

Program Complot
(Version 2018-1)

by

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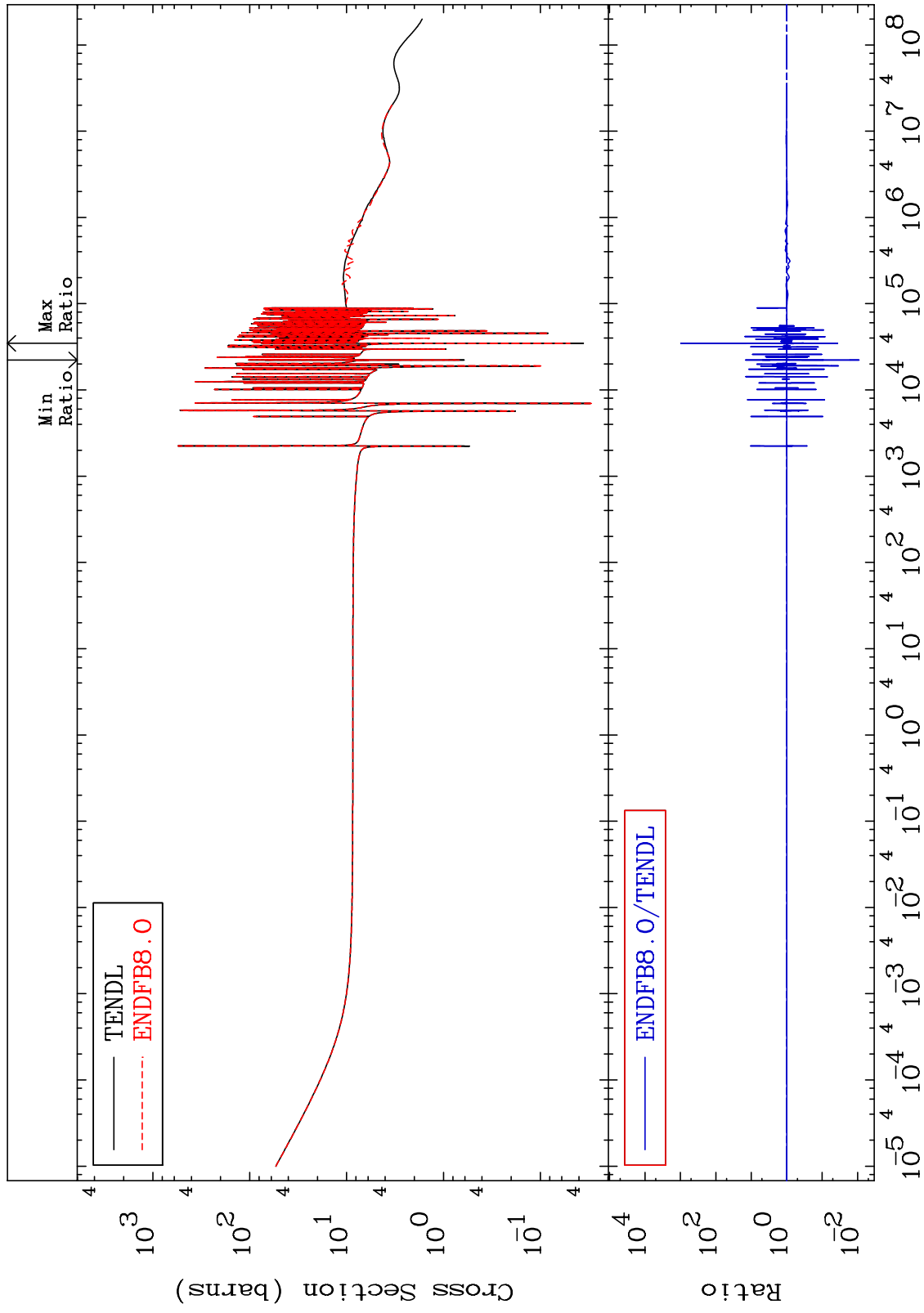
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4037

Total
Cross Section

40-Zr-94
-99.08 To 9999. %



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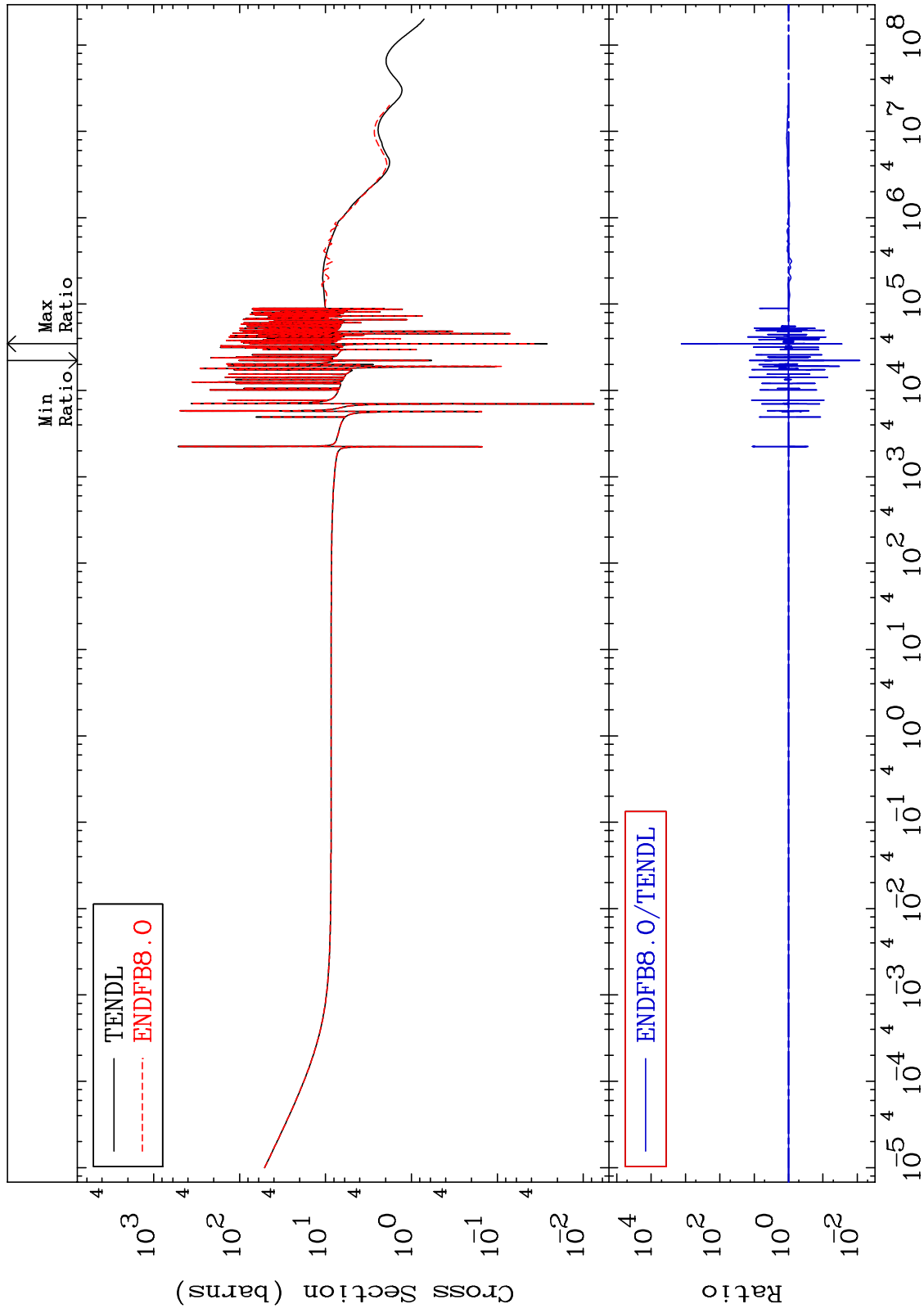
Incident Energy (eV)

