

Program Complot
(Version 2021-1)

by

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Press Mouse Button to Start

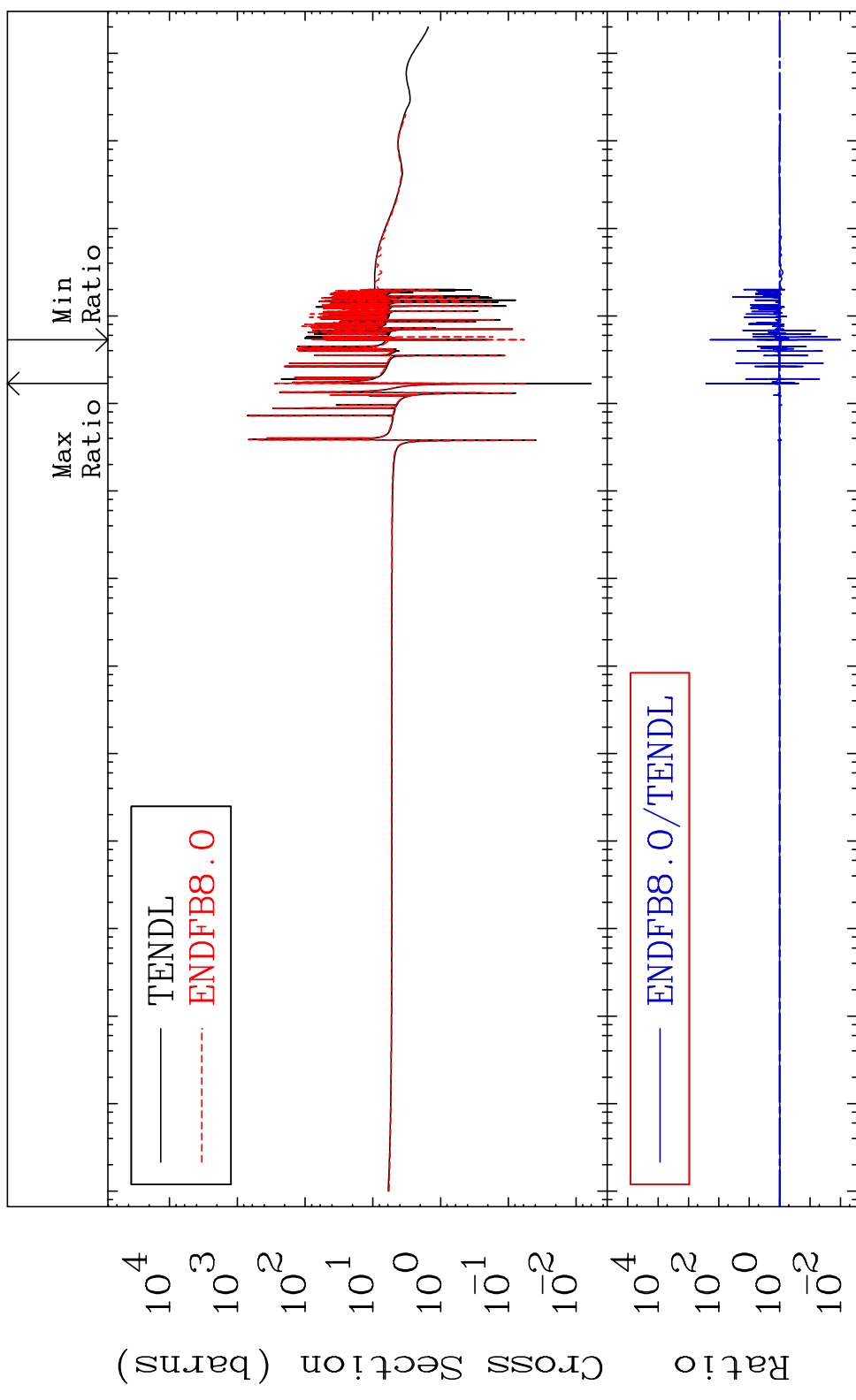
MAT 4025

Total

40-Zr-90

Cross Section

-98.99 To 9999. %

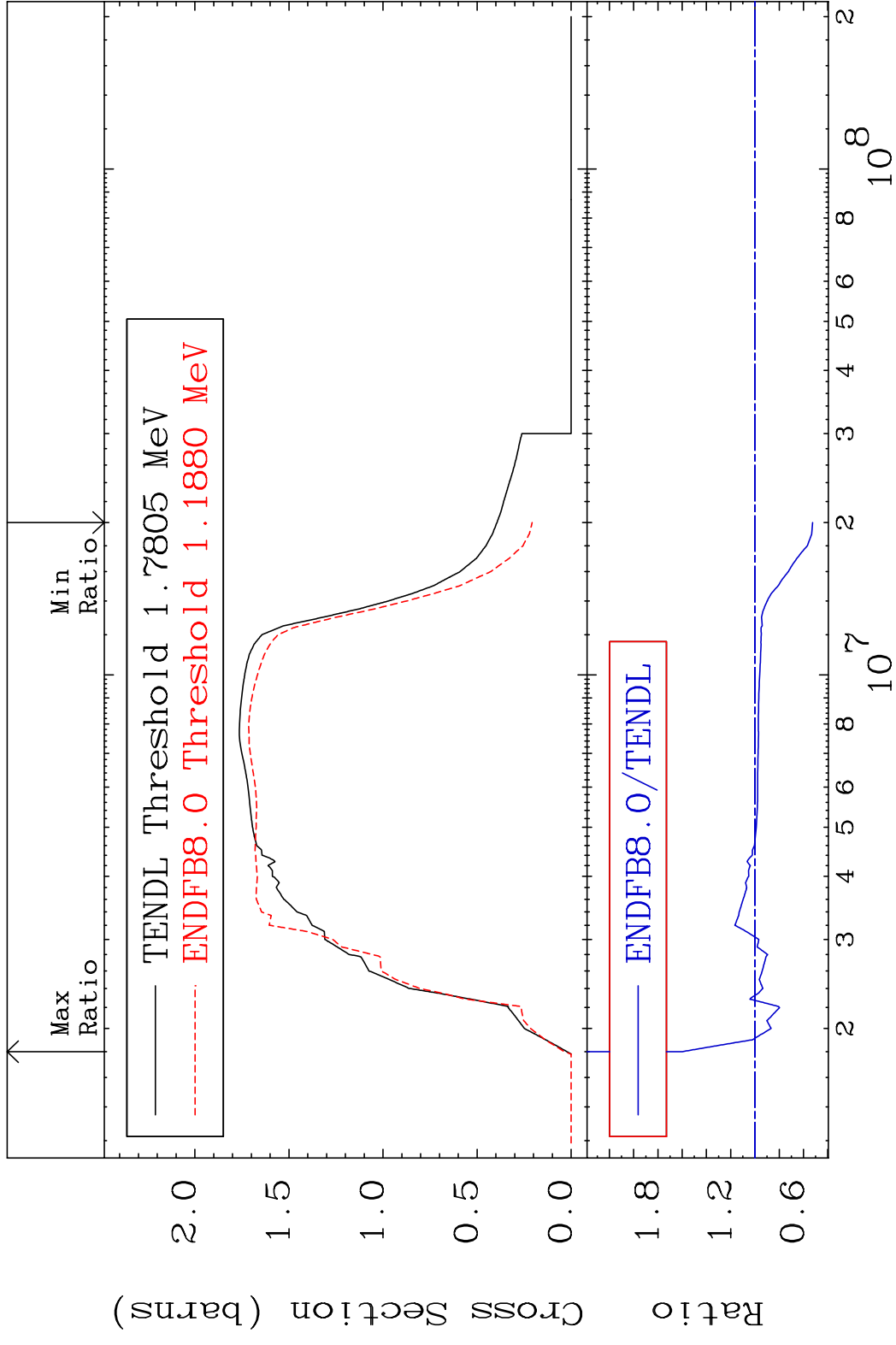


1

