

Program Complot  
(Version 2021-1)

by

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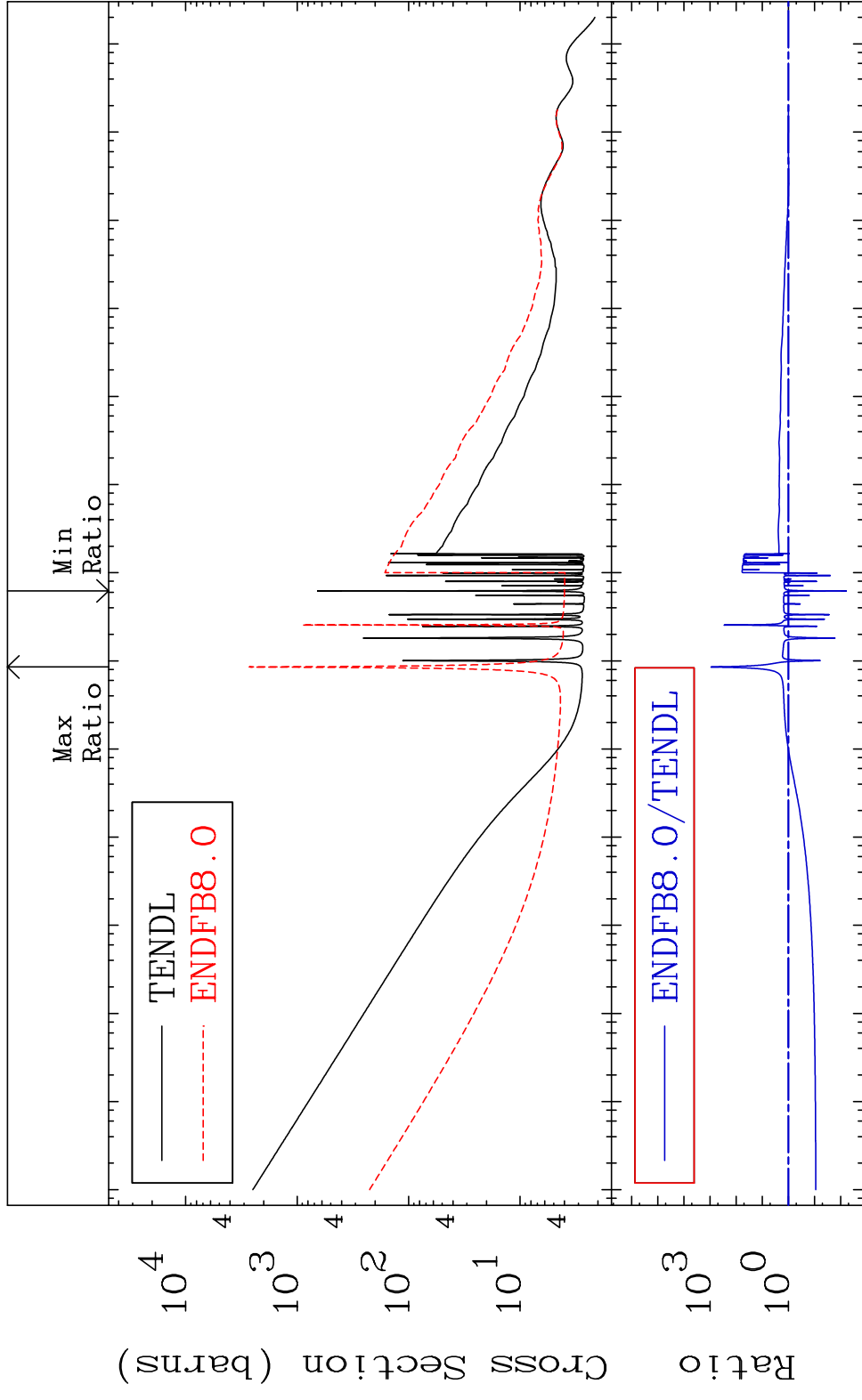
Press Mouse Button to Start

MAT 5628

56-Ba-131

Total

Cross Section -99.39 To 9999. %



1

Incident Energy (eV)

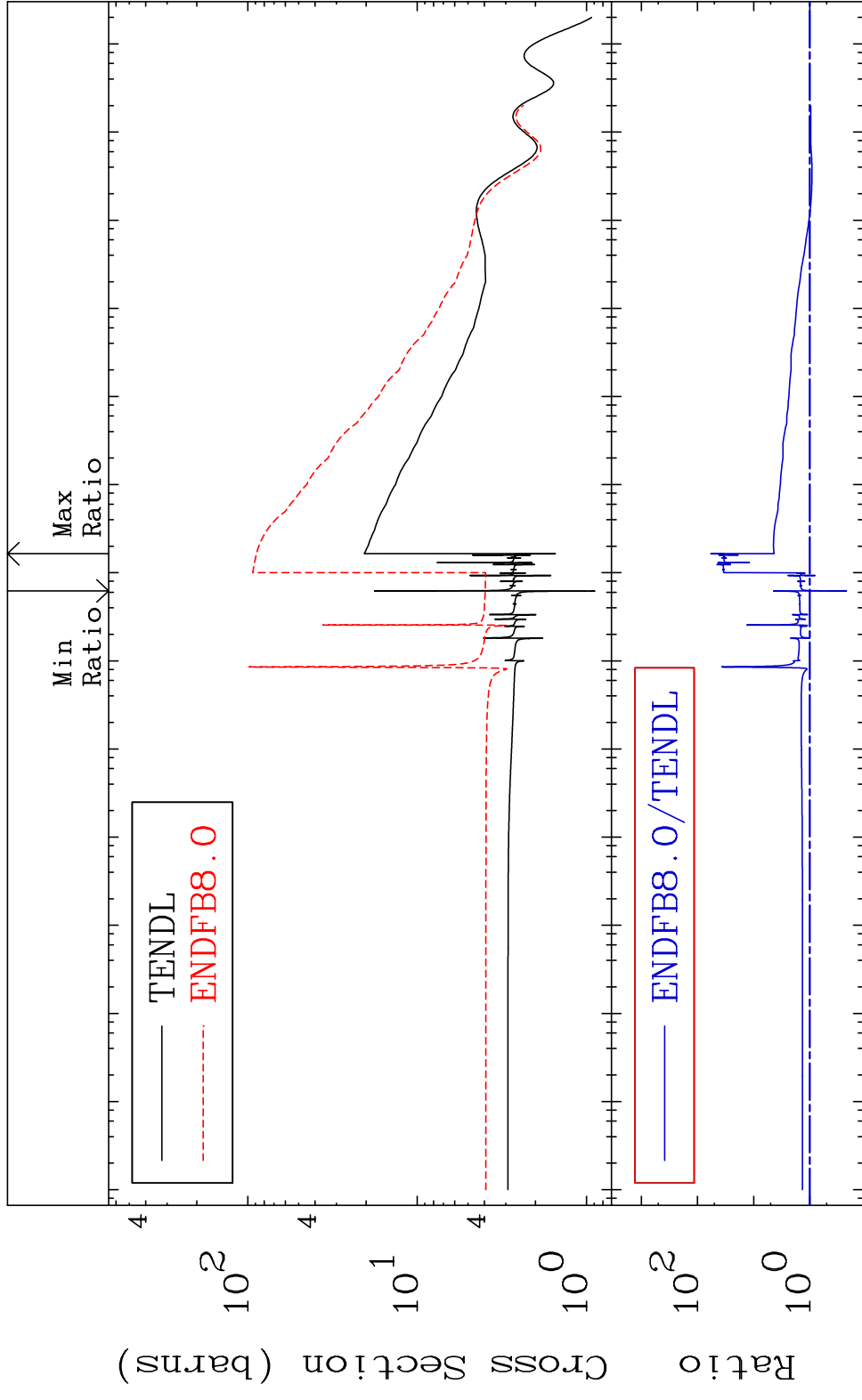
56-Ba-131

MAT 5628

Elastic

56-Ba-131

Cross Section -77.74 To 5724. %



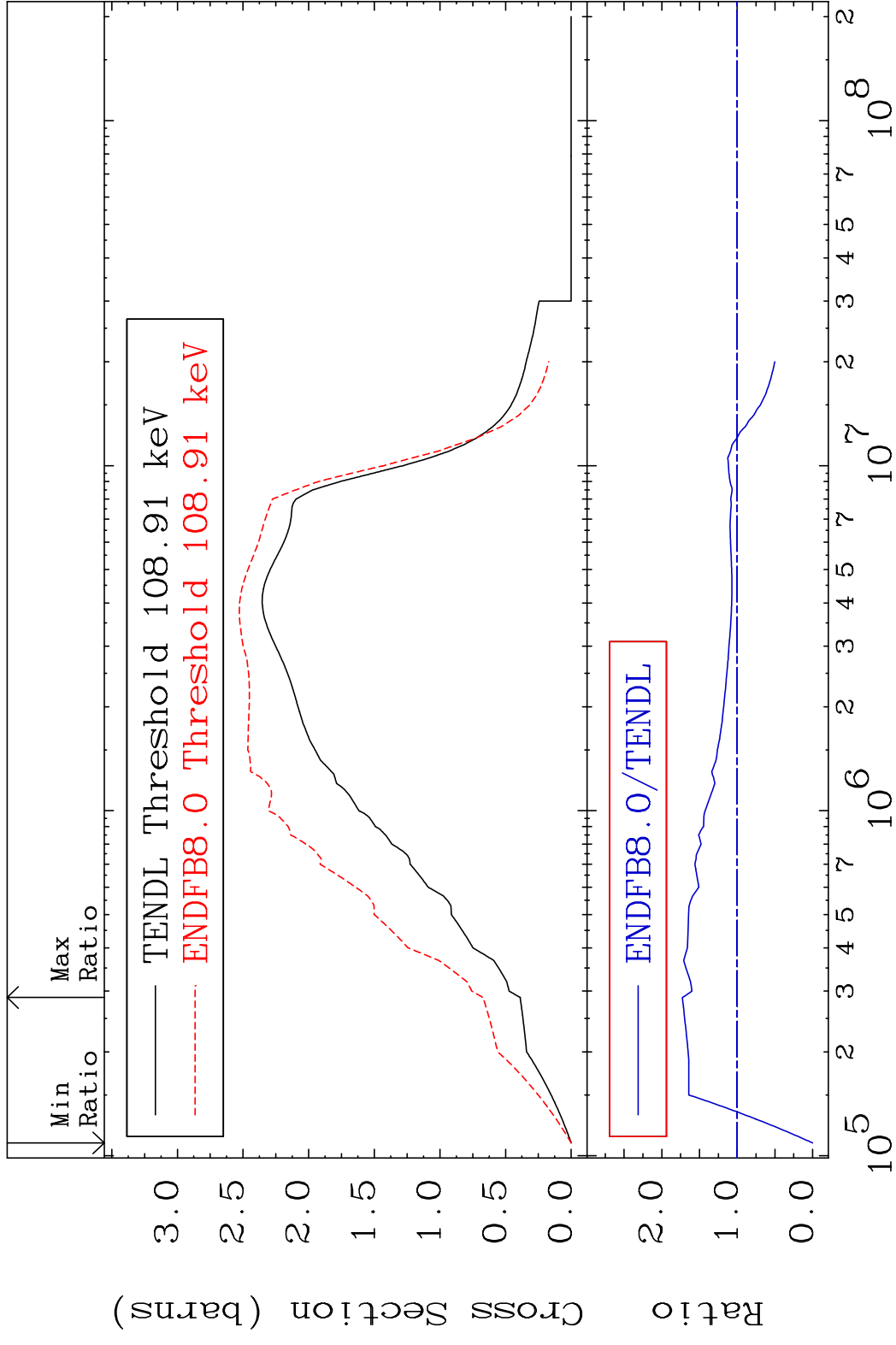
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

56-Ba-131

MAT 5628 Inelastic 56-Ba-131  
 Cross Section -100.0 To 72.72 %



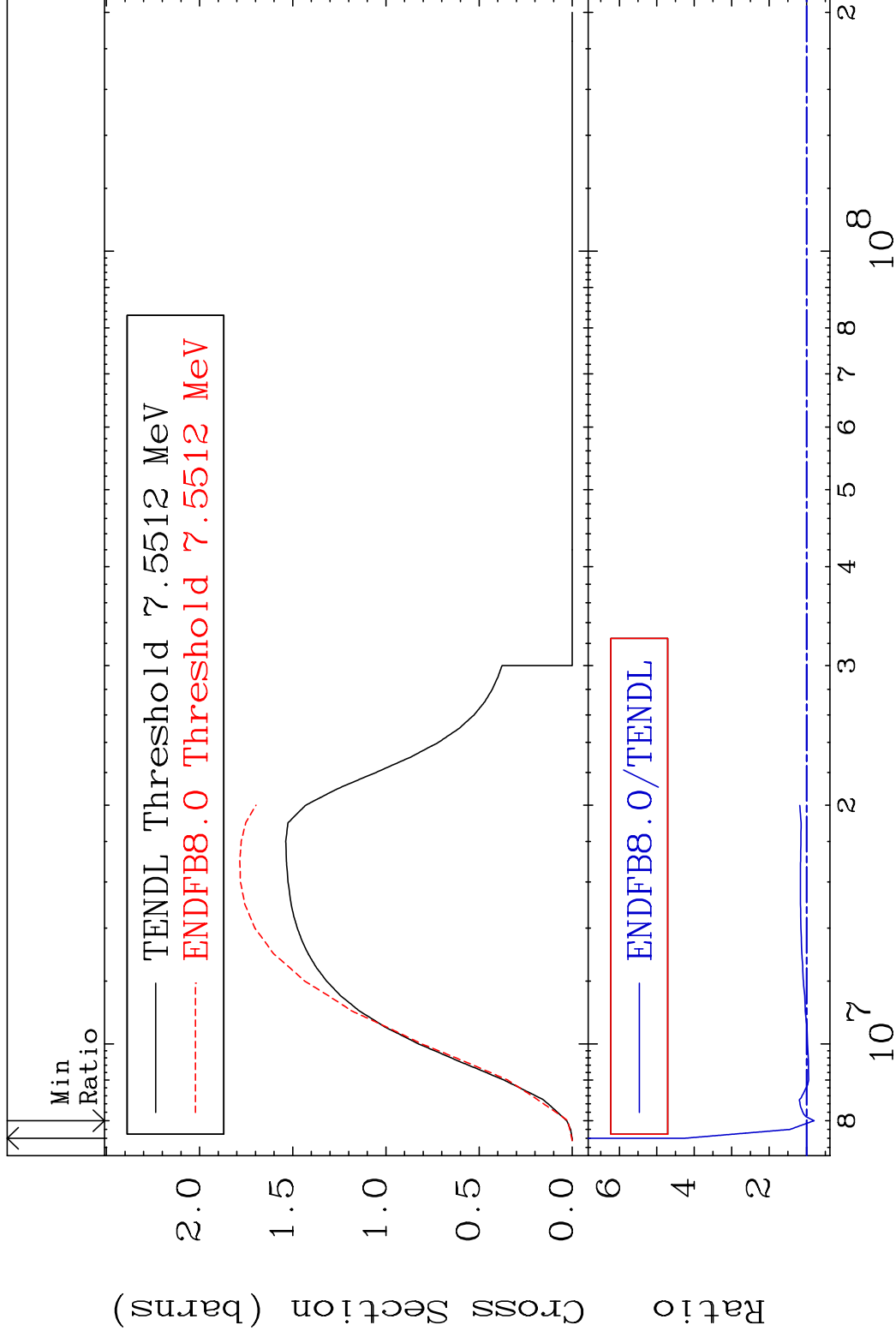
3 Incident Energy (eV) 56-Ba-131

MAT 5628

(n,2n)

56-Ba-131

Cross Section -19.84 To 328.4 %

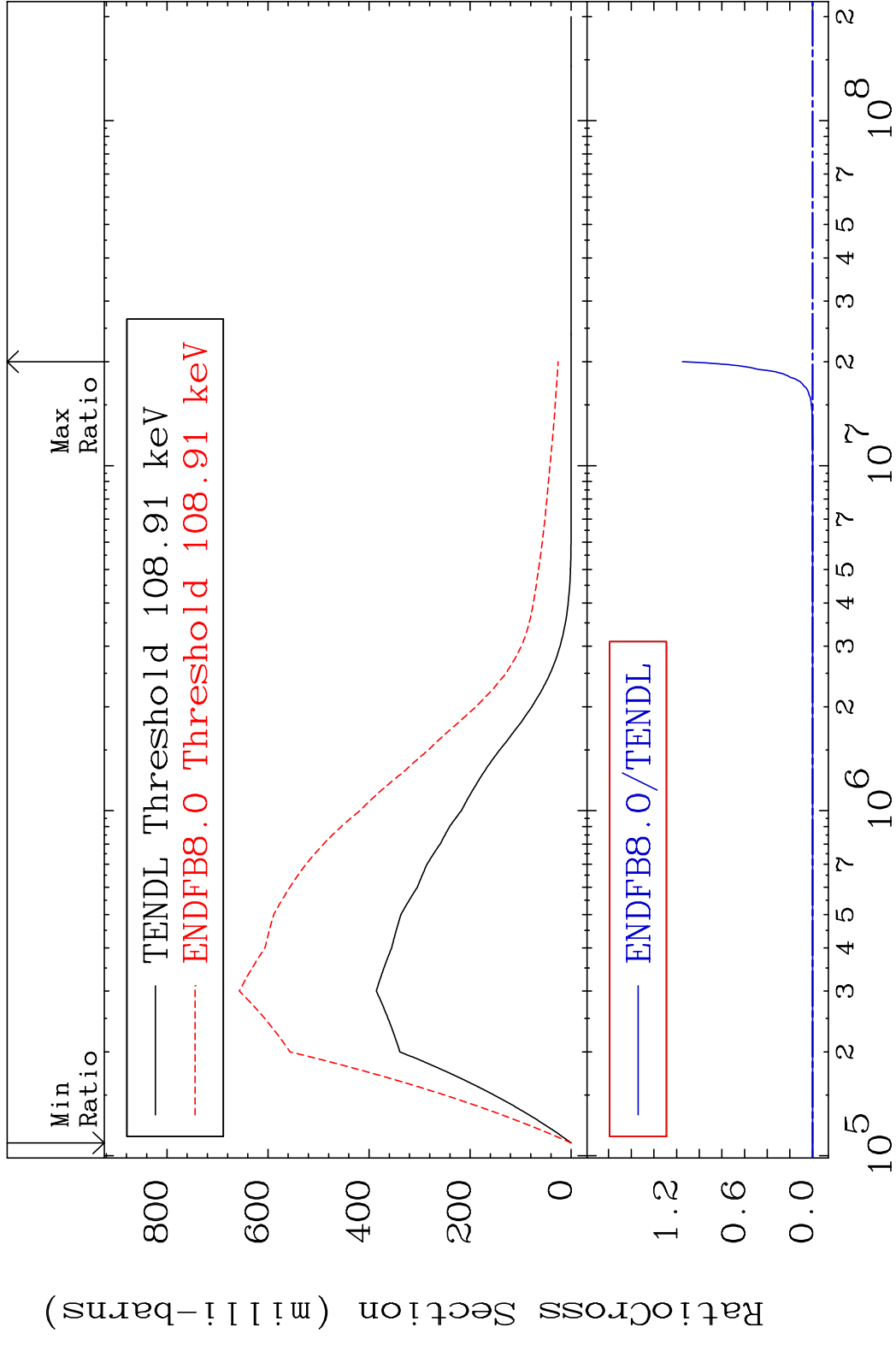


4

Incident Energy (eV)

