

Program Complot  
(Version 2021-1)

by

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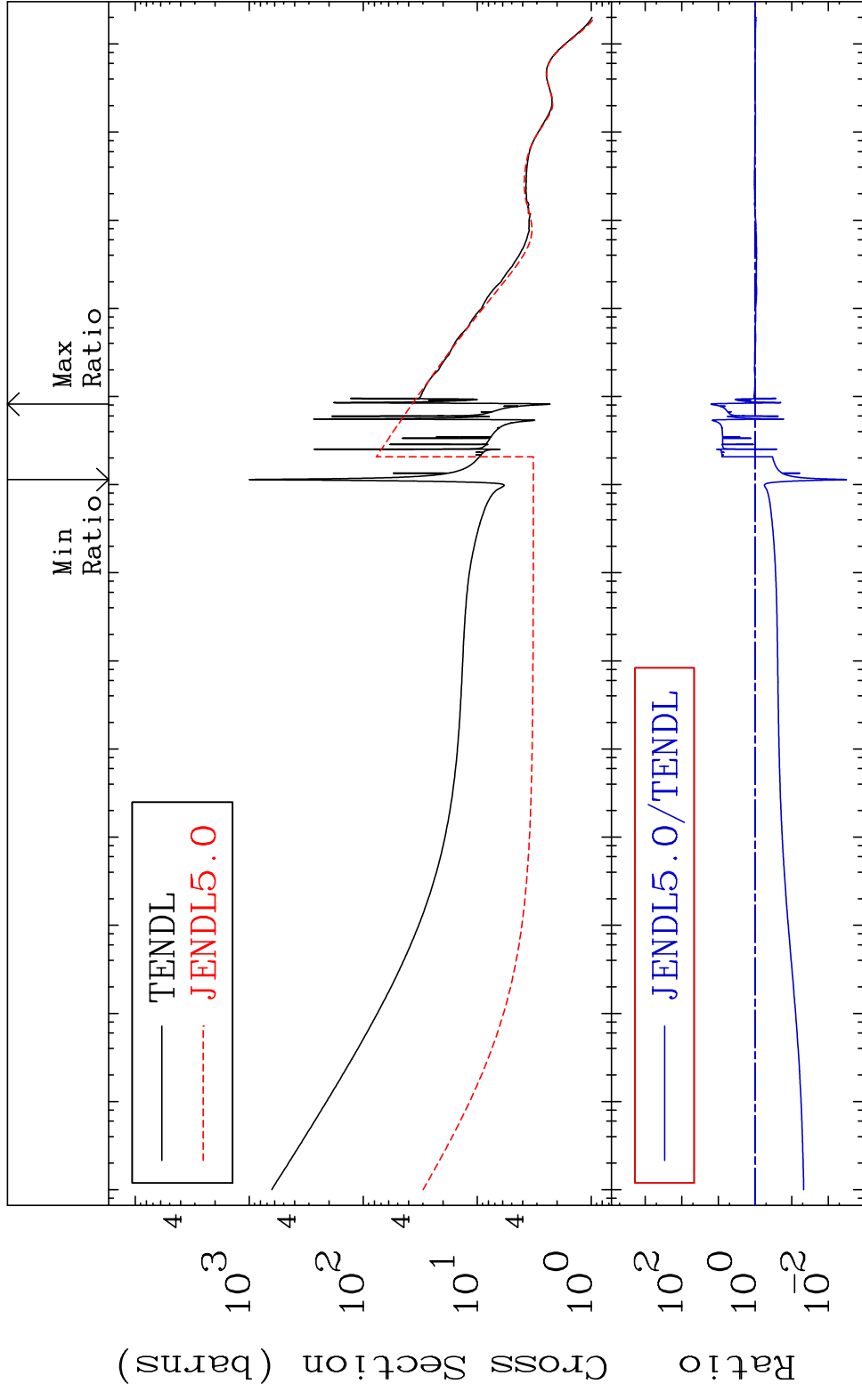
Press Mouse Button to Start

MAT 2428

24-Cr-51

Total

Cross Section -99.68 To 1528. %



1

Incident Energy (eV)

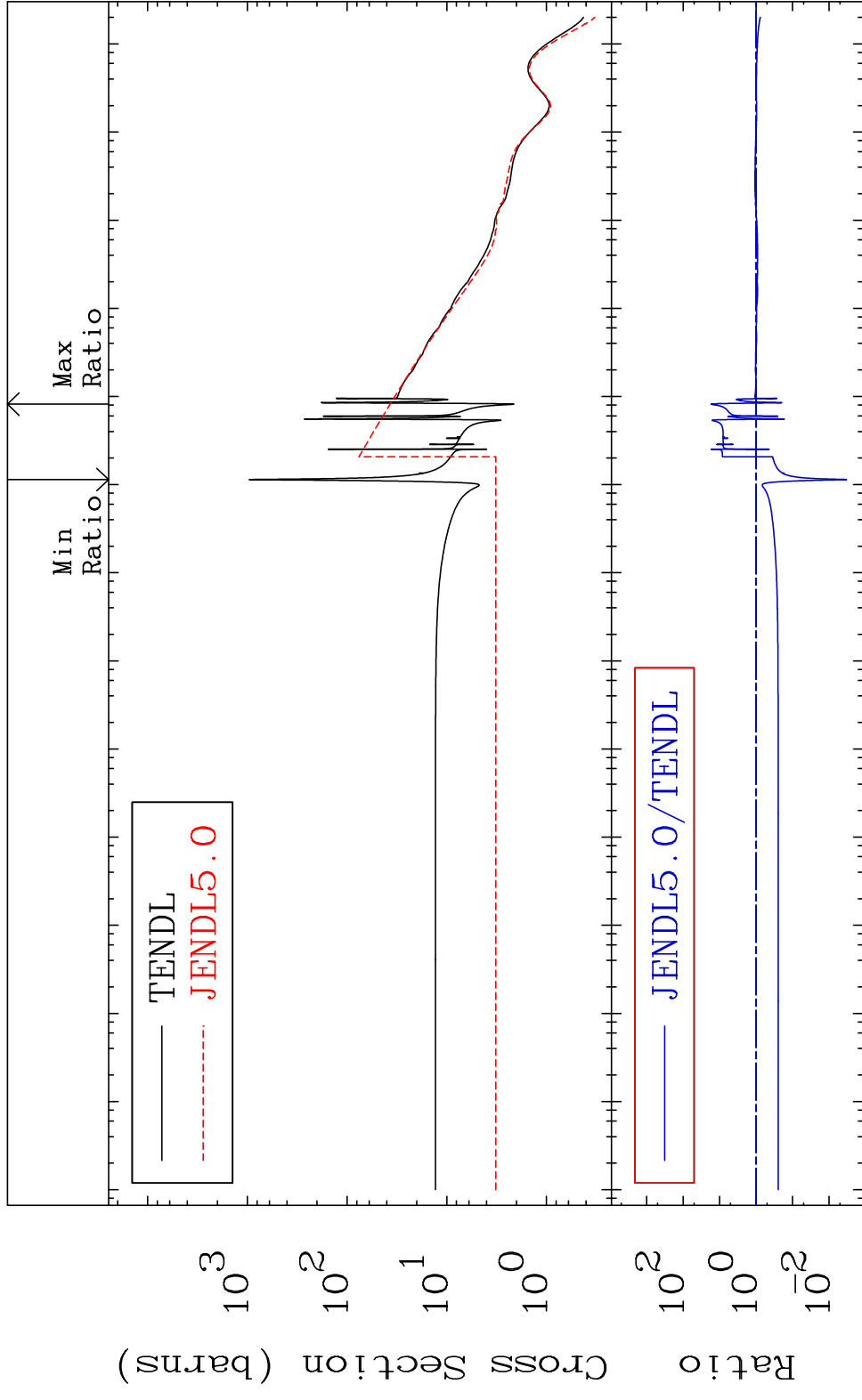
24-Cr-51

MAT 2428

24-Cr-51

Elastic

Cross Section -99.66 To 1650. %

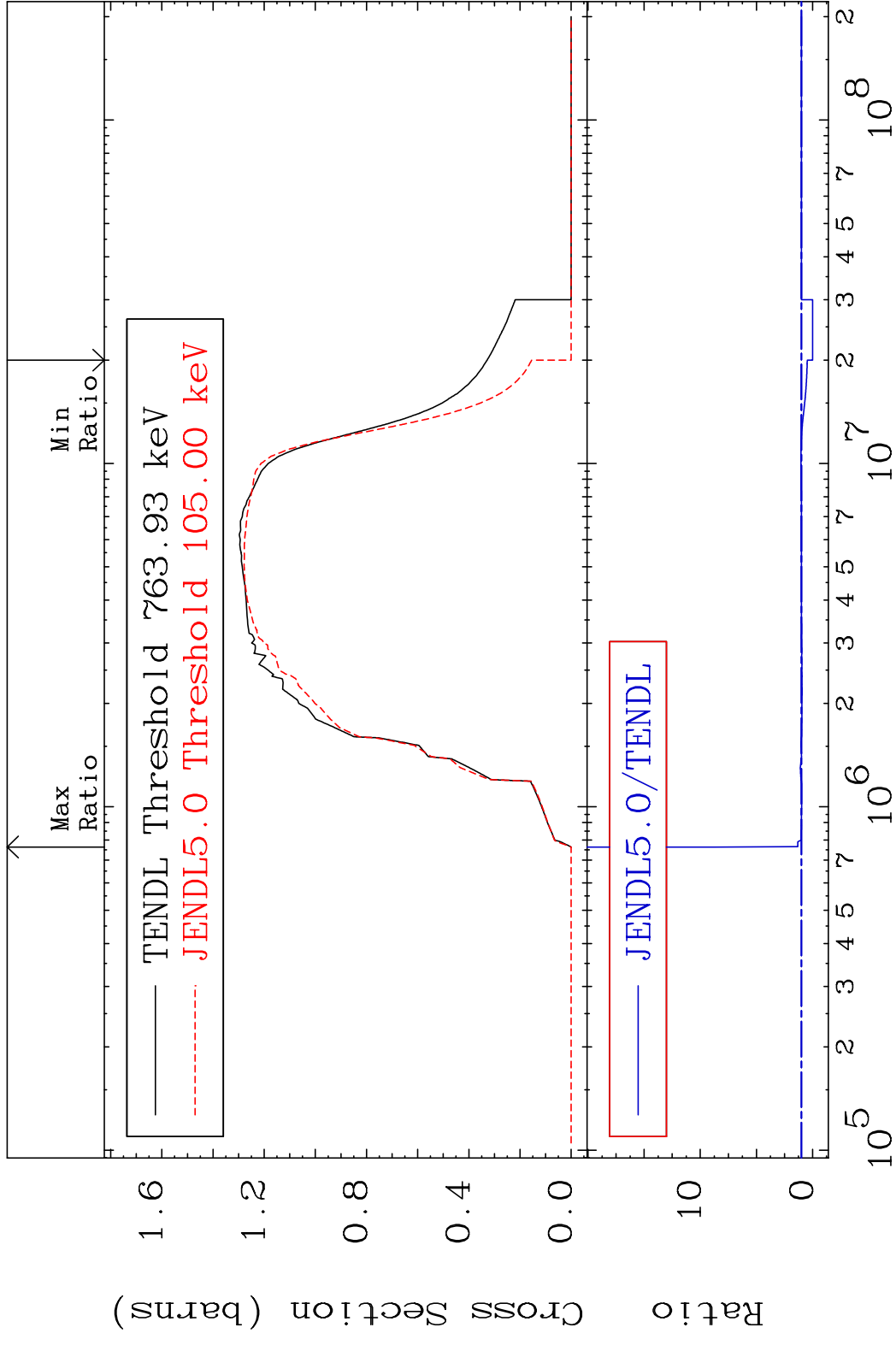


MAT 2428

Inelastic

<sup>24</sup>Cr-51

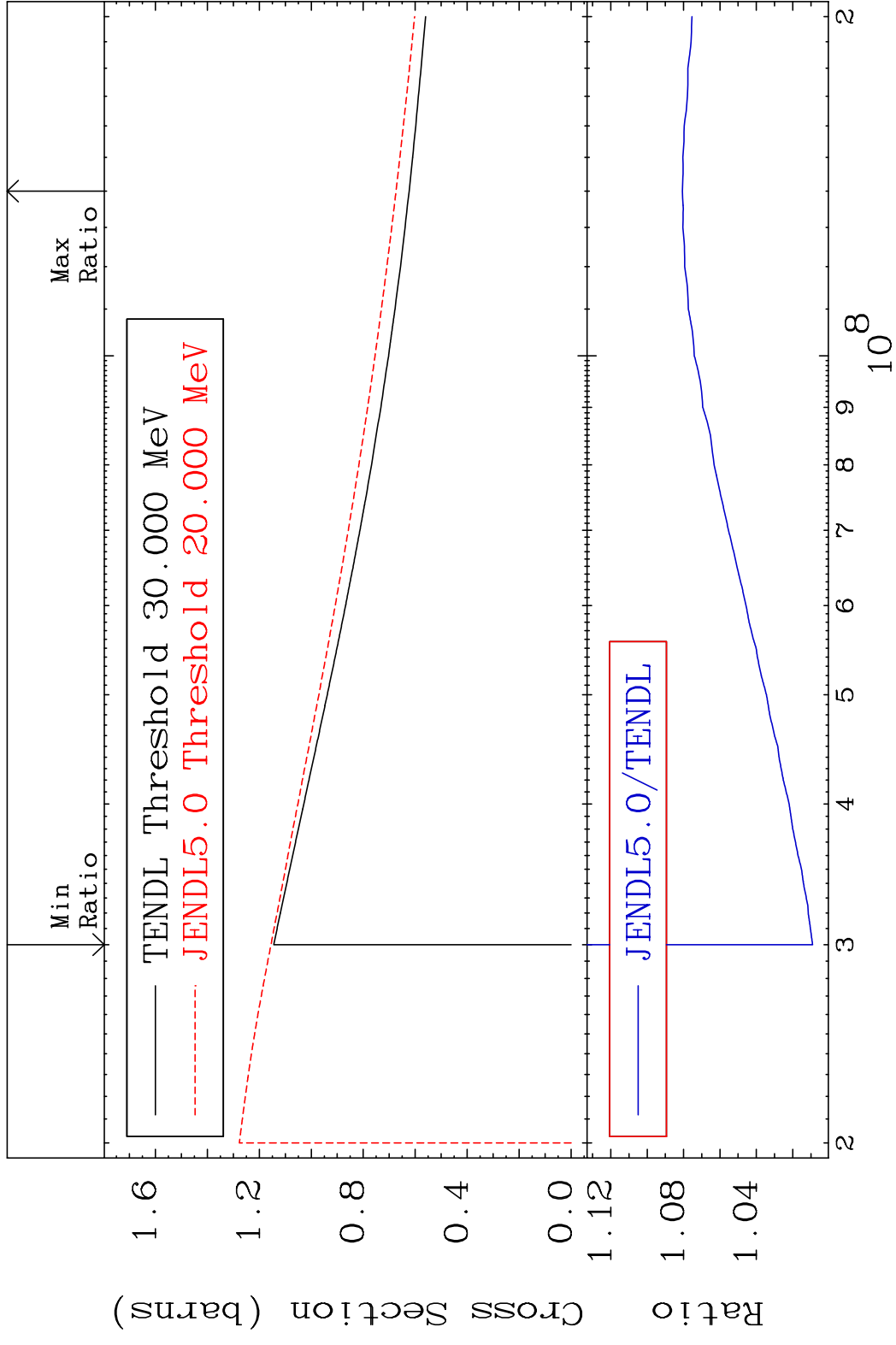
Cross Section -100.0 To 1060. %



Incident Energy (eV)

<sup>24</sup>Cr-51

MAT 2428 (n, remainder) 24-Cr-51  
 Cross Section 0.910 To 8.066 %



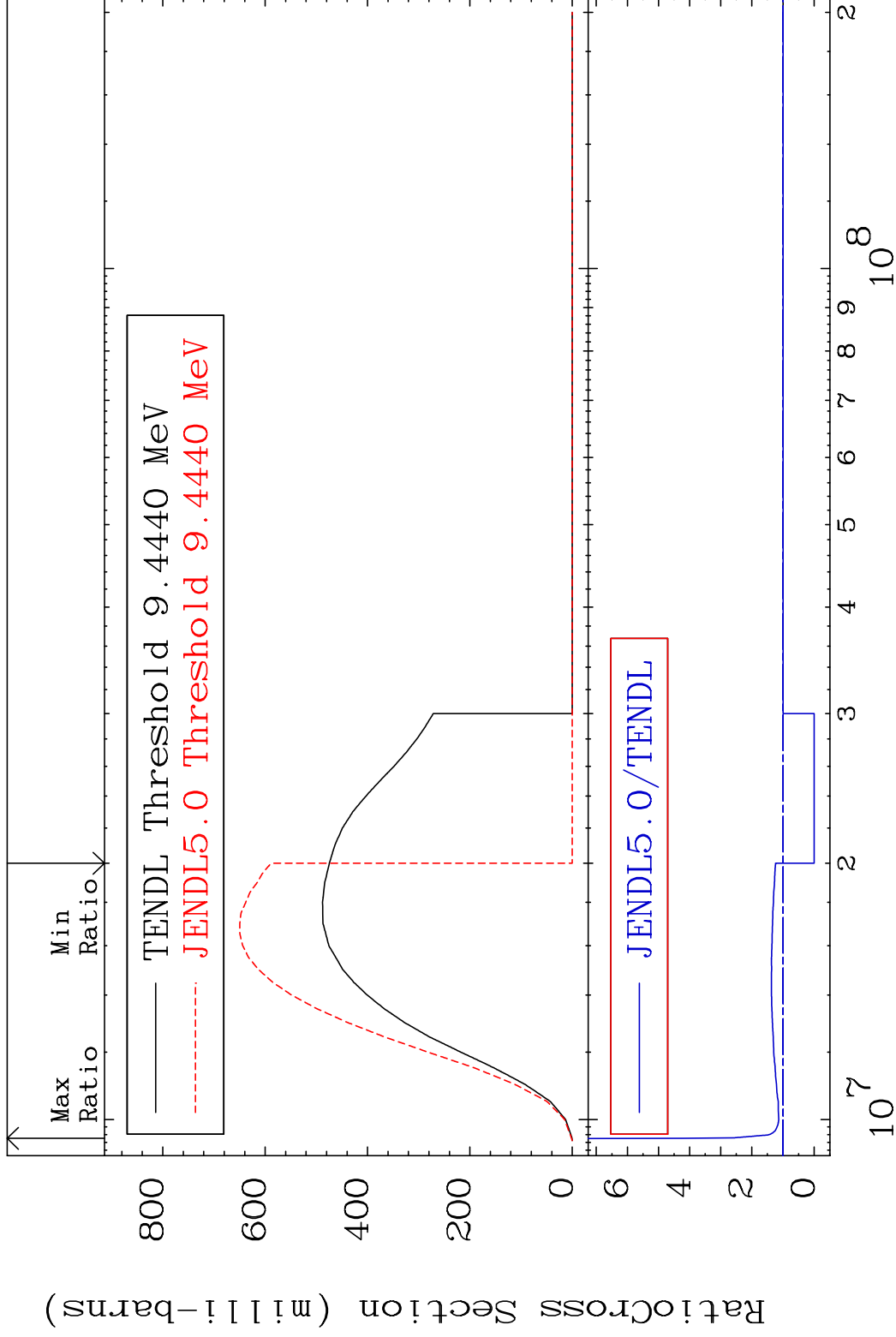
4 Incident Energy (eV) 24-Cr-51

MAT 2428

(n,2n)

<sup>24</sup>Cr-51

Cross Section -100.0 To 319.2 %



5

Incident Energy (eV)

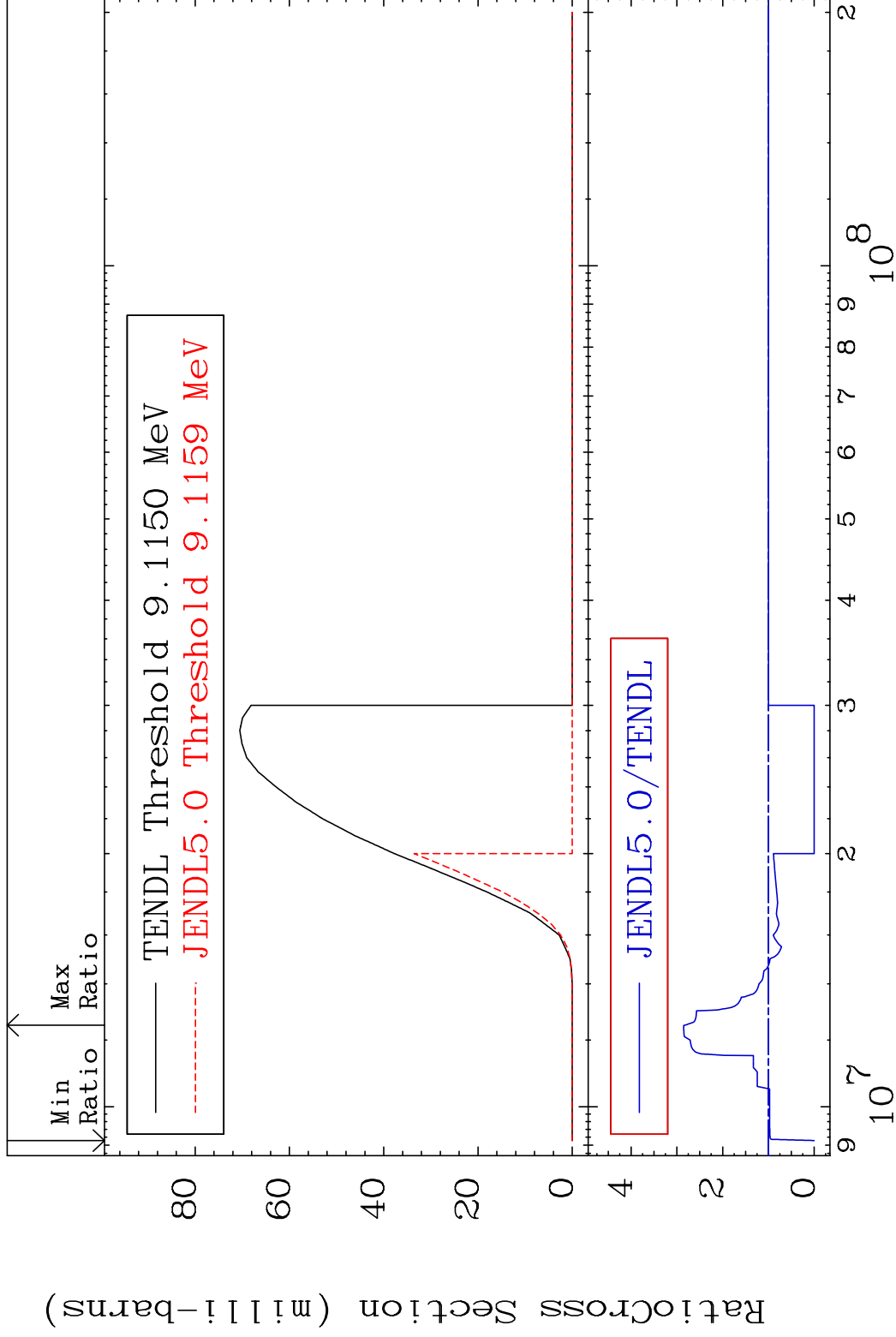
<sup>24</sup>Cr-51

MAT 2428

(n, n')  $\alpha$

<sup>24</sup>Cr-51

Cross Section -100.0 To 185.3 %



6

Incident Energy (eV)

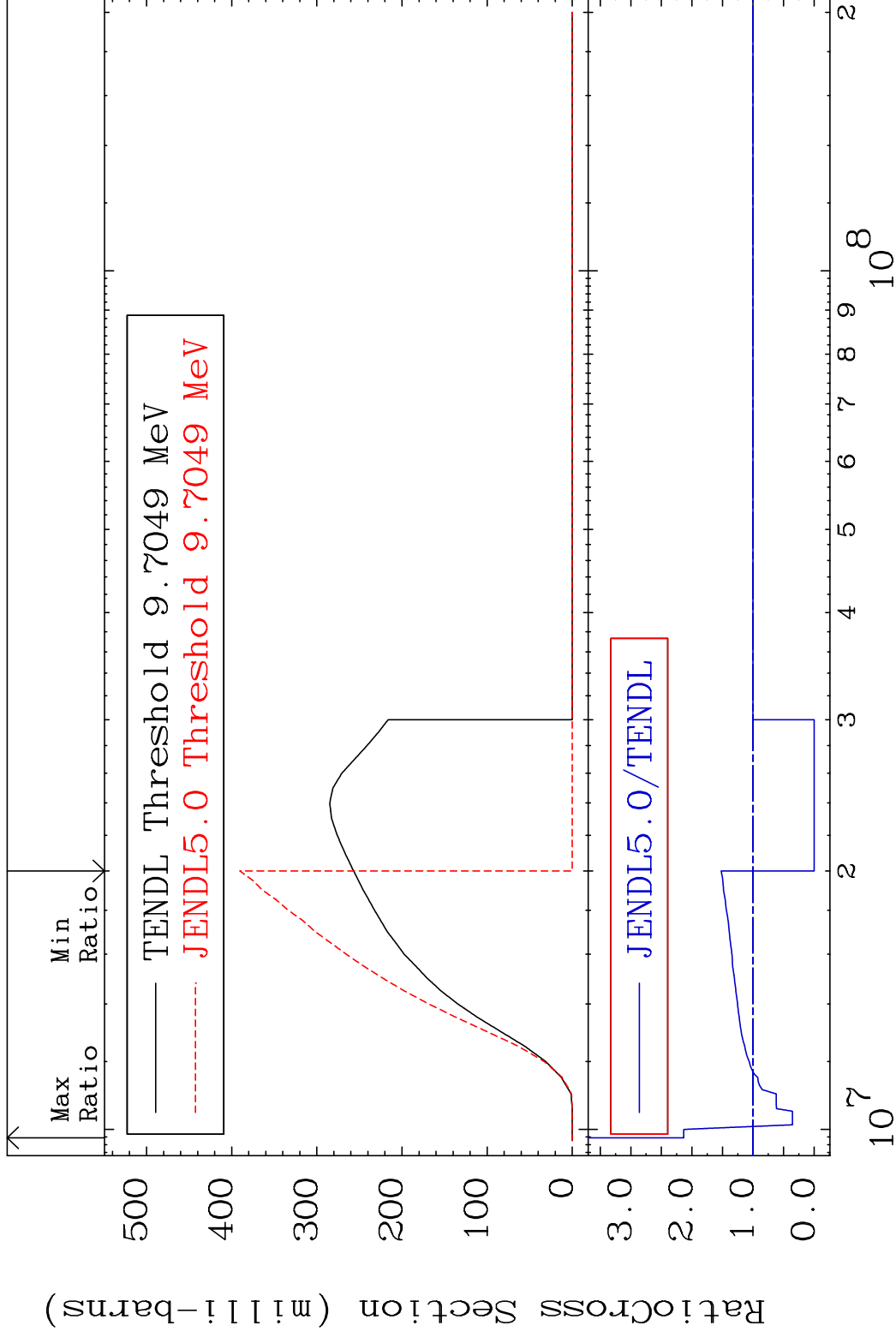
<sup>24</sup>Cr-51

MAT 2428

(n, n') p

<sup>24</sup>Cr-51

Cross Section -100.0 To 113.5 %



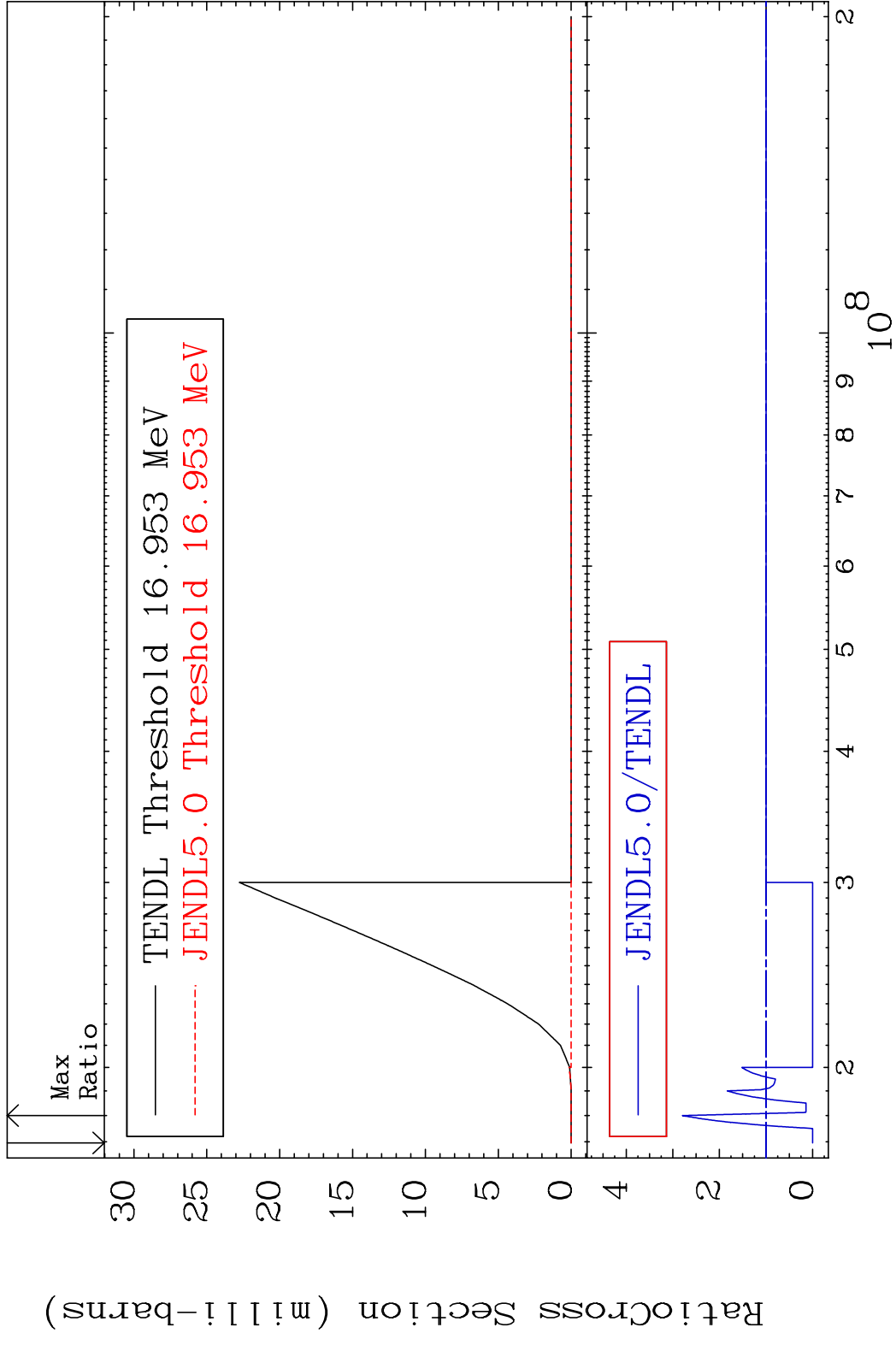
7

Incident Energy (eV)