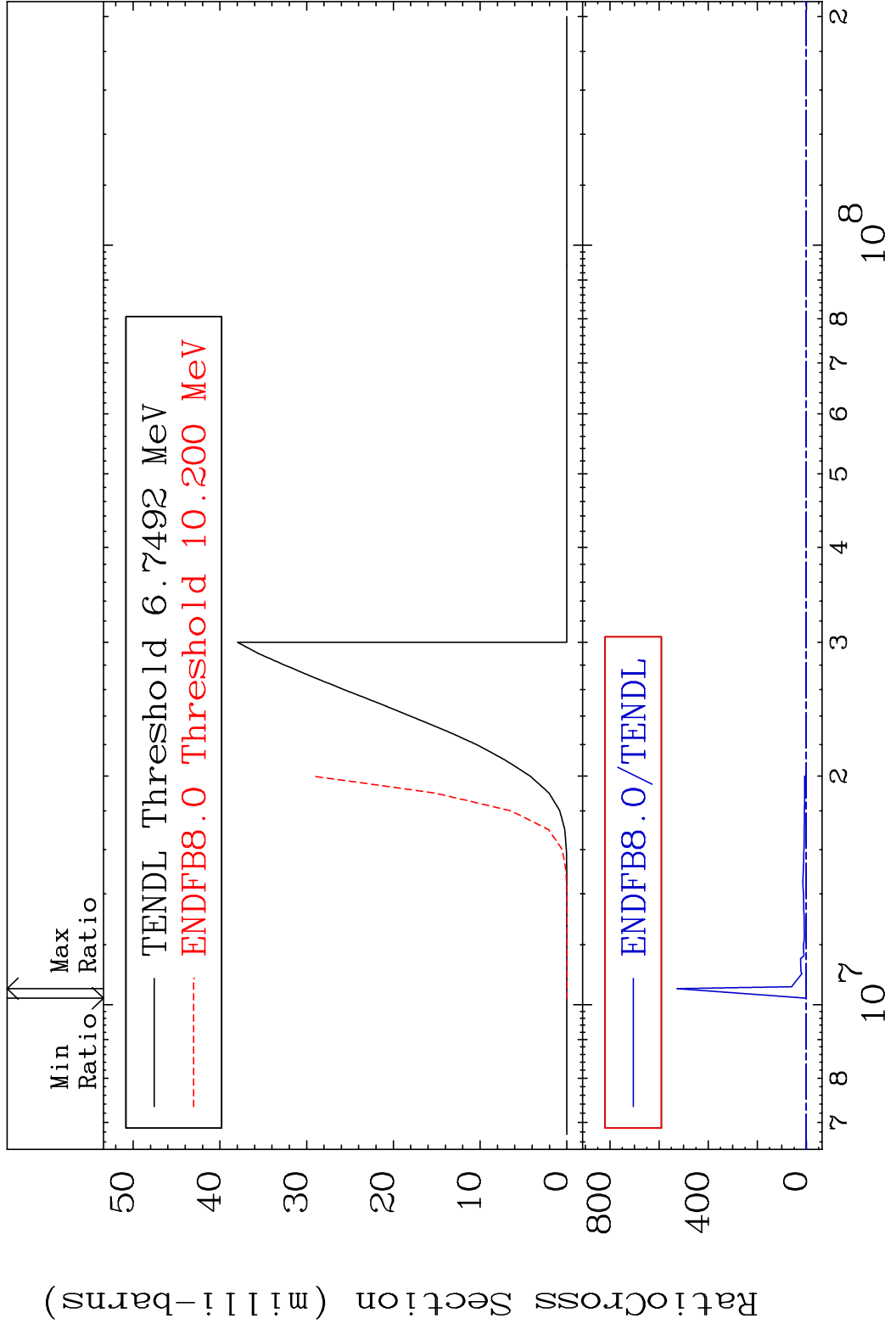
Incident Energy (eV)

40-Zr-90

MAT 4025 Inelastic 40-Zr-90
 Cross Section -47.51 To 59.87 %



MAT 4025 (n, n') α 40-Zr-90
 Cross Section -100.0 To 9999. %



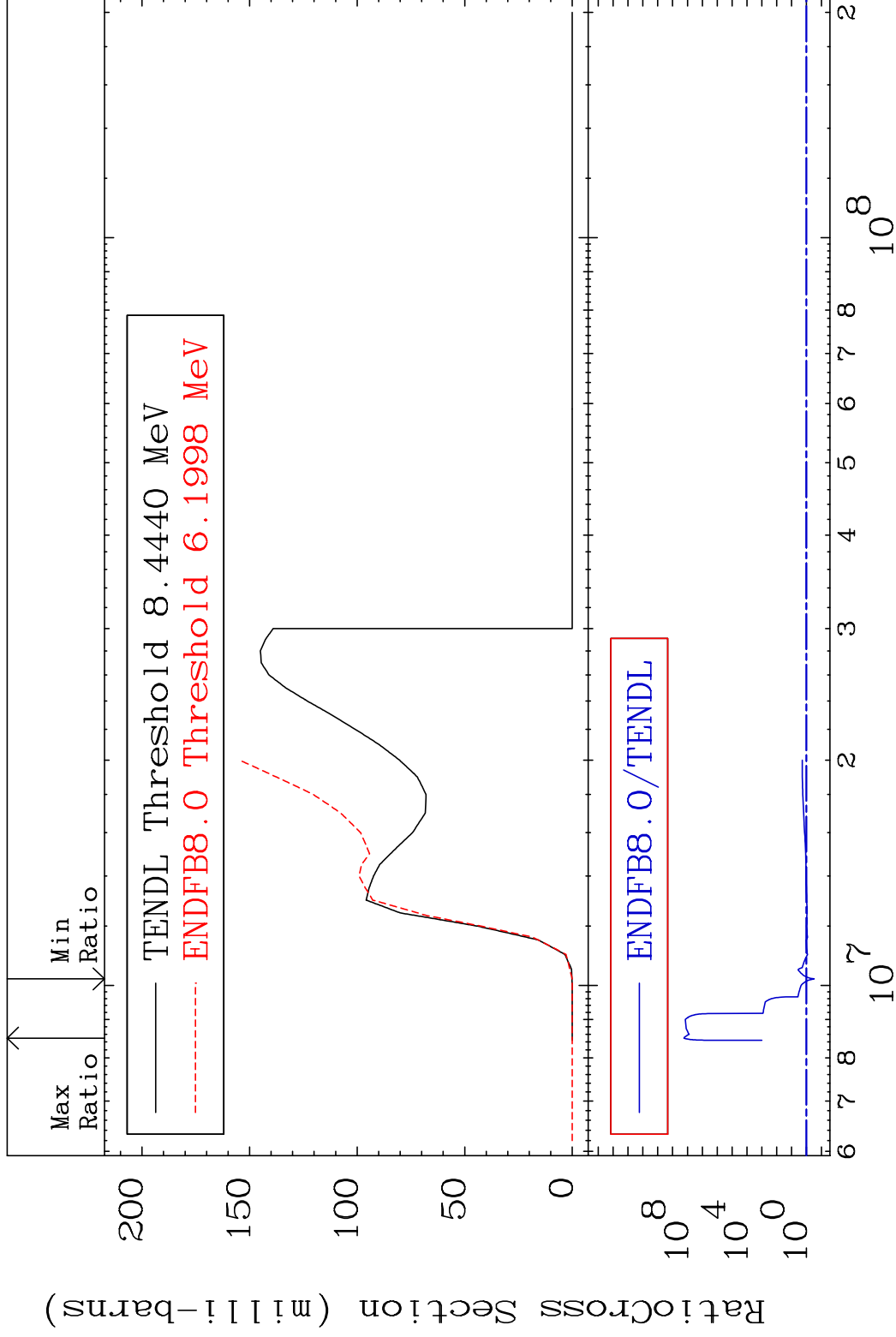
5 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2