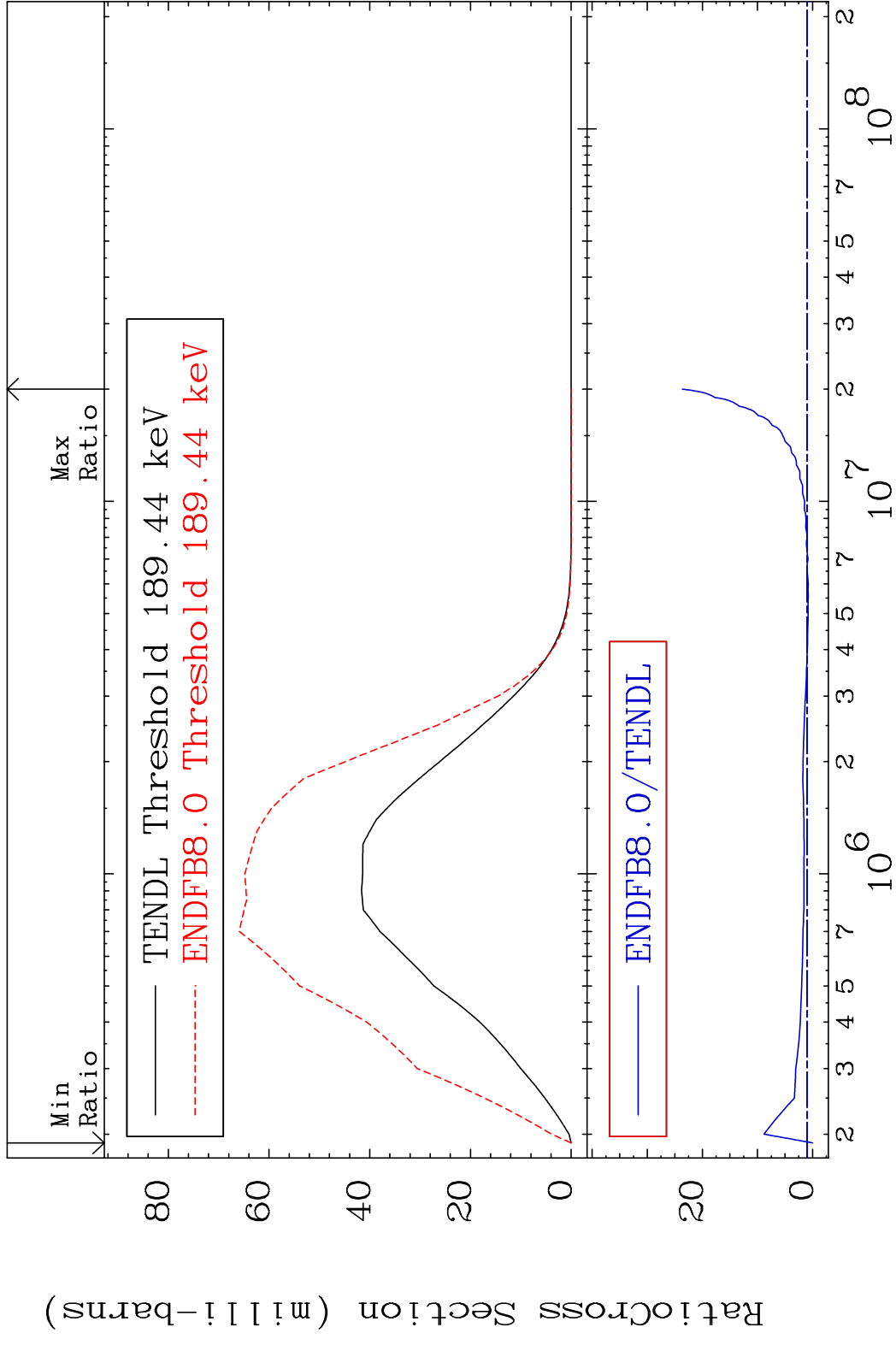
56-Ba-131

MAT 5628 MT= 51 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 9999. %

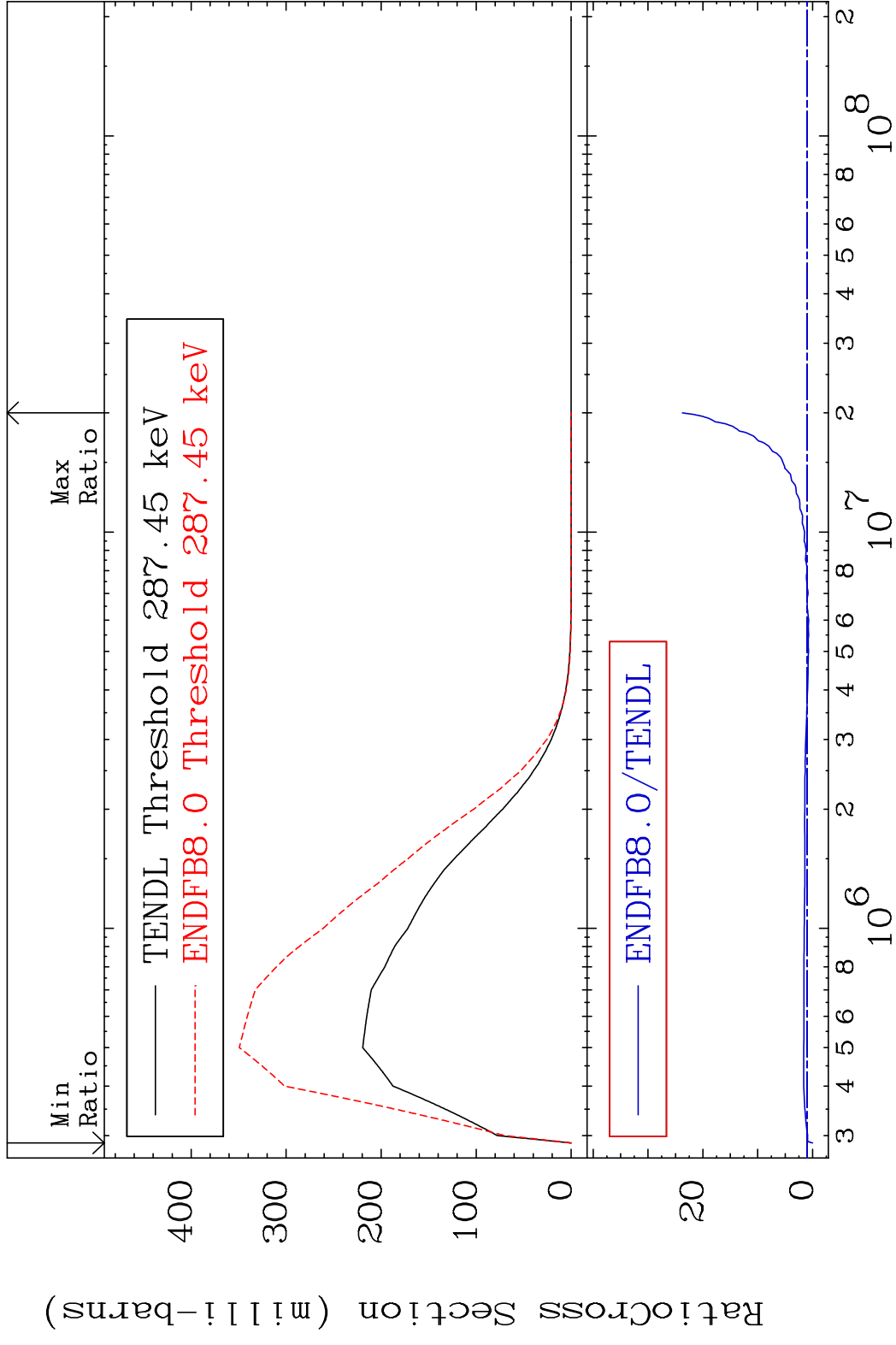


5 56-Ba-131

MAT 5628 MT= 52 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2263. %

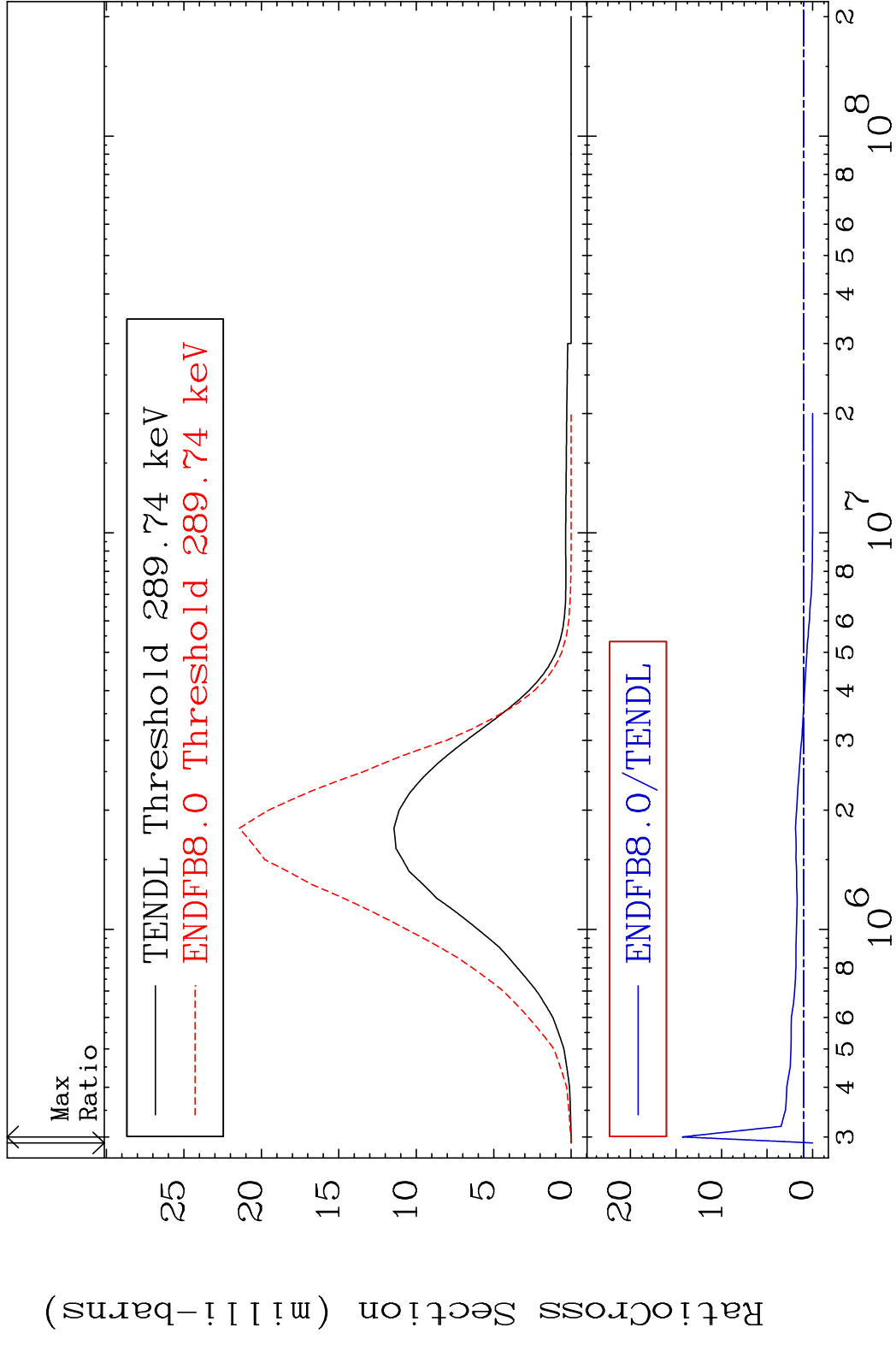


MAT 5628 MT= 53 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2274. %

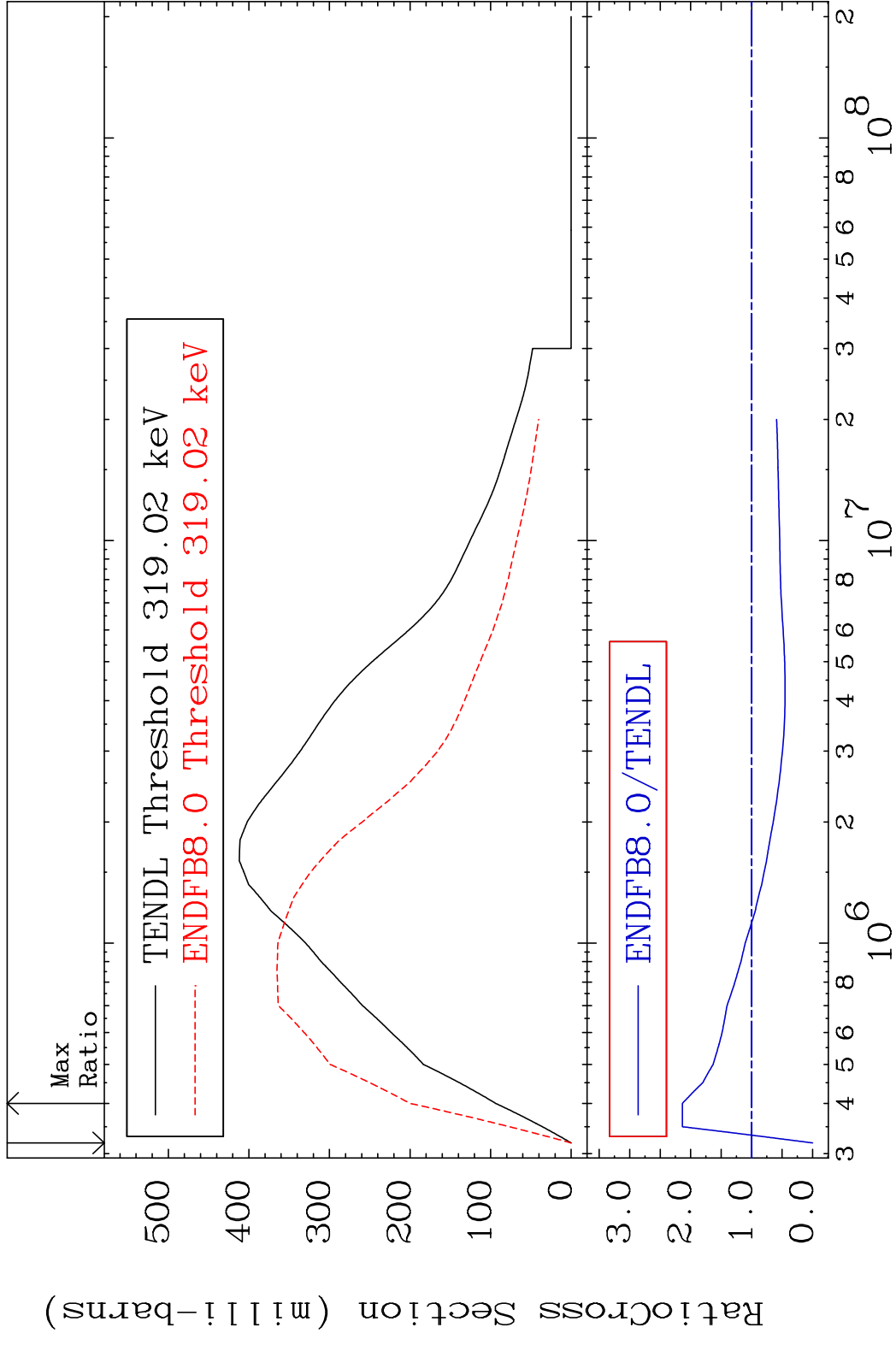




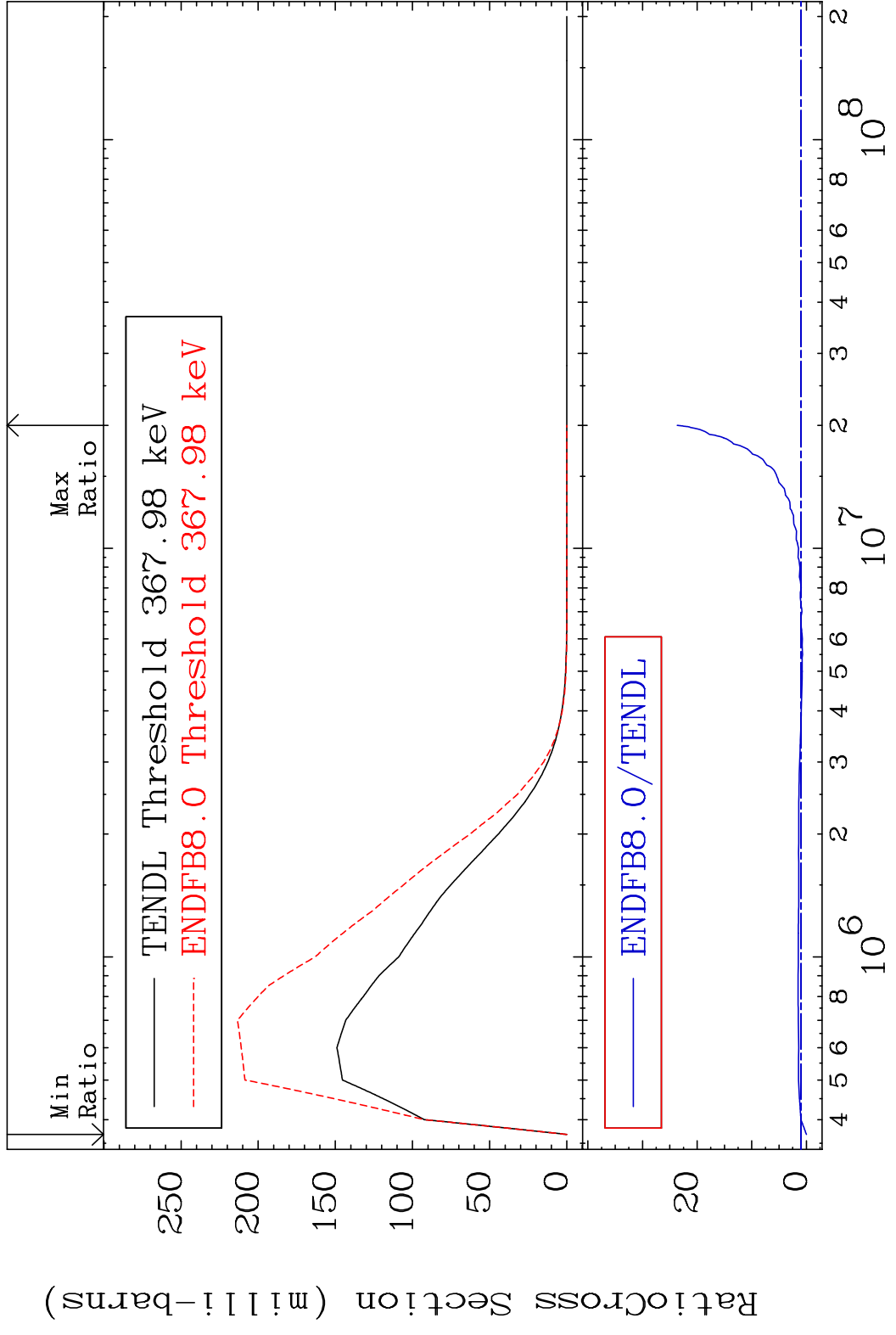
MAT 5628 MT= 54 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 1330. %



MAT 5628 MT= 55 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 113.6 %

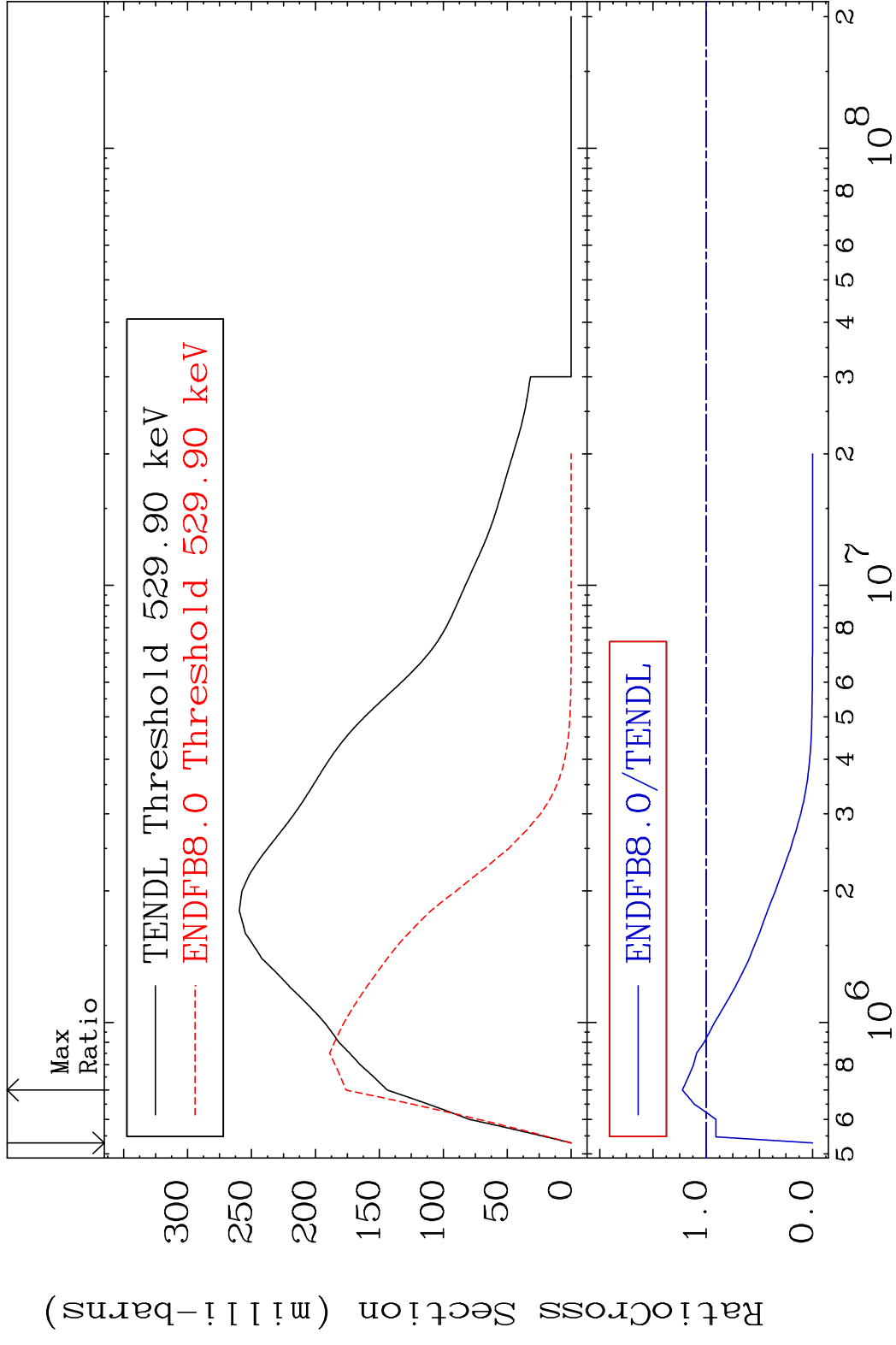


MAT 5628 MT= 56 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 2265. %

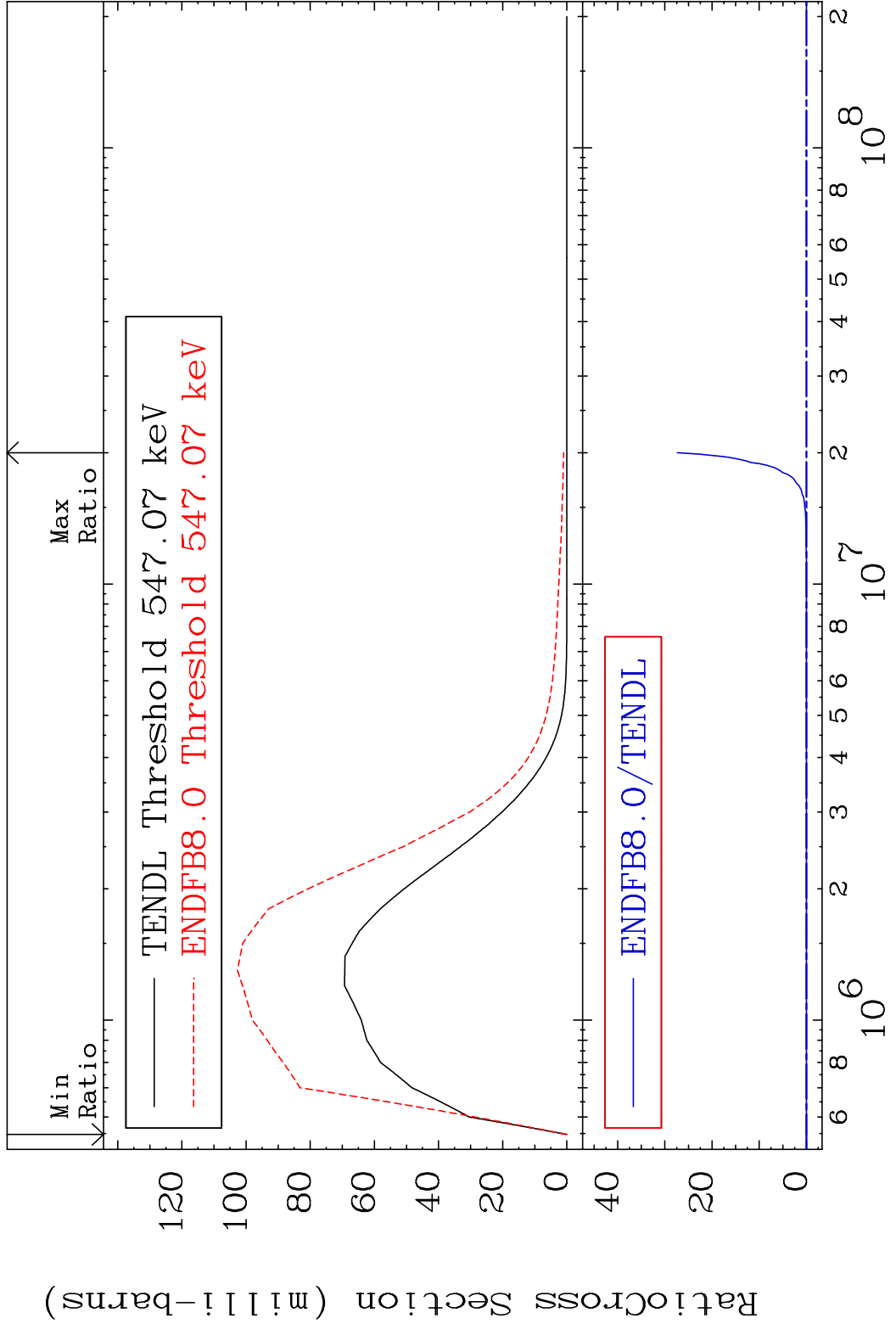


10 100 1000 10000 100000 1000000 10000000 100000000 1000000000 56-Ba-131

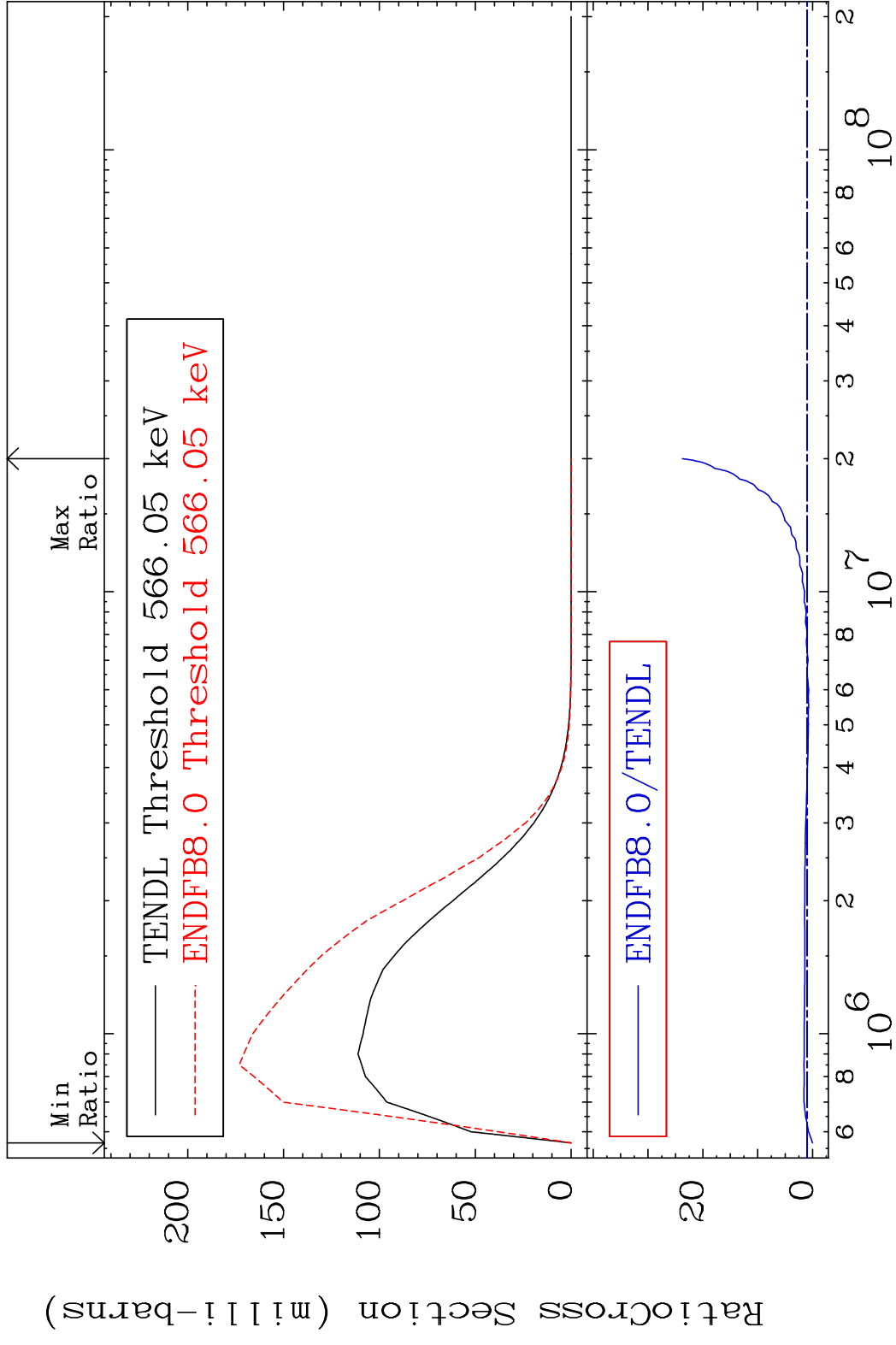
MAT 5628 MT= 57 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 22.37 %



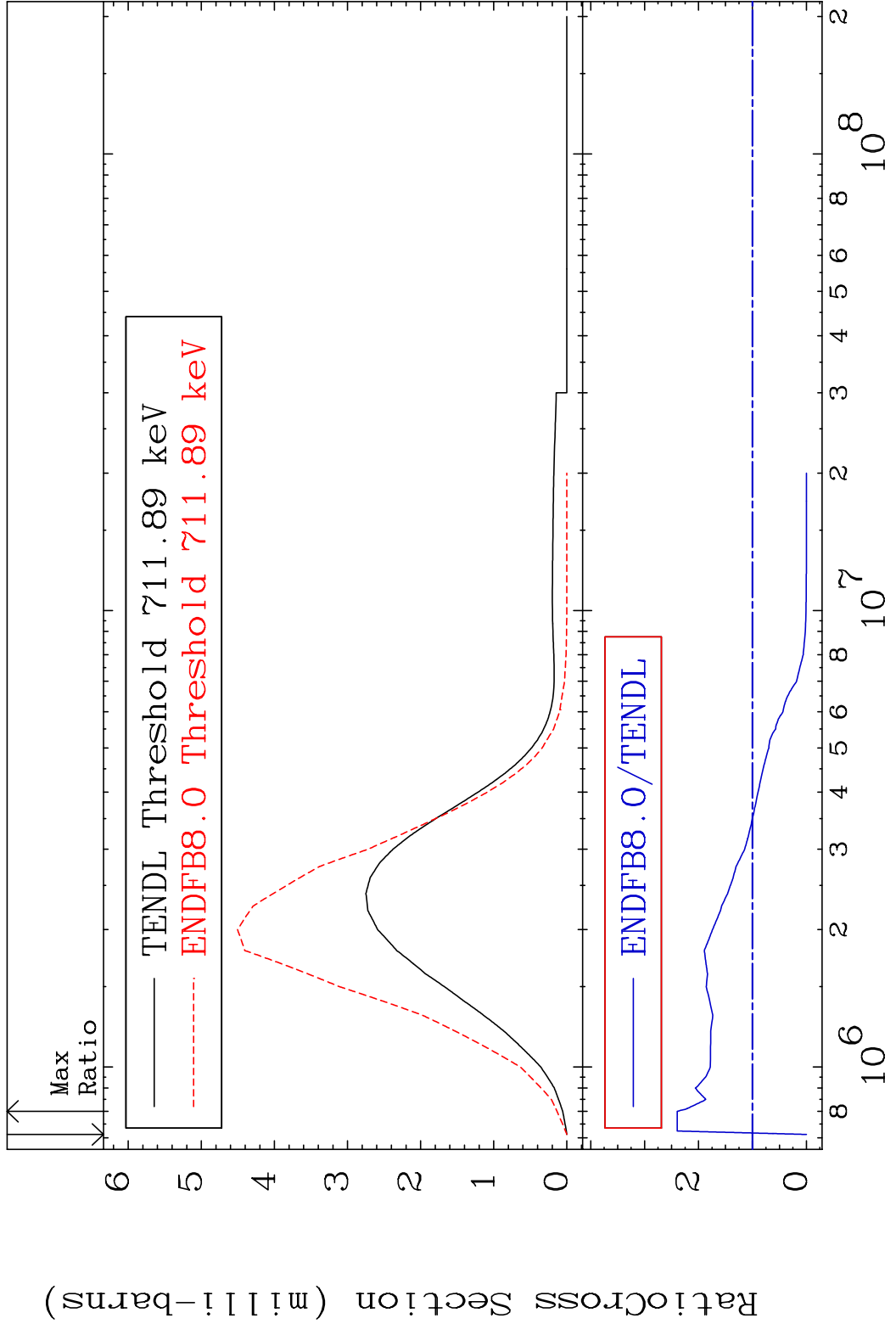
MAT 5628 MT= 58 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 9999. %



