

Program Complot  
(Version 2018-1)

by

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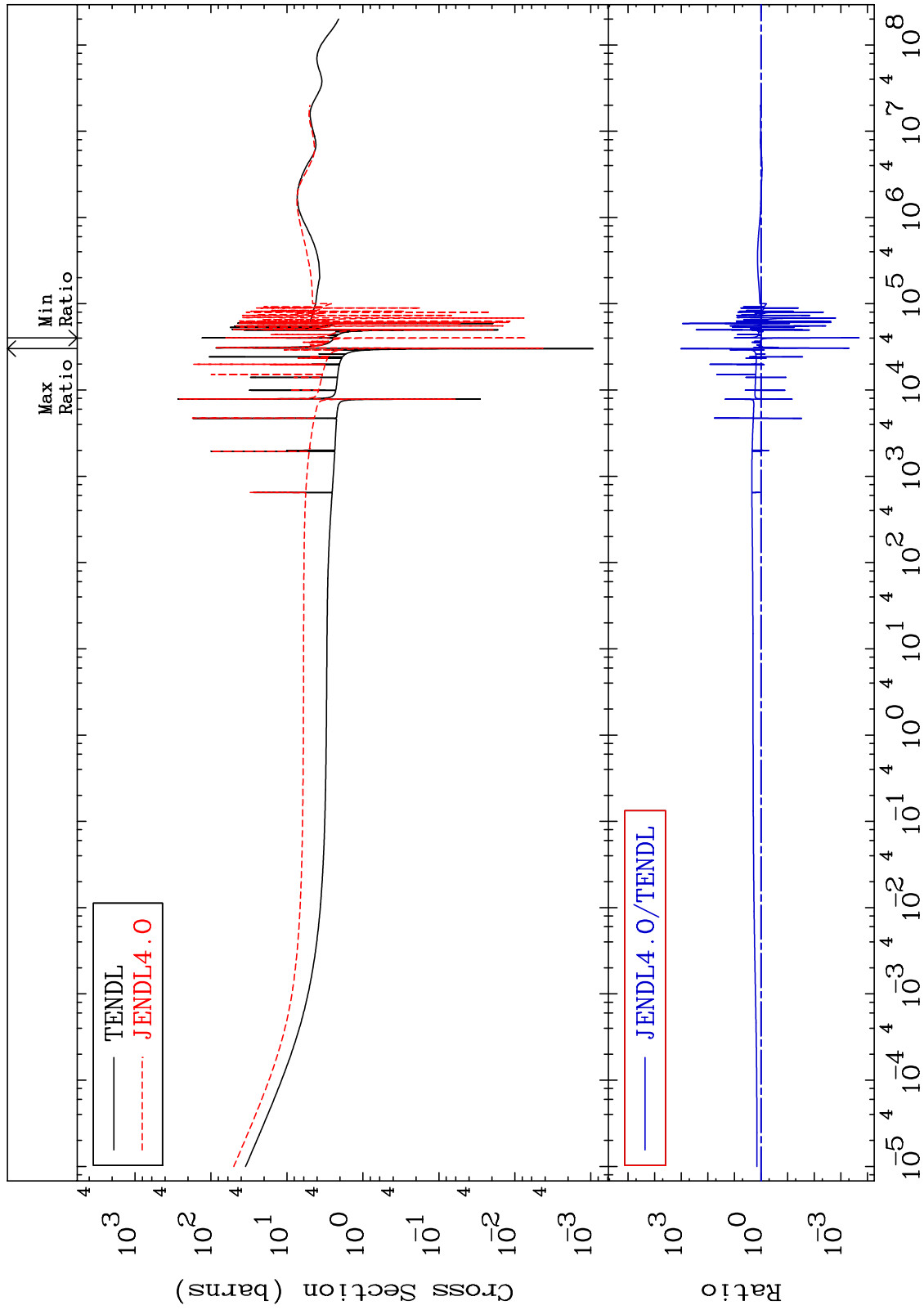
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5649

Total  
Cross Section

56-Ba-138  
-99.98 To 9999. %



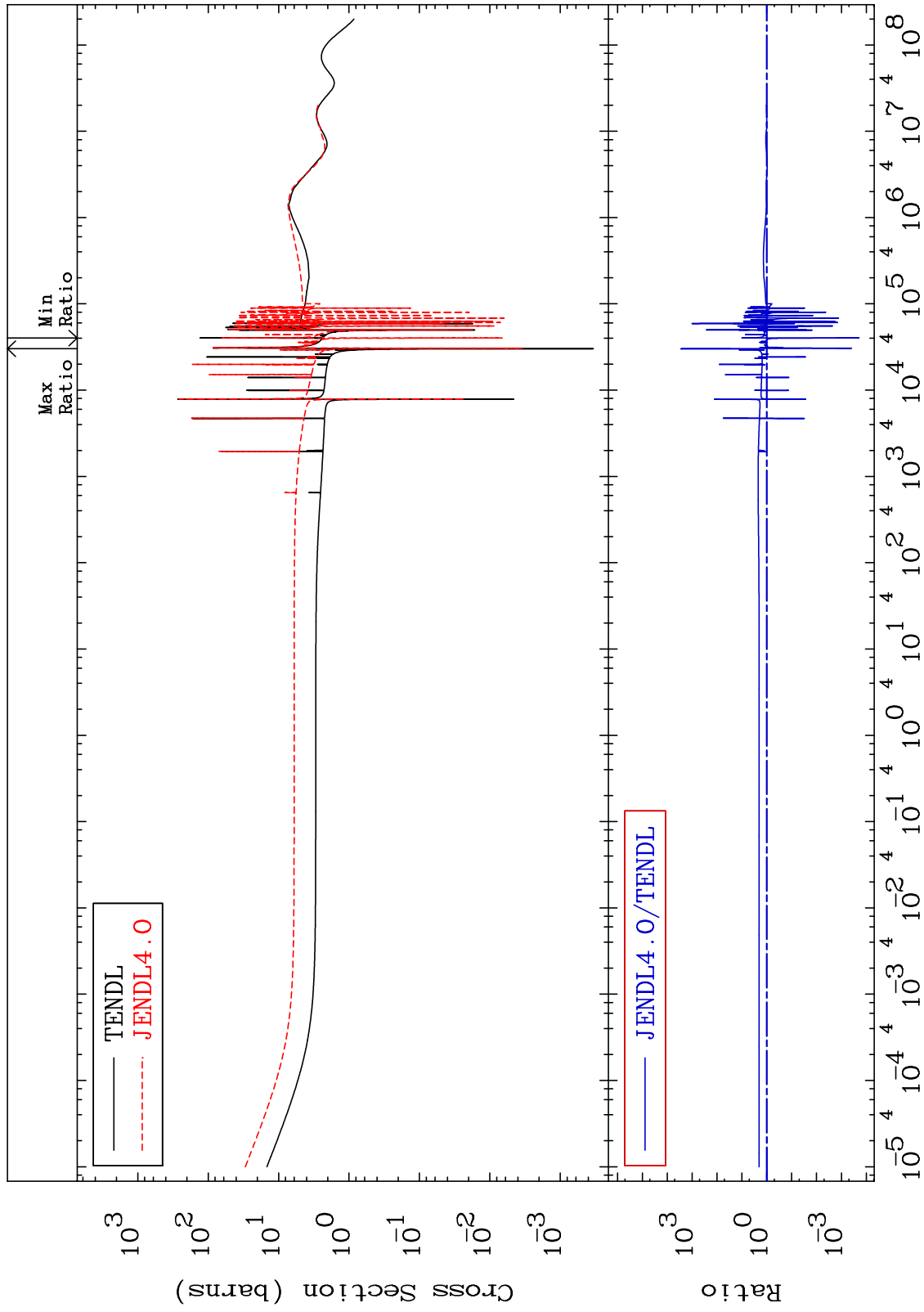
Incident Energy (eV)

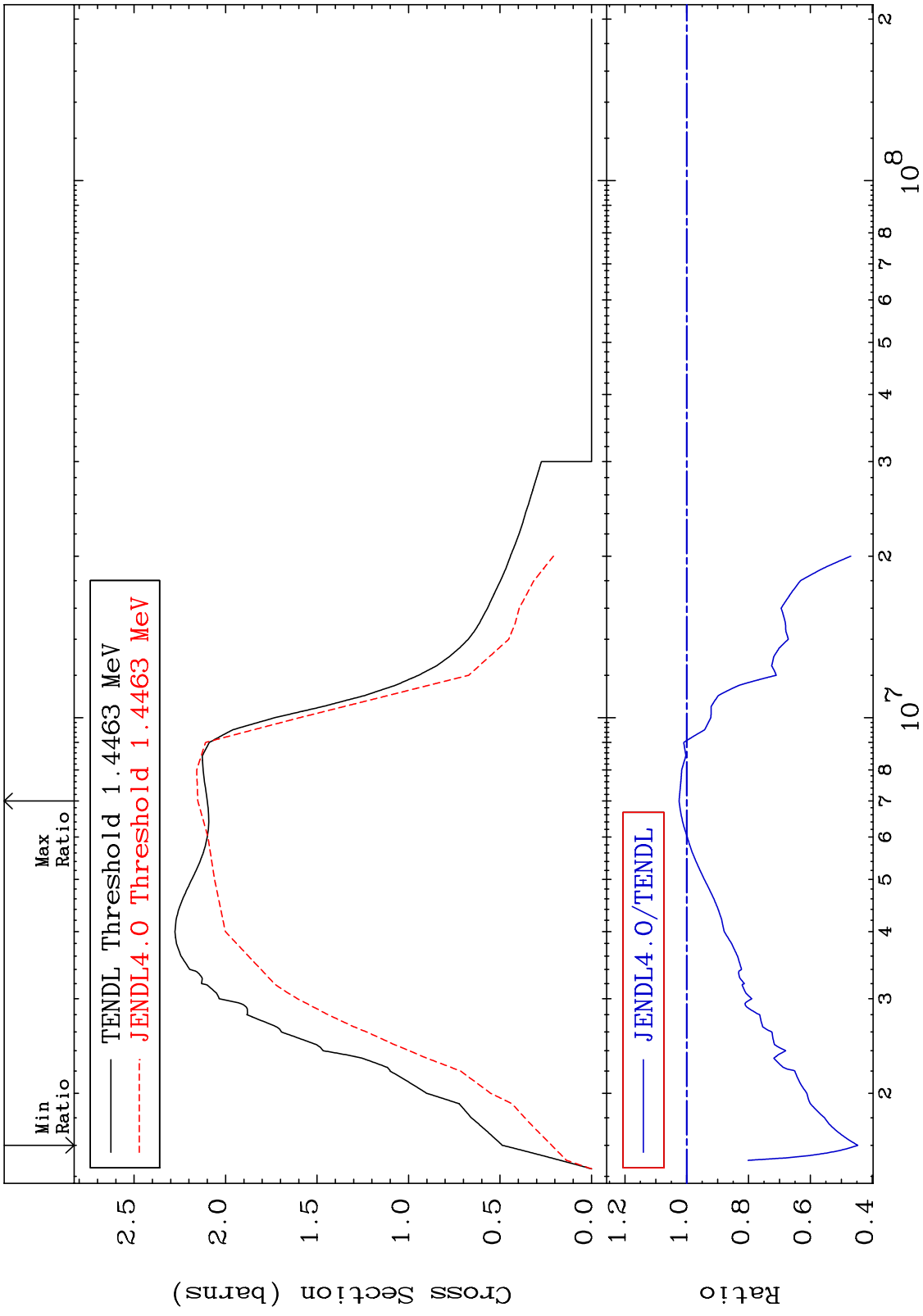
56-Ba-138

MAT 5649

Elastic  
Cross Section

56-Ba-138  
-99.98 To 9999. %





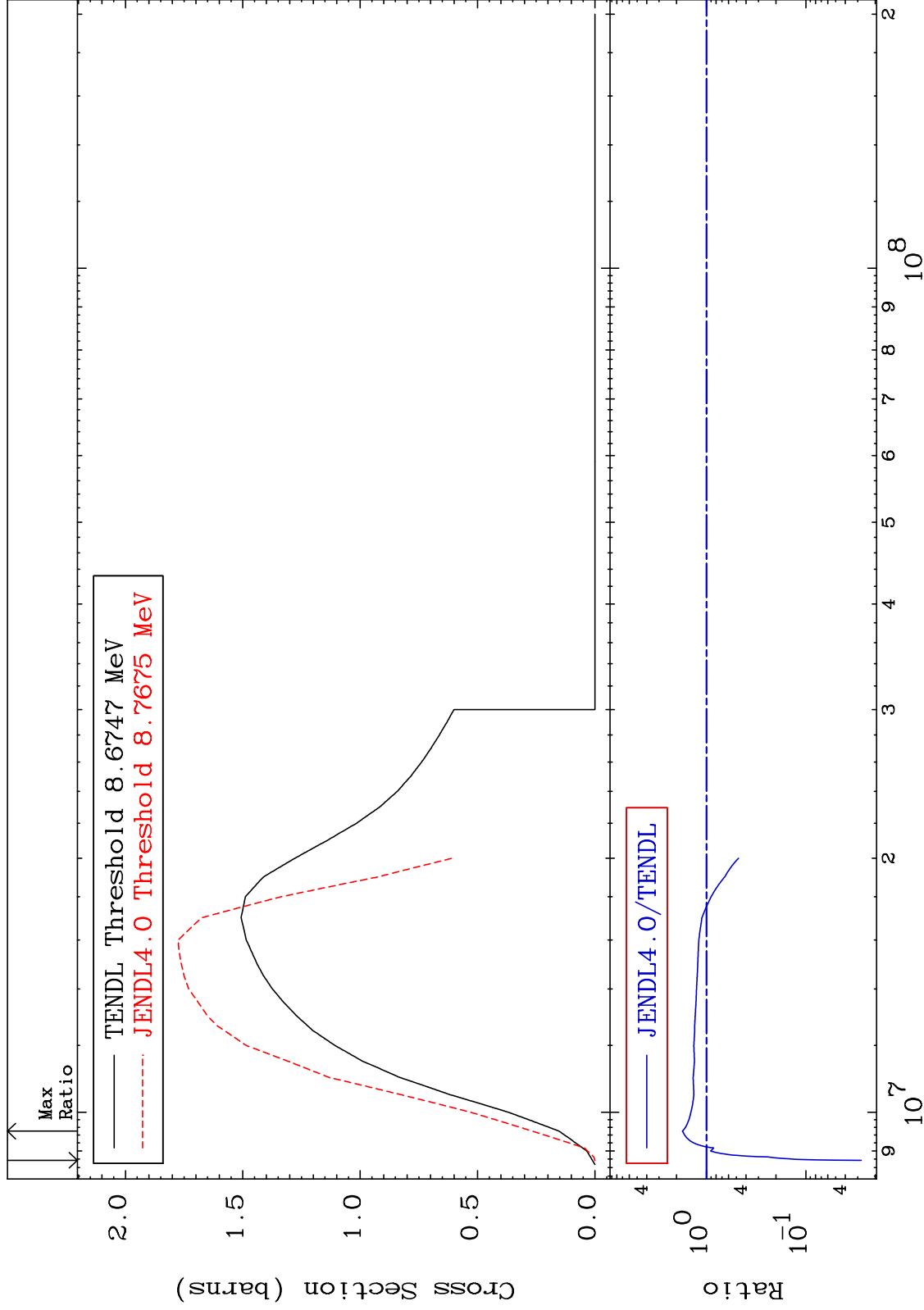
MAT 5649

(n,2n)

56-Ba-138

-97.23 To 74.47 %

Cross Section



4

Incident Energy (eV)

56-Ba-138

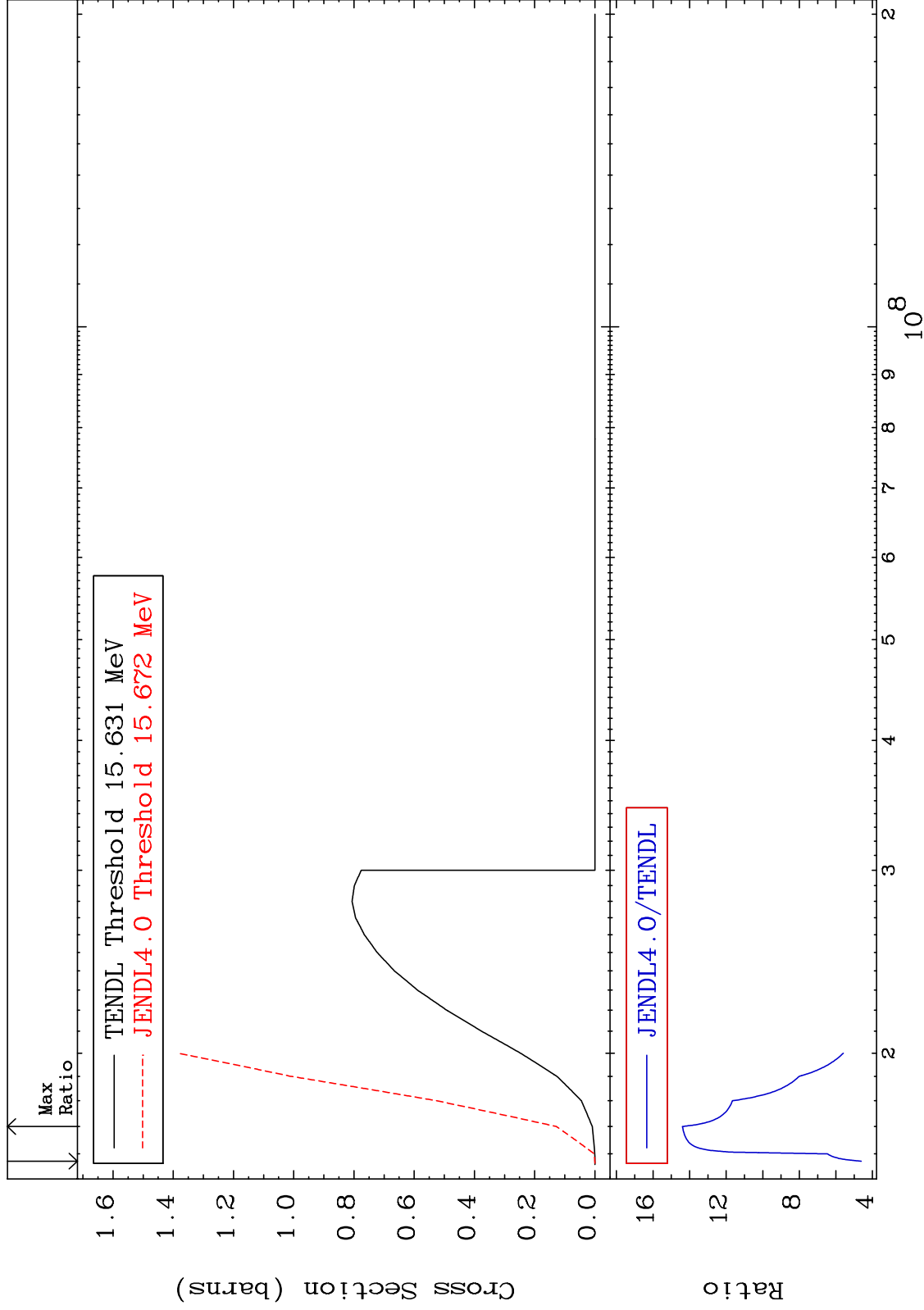
MAT 5649

(n,3n)

