

Program Complot  
(Version 2018-1)

by

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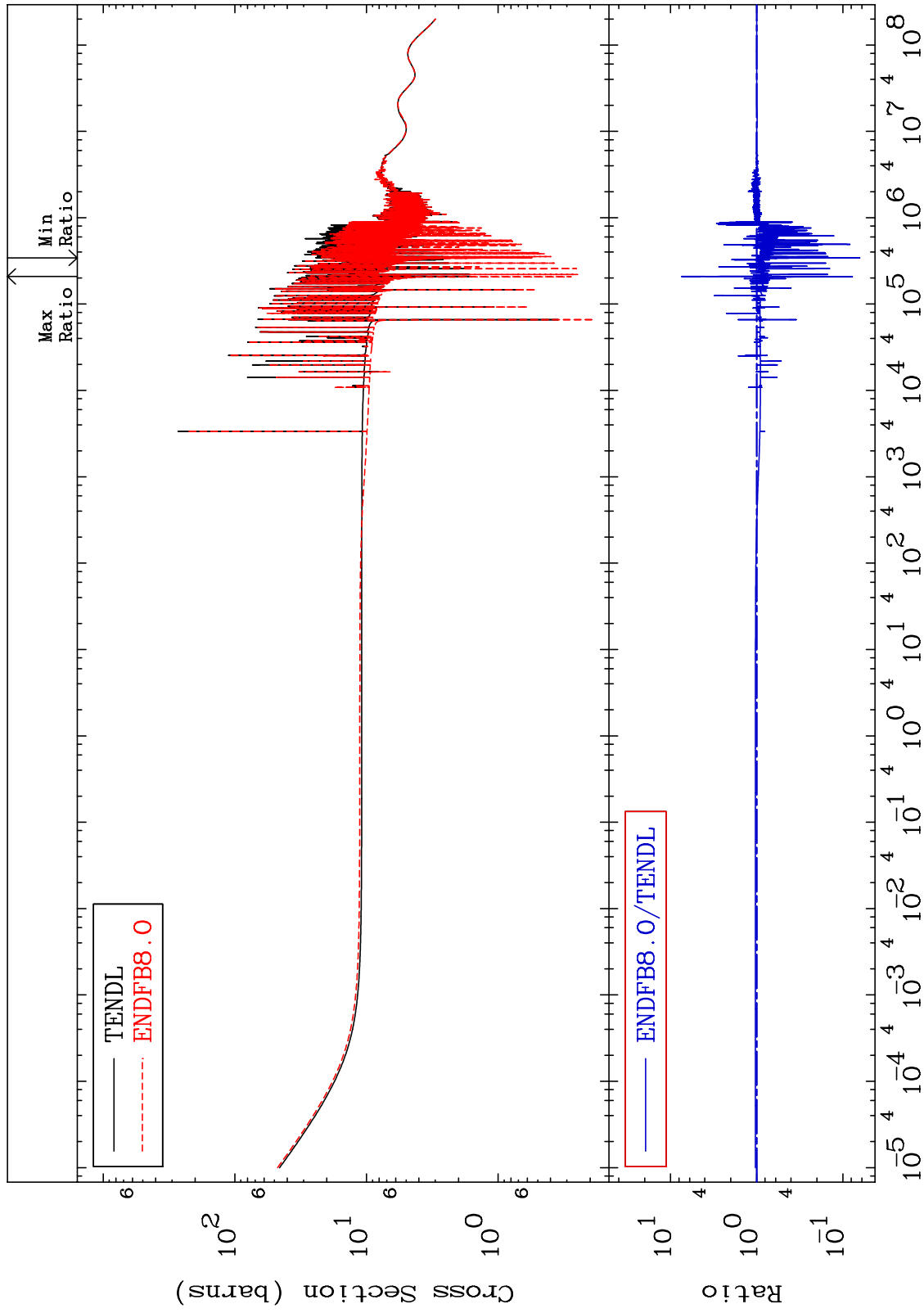
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 8231

Total  
Cross Section

82-Pb-206  
-93.64 To 651.4 %

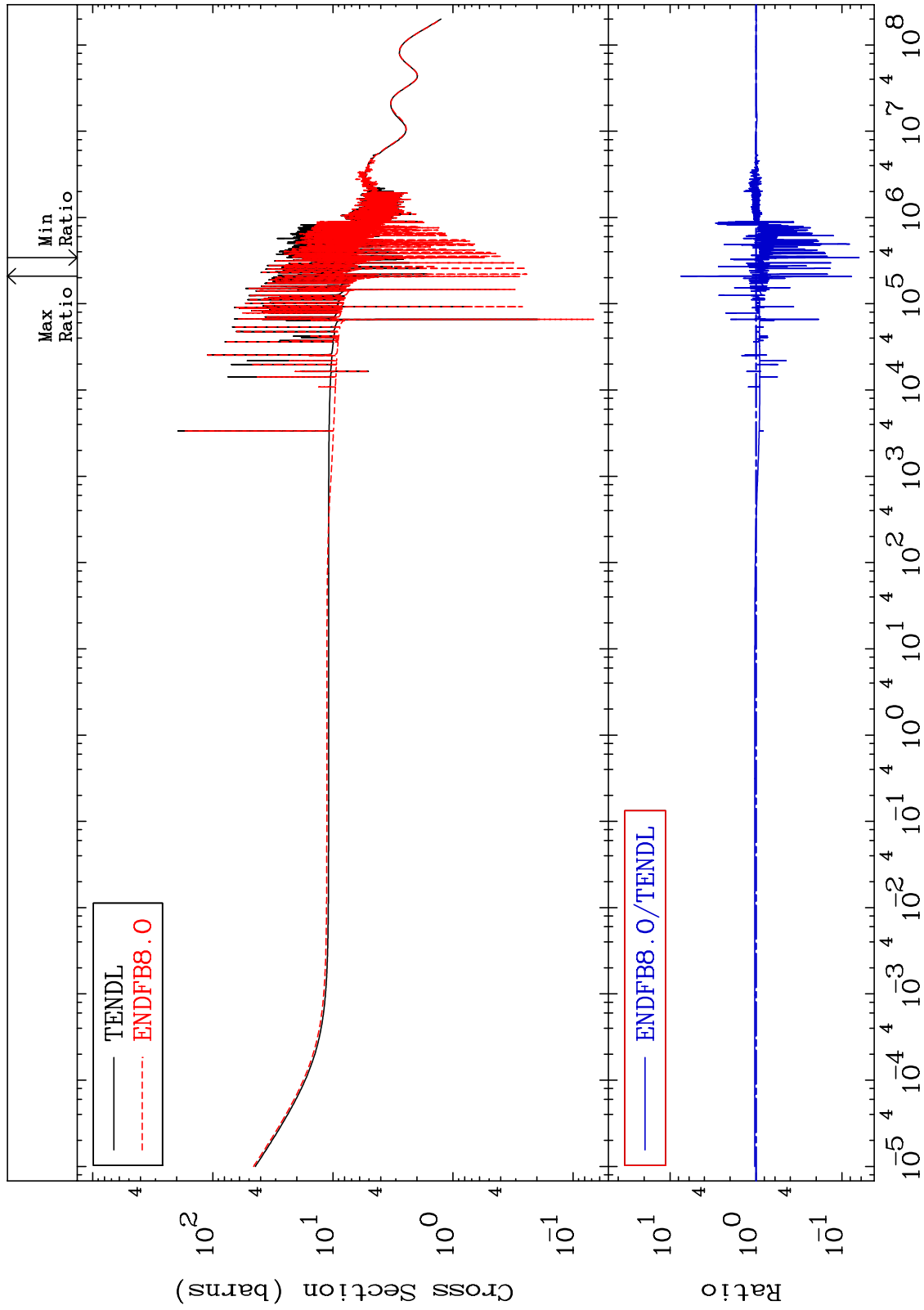


1

Incident Energy (eV)

82-Pb-206

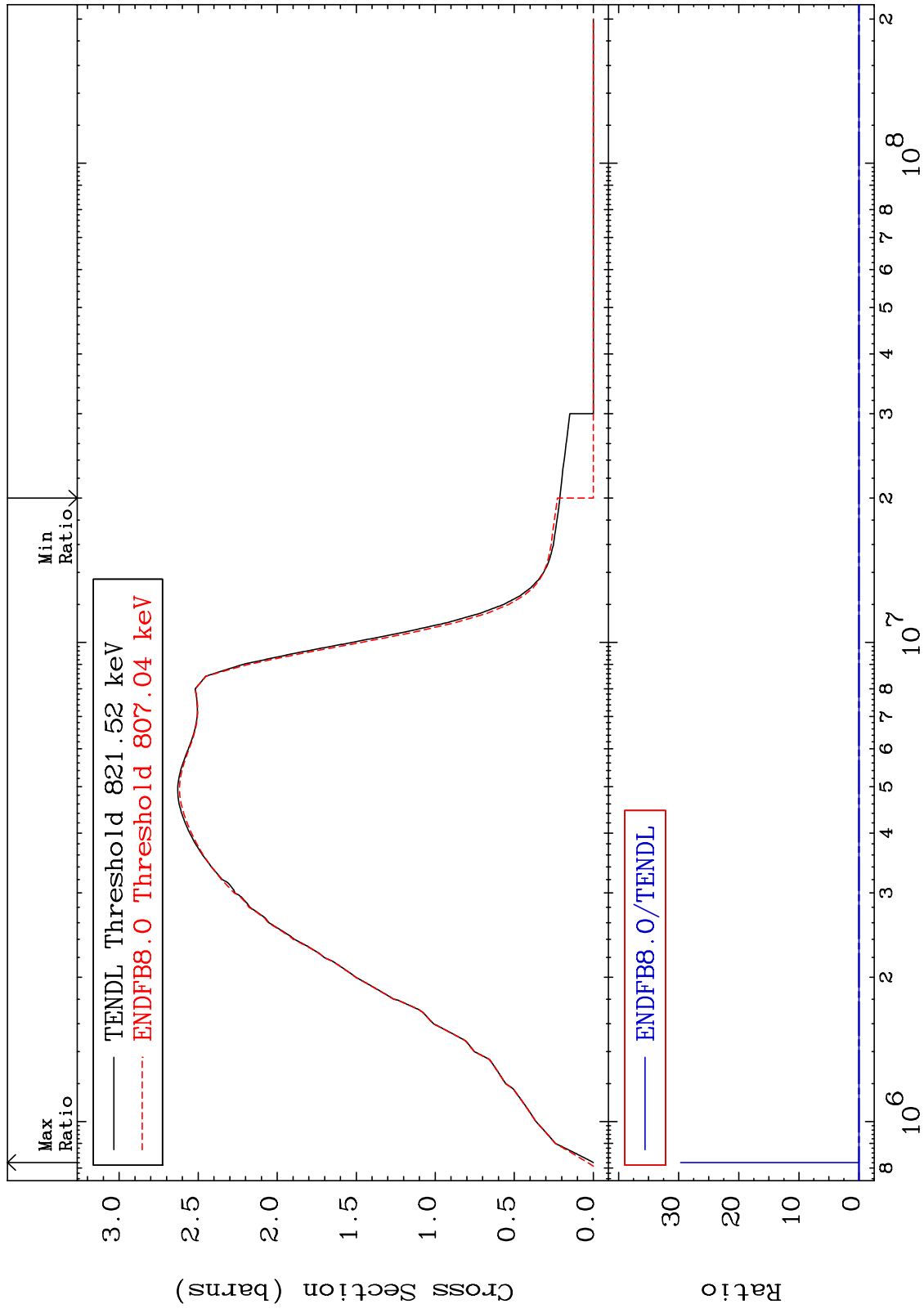
MAT 8231 Elastic Cross Section 82-Pb-206 -93.66 To 653.2 %



82-Pb-206

Incident Energy (eV)

MAT 8231 Inelastic Cross Section 82-Pb-206 -100.0 To 9999. %

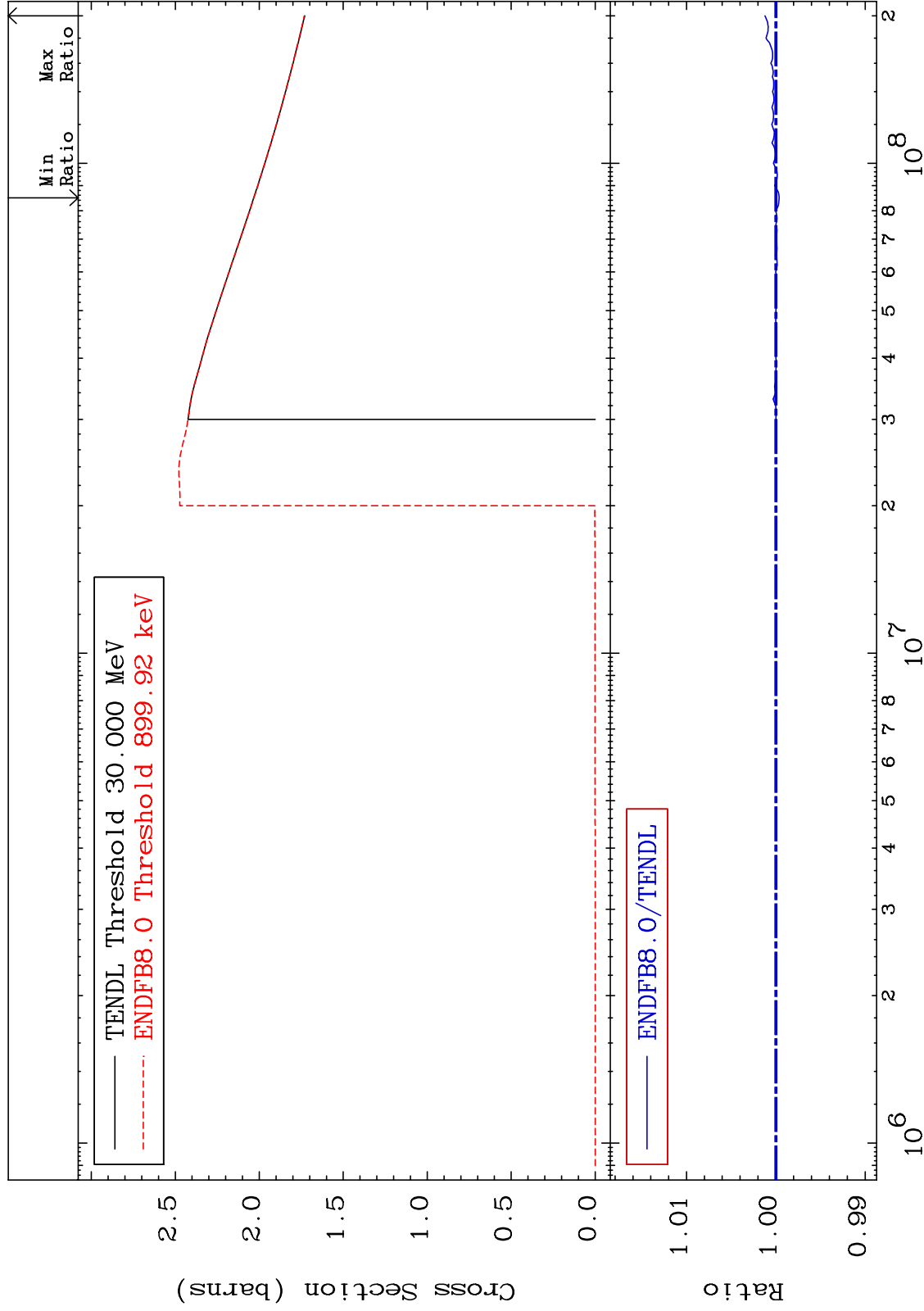


3 Incident Energy (eV) 82-Pb-206

MAT 8231

(n, remainder)  
Cross Section

82-Pb-206  
-0.037 To 0.123 %

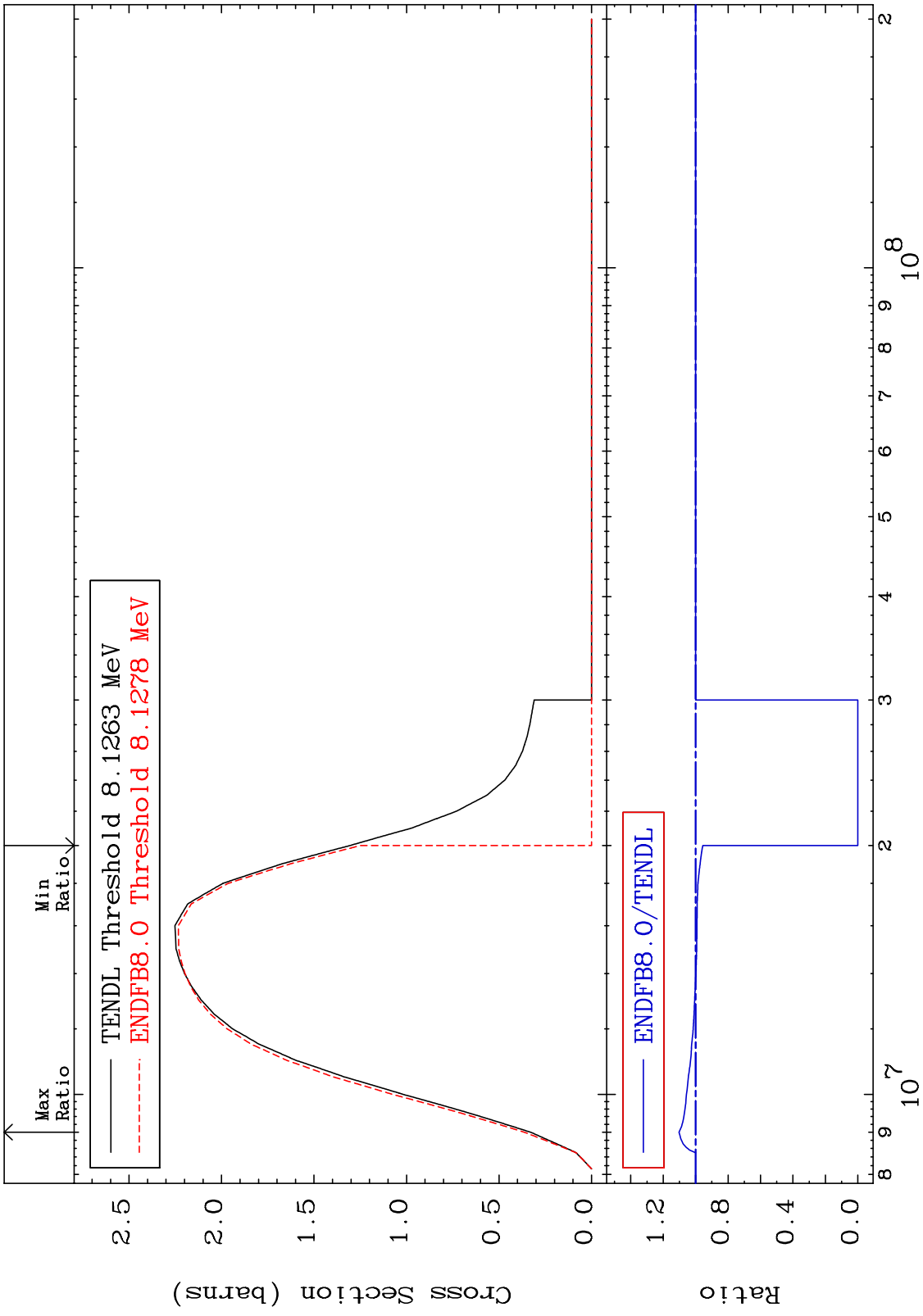


4

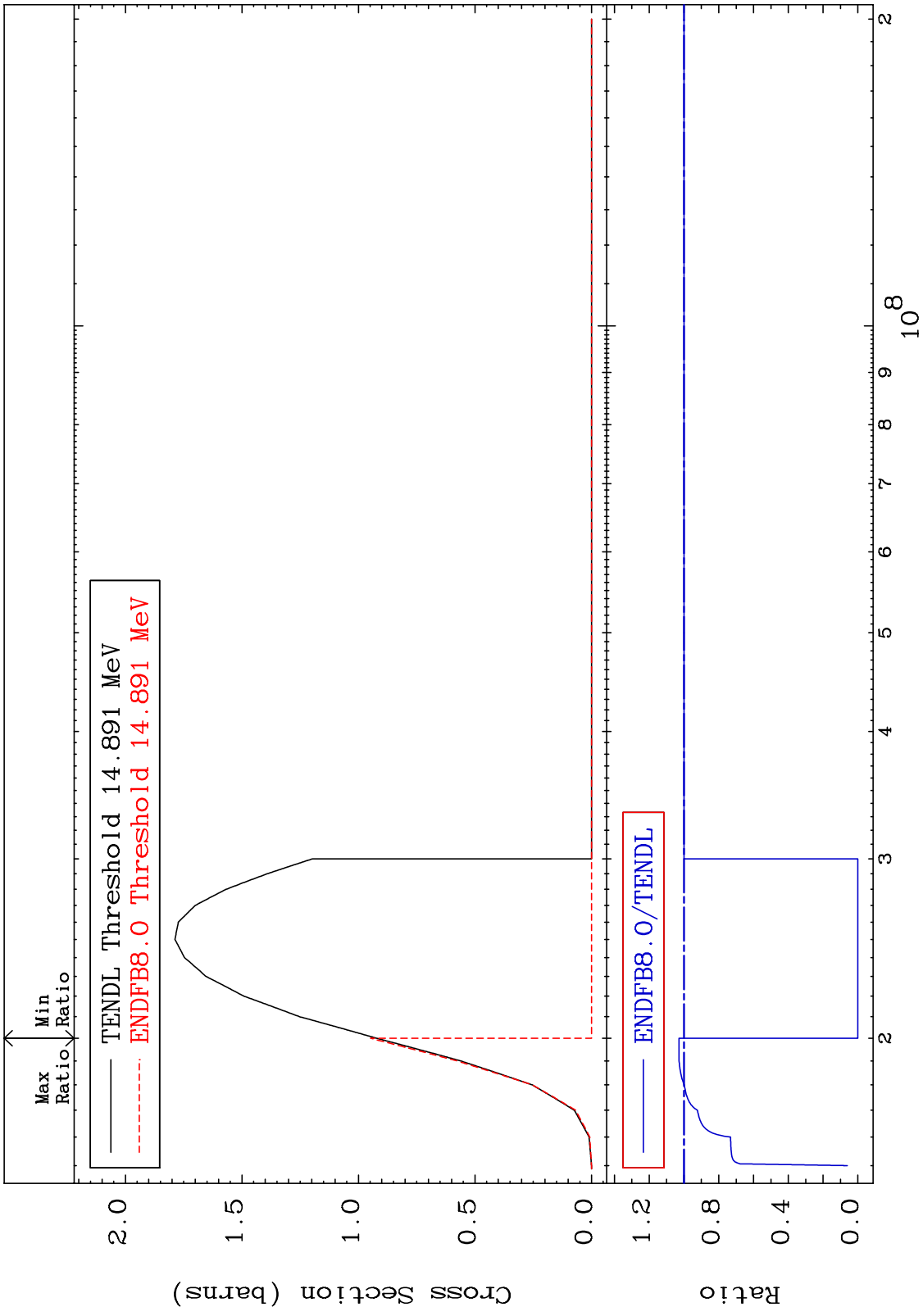
Incident Energy (eV)

82-Pb-206

MAT 8231 (n,2n) Cross Section 82-Pb-206 -100.0 To 10.24 %



5 Incident Energy (eV) 82-Pb-206



MAT 8231

(n, n')  $\alpha$

82-Pb-206

-100.0 To 9999. %

Cross Section

Max Ratio

Min Ratio

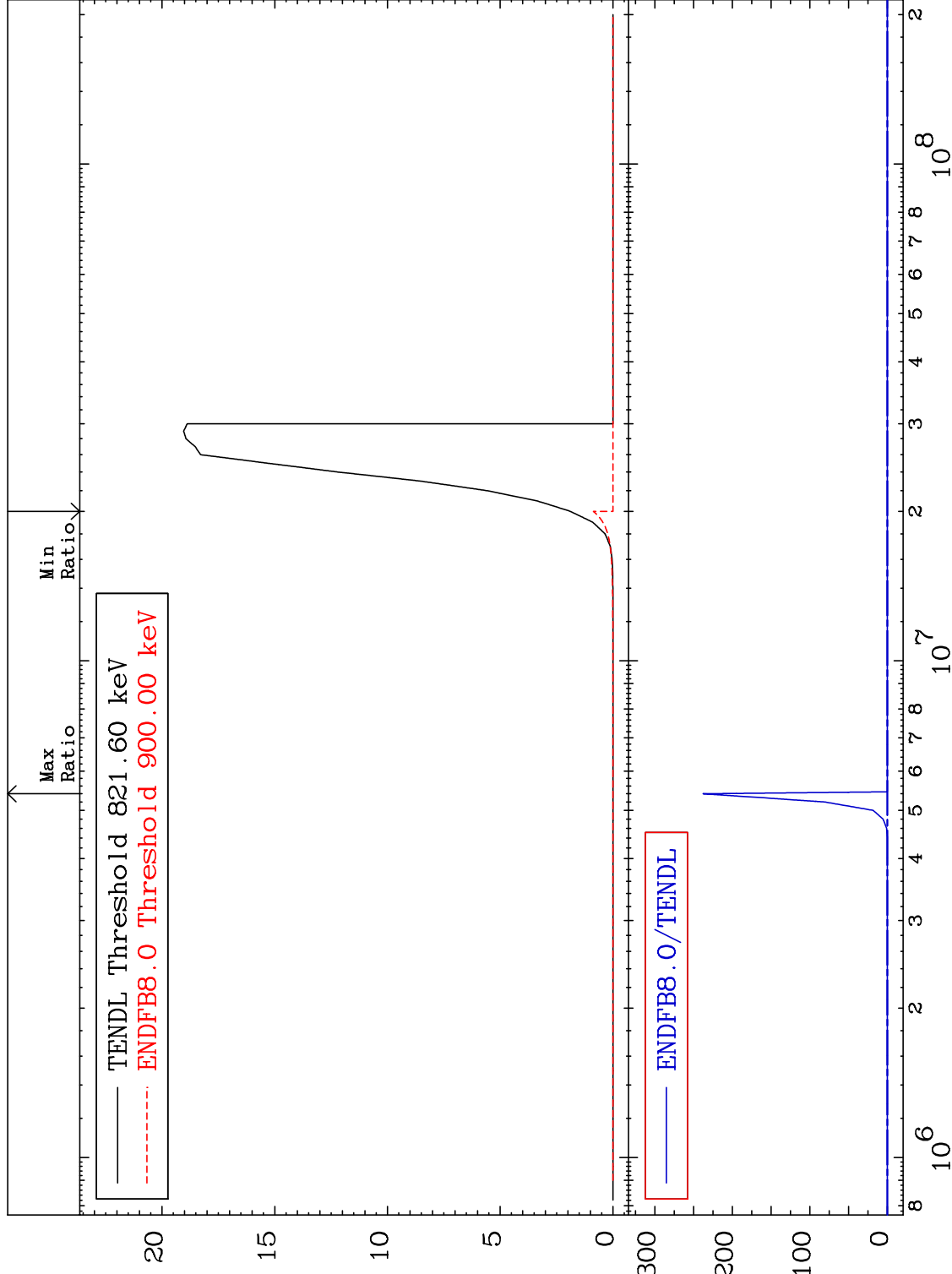
TENDL Threshold 821.60 keV  
ENDFB8.0 Threshold 900.00 keV

ENDFB8.0/TENDL

Cross Section (milli-barns)

