

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

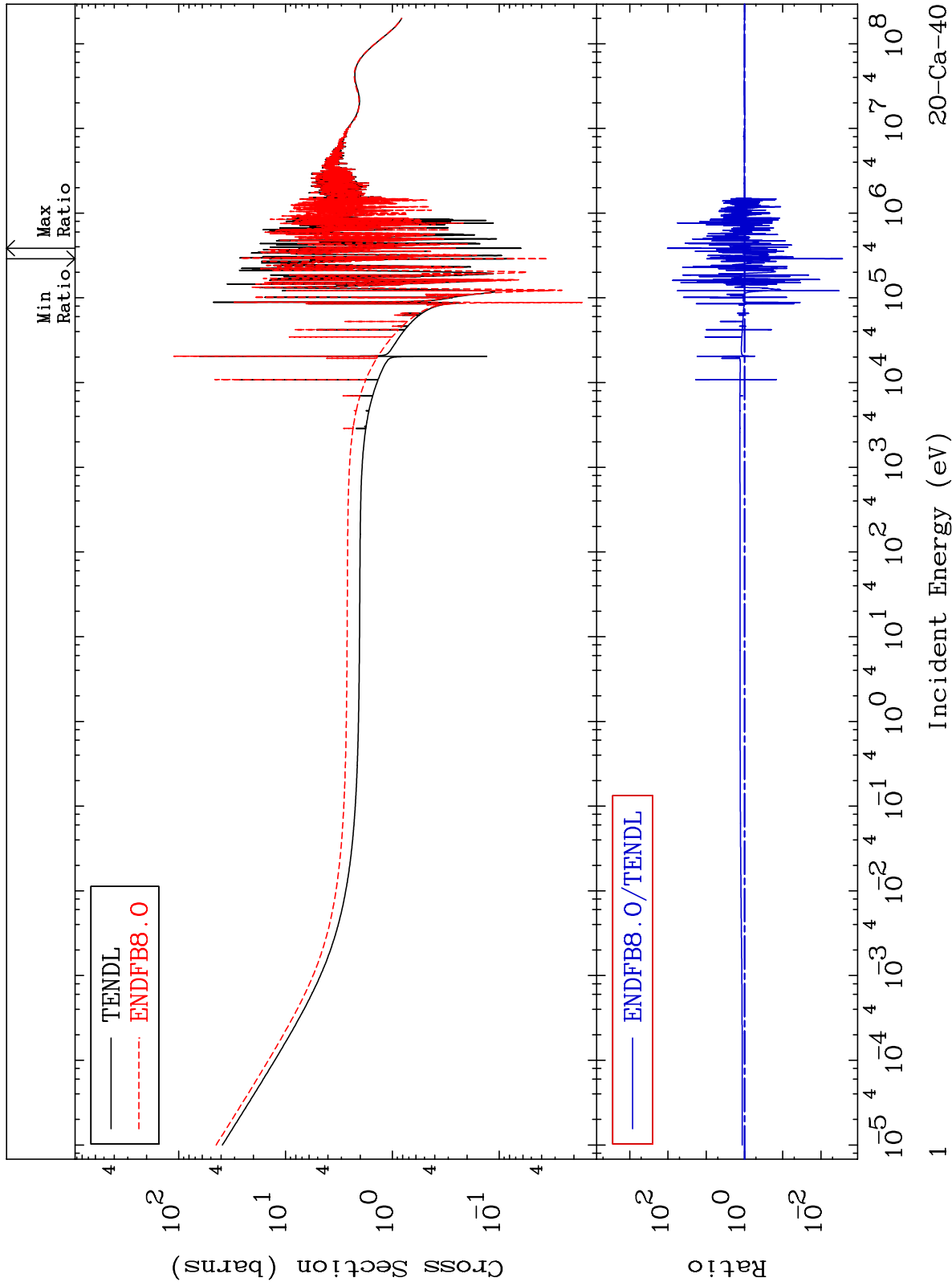
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 2025

Total  
Cross Section

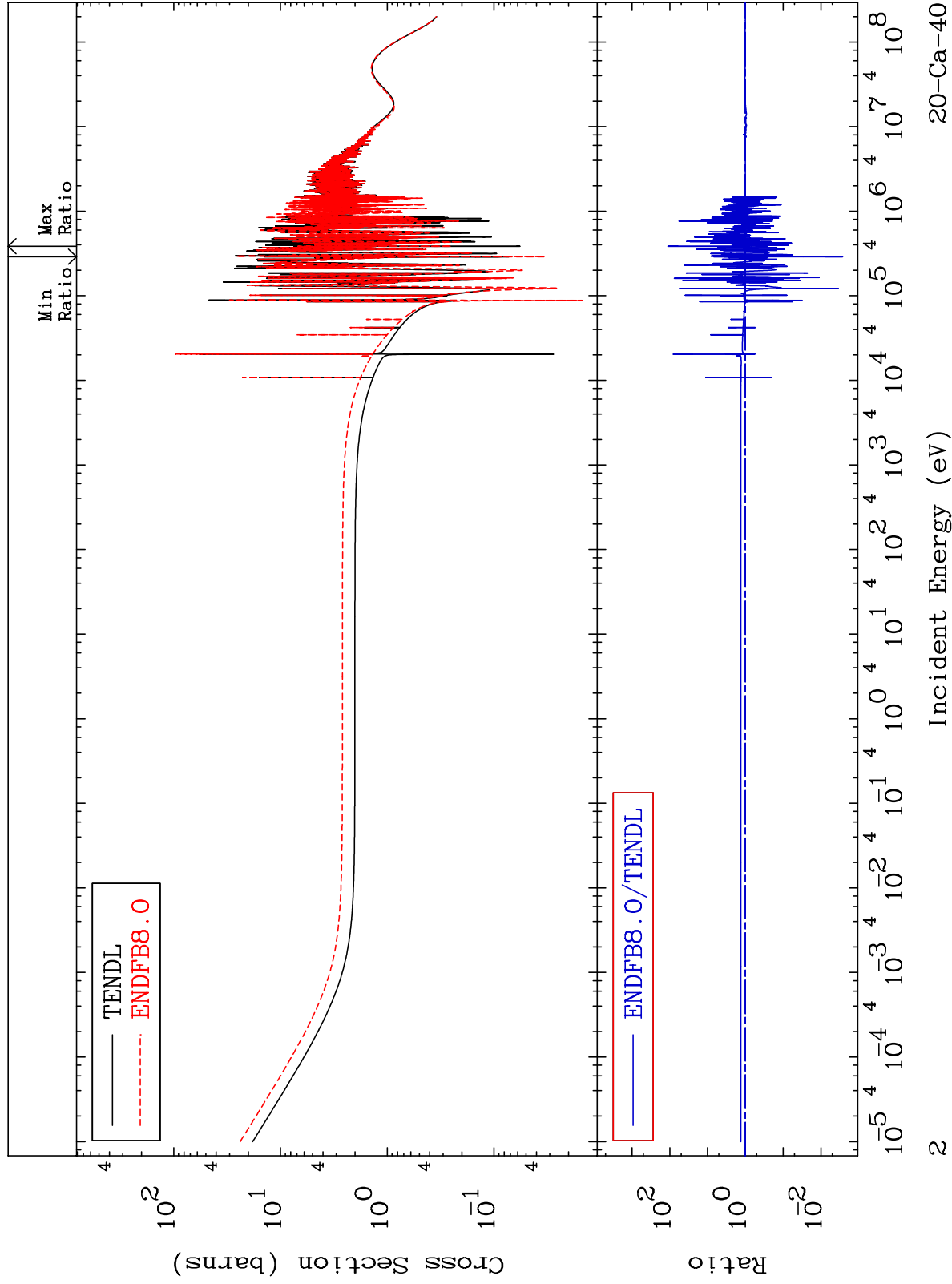
20-Ca-40  
-99.73 To 9999. %



MAT 2025

Elastic  
Cross Section

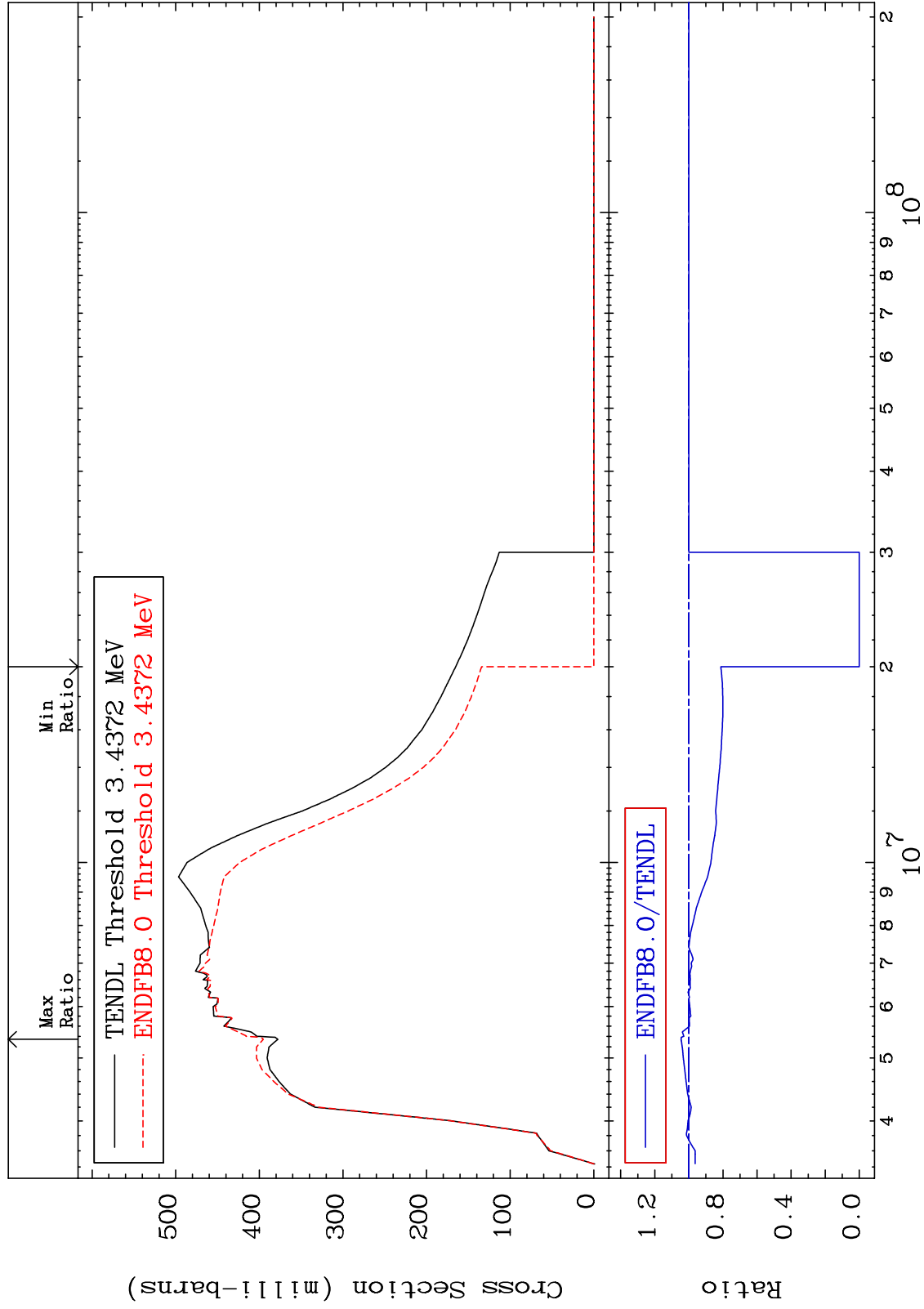
20-Ca-40  
-99.74 To 9999. %



MAT 2025

Inelastic  
Cross Section

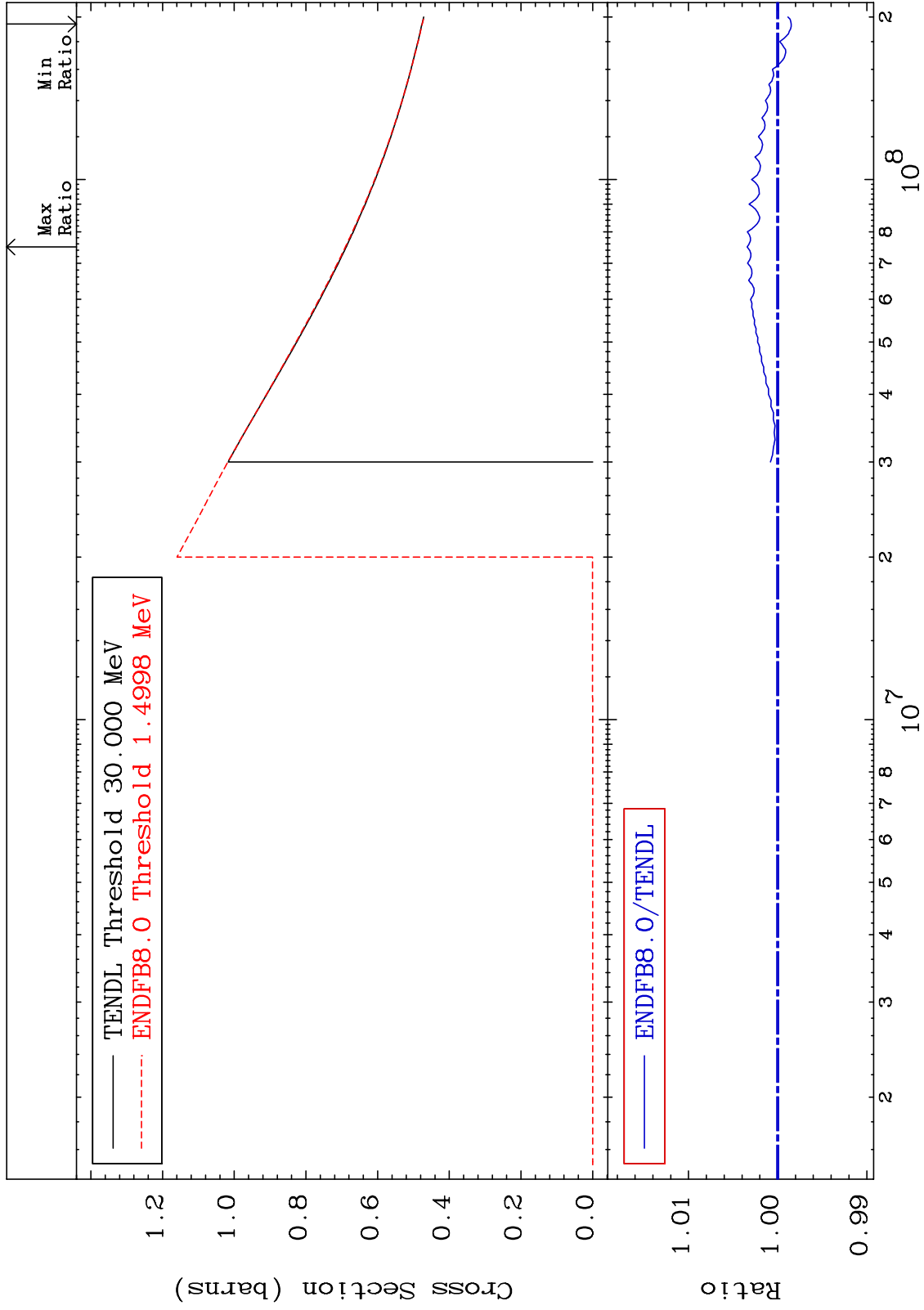
20-Ca-40  
-100.0 To 4.594 %

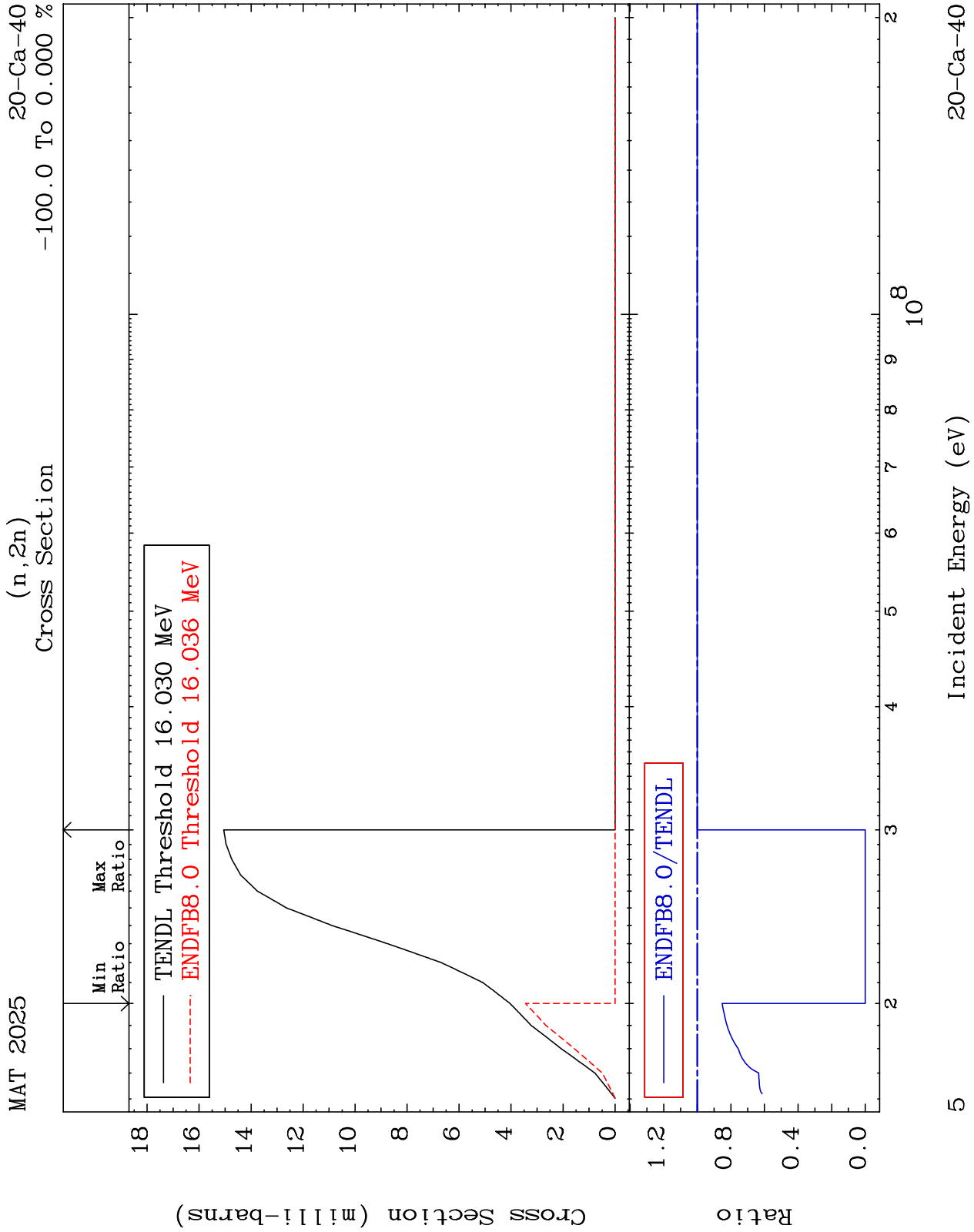


MAT 2025

(n, remainder)  
Cross Section

20-Ca-40  
-0.153 To 0.342 %





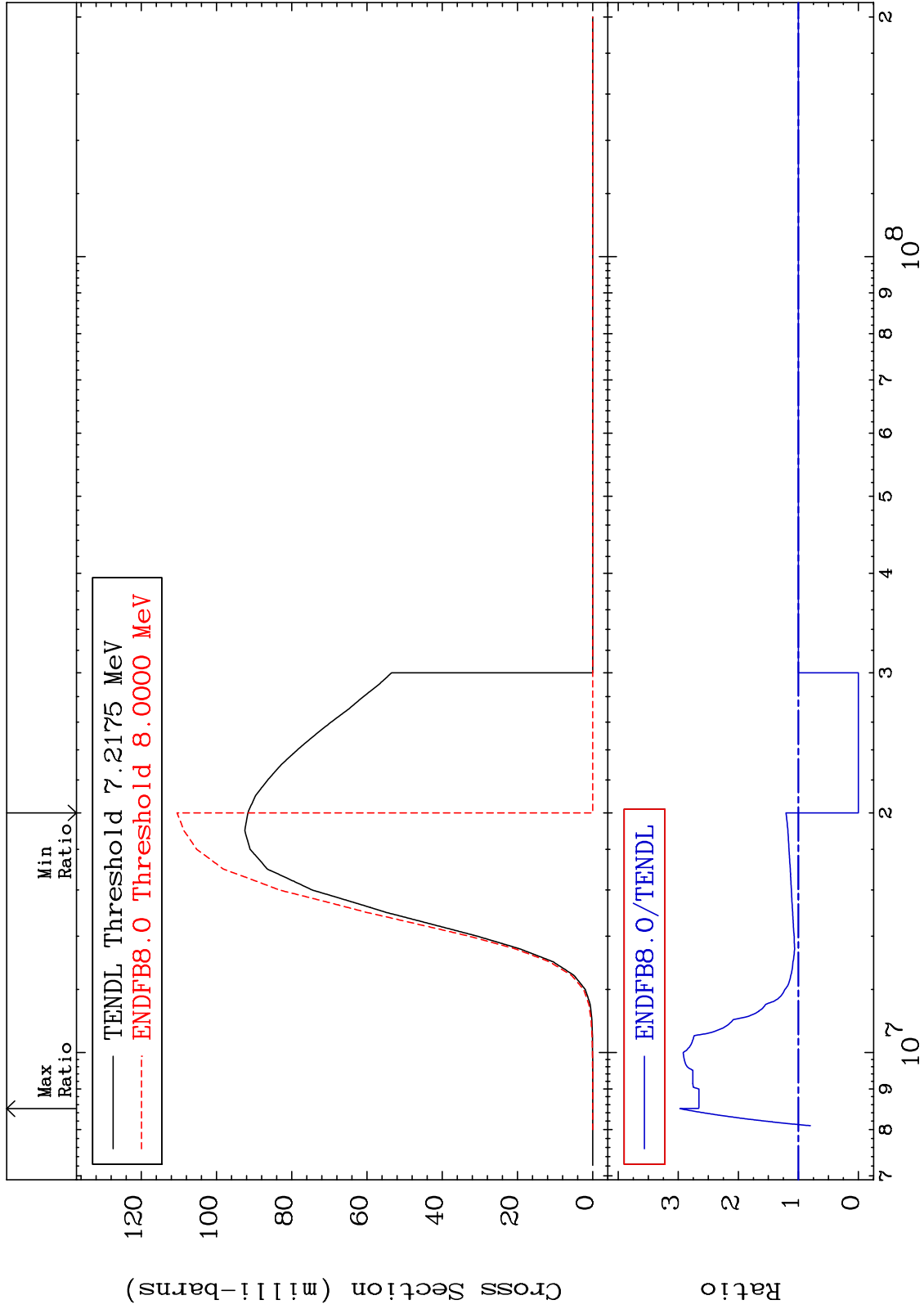
MAT 2025

(n,n')  $\alpha$

20-Ca-40

Cross Section

-100.0 To 197.1 %



Incident Energy (eV)

20-Ca-40

6

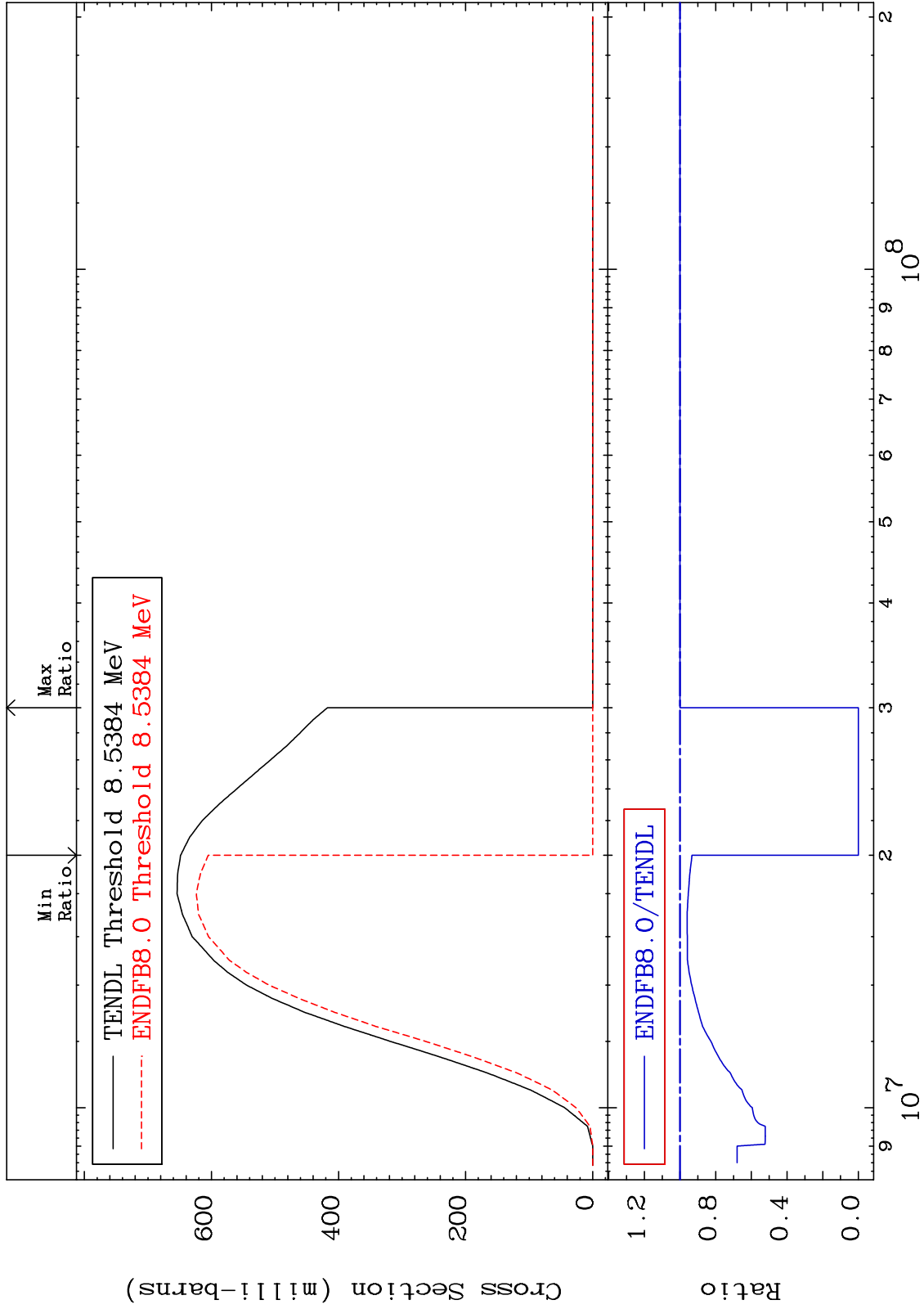
MAT 2025

(n,n') p

20-Ca-40

Cross Section

-100.0 To 0.000 %



7

Incident Energy (eV)

