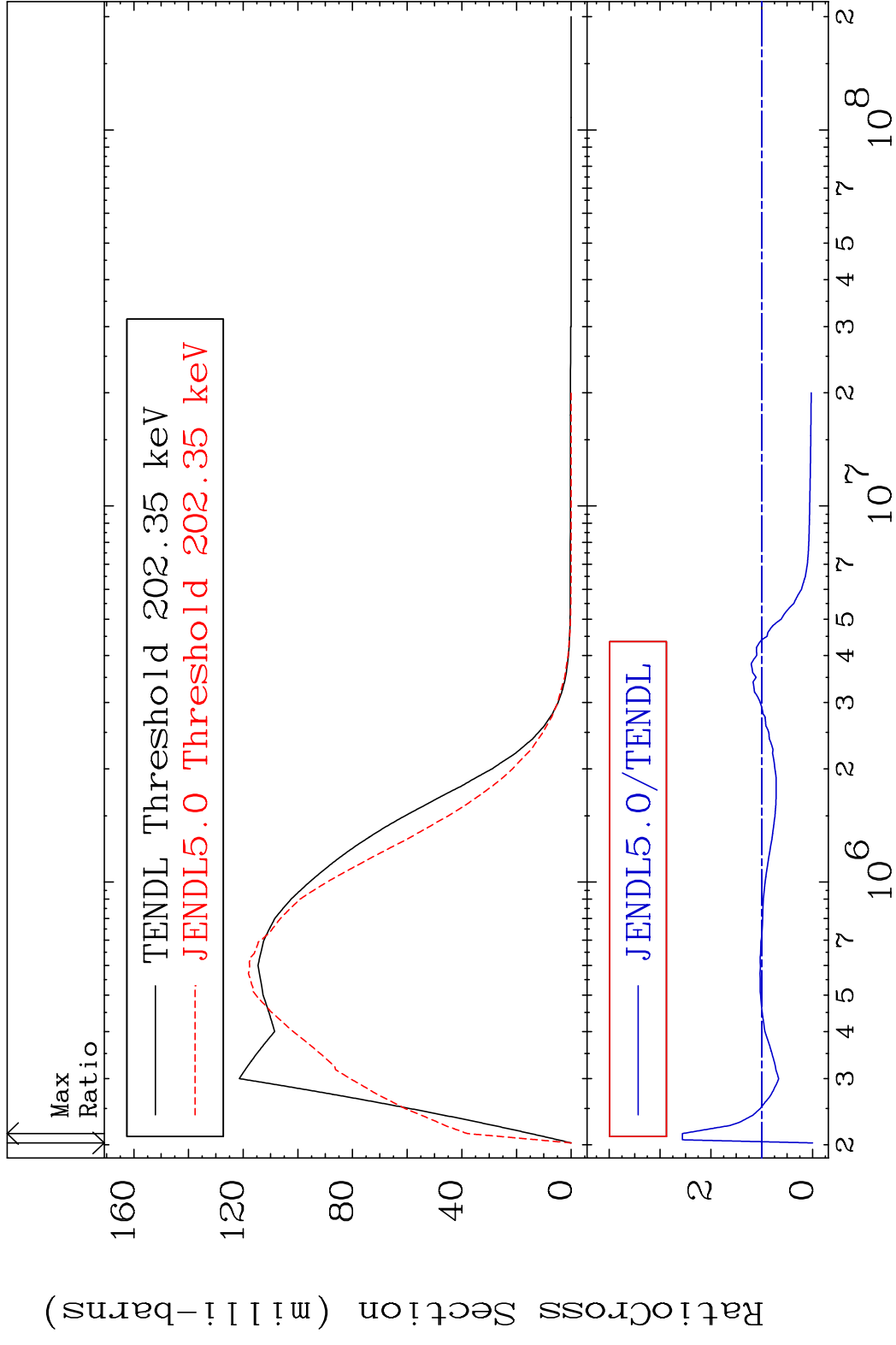
MAT 6640 MT= 56 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



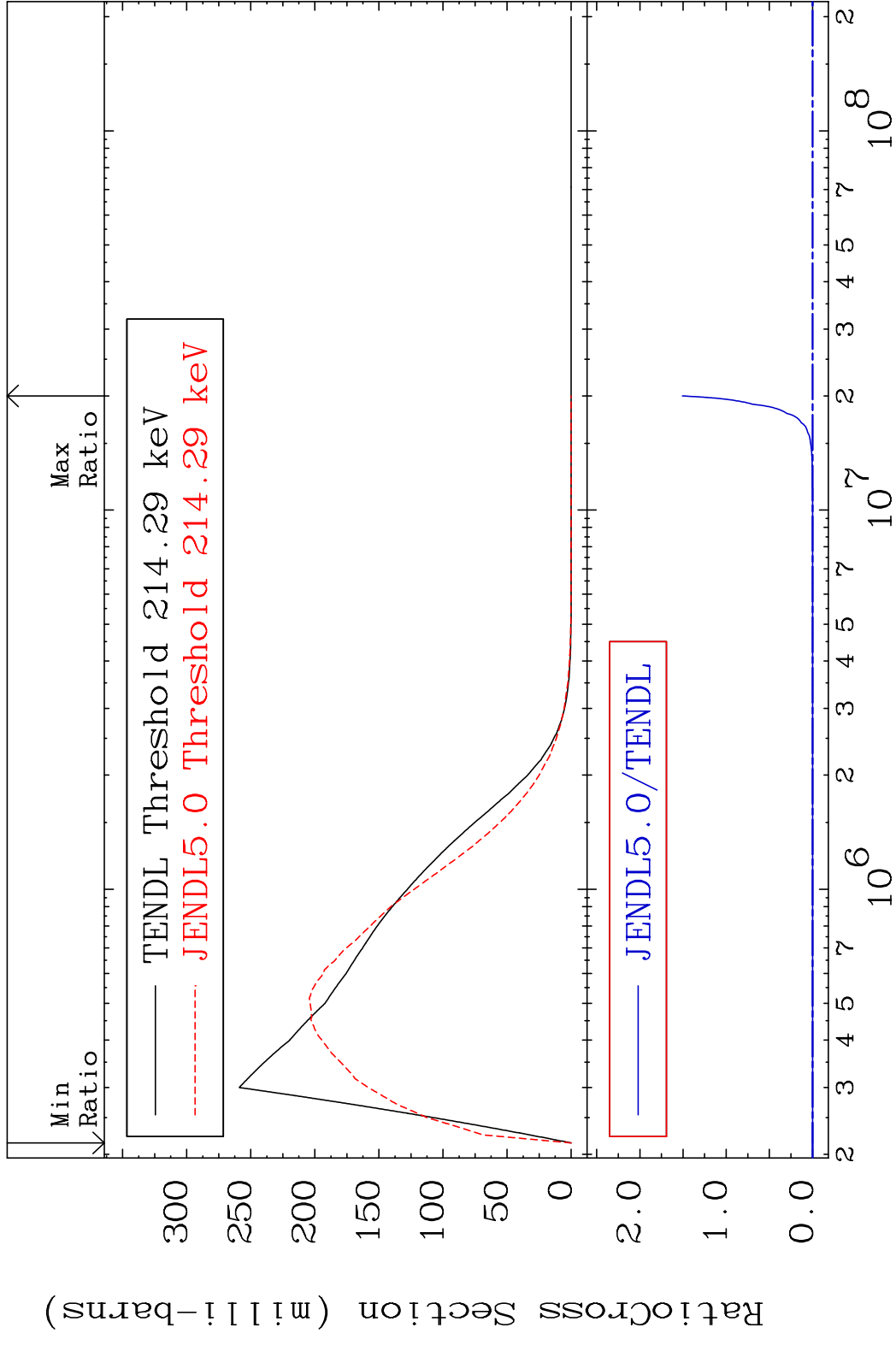
MAT 6640 MT= 57 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 5857. %



MAT 6640 MT= 58 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 156.1 %

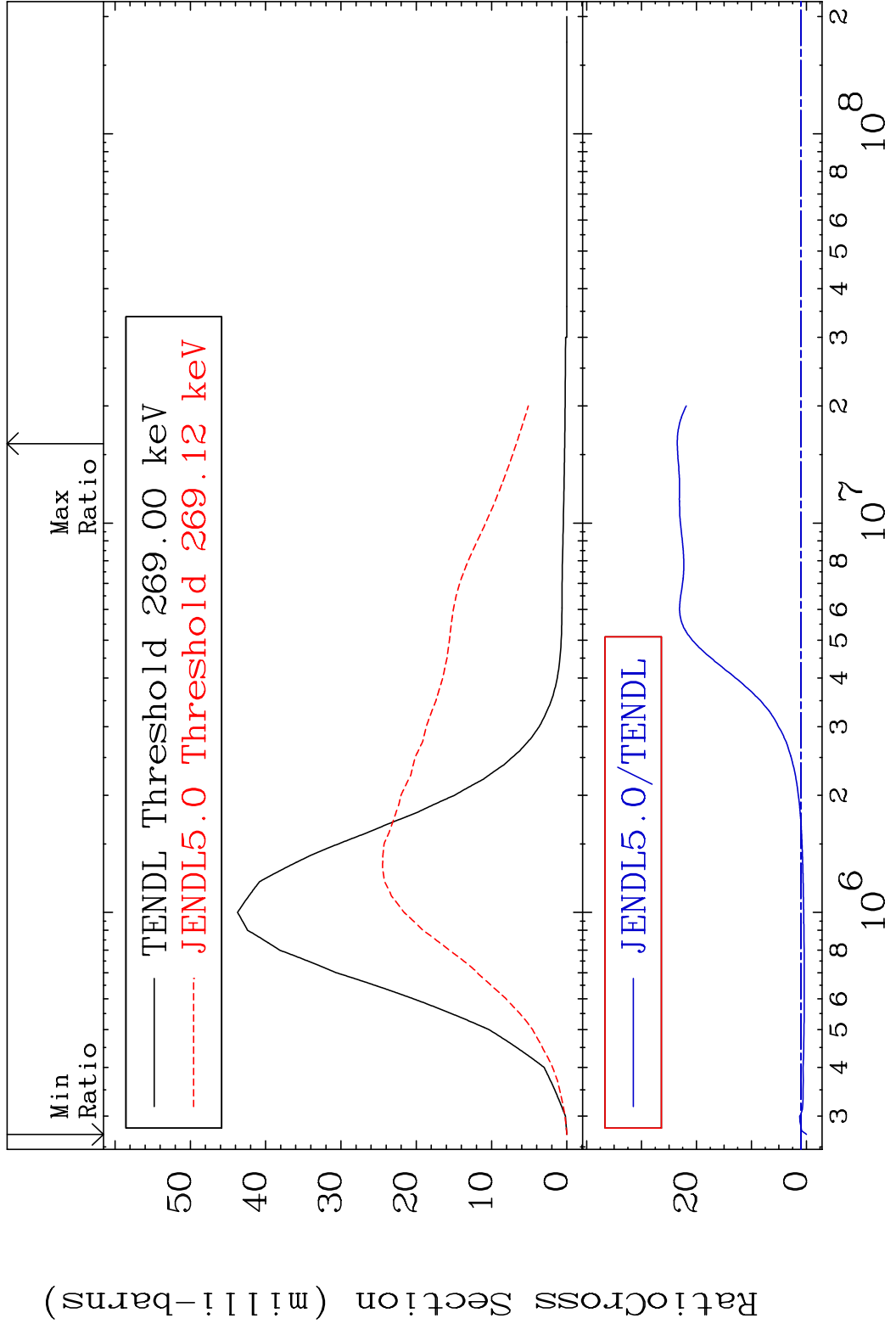


MAT 6640 MT= 59 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %

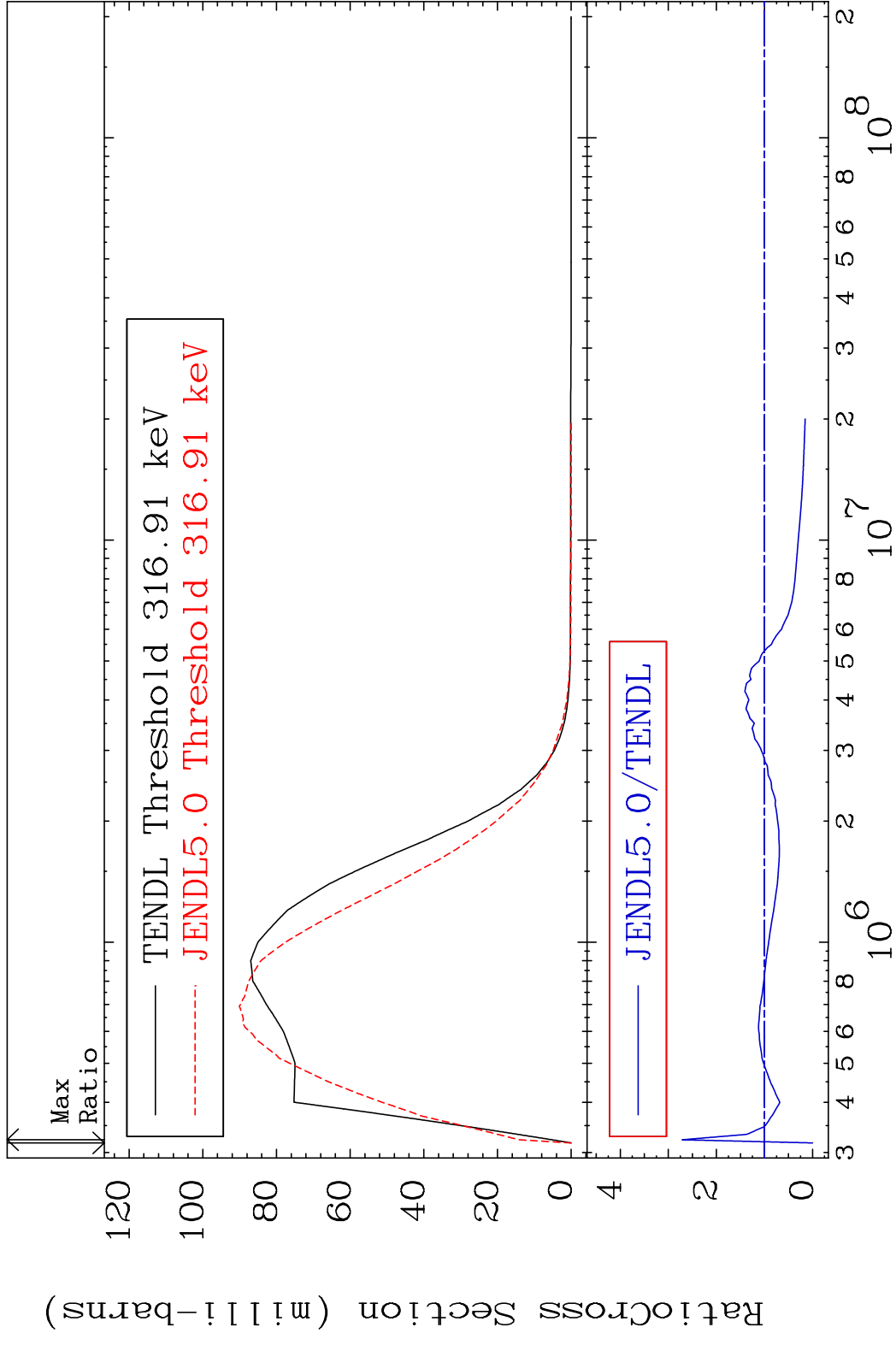


20 Incident Energy (eV) 66-Dy-161

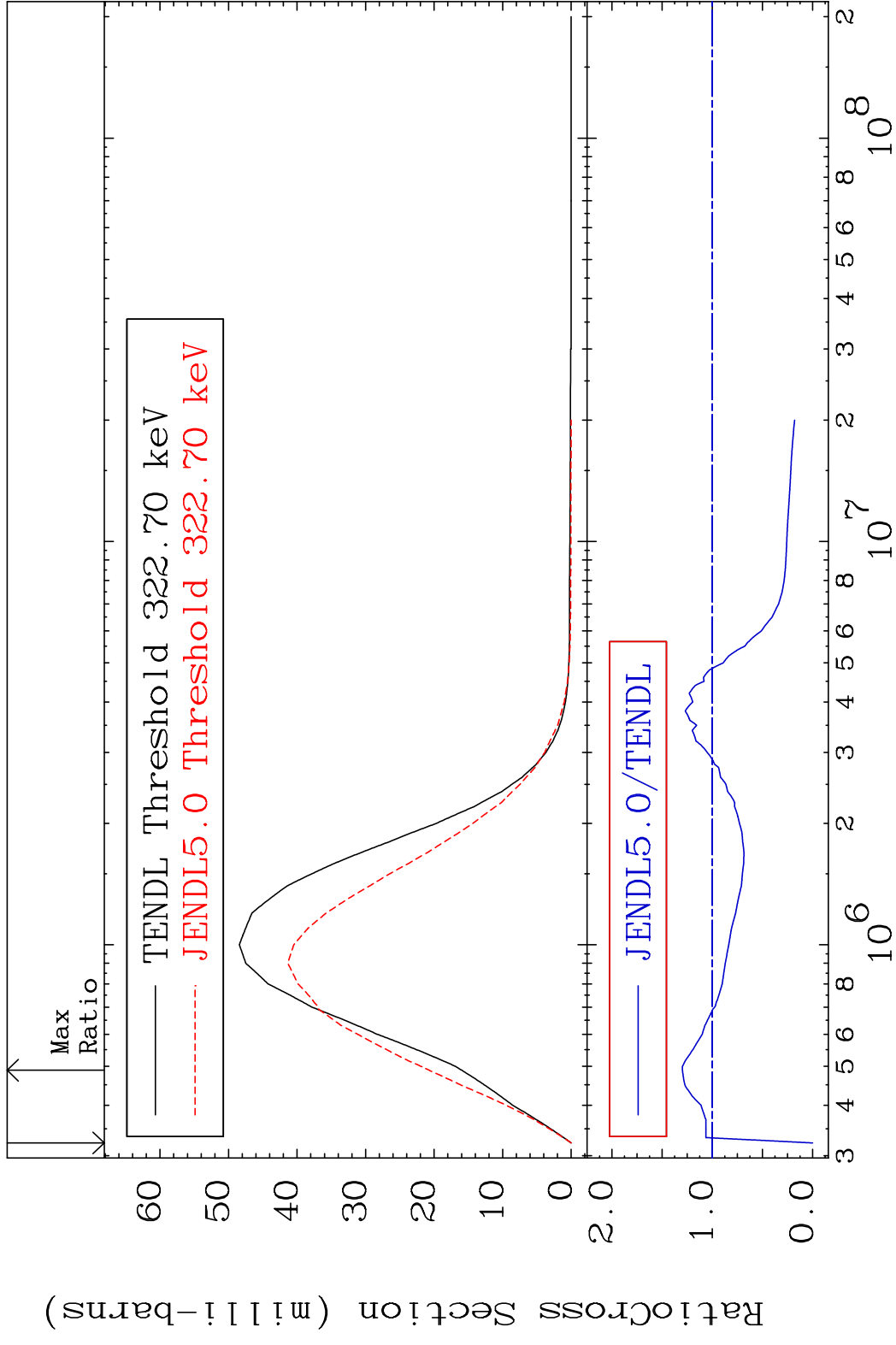
MAT 6640 MT= 60 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 2251. %