MAT 4025

(n, n') p

40-Zr-90

Cross Section -69.22 To 9999. %

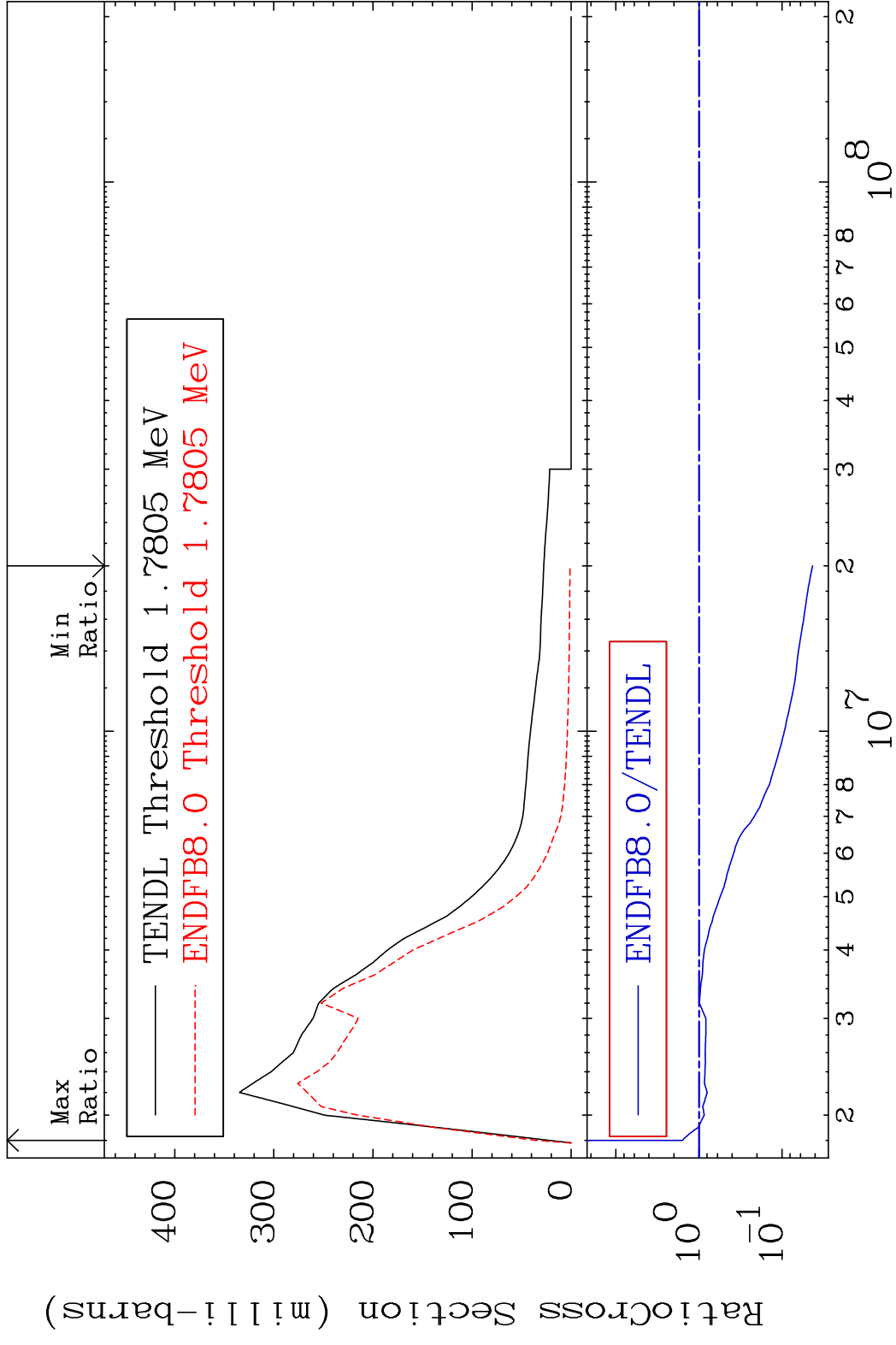


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Incident Energy (eV)