Ratio

7

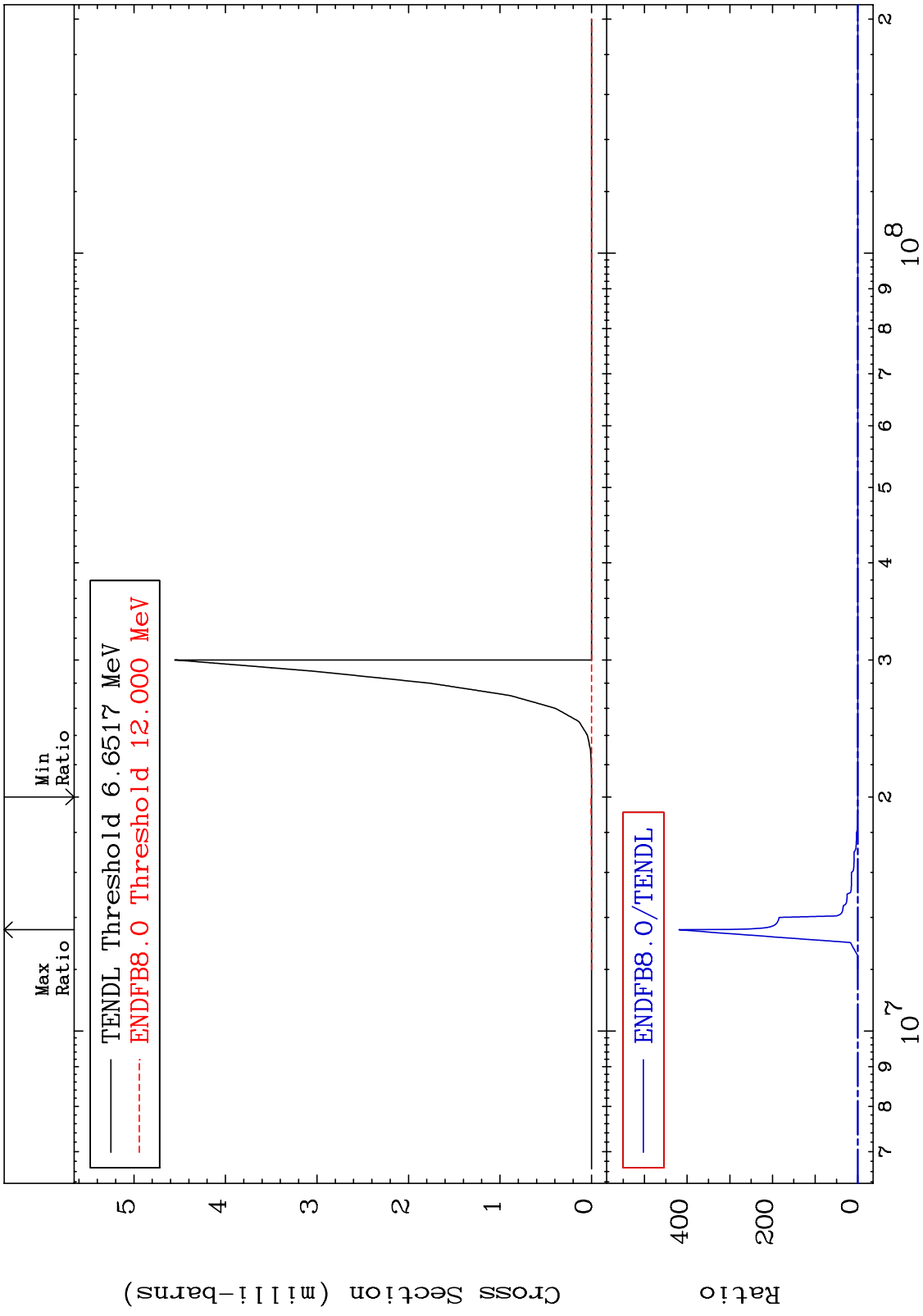


Incident Energy (eV)

82-Pb-206

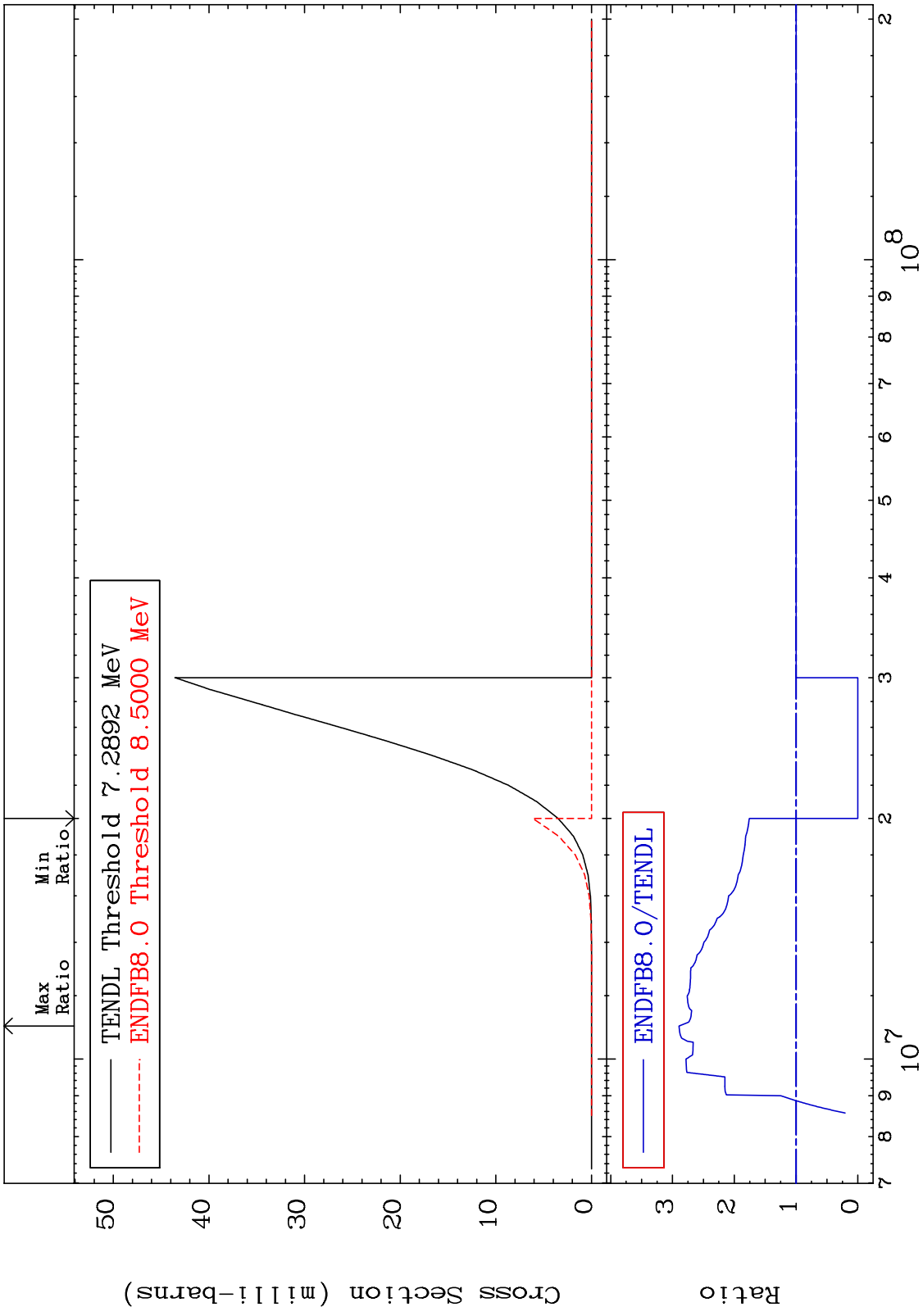


MAT 8231  $(n, 2n) \alpha$  82-Pb-206  
 Cross Section -100.0 To 9999. %



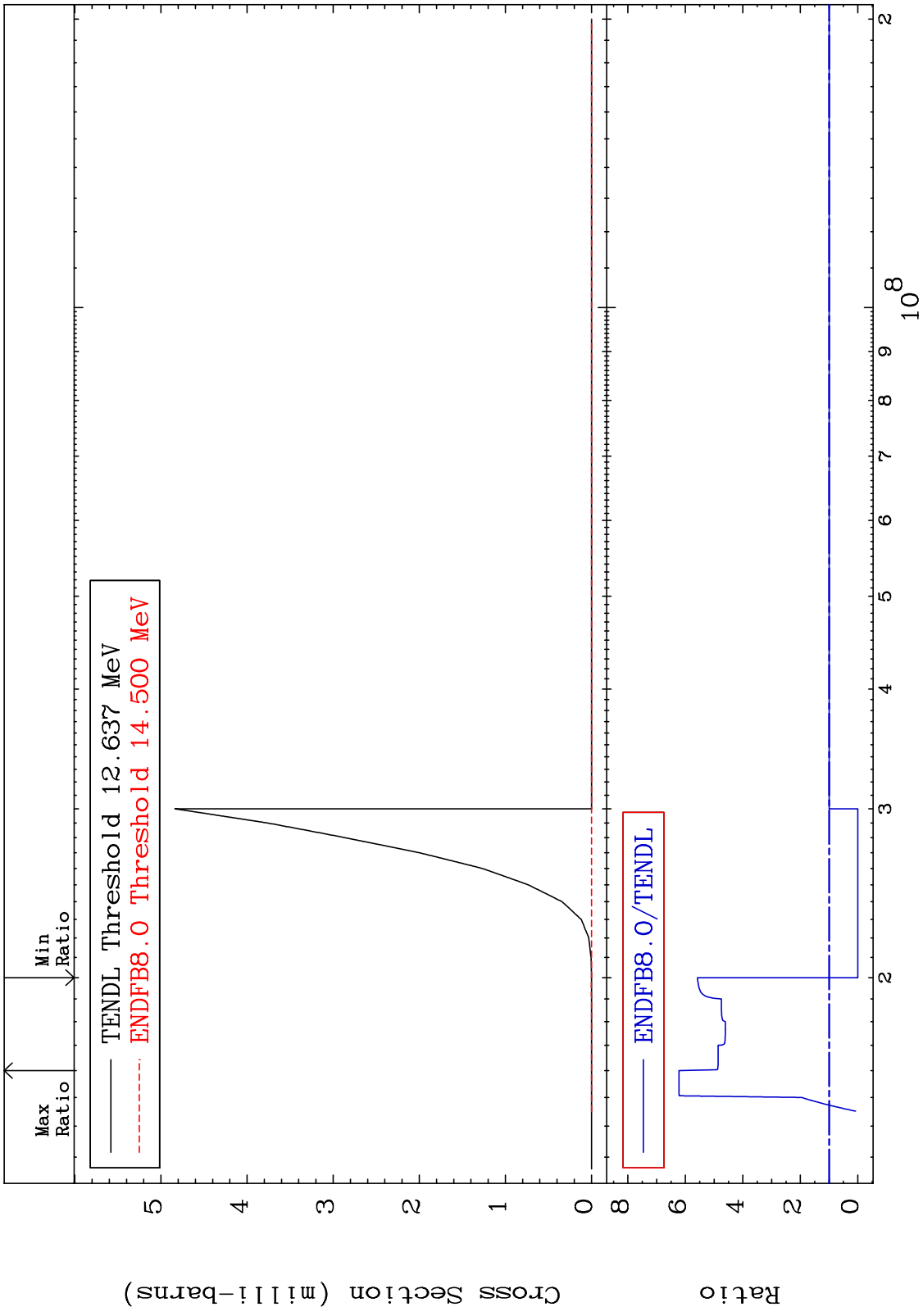
8 82-Pb-206

MAT 8231 (n,n') p 82-Pb-206  
 Cross Section -100.0 To 189.4 %

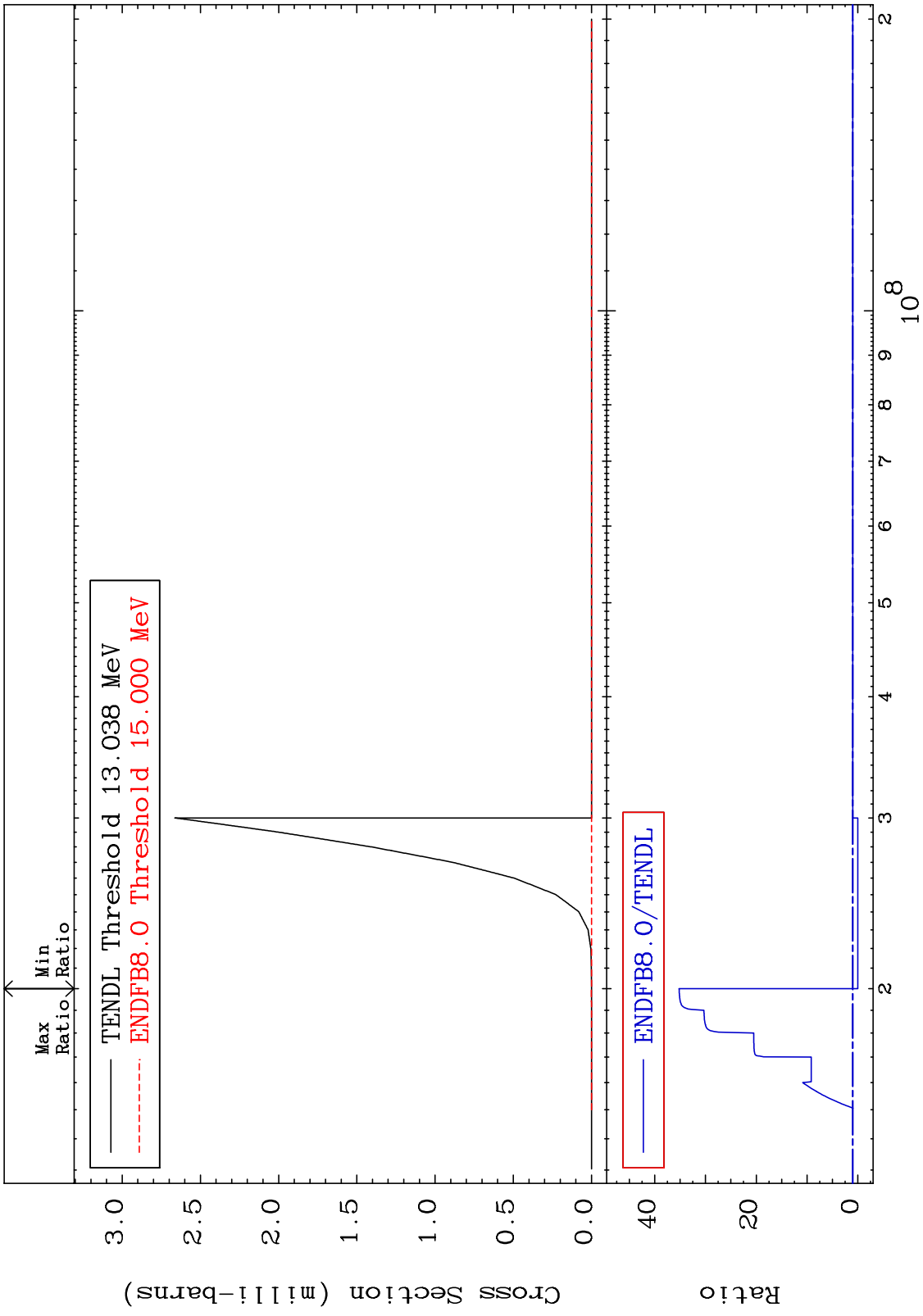


9 Incident Energy (eV) 82-Pb-206

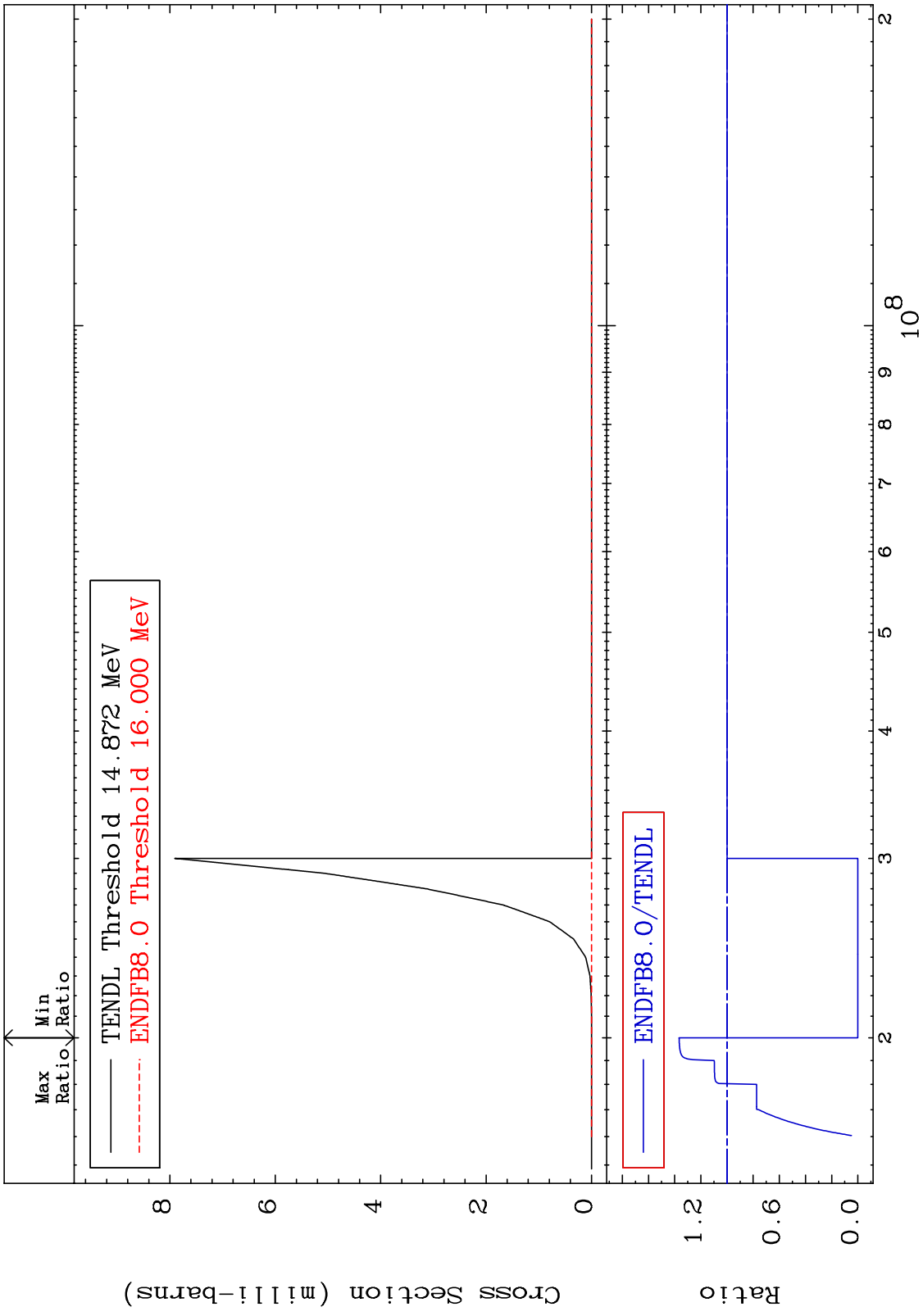
MAT 8231 (n,n') d 82-Pb-206  
 Cross Section -100.0 To 522.1 %



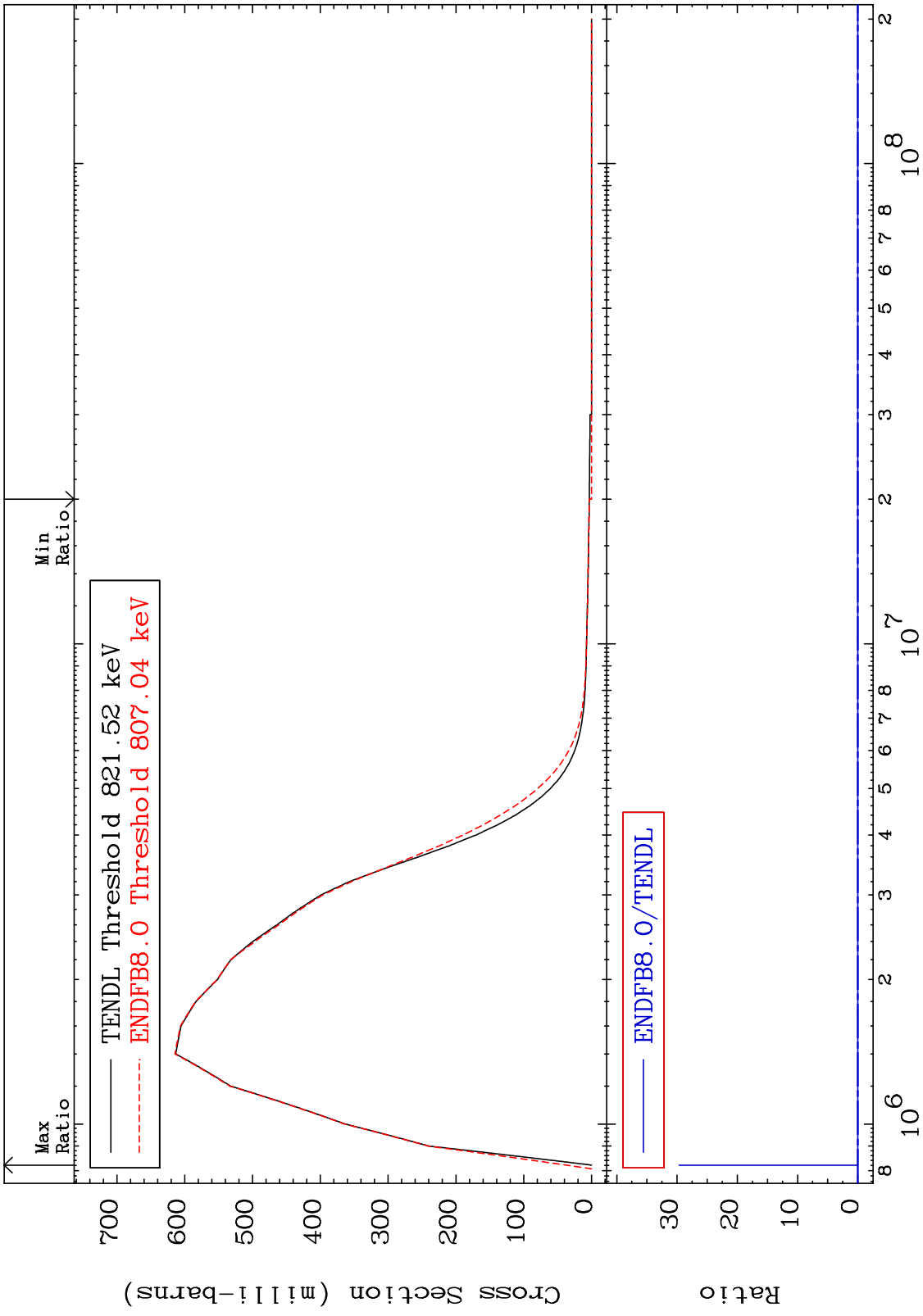
MAT 8231 (n,n') t 82-Pb-206  
 Cross Section -100.0 To 3420. %



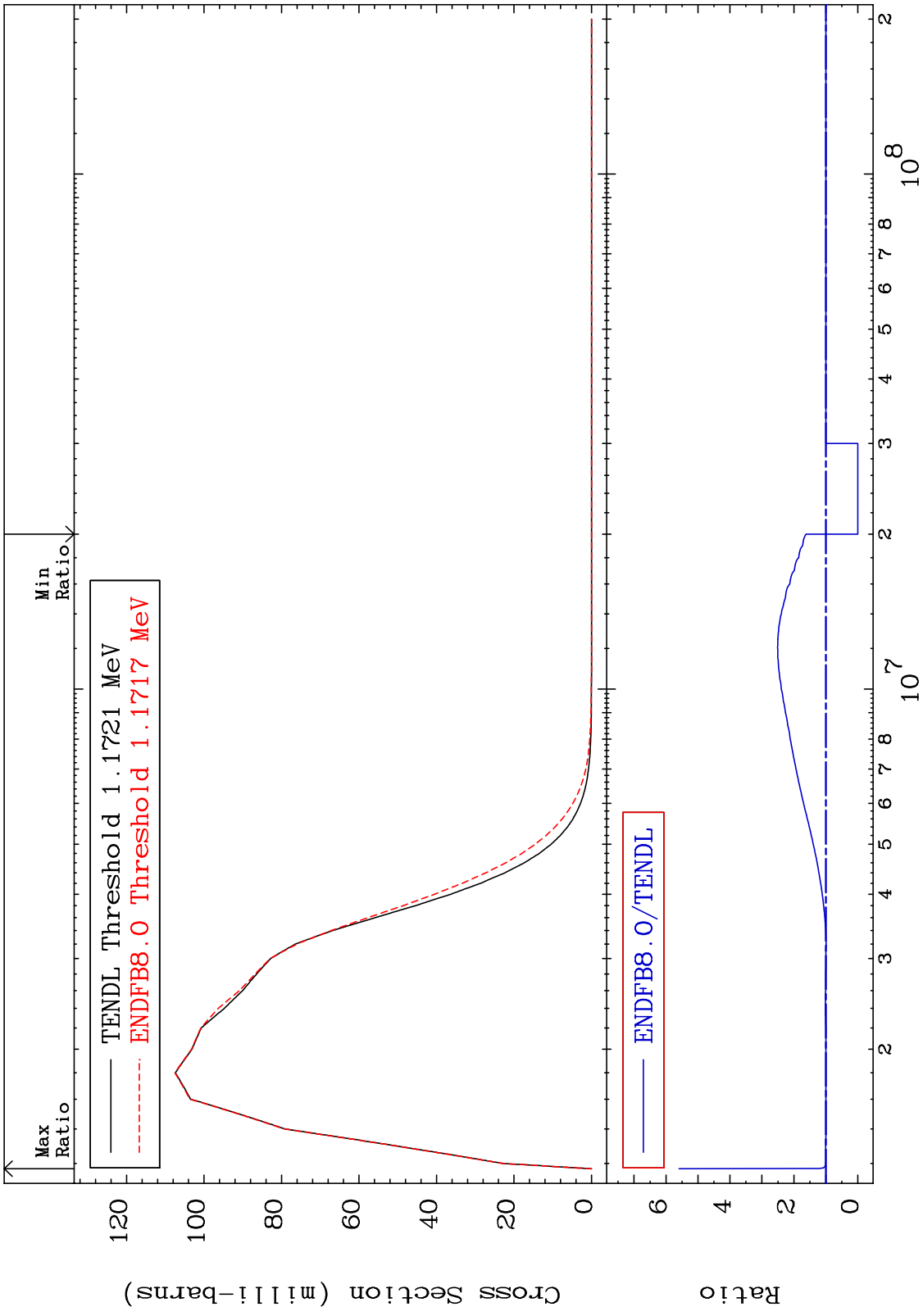
MAT 8231 (n,2n) p 82-Pb-206  
 Cross Section -100.0 To 36.64 %



MAT 8231 MT= 51 (n,n') Level Cross Section 82-Pb-206 -100.0 To 9999. %



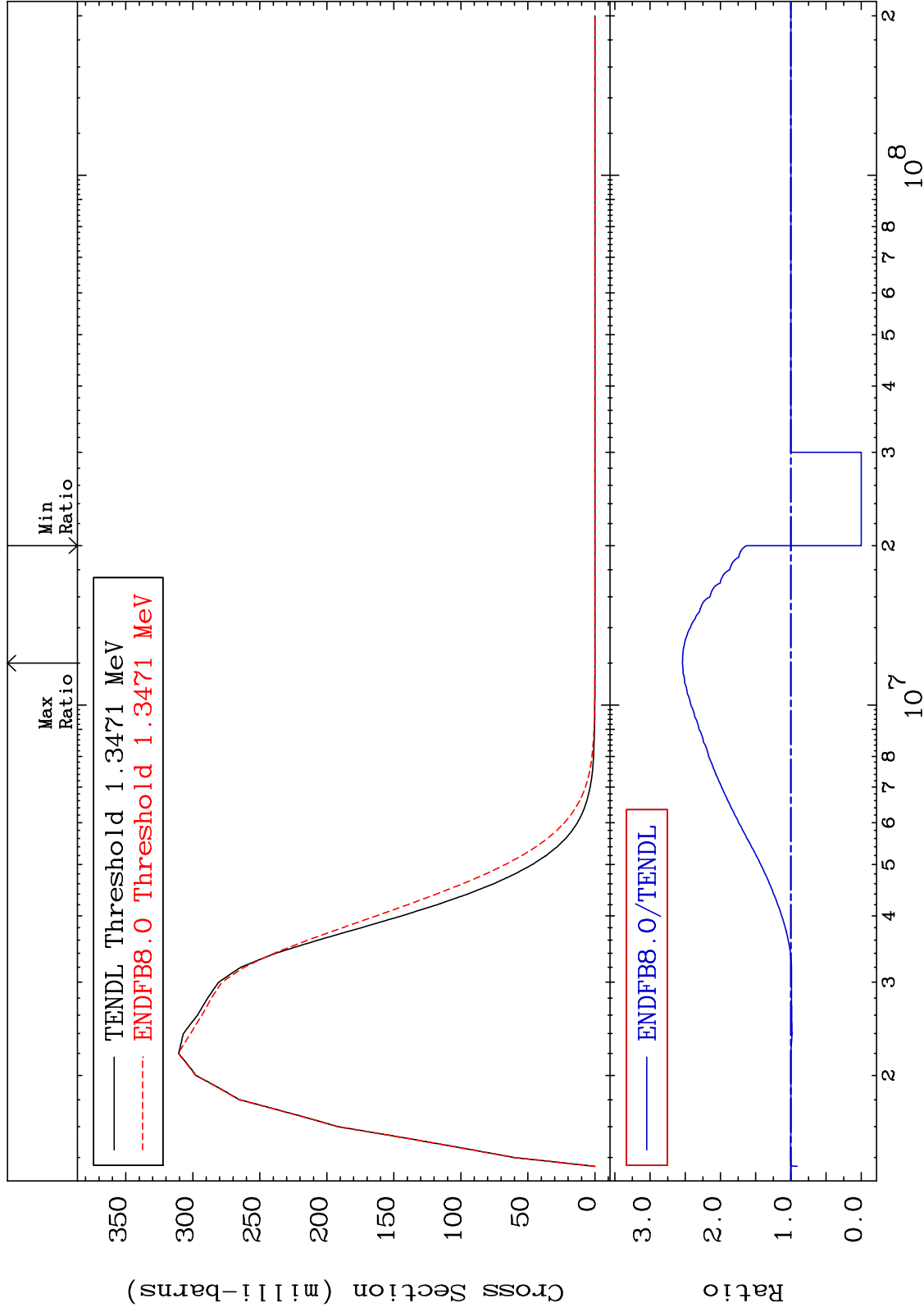
MAT 8231 MT= 52 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 459.3 %