MAT 6640 MT= 61 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 170.8 %

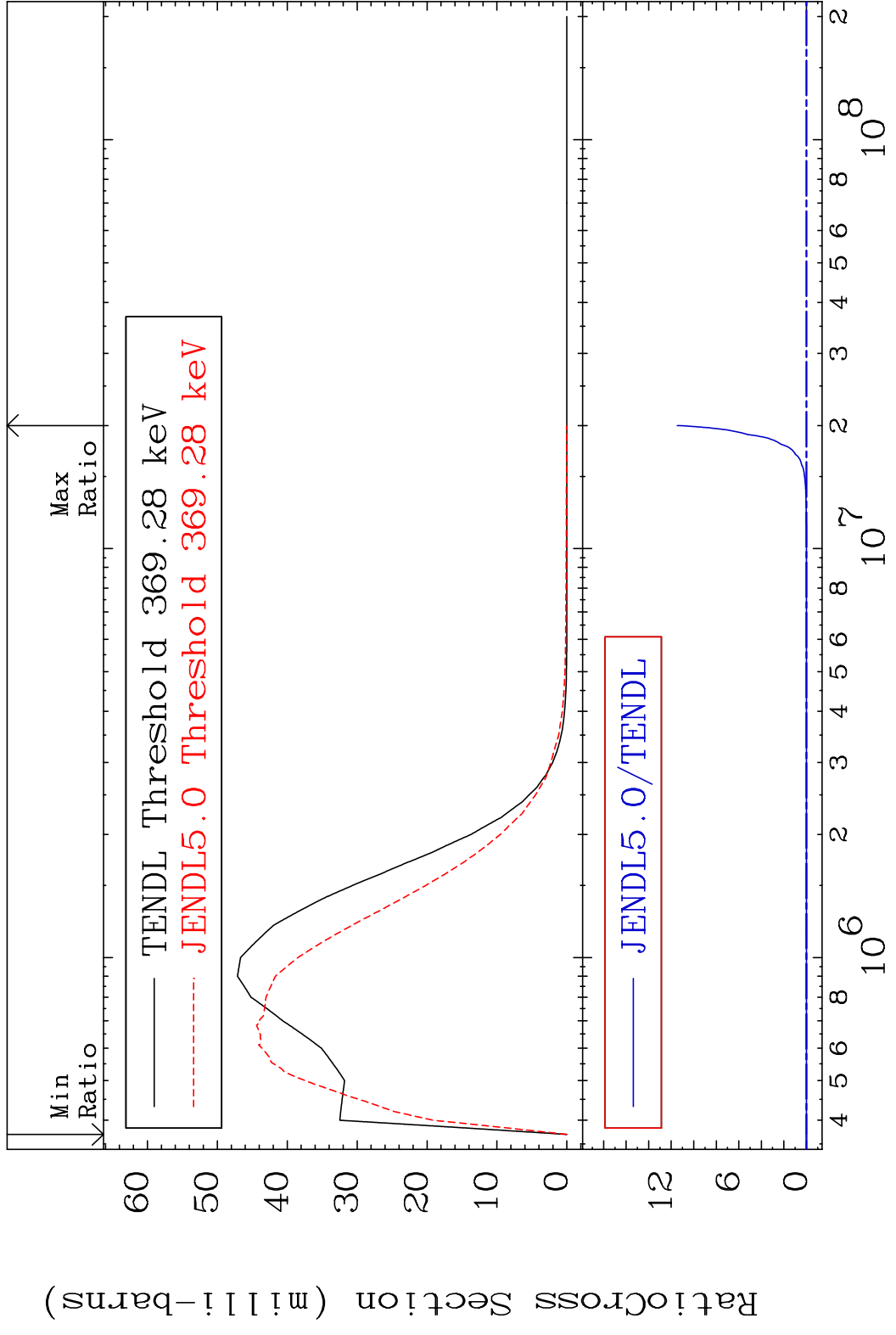


MAT 6640 MT= 62 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 29.86 %

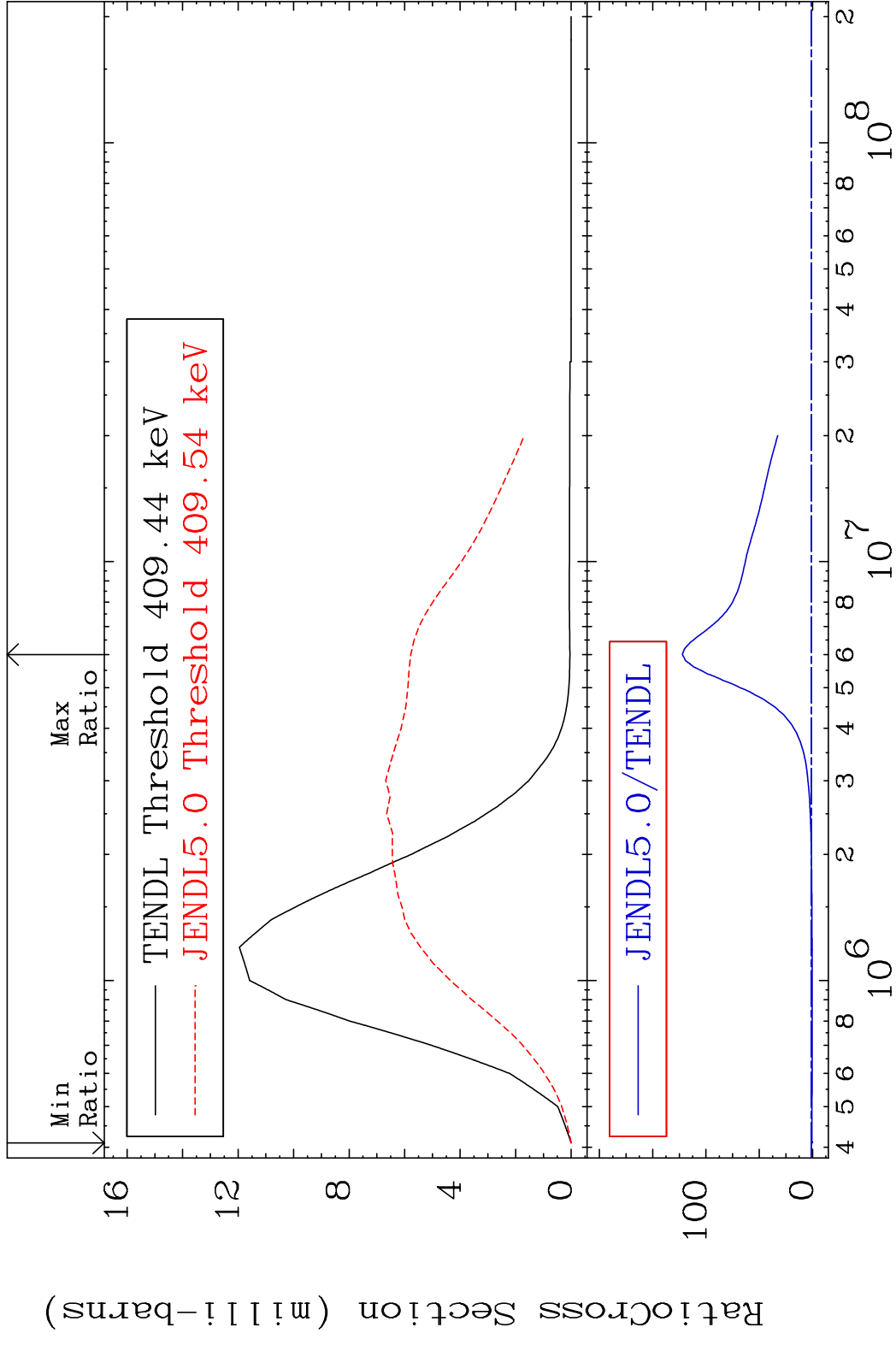




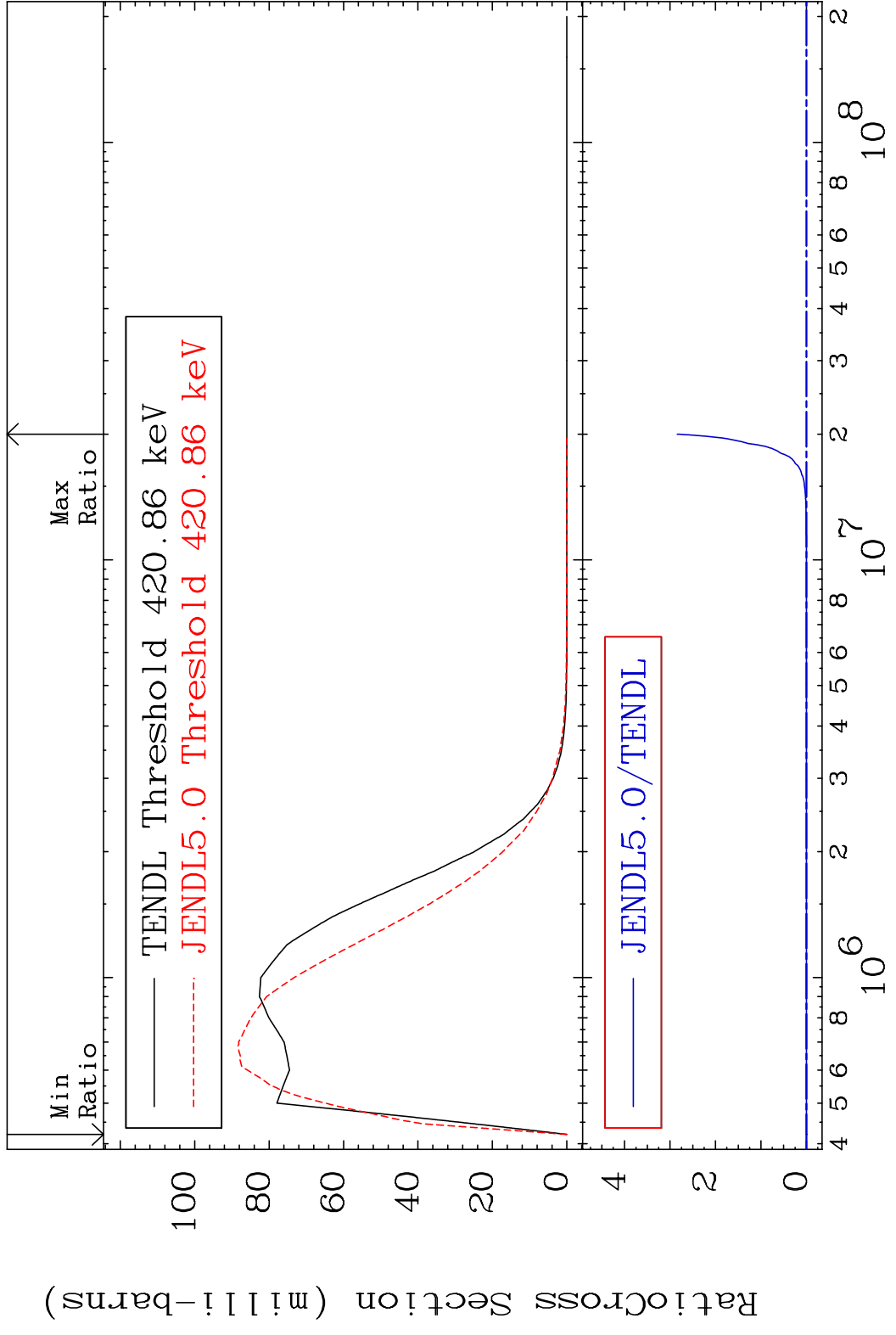
MAT 6640 MT= 63 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



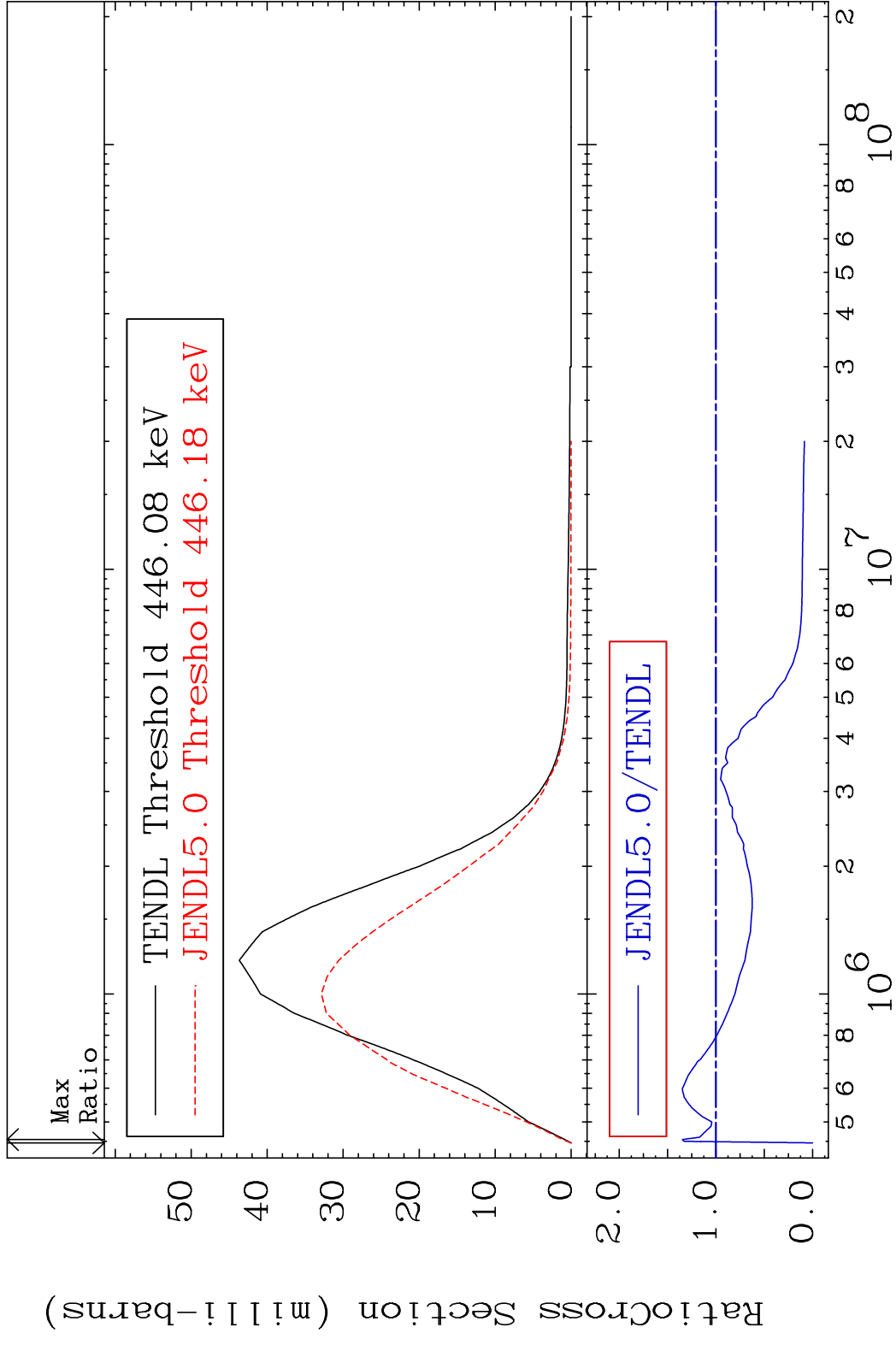
MAT 6640 MT= 64 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



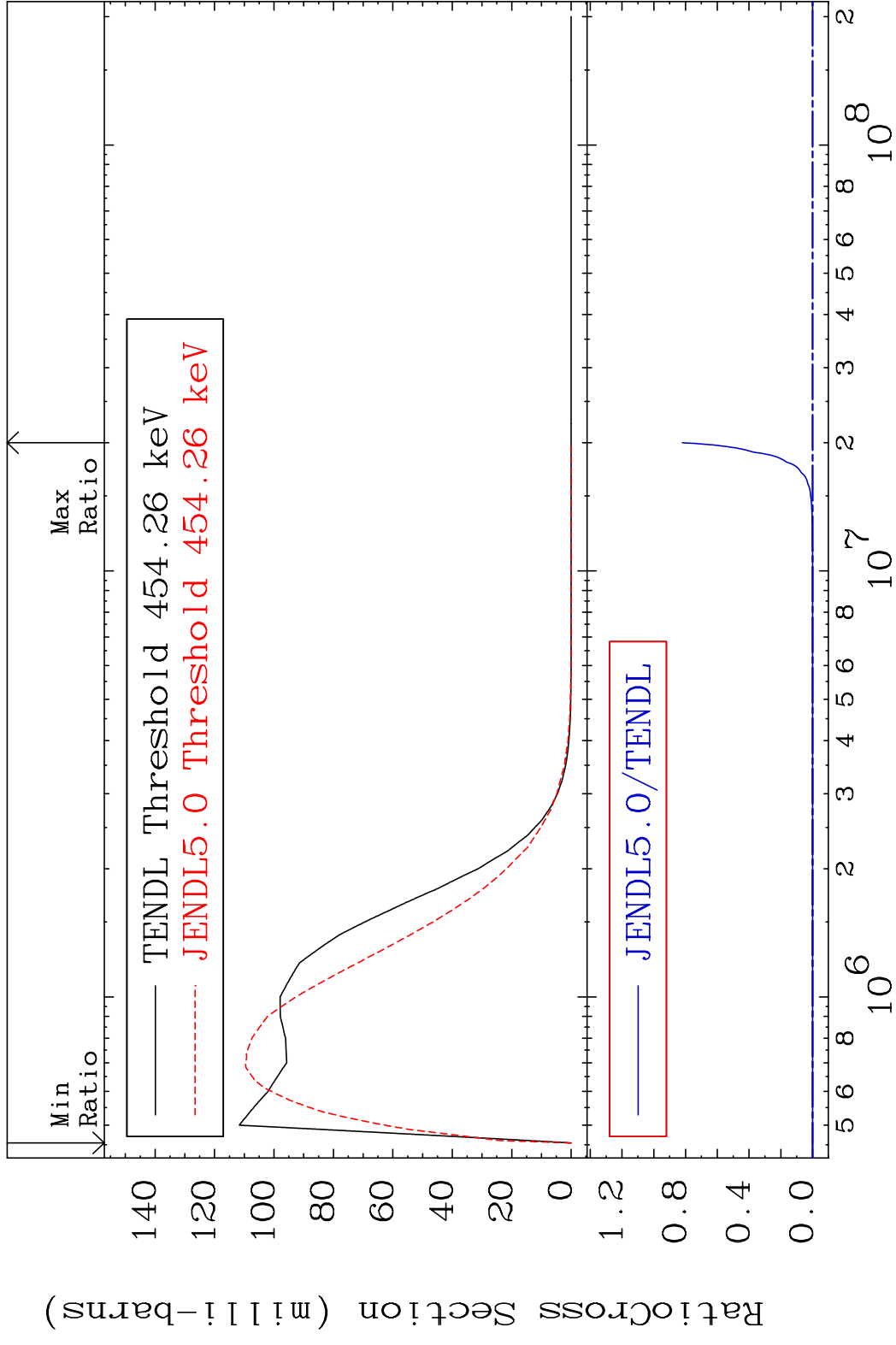
MAT 6640 MT= 65 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



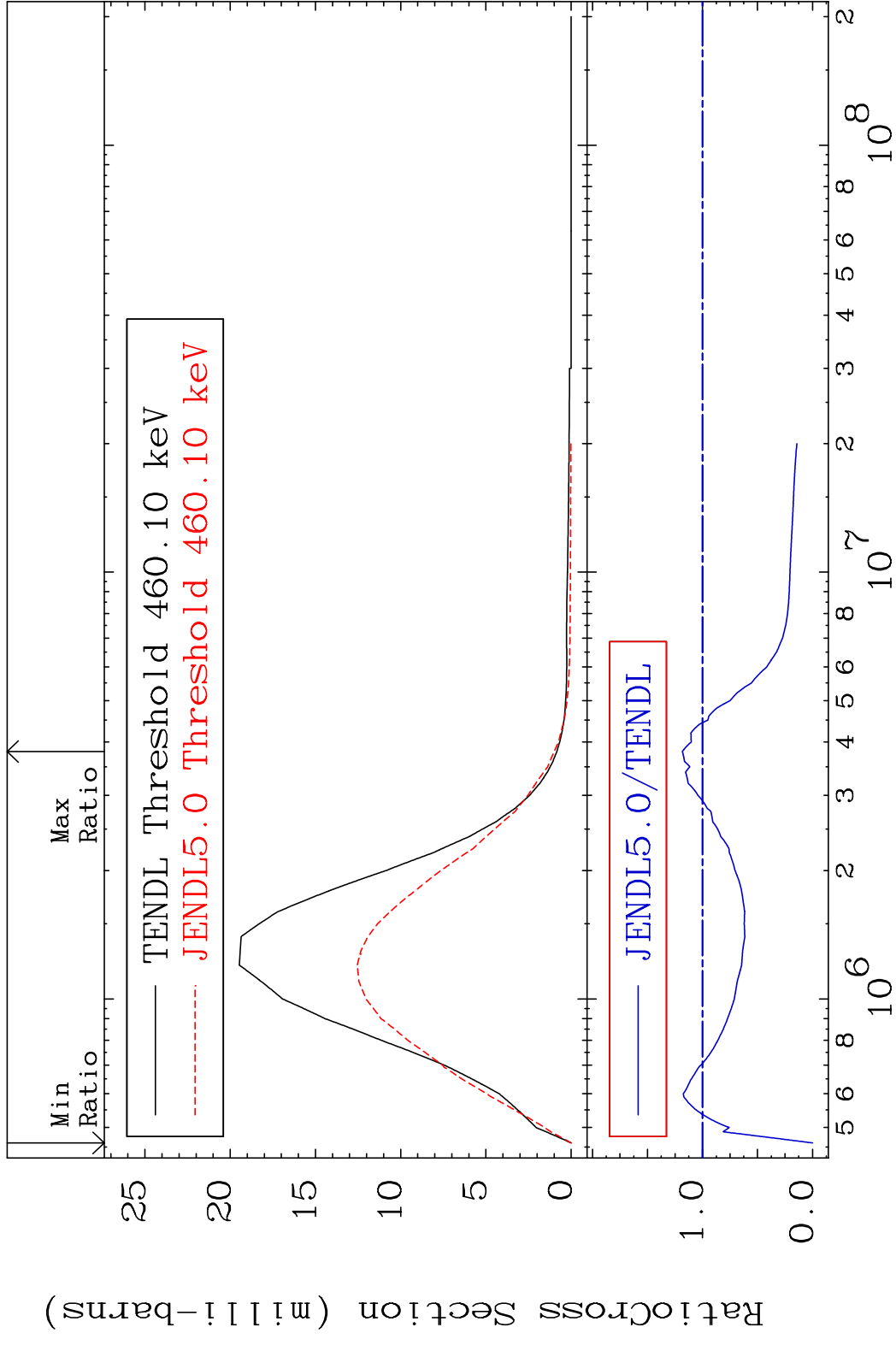
MAT 6640 MT= 66 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 34.76 %



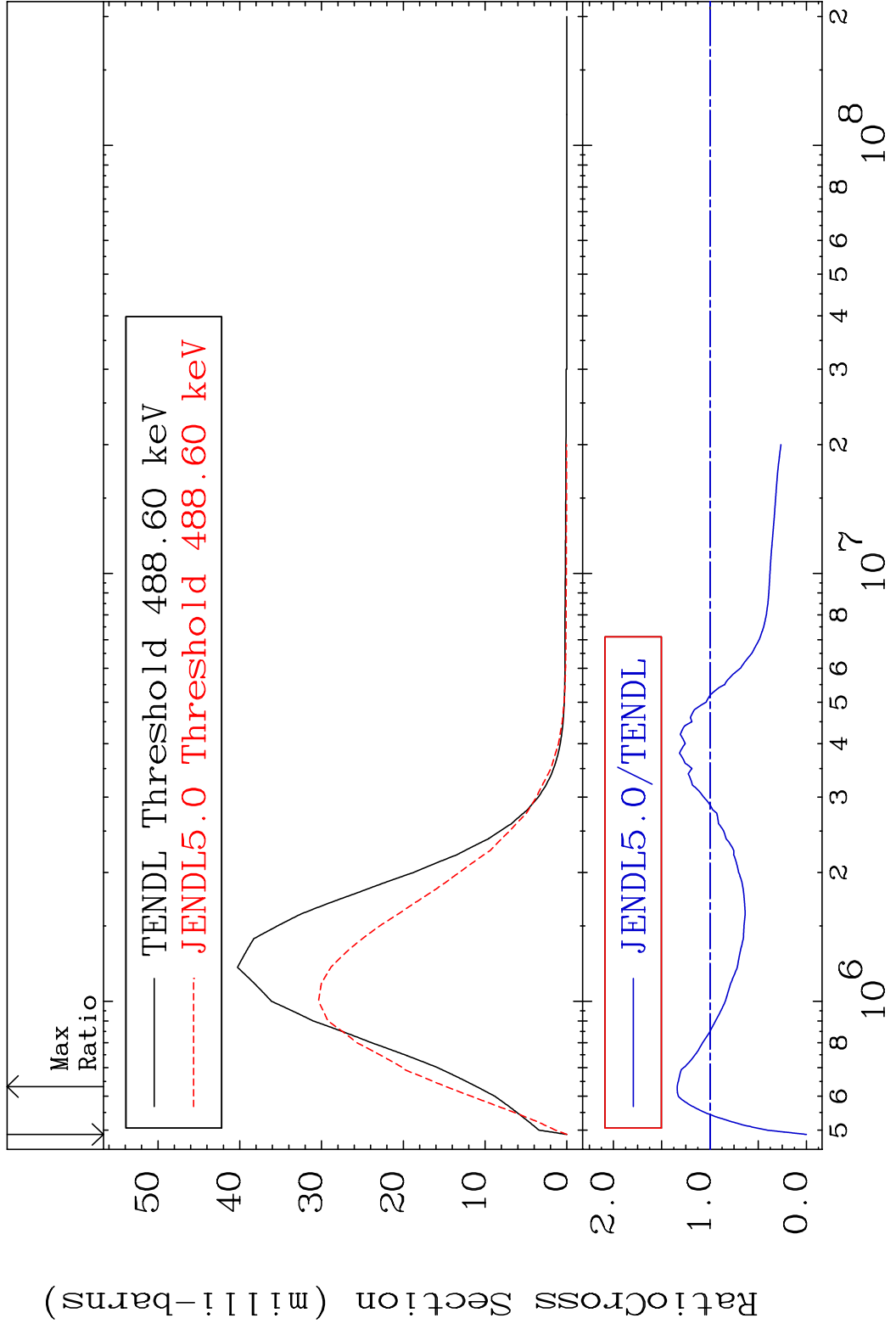
MAT 6640 MT= 67 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