56-Ba-138

Cross Section

361.3 To 1339. %

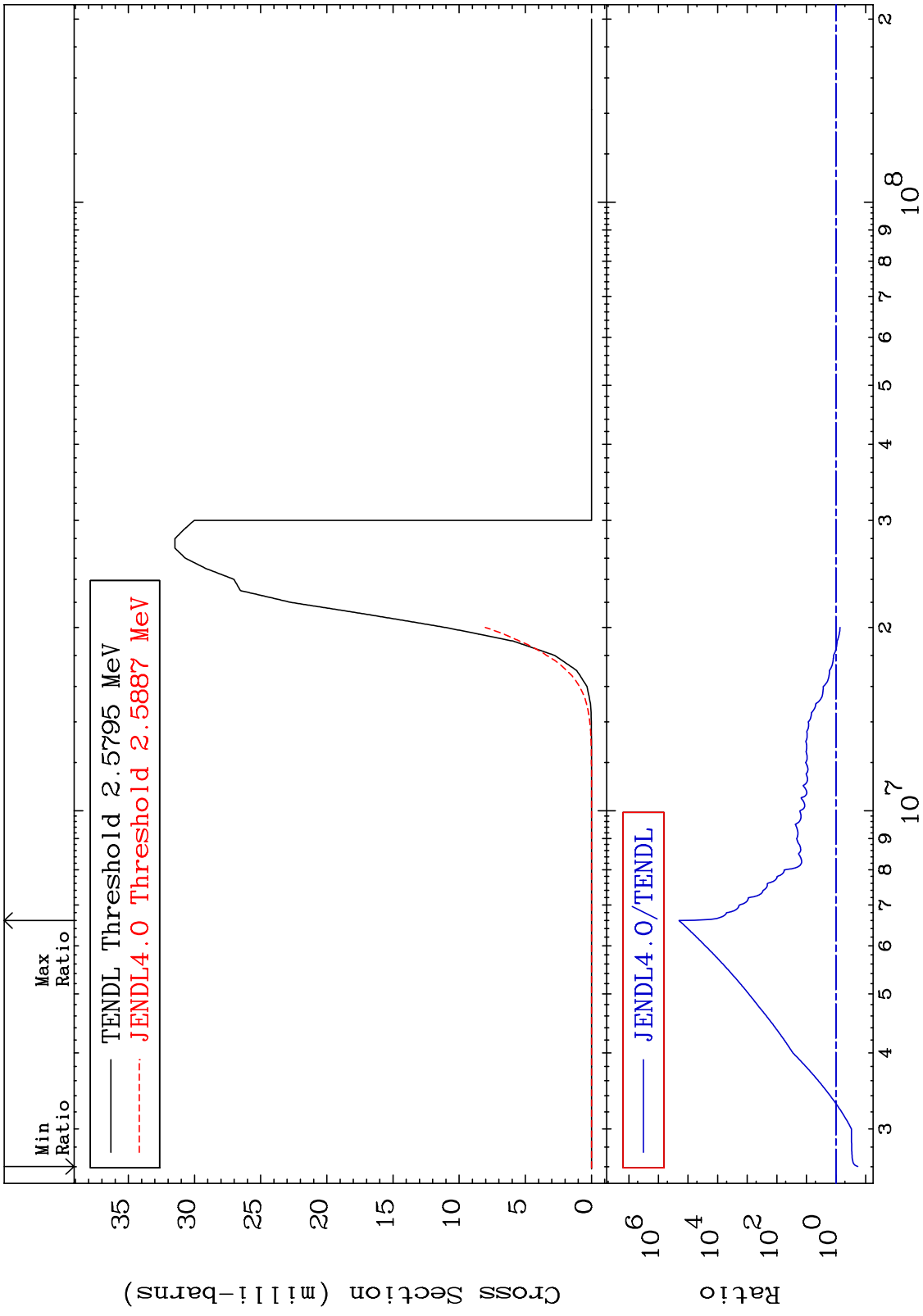


5

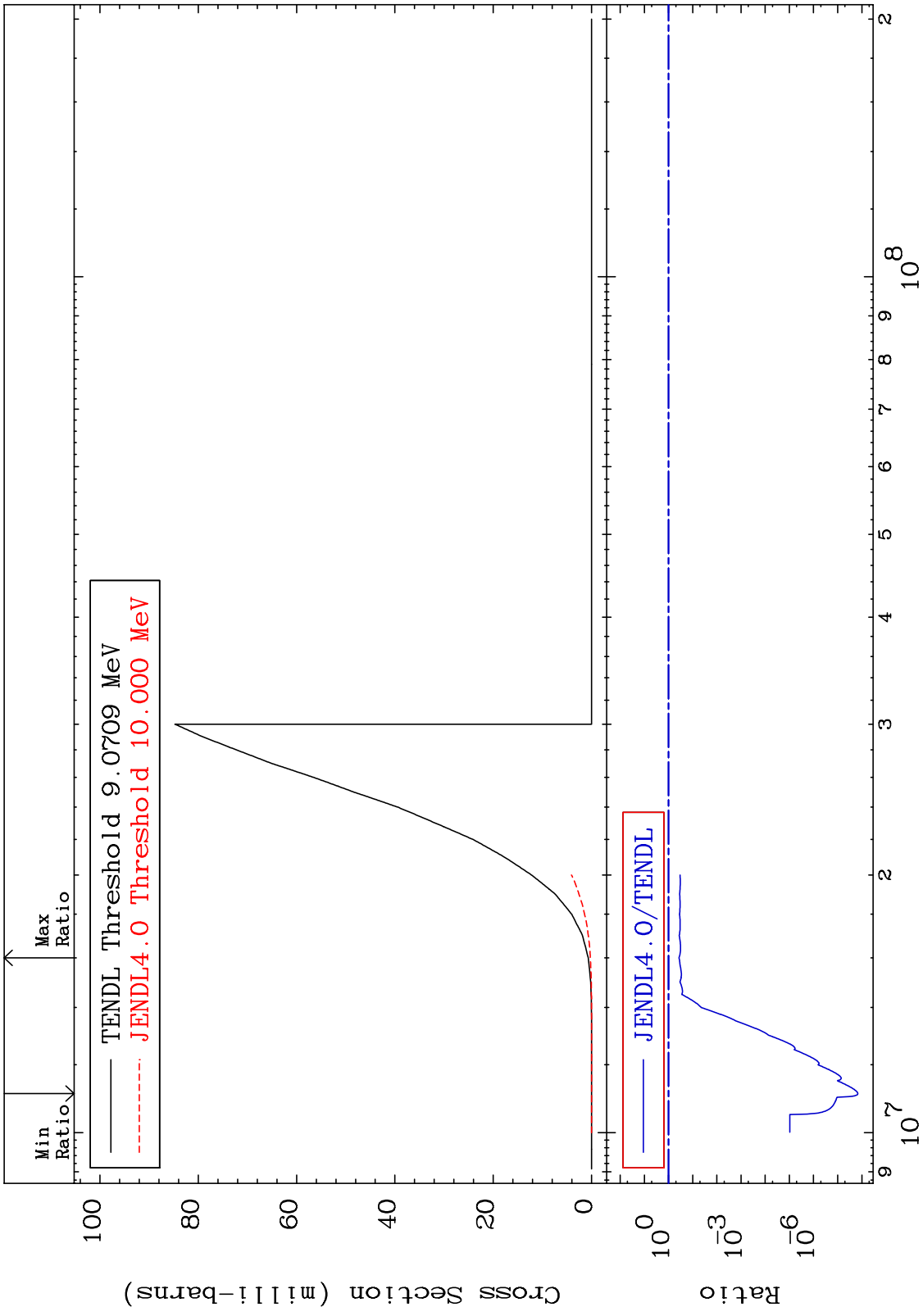
Incident Energy (eV)

56-Ba-138

MAT 5649  $(n, n') \alpha$  56-Ba-138  
 Cross Section -81.67 To 9999. %



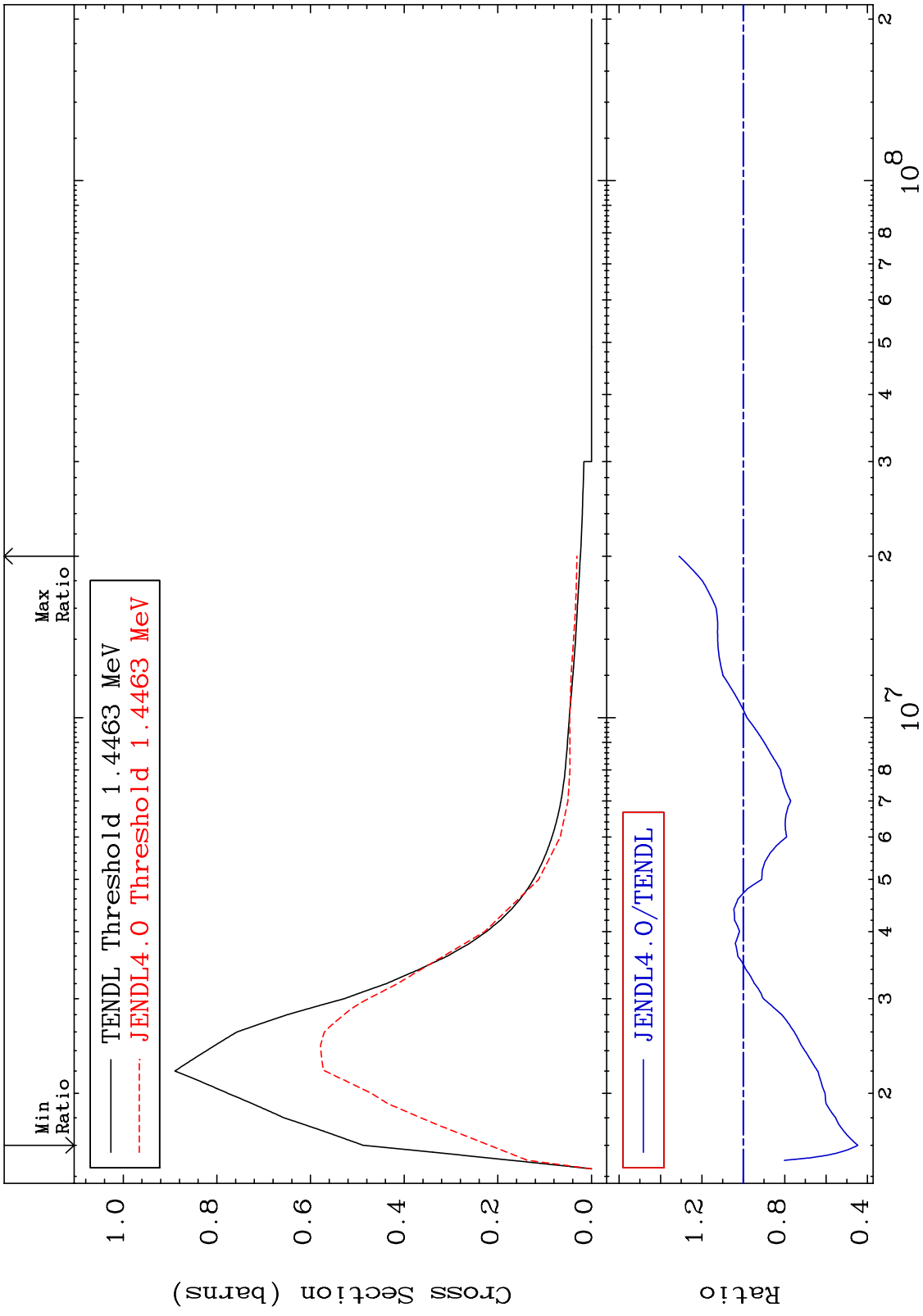
MAT 5649  $(n, n')$  p  $^{56}\text{Ba-138}$   
Cross Section -100.0 To -63.25%



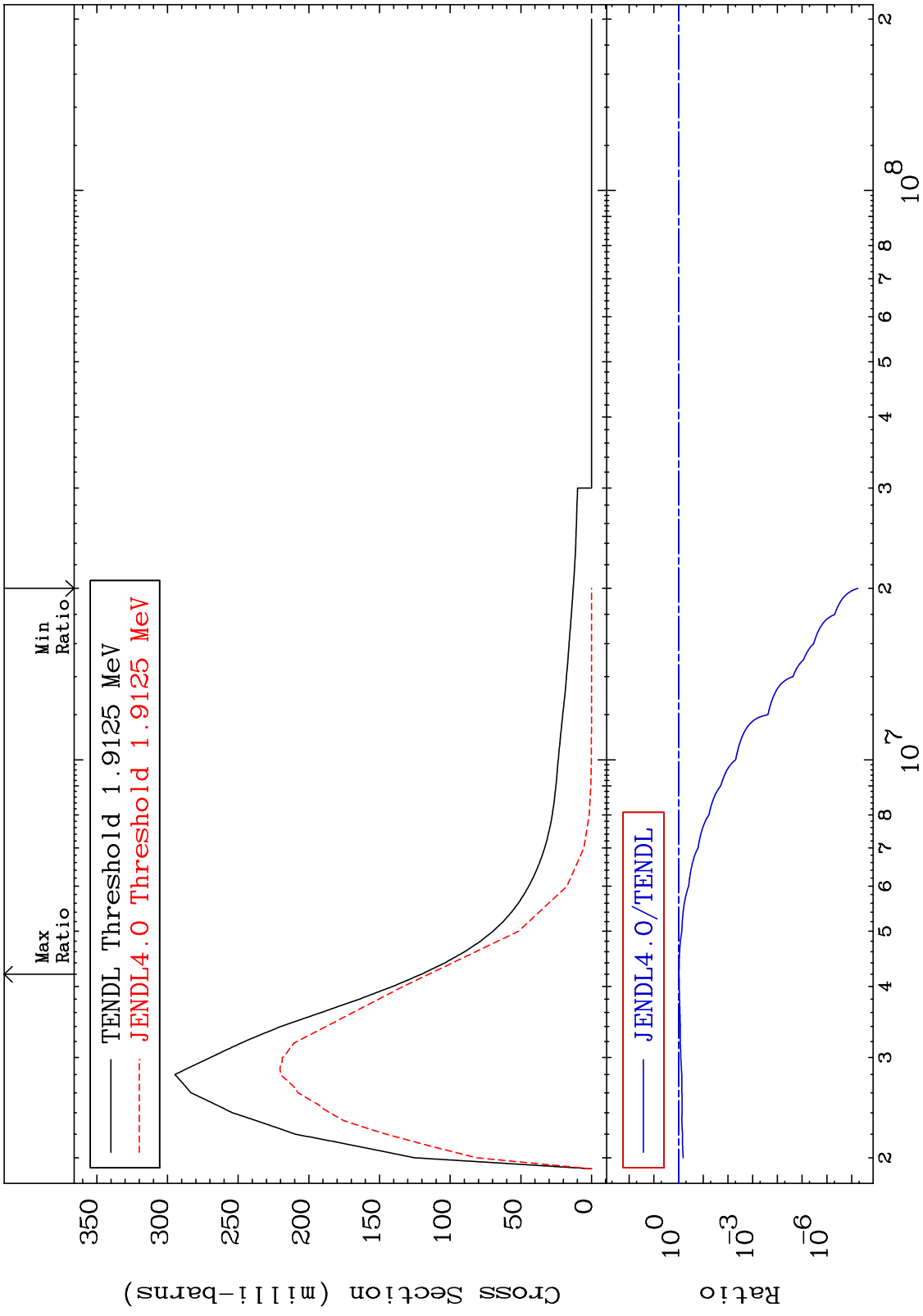
7 9 10<sup>7</sup> 2 7 8 9 10<sup>8</sup> 2  
 $^{56}\text{Ba-138}$



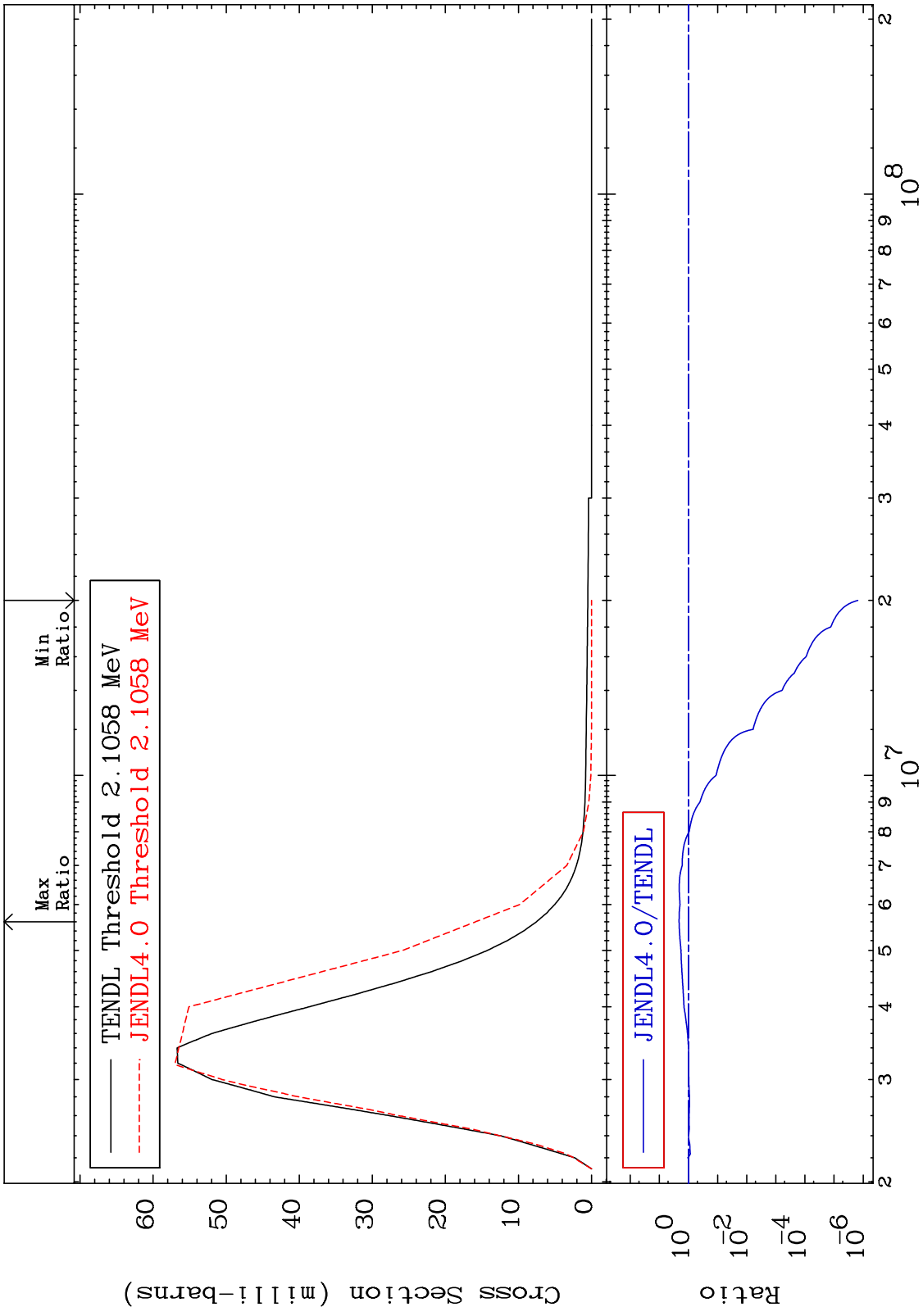
MAT 5649 MT= 51 (n,n') Level Cross Section 56-Ba-138 -55.33 To 31.04 %



