

Program Complot
(Version 2018-1)

by

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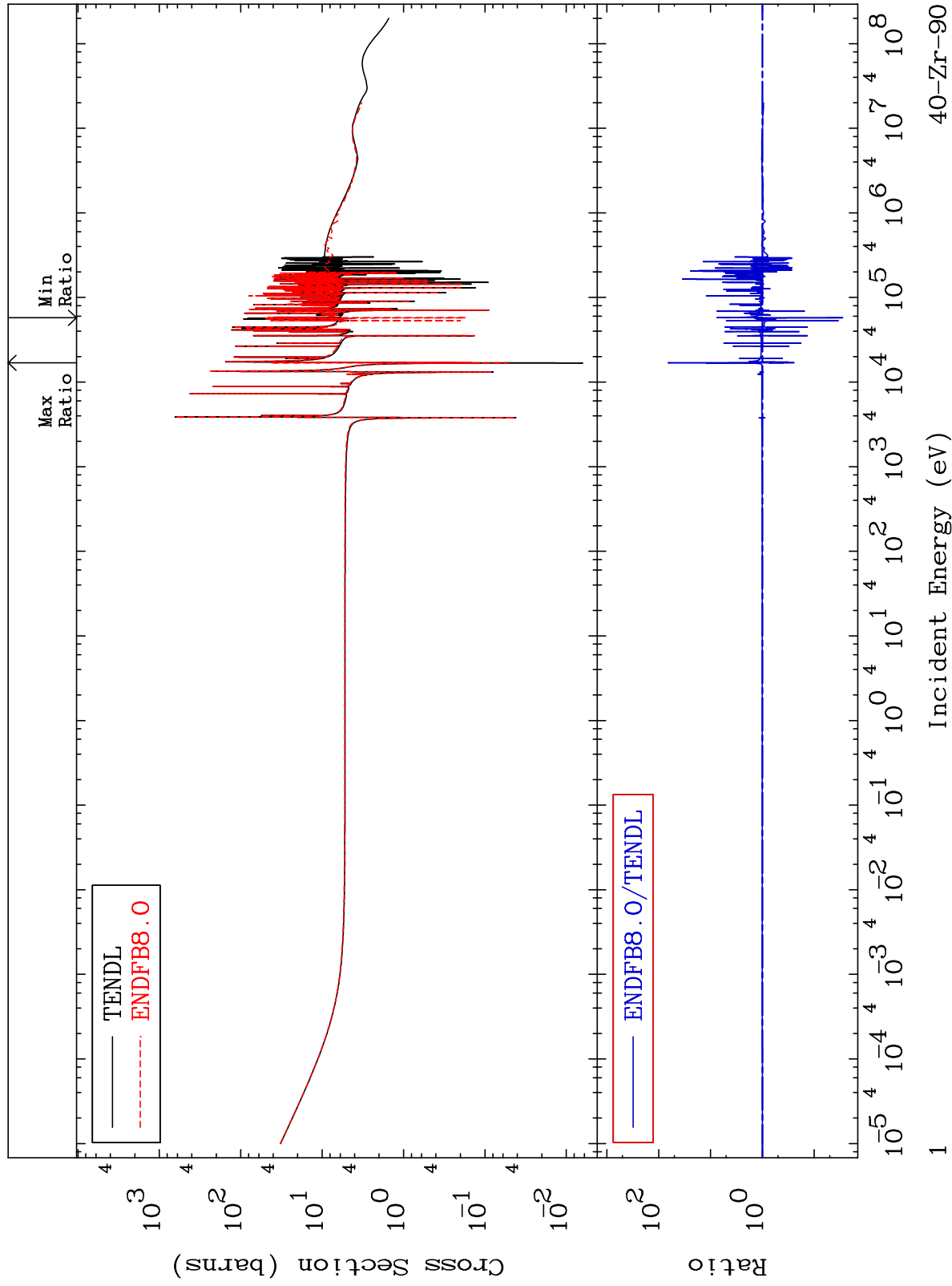
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4025

Total
Cross Section

40-Zr-90
-97.19 To 6499. %



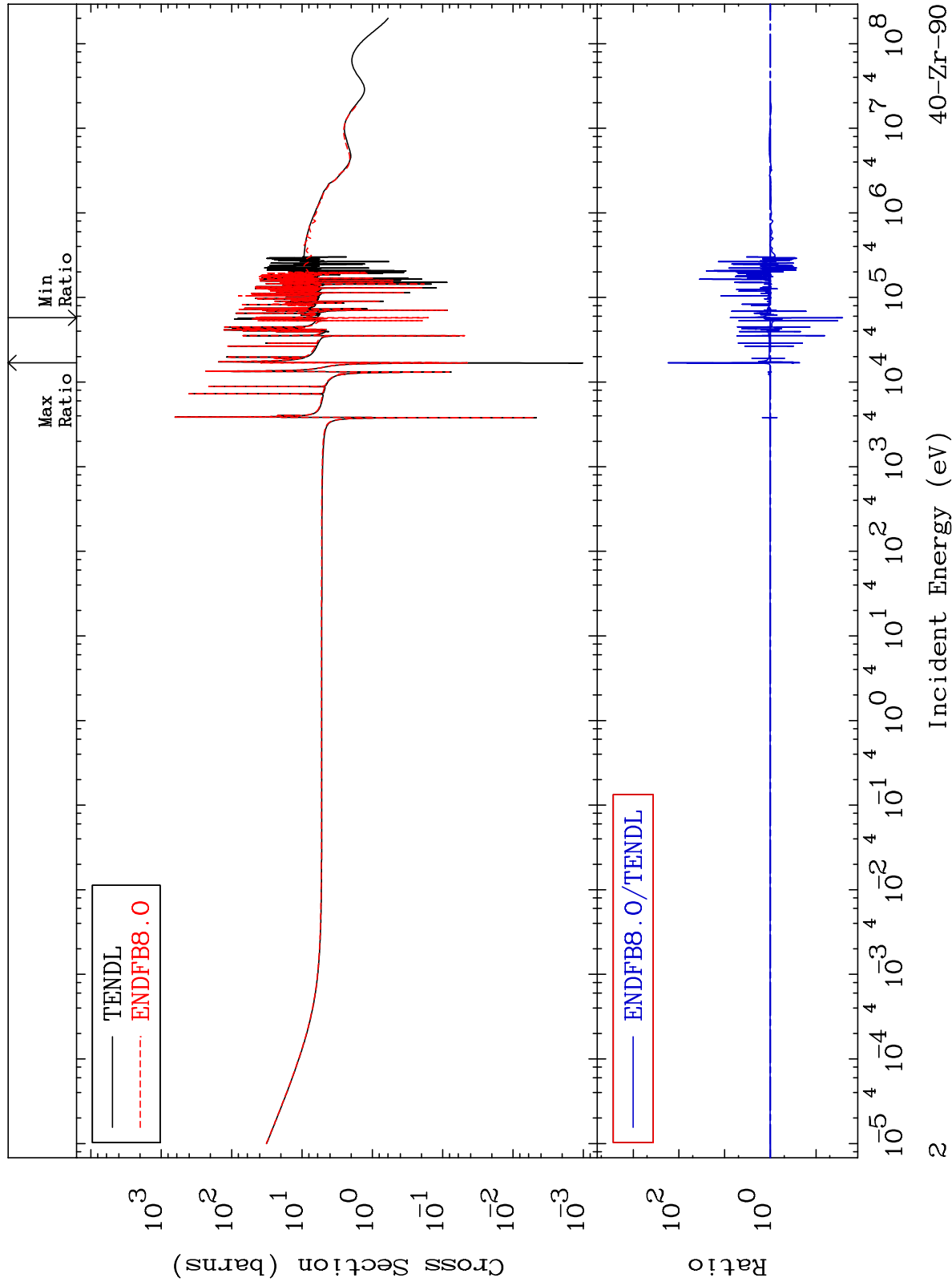
MAT 4025

Elastic

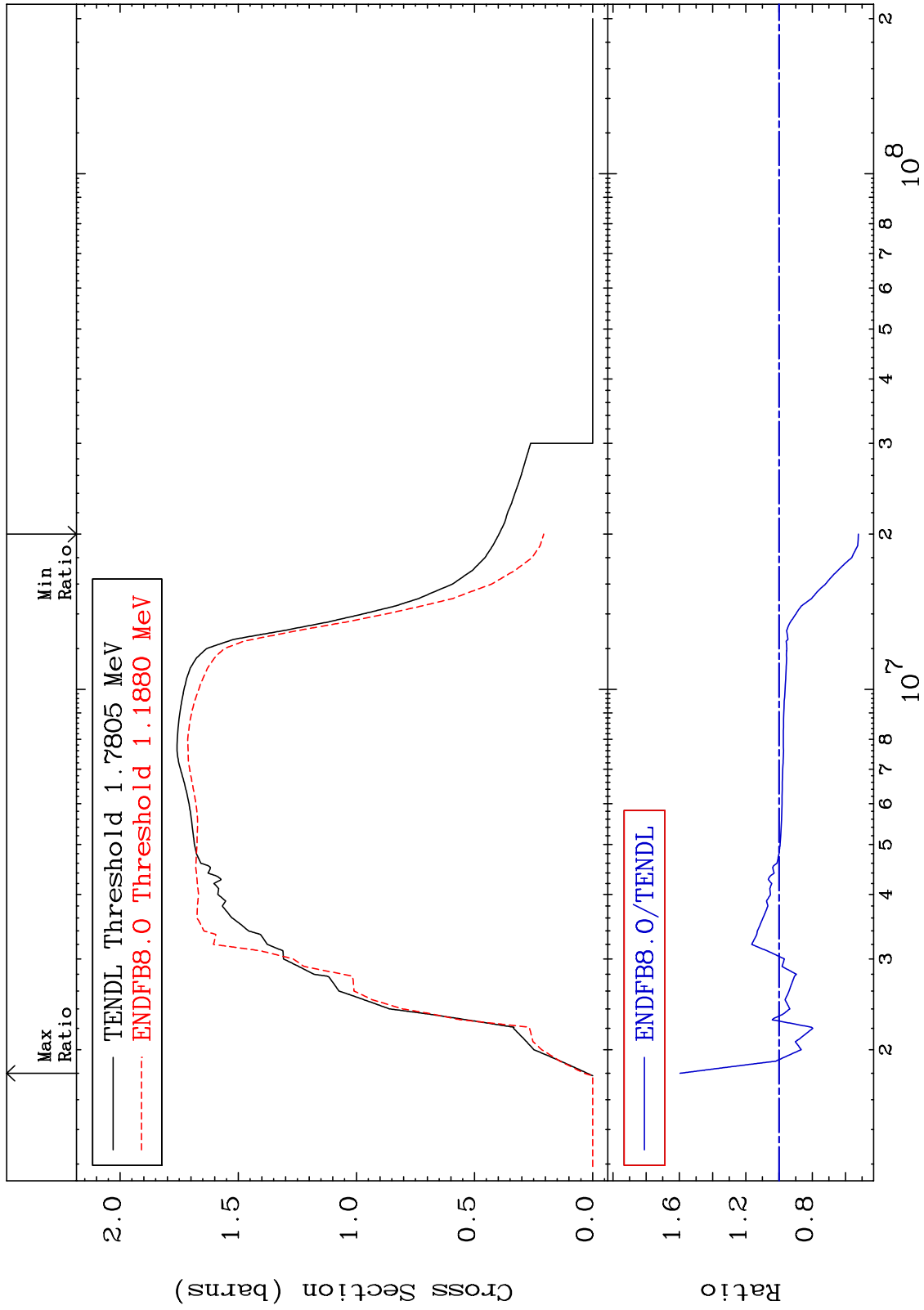
Cross Section

40-Zr-90

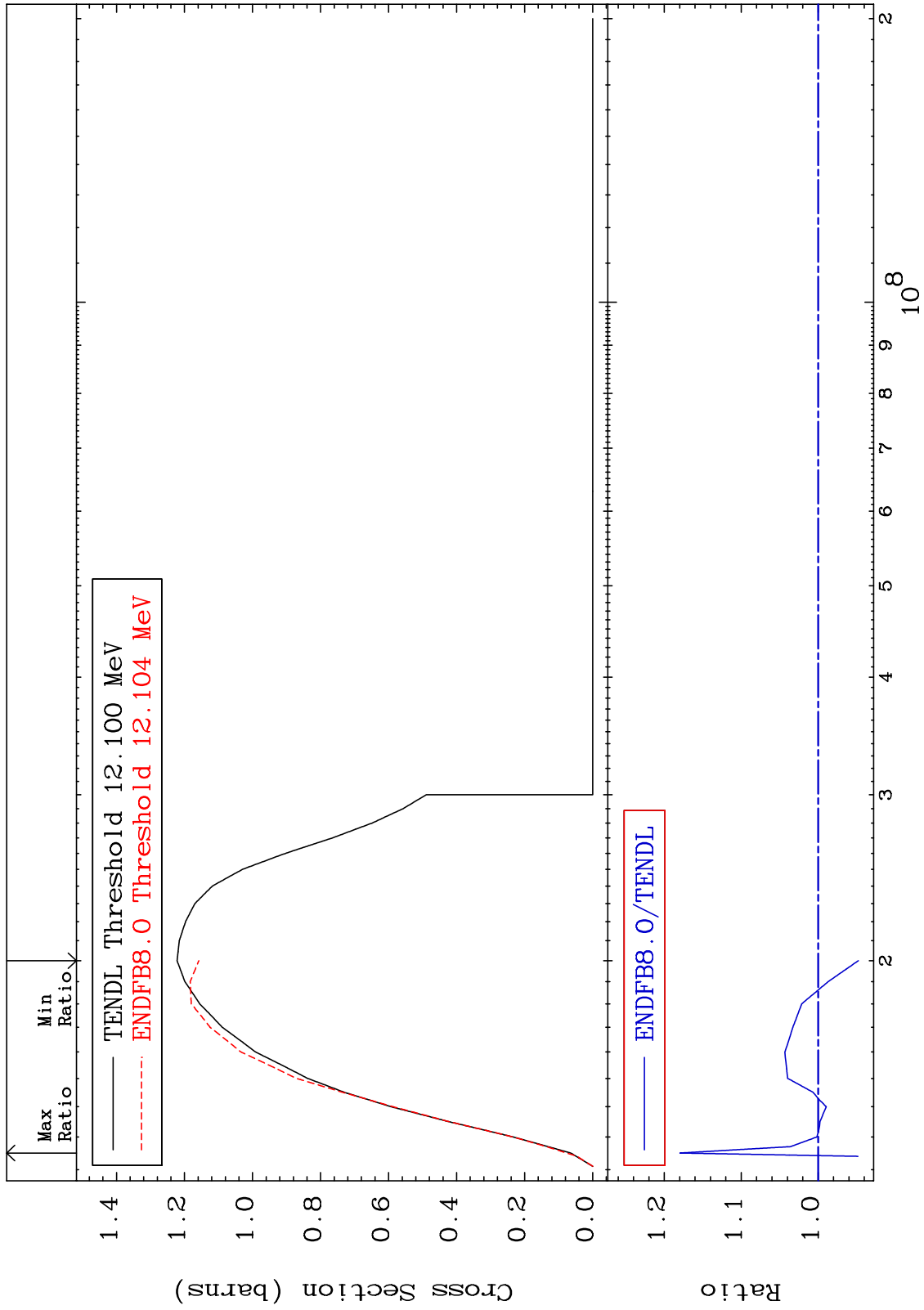
-97.40 To 9999. %



MAT 4025 Inelastic Cross Section 40-Zr-90 -47.75 To 59.63 %



MAT 4025 (n,2n) Cross Section 40-Zr-90 -5.238 To 17.96 %



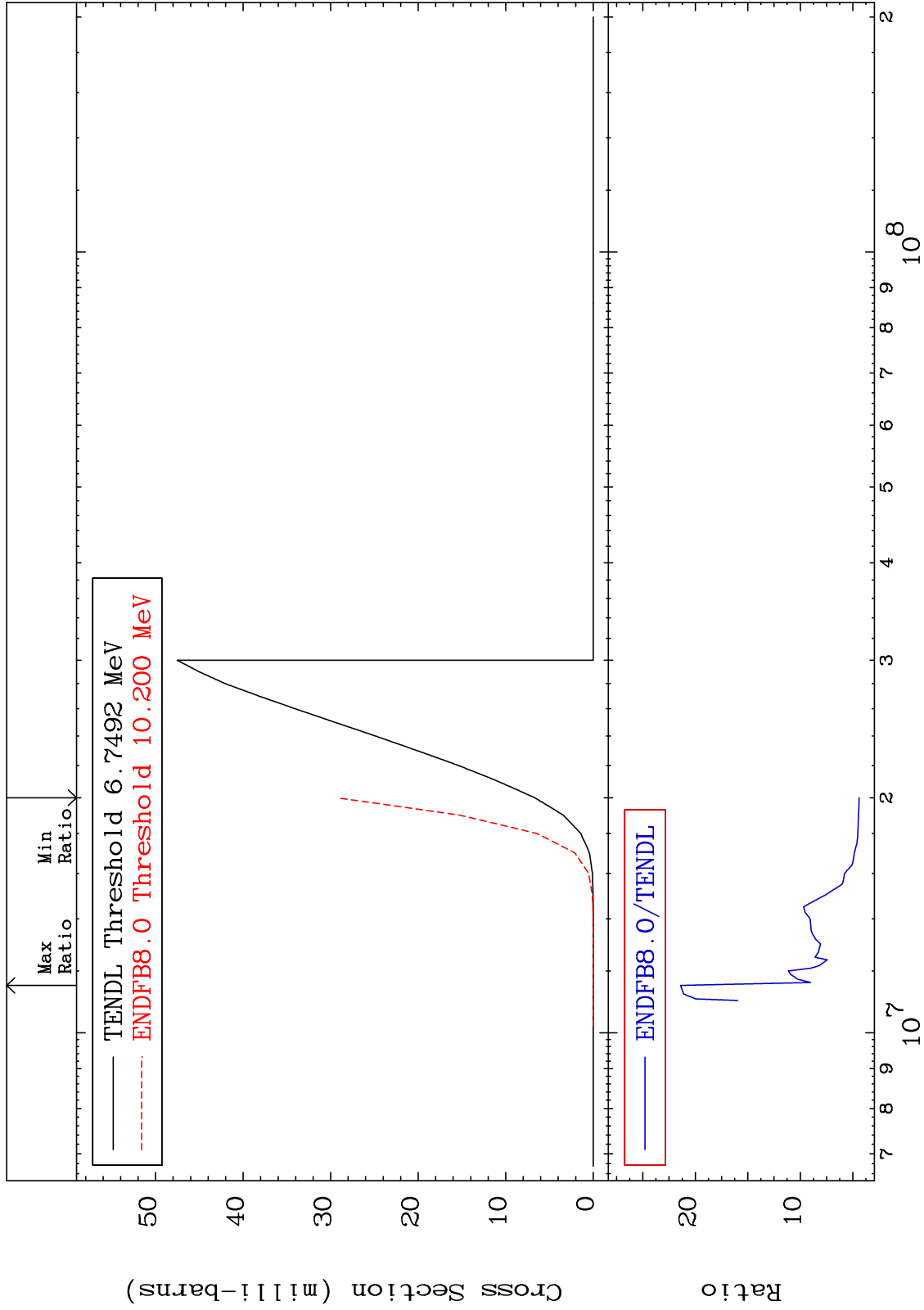
MAT 4025

(n, n') α

40-Zr-90

Cross Section

339.2 To 2040. %

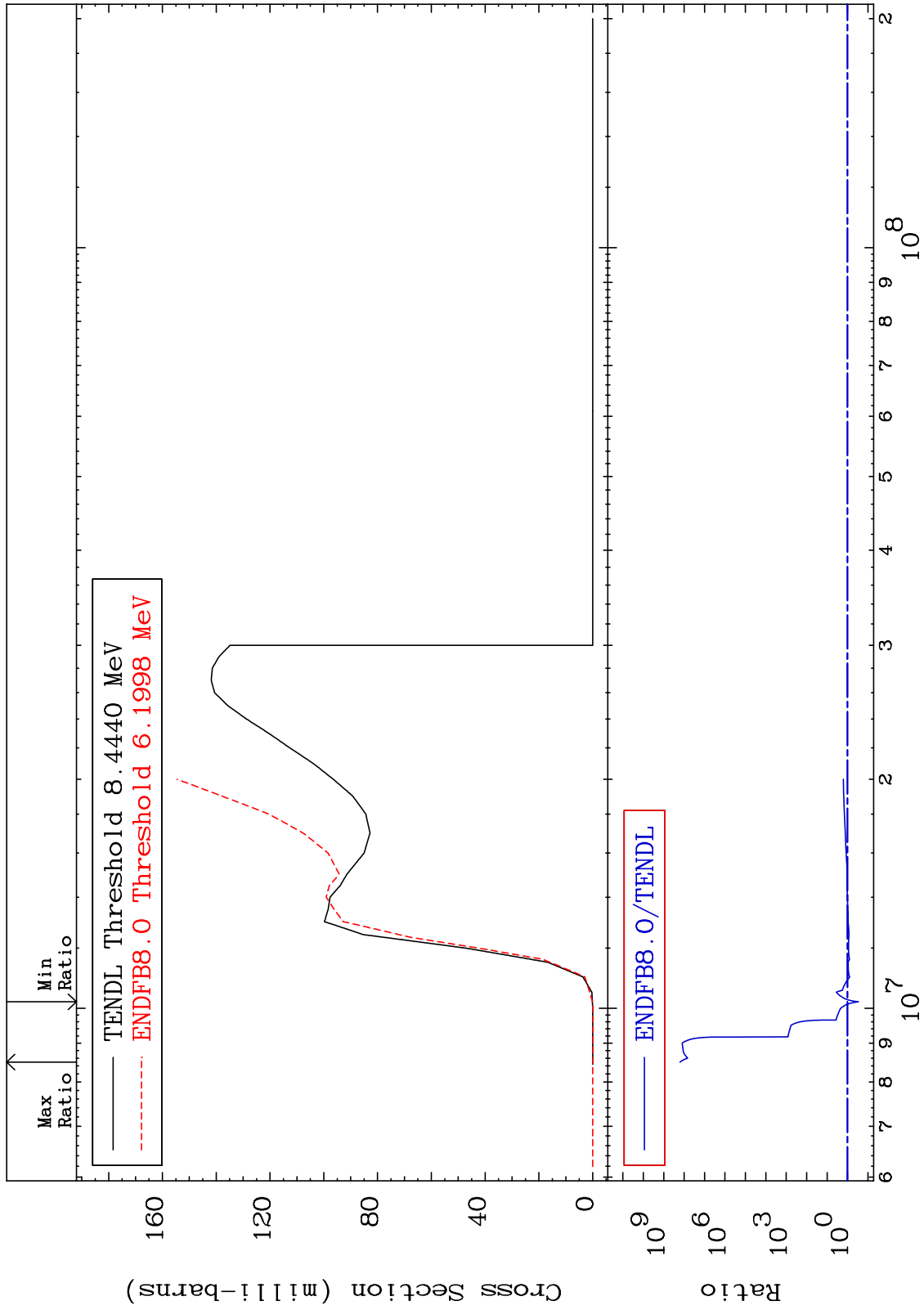


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Incident Energy (eV)

