

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

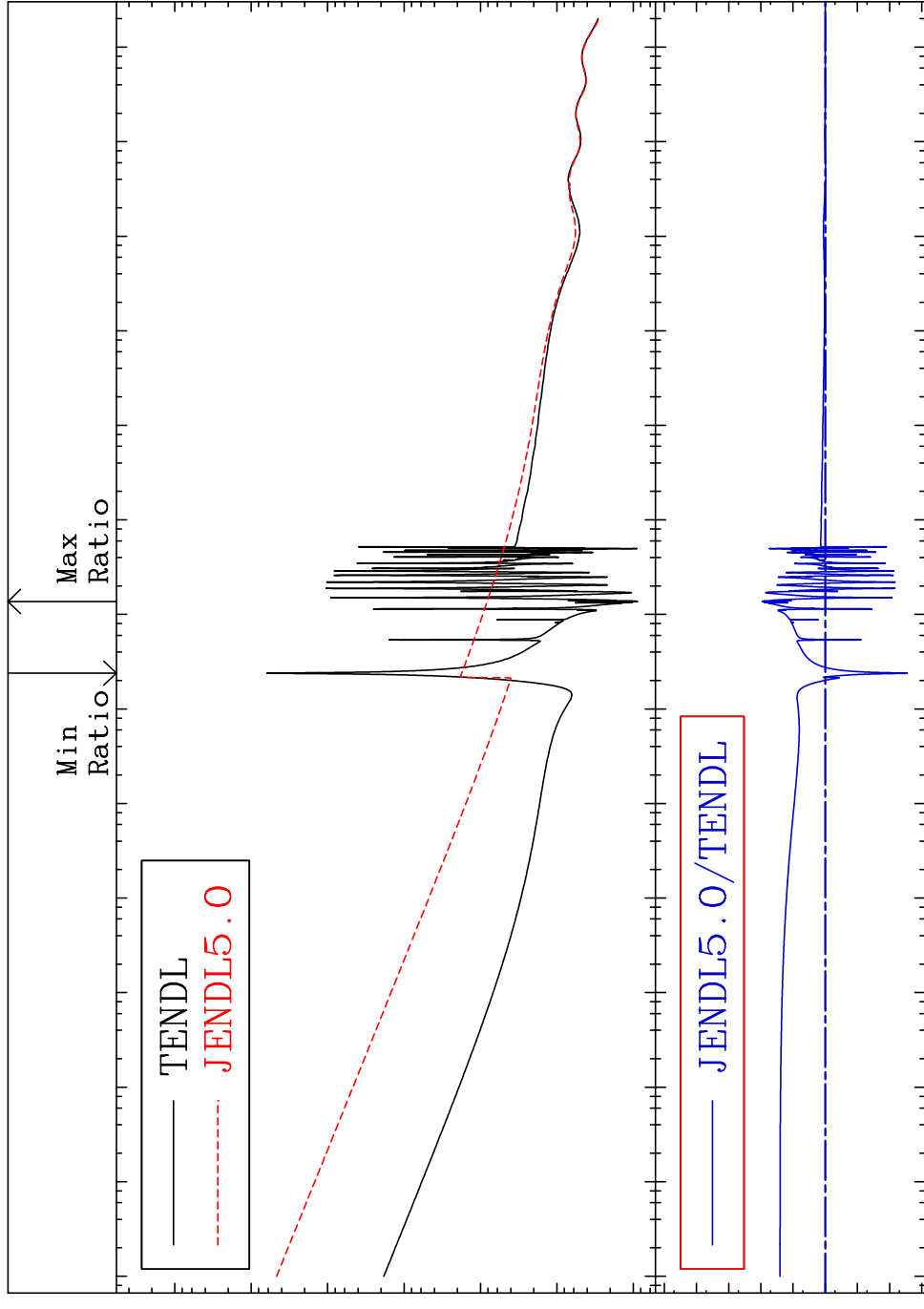
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Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8019

Total Cross Section -99.72 To 9238. %  
80-Hg-194



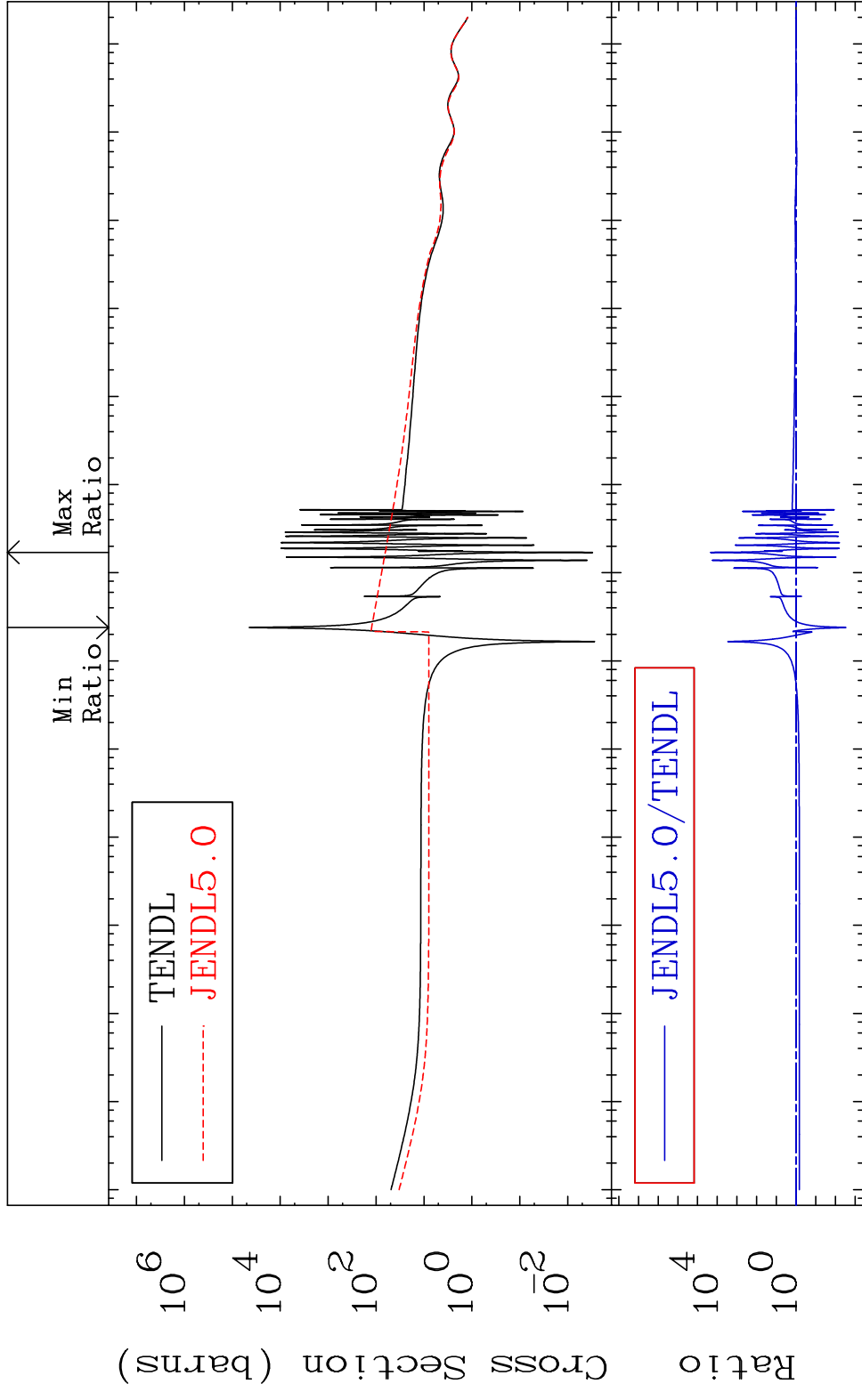
Cross Section (barns)  
10<sup>6</sup>  
10<sup>5</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
Ratio  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>

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>

1 Incident Energy (eV) 80-Hg-194

MAT 8019

Elastic Cross Section -99.72 To 9999. %  
80-Hg-194



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>-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>  
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10<sup>7</sup>  
10<sup>8</sup>

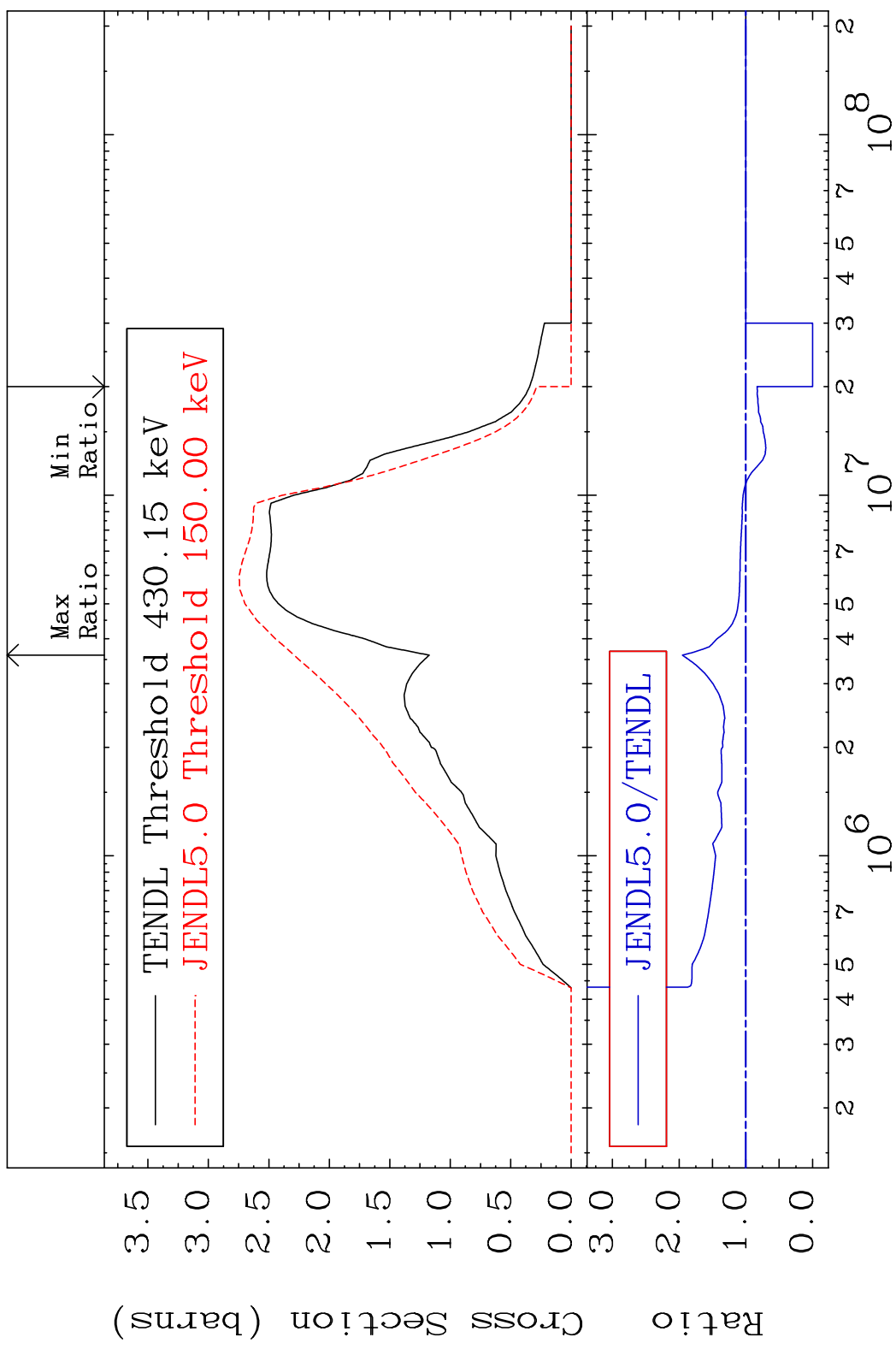
2 Incident Energy (eV) 80-Hg-194

MAT 8019

Inelastic

80-Hg-194

Cross Section -100.0 To 95.15 %

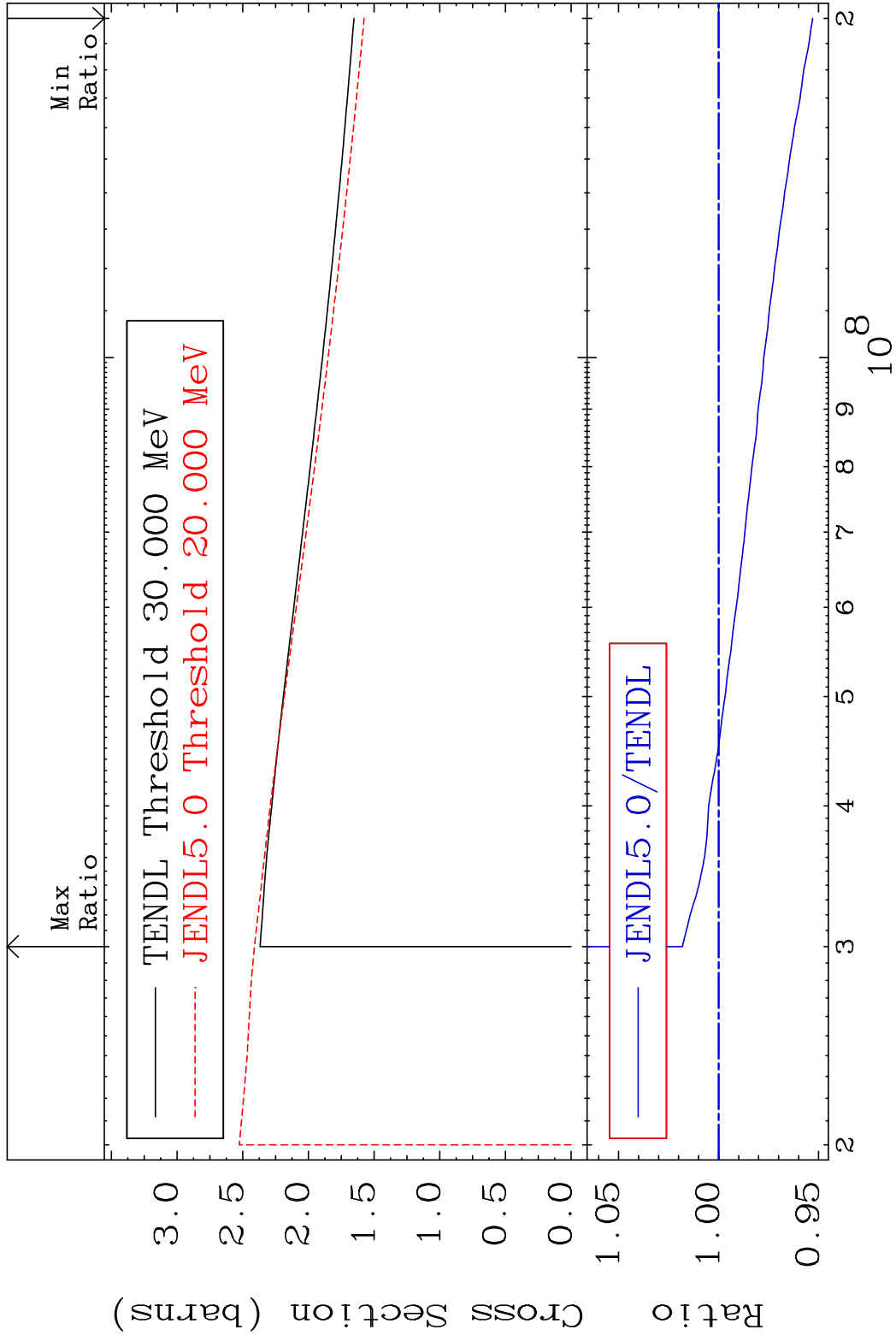


MAT 8019

(n, remainder)

80-Hg-194

Cross Section -4.696 To 1.812 %



4

Incident Energy (eV)

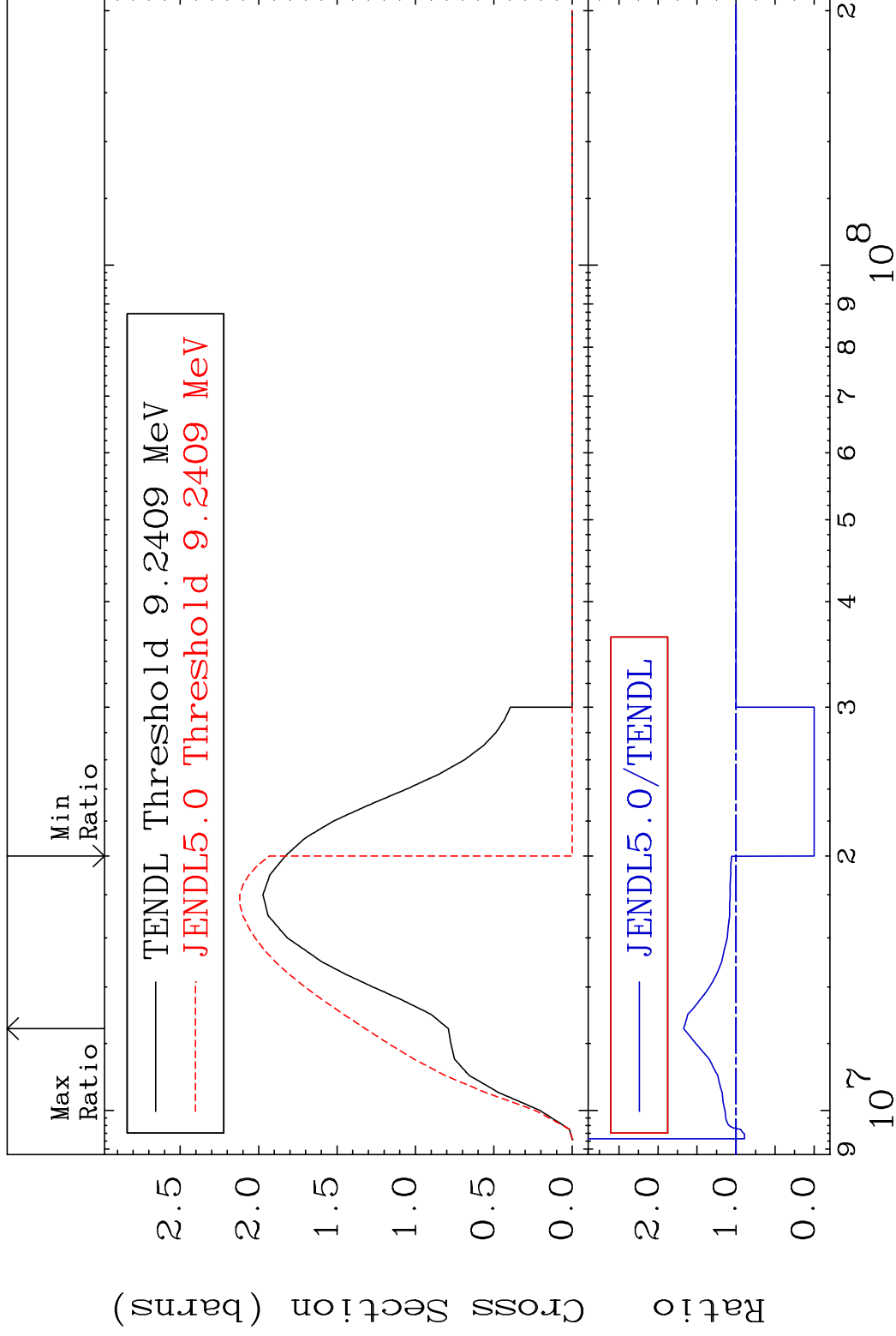
80-Hg-194

MAT 8019

(n,2n)

80-Hg-194

Cross Section -100.0 To 67.14 %



5

Incident Energy (eV)

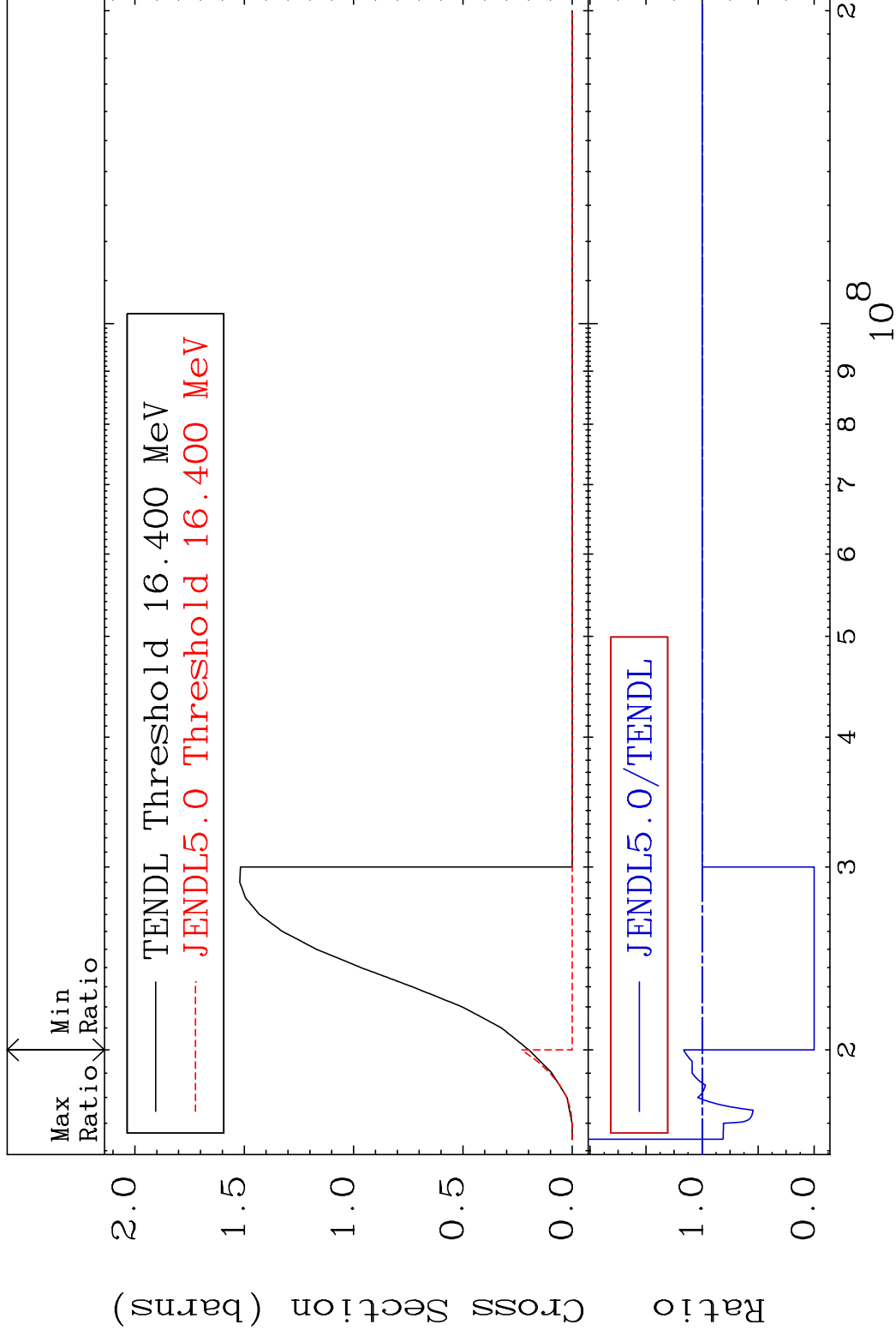
80-Hg-194

MAT 8019

(n,3n)

