

Program Complot  
(Version 2021-1)

by

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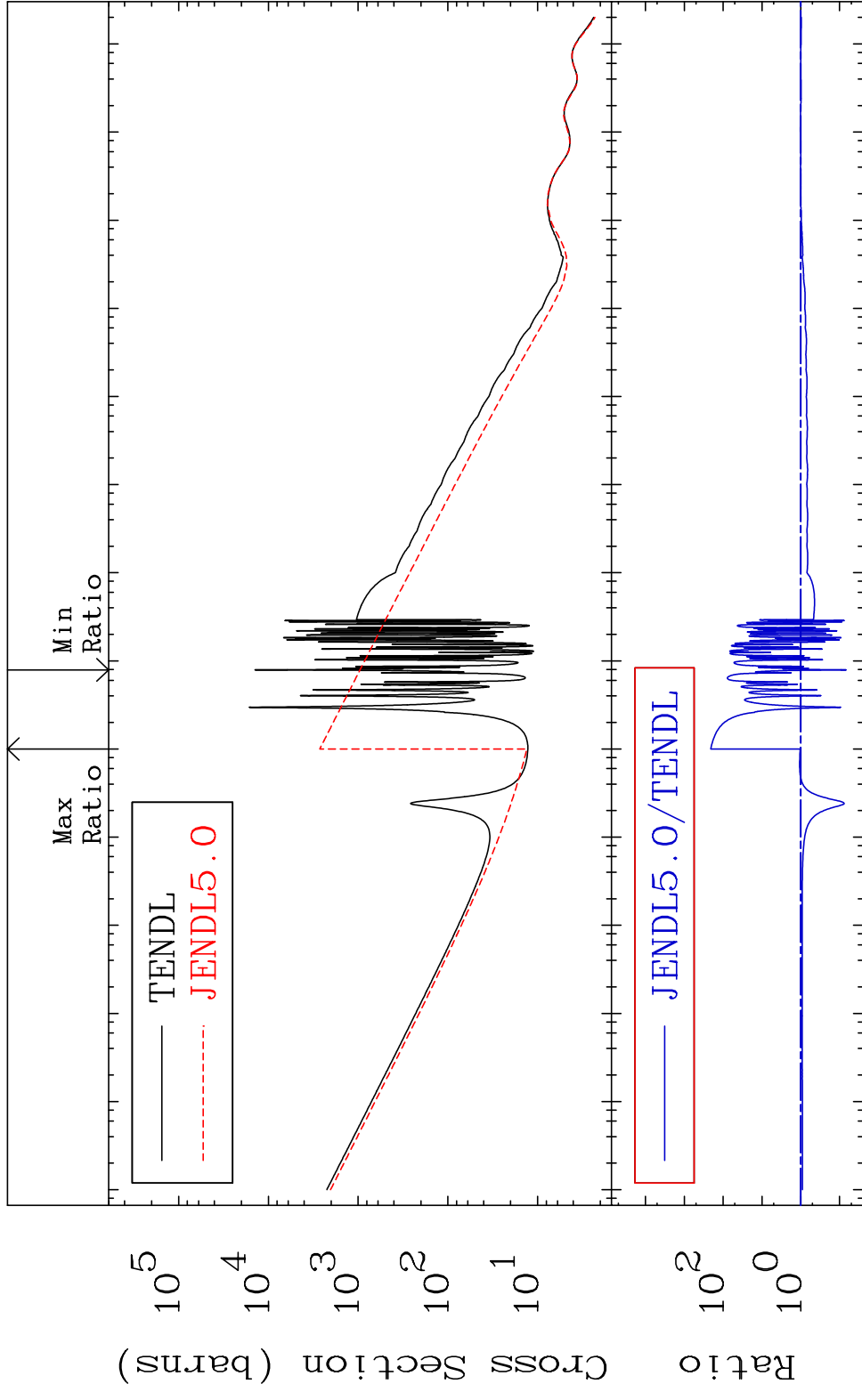
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 6422

Total Cross Section -93.29 To 9999. %

64-Gd-151



Incident Energy (eV) 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>

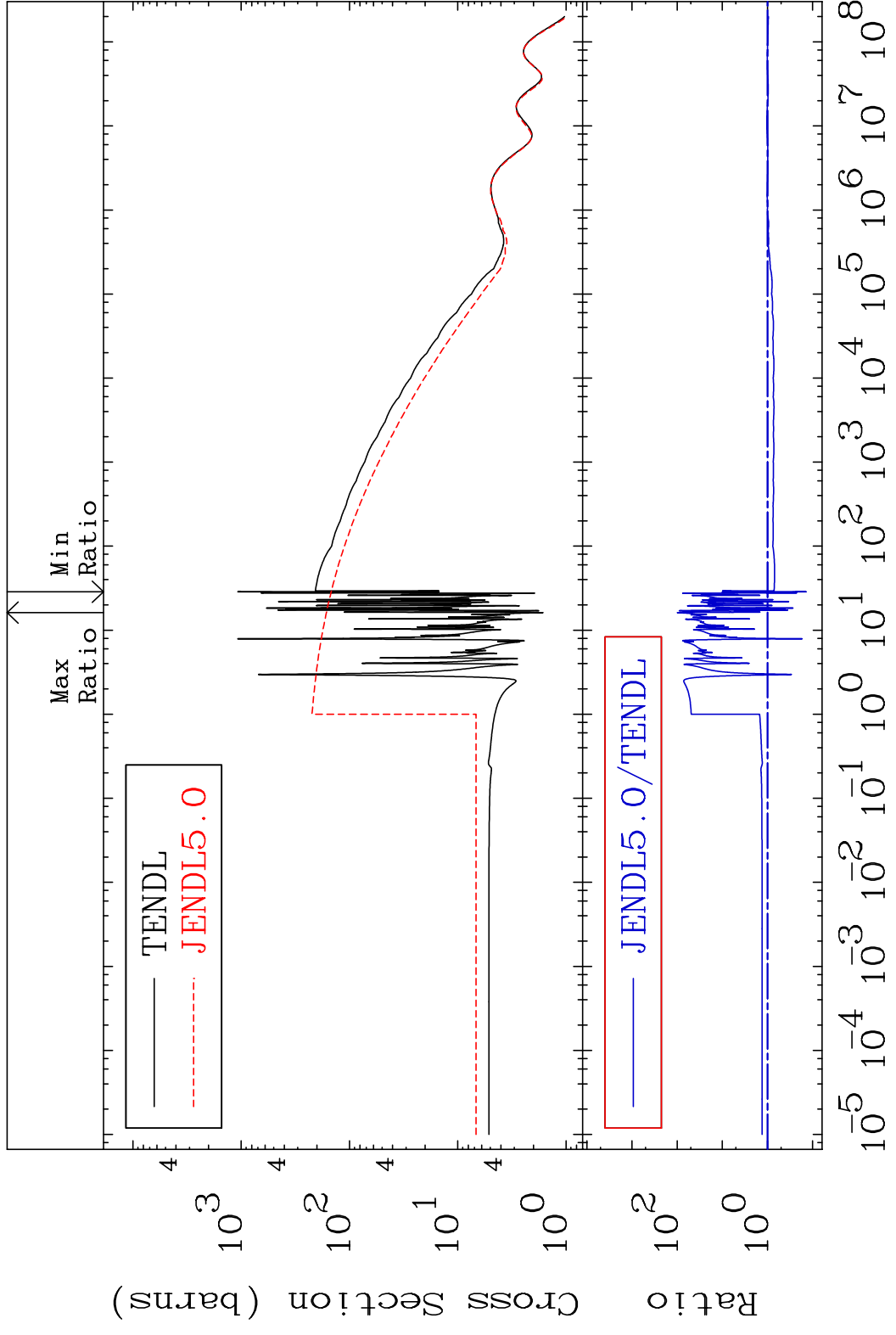
64-Gd-151

Incident Energy (eV)

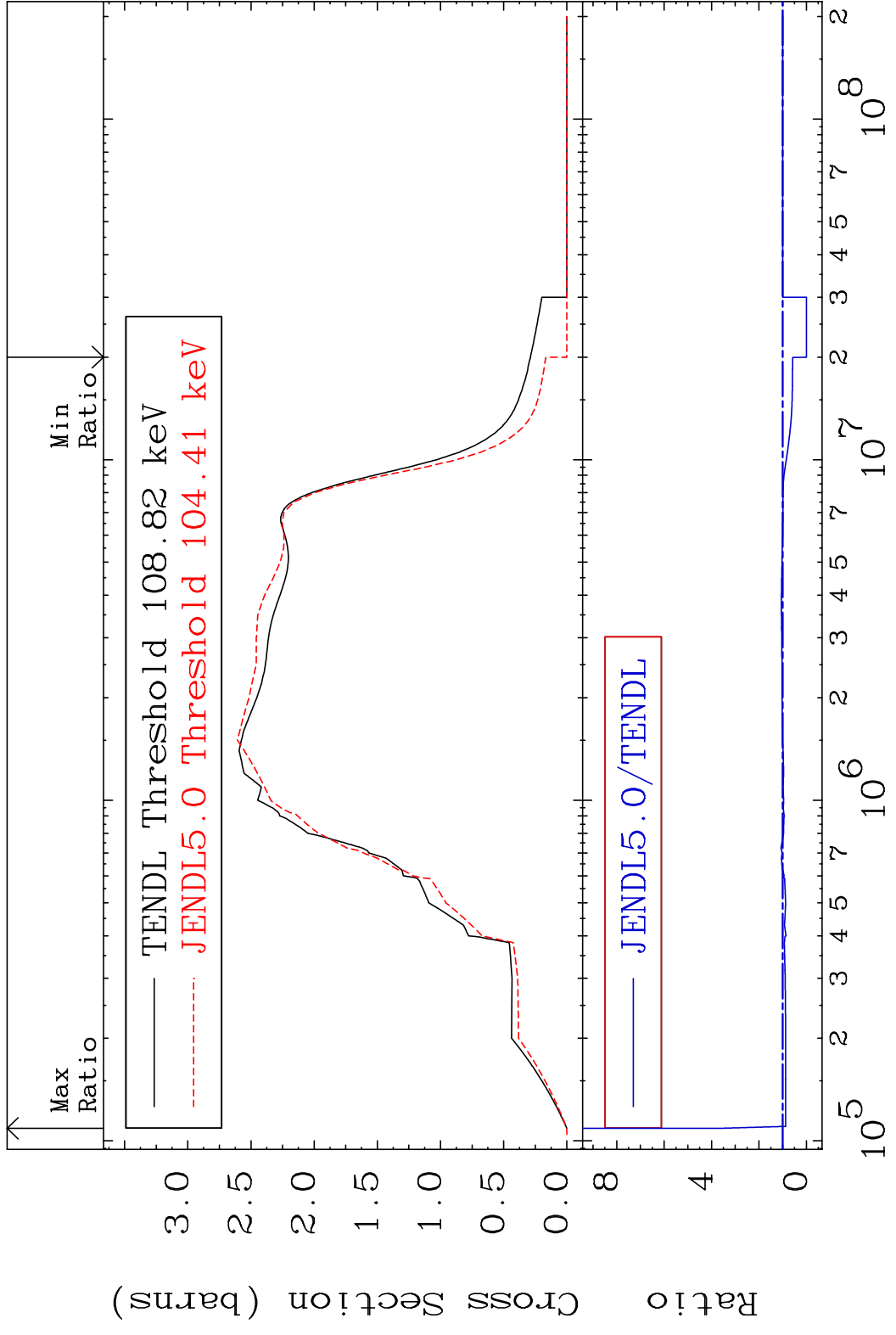
1

MAT 6422

Elastic Cross Section -86.28 To 9889. %  
64-Gd-151



MAT 6422 Inelastic 64-Gd-151  
 Cross Section -100.0 To 445.0 %



3 2 3 4 5 7 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 2 64-Gd-151

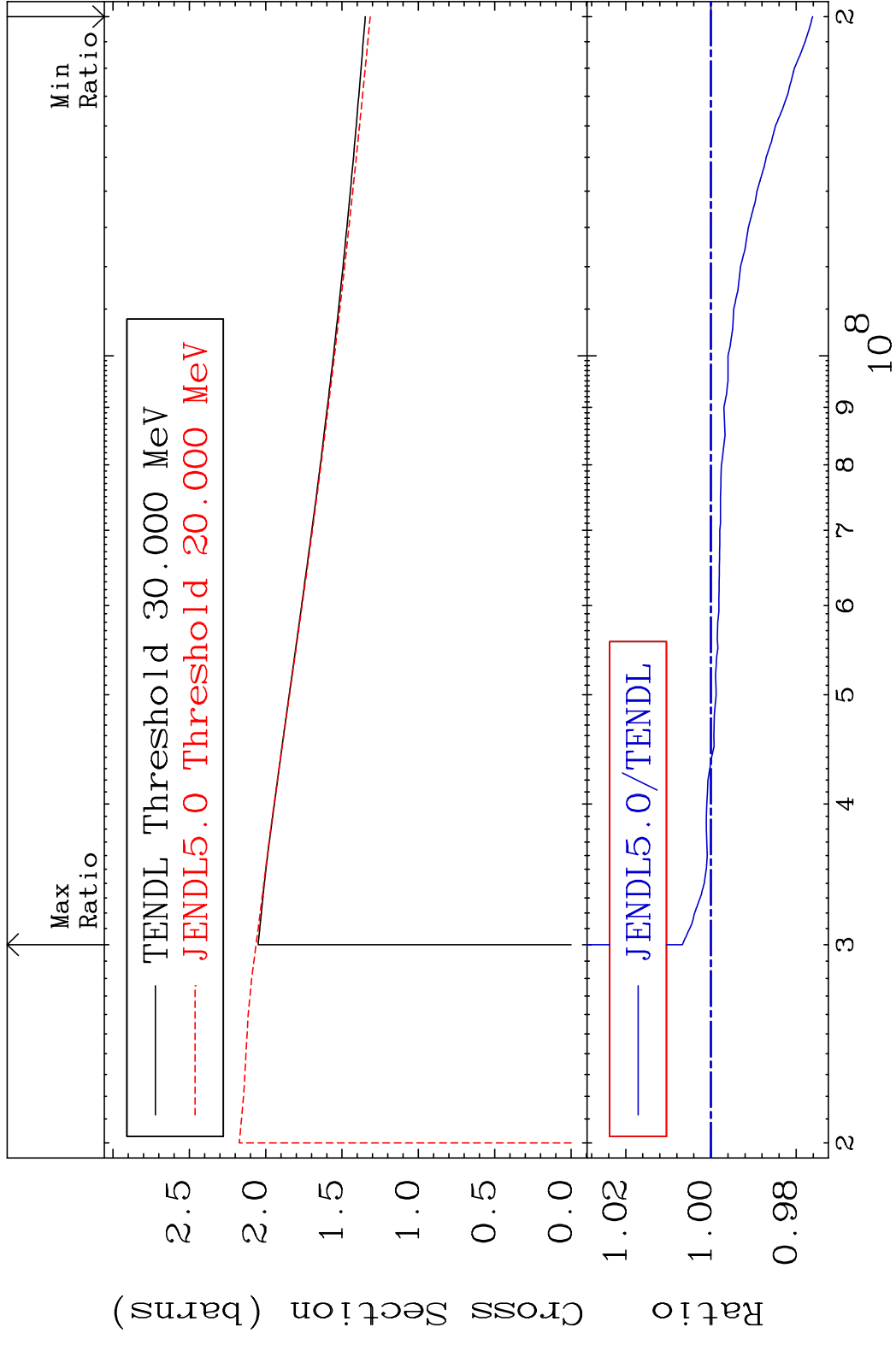
MAT 6422

(n, remainder)

64-Gd-151

Cross Section

-2.385 To 0.671 %



4

Incident Energy (eV)

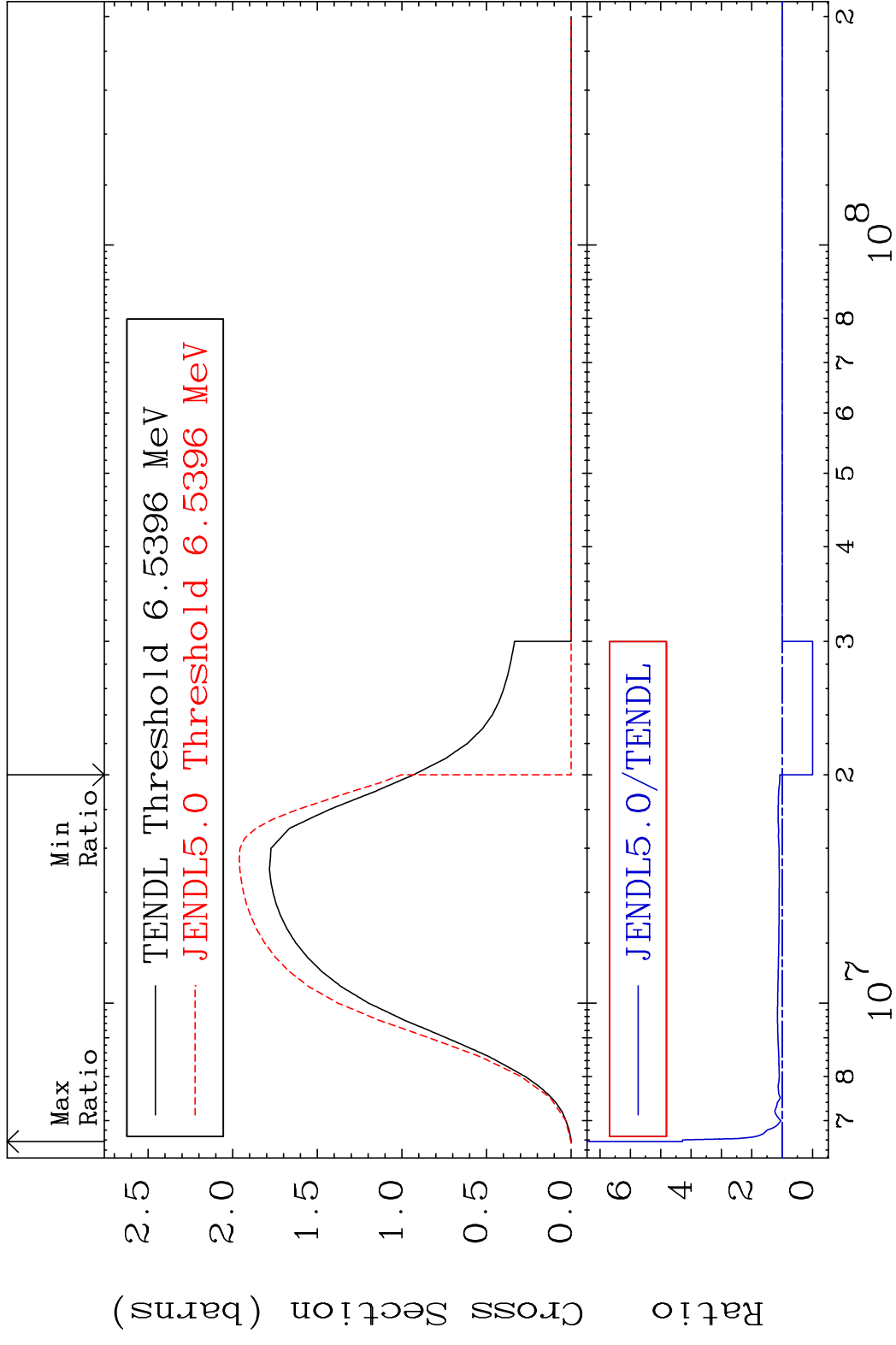
64-Gd-151

MAT 6422

(n,2n)

64-Gd-151

Cross Section -100.0 To 328.7 %



5

Incident Energy (eV)

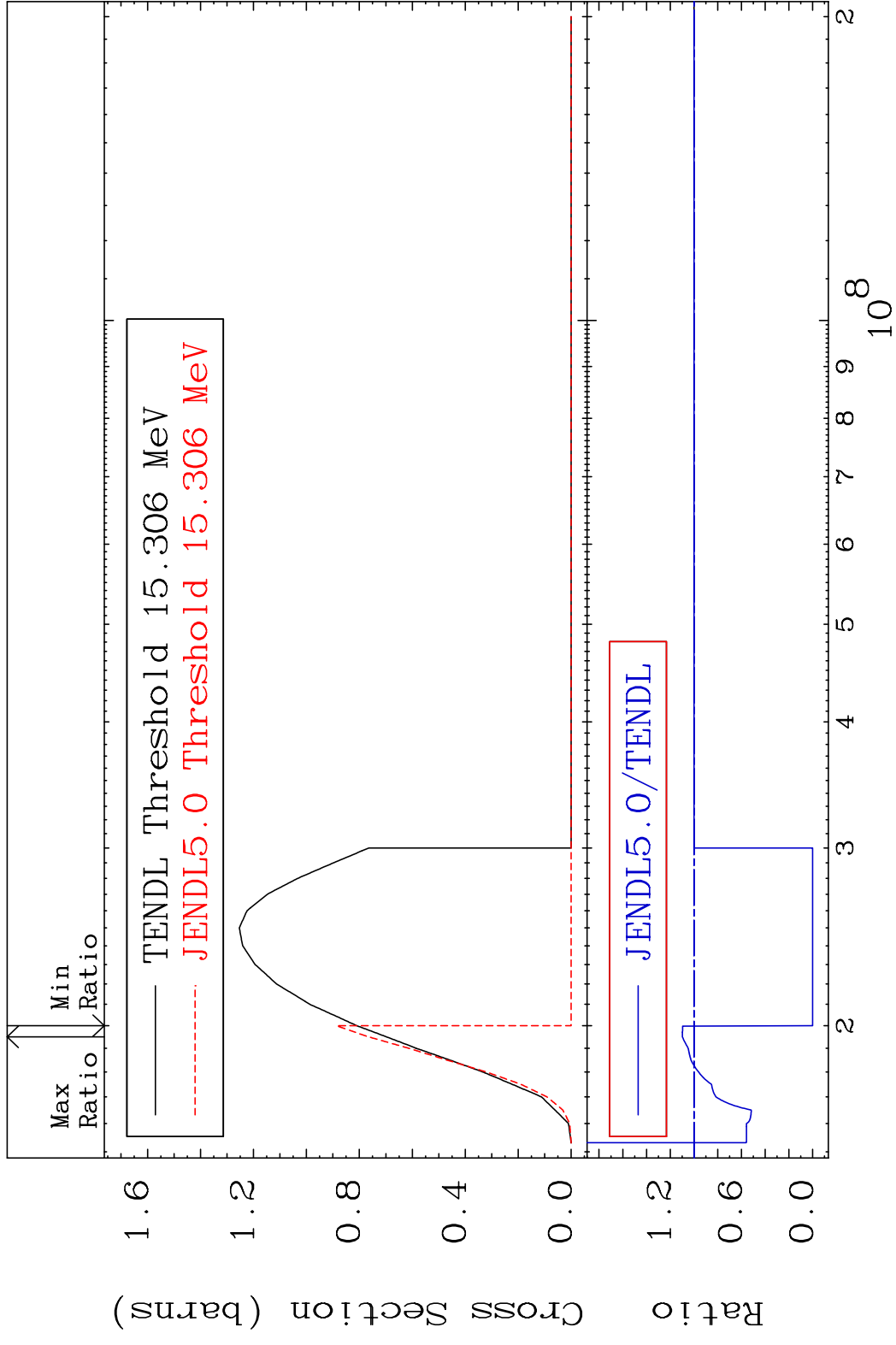
64-Gd-151

MAT 6422

(n,3n)

64-Gd-151

Cross Section -100.0 To 9.760 %

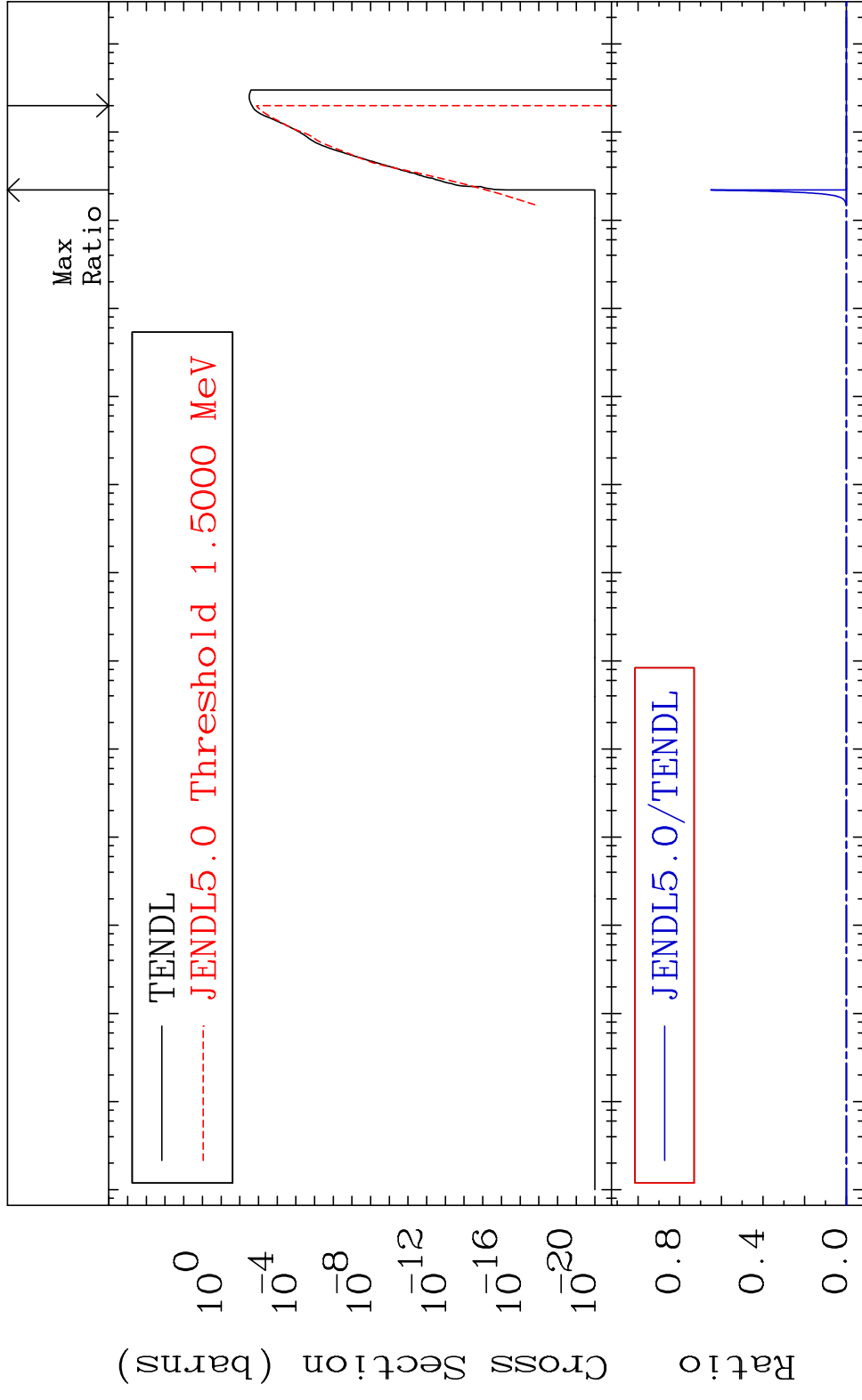


MAT 6422

(n, n')  $\alpha$

64-Gd-151

Cross Section -100.0 To 9999. %

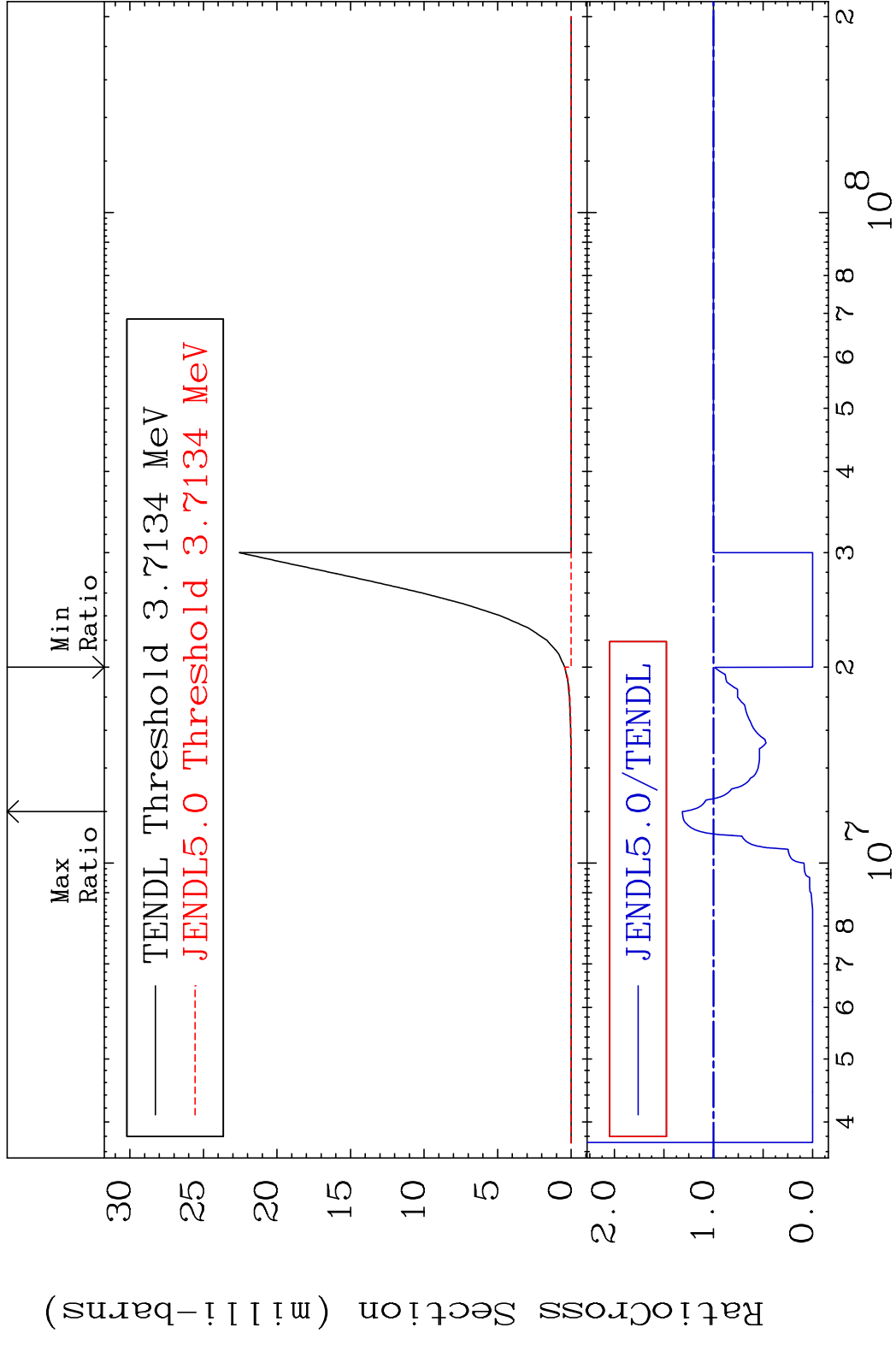


7

Incident Energy (eV)