MAT 5649 MT= 52 (n,n') Level Cross Section 56-Ba-138 -100.0 To -4.248%

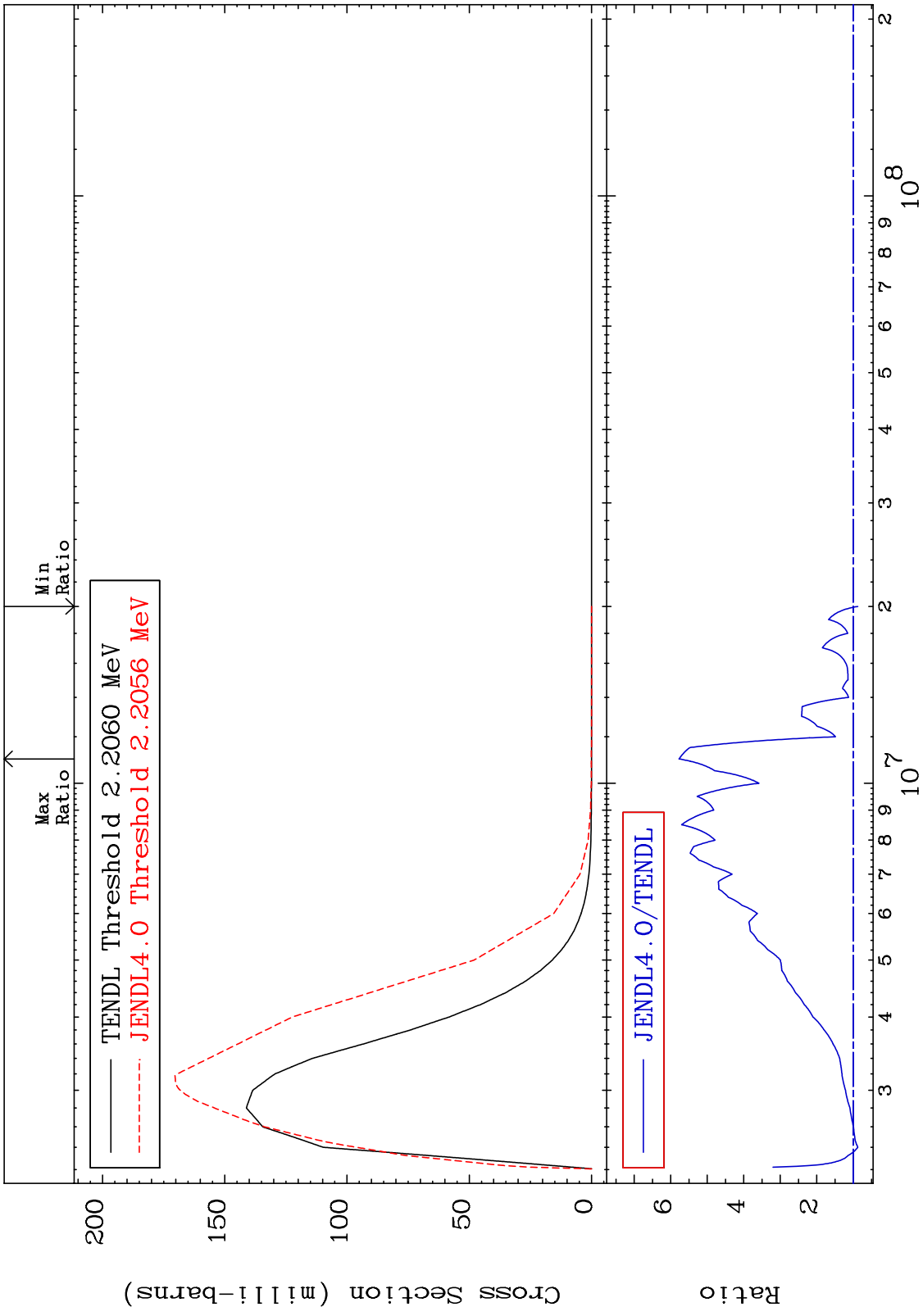


MAT 5649 MT= 53 (n,n') Level Cross Section 56-Ba-138 -100.0 To 110.7 %

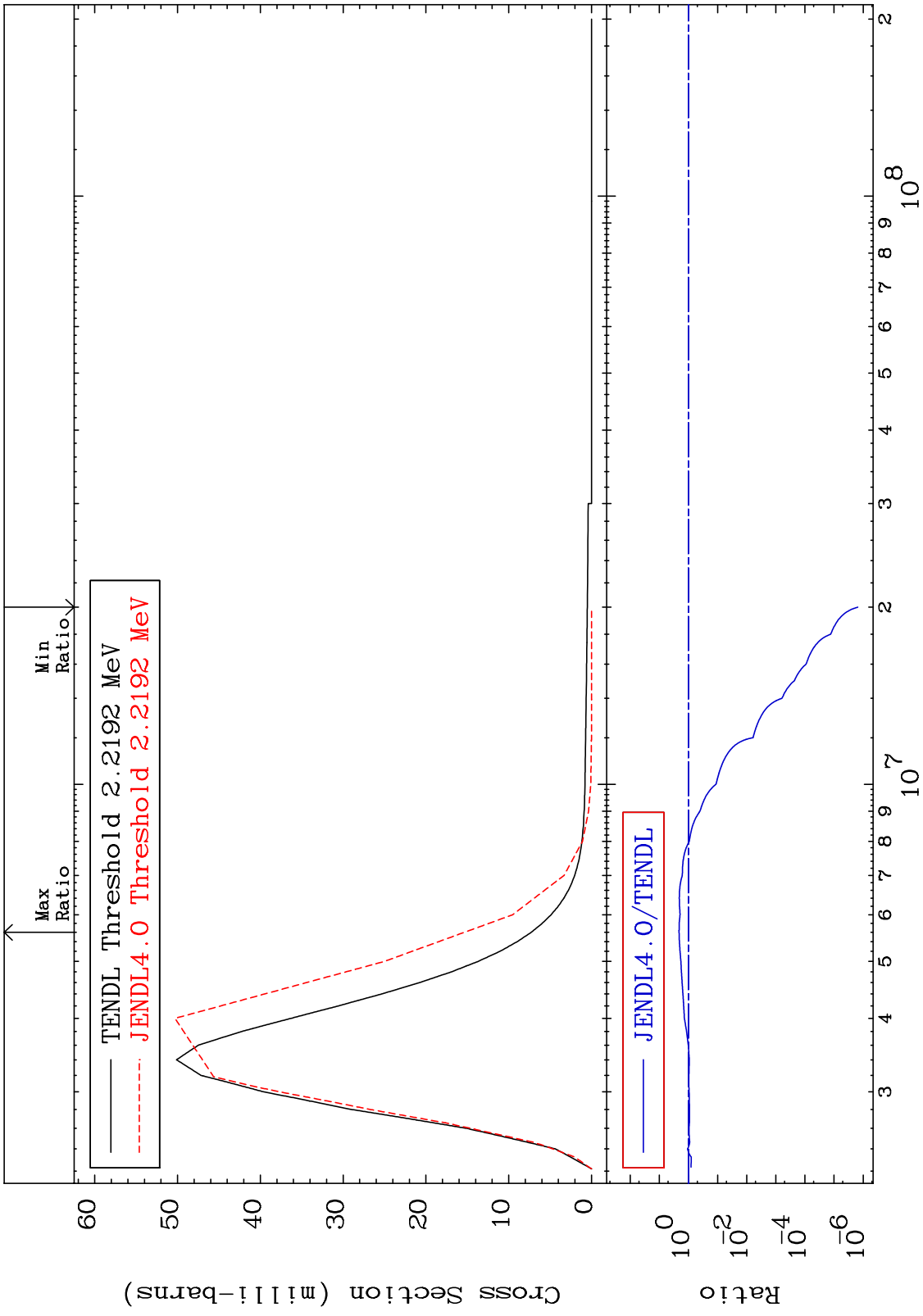


10 56-Ba-138

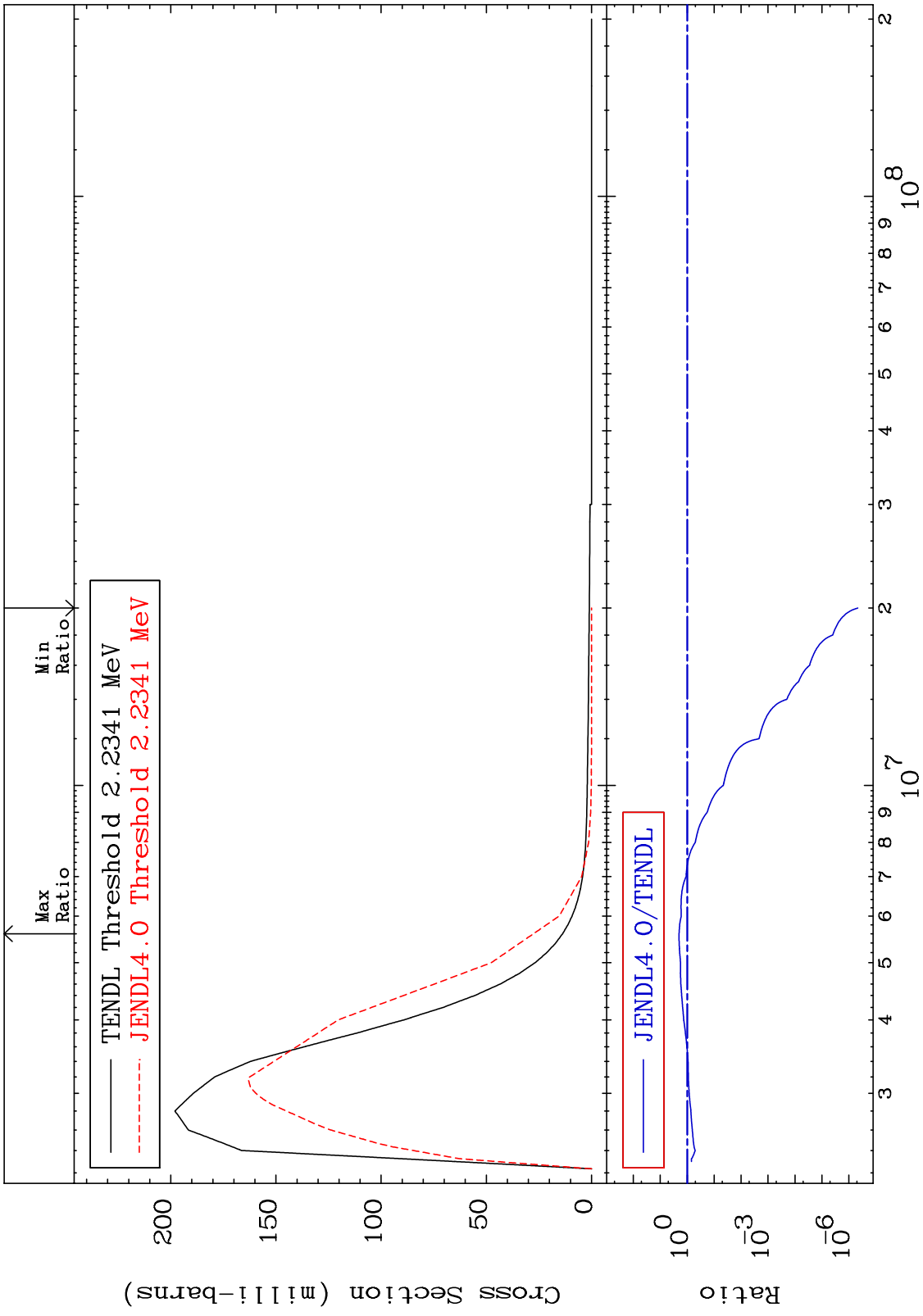
MAT 5649 MT= 54 (n,n') Level Cross Section 56-Ba-138 -12.64 To 477.2 %



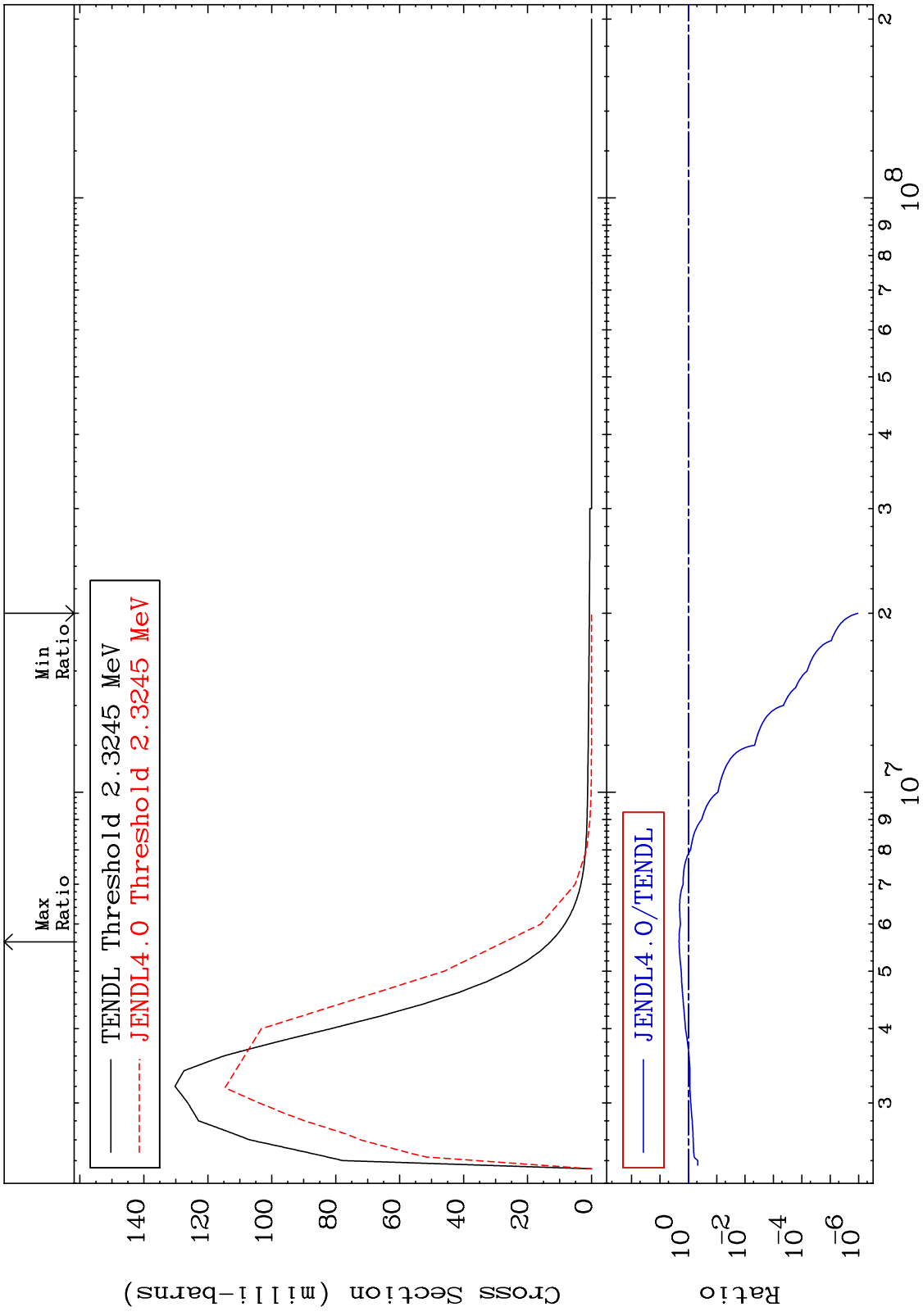
MAT 5649 MT= 55 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 111.0 %



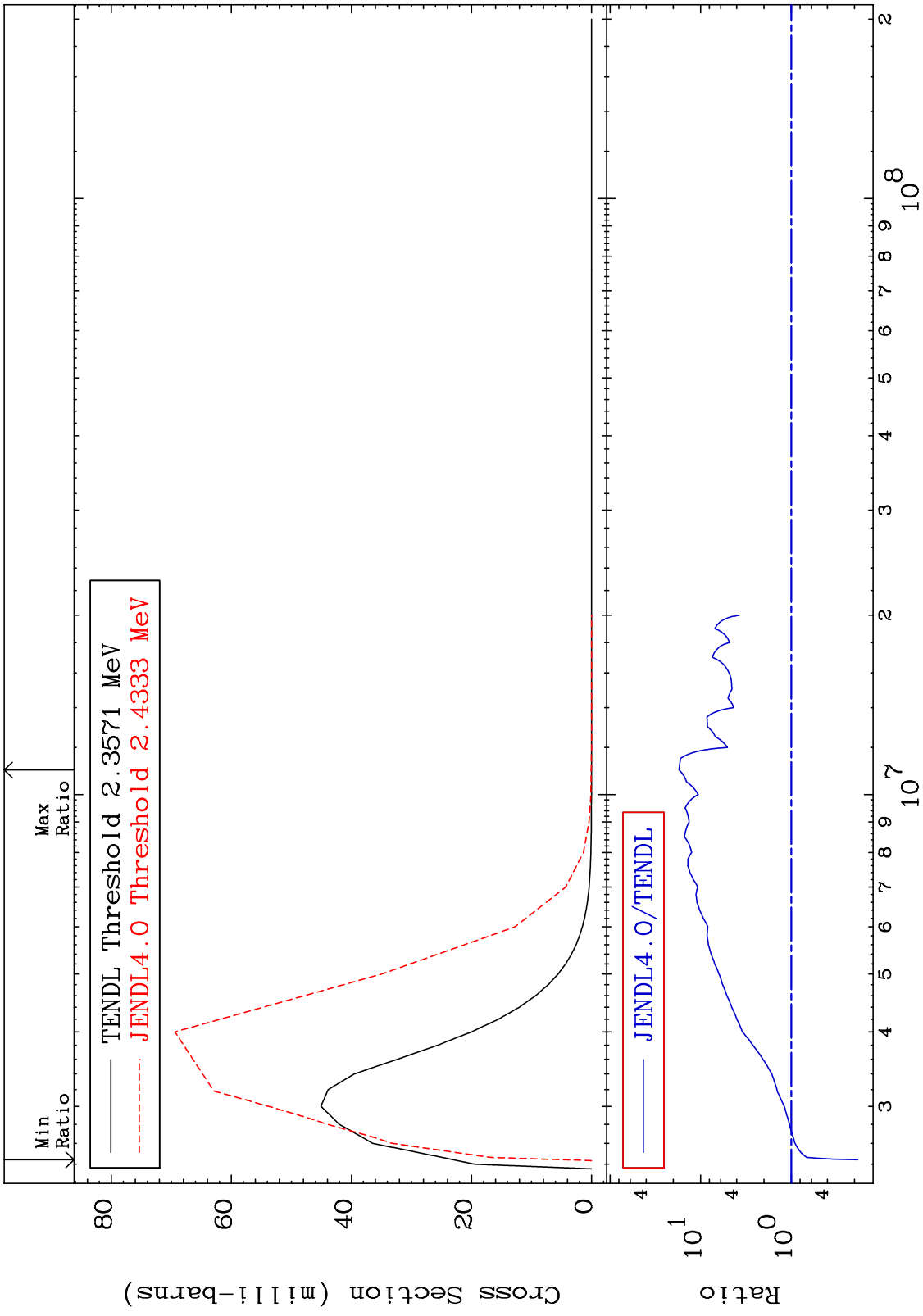
MAT 5649 MT= 56 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 100.7 %



MAT 5649 MT= 57 (n,n') Level Cross Section 56-Ba-138 -100.0 To 112.7 %

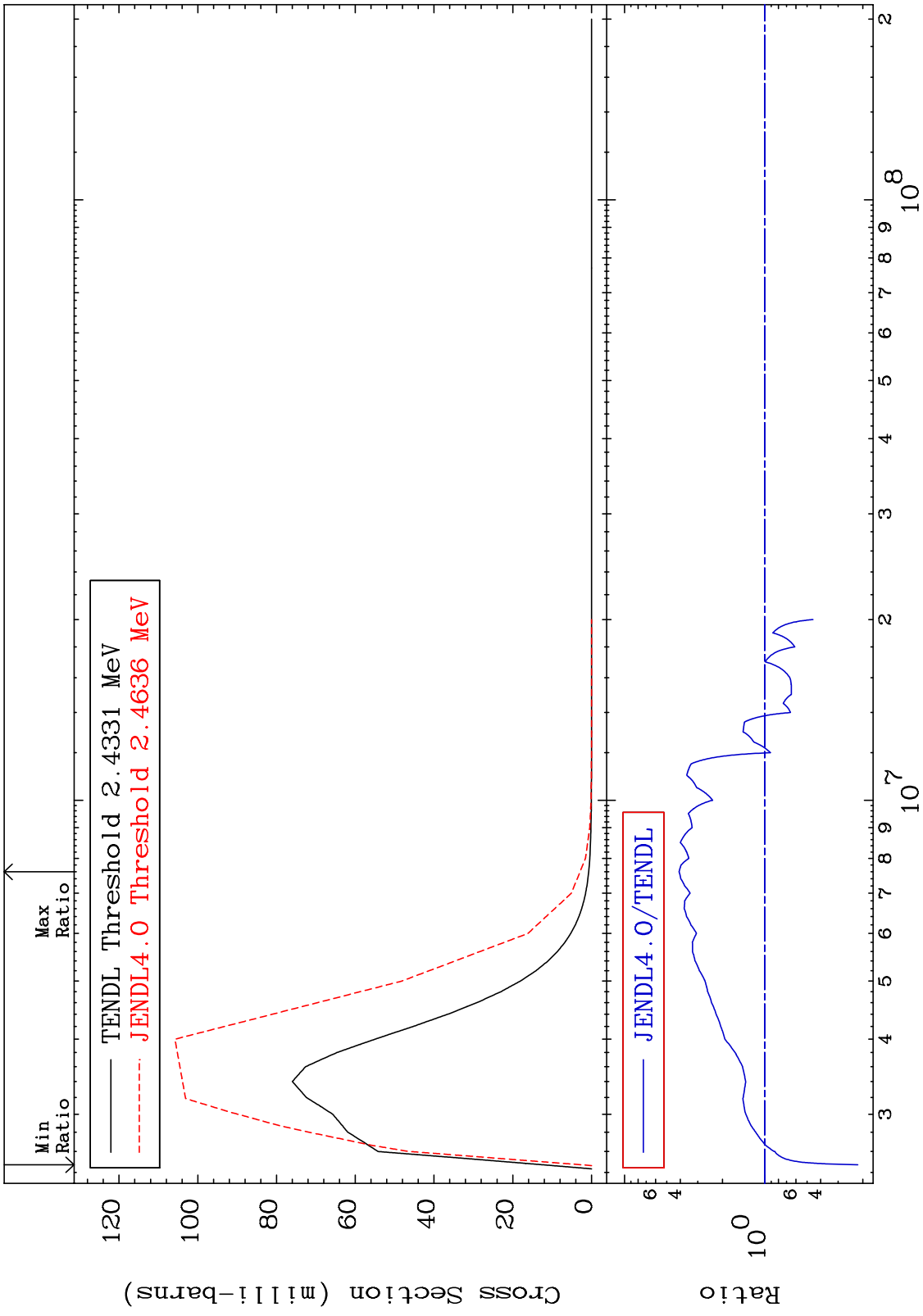


MAT 5649 MT= 58 (n,n') Level Cross Section 56-Ba-138 -81.58 To 1633. %





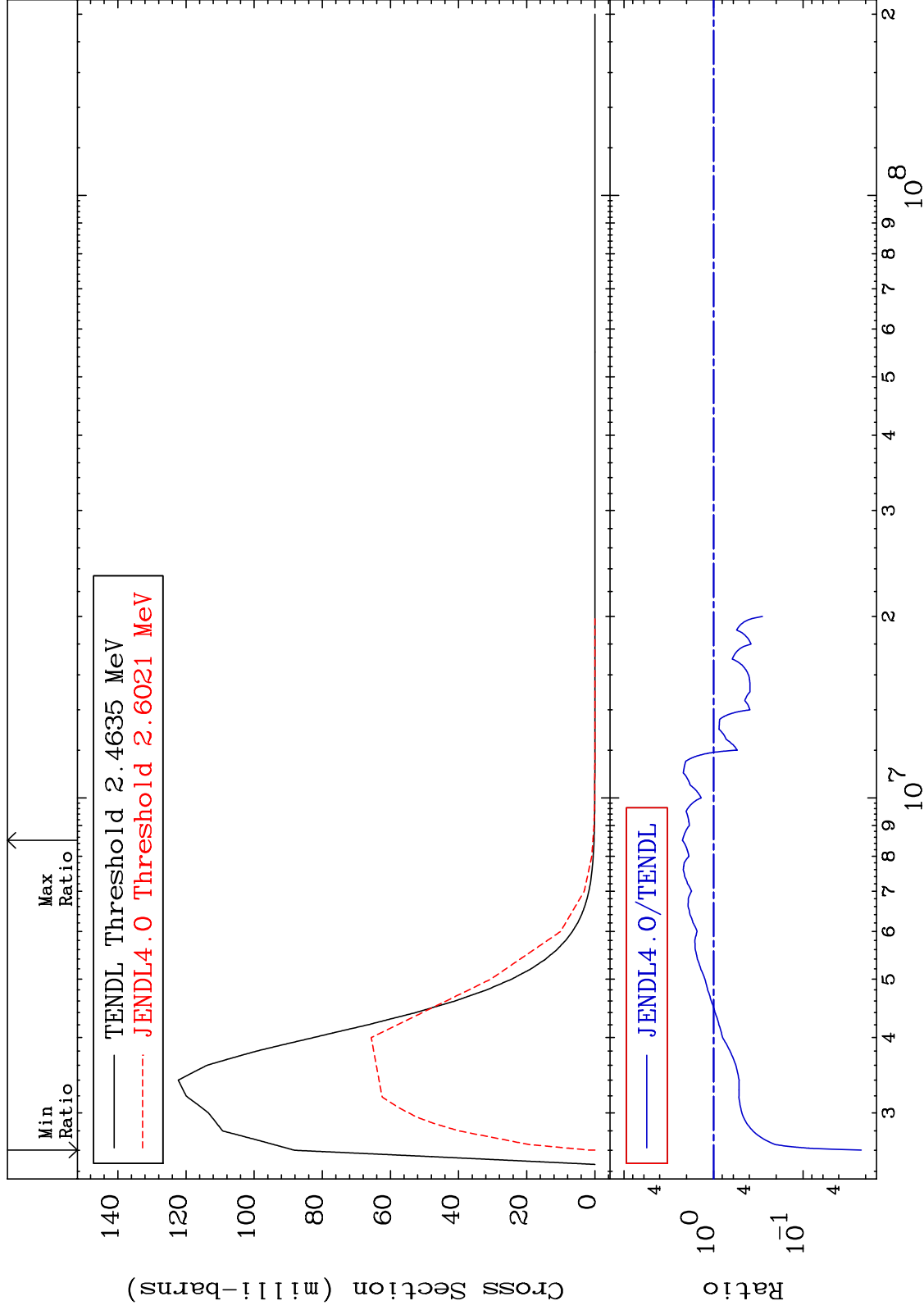
MAT 5649 MT= 59 (n,n') Level Cross Section 56-Ba-138 -78.30 To 308.2 %