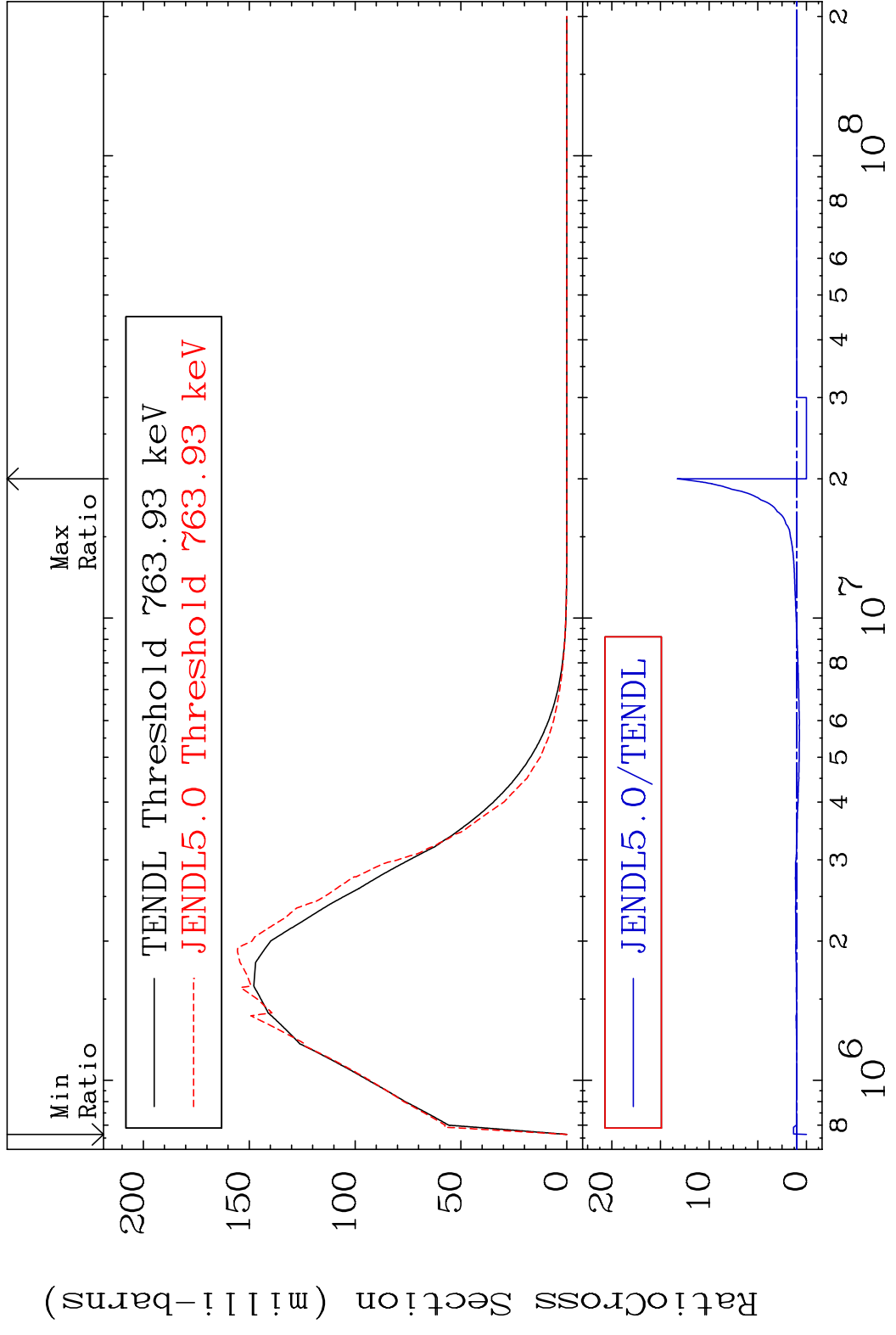
<sup>24</sup>Cr-51



MAT 2428 (n, n') d 24-Cr-51  
 Cross Section -100.0 To 179.6 %

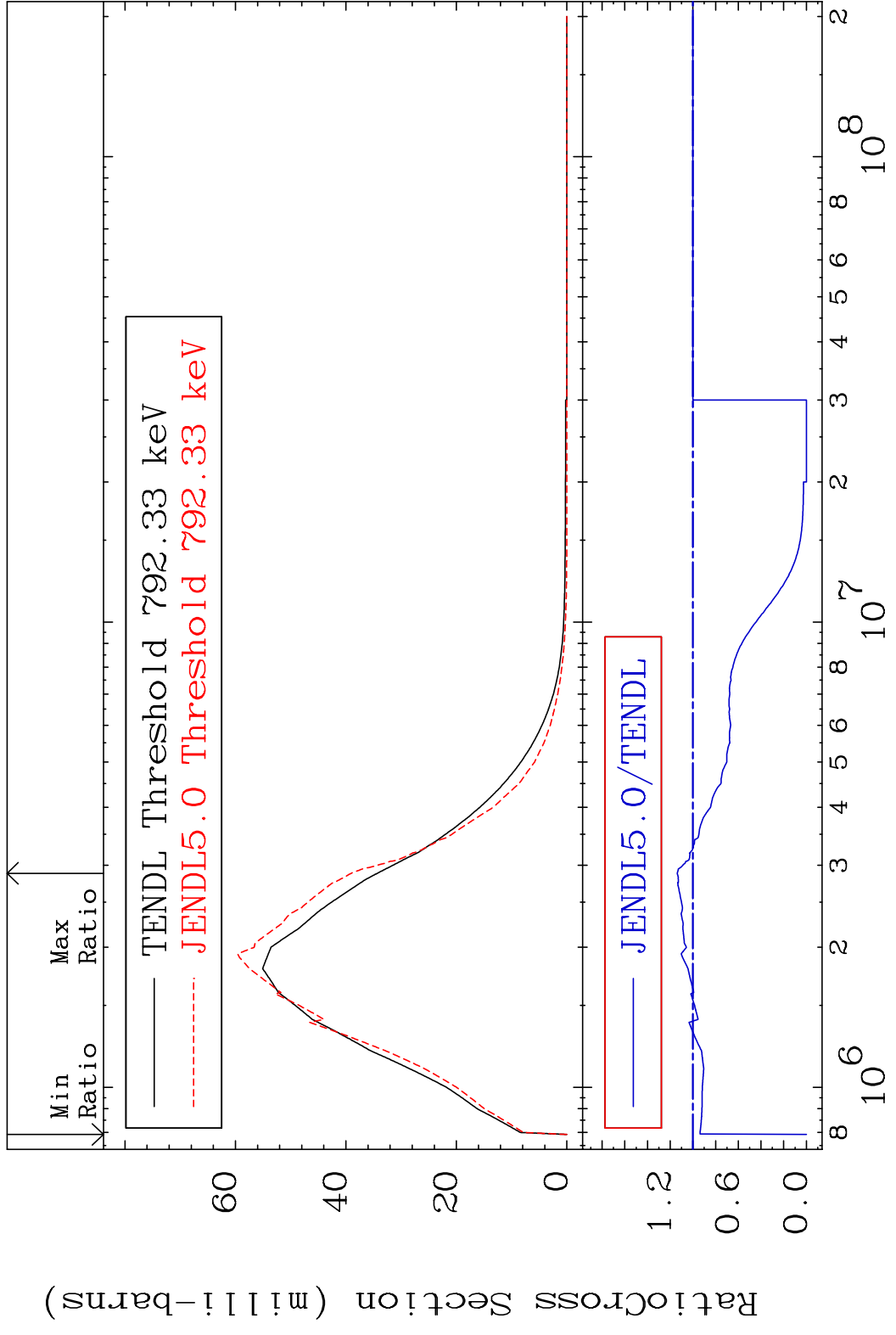


MAT 2428 MT= 51 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 1229. %

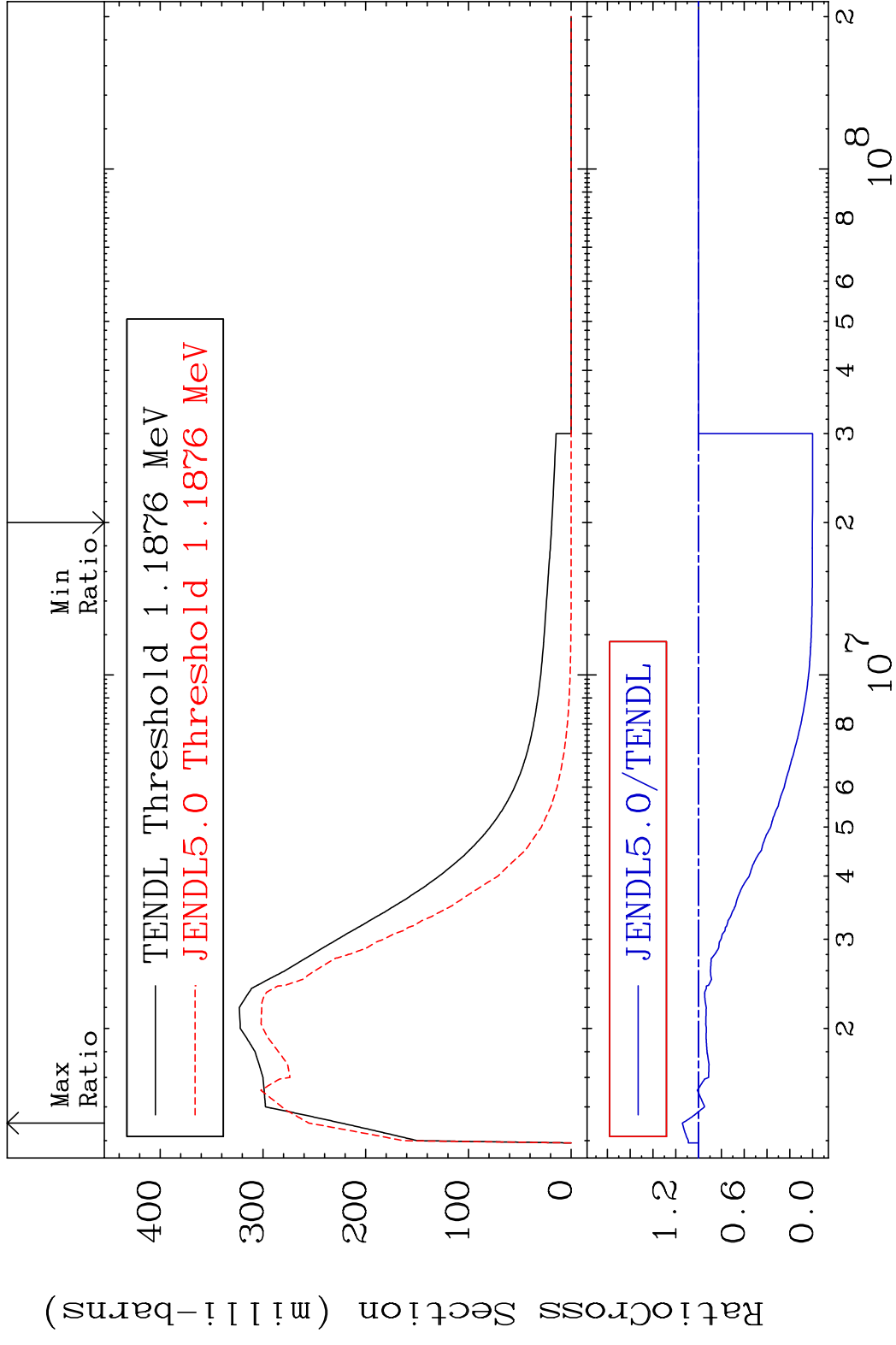


9 Incident Energy (eV) 24-Cr-51

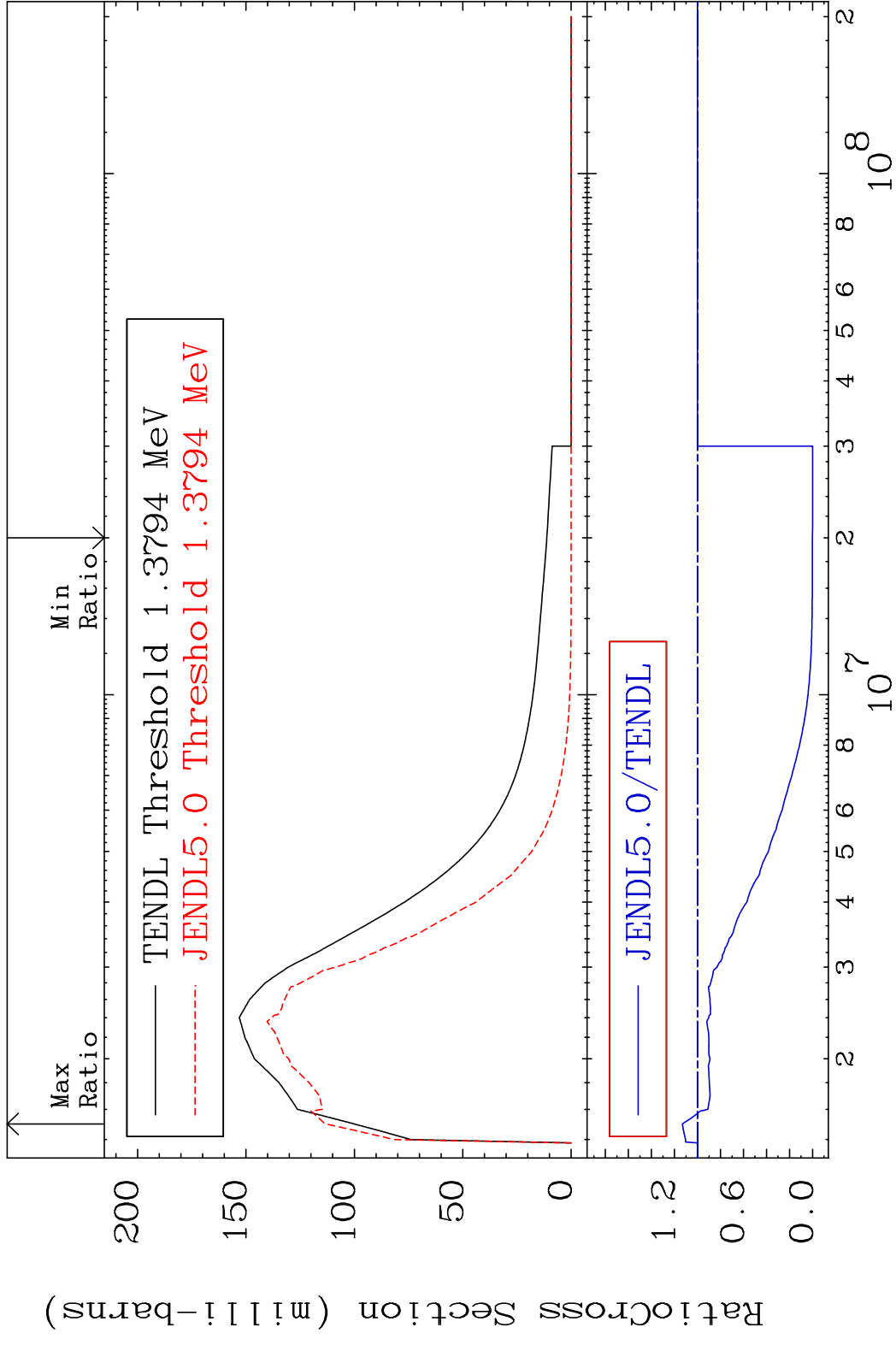
MAT 2428 MT= 52 (n,n') Level 24-Cr-51  
 Cross Section -100.0 To 13.85 %



MAT 2428 MT= 53 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 14.21 %

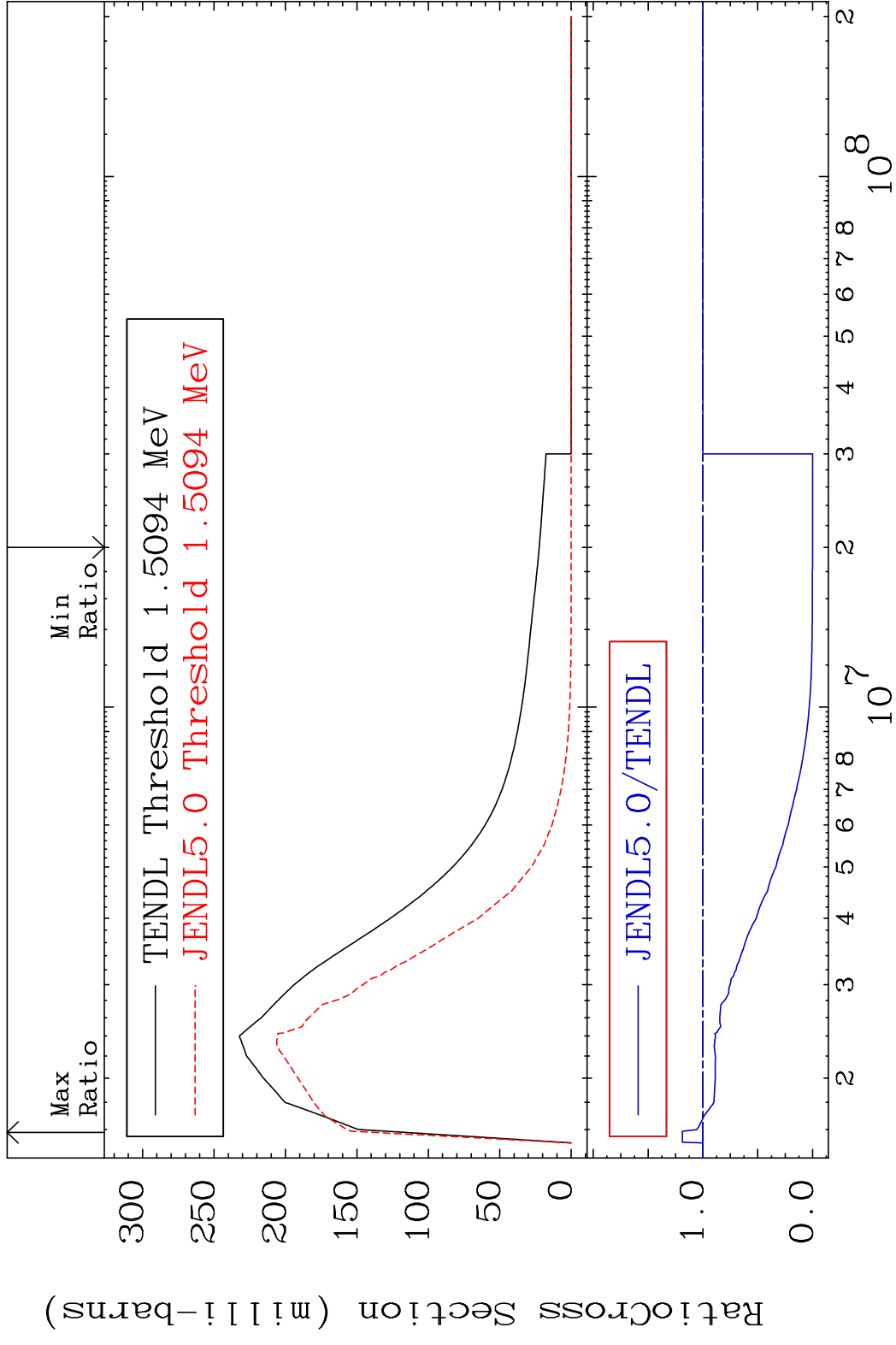


MAT 2428 MT= 54 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 13.15 %

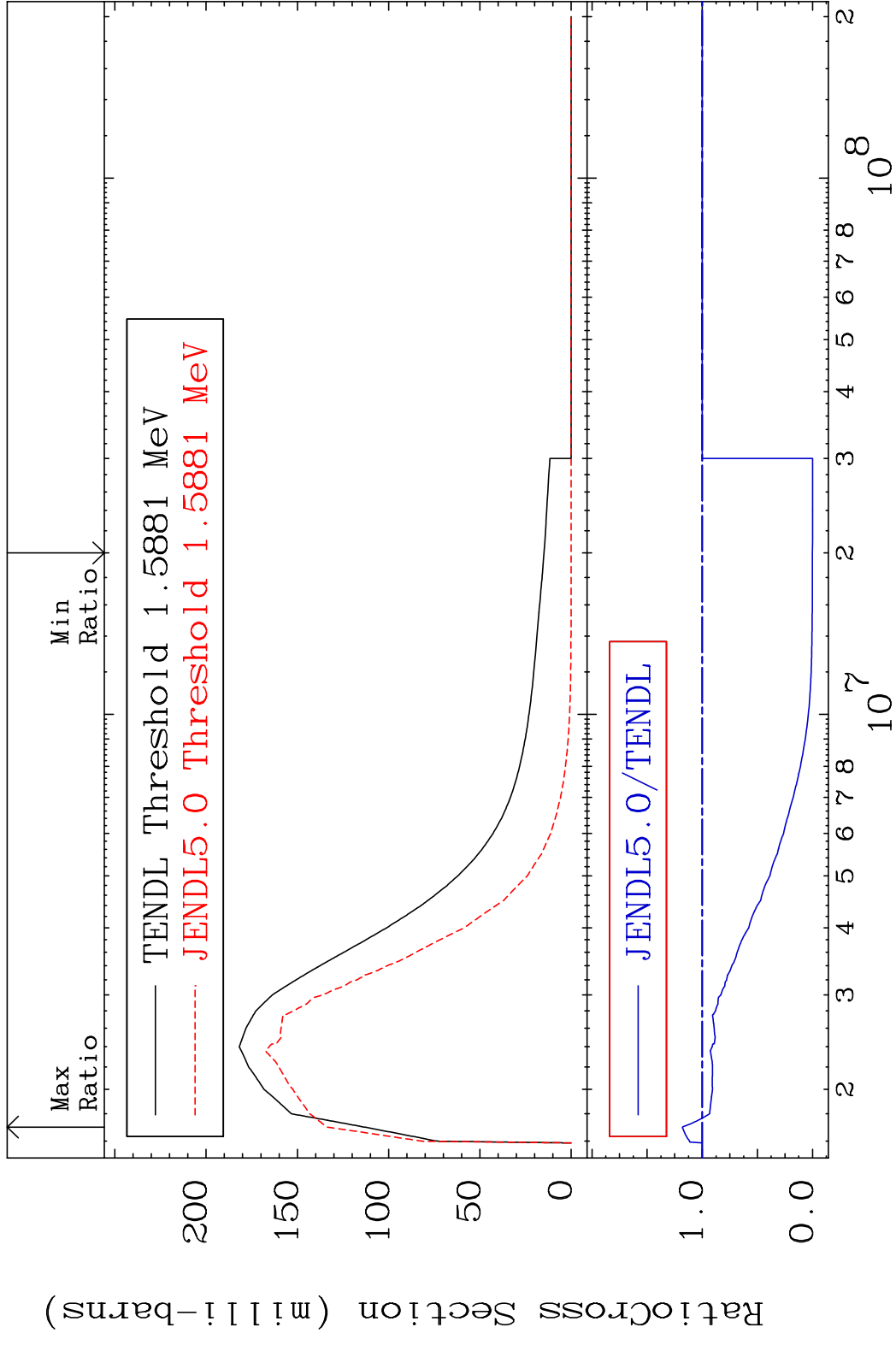


12 24-Cr-51

MAT 2428 MT= 55 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 18.77 %



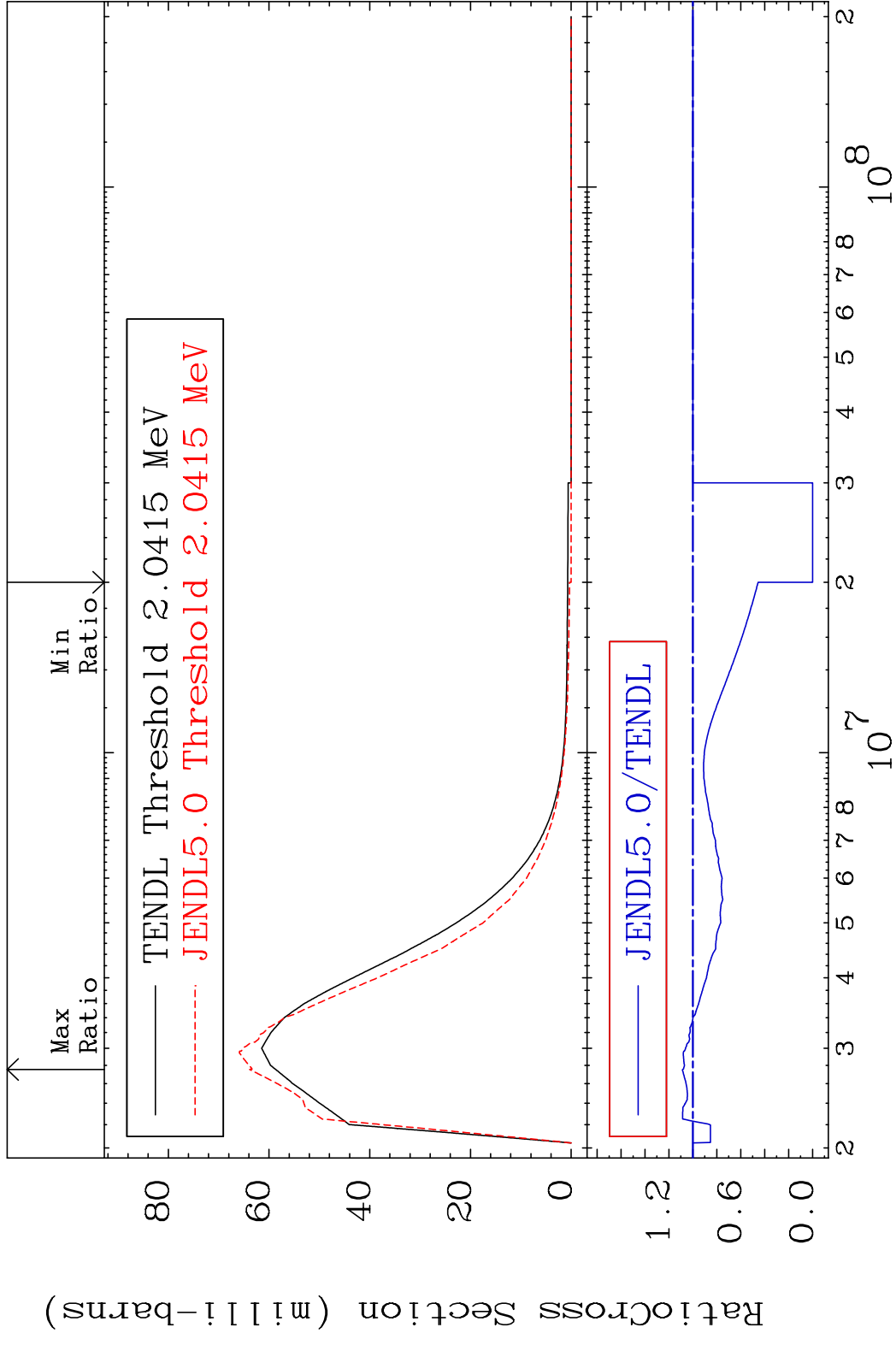
MAT 2428 MT= 56 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 18.05 %



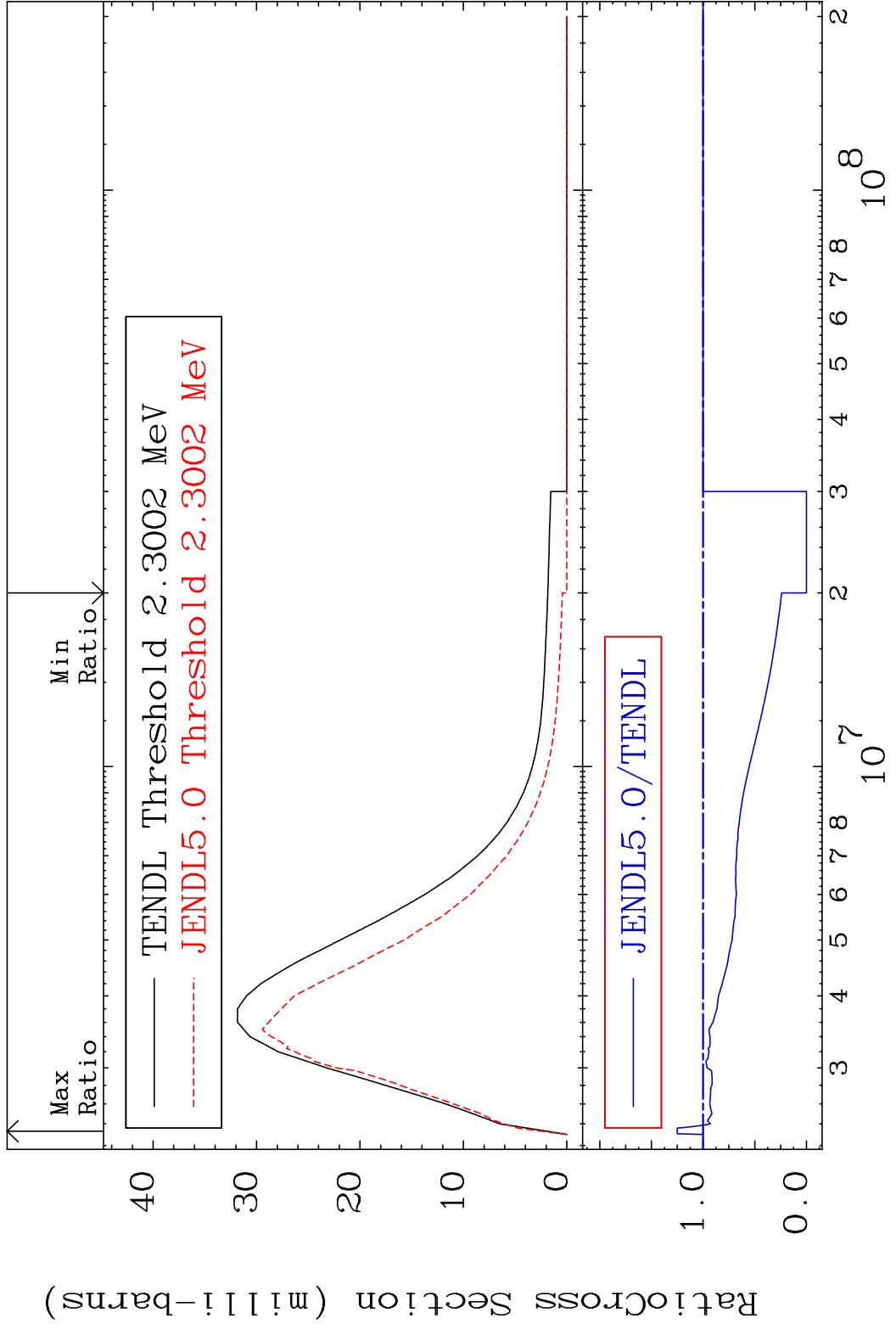




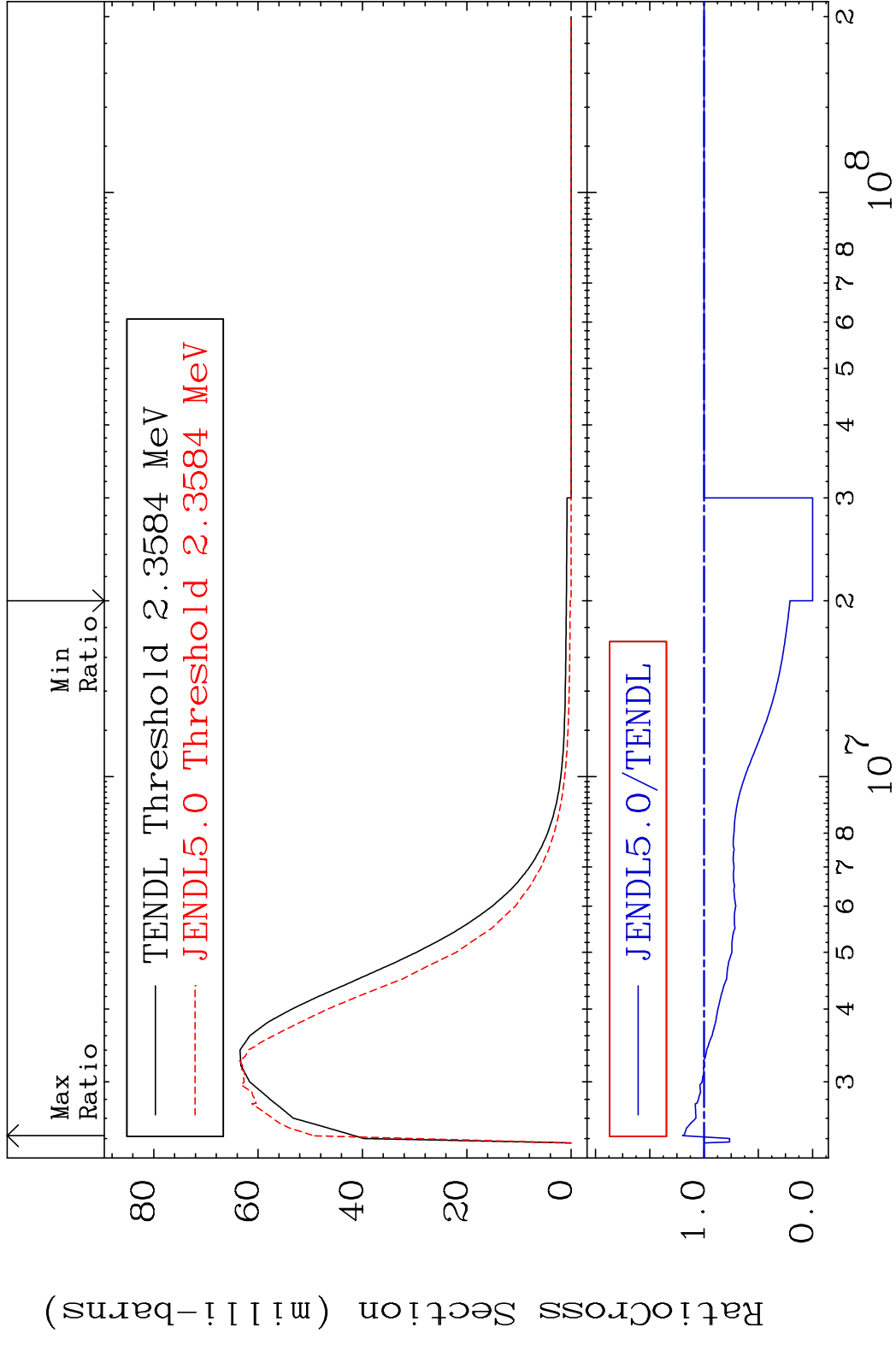
MAT 2428 MT= 58 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 8.781 %



