

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

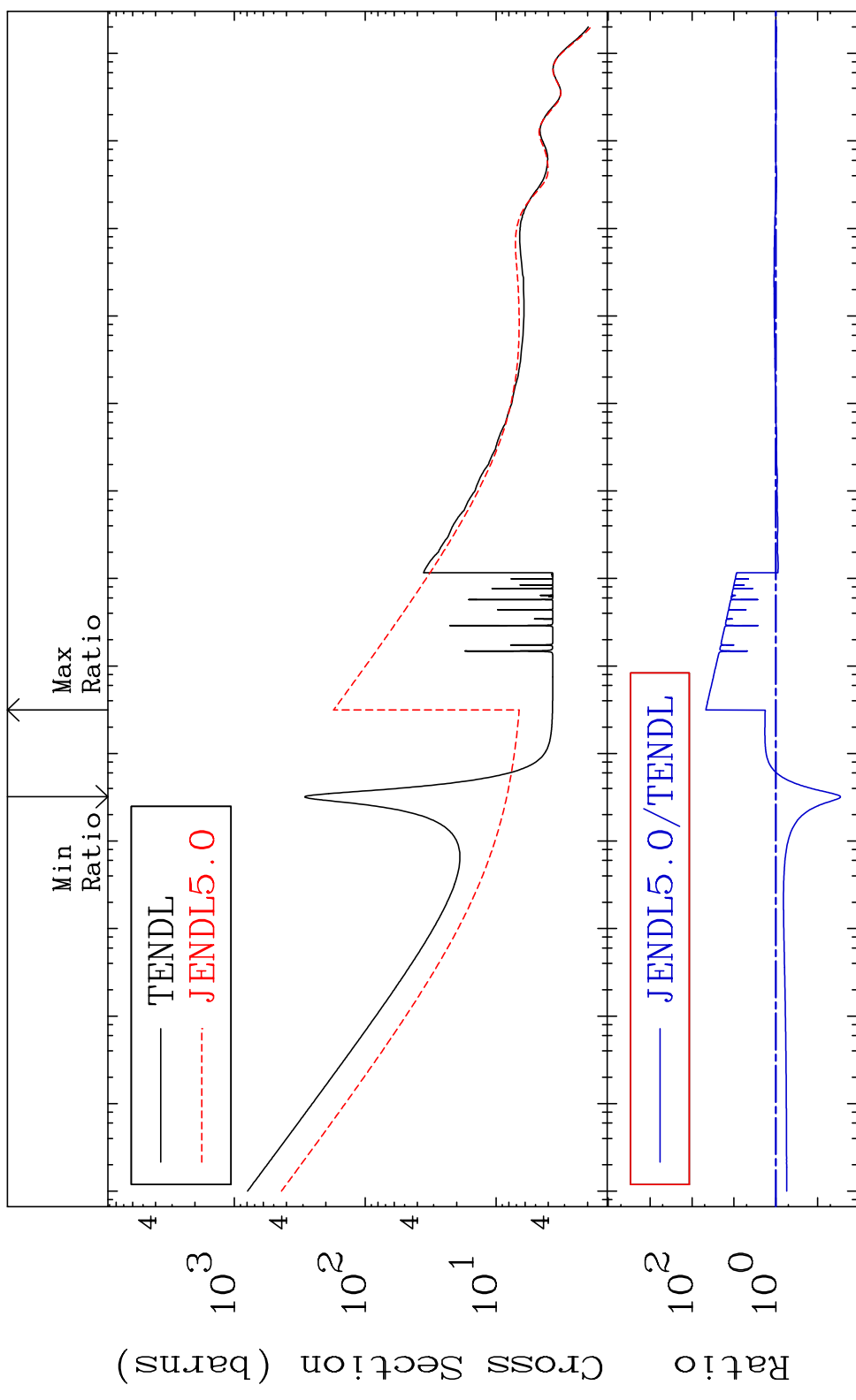
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5119

Total  
Cross Section -97.13 To 4596. %



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>

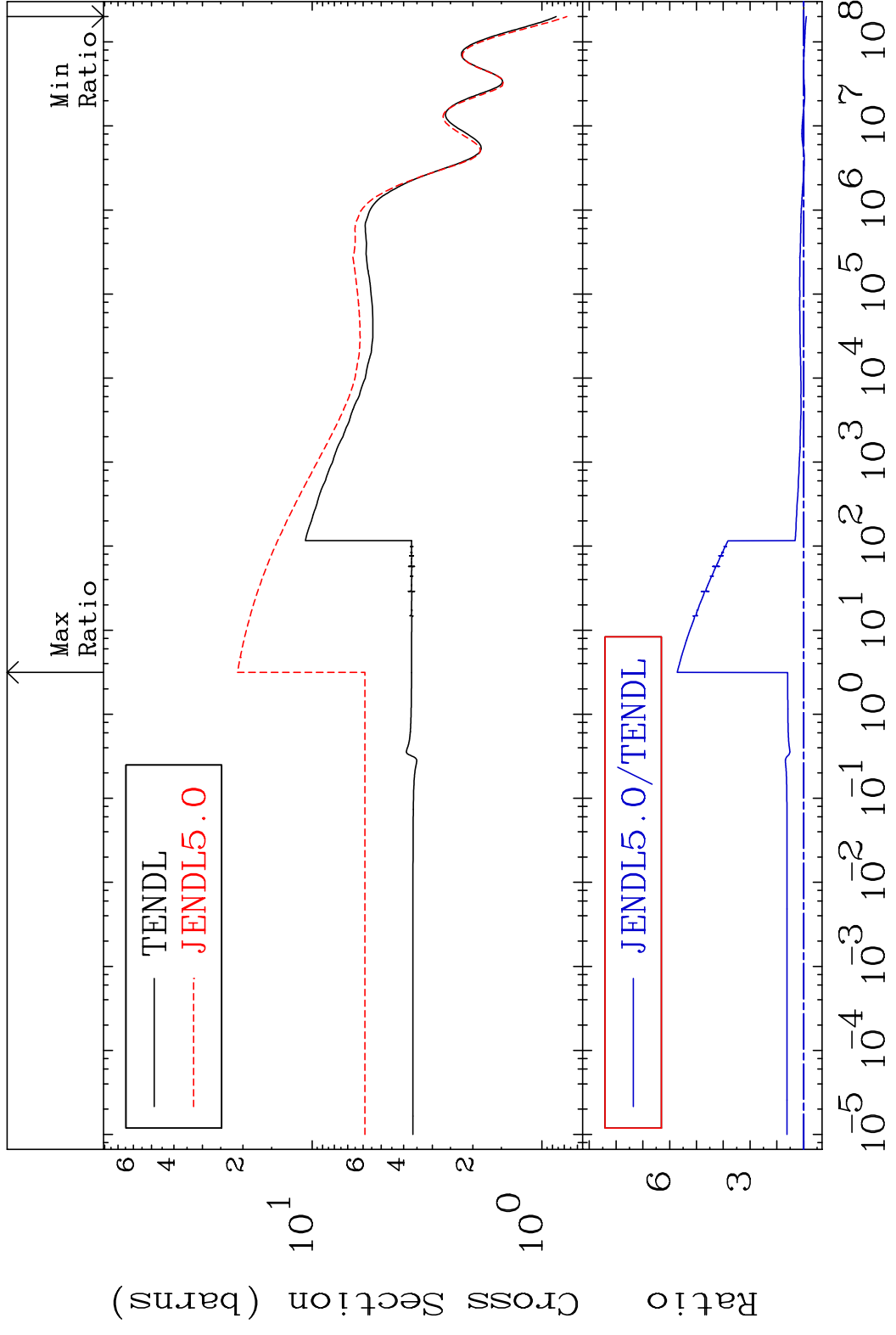
Incident Energy (eV) 51-Sb-119

MAT 5119

Elastic

51-Sb-119

Cross Section -10.22 To 471.9 %

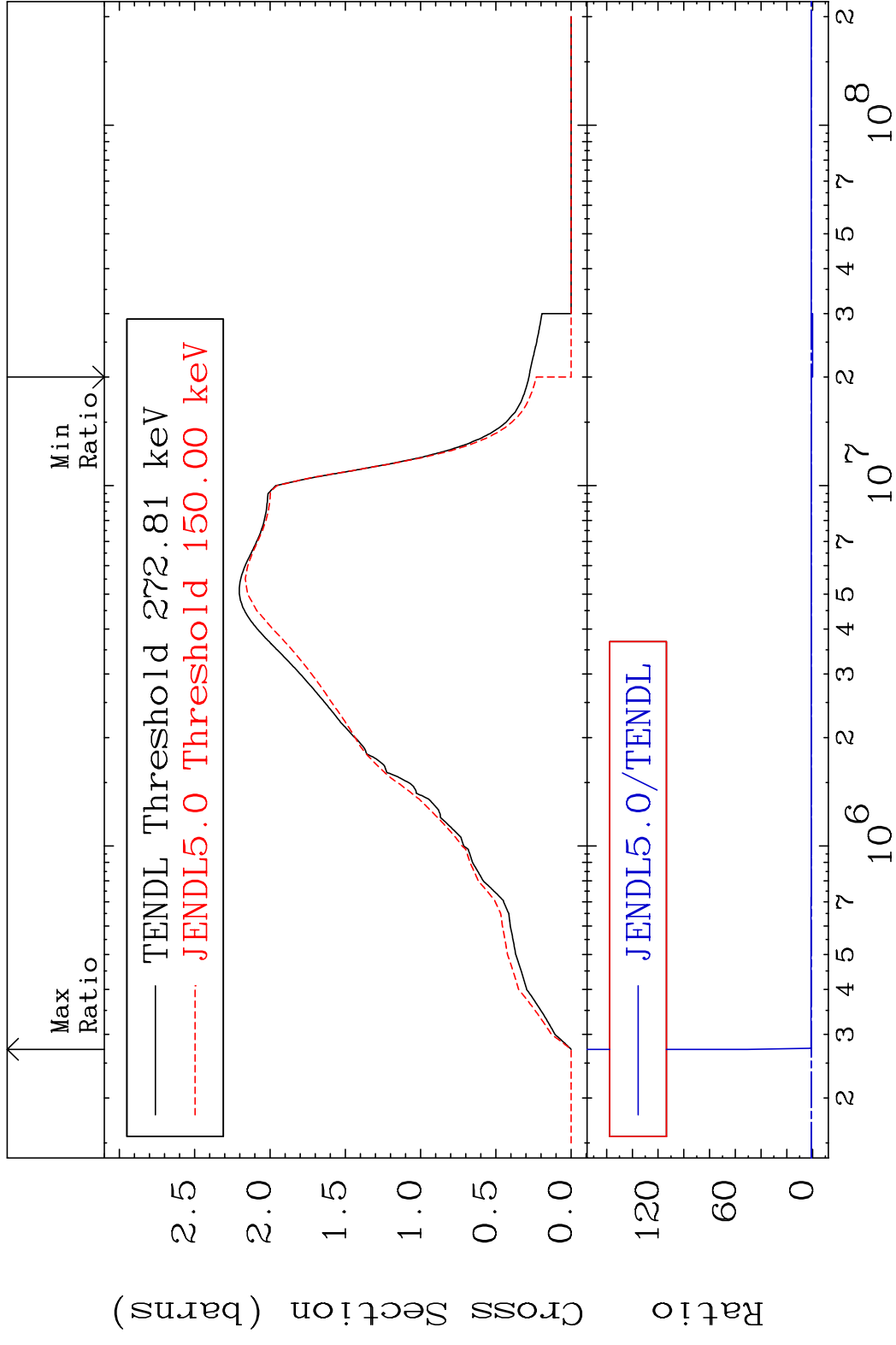


2

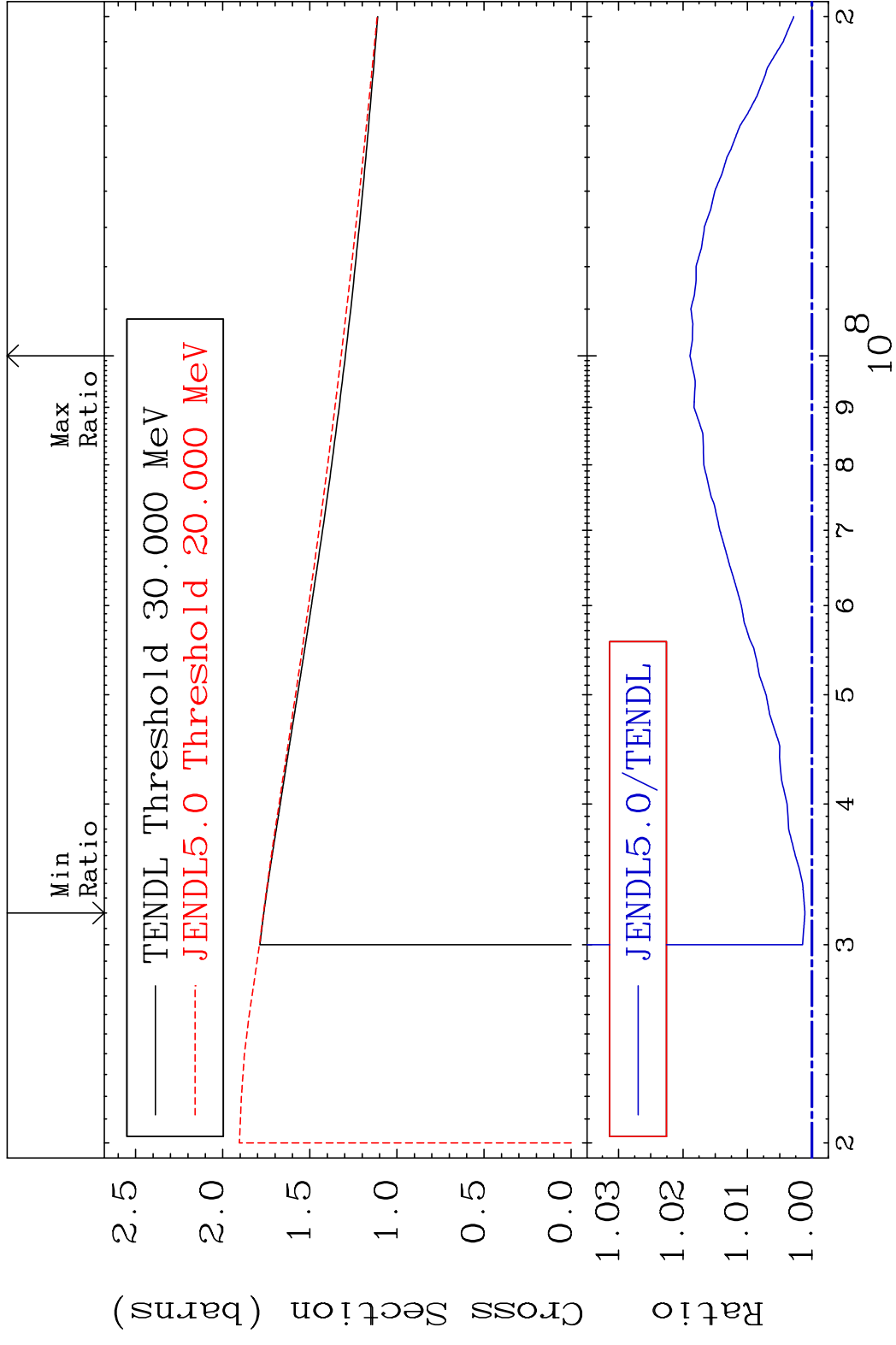
Incident Energy (eV)

51-Sb-119

MAT 5119 Inelastic 51-Sb-119  
 Cross Section -100.0 To 9999. %



MAT 5119 (n, remainder) 51-Sb-119  
 Cross Section 0.108 To 1.892 %

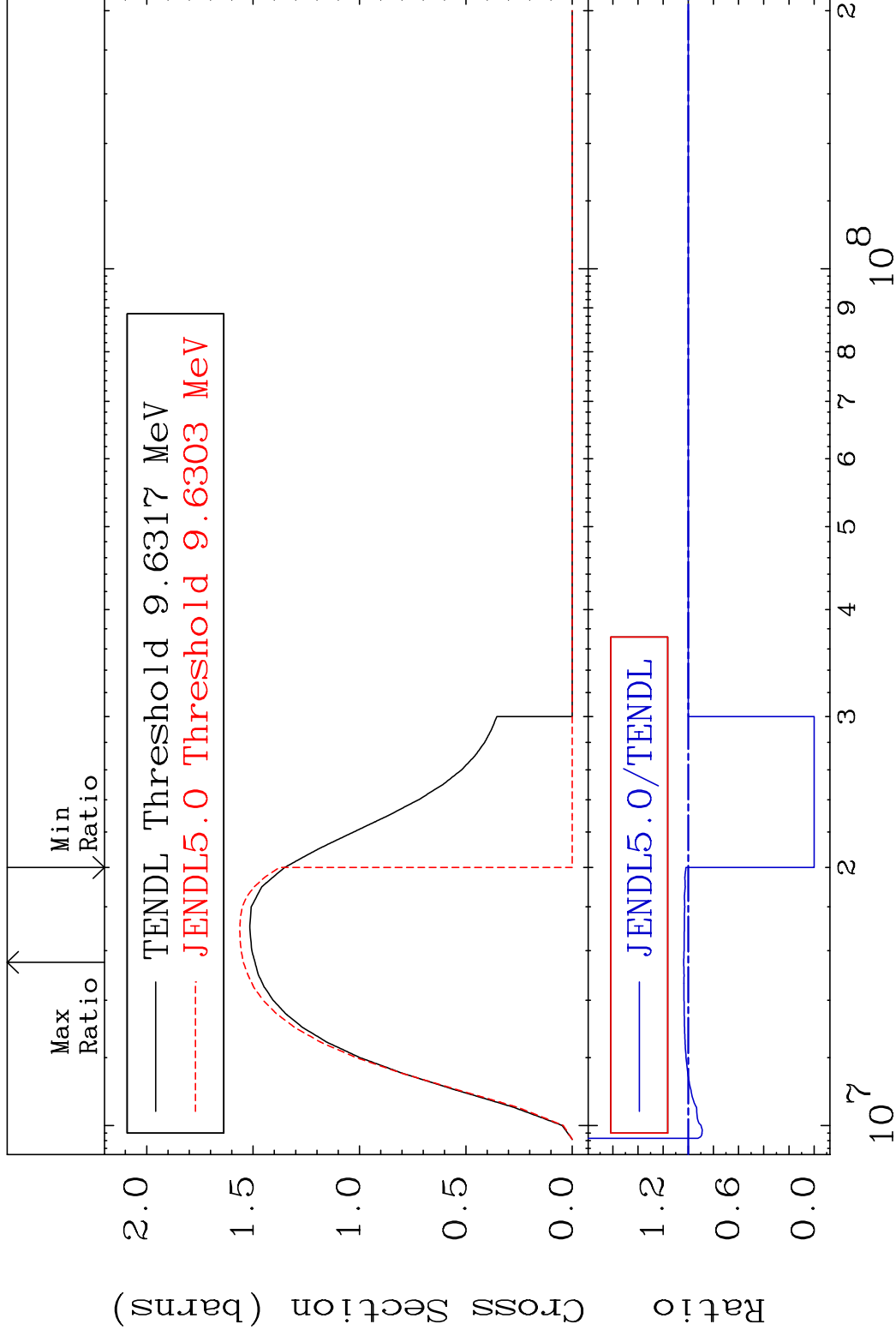


MAT 5119

(n,2n)

51-Sb-119

Cross Section -100.0 To 3.661 %



5

Incident Energy (eV)

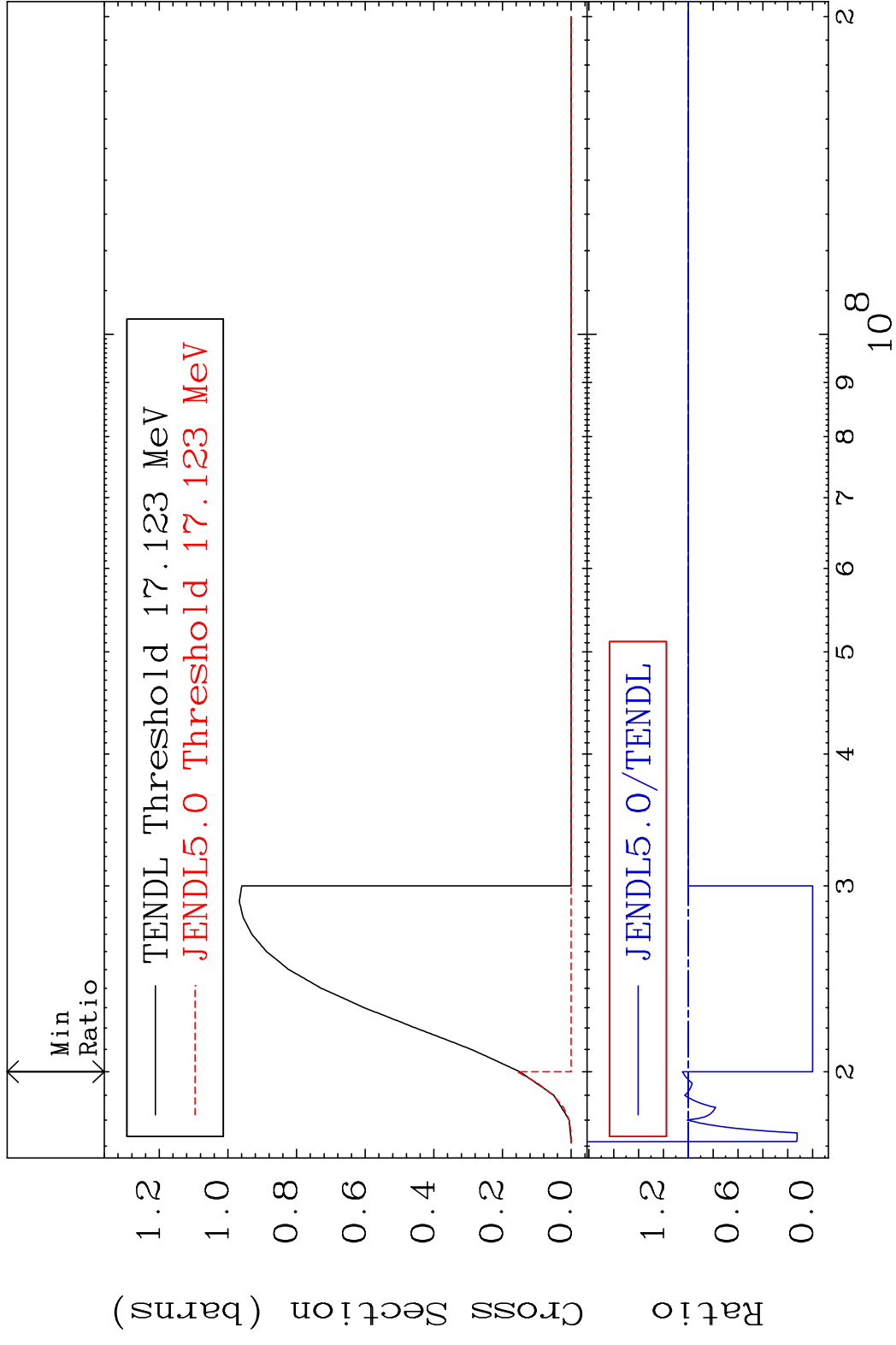
51-Sb-119

MAT 5119

(n,3n)

51-Sb-119

Cross Section -100.0 To 4.781 %

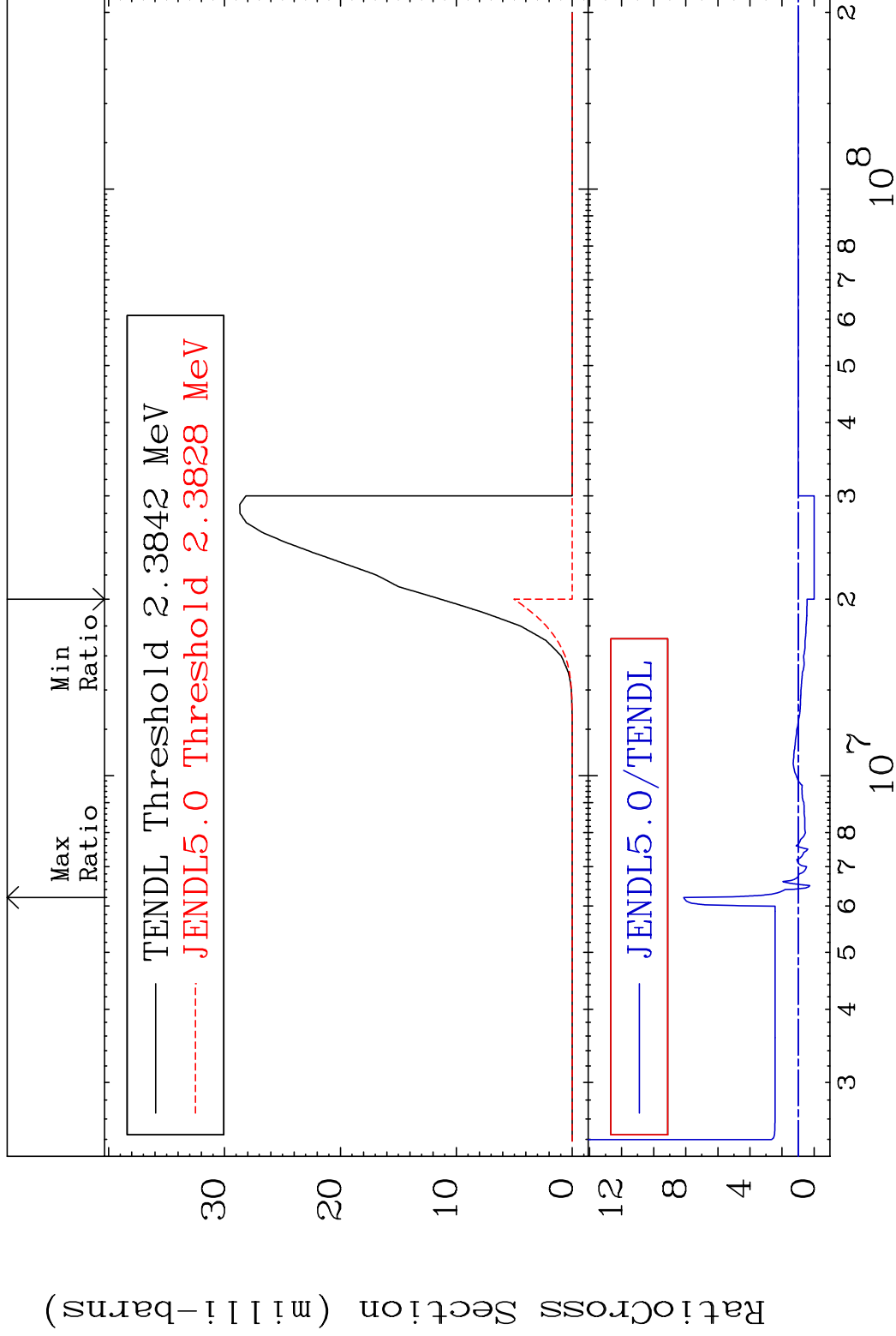


MAT 5119

(n, n')  $\alpha$

51-Sb-119

Cross Section -100.0 To 713.1 %



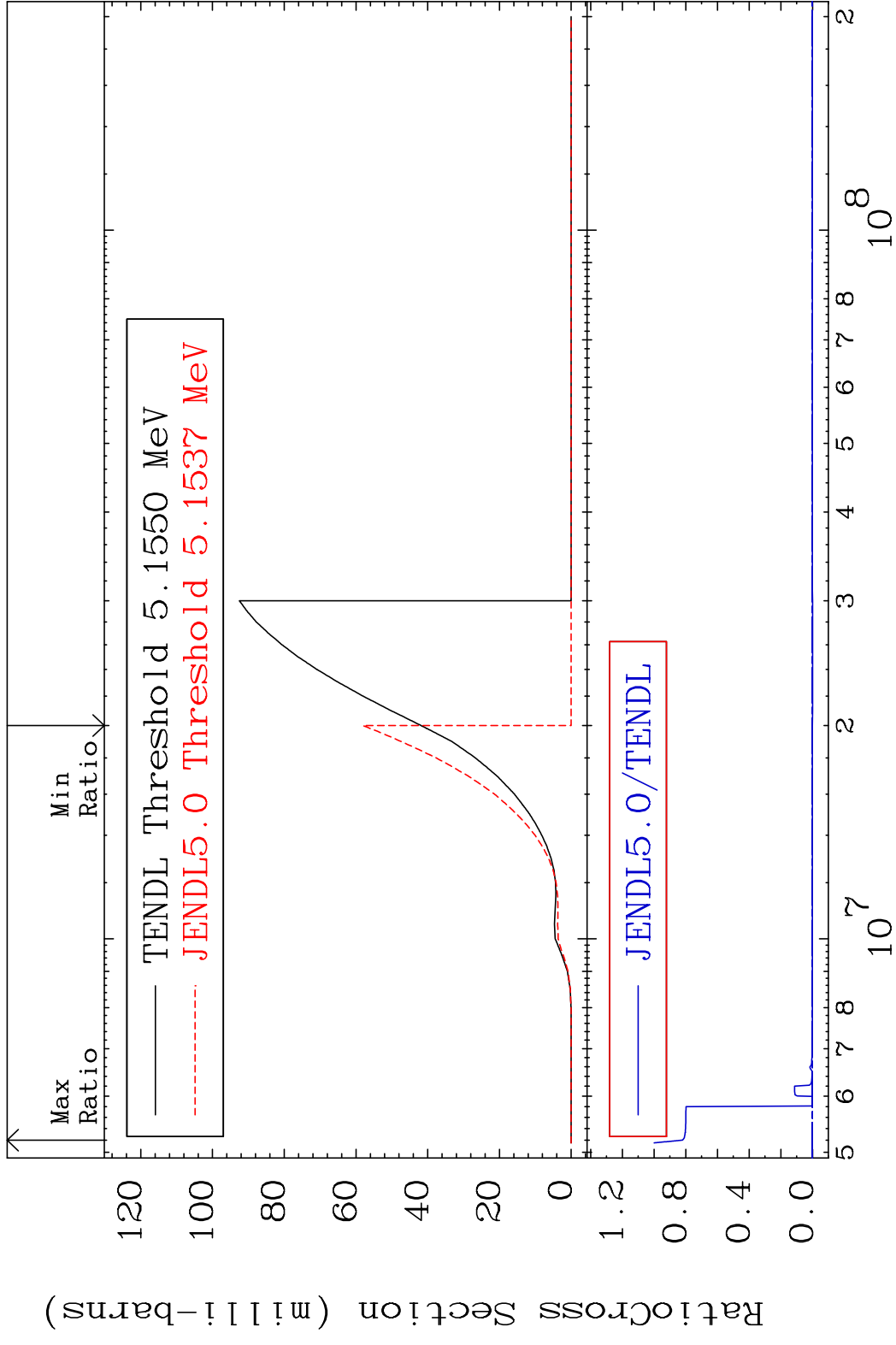
7

Incident Energy (eV)

51-Sb-119



MAT 5119 (n, n') p 51-Sb-119  
 Cross Section -100.0 To 9999. %

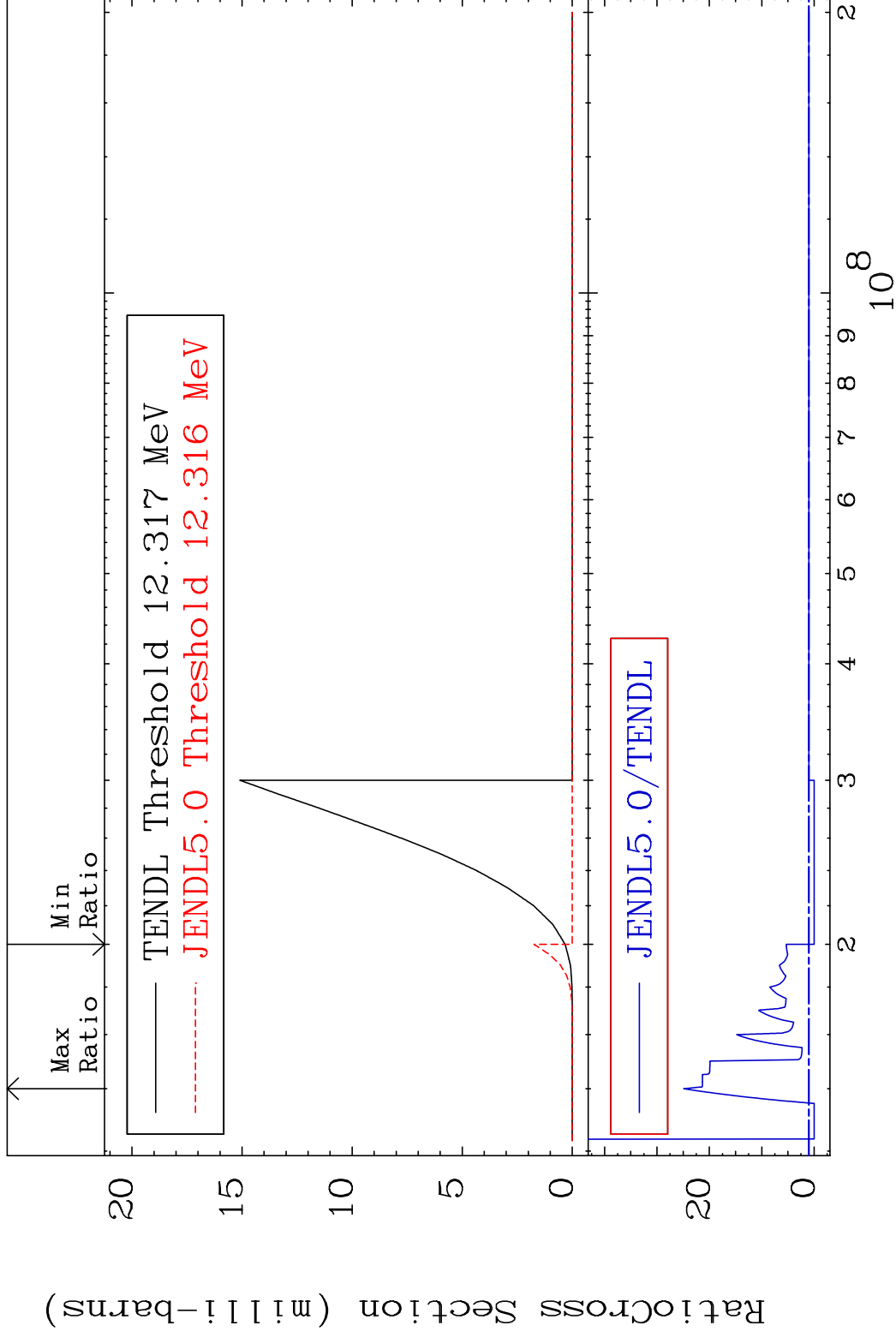


MAT 51119

(n, n') d

51-Sb-119

Cross Section -100.0 To 2391. %



9

Incident Energy (eV)