20-Ca-40



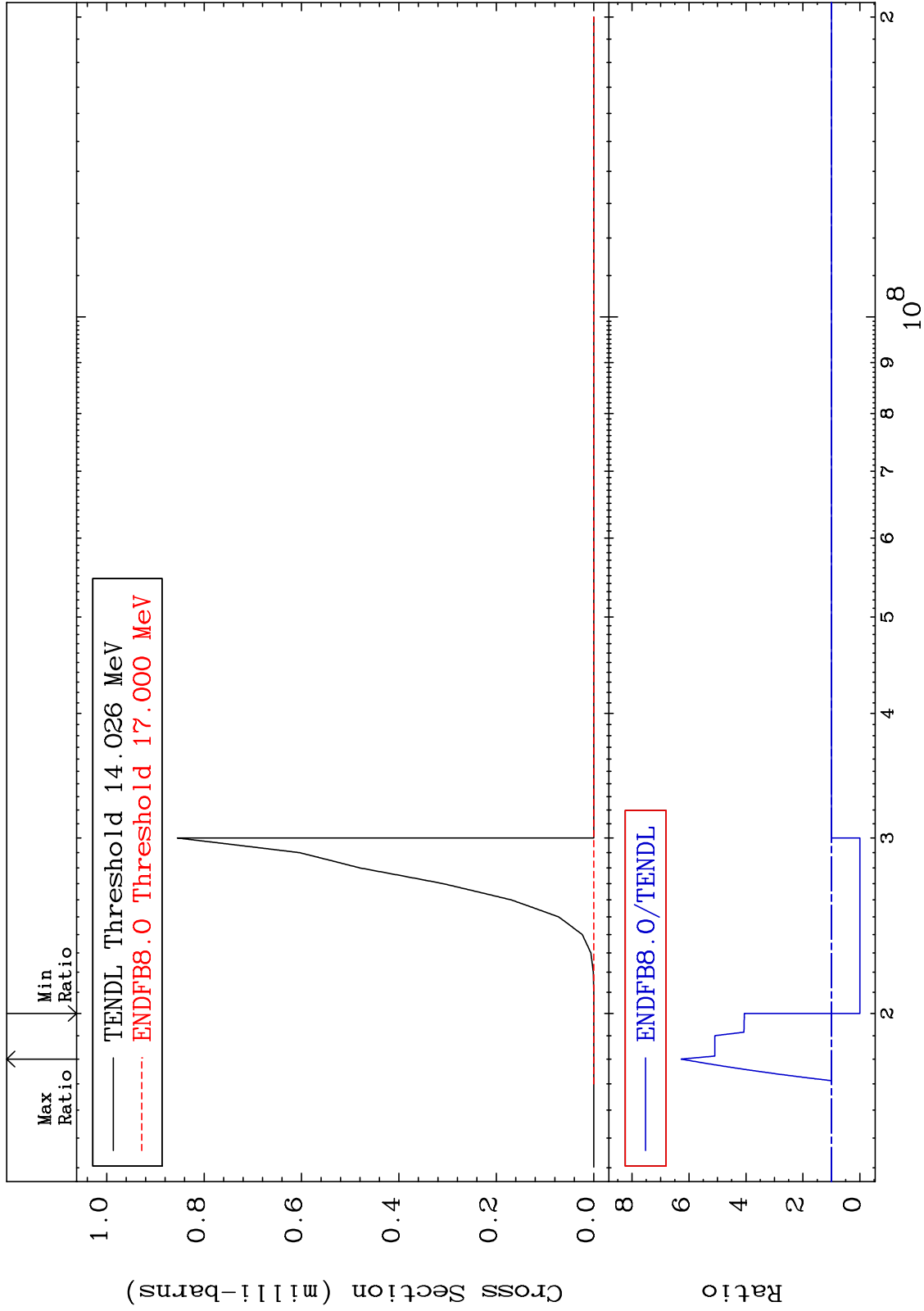
MAT 2025

(n, n') 2 $\alpha$

20-Ca-40

Cross Section

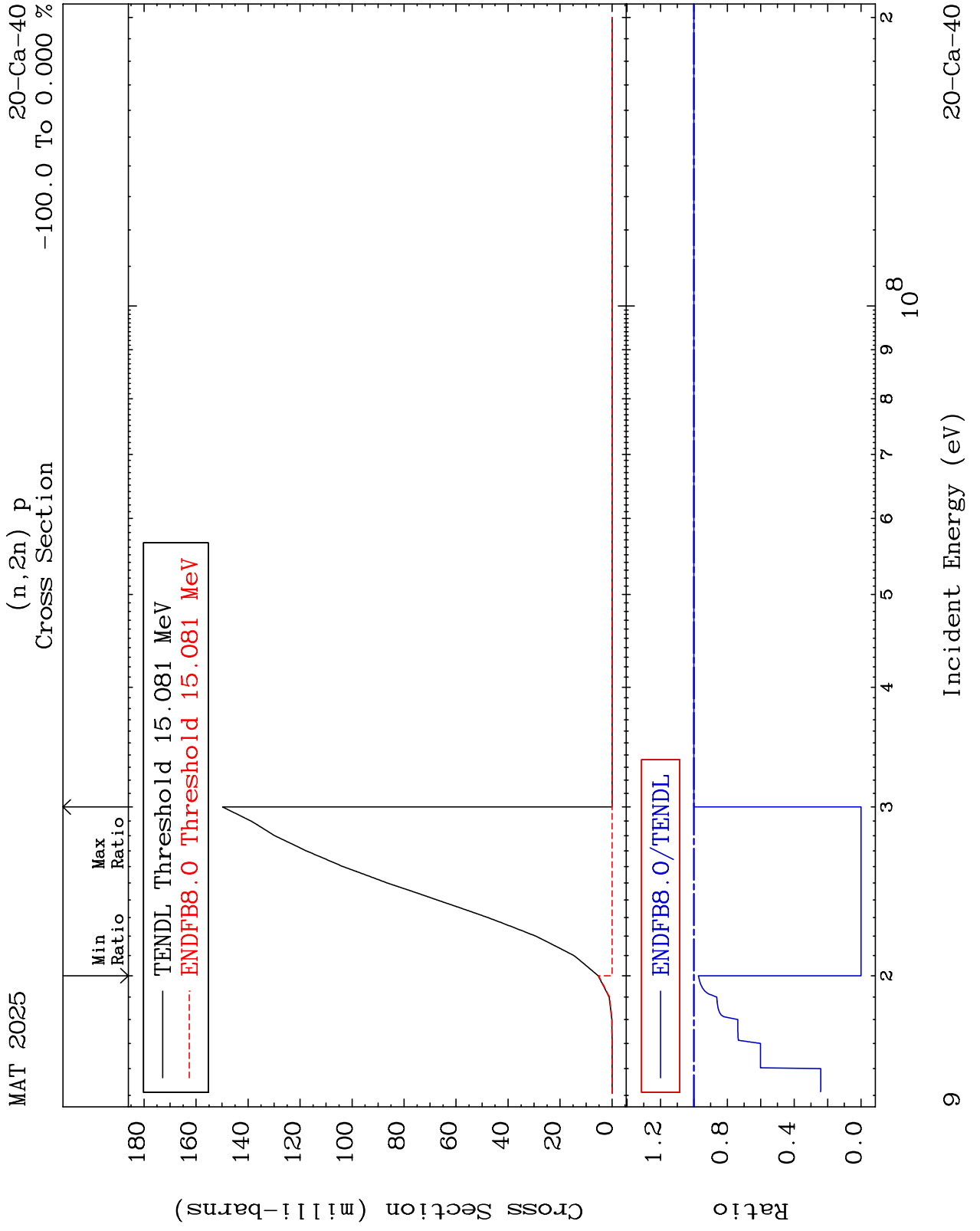
-100.0 To 527.3 %



8

Incident Energy (eV)

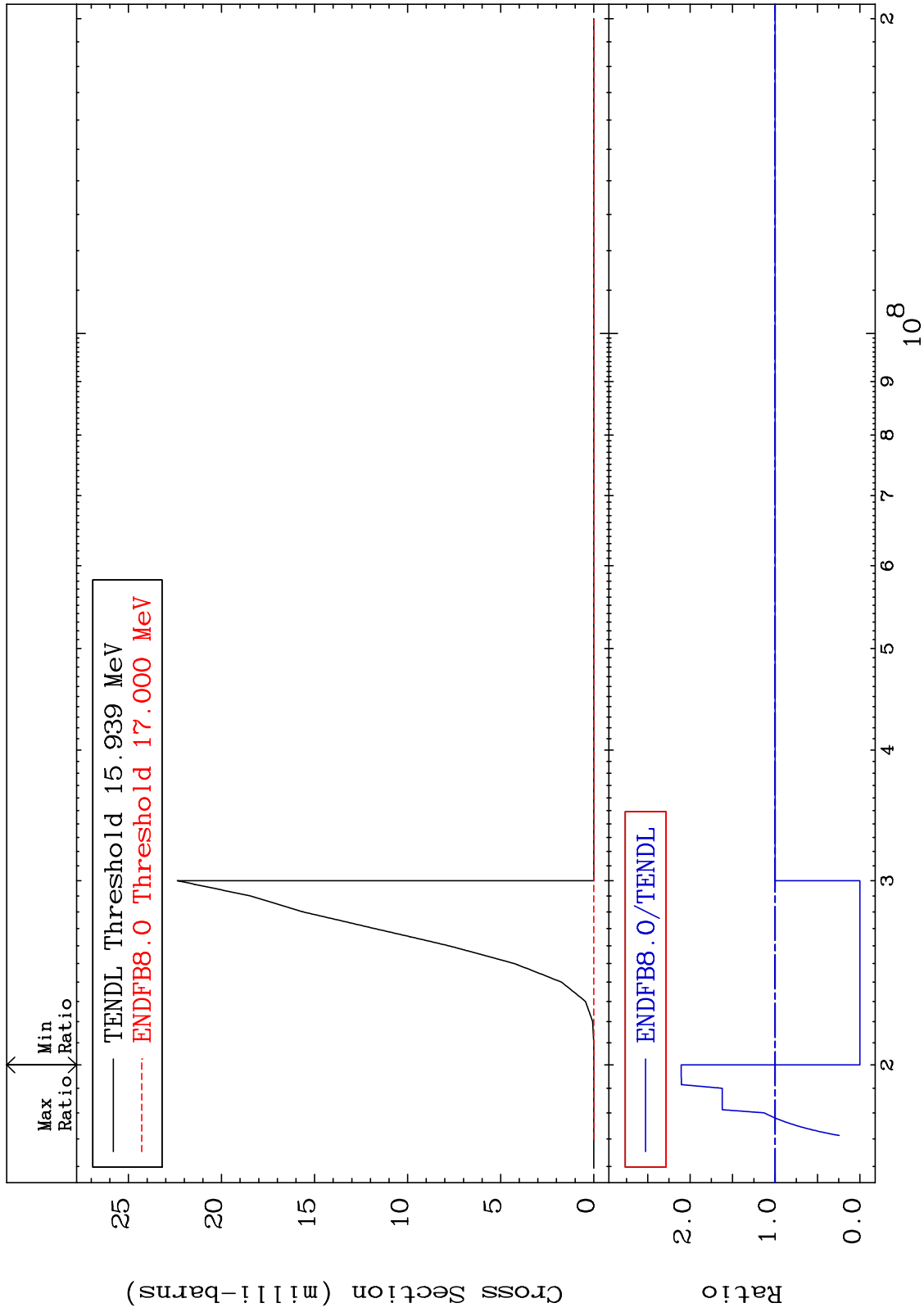
20-Ca-40



MAT 2025

(n,n') p  $\alpha$   
Cross Section

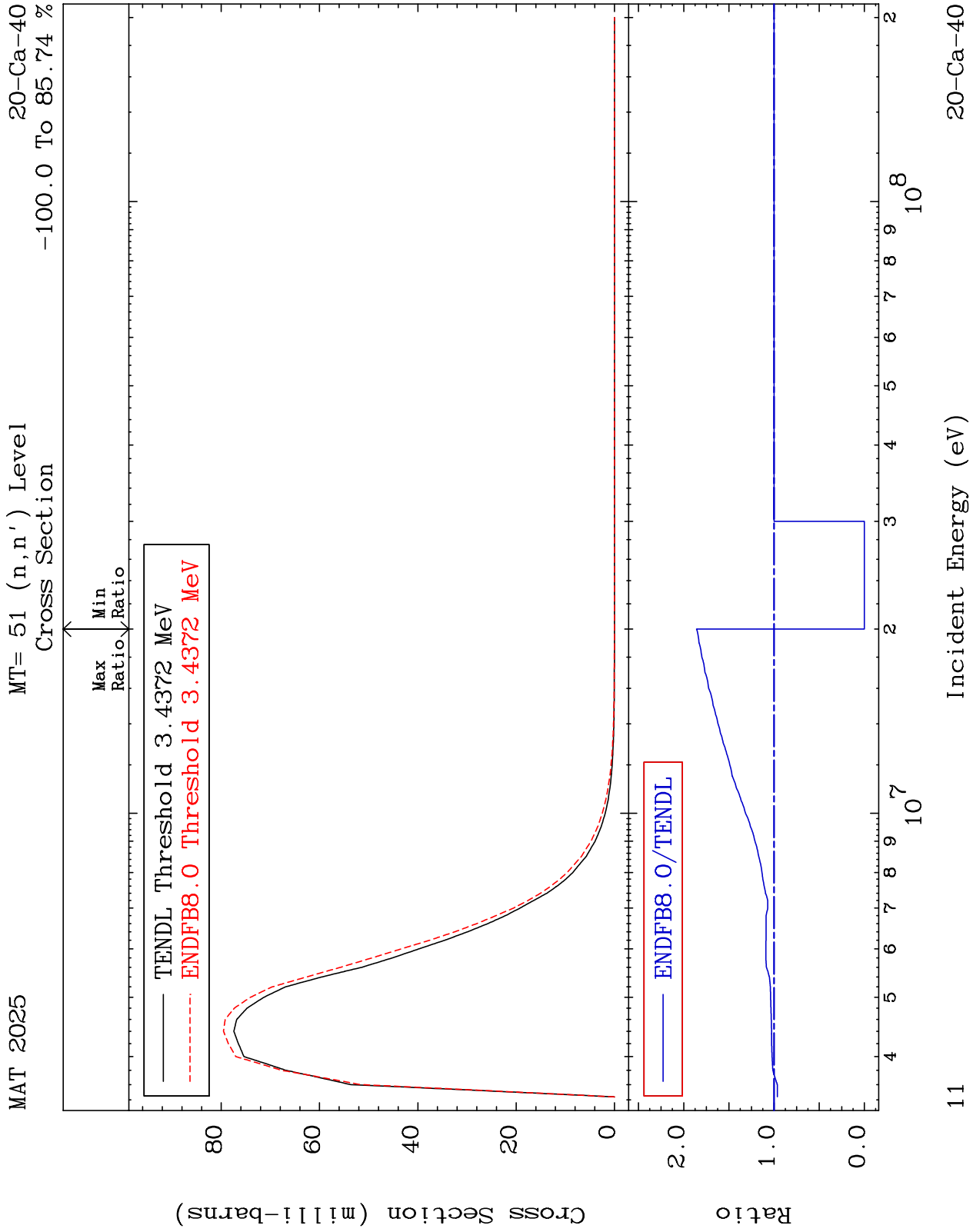
20-Ca-40  
-100.0 To 110.5 %

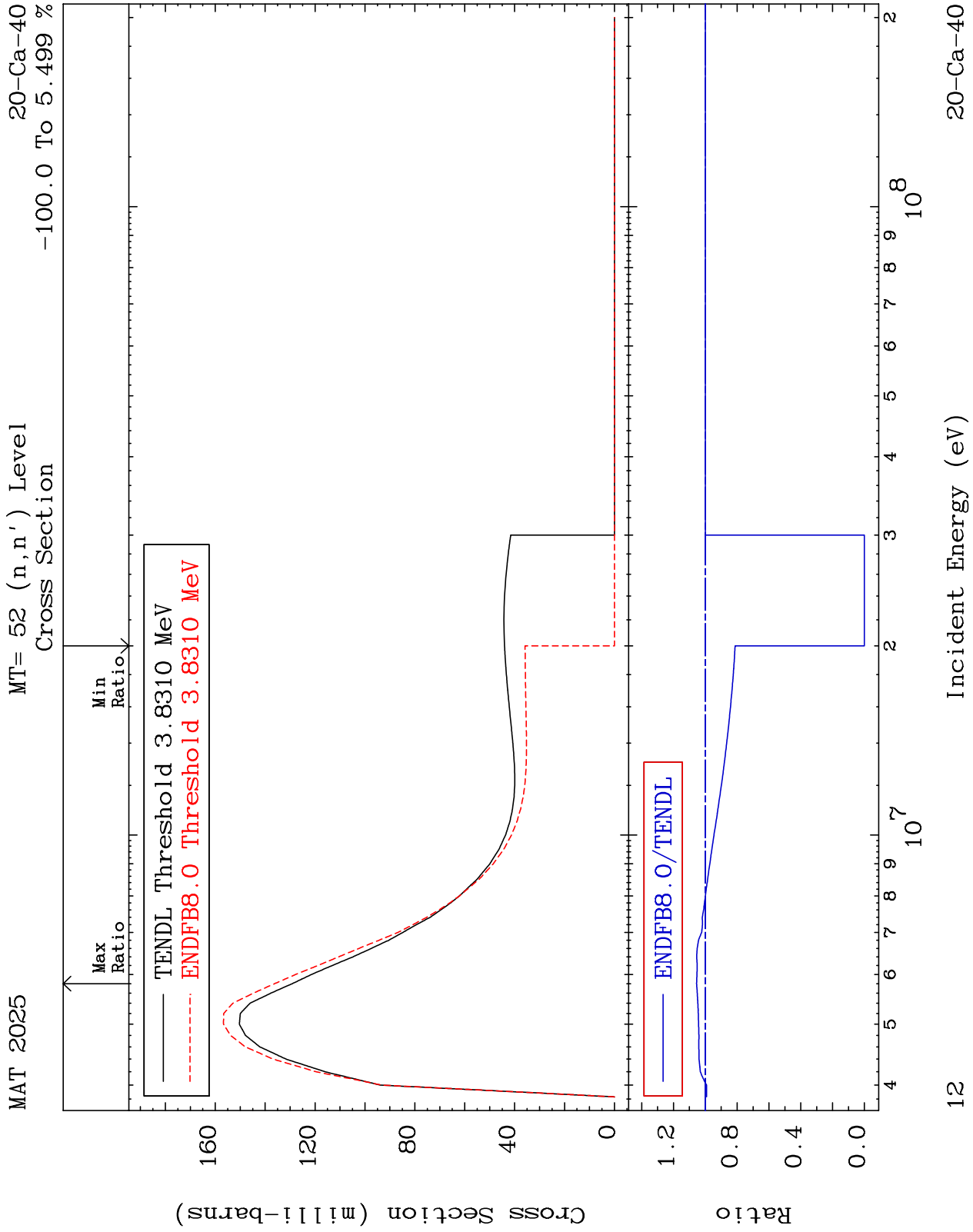


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Incident Energy (eV)

20-Ca-40

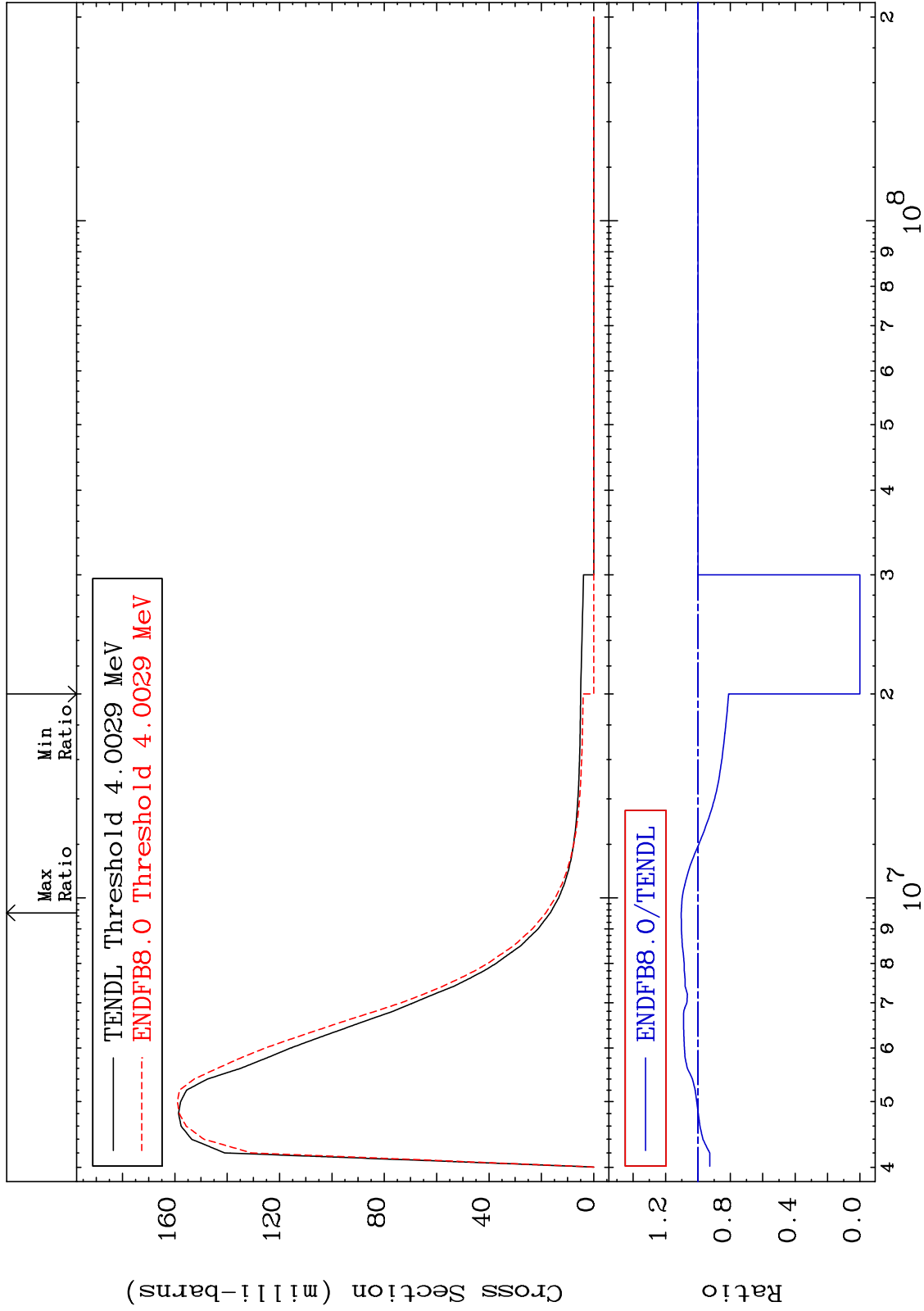


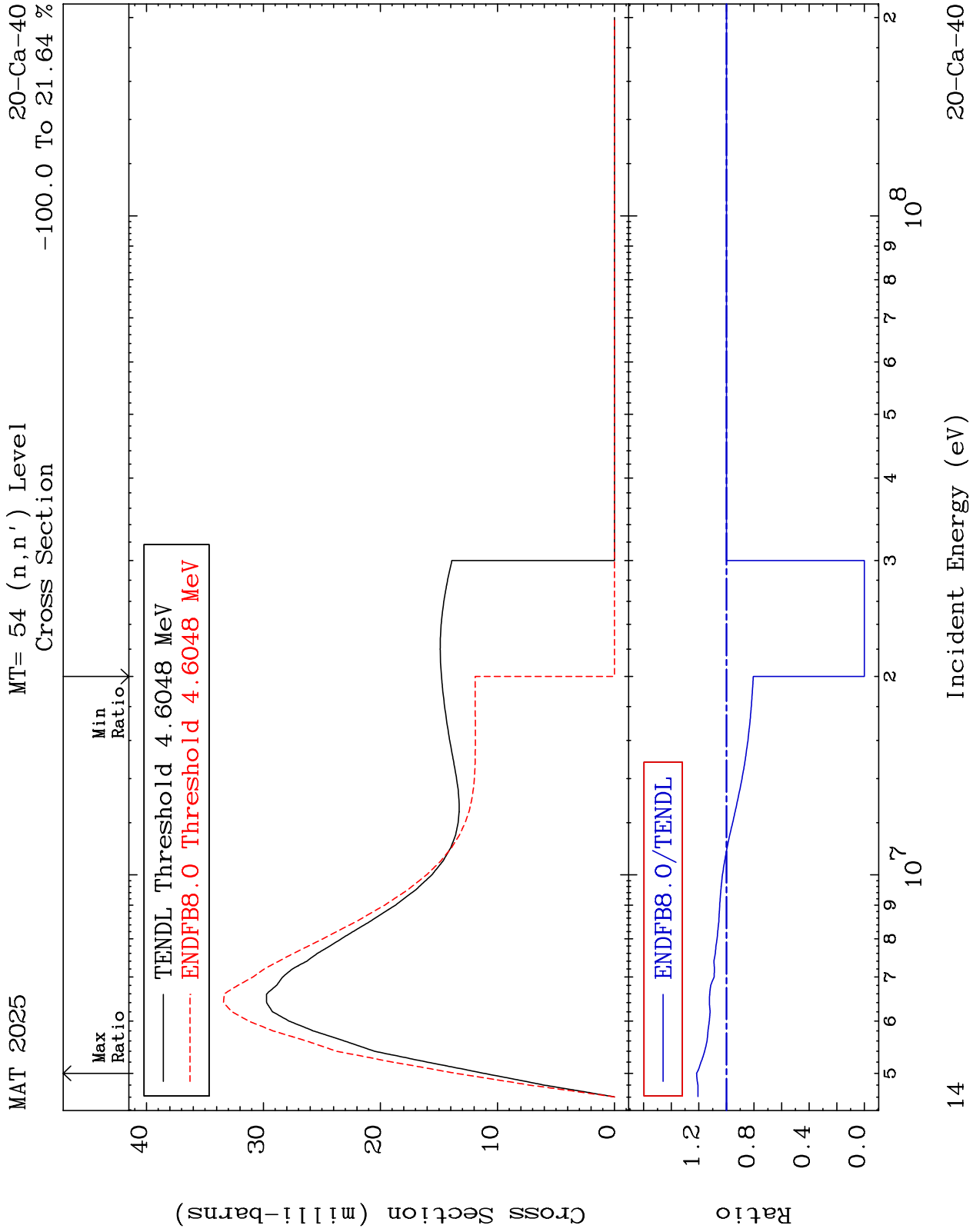


MAT 2025

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

20-Ca-40  
-100.0 To 10.33 %

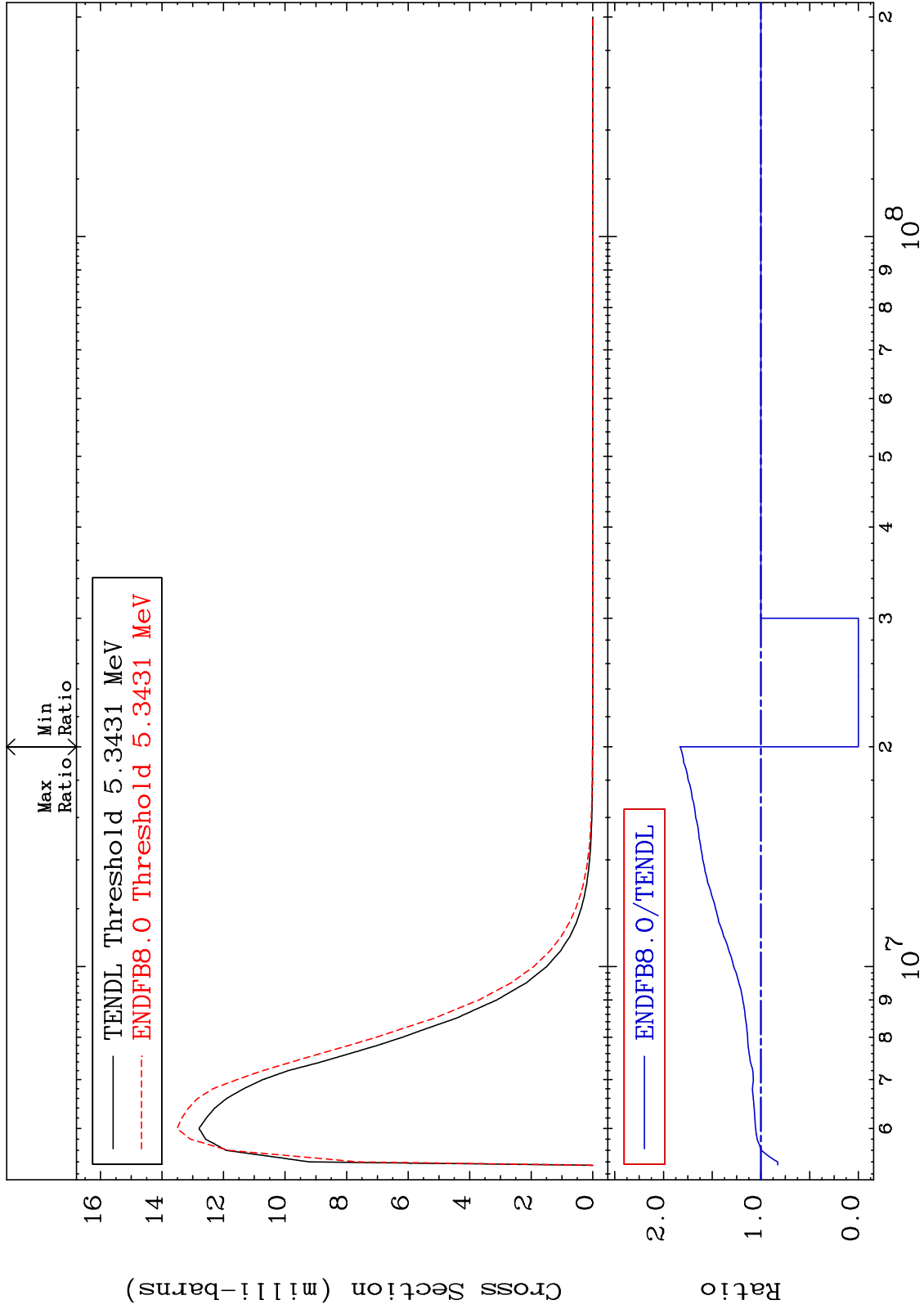




MAT 2025

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

20-Ca-40  
-100.0 To 83.07 %



15

Incident Energy (eV)