64-Gd-151

MAT 6422 (n,2n)  $\alpha$  64-Gd-151  
 Cross Section -100.0 To 31.45 %

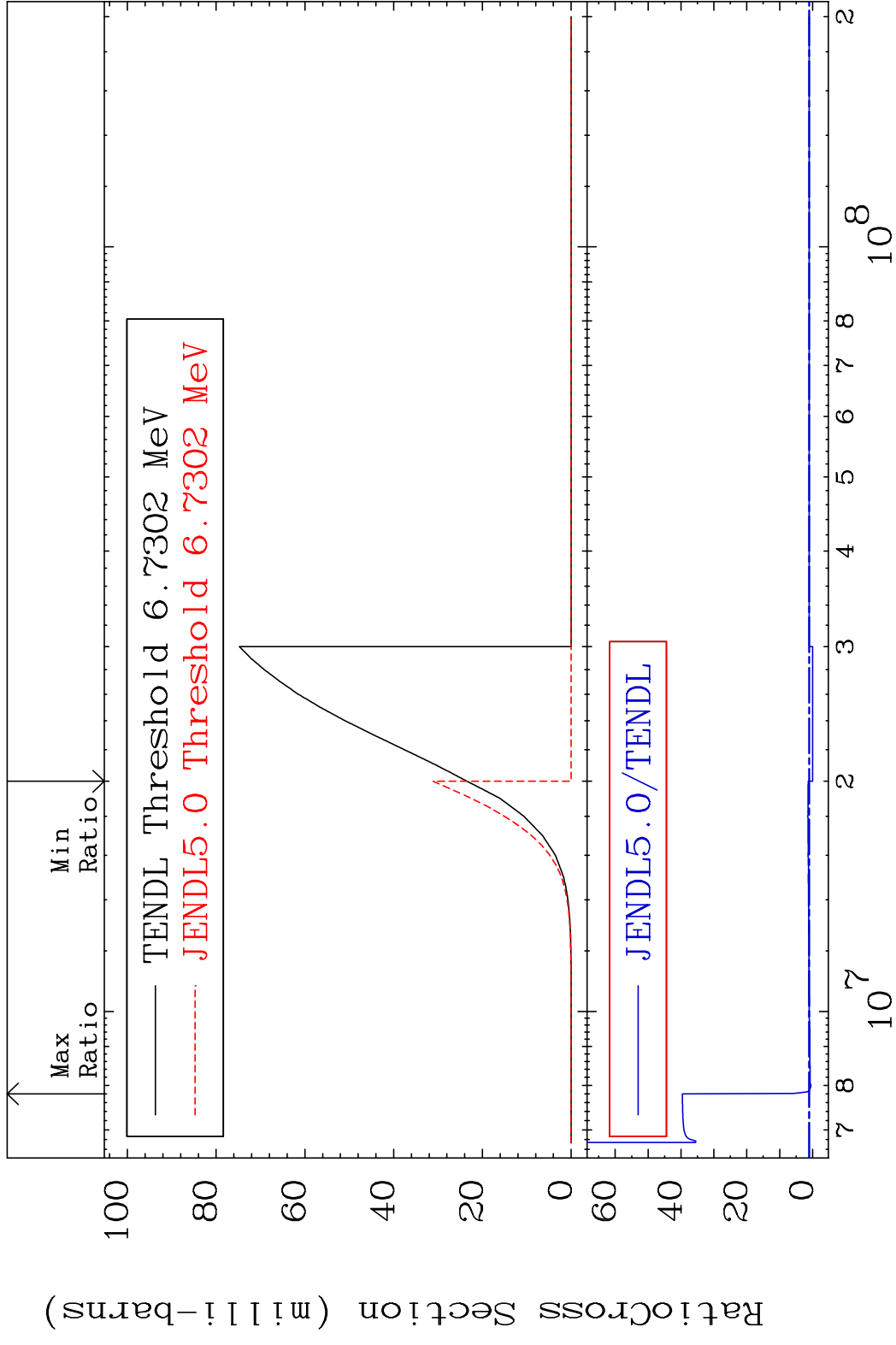


MAT 6422

(n, n') p

64-Gd-151

Cross Section -100.0 To 3859. %

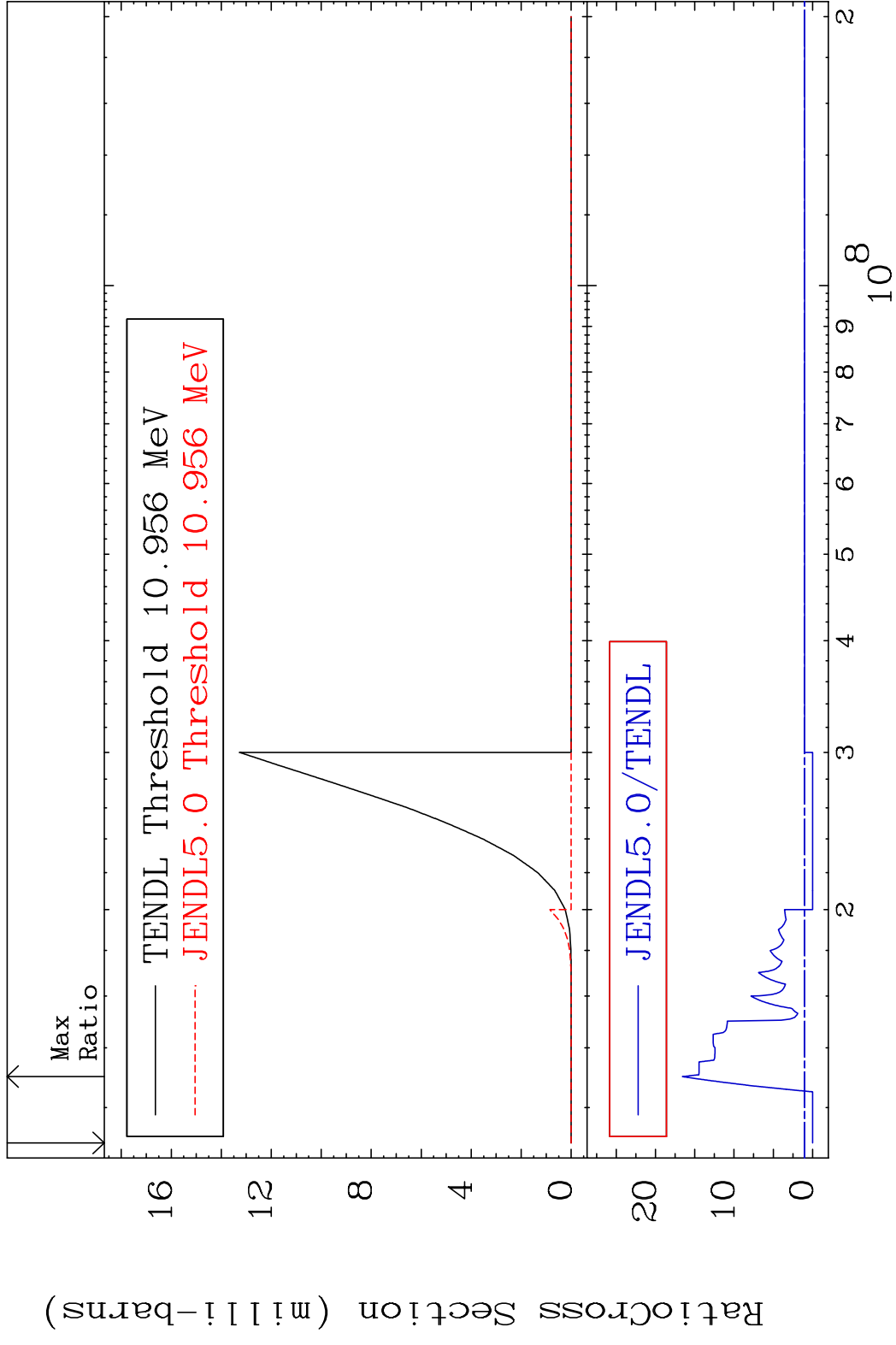


MAT 6422

(n, n') d

64-Gd-151

Cross Section -100.0 To 1558. %

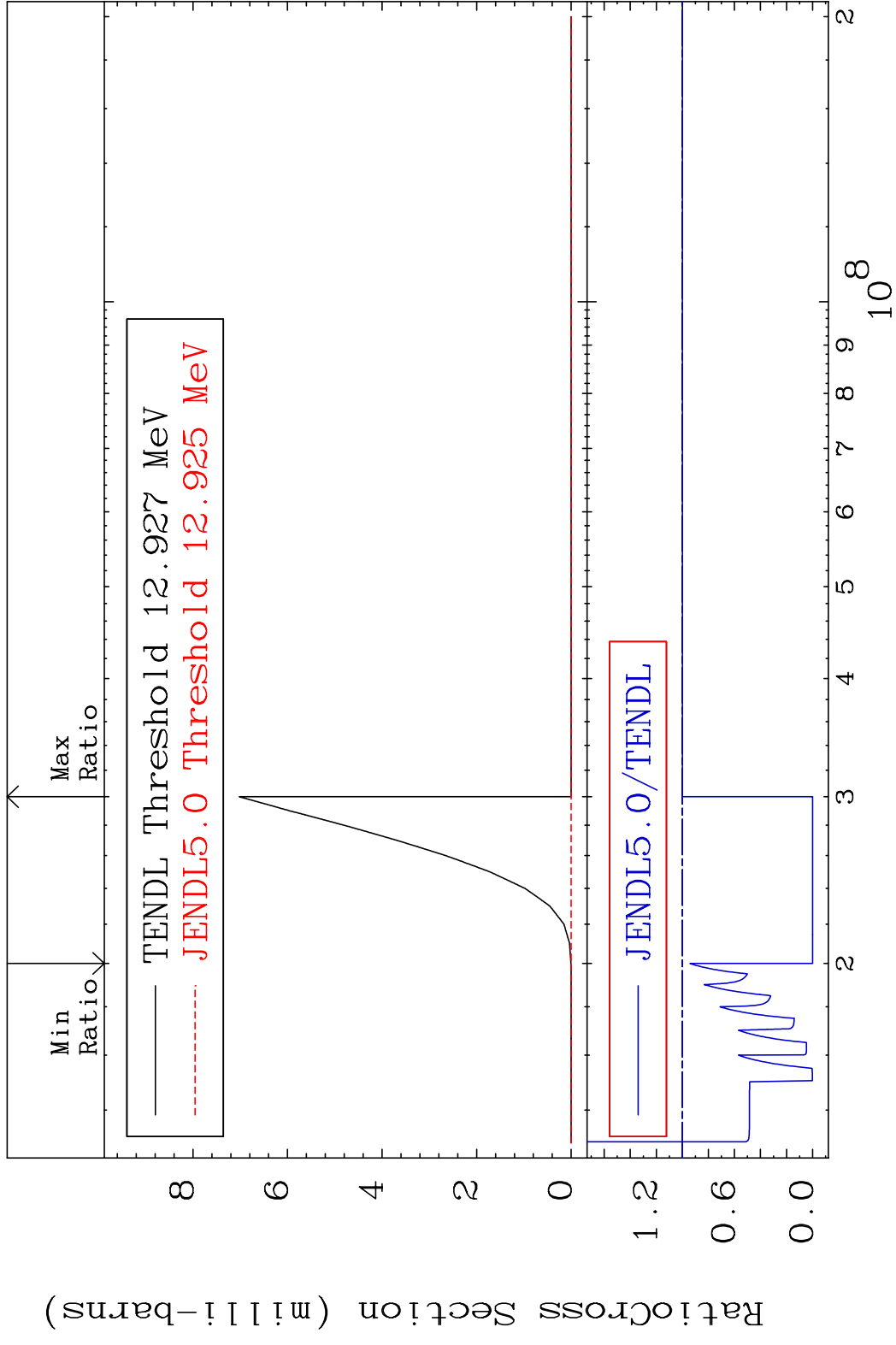


10

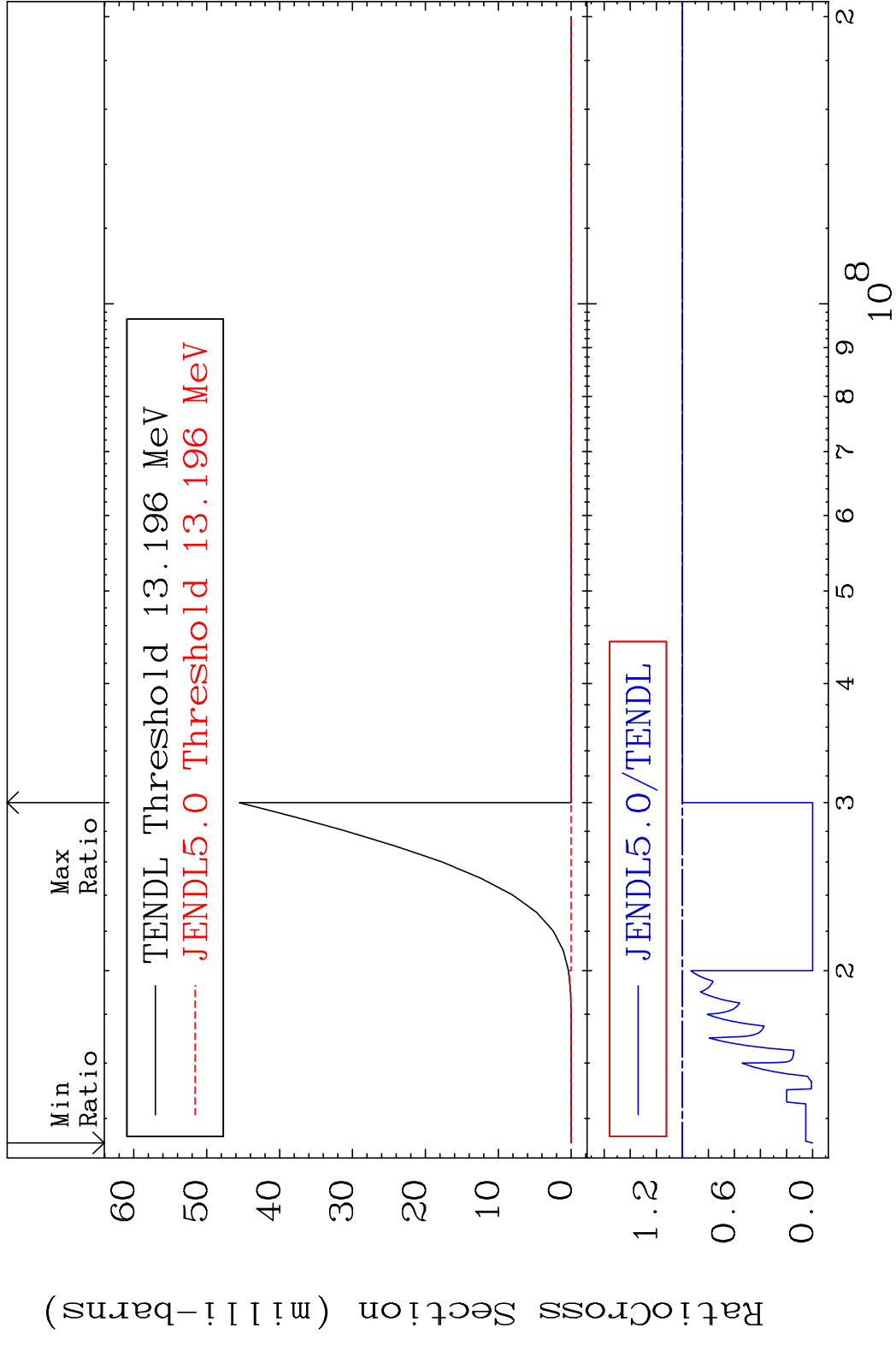
Incident Energy (eV)

64-Gd-151

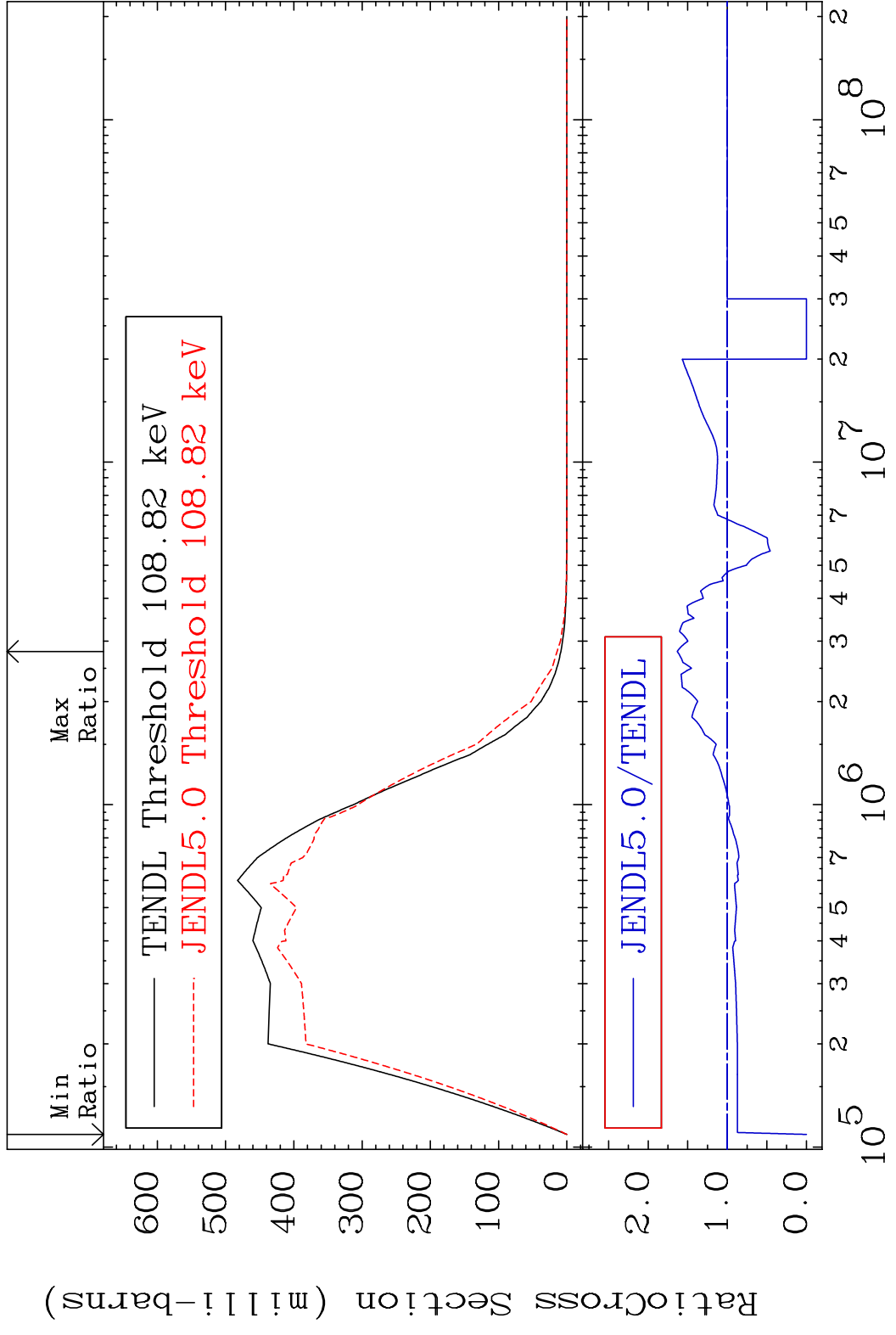
MAT 6422 (n, n') t 64-Gd-151  
 Cross Section -100.0 To 0.000 %



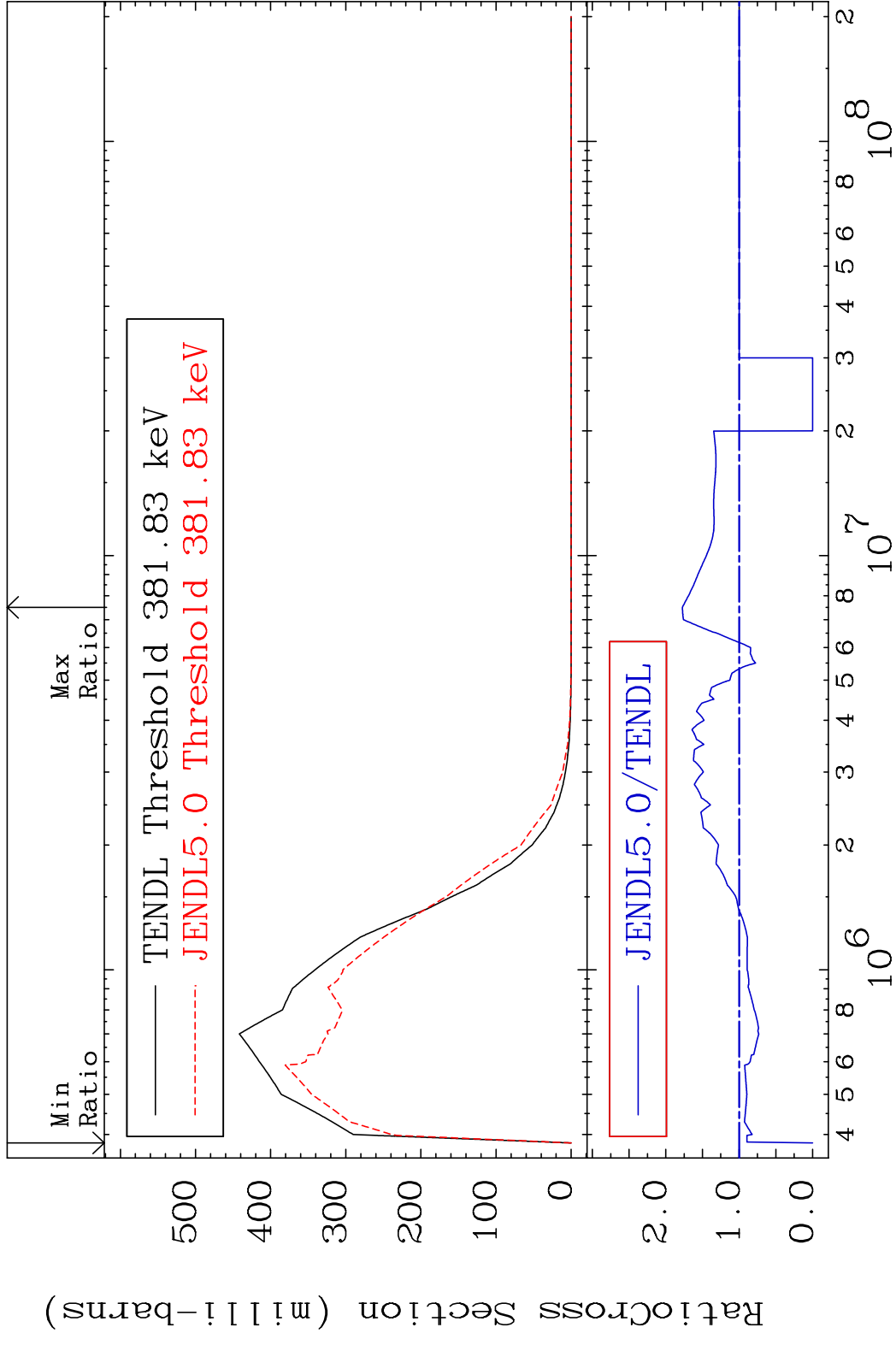
MAT 6422 (n,2n) p 64-Gd-151  
 Cross Section -100.0 To 0.000 %



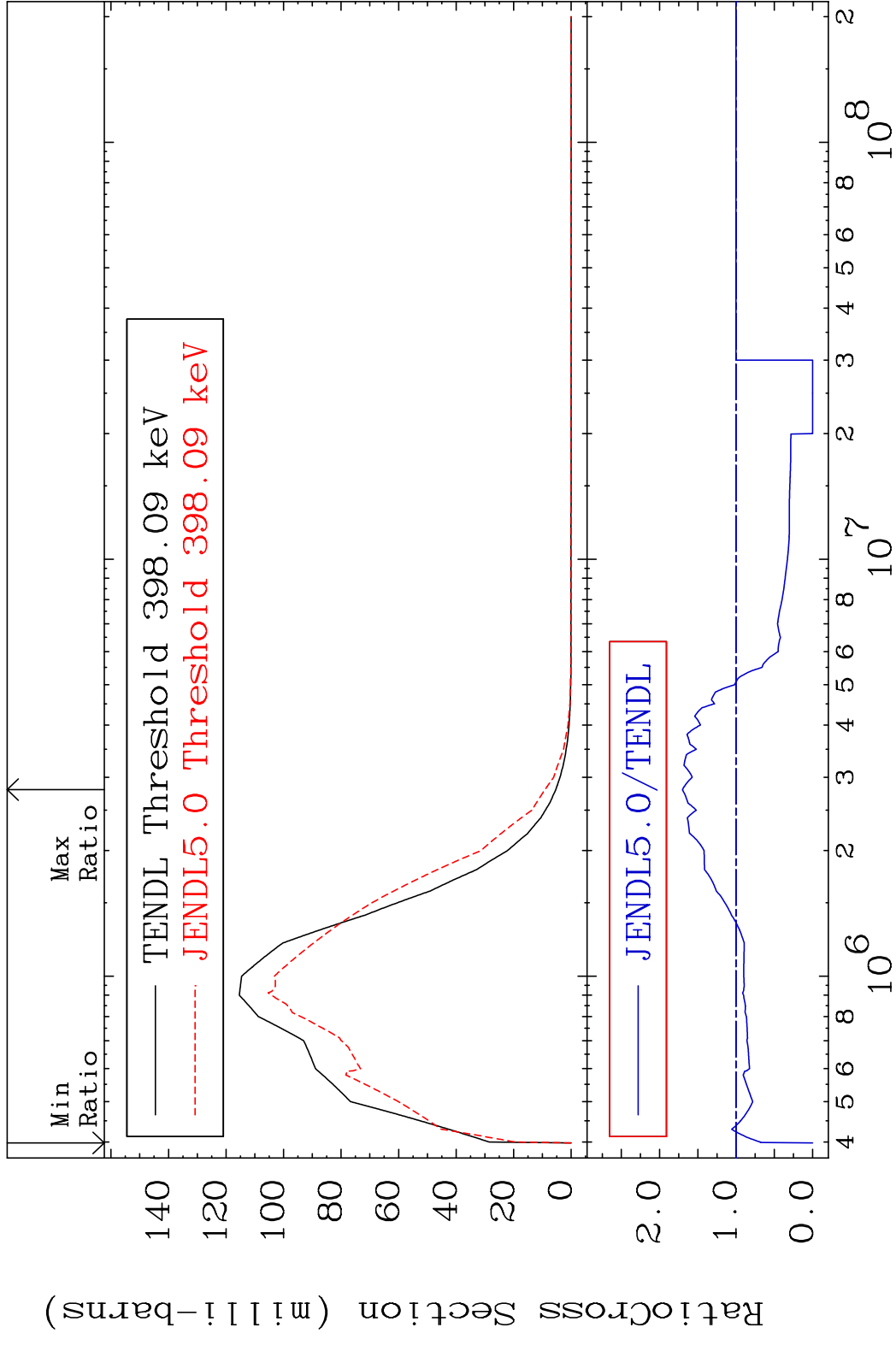
MAT 6422 MT= 51 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 63.34 %



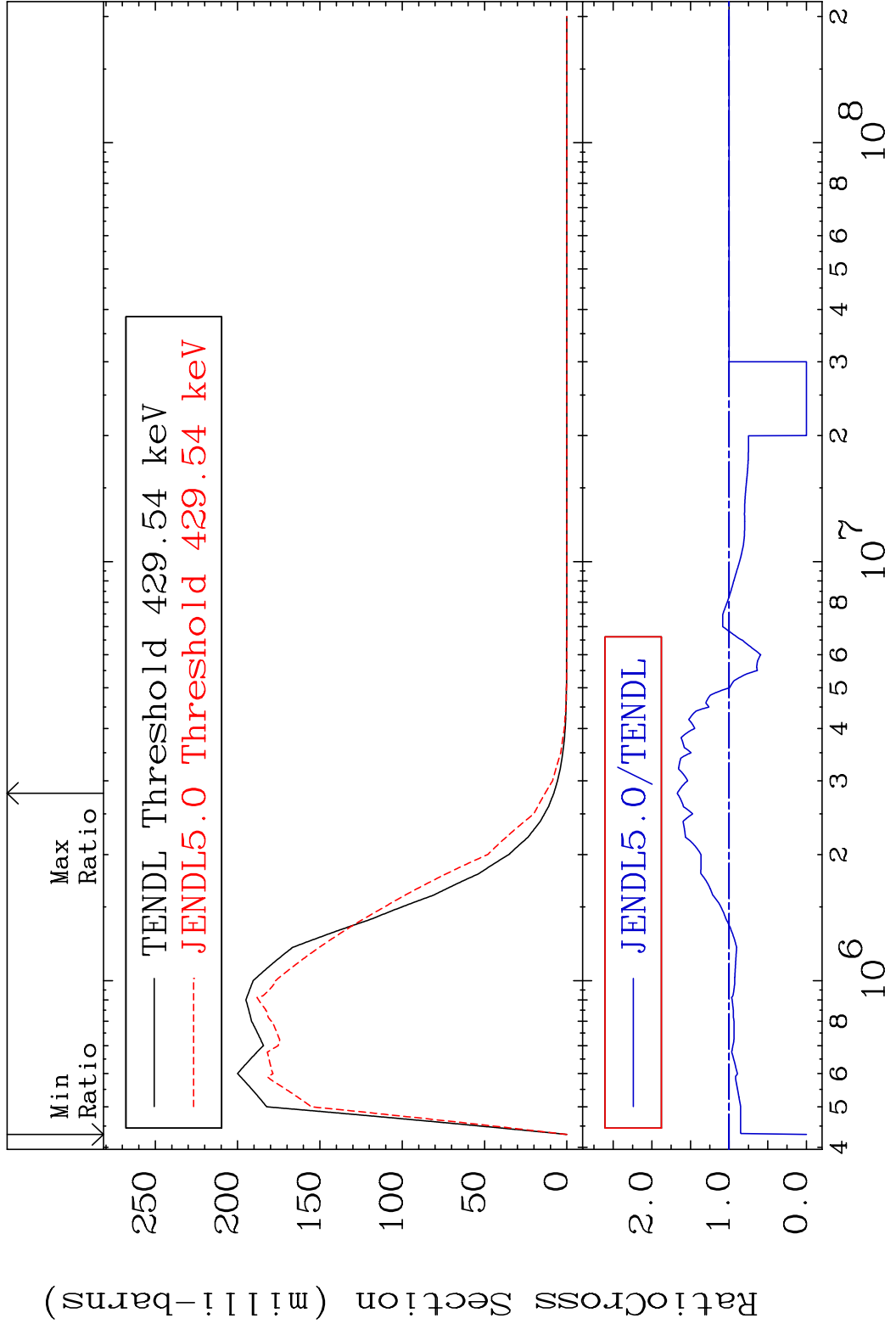
MAT 6422 MT= 52 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 77.40 %



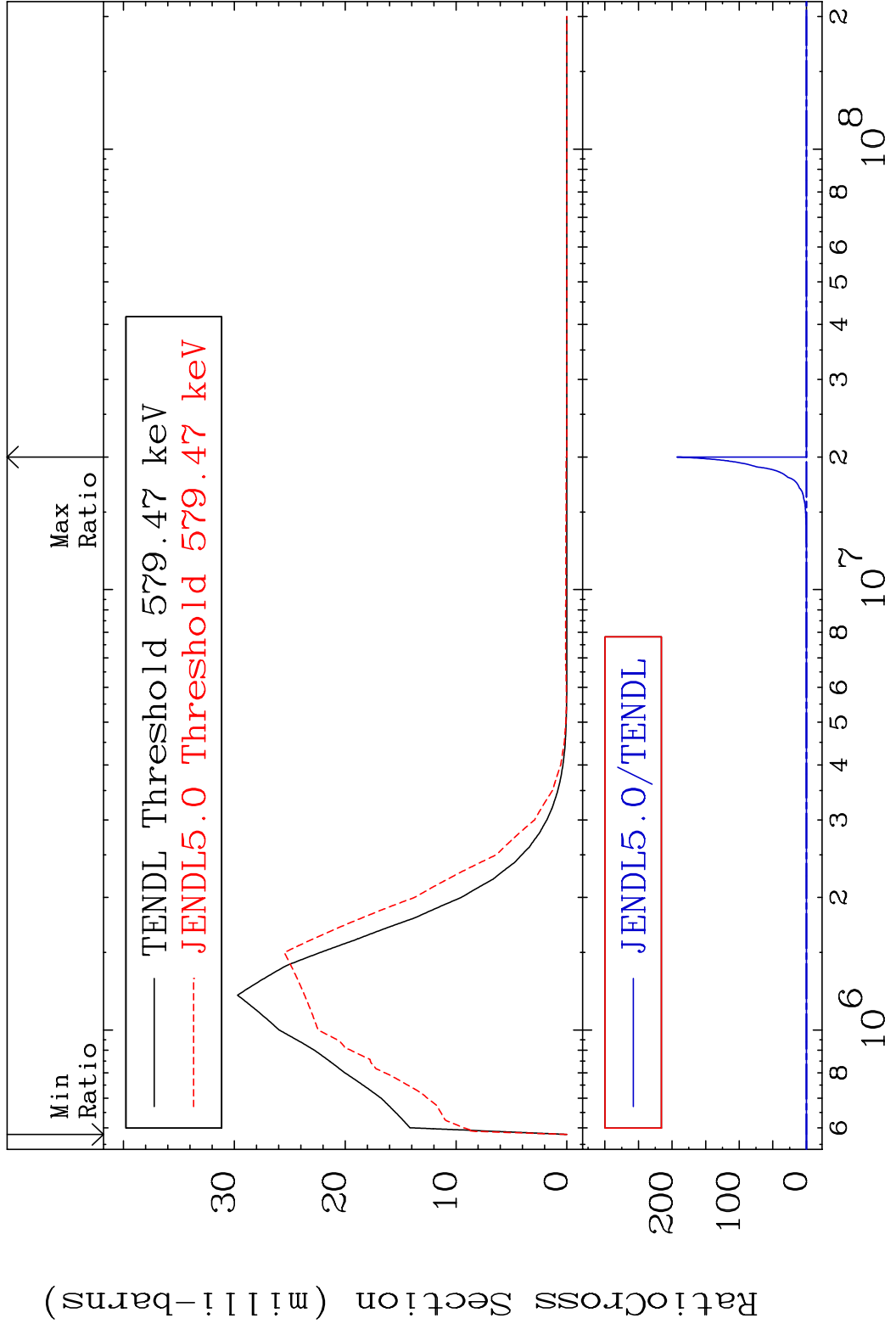
MAT 6422 MT= 53 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 70.24 %



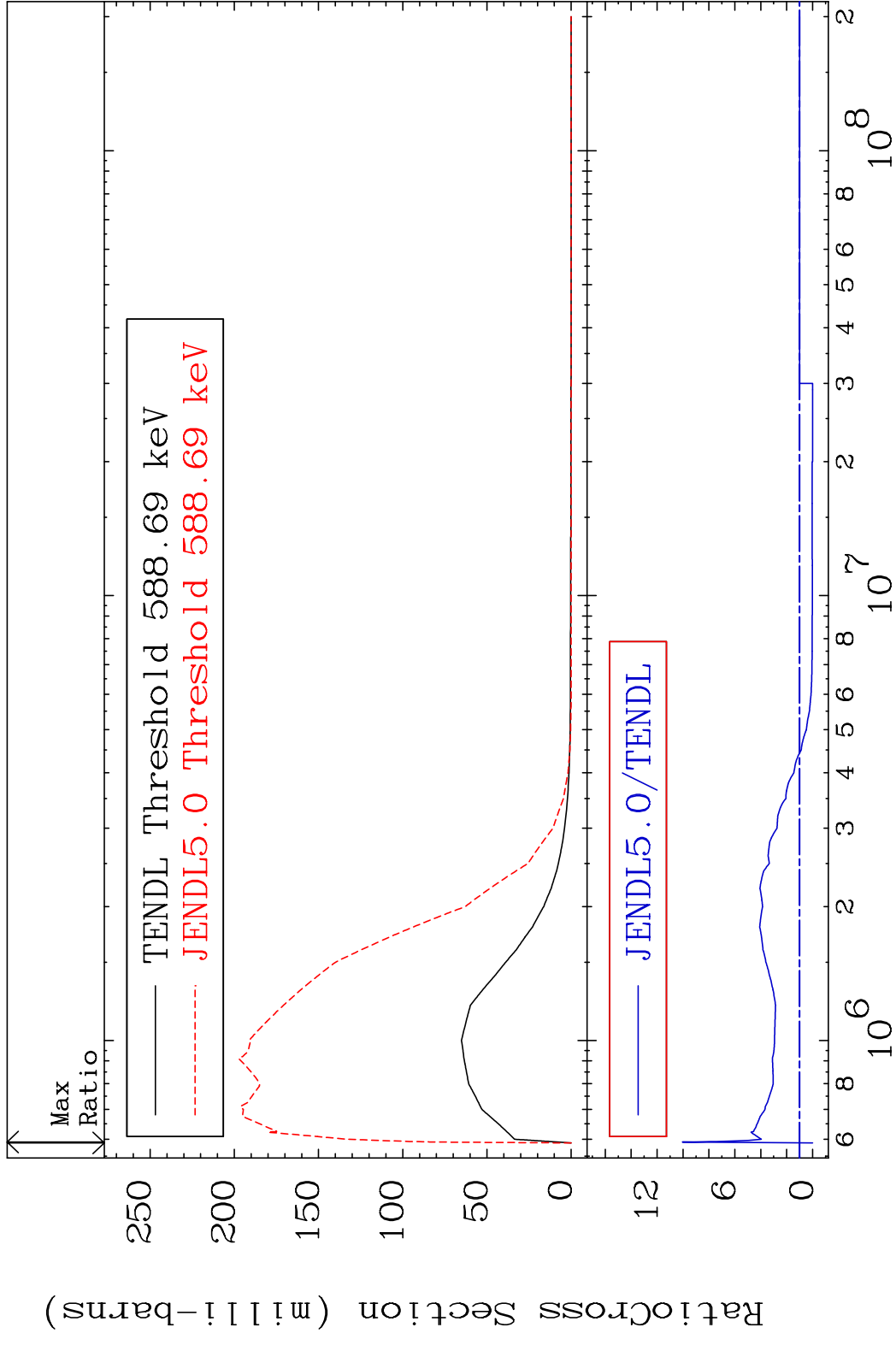
MAT 6422 MT= 54 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 67.26 %



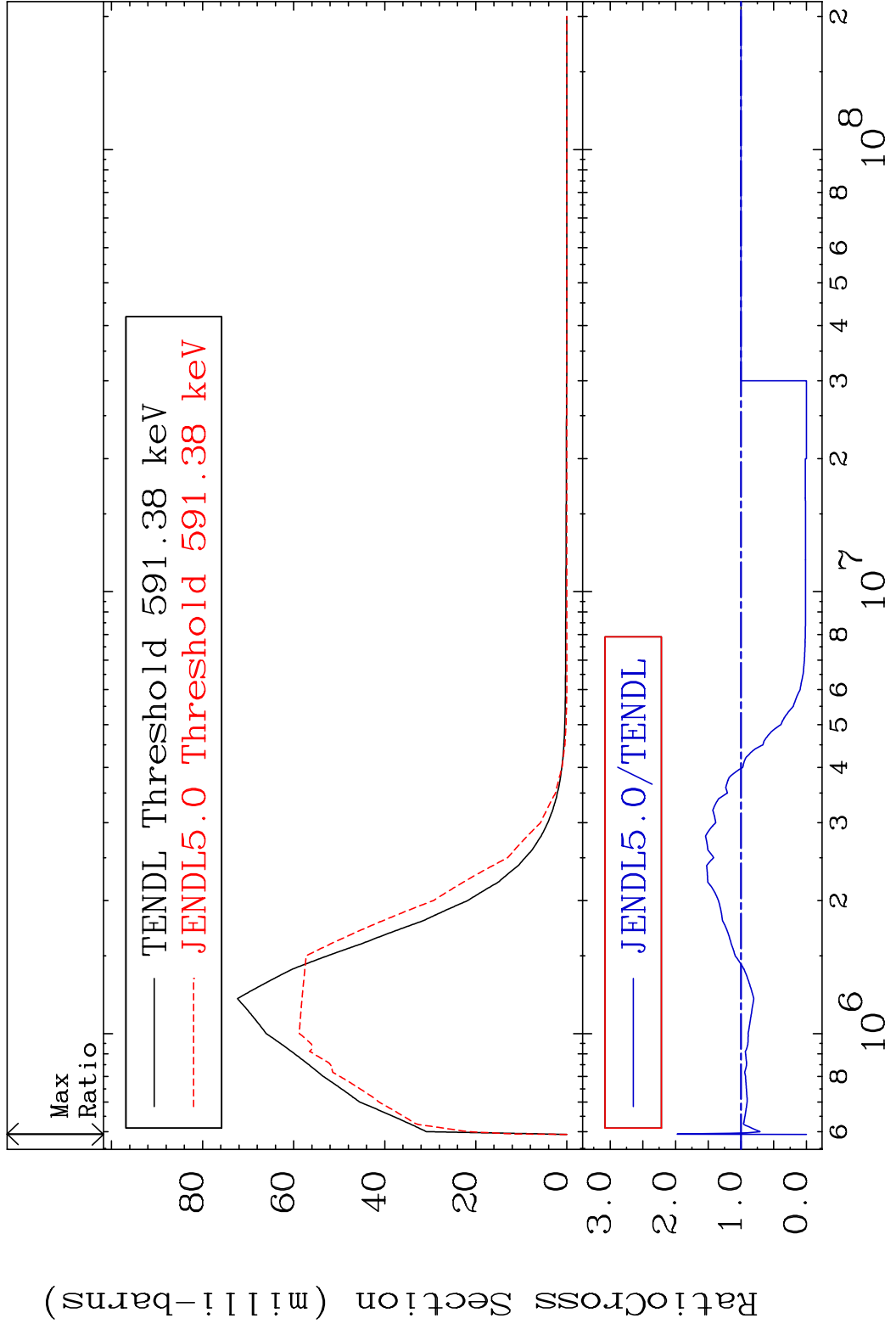
MAT 6422 MT= 55 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 9999. %