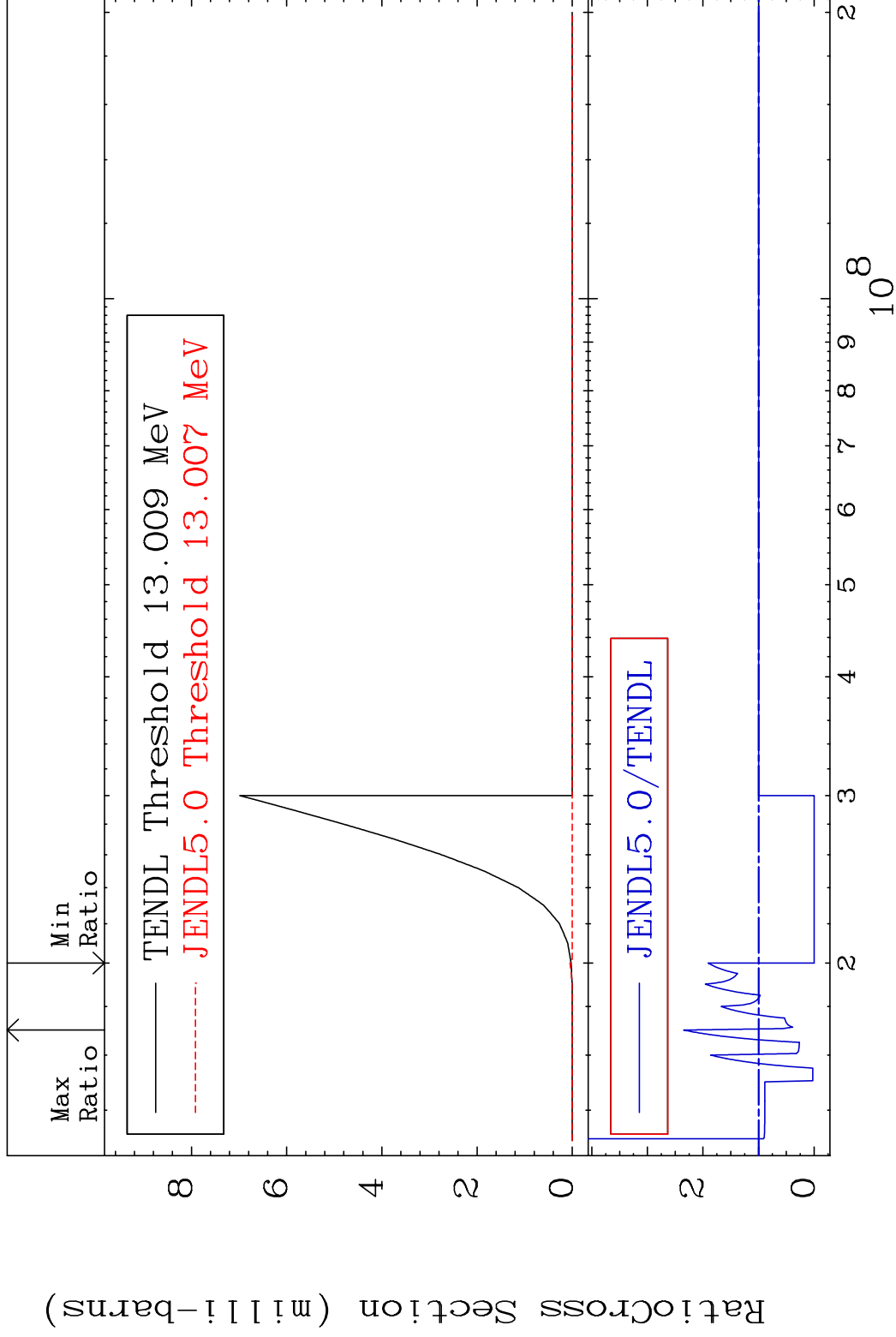
51-Sb-119

MAT 5119

(n, n') t

51-Sb-119

Cross Section -100.0 To 134.8 %

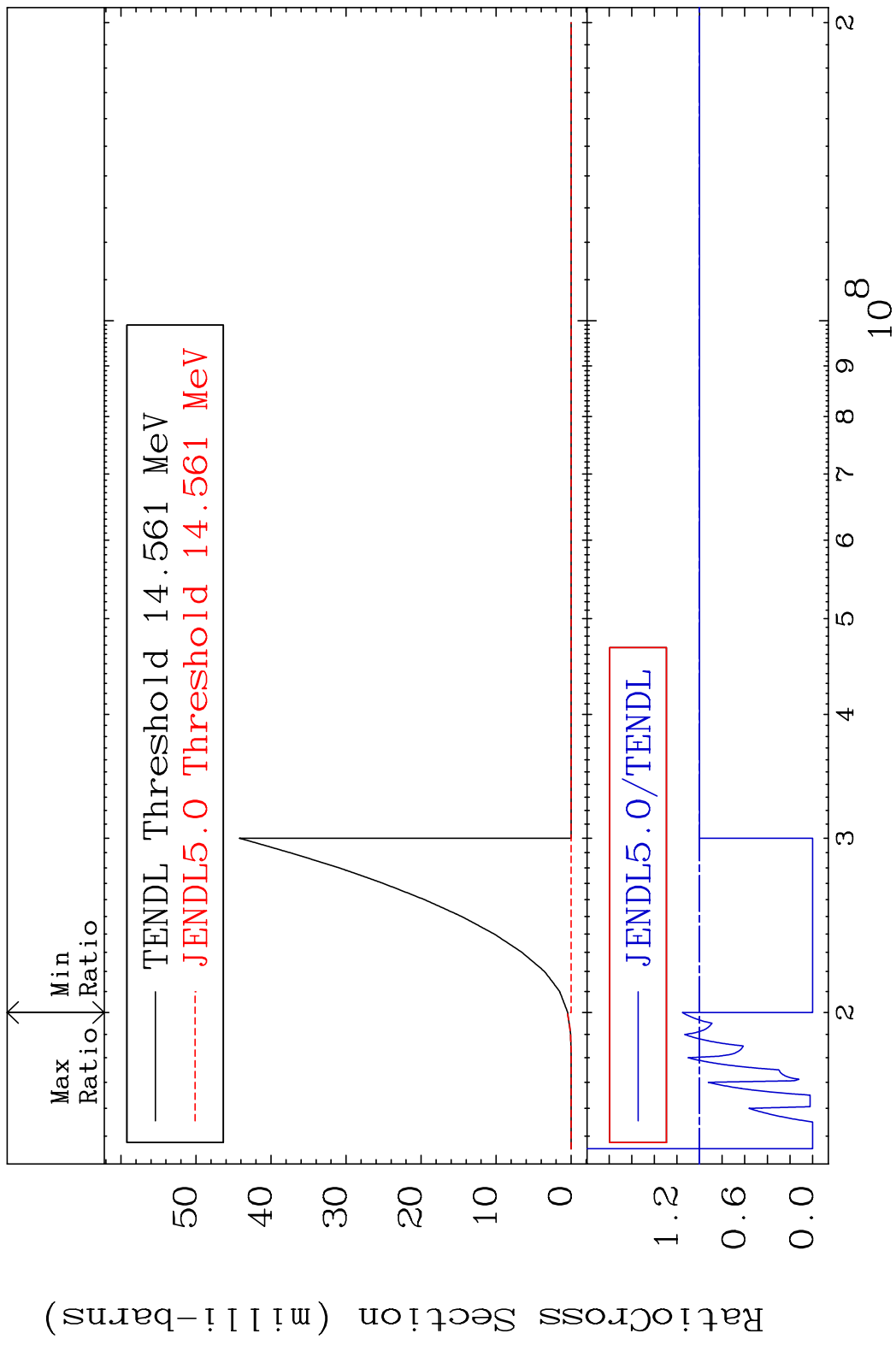


10

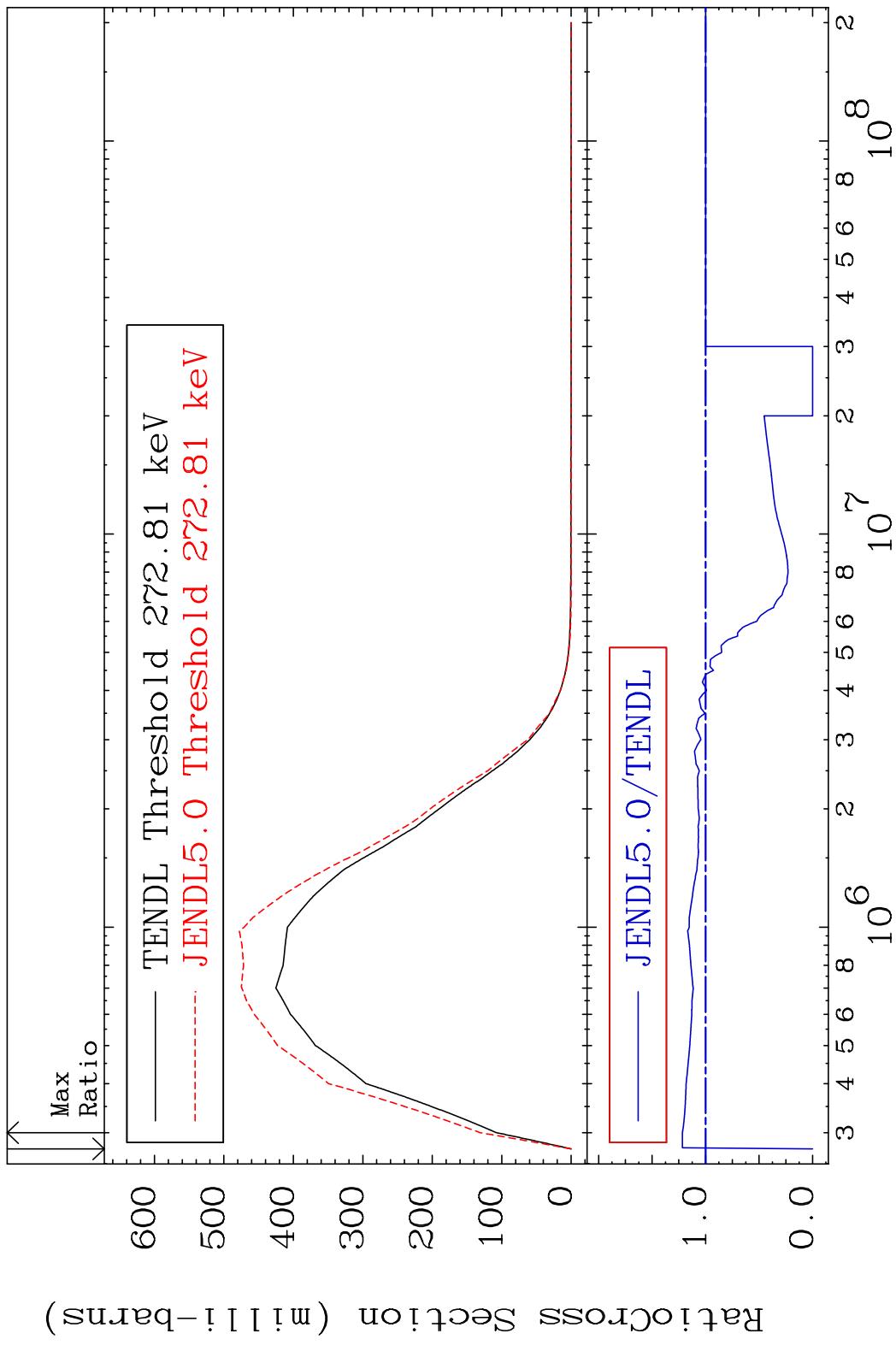
Incident Energy (eV)

51-Sb-119

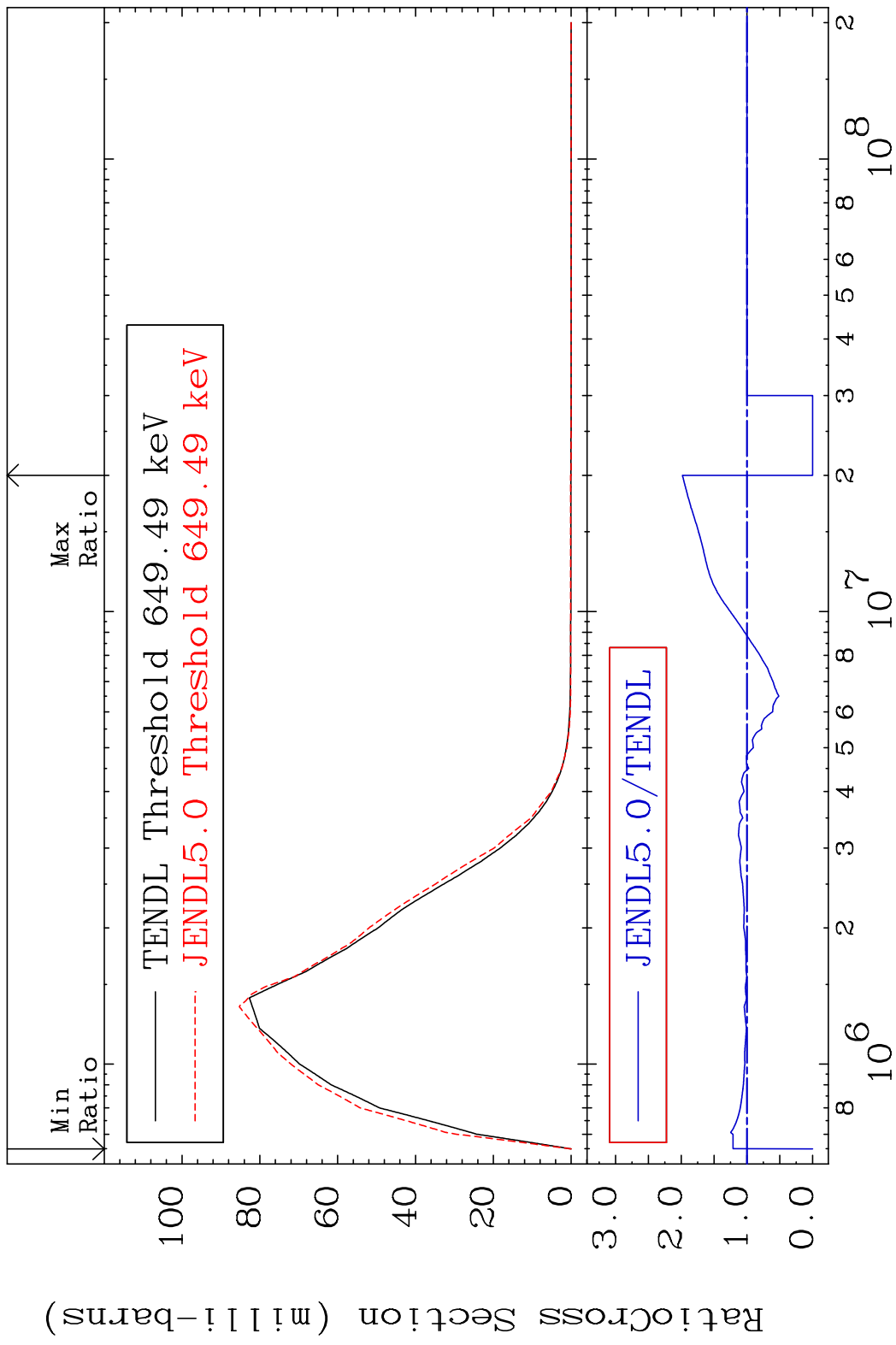
MAT 5119 (n,2n) p 51-Sb-119  
 Cross Section -100.0 To 15.21 %



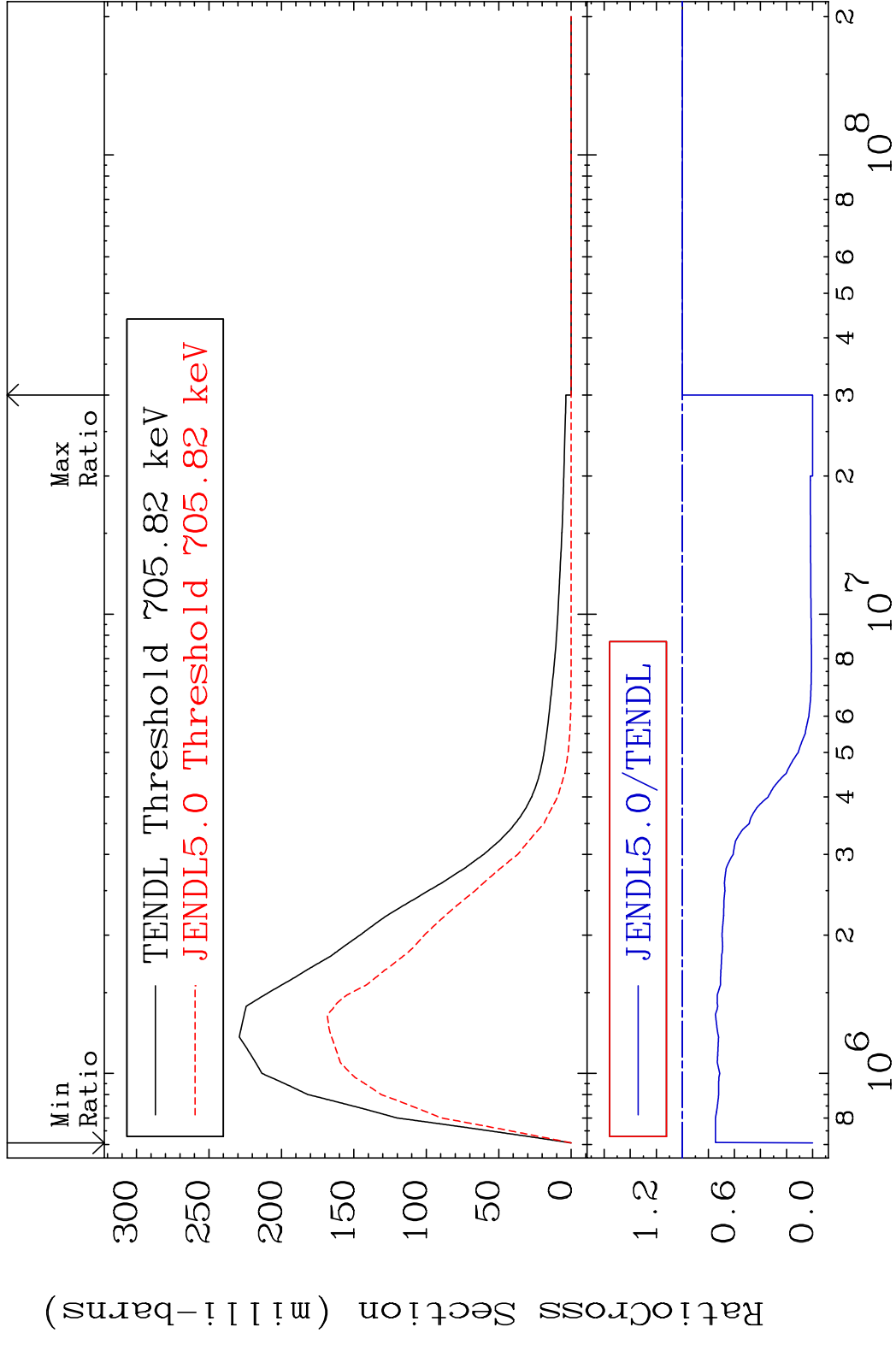
MAT 5119 MT= 51 (n,n') Level 51-Sb-119  
 Cross Section -100.0 To 21.72 %



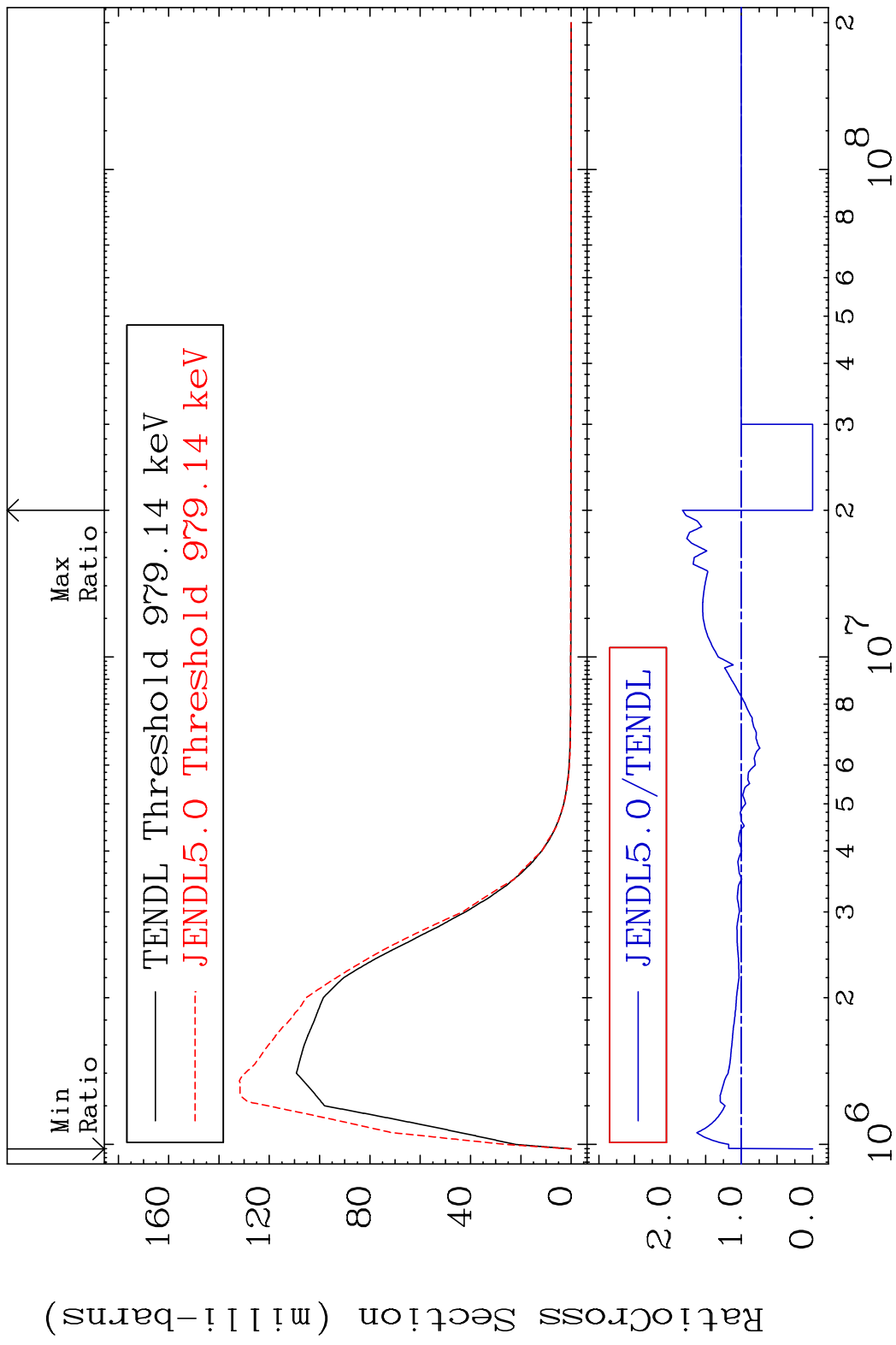
MAT 51119 MT= 52 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 98.34 %