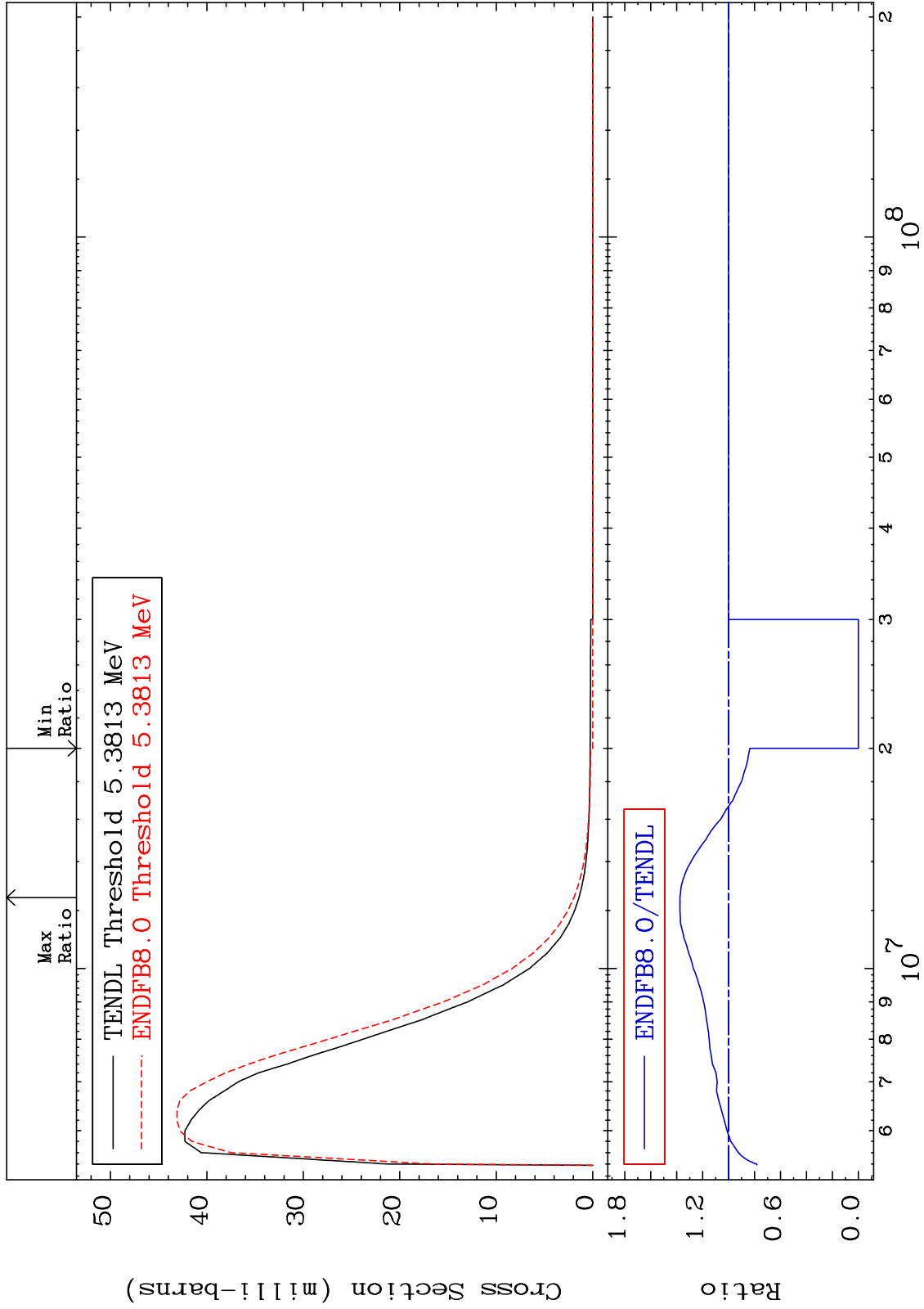
20-Ca-40



MAT 2025

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

20-Ca-40  
-100.0 To 37.49 %



16

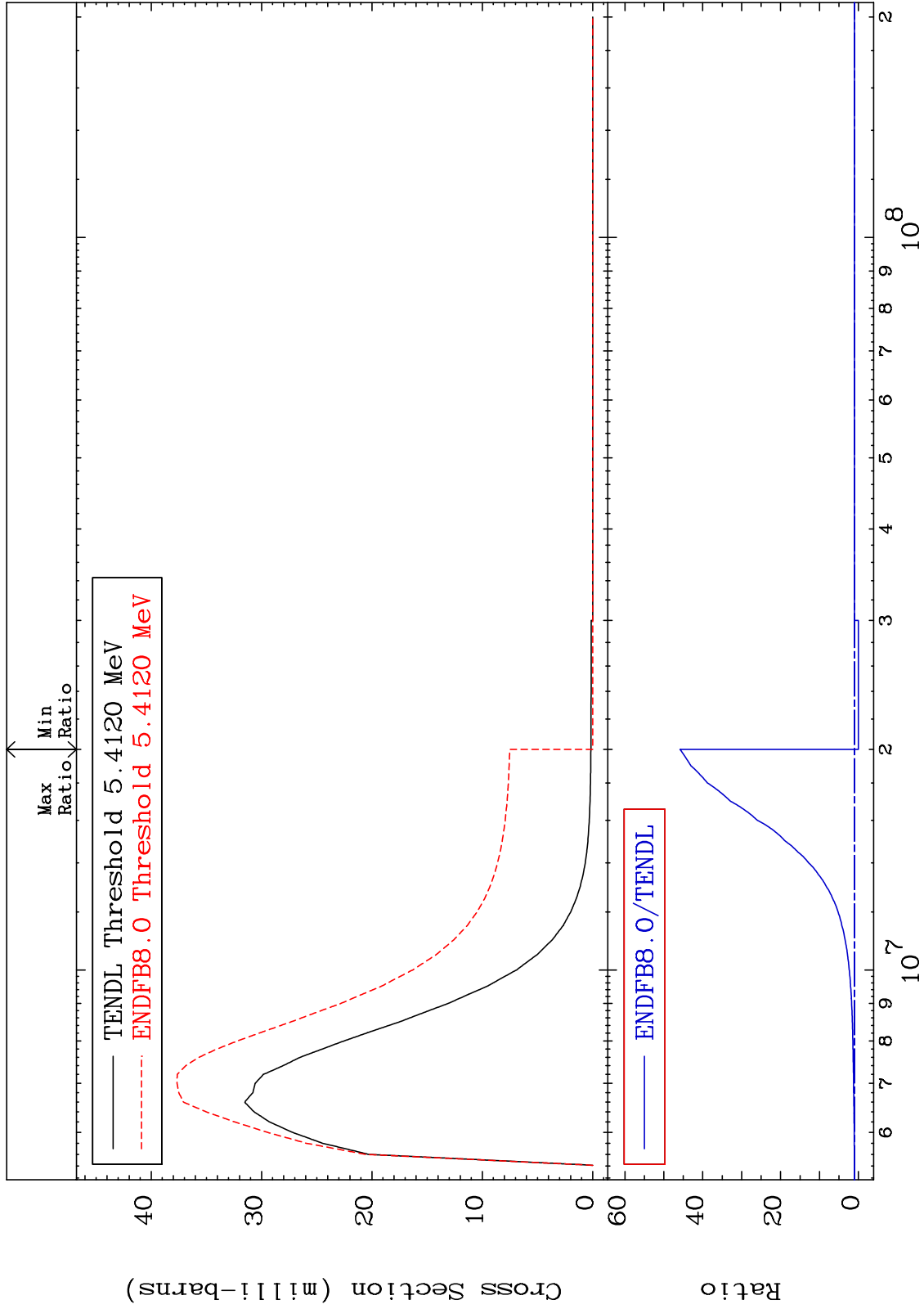
Incident Energy (eV)

20-Ca-40

MAT 2025

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

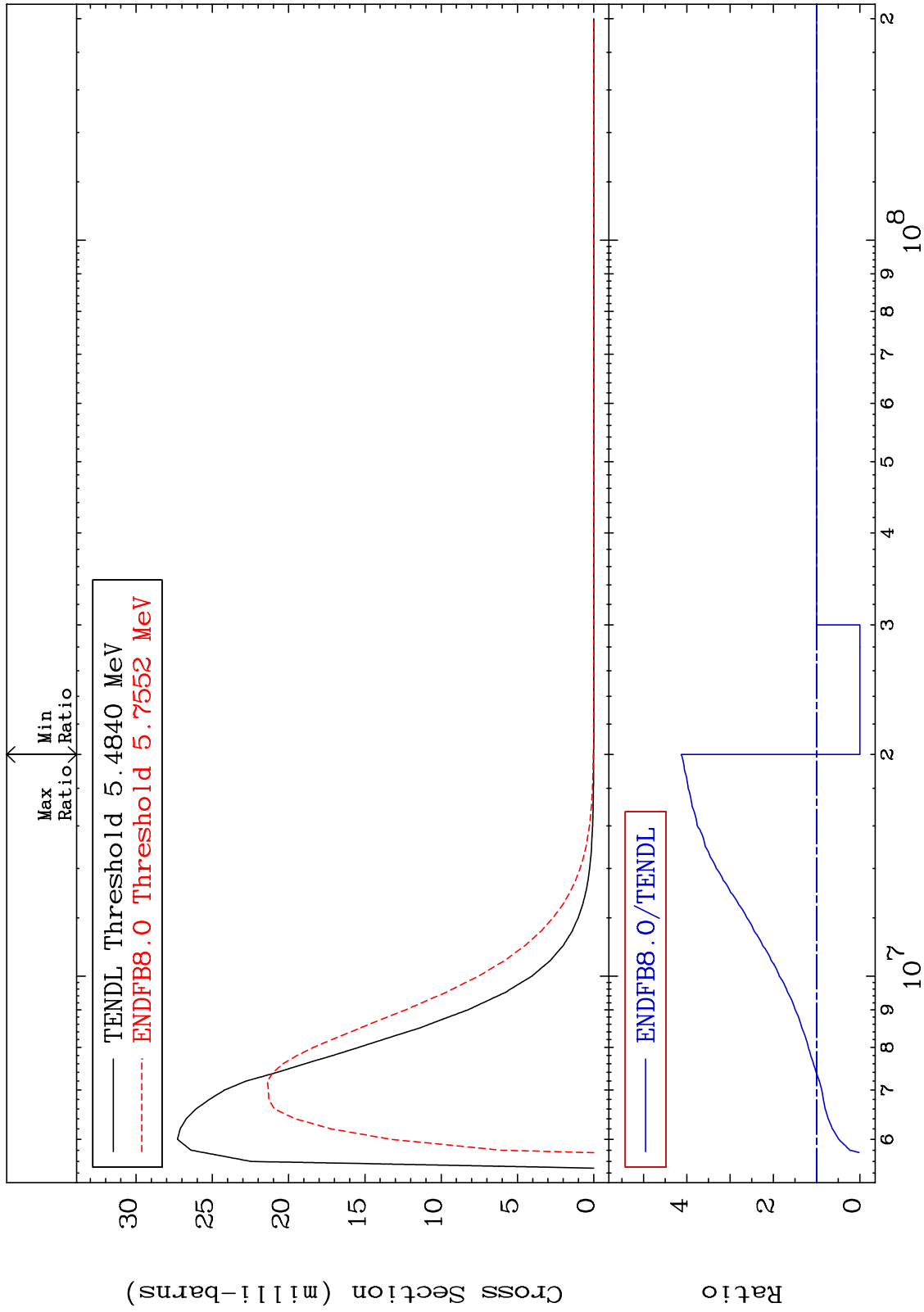
20-Ca-40  
-100.0 To 4484. %



MAT 2025

MT= 58 (n,n') Level  
Cross Section

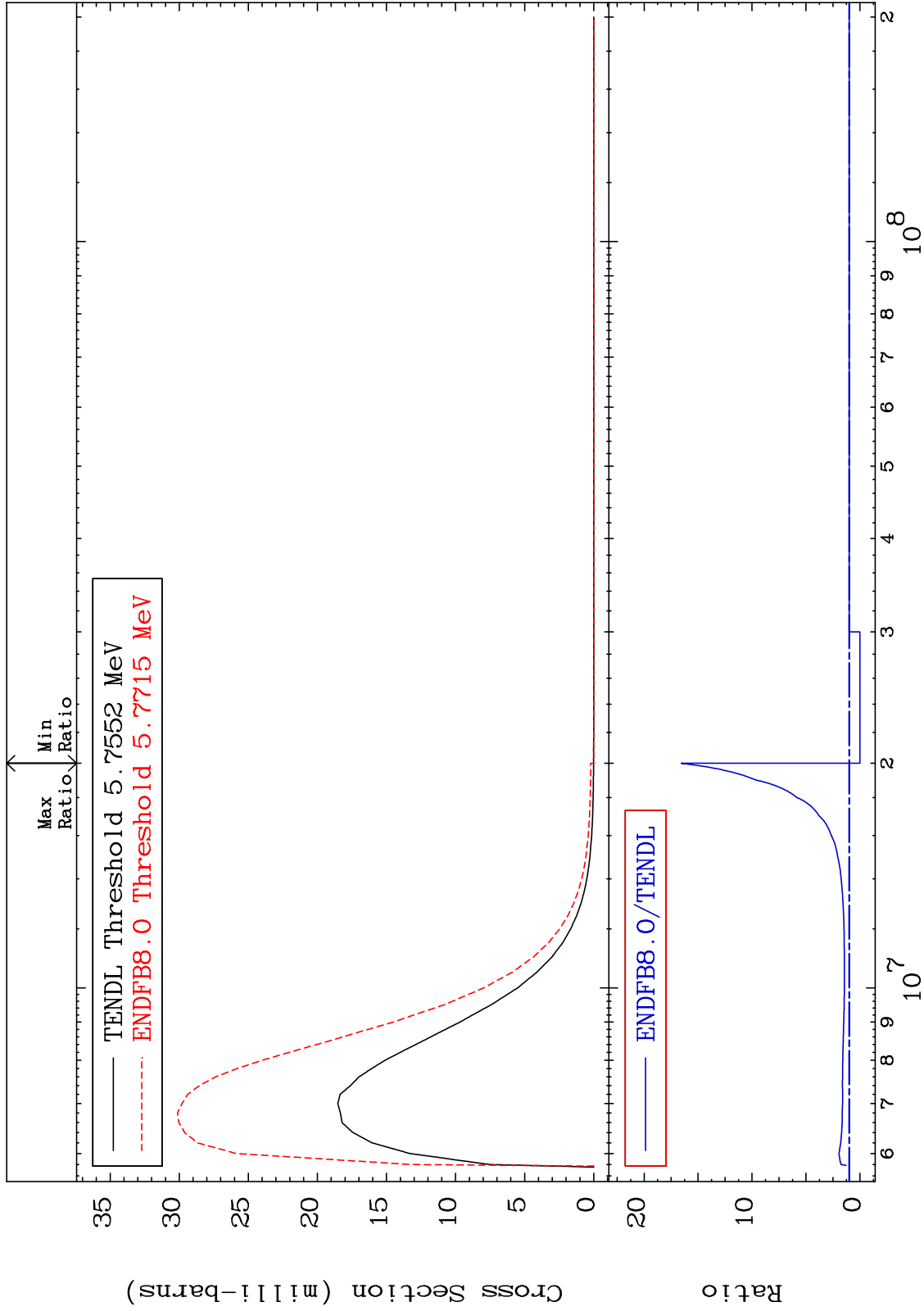
20-Ca-40  
-100.0 To 313.1 %



MAT 2025

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

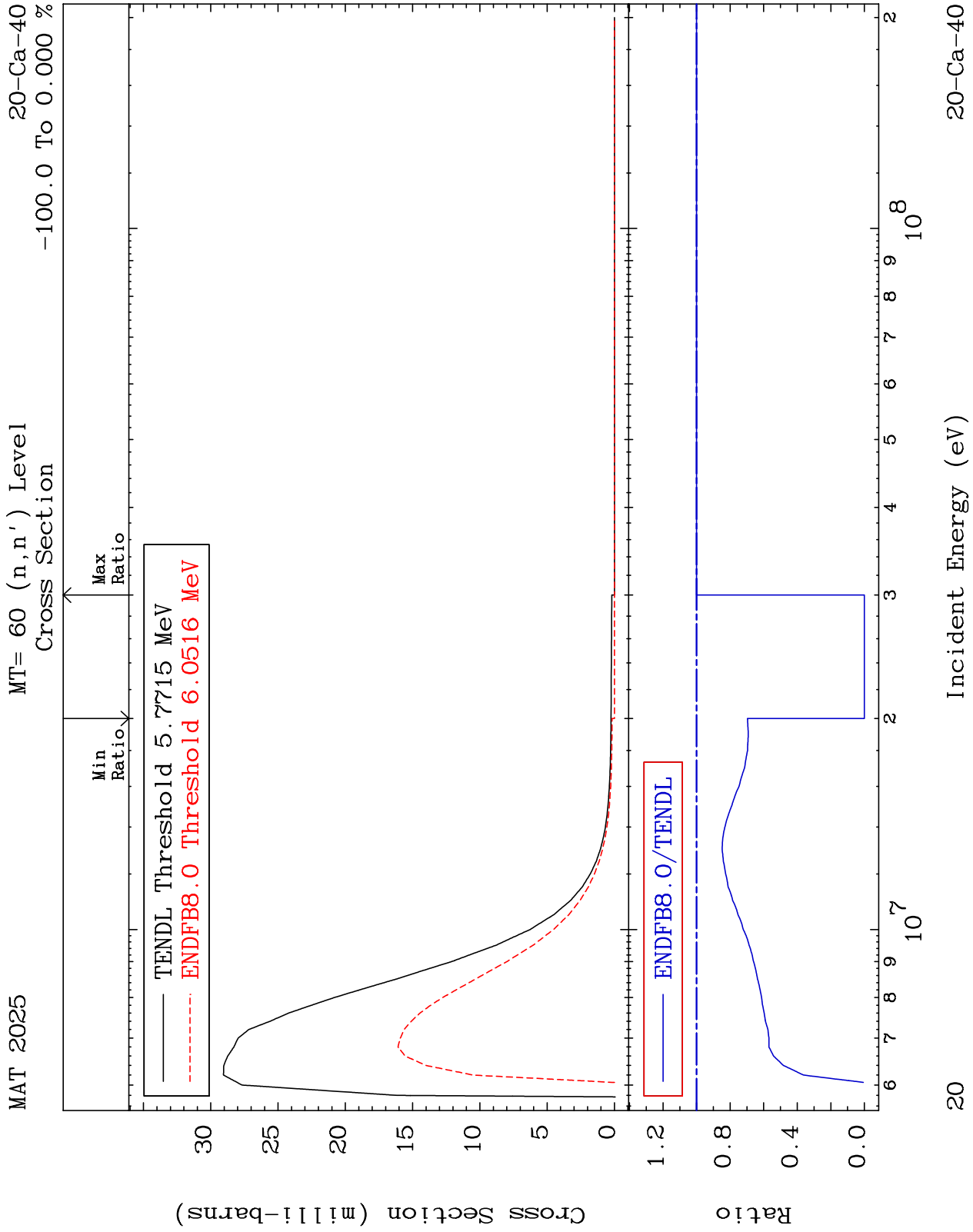
20-Ca-40  
-100.0 To 1556. %



19

Incident Energy (eV)

