

Program Complot  
(Version 2018-1)

by

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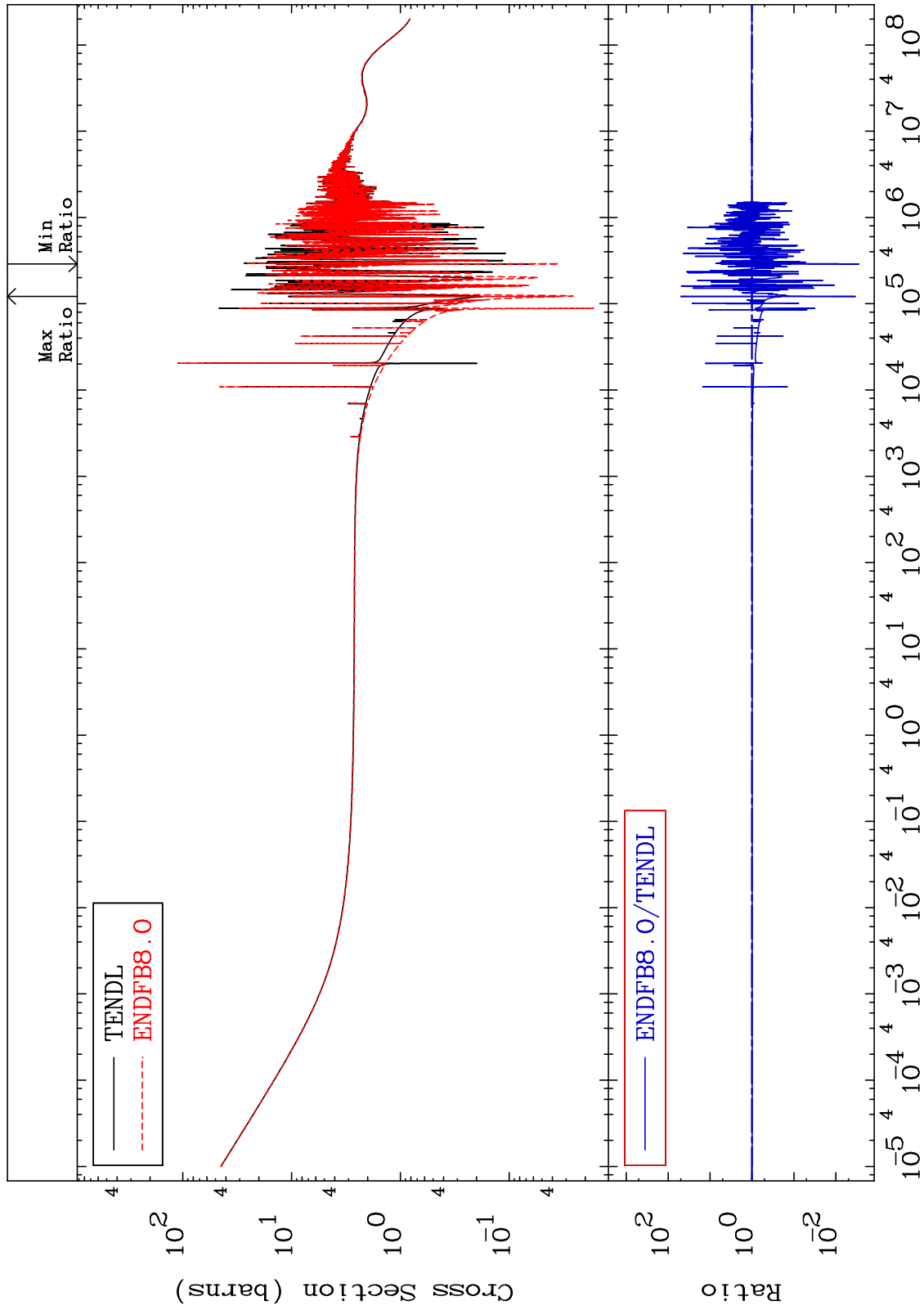
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 2025

Total  
Cross Section

20-Ca-40  
-99.72 To 4926. %



Incident Energy (eV)

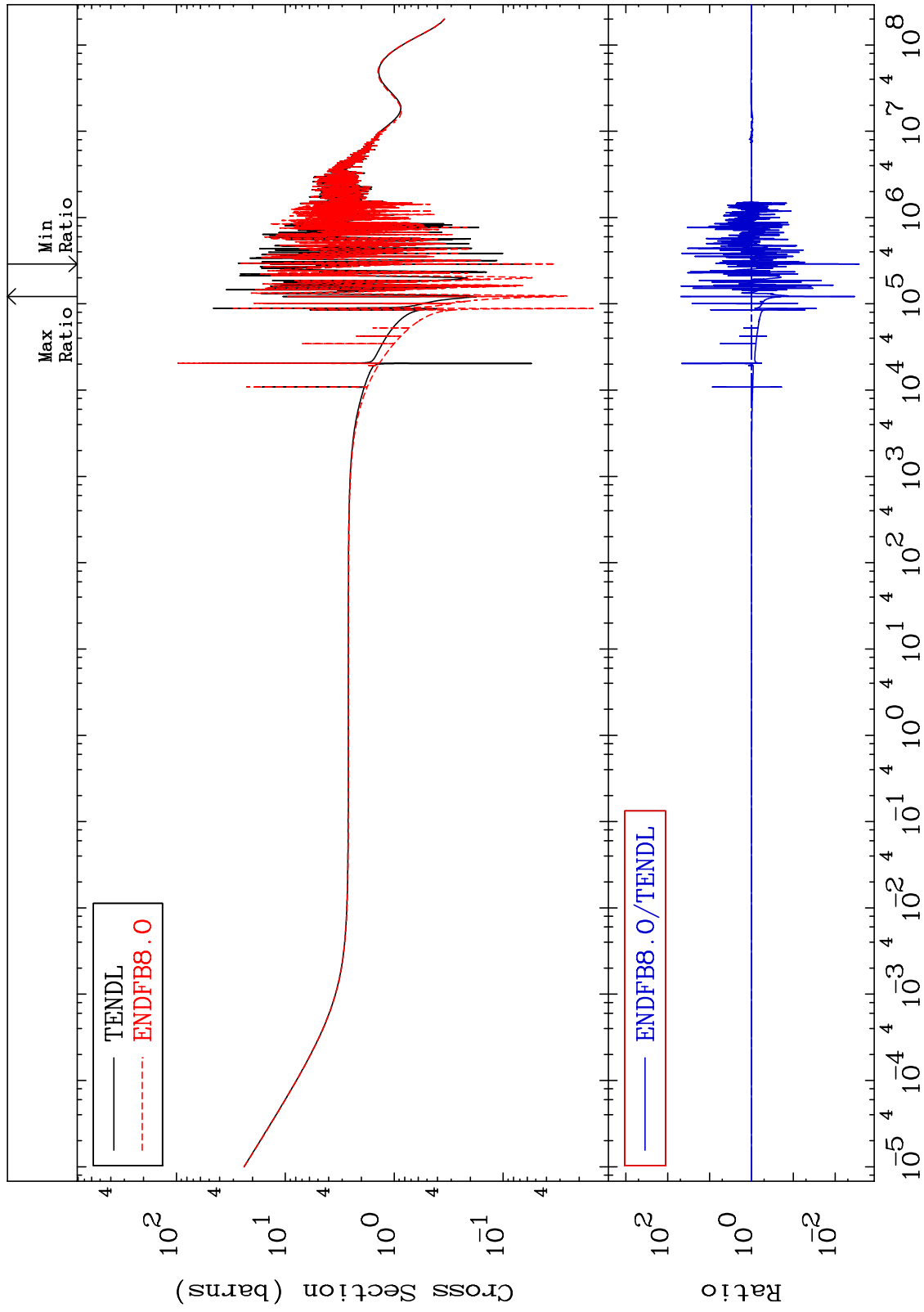
20-Ca-40

1

MAT 2025

Elastic  
Cross Section

20-Ca-40  
-99.73 To 4814. %

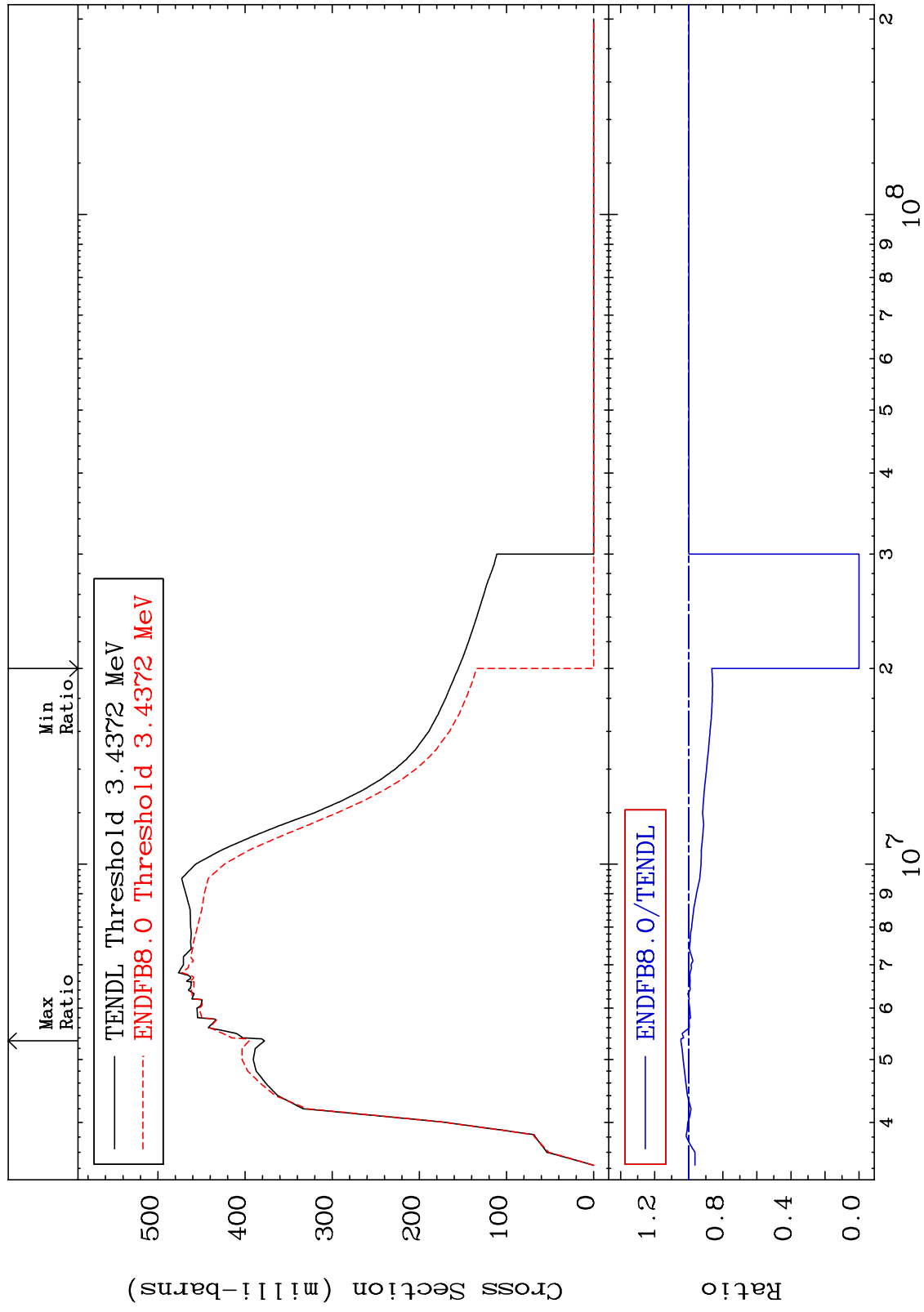


2

Incident Energy (eV)

20-Ca-40

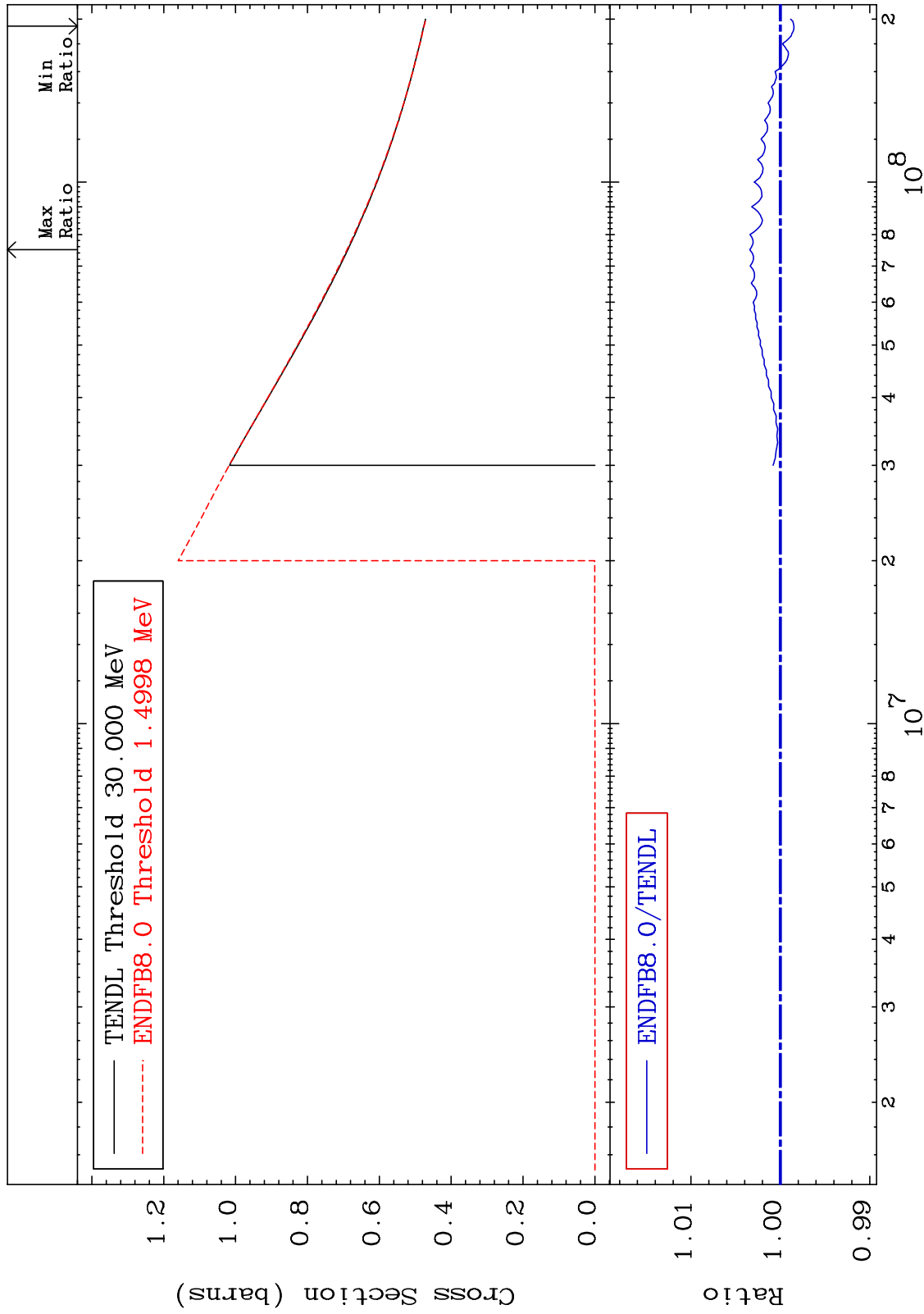
MAT 2025 Inelastic Cross Section 20-Ca-40 -100.0 To 4.634 %