MAT 5119 MT= 53 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 0.000 %

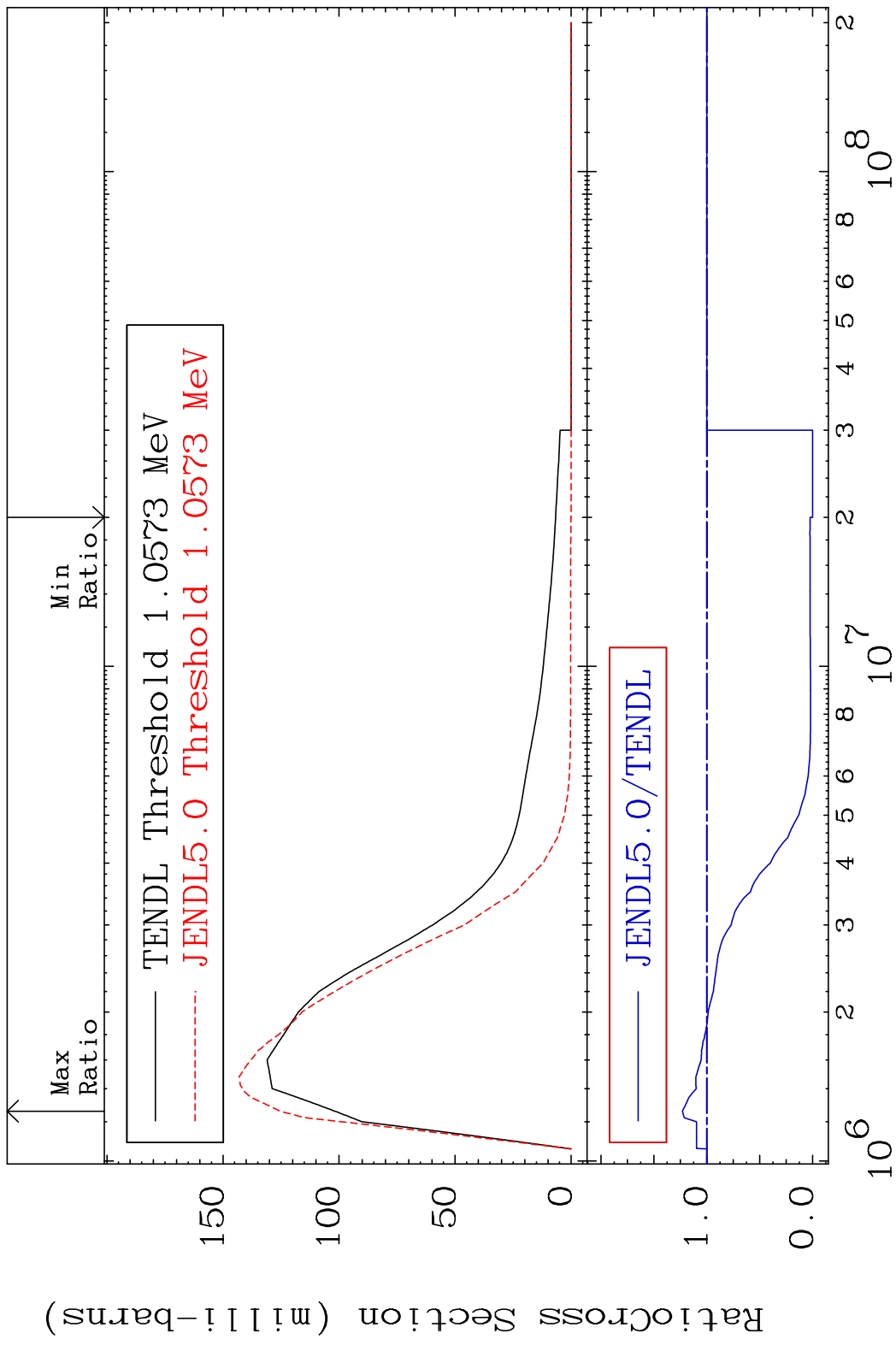


MAT 5119 MT= 54 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 82.79 %



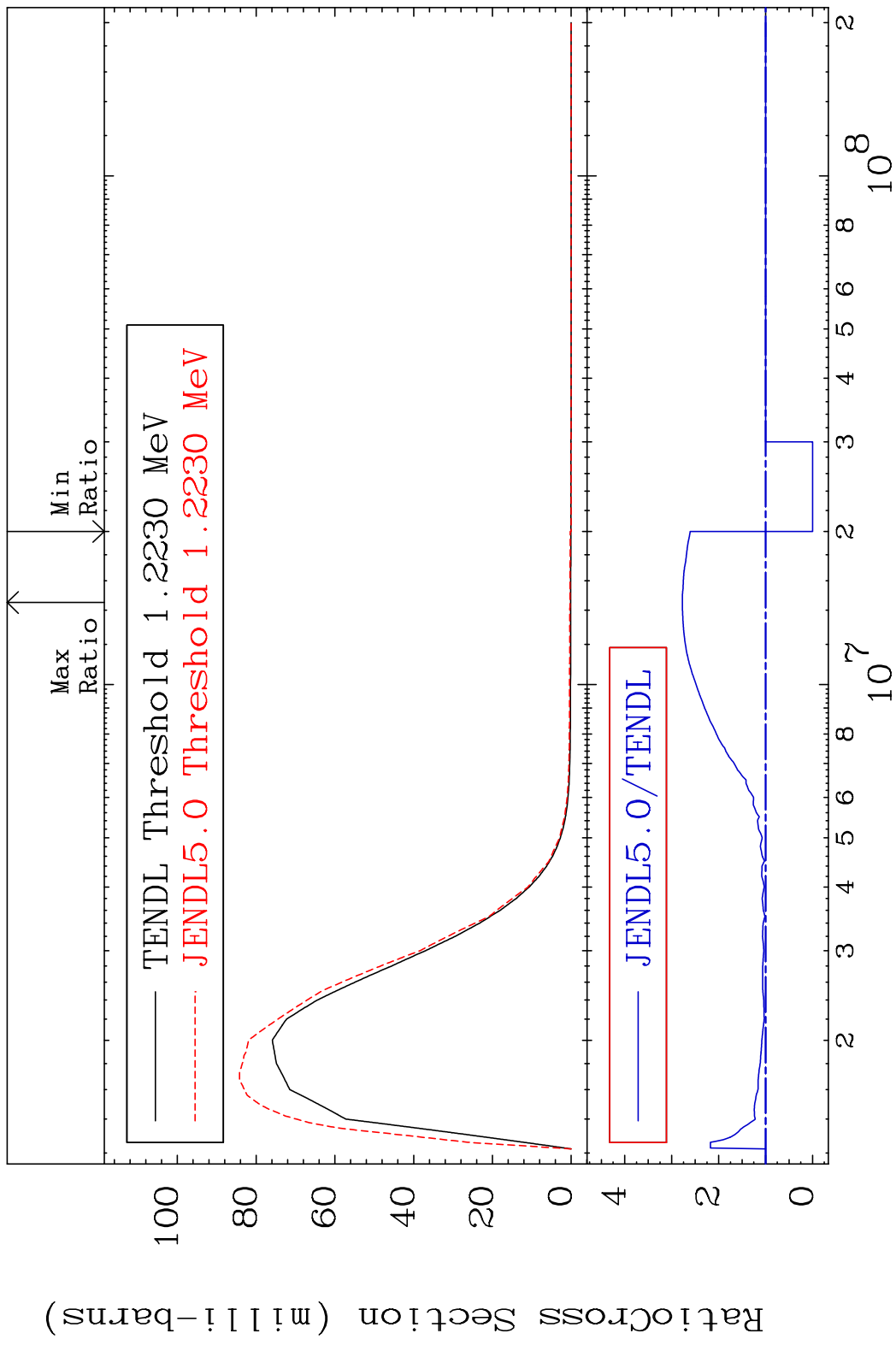


MAT 5119 MT= 55 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 23.12 %

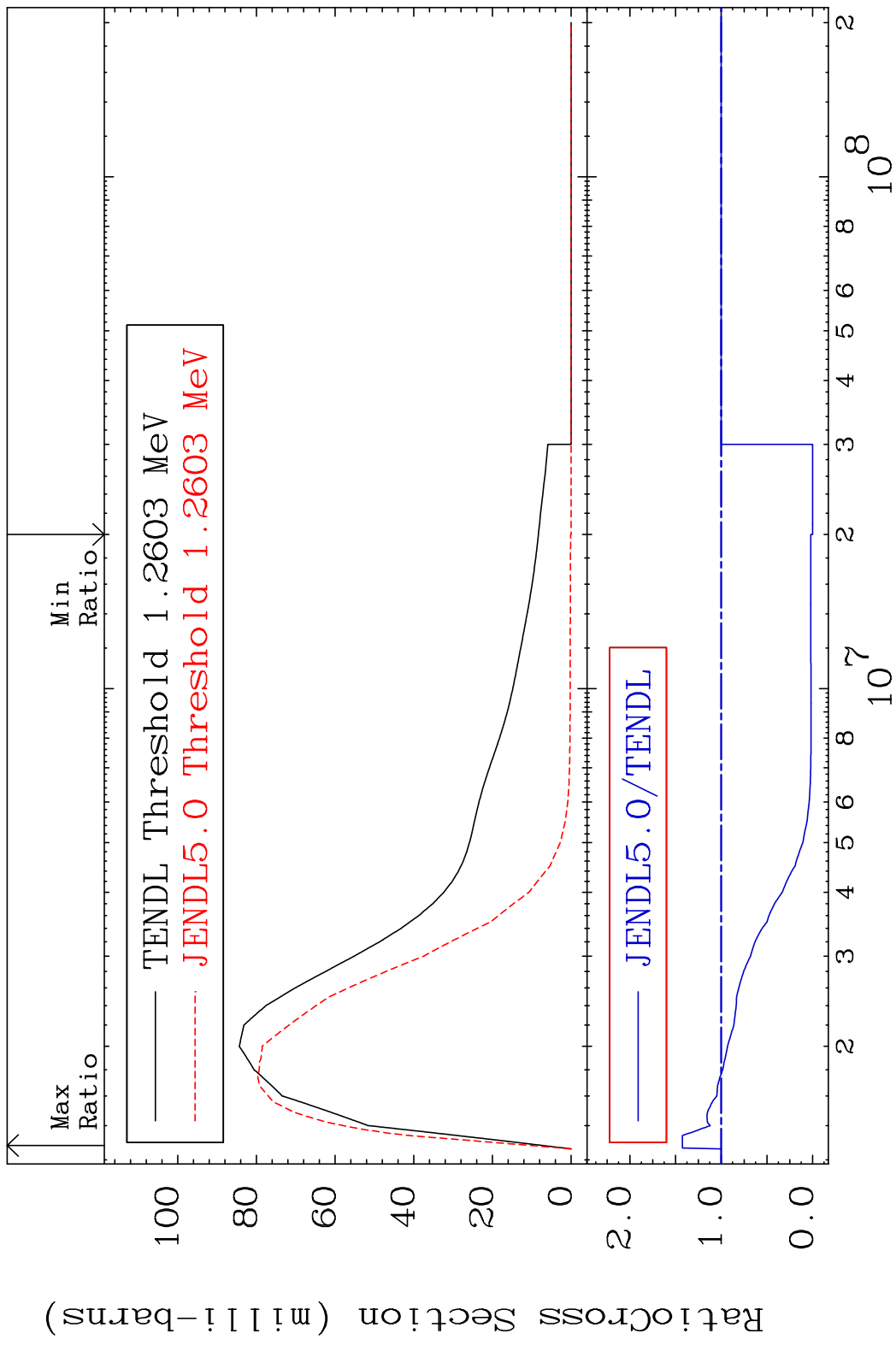


16 Incident Energy (eV) 51-Sb-119

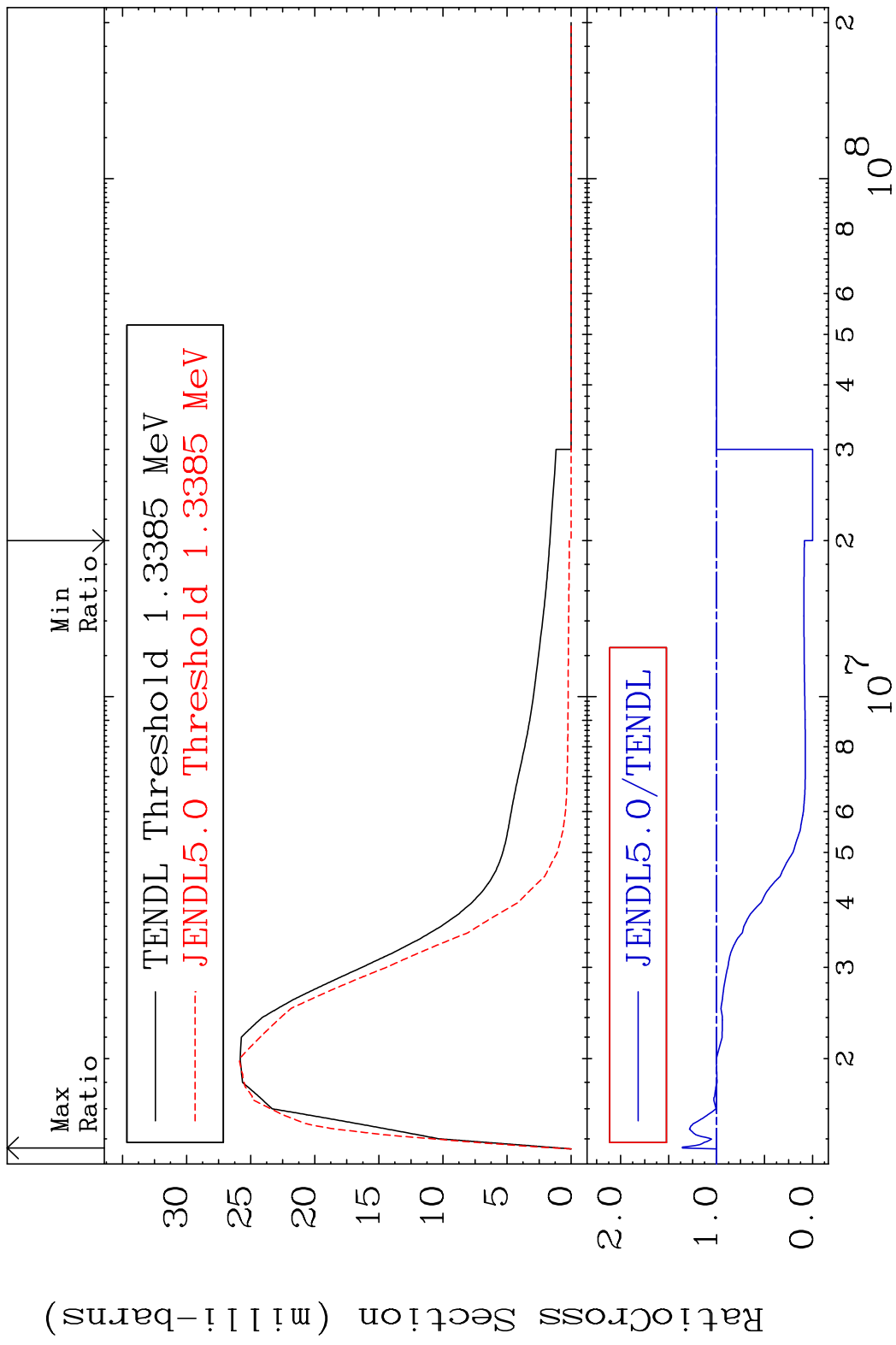
MAT 5119 MT= 56 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 177.4 %



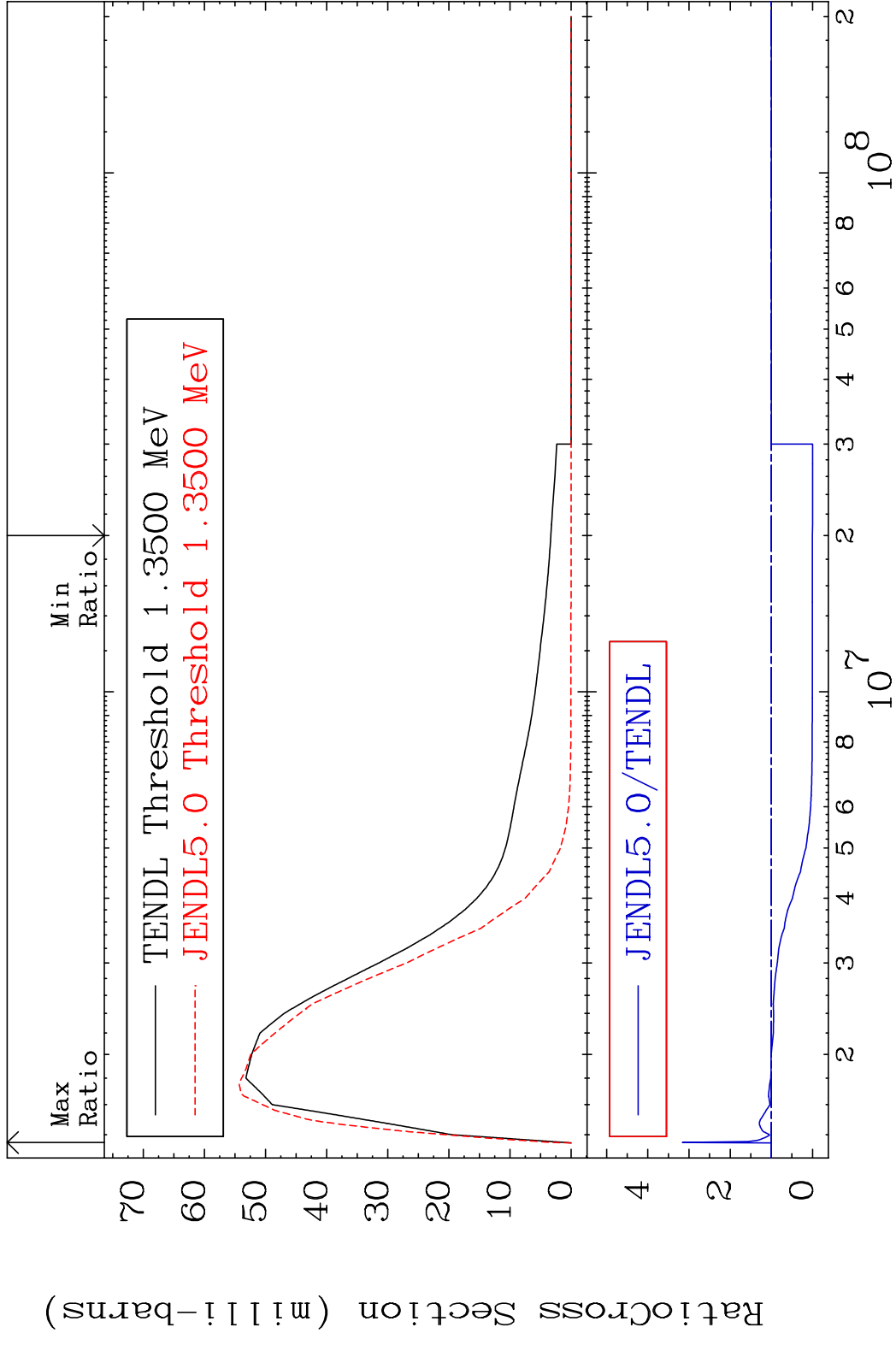
MAT 5119 MT= 57 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 42.61 %



MAT 5119 MT= 58 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 35.70 %

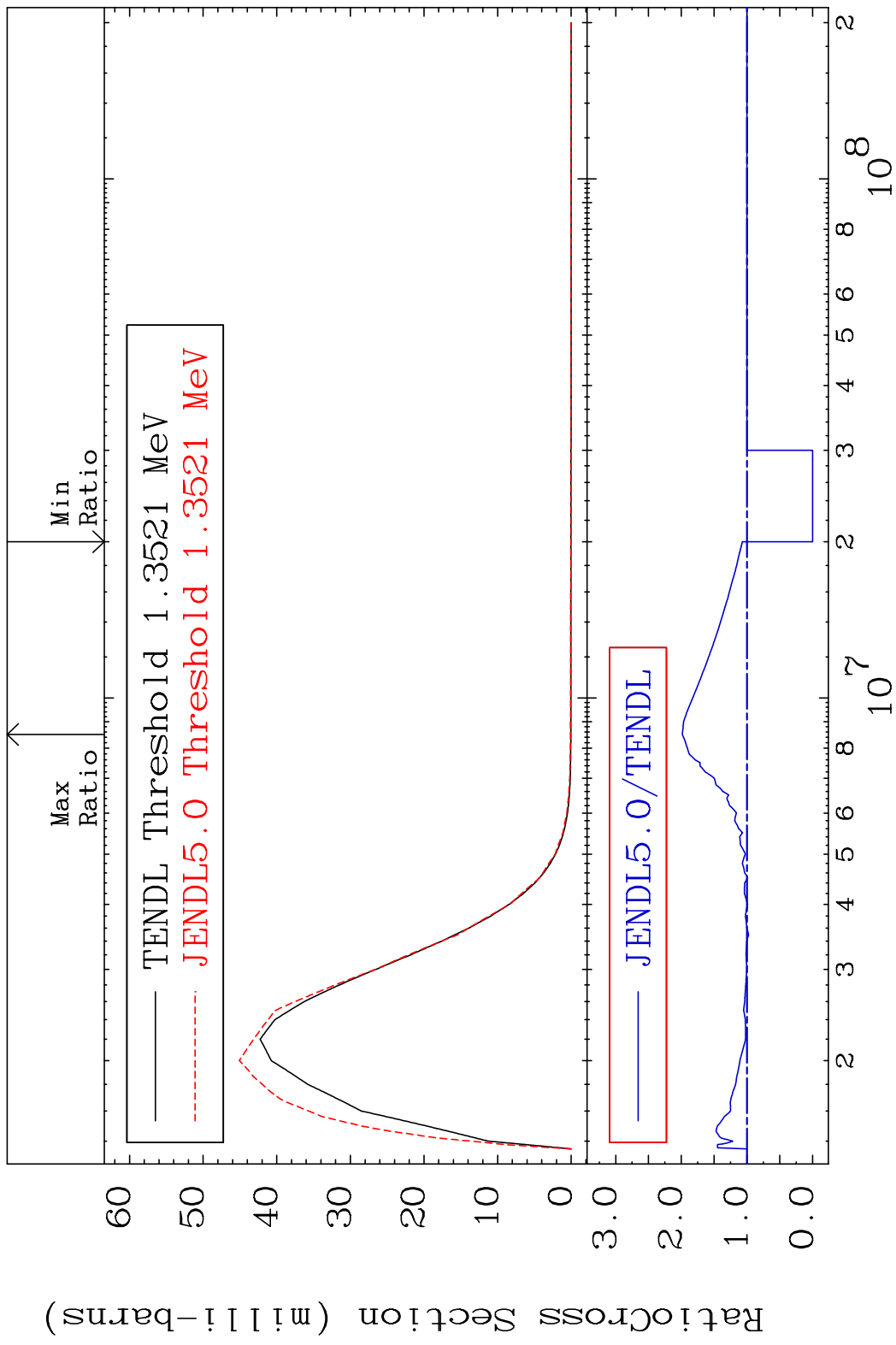


MAT 5119 MT= 59 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 216.1 %

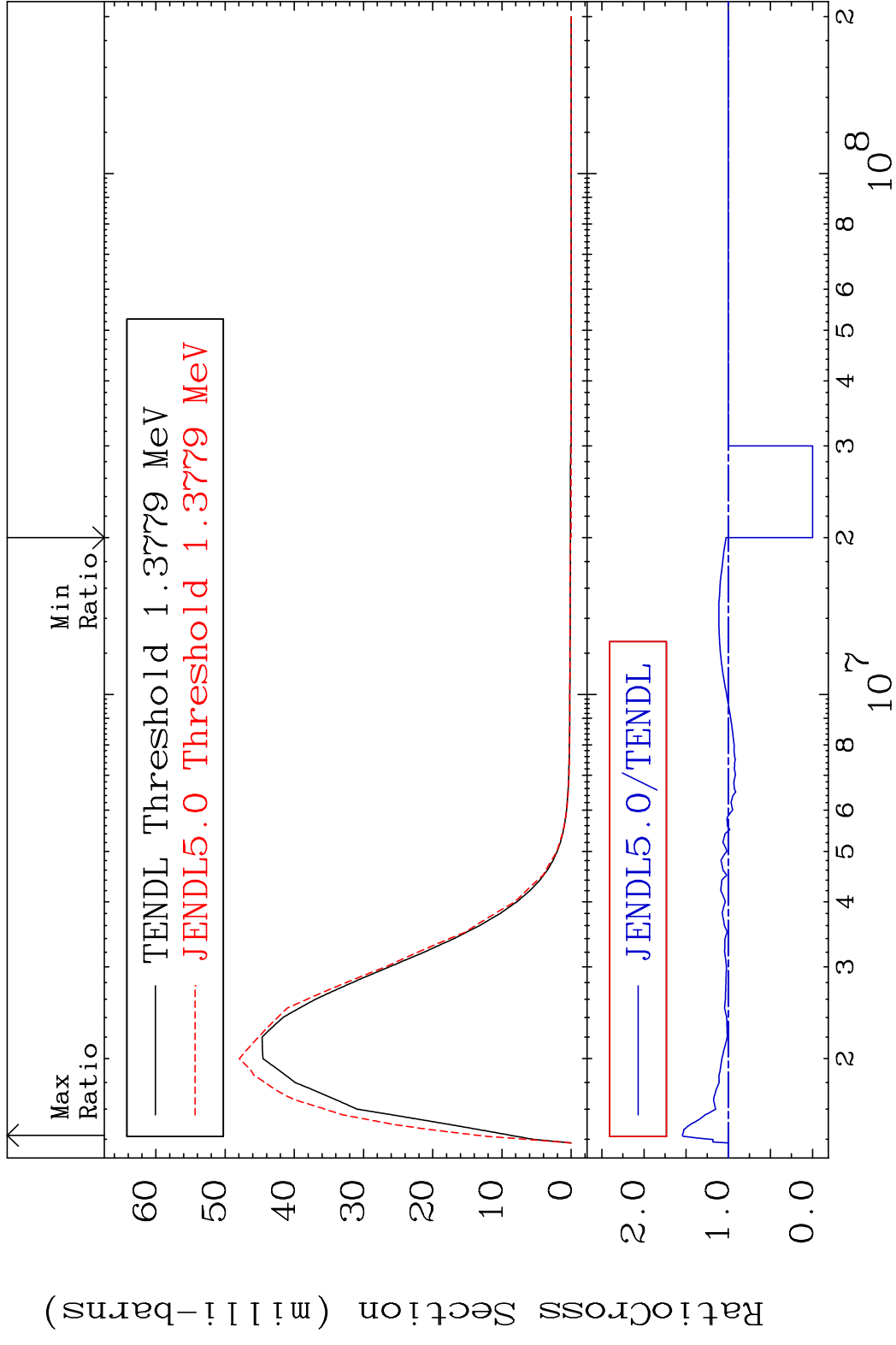


20 Incident Energy (eV) 51-Sb-119

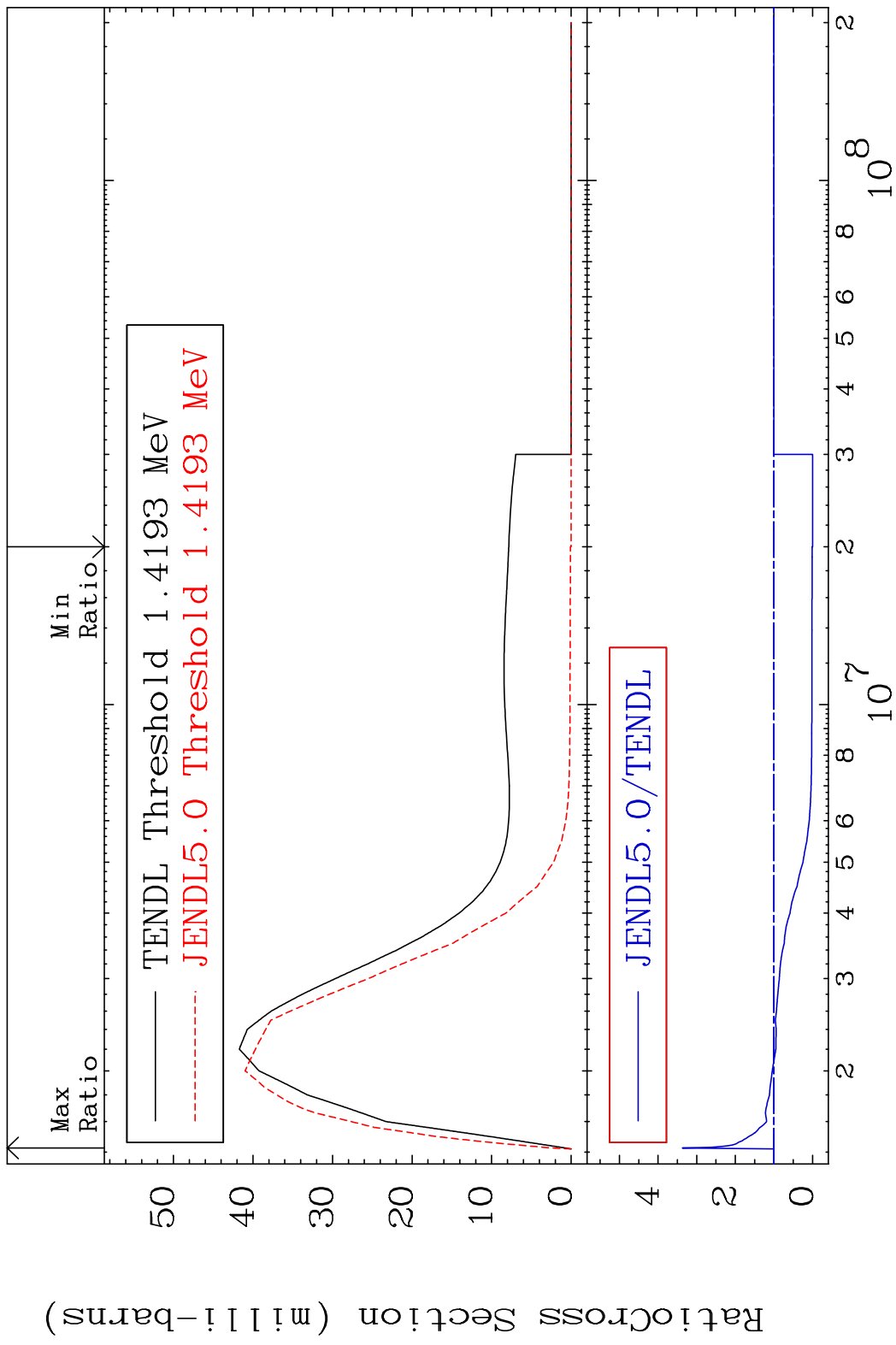
MAT 5119 MT= 60 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 98.42 %



MAT 5119 MT= 61 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 54.48 %

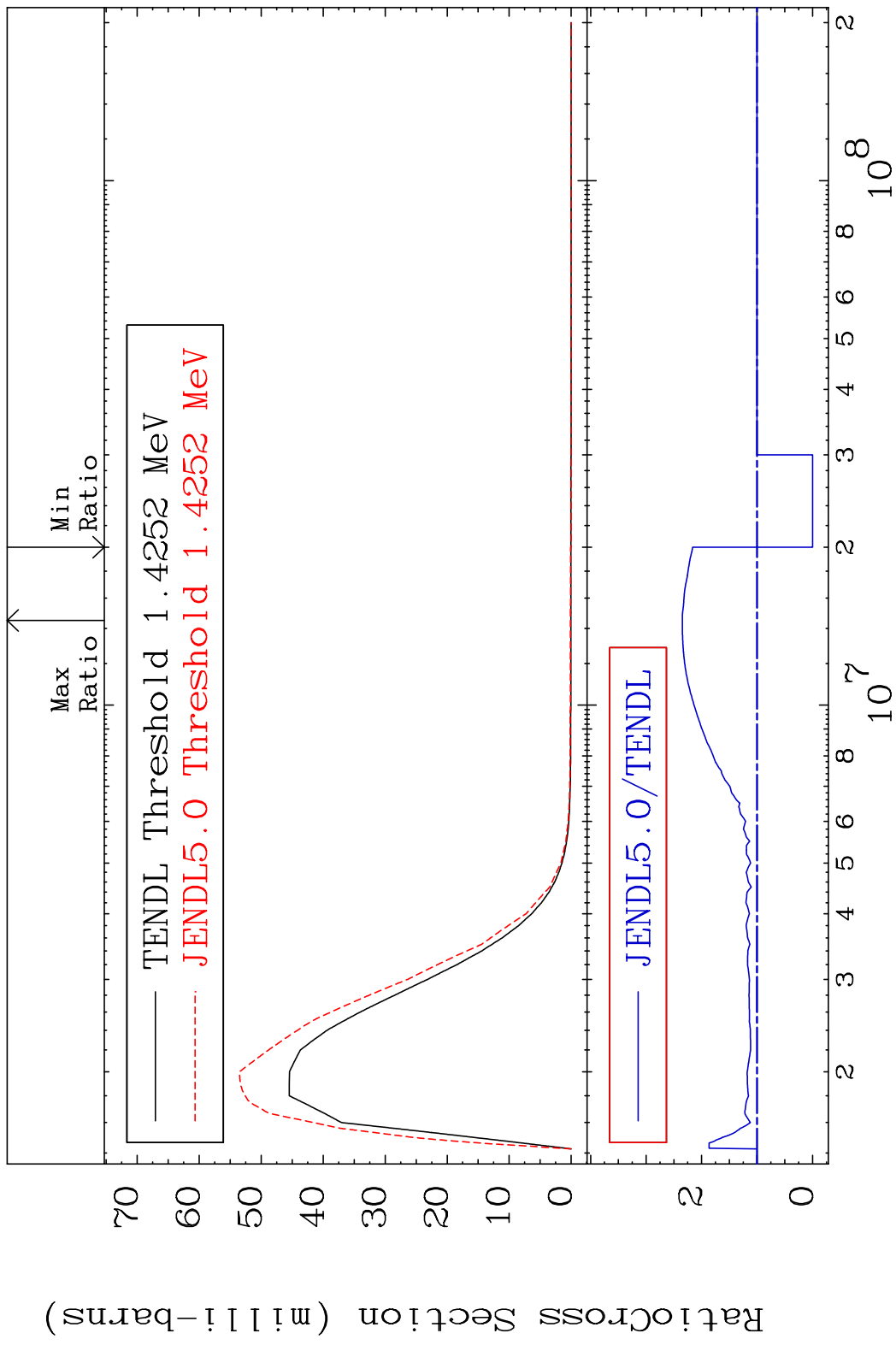


MAT 5119 MT= 62 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 237.2 %

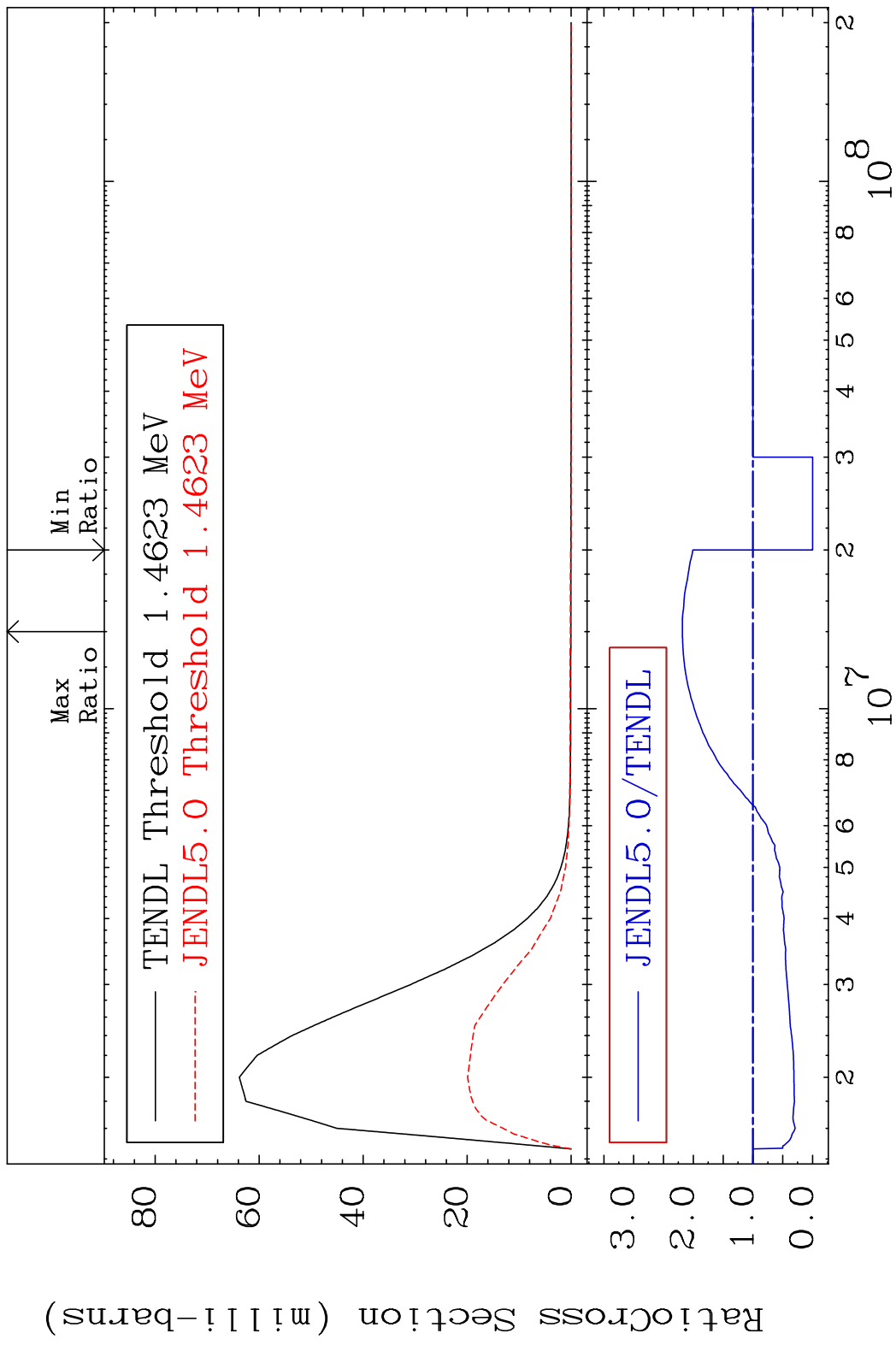




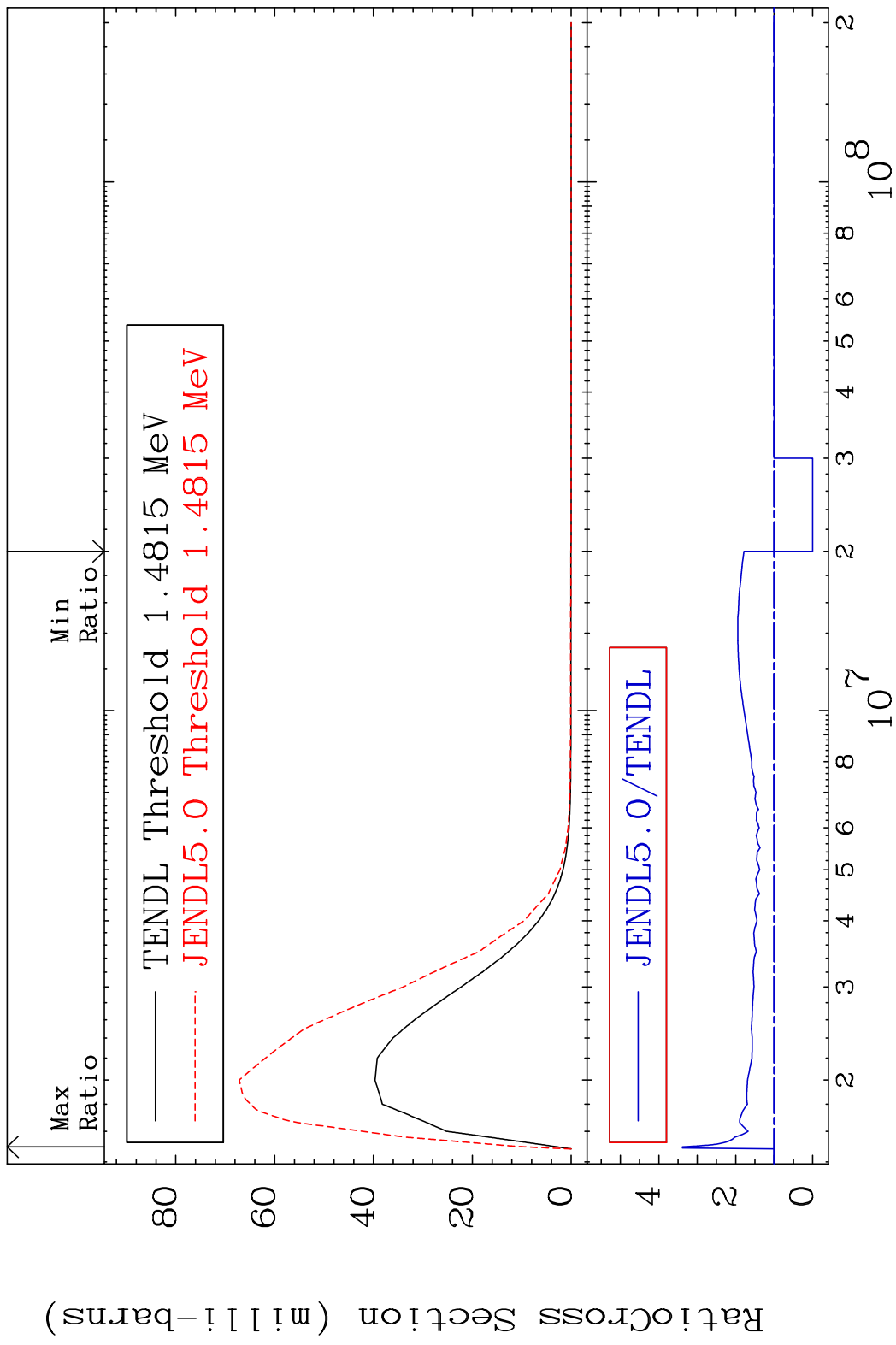
MAT 51119 MT= 63 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 134.7 %