40-Zr-94

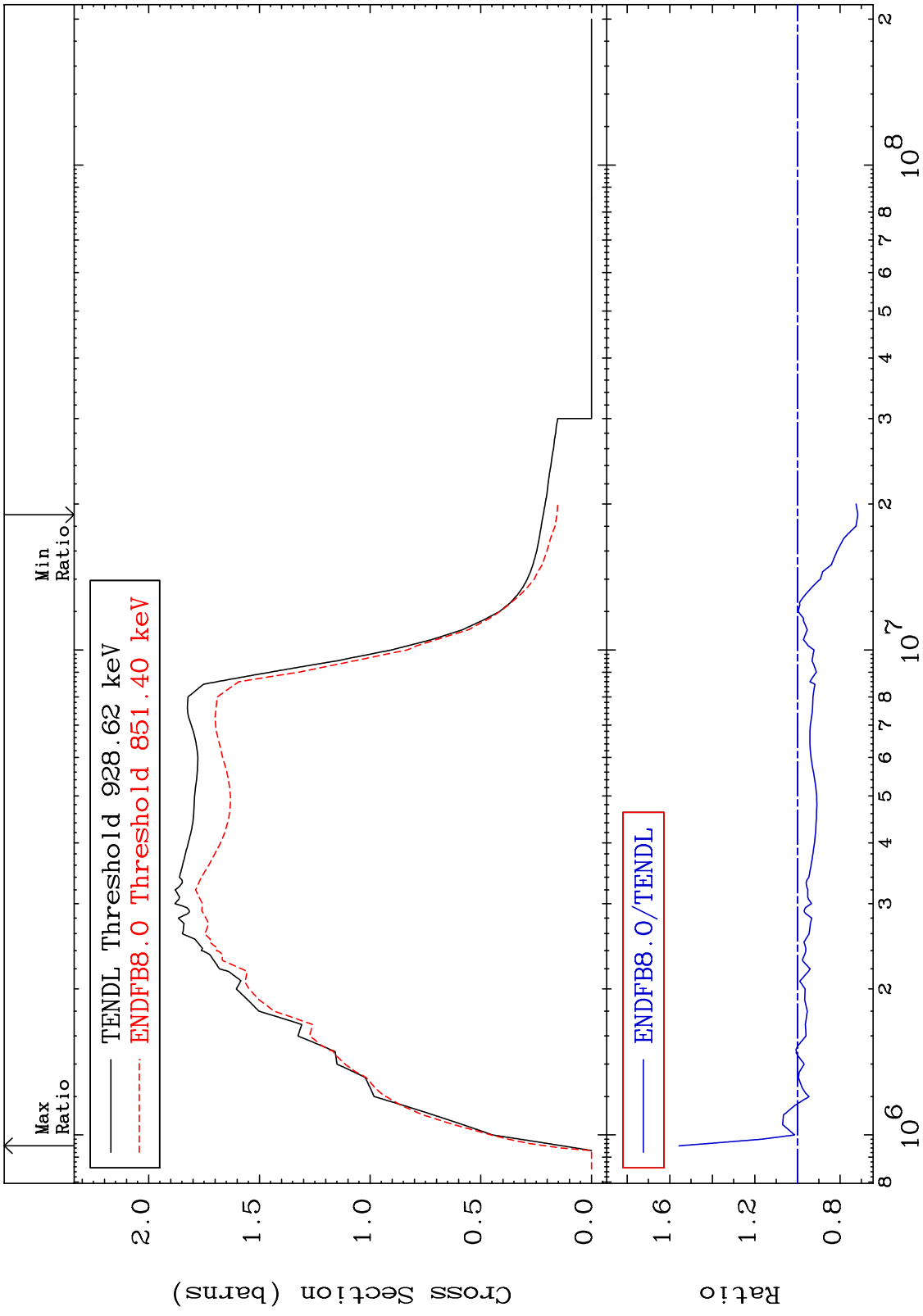
MAT 4037

Elastic
Cross Section

40-Zr-94
-99.15 To 9999. %

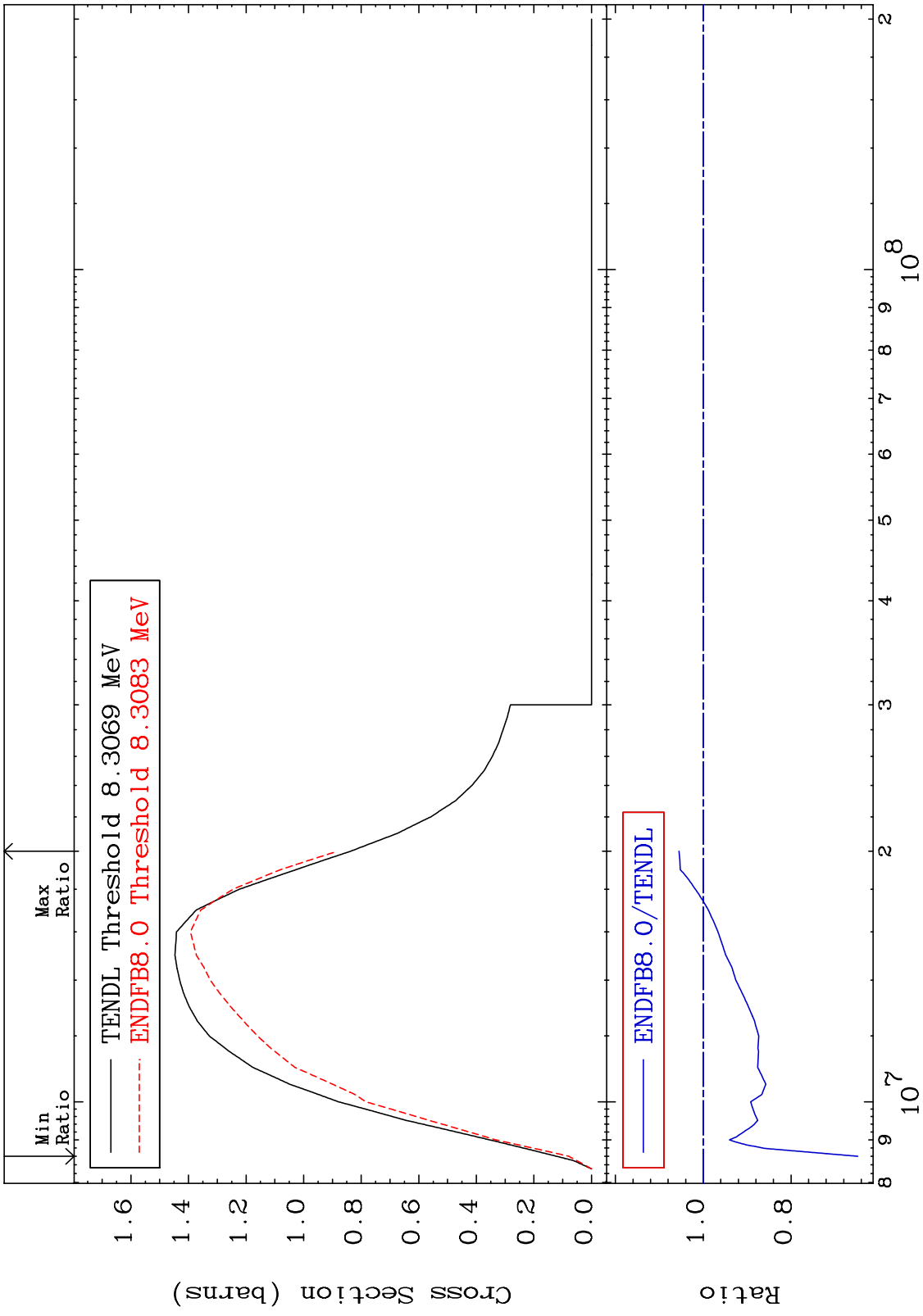


MAT 4037 Inelastic Cross Section 40-Zr-94 -28.35 To 55.63 %

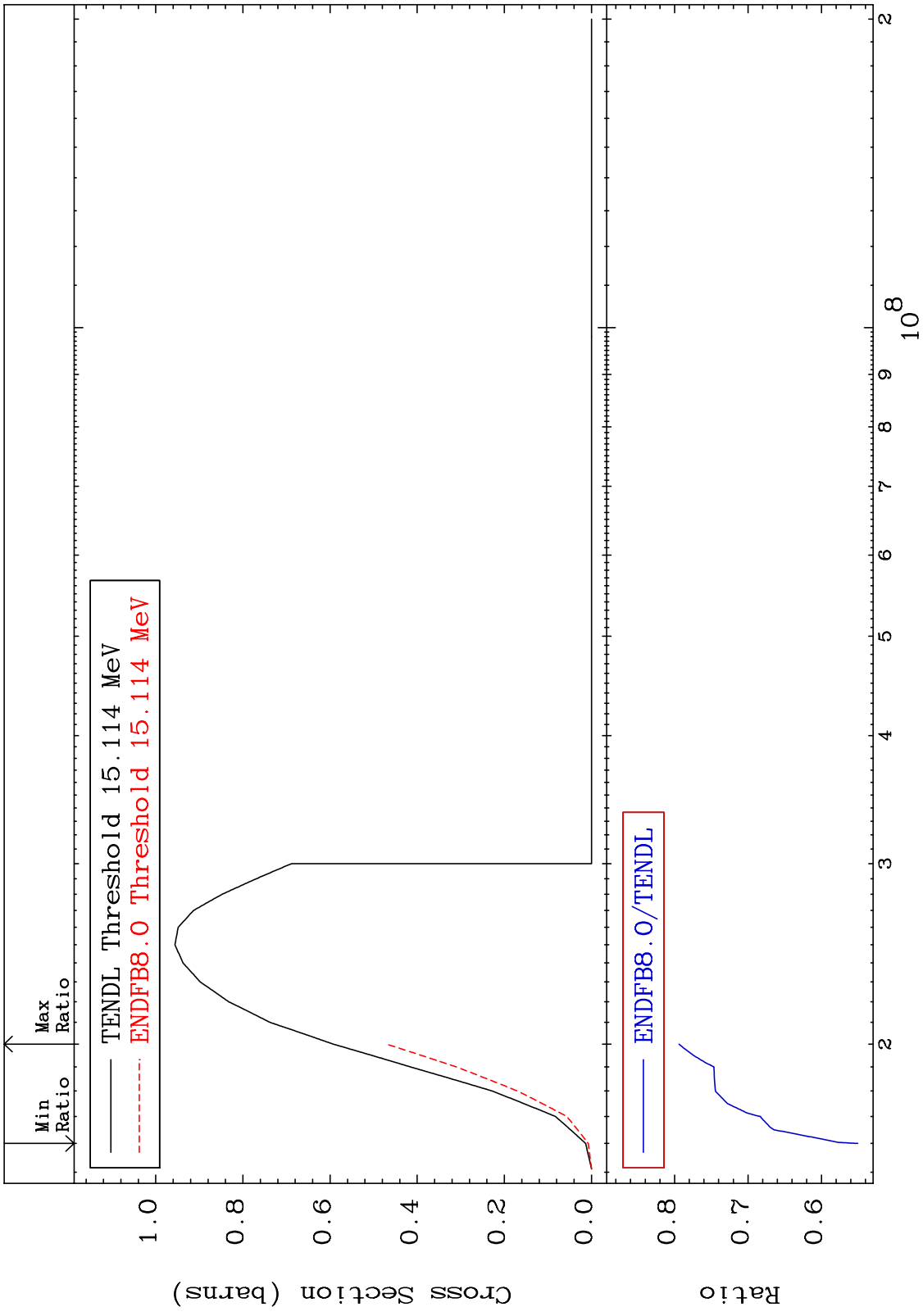


3 Incident Energy (eV) 40-Zr-94

MAT 4037 (n,2n) Cross Section 40-Zr-94 -35.21 To 5.509 %



MAT 4037 (n,3n) 40-Zr-94
 Cross Section -44.96 To -20.61%

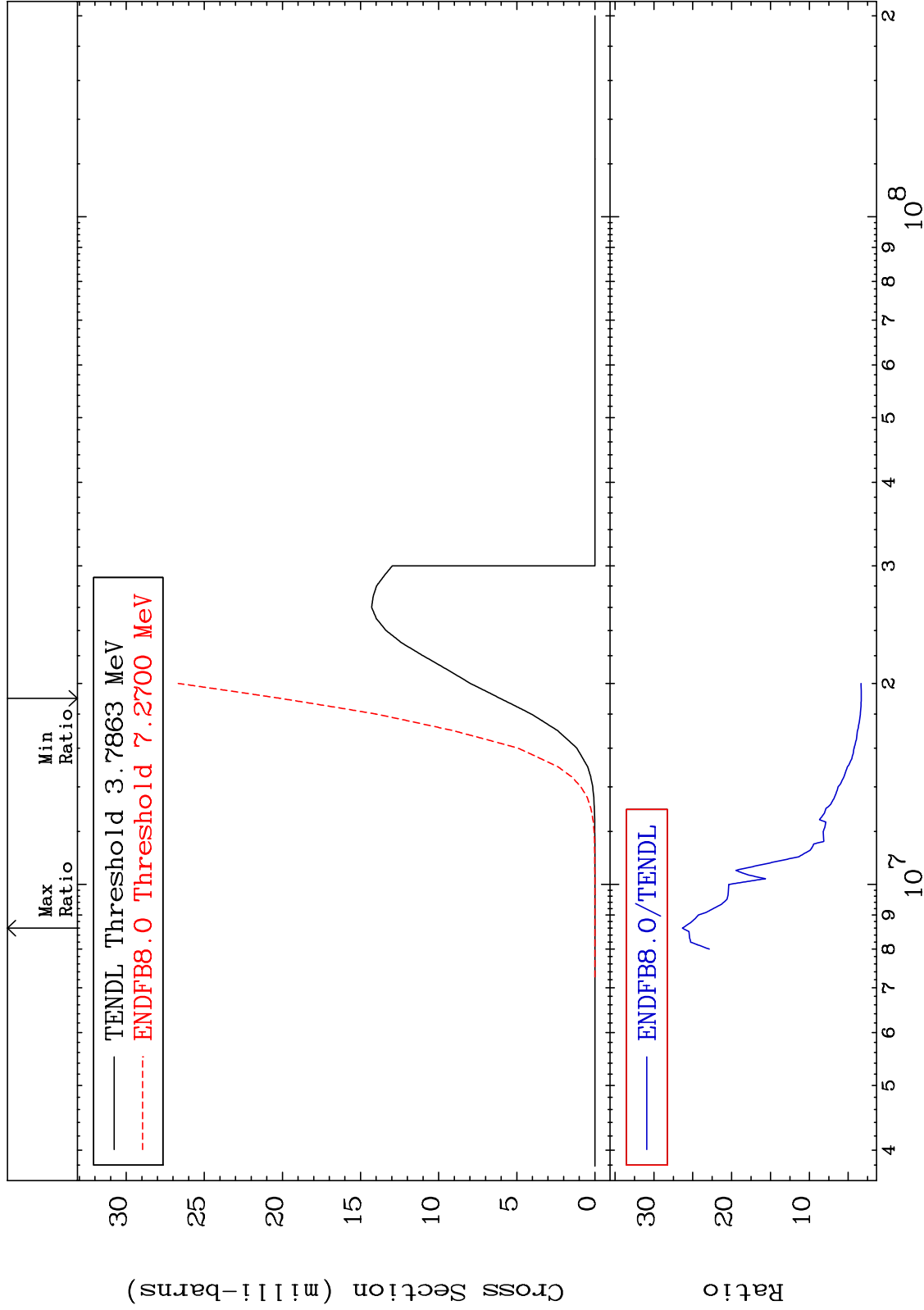


MAT 4037

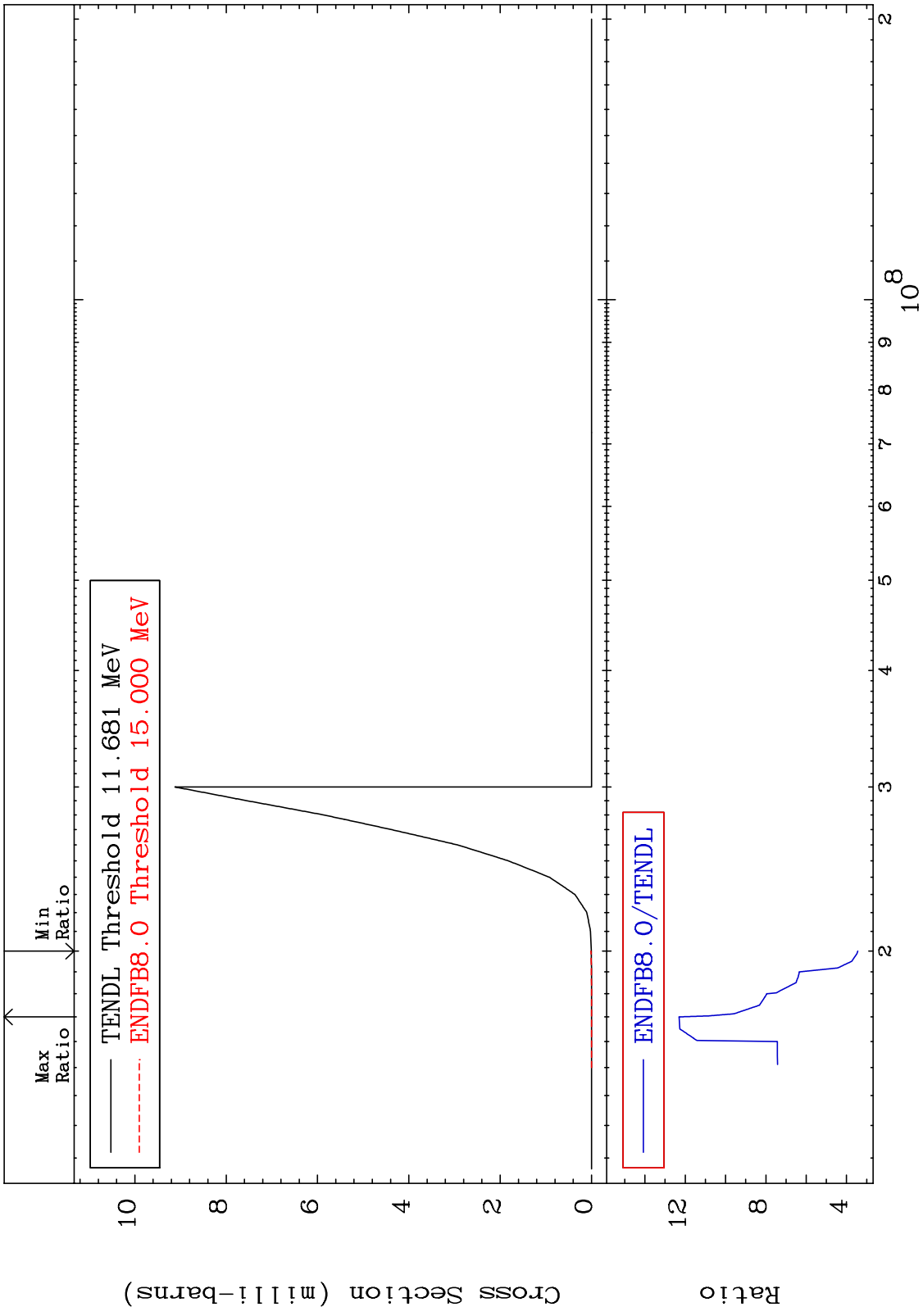
(n,n') α

40-Zr-94
231.7 To 2533. %

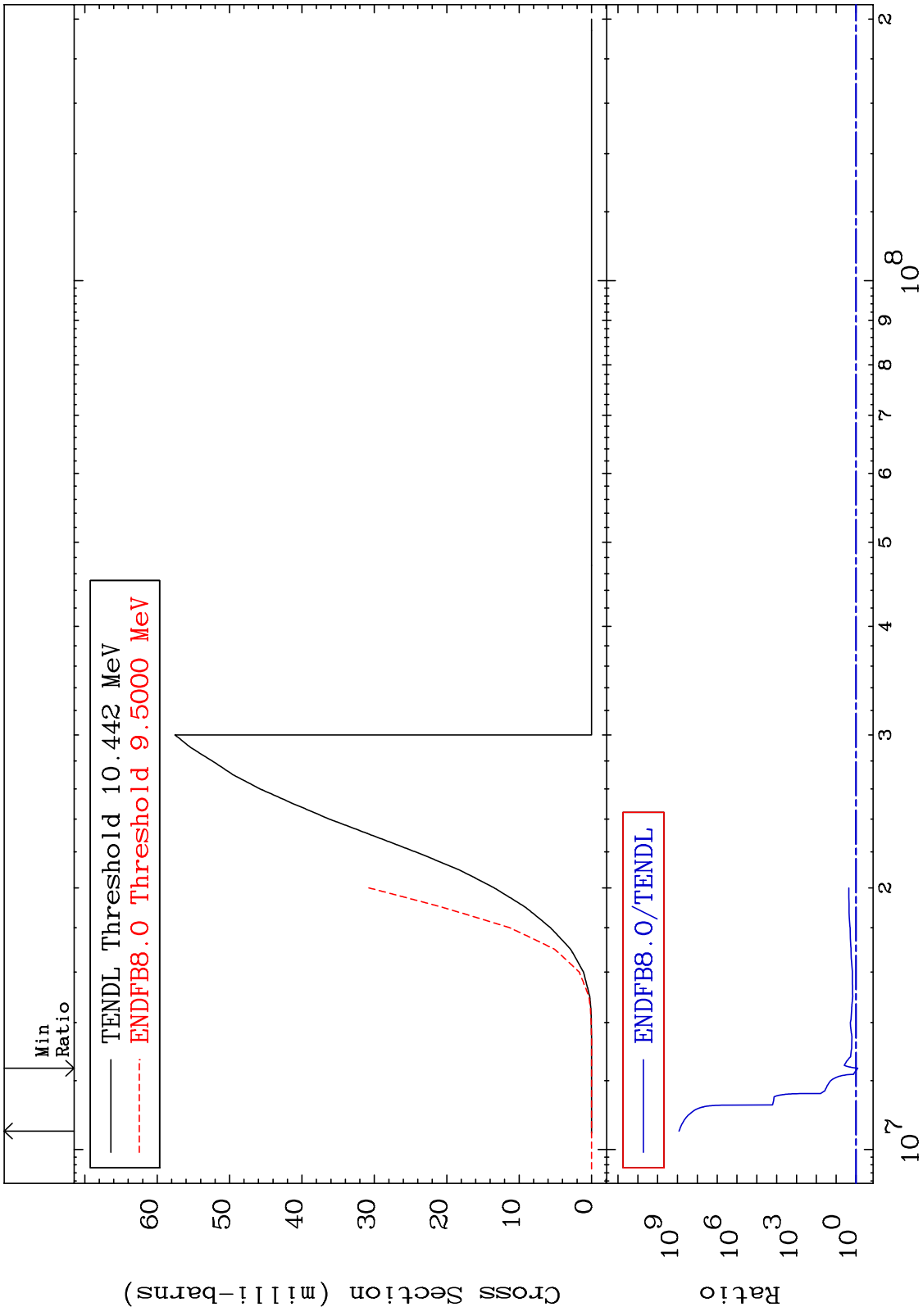
Cross Section



MAT 4037 (n,2n) α 40-Zr-94
 Cross Section 243.9 To 1131. %



MAT 4037 (n,n') p 40-Zr-94
Cross Section -19.37 To 9999. %



40-Zr-94 Incident Energy (eV)