80-Hg-194

Cross Section -100.0 To 16.47 %

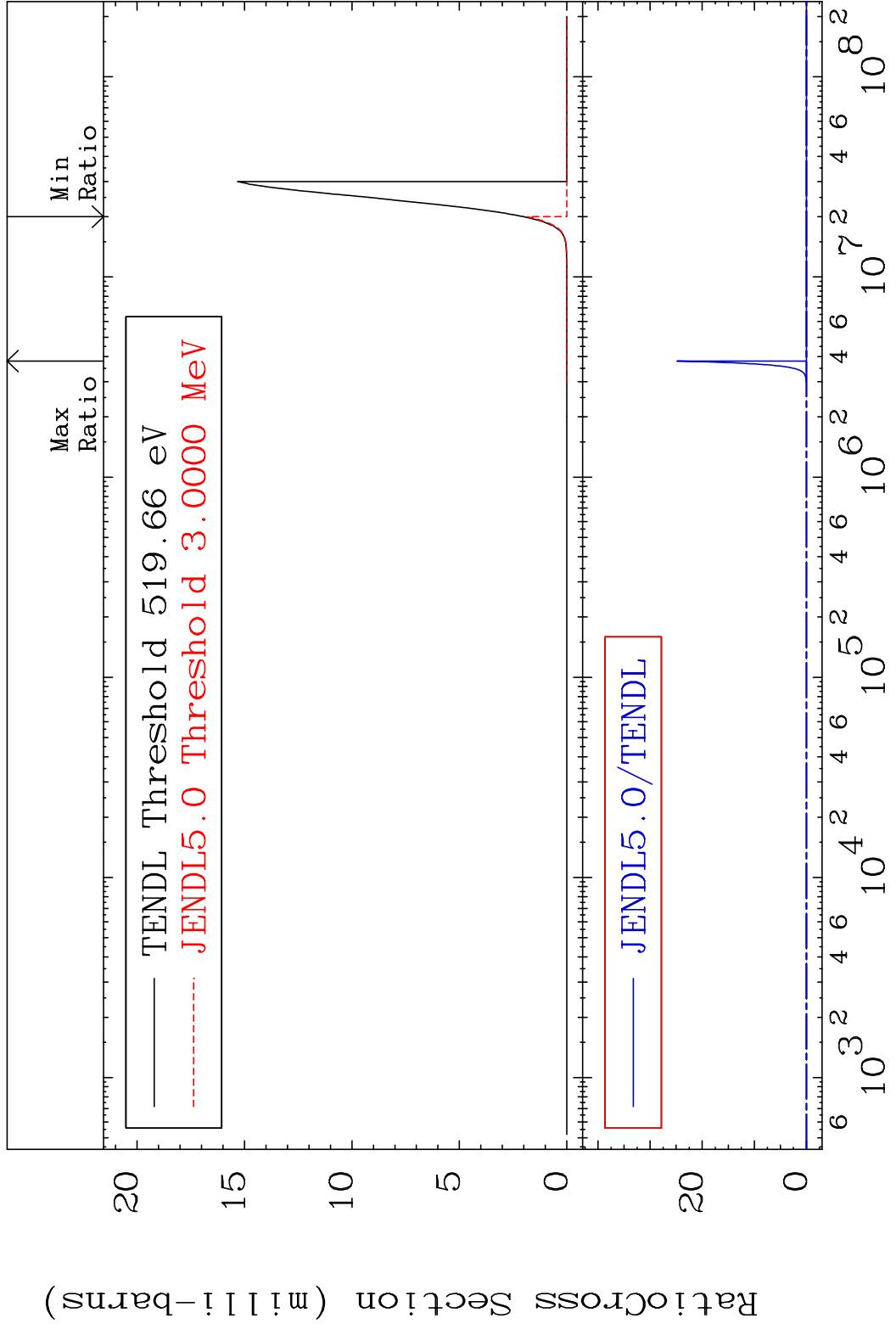


6

Incident Energy (eV)

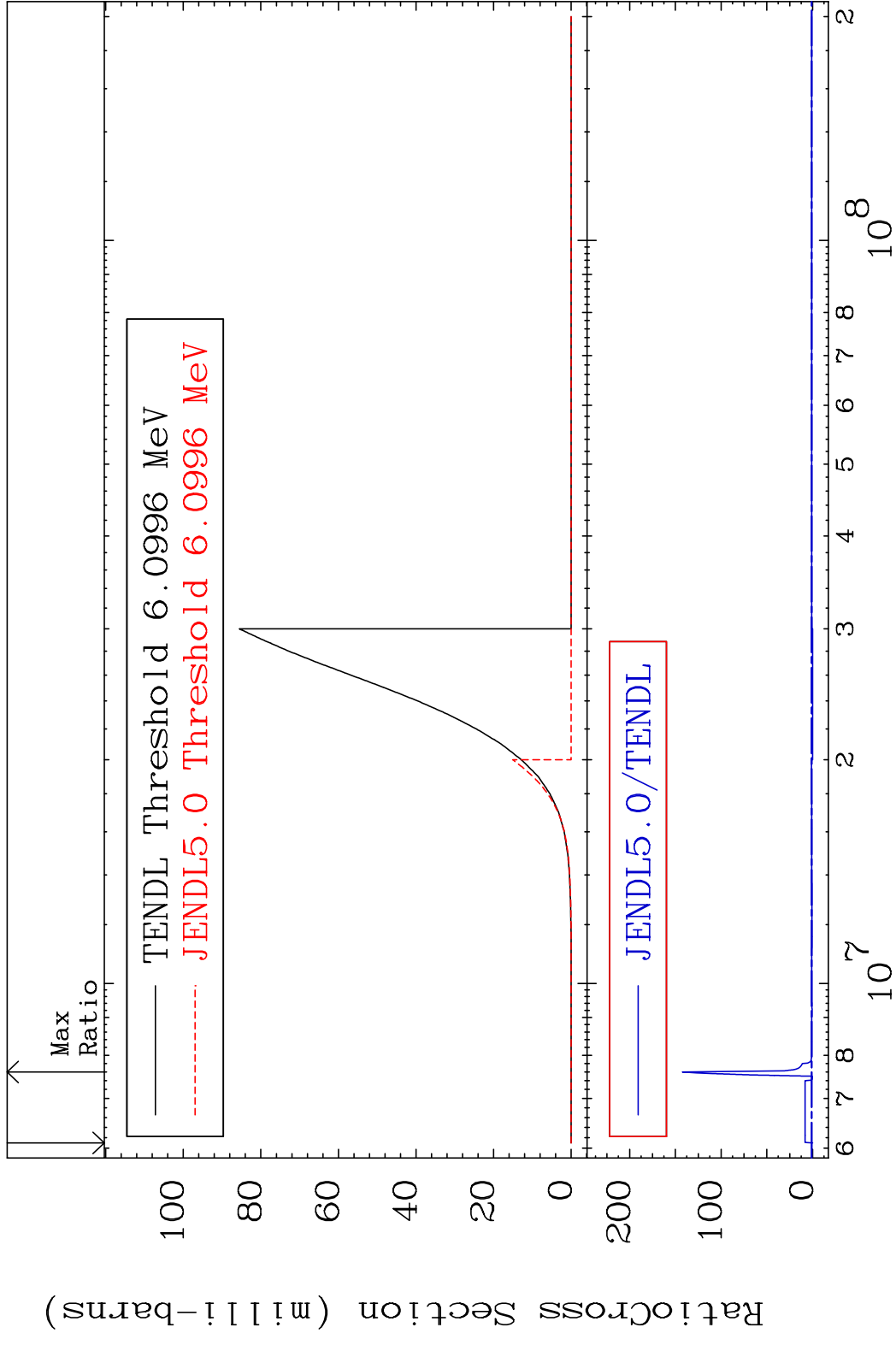
80-Hg-194

MAT 8019  $(n, n') \alpha$  80-Hg-194  
 Cross Section -100.0 To 9999. %



7 Incident Energy (eV) 80-Hg-194

MAT 8019 (n, n') p 80-Hg-194  
 Cross Section -100.0 To 9999. %



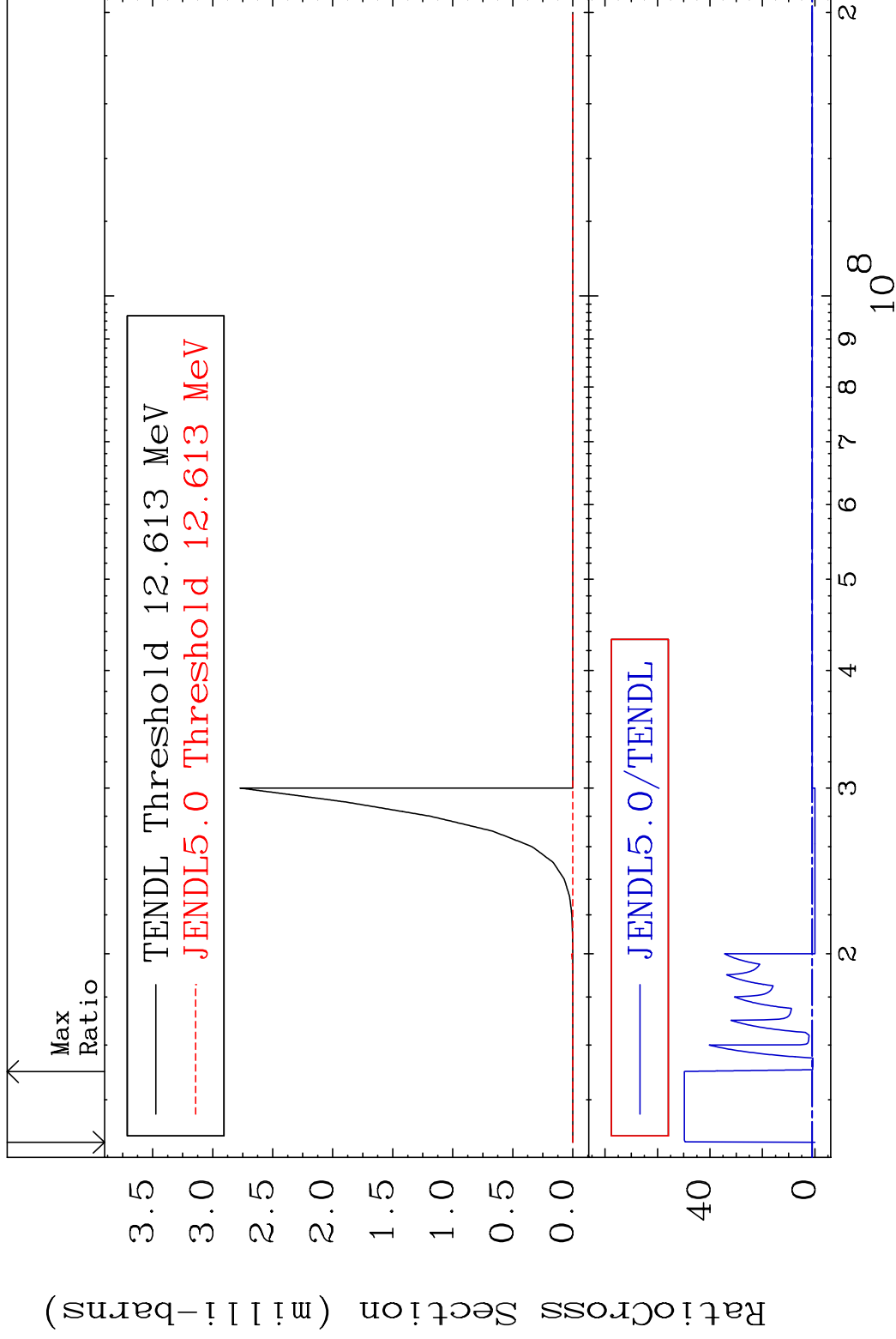
8 8 80-Hg-194

MAT 8019

(n, n') d

80-Hg-194

Cross Section -100.0 To 4878. %

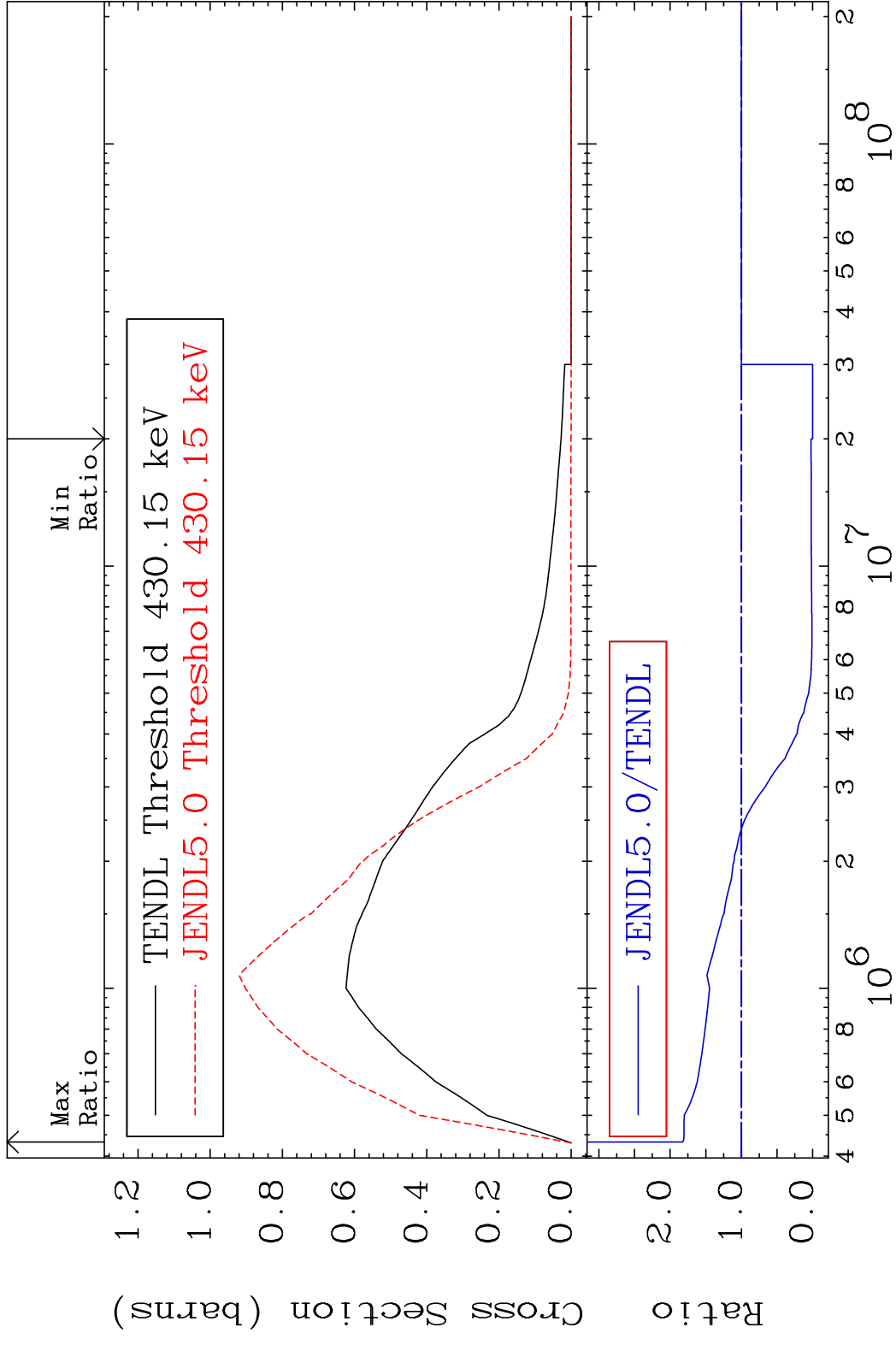


9

Incident Energy (eV)

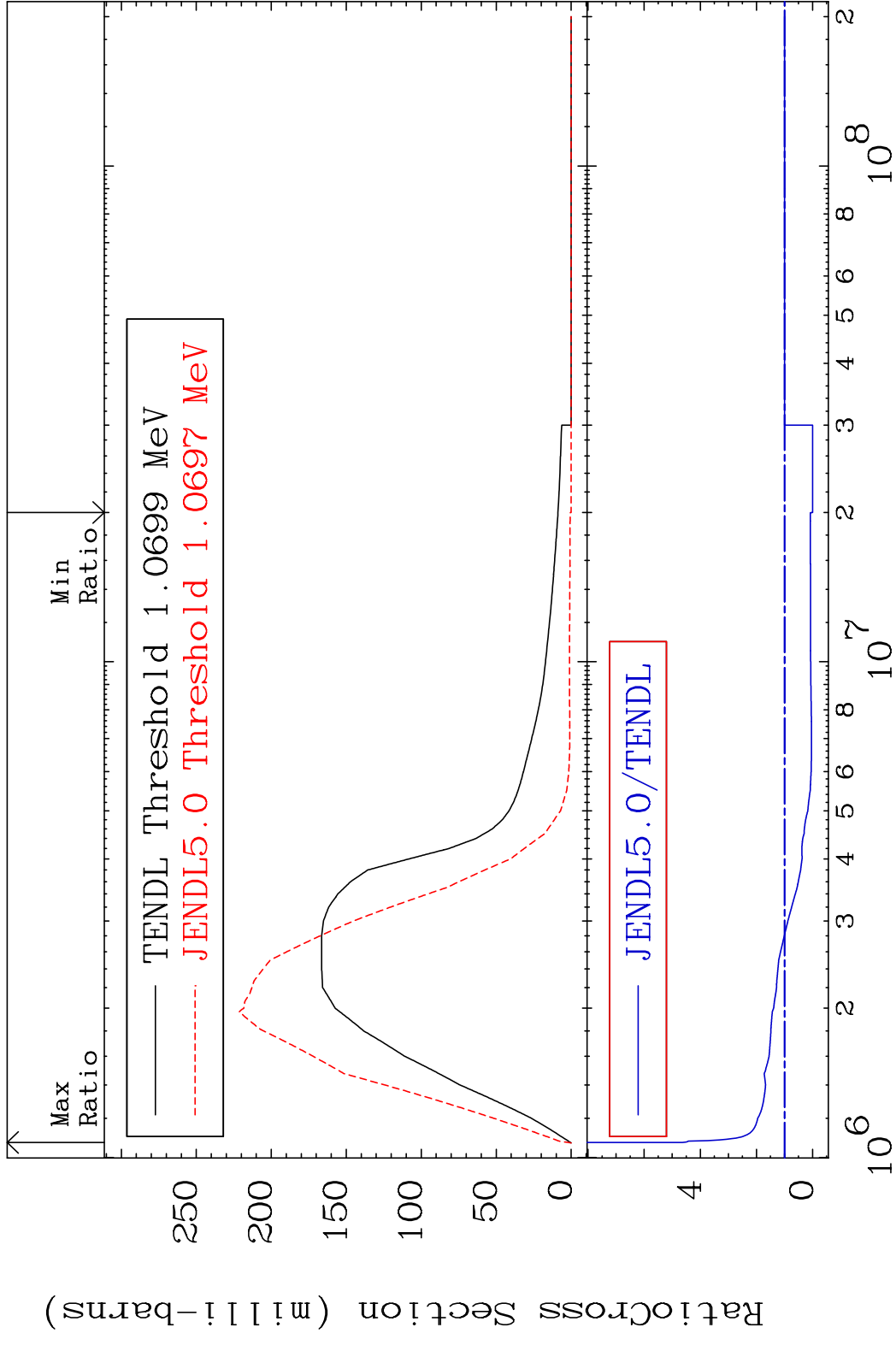
80-Hg-194

MAT 8019 MT= 51 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 82.88 %



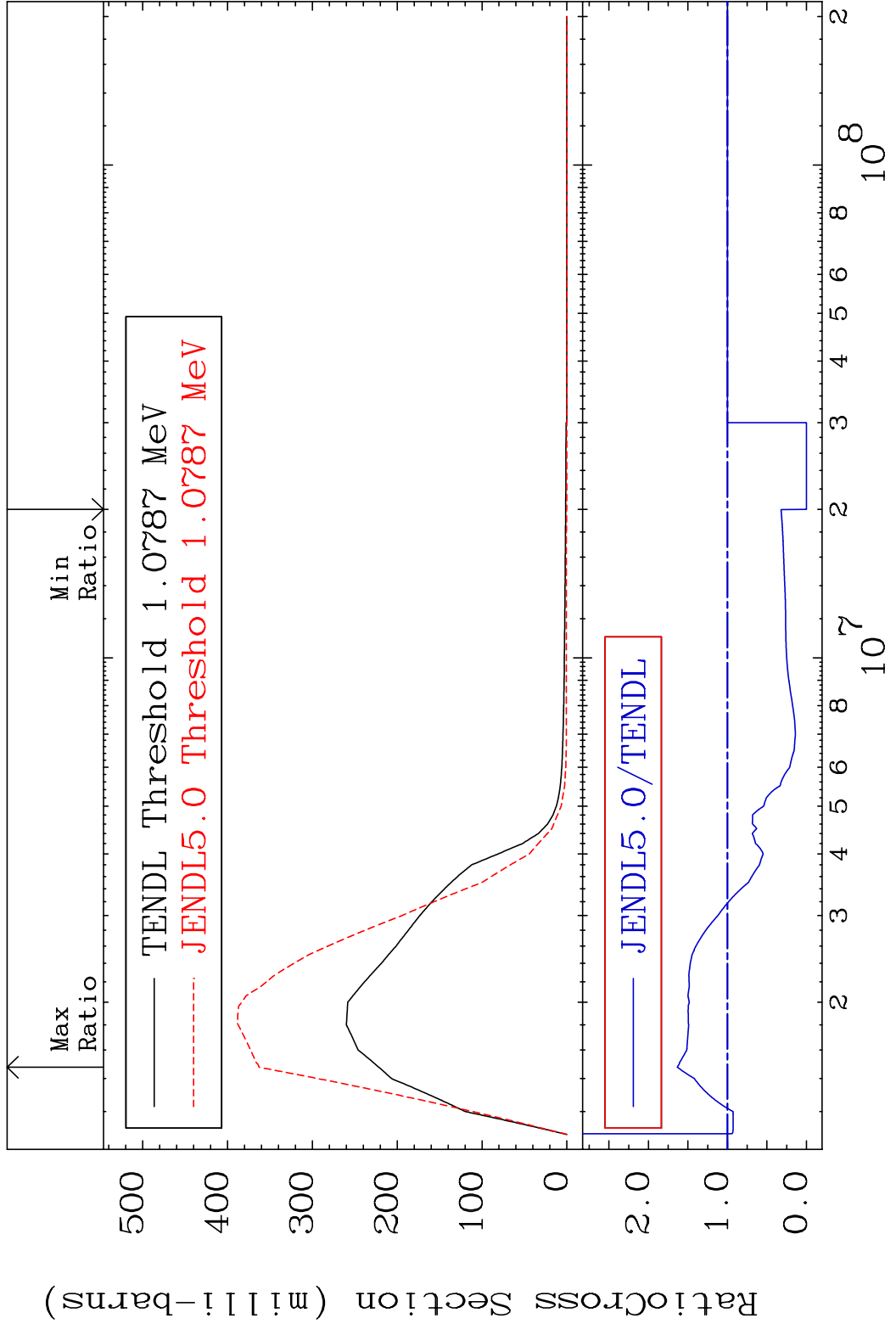
10 100 1000 10000 100000 1000000 10000000 100000000 1000000000 80-Hg-194