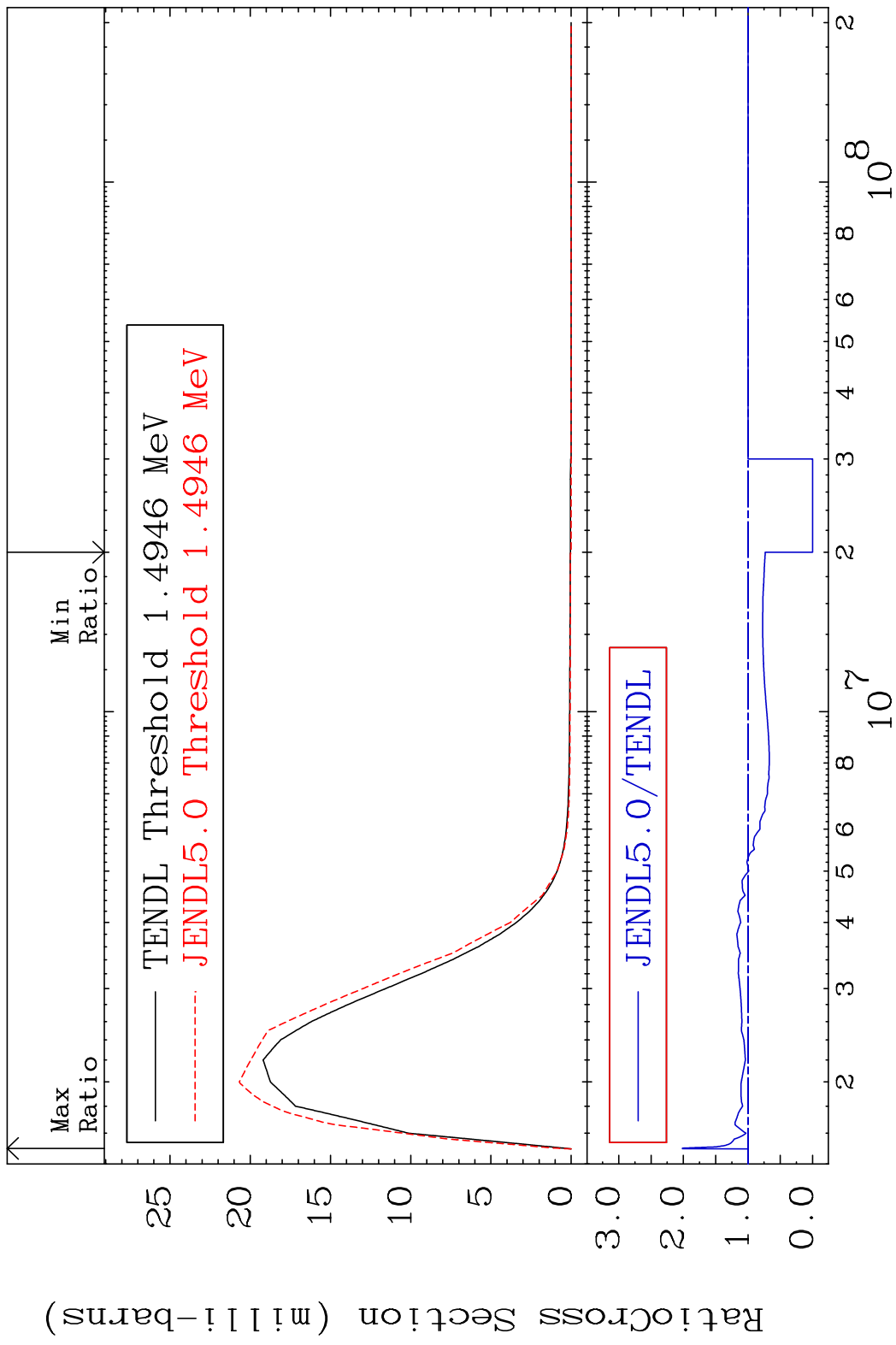
MAT 5119 MT= 64 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 118.3 %



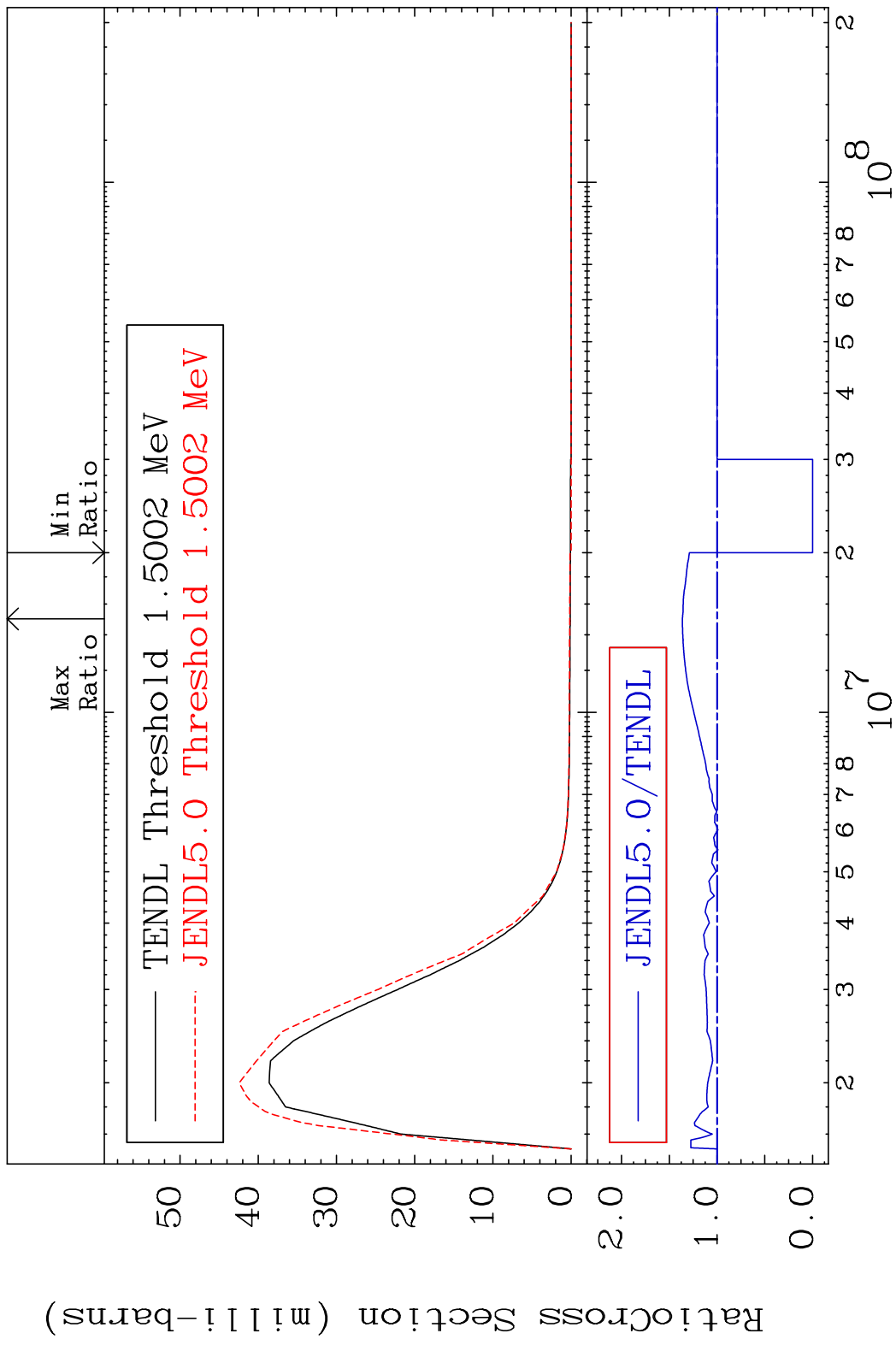
MAT 5119 MT= 65 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 238.8 %



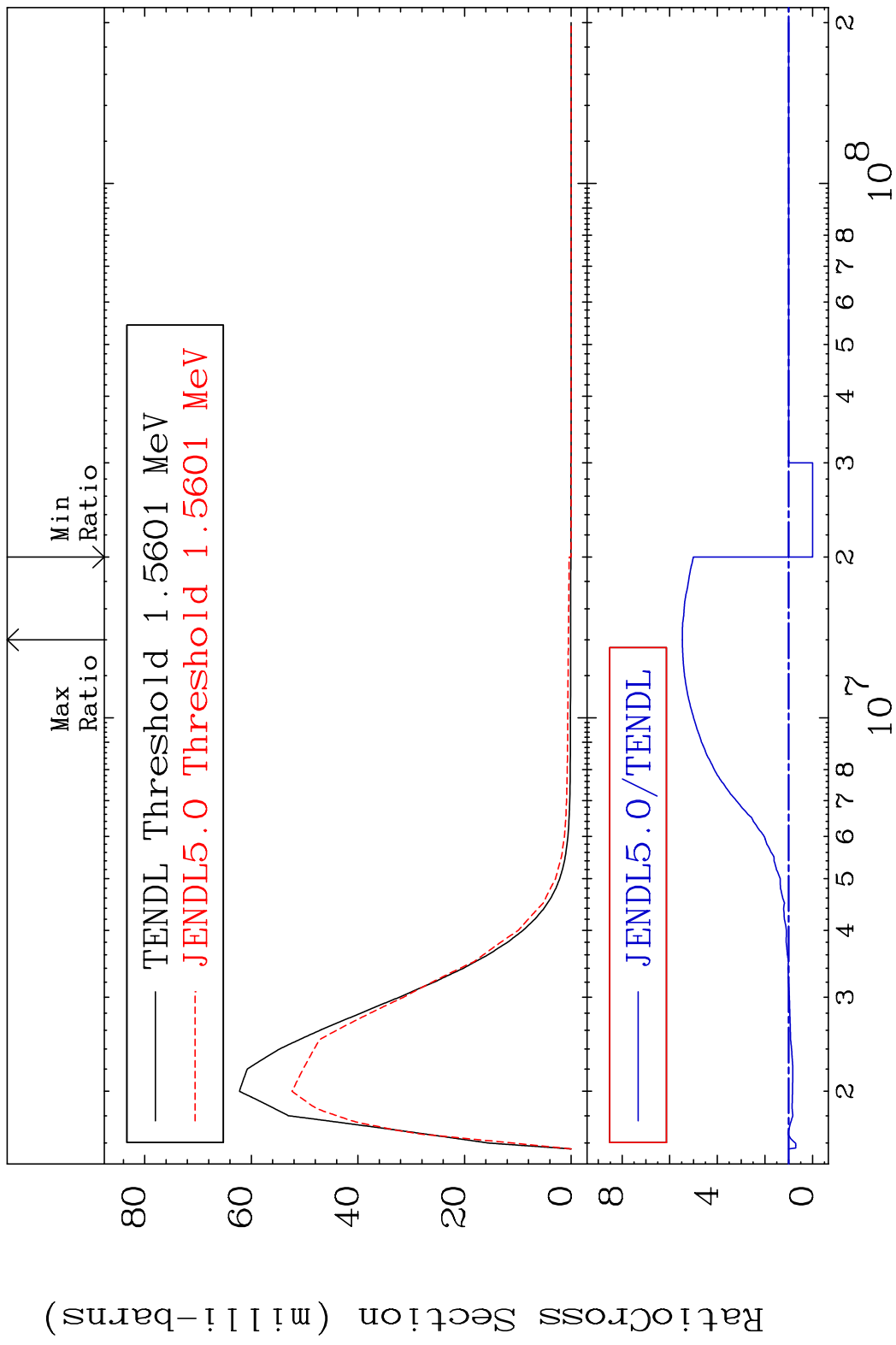
MAT 5119 MT= 66 (n,n') Level 51-Sb-119  
 Cross Section -100.0 To 101.6 %



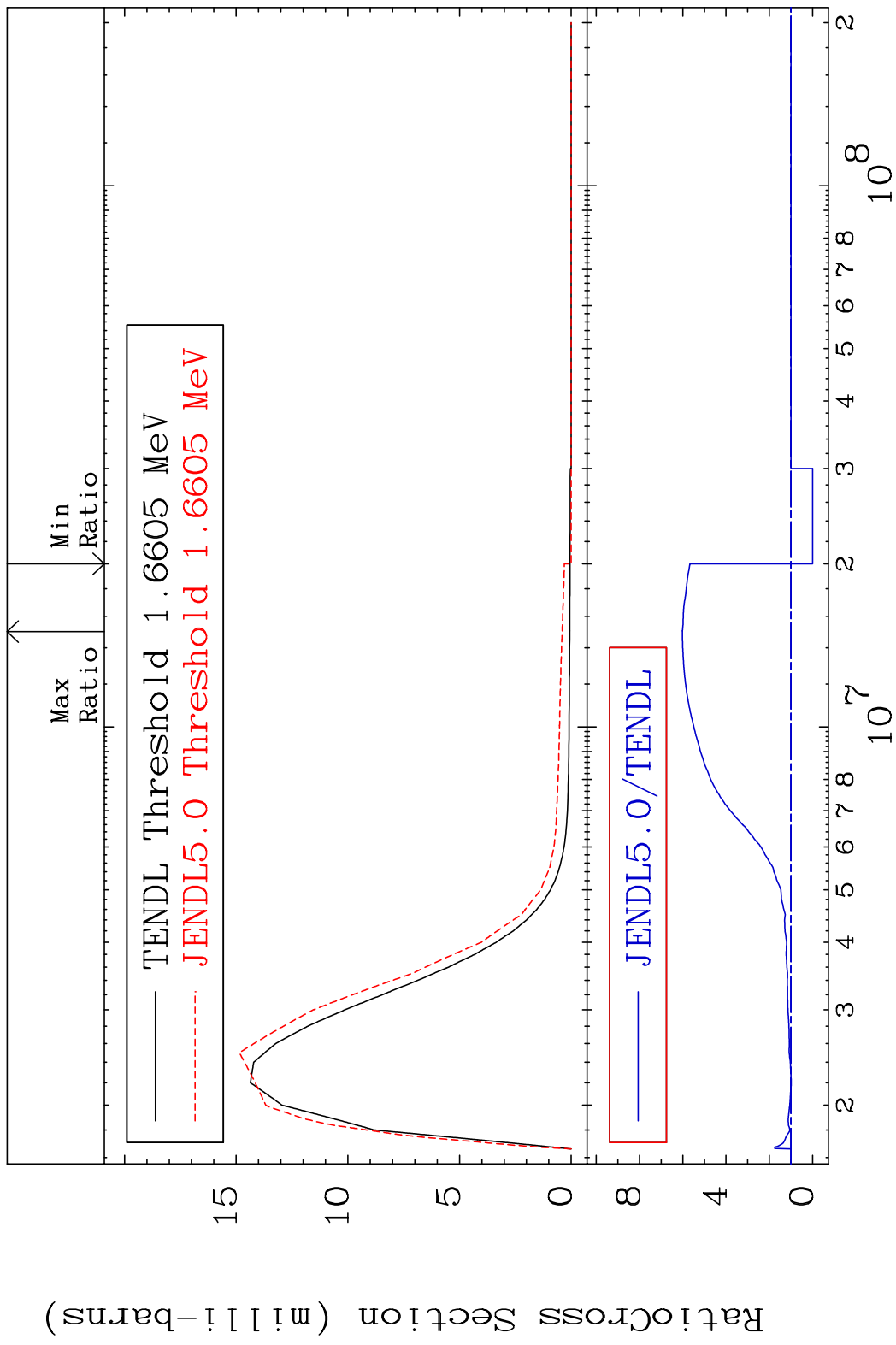
MAT 5119 MT= 67 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 36.37 %



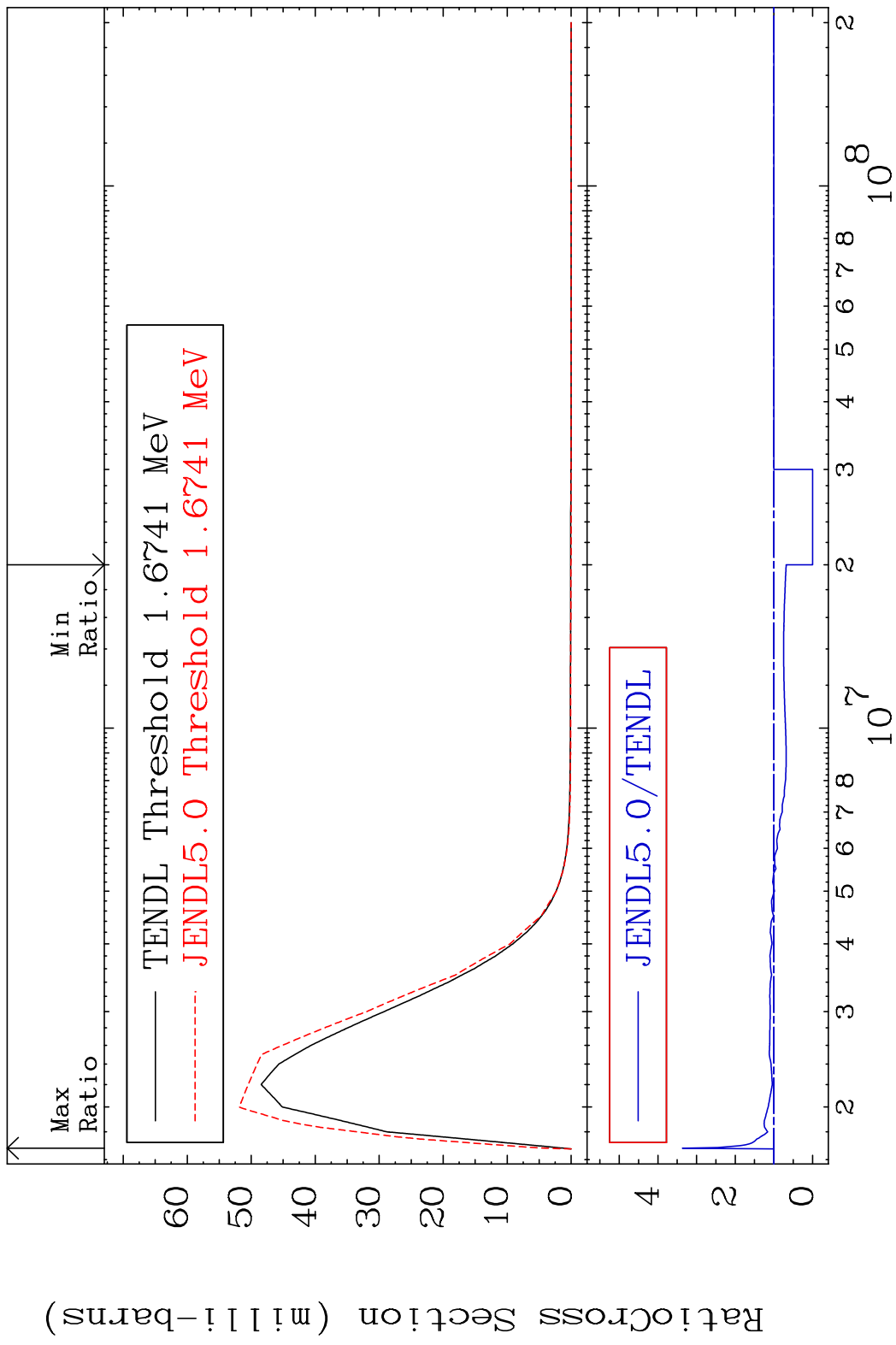
MAT 5119 MT= 68 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 447.0 %



MAT 5119 MT= 69 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 502.0 %

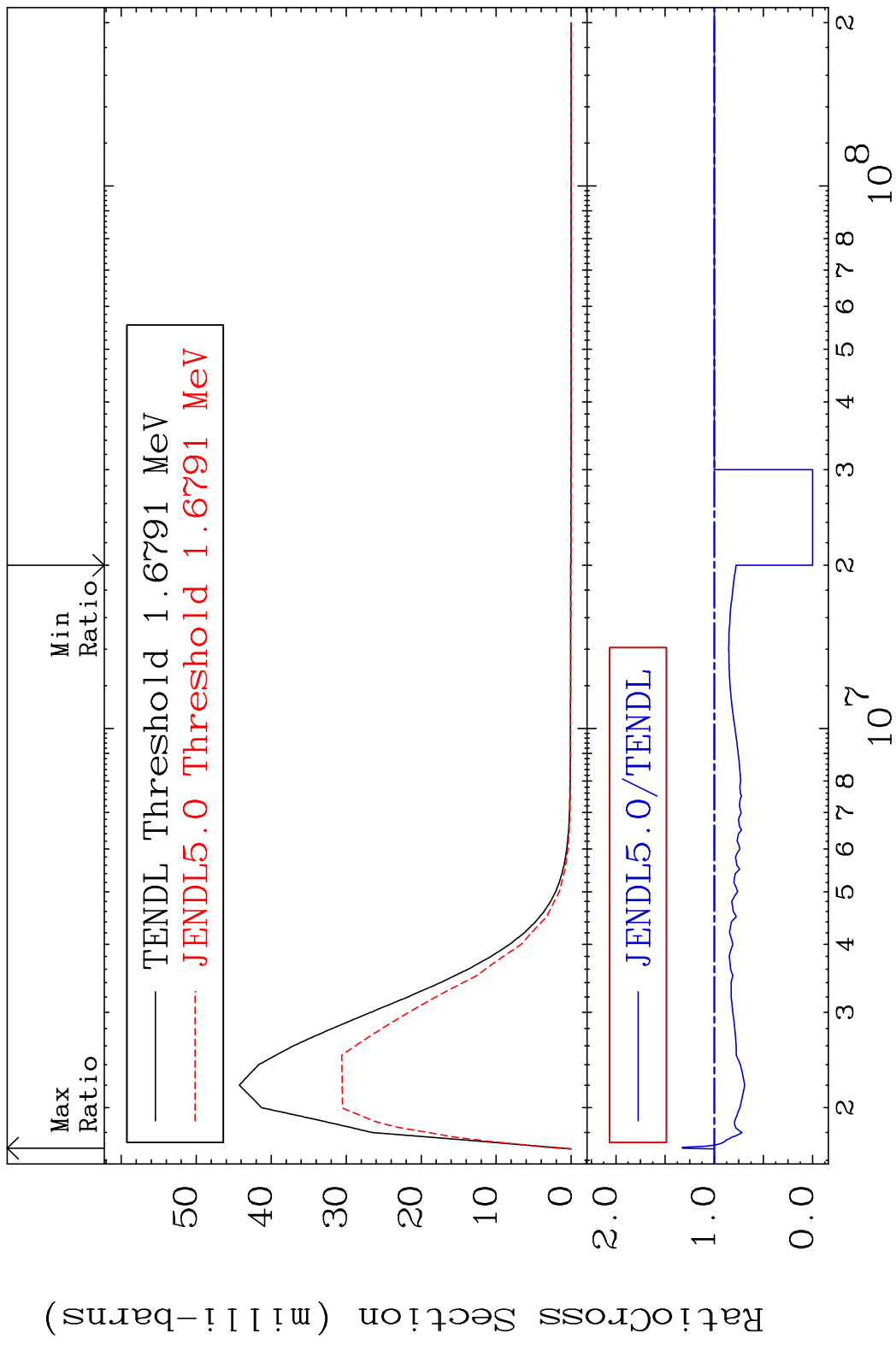


MAT 5119 MT= 70 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 236.8 %

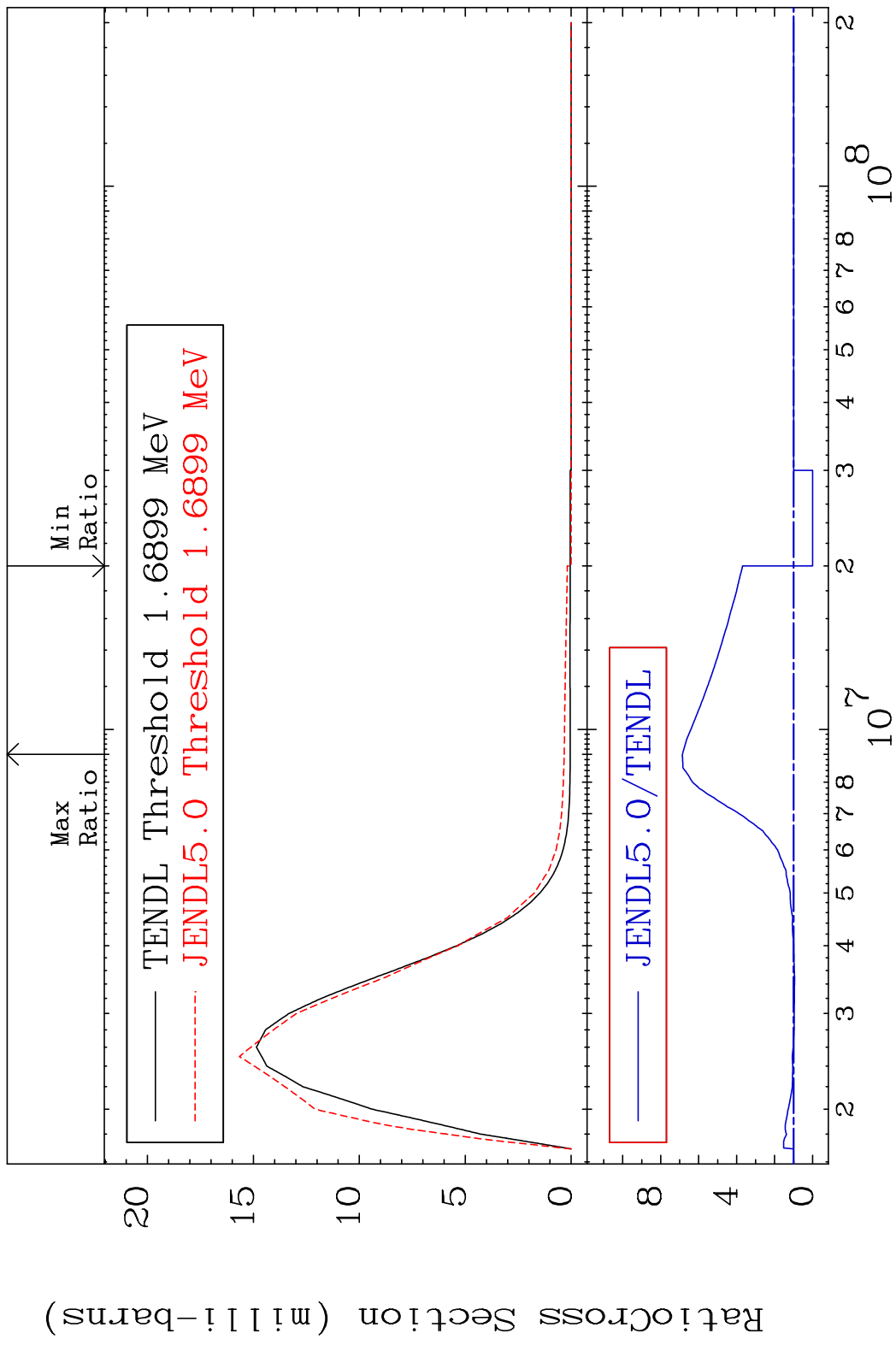




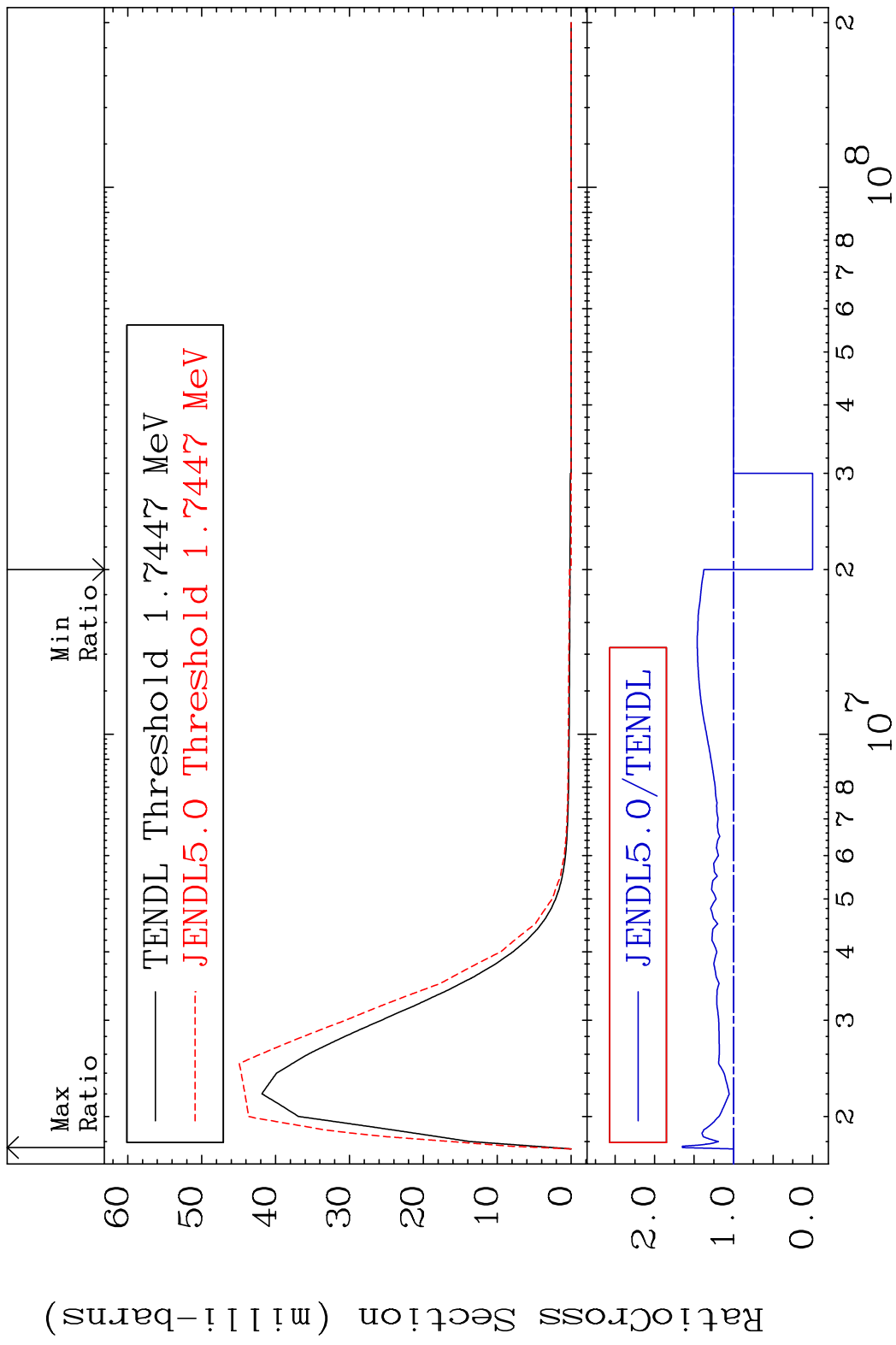
MAT 5119 MT= 71 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 32.44 %



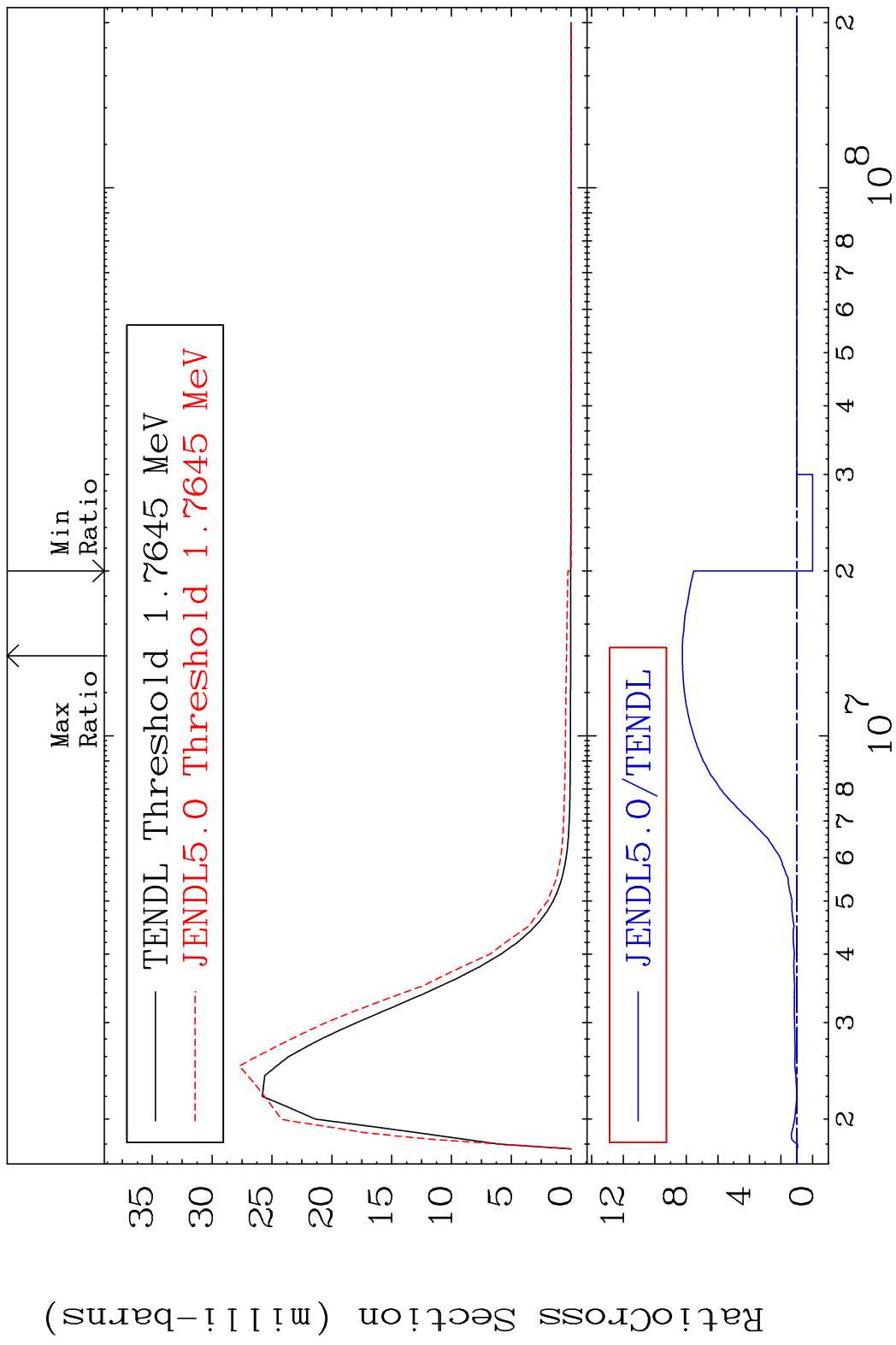
MAT 5119 MT= 72 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 585.9 %



