

Program Complot  
(Version 2018-1)

by

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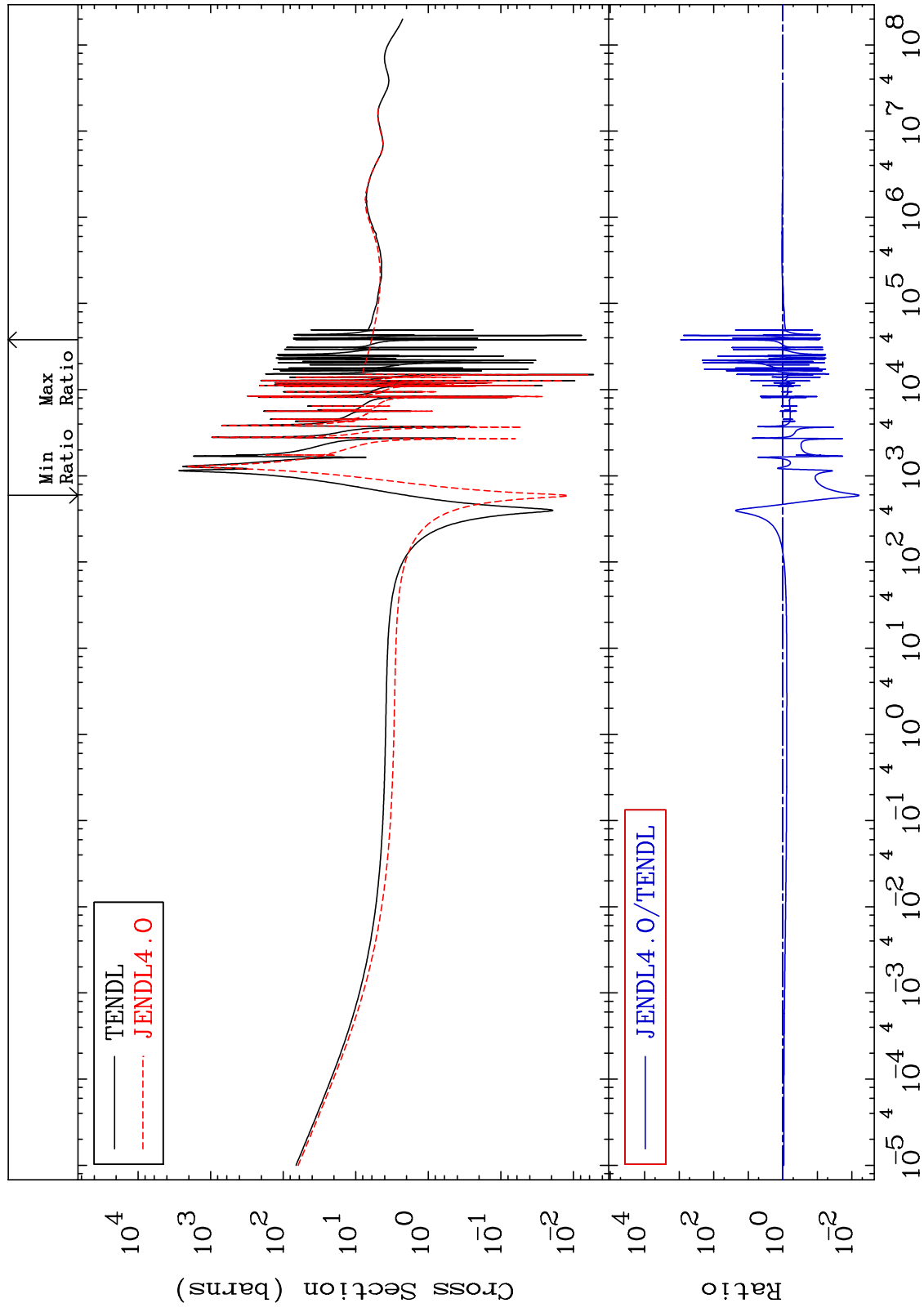
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 5843

Total  
Cross Section

58-Ce-142  
-99.38 To 9999. %



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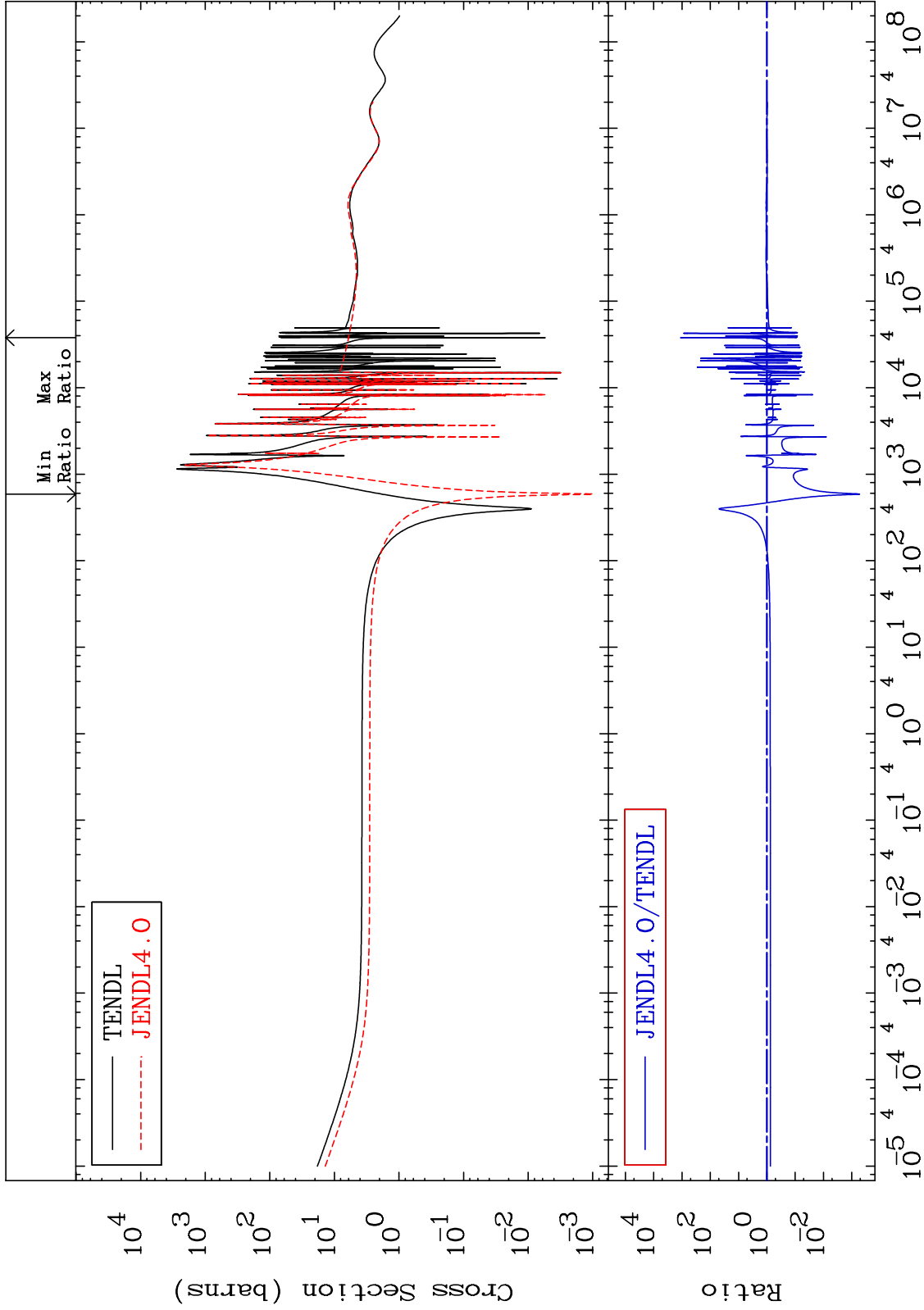
Incident Energy (eV)