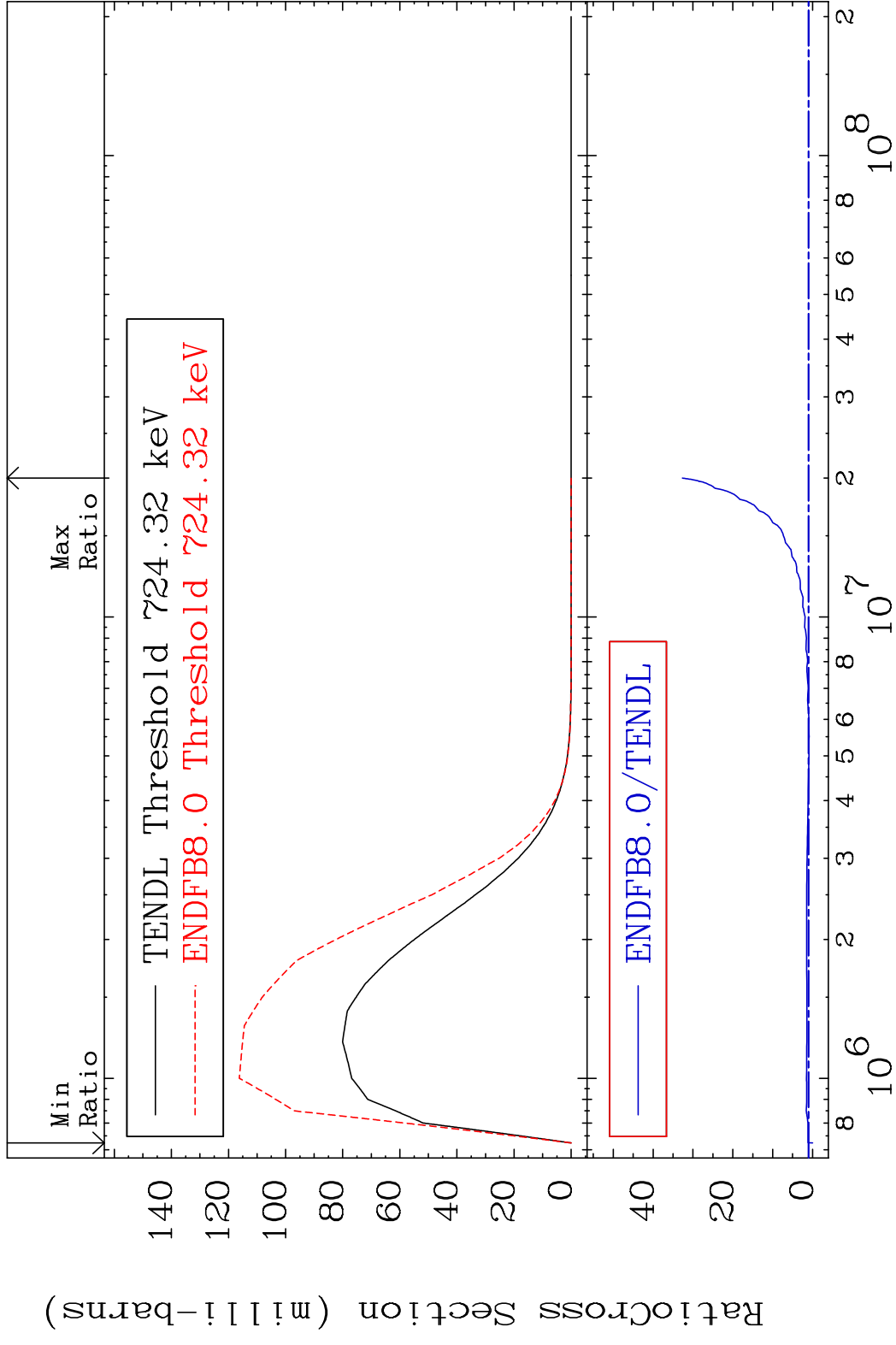
MAT 5628 MT= 59 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2275. %



MAT 5628 MT= 60 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 139.6 %

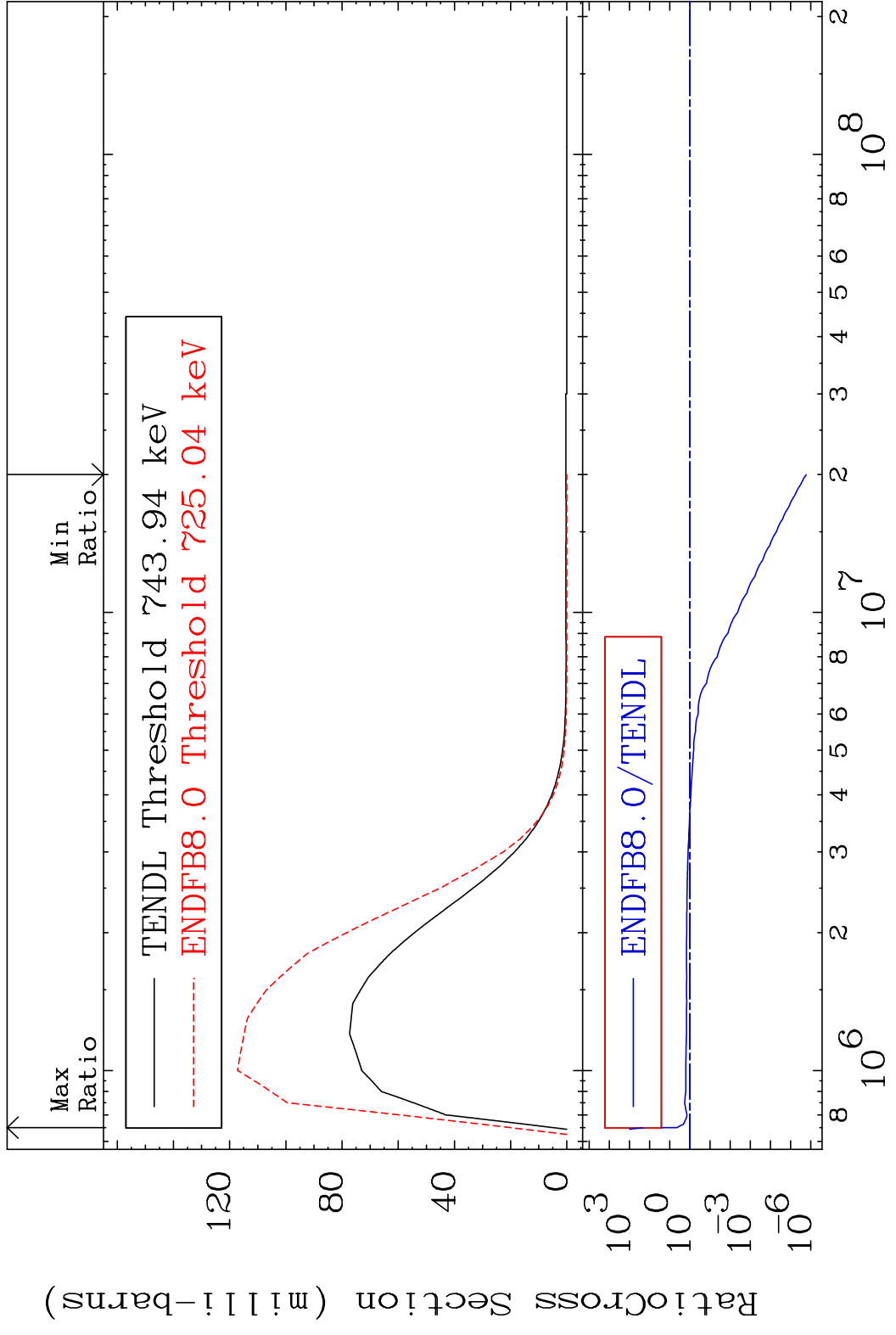


MAT 5628 MT= 61 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 3167. %

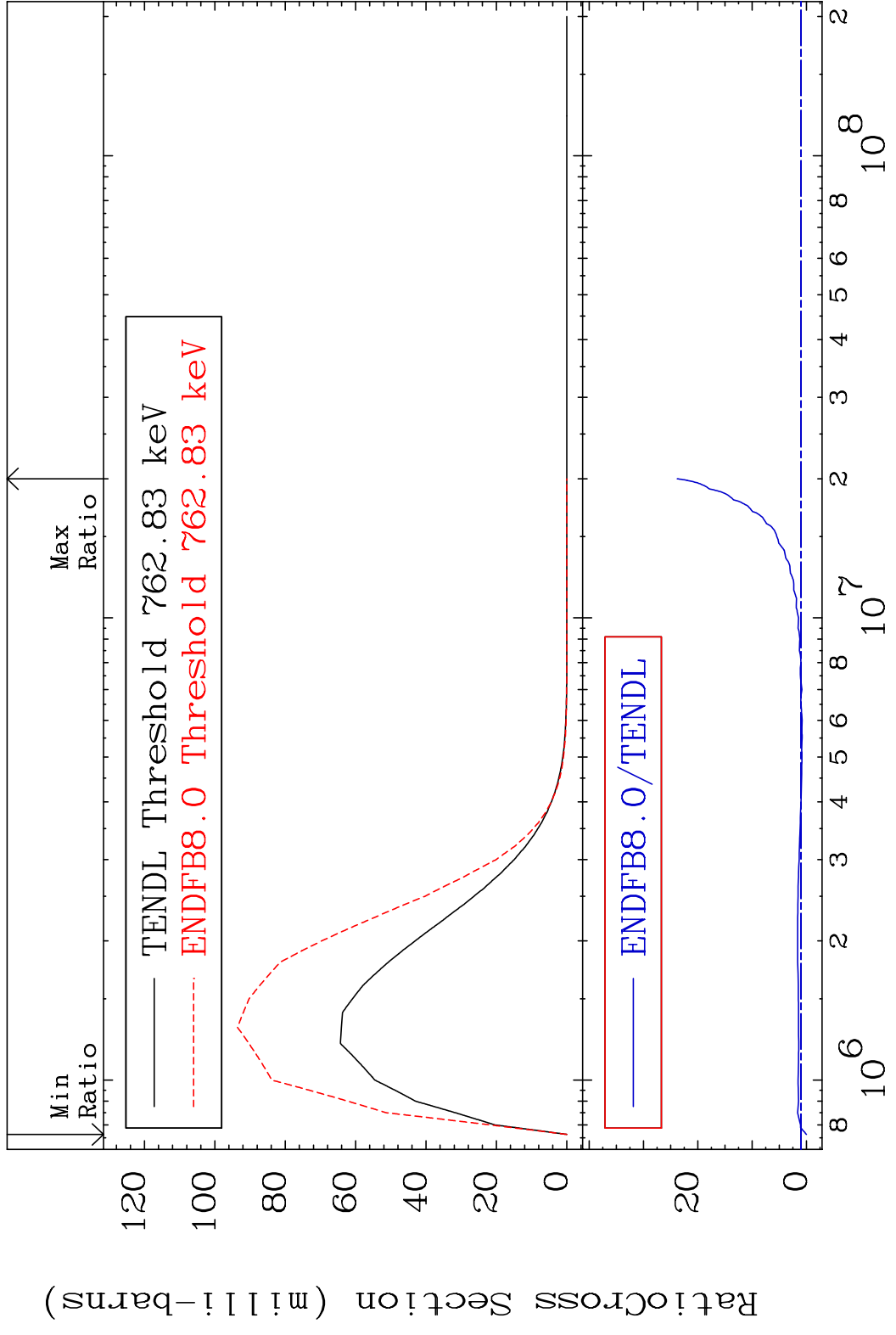




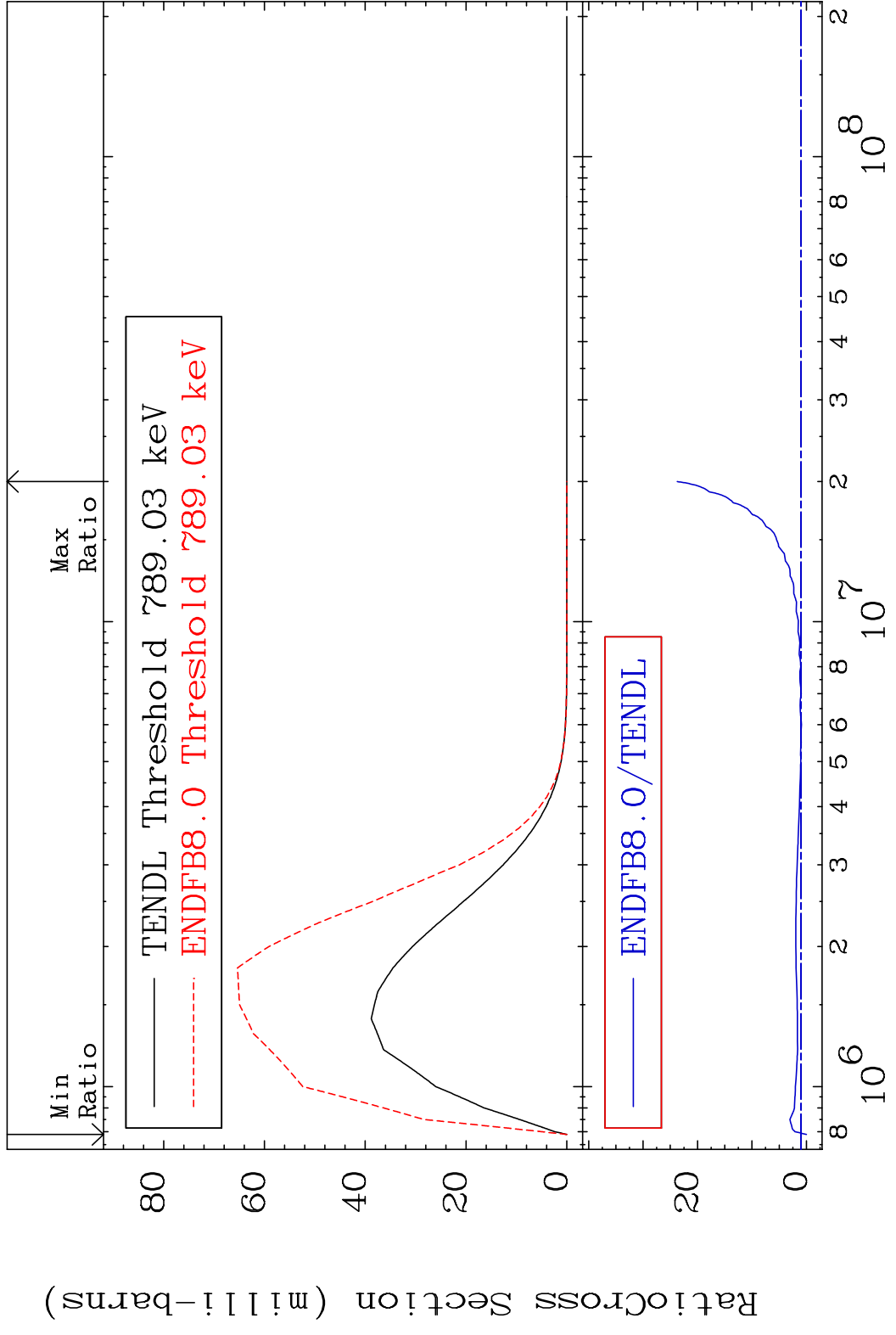
MAT 5628 MT= 62 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 326.0 %



