

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

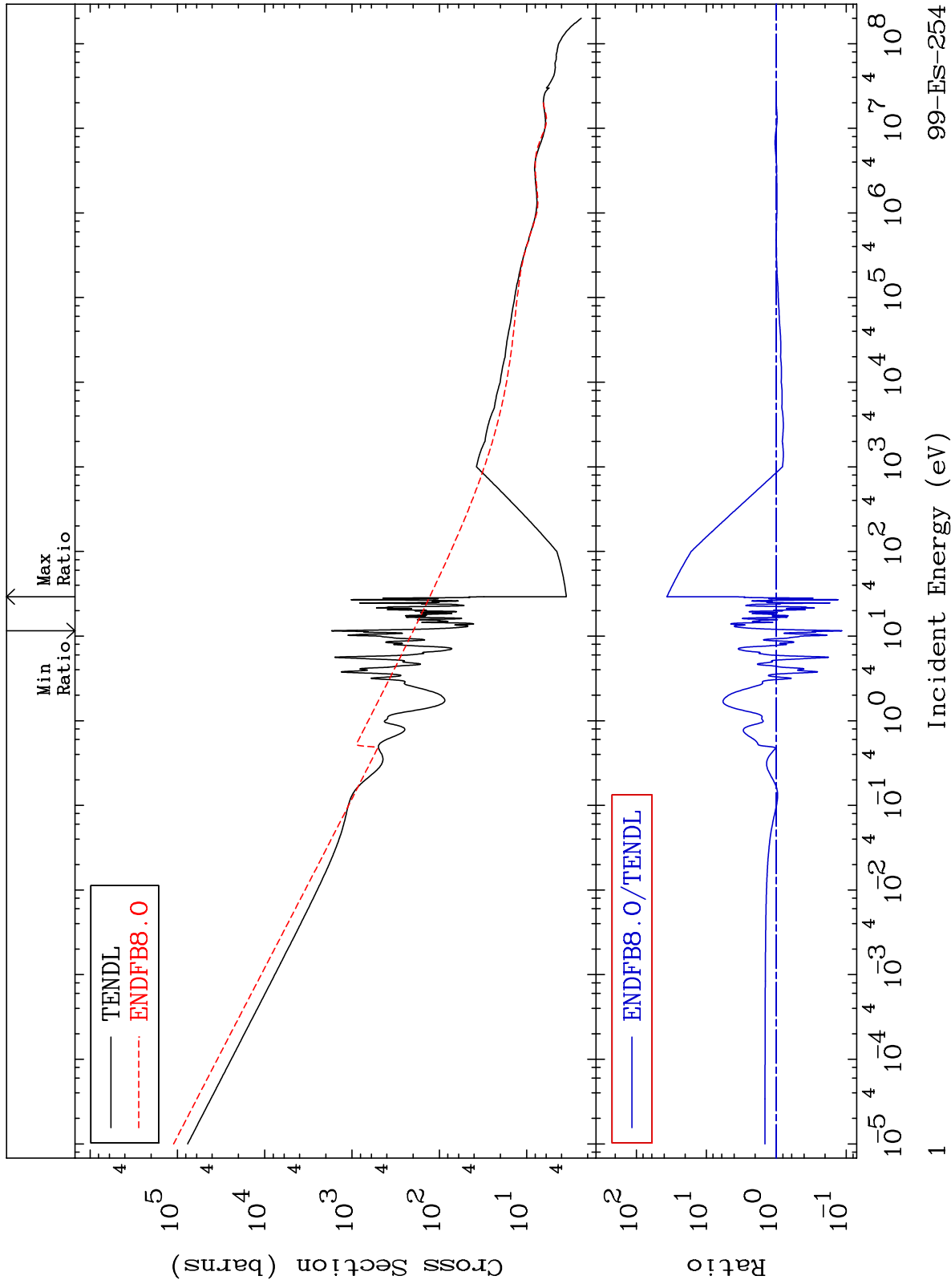
Press Mouse Button to Start

MAT 9914

99-Es-254

-88.44 To 3564. %

Total  
Cross Section



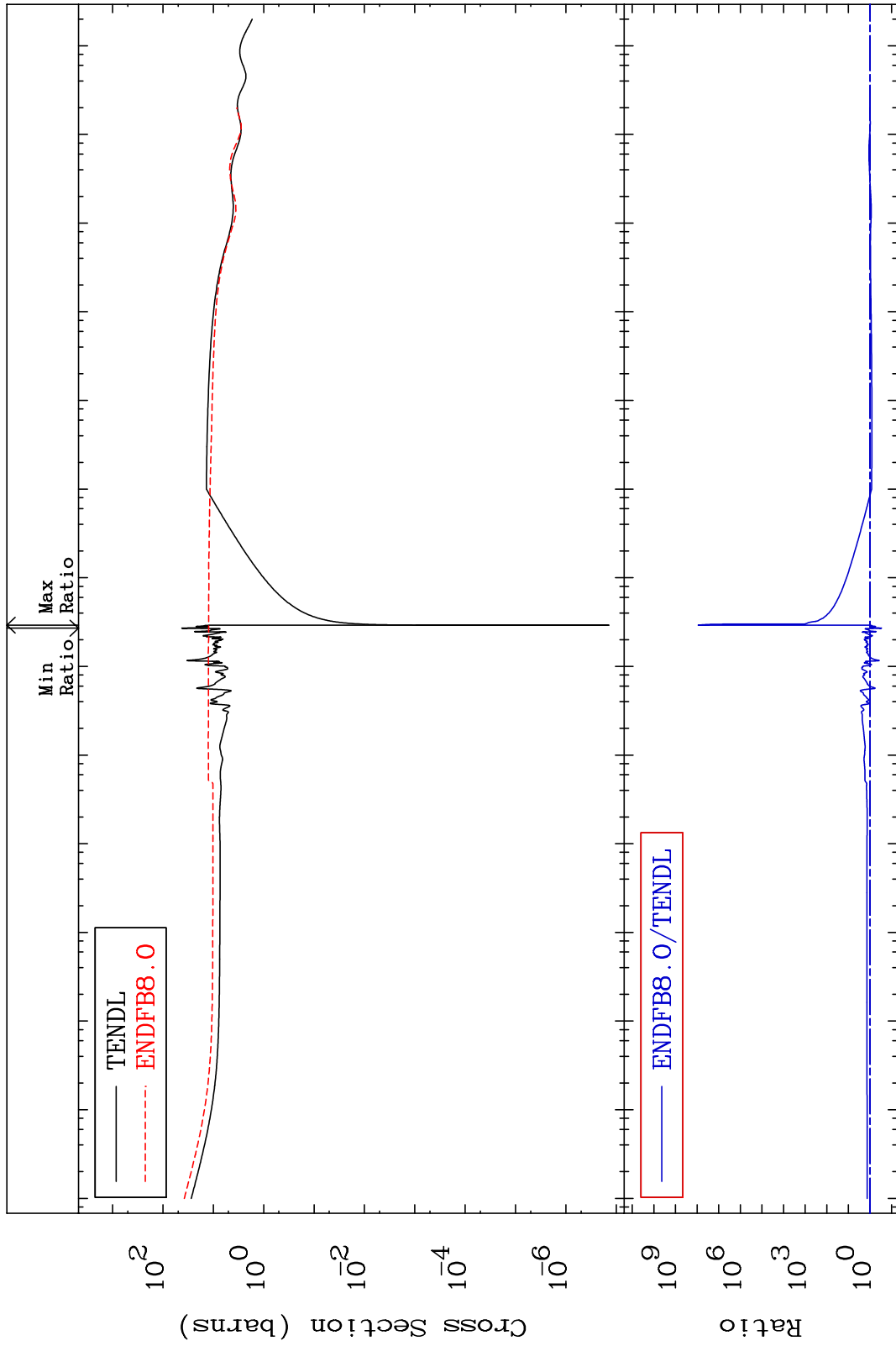
MAT 9914

Elastic

99-Es-254

-70.64 To 9999. %

Cross Section



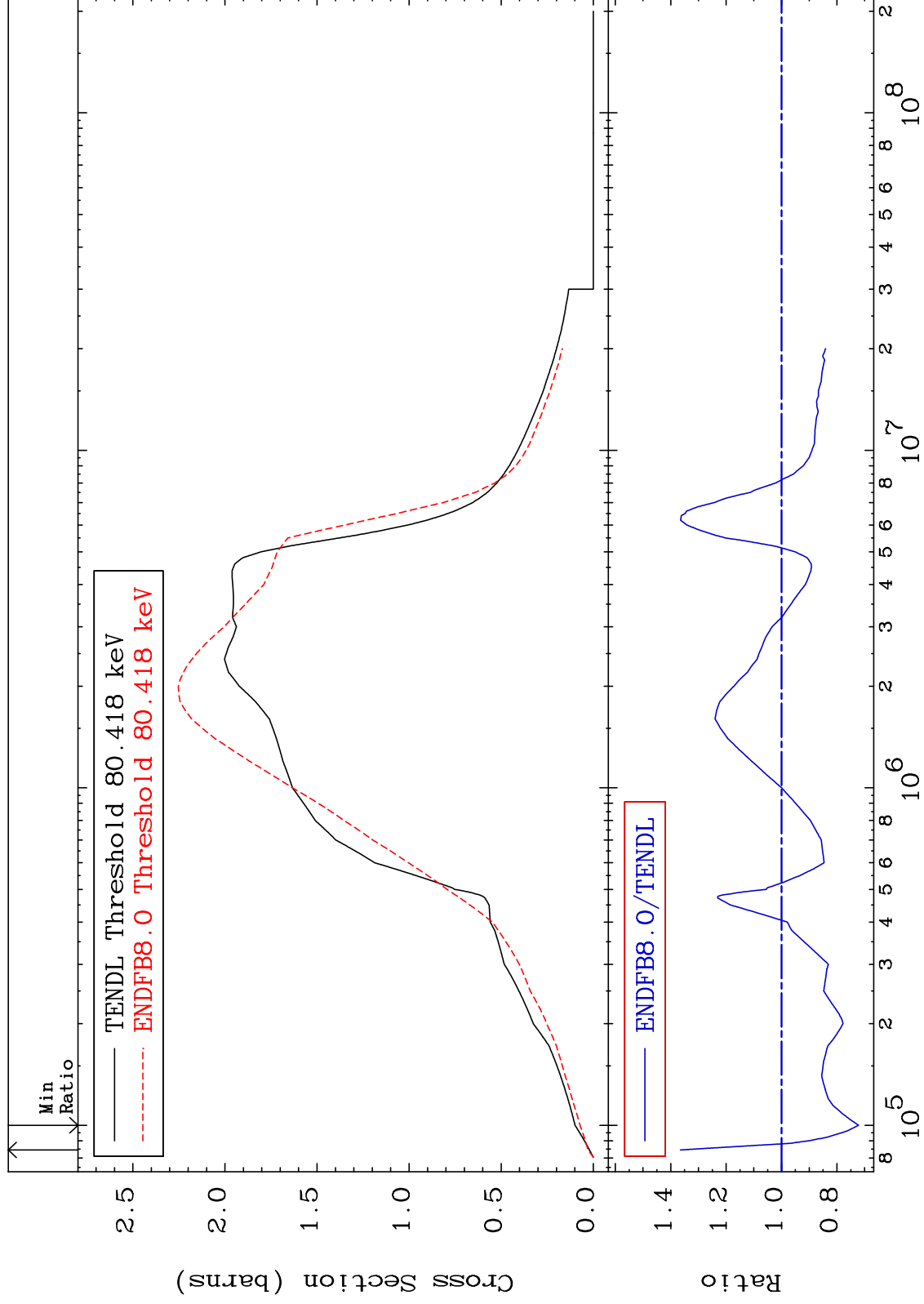
99-Es-254

Incident Energy (eV)

MAT 9914

Inelastic  
Cross Section

99-Es-254  
-27.79 To 36.49 %

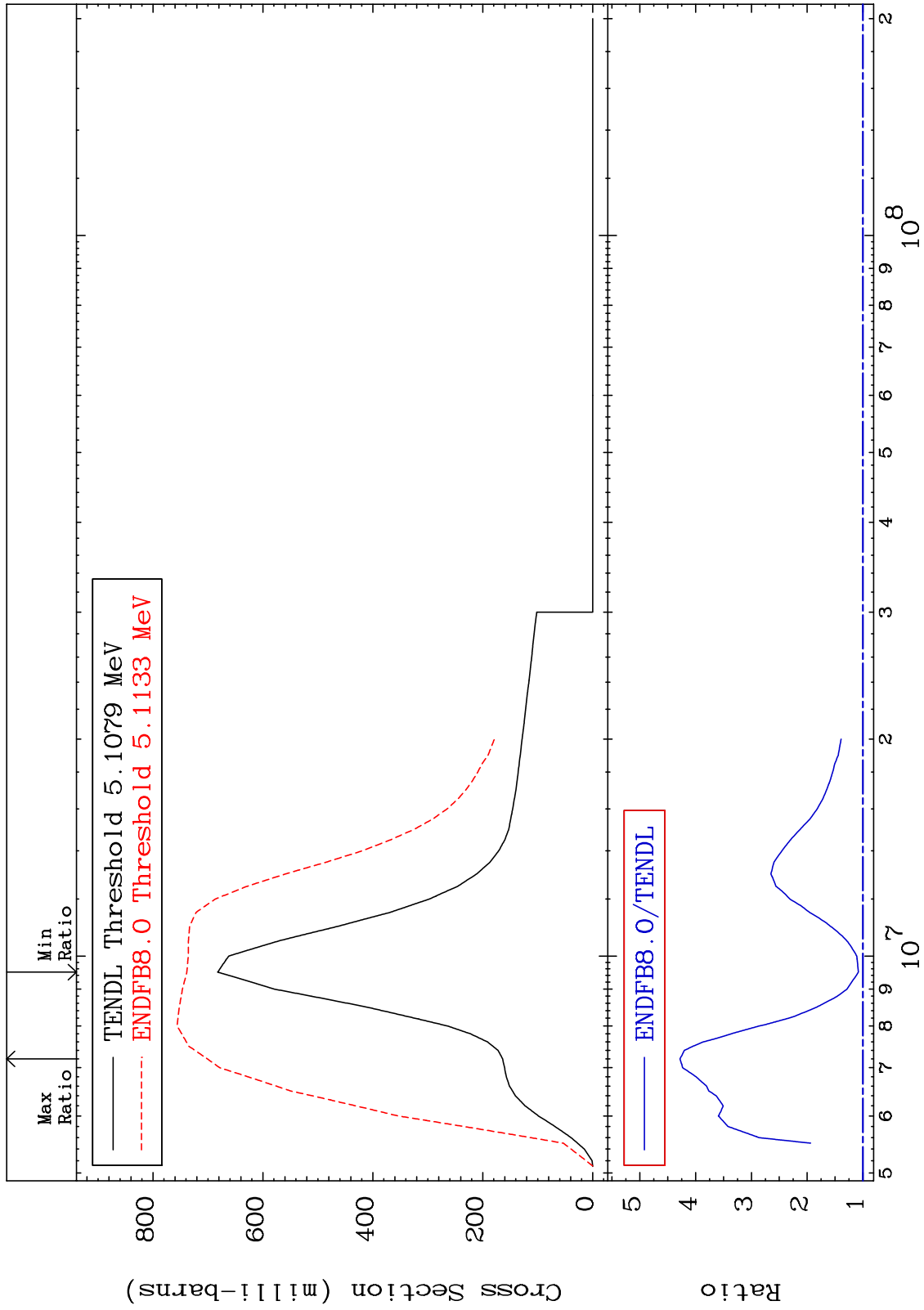


Incident Energy (eV)