58-Ce-142

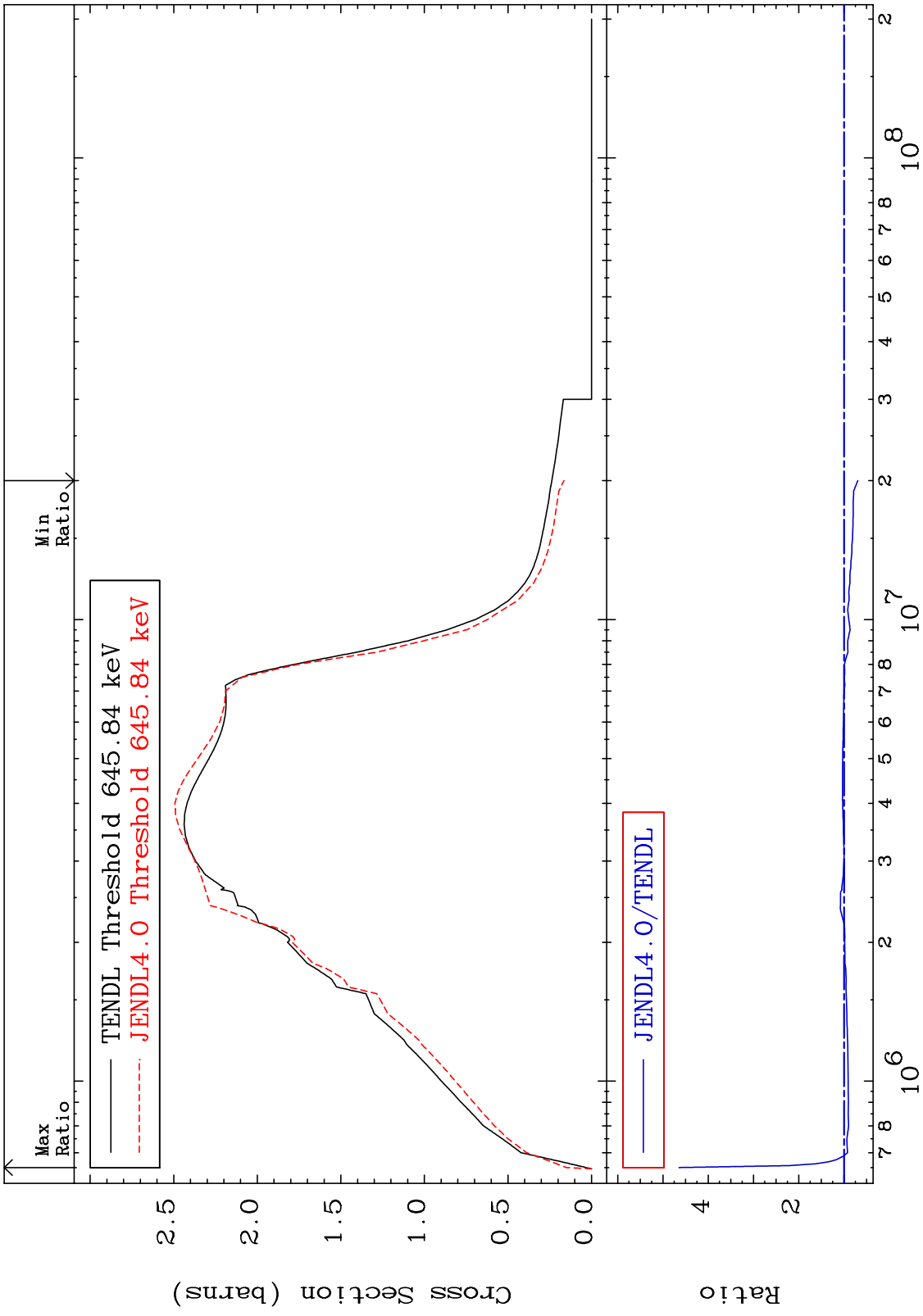
MAT 5843

Elastic  
Cross Section

58-Ce-142  
-99.95 To 9999. %

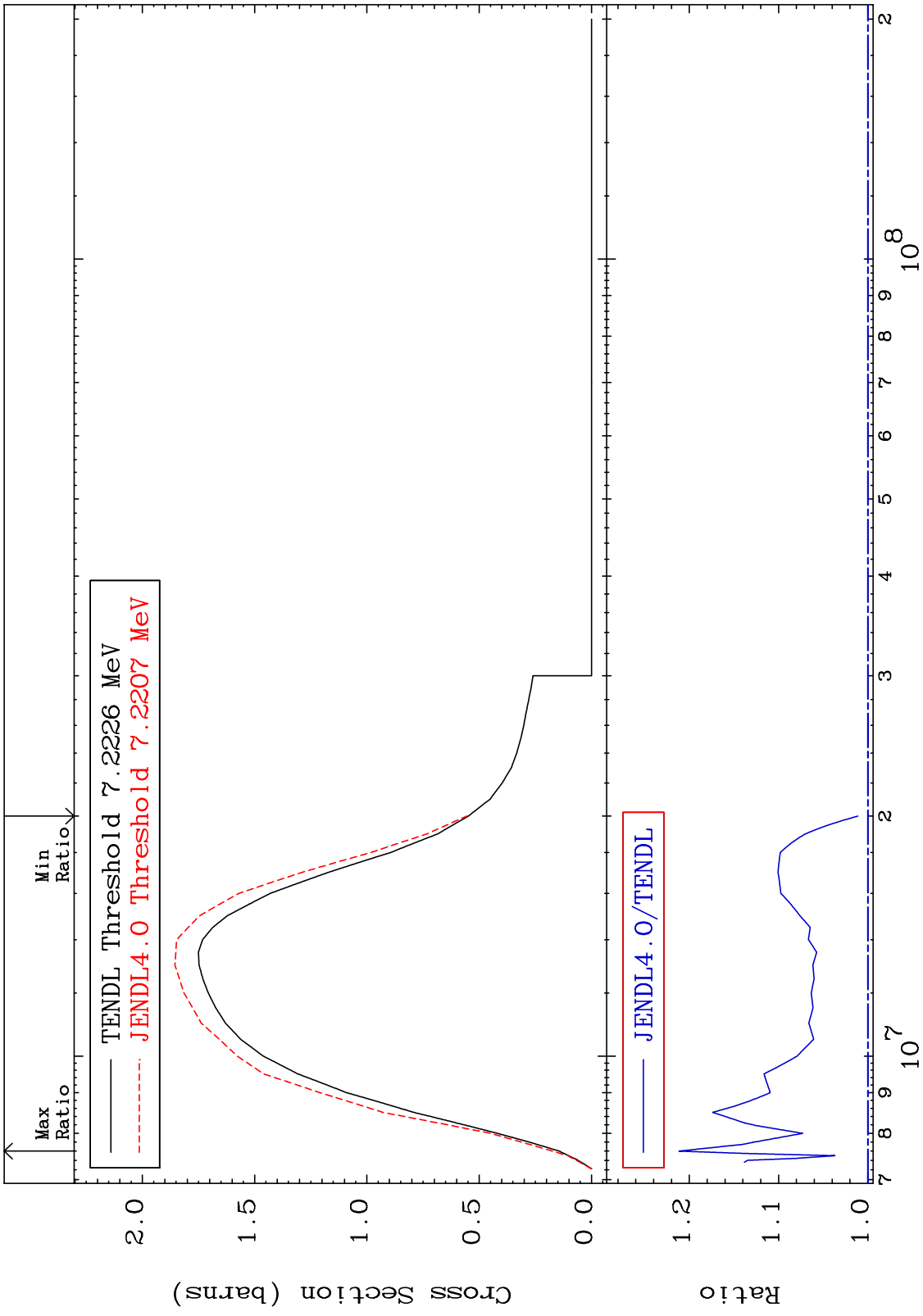


MAT 5843 Inelastic Cross Section 58-Ce-142 -30.61 To 364.4 %



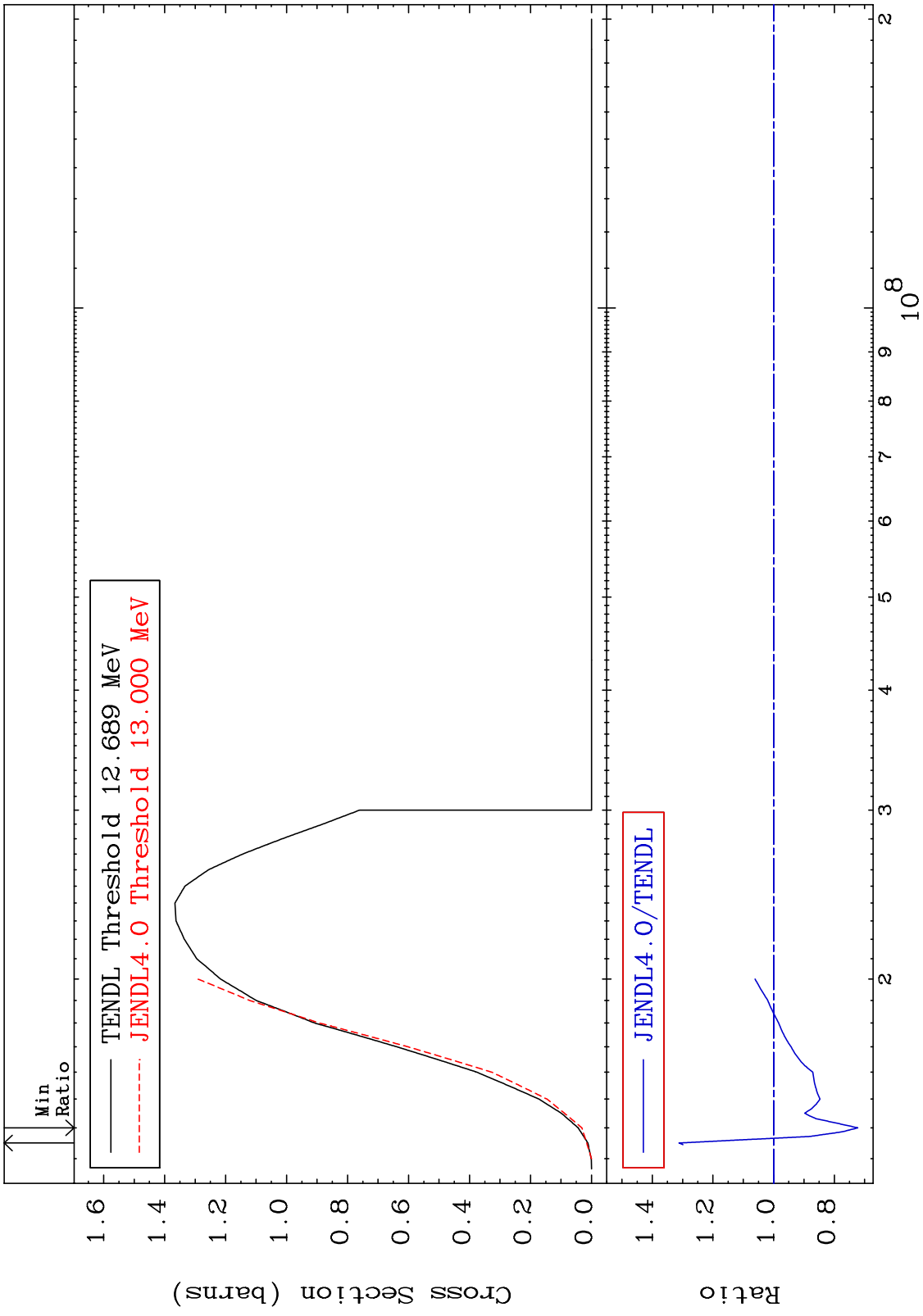
3 Incident Energy (eV) 58-Ce-142

MAT 5843 (n,2n) Cross Section 58-Ce-142 1.121 To 21.15 %



4 Incident Energy (eV) 58-Ce-142

MAT 5843 (n,3n) Cross Section 58-Ce-142 -27.76 To 31.18 %



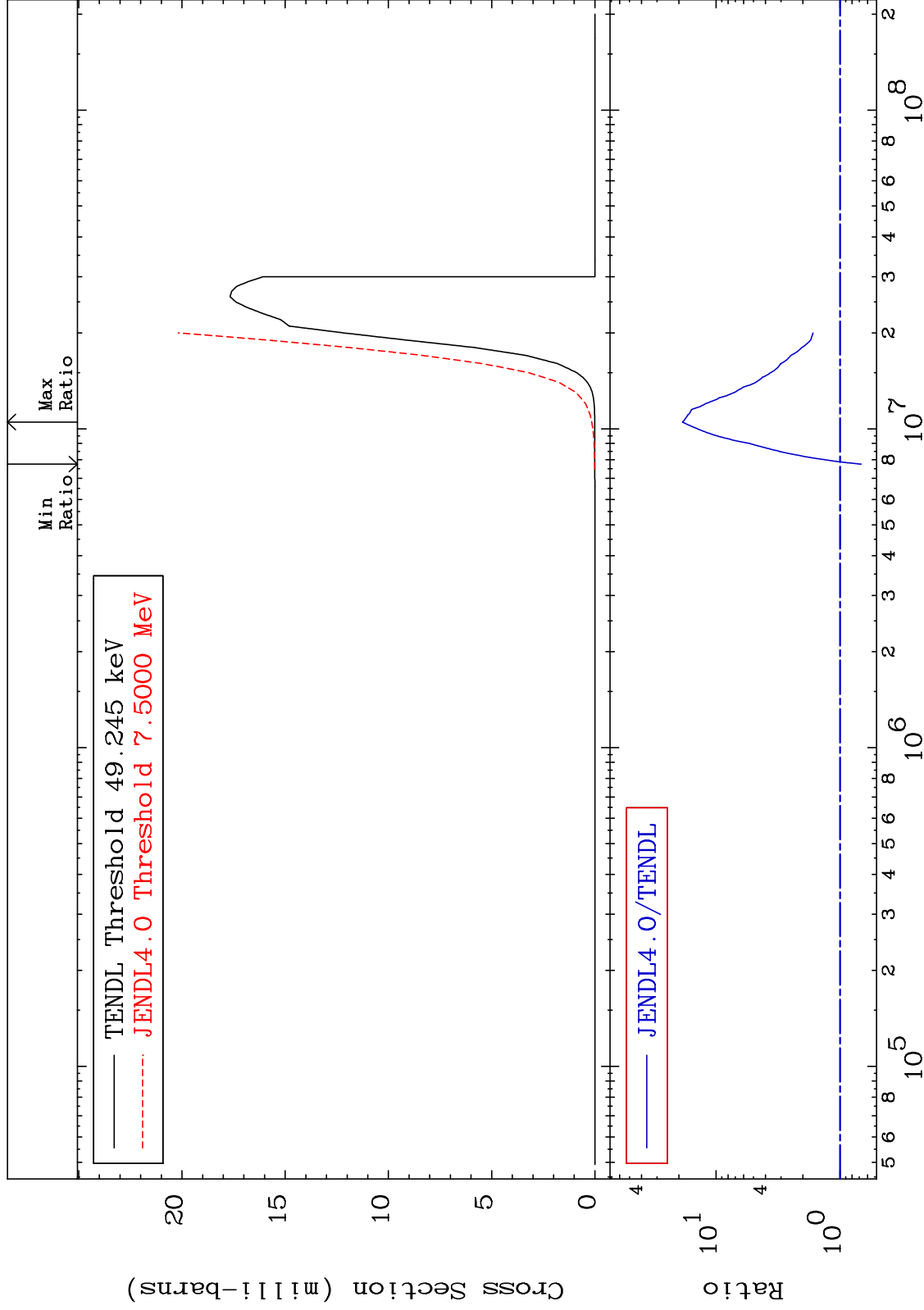
MAT 5843

(n, n')  $\alpha$

58-Ce-142

-32.53 To 1770. %

Cross Section

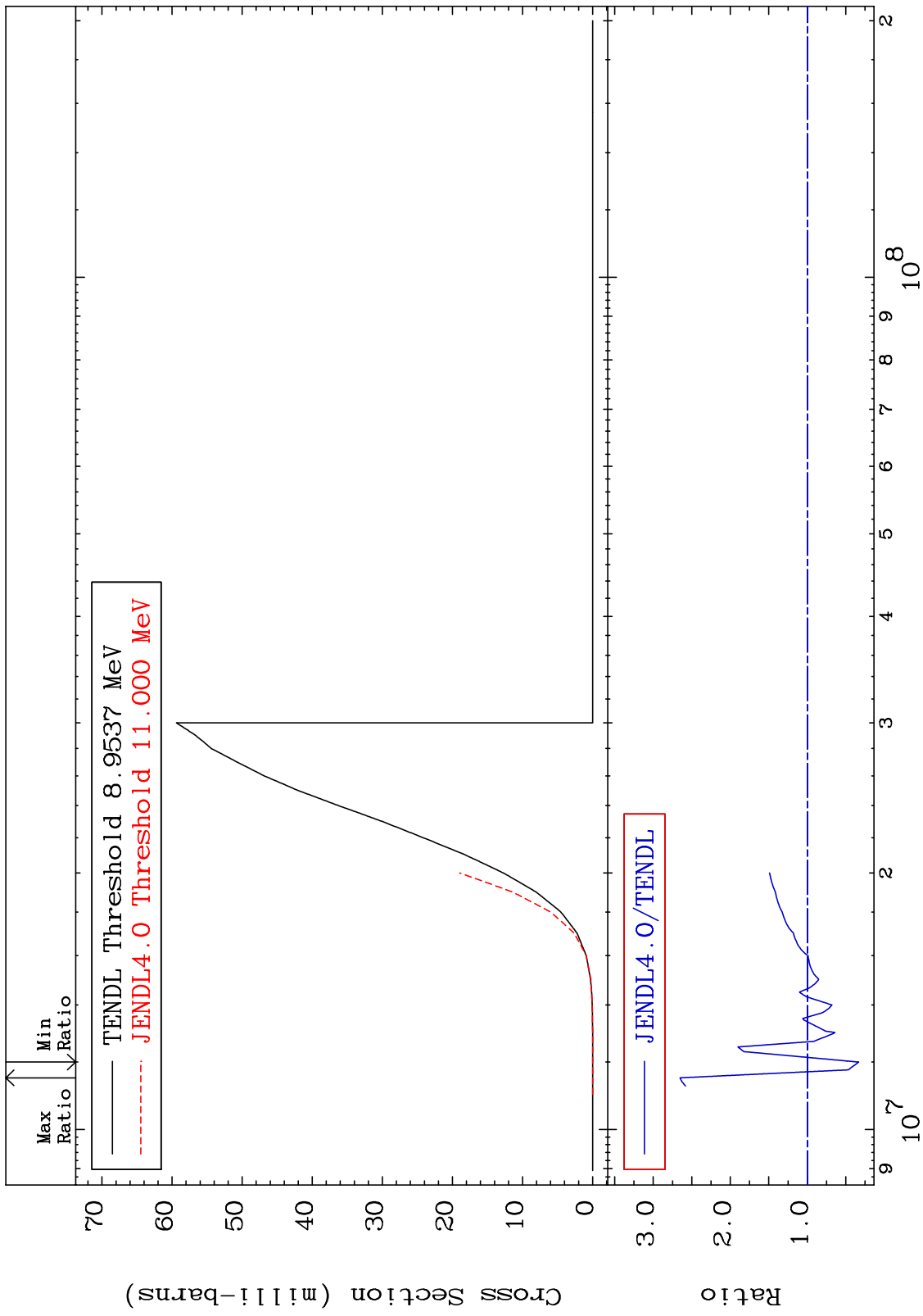


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Incident Energy (eV)