MAT 8019 MT= 52 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 364.0 %

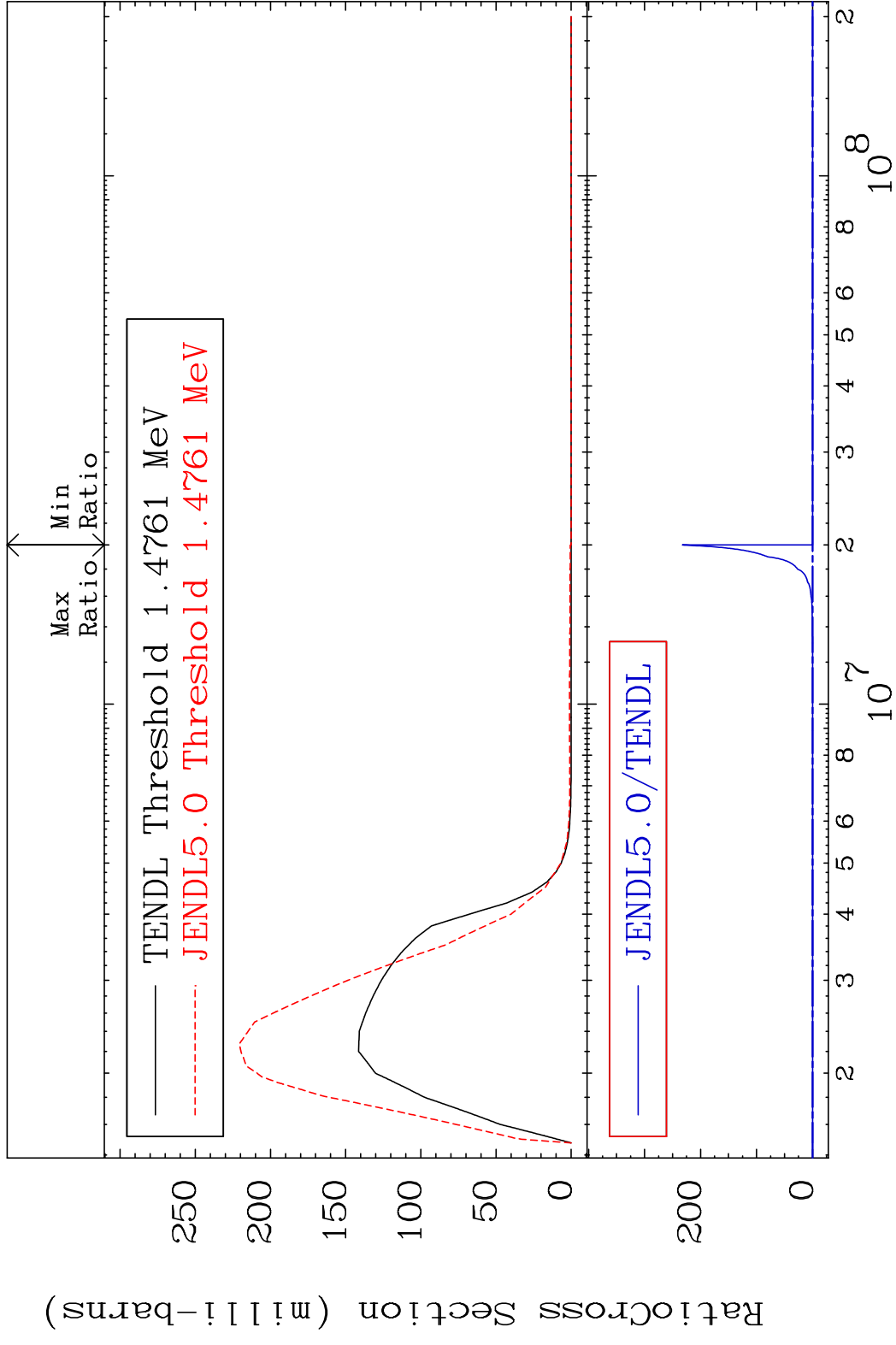


11 Incident Energy (eV) 80-Hg-194

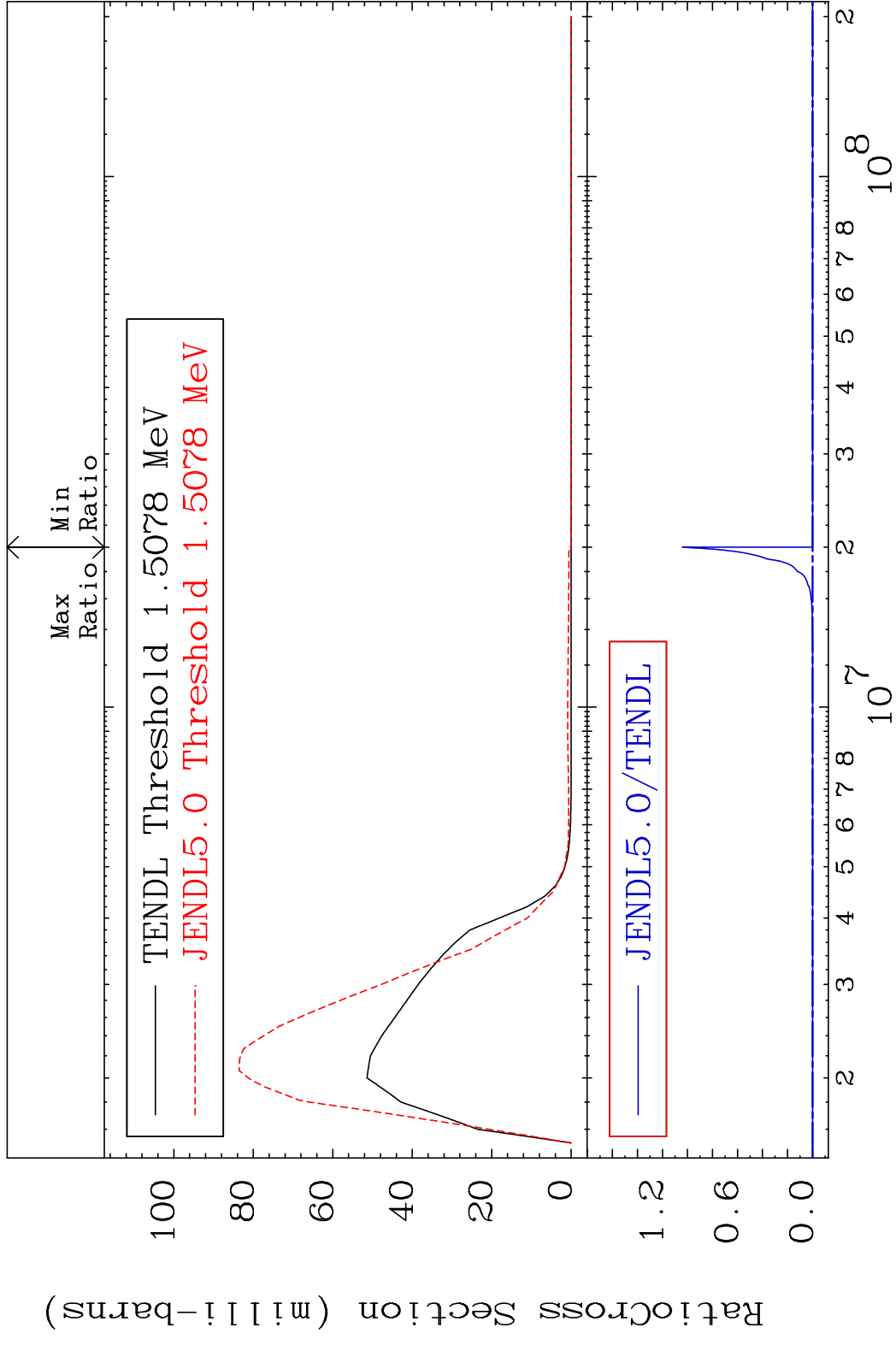
MAT 8019      MT= 53 (n, n') Level      80-Hg-194  
 Cross Section    -100.0 To 63.62 %



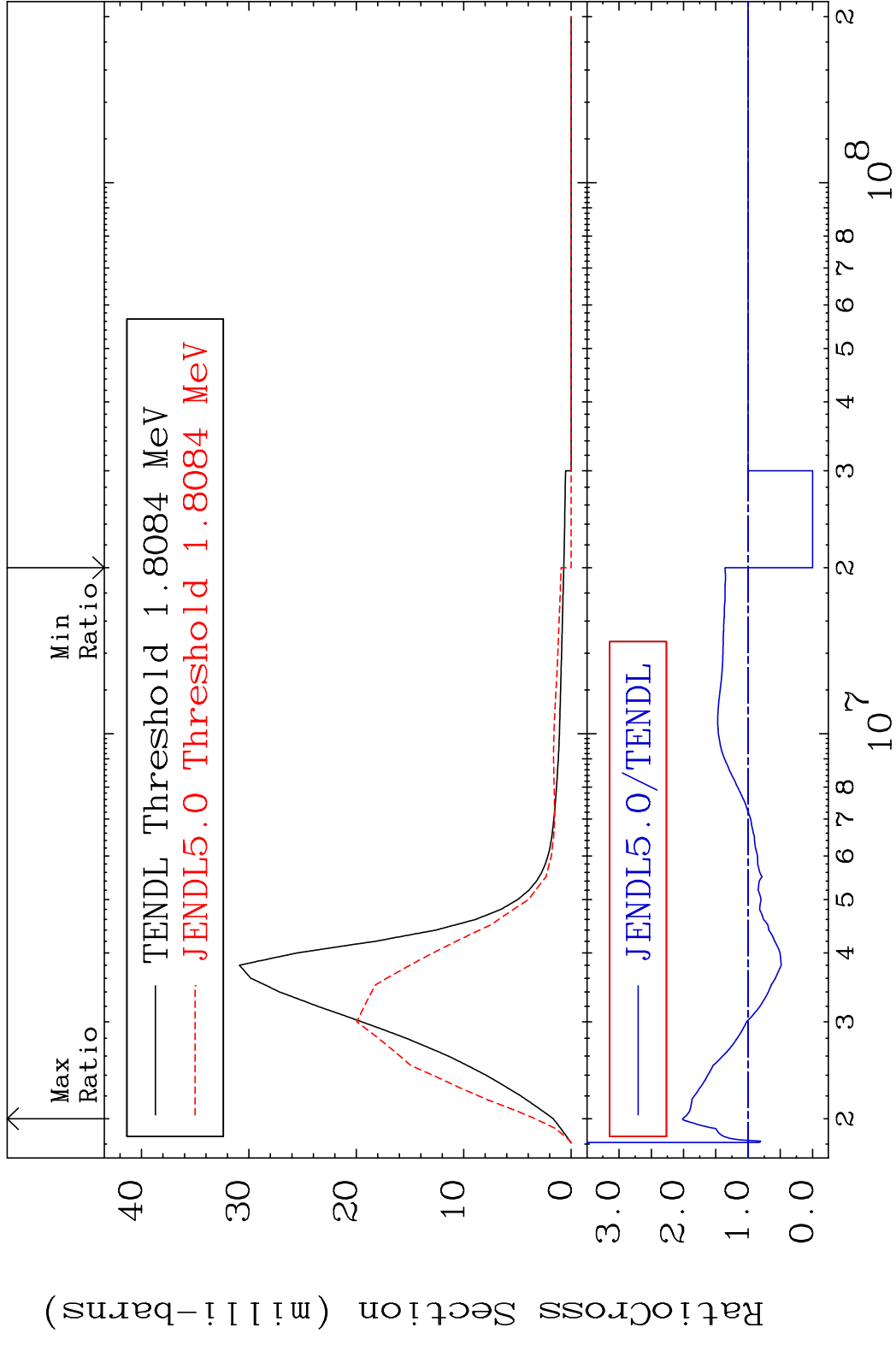
MAT 8019 MT= 54 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %



MAT 8019 MT= 55 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %

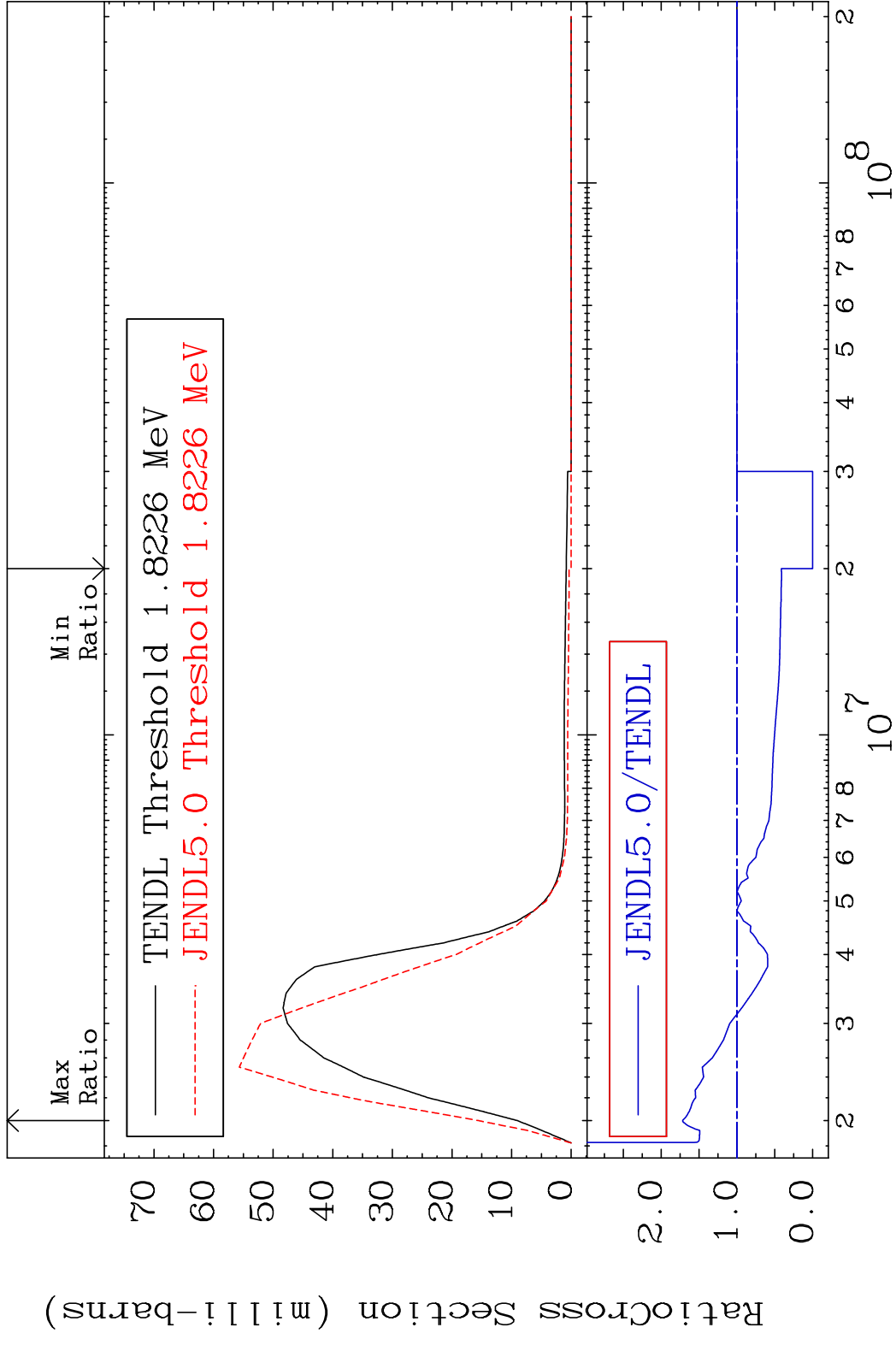


MAT 8019 MT= 56 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 101.8 %

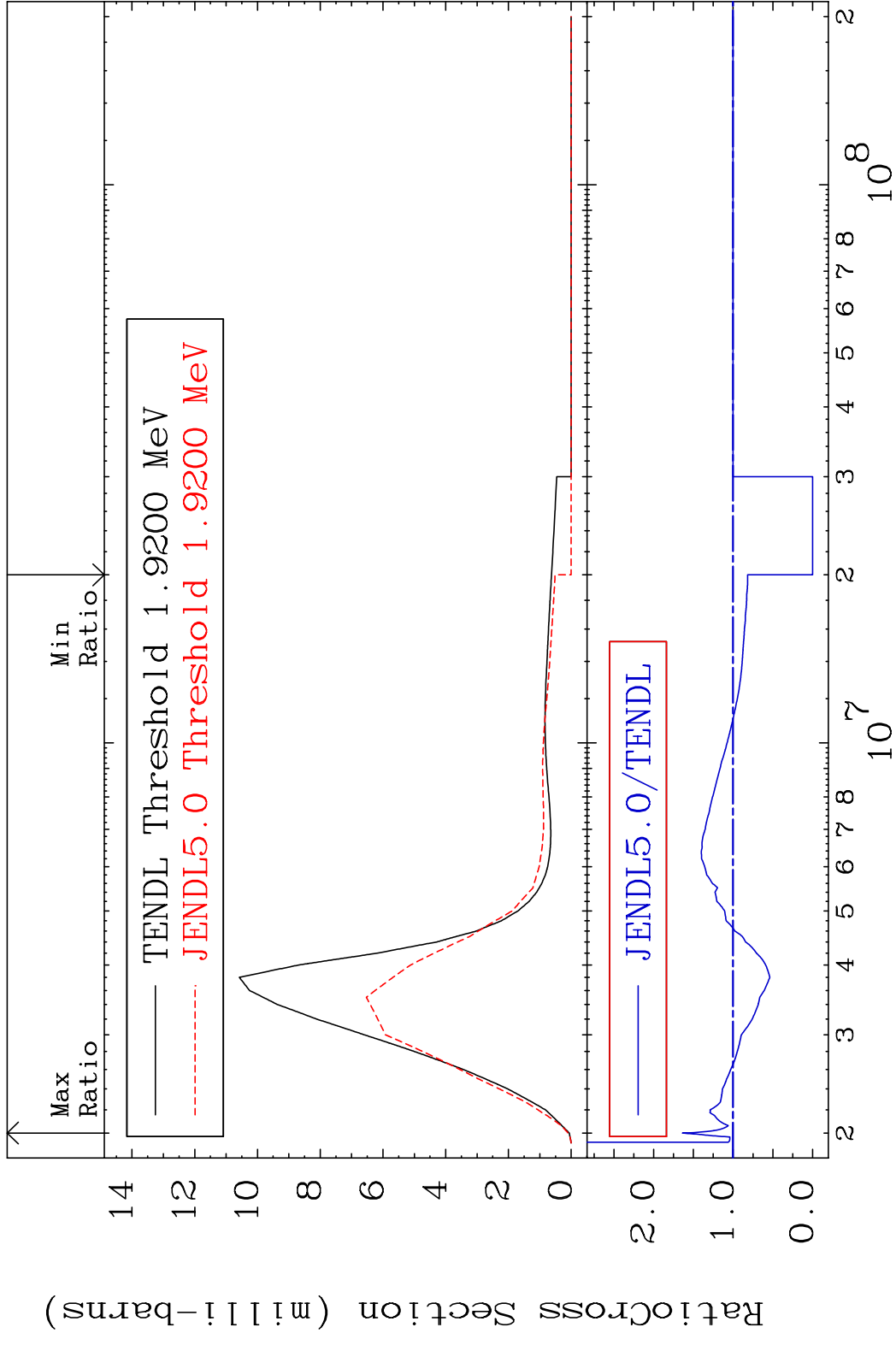


15 80-Hg-194

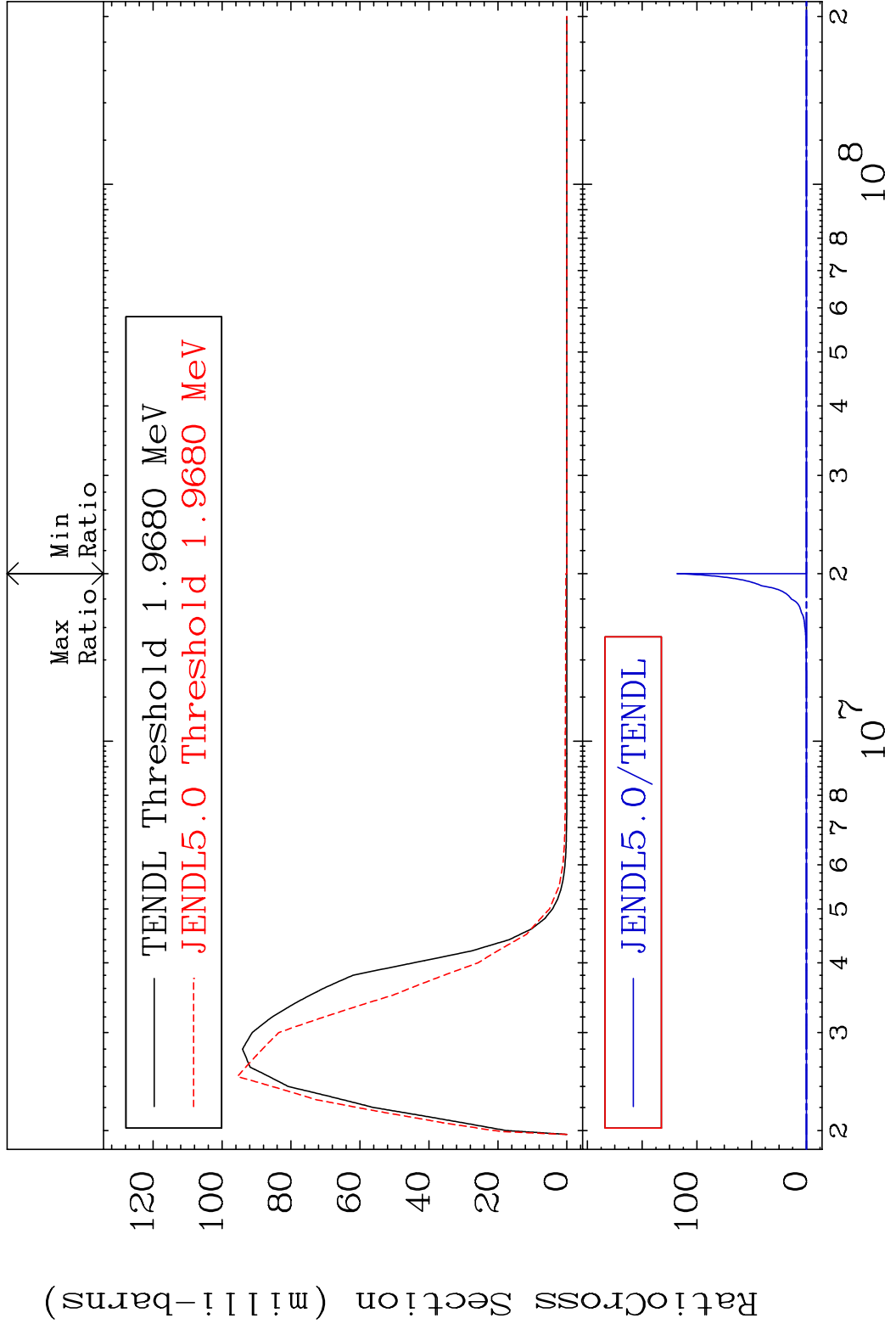
MAT 8019 MT= 57 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 72.04 %