MAT 5628 MT= 63 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2280. %

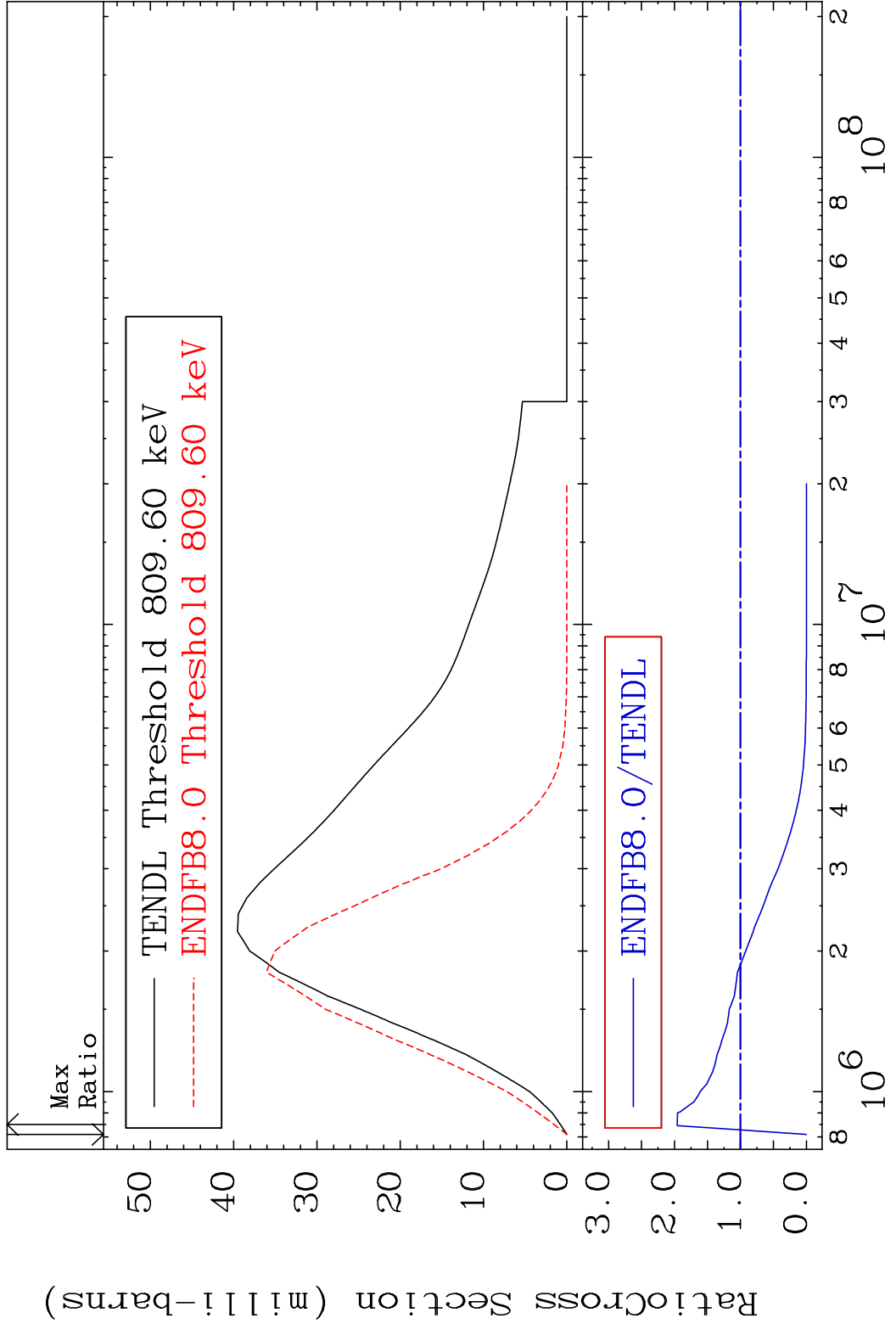


MAT 5628 MT= 64 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2273. %

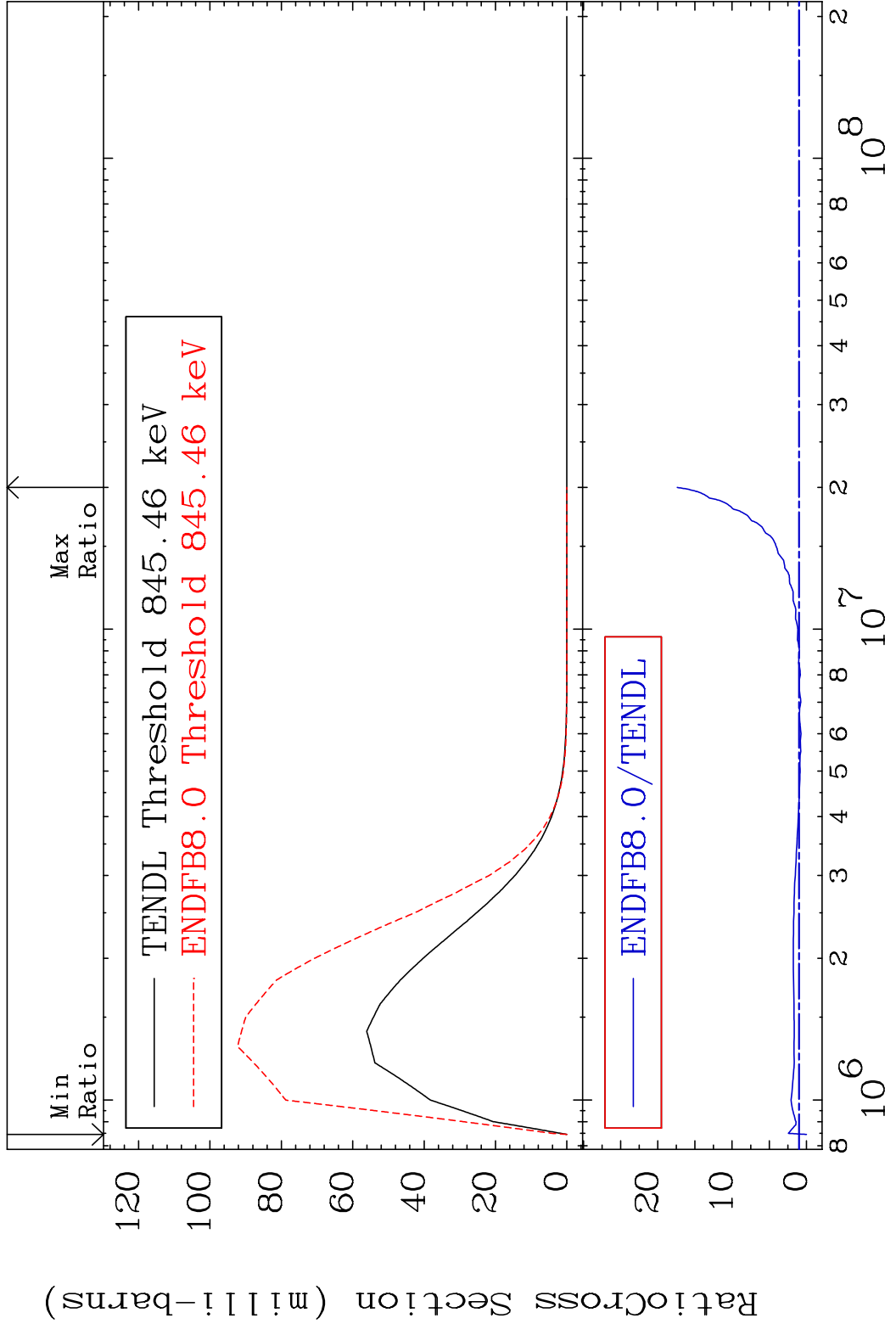


18 Incident Energy (eV) 56-Ba-131

MAT 5628 MT= 65 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 95.92 %

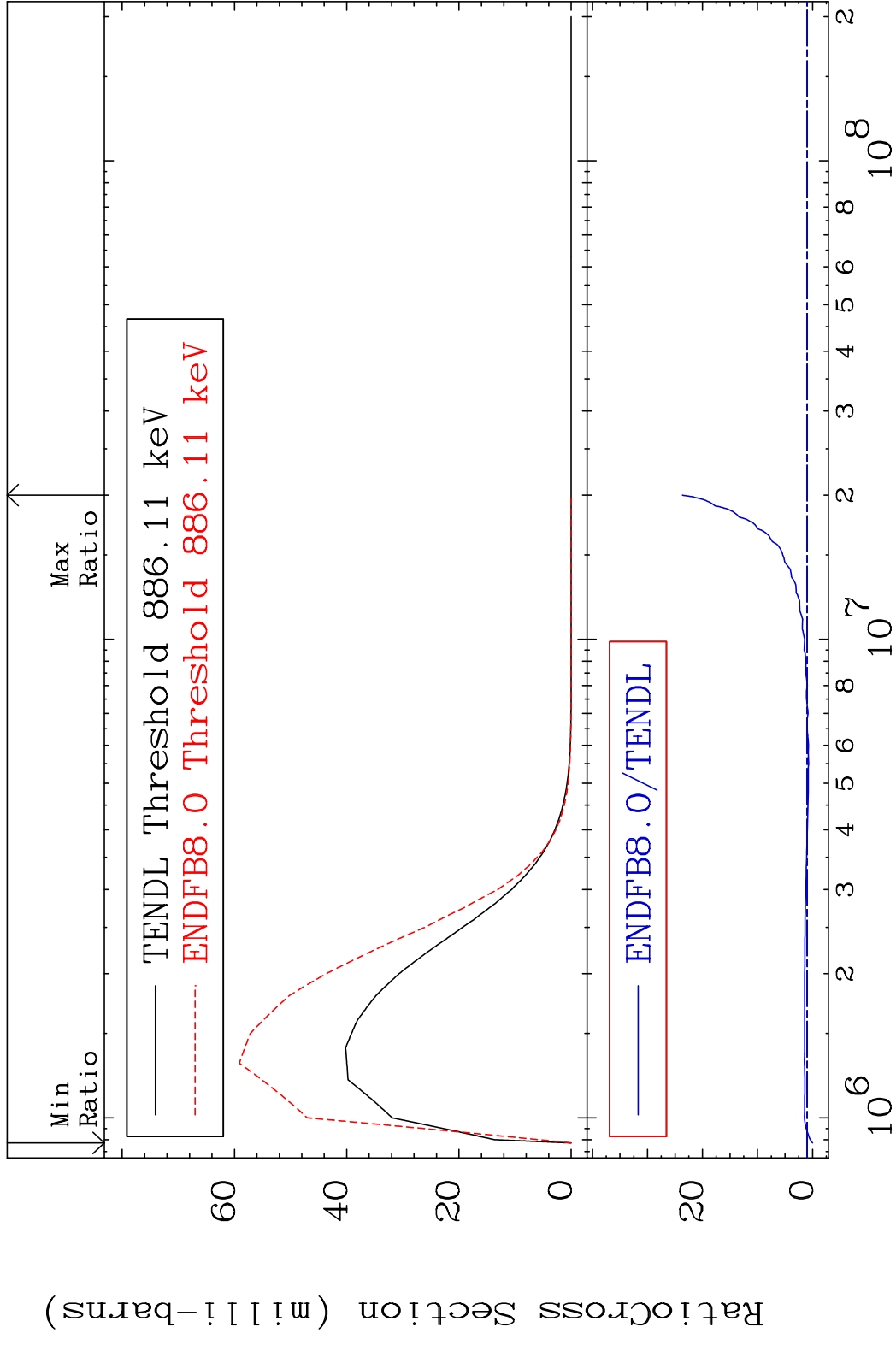


MAT 5628 MT= 66 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 1639. %



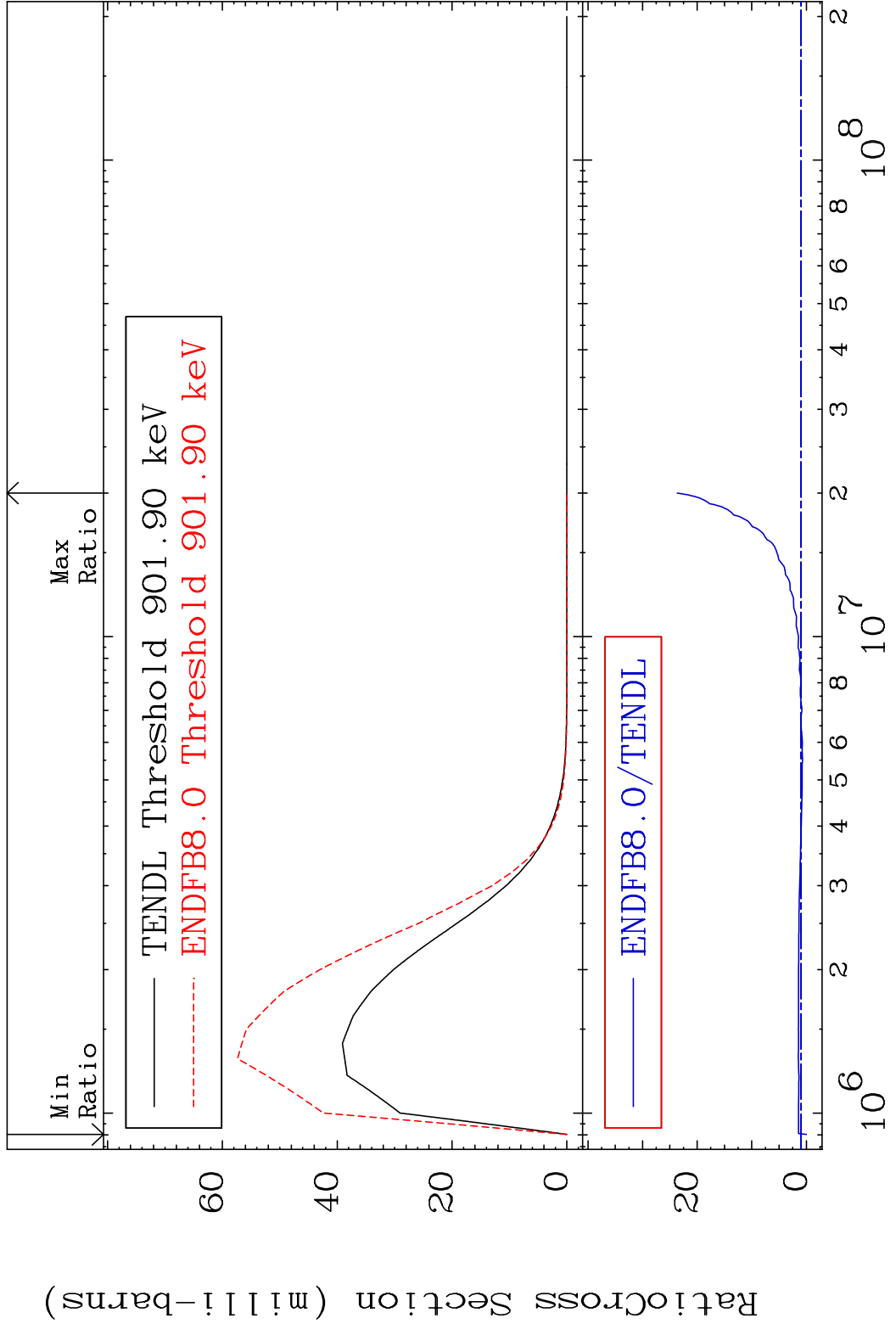
20 Incident Energy (eV) 56-Ba-131

MAT 5628 MT= 67 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2266. %

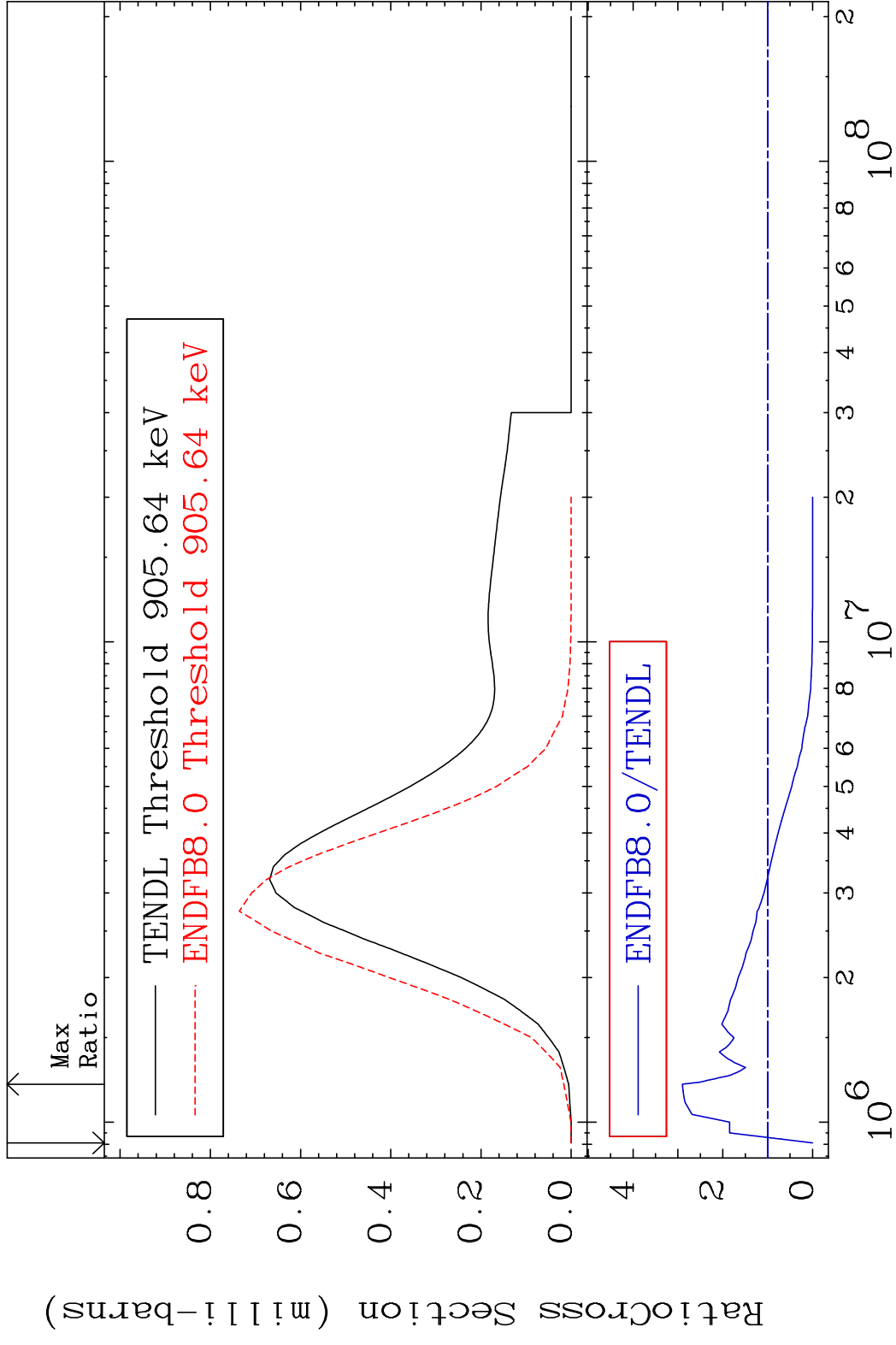


21 Incident Energy (eV) 56-Ba-131

MAT 5628 MT= 68 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 2266. %

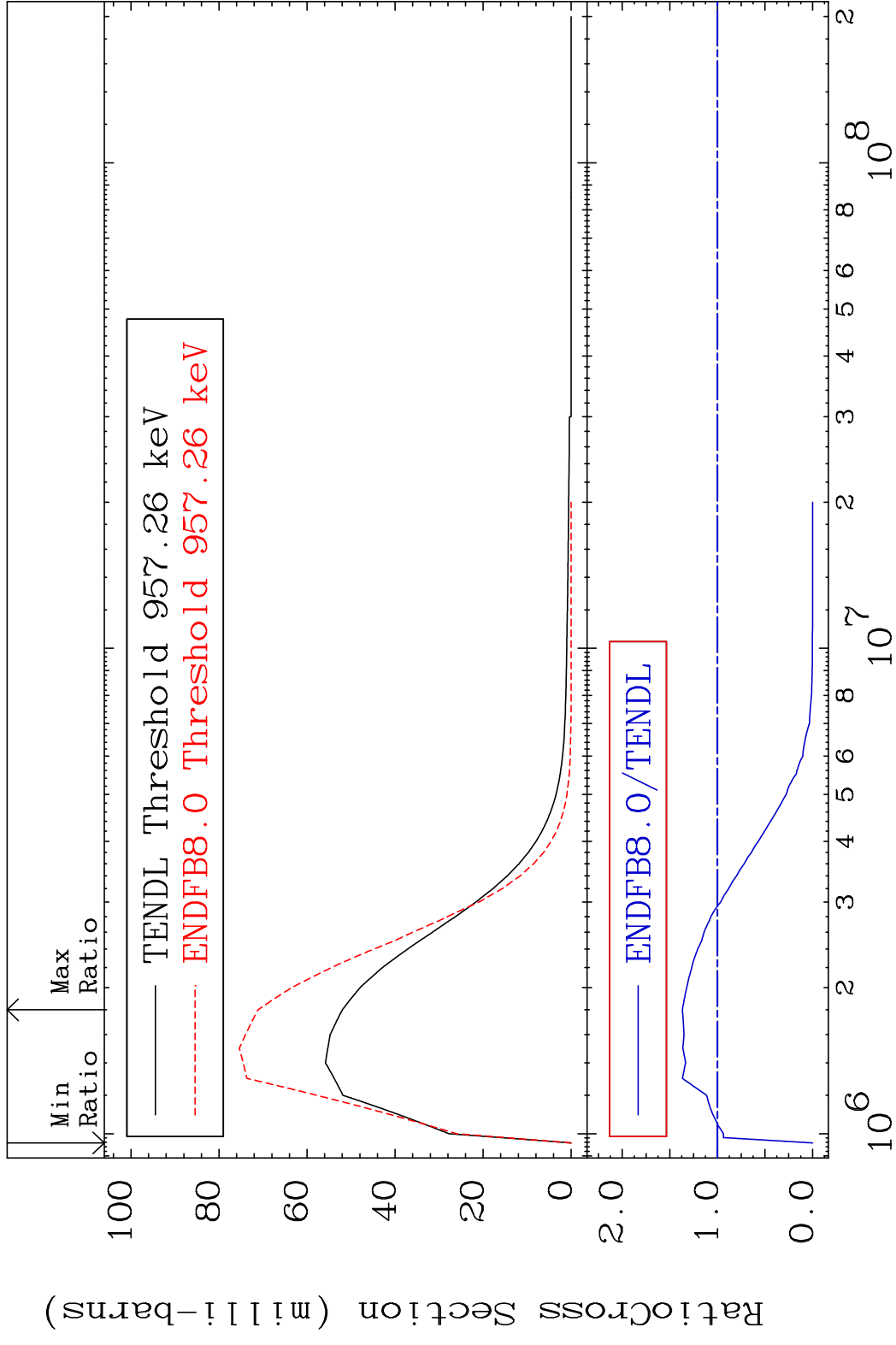


MAT 5628 MT= 69 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 190.1 %

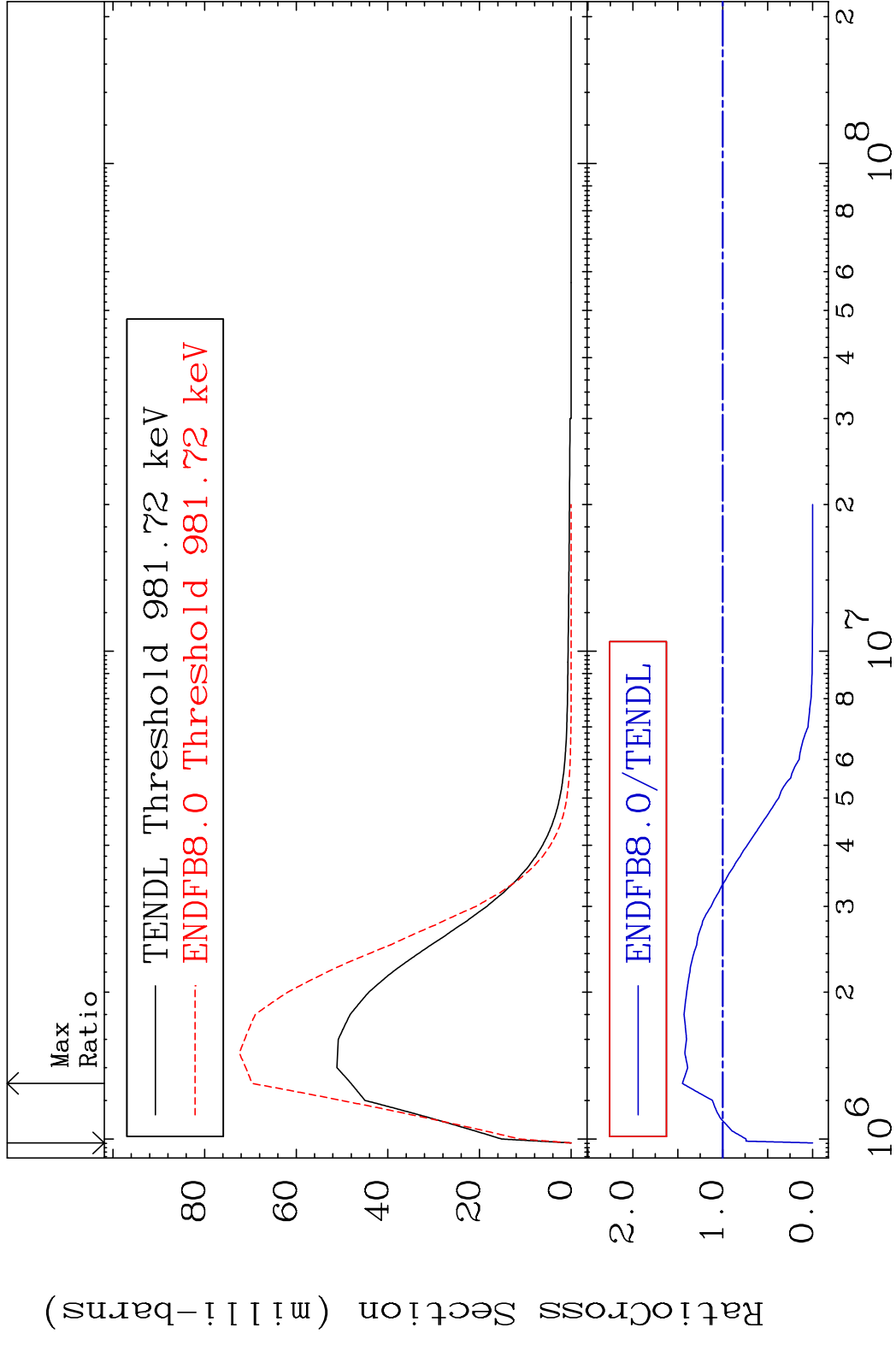




MAT 5628 MT= 70 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 36.87 %