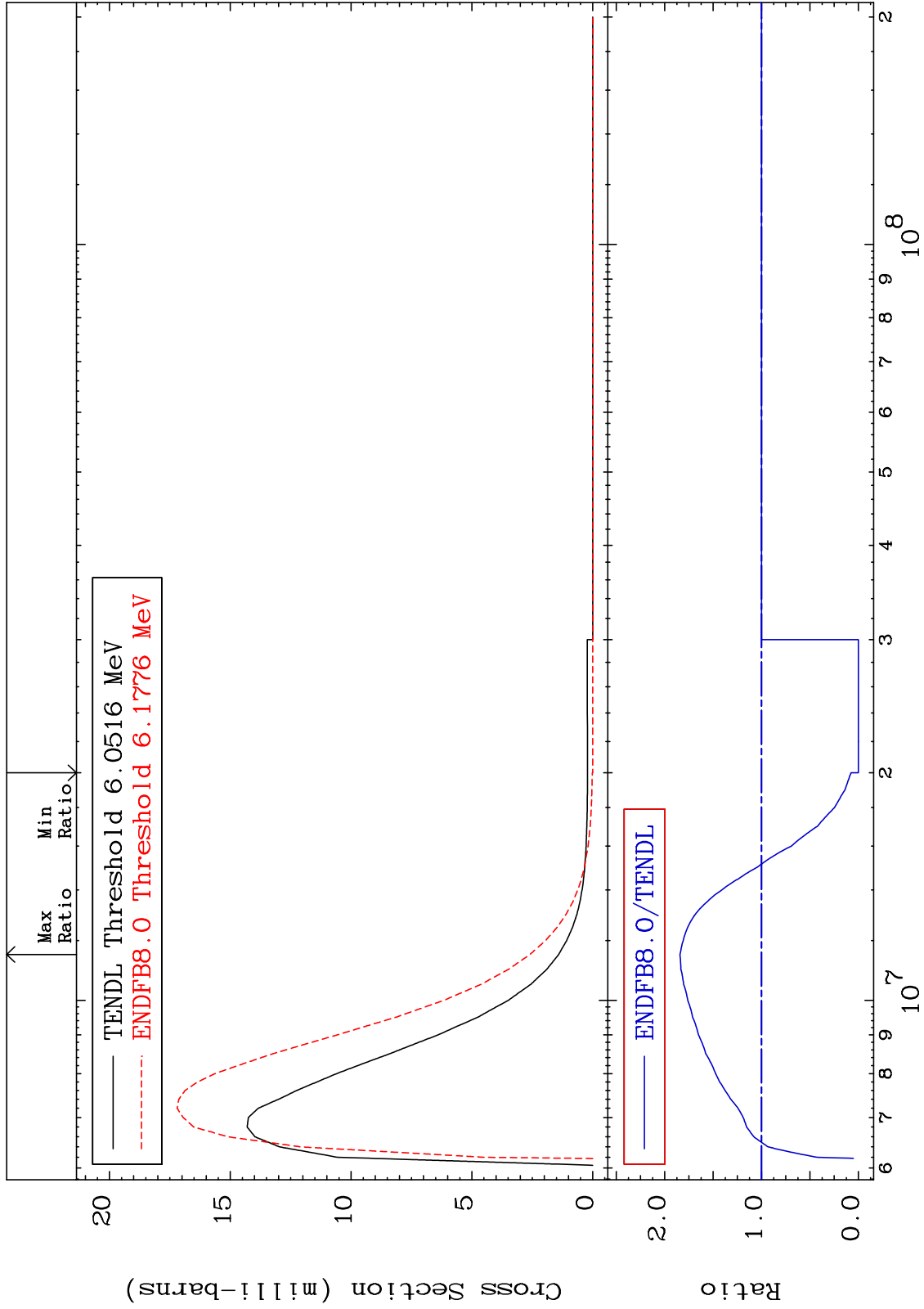
20-Ca-40



MAT 2025

MT= 61 (n,n') Level  
Cross Section

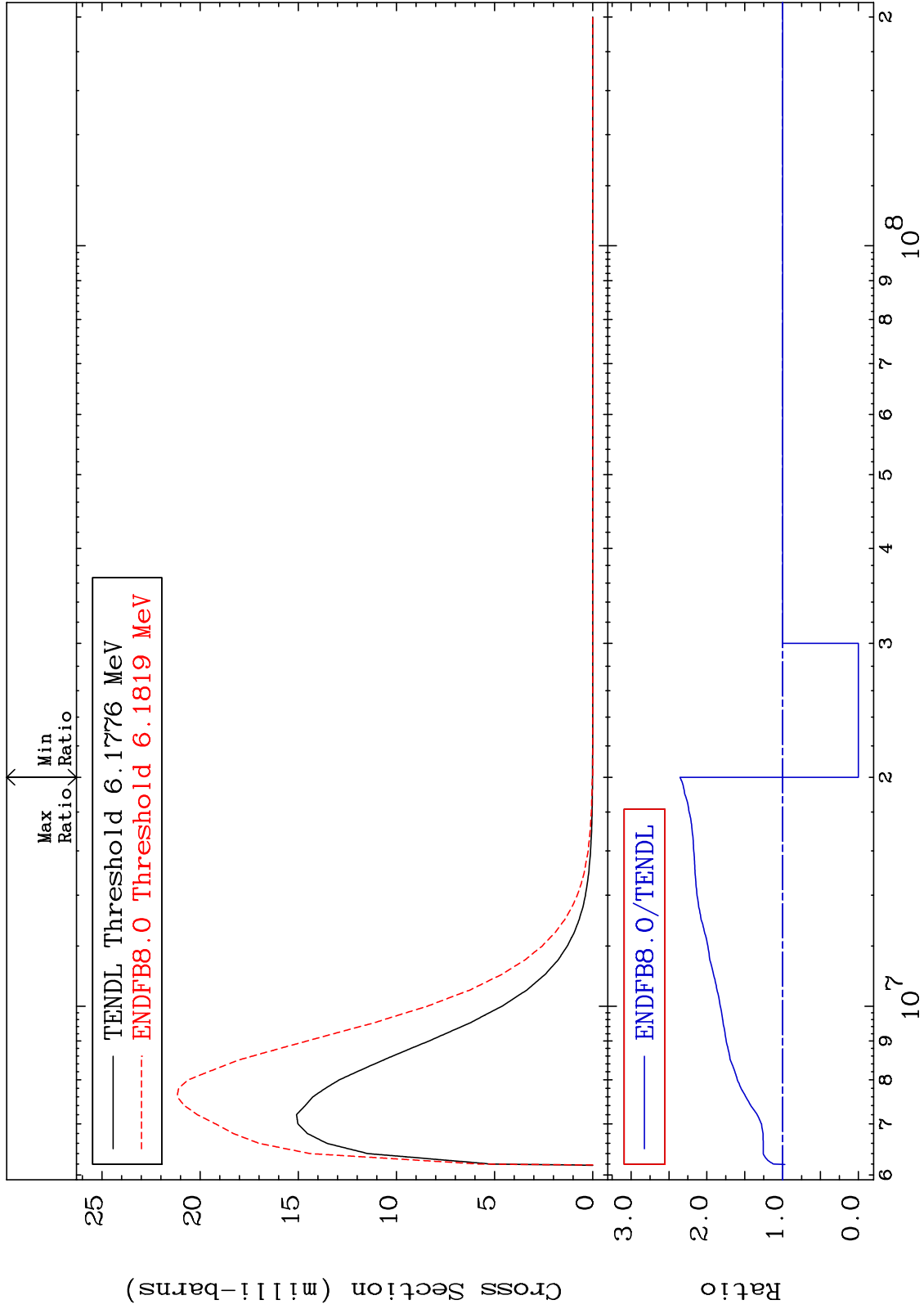
20-Ca-40  
-100.0 To 84.21 %



MAT 2025

MT= 62 (n,n') Level  
Cross Section

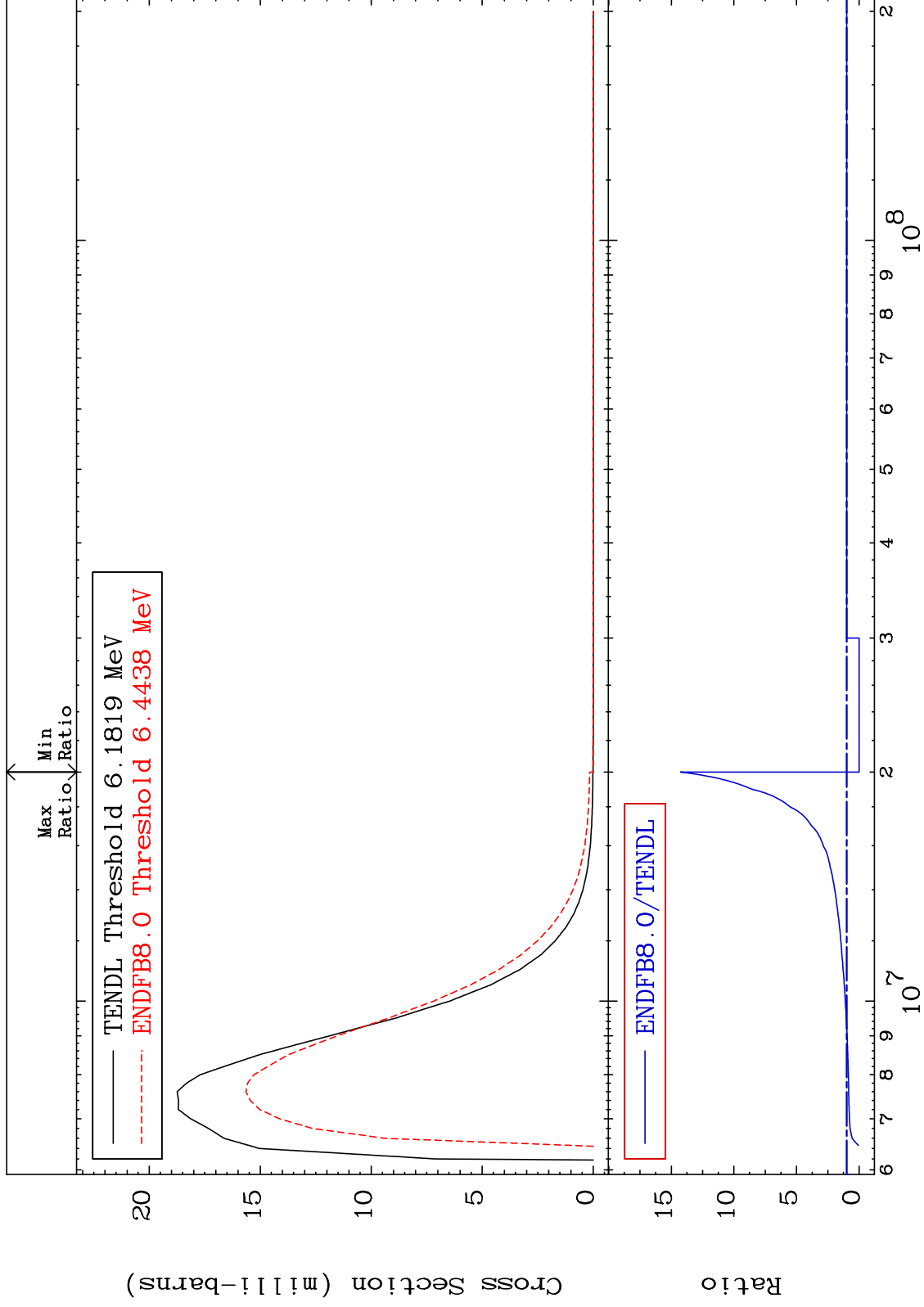
20-Ca-40  
-100.0 To 135.4 %



MAT 2025

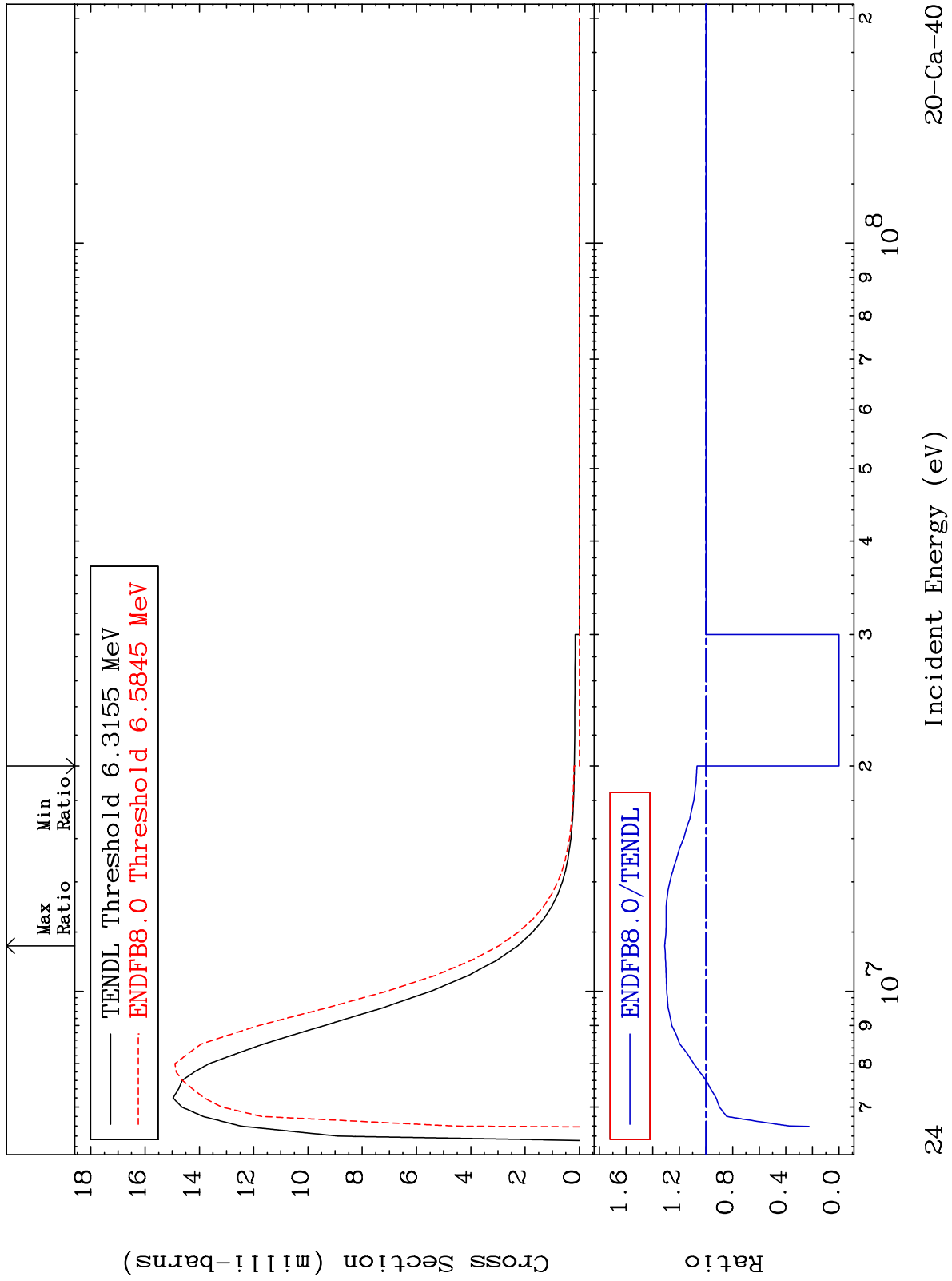
MT= 63 (n,n') Level  
Cross Section

20-Ca-40  
-100.0 To 1326. %





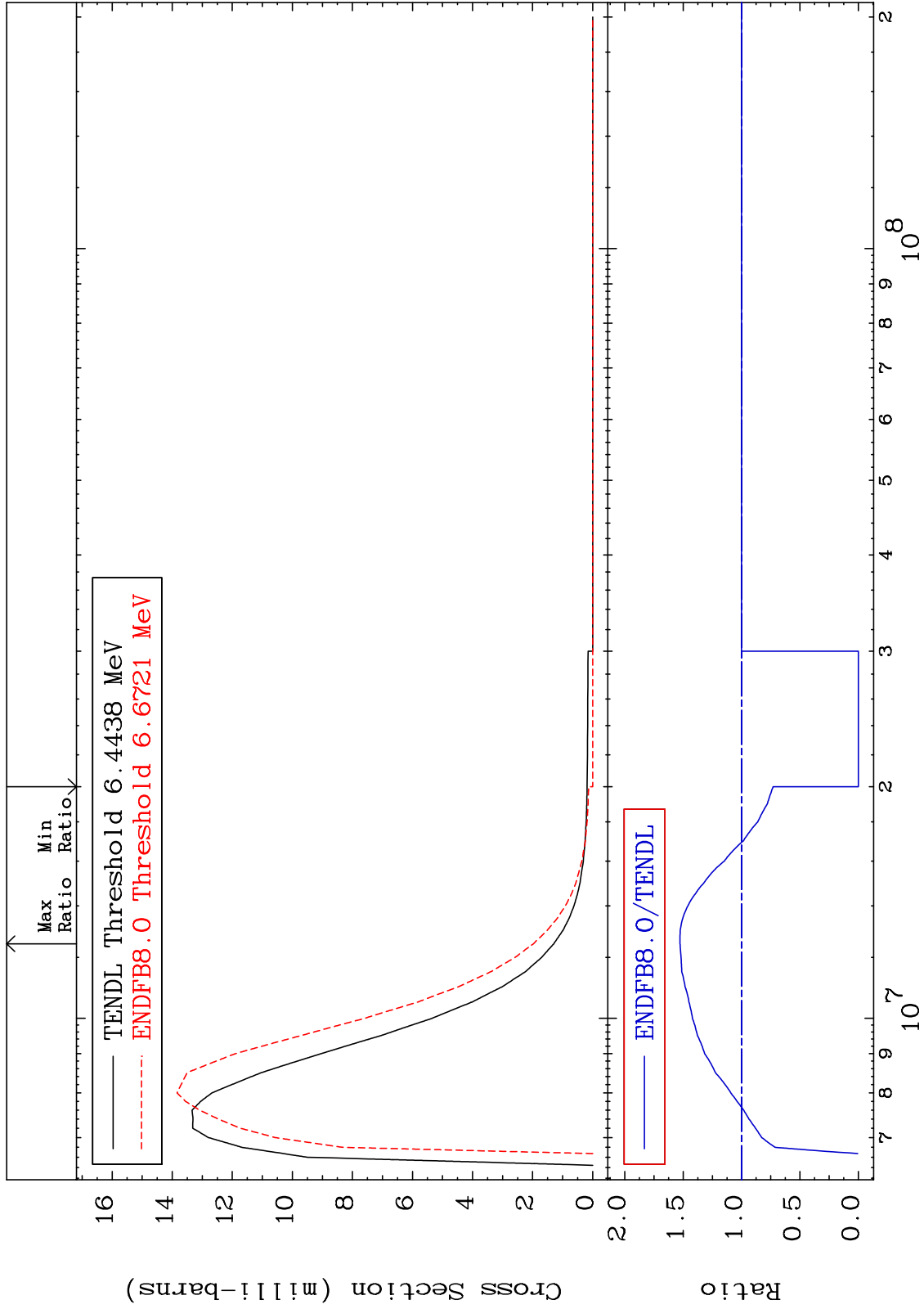
MAT 2025 MT= 64 (n,n') Level Cross Section 20-Ca-40  
 -100.0 To 30.99 %



MAT 2025

MT= 65 (n,n') Level  
Cross Section

20-Ca-40  
-100.0 To 52.67 %



25

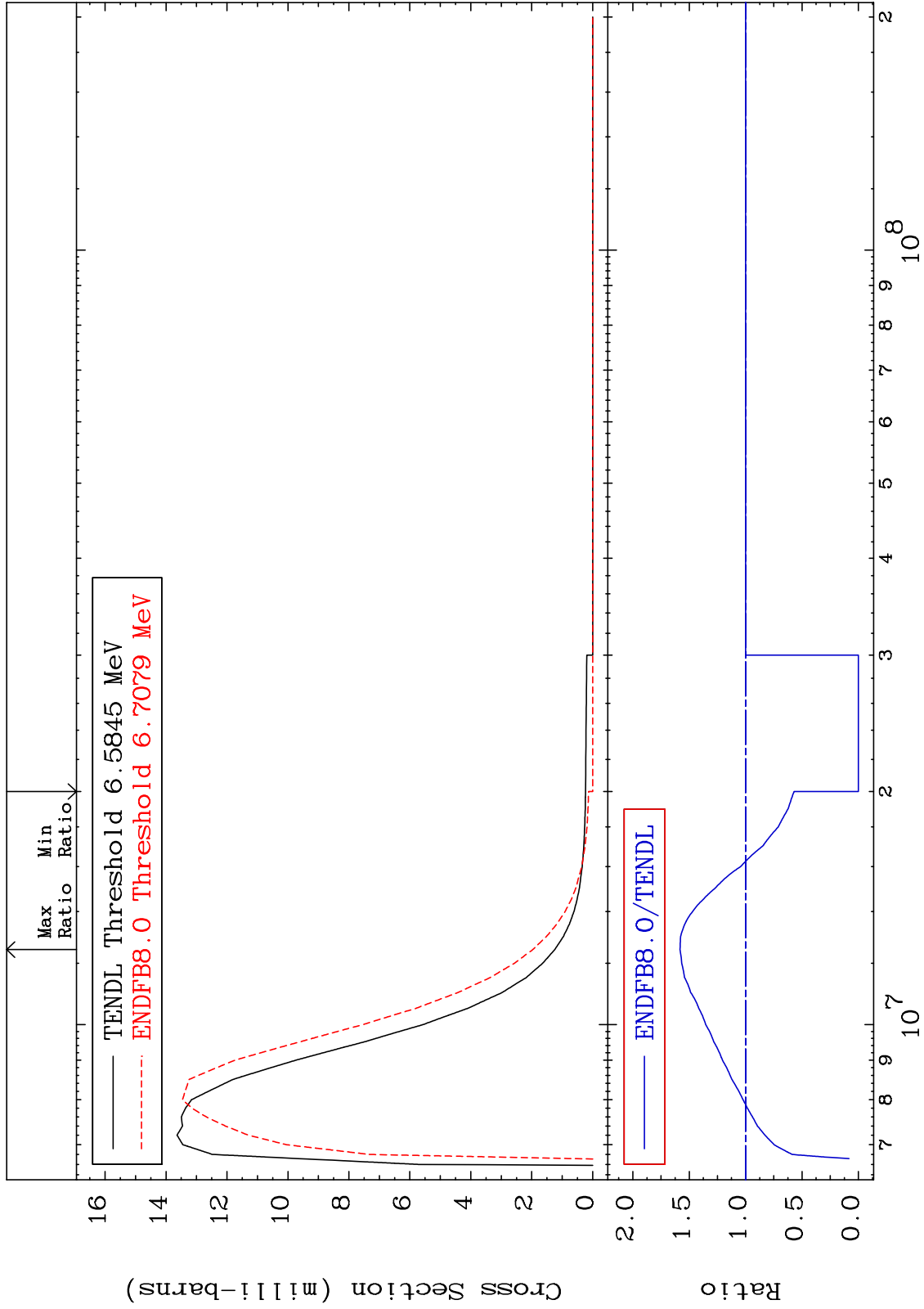
Incident Energy (eV)