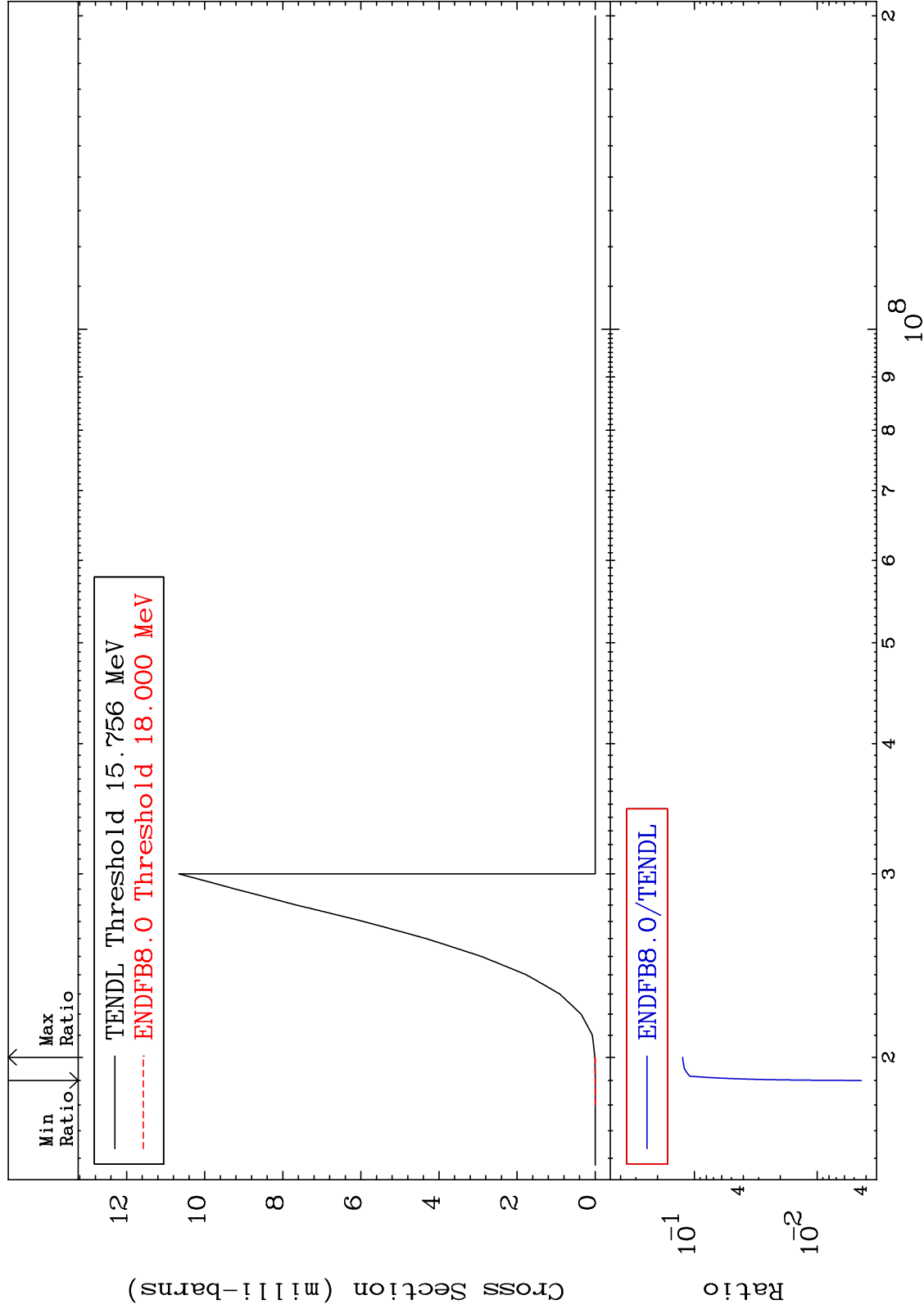
MAT 4037

(n,n') d

40-Zr-94

Cross Section

-99.56 To -87.53%

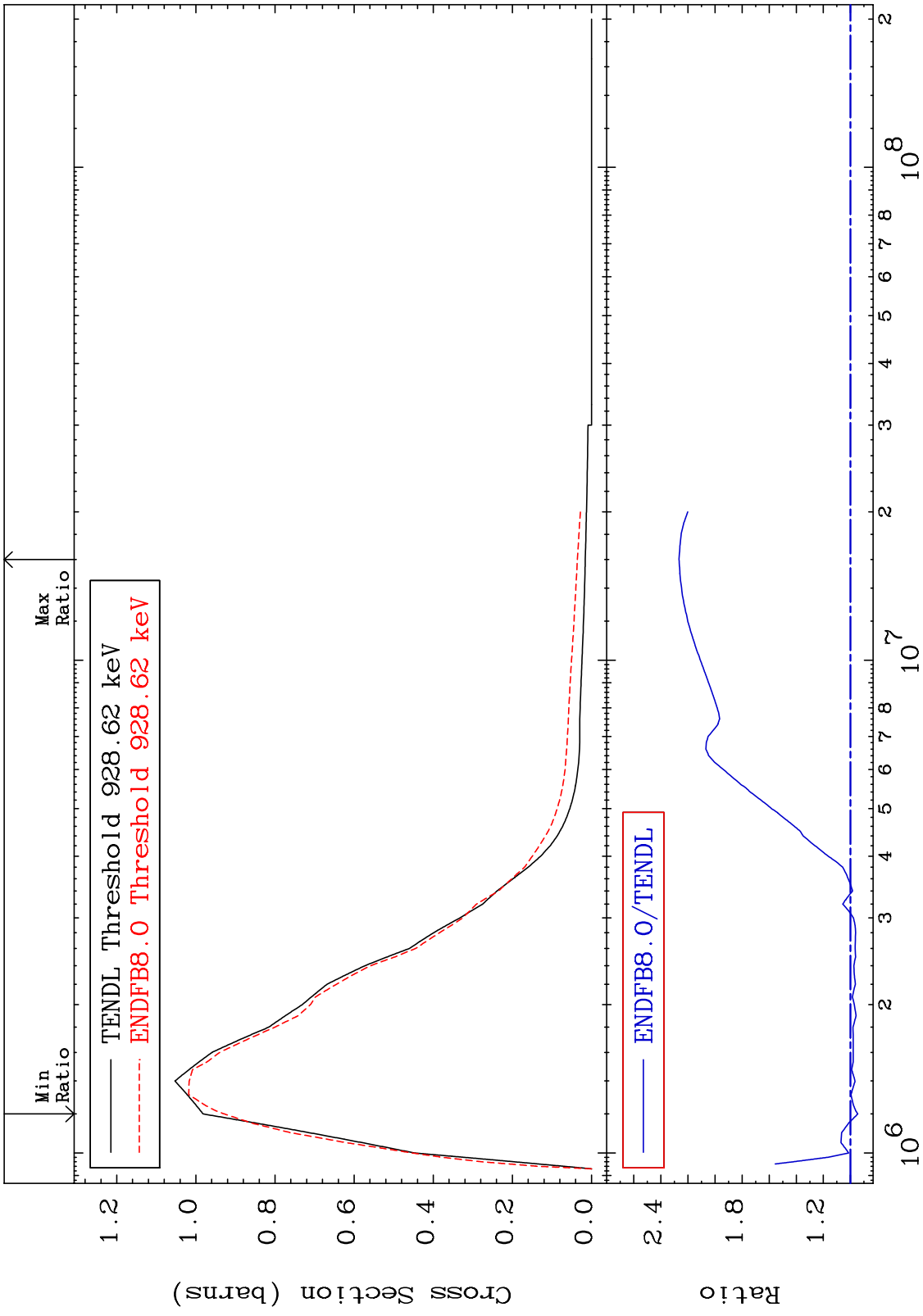


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40-Zr-94

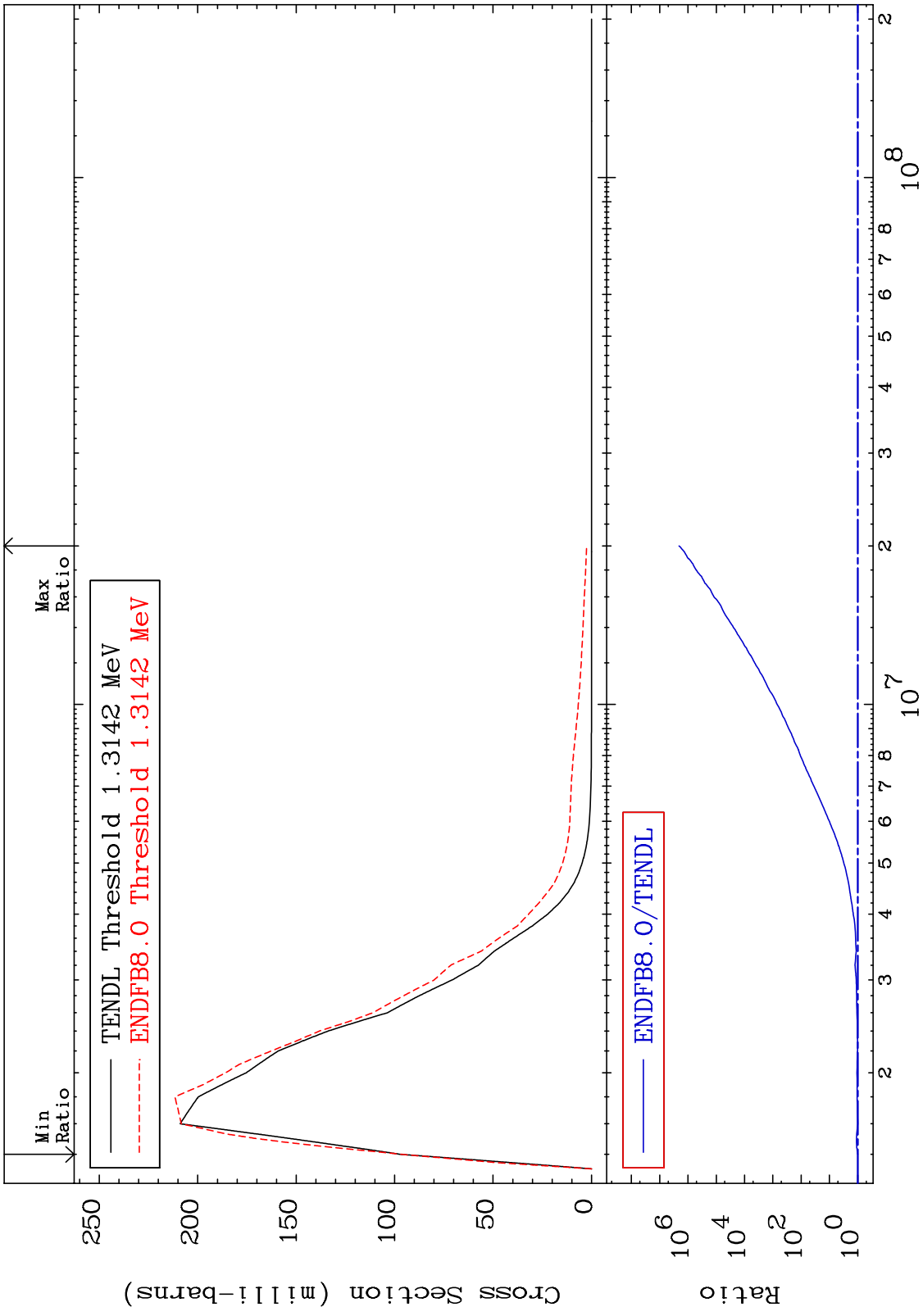
40-Zr-94

MAT 4037 MT= 51 (n,n') Level Cross Section 40-Zr-94 -5.448 To 126.5 %

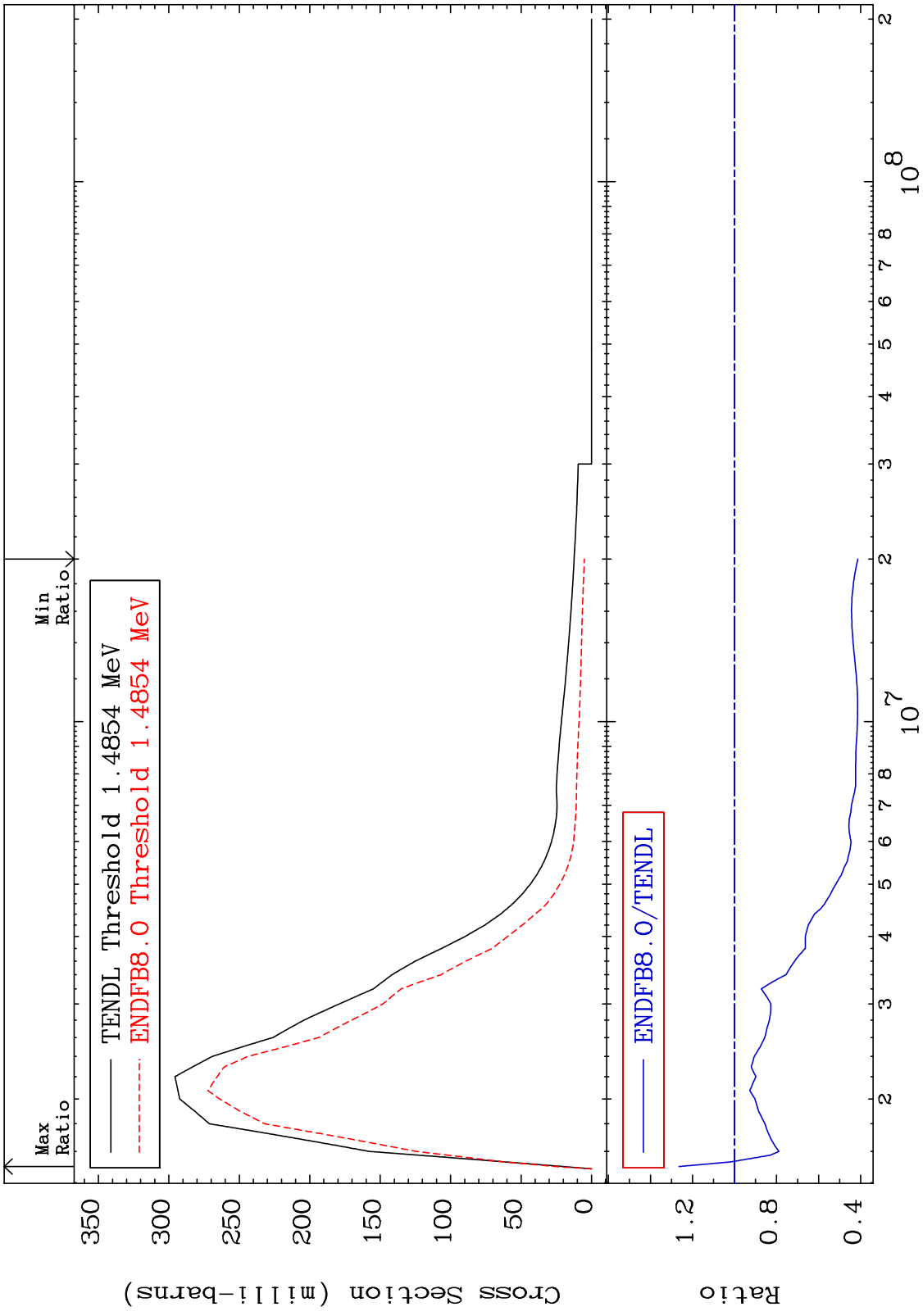


Incident Energy (eV) 40-Zr-94

MAT 4037 MT= 52 (n,n') Level Cross Section 40-Zr-94
 -0.836 To 9999. %



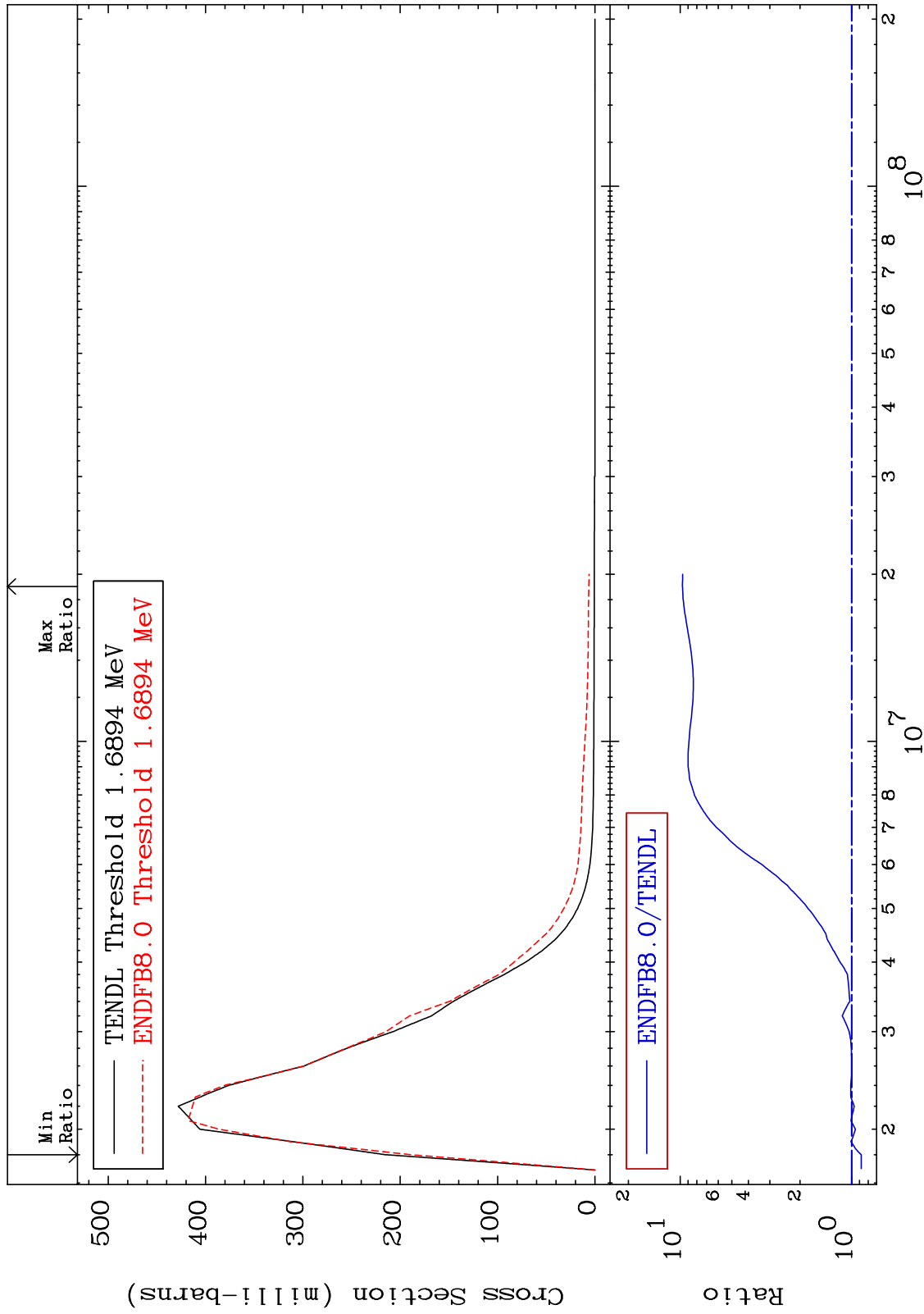
MAT 4037 MT= 53 (n,n') Level Cross Section 40-Zr-94
 -58.66 To 26.40 %



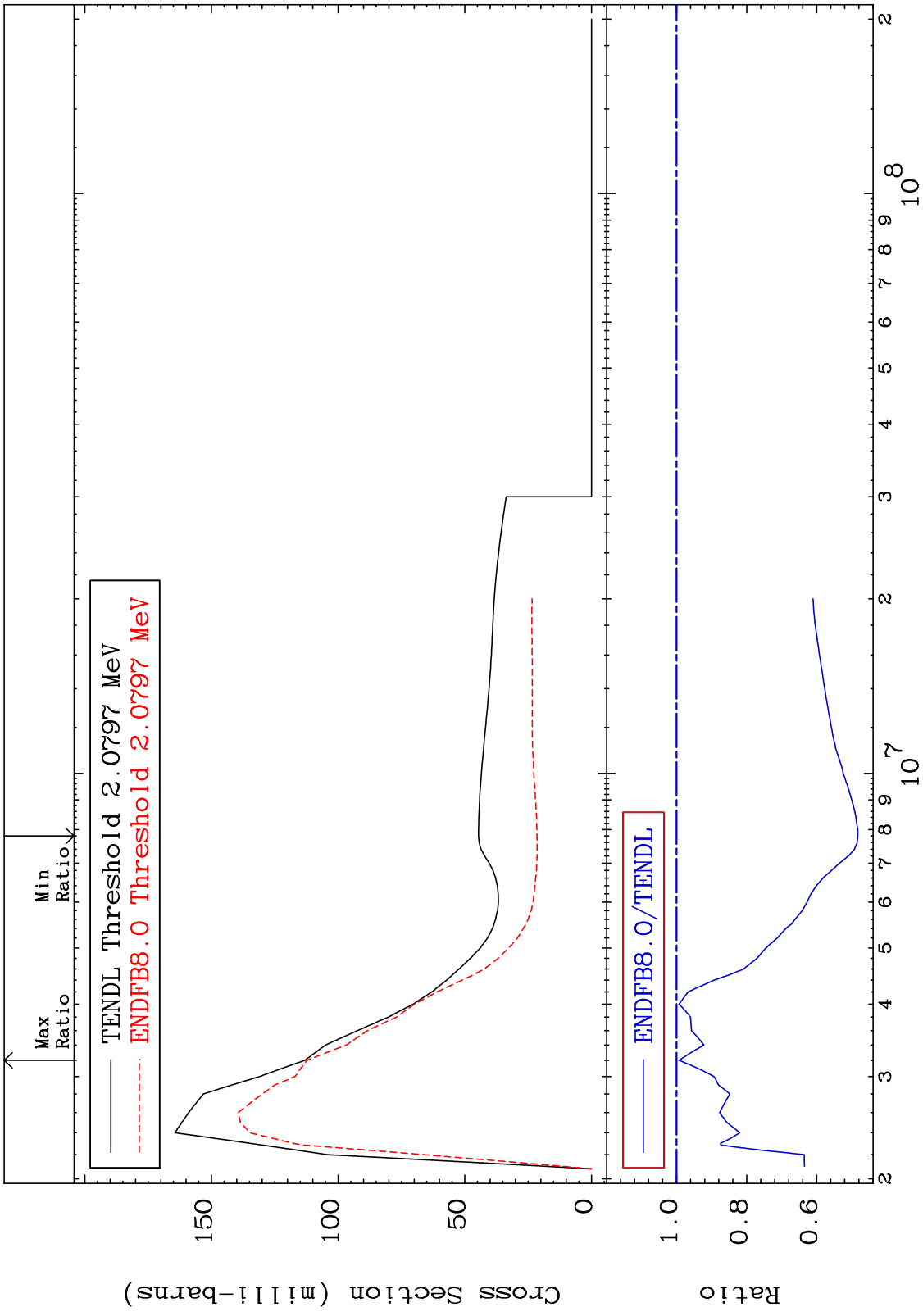
MAT 4037

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

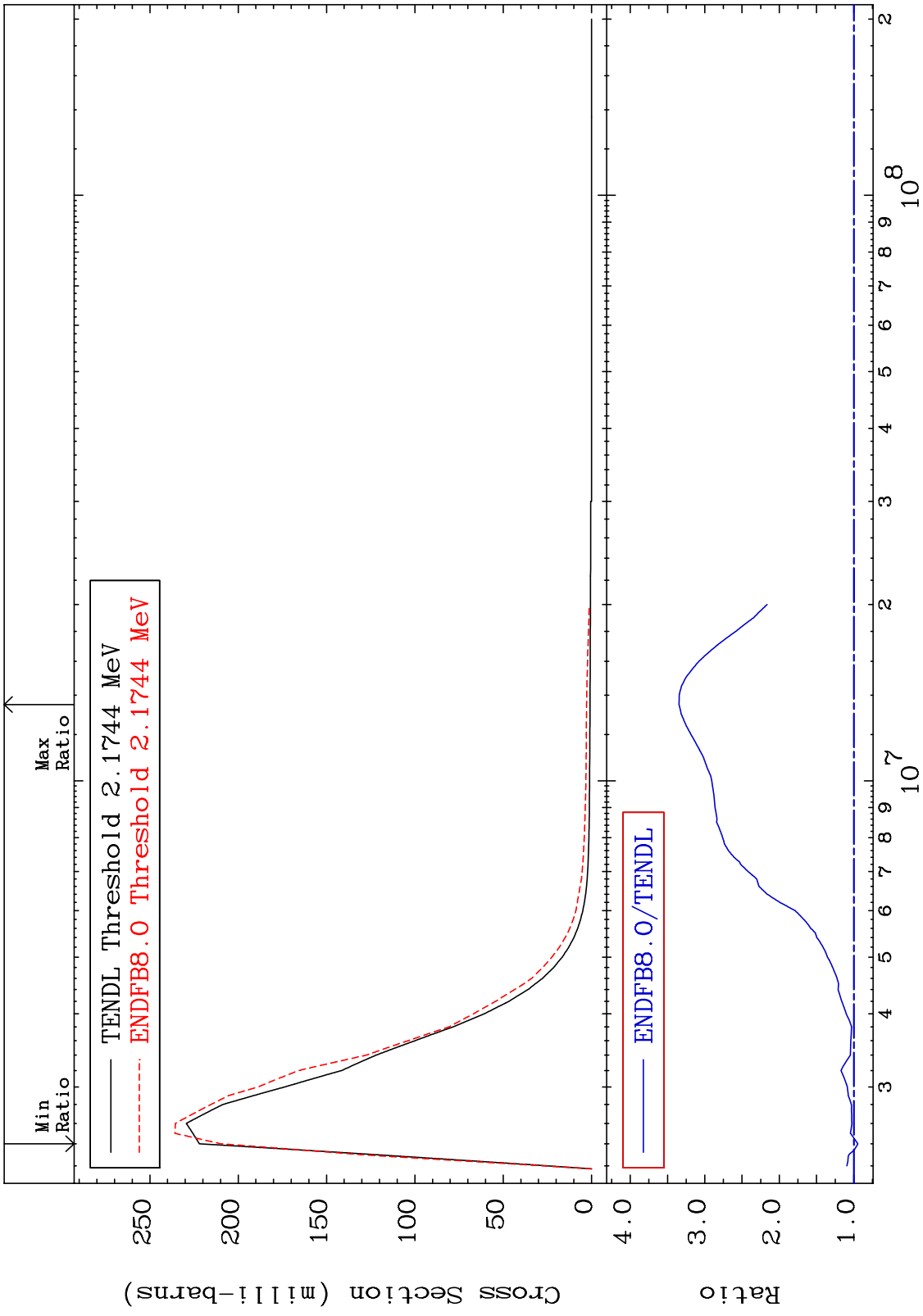
40-Zr-94
-12.11 To 869.2 %



MAT 4037 MT= 55 (n,n') Level Cross Section 40-Zr-94 -51.73 To -0.685%



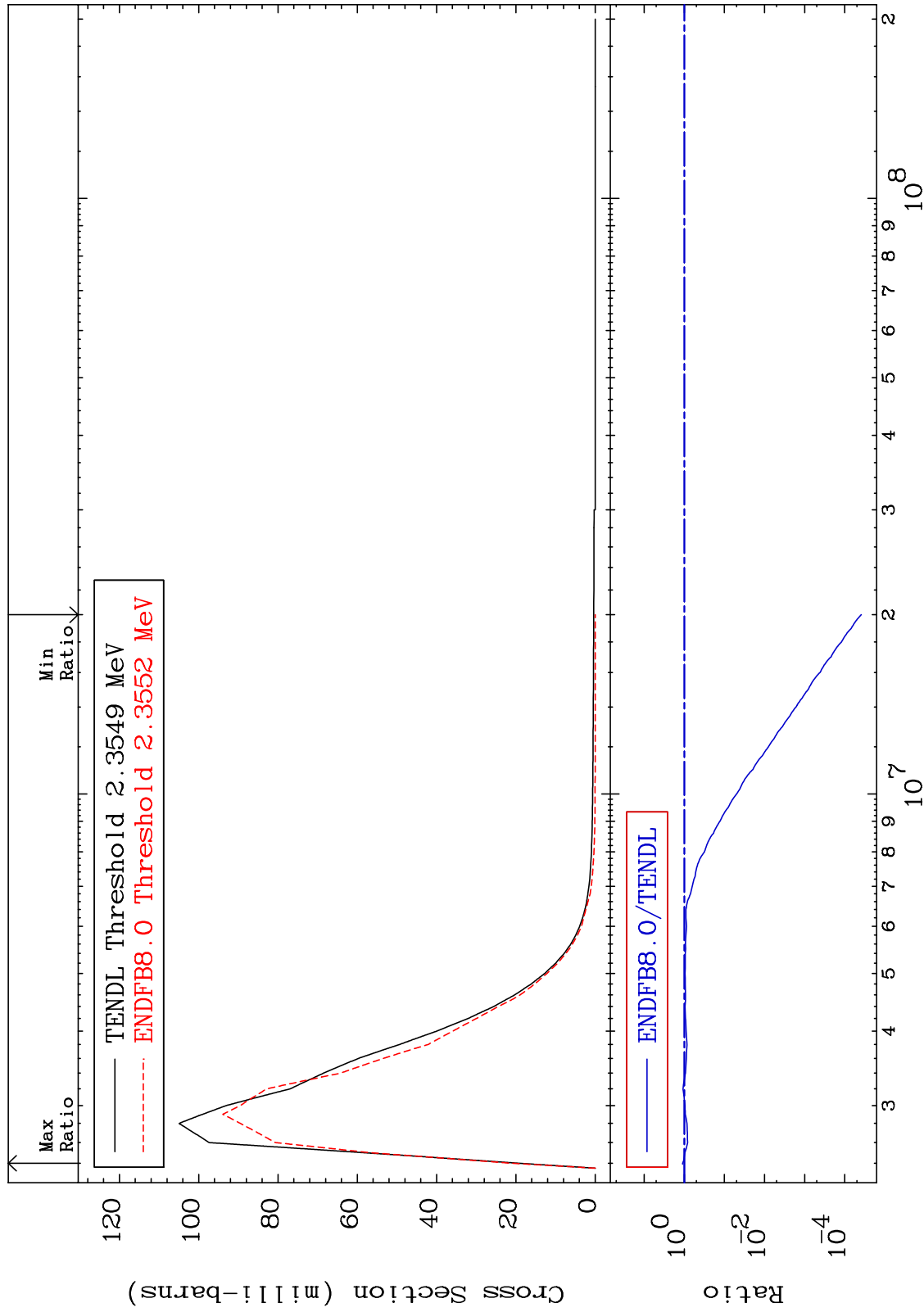
MAT 4037 MT= 56 (n,n') Level Cross Section -5.428 To 234.6 % 40-Zr-94