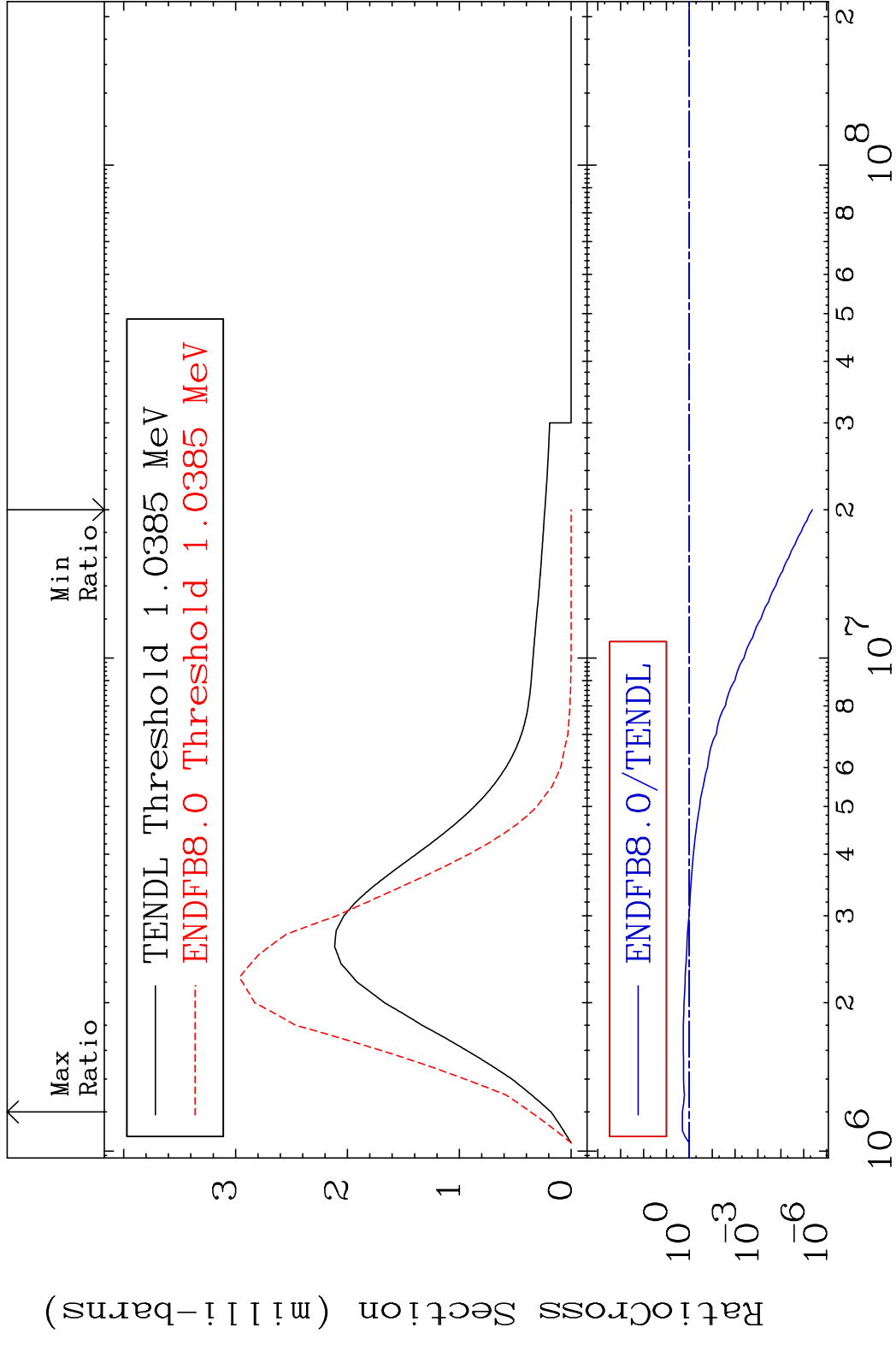


MAT 5628 MT= 71 (n,n') Level 56-Ba-131  
 Cross Section -100.0 To 44.88 %



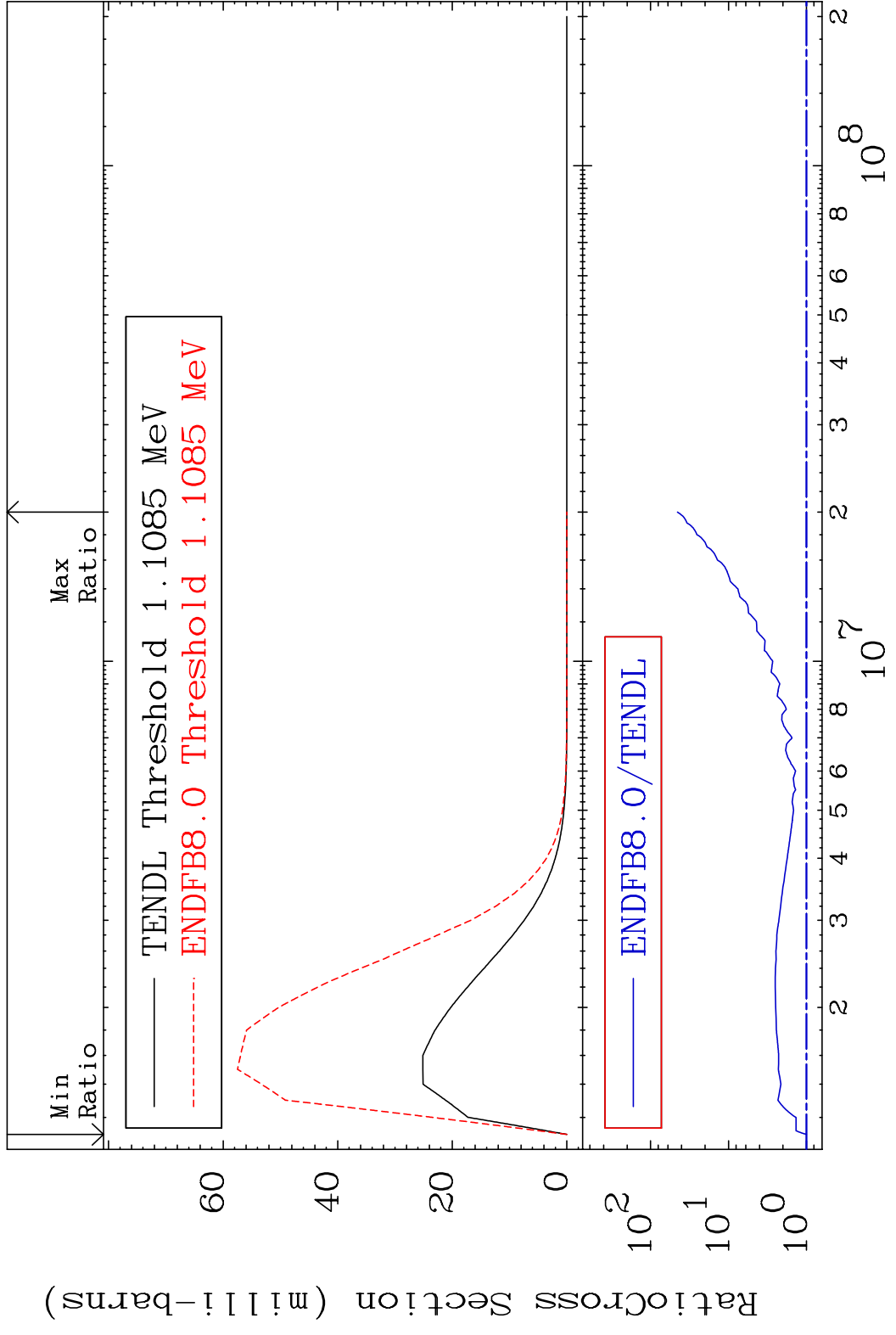
25 Incident Energy (eV) 56-Ba-131

MAT 5628 MT= 72 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 101.1 %

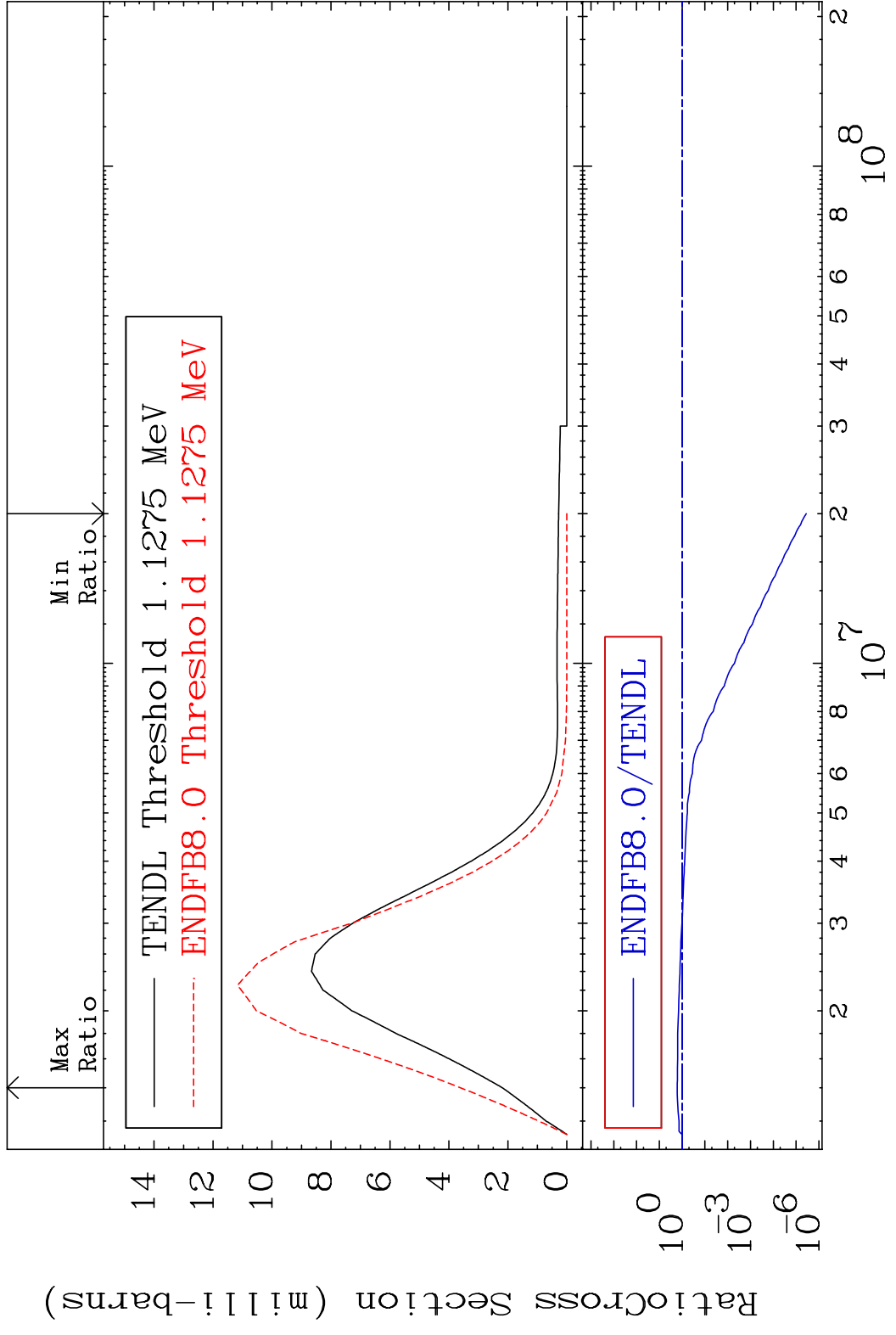


26 Incident Energy (eV) 56-Ba-131

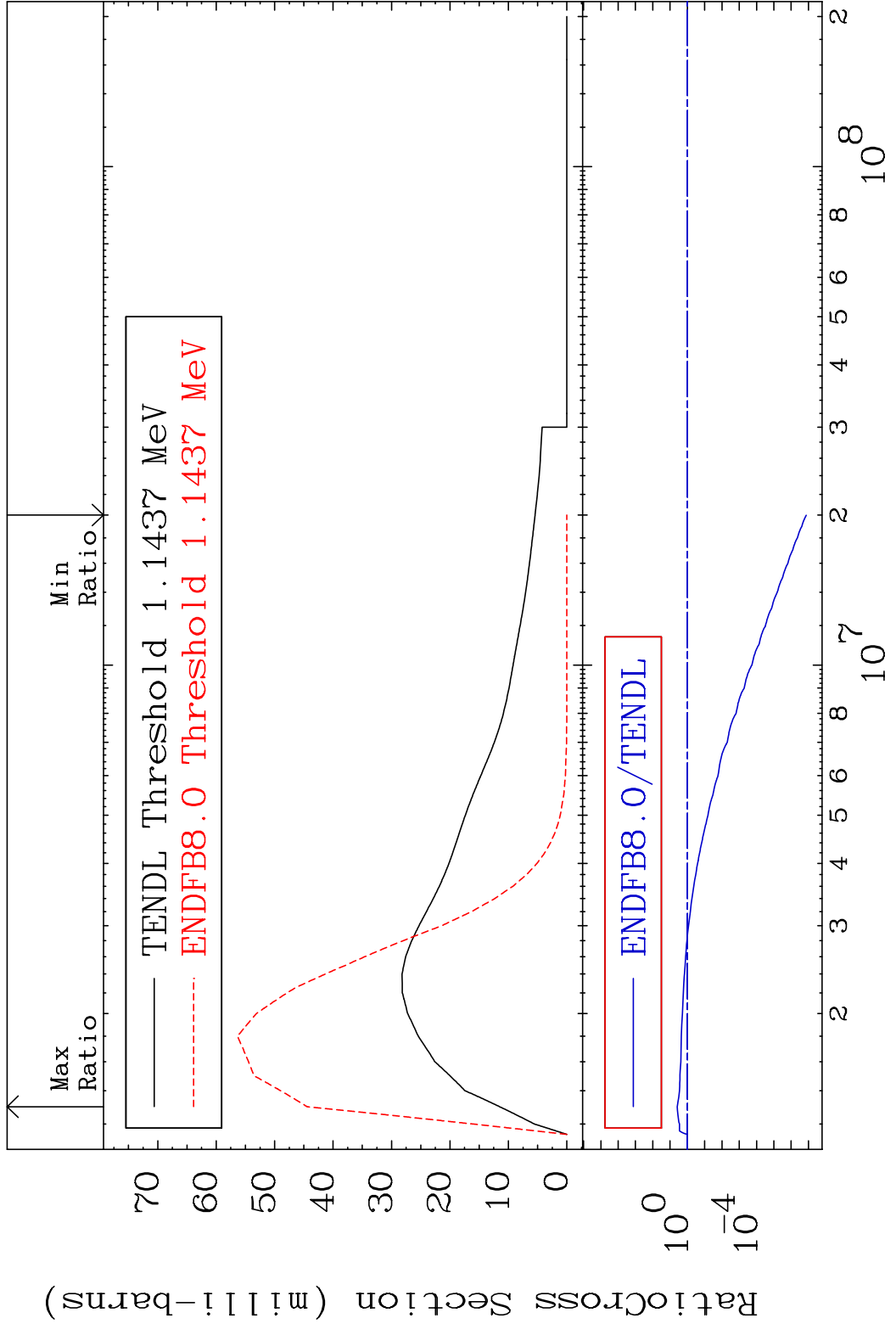
MAT 5628 MT= 73 (n, n') Level 56-Ba-131  
 Cross Section 0.000 To 4456. %



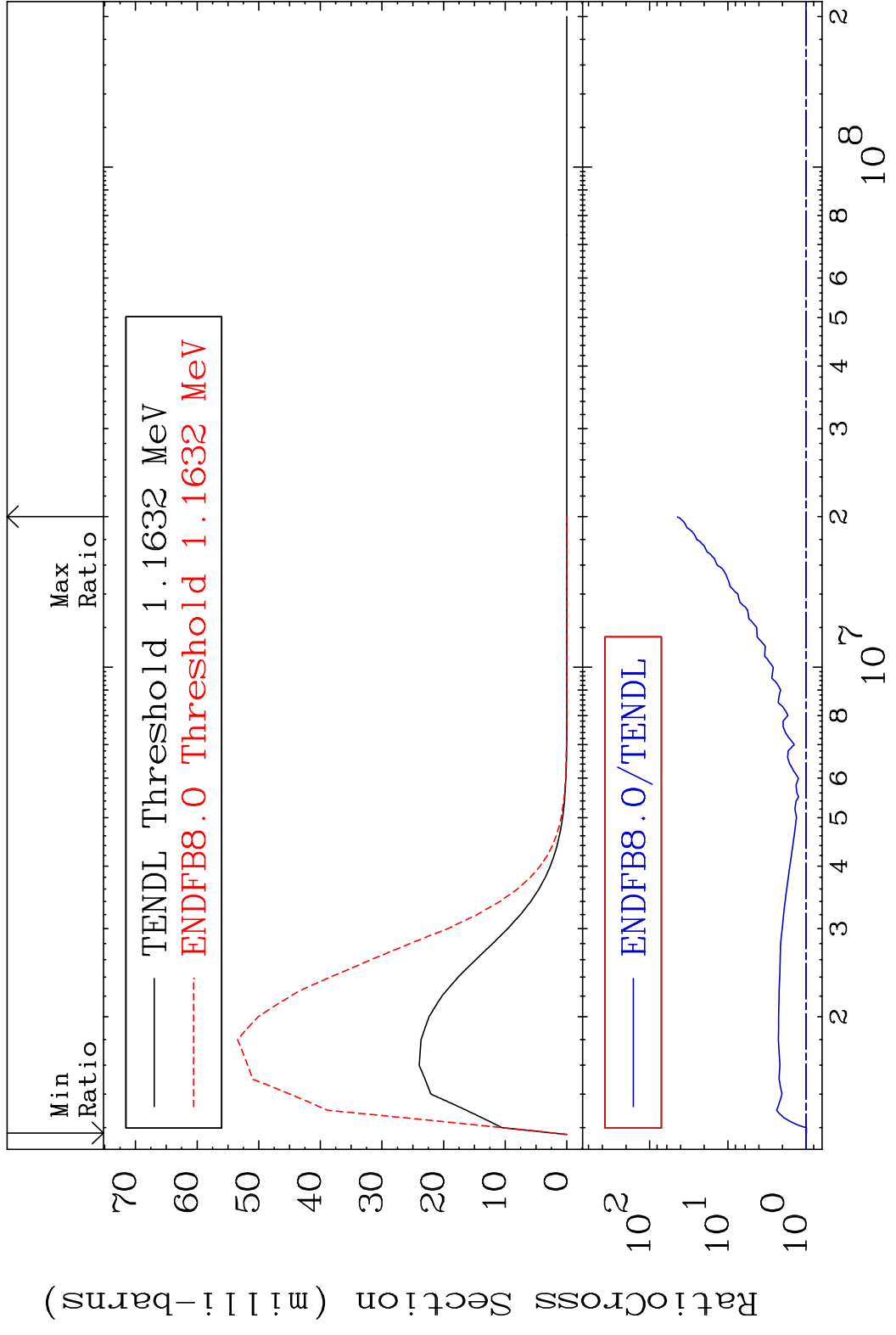
MAT 5628 MT= 74 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 64.80 %



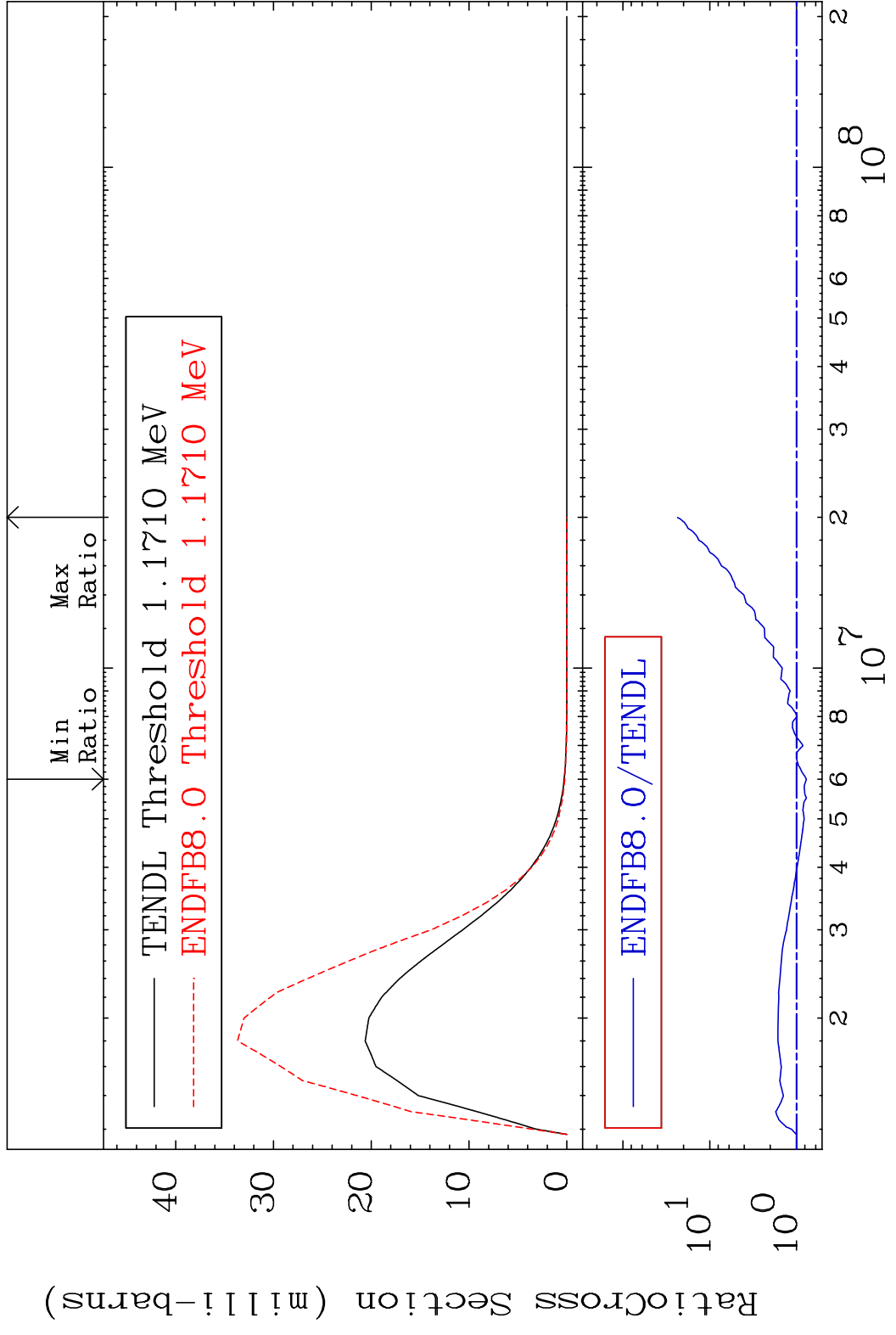
MAT 5628 MT= 75 (n, n') Level 56-Ba-131  
 Cross Section -100.0 To 286.7 %



MAT 5628 MT= 76 (n,n') Level 56-Ba-131  
 Cross Section -0.870 To 4333. %

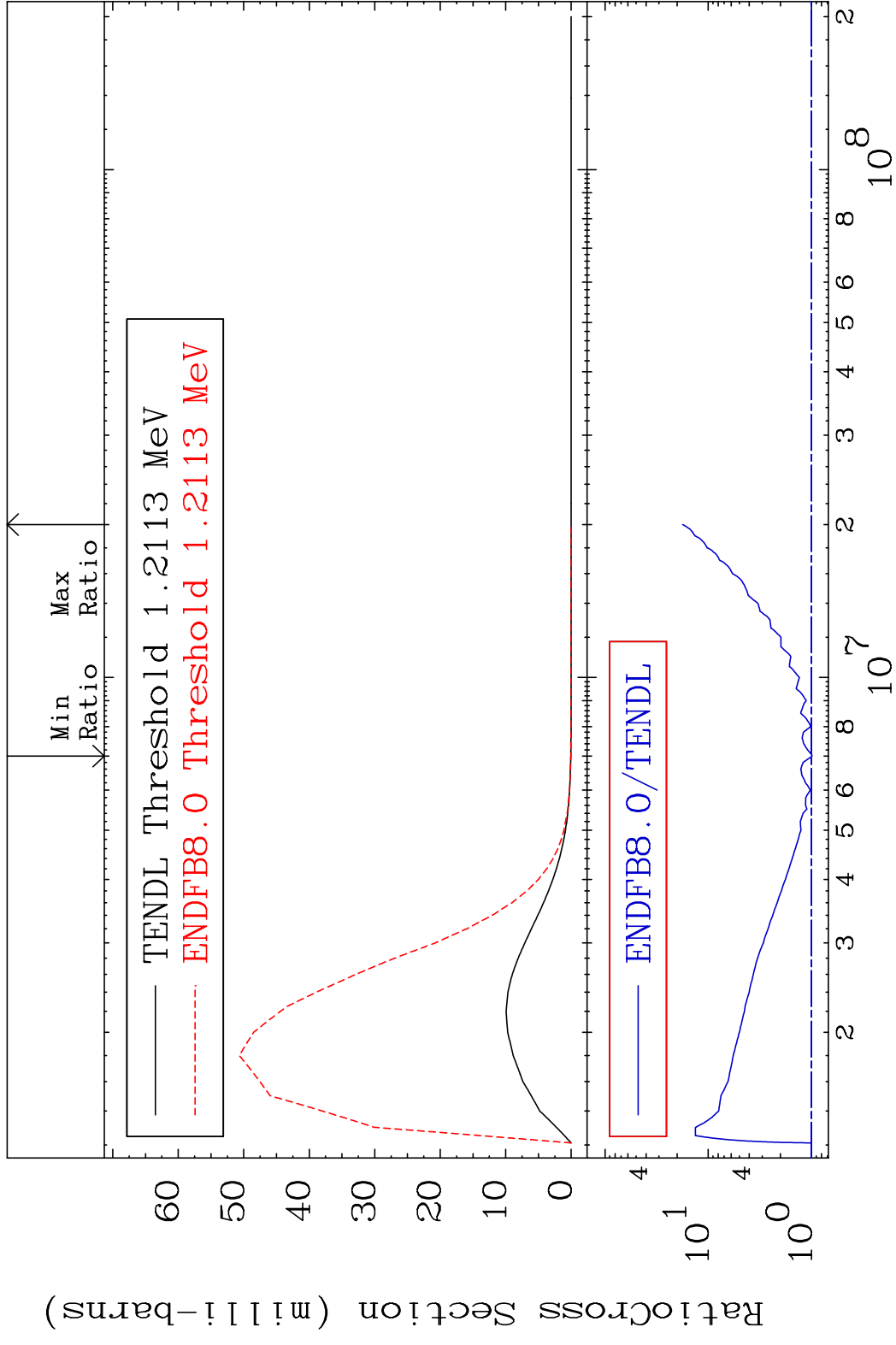


MAT 5628 MT= 77 (n, n') Level 56-Ba-131  
 Cross Section -23.19 To 2272. %

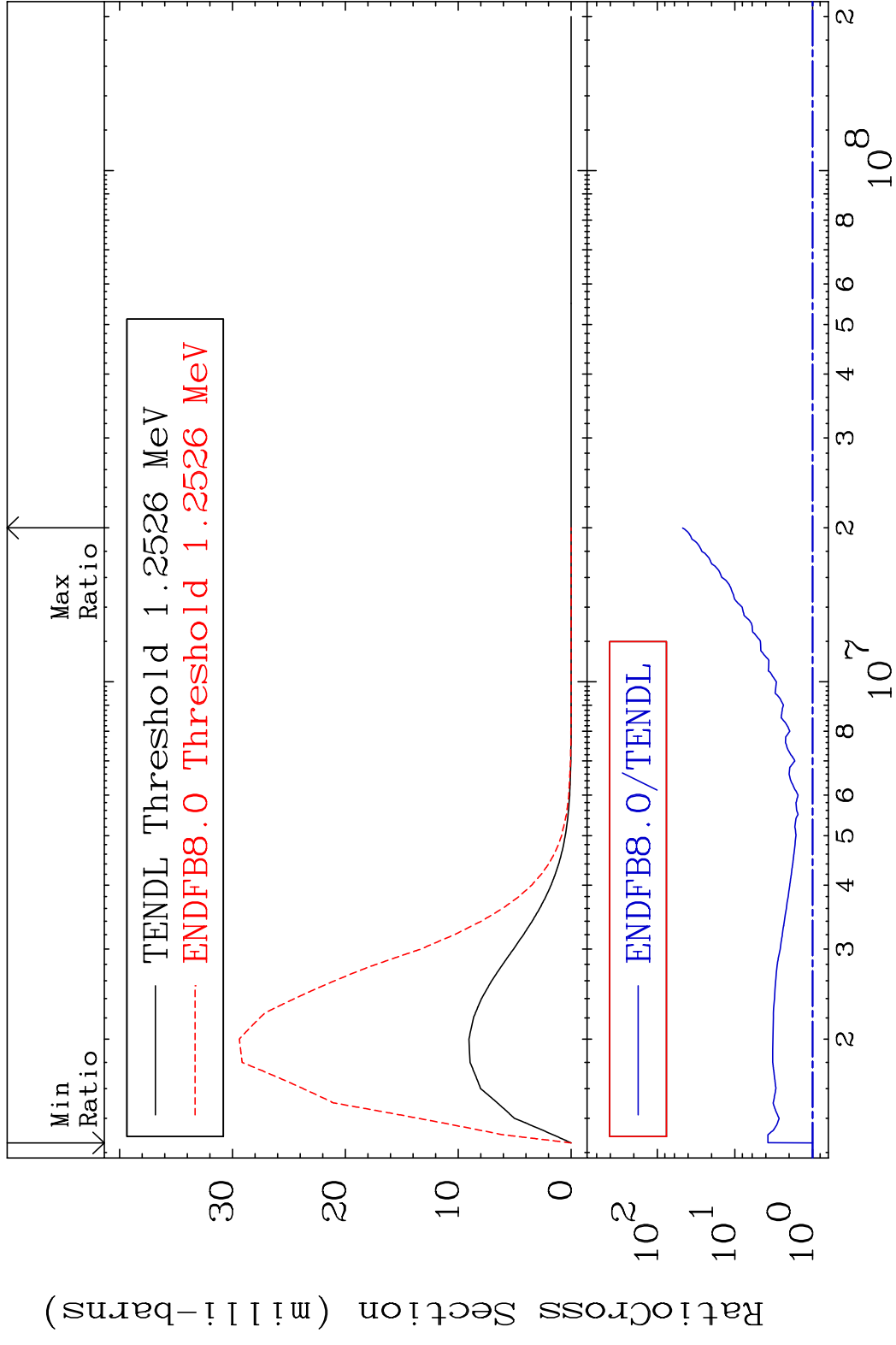




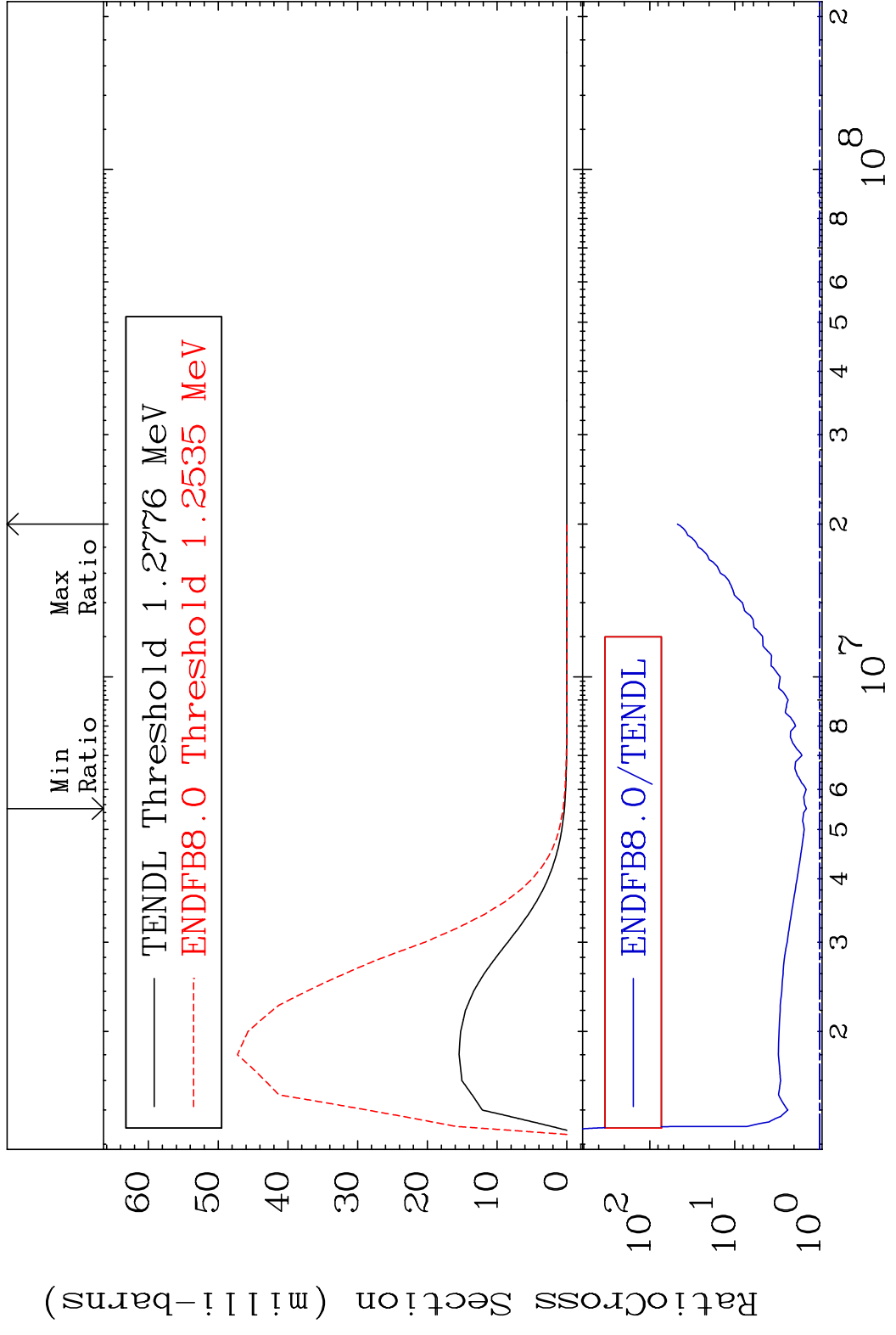
MAT 5628 MT= 78 (n, n') Level 56-Ba-131  
 Cross Section -2.410 To 1682. %