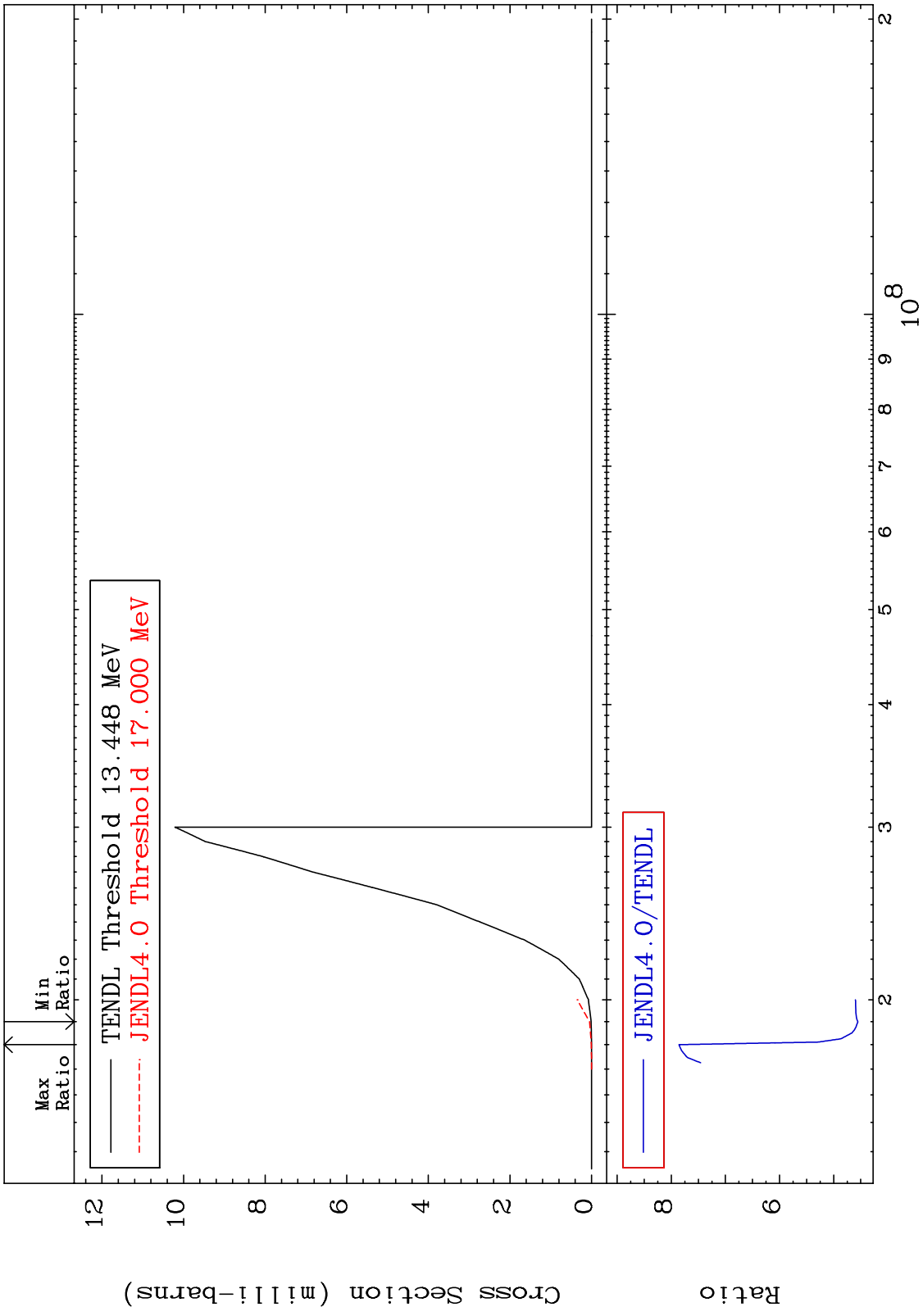
58-Ce-142

MAT 5843 (n,n') p 58-Ce-142  
Cross Section -66.73 To 165.2 %

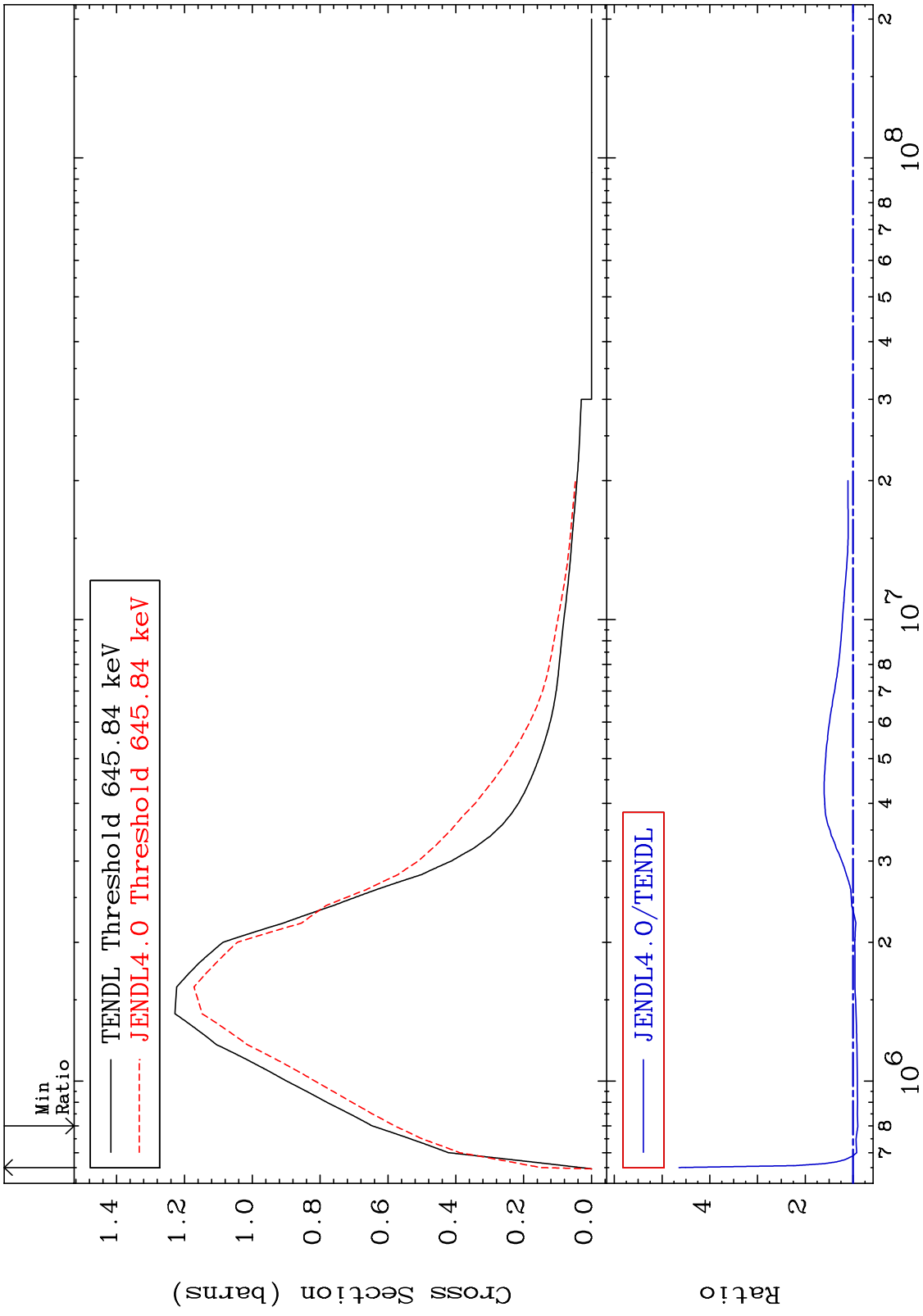




MAT 5843 (n,n') d 58-Ce-142  
 Cross Section 355.3 To 685.7 %

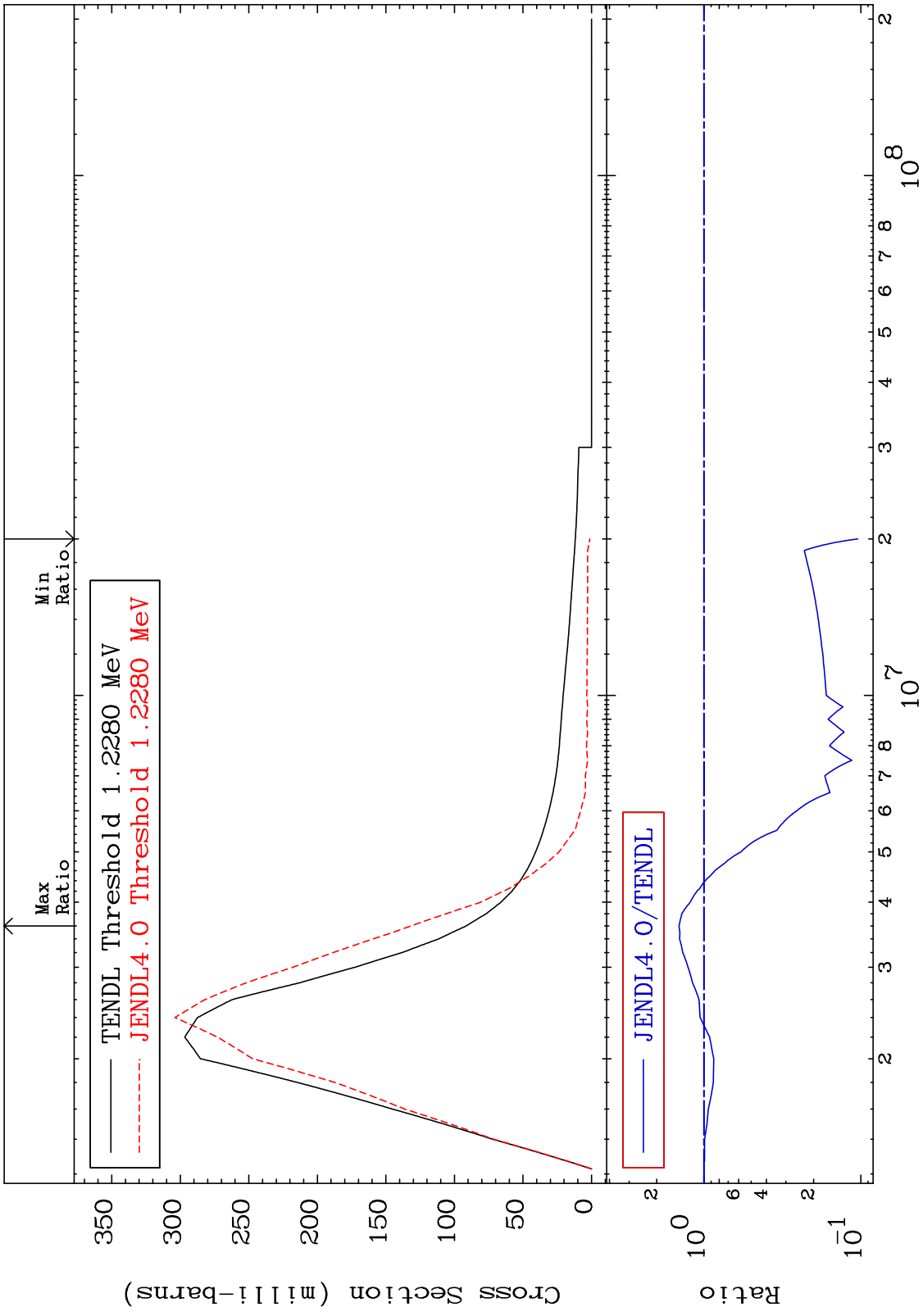


MAT 5843 MT= 51 (n,n') Level Cross Section 58-Ce-142  
-10.20 To 364.4 %



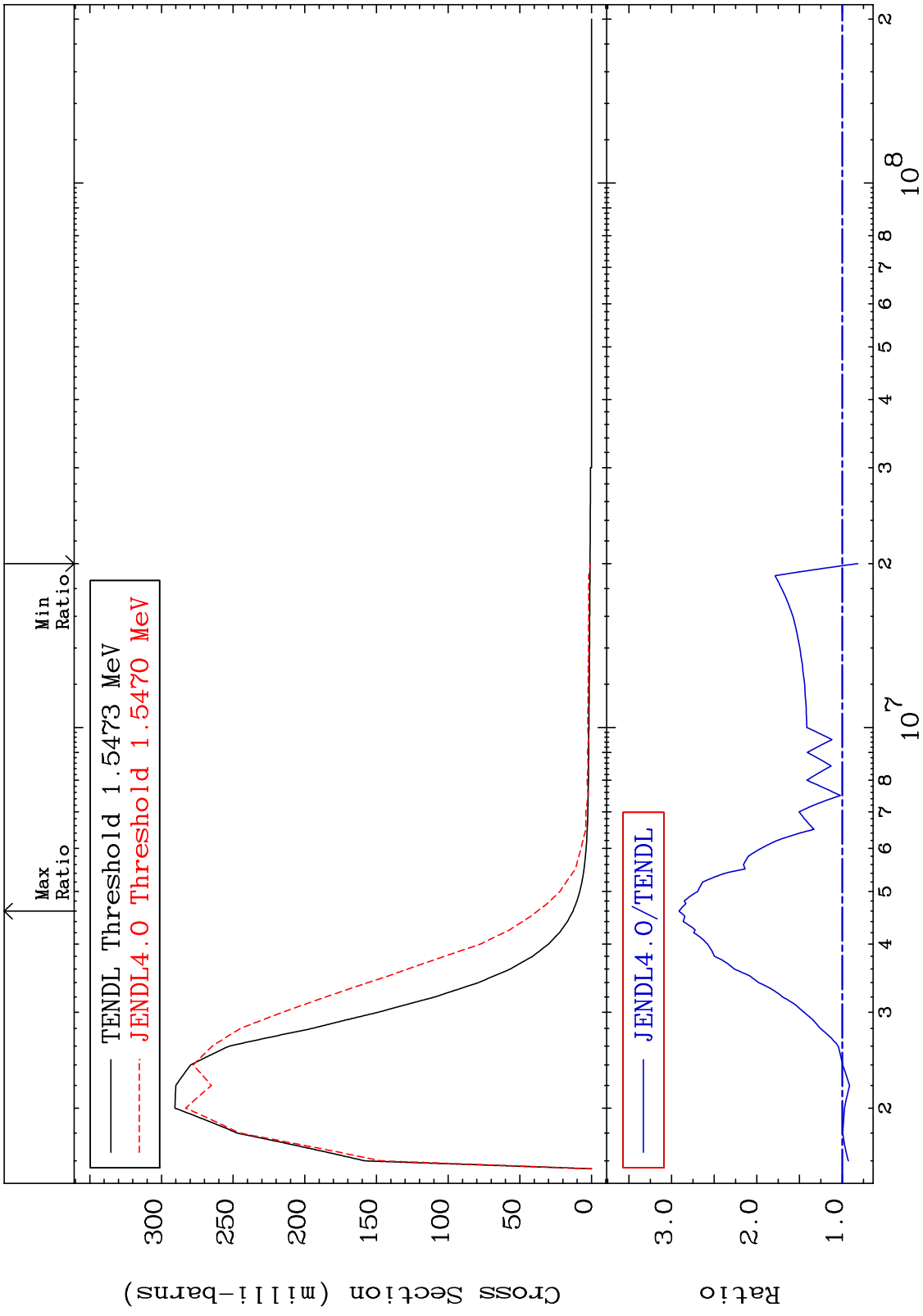
9 Incident Energy (eV) 58-Ce-142

MAT 5843 MT= 52 (n,n') Level Cross Section 58-Ce-142 -89.56 To 44.09 %

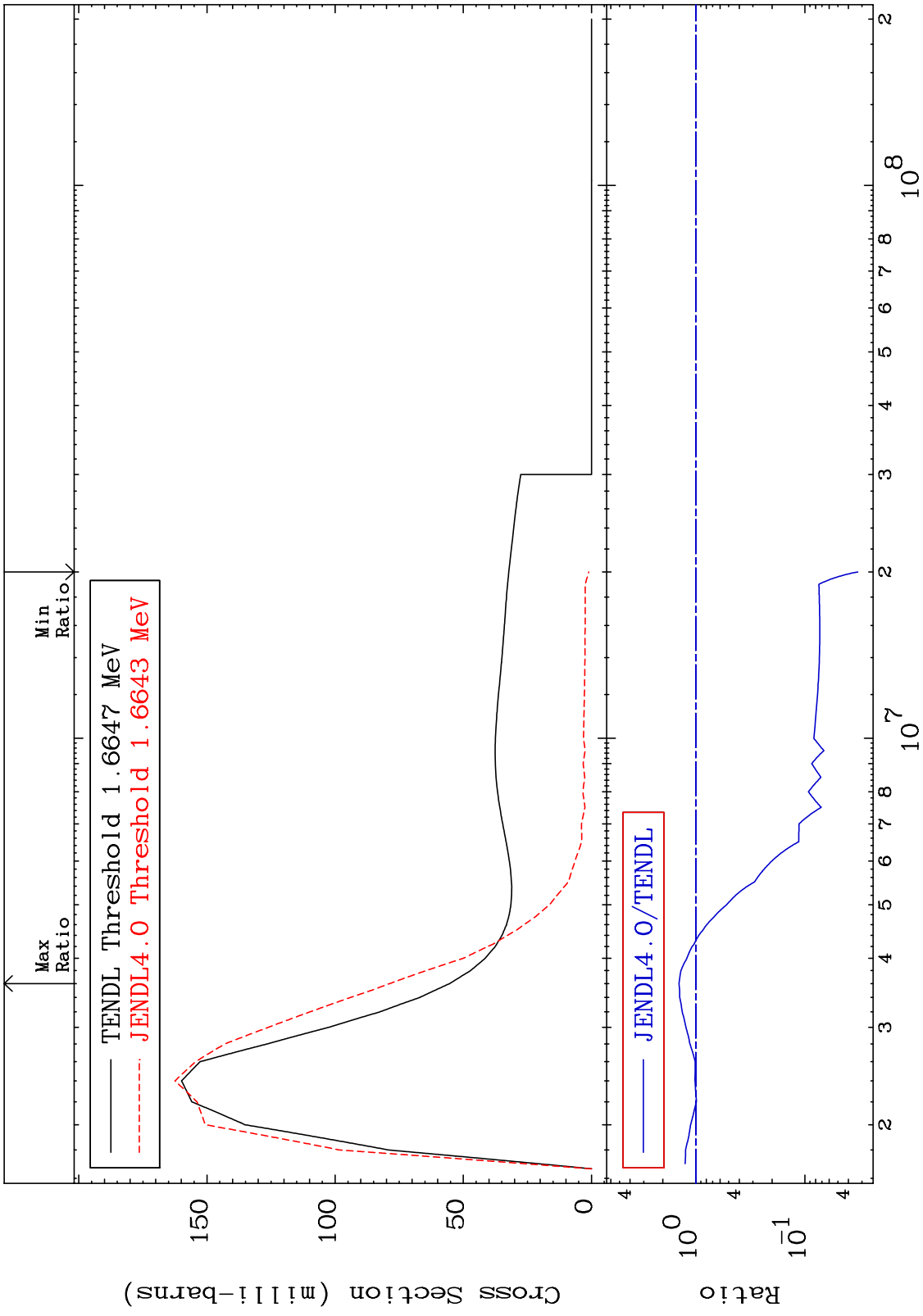


Incident Energy (eV) 58-Ce-142

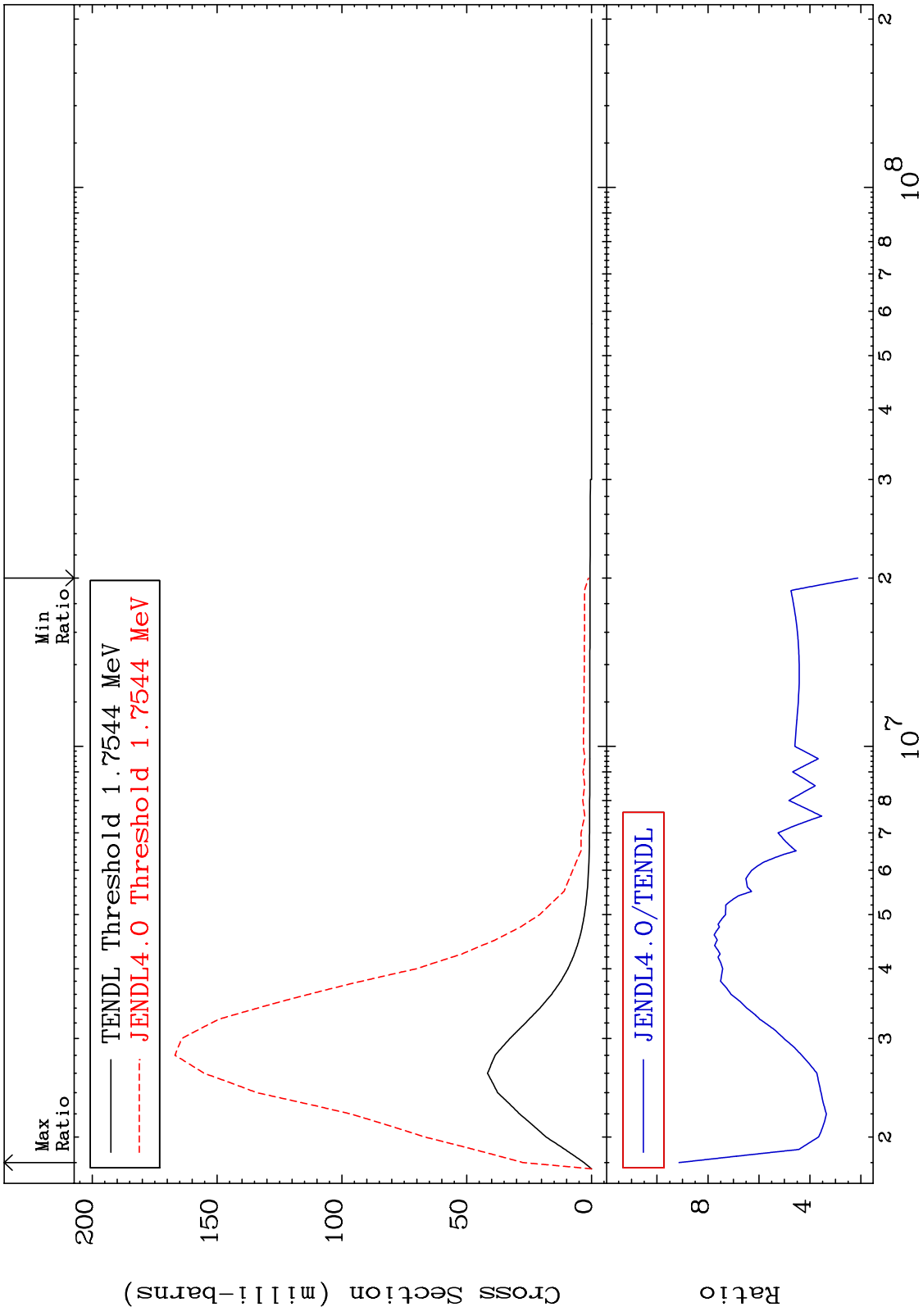
MAT 5843 MT= 53 (n,n') Level Cross Section 58-Ce-142  
 -18.36 To 191.3 %



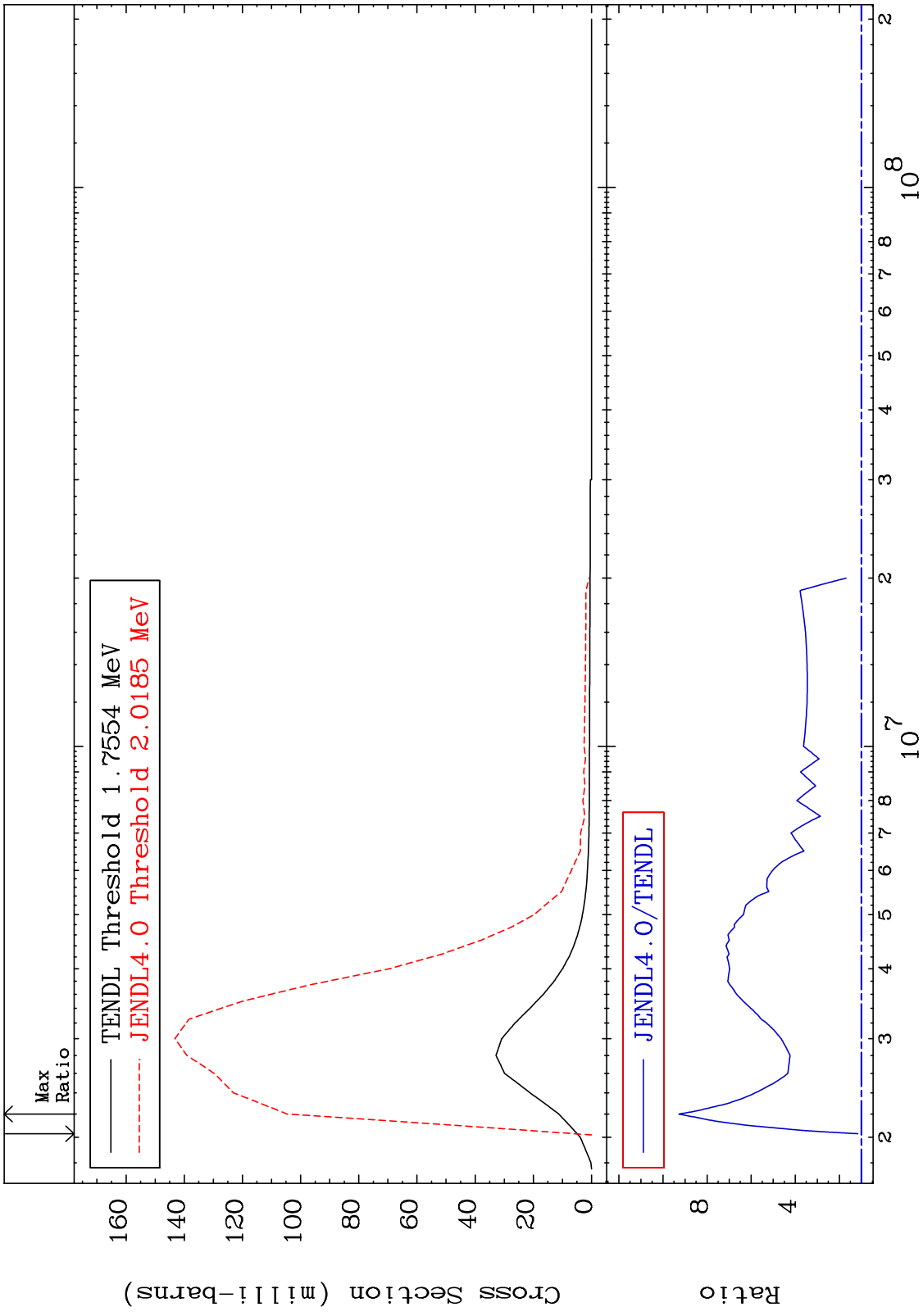
MAT 5843 MT= 54 (n,n') Level Cross Section 58-Ce-142  
 -96.72 To 42.28 %



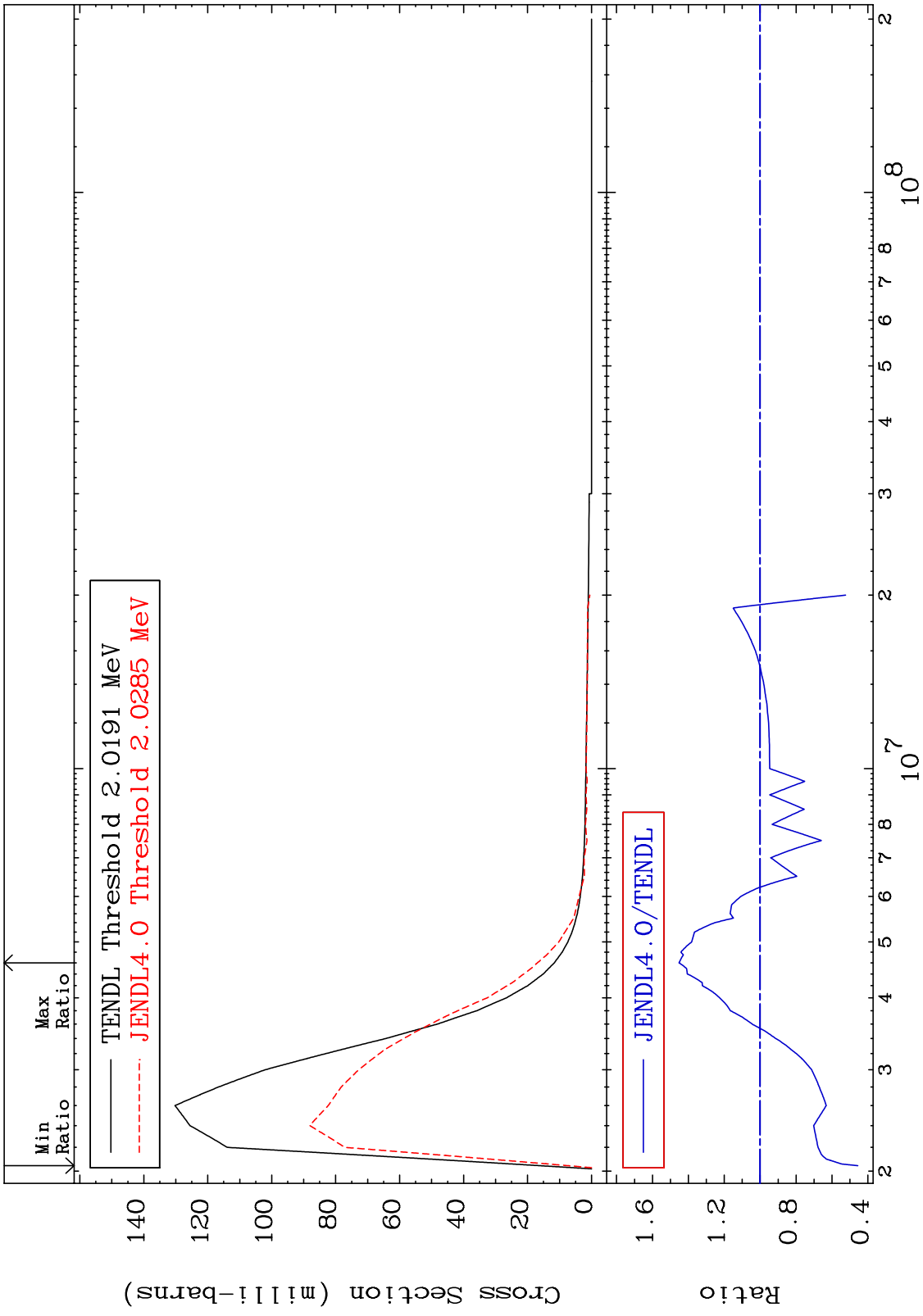
MAT 5843 MT= 55 (n,n') Level Cross Section 58-Ce-142 To 813.4 %  
 112.0



MAT 5843 MT= 56 (n,n') Level Cross Section 58-Ce-142 To 827.4 %  
 16.13

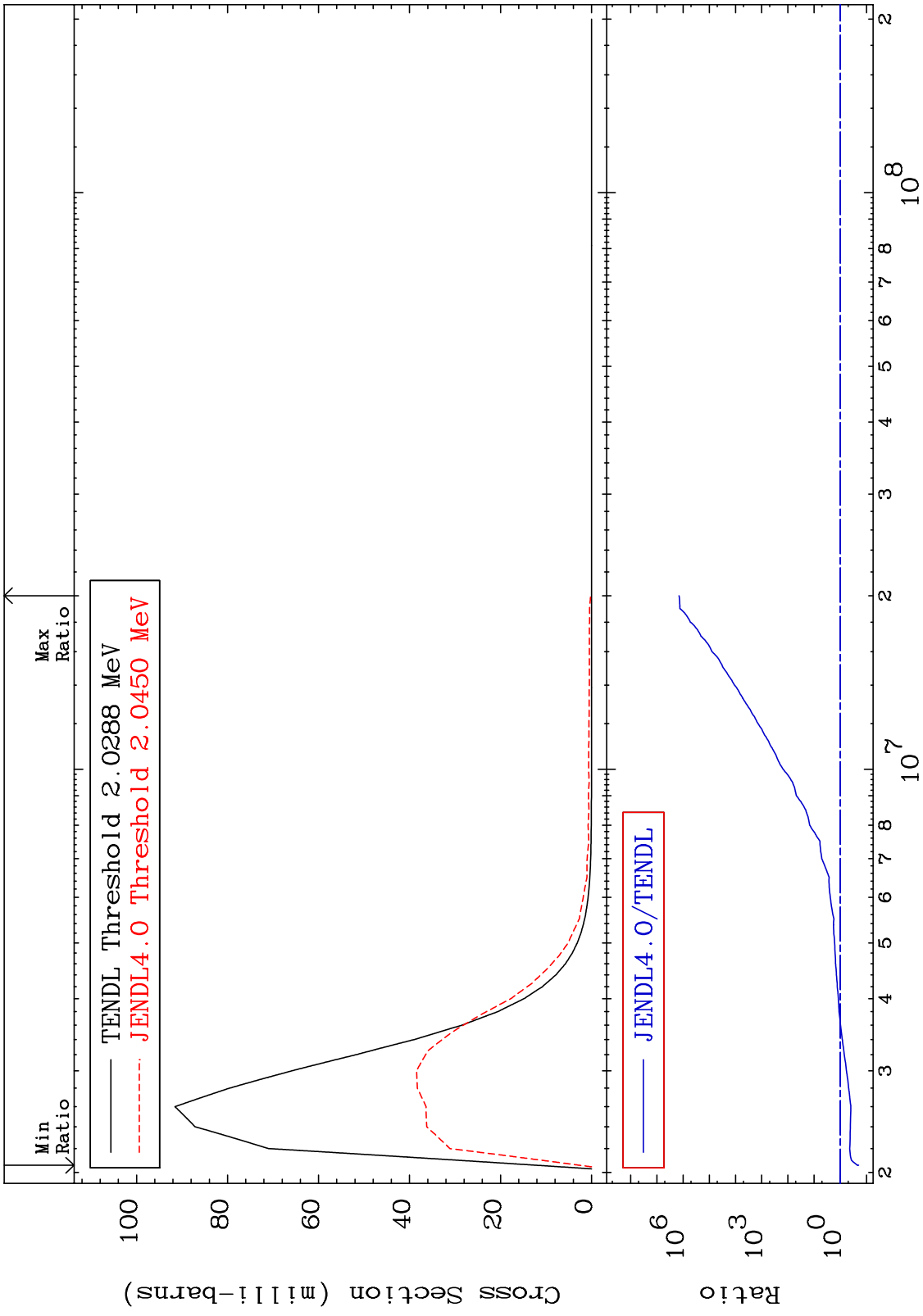


MAT 5843 MT= 57 (n,n') Level Cross Section 58-Ce-142 -54.41 To 45.19 %

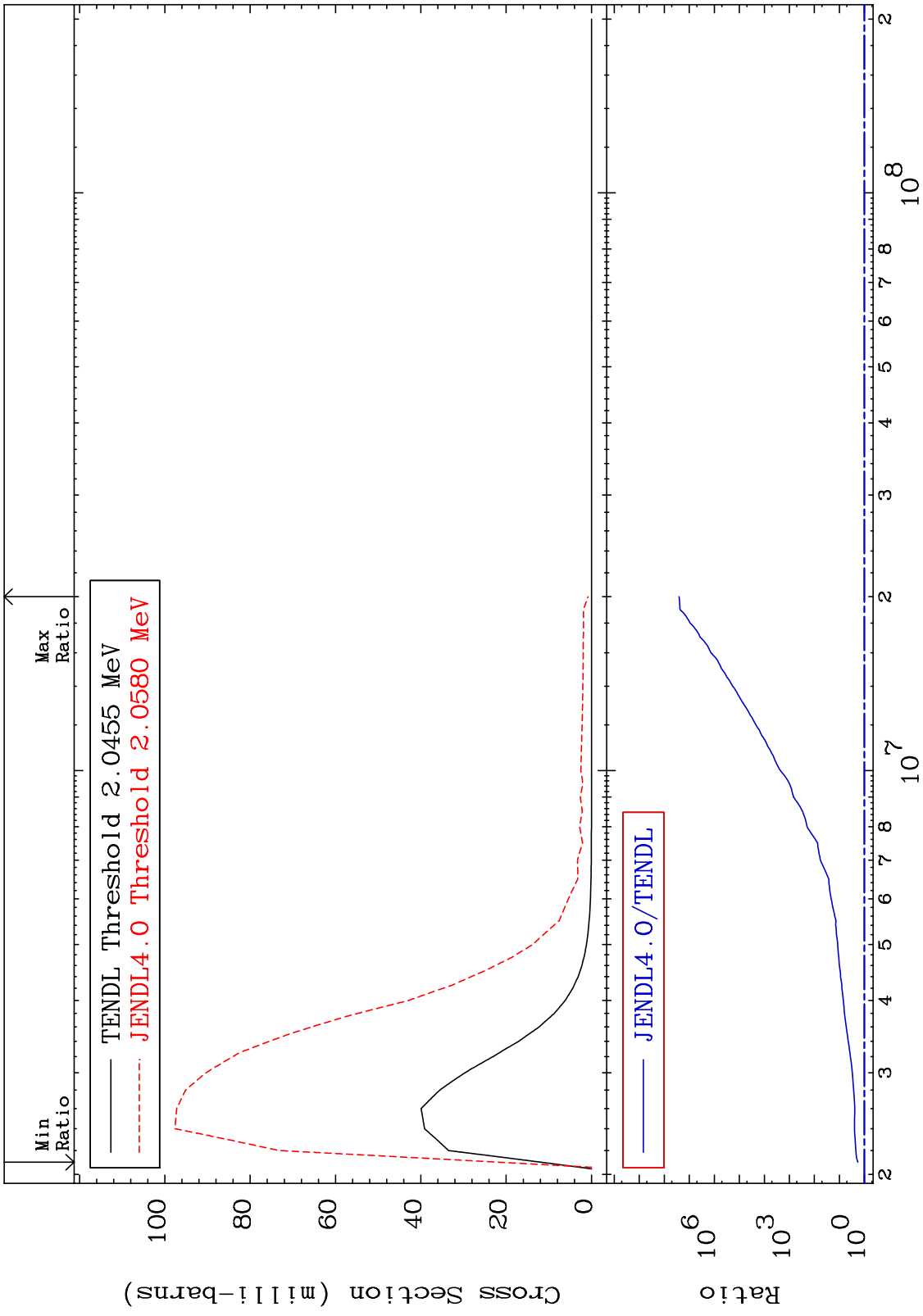




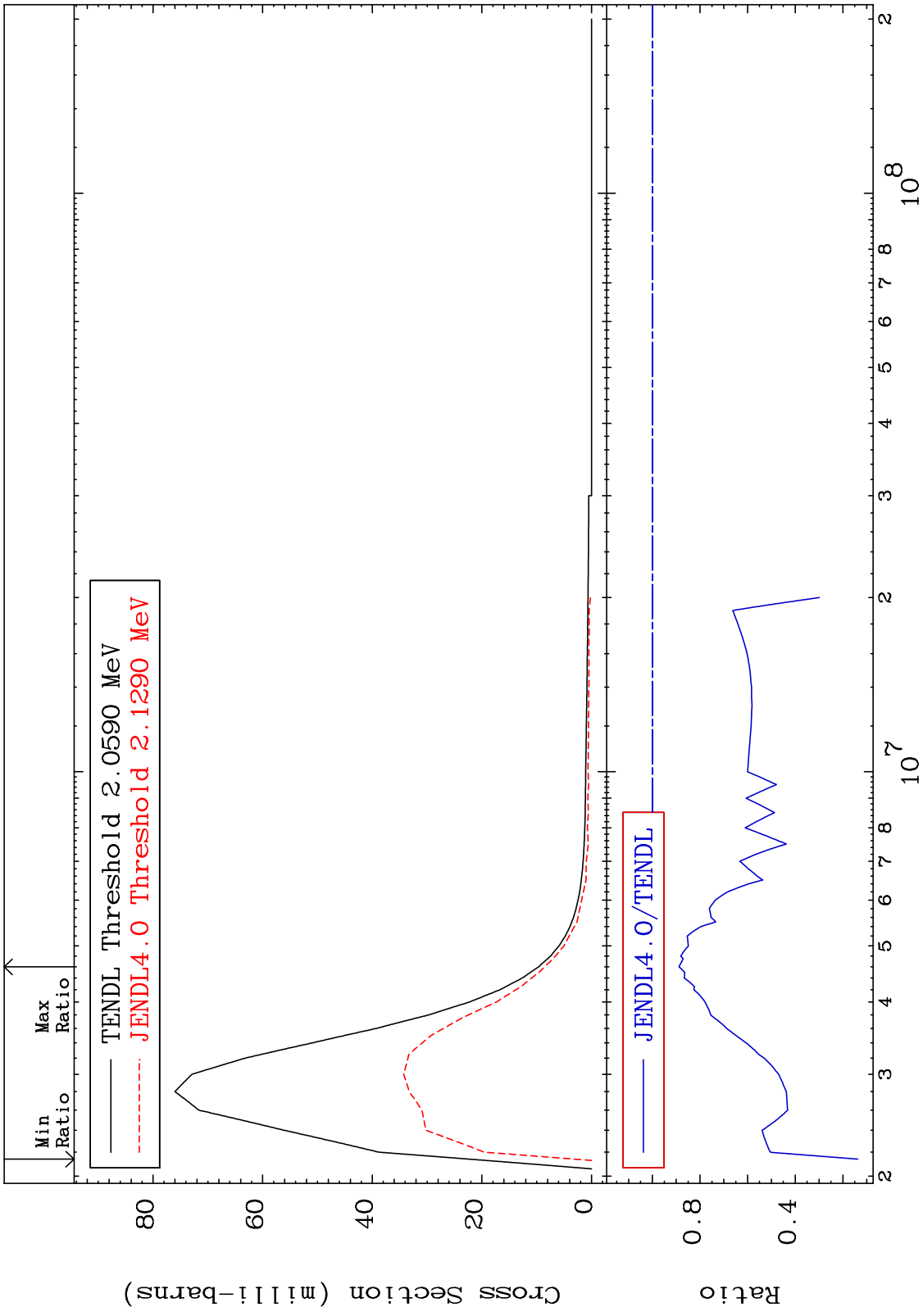
MAT 5843 MT= 58 (n,n') Level Cross Section 58-Ce-142  
 -78.46 To 9999. %