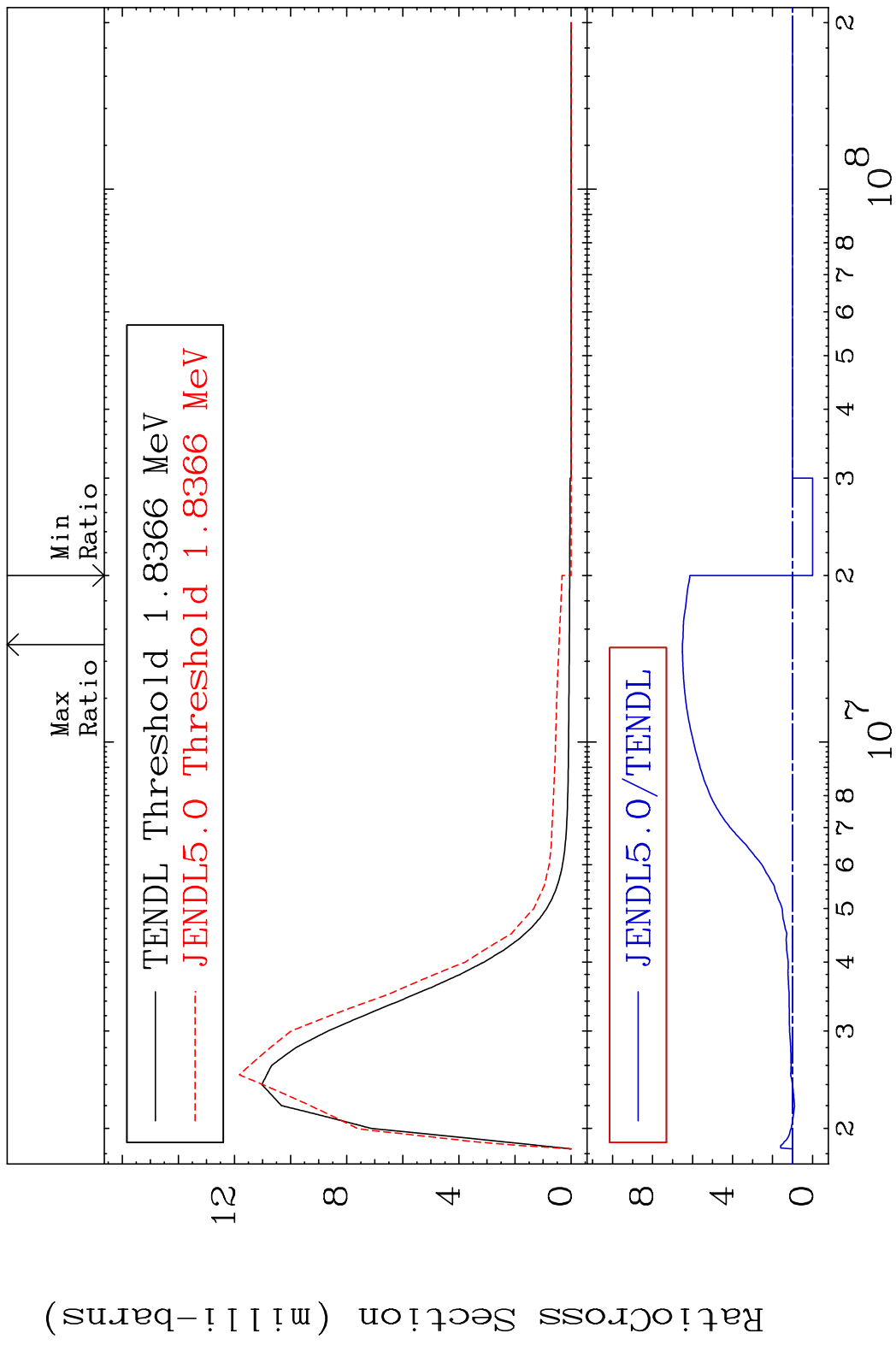
MAT 5119 MT= 73 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 64.88 %



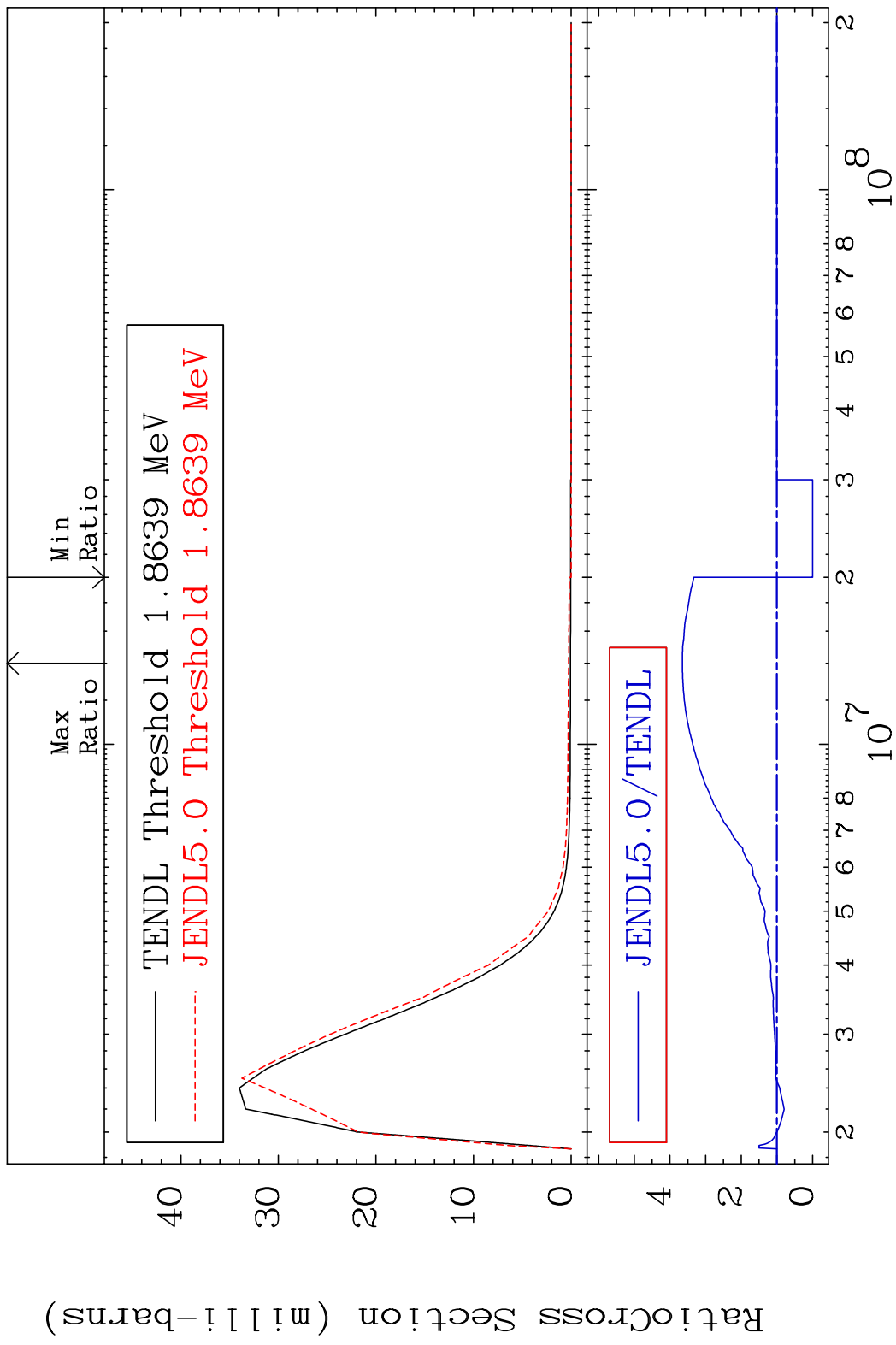
MAT 5119 MT= 74 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 725.4 %



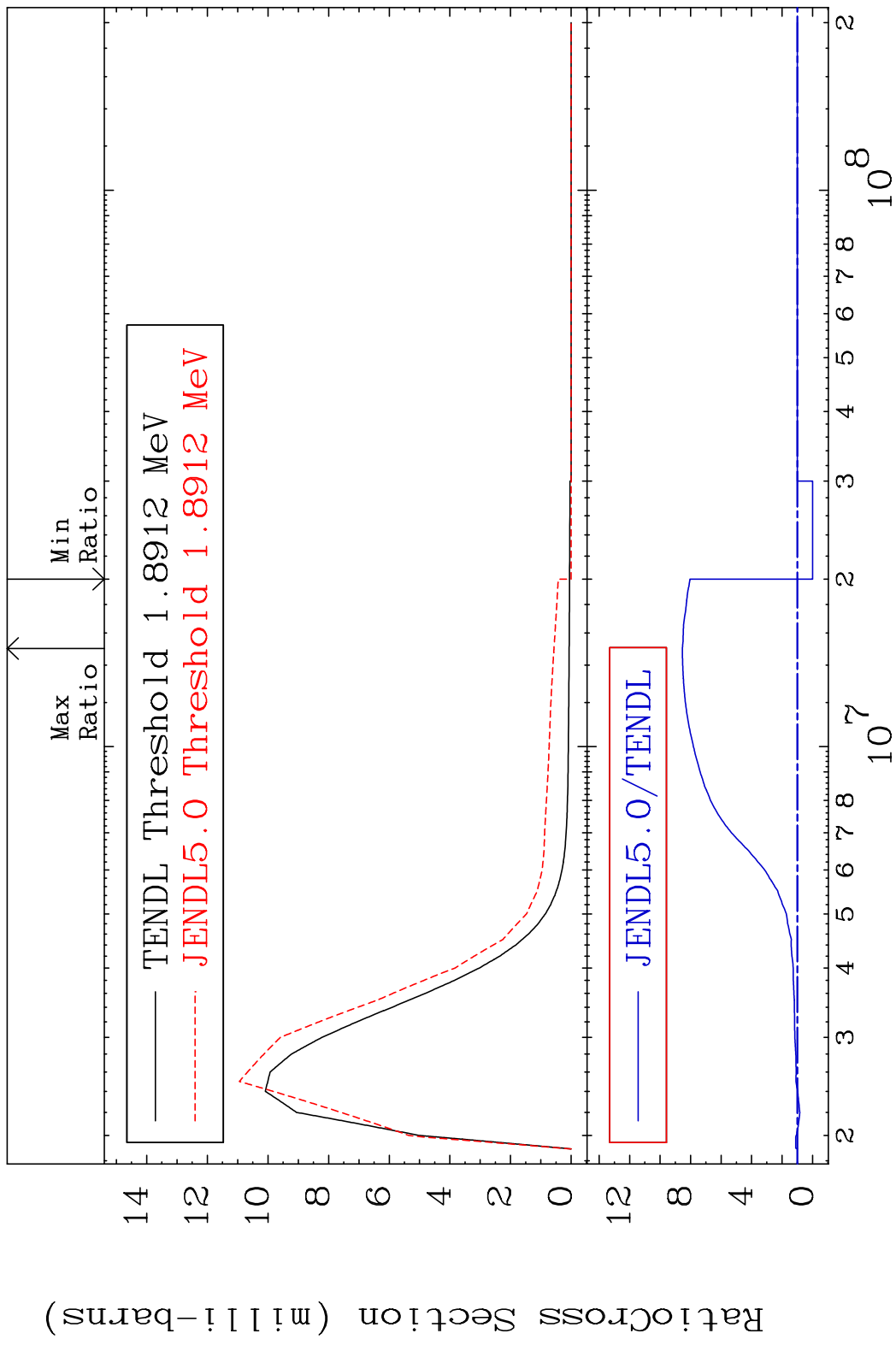
MAT 5119 MT= 75 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 551.1 %



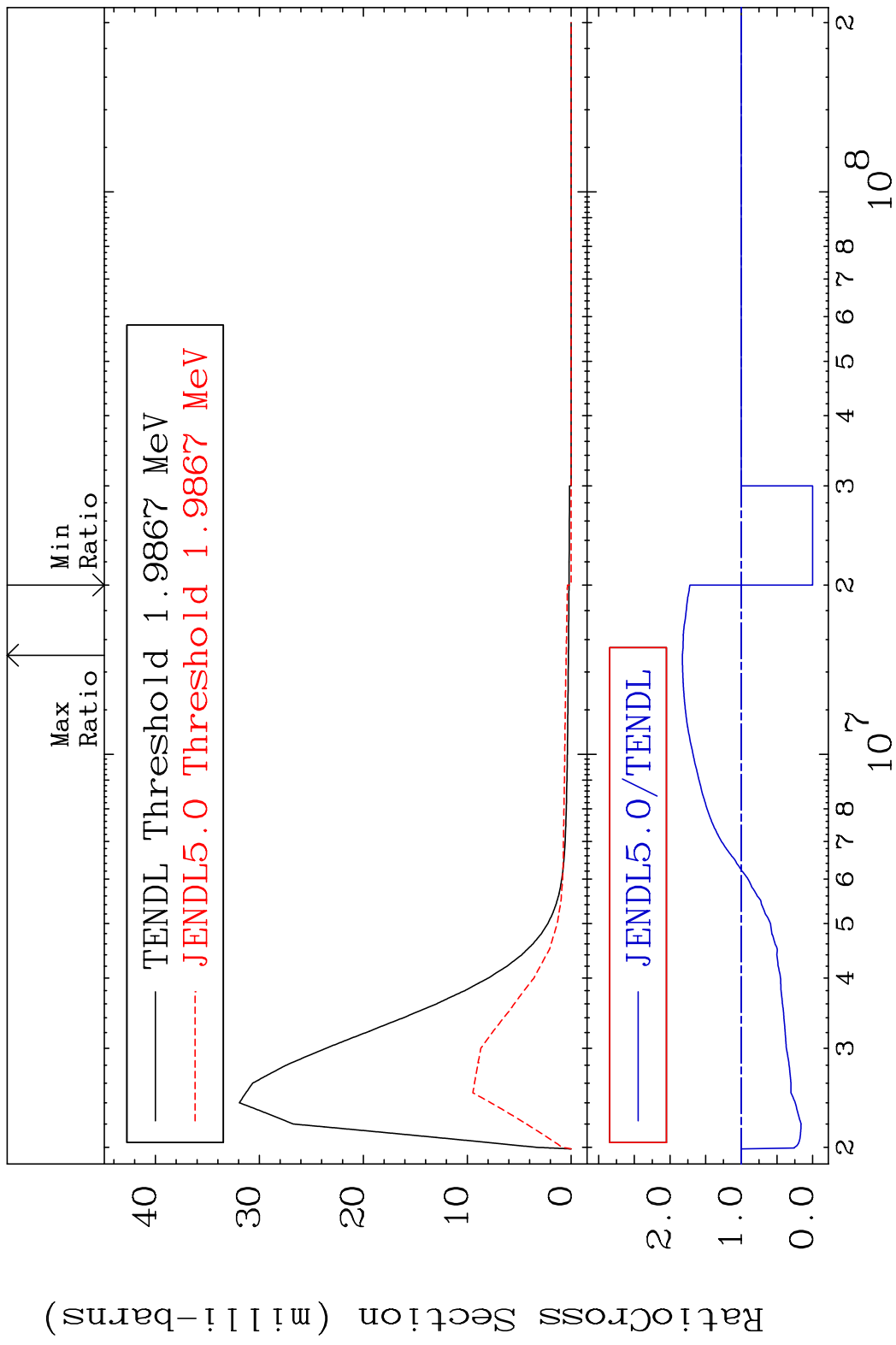
MAT 5119 MT= 76 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 265.1 %



MAT 5119 MT= 77 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 754.1 %



MAT 5119 MT= 78 (n, n') Level 51-Sb-119  
 Cross Section -100.0 To 82.67 %



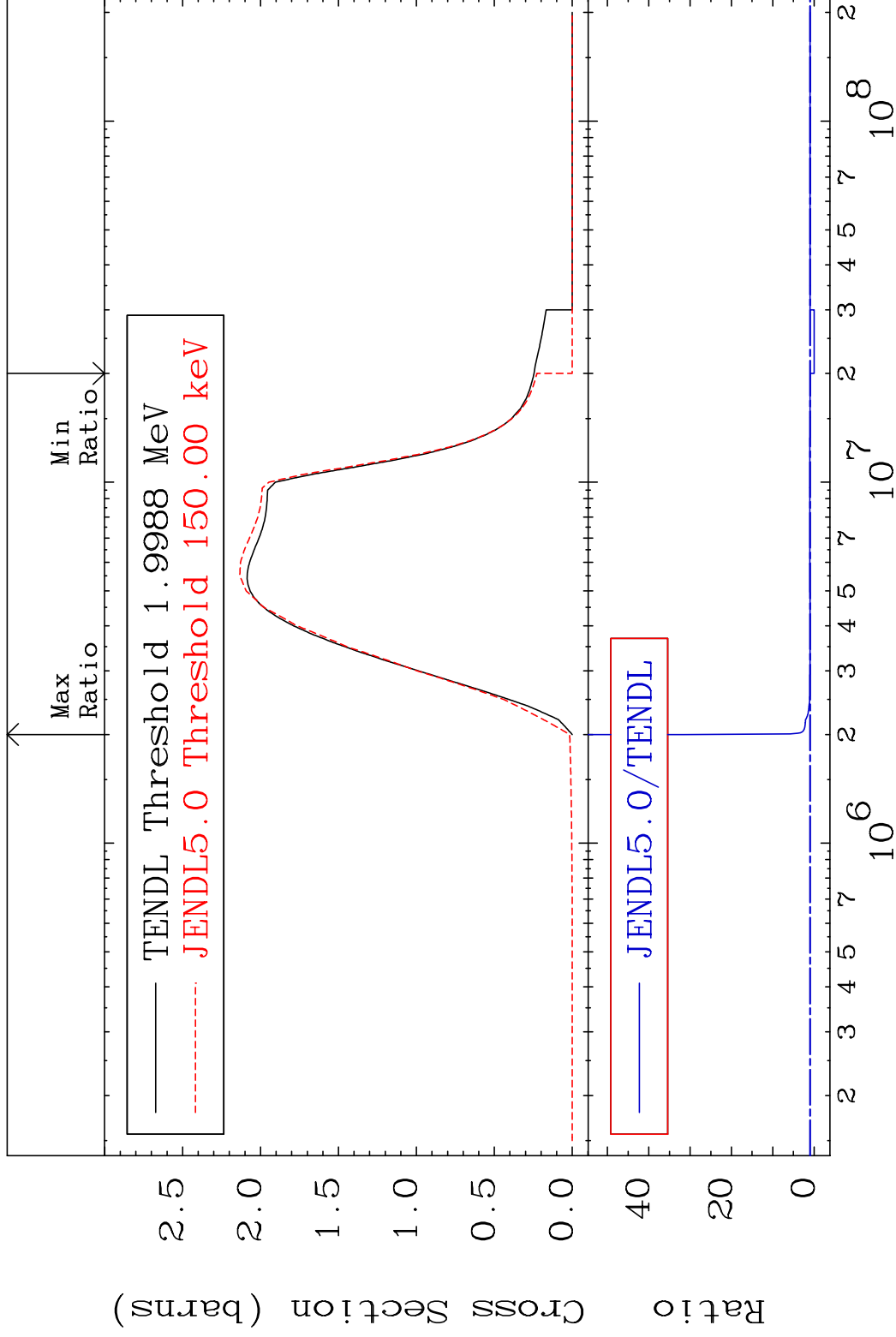


MAT 5119

(n,n') Continuum

51-Sb-119

Cross Section -100.0 To 3056. %



40

Incident Energy (eV)

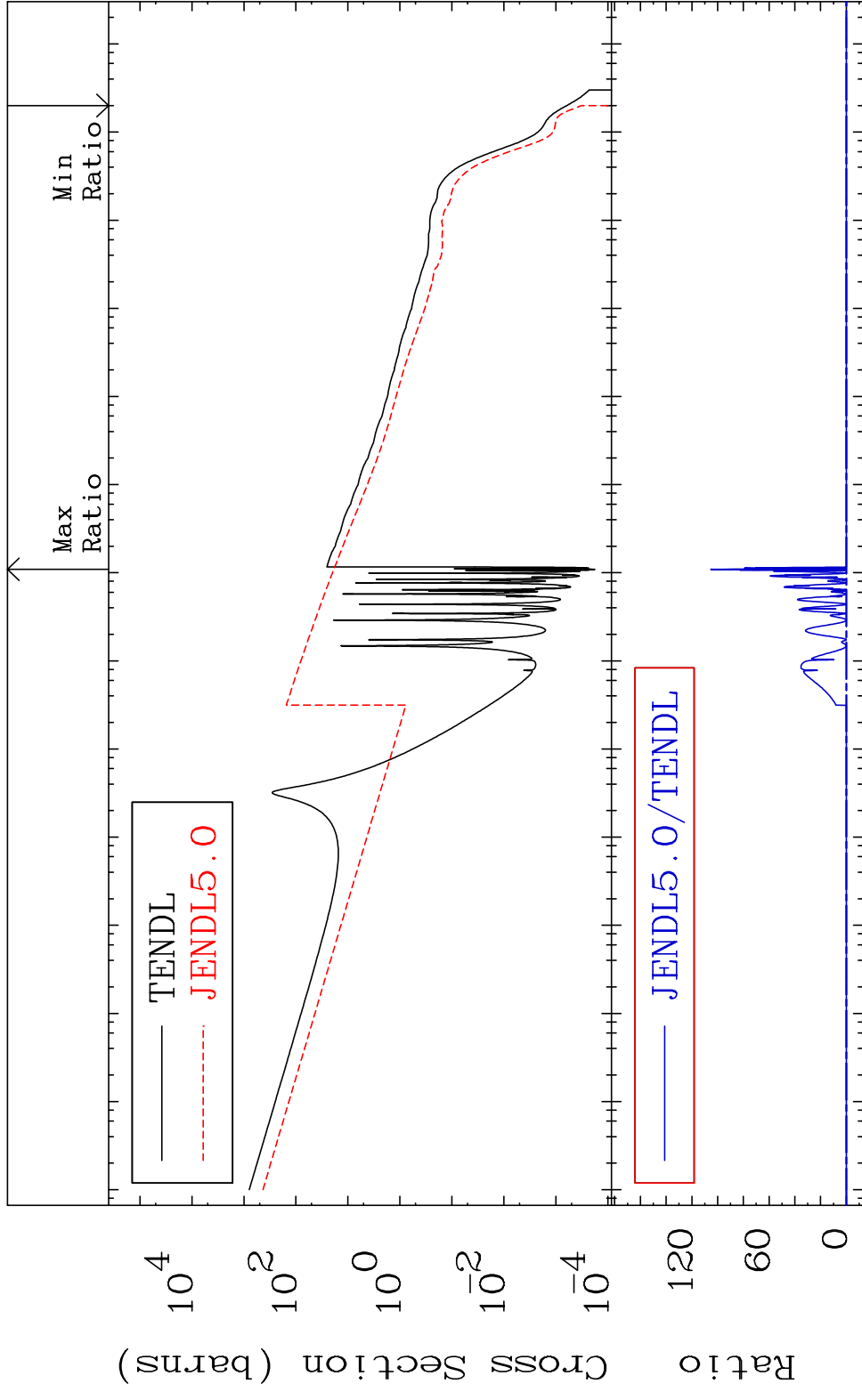
51-Sb-119

MAT 5119

51-Sb-119

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %



41

Incident Energy (eV)

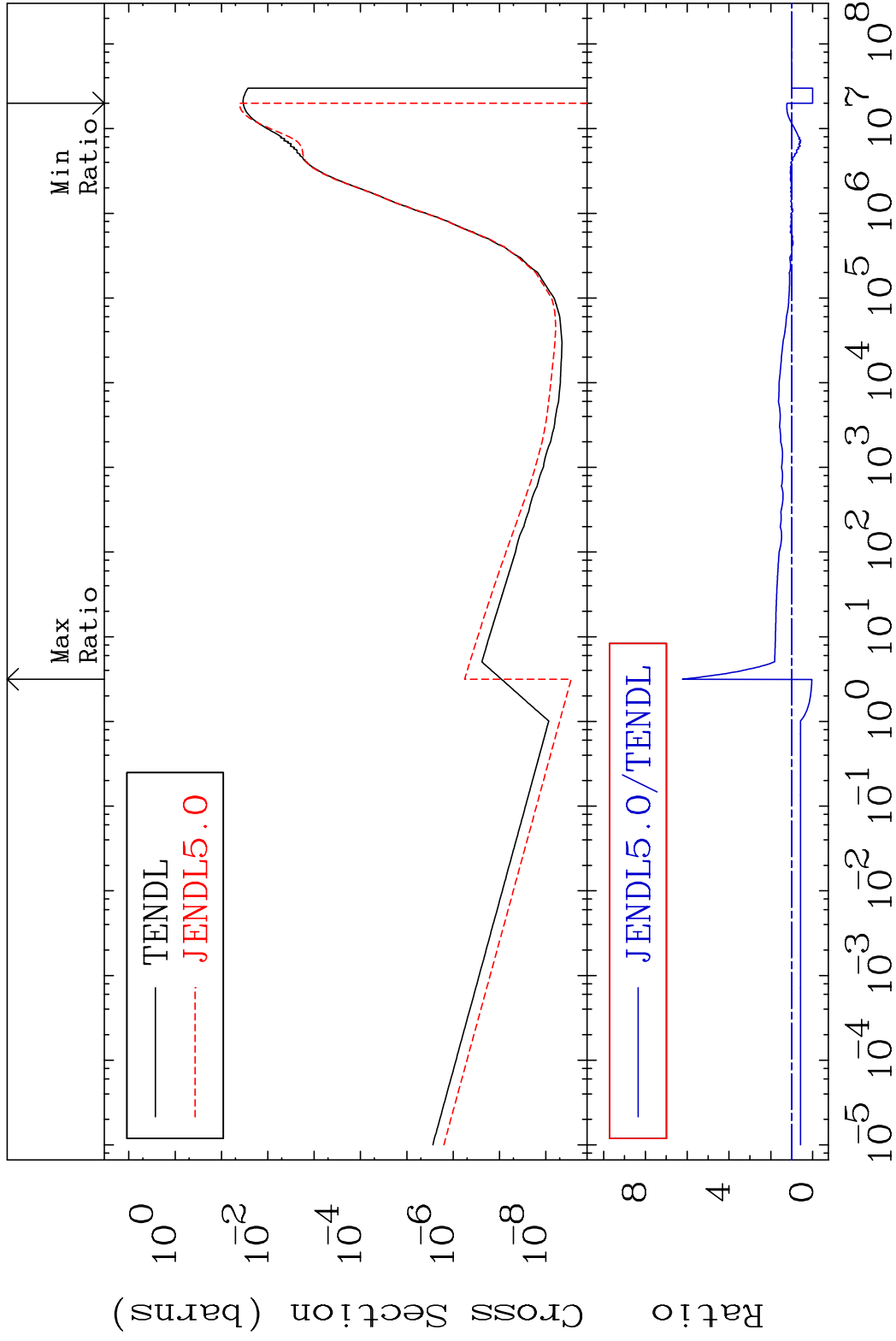
51-Sb-119

MAT 5119

(n,p)

51-Sb-119

Cross Section -100.0 To 523.2 %



42

Incident Energy (eV)

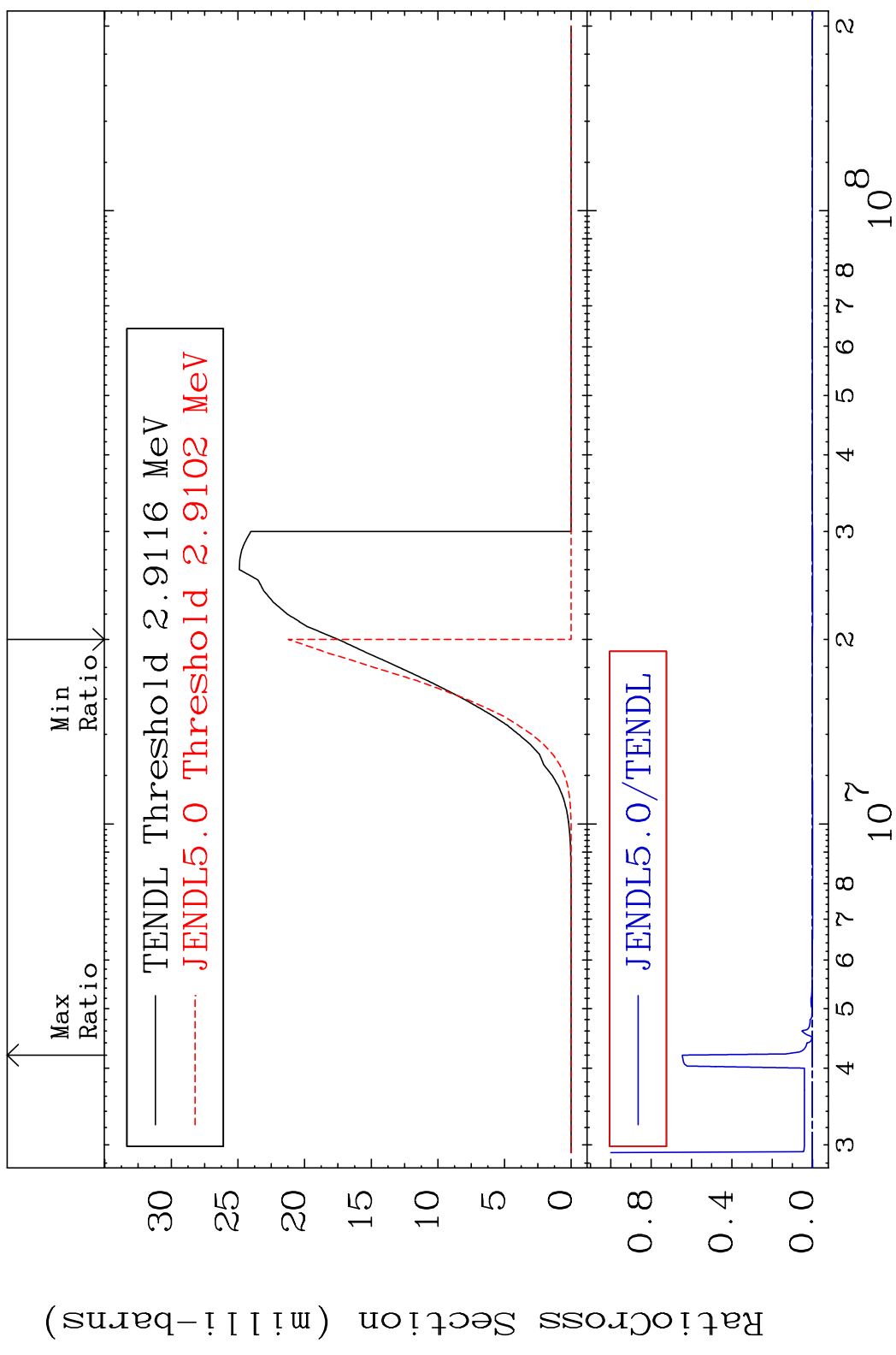
51-Sb-119

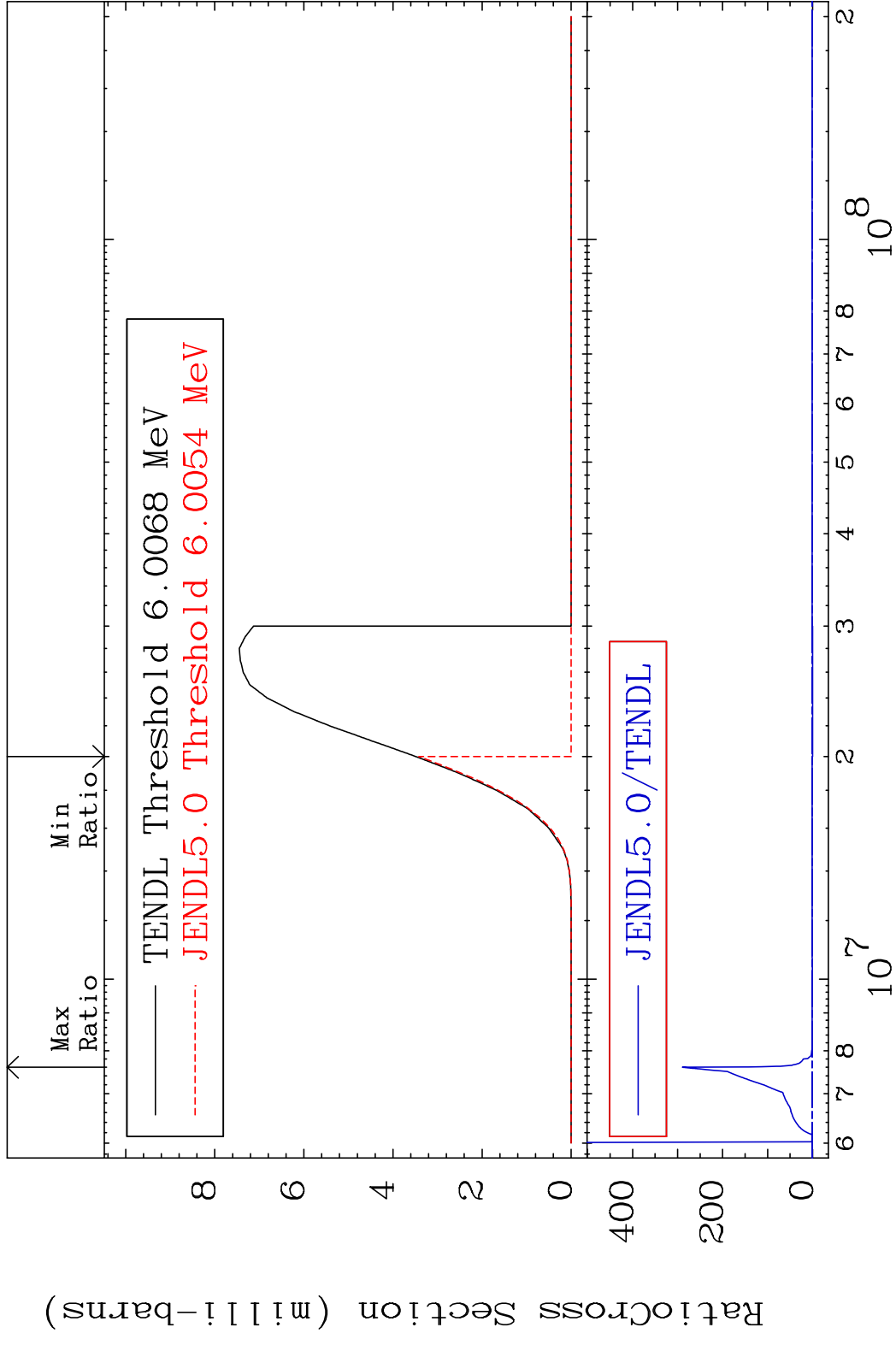
MAT 5119

(n,d)