MAT 8019 MT= 58 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 63.91 %

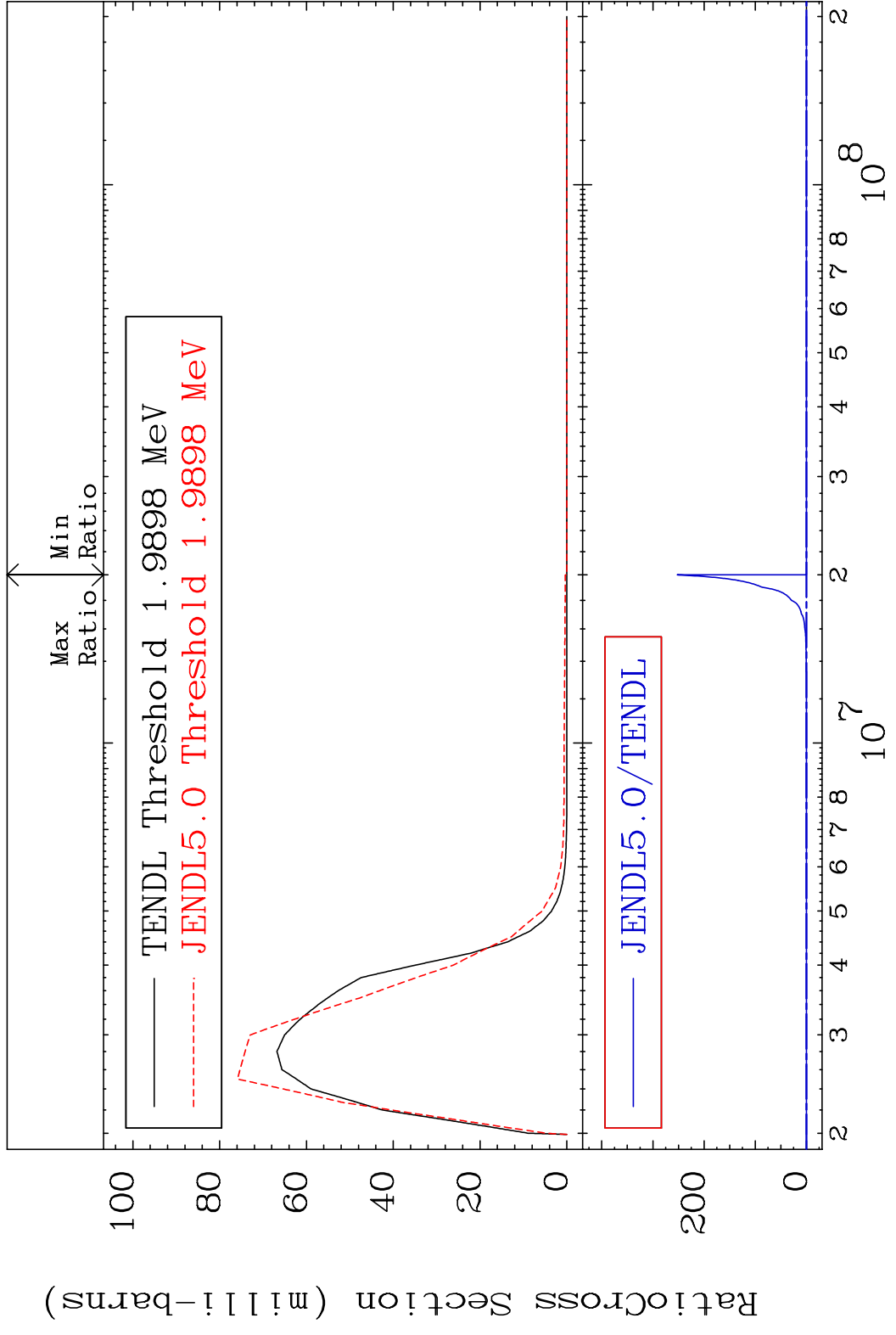


MAT 8019 MT= 59 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %



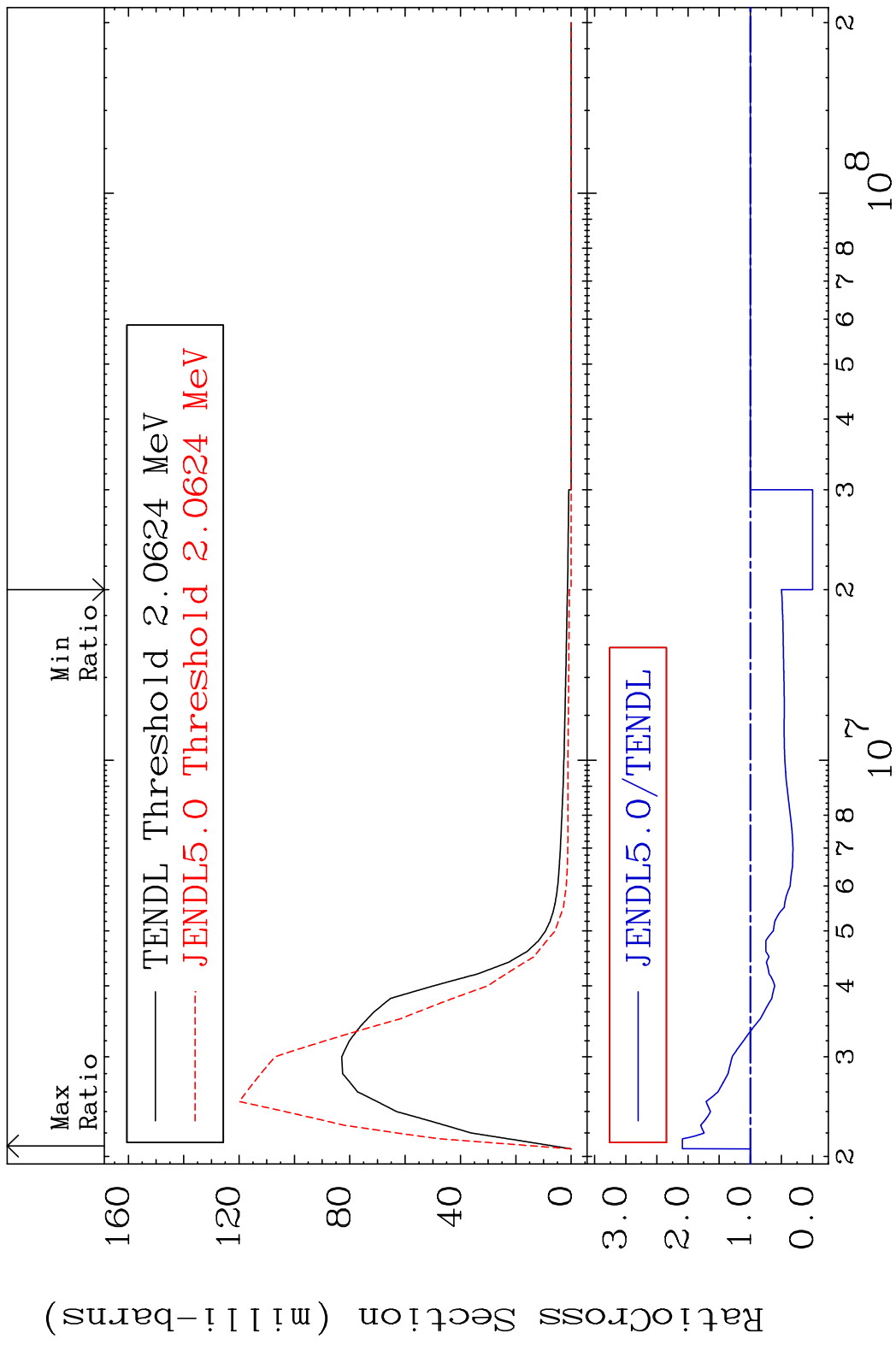
18 80-Hg-194

MAT 8019 MT= 60 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %



19 80-Hg-194

MAT 8019 MT= 61 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 109.1 %

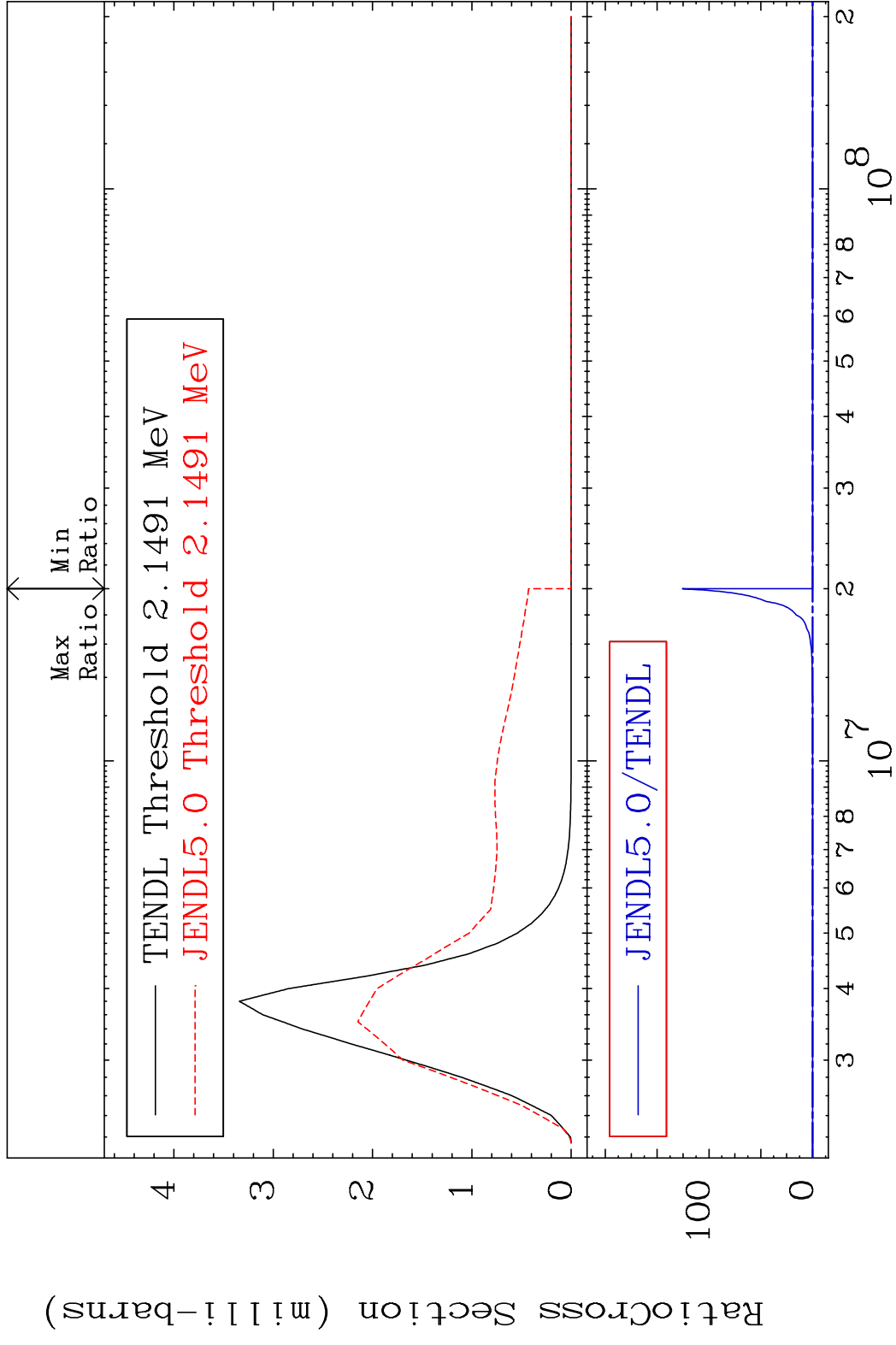


20

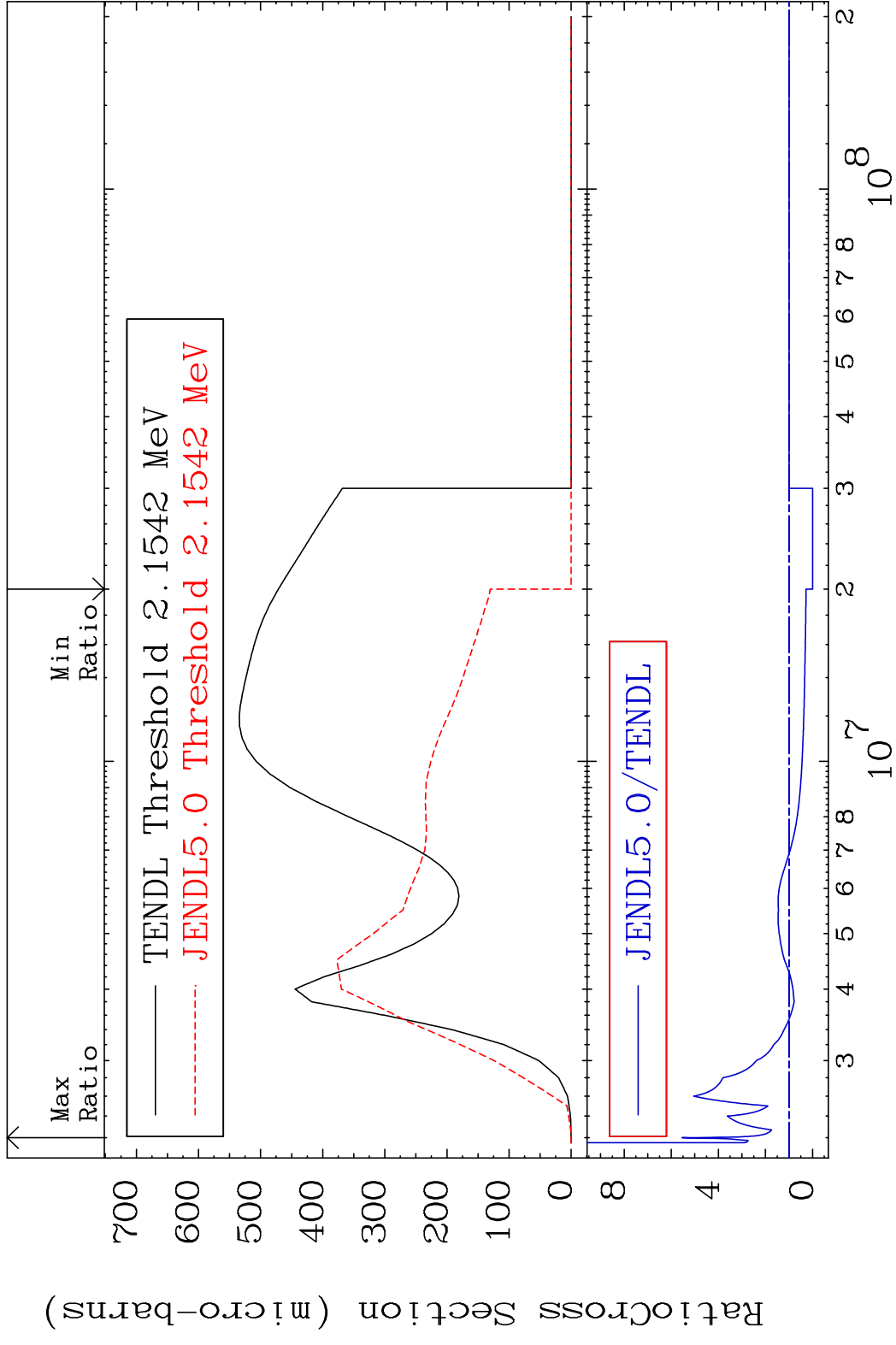
Incident Energy (eV)

80-Hg-194

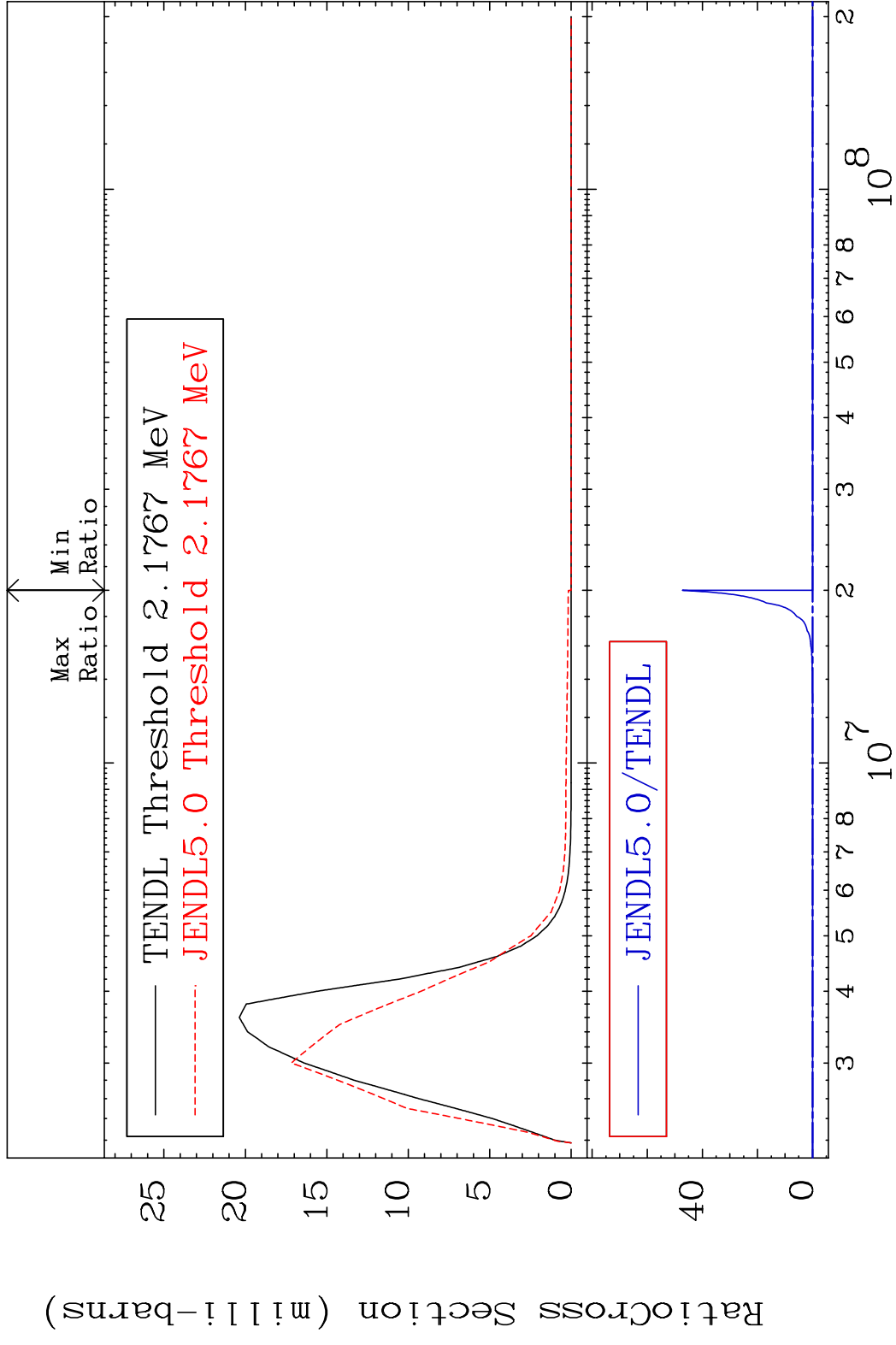
MAT 8019 MT= 62 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %



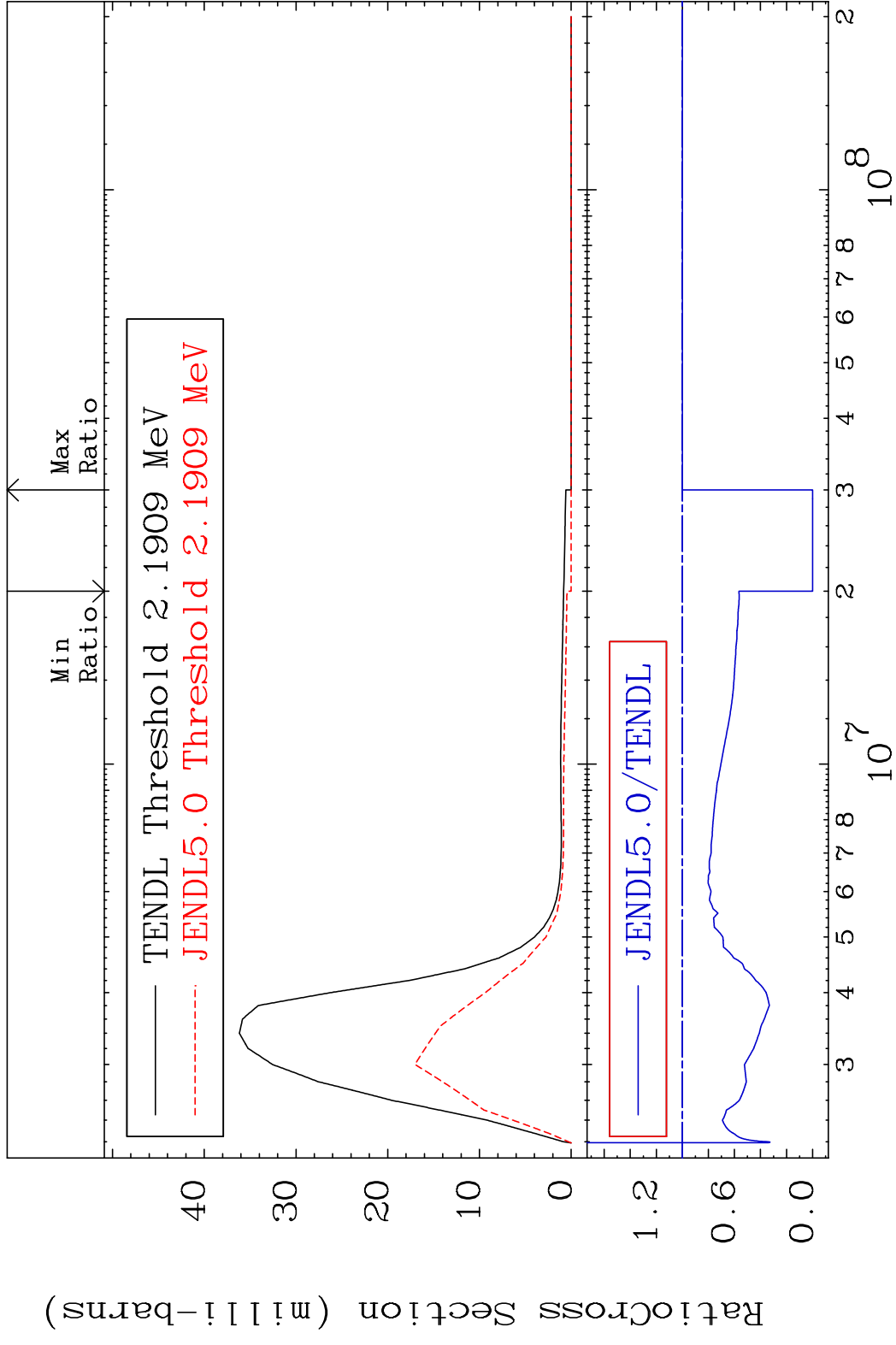
MAT 8019 MT= 63 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 452.9 %



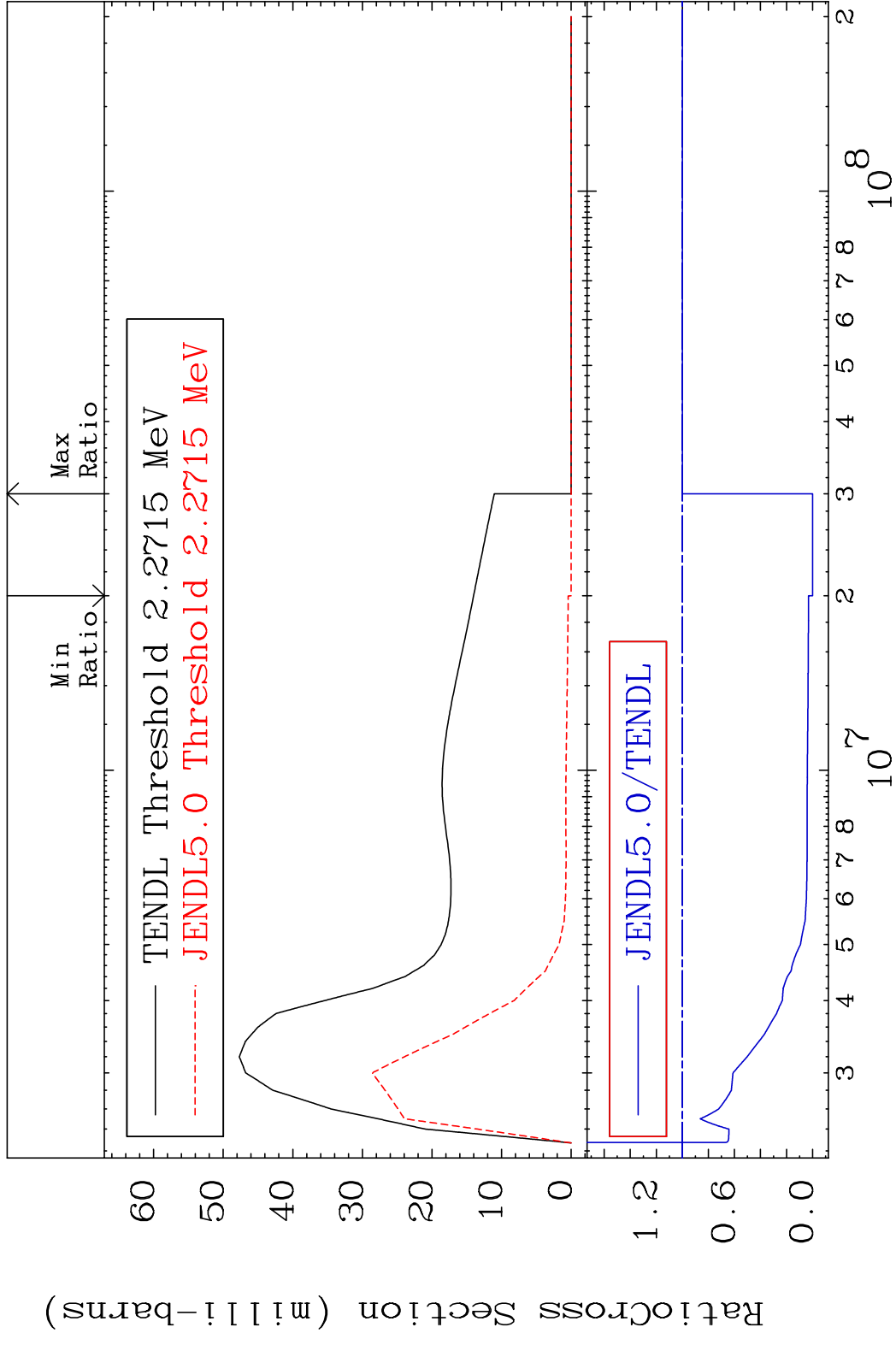
MAT 8019 MT= 64 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 9999. %