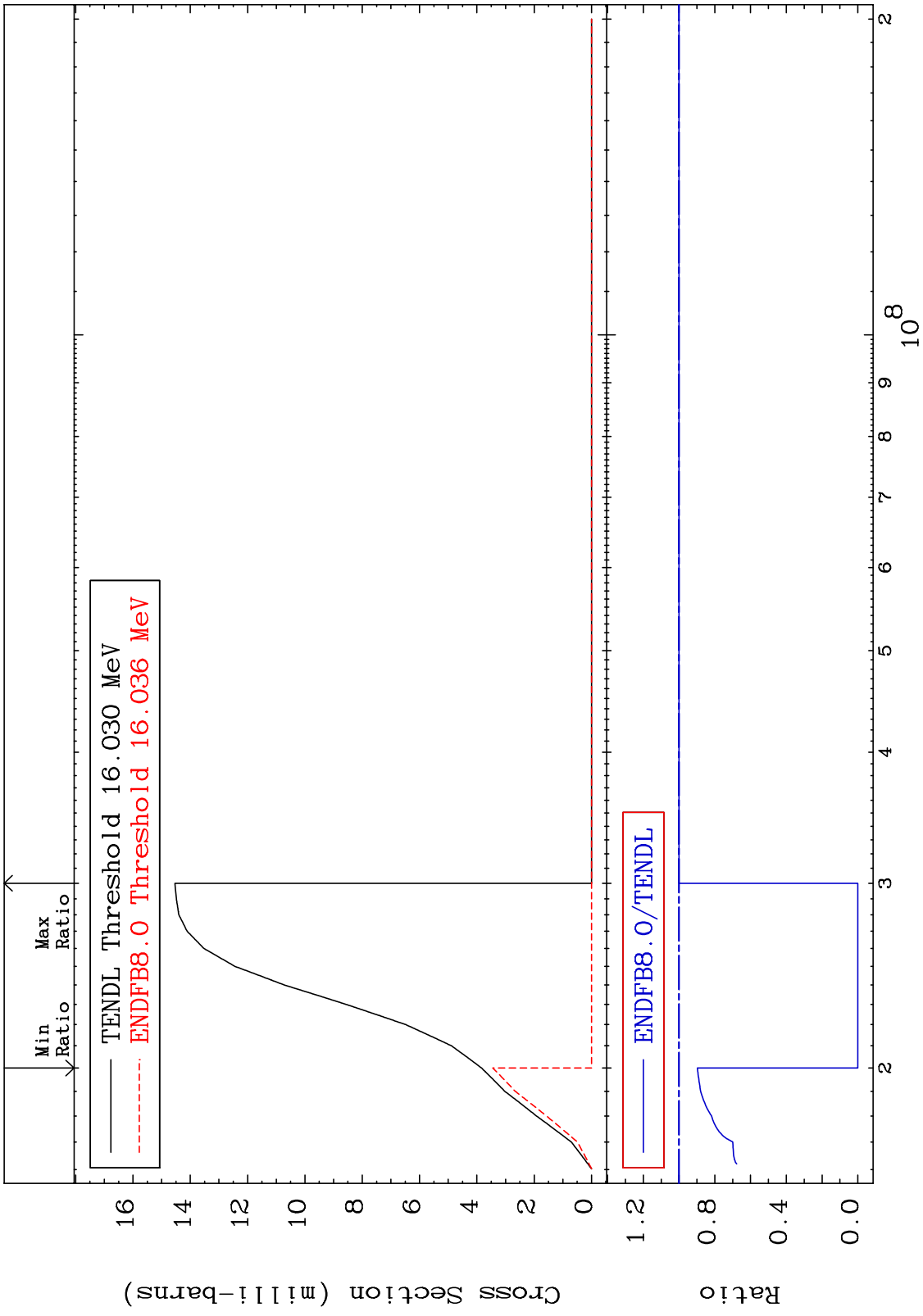
MAT 2025

(n, remainder)  
Cross Section

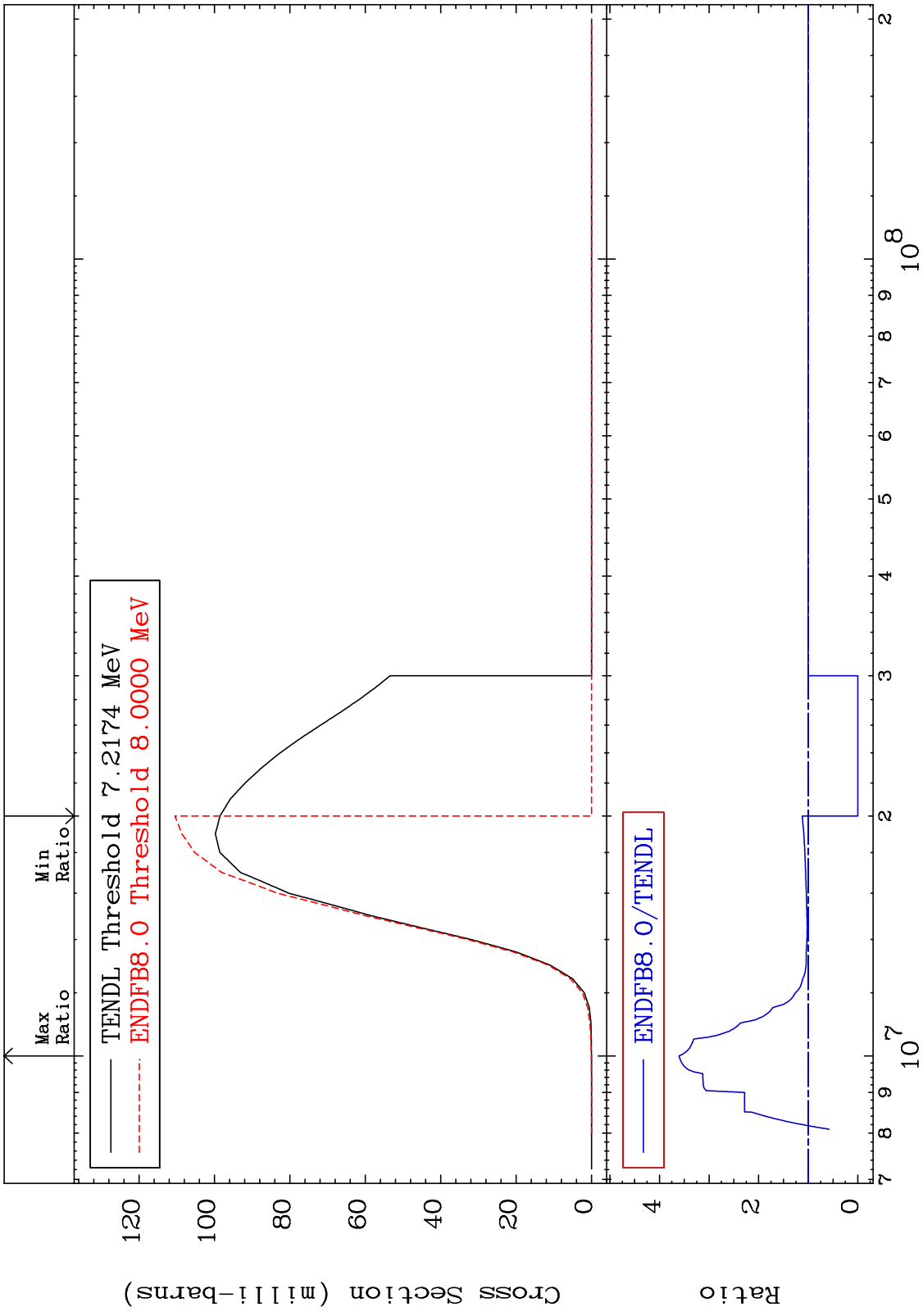
20-Ca-40  
-0.153 To 0.342 %



MAT 2025 (n,2n) Cross Section 20-Ca-40 -100.0 To 0.000 %

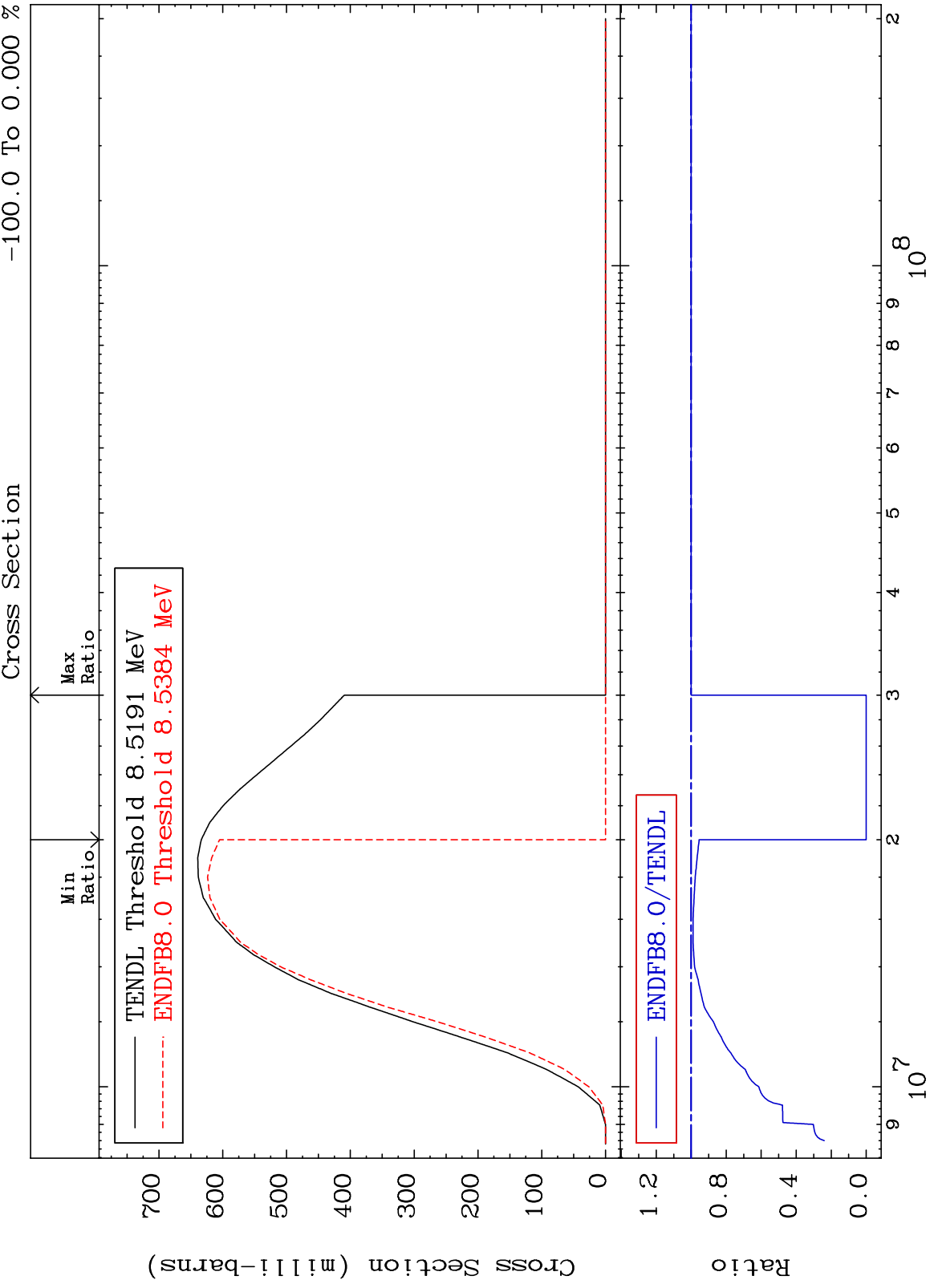


MAT 2025  $(n, n') \alpha$  20-Ca-40  
 Cross Section -100.0 To 260.5 %



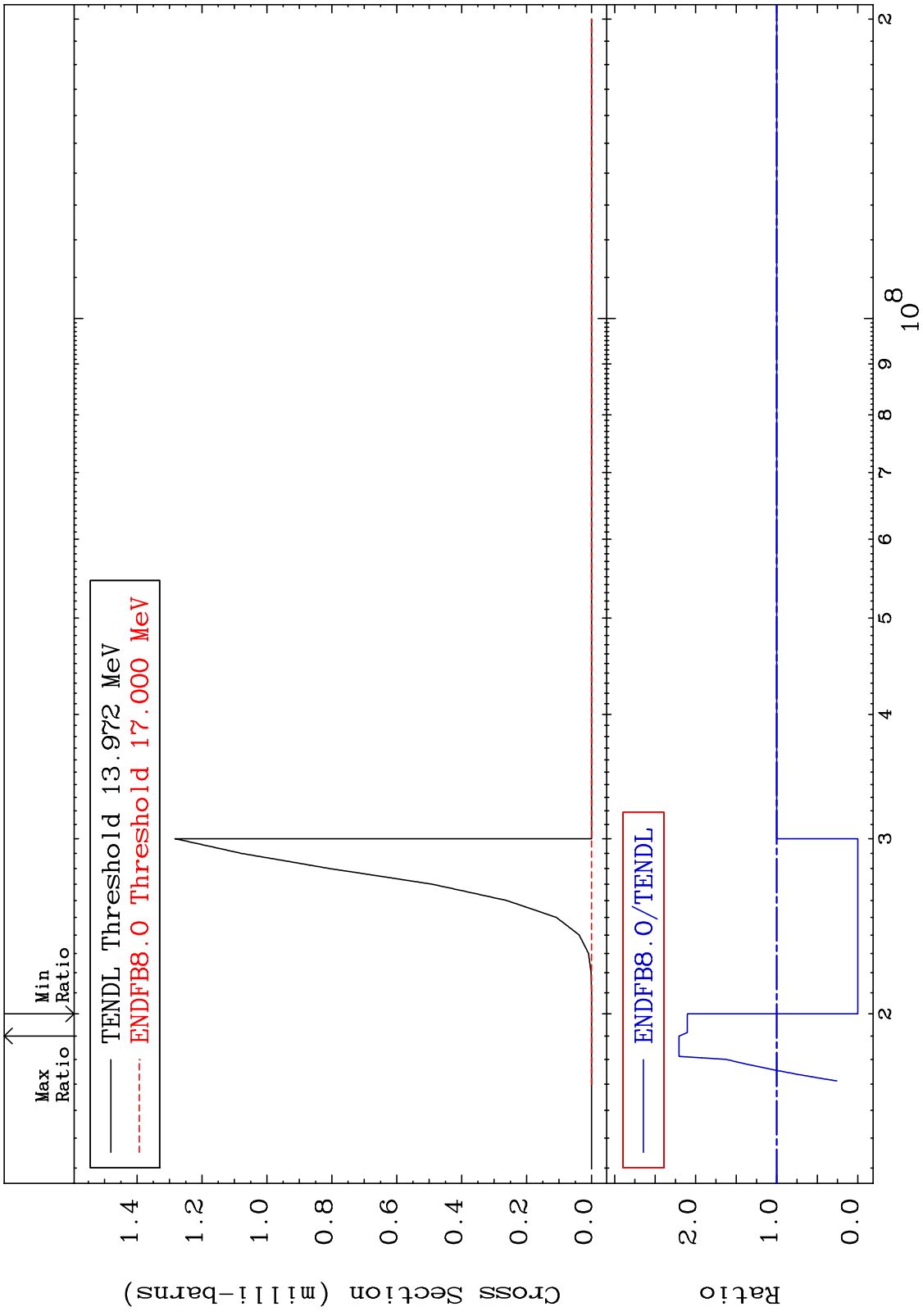
6 Incident Energy (eV) 20-Ca-40

MAT 2025  $(n, n')$  p 20-Ca-40 -100.0 To 0.000 %

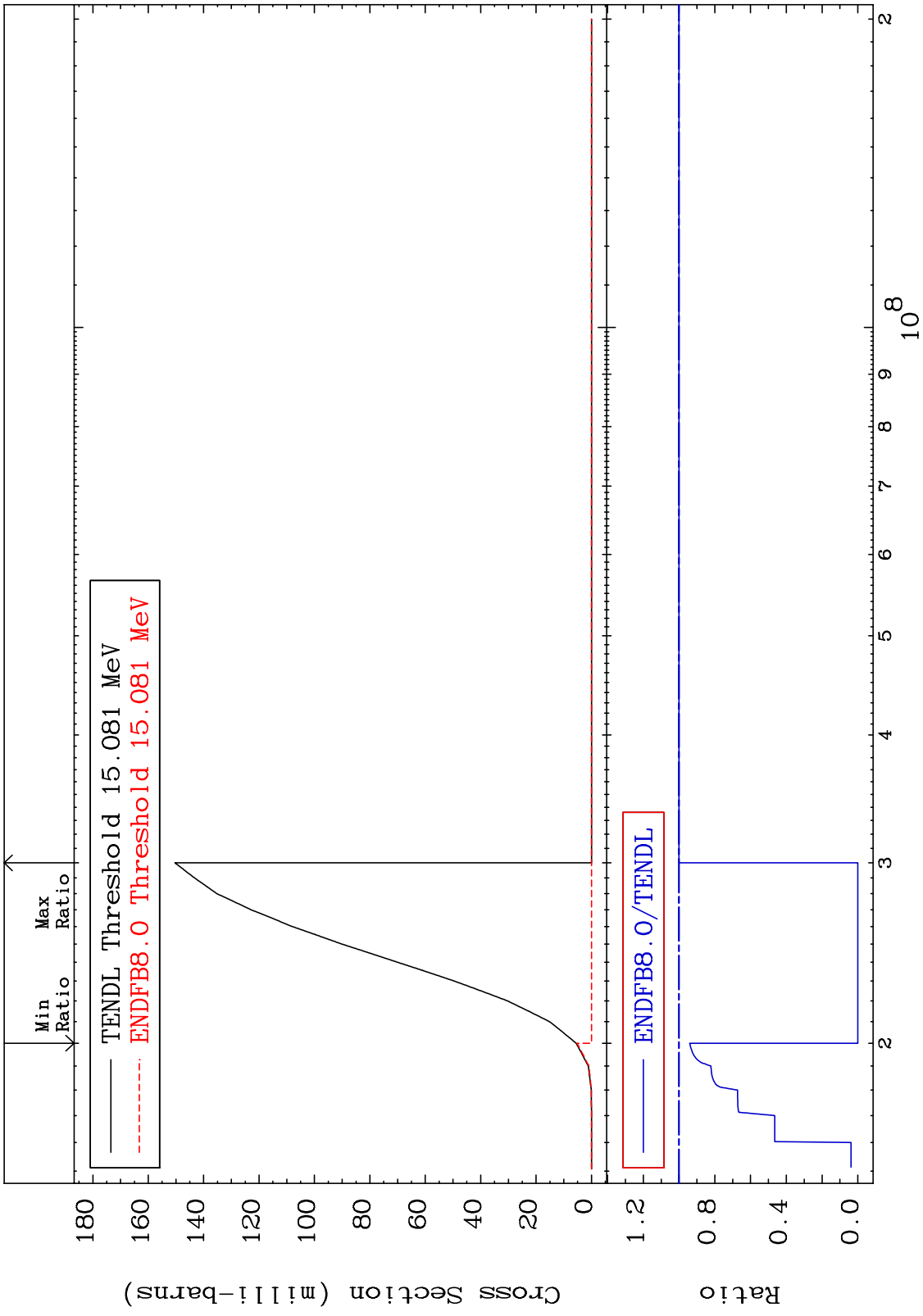




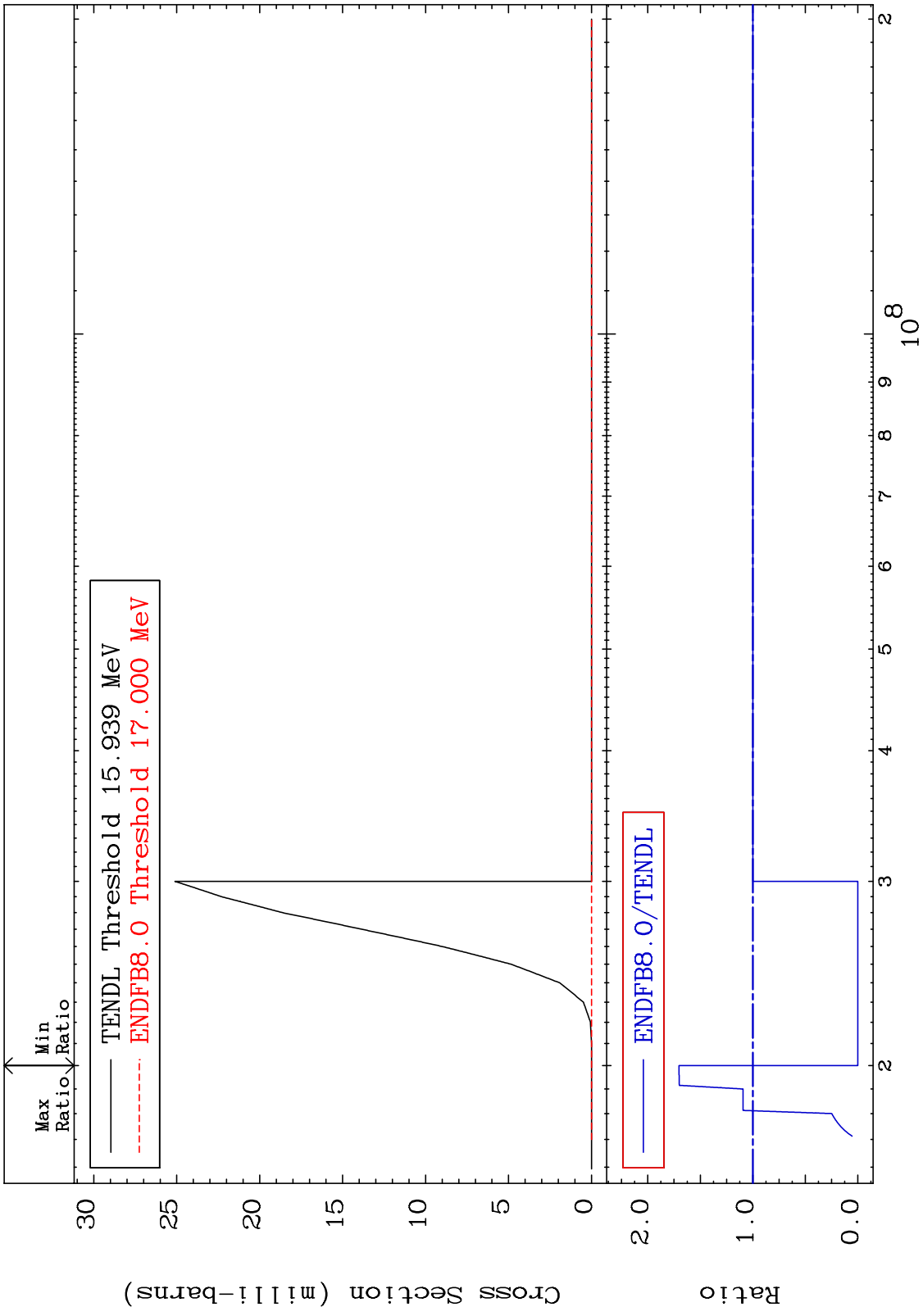
MAT 2025 (n,n') 2α Cross Section 20-Ca-40 -100.0 To 120.5 %



MAT 2025 (n,2n) p 20-Ca-40  
 Cross Section -100.0 To 0.000 %

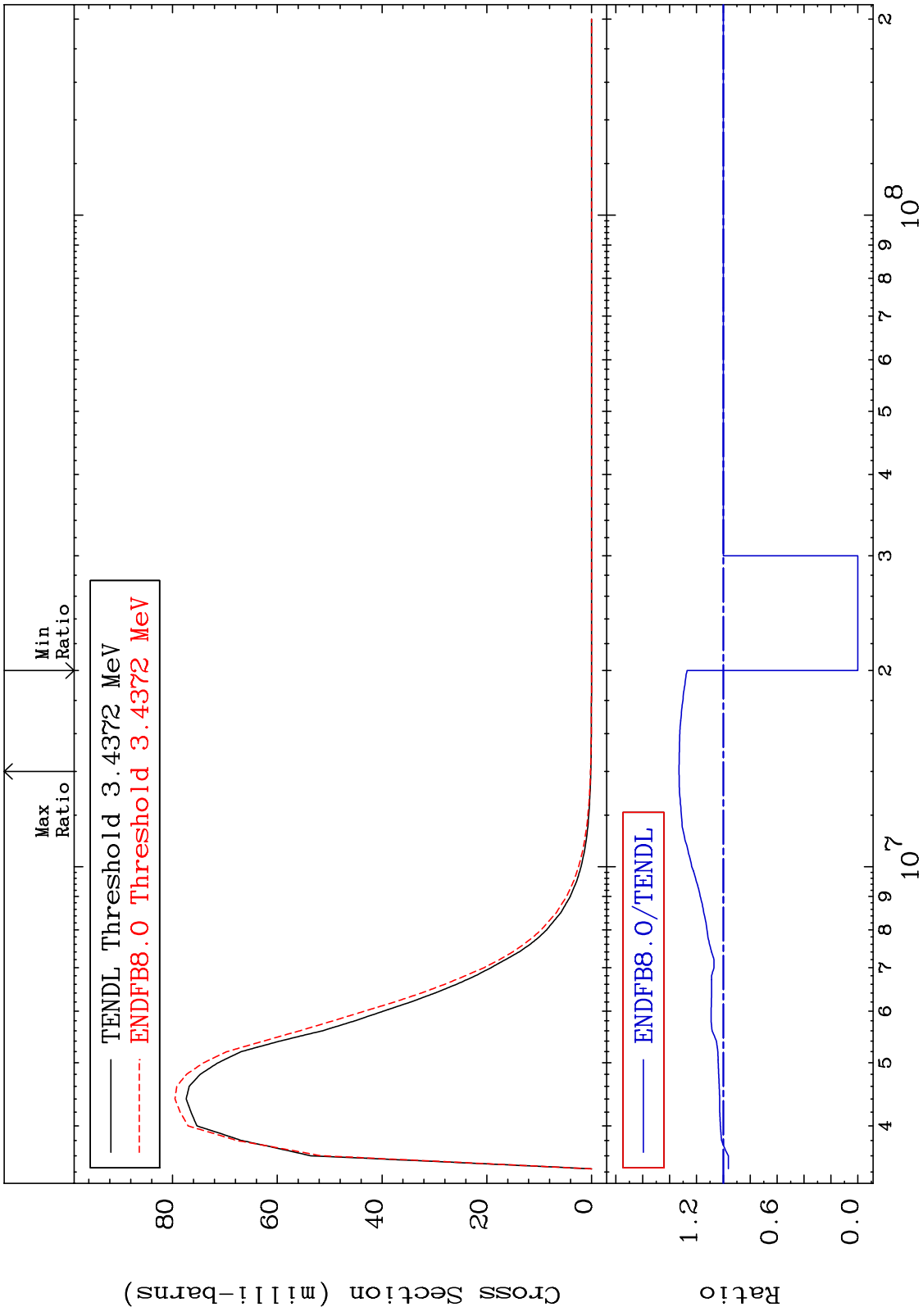


MAT 2025 (n,n') p α Cross Section 20-Ca-40 -100.0 To 70.25 %

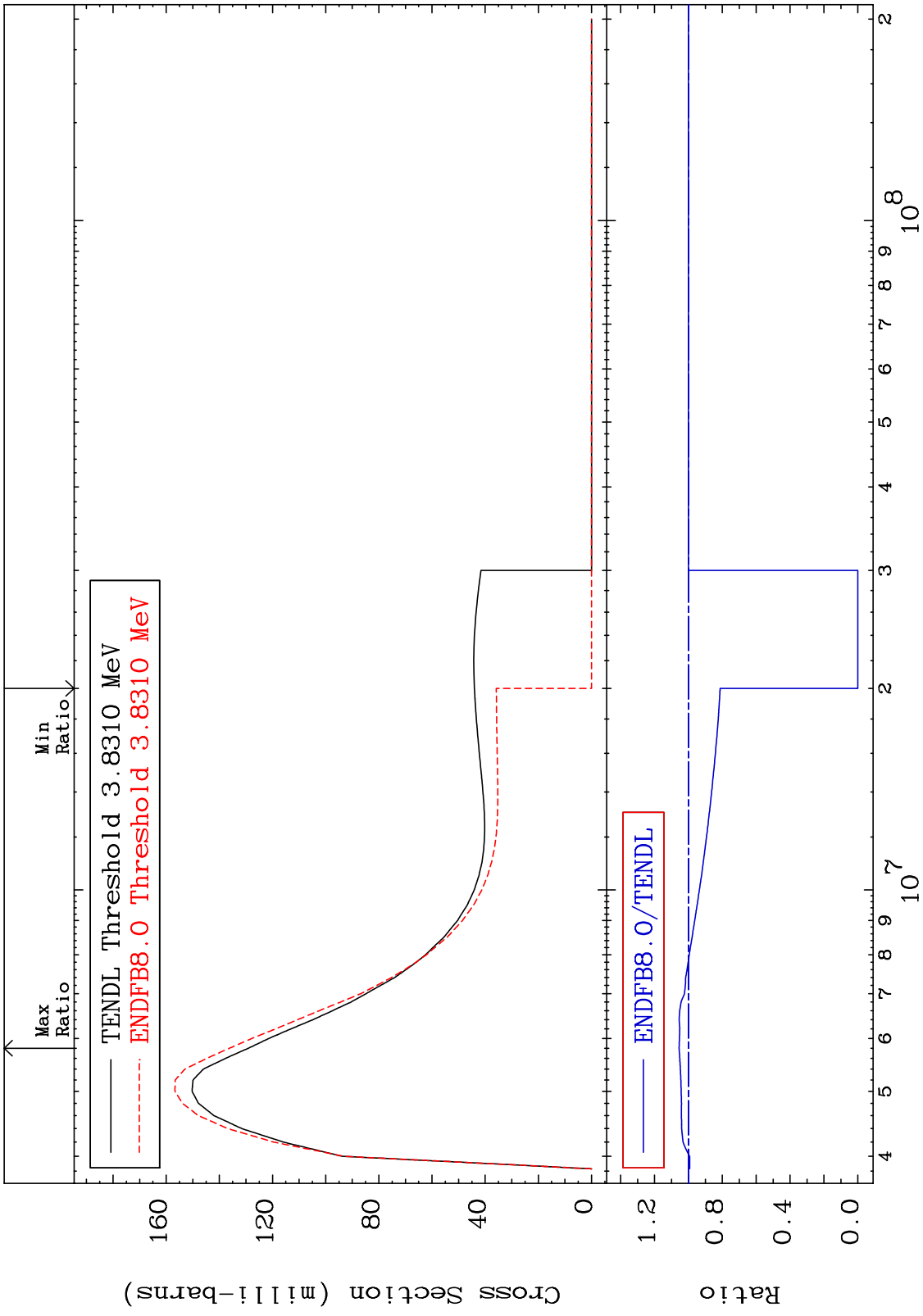


10 Incident Energy (eV) 20-Ca-40

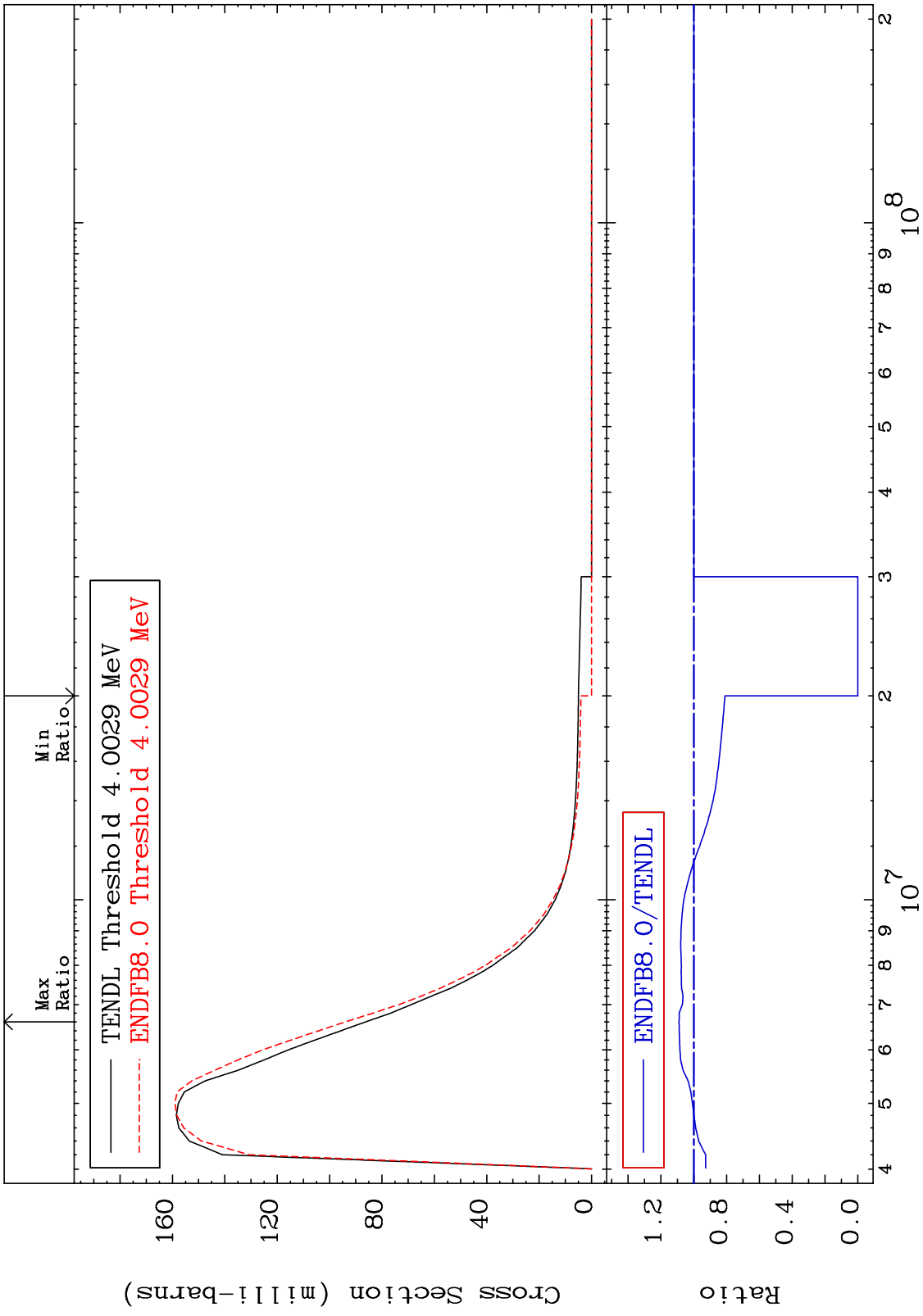
MAT 2025 MT= 51 (n,n') Level Cross Section -100.0 To 32.97 % 20-Ca-40



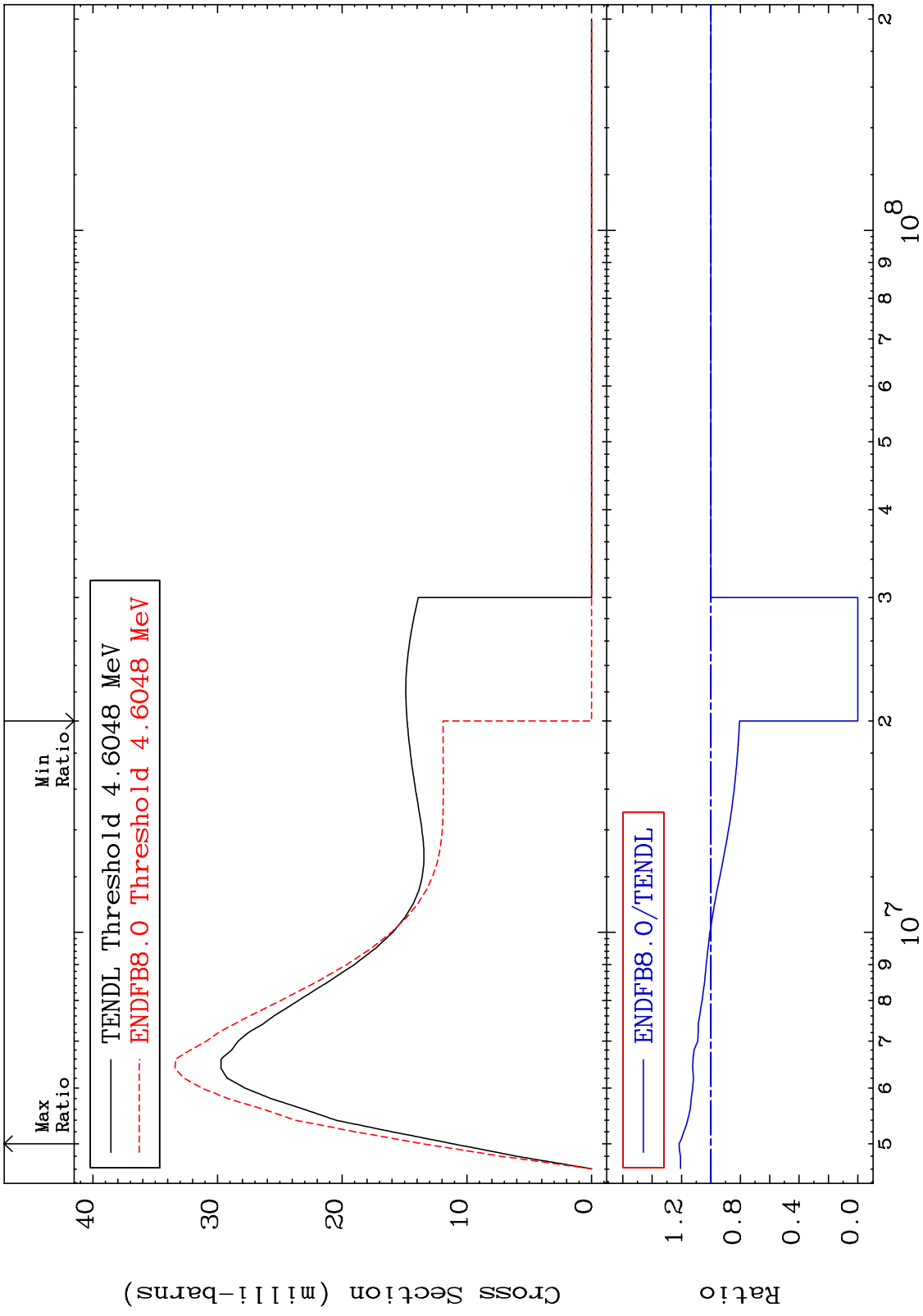
MAT 2025 MT= 52 (n,n') Level Cross Section -100.0 To 5.531 % 20-Ca-40