MAT 2428 MT= 59 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 25.09 %

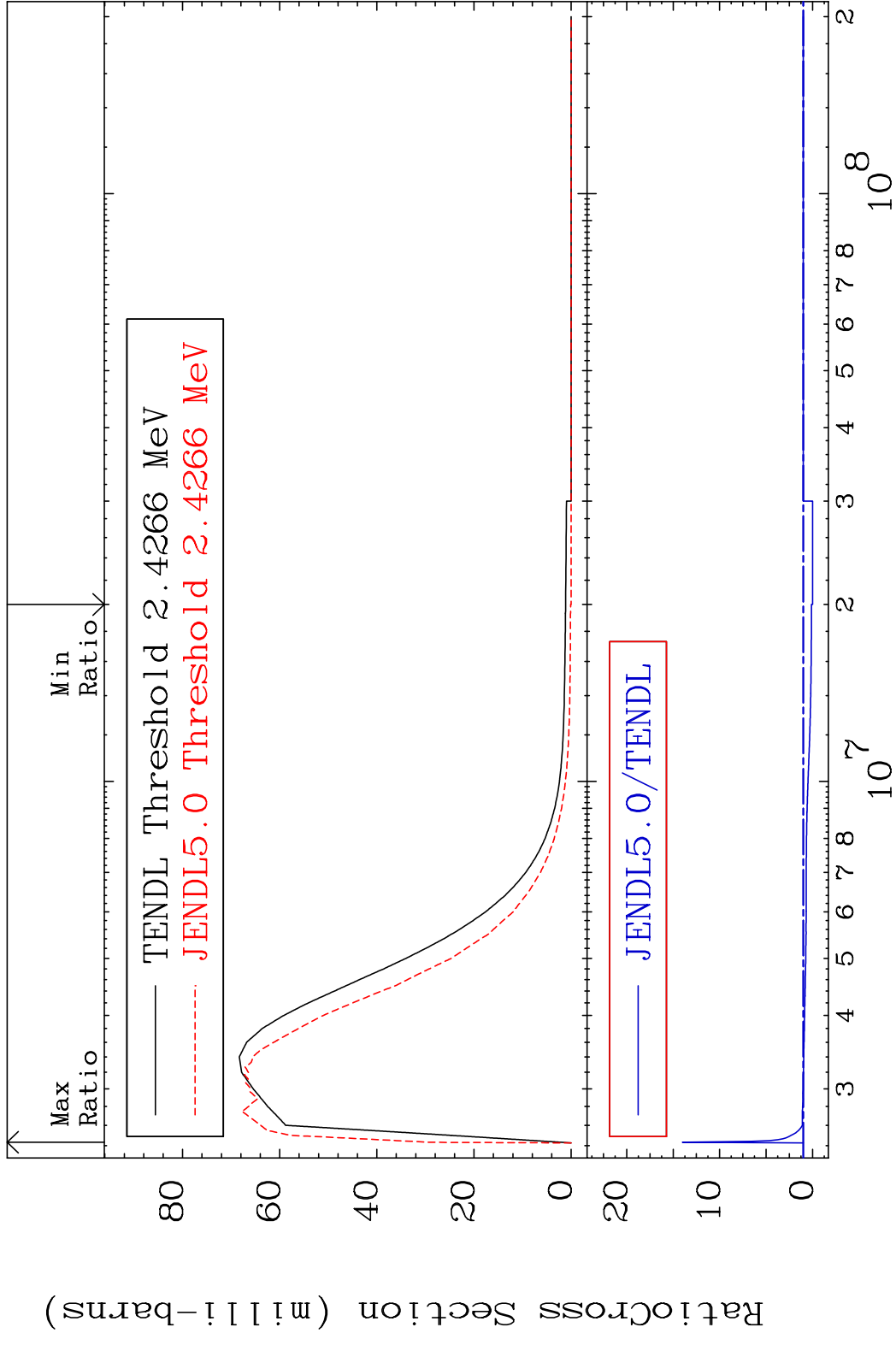


MAT 2428 MT= 60 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 19.92 %

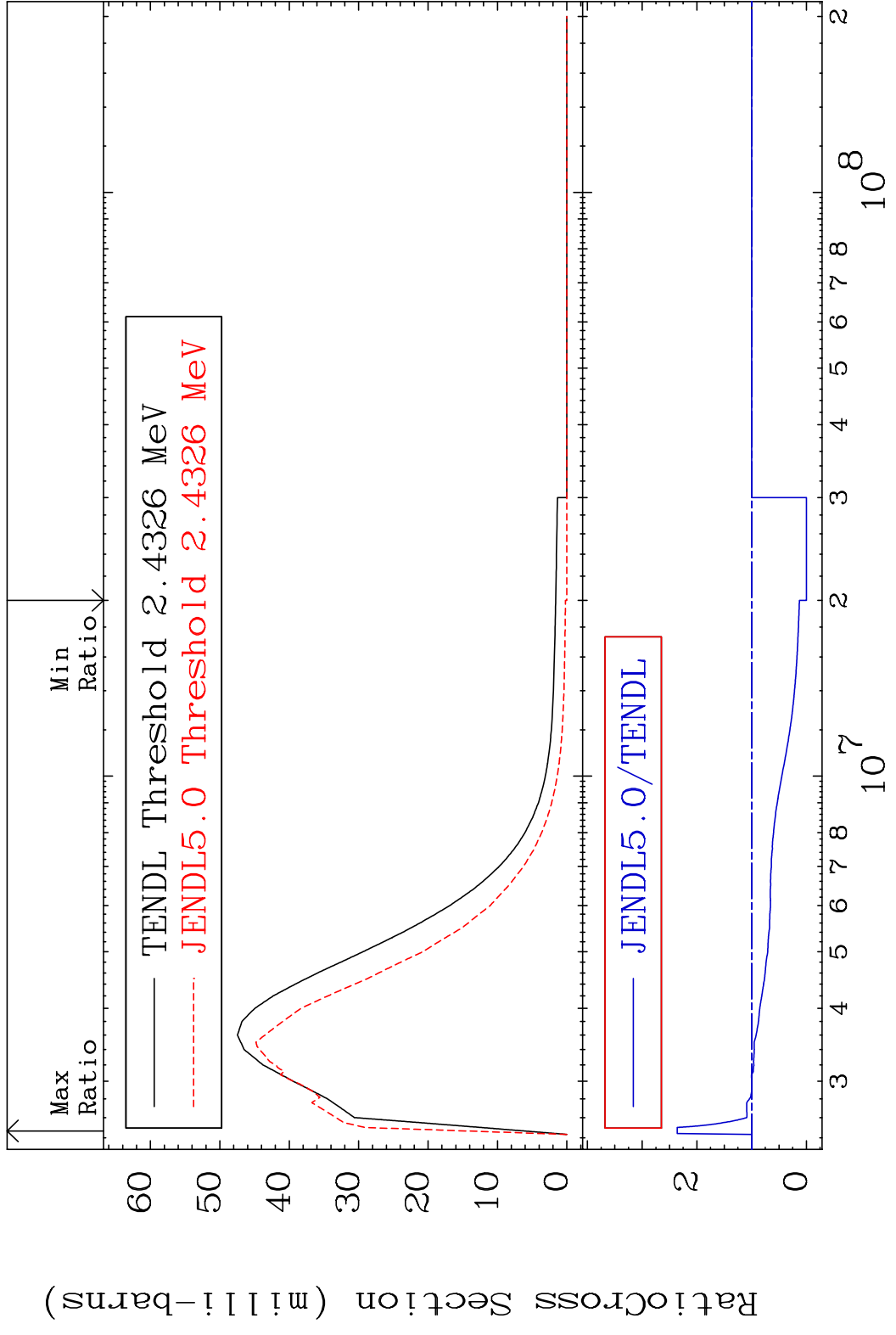


18 Incident Energy (eV) 24-Cr-51

MAT 2428 MT= 61 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 1301. %

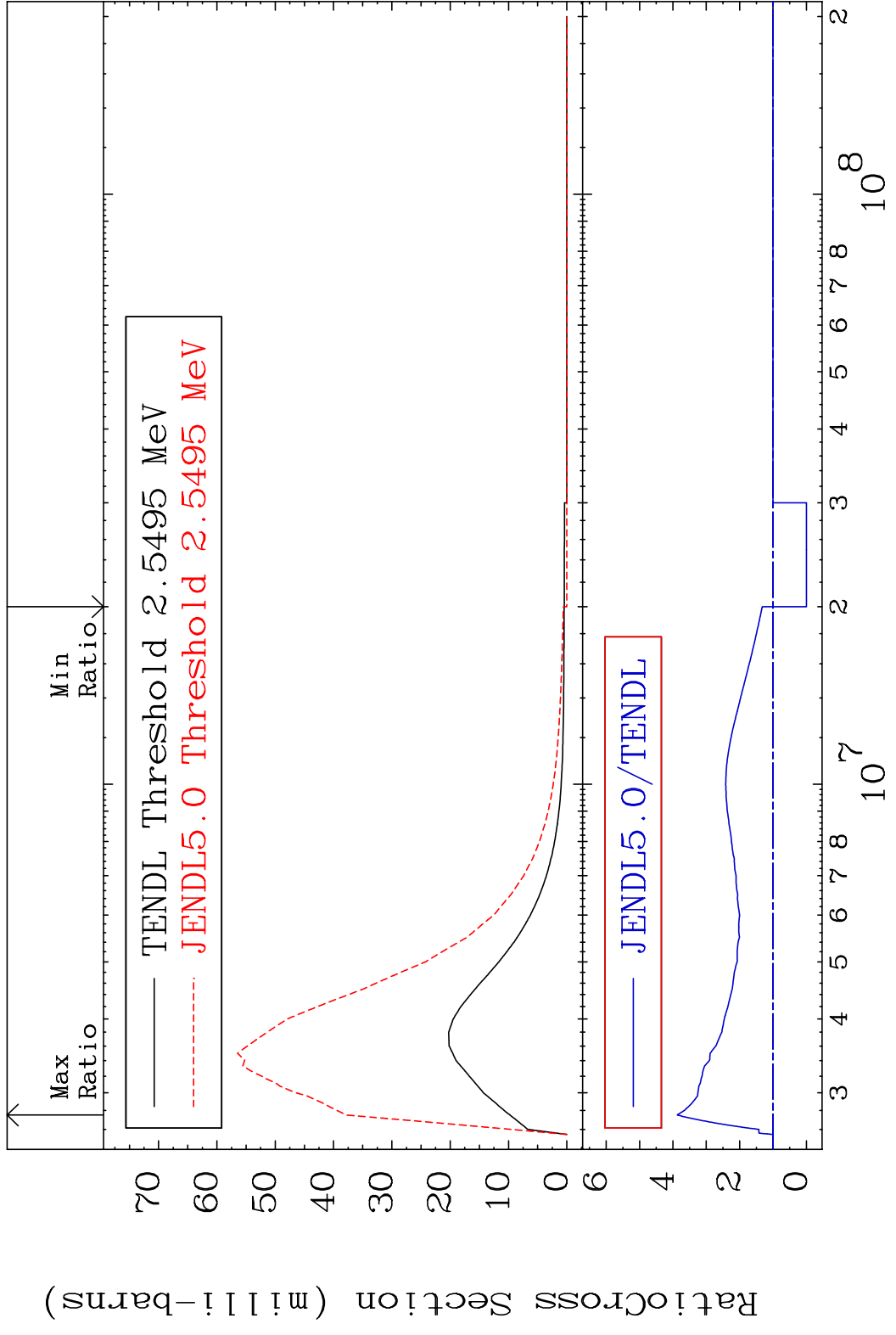


MAT 2428 MT= 62 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 136.0 %

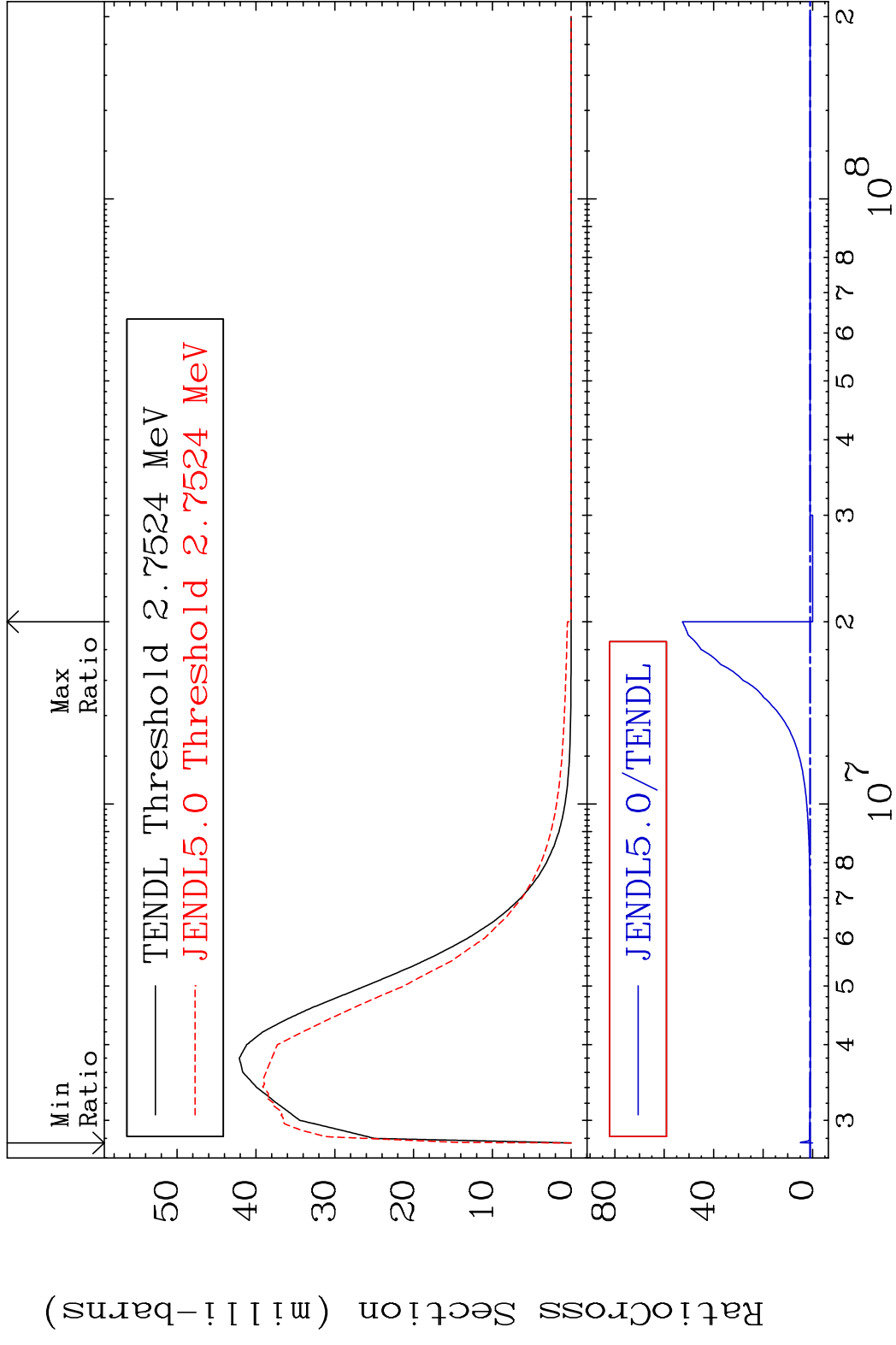


20 24-Cr-51

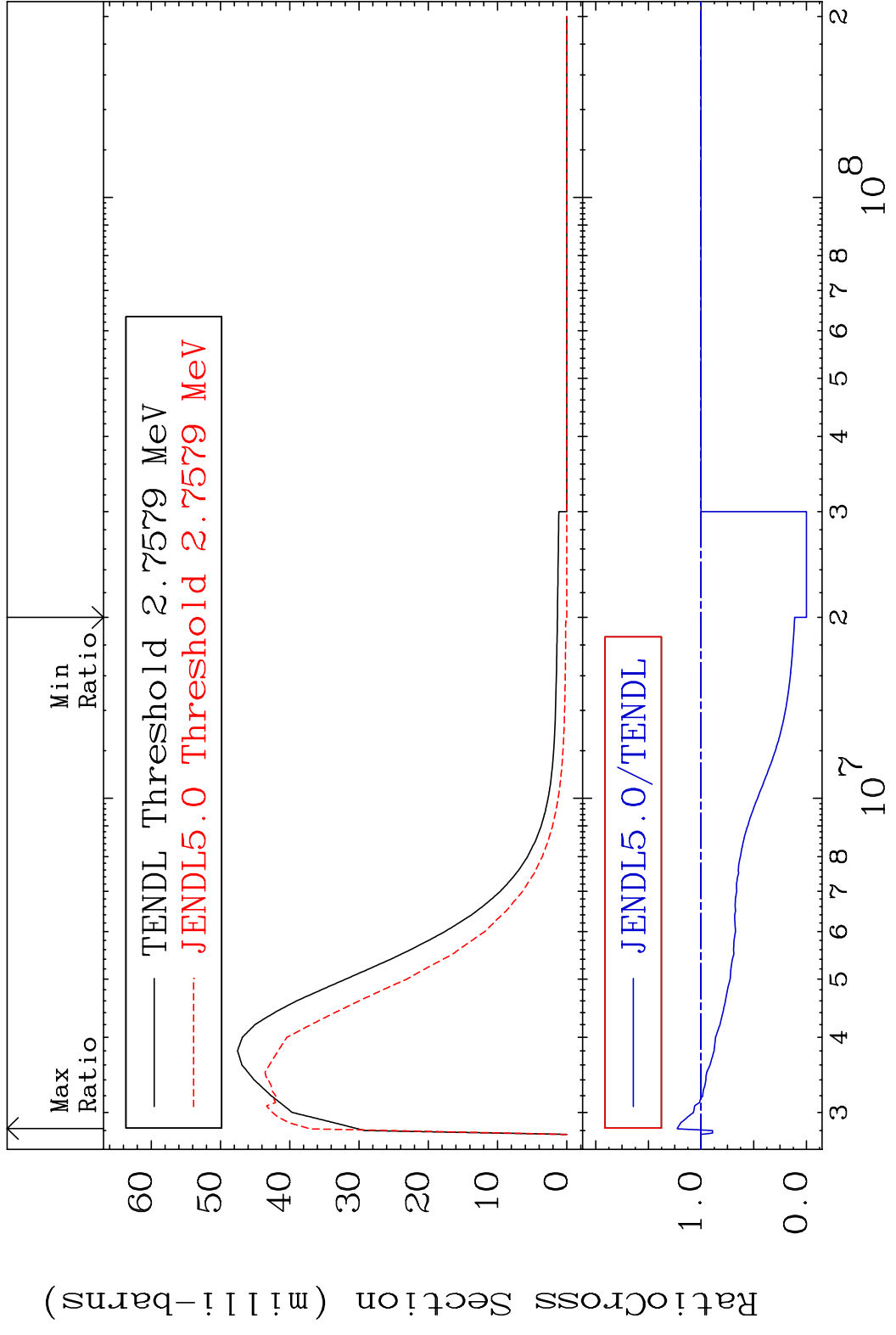
MAT 2428 MT= 63 (n,n') Level 24-Cr-51  
 Cross Section -100.0 To 287.2 %



MAT 2428 MT= 64 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 5168. %

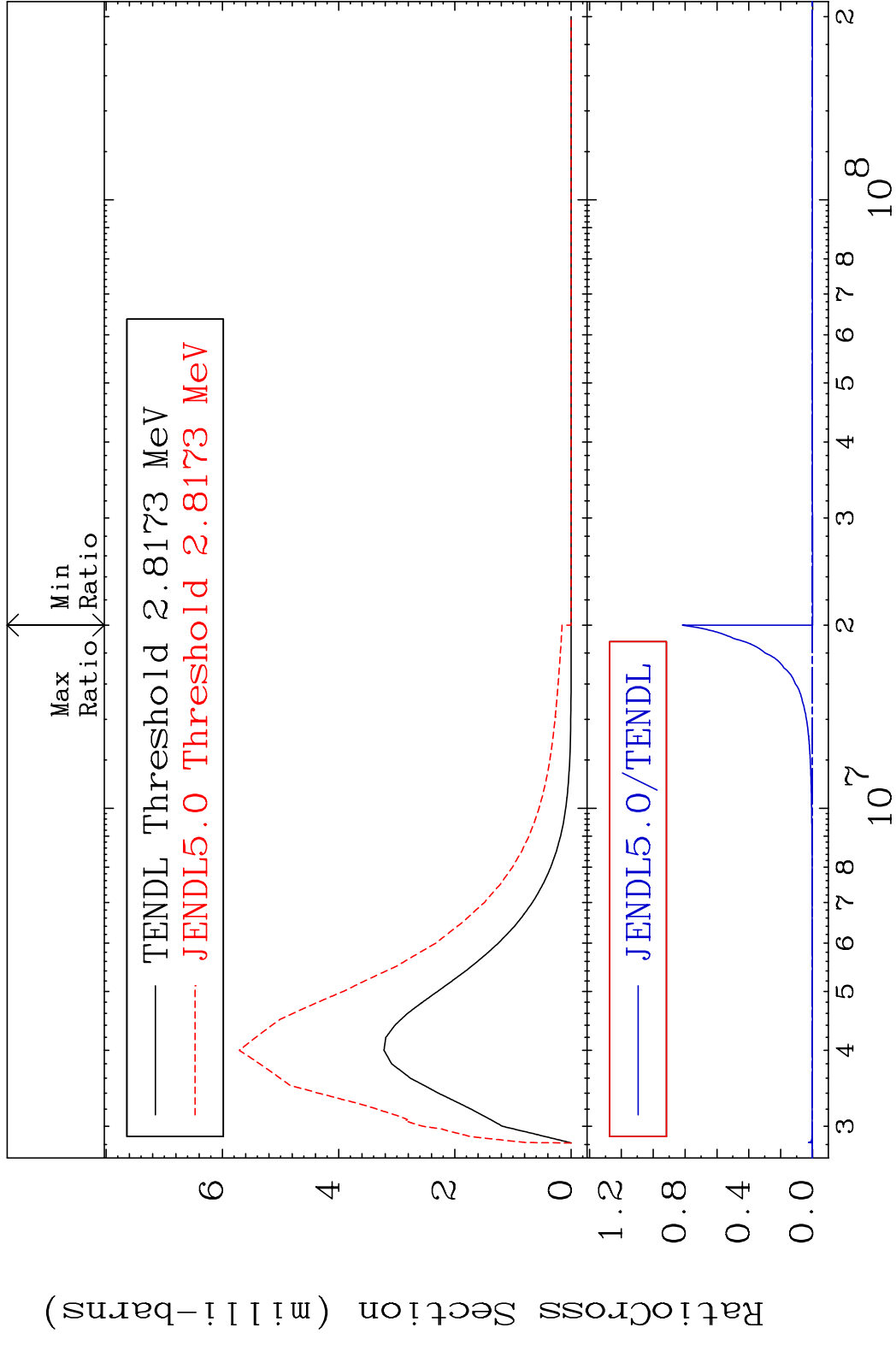


MAT 2428 MT= 65 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 22.69 %

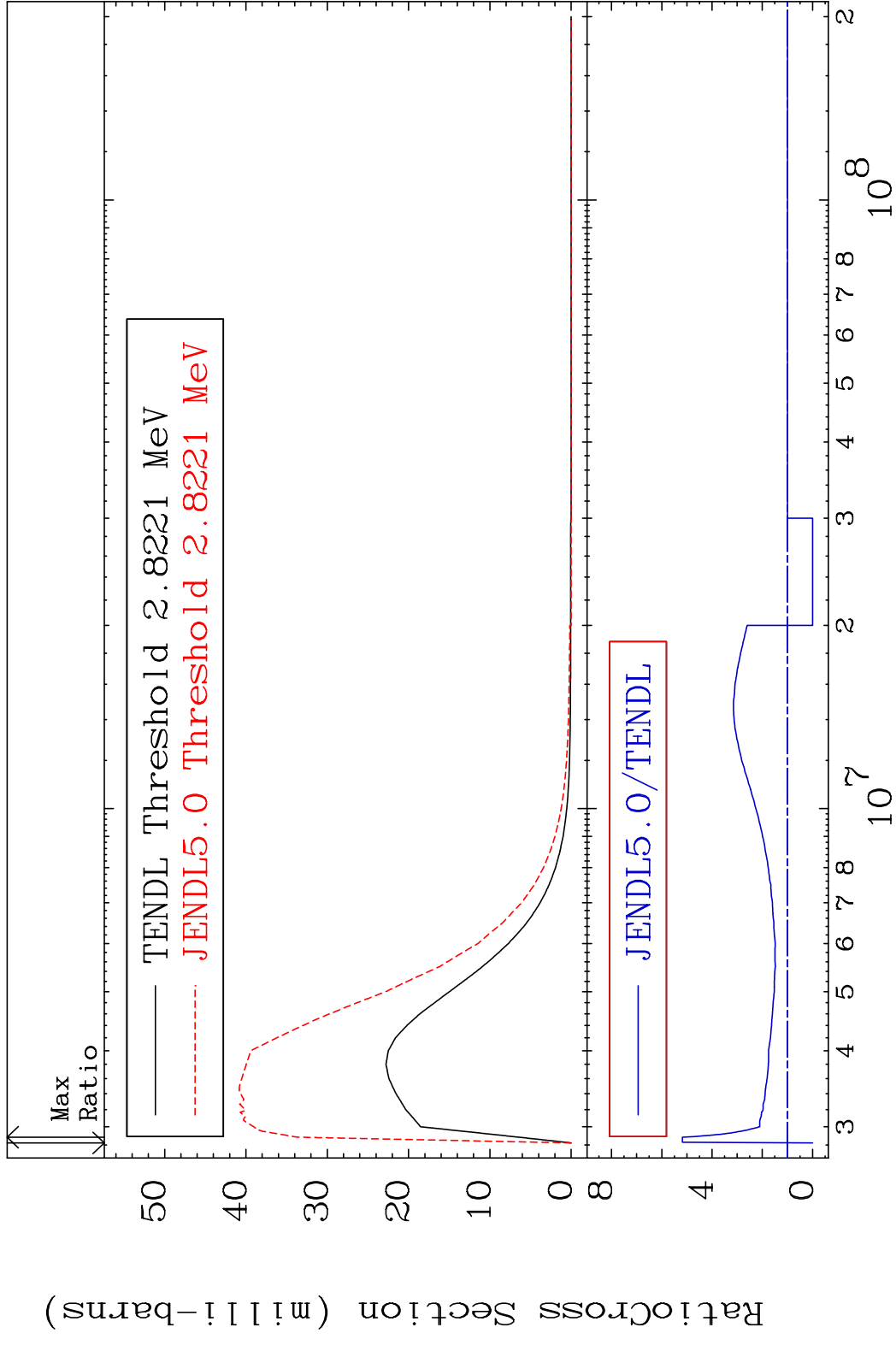




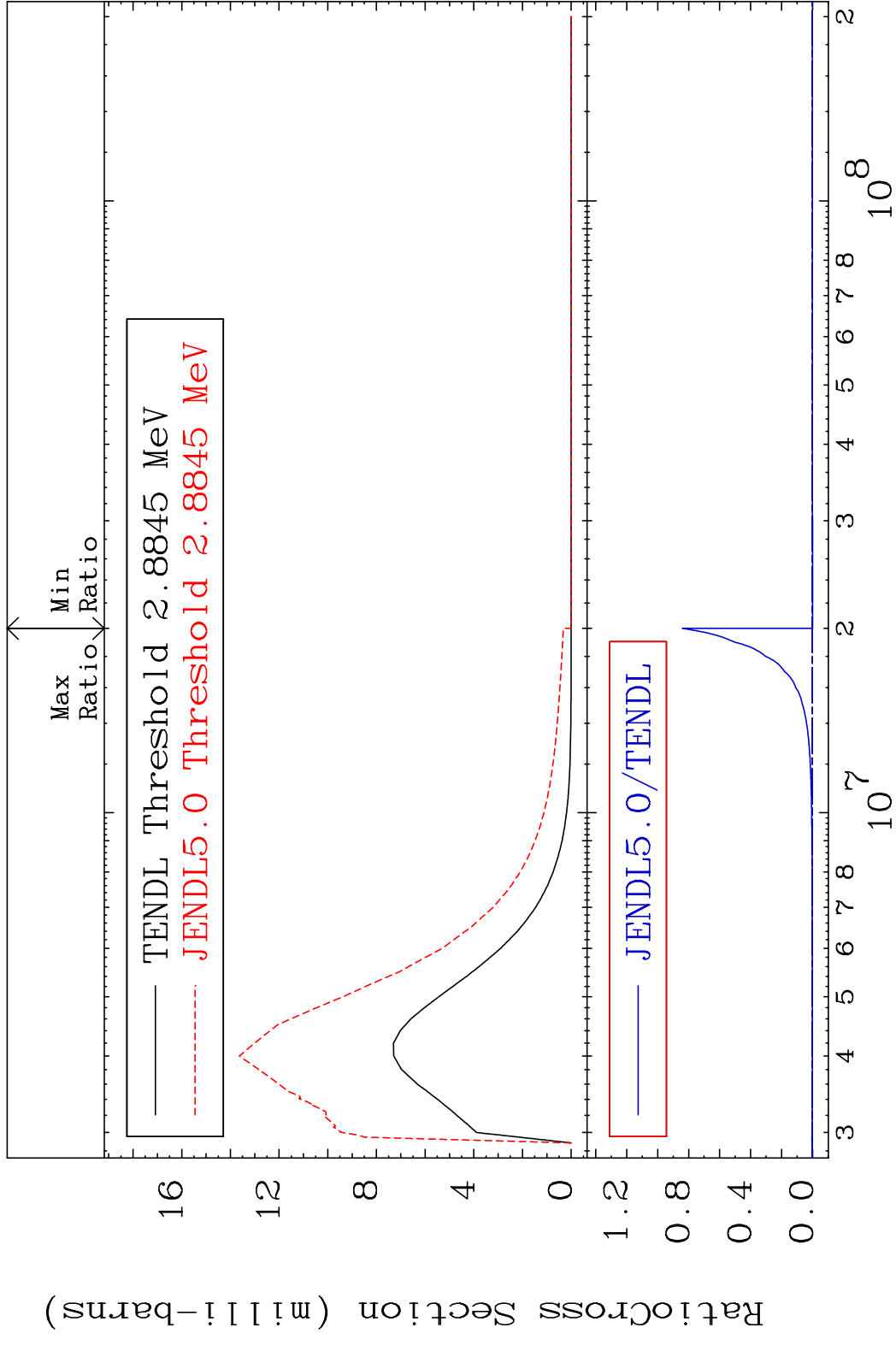
MAT 2428 MT= 66 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %



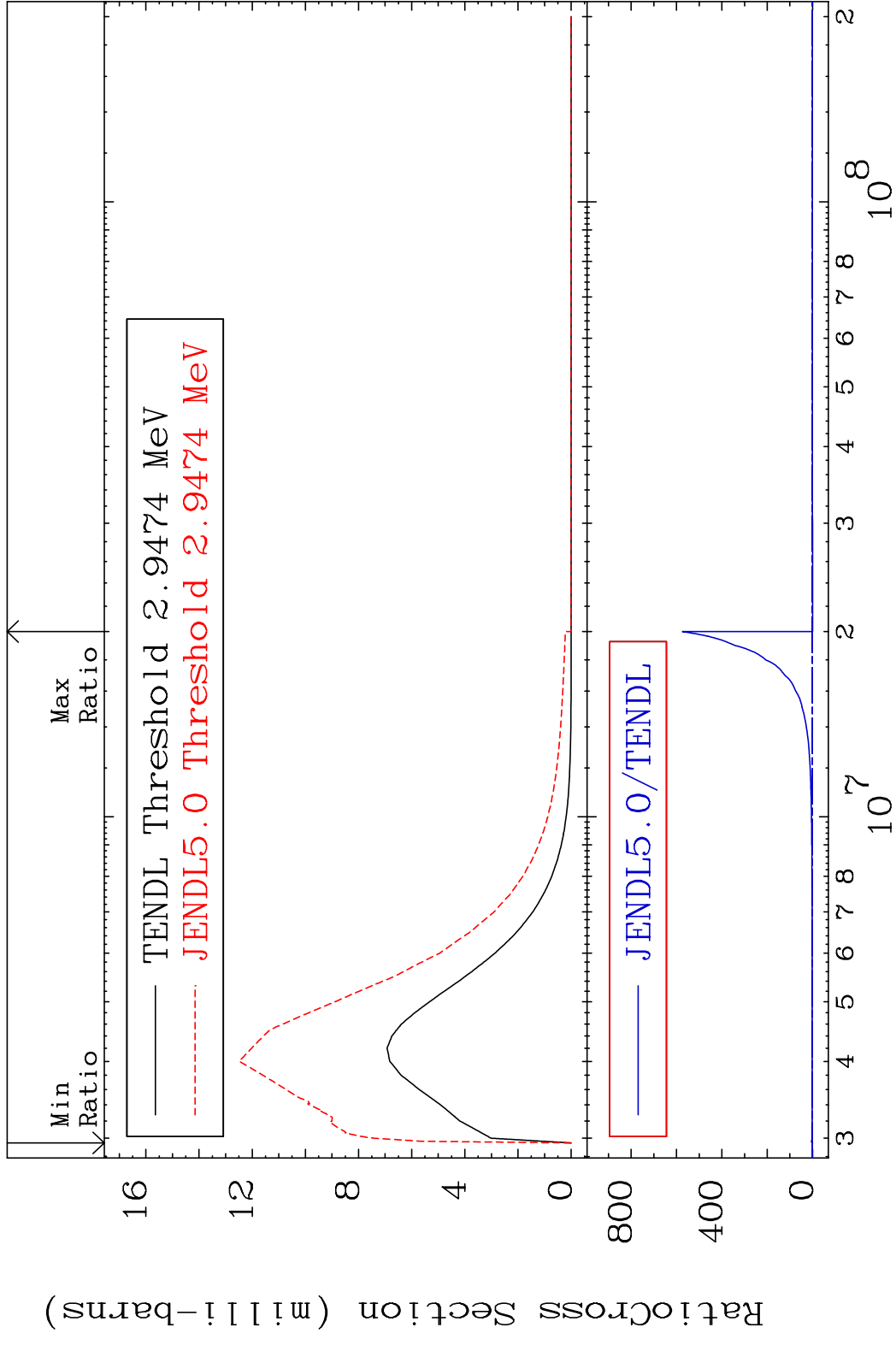
MAT 2428 MT= 67 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 418.1 %



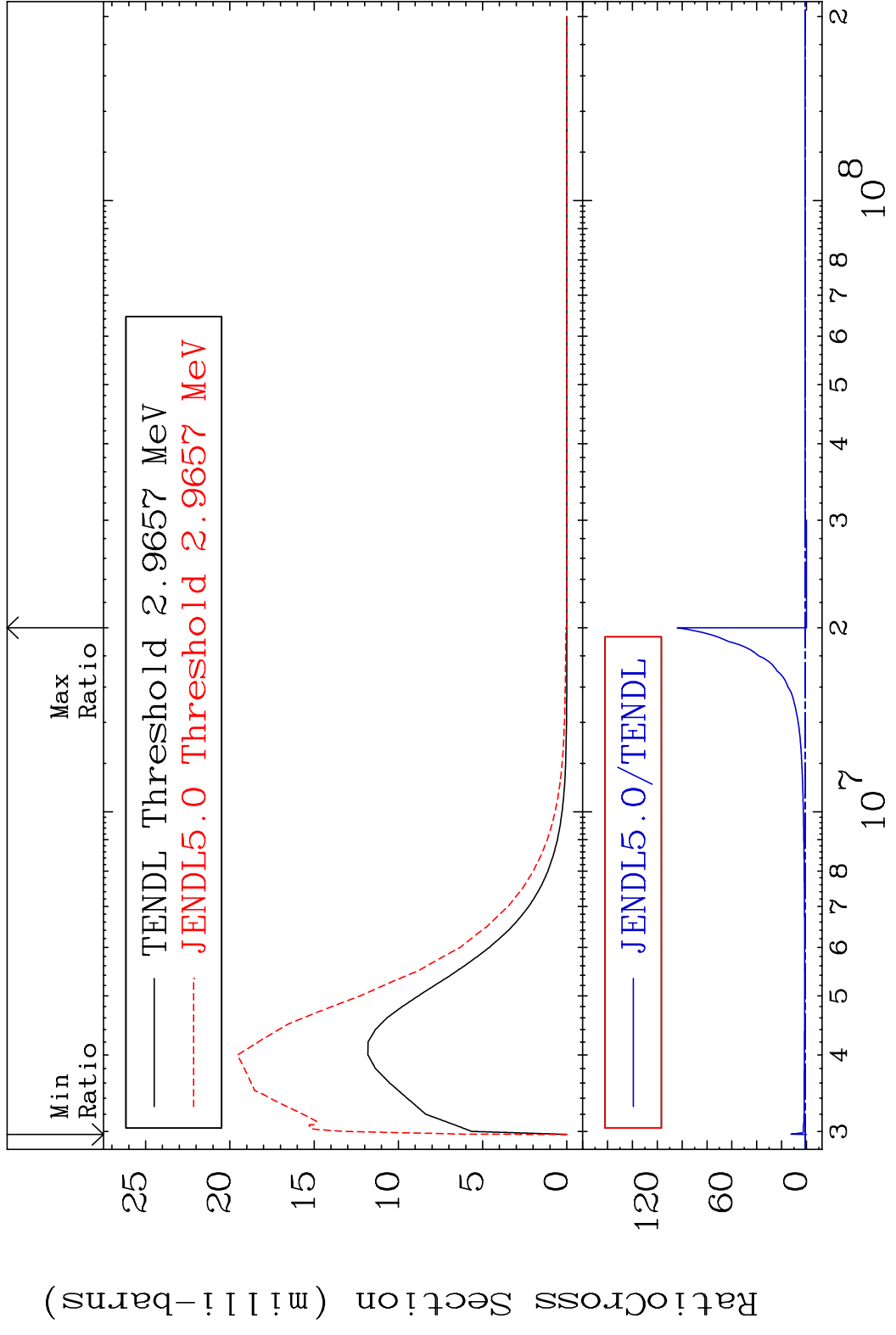
MAT 2428 MT= 68 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %



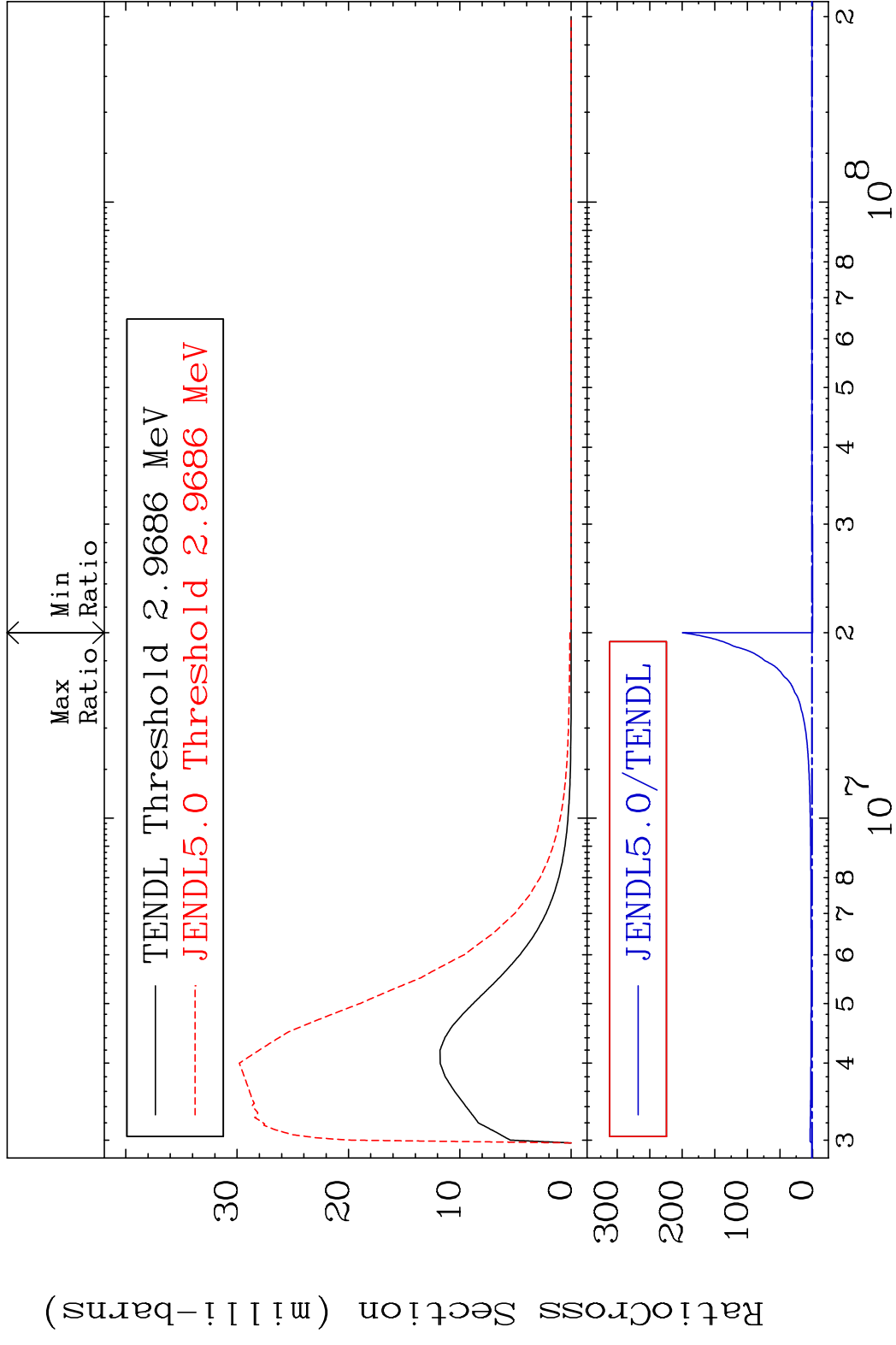
MAT 2428 MT= 69 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %



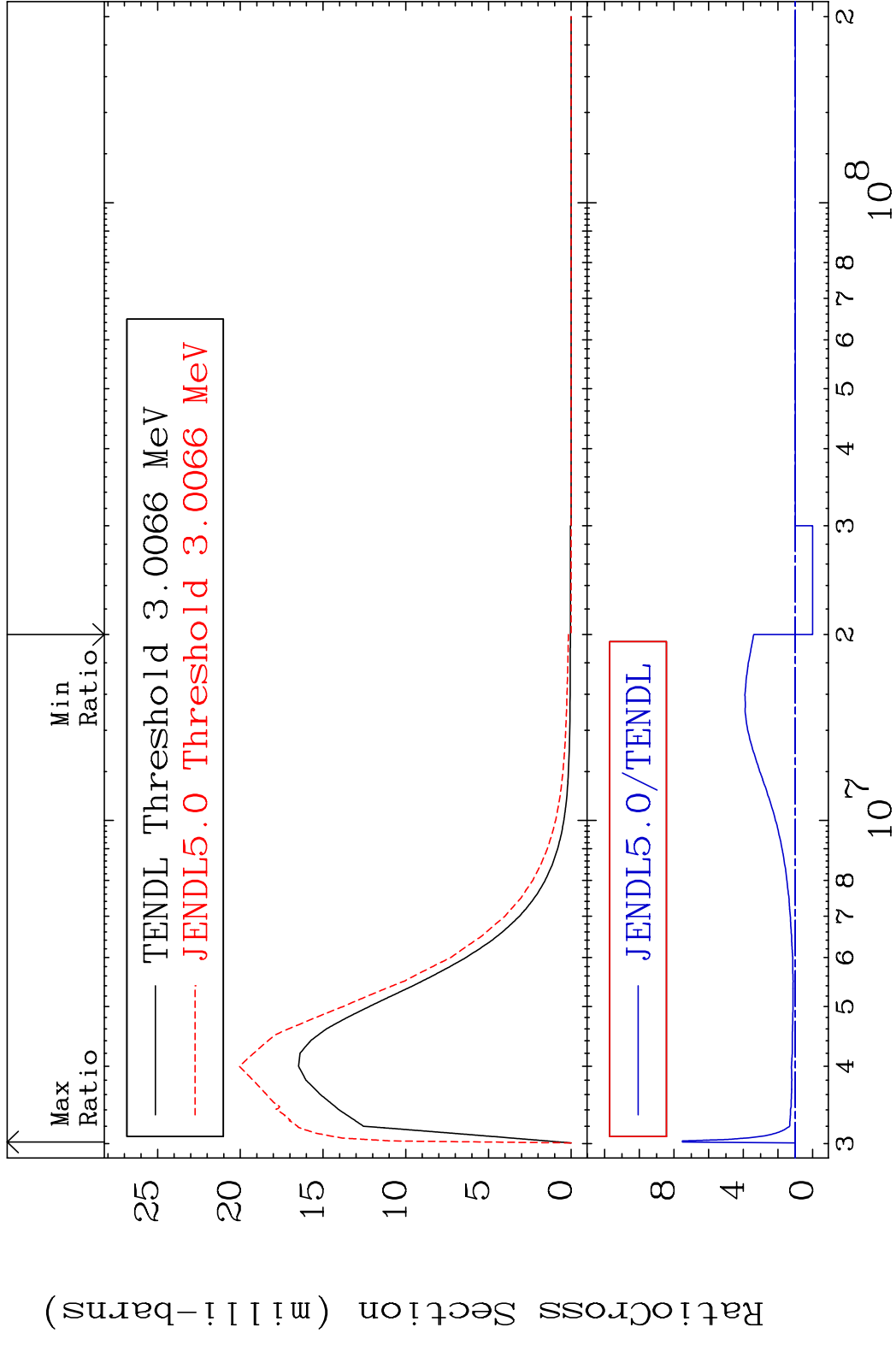
MAT 2428 MT= 70 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %



MAT 2428 MT= 71 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %

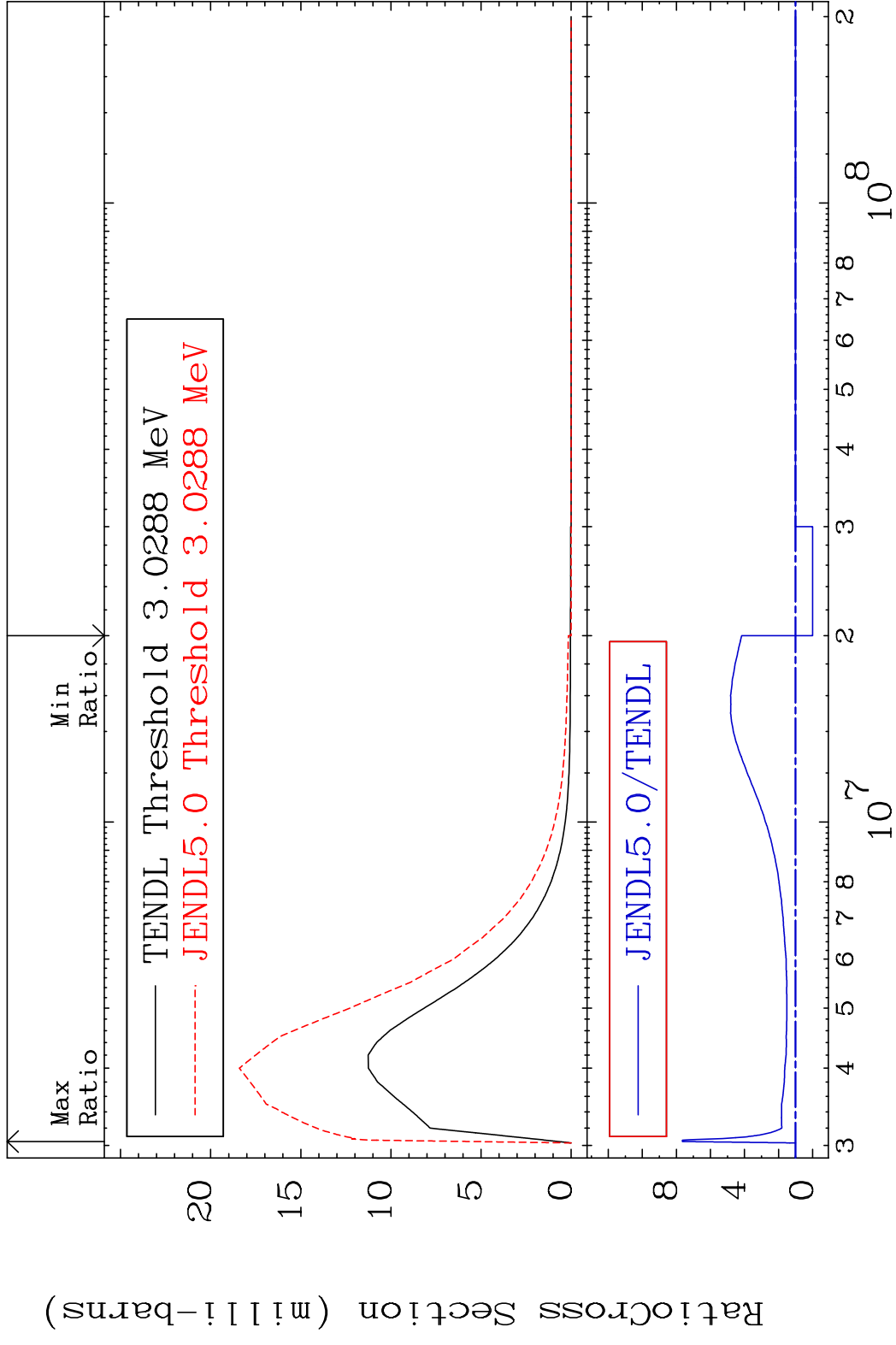


MAT 2428 MT= 72 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 651.1 %



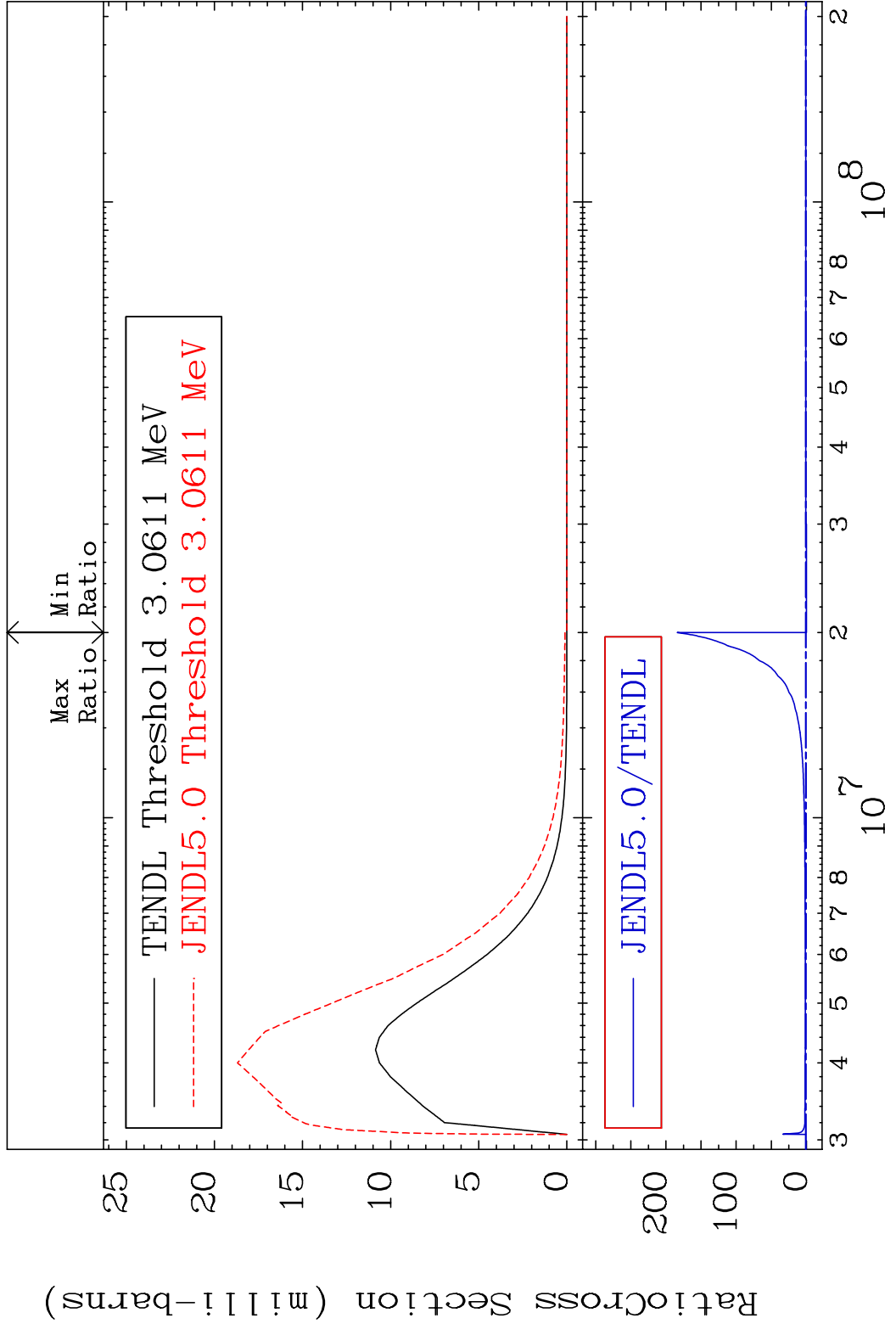
30 Incident Energy (eV) 24-Cr-51

MAT 2428 MT= 73 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 665.0 %

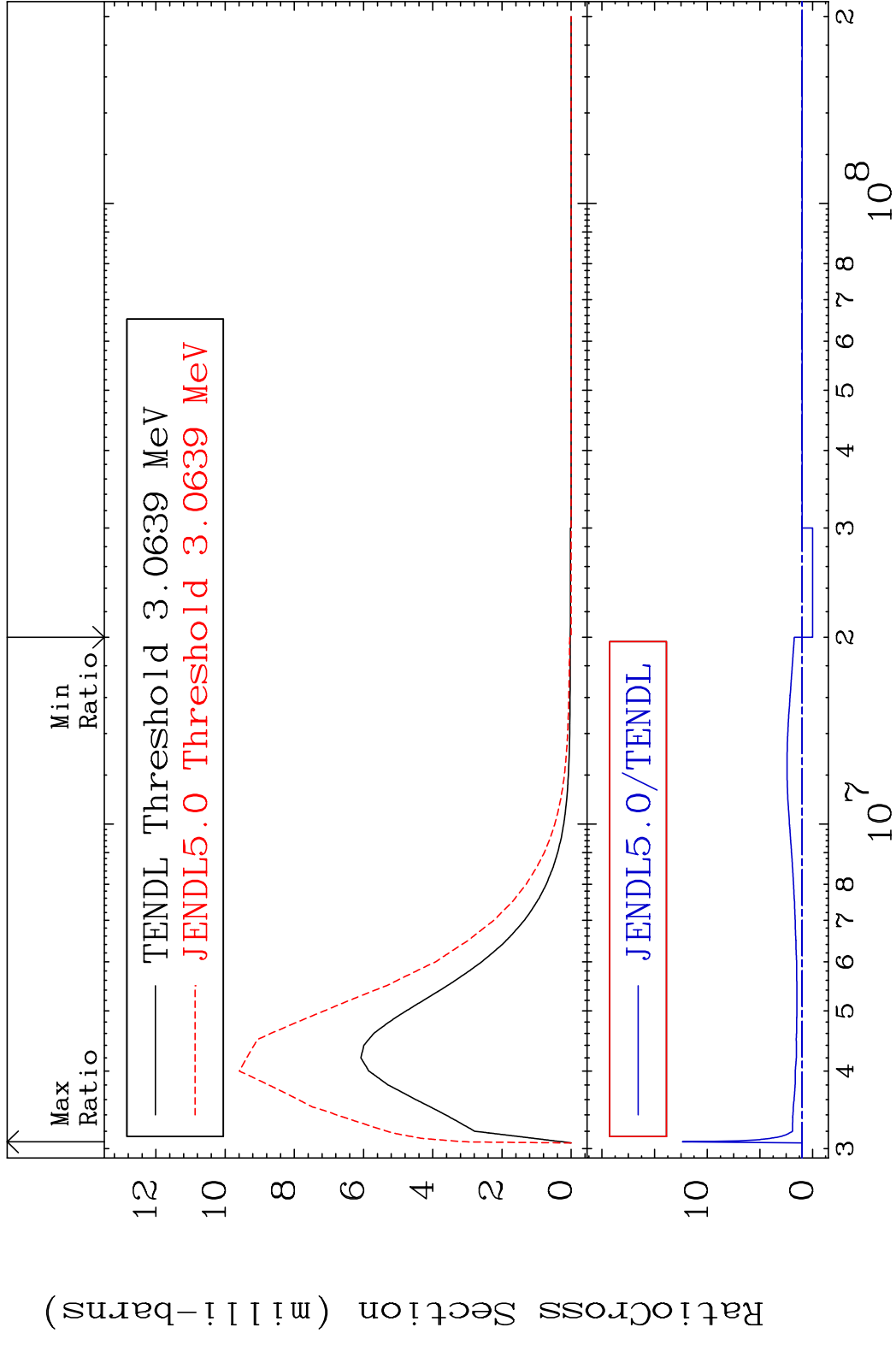




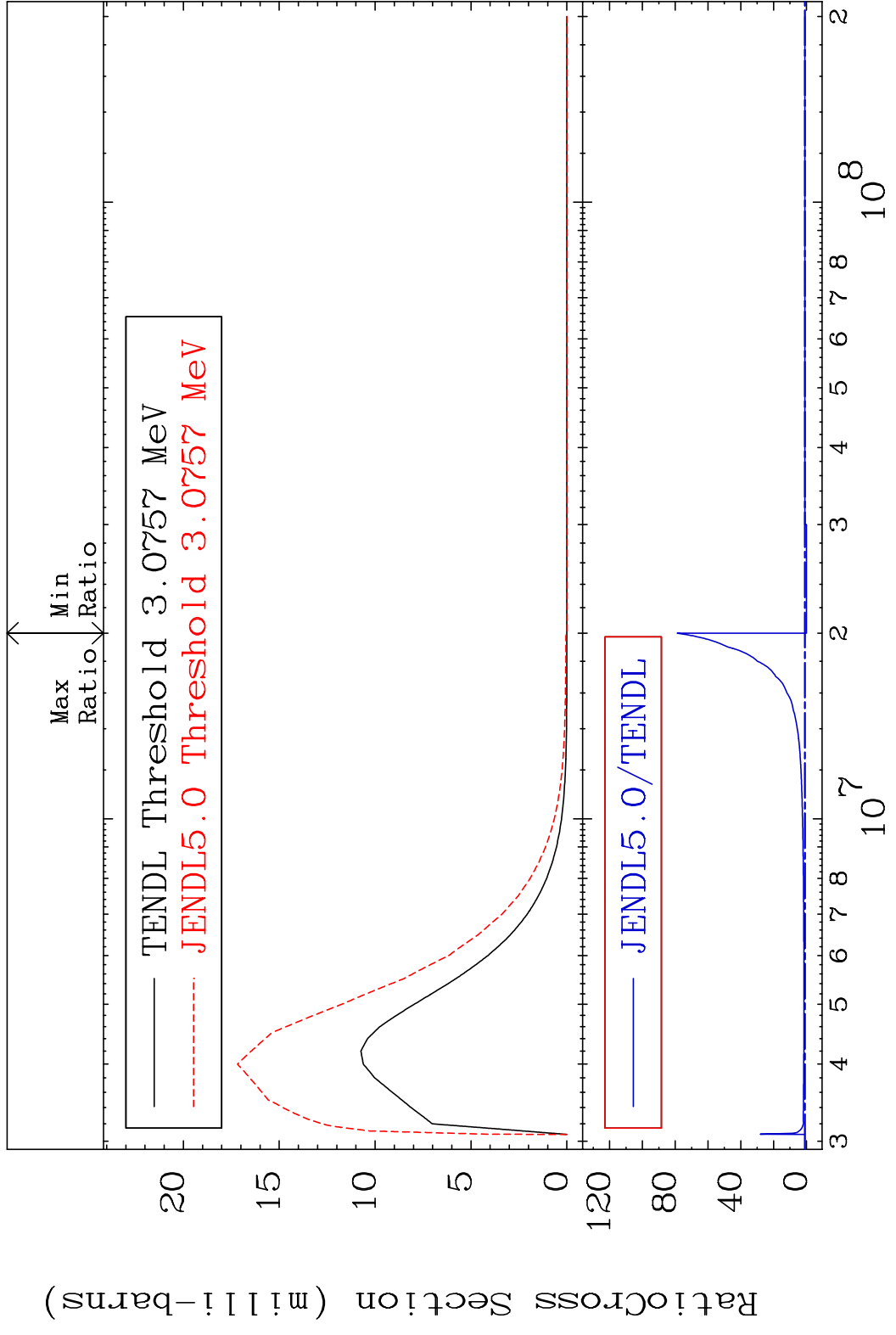
MAT 2428 MT= 74 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %



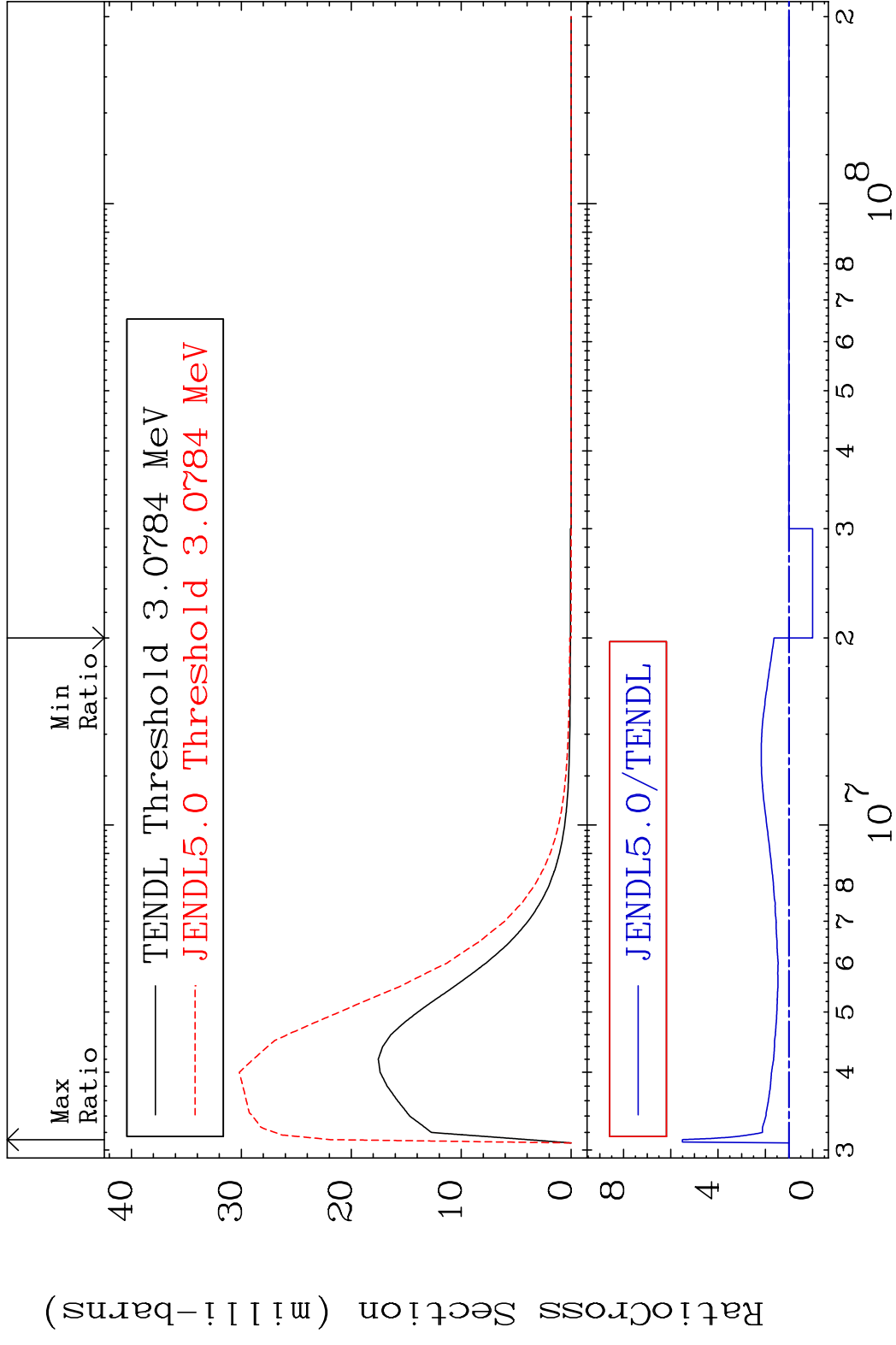
MAT 2428 MT= 75 (n,n') Level 24-Cr-51  
 Cross Section -100.0 To 1137. %



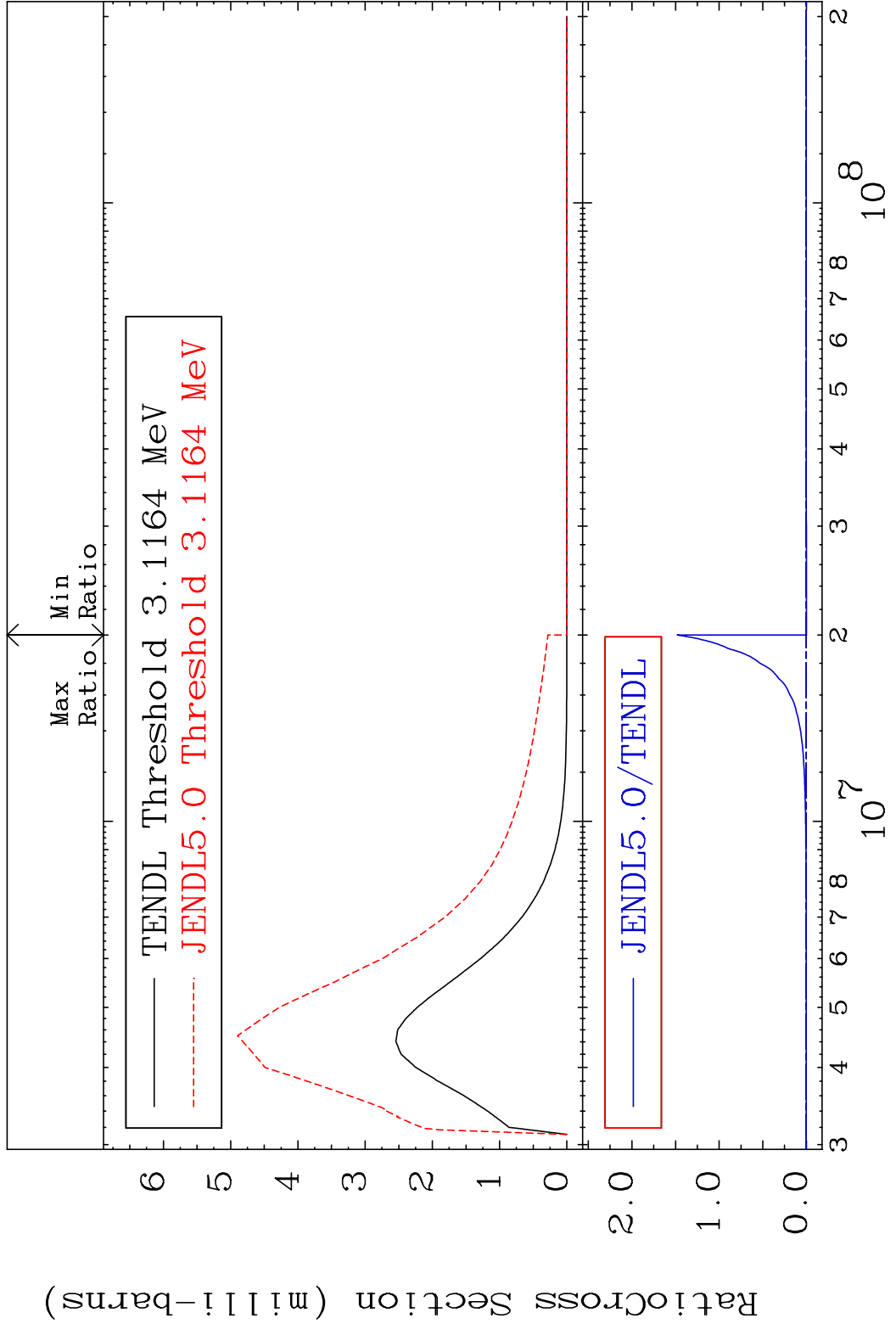
MAT 2428 MT= 76 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 7780. %



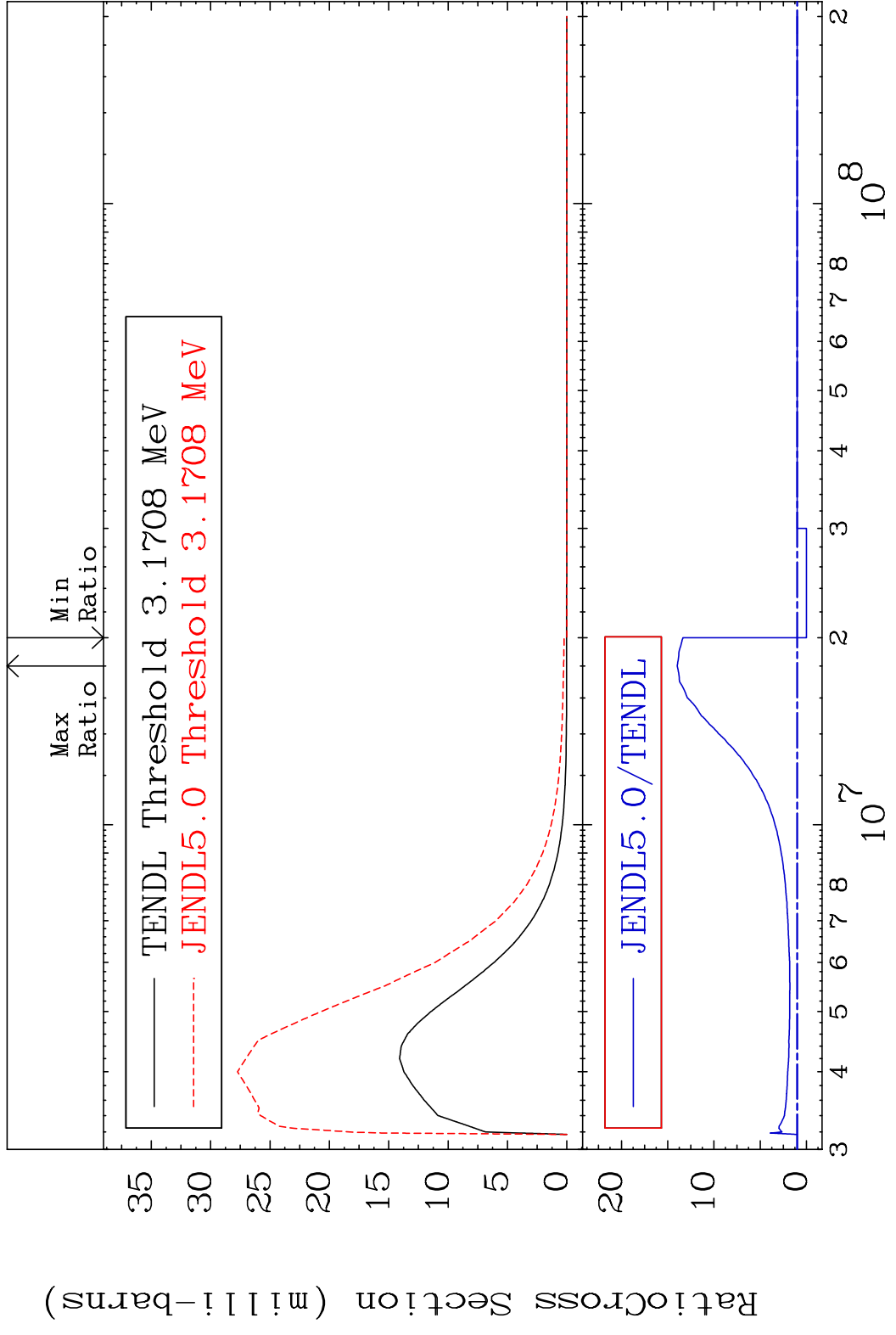
MAT 2428 MT= 77 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 451.1 %



MAT 2428 MT= 78 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 9999. %

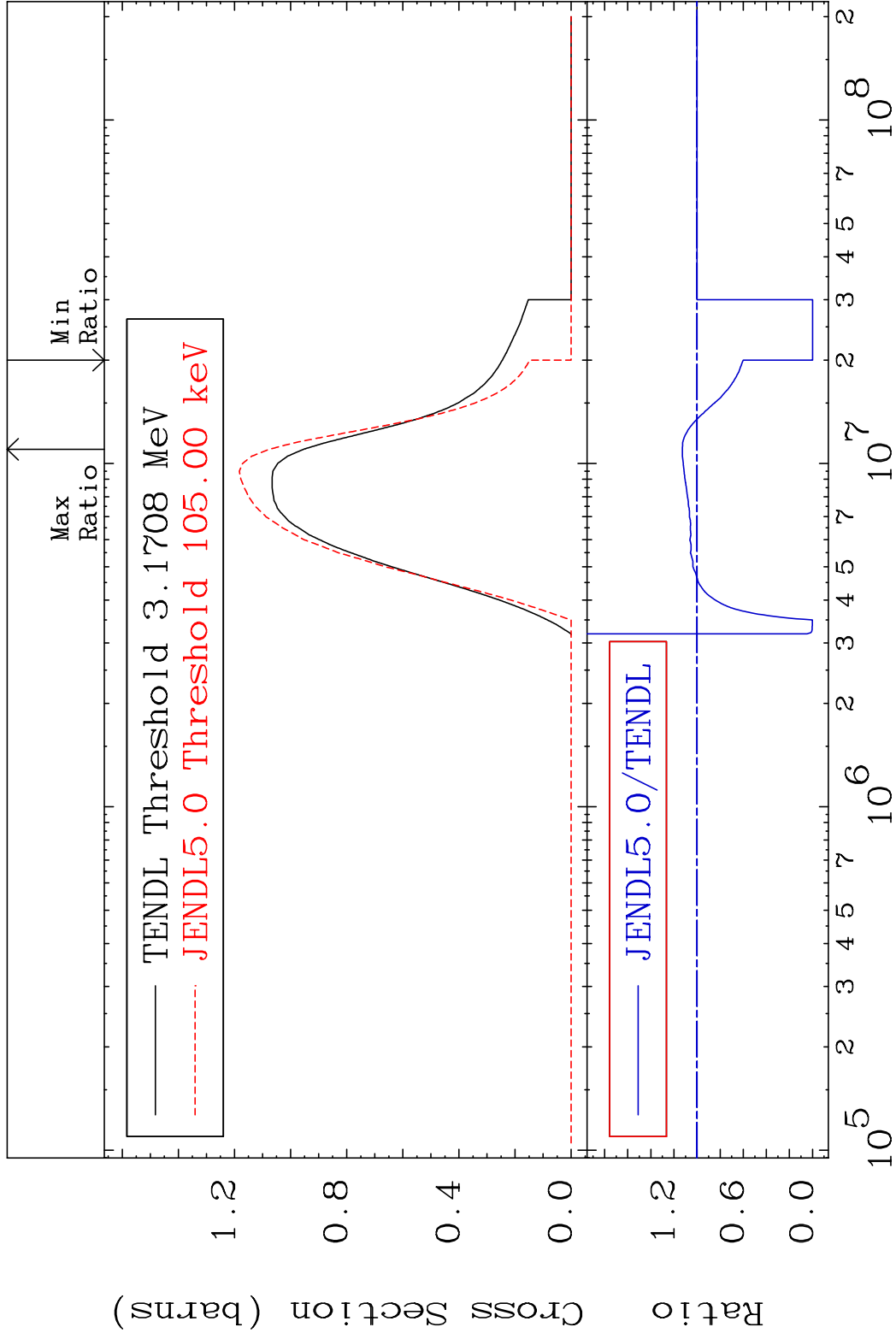


MAT 2428 MT= 79 (n, n') Level 24-Cr-51  
 Cross Section -100.0 To 1298. %



MAT 2428

(n, n') Continuum <sup>24</sup>Cr-51  
Cross Section -100.0 To 12.72 %



38

Incident Energy (eV)

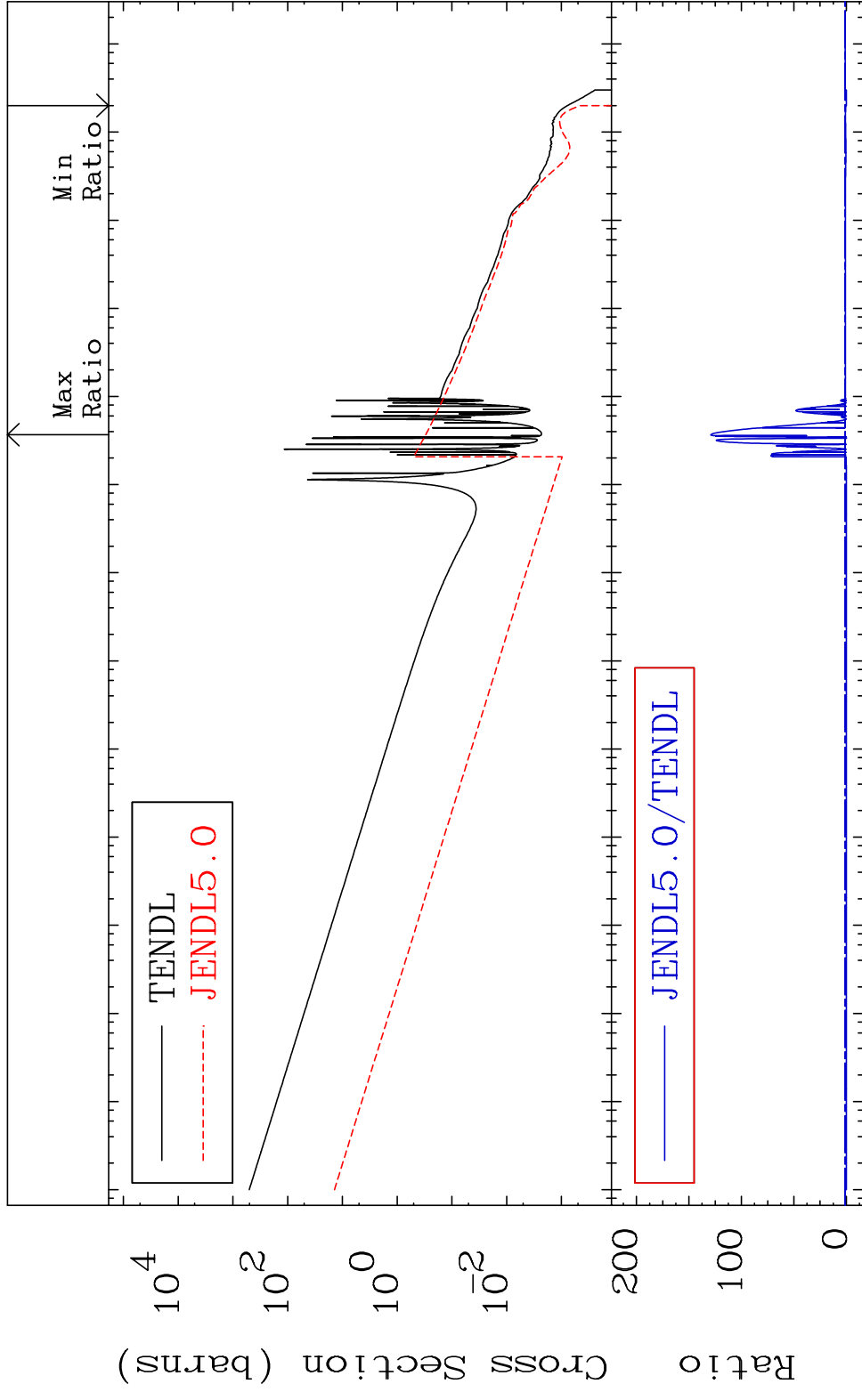
<sup>24</sup>Cr-51

MAT 2428

24-Cr-51

(n,  $\gamma$ )

Cross Section -100.0 To 9999. %



39

Incident Energy (eV)