40-Zr-90

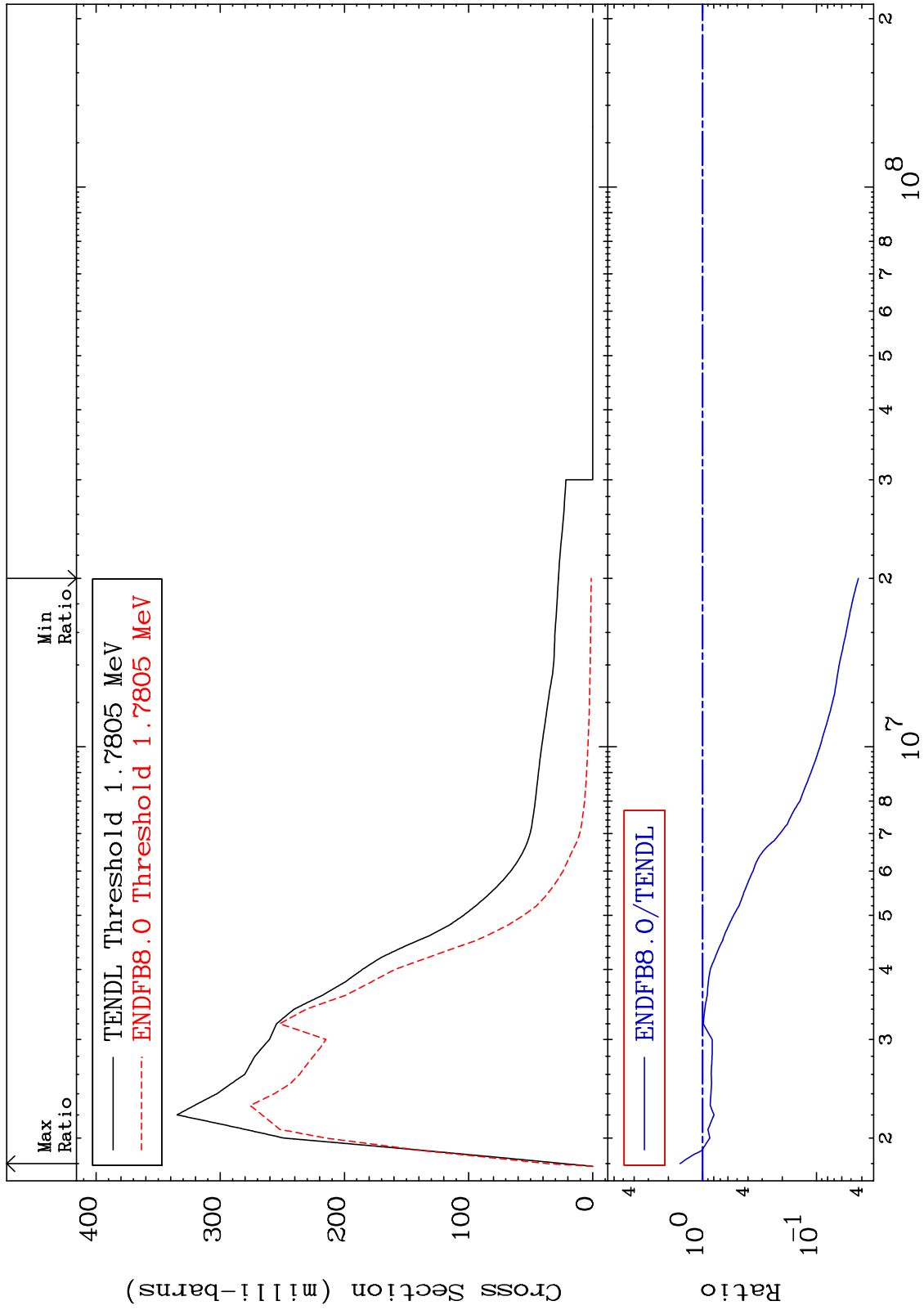
MAT 4025 (n,n') p 40-Zr-90
Cross Section -70.65 To 9999. %



MAT 4025

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

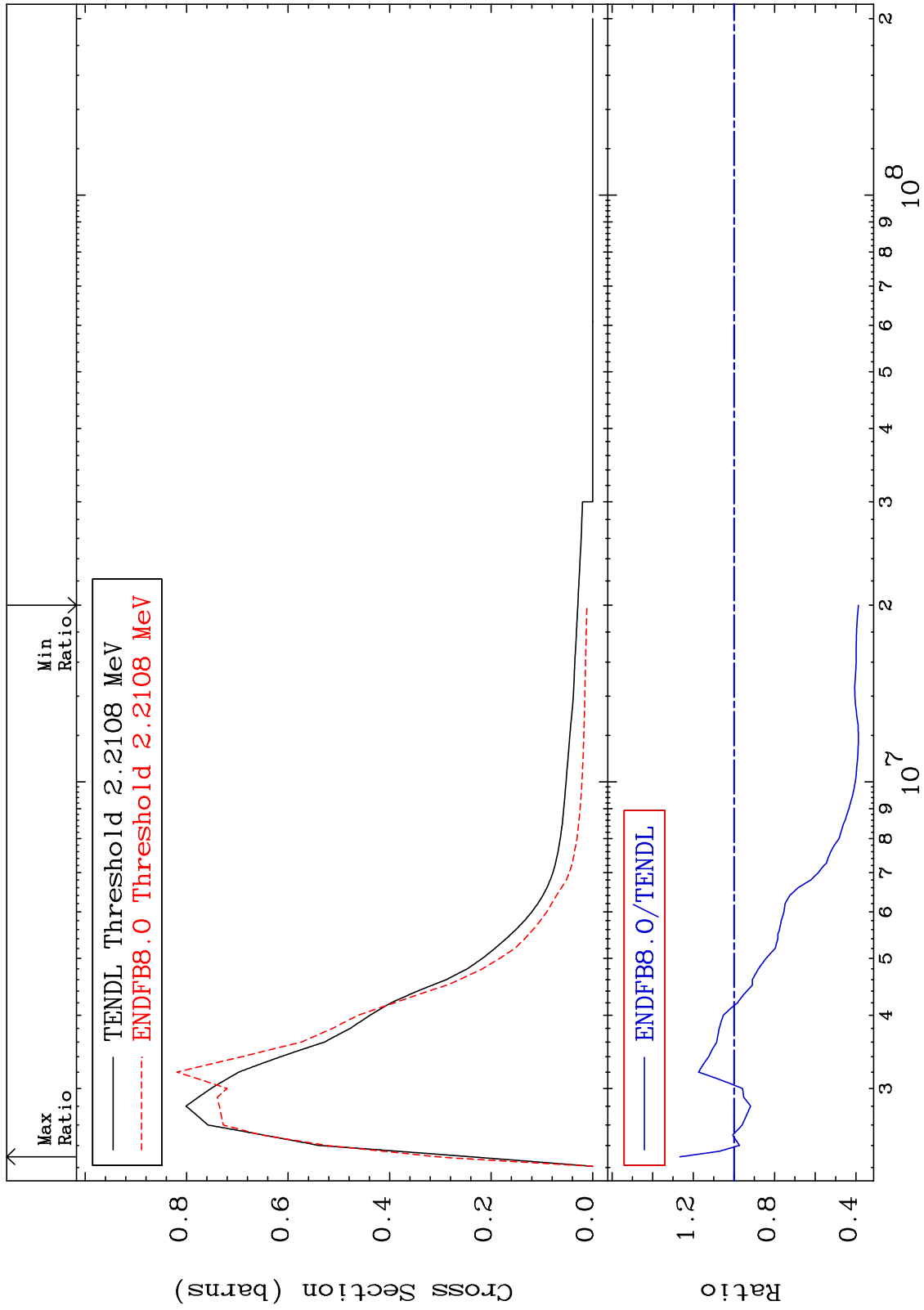
40-Zr-90
-95.71 To 58.28 %



MAT 4025

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

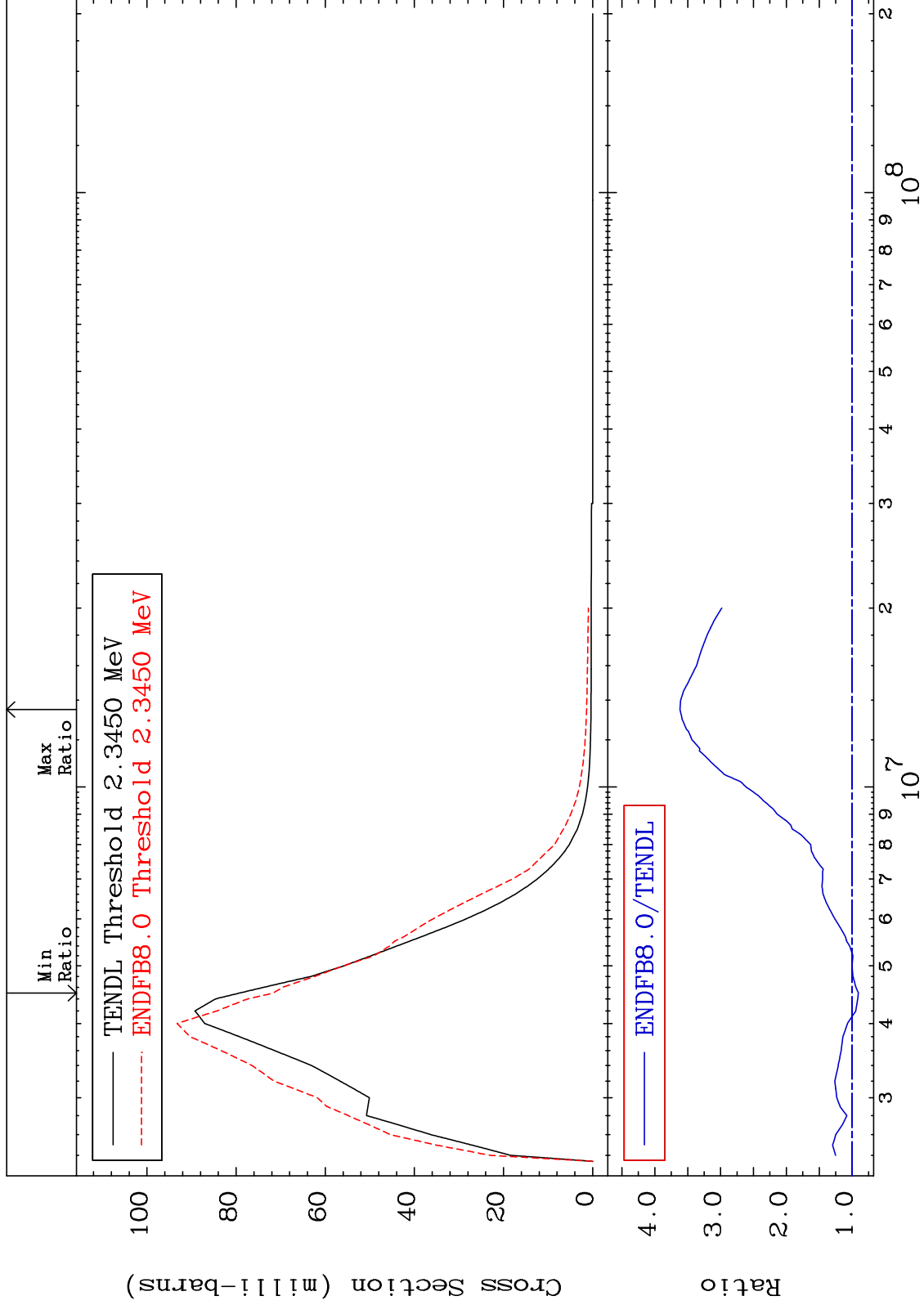
40-Zr-90
-61.23 To 26.55 %



MAT 4025

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

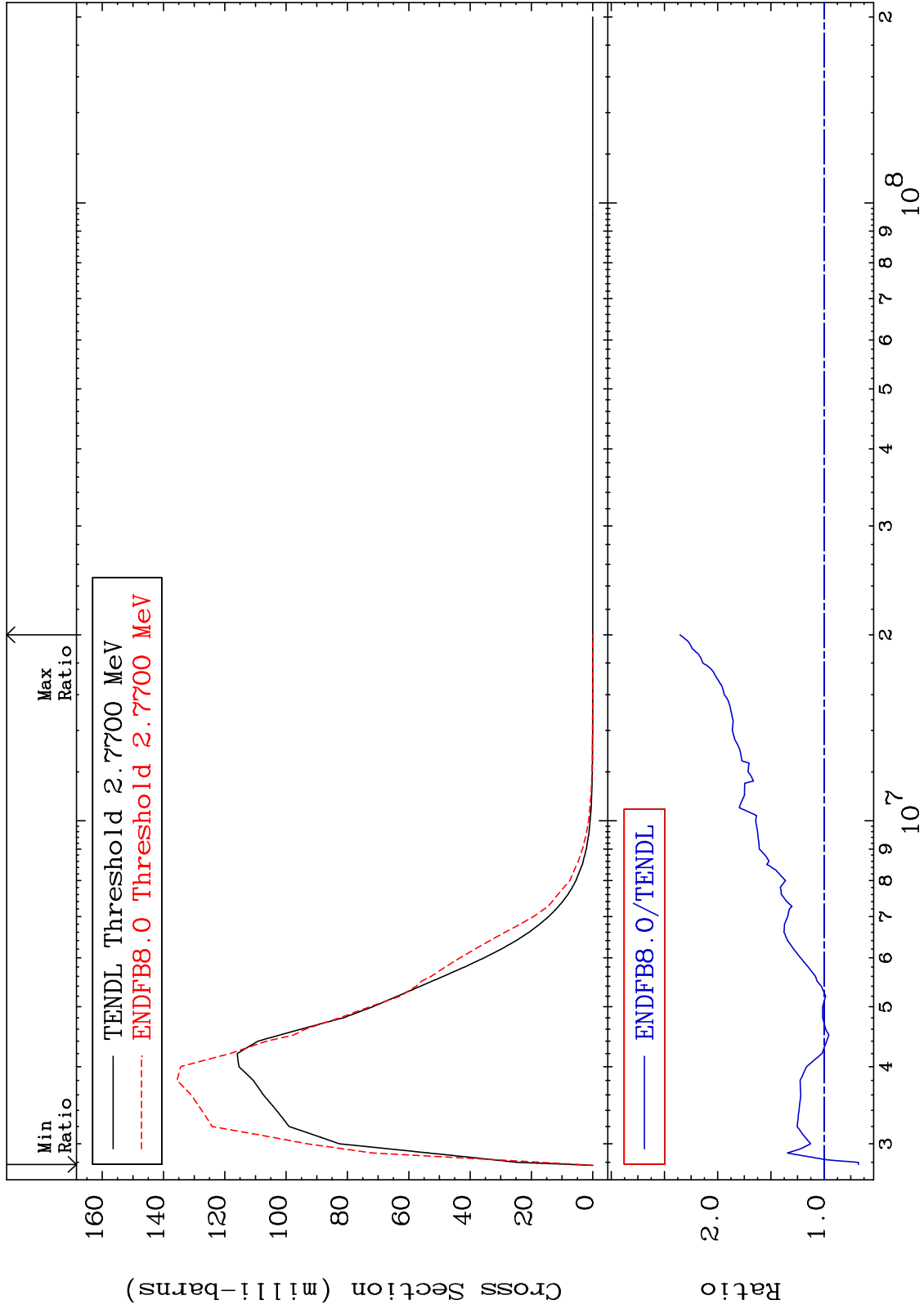
40-Zr-90
-9.572 To 261.7 %



MAT 4025

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

40-Zr-90
-32.29 To 135.4 %



10

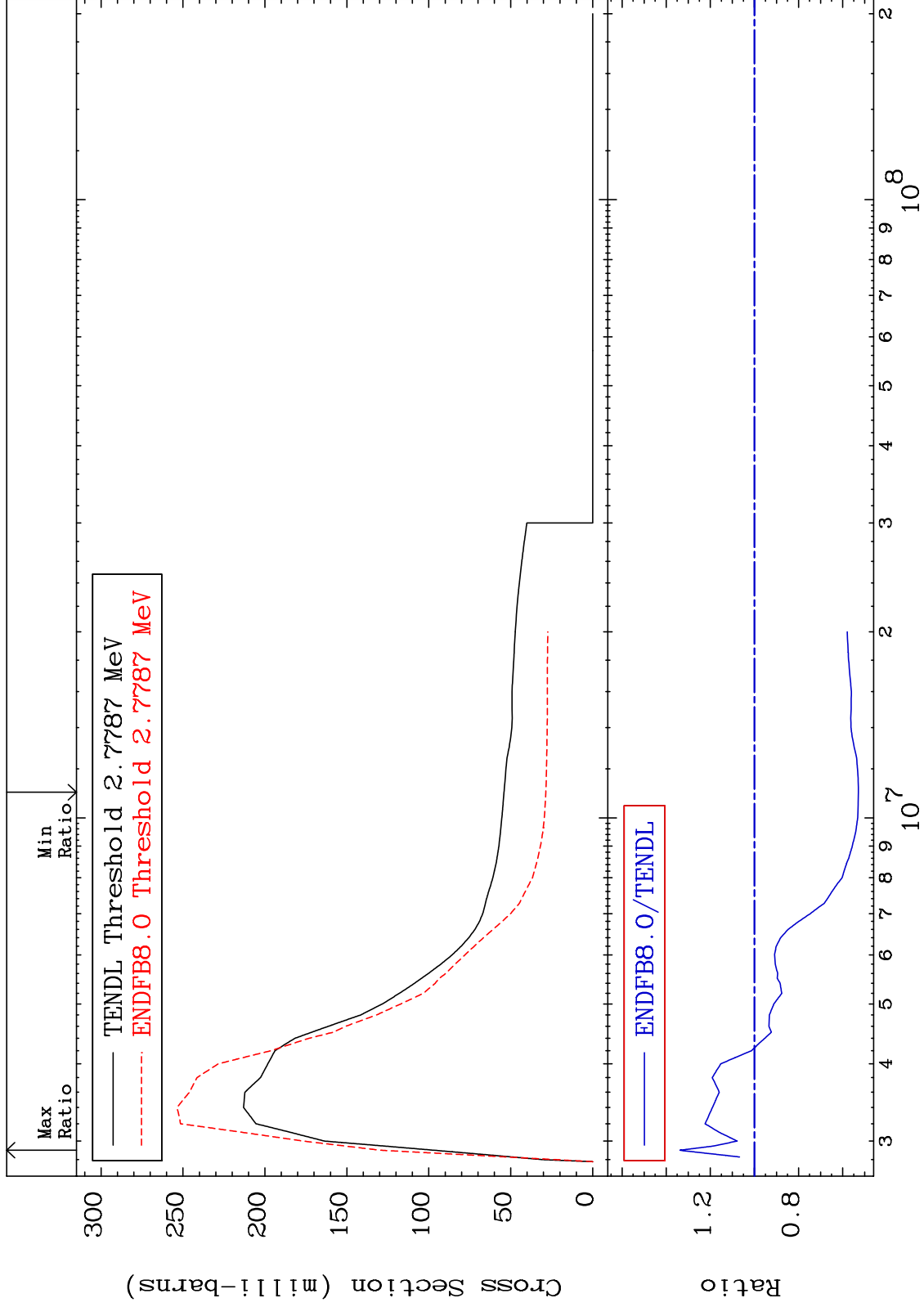
Incident Energy (eV)