MAT 8019 MT= 65 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 0.000 %



MAT 8019 MT= 66 (n, n') Level 80-Hg-194  
 Cross Section -100.0 To 0.000 %



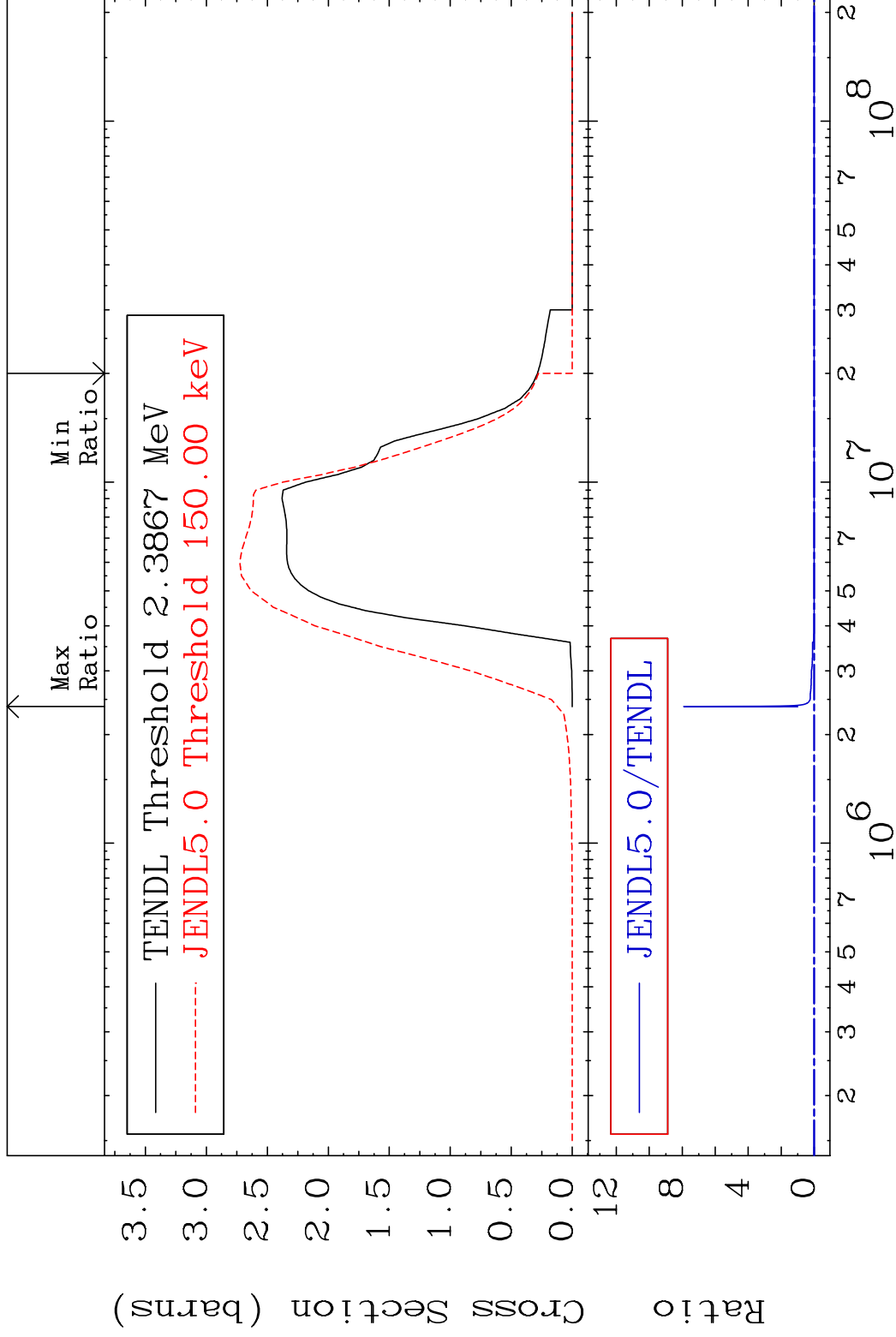
25 80-Hg-194

MAT 8019

(n, n') Continuum

80-Hg-194

Cross Section -100.0 To 9999. %



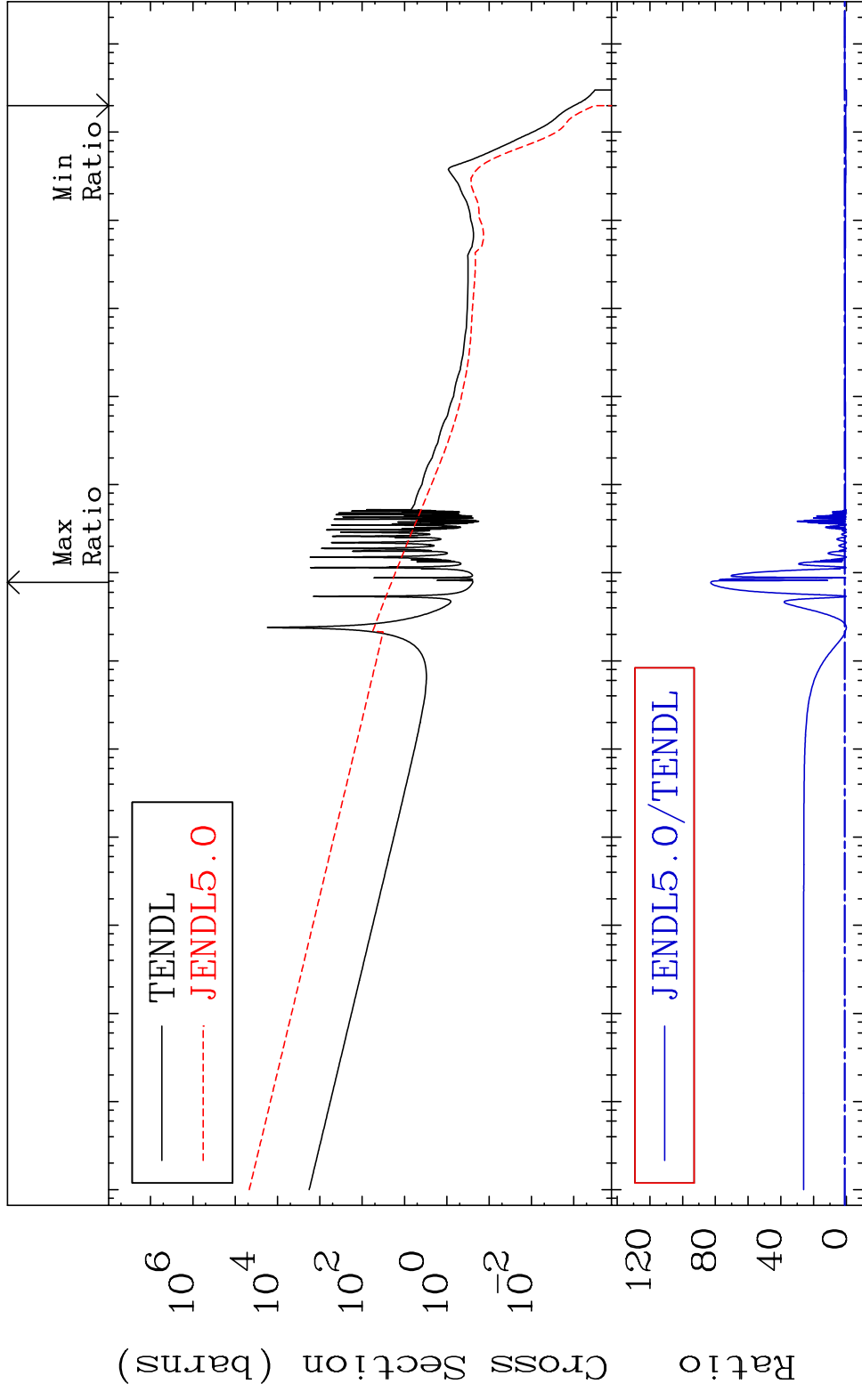
26

Incident Energy (eV)

80-Hg-194

MAT 8019

(n,  $\gamma$ )  
Cross Section -100.0 To 8183. %  
80-Hg-194



27

Incident Energy (eV)

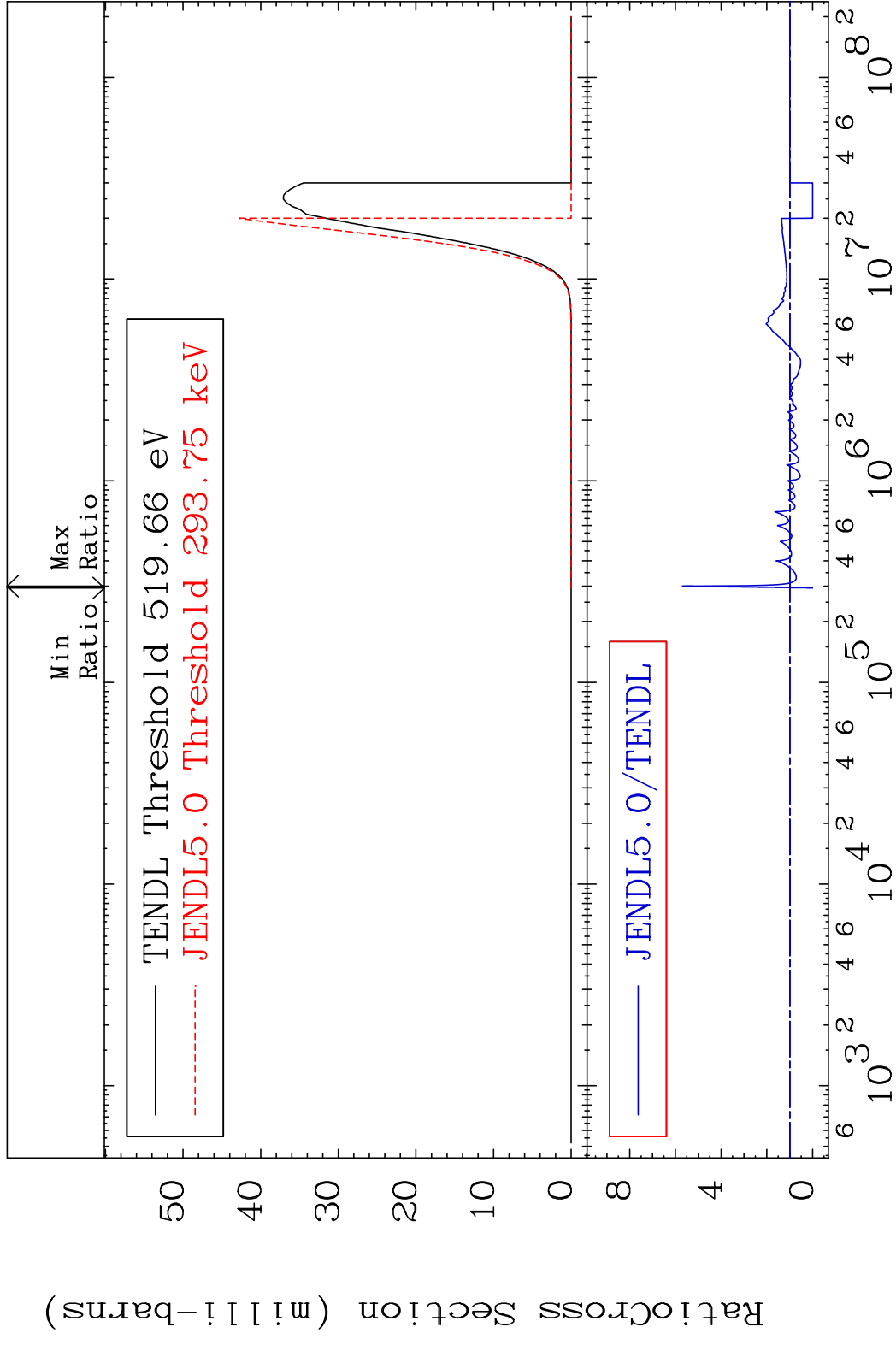
80-Hg-194

MAT 8019

(n, p)

80-Hg-194

Cross Section -100.0 To 469.6 %



28

Incident Energy (eV)

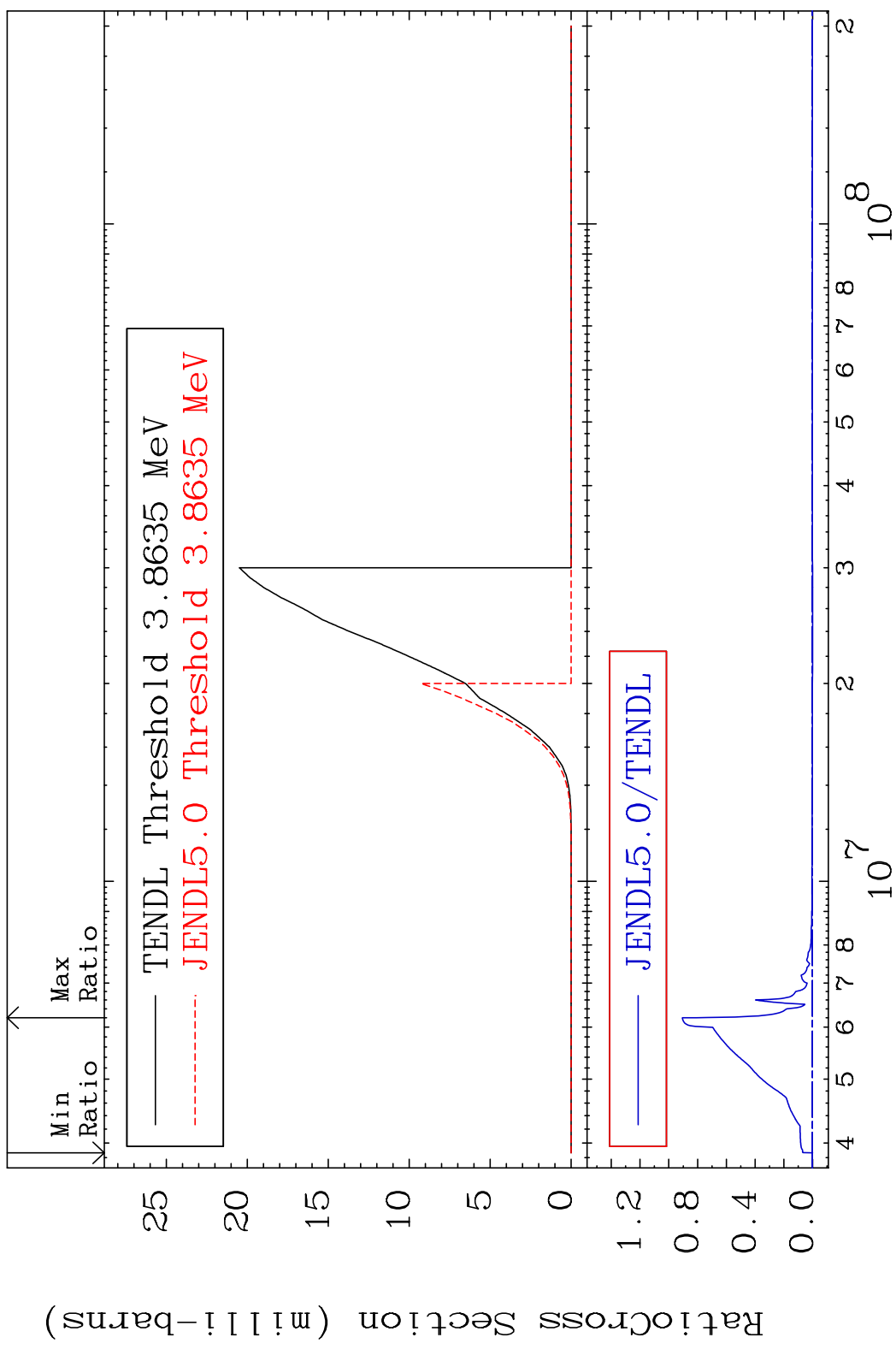
80-Hg-194

MAT 8019

(n,d)

80-Hg-194

Cross Section -100.0 To 9999. %

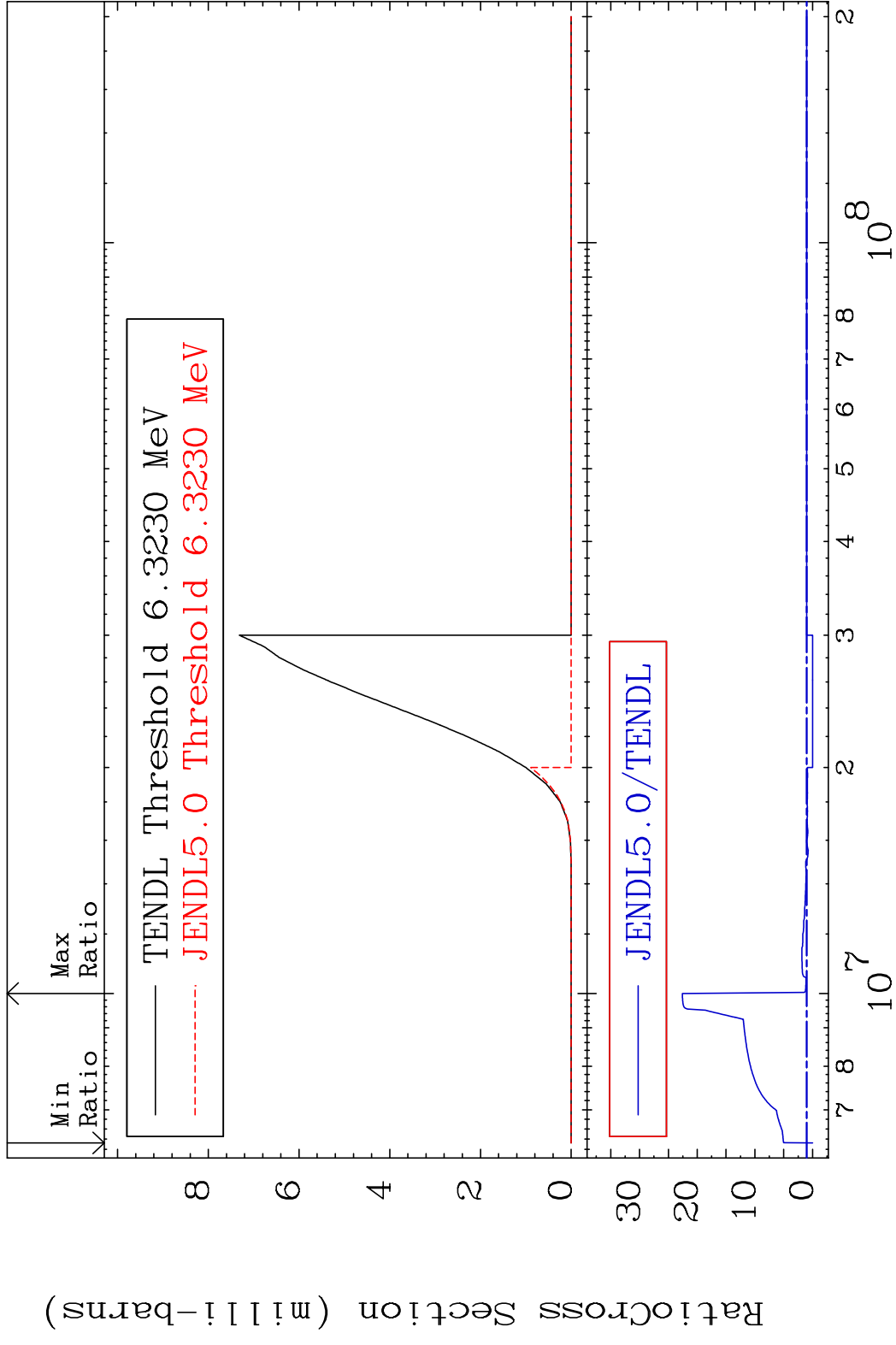


MAT 8019

(n, t)

80-Hg-194

Cross Section -100.0 To 2158. %

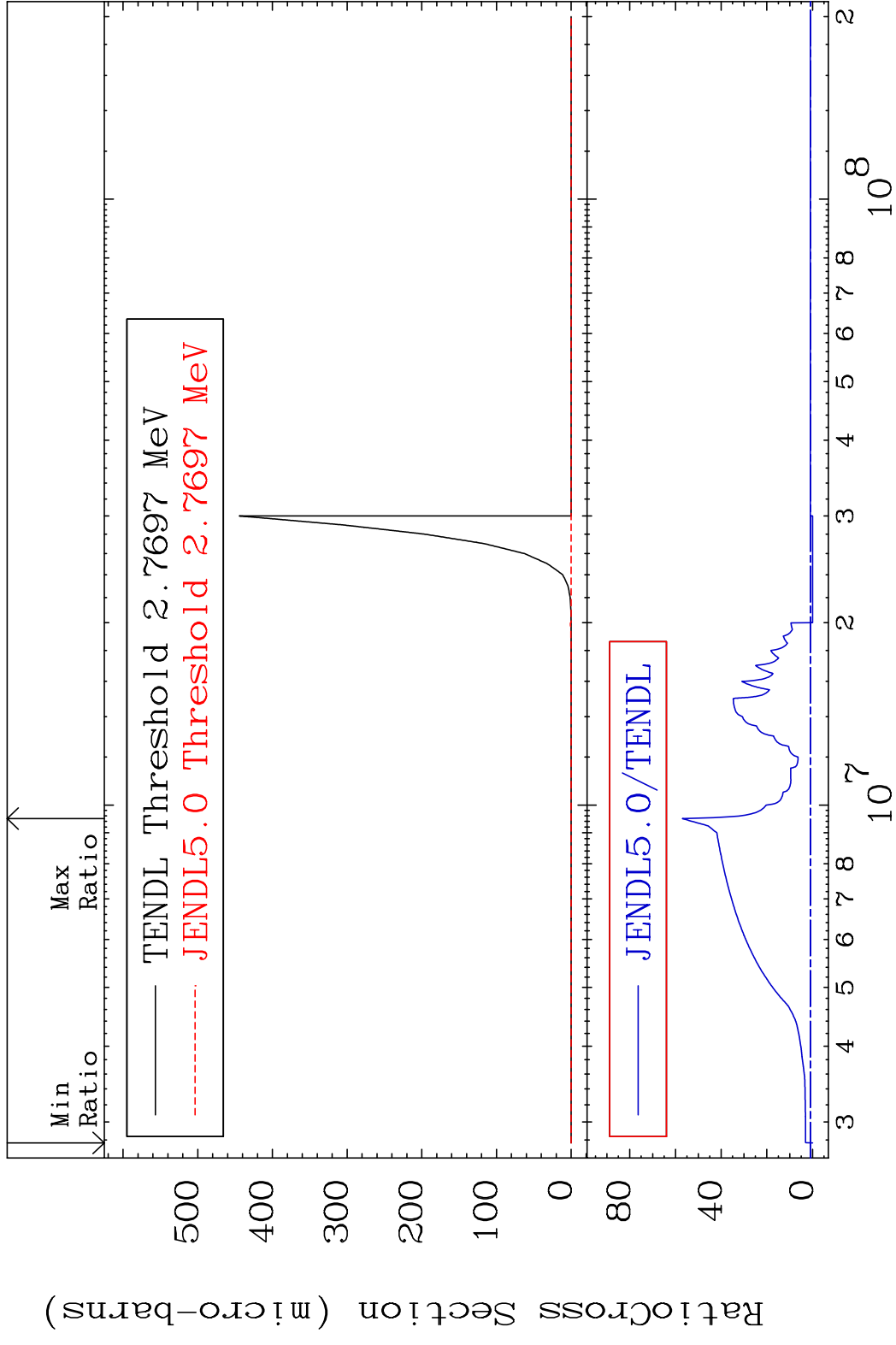


30

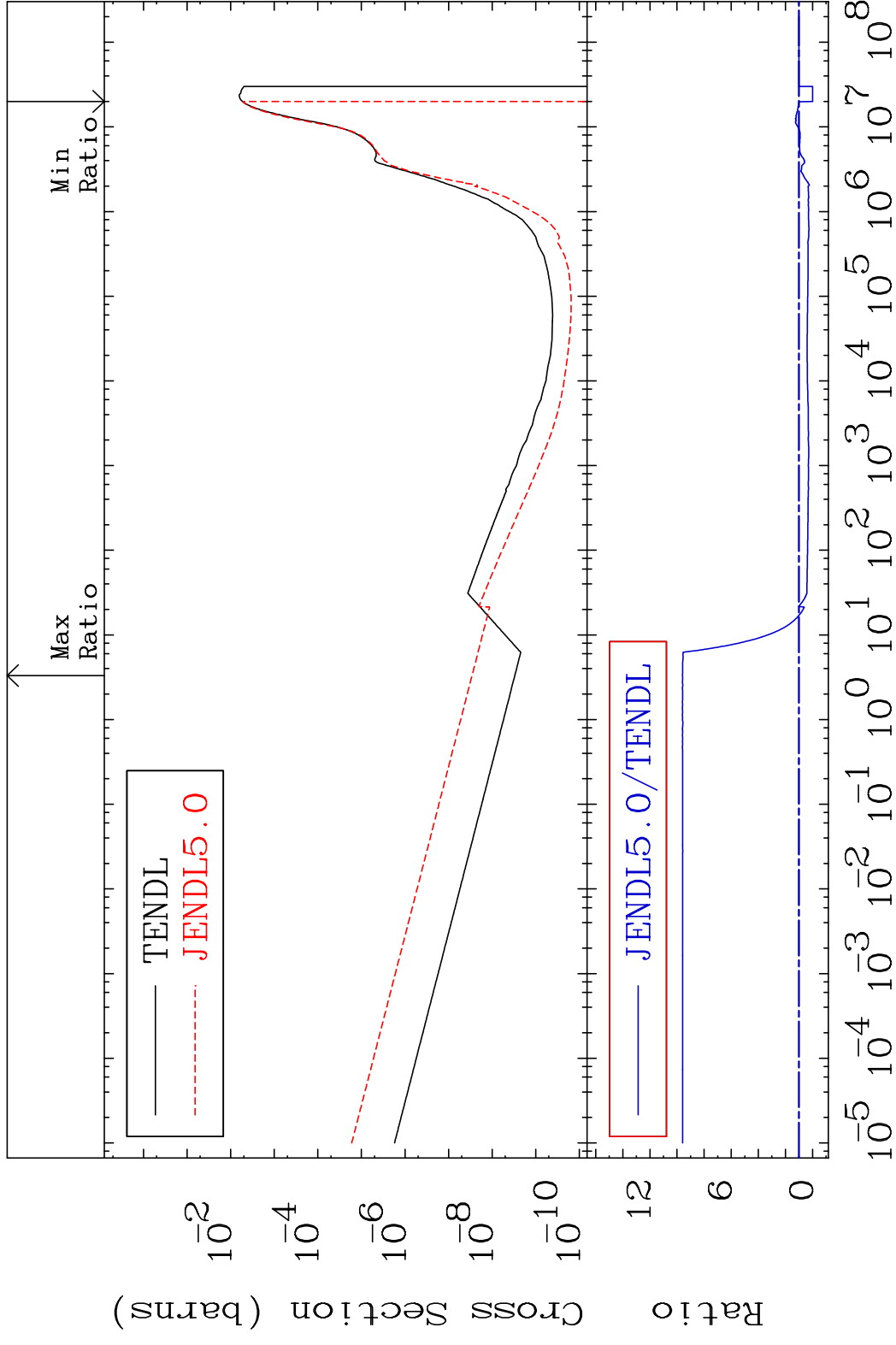
Incident Energy (eV)