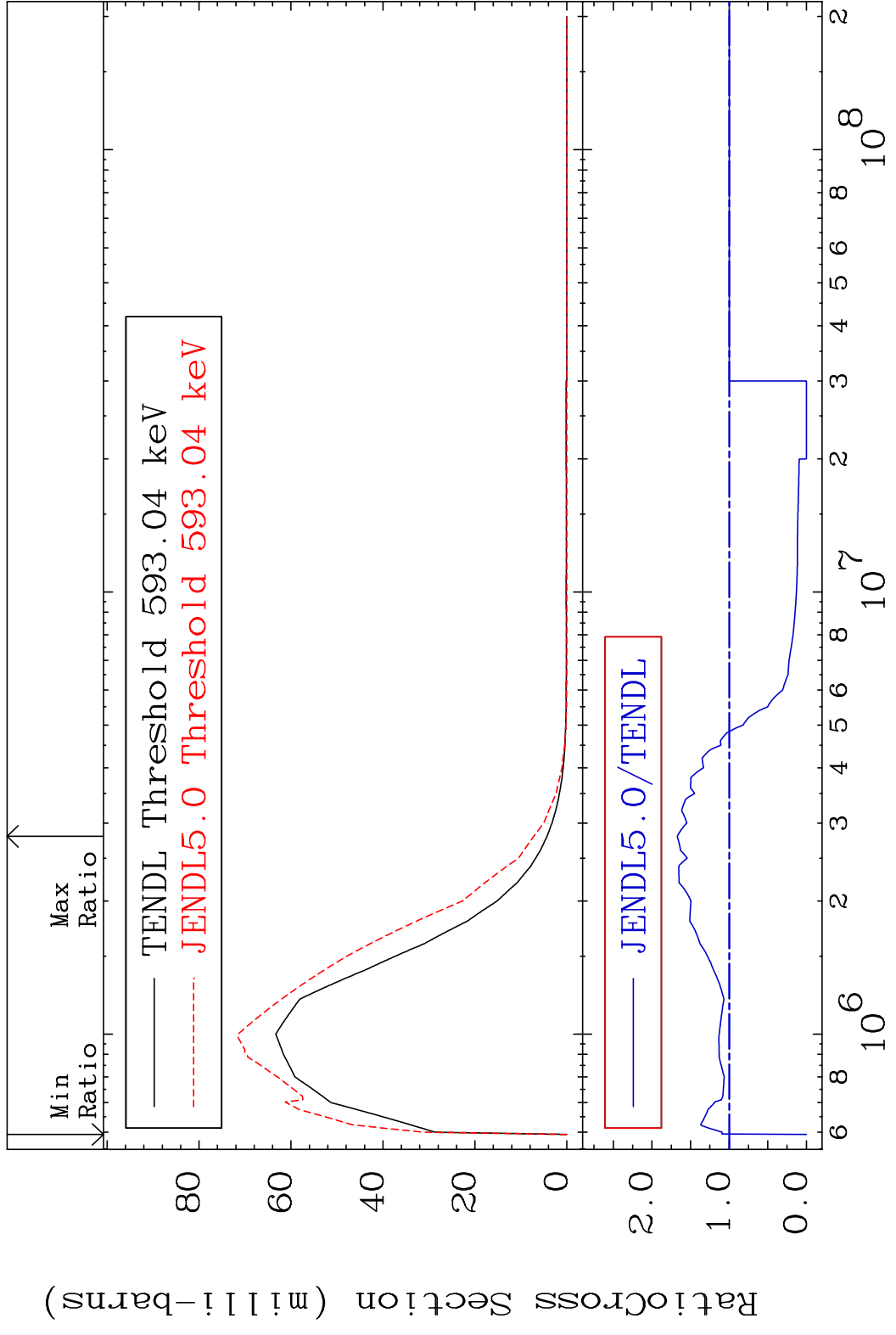
MAT 6422 MT= 56 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 905.1 %



MAT 6422 MT= 57 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 97.51 %

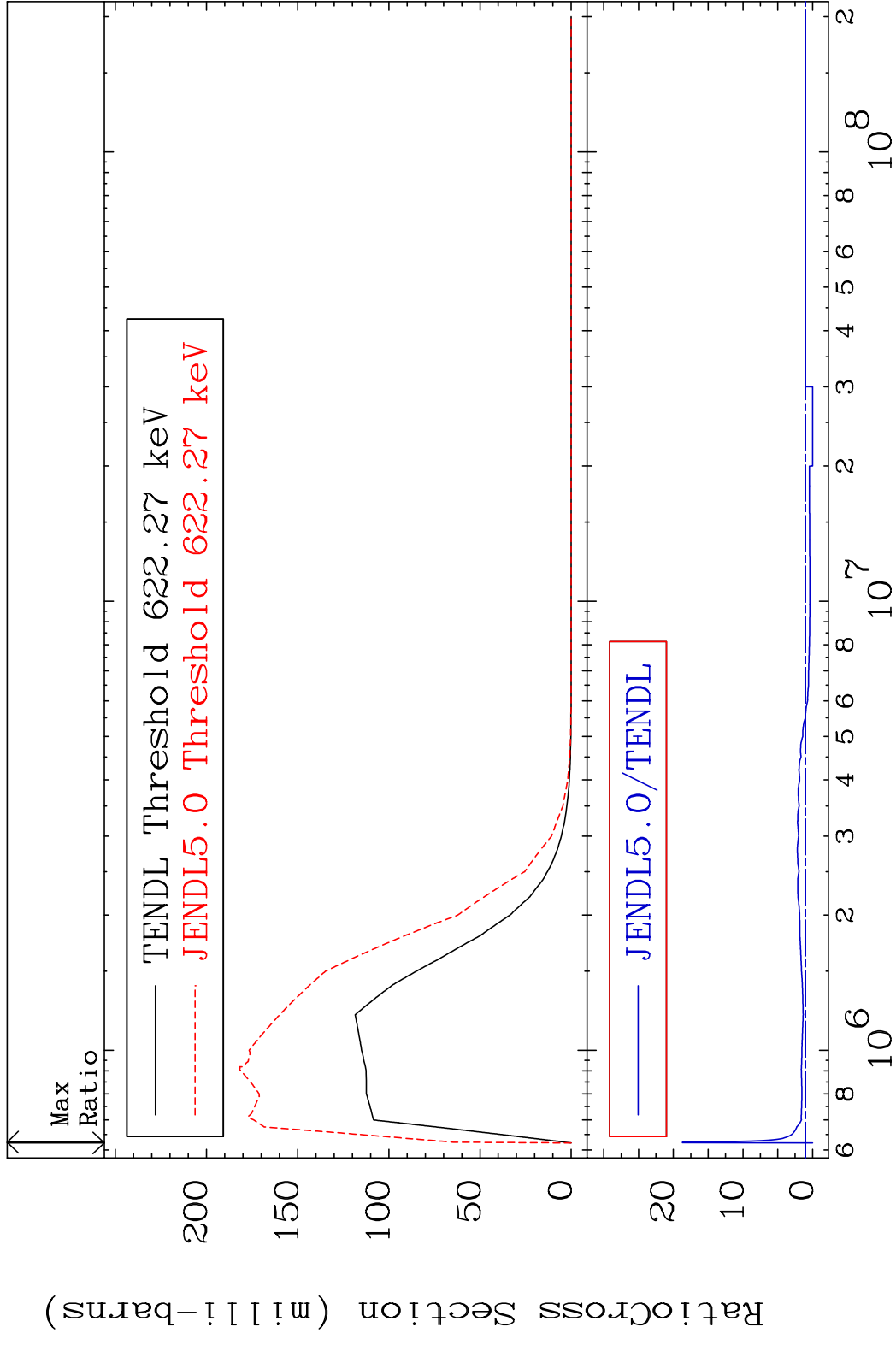


MAT 6422 MT= 58 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 67.31 %

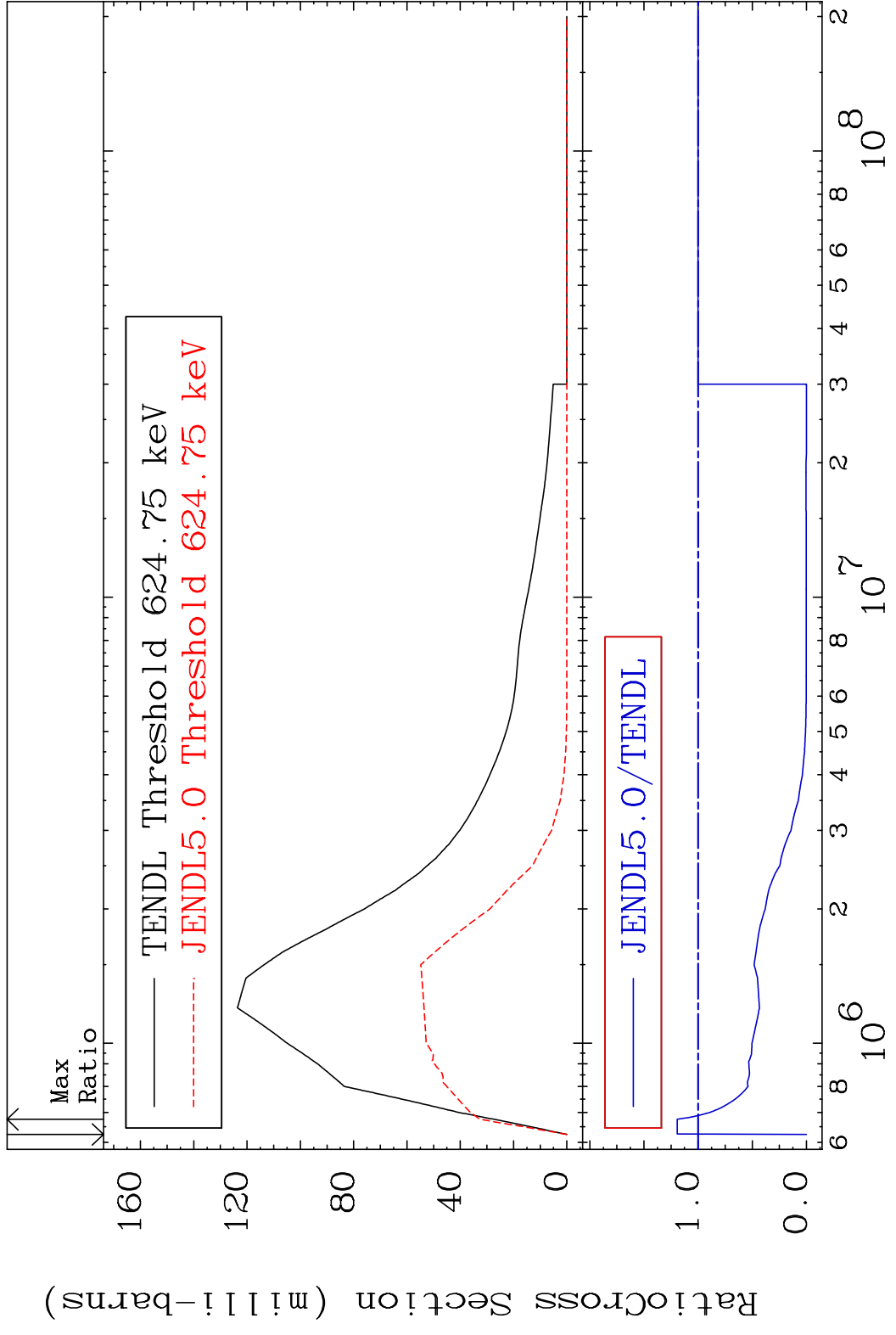


20 Incident Energy (eV) 64-Gd-151

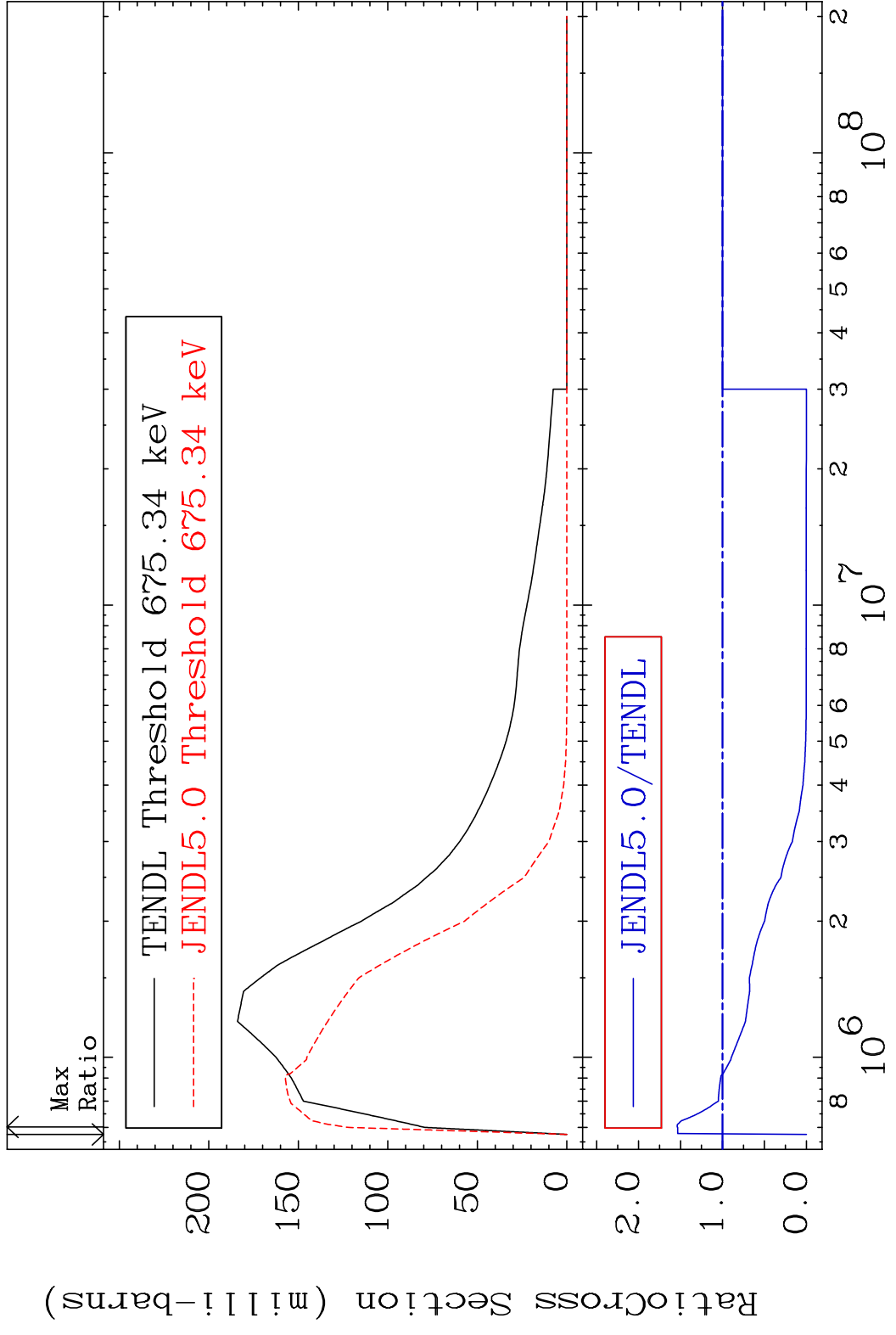
MAT 6422 MT= 59 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 1771. %



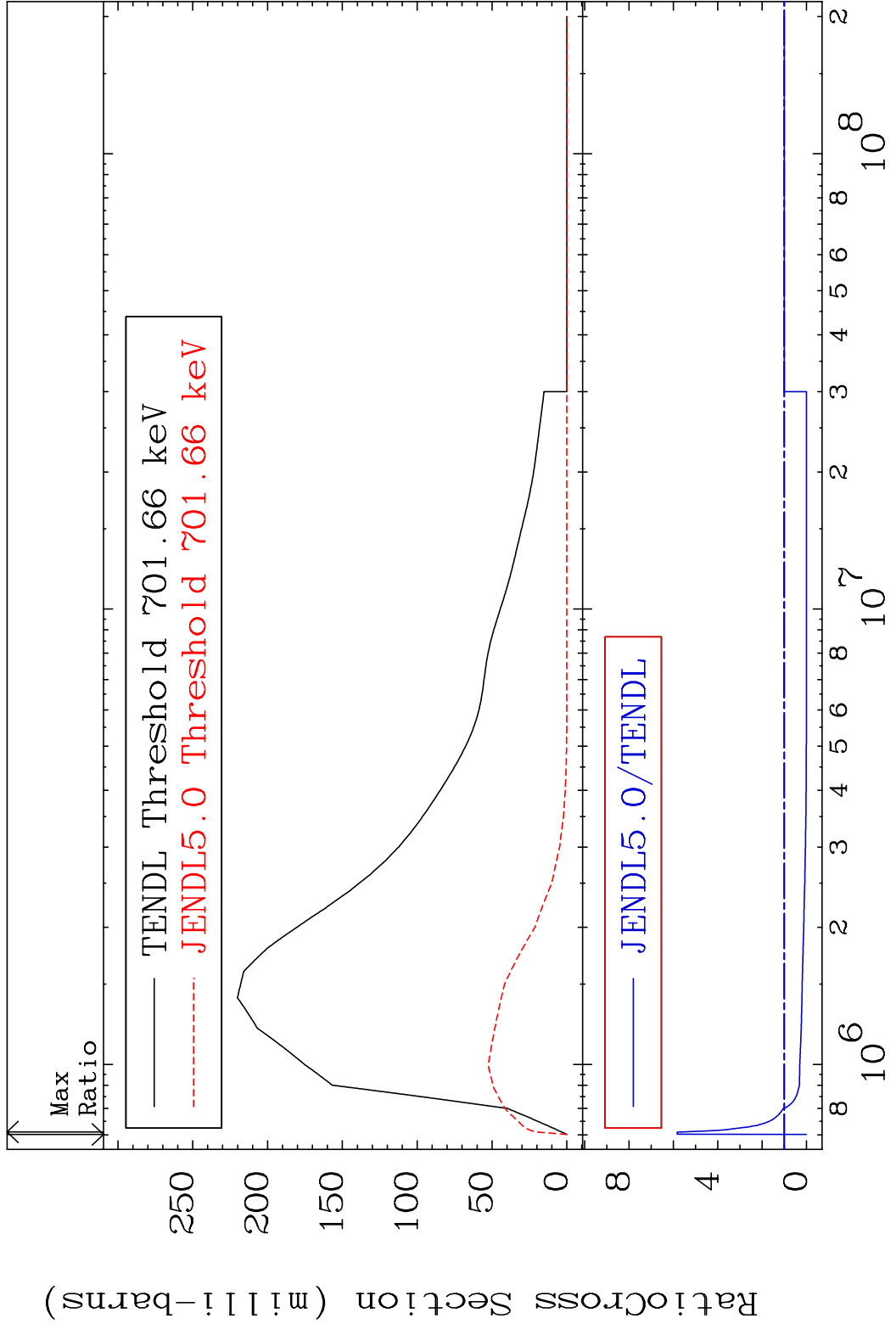
MAT 6422 MT= 60 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 19.31 %



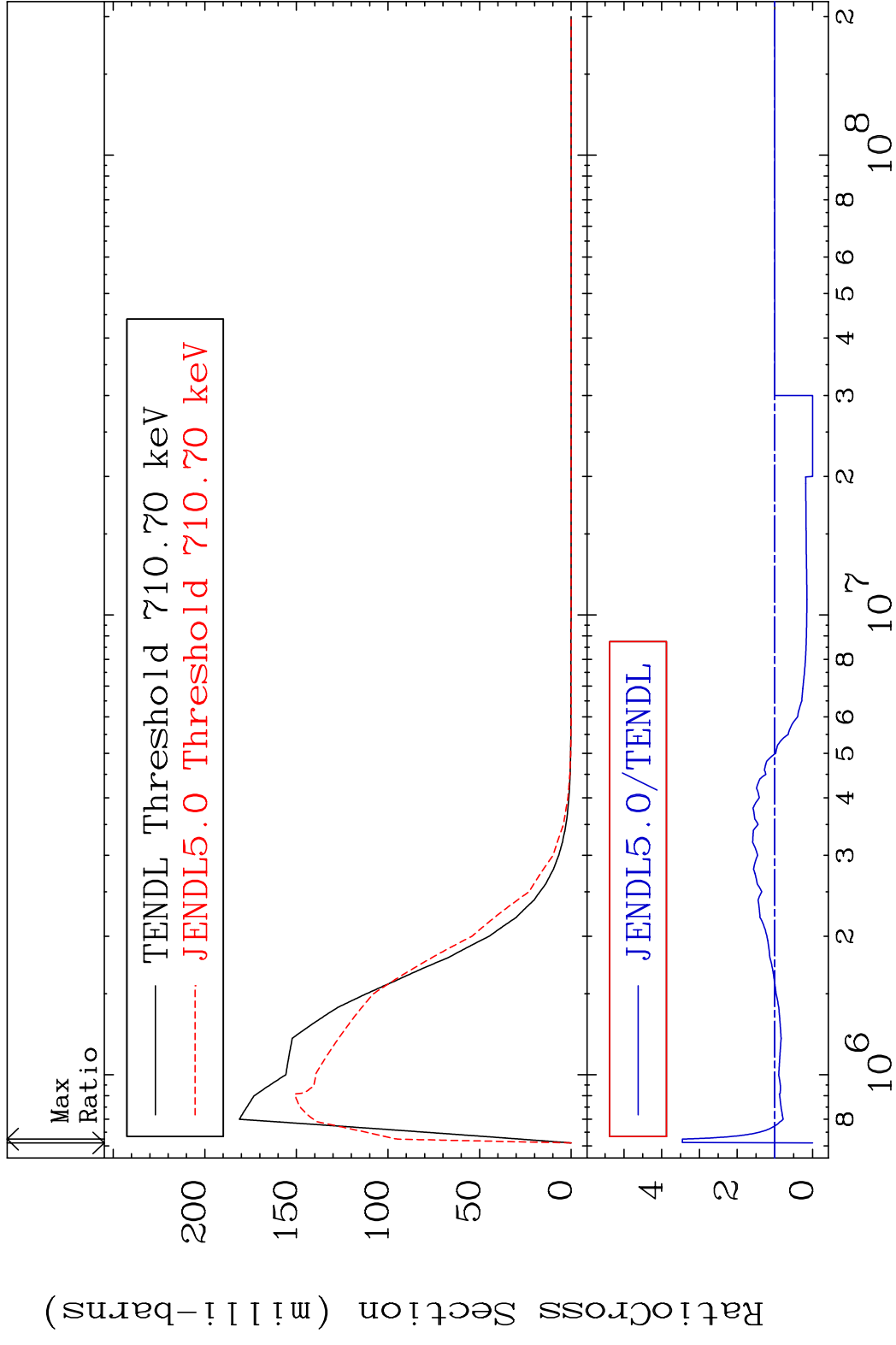
MAT 6422 MT= 61 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 53.98 %



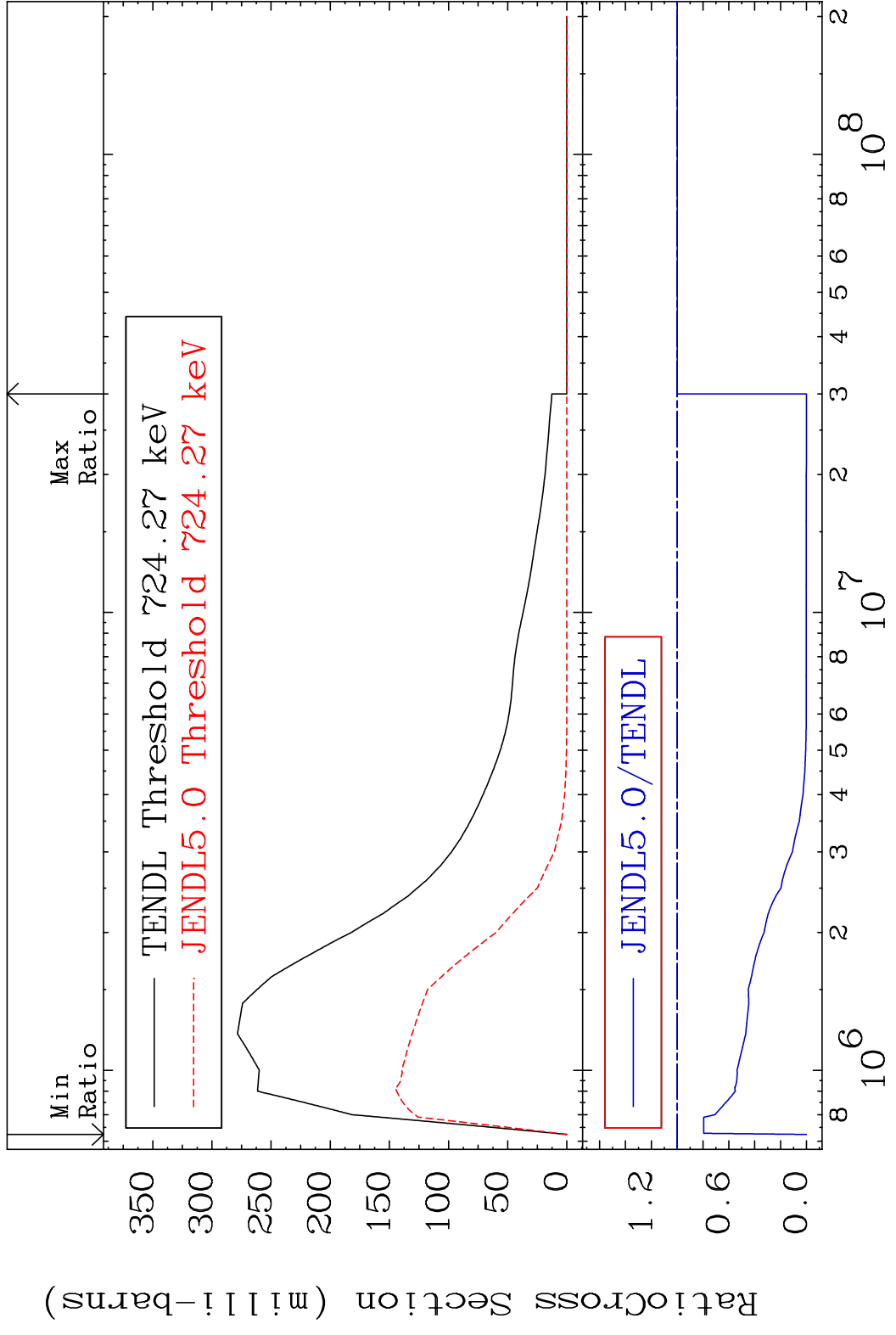
MAT 6422 MT= 62 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 482.5 %



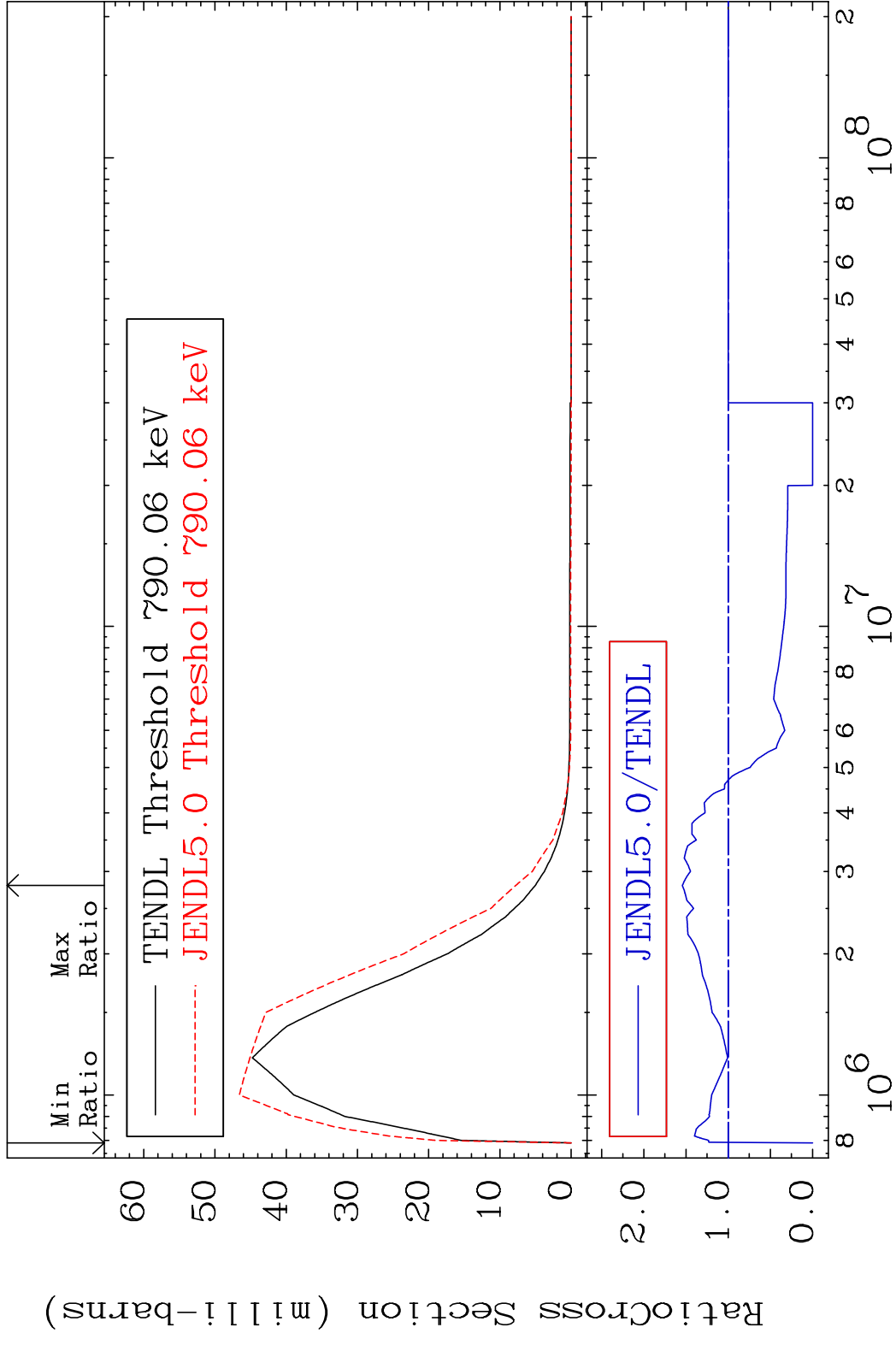
MAT 6422 MT= 63 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 245.1 %



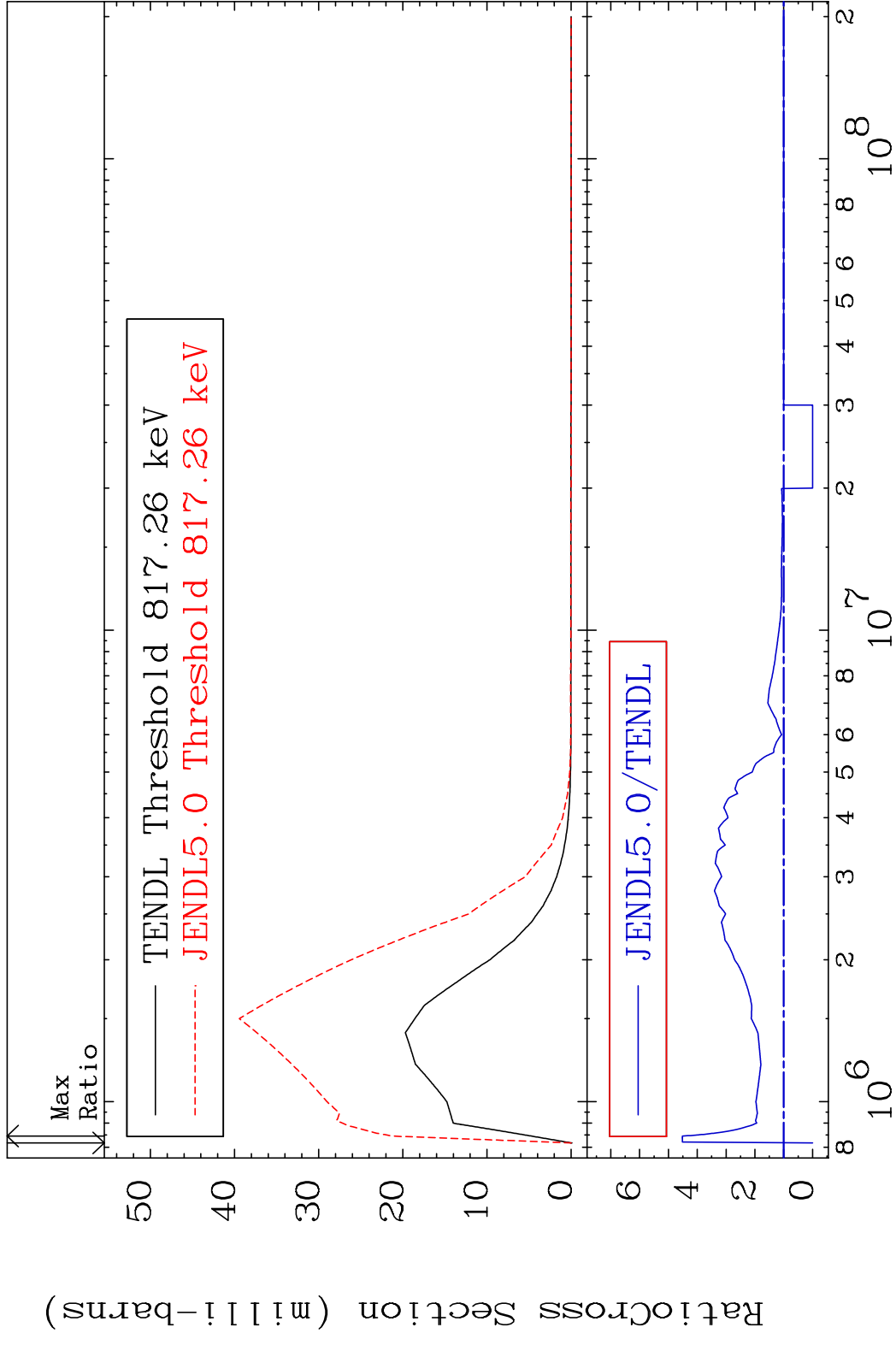
MAT 6422 MT= 64 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 0.000 %



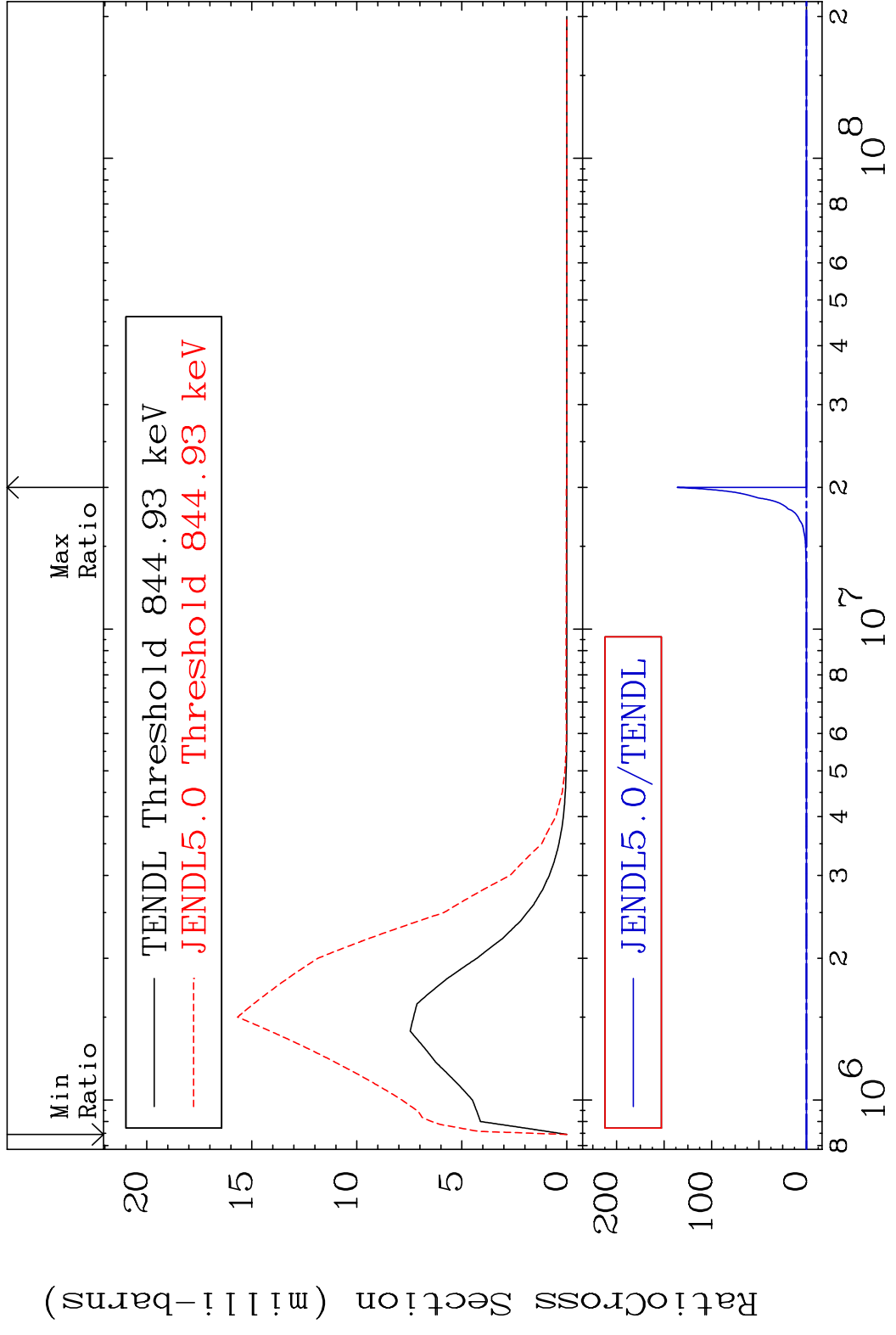
MAT 6422 MT= 65 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 54.35 %



