

Program Complot
(Version 2018-1)

by

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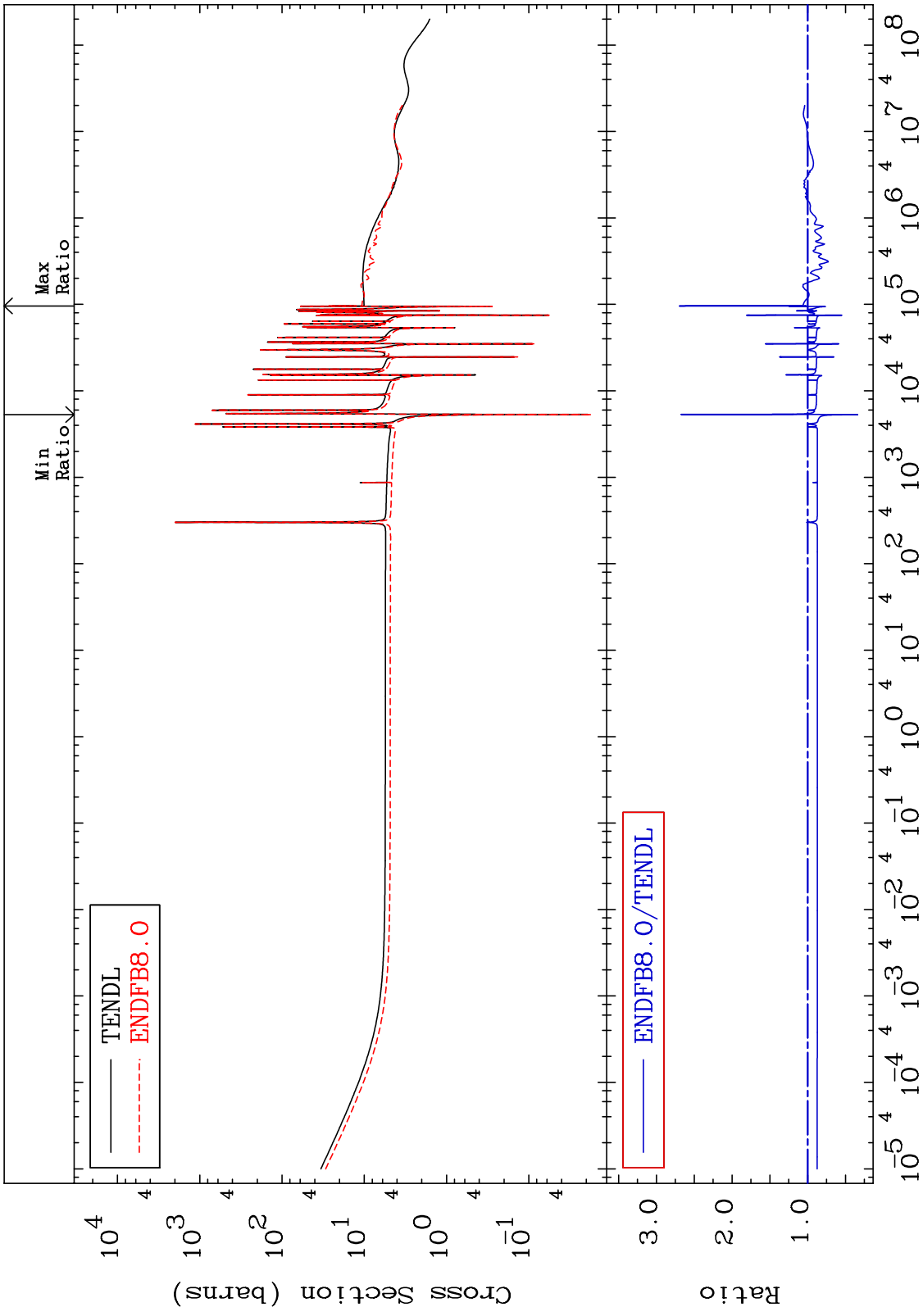
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Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4043 Total Cross Section 40-Zr-96 -66.31 To 170.1 %

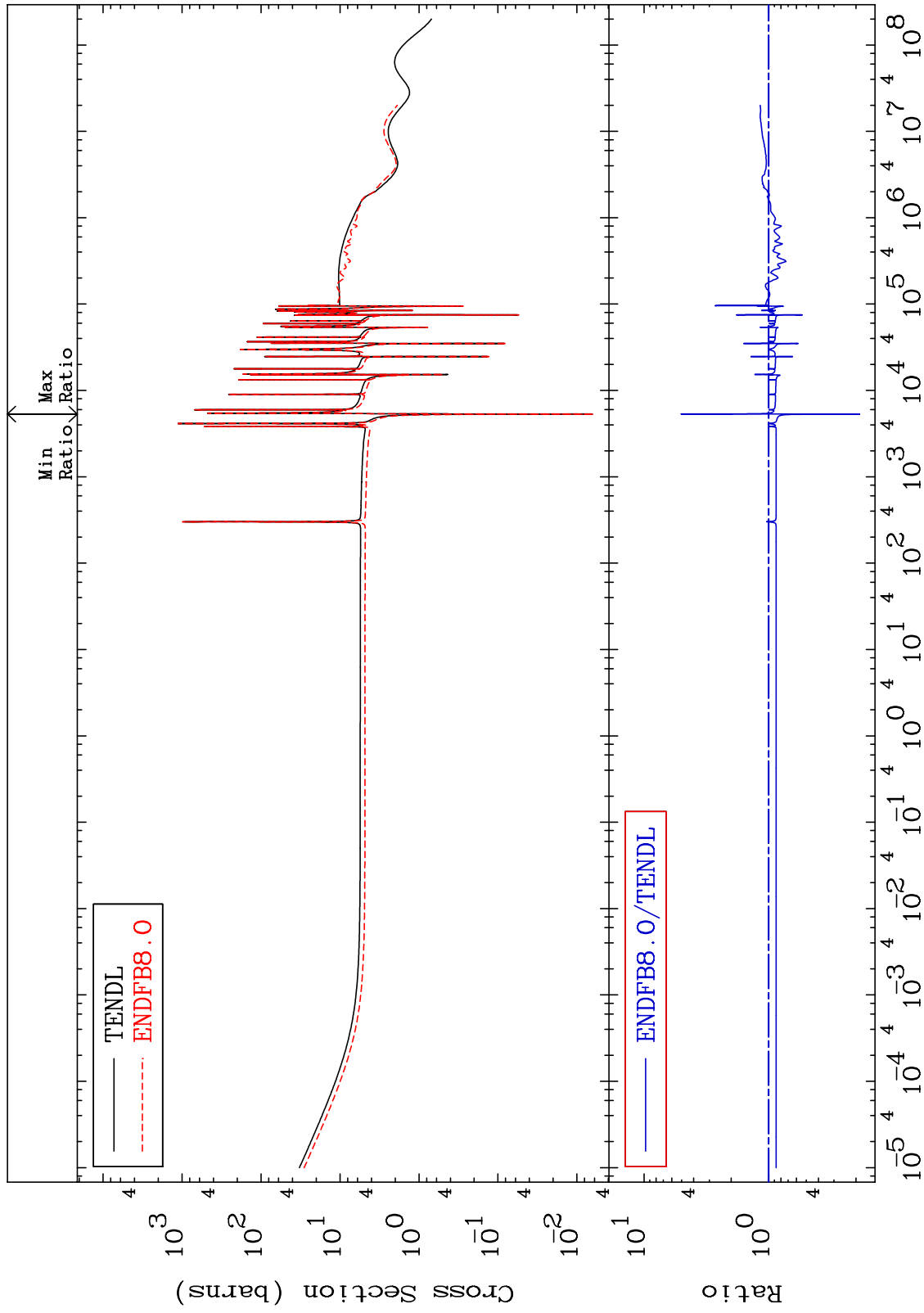


40-Zr-96

MAT 4043

Elastic
Cross Section

40-Zr-96
-81.36 To 403.0 %

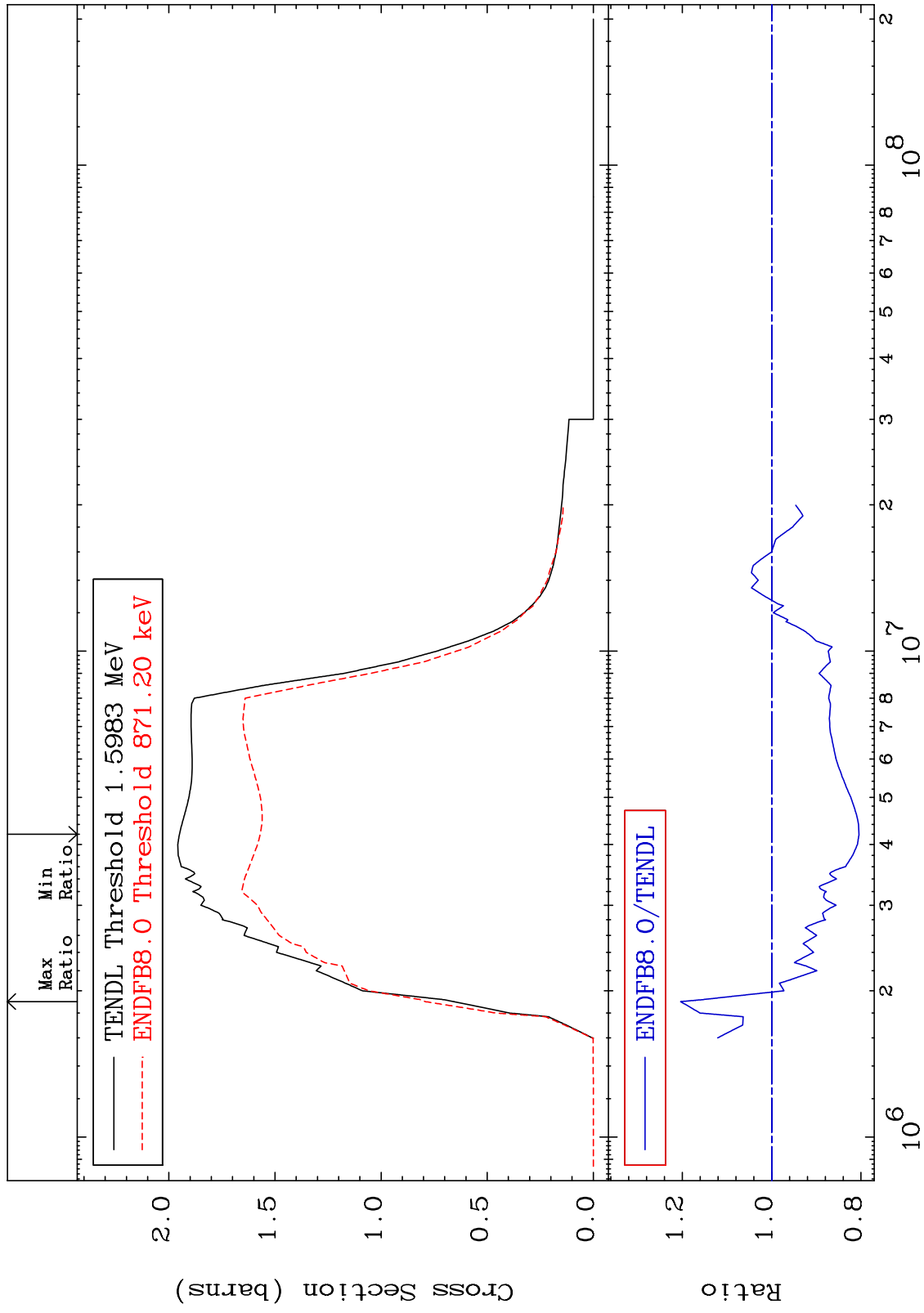


2

Incident Energy (eV)