MAT 6640 MT= 68 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 18.30 %

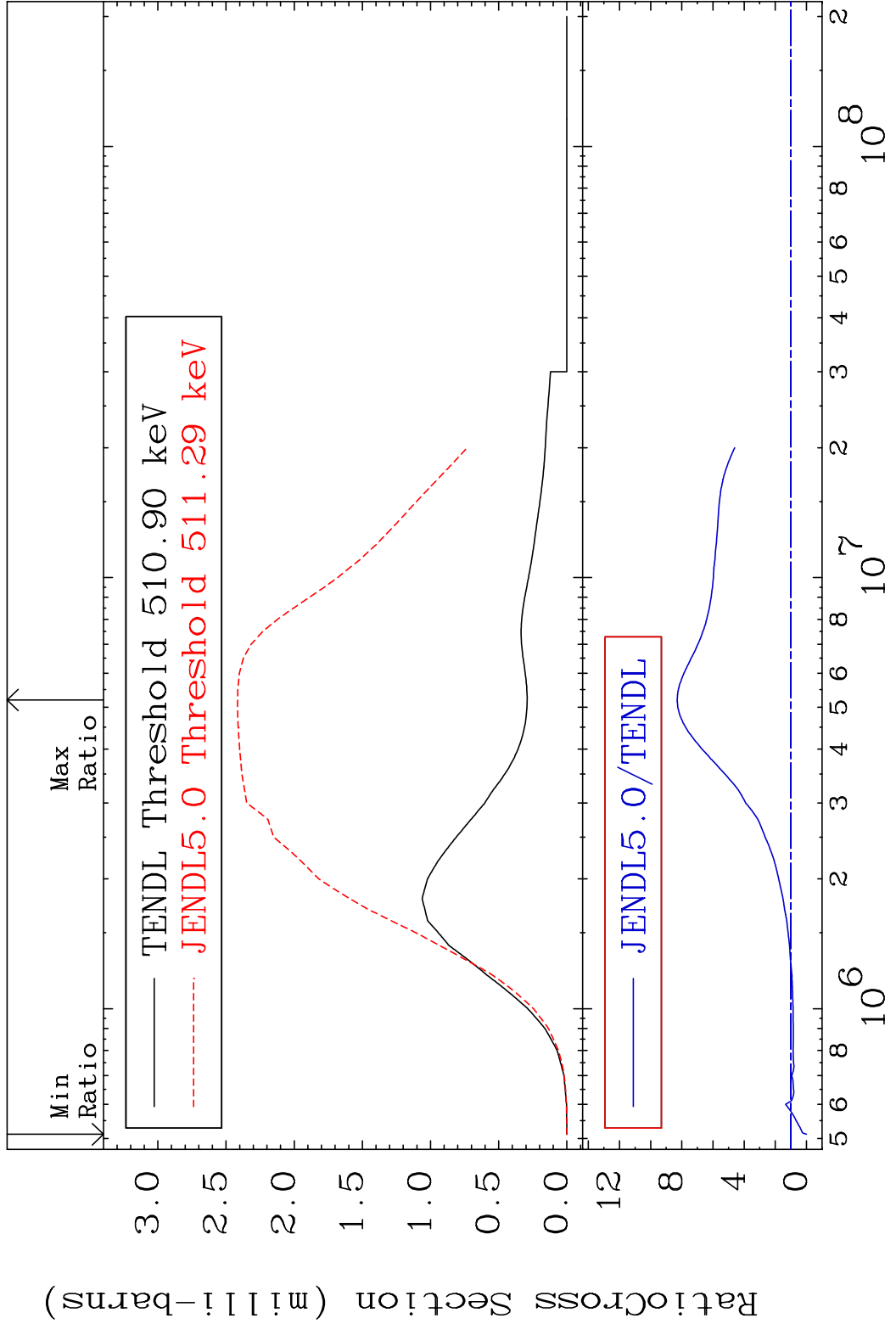


MAT 6640 MT= 69 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 33.96 %



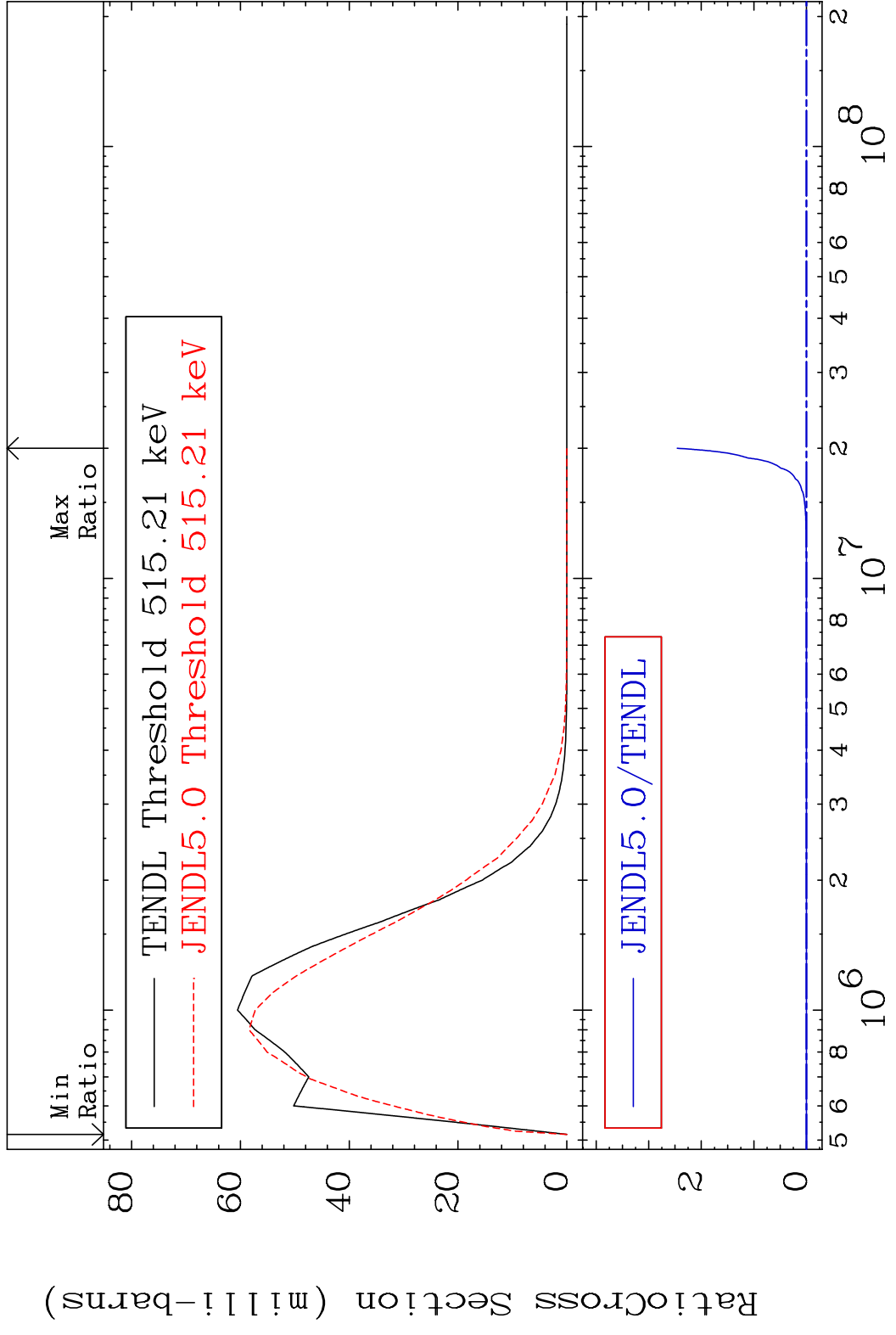
30 Incident Energy (eV) 66-Dy-161

MAT 6640 MT= 70 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 729.7 %

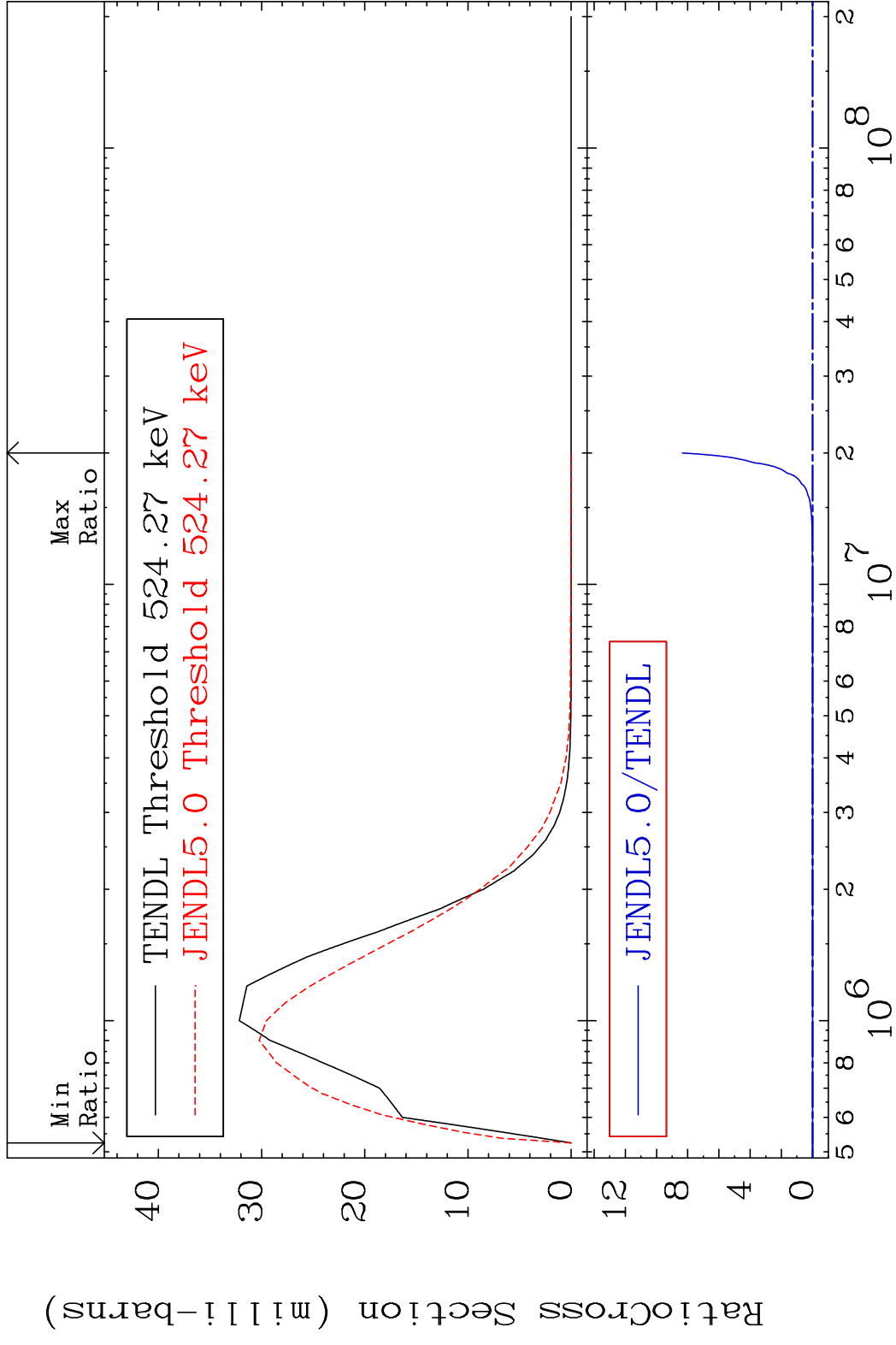




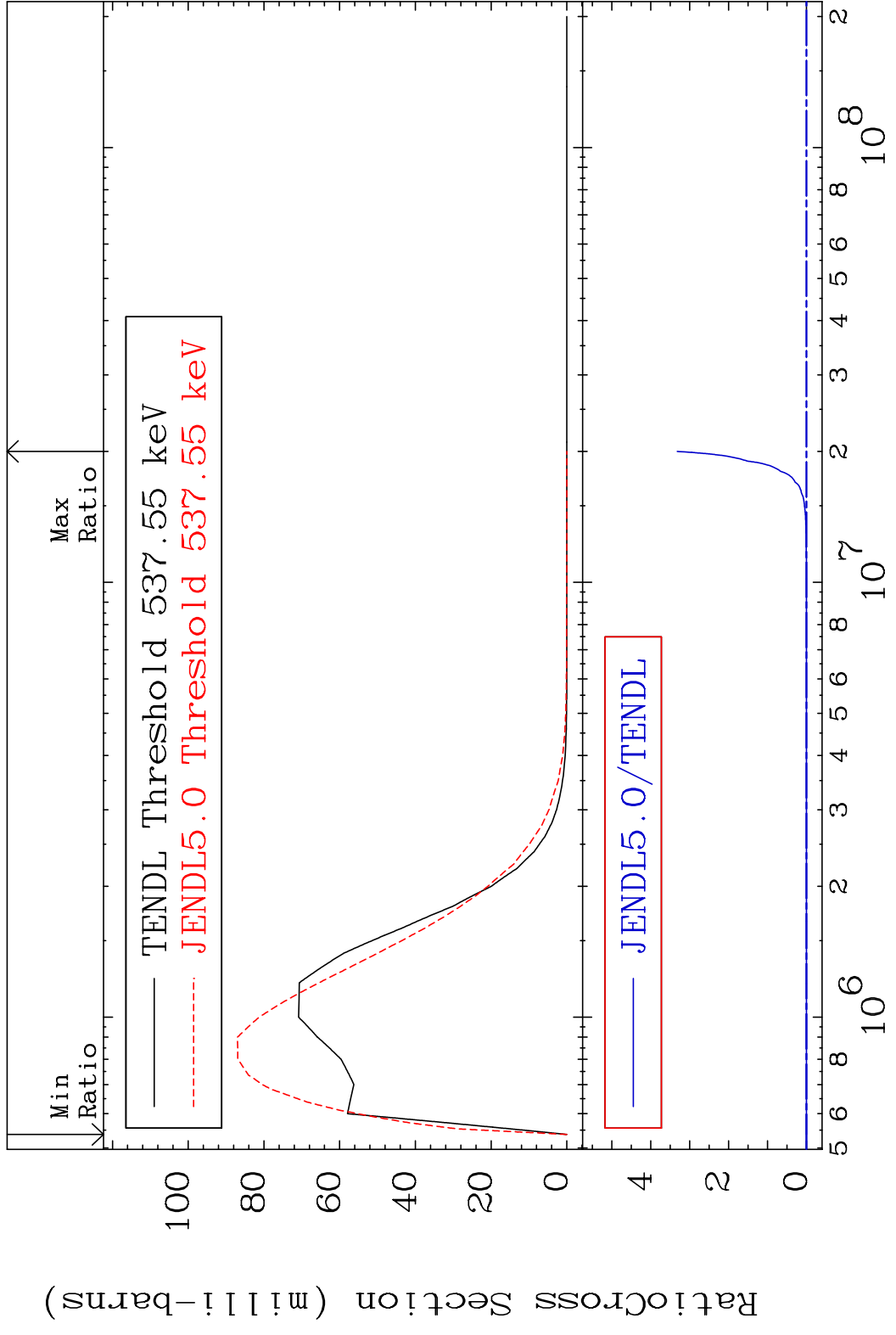
MAT 6640 MT= 71 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



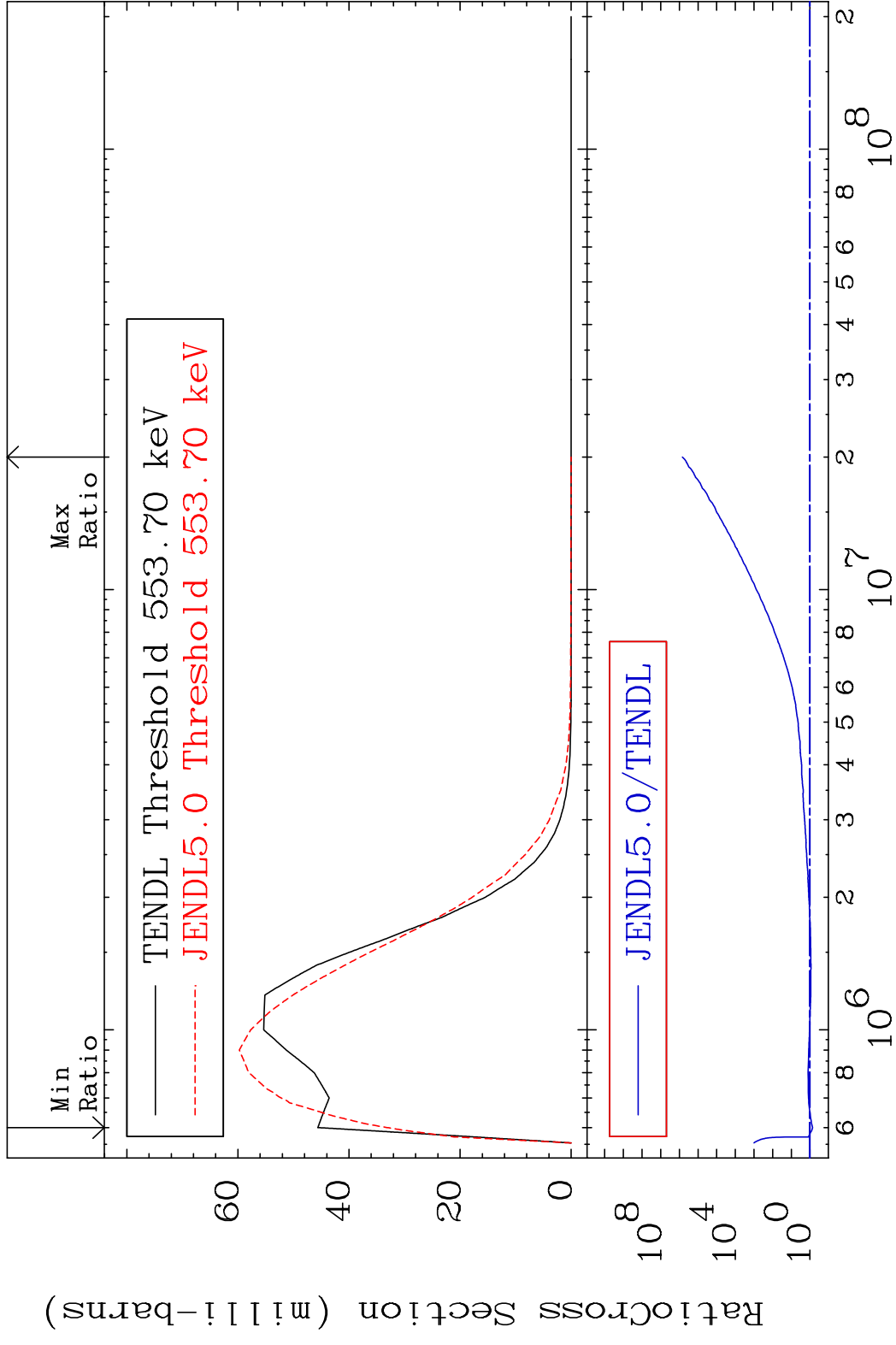
MAT 6640 MT= 72 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



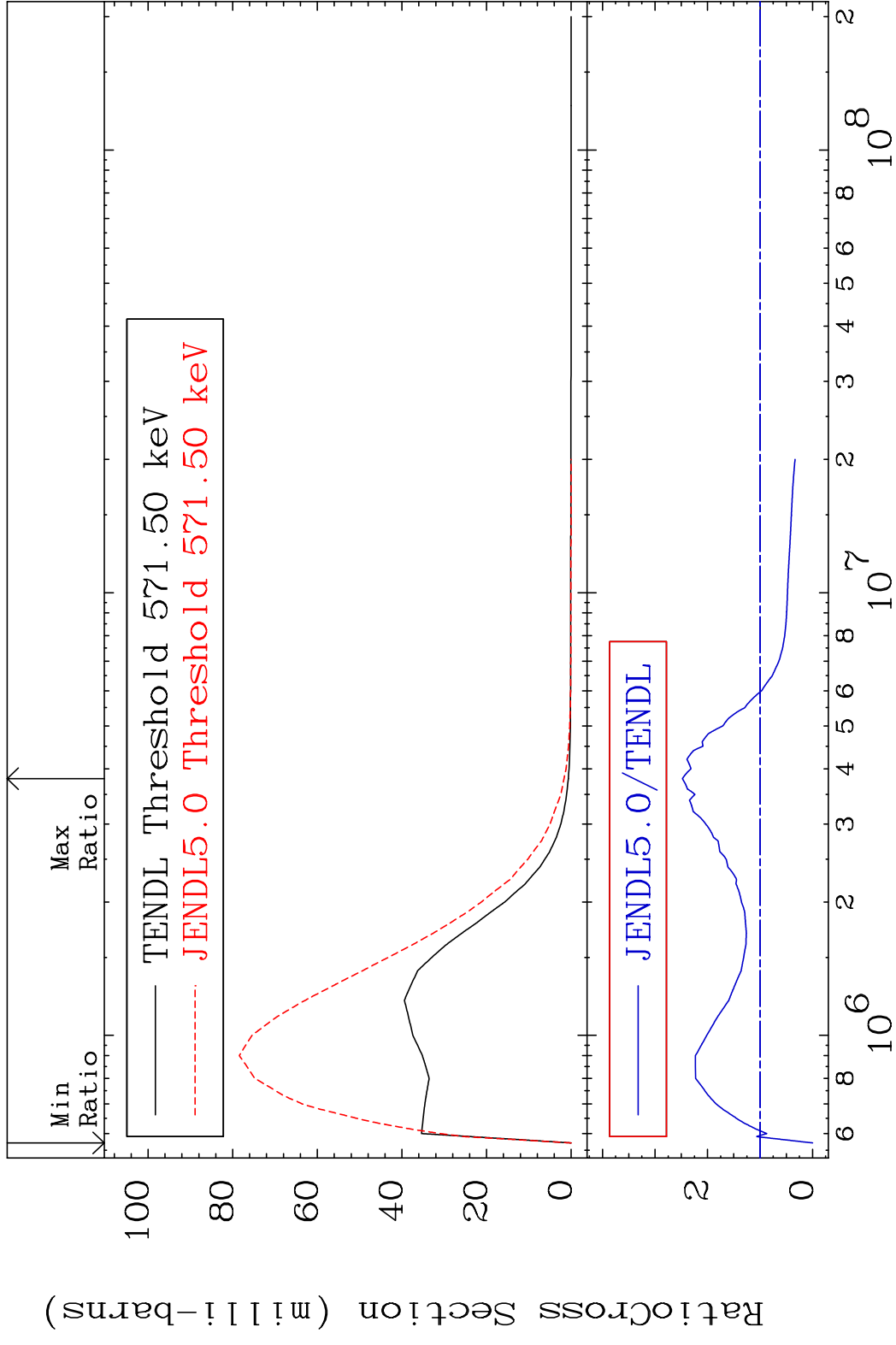
MAT 6640 MT= 73 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