24-Cr-51

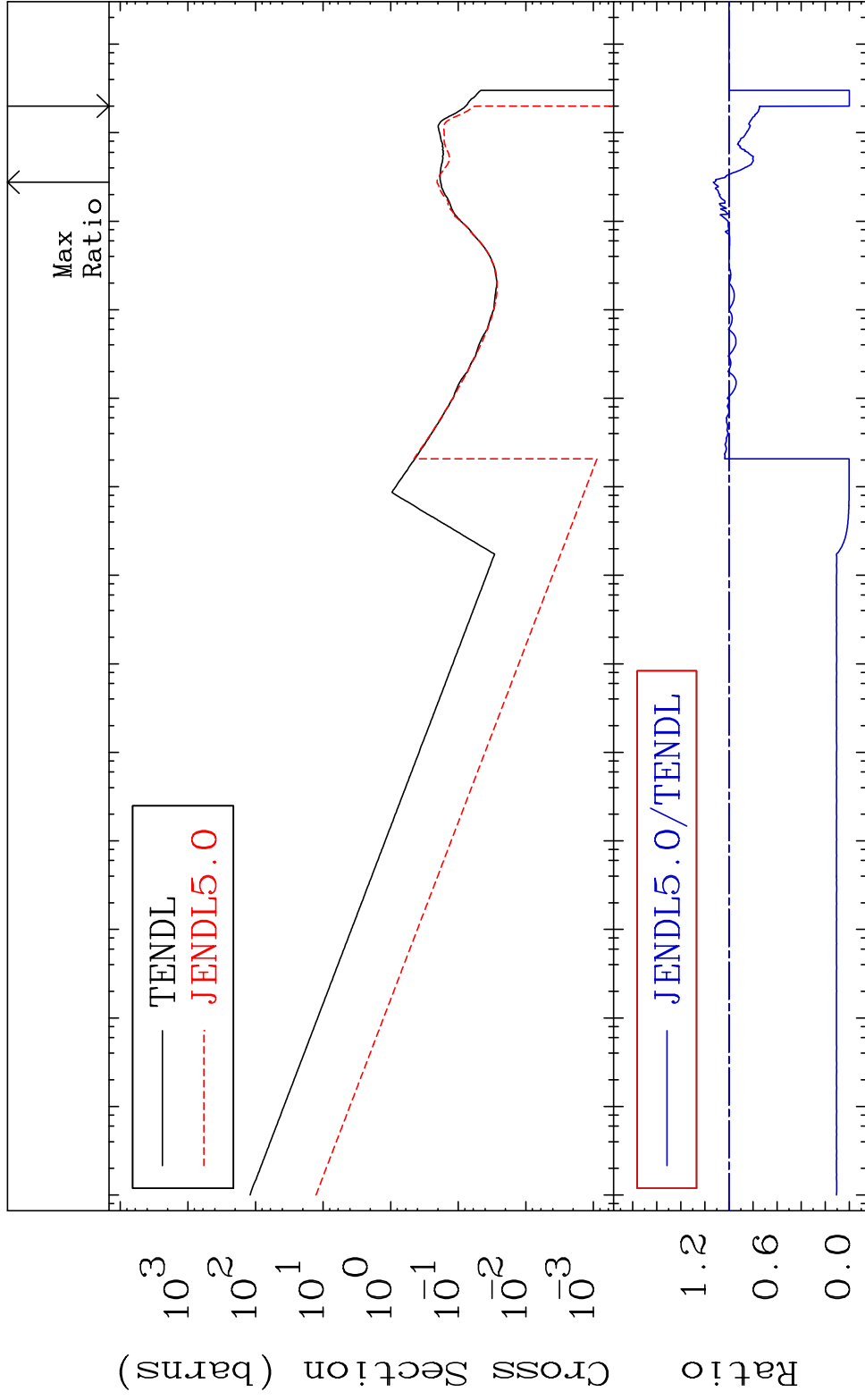


MAT 2428

(n, p)

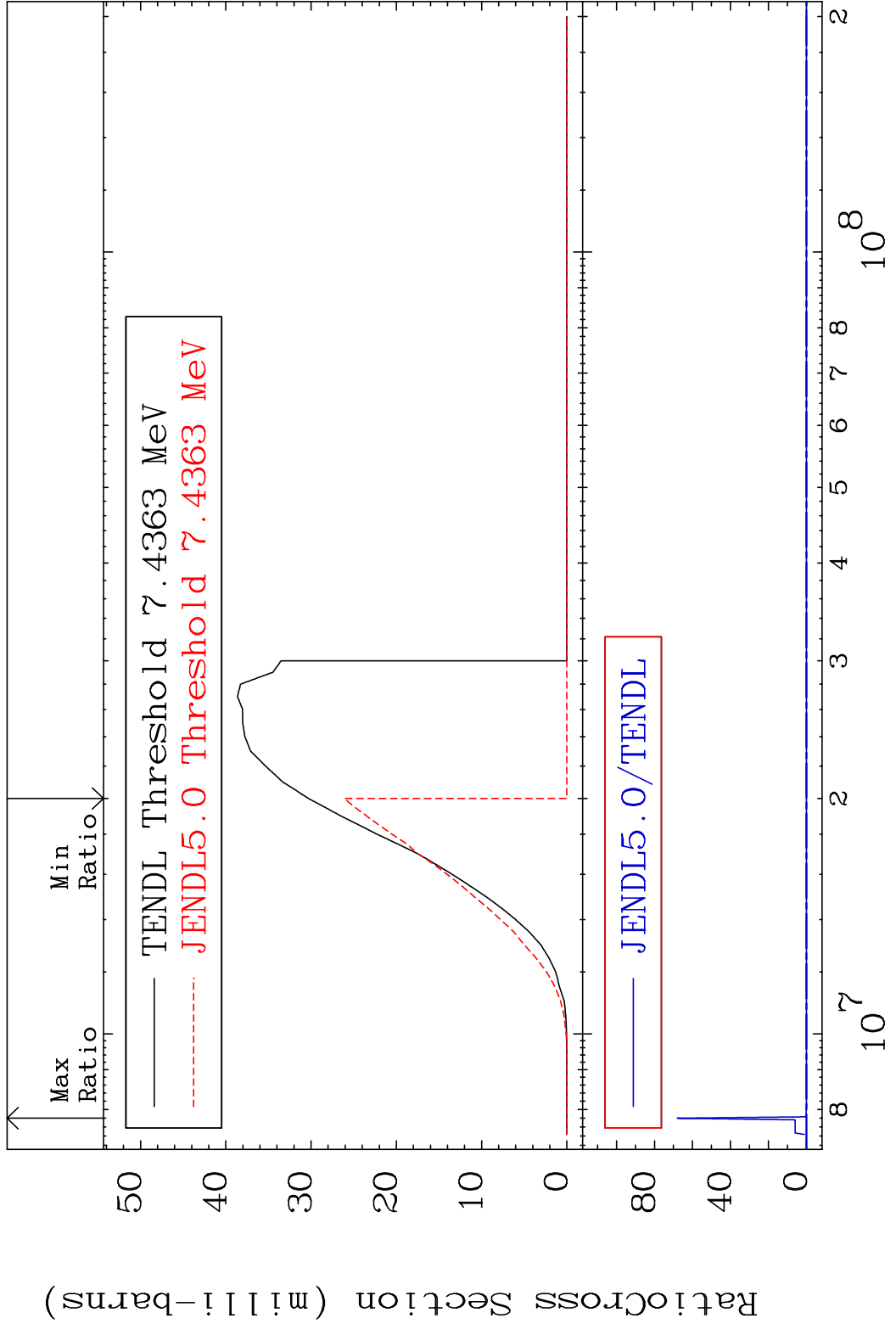
24-Cr-51

Cross Section -100.0 To 13.04 %



Incident Energy (eV) 40 24-Cr-51

MAT 2428 (n,d) 24-Cr-51  
 Cross Section -100.0 To 9999. %



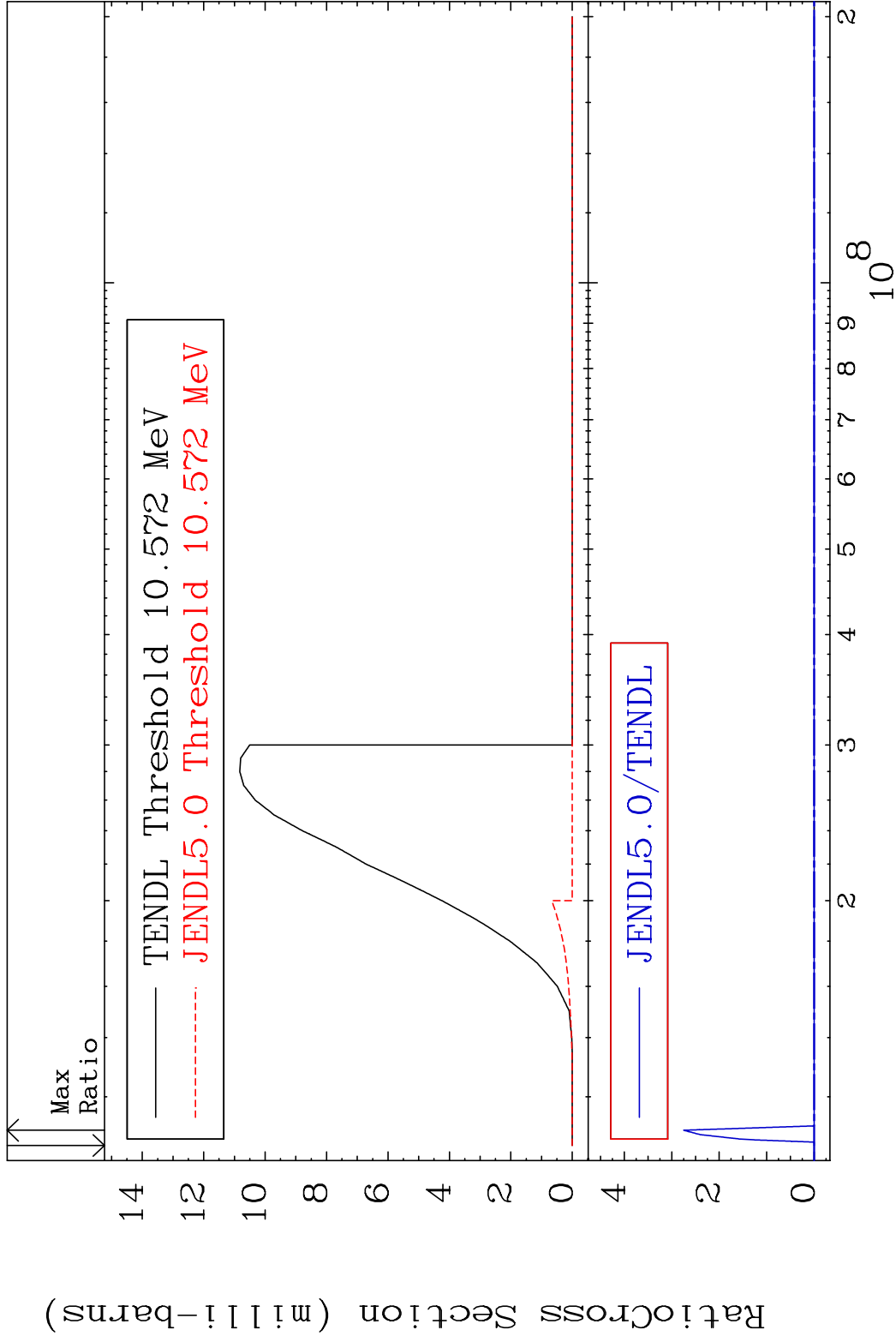
41 Incident Energy (eV) 24-Cr-51

MAT 2428

(n, t)

24-Cr-51

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

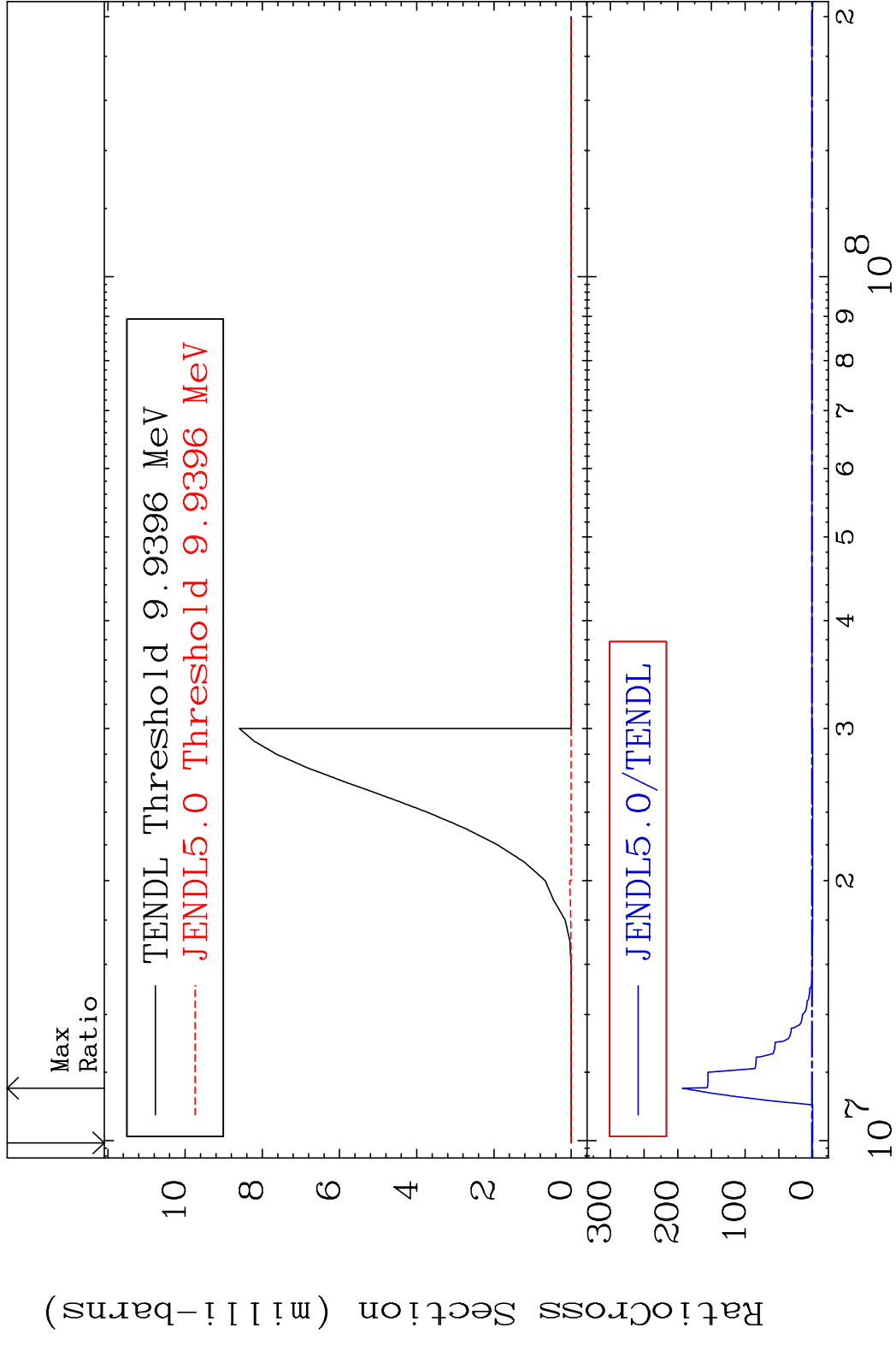
24-Cr-51

MAT 2428

(n, He-3)

<sup>24</sup>Cr-51

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

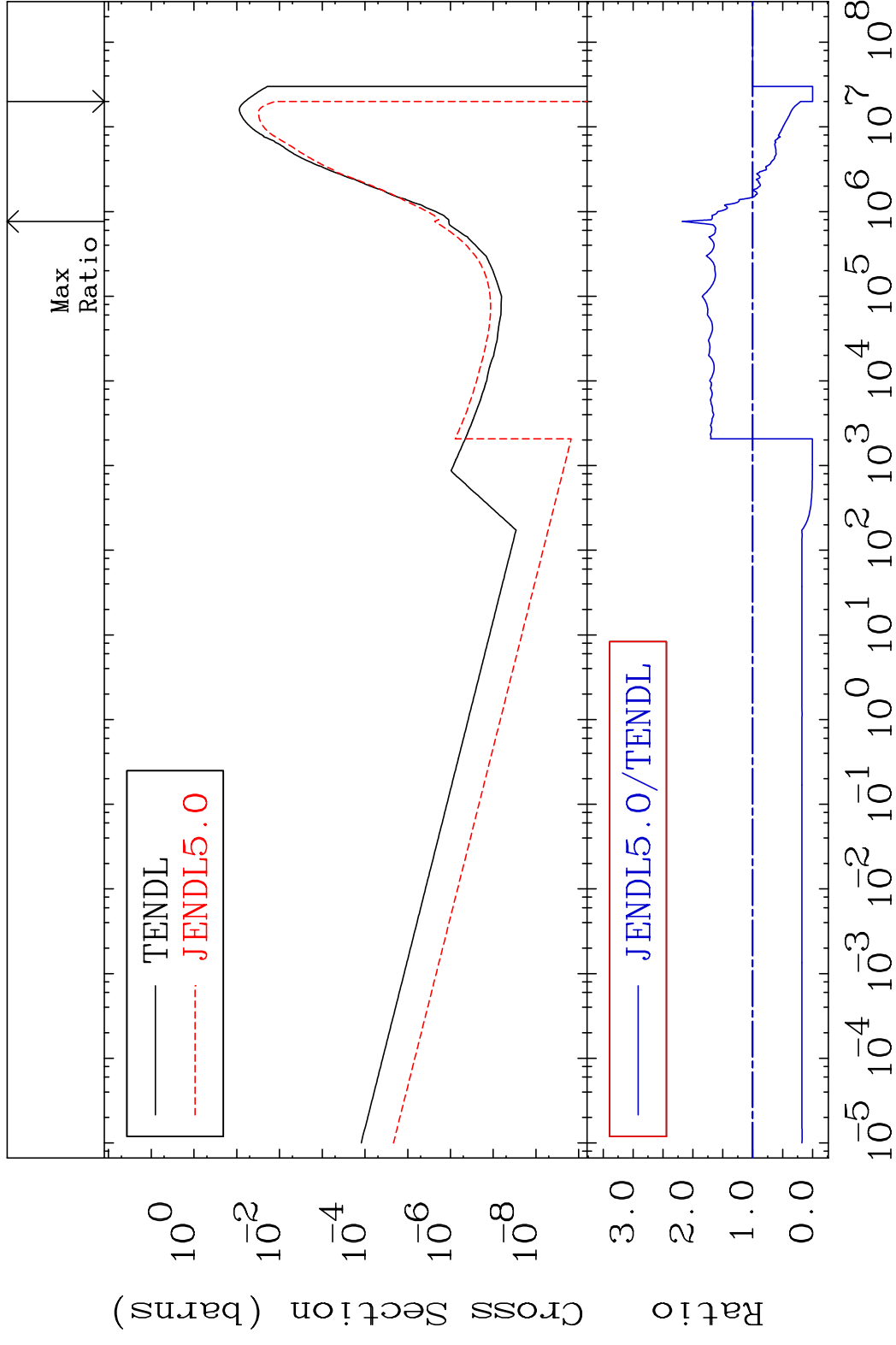
<sup>24</sup>Cr-51

MAT 2428

(n,  $\alpha$ )

24-Cr-51

Cross Section -100.0 To 117.7 %



44

Incident Energy (eV)

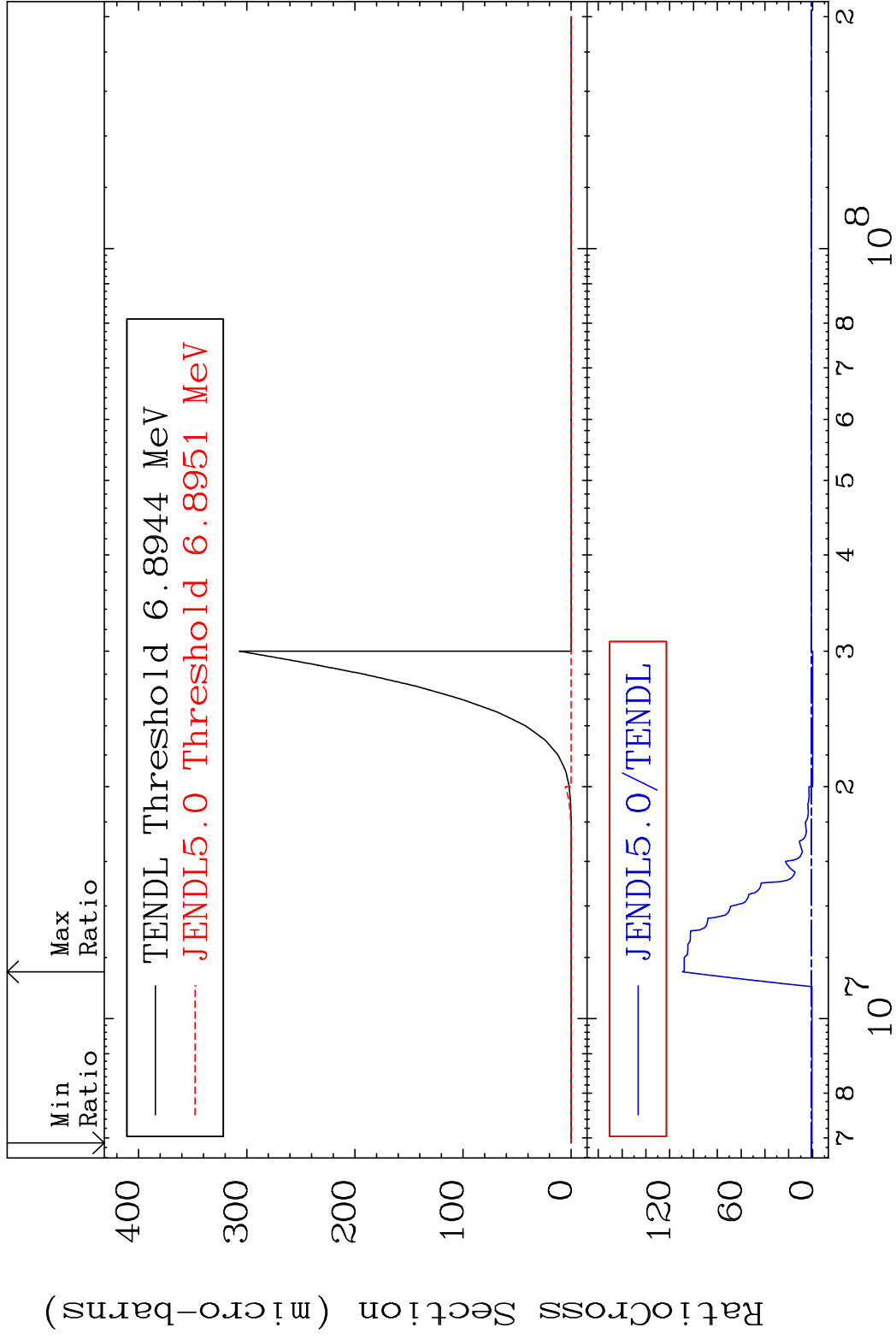
24-Cr-51

MAT 2428

(n,2α)

<sup>24</sup>Cr-51

Cross Section -100.0 To 9999. %

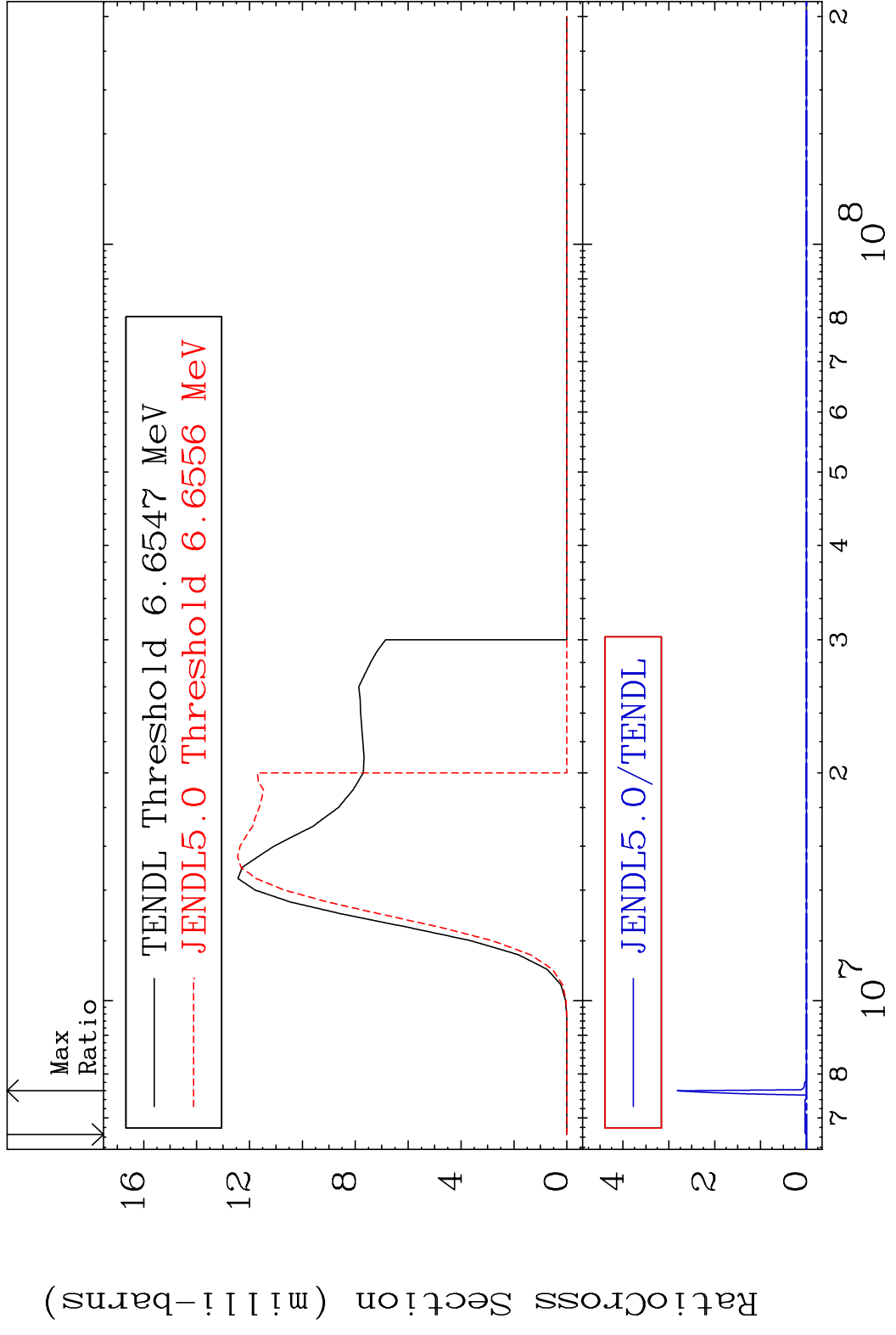


45

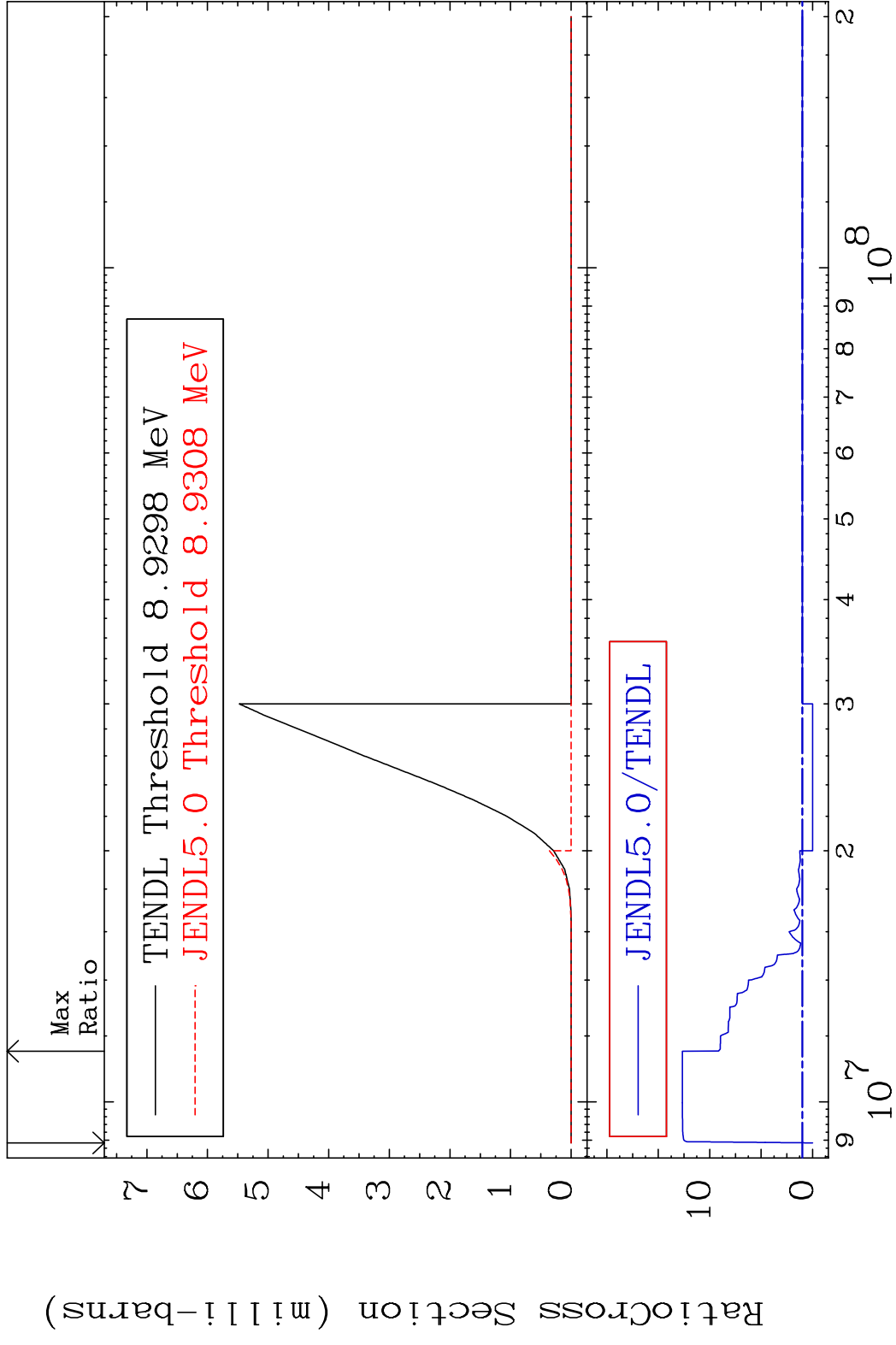
Incident Energy (eV)

<sup>24</sup>Cr-51

MAT 2428 (n,2p) 24-Cr-51  
 Cross Section -100.0 To 9999. %



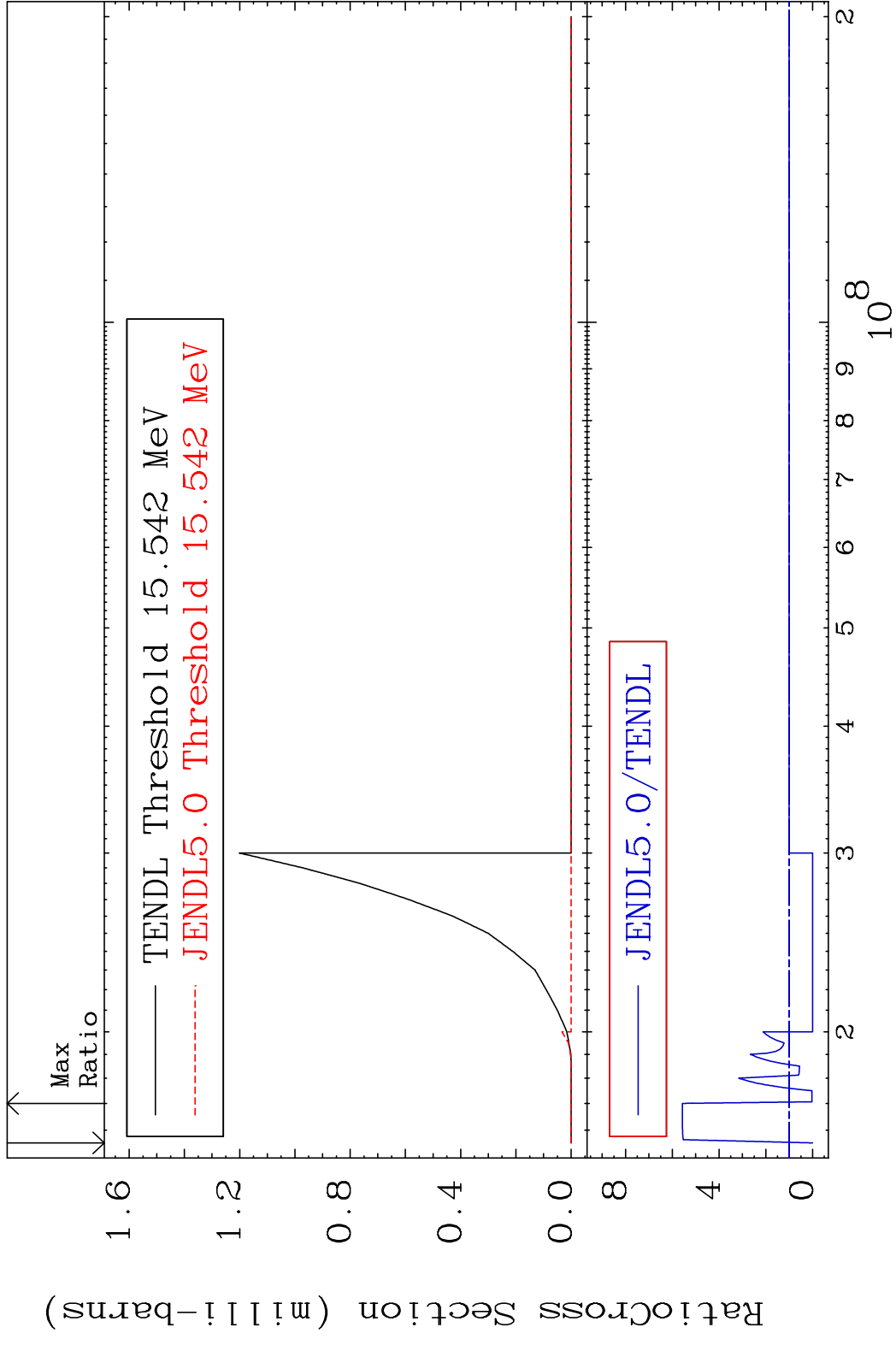
MAT 2428 (n,p)  $\alpha$   $^{24}\text{Cr-51}$   
 Cross Section -100.0 To 1166. %



47  $^{24}\text{Cr-51}$



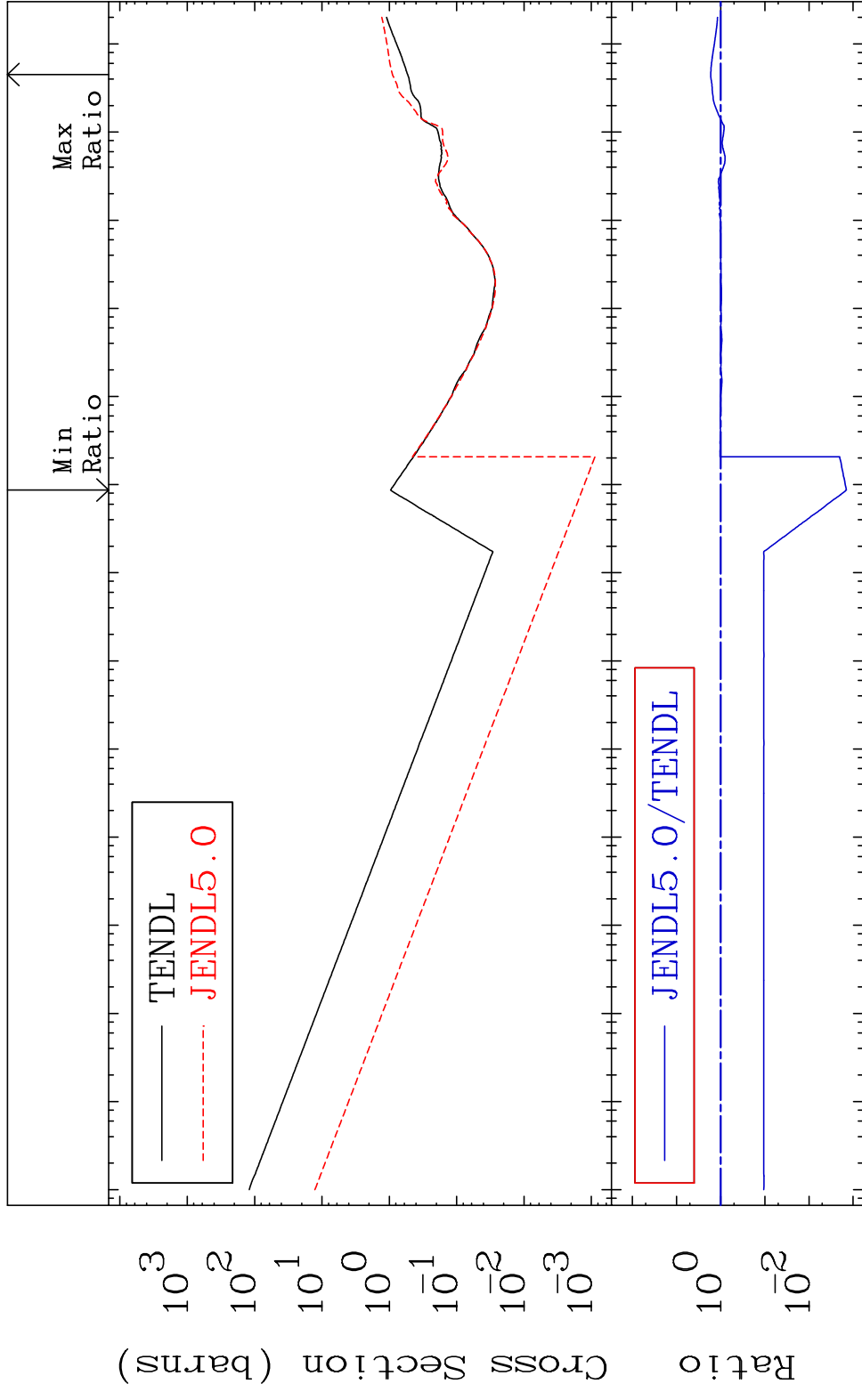
MAT 2428 (n,p) d <sup>24</sup>Cr-51  
 Cross Section -100.0 To 457.0 %