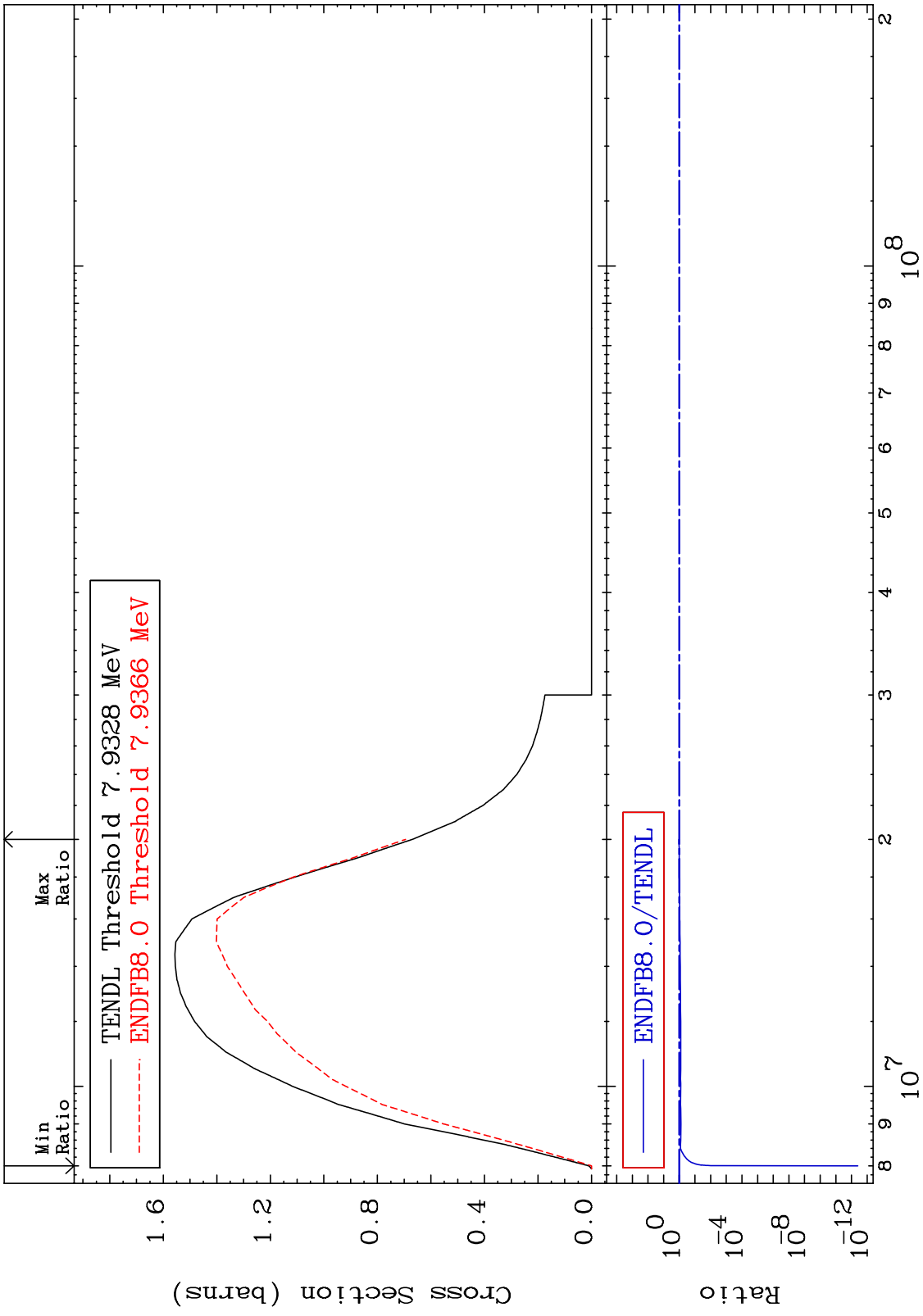
40-Zr-96

MAT 4043 Inelastic Cross Section 40-Zr-96 -19.55 To 20.39 %

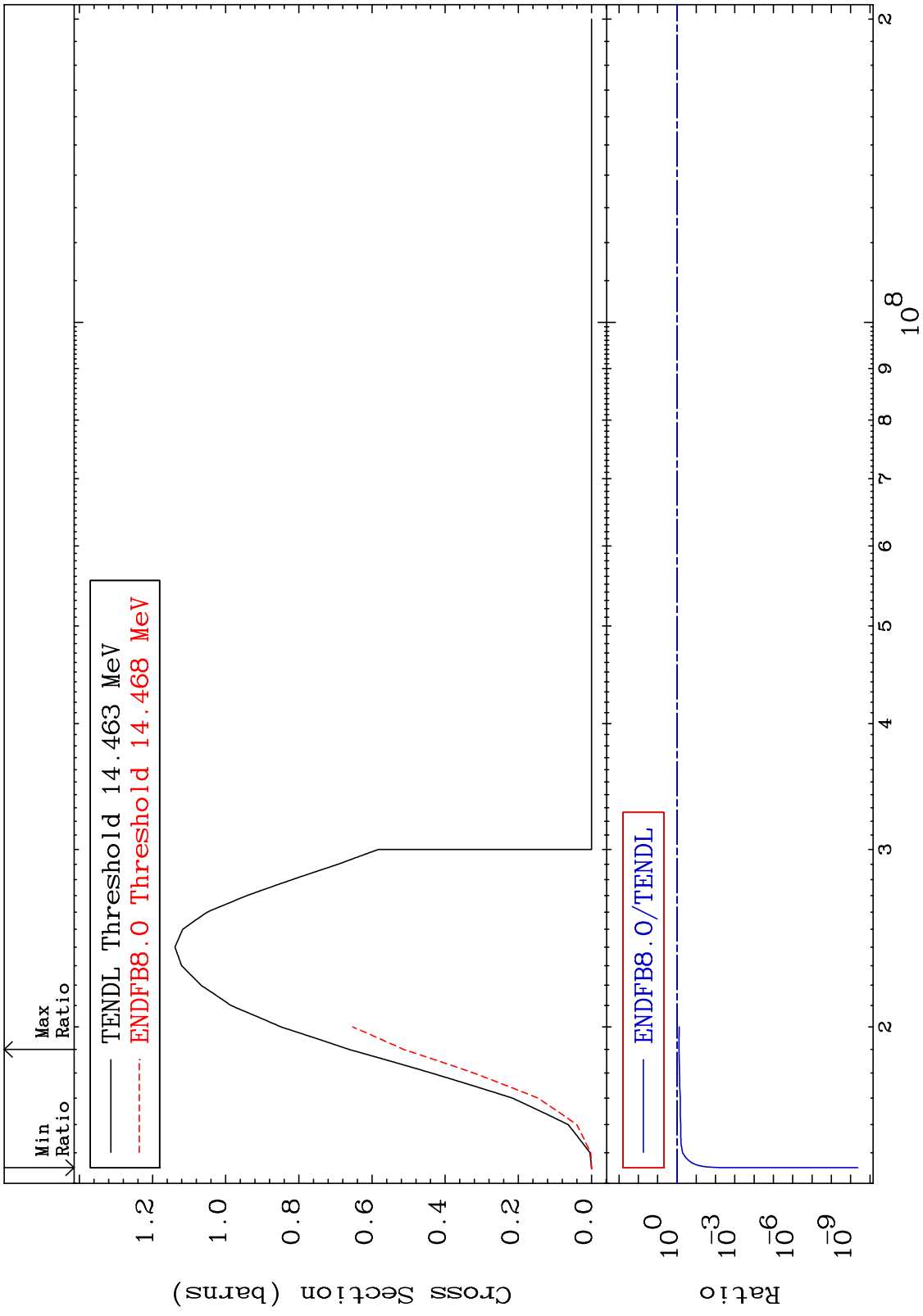


3

MAT 4043 (n,2n) Cross Section 40-Zr-96 -100.0 To 3.816 %



MAT 4043 $(n, 3n)$ Cross Section $^{40}\text{Zr-96}$
 -100.0 To -22.54%



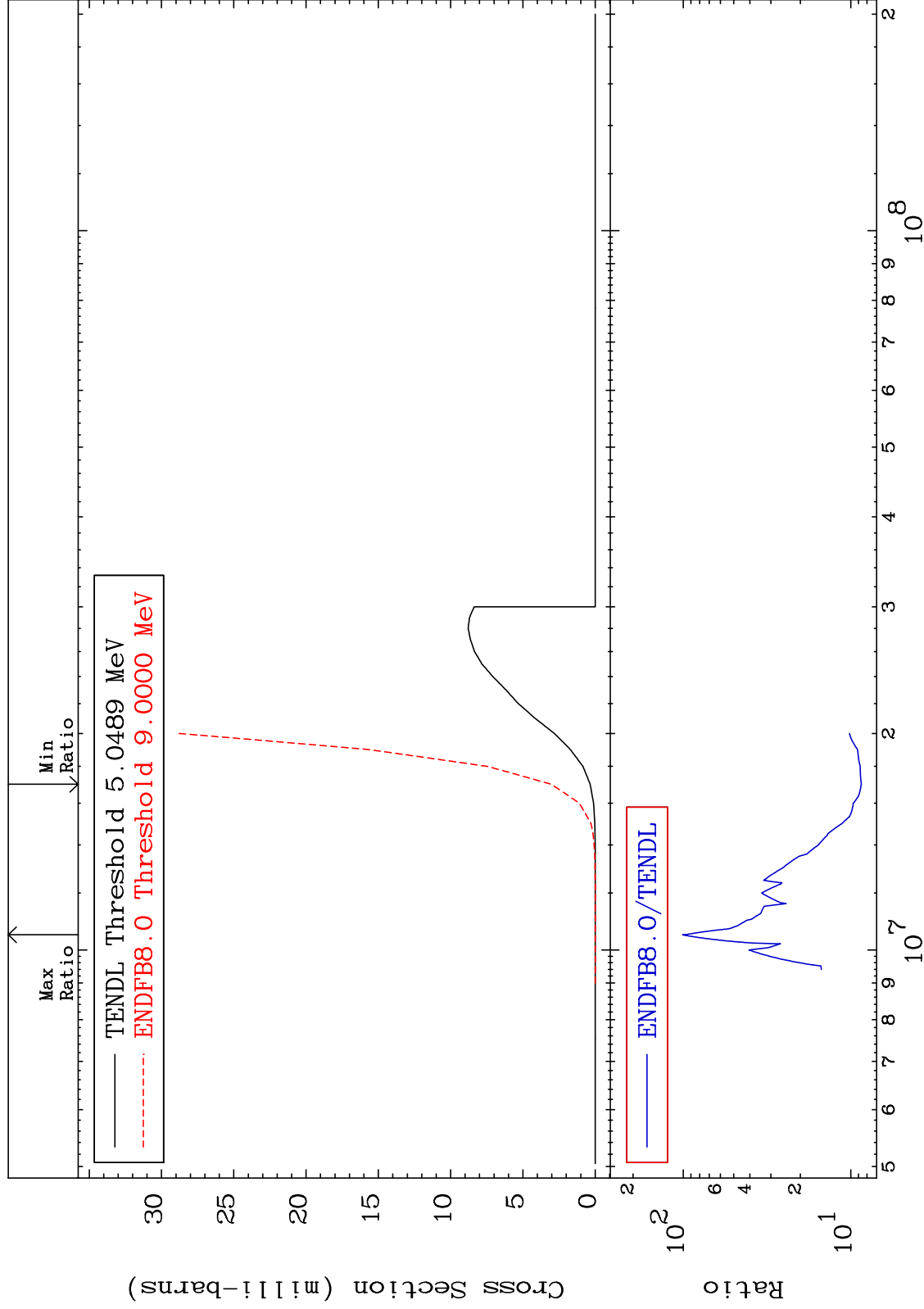
MAT 4043

(n, n') α

40-Zr-96

Cross Section

765.4 To 9992. %

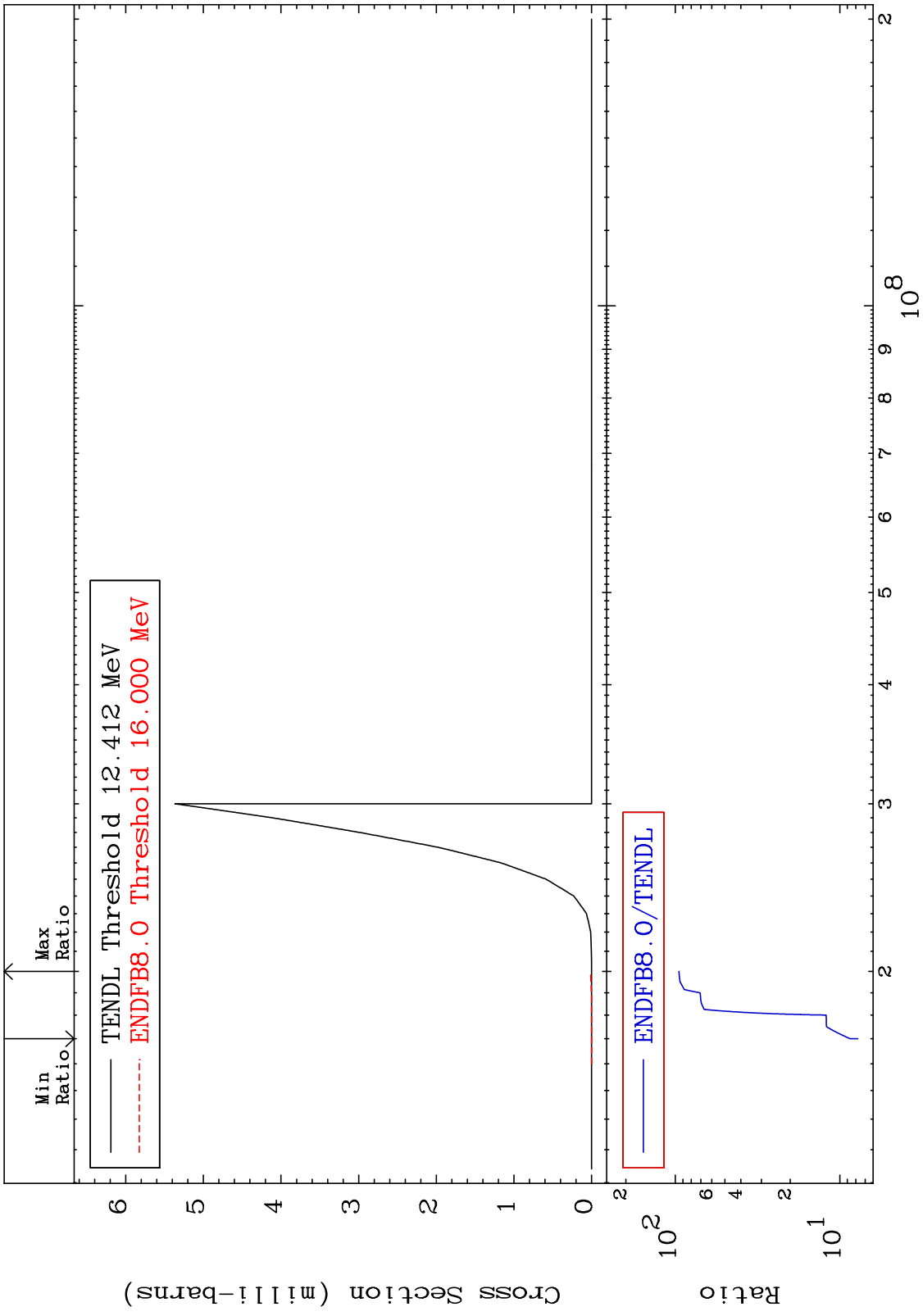


6

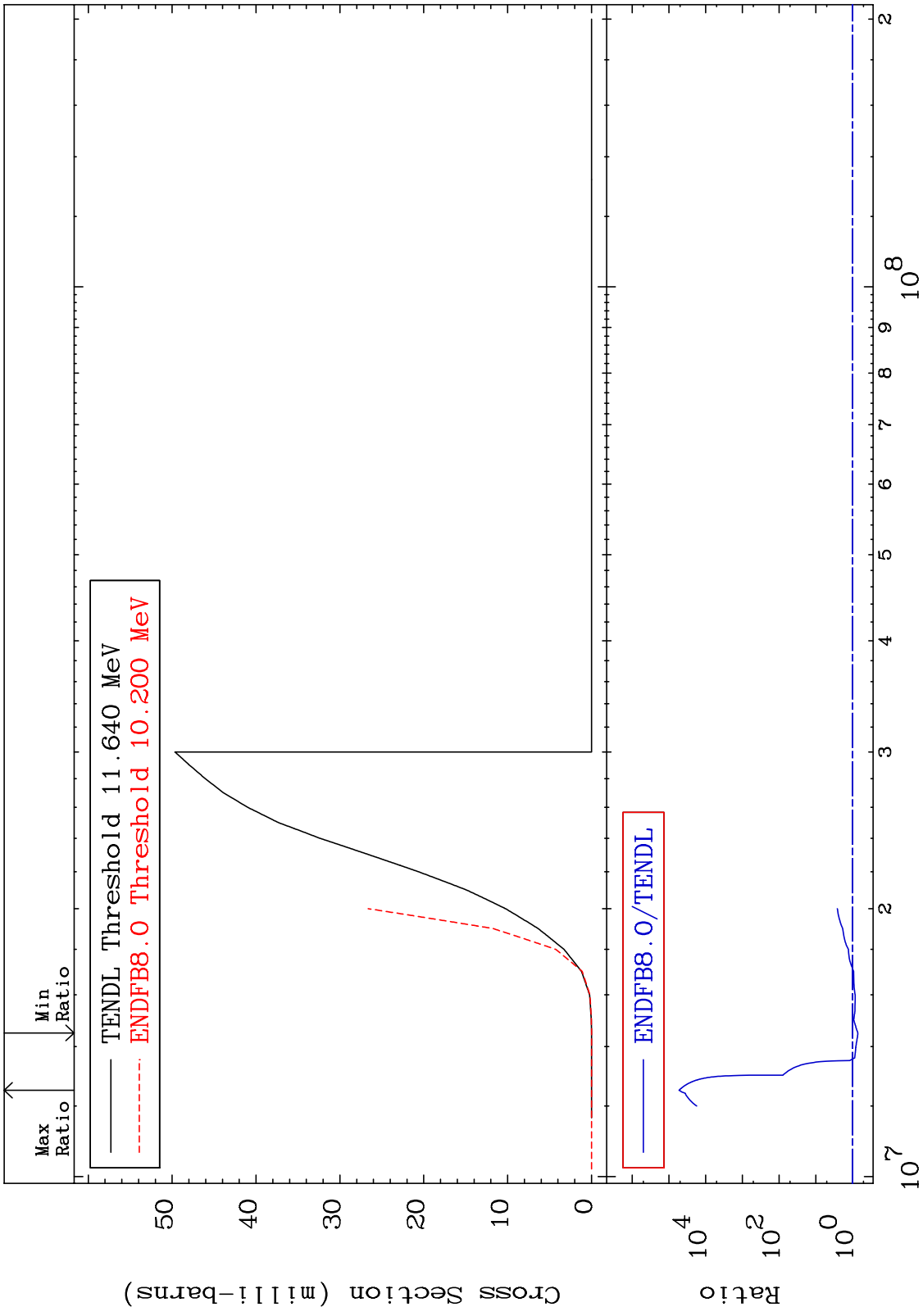
Incident Energy (eV)