MAT 5628 MT= 79 (n, n') Level 56-Ba-131  
 Cross Section 0.000 To 4643. %



MAT 5628 MT= 80 (n, n') Level 56-Ba-131  
 Cross Section 42.67 To 4649. %

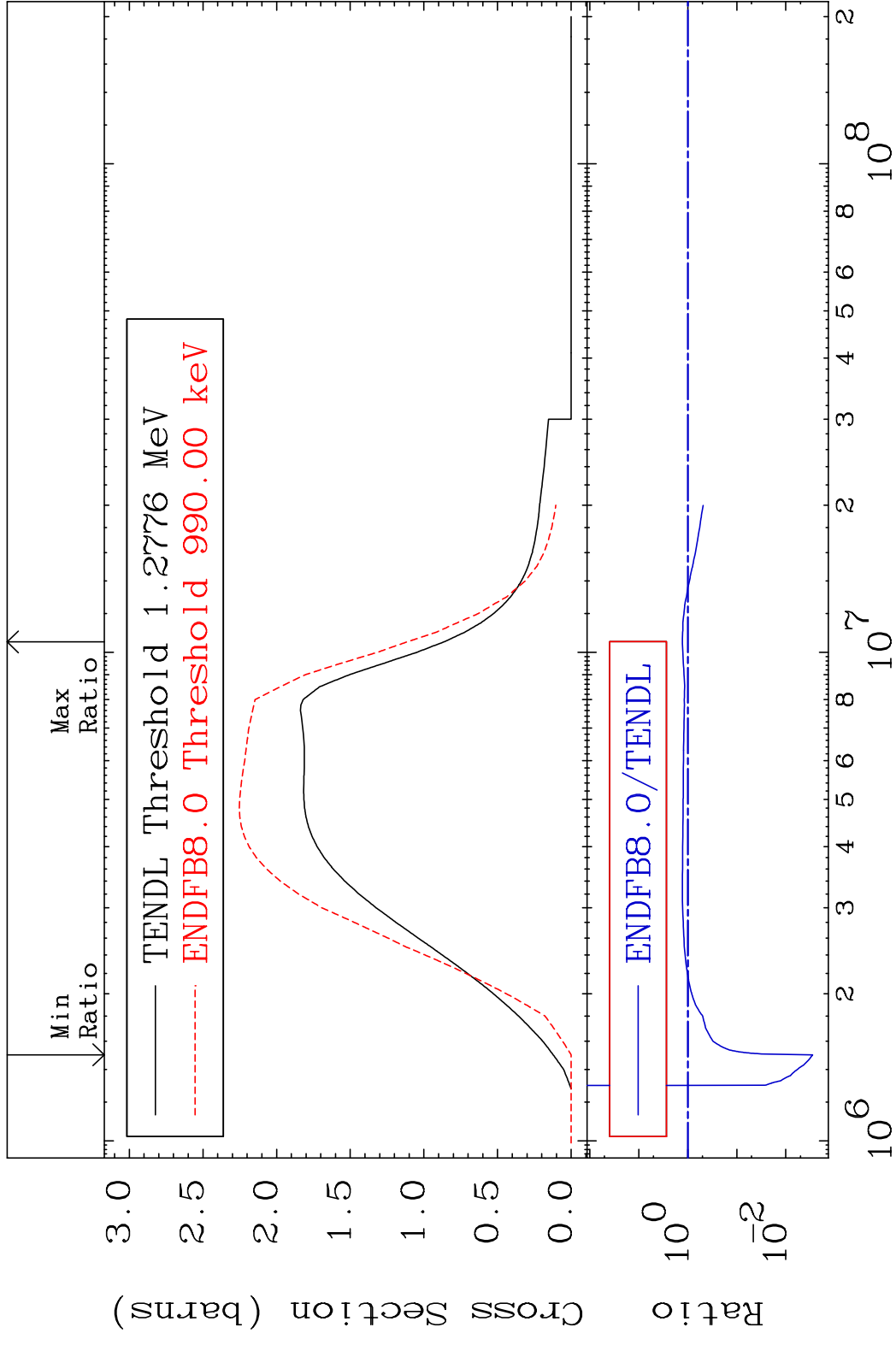


MAT 5628

(n, n') Continuum

56-Ba-131

Cross Section -99.72 To 29.00 %



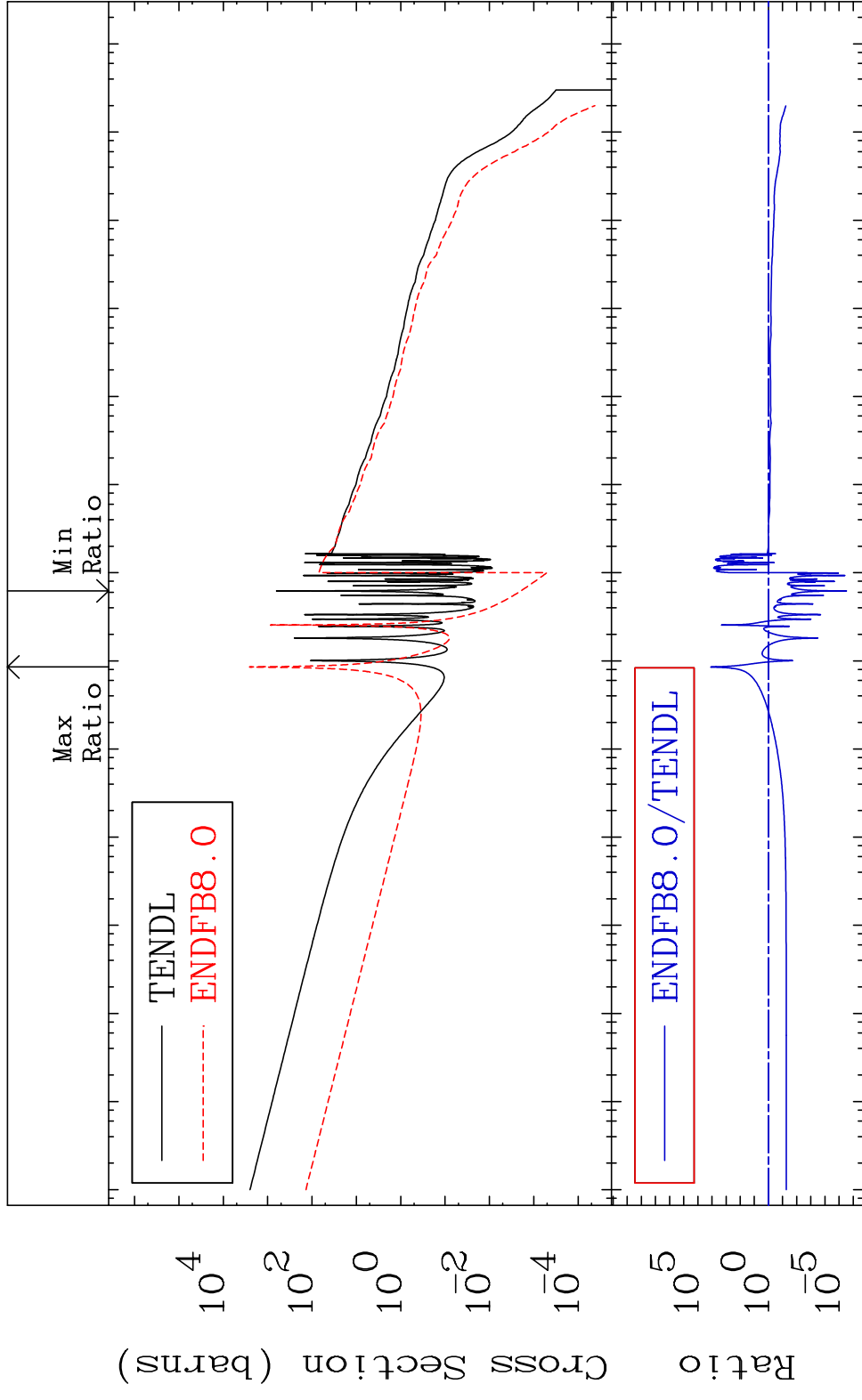
35

Incident Energy (eV)

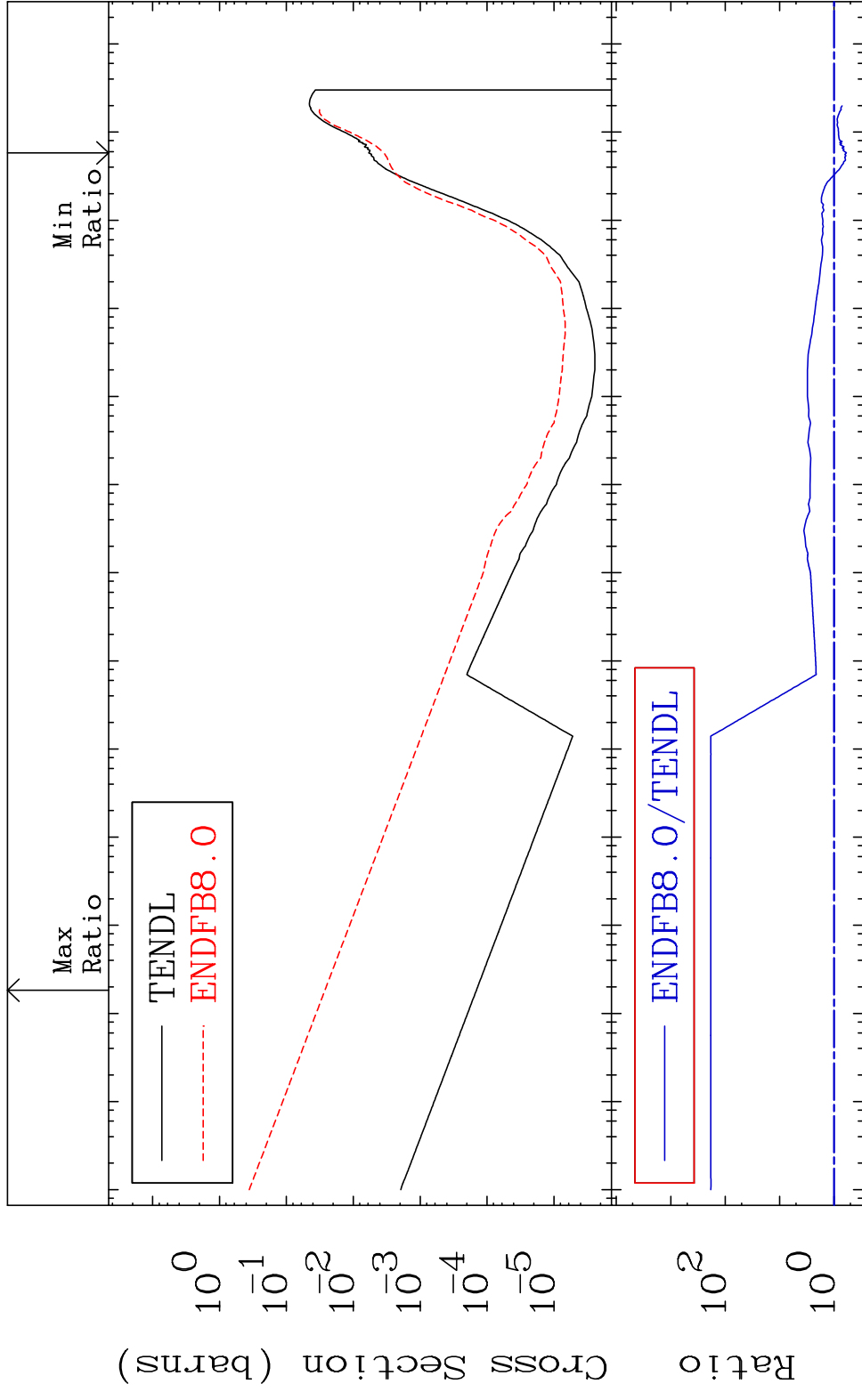
56-Ba-131

MAT 5628

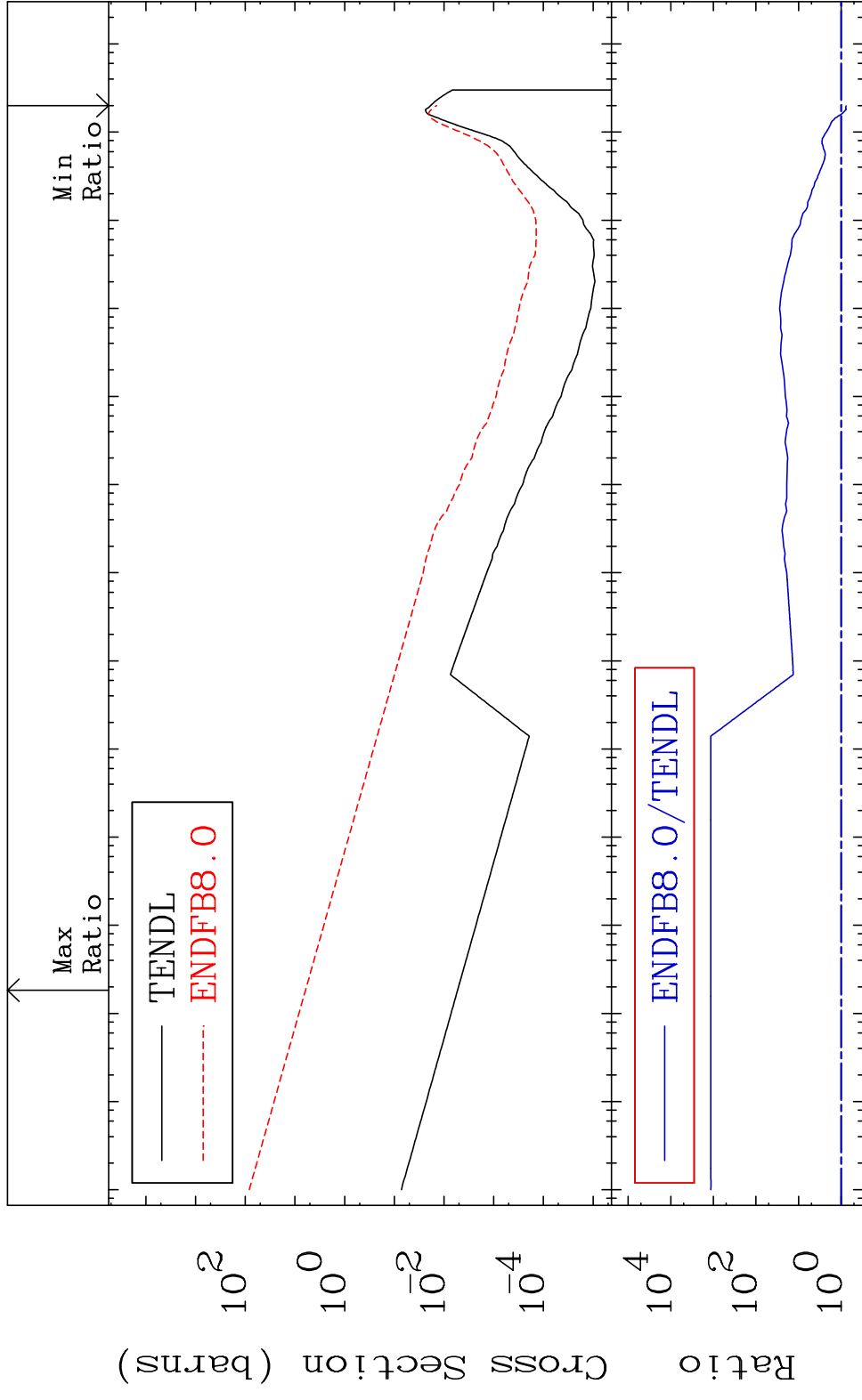
(n,  $\gamma$ )  
Cross Section -100.0 To 9999. %  
56-Ba-131



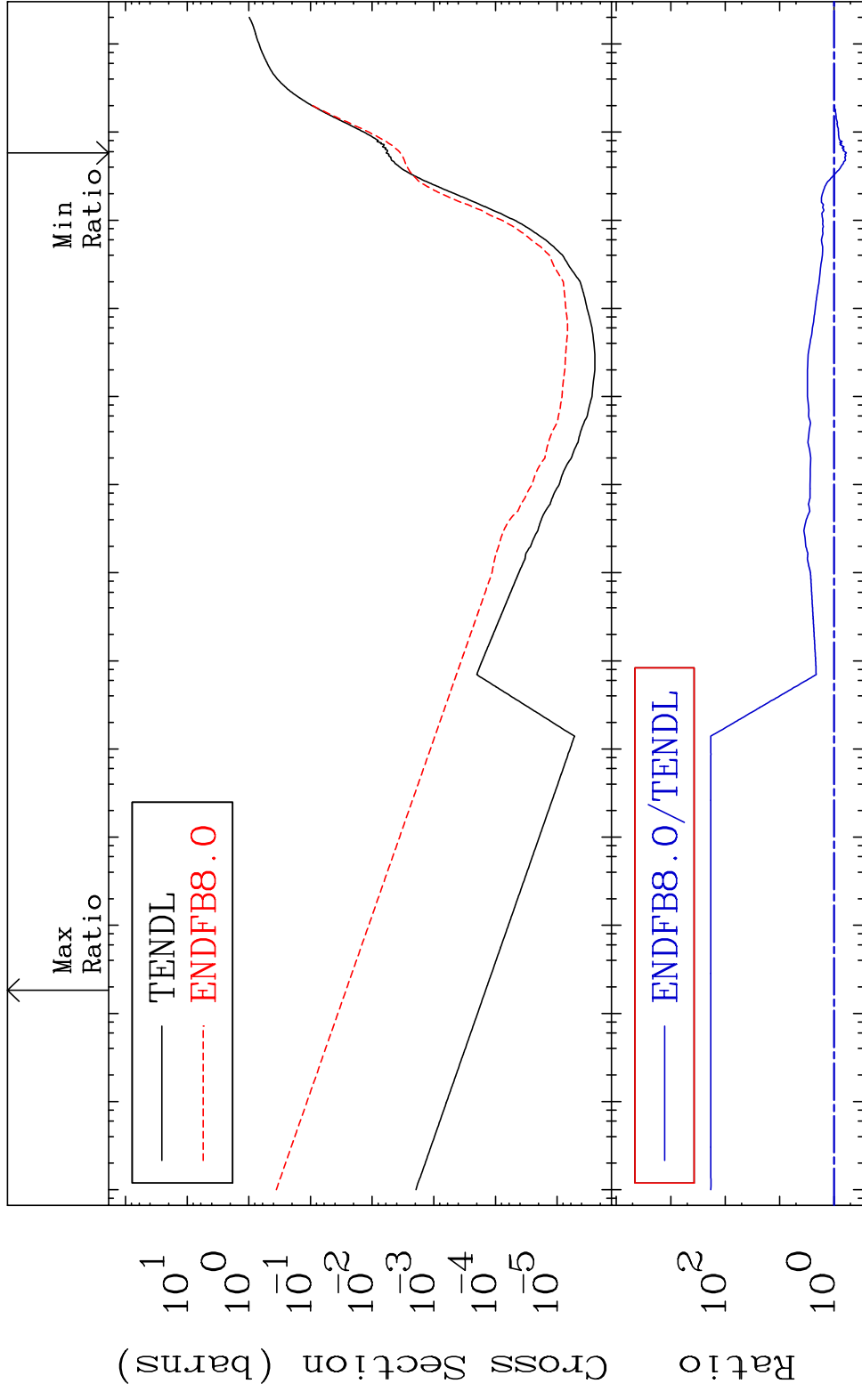
MAT 5628 (n,p) 56-Ba-131  
 Cross Section -40.41 To 9999. %



MAT 5628  $(n, \alpha)$  56-Ba-131  
 Cross Section -24.41 To 9999. %



MAT 5628 Hydrogen Production 56-Ba-131  
 Cross Section -40.41 To 9999. %



39 Incident Energy (eV) 56-Ba-131

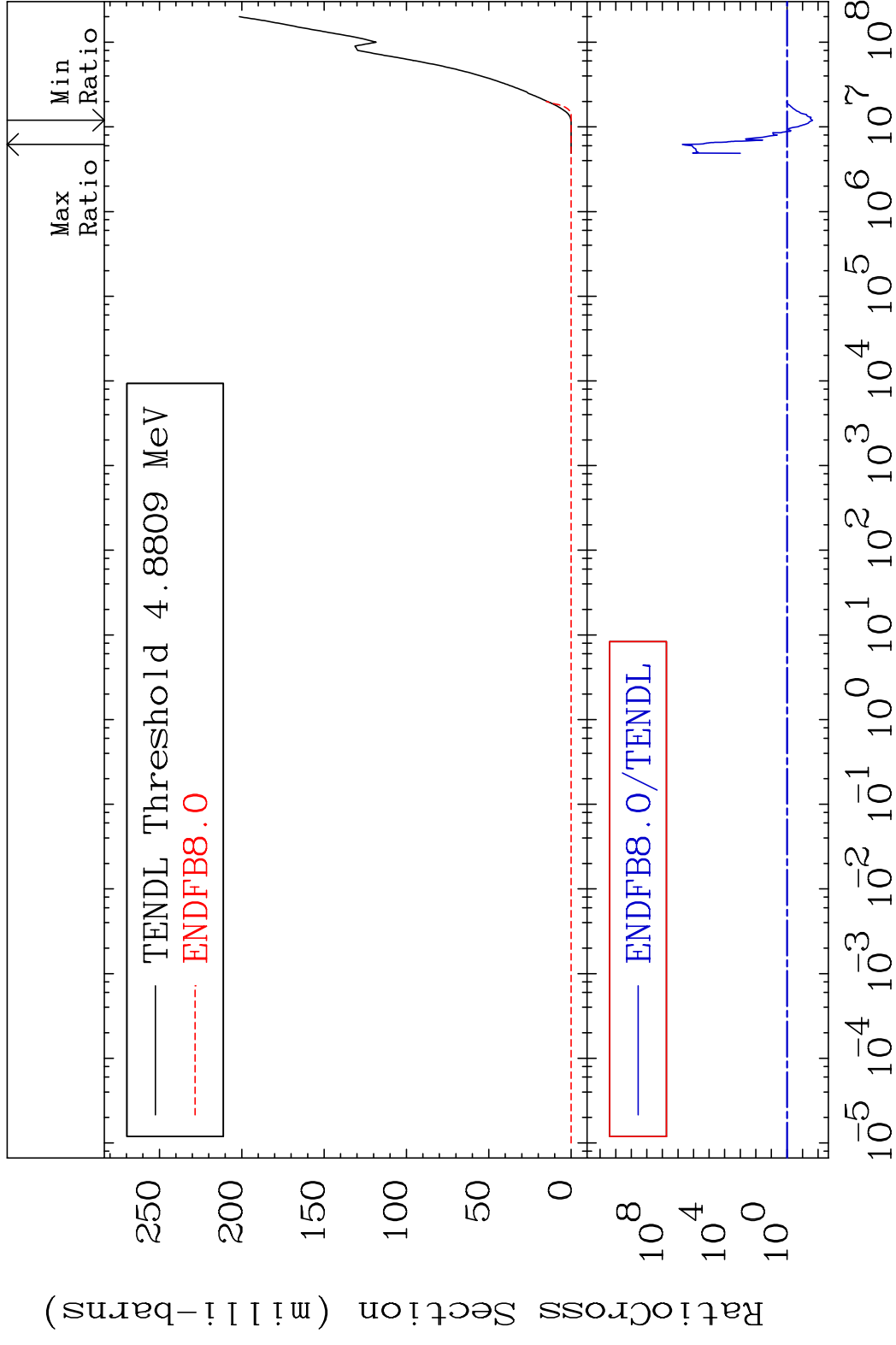


MAT 5628

Deuterium Production

56-Ba-131

Cross Section -97.73 To 9999. %



40

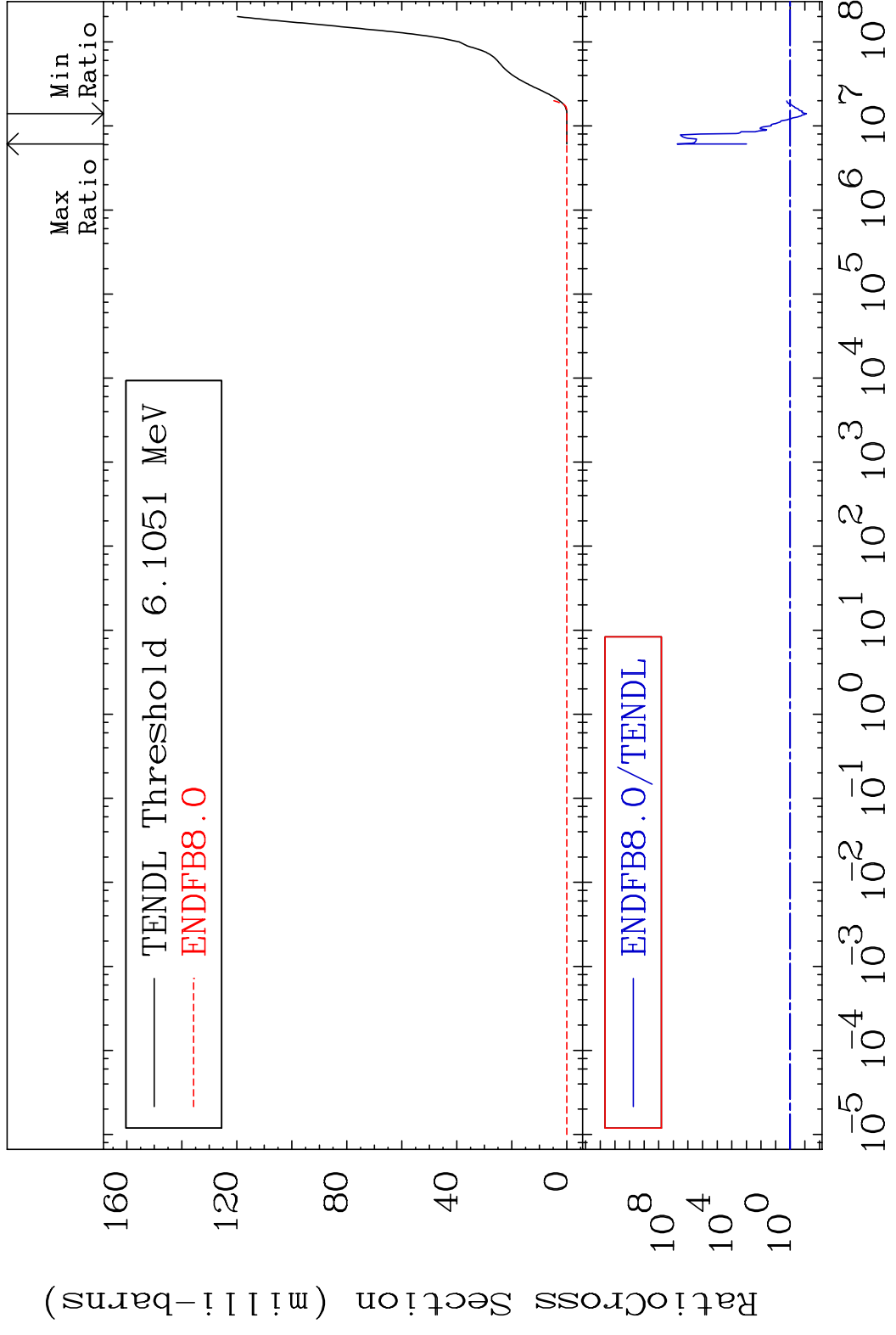
Incident Energy (eV)