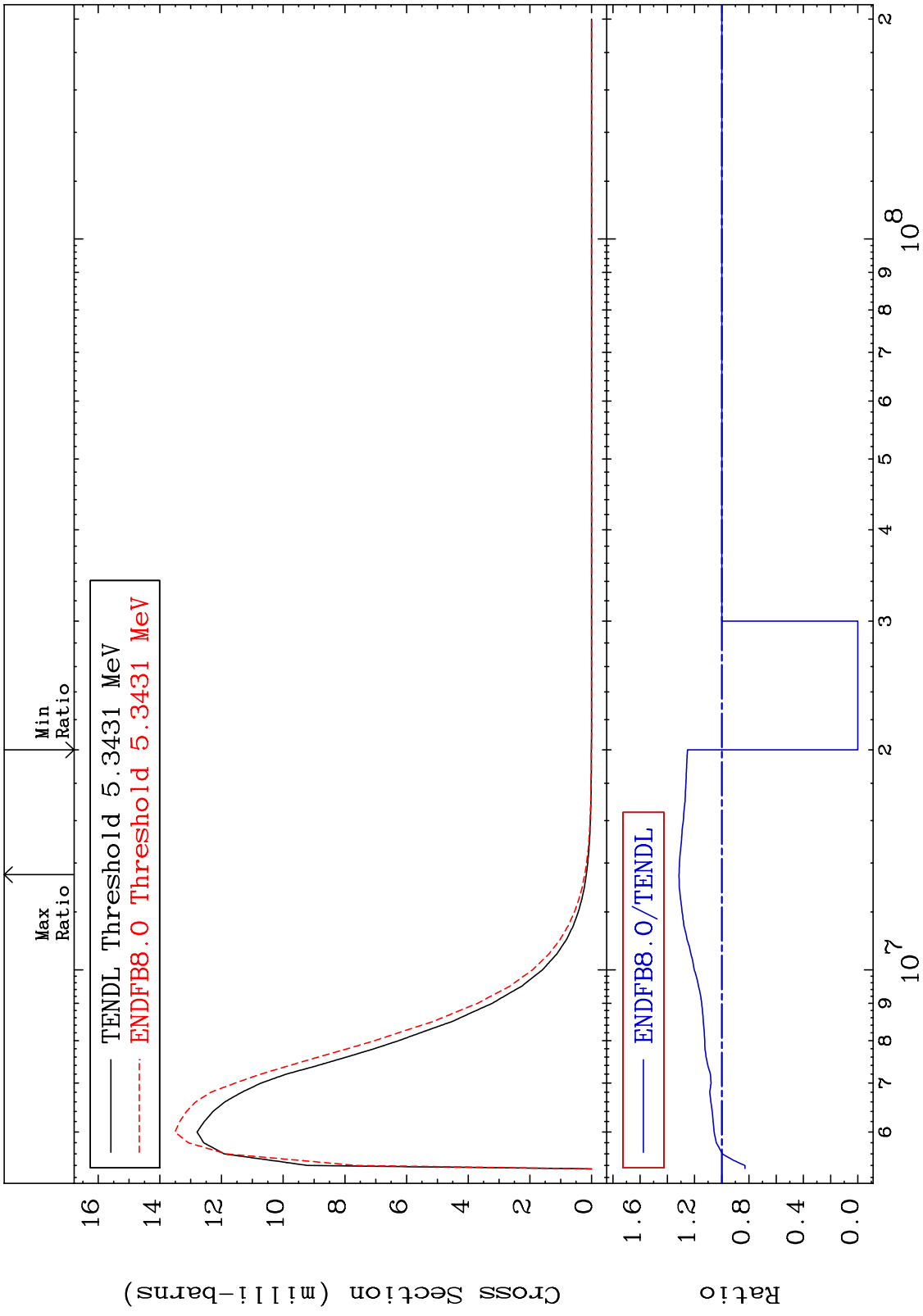
MAT 2025 MT= 53 (n,n') Level Cross Section -100.0 To 8.962 % 20-Ca-40



MAT 2025 MT= 54 (n,n') Level Cross Section -100.0 To 21.71 % 20-Ca-40

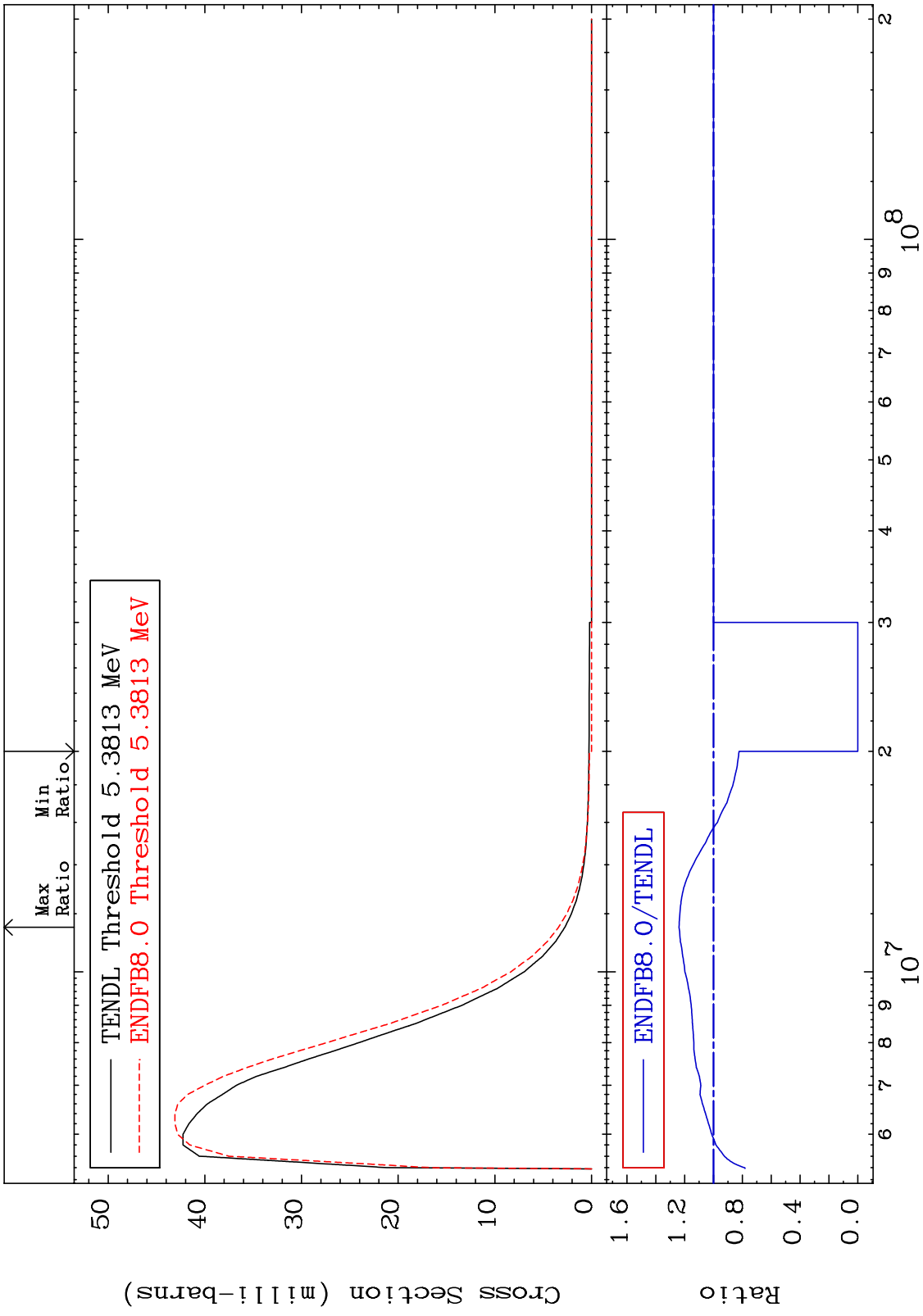


MAT 2025 MT= 55 (n,n') Level Cross Section -100.0 To 31.37 % 20-Ca-40

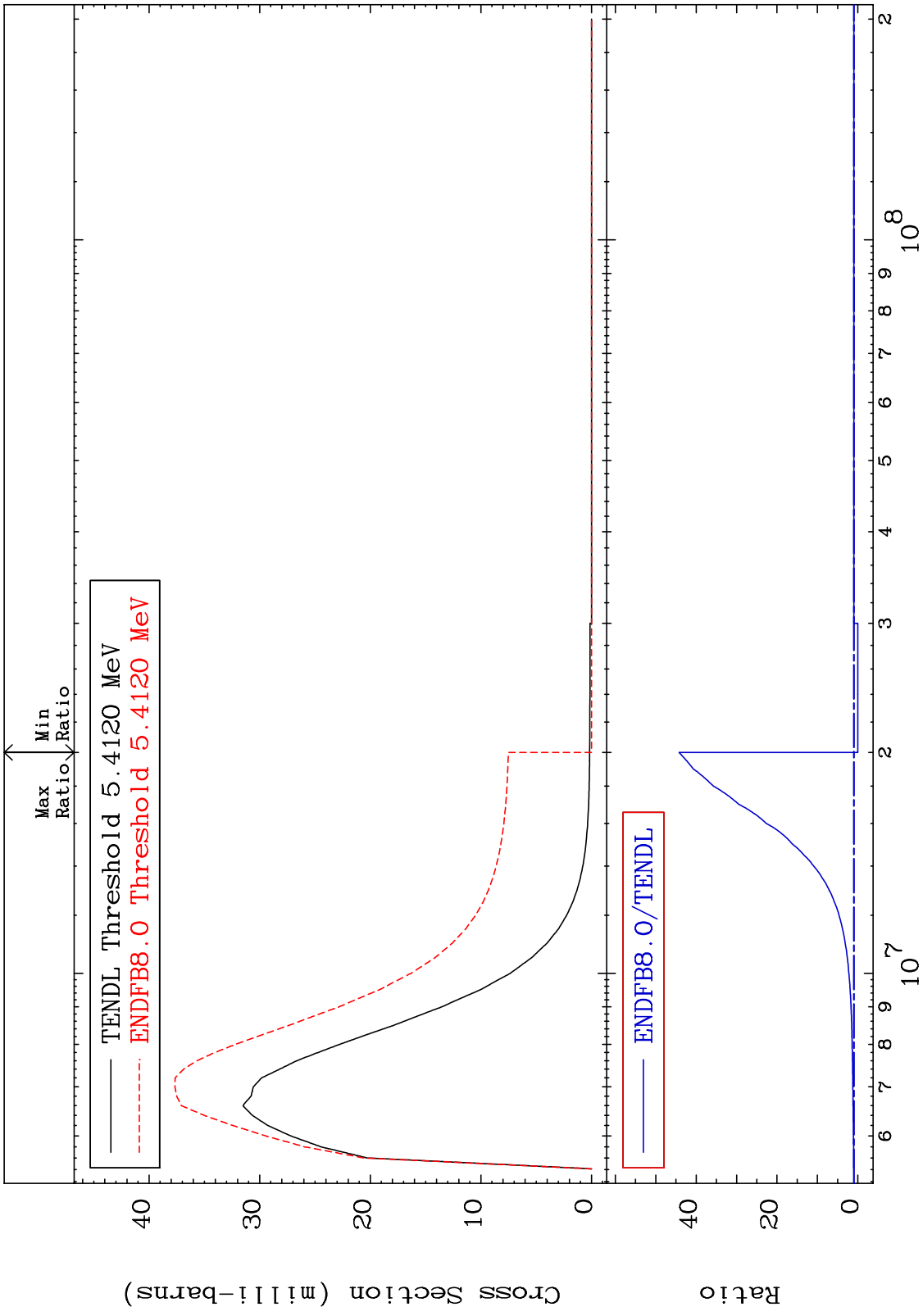




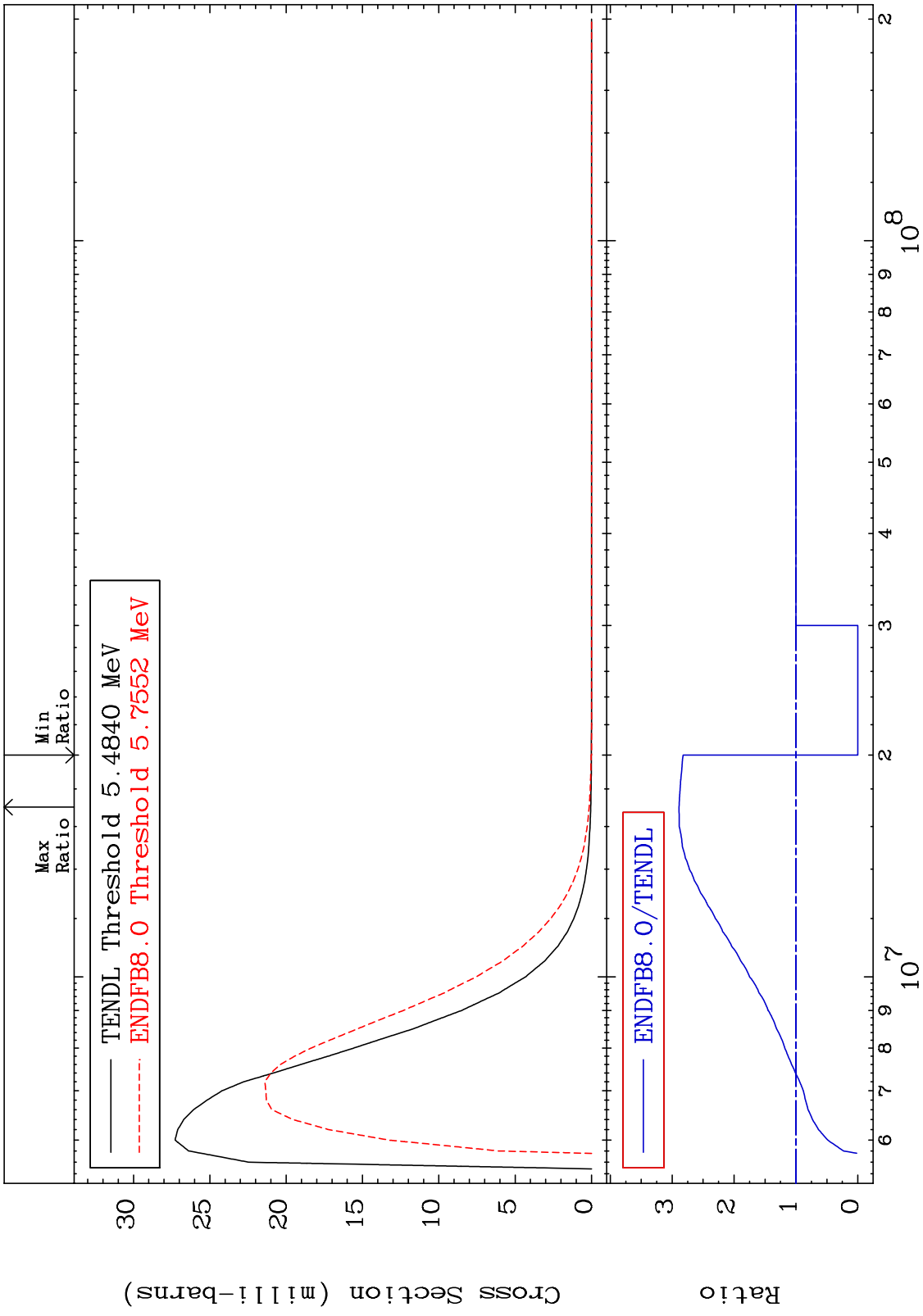
MAT 2025 MT= 56 (n,n') Level Cross Section -100.0 To 23.94 % 20-Ca-40



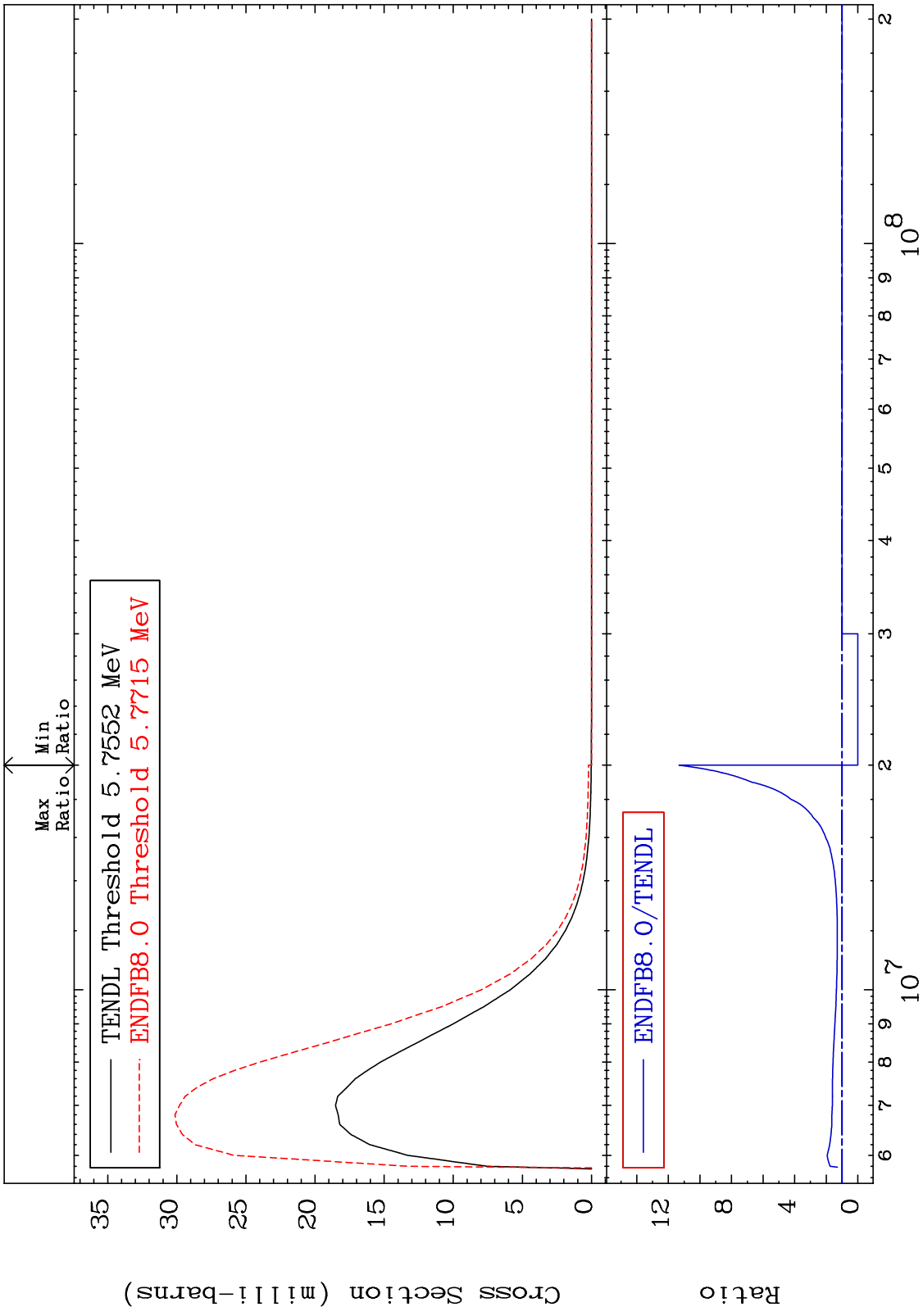
MAT 2025 MT= 57 (n,n') Level Cross Section -100.0 To 4324. % 20-Ca-40



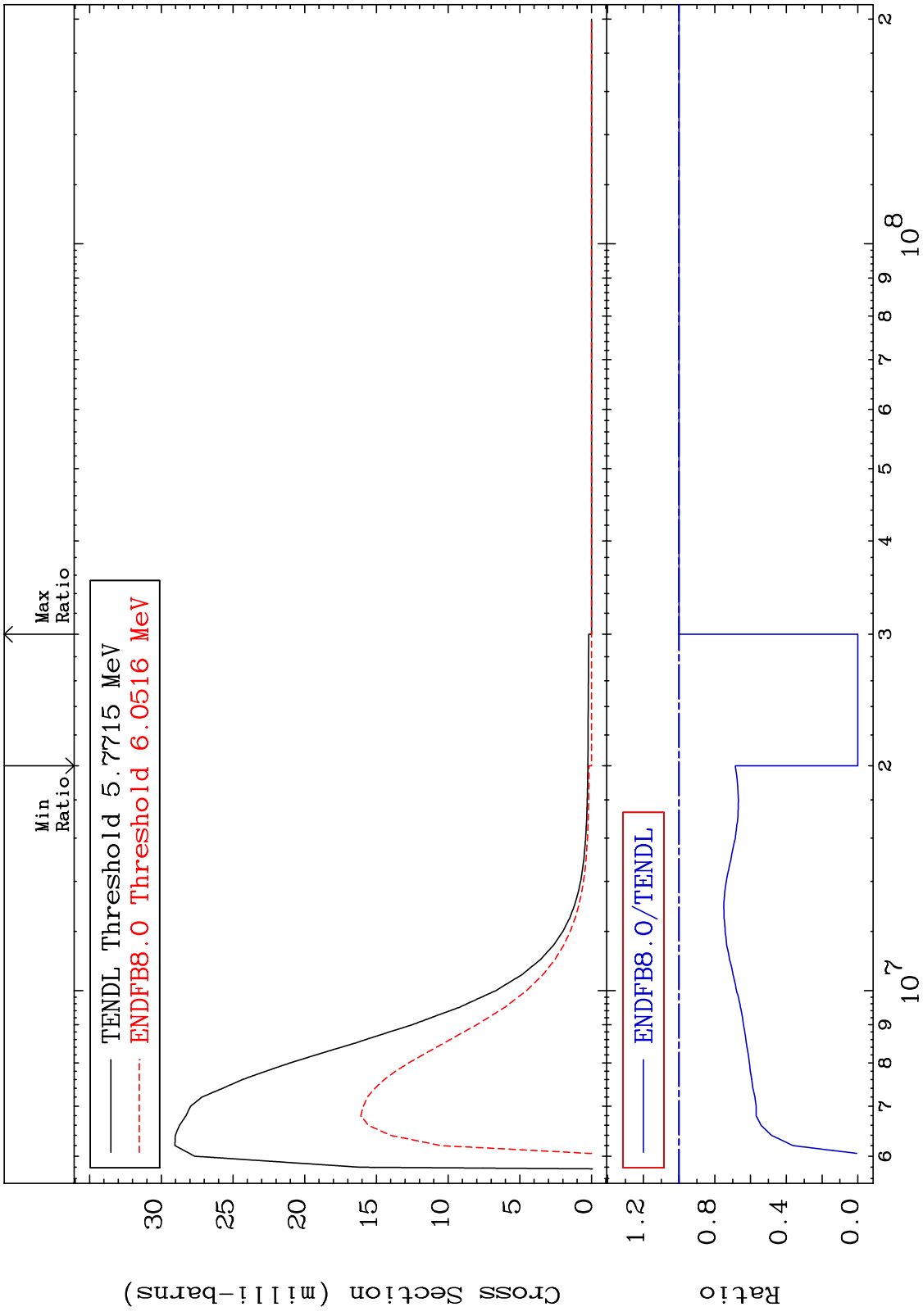
MAT 2025 MT= 58 (n,n') Level Cross Section -100.0 To 188.9 % 20-Ca-40