40-Zr-90

MAT 4025

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

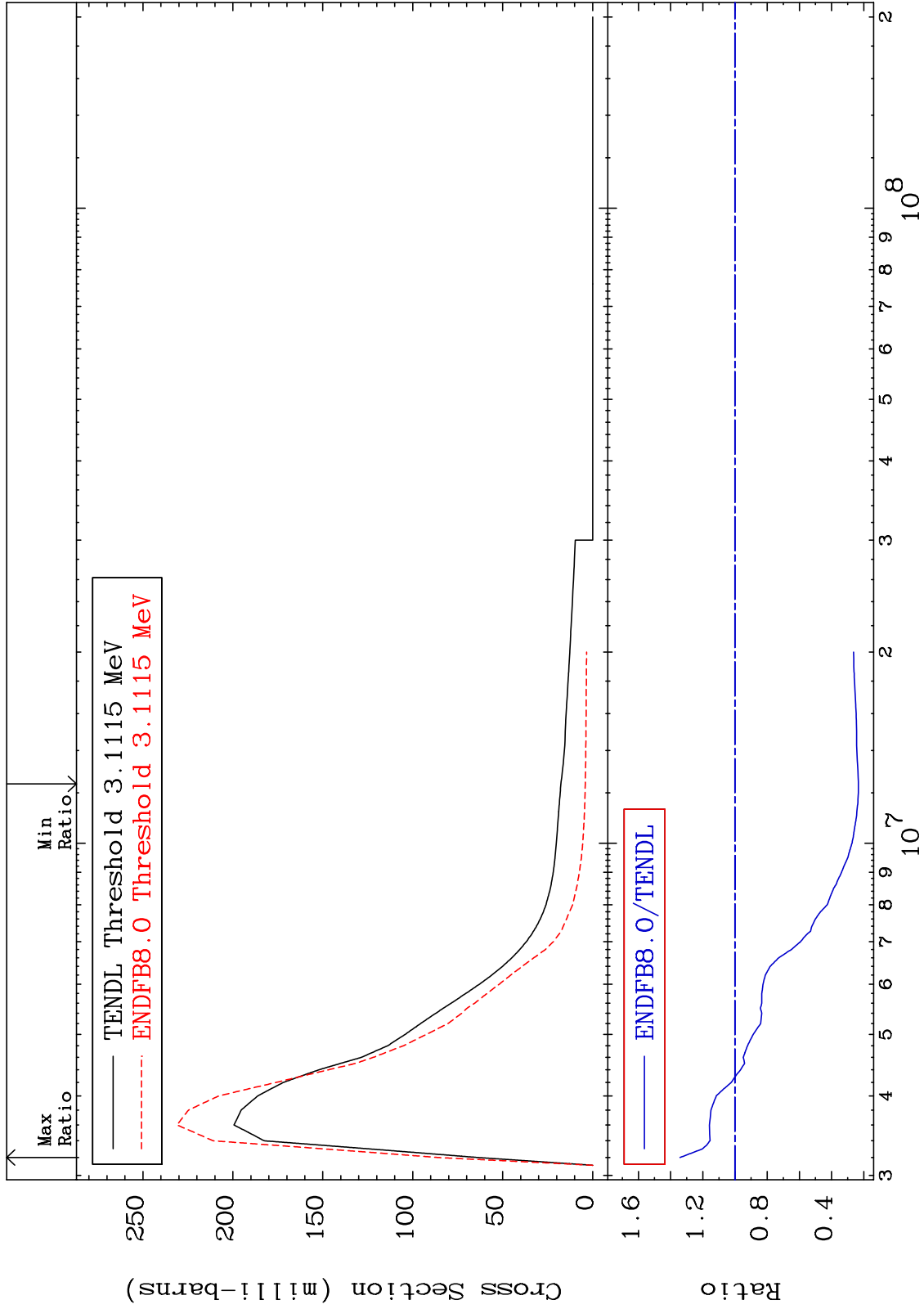
40-Zr-90
-47.14 To 33.73 %

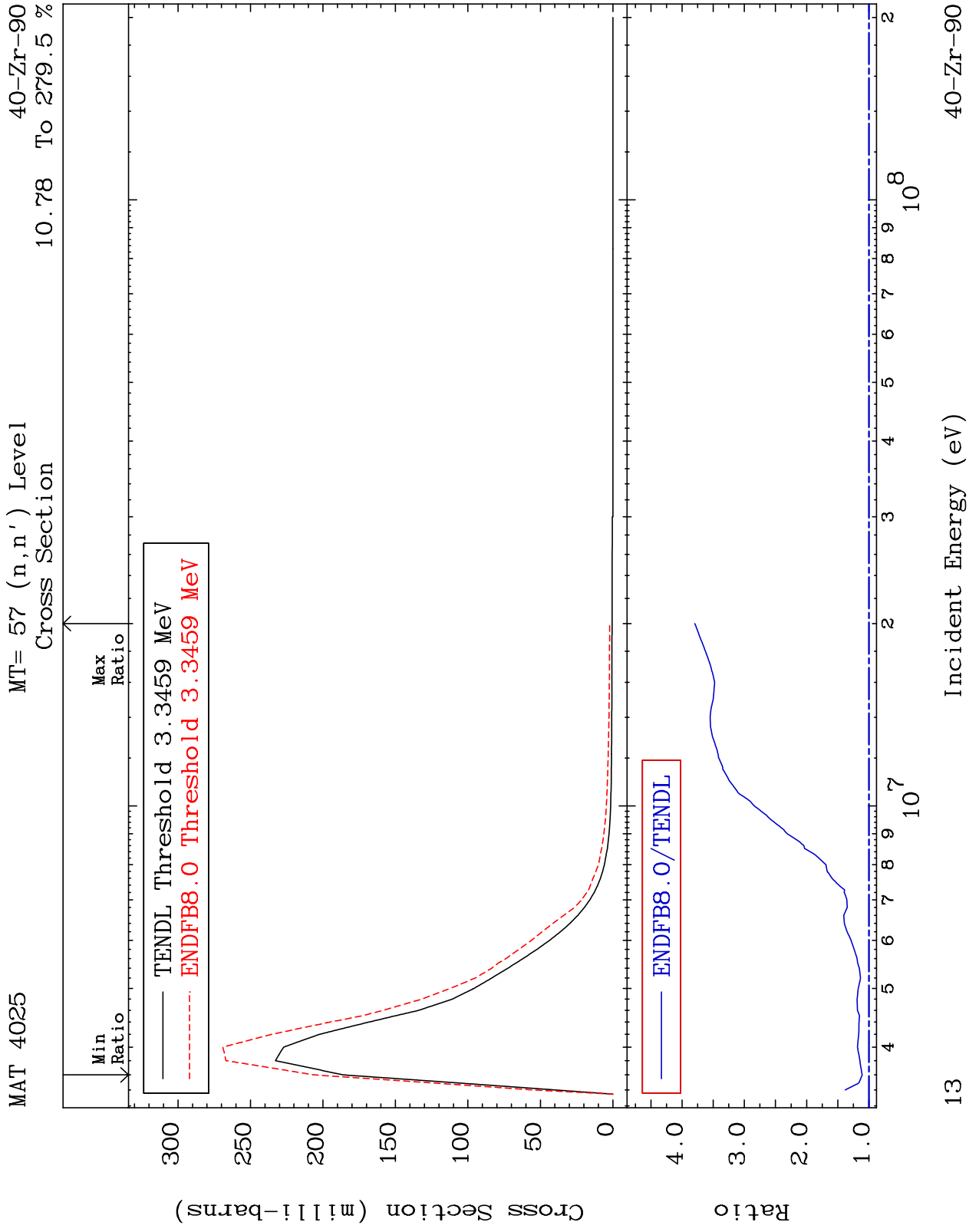


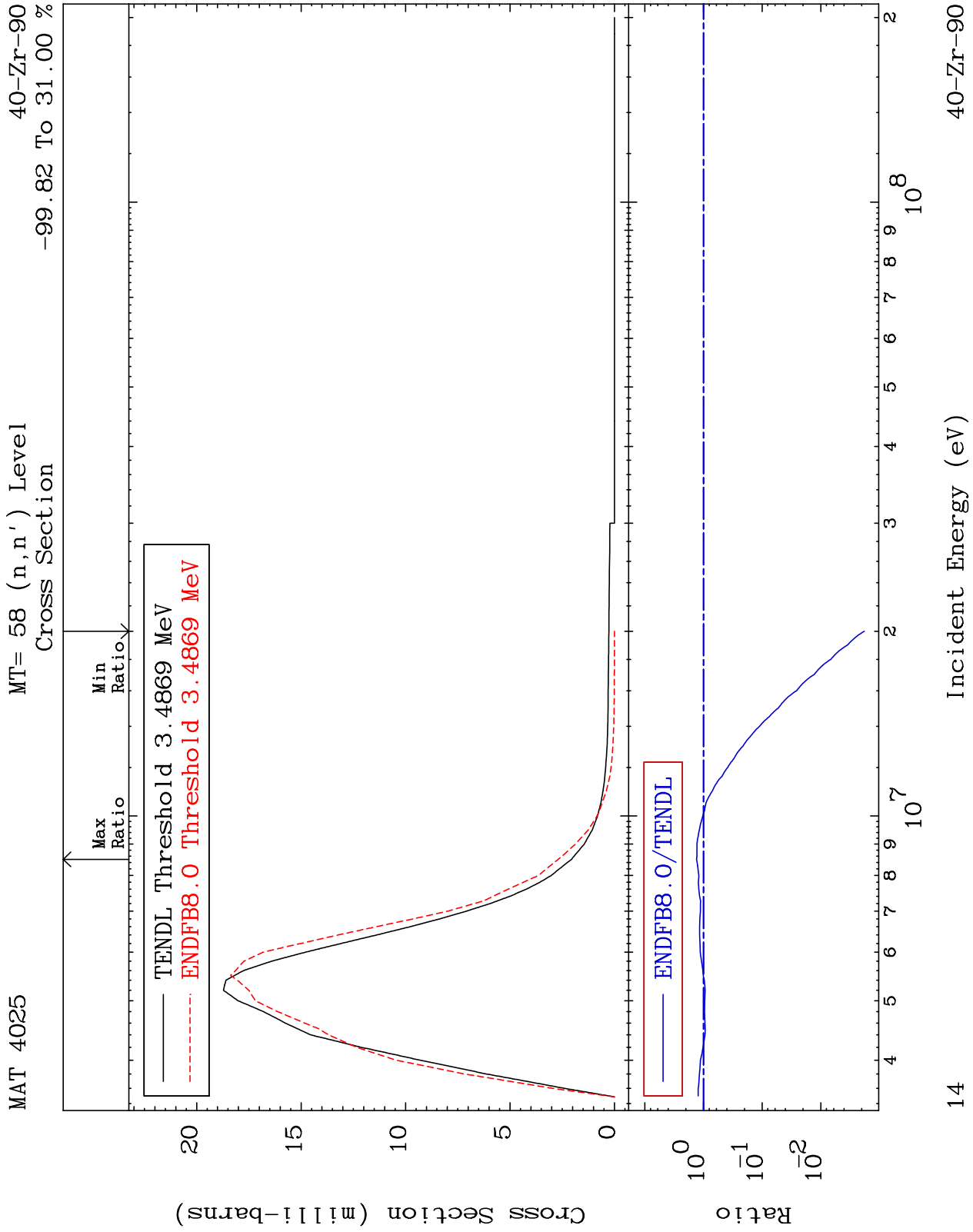
MAT 4025

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

40-Zr-90
-76.68 To 34.16 %



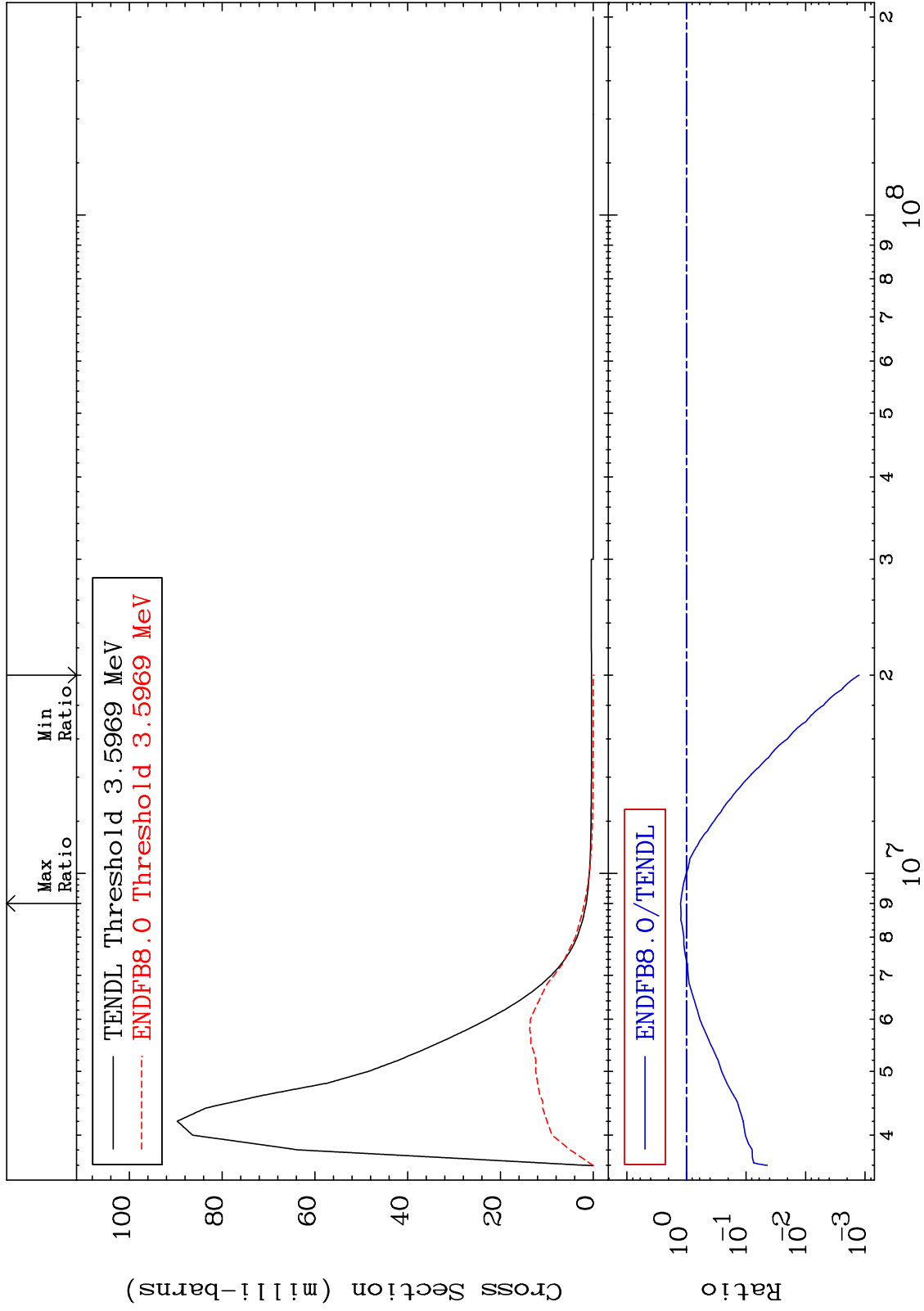




MAT 4025

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

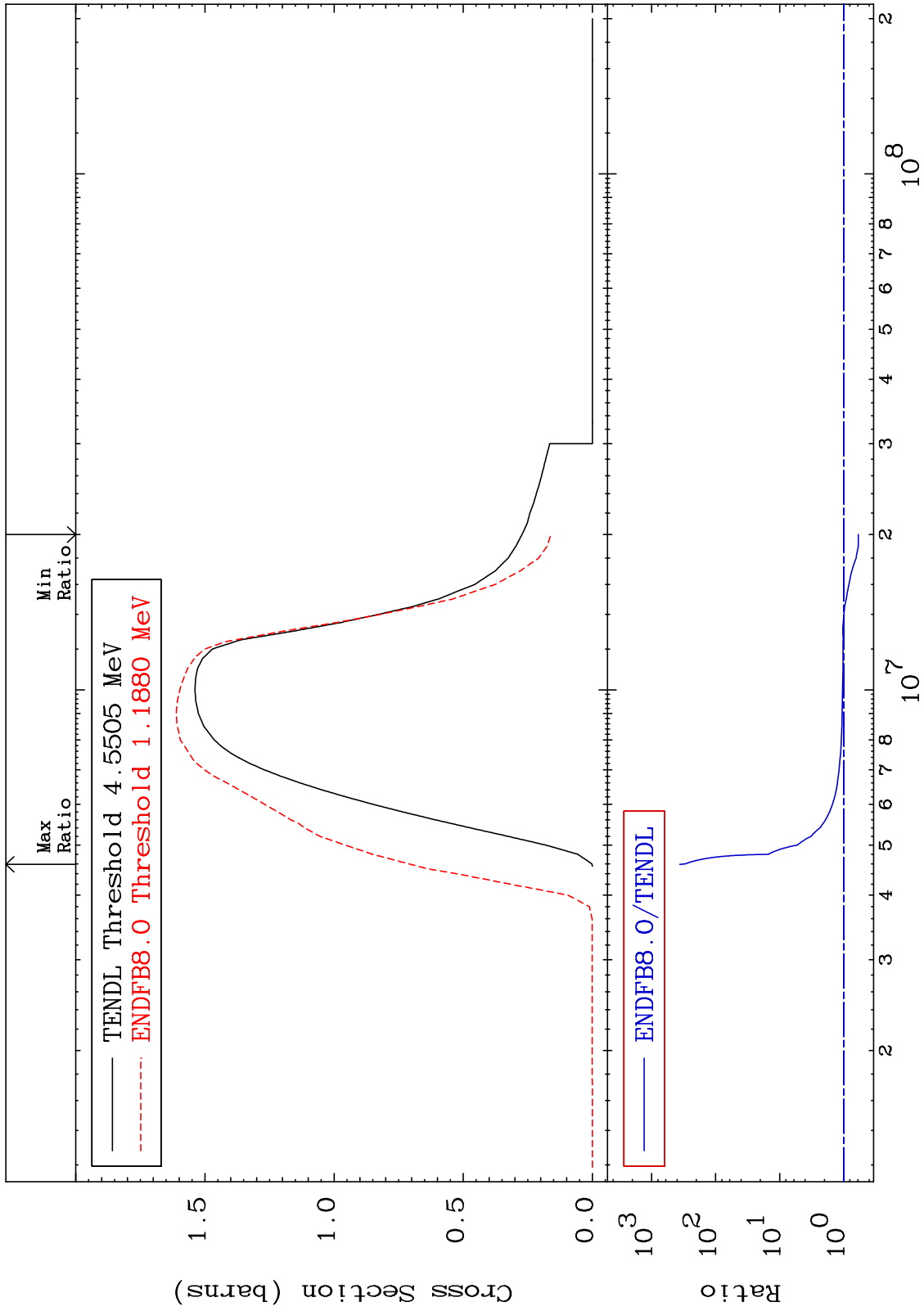
40-Zr-90
-99.87 To 25.18 %



MAT 4025