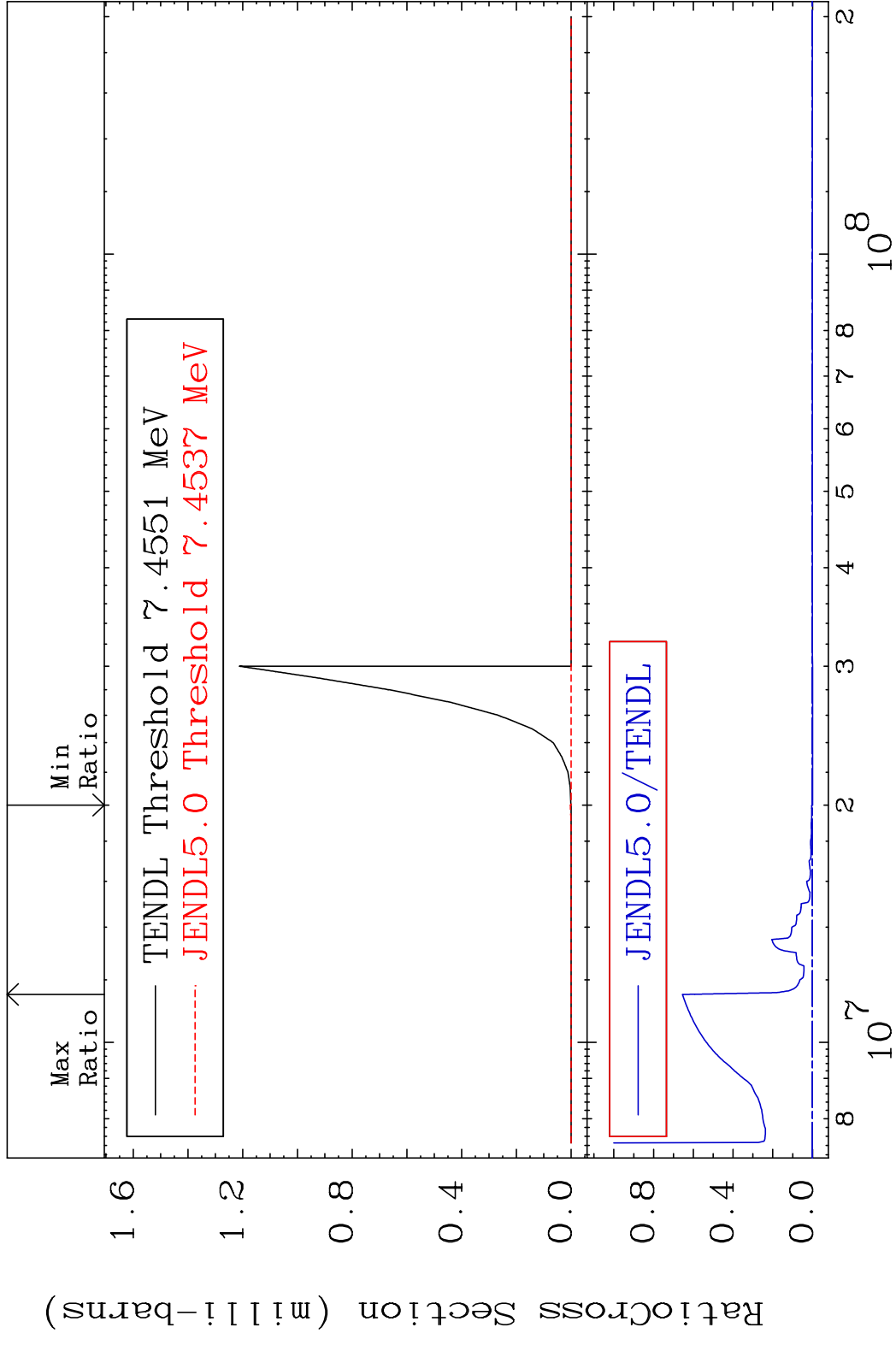
51-Sb-119

Cross Section -100.0 To 9999. %





Cross Section -100.0 To 9999. %

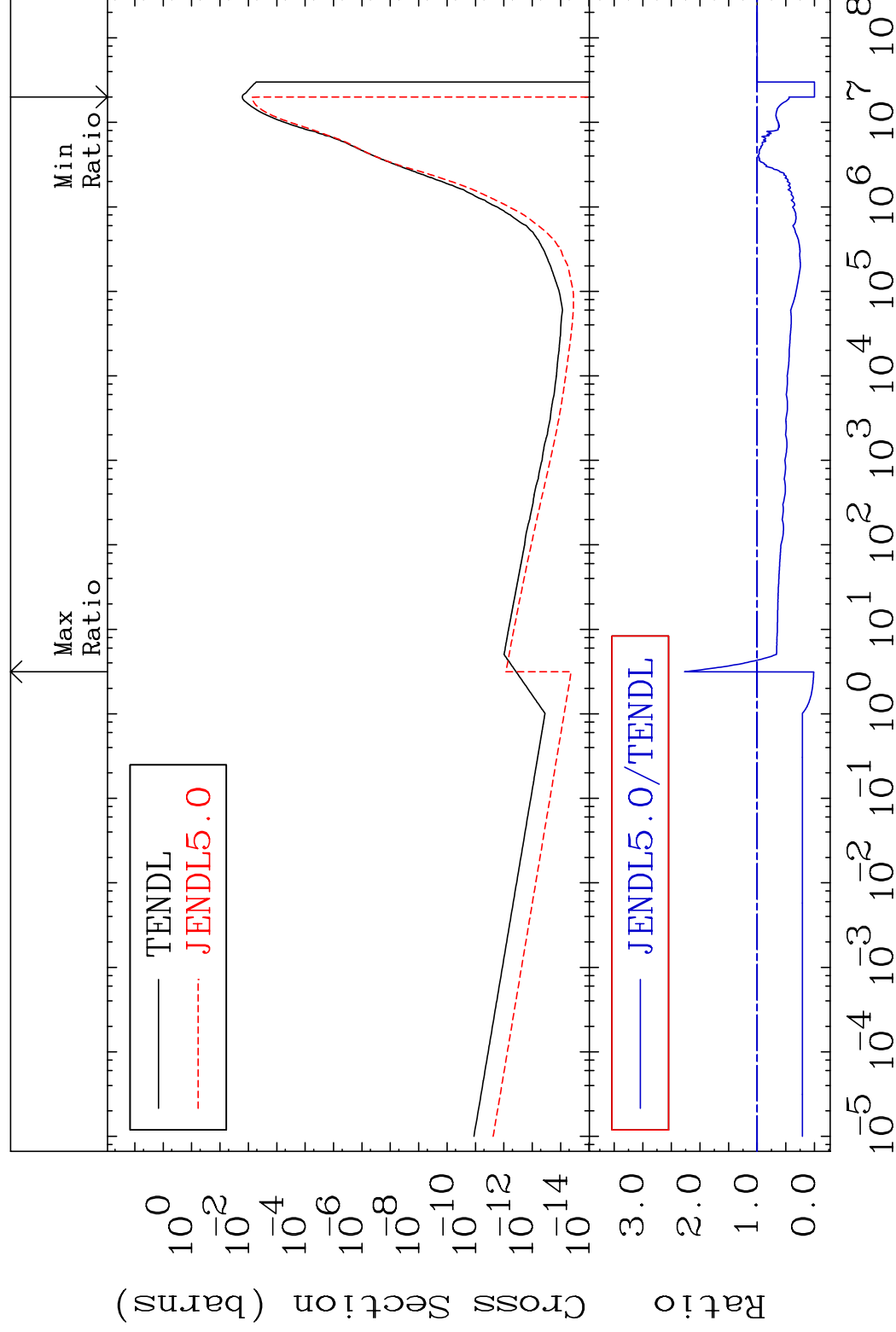


MAT 51119

(n,  $\alpha$ )

51-Sb-119

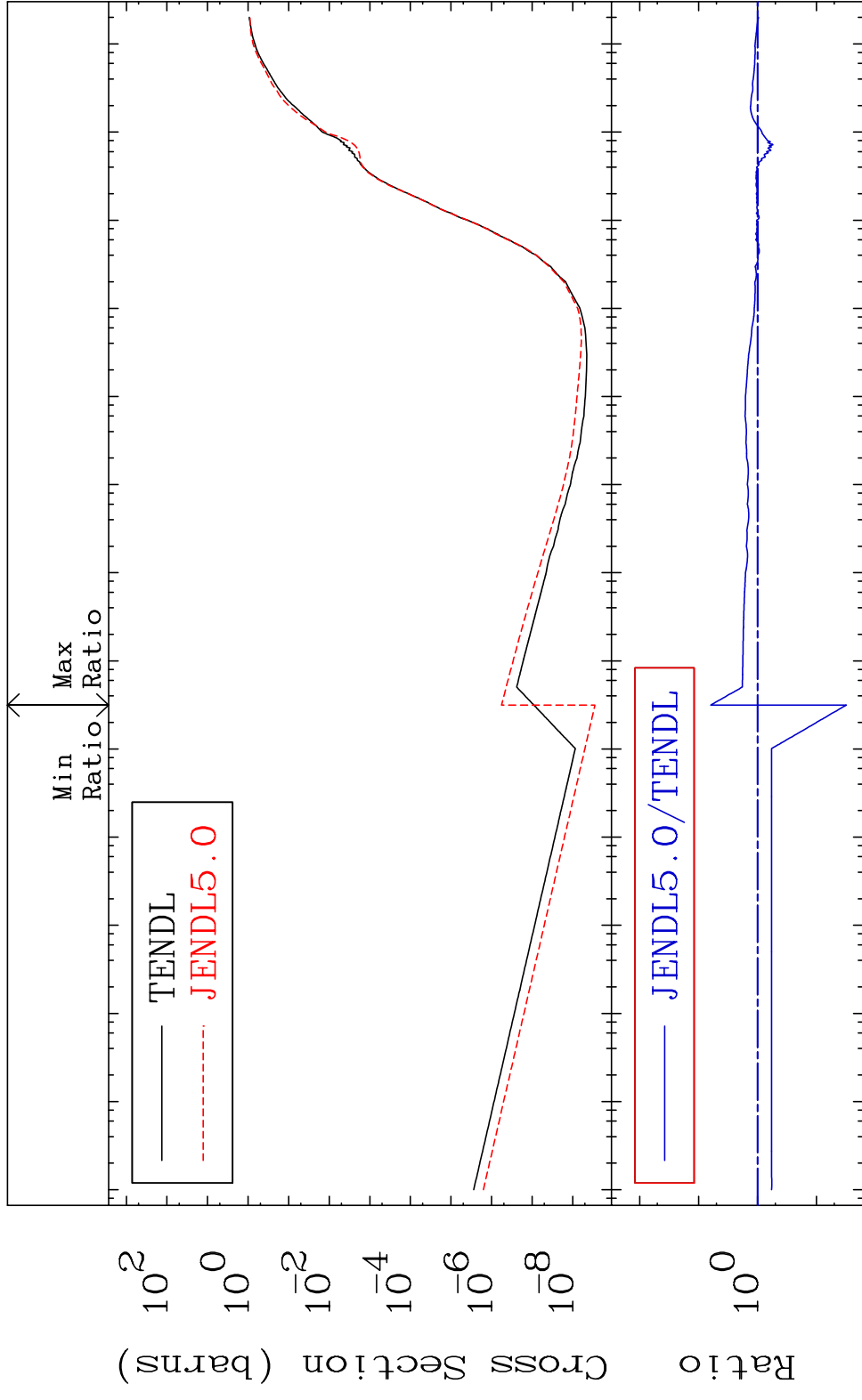
Cross Section -100.0 To 127.1 %



MAT 51119

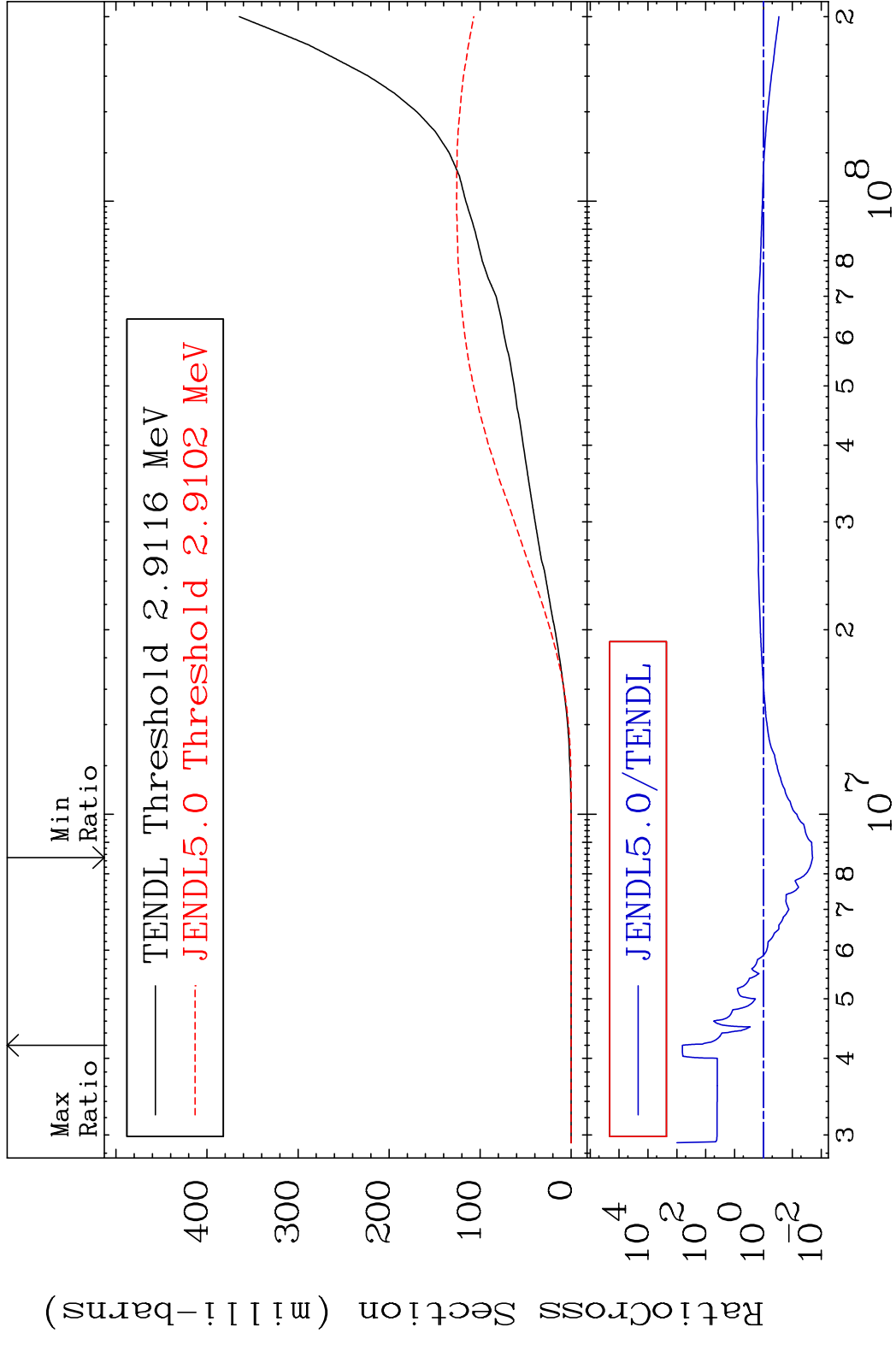
Hydrogen Production  
Cross Section -96.87 To 523.2 %

51-Sb-119



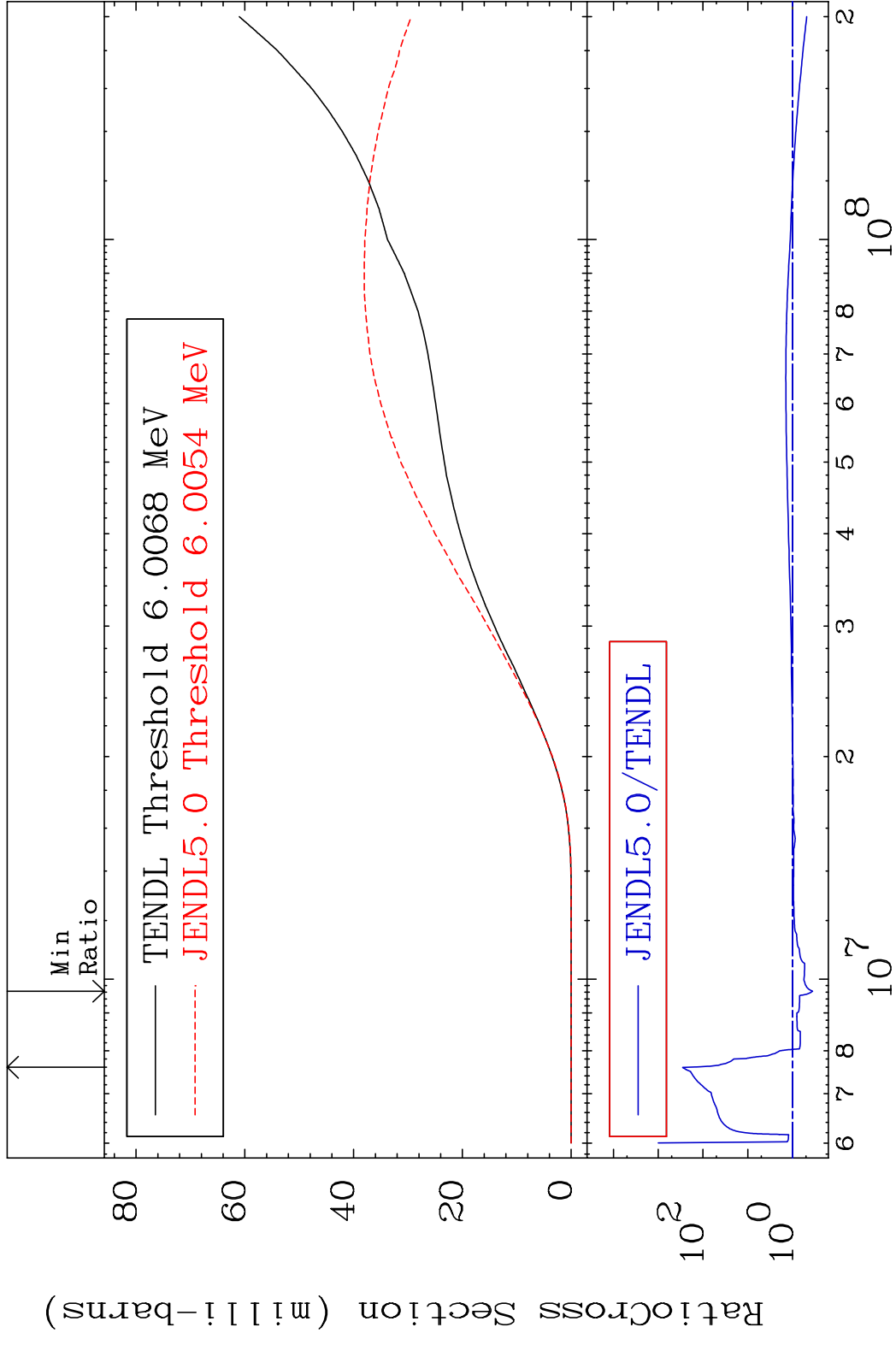


Cross Section -98.00 To 9999. %



MAT 5119

Tritium Production 51-Sb-119  
Cross Section -64.33 To 9999. %



49

Incident Energy (eV)

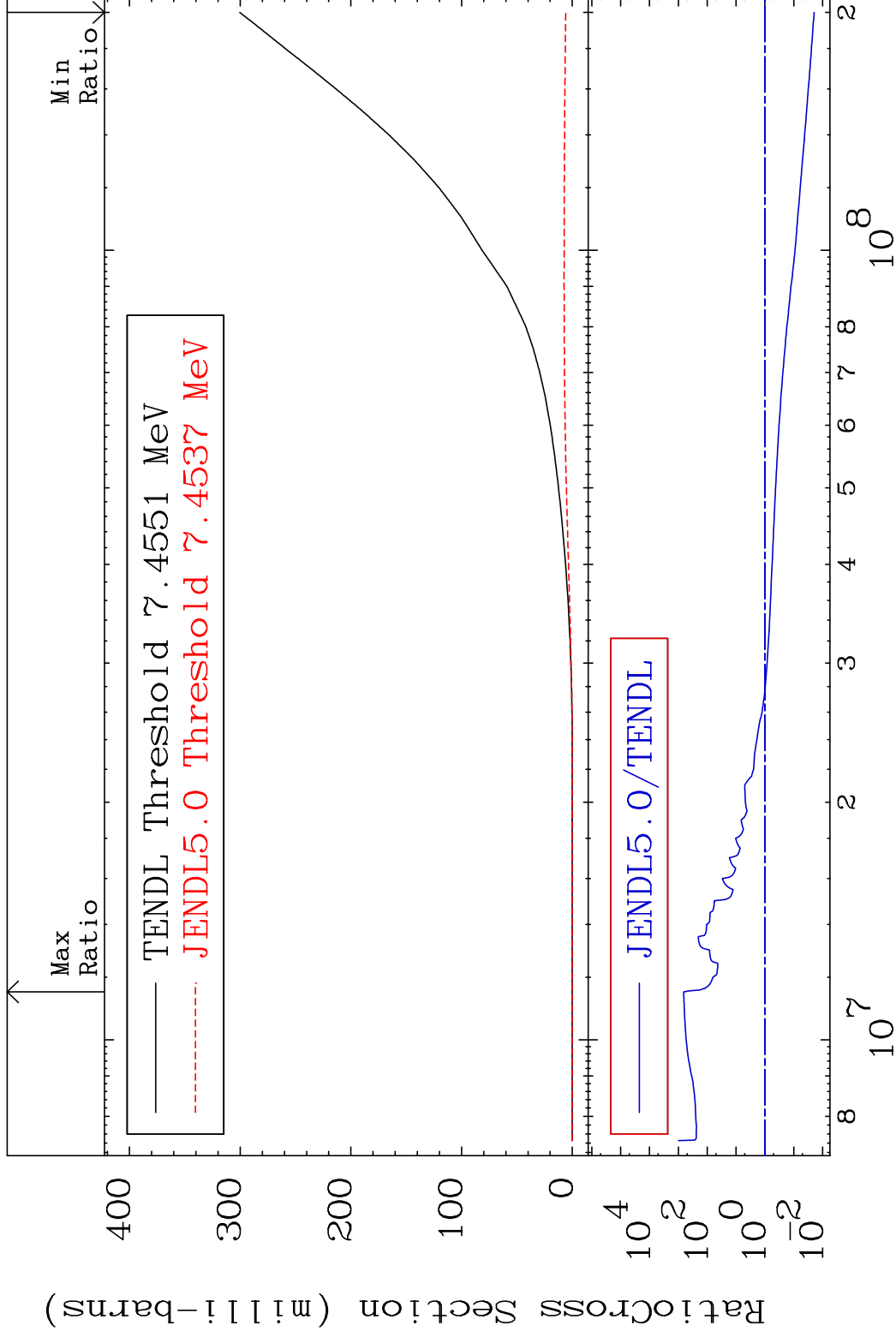
51-Sb-119

MAT 5119

He-3 Production

51-Sb-119

Cross Section -98.03 To 9999. %



50

Incident Energy (eV)

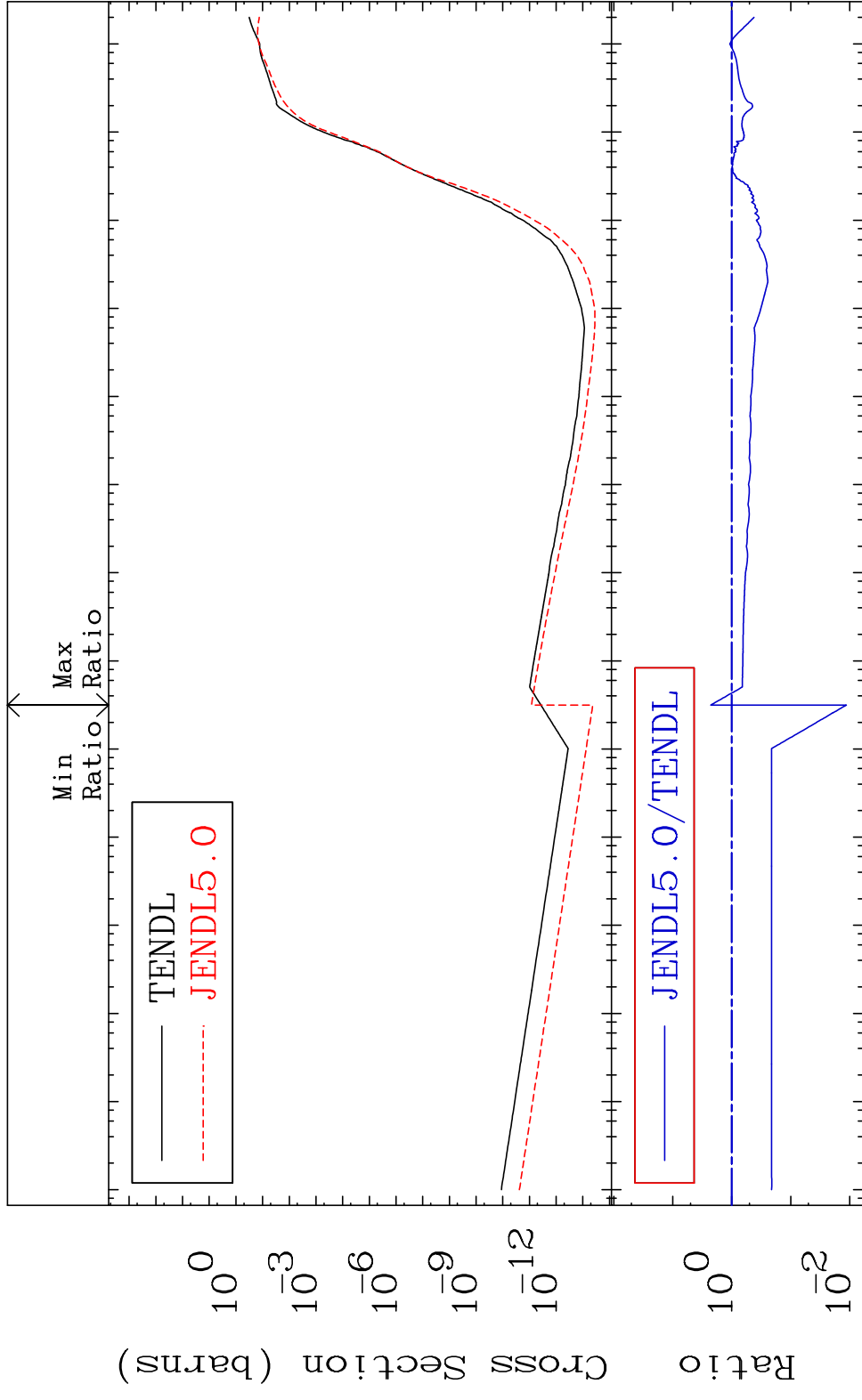
51-Sb-119

MAT 5119

He-4 Production

51-Sb-119

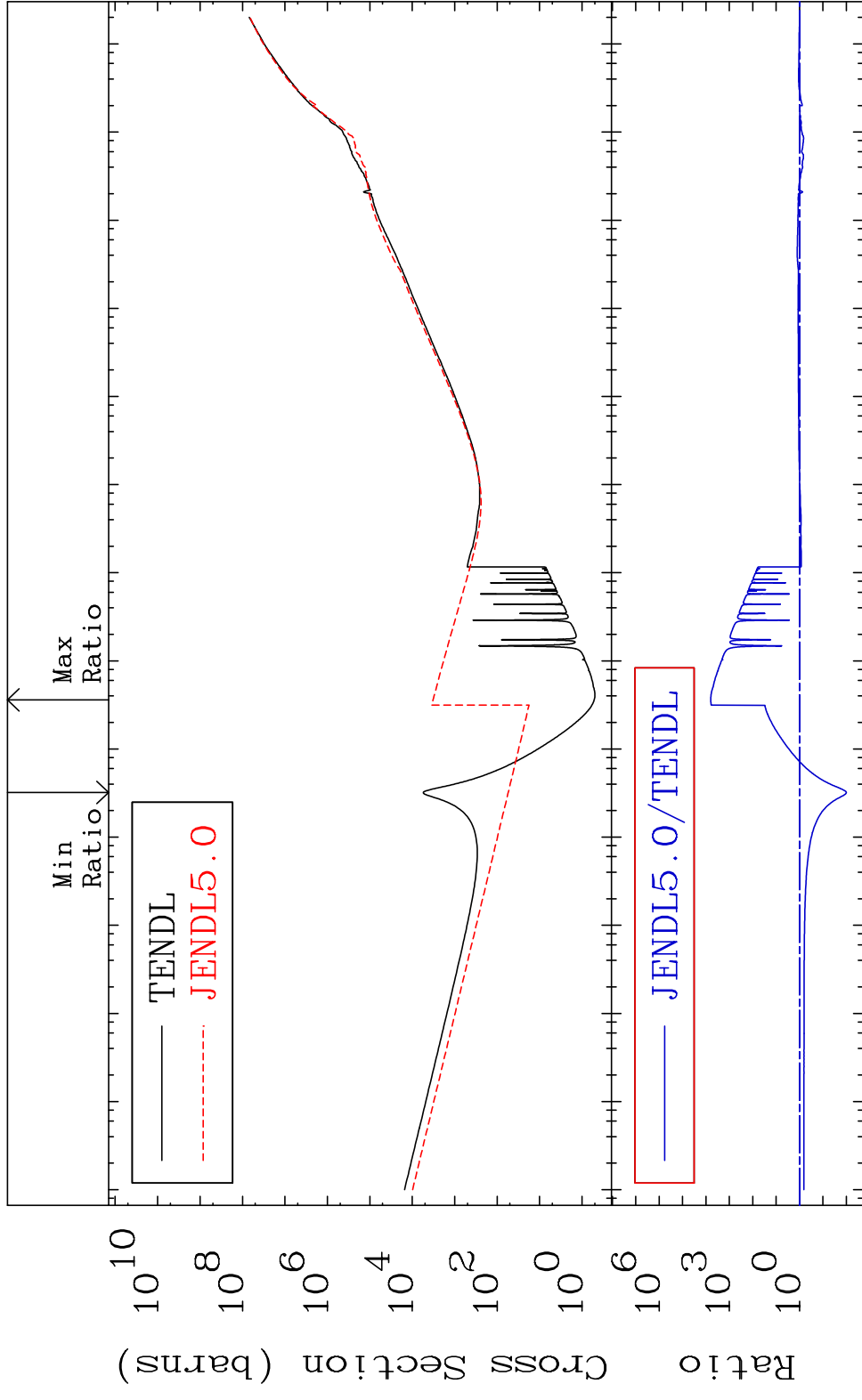
Cross Section -98.86 To 127.1 %



MAT 5119

Kerma total (eV-barns) 51-Sb-119

Cross Section -99.00 To 9999. %



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

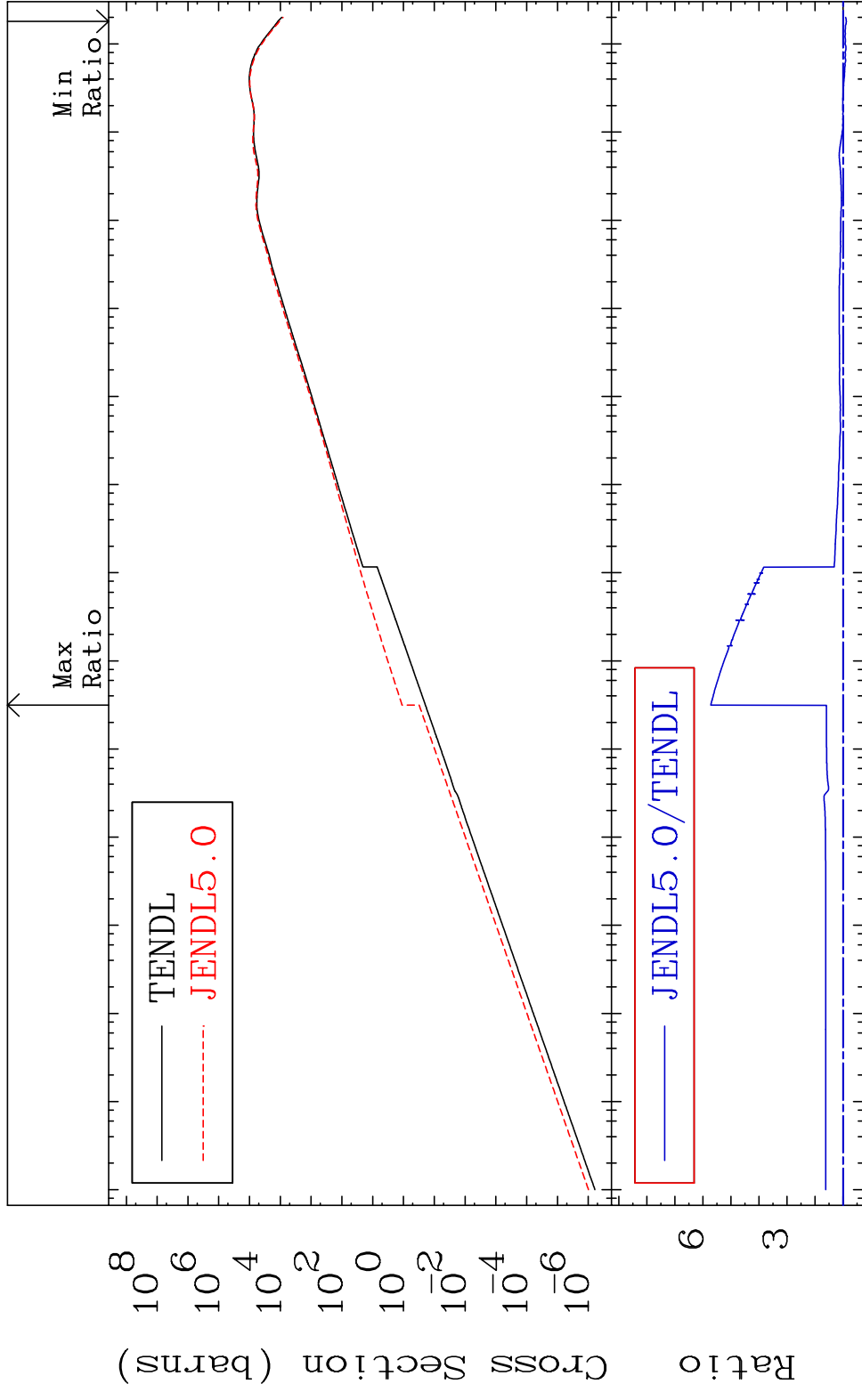
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