40-Zr-96

MAT 4043 (n,2n) α 40-Zr-96
 Cross Section 677.1 To 9393. %

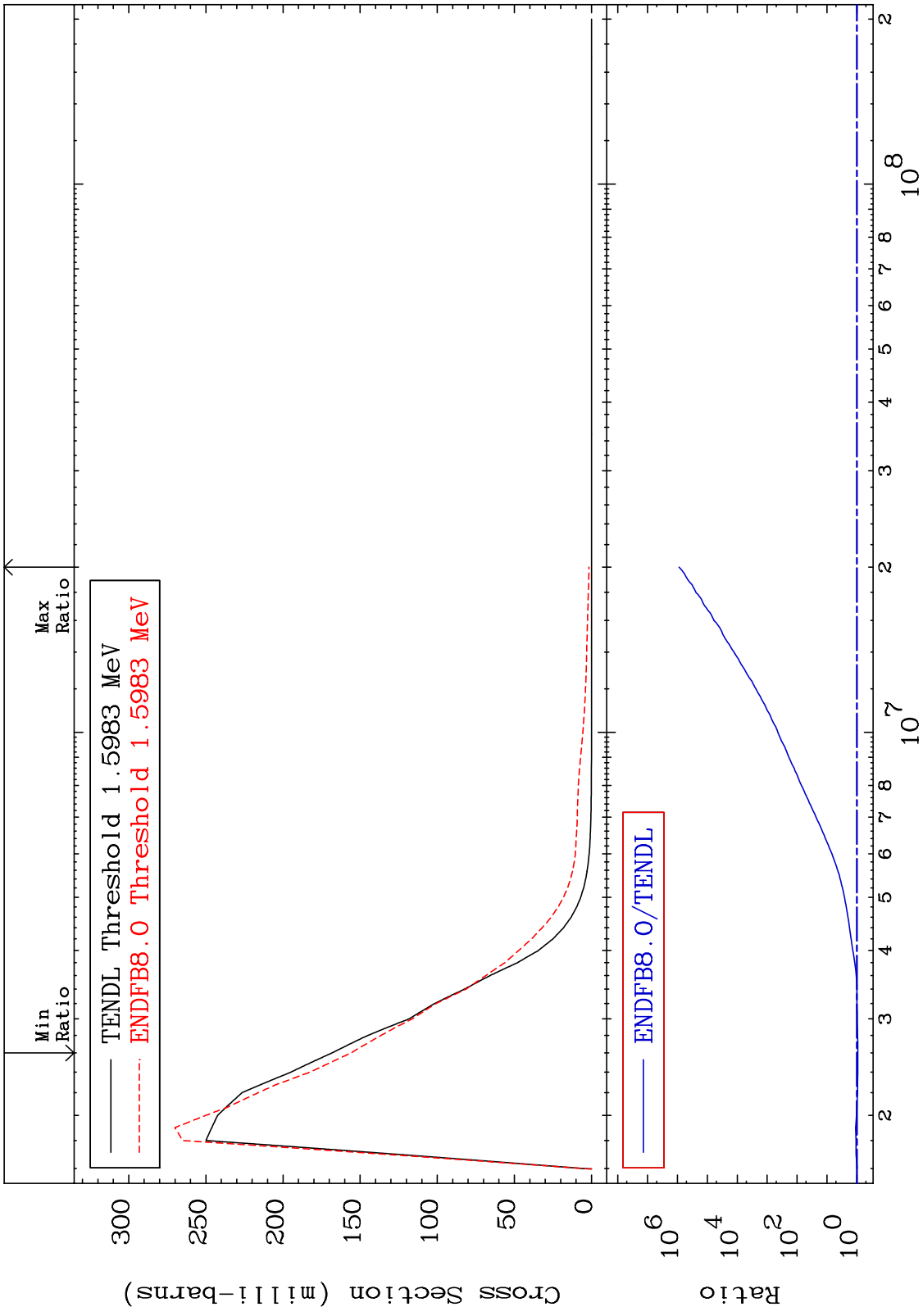


MAT 4043 (n,n') p 40-Zr-96
Cross Section -28.47 To 9999. %

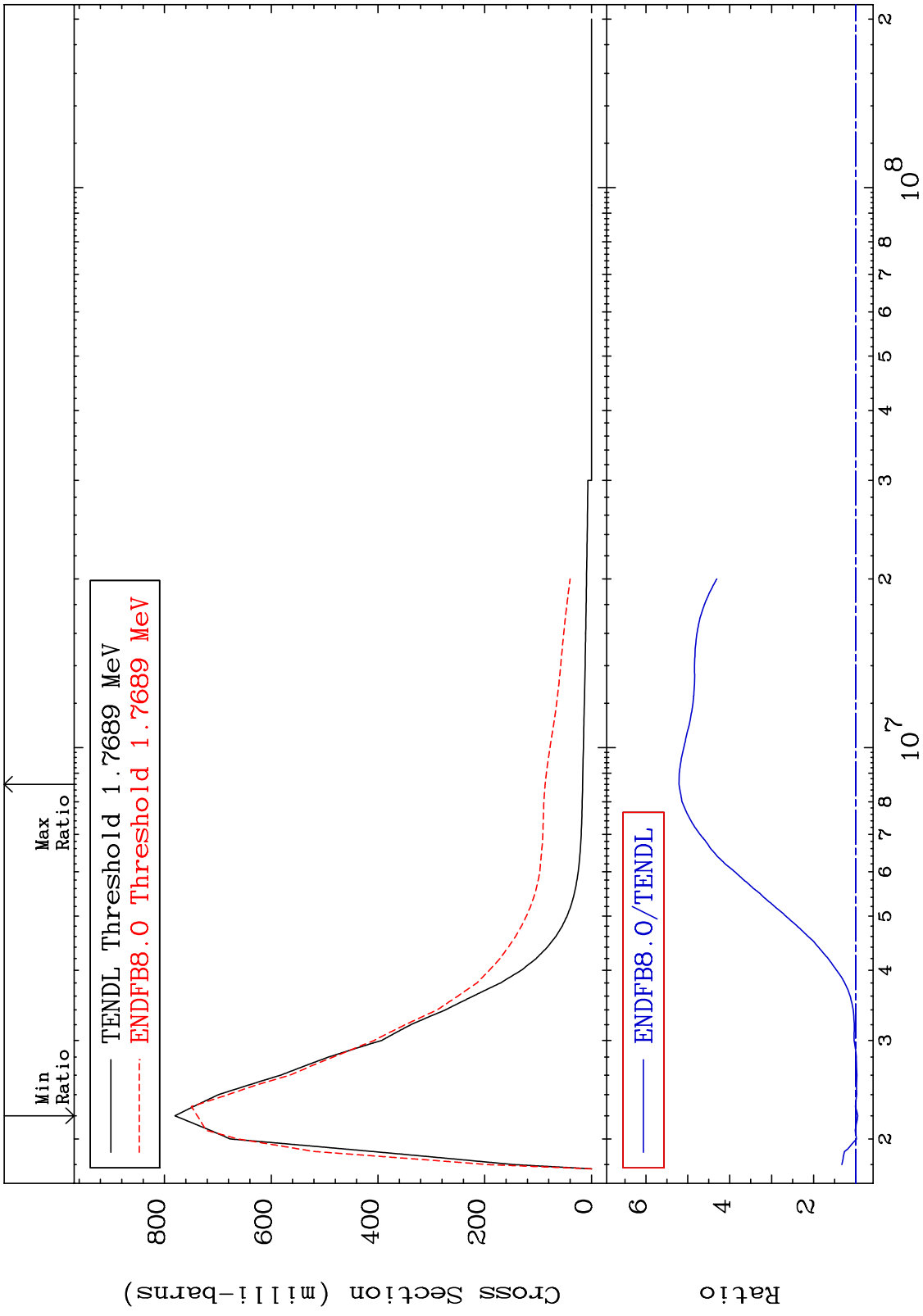


8 Incident Energy (eV) 40-Zr-96

MAT 4043 MT= 51 (n,n') Level Cross Section 40-Zr-96
 -7.306 To 9999. %

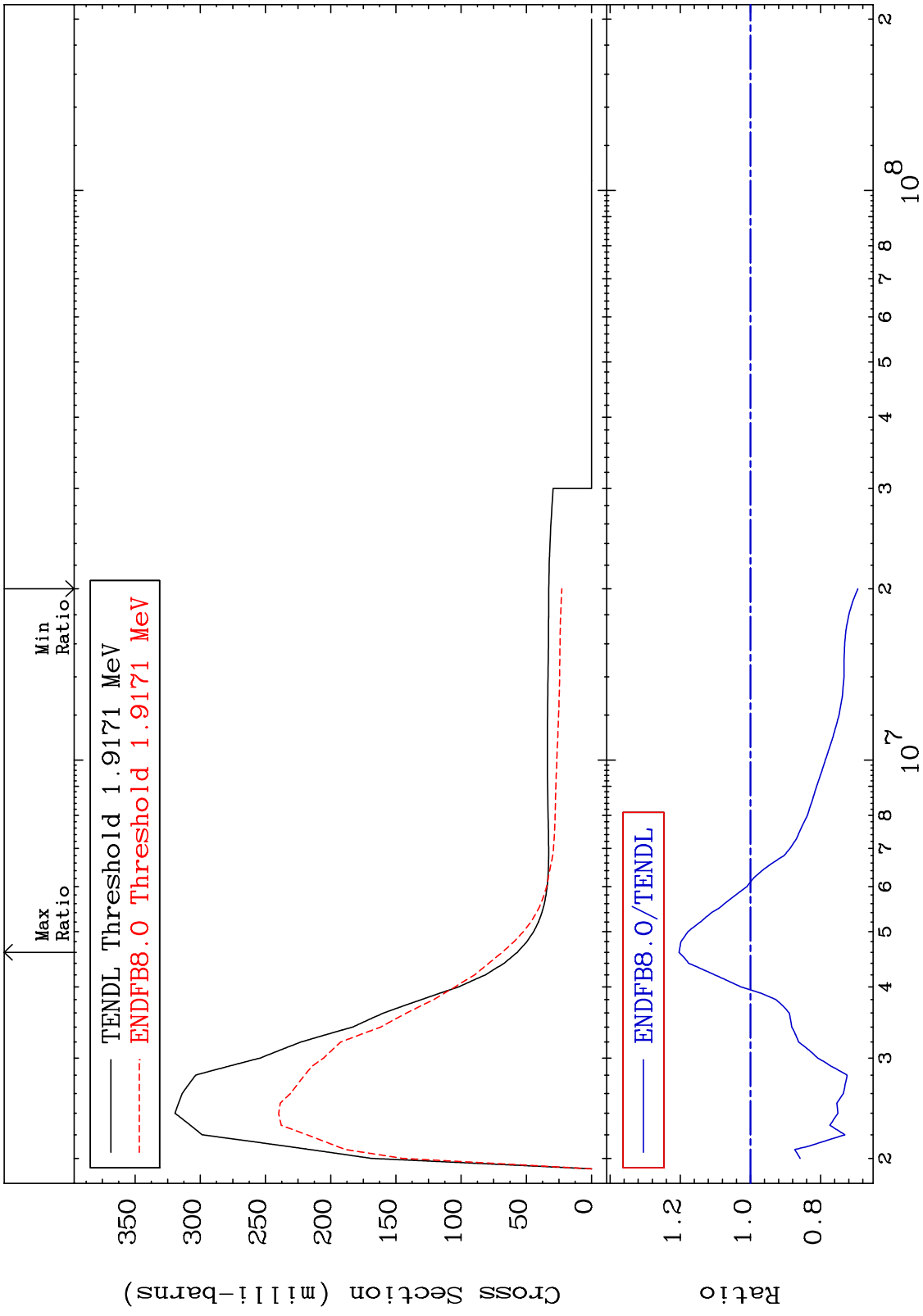


MAT 4043 MT= 52 (n,n') Level Cross Section 40-Zr-96
 -5.361 To 420.9 %

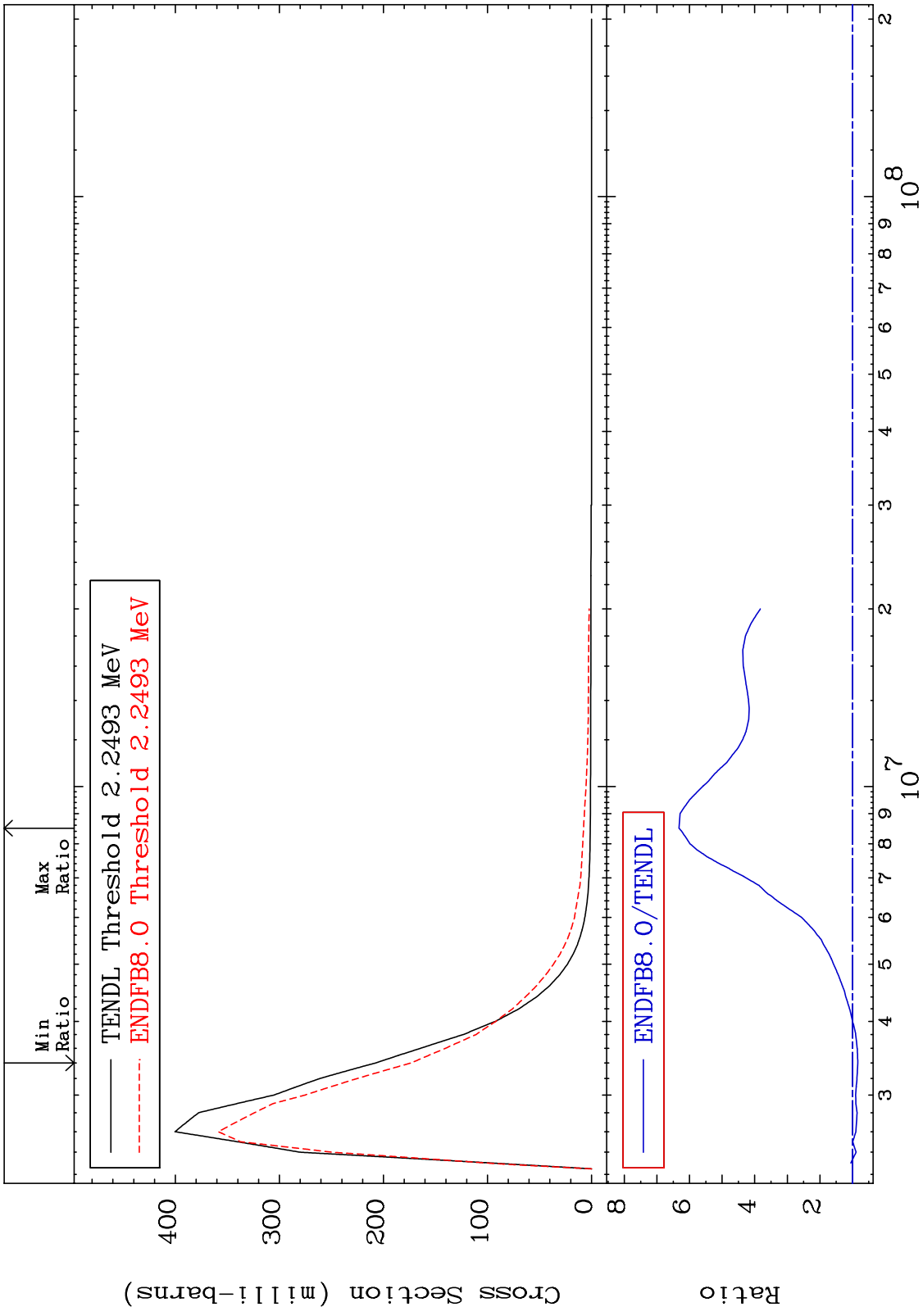


10 Incident Energy (eV) 40-Zr-96

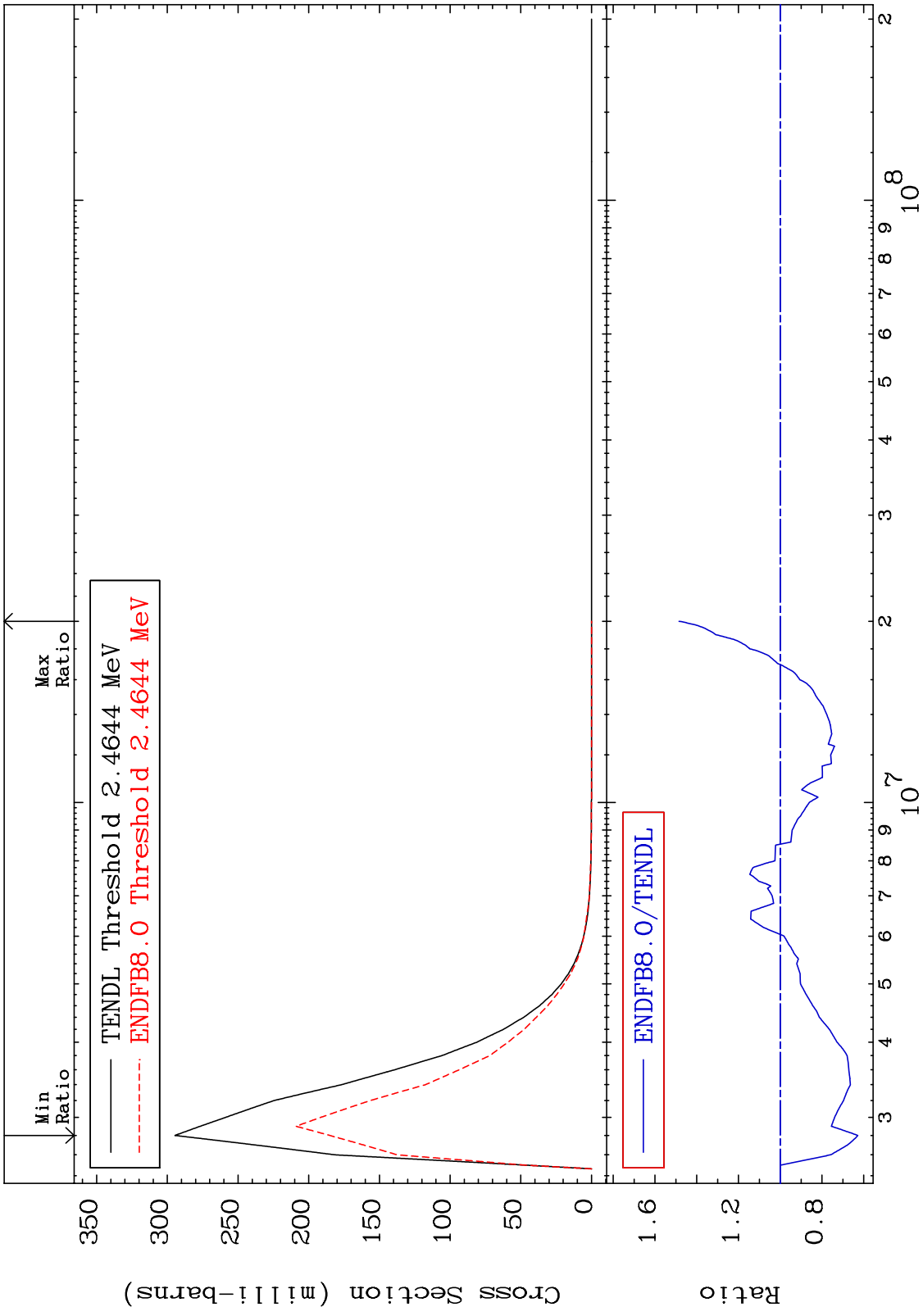
MAT 4043 MT= 53 (n,n') Level Cross Section 40-Zr-96
 -30.59 To 20.36 %