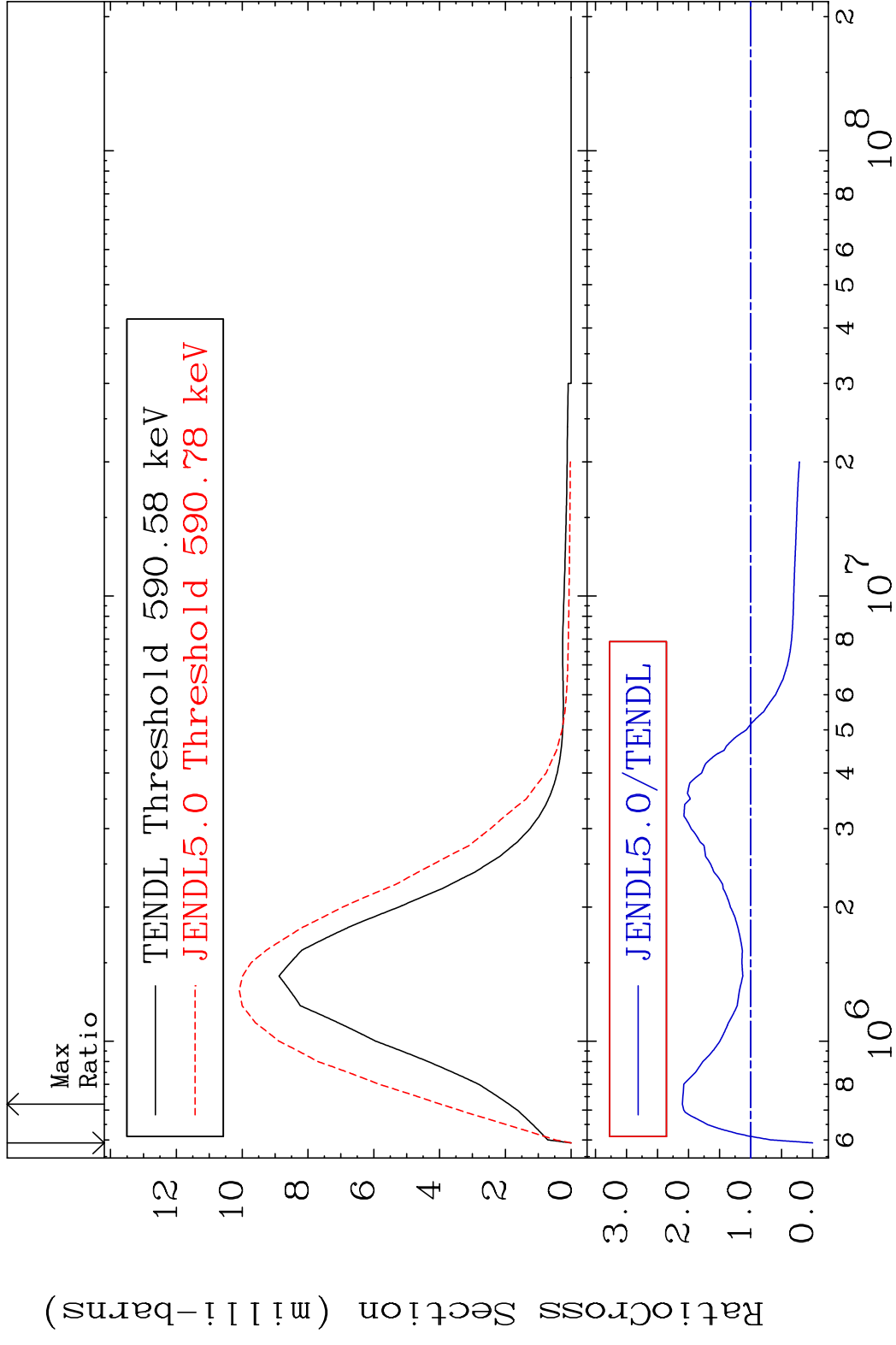
MAT 6640 MT= 74 (n, n') Level 66-Dy-161  
 Cross Section -27.33 To 9999. %



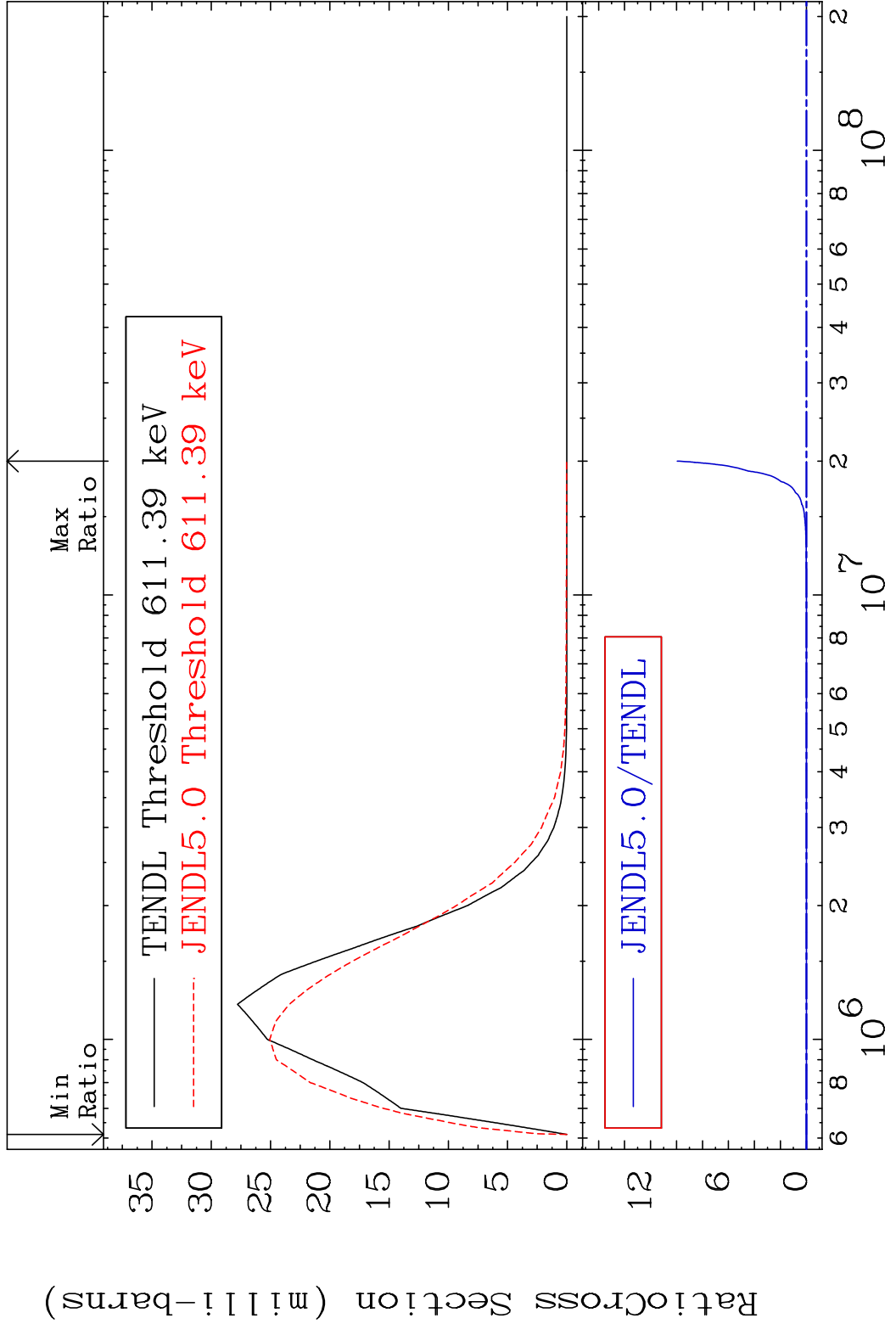
MAT 6640 MT= 75 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 148.0 %



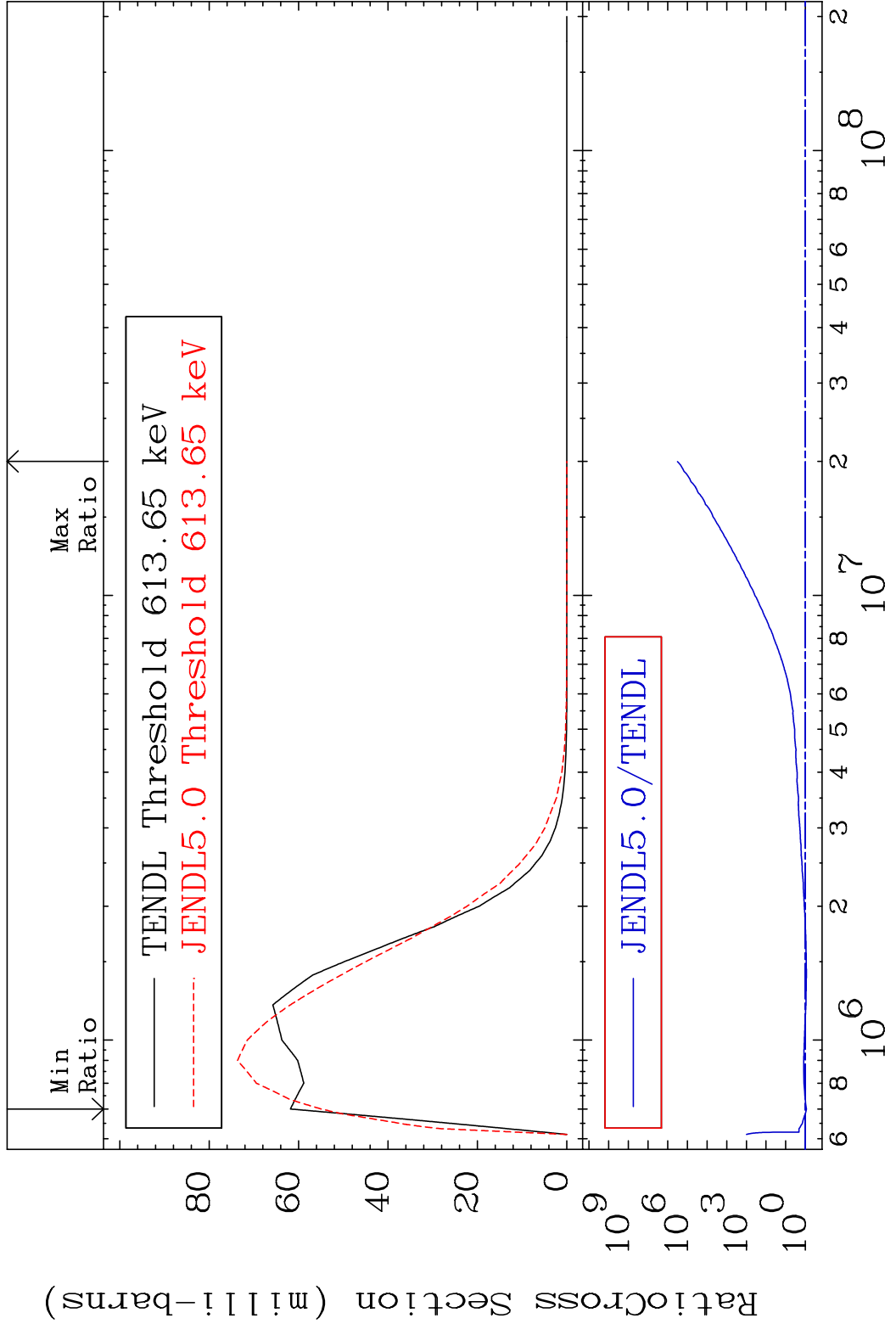
MAT 6640 MT= 76 (n,n') Level 66-Dy-161  
 Cross Section -100.0 To 109.9 %



MAT 6640 MT= 77 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %

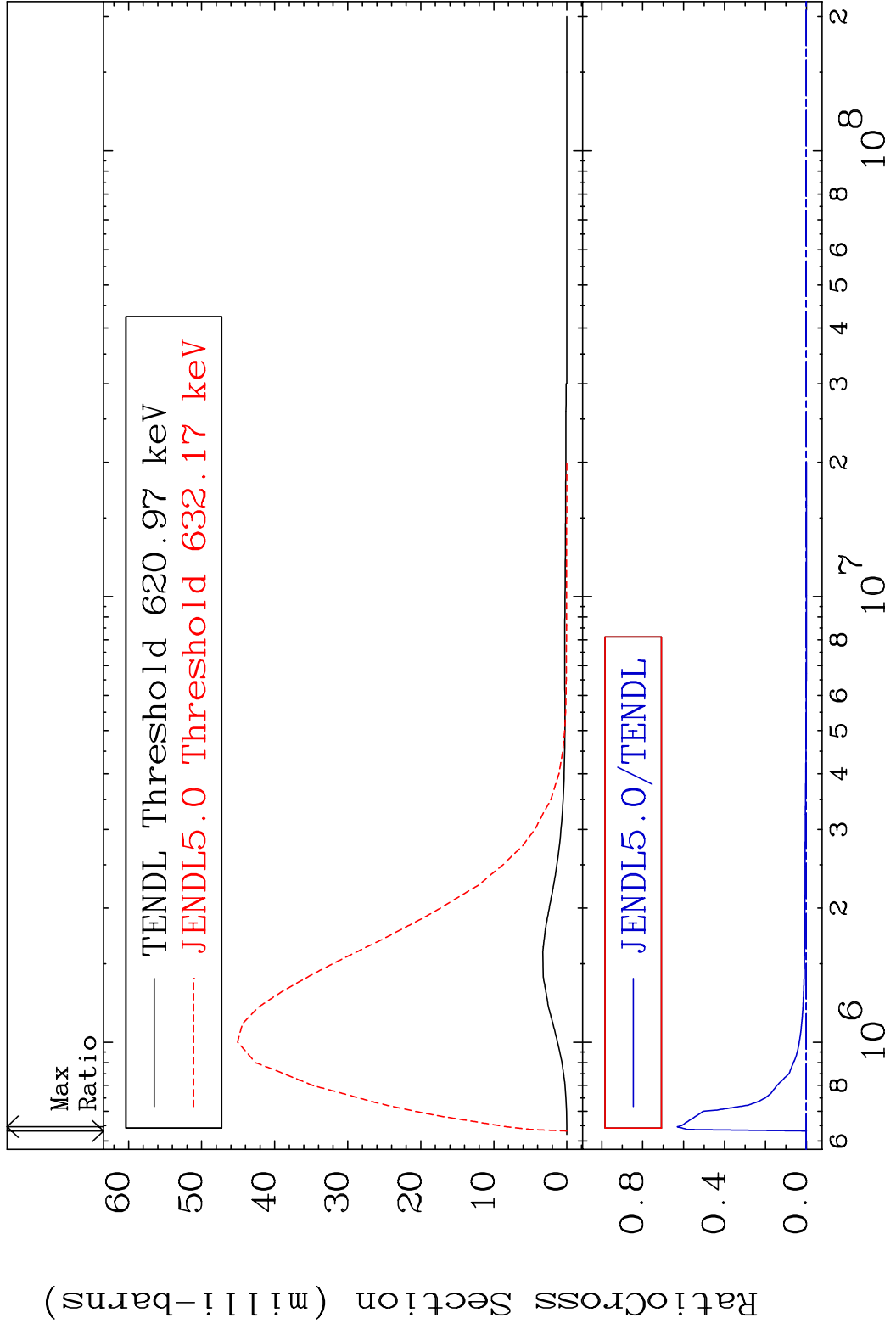


MAT 6640 MT= 78 (n, n') Level 66-Dy-161  
 Cross Section -11.13 To 9999. %



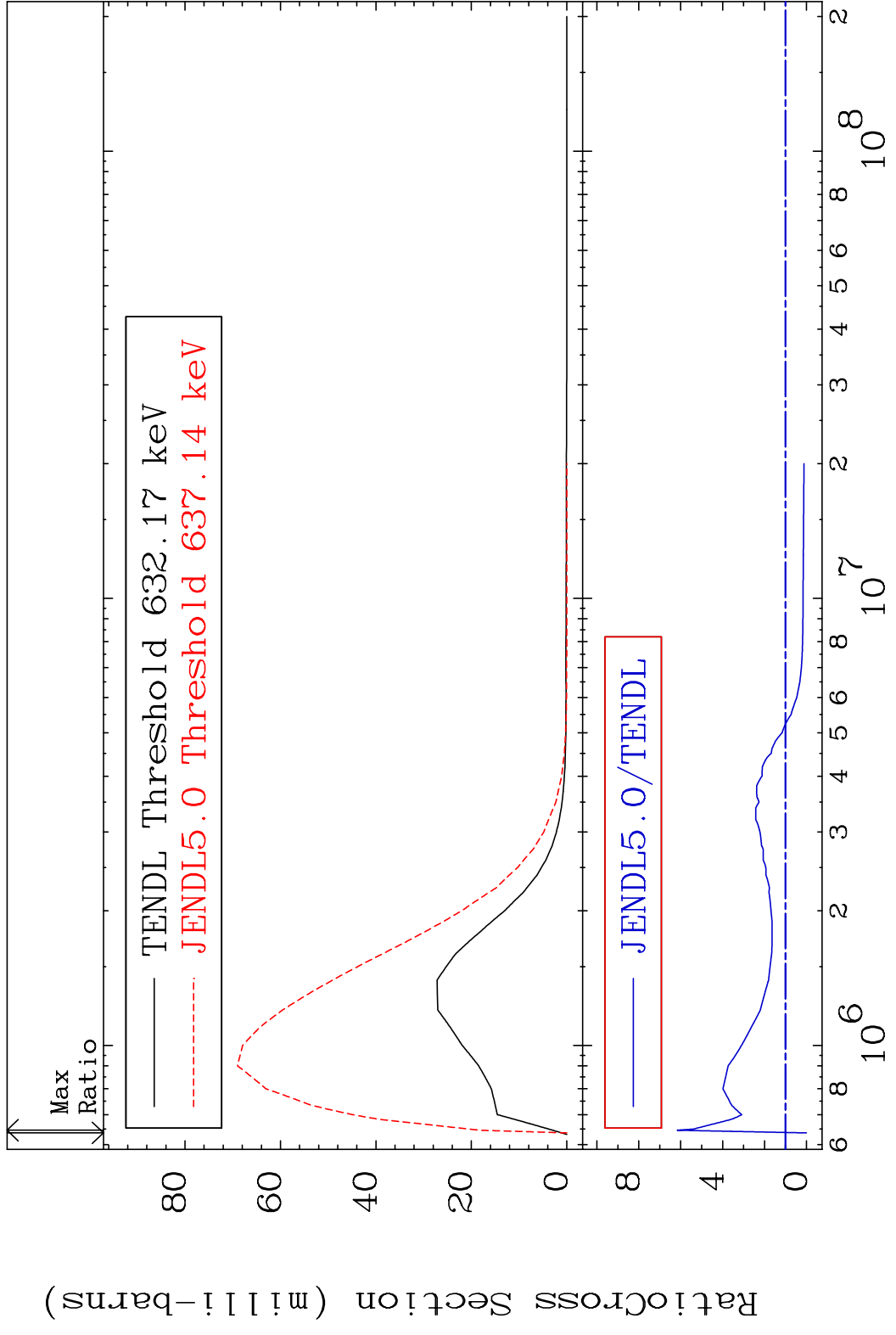


MAT 6640 MT= 79 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 9999. %



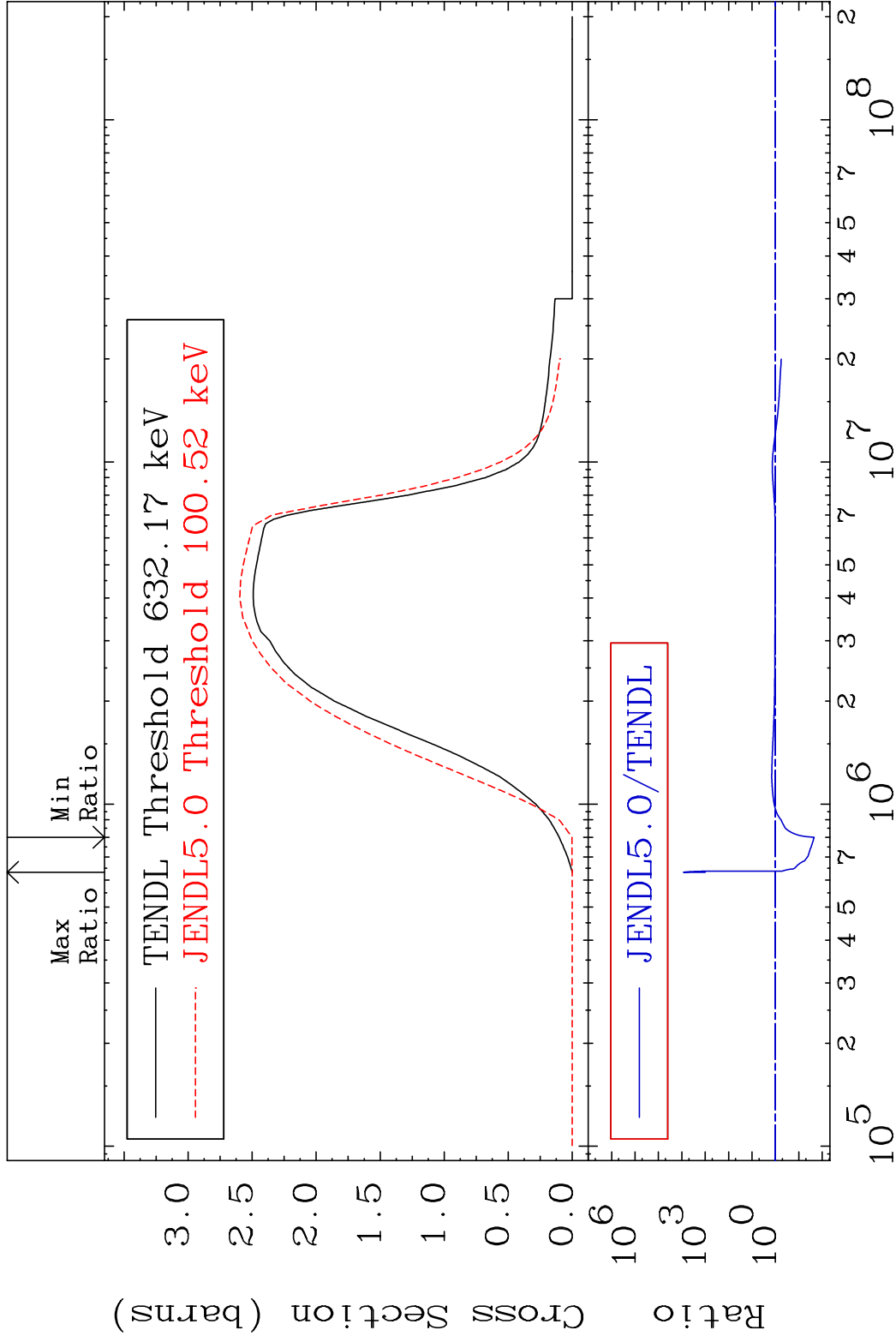
40 Incident Energy (eV) 66-Dy-161

MAT 6640 MT= 80 (n, n') Level 66-Dy-161  
 Cross Section -100.0 To 516.9 %



MAT 6640

(n, n') Continuum 66-Dy-161  
Cross Section -97.78 To 9999. %



42

Incident Energy (eV)