99-Es-254

3

MAT 9914 (n,2n) Cross Section 99-Es-254 To 327.9 %  
8.218



99-Es-254

Incident Energy (eV)

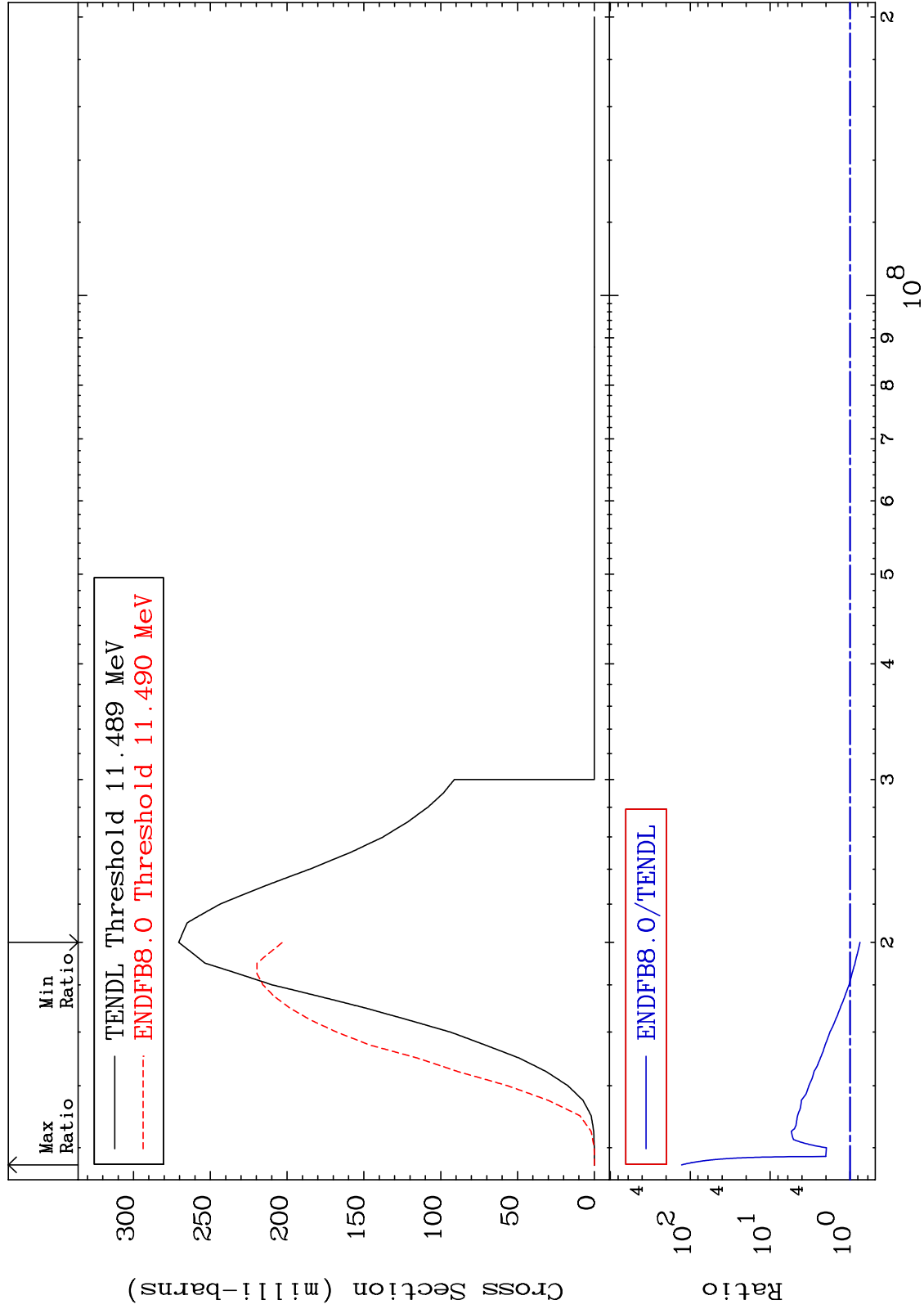
MAT 9914

(n,3n)

99-Es-254

Cross Section

-24.97 To 9999. %



Incident Energy (eV)

99-Es-254

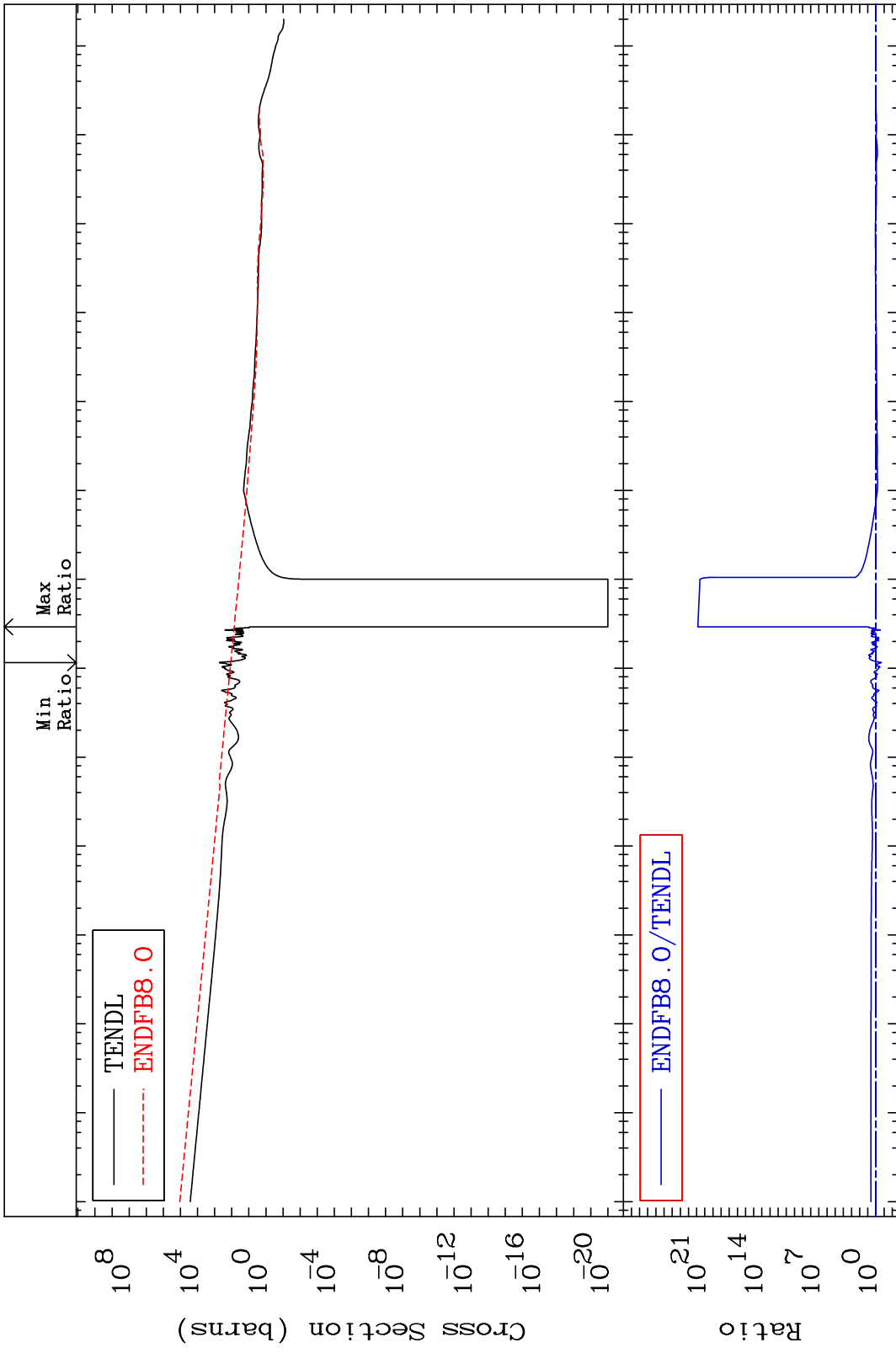
5

MAT 9914

99-Es-254

-79.29 To 9999. %

Fission  
Cross Section



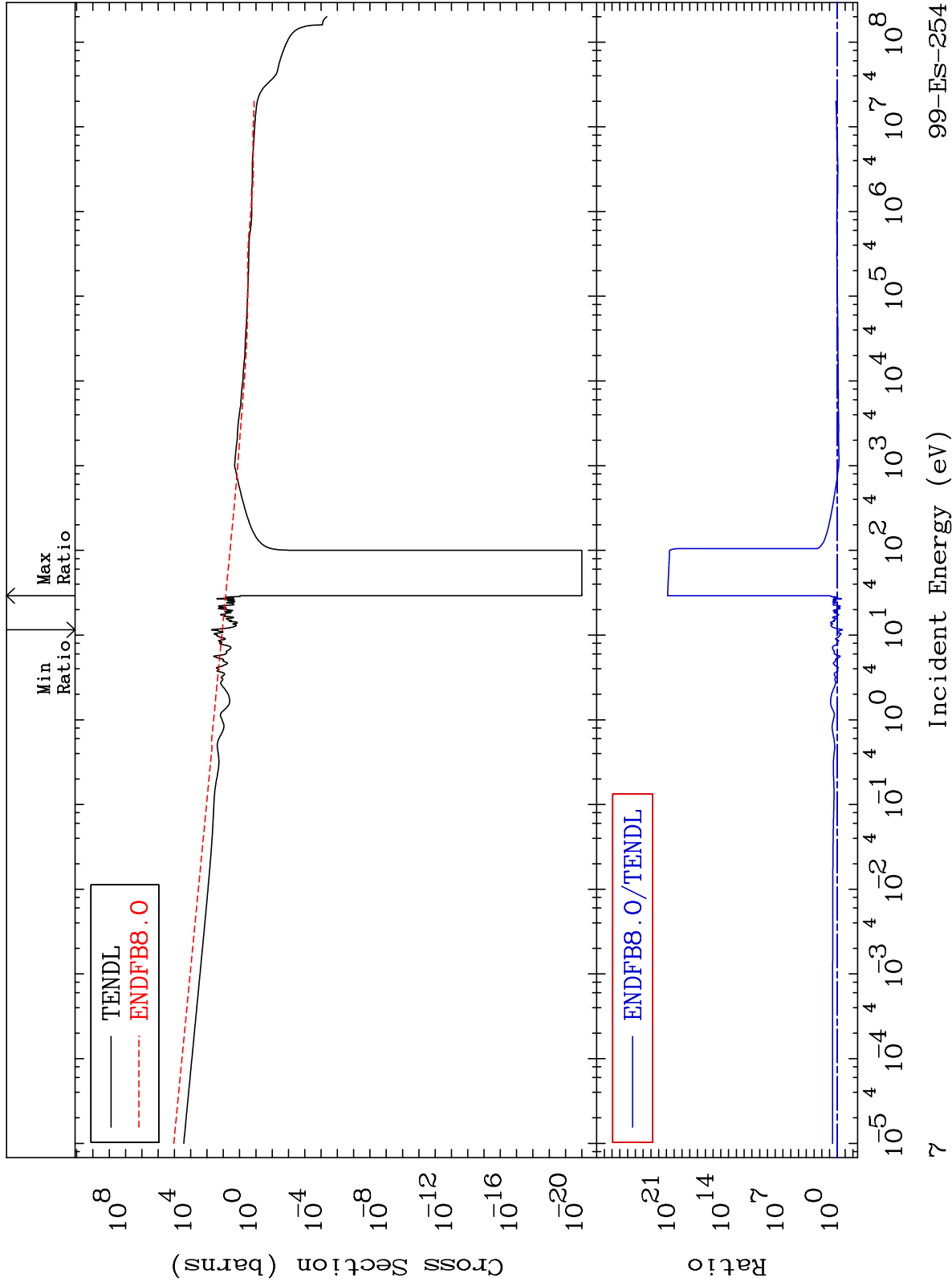
99-Es-254

Incident Energy (eV)