20-Ca-40

MAT 2025

MT= 66 (n,n') Level  
Cross Section

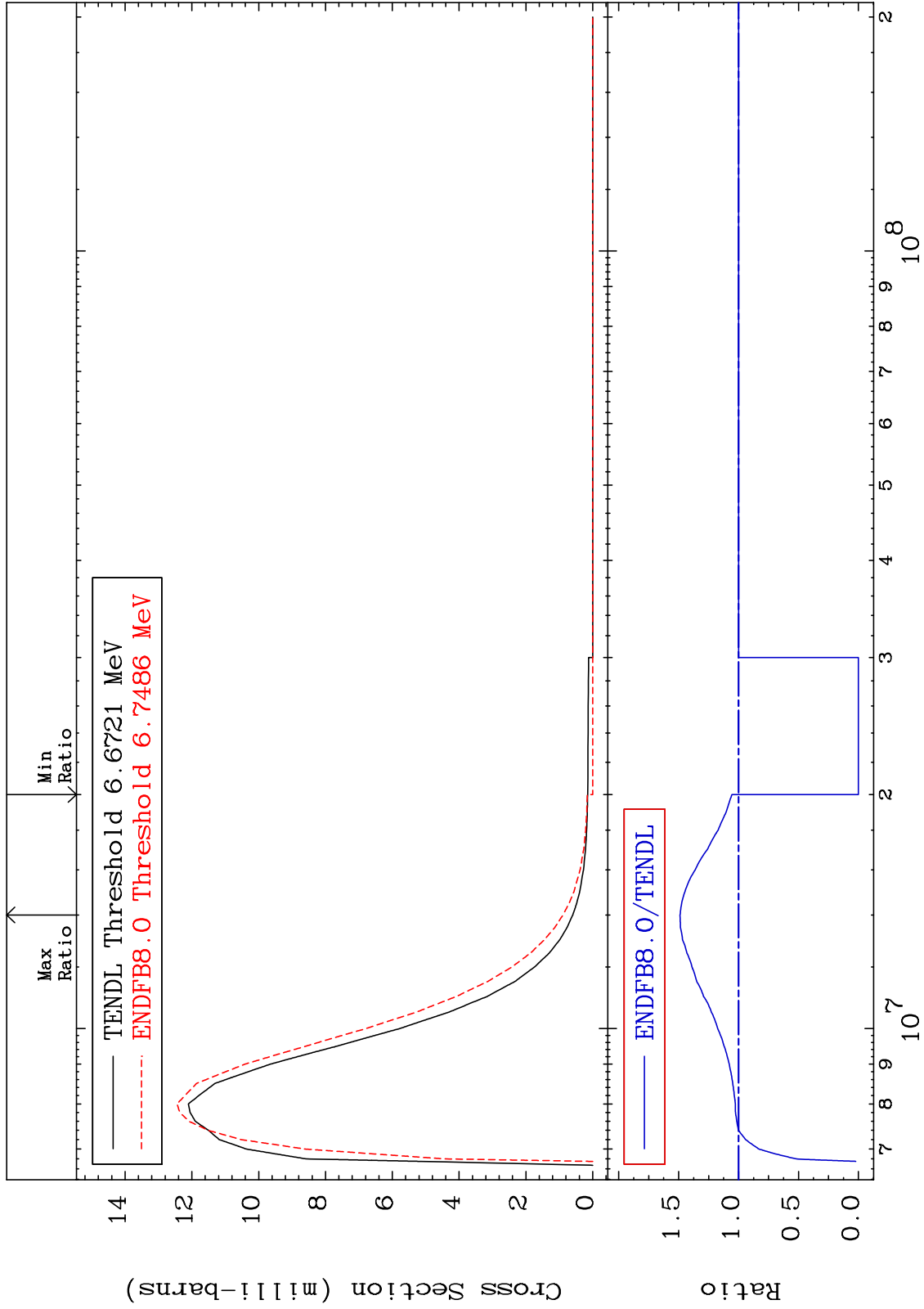
20-Ca-40  
-100.0 To 58.17 %



MAT 2025

MT= 67 (n,n') Level  
Cross Section

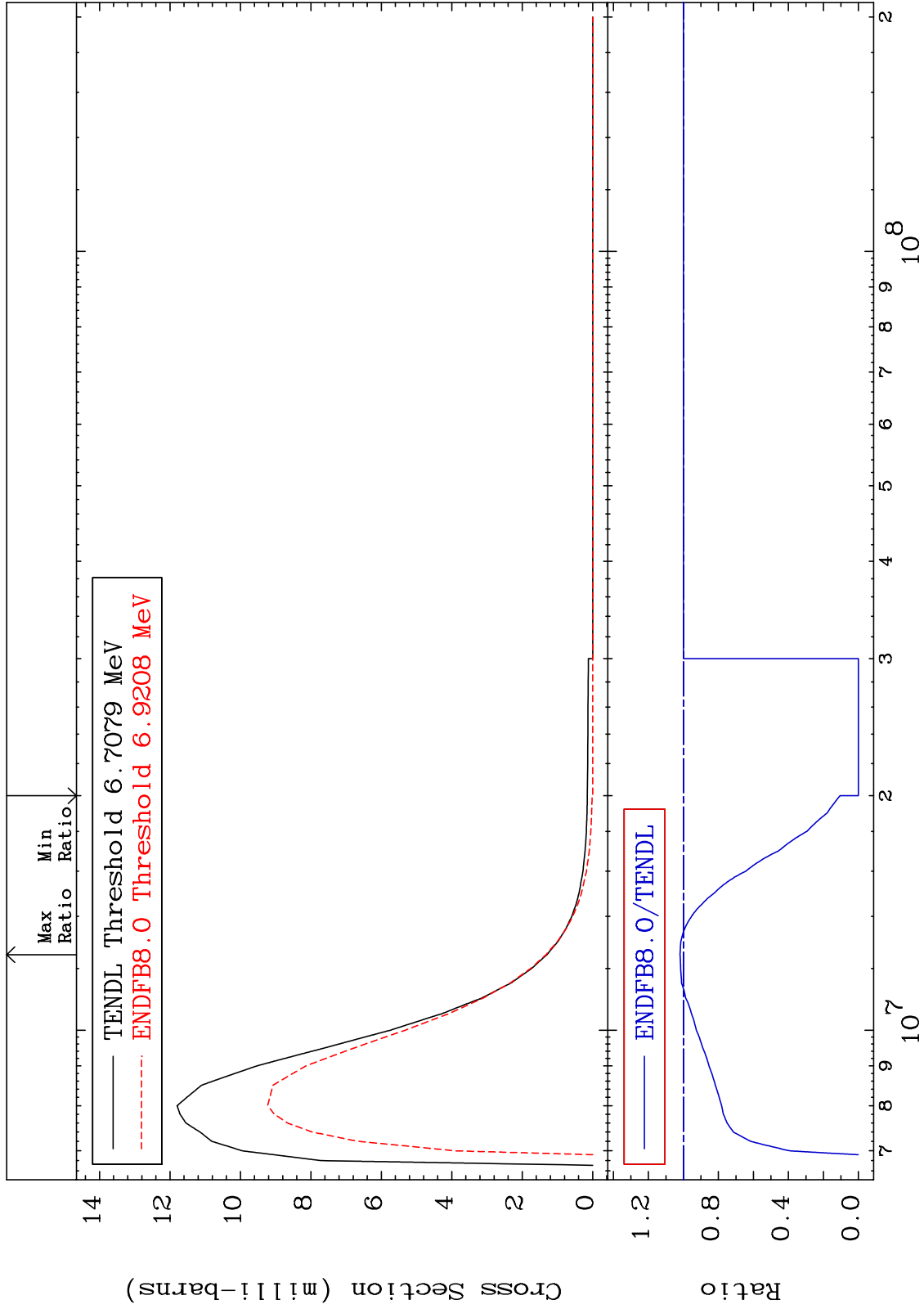
20-Ca-40  
-100.0 To 48.88 %



MAT 2025

MT= 68 (n,n') Level  
Cross Section

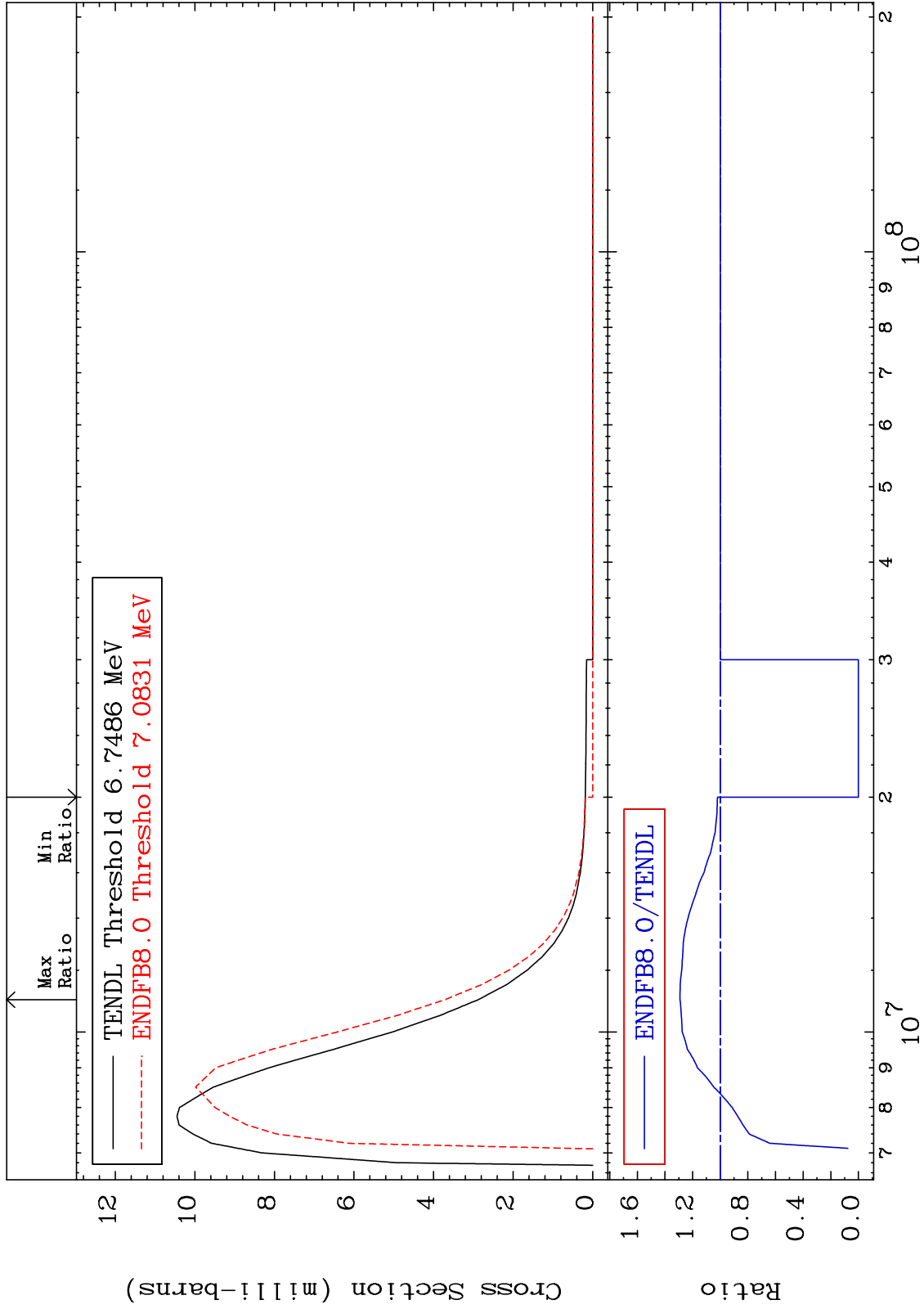
20-Ca-40  
-100.0 To 1.937 %



MAT 2025

MT= 69 (n,n') Level  
Cross Section

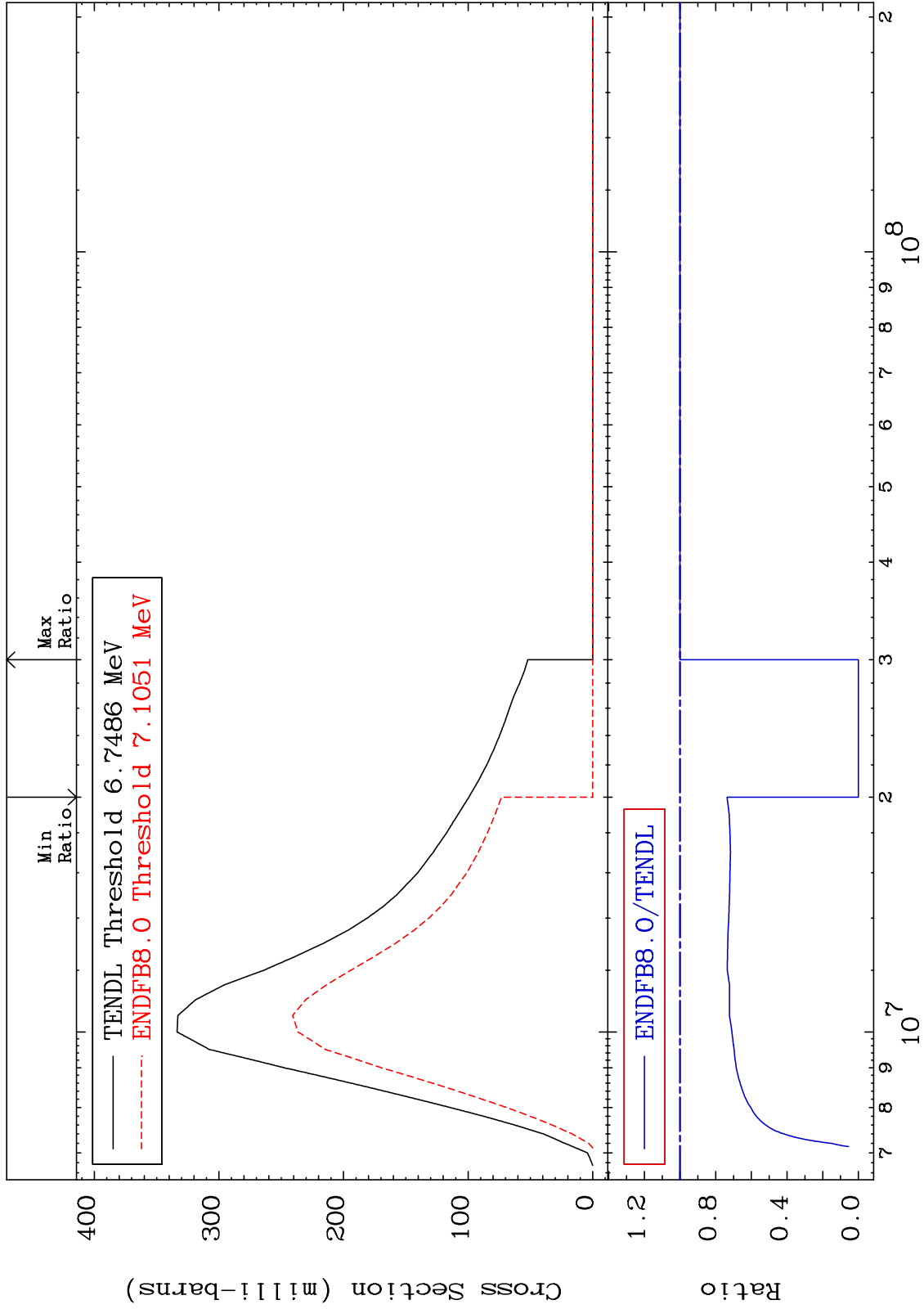
20-Ca-40  
-100.0 To 29.13 %



MAT 2025

(n,n') Continuum  
Cross Section

20-Ca-40  
-100.0 To 0.000 %



30

Incident Energy (eV)

20-Ca-40

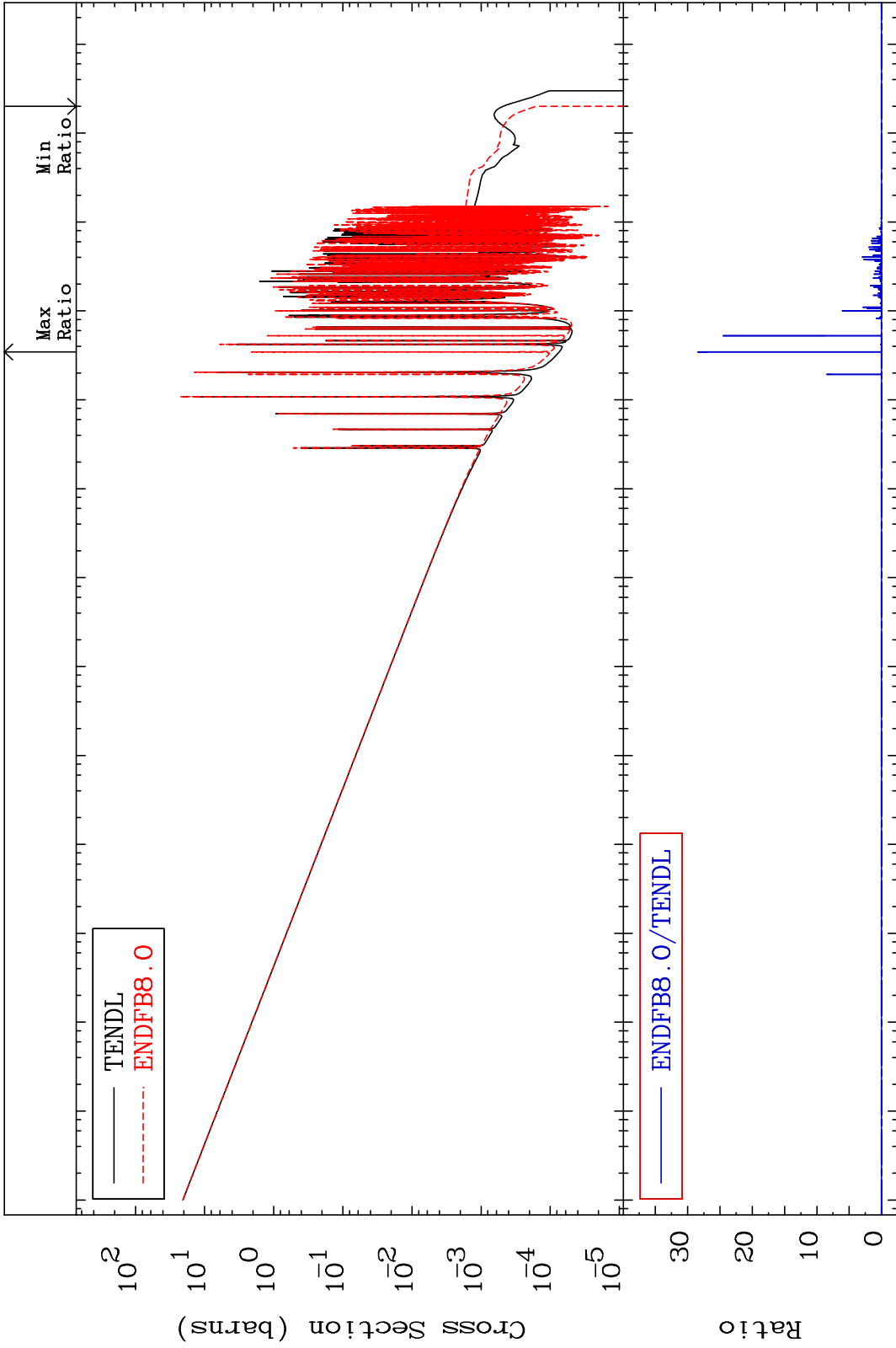
MAT 2025

(n,  $\gamma$ )

20-Ca-40

Cross Section

-100.0 To 9999. %



Incident Energy (eV)

20-Ca-40



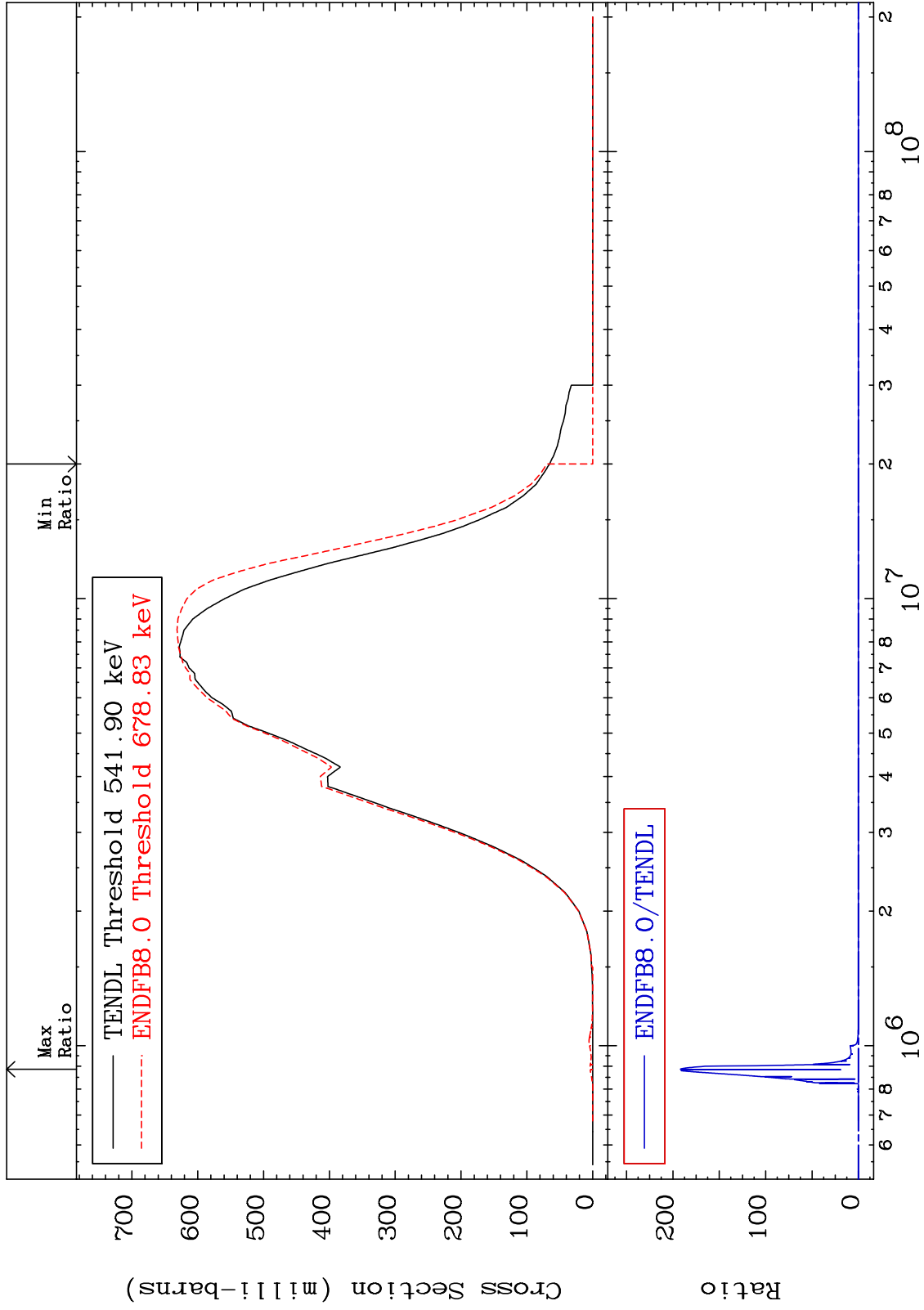
MAT 2025

(n,p)

20-Ca-40

Cross Section

-100.0 To 9999. %



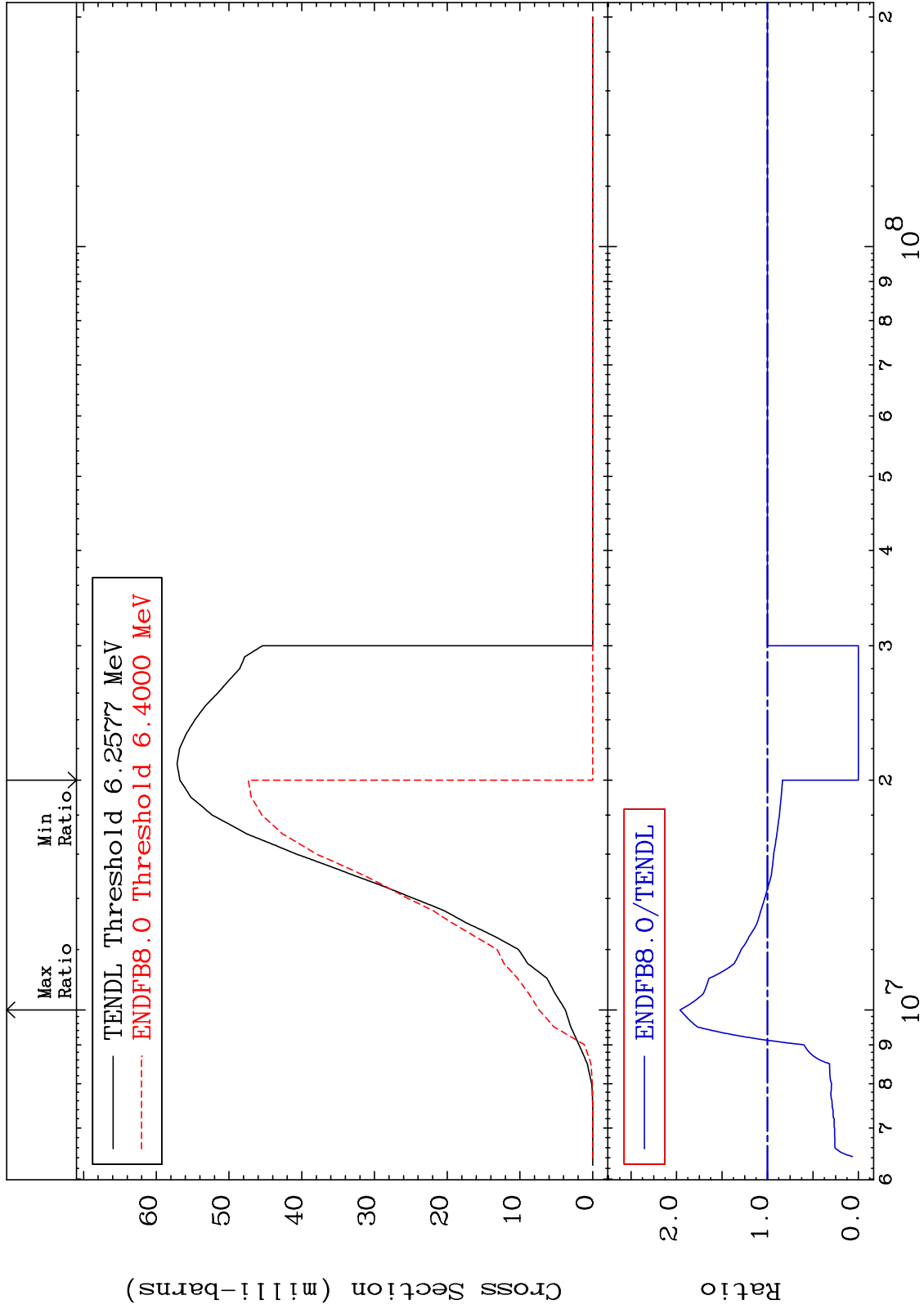
MAT 2025

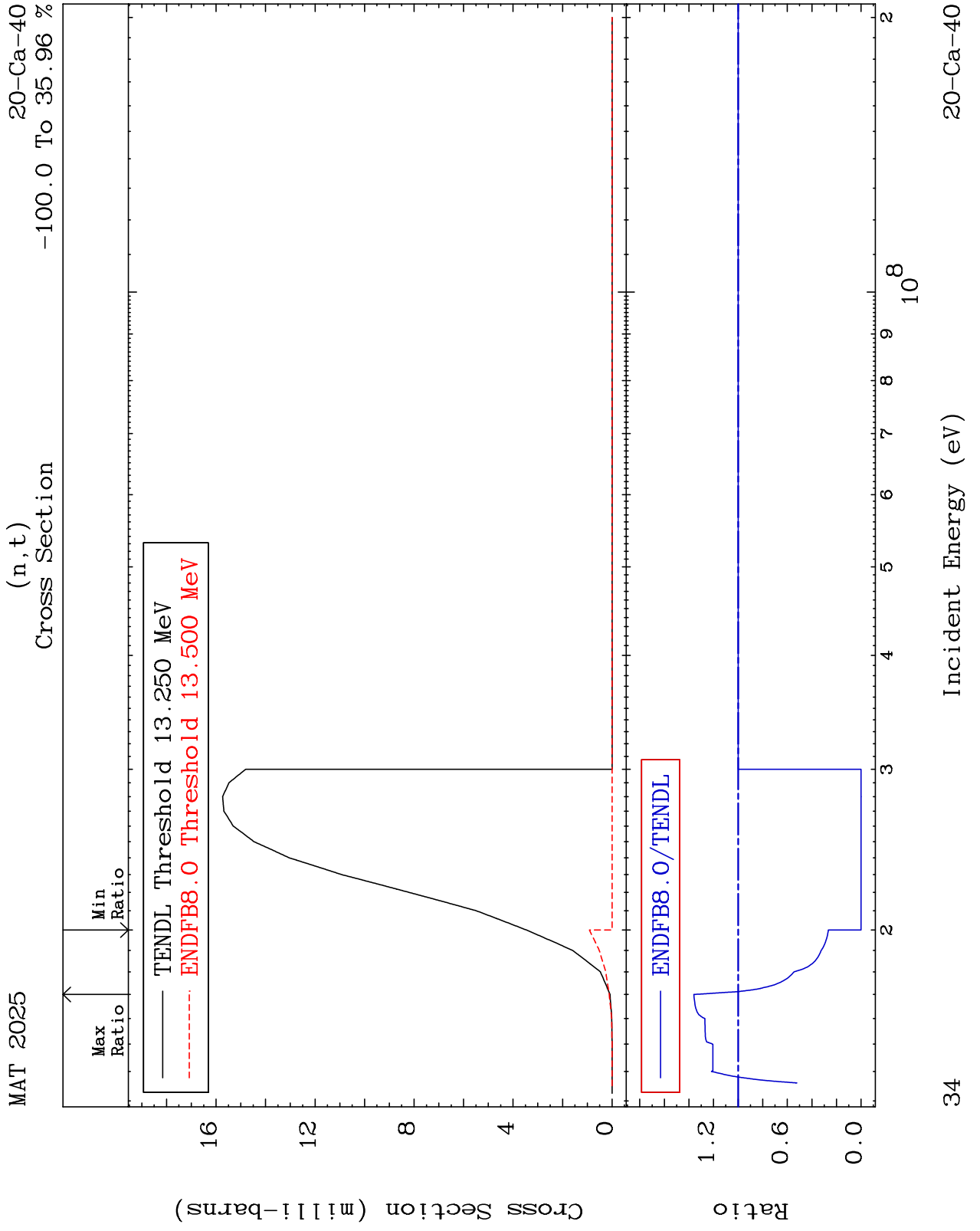
(n, d)

20-Ca-40

Cross Section

-100.0 To 96.15 %





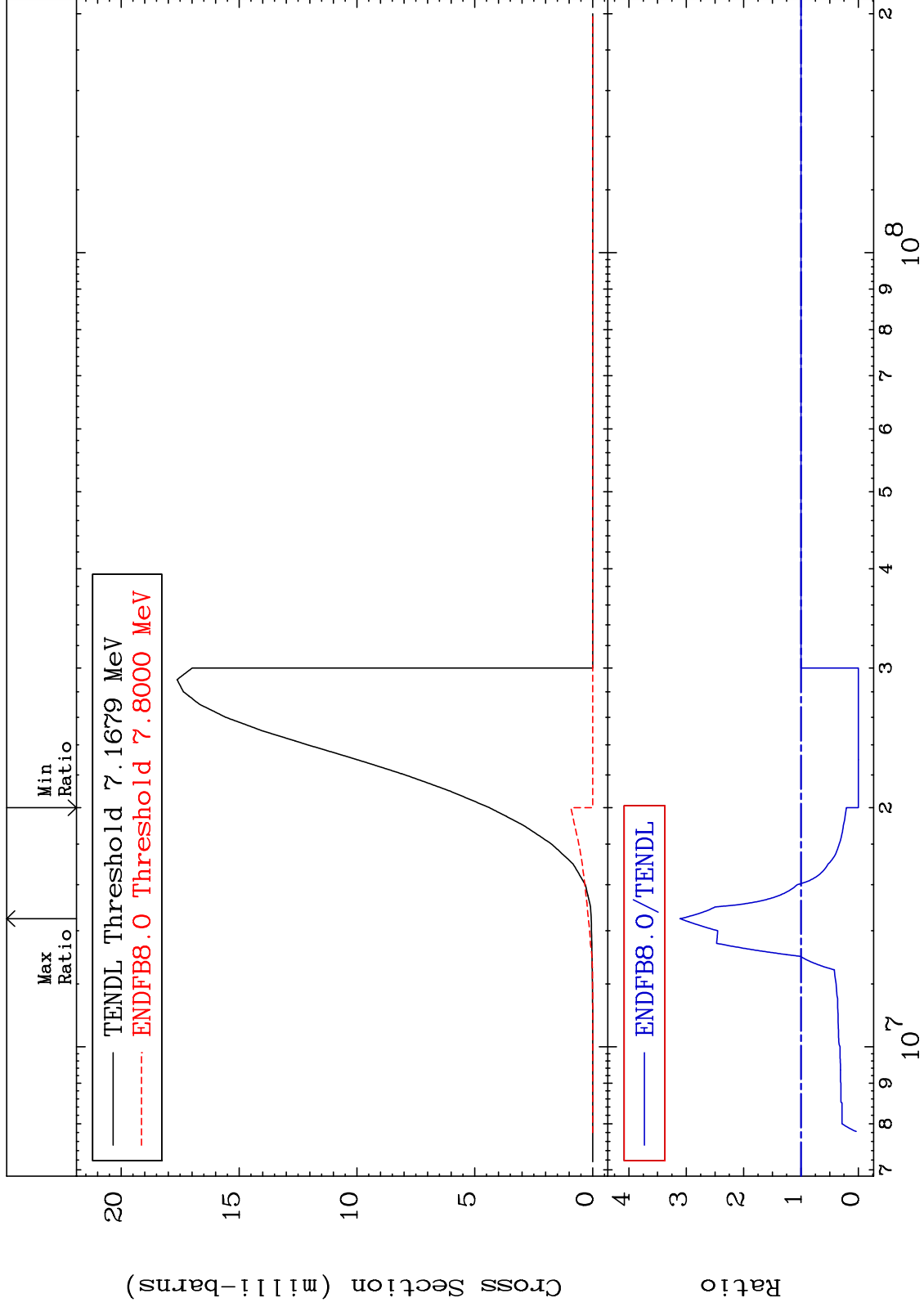
MAT 2025

(n, He-3)

20-Ca-40

Cross Section

-100.0 To 210.9 %



35

Incident Energy (eV)

20-Ca-40

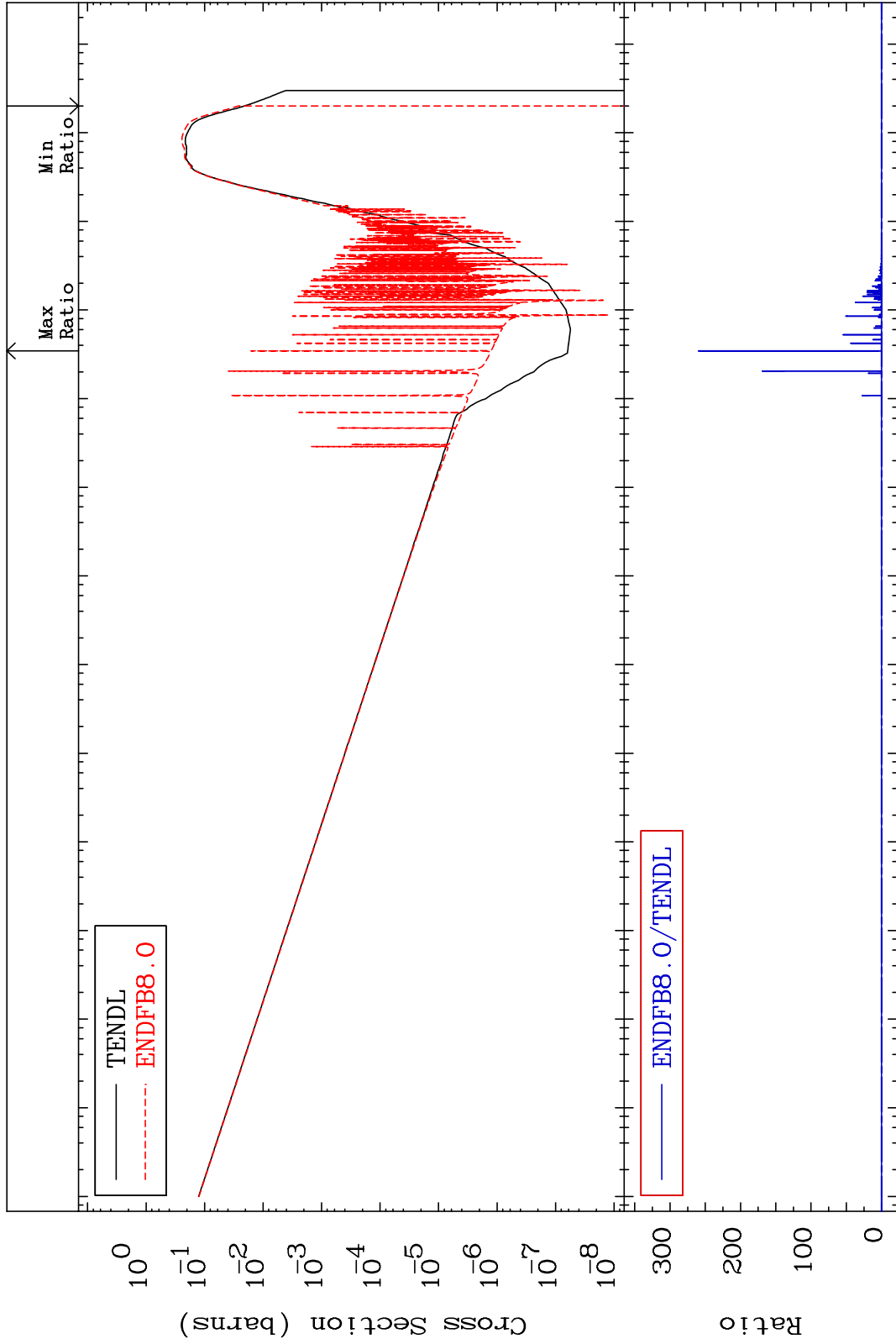
MAT 2025

(n,  $\alpha$ )