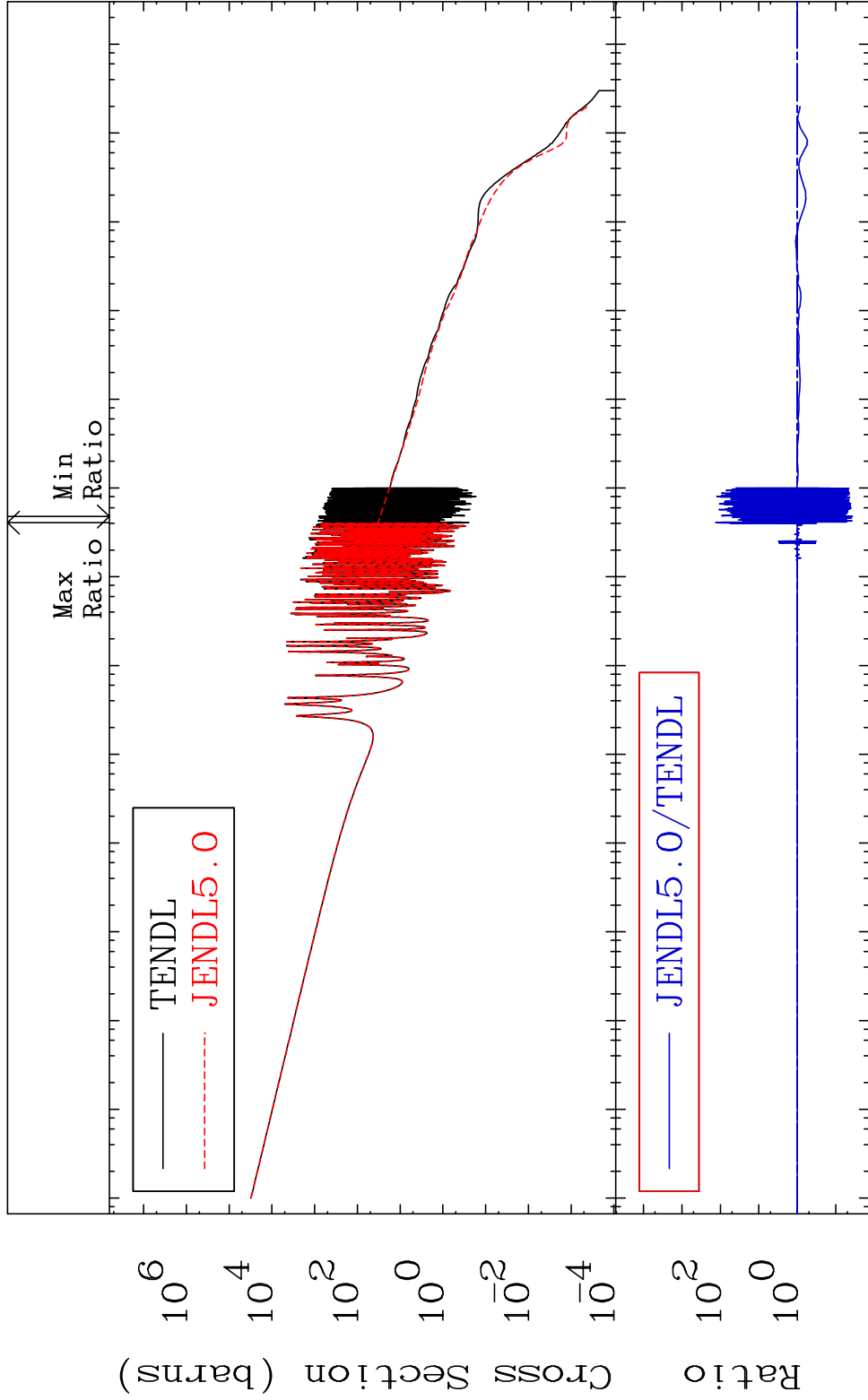
66-Dy-161

MAT 6640

(n,  $\gamma$ )

66-Dy-161

Cross Section -96.26 To 9999. %



43

Incident Energy (eV)

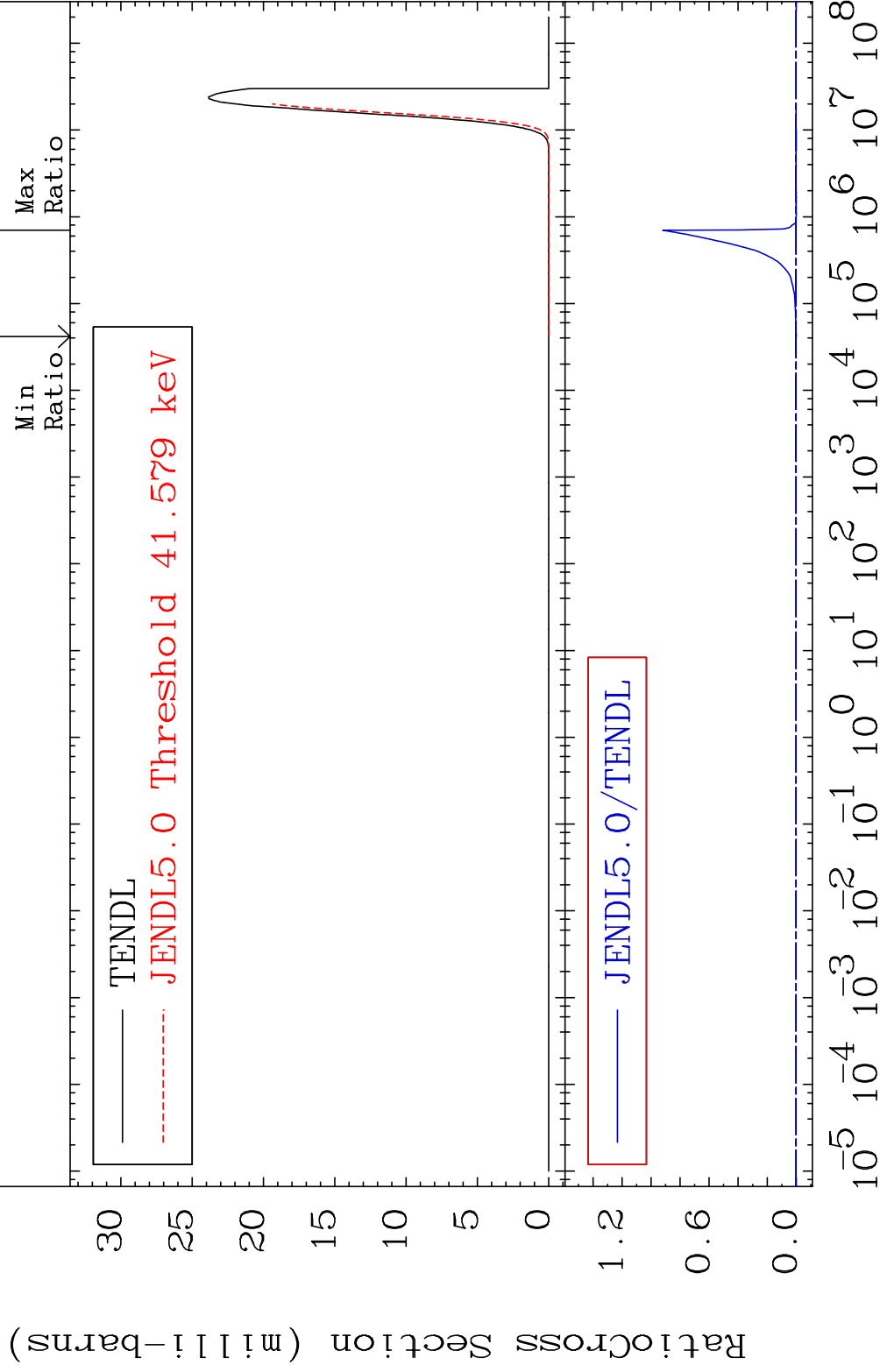
66-Dy-161

MAT 6640

(n, p)

66-Dy-161

Cross Section -100.0 To 9999. %

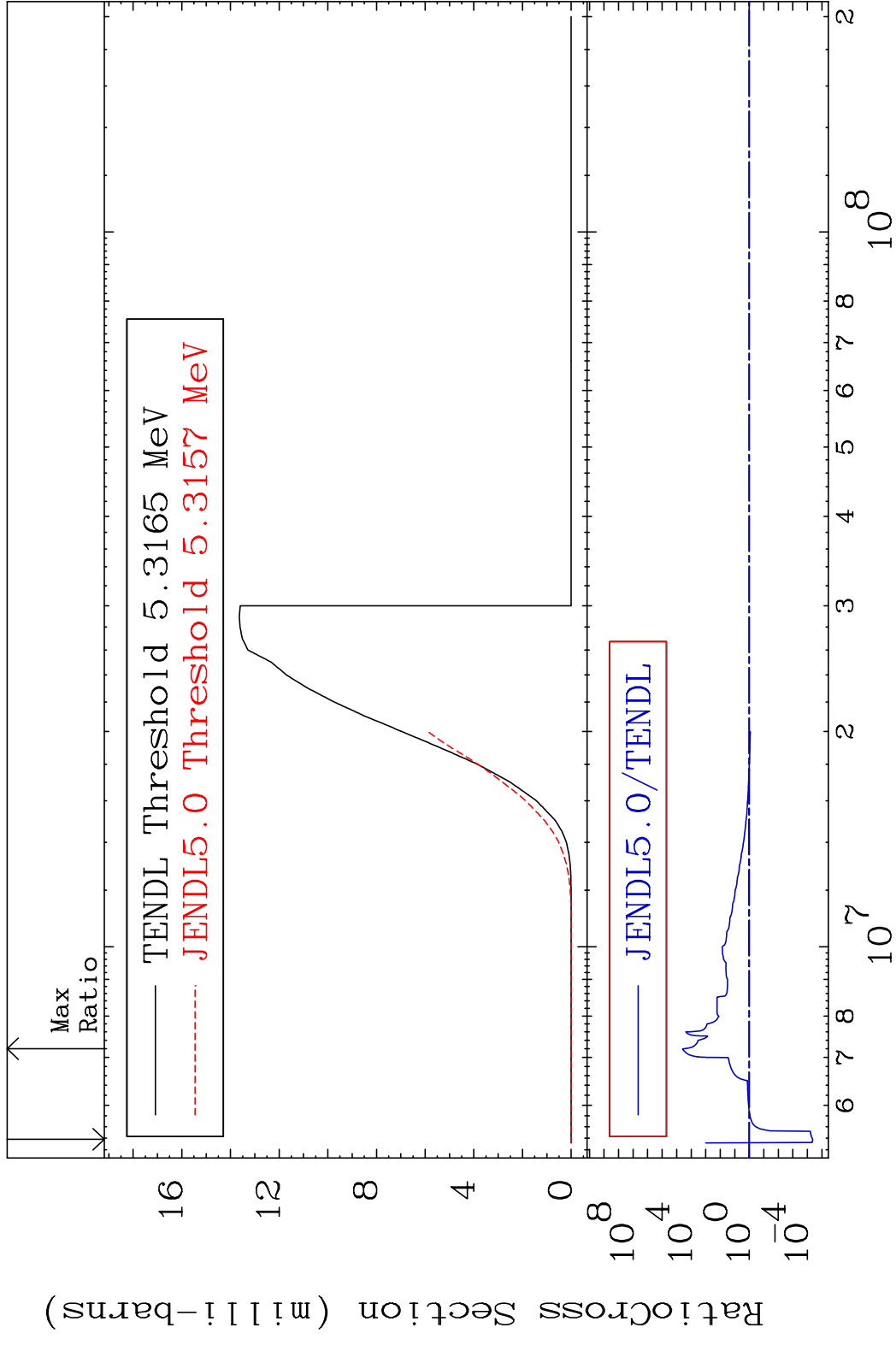


44

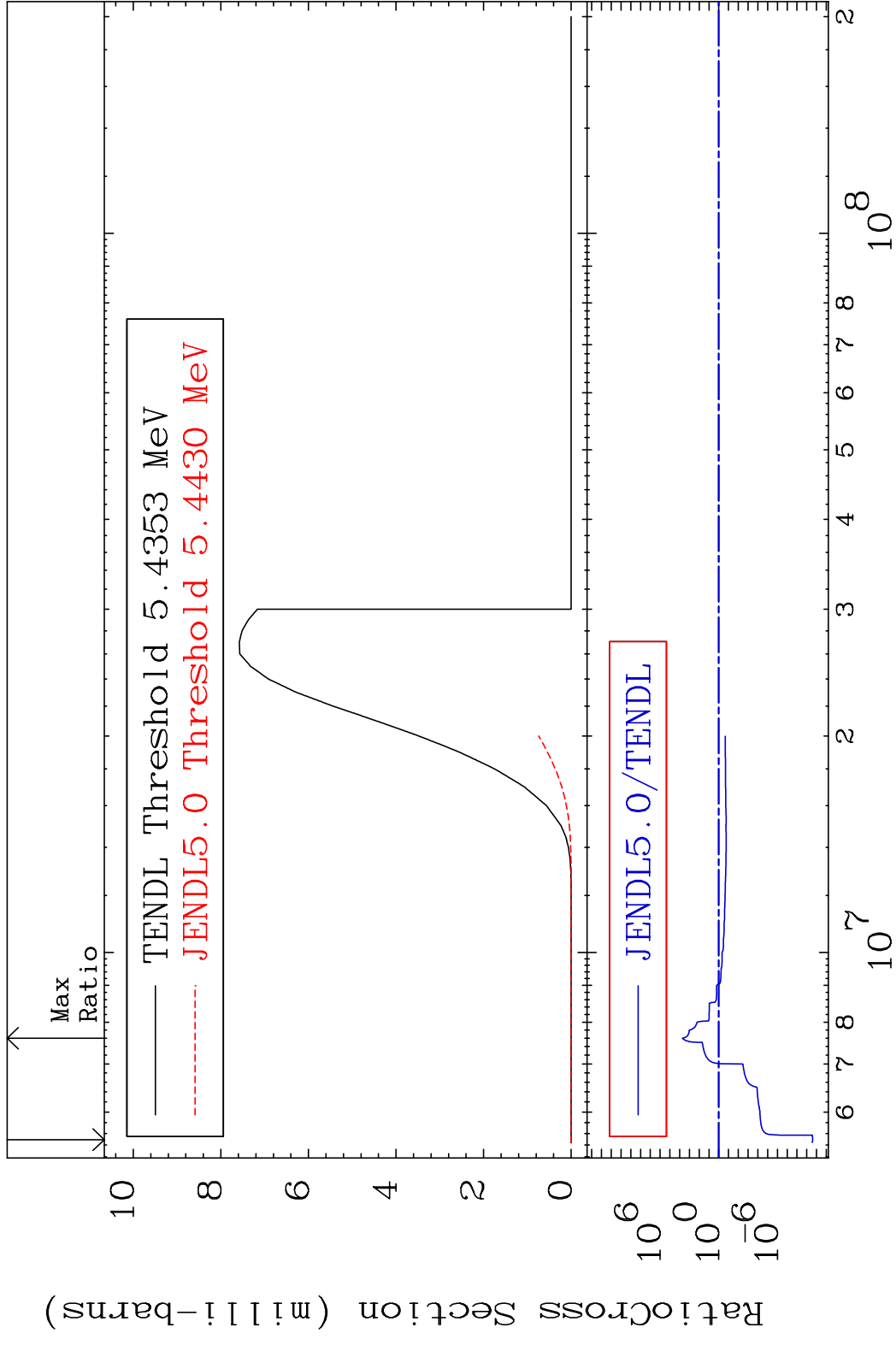
Incident Energy (eV)

66-Dy-161

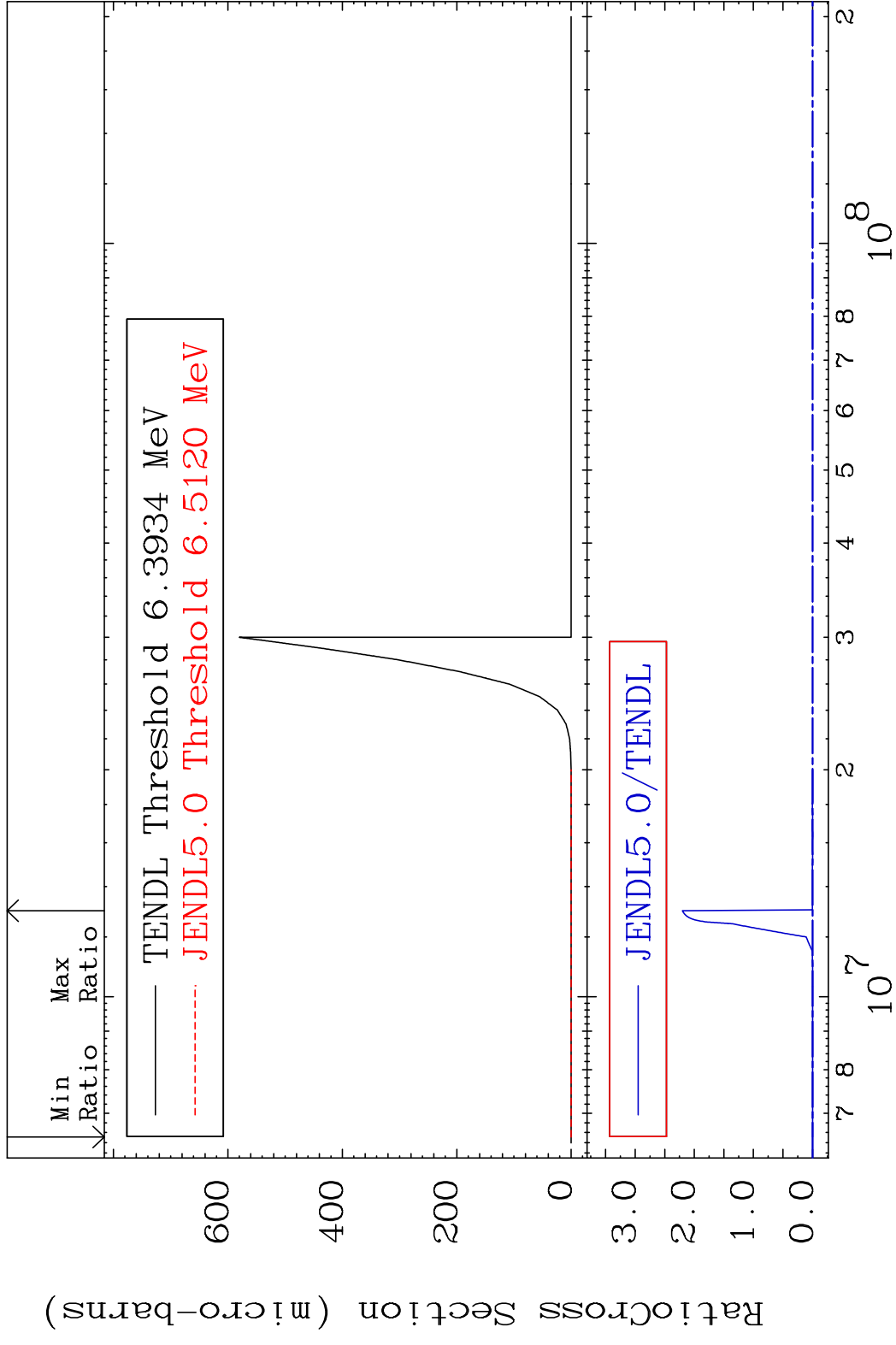
MAT 6640 (n,d) 66-Dy-161  
 Cross Section -100.0 To 9999. %



MAT 6640 (n, t) 66-Dy-161  
 Cross Section -100.0 To 9999. %



MAT 6640 (n, He-3) 66-Dy-161  
 Cross Section -100.0 To 9999. %



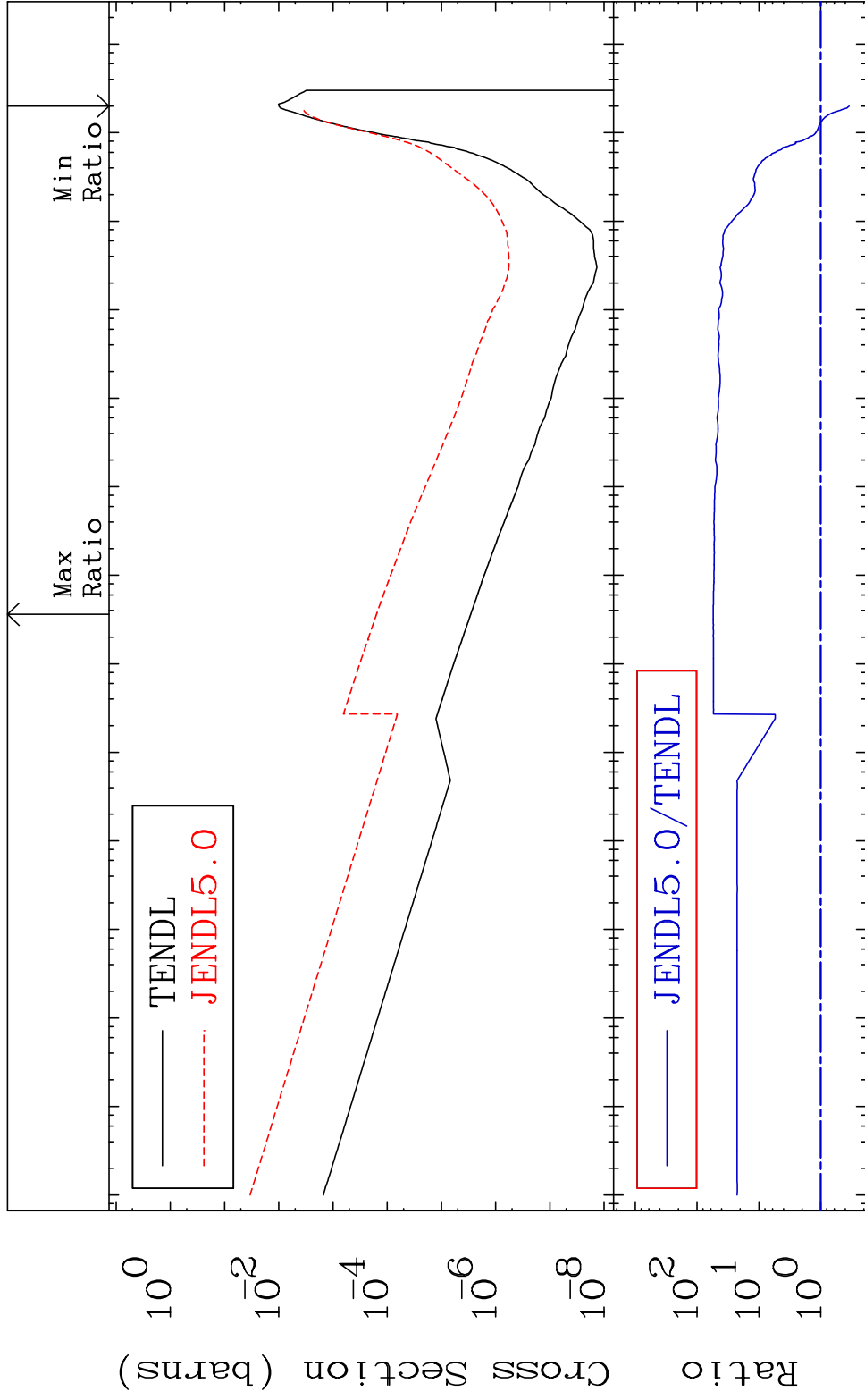


MAT 6640

(n,  $\alpha$ )