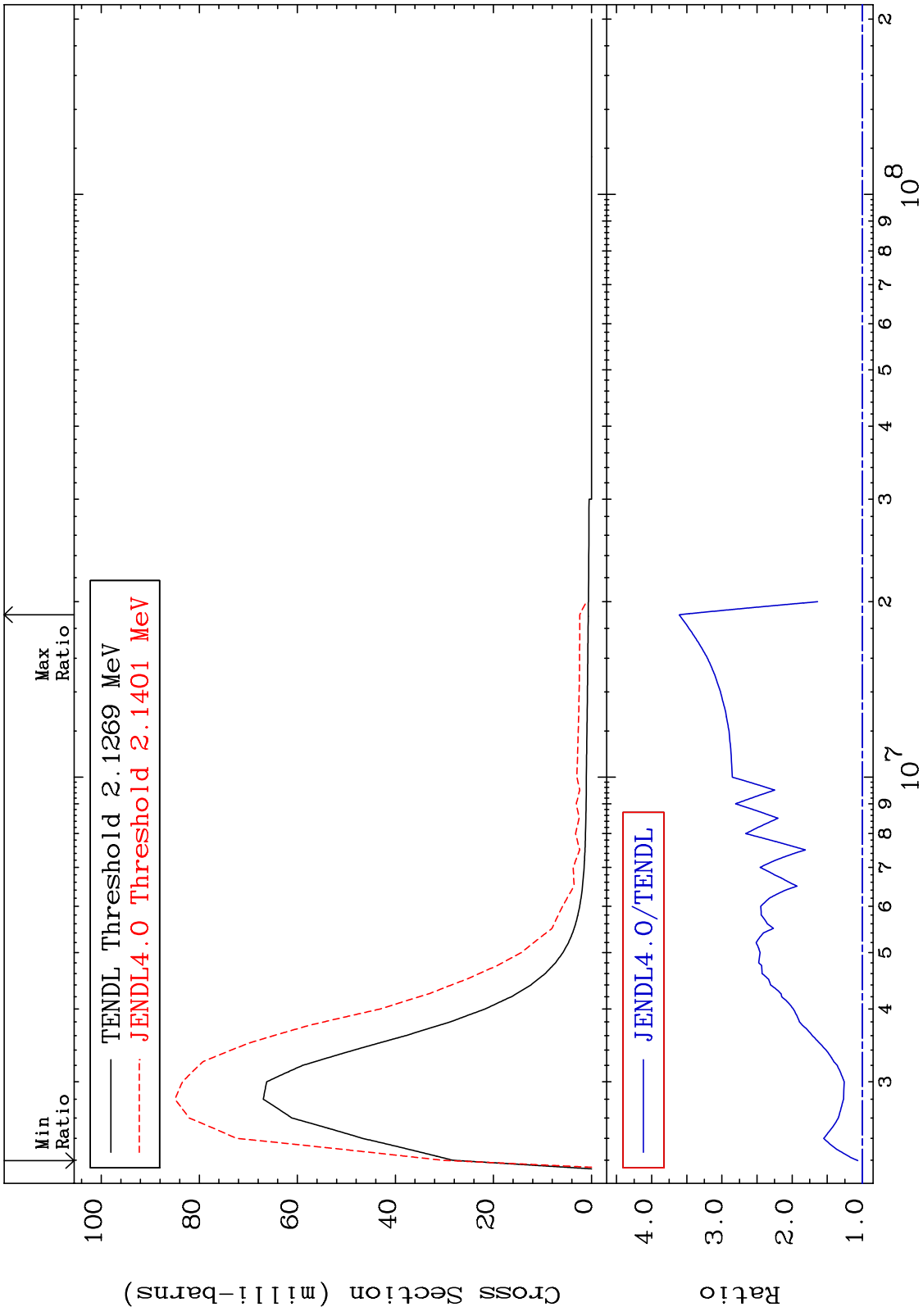
MAT 5843 MT= 59 (n,n') Level Cross Section 58-Ce-142 To 9999. %



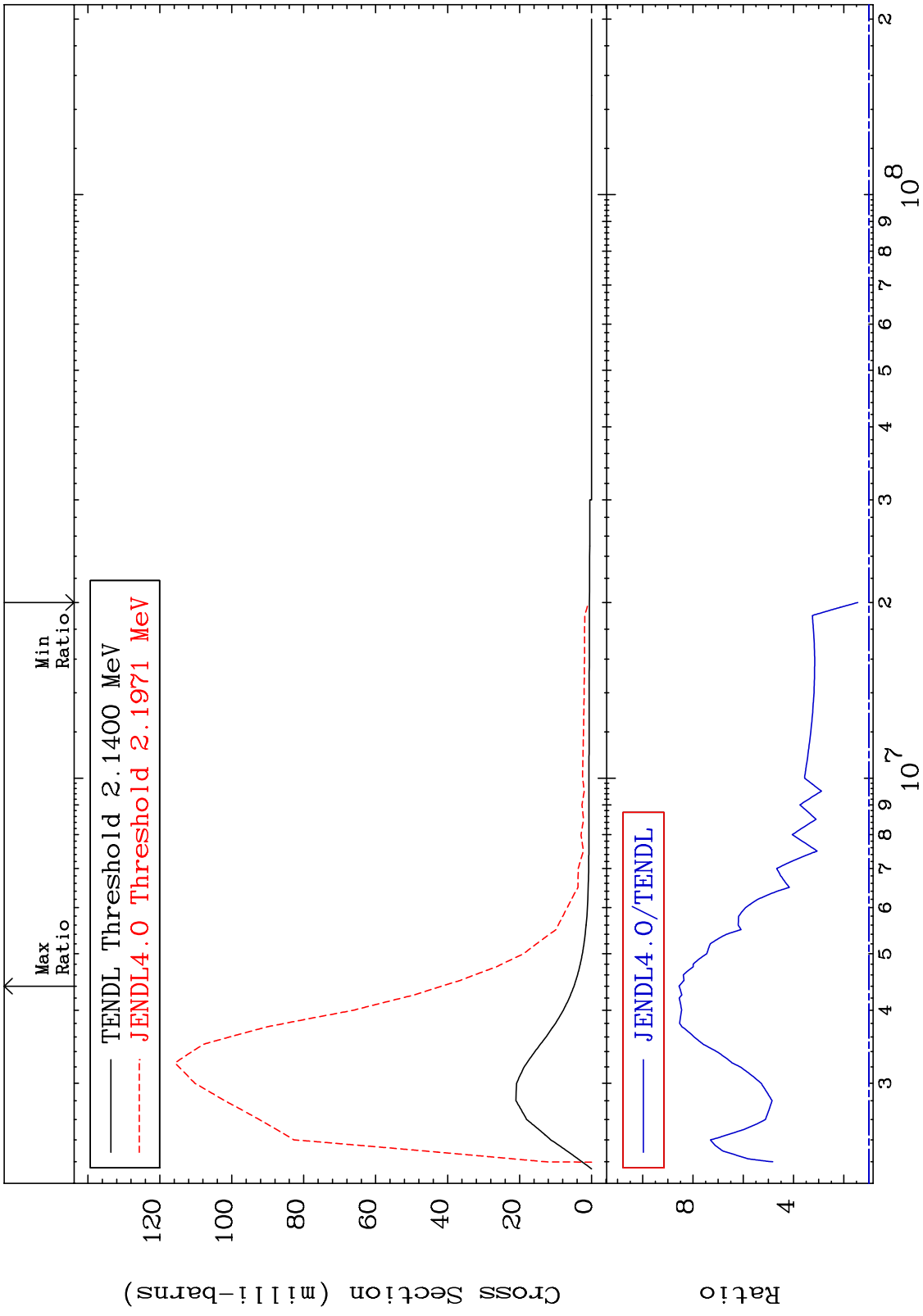
MAT 5843 MT= 60 (n,n') Level Cross Section 58-Ce-142 -86.30 To -11.19%



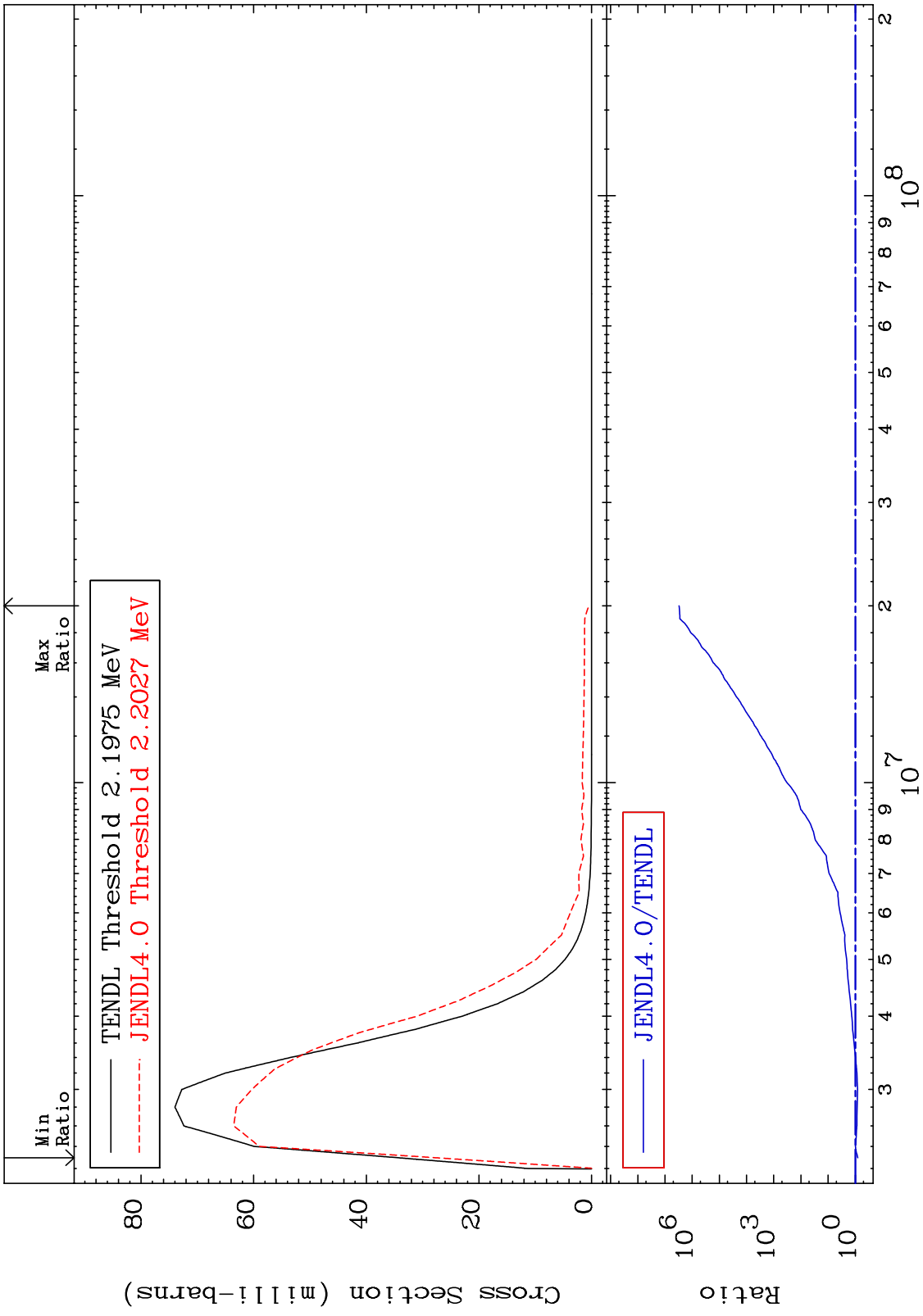
MAT 5843 MT= 61 (n,n') Level Cross Section 58-Ce-142 6.472 To 261.0 %



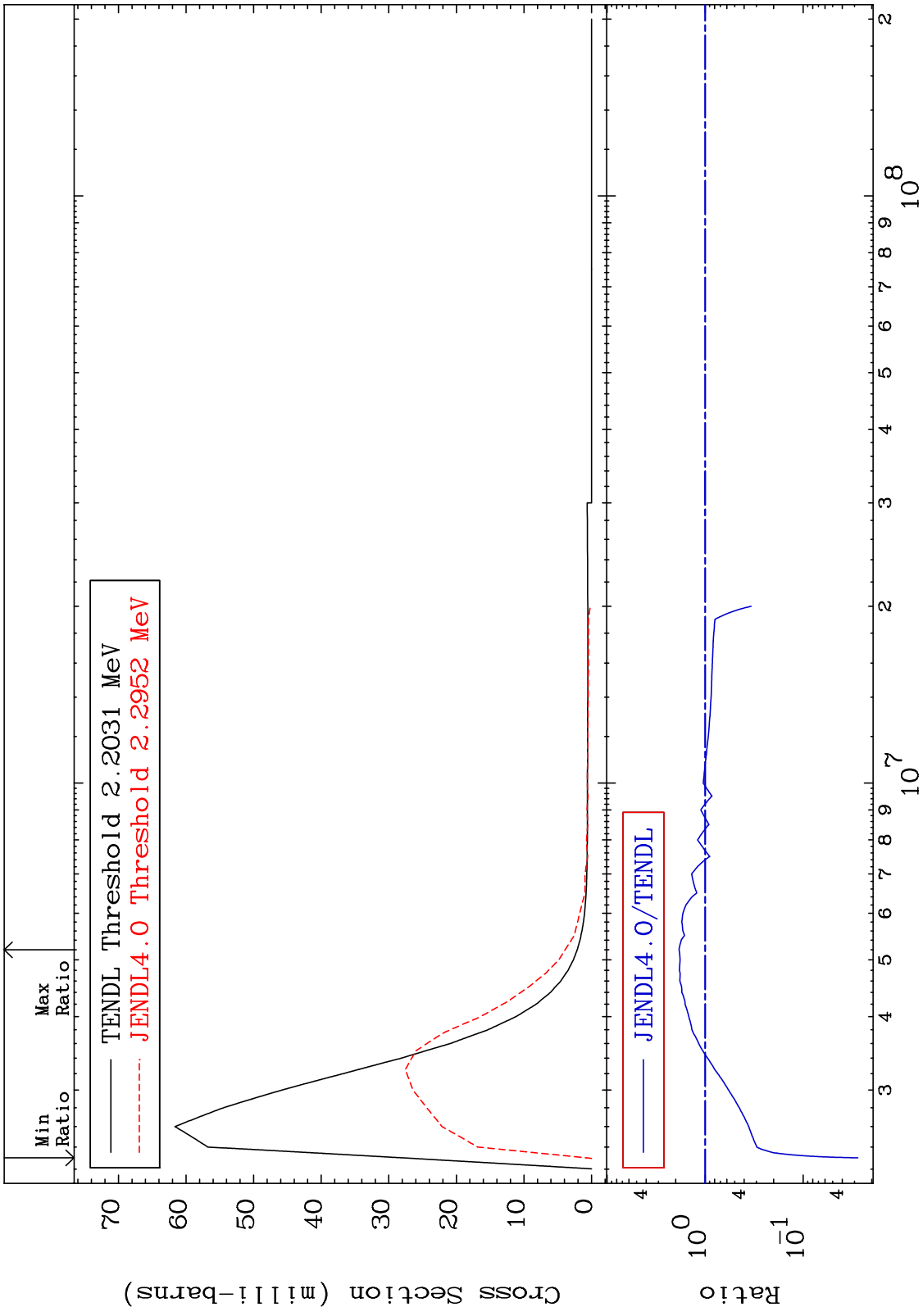
MAT 5843 MT= 62 (n,n') Level Cross Section 58-Ce-142 44.34 To 755.6 %



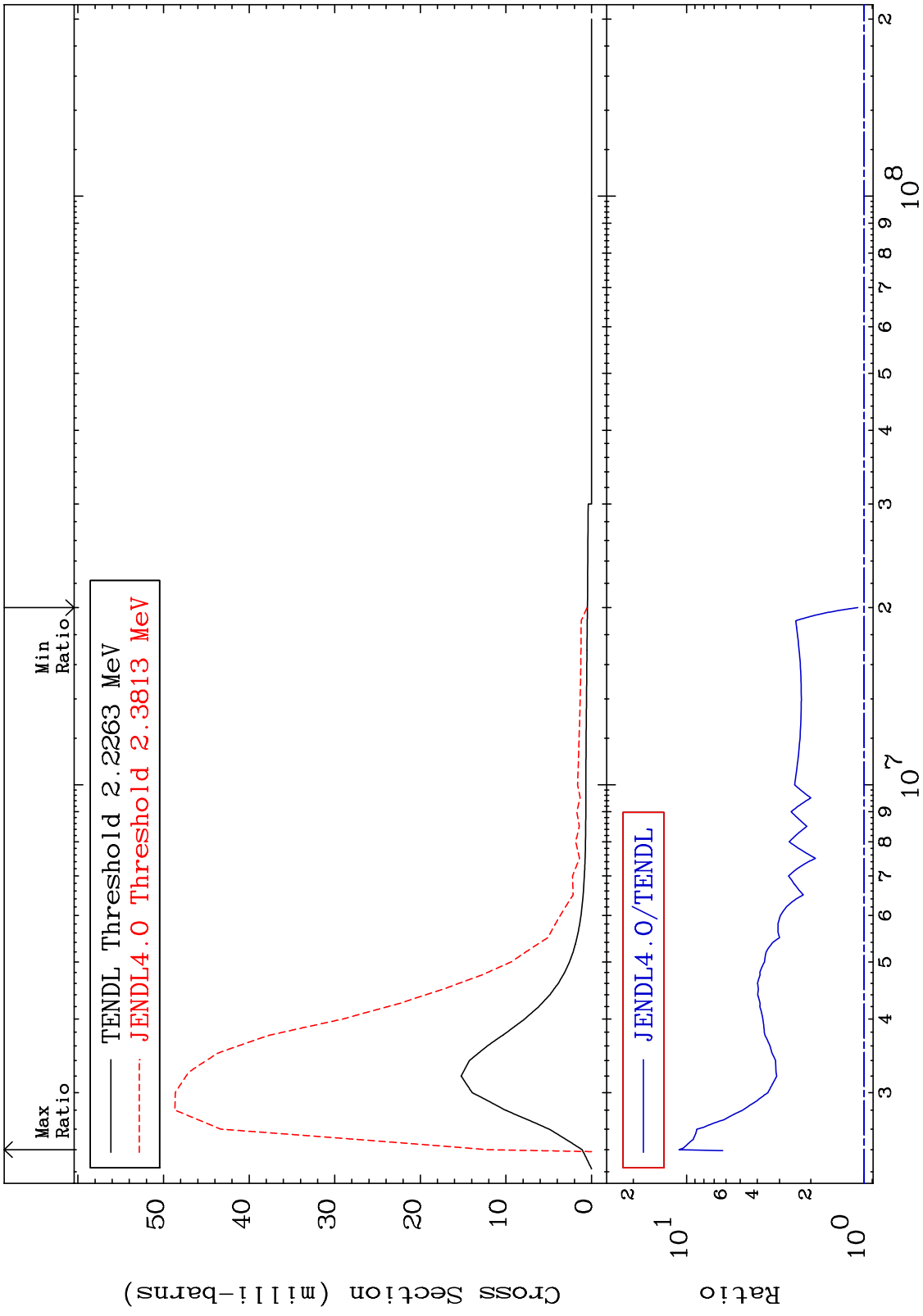
MAT 5843 MT= 63 (n,n') Level Cross Section 58-Ce-142  
 -19.49 To 9999. %



