

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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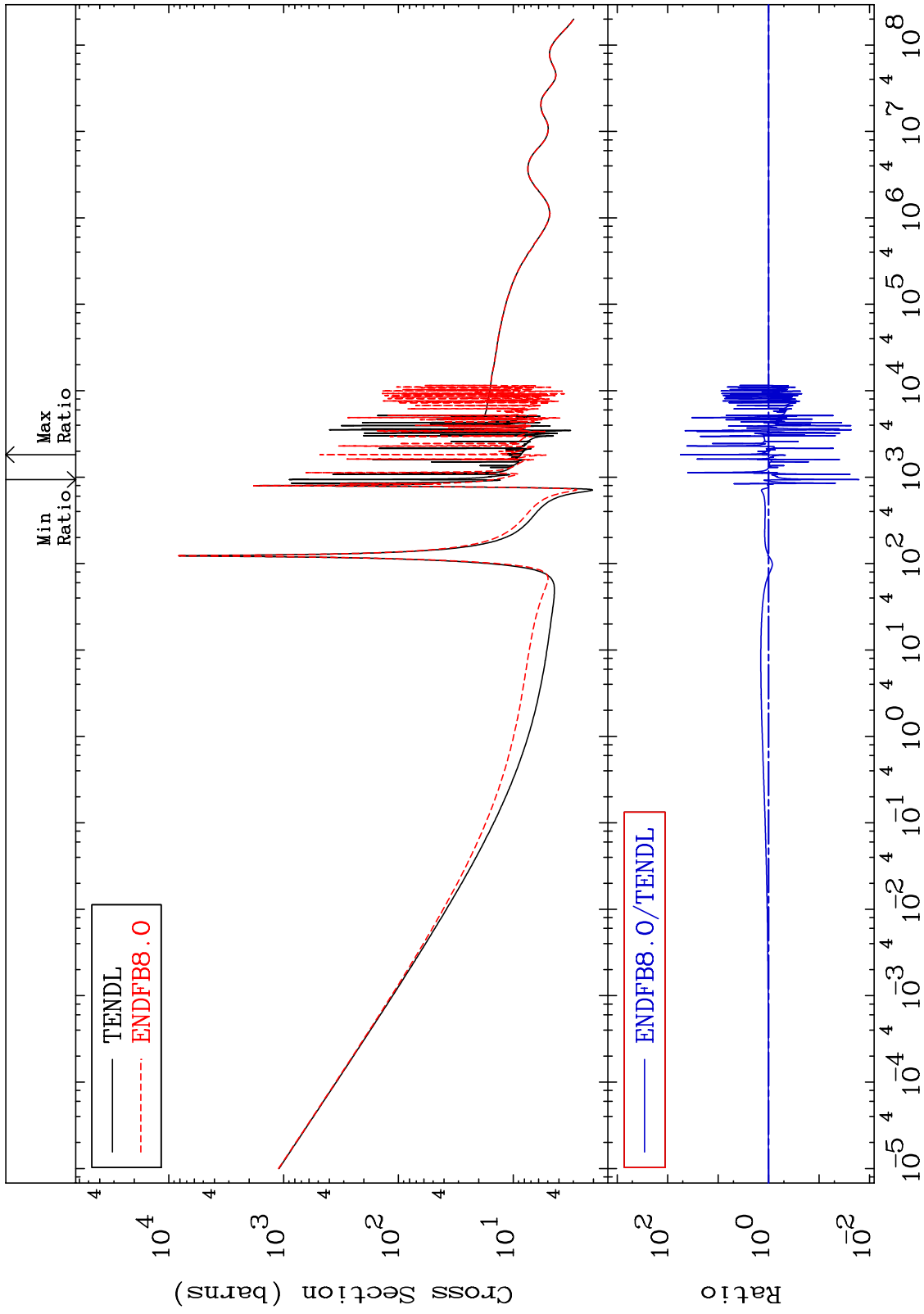
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 8128

Total  
Cross Section

81-TI-204  
-98.37 To 5537. %



1

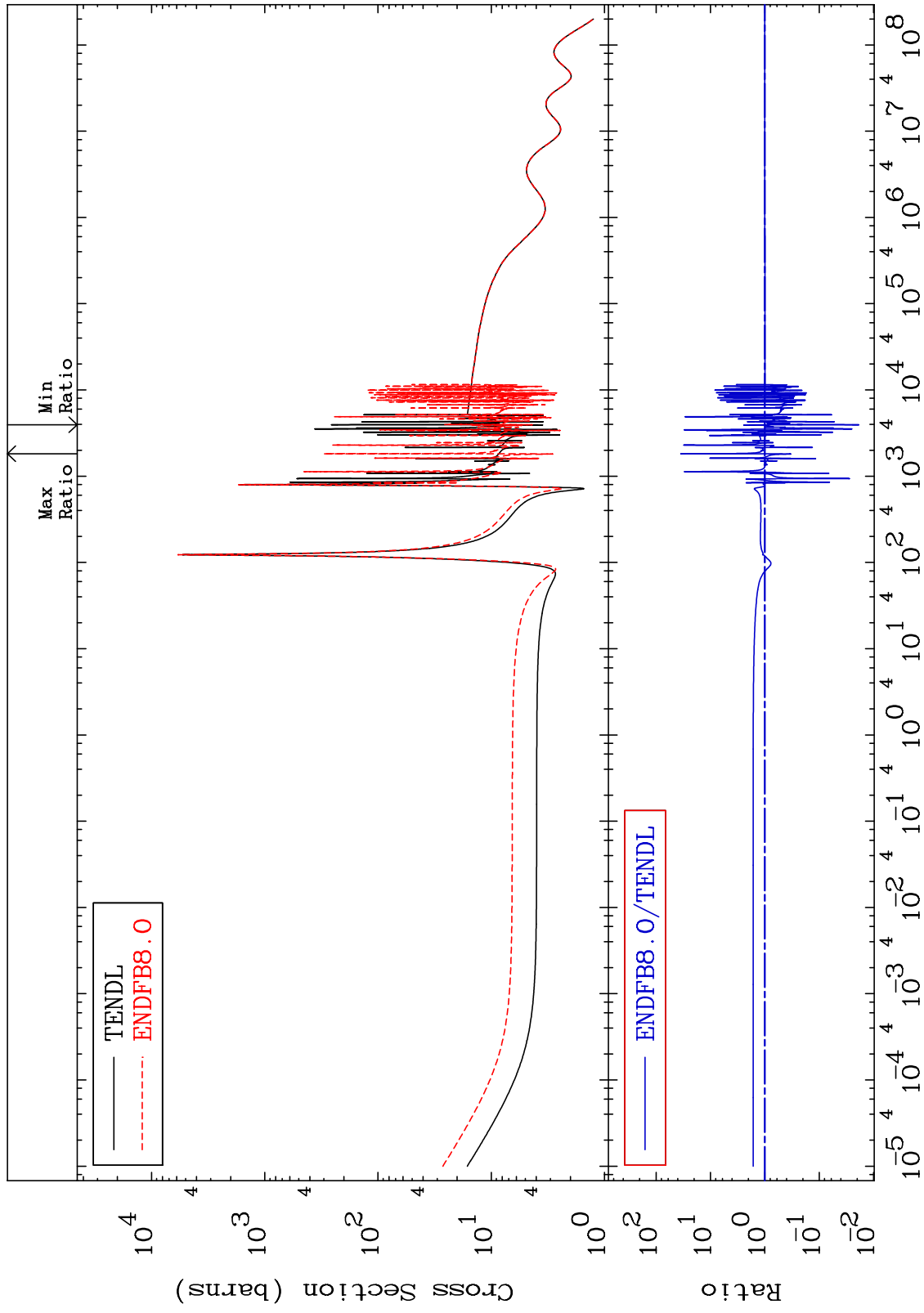
Incident Energy (eV)

81-TI-204

MAT 8128

Elastic  
Cross Section

81-TI-204  
-98.14 To 3432. %

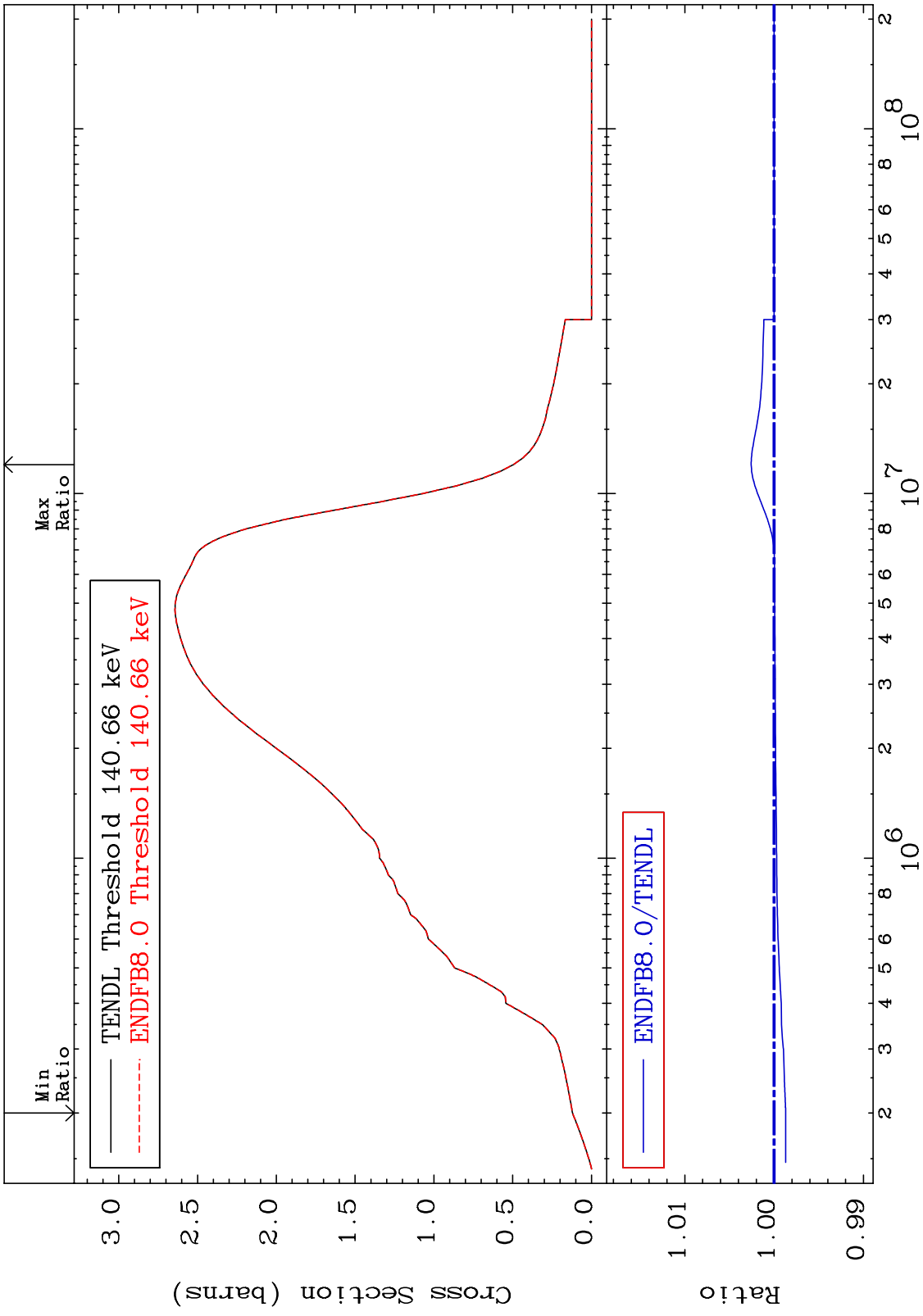


2

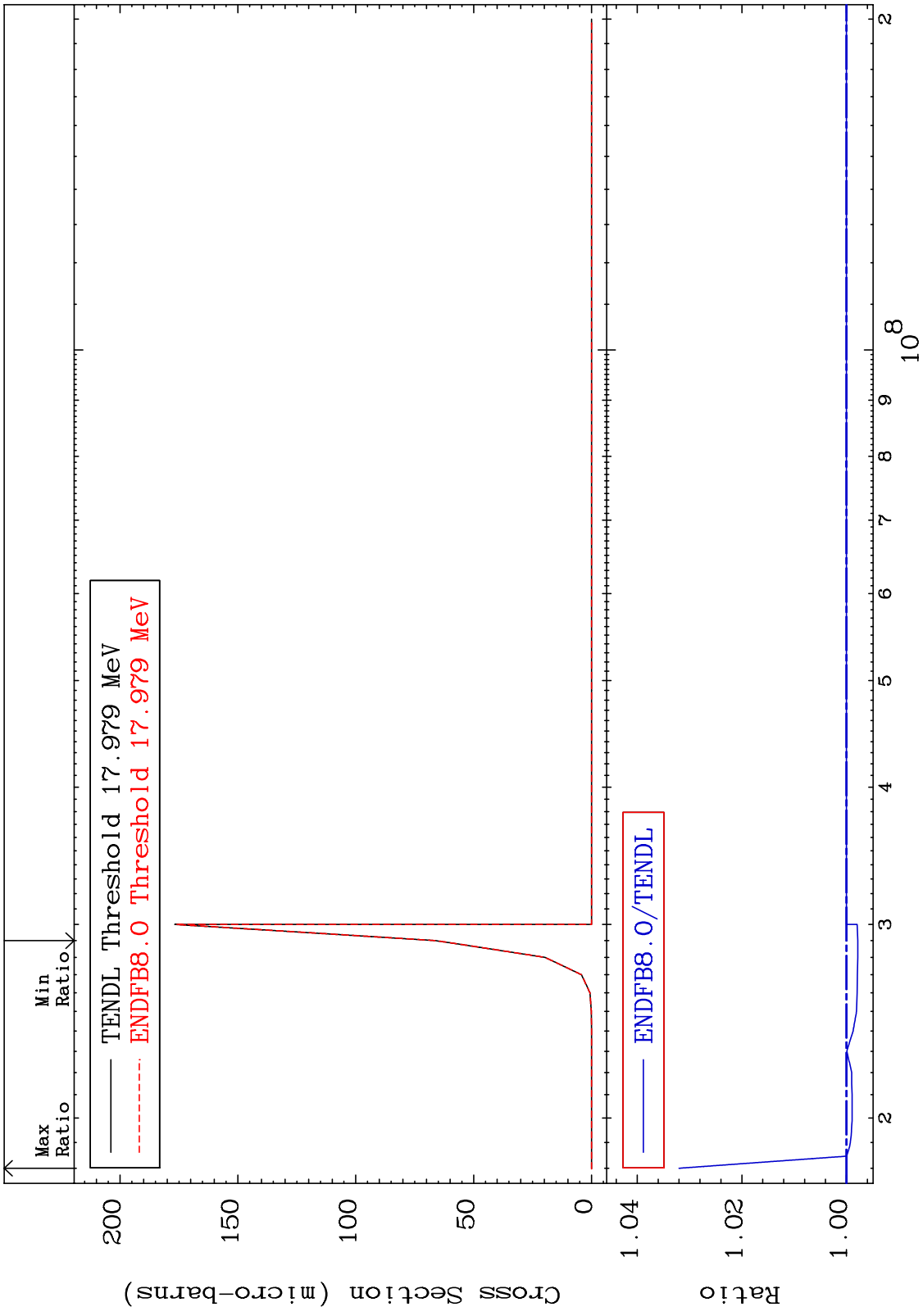
Incident Energy (eV)

81-TI-204

MAT 8128 Inelastic Cross Section 81-Tl-204 -0.130 To 0.258 %

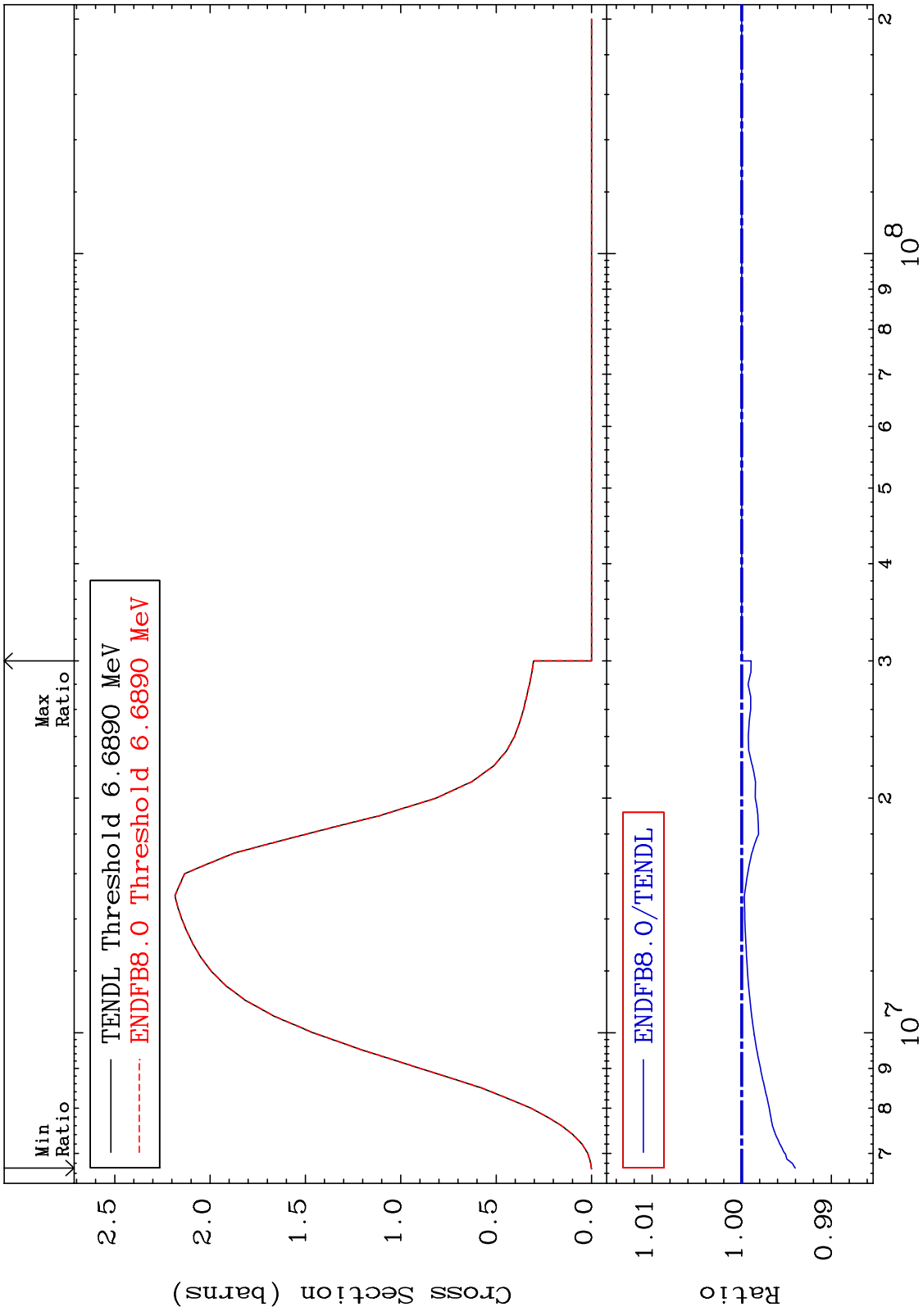


MAT 8128 (n,2n) d 81-Tl-204  
 Cross Section -0.218 To 3.201 %

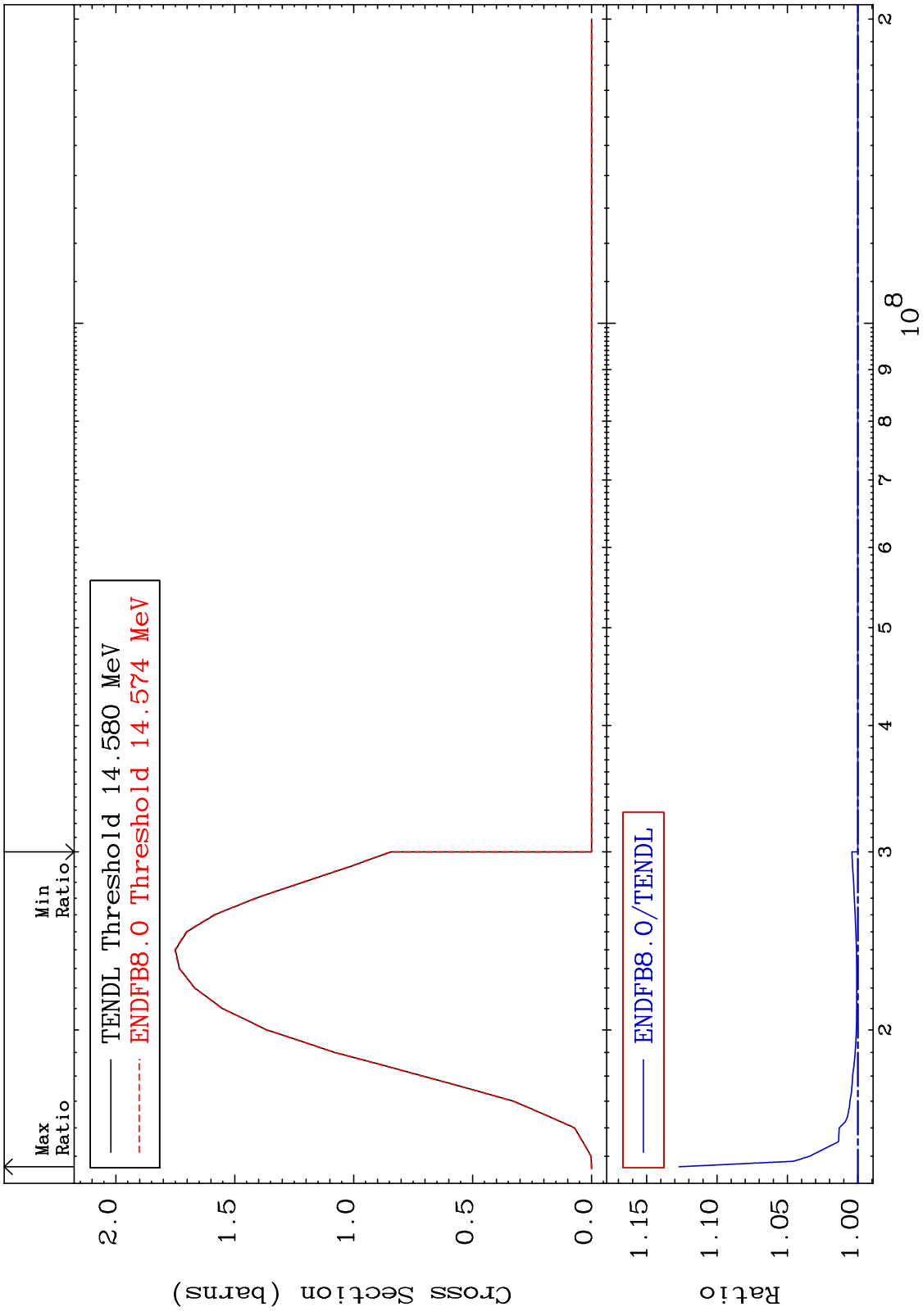


MAT 8128 81-Tl-204  
-0.597 To 0.000 %

(n,2n)  
Cross Section



MAT 8128 (n,3n) Cross Section 81-Tl-204 To 12.70 %



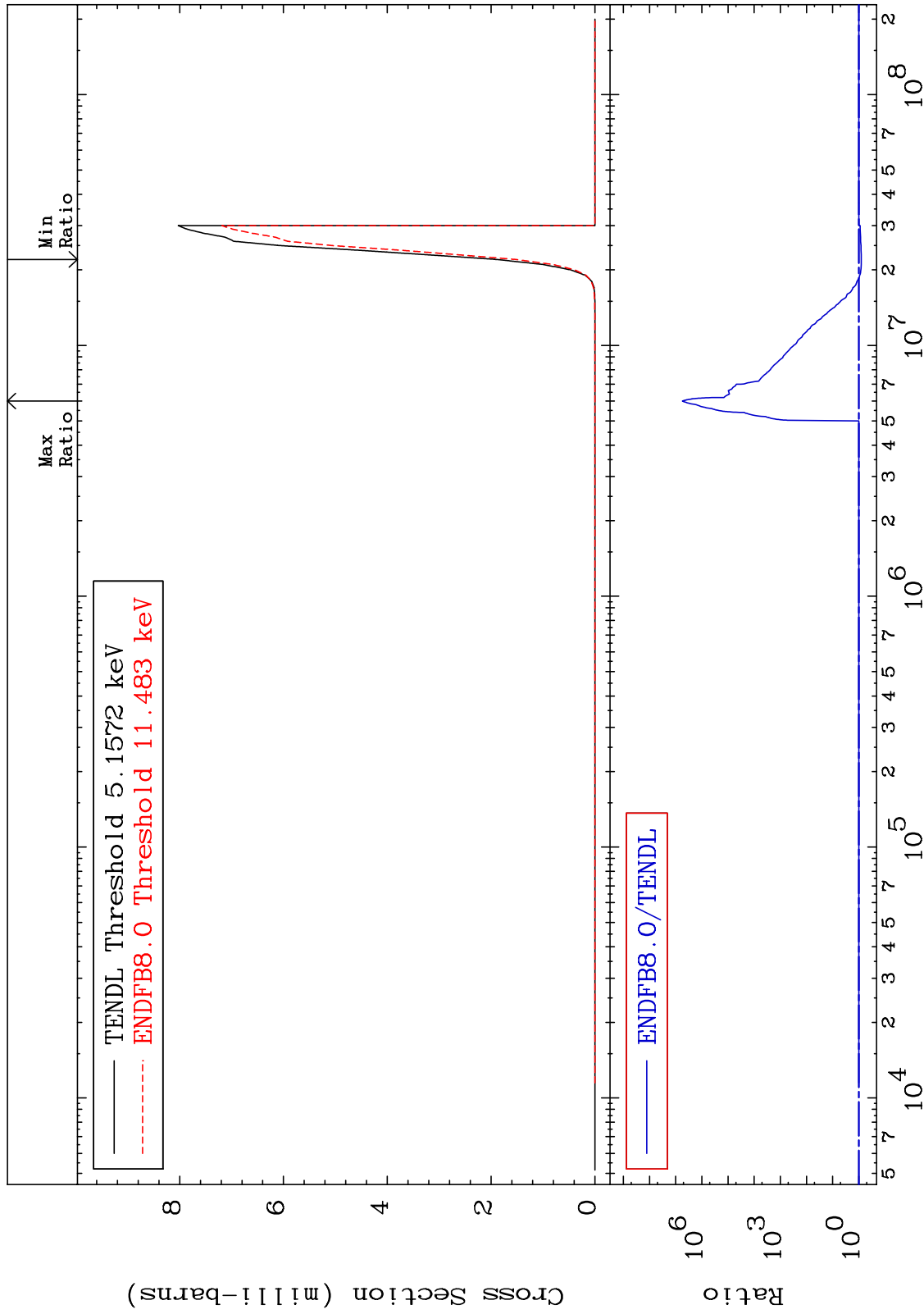
MAT 8128

(n, n')  $\alpha$

81-Tl-204

Cross Section

-19.25 To 9999. %



7

Incident Energy (eV)