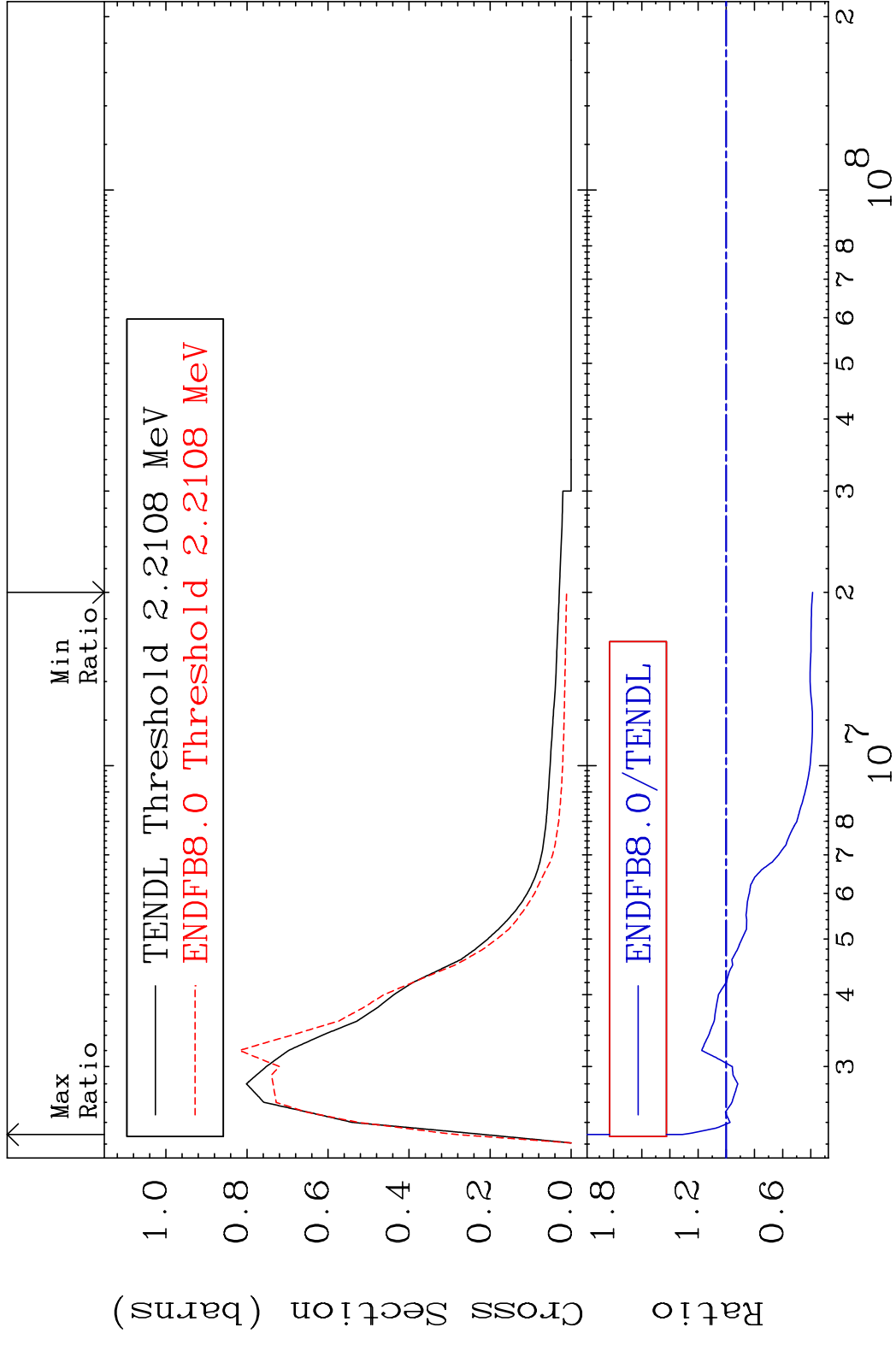
40-Zr-90

MAT 4025 MT= 51 (n, n') Level 40-Zr-90
 Cross Section -95.71 To 58.52 %



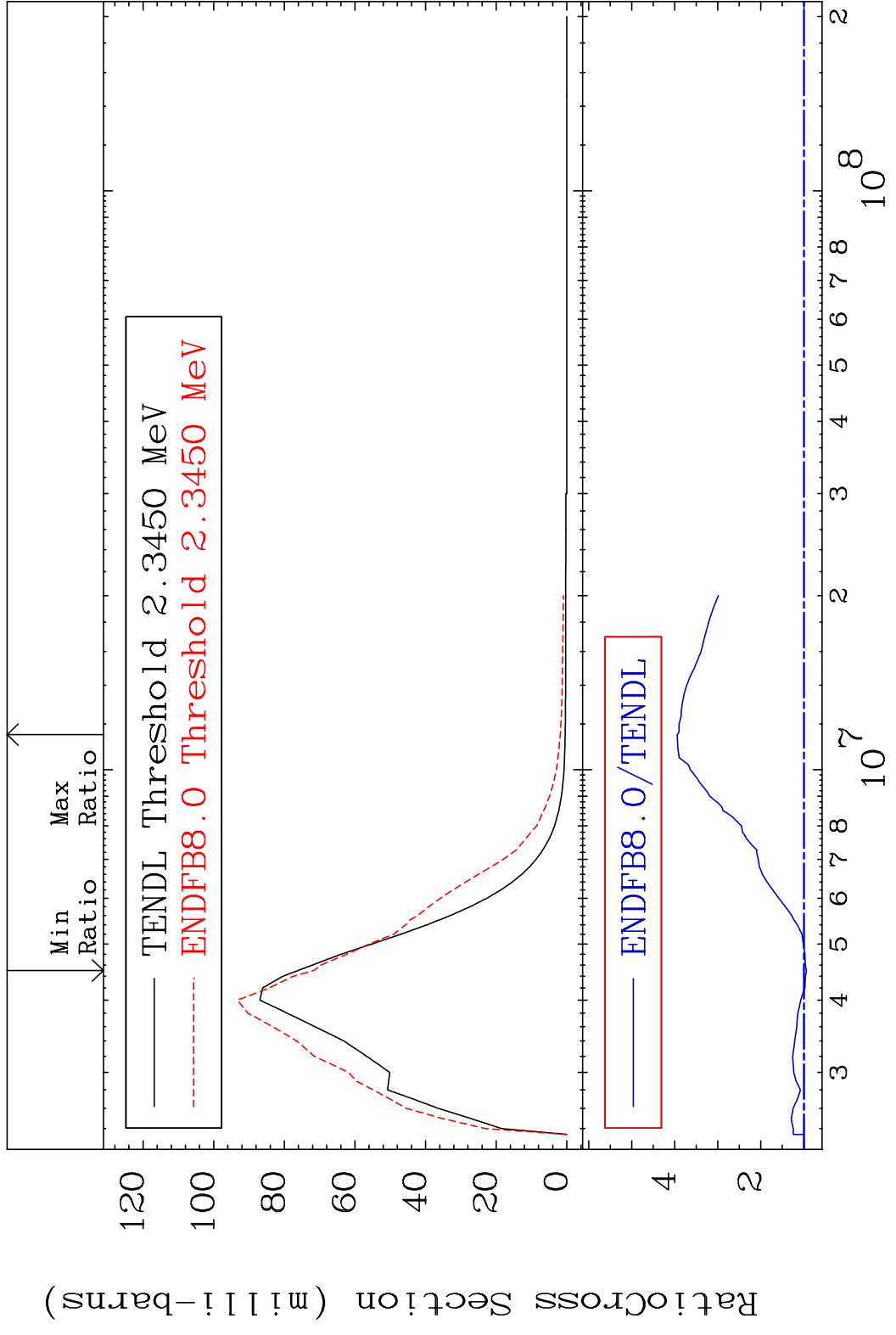
7 Incident Energy (eV) 40-Zr-90

MAT 4025 MT= 52 (n, n') Level 40-Zr-90