MAT 4043 MT= 54 (n,n') Level Cross Section -16.44 To 532.2 % 40-Zr-96



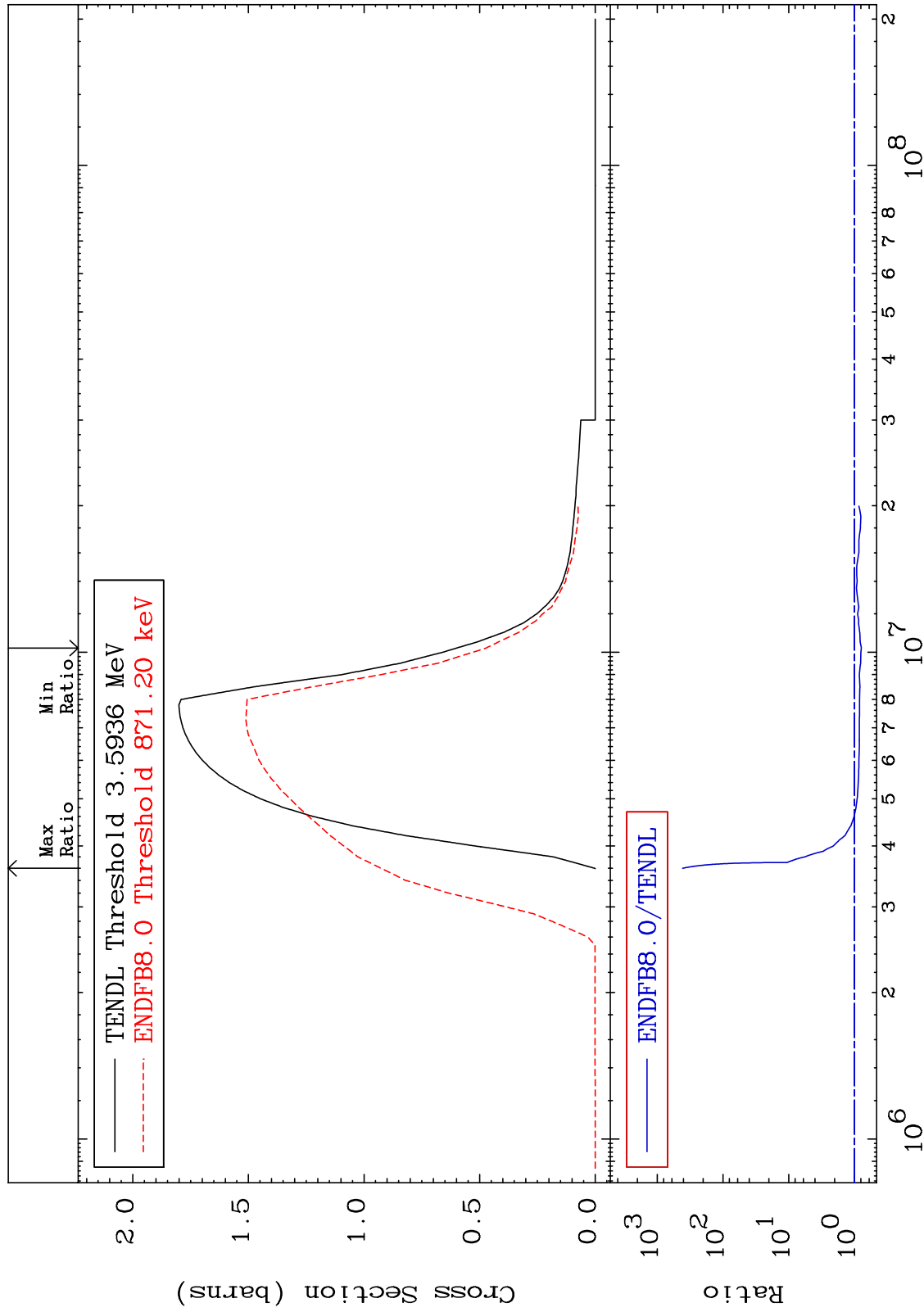
MAT 4043 MT= 55 (n,n') Level Cross Section -37.15 To 48.50 % 40-Zr-96



MAT 4043

(n, n') Continuum
Cross Section

40-Zr-96
-21.23 To 9999. %



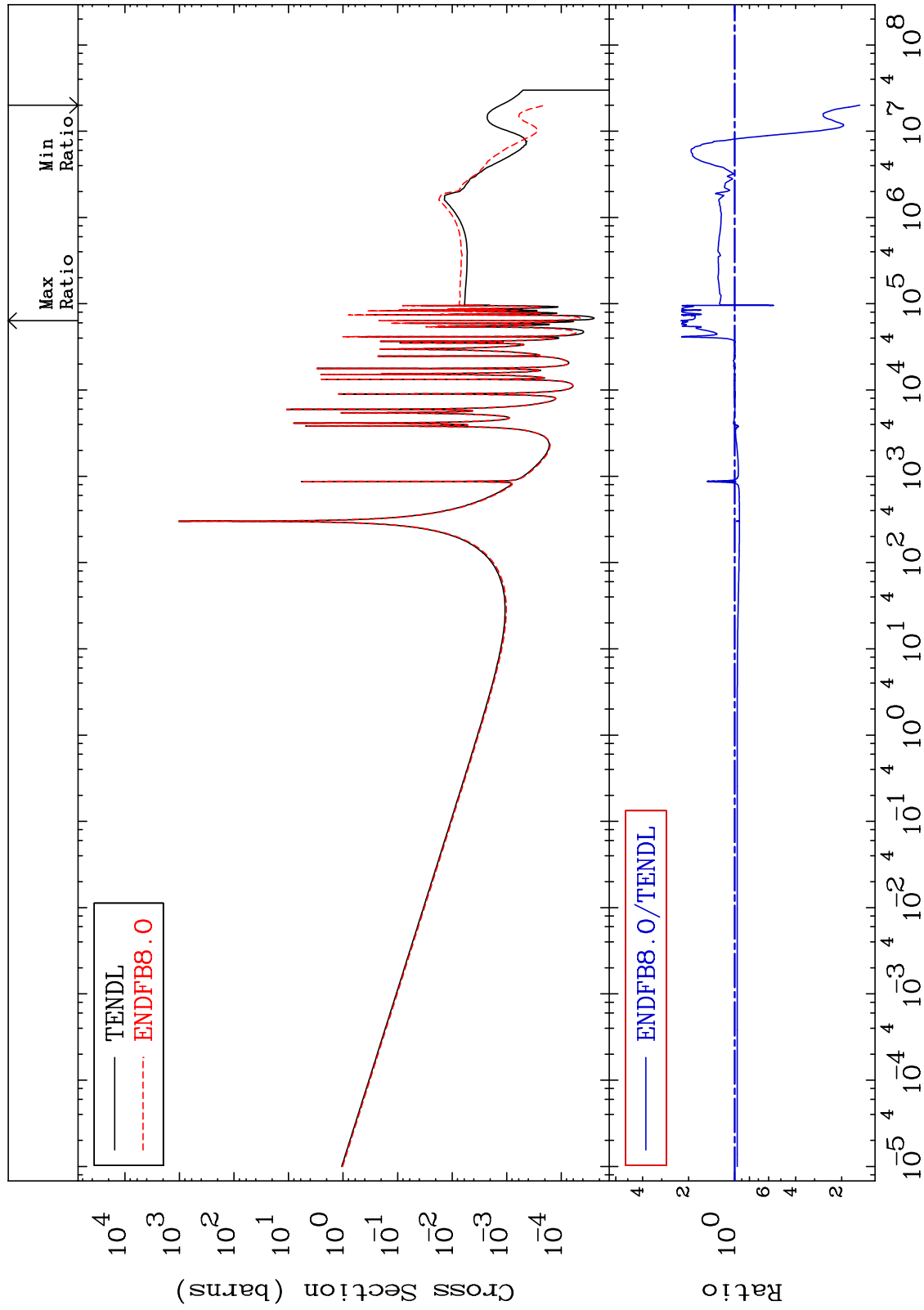
MAT 4043

(n, γ)

40-Zr-96

Cross Section

-84.80 To 122.9 %

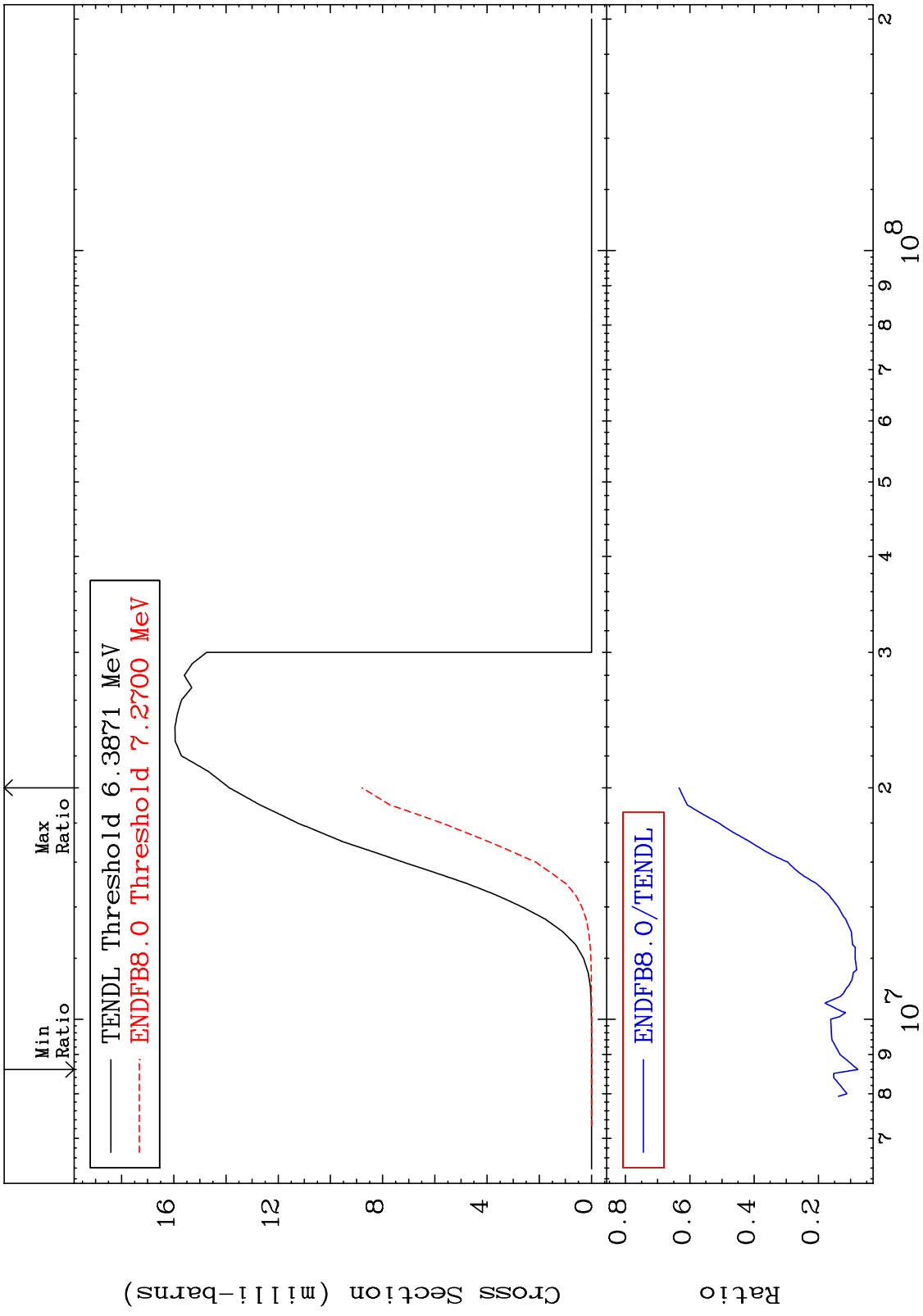


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Incident Energy (eV)

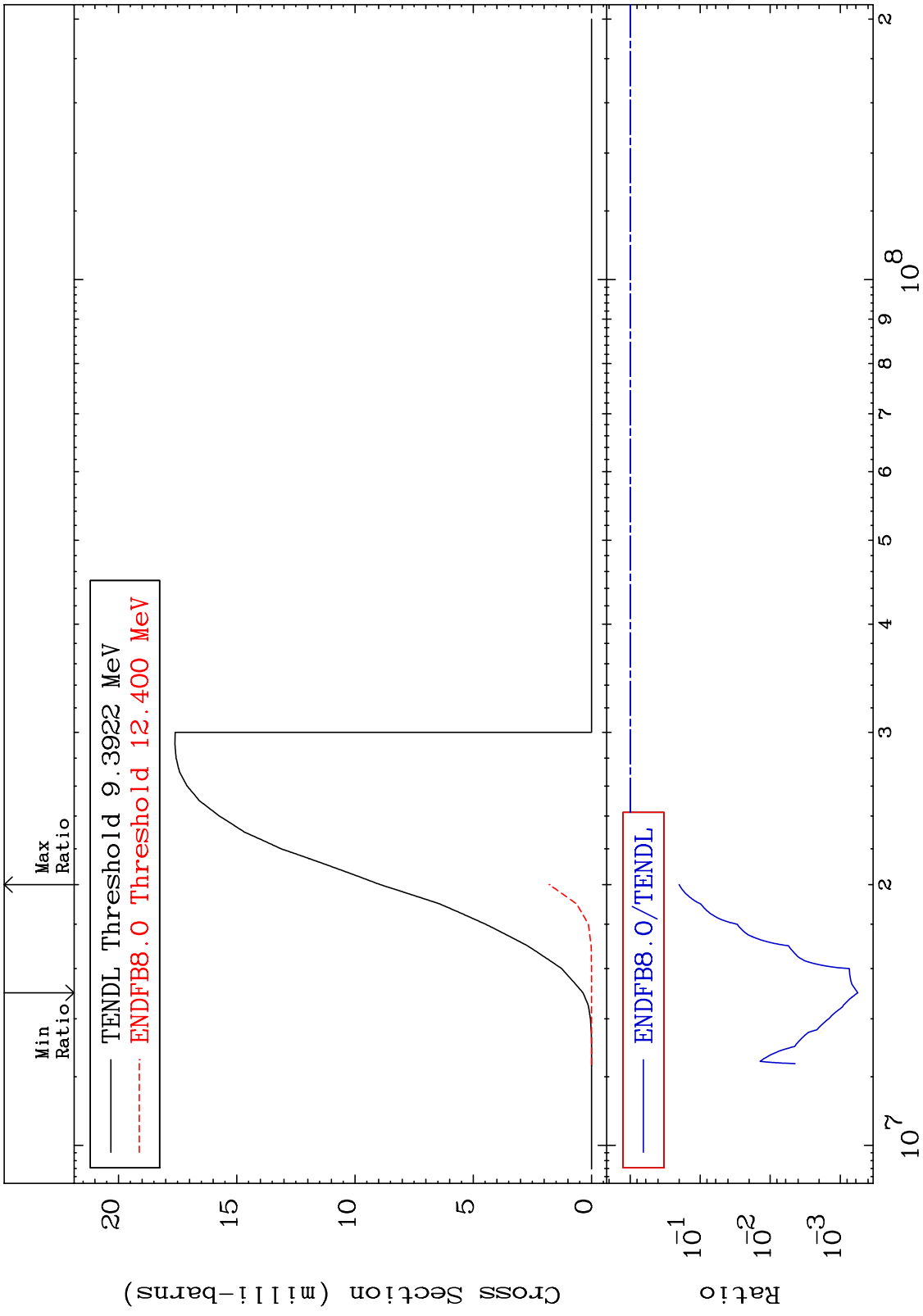
40-Zr-96

MAT 4043 (n,p) Cross Section 40-Zr-96 -92.23 To -36.65%



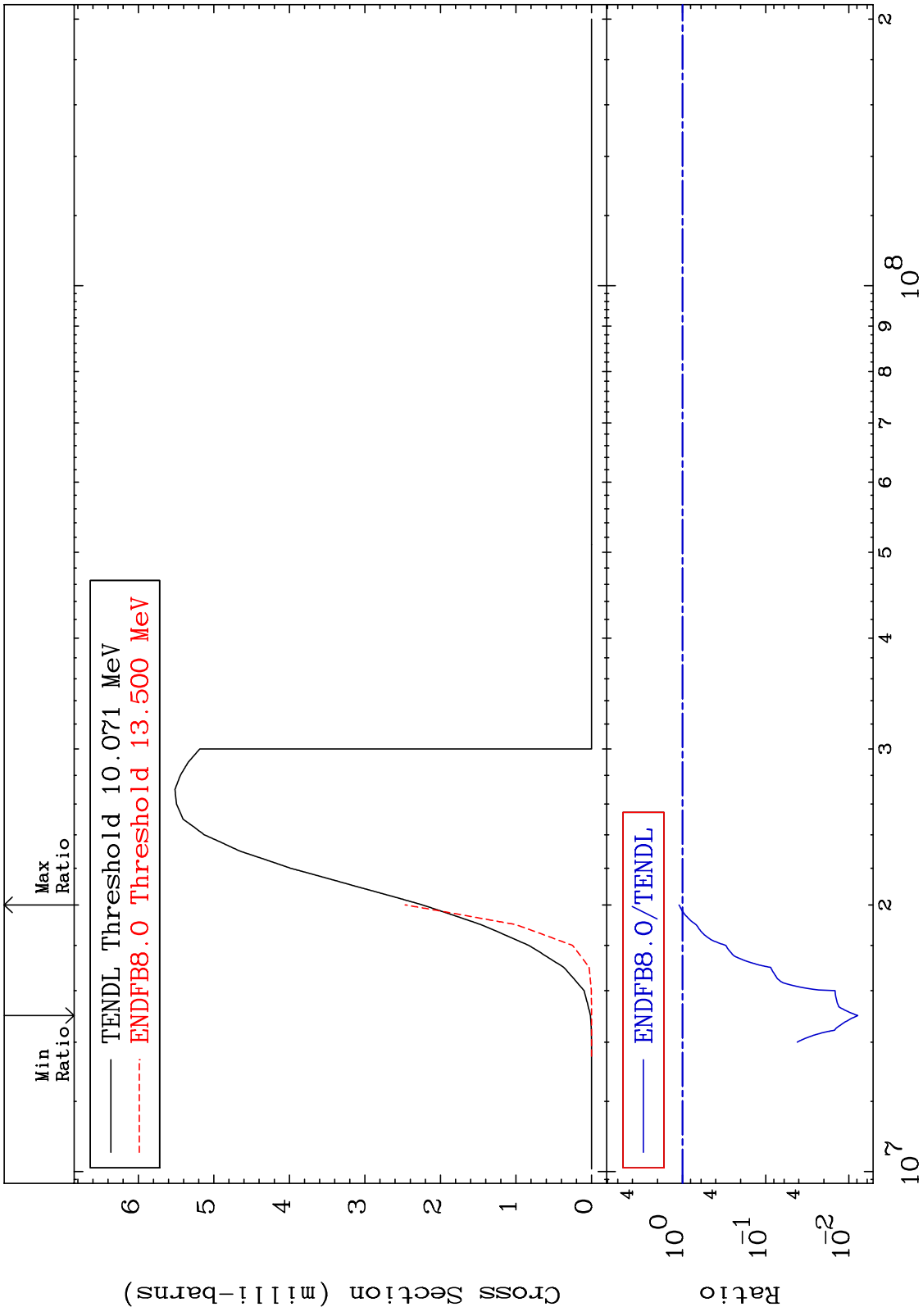
16 40-Zr-96 Incident Energy (eV)