MAT 5843 MT= 64 (n,n') Level Cross Section 58-Ce-142  
 -97.23 To 84.65 %

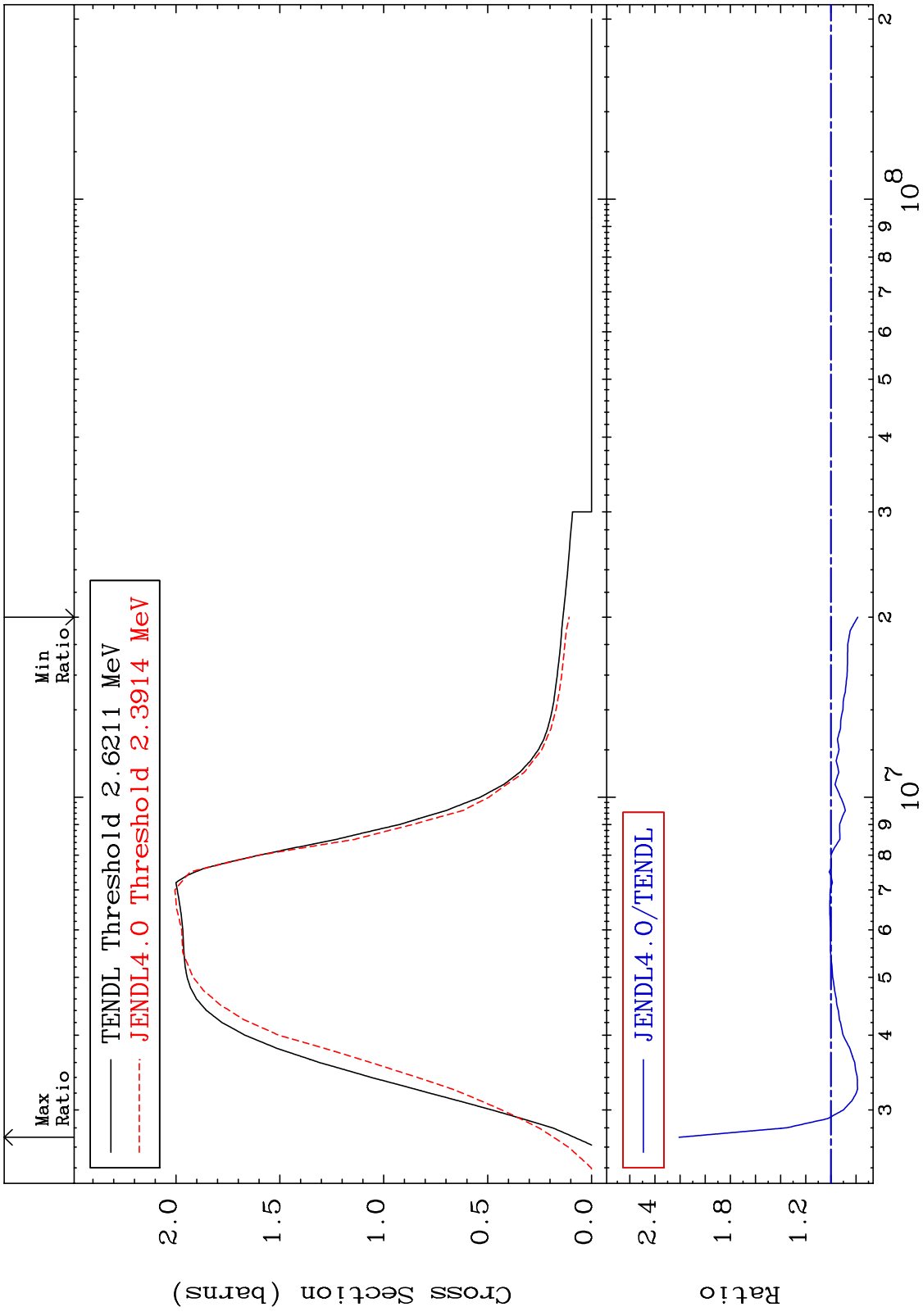


MAT 5843 MT= 65 (n,n') Level Cross Section 58-Ce-142 To 1005. %  
 8.561





MAT 5843 (n, n') Continuum Cross Section 58-Ce-142 -21.47 To 120.9 %



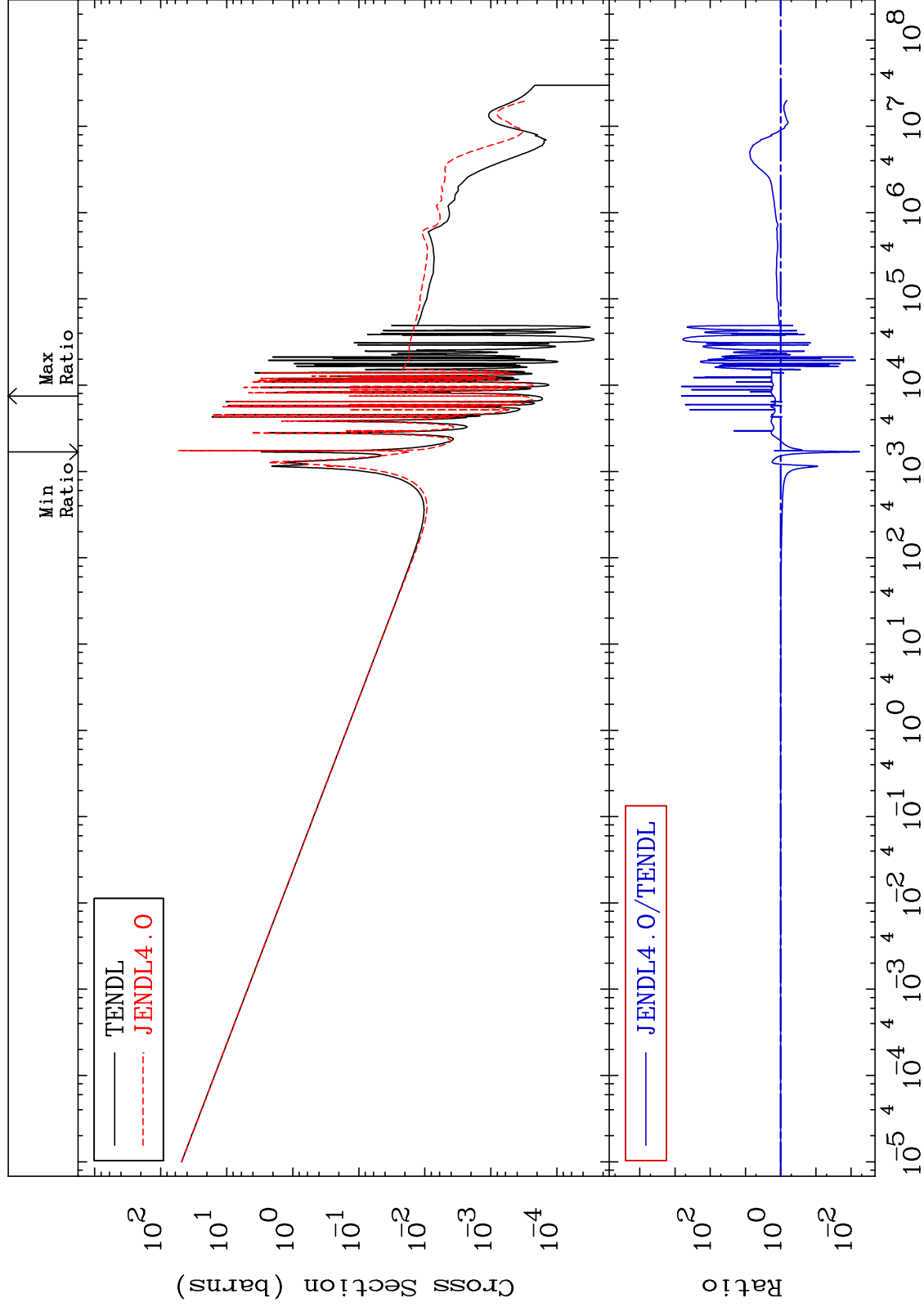
MAT 5843

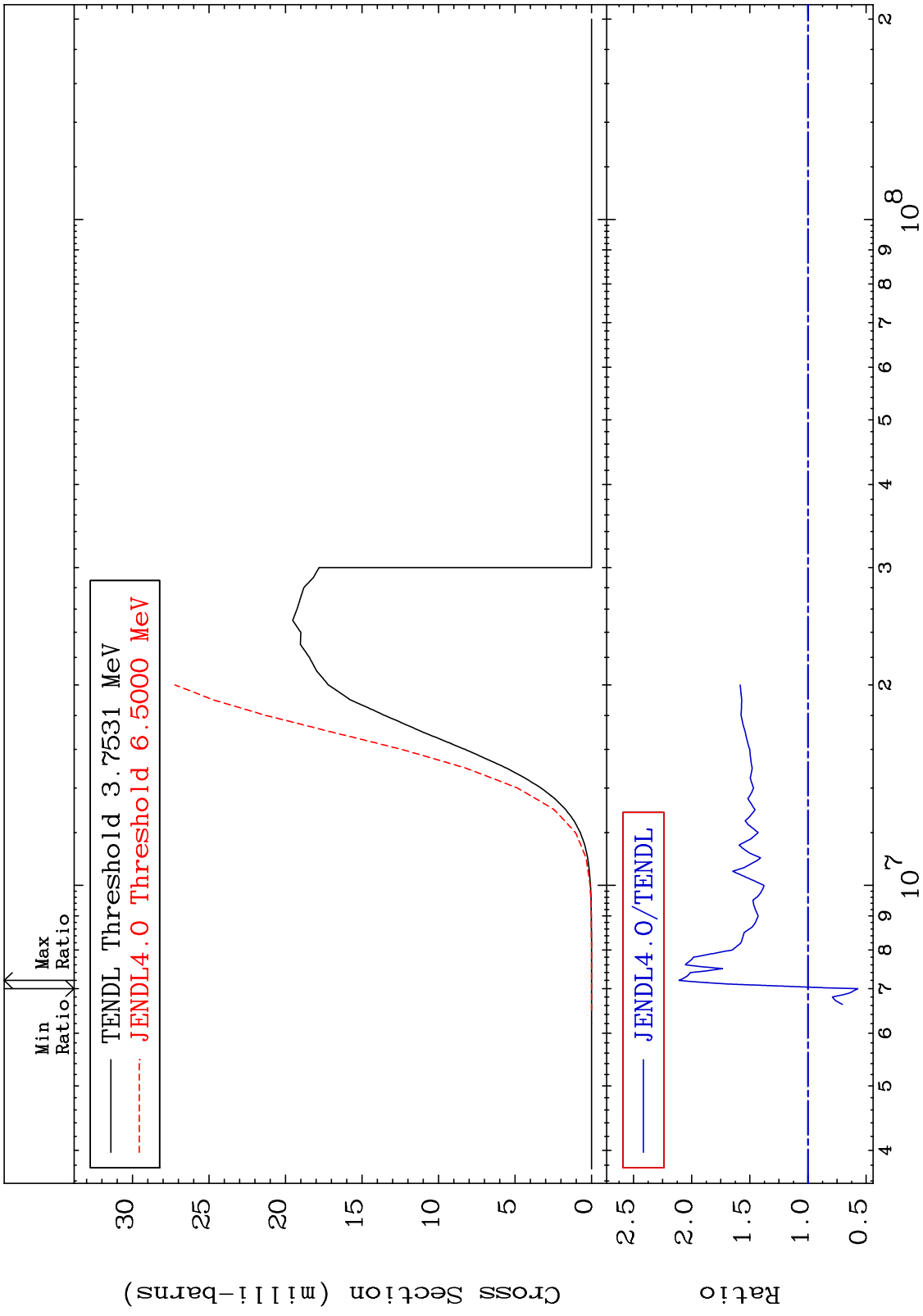
(n,  $\gamma$ )

58-Ce-142

Cross Section

-99.43 To 9999. %





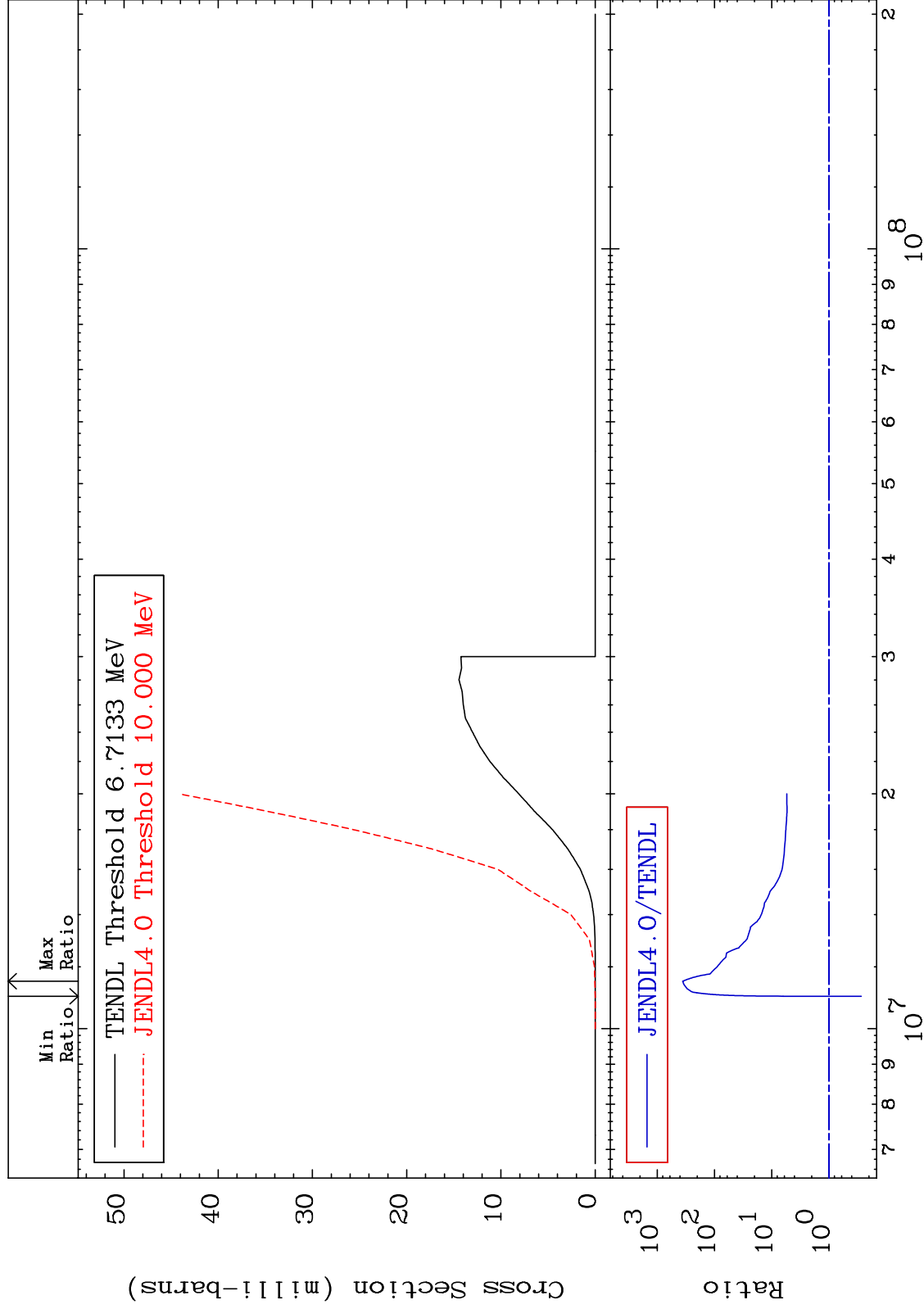
MAT 5843

(n,d)

58-Ce-142

Cross Section

-72.94 To 9999. %

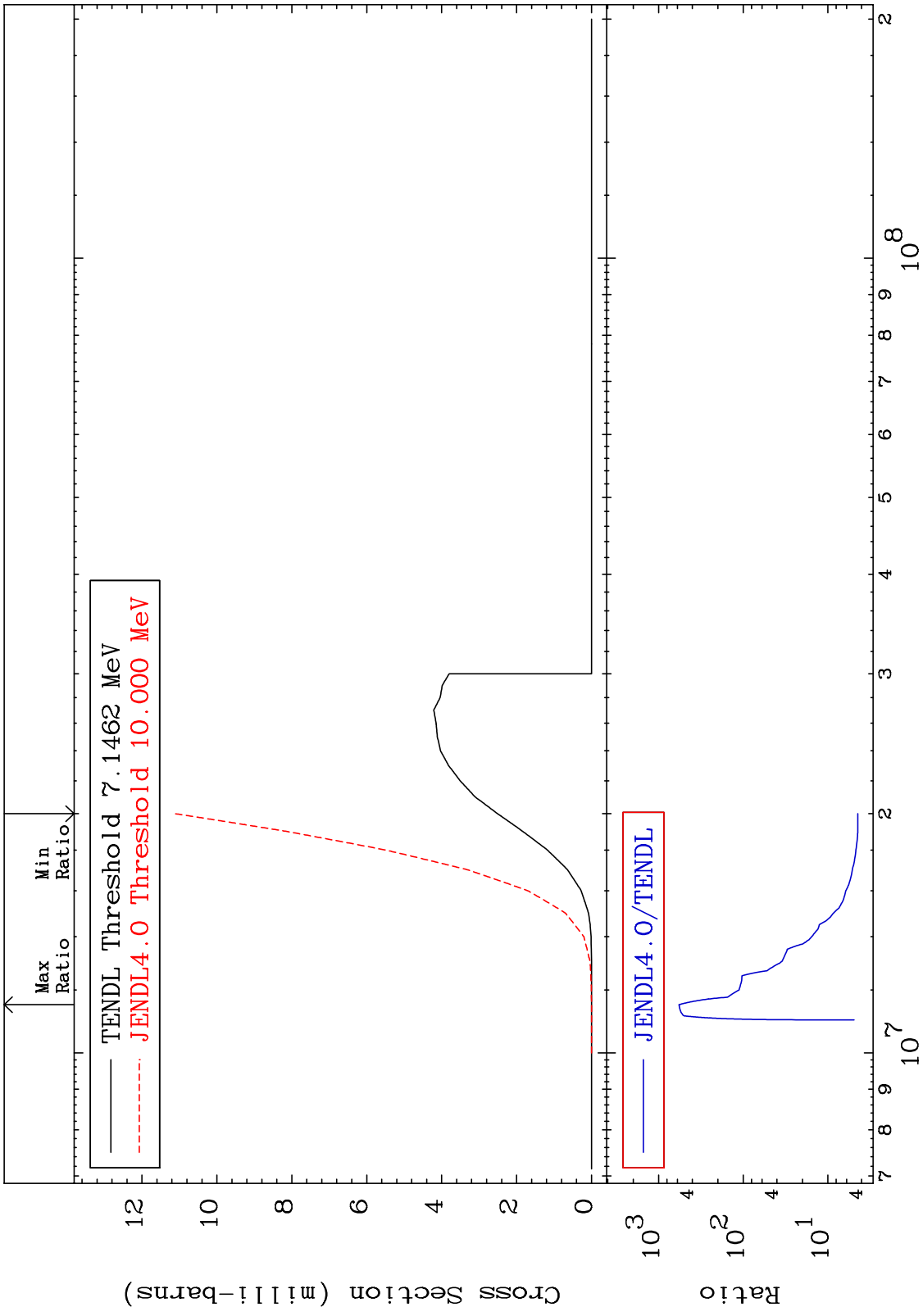


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Incident Energy (eV)

58-Ce-142

MAT 5843 (n,t) Cross Section 58-Ce-142 To 9999. %  
 342.9



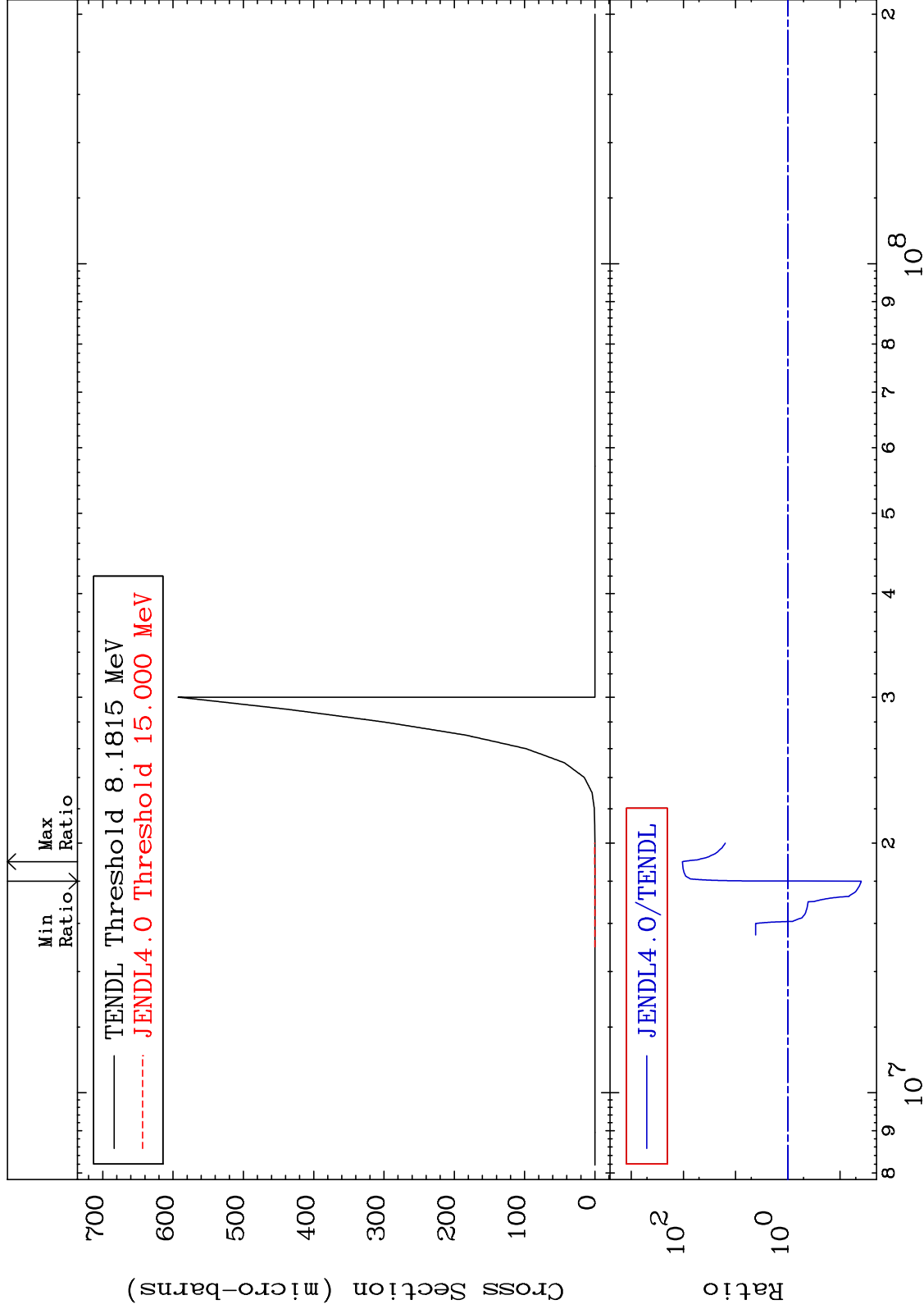
MAT 5843

(n, He-3)