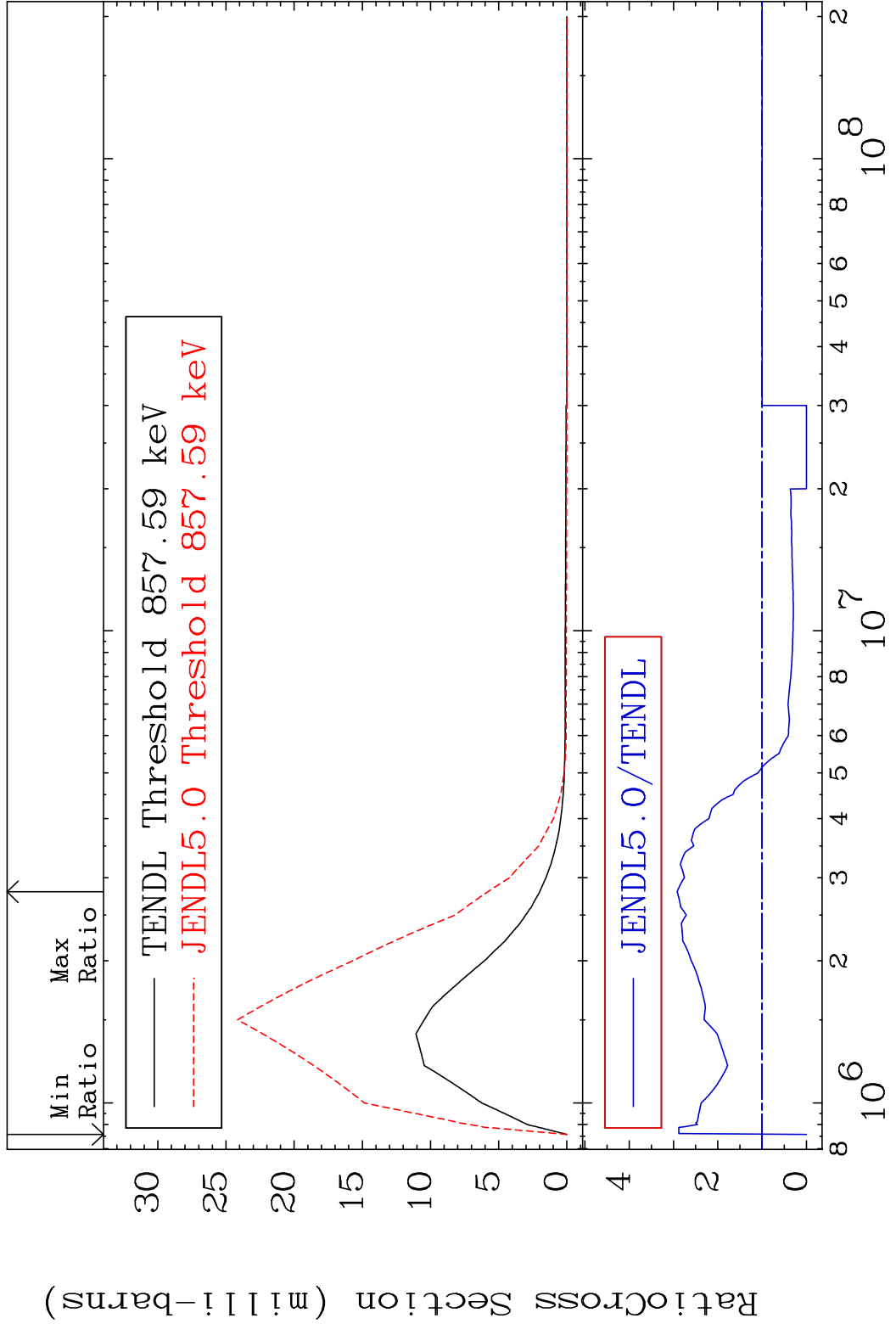
MAT 6422 MT= 66 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 351.7 %



MAT 6422 MT= 67 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 9999. %

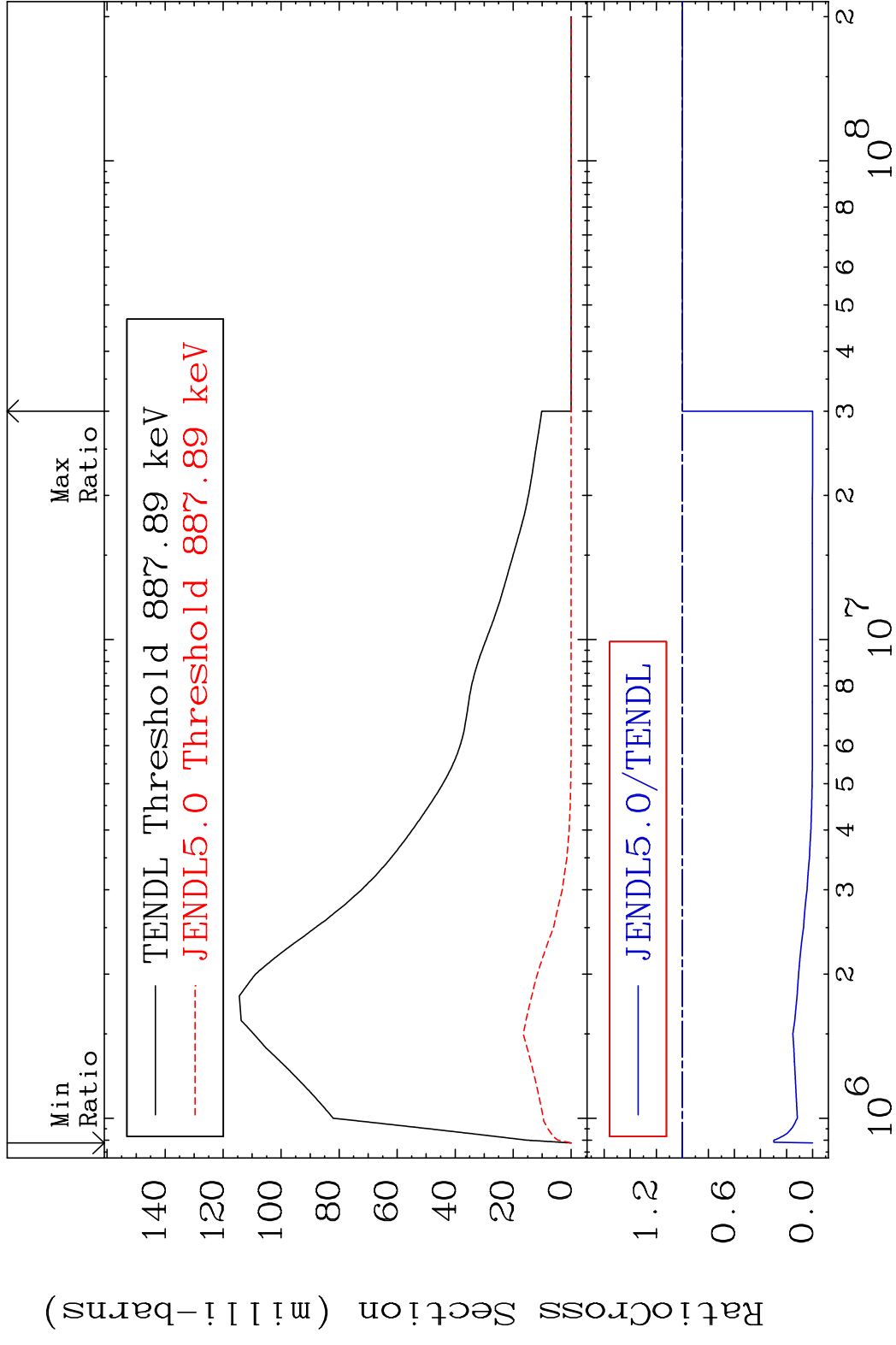


MAT 6422 MT= 68 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 191.7 %

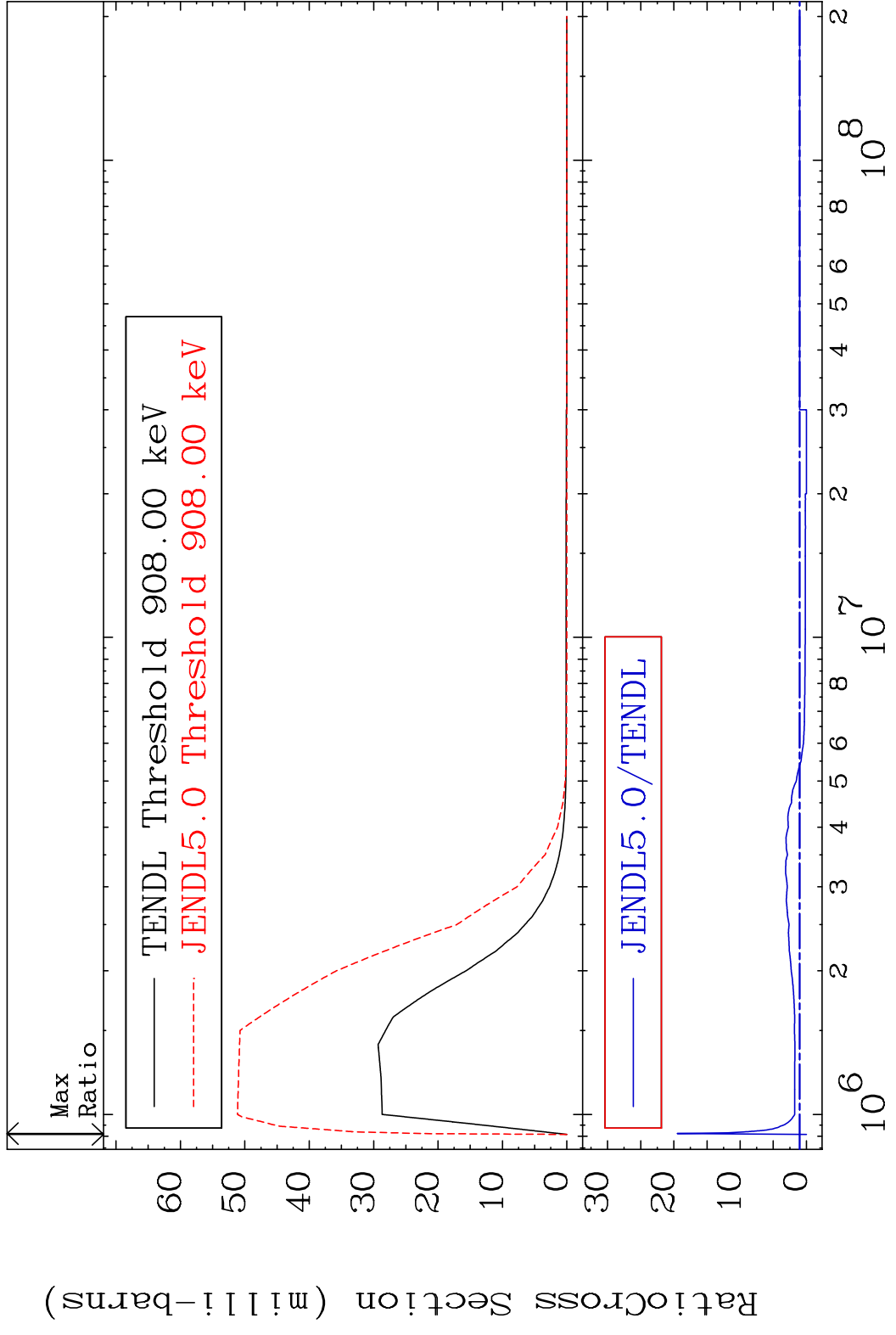


30 64-Gd-151

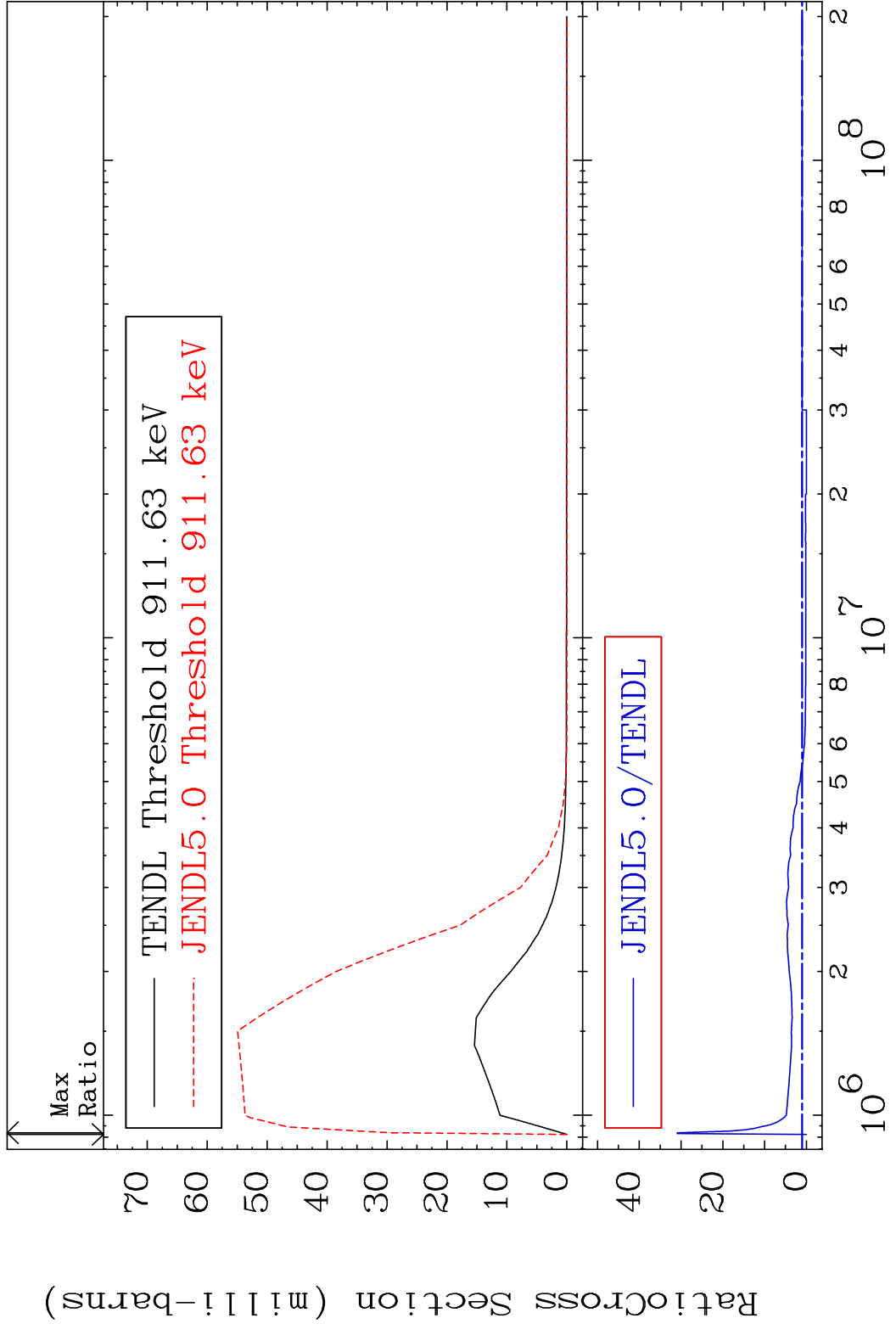
MAT 6422 MT= 69 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 0.000 %



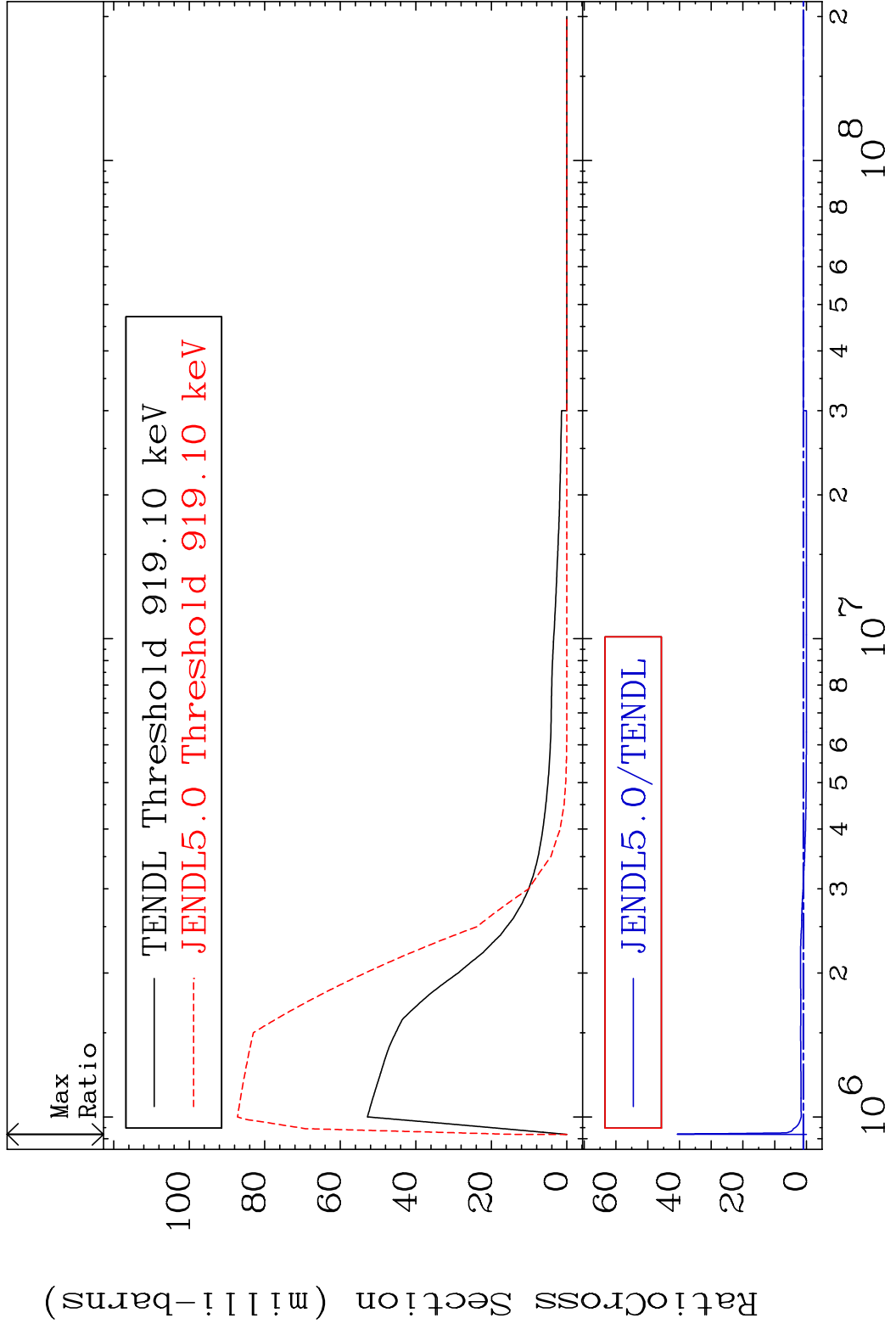
MAT 6422 MT= 70 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 1850. %



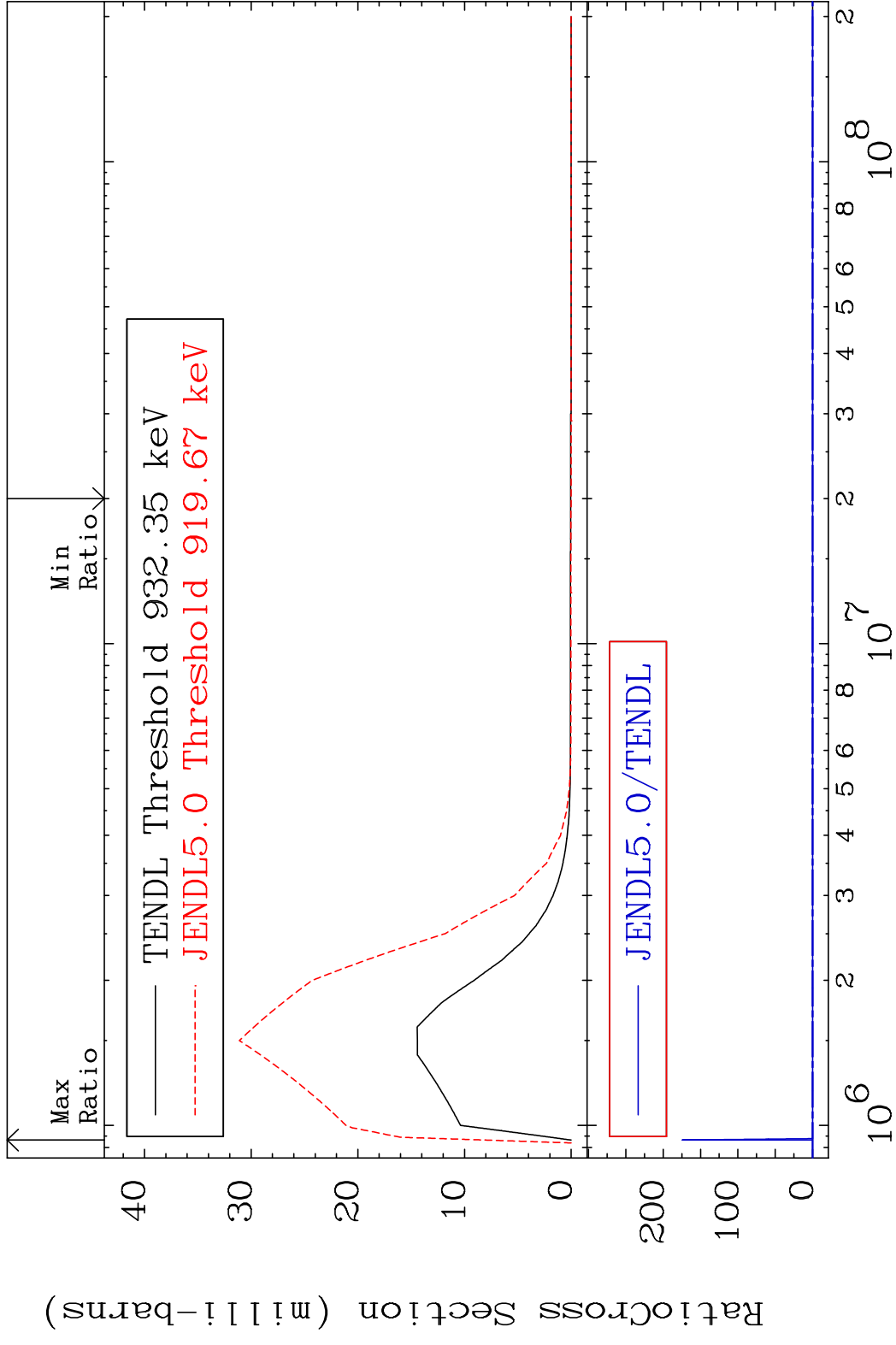
MAT 6422 MT= 71 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 2993. %



MAT 6422 MT= 72 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 3971. %

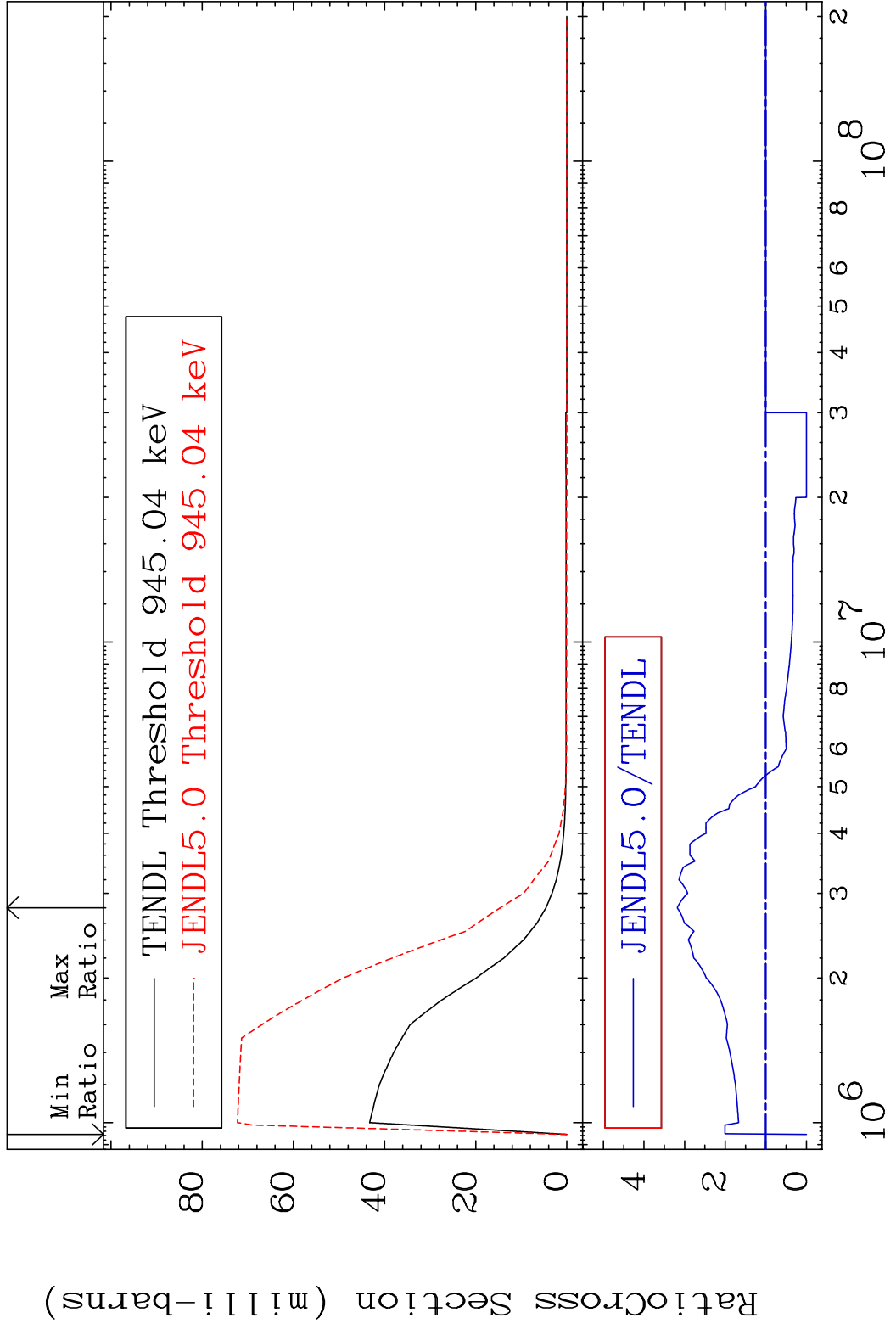


MAT 6422 MT= 73 (n, n') Level 64-Gd-151  
 Cross Section -100.0 To 9999. %

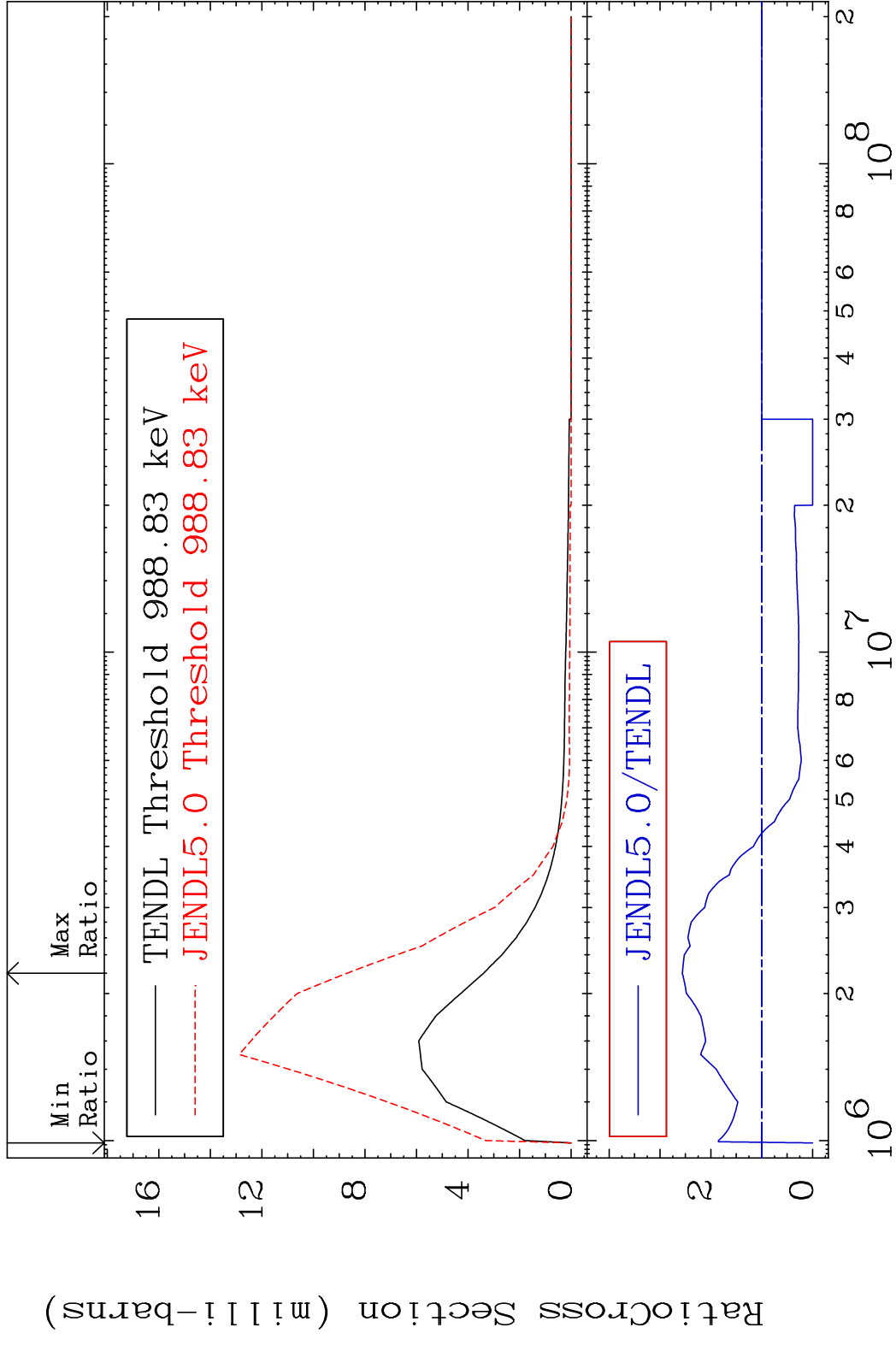


35 Incident Energy (eV) 64-Gd-151

MAT 6422 MT= 74 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 218.3 %



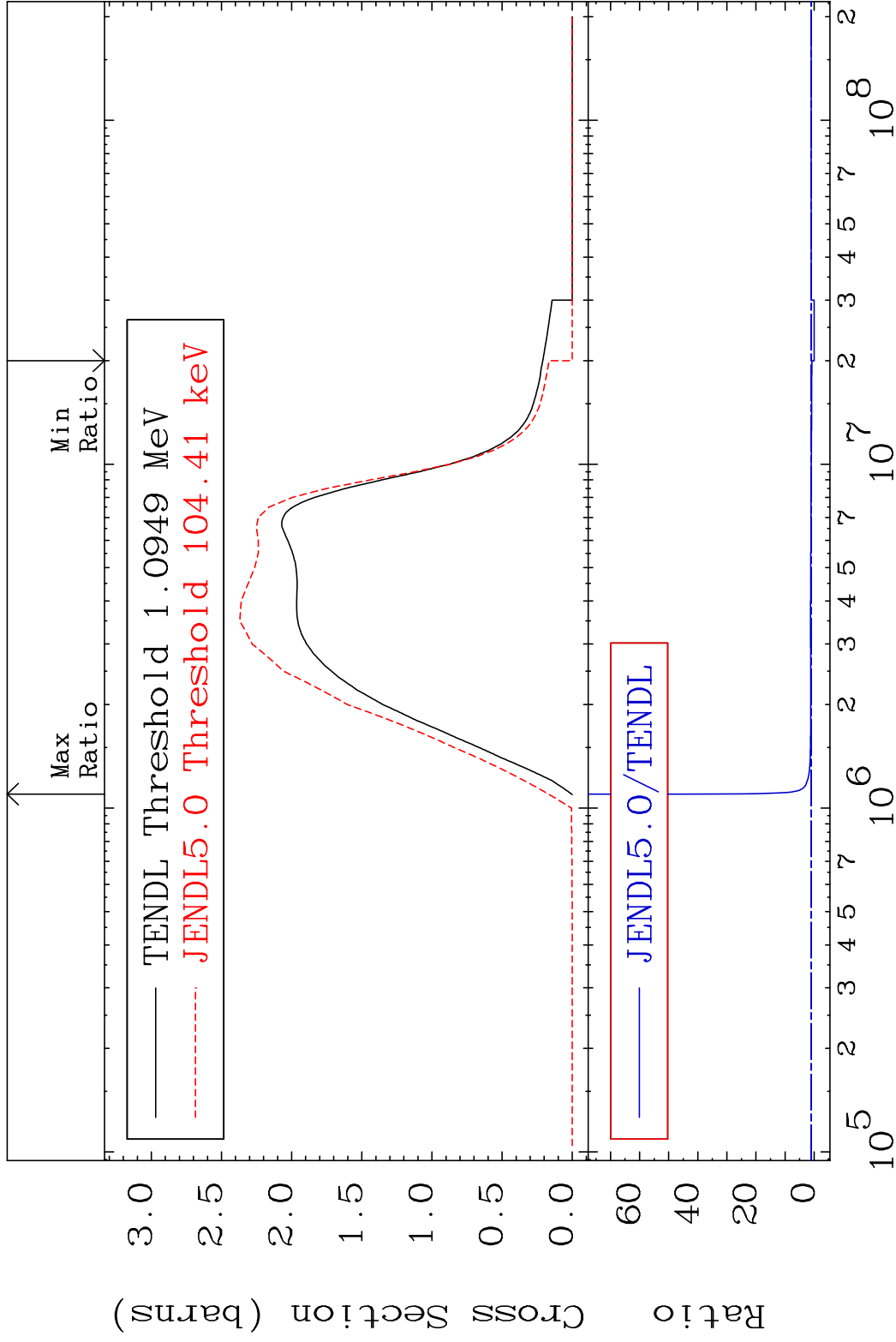
MAT 6422 MT= 75 (n,n') Level 64-Gd-151  
 Cross Section -100.0 To 156.1 %



37 Incident Energy (eV) 64-Gd-151

MAT 6422

(n, n') Continuum 64-Gd-151  
Cross Section -100.0 To 4386. %



38

Incident Energy (eV)

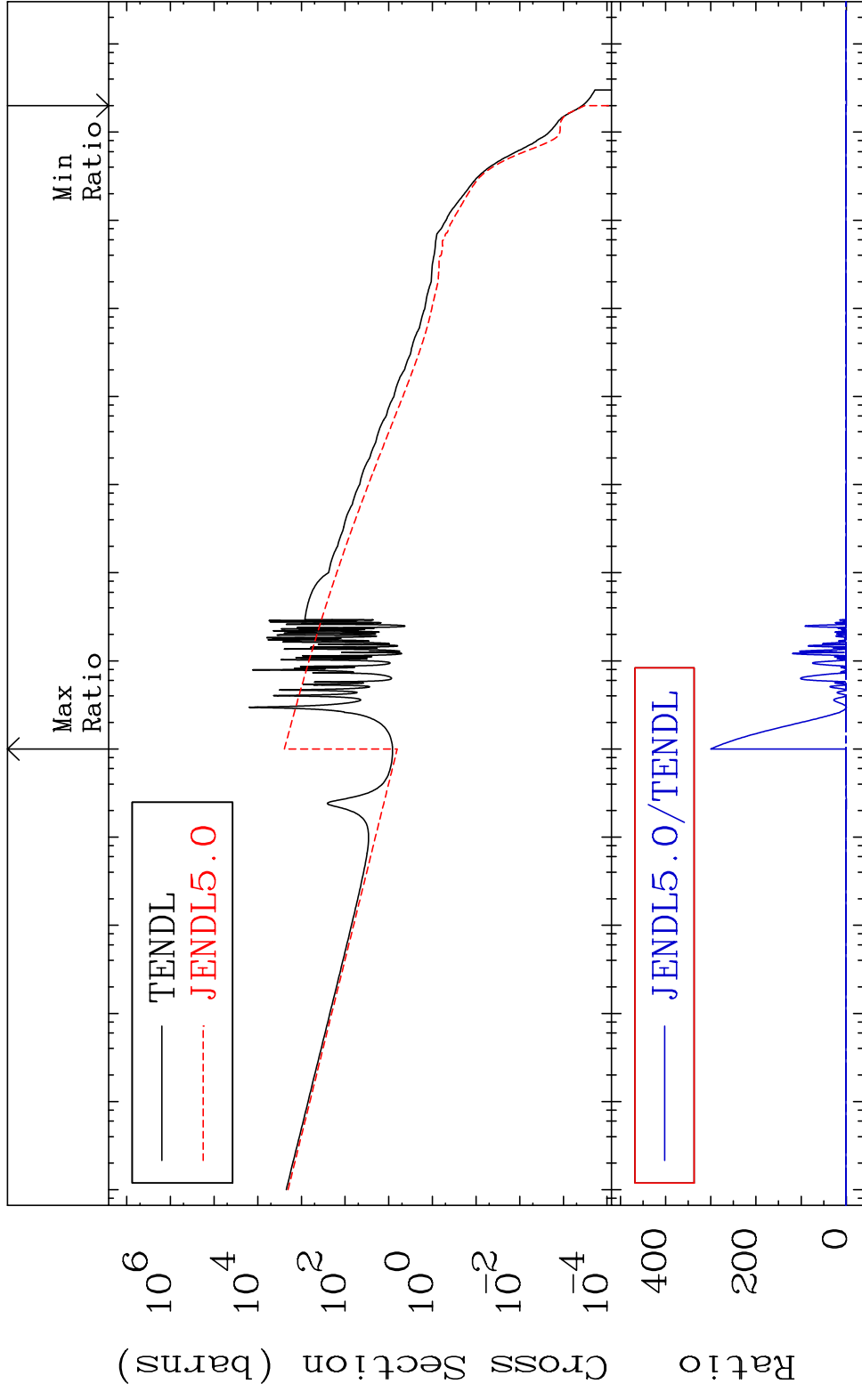
64-Gd-151

MAT 6422

64-Gd-151

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %

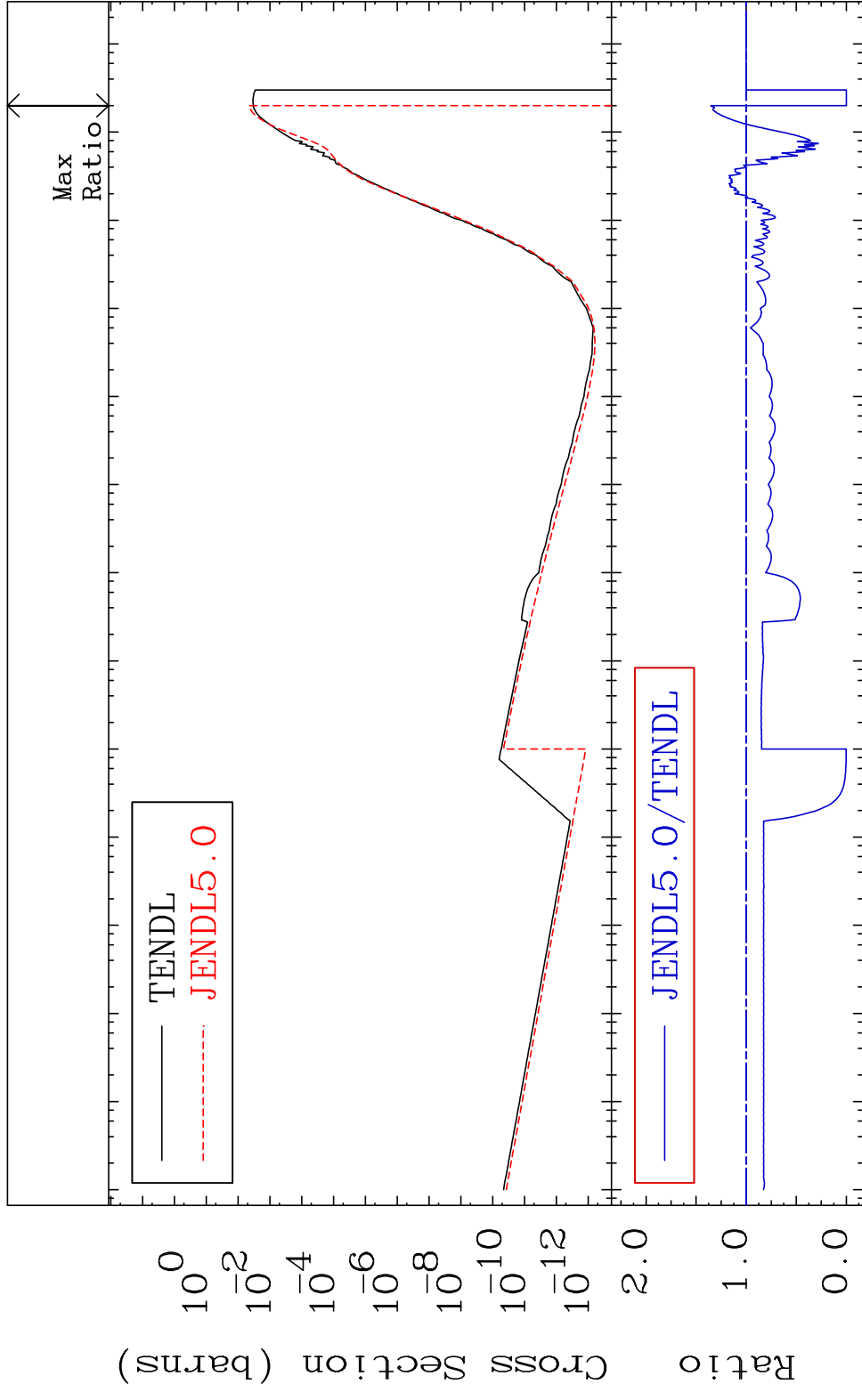


MAT 6422

(n, p)