MAT 2025 MT= 59 (n,n') Level Cross Section -100.0 To 1032. % 20-Ca-40

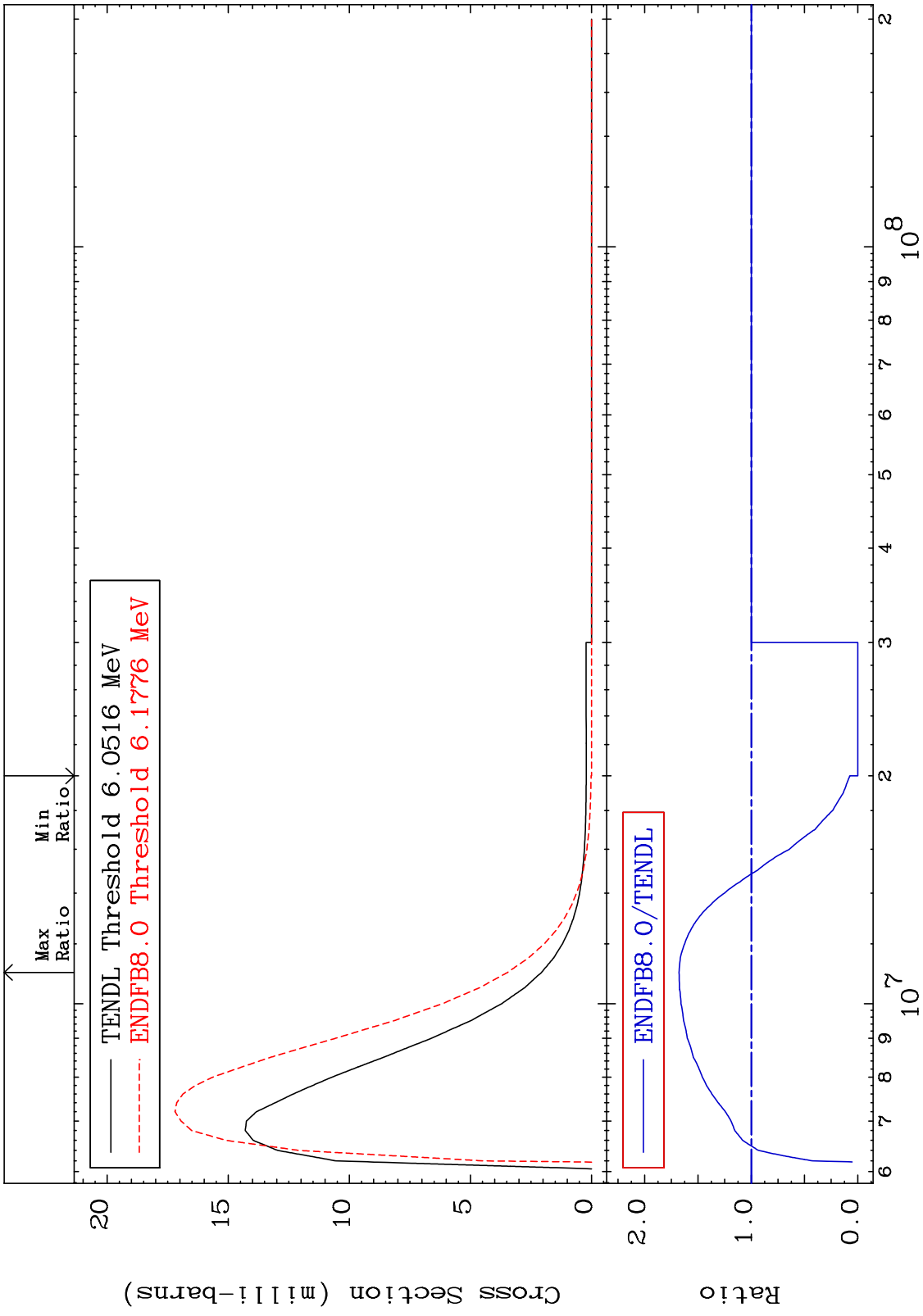


MAT 2025 MT= 60 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-40

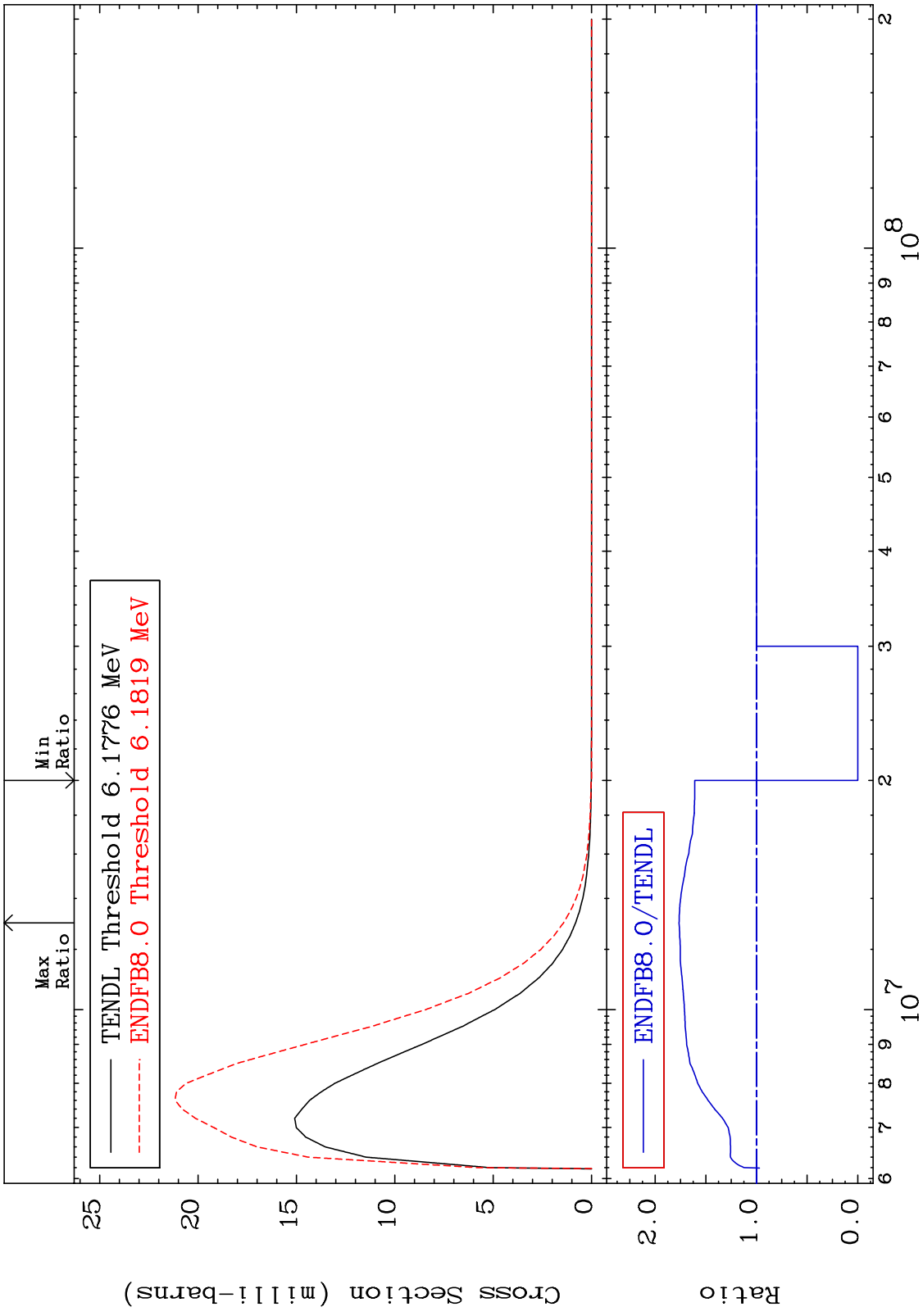


20 Incident Energy (eV) 20-Ca-40

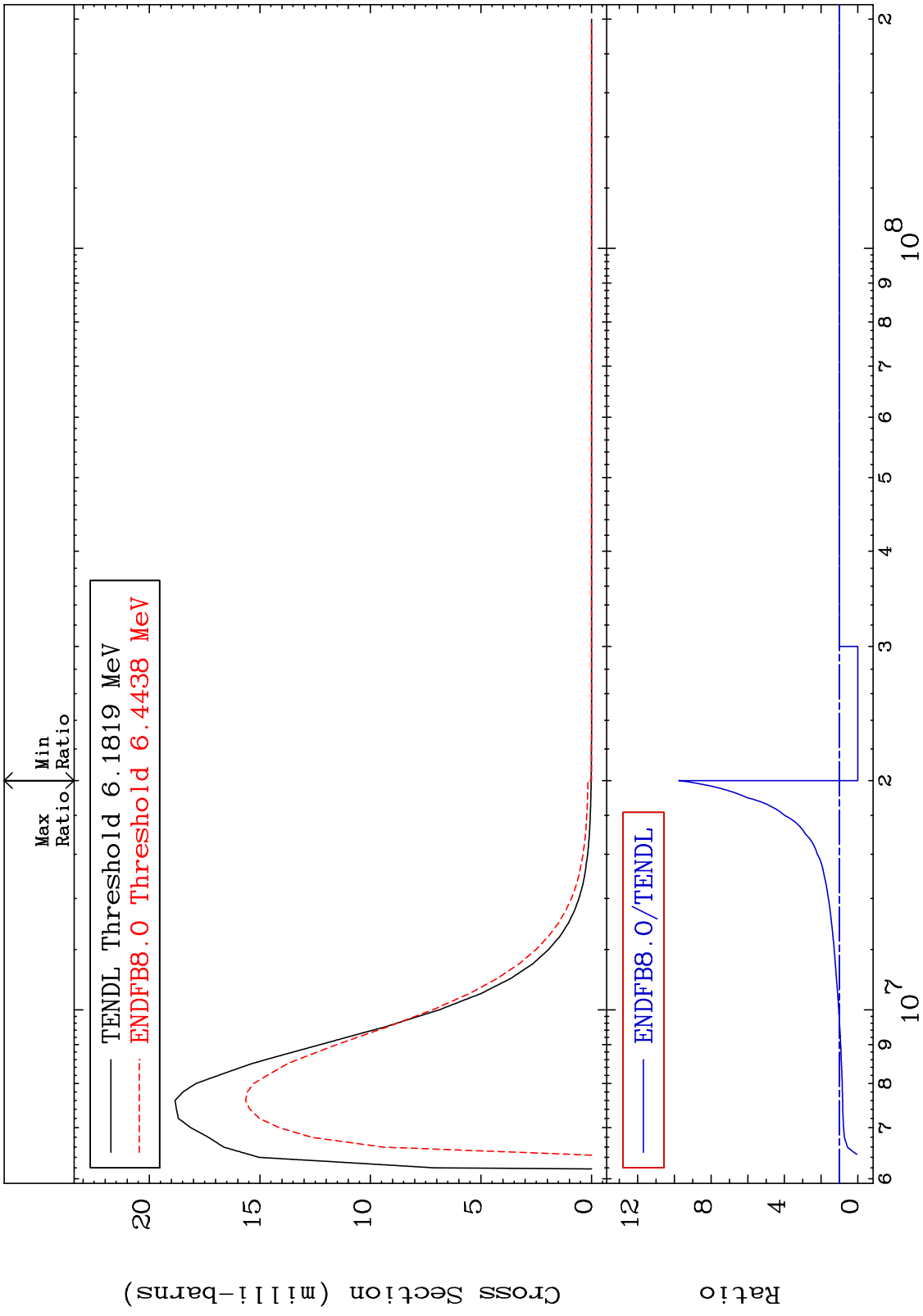
MAT 2025 MT= 61 (n,n') Level Cross Section -100.0 To 67.78 % 20-Ca-40



MAT 2025 MT= 62 (n,n') Level Cross Section -100.0 To 76.39 % 20-Ca-40

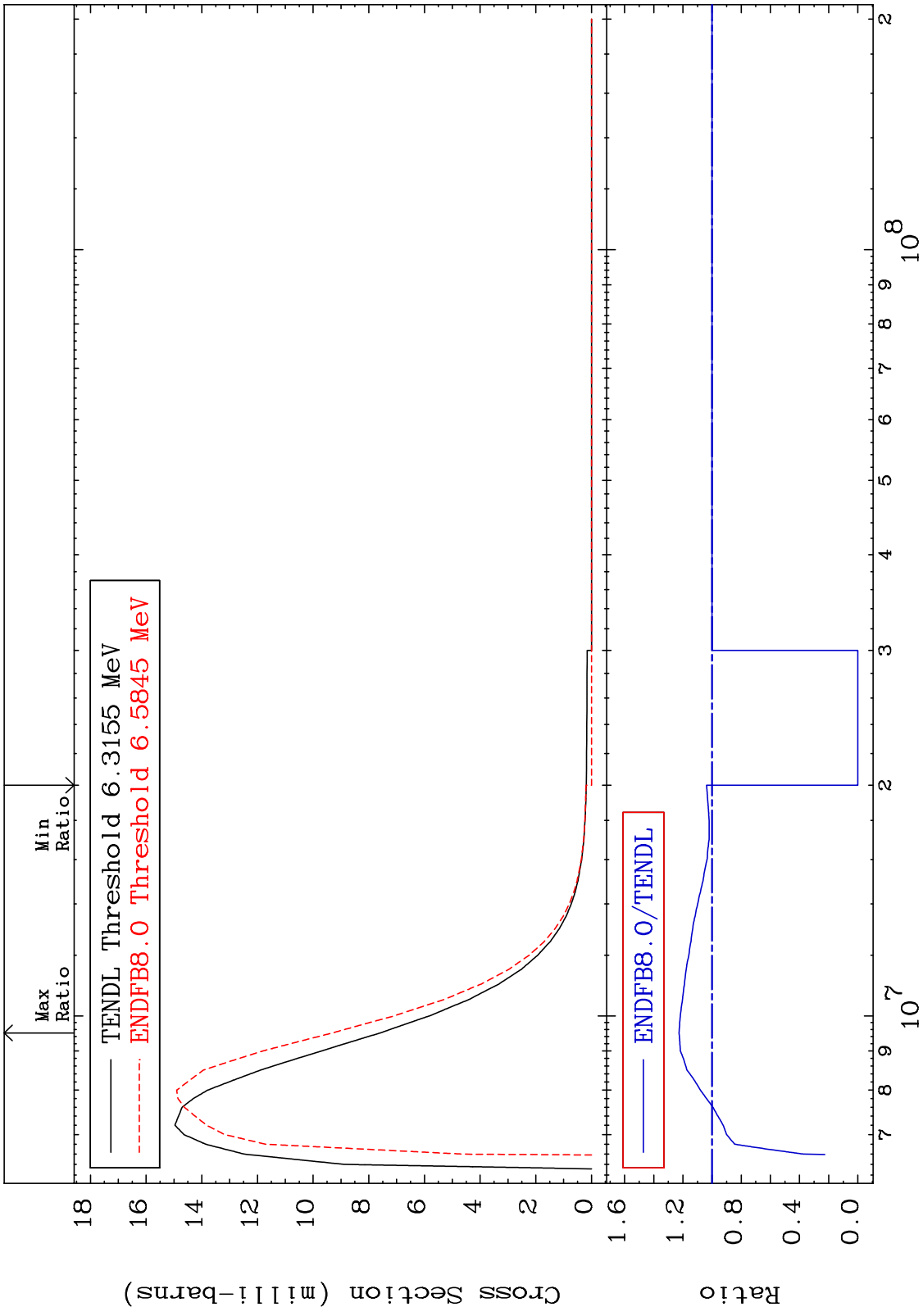


MAT 2025 MT= 63 (n,n') Level Cross Section -100.0 To 874.5 % 20-Ca-40

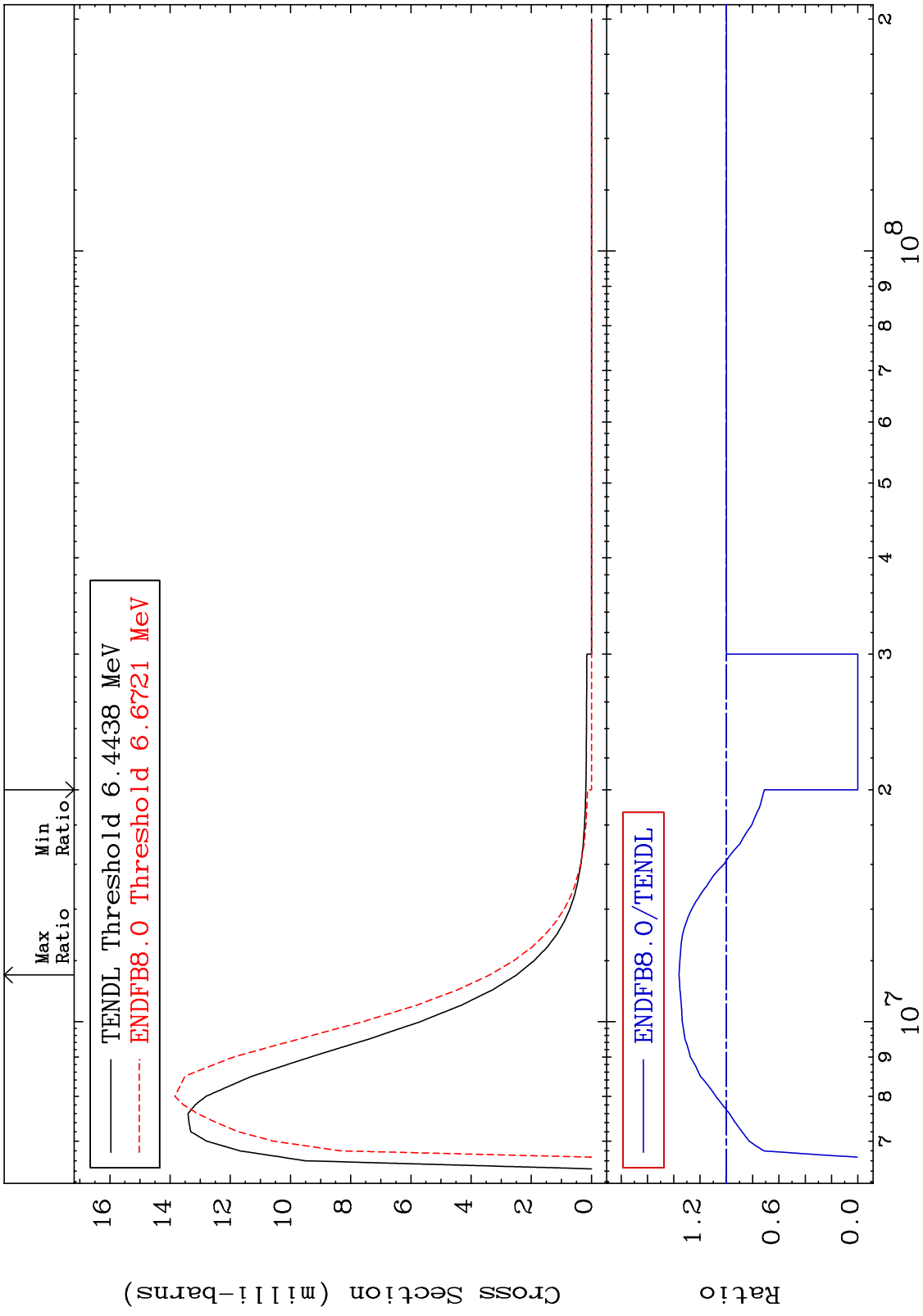




MAT 2025 MT= 64 (n,n') Level Cross Section -100.0 To 22.66 % 20-Ca-40

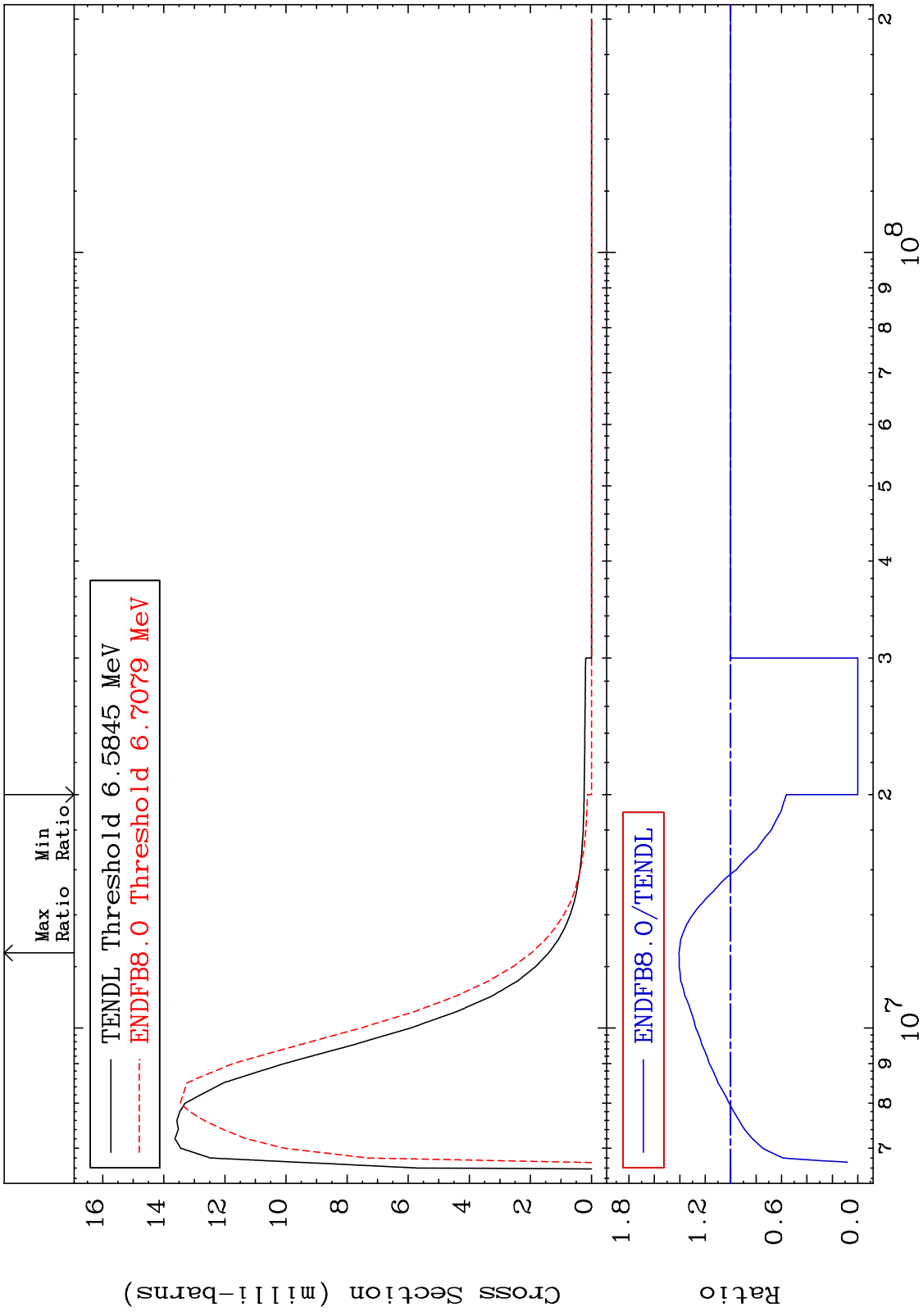


MAT 2025 MT= 65 (n,n') Level Cross Section -100.0 To 35.99 % 20-Ca-40

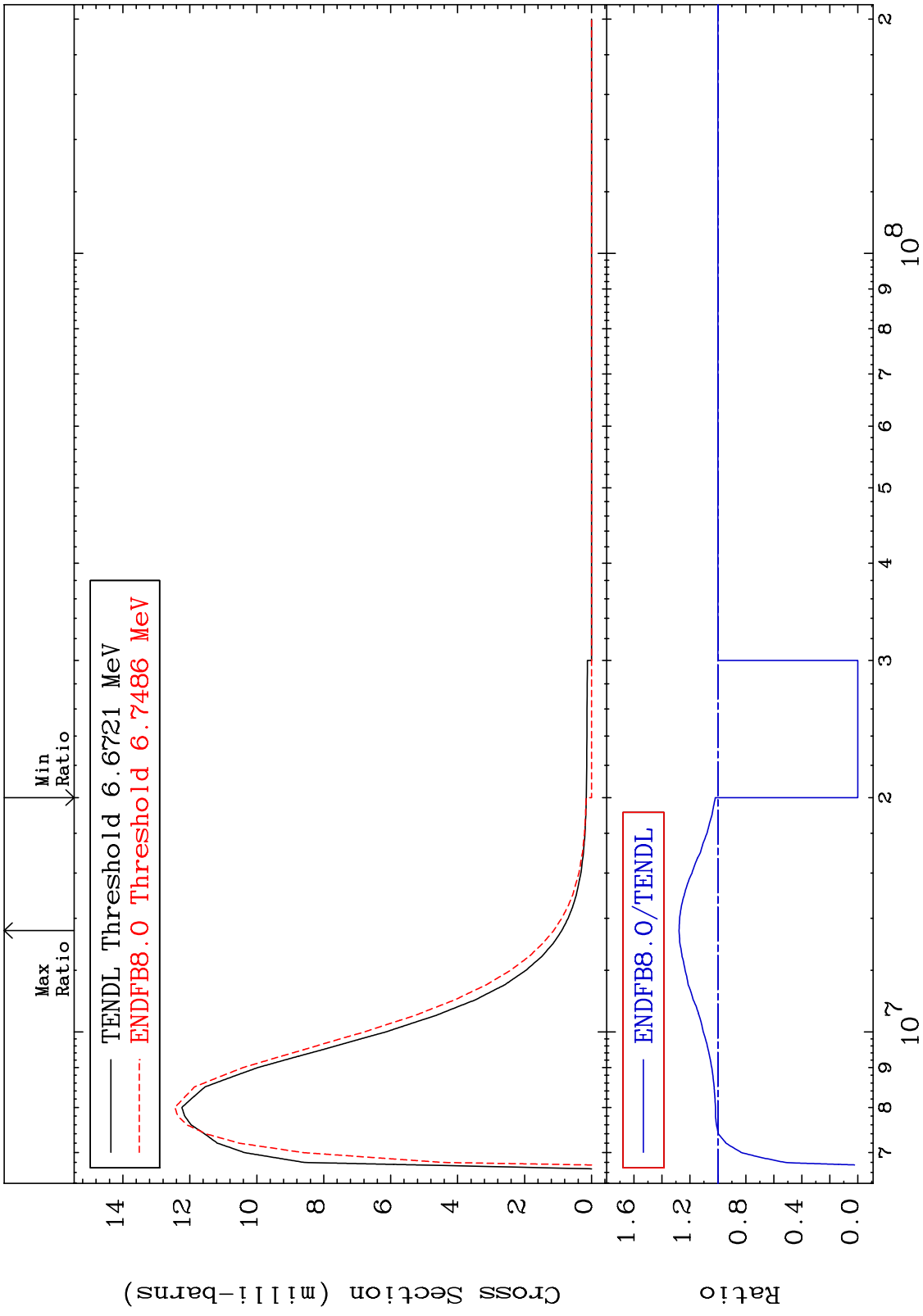


25 Incident Energy (eV) 20-Ca-40

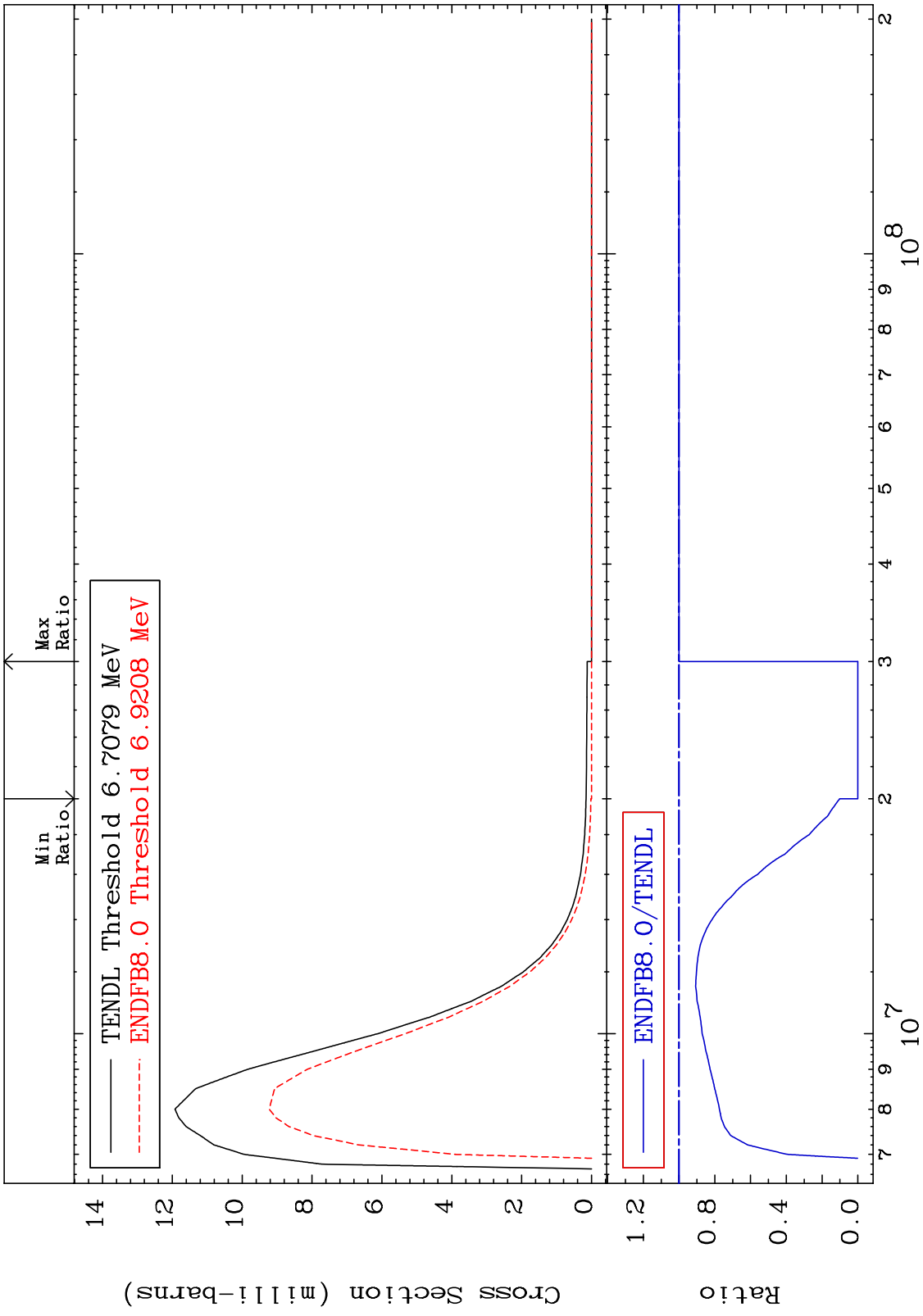
MAT 2025 MT= 66 (n,n') Level Cross Section -100.0 To 40.58 % 20-Ca-40