MAT 9914

(n, f) First Chance  
Cross Section

99-Es-254  
-79.29 To 9999. %



99-Es-254

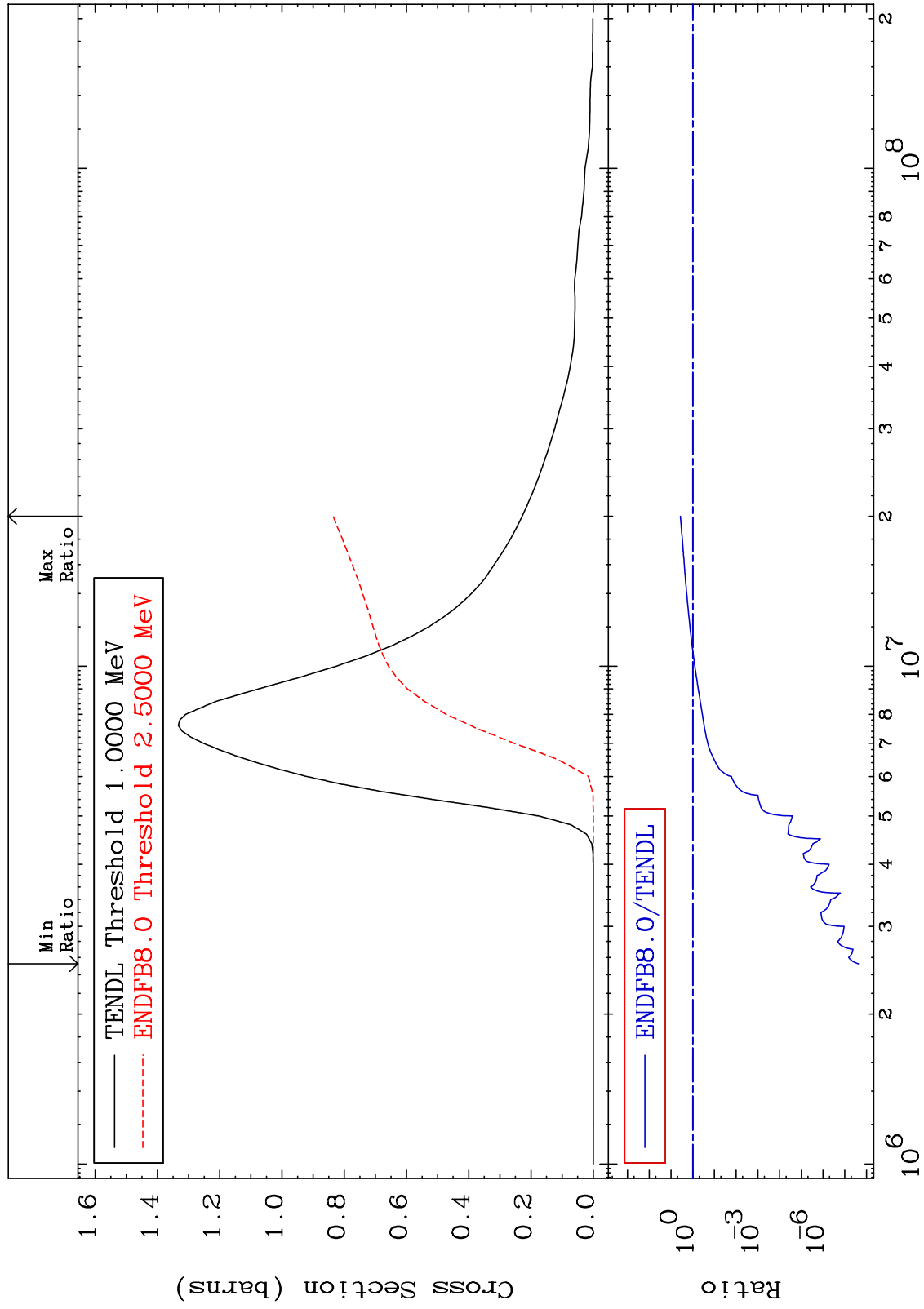
7



MAT 9914

(n, nf) Second Chance  
Cross Section

99-Es-254  
-100.0 To 265.8 %



8

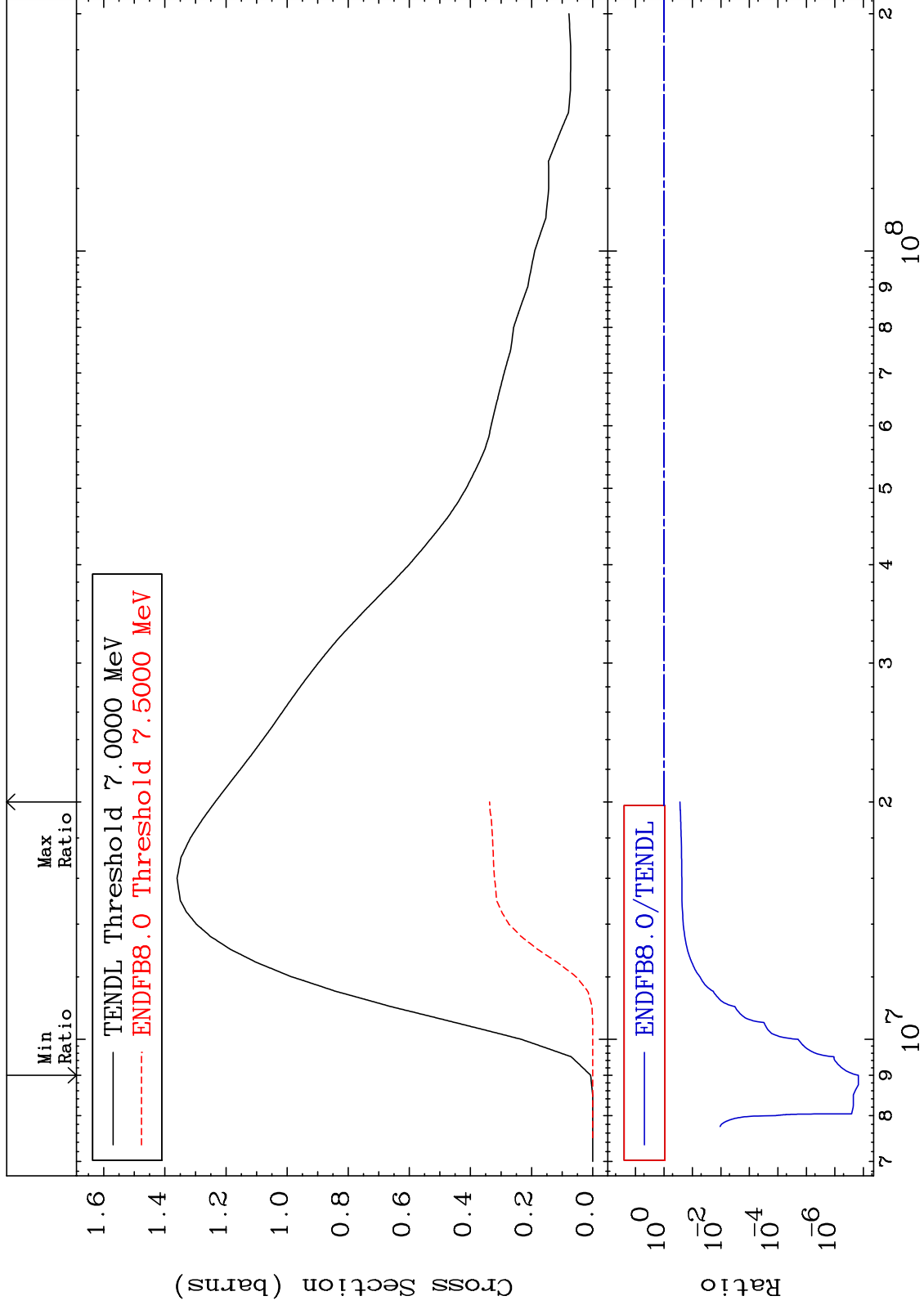
Incident Energy (eV)

99-Es-254

MAT 9914

(n,2nf) Third Chance  
Cross Section

99-Es-254  
-100.0 To -72.67%



9

Incident Energy (eV)

99-Es-254

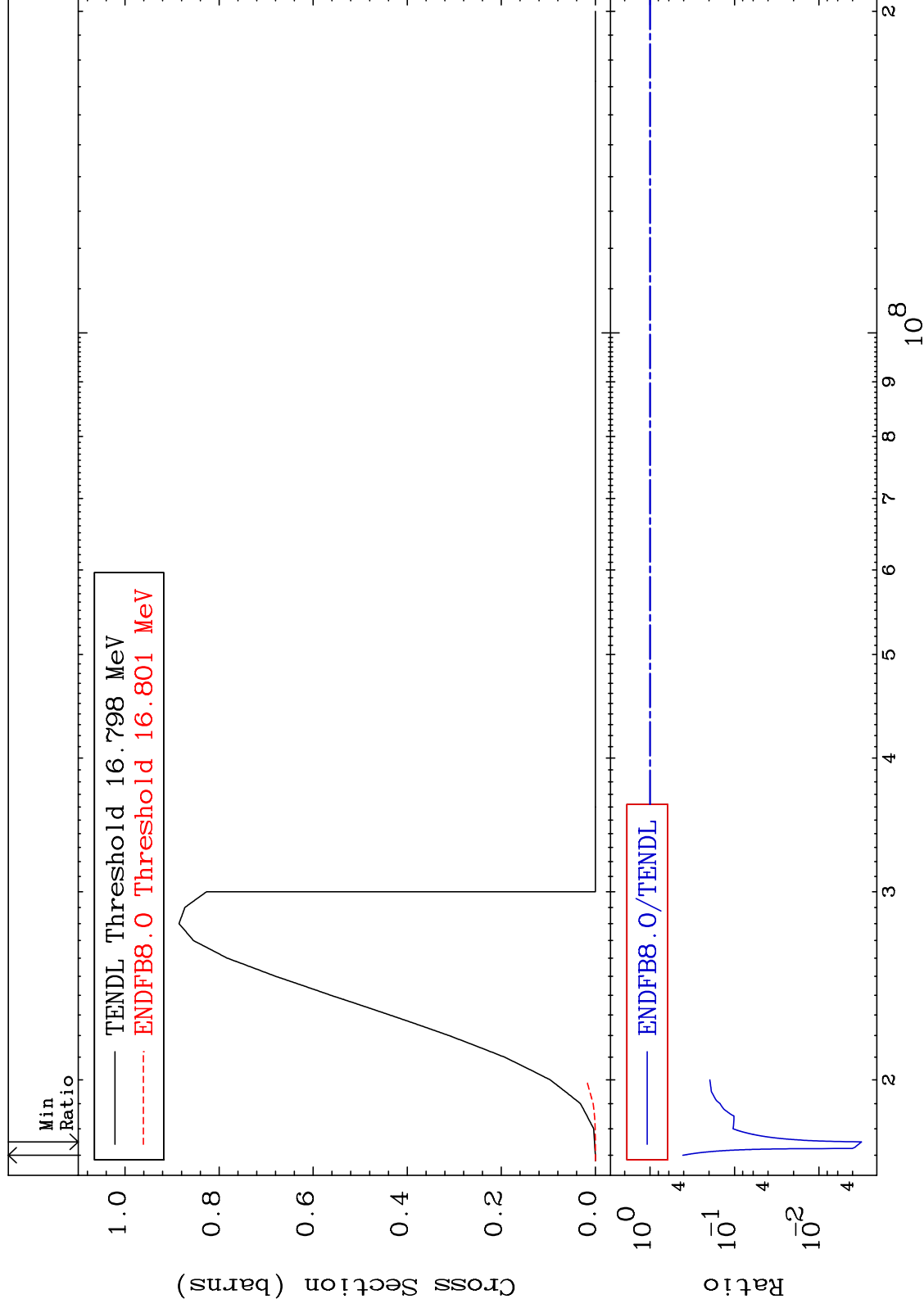
MAT 9914

(n, 4n)

99-Es-254

Cross Section

-99.69 To -59.08%



10

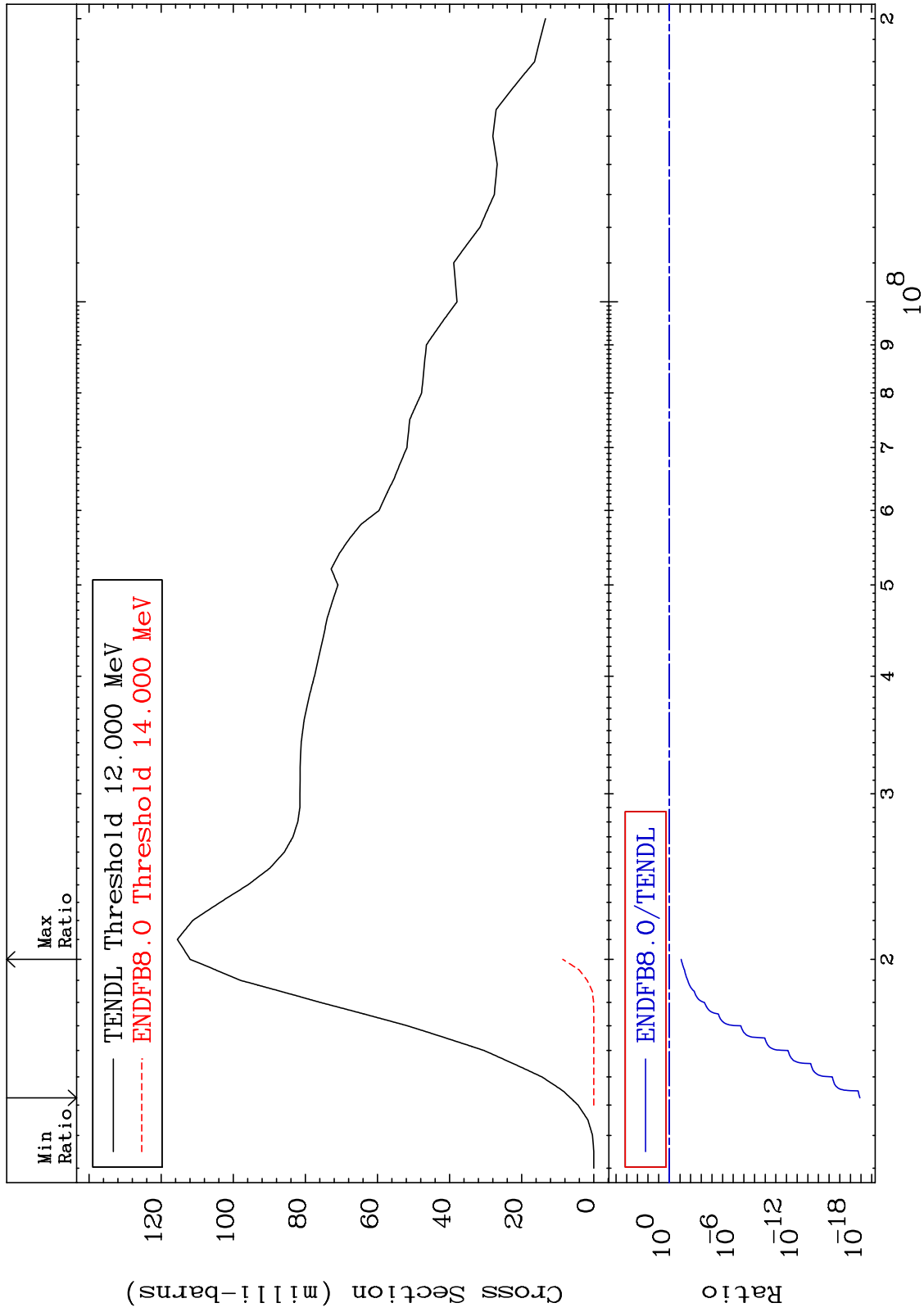
Incident Energy (eV)