Cross Section -65.53 To 5387. %

66-Dy-161



48

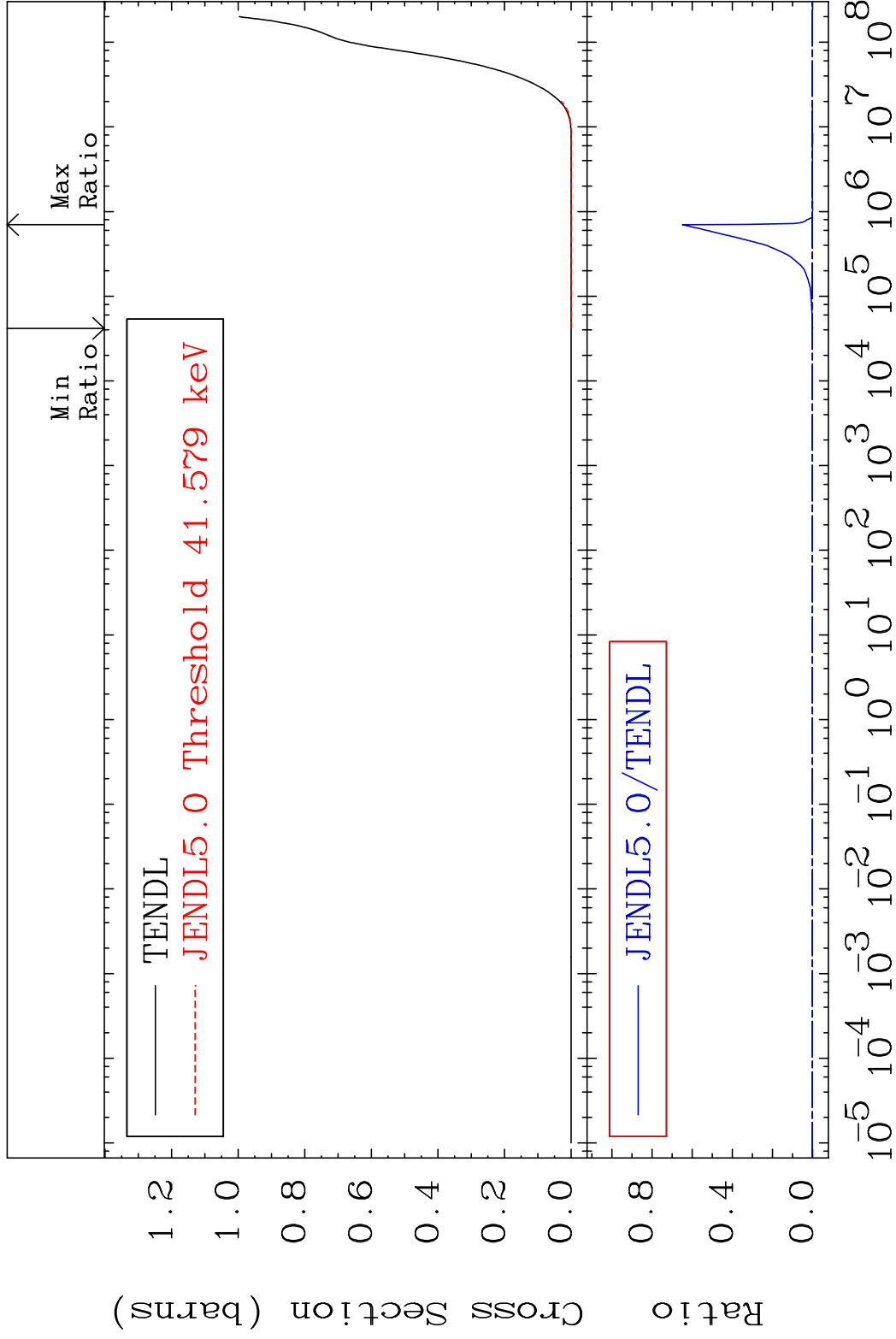
Incident Energy (eV)

66-Dy-161

MAT 6640

Hydrogen Production  
Cross Section -100.0 To 9999. %

66-Dy-161



49

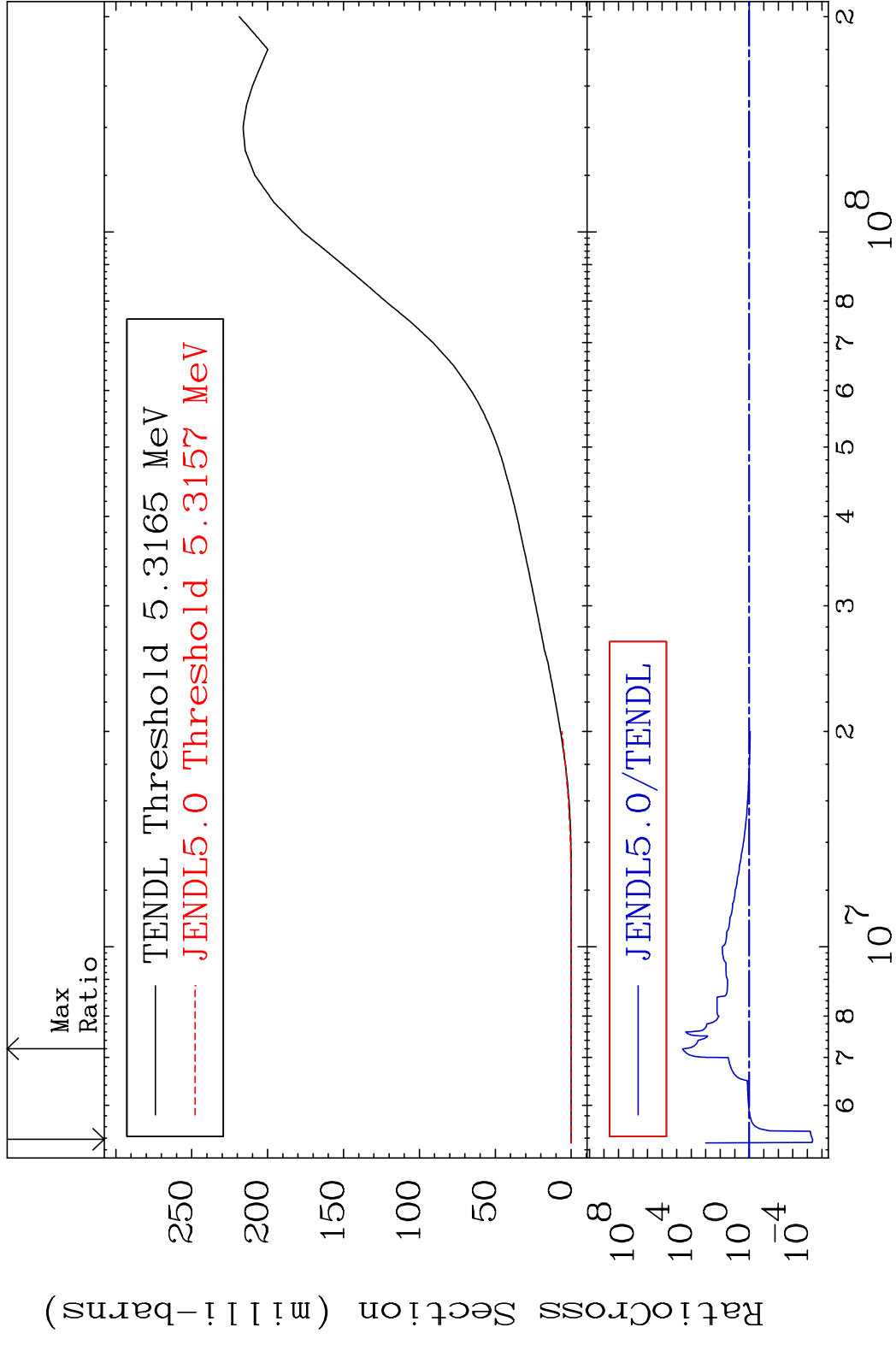
Incident Energy (eV)

66-Dy-161

MAT 6640

Deuterium Production 66-Dy-161

Cross Section -100.0 To 9999. %



50

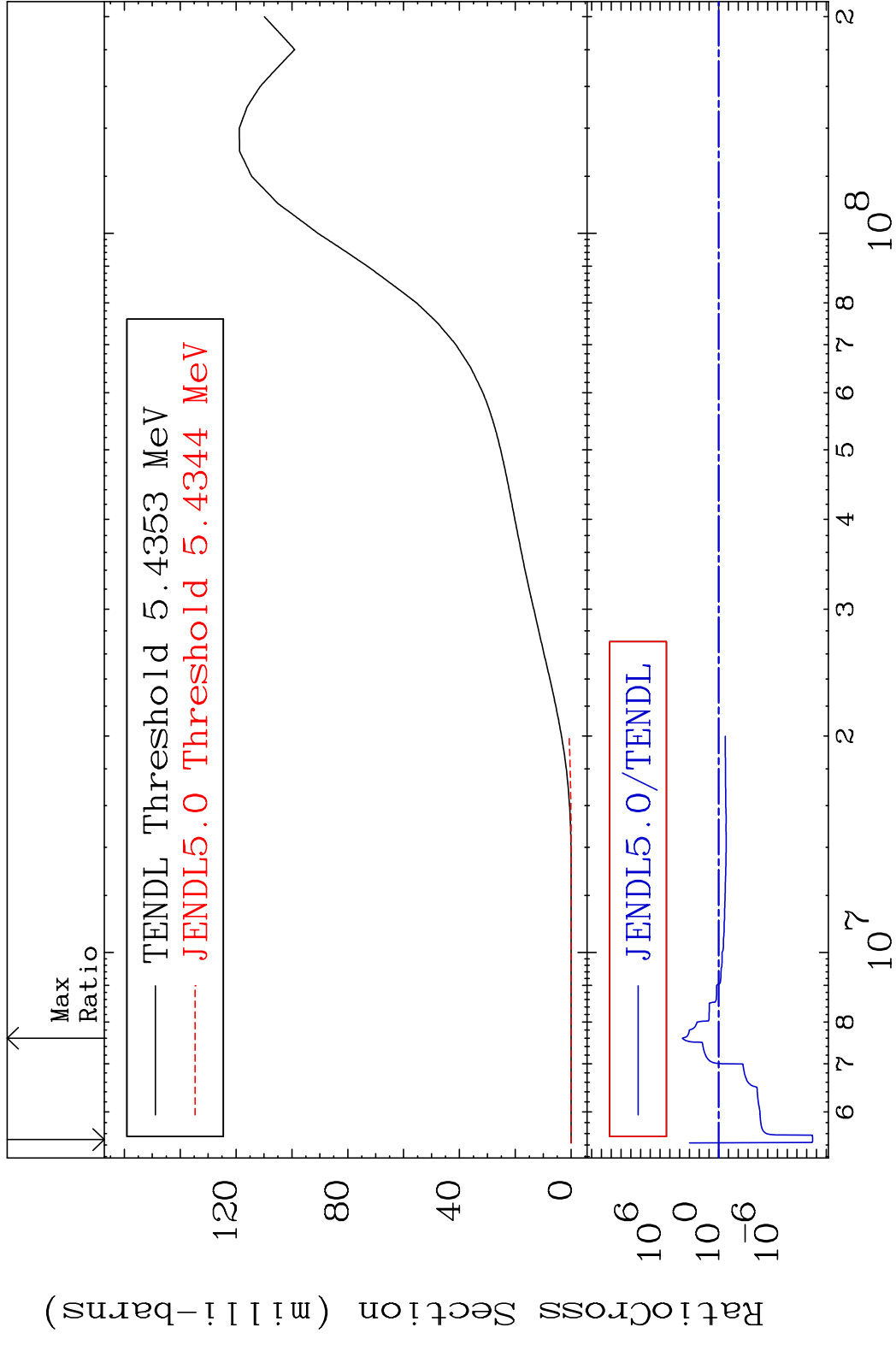
Incident Energy (eV)

66-Dy-161

MAT 6640

Tritium Production 66-Dy-161

Cross Section -100.0 To 9999. %

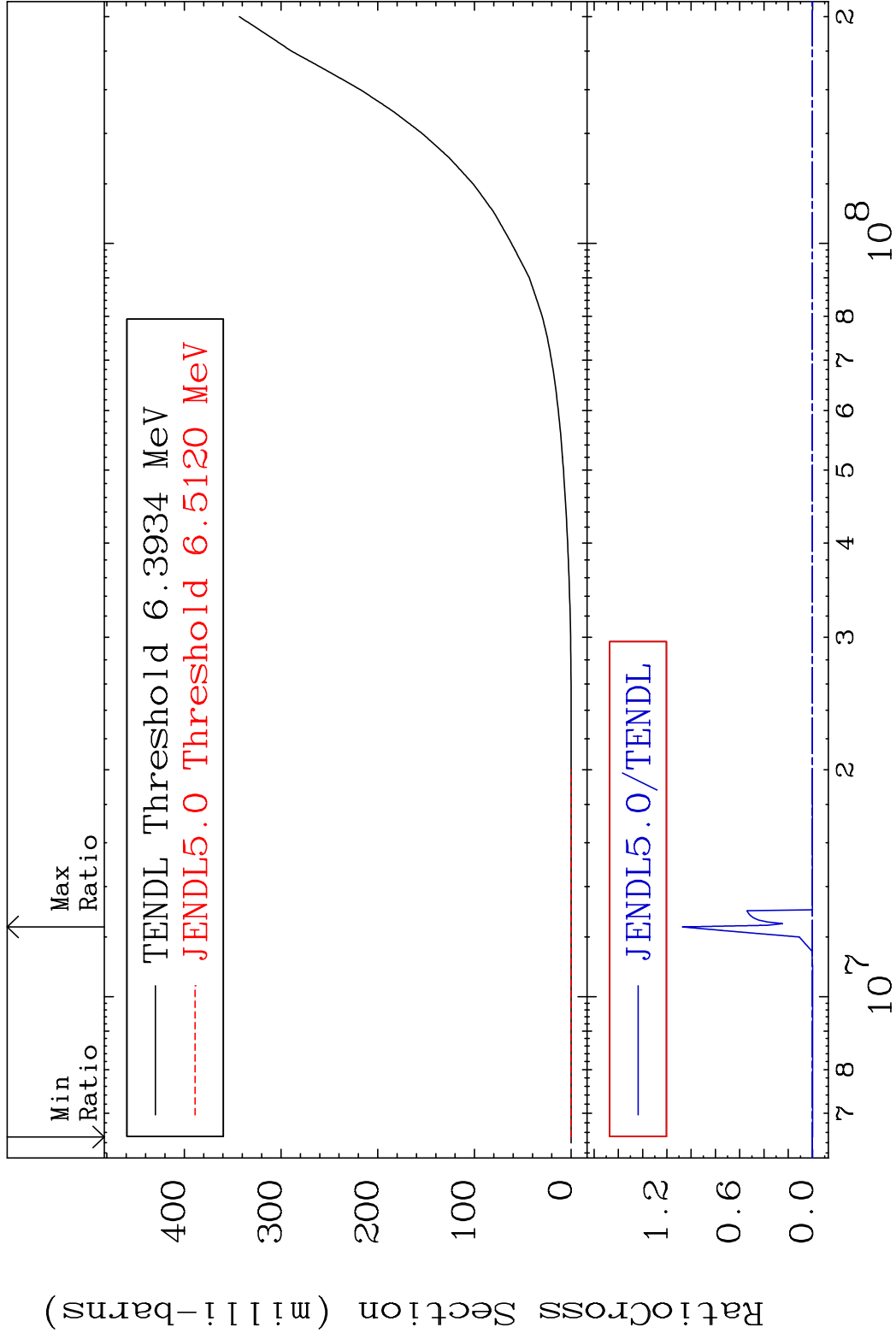


MAT 6640

He-3 Production

66-Dy-161

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

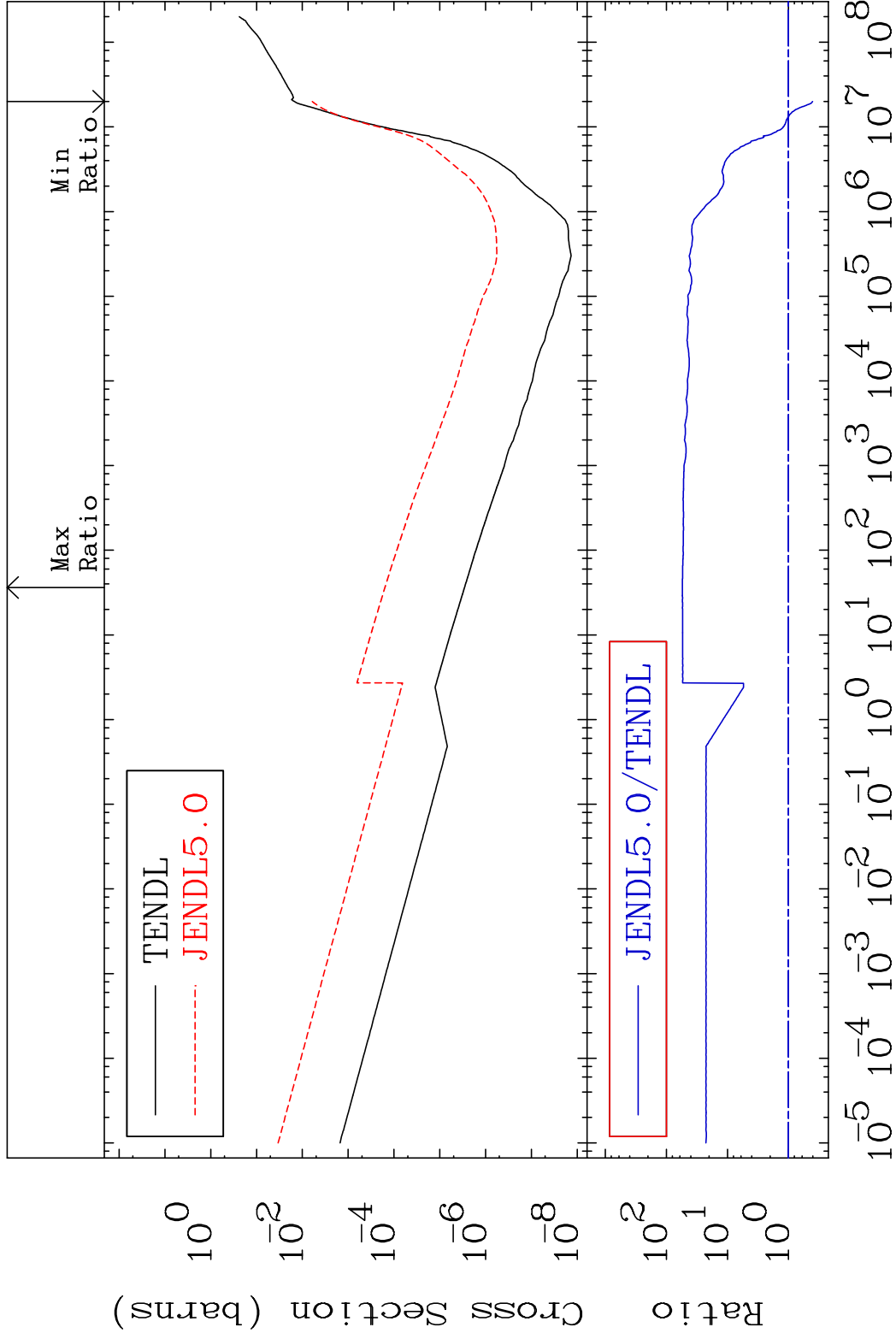
66-Dy-161

MAT 6640

He-4 Production

66-Dy-161

Cross Section -59.61 To 5387. %

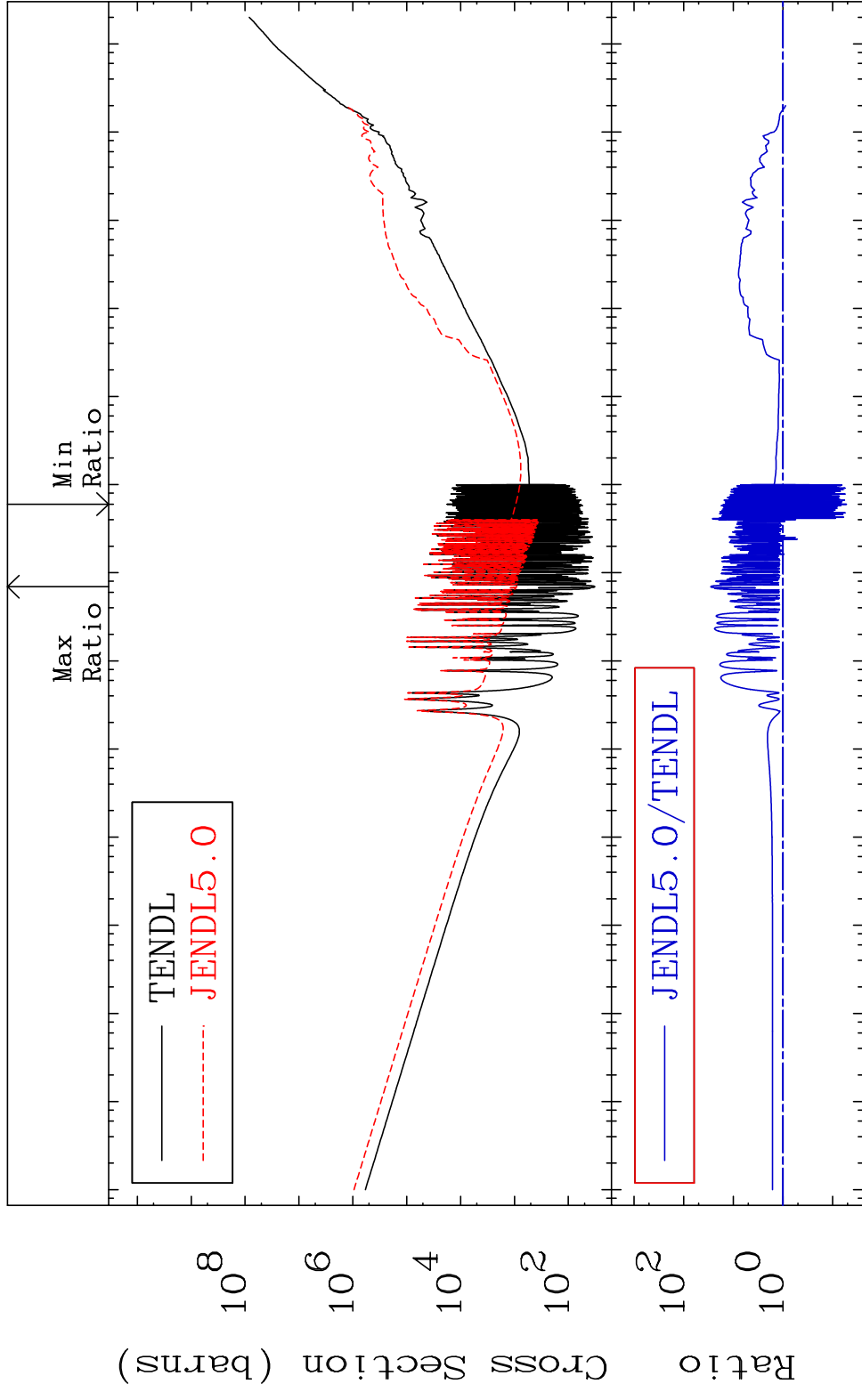


53

Incident Energy (eV)