81-Tl-204

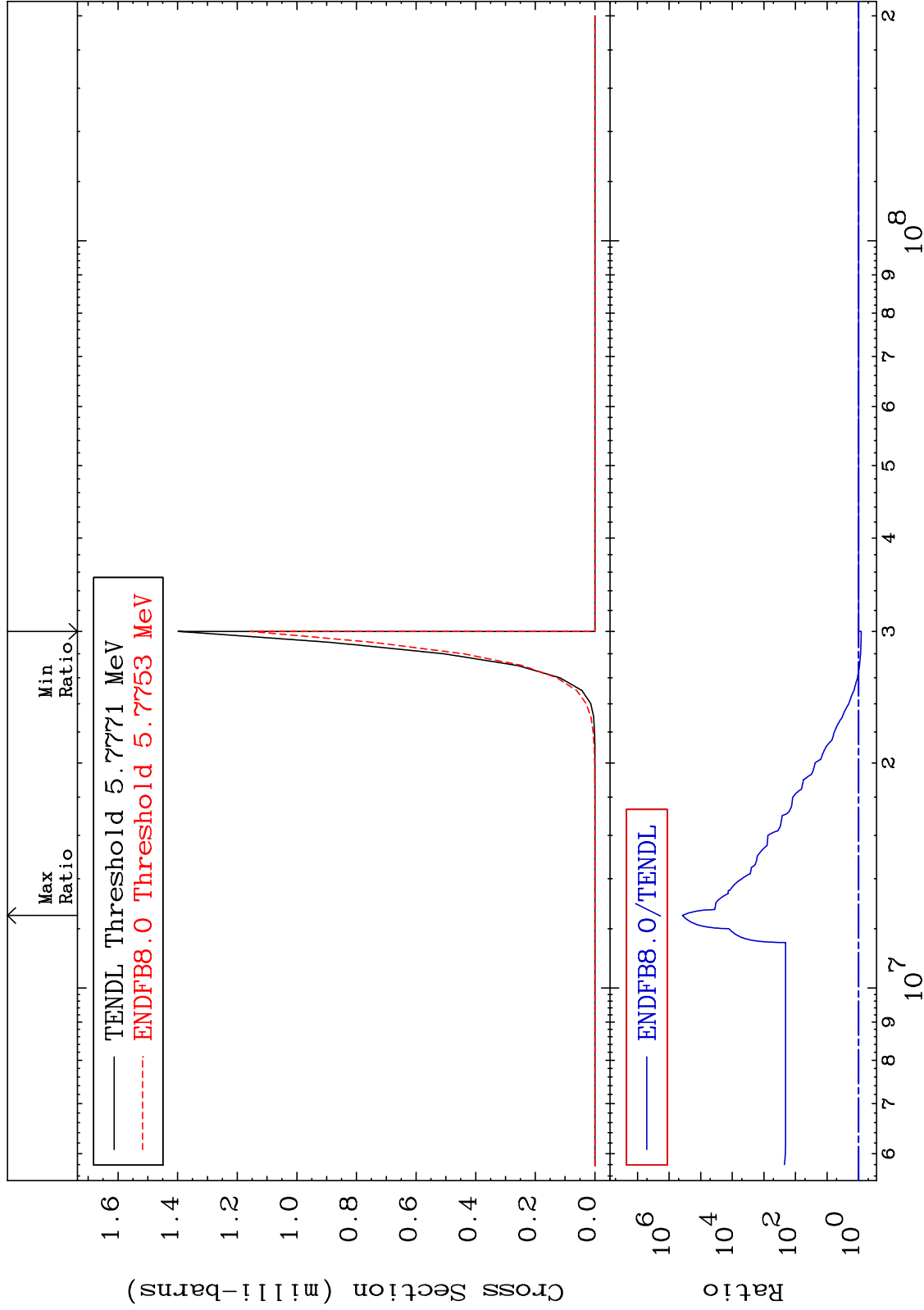
MAT 8128

(n,2n)  $\alpha$

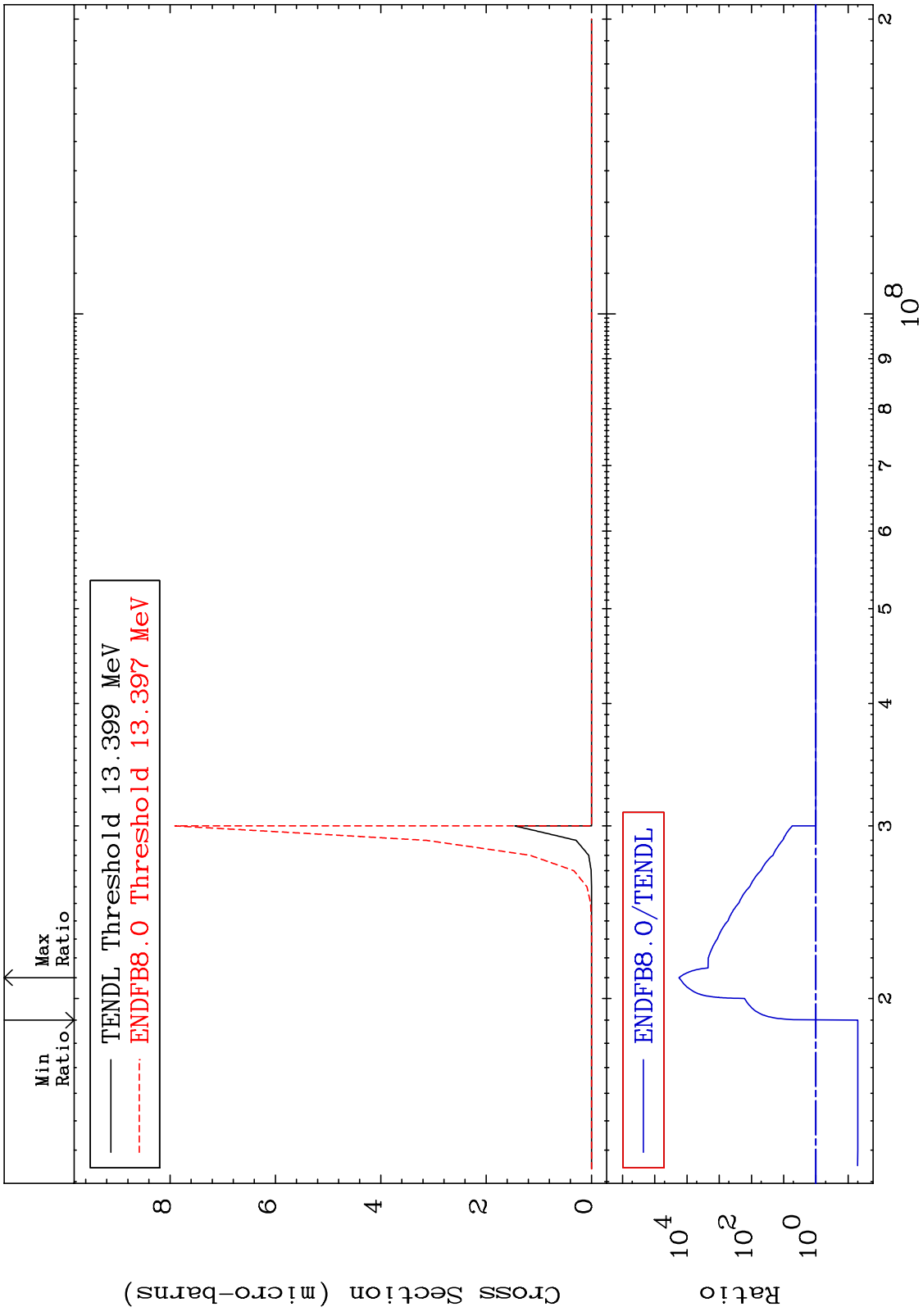
81-Tl-204

-17.26 To 9999. %

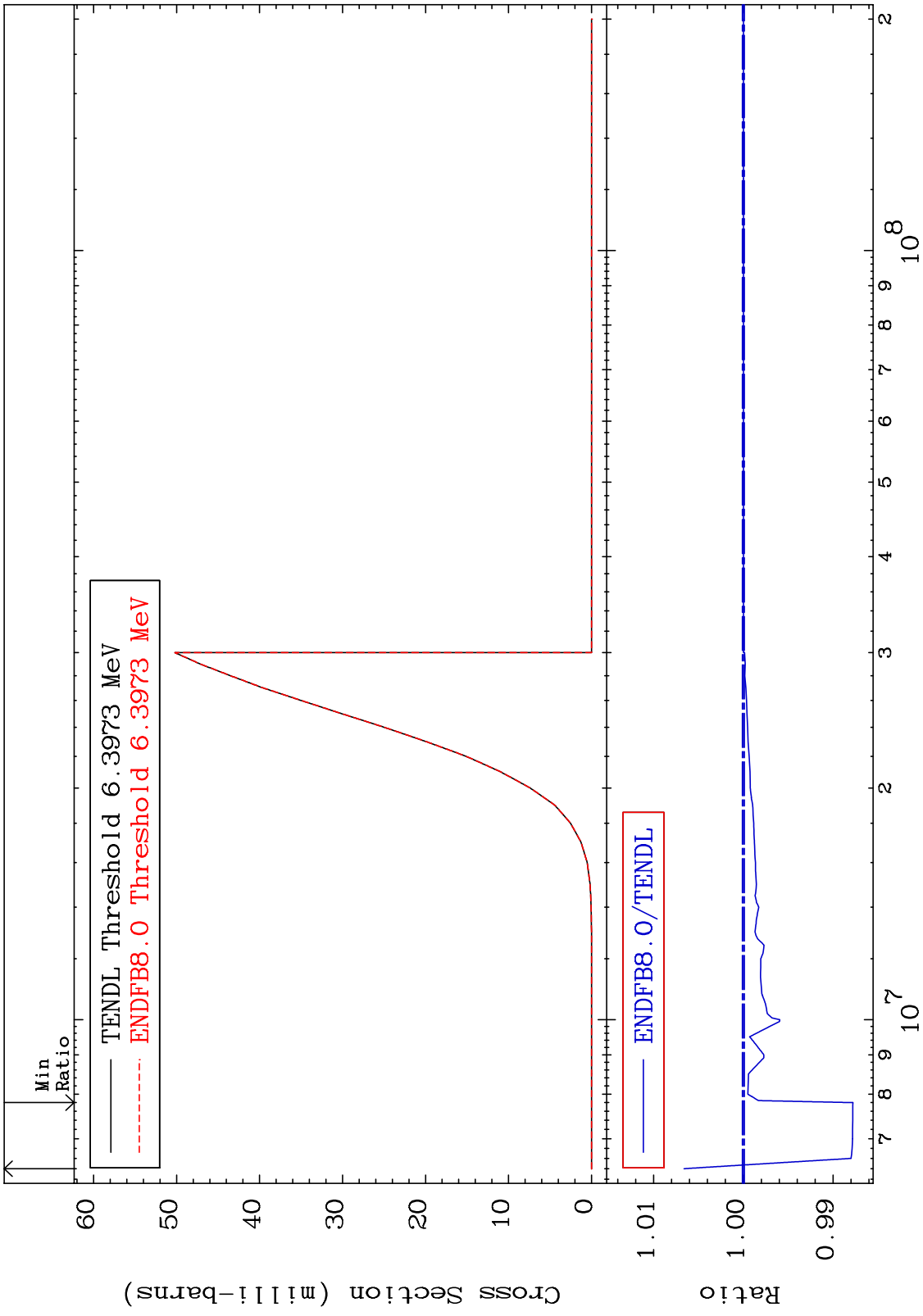
Cross Section



MAT 8128 81-Tl-204  
(n,3n)  $\alpha$   
-94.99 To 9999. %  
 Cross Section

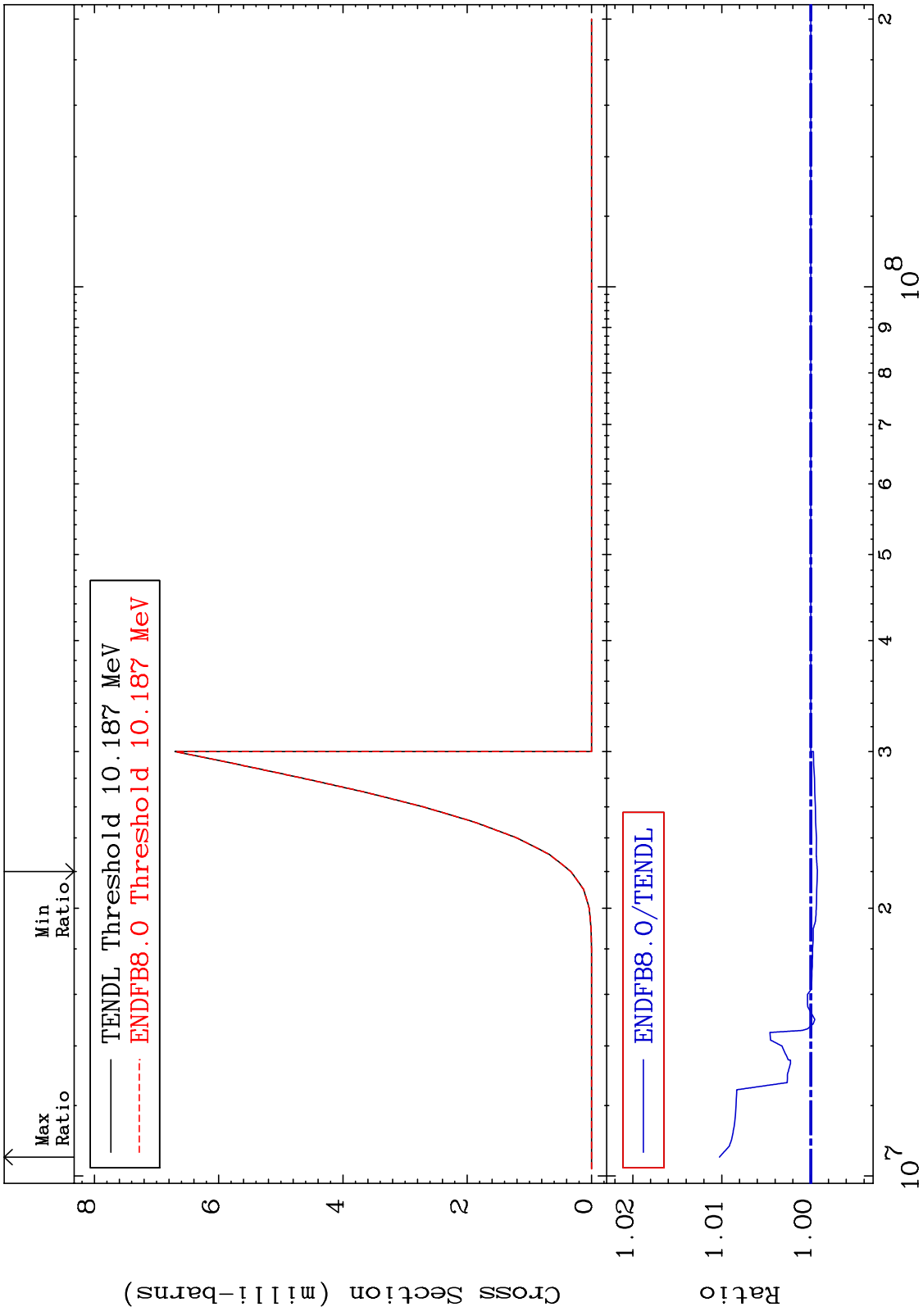


MAT 8128 (n,n') p 81-Tl-204  
 Cross Section -1.222 To 0.662 %



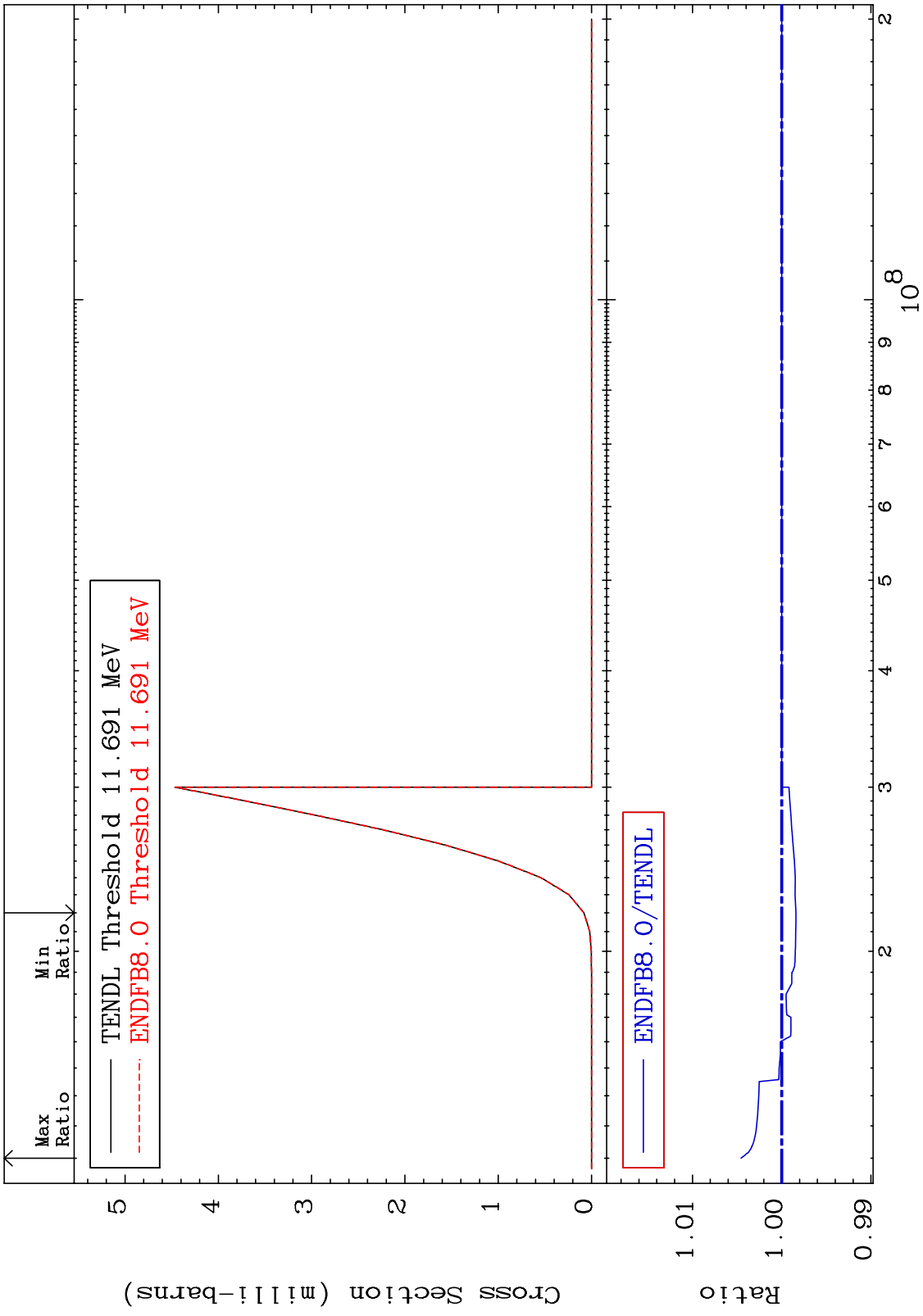
10 Incident Energy (eV) 81-Tl-204

MAT 8128 (n,n') d 81-Tl-204  
 Cross Section -0.076 To 1.026 %

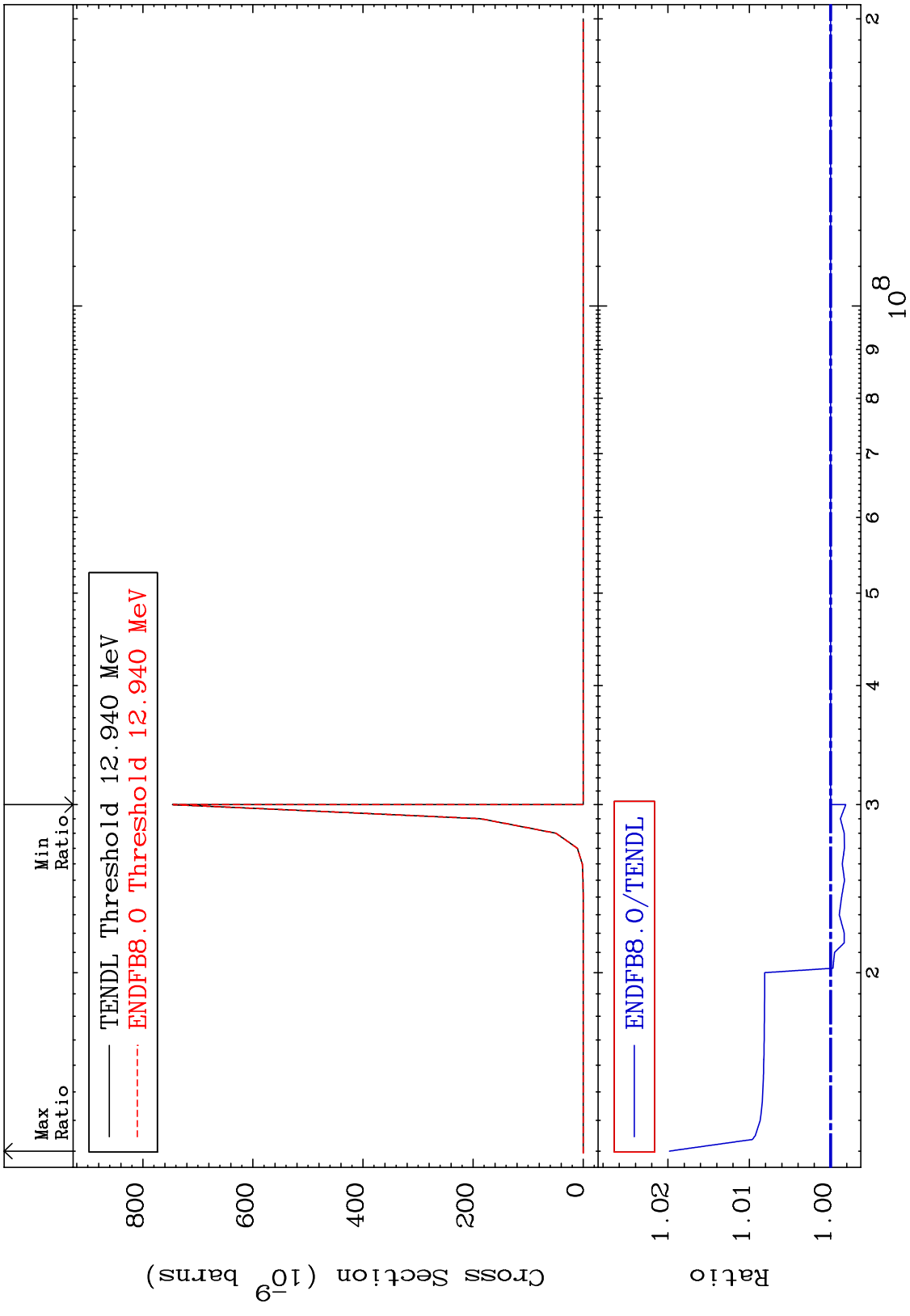


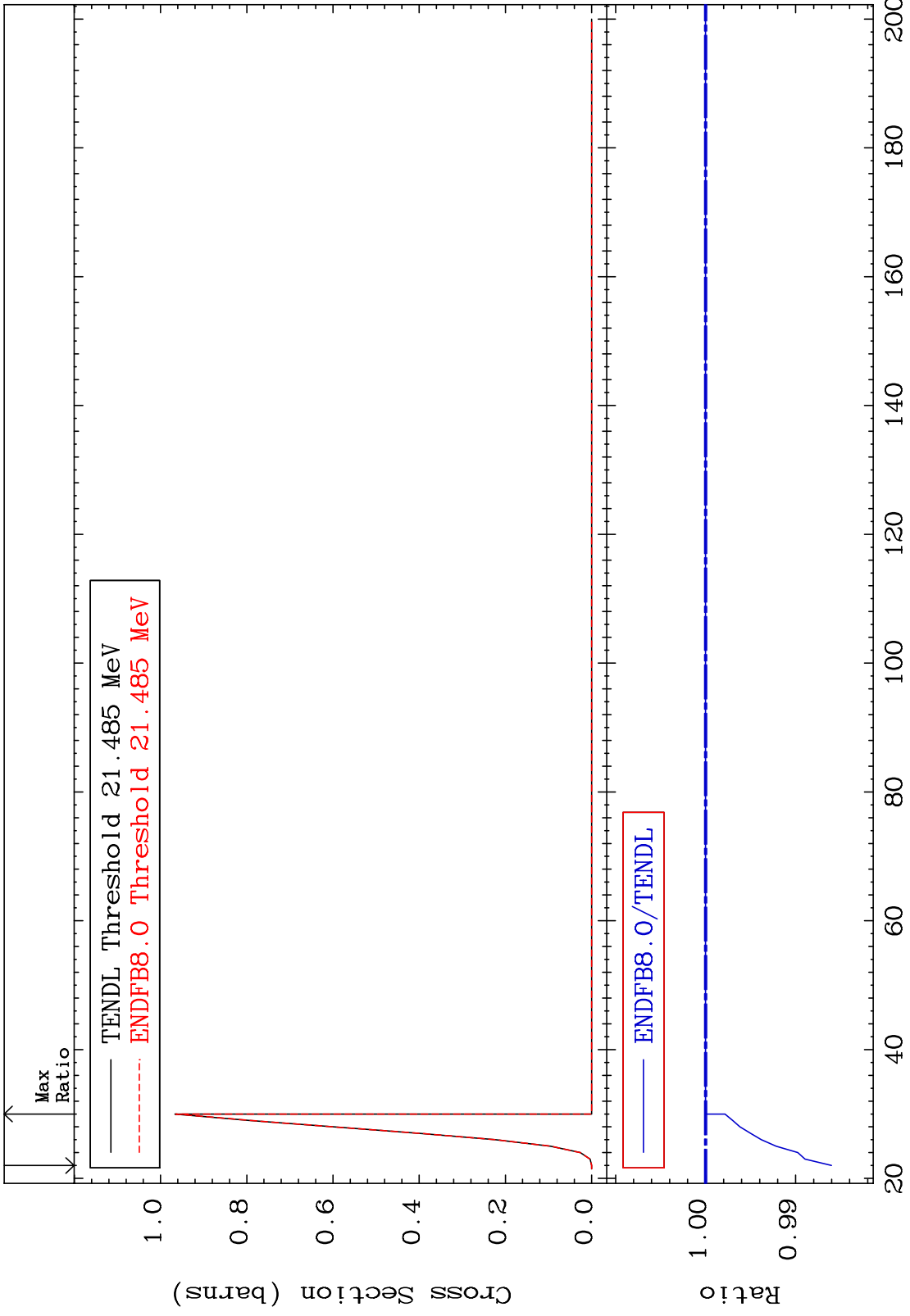
11 Incident Energy (eV) 81-Tl-204

MAT 8128 (n,n') t 81-Tl-204  
 Cross Section -0.159 To 0.456 %

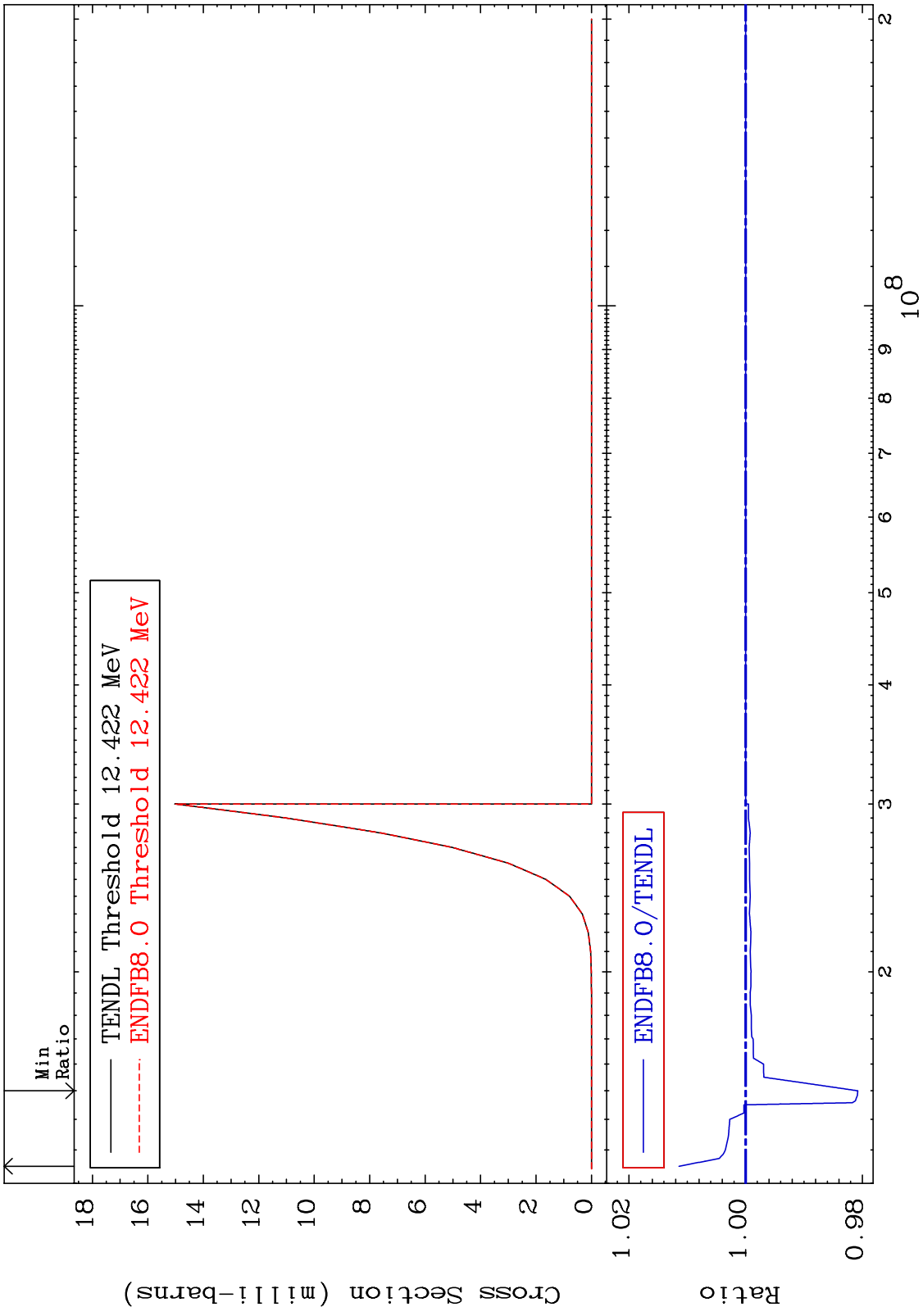


MAT 8128 (n, n') He-3 81-Tl-204  
 Cross Section -0.186 To 1.982 %





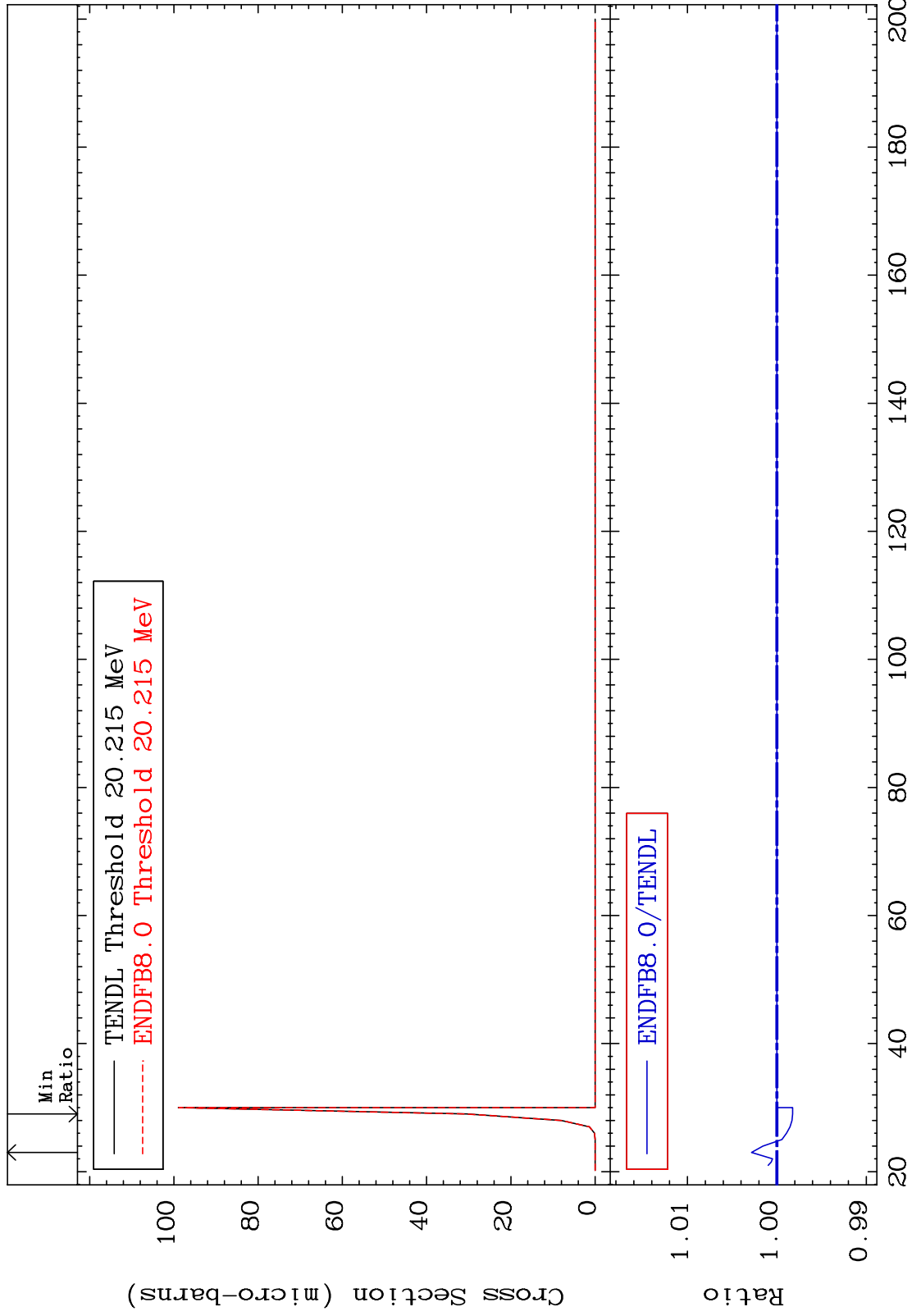
MAT 8128 (n,2n) p 81-Tl-204  
Cross Section -1.924 To 1.142 %



MAT 8128

(n,3n) p  
Cross Section

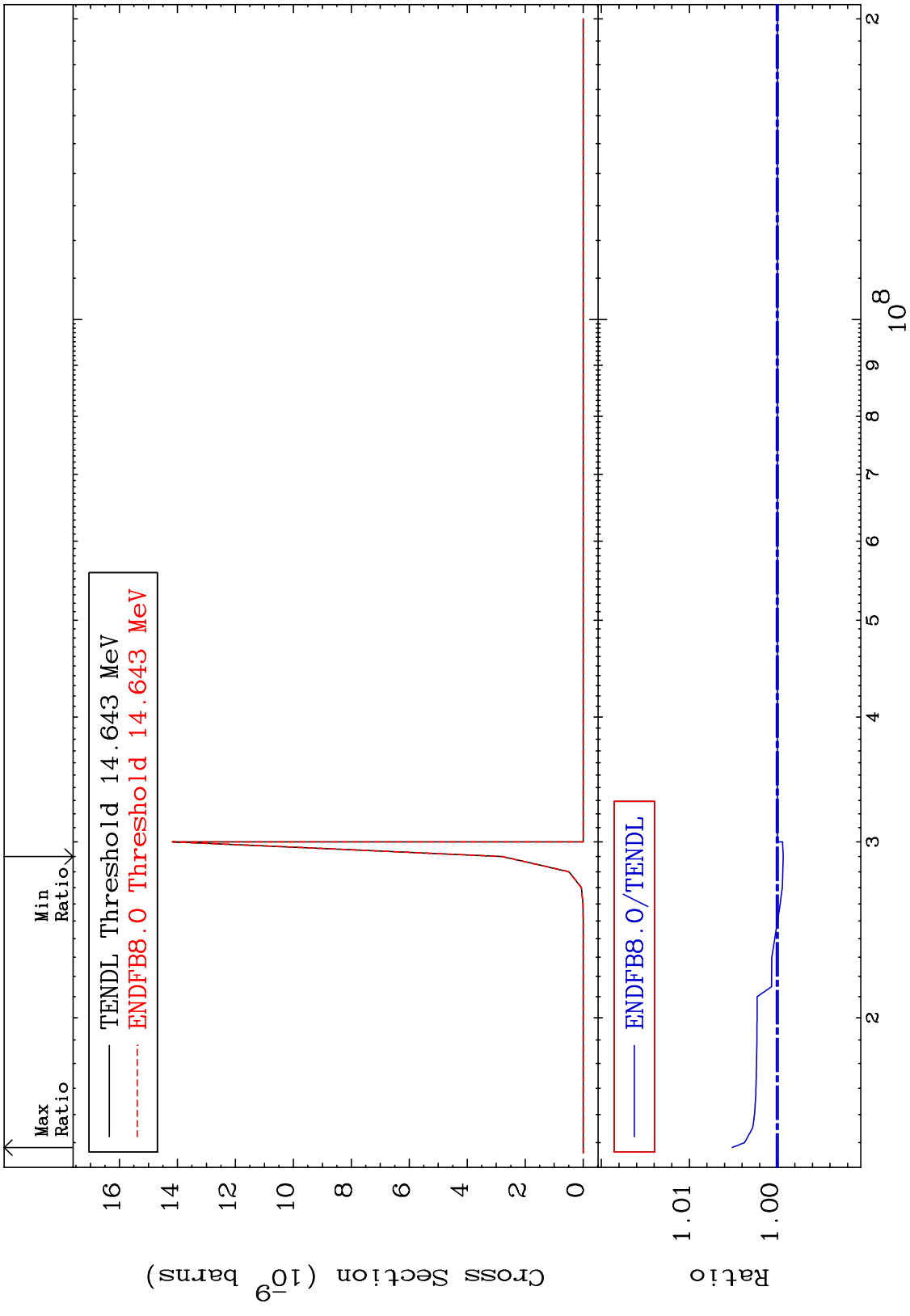
81-Tl-204  
-0.177 To 0.283 %



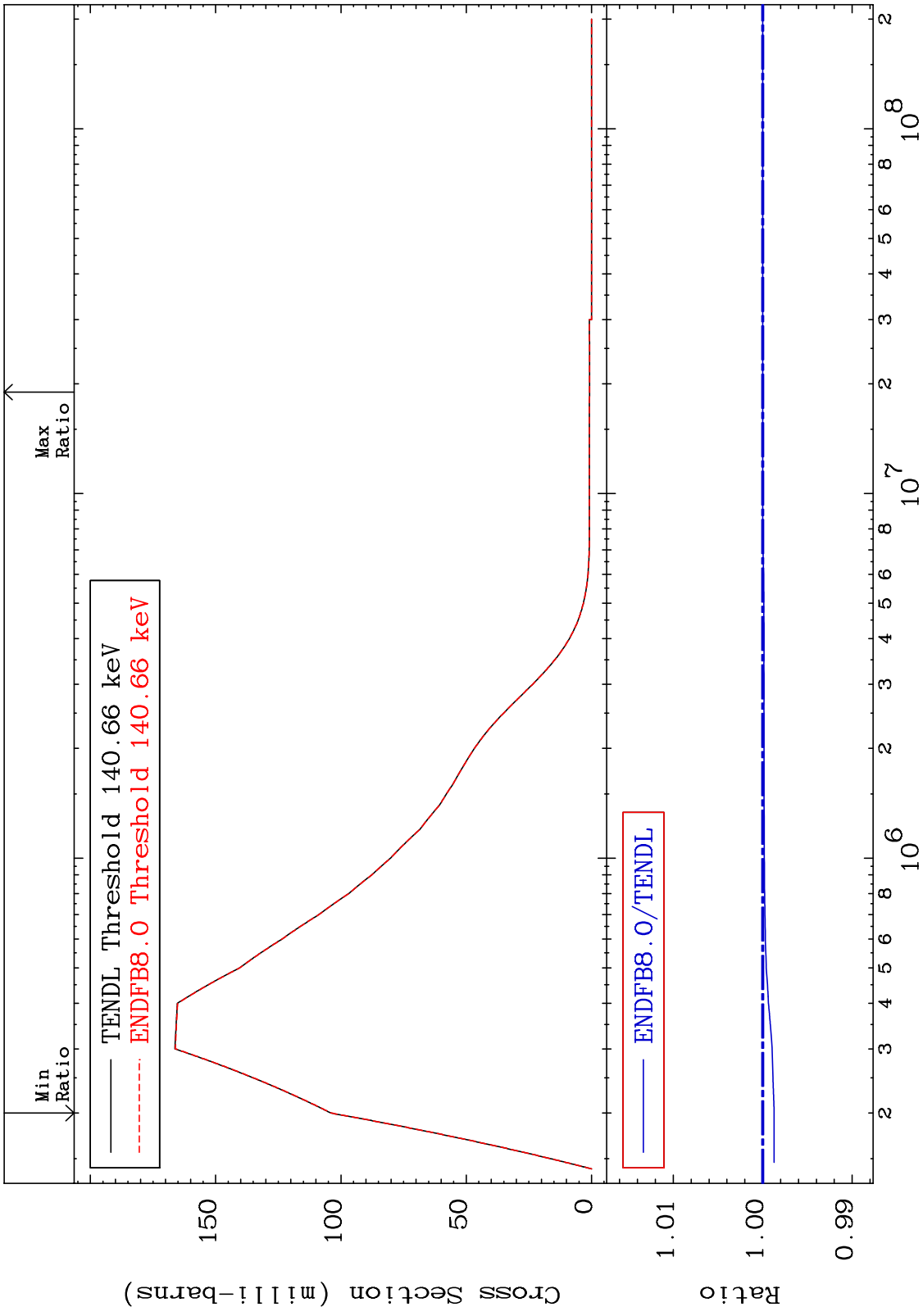
16

81-Tl-204

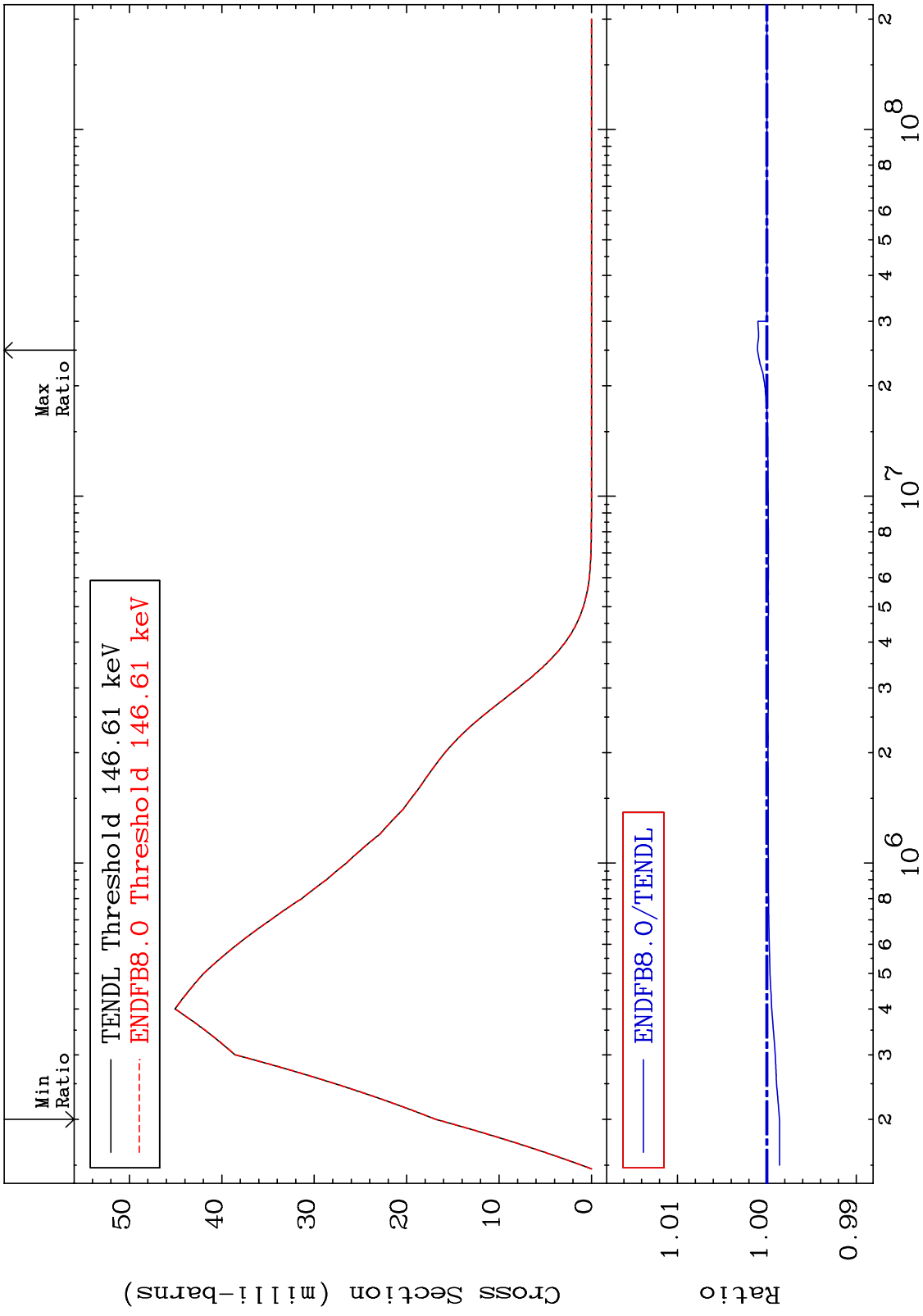
MAT 8128 (n,2n) p 81-Tl-204  
 Cross Section -0.067 To 0.514 %