80-Hg-194

MAT 8019 (n, He-3) 80-Hg-194  
 Cross Section -100.0 To 5599. %

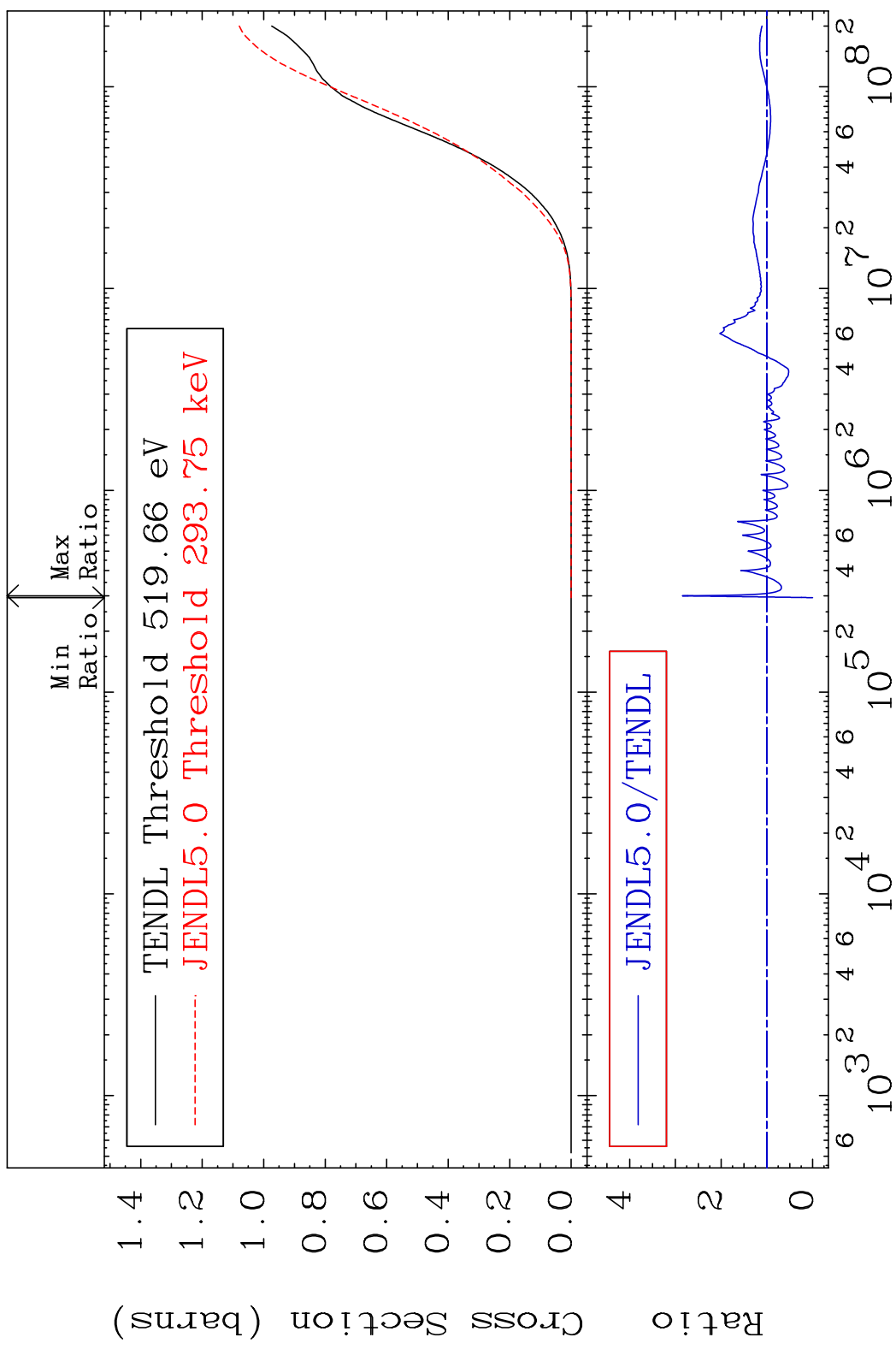


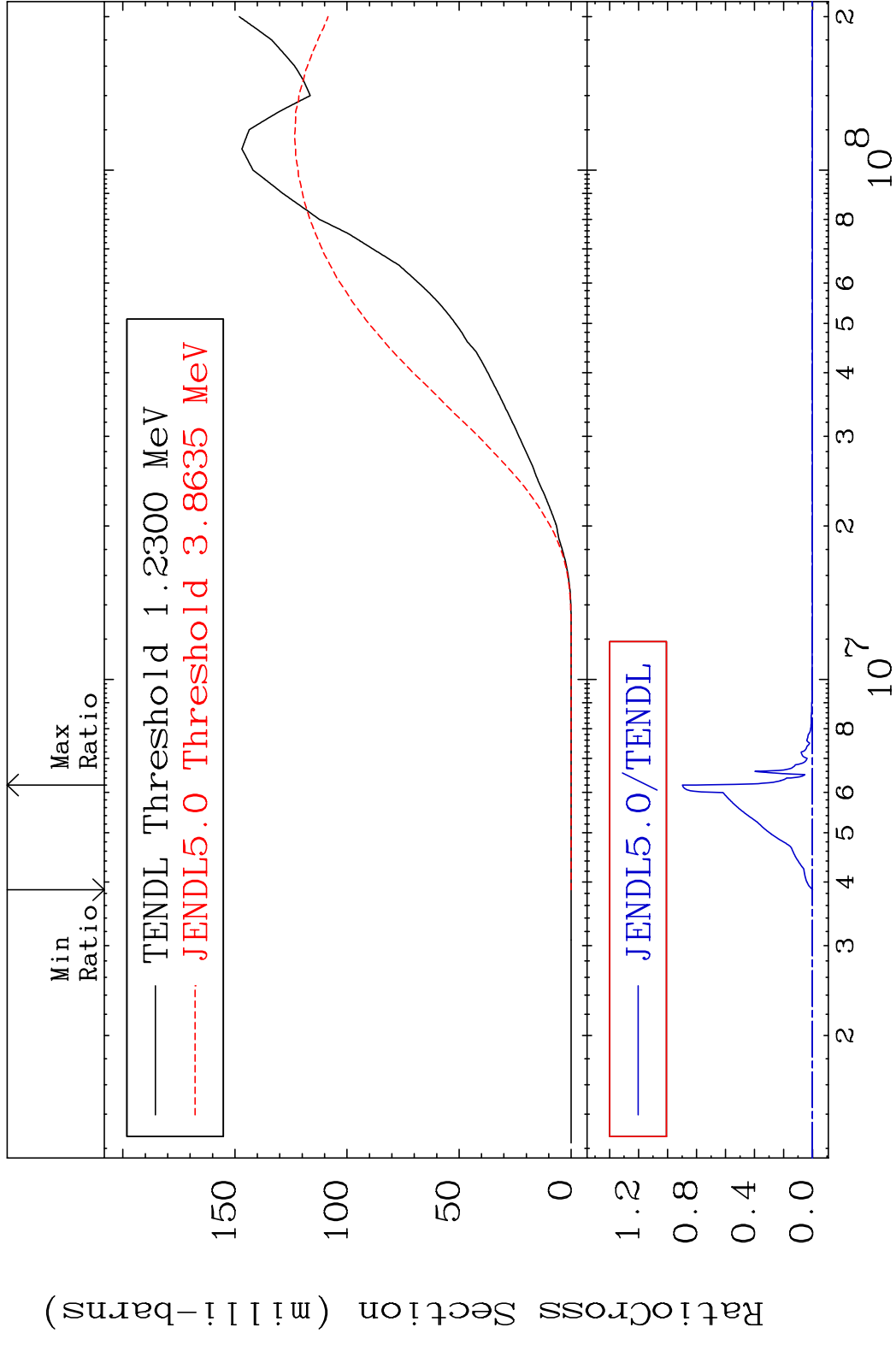
MAT 8019 (n,  $\alpha$ ) 80-Hg-194  
Cross Section -100.0 To 860.6 %