MAT 2428

Hydrogen Production  
Cross Section

24-Cr-51  
-99.86 To 67.85 %

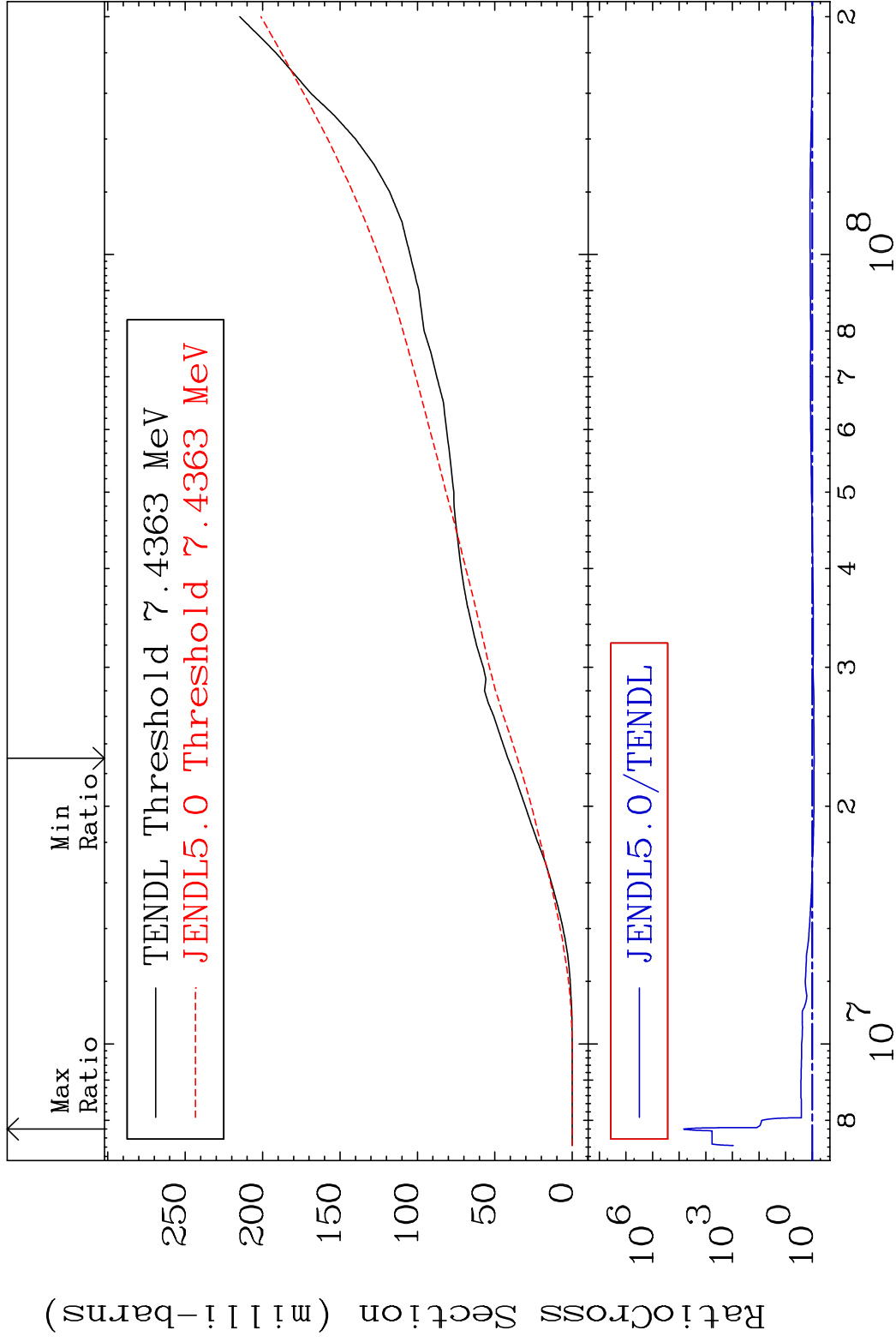


MAT 2428

Deuterium Production

<sup>24</sup>Cr-51

Cross Section -14.81 To 9999. %

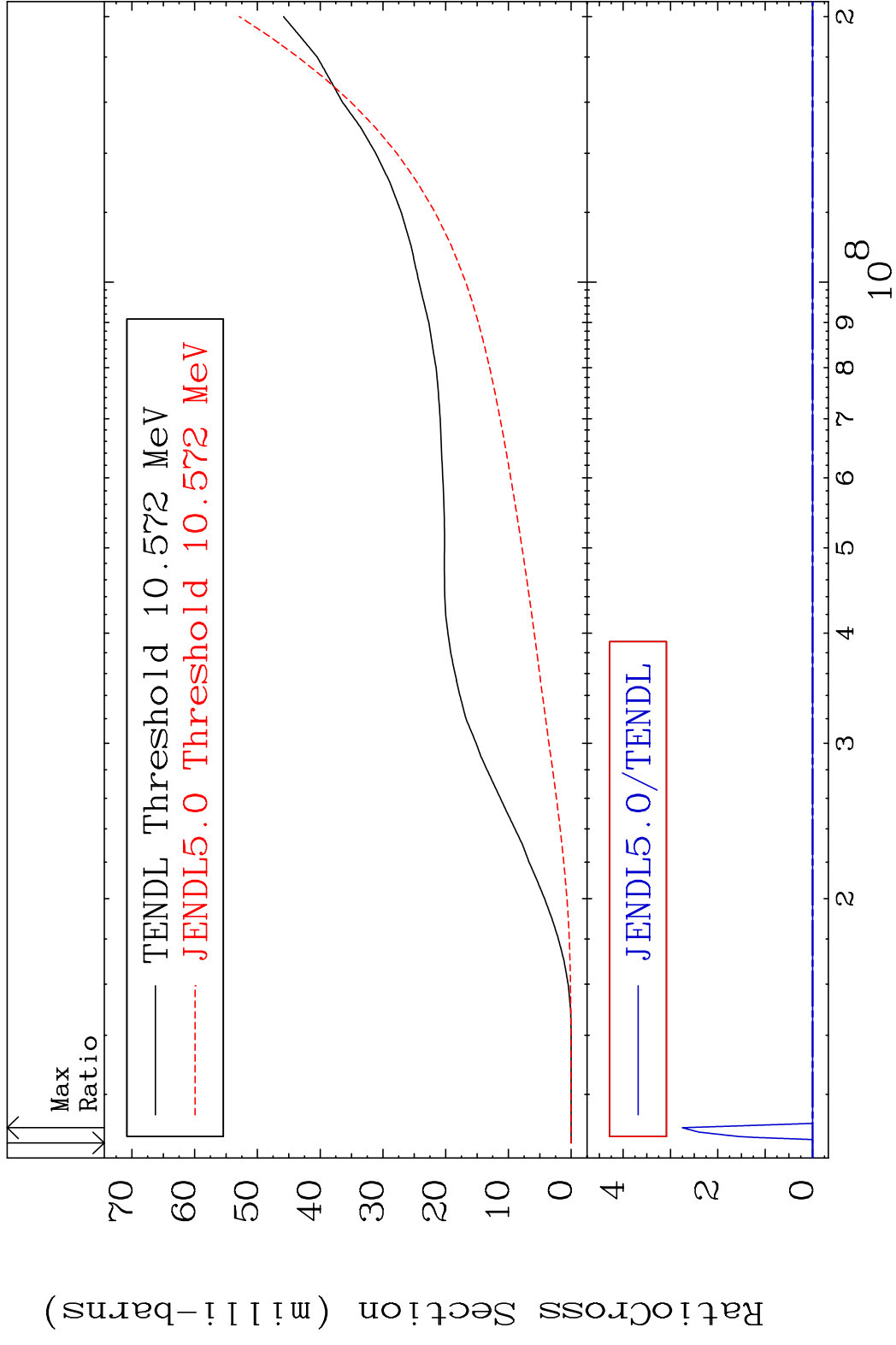


50

Incident Energy (eV)

<sup>24</sup>Cr-51

MAT 2428 Tritium Production 24-Cr-51  
 Cross Section -100.0 To 9999. %

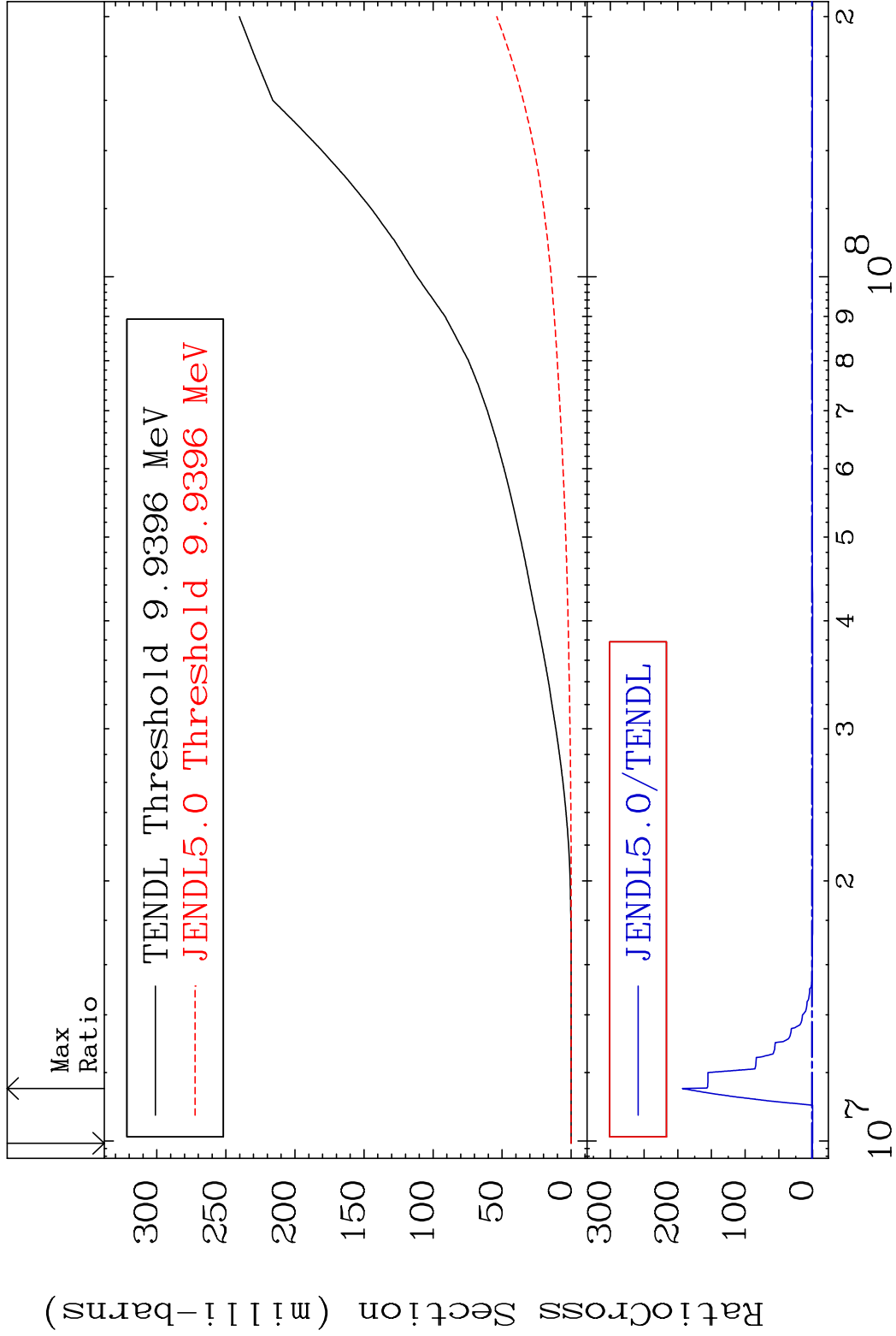


MAT 2428

He-3 Production

<sup>24</sup>Cr-51

Cross Section -100.0 To 9999. %



52

Incident Energy (eV)

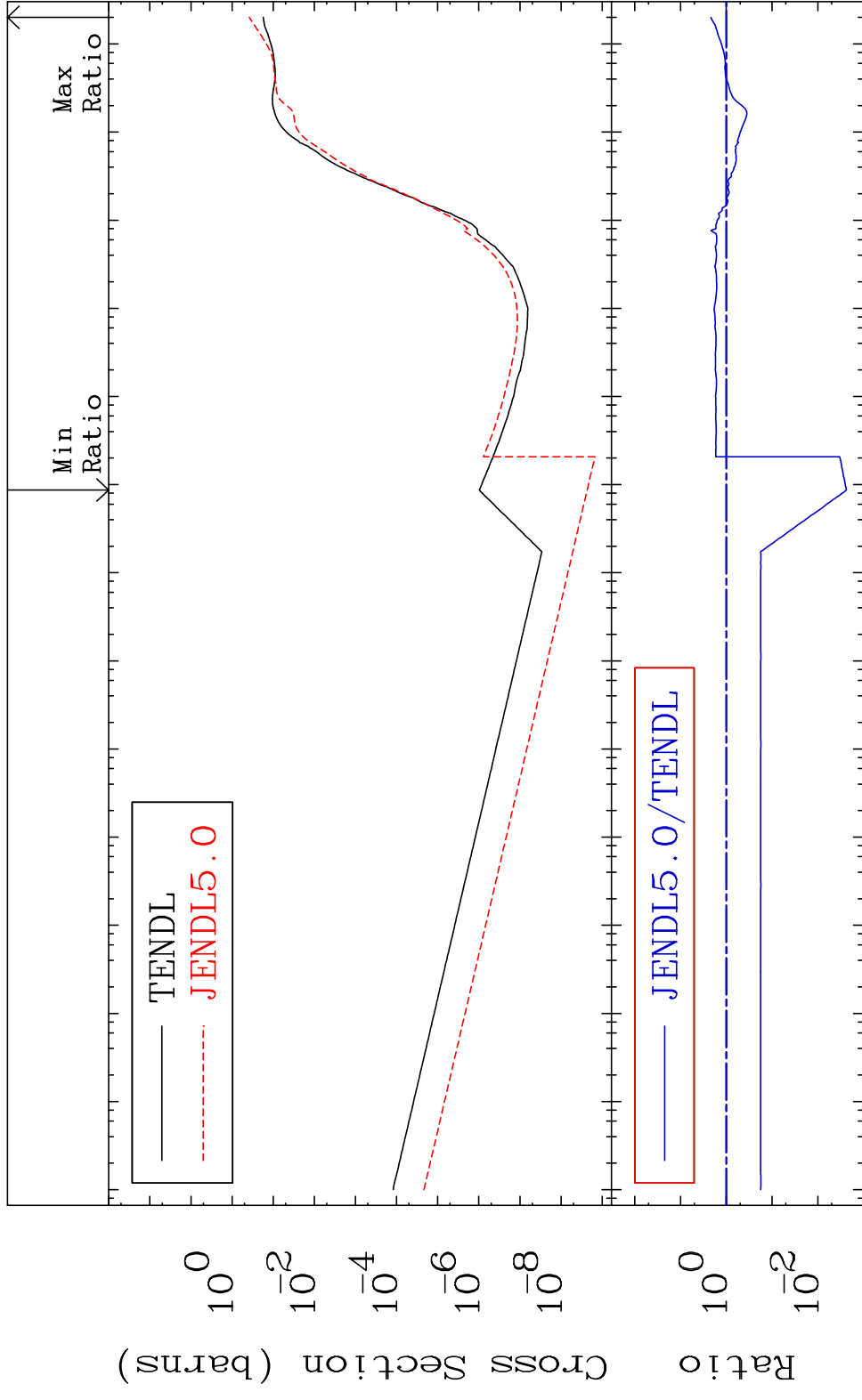
<sup>24</sup>Cr-51

MAT 2428

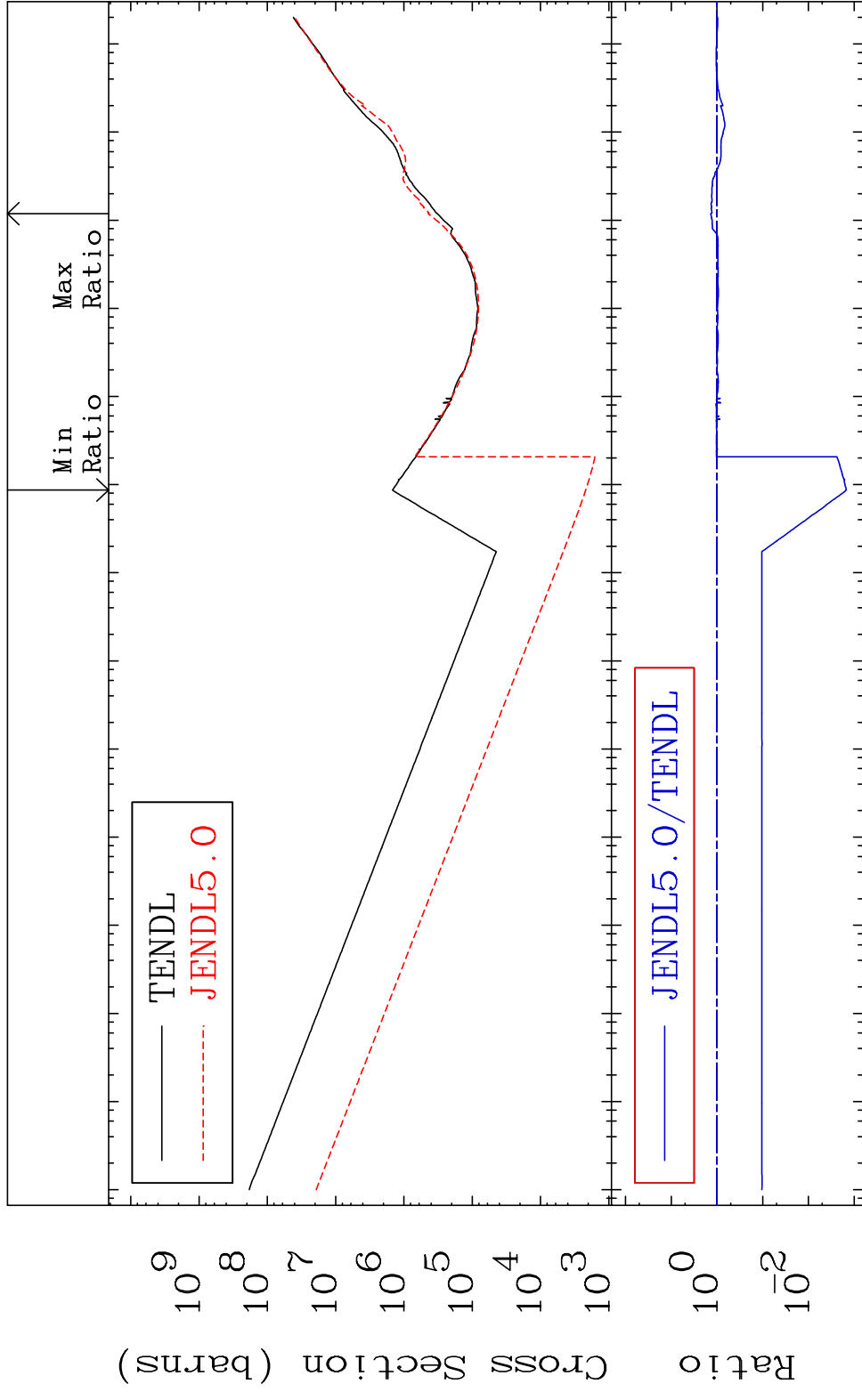
He-4 Production

24-Cr-51

Cross Section -99.76 To 119.1 %

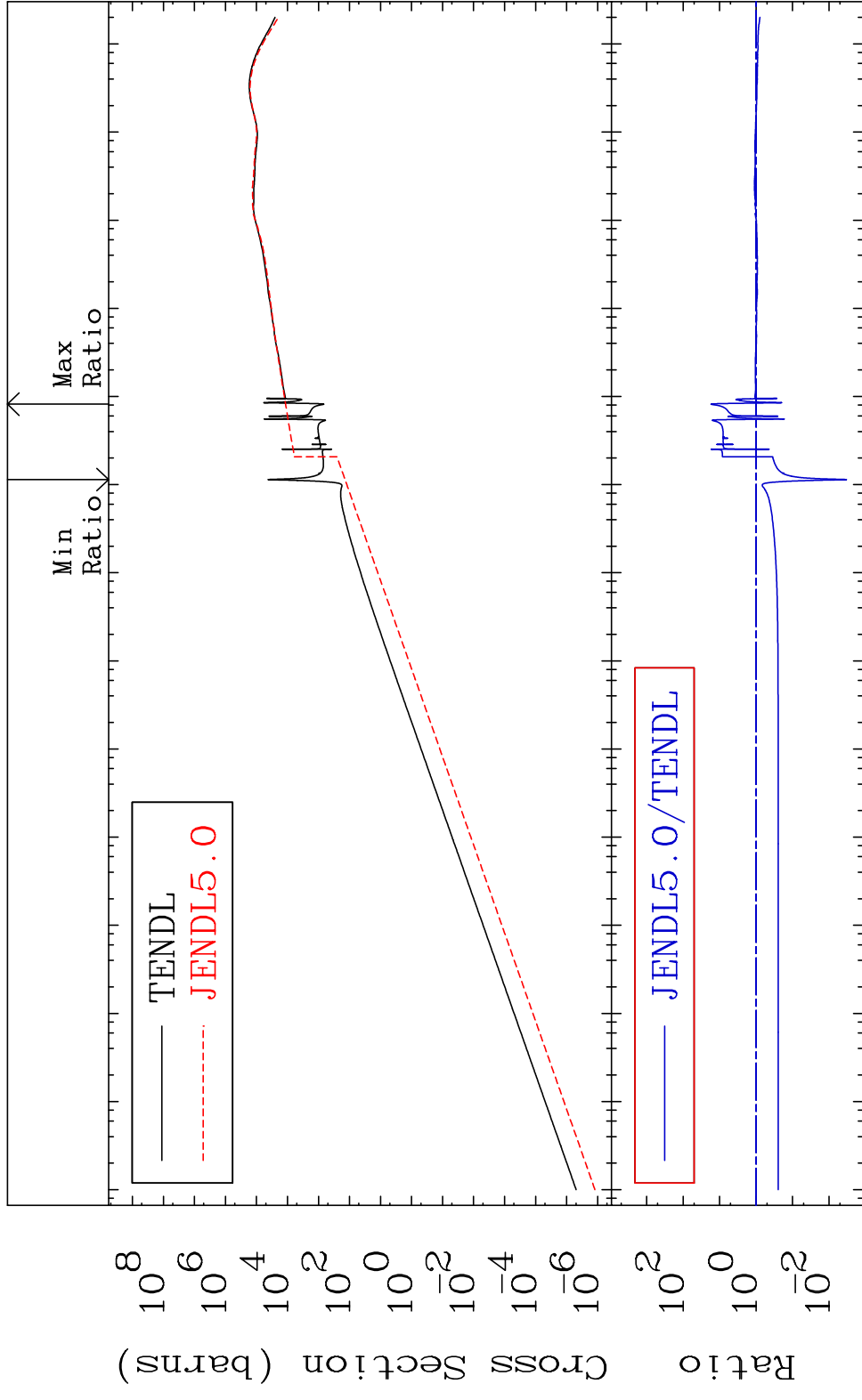


MAT 2428 Kerma total (eV-barns) 24-Cr-51  
 Cross Section -99.85 To 37.07 %



MAT 2428

Kerma elastic Cross Section -99.66 To 1650. %  
24-Cr-51



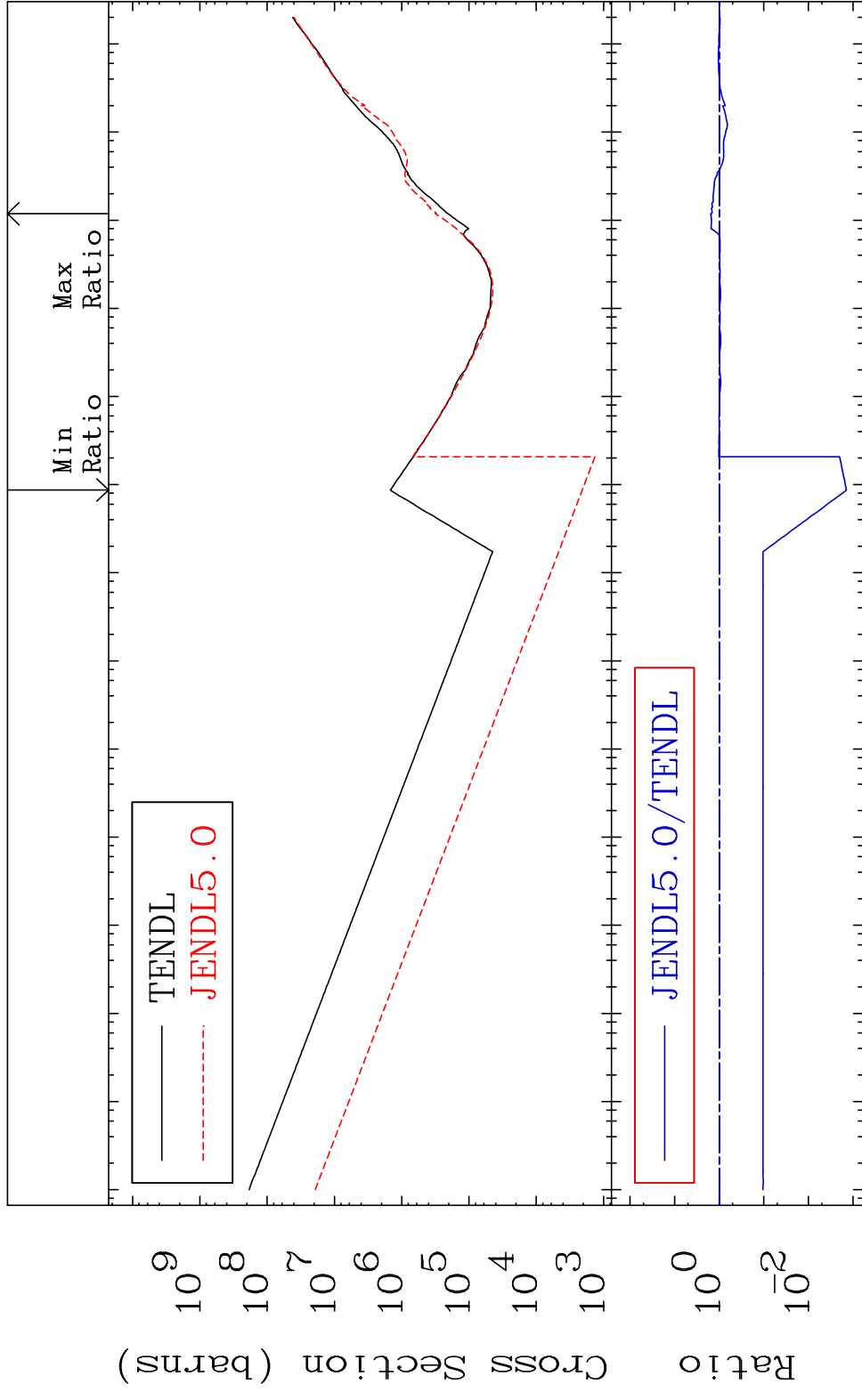
55

Incident Energy (eV)

24-Cr-51



MAT 2428 Kerma non-elastic (all but mt2) 24-Cr-51  
 Cross Section -99.86 To 55.17 %

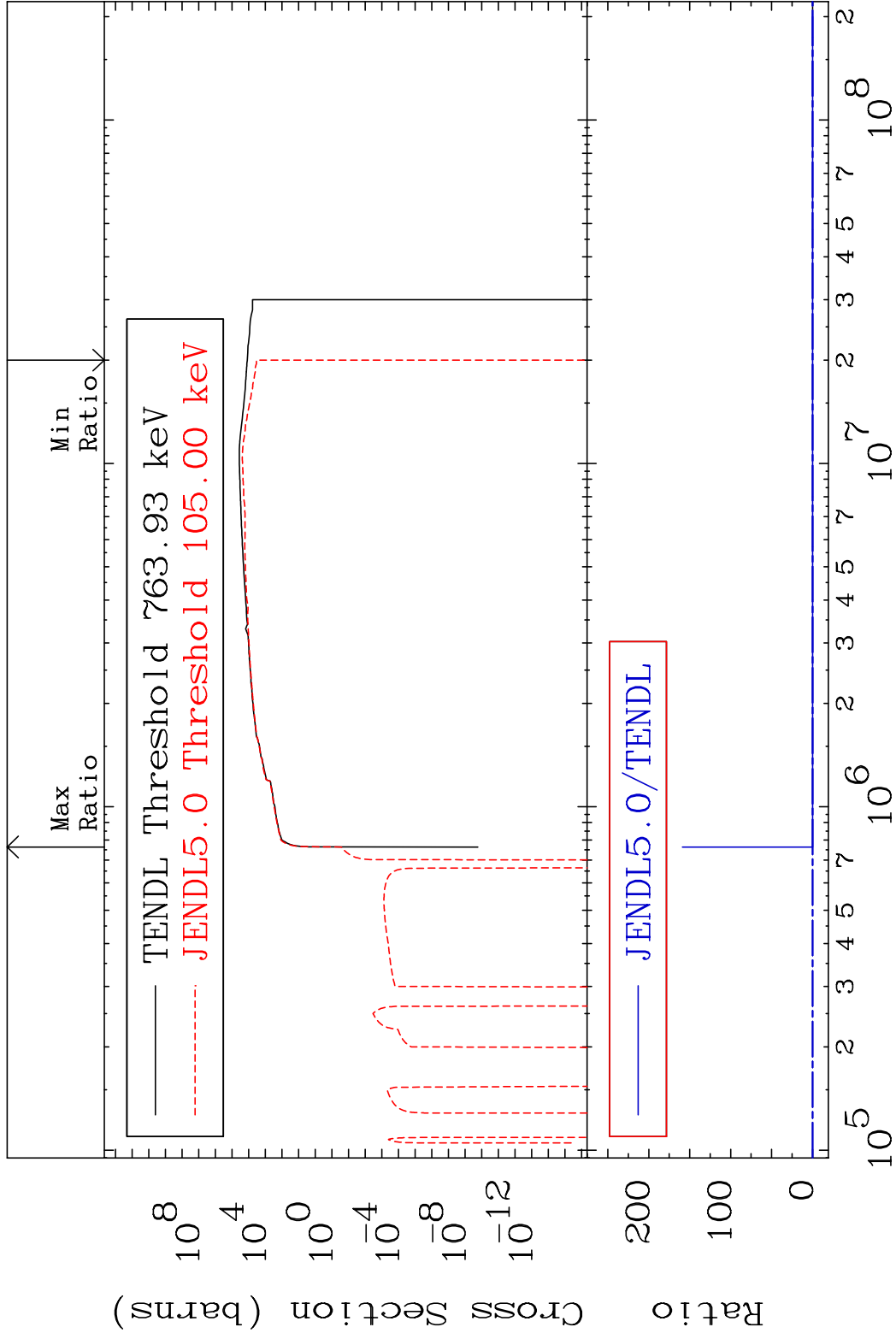


MAT 2428

Kerma inelastic (mt51-91)

24-Cr-51

Cross Section -100.0 To 9999. %

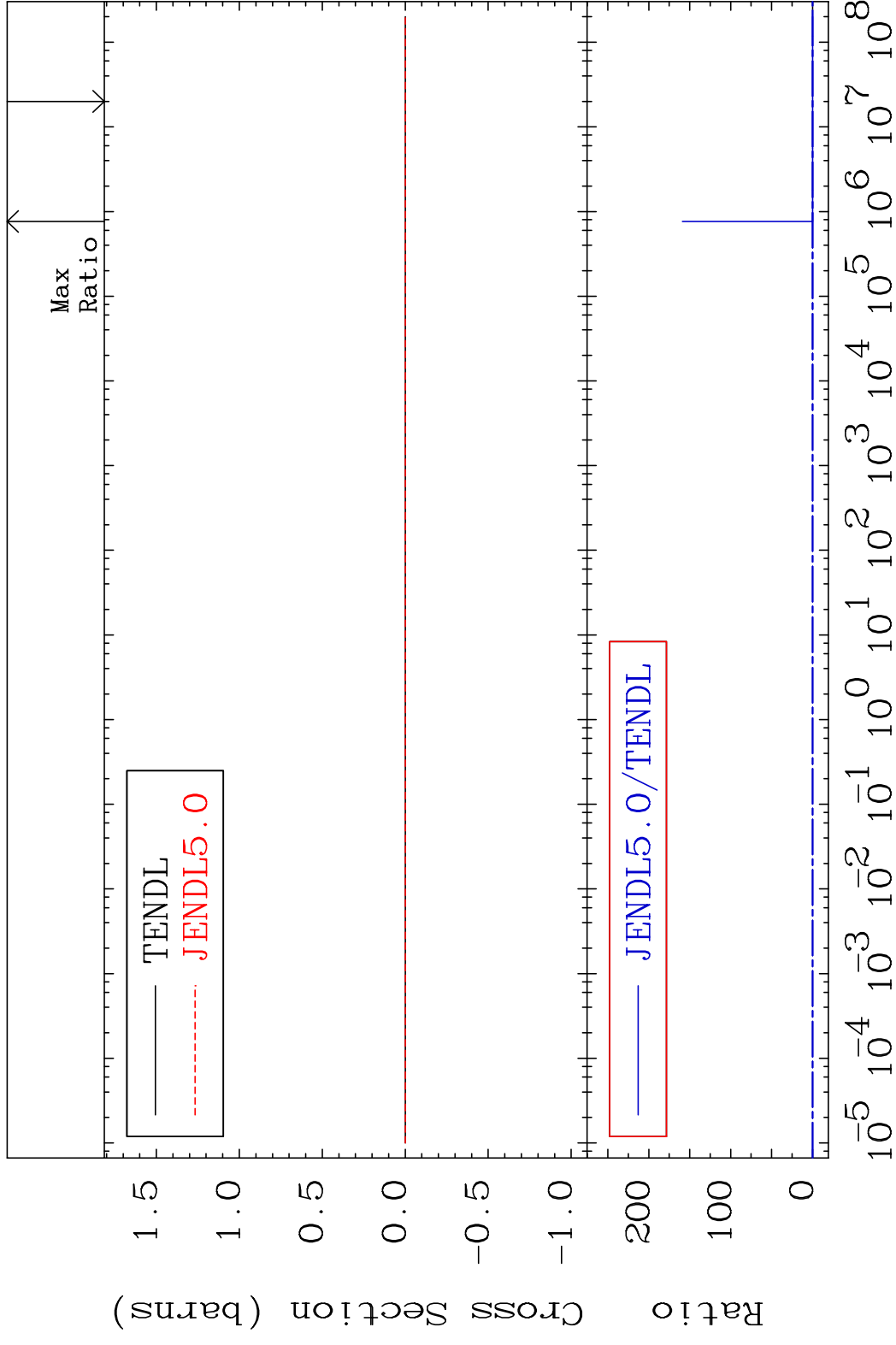


57

Incident Energy (eV)