99-Es-254

MAT 9914

(n,3nf) Fourth Chance  
Cross Section

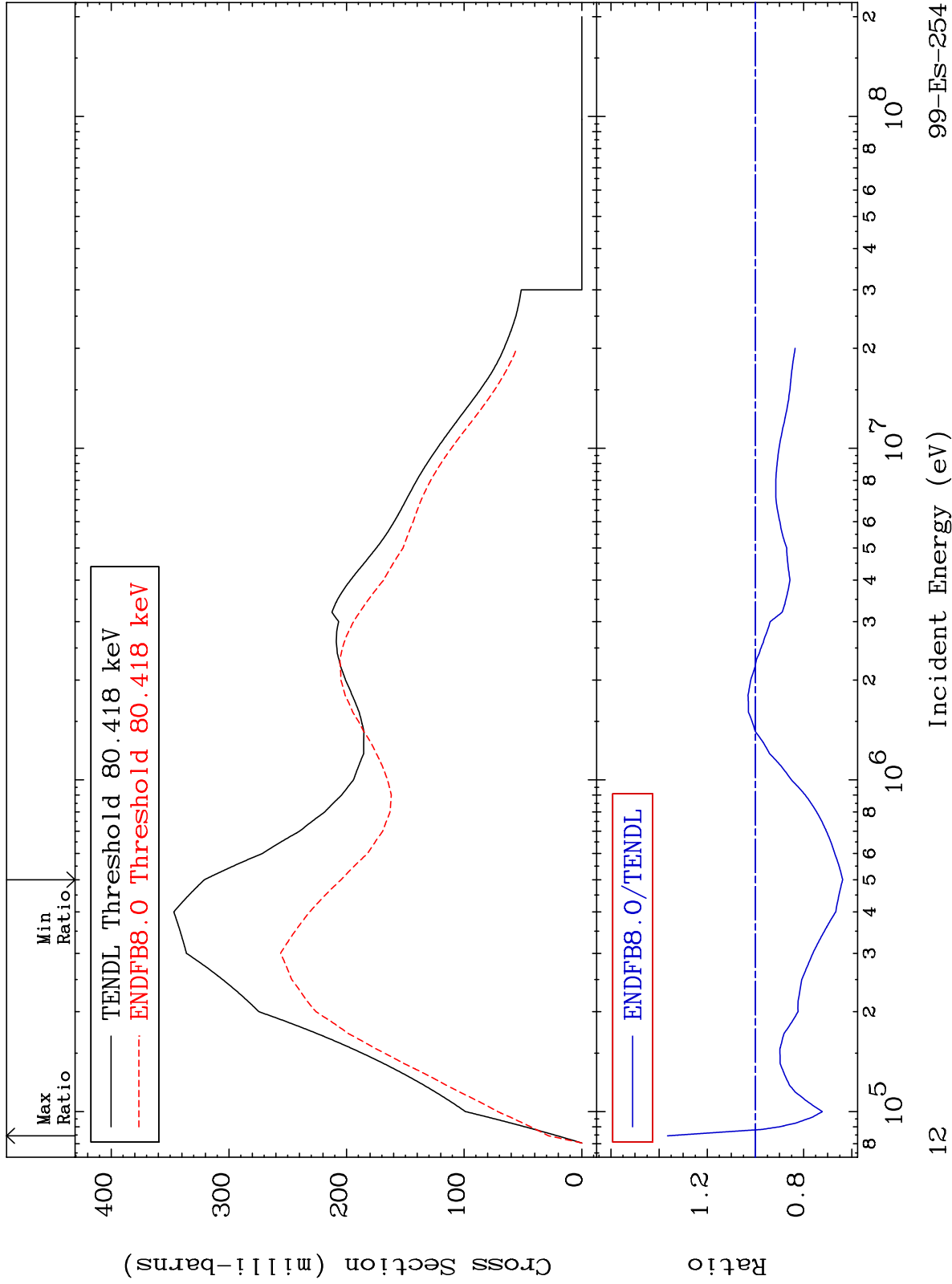
99-Es-254  
-100.0 To -92.33%



MAT 9914

MT= 51 (n,n') Level  
Cross Section

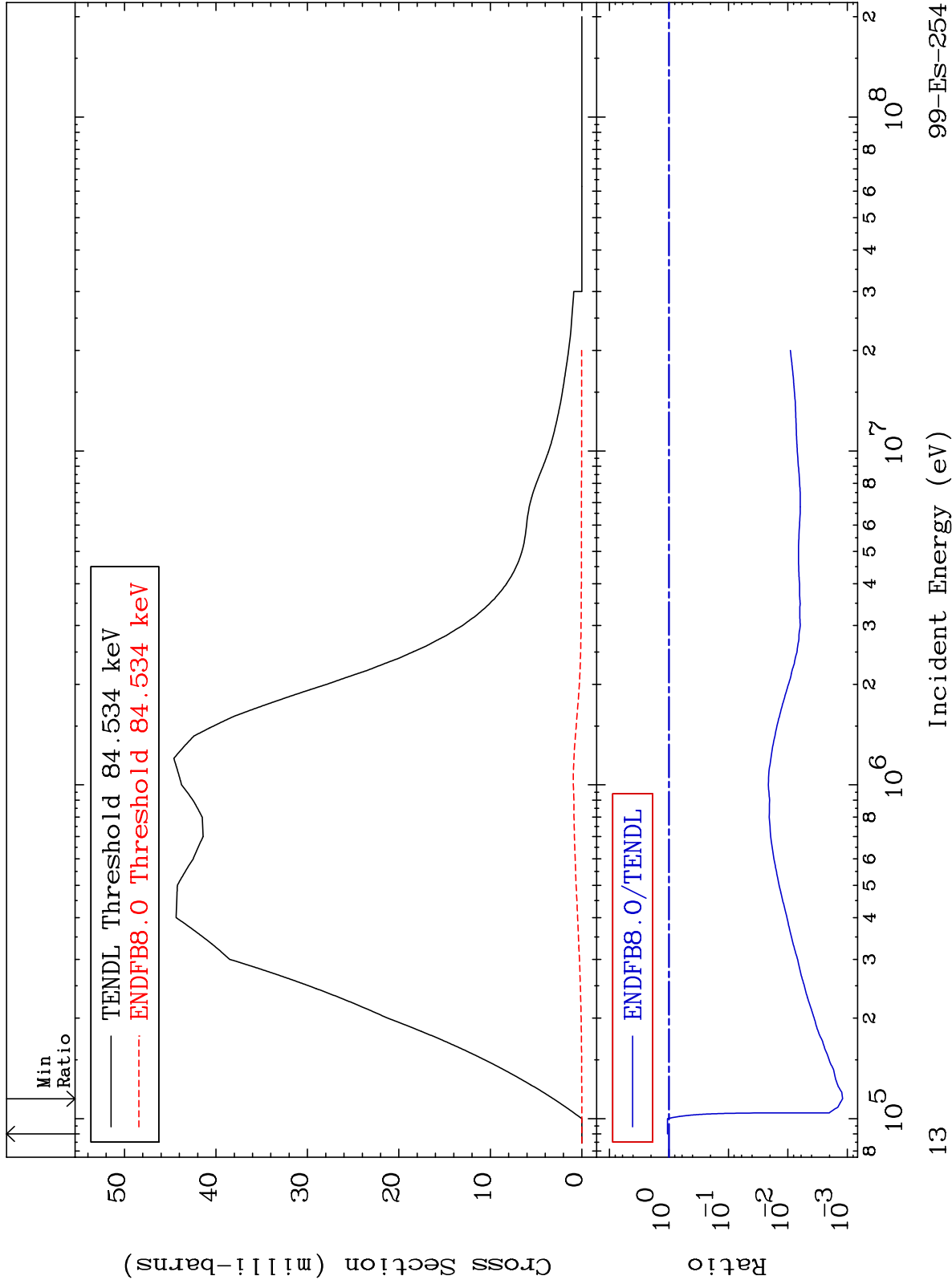
99-Es-254  
-36.22 To 36.49 %



MAT 9914

MT= 52 (n,n') Level  
Cross Section

99-Es-254  
-99.88 To 5.391 %



99-Es-254

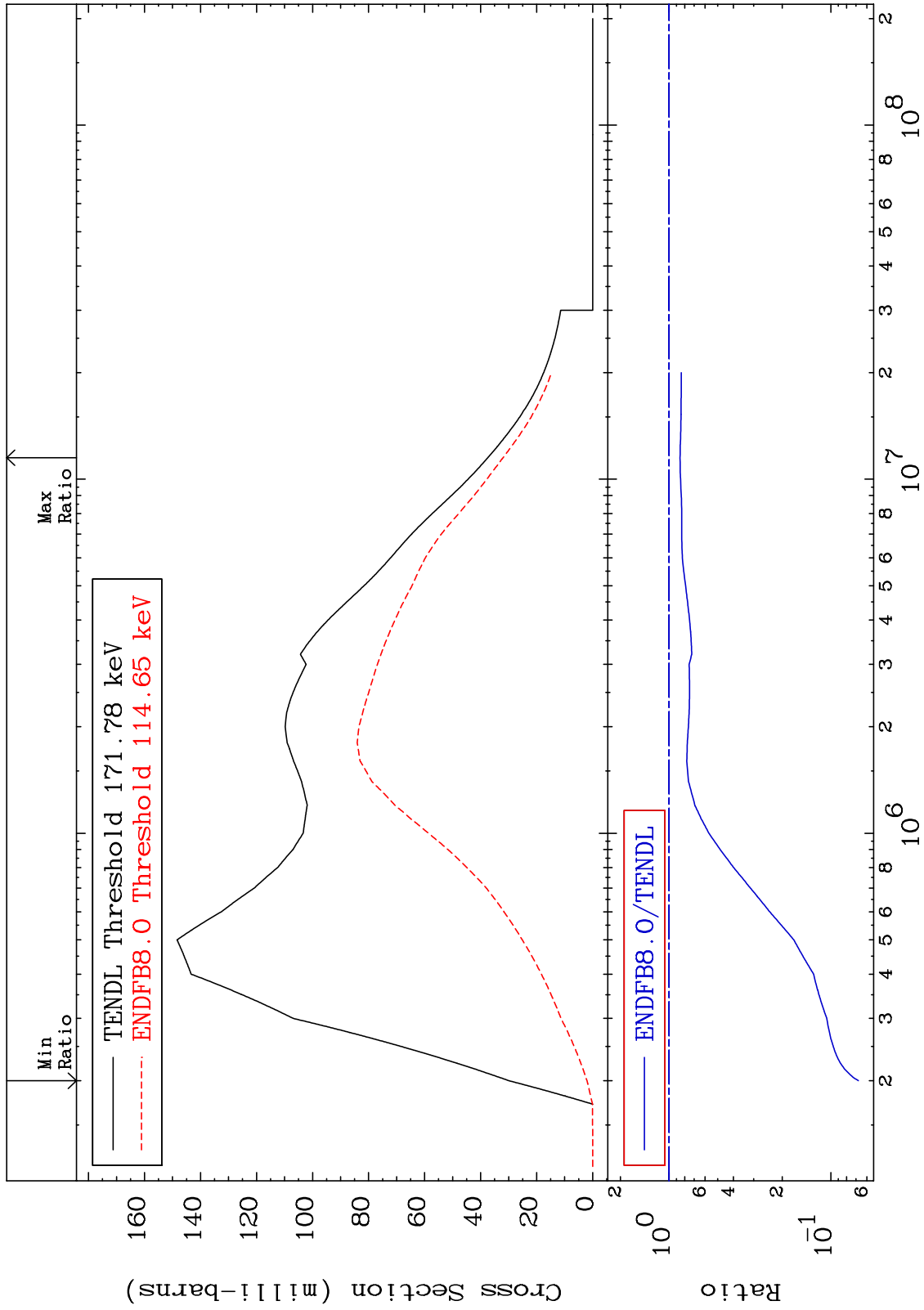
Incident Energy (eV)