 Cross Section -61.23 To 31.15 %

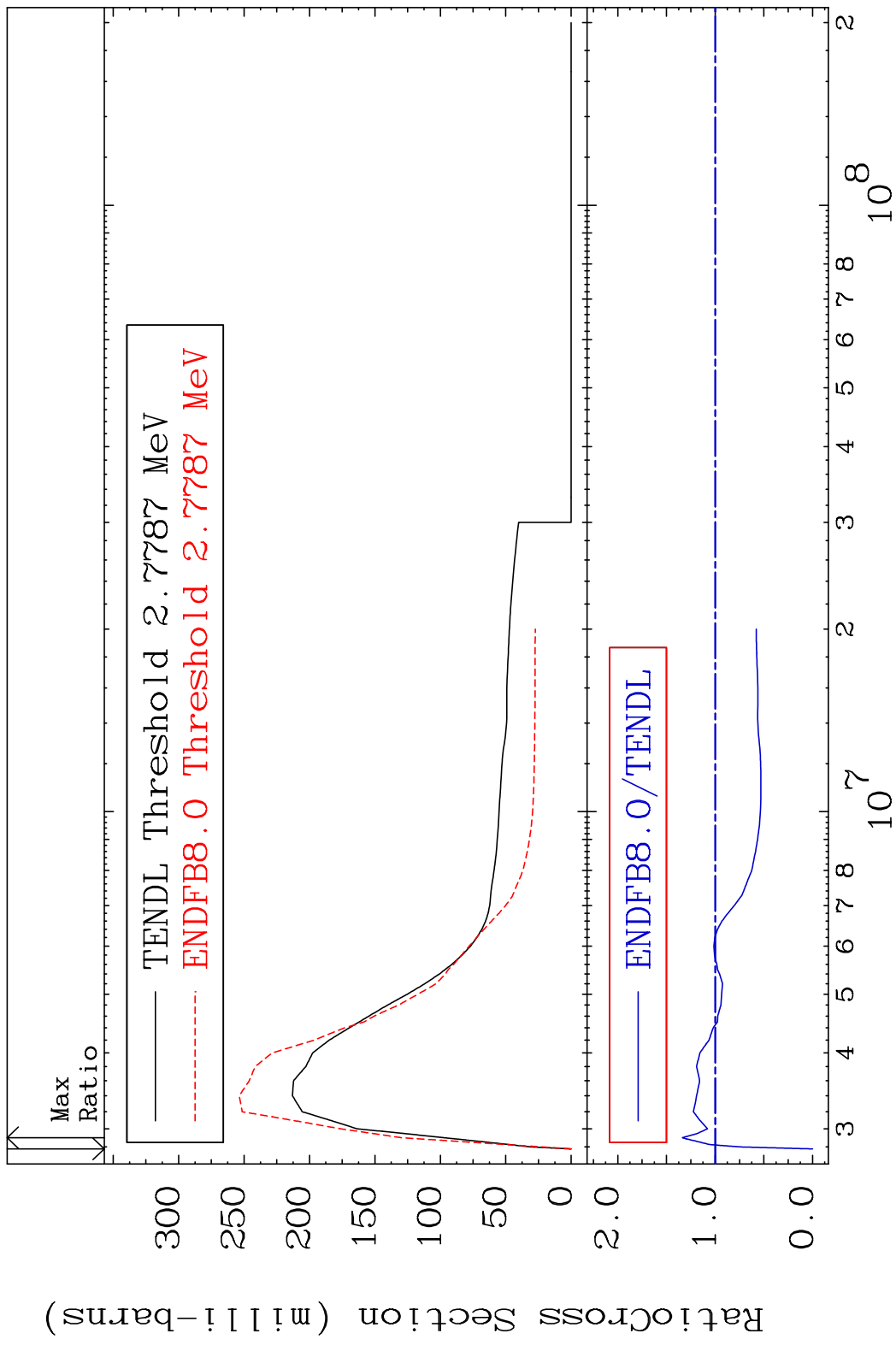


8 Incident Energy (eV) 40-Zr-90

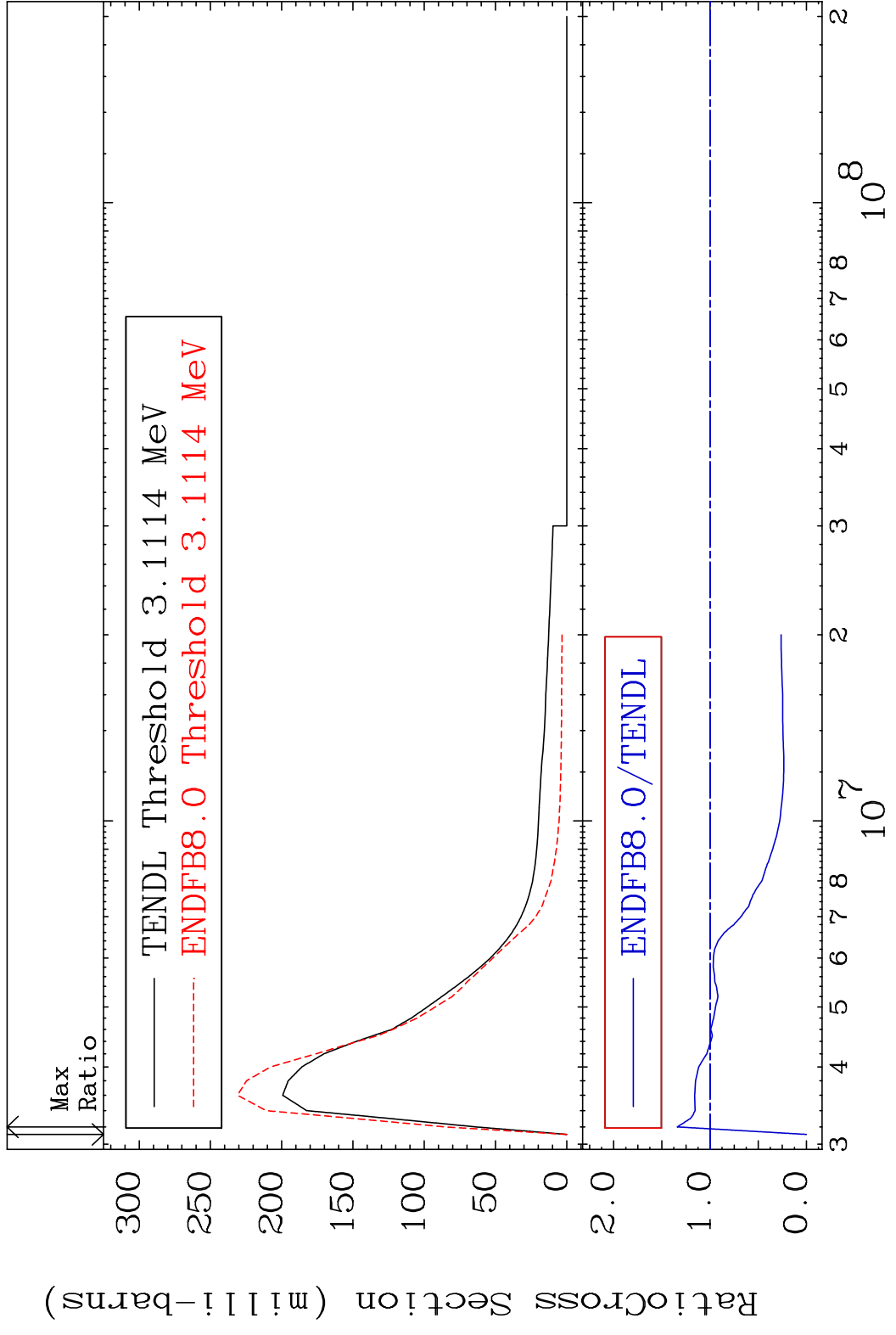
MAT 4025 MT= 53 (n, n') Level 40-Zr-90
 Cross Section -5.913 To 294.4 %