MAT 4043 (n,d) Cross Section 40-Zr-96 -99.94 To -79.96%



17 40-Zr-96

MAT 4043 (n,t) Cross Section 40-Zr-96 -99.22 To 10.17 %



18 40-Zr-96

MAT 4043

(n, α)

40-Zr-96

Cross Section

-7.441 To 2695. %

Max Ratio
Min Ratio

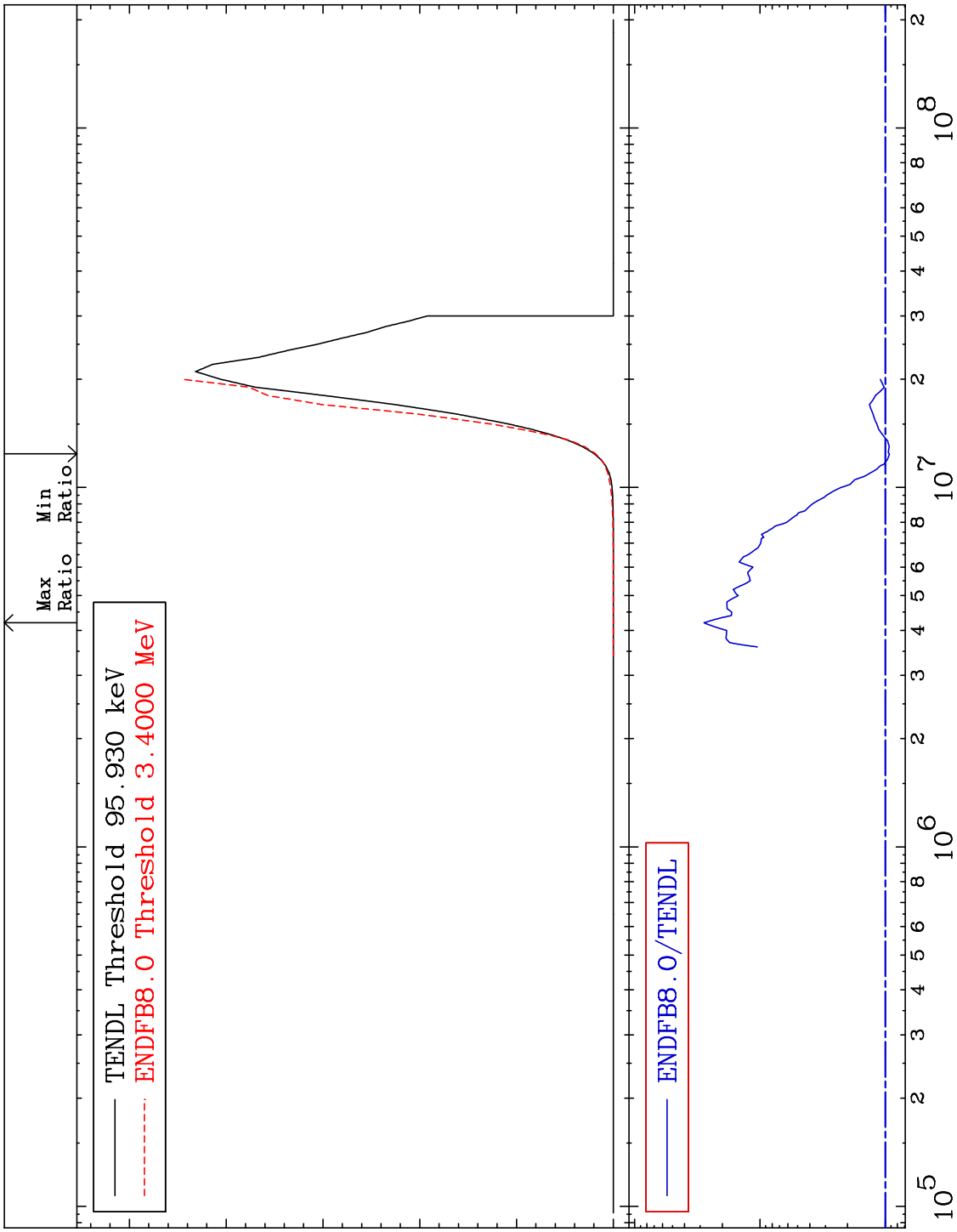
— TENDL Threshold 95.930 keV
- - - ENDFB8.0 Threshold 3.4000 MeV

Cross Section (milli-barns)

— ENDFB8.0/TENDL

Ratio

19



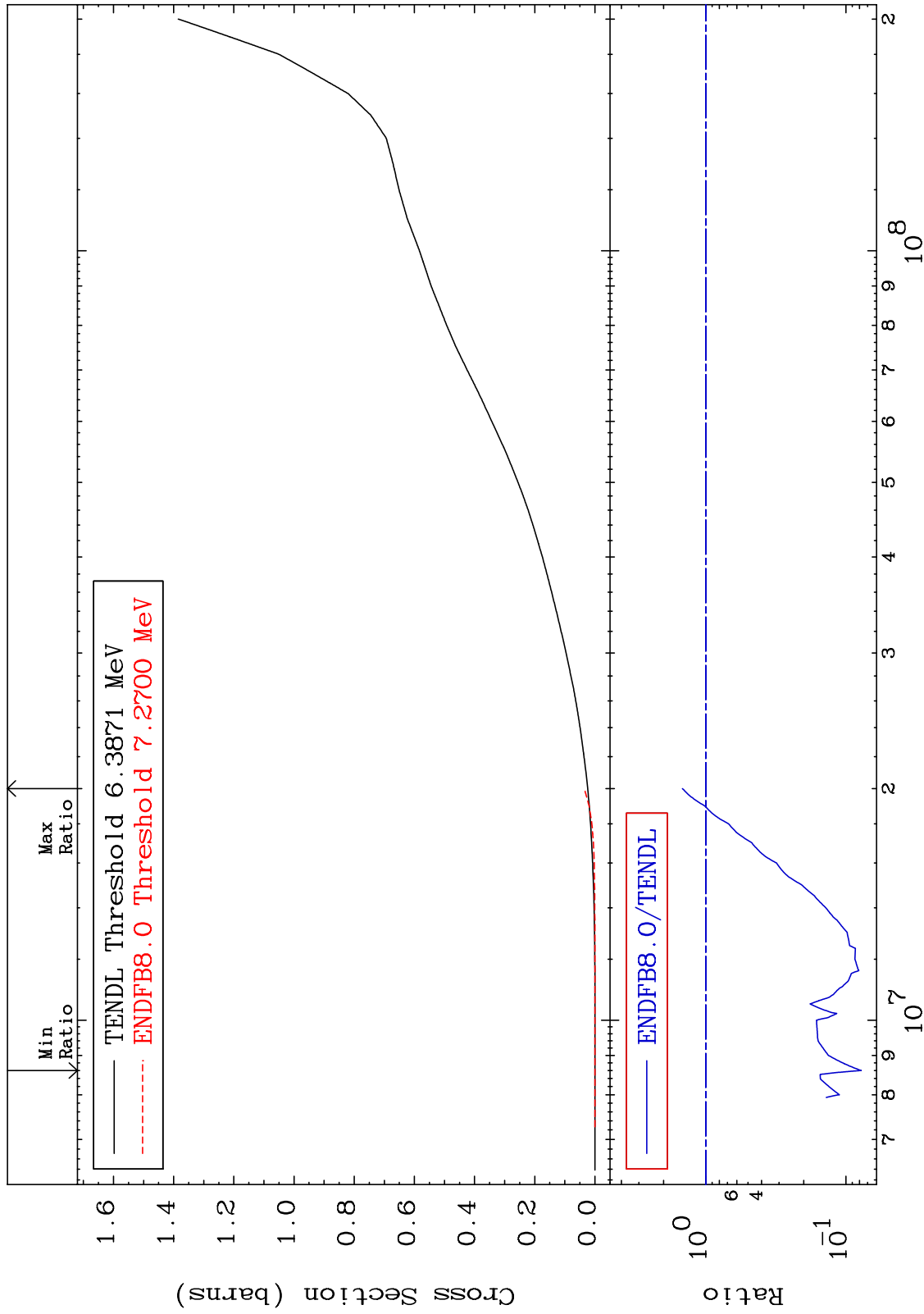
Incident Energy (eV)

40-Zr-96

MAT 4043

Hydrogen Production
Cross Section

40-Zr-96
-92.23 To 46.77 %



20

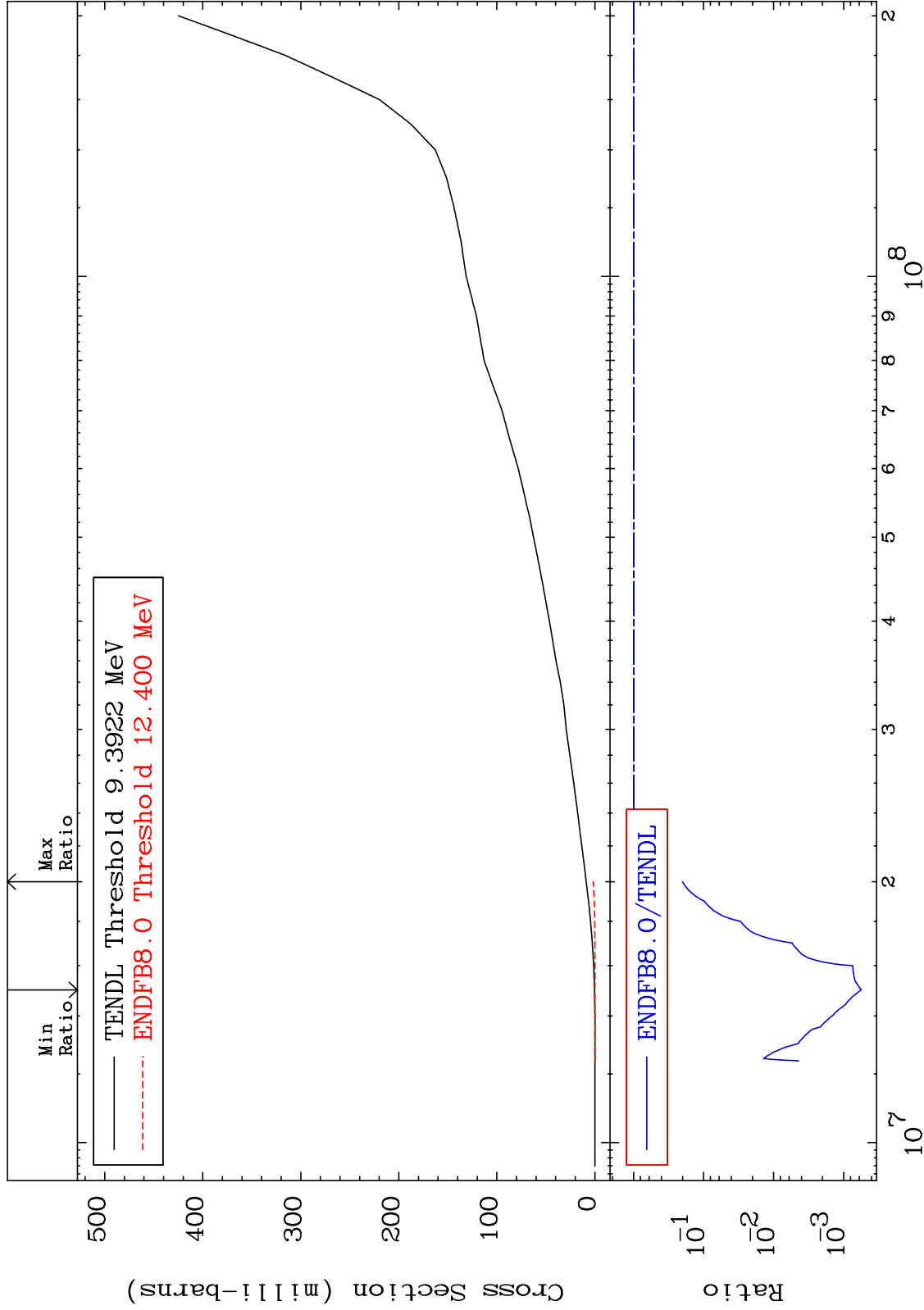
Incident Energy (eV)

40-Zr-96

MAT 4043

Deuterium Production Cross Section

40-Zr-96
-99.94 To -79.97%



21

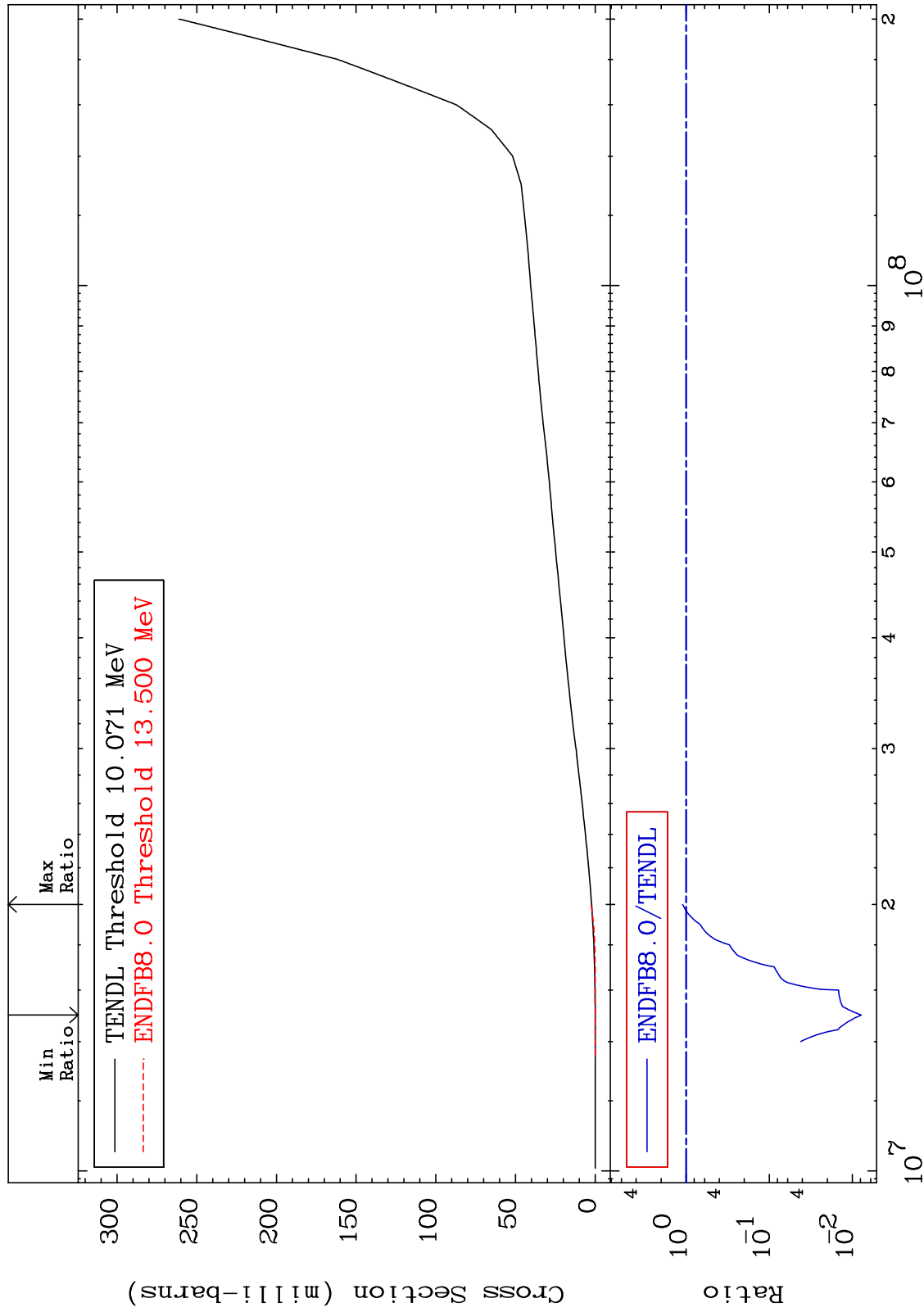
Incident Energy (eV)