58-Ce-142

Cross Section

-96.08 To 9999. %



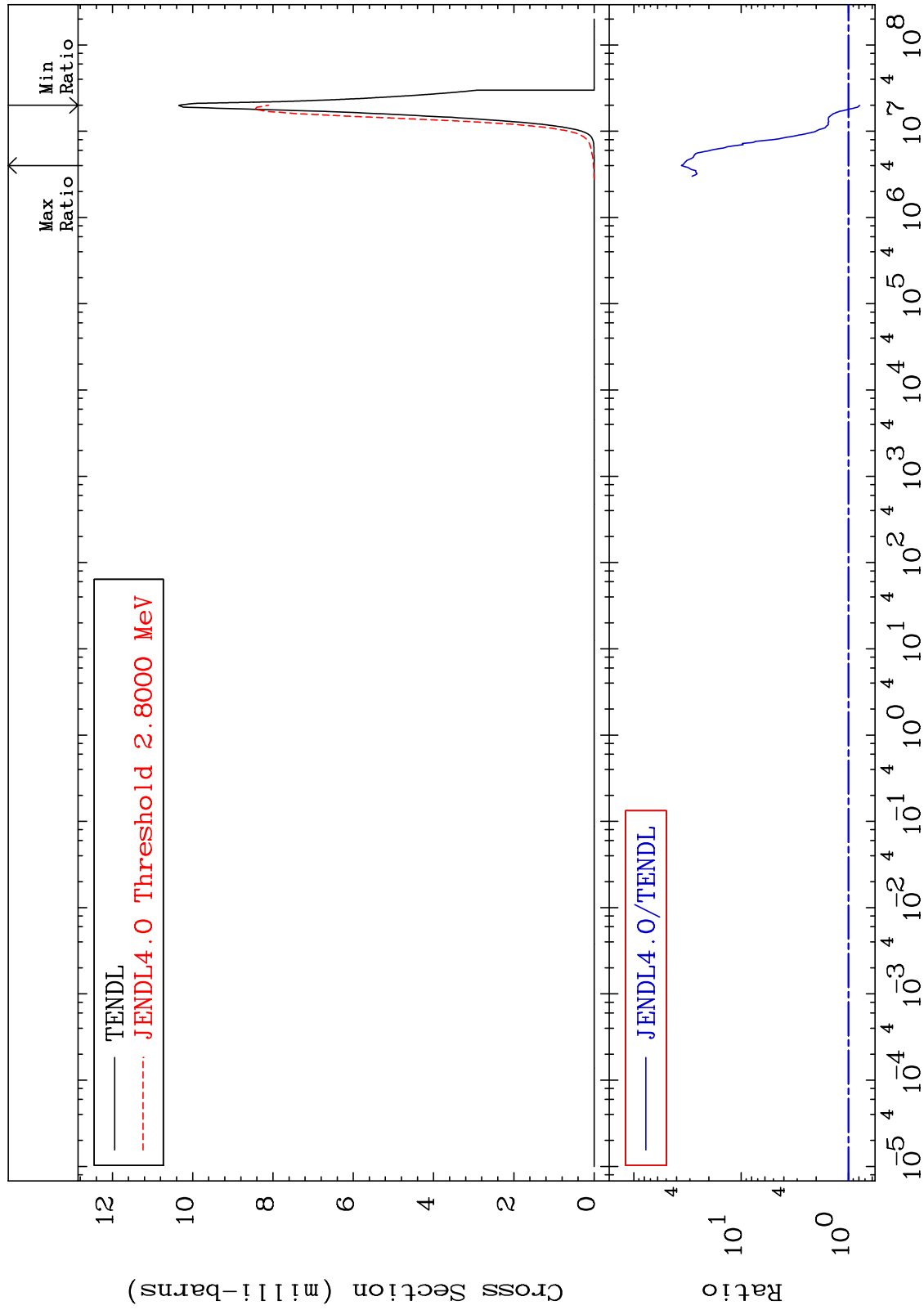
MAT 5843

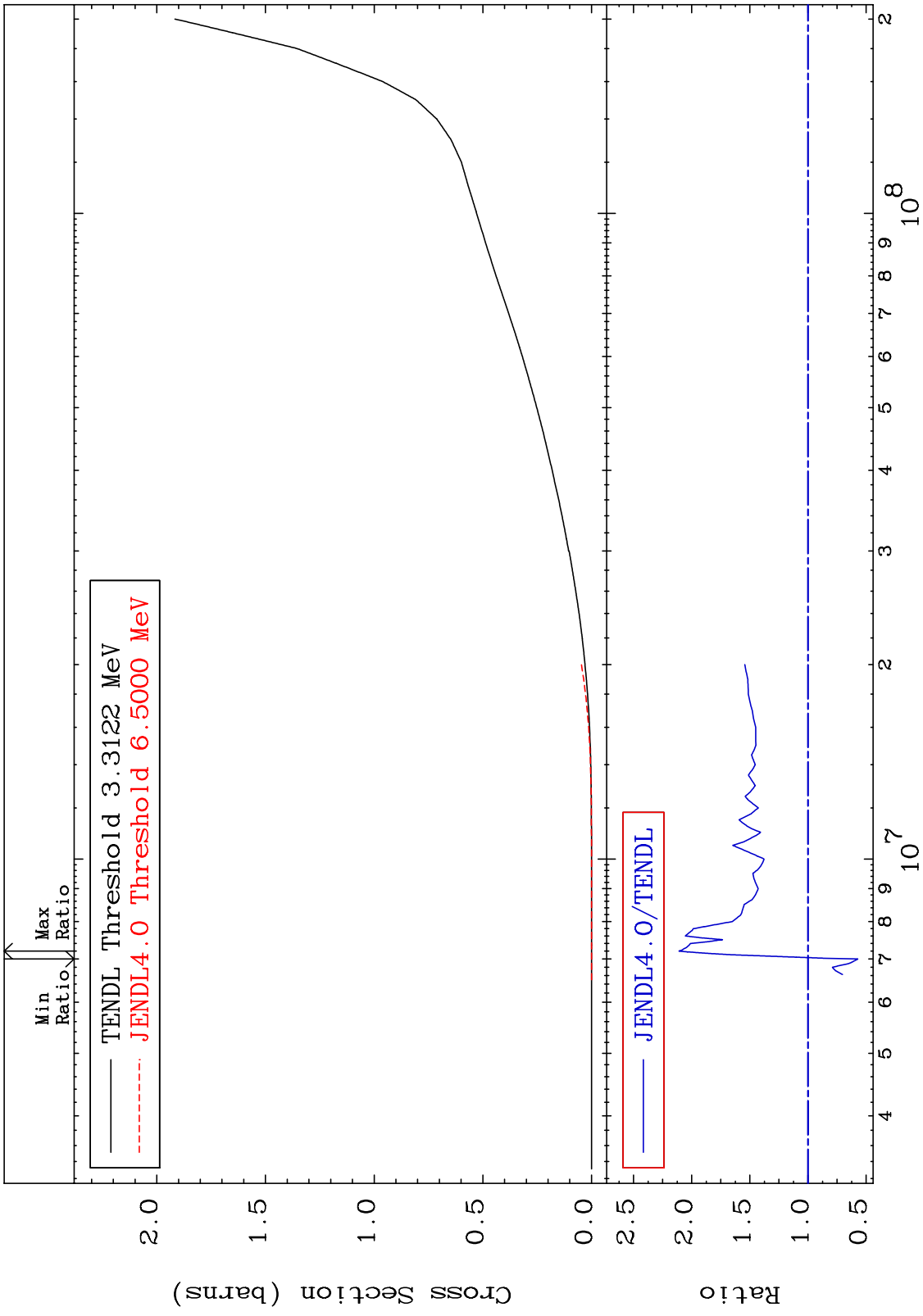
(n,  $\alpha$ )

58-Ce-142

Cross Section

-21.69 To 3503. %



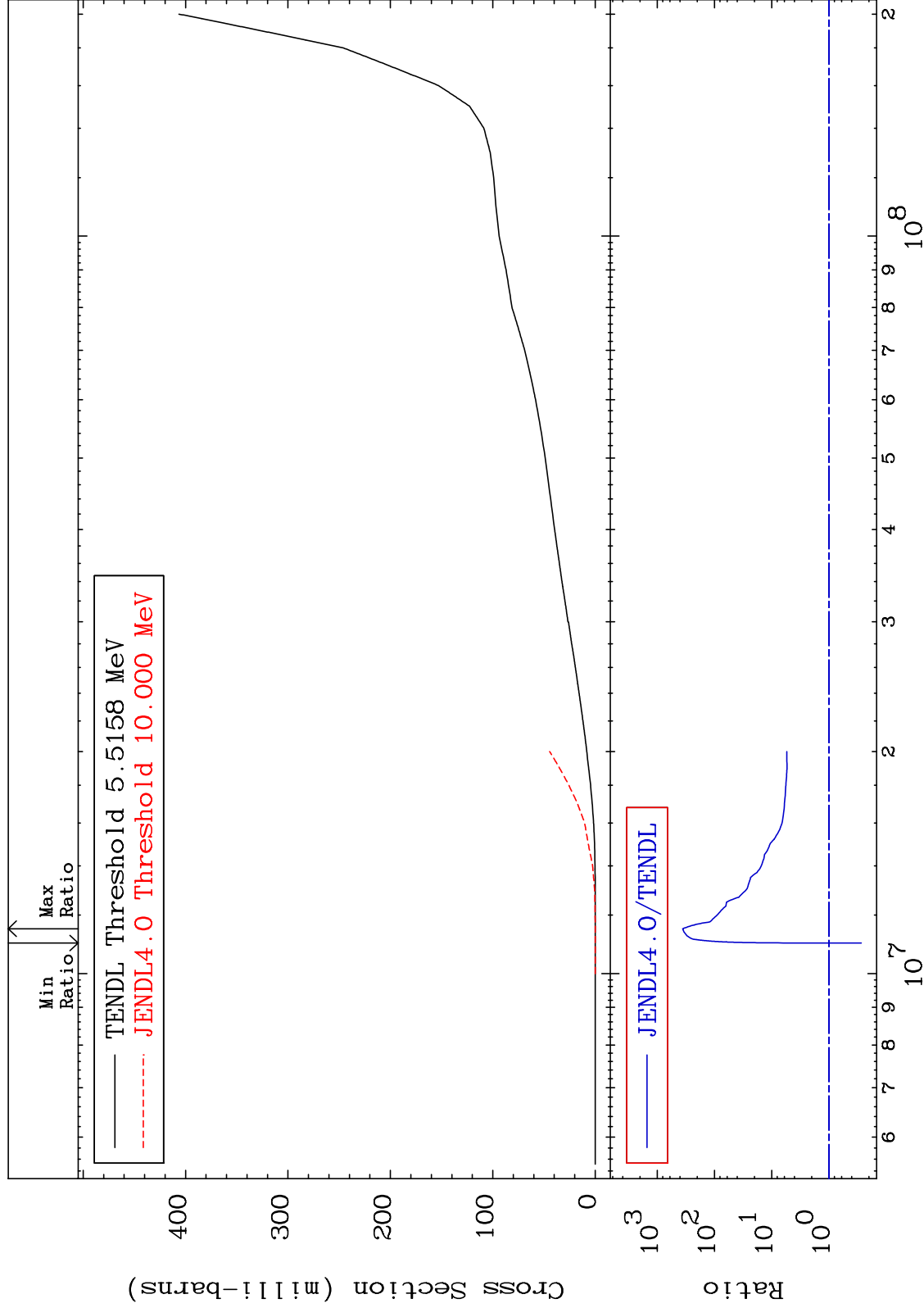




MAT 5843

### Deuterium Production Cross Section

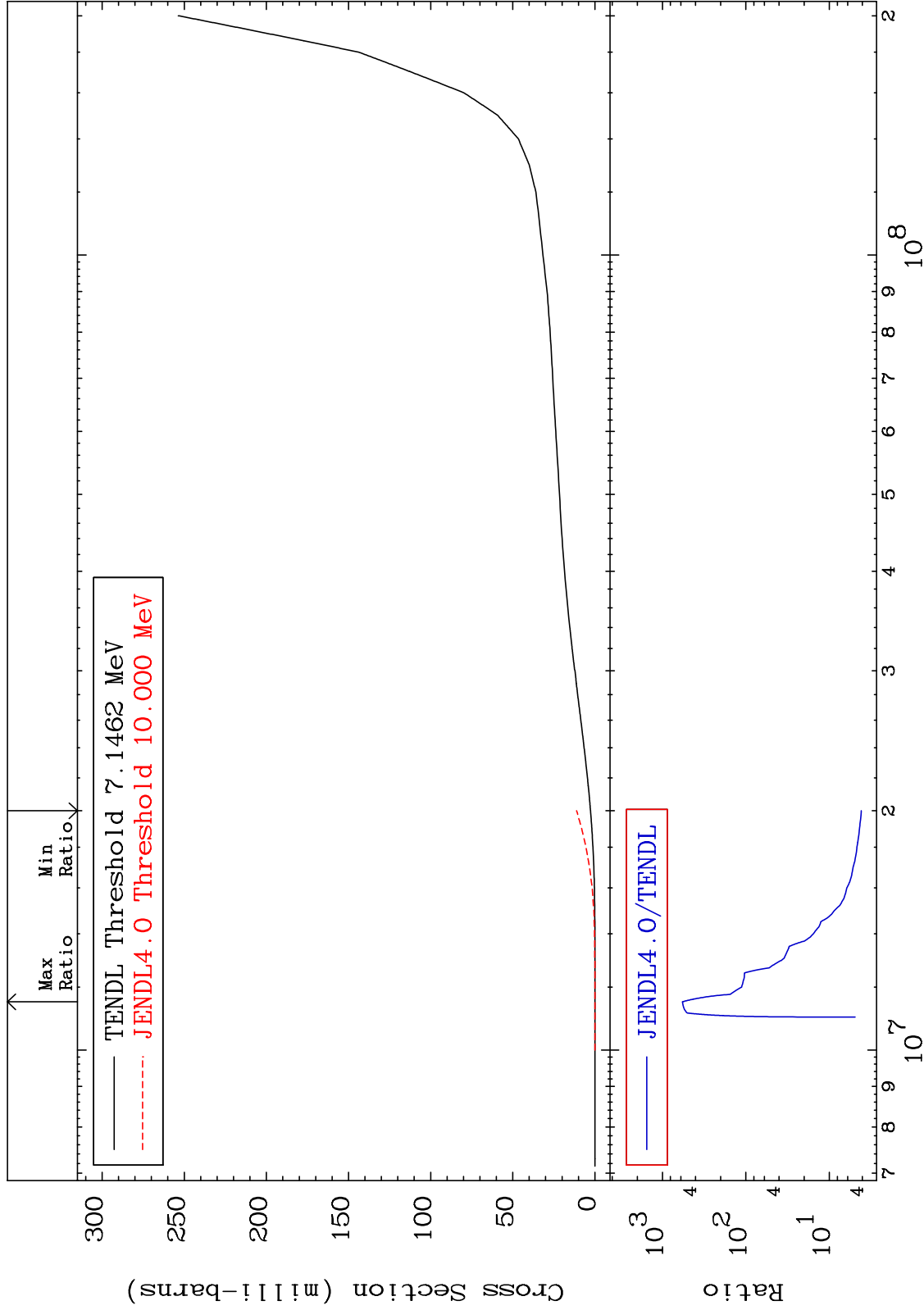
58-Ce-142  
-72.94 To 9999. %



MAT 5843

Tritium Production  
Cross Section

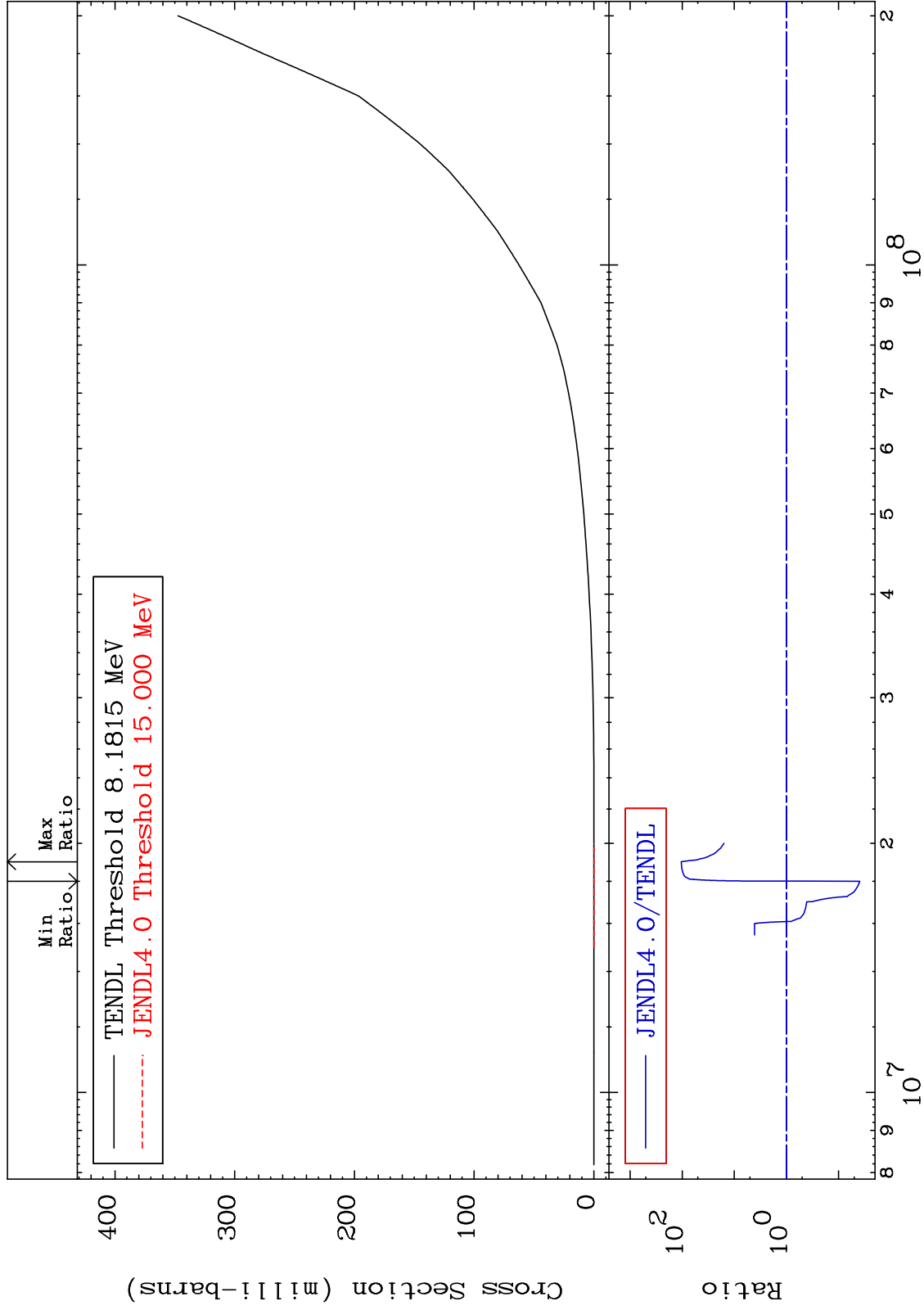
58-Ce-142  
312.7 To 9999. %



MAT 5843

He-3 Production  
Cross Section

58-Ce-142  
-96.08 To 9999. %



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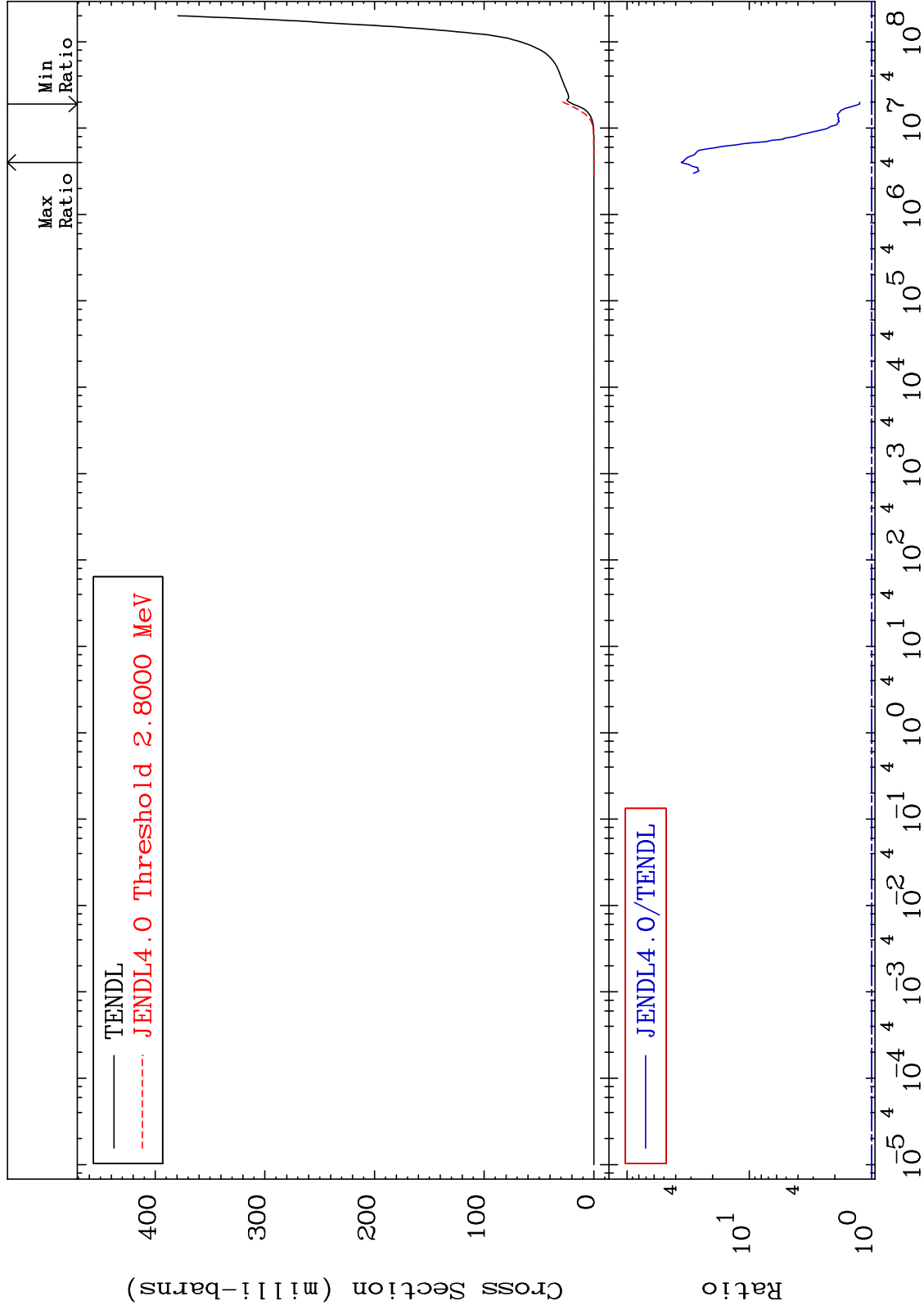
Incident Energy (eV)