66-Dy-161

MAT 6640 Kerma total (eV-barns) 66-Dy-161  
 Cross Section -94.69 To 2751. %

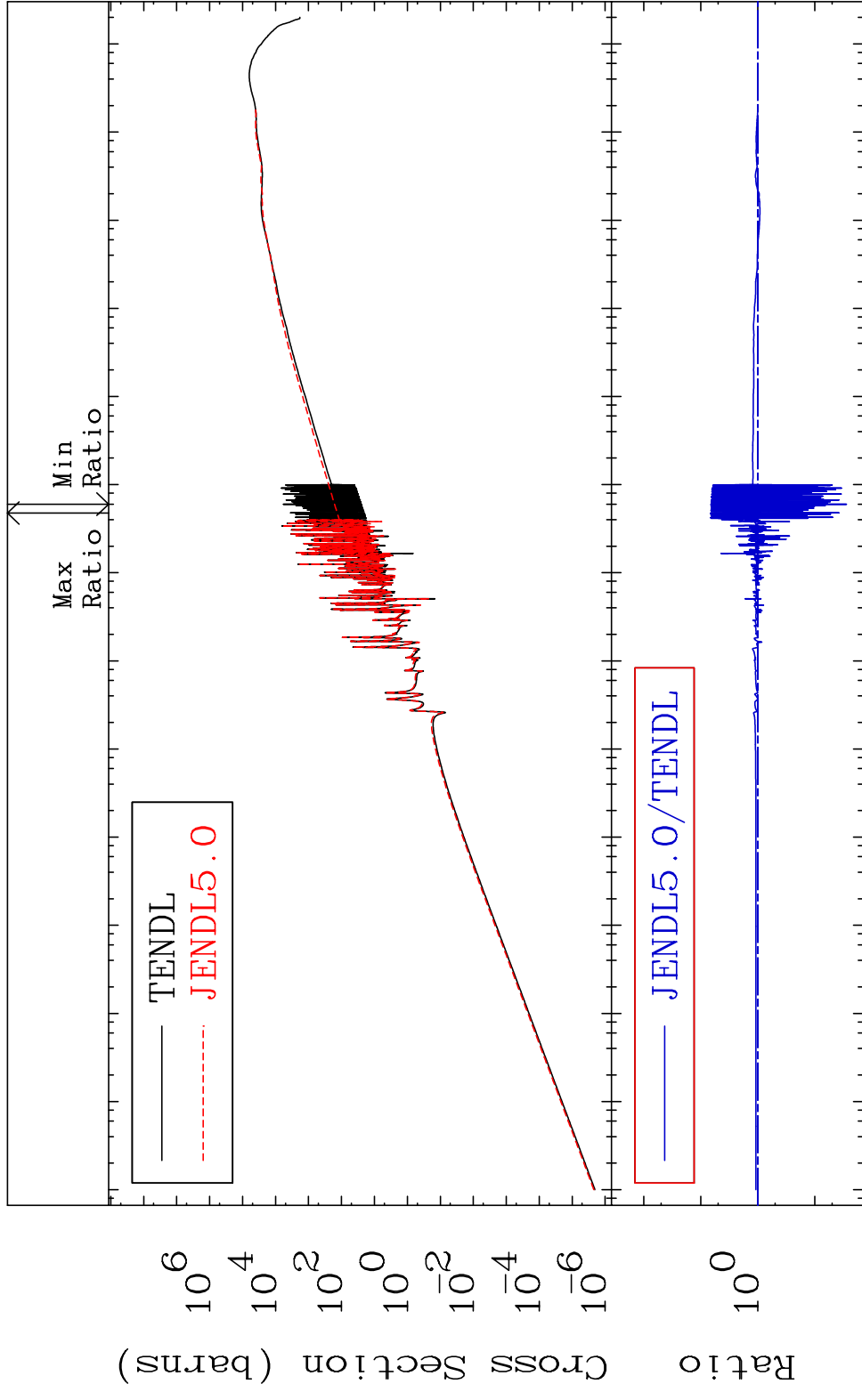


54 Incident Energy (eV) 66-Dy-161

MAT 6640

Kerma elastic  
Cross Section -97.19 To 571.7 %

66-Dy-161



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>

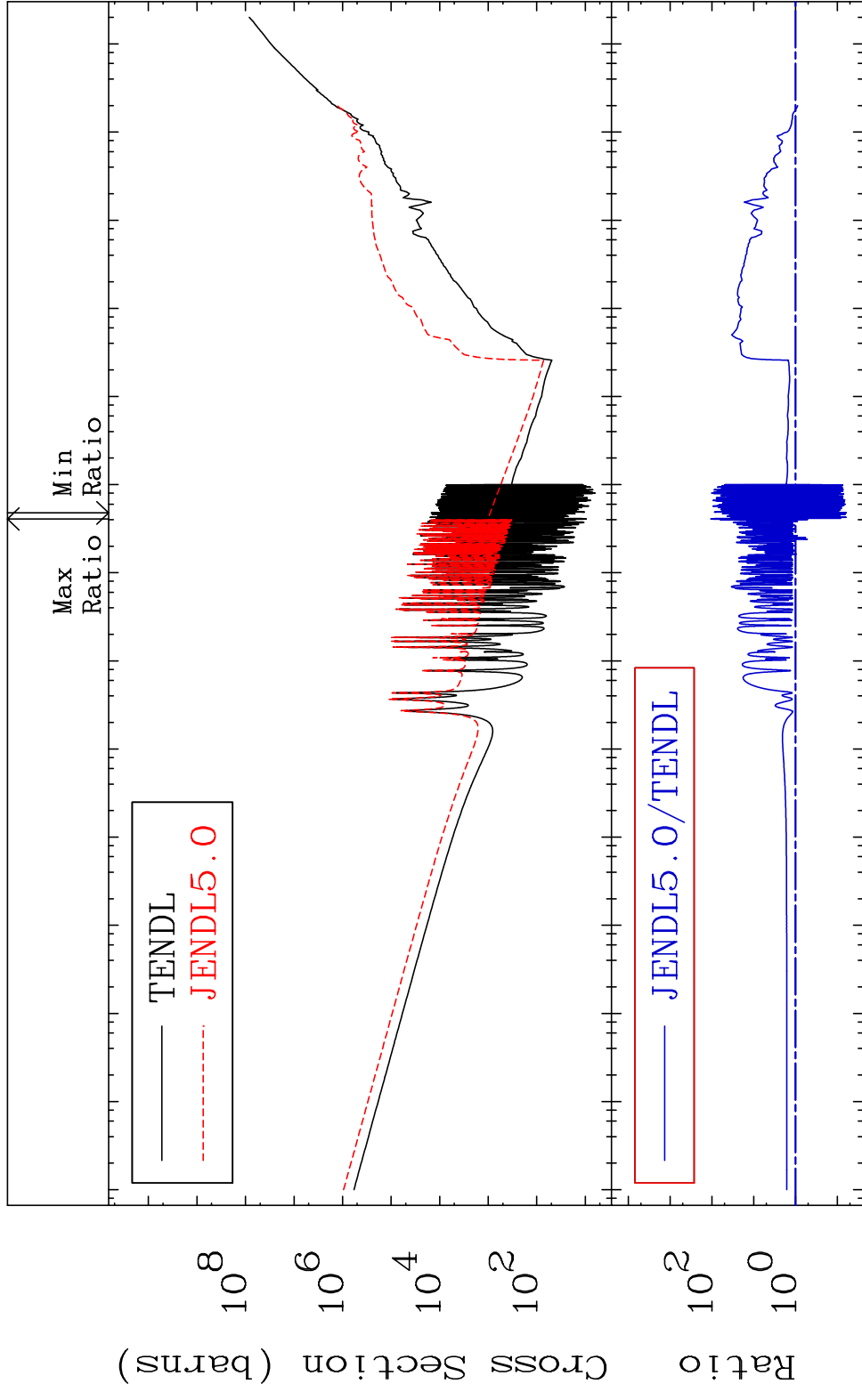
55

Incident Energy (eV)

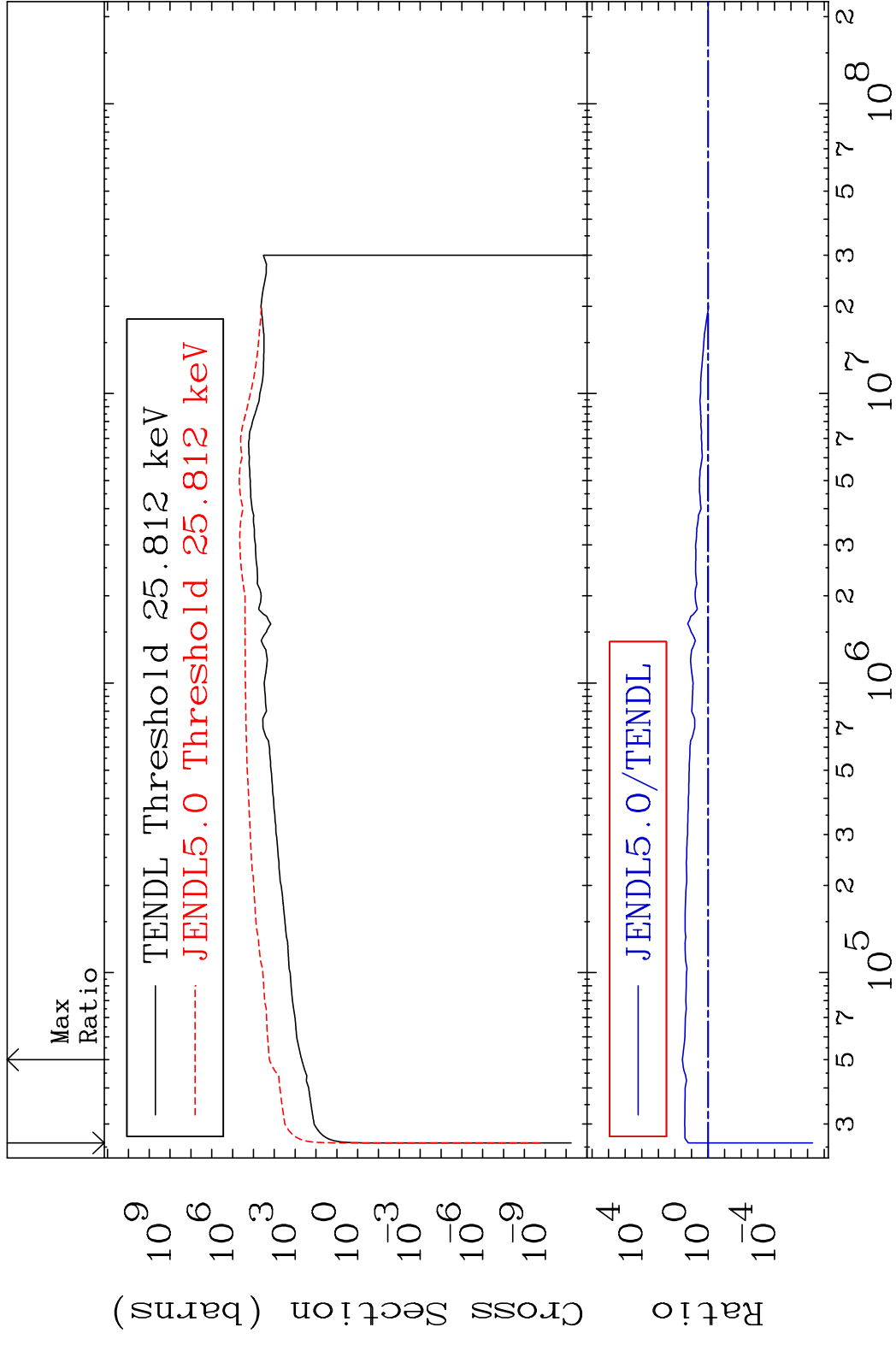
66-Dy-161



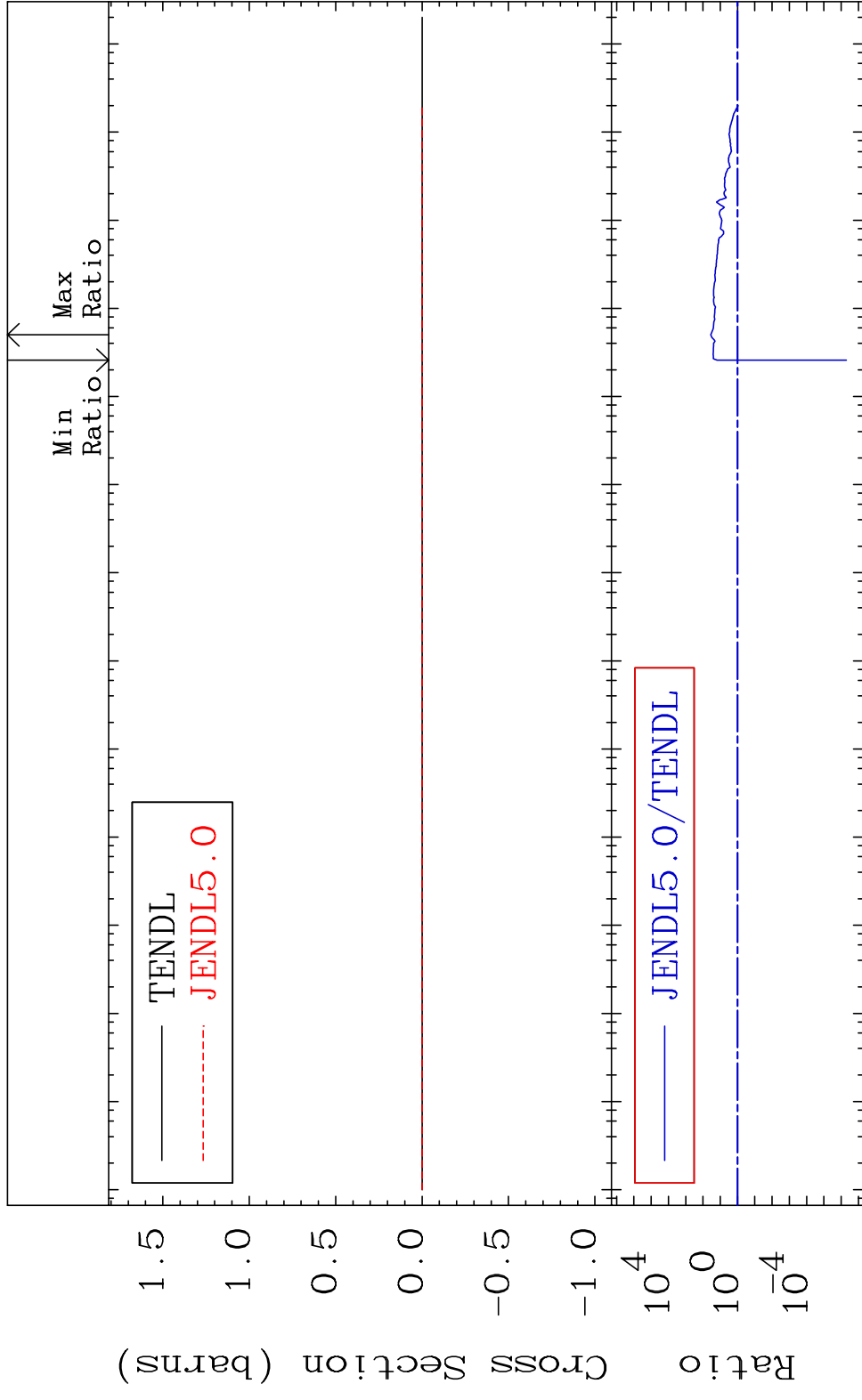
MAT 6640 Kerma non-elastic (all but mt2) 66-Dy-161  
 Cross Section -93.90 To 9999. %



MAT 6640 Kerma inelastic (mt51-91) 66-Dy-161  
 Cross Section -100.0 To 3466. %

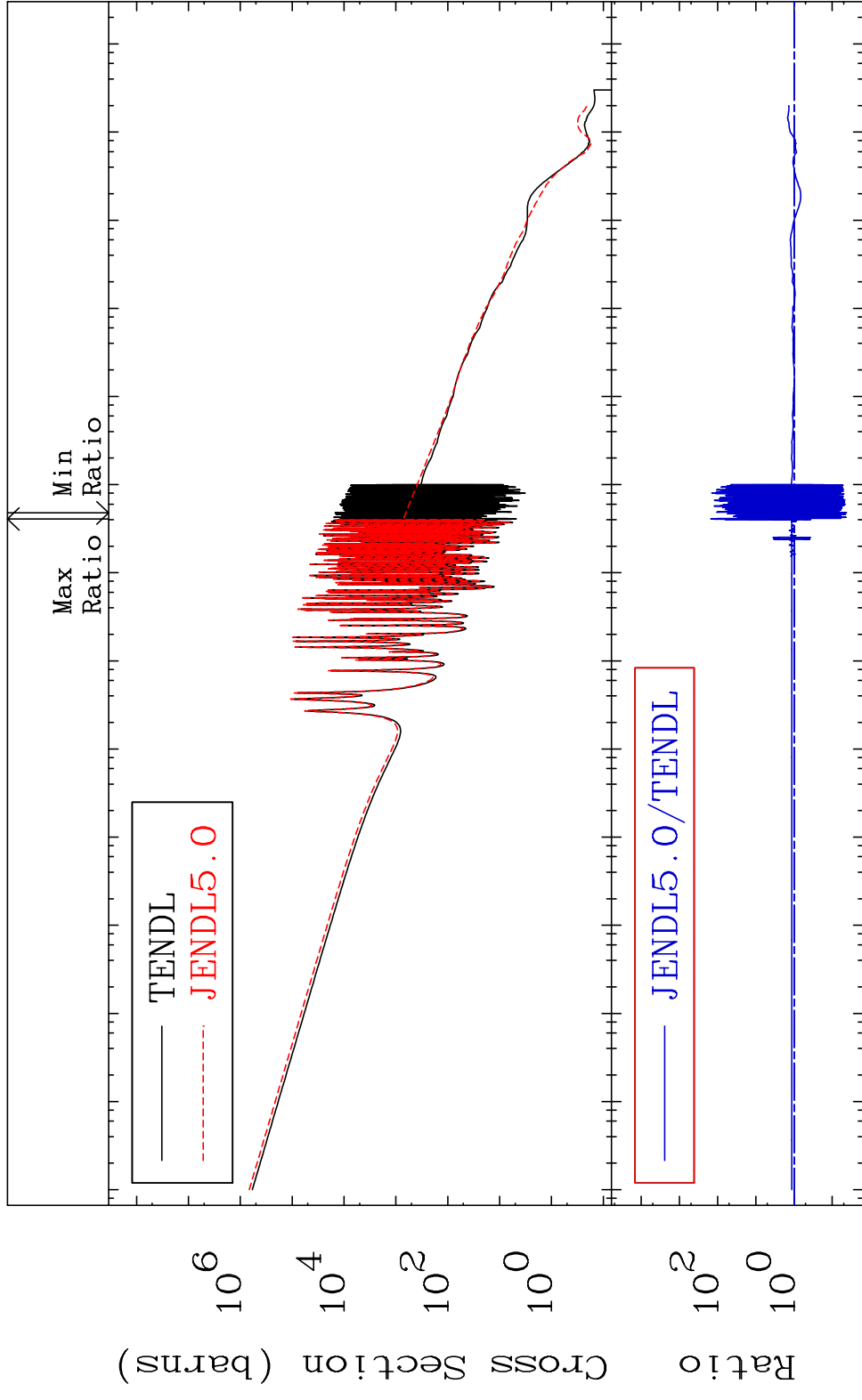


MAT 6640 Kerma fission (mt18 or mt19-20-21-38) 66-Dy-161  
 Cross Section -100.0 To 3466. %