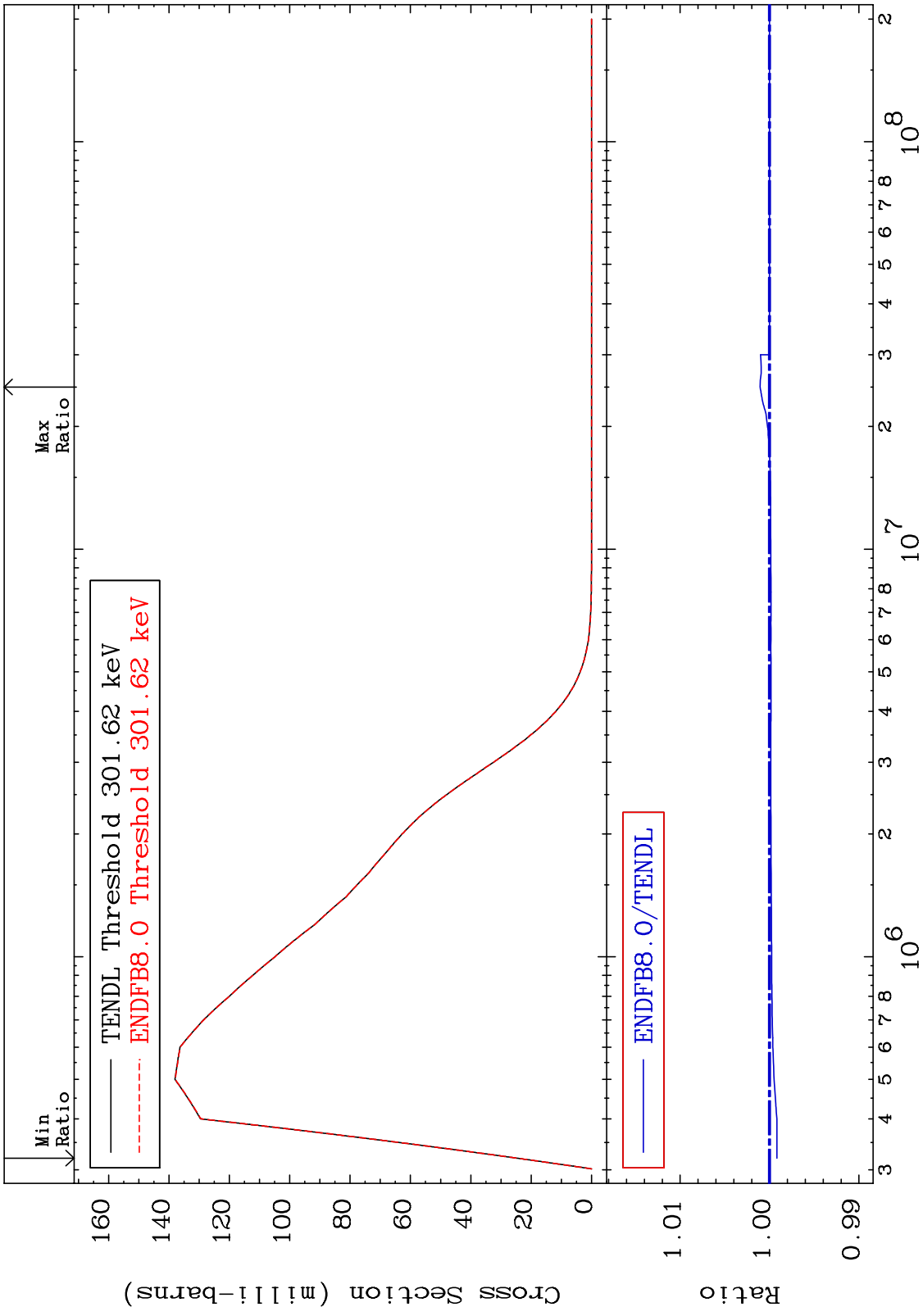
MAT 8128 MT= 51 (n,n') Level Cross Section 81-Tl-204 -0.128 To 0.000 %



MAT 8128 MT= 52 (n,n') Level Cross Section 81-Tl-204 -0.141 To 0.106 %

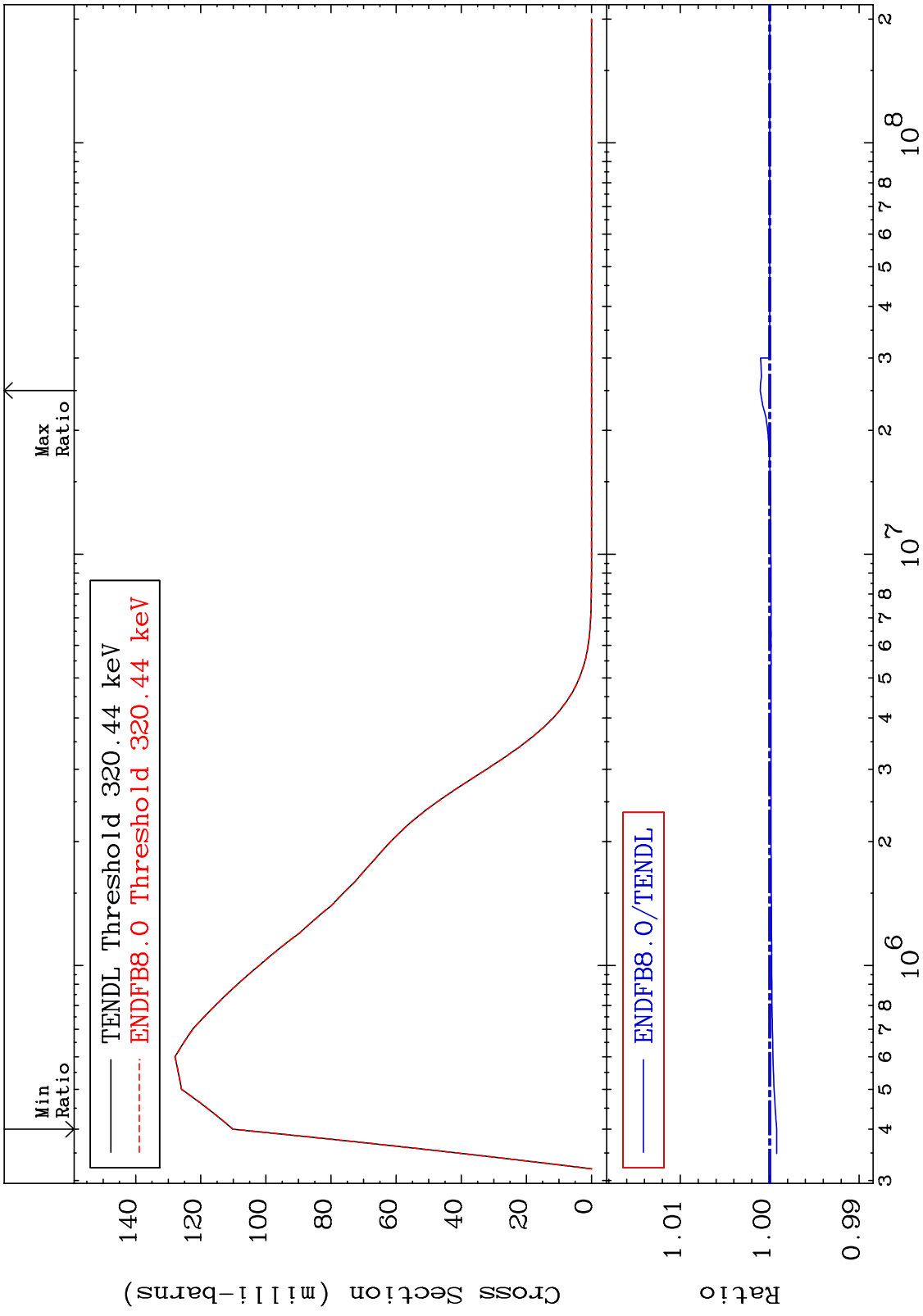


MAT 8128 MT= 53 (n,n') Level Cross Section 81-Tl-204 -0.081 To 0.106 %

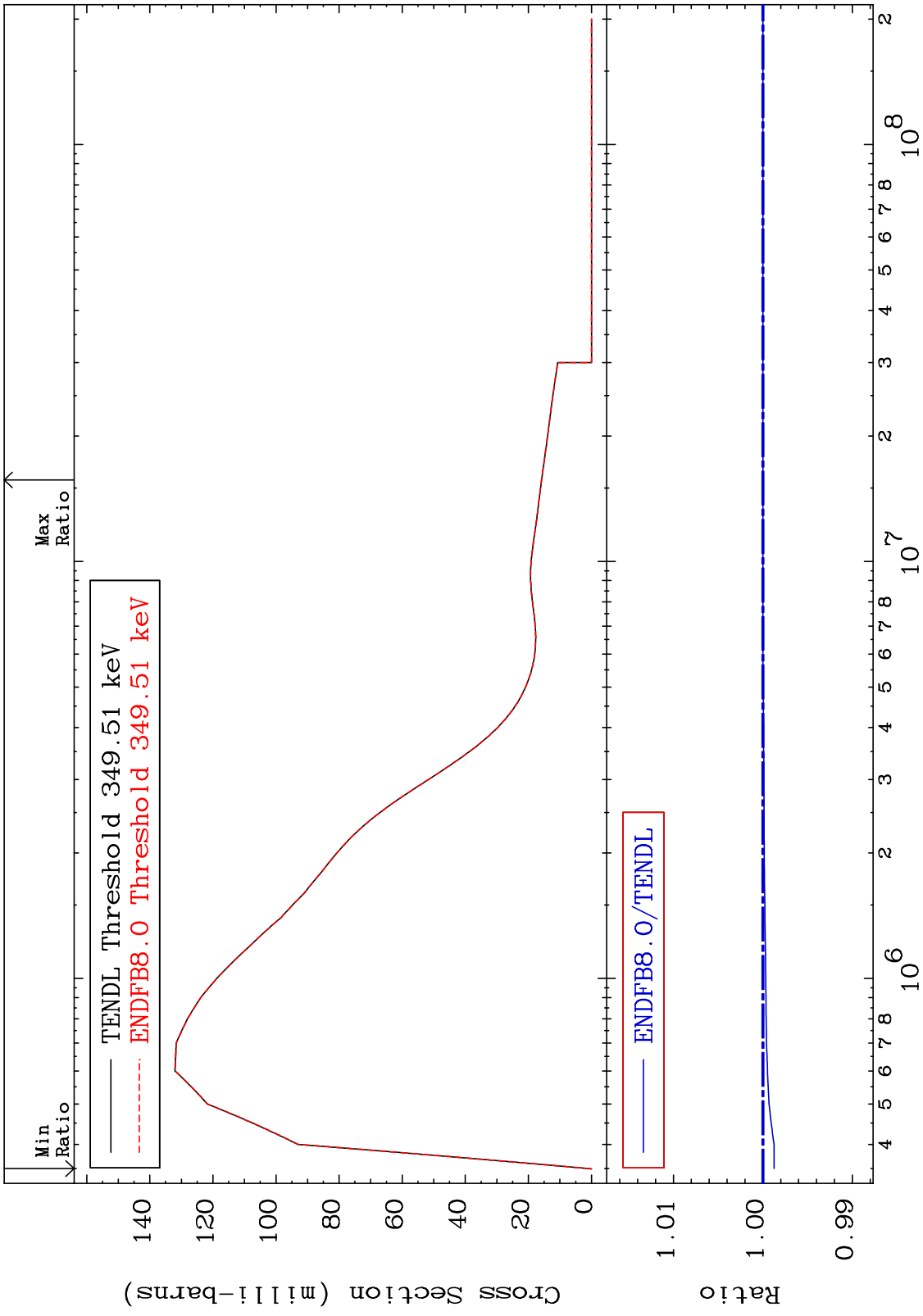


20 81-Tl-204

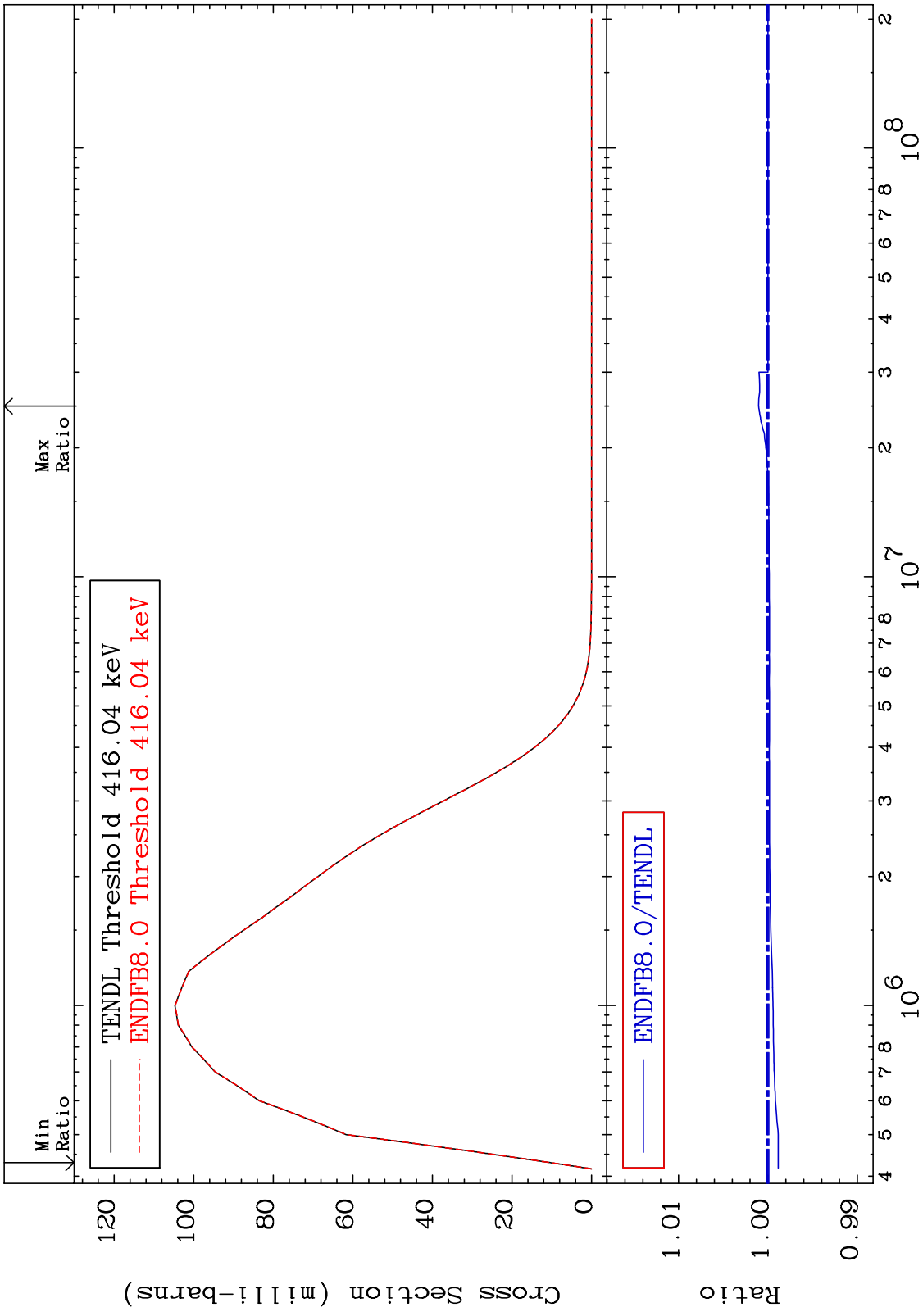
MAT 8128 MT= 54 (n,n') Level Cross Section 81-Tl-204 -0.078 To 0.105 %



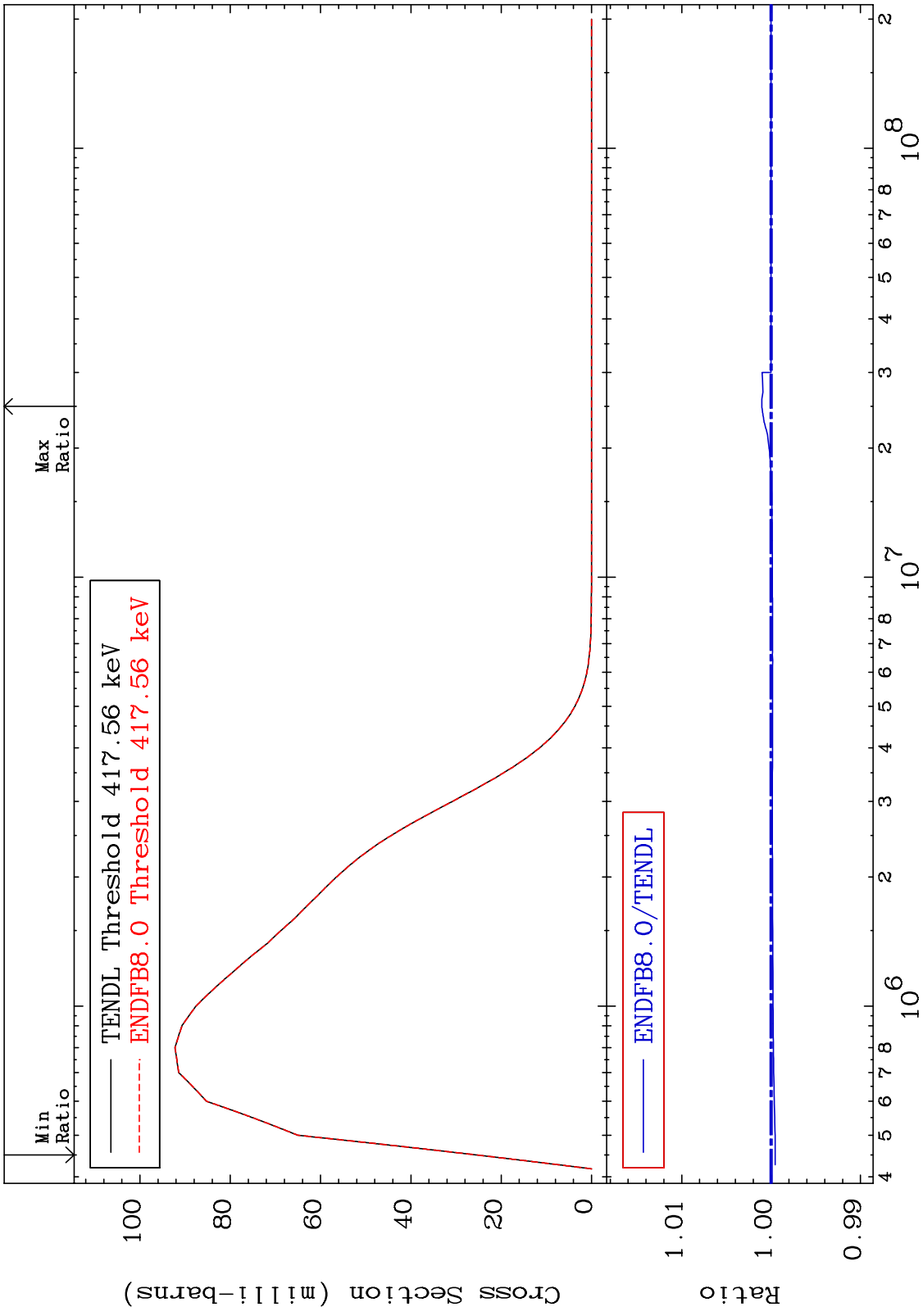
MAT 8128 MT= 55 (n,n') Level Cross Section -0.125 To 0.000 % 81-Tl-204



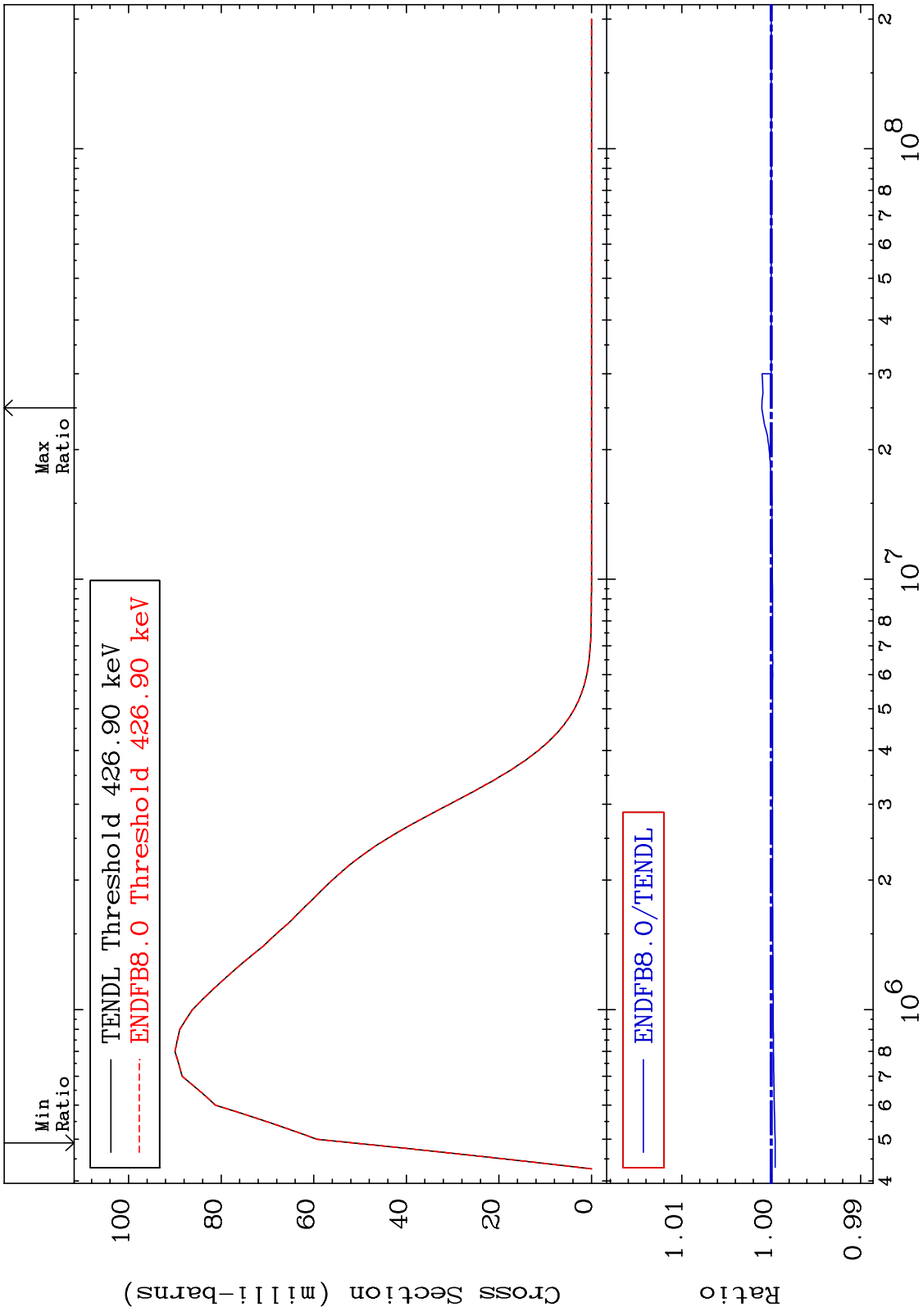
MAT 8128 MT= 56 (n,n') Level Cross Section -0.116 To 0.105 % 81-Tl-204



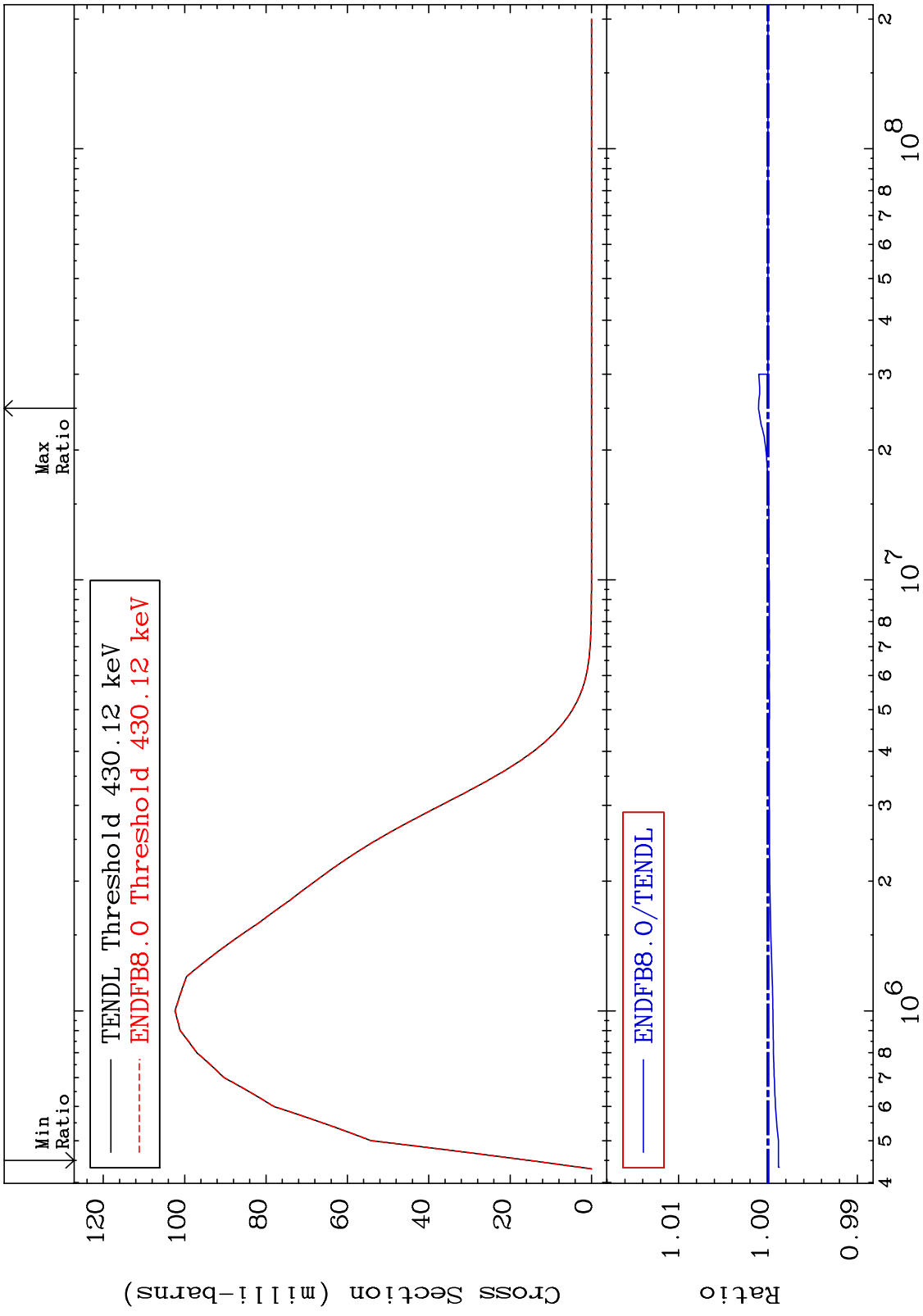
MAT 8128 MT= 57 (n,n') Level Cross Section 81-Tl-204 -0.045 To 0.105 %



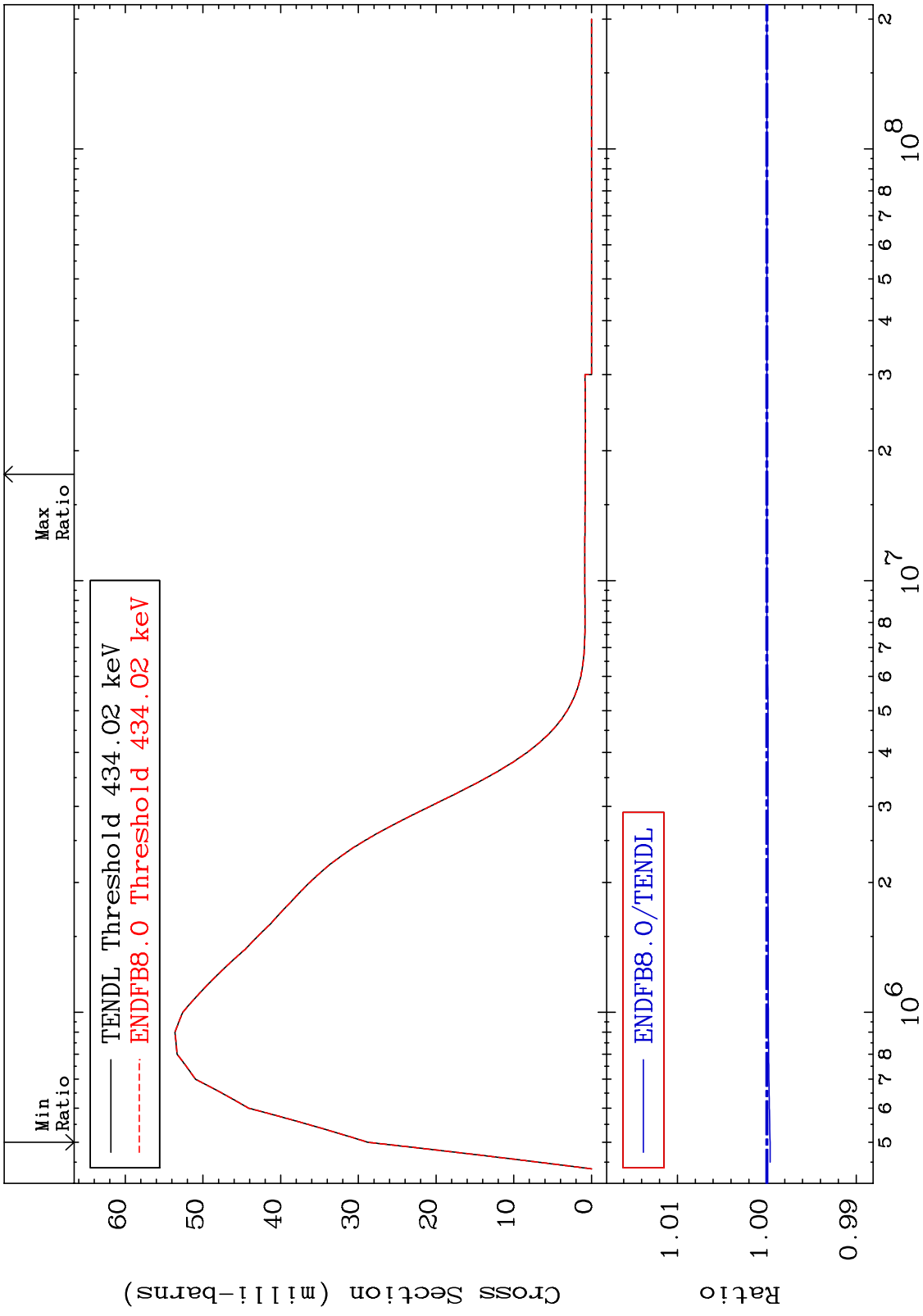
MAT 8128 MT= 58 (n,n') Level Cross Section 81-Tl-204 -0.045 To 0.106 %



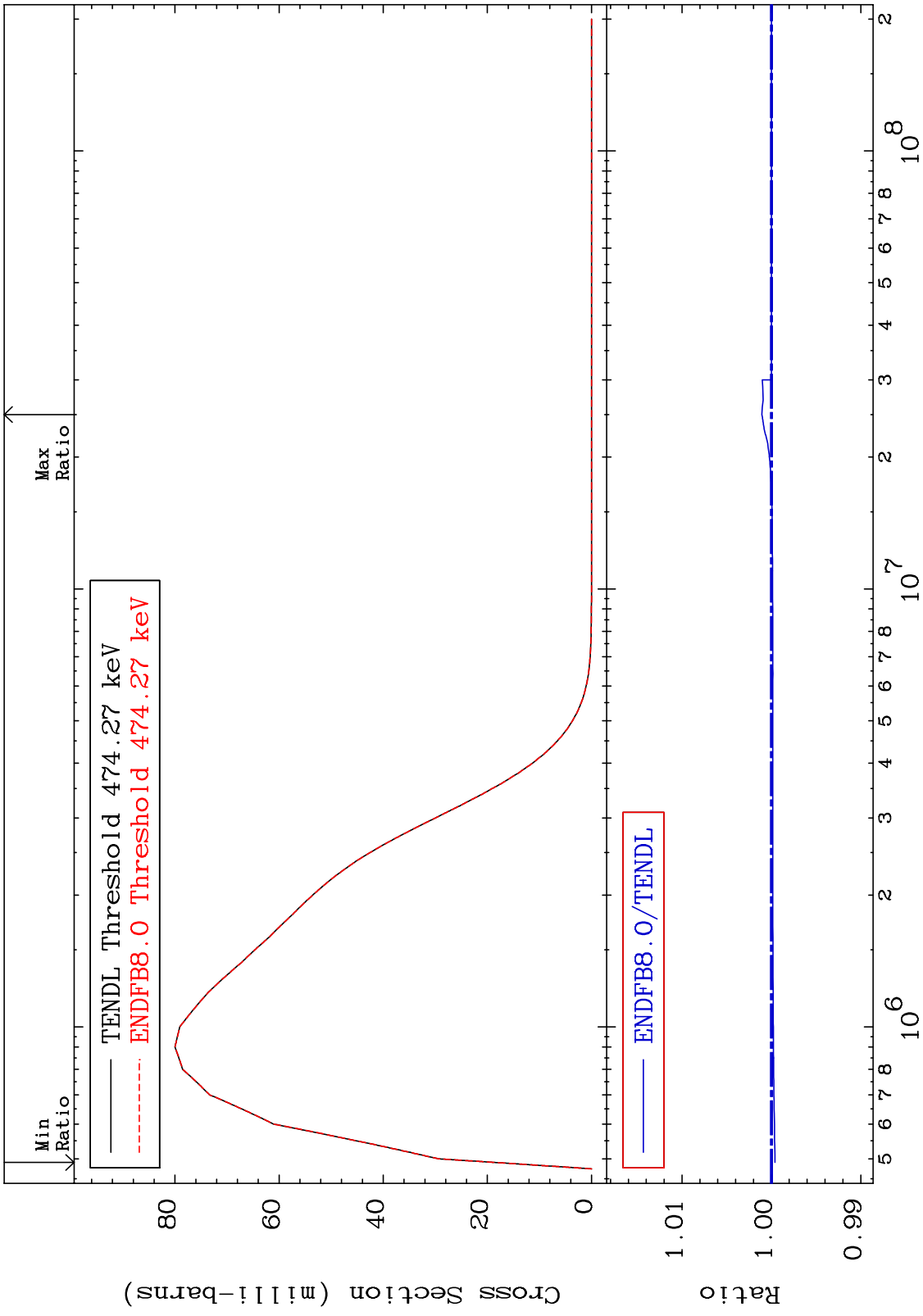
MAT 8128 MT= 59 (n,n') Level Cross Section 81-Tl-204 -0.117 To 0.105 %