MAT 4025 MT= 55 (n,n') Level 40-Zr-90
 Cross Section -100.0 To 33.70 %

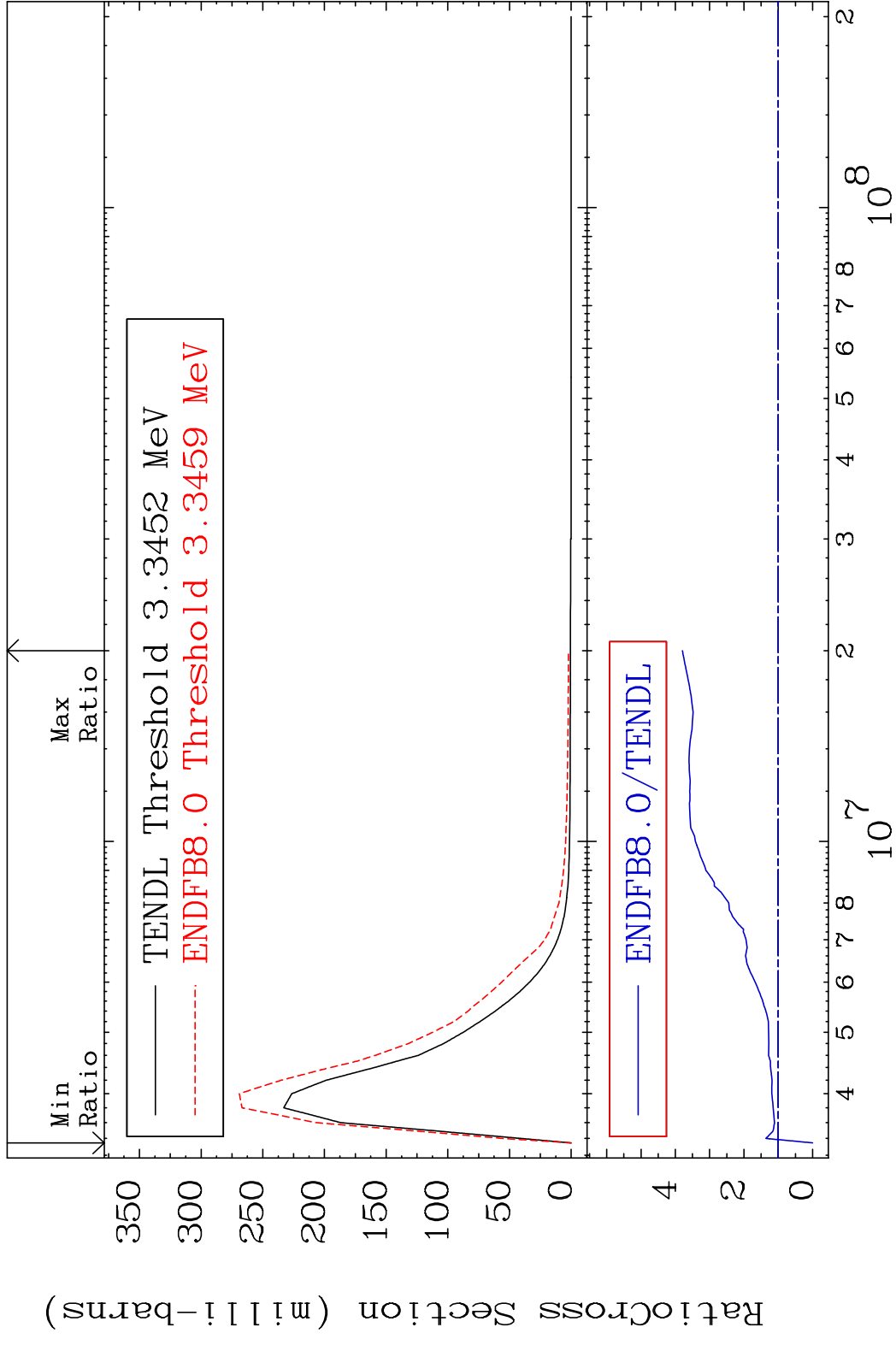


MAT 4025 MT= 56 (n,n') Level 40-Zr-90
 Cross Section -100.0 To 34.12 %

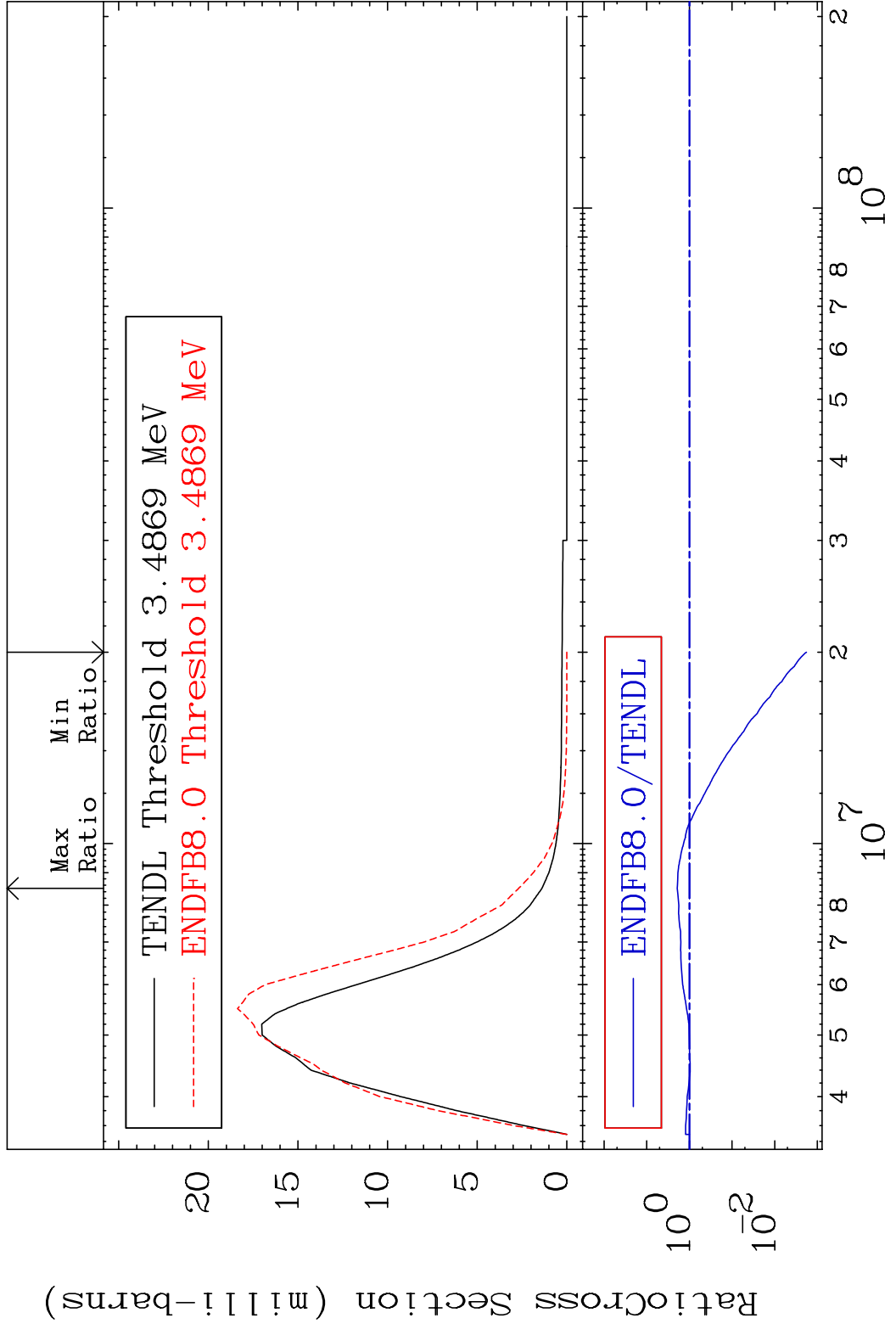


12 Incident Energy (eV) 40-Zr-90

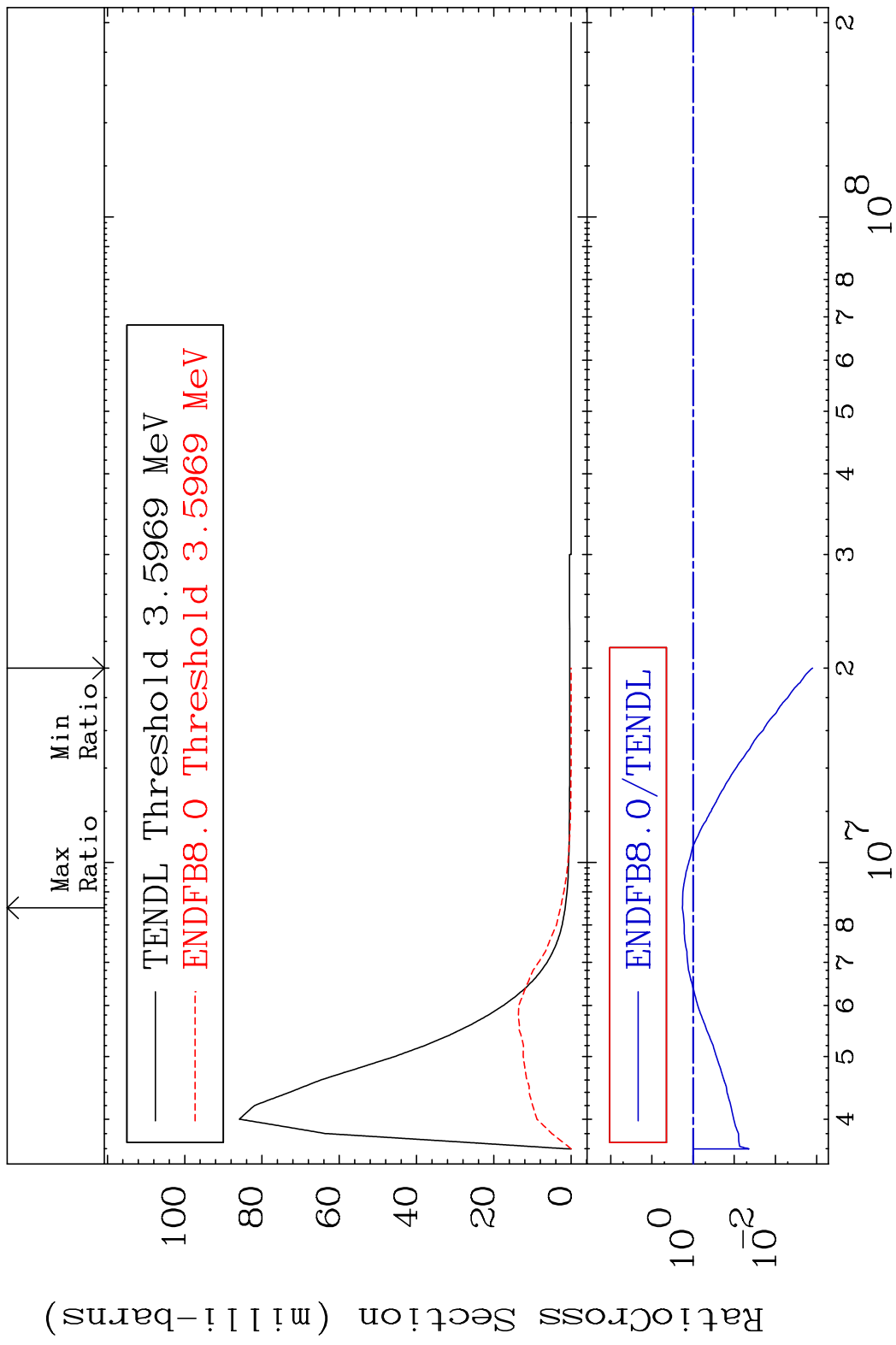
MAT 4025 MT= 57 (n, n') Level 40-Zr-90
 Cross Section -100.0 To 279.5 %