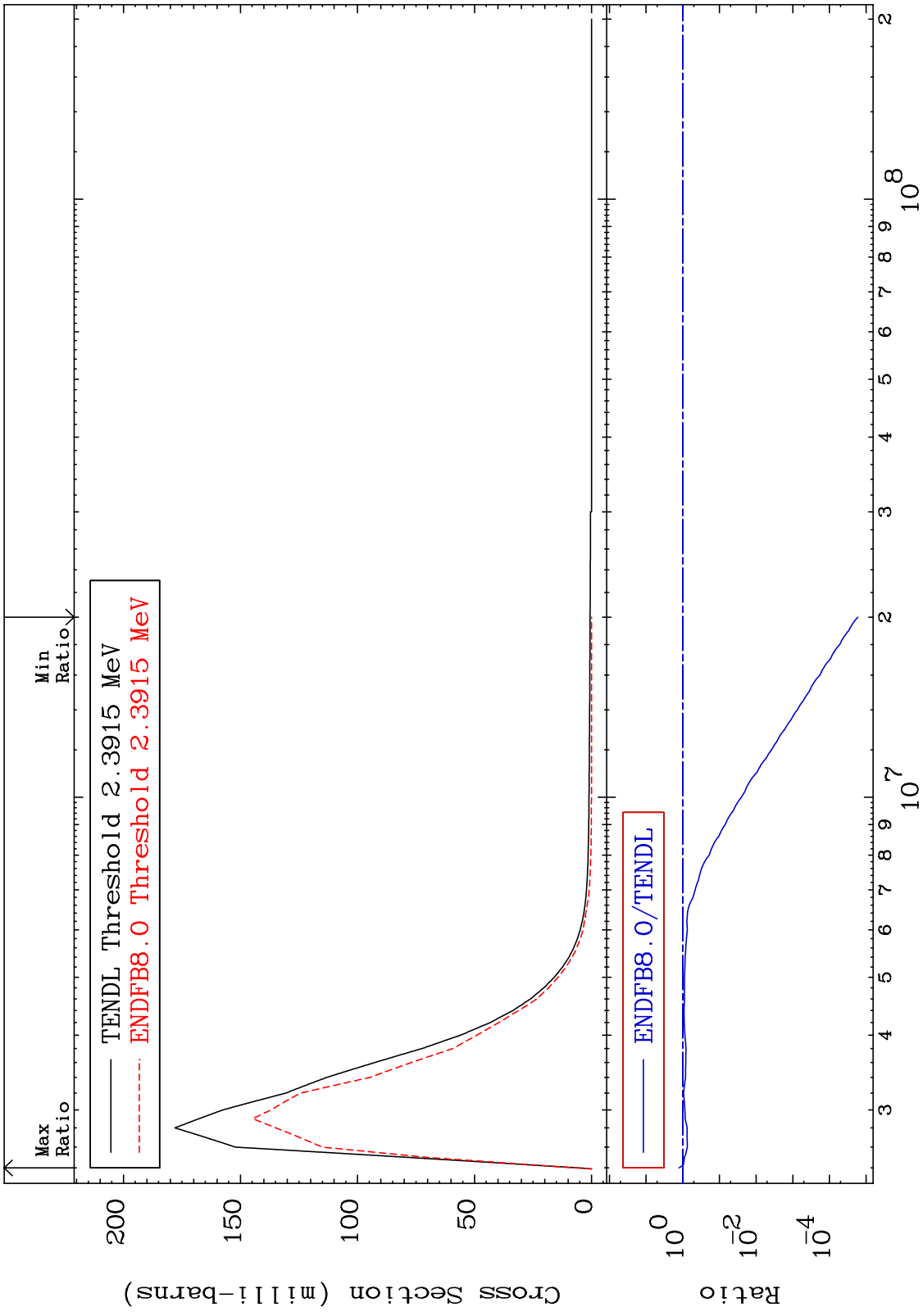
MAT 4037

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

40-Zr-94
-100.0 To 9.723 %



MAT 4037 MT= 58 (n,n') Level Cross Section -100.0 To 26.02 % 40-Zr-94

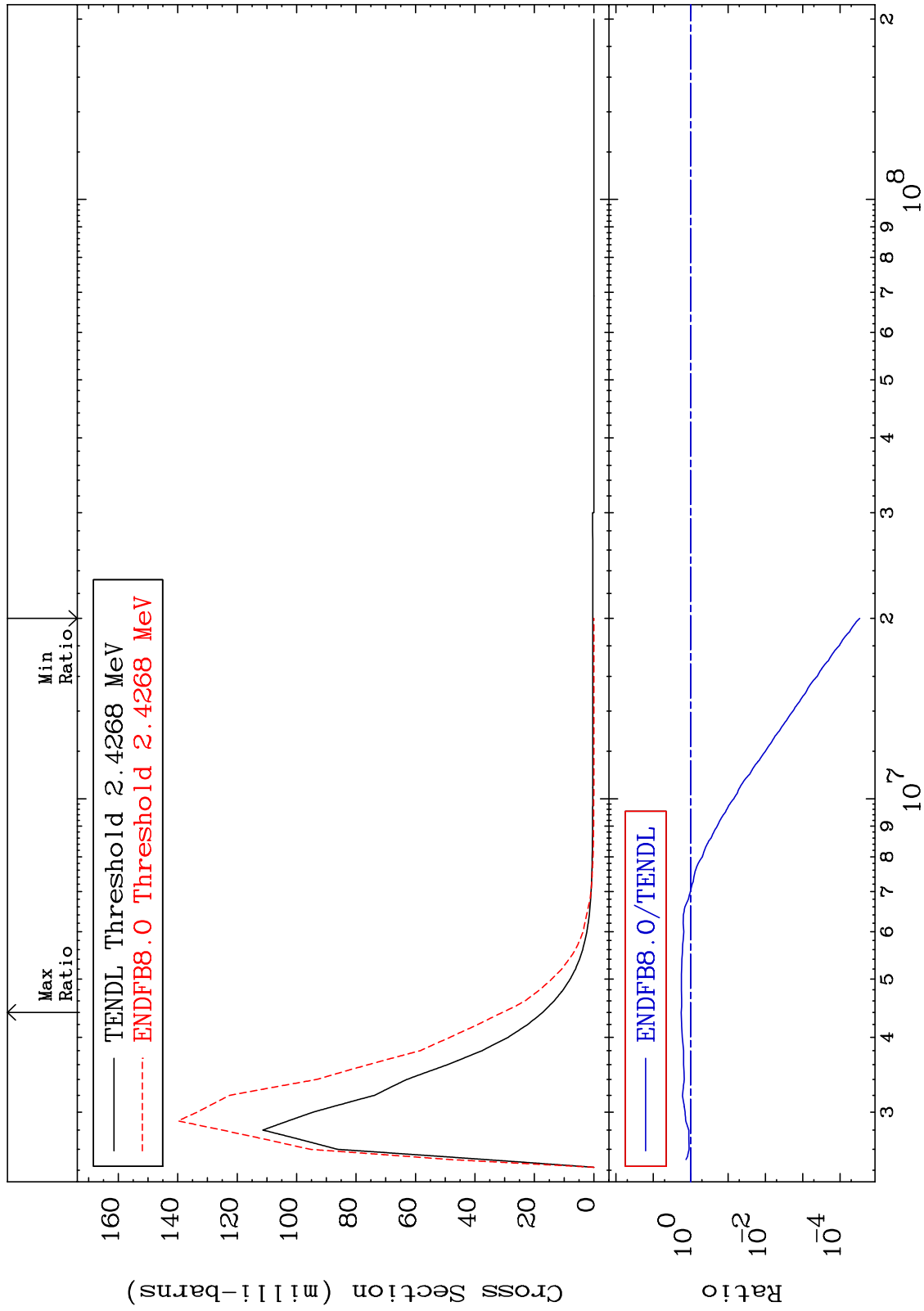


17 Incident Energy (eV) 40-Zr-94

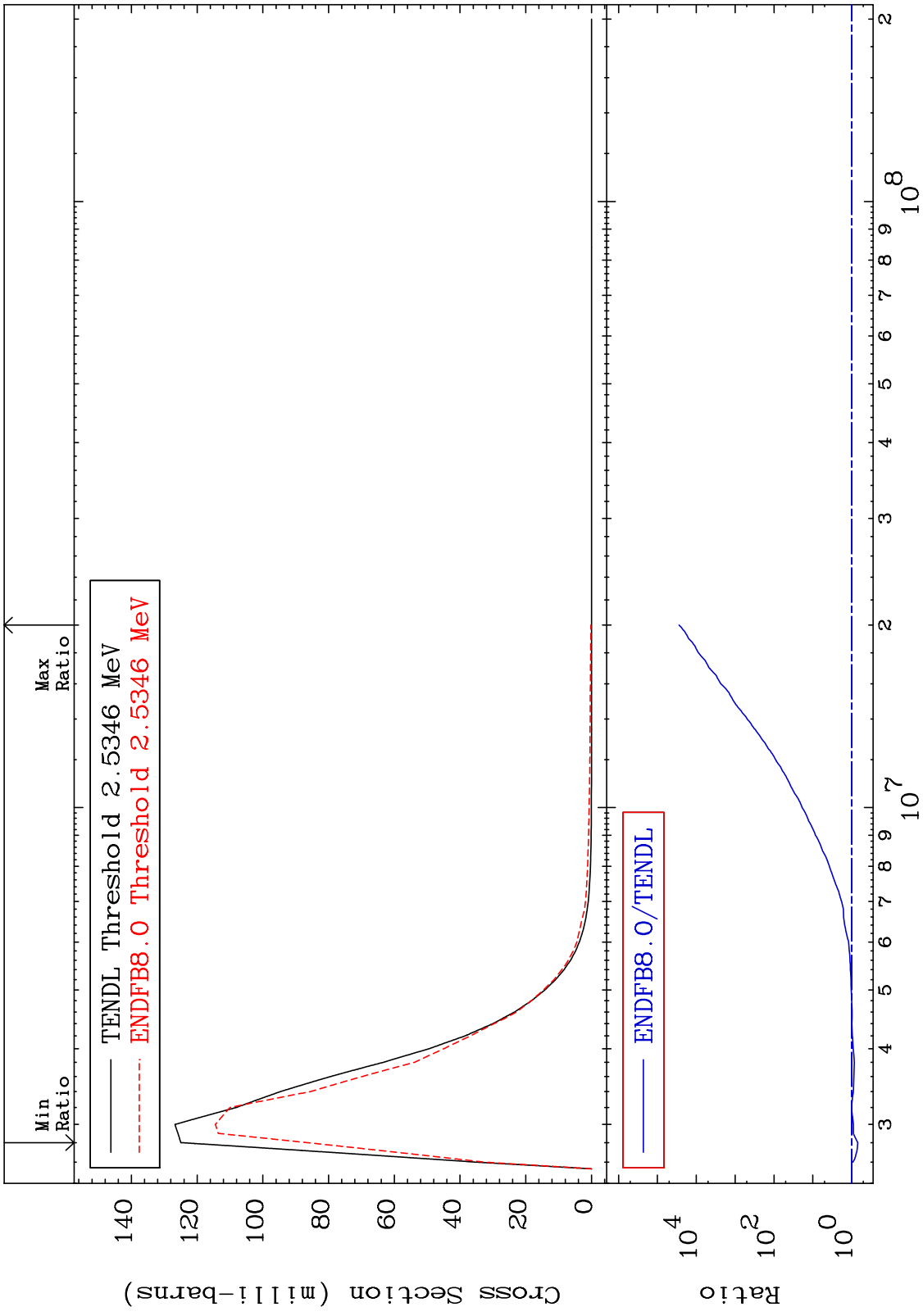
MAT 4037

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

40-Zr-94
-100.0 To 78.70 %



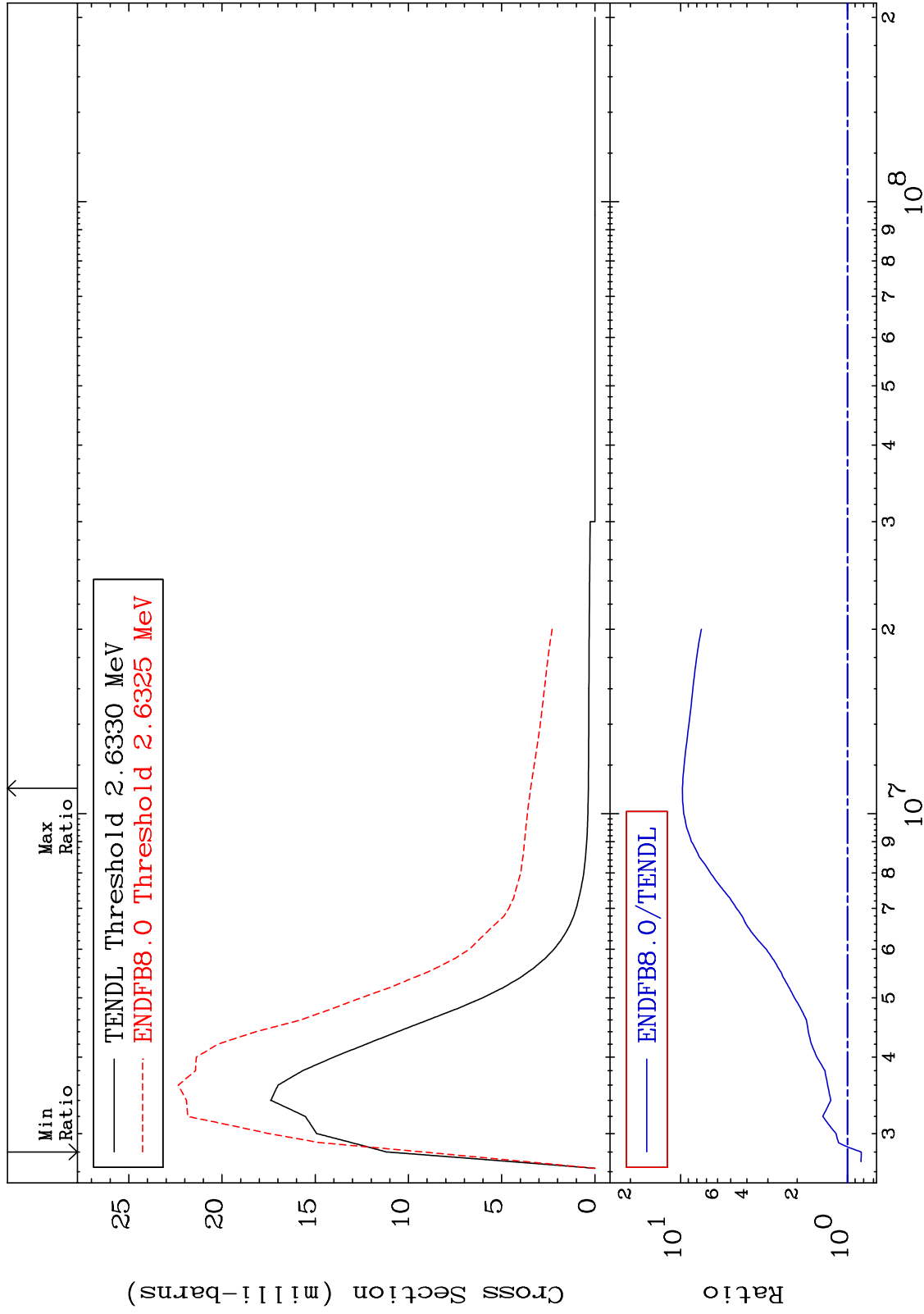
MAT 4037 MT= 60 (n,n') Level Cross Section 40-Zr-94
 -30.71 To 9999. %



MAT 4037

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

40-Zr-94
-17.29 To 874.1 %

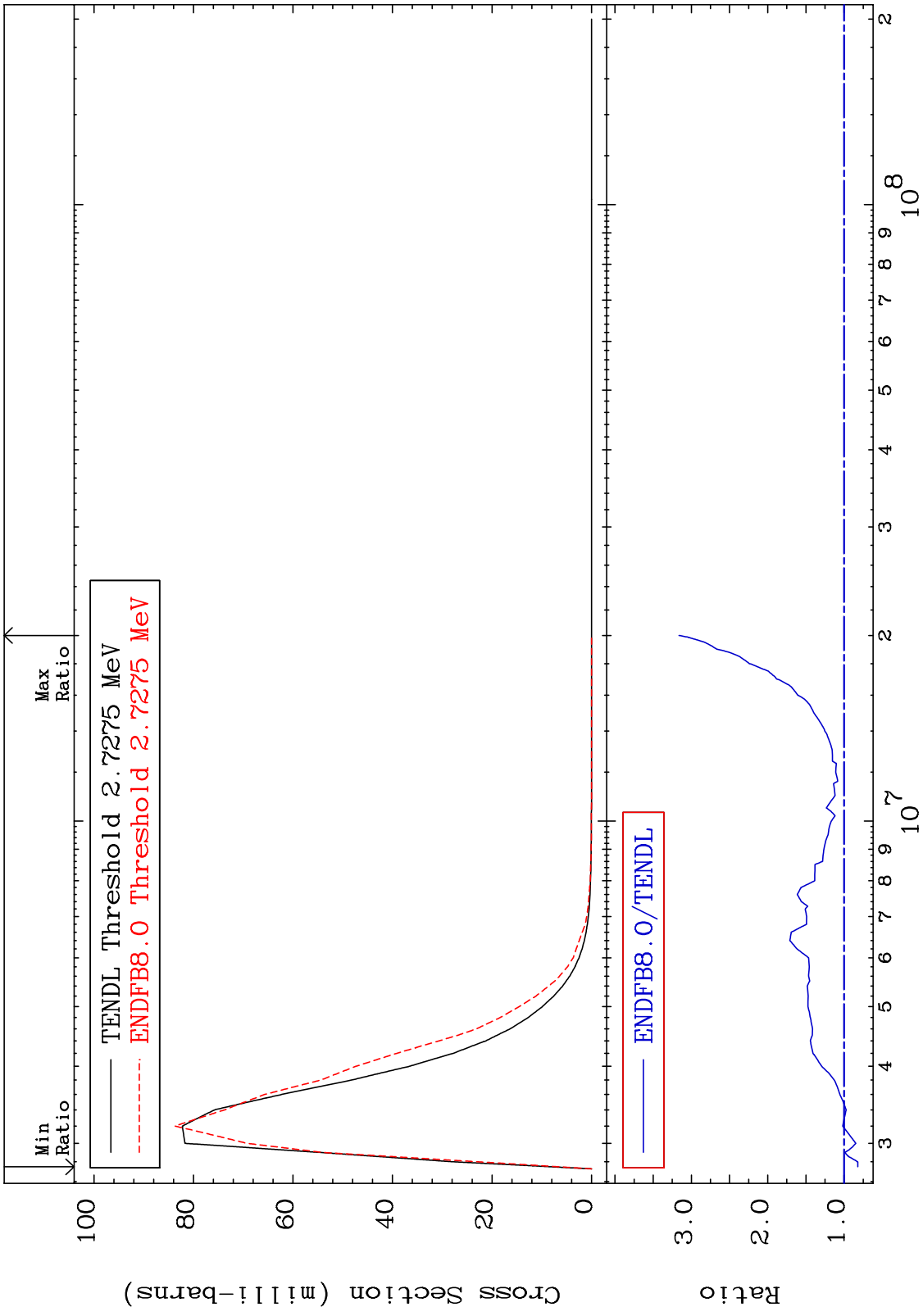


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Incident Energy (eV)

40-Zr-94

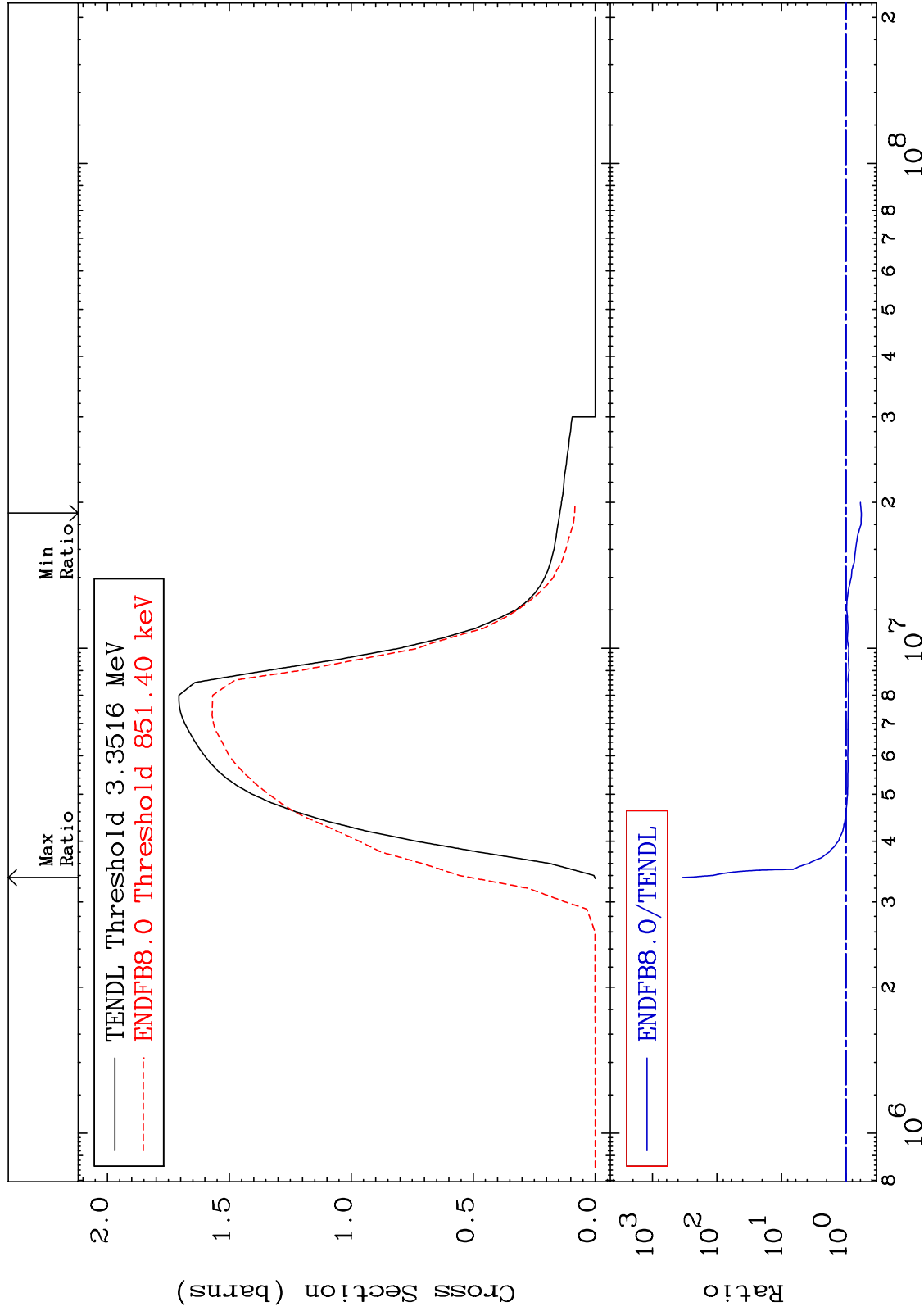
MAT 4037 MT= 62 (n,n') Level Cross Section -18.04 To 216.1 % 40-Zr-94



MAT 4037

(n, n') Continuum
Cross Section

40-Zr-94
-42.08 To 9999. %



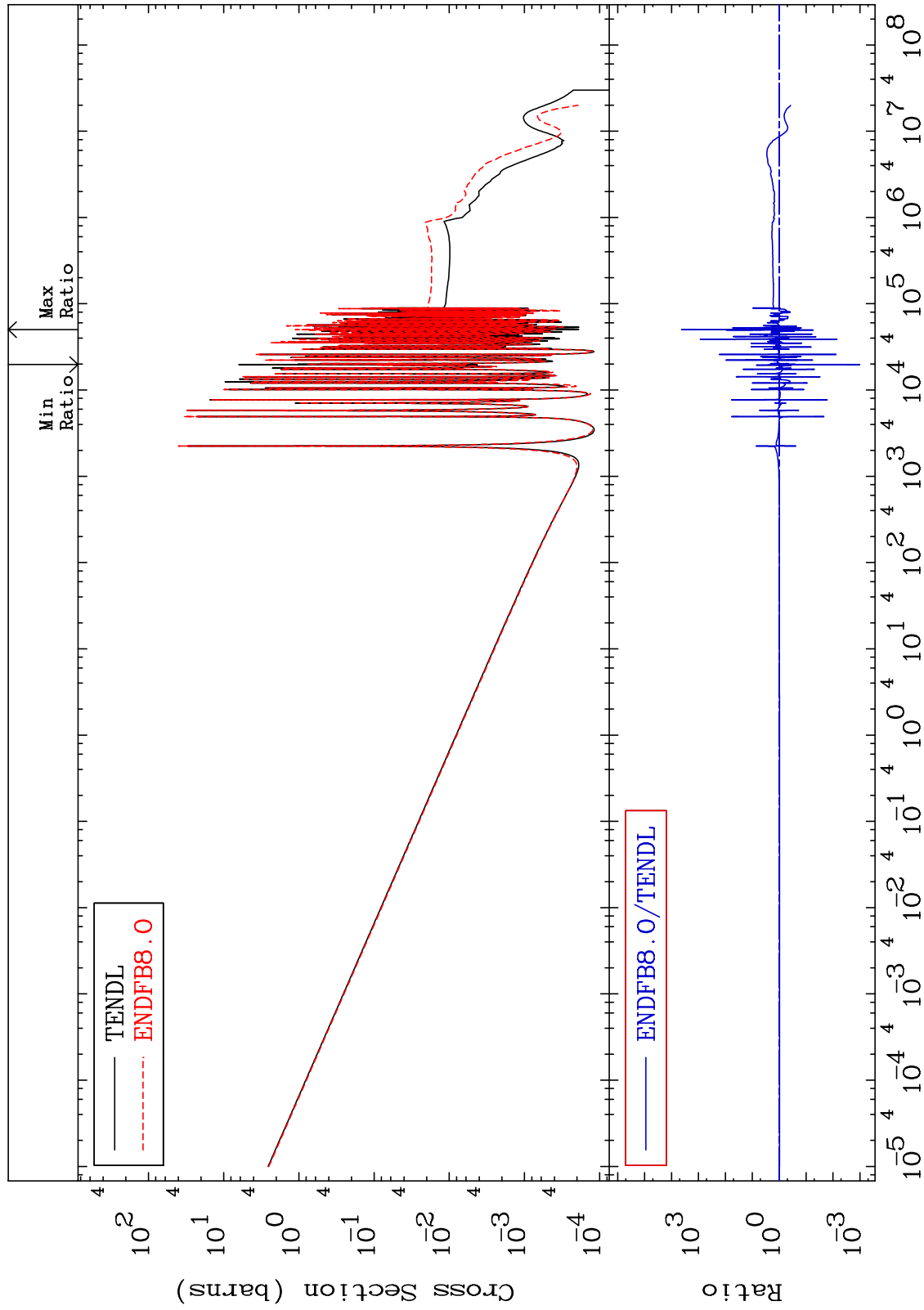
MAT 4037

(n, γ)