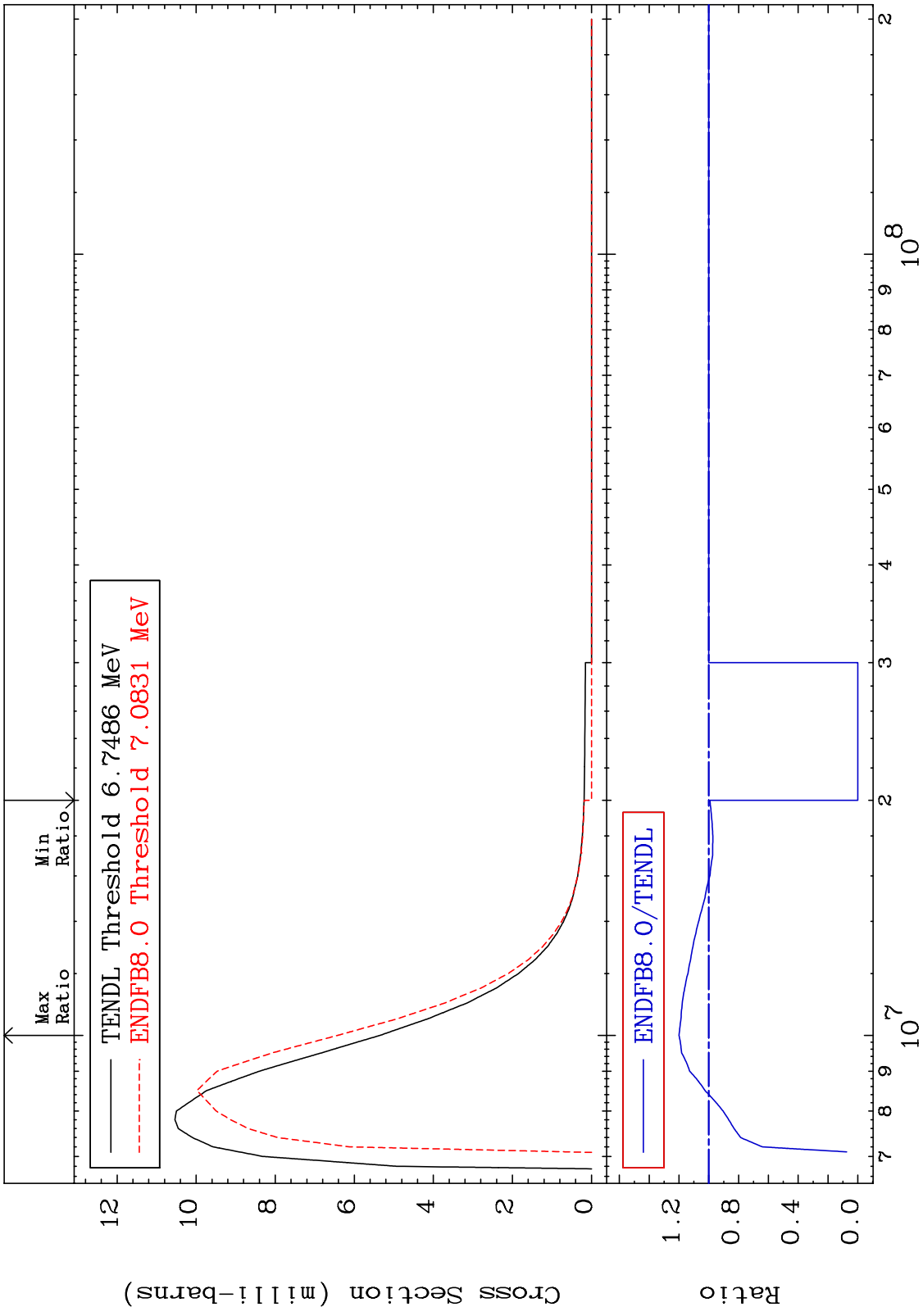
MAT 2025 MT= 67 (n,n') Level Cross Section -100.0 To 27.74 % 20-Ca-40



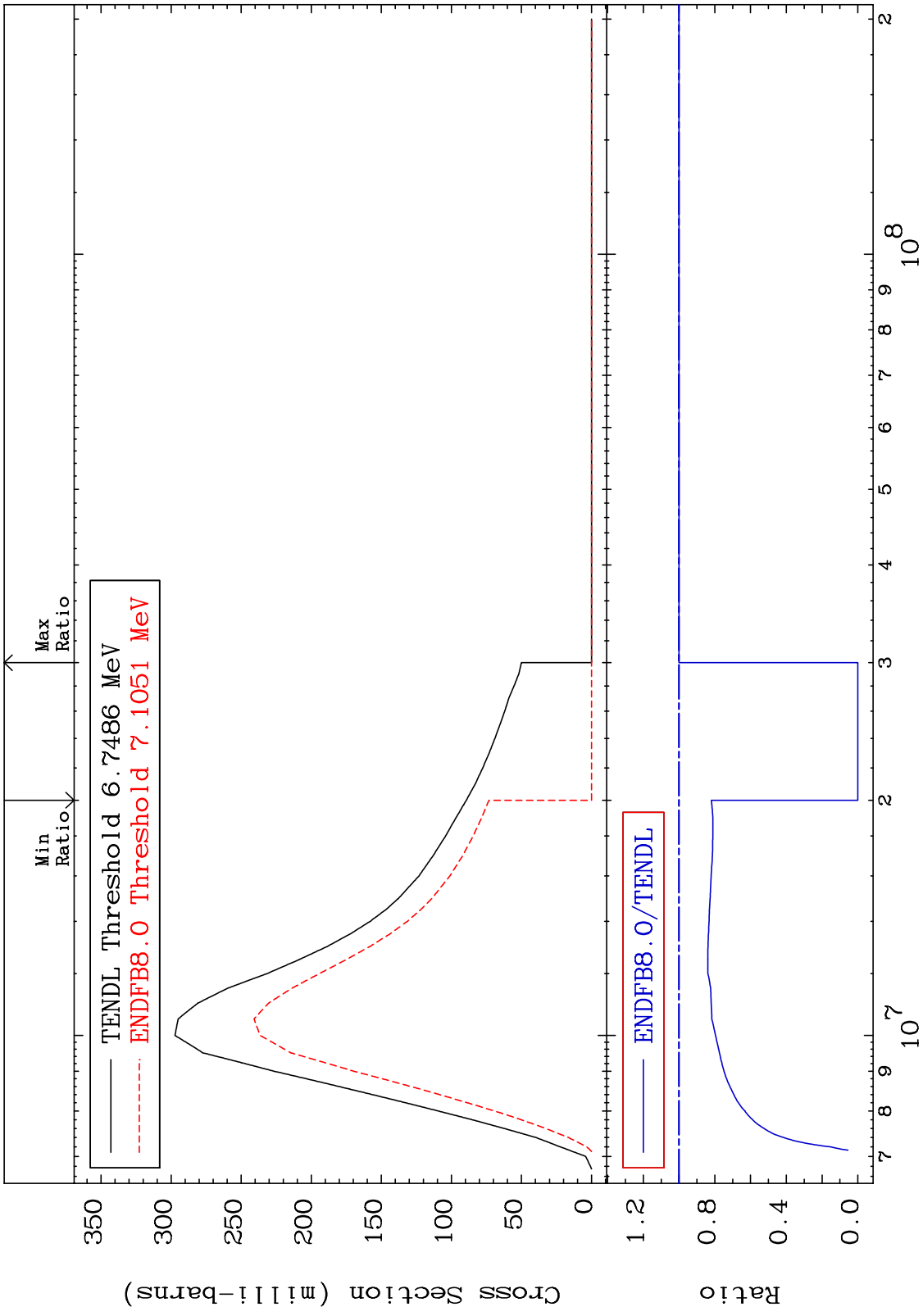
MAT 2025 MT= 68 (n,n') Level Cross Section -100.0 To 0.000 % 20-Ca-40



MAT 2025 MT= 69 (n,n') Level Cross Section -100.0 To 19.96 % 20-Ca-40



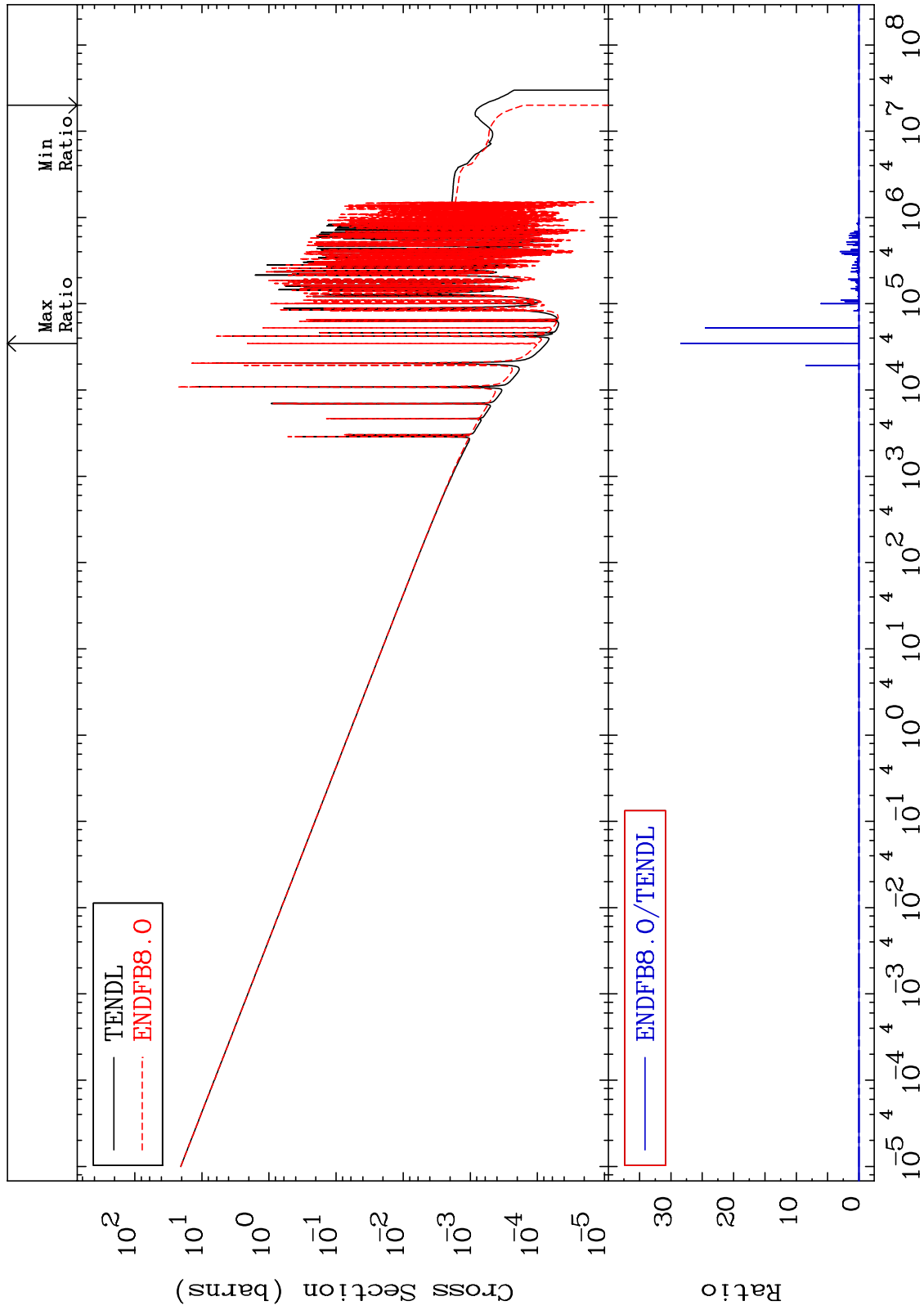
MAT 2025 (n,n') Continuum Cross Section -100.0 To 0.000 % 20-Ca-40



MAT 2025

(n,  $\gamma$ ) Cross Section

20-Ca-40  
-100.0 To 9999. %



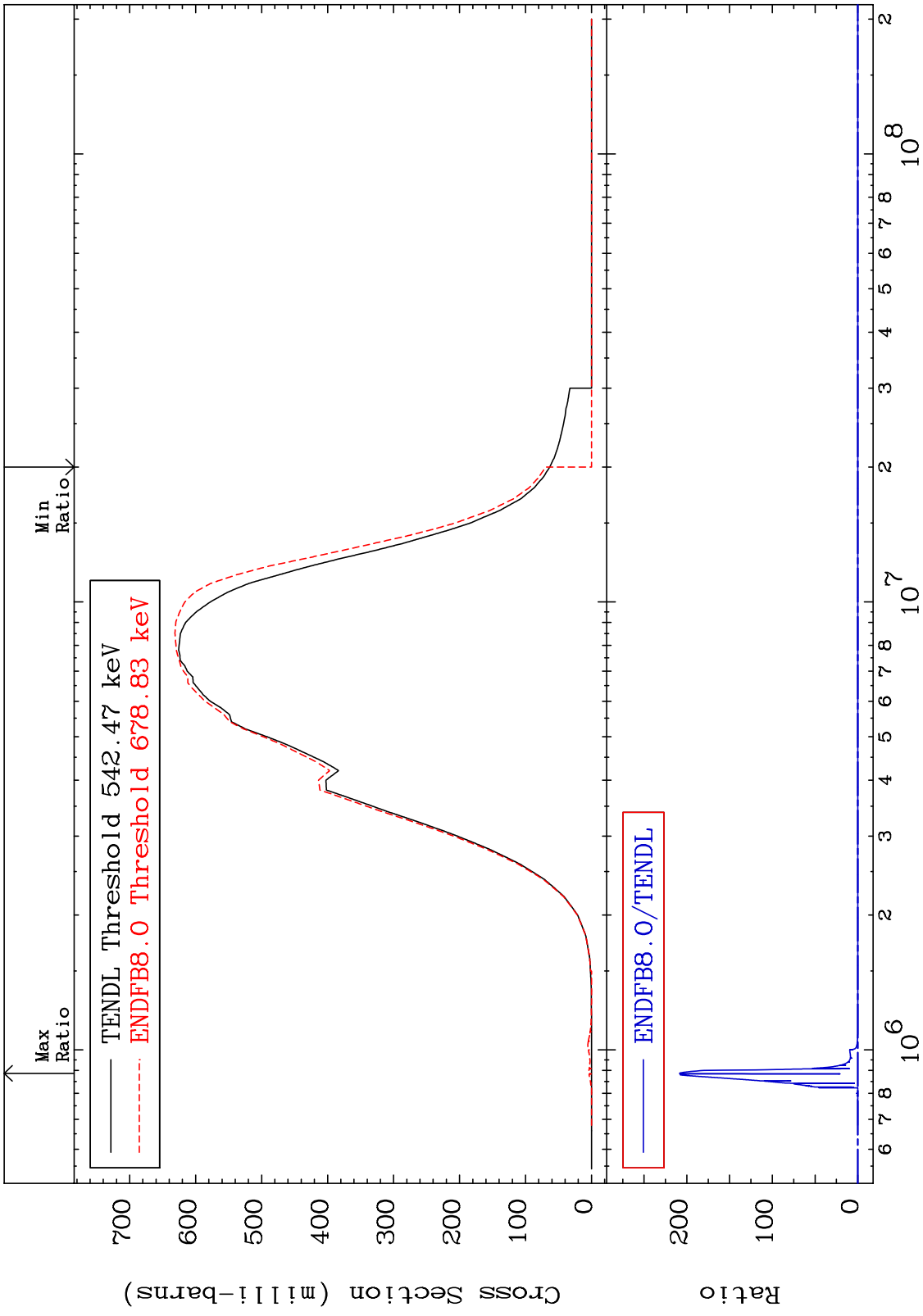
31

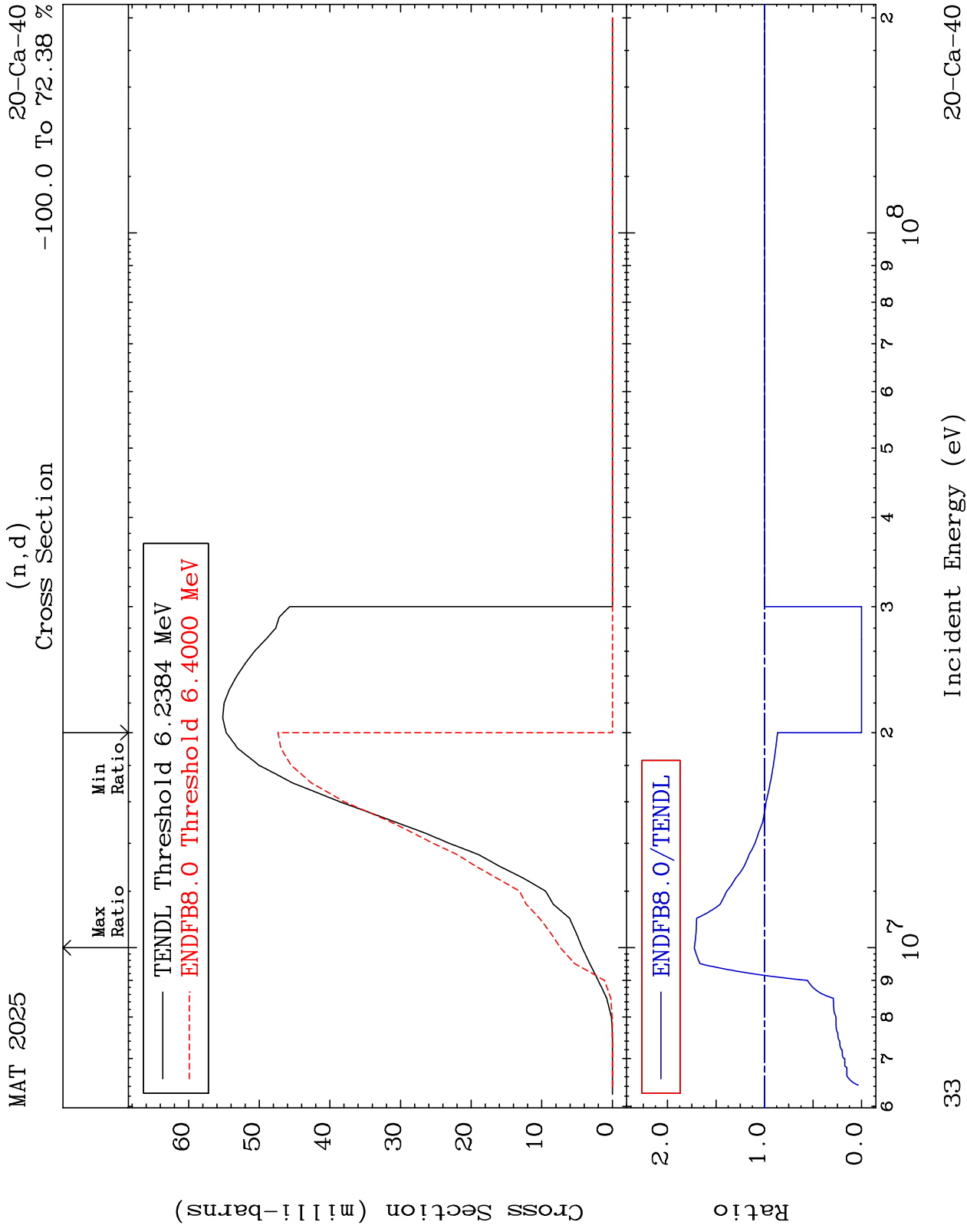
Incident Energy (eV)

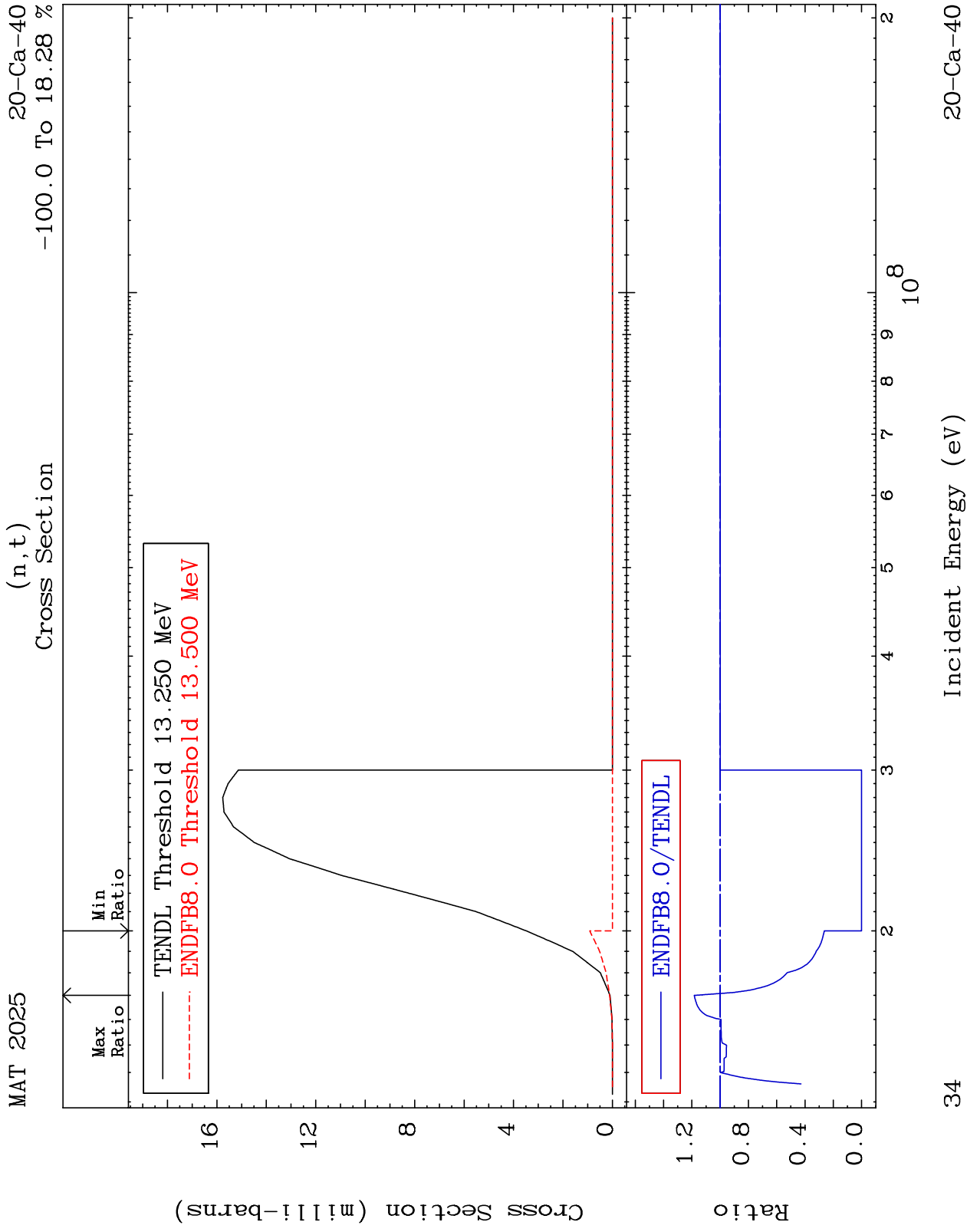
20-Ca-40



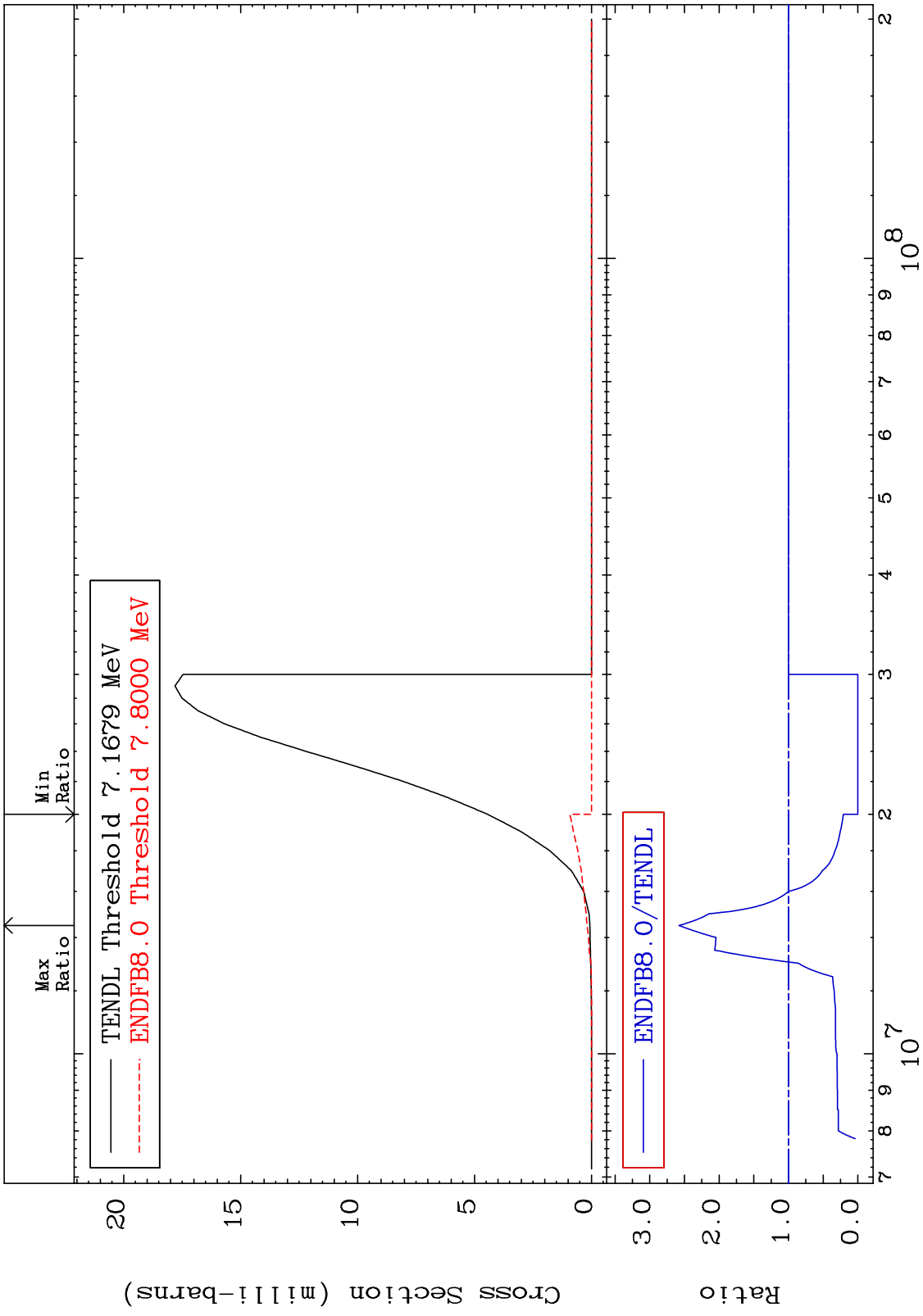
MAT 2025 (n,p) 20-Ca-40  
Cross Section -100.0 To 9999. %







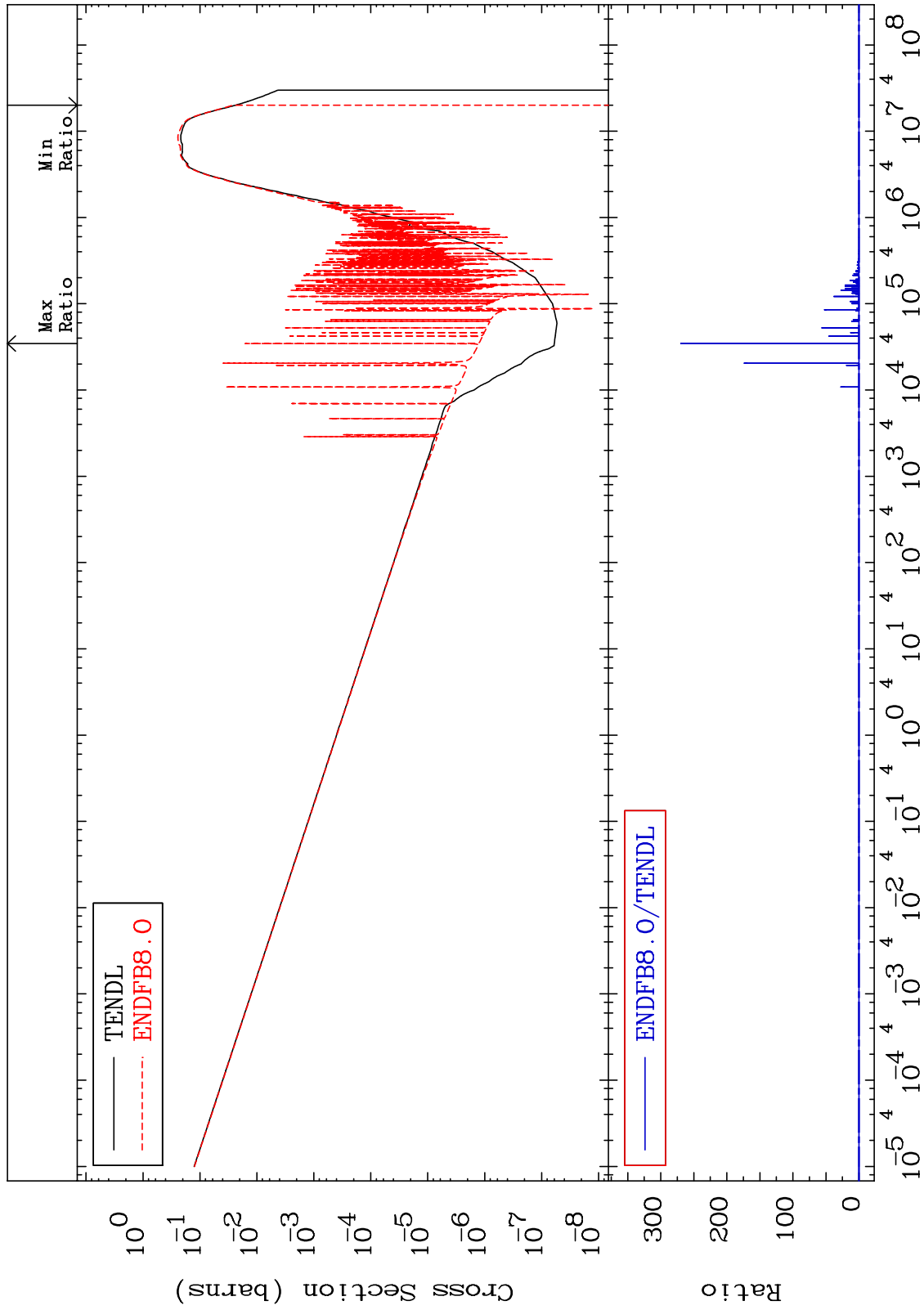
MAT 2025 (n, He-3) 20-Ca-40  
 Cross Section -100.0 To 157.8 %