64-Gd-151

Cross Section -100.0 To 35.44 %

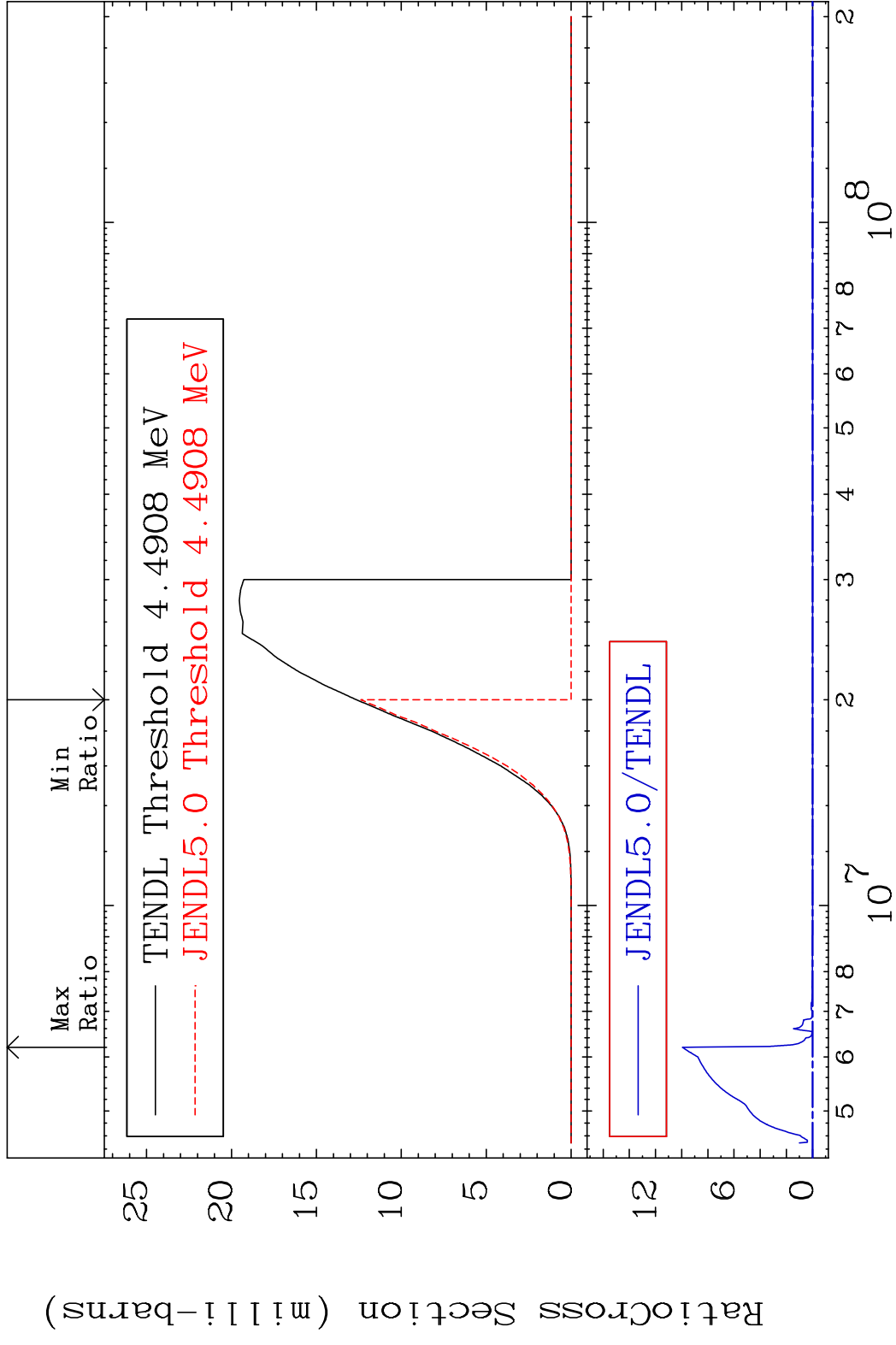


40

Incident Energy (eV)

64-Gd-151

MAT 6422 (n,d) 64-Gd-151  
 Cross Section -100.0 To 9999. %

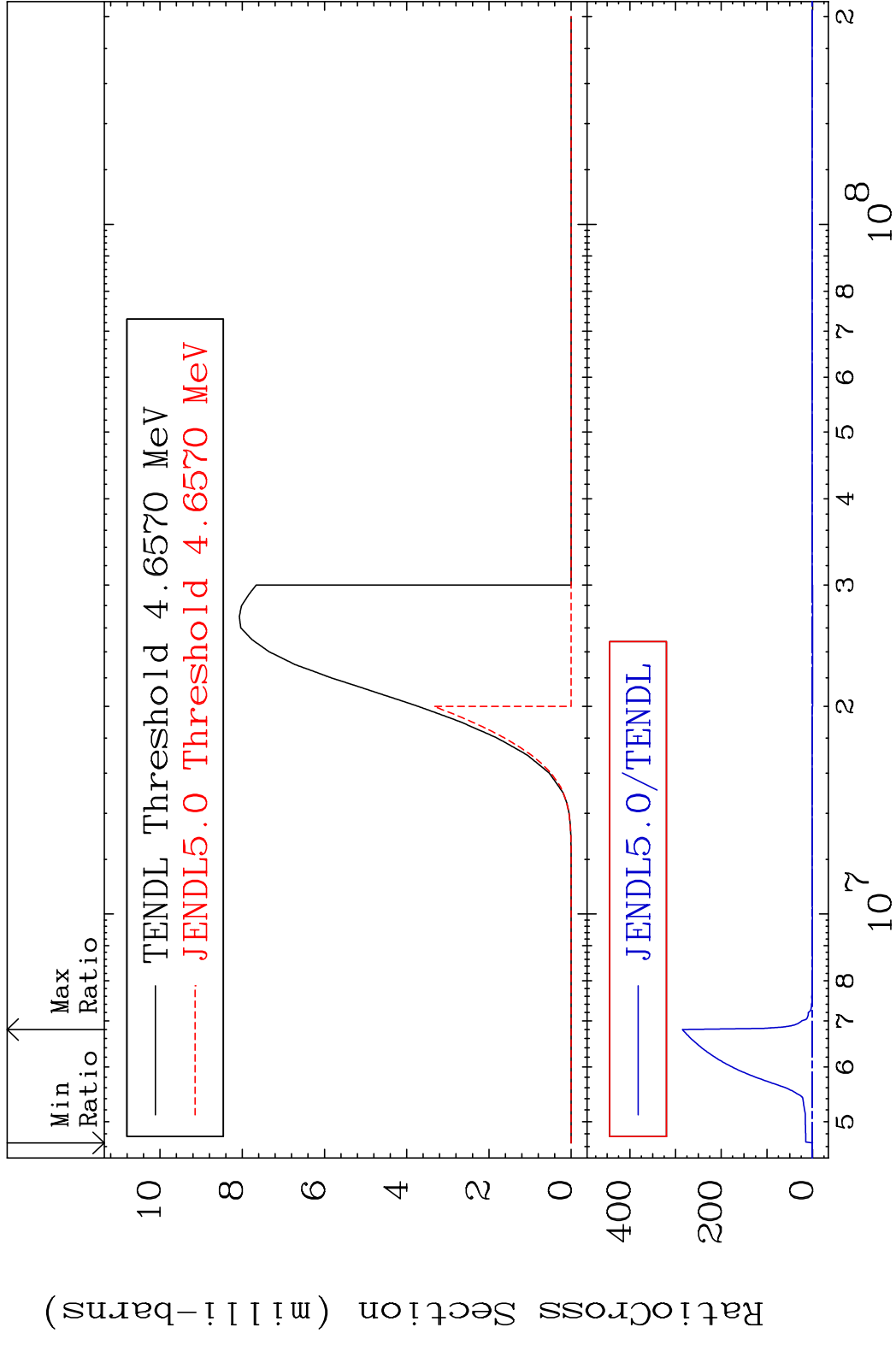


MAT 6422

(n, t)

64-Gd-151

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

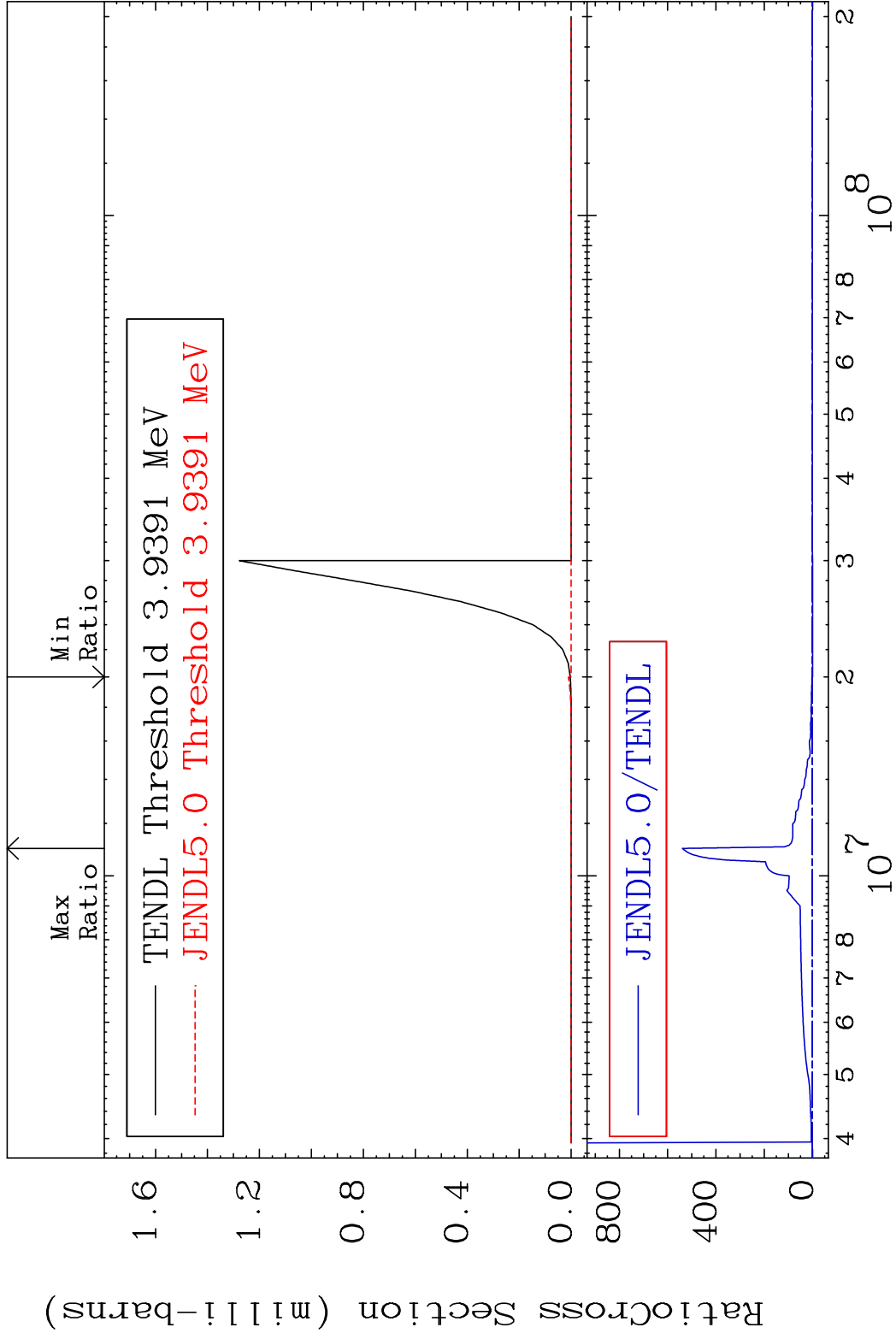
64-Gd-151

MAT 6422

(n, He-3)

64-Gd-151

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

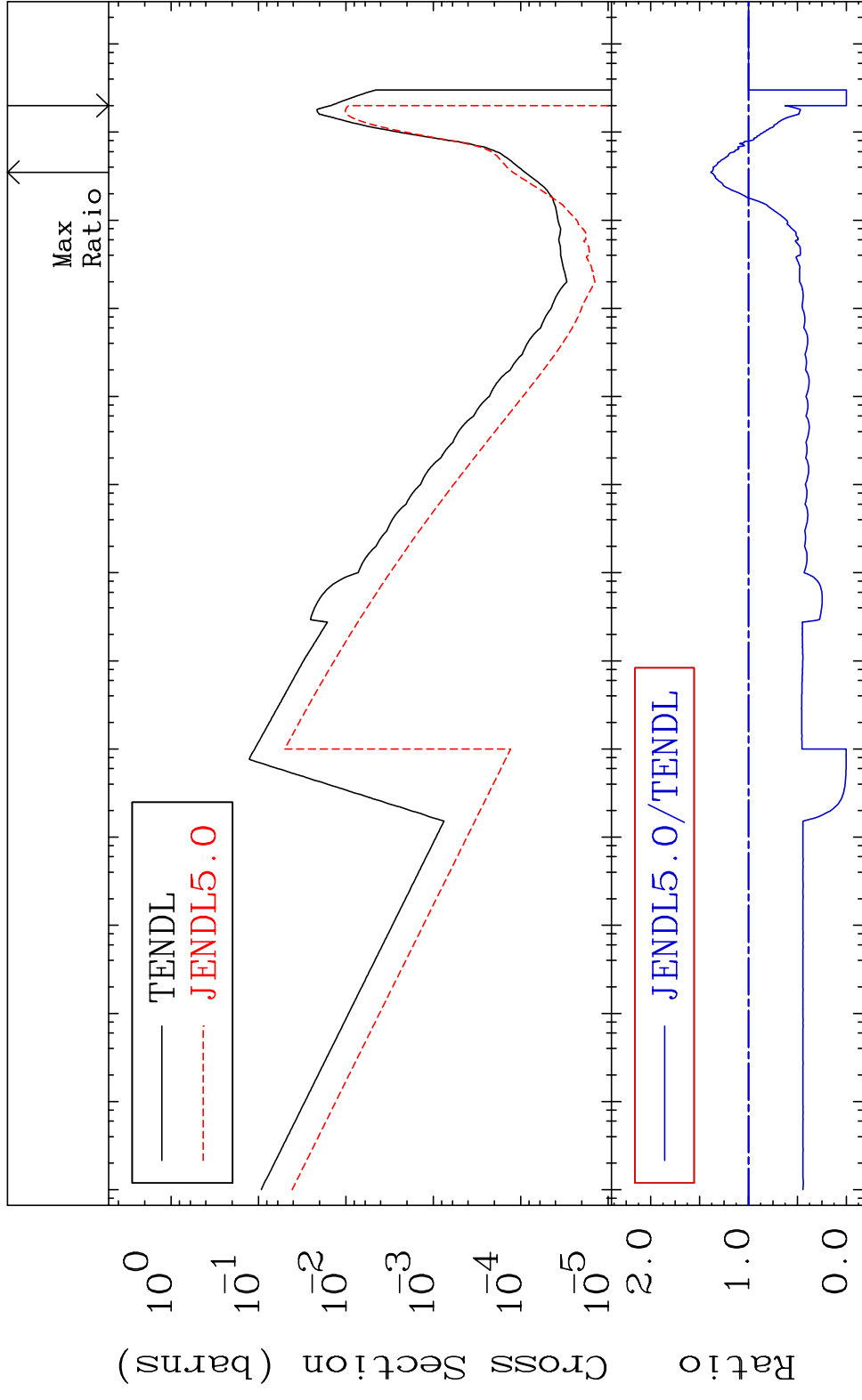
64-Gd-151

MAT 6422

(n,  $\alpha$ )

64-Gd-151

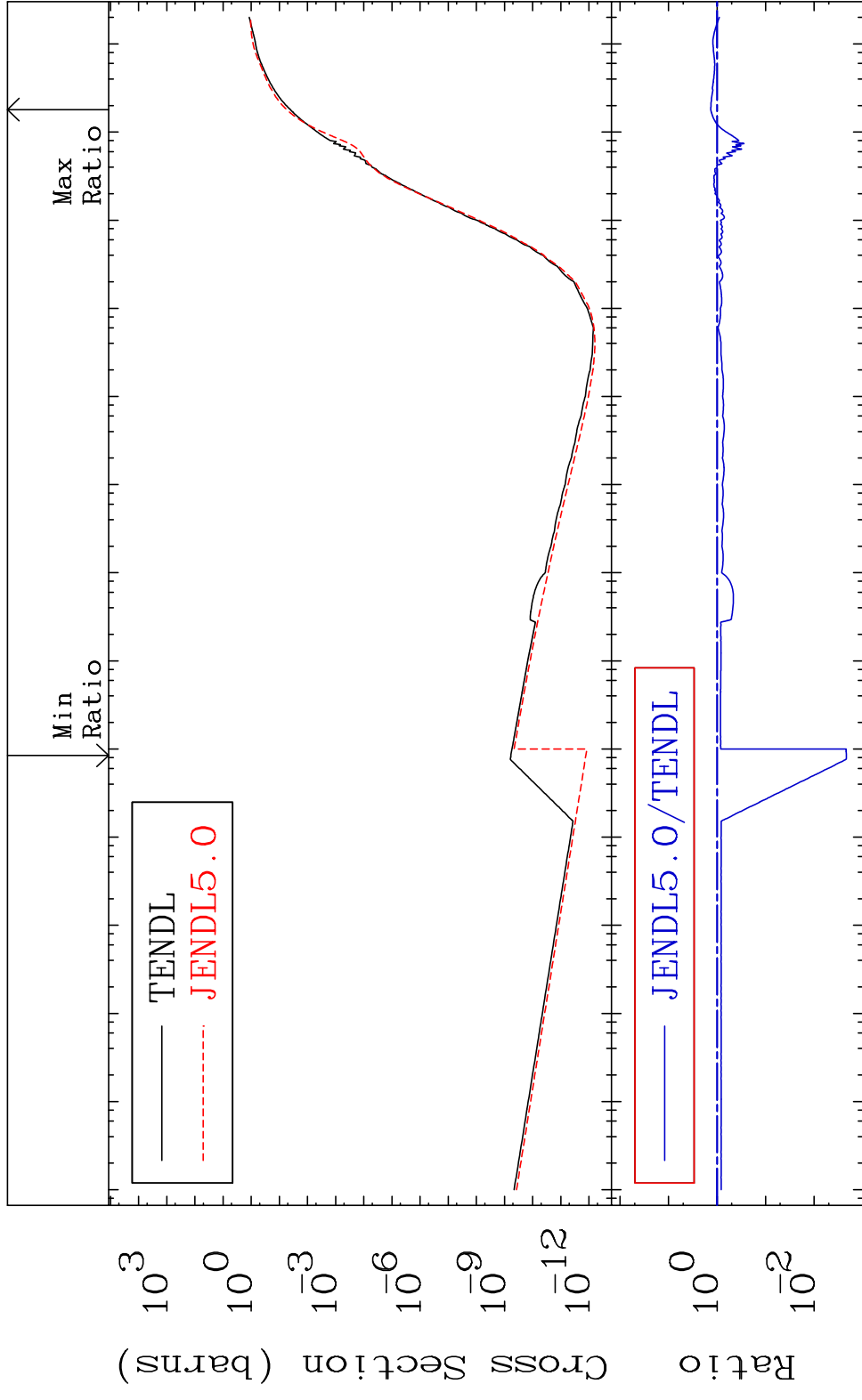
Cross Section -100.0 To 38.62 %



MAT 6422

Hydrogen Production  
Cross Section -99.78 To 35.30 %

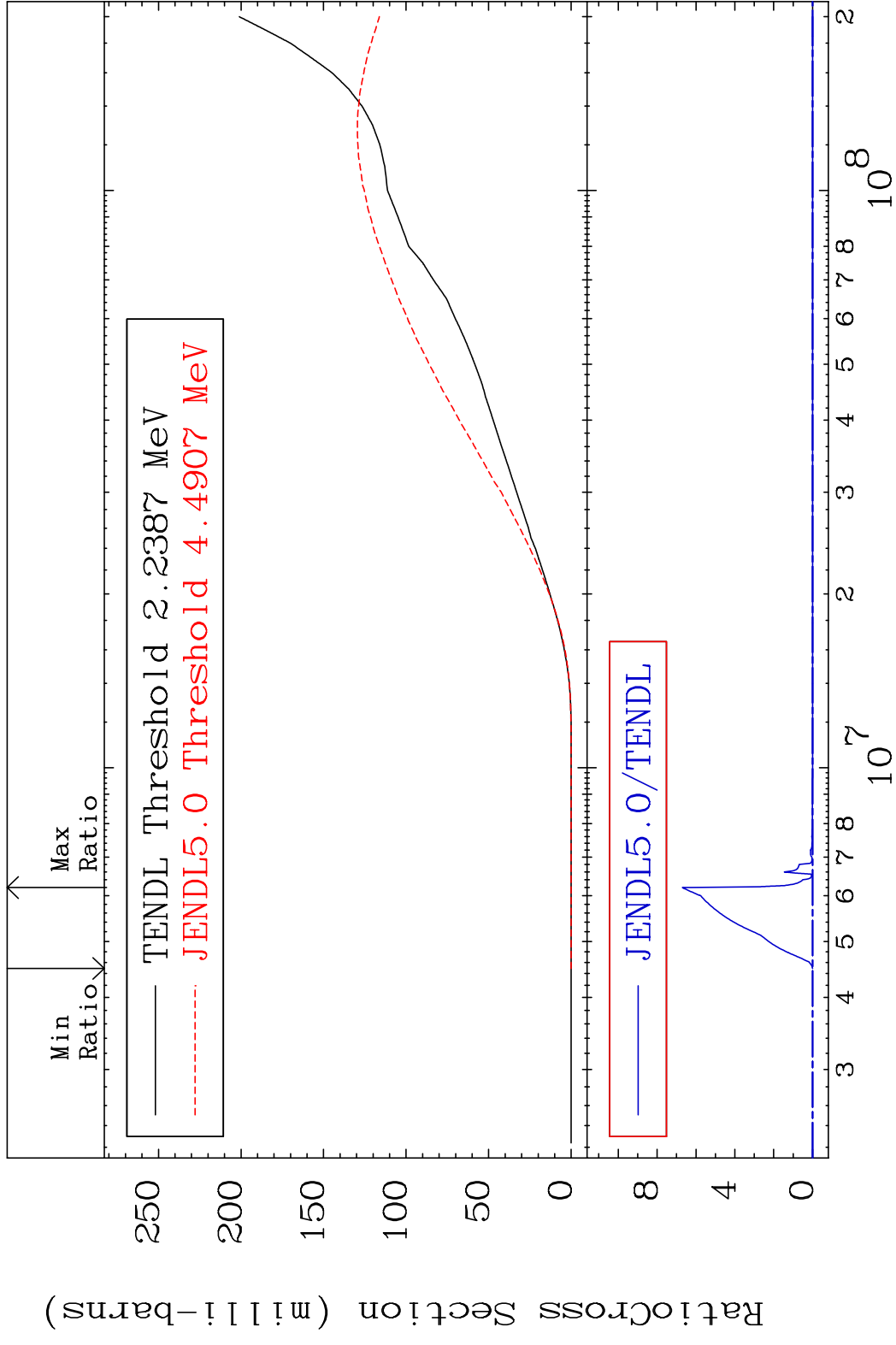
64-Gd-151



MAT 6422

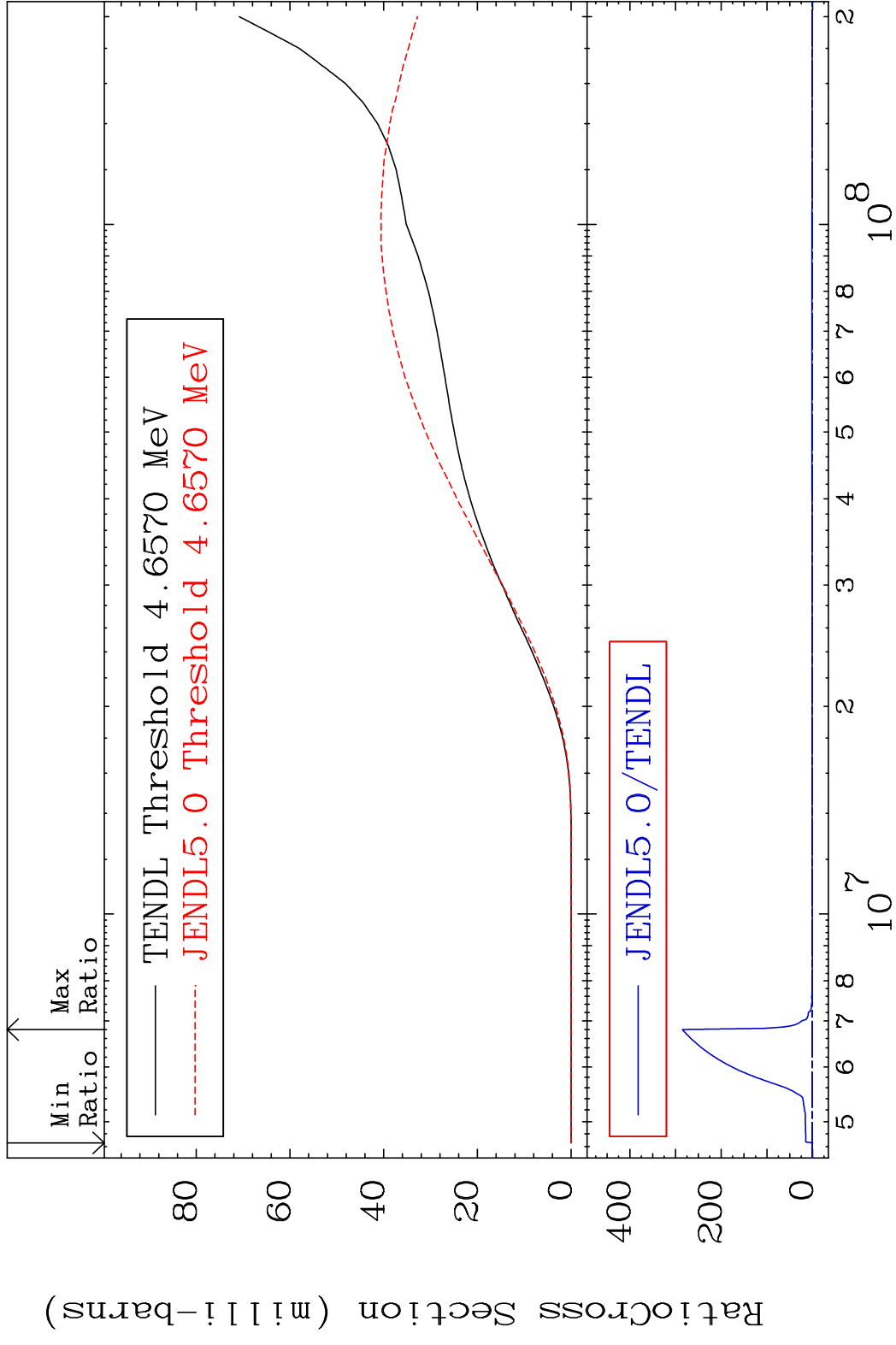
Deuterium Production 64-Gd-151

Cross Section -100.0 To 9999. %



MAT 6422

Tritium Production 64-Gd-151  
Cross Section -100.0 To 9999. %



47

Incident Energy (eV)