56-Ba-131

MAT 5628

Tritium Production  
Cross Section -92.16 To 9999. %

56-Ba-131

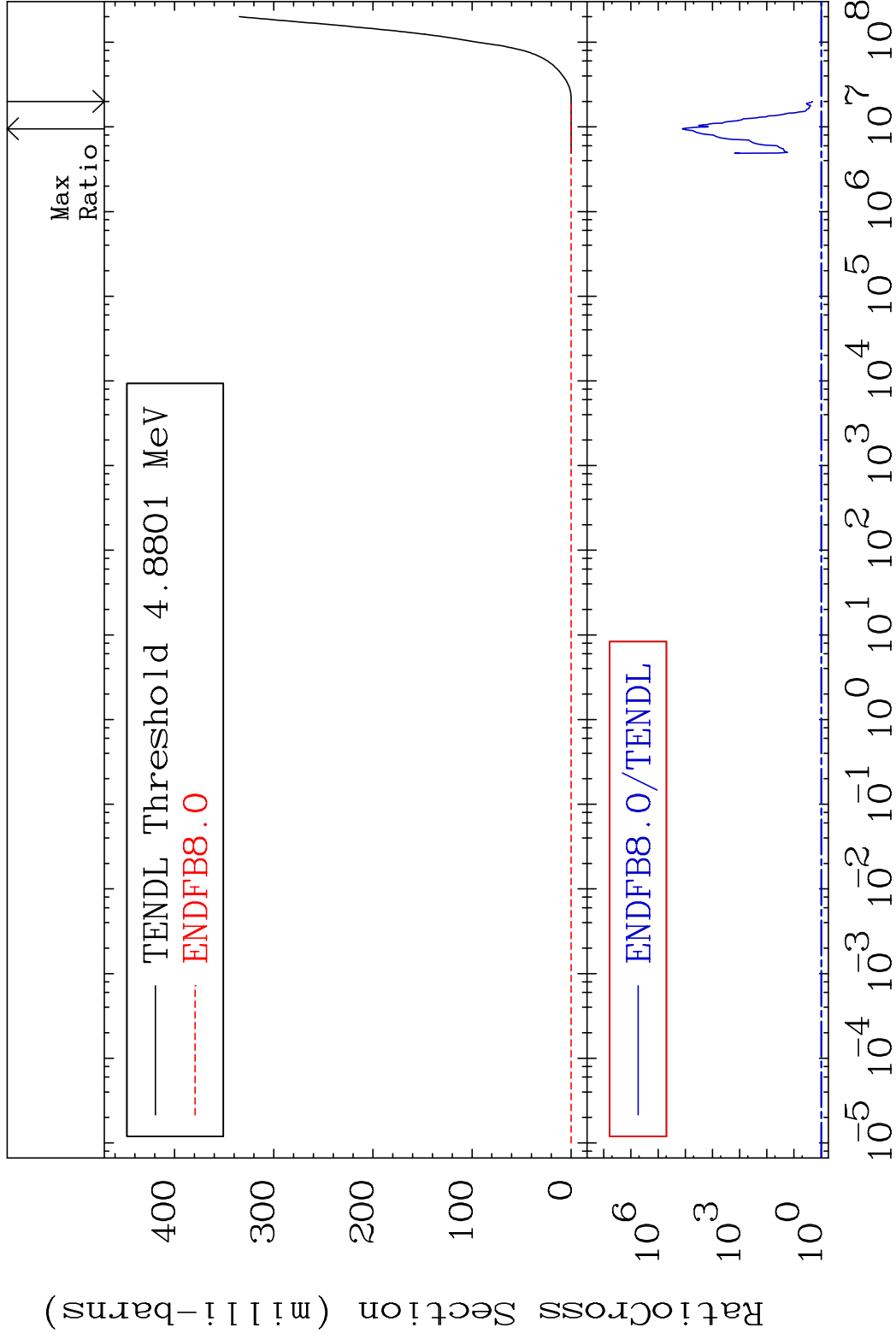


MAT 5628

He-3 Production

56-Ba-131

Cross Section 108.0 To 9999. %

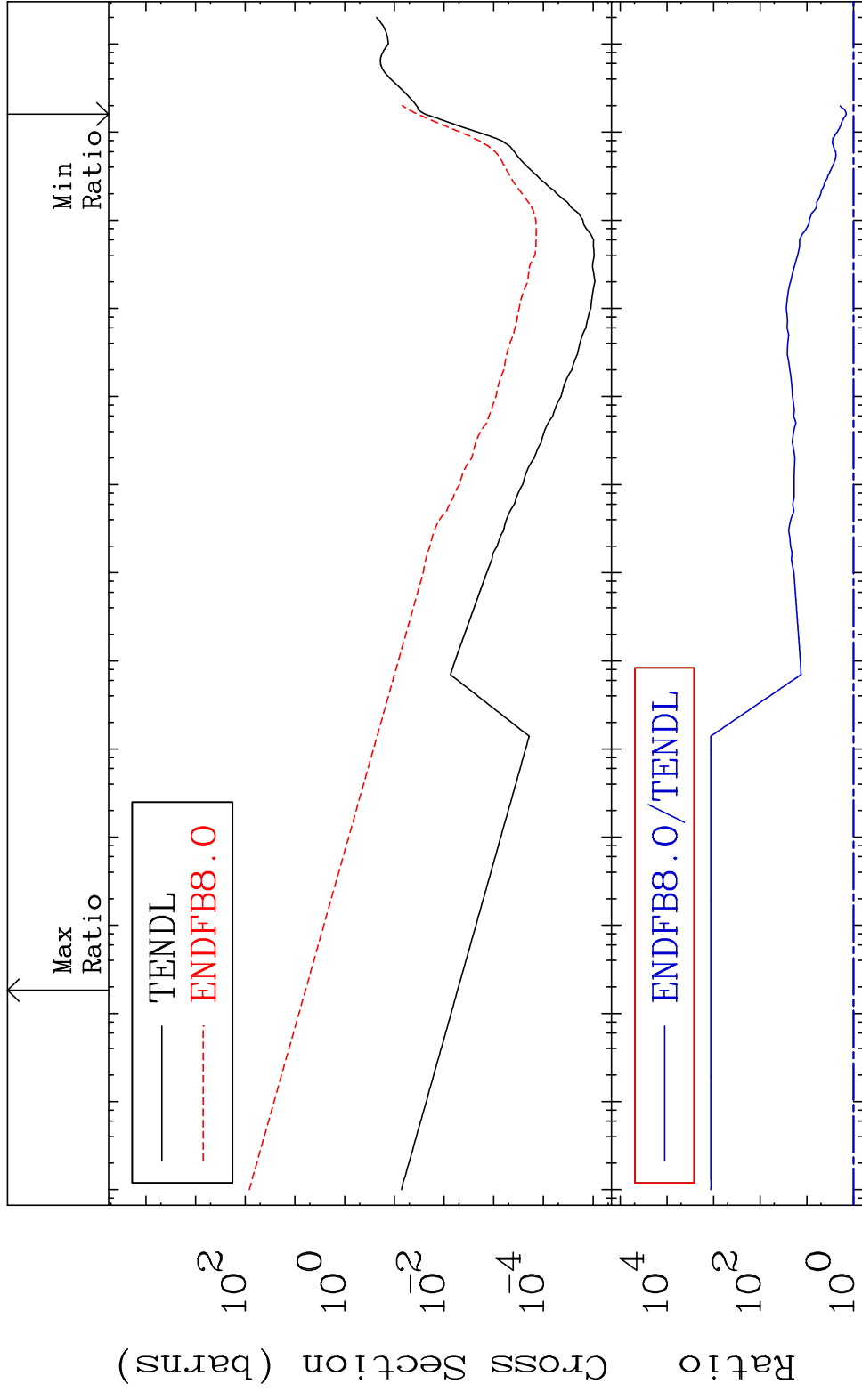


42

Incident Energy (eV)

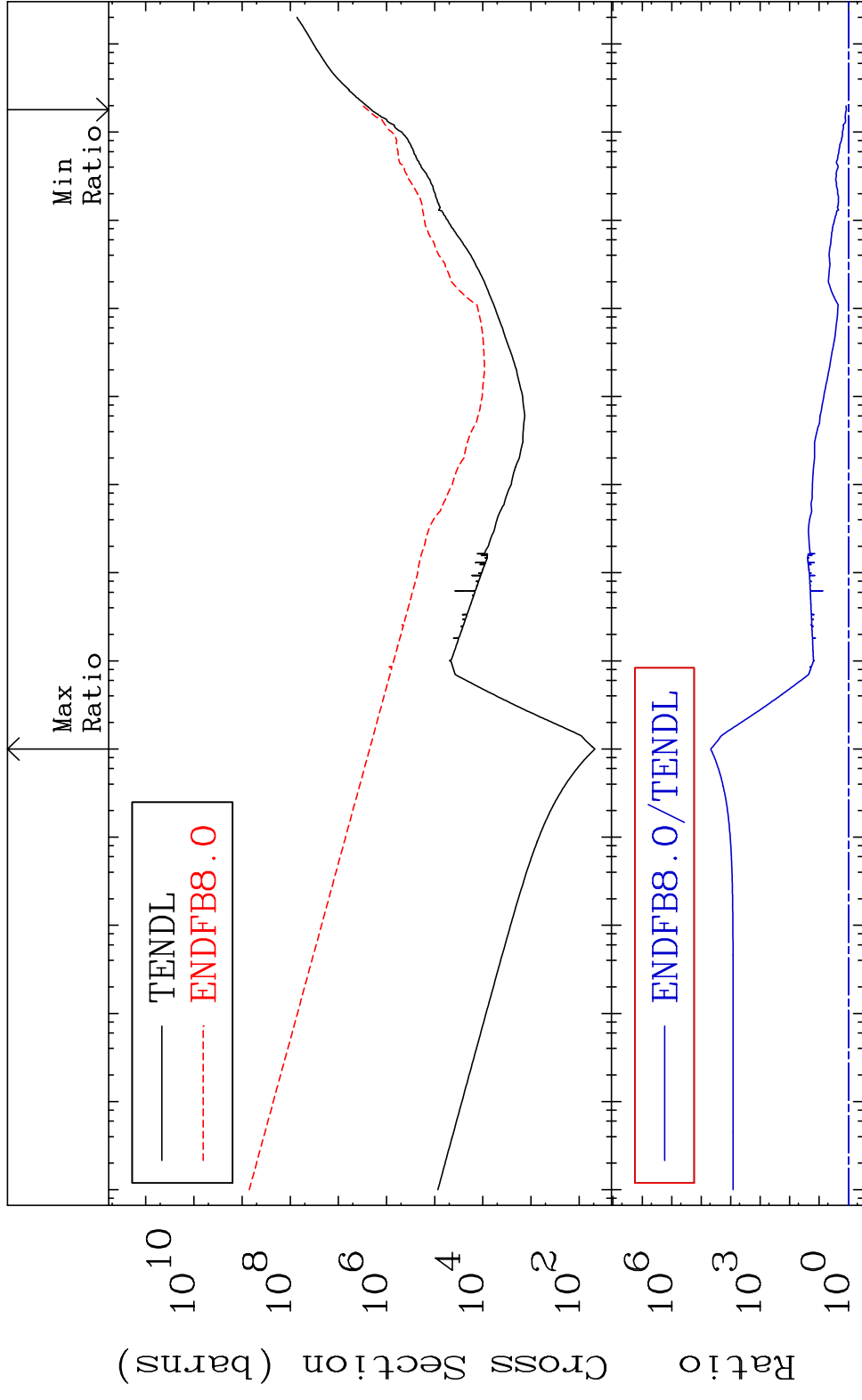
56-Ba-131

MAT 5628 He-4 Production 56-Ba-131  
 Cross Section 42.26 To 9999. %



43 Incident Energy (eV) 56-Ba-131

MAT 5628 Kerma total (eV-barns) 56-Ba-131  
 Cross Section 18.53 To 9999. %

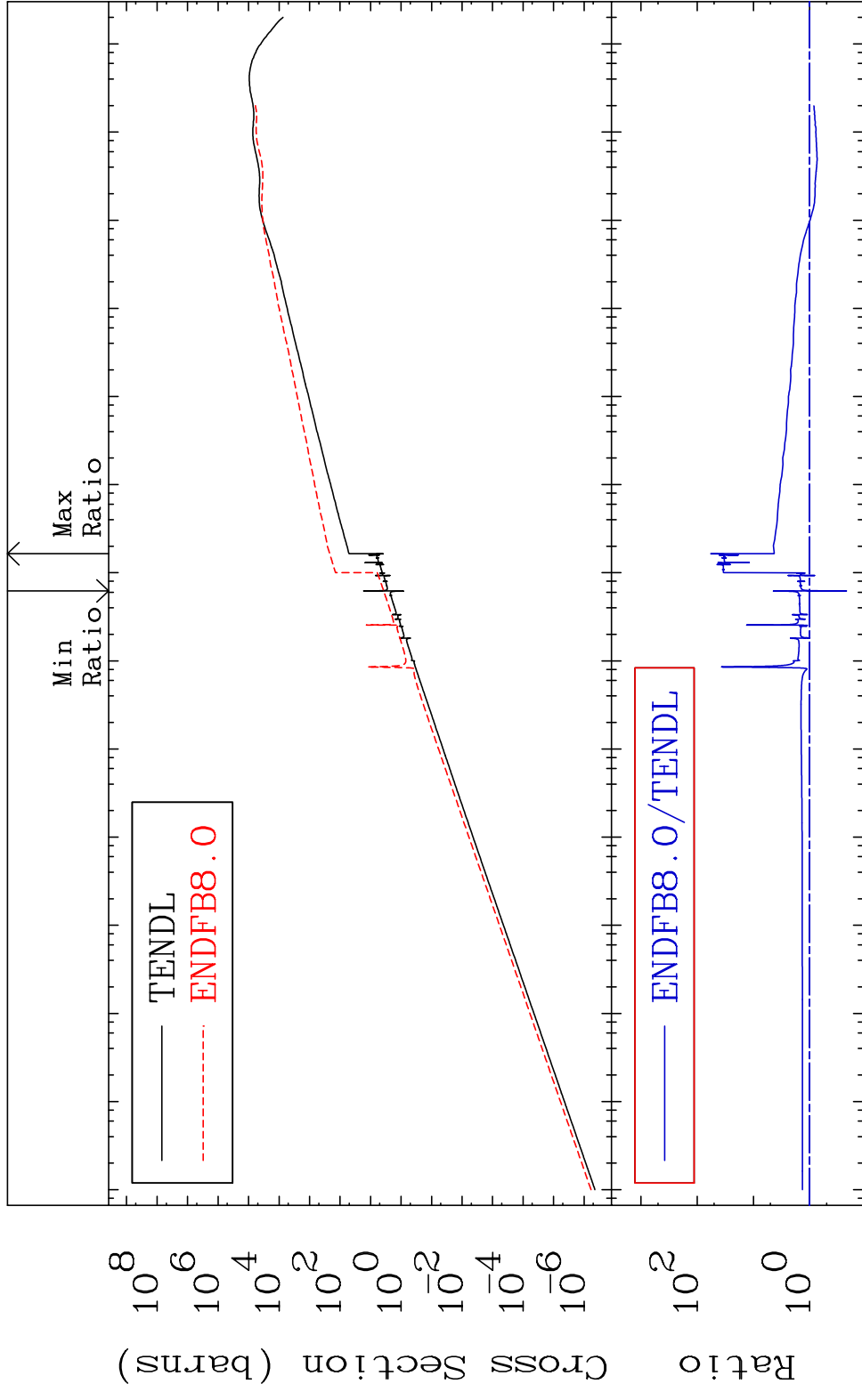


44 Incident Energy (eV) 56-Ba-131

MAT 5628

Kerma elastic  
Cross Section

56-Ba-131  
-77.74 To 5657. %

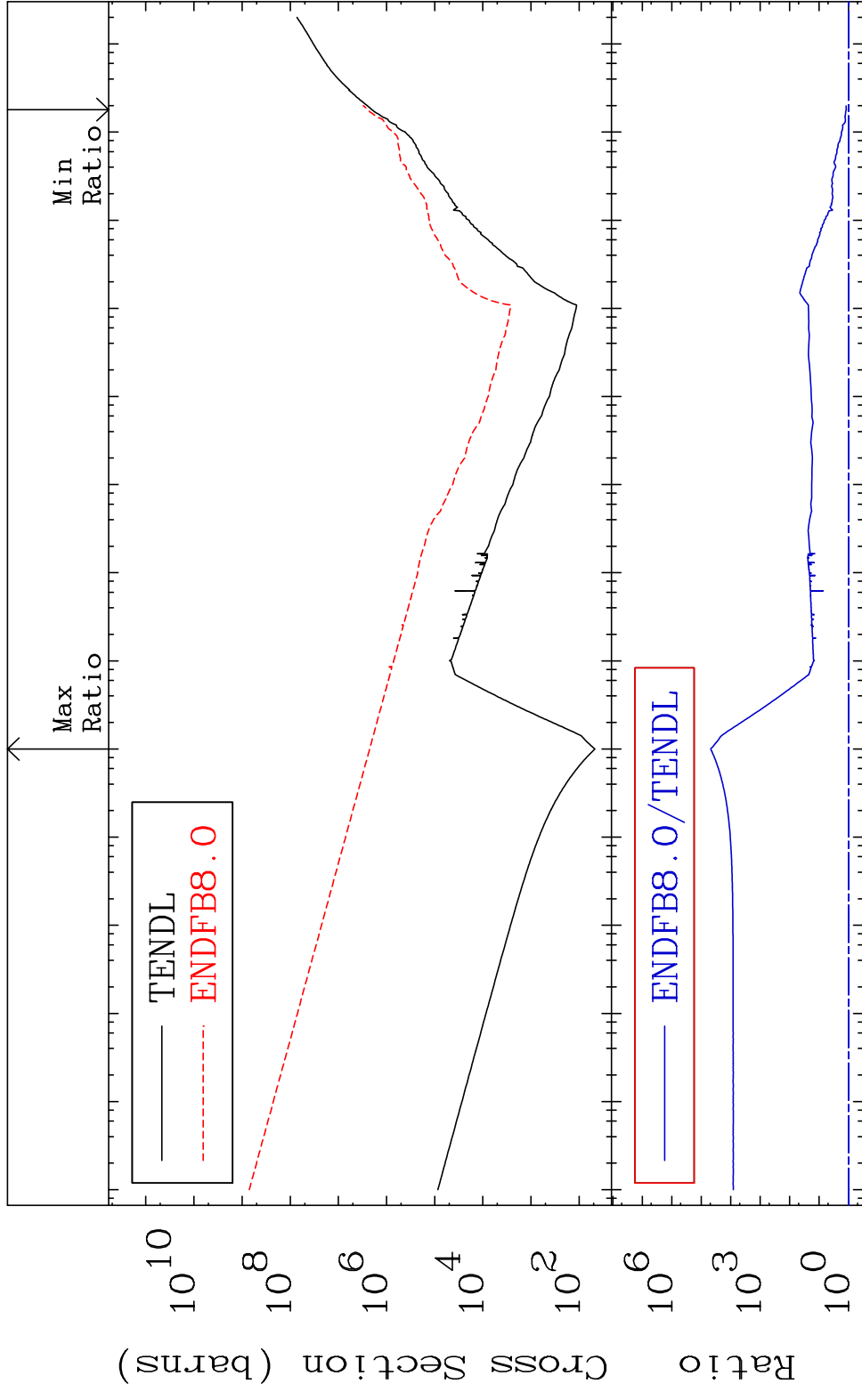


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Incident Energy (eV)

56-Ba-131

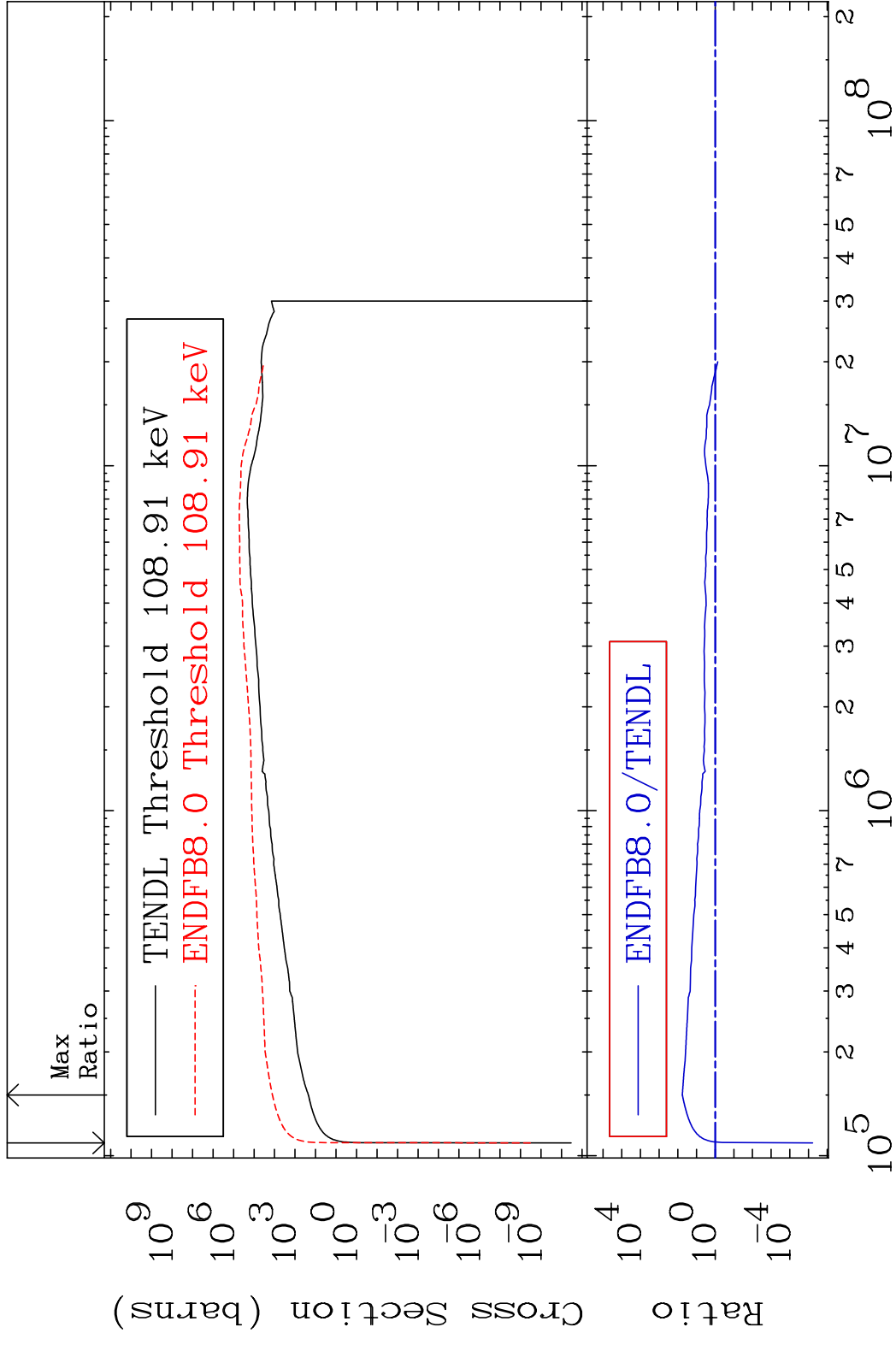
MAT 5628 Kerma non-elastic (all but mt2) 56-Ba-131  
 Cross Section 19.72 To 9999. %



Ratio  
 Cross Section (barns)  
 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>6</sup>  
 10<sup>3</sup>  
 10<sup>0</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>