MAT 2025

(n,  $\alpha$ )  
Cross Section

20-Ca-40  
-100.0 To 9999. %

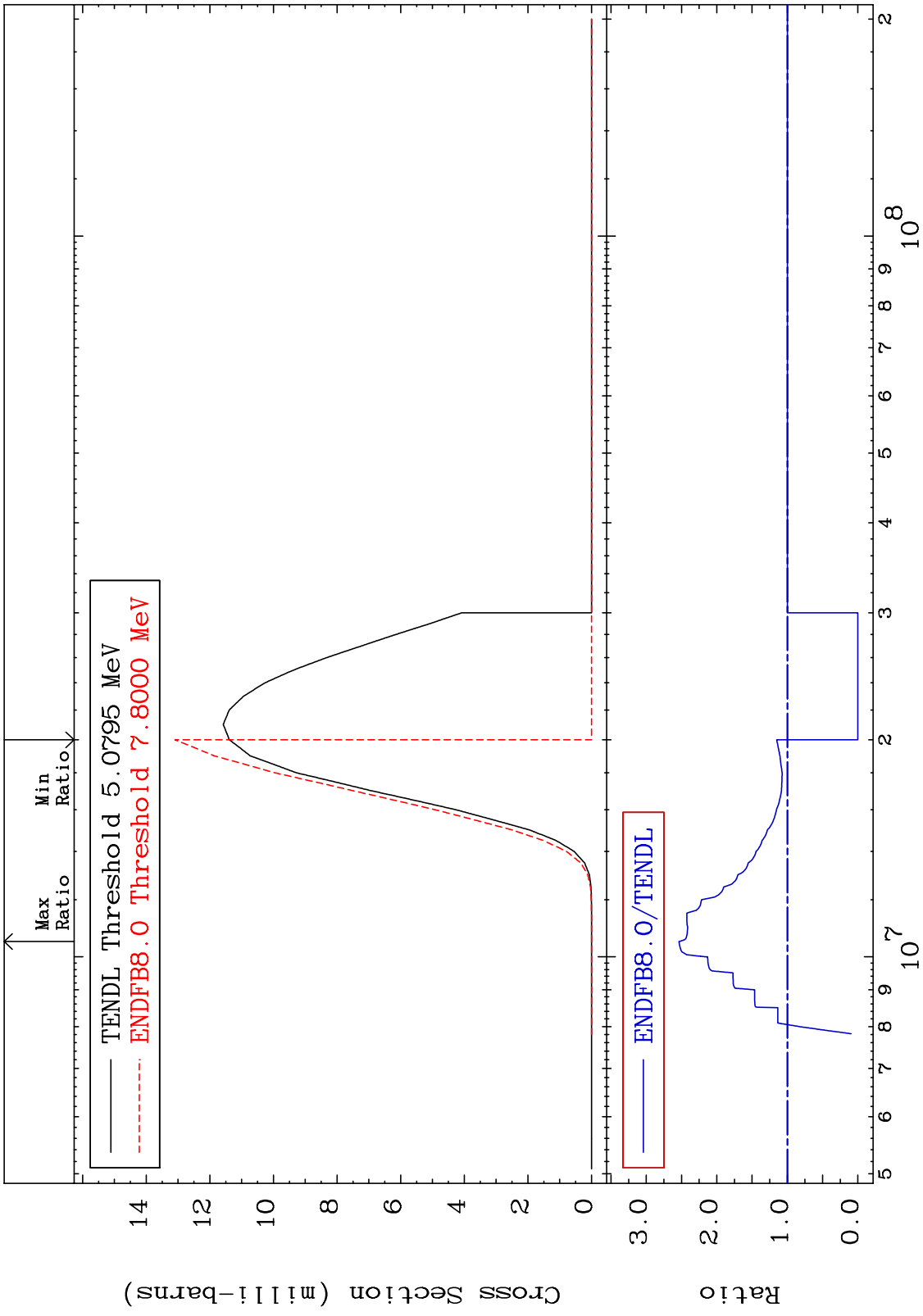


36

Incident Energy (eV)

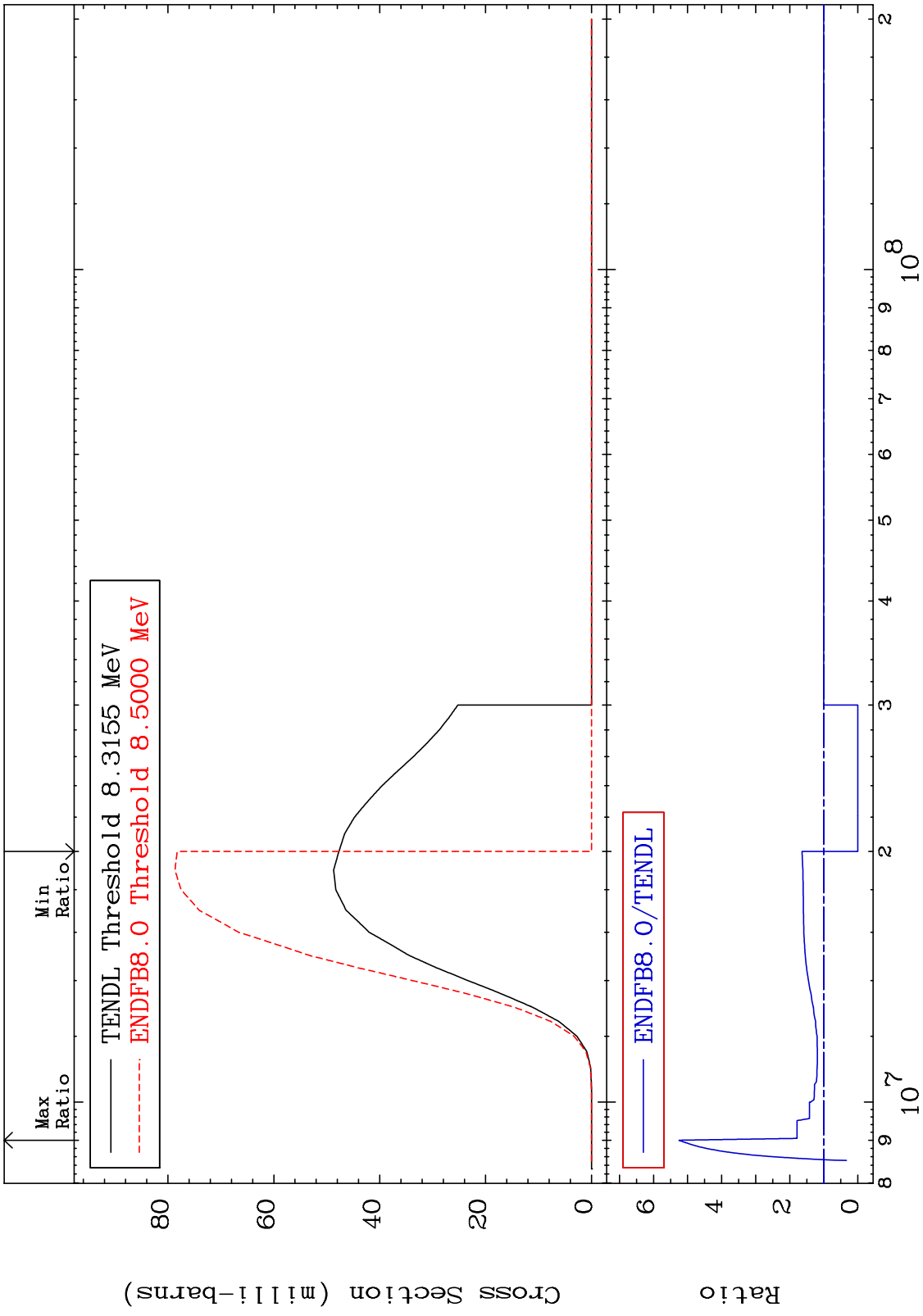
20-Ca-40

MAT 2025  $(n, 2\alpha)$  20-Ca-40  
 Cross Section -100.0 To 153.5 %

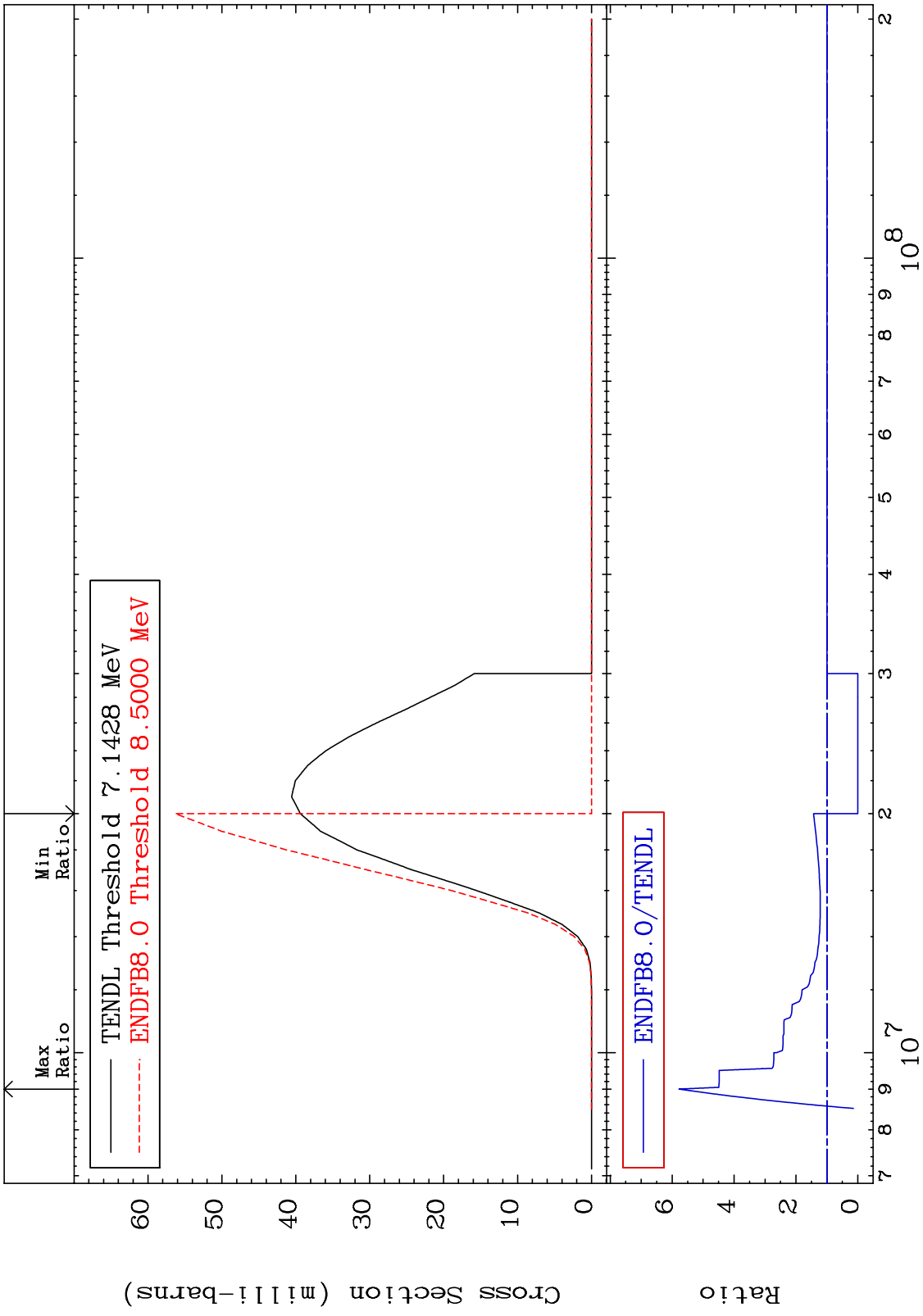


37 Incident Energy (eV) 20-Ca-40

MAT 2025 (n,2p) Cross Section 20-Ca-40 -100.0 To 425.1 %

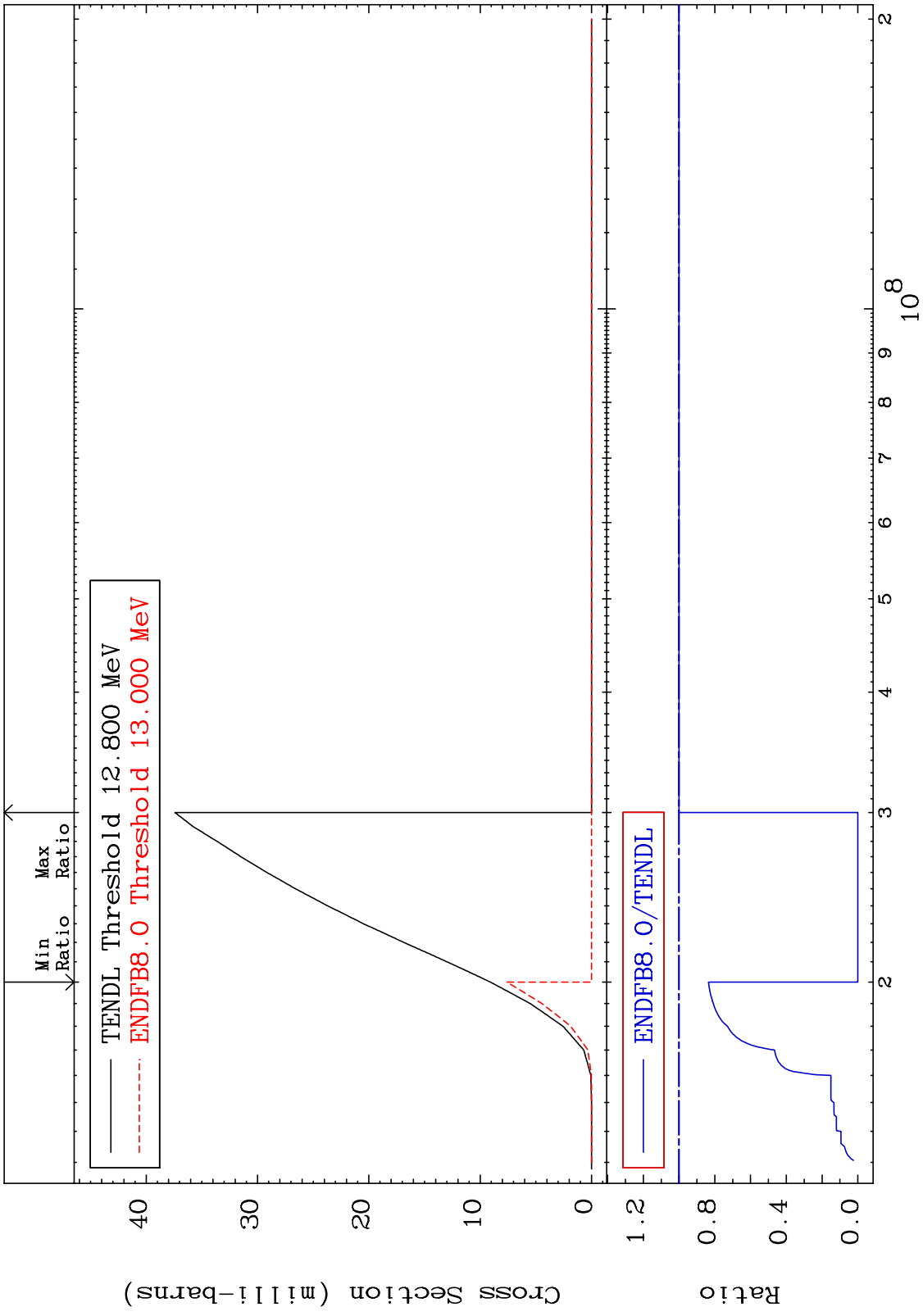


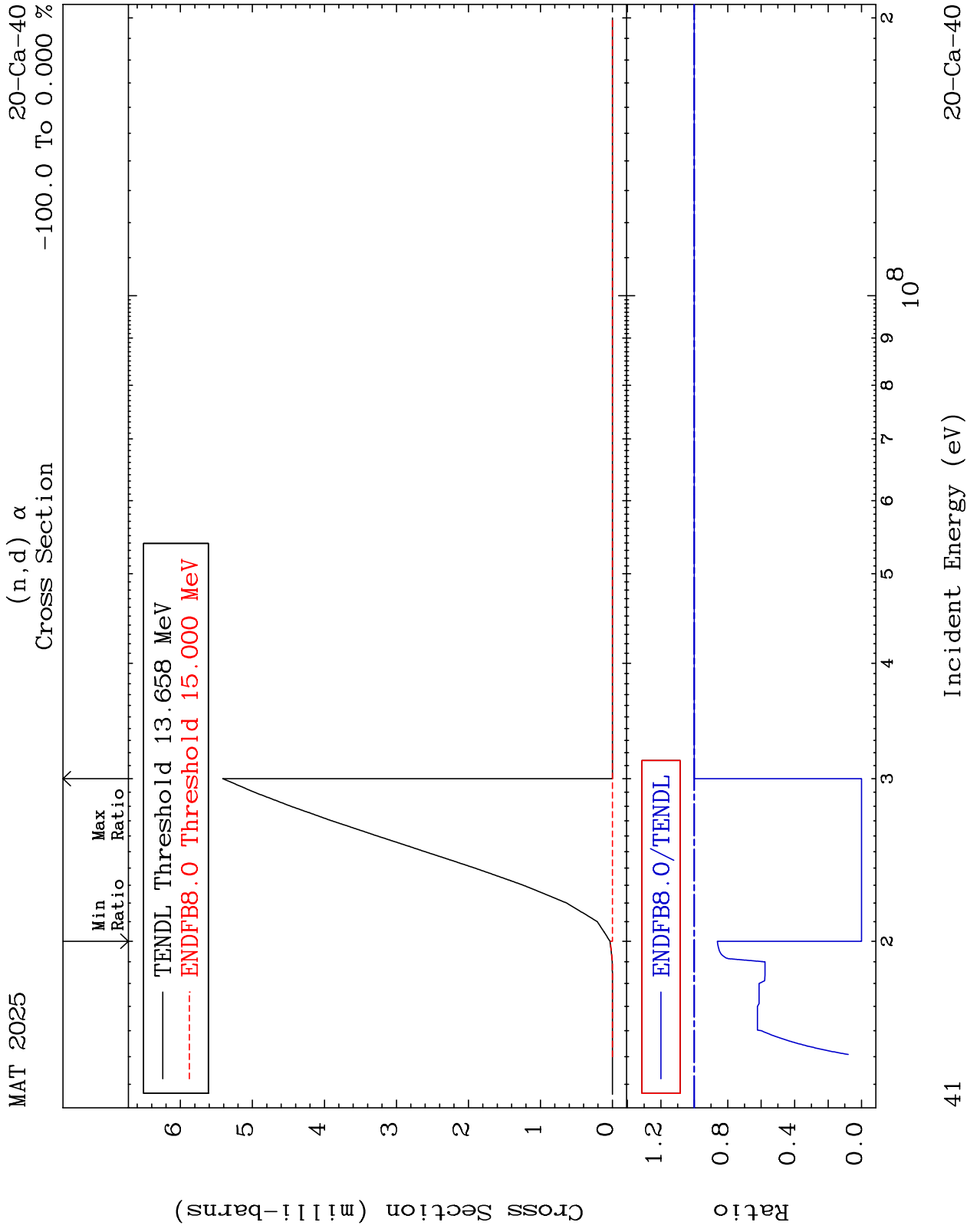
MAT 2025  $(n,p) \alpha$  Cross Section  $^{20}\text{Ca-40}$  -100.0 To 477.8 %