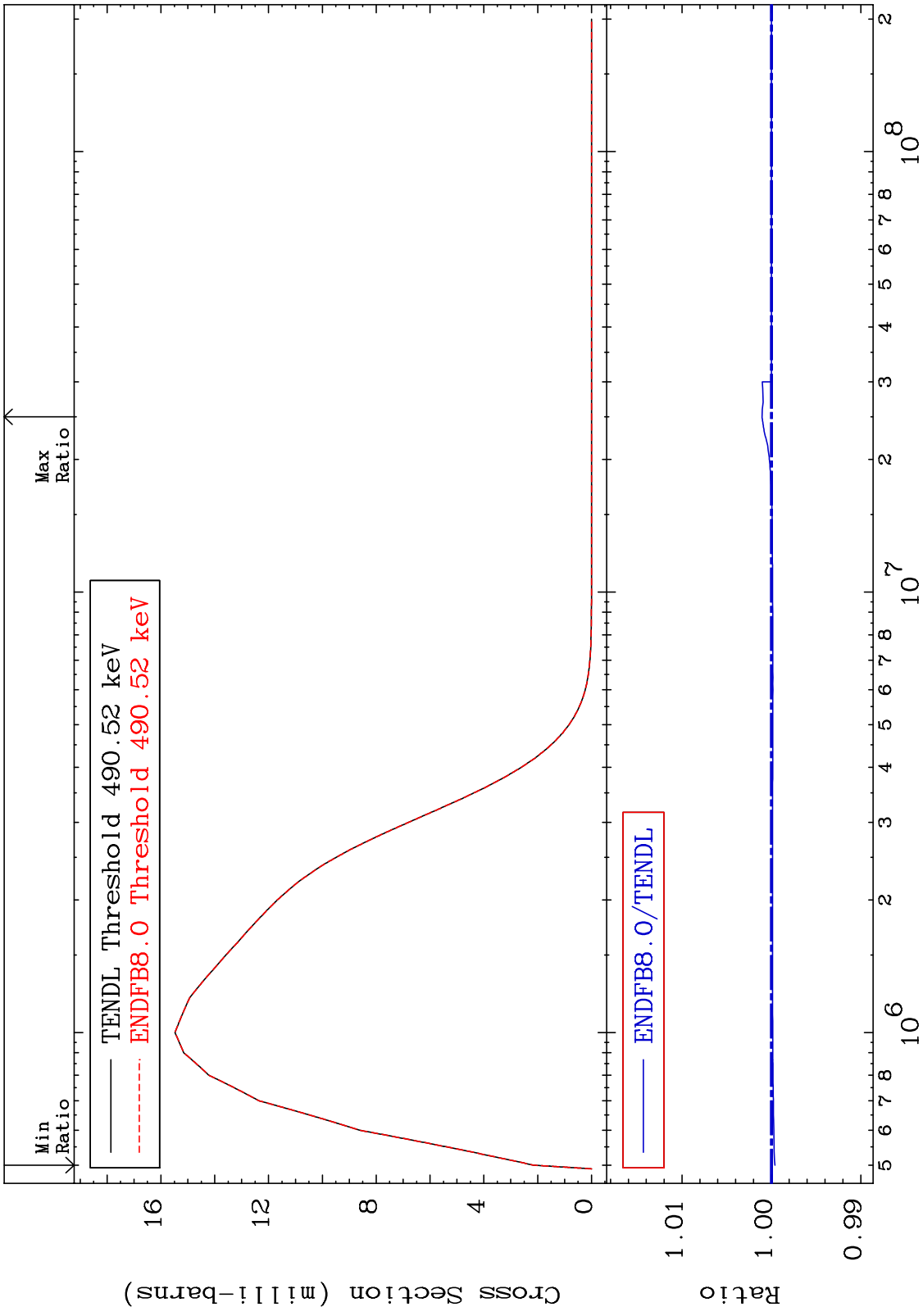
MAT 8128 MT= 60 (n,n') Level Cross Section 81-Tl-204 -0.036 To 0.000 %



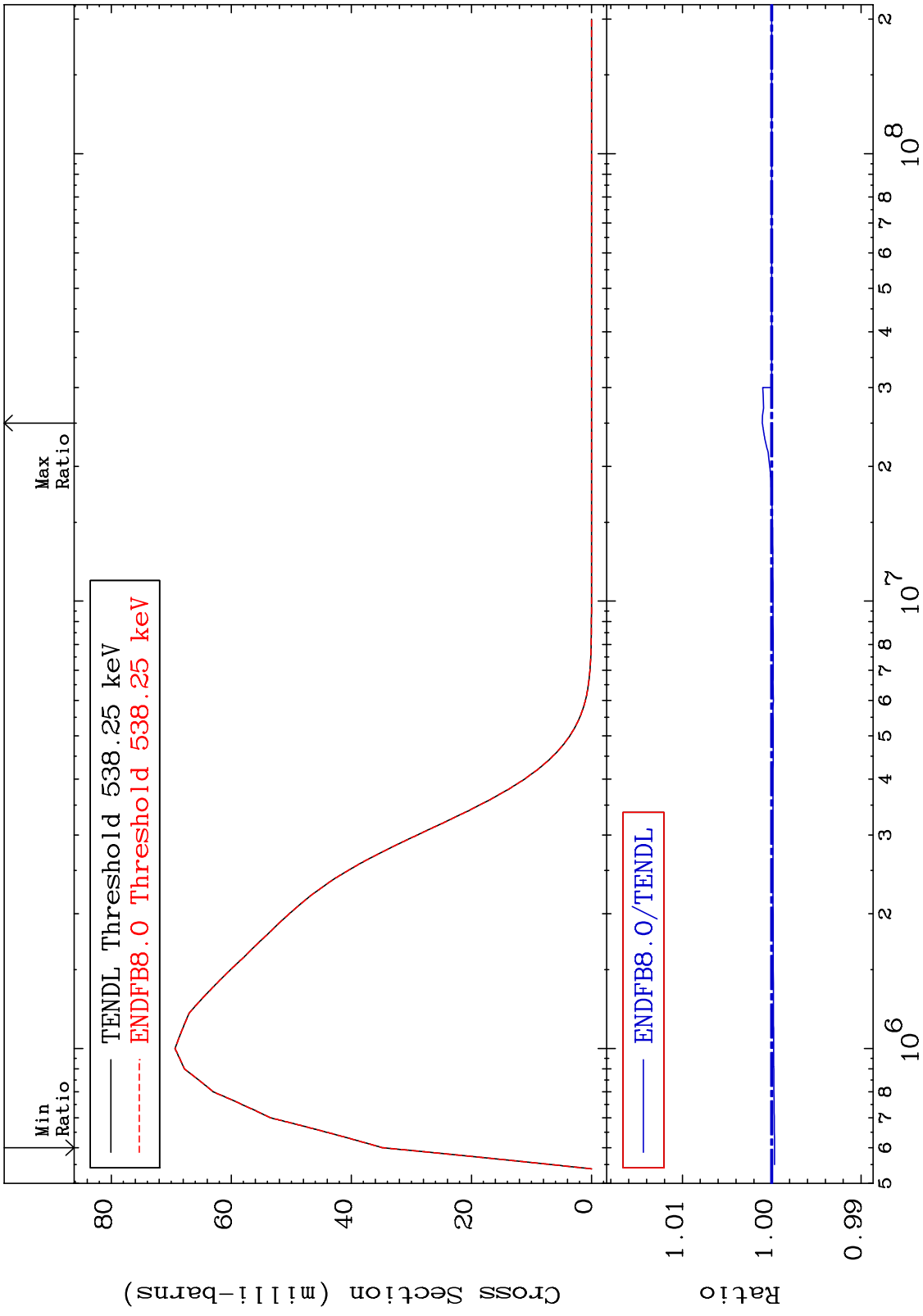
MAT 8128 MT= 61 (n,n') Level Cross Section 81-Tl-204 -0.040 To 0.106 %



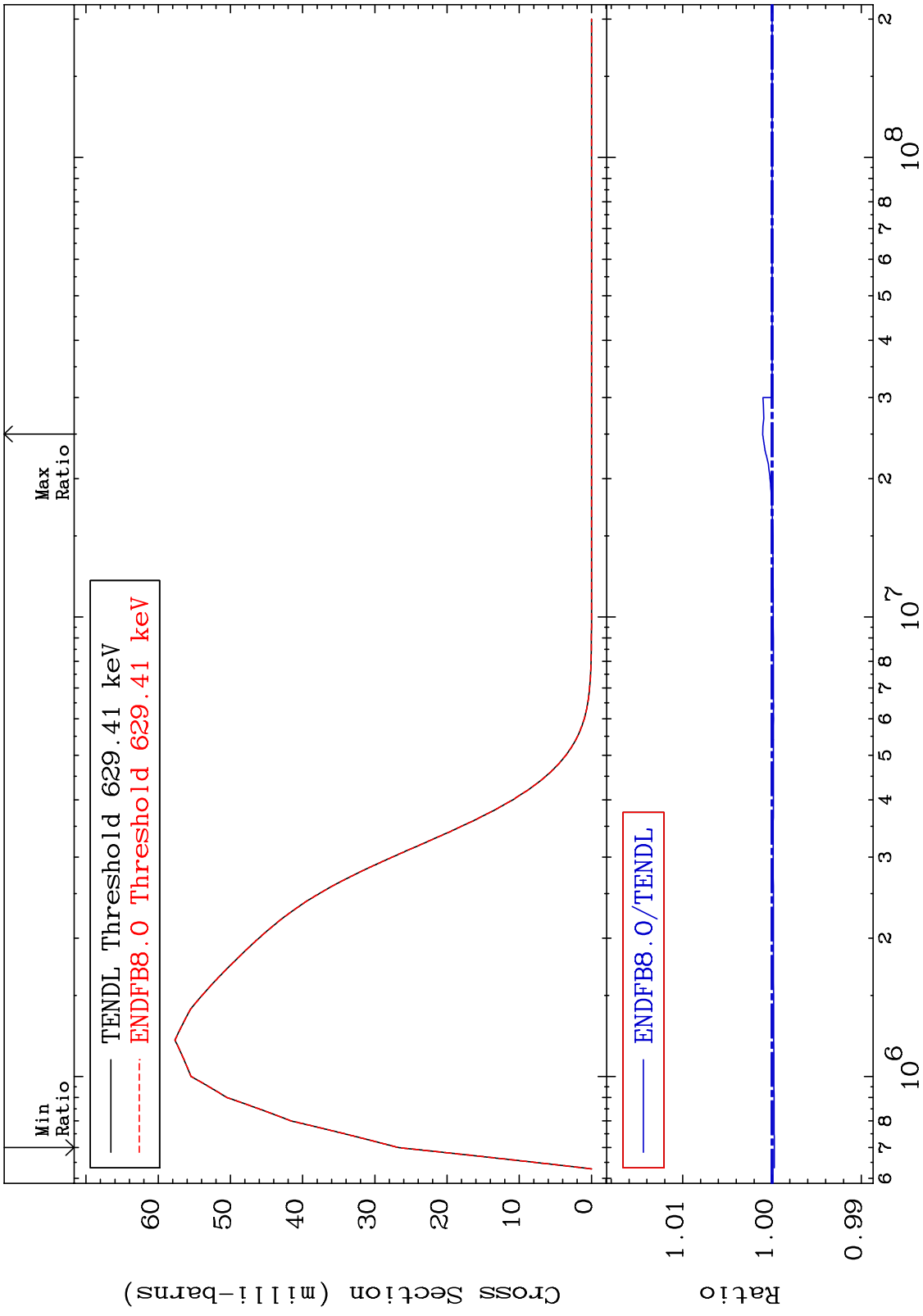
MAT 8128 MT= 62 (n,n') Level Cross Section 81-Tl-204 -0.039 To 0.105 %



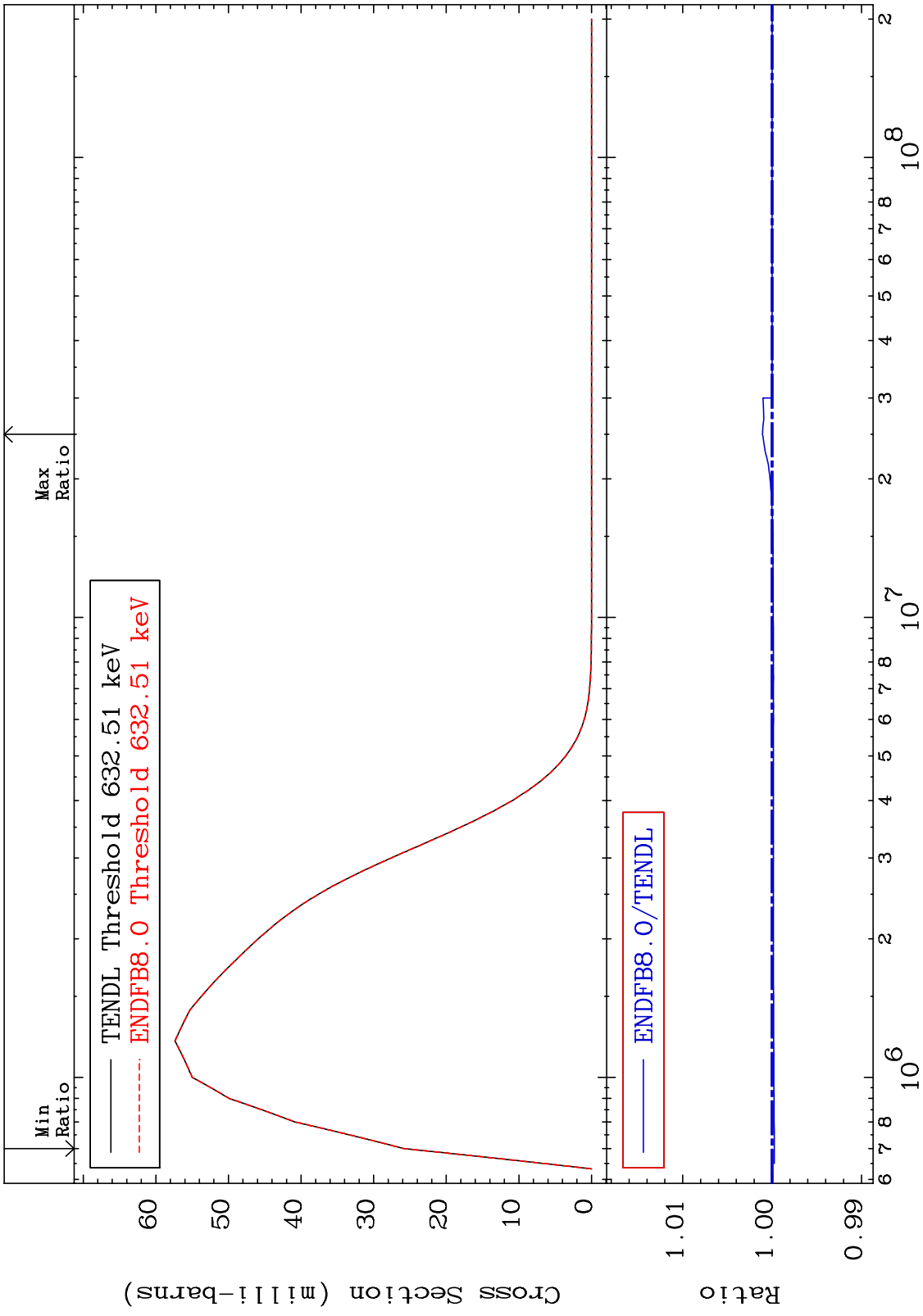
MAT 8128 MT= 63 (n,n') Level Cross Section 81-Tl-204 -0.032 To 0.105 %



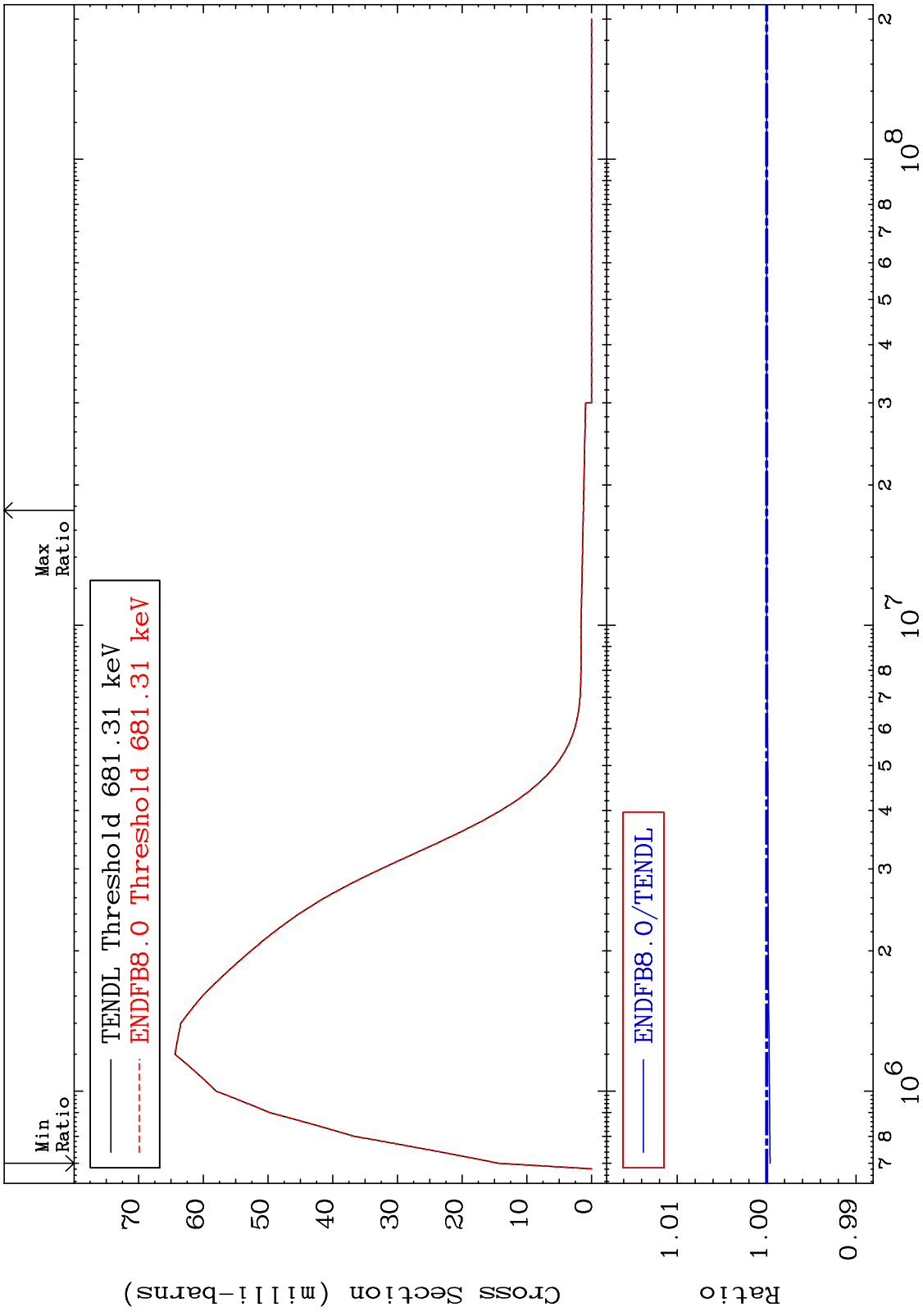
MAT 8128 MT= 64 (n,n') Level Cross Section 81-Tl-204 -0.025 To 0.105 %



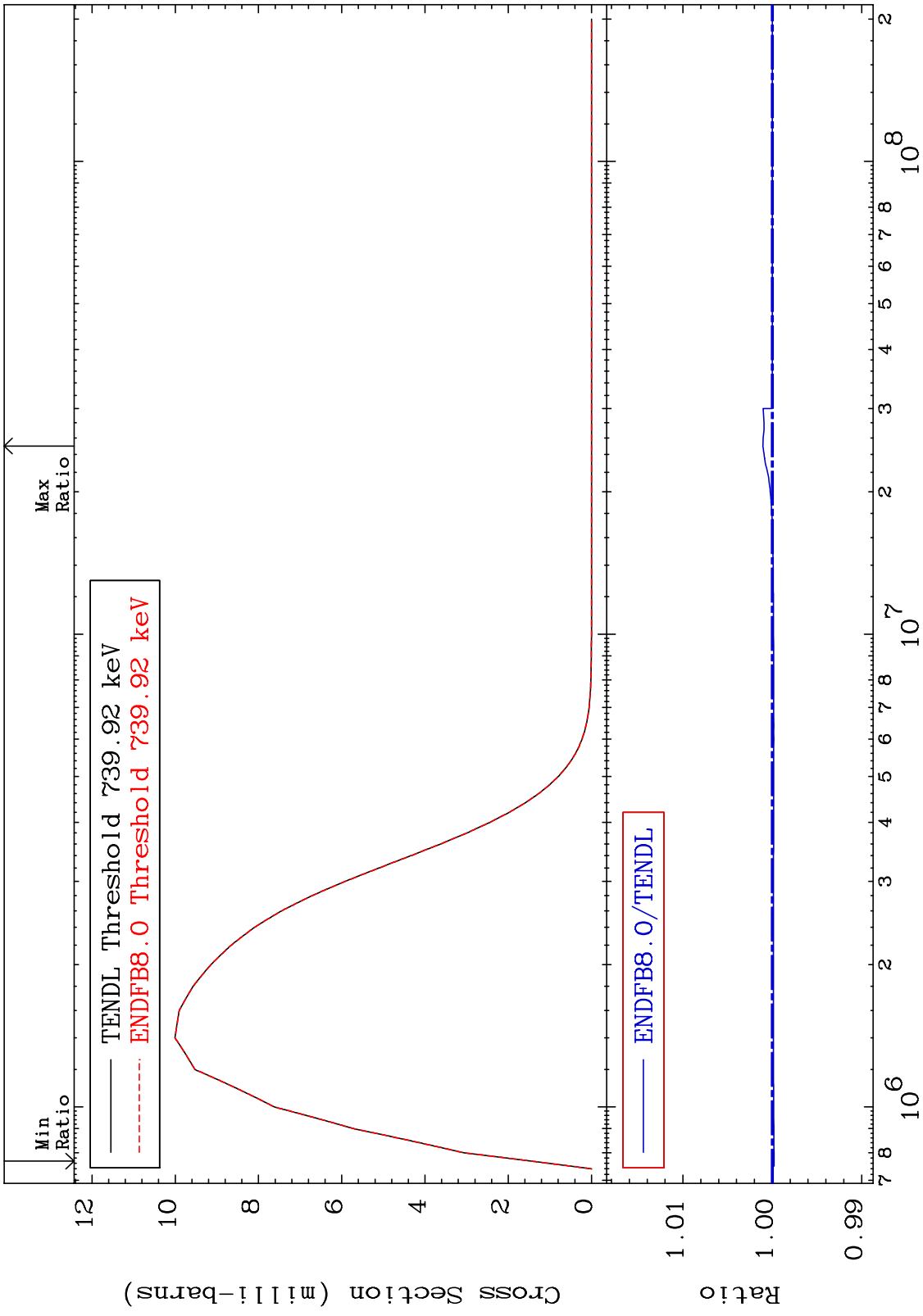
MAT 8128 MT= 65 (n,n') Level Cross Section 81-Tl-204 -0.025 To 0.106 %



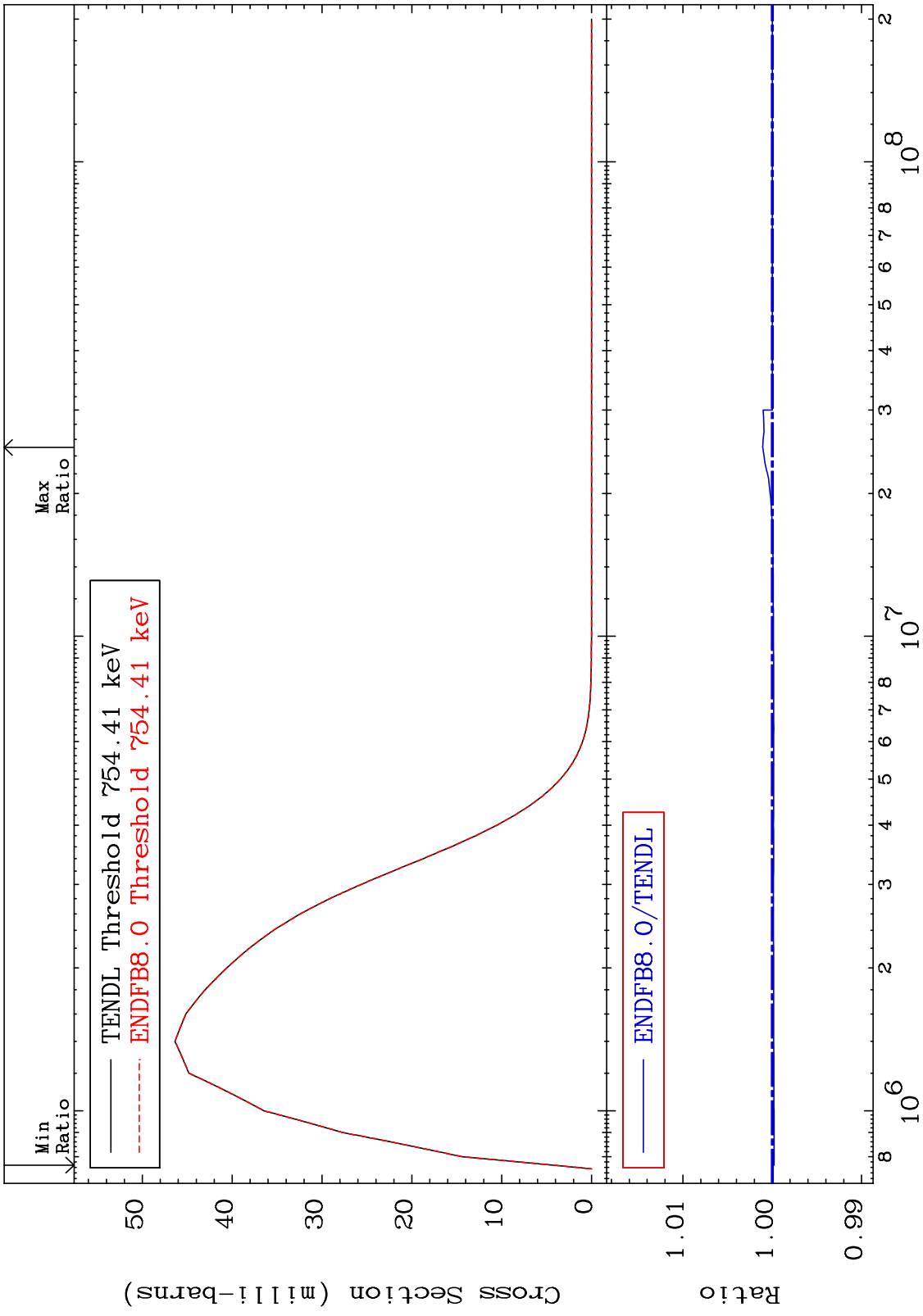
MAT 8128 MT= 66 (n,n') Level Cross Section 81-Tl-204 -0.039 To 0.000 %



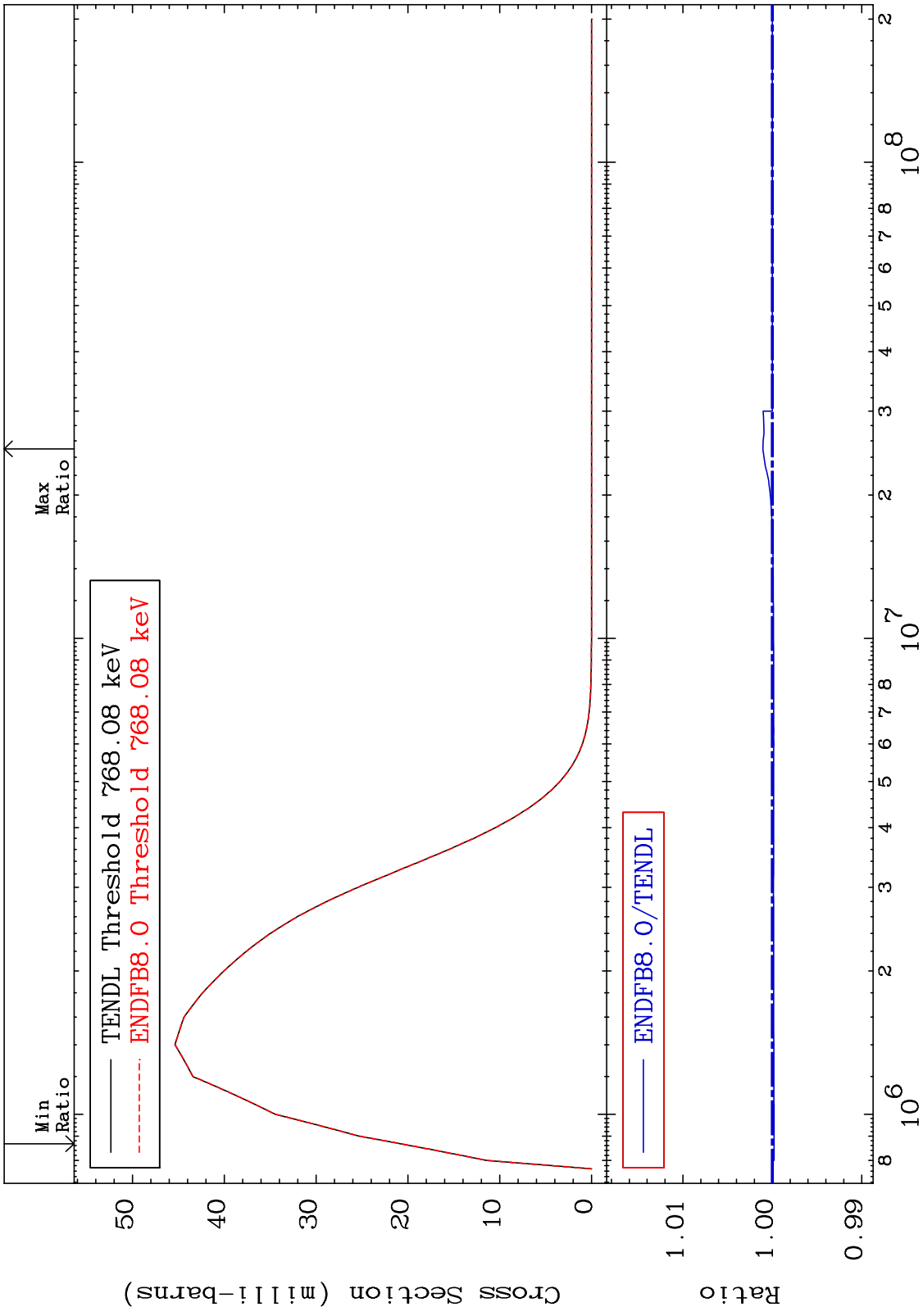
MAT 8128 MT= 67 (n,n') Level Cross Section 81-Tl-204 -0.019 To 0.106 %



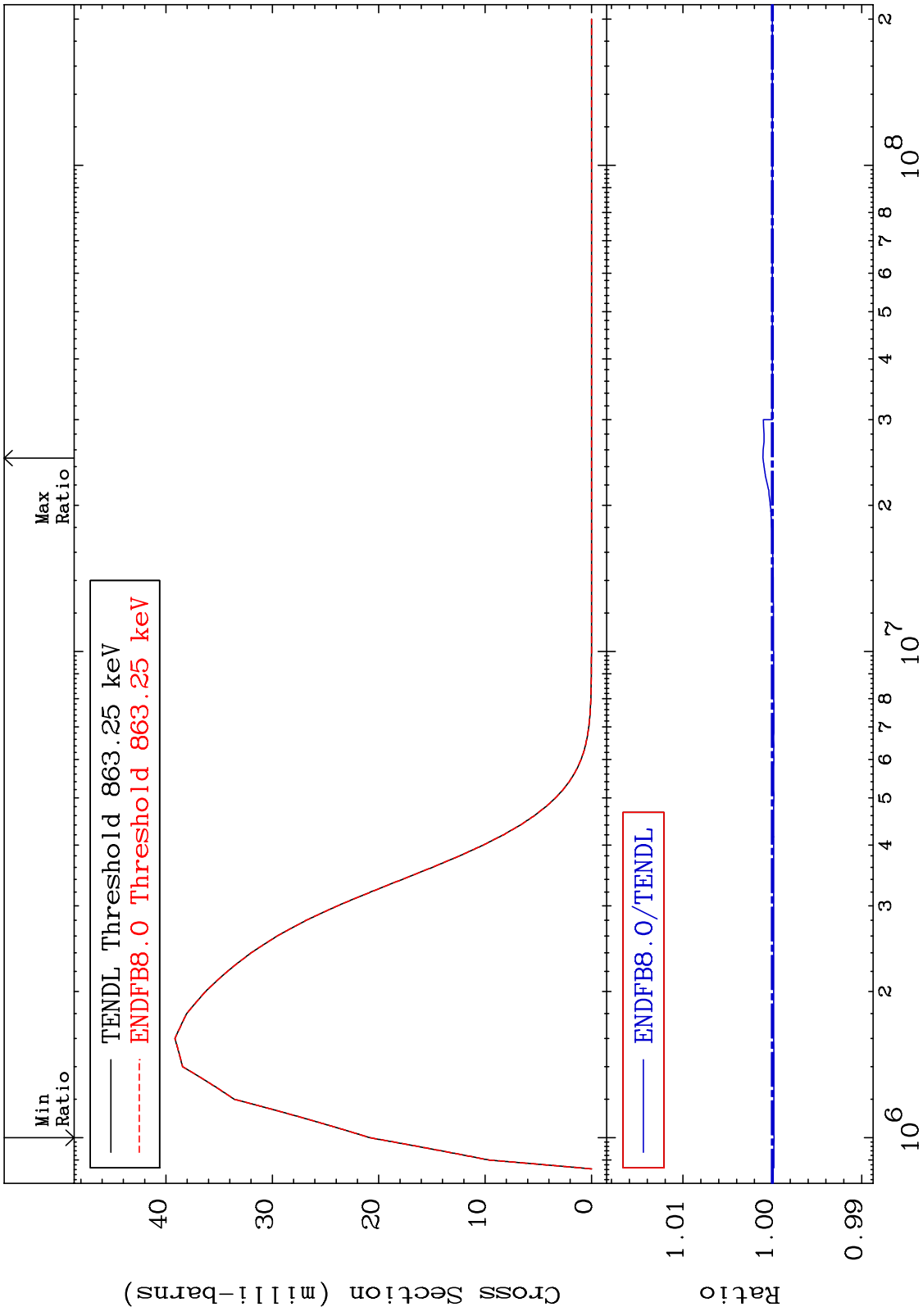
MAT 8128 MT= 68 (n,n') Level Cross Section 81-Tl-204 -0.021 To 0.106 %