58-Ce-142

MAT 5843

He-4 Production  
Cross Section

58-Ce-142  
25.09 To 3502. %

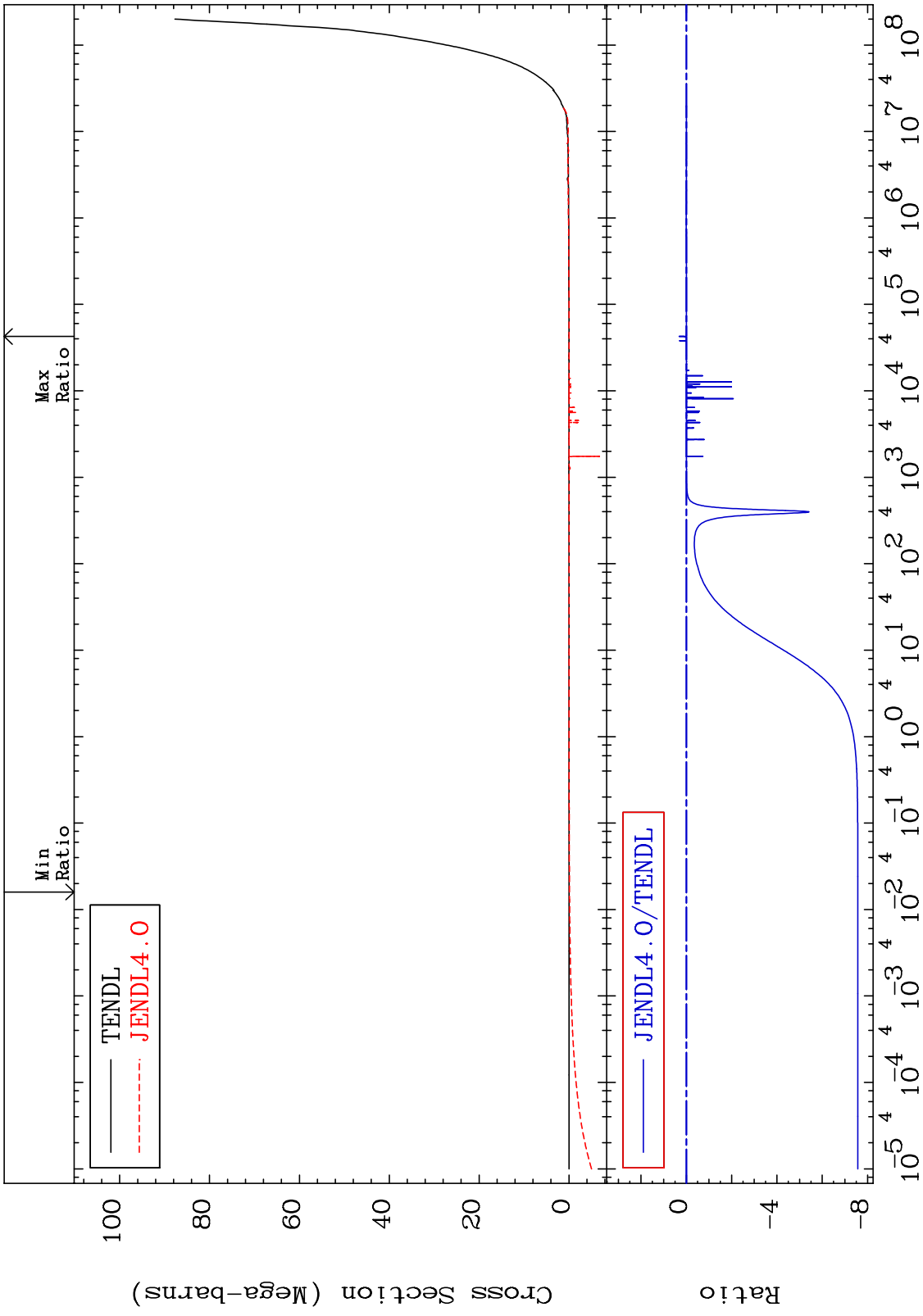


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Incident Energy (eV)

58-Ce-142

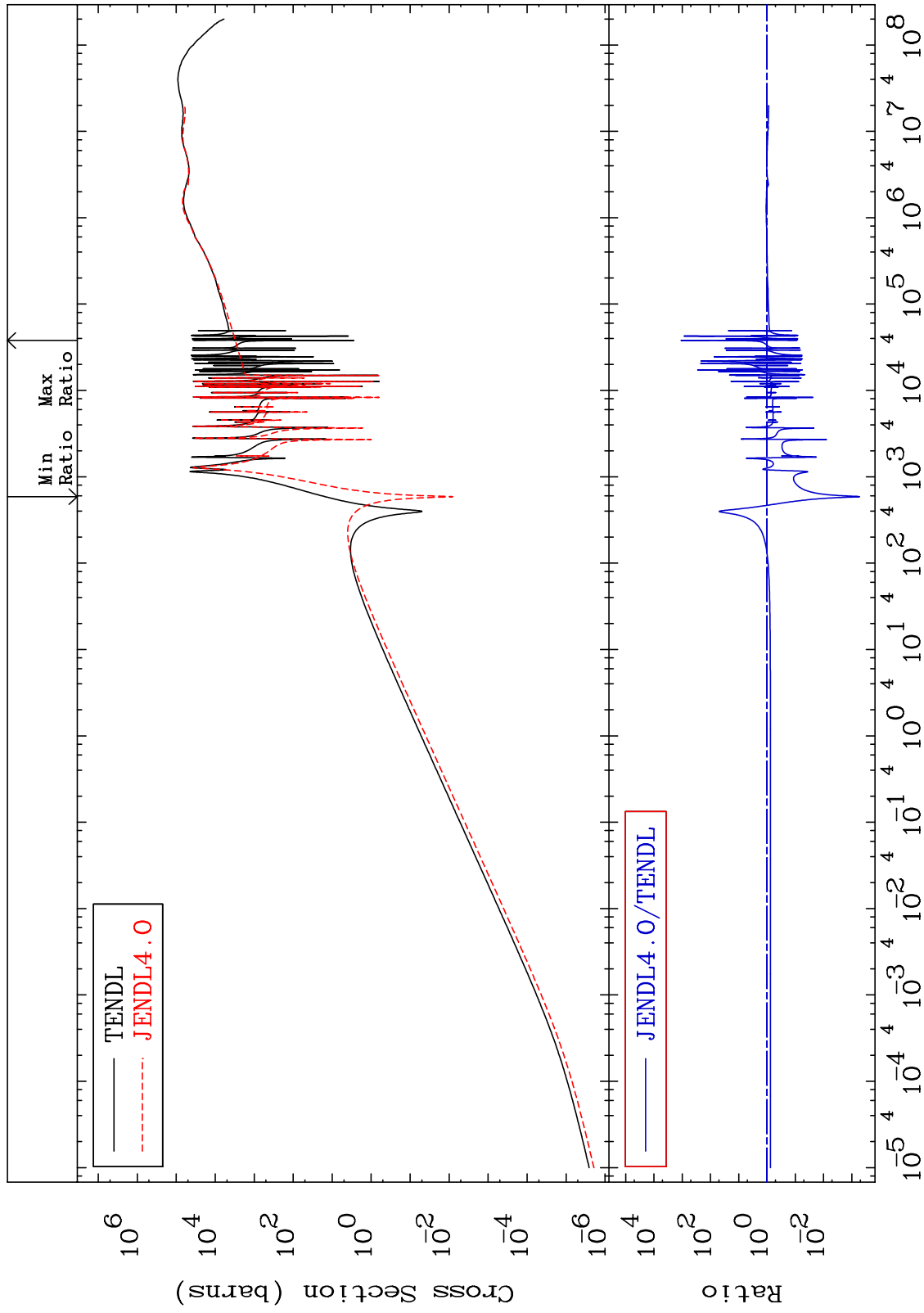
MAT 5843      Kerma total (eV-barns)      58-Ce-142  
 Cross Section      -9999. To 9999. %



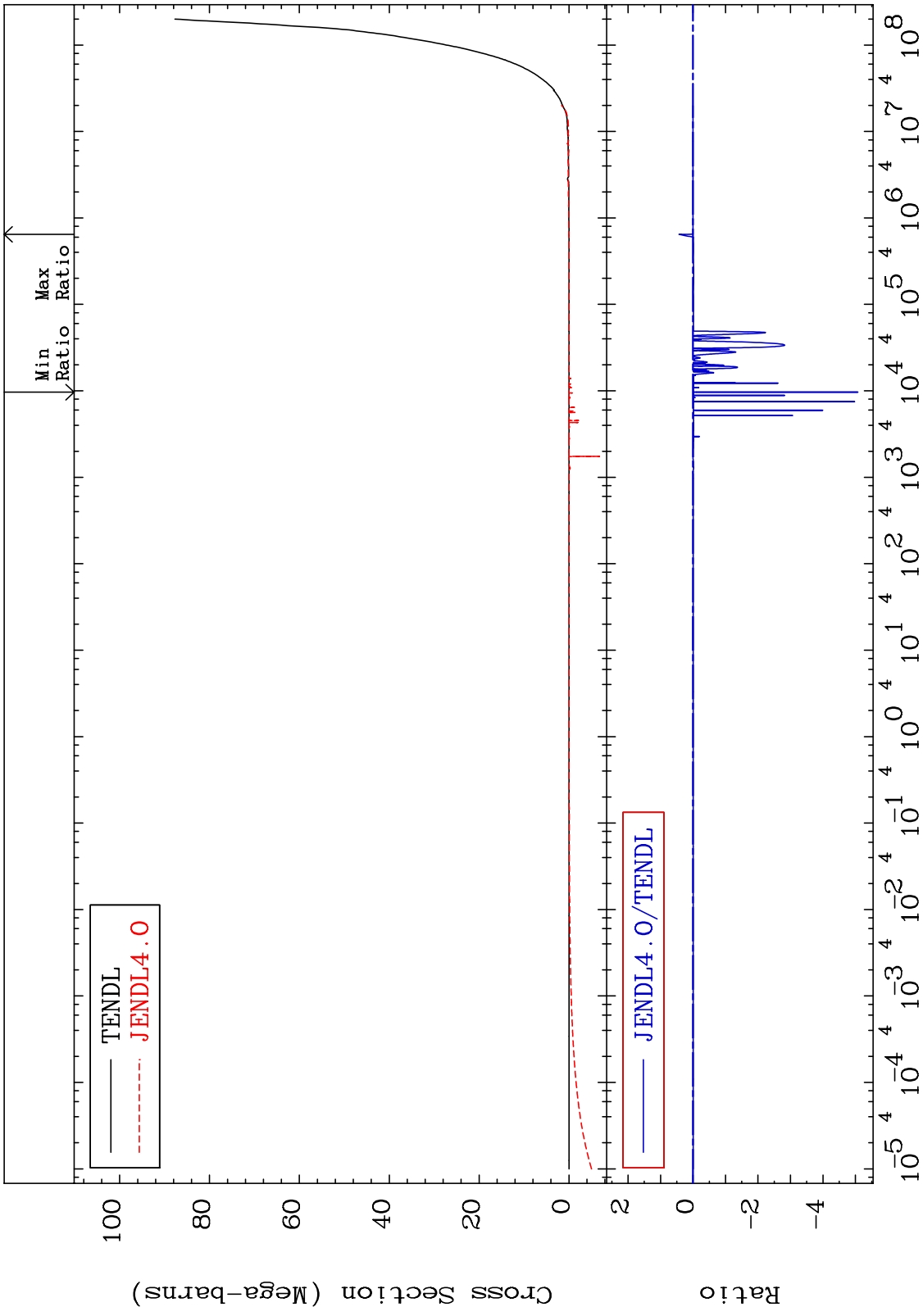
MAT 5843

Kerma elastic  
Cross Section

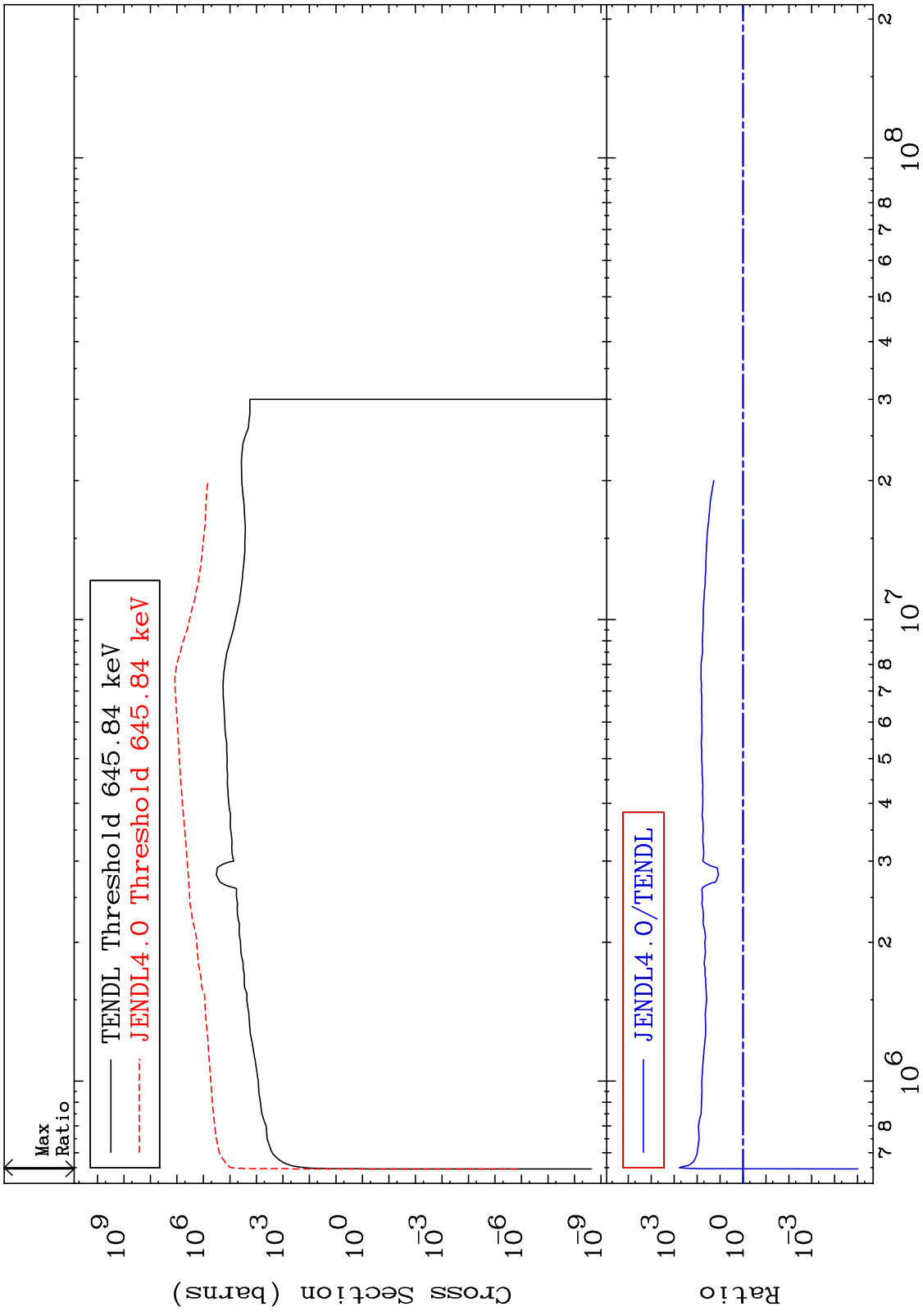
58-Ce-142  
-99.95 To 9999. %



MAT 5843      Kerma non-elastic (all but mt2)      58-Ce-142  
 Cross Section      -9999. To 9999. %



MAT 5843 Kerma inelastic (mt51-91) 58-Ce-142  
 -100.0 To 9999. %  
 Cross Section

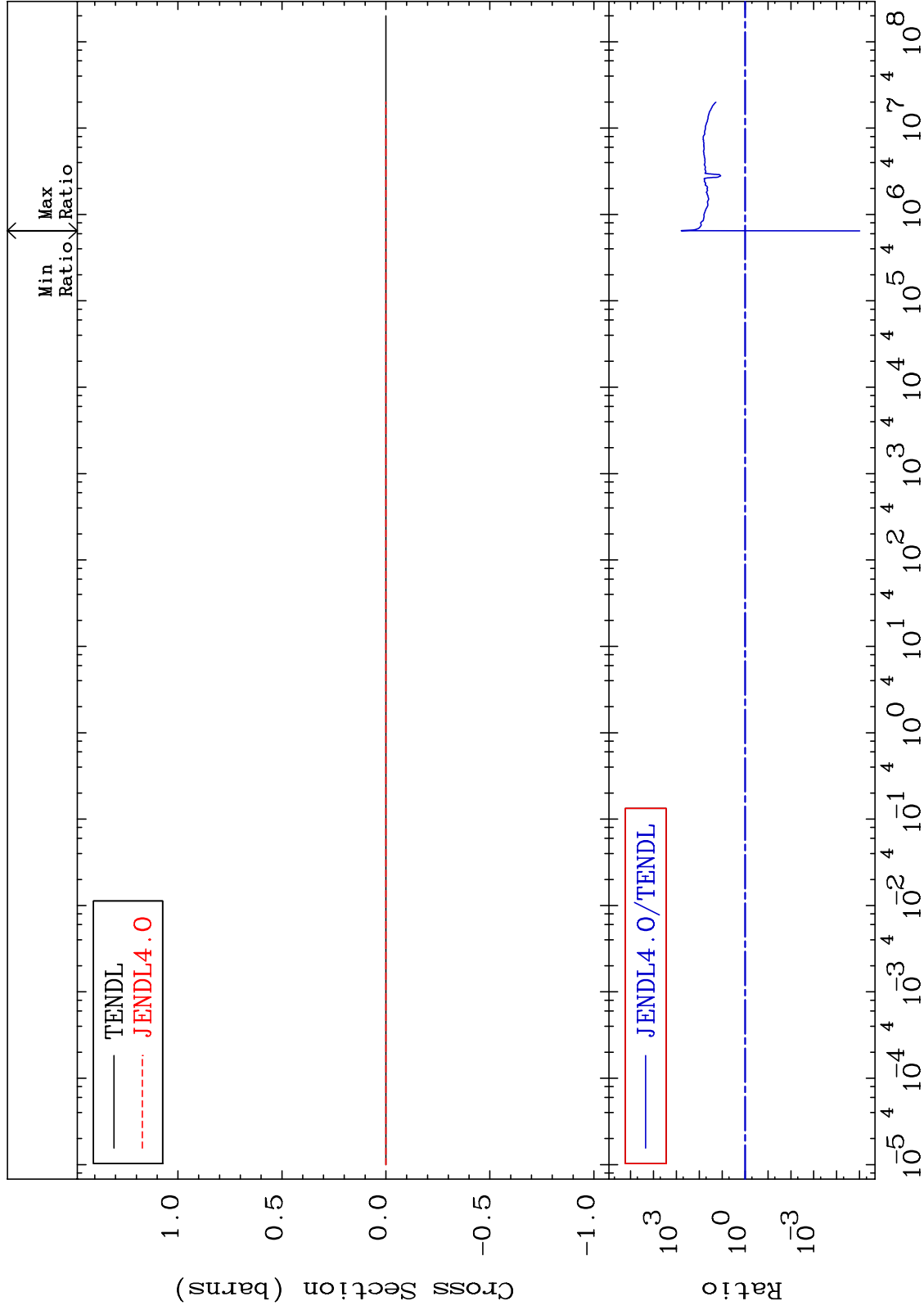




MAT 5843

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

58-Ce-142  
-100.0 To 9999. %

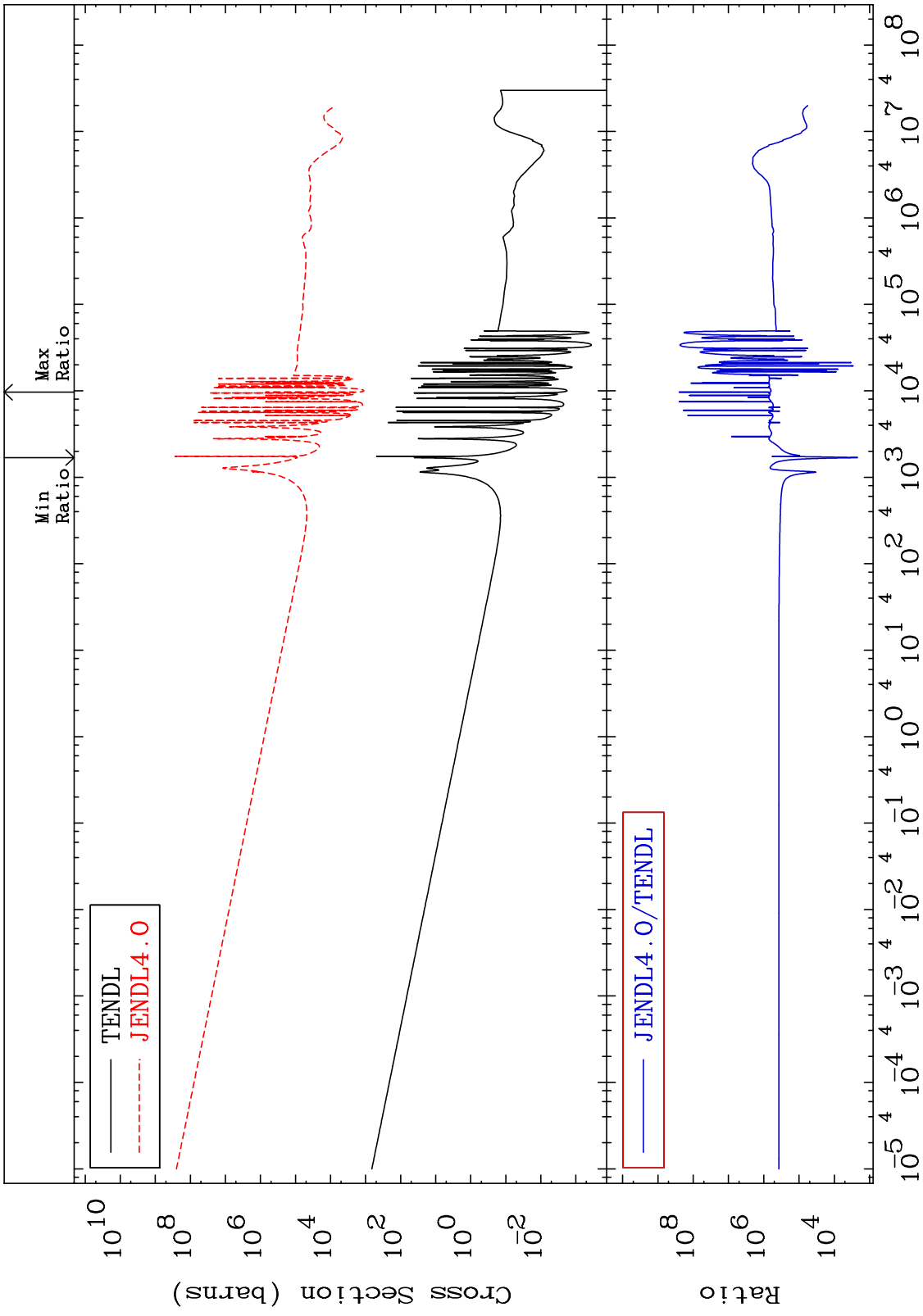


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Incident Energy (eV)