13

MAT 9914

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

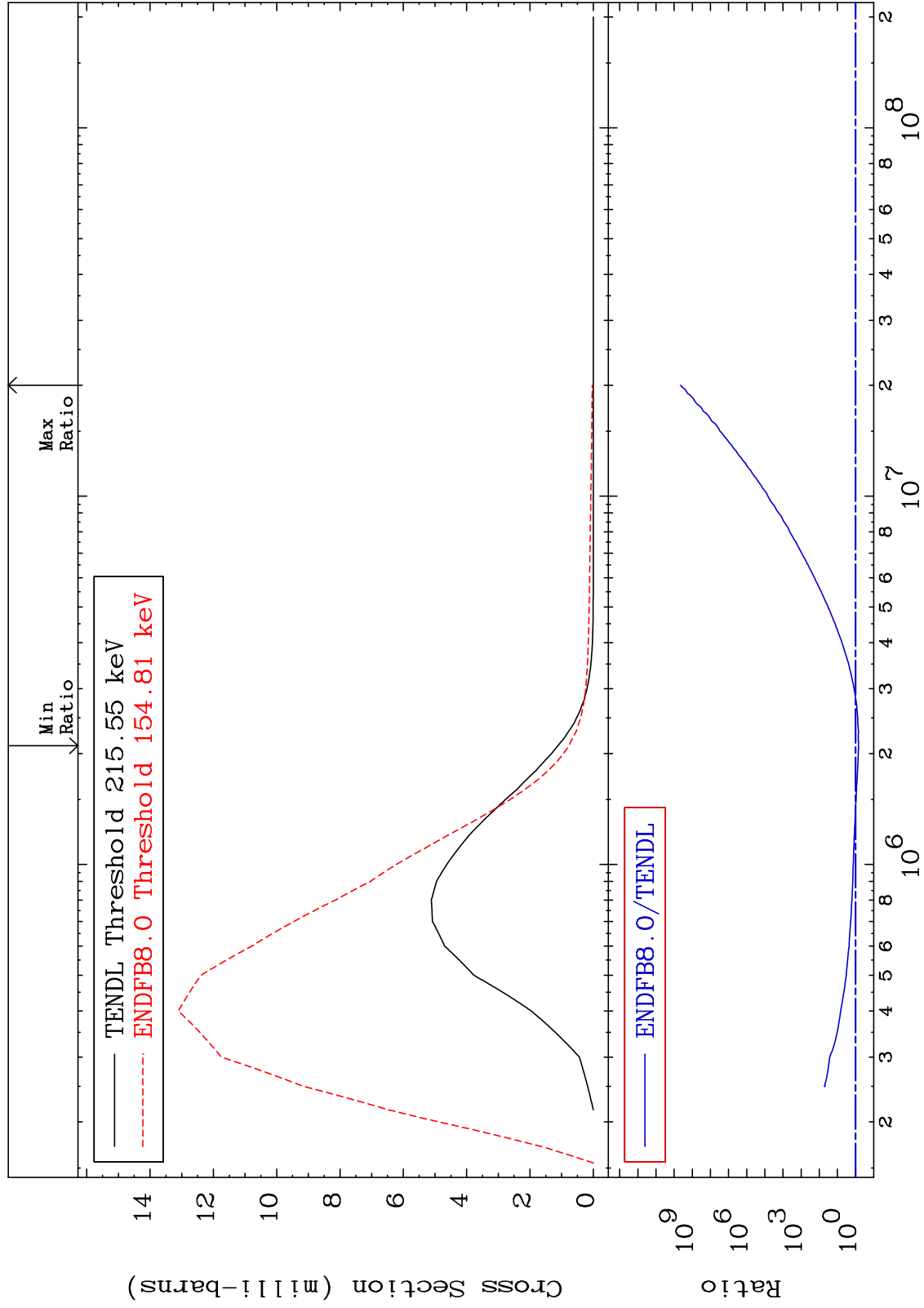
99-Es-254  
-93.24 To -14.42%



MAT 9914

MT= 54 (n,n') Level  
Cross Section

99-Es-254  
-31.15 To 9999. %

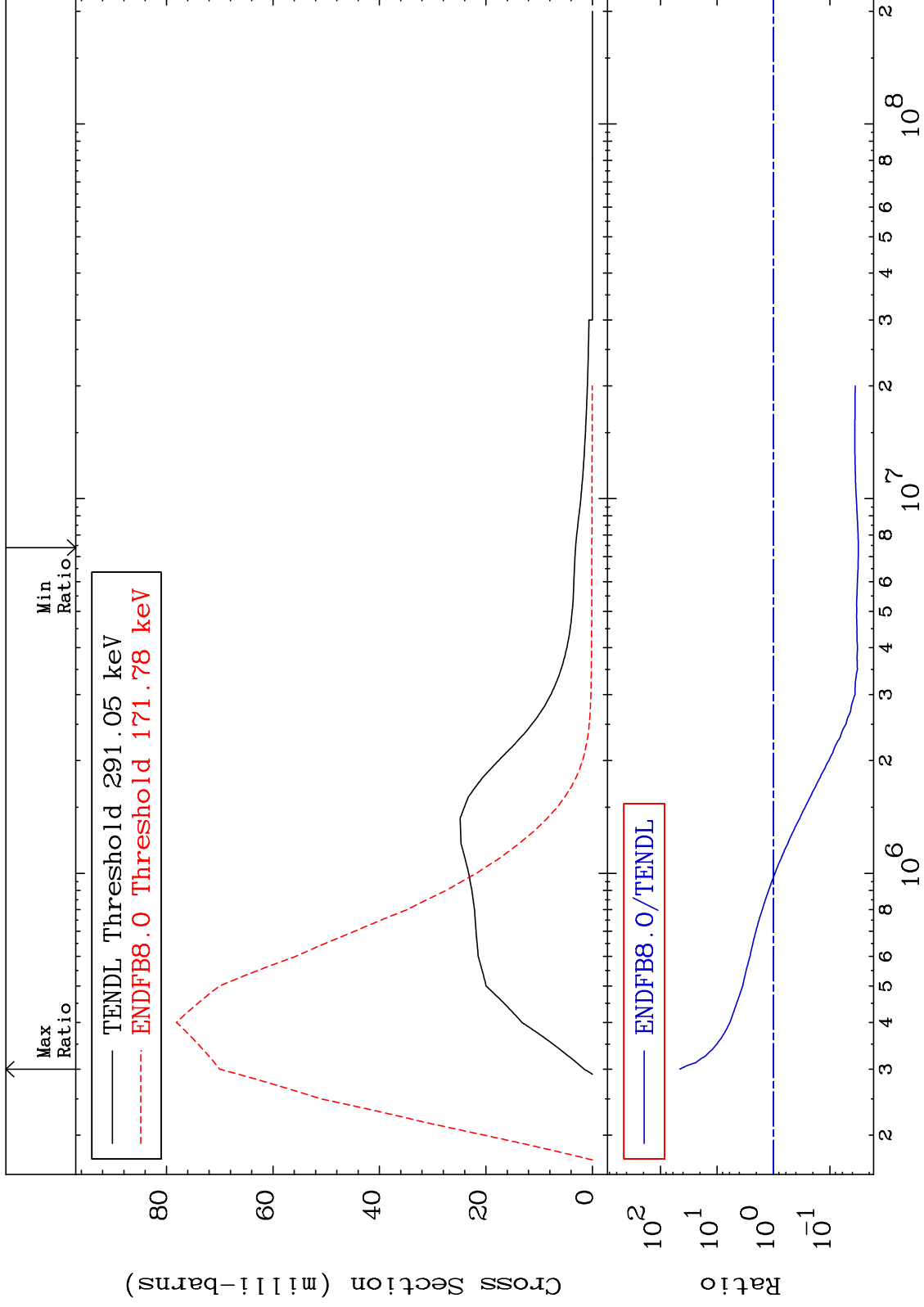




MAT 9914

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

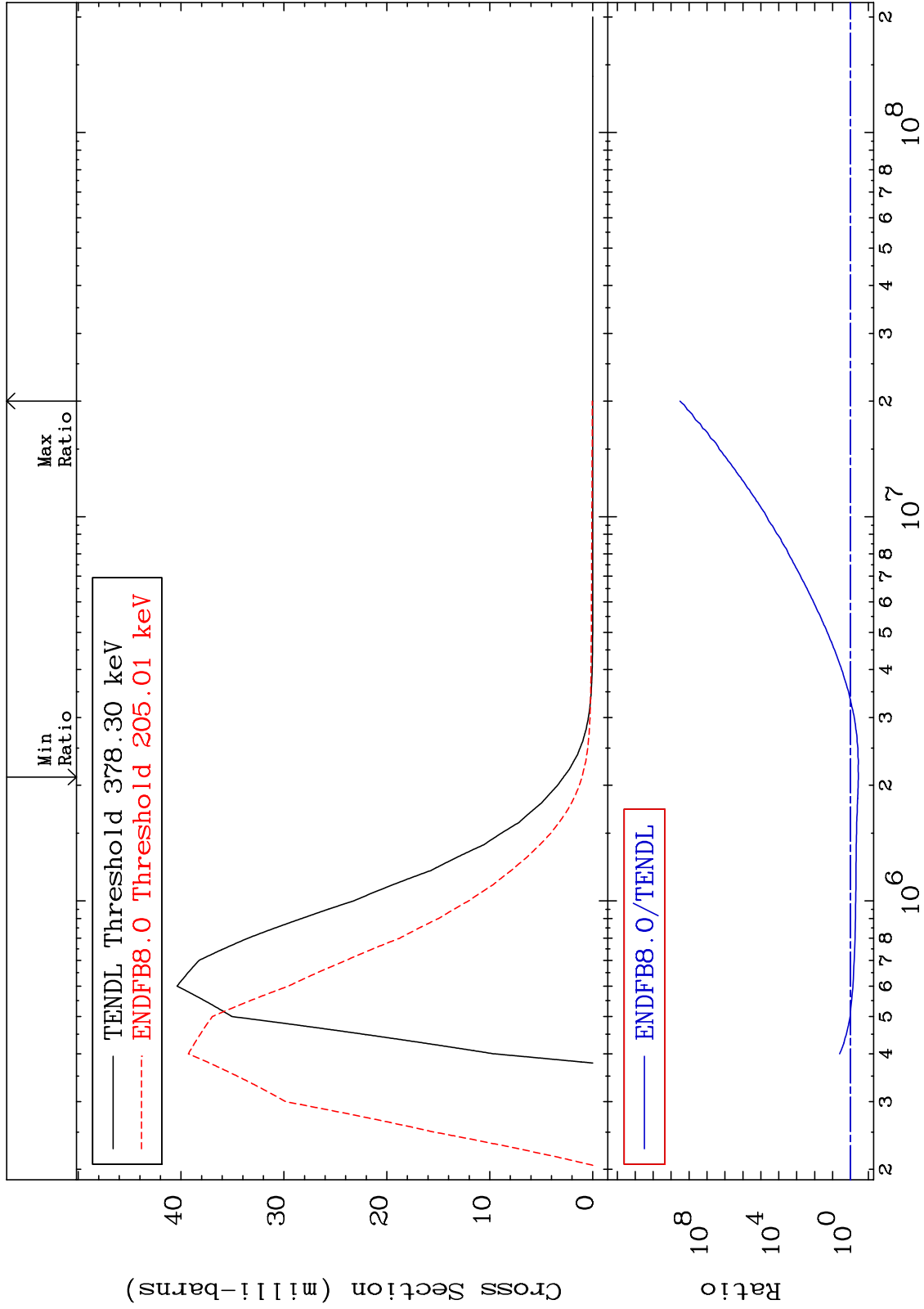
99-Es-254  
-96.87 To 4453. %



MAT 9914

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

99-Es-254  
-63.50 To 9999. %



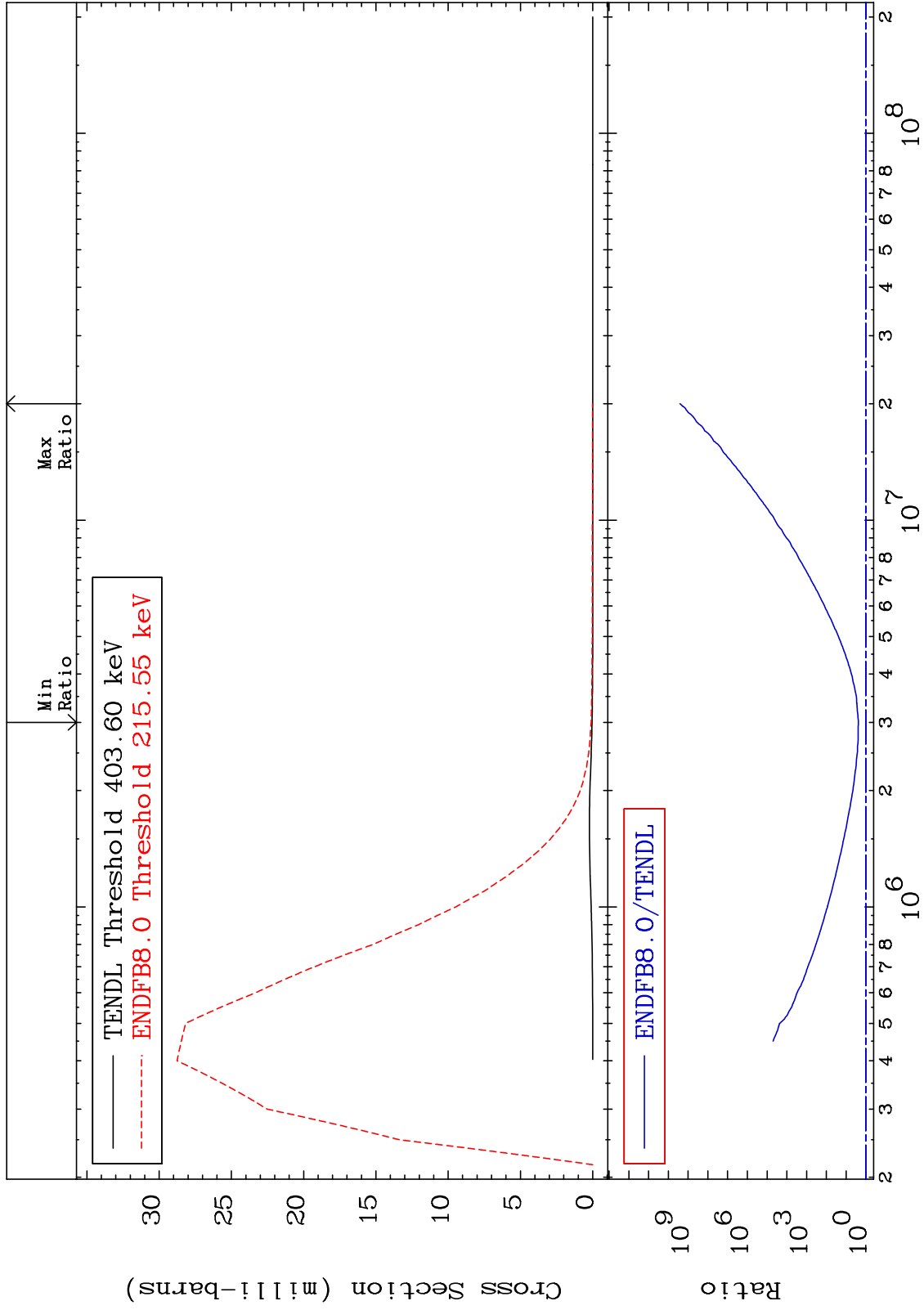
MAT 9914

MT= 57 (n,n') Level

99-Es-254

137.7 To 9999. %