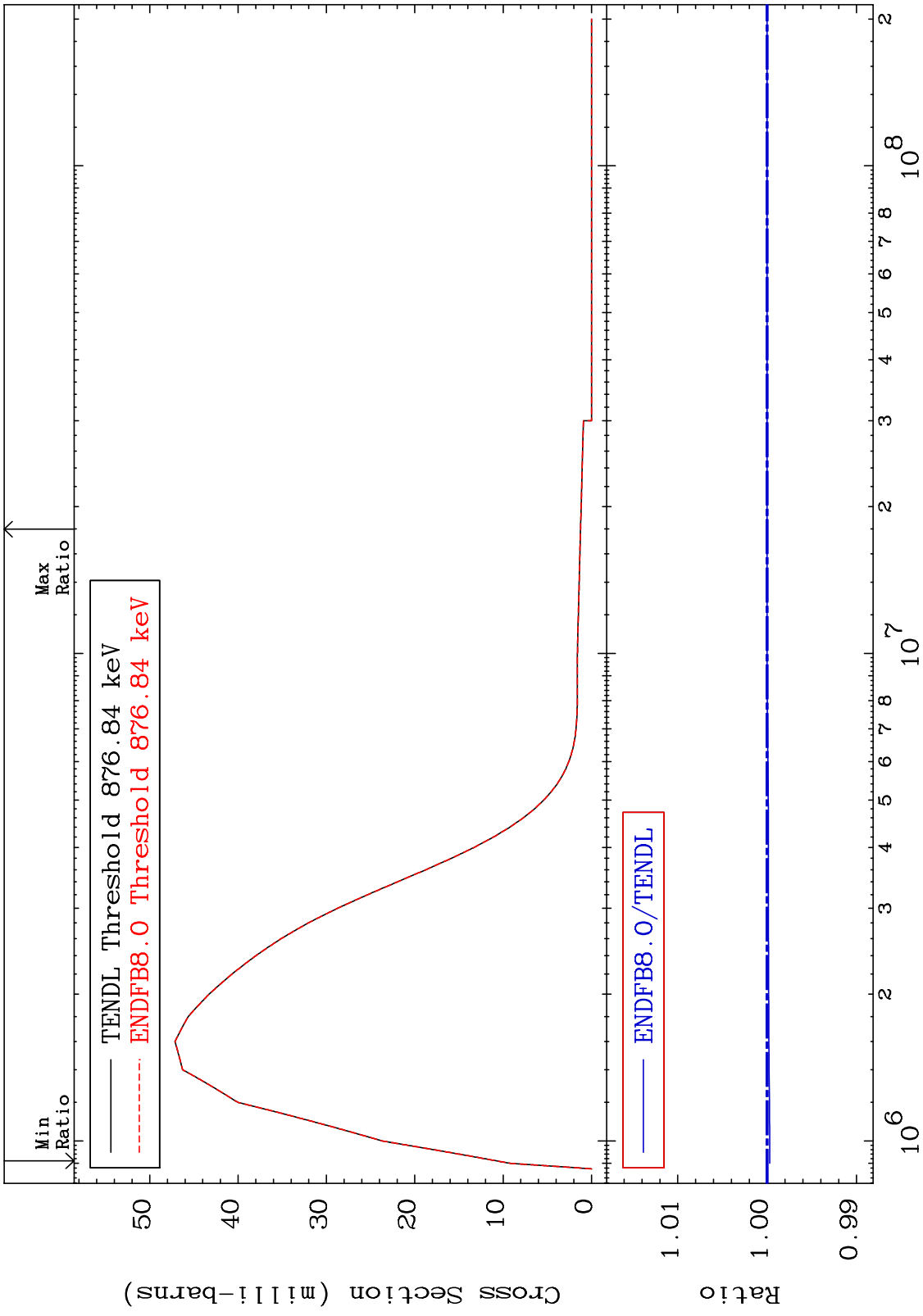
MAT 8128 MT= 69 (n,n') Level Cross Section 81-Tl-204 -0.020 To 0.106 %



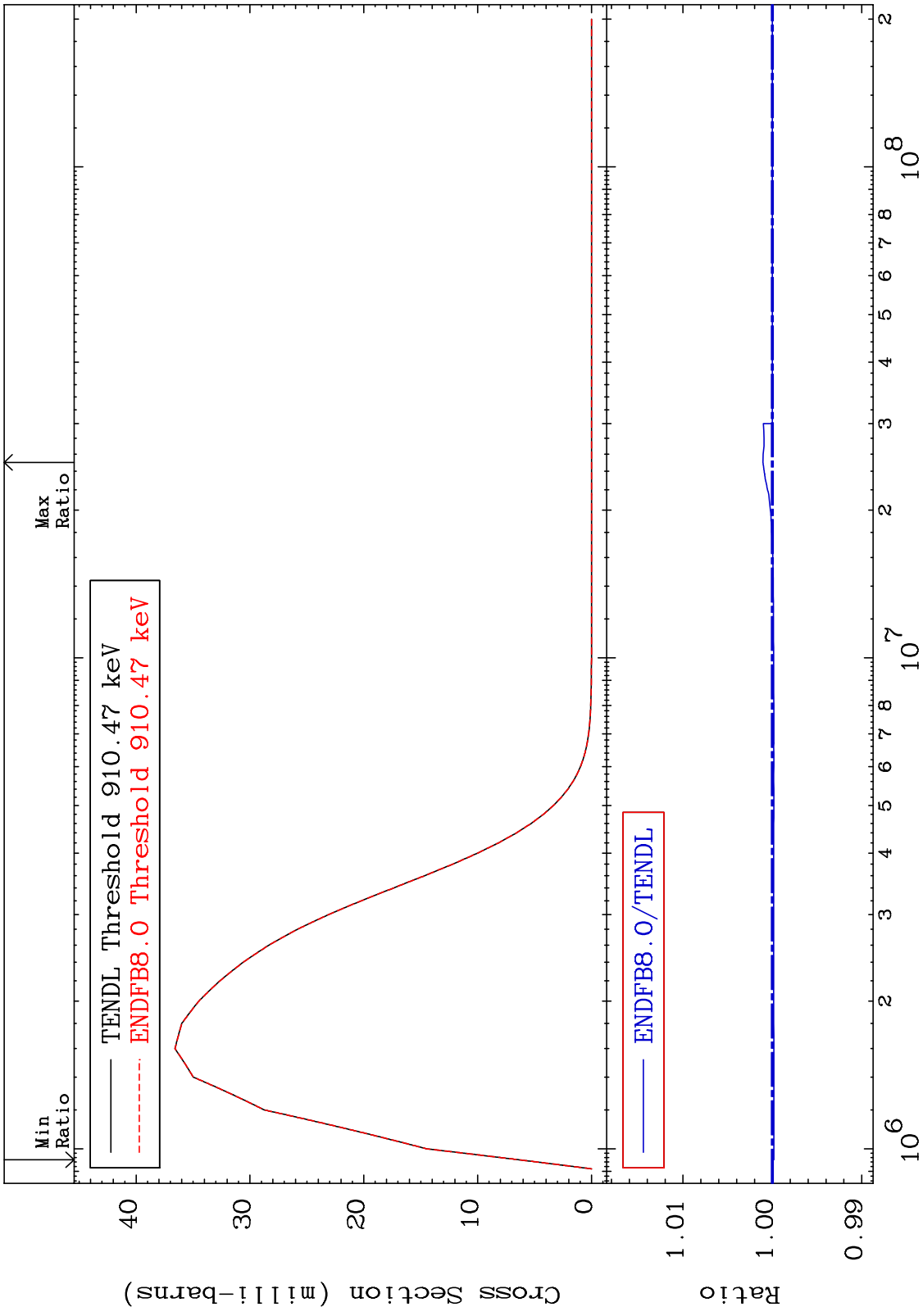
MAT 8128 MT= 70 (n,n') Level Cross Section 81-Tl-204 -0.018 To 0.105 %



MAT 8128 MT= 71 (n,n') Level Cross Section 81-Tl-204 -0.029 To 0.000 %

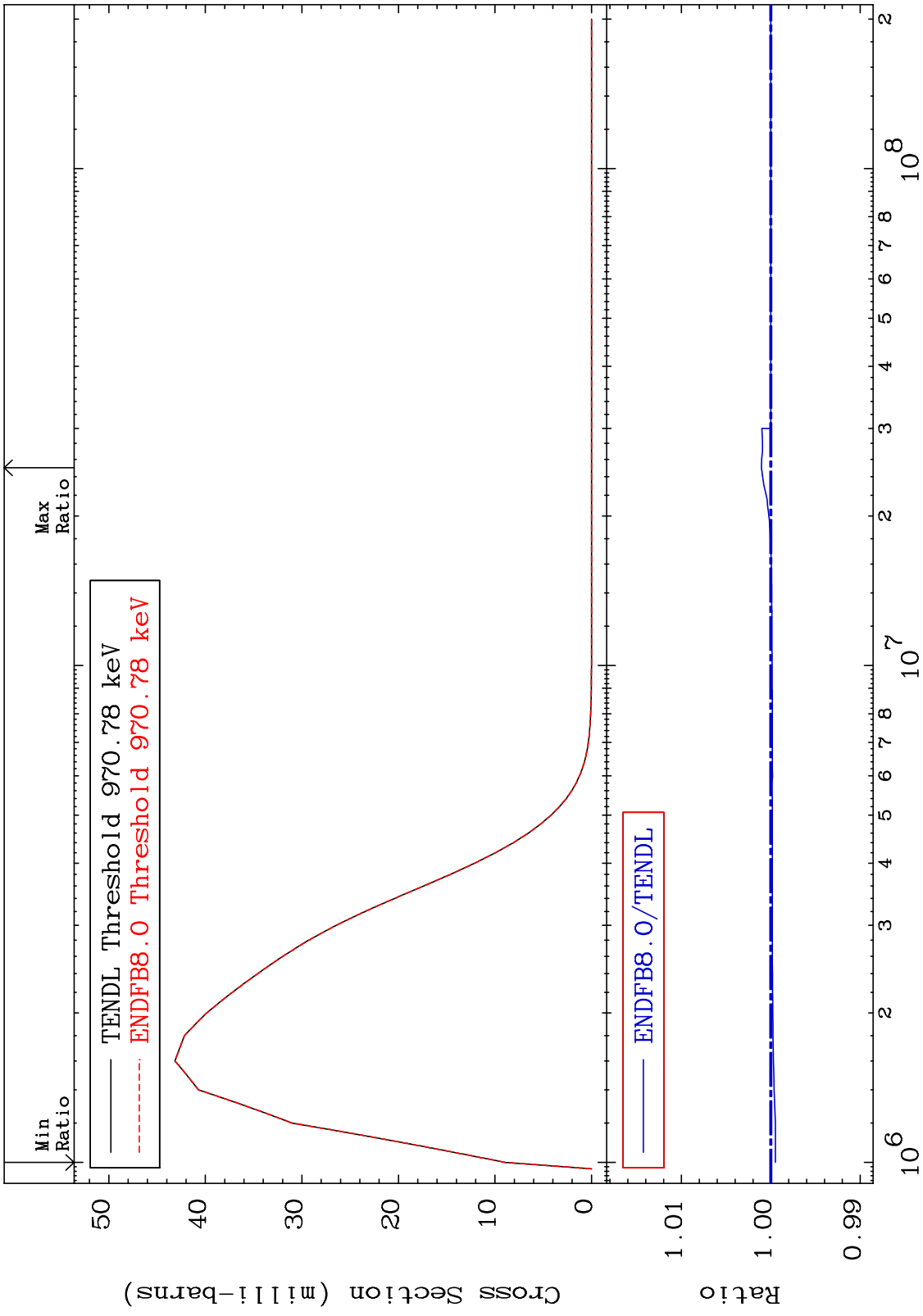


MAT 8128 MT= 72 (n,n') Level Cross Section 81-Tl-204 -0.017 To 0.105 %



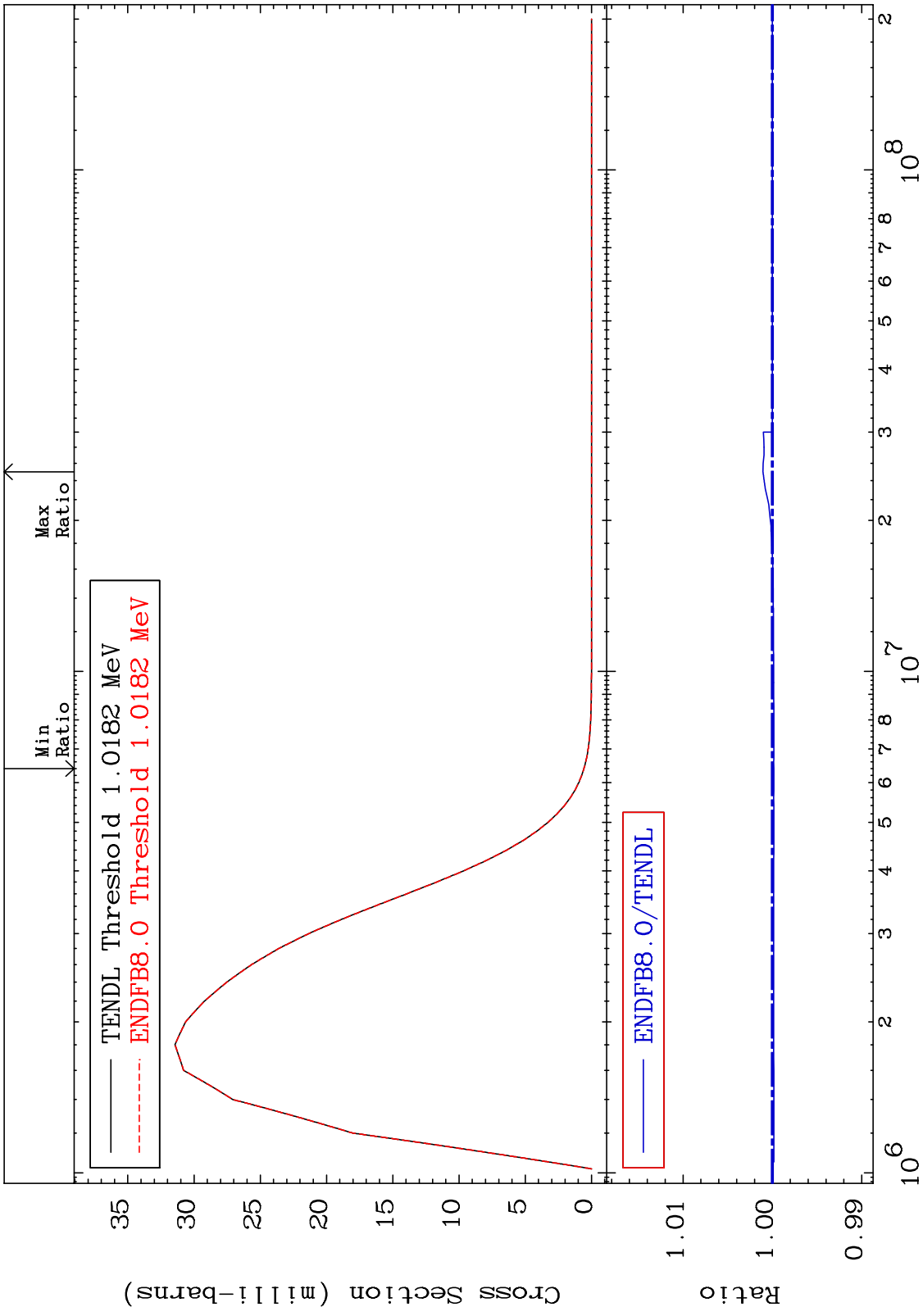
39 Incident Energy (eV) 81-Tl-204

MAT 8128 MT= 73 (n,n') Level Cross Section 81-Tl-204 -0.052 To 0.106 %



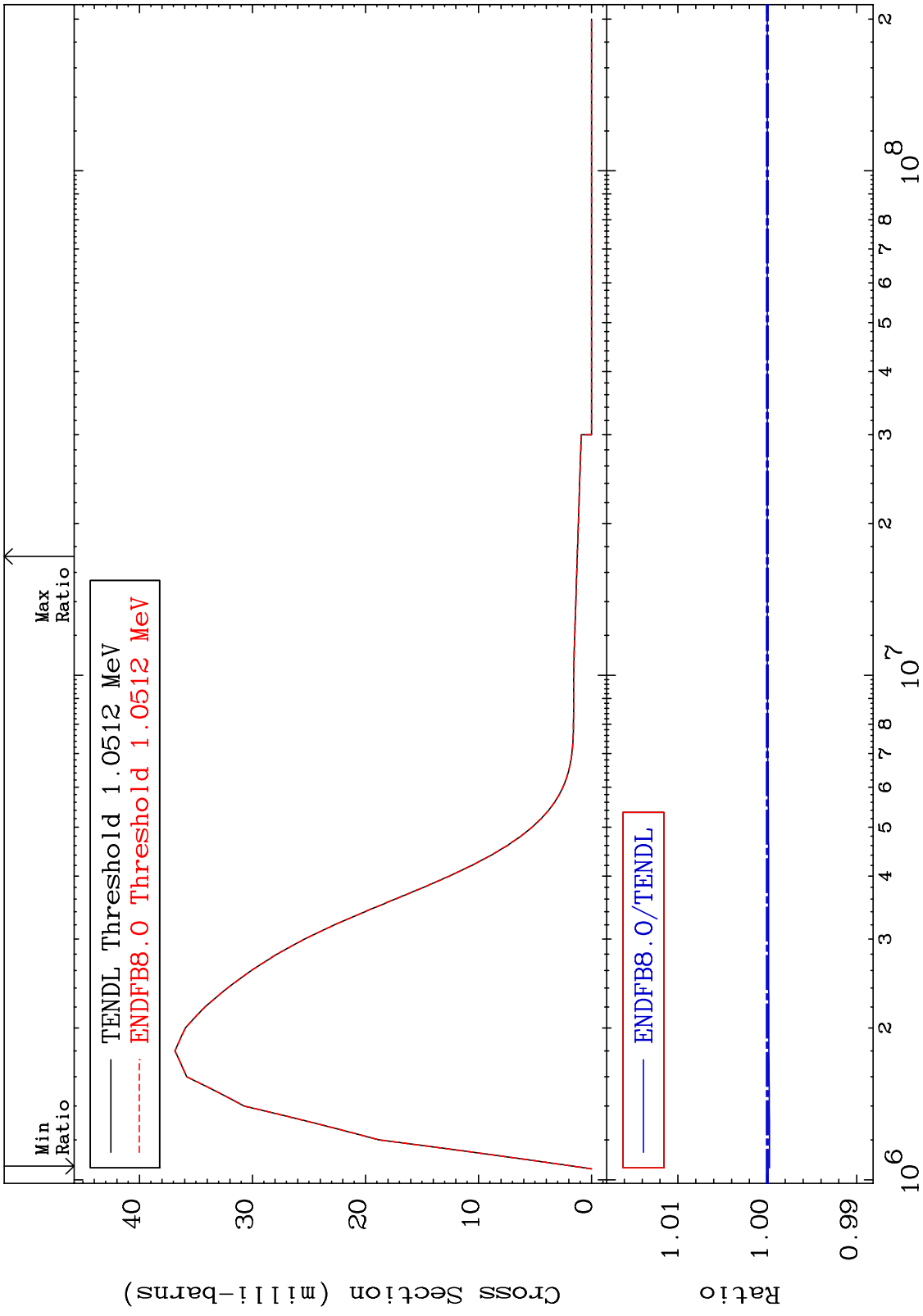
81-Tl-204

MAT 8128 MT= 74 (n,n') Level Cross Section 81-Tl-204 -0.017 To 0.106 %



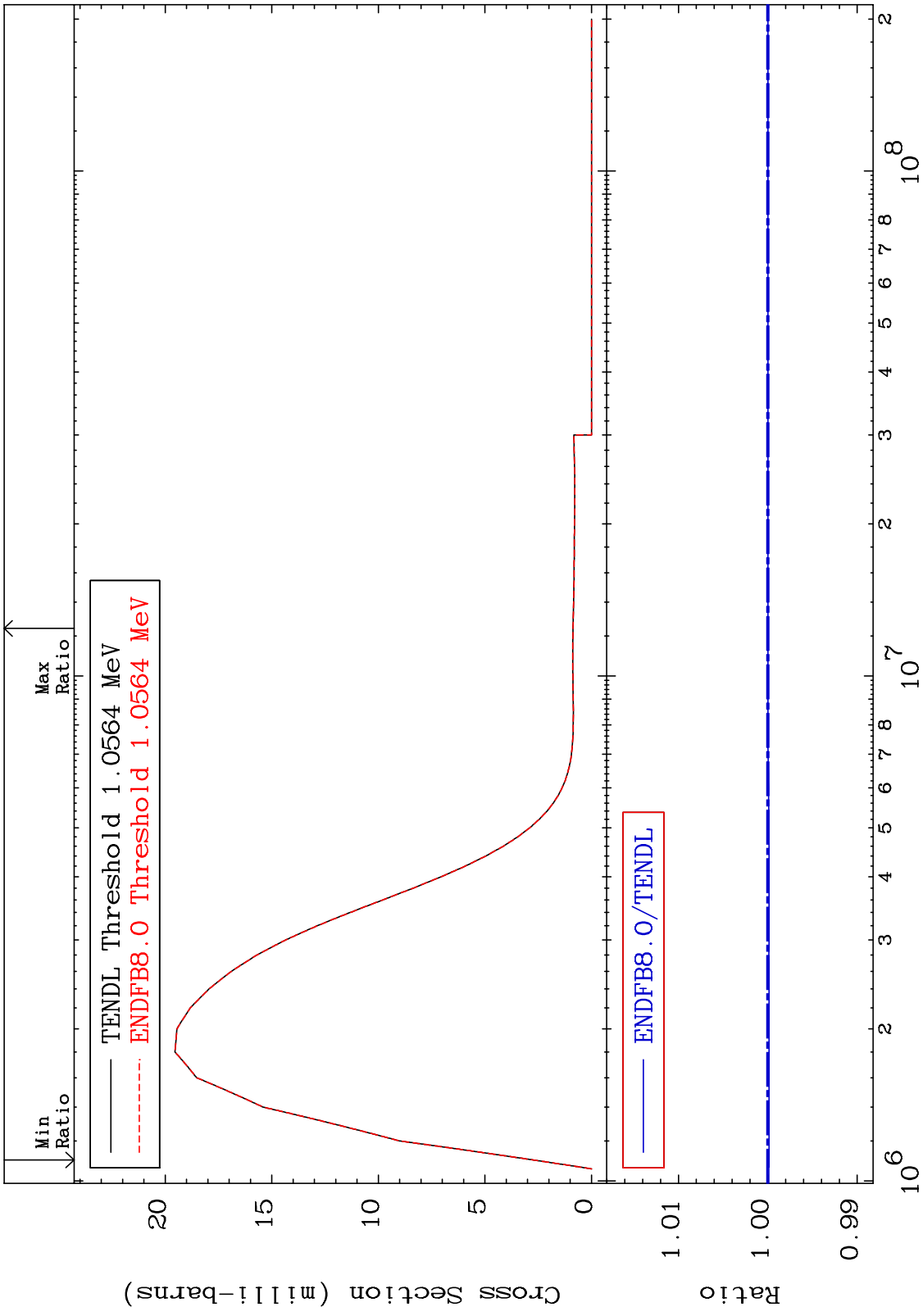
41 Incident Energy (eV) 81-Tl-204

MAT 8128 MT= 75 (n,n') Level Cross Section 81-Tl-204 -0.024 To 0.000 %

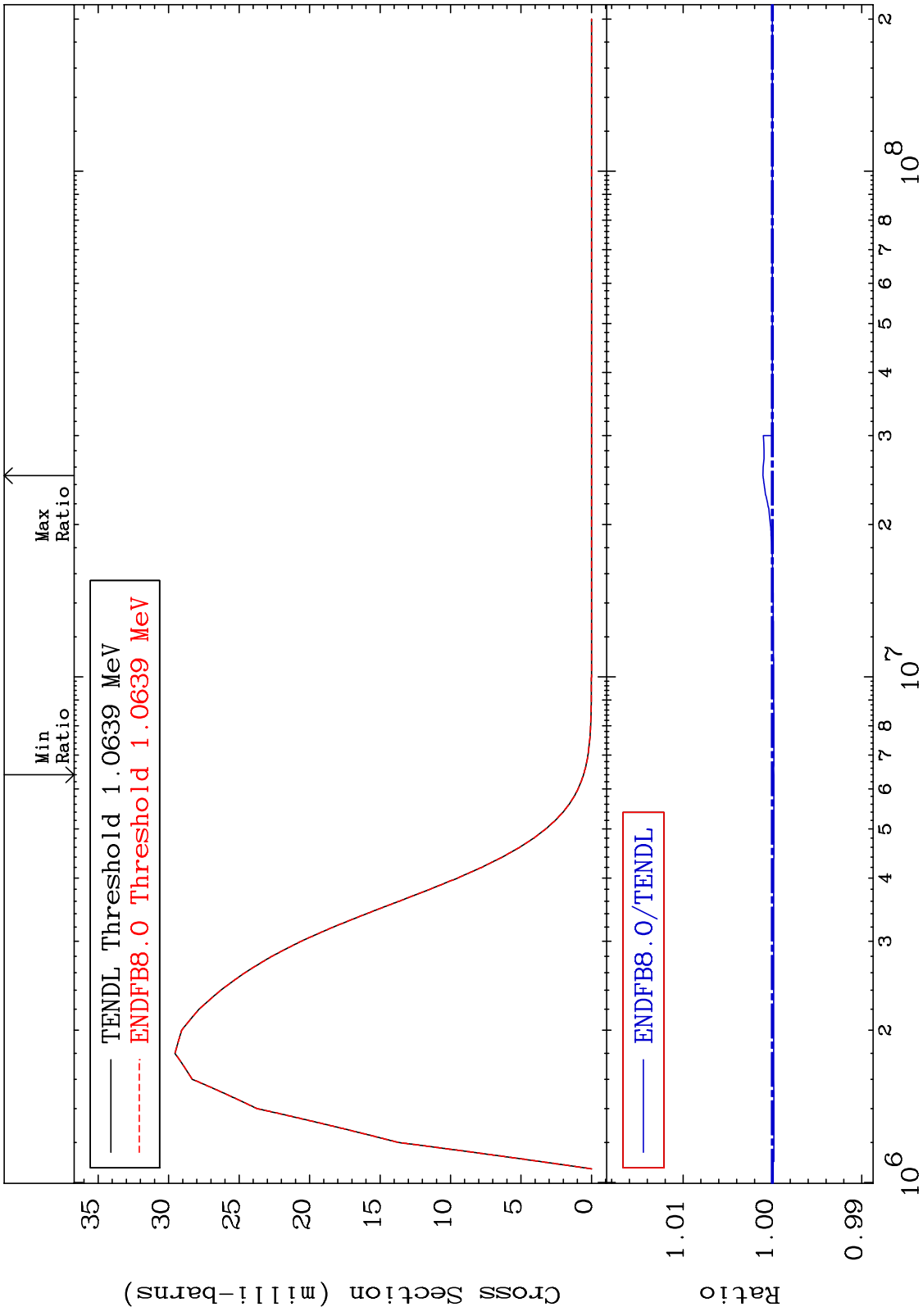


42 81-Tl-204

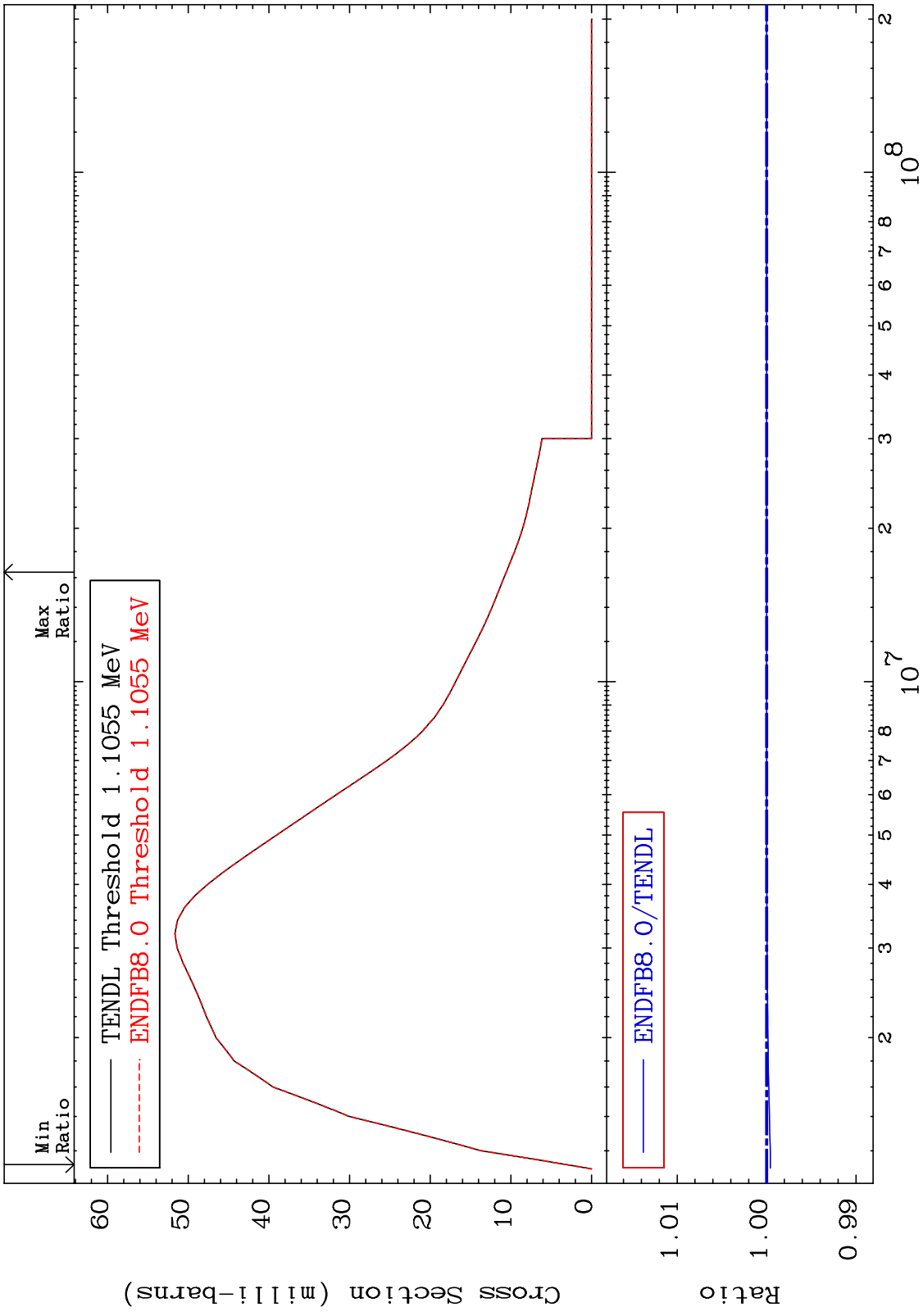
MAT 8128 MT= 76 (n,n') Level Cross Section 81-Tl-204 -0.013 To 0.000 %



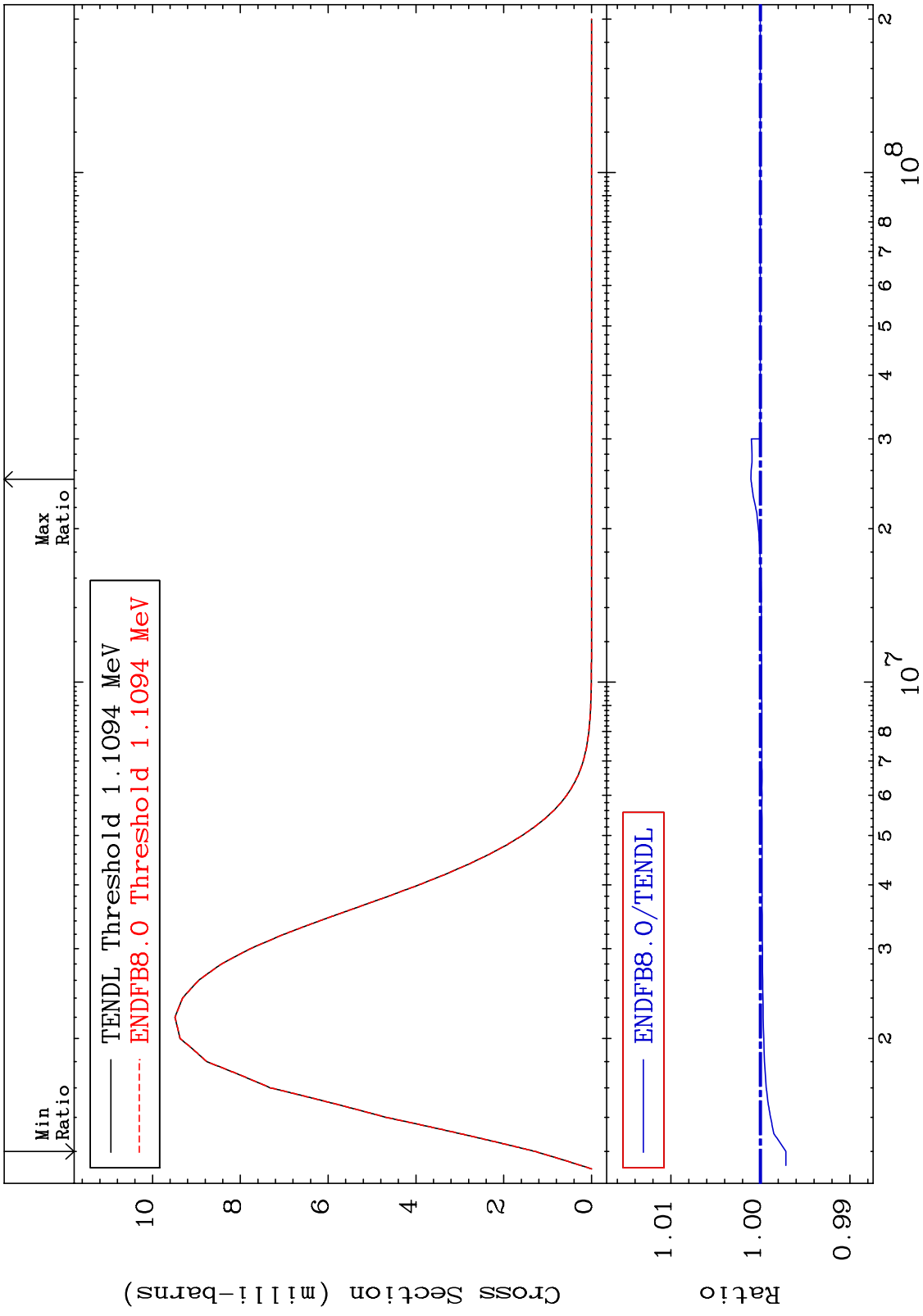
MAT 8128 MT= 77 (n,n') Level Cross Section 81-Tl-204 -0.017 To 0.106 %