(n, n') Continuum
Cross Section

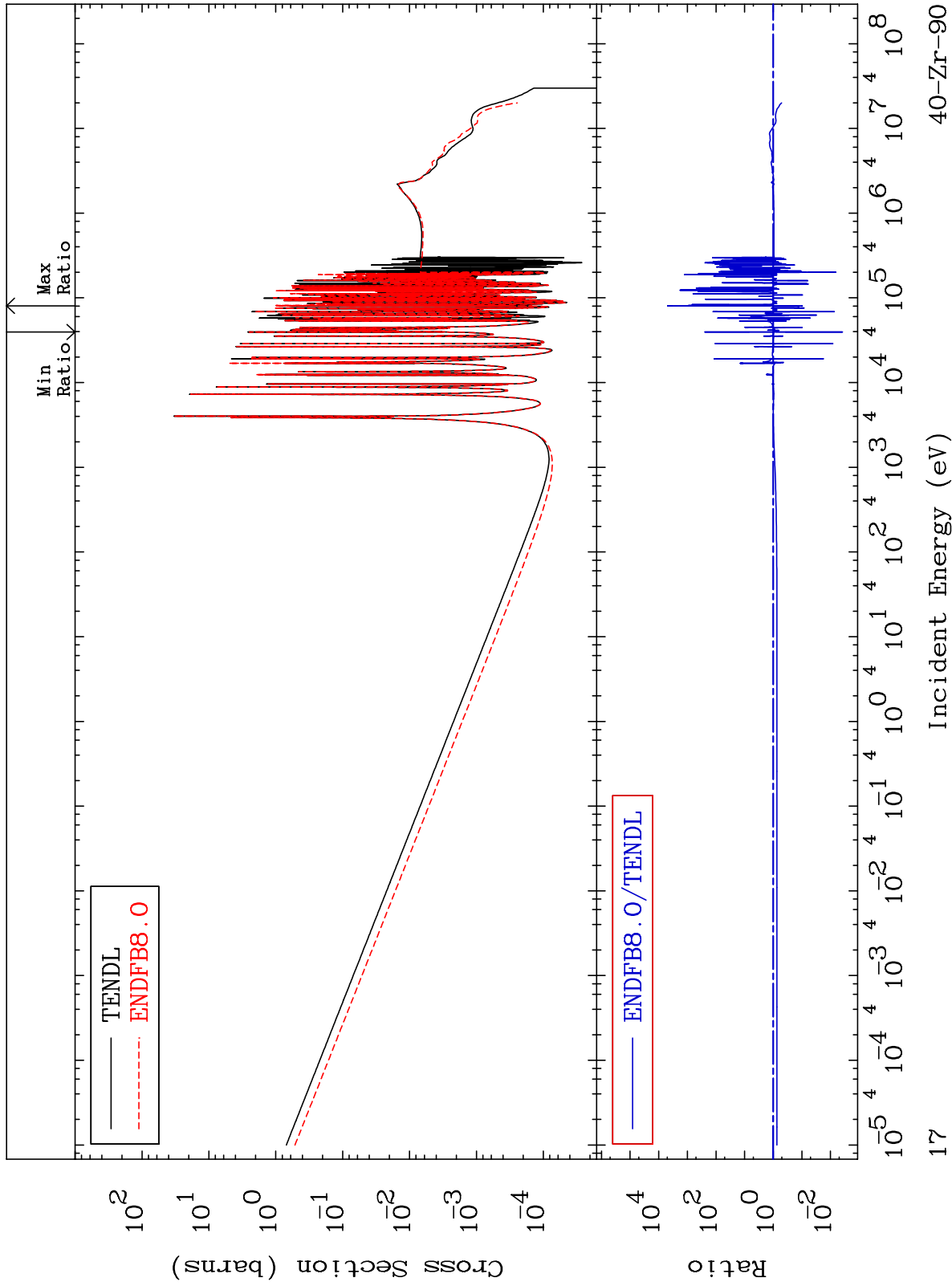
40-Zr-90
-41.04 To 9999. %



MAT 4025

(n, γ)
Cross Section

40-Zr-90
-99.62 To 9999. %



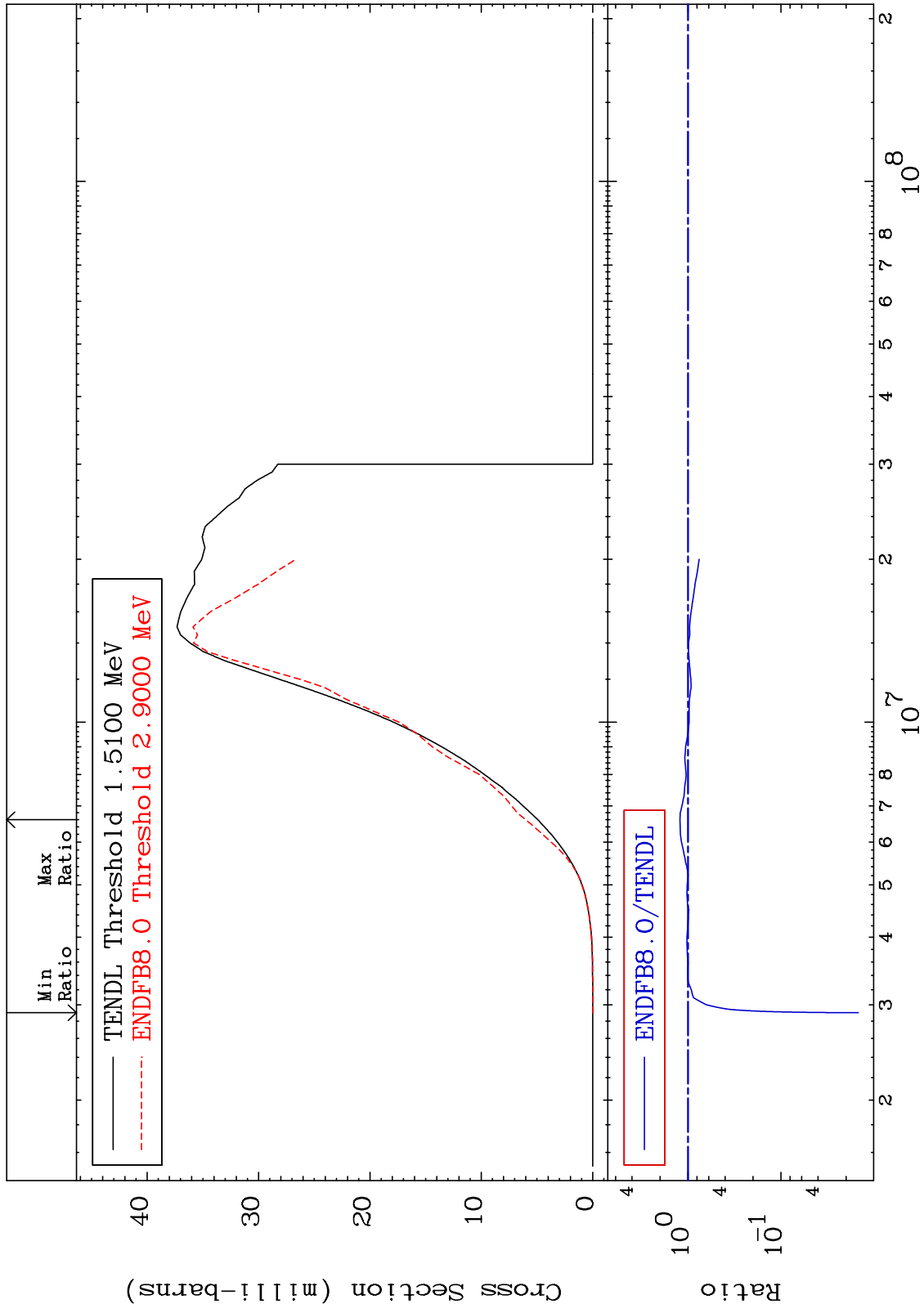
MAT 4025

(n, p)

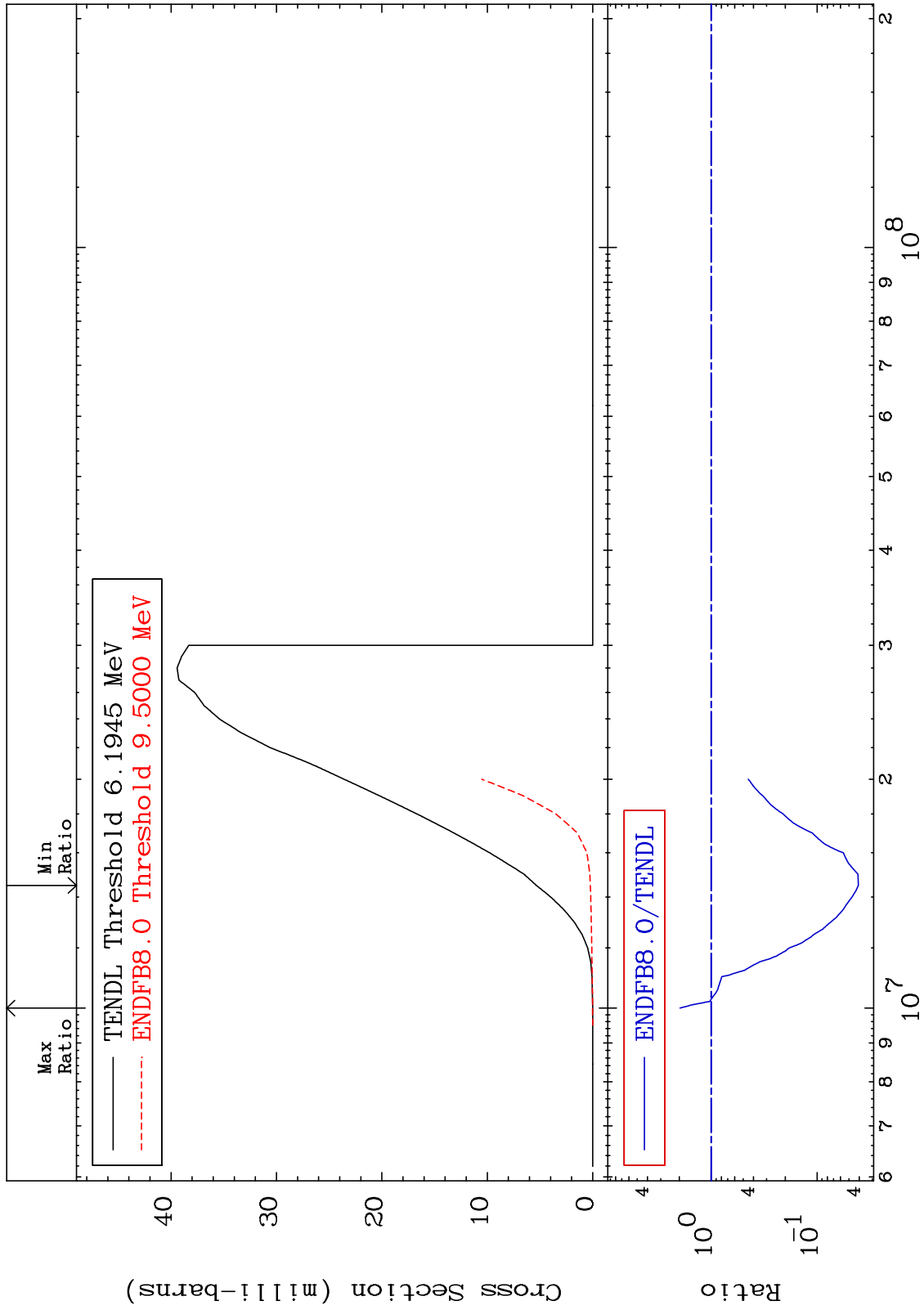
40-Zr-90

Cross Section

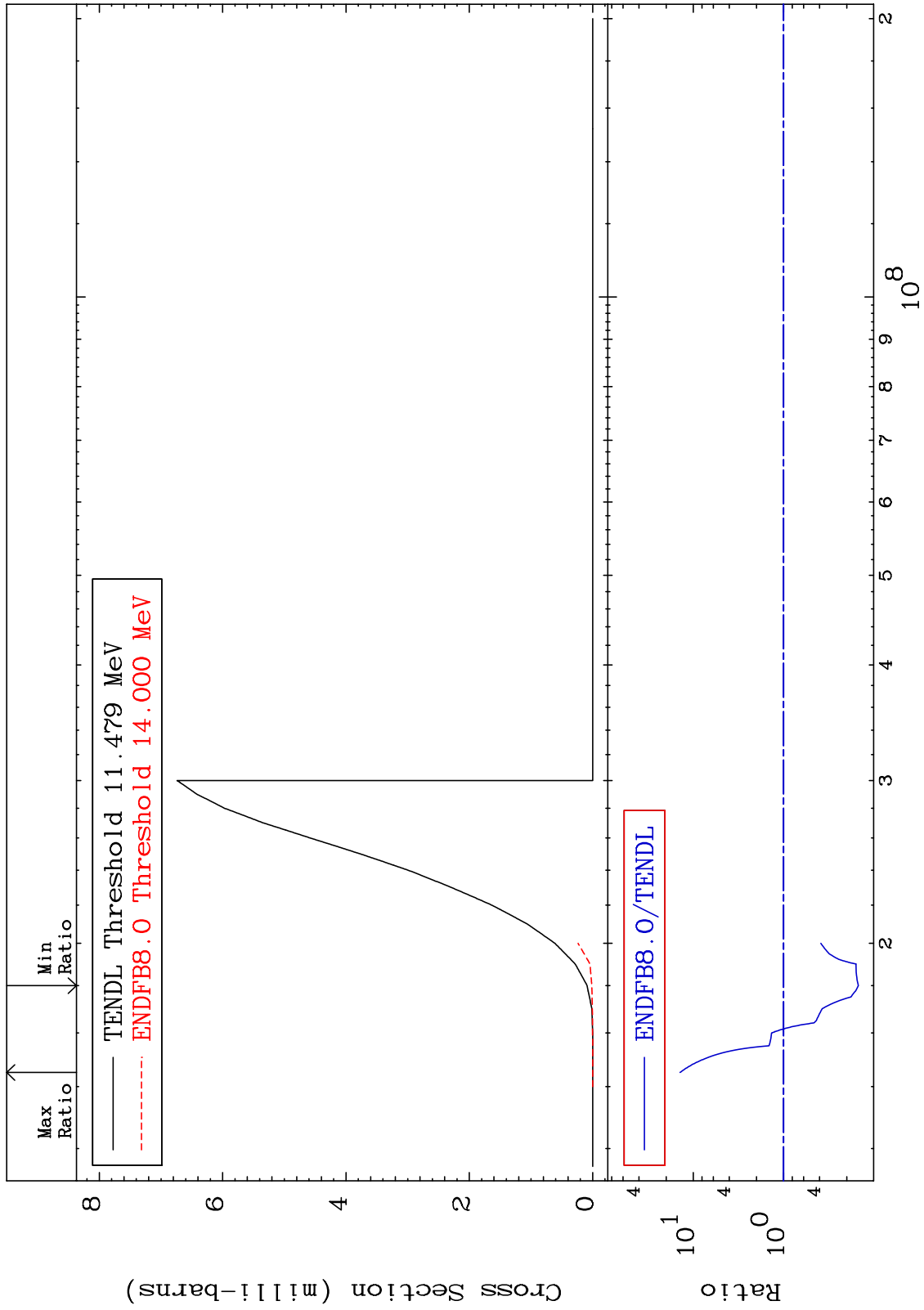
-98.53 To 21.91 %



MAT 4025 (n,d) Cross Section 40-Zr-90 -95.93 To 97.29 %



MAT 4025 (n, t) Cross Section 40-Zr-90 -85.16 To 1304. %



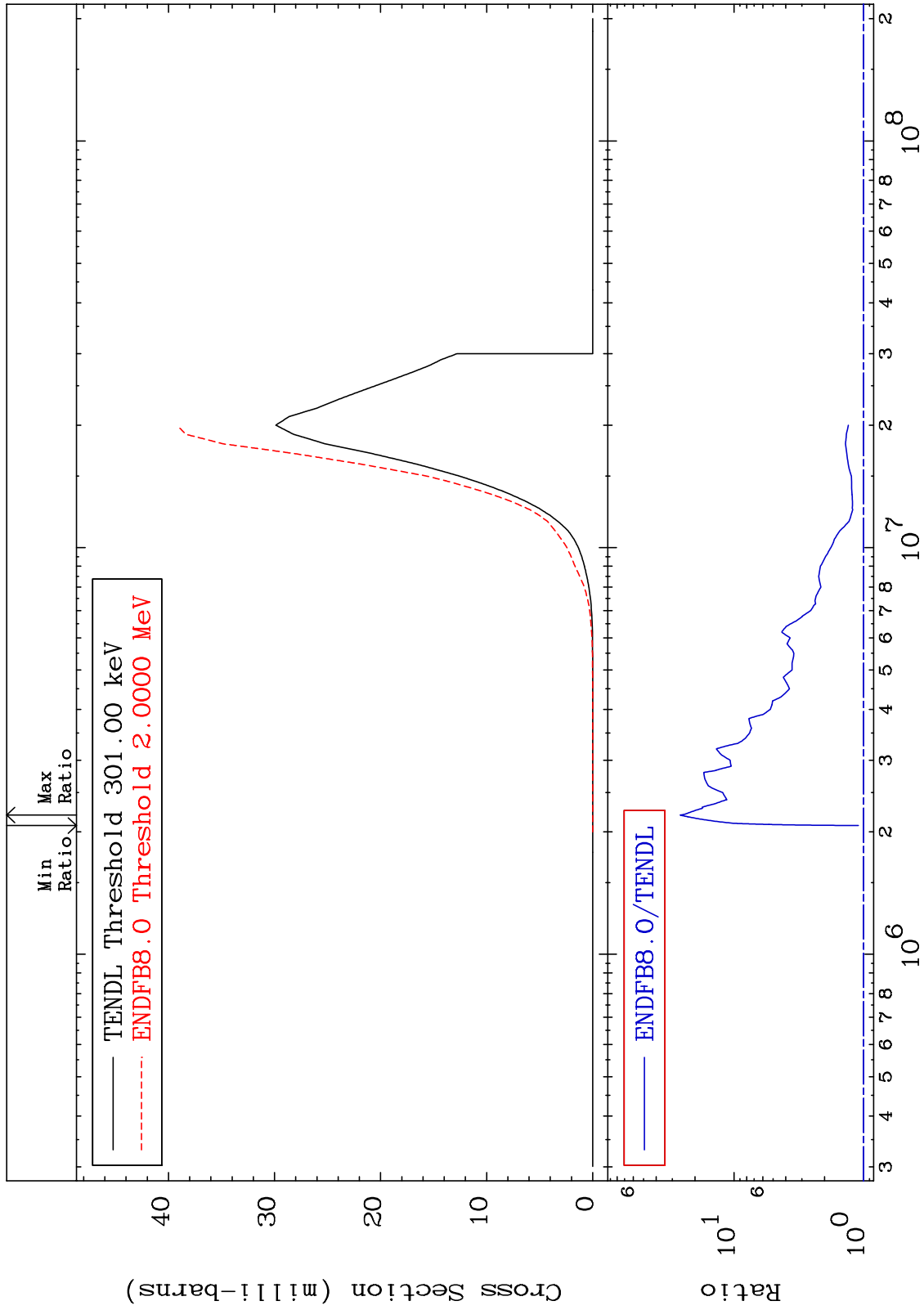
MAT 4025

(n, α)