MAT 4025 MT= 58 (n,n') Level 40-Zr-90
 Cross Section -99.82 To 93.44 %



MAT 4025 MT= 59 (n, n') Level 40-Zr-90
 Cross Section -99.87 To 81.94 %

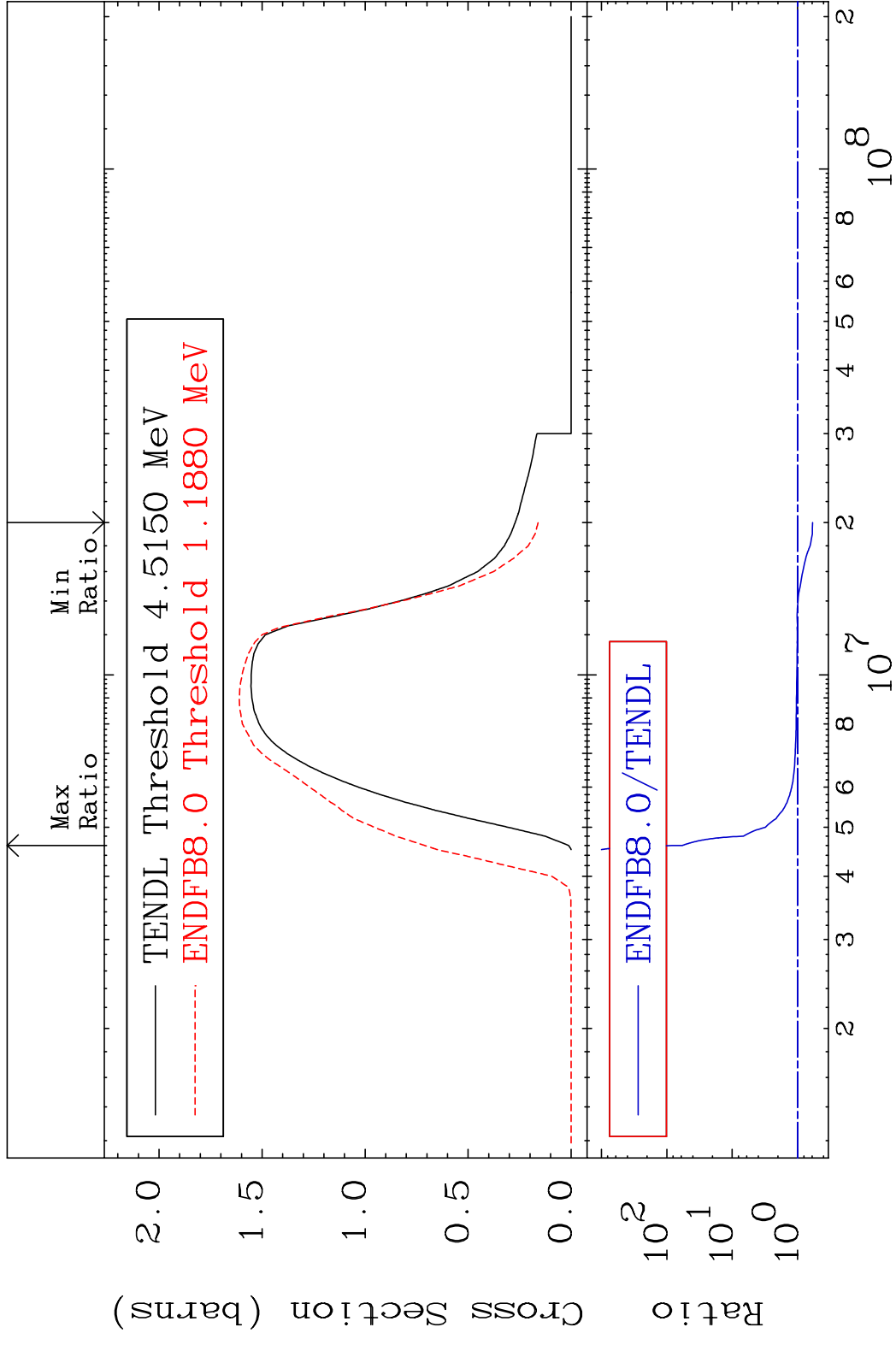


MAT 4025

(n, n') Continuum

40-Zr-90