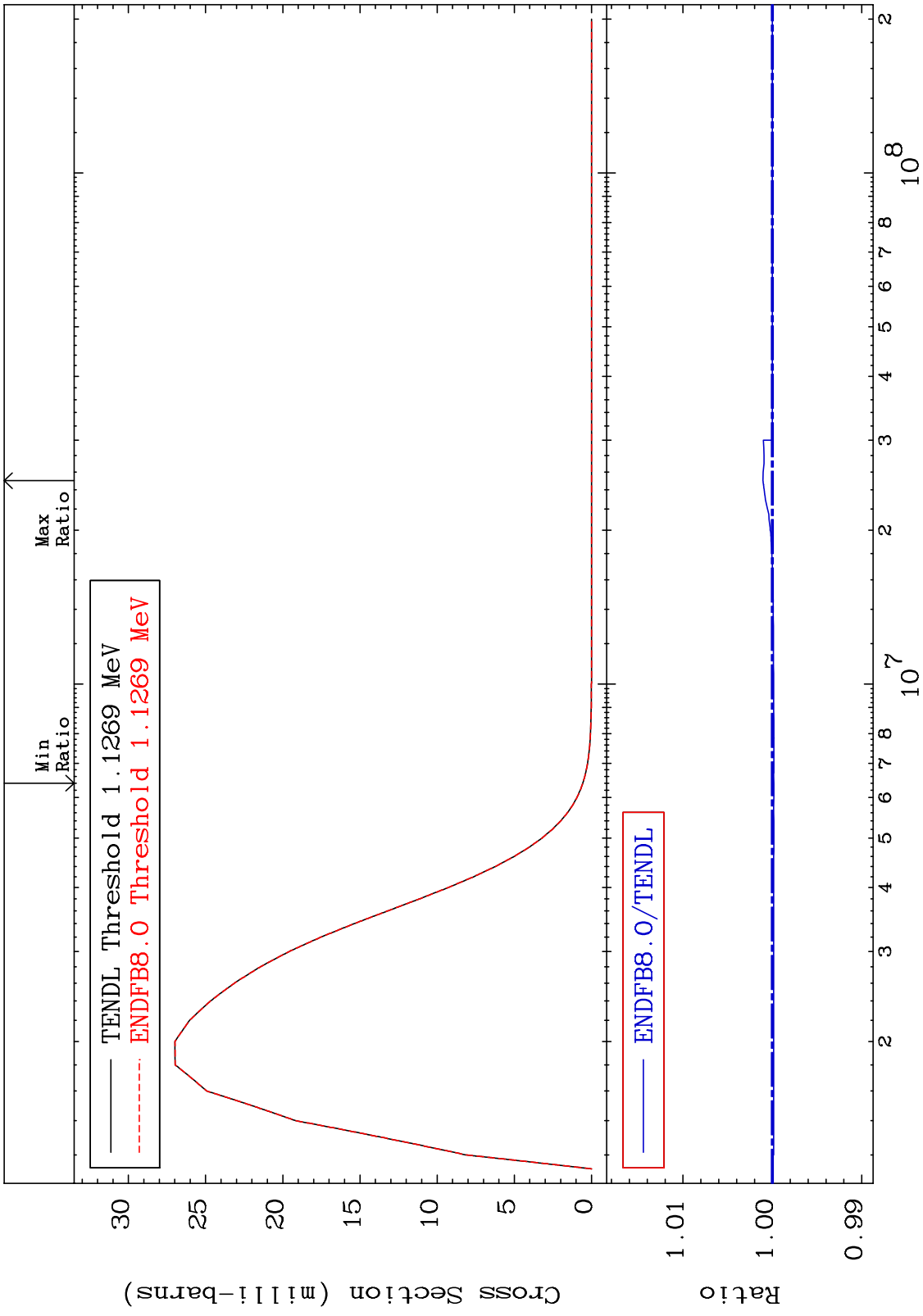
MAT 8128 MT= 78 (n,n') Level Cross Section 81-Tl-204 -0.042 To 0.000 %

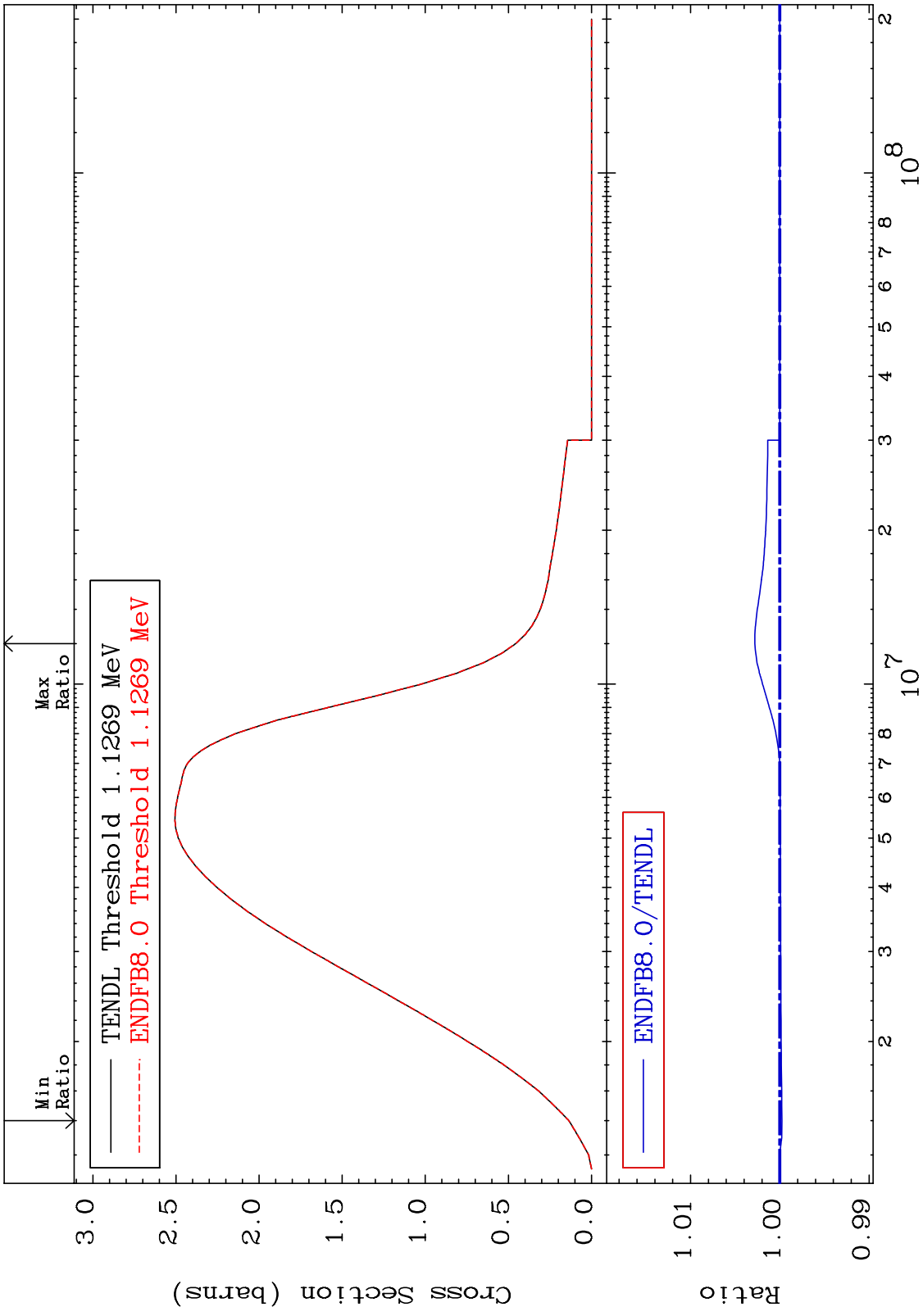


MAT 8128 MT= 79 (n,n') Level Cross Section 81-Tl-204 -0.285 To 0.106 %



MAT 8128 MT= 80 (n,n') Level Cross Section 81-TI-204  
 -0.017 To 0.105 %





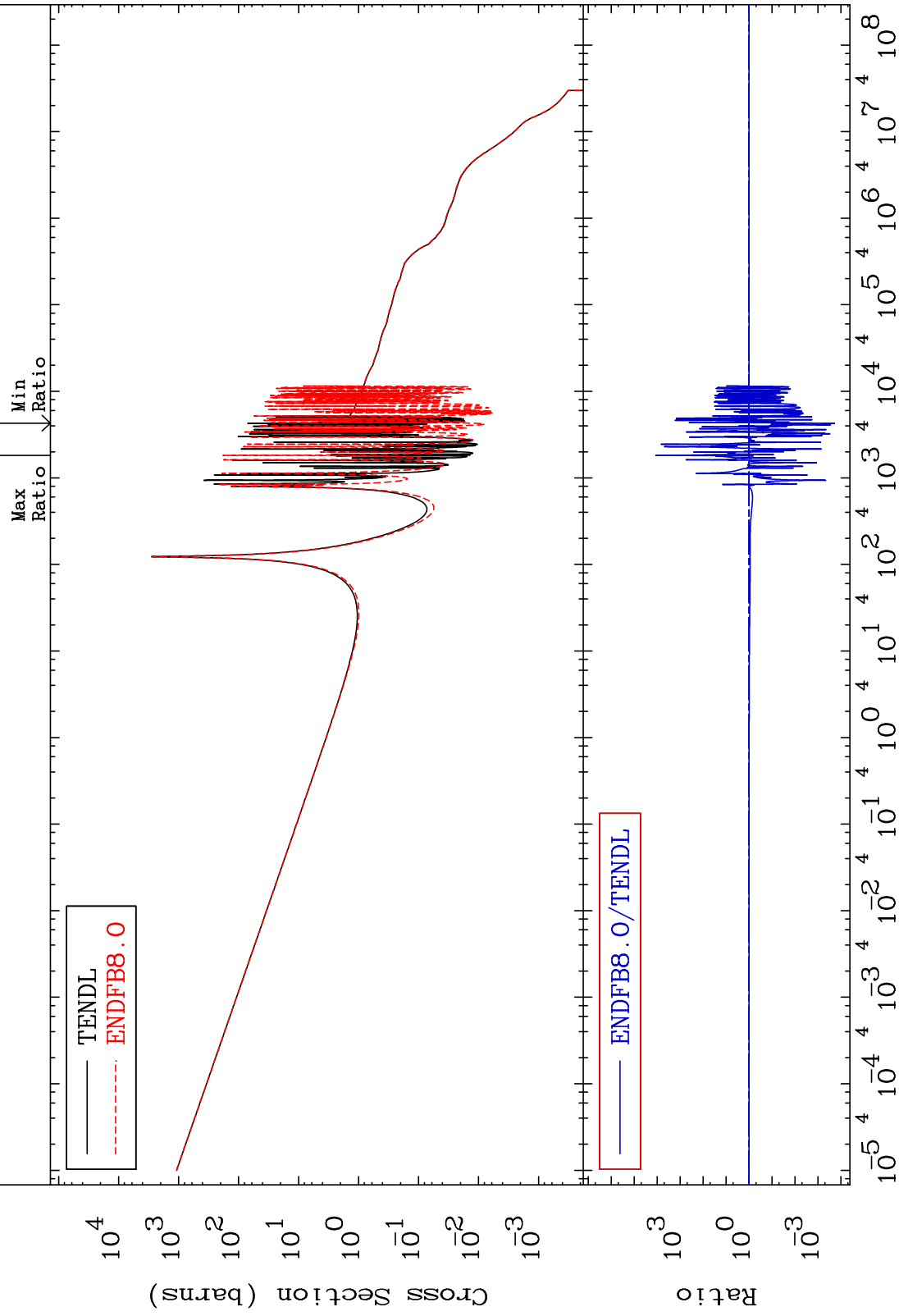
MAT 8128

(n,  $\gamma$ )

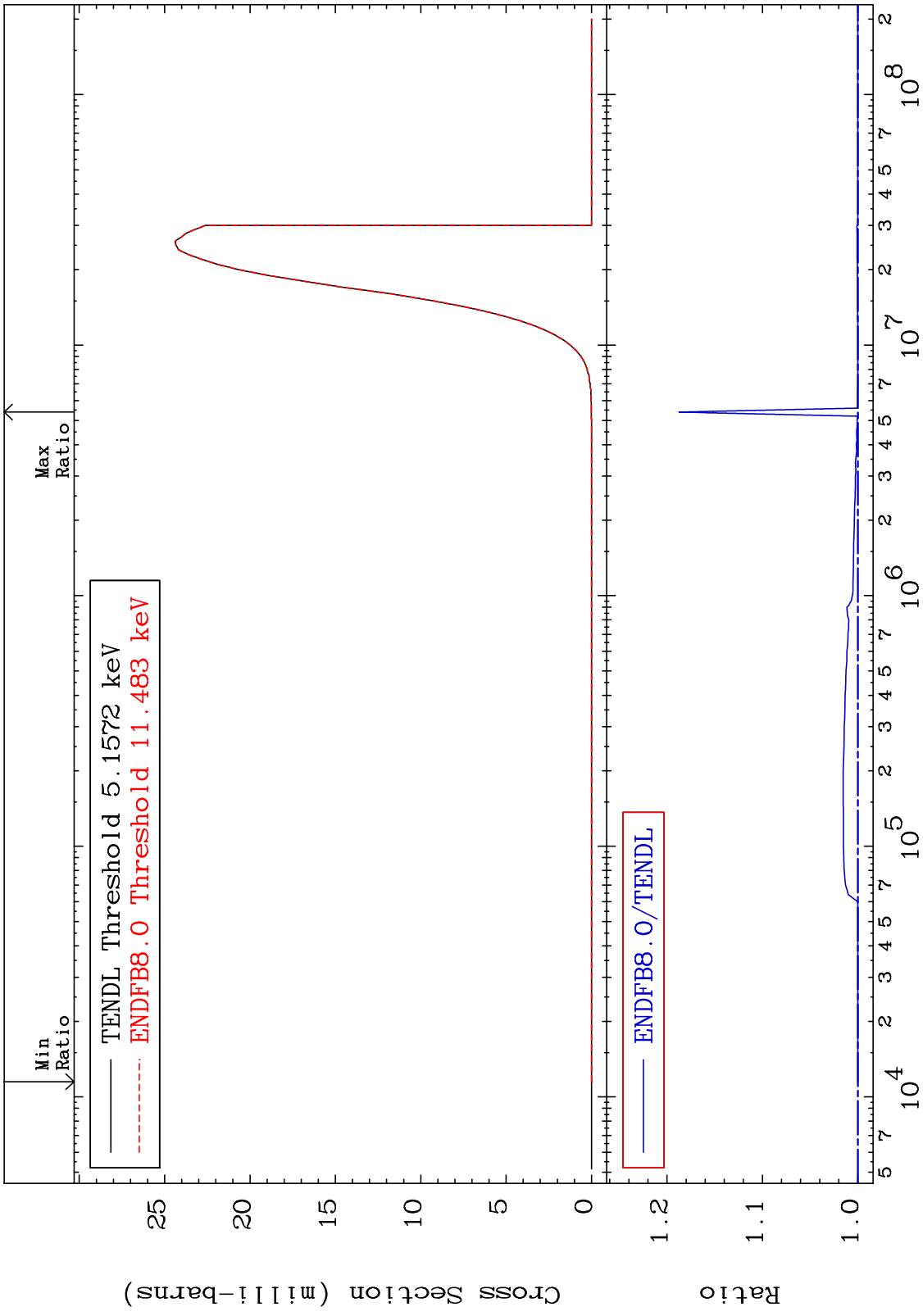
81-TI-204

-99.98 To 9999. %

Cross Section

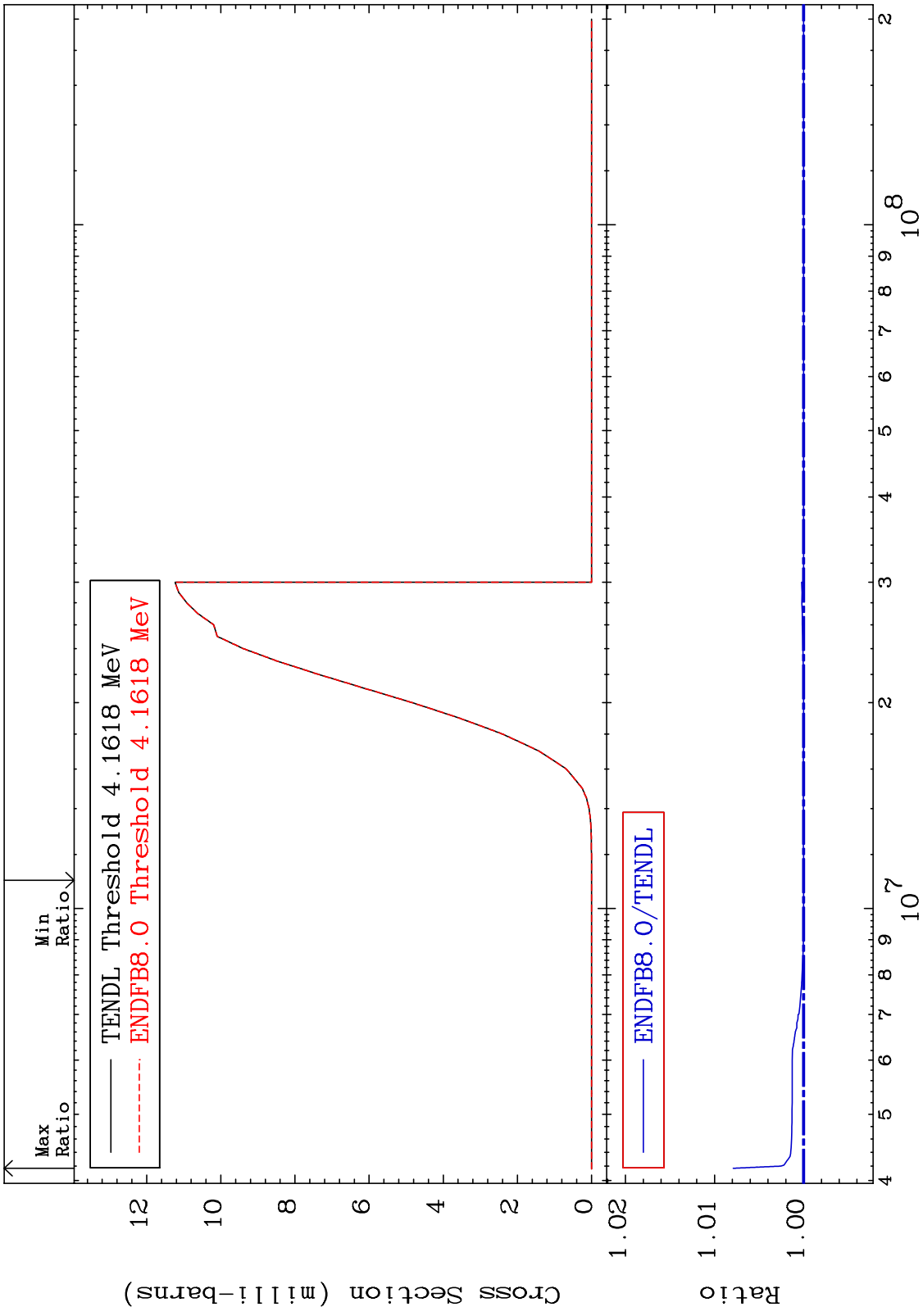


MAT 8128 (n,p) Cross Section 81-Tl-204 To 18.74 %

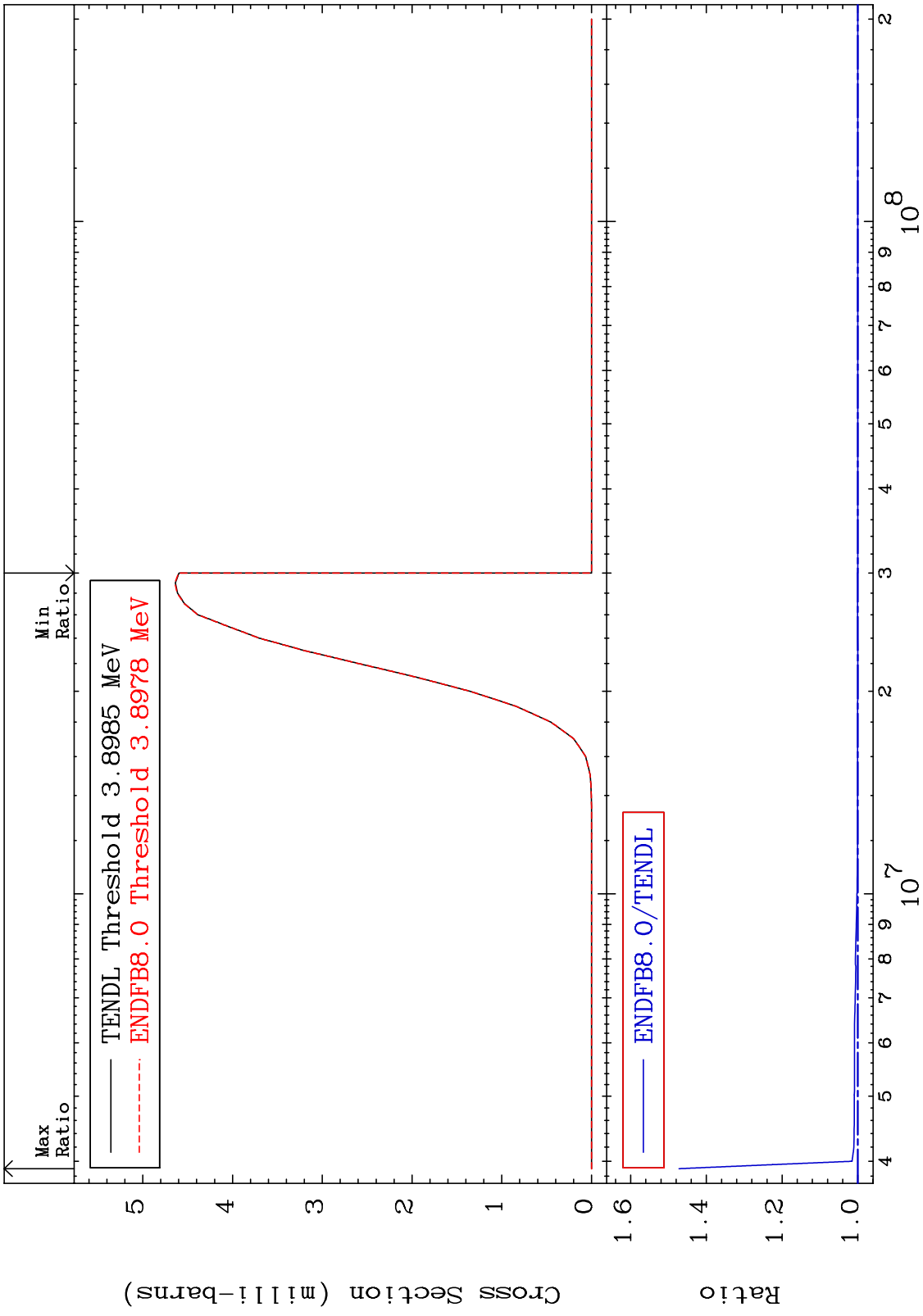


50 81-Tl-204

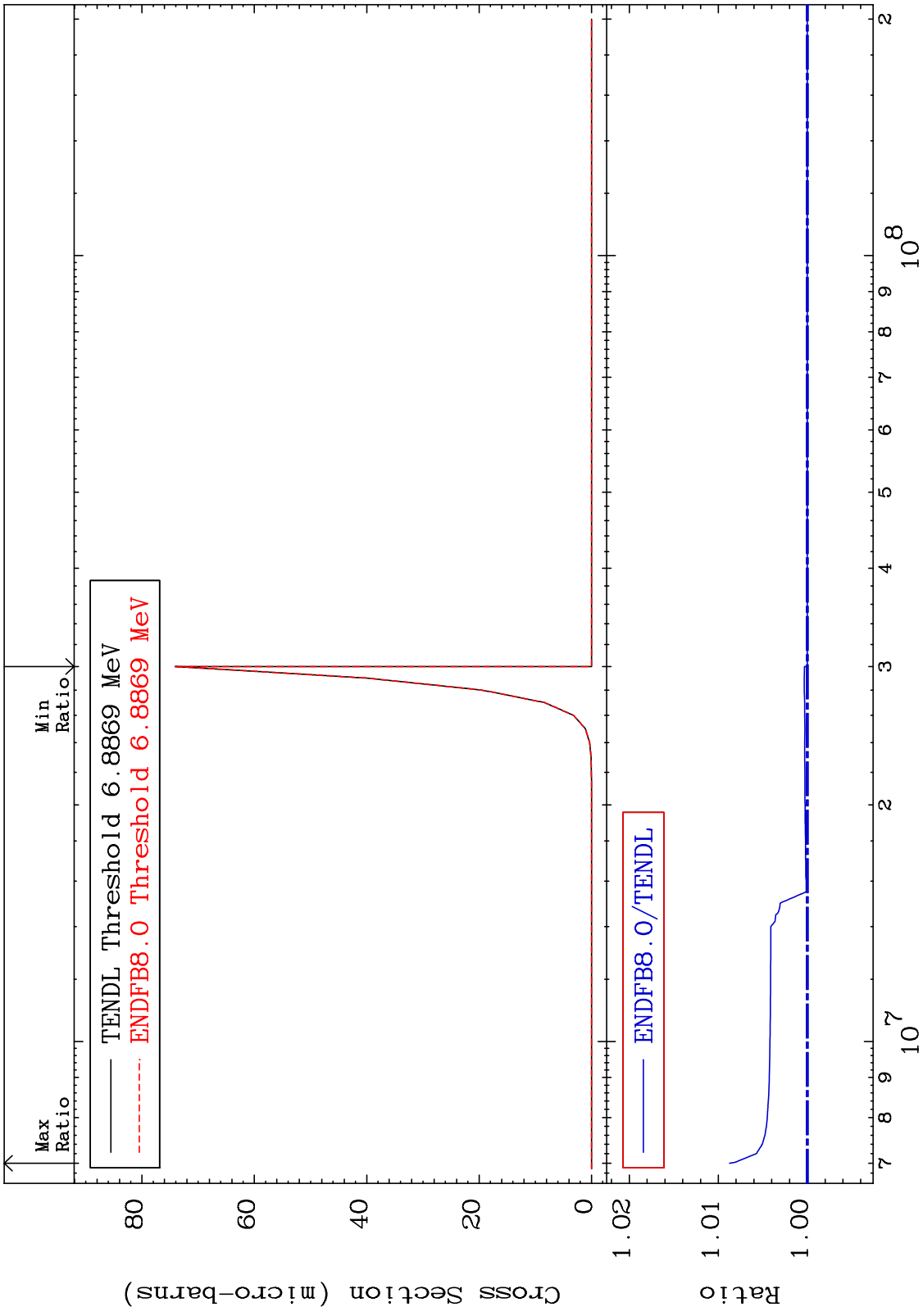
MAT 8128 (n,d) Cross Section 81-Tl-204 To 0.790 %



MAT 8128 (n,t) Cross Section 81-Tl-204 To 47.22 %  
 0.000



MAT 8128 (n, He-3) Cross Section 81-Tl-204 To 0.874 %



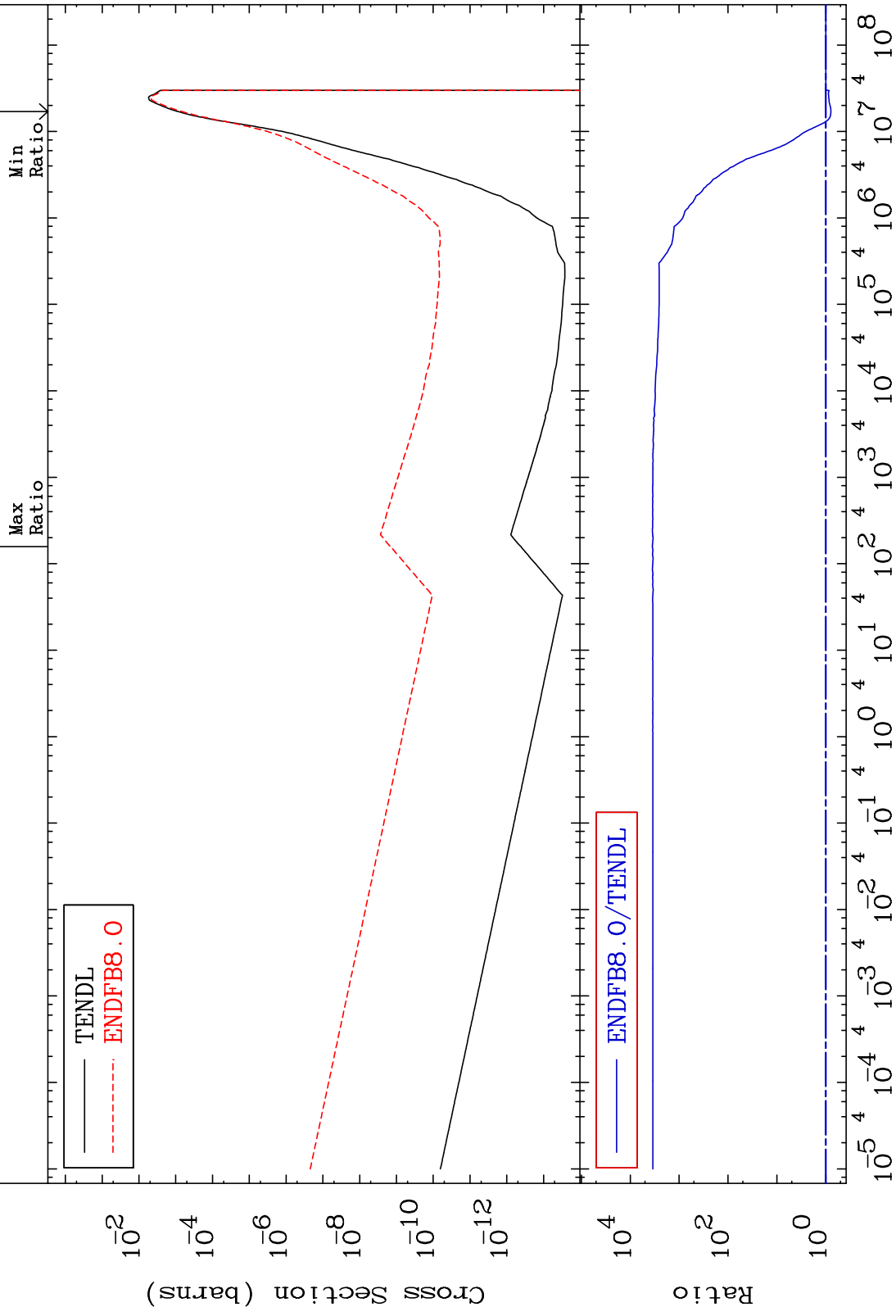
MAT 8128

(n,  $\alpha$ )