58-Ce-142

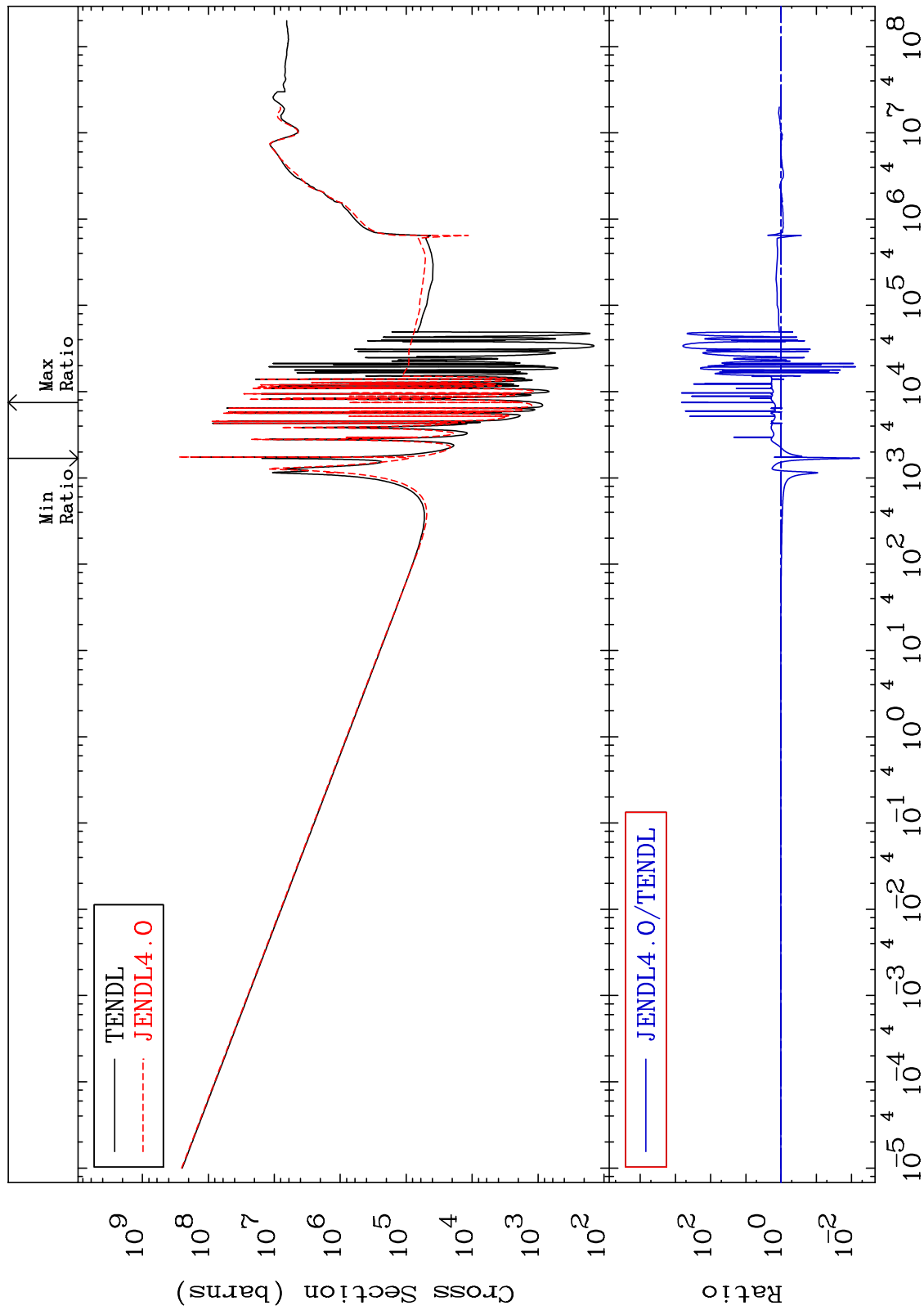
MAT 5843 Kerma capture (mt102) 58-Ce-142  
 Cross Section 9999. To 9999. %



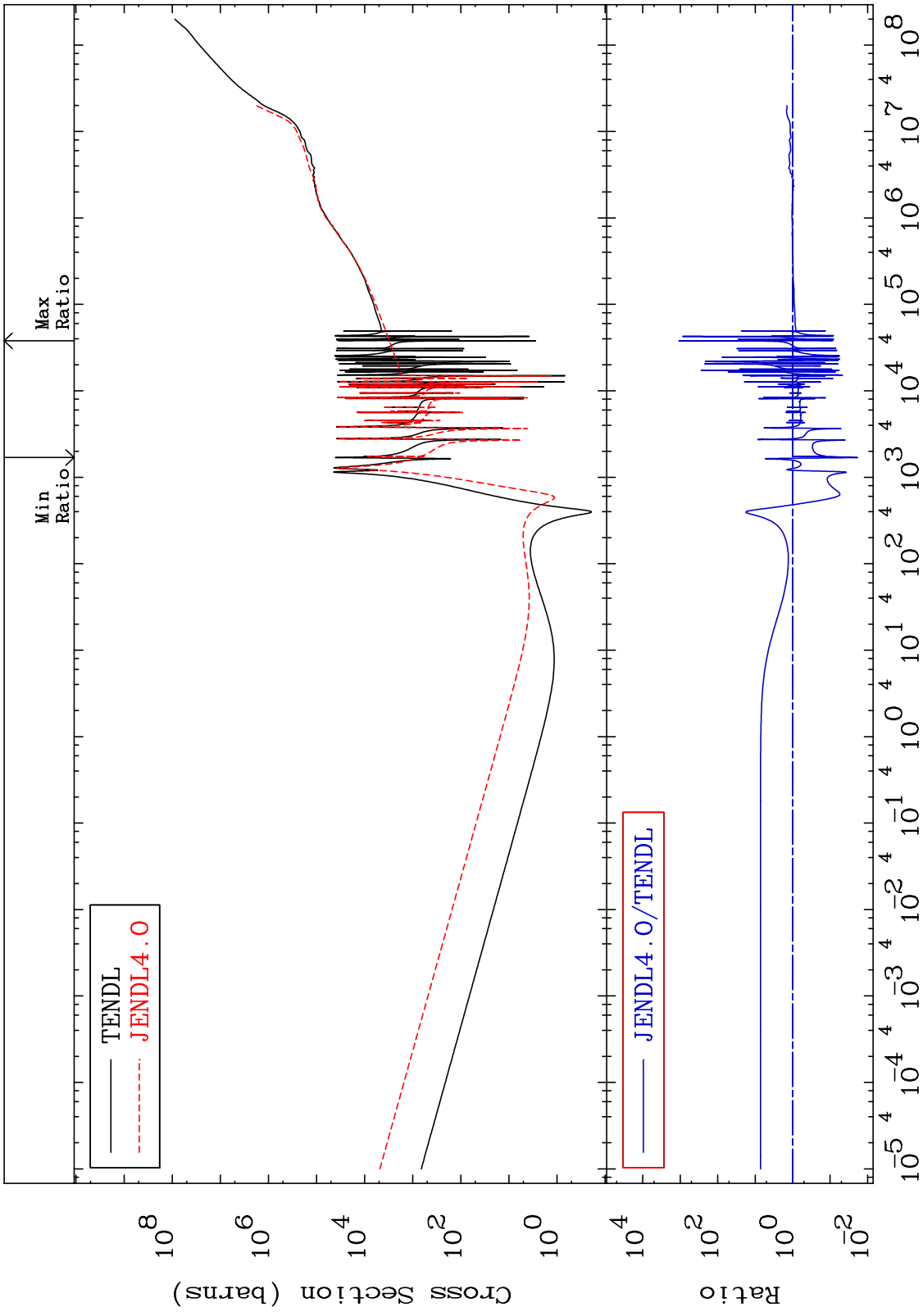
MAT 5843

Total photon (eV-barns)  
Cross Section

58-Ce-142  
-99.42 To 9999. %

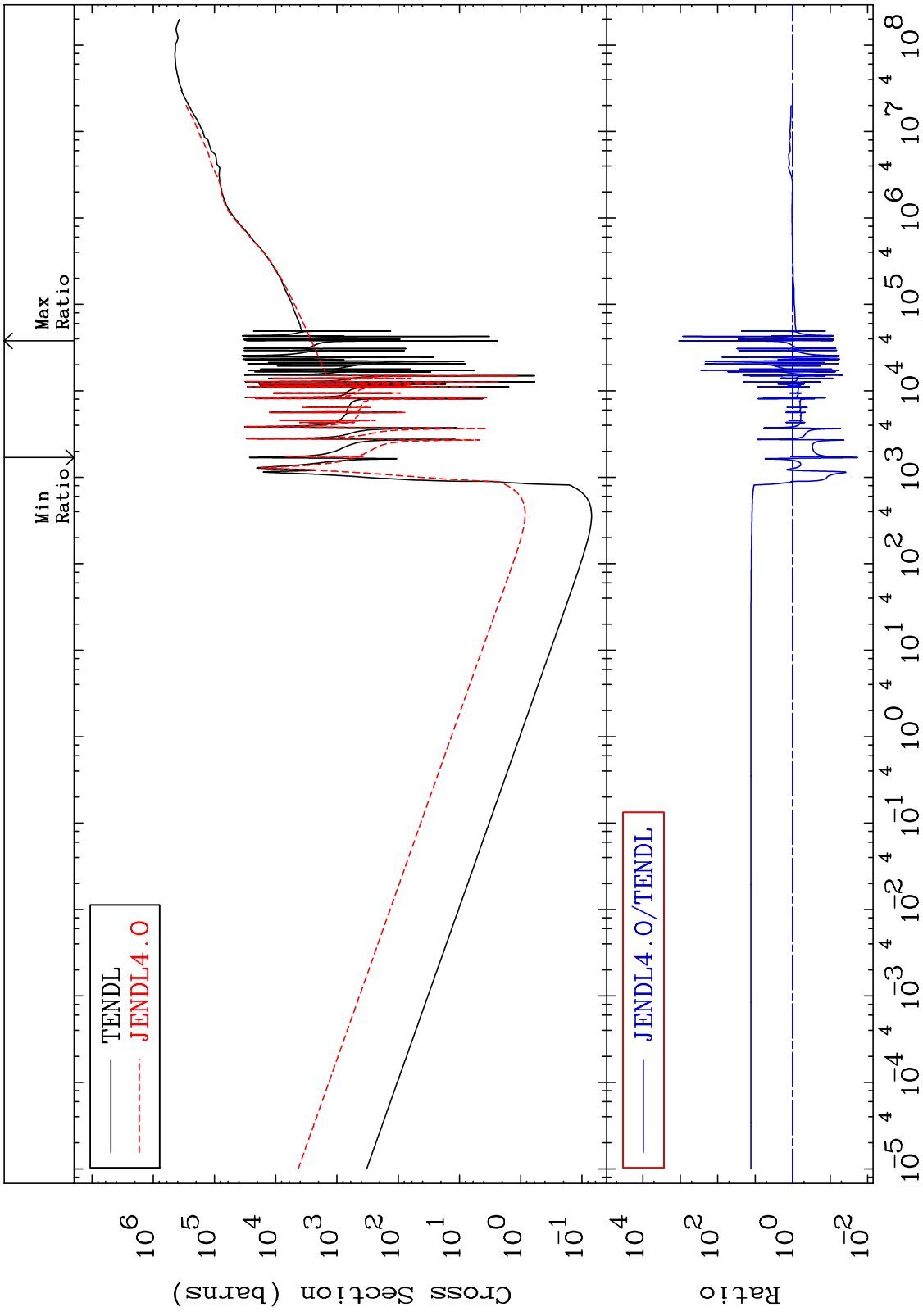


MAT 5843      Total kinematic kerma (high limit)      58-Ce-142  
 Cross Section      -98.18 To 9999. %



43      Incident Energy (eV)      58-Ce-142

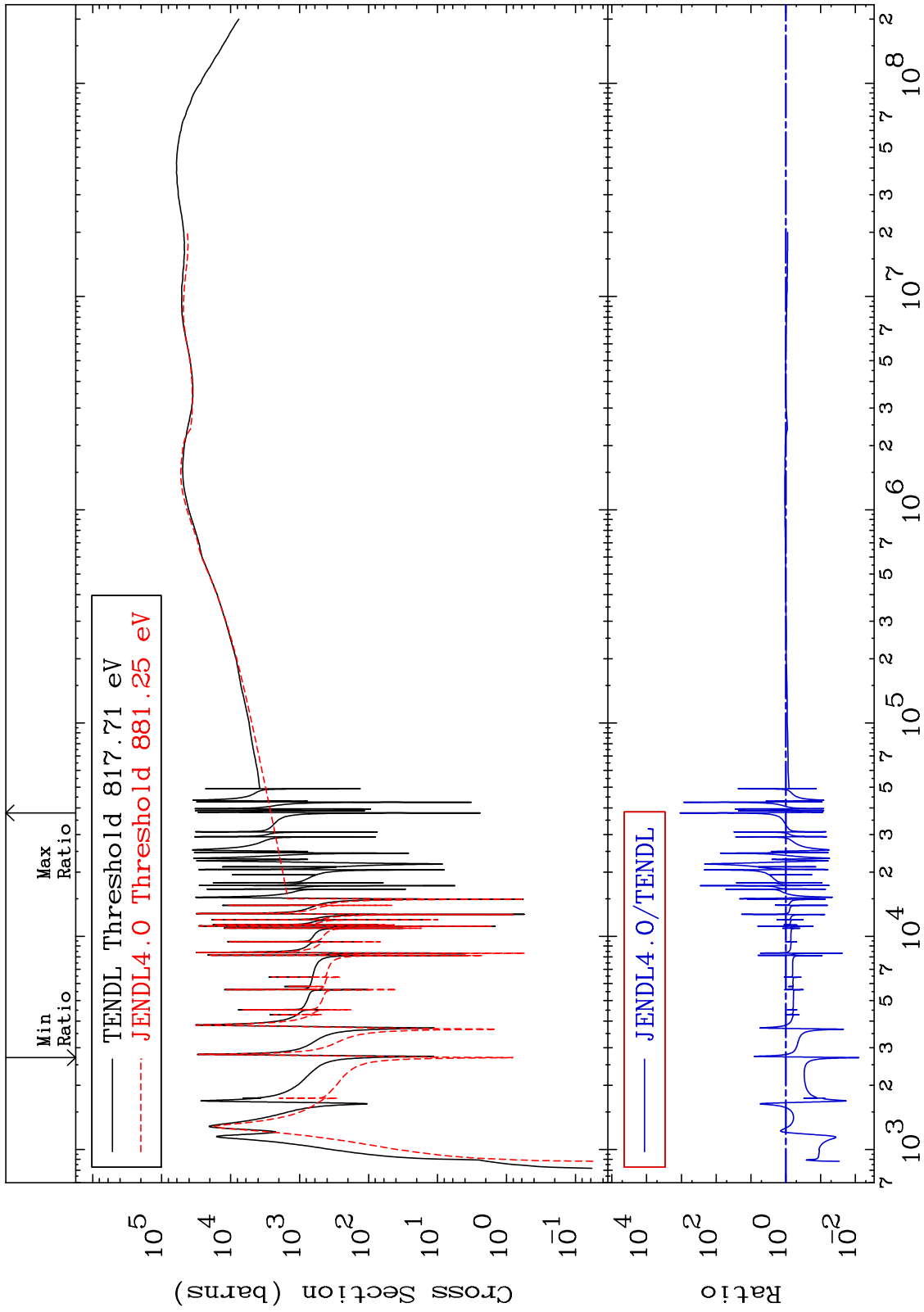
MAT 5843      Dpa total (eV-barns)      58-Ce-142  
 Cross Section      -98.18 To 9999. %



MAT 5843

Dpa elastic (mt2)  
Cross Section

58-Ce-142  
-99.20 To 9999. %

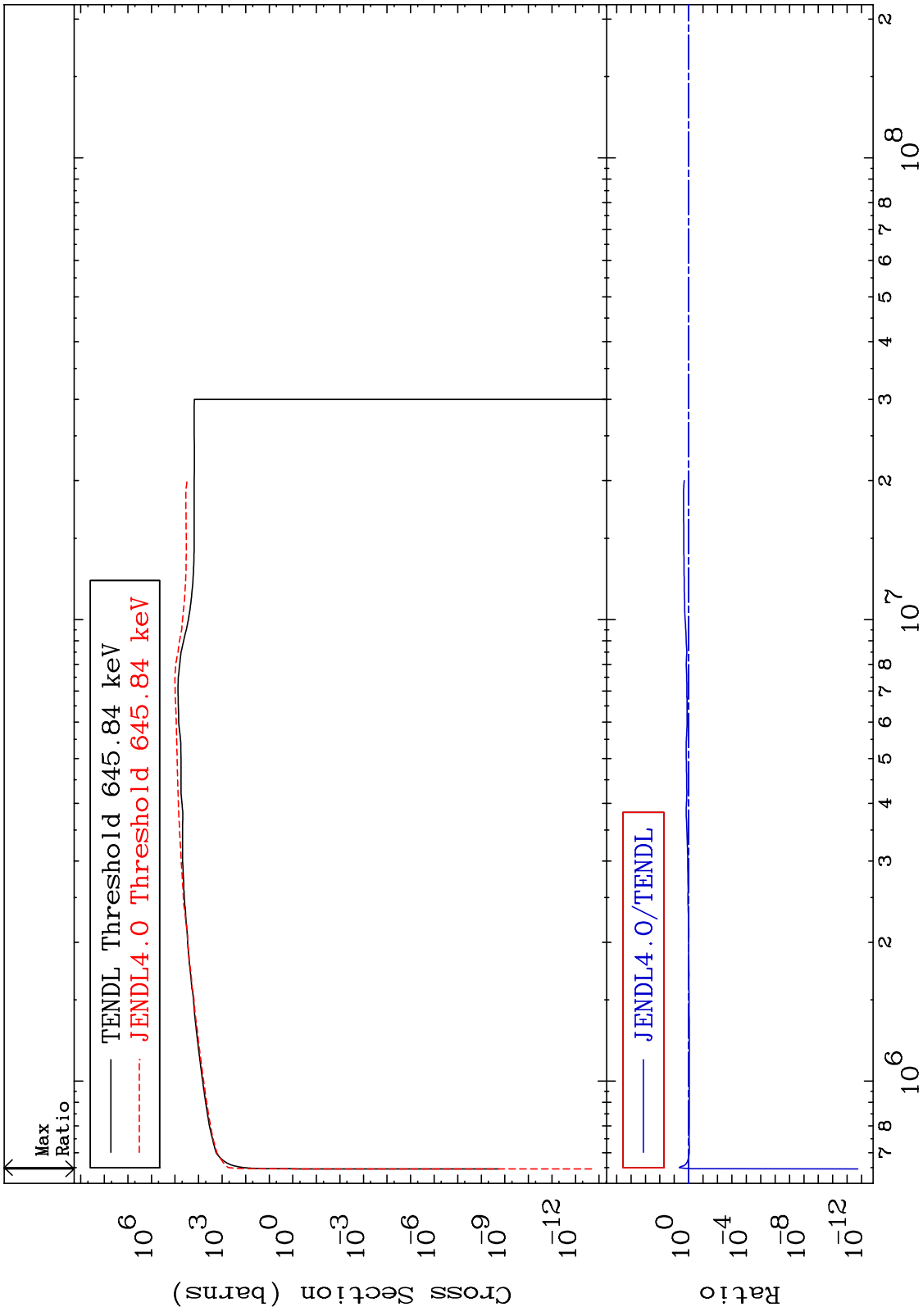


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Incident Energy (eV)

58-Ce-142

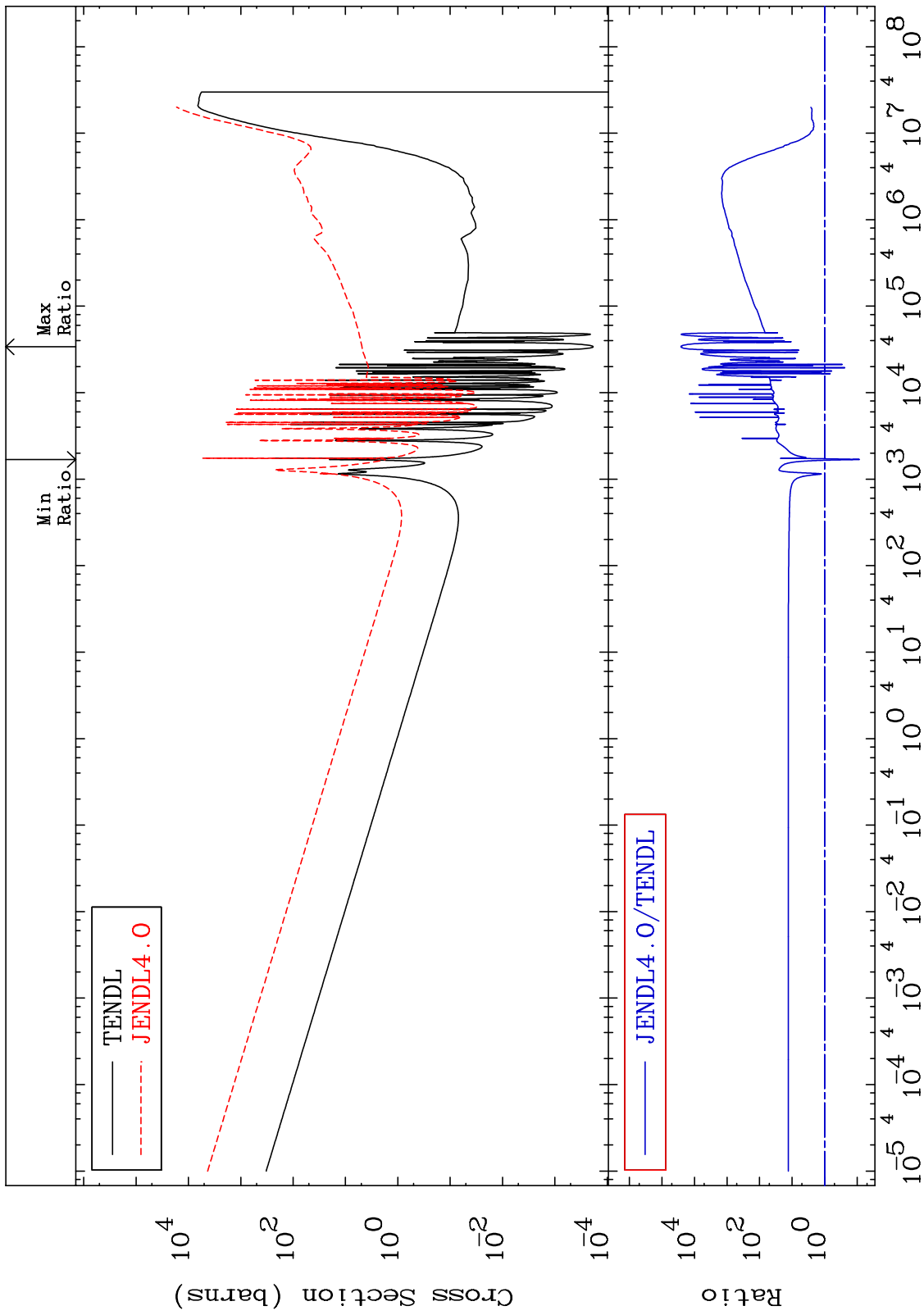
MAT 5843      Dpa inelastic (mt51-91)      58-Ce-142  
 Cross Section      -100.0 To 364.4 %



MAT 5843

Dpa disappearance (mt102 -120)  
Cross Section

58-Ce-142  
-91.59 To 9999. %



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Incident Energy (eV)

58-Ce-142