MAT 6640

Kerma capture (mt102) 66-Dy-161  
Cross Section -95.72 To 9999. %



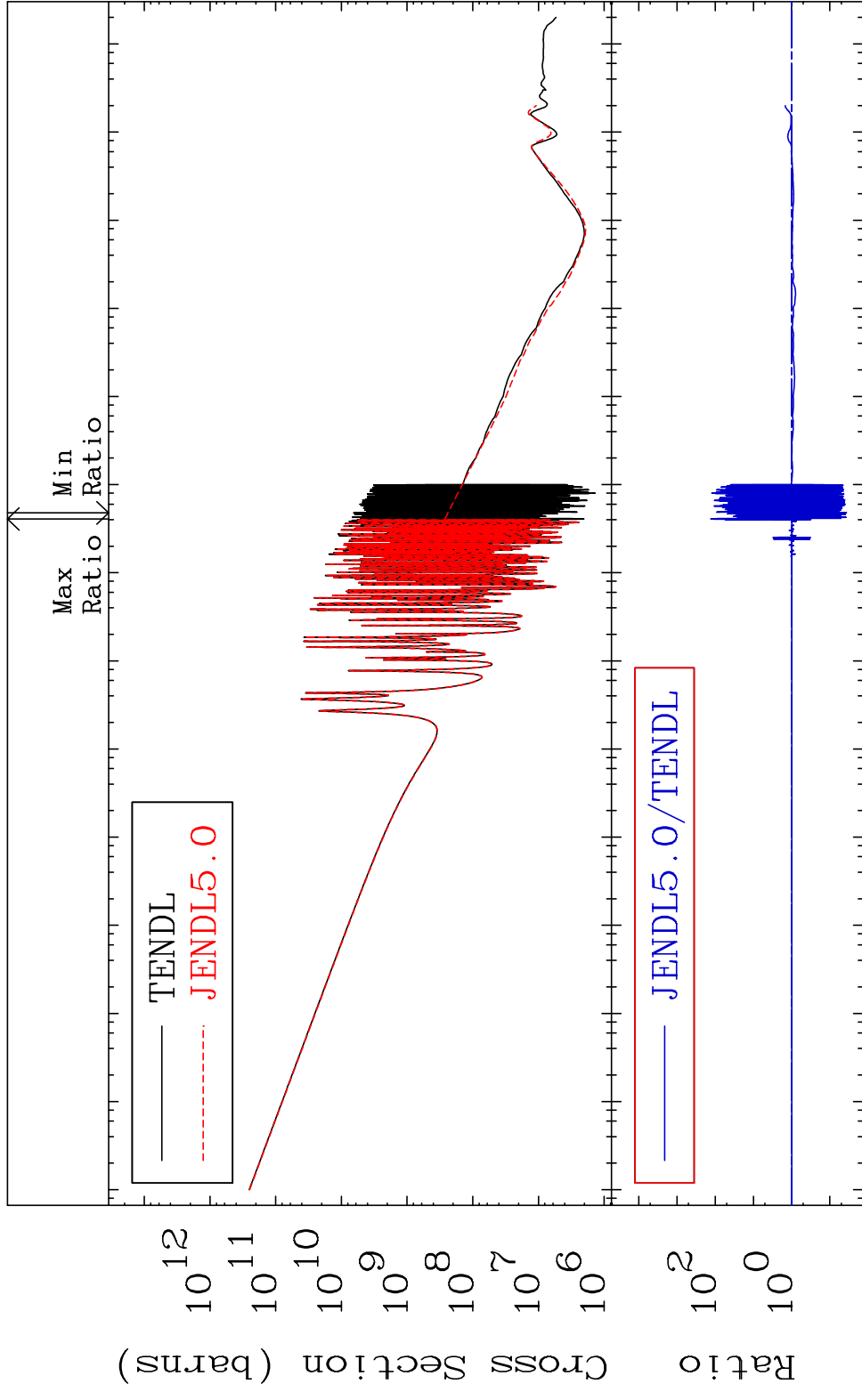
59

Incident Energy (eV)

66-Dy-161

MAT 6640

Total photon (eV-barns) 66-Dy-161  
Cross Section -96.31 To 9999. %

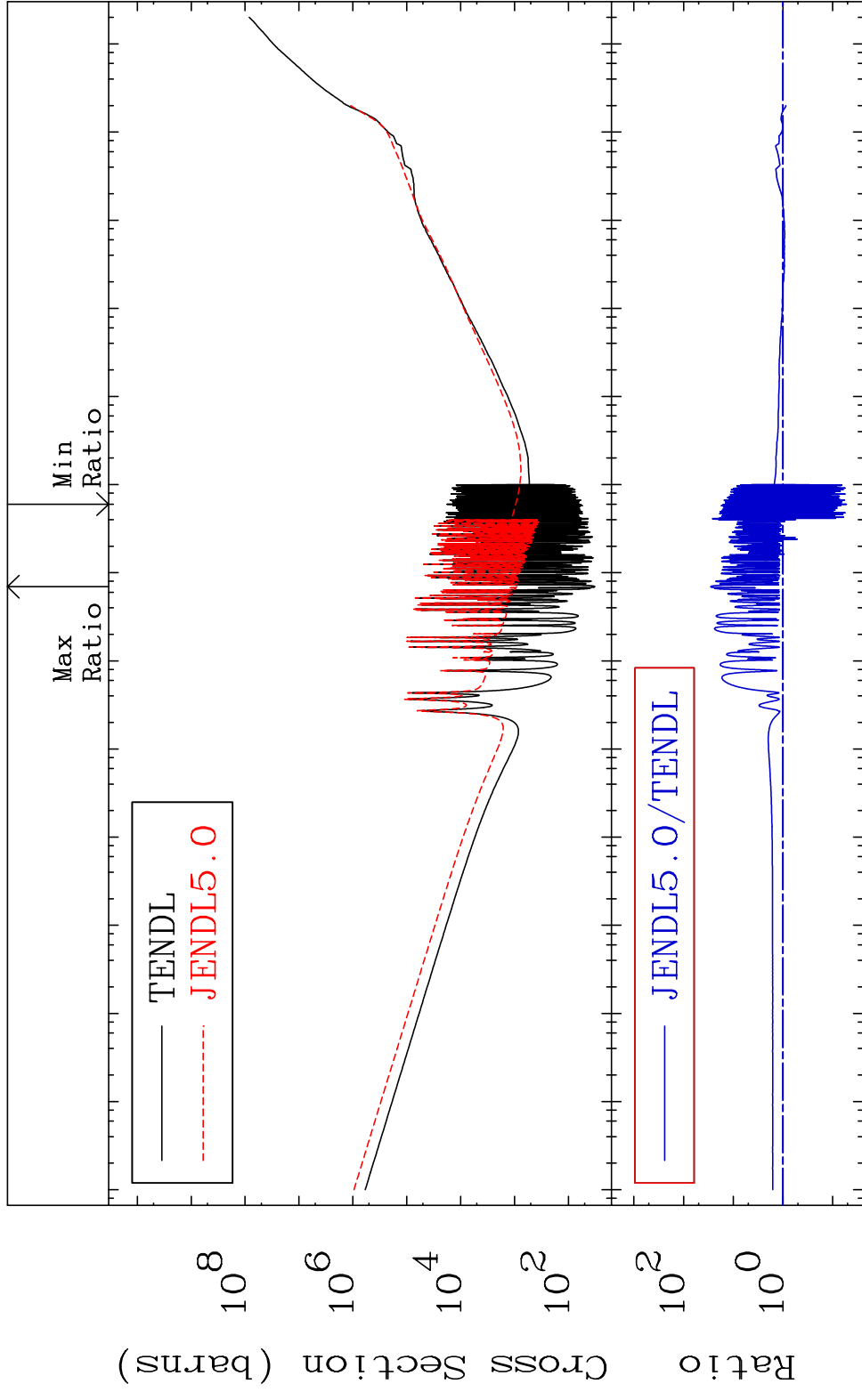


60

Incident Energy (eV)

66-Dy-161

MAT 6640 Total kinematic kerma (high limit) 66-Dy-161  
 Cross Section -94.69 To 2745. %

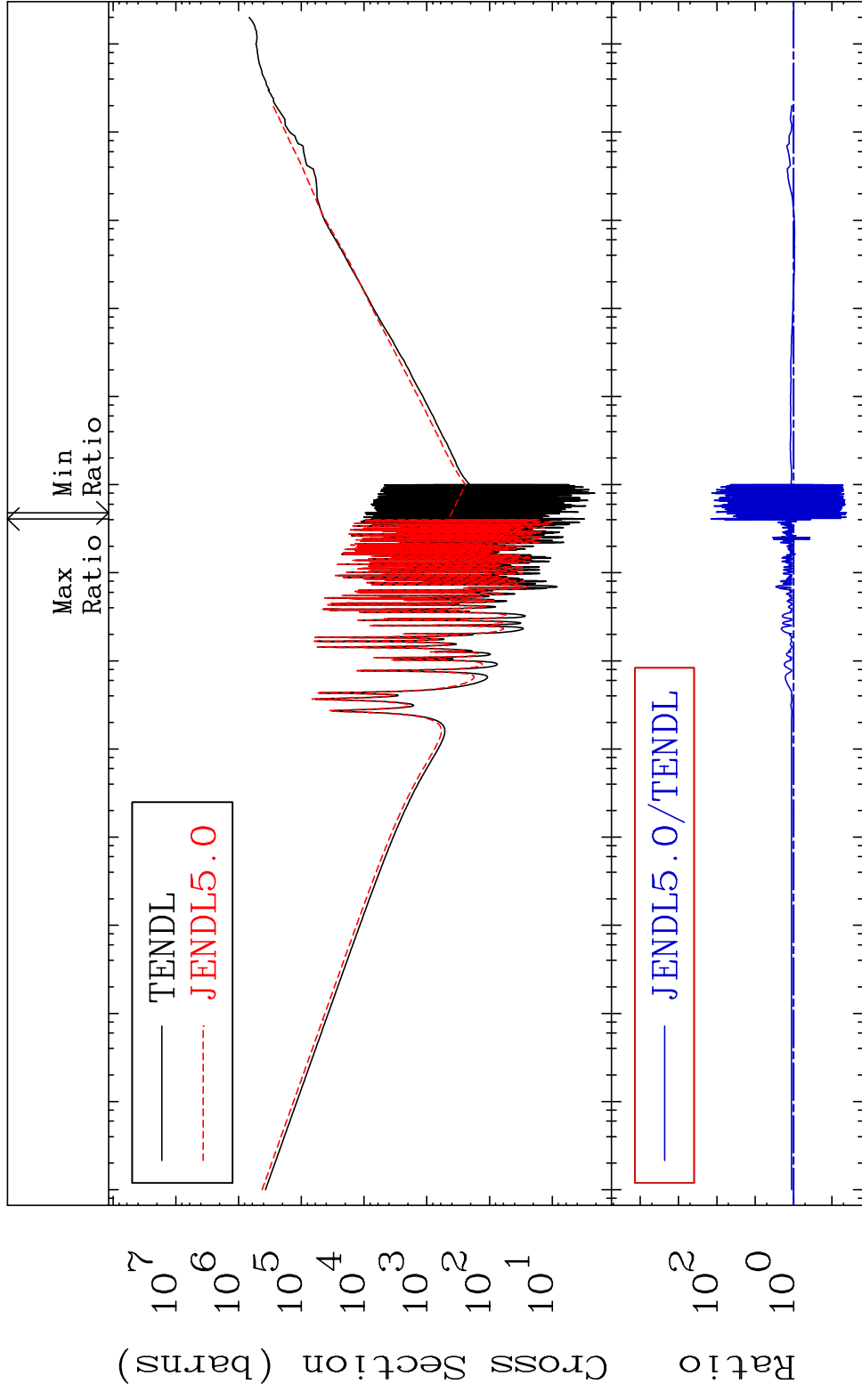


MAT 6640

Dpa total (eV-barns)

66-Dy-161

Cross Section -95.78 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>

62

Incident Energy (eV)

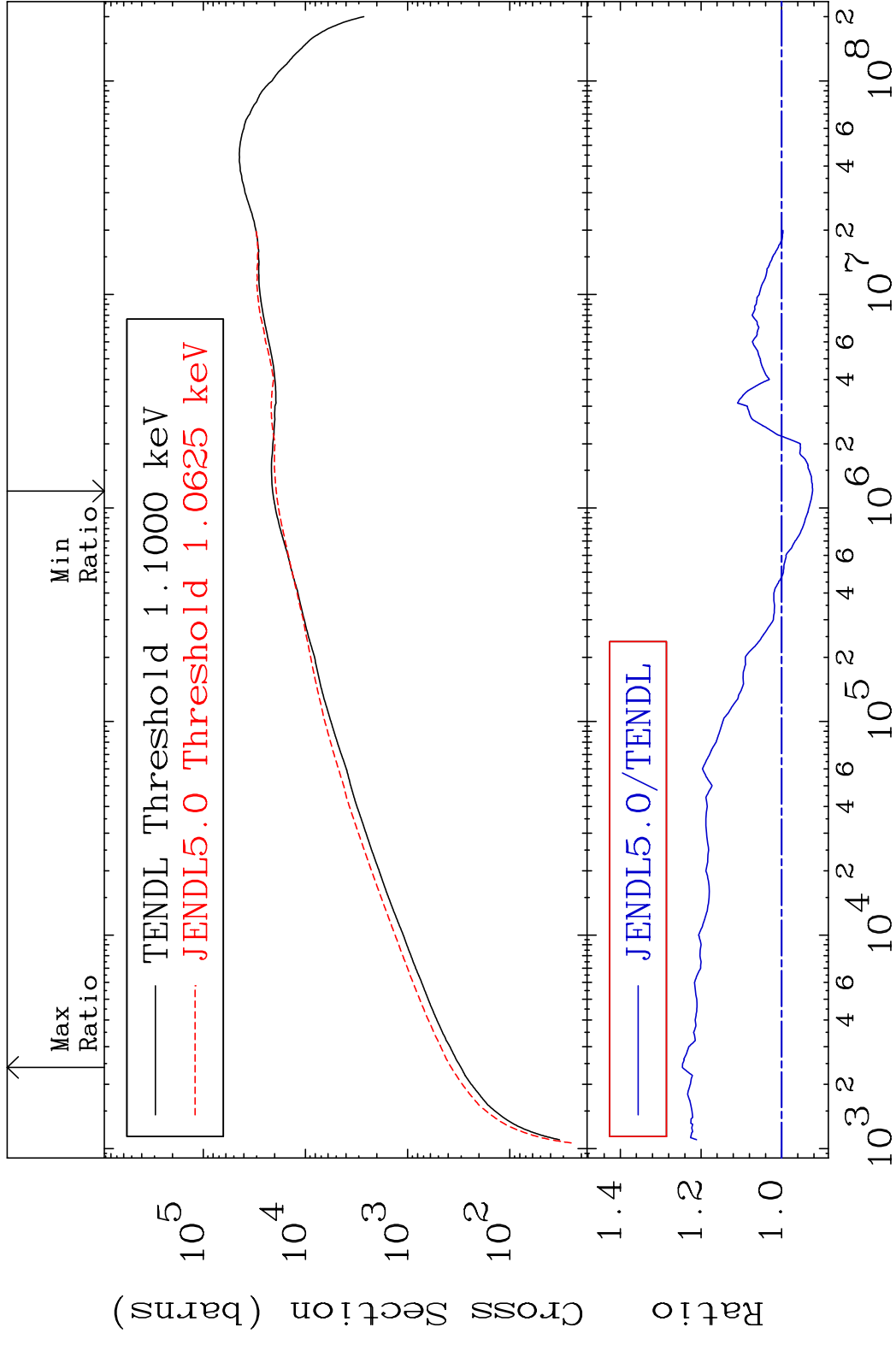
66-Dy-161

MAT 6640

Dpa elastic (mt2)

66-Dy-161

Cross Section -7.654 To 24.62 %



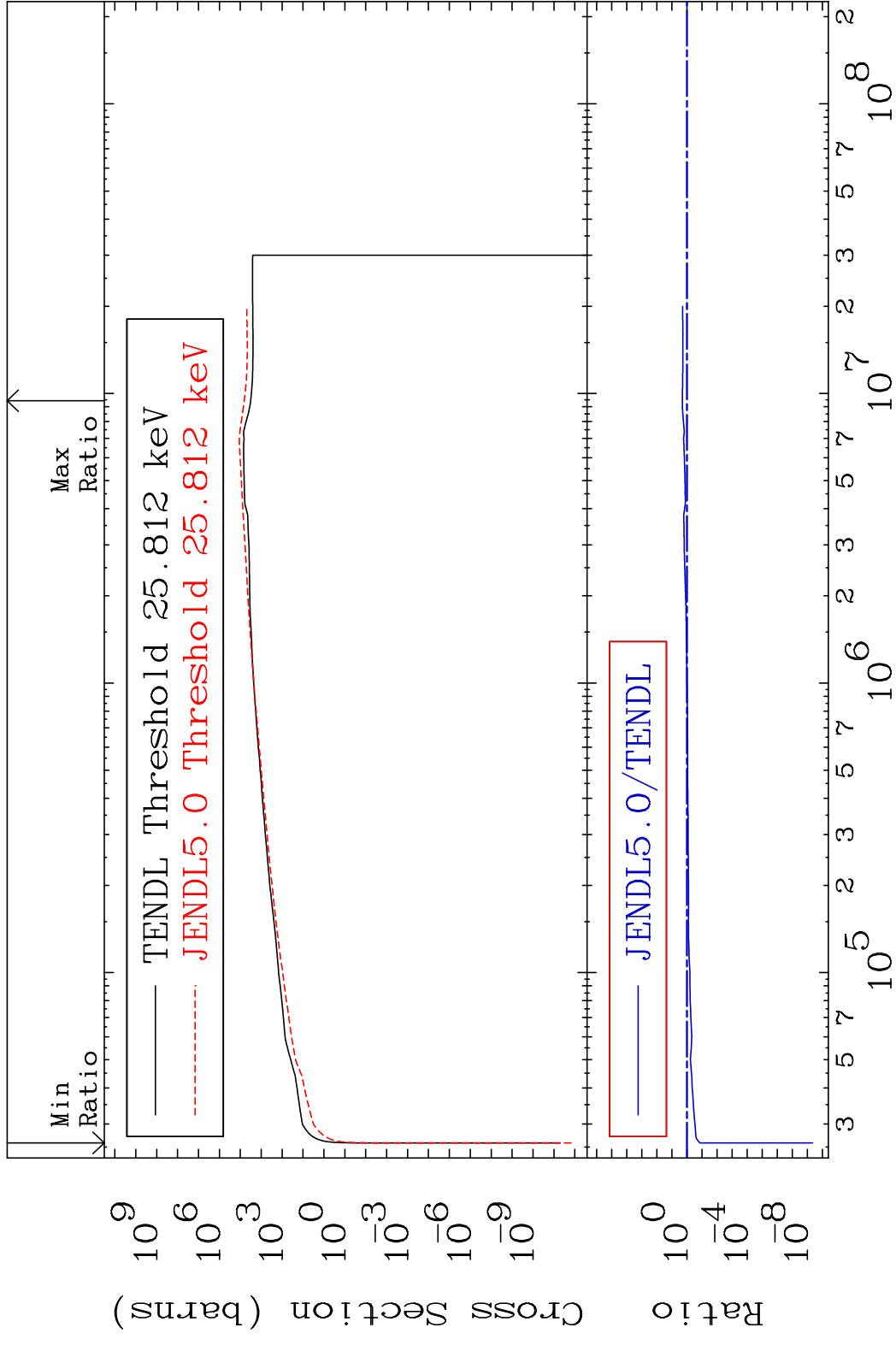
63

Incident Energy (eV)

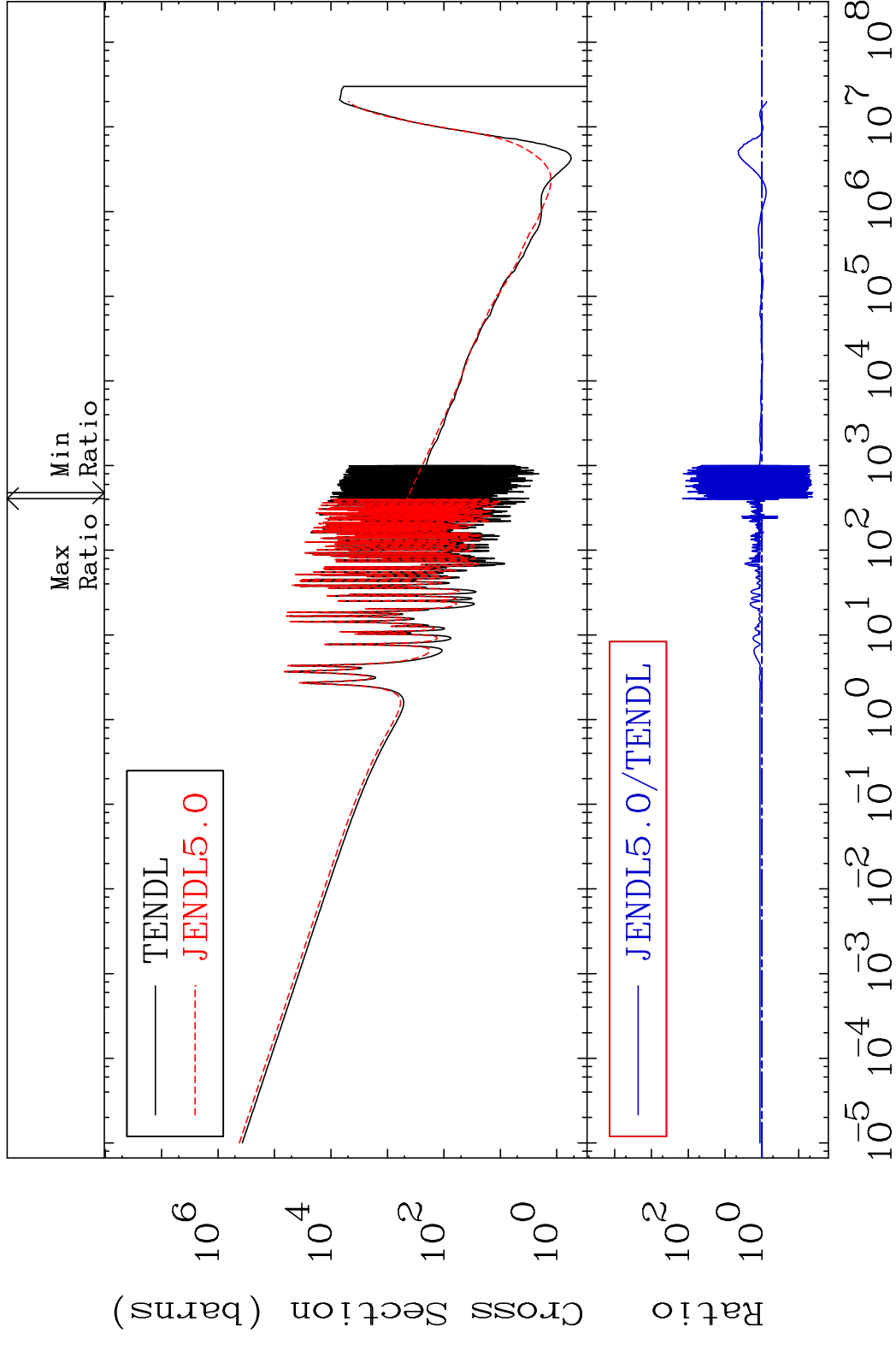
66-Dy-161



MAT 6640 Dpa inelastic (mt51-91) 66-Dy-161  
 Cross Section -100.0 To 102.0 %



MAT 6640 Dpa disappearance (mt102 -120) 66-Dy-161  
 Cross Section -95.78 To 9999. %



MAT 6640 (n, n') t:65-Tb-158g 66-Dy-161  
 Radionuclide Production Cross Section Ratio 3107. %