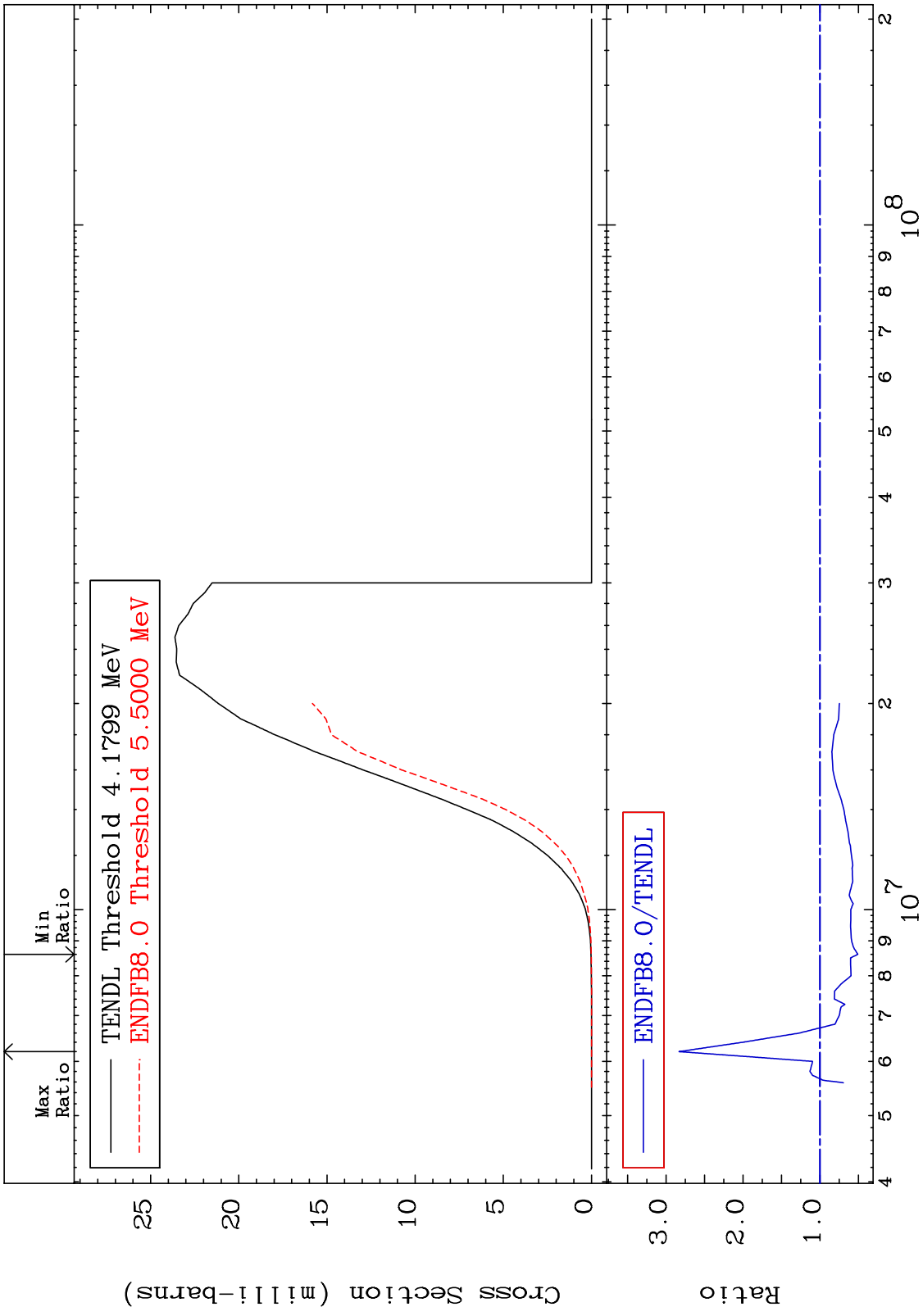
40-Zr-94

Cross Section

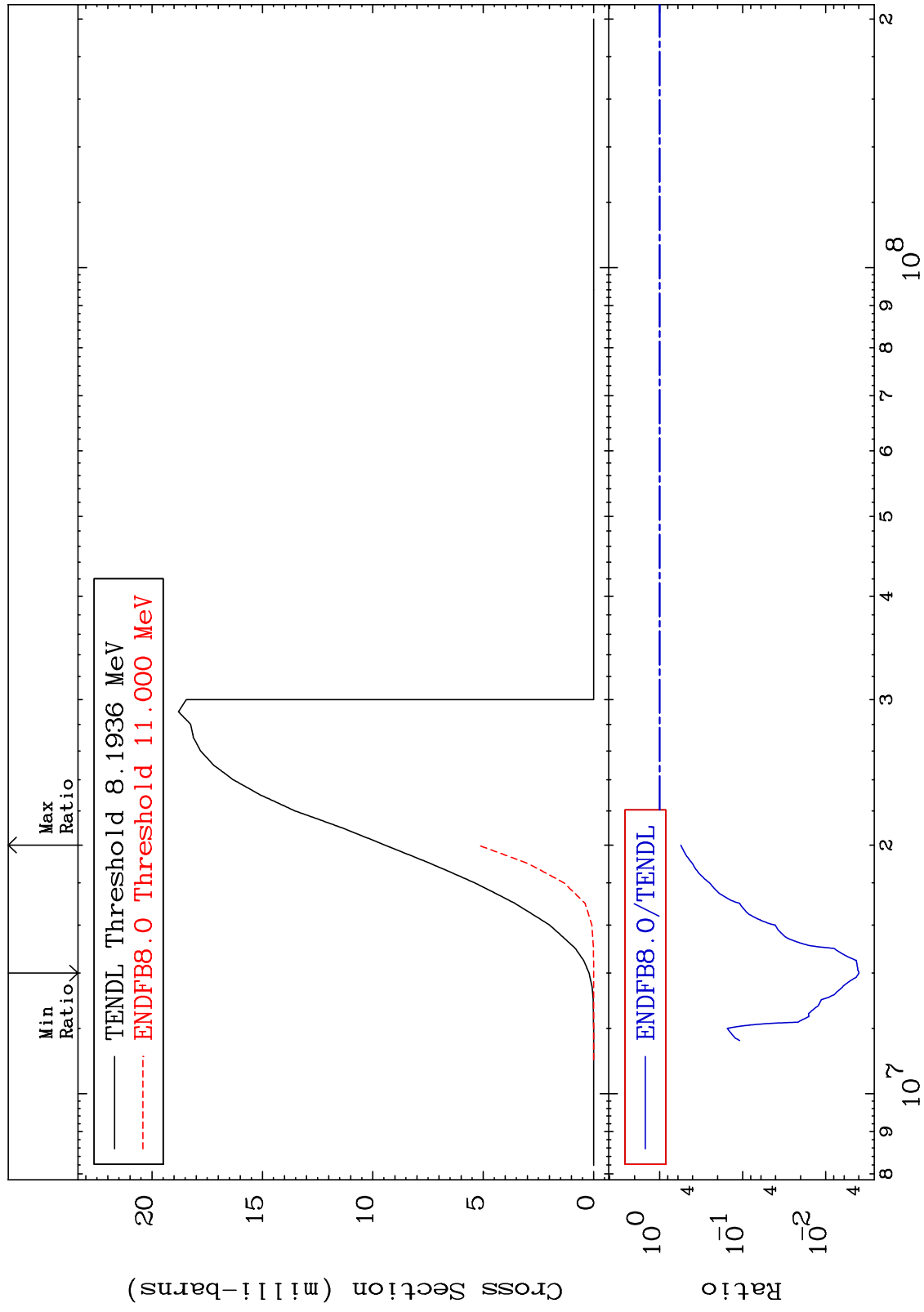
-99.90 To 9999. %



MAT 4037 (n,p) Cross Section 40-Zr-94 -49.28 To 183.1 %



MAT 4037 (n,d) Cross Section 40-Zr-94 -99.60 To -44.56%



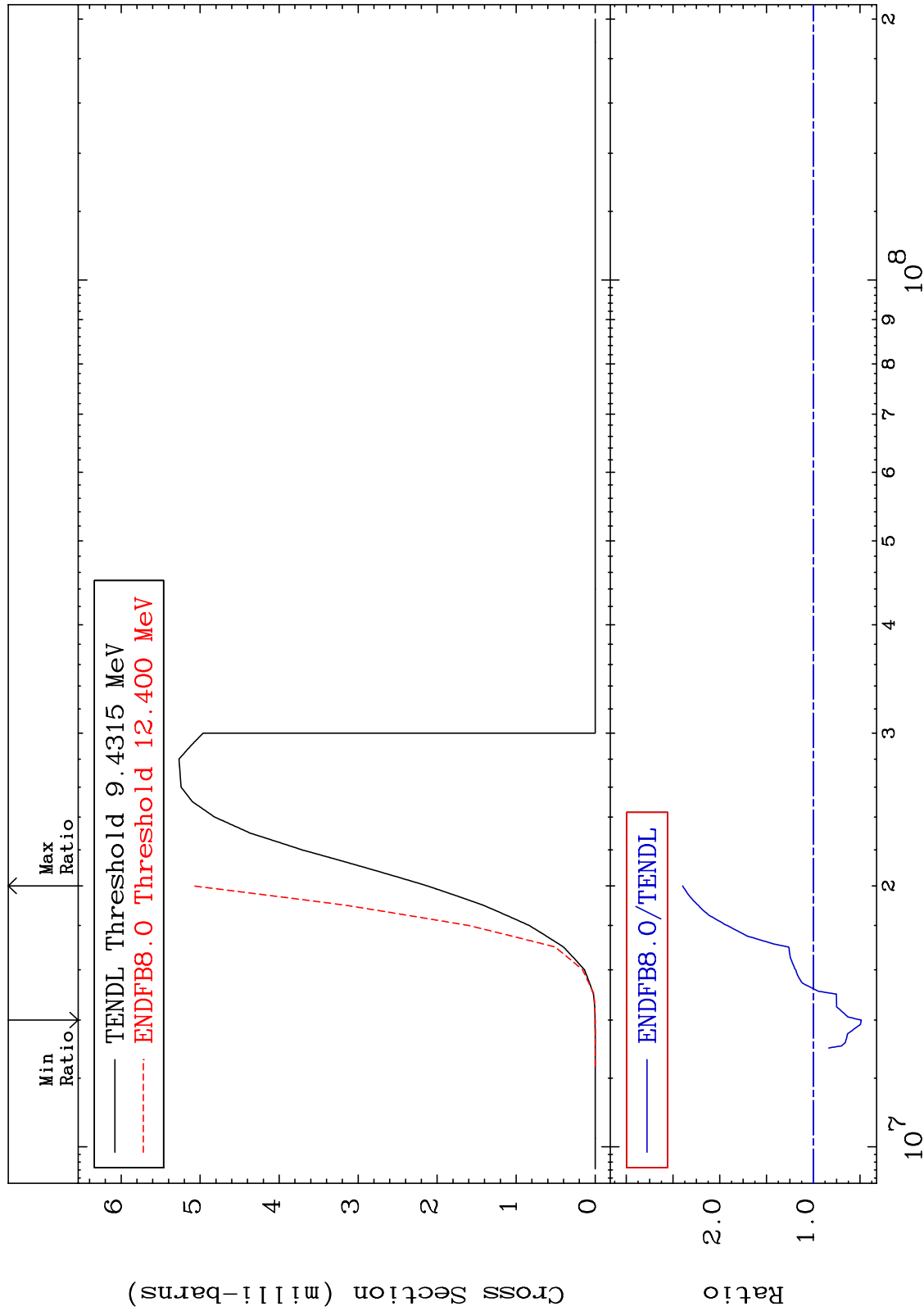
MAT 4037

(n,t)

40-Zr-94

Cross Section

-51.41 To 139.7 %



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Incident Energy (eV)

40-Zr-94

MAT 4037

(n, α)

40-Zr-94

Cross Section

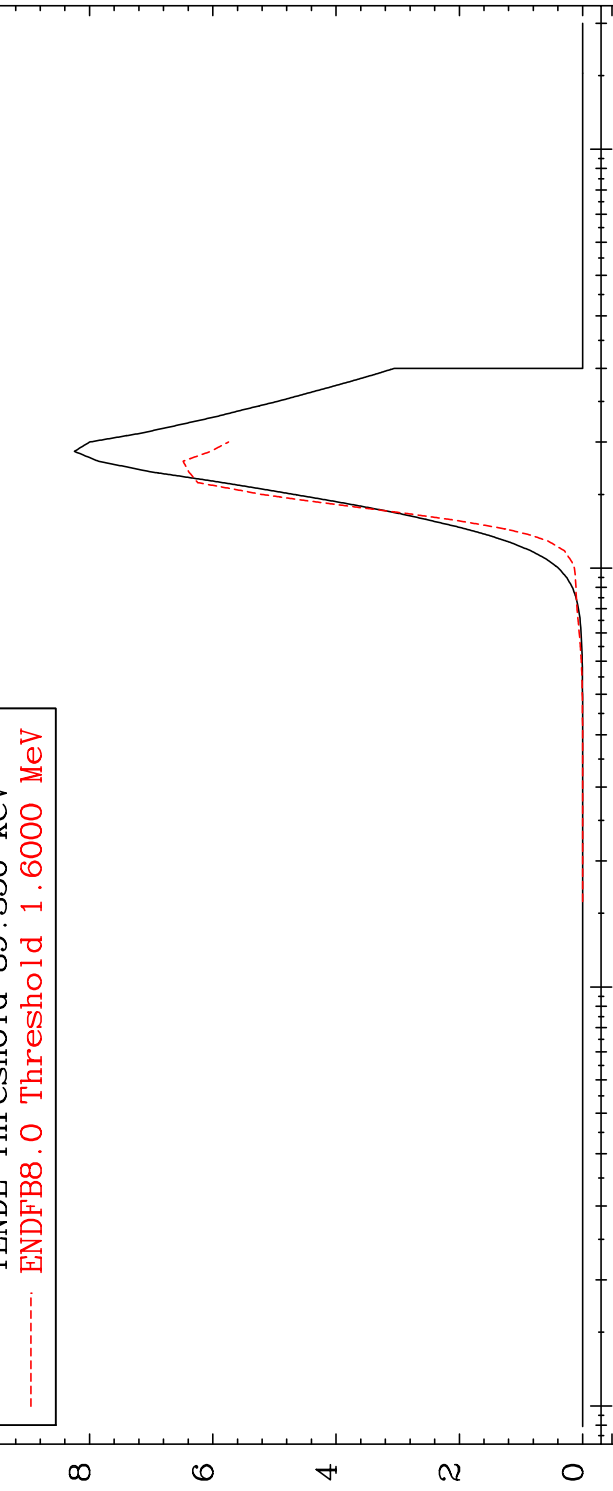
-68.20 To 2120. %

Max Ratio

Min Ratio

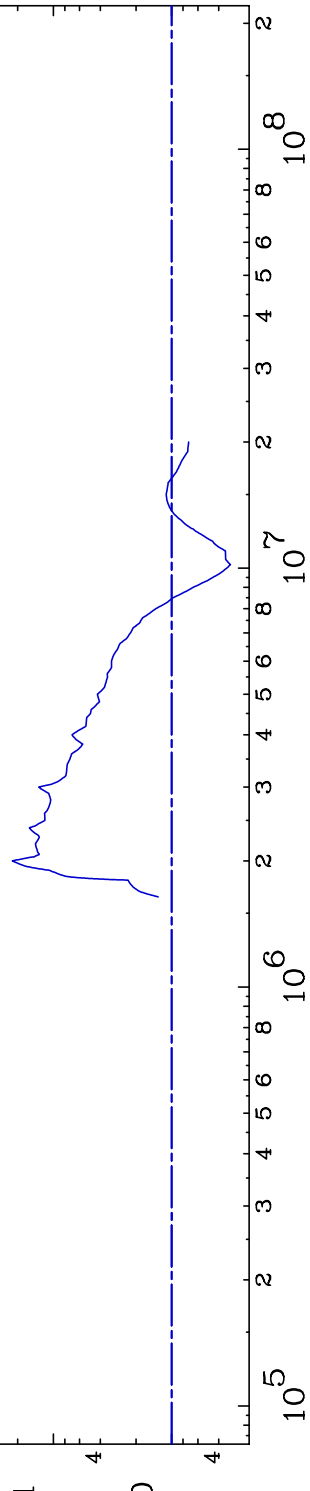
TENDL Threshold 89.350 keV
ENDFB8.0 Threshold 1.6000 MeV

Cross Section (milli-barns)



ENDFB8.0/TENDL

Ratio

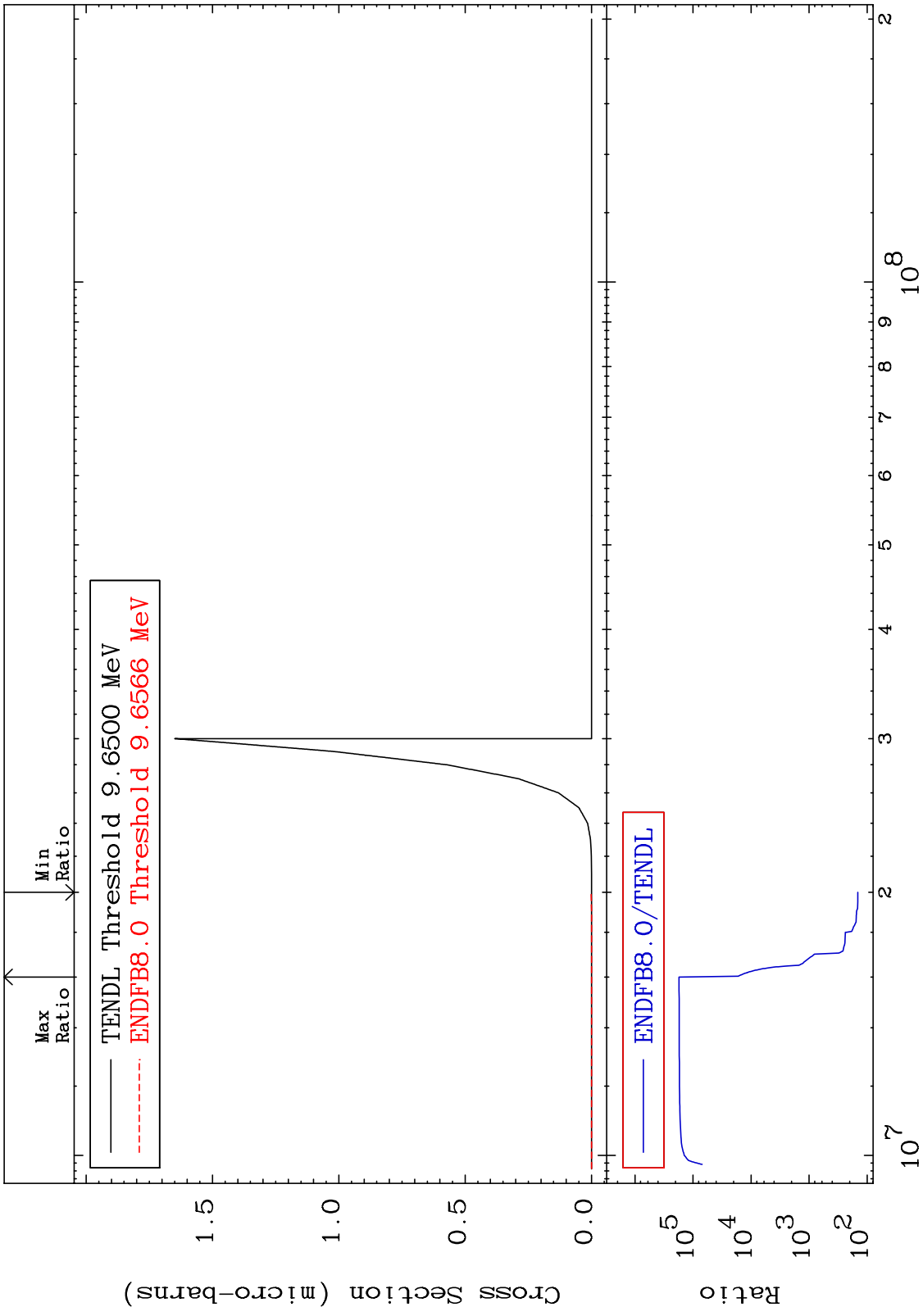


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Incident Energy (eV)