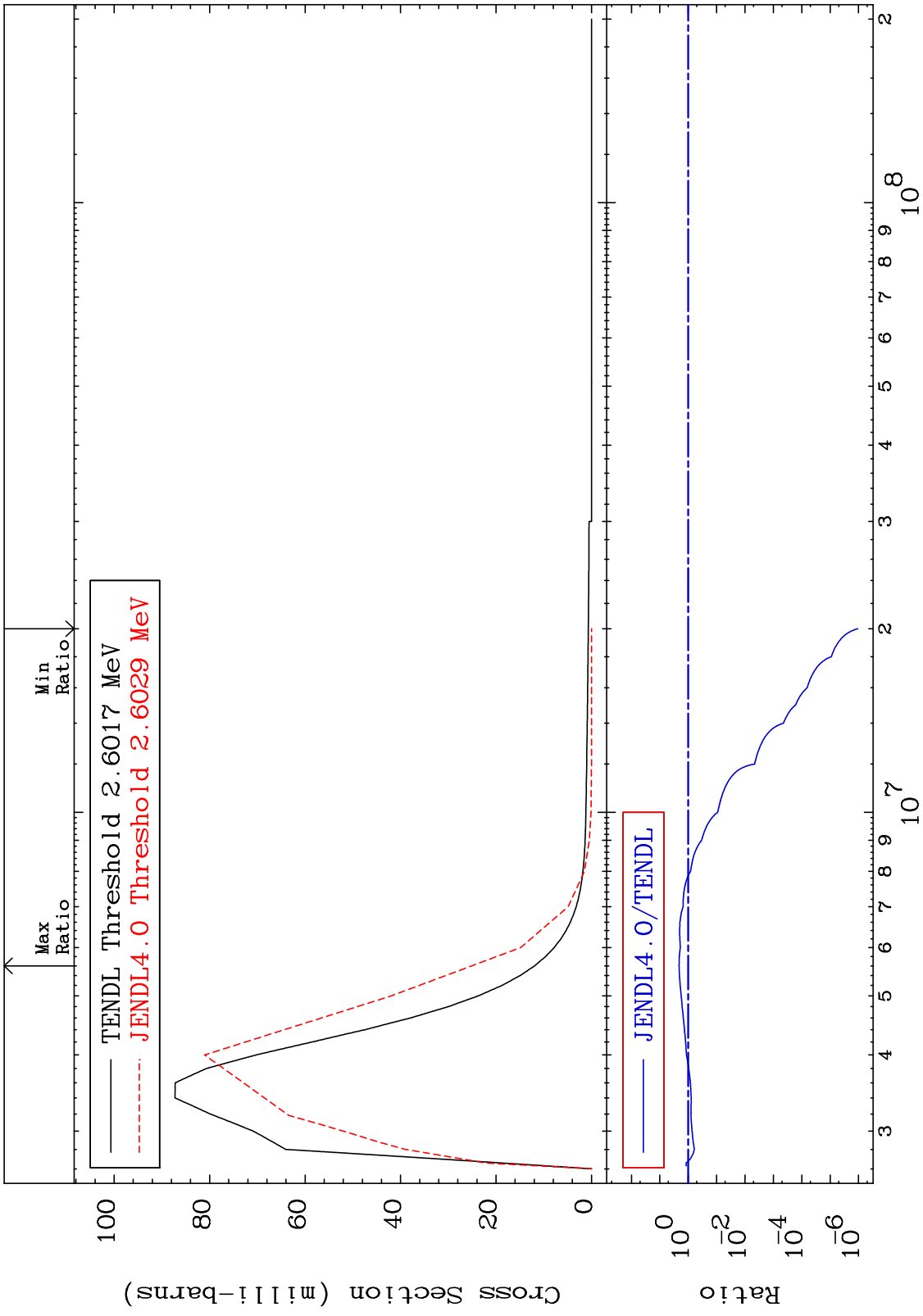
MAT 5649

MT= 60 (n,n') Level  
Cross Section

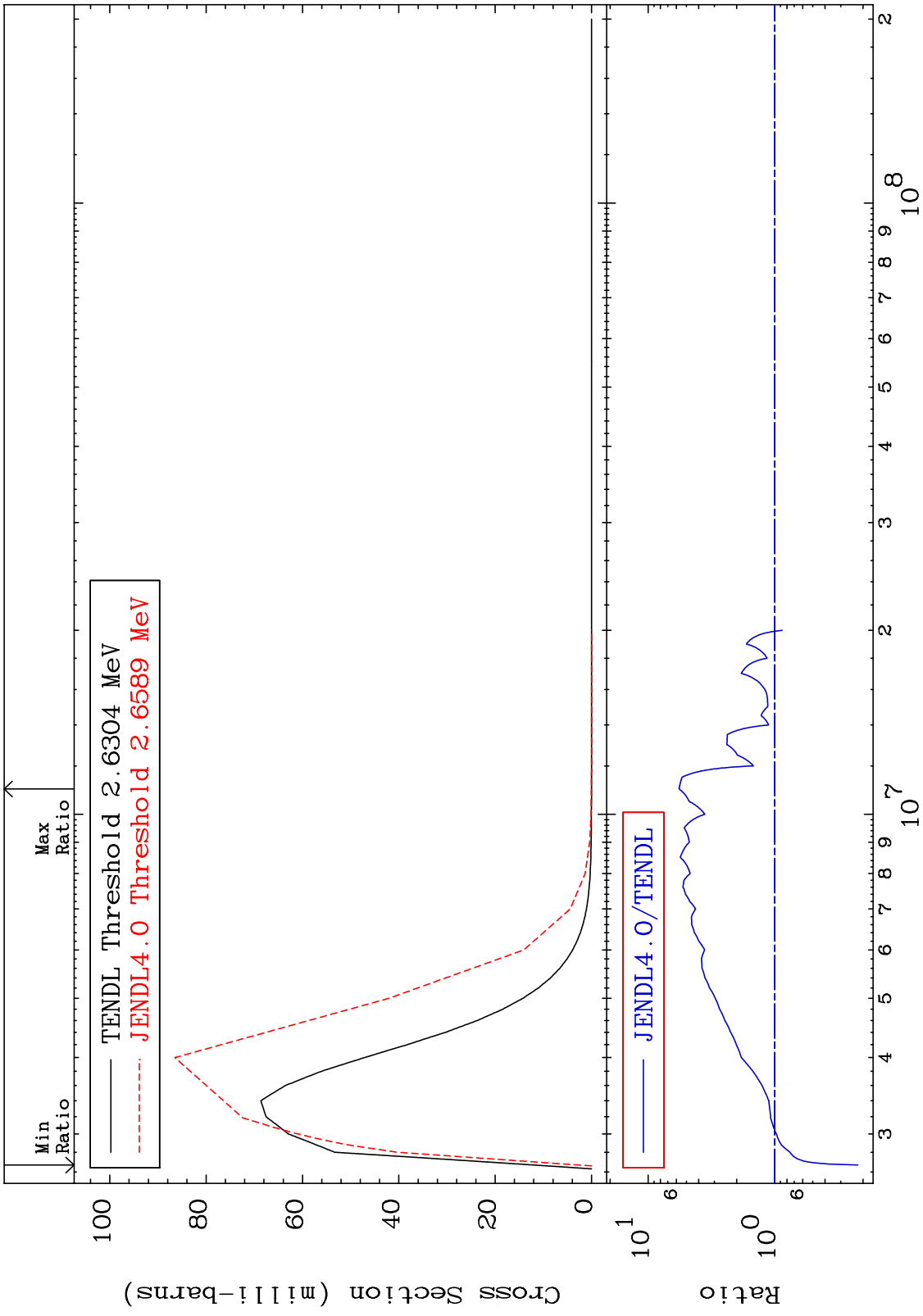
56-Ba-138  
-97.76 To 122.7 %



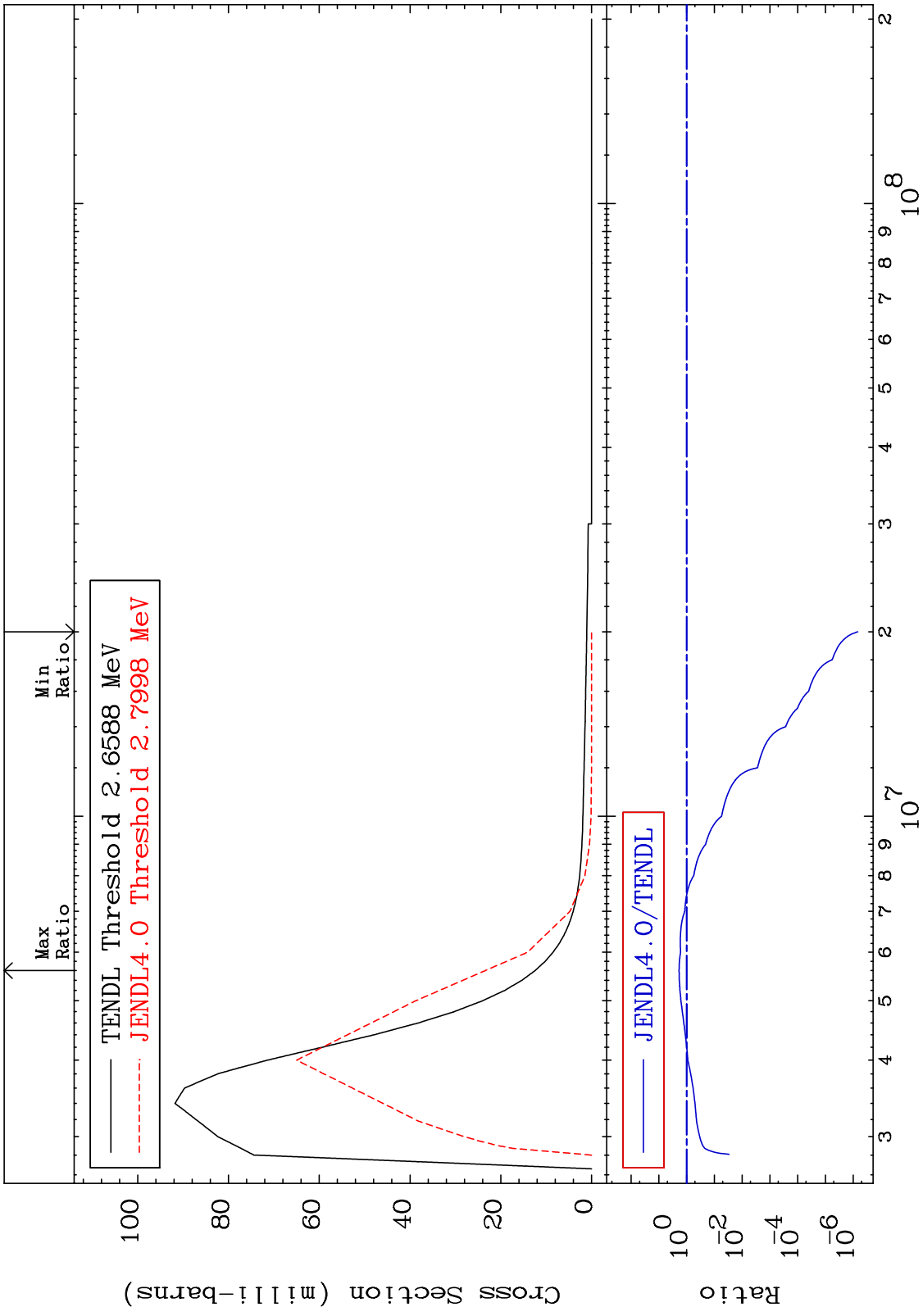
MAT 5649 MT= 61 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 110.4 %



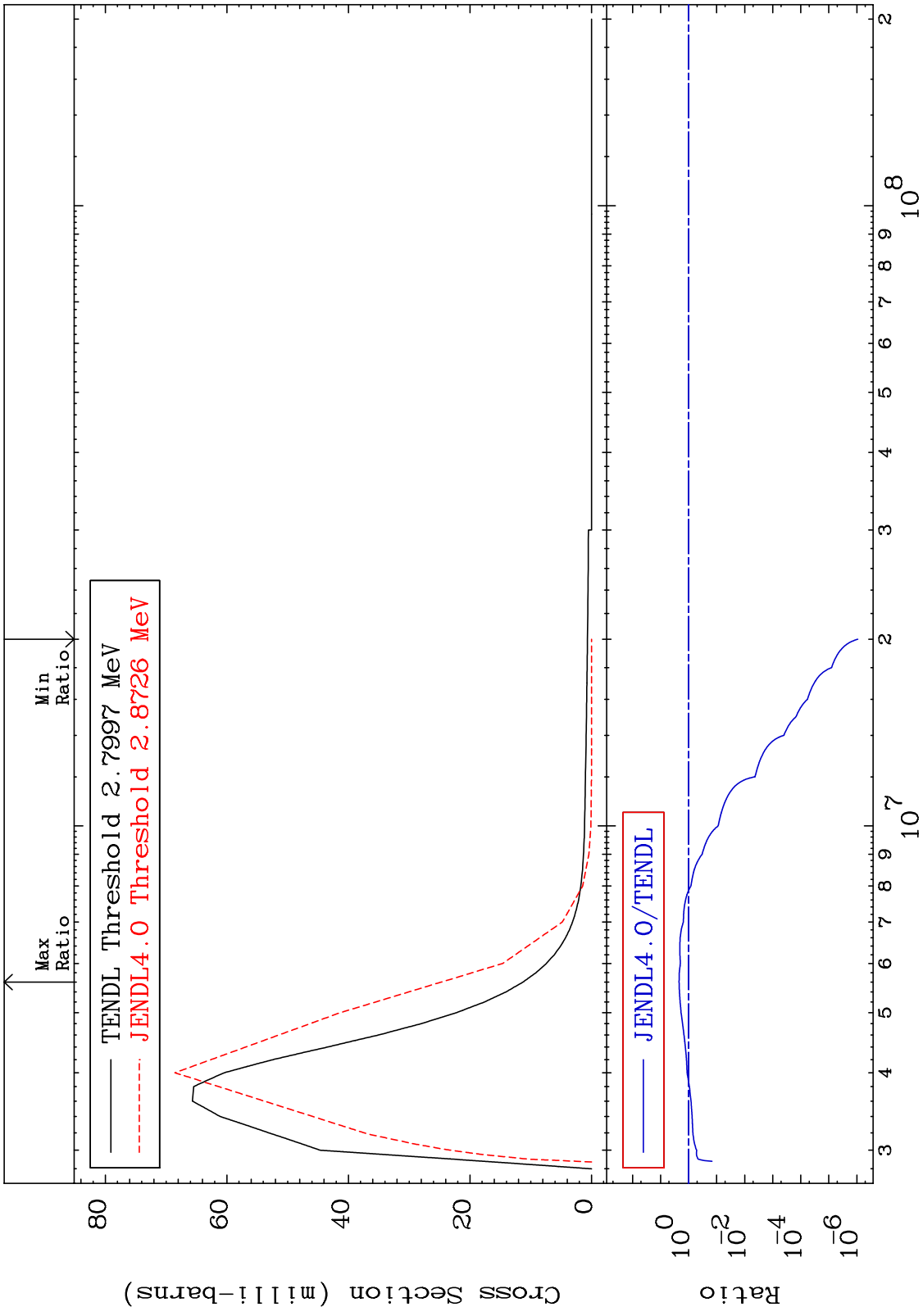
MAT 5649 MT= 62 (n,n') Level Cross Section 56-Ba-138 -78.02 To 470.6 %



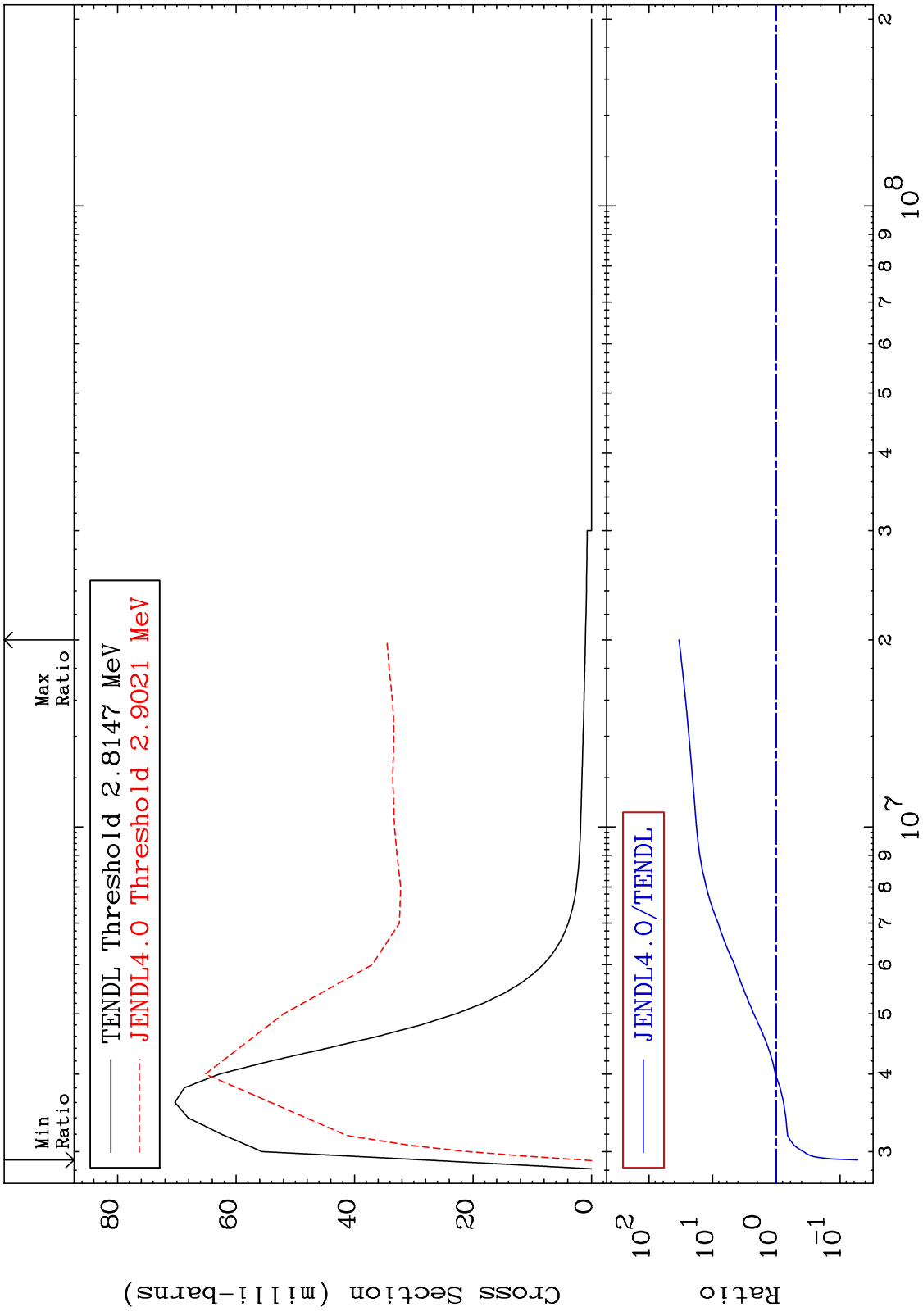
MAT 5649 MT= 63 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 88.39 %



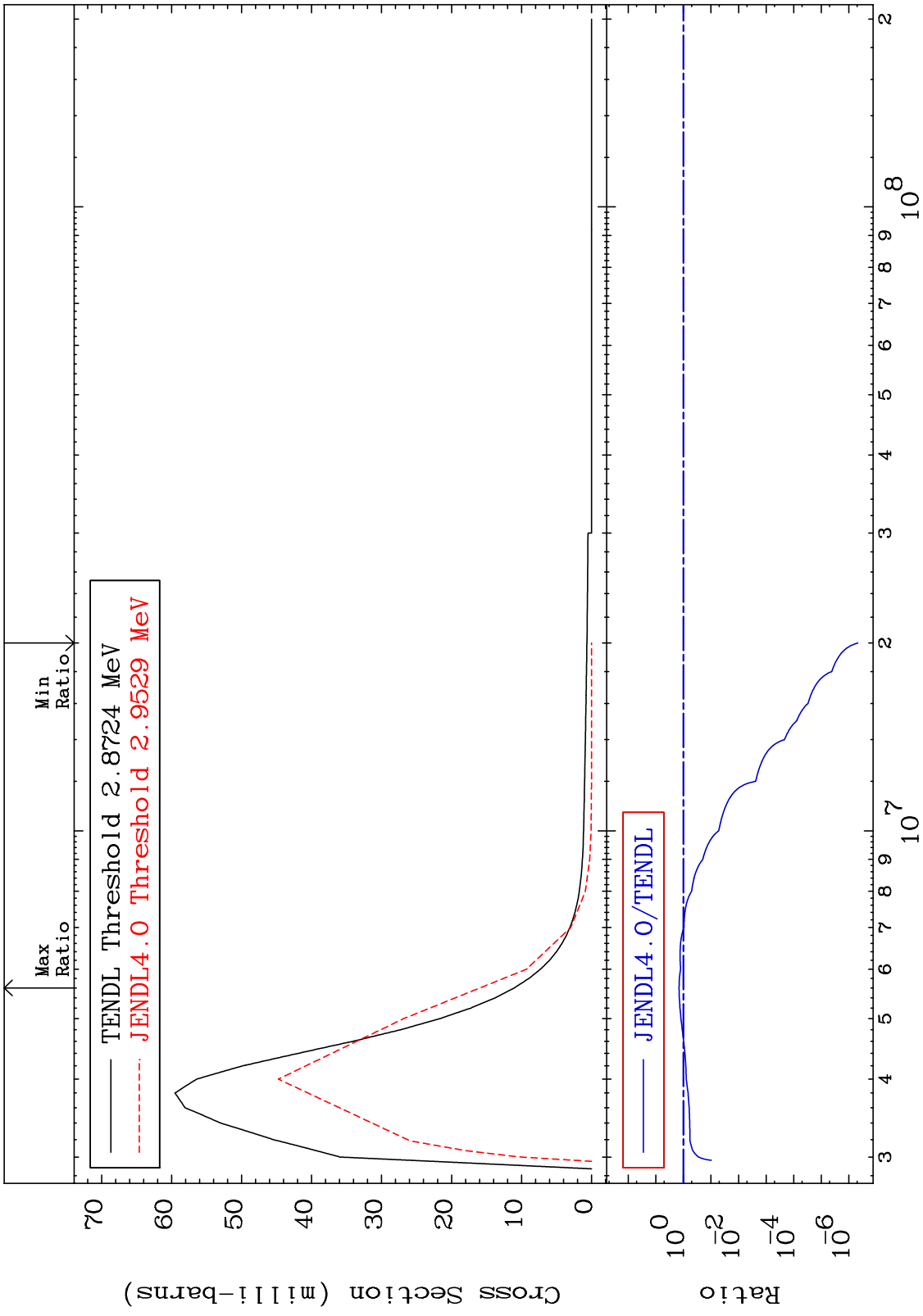
MAT 5649 MT= 64 (n,n') Level Cross Section 56-Ba-138 -100.0 To 119.4 %



MAT 5649      MT= 65 (n,n') Level Cross Section      56-Ba-138  
 -94.75 To 3275. %