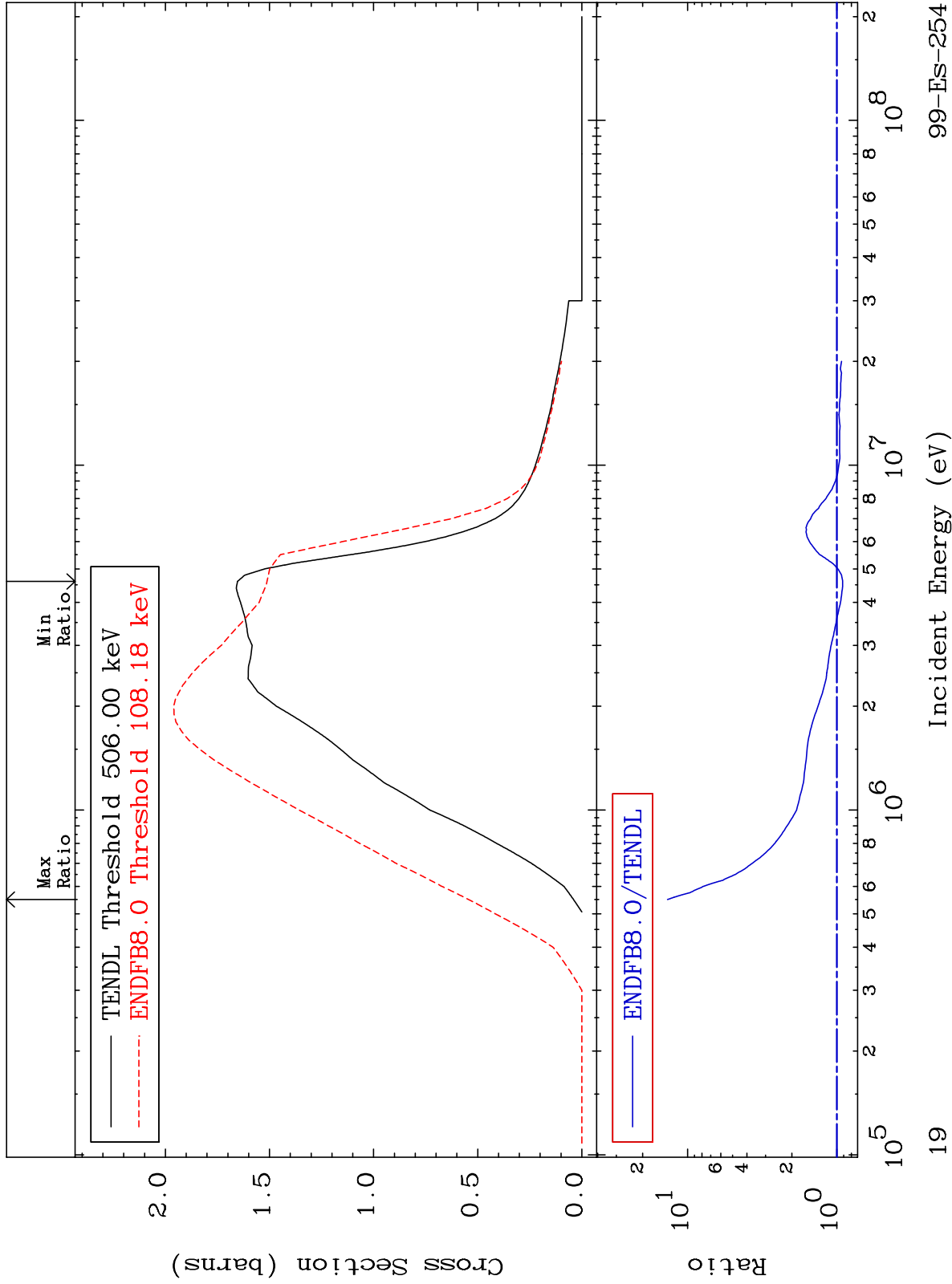
Cross Section



MAT 9914

(n, n') Continuum  
Cross Section

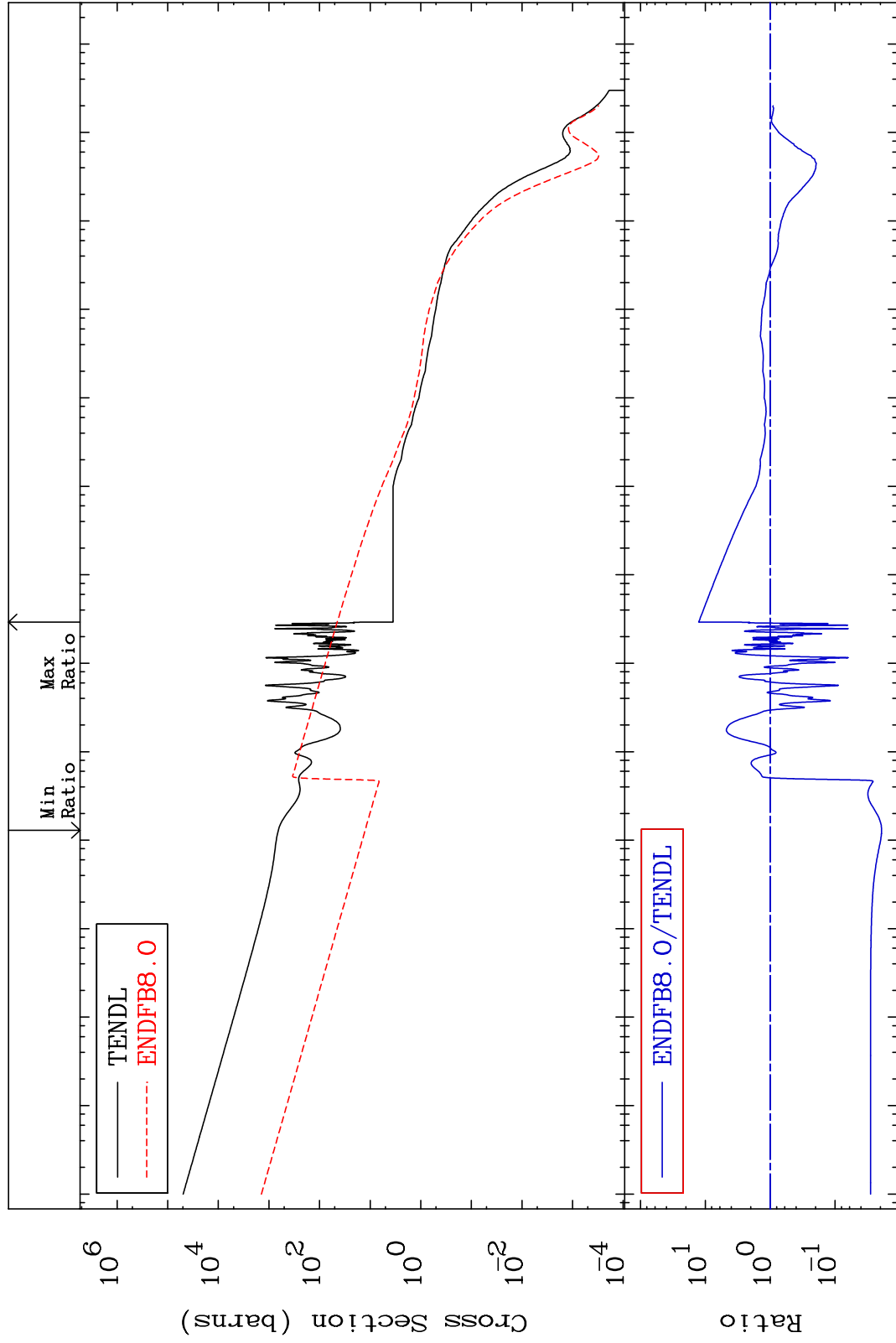
99-Es-254  
-8.565 To 1262. %



MAT 9914

(n,  $\gamma$ )  
Cross Section

99-Es-254  
-98.08 To 1169. %



20

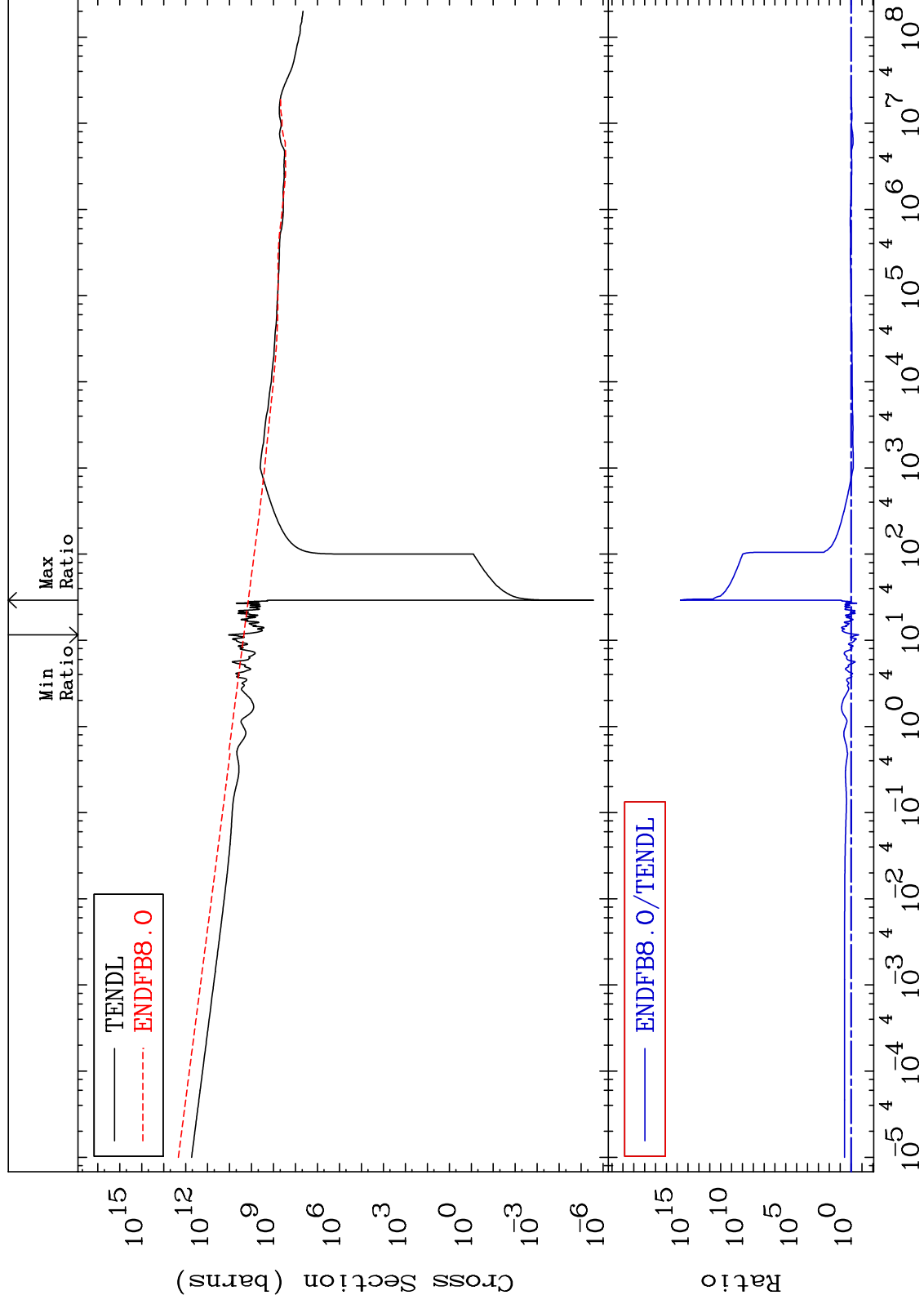
Incident Energy (eV)

99-Es-254

MAT 9914

Kerma total (eV-barns)  
Cross Section

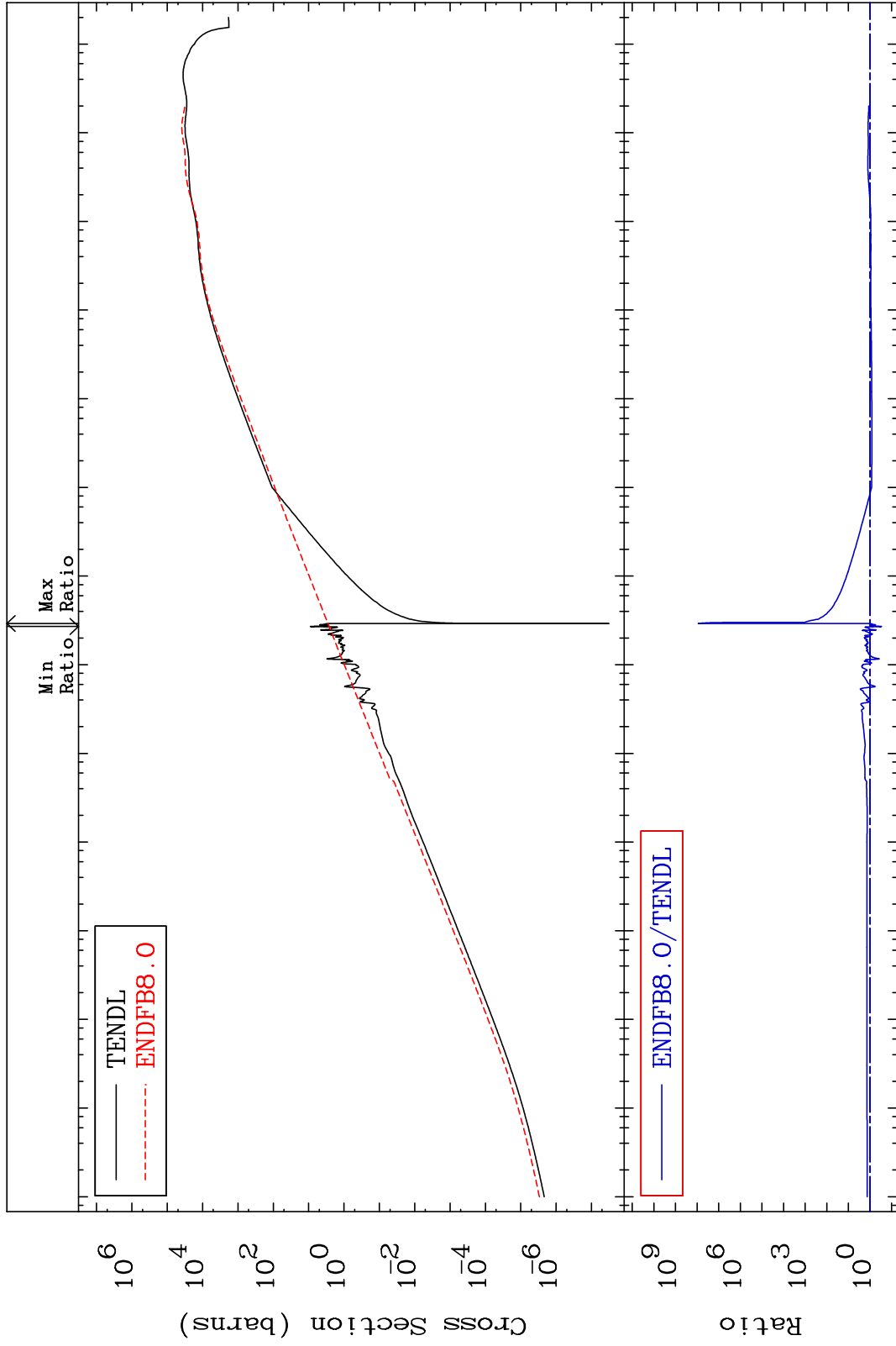
99-Es-254  
-79.64 To 9999. %



MAT 9914

Kerma elastic  
Cross Section

99-Es-254  
-70.65 To 9999. %



22

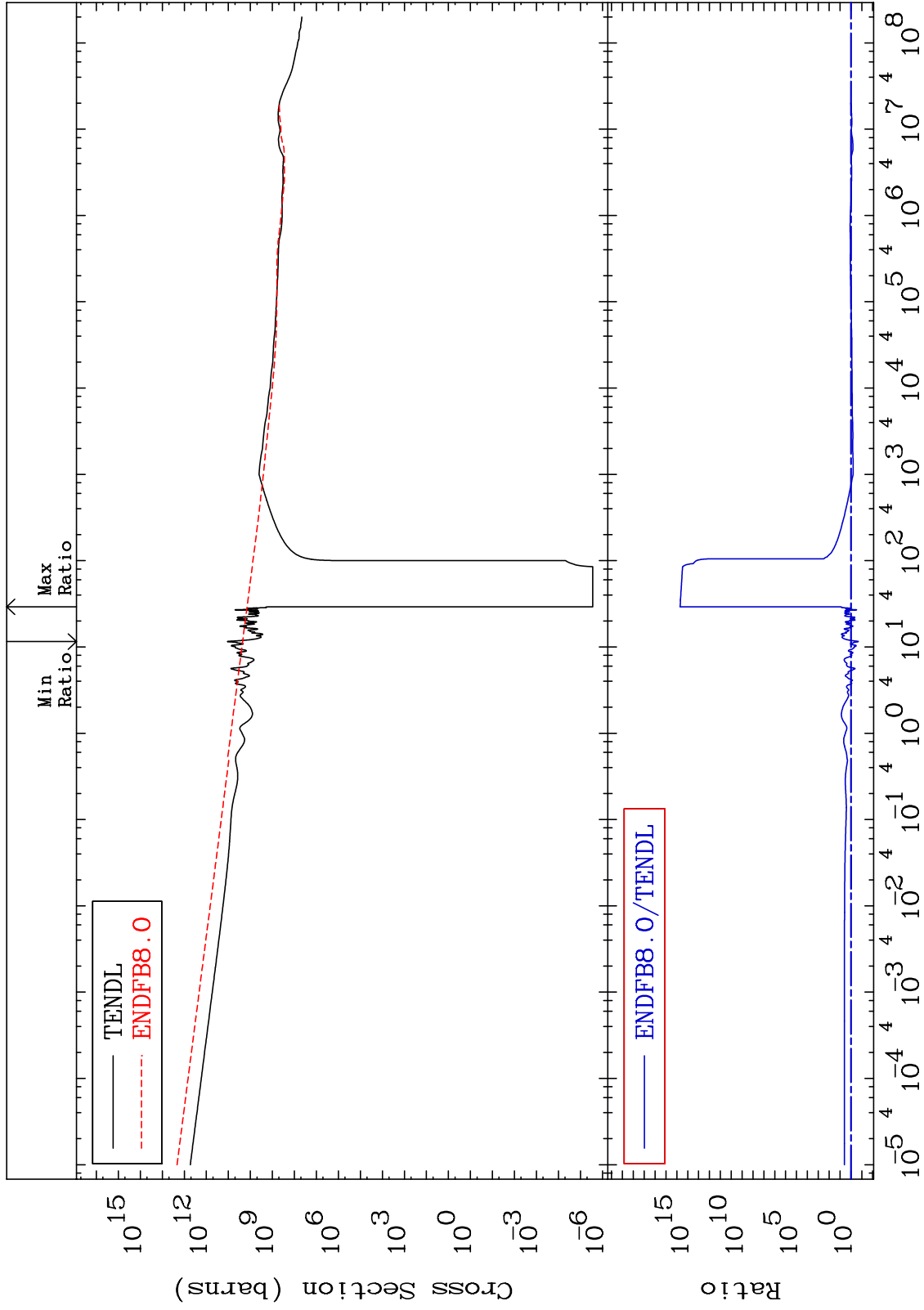
Incident Energy (eV)