40-Zr-94

MAT 4037 (n,p) α 40-Zr-94
 Cross Section 9999. To 9999. %

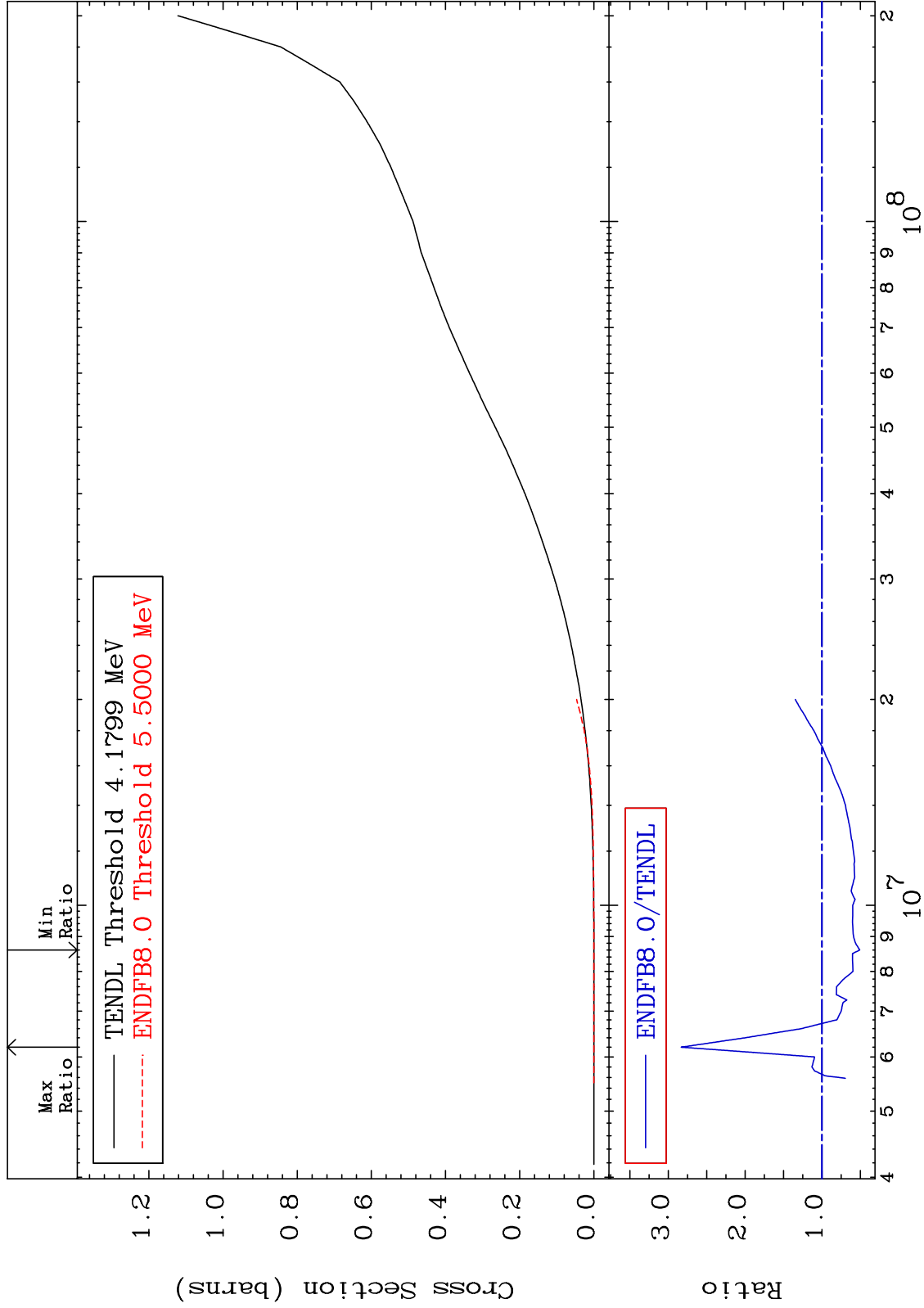


28 40-Zr-94

MAT 4037

Hydrogen Production
Cross Section

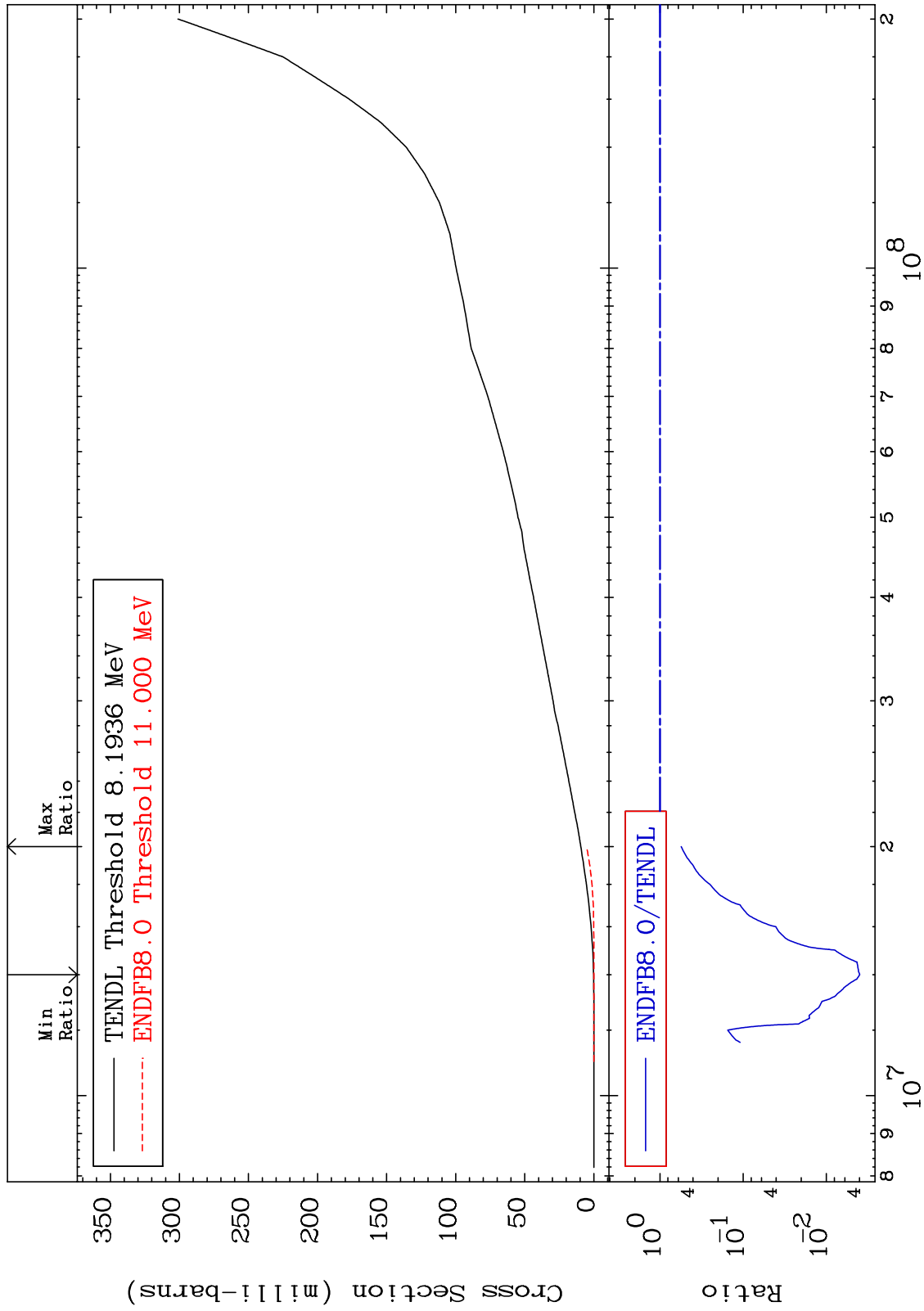
40-Zr-94
-49.28 To 183.1 %



MAT 4037

Deuterium Production Cross Section

40-Zr-94
-99.60 To -44.60%



30

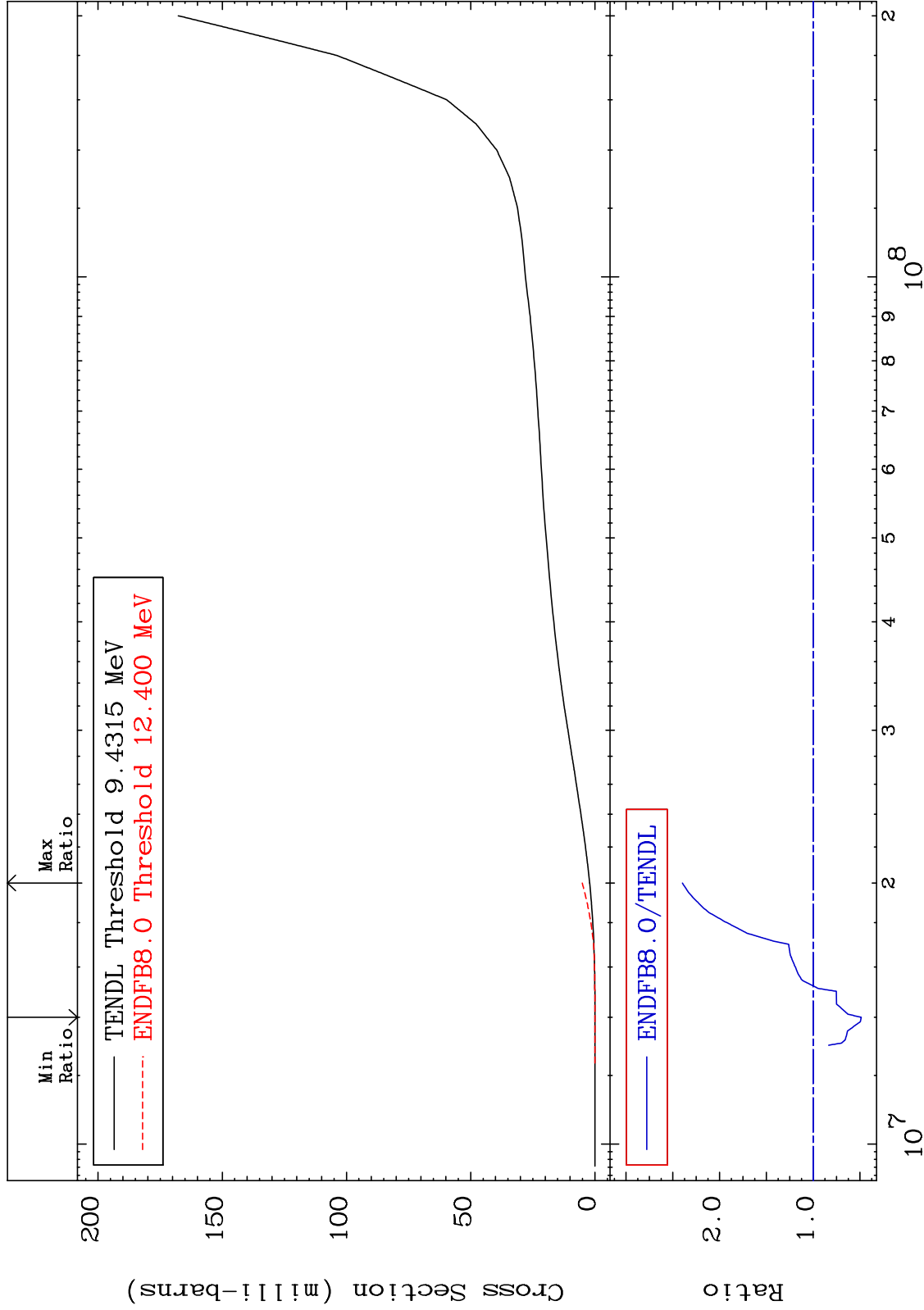
Incident Energy (eV)

40-Zr-94

MAT 4037

Tritium Production
Cross Section

40-Zr-94
-51.41 To 139.7 %



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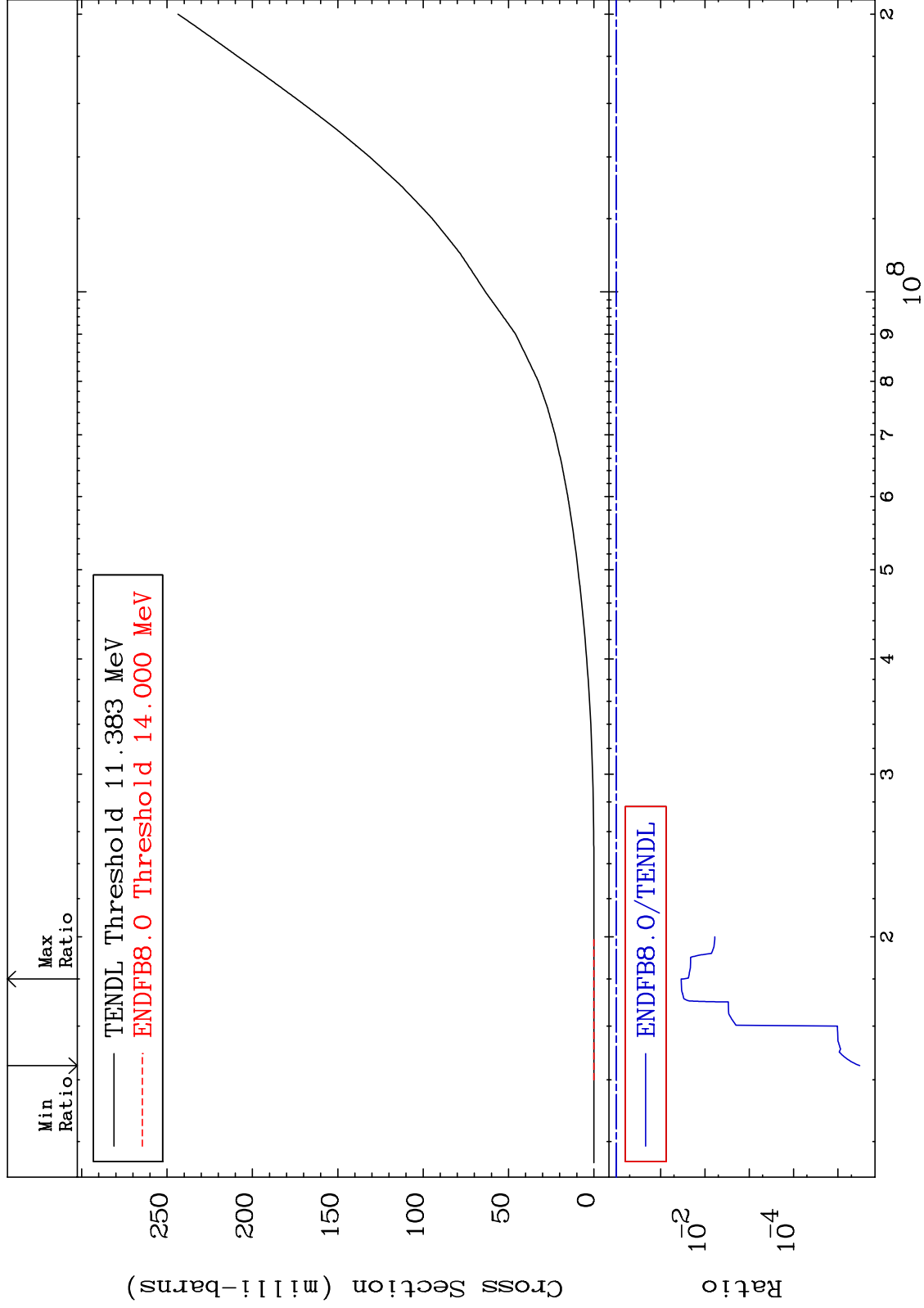
Incident Energy (eV)