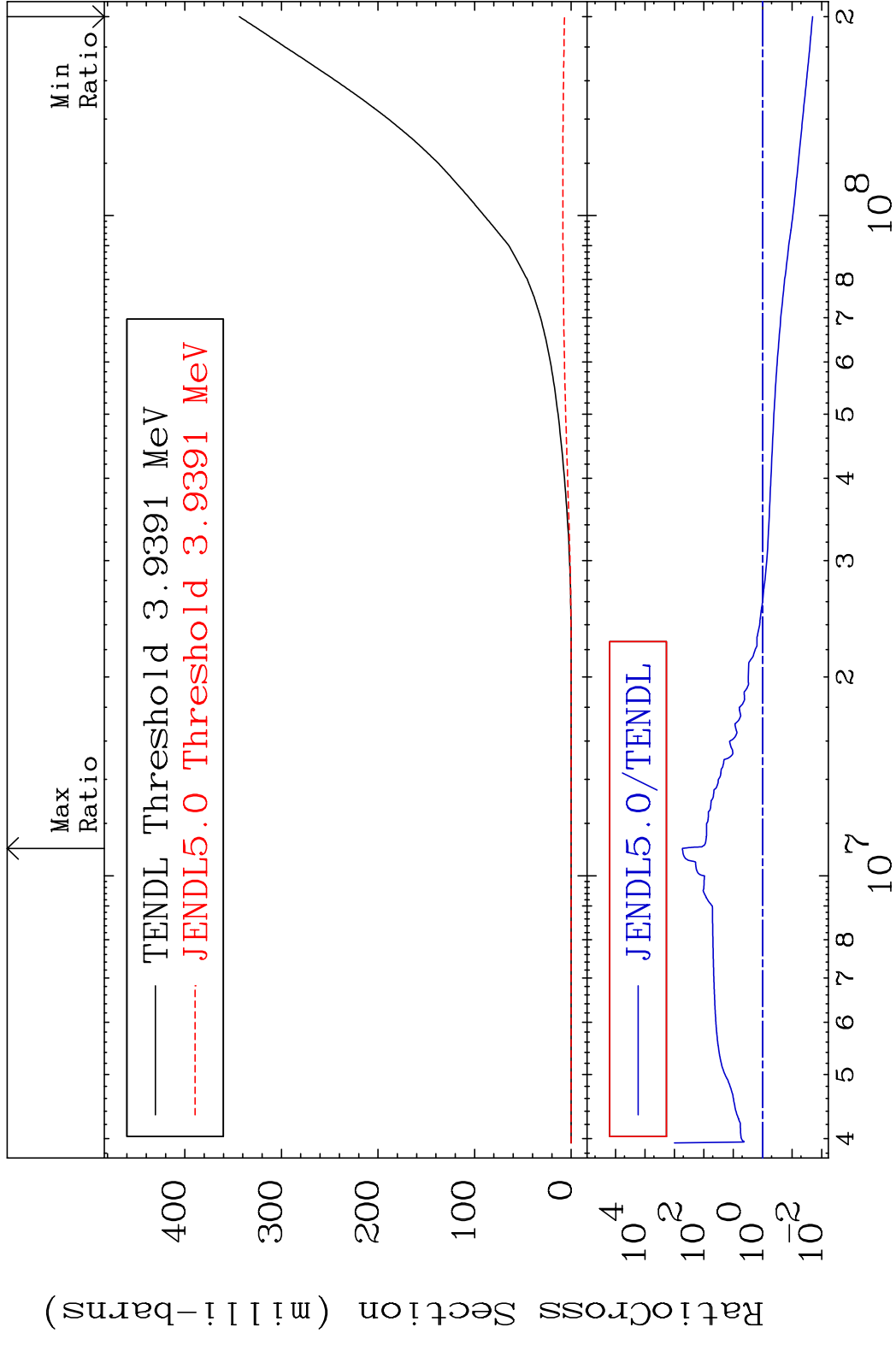
64-Gd-151

MAT 6422

He-3 Production

64-Gd-151

Cross Section -97.97 To 9999. %

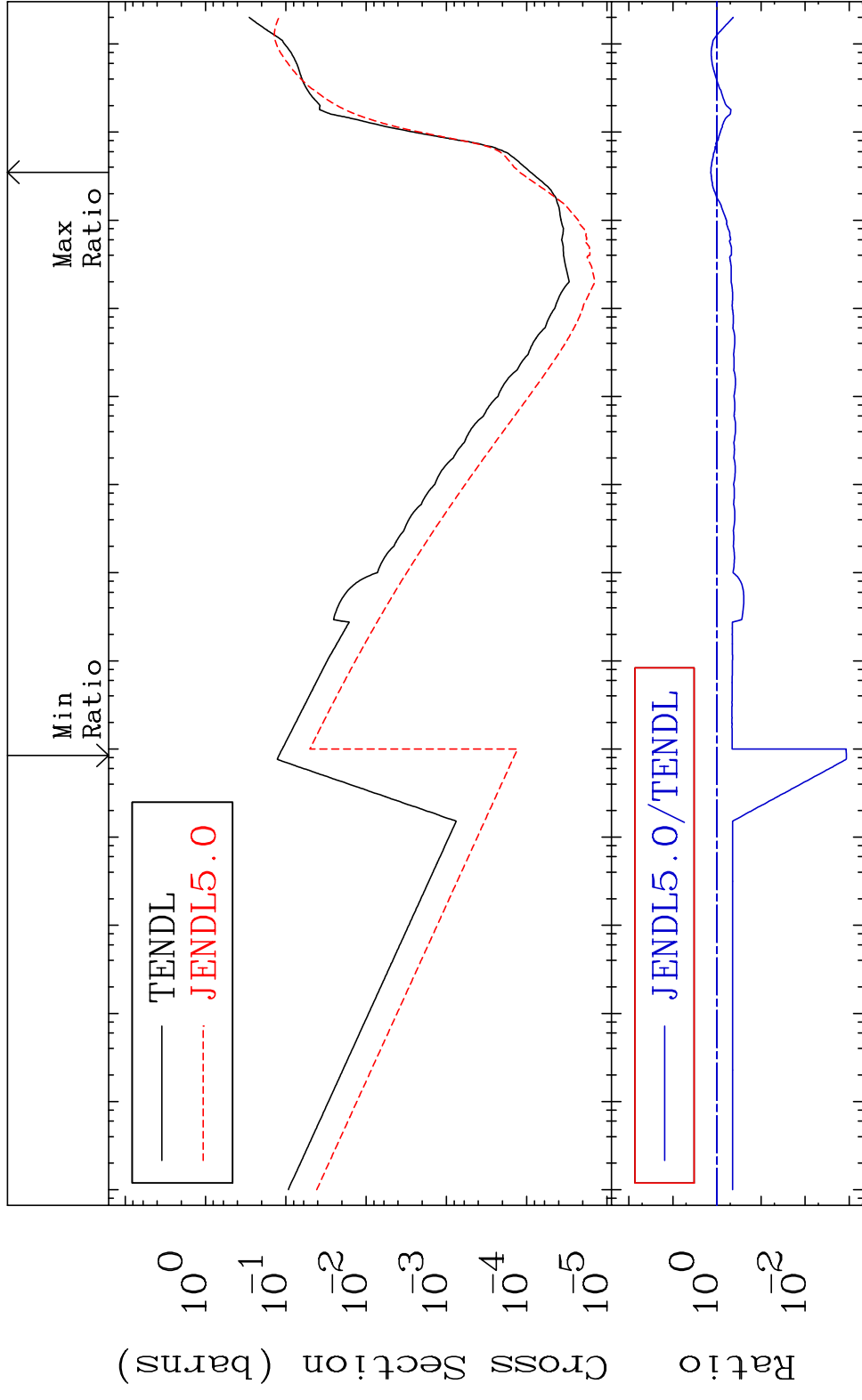


MAT 6422

He-4 Production

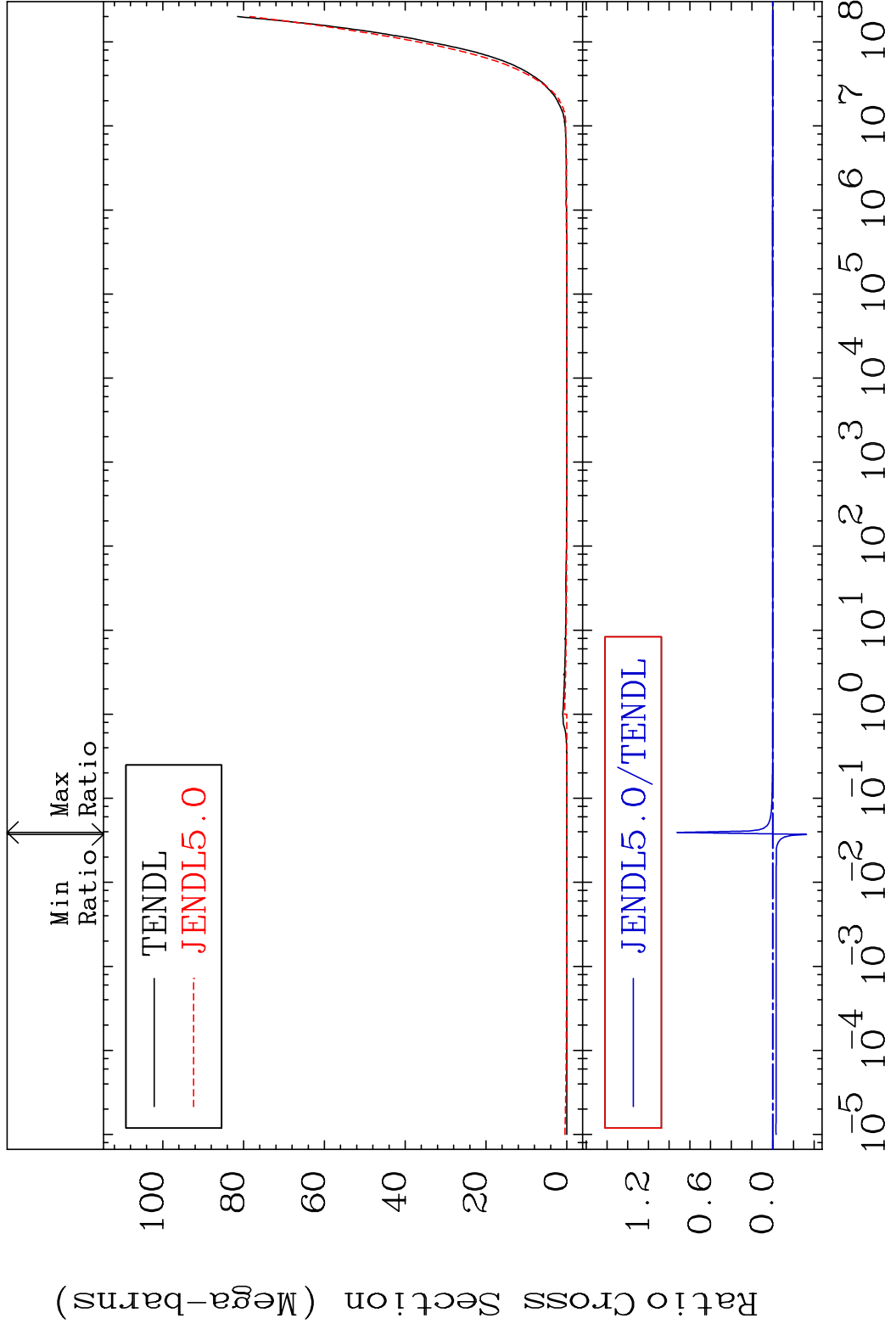
64-Gd-151

Cross Section -99.88 To 38.62 %



MAT 6422

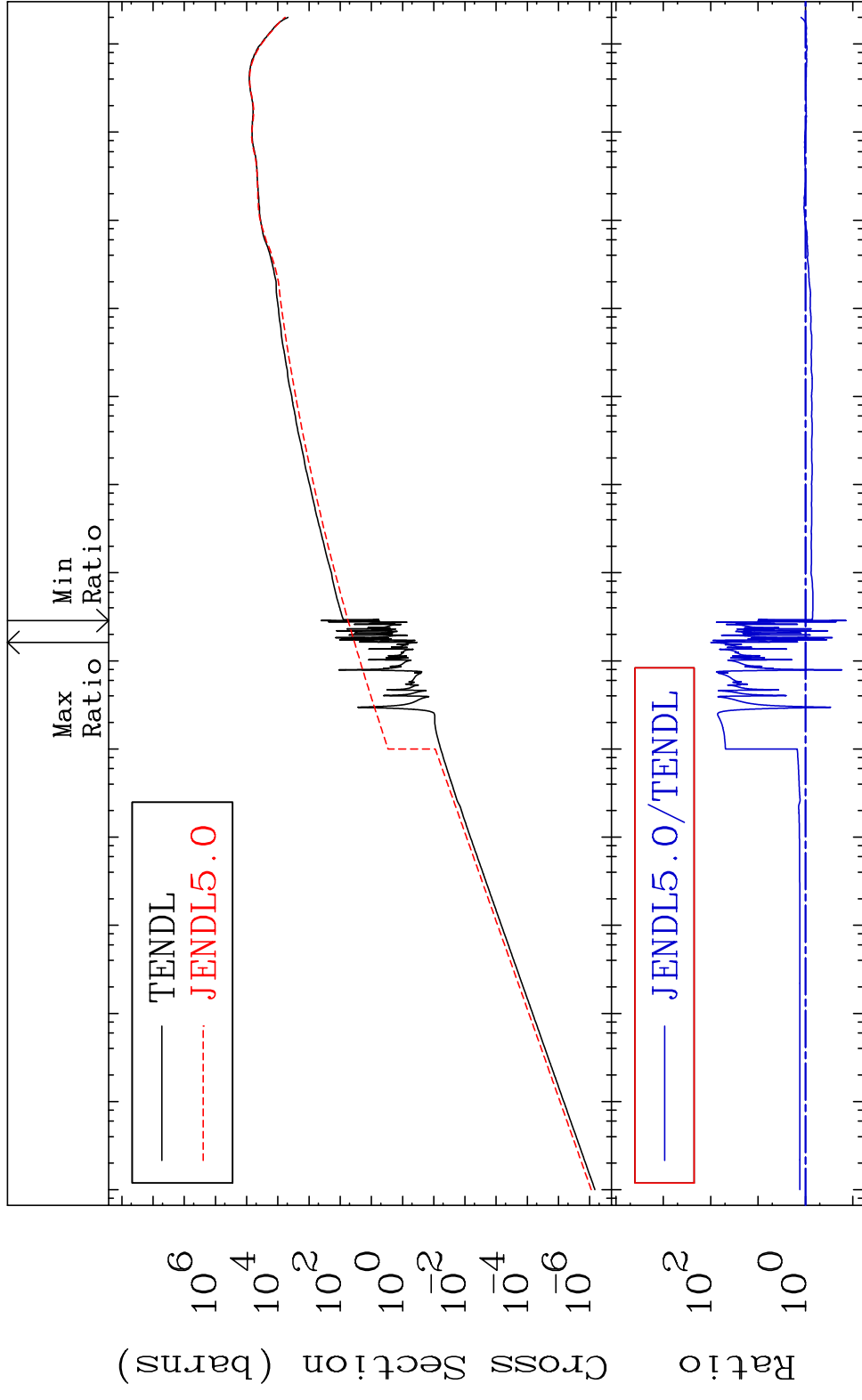
Kerma total (eV-barns) 64-Gd-151  
Cross Section -9999. To 9999. %



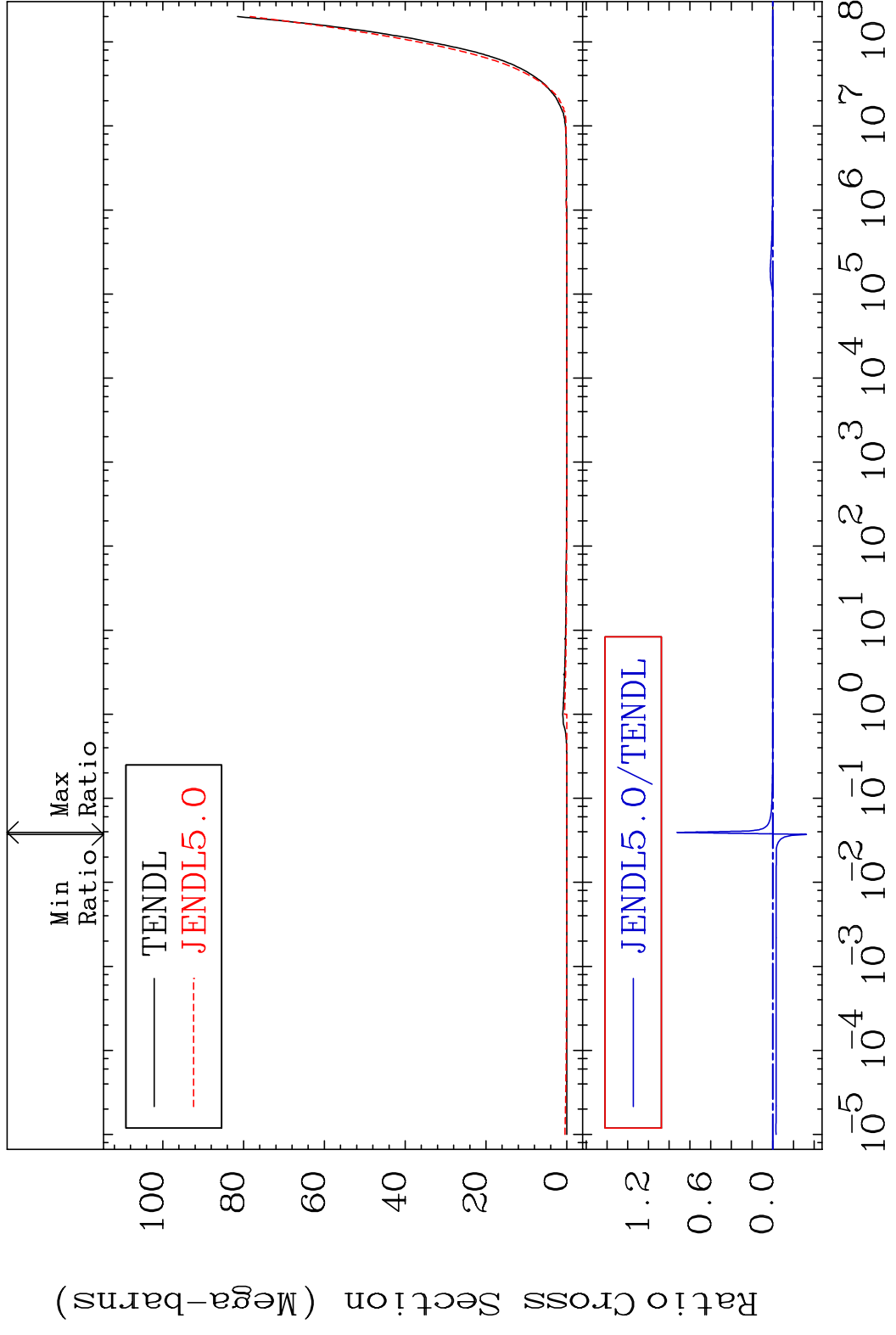
MAT 6422

Kerma elastic  
Cross Section -86.28 To 9888. %

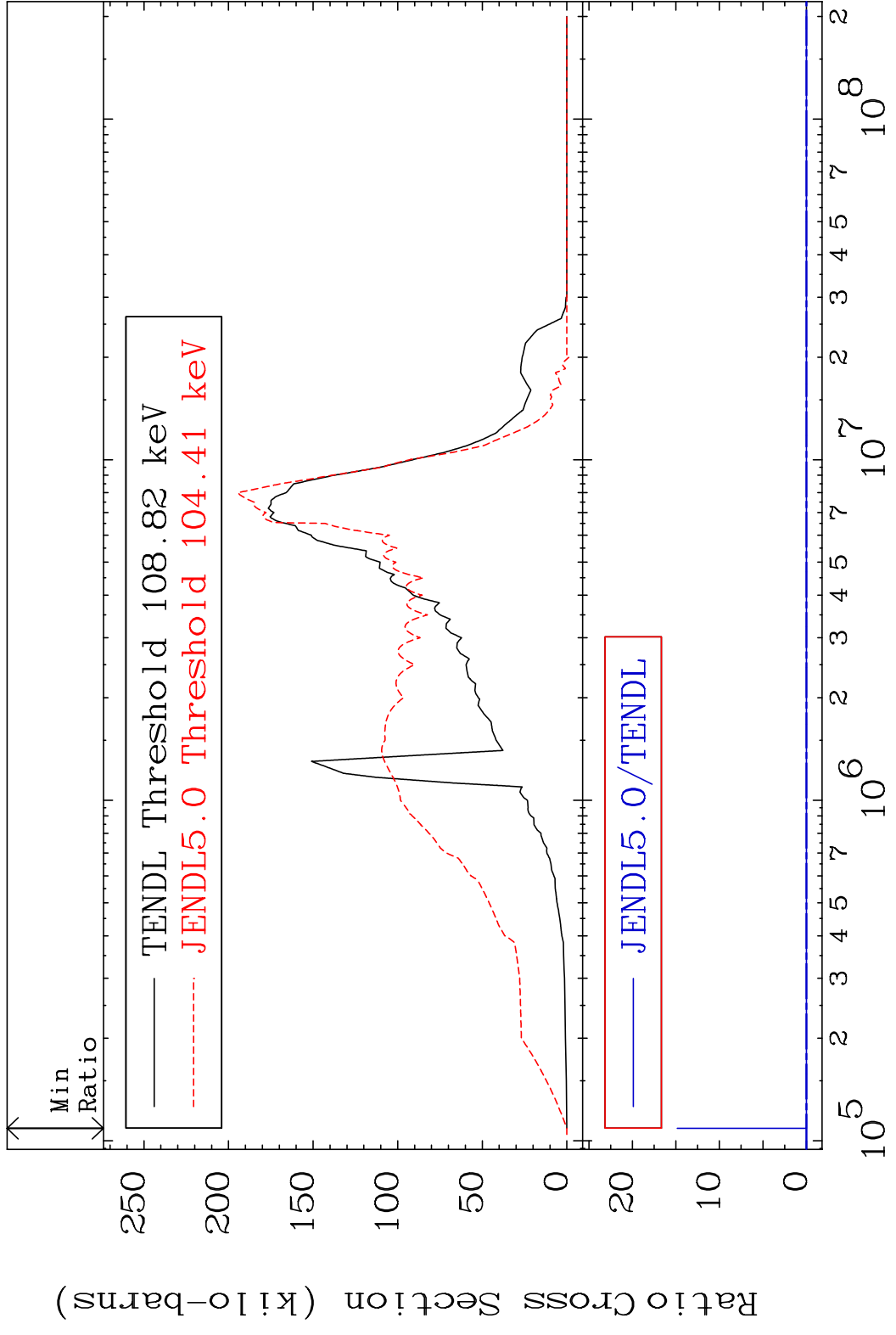
64-Gd-151



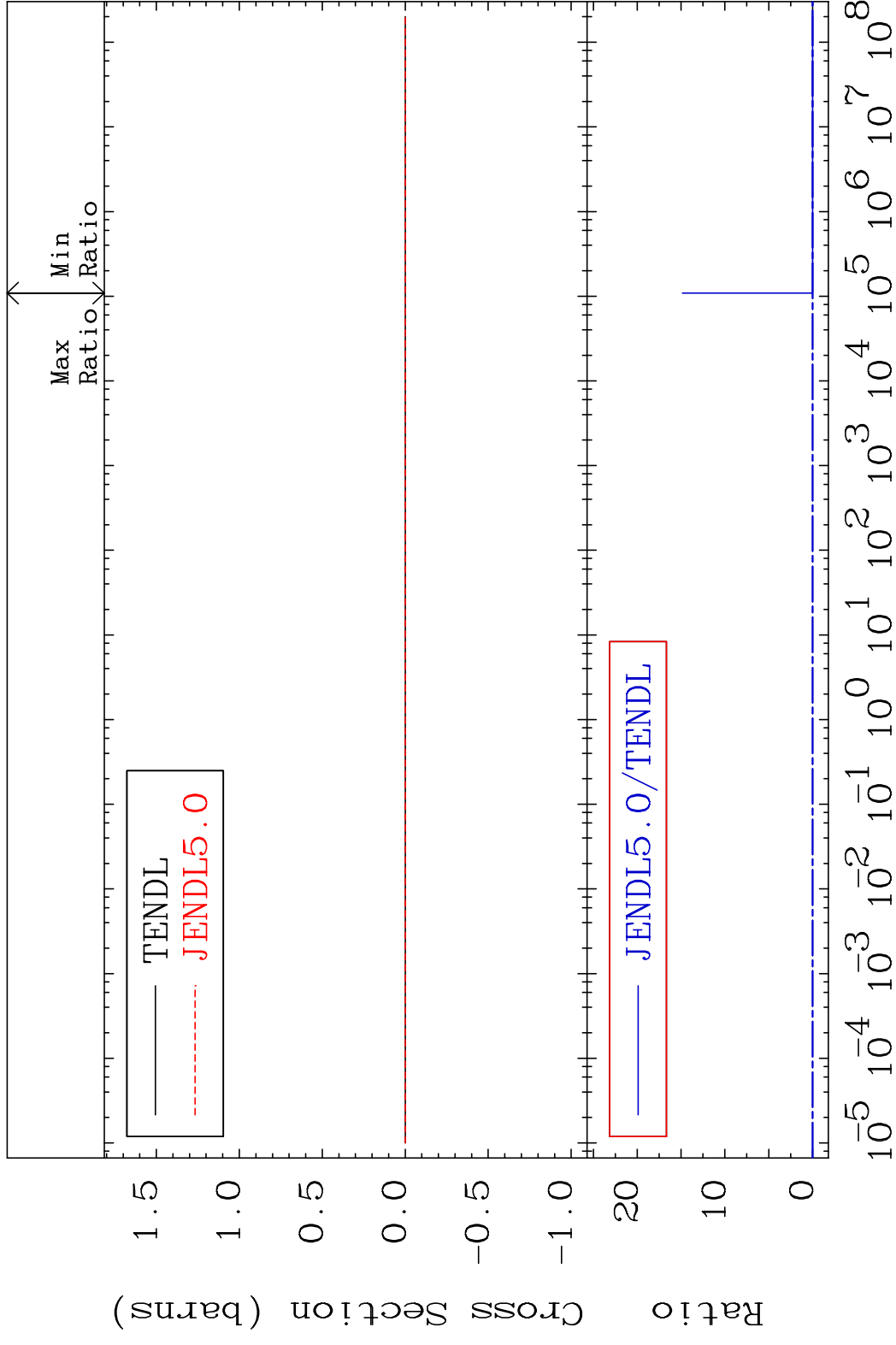
MAT 6422 Kerma non-elastic (all but mt2) 64-Gd-151  
 Cross Section -9999. To 9999. %



MAT 6422 Kerma inelastic (mt51-91) 64-Gd-151  
 Cross Section -7018. To 9999. %

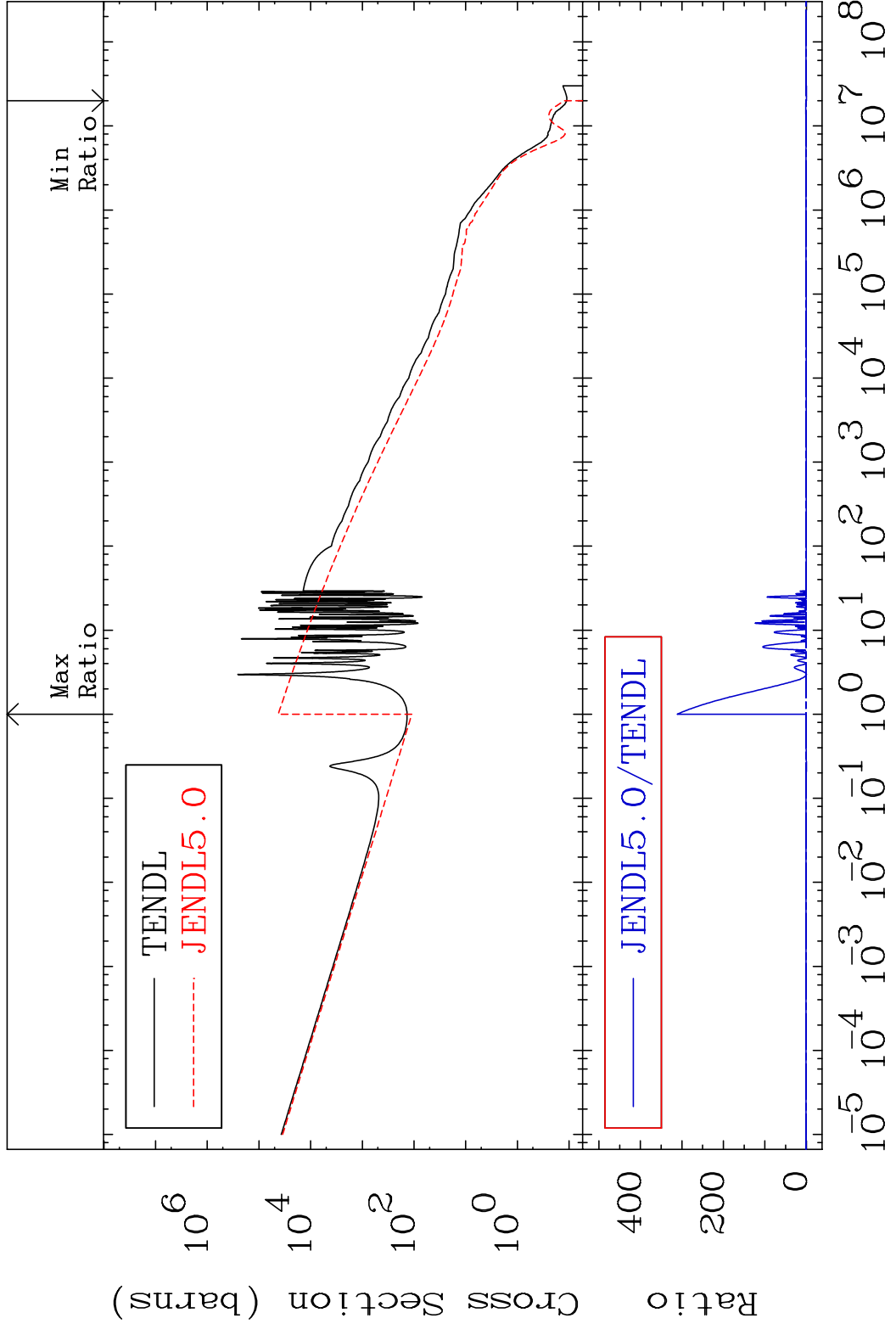


MAT 6422 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-151  
 Cross Section -7018. To 9999. %

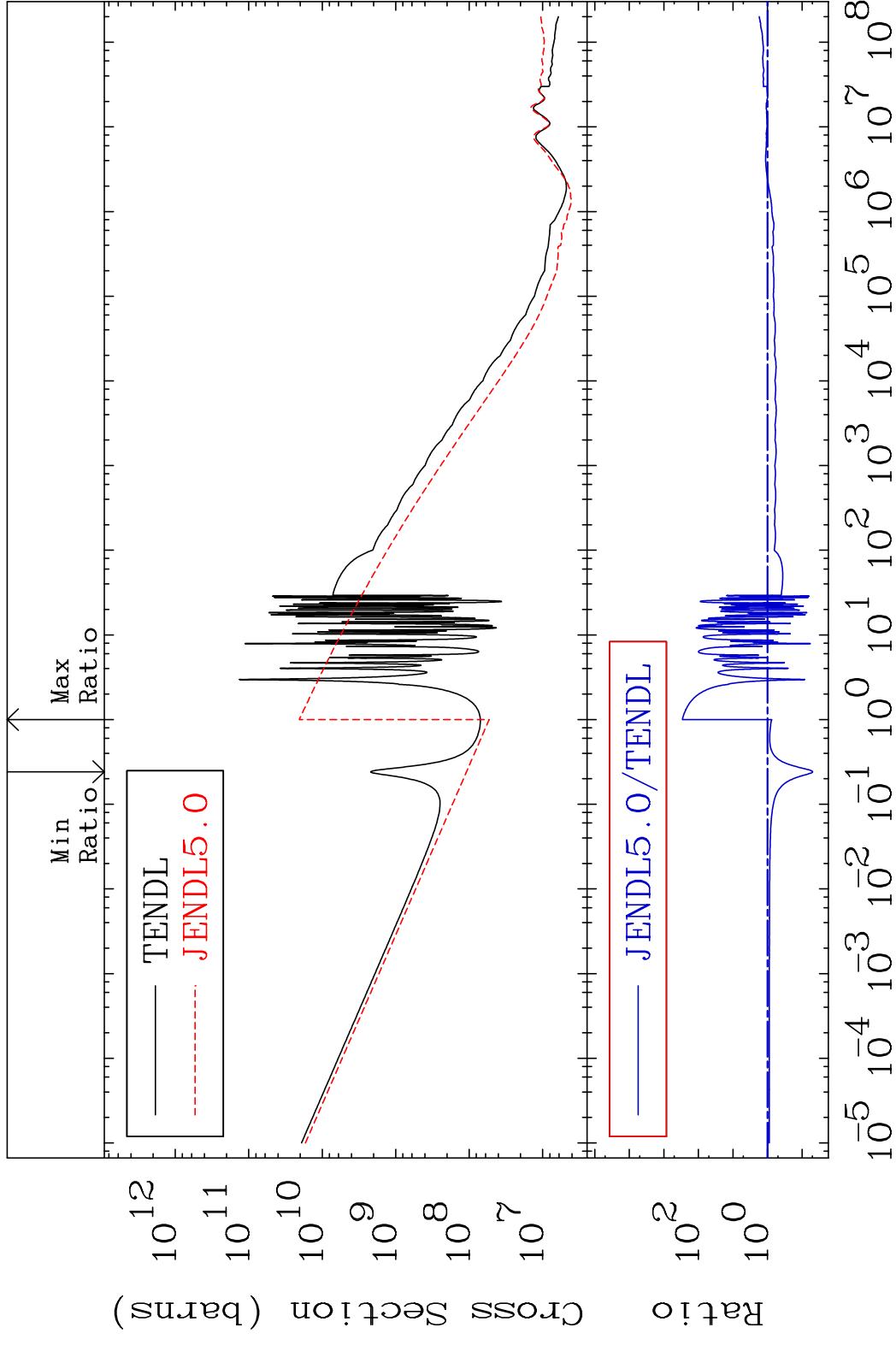


MAT 6422

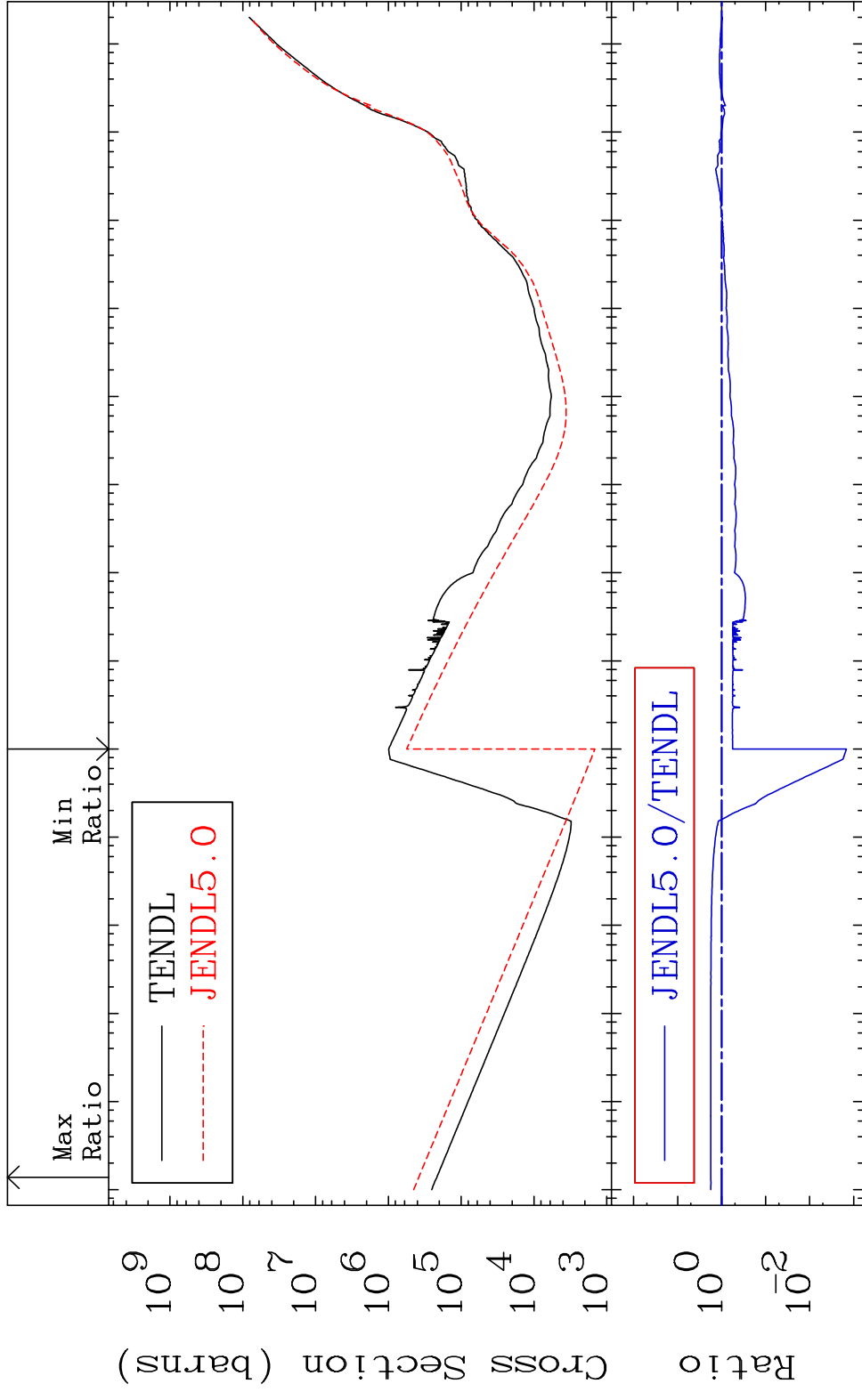
Kerma capture (mt102) 64-Gd-151  
Cross Section -100.0 To 9999. %



MAT 6422 Total photon (eV-barns) 64-Gd-151  
 Cross Section -95.04 To 9999. %



MAT 6422 Total kinematic kerma (high limit) 64-Gd-151  
 Cross Section -99.85 To 77.15 %

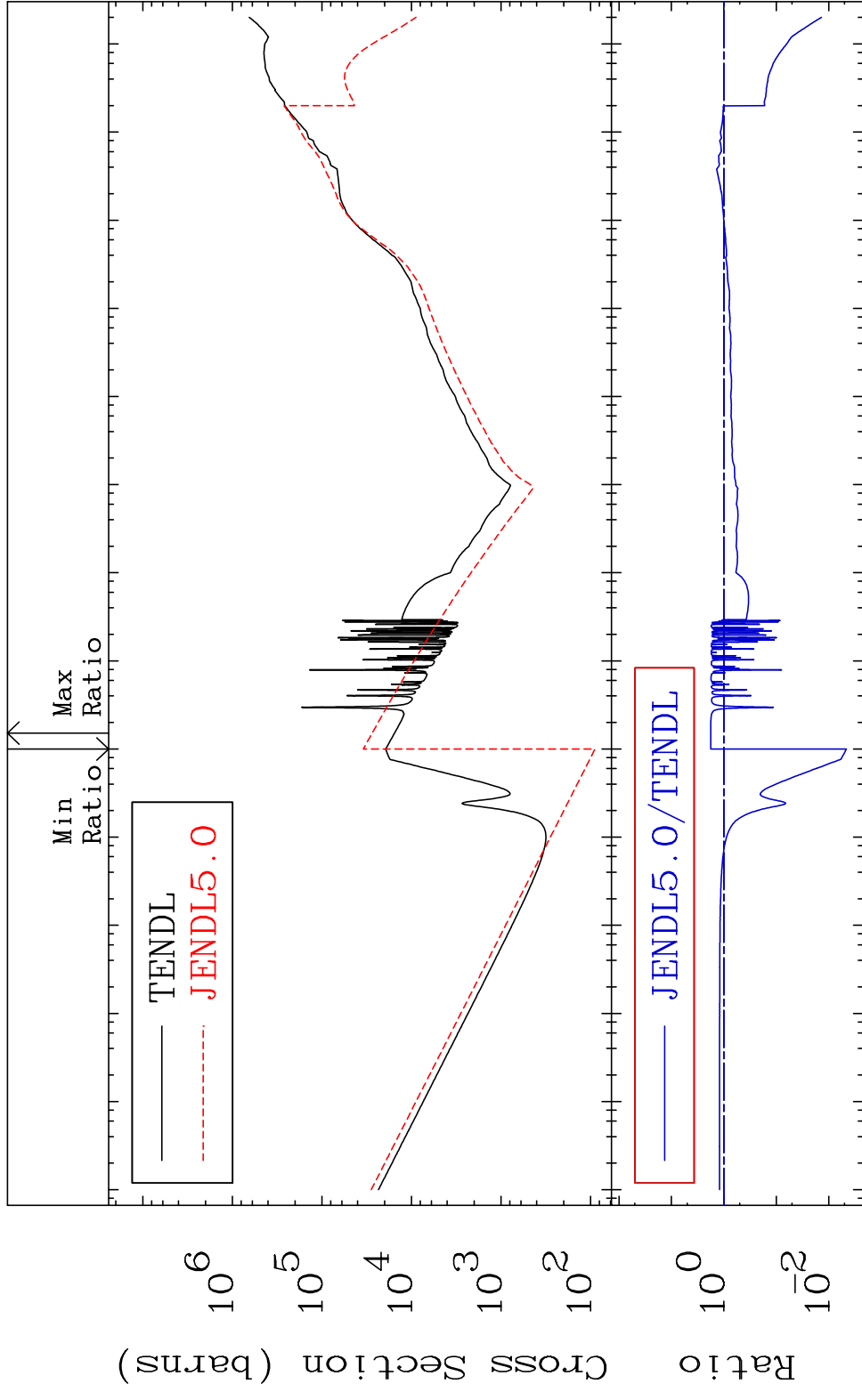


MAT 6422

Dpa total (eV-barns)

64-Gd-151

Cross Section -99.54 To 77.95 %

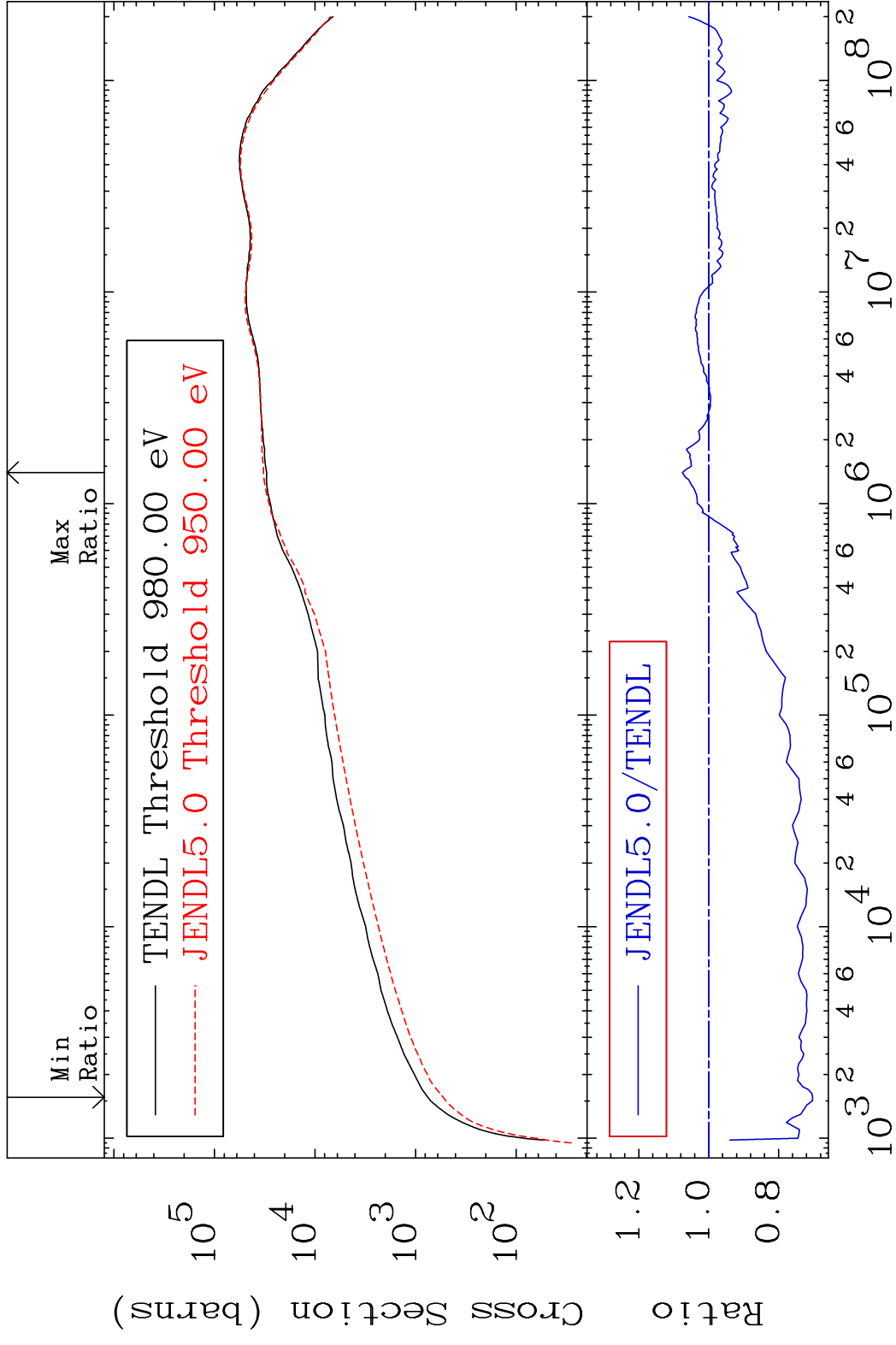


MAT 6422

Dpa elastic (mt2)