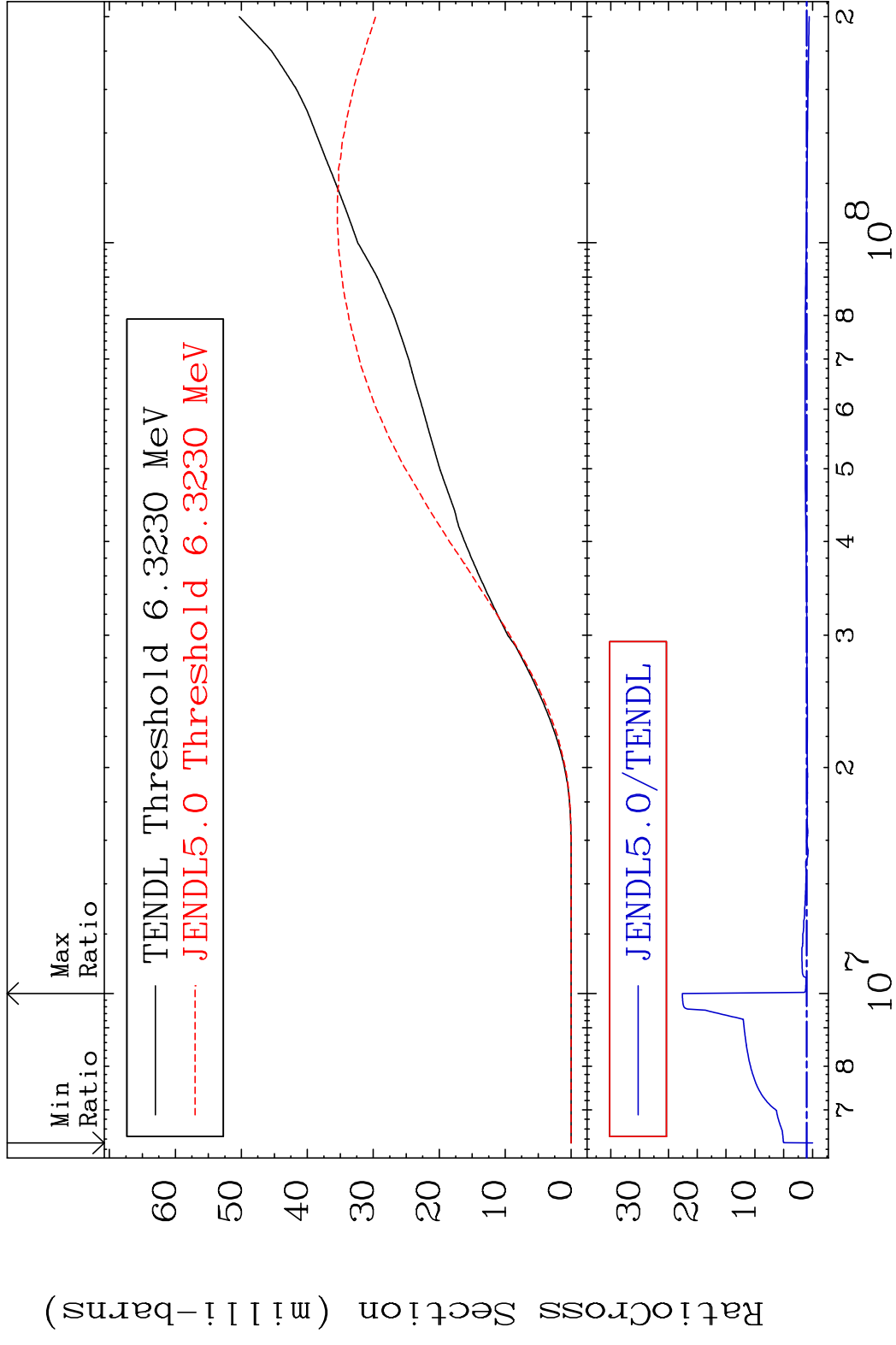
32 Incident Energy (eV) 80-Hg-194

Cross Section -100.0 To 184.8 %





MAT 8019 Tritium Production 80-Hg-194  
 Cross Section -100.0 To 2158. %



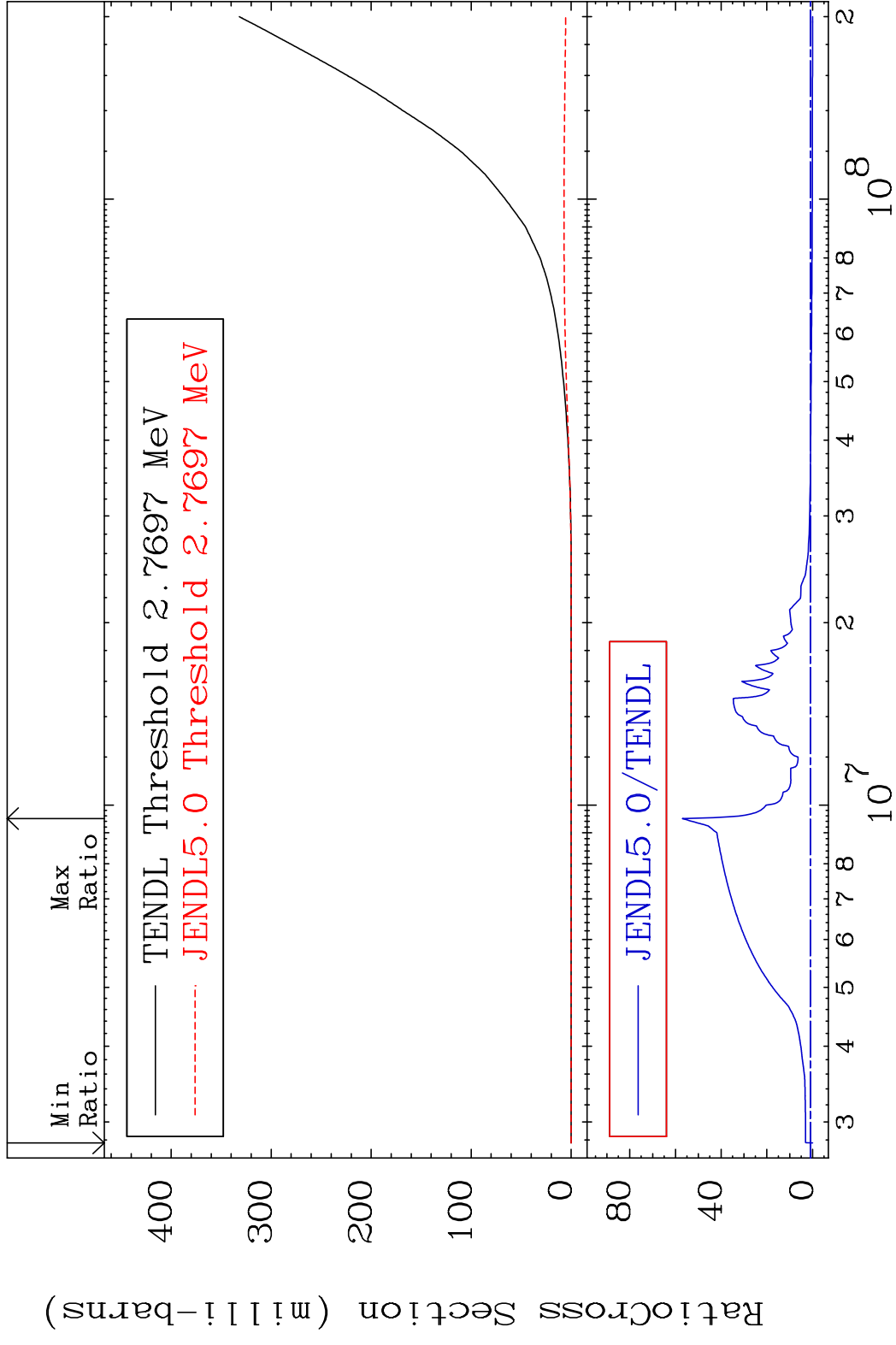
35 Incident Energy (eV) 80-Hg-194

MAT 8019

He-3 Production

80-Hg-194

Cross Section -100.0 To 5599. %

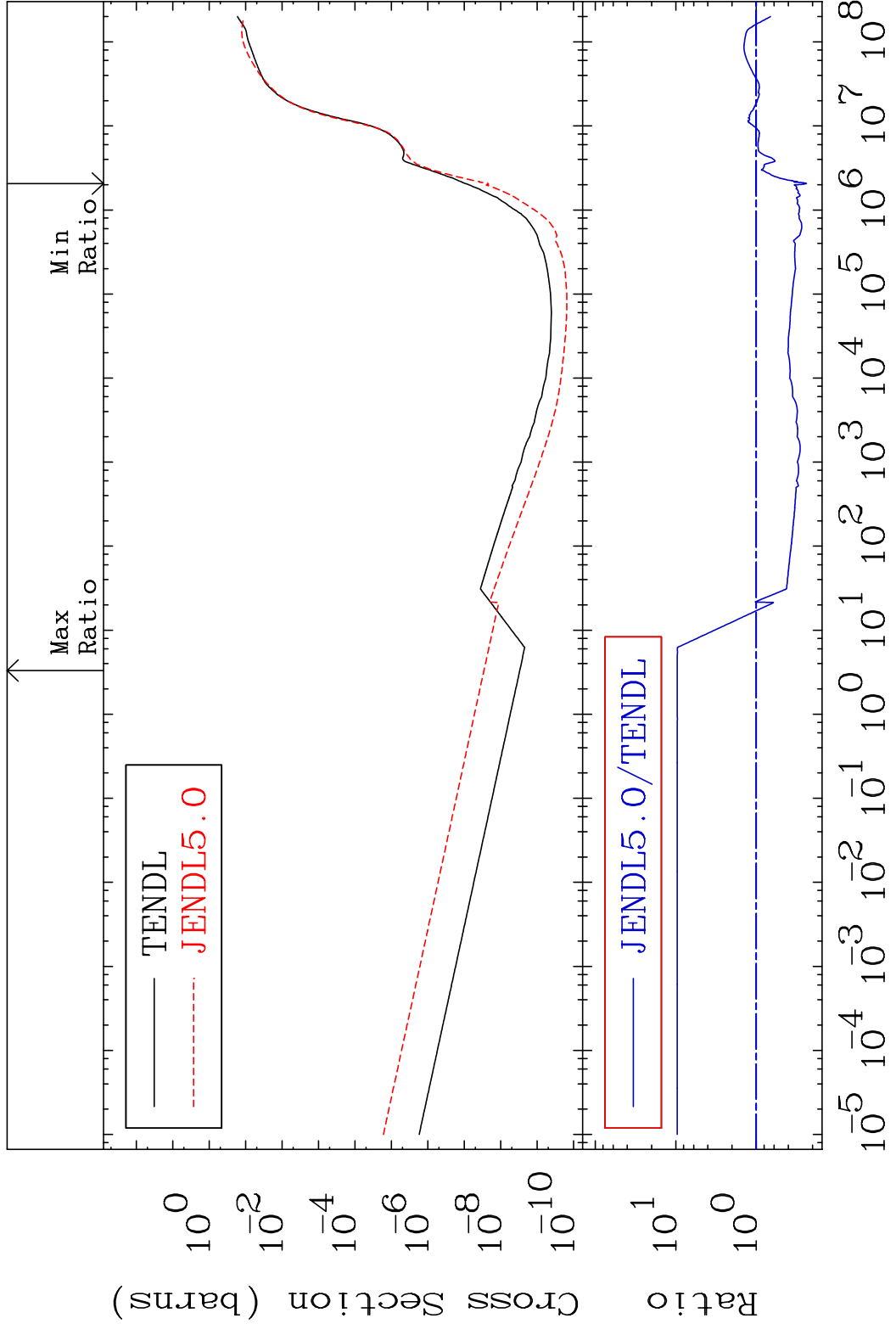


MAT 8019

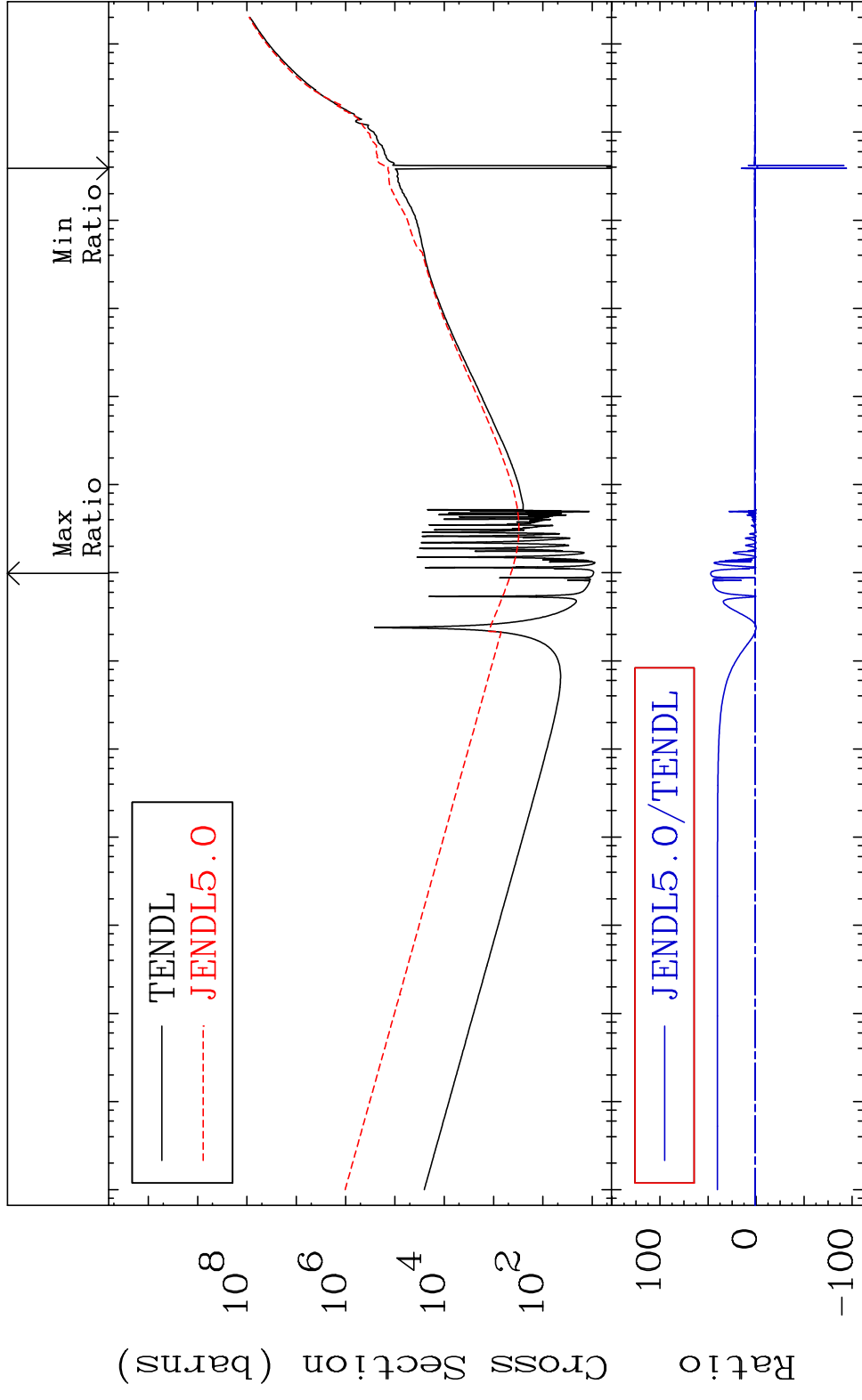
He-4 Production

80-Hg-194

Cross Section -76.13 To 860.6 %



MAT 8019 Kerma total (eV-barns) 80-Hg-194  
 Cross Section -9504. To 4620. %

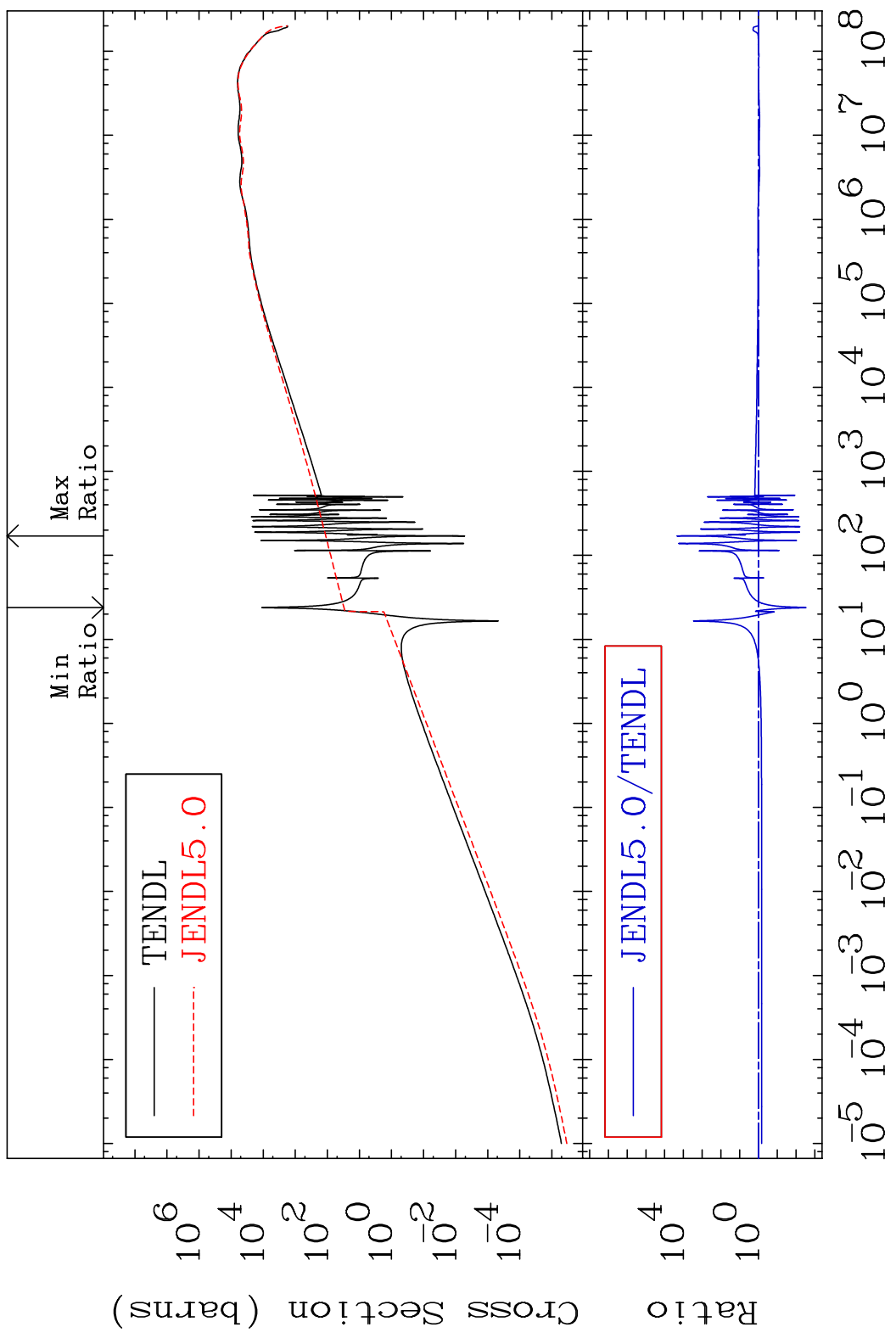


38 Incident Energy (eV) 80-Hg-194

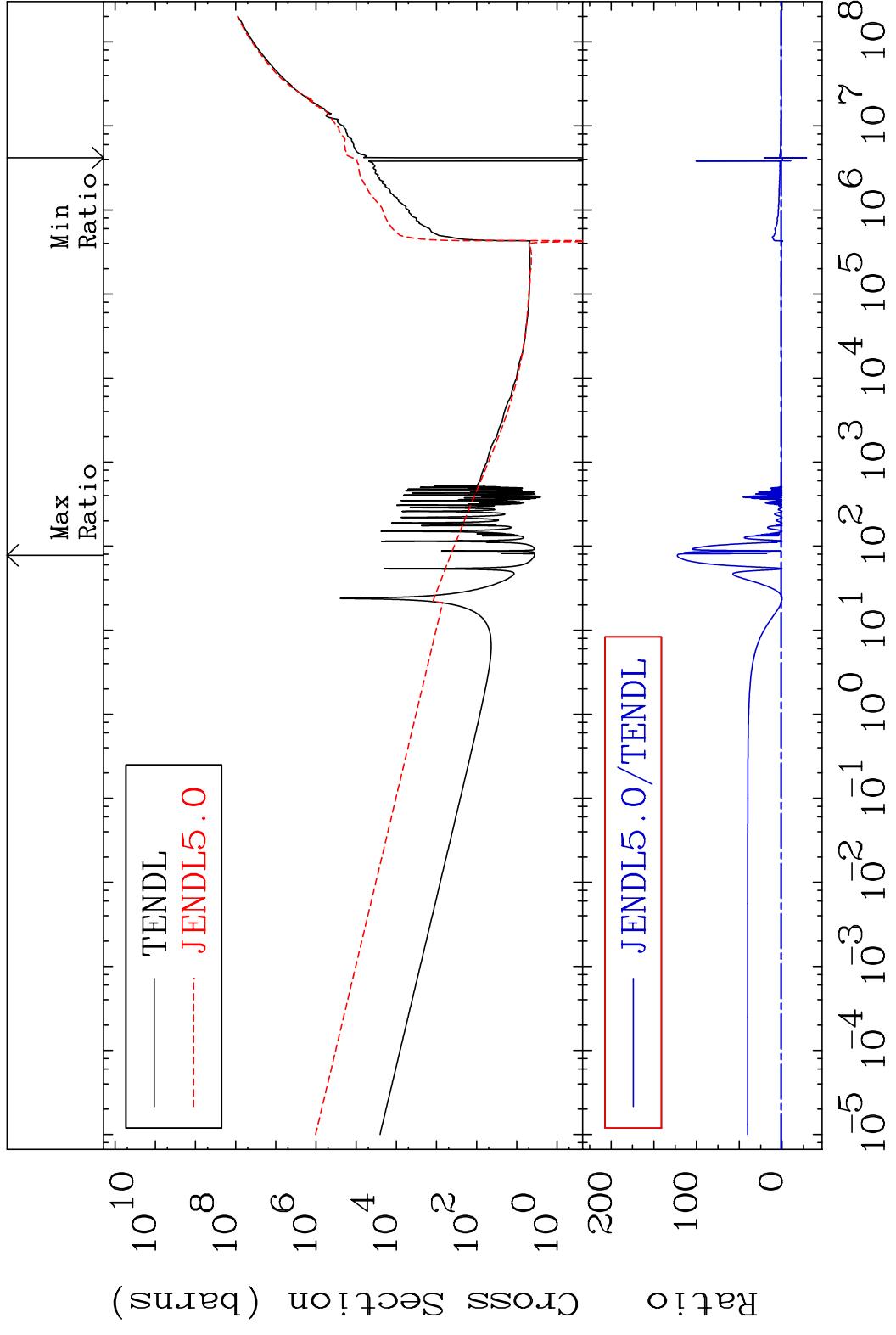
MAT 8019

Kerma elastic Cross Section -99.72 To 9999. %

80-Hg-194

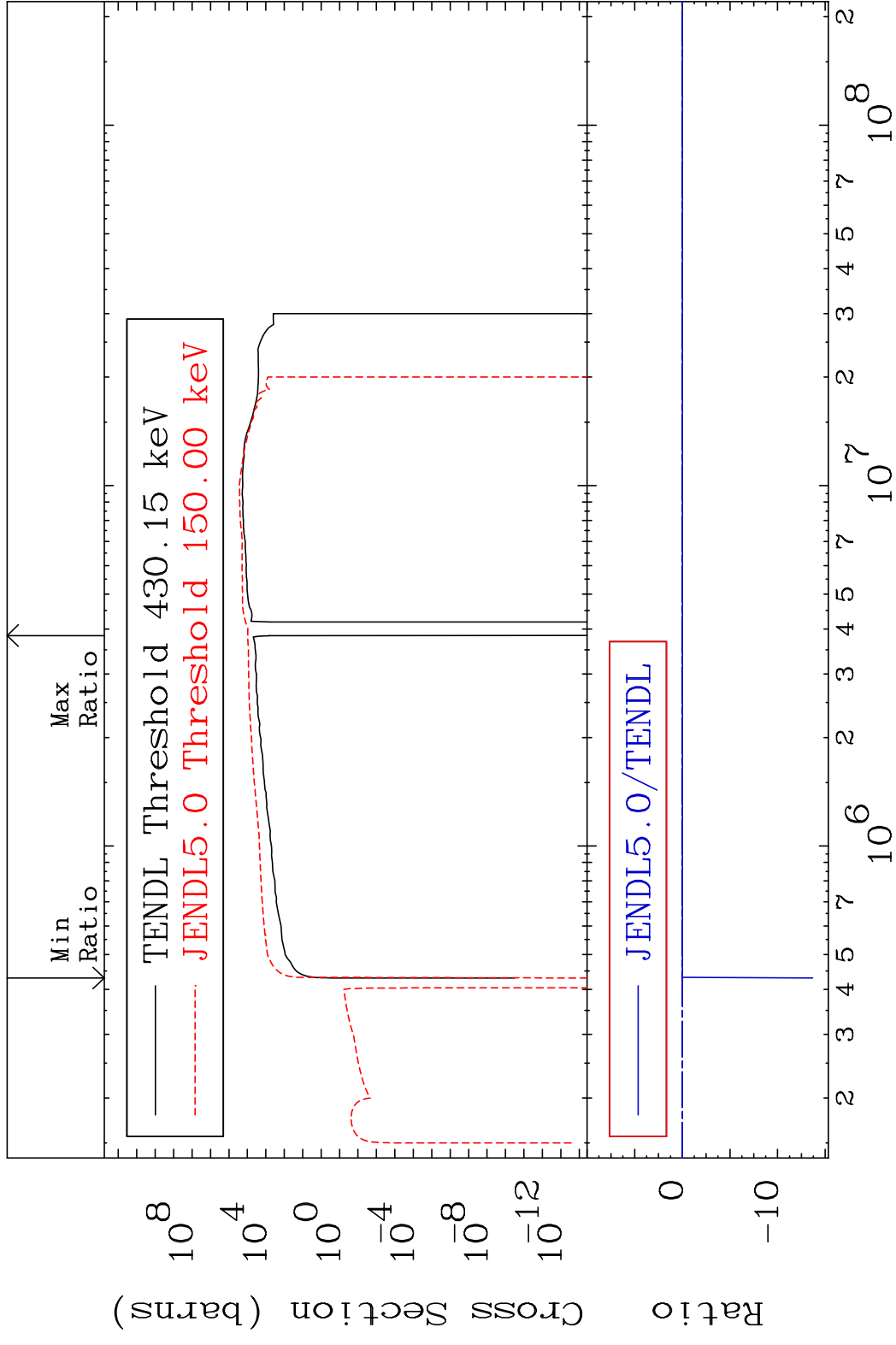


MAT 8019 Kerma non-elastic (all but mt2) 80-Hg-194  
 Cross Section -2946. To 9999. %

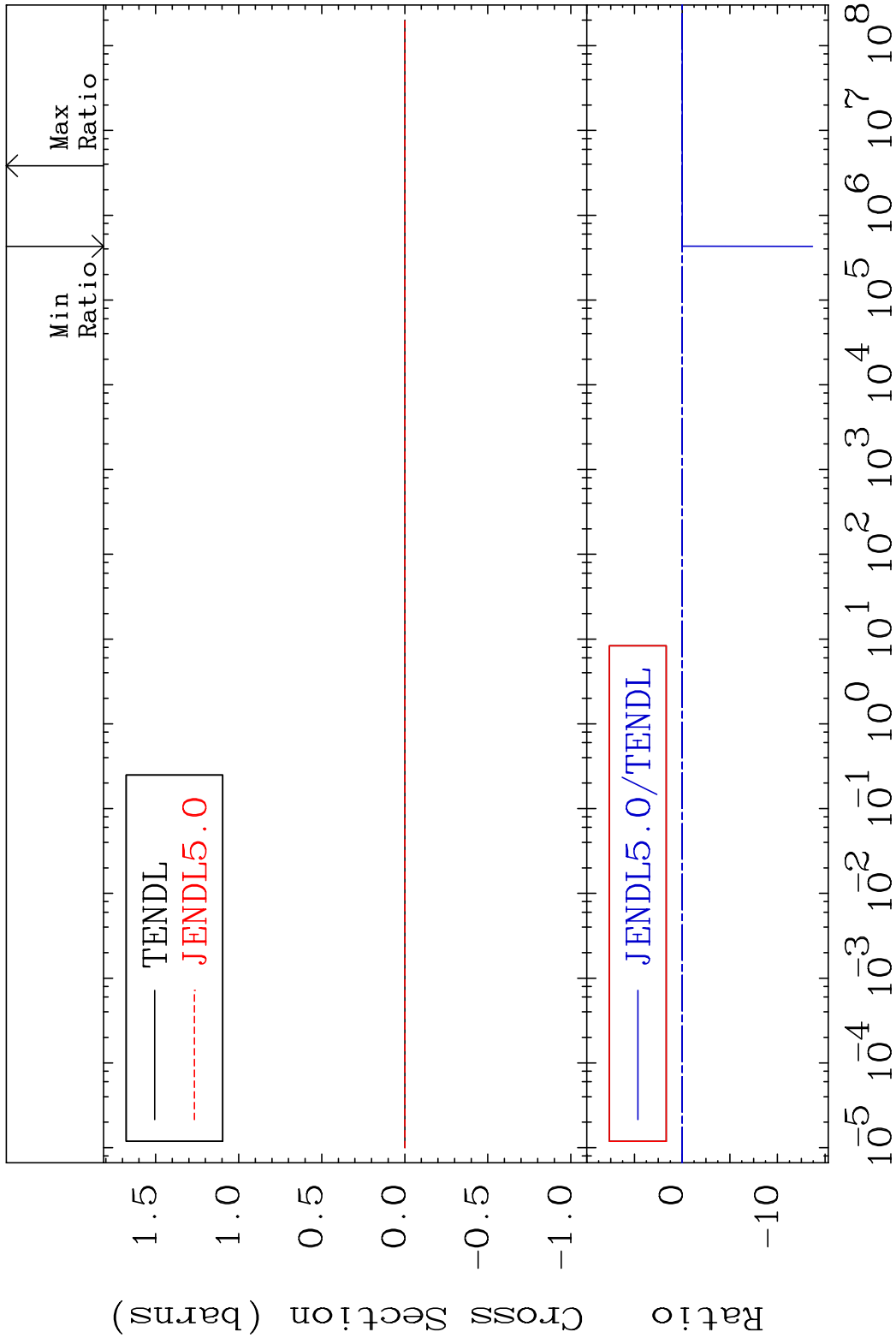


40 Incident Energy (eV) 80-Hg-194

MAT 8019 Kerma inelastic (mt51-91) 80-Hg-194  
 Cross Section -9999. To 9999. %

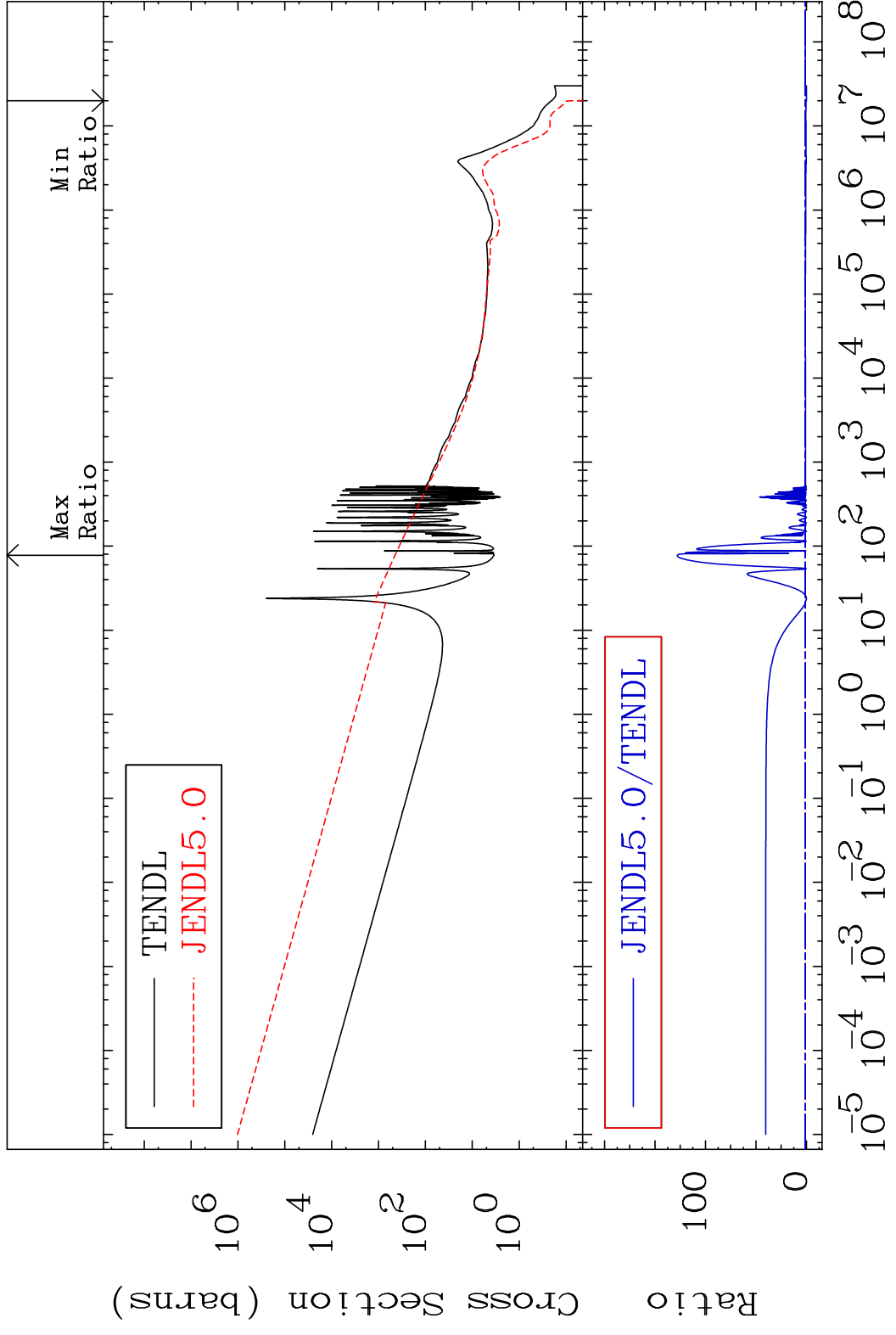


MAT 8019 Kerma fission (mt18 or mt19-20-21-38) 80-Hg-194  
 Cross Section -9999. To 9999. %



MAT 8019

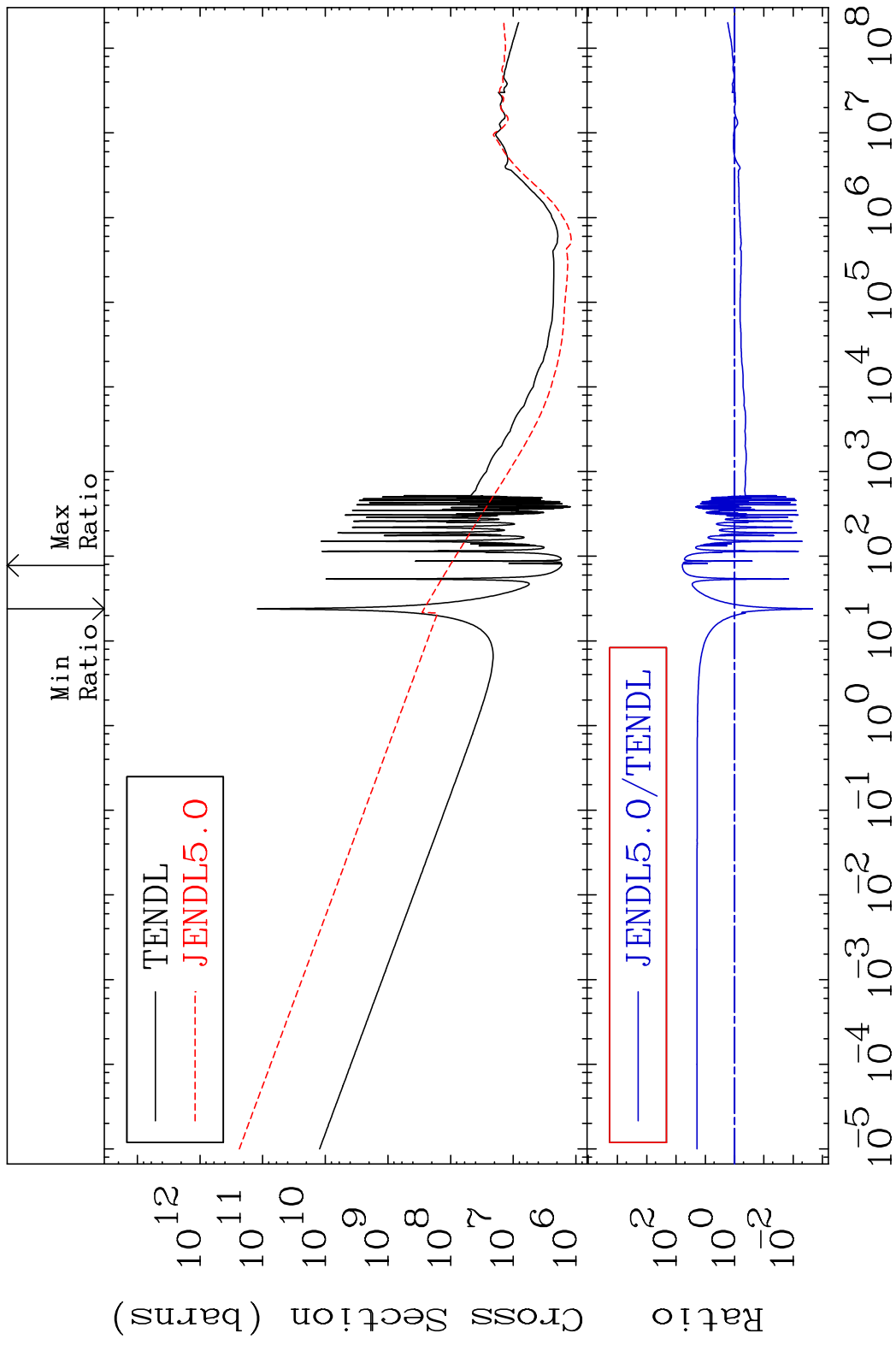
Kerma capture (mt102) 80-Hg-194  
Cross Section -100.0 To 9999. %