40-Zr-90

Cross Section

9.768 To 2514. %



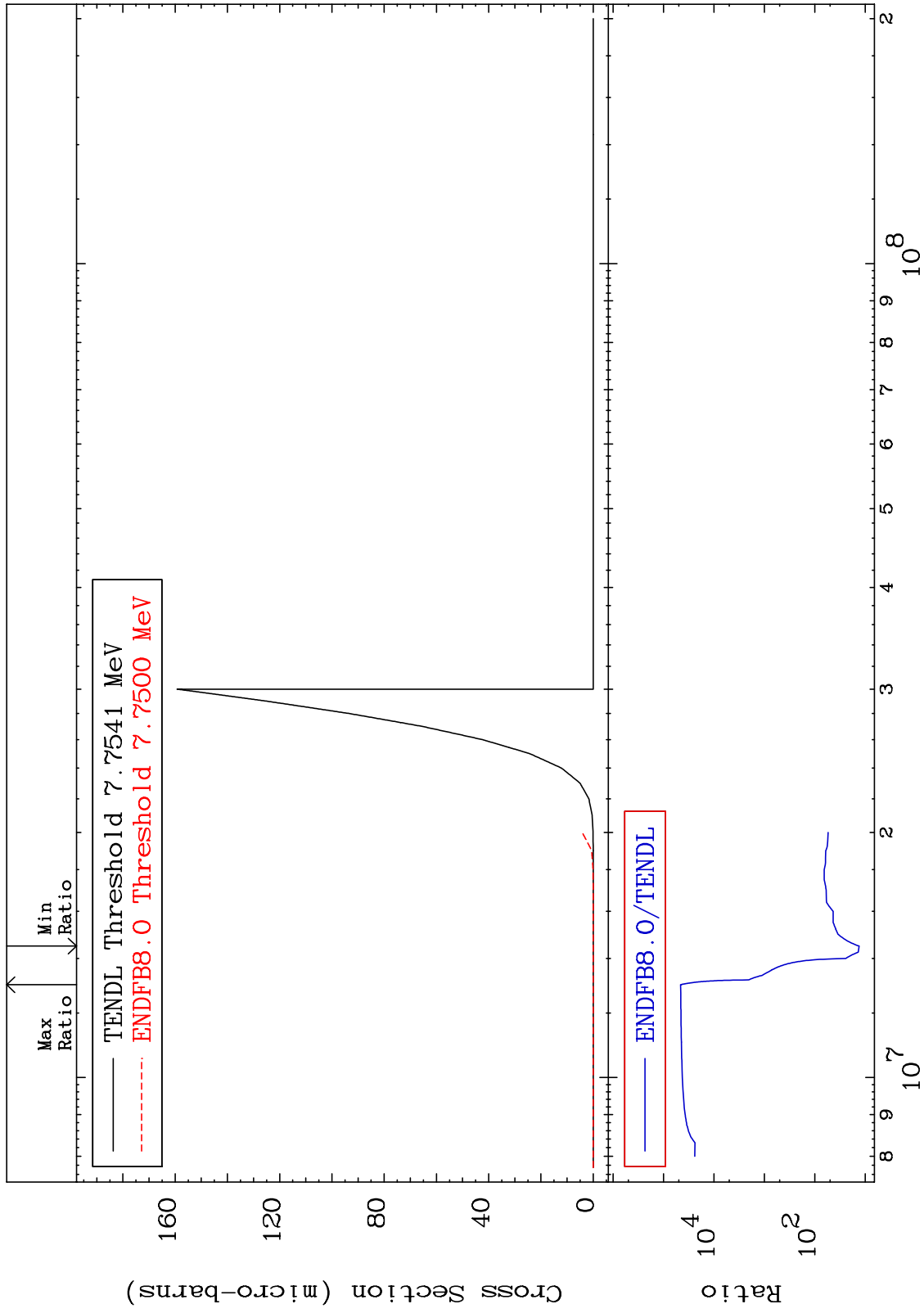
MAT 4025

(n,p) α

40-Zr-90

Cross Section

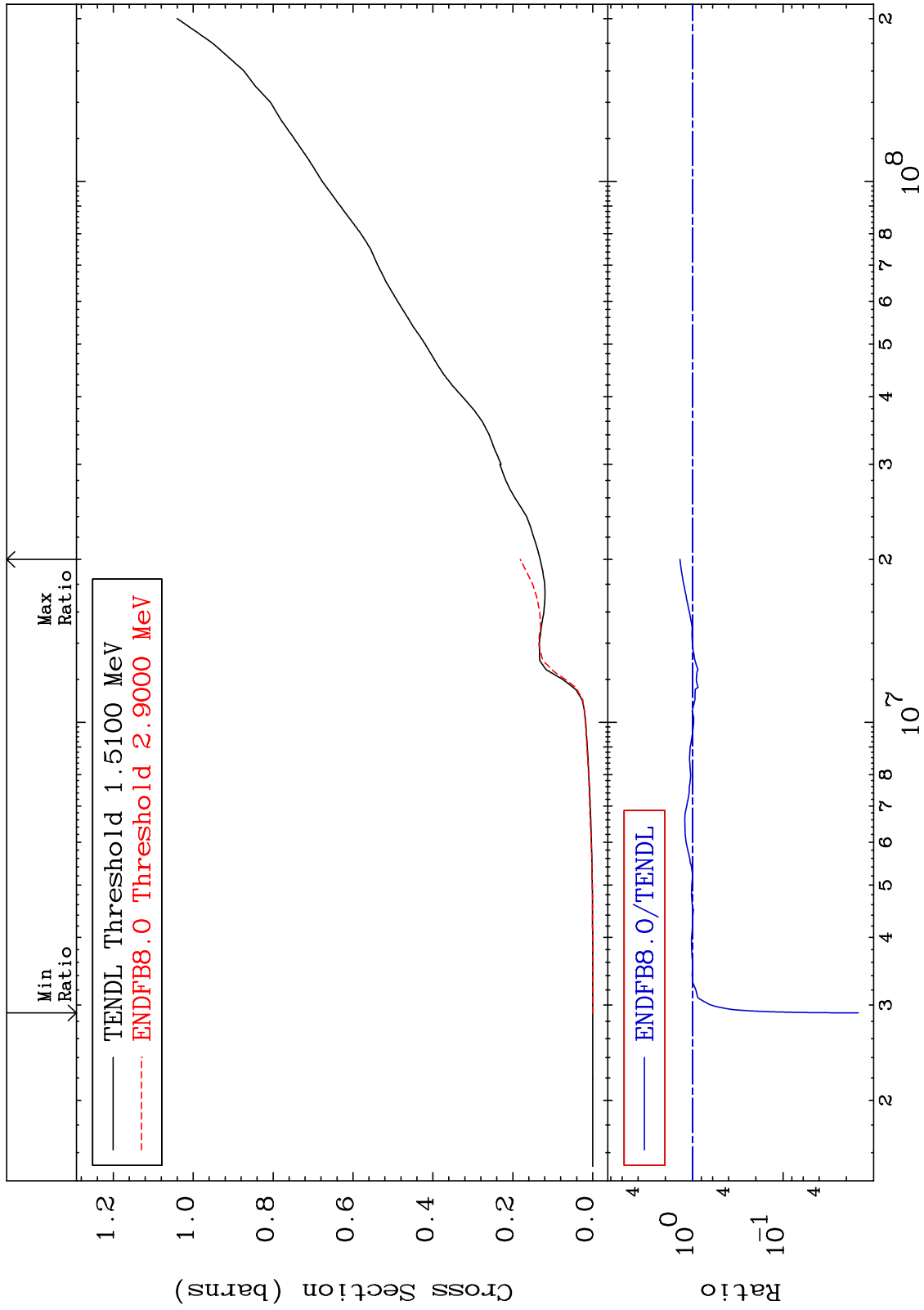
1223. To 9999. %



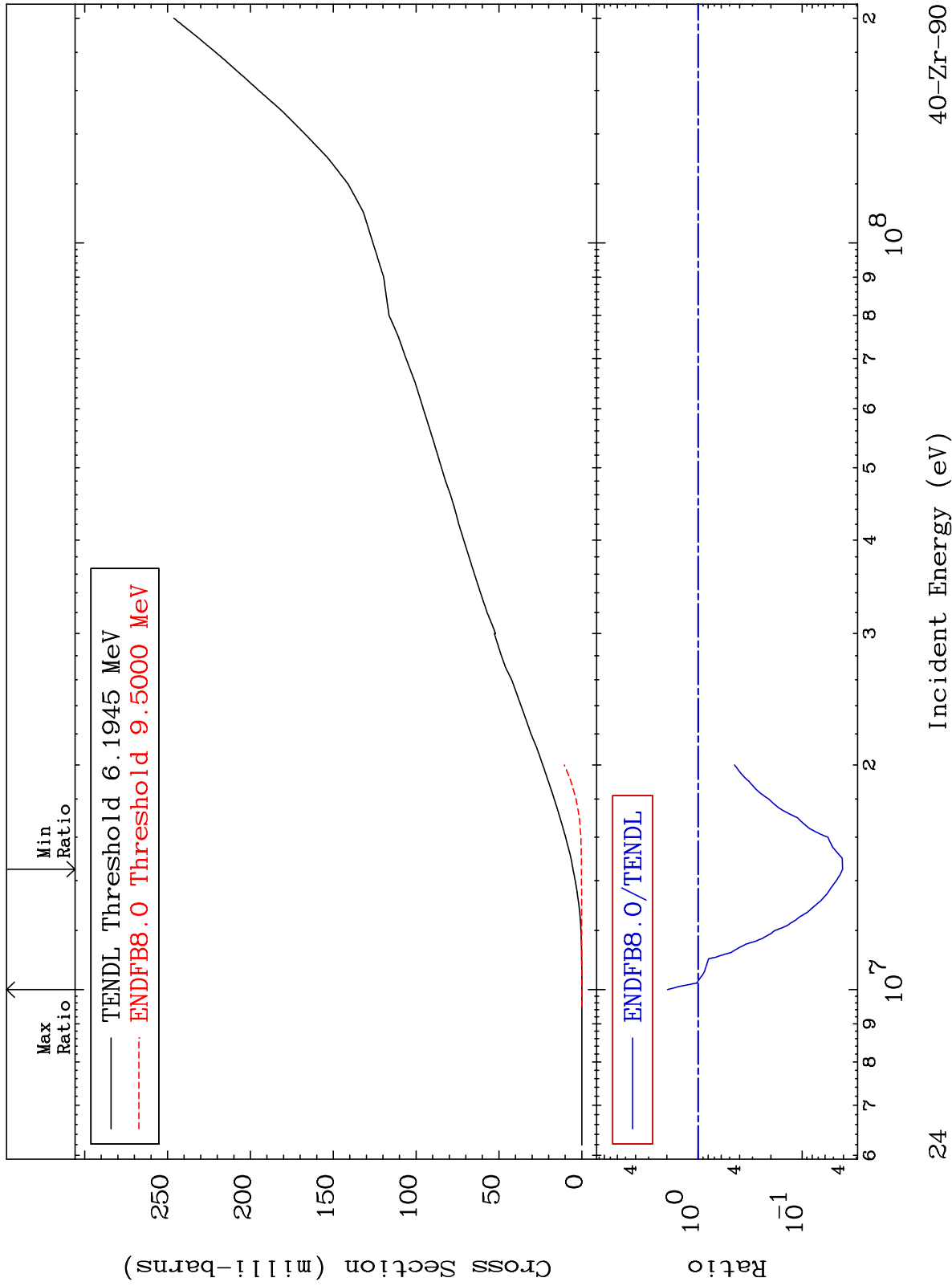
MAT 4025

Hydrogen Production
Cross Section

40-Zr-90
-98.53 To 37.77 %



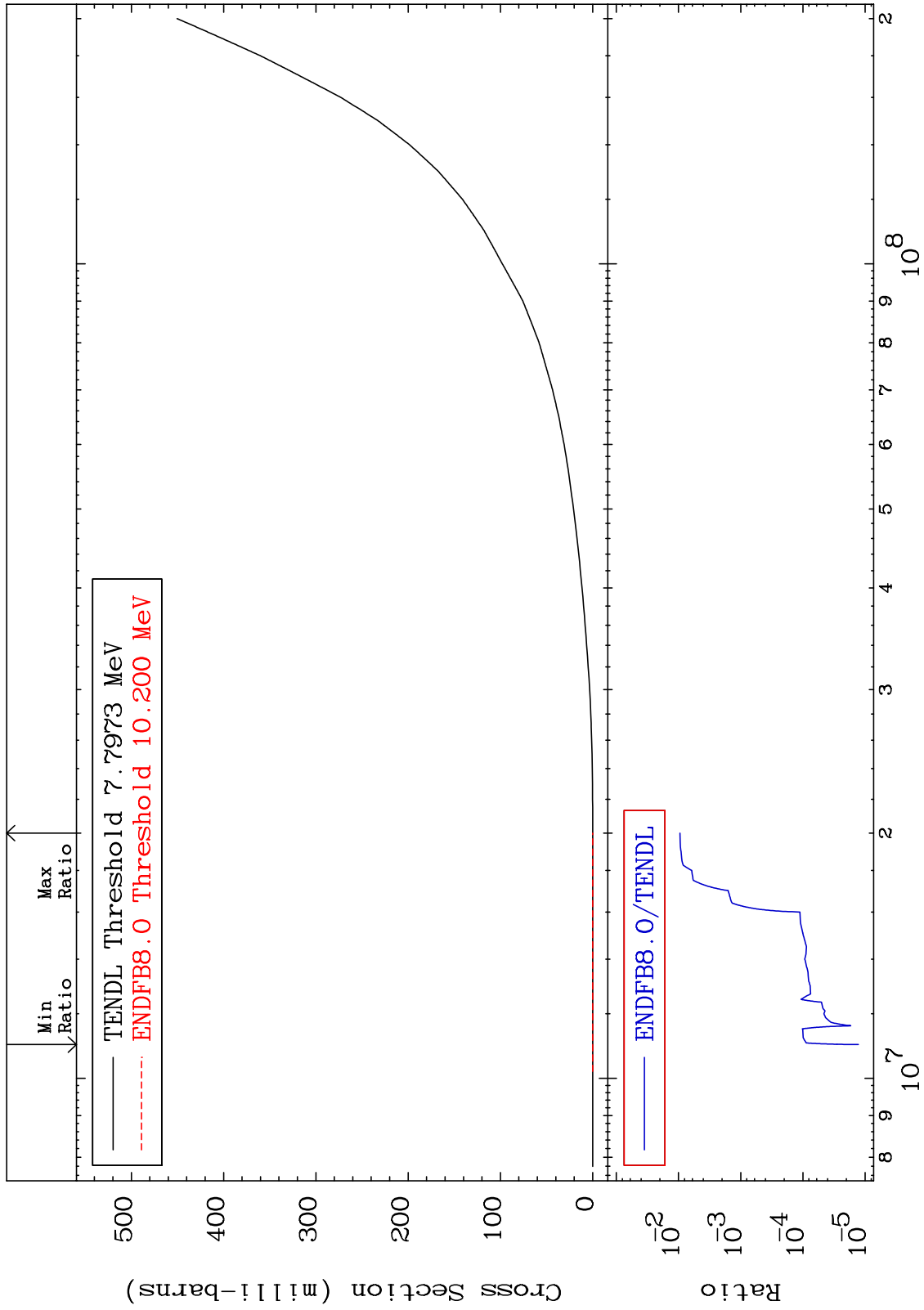
MAT 4025 Deuterium Production Cross Section 40-Zr-90 -95.93 To 97.29 %