20-Ca-40

Cross Section

-100.0 To 9999. %



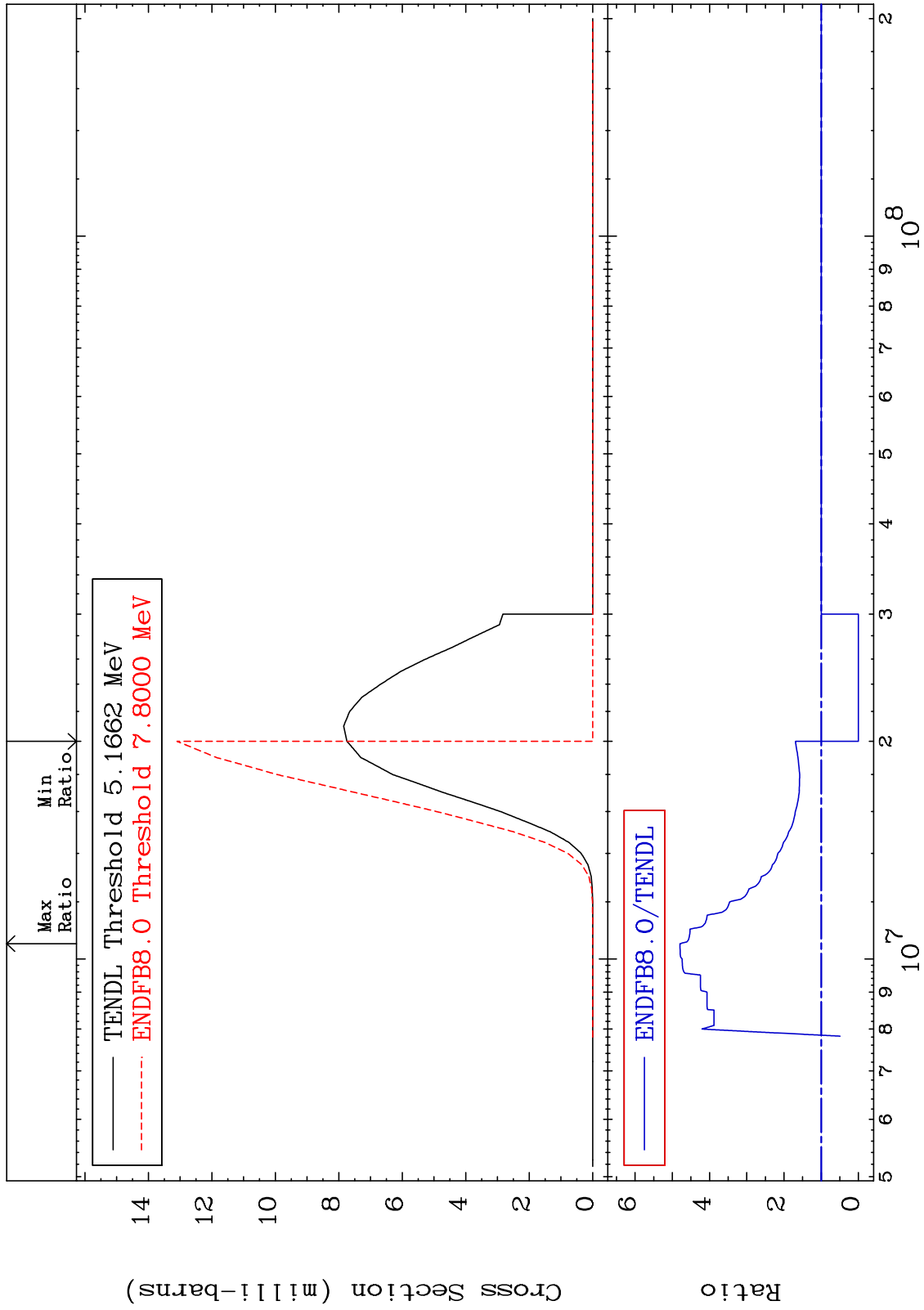
MAT 2025

(n, 2α)

20-Ca-40

Cross Section

-100.0 To 379.3 %



37

Incident Energy (eV)

20-Ca-40

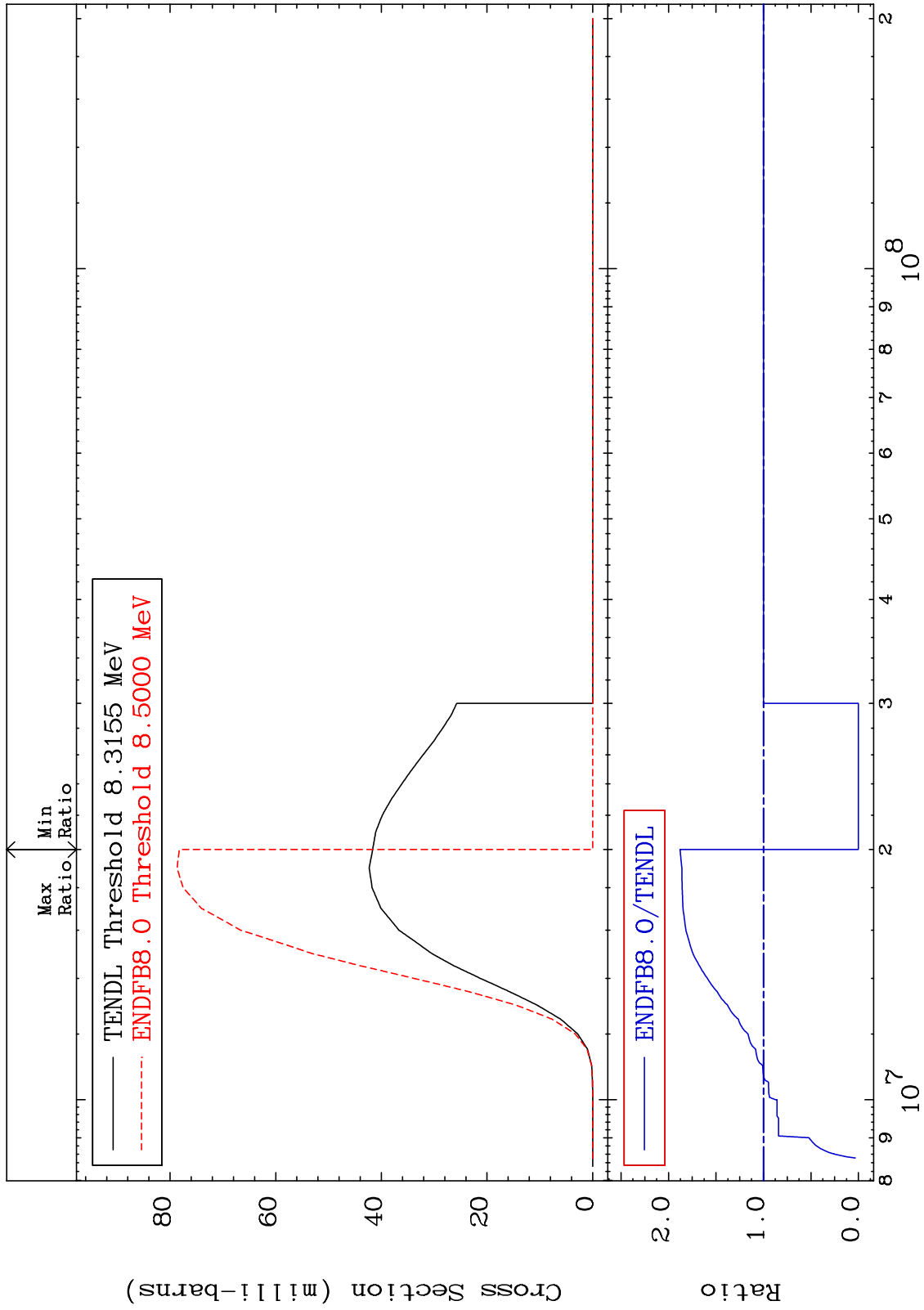
MAT 2025

(n,2p)

20-Ca-40

Cross Section

-100.0 To 87.88 %



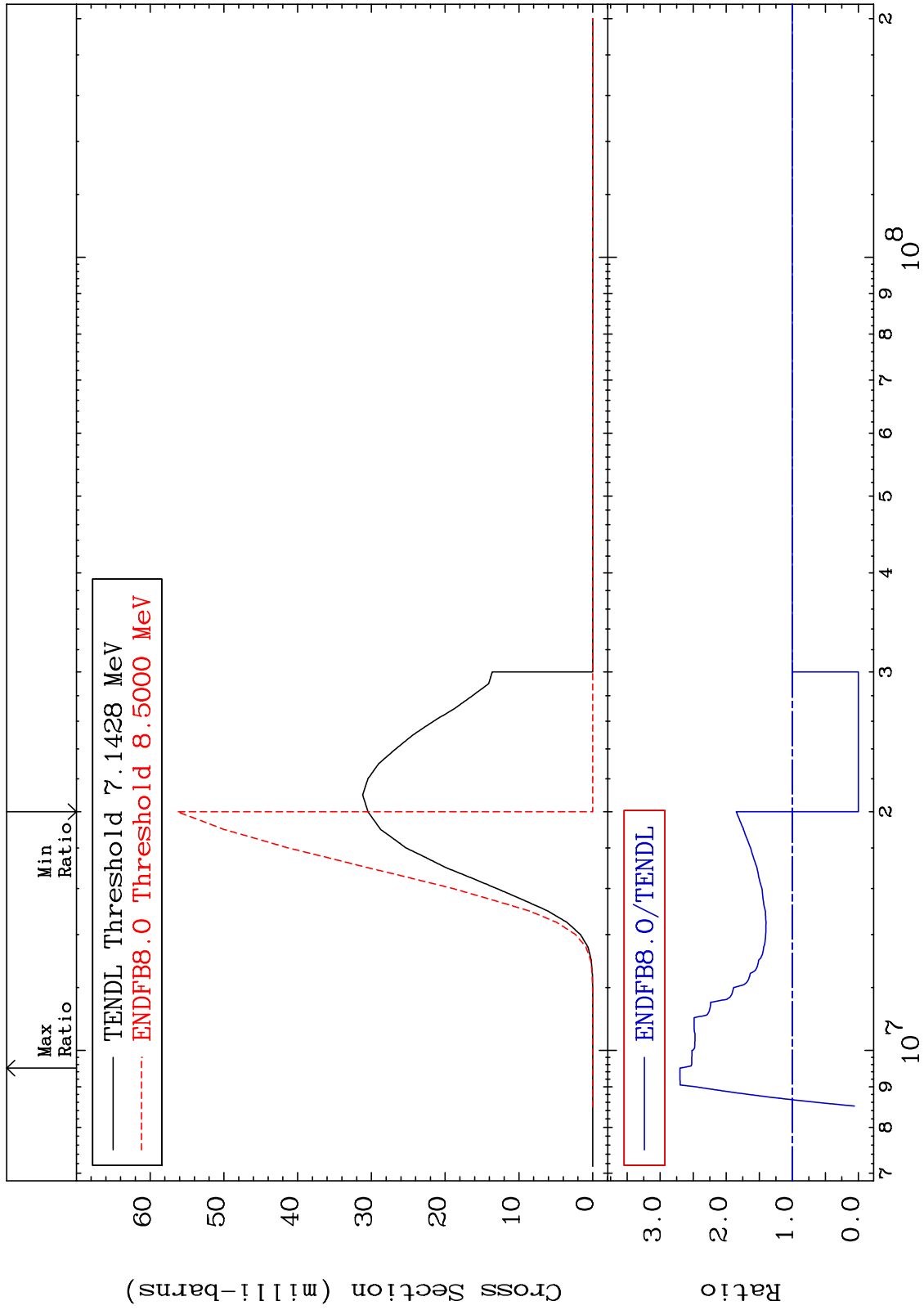
MAT 2025

(n,p)  $\alpha$

20-Ca-40

Cross Section

-100.0 To 170.0 %





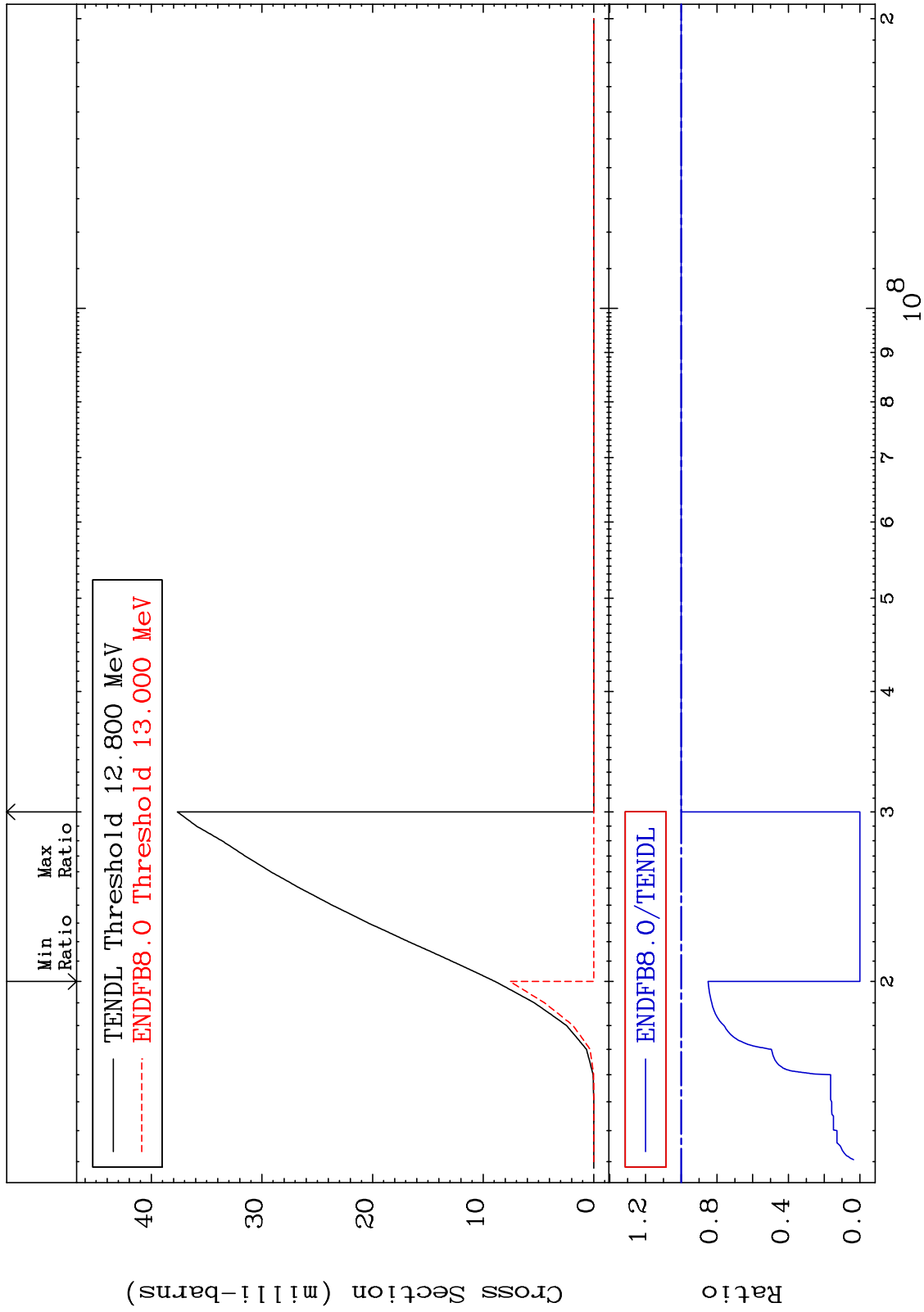
MAT 2025

(n,p) d

20-Ca-40

Cross Section

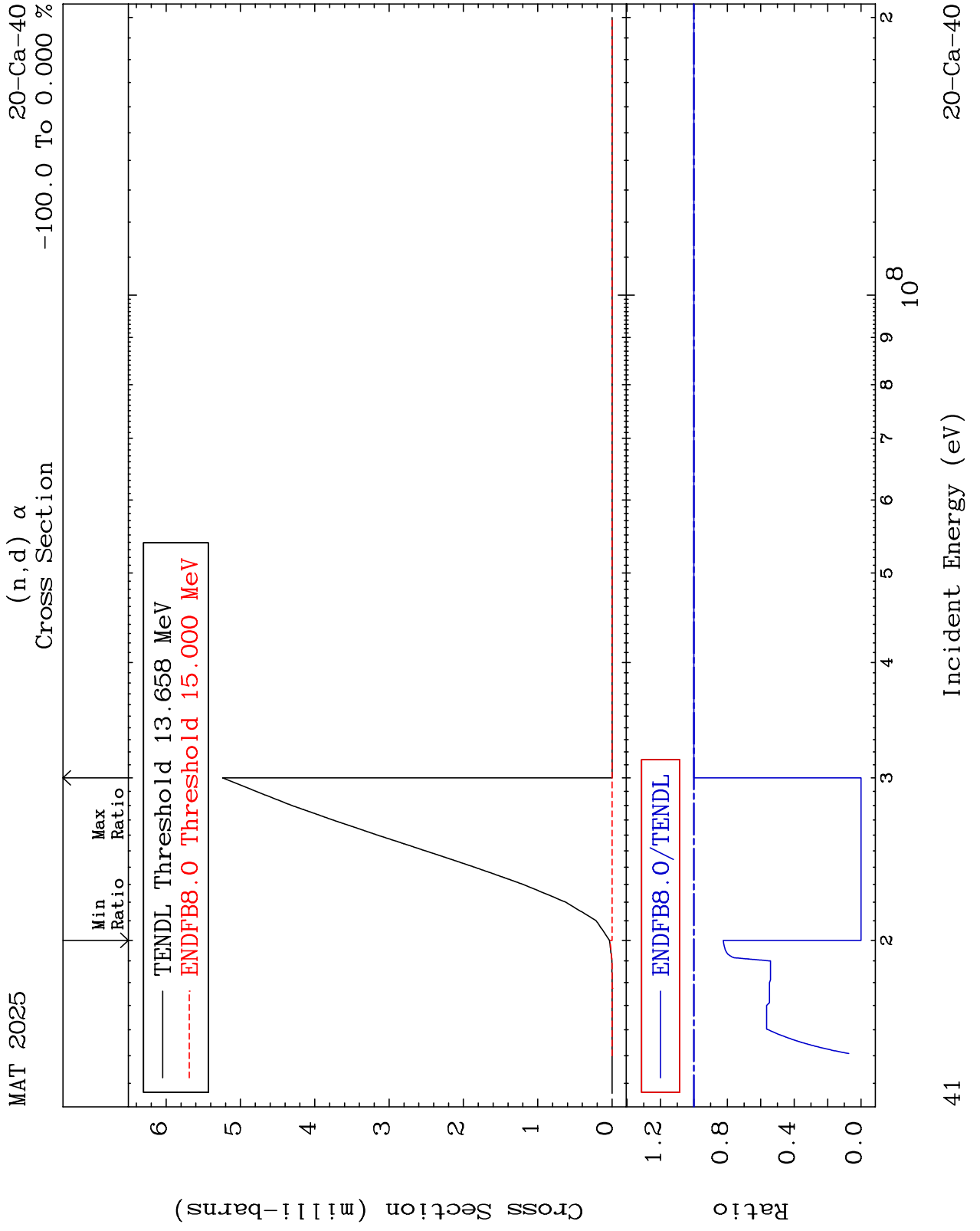
-100.0 To 0.000 %



40

Incident Energy (eV)