MAT 8231

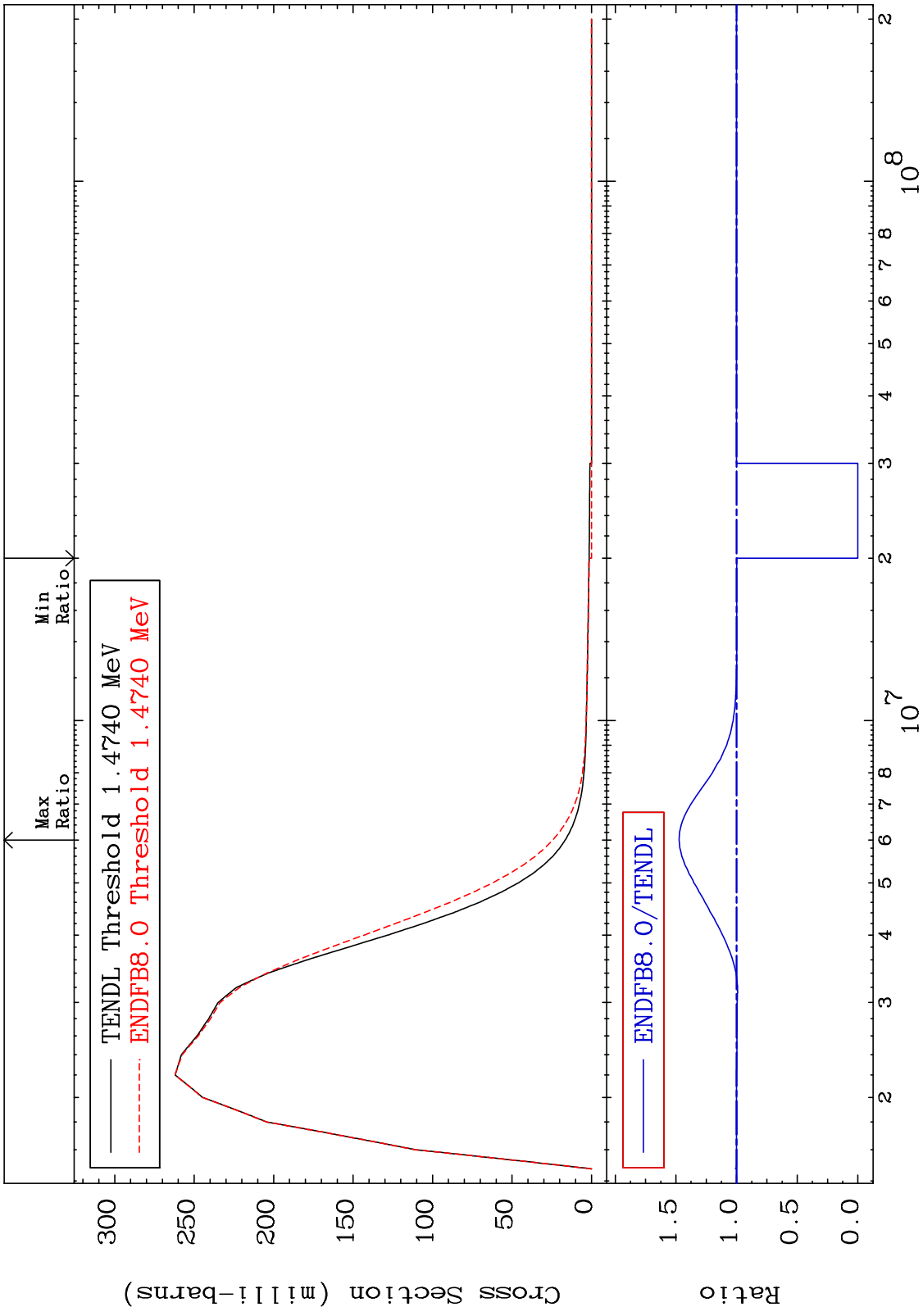
MT= 53 (n,n') Level  
Cross Section

82-Pb-206  
-100.0 To 153.9 %





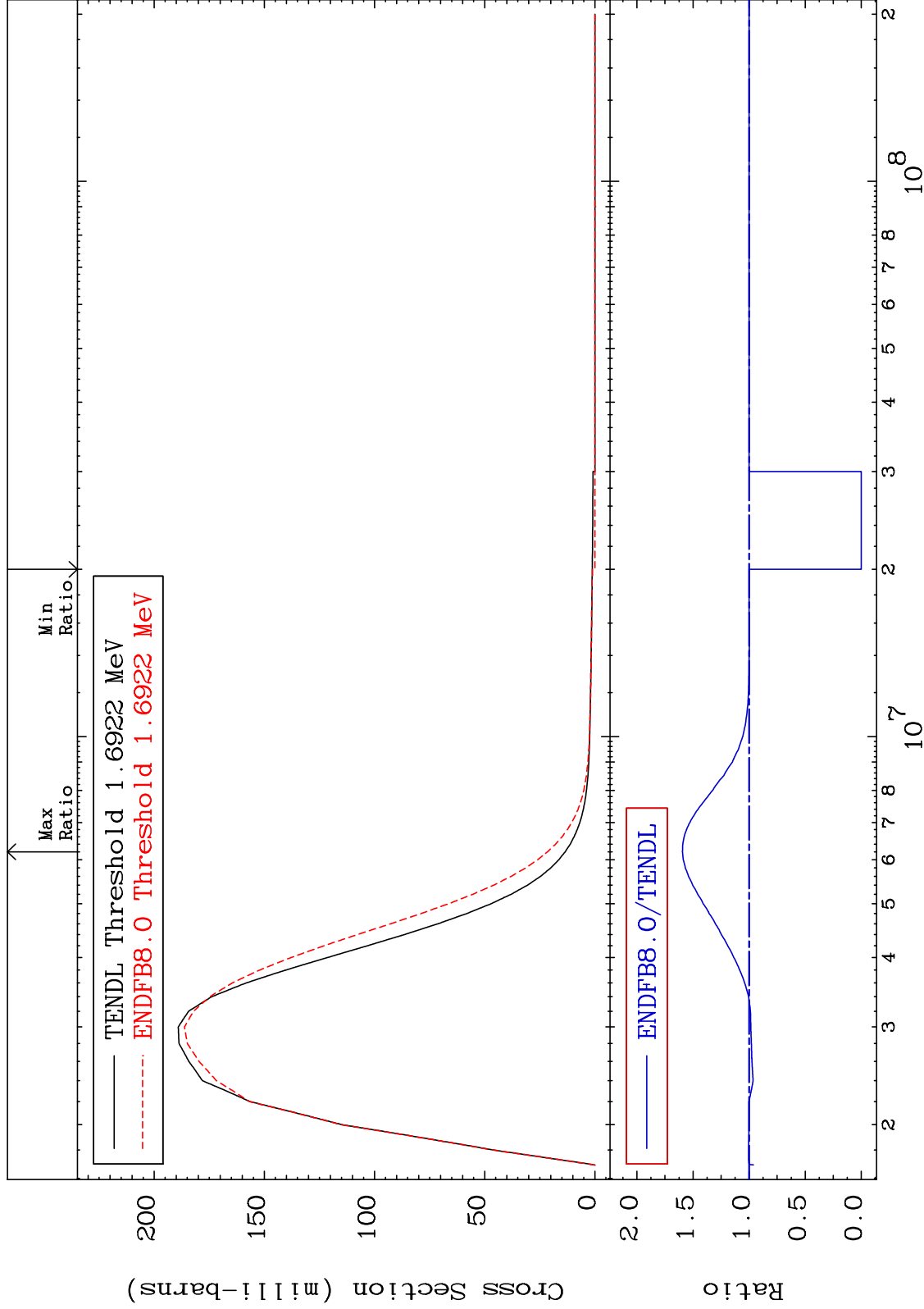
MAT 8231 MT= 54 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 47.44 %



MAT 8231

MT= 55 (n,n') Level  
Cross Section

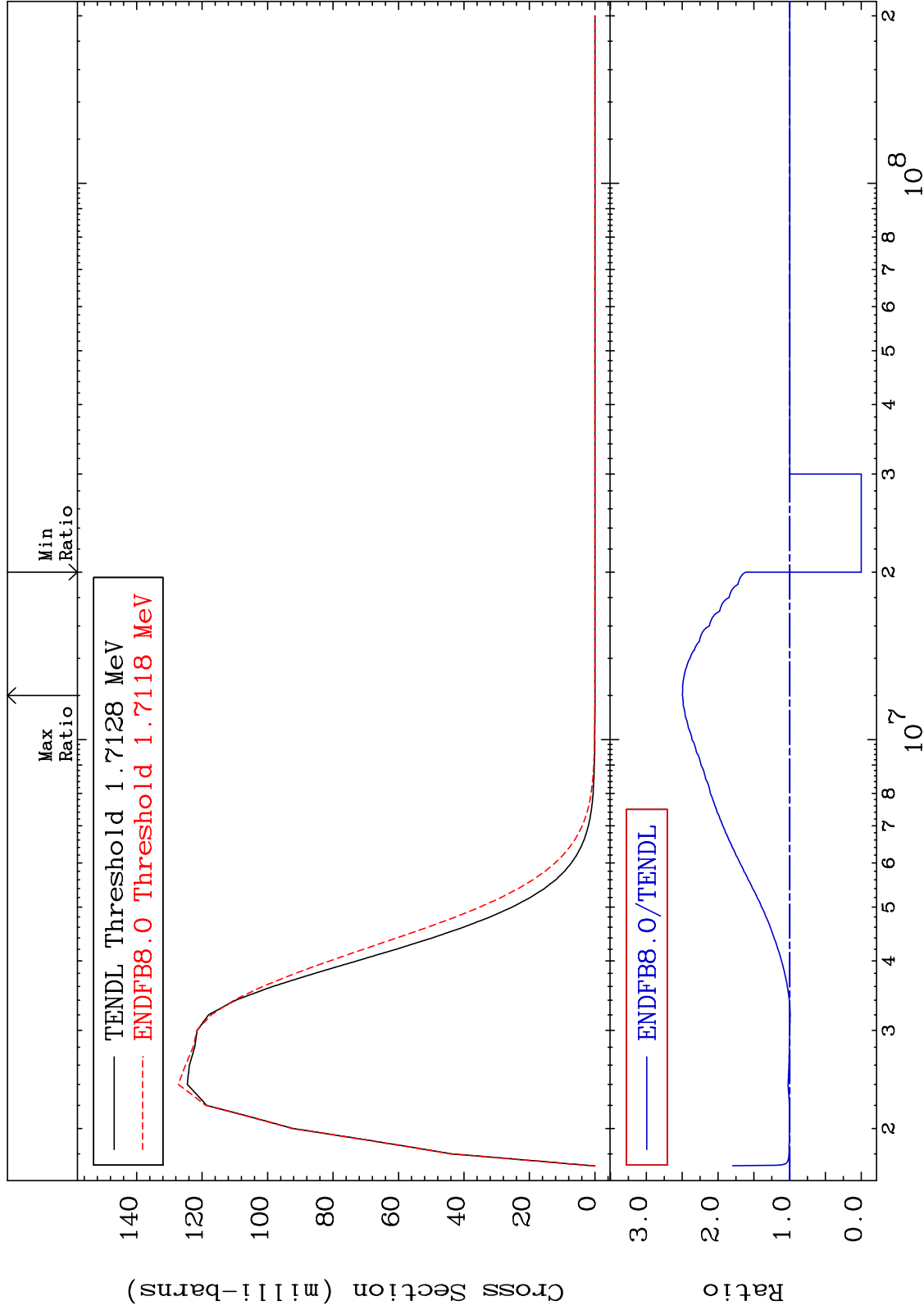
82-Pb-206  
-100.0 To 59.42 %



MAT 8231

MT= 56 (n,n') Level  
Cross Section

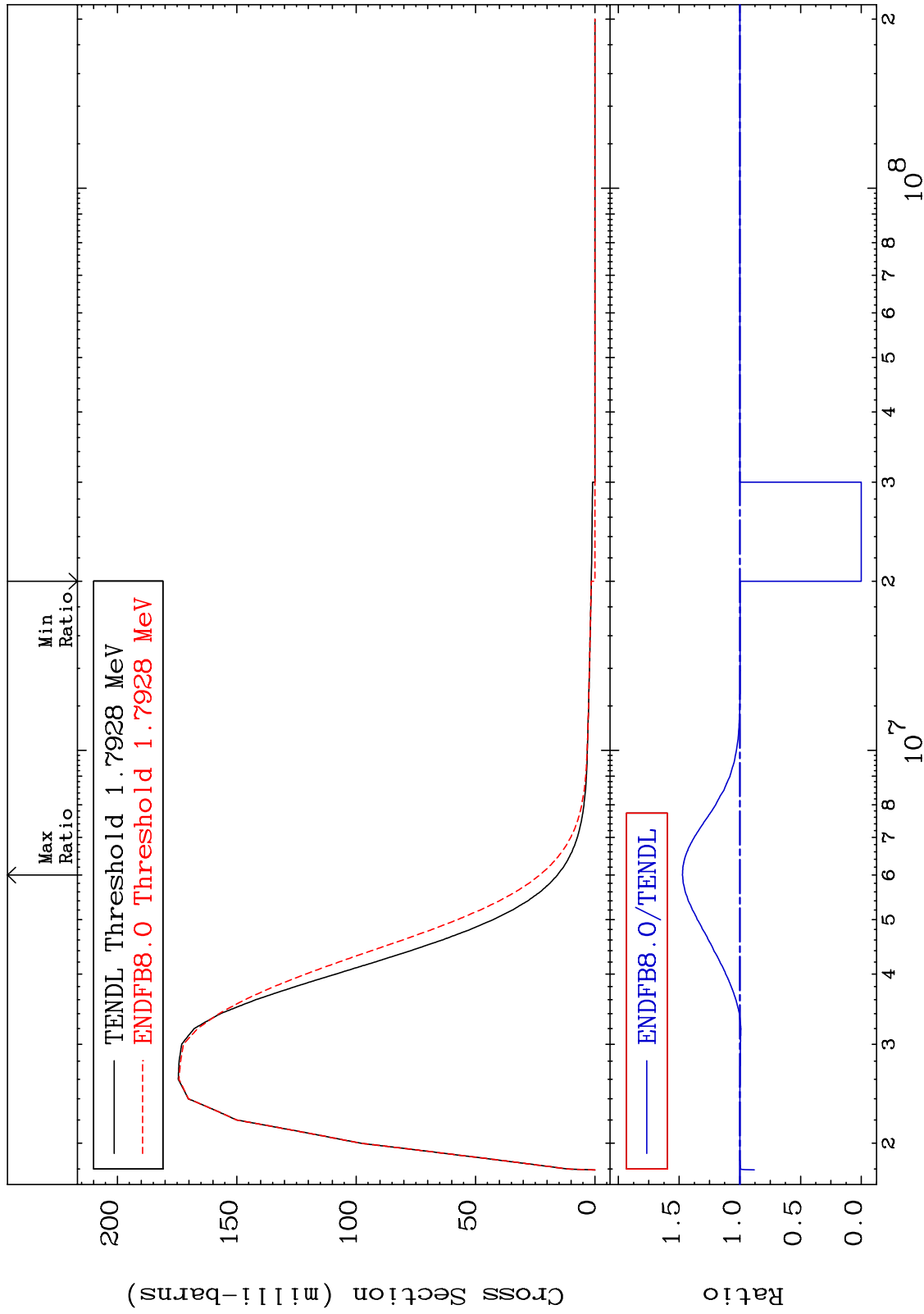
82-Pb-206  
-100.0 To 149.6 %



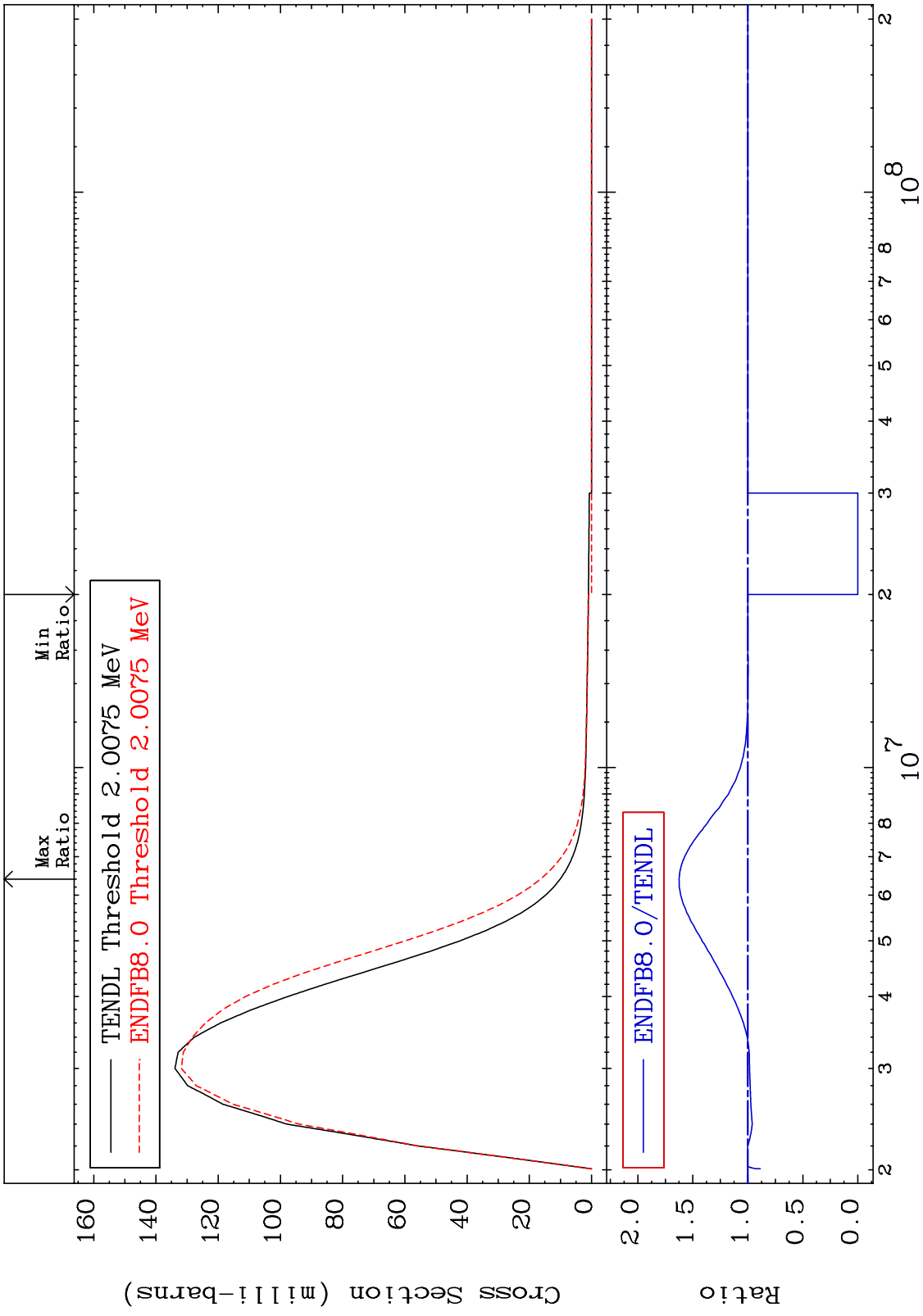
MAT 8231

MT= 57 (n,n') Level  
Cross Section

82-Pb-206  
-100.0 To 47.26 %



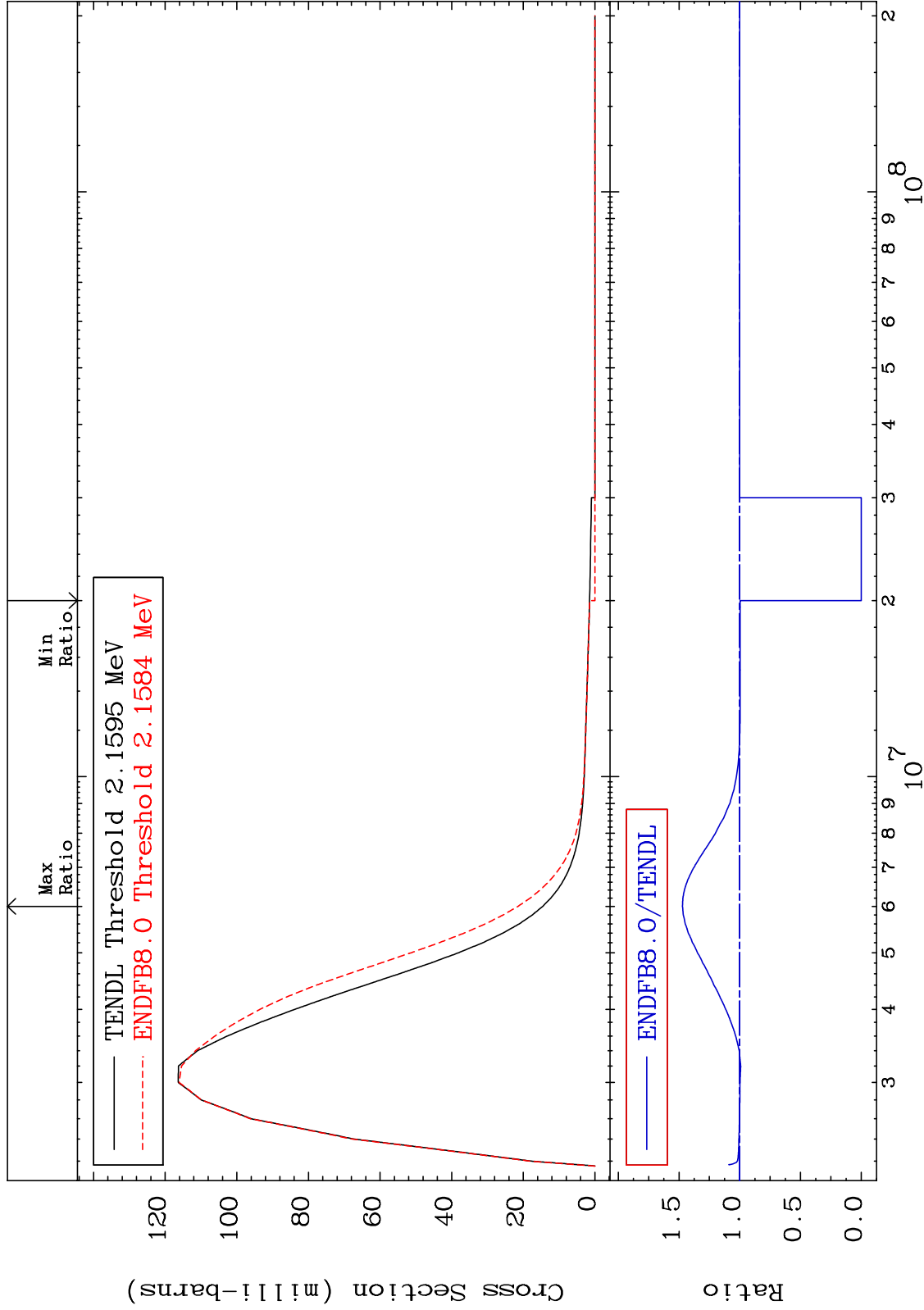
MAT 8231 MT= 58 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 62.53 %