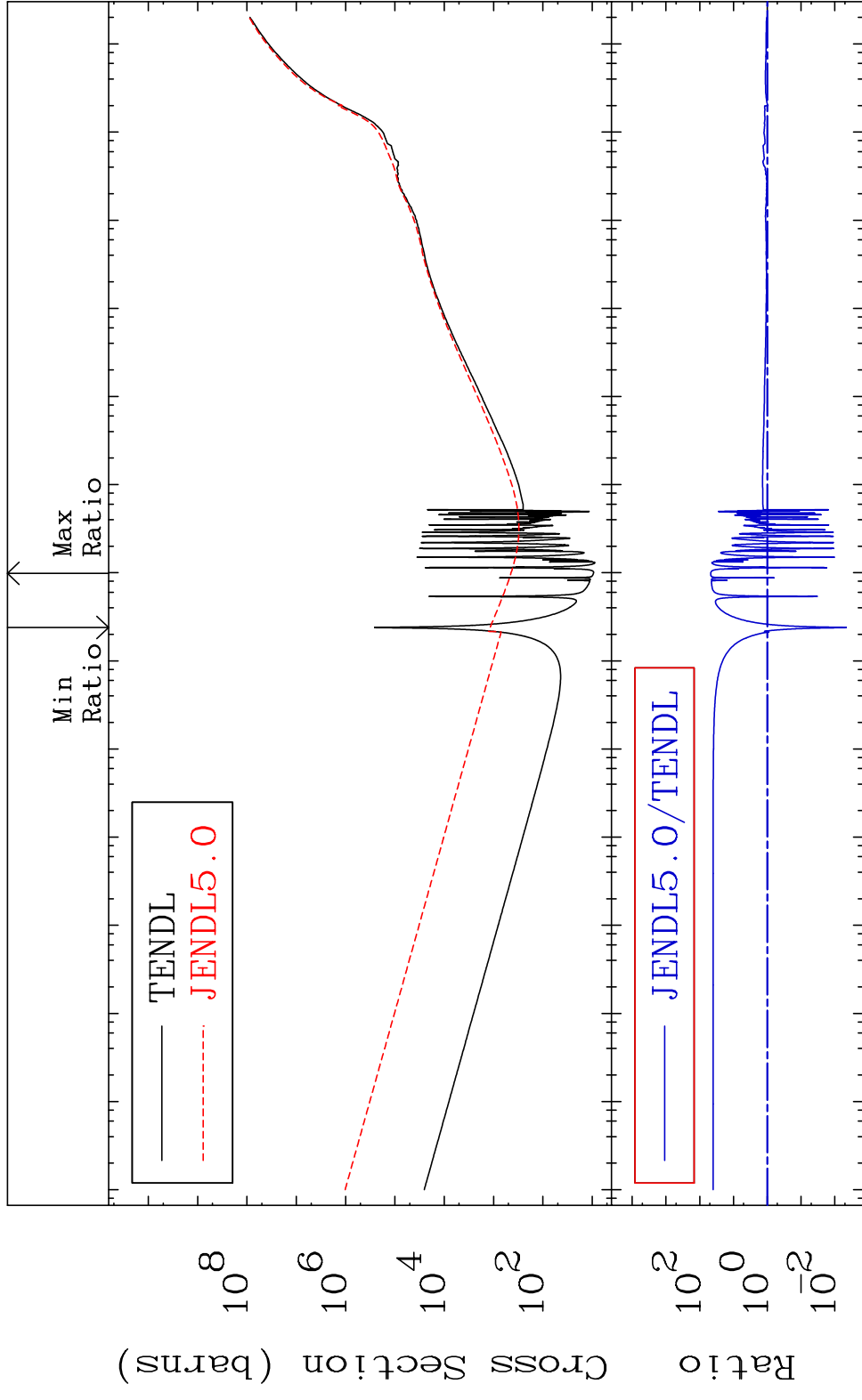
43

Incident Energy (eV) 80-Hg-194

MAT 8019 Total photon (eV-barns) 80-Hg-194  
 Cross Section -99.78 To 5984. %



MAT 8019 Total kinematic kerma (high limit) 80-Hg-194  
 Cross Section -99.55 To 4621. %

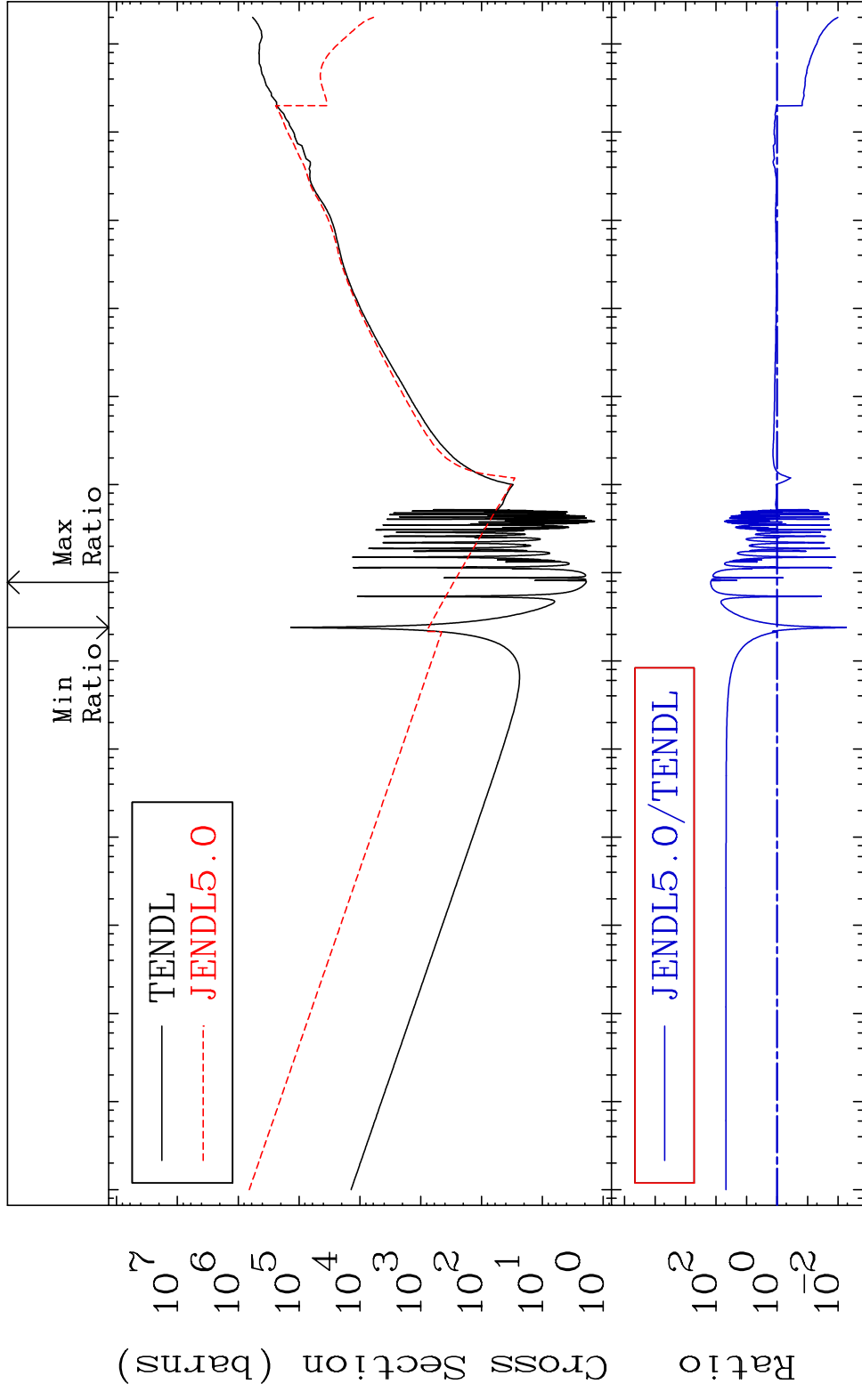


MAT 8019

Dpa total (eV-barns)

80-Hg-194

Cross Section -99.46 To 9999. %



46

Incident Energy (eV)

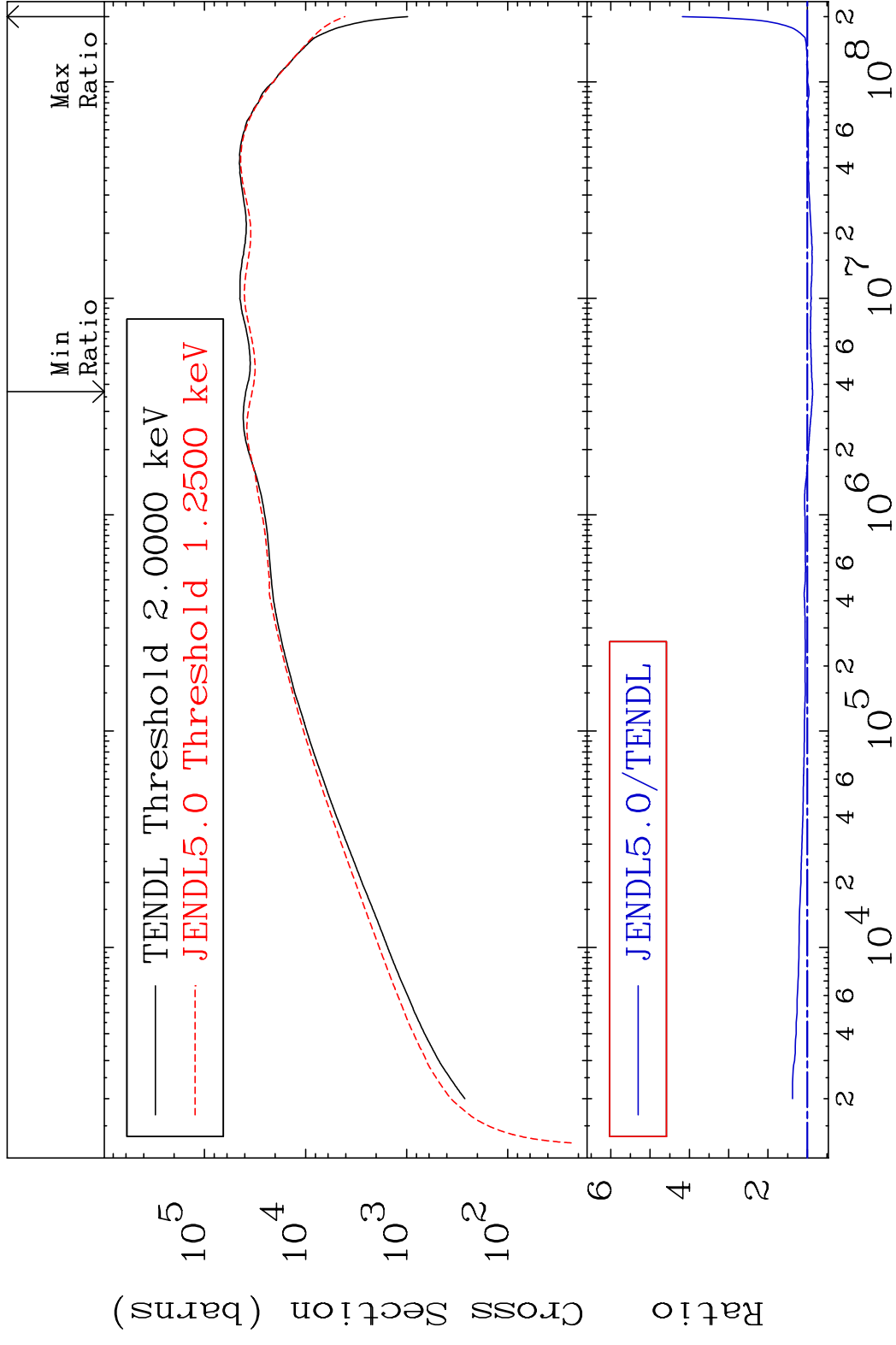
80-Hg-194

MAT 8019

Dpa elastic (mt2)

80-Hg-194

Cross Section -13.41 To 317.9 %

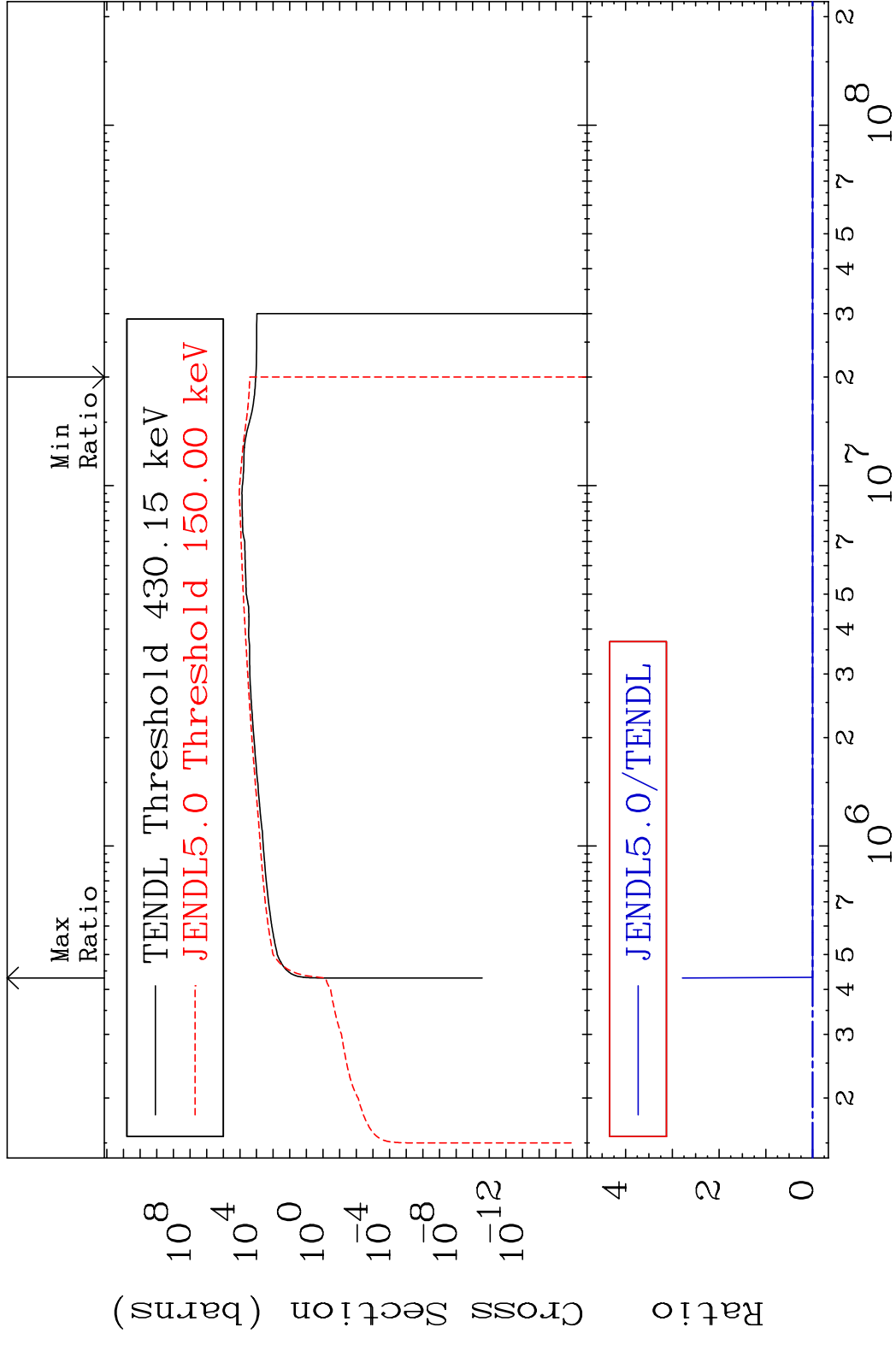


47

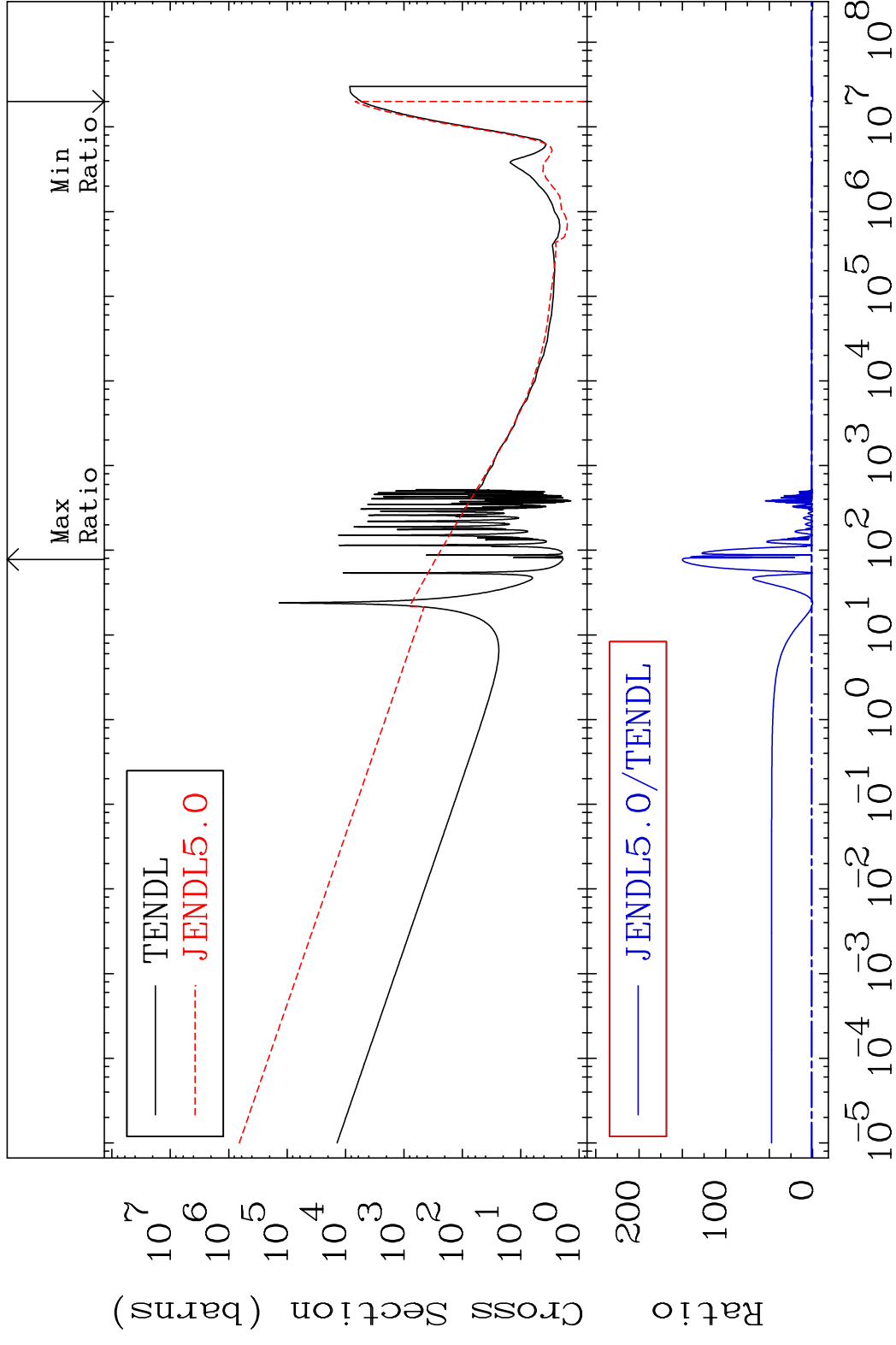
Incident Energy (eV)

80-Hg-194

MAT 8019 Dpa inelastic (mt51-91) 80-Hg-194  
 Cross Section -100.0 To 9999. %

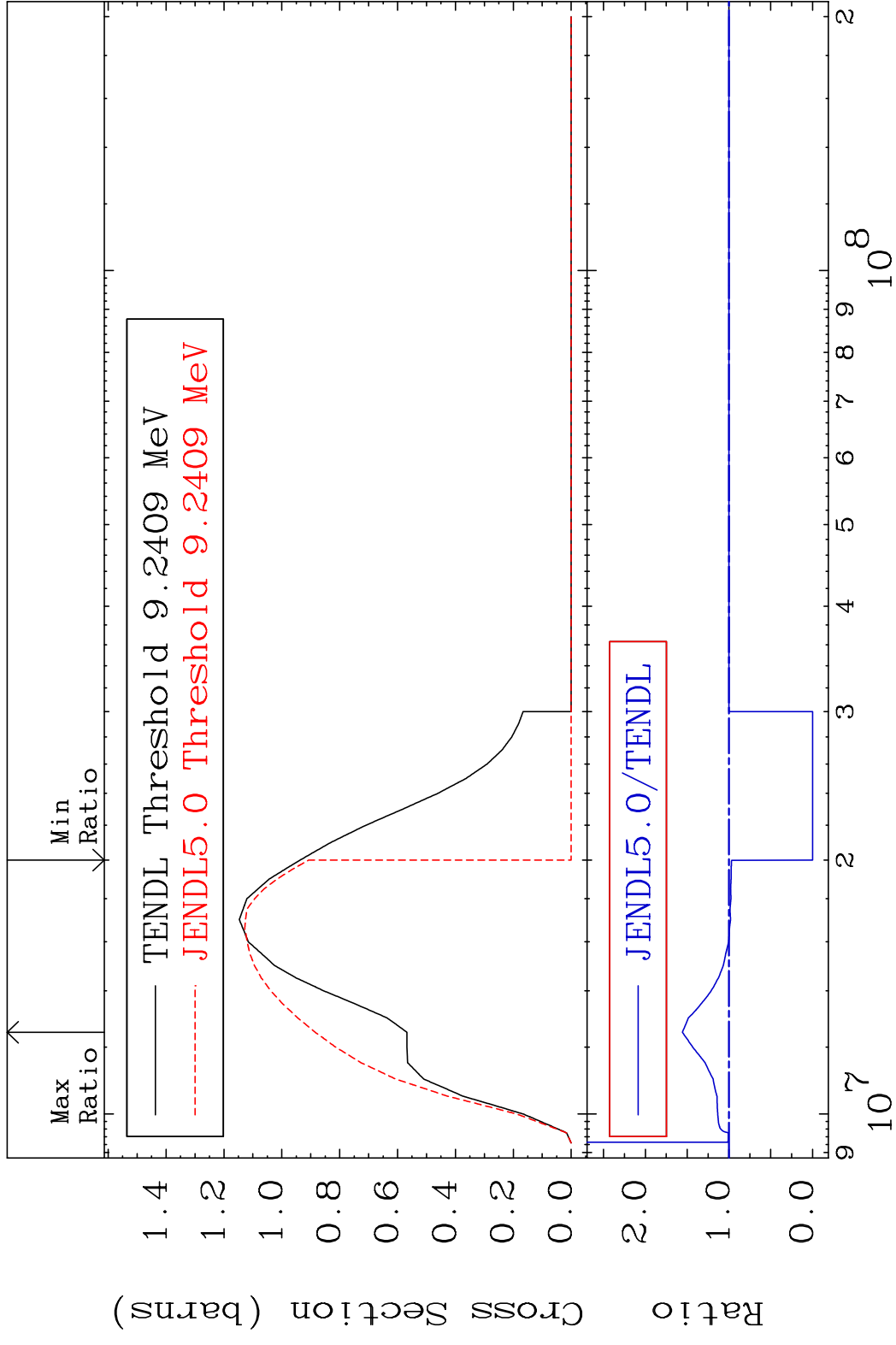


MAT 8019 Dpa disappearance (mt102 -120) 80-Hg-194  
 Cross Section -100.0 To 9999. %



49 Incident Energy (eV) 80-Hg-194

MAT 8019 (n,2n):80-Hg-193g 80-Hg-194  
 Radionuclide Production Cross Section 55.75 %



50 80-Hg-194

MAT 8019 (n,2n):80-Hg-193m3 80-Hg-194  
 Radionuclide Production Cross Section Ratio 96.24 %