MAT 4025

He-3 Production
Cross Section

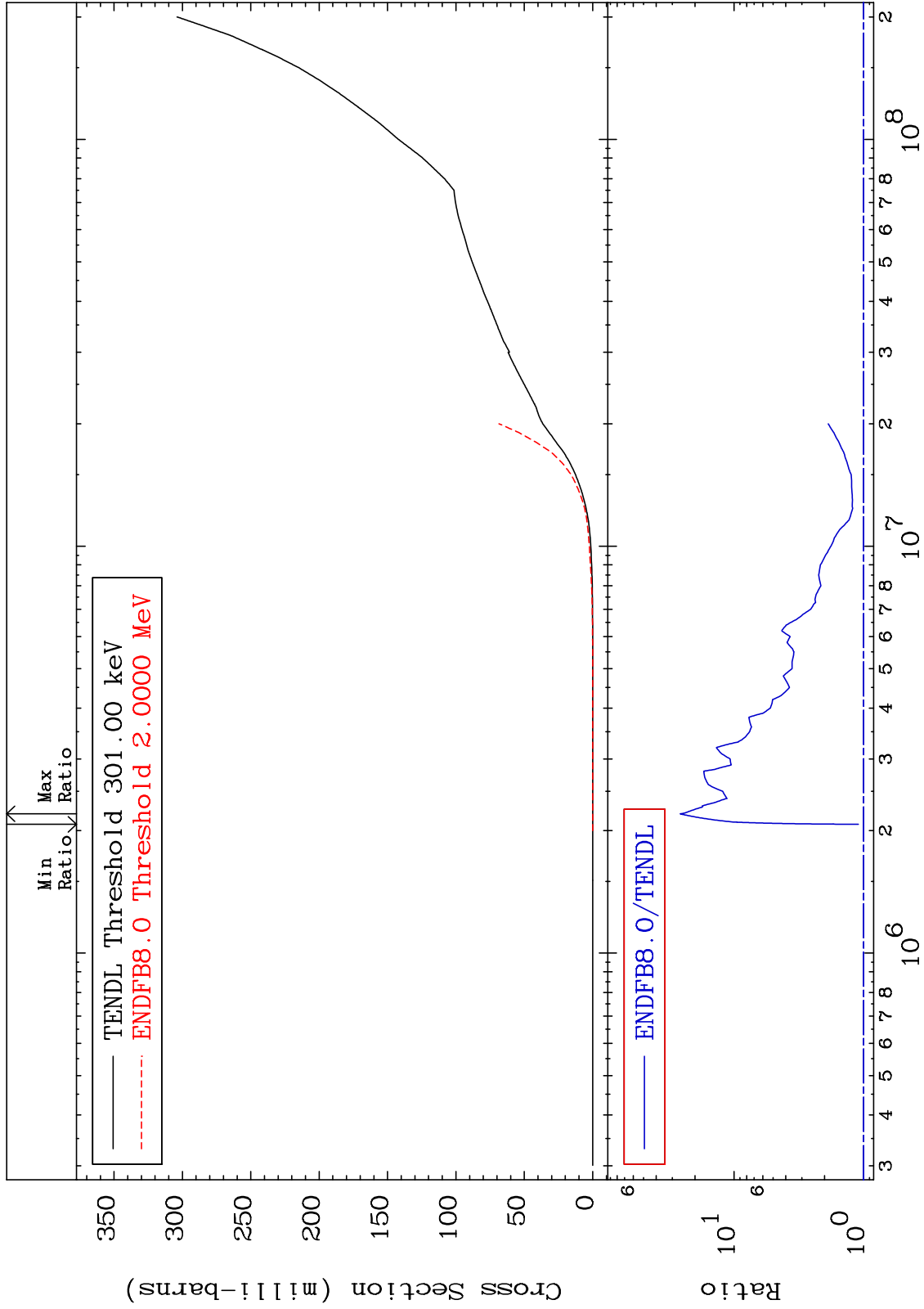
40-Zr-90
-100.0 To -99.05%



MAT 4025

He-4 Production
Cross Section

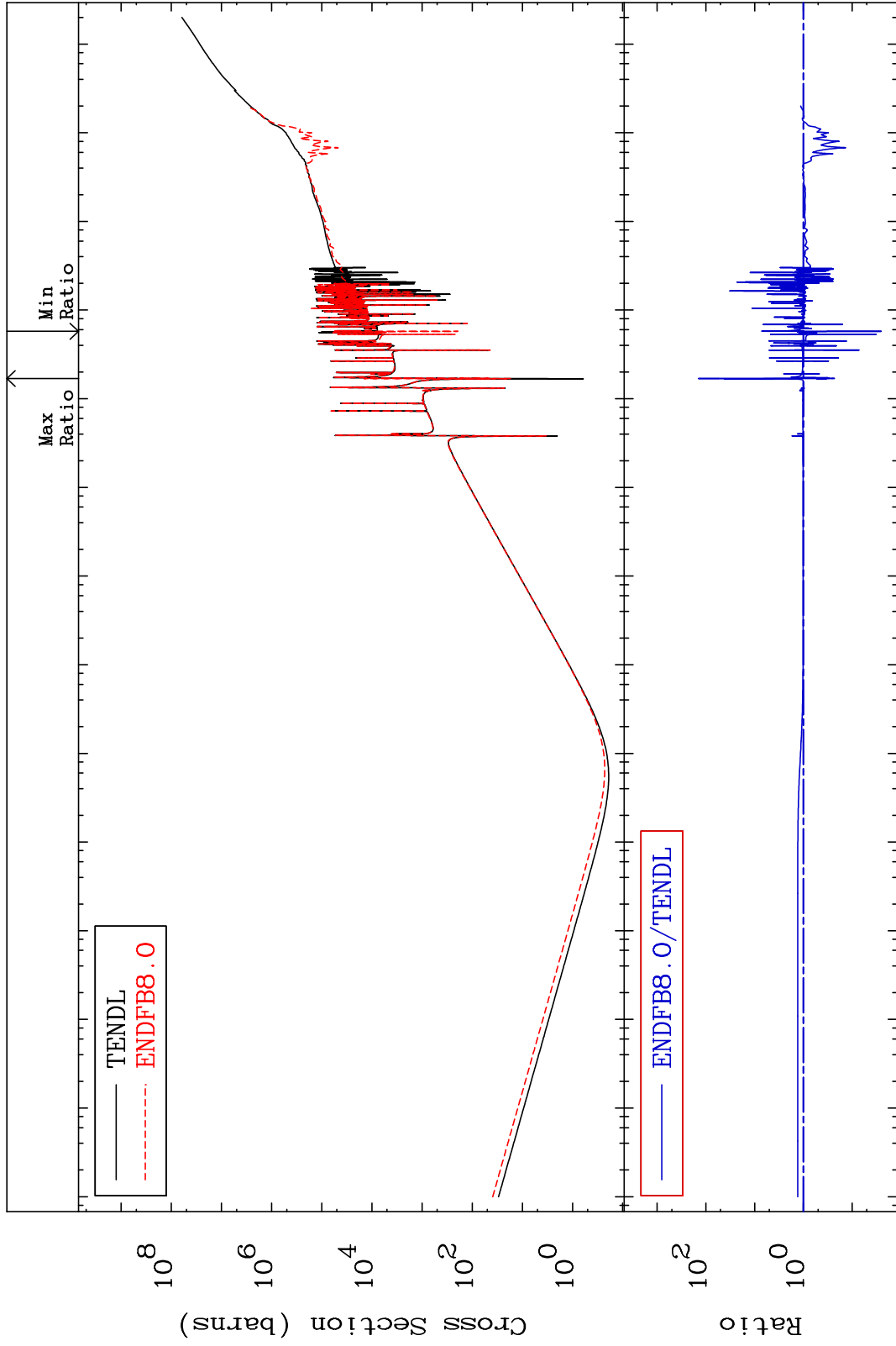
40-Zr-90
9.768 To 2514. %



MAT 4025

Kerma total (eV-barns)
Cross Section

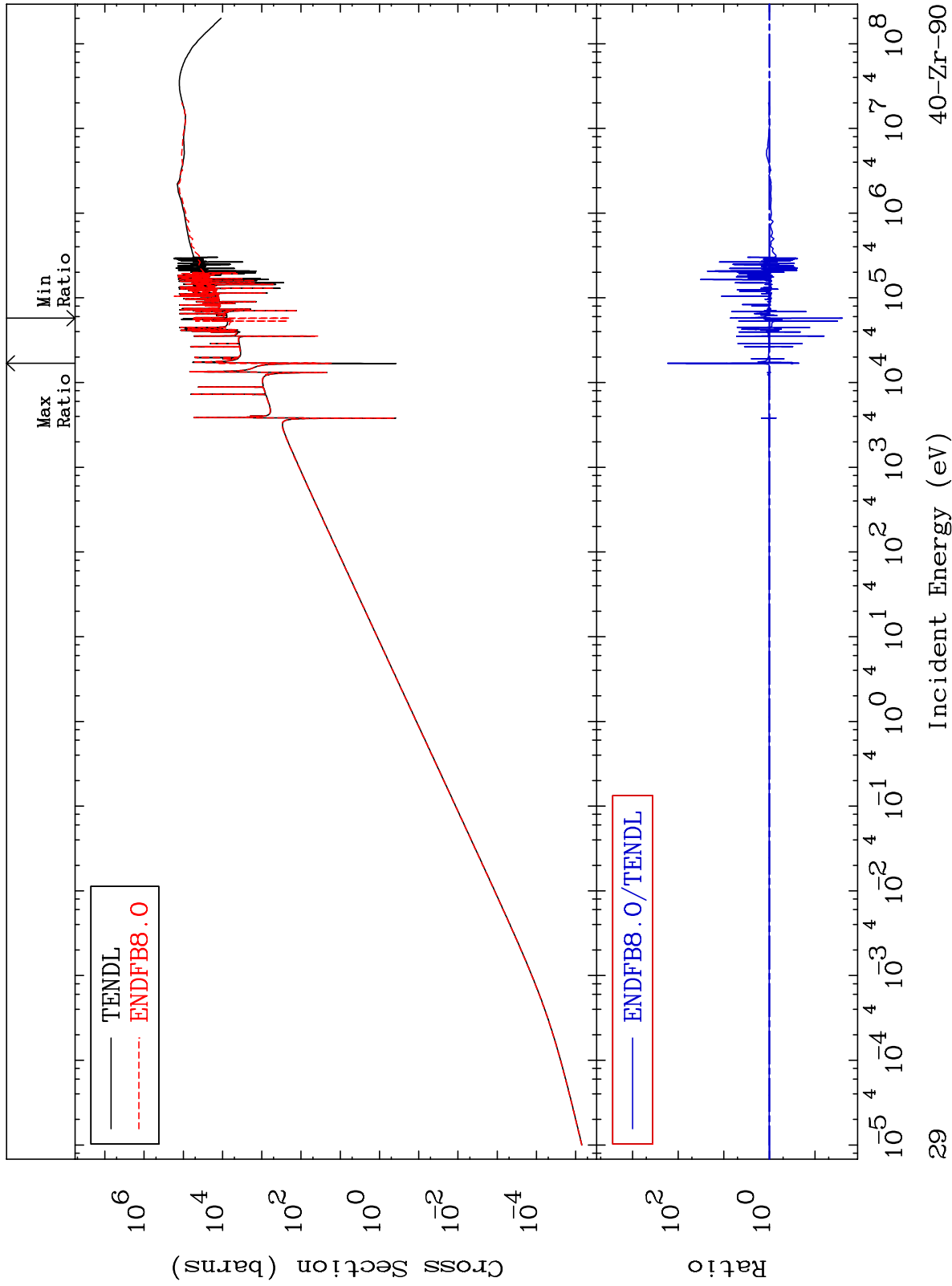
40-Zr-90
-97.51 To 9999. %



MAT 4025

Kerma elastic
Cross Section

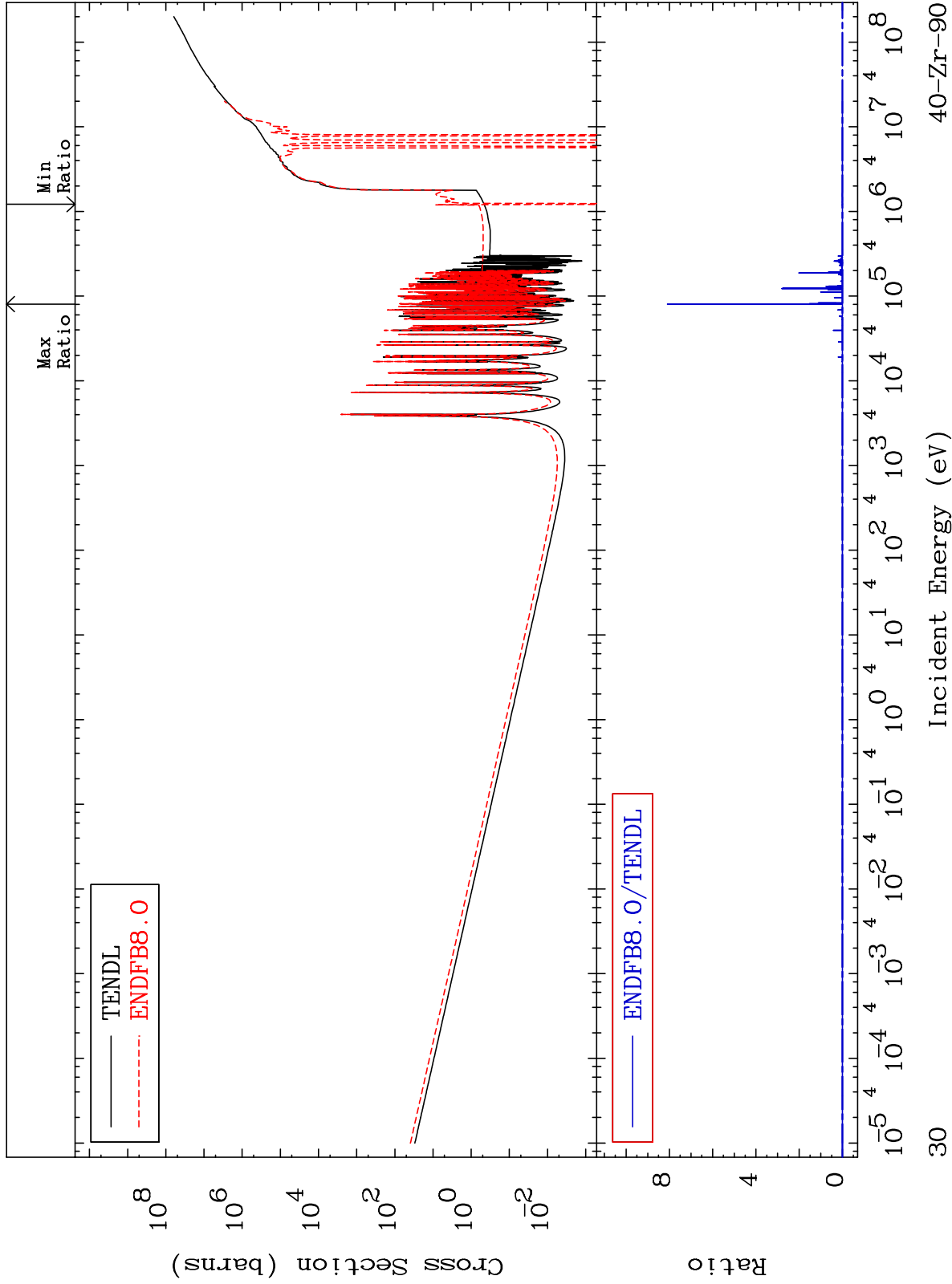
40-Zr-90
-97.53 To 9999. %



MAT 4025

Kerma non-elastic (all but mt2)
Cross Section

40-Zr-90
-856.0 To 9999. %



30

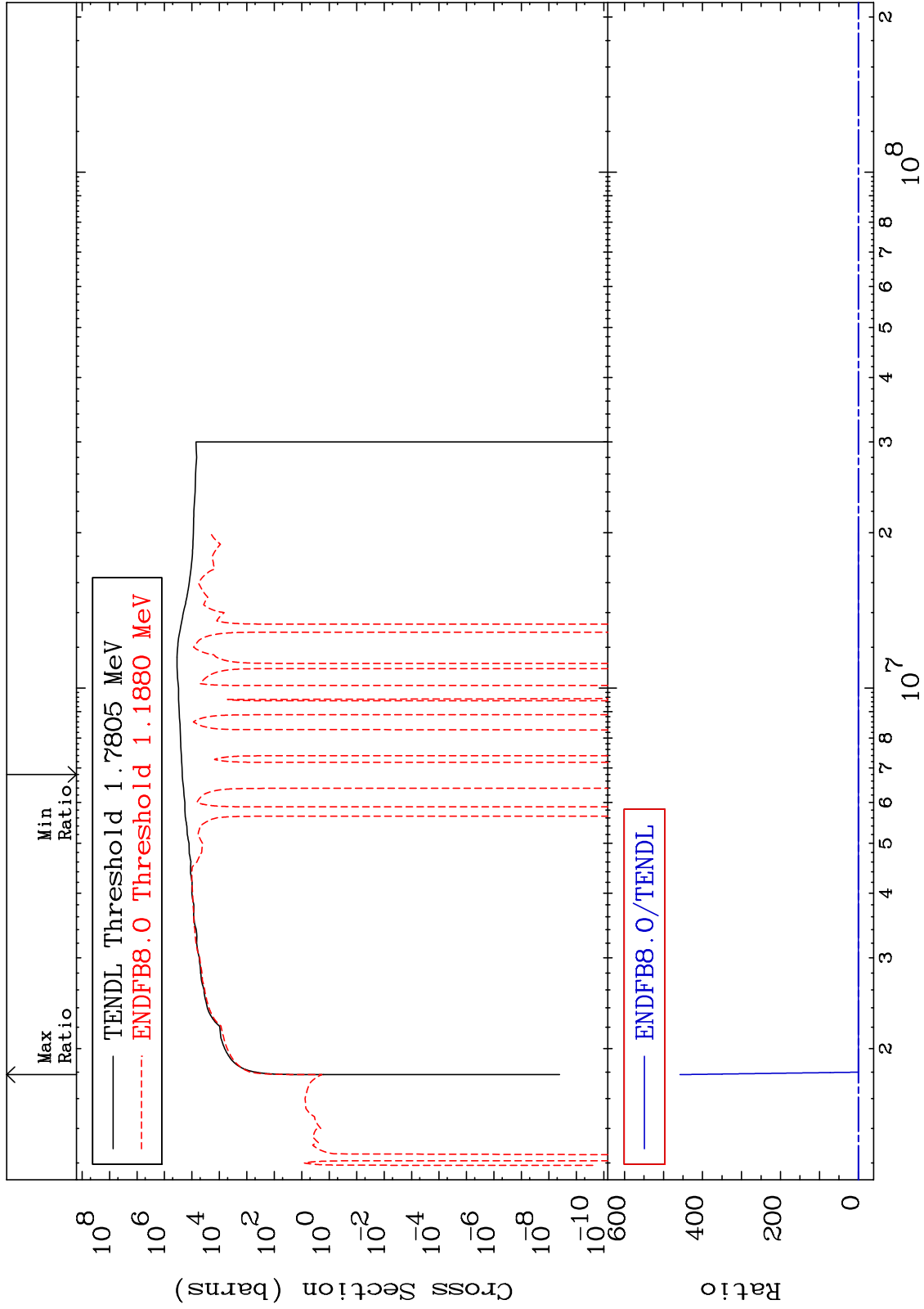
Incident Energy (eV)