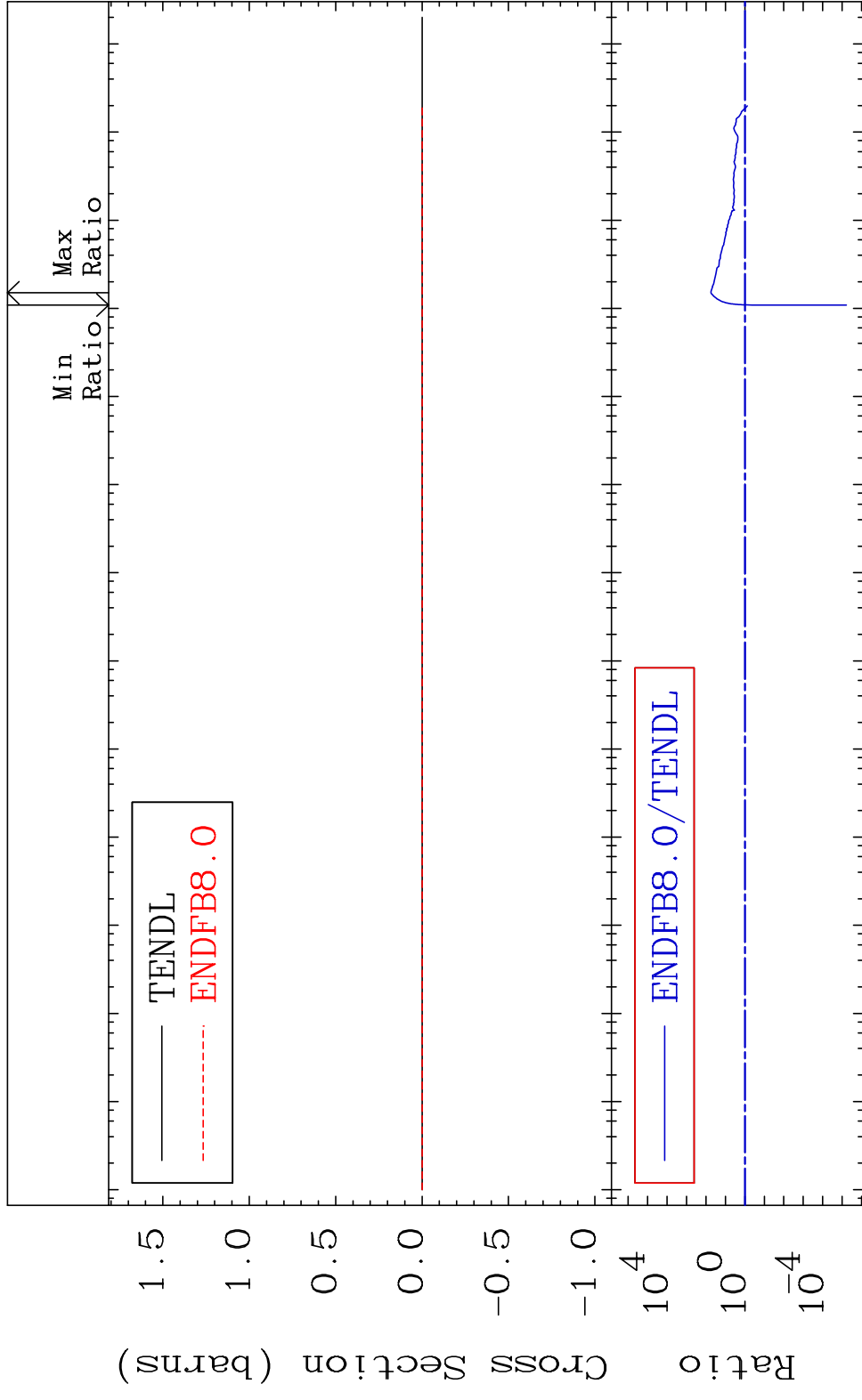
46 Incident Energy (eV) 56-Ba-131

MAT 5628 Kerma inelastic (mt51-91) 56-Ba-131  
 Cross Section -100.0 To 5610. %





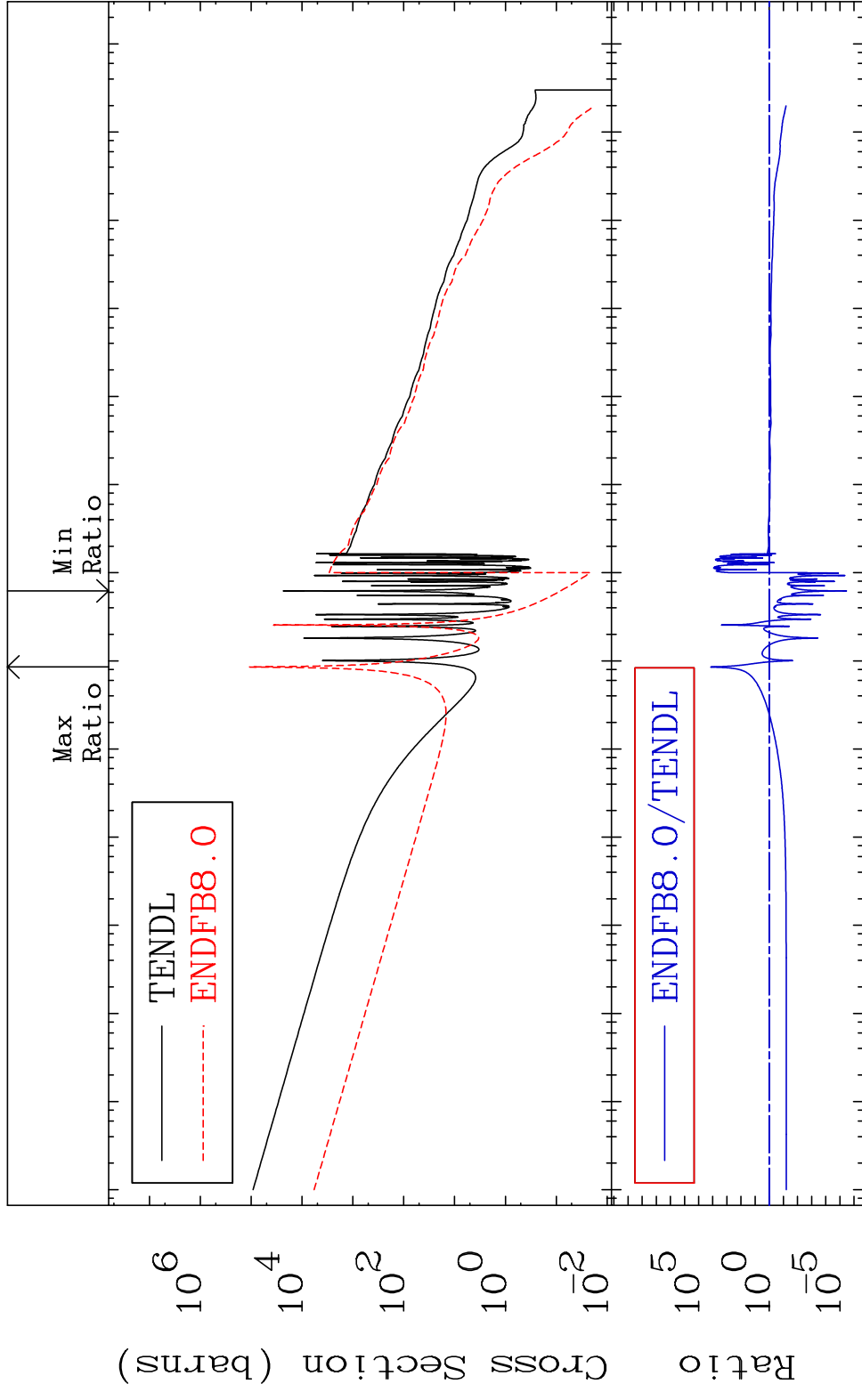
MAT 5628 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-131  
 Cross Section -100.0 To 5610. %



MAT 5628

Kerma capture (mt102) 56-Ba-131

Cross Section -100.0 To 9999. %

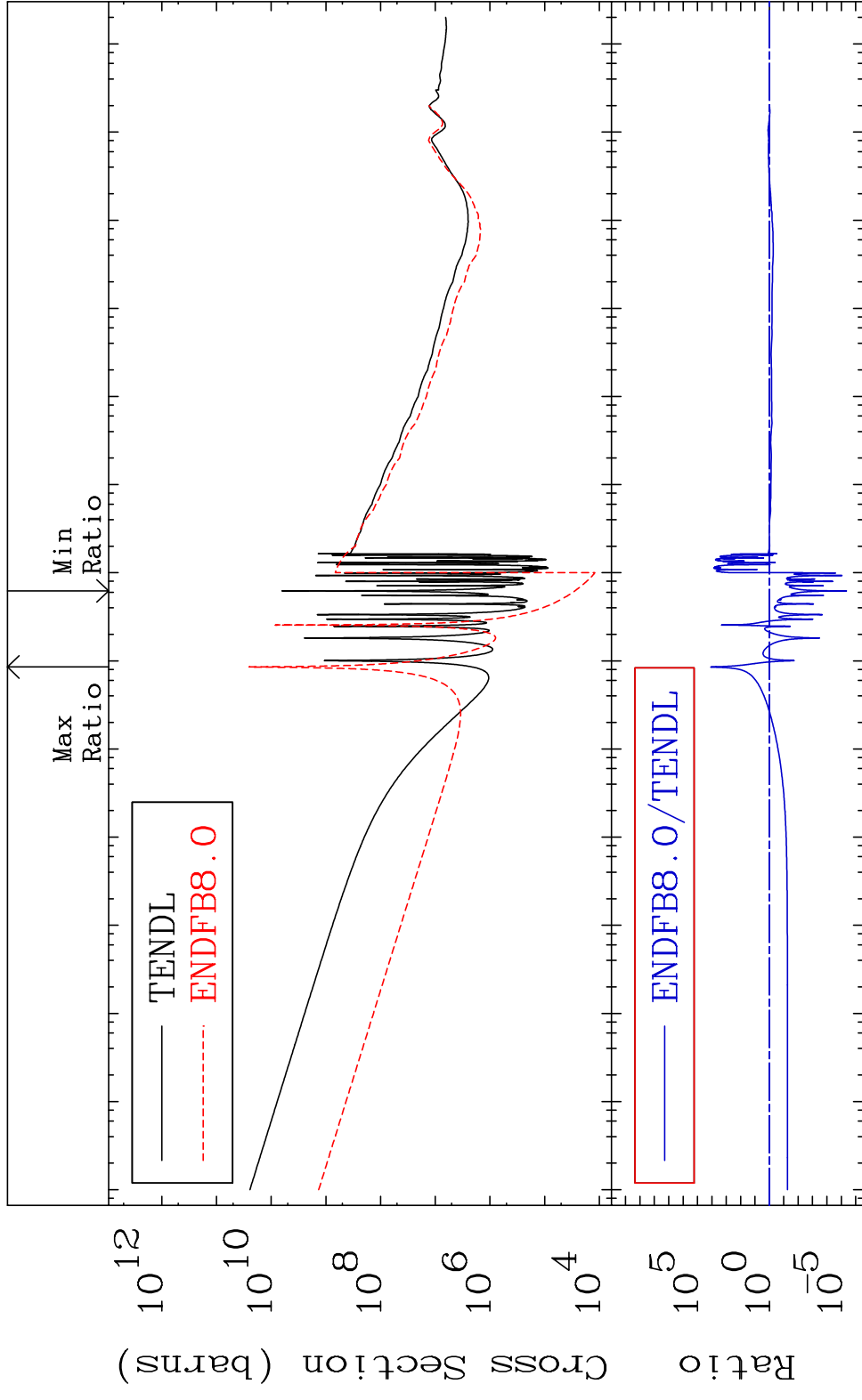


49

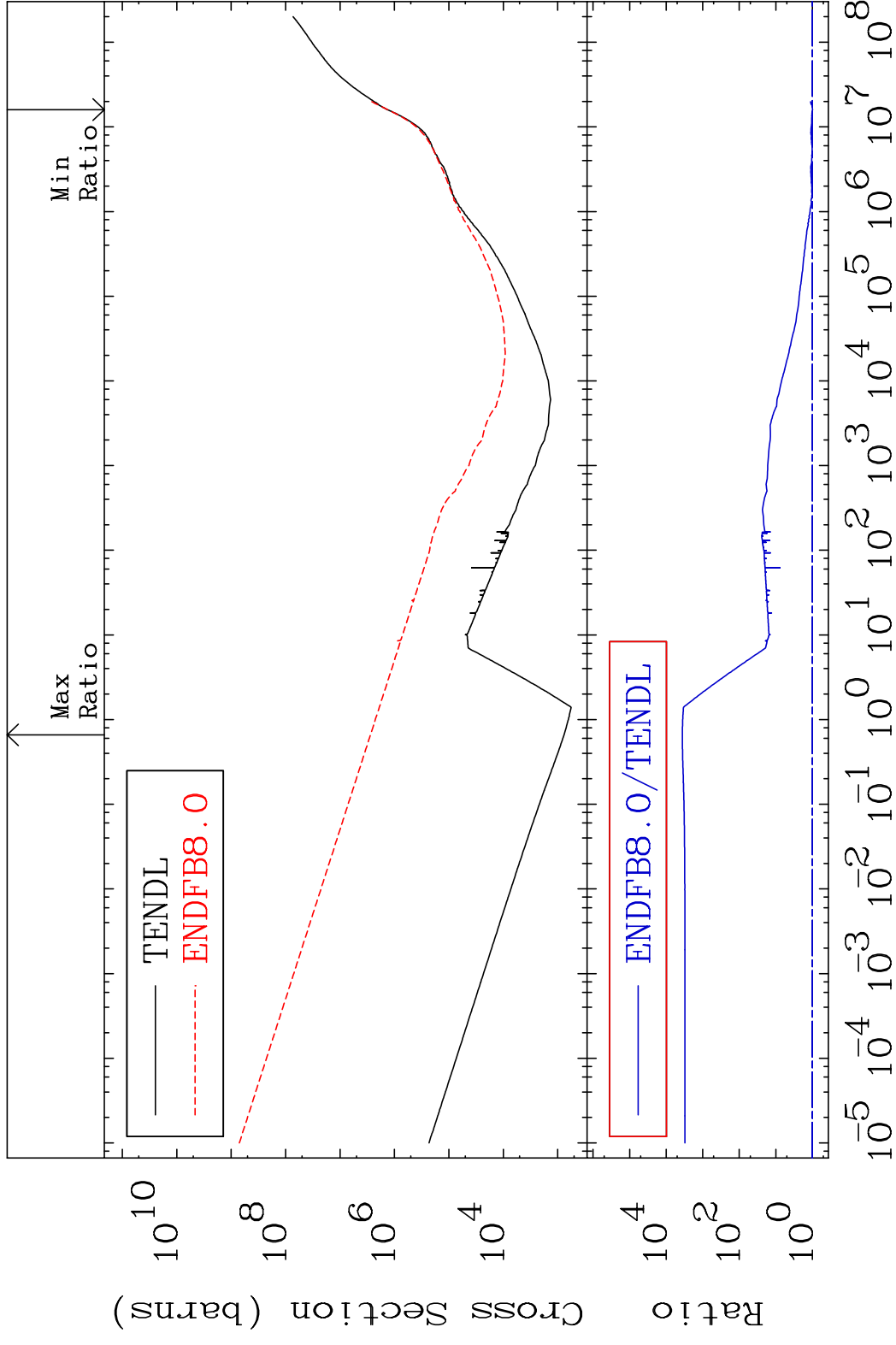
Incident Energy (eV)

56-Ba-131

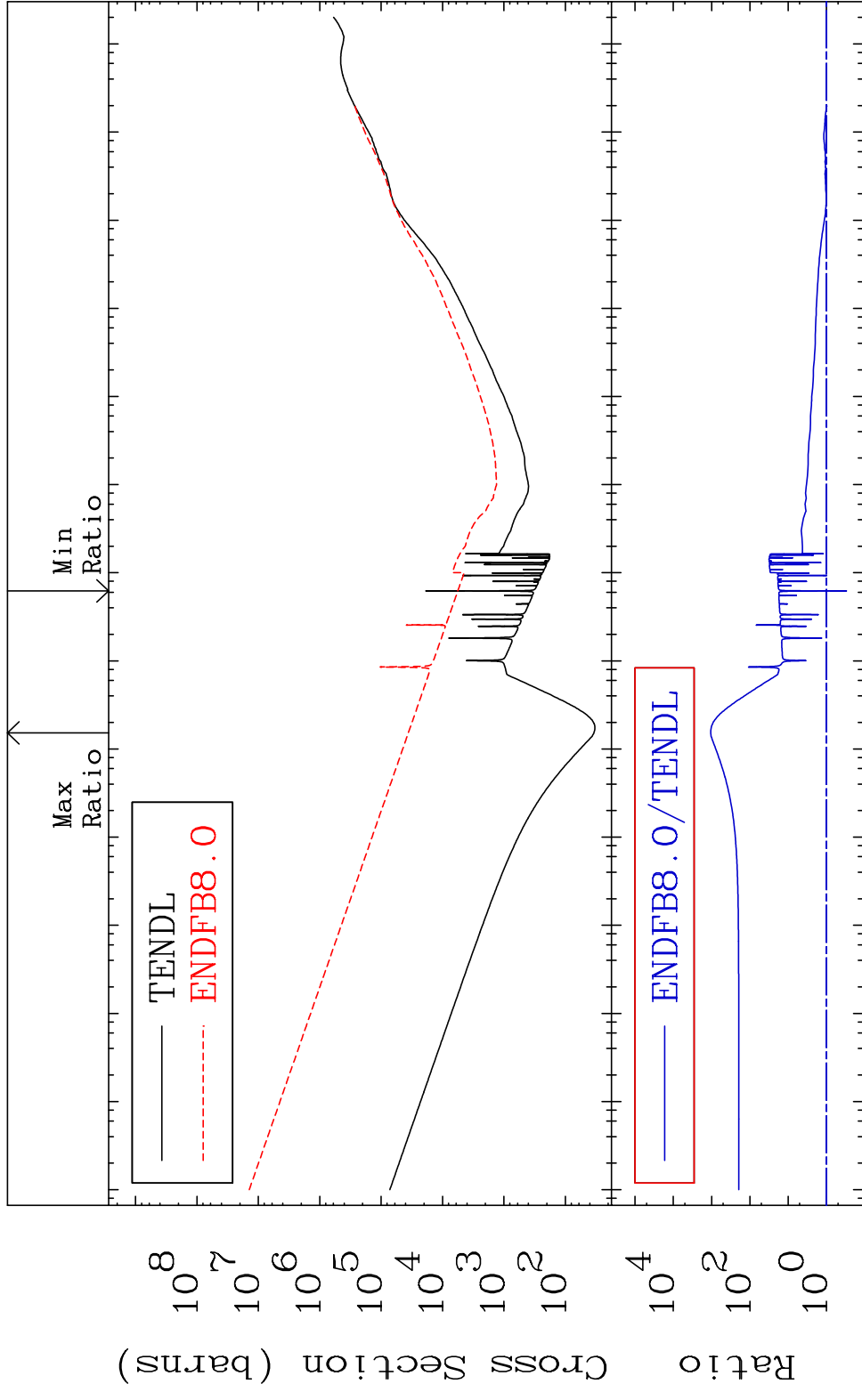
MAT 5628 Total photon (eV-barns) 56-Ba-131  
 Cross Section -100.0 To 9999. %



MAT 5628 Total kinematic kerma (high limit) 56-Ba-131  
 Cross Section -1.279 To 9999. %



MAT 5628      Dpa total (eV-barns)      56-Ba-131  
 Cross Section      -69.777 To 9999. %



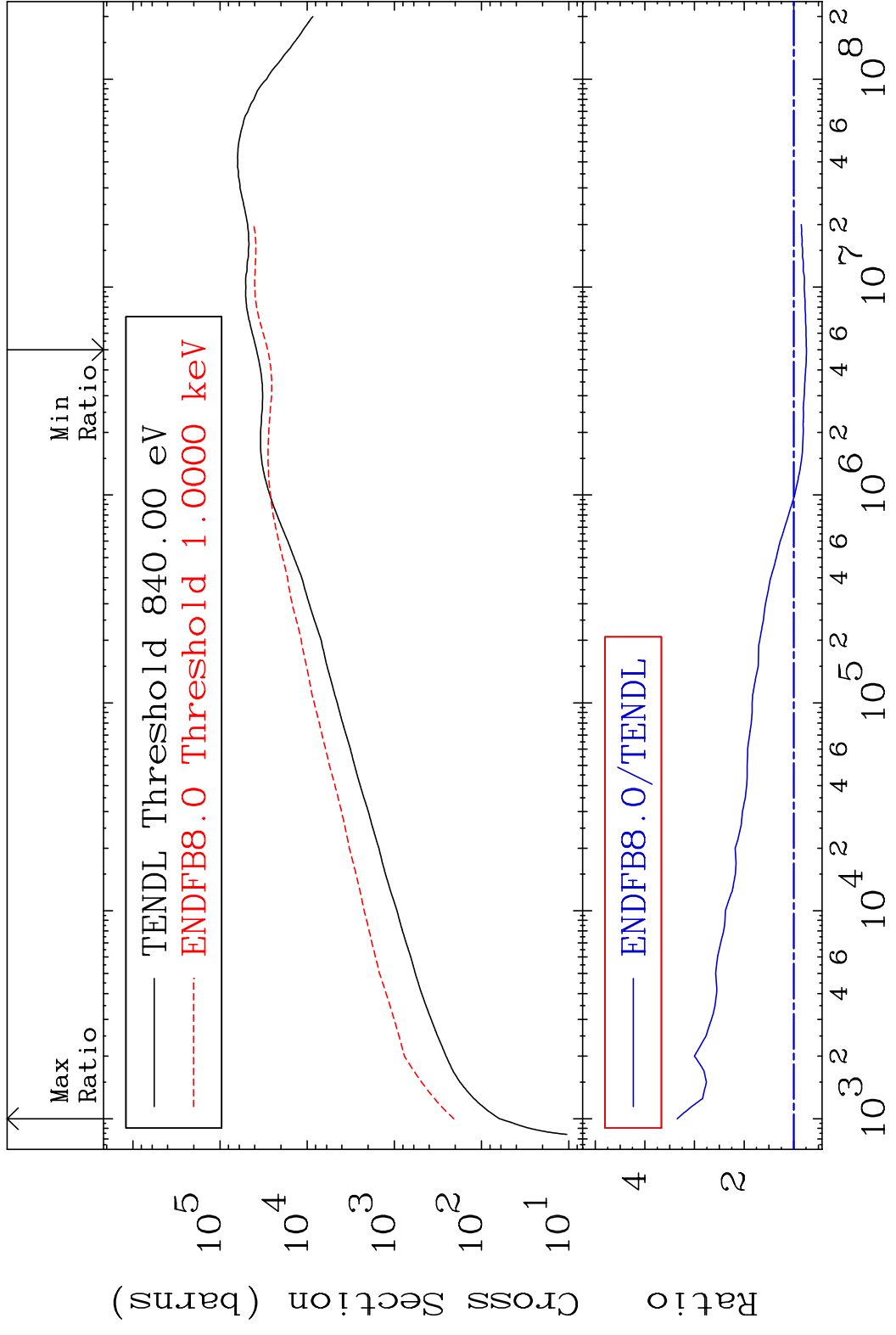
MAT 5628

Dpa elastic (mt2)

56-Ba-131

Cross Section

-25.60 To 234.9 %

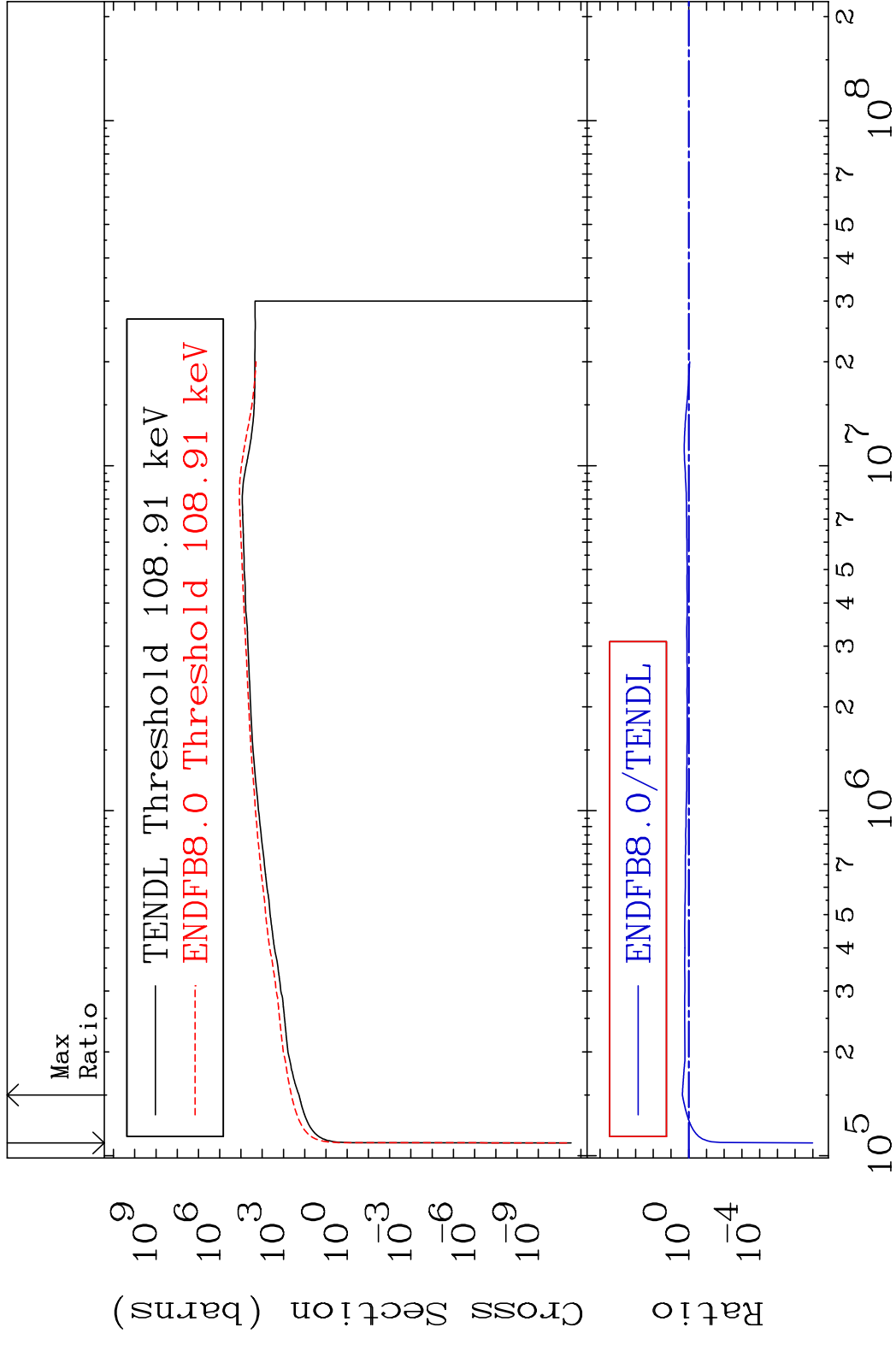


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Incident Energy (eV)

56-Ba-131

MAT 5628 Dpa inelastic (mt51-91) 56-Ba-131  
 Cross Section -100.0 To 128.8 %



MAT 5628 Dpa disappearance (mt102 -120) 56-Ba-131  
 Cross Section -69.77 To 9999. %