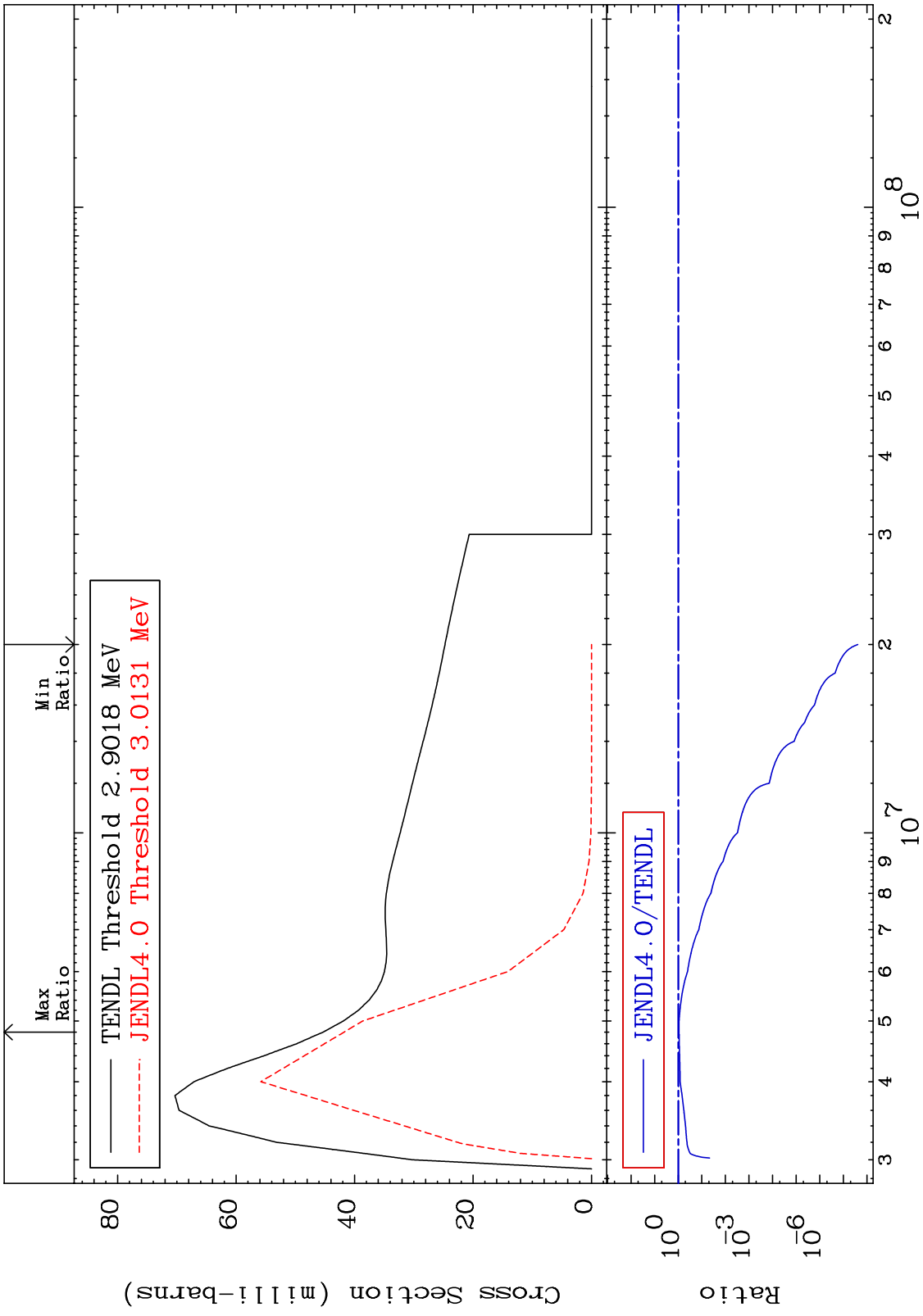


MAT 5649 MT= 66 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 44.41 %

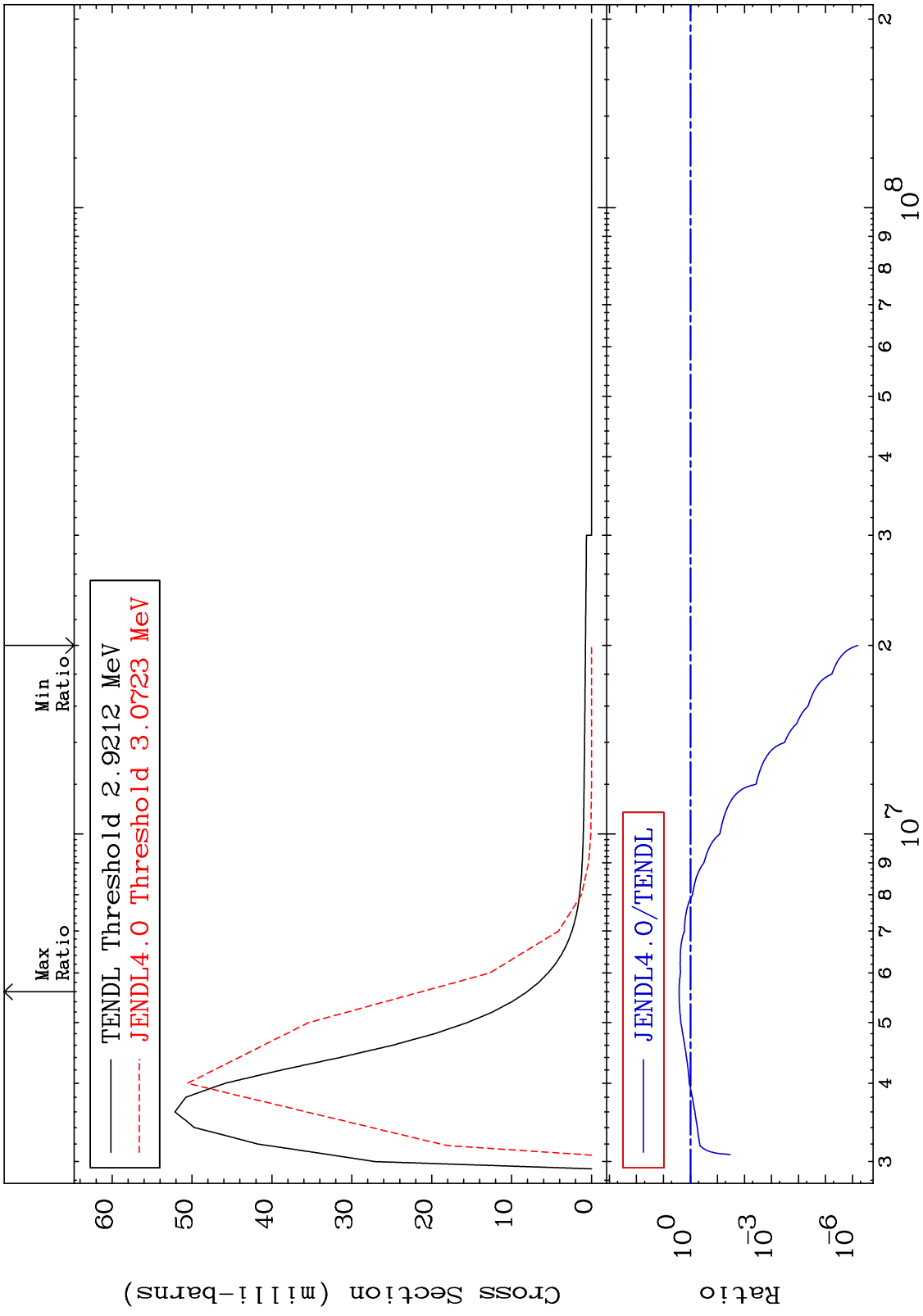




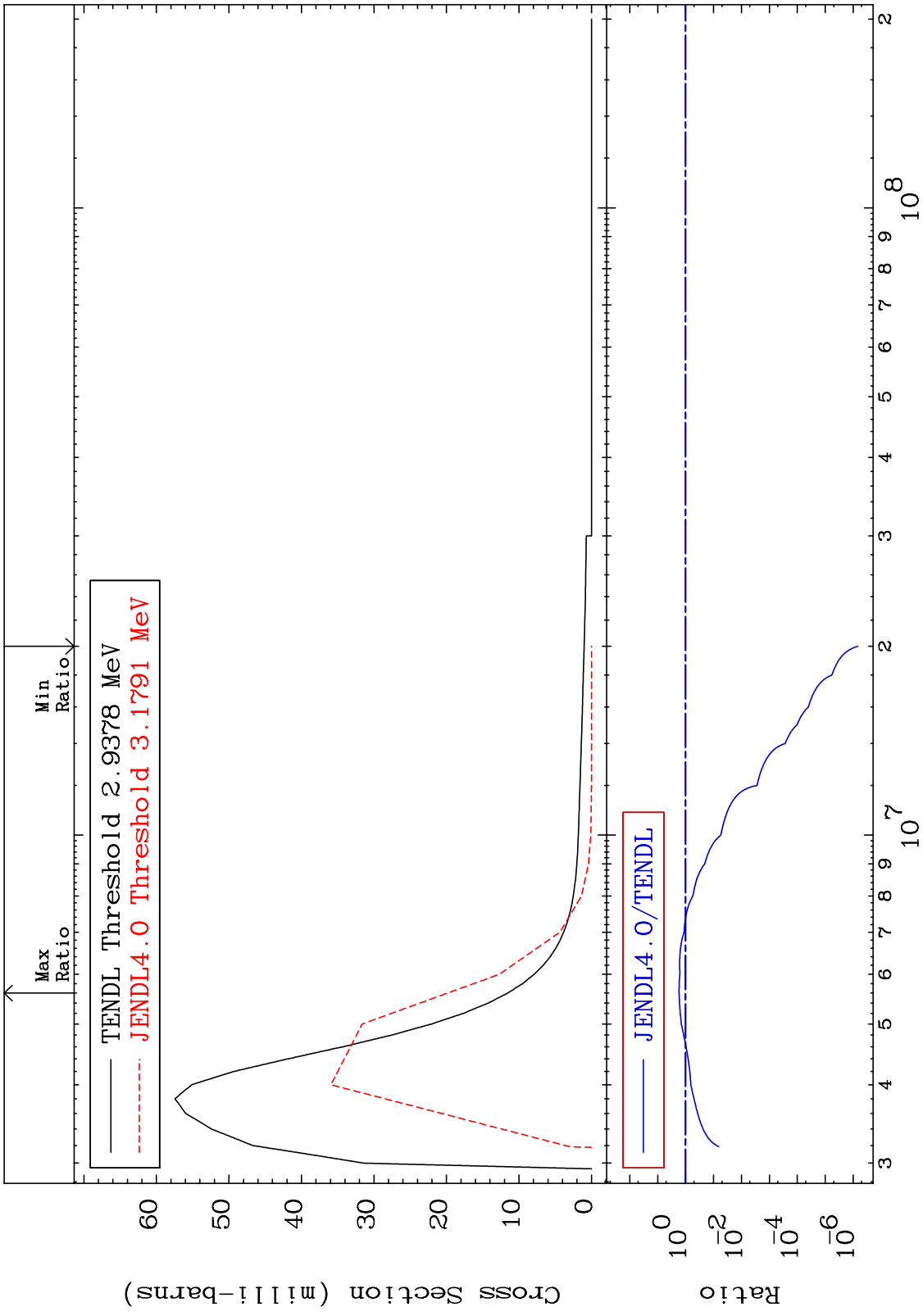
MAT 5649      MT= 67 (n,n') Level      56-Ba-138  
 Cross Section      -100.0 To -7.756%



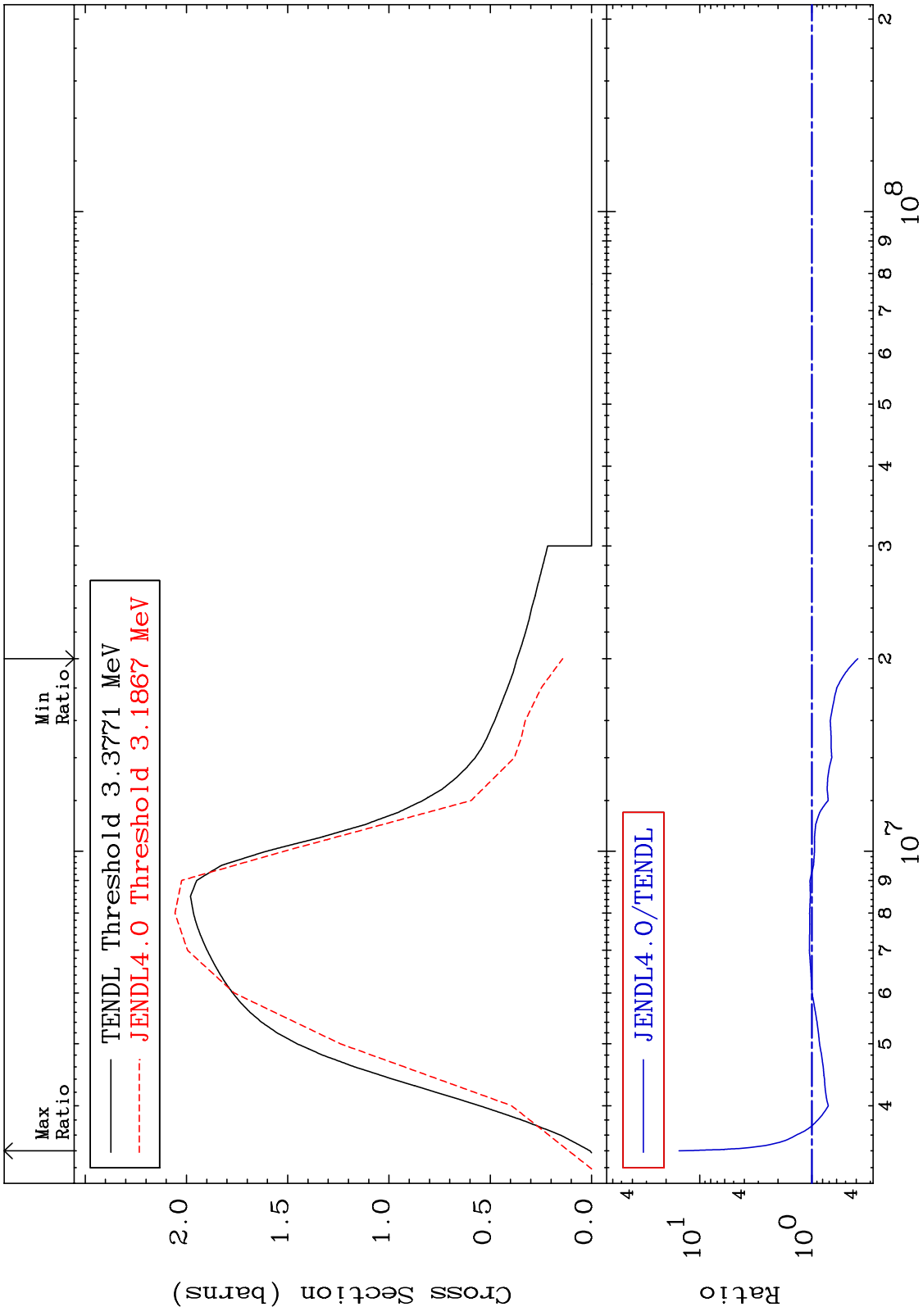
MAT 5649      MT= 68 (n,n') Level      56-Ba-138  
 Cross Section      -100.0 To 164.6 %



MAT 5649 MT= 69 (n,n') Level Cross Section 56-Ba-138  
 -100.0 To 71.97 %



MAT 5649 (n,n') Continuum Cross Section 56-Ba-138 -61.21 To 1433. %



27 56-Ba-138

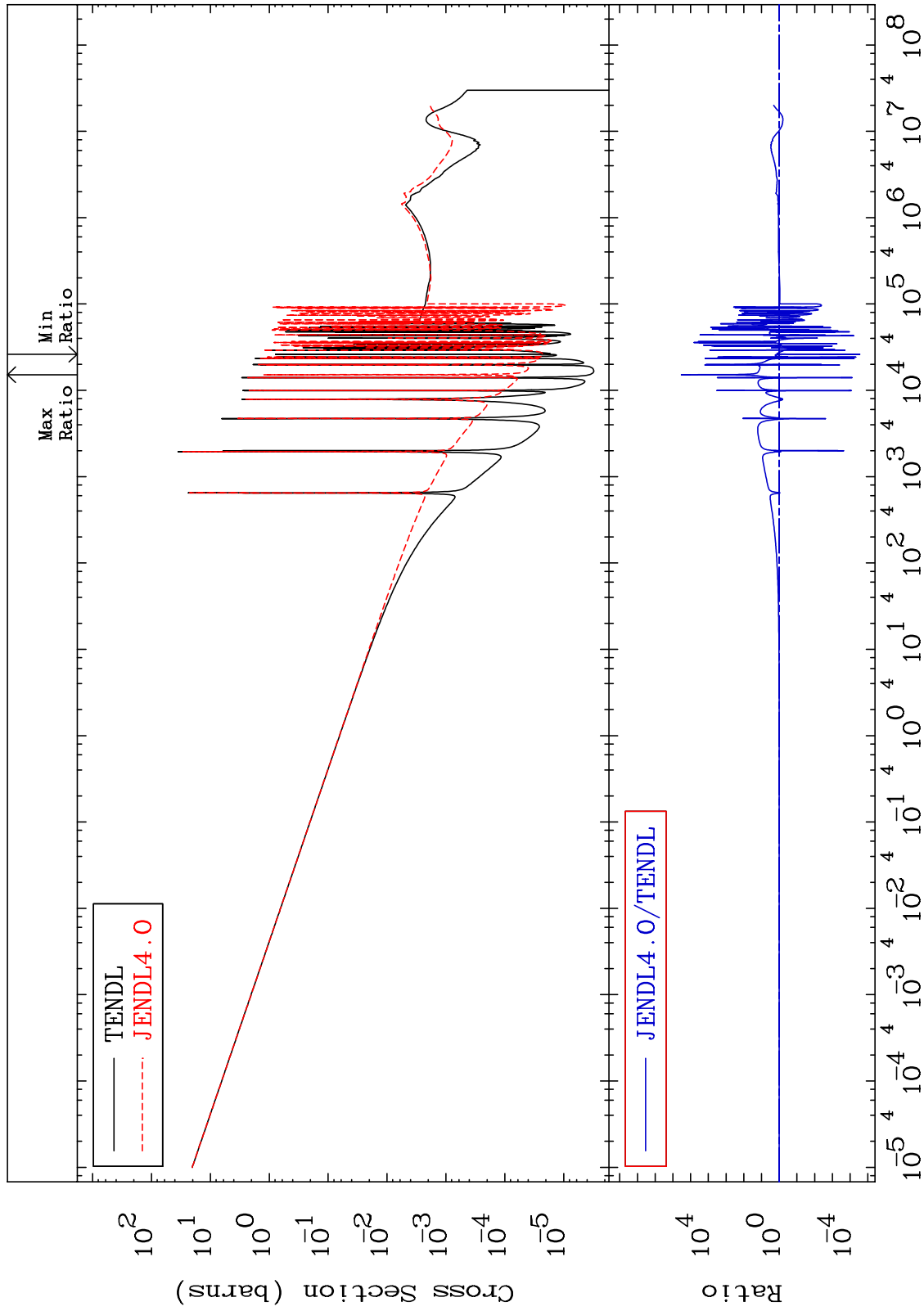
MAT 5649

(n,  $\gamma$ )