40-Zr-90

MAT 4025

Kerma inelastic (mt51-91)
Cross Section

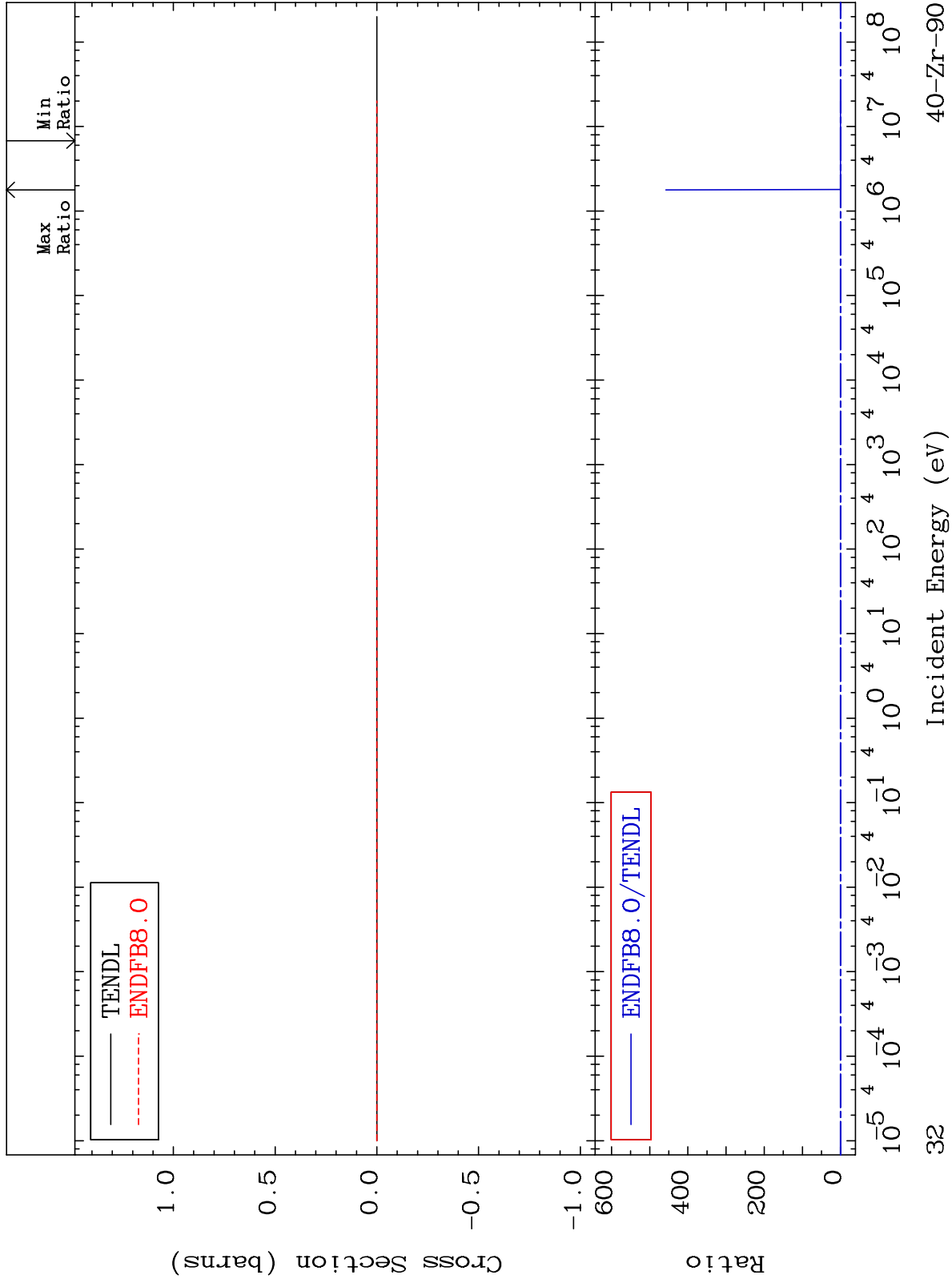
40-Zr-90
-140.3 To 9999. %



MAT 4025

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

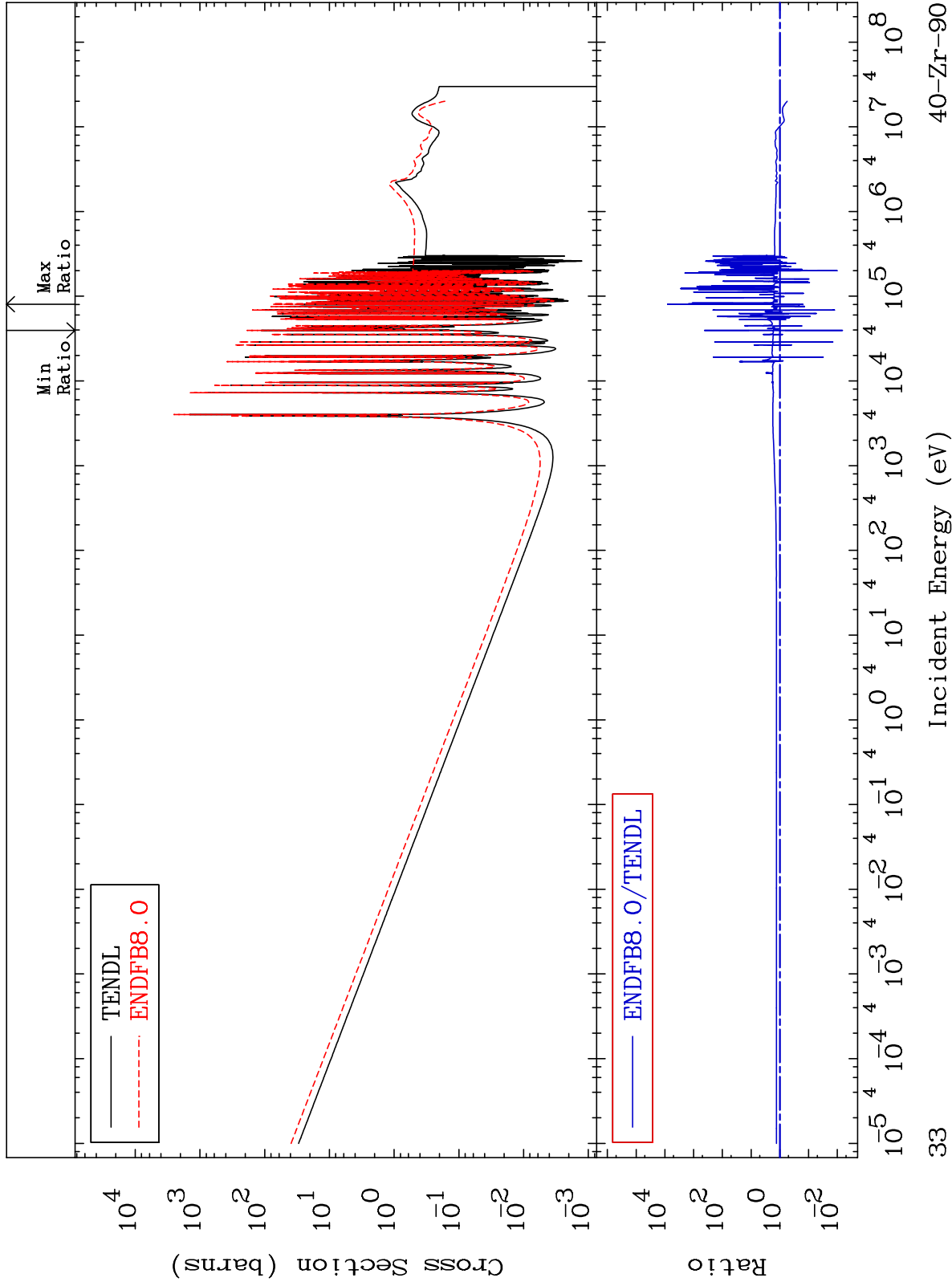
40-Zr-90
-140.3 To 9999. %



MAT 4025

Kerma capture (mt102)
Cross Section

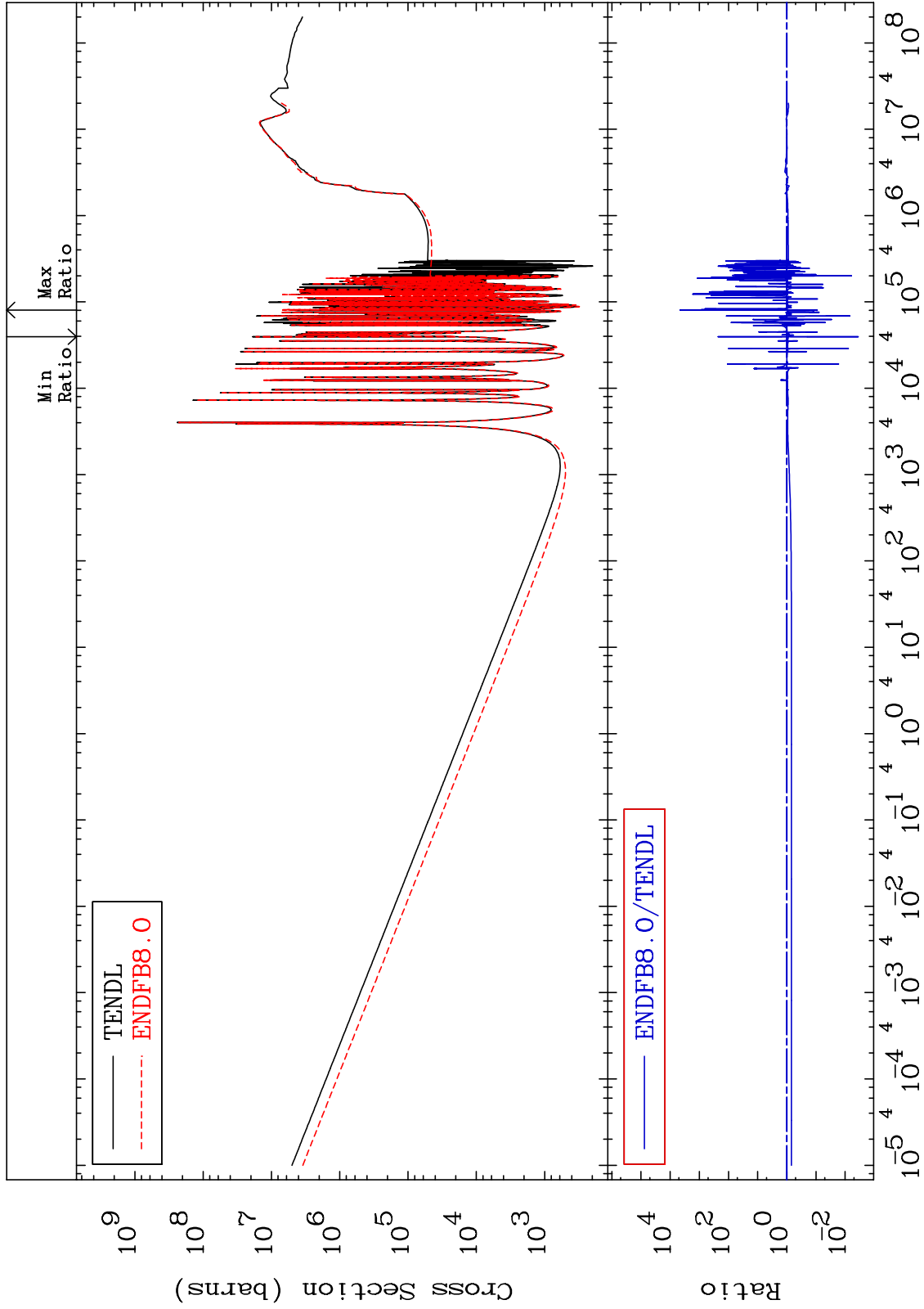
40-Zr-90
-99.35 To 9999. %



MAT 4025

Total photon (eV-barns)
Cross Section

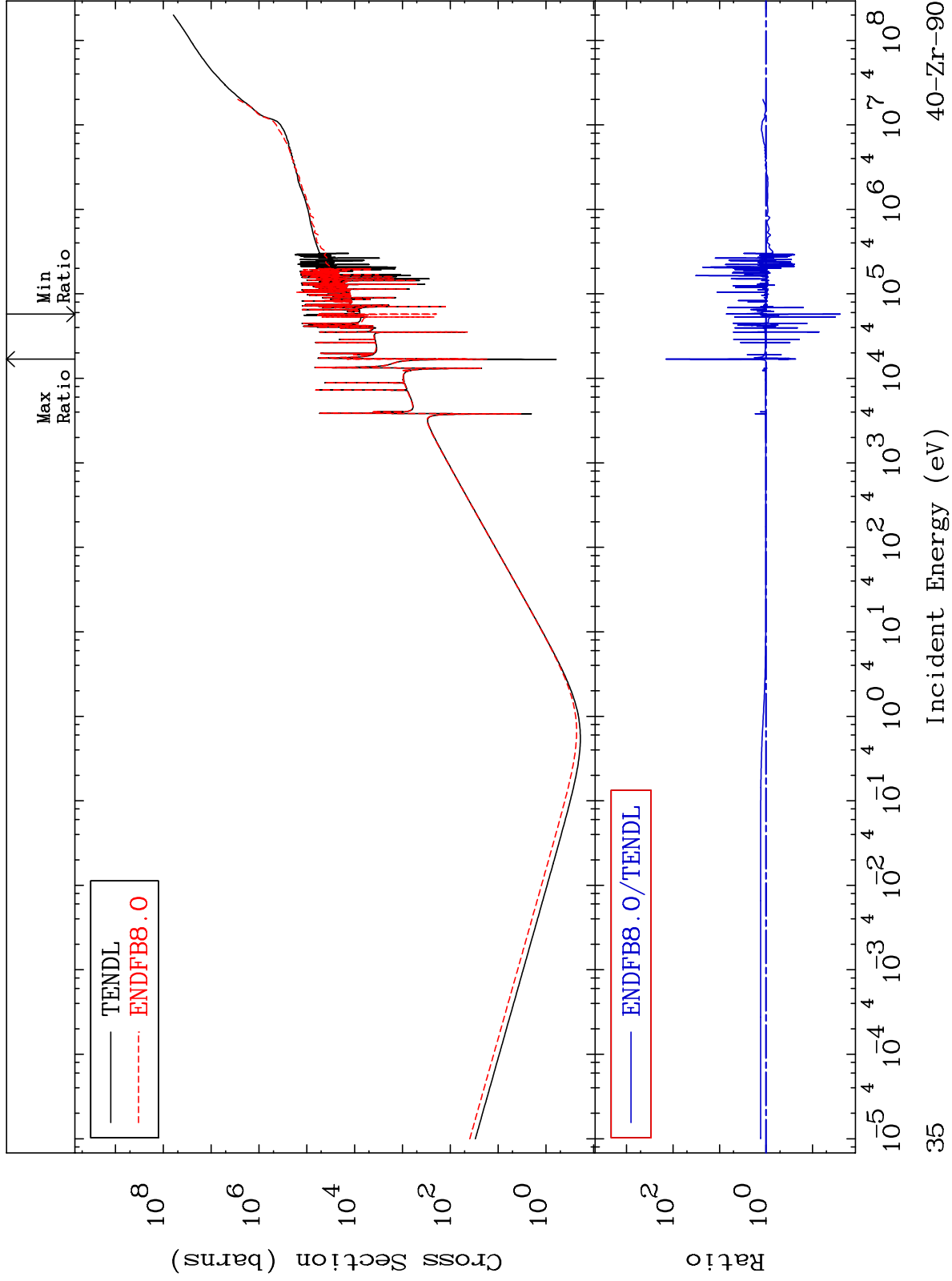
40-Zr-90
-99.65 To 9999. %



MAT 4025

Total kinematic kerma (high limit)
Cross Section

40-Zr-90
-97.51 To 9999. %



35

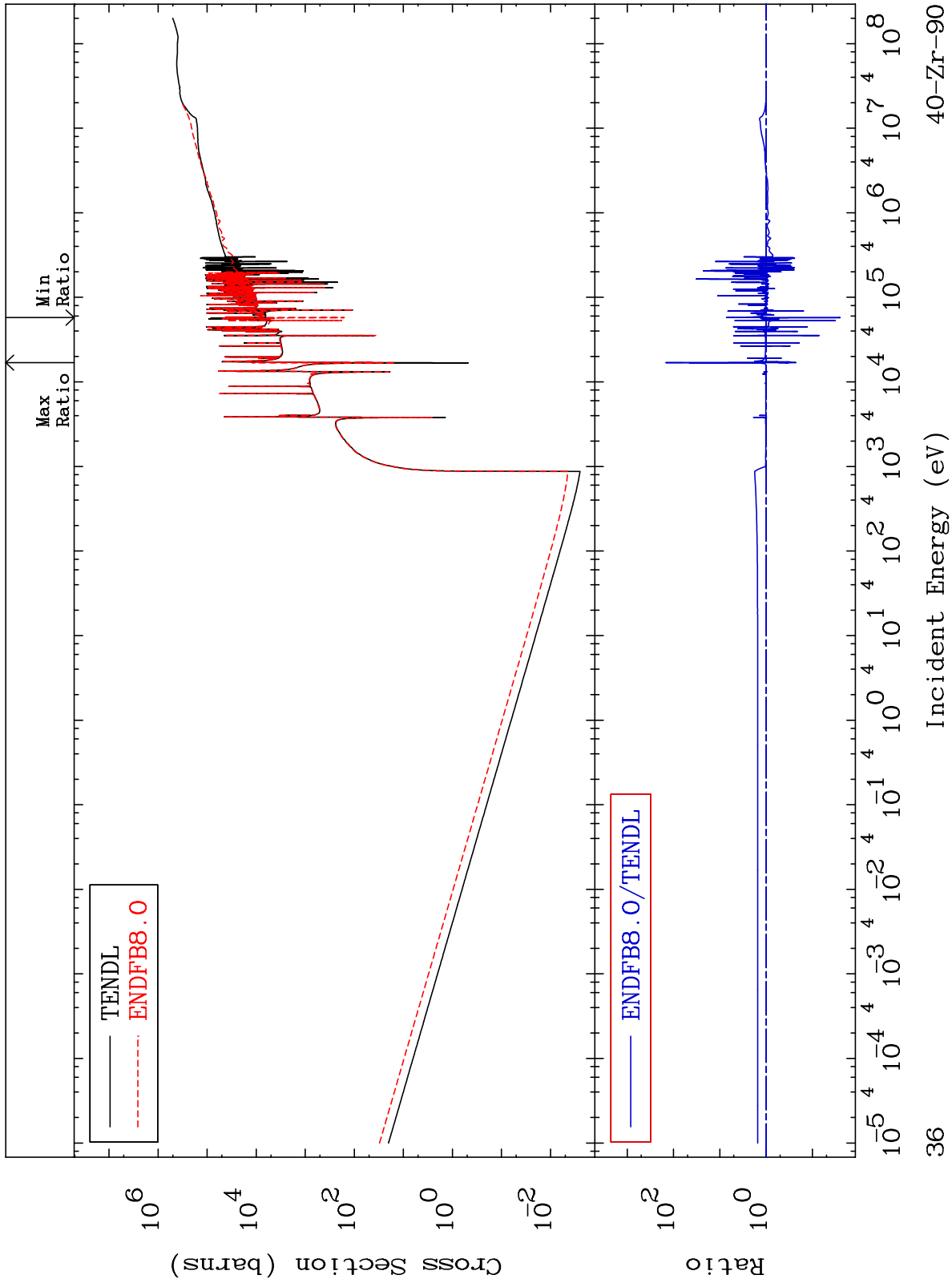
Incident Energy (eV)

40-Zr-90

MAT 4025

Dpa total (eV-barns)
Cross Section

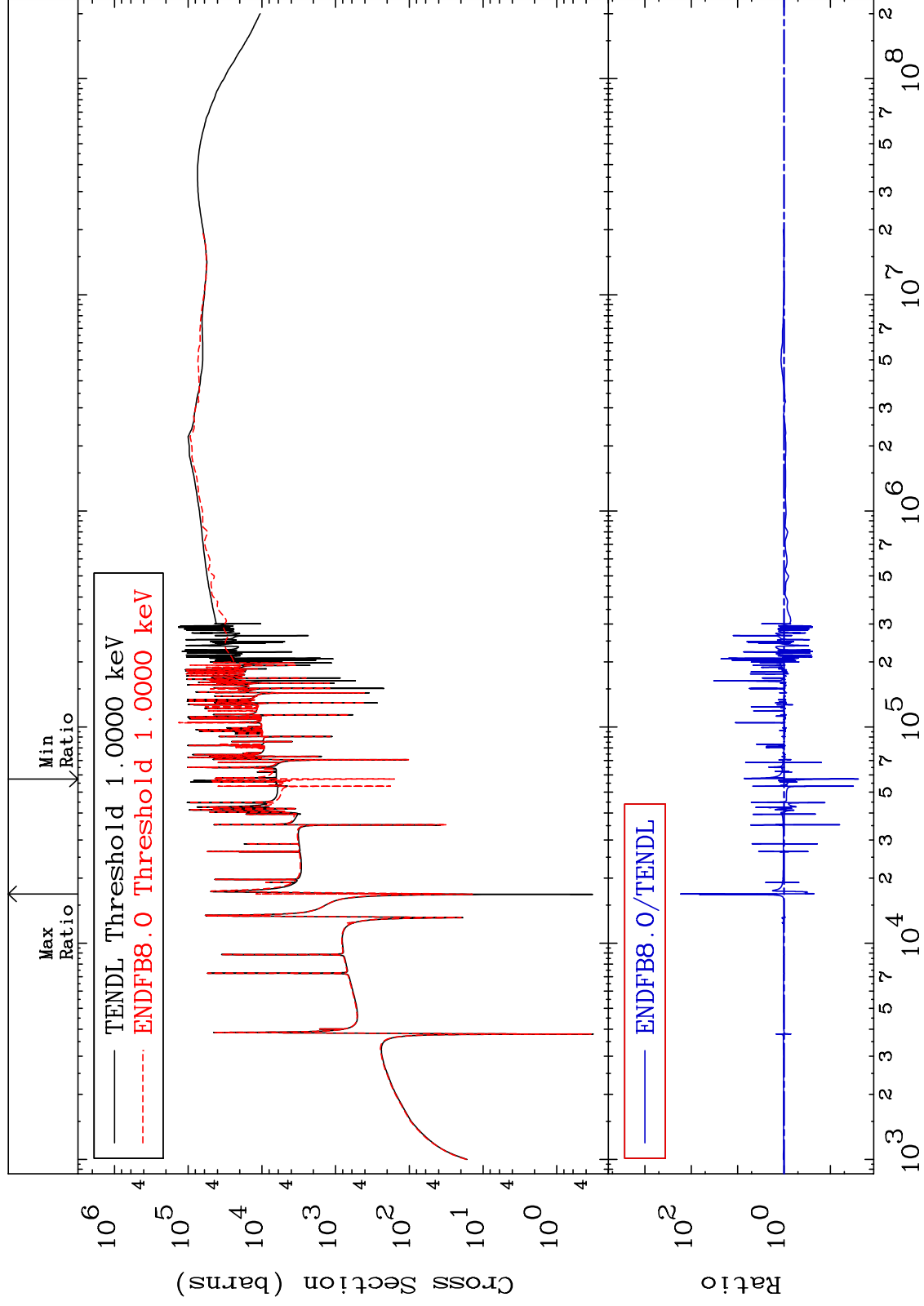
40-Zr-90
-97.51 To 9999. %



MAT 4025

Dpa elastic (mt2)
Cross Section

40-Zr-90
-97.52 To 9999. %



37

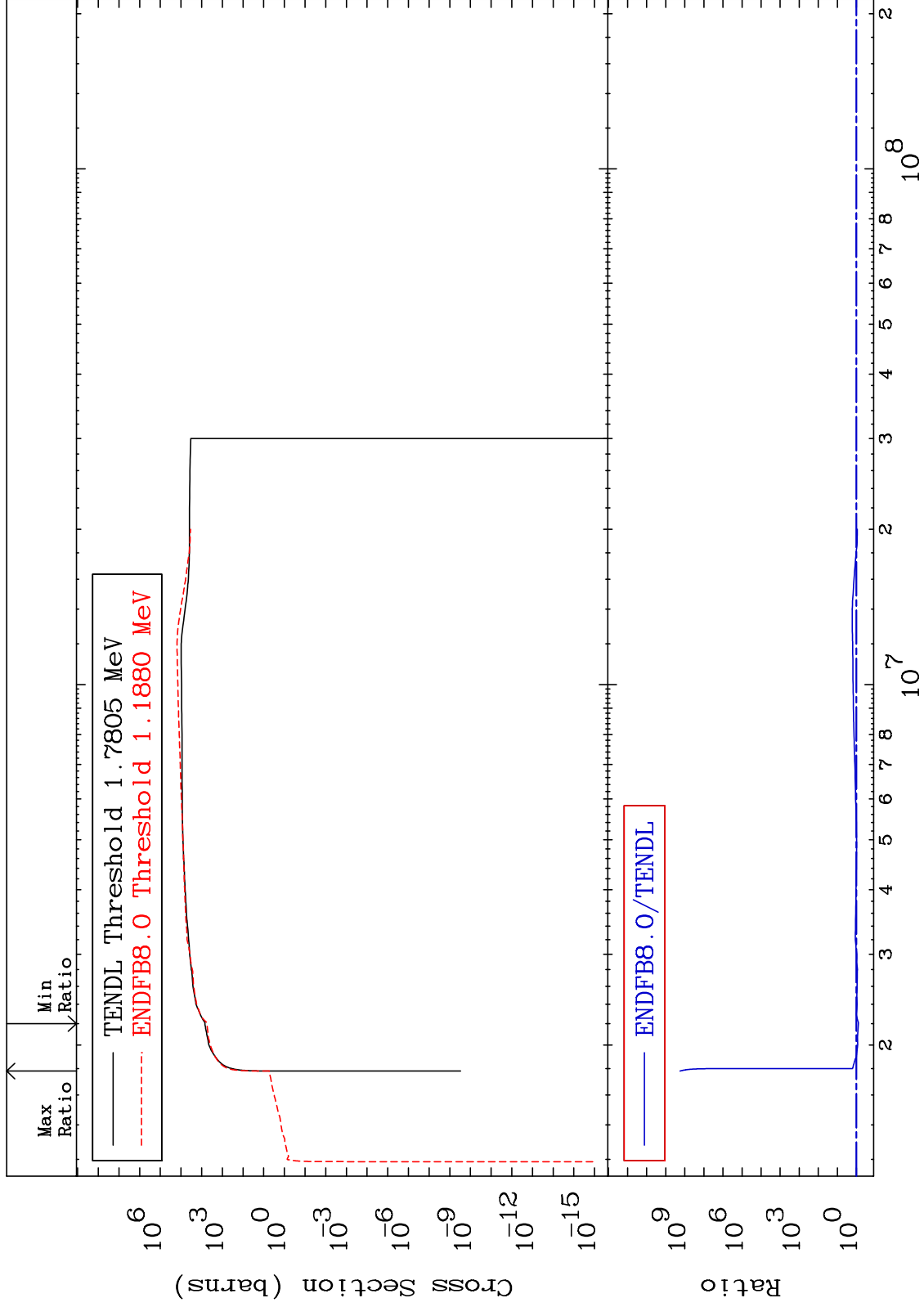
Incident Energy (eV)

40-Zr-90

MAT 4025

Dpa inelastic (mt51-91)
Cross Section

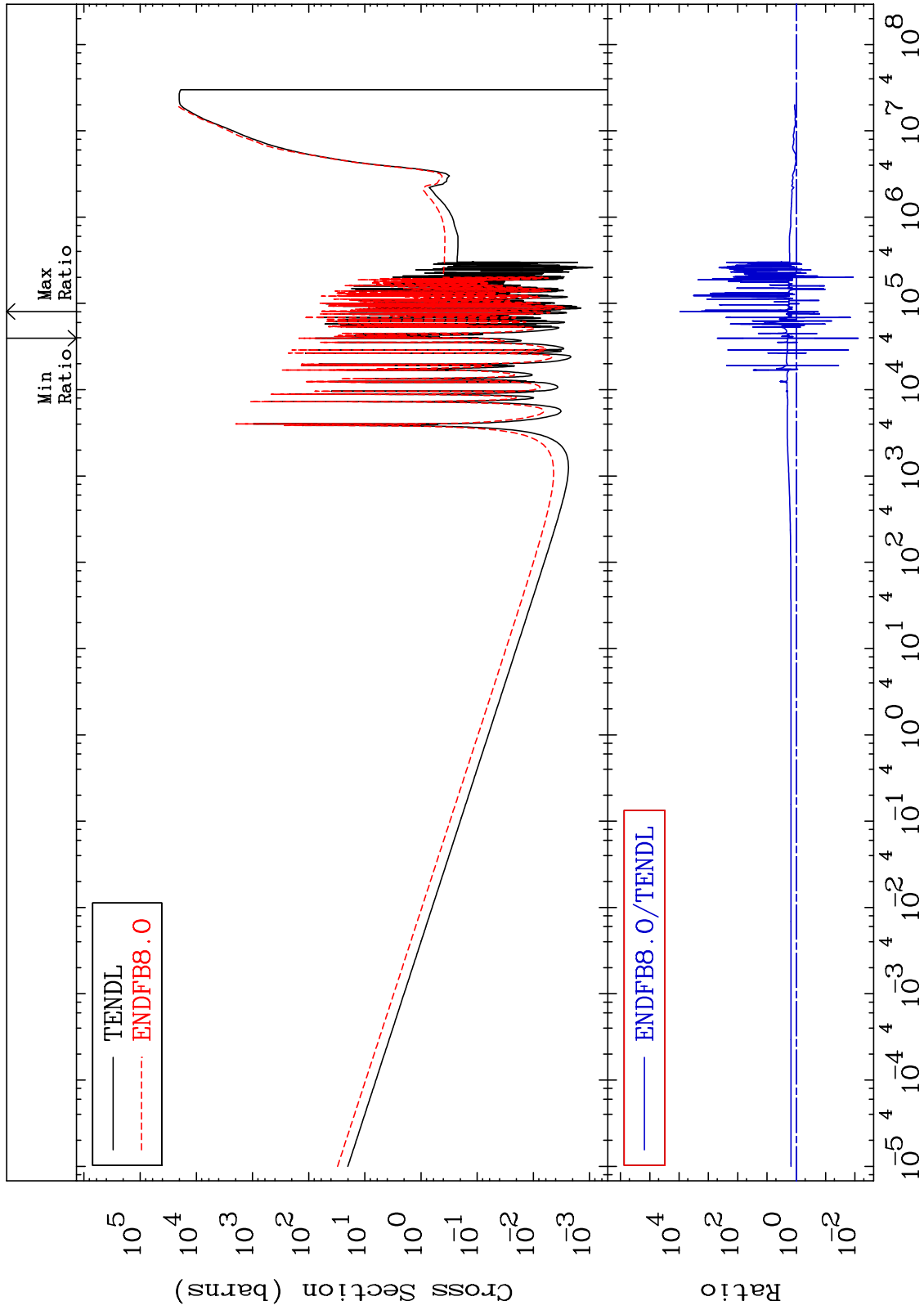
40-Zr-90
-20.82 To 9999. %



MAT 4025

Dpa disappearance (mt102 -120)
Cross Section

40-Zr-90
-99.24 To 9999. %



39

Incident Energy (eV)

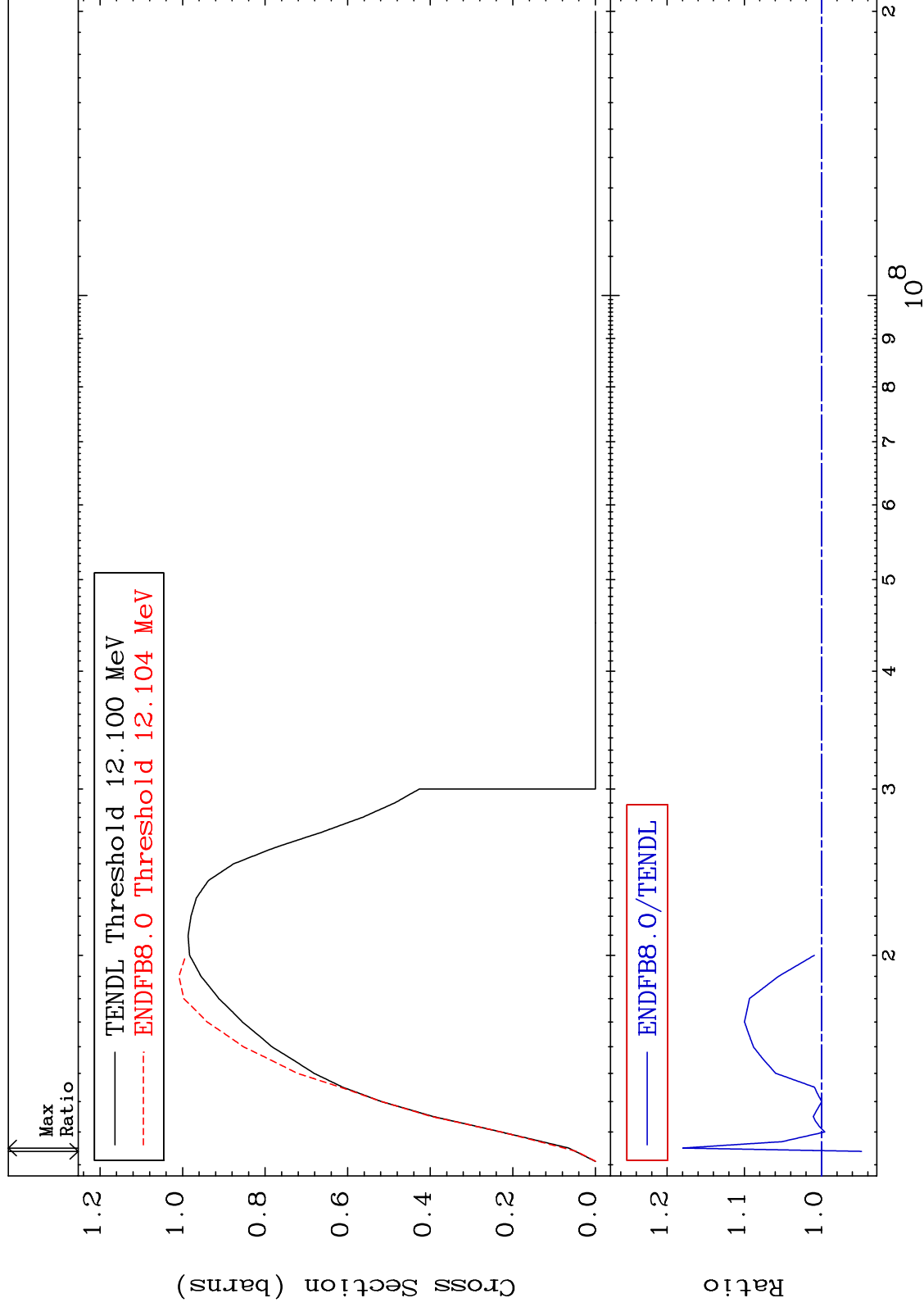
40-Zr-90

MAT 4025

(n,2n) : 40-Zr-89g

40-Zr-90

Radionuclide Production Cross Section -5.189 To 17.96 %



40

Incident Energy (eV)