24-Cr-51

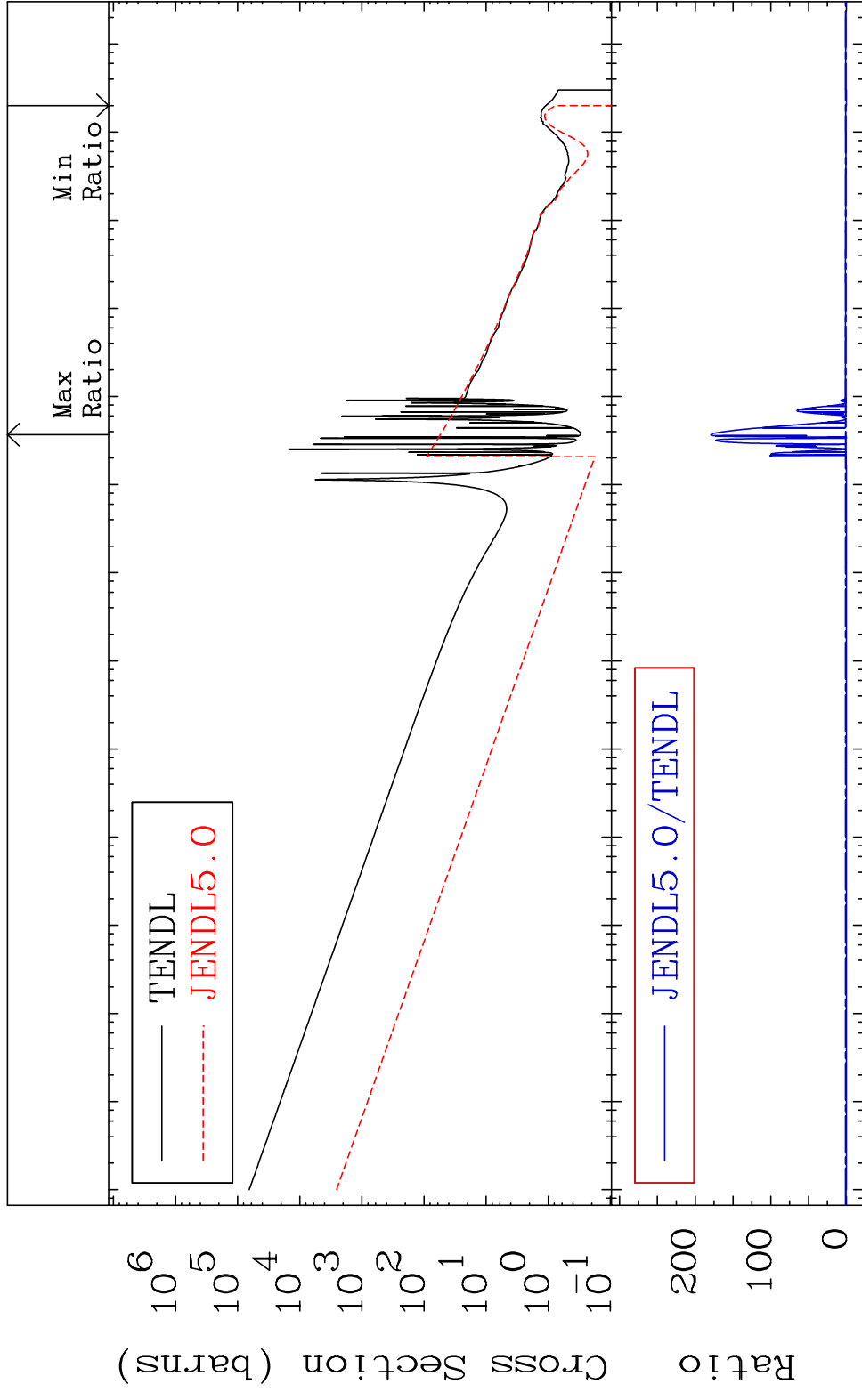
MAT 2428 Kerma fission (mt18 or mt19-20-21-38) 24-Cr-51  
 Cross Section -100.0 To 9999. %



MAT 2428

Kerma capture (mt102) 24-Cr-51

Cross Section -100.0 To 9999. %

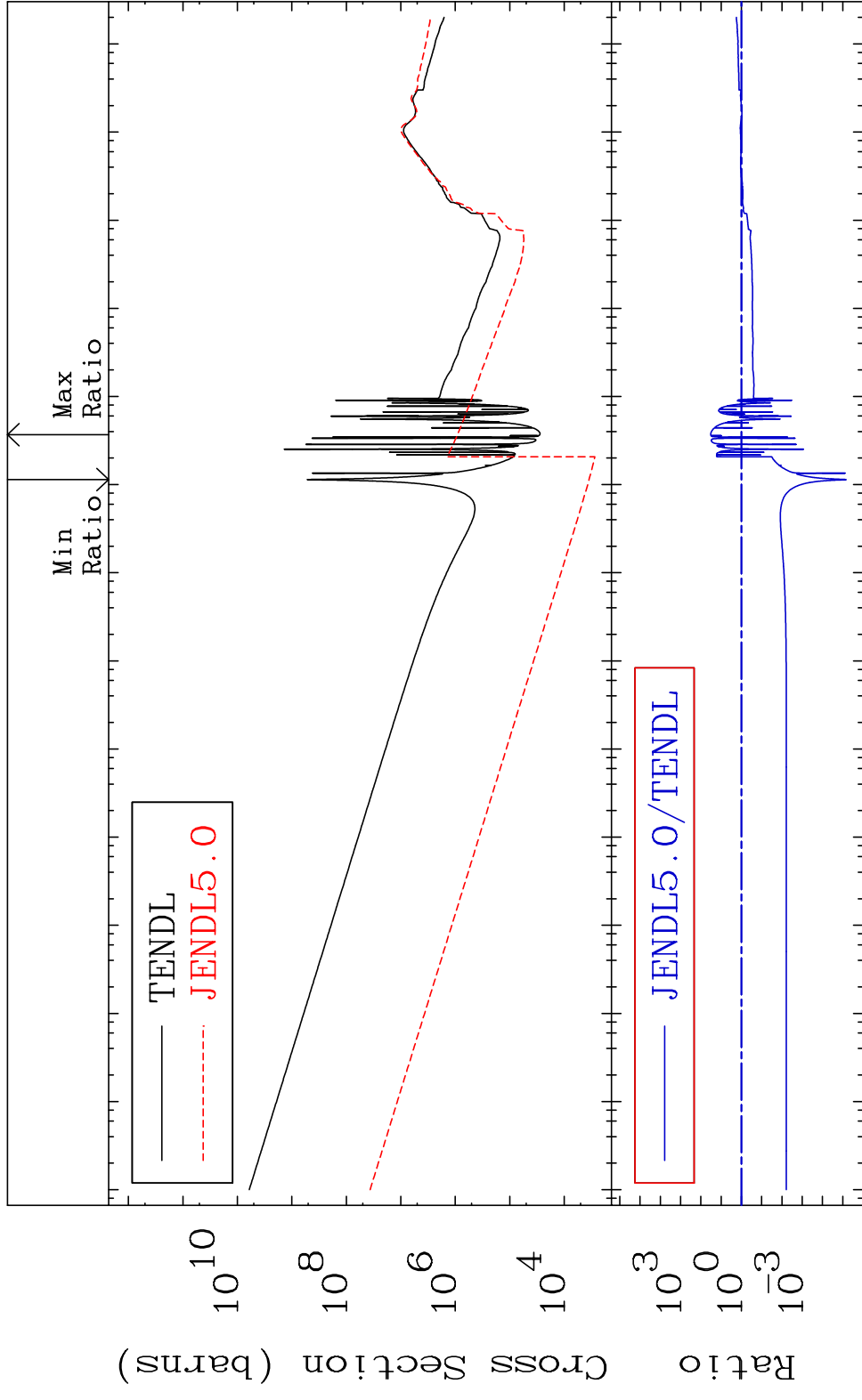


59

Incident Energy (eV)

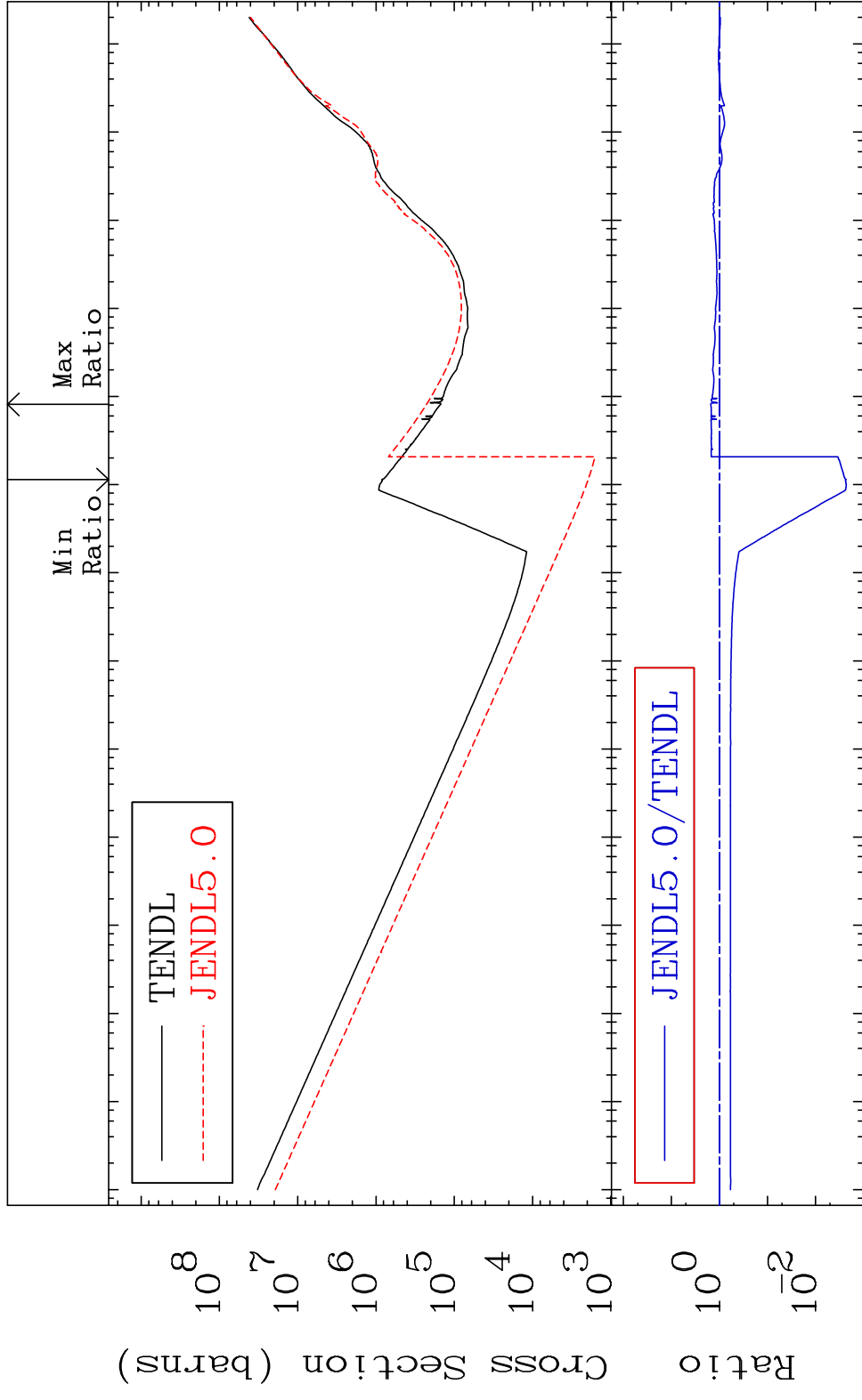
24-Cr-51

MAT 2428 Total photon (eV-barns) 24-Cr-51  
Cross Section -100.0 To 3158. %

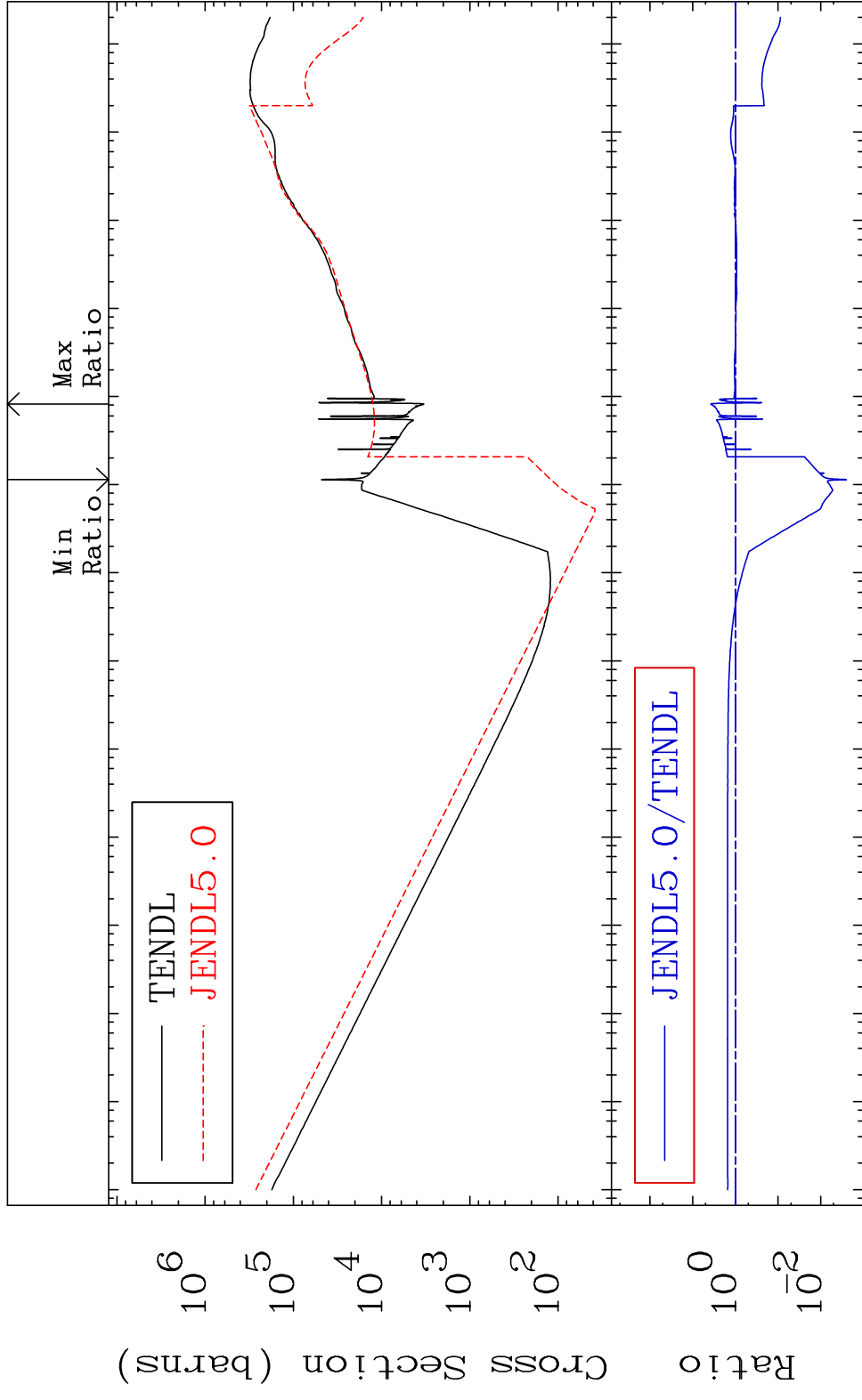


Ratio  
Cross Section (barns)  
10<sup>10</sup>  
10<sup>8</sup>  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>3</sup>  
10<sup>0</sup>  
10<sup>-3</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
60 Incident Energy (eV) 24-Cr-51

MAT 2428 Total kinematic kerma (high limit) 24-Cr-51  
 Cross Section -99.77 To 51.87 %



MAT 2428      Dpa total (eV-barns)      24-Cr-51  
 Cross Section      -99.75 To 277.7 %

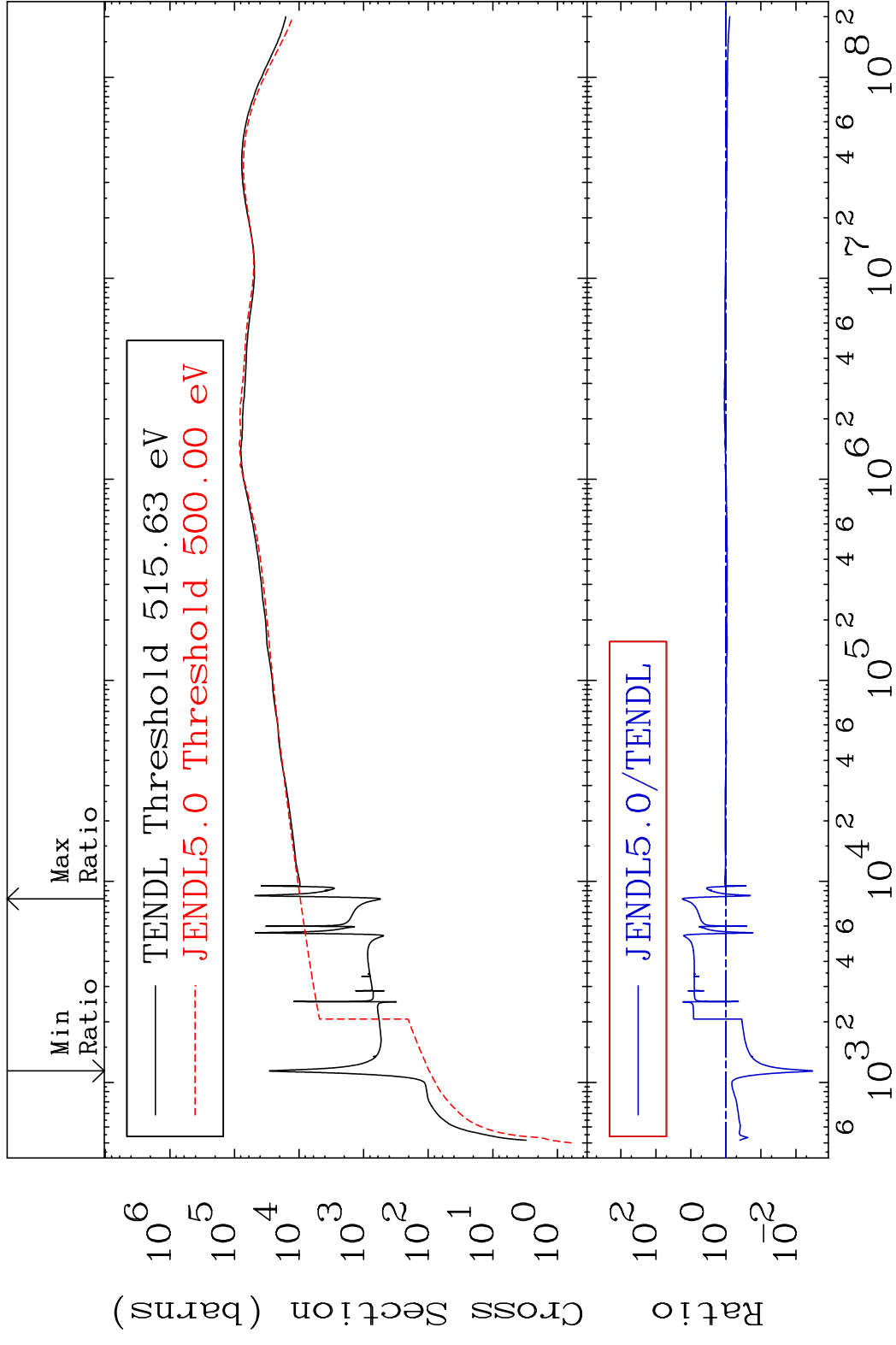


MAT 2428

Dpa elastic (mt2)

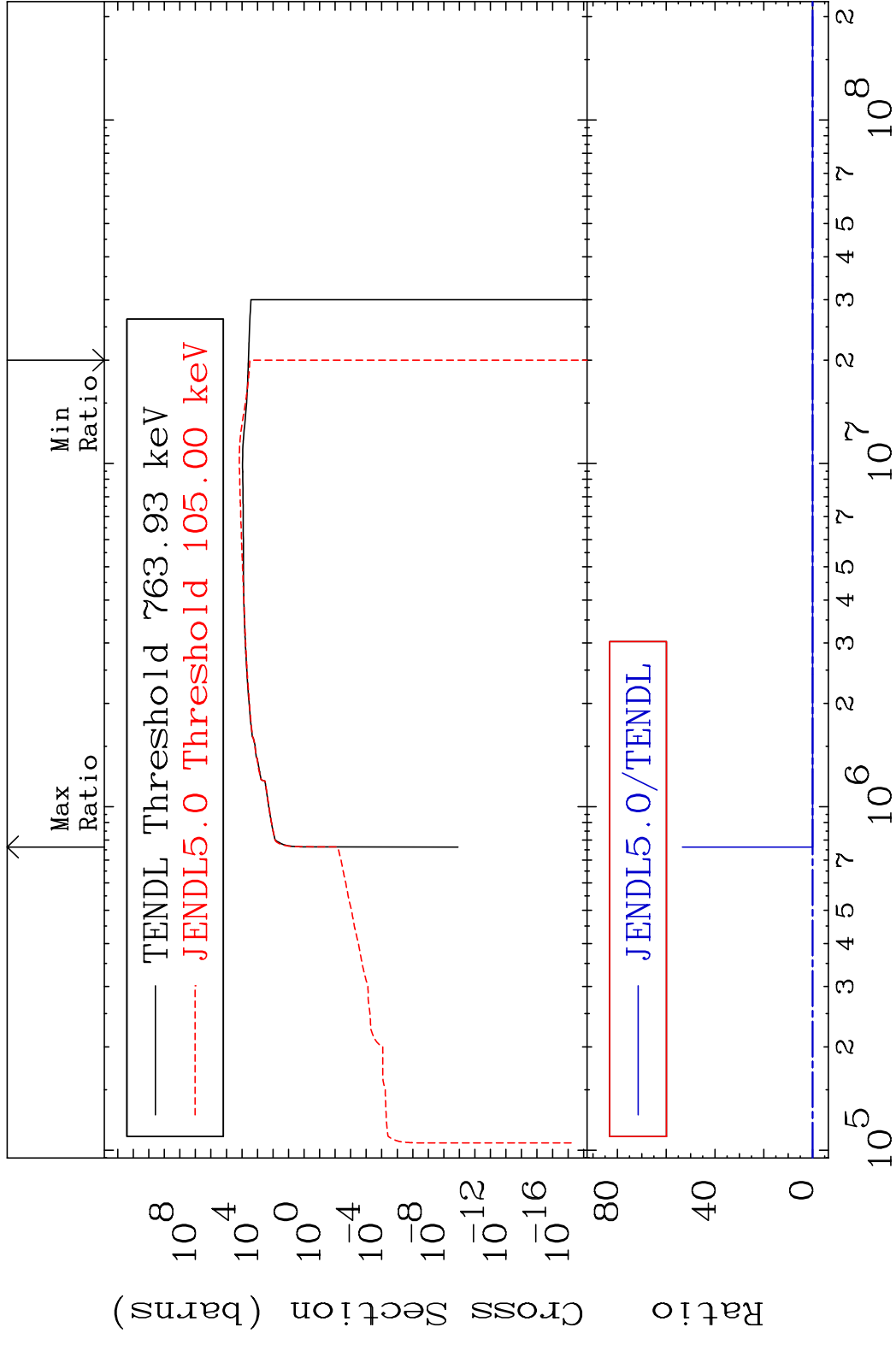
24-Cr-51

Cross Section -99.66 To 1649. %



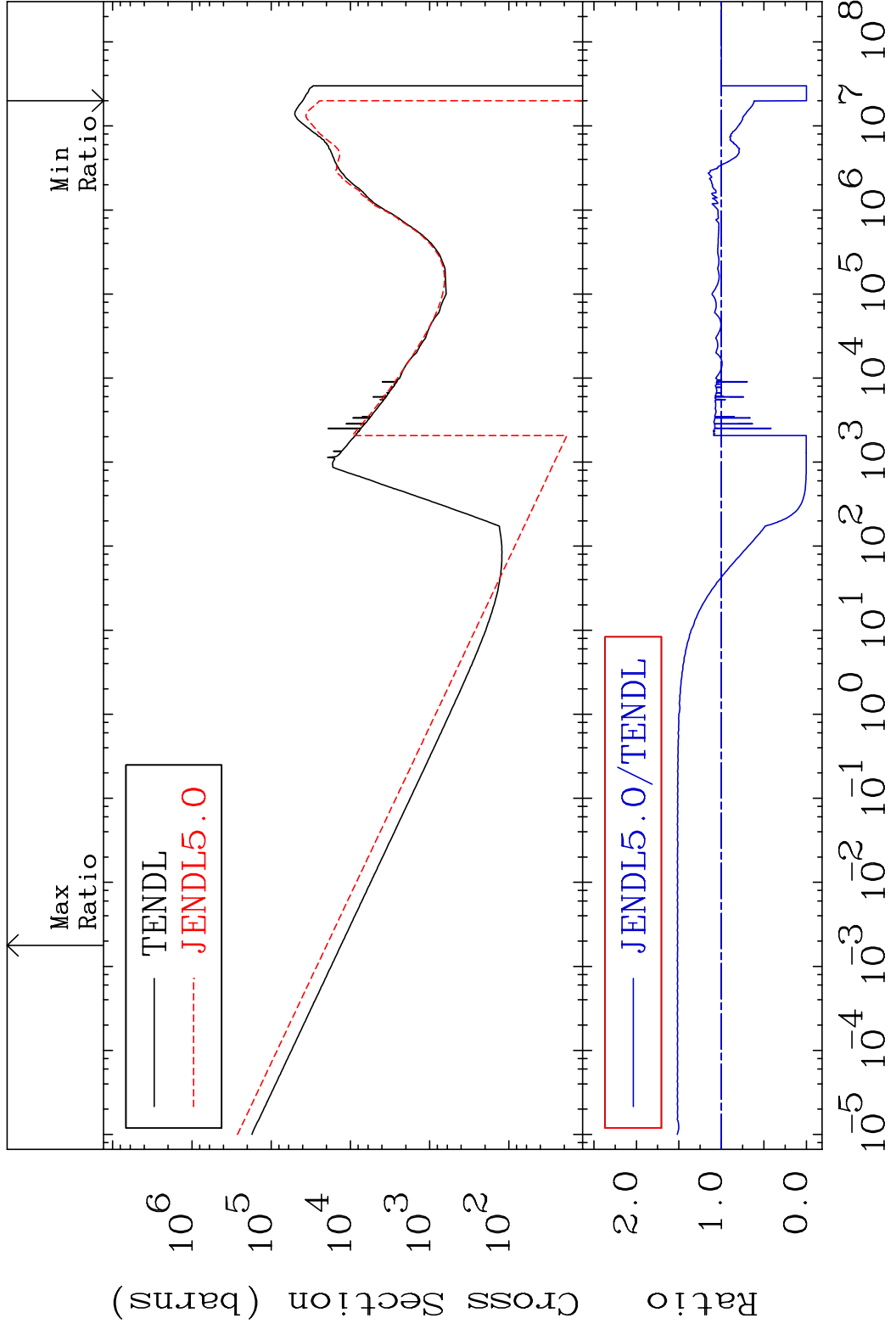


MAT 2428 Dpa inelastic (mt51-91) 24-Cr-51  
 Cross Section -100.0 To 9999. %

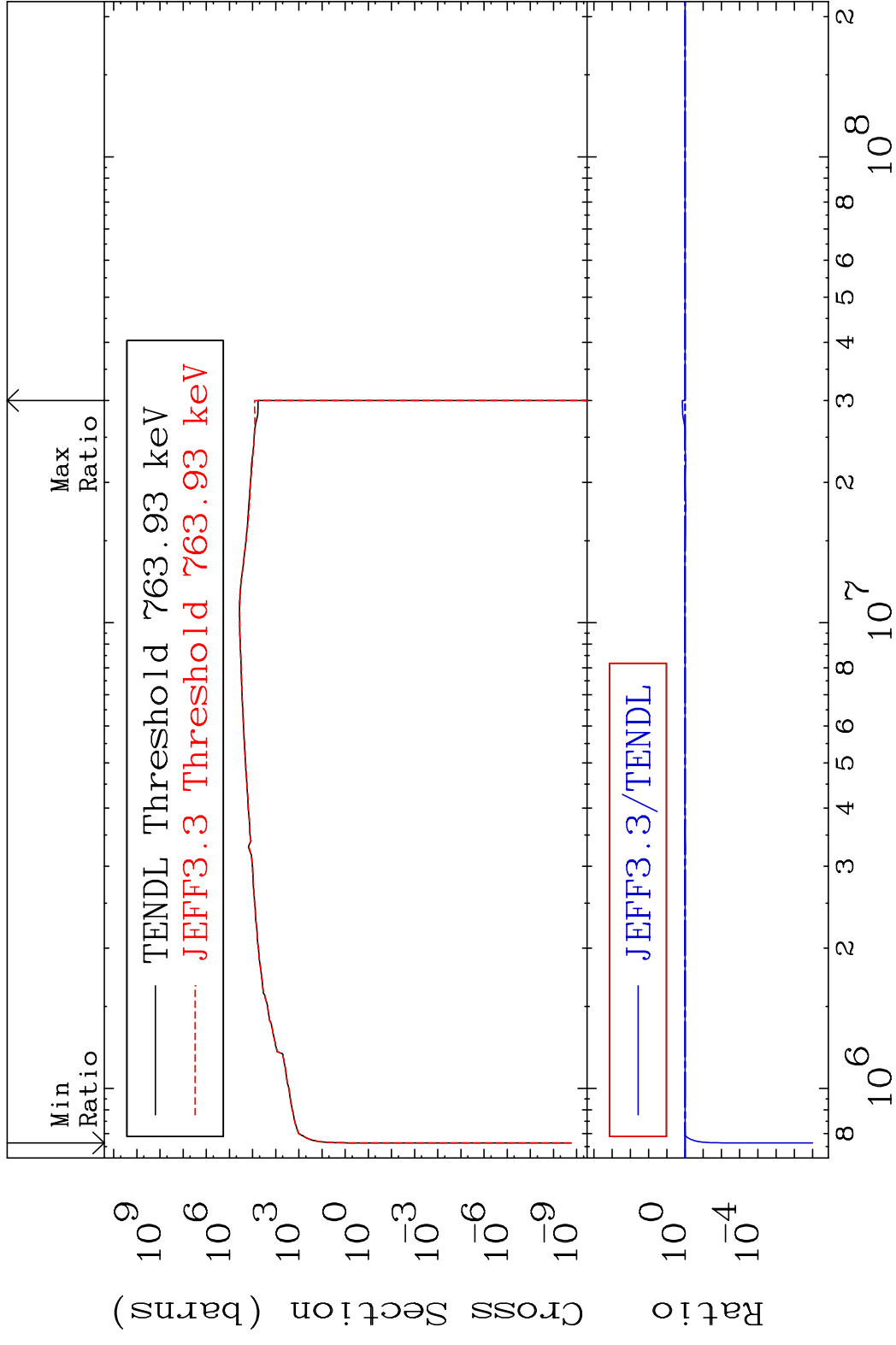


64 Incident Energy (eV) 24-Cr-51

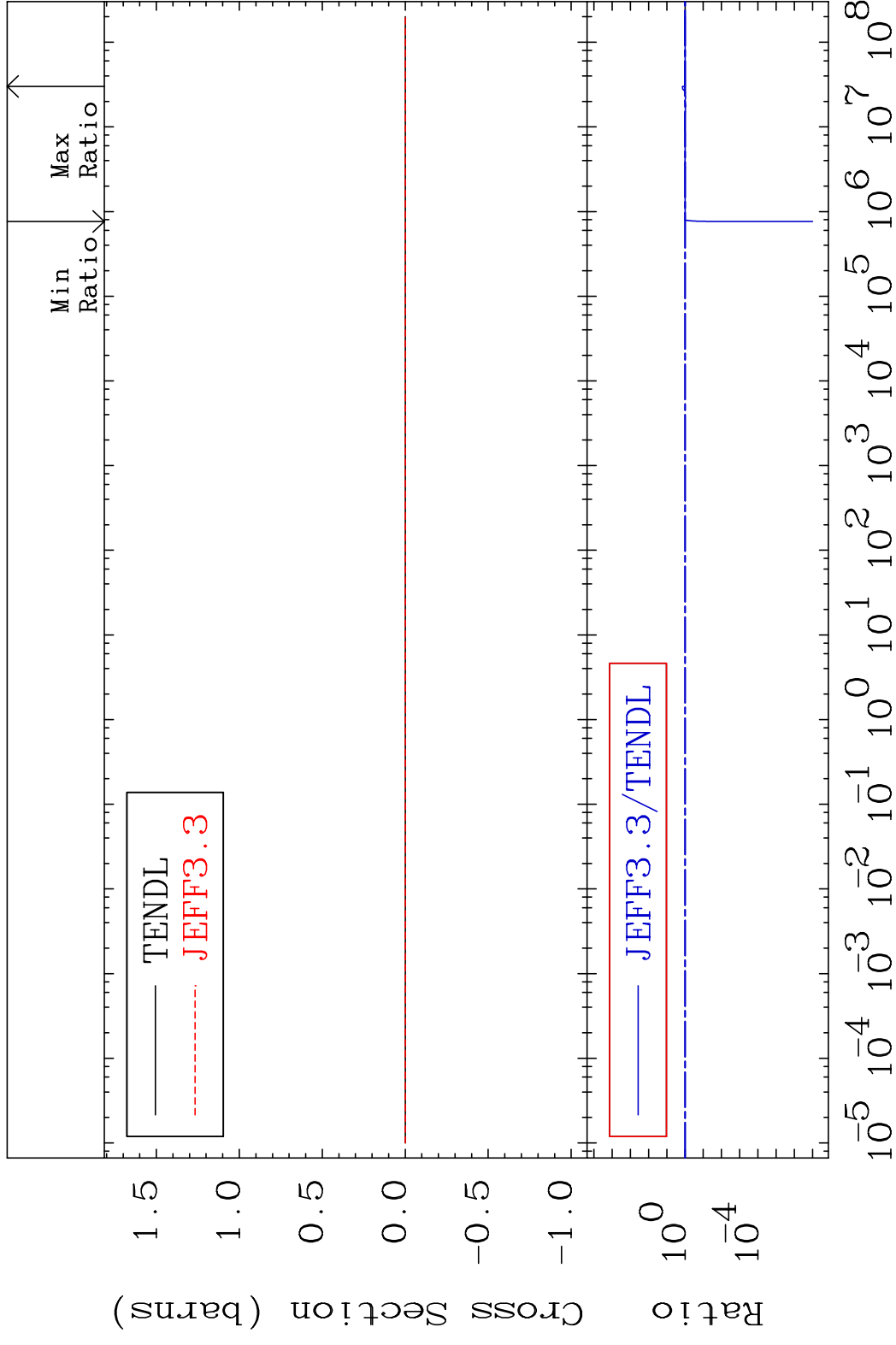
MAT 2428 Dpa disappearance (mt102 -120) 24-Cr-51  
 Cross Section -100.0 To 52.01 %



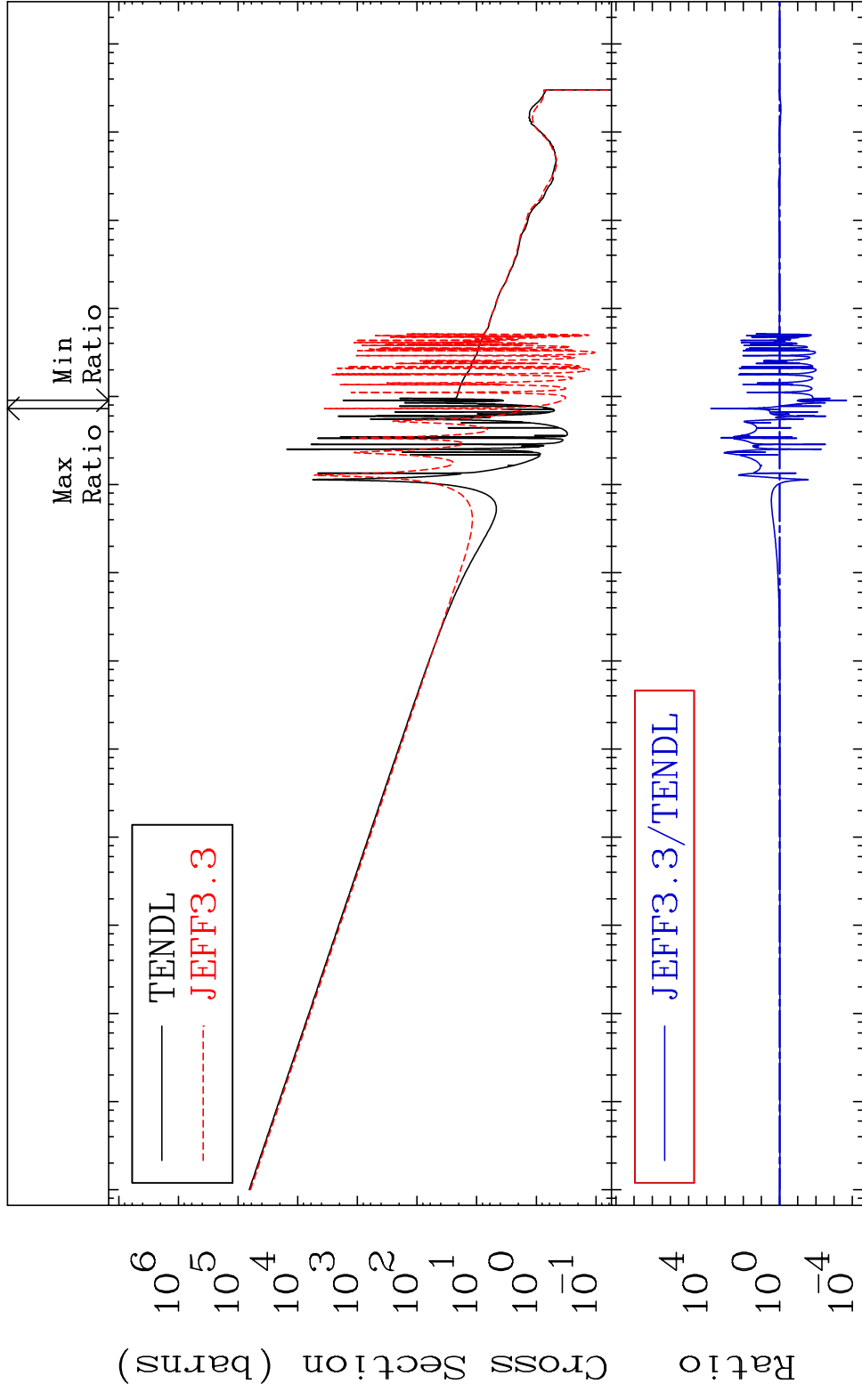
MAT 2428 Kerma inelastic (mt51-91) 24-Cr-51  
 Cross Section -100.0 To 40.09 %