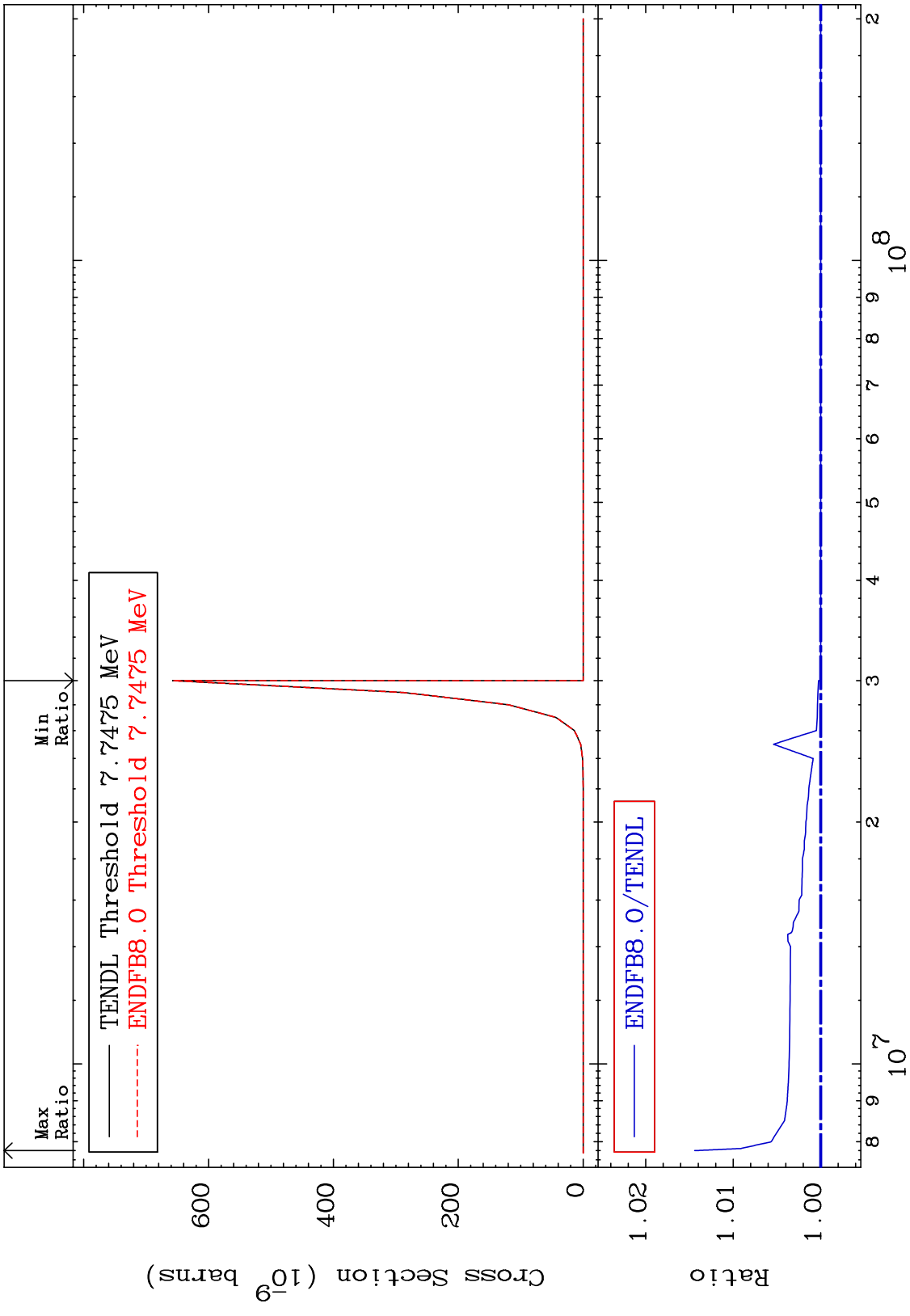
81-TI-204

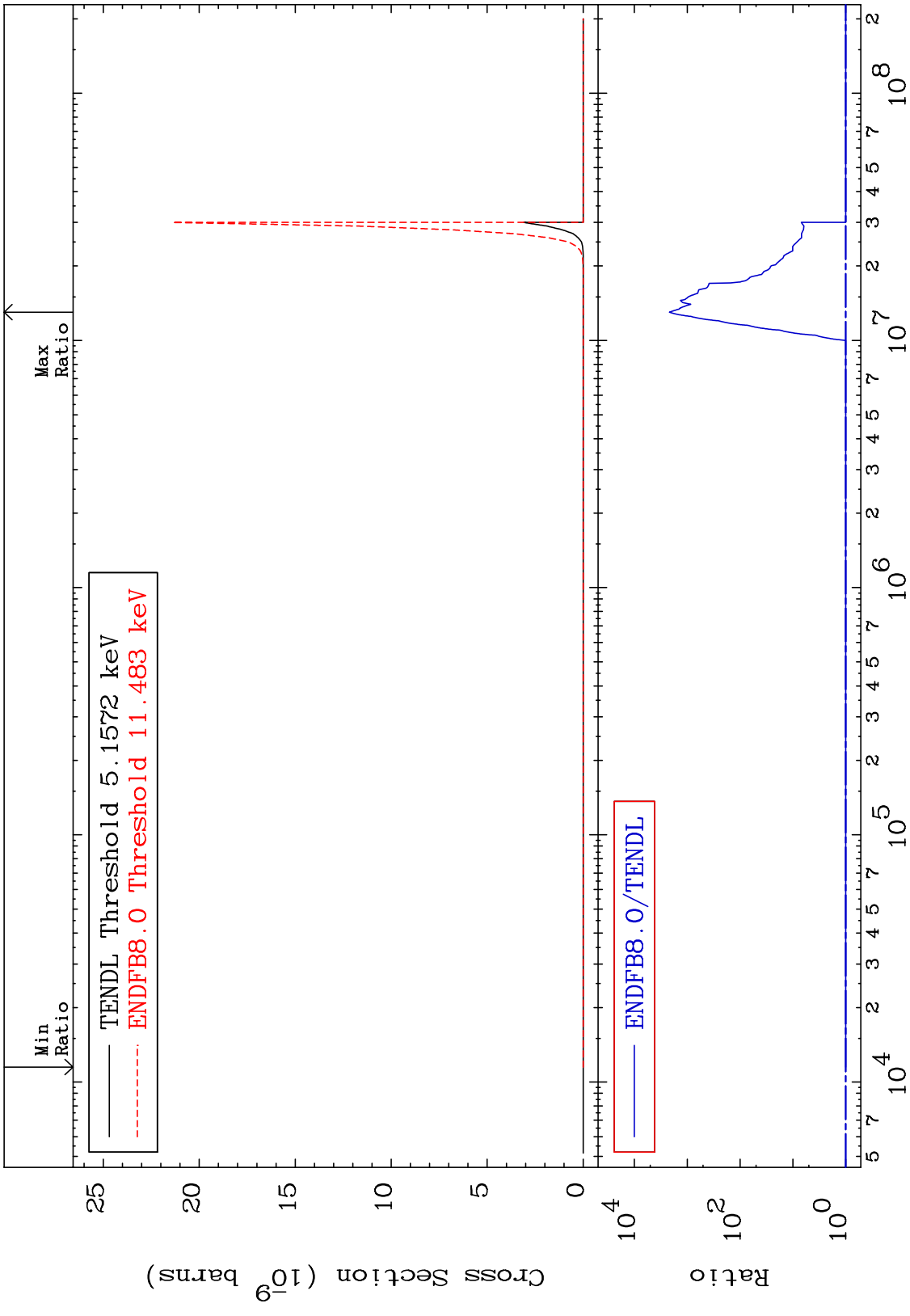
-21.24 To 9999. %

Cross Section



MAT 8128 (n,2p) Cross Section 81-Tl-204 To 1.442 %

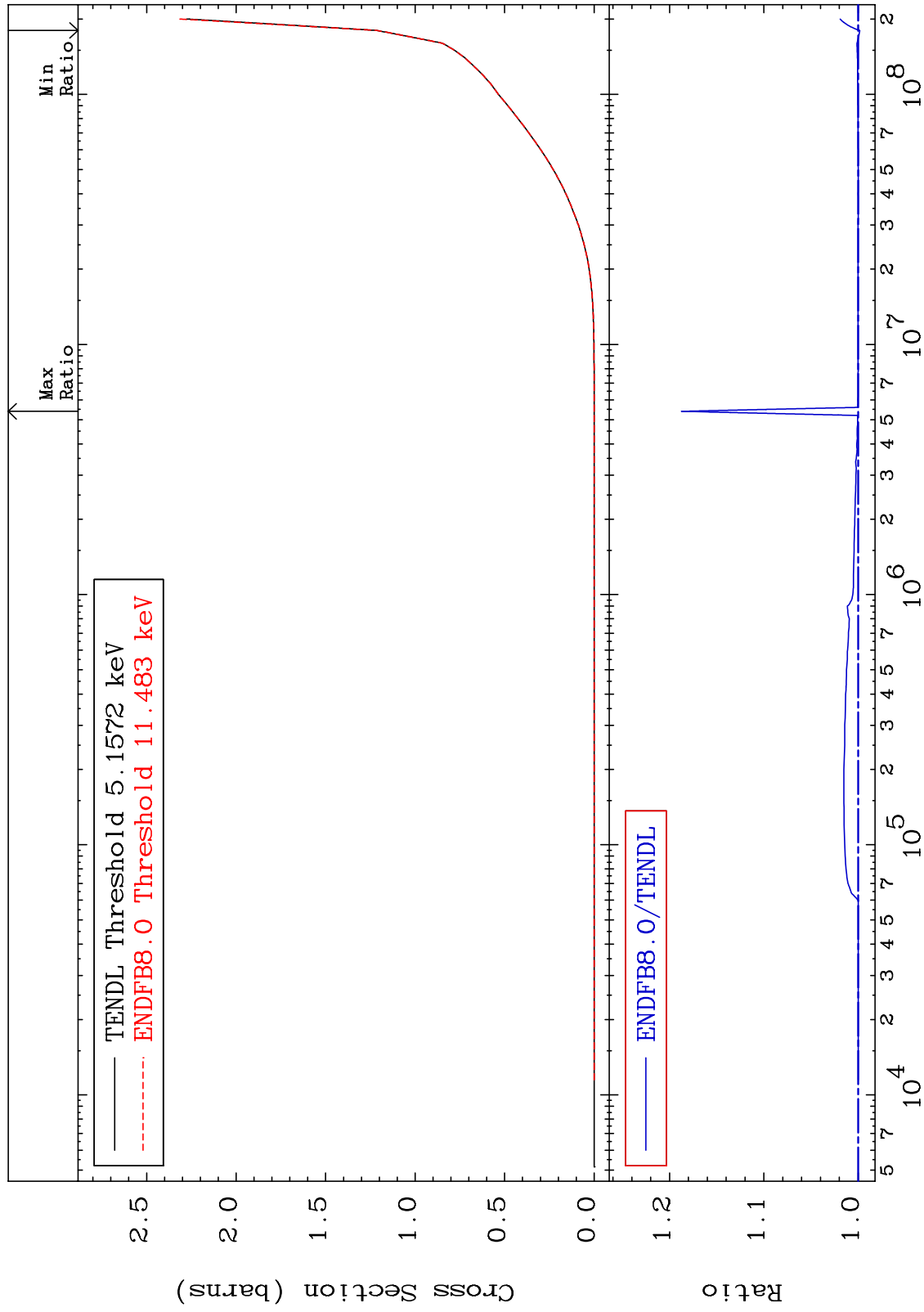




MAT 8128

### Hydrogen Production Cross Section

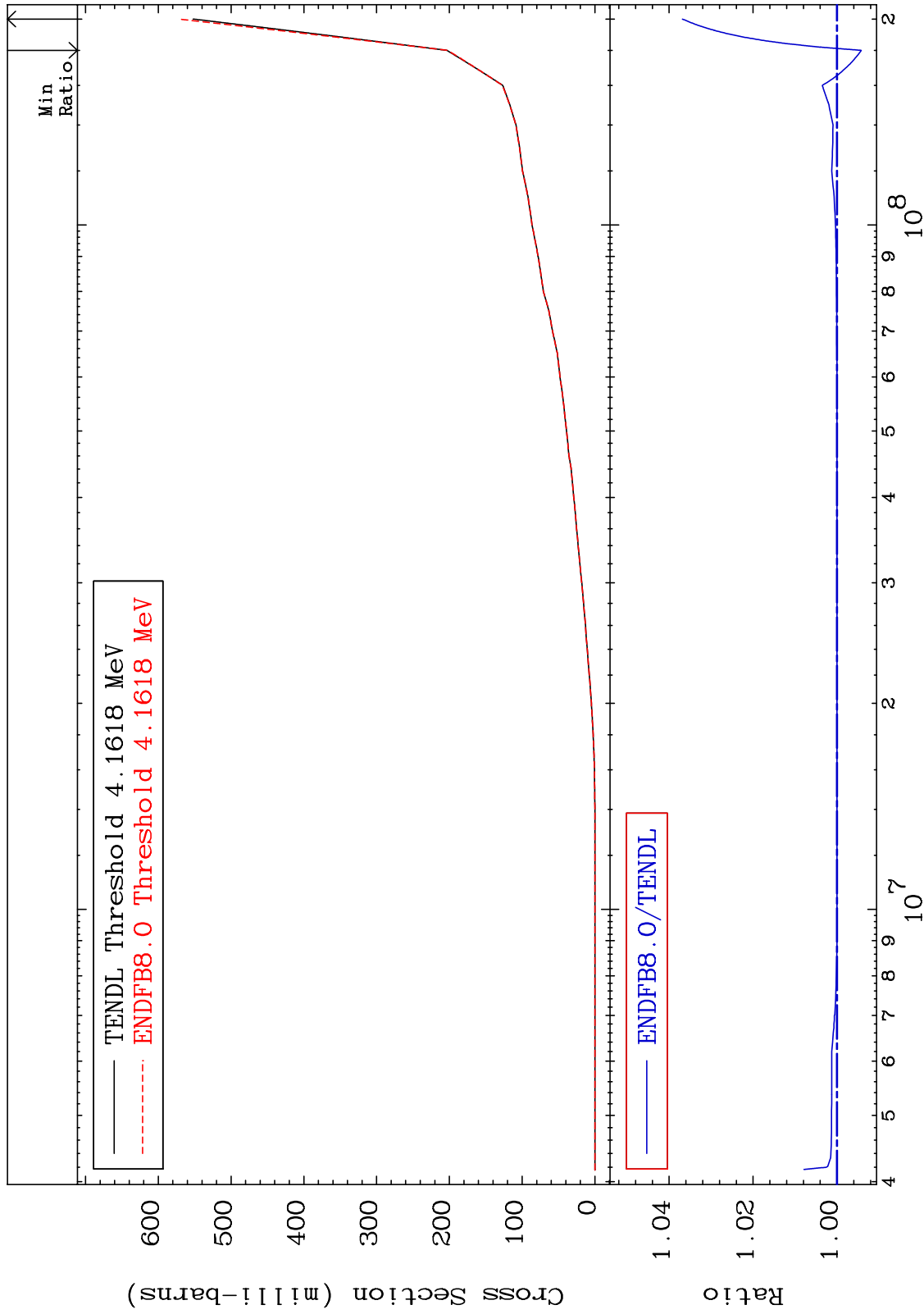
81-Tl-204  
-0.171 To 18.74 %



MAT 8128

Deuterium Production  
Cross Section

81-TI-204  
-0.578 To 3.683 %

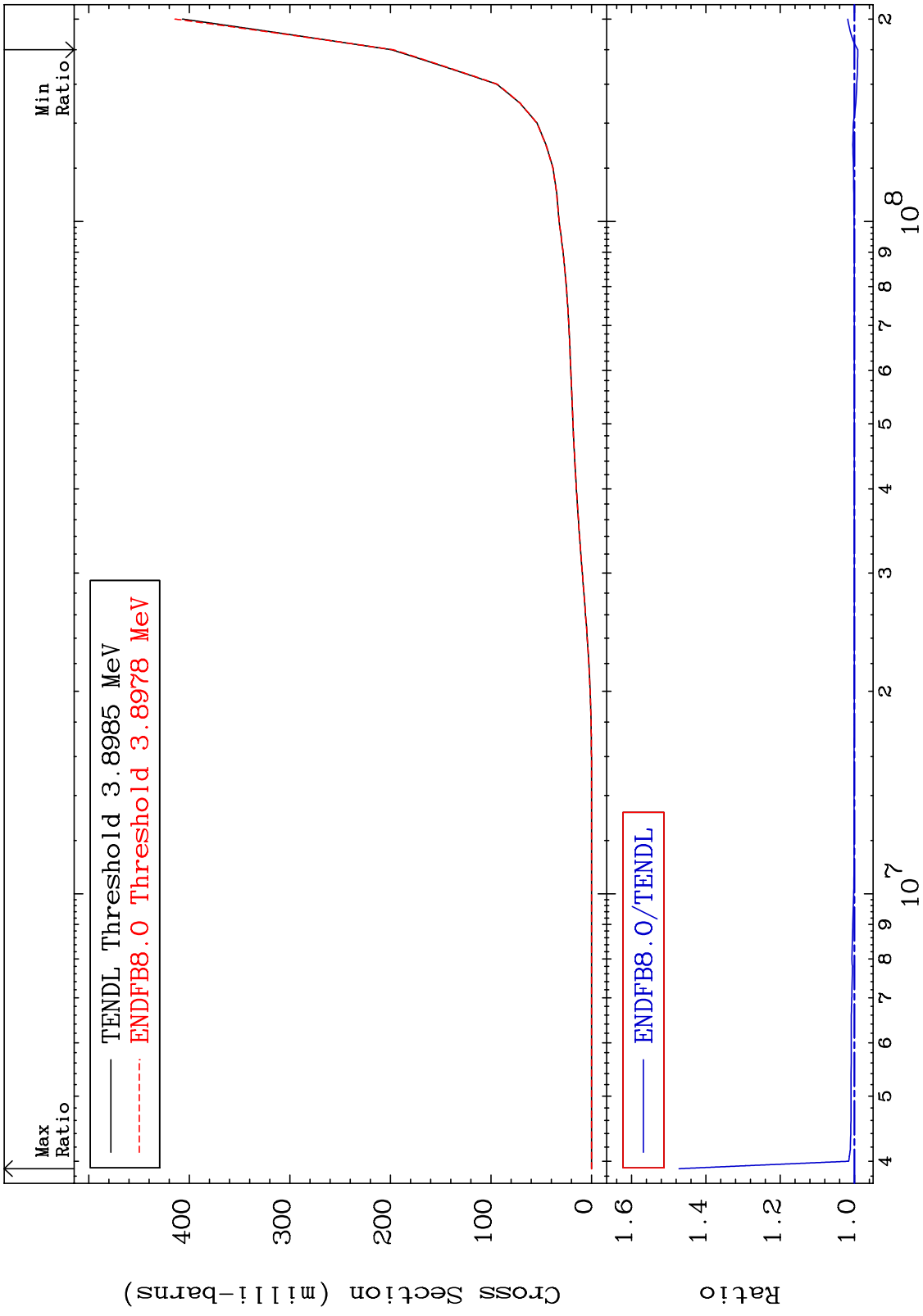


58

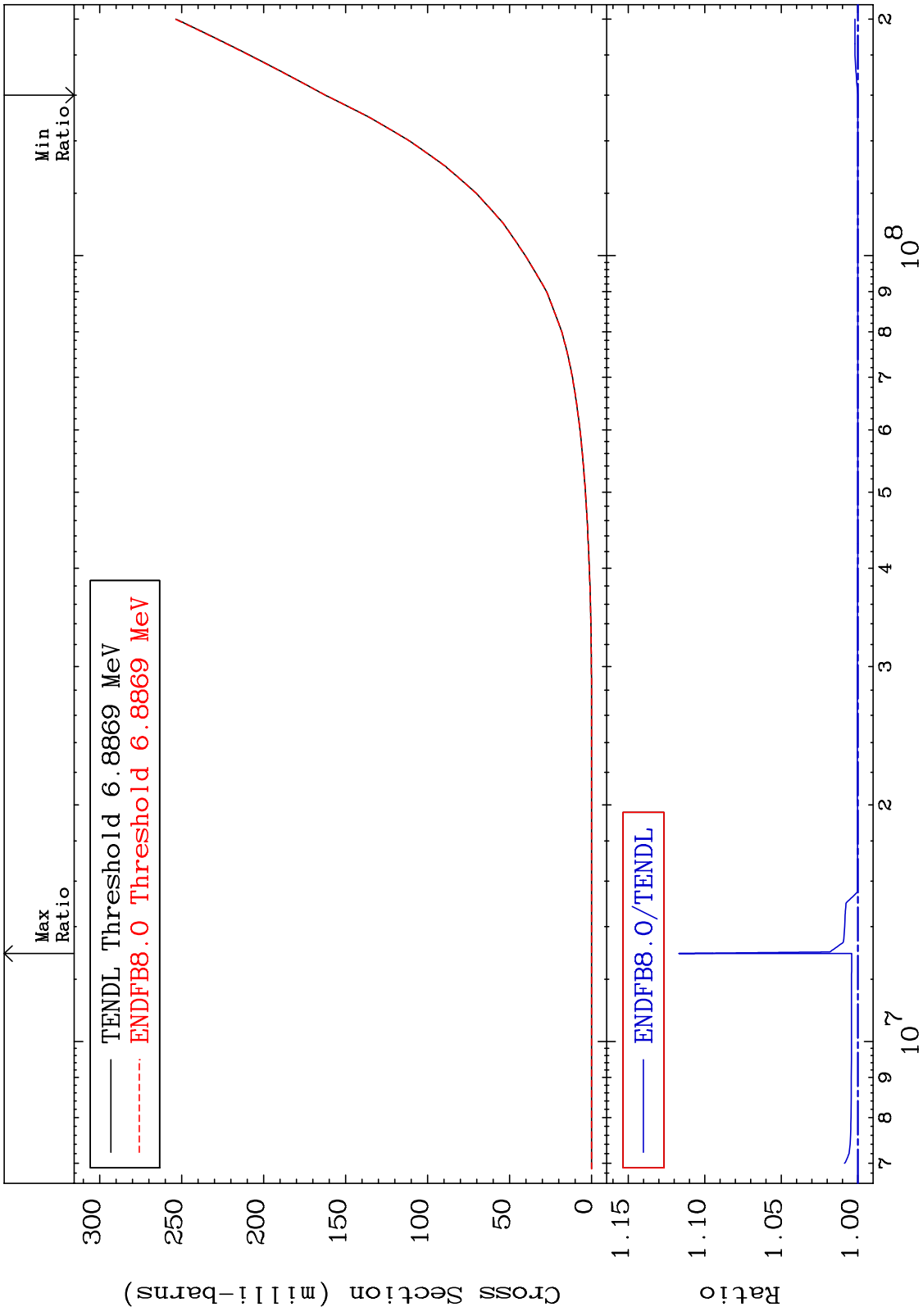
Incident Energy (eV)

81-TI-204

MAT 8128 Tritium Production Cross Section 81-Tl-204 -0.920 To 47.22 %



MAT 8128 He-3 Production Cross Section 81-TI-204 To 11.68 %

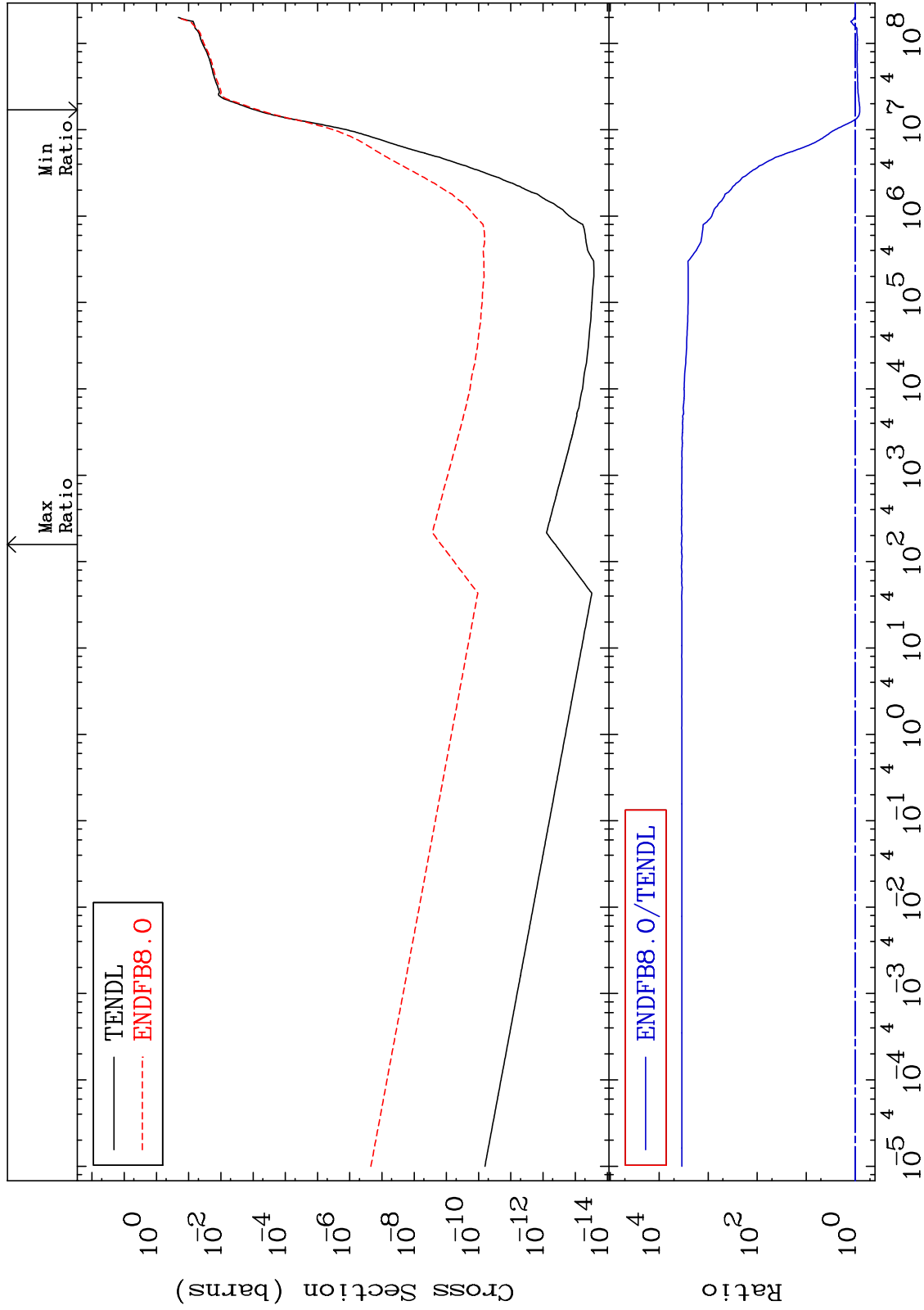


60 81-TI-204

MAT 8128

He-4 Production  
Cross Section

81-TI-204  
-19.49 To 9999. %



61

Incident Energy (eV)

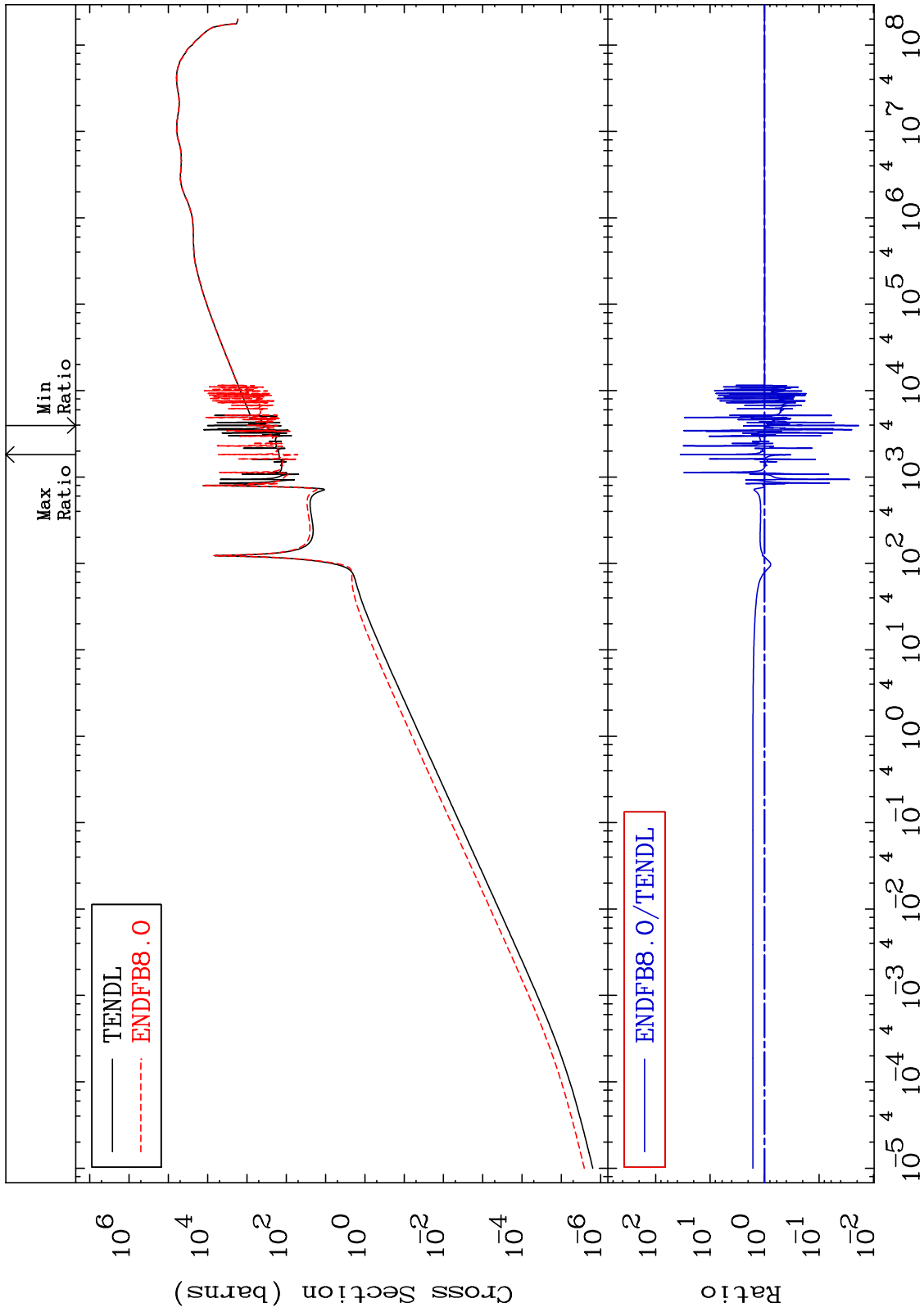
81-TI-204



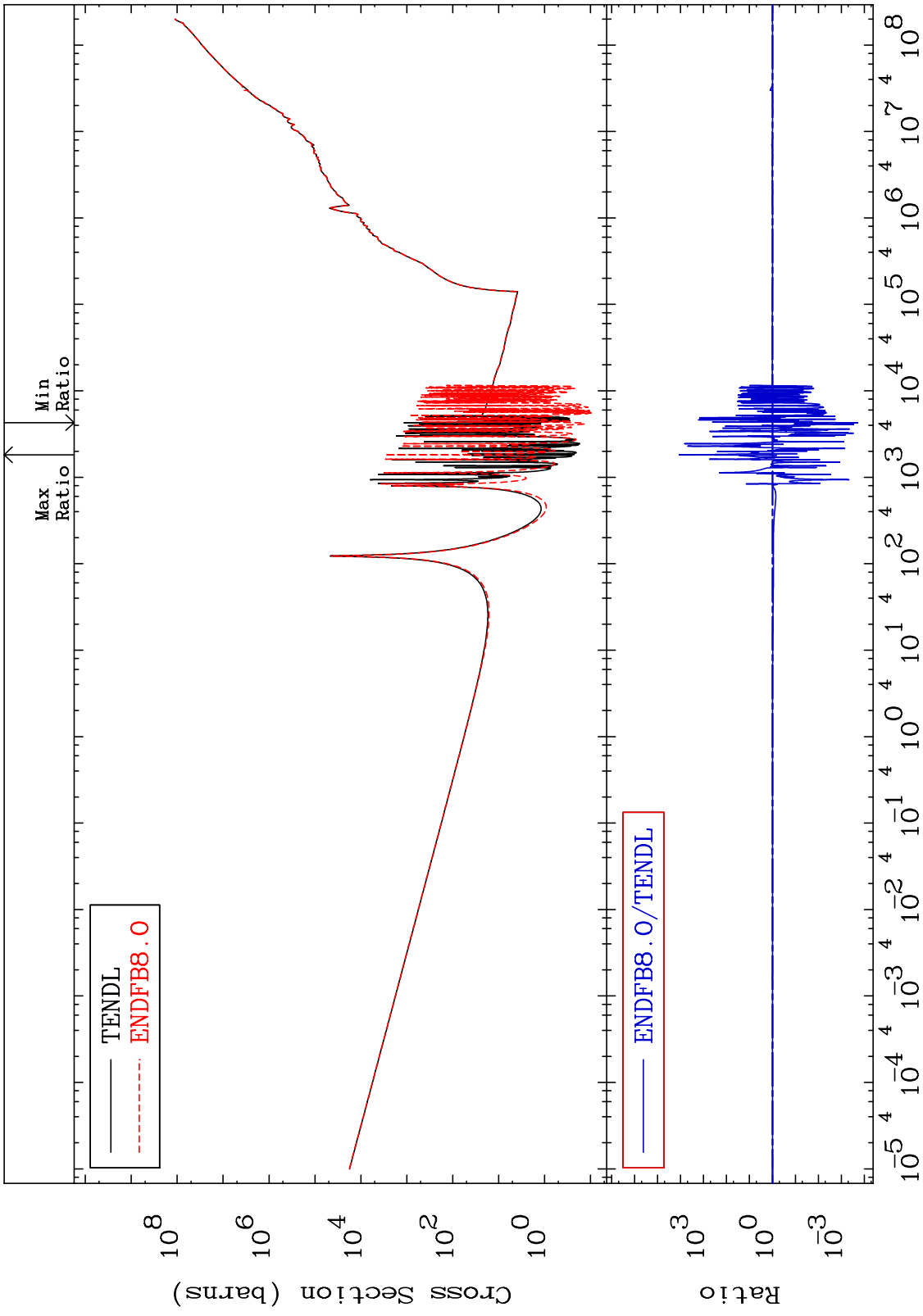
MAT 8128

Kerma elastic  
Cross Section

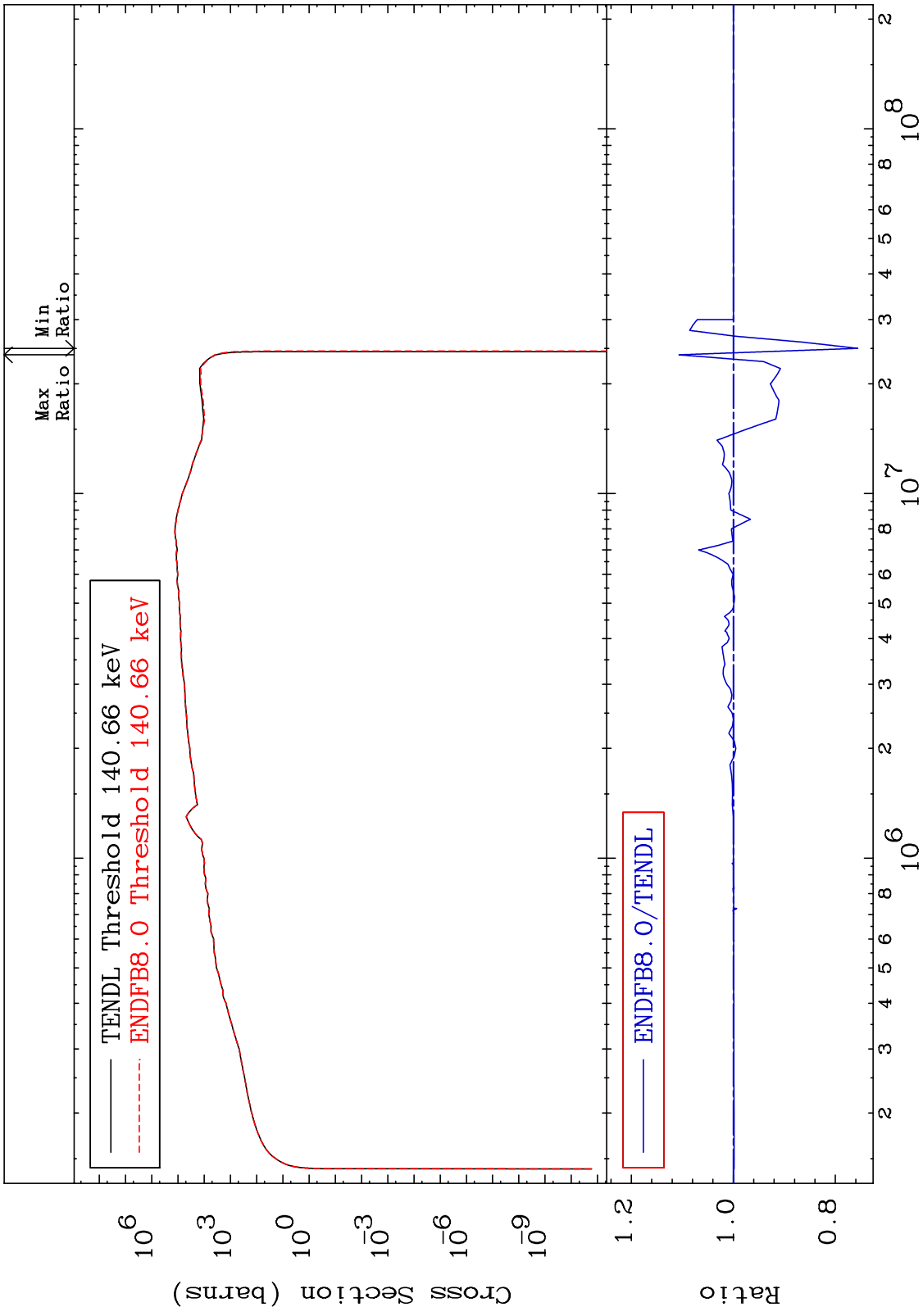
81-TI-204  
-98.14 To 3432. %



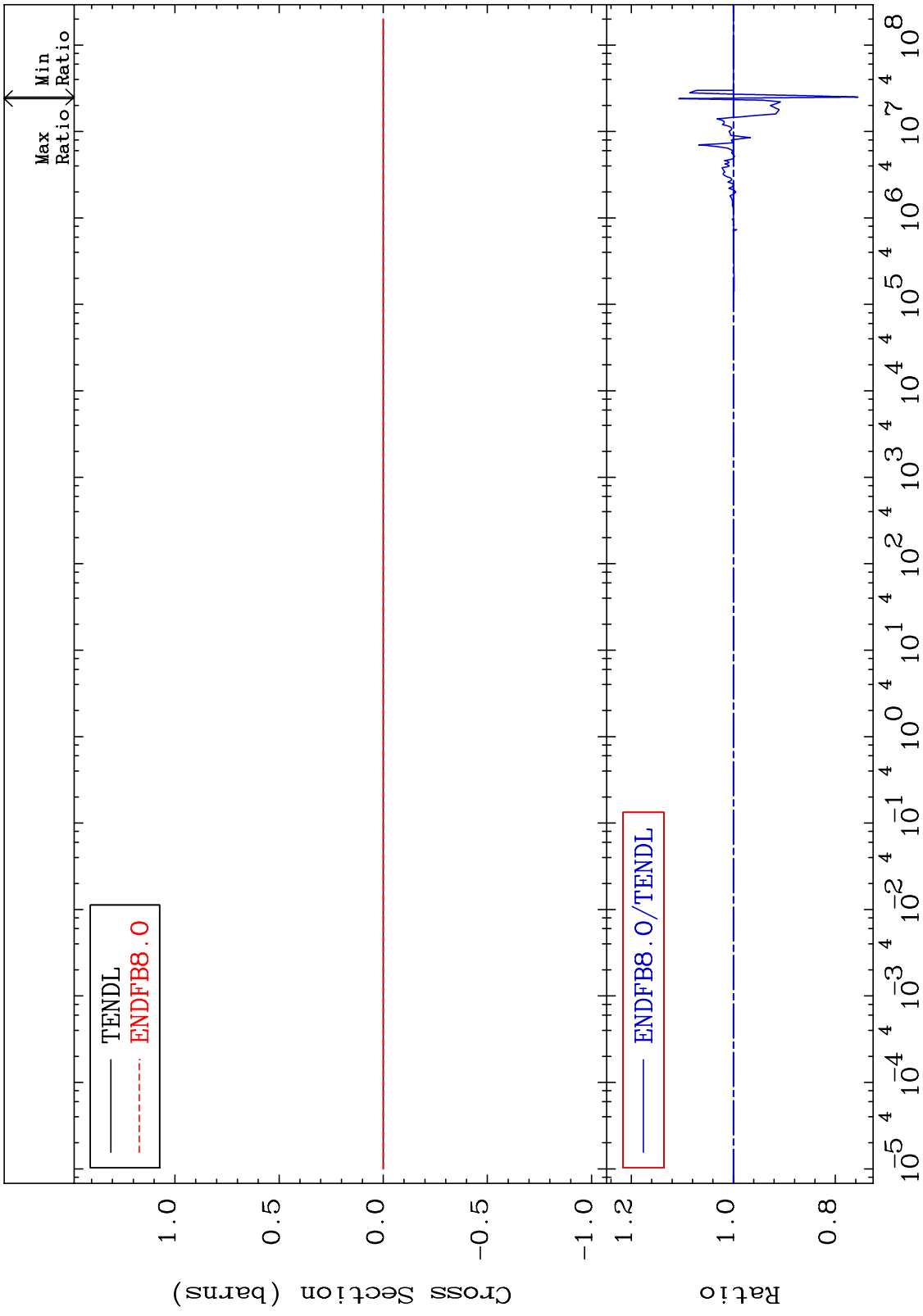
MAT 8128      Kerma non-elastic (all but mt2)      81-TI-204  
 Cross Section      -99.98 To 9999. %