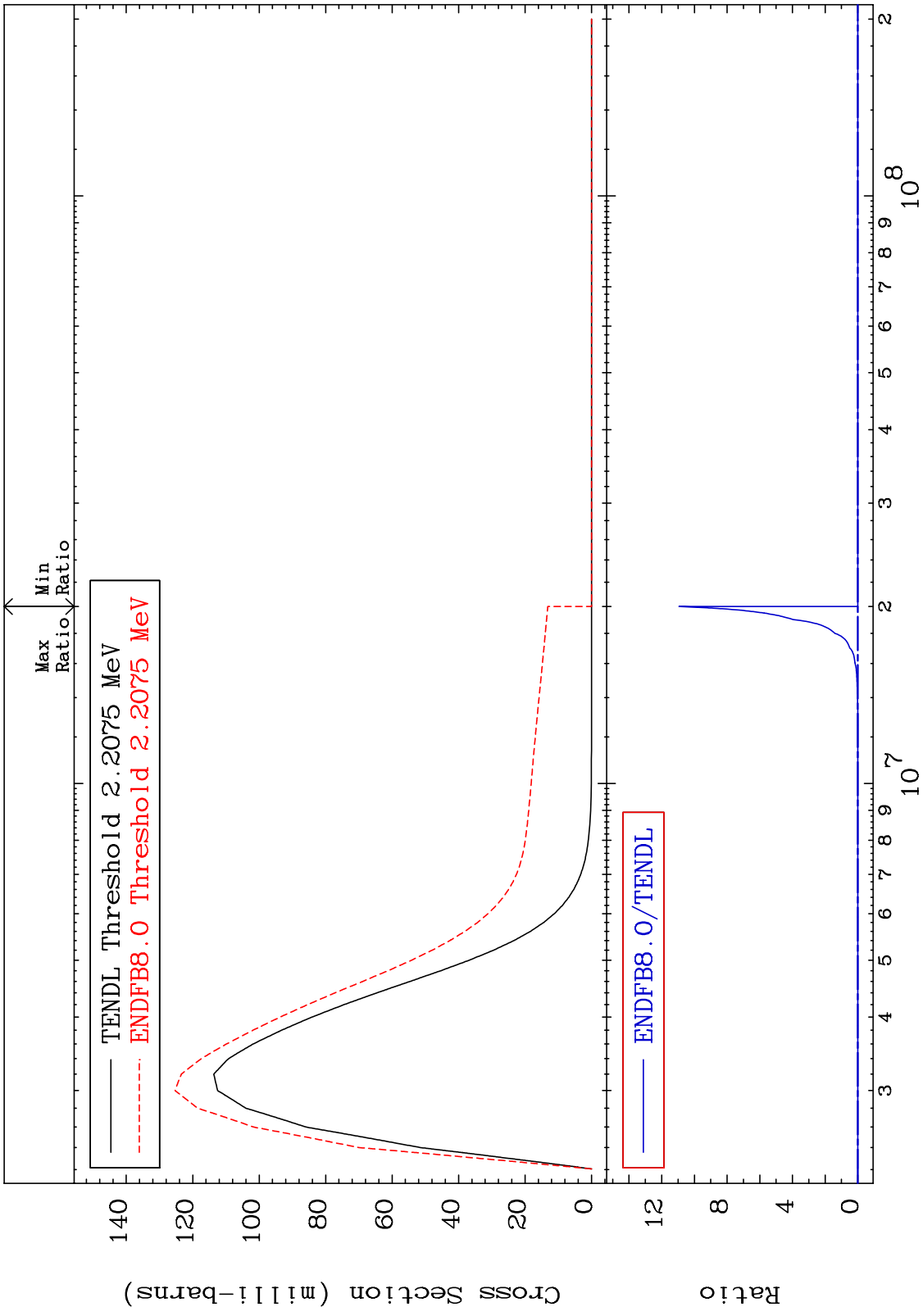
MAT 8231

MT= 59 (n,n') Level  
Cross Section

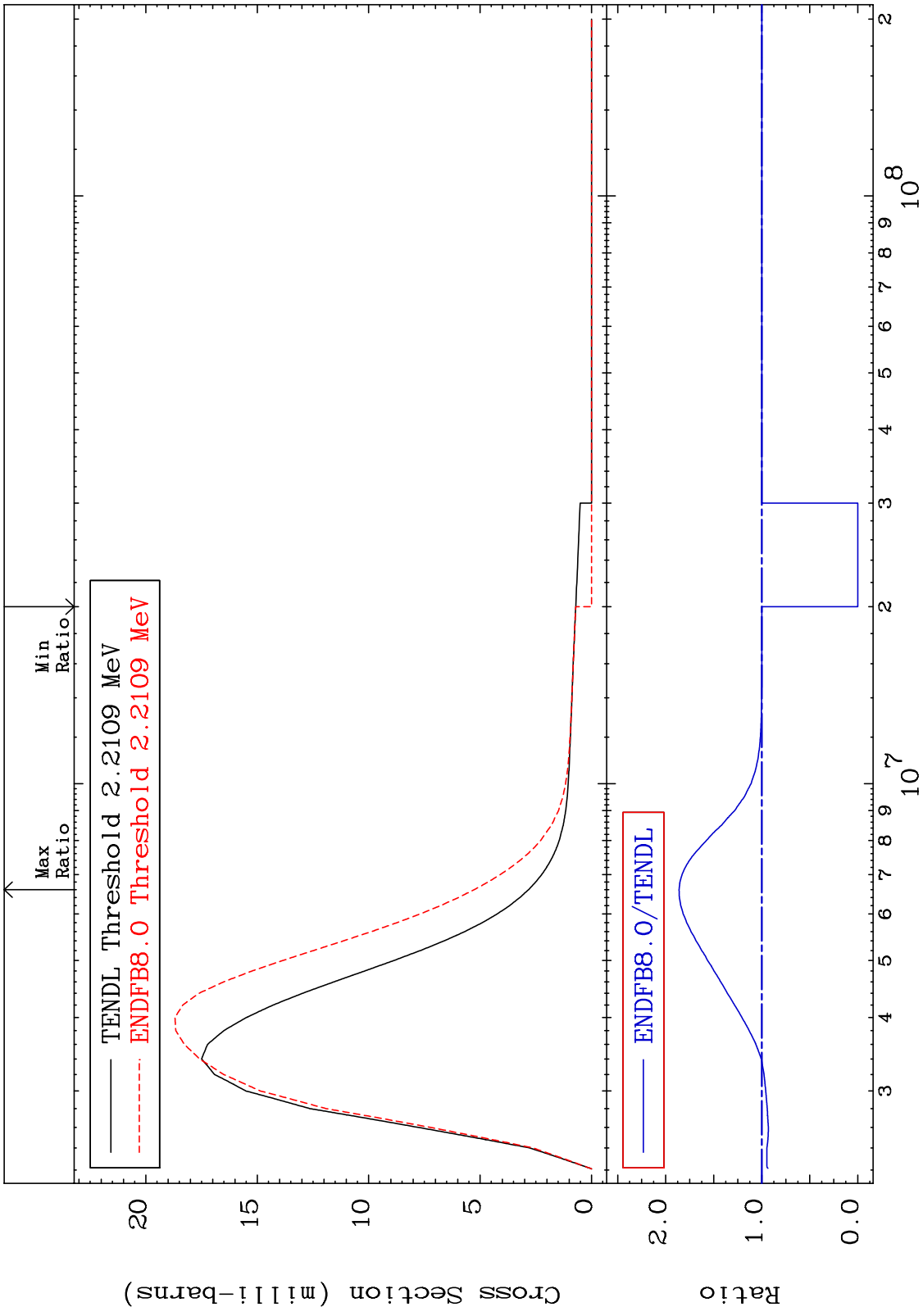
82-Pb-206  
-100.0 To 47.16 %



MAT 8231 MT= 60 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 9999. %

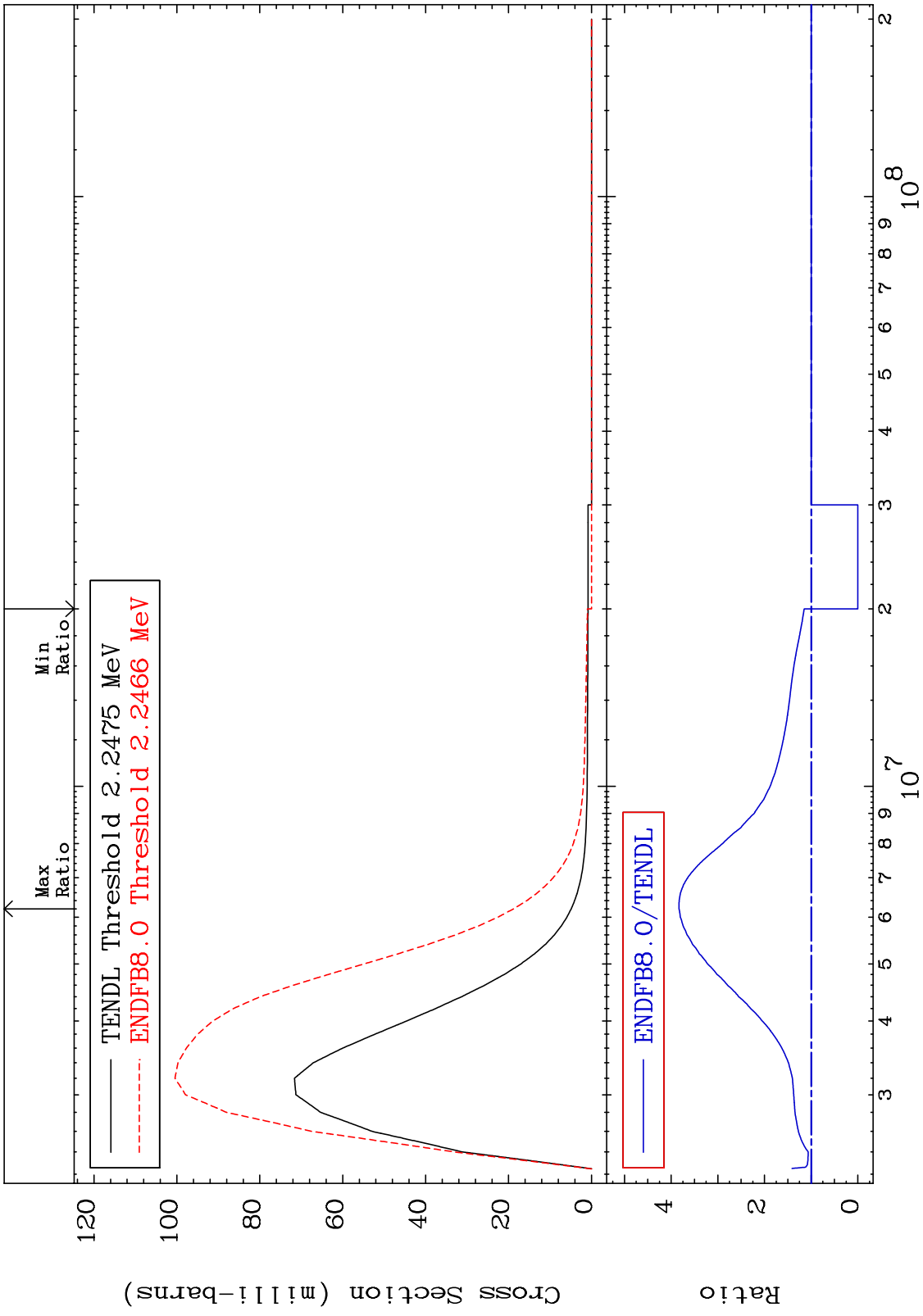


MAT 8231 MT= 61 (n,n') Level Cross Section -100.0 To 86.11 % 82-Pb-206

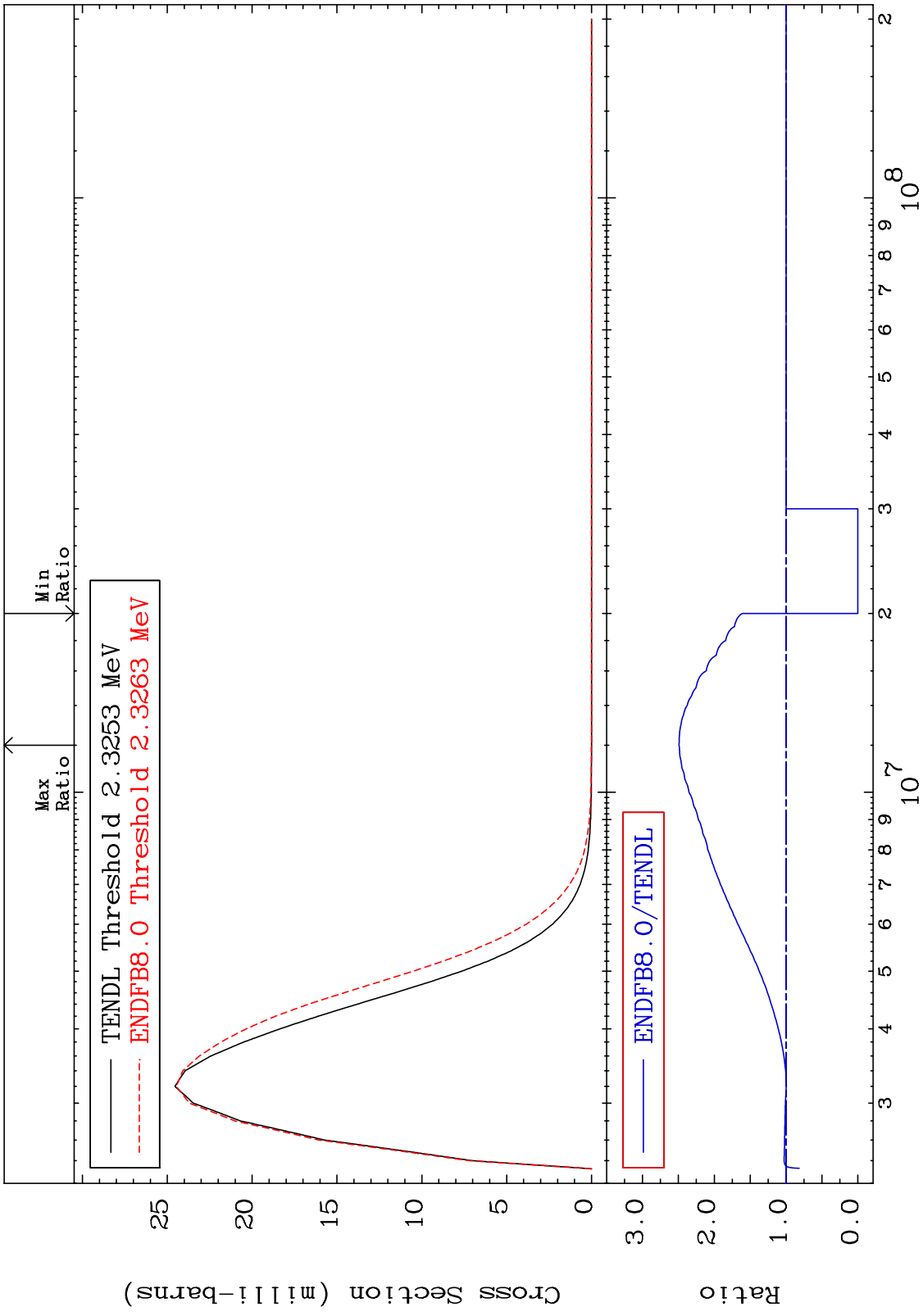




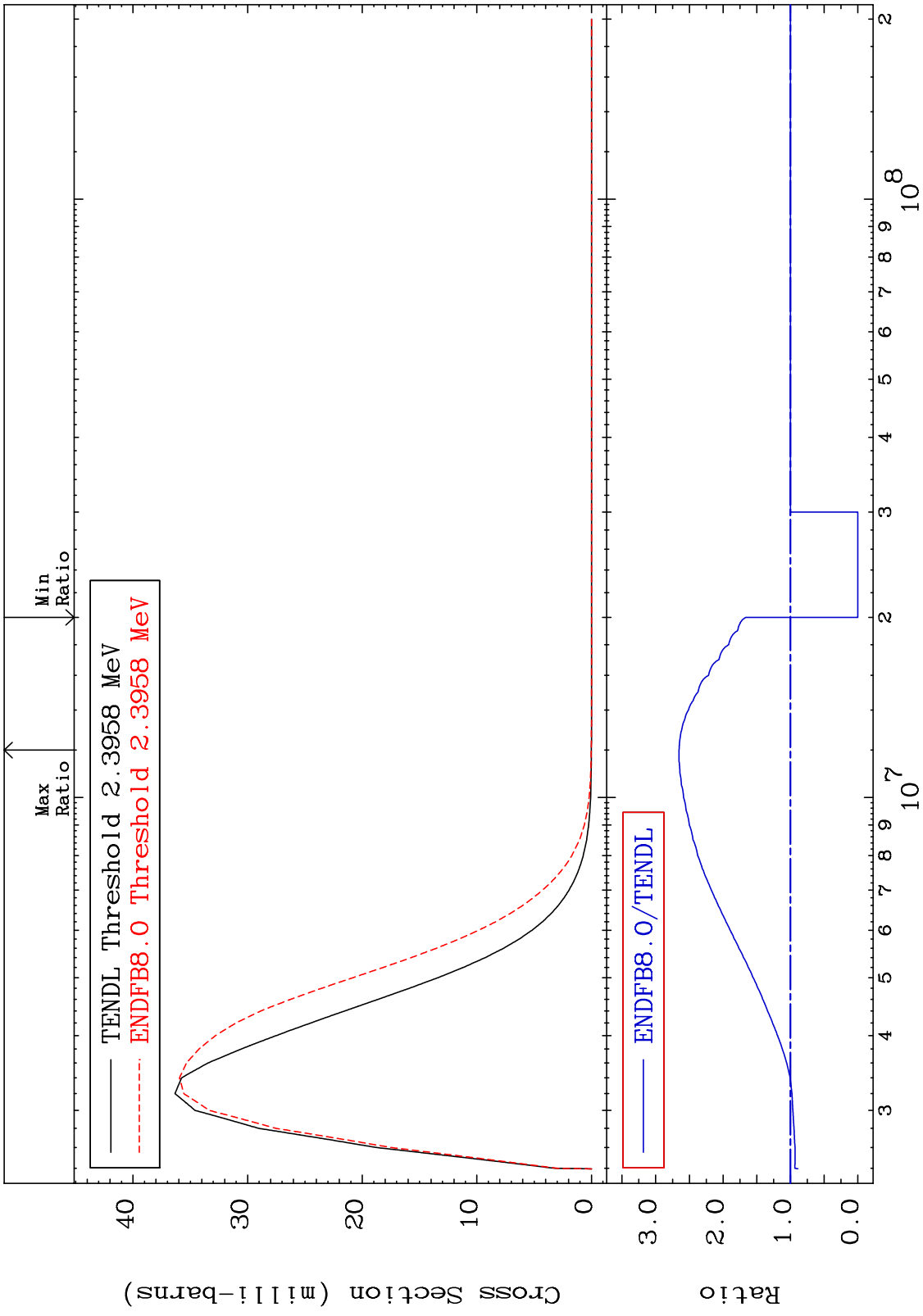
MAT 8231 MT= 62 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 283.1 %



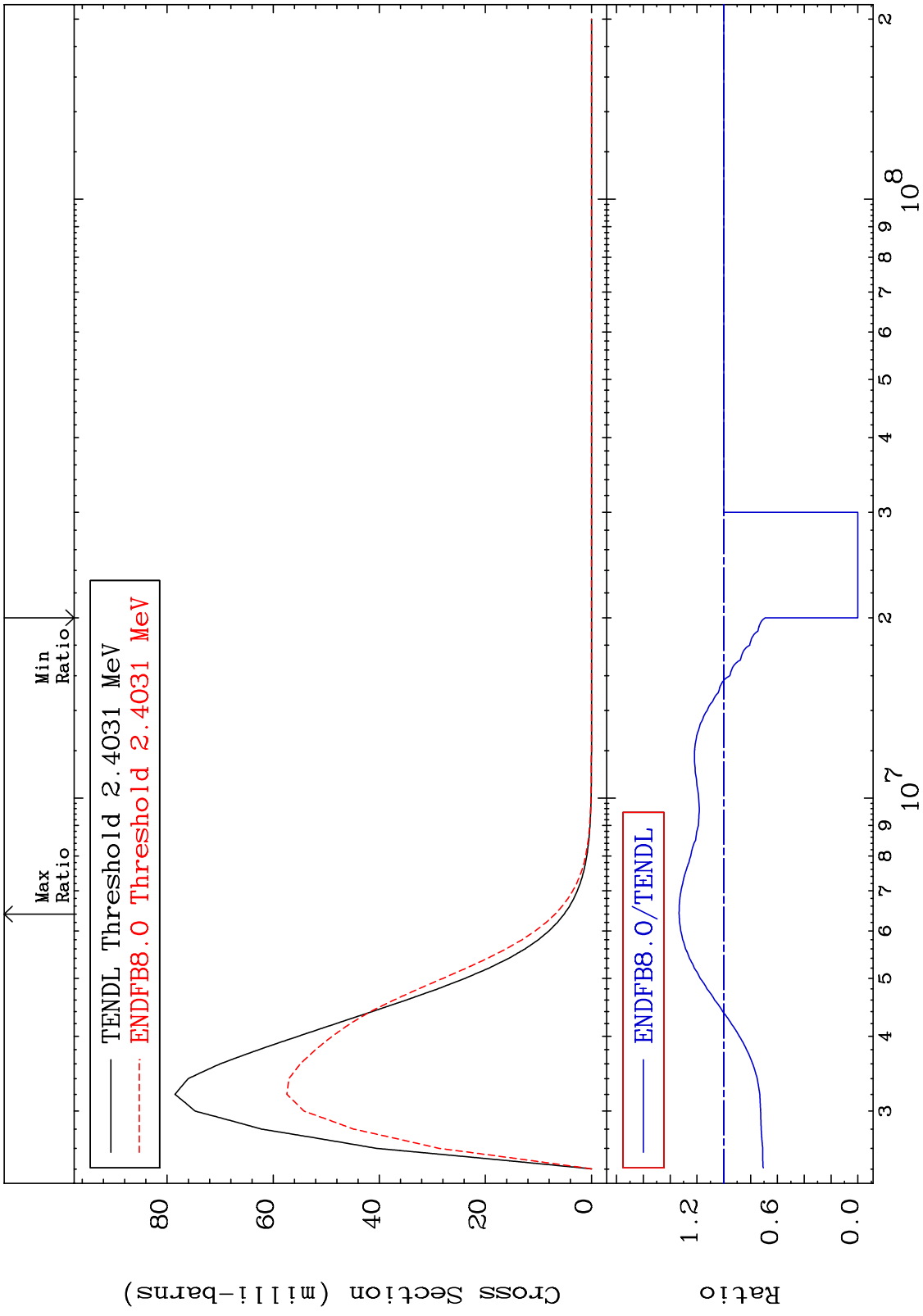
MAT 8231 MT= 63 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 149.1 %



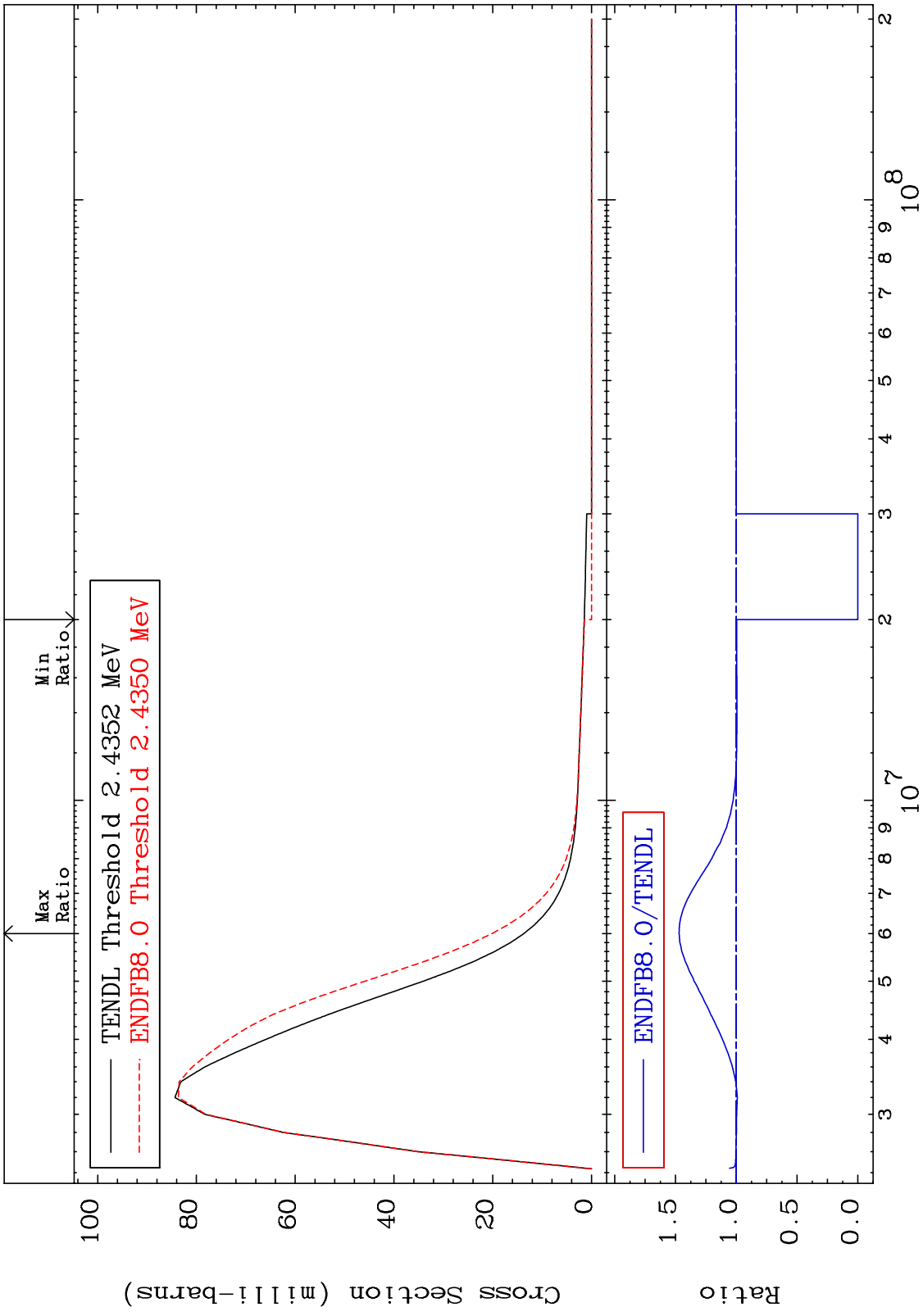
MAT 8231 MT= 64 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 165.3 %



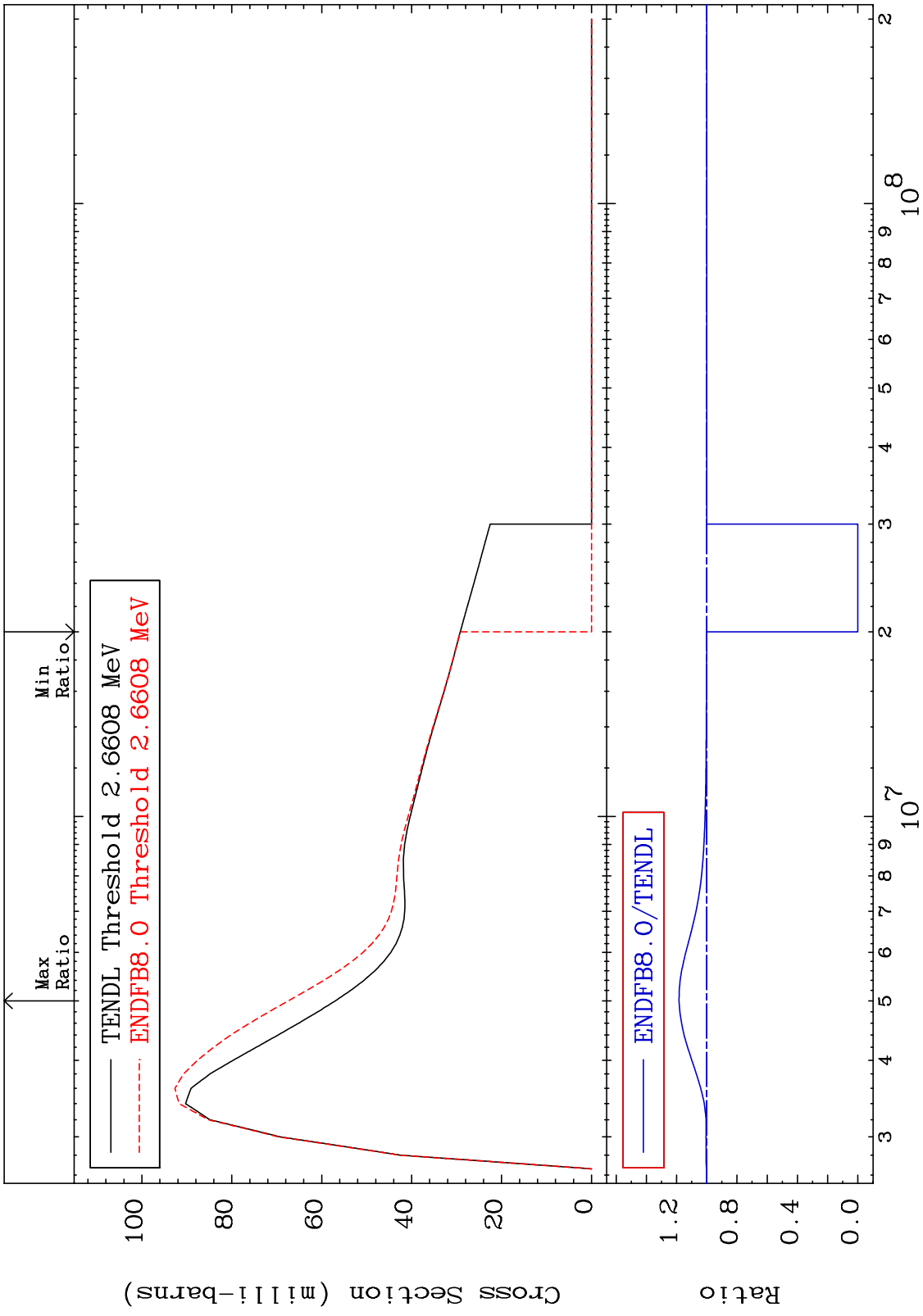
MAT 8231 MT= 65 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 33.36 %



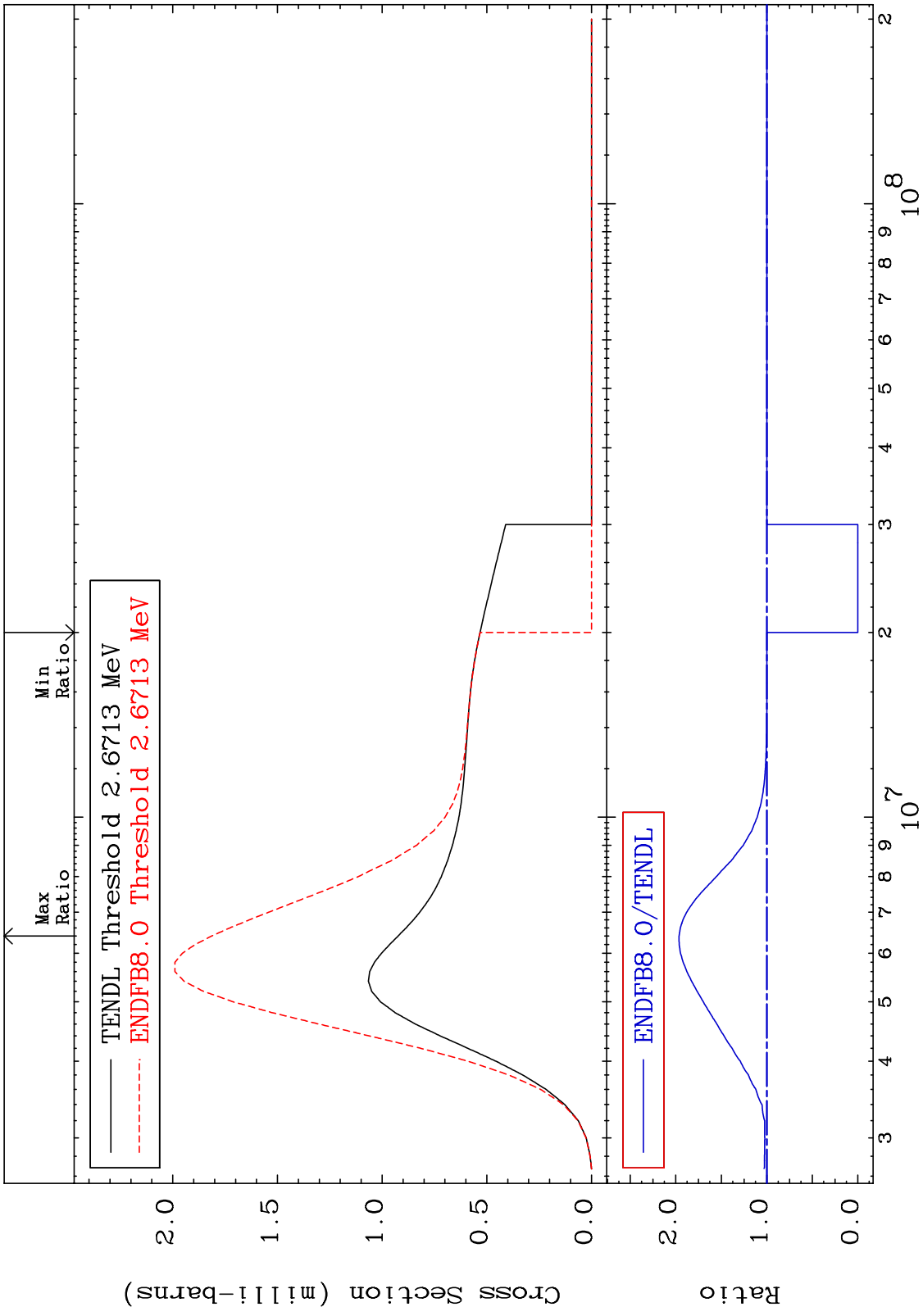
MAT 8231 MT= 66 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 47.10 %