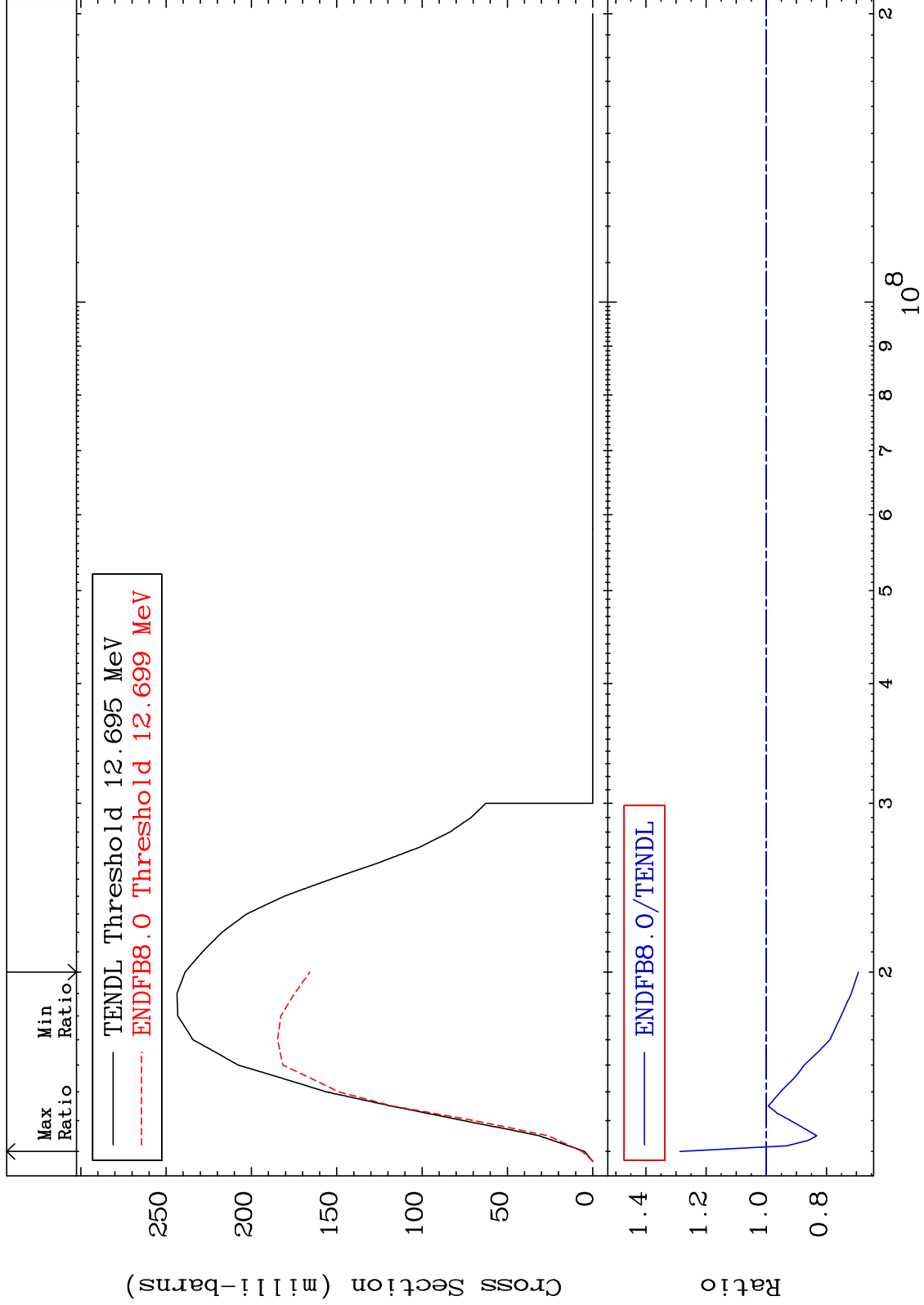
40-Zr-90

MAT 4025

(n,2n):40-Zr-89m1

40-Zr-90

Radionuclide Production Cross Section -30.63 To 28.66 %



40-Zr-90

Incident Energy (eV)

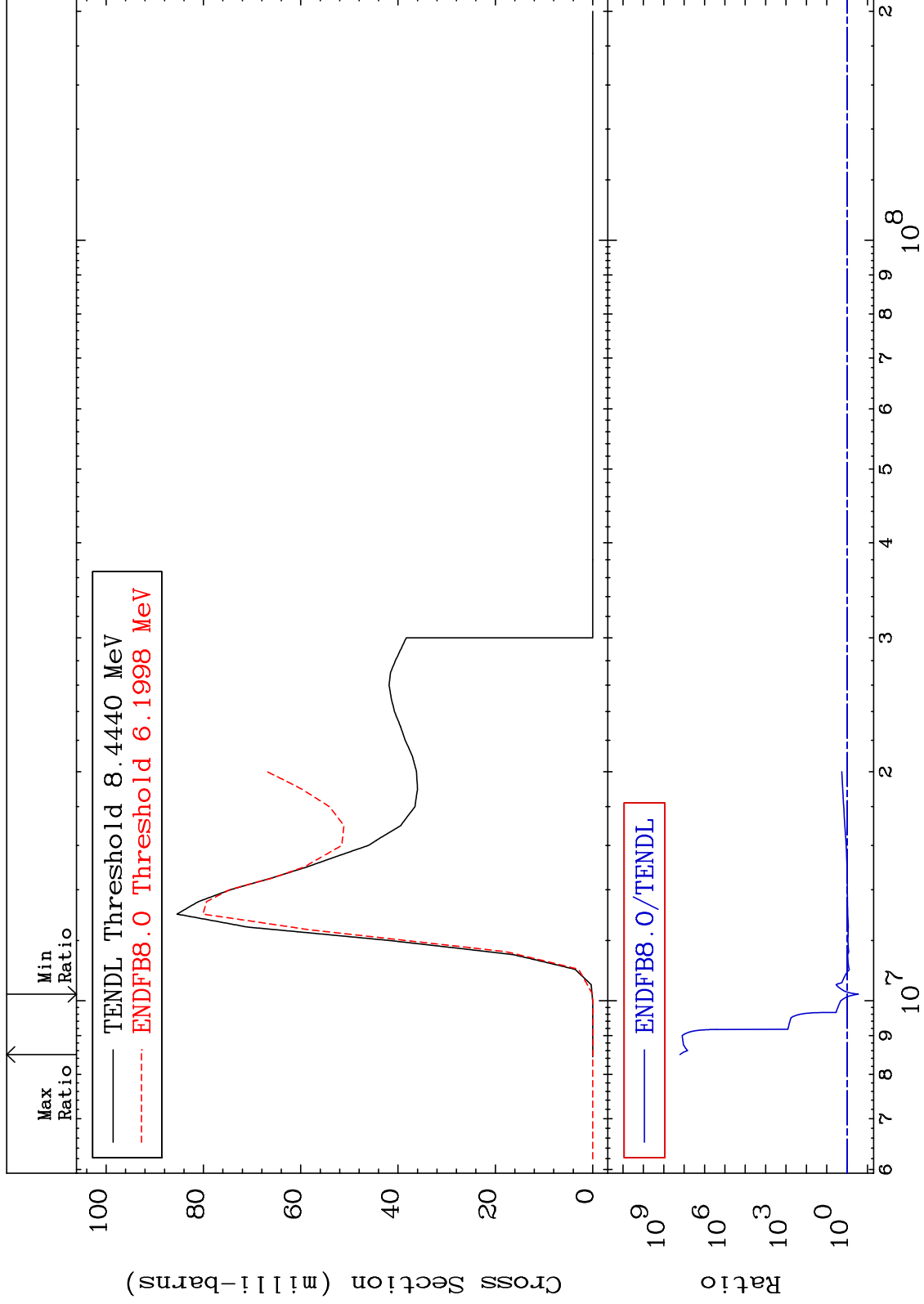
41

MAT 4025

(n, n') p:39-Y -89g

40-Zr-90

Radionuclide Production Cross Section -71.92 To 9999. %

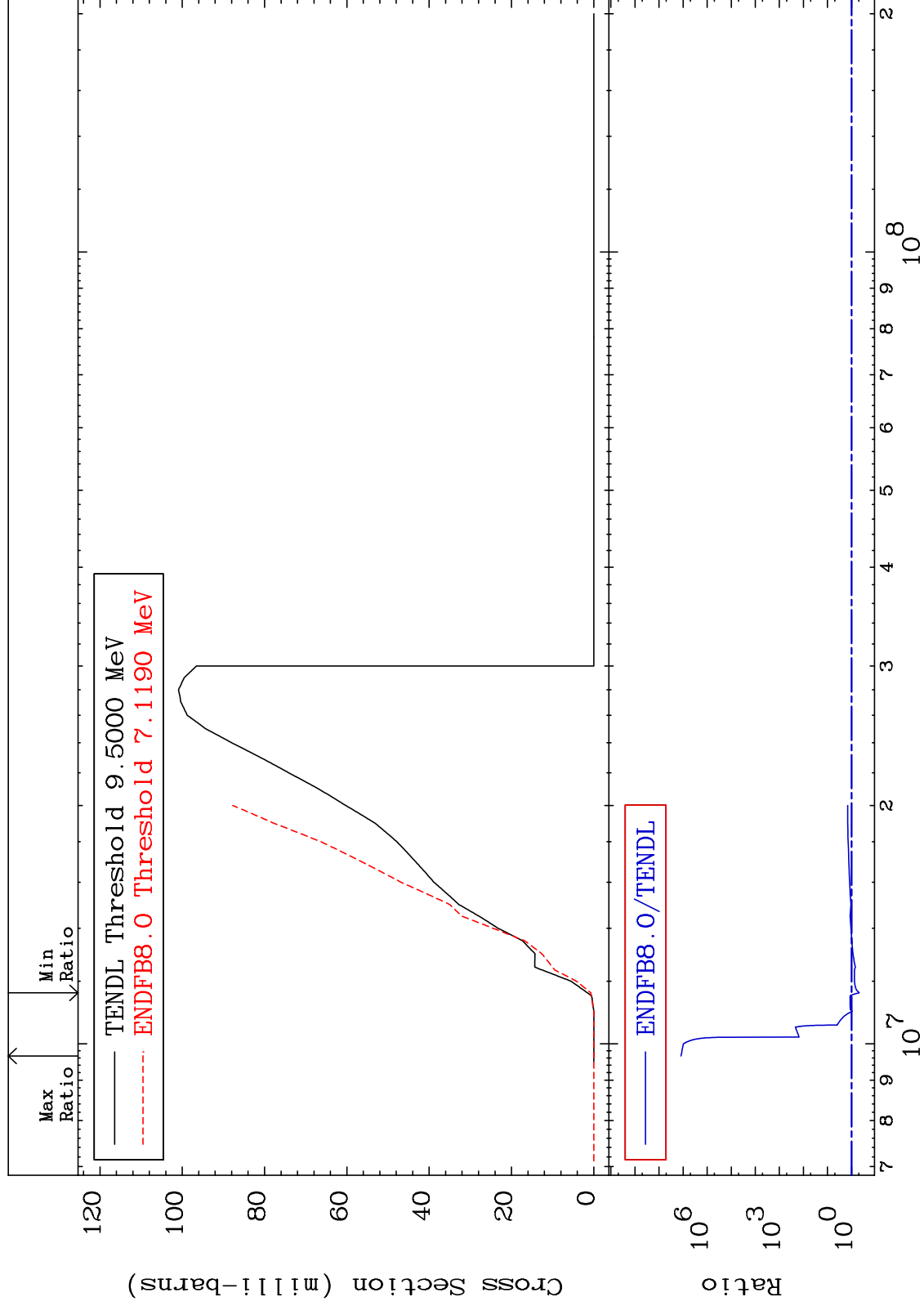


MAT 4025

(n, n') p:39-Y -89m1

40-Zr-90

Radionuclide Production Cross Section -52.20 To 9999. %



43

Incident Energy (eV)

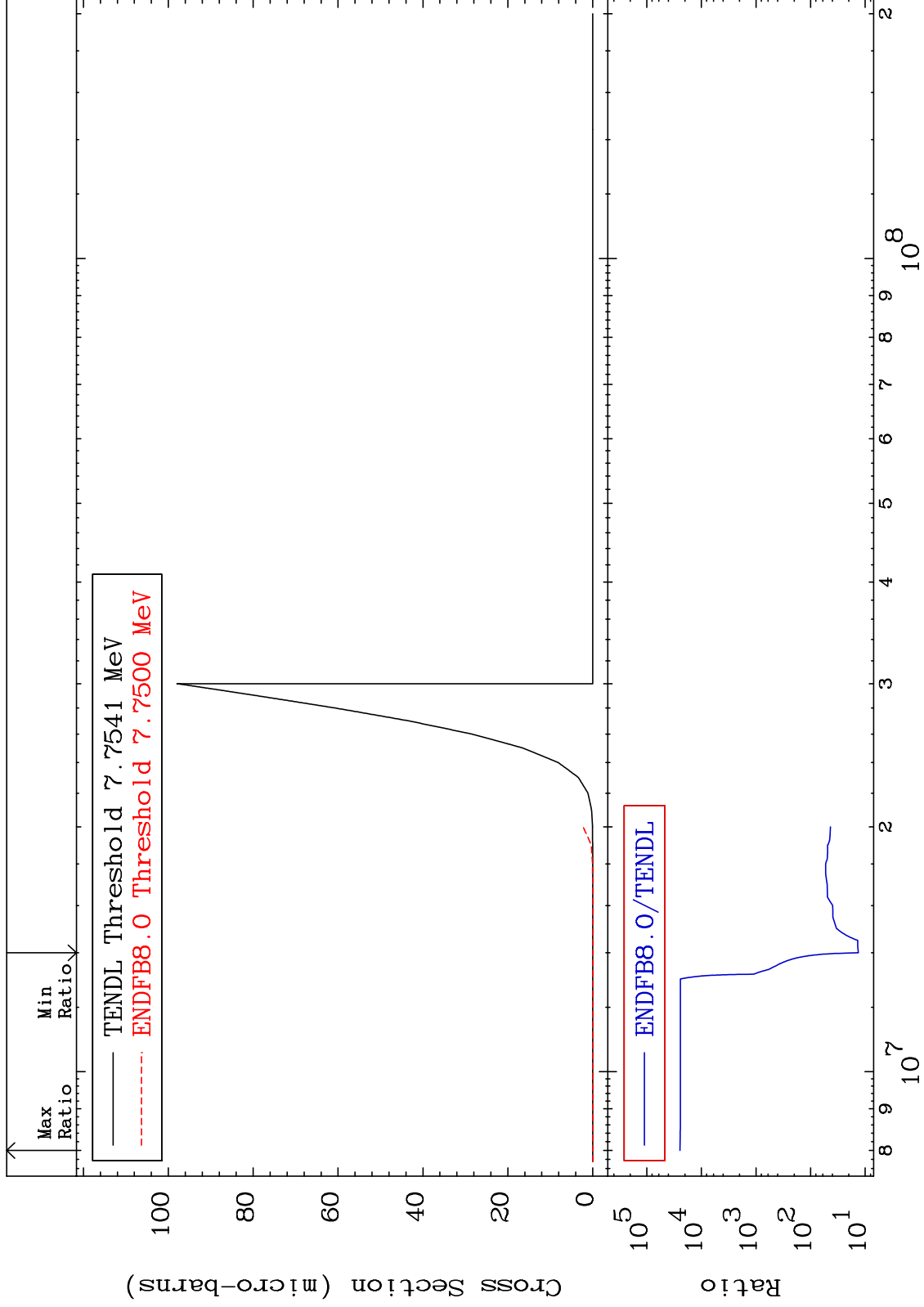
40-Zr-90

MAT 4025

(n, p) α :37-Rb-86g

40-Zr-90

Radionuclide Production Cross Section 1232. To 9999. %

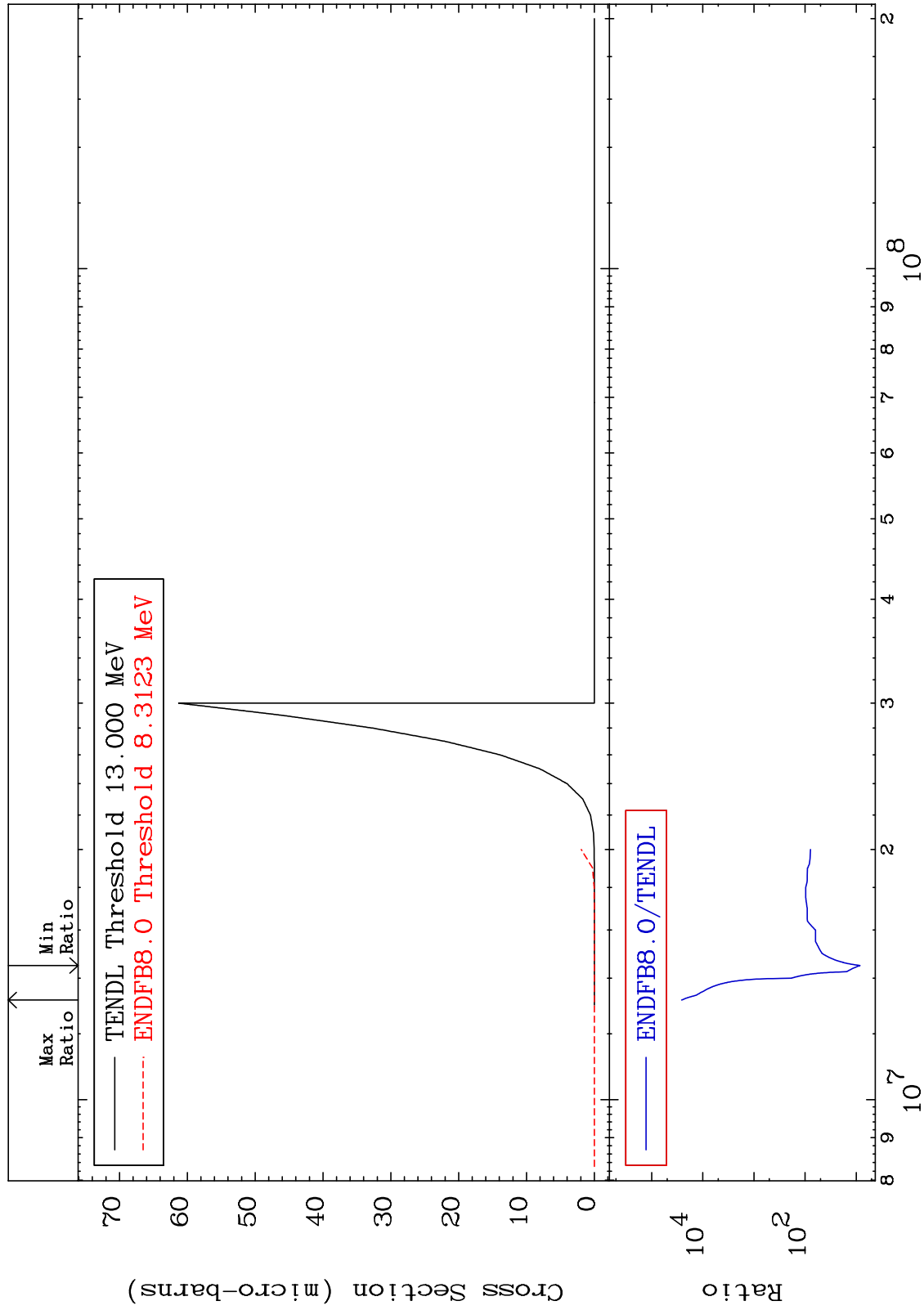


MAT 4025

(n, p) α : 37-Rb-86m2

40-Zr-90

Radionuclide Production Cross Section 741.8 To 9999. %



45

Incident Energy (eV)

40-Zr-90