64-Gd-151

Cross Section -29.73 To 7.524 %

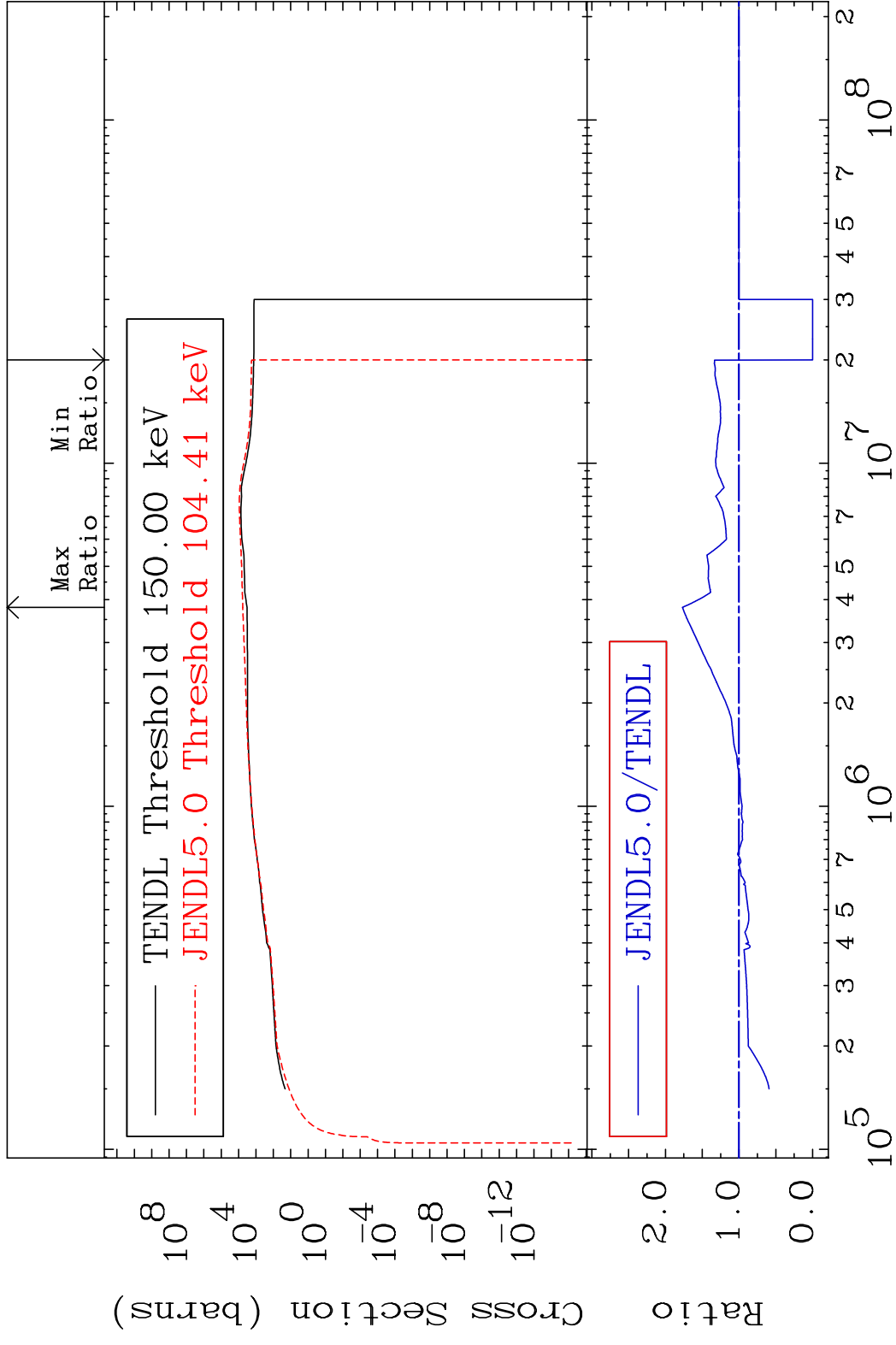


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Incident Energy (eV)

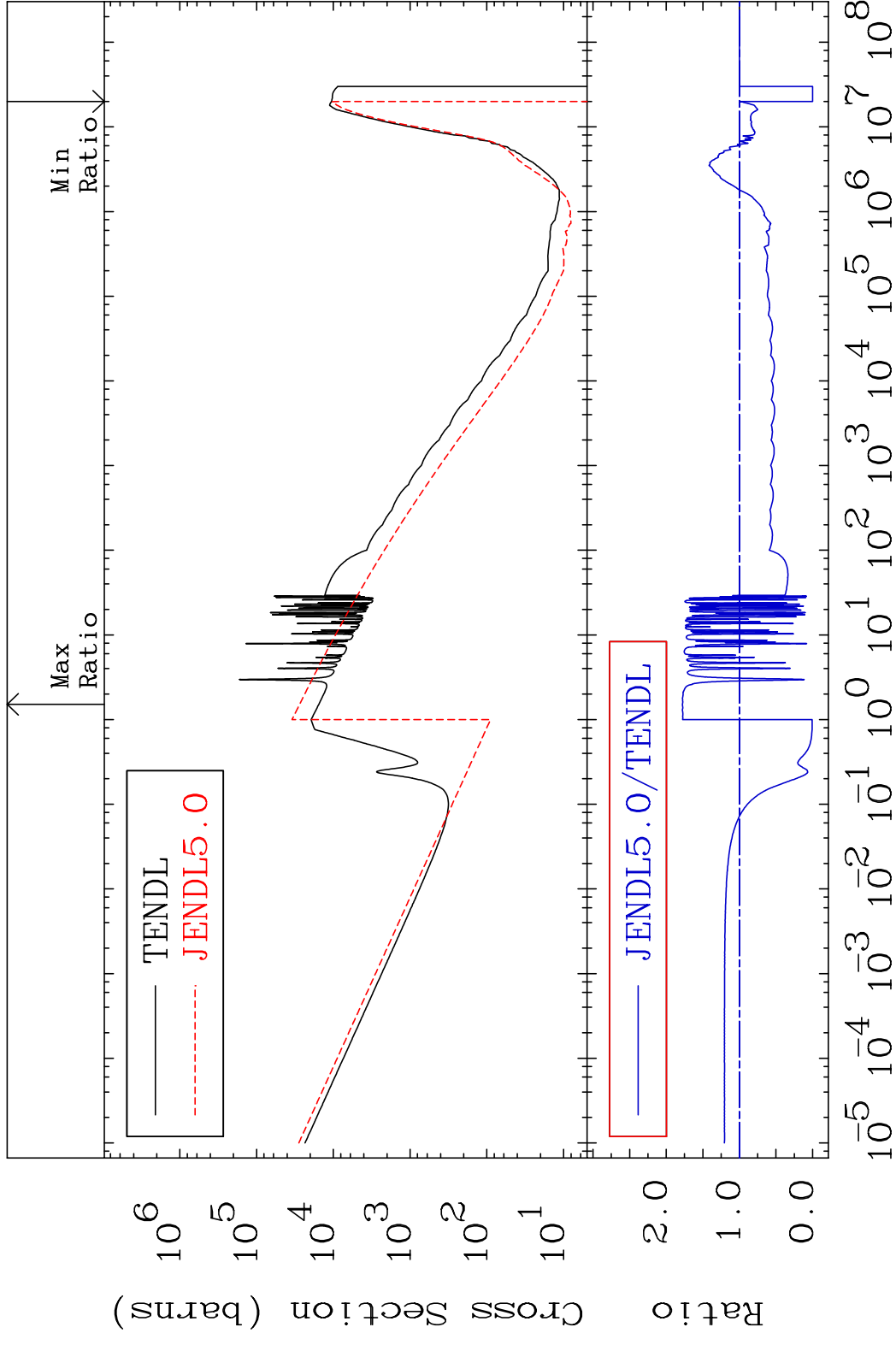
64-Gd-151

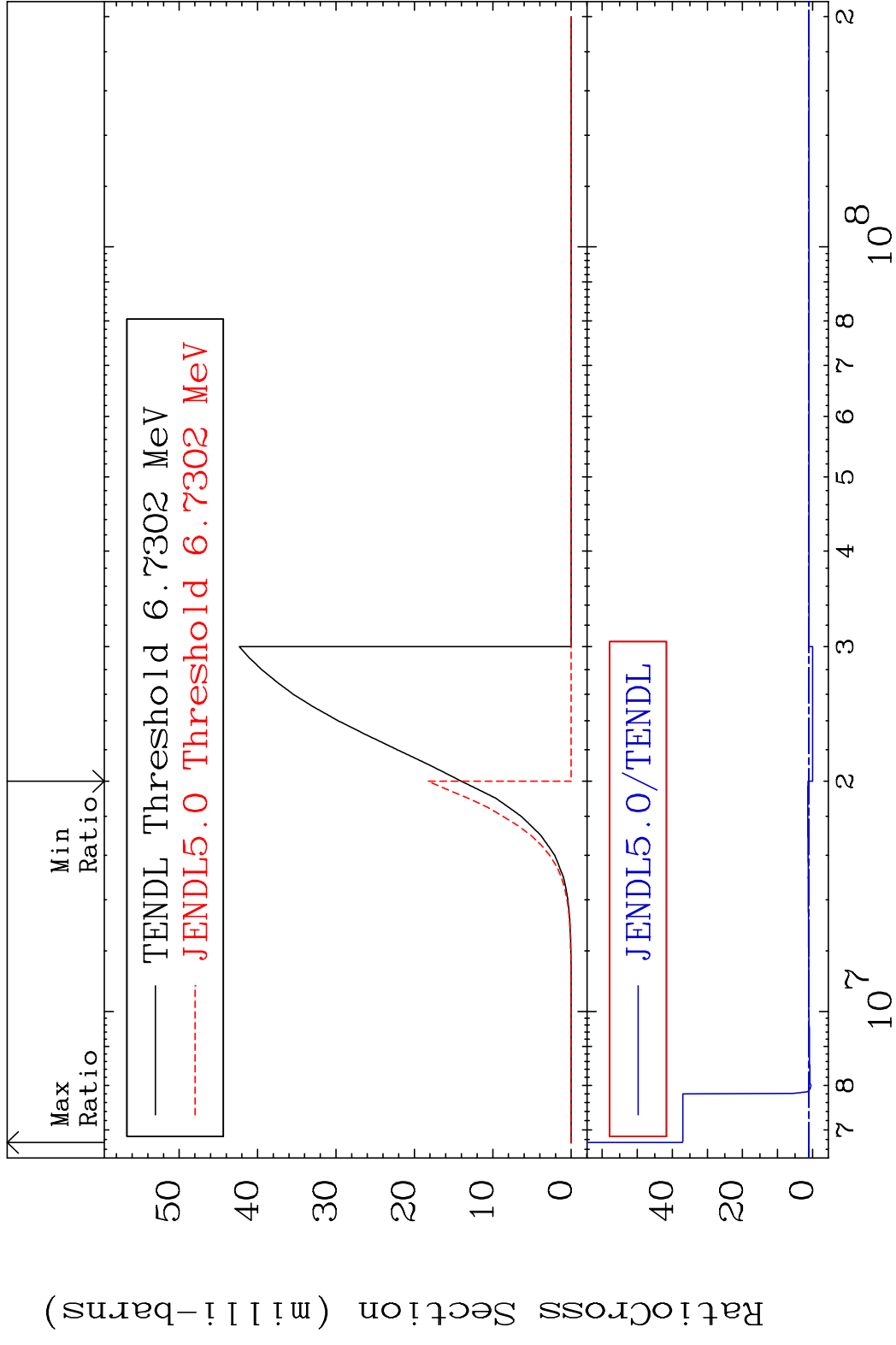
MAT 6422 Dpa inelastic (mt51-91) 64-Gd-151  
 Cross Section -100.0 To 77.03 %

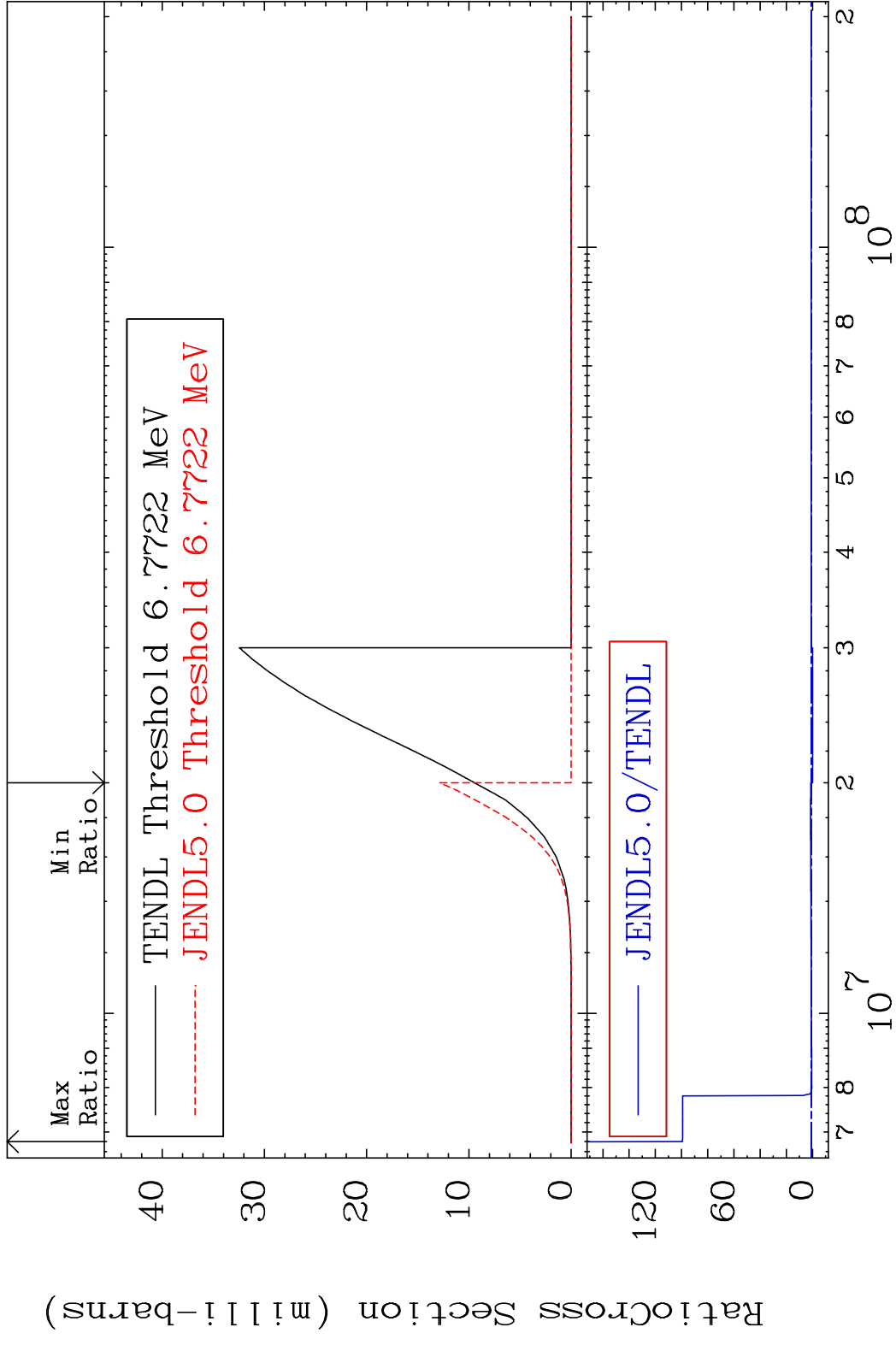


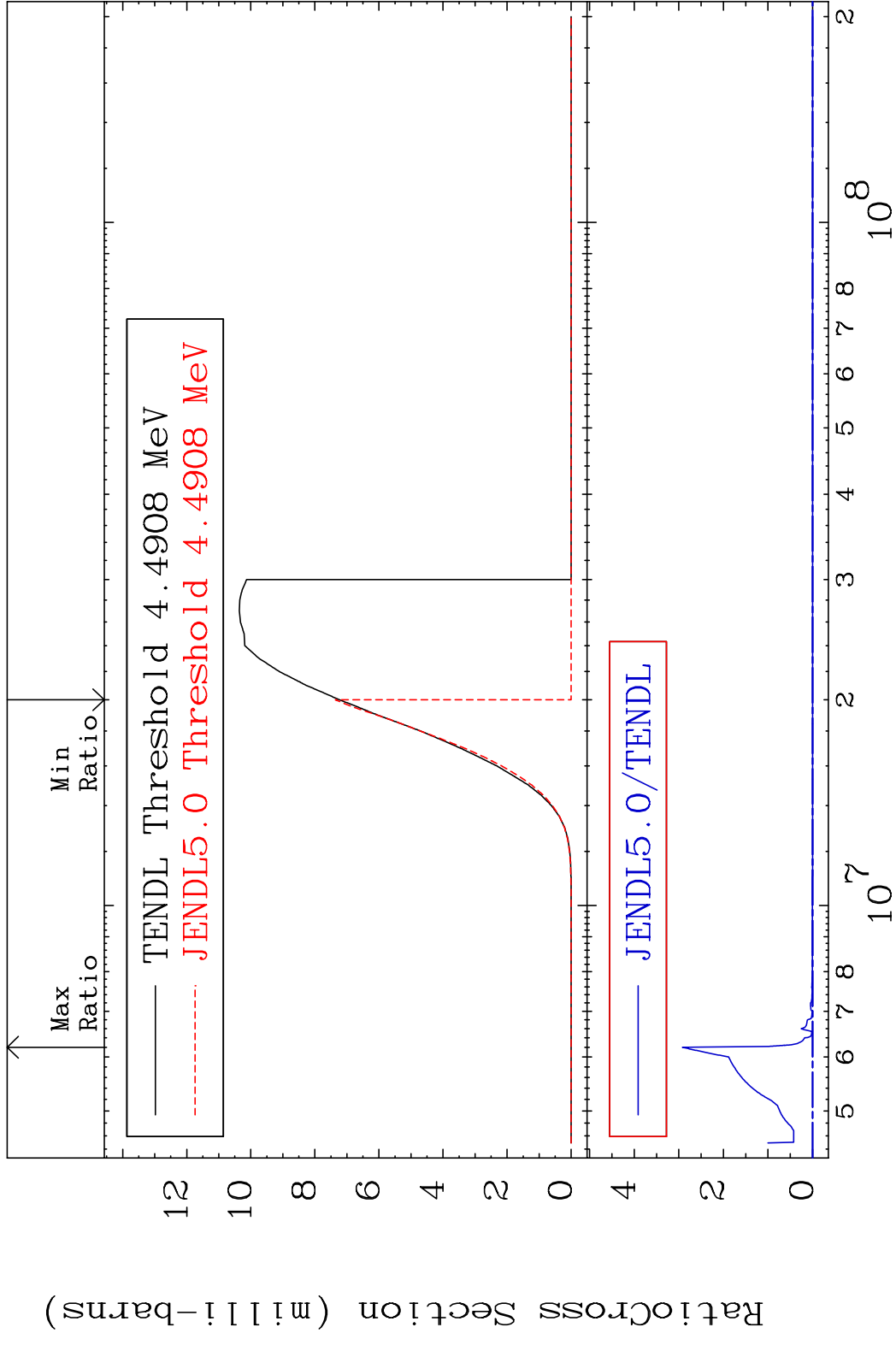
60 Incident Energy (eV) 64-Gd-151

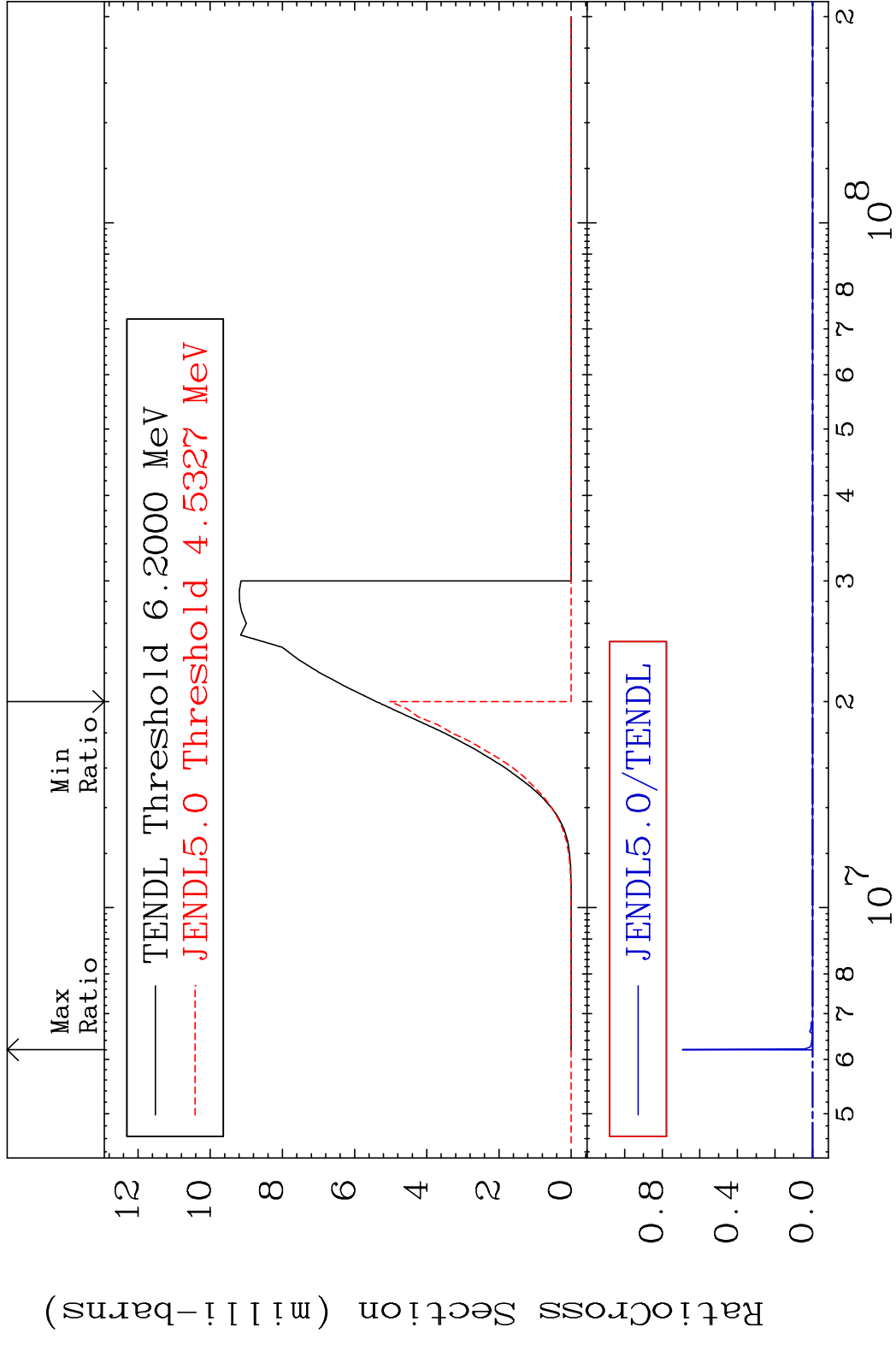
MAT 6422 Dpa disappearance (mt102 -120) 64-Gd-151  
 Cross Section -100.0 To 77.95 %









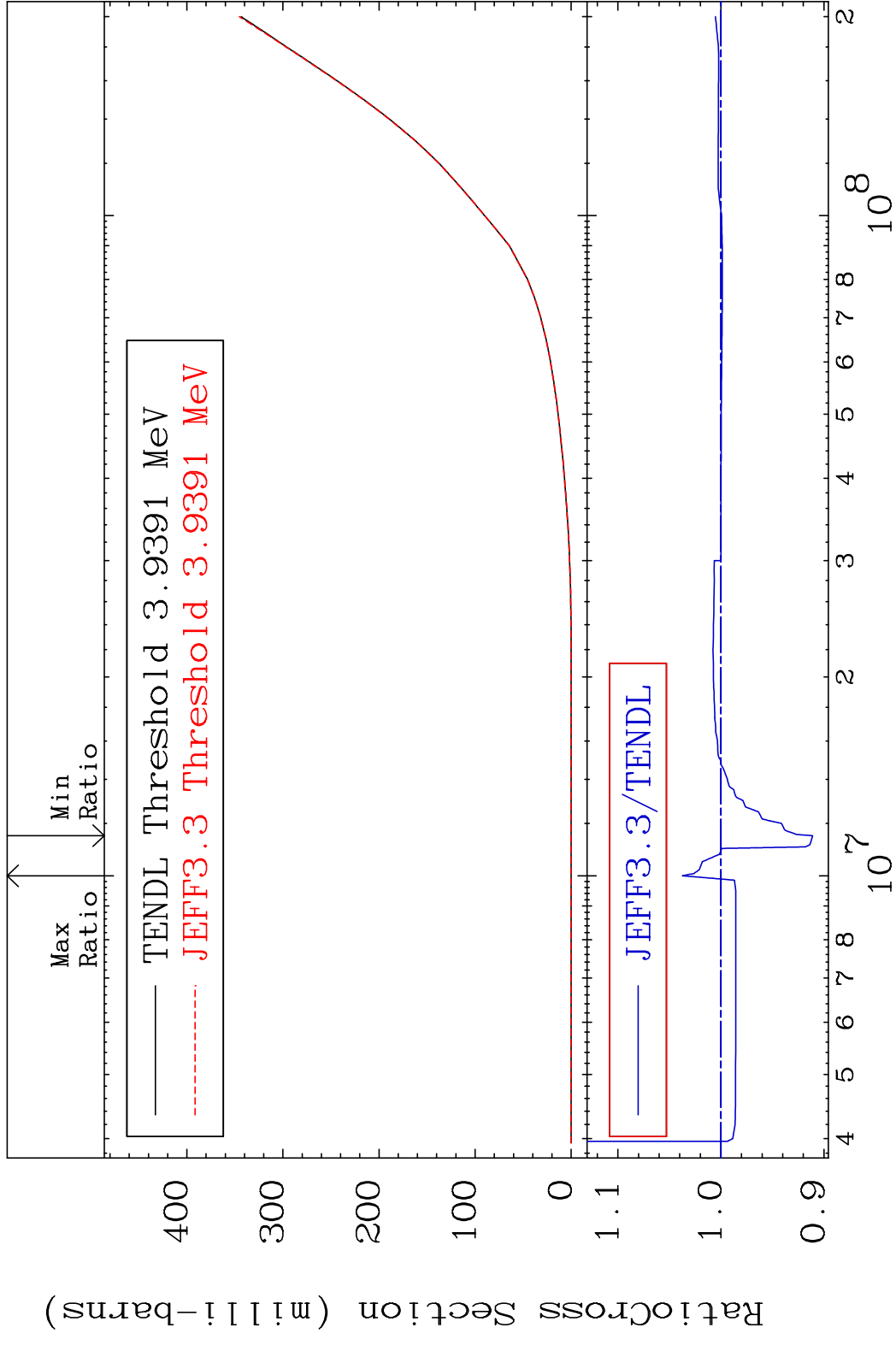


MAT 6422

He-3 Production

64-Gd-151

Cross Section -8.896 To 3.746 %

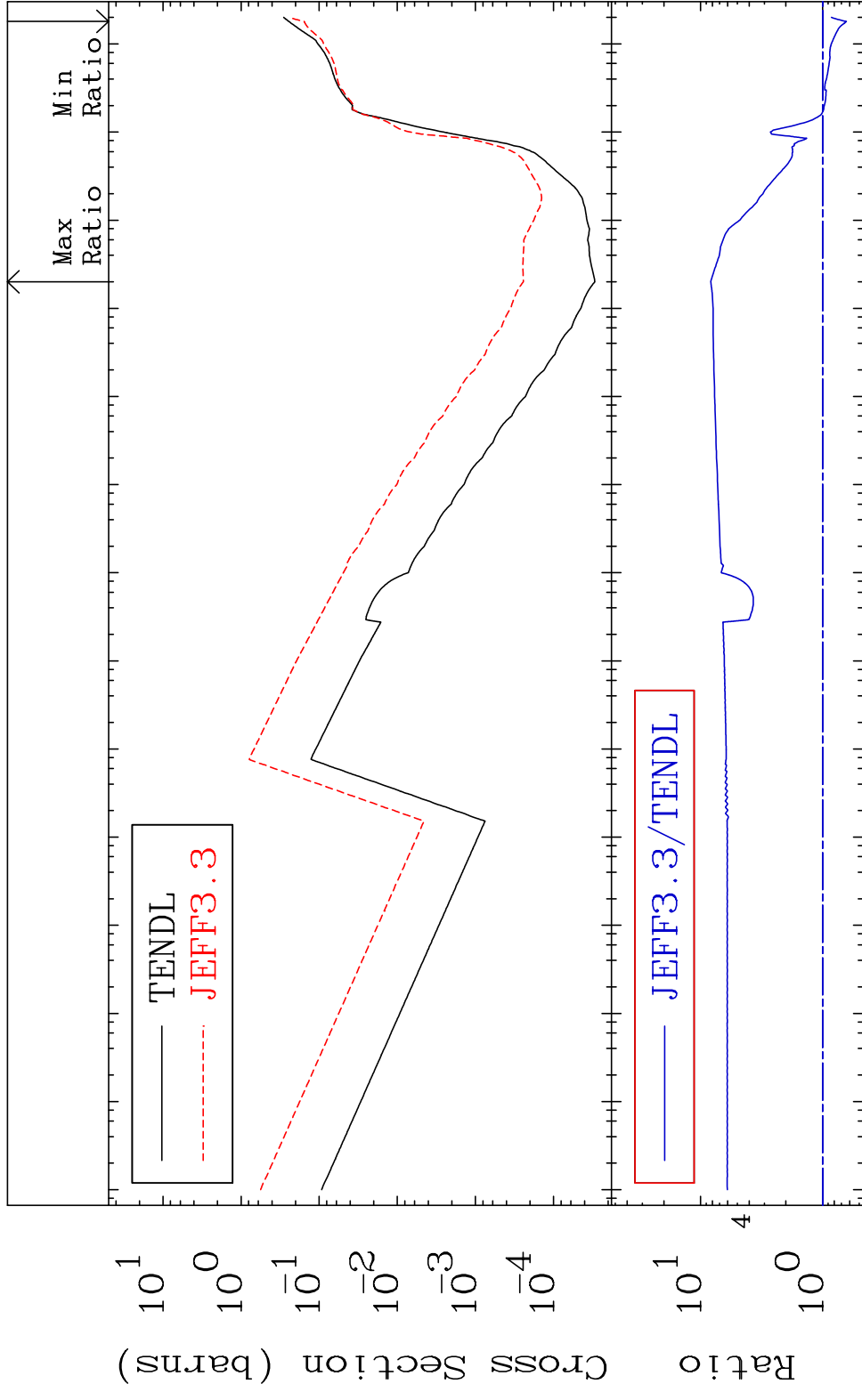


MAT 6422

He-4 Production

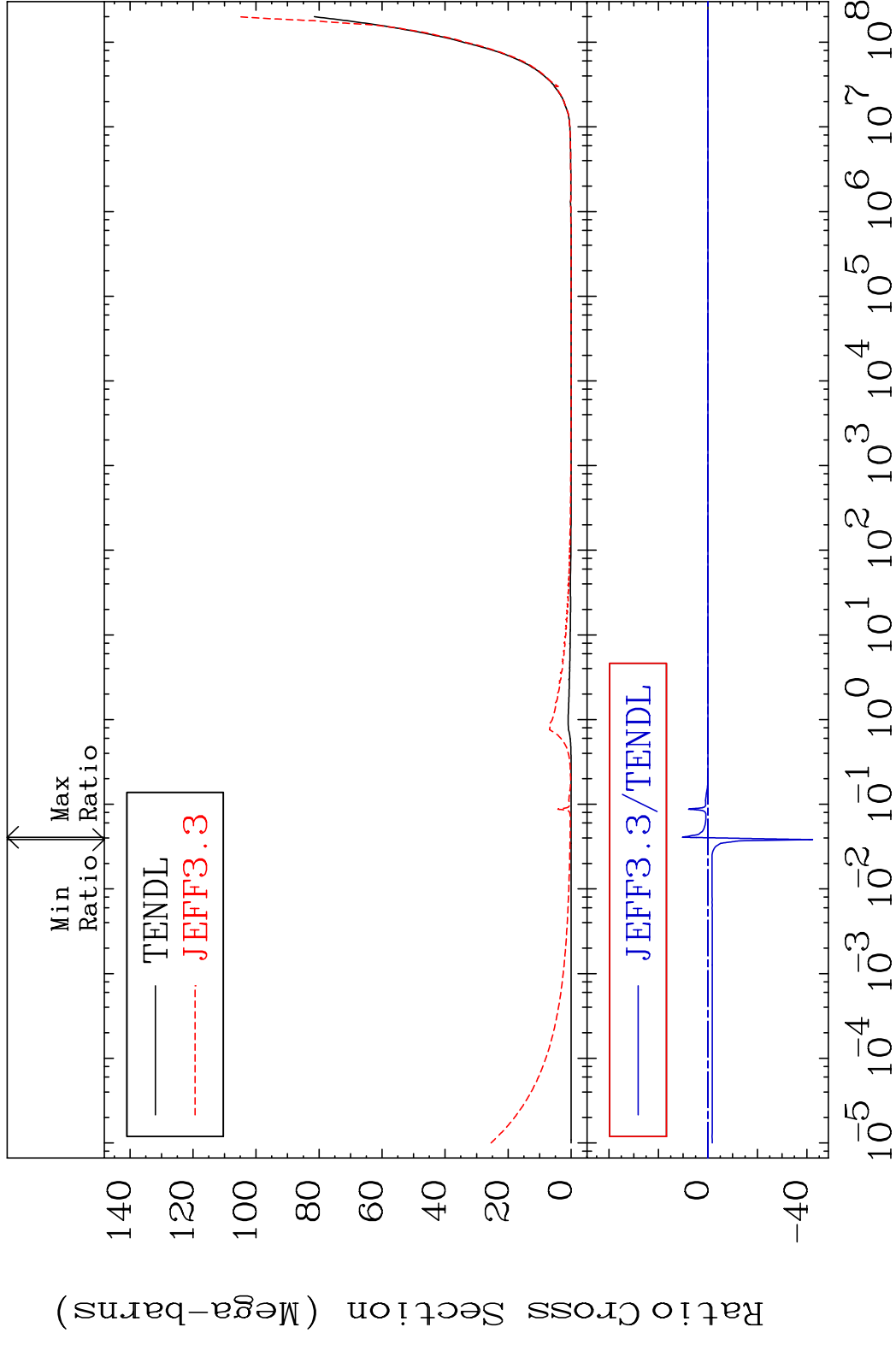
64-Gd-151

Cross Section -36.16 To 726.0 %



MAT 6422

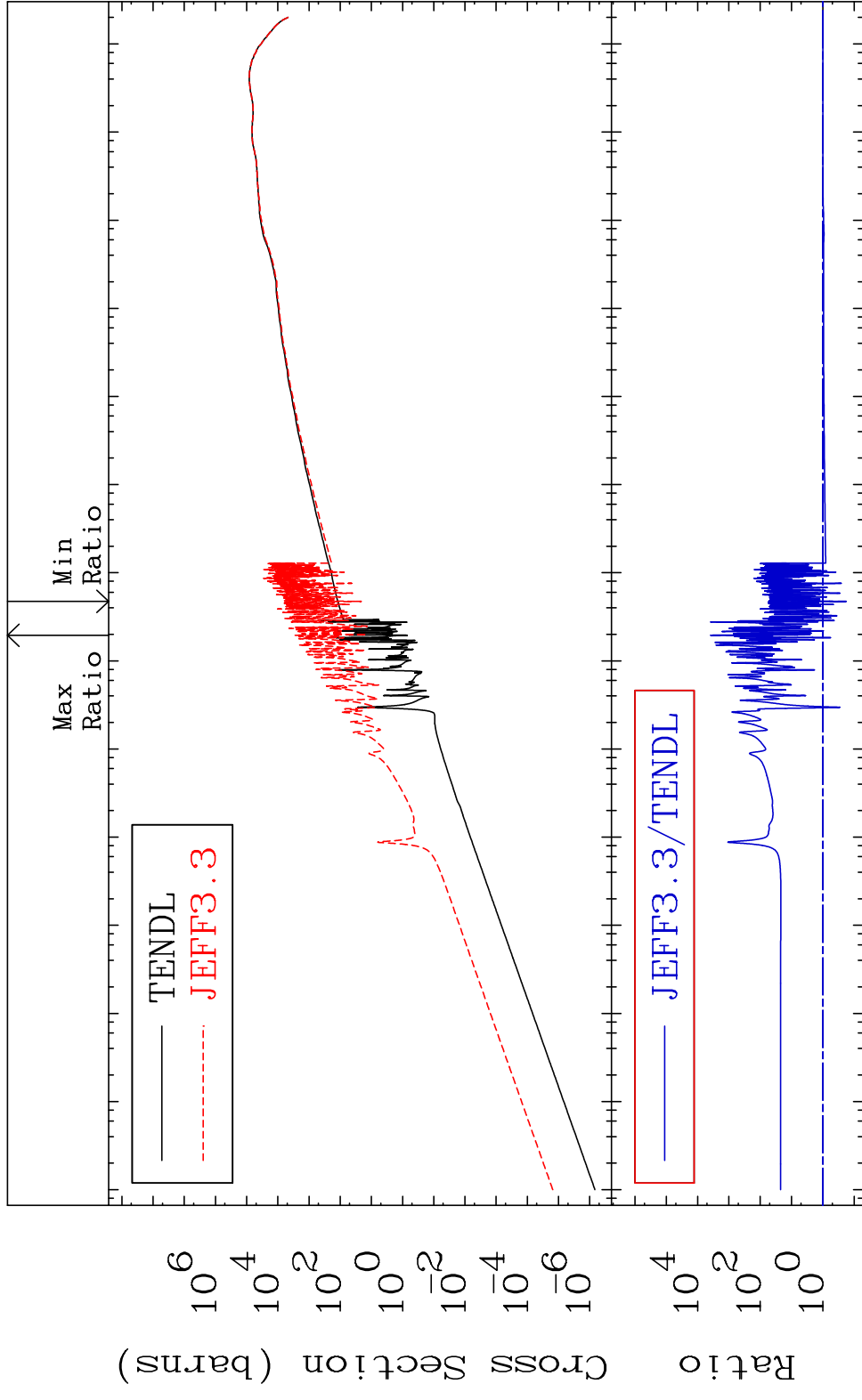
Kerma total (eV-barns) 64-Gd-151  
Cross Section -9999. To 9999. %