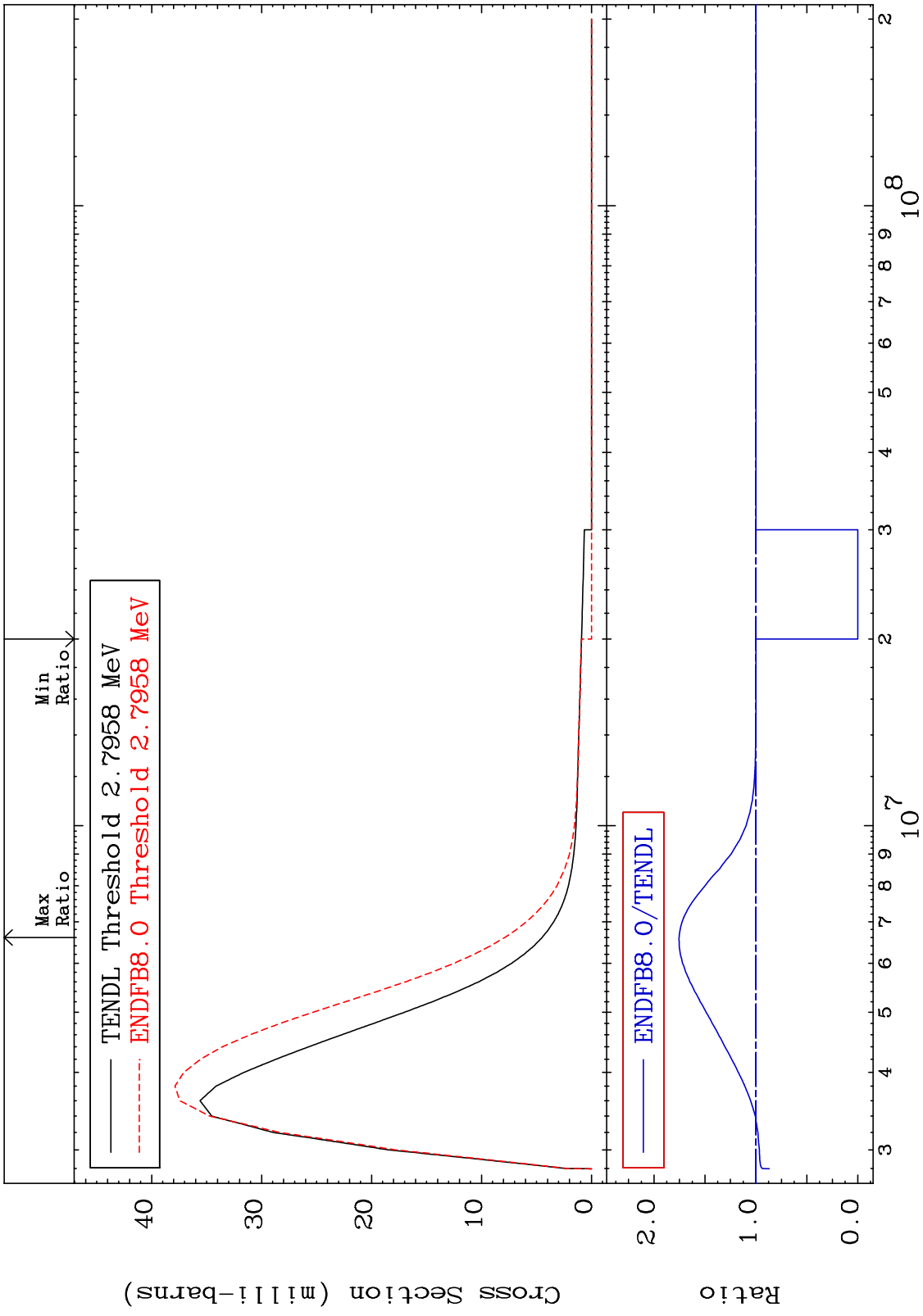
MAT 8231 MT= 67 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 18.36 %



MAT 8231 MT= 68 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 96.40 %

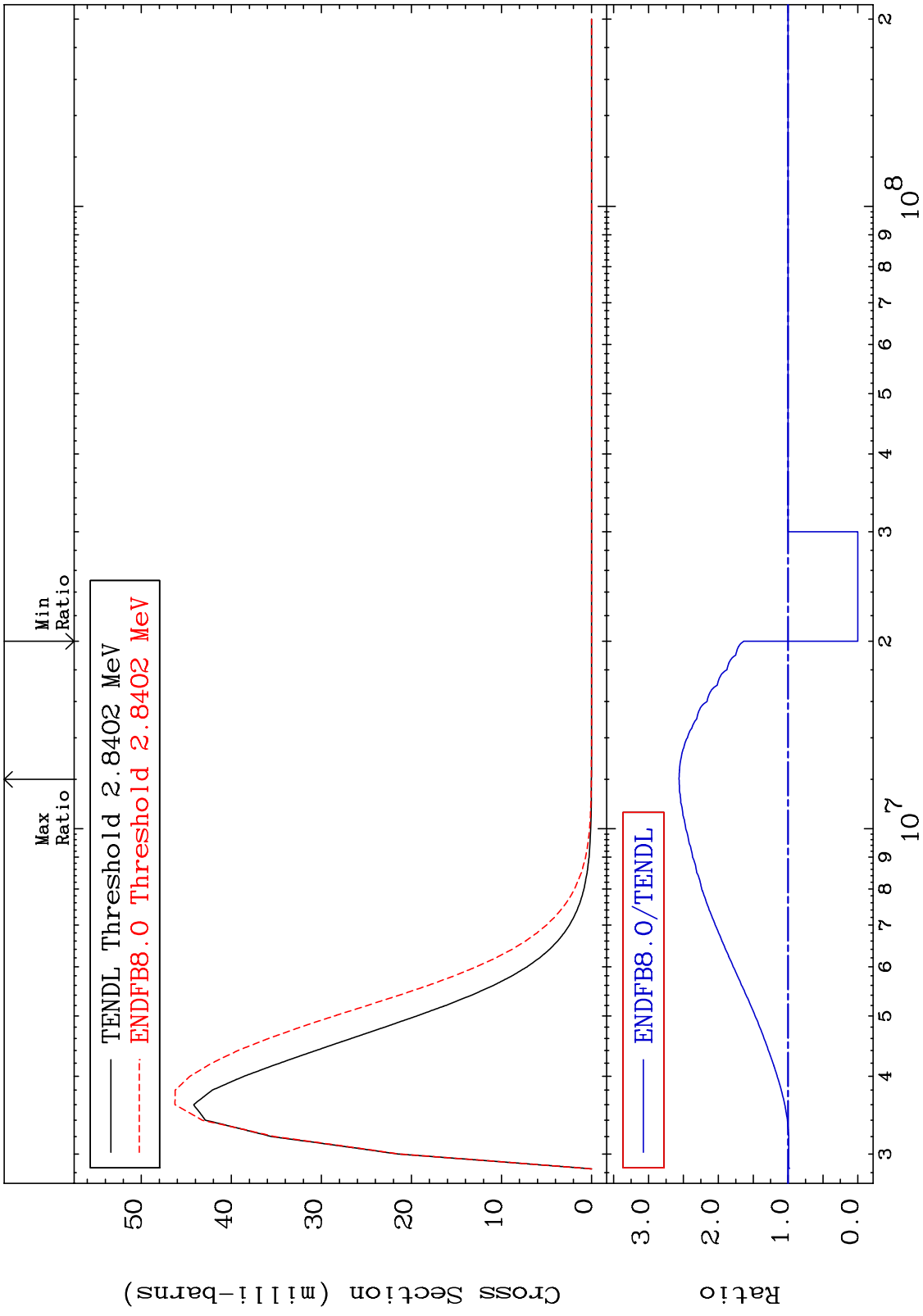


MAT 8231 MT= 69 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 75.45 %

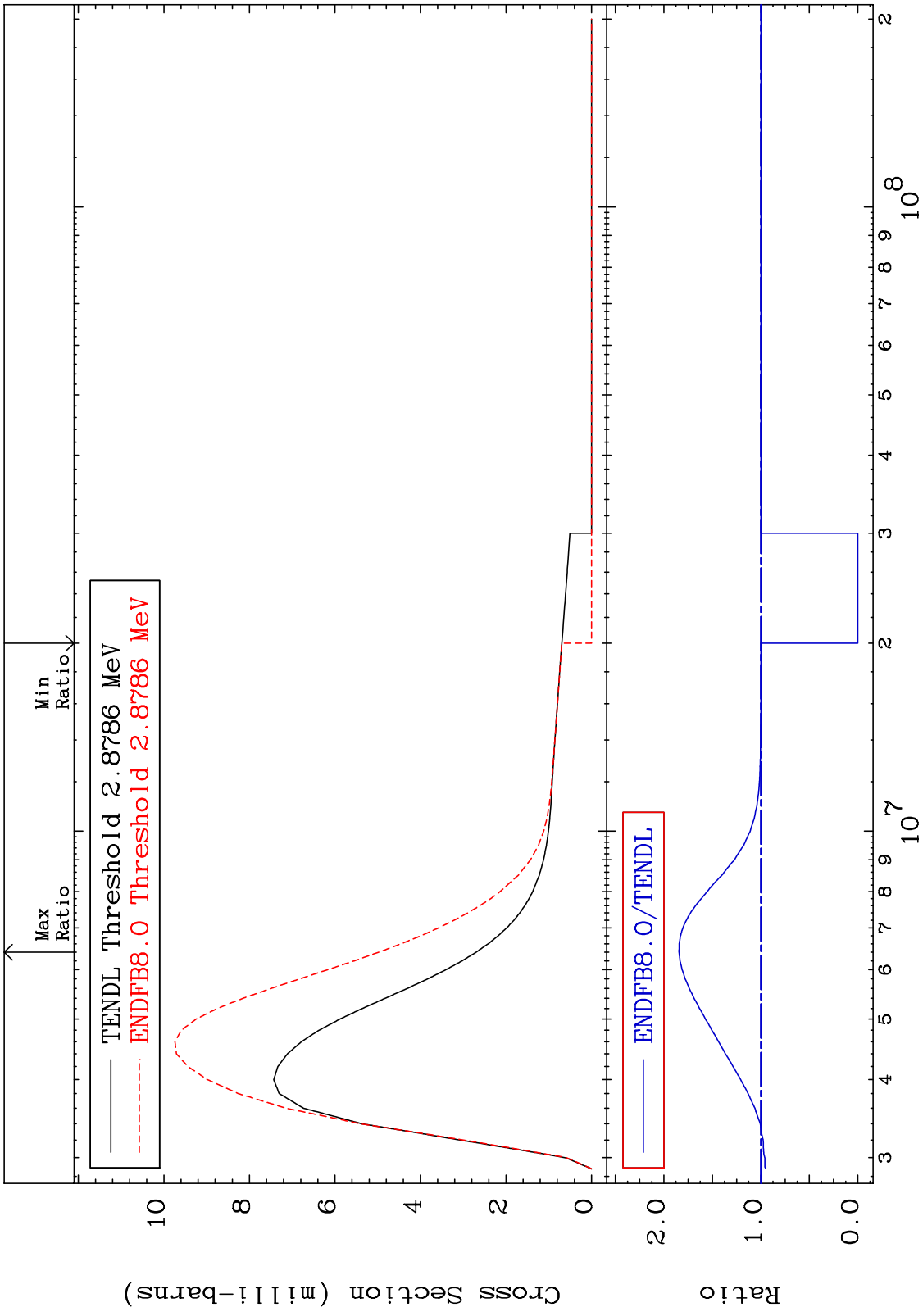




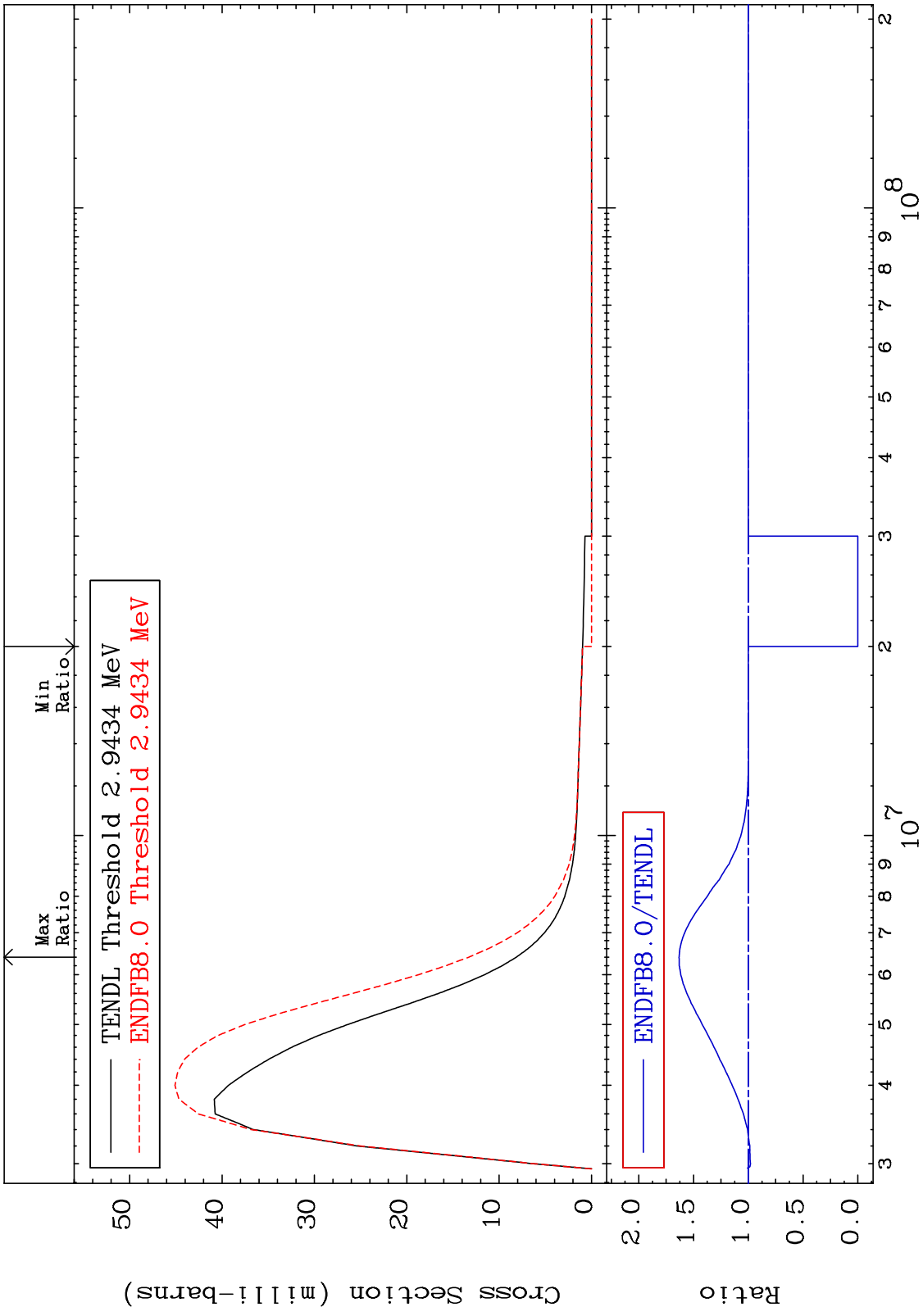
MAT 8231 MT= 70 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 156.3 %



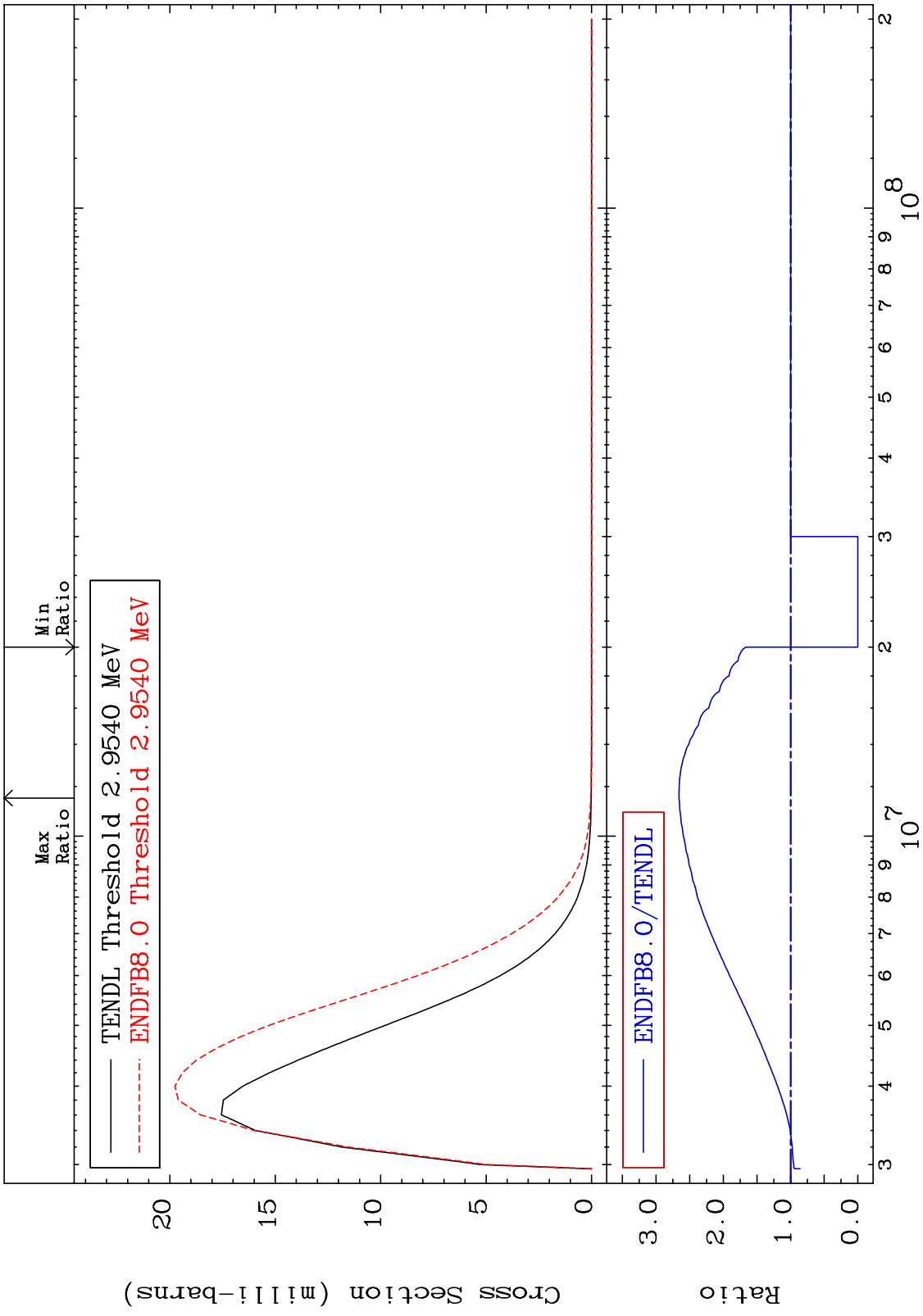
MAT 8231 MT= 71 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 84.39 %



MAT 8231 MT= 72 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 63.24 %



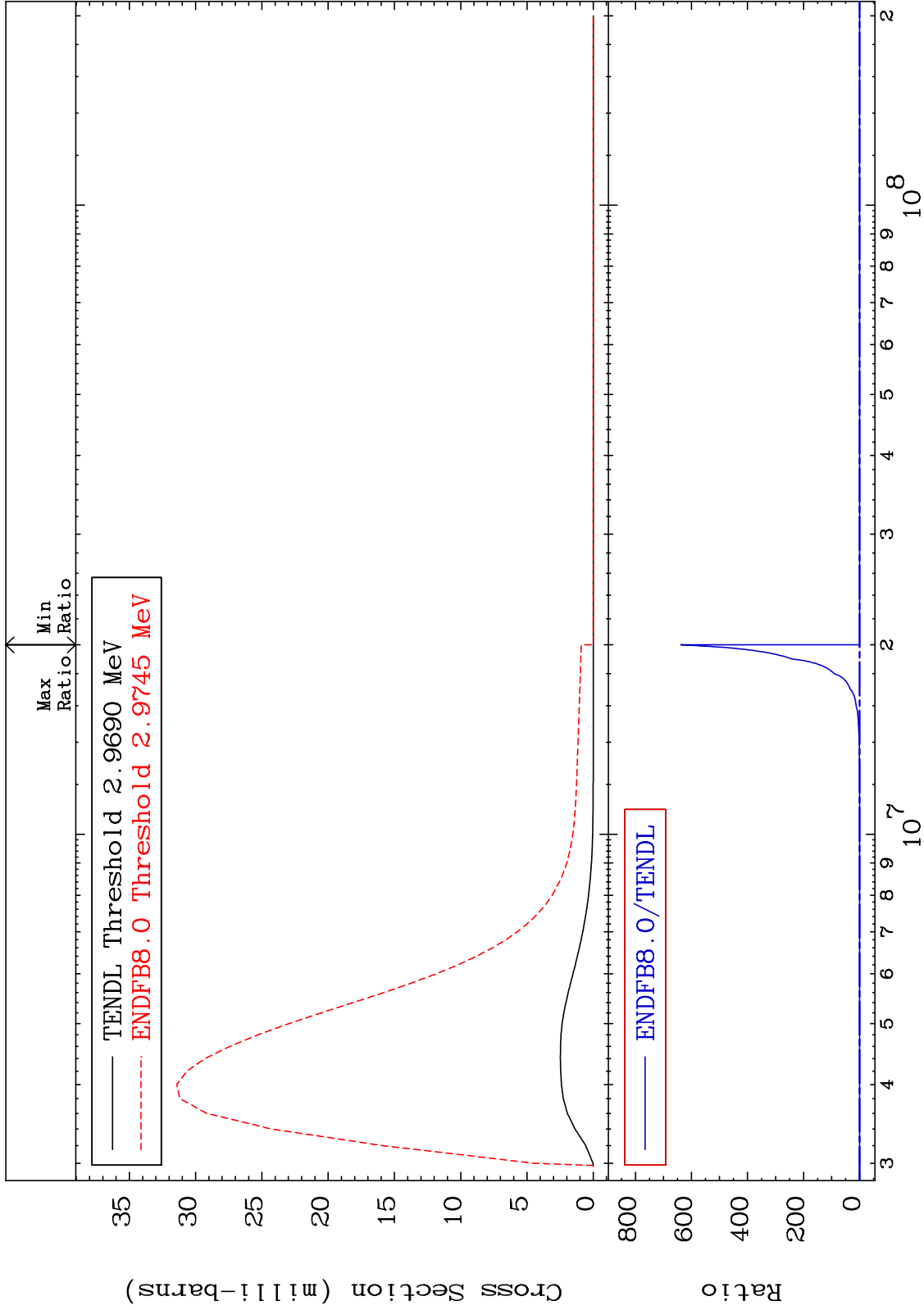
MAT 8231 MT= 73 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 165.8 %



MAT 8231

MT= 74 (n,n') Level  
Cross Section

82-Pb-206  
-100.0 To 9999. %

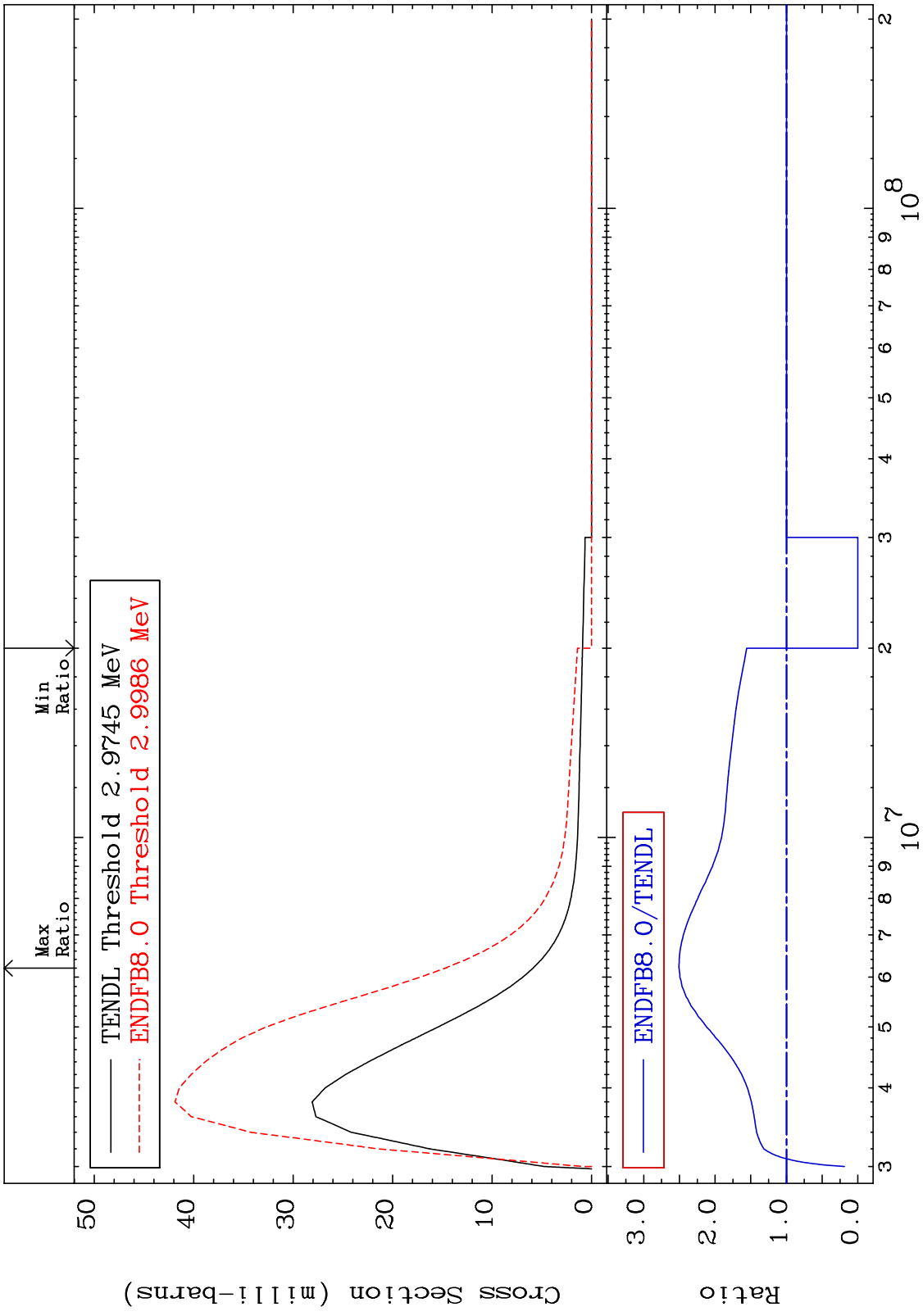


36

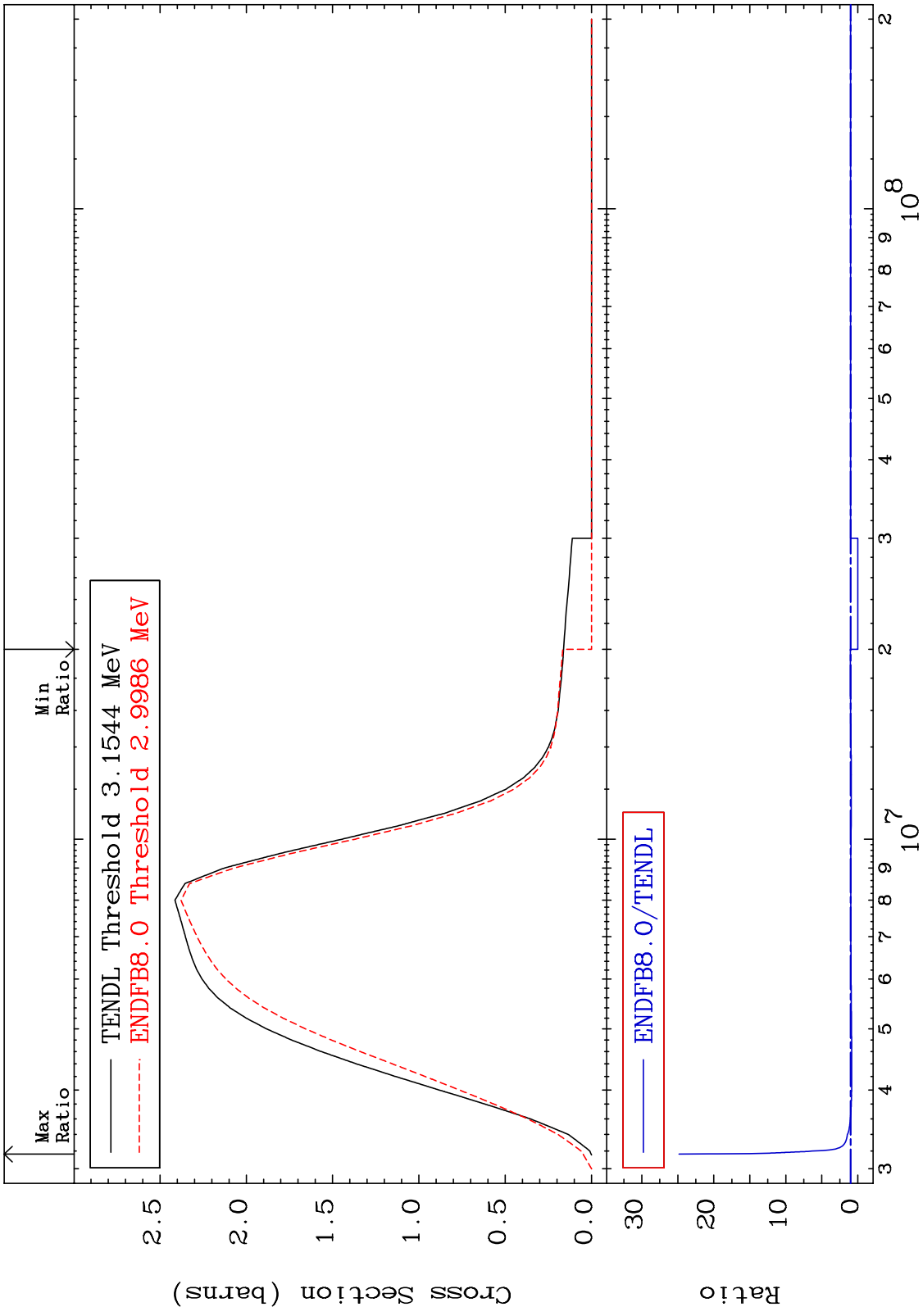
Incident Energy (eV)