99-Es-254

MAT 9914

Kerma non-elastic (all but mt2)  
Cross Section

99-Es-254  
-79.64 To 9999. %

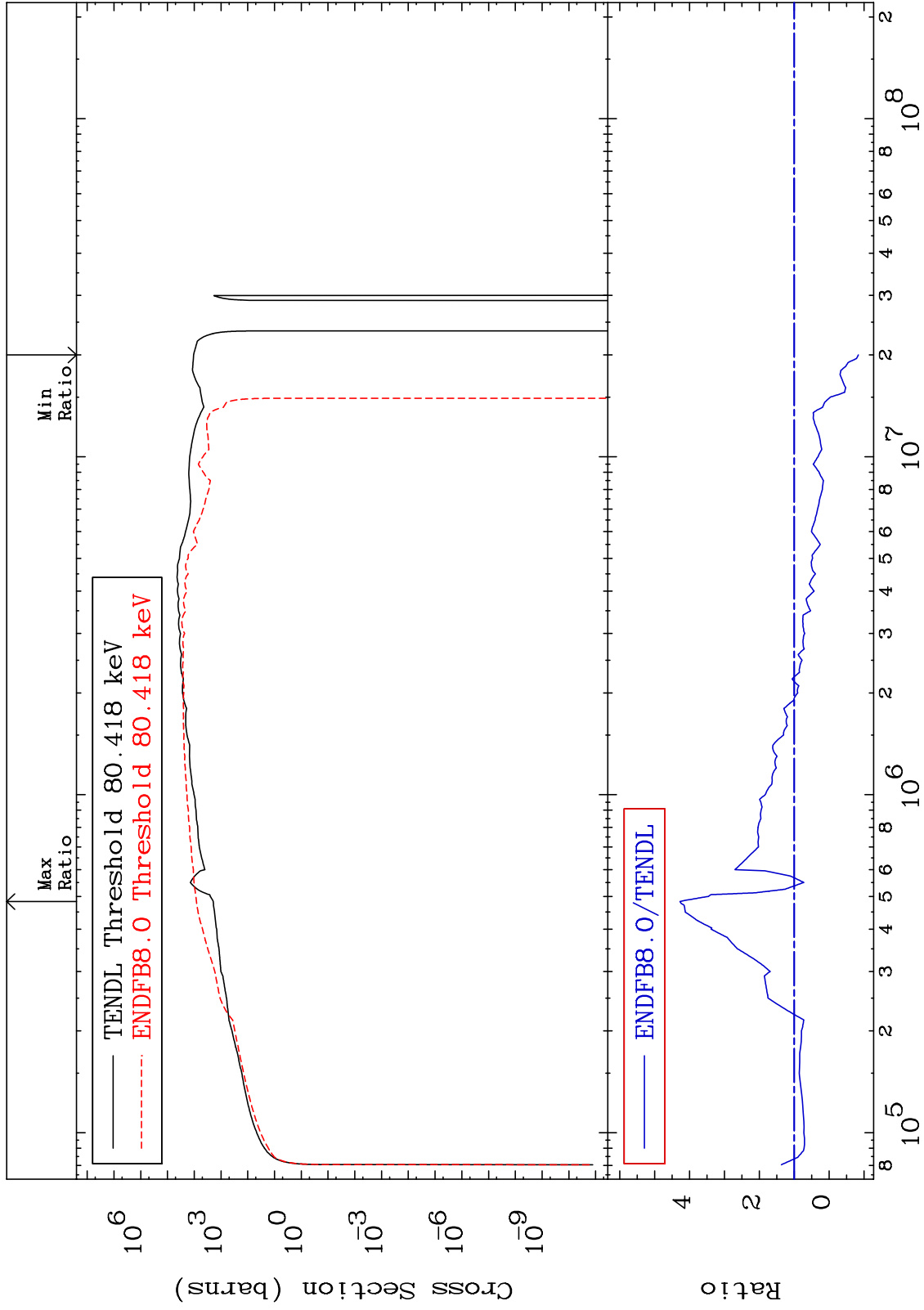




MAT 9914

Kerma inelastic (mt51-91)  
Cross Section

99-Es-254  
-184.1 To 327.1 %



24

Incident Energy (eV)