MAT 6422

Kerma elastic Cross Section -82.24 To 9999. %

64-Gd-151



Cross Section (barns)

Ratio

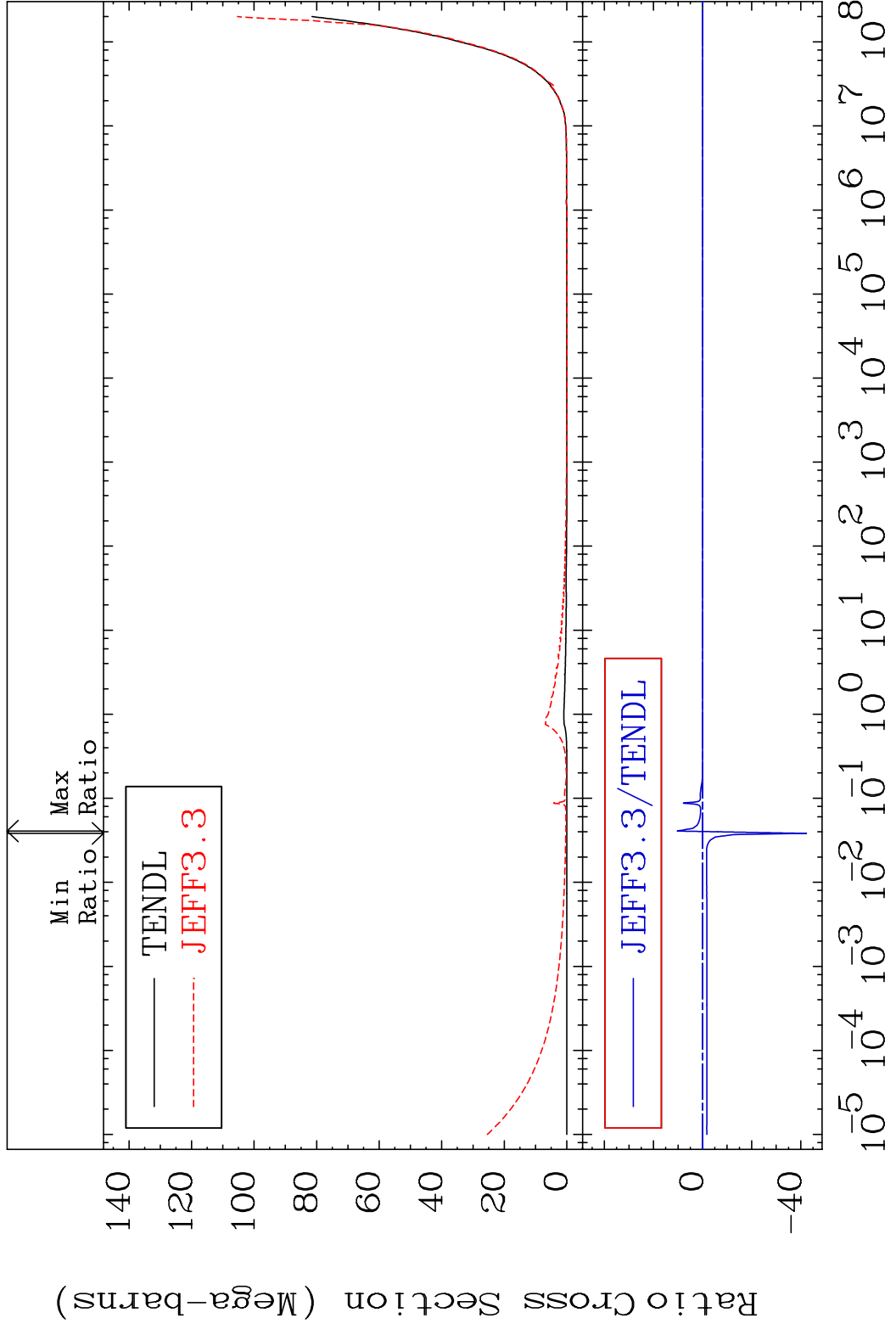
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

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Incident Energy (eV)

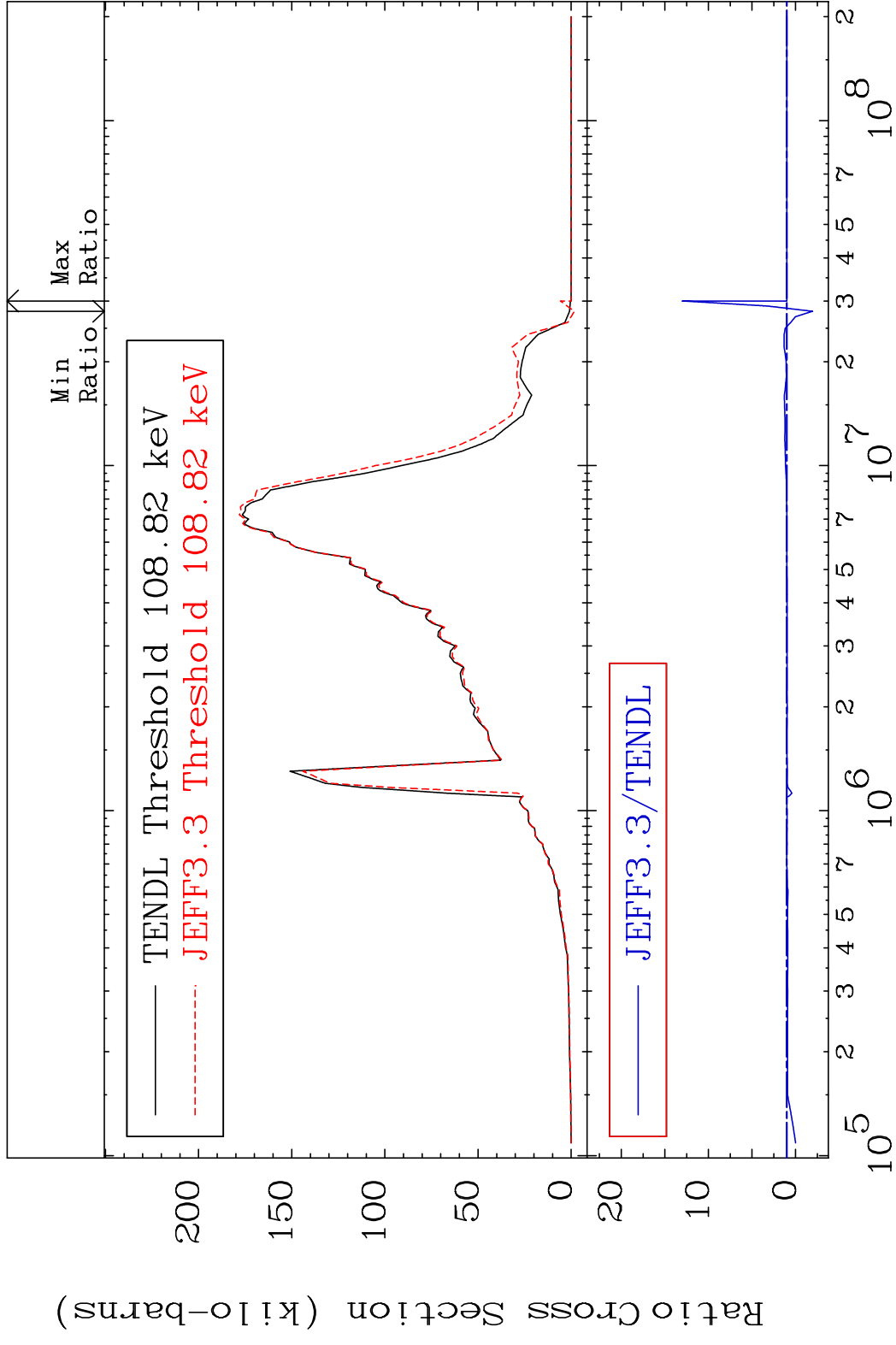
64-Gd-151

MAT 6422 Kerma non-elastic (all but mt2) 64-Gd-151  
Cross Section -9999. To 9999. %

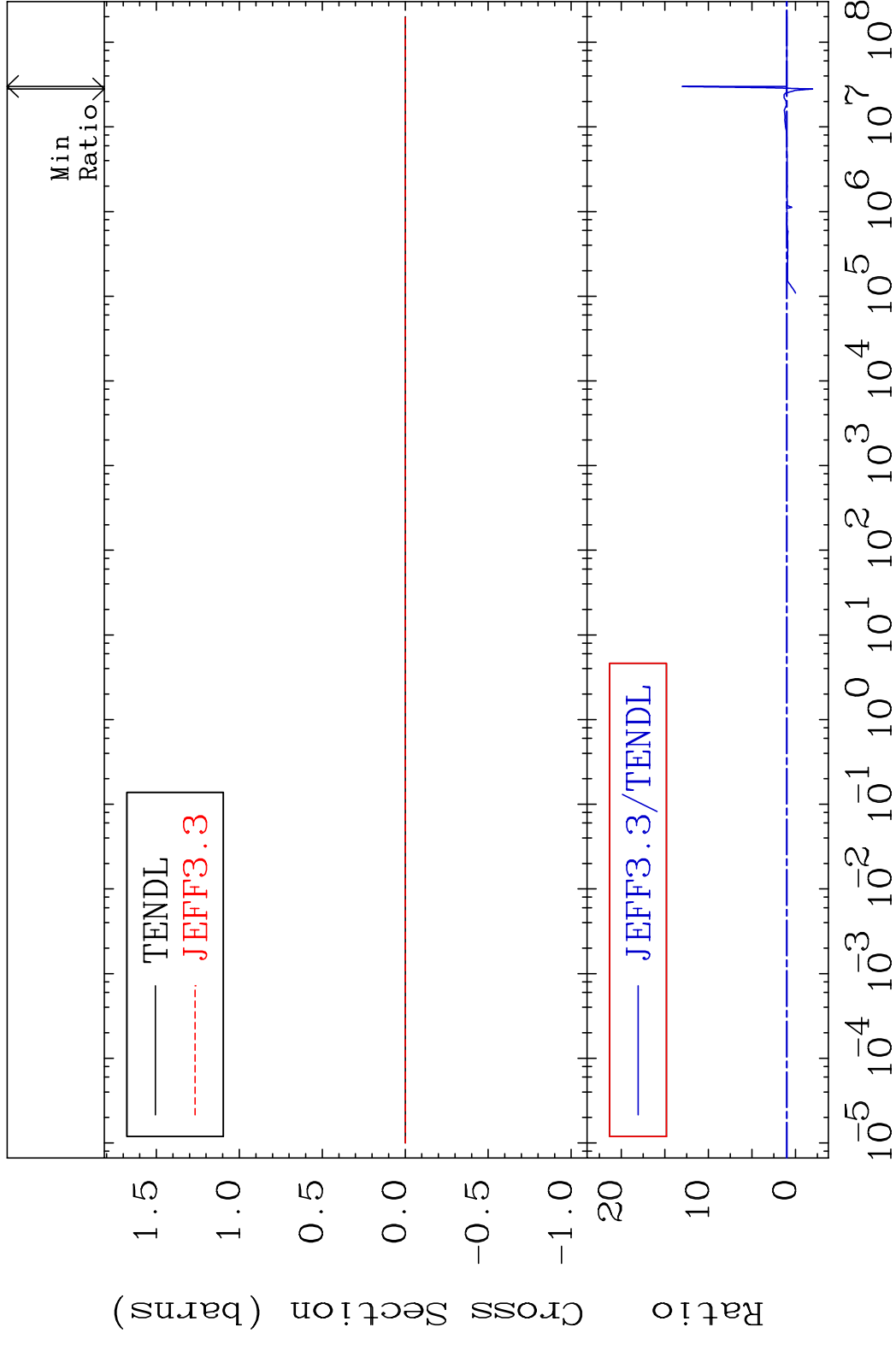


70 Incident Energy (eV) 64-Gd-151

MAT 6422 Kerma inelastic (mt51-91) 64-Gd-151  
 Cross Section -294.6 To 1199. %

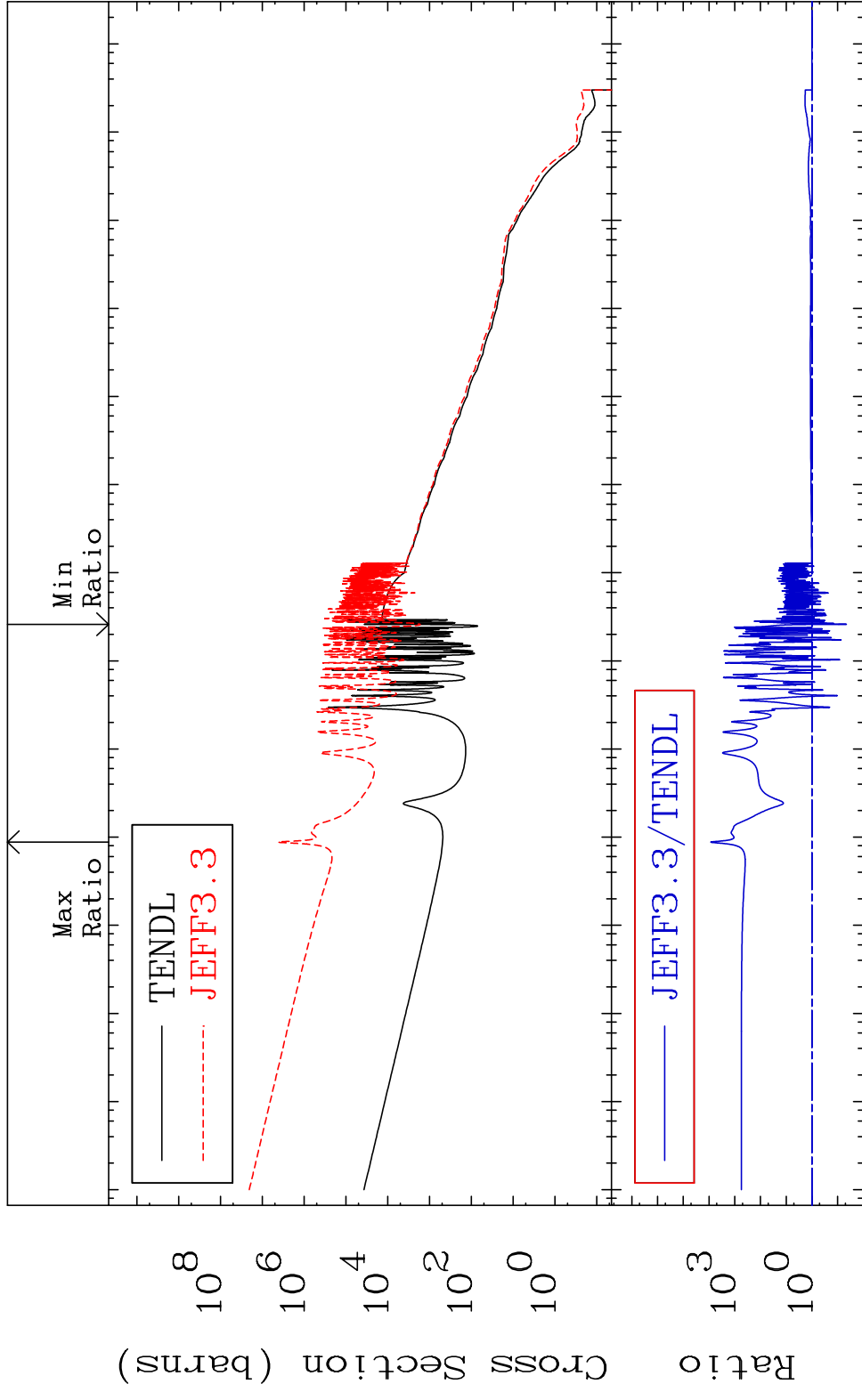


MAT 6422 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-151  
 Cross Section -294.6 To 1199. %



MAT 6422

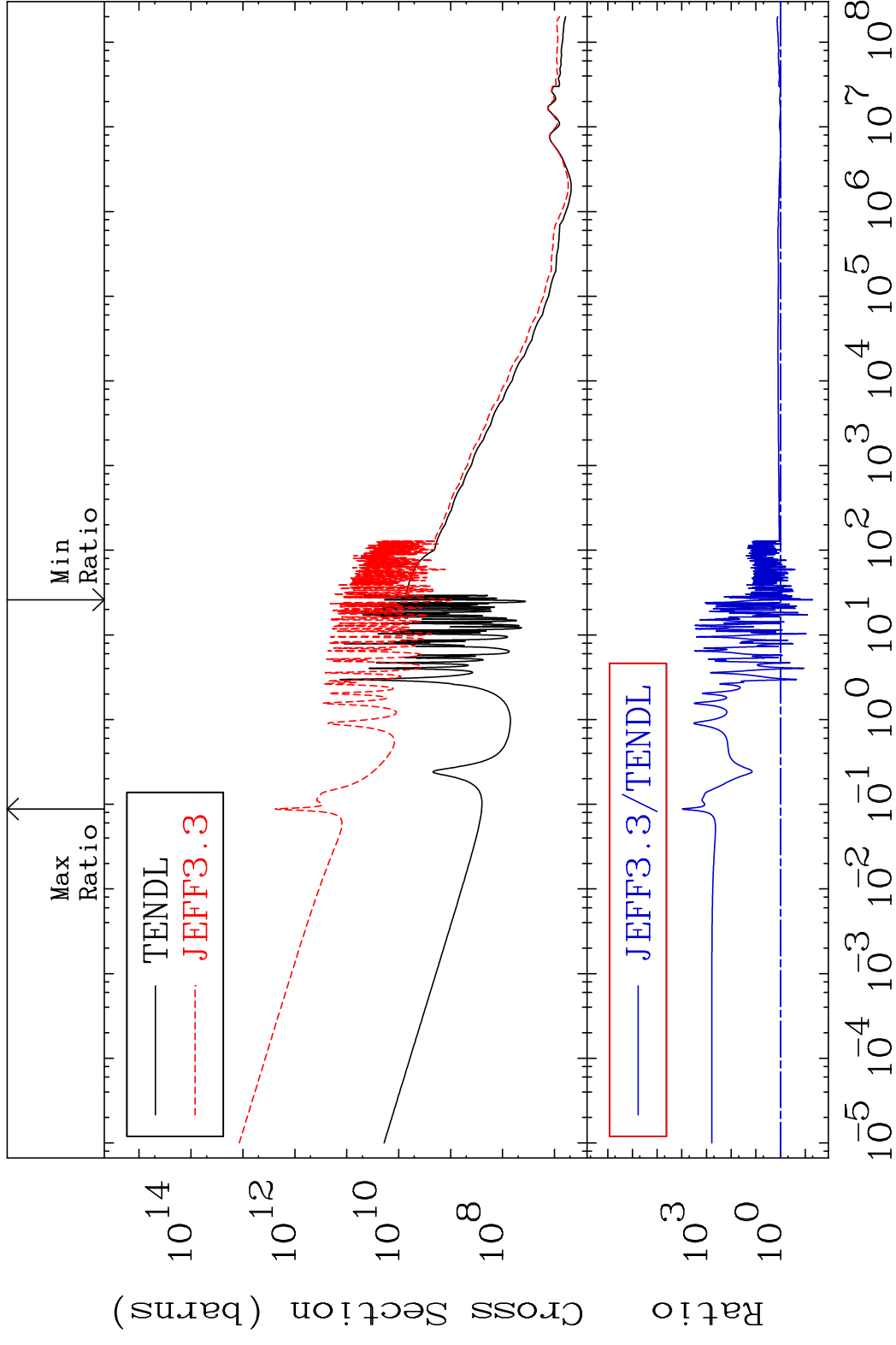
Kerma capture (mt102) 64-Gd-151  
Cross Section -95.42 To 9999. %



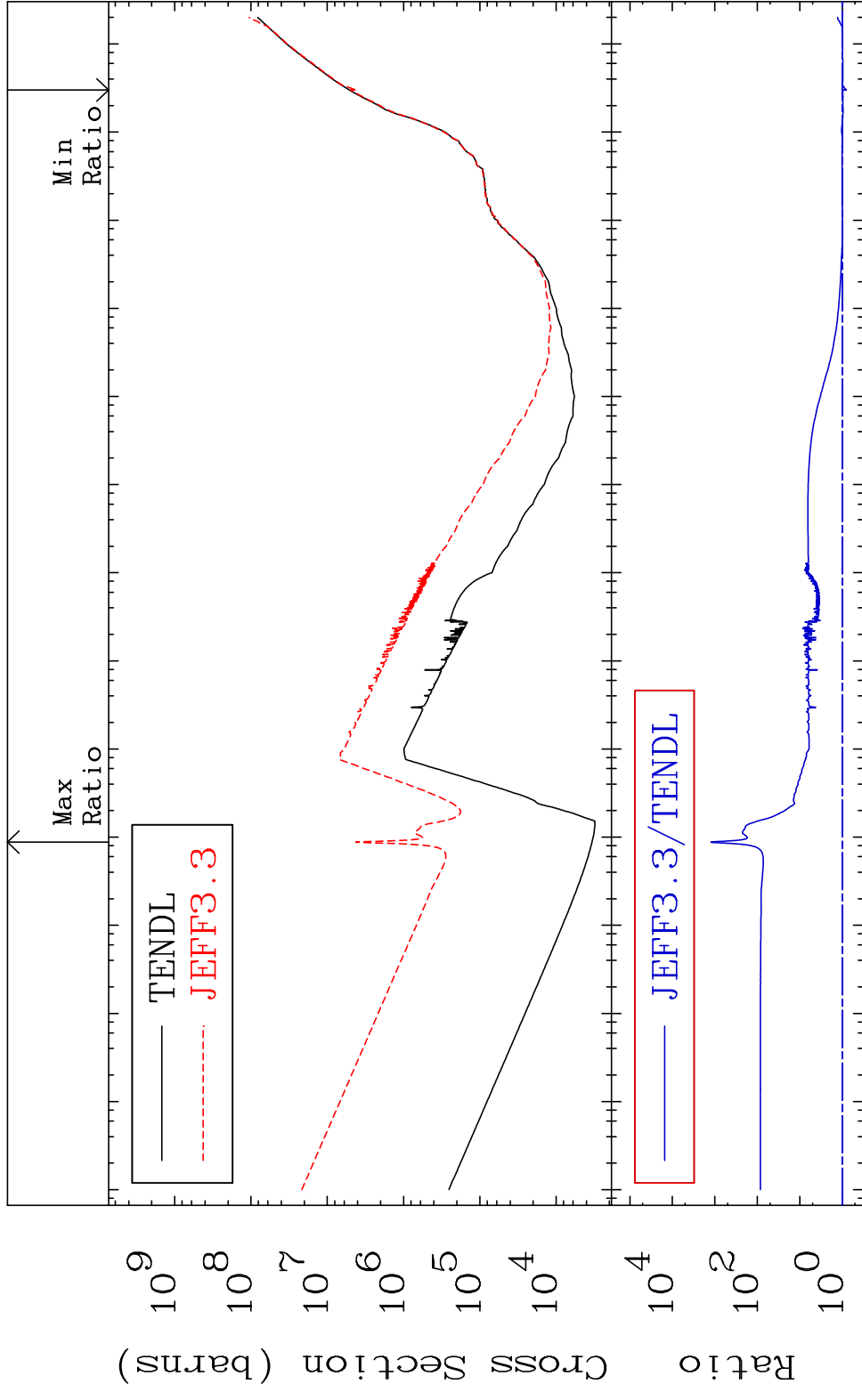
73

Incident Energy (eV) 64-Gd-151

MAT 6422 Total photon (eV-barns) 64-Gd-151  
 Cross Section -94.93 To 9999. %



MAT 6422 Total kinematic kerma (high limit) 64-Gd-151  
 Cross Section -19.93 To 9999. %

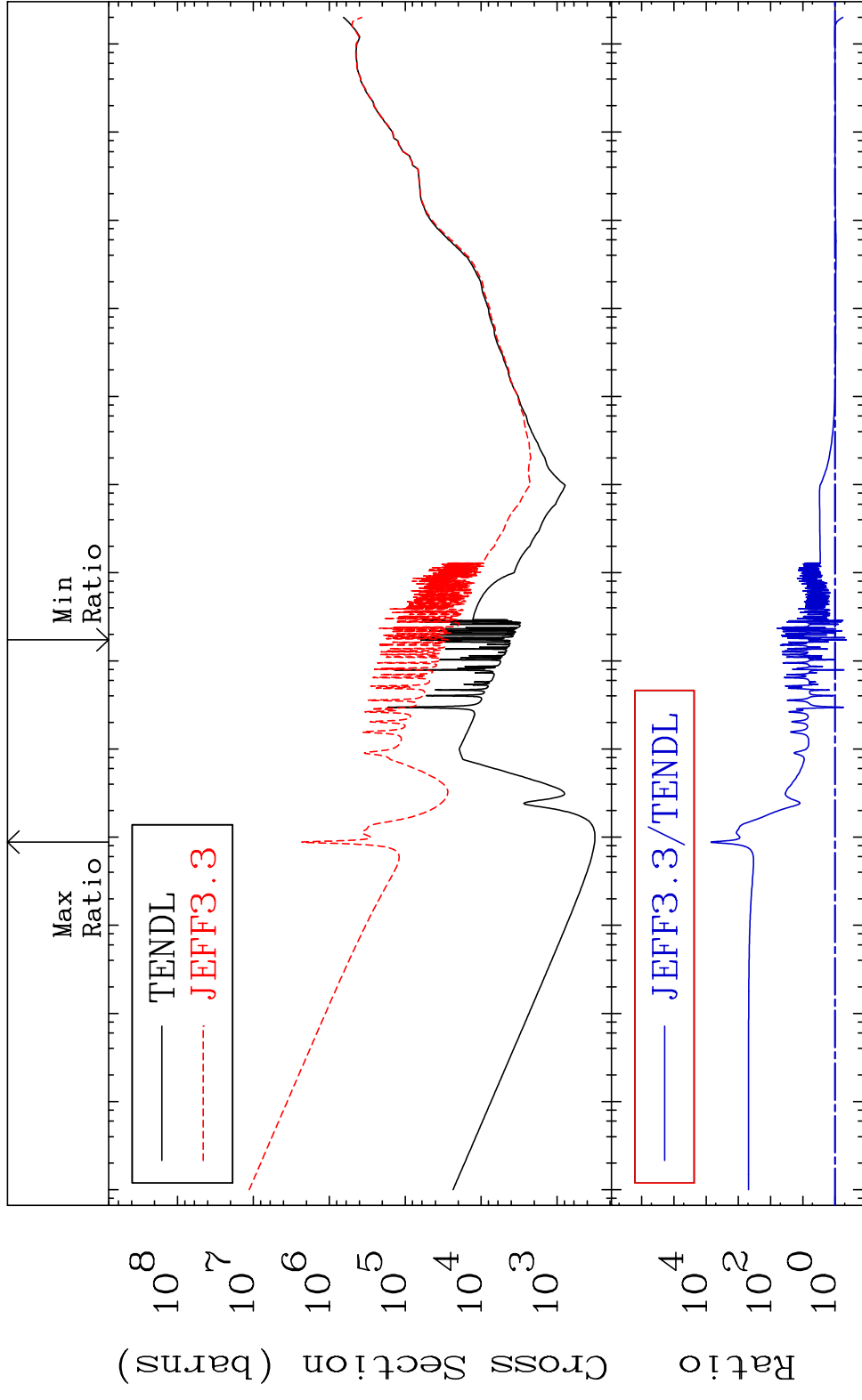


MAT 6422

Dpa total (eV-barns)

64-Gd-151

Cross Section -55.33 To 9999. %

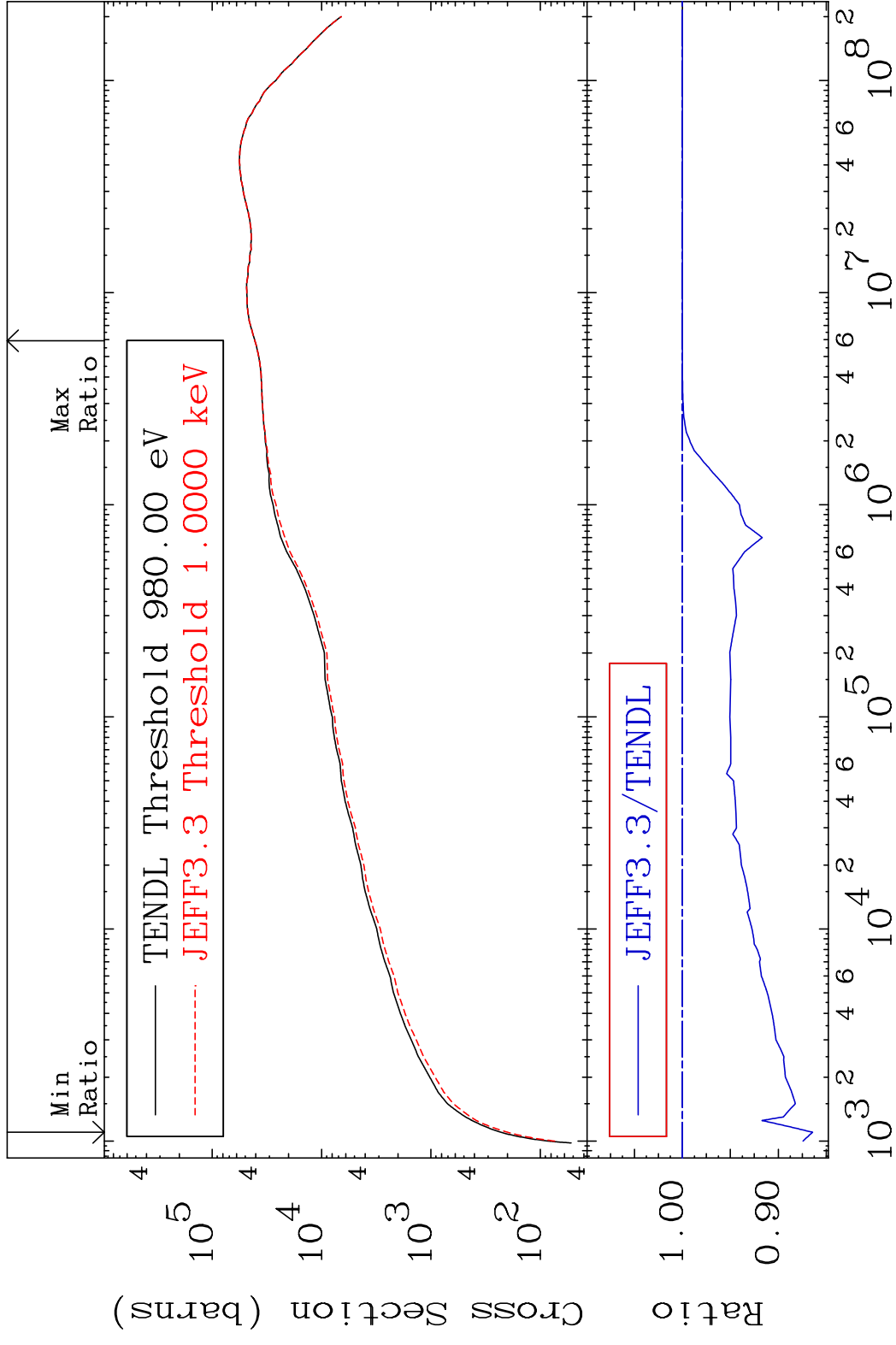


MAT 6422

Dpa elastic (mt2)

64-Gd-151

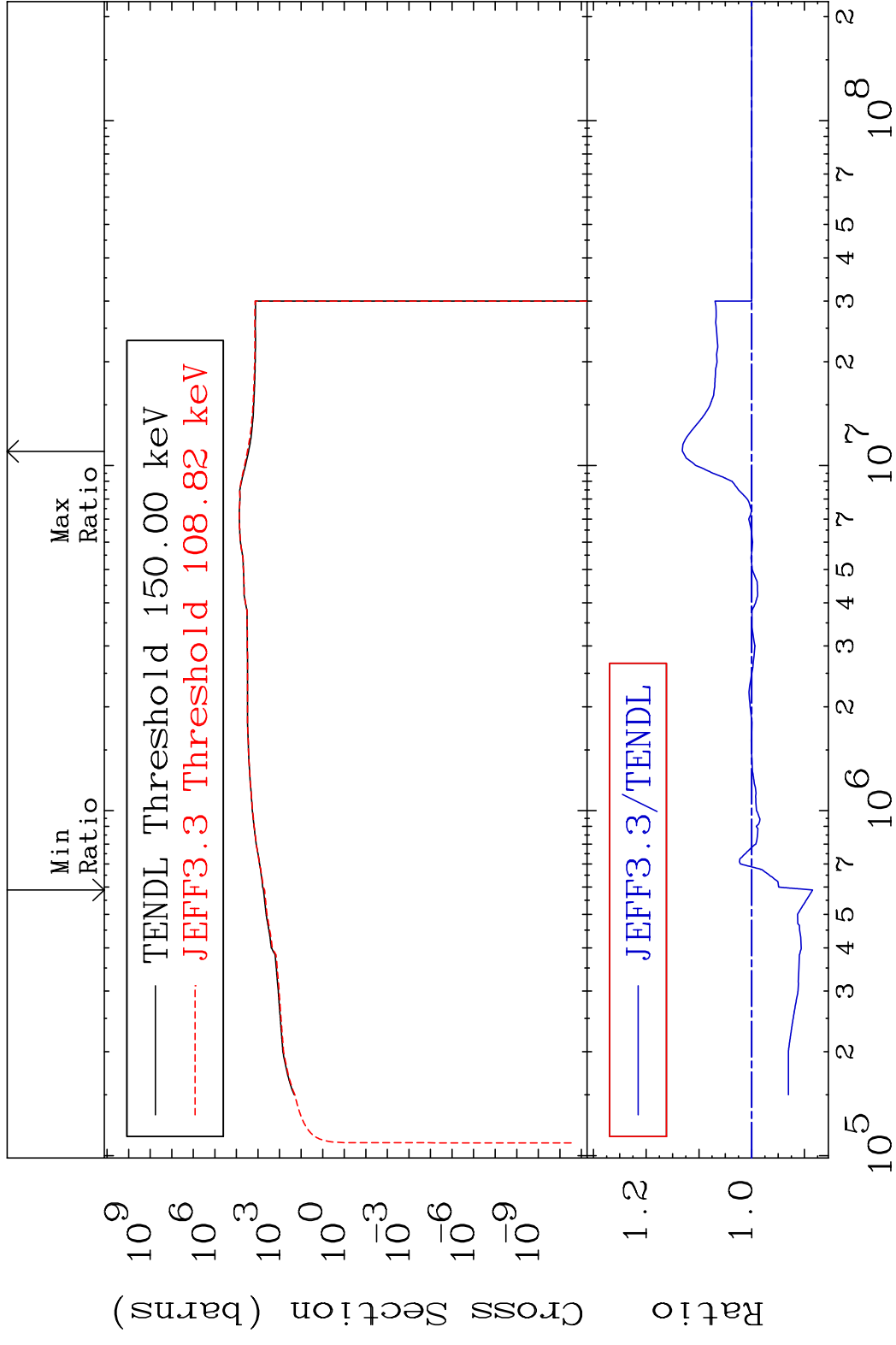
Cross Section -13.57 To 0.004 %



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Incident Energy (eV)

64-Gd-151



MAT 6422 Dpa disappearance (mt102 -120) 64-Gd-151  
 Cross Section -55.33 To 9999. %