40-Zr-96

MAT 4043

Tritium Production
Cross Section

40-Zr-96
-99.22 To 10.16 %

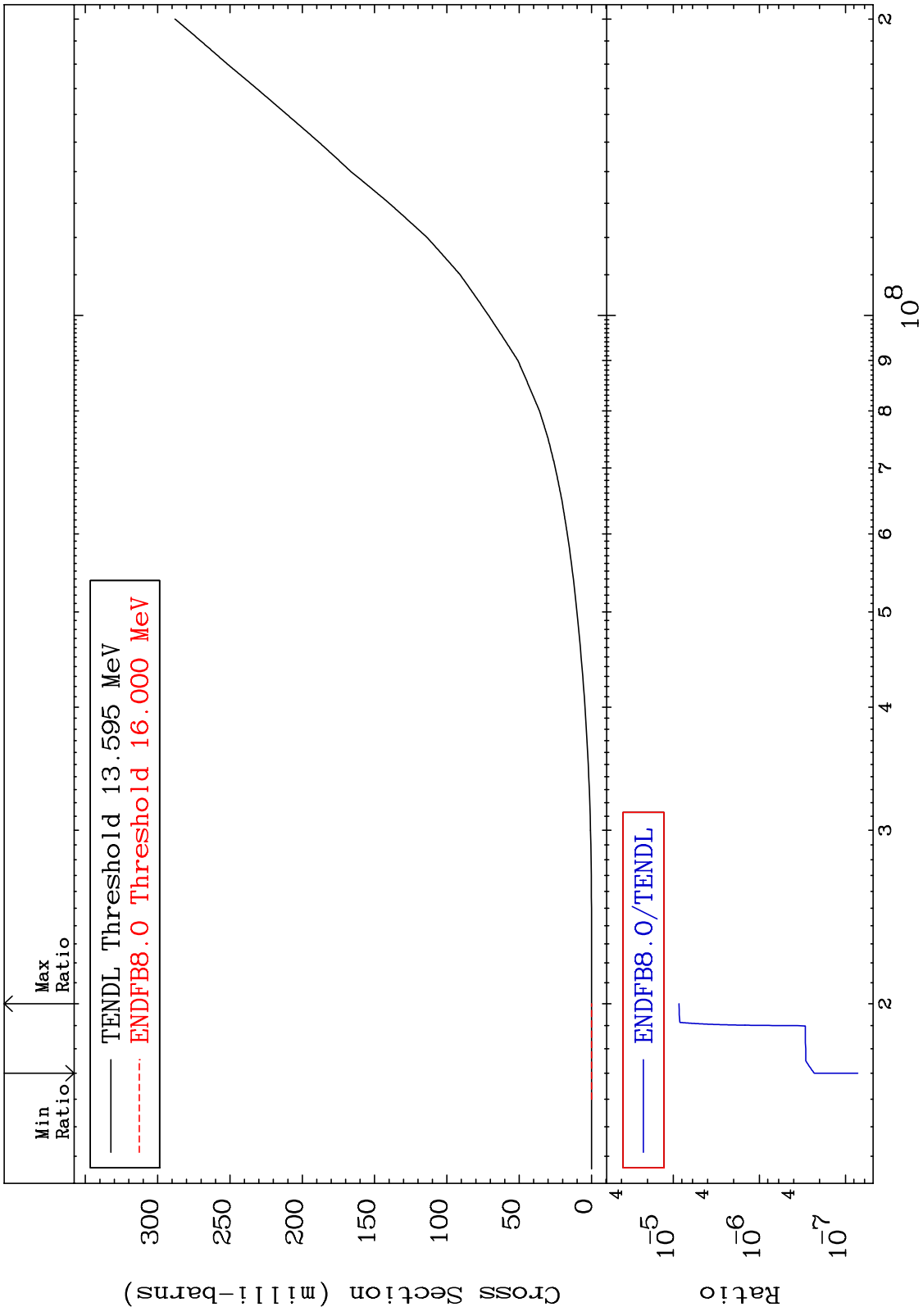


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Incident Energy (eV)

40-Zr-96

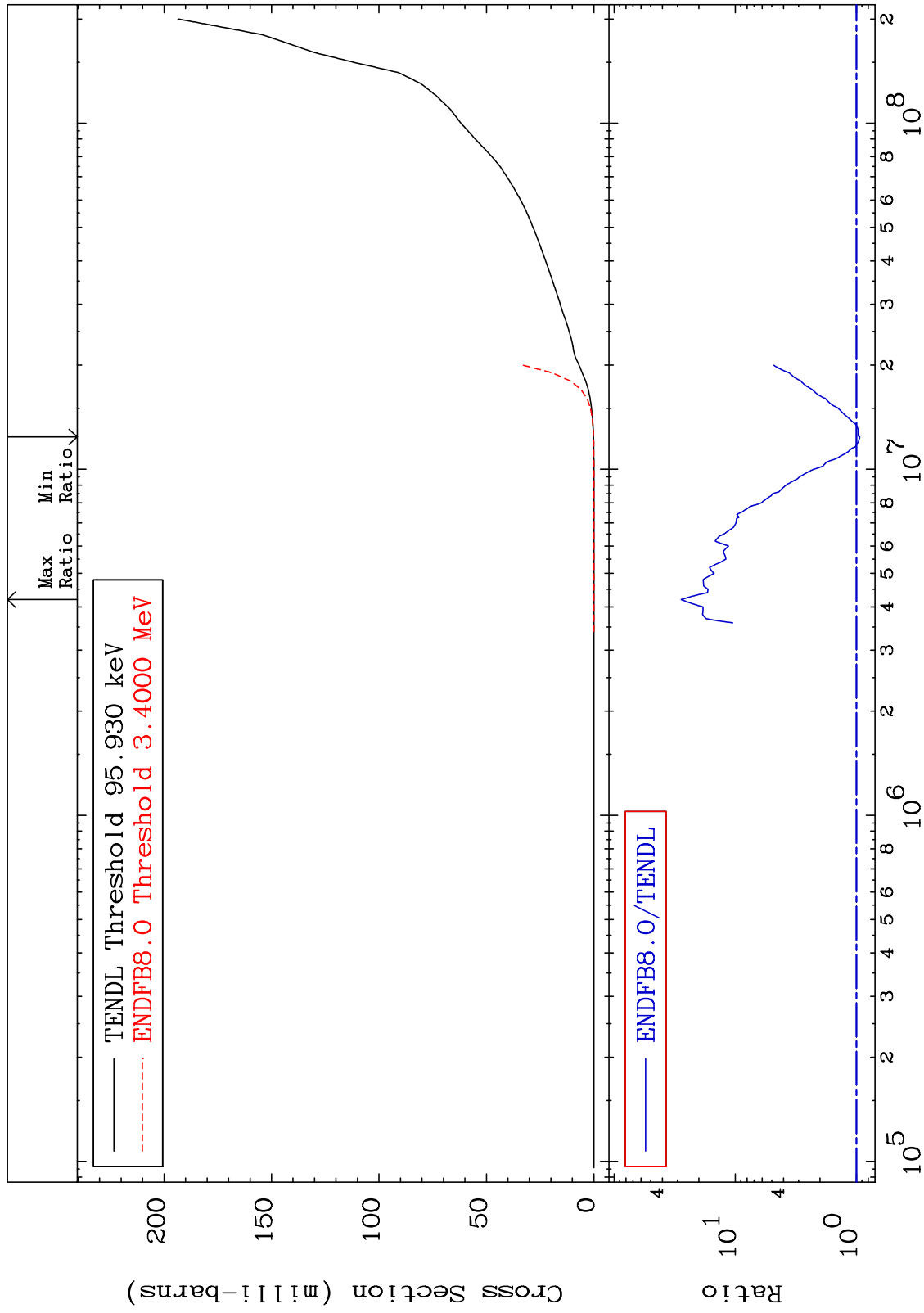
MAT 4043 He-3 Production Cross Section 40-Zr-96 -100.0 To -100.0%



MAT 4043

He-4 Production
Cross Section

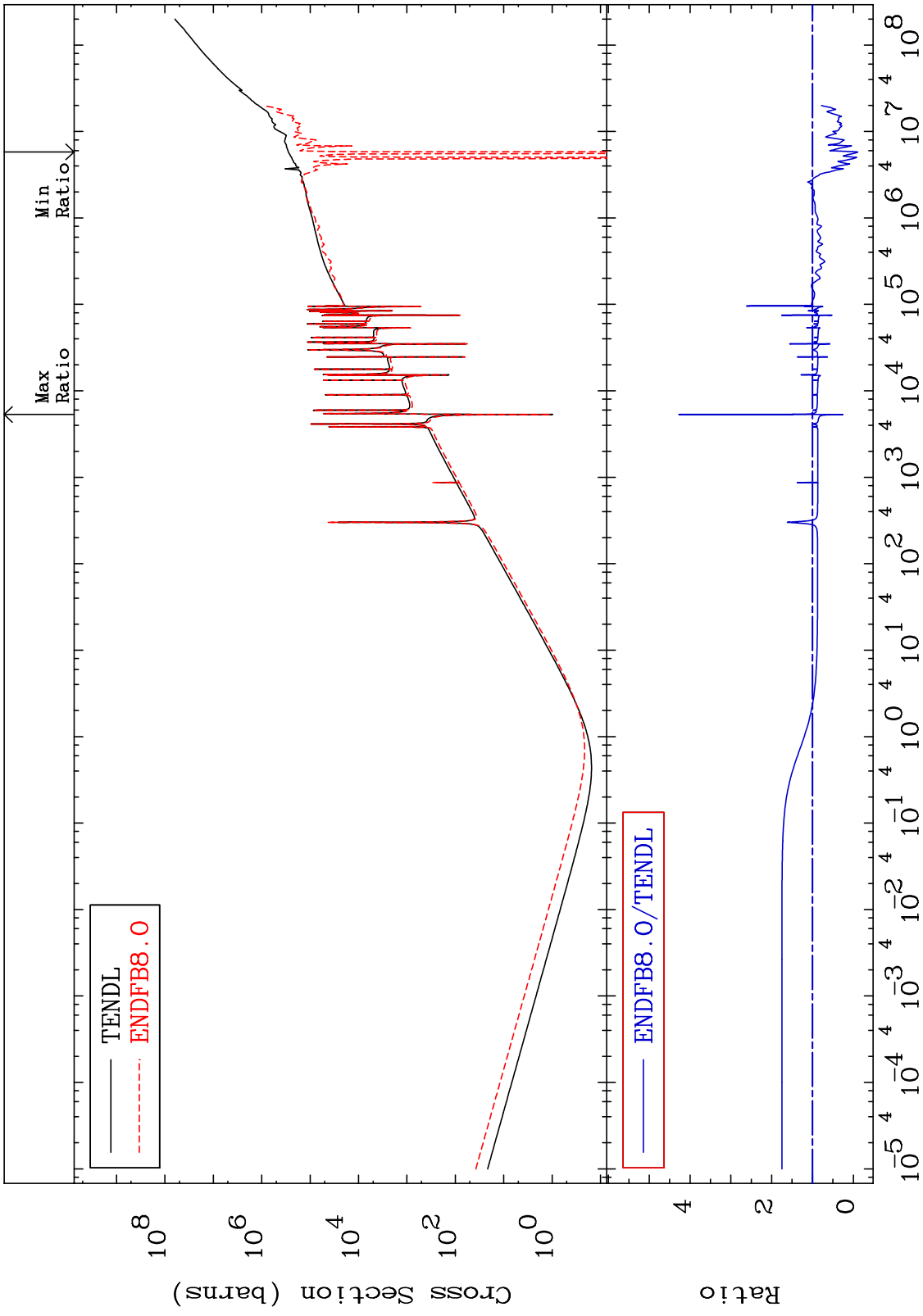
40-Zr-96
-6.115 To 2695. %



24

40-Zr-96

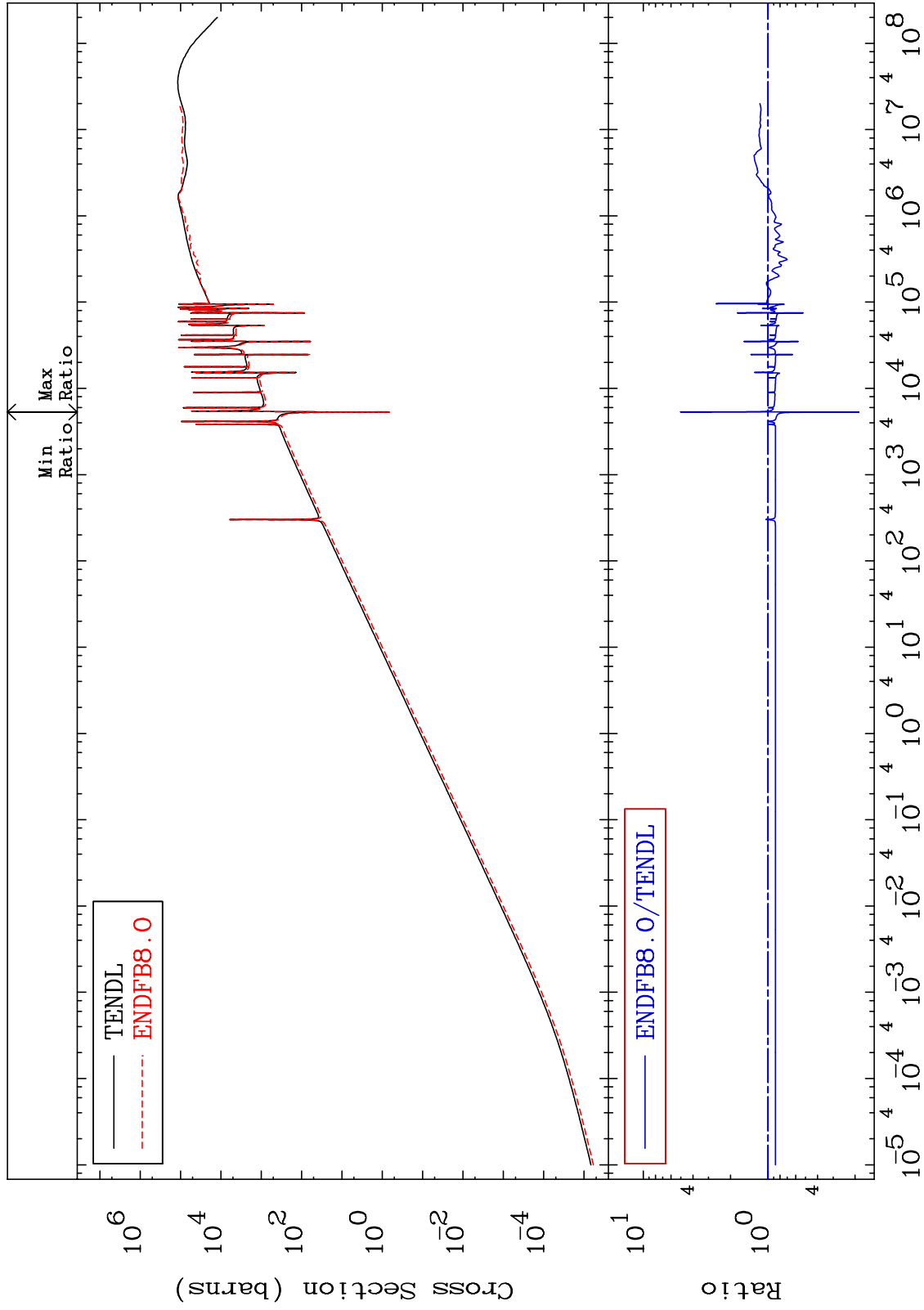
MAT 4043 Kerma total (eV-barns)
 Cross Section -111.0 To 327.0 % 40-Zr-96