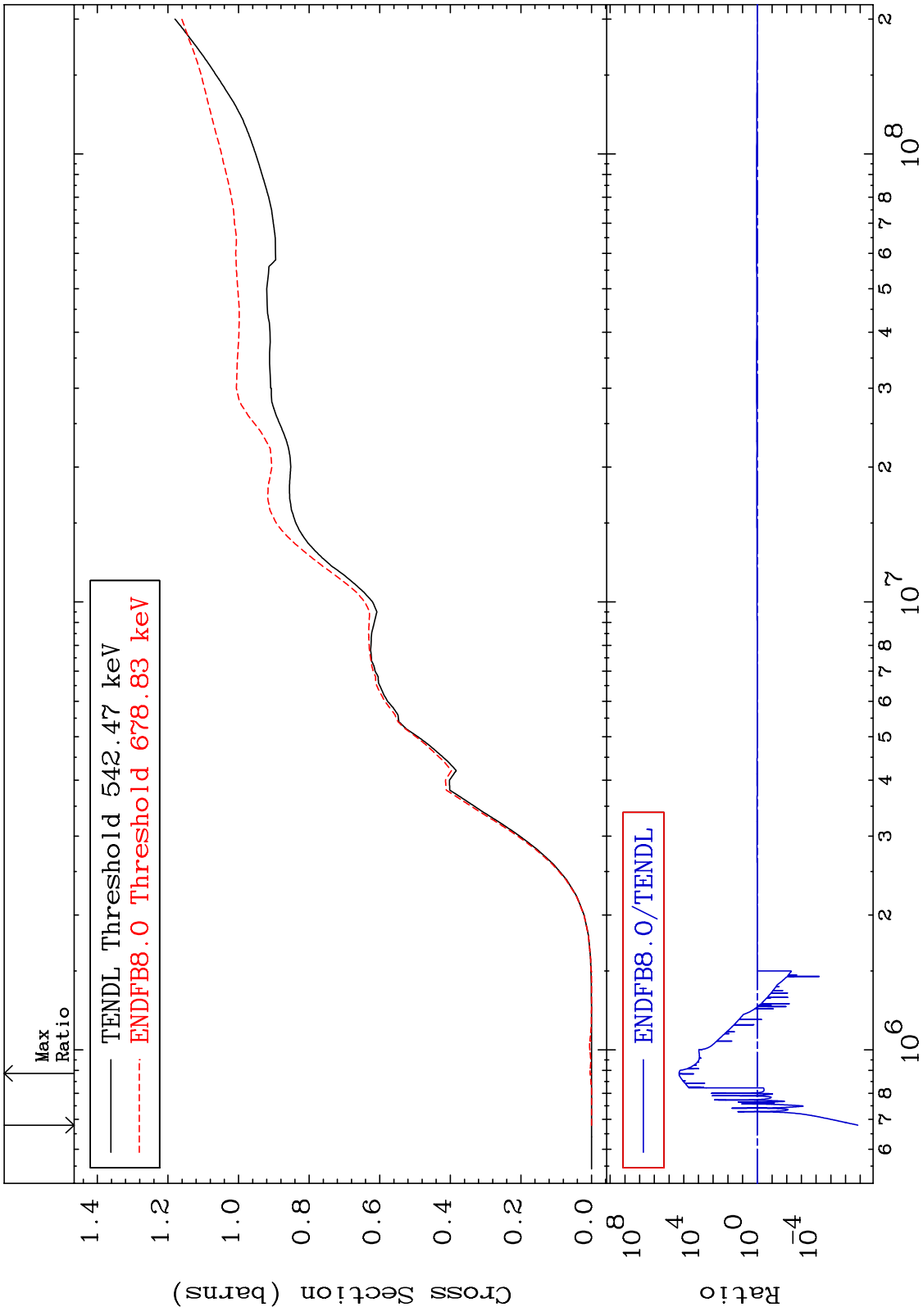




MAT 2025 (n,p) d 20-Ca-40  
Cross Section -100.0 To 0.000 %



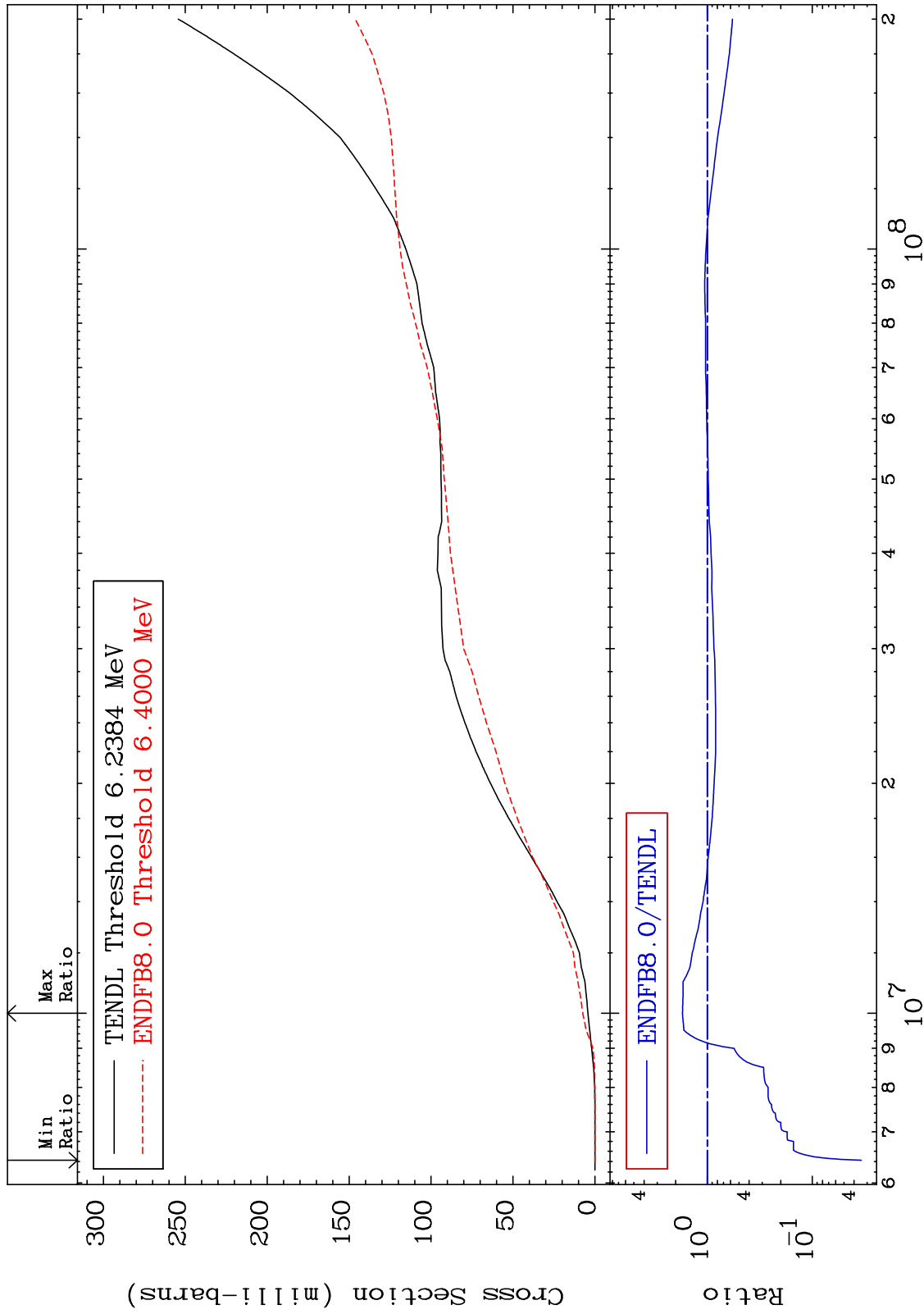


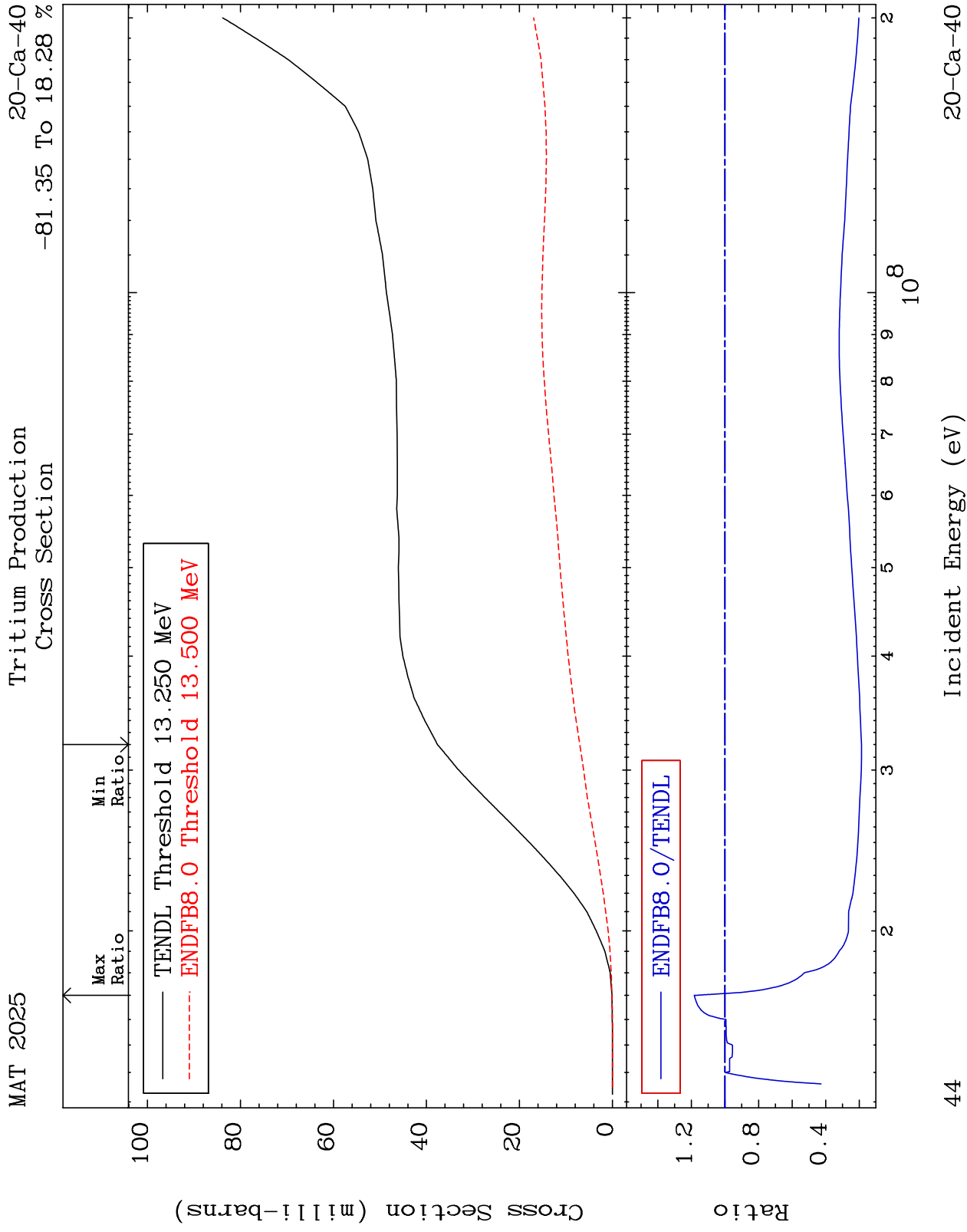


MAT 2025

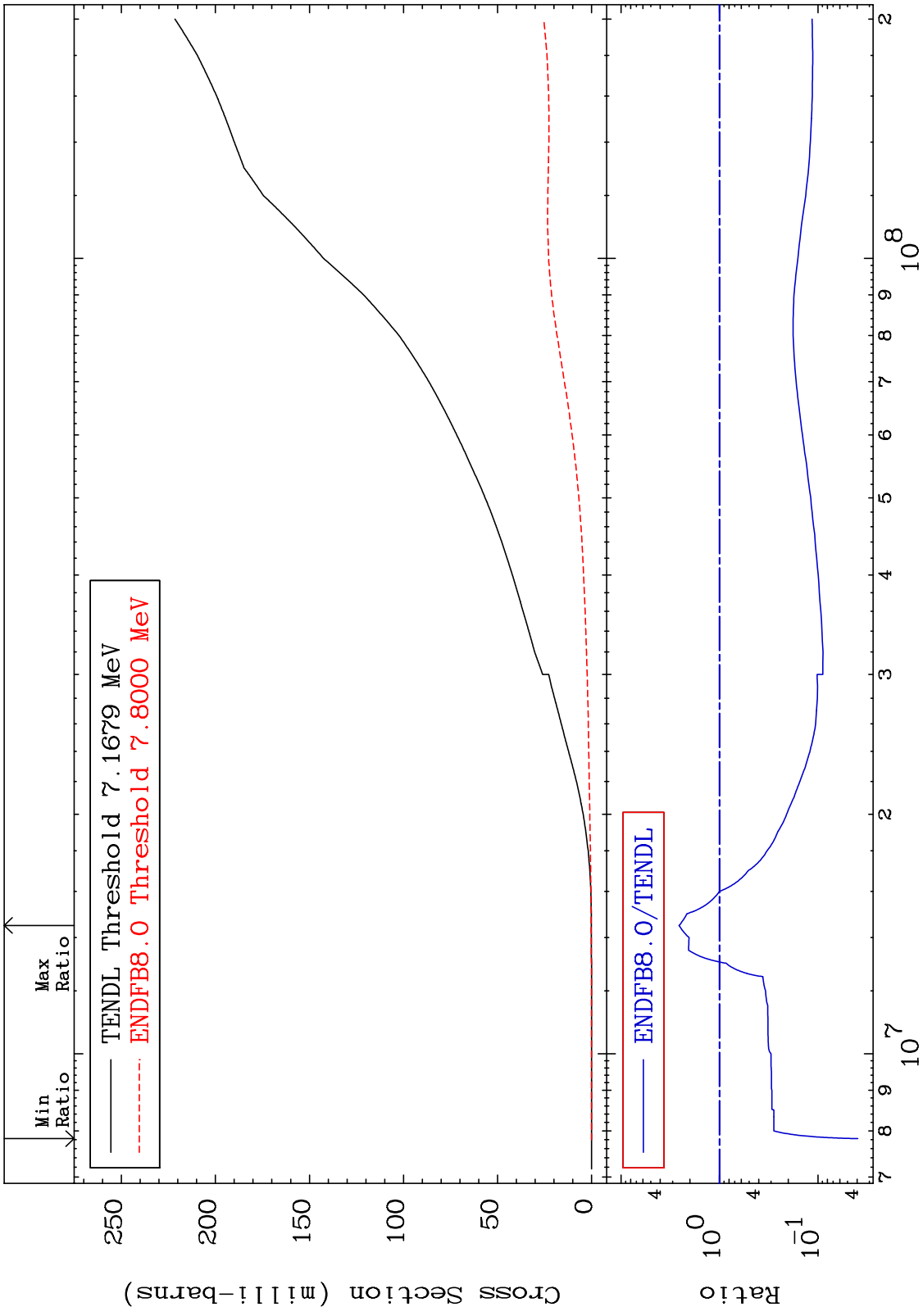
Deuterium Production  
Cross Section

<sup>20</sup>Ca-40  
-96.58 To 72.38 %





MAT 2025 He-3 Production Cross Section 20-Ca-40 -96.07 To 157.8 %

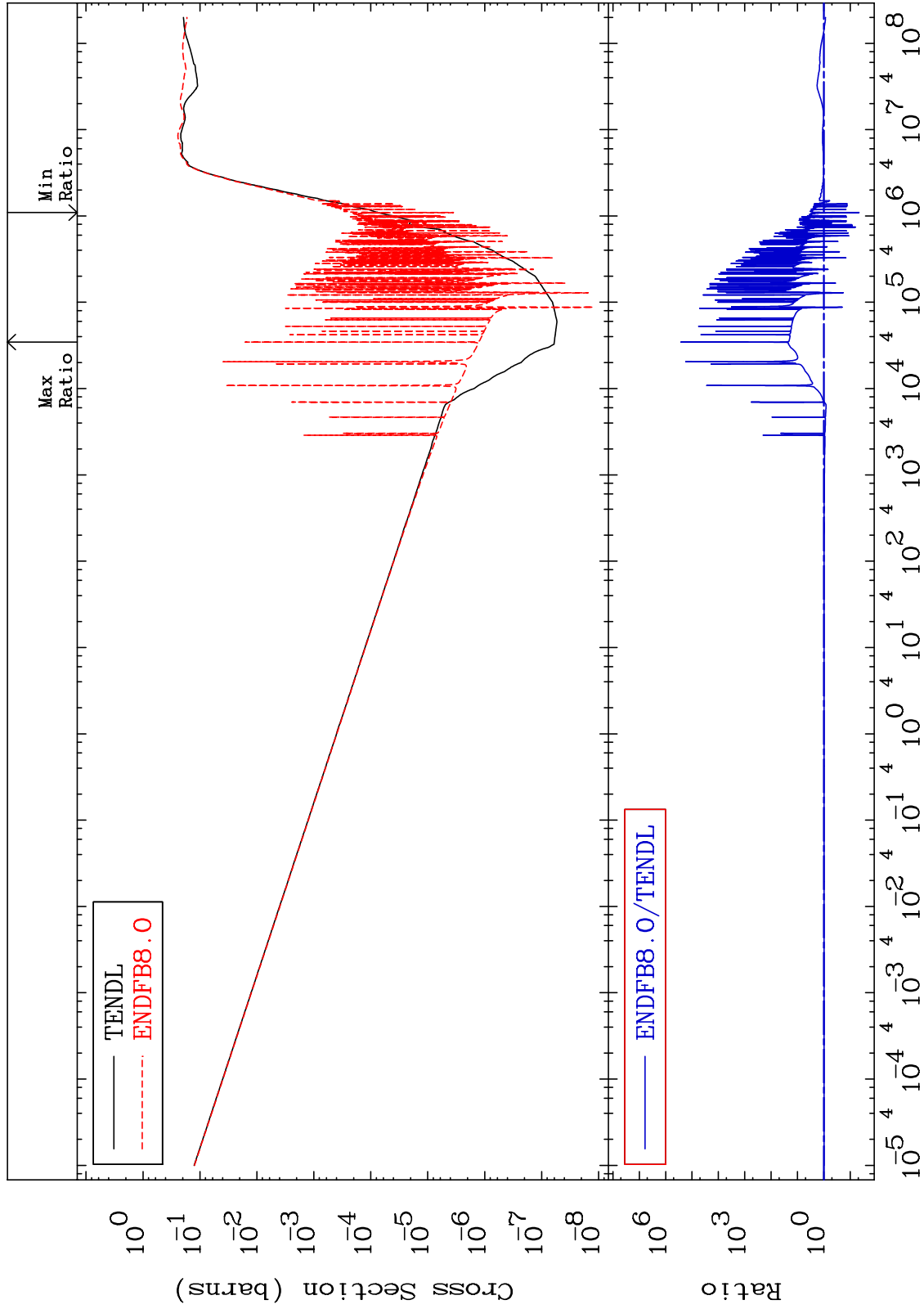


45 20-Ca-40

MAT 2025

He-4 Production  
Cross Section

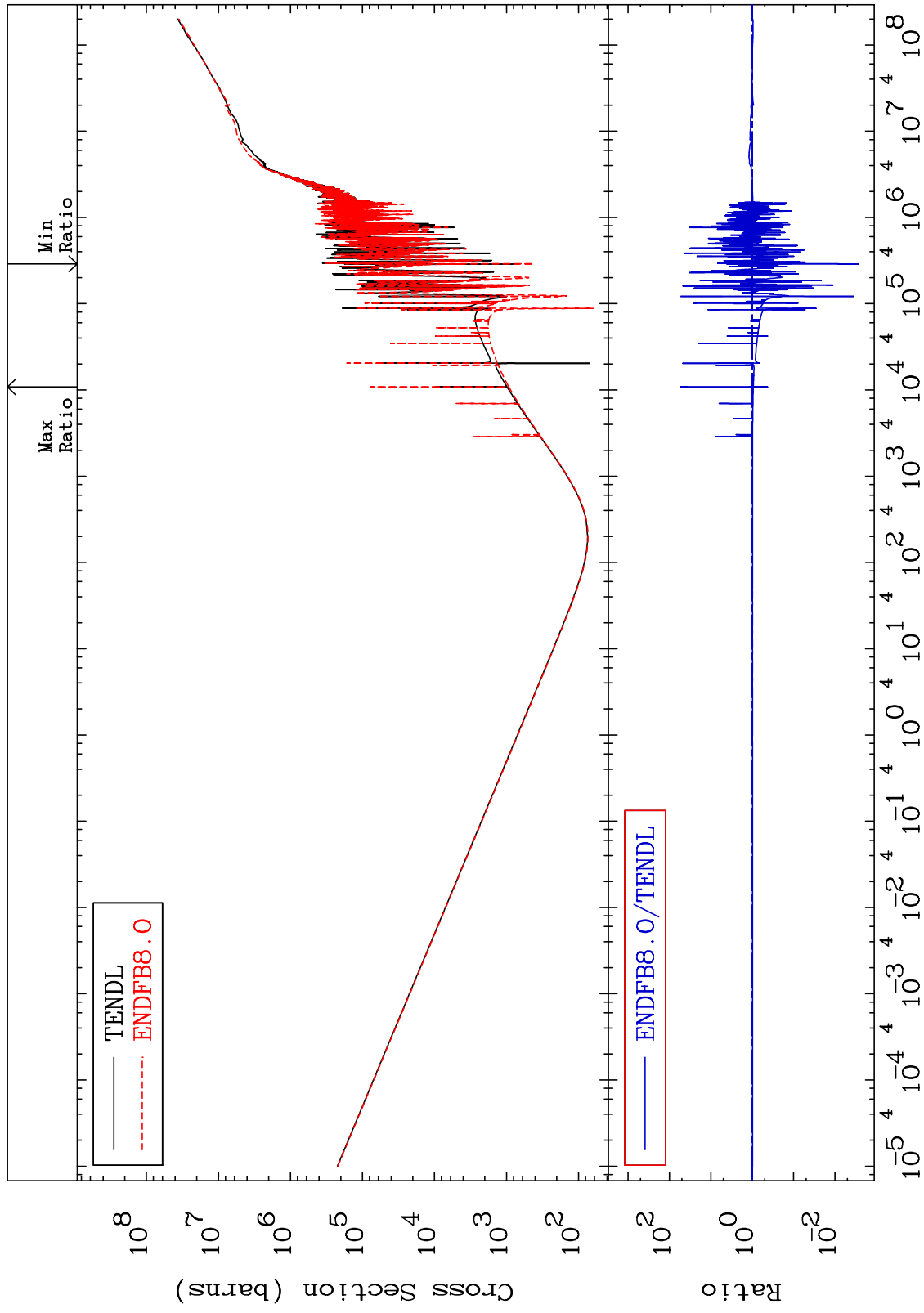
20-Ca-40  
-95.33 To 9999. %



MAT 2025

Kerma total (eV-barns)  
Cross Section

20-Ca-40  
-99.74 To 5270. %

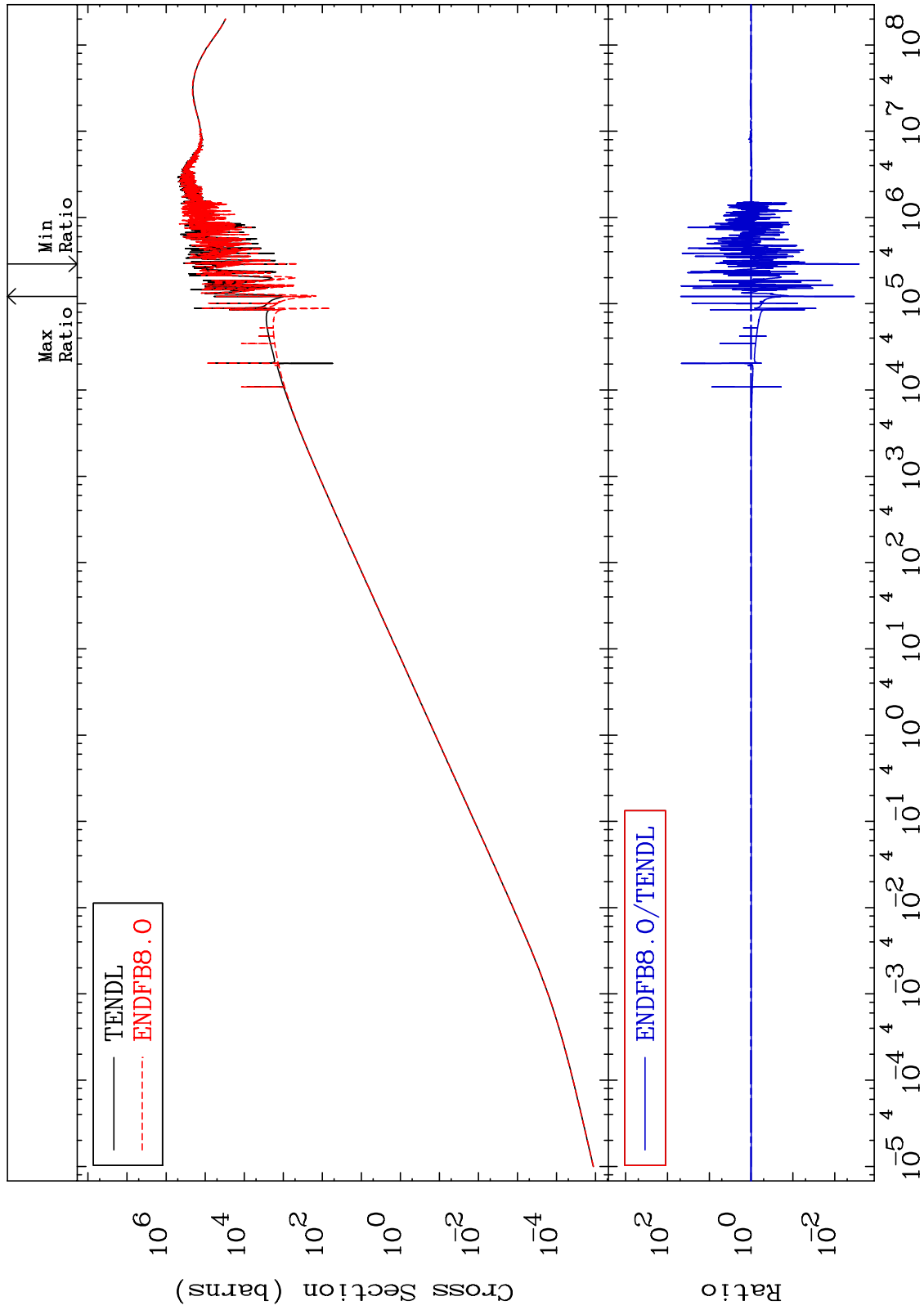




MAT 2025

Kerma elastic  
Cross Section

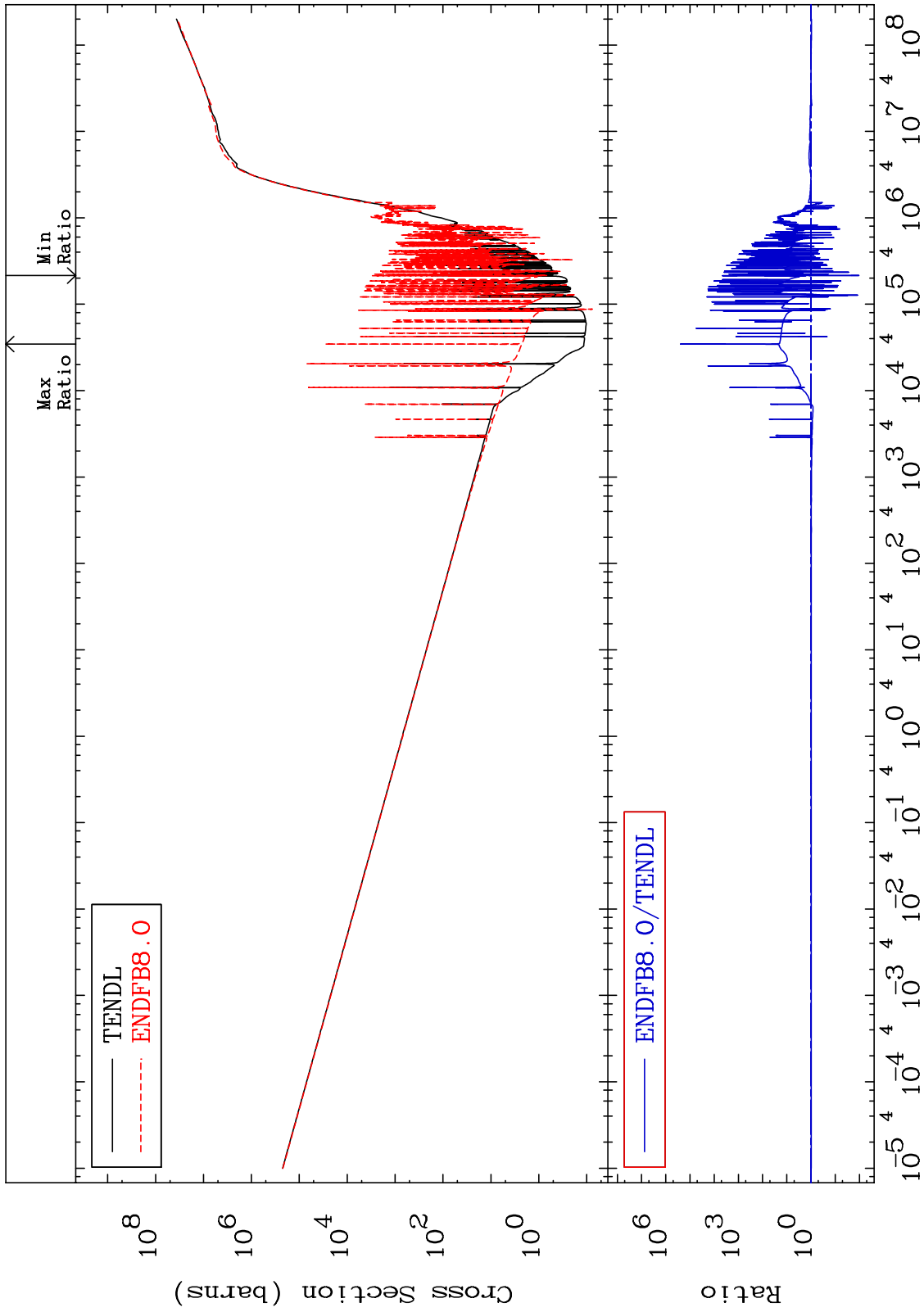
20-Ca-40  
-99.74 To 4746. %



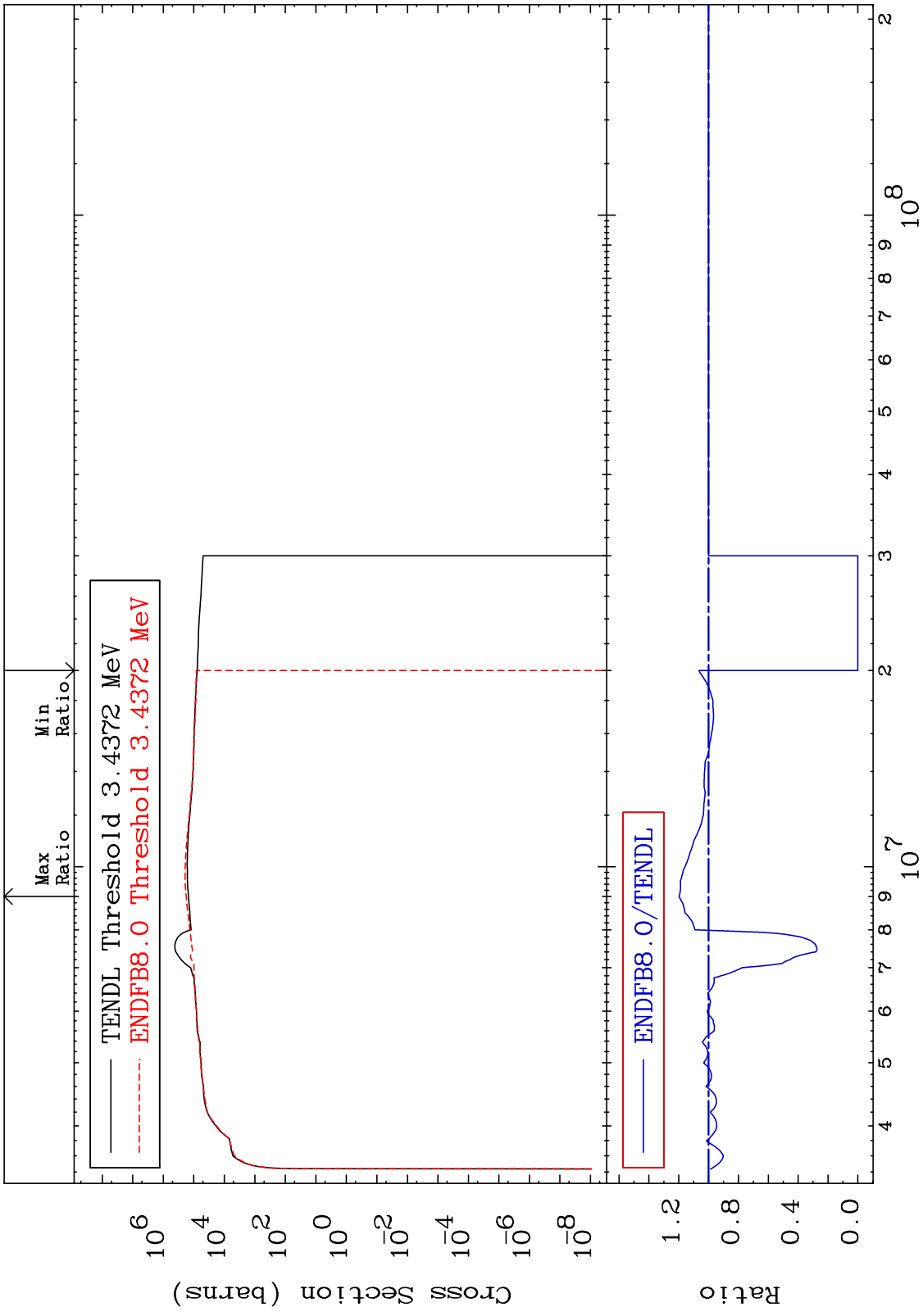
MAT 2025

Kerma non-elastic (all but mt2)  
Cross Section

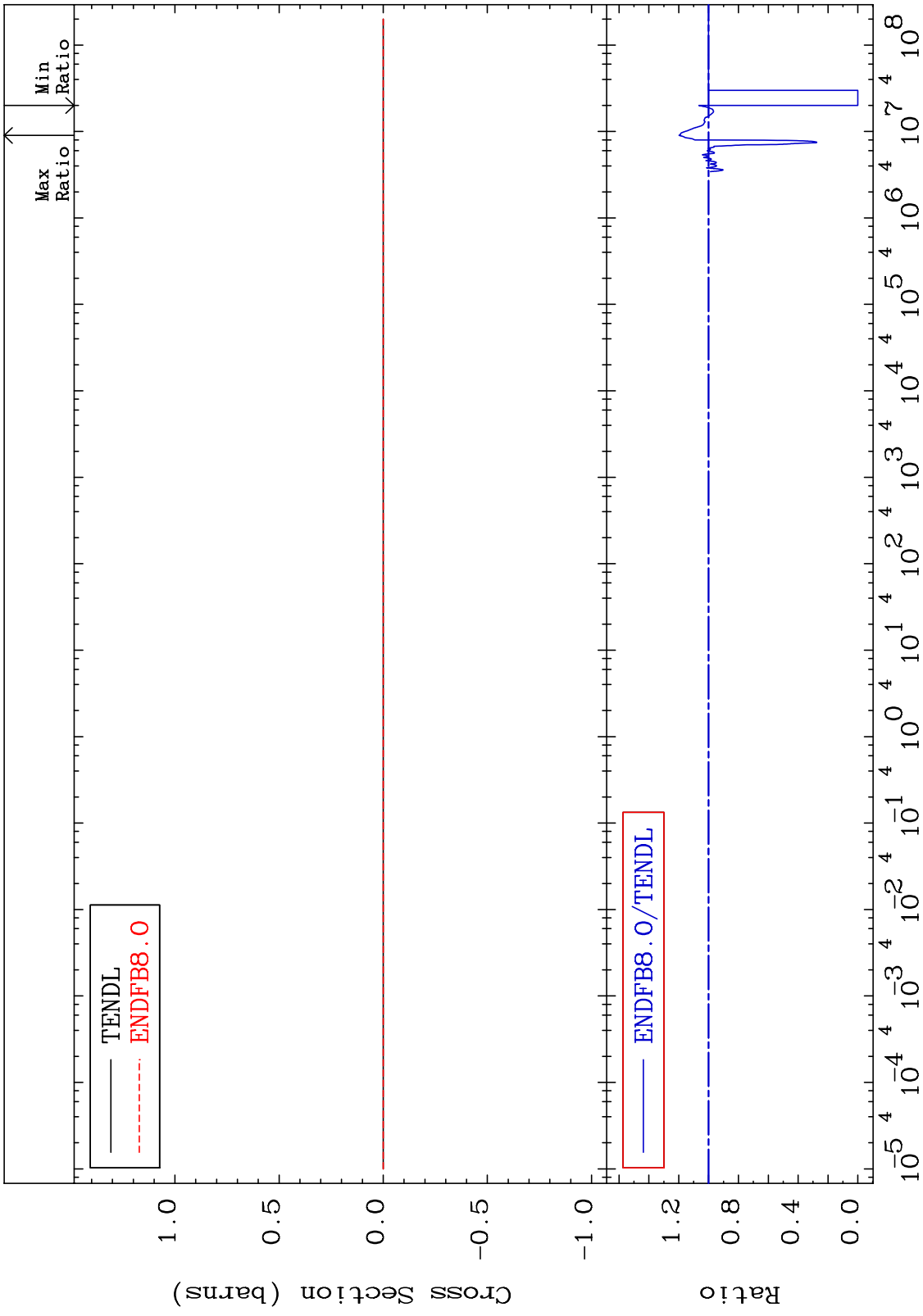
20-Ca-40  
-98.95 To 9999. %



MAT 2025 Kerma inelastic (mt51-91) 20-Ca-40  
 Cross Section -100.0 To 19.80 %