MAT 8128 Kerma inelastic (mt51-91) 81-Tl-204  
 Cross Section -24.40 To 10.65 %



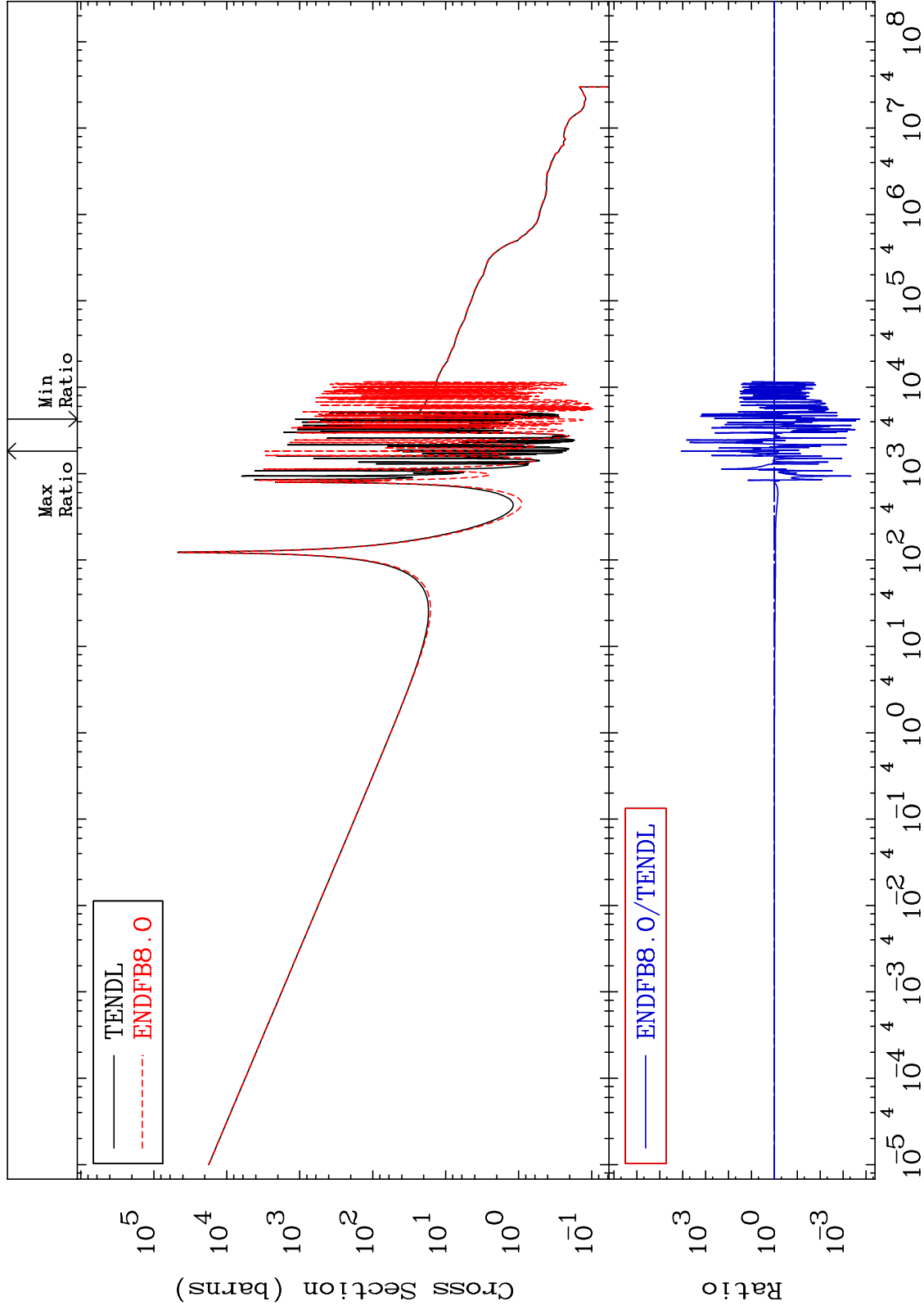
MAT 8128 Kerma fission (mt18 or mt19-20-21-38) 81-TI-204  
 Cross Section -24.40 To 10.65 %



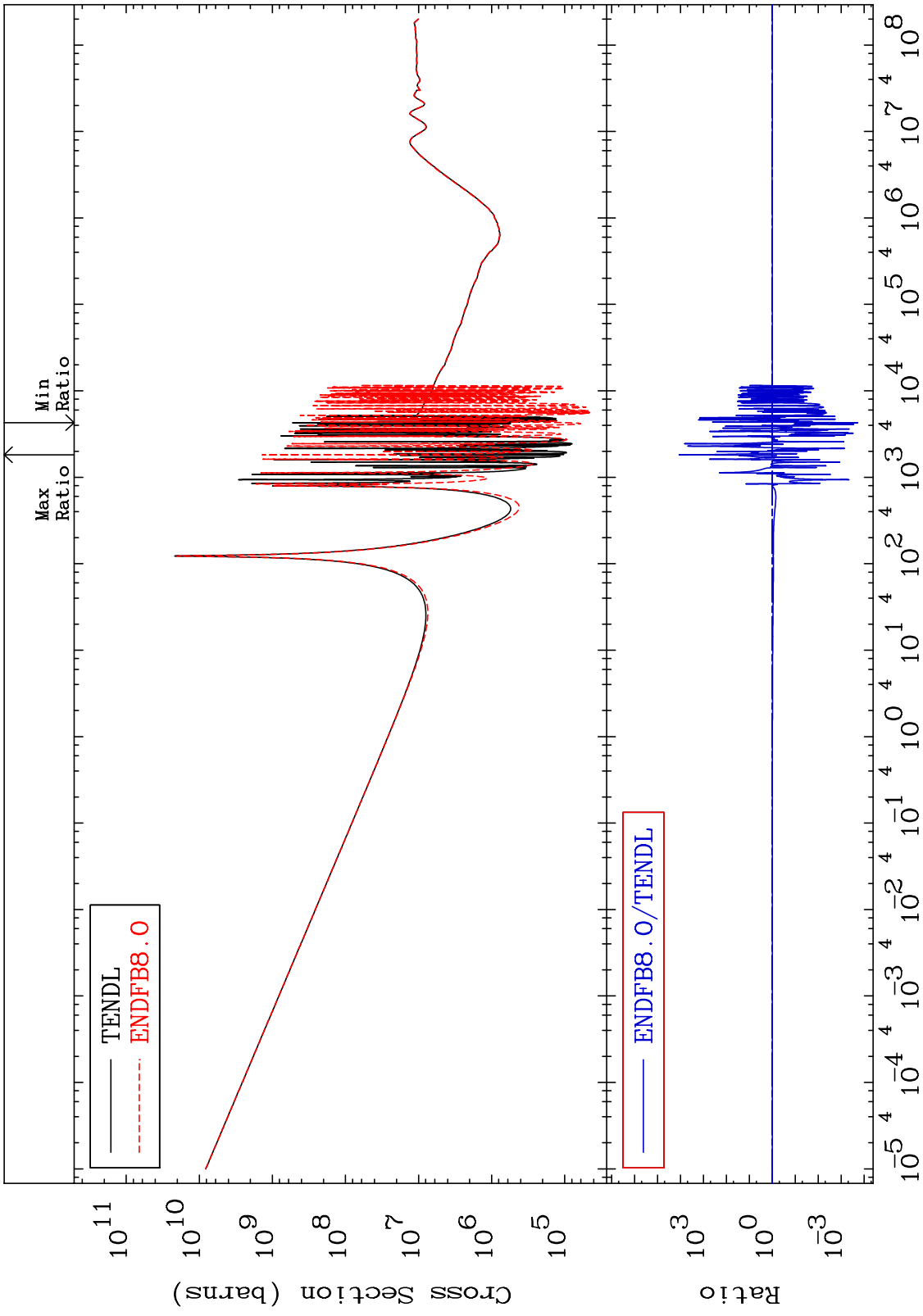
MAT 8128

Kerma capture (mt102)  
Cross Section

81-Tl-204  
-99.98 To 9999. %



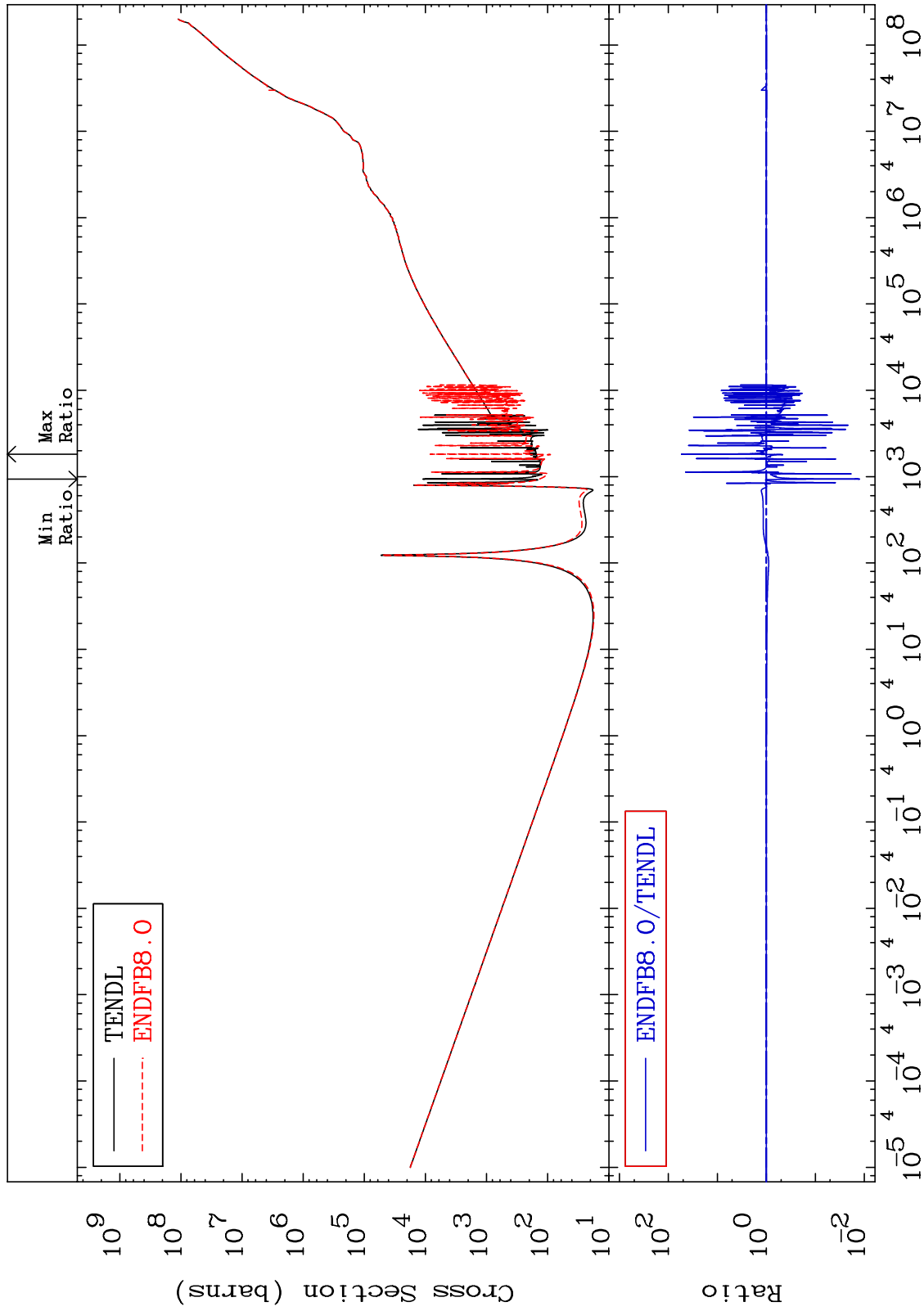
MAT 8128 81-TI-204  
-99.98 To 9999. %  
 Total photon (eV-barns)  
 Cross Section



MAT 8128

Total kinematic kerma (high limit)  
Cross Section

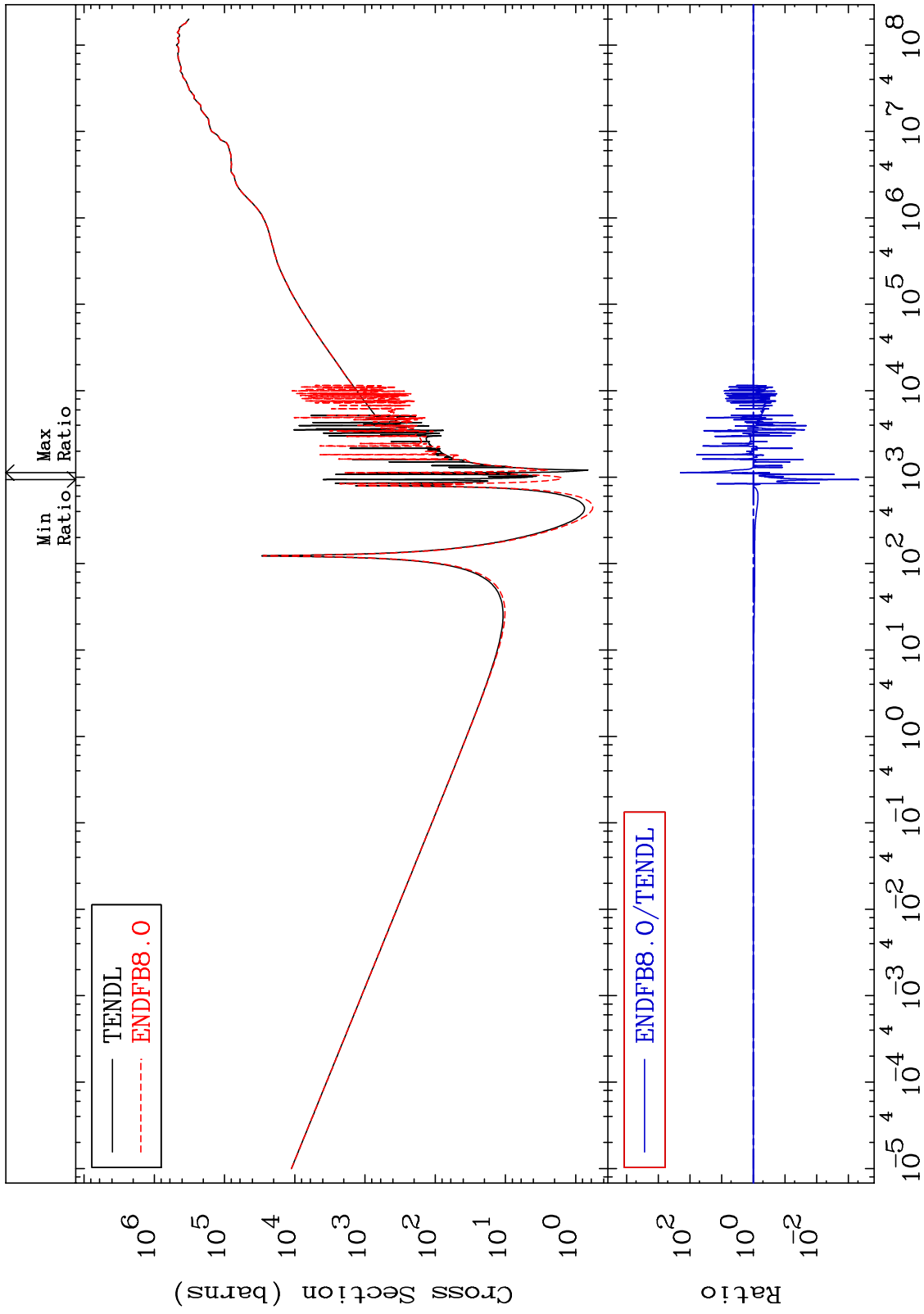
81-TI-204  
-98.76 To 5364. %



MAT 8128

Dpa total (eV-barns)  
Cross Section

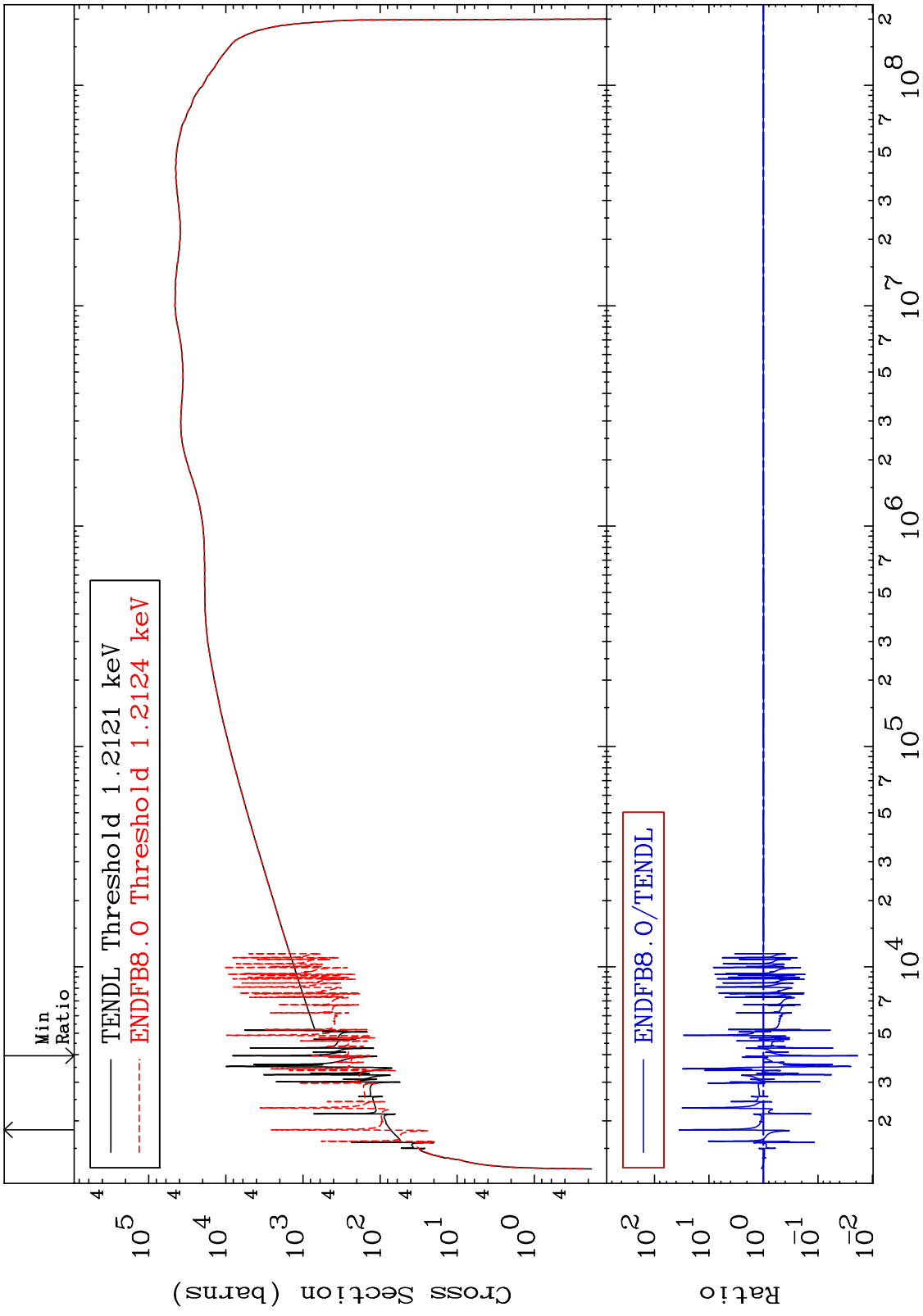
81-TI-204  
-99.95 To 9999. %



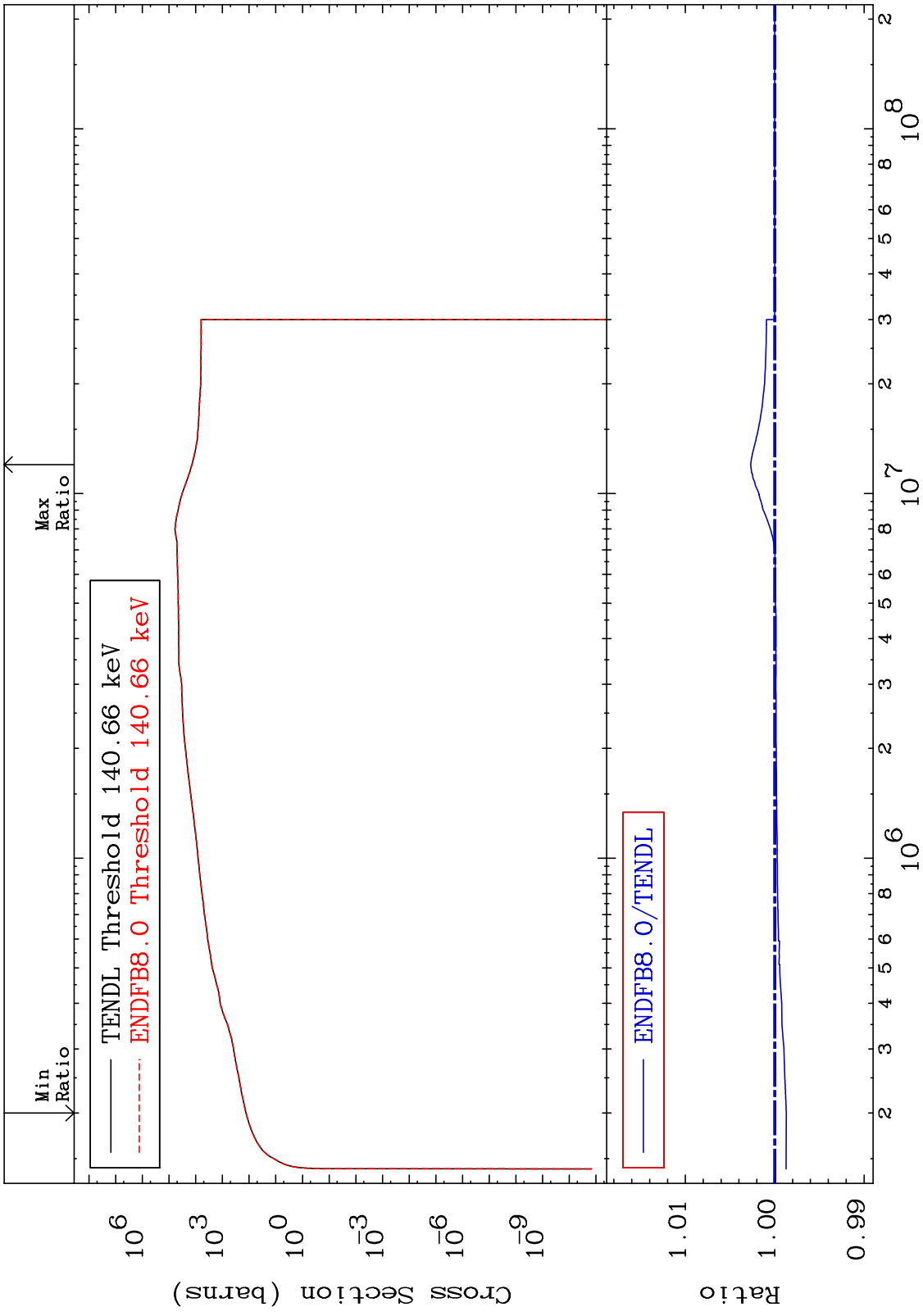
70

Incident Energy (eV)

81-TI-204



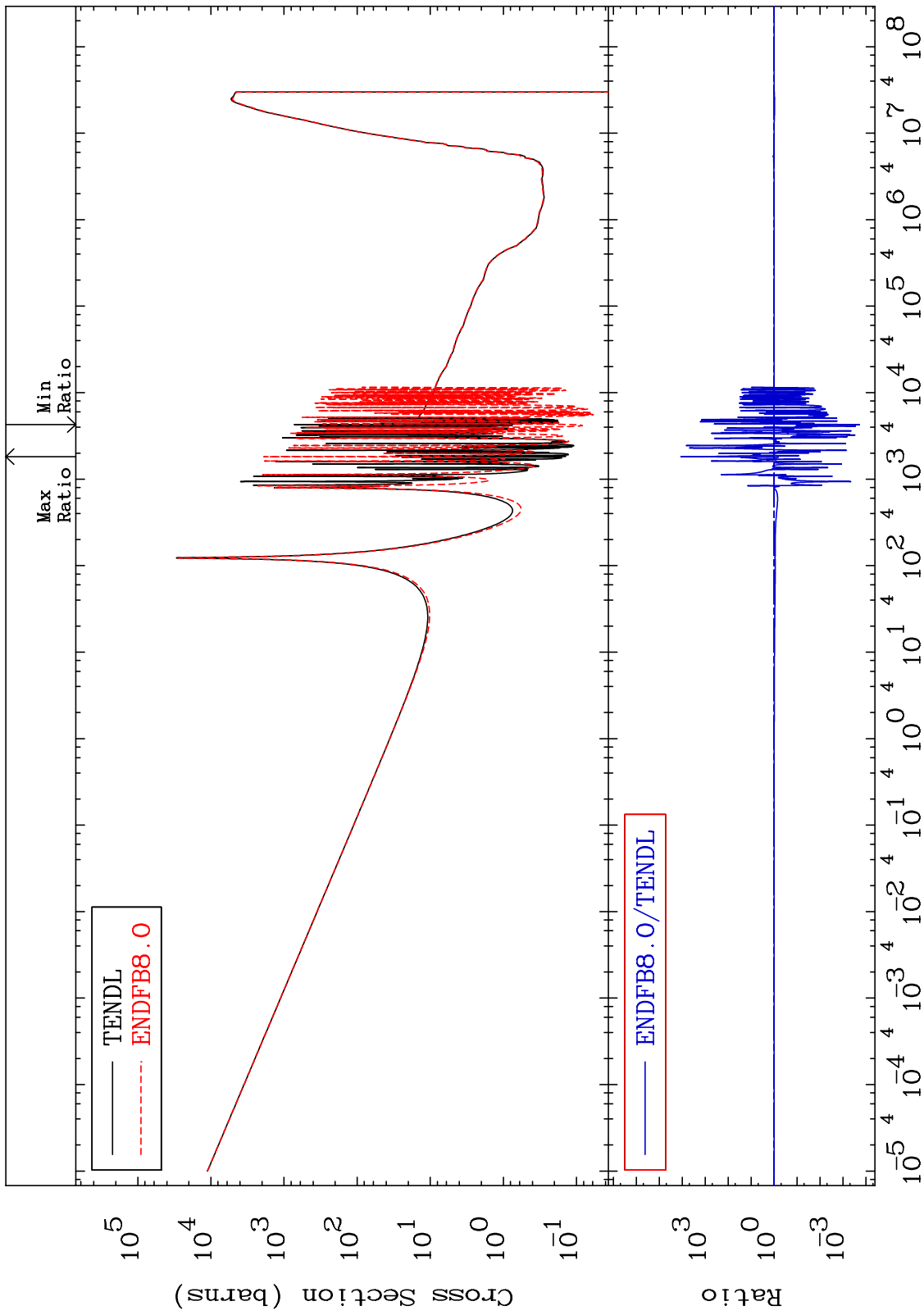
MAT 8128 Dpa inelastic (mt51-91) 81-Tl-204  
 Cross Section -0.130 To 0.270 %



MAT 8128

Dpa disappearance (mt102 -120)  
Cross Section

81-TI-204  
-99.98 To 9999. %



73

Incident Energy (eV)

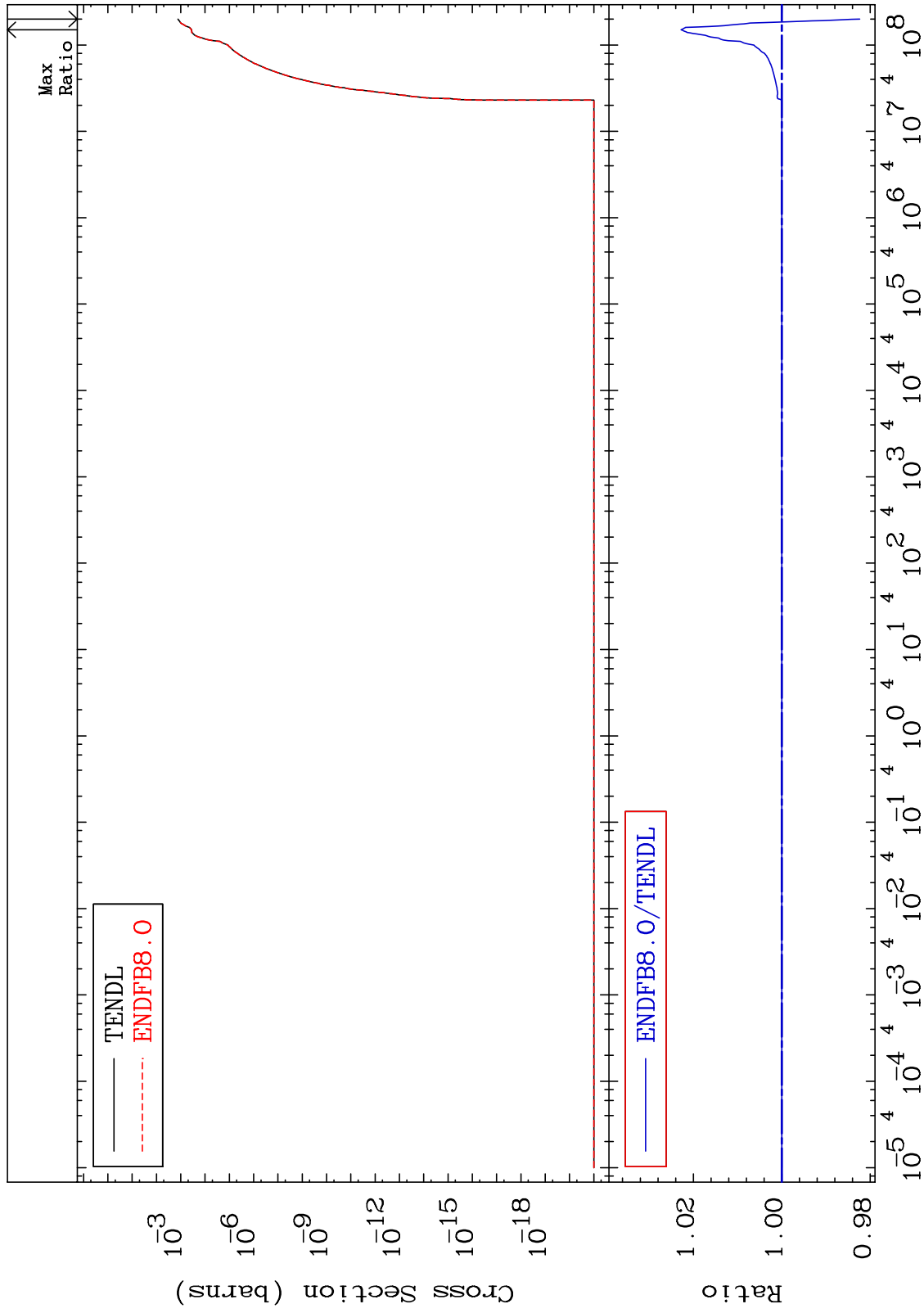
81-TI-204

MAT 8128

Fission:0-?-?-Nat

81-Tl-204

Radionuclide Production Cross Section -1.763 To 2.273 %



74

Incident Energy (eV)

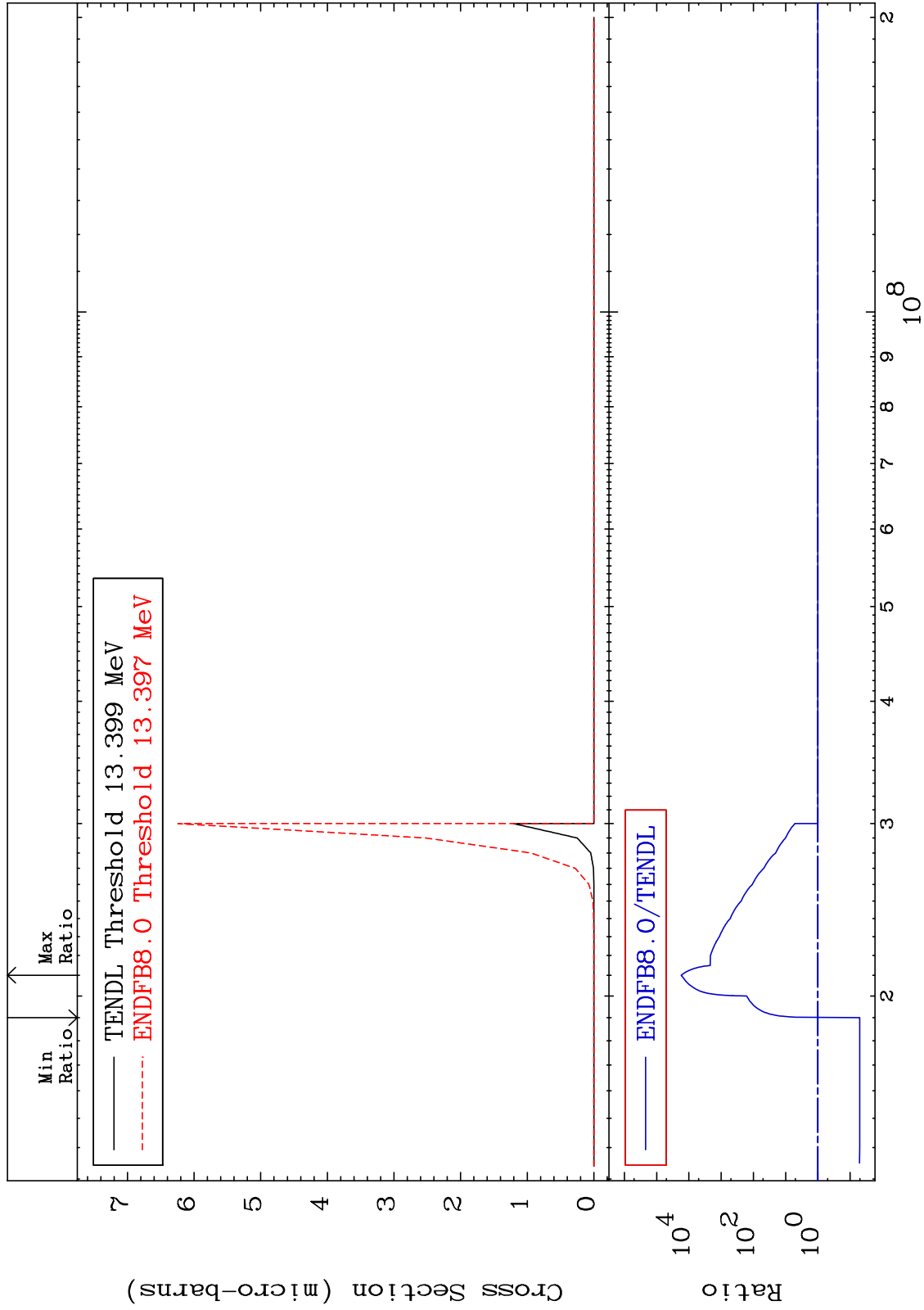
81-Tl-204

MAT 8128

(n,3n)  $\alpha$ :79-Au-198g

81-Tl-204

Radionuclide Production Cross Section -94.97 To 9999. %



75

Incident Energy (eV)

81-Tl-204

MAT 8128

(n,3n)  $\alpha$ :79-Au-198m10

81-Tl-204

Radionuclide Production Cross Section 0.000 To 9999. %