99-Es-254

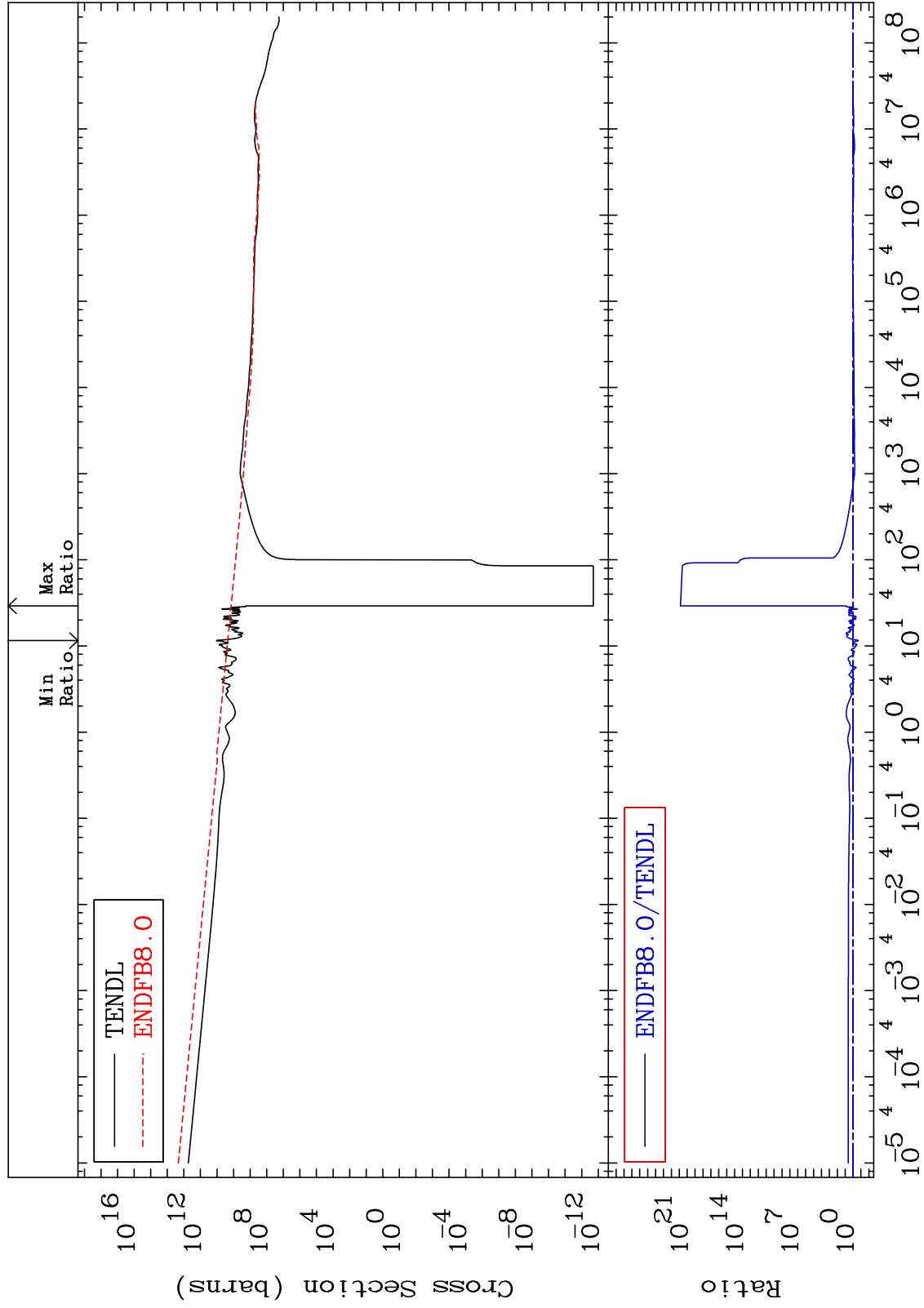
MAT 9914

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

99-Es-254

-79.64 To 9999. %

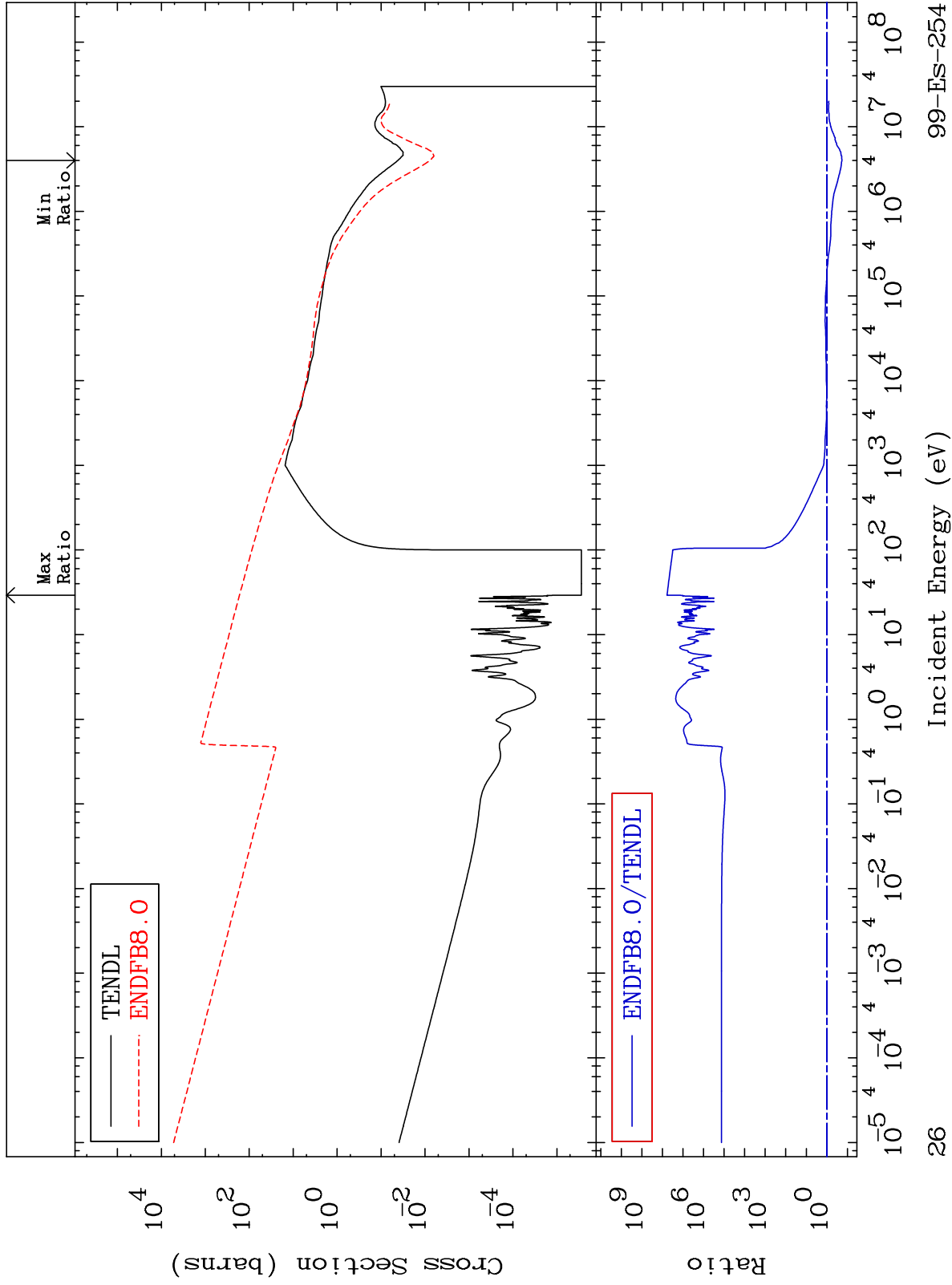
Cross Section



MAT 9914

Kerma capture (mt102)  
Cross Section

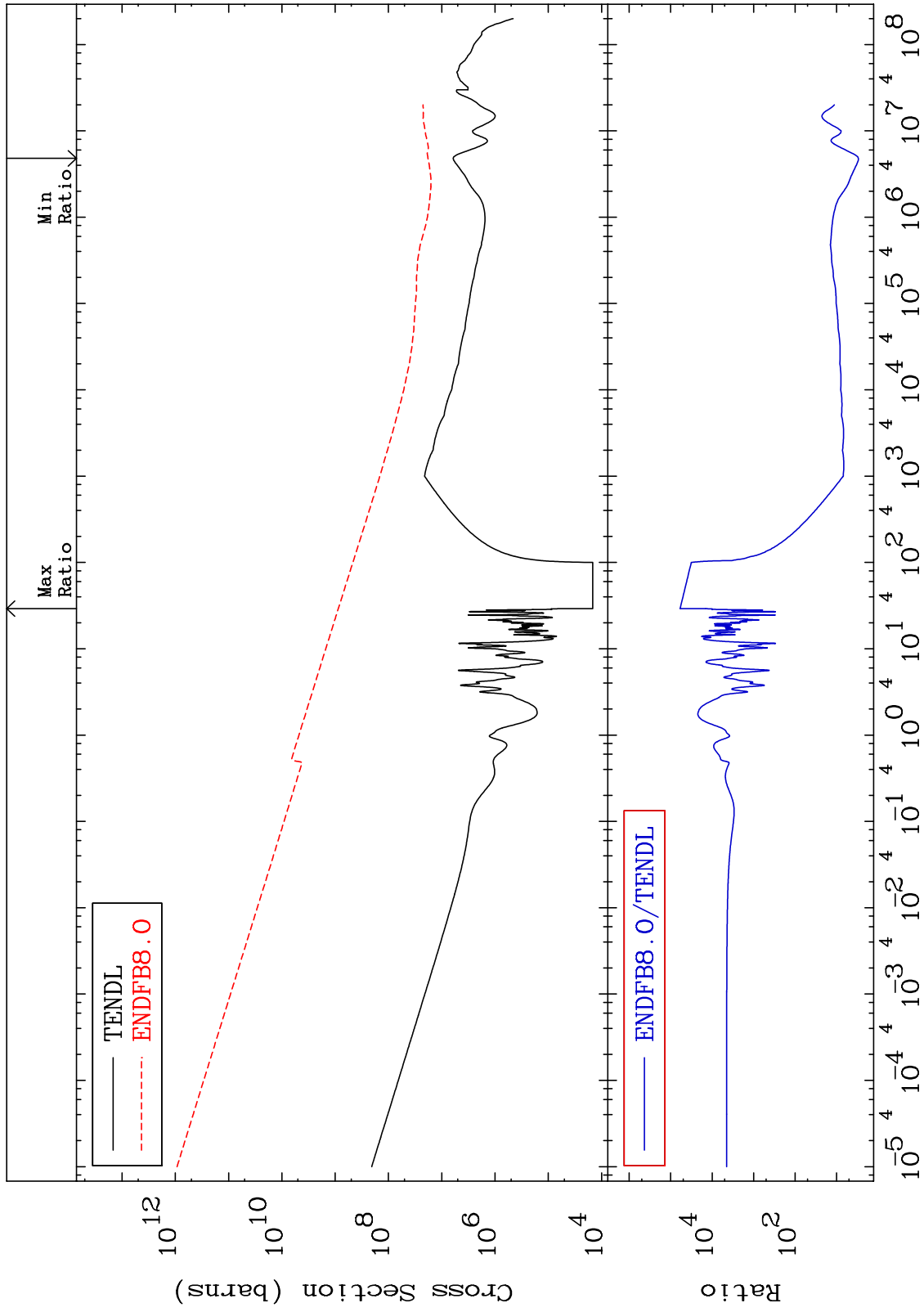
99-Es-254  
-81.59 To 9999. %



MAT 9914

Total photon (eV-barns)  
Cross Section

99-Es-254  
197.0 To 9999. %



27

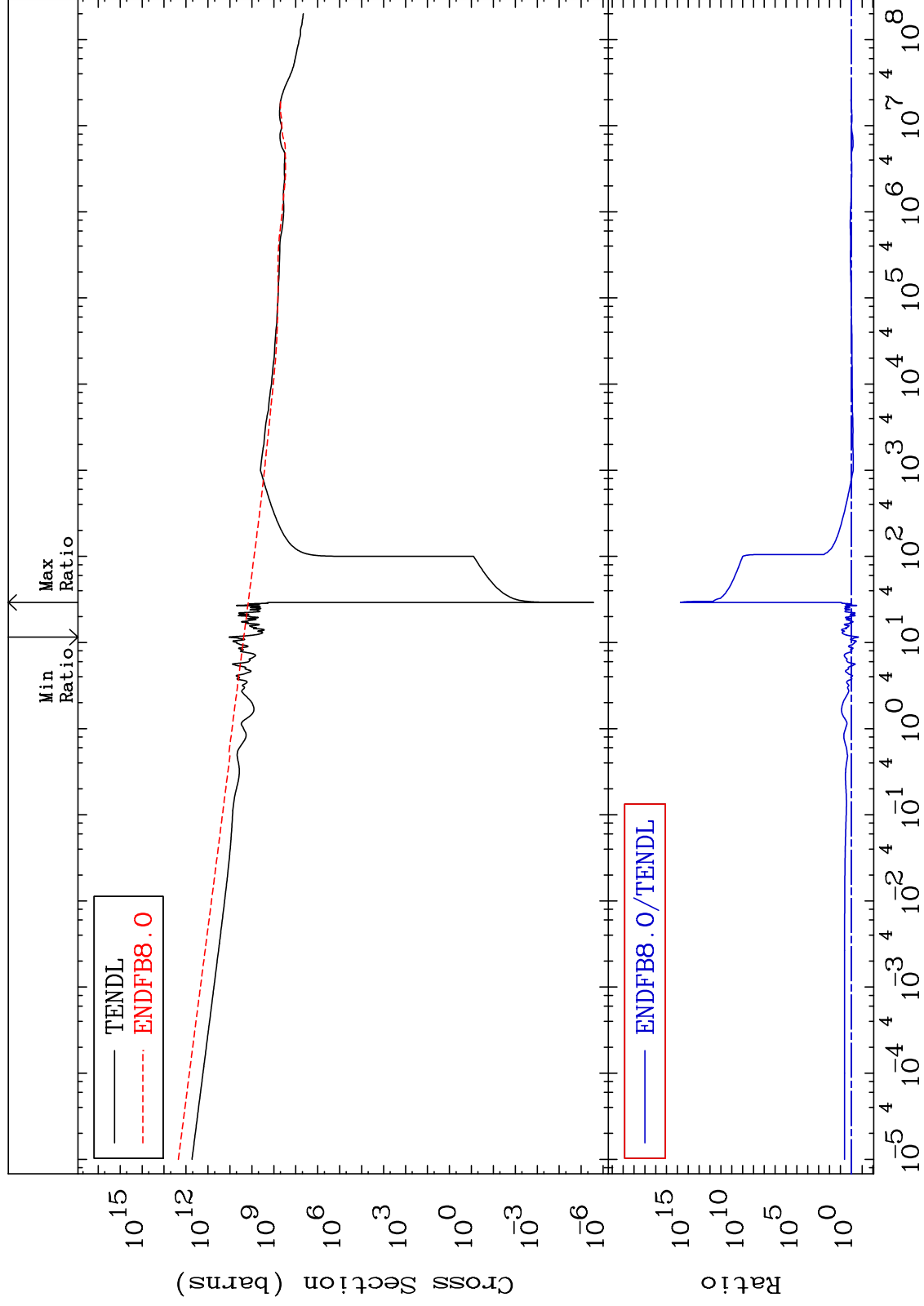
Incident Energy (eV)

99-Es-254

MAT 9914

Total kinematic kerma (high limit)  
Cross Section

99-Es-254  
-78.77 To 9999. %



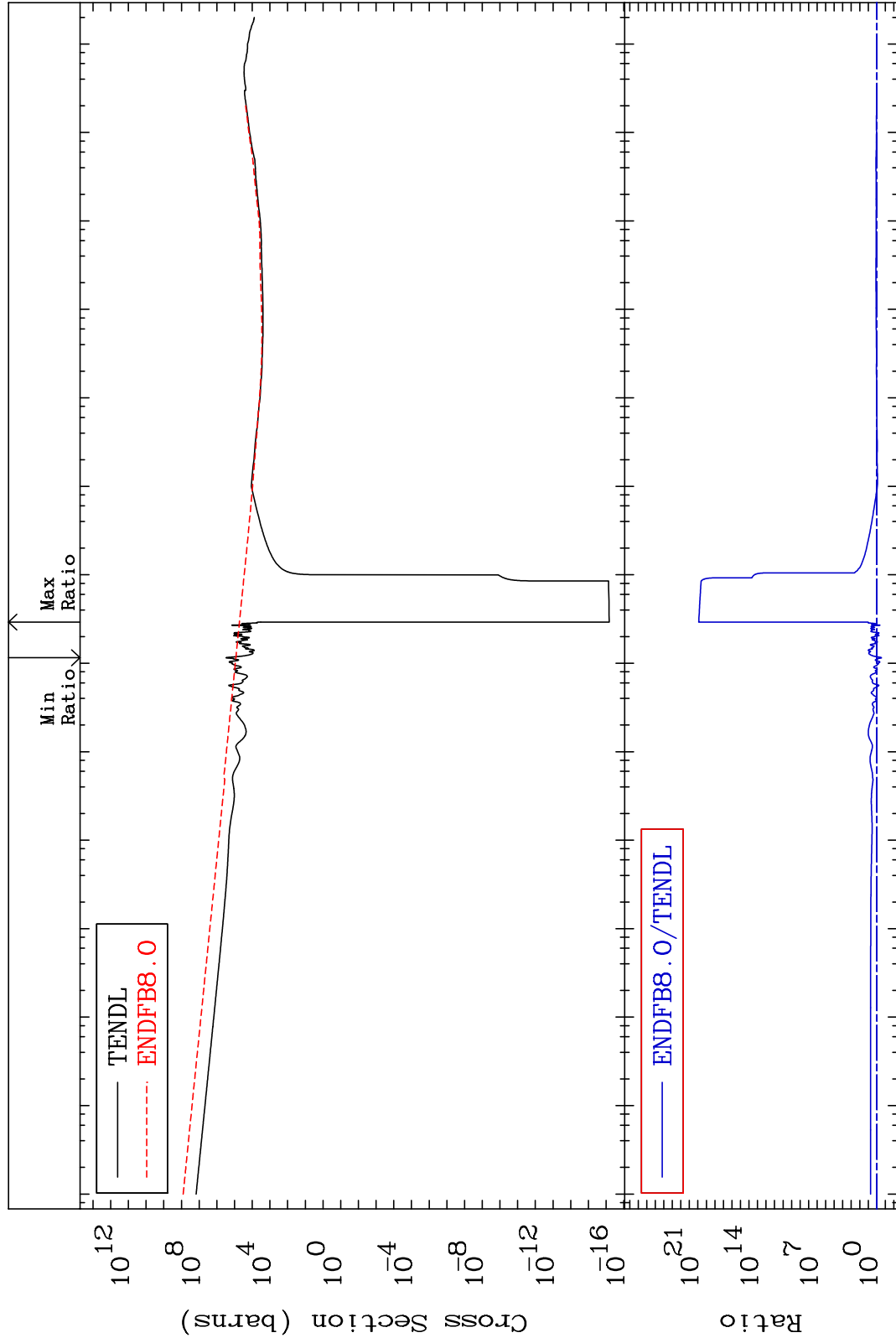
MAT 9914

Dpa total (eV-barns)

99-Es-254

-72.52 To 9999. %

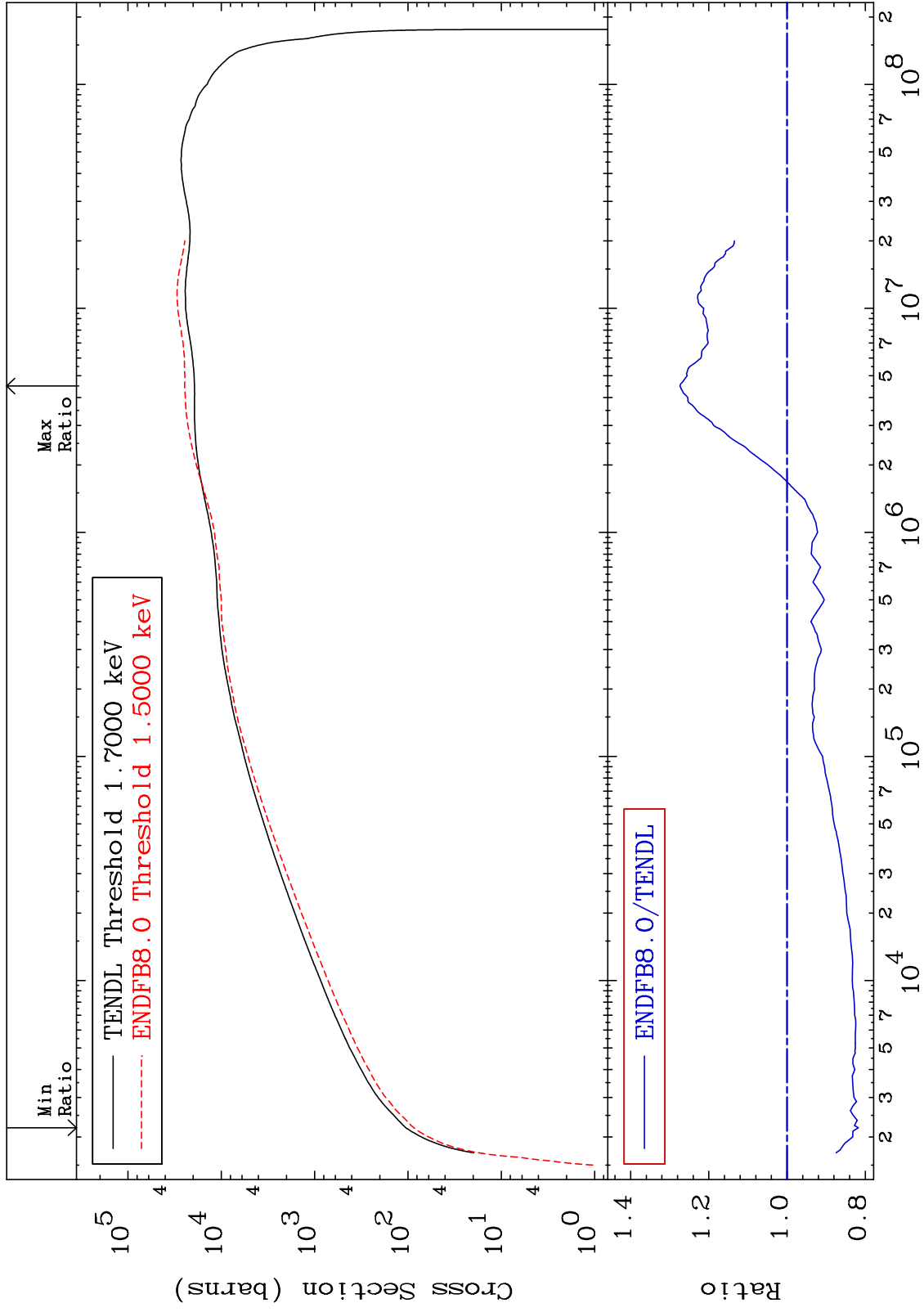
Cross Section



MAT 9914

Dpa elastic (mt2)  
Cross Section

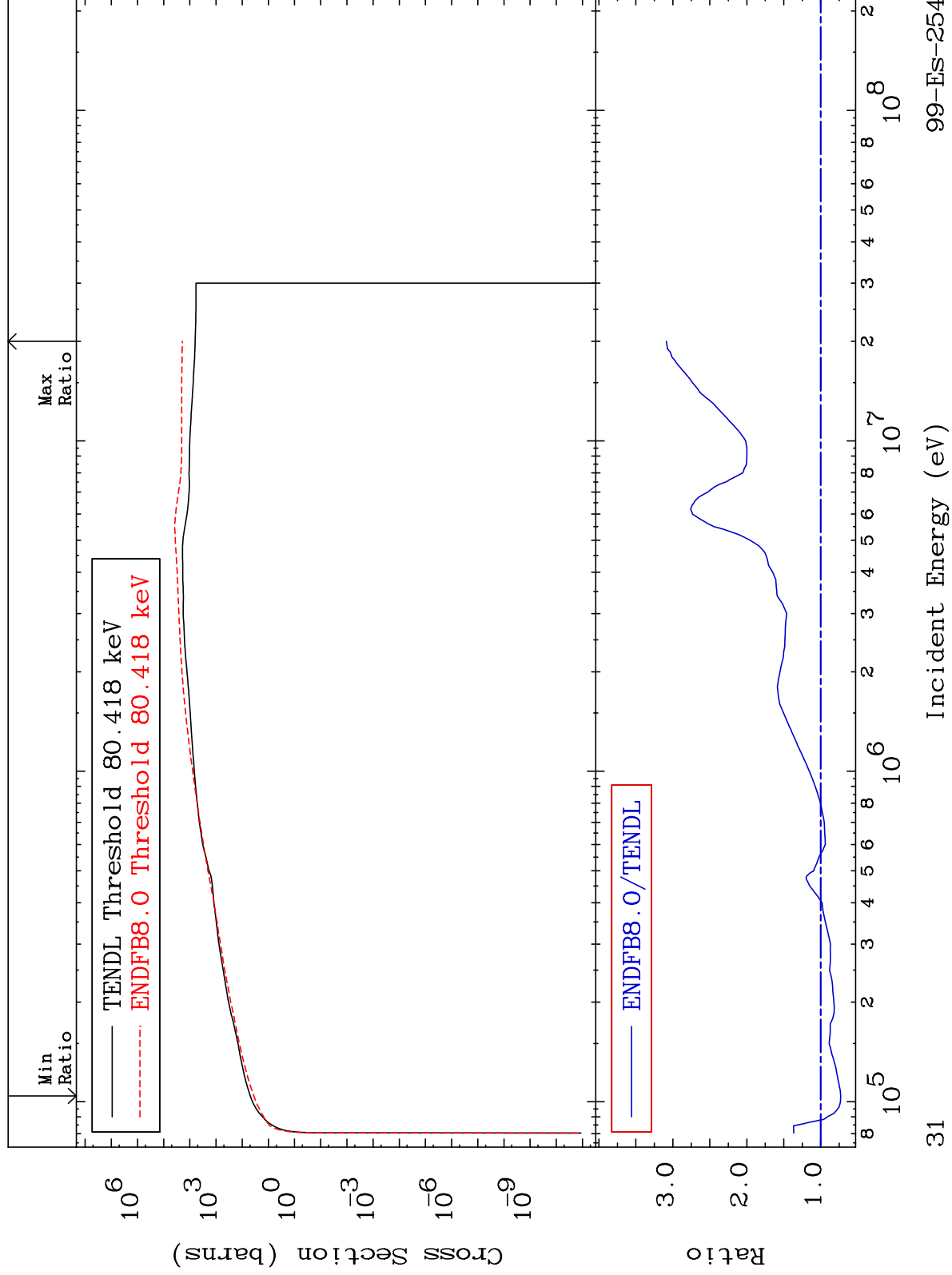
99-Es-254  
-18.24 To 27.37 %



MAT 9914

Dpa inelastic (mt51-91)  
Cross Section

99-Es-254  
-27.04 To 208.8 %





MAT 9914

Dpa disappearance (mt102 -120)  
Cross Section

99-Es-254  
-100.0 To 9999. %