40-Zr-94

MAT 4037

He-3 Production
Cross Section

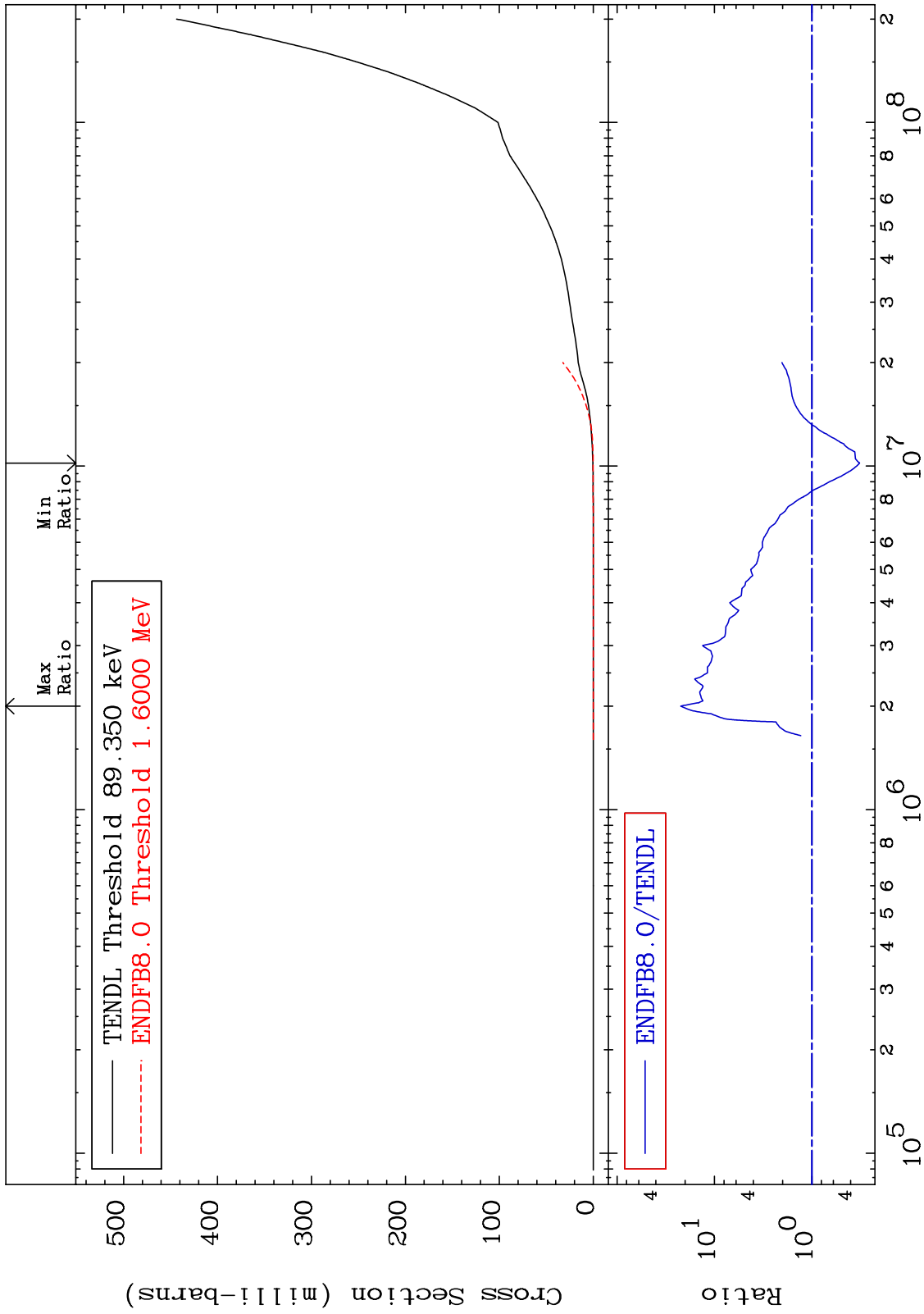
40-Zr-94
-100.0 To -96.58%

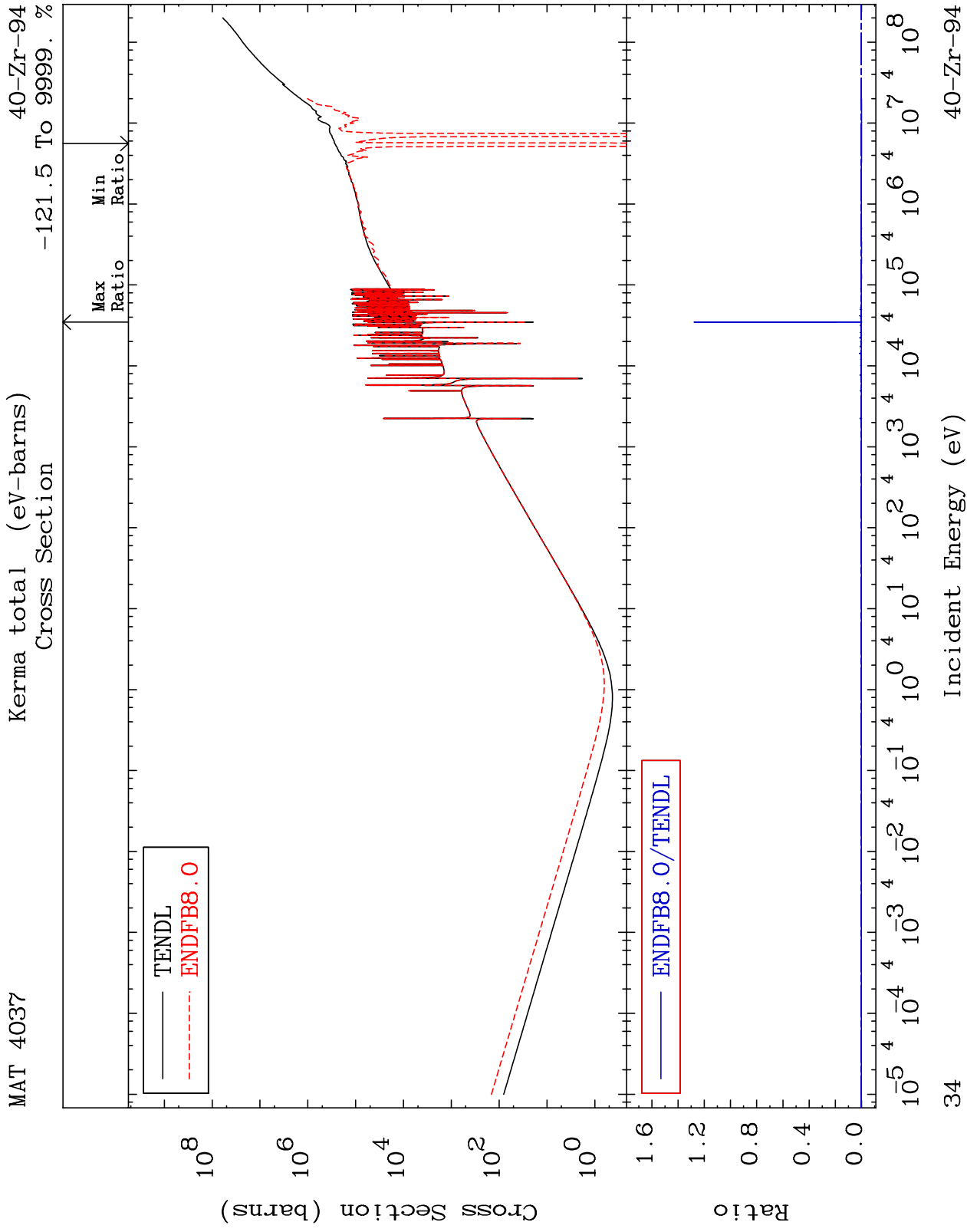


MAT 4037

He-4 Production
Cross Section

40-Zr-94
-67.73 To 2120. %

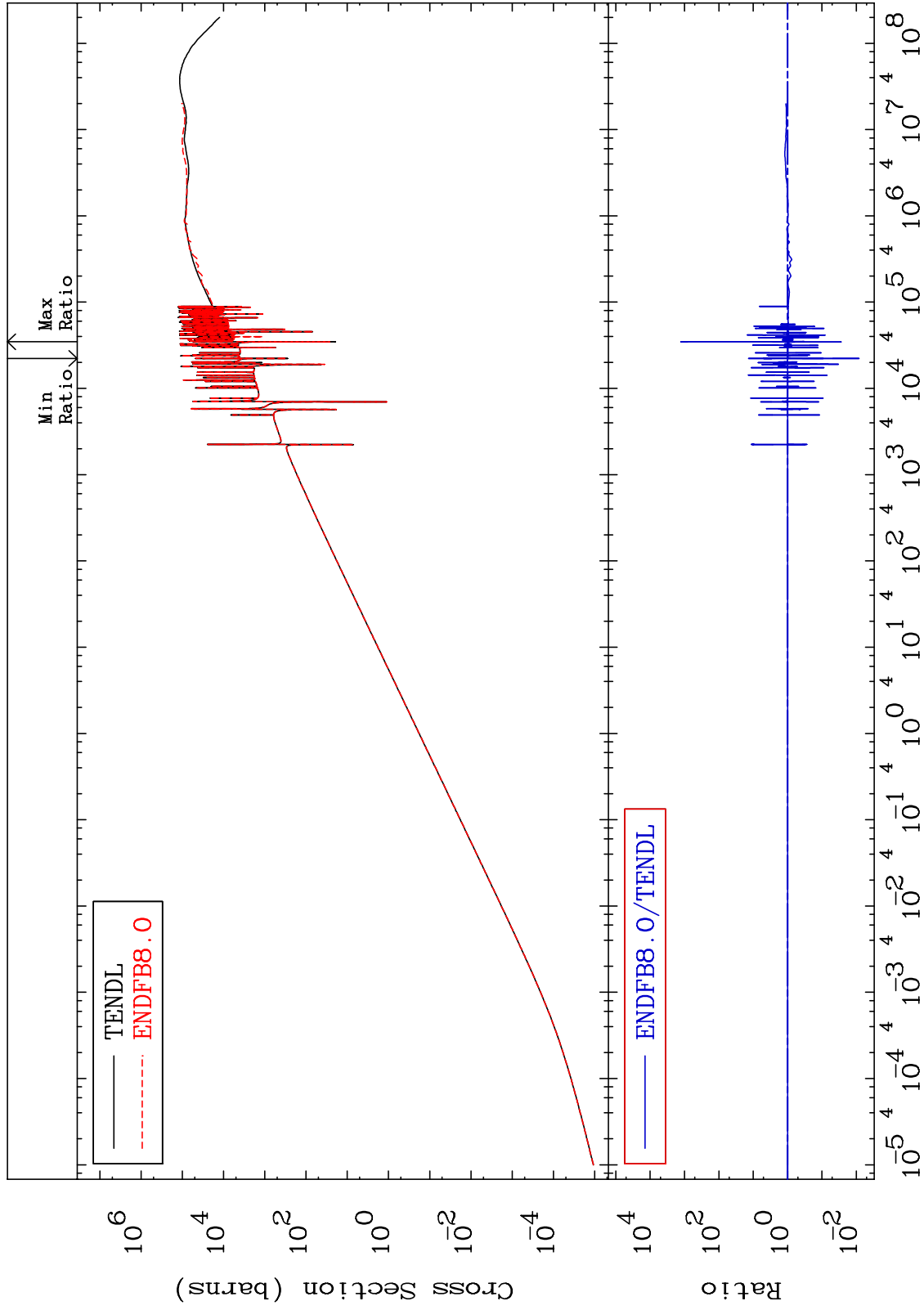




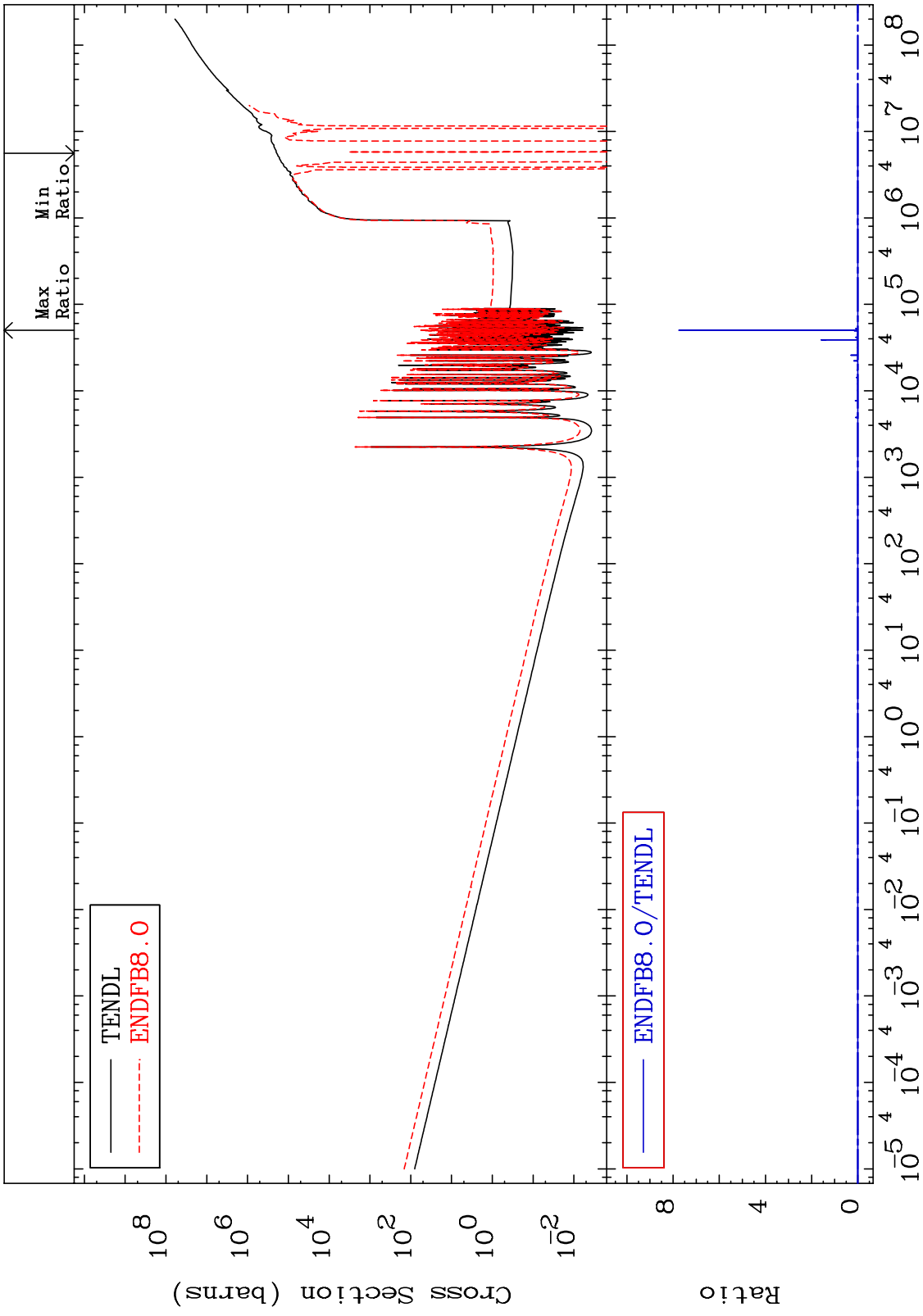
MAT 4037

Kerma elastic
Cross Section

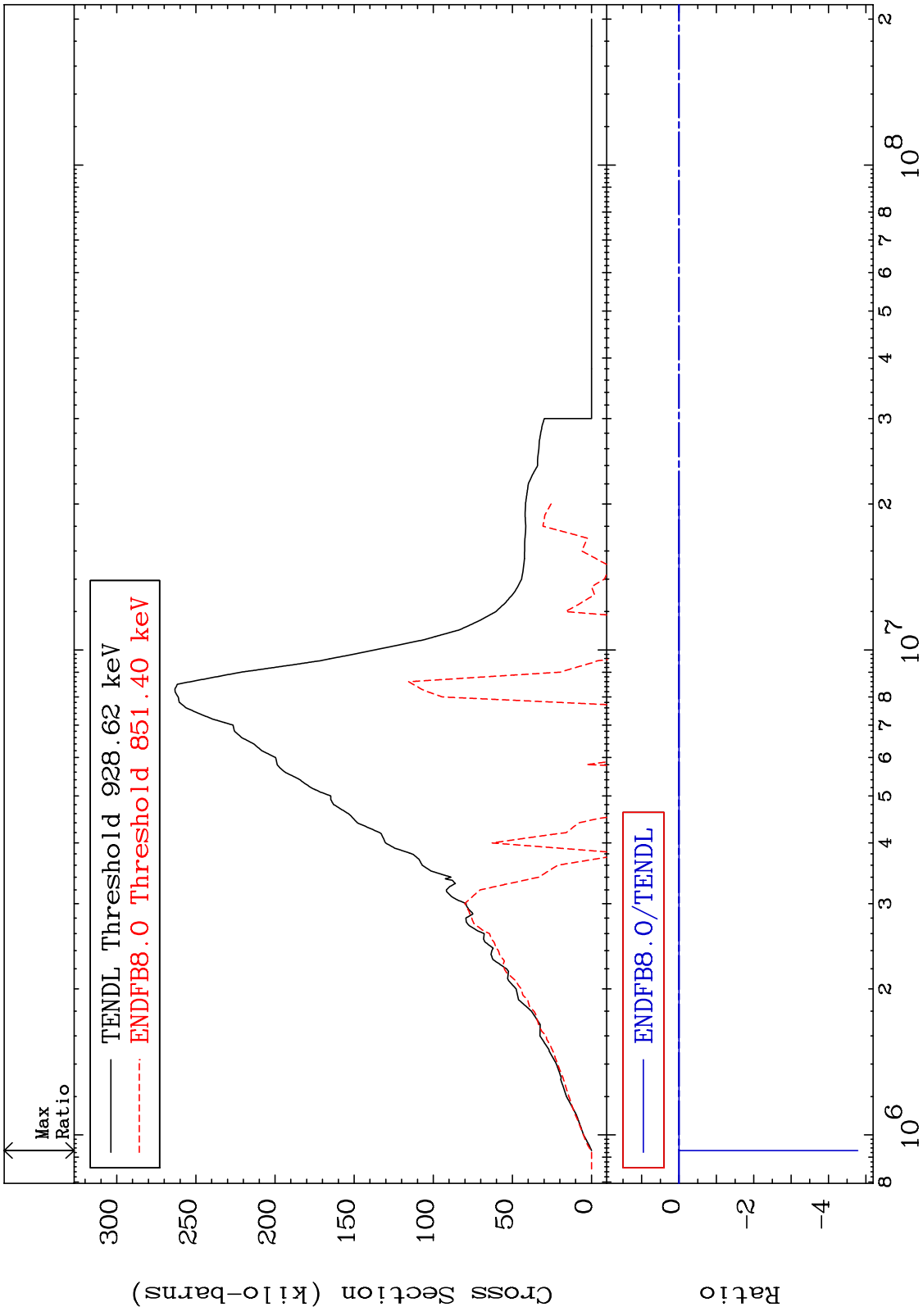
40-Zr-94
-99.17 To 9999. %



MAT 4037 Kerma non-elastic (all but mt2) Cross Section 40-Zr-94
 -180.5 To 9999. %



MAT 4037 Kerma inelastic (mt51-91) 40-Zr-94
 Cross Section -9999. To 9999. %

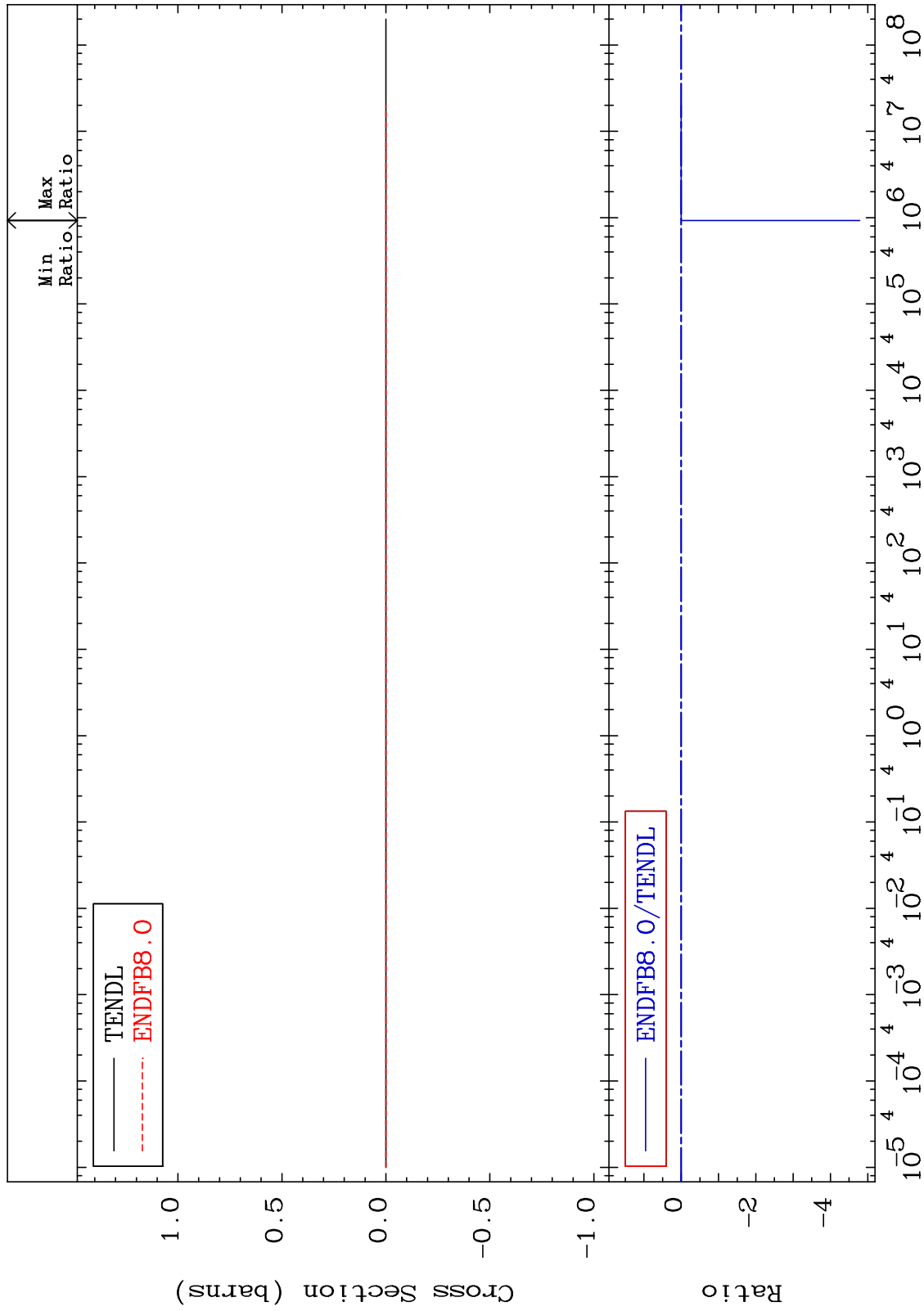


37 Incident Energy (eV) 40-Zr-94

MAT 4037

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

40-Zr-94
-9999. To 9999. %

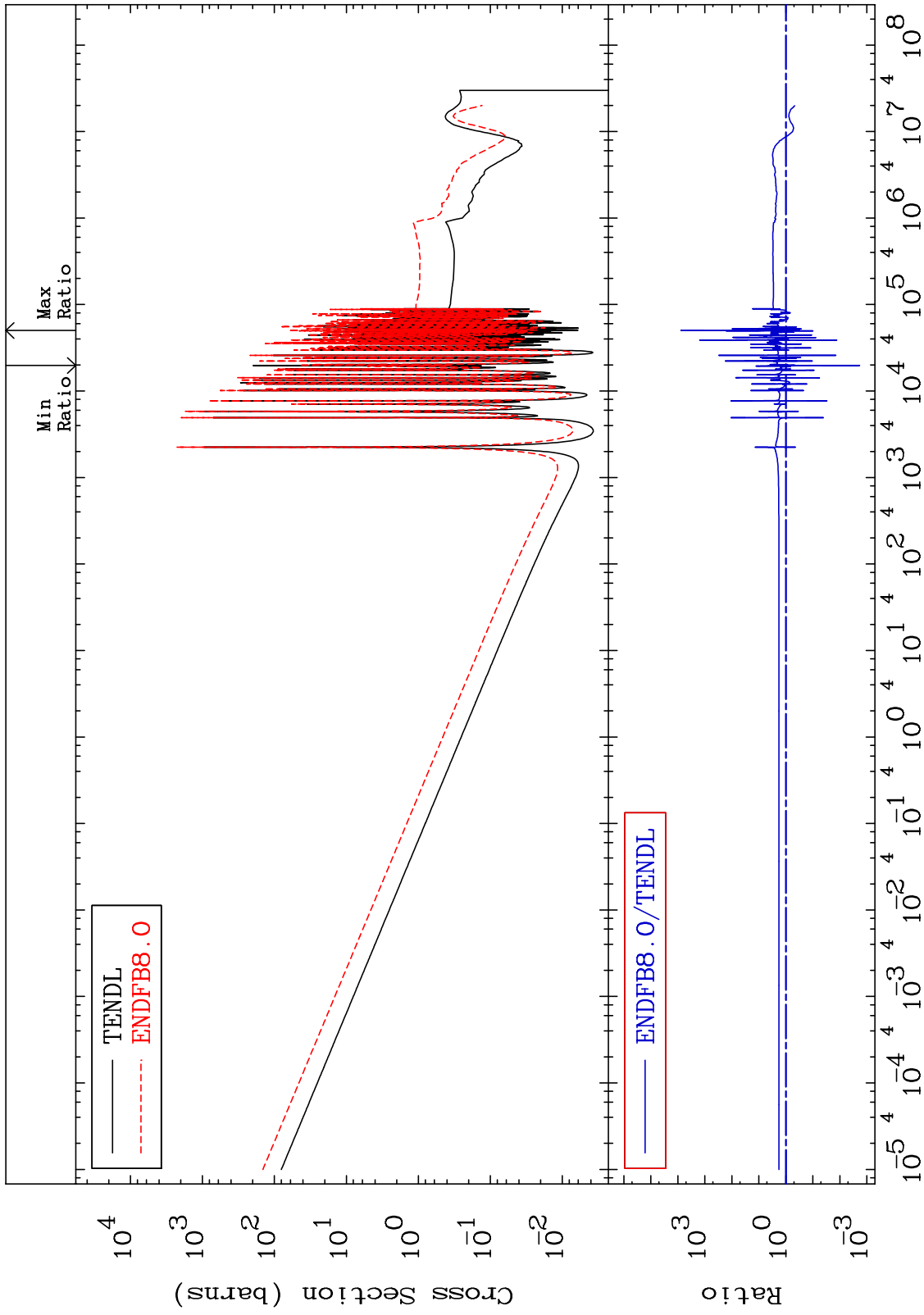


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MAT 4037

Kerma capture (mt102)
Cross Section

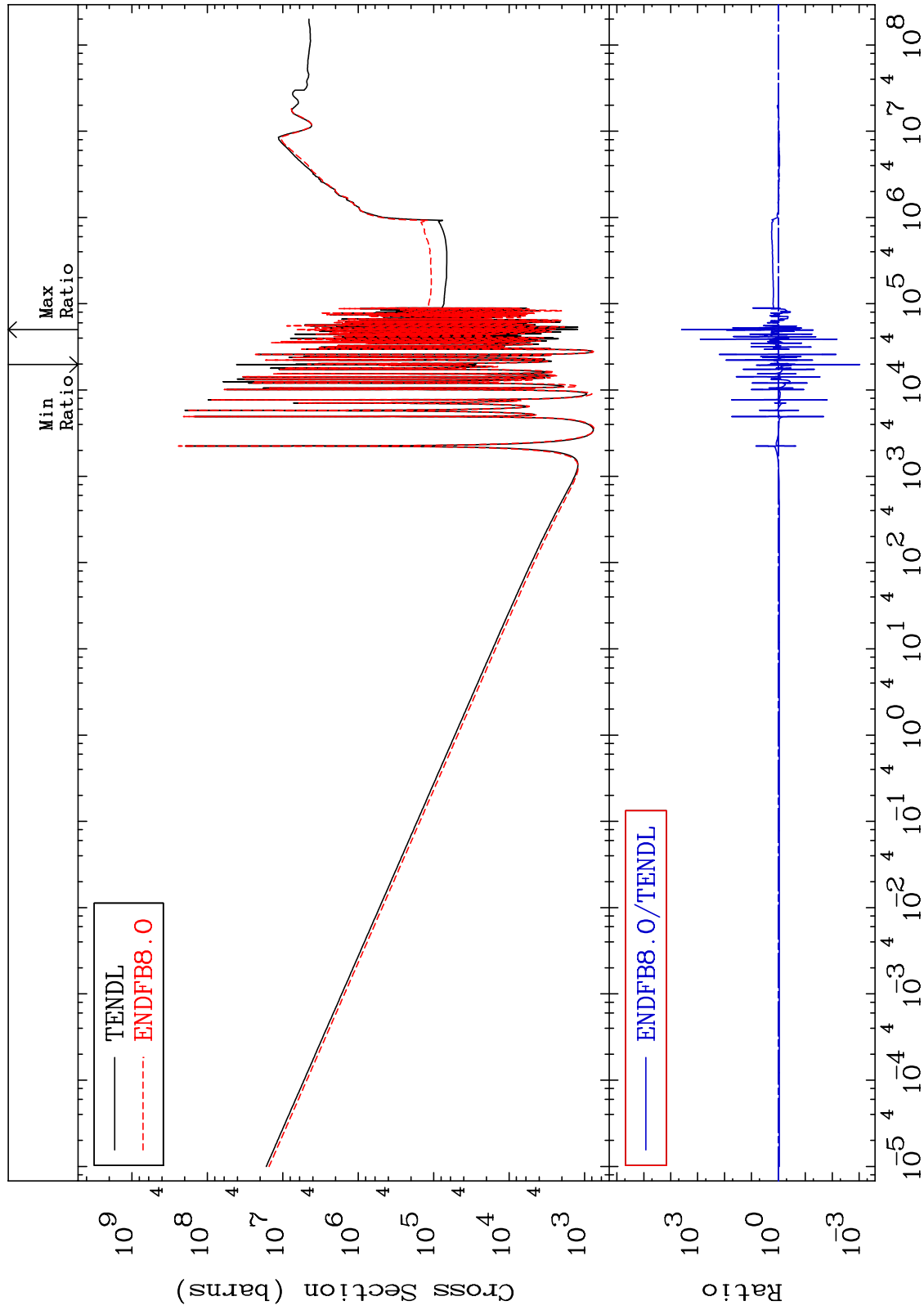
40-Zr-94
-99.81 To 9999. %



MAT 4037

Total photon (eV-barns)
Cross Section

40-Zr-94
-99.91 To 9999. %

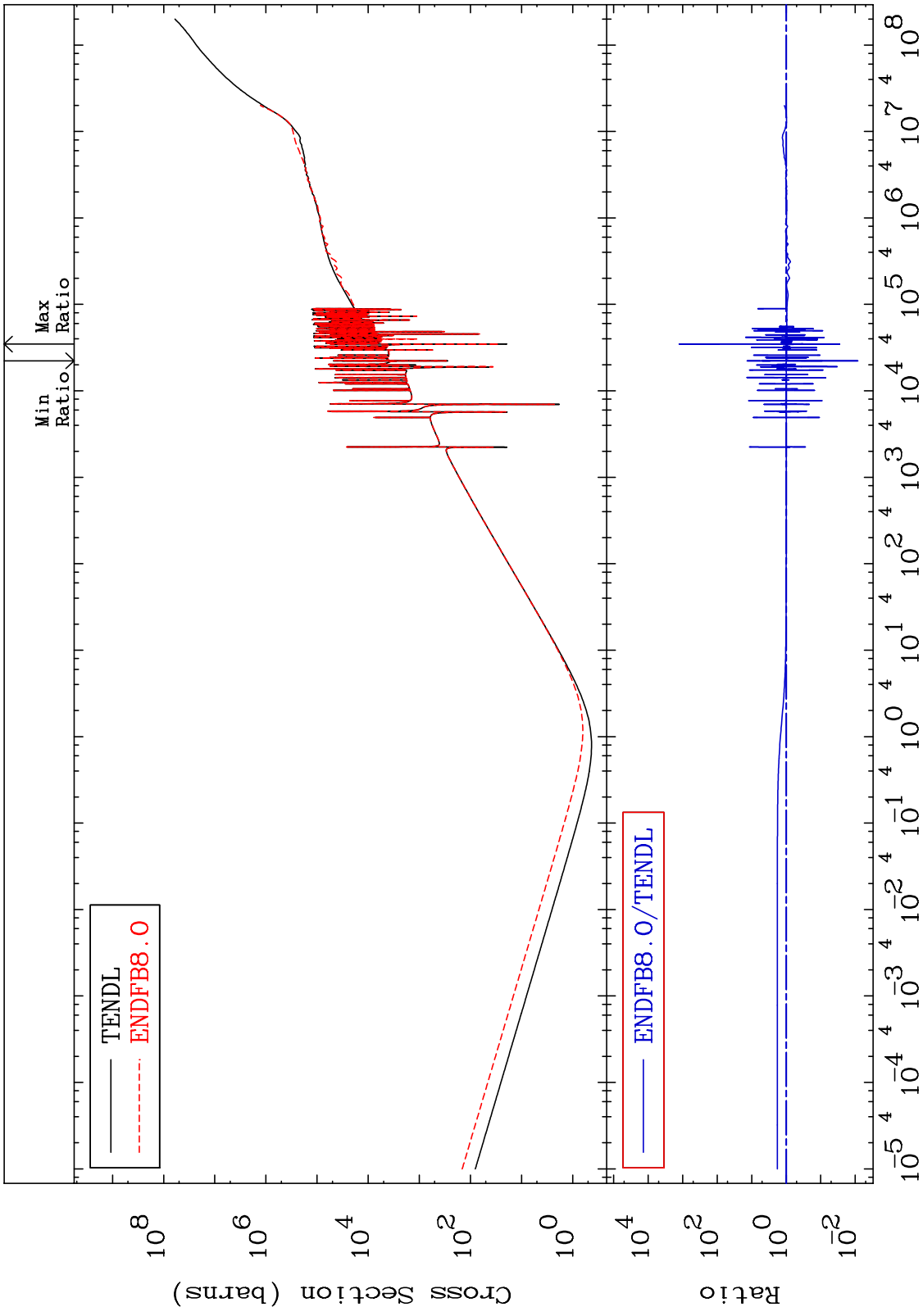


40

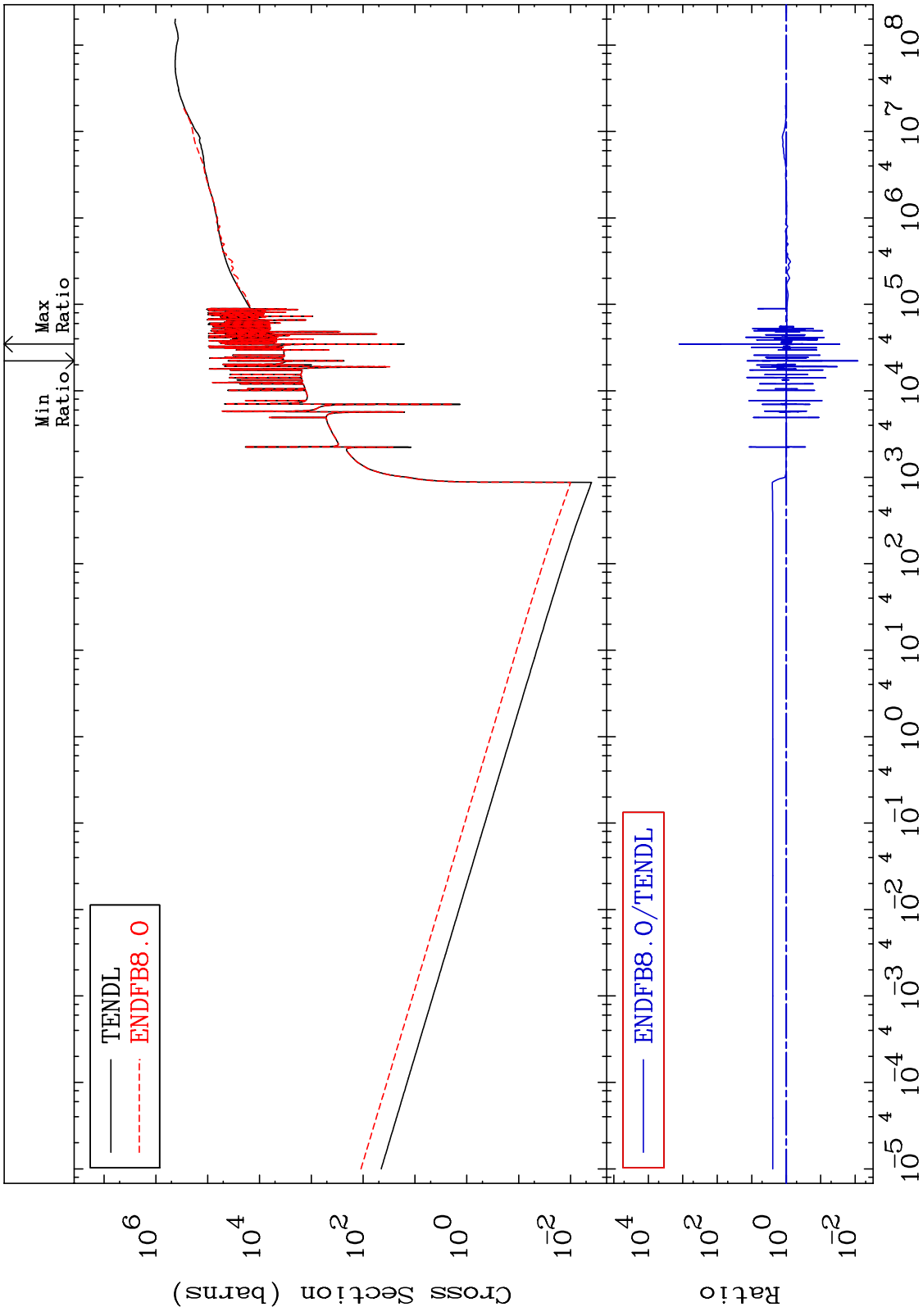
Incident Energy (eV)