82-Pb-206

MAT 8231 MT= 75 (n,n') Level Cross Section 82-Pb-206  
 -100.0 To 150.5 %



MAT 8231 (n, n') Continuum Cross Section 82-Pb-206 -100.0 To 2383. %



38 Incident Energy (eV) 82-Pb-206

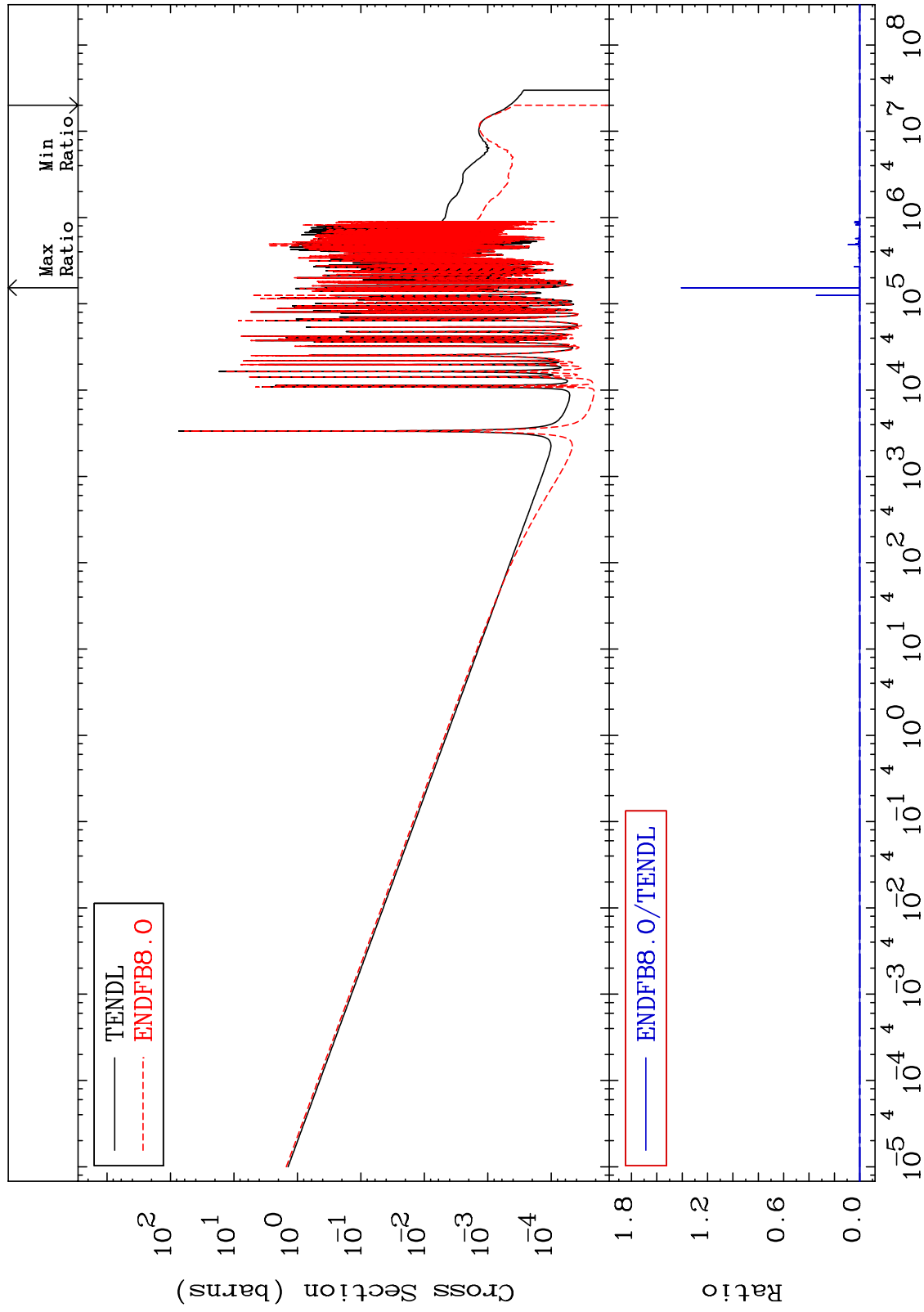
MAT 8231

(n,  $\gamma$ )

82-Pb-206

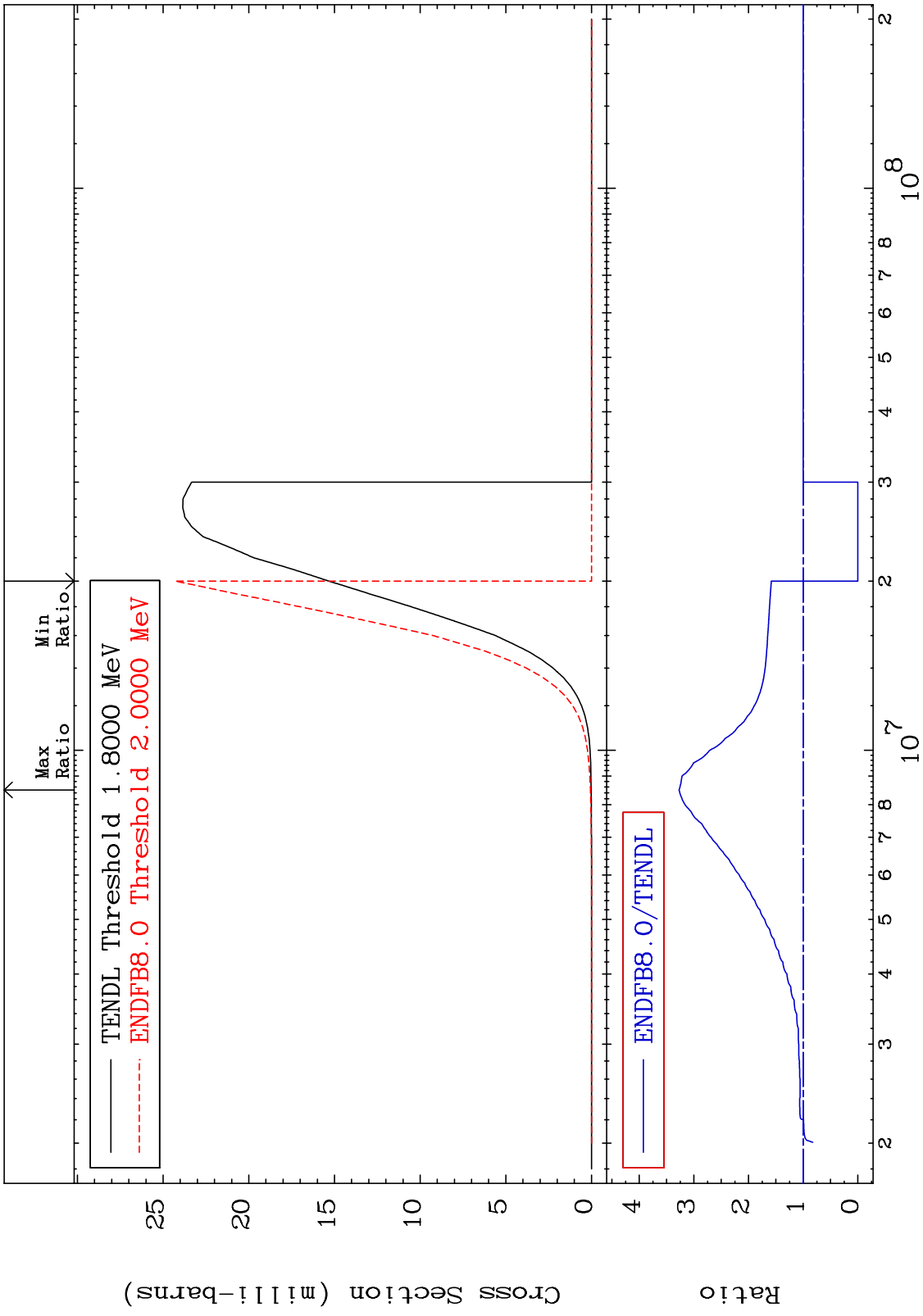
Cross Section

-100.0 To 9999. %





MAT 8231 (n,p) Cross Section 82-Pb-206 -100.0 To 227.2 %



40 82-Pb-206

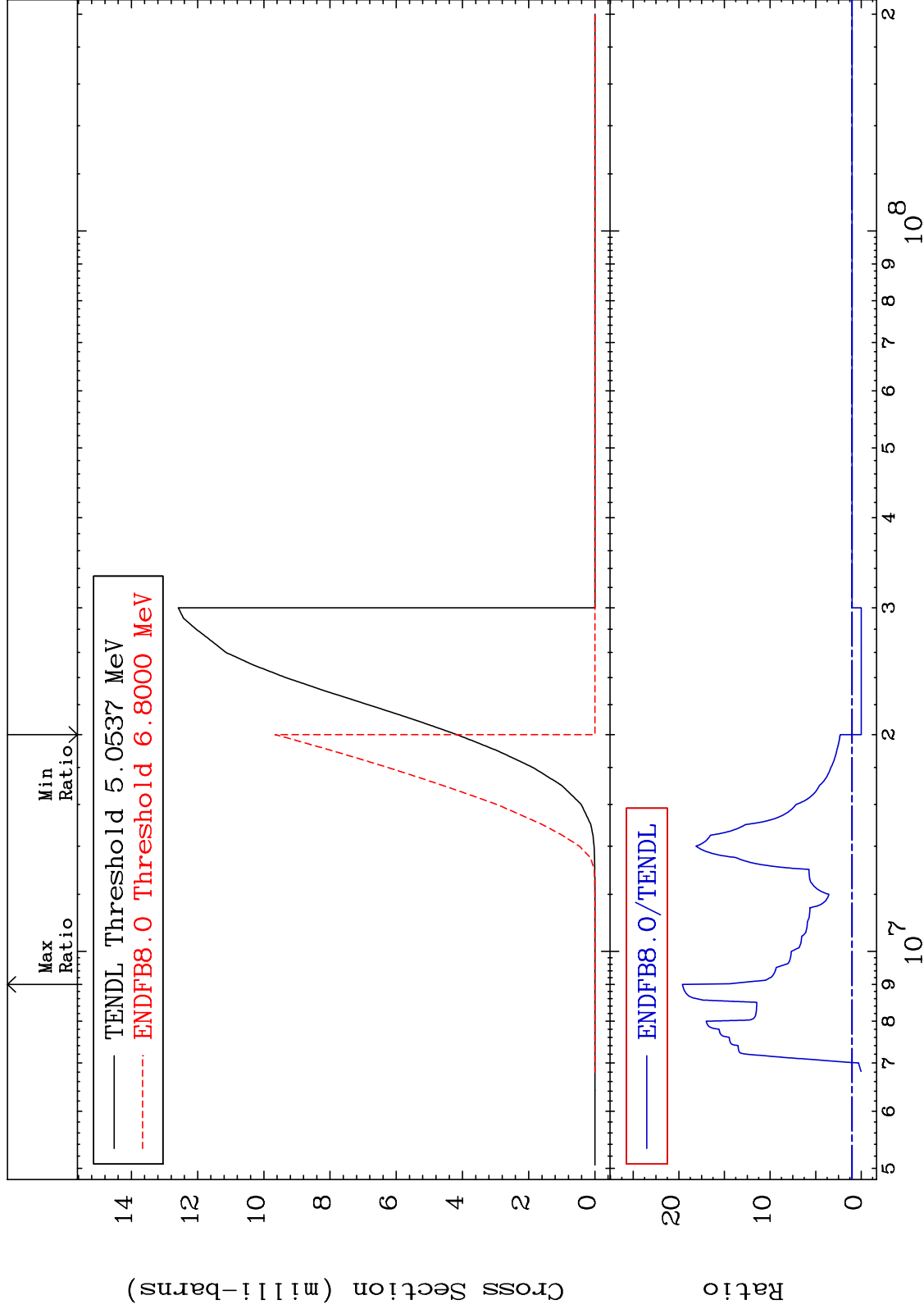
MAT 8231

(n,d)

82-Pb-206

Cross Section

-100.0 To 1860. %



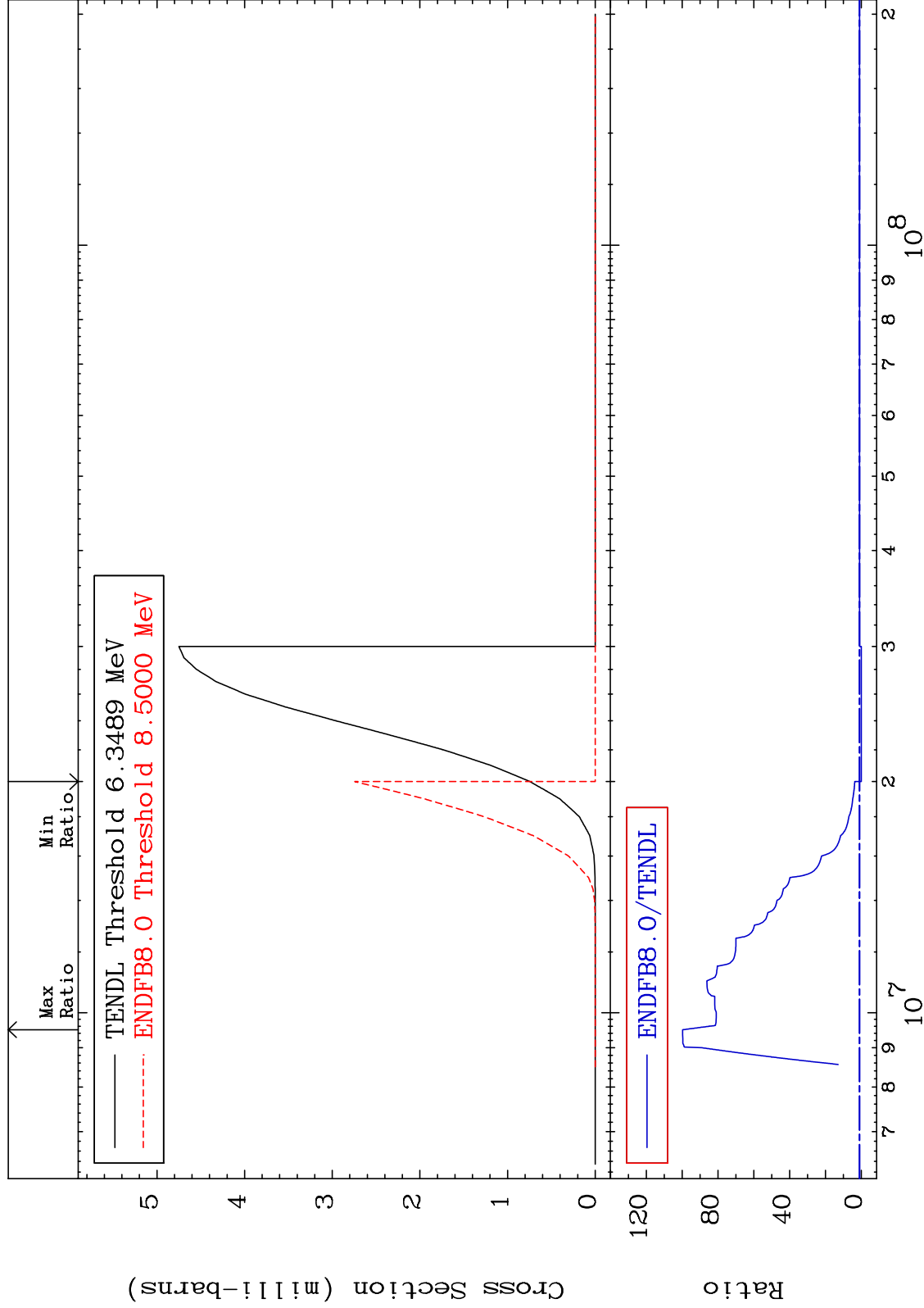
MAT 8231

(n,t)

82-Pb-206

Cross Section

-100.0 To 9869. %



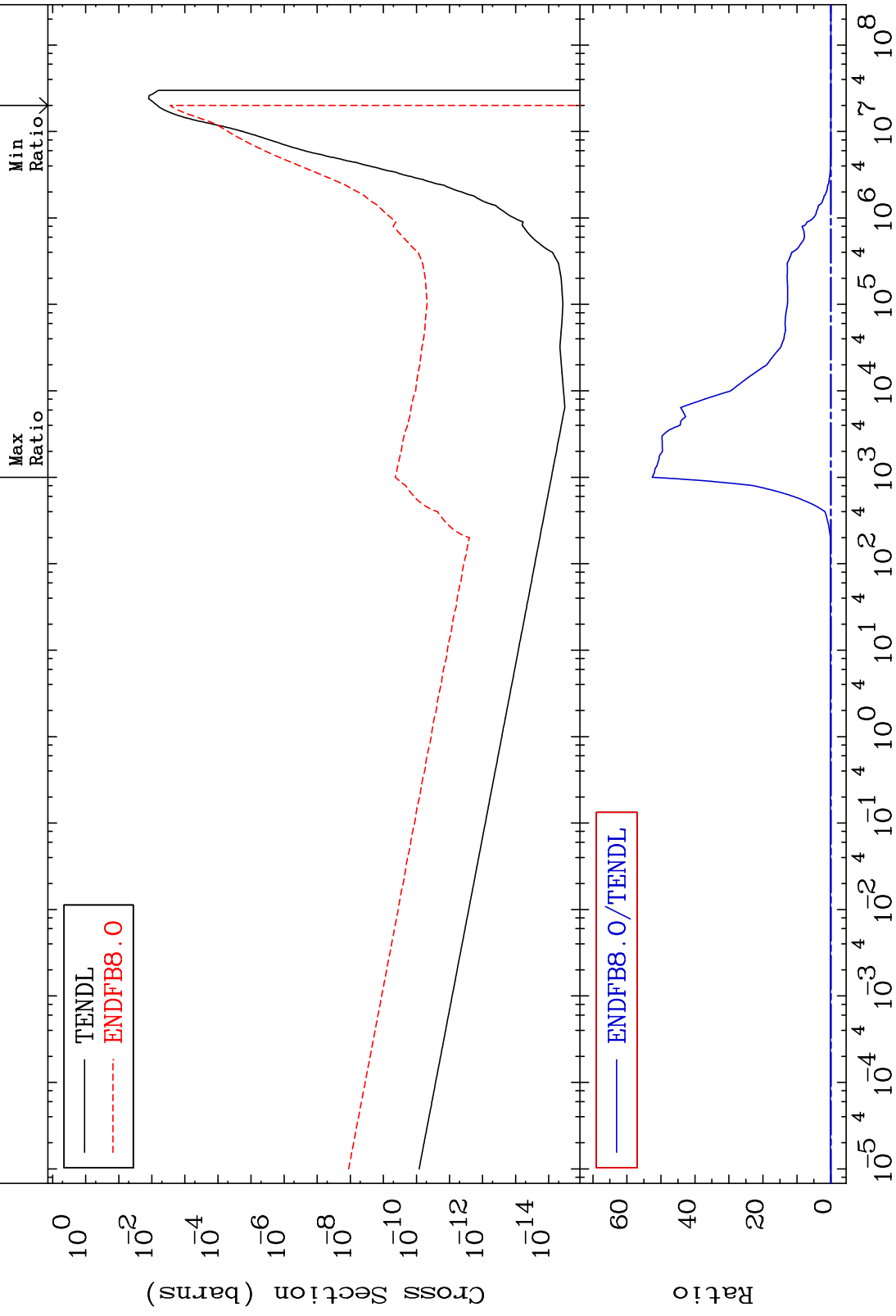
MAT 8231

(n,  $\alpha$ )

82-Pb-206

Cross Section

-100.0 To 9999. %



43

Incident Energy (eV)

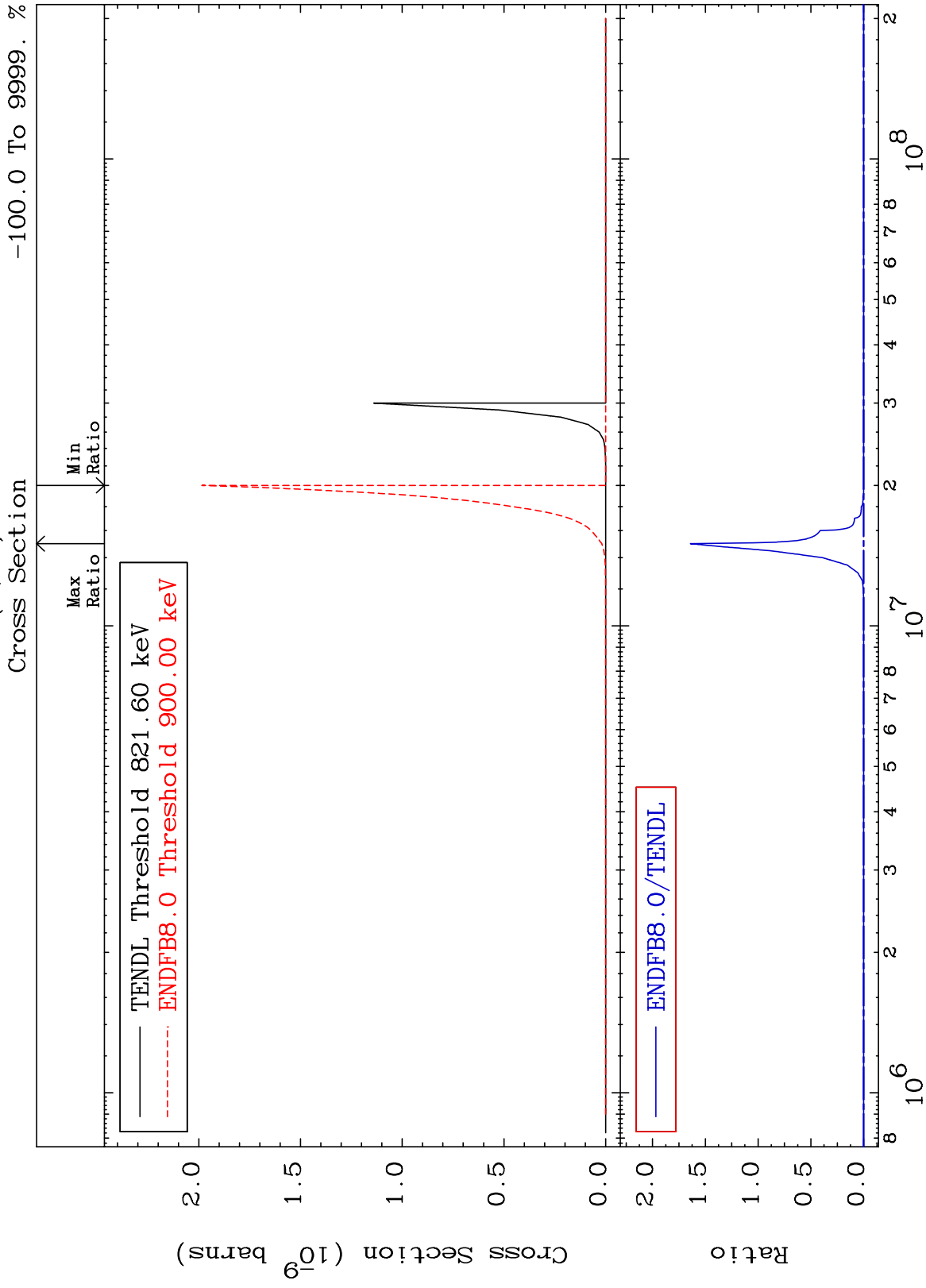
82-Pb-206

MAT 8231

(n,2α)

82-Pb-206

-100.0 To 9999. %



44

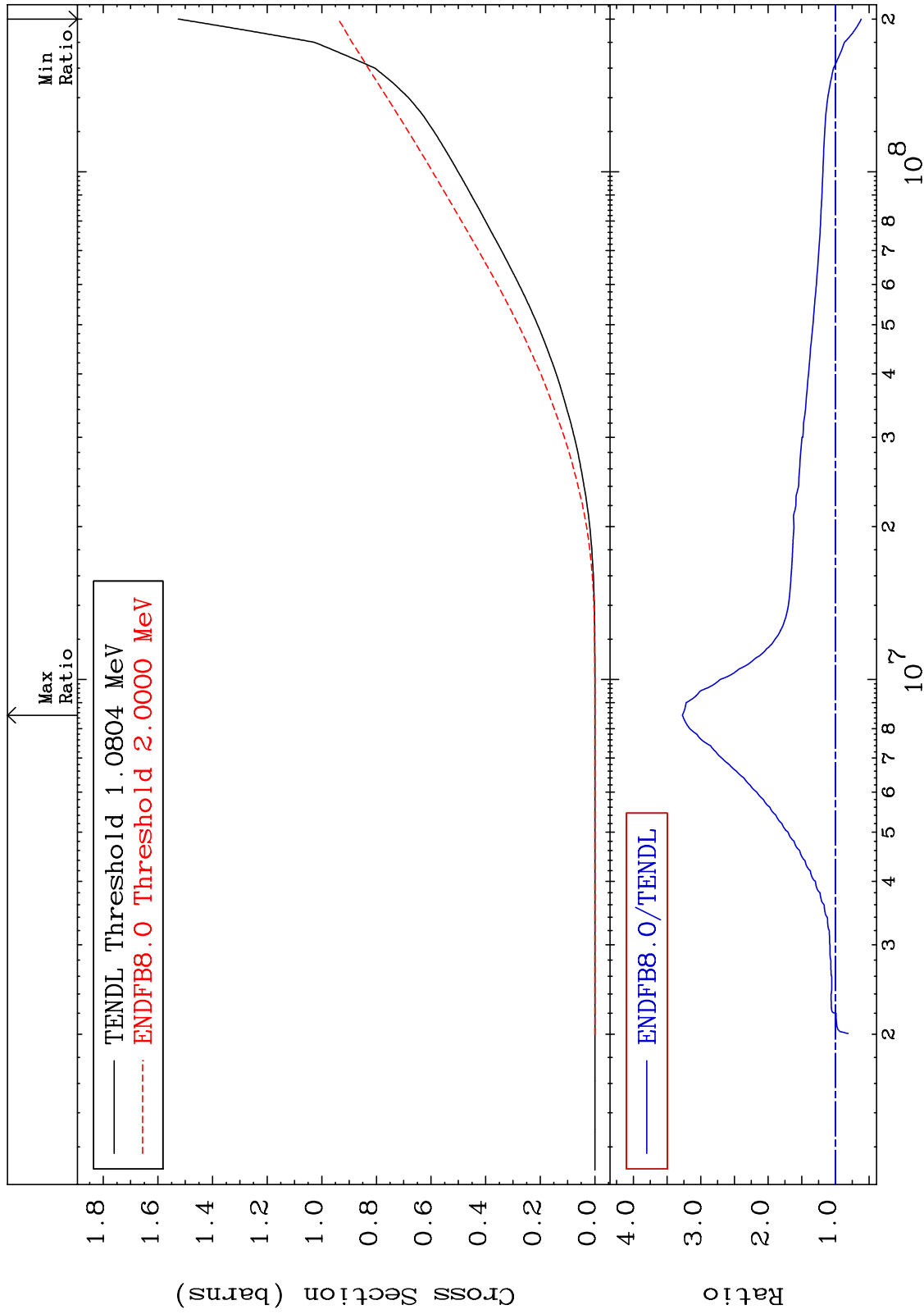
Incident Energy (eV)