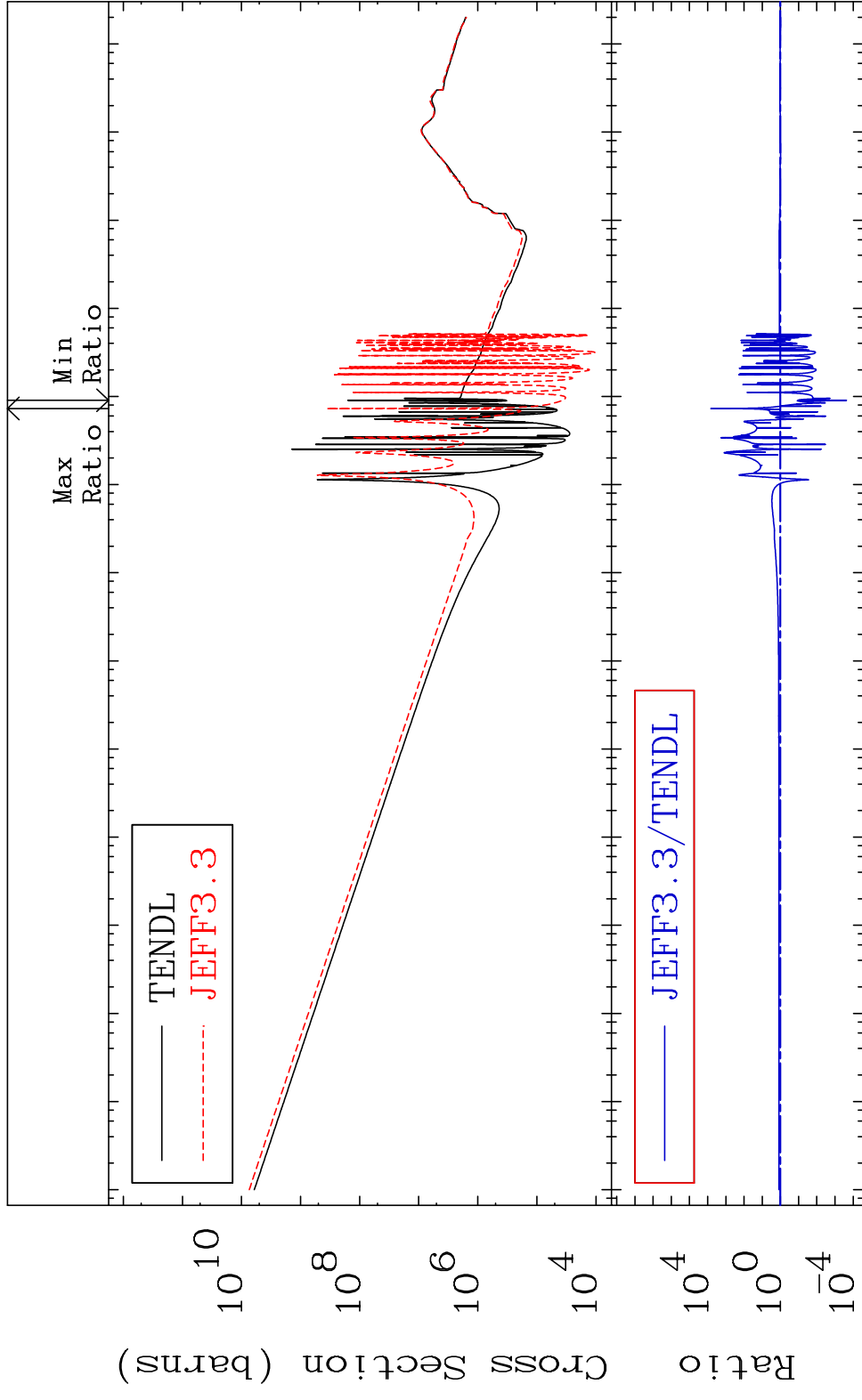
MAT 2428 Kerma fission (mt18 or mt19-20-21-38) 24-Cr-51  
 Cross Section -100.0 To 40.09 %



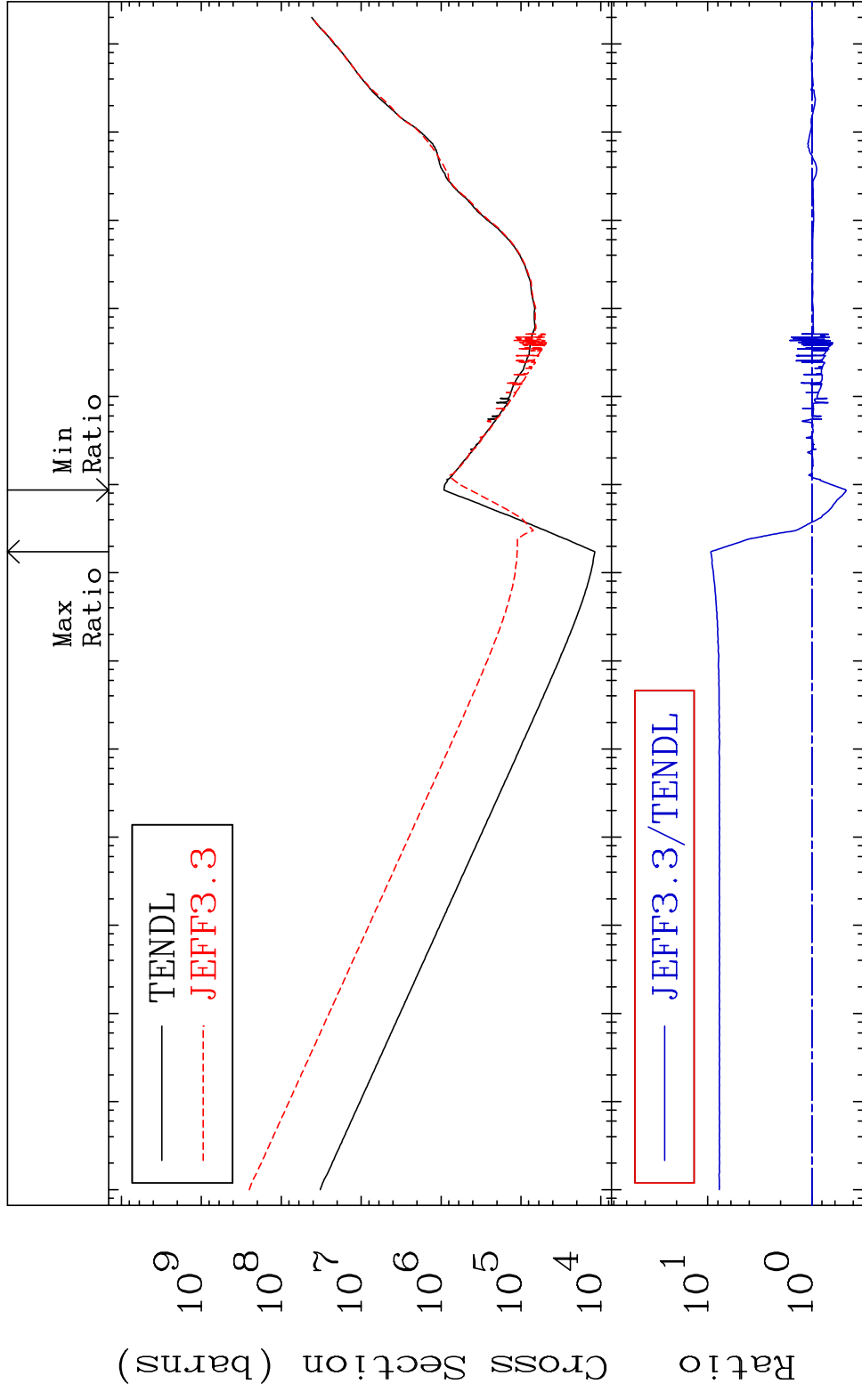
MAT 2428 Kerma capture (mt102) 24-Cr-51  
 Cross Section -99.98 To 9999. %



MAT 2428 Total photon (eV-barns) 24-Cr-51  
 Cross Section -99.98 To 9999. %



MAT 2428 Total kinematic kerma (high limit) 24-Cr-51  
 Cross Section -53.31 To 837.1 %



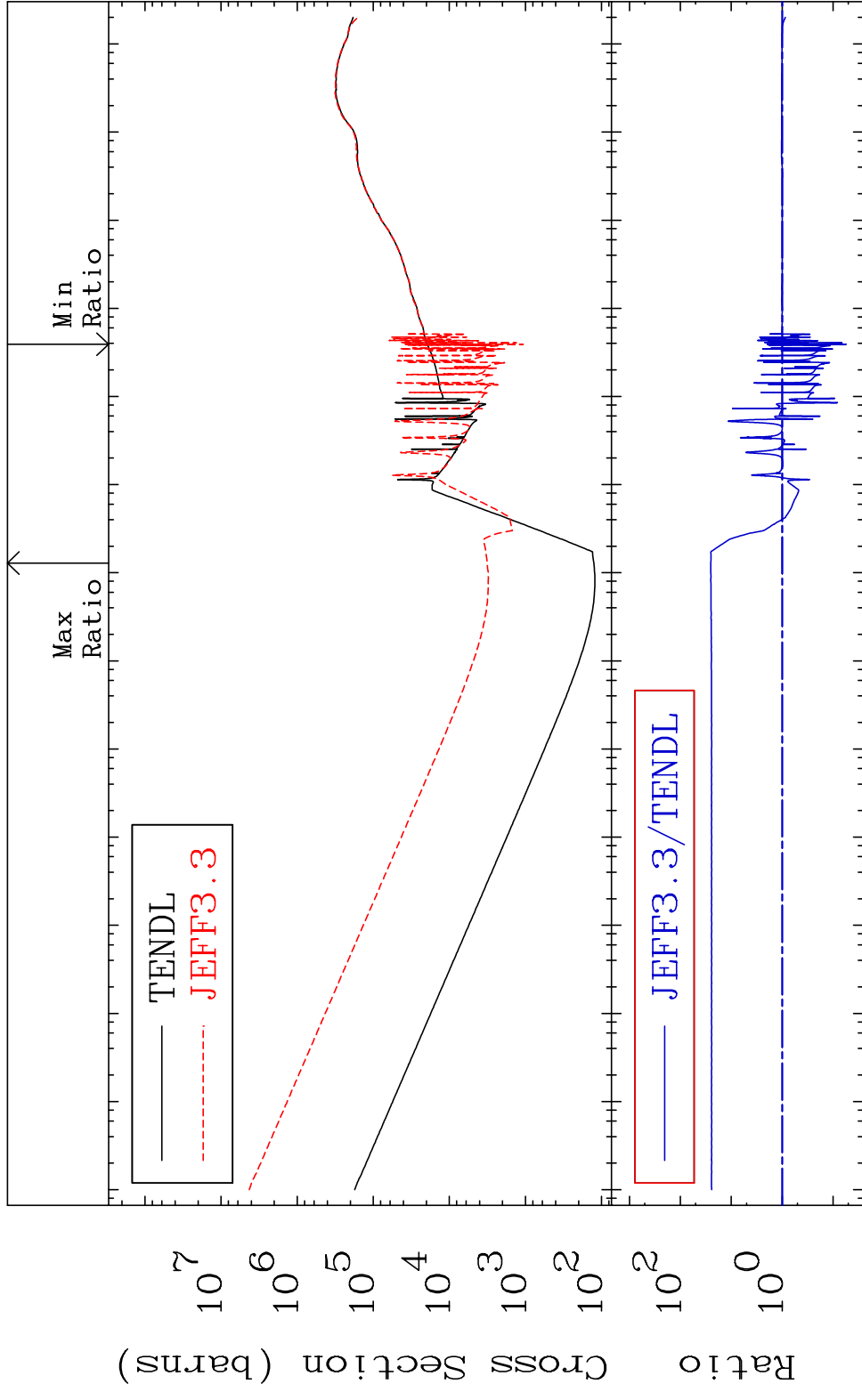
70 Incident Energy (eV) 24-Cr-51

MAT 2428

Dpa total (eV-barns)

24-Cr-51

Cross Section -94.52 To 2431. %



71

Incident Energy (eV)

24-Cr-51

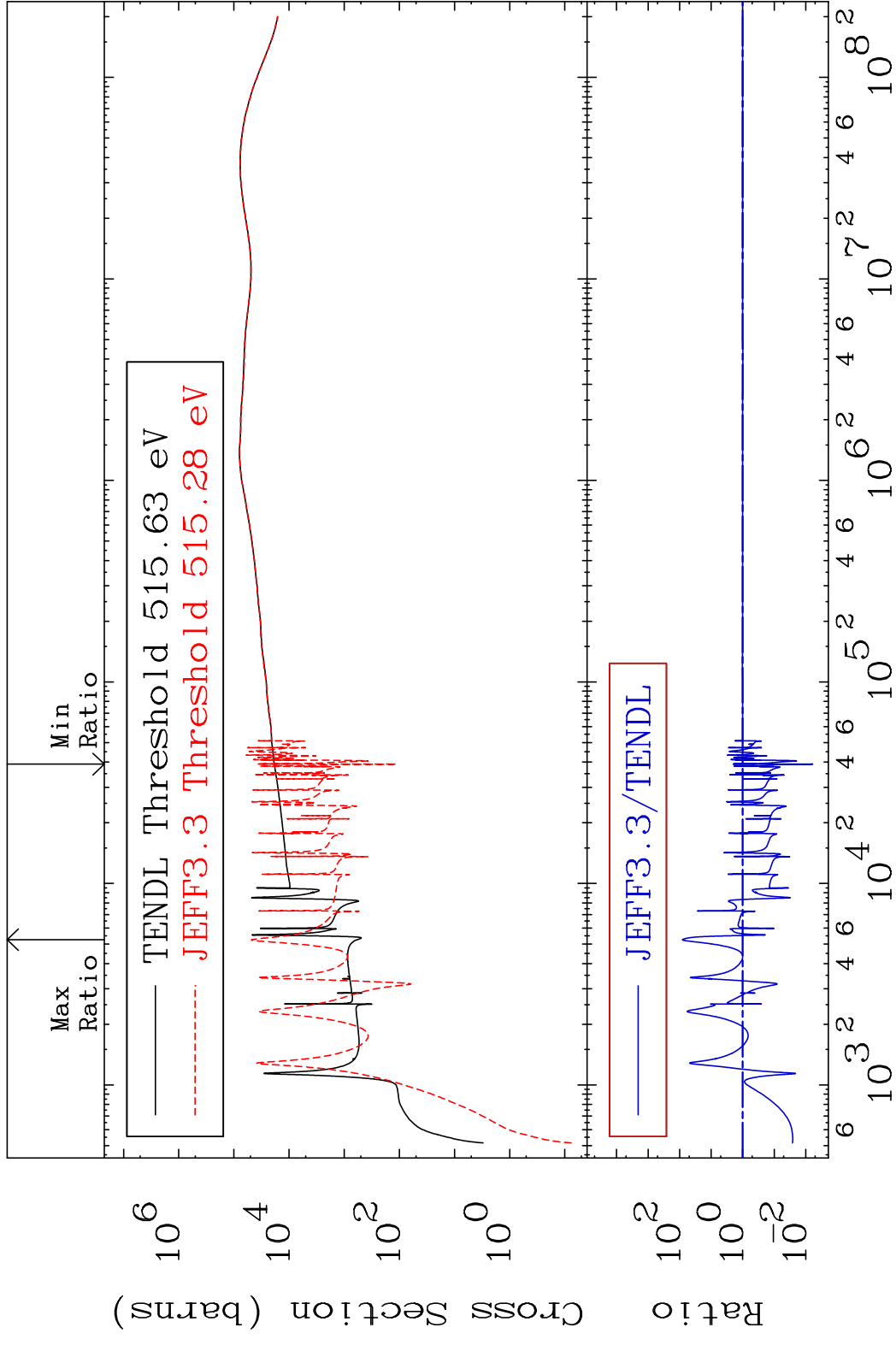


MAT 2428

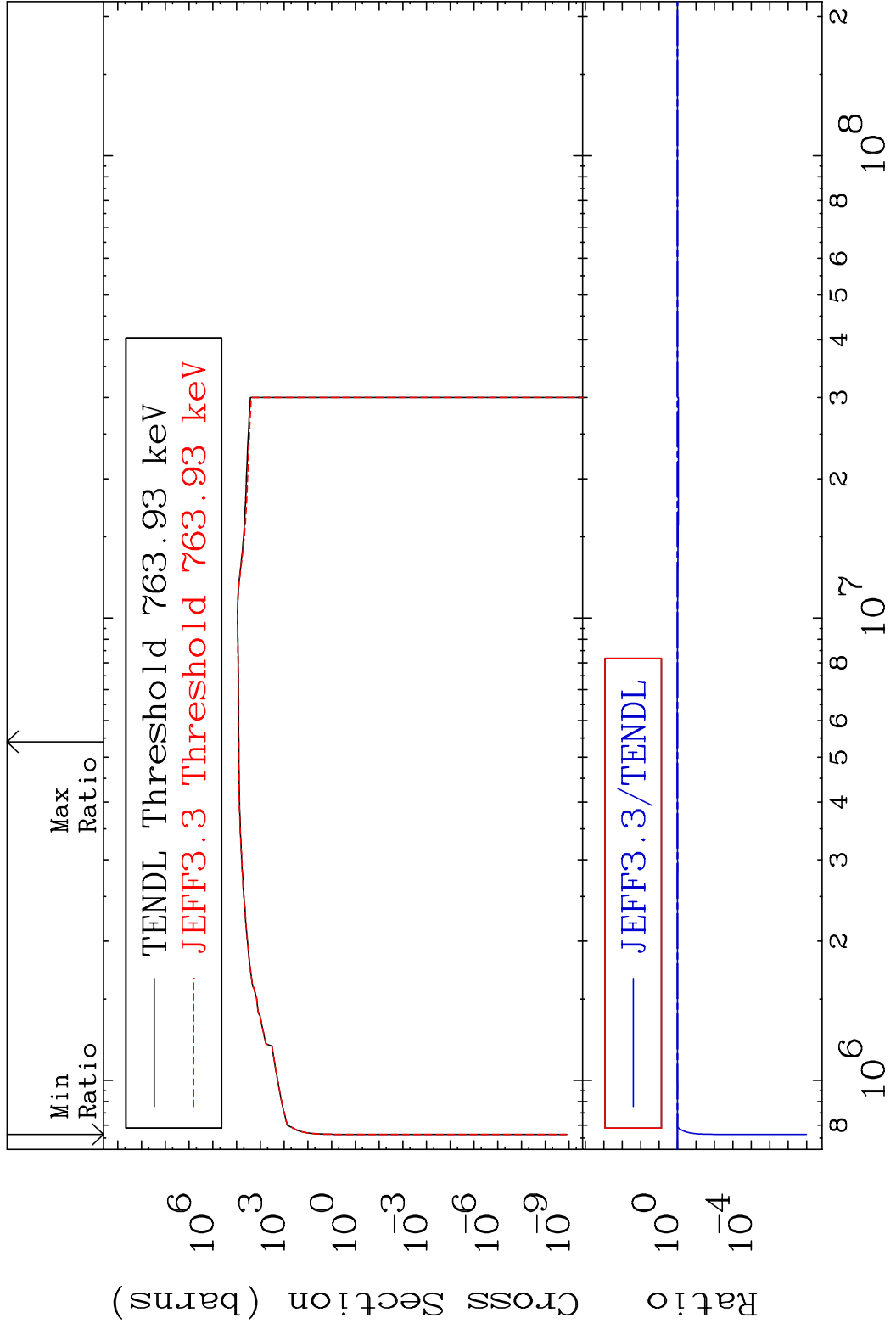
Dpa elastic (mt2)

24-Cr-51

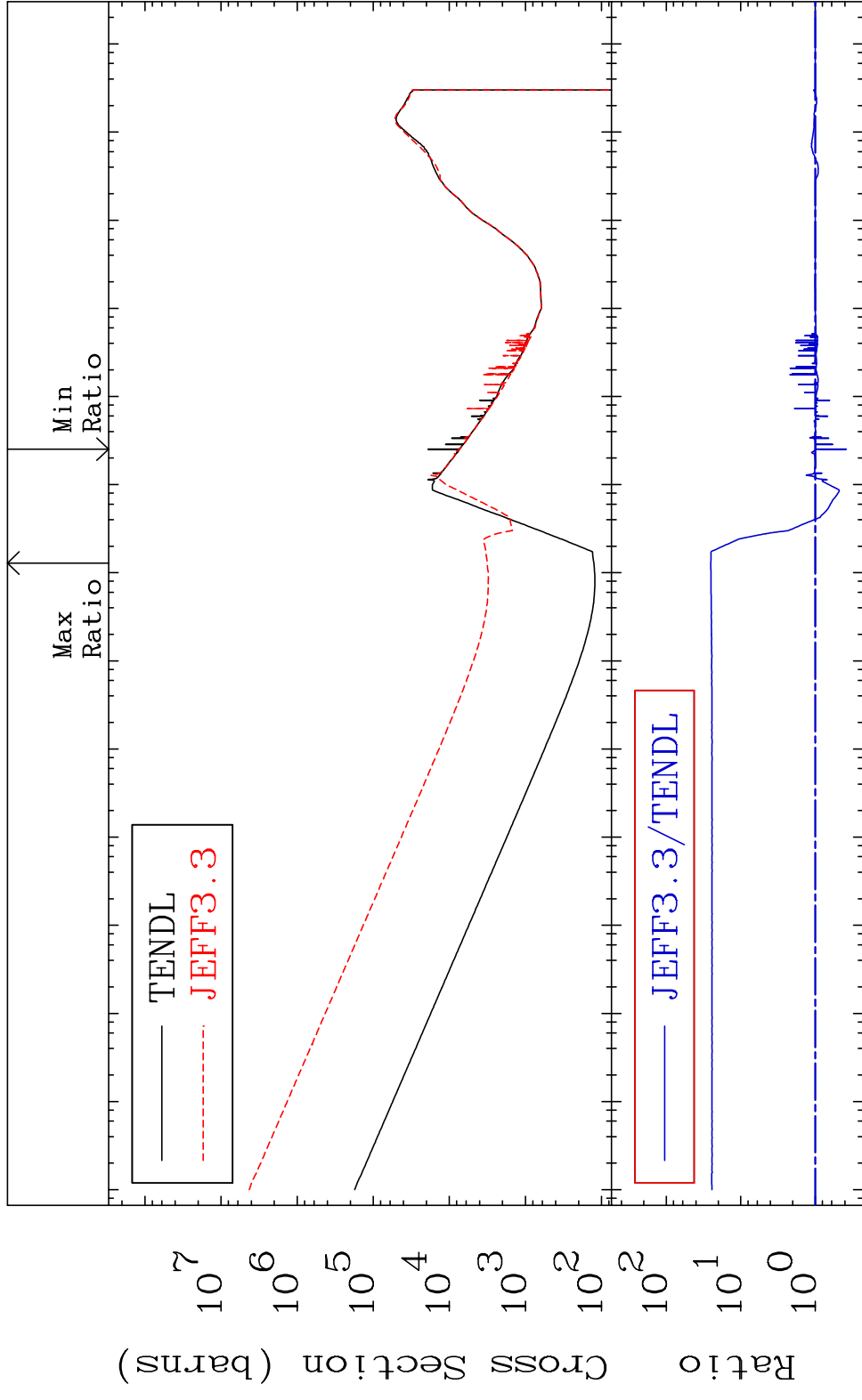
Cross Section -99.39 To 8099. %



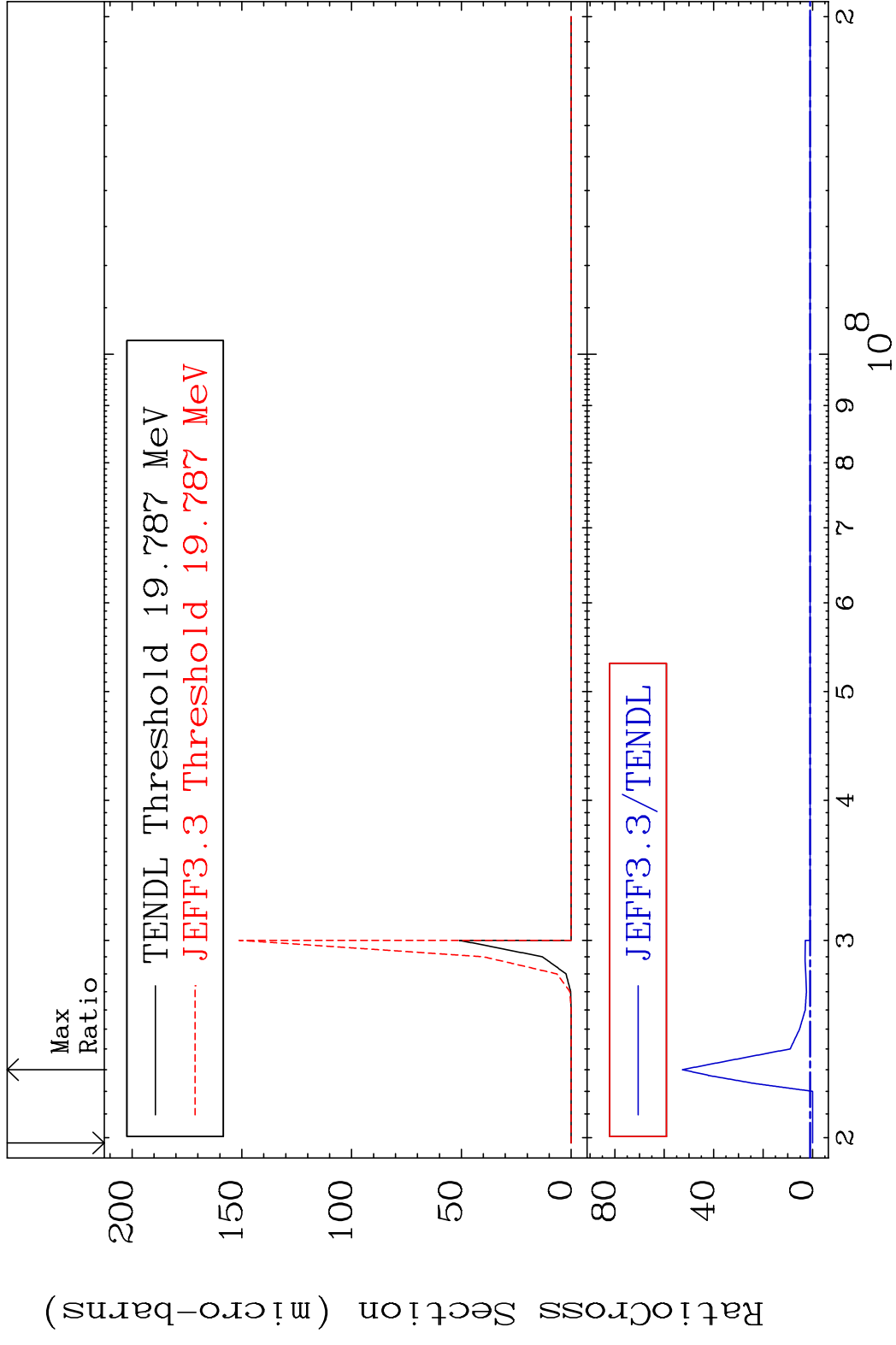
MAT 2428      Dpa inelastic (mt51-91)      <sup>24</sup>Cr-51  
 Cross Section      -100.0 To 4.583 %

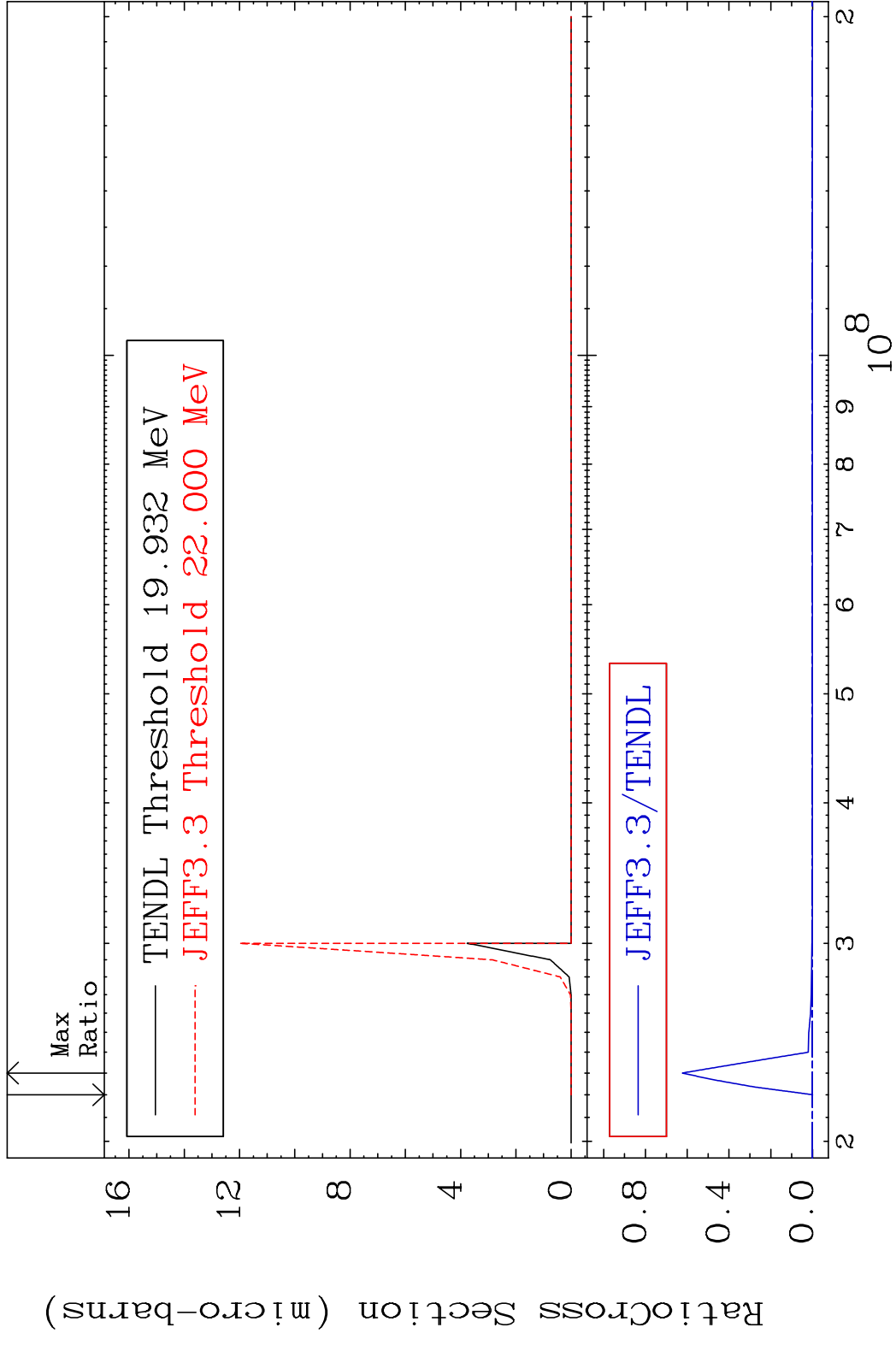


MAT 2428 Dpa disappearance (mt102 -120) 24-Cr-51  
 Cross Section -61.80 To 2431. %

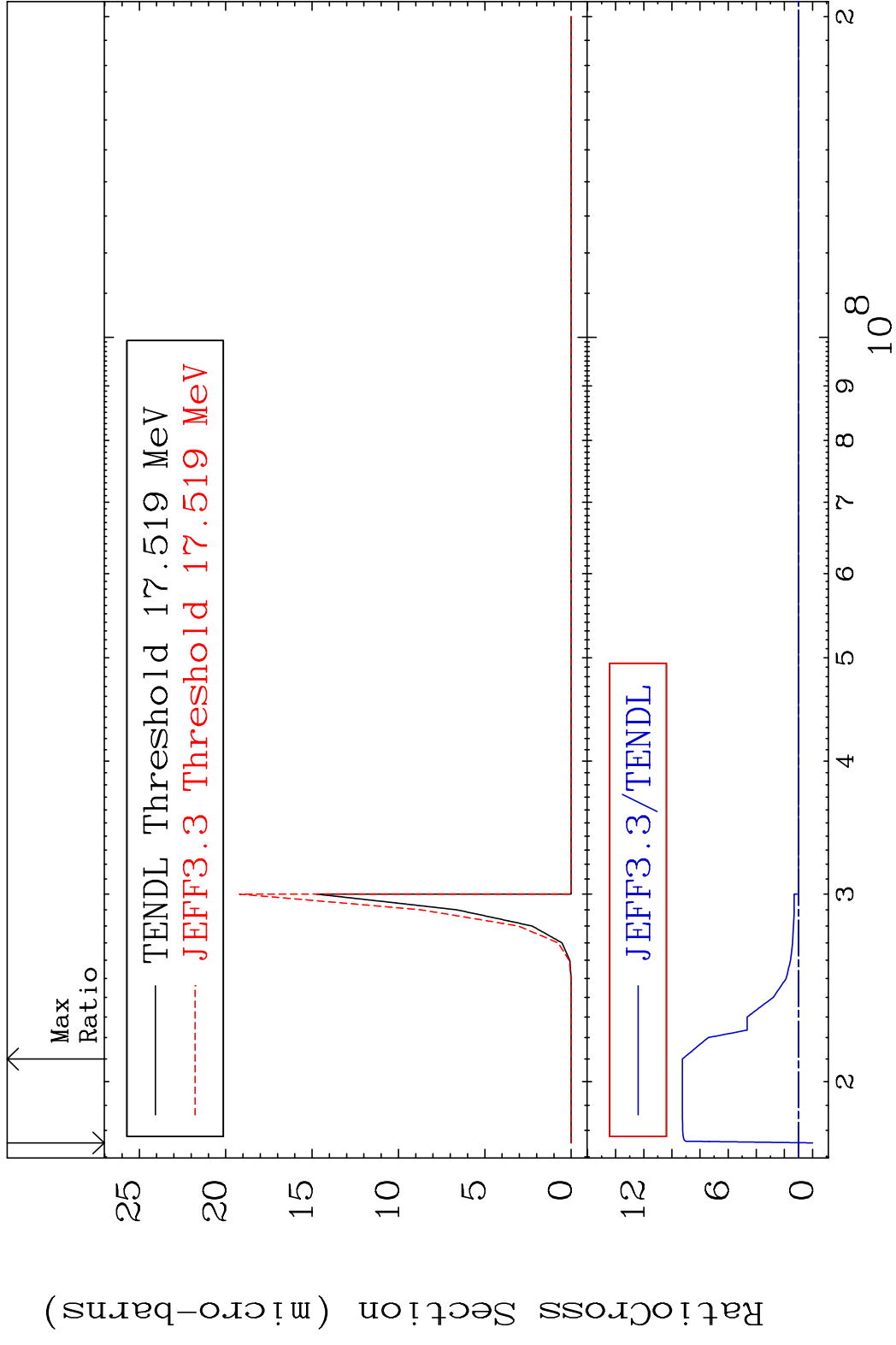


MAT 2428 (n, n') p  $\alpha$ :21-Sc-46g 24-Cr-51  
 Radionuclide Production Cross Section 1800 d to 5167. %





MAT 2428 (n, d)  $\alpha$ :21-Sc-46g 24-Cr-51  
 Radionuclide Production Cross Section 1800 dth 825.7 %



MAT 2428 (n, d)  $\alpha$ :21-Sc-46m2 24-Cr-51  
 Radionuclide Production Cross Section 186331 d10 356.4 %