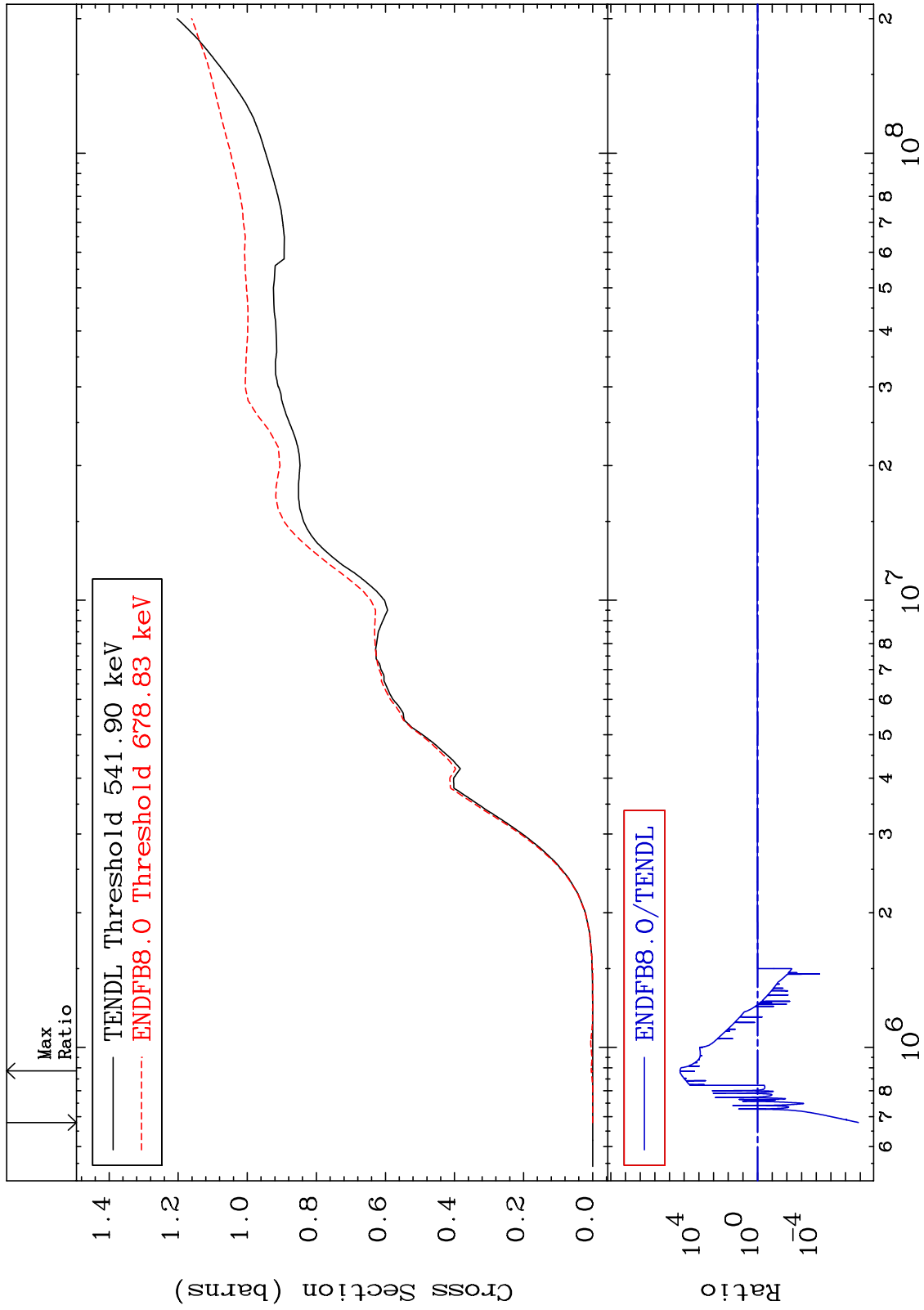
20-Ca-40



MAT 2025

### Hydrogen Production Cross Section

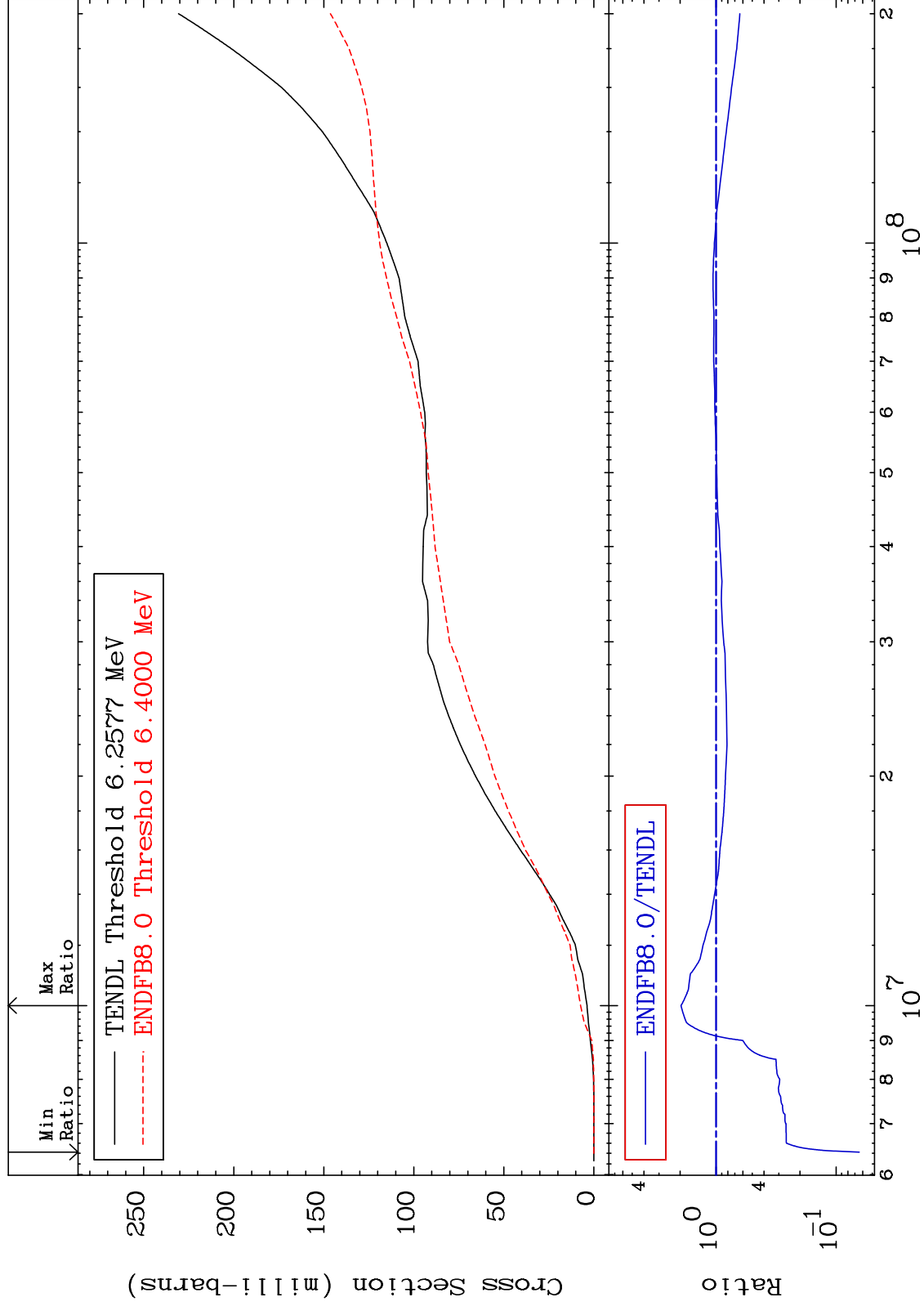
20-Ca-40  
-100.0 To 9999. %

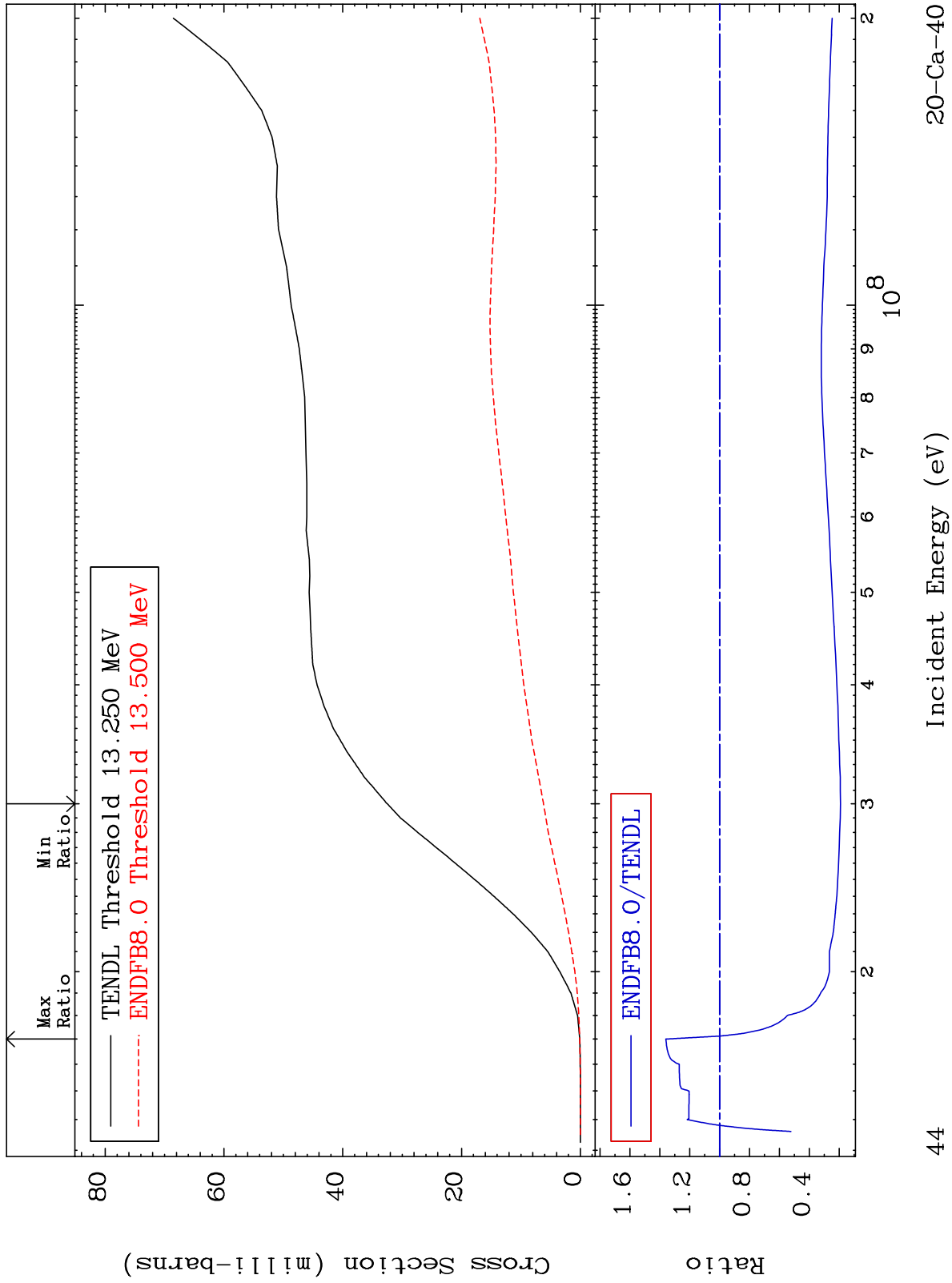


MAT 2025

Deuterium Production  
Cross Section

20-Ca-40  
-93.58 To 96.15 %

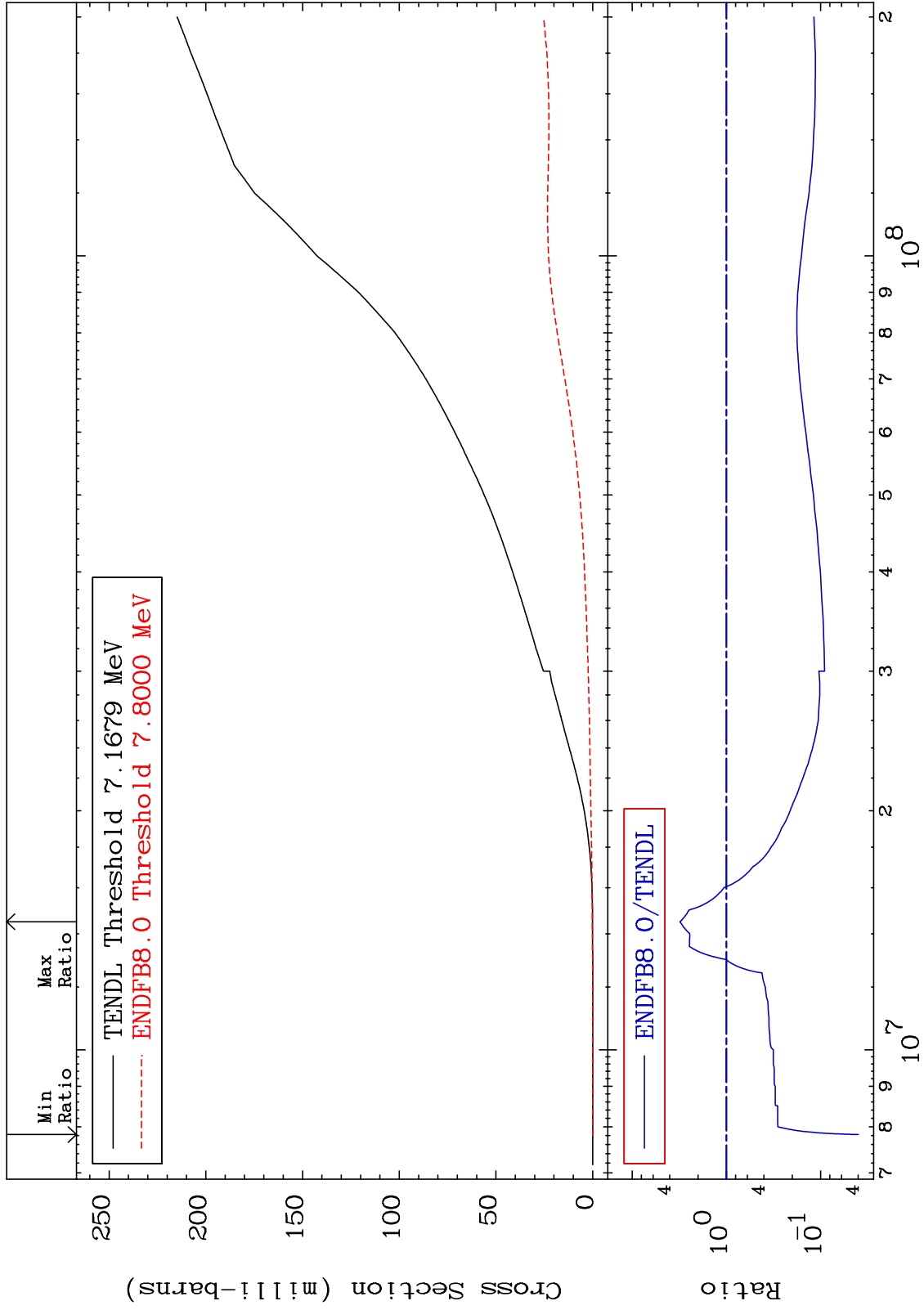




MAT 2025

He-3 Production  
Cross Section

20-Ca-40  
-96.02 To 210.9 %

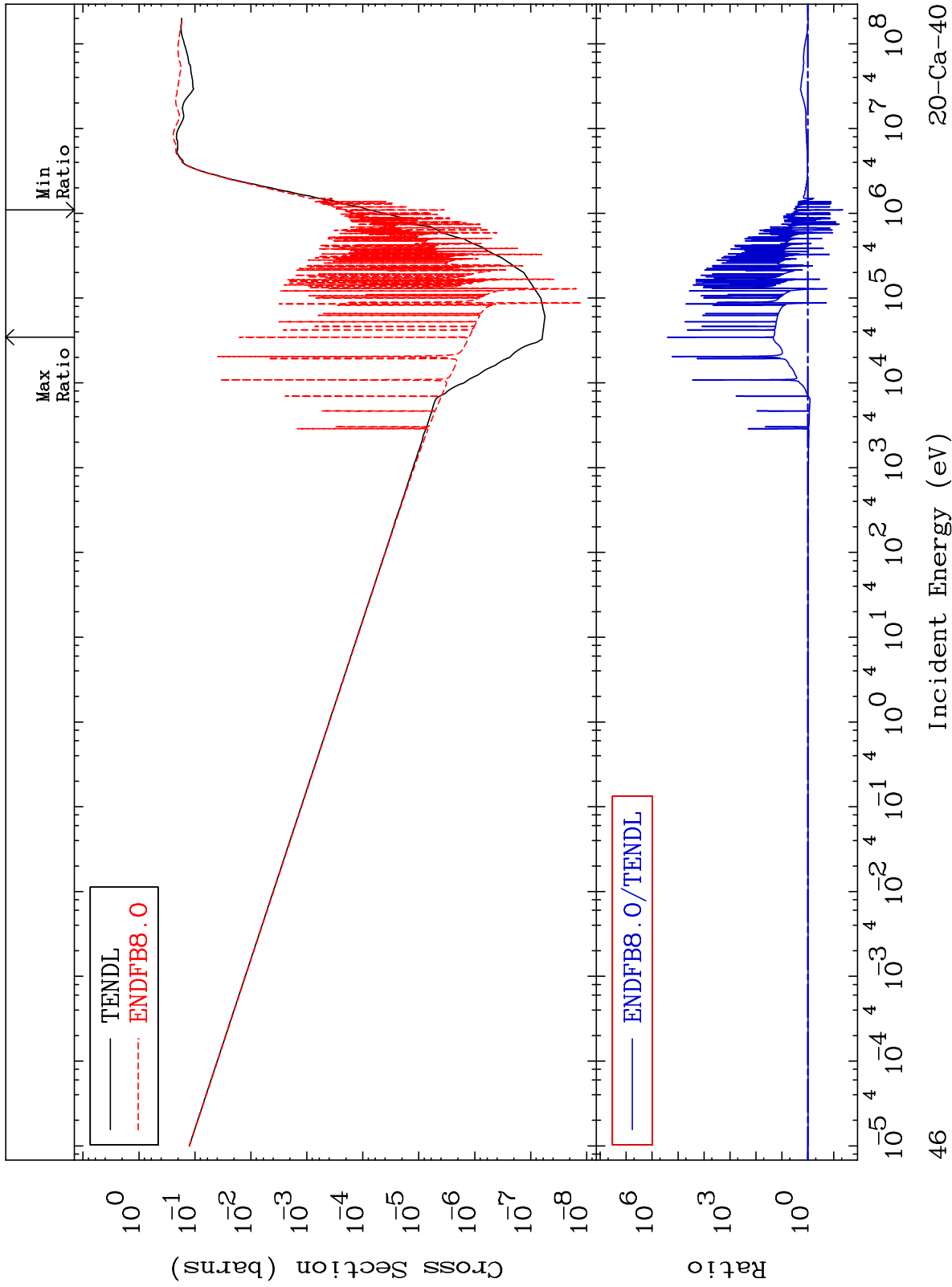


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MAT 2025

### He-4 Production Cross Section

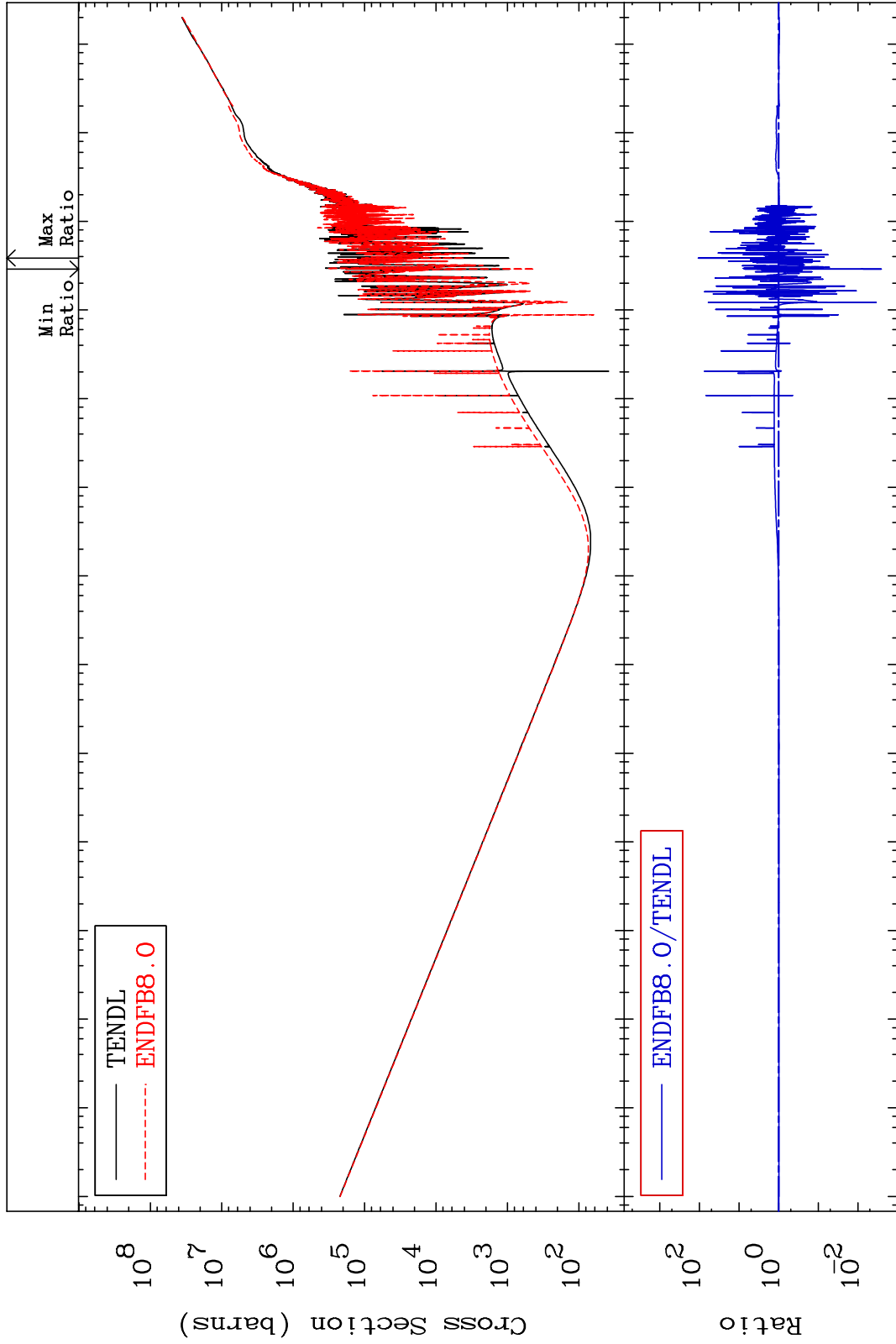
20-Ca-40  
-95.41 To 9999. %



MAT 2025

Kerma total (eV-barns)  
Cross Section

20-Ca-40  
-99.75 To 9999. %



47

Incident Energy (eV)

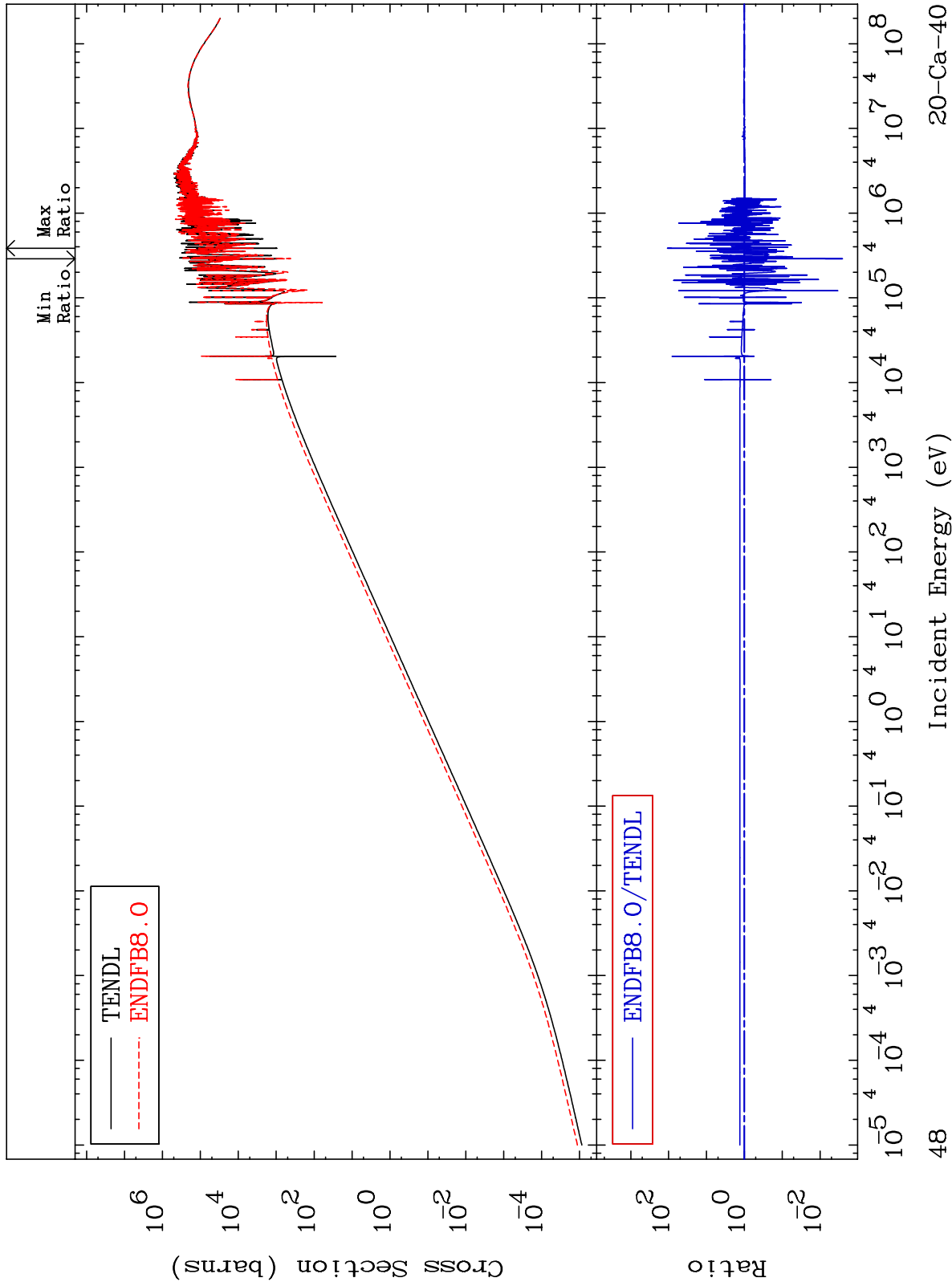
20-Ca-40



MAT 2025

Kerma elastic  
Cross Section

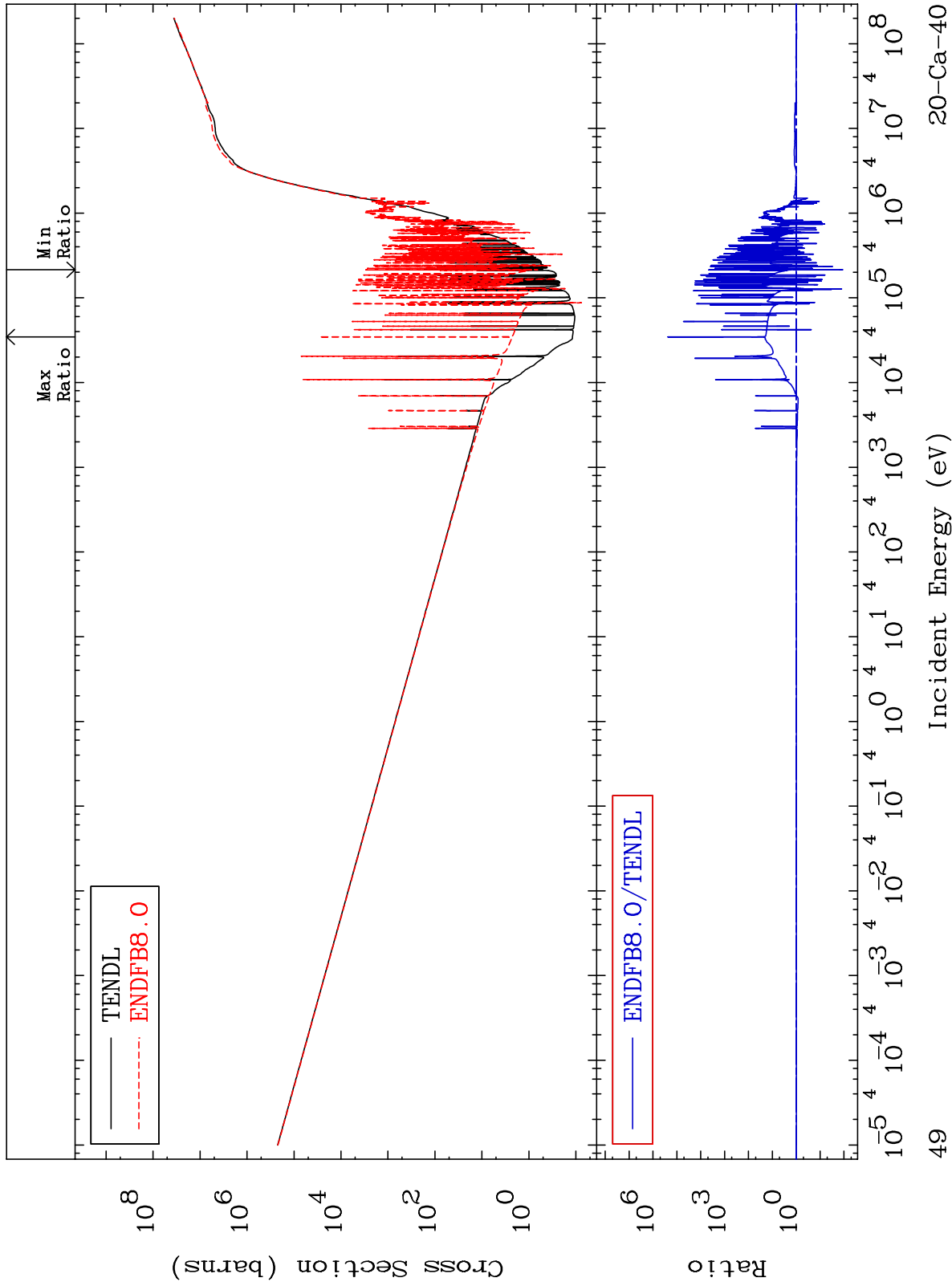
20-Ca-40  
-99.75 To 9999. %



MAT 2025

Kerma non-elastic (all but mt2)  
Cross Section

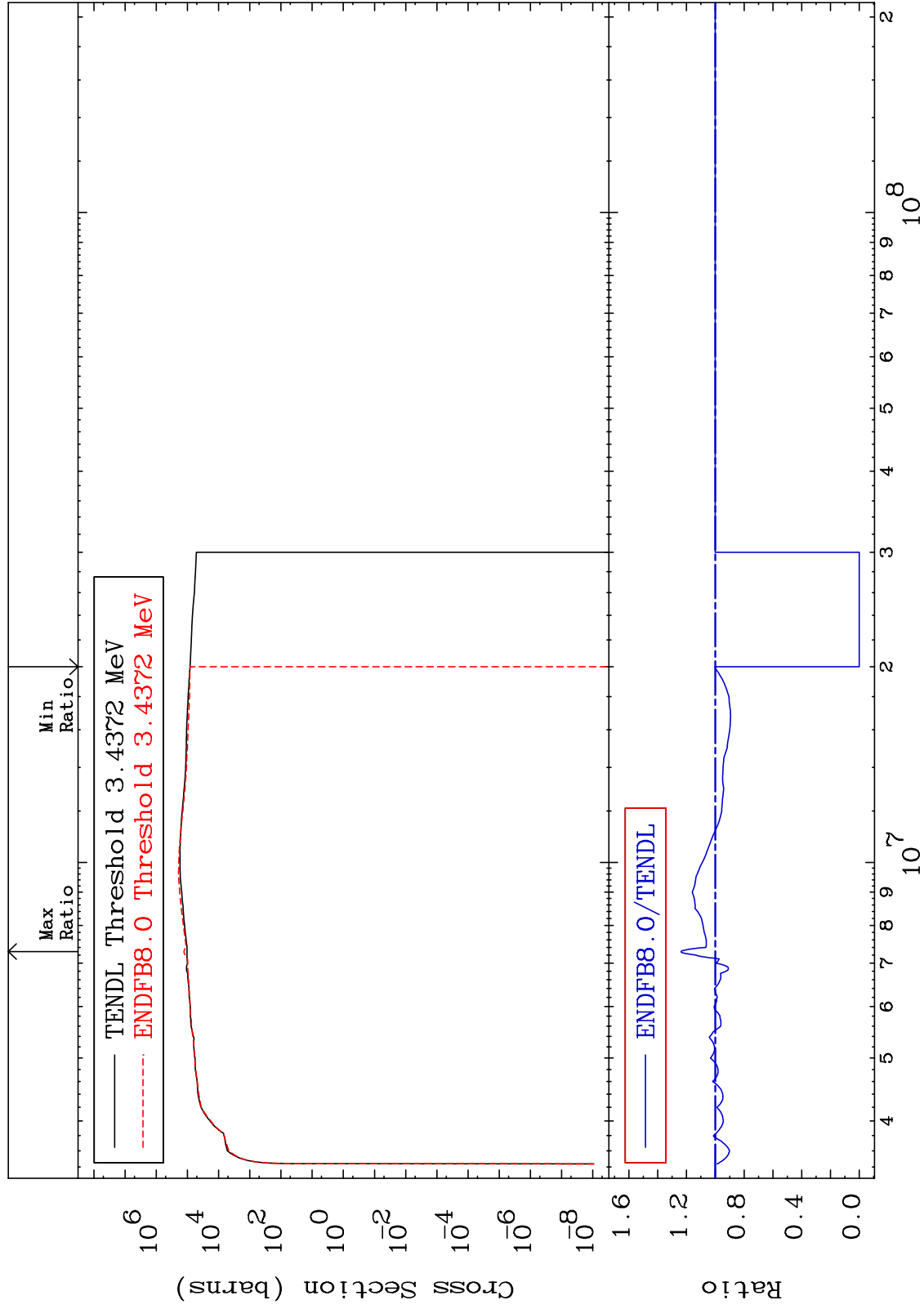
20-Ca-40  
-98.87 To 9999. %



MAT 2025

Kerma inelastic (mt51-91)  
Cross Section

20-Ca-40  
-100.0 To 23.79 %



50

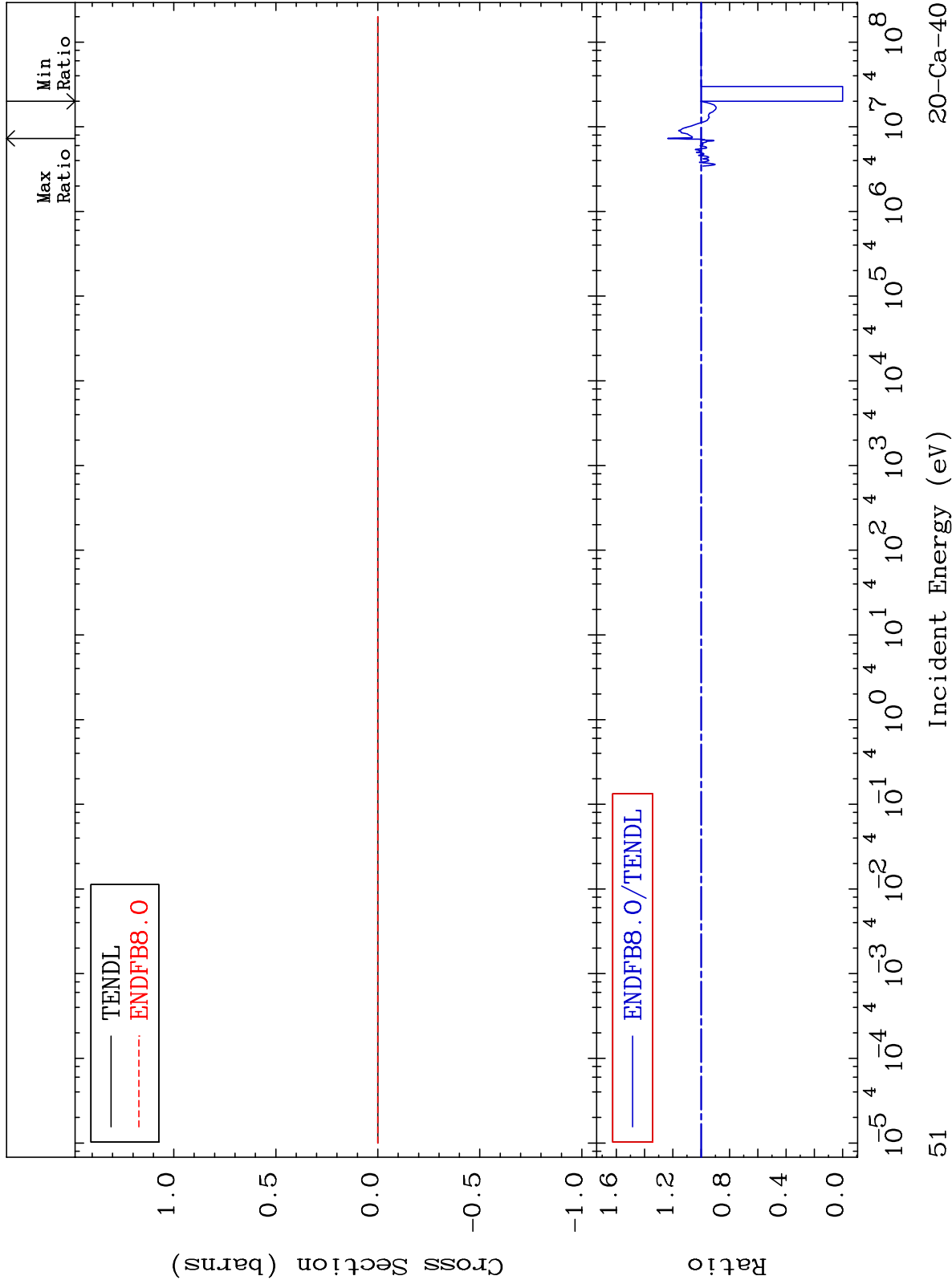
Incident Energy (eV)