40-Zr-94

MAT 4037 Total kinematic kerma (high limit) Cross Section 40-Zr-94
 -99.16 To 9999. %



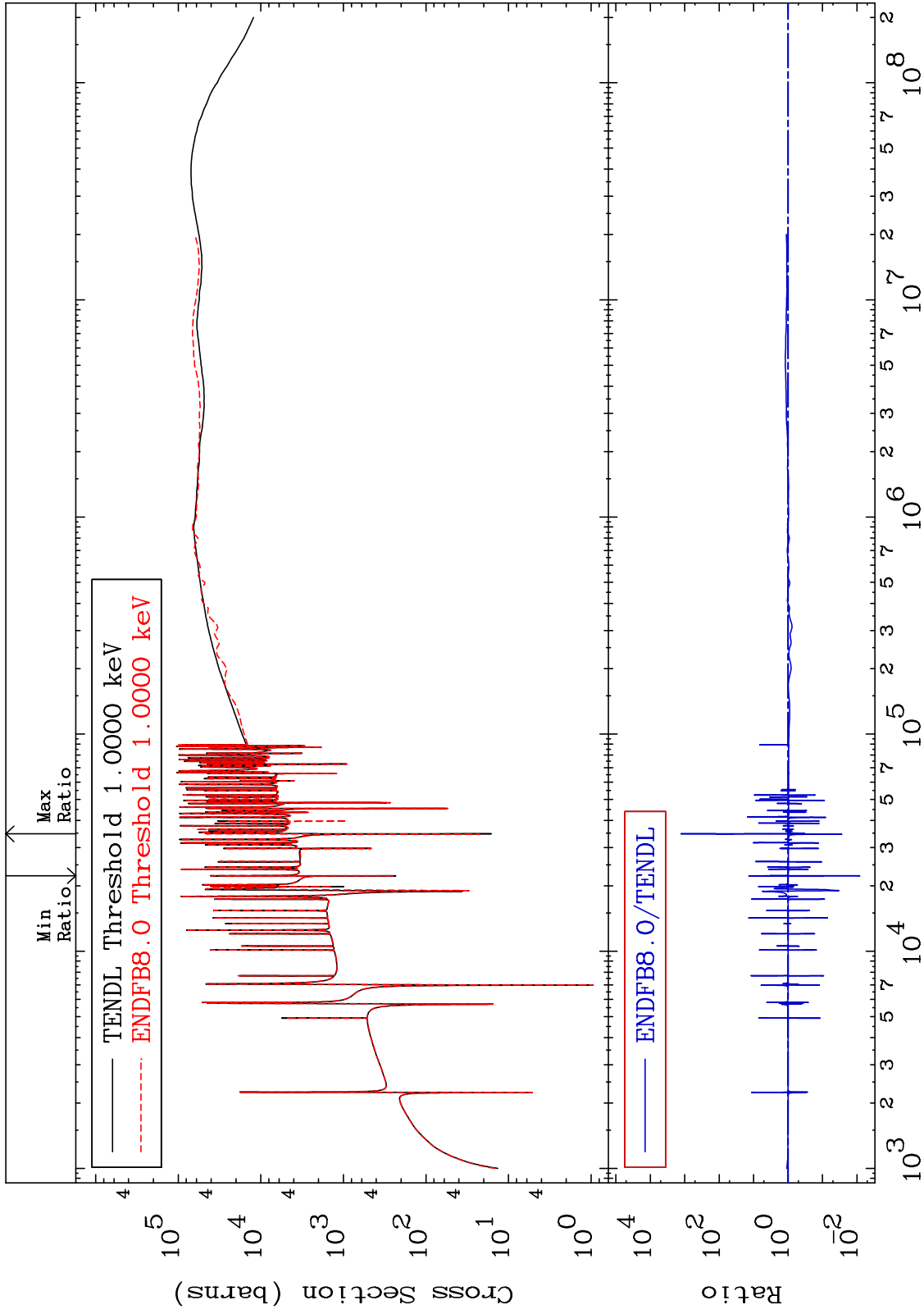
MAT 4037 Dpa total (eV-barns) 40-Zr-94
 Cross Section -99.16 To 9999. %



MAT 4037

Dpa elastic (mt2)
Cross Section

40-Zr-94
-99.17 To 9999. %



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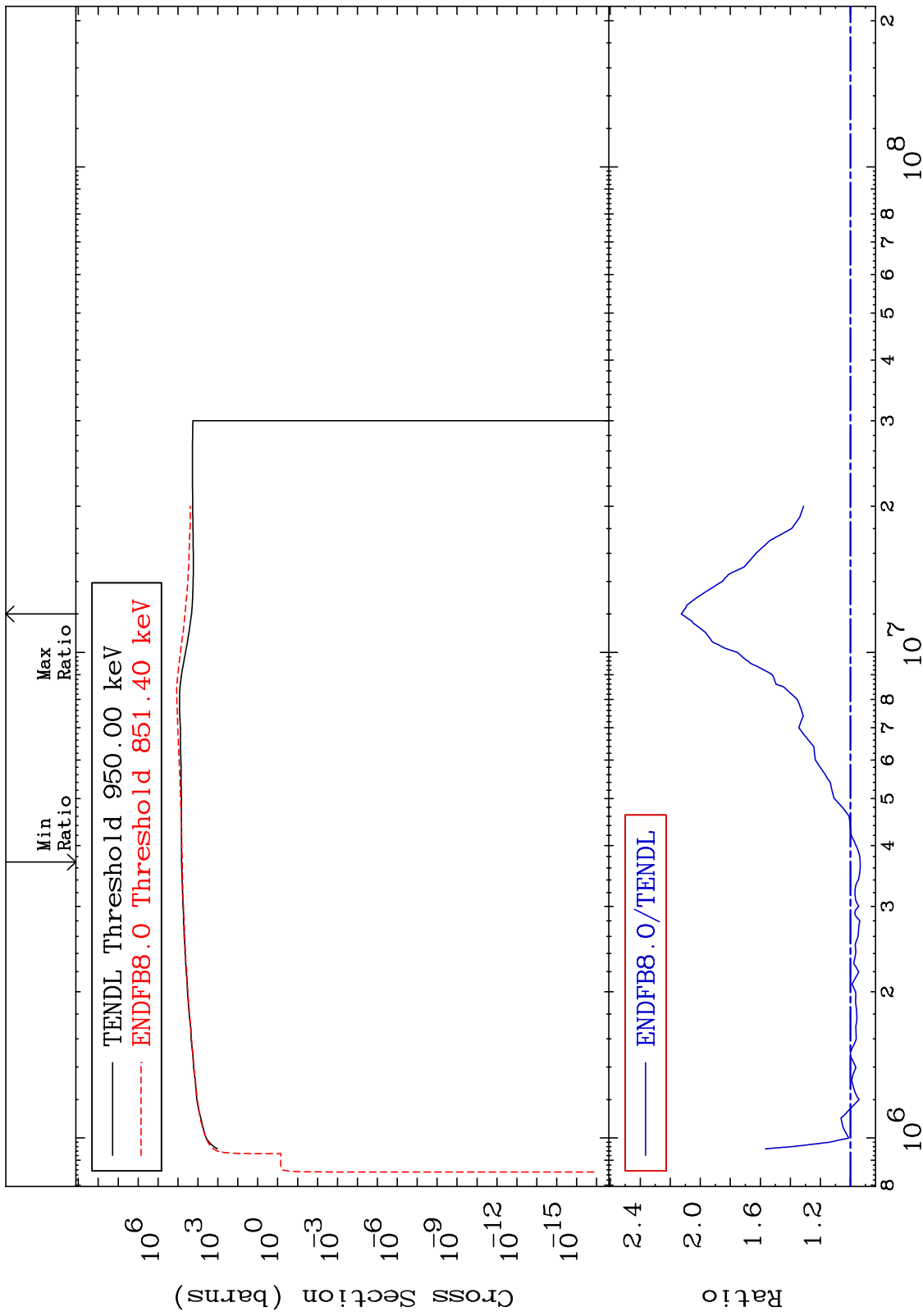
Incident Energy (eV)

40-Zr-94

MAT 4037

Dpa inelastic (mt51-91)
Cross Section

40-Zr-94
-6.518 To 112.7 %

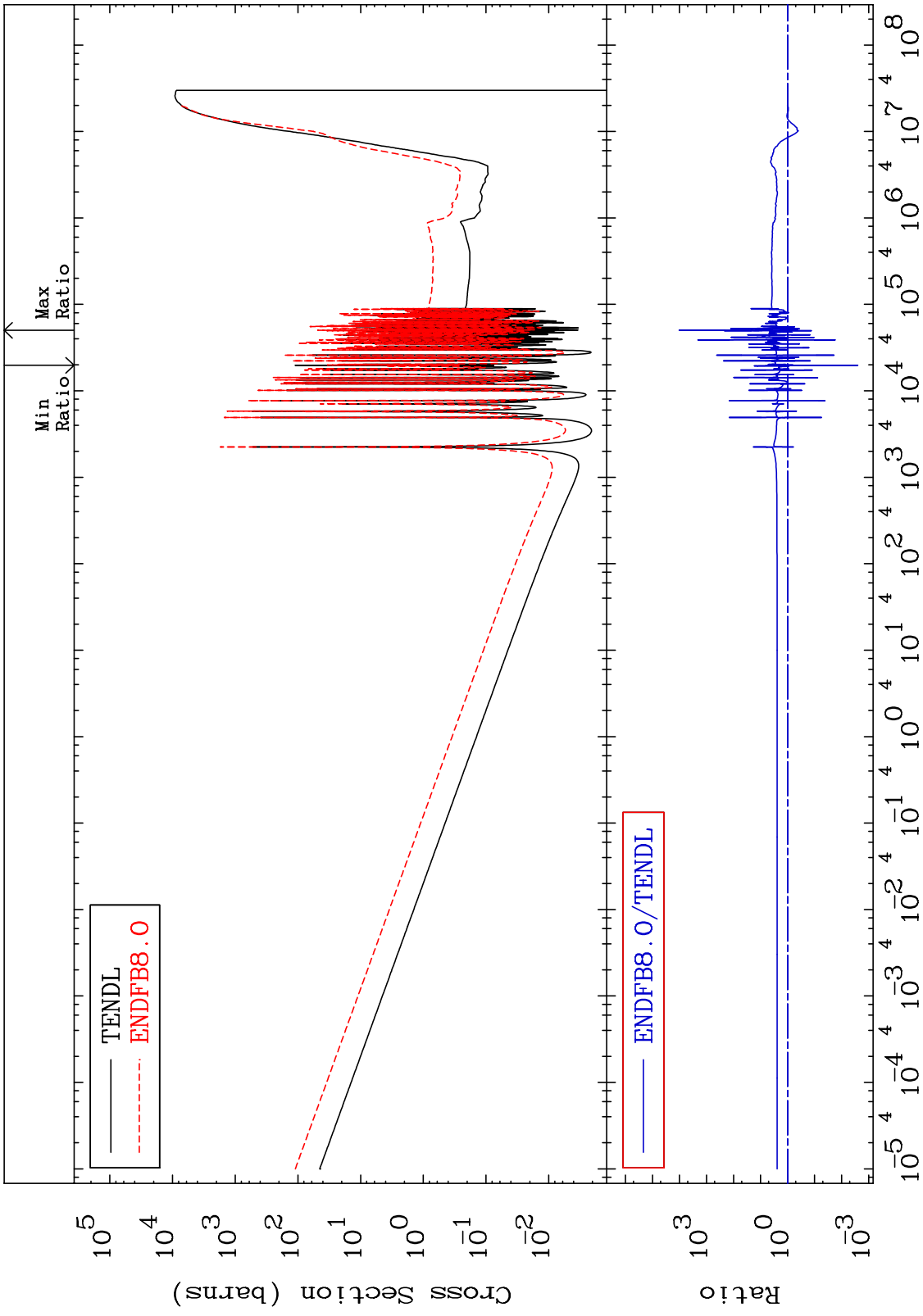


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Incident Energy (eV)

40-Zr-94

MAT 4037 Dpa disappearance (mt102 -120) 40-Zr-94
 Cross Section -99.75 To 9999. %

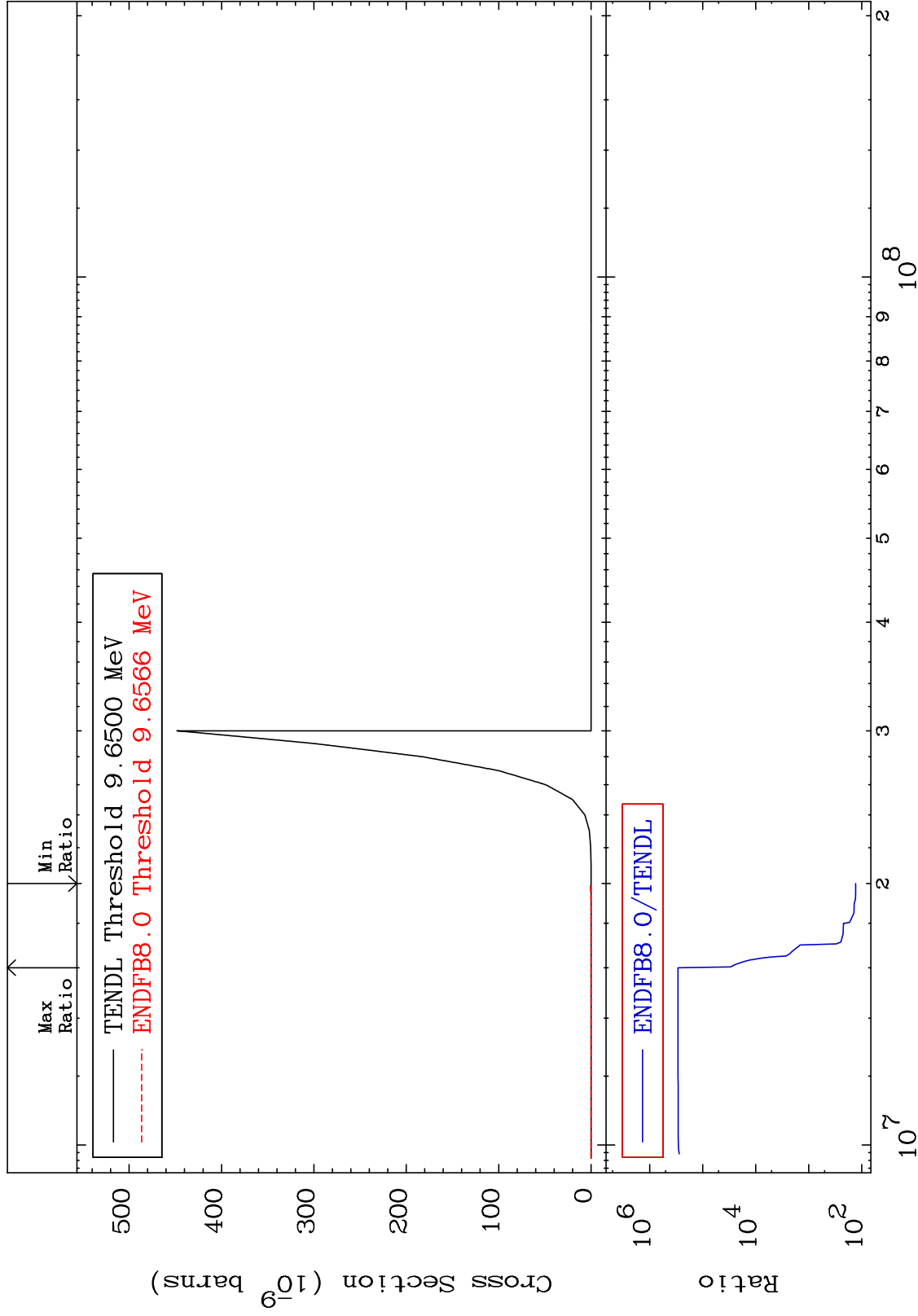


MAT 4037

(n,p) α :37-Rb-90g

40-Zr-94

Radionuclide Production Cross Section 9999. To 9999. %



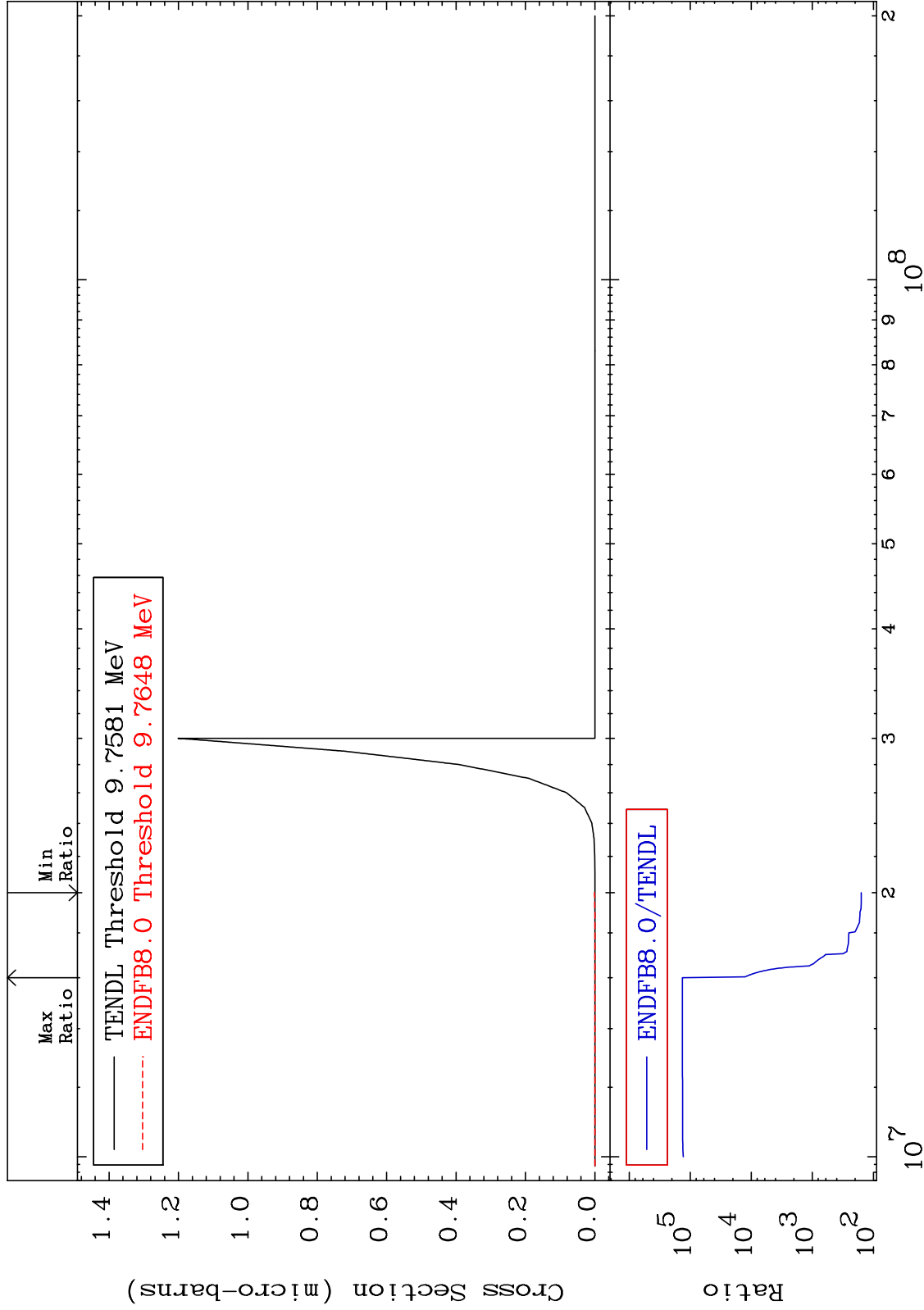
40-Zr-94

MAT 4037

(n, p) α :37-Rb-90m1

40-Zr-94

Radionuclide Production Cross Section 9999. To 9999. %



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Incident Energy (eV)

40-Zr-94