Cross Section -40.93 To 5678. %

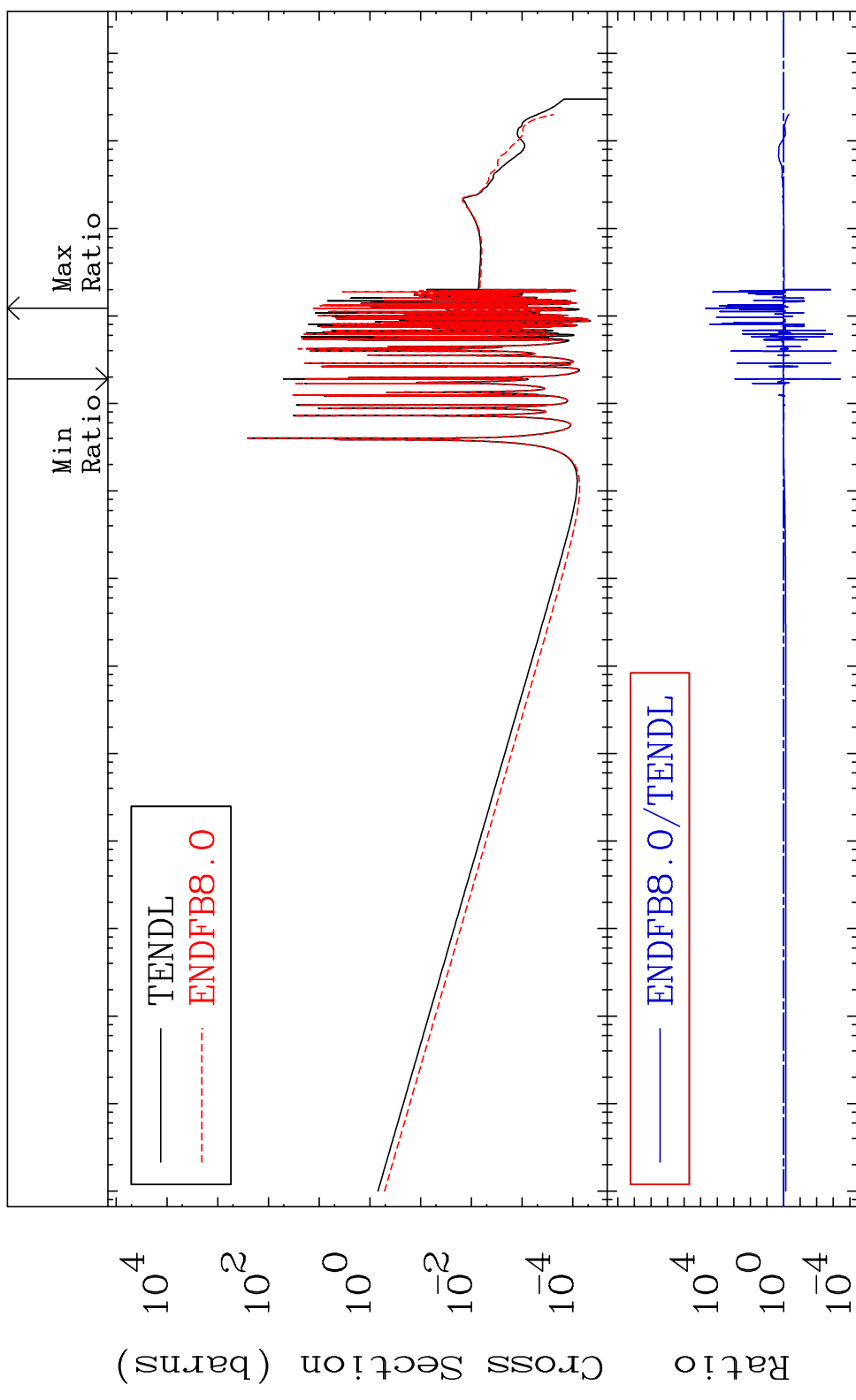


MAT 4025

(n, γ)

40-Zr-90

Cross Section -99.96 To 9999. %

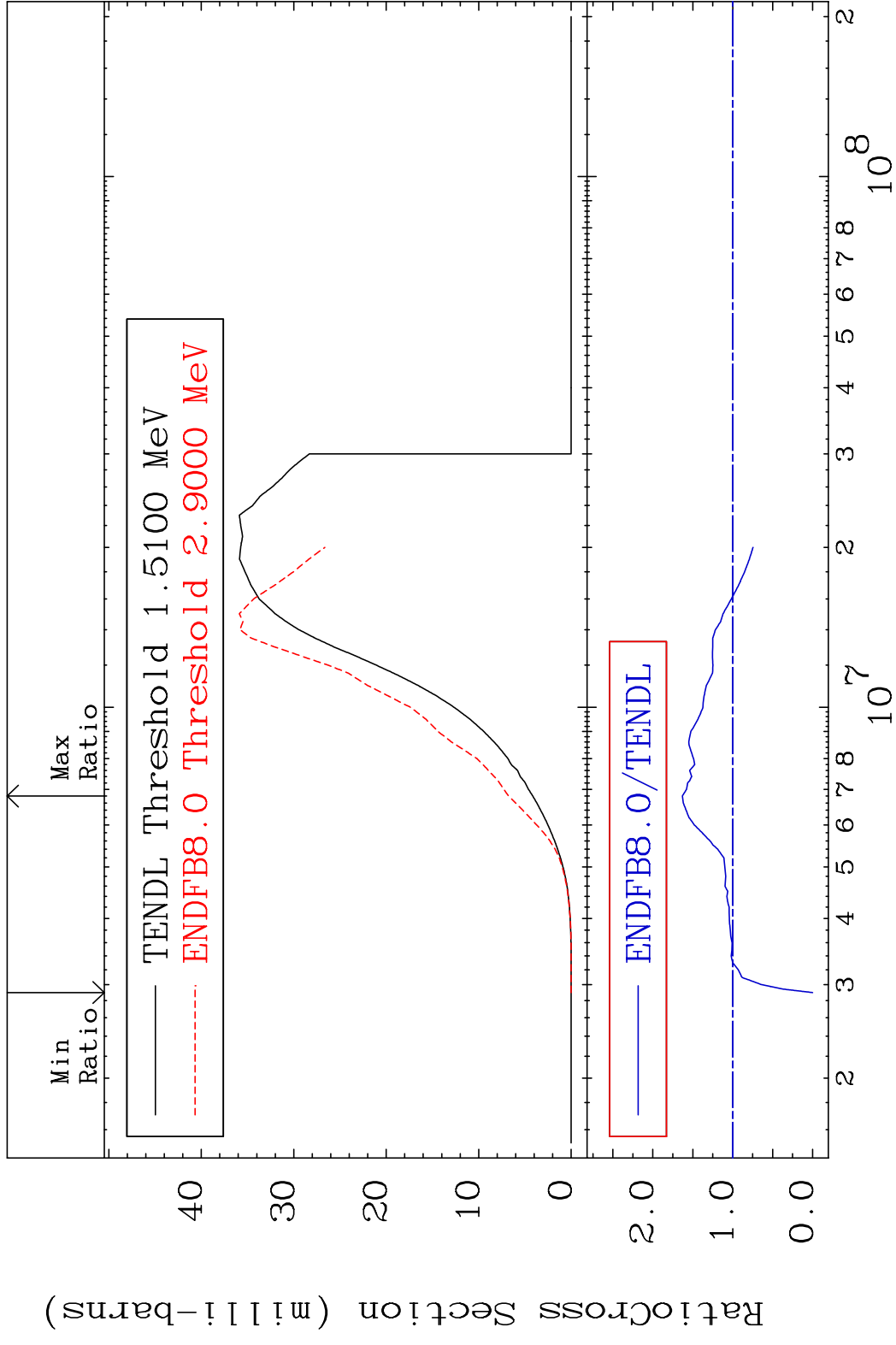


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