MAT 4043

Kerma elastic
Cross Section

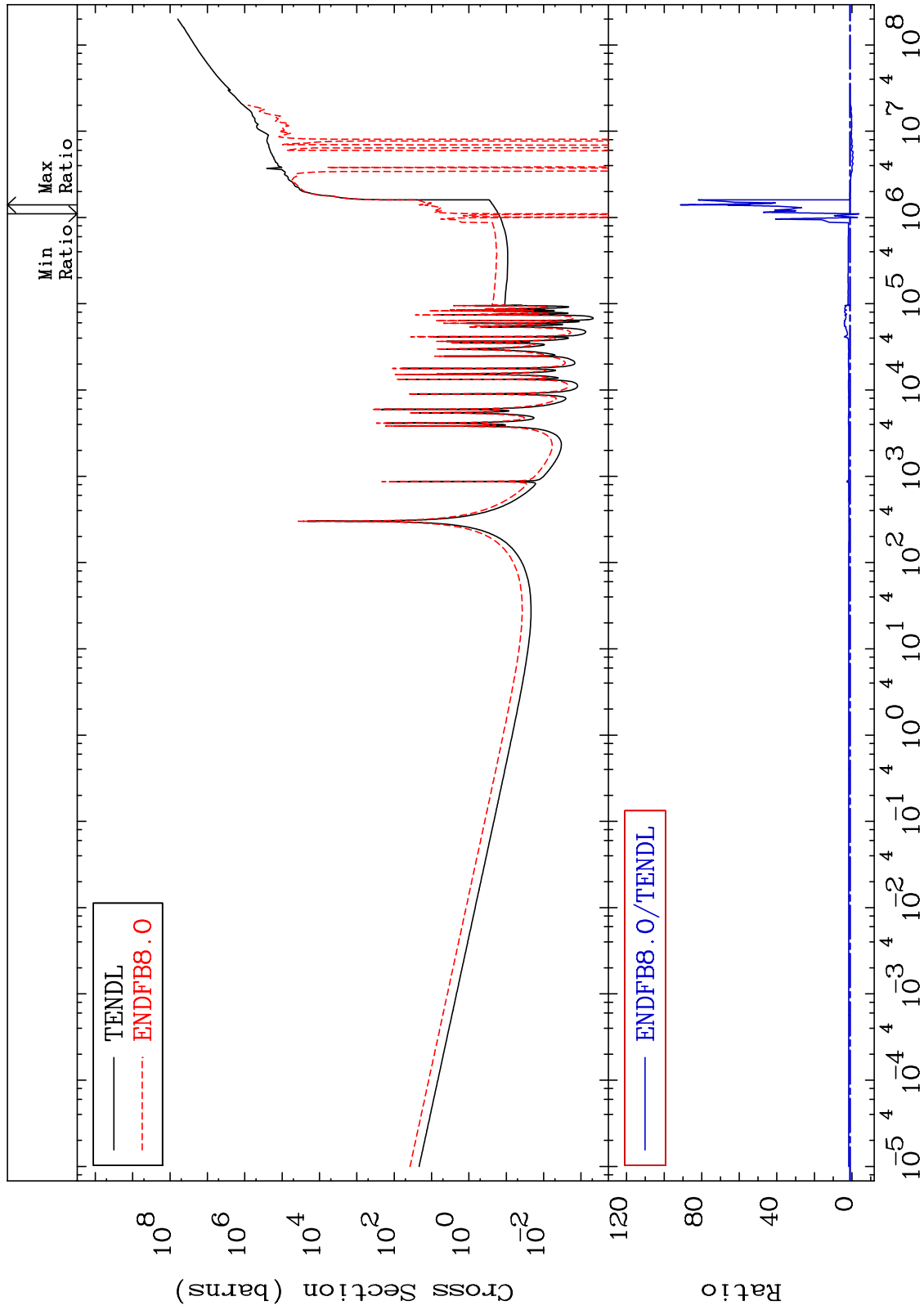
40-Zr-96
-81.40 To 402.0 %



MAT 4043

Kerma non-elastic (all but mt2)
Cross Section

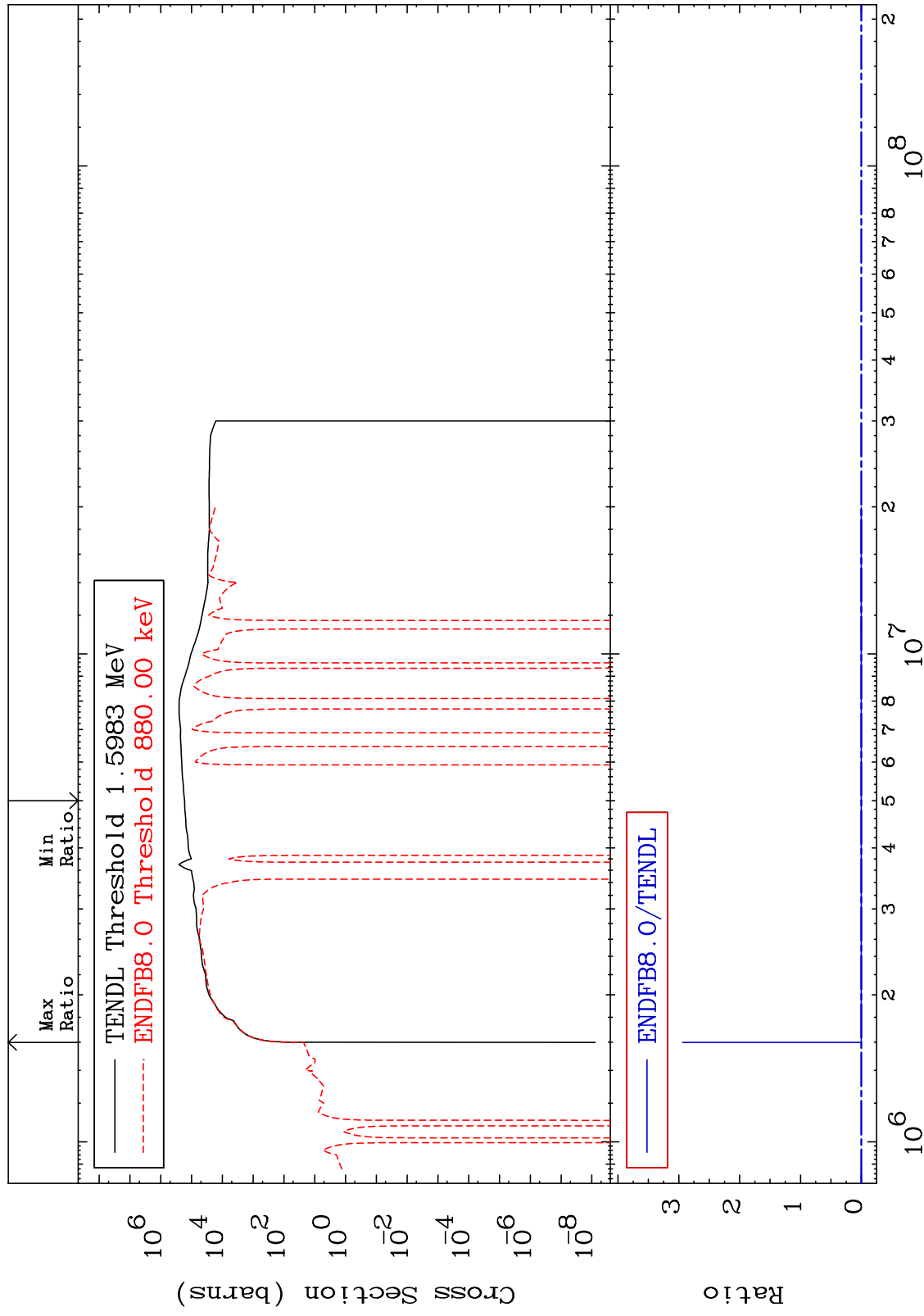
40-Zr-96
-472.7 To 9020. %



MAT 4043

Kerma inelastic (mt51-91)
Cross Section

40-Zr-96
-167.1 To 9999. %



28

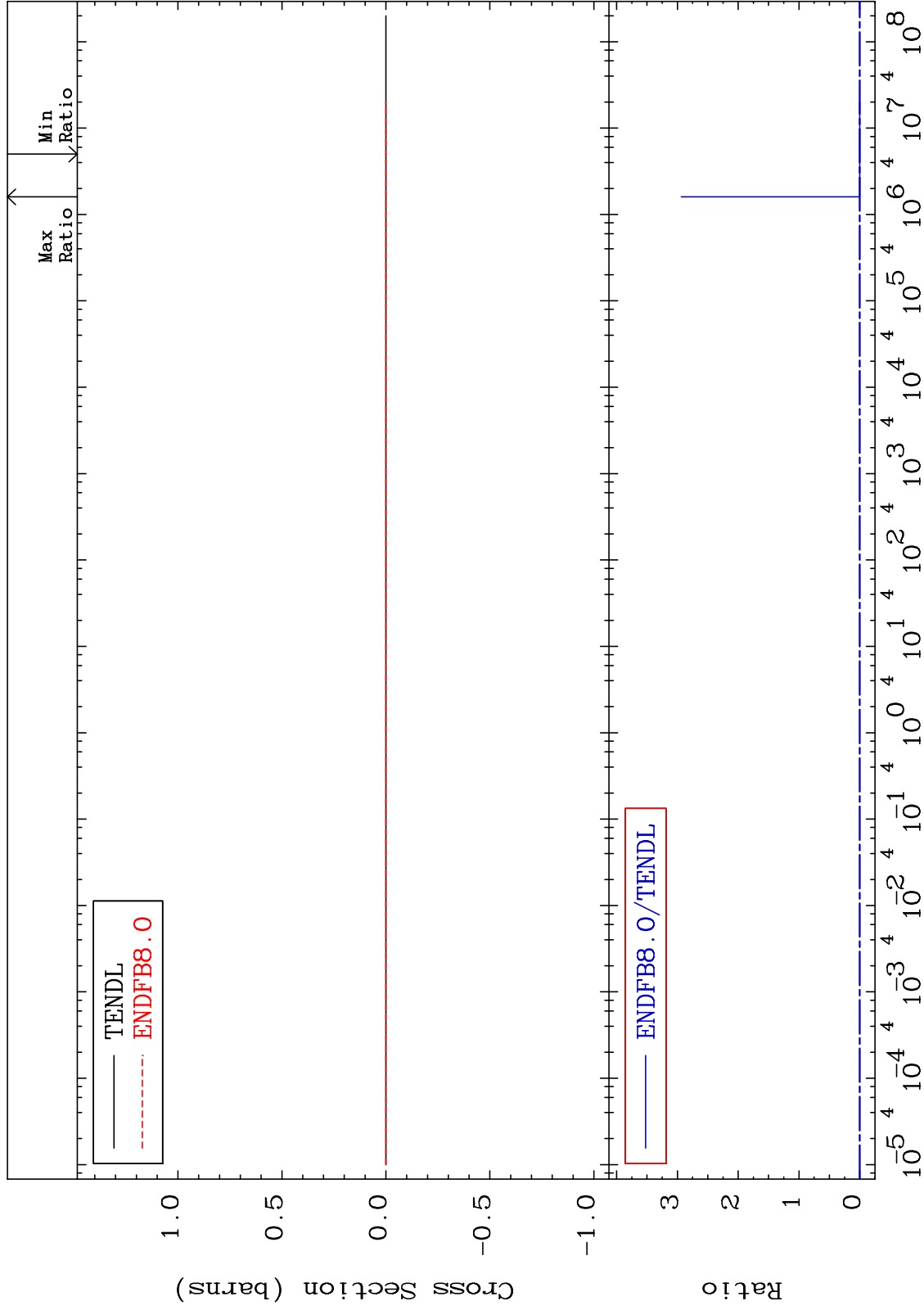
Incident Energy (eV)

40-Zr-96

MAT 4043

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

40-Zr-96
-167.1 To 9999. %



29

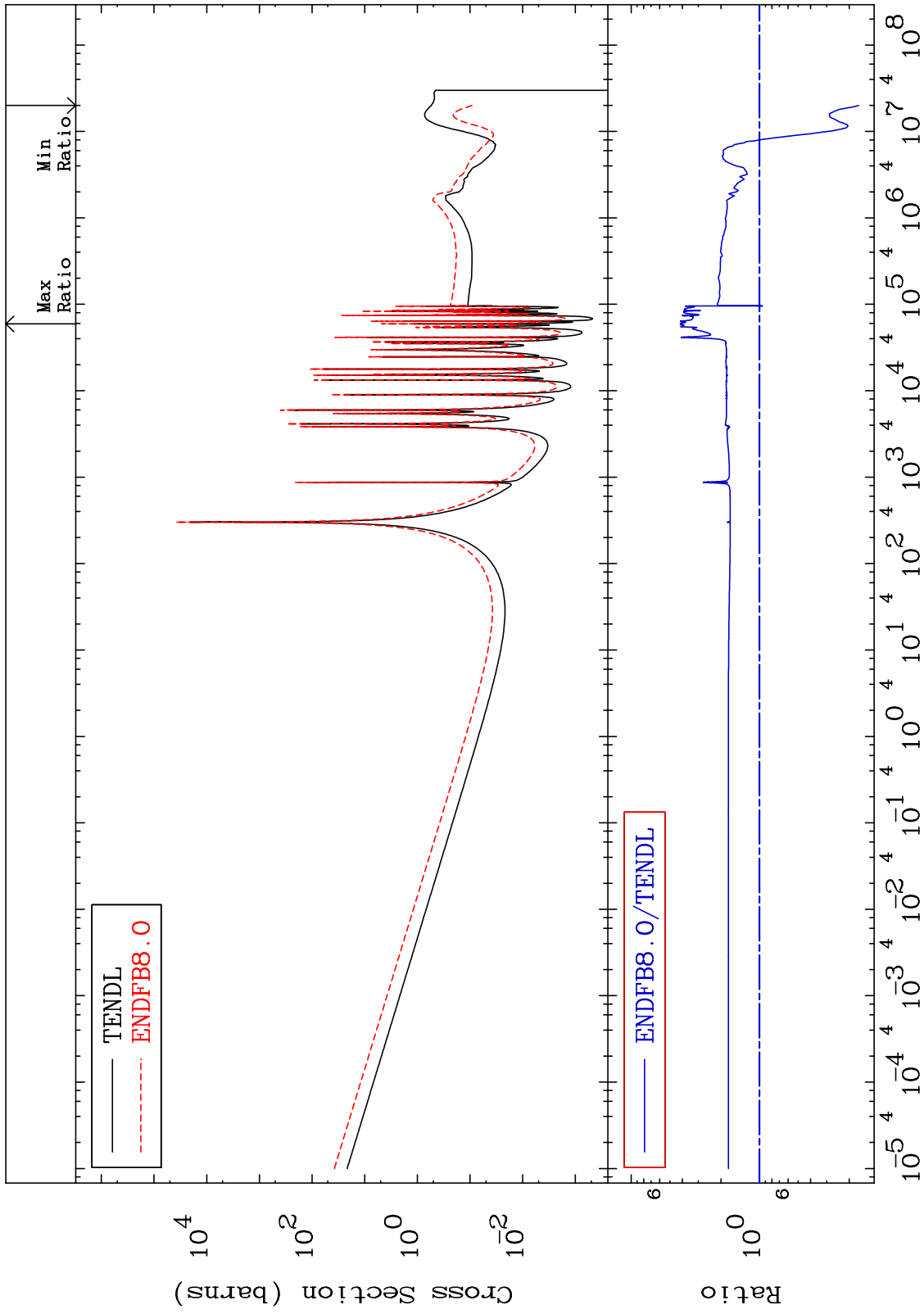
Incident Energy (eV)

40-Zr-96

MAT 4043

Kerma capture (mt102)
Cross Section

40-Zr-96
-83.17 To 315.1 %

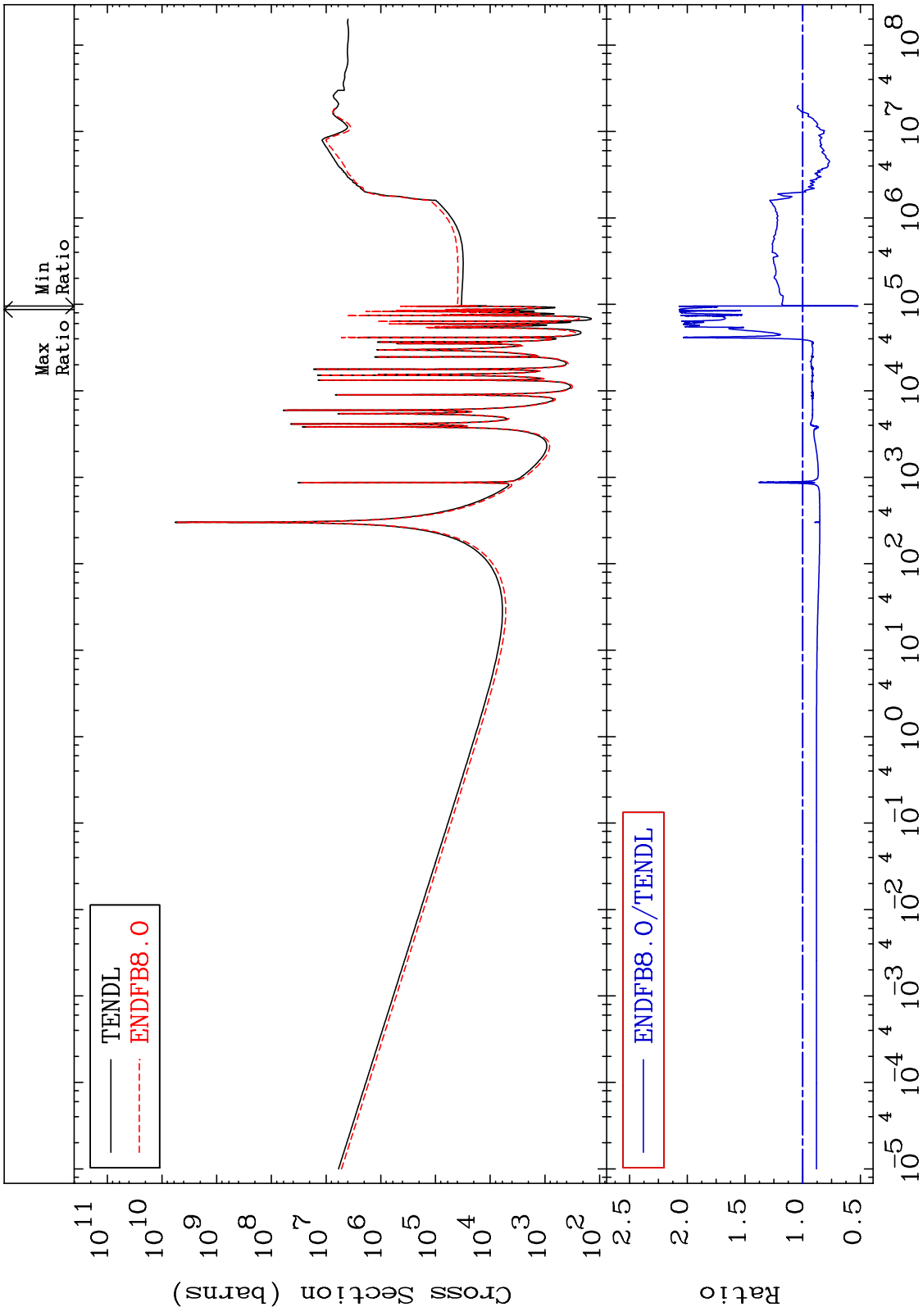


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Incident Energy (eV)