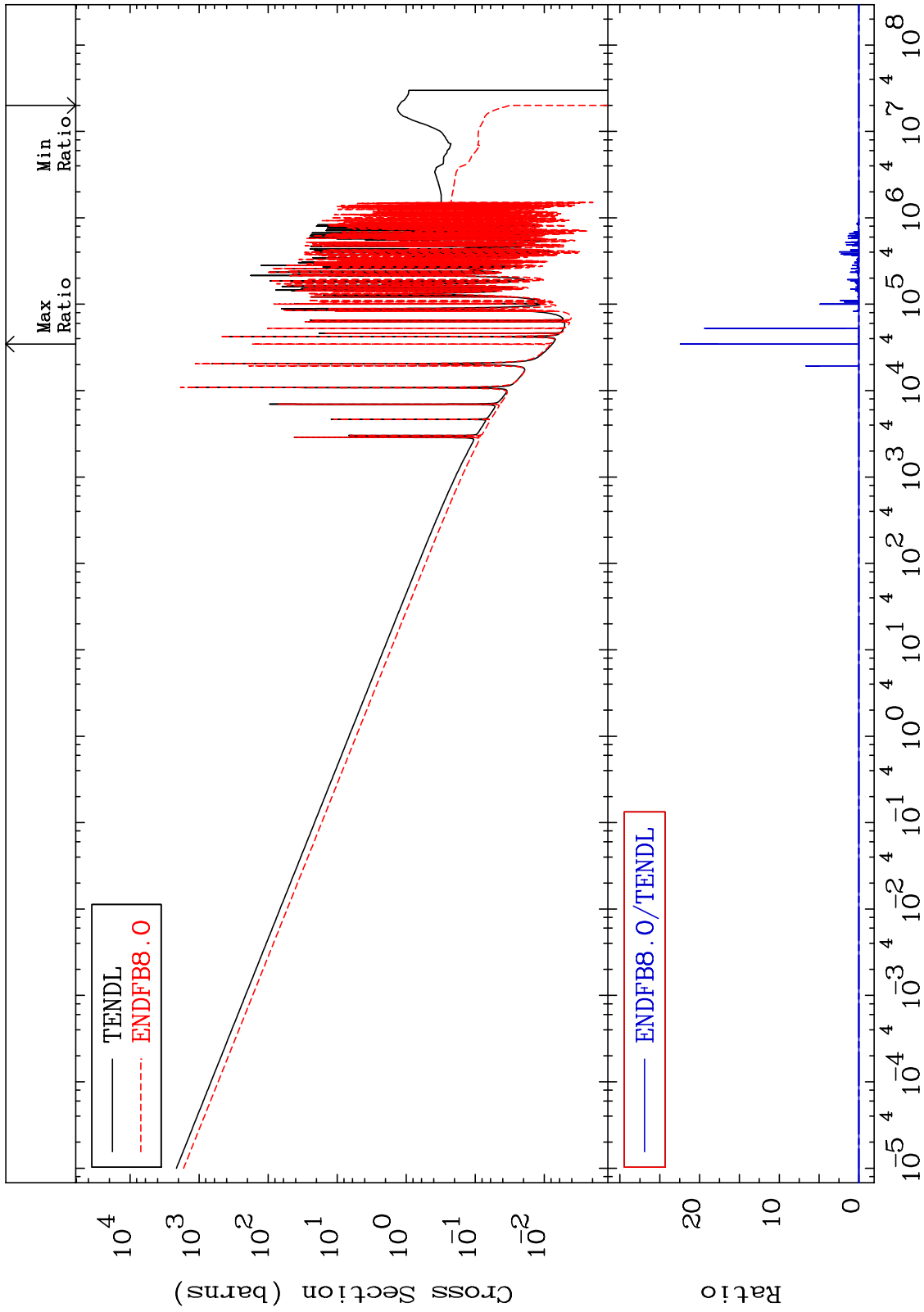
MAT 2025 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-40  
 Cross Section -100.0 To 19.80 %



MAT 2025

Kerma capture (mt102)  
Cross Section

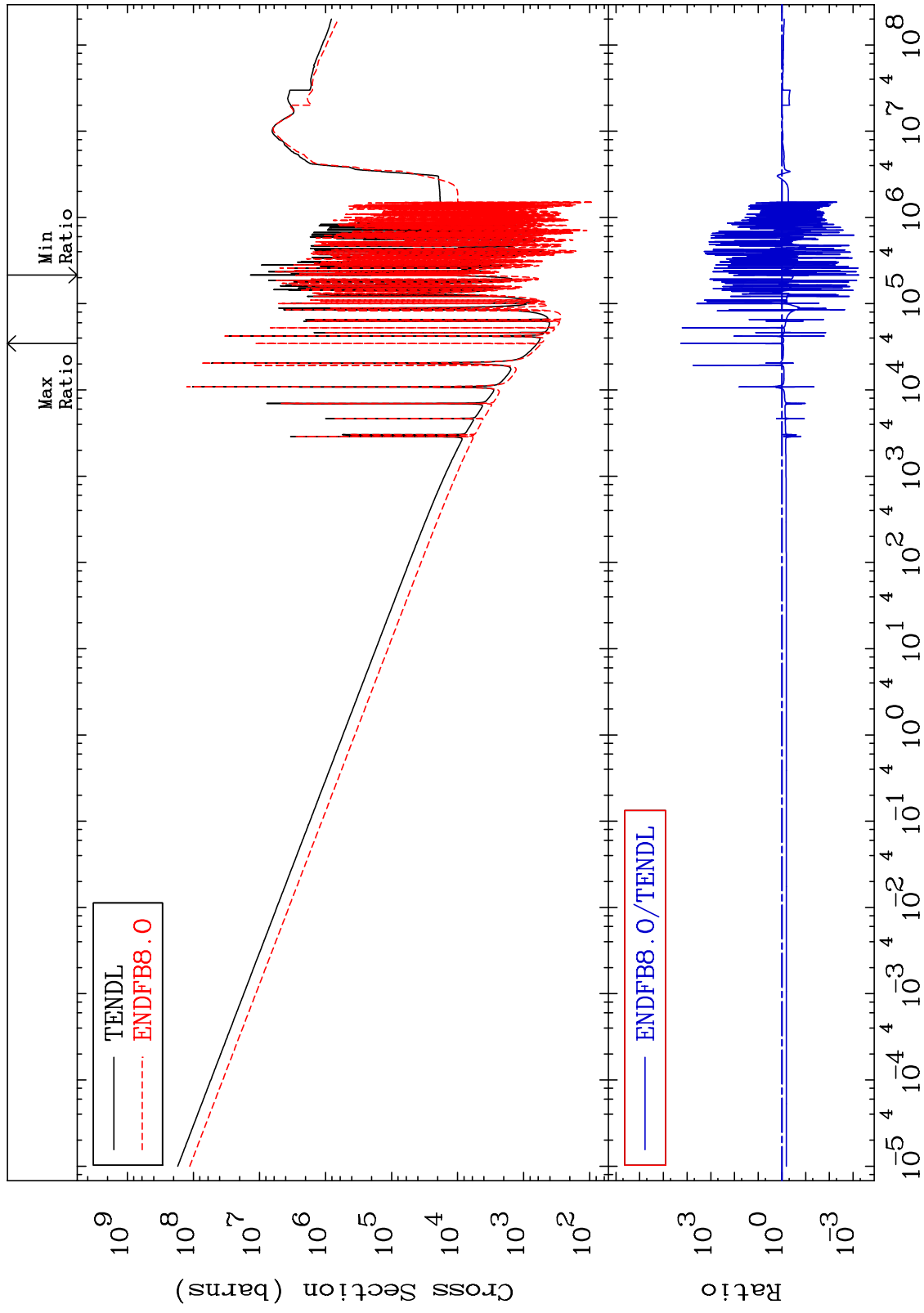
20-Ca-40  
-100.0 To 9999. %



MAT 2025

Total photon (eV-barns)  
Cross Section

20-Ca-40  
-99.94 To 9999. %



53

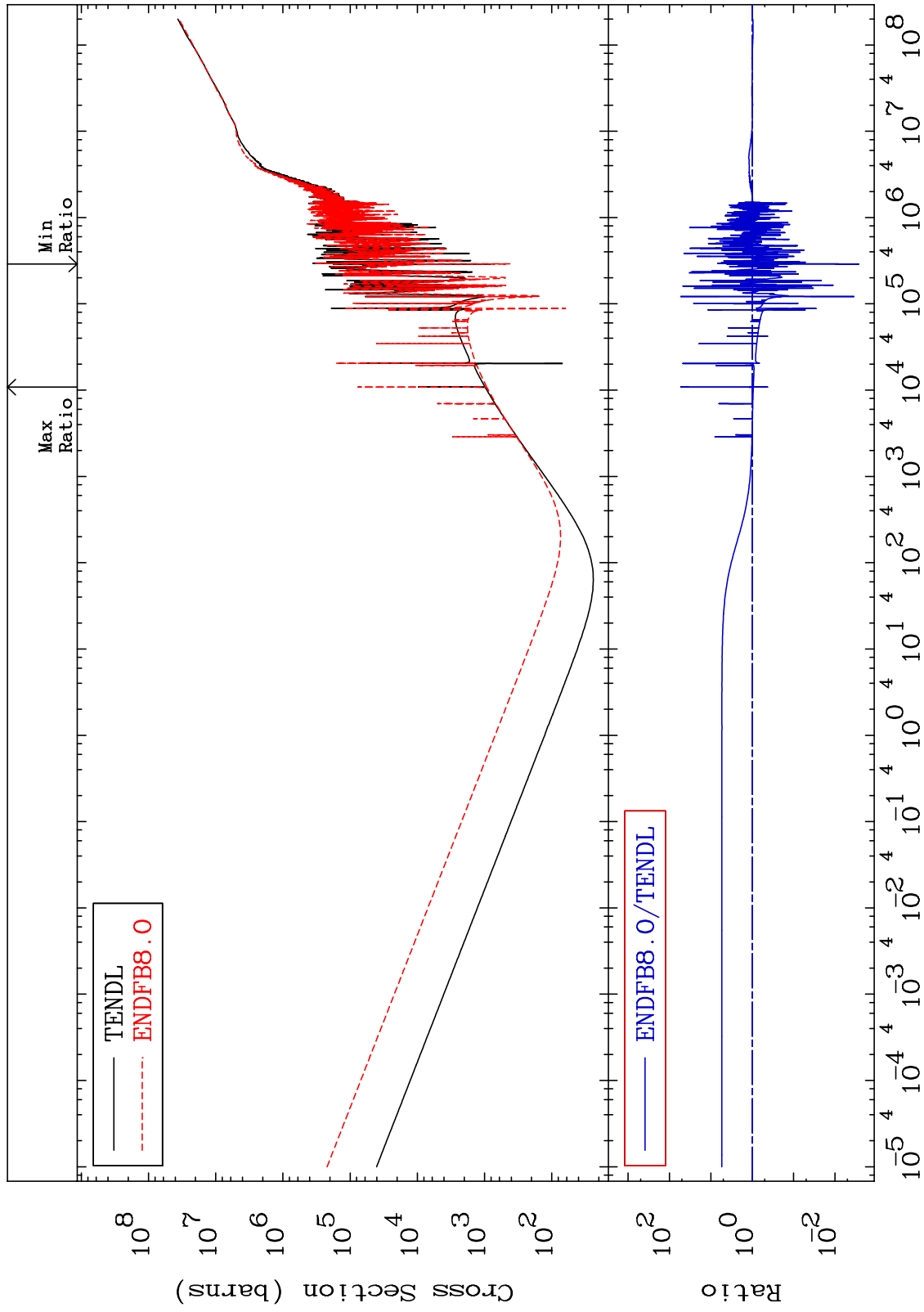
Incident Energy (eV)

20-Ca-40

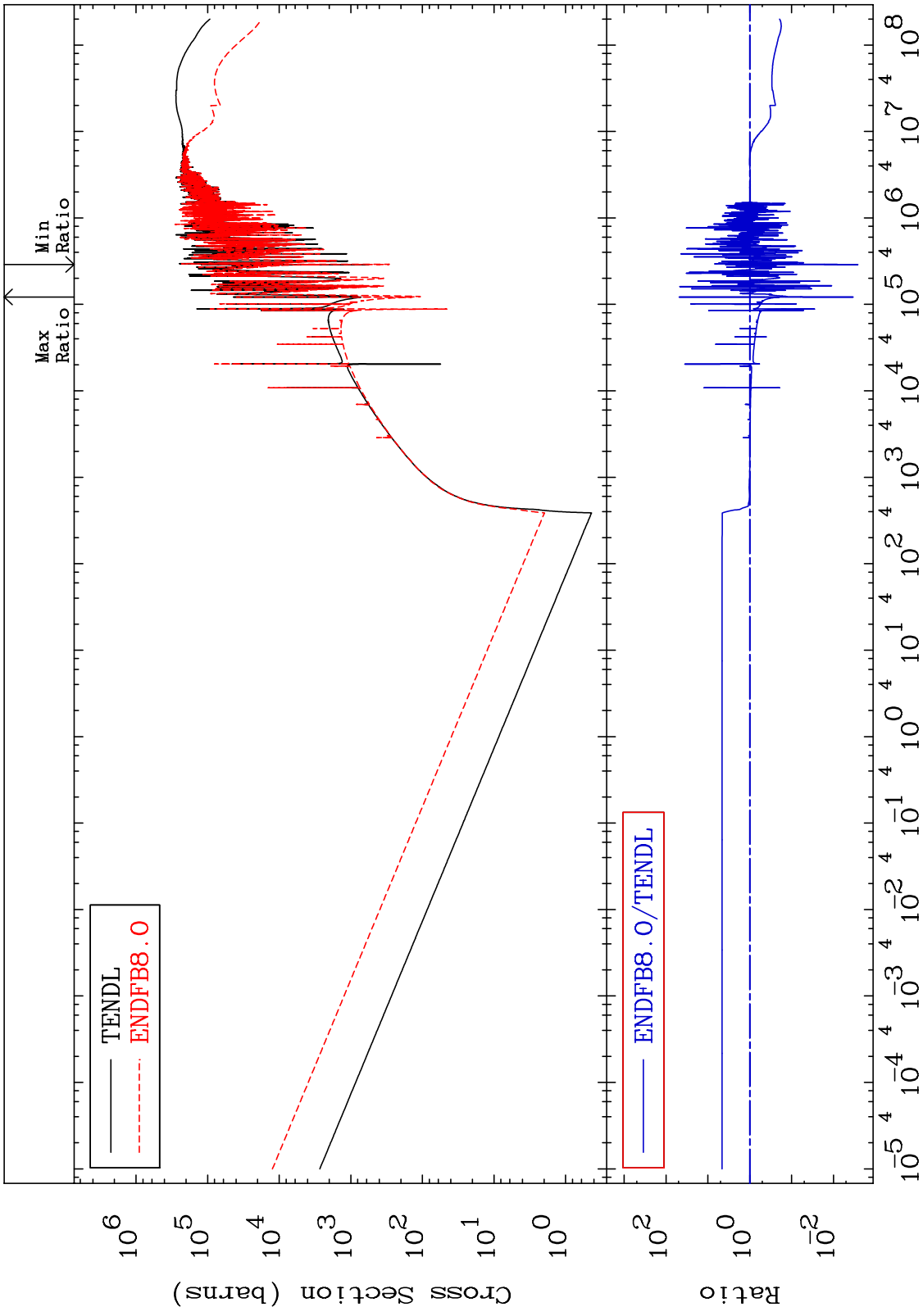
MAT 2025

Total kinematic kerma (high limit)  
Cross Section

20-Ca-40  
-99.74 To 5277. %

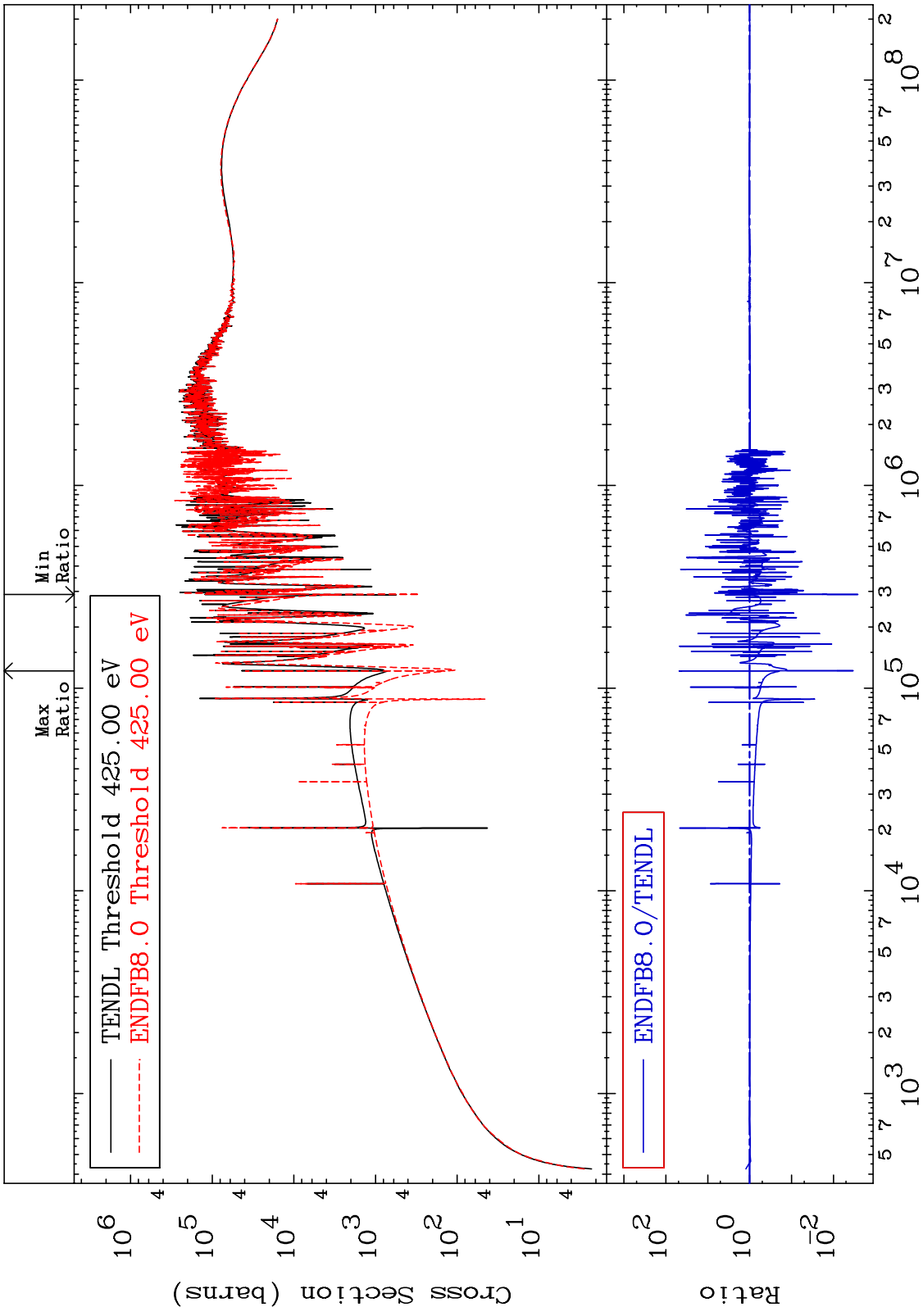


MAT 2025      Dpa total (eV-barns)      20-Ca-40  
 Cross Section      -99.74 To 4784. %



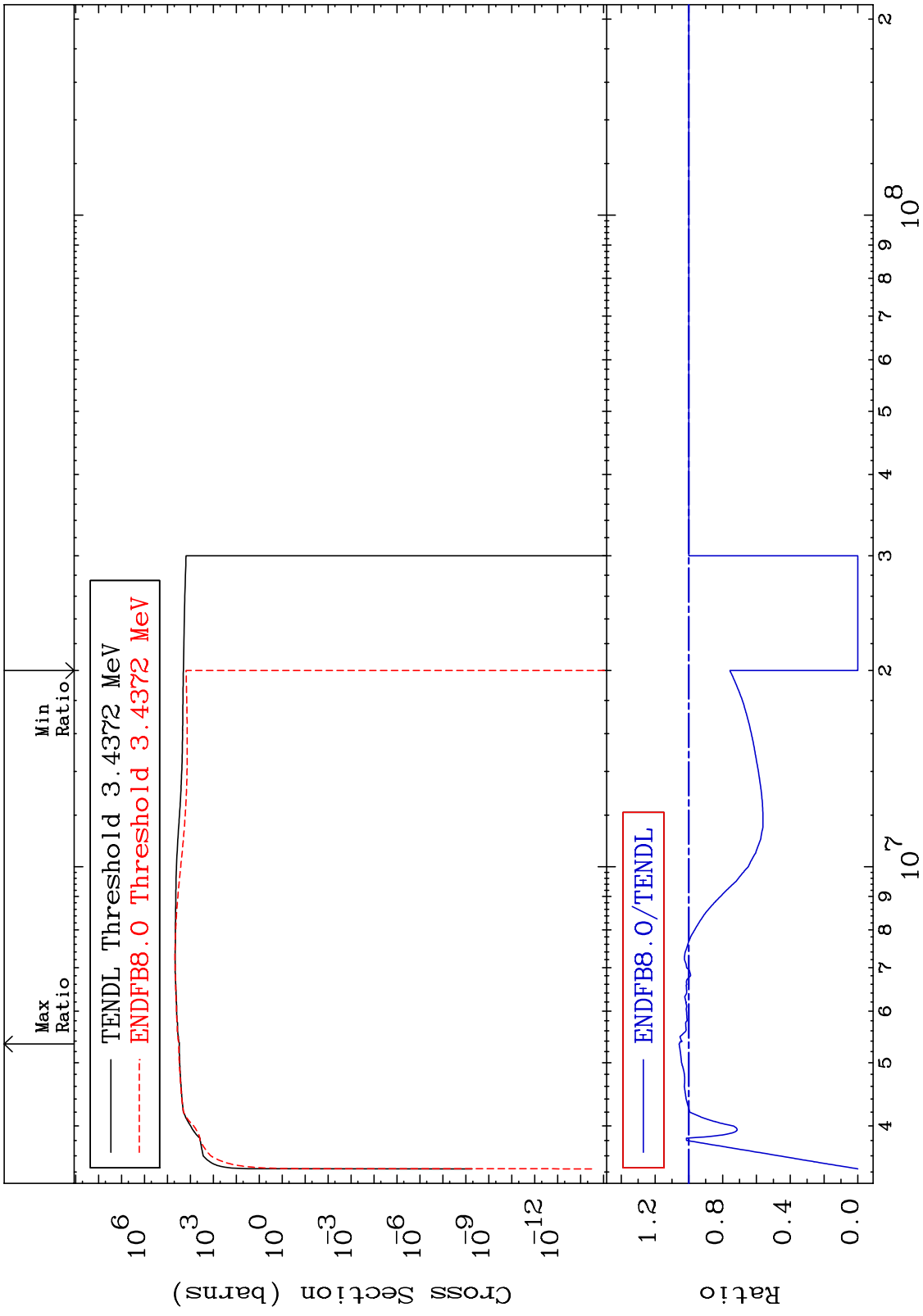


MAT 2025      Dpa elastic (mt2)      20-Ca-40  
 Cross Section      -99.74 To 4748. %



56      Incident Energy (eV)      20-Ca-40

MAT 2025 Dpa inelastic (mt51-91) 20-Ca-40  
 Cross Section -100.0 To 5.800 %



MAT 2025

Dpa disappearance (mt102 -120)  
Cross Section

20-Ca-40  
-100.0 To 9999. %