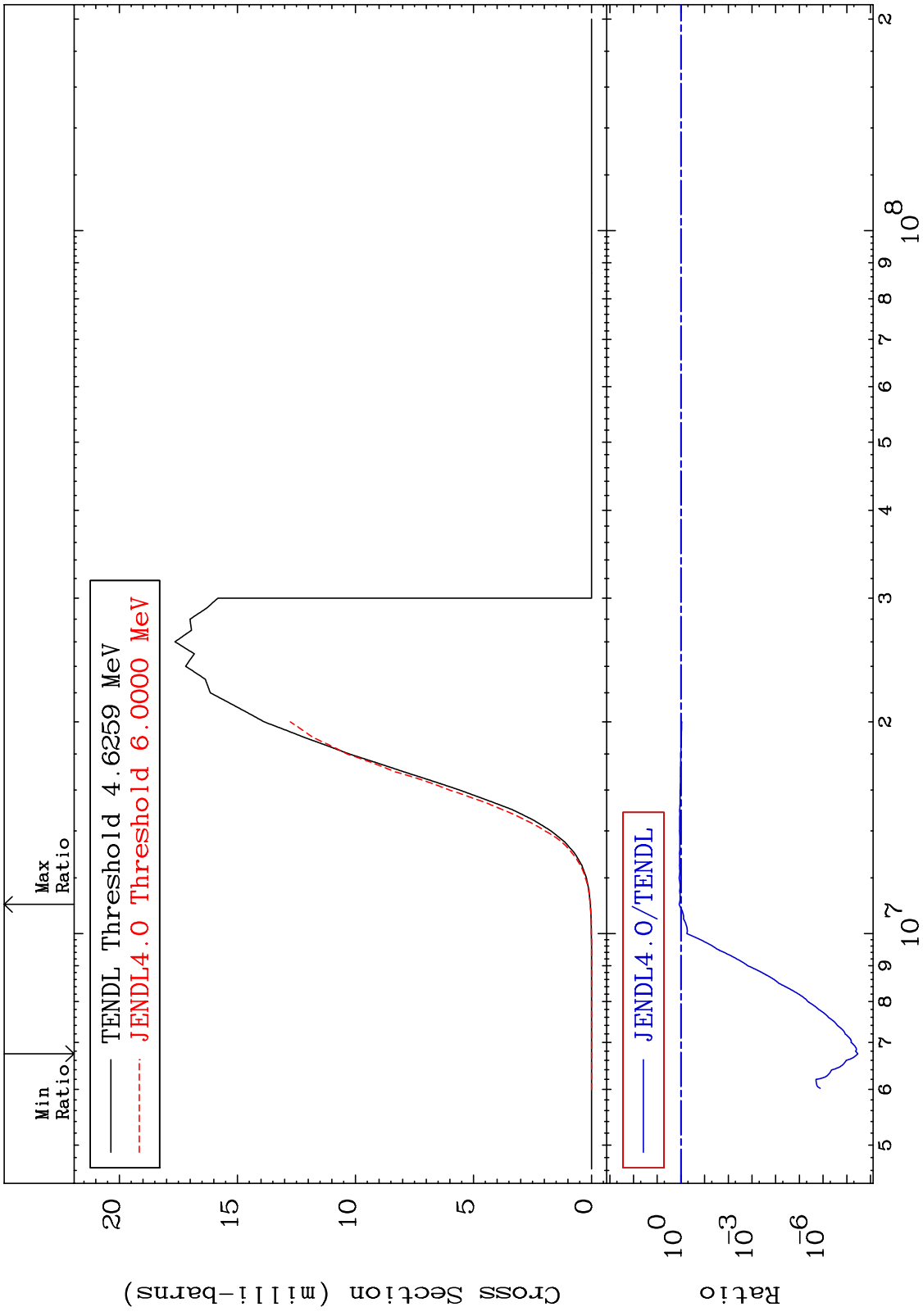
56-Ba-138

Cross Section

-100.0 To 9999. %

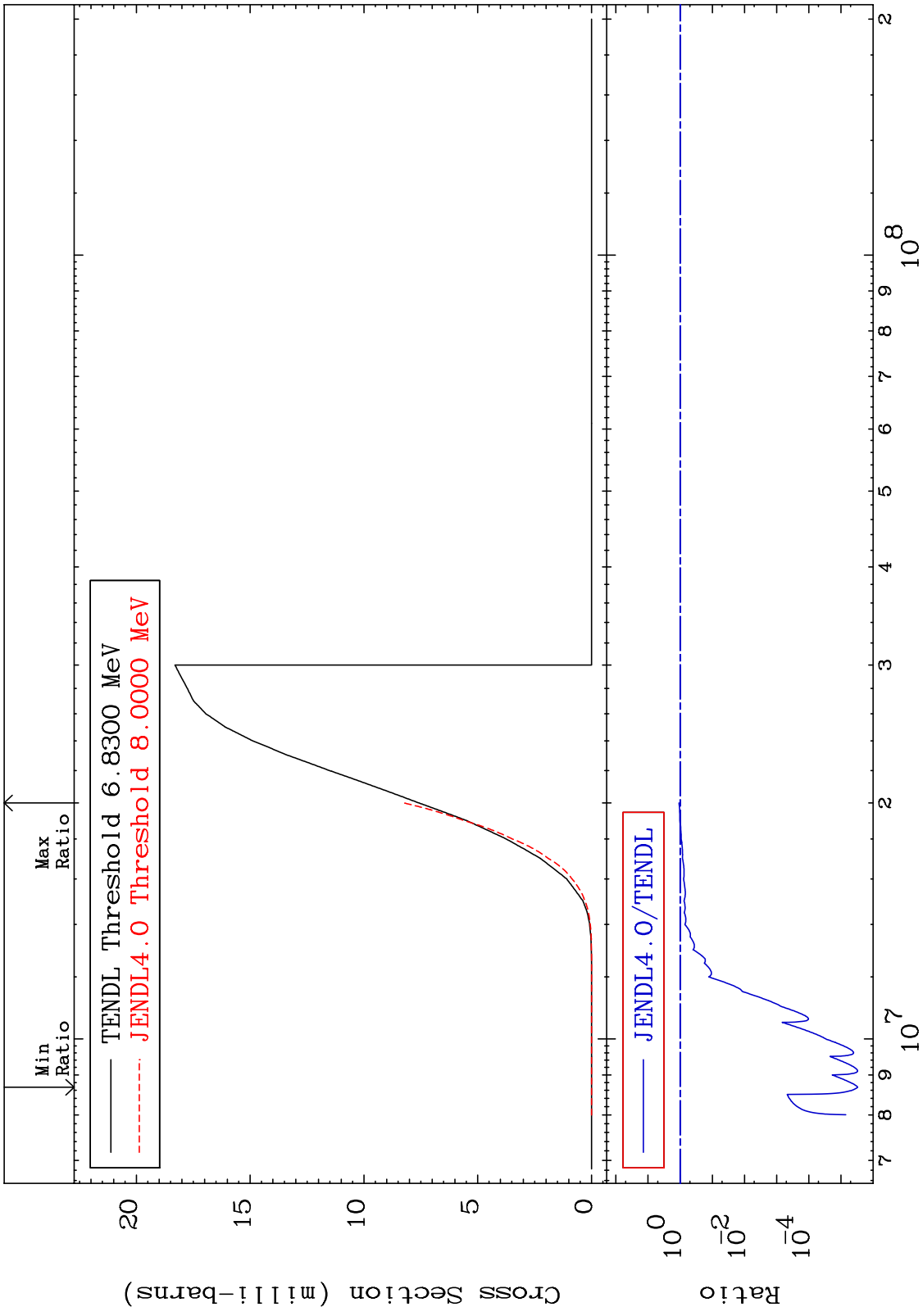


MAT 5649 (n,p) Cross Section 56-Ba-138  
 -100.0 To 19.80 %



29 Incident Energy (eV) 56-Ba-138

MAT 5649 (n,d) 56-Ba-138  
 Cross Section -100.0 To 8.463 %



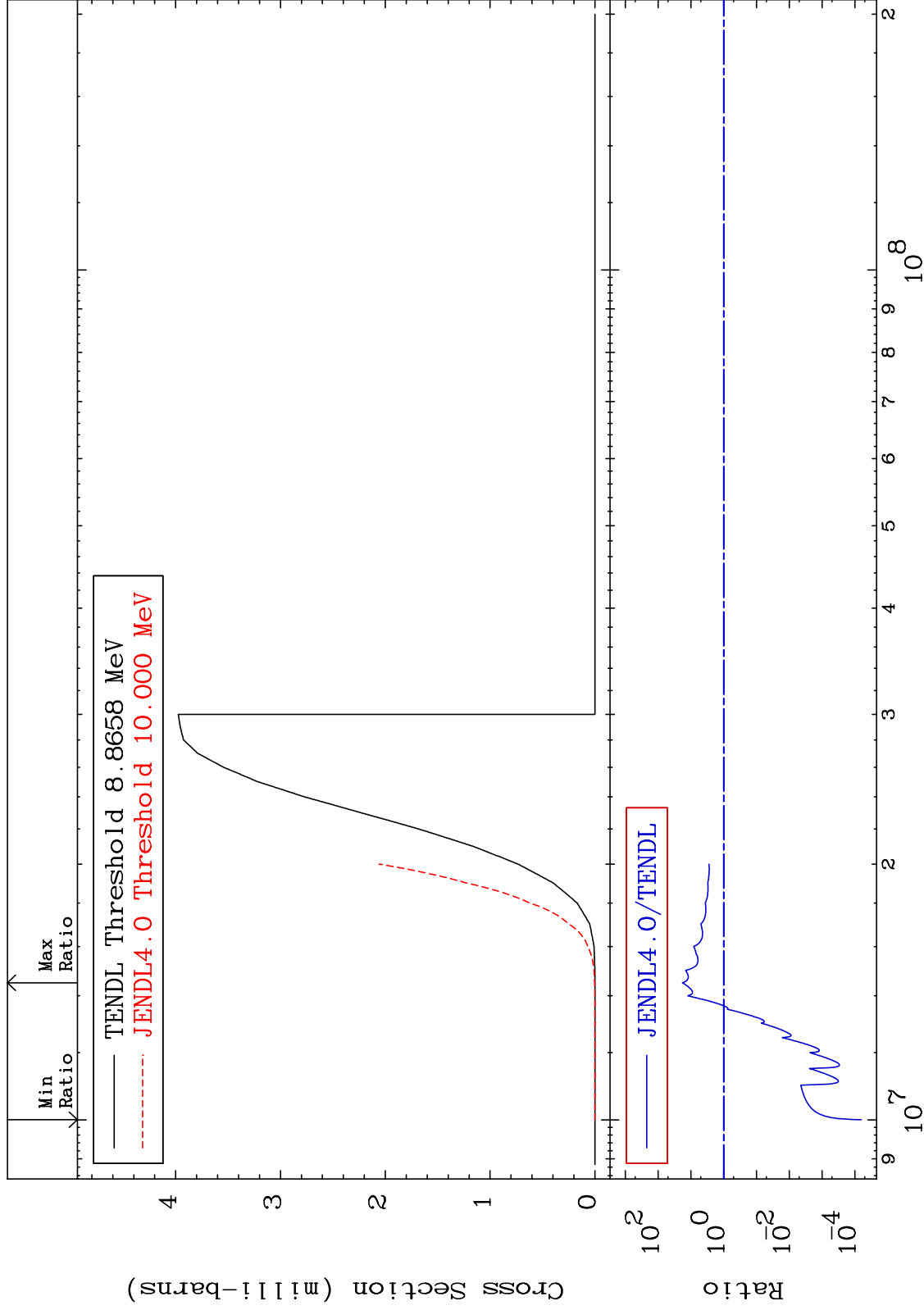
MAT 5649

(n,t)

56-Ba-138

Cross Section

-99.99 To 1719. %



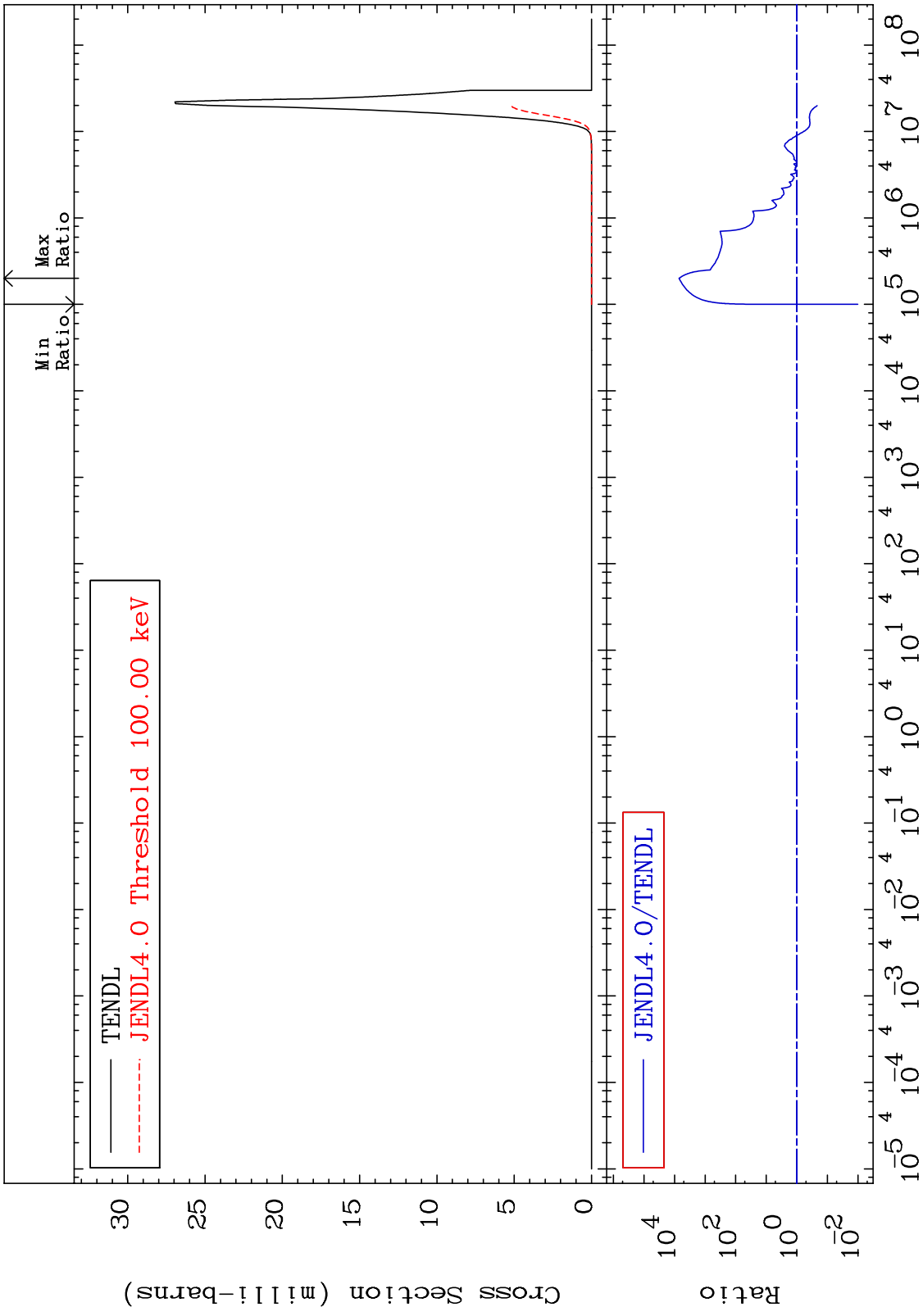
31

Incident Energy (eV)

56-Ba-138



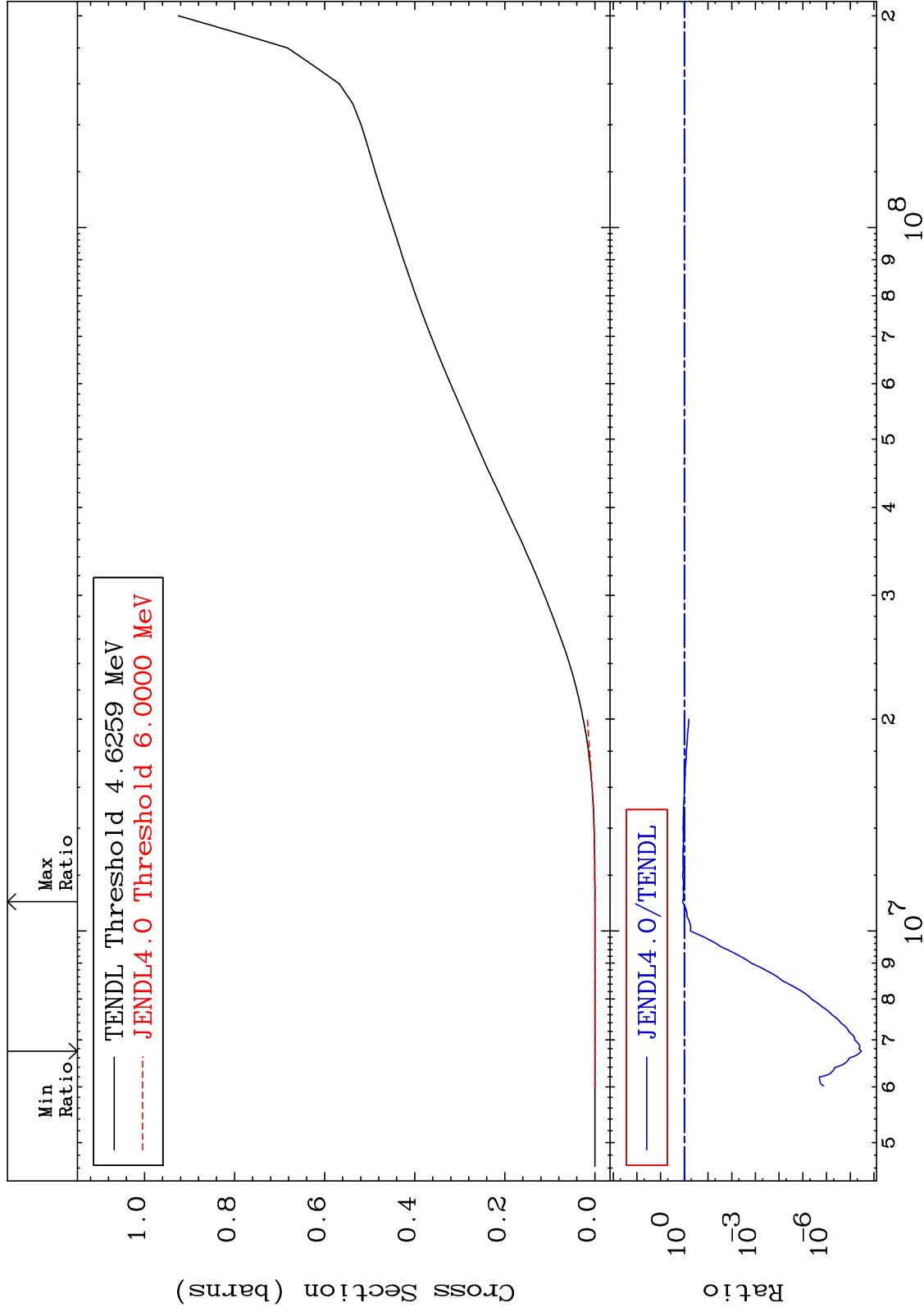
MAT 5649  $(n, \alpha)$  56-Ba-138  
 Cross Section -98.99 To 9999. %



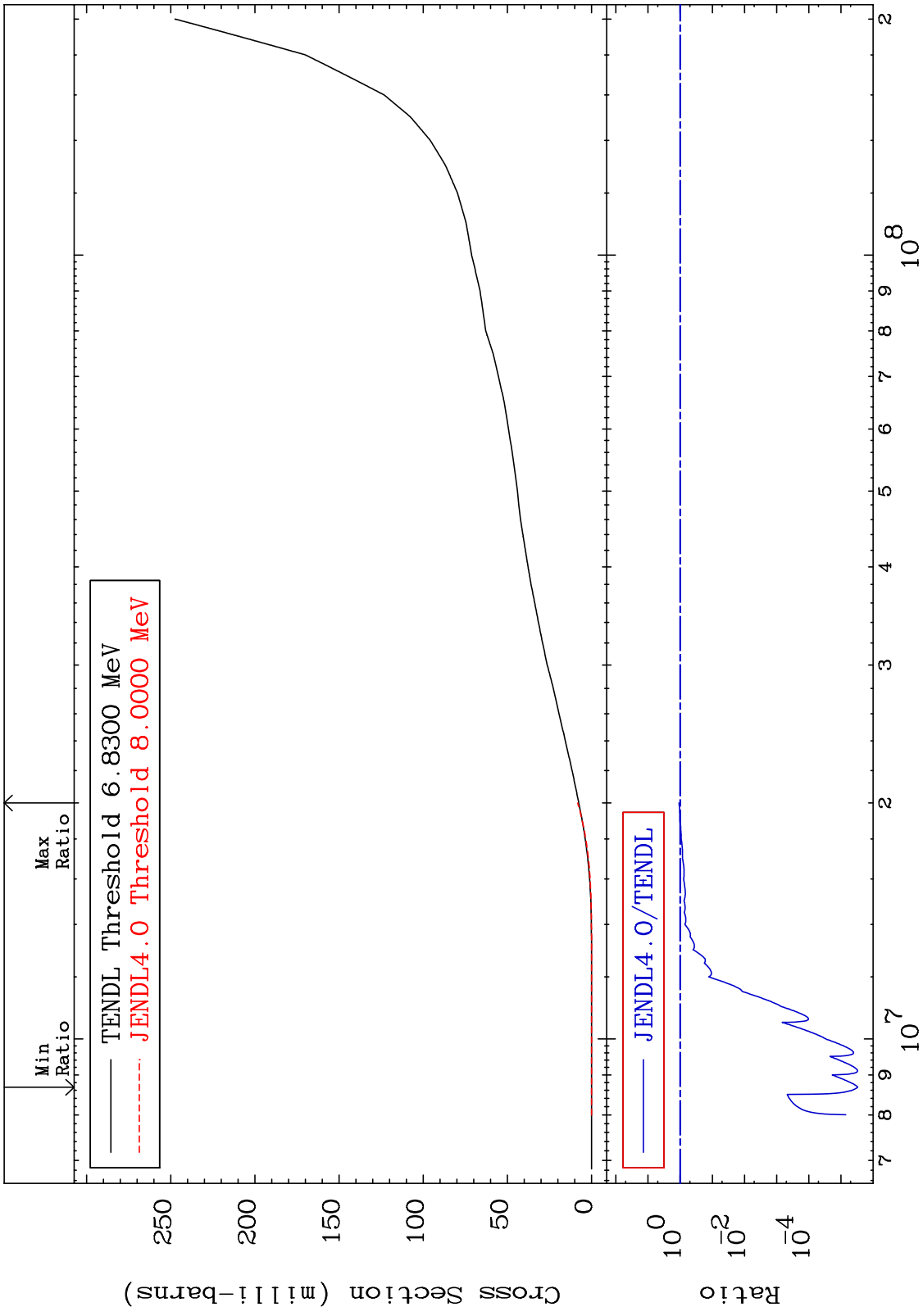
MAT 5649

Hydrogen Production  
Cross Section

56-Ba-138  
-100.0 To 19.80 %



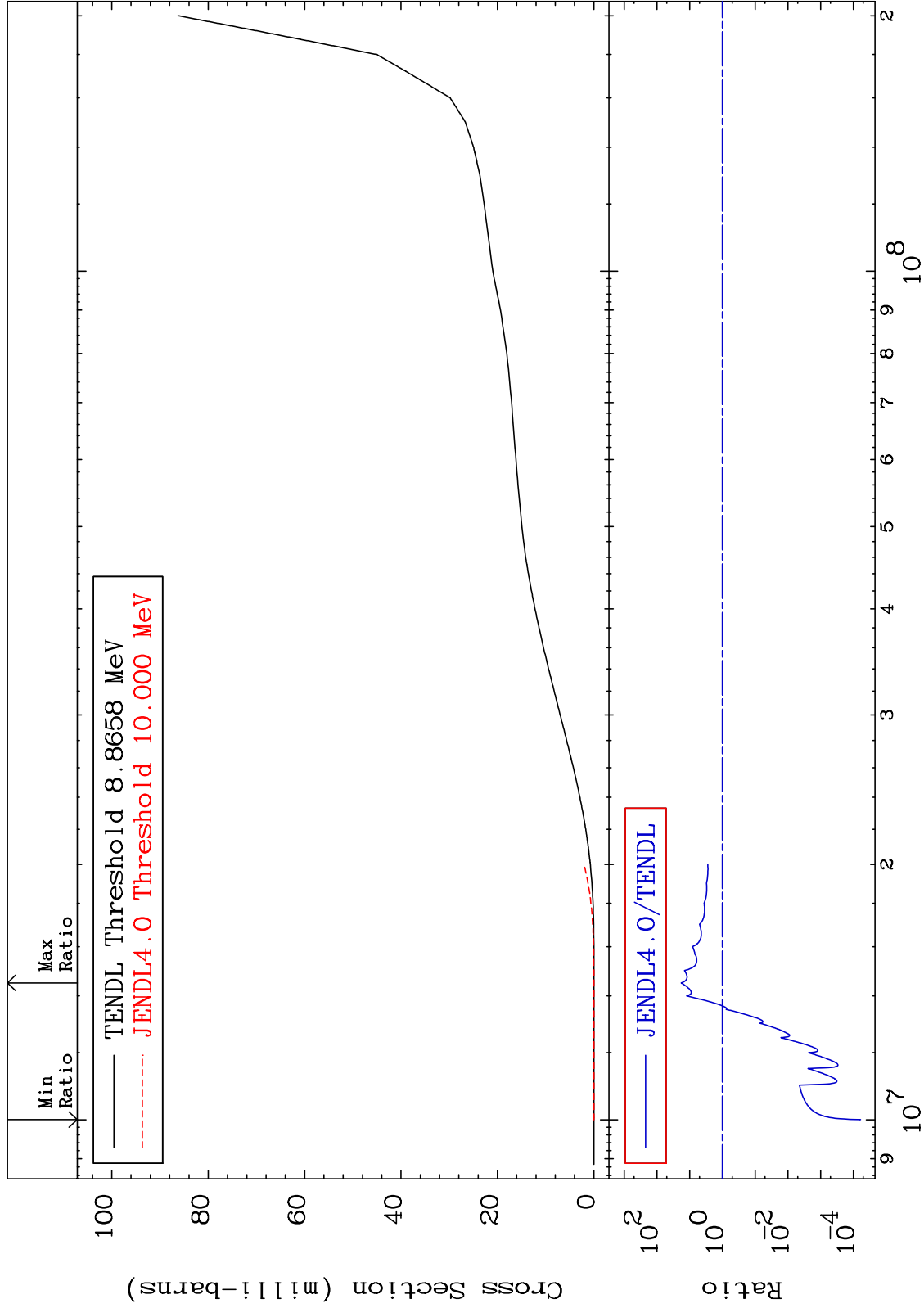
MAT 5649 Deuterium Production Cross Section 56-Ba-138 -100.0 To 8.454 %