20-Ca-40

MAT 2025

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

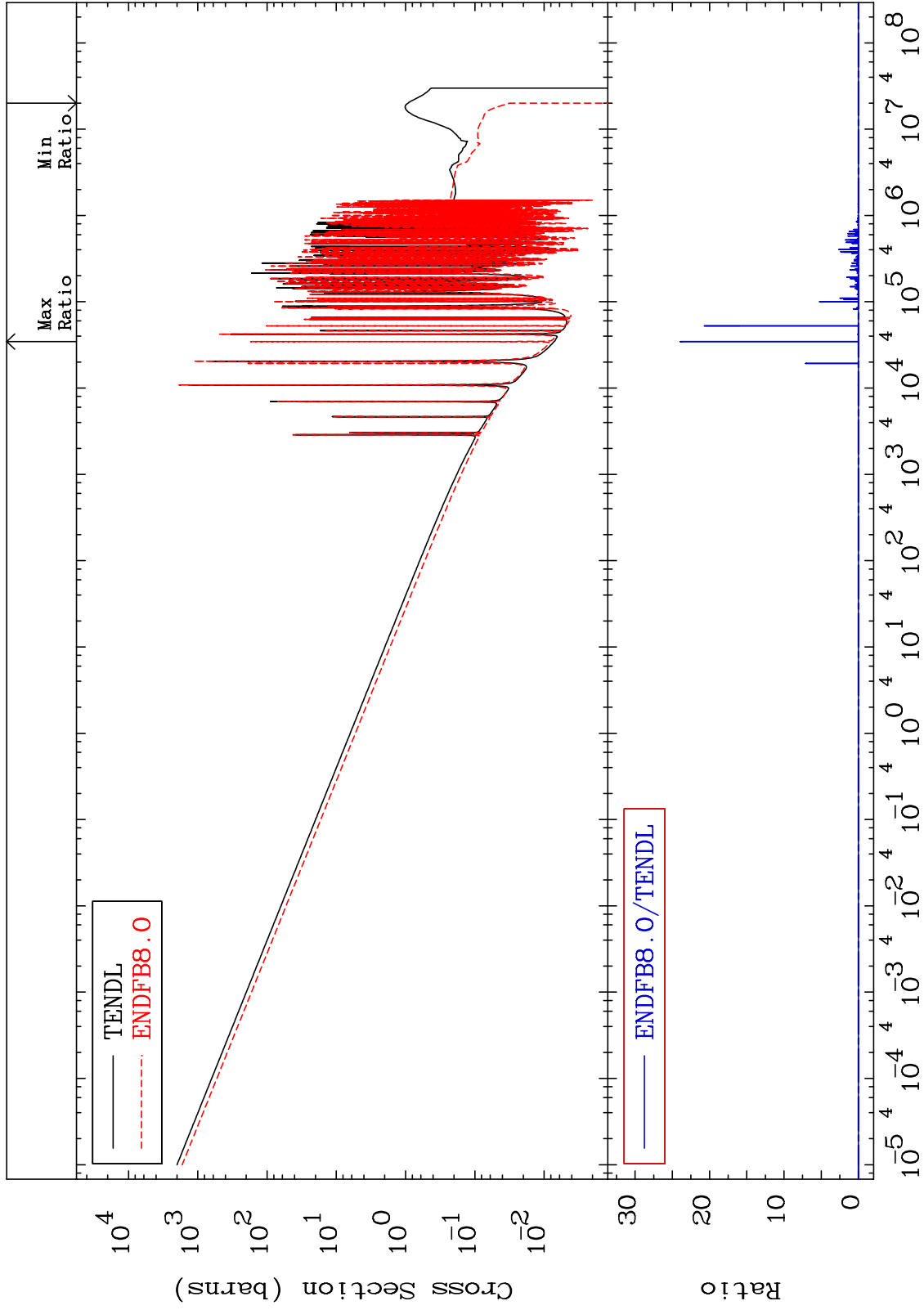
20-Ca-40  
-100.0 To 23.79 %



MAT 2025

Kerma capture (mt102)  
Cross Section

20-Ca-40  
-100.0 To 9999. %



52

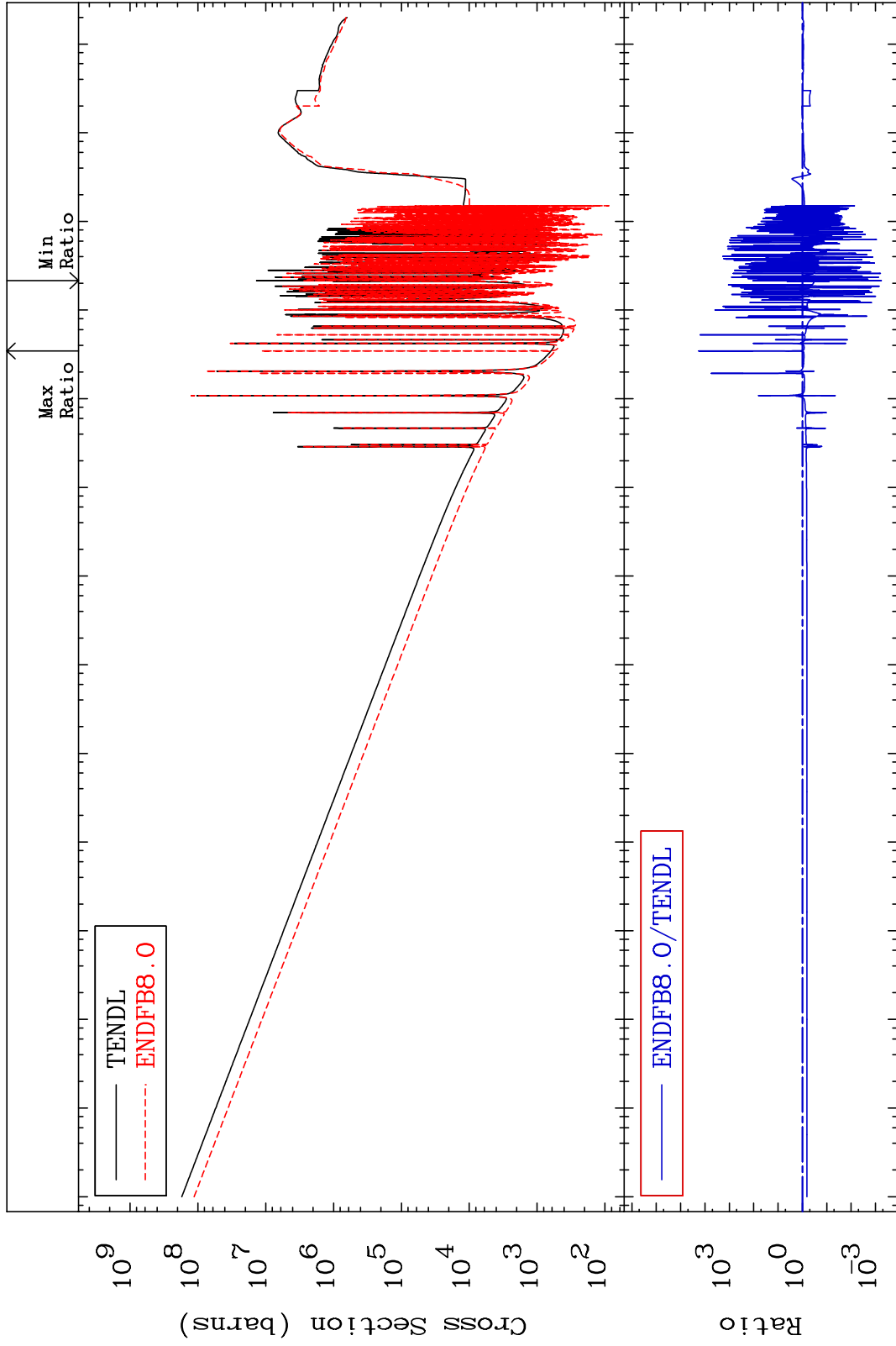
Incident Energy (eV)

20-Ca-40

MAT 2025

Total photon (eV-barns)  
Cross Section

20-Ca-40  
-99.94 To 9999. %



53

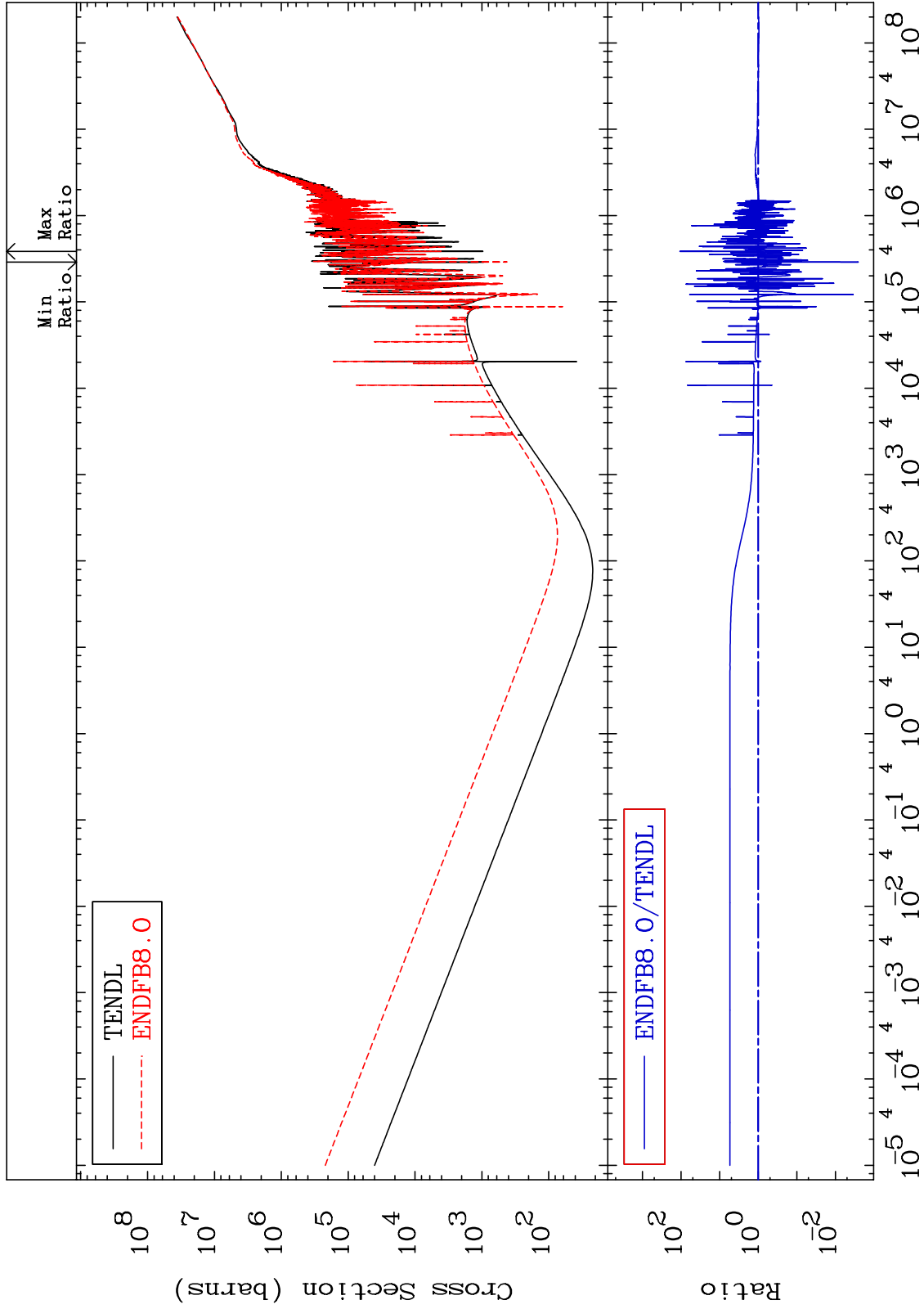
Incident Energy (eV)

20-Ca-40

MAT 2025

Total kinematic kerma (high limit)  
Cross Section

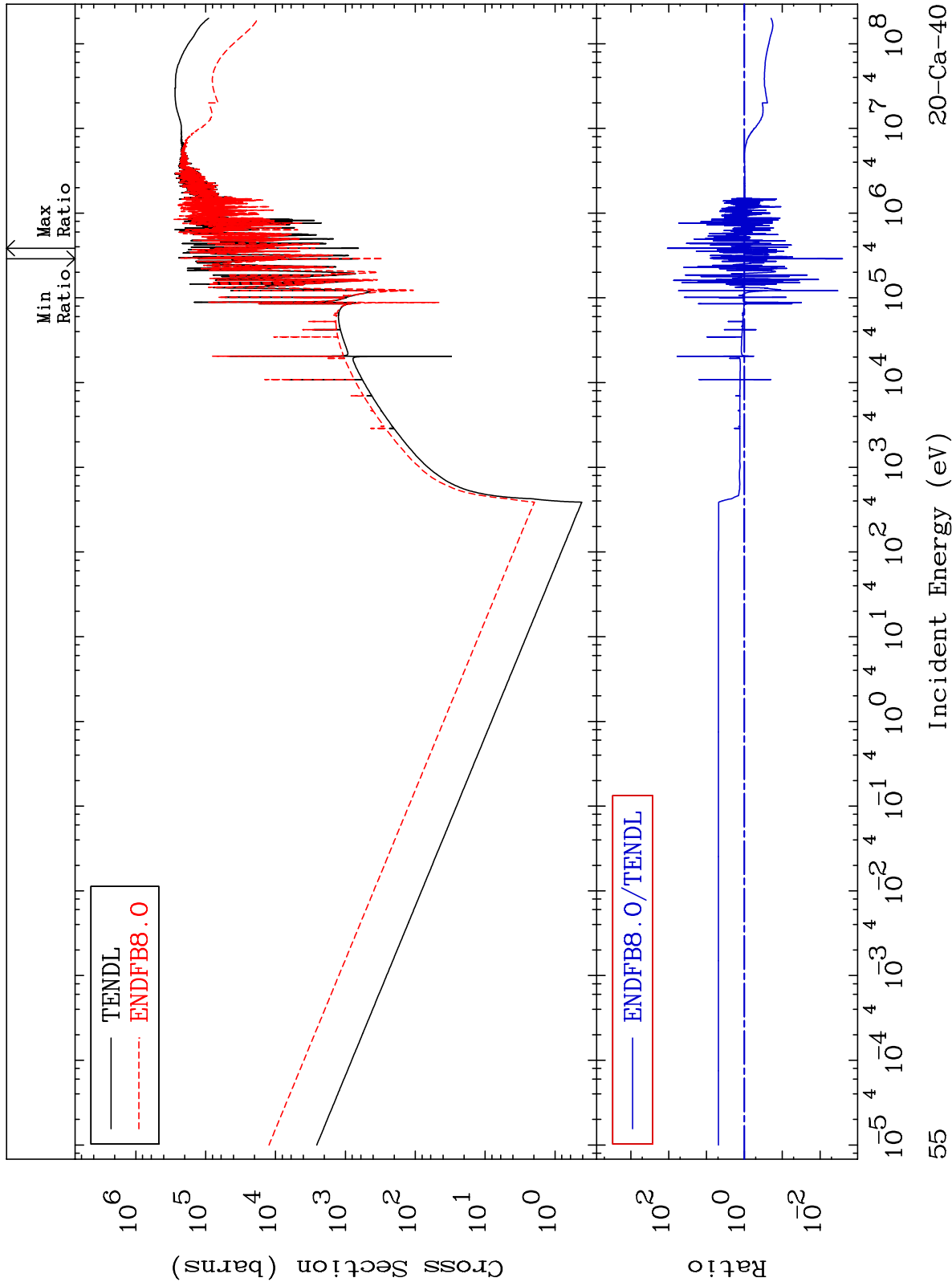
20-Ca-40  
-99.75 To 9999. %



MAT 2025

Dpa total (eV-barns)  
Cross Section

20-Ca-40  
-99.75 To 9999. %

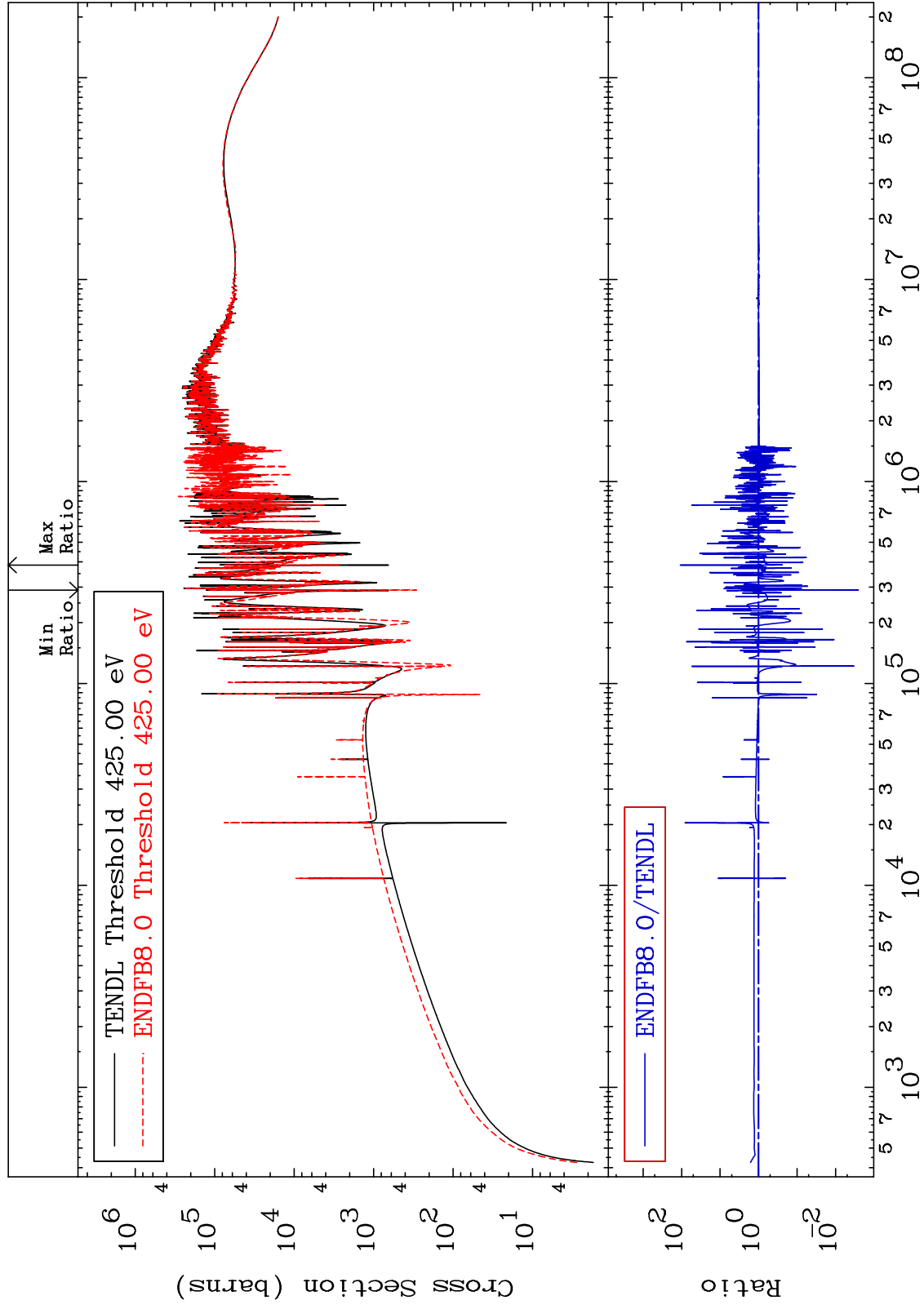




MAT 2025

Dpa elastic (mt2)  
Cross Section

20-Ca-40  
-99.75 To 9999. %



56

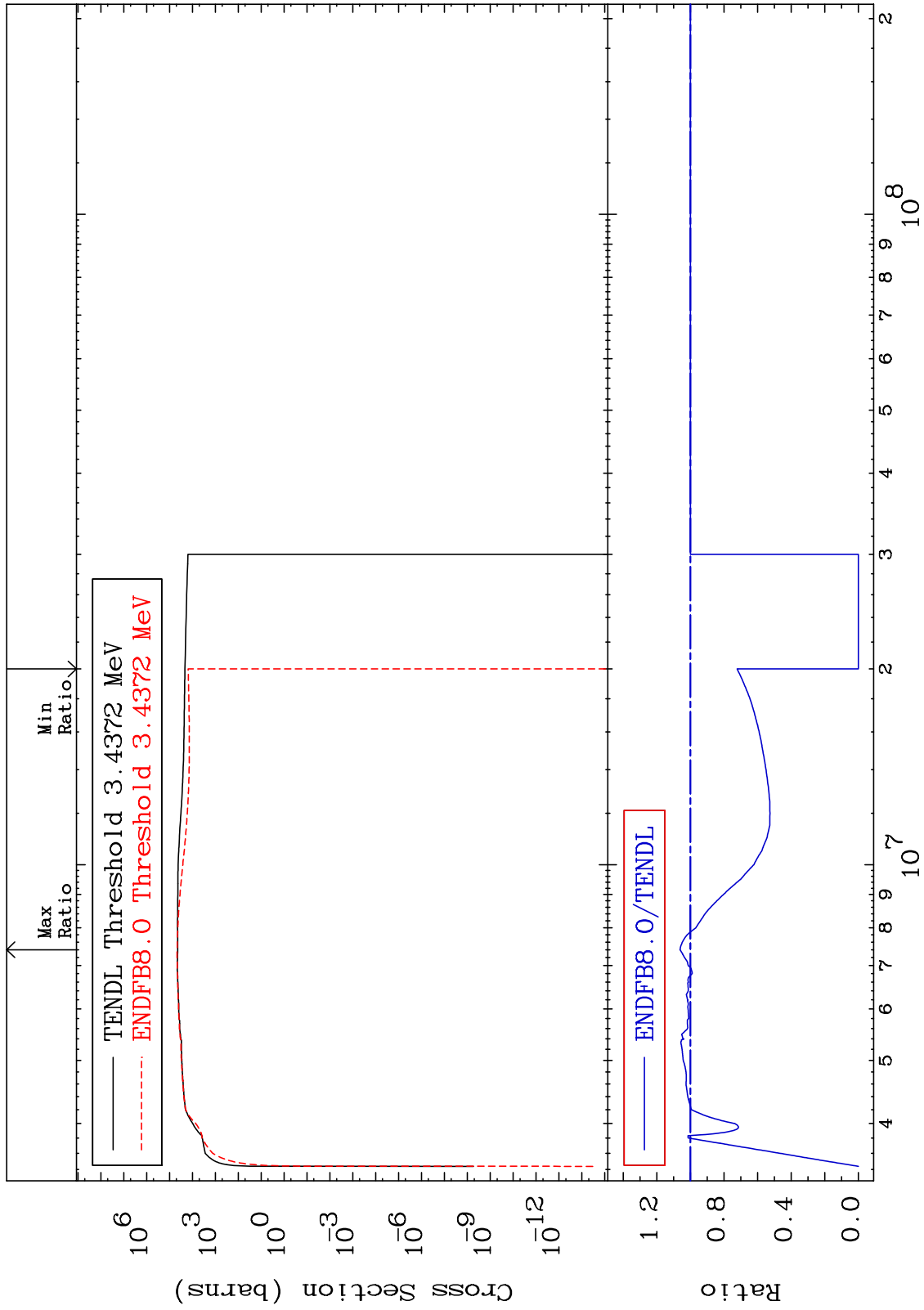
Incident Energy (eV)

20-Ca-40

MAT 2025

Dpa inelastic (mt51-91)  
Cross Section

20-Ca-40  
-100.0 To 6.179 %



MAT 2025

Dpa disappearance (mt102 -120)  
Cross Section

20-Ca-40  
-100.0 To 9999. %