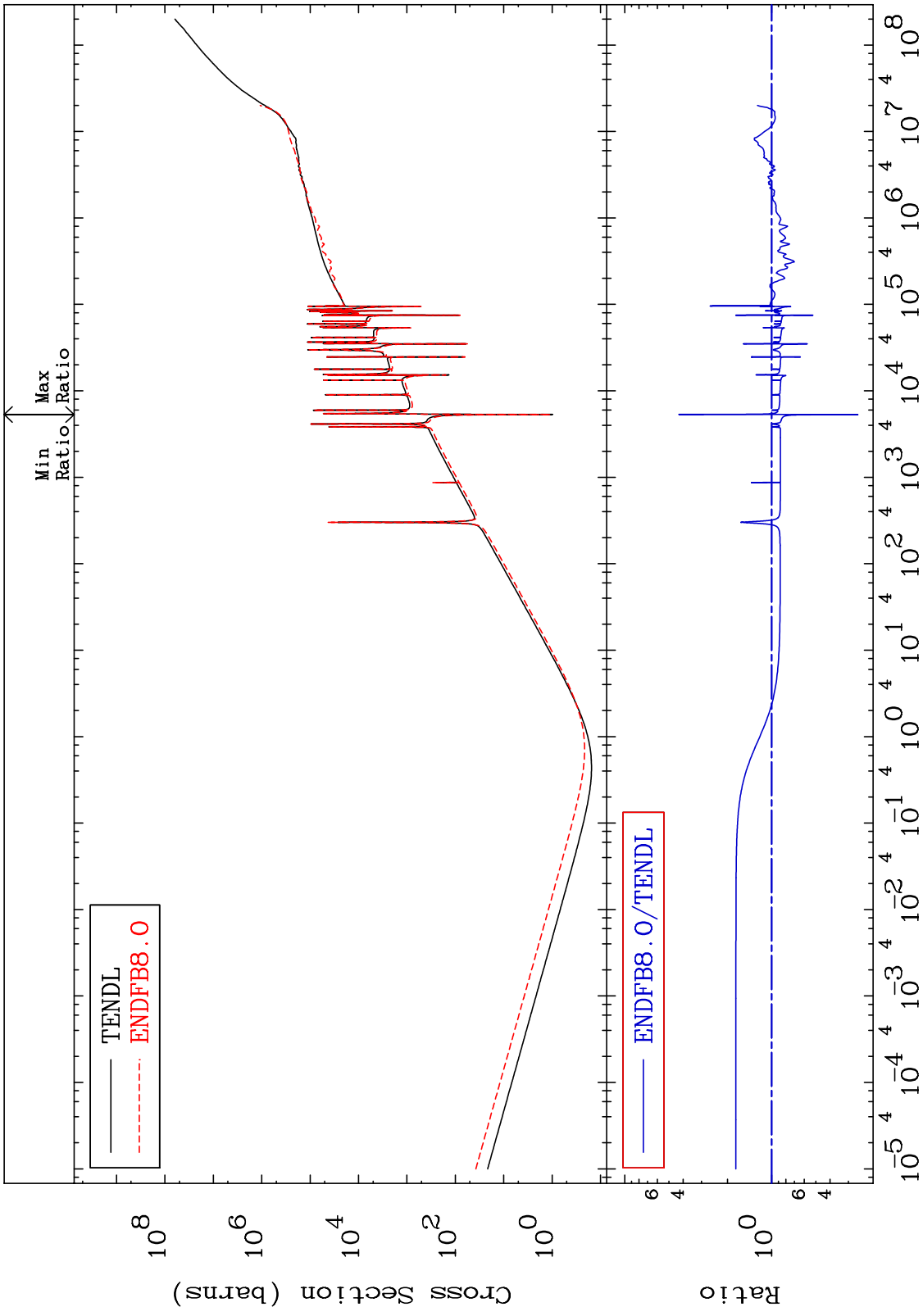
40-Zr-96

MAT 4043 40-Zr-96
 Total photon (eV-barns)
 Cross Section -47.75 To 107.2 %

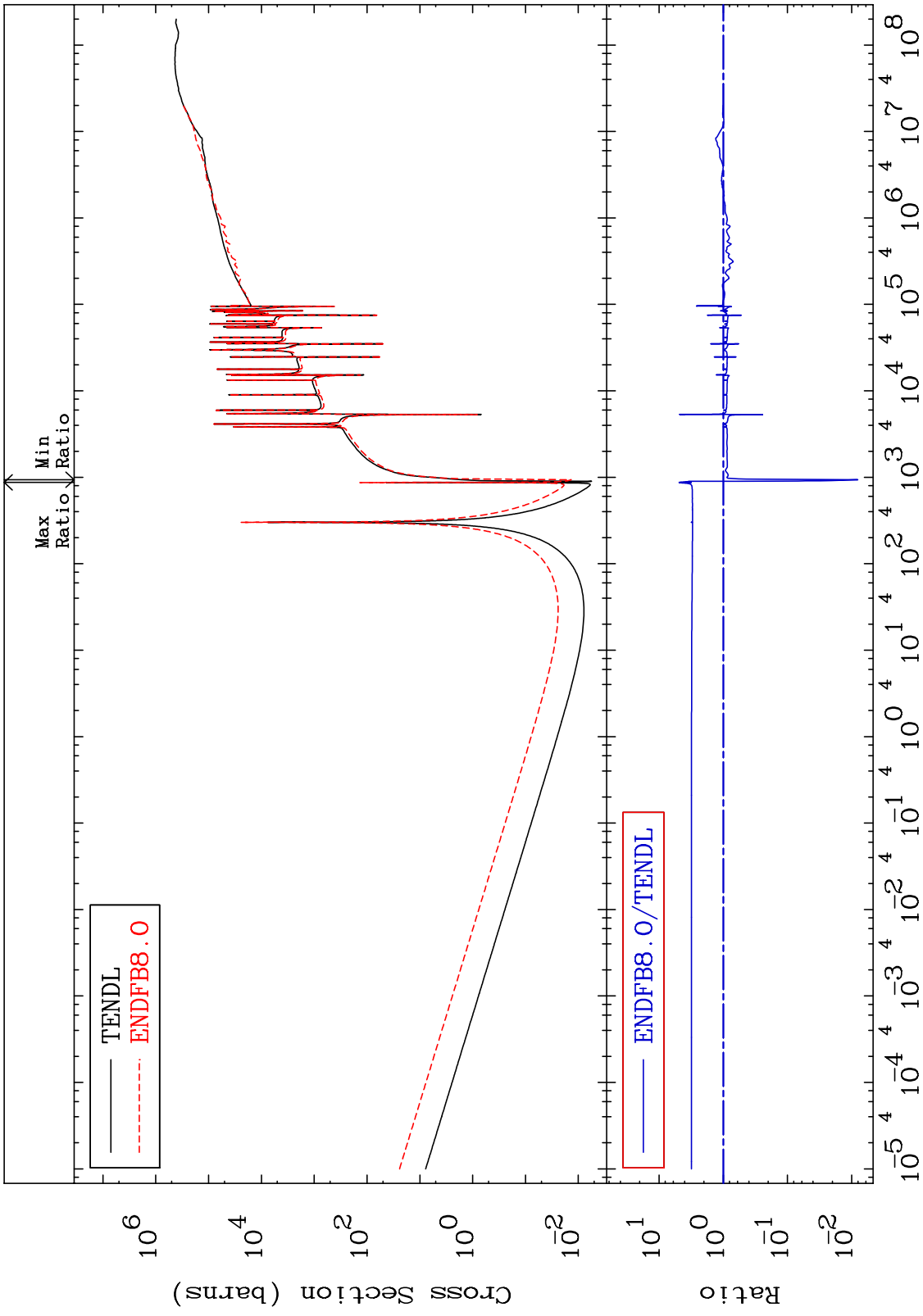


31 40-Zr-96

MAT 4043 Total kinematic kerma (high limit) 40-Zr-96
 Cross Section -74.11 To 327.0 %

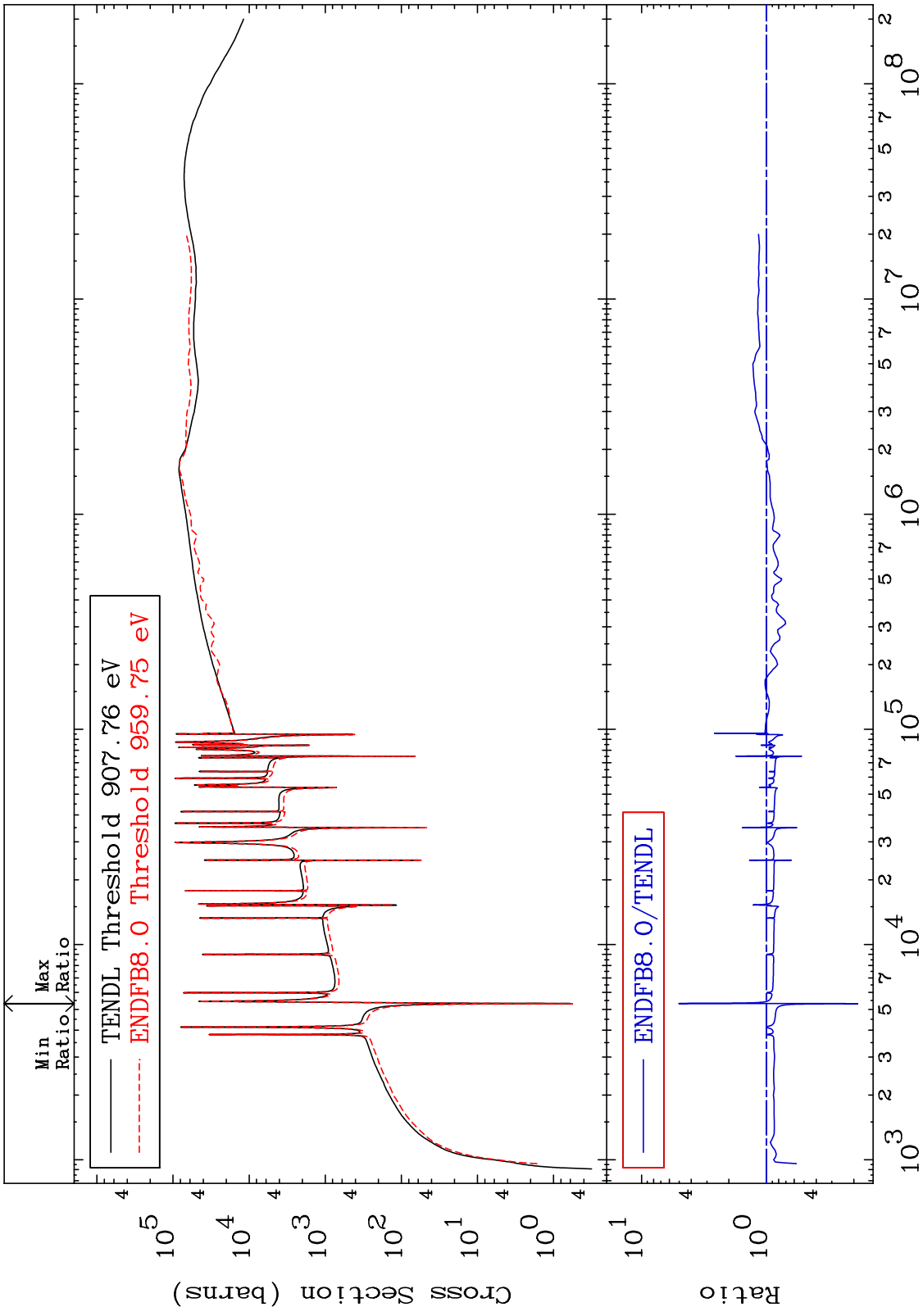


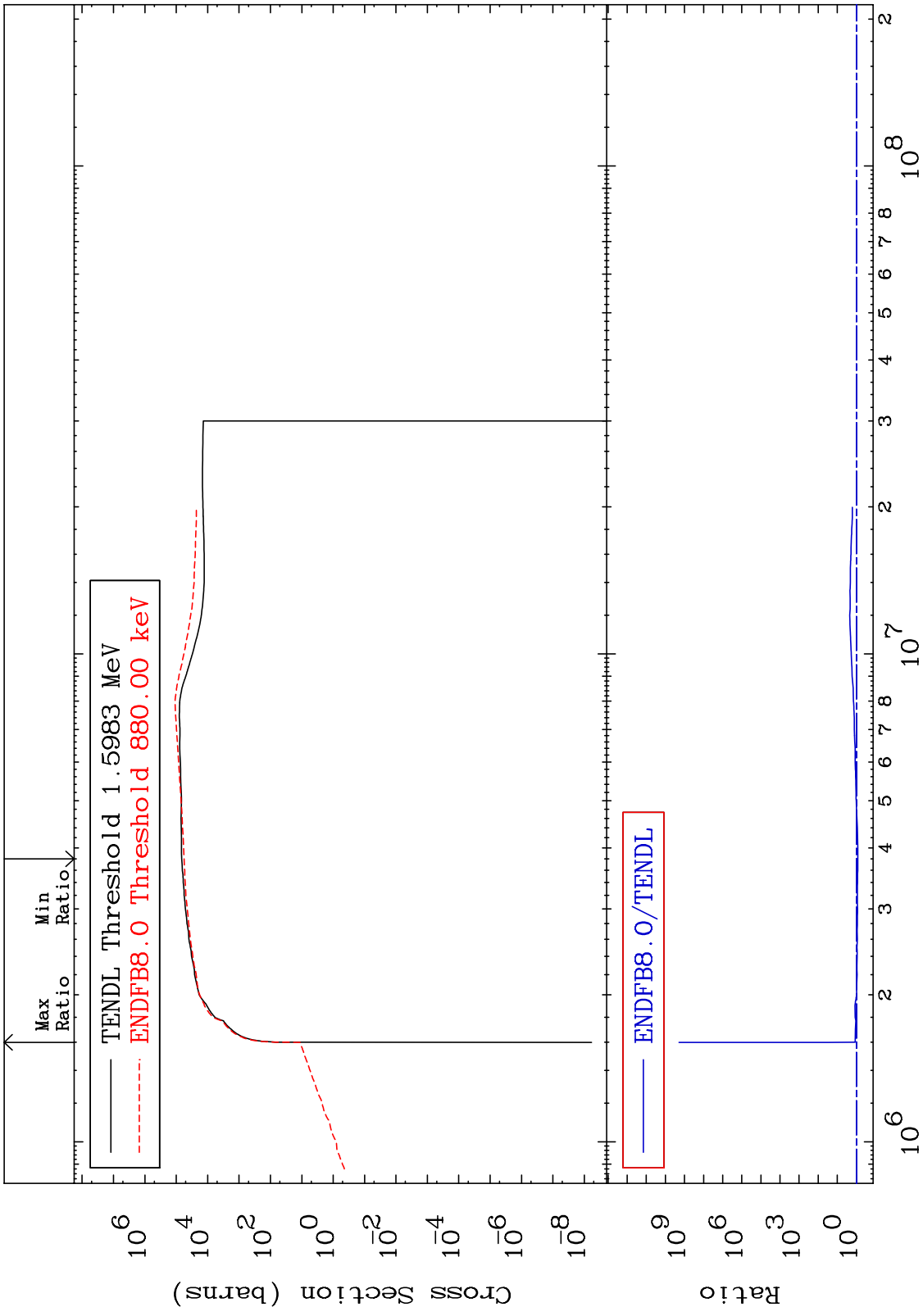
MAT 4043 Dpa total (eV-barns) 40-Zr-96
 -99.20 To 388.2 %
 Cross Section



Incident Energy (eV) 40-Zr-96

MAT 4043 Dpa elastic (mt2) 40-Zr-96
 Cross Section -81.43 To 401.3 %





MAT 4043

Dpa disappearance (mt102 -120)
Cross Section

40-Zr-96
-47.33 To 669.7 %