MAT 51119

Kerma elastic

51-Sb-119

Cross Section -11.61 To 471.9 %

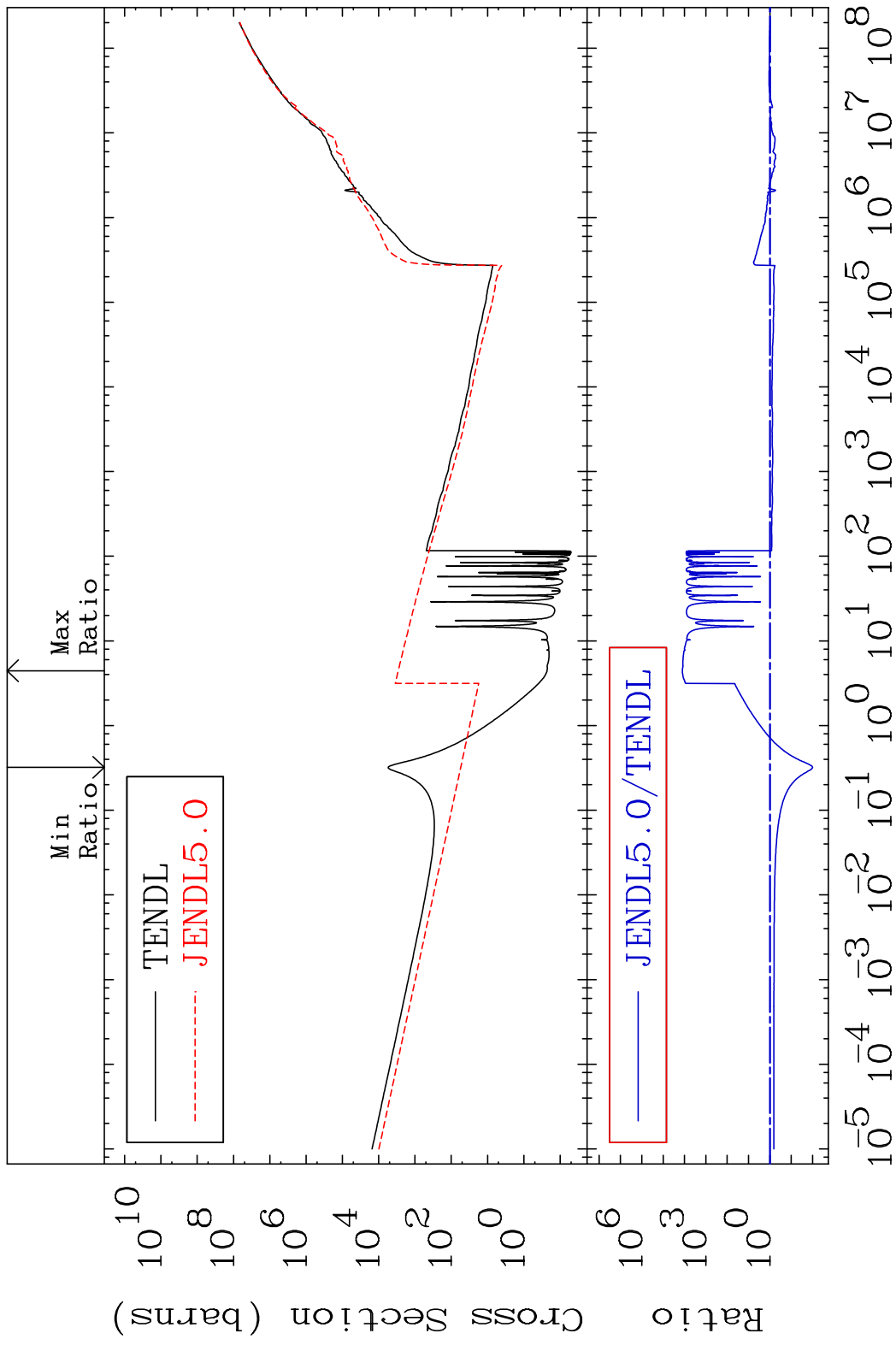


10<sup>8</sup>  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-4</sup>  
10<sup>-6</sup>  
10<sup>-8</sup>  
Cross Section (barns)

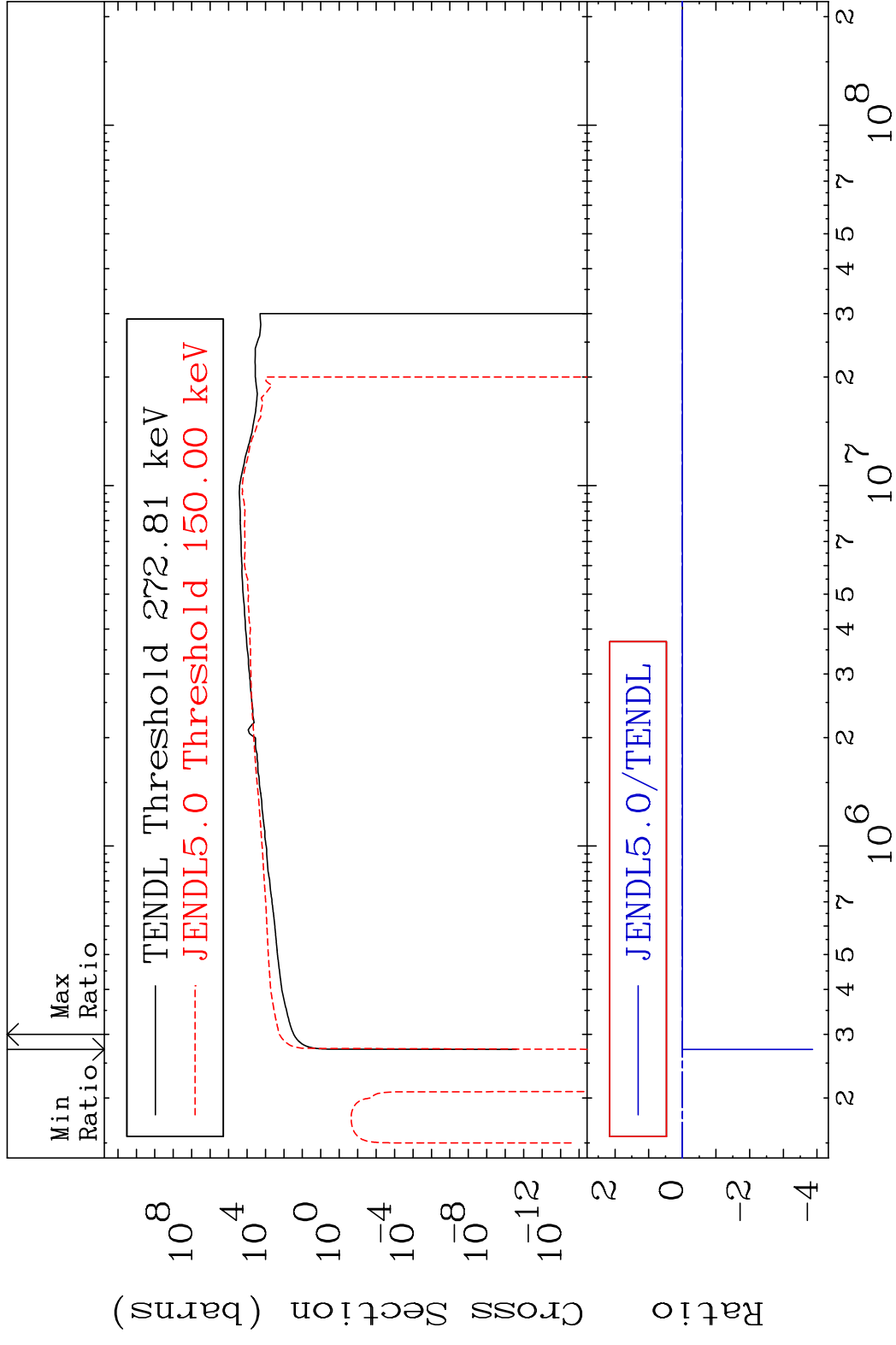
6  
3  
Ratio

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>  
Incident Energy (eV)

MAT 5119 Kerma non-elastic (all but mt2) 51-Sb-119  
 Cross Section -99.00 To 9999. %

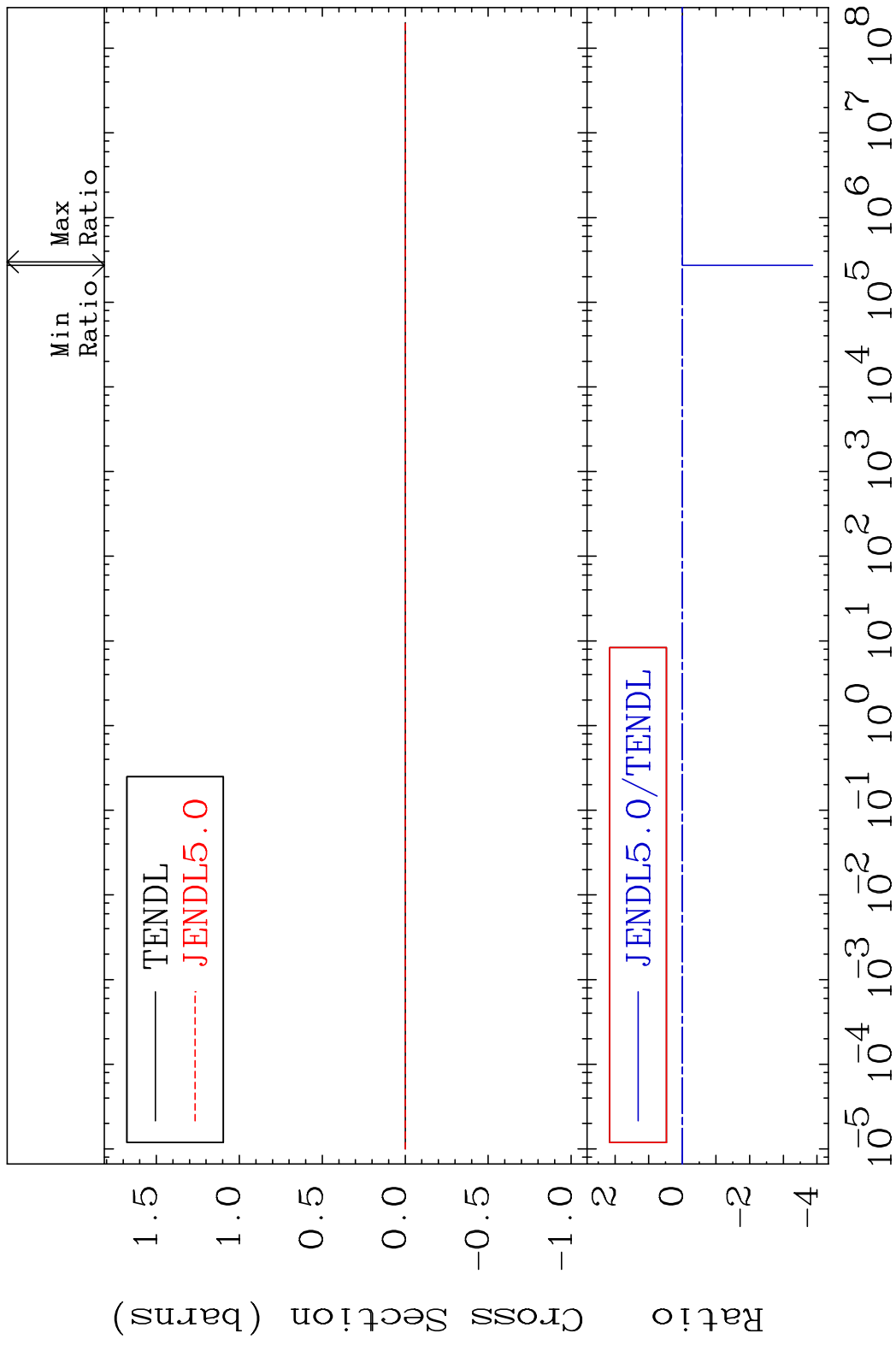


MAT 5119 Kerma inelastic (mt51-91) 51-Sb-119  
 Cross Section -9999. To 495.1 %





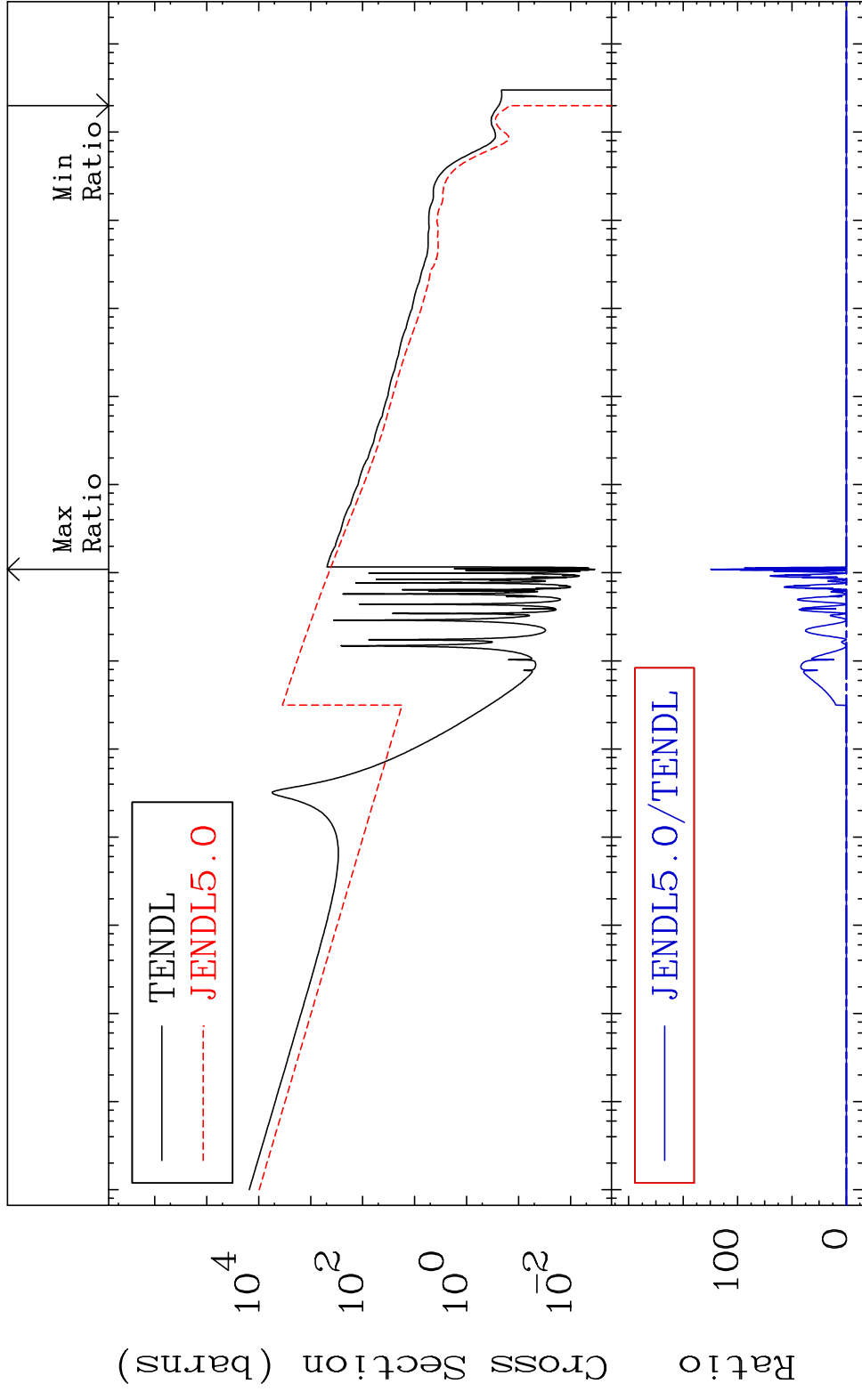
MAT 51119 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-119  
 Cross Section -9999. To 495.1 %



MAT 5119

Kerma capture (mt102) 51-Sb-119

Cross Section -100.0 To 9999. %



Ratio  
100  
0  
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>

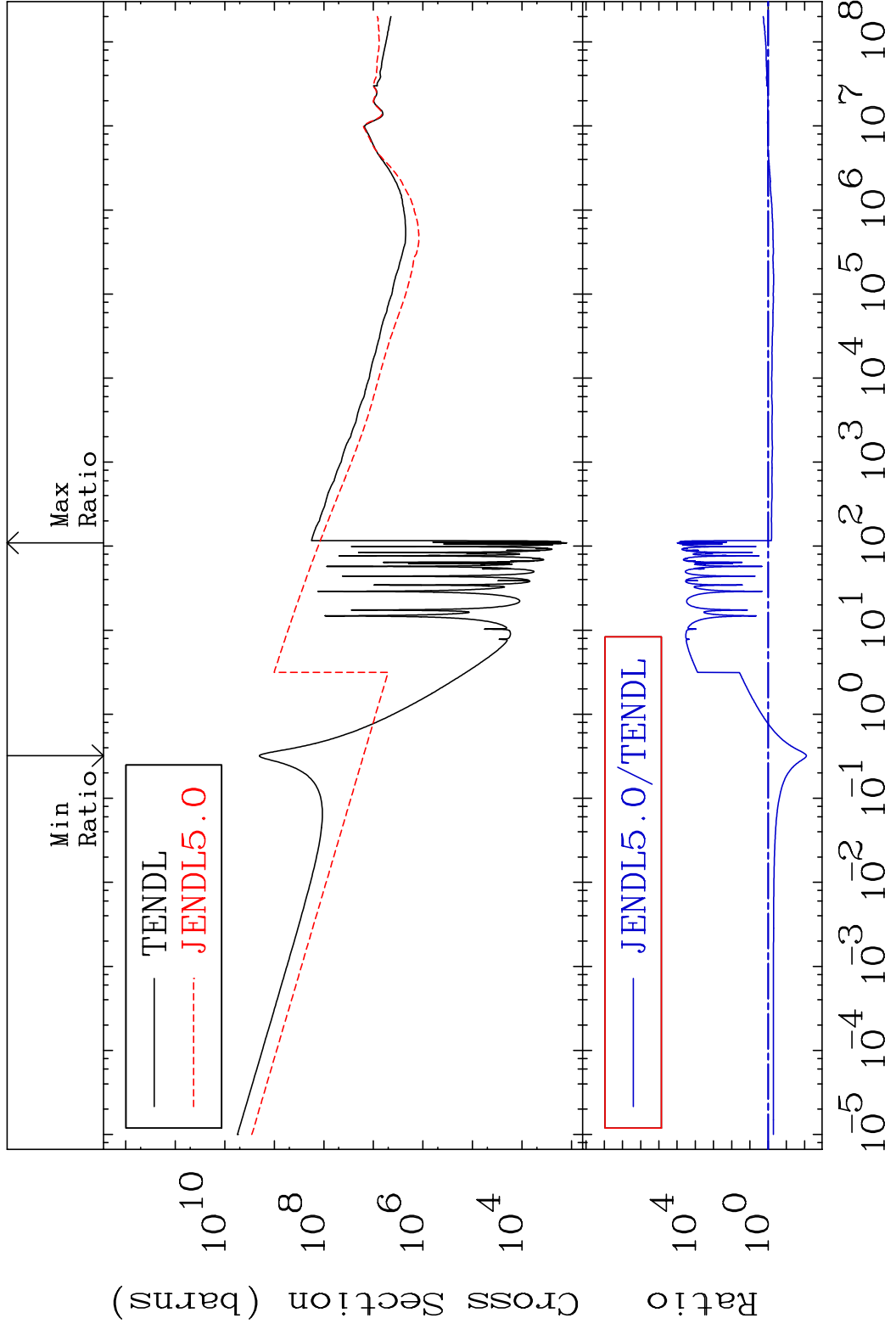
57

Incident Energy (eV)

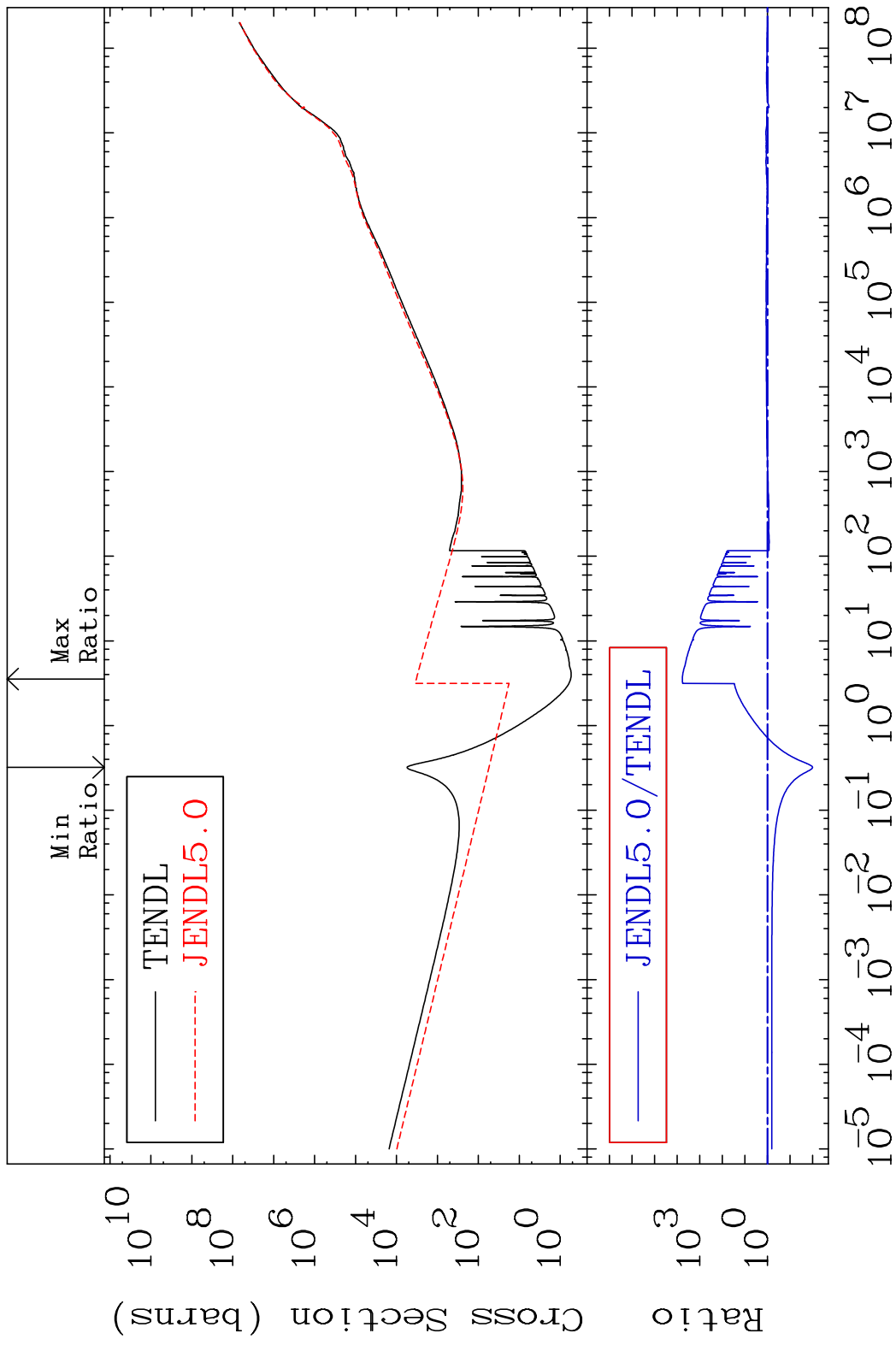
51-Sb-119

MAT 51119

Total photon (eV-barns) 51-Sb-119  
Cross Section -99.21 To 9999. %



MAT 51119 Total kinematic kerma (high limit) 51-Sb-119  
 Cross Section -99.00 To 9999. %

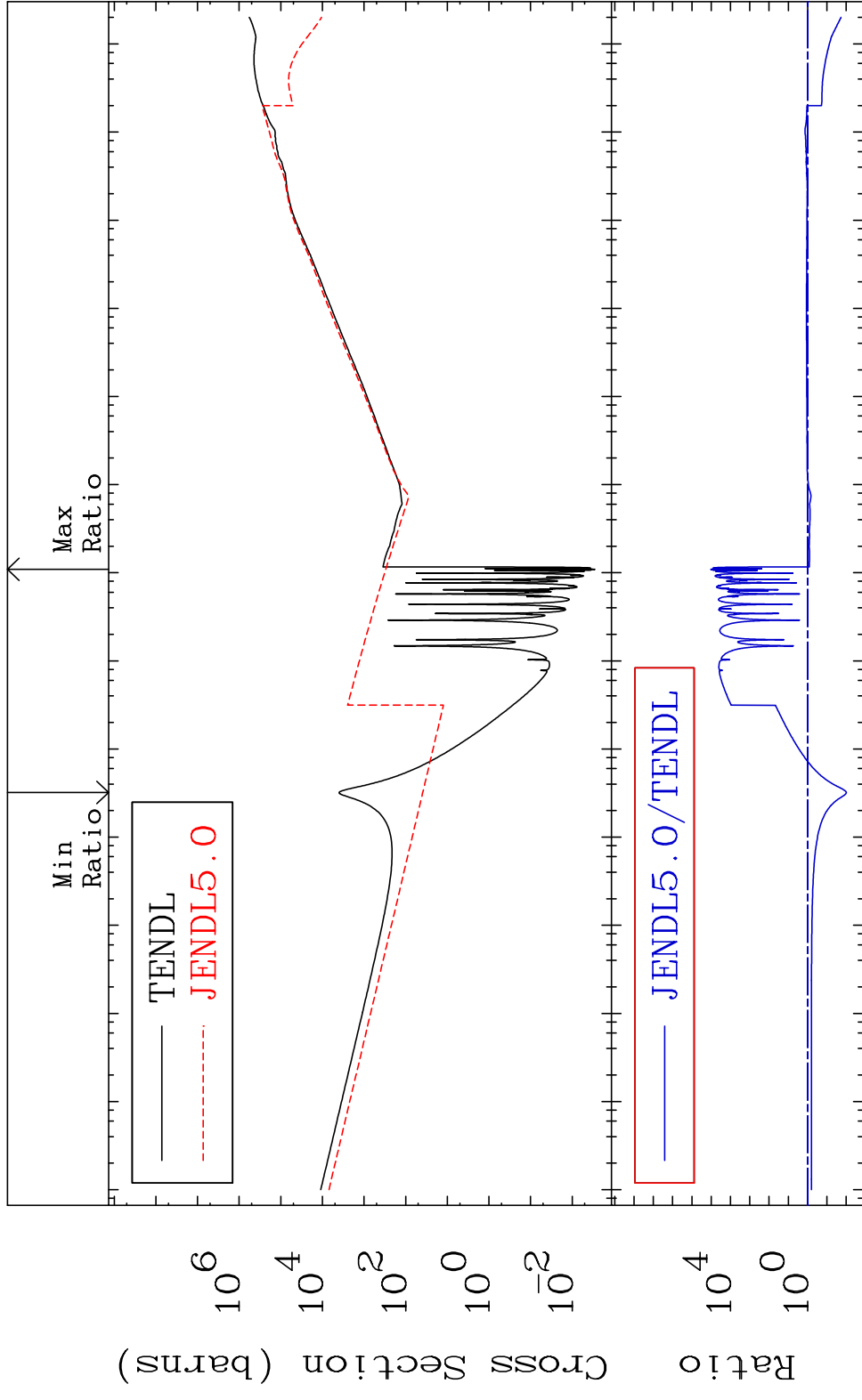


MAT 5119

Dpa total (eV-barns)

51-Sb-119

Cross Section -99.02 To 9999. %



60

Incident Energy (eV)