82-Pb-206

MAT 8231

Hydrogen Production  
Cross Section

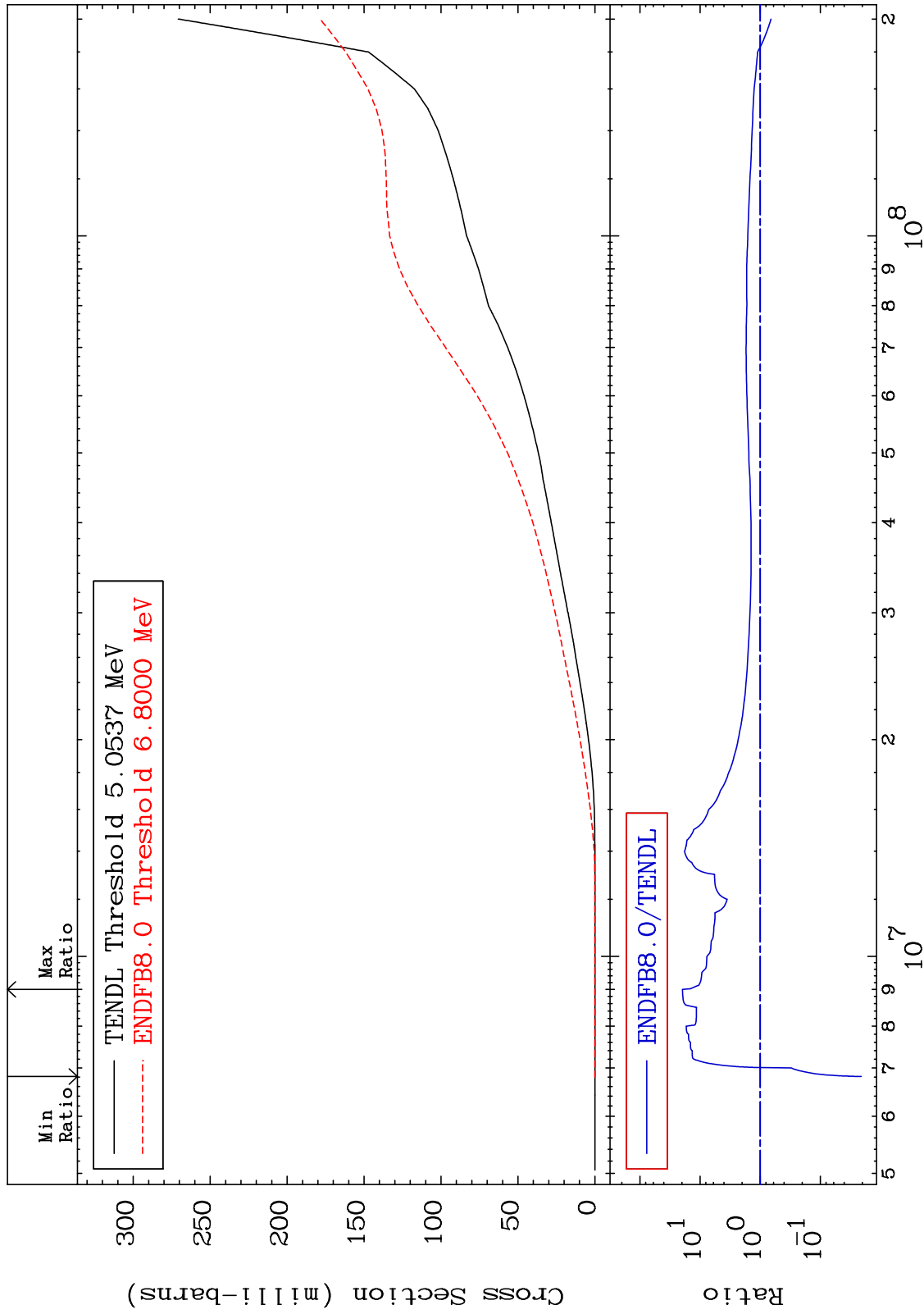
82-Pb-206  
-38.40 To 227.2 %



MAT 8231

Deuterium Production  
Cross Section

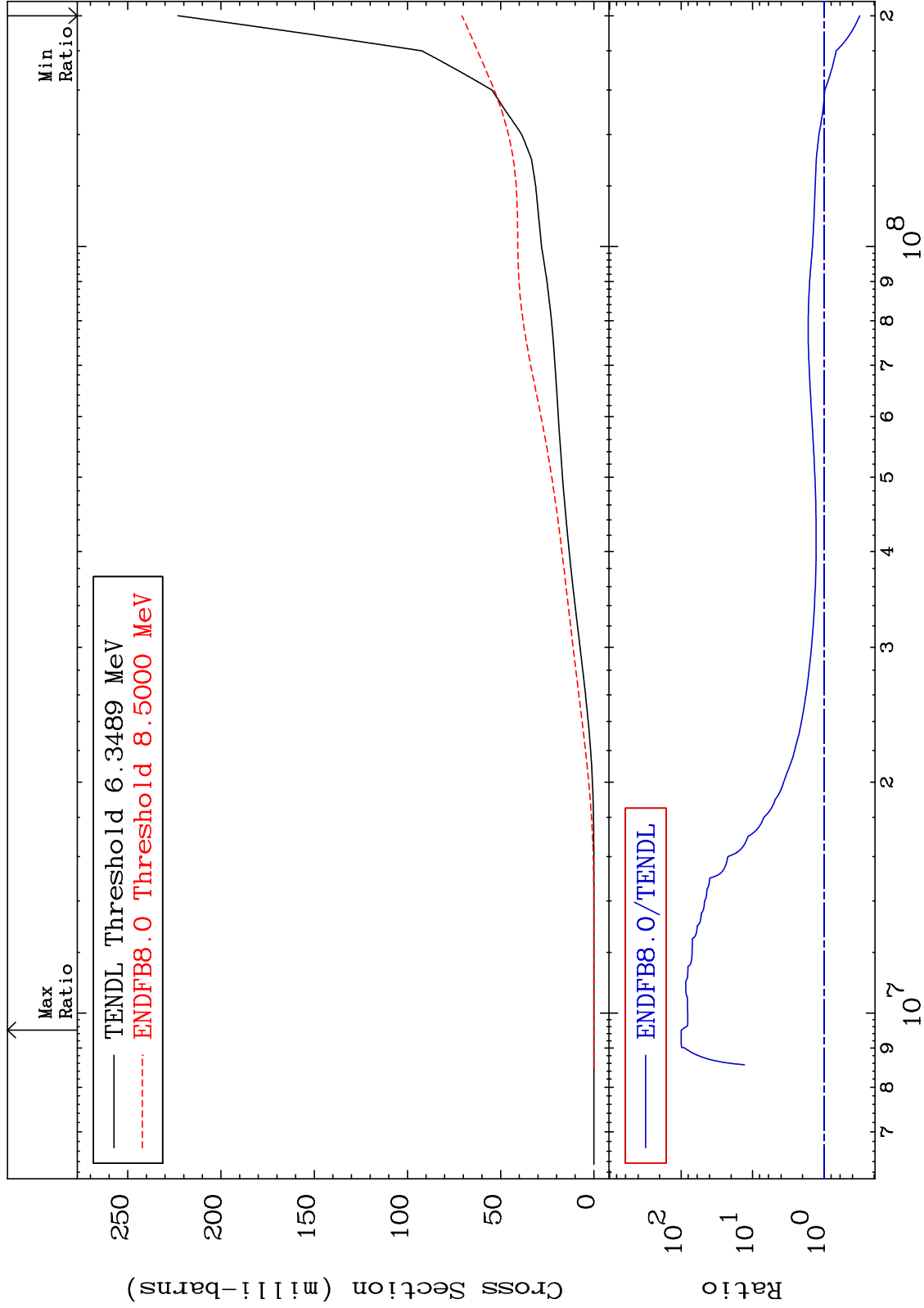
82-Pb-206  
-97.92 To 1860. %



MAT 8231

Tritium Production  
Cross Section

82-Pb-206  
-68.28 To 9869. %



47

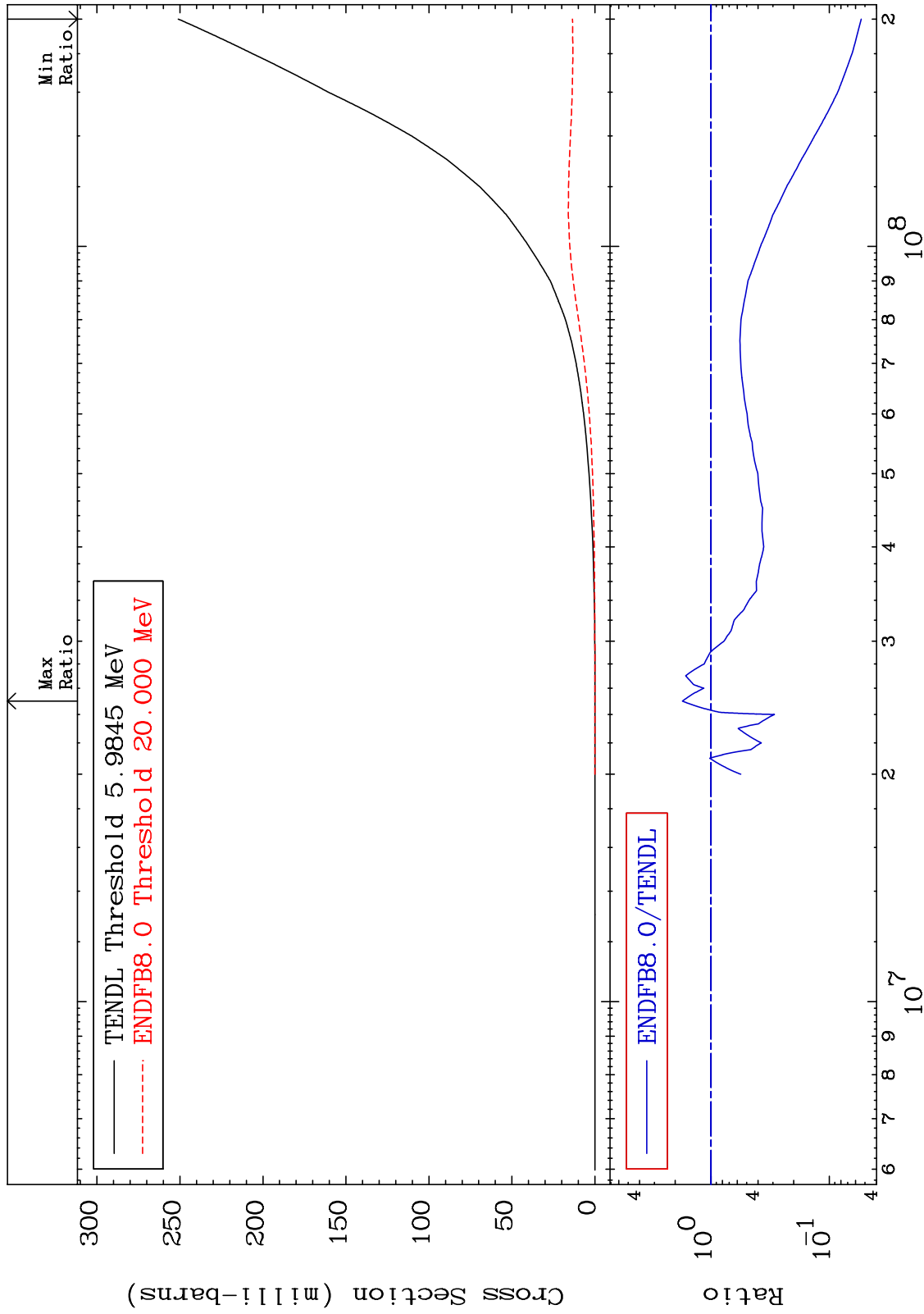
82-Pb-206



MAT 8231

He-3 Production  
Cross Section

82-Pb-206  
-94.63 To 73.95 %



48

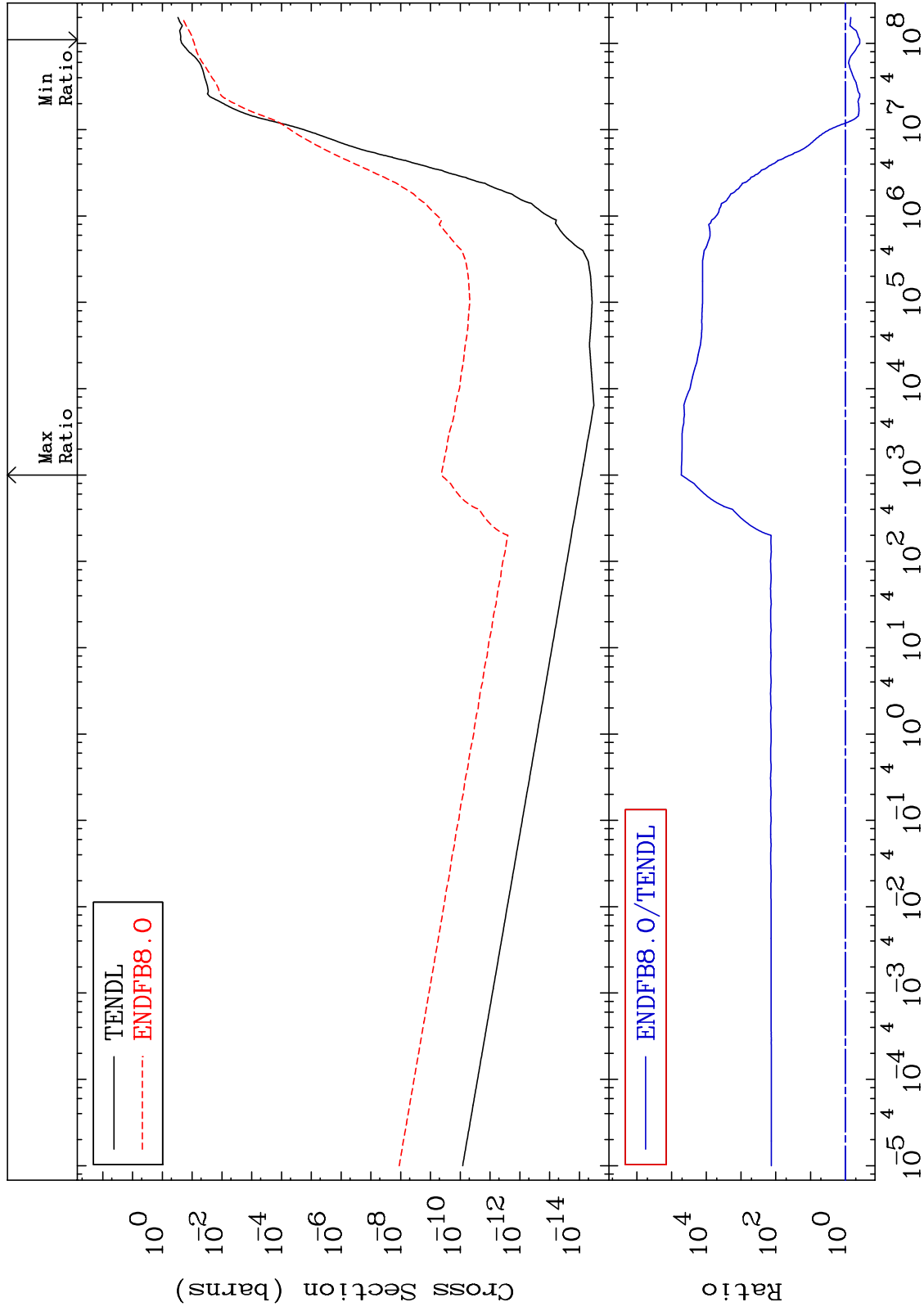
Incident Energy (eV)

82-Pb-206

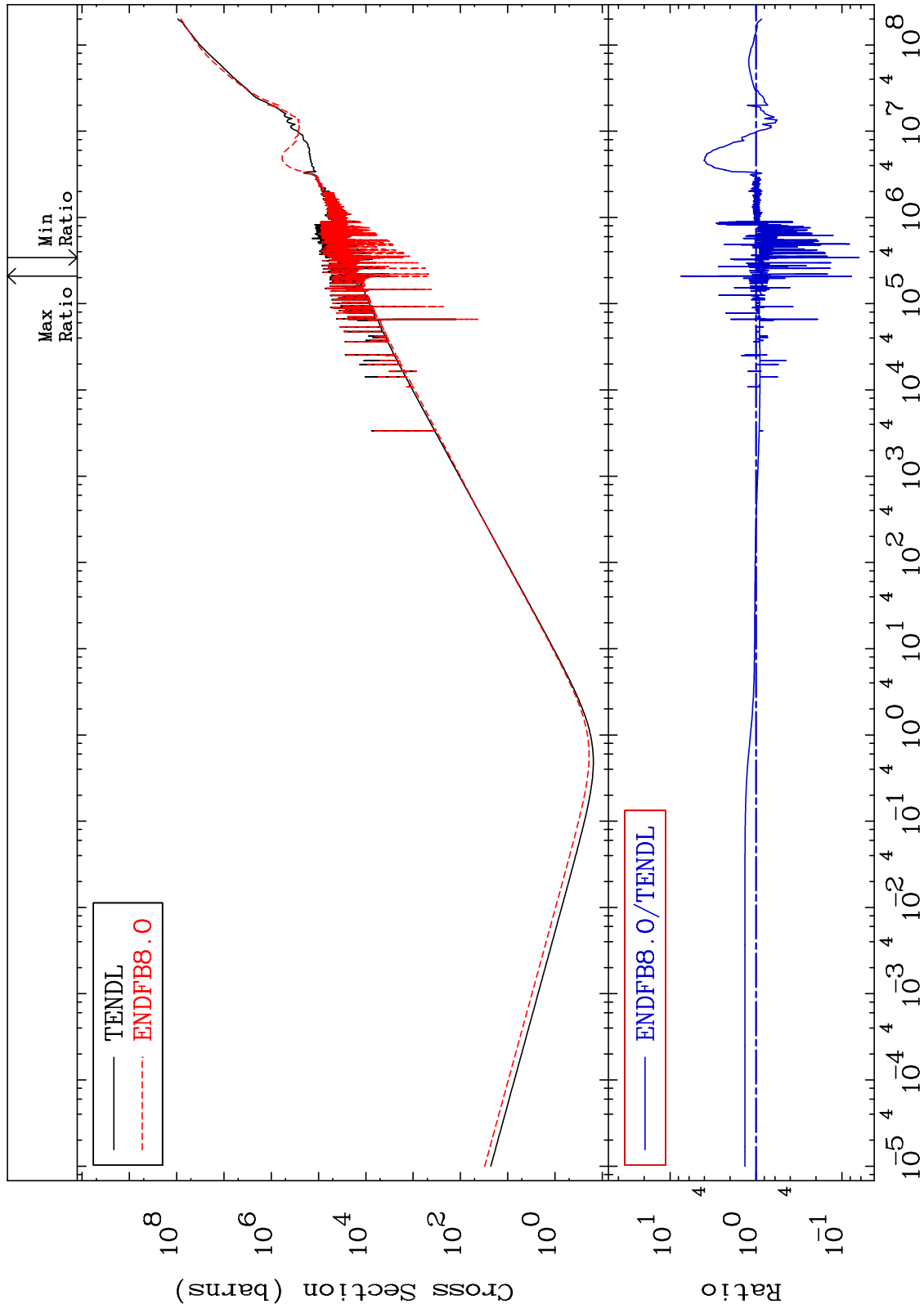
MAT 8231

He-4 Production  
Cross Section

82-Pb-206  
-61.79 To 9999. %



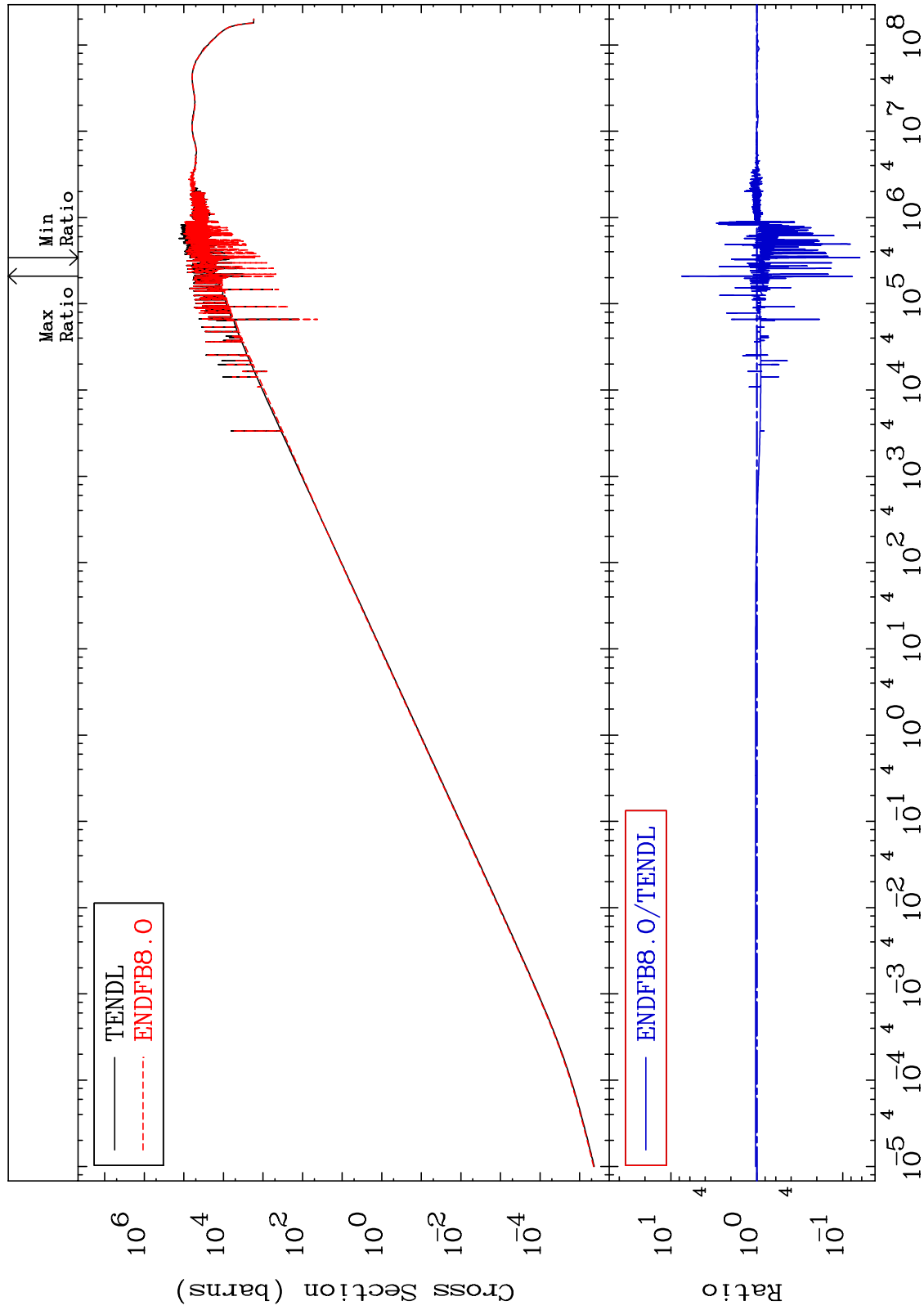
MAT 8231      Kerma total (eV-barns)  
 Cross Section      82-Pb-206  
 -93.67 To 653.0 %



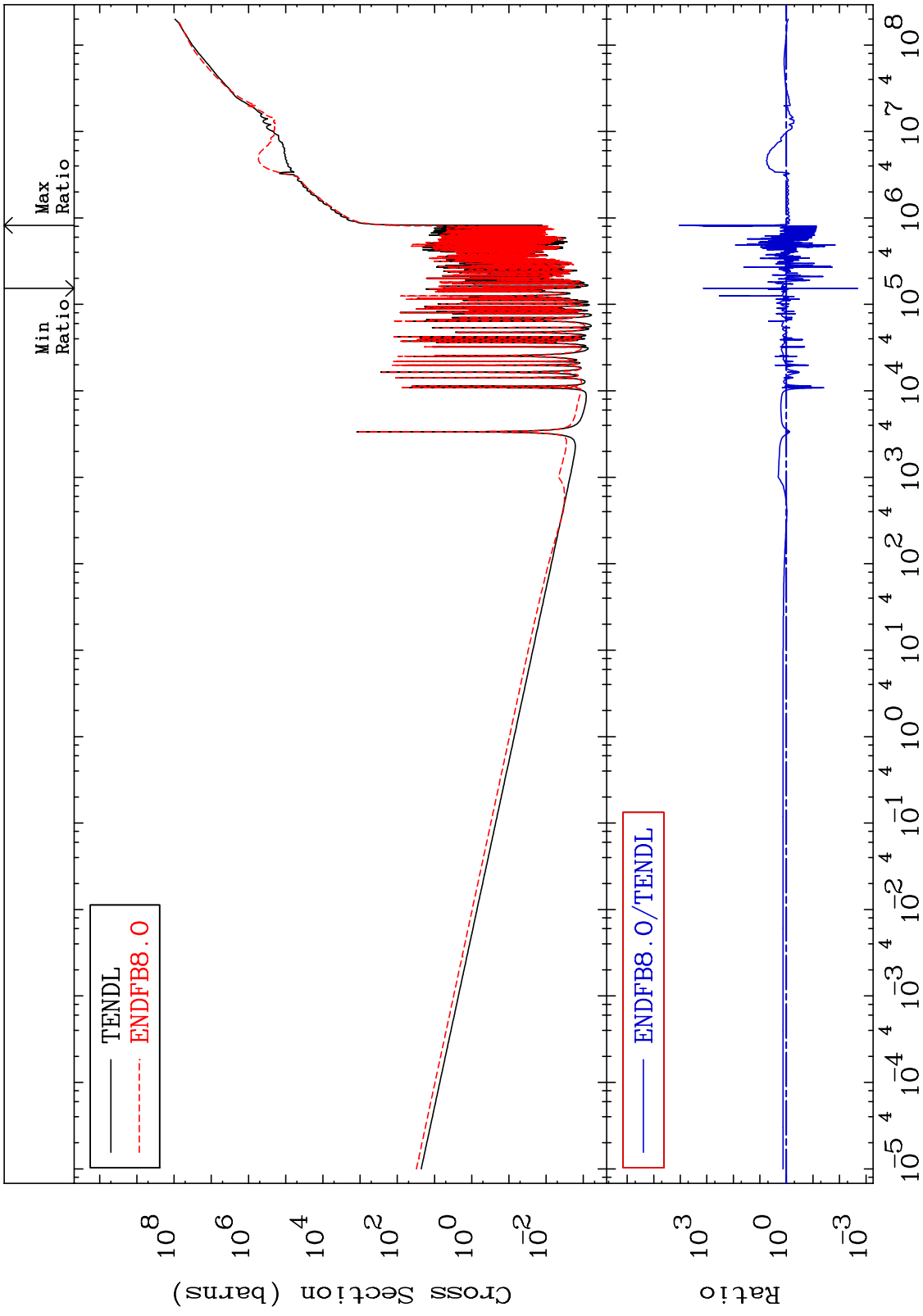
MAT 8231

Kerma elastic  
Cross Section

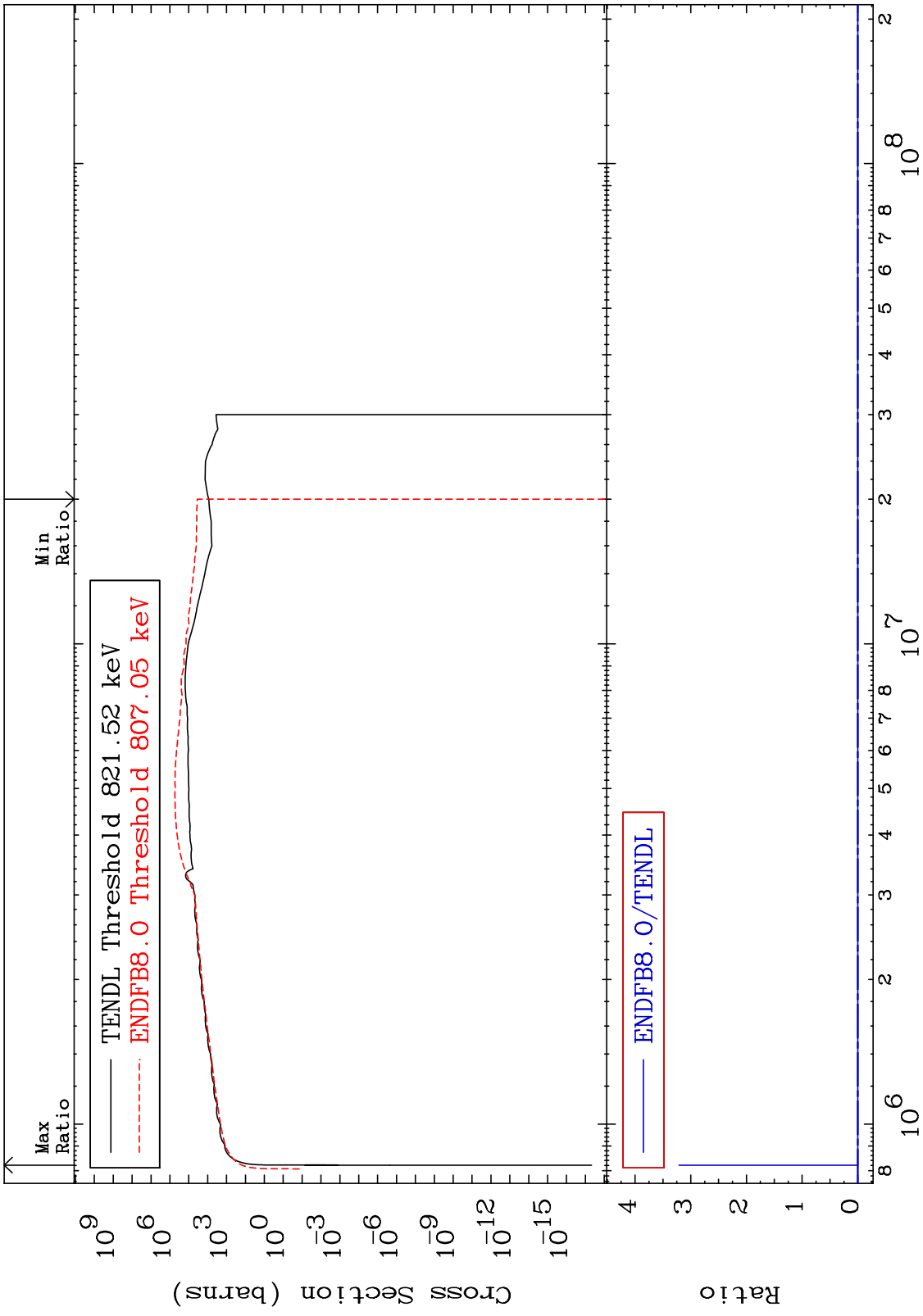
82-Pb-206  
-93.67 To 653.0 %



MAT 8231      Kerma non-elastic (all but mt2)      82-Pb-206  
 Cross Section      -99.80 To 9999. %