MAT 5649

Tritium Production  
Cross Section

56-Ba-138  
-99.99 To 1719. %



35

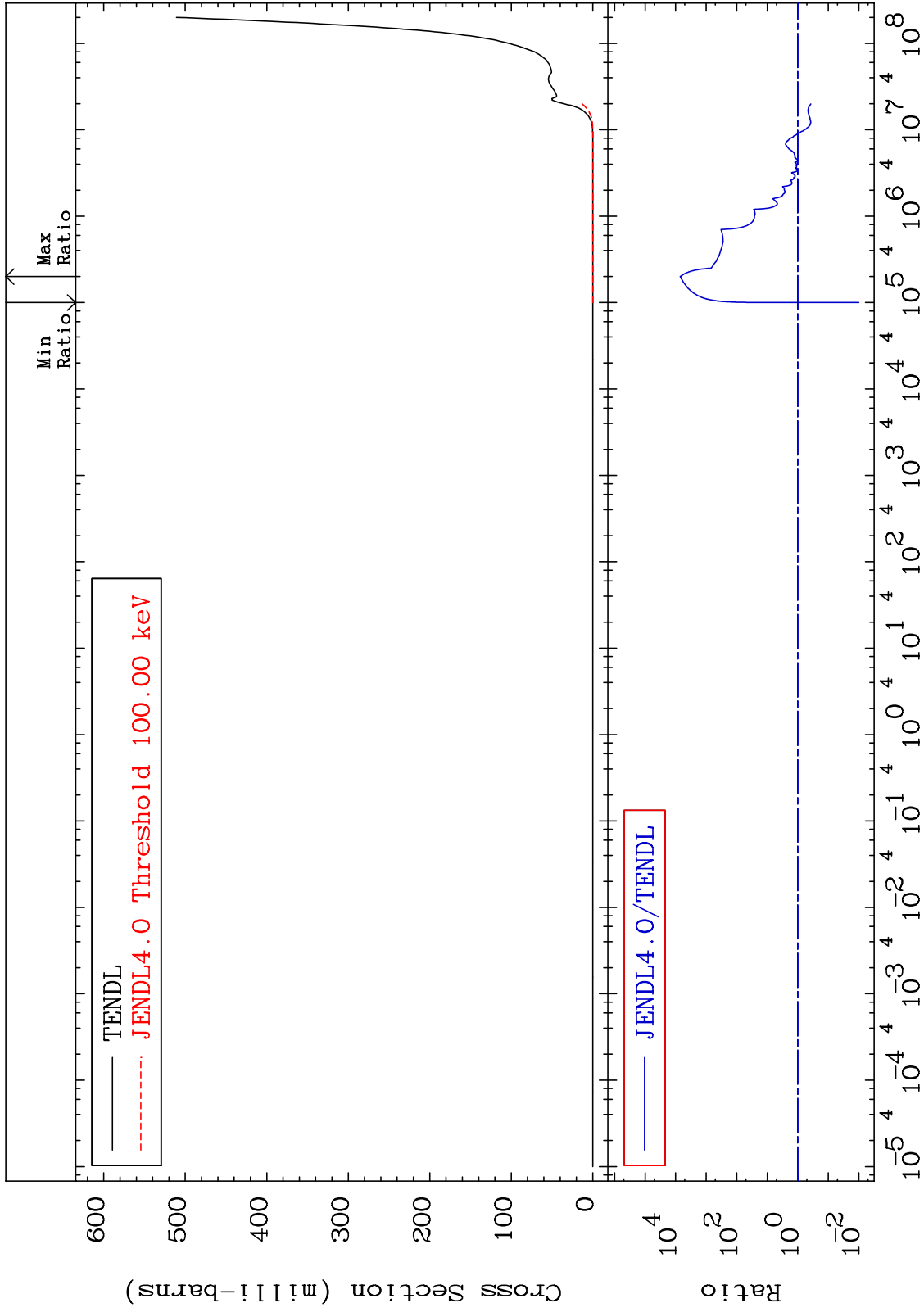
Incident Energy (eV)

56-Ba-138

MAT 5649

He-4 Production  
Cross Section

56-Ba-138  
-99.00 To 9999. %



36

Incident Energy (eV)

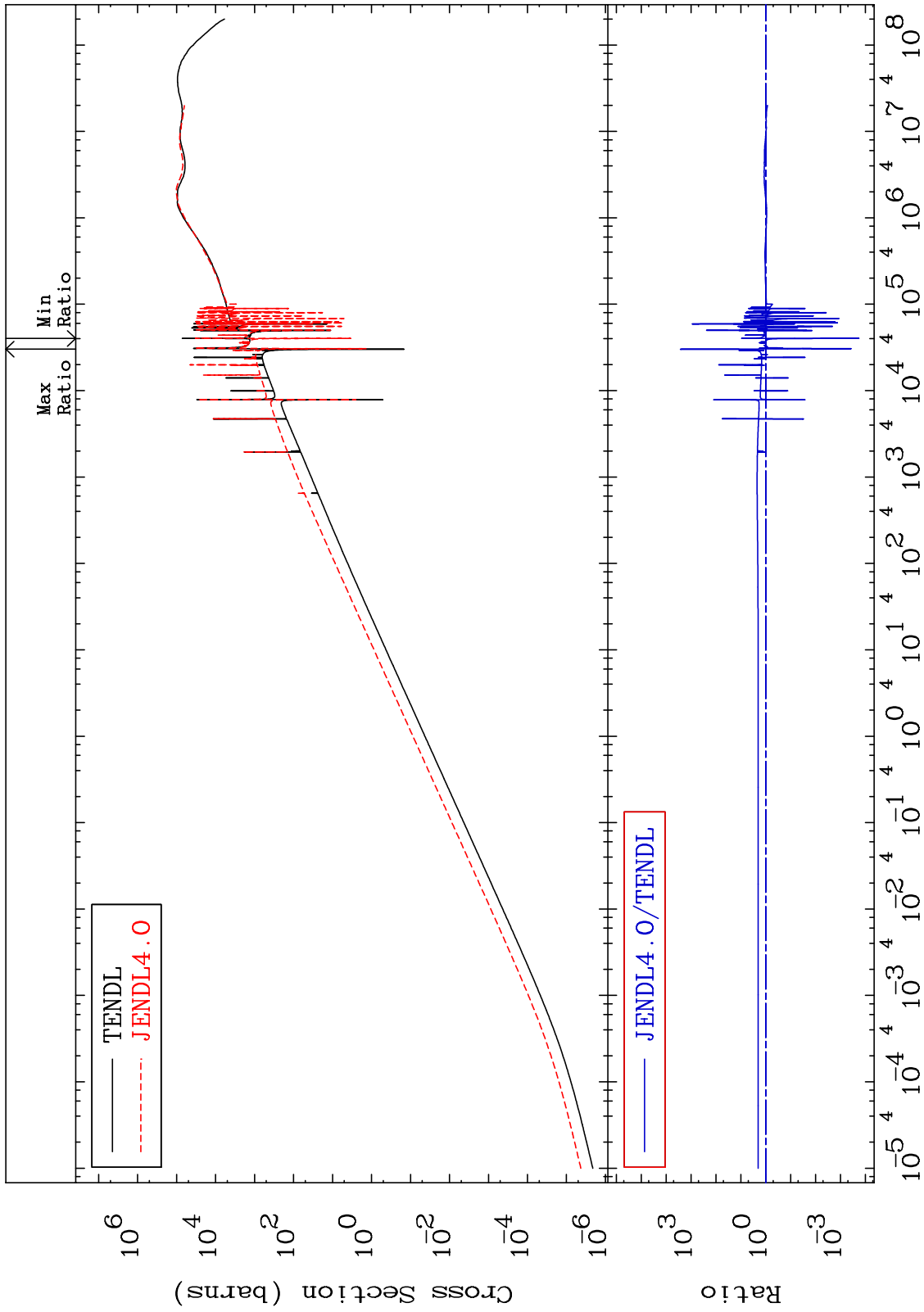
56-Ba-138



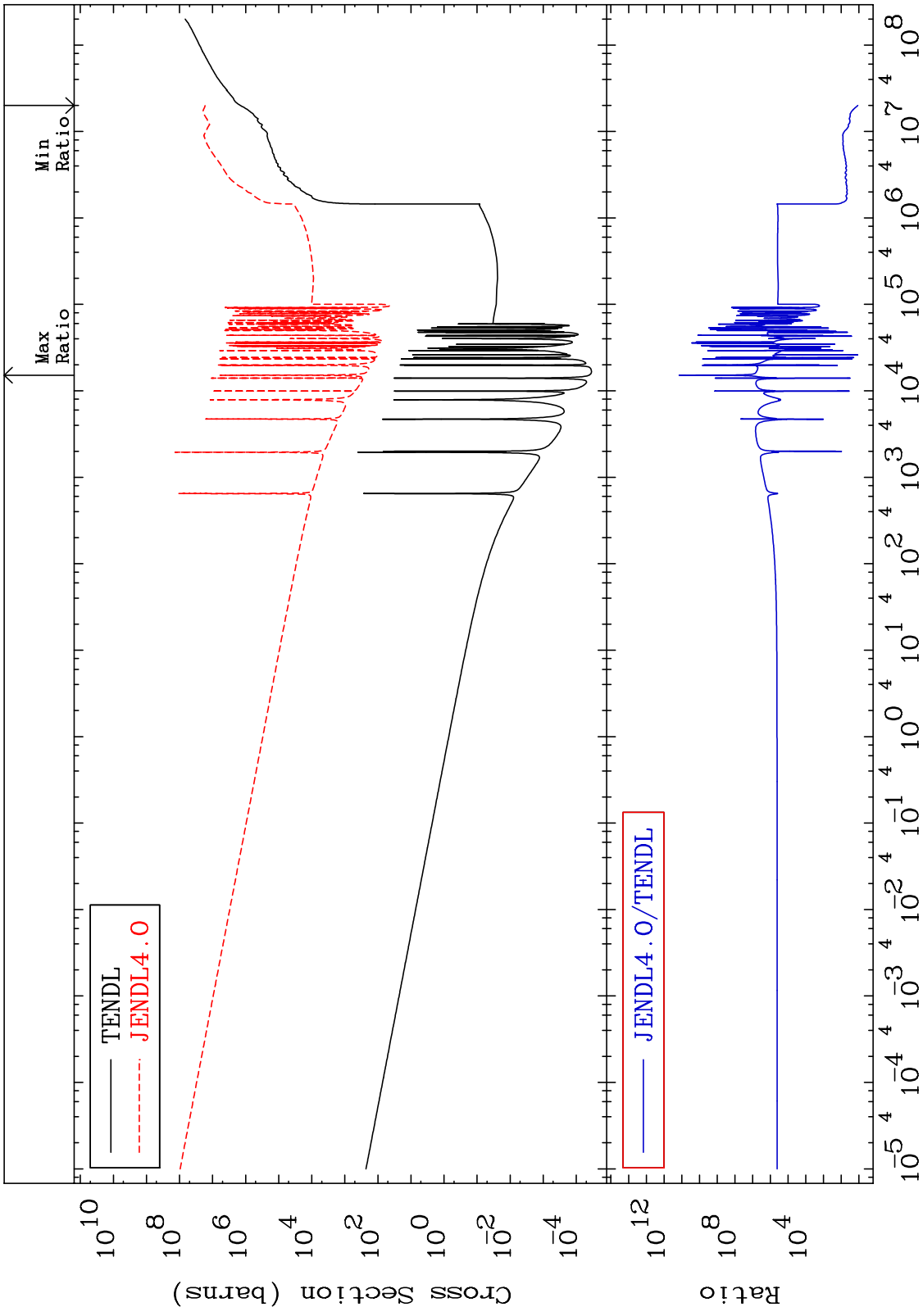
MAT 5649

Kerma elastic  
Cross Section

56-Ba-138  
-99.98 To 9999. %

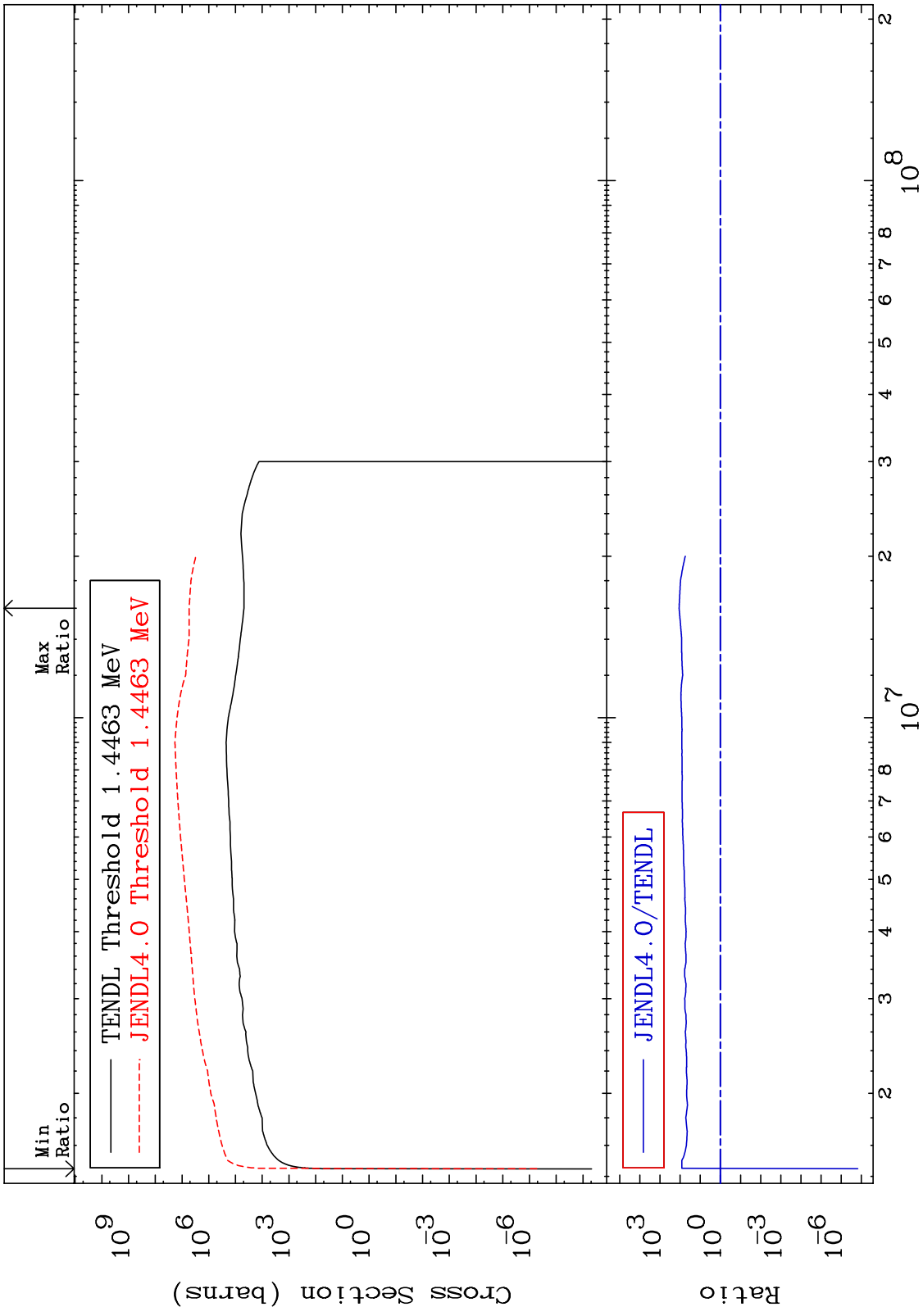


MAT 5649      Kerma non-elastic (all but mt2)      56-Ba-138  
 Cross Section      1060. To 9999. %





MAT 5649 Kerma inelastic (mt51-91) 56-Ba-138  
 -100.0 To 9999. %  
 Cross Section