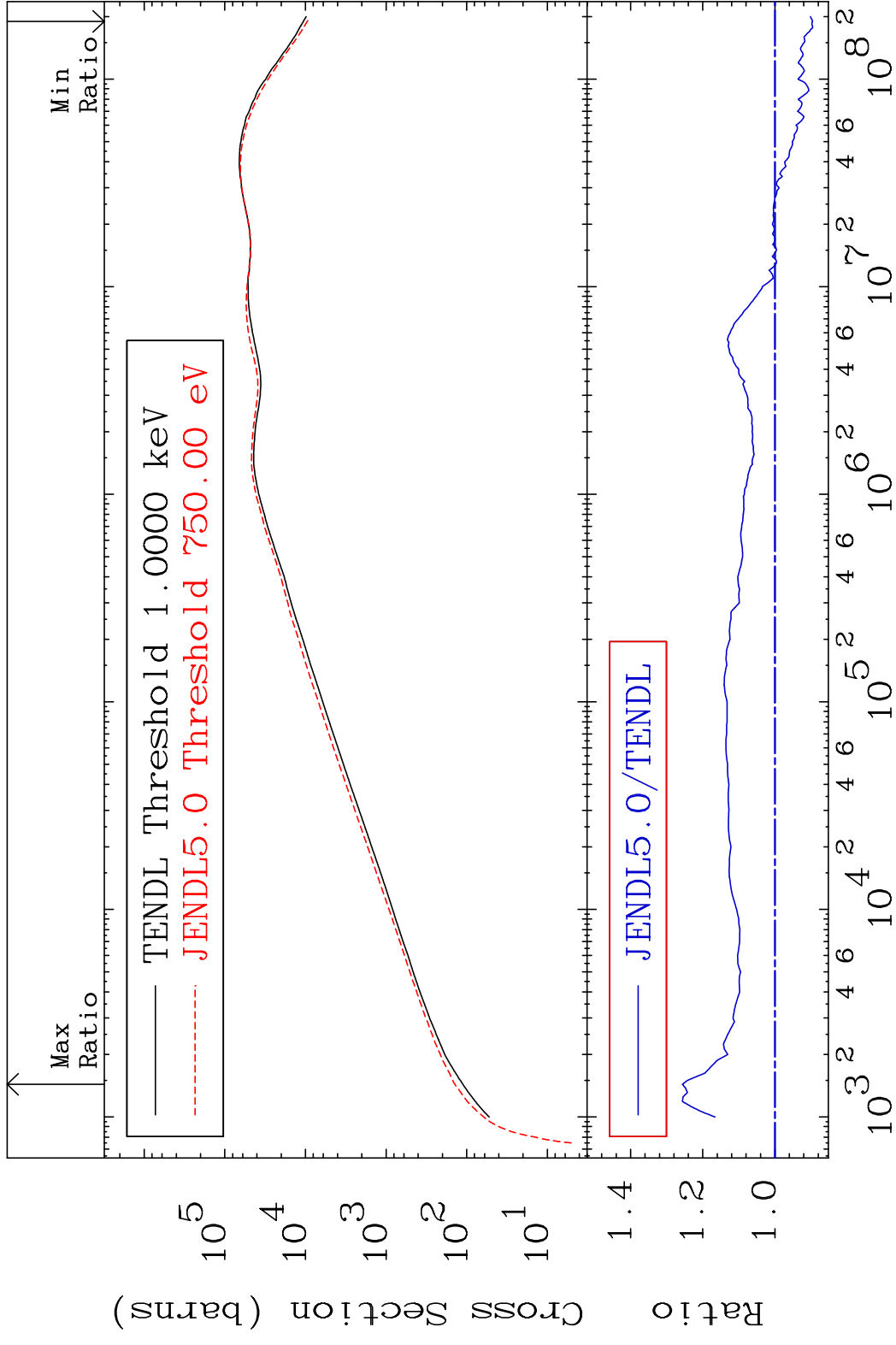
51-Sb-119

MAT 5119

Dpa elastic (mt2)

51-Sb-119

Cross Section -10.42 To 25.66 %

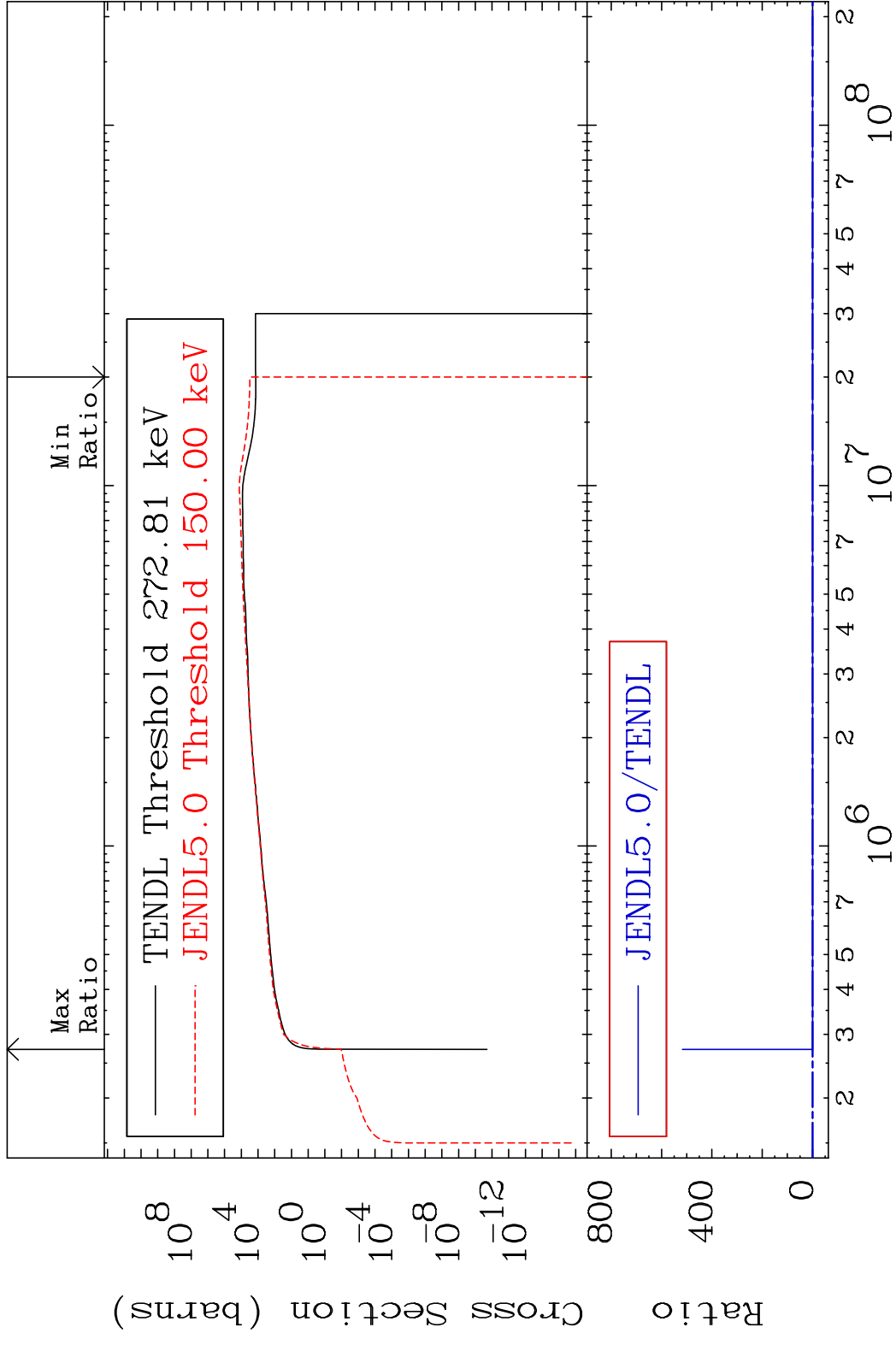


61

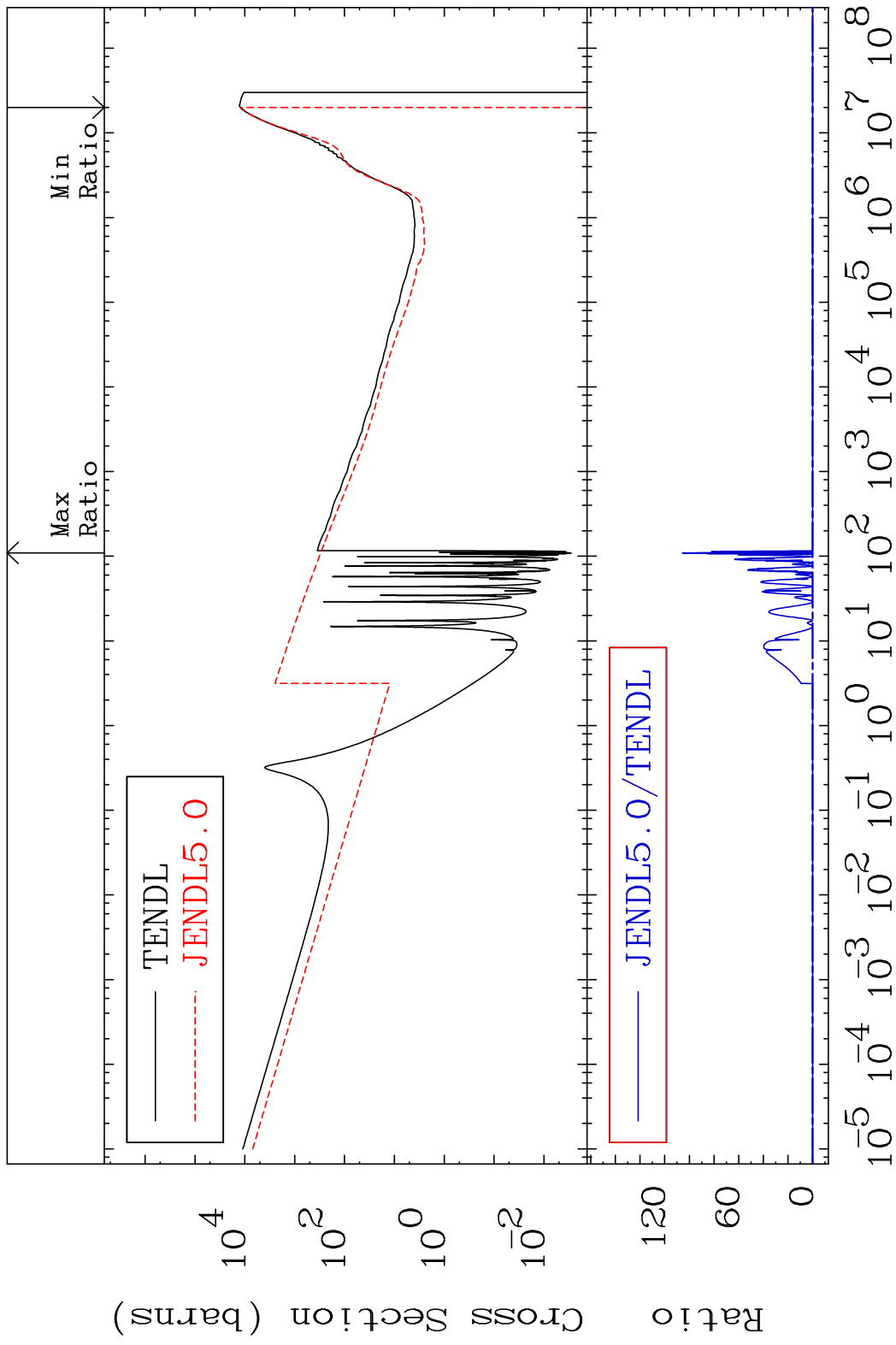
Incident Energy (eV)

51-Sb-119

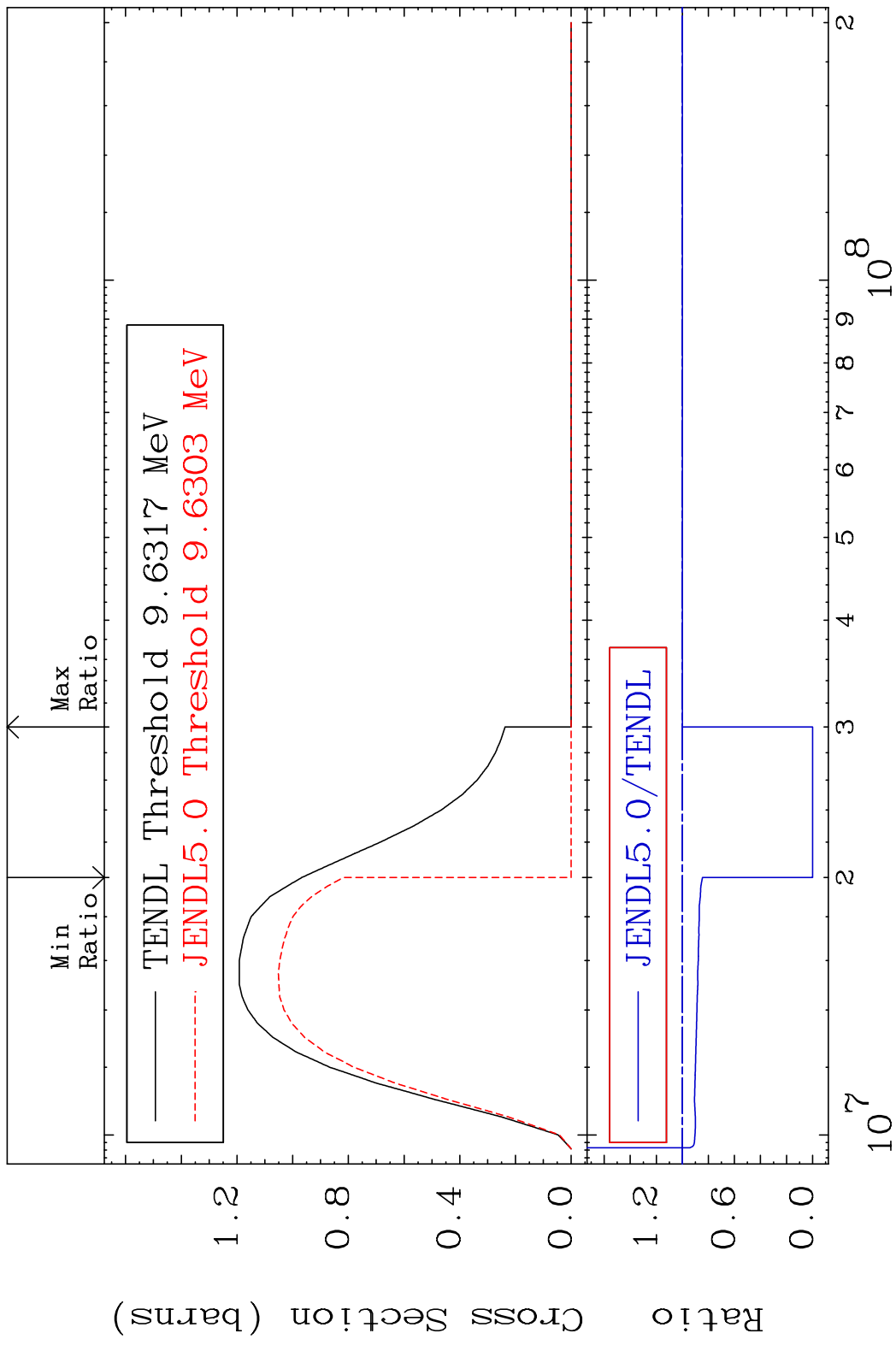
MAT 5119 Dpa inelastic (mt51-91) 51-Sb-119  
 Cross Section -100.0 To 9999. %

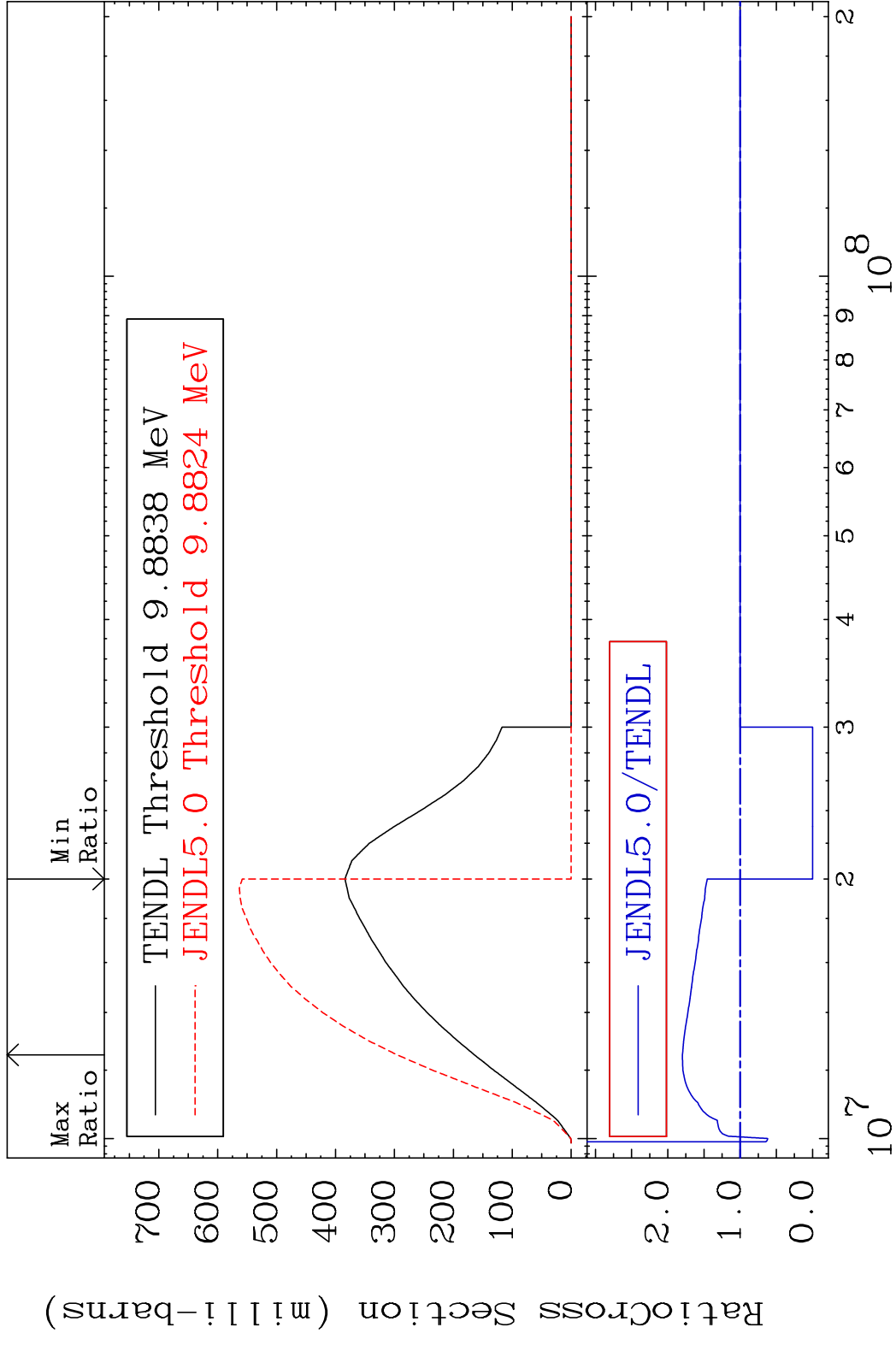


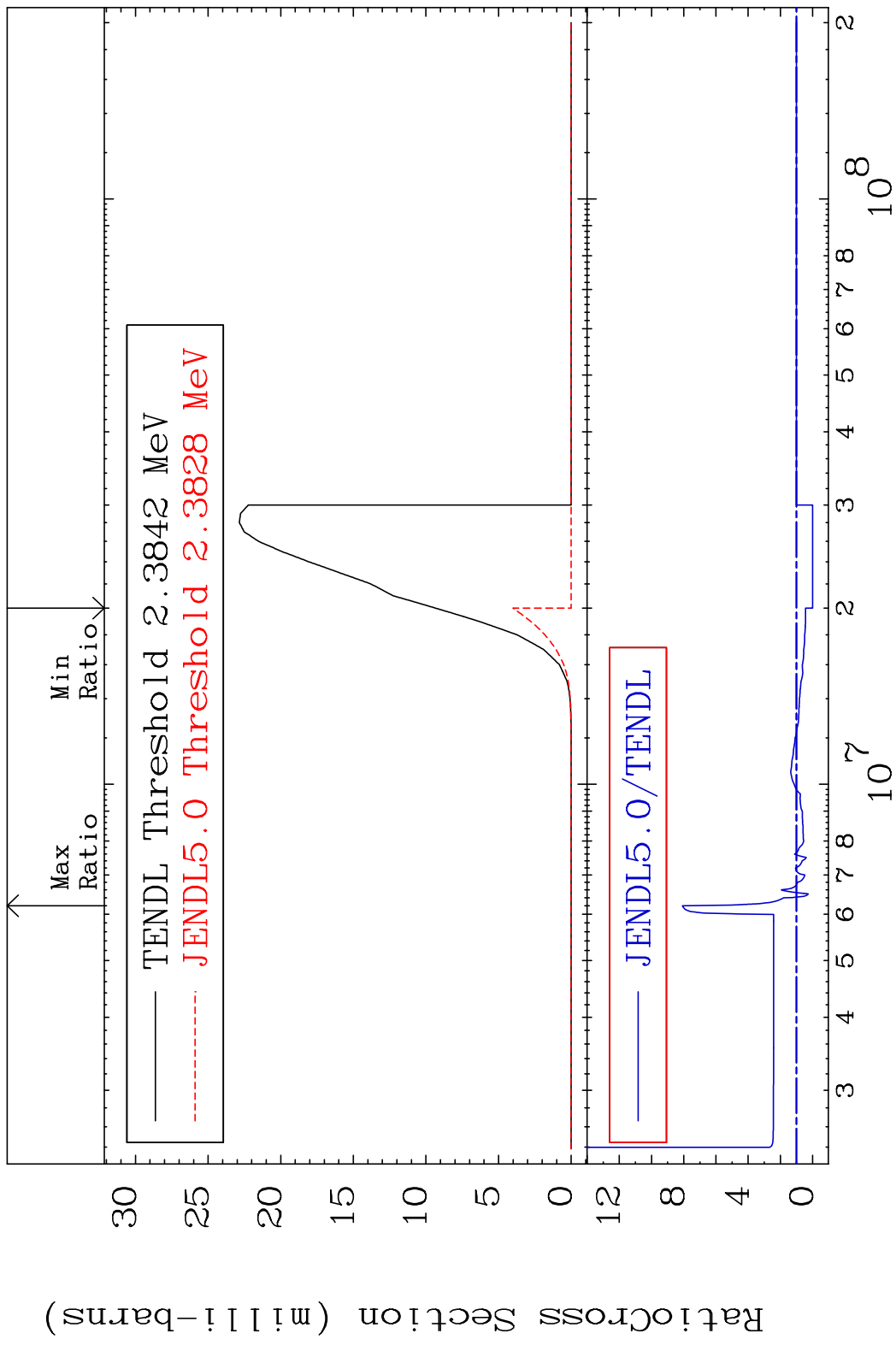
MAT 51119 Dpa disappearance (mt102 -120) 51-Sb-119  
 Cross Section -100.0 To 9999. %

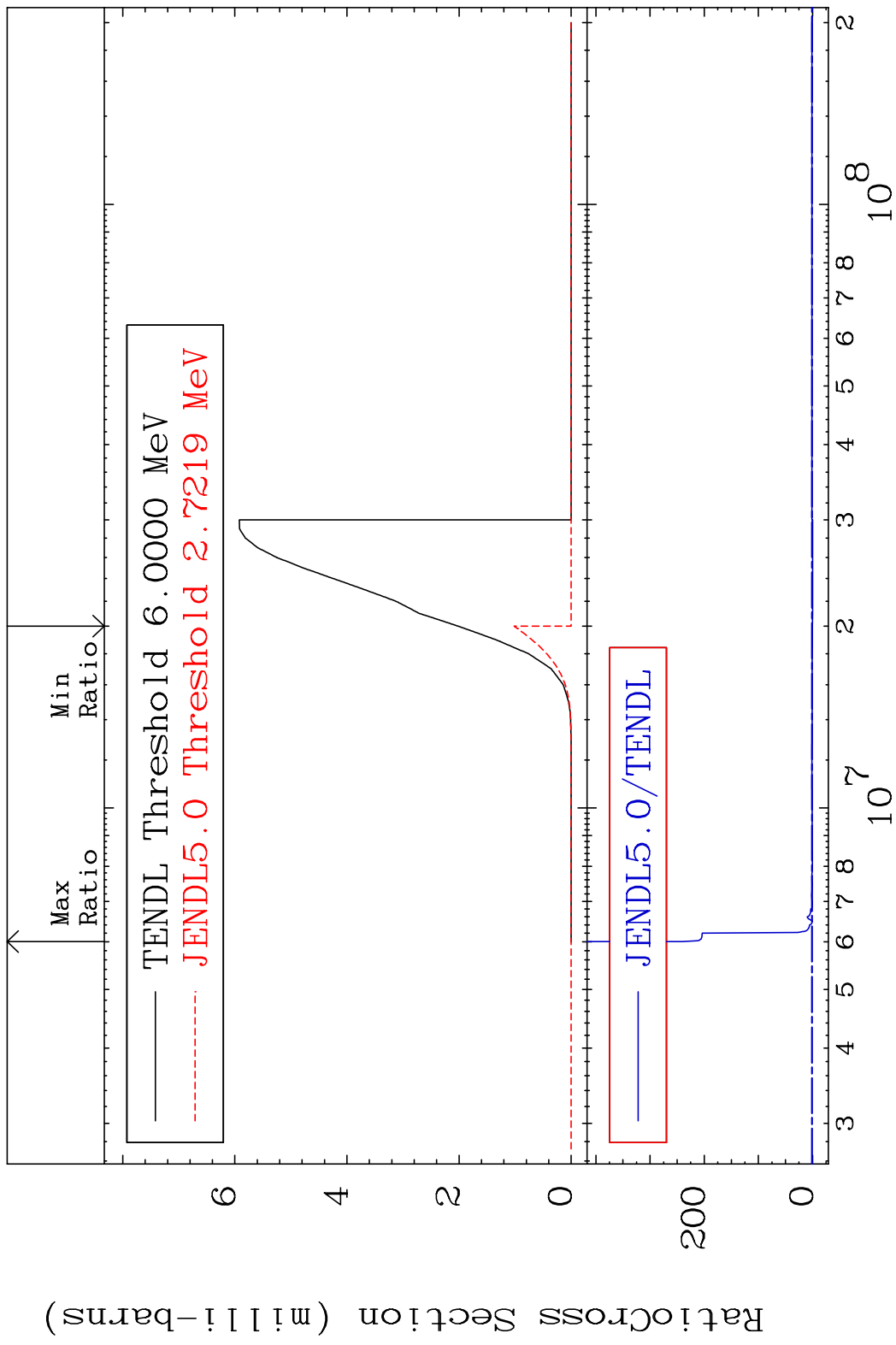


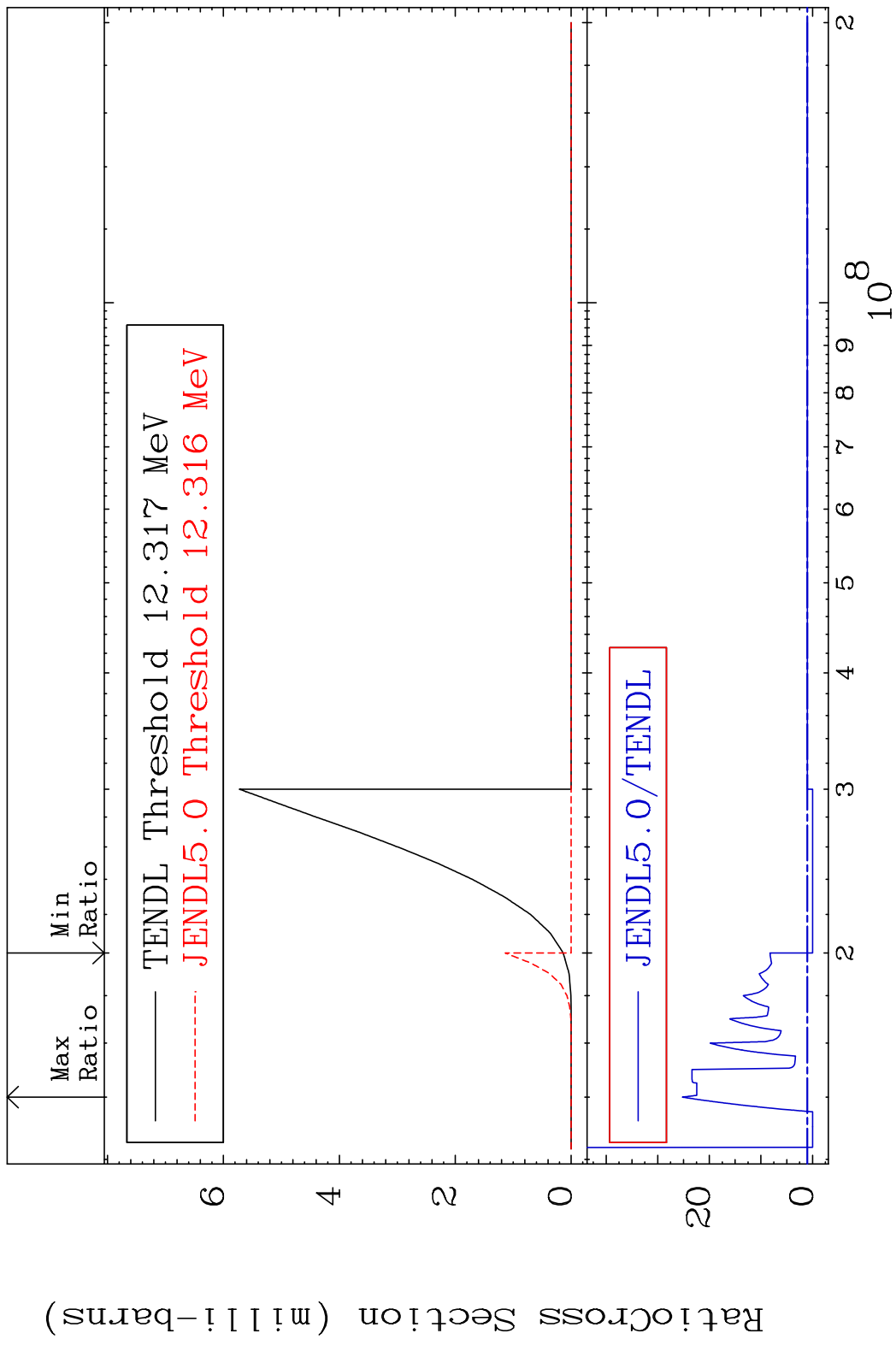


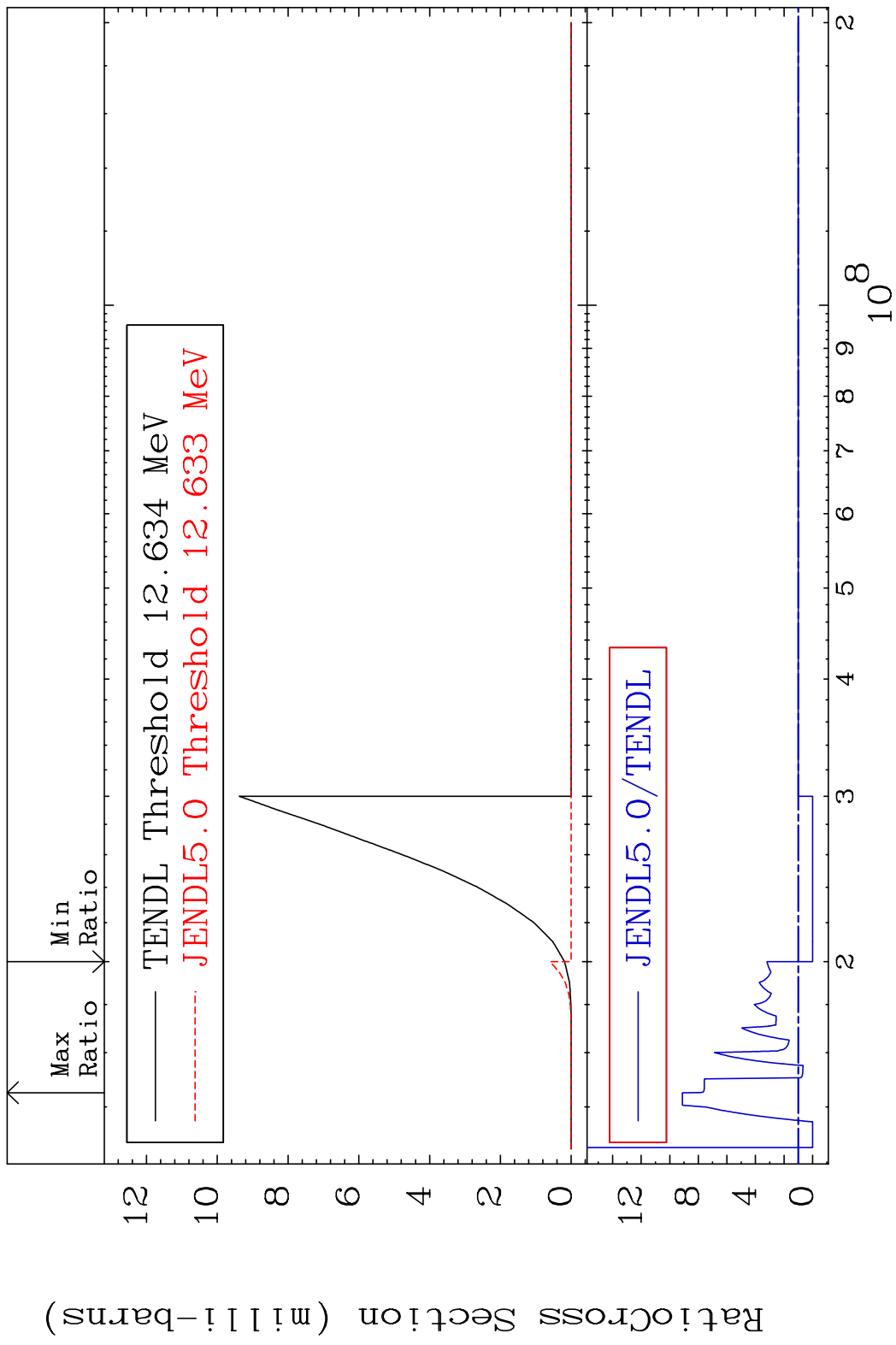












MAT 5119 (n,2n) p:50-Sn-117g 51-Sb-119  
 Radionuclide Production Cross Section 180.01 dth 38.89 %