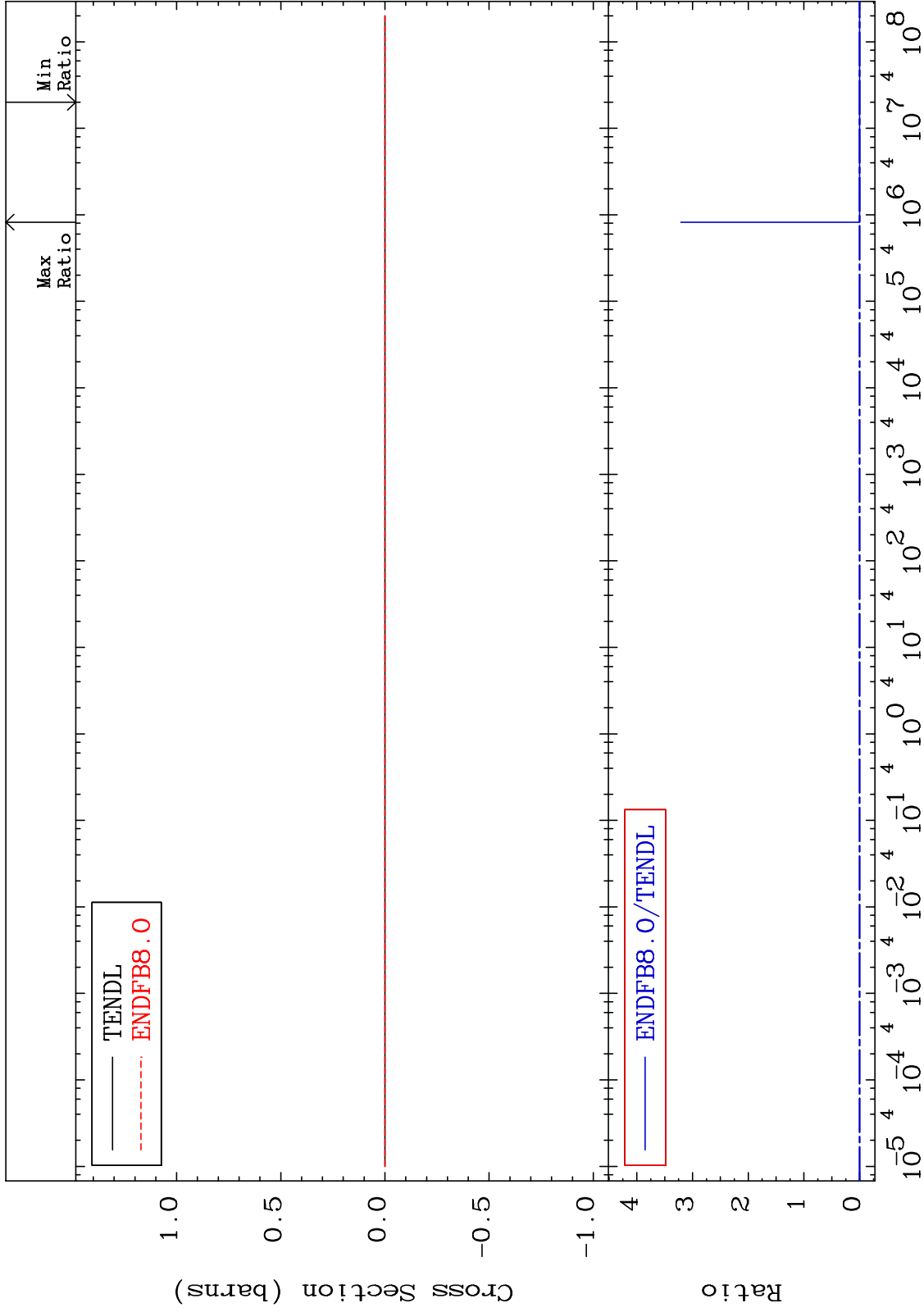
MAT 8231 Kerma inelastic (mt51-91) 82-Pb-206  
 -100.0 To 9999. %



MAT 8231

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

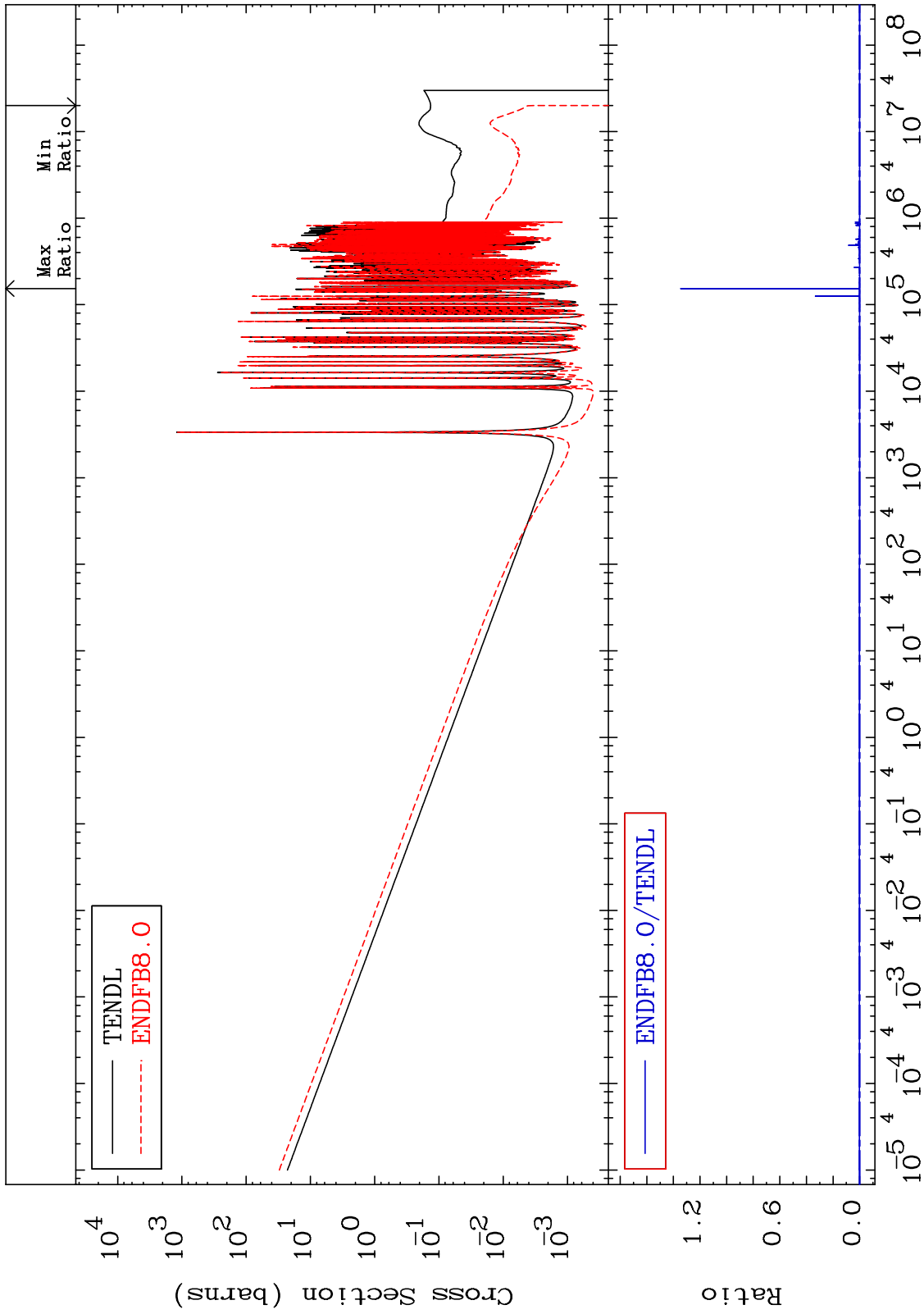
82-Pb-206  
-100.0 To 9999. %



MAT 8231

Kerma capture (mt102)  
Cross Section

82-Pb-206  
-100.0 To 9999. %

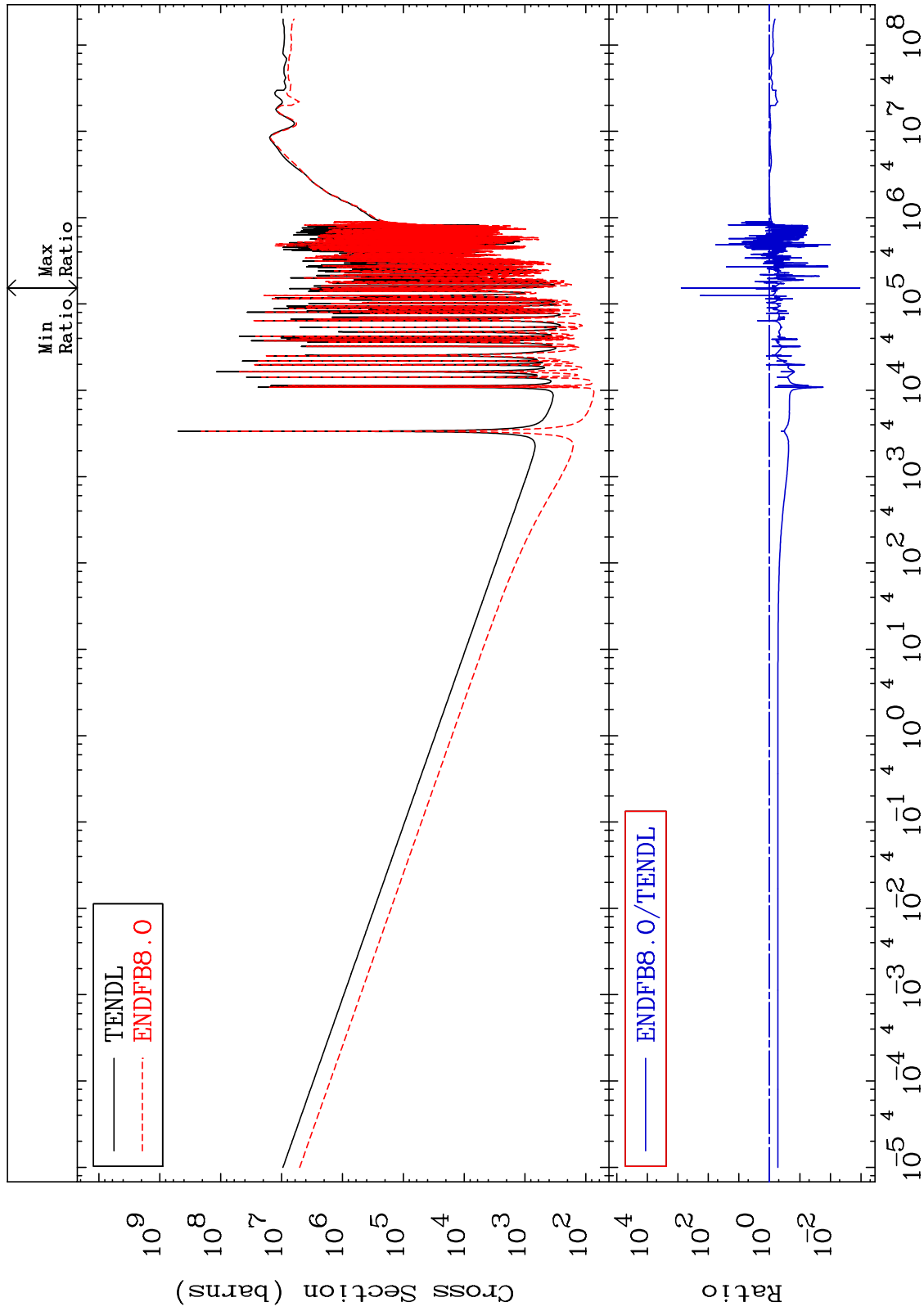




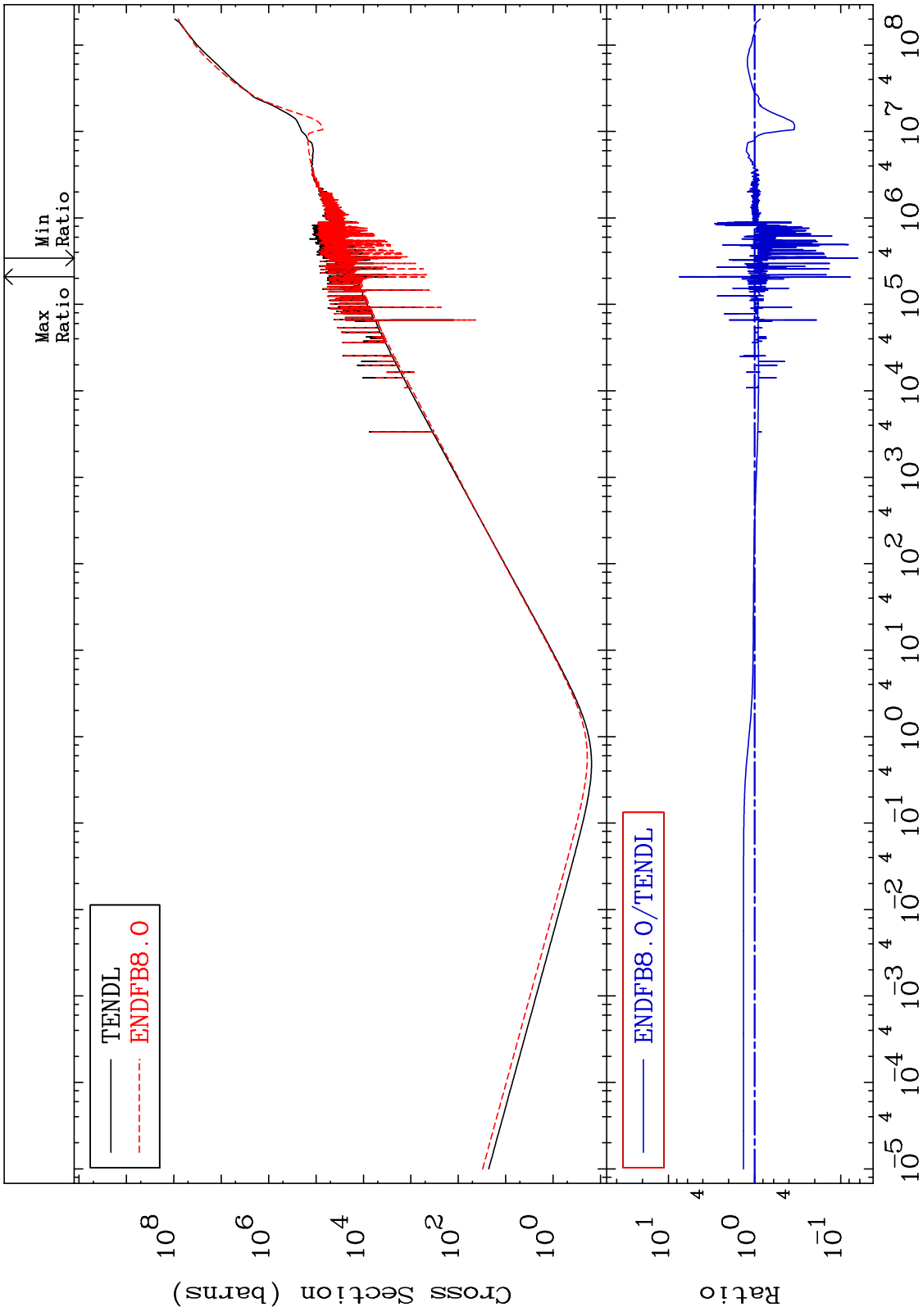
MAT 8231

Total photon (eV-barns)  
Cross Section

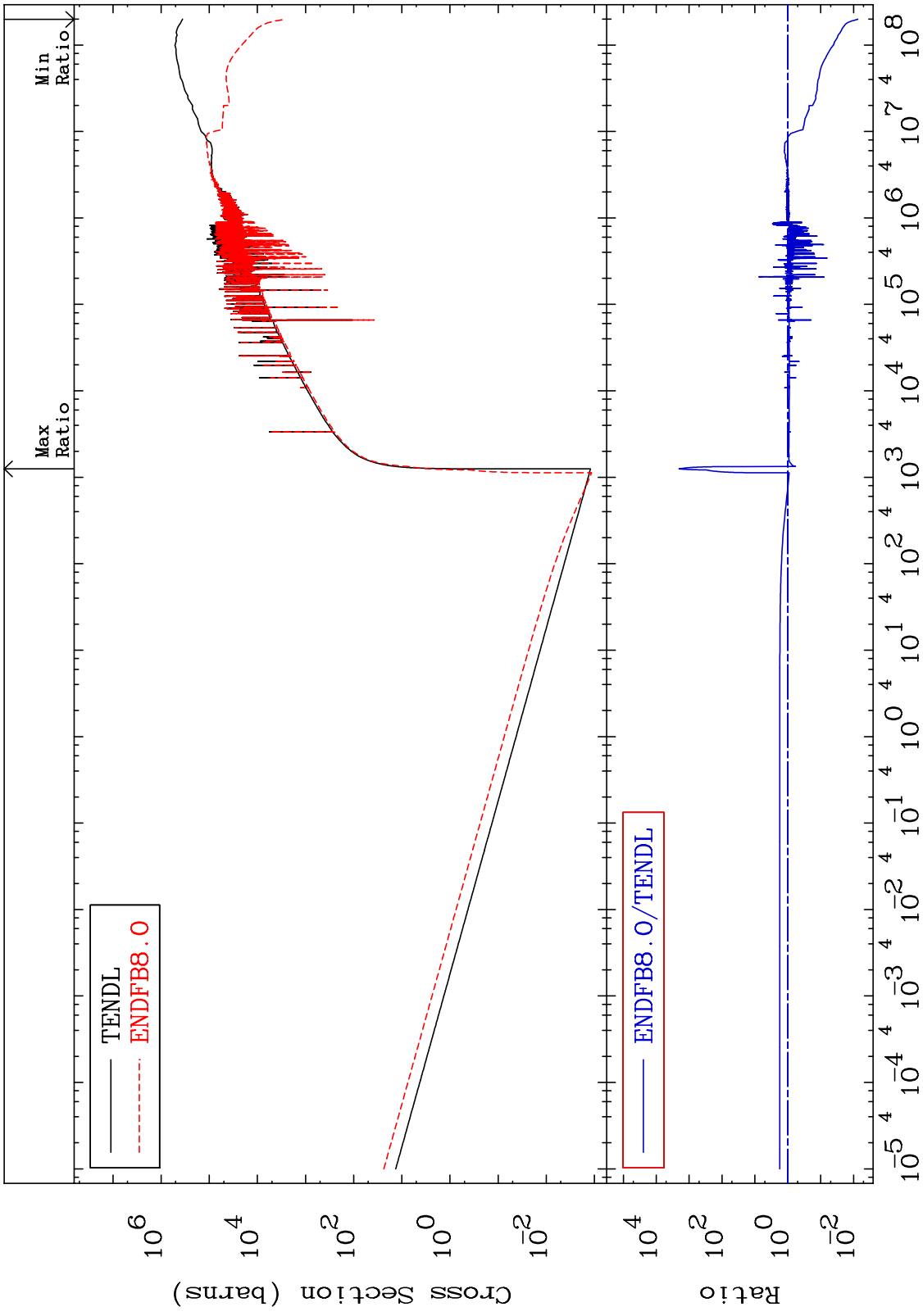
82-Pb-206  
-99.89 To 9999. %



MAT 8231 Total kinematic kerma (high limit) 82-Pb-206  
 Cross Section -93.67 To 653.0 %



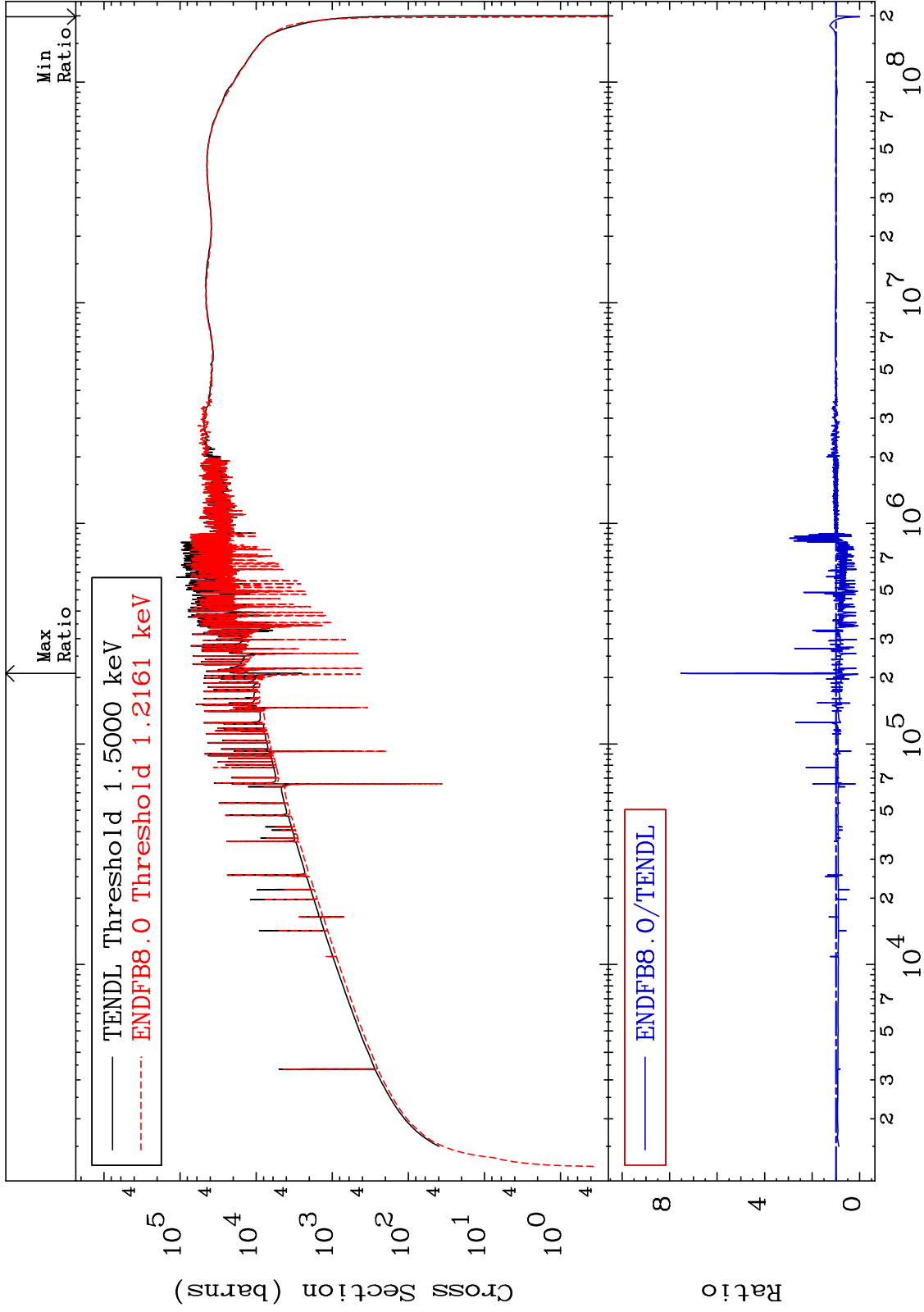
MAT 8231                      Dpa total (eV-barns)                      82-Pb-206  
 Cross Section                      -99.26 To 9999. %



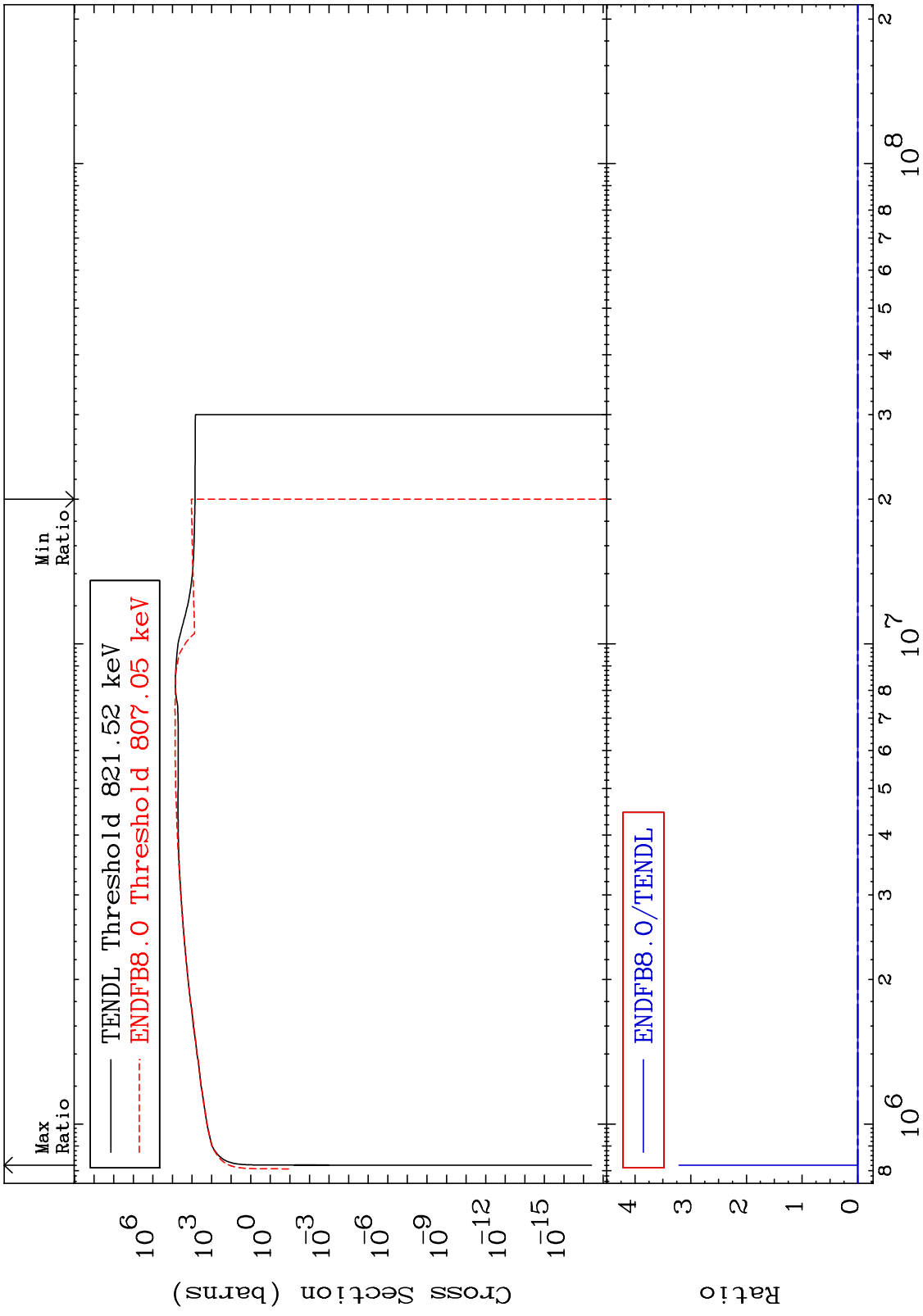
MAT 8231

Dpa elastic (mt2)  
Cross Section

82-Pb-206  
-100.0 To 653.0 %



MAT 8231      Dpa inelastic (mt51-91)      82-Pb-206  
 Cross Section      -100.0 To 9999. %



60      Incident Energy (eV)      82-Pb-206

MAT 8231      Dpa disappearance (mt102 -120)      82-Pb-206  
 Cross Section      -100.0 To 9999. %