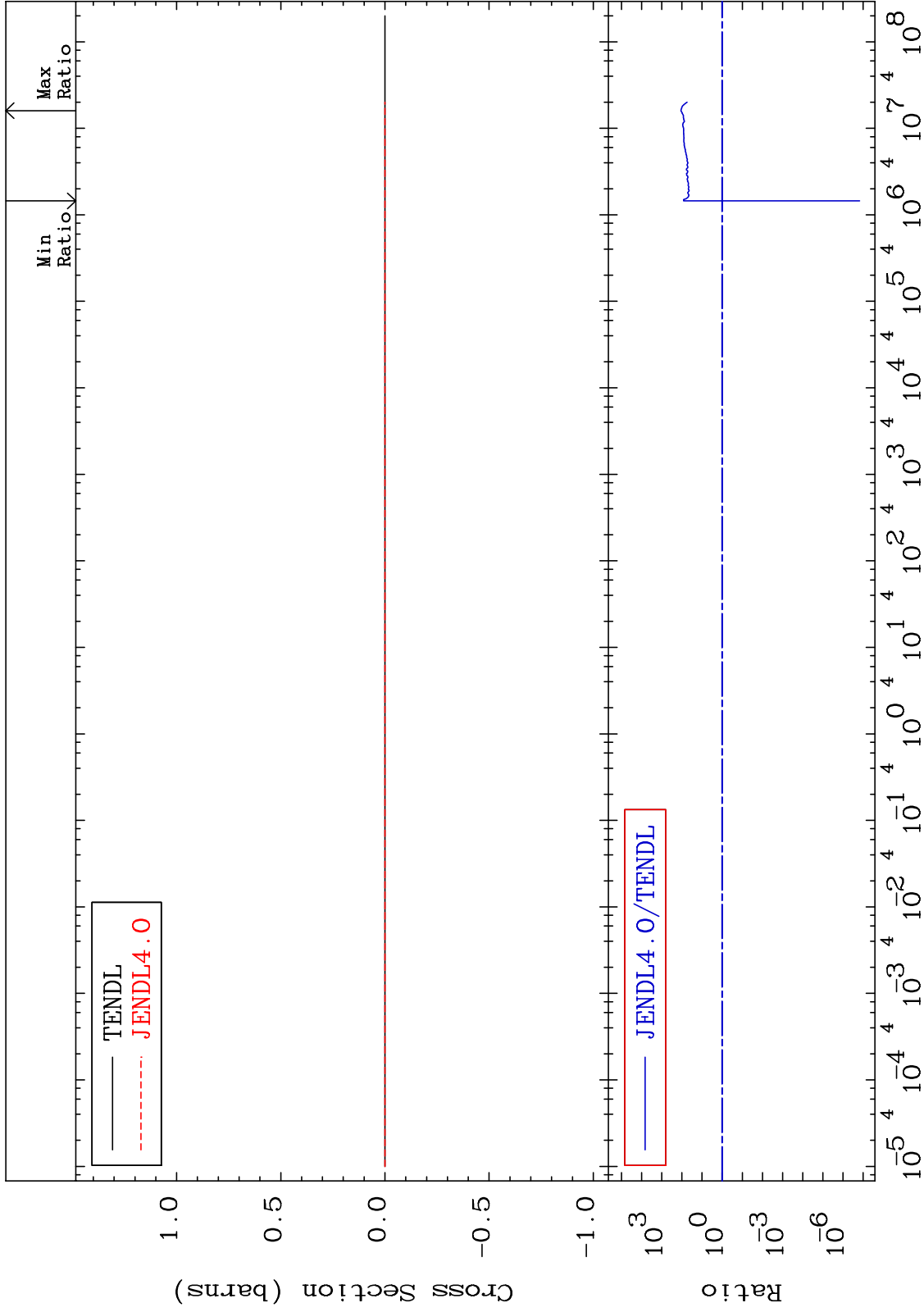


40 Incident Energy (eV) 56-Ba-138

MAT 5649

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

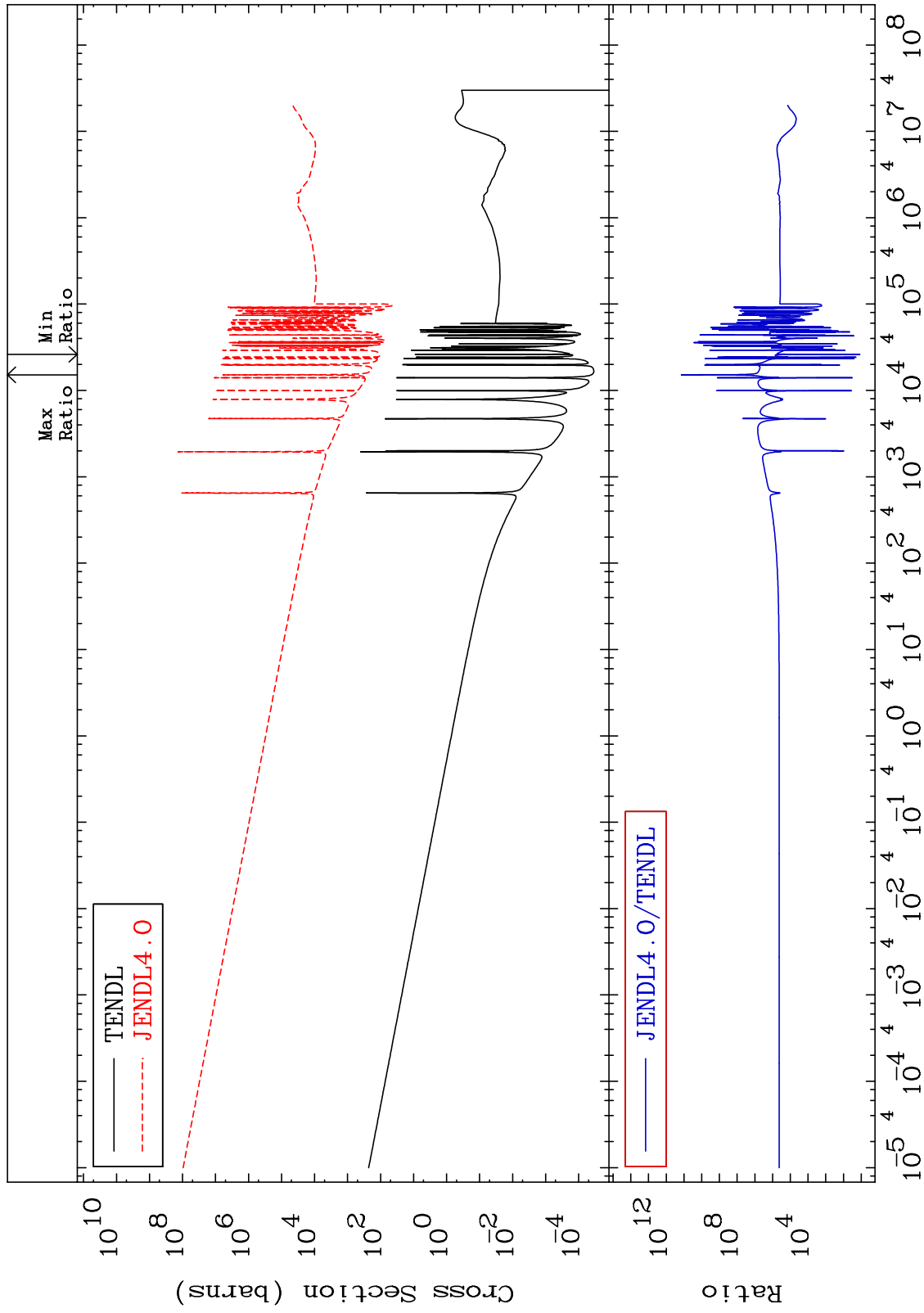
56-Ba-138  
-100.0 To 9999. %



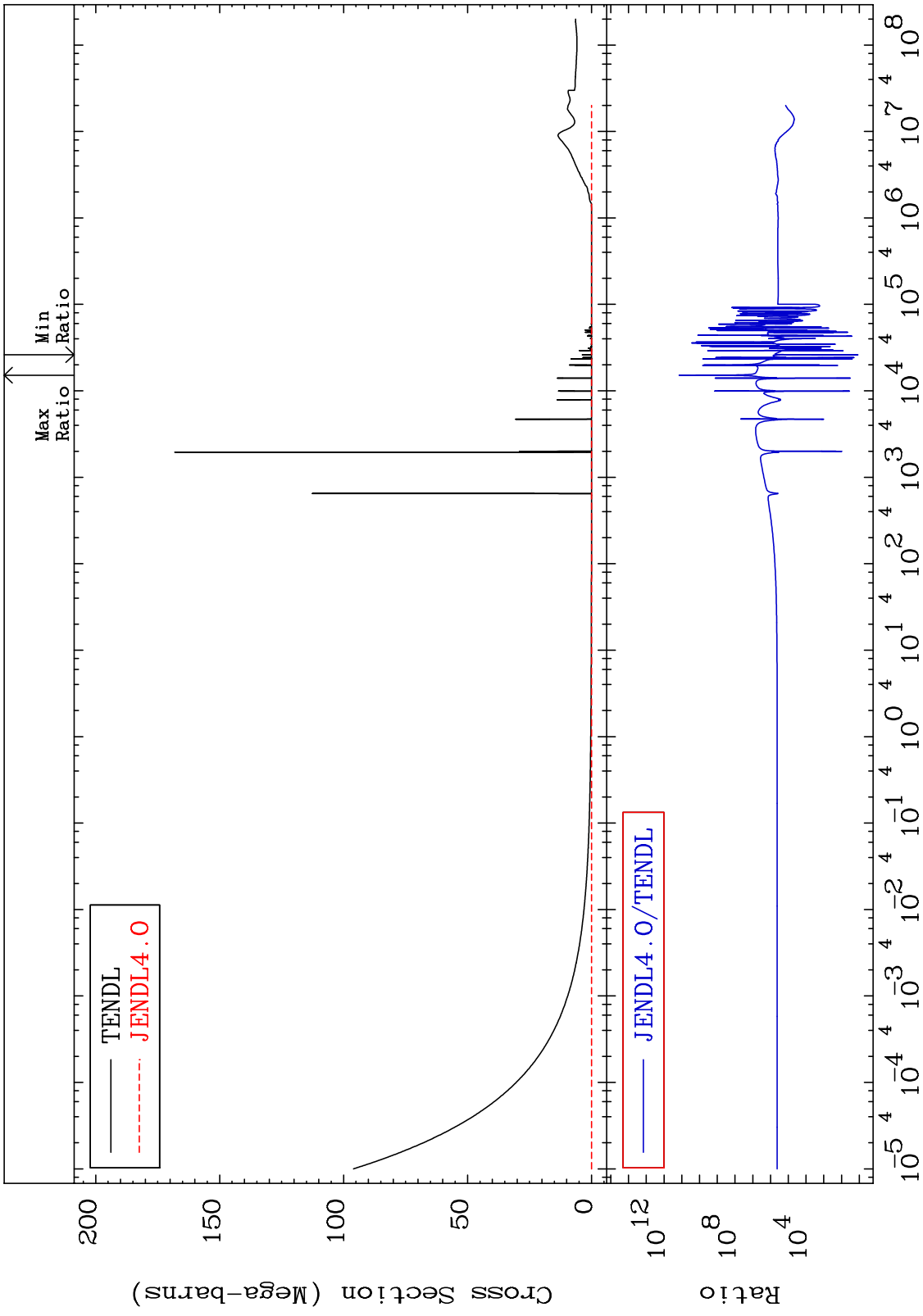
MAT 5649

Kerma capture (mt102)  
Cross Section

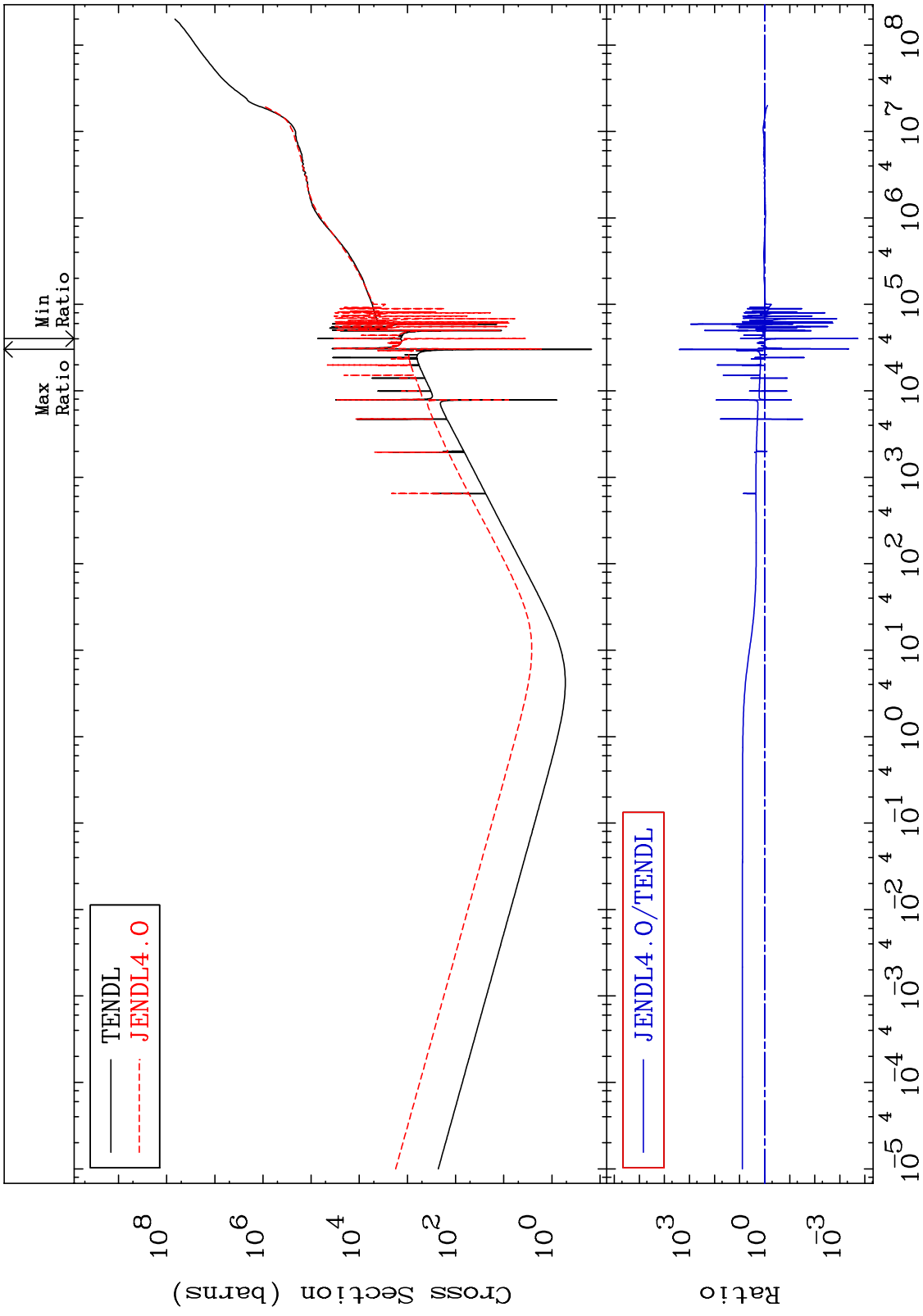
56-Ba-138  
1102. To 9999. %



MAT 5649 Total photon (eV-barns) Cross Section 56-Ba-138 To 9999. %



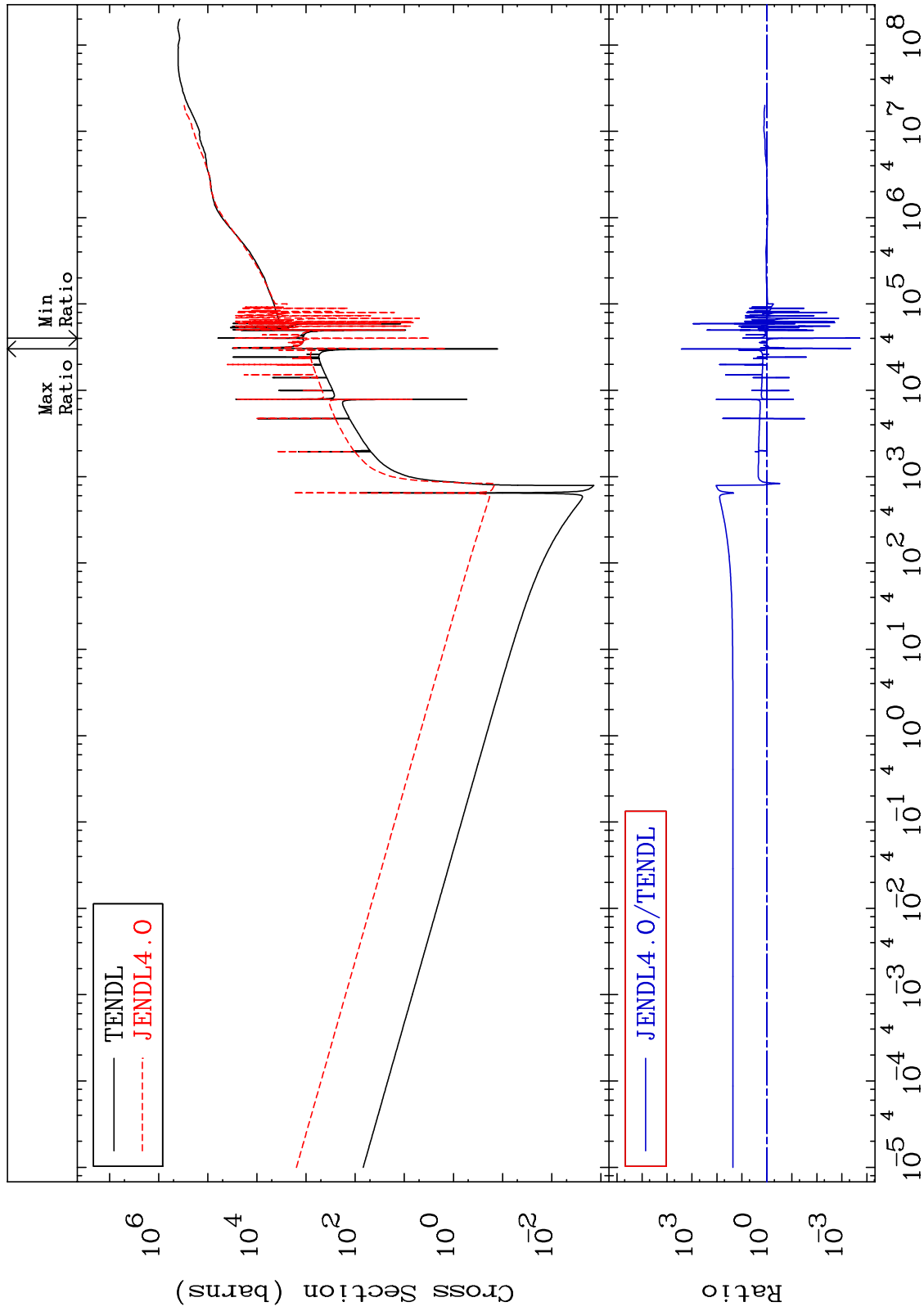
MAT 5649 Total kinematic kerma (high limit) 56-Ba-138  
 Cross Section -99.98 To 9999. %



MAT 5649

Dpa total (eV-barns)  
Cross Section

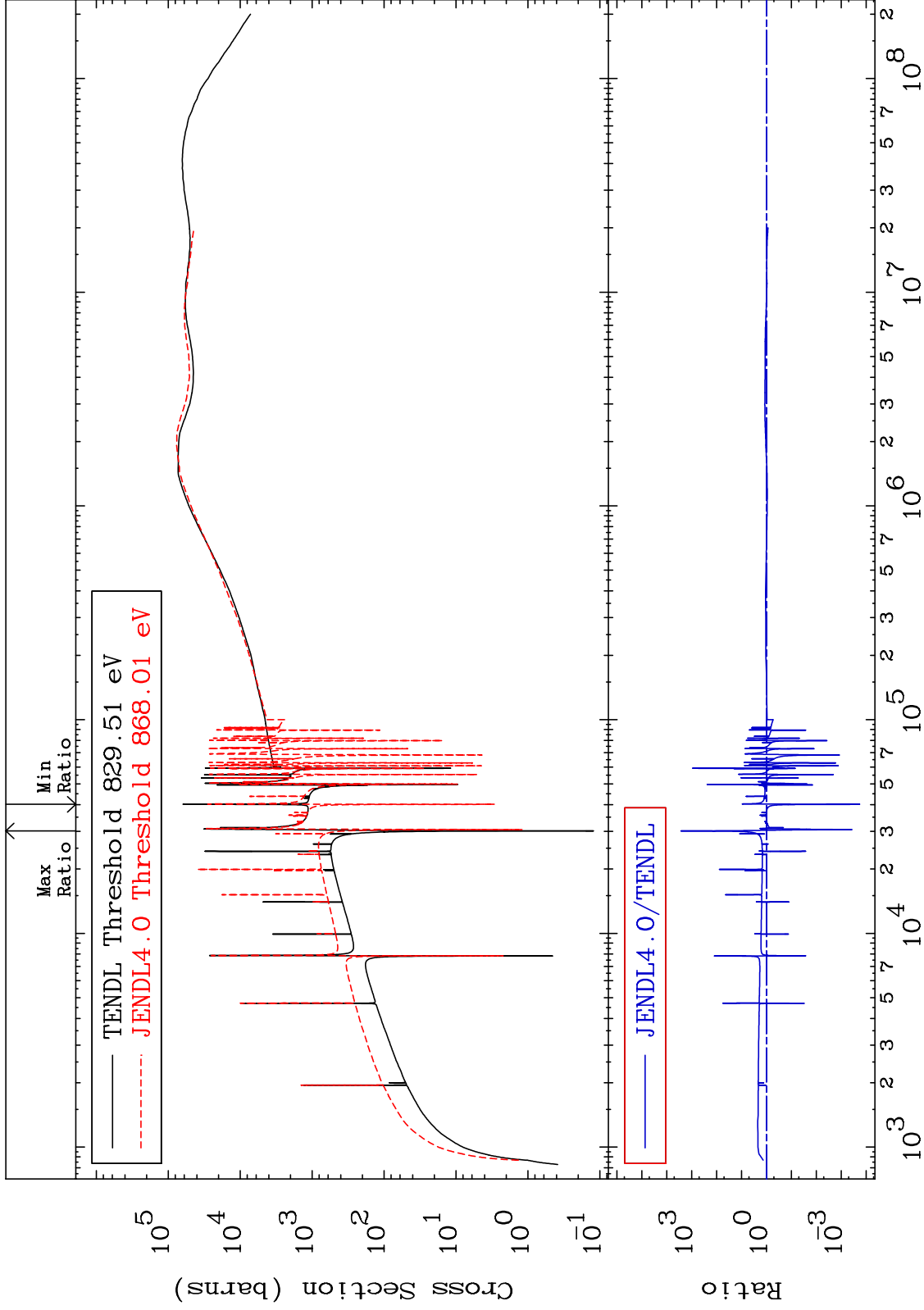
56-Ba-138  
-99.98 To 9999. %



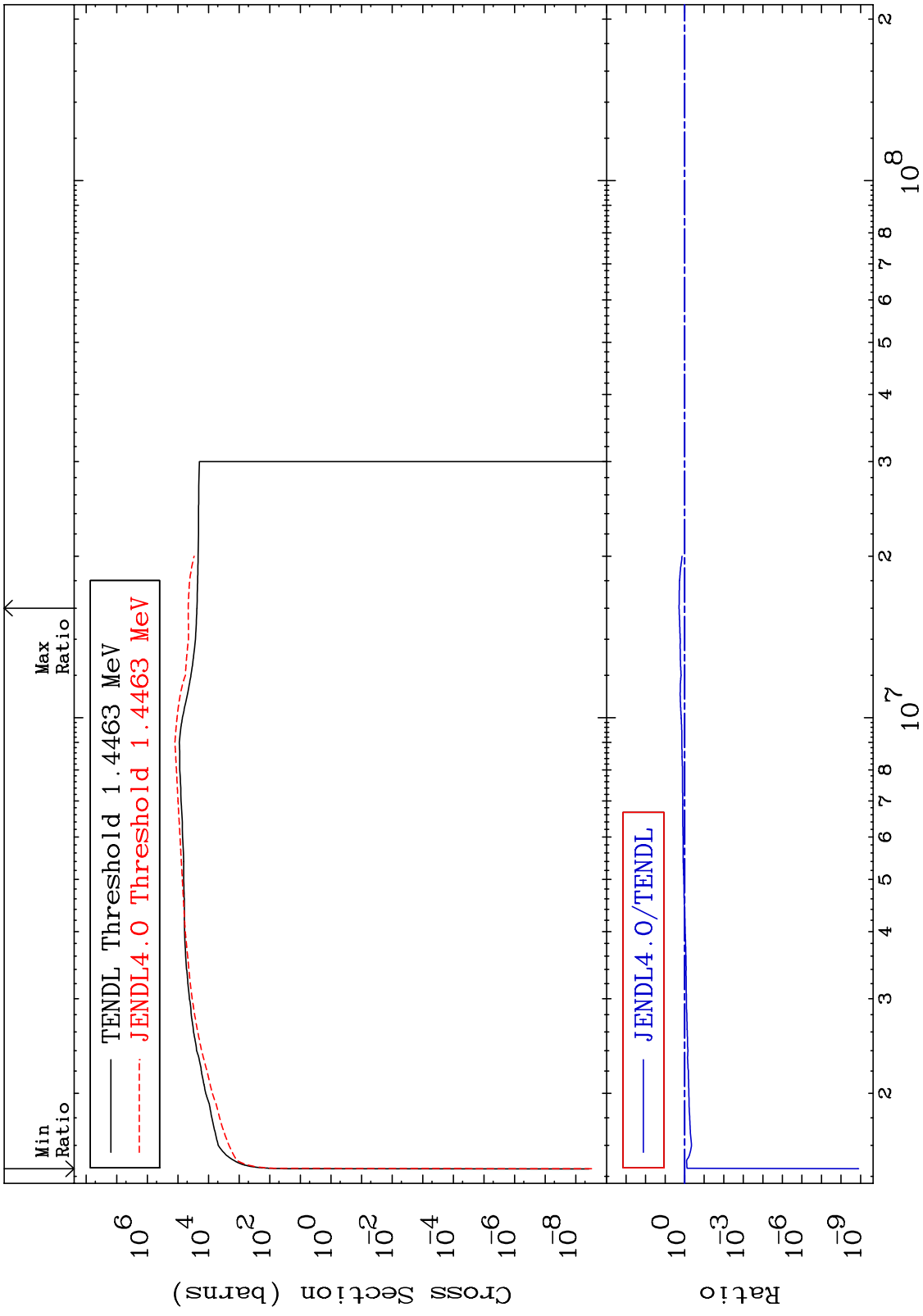
MAT 5649

Dpa elastic (mt2)  
Cross Section

56-Ba-138  
-99.98 To 9999. %



MAT 5649      Dpa inelastic (mt51-91)      56-Ba-138  
 Cross Section      -100.0 To 93.96 %





MAT 5649      Dpa disappearance (mt102 -120)      56-Ba-138  
 Cross Section      -99.80 To 9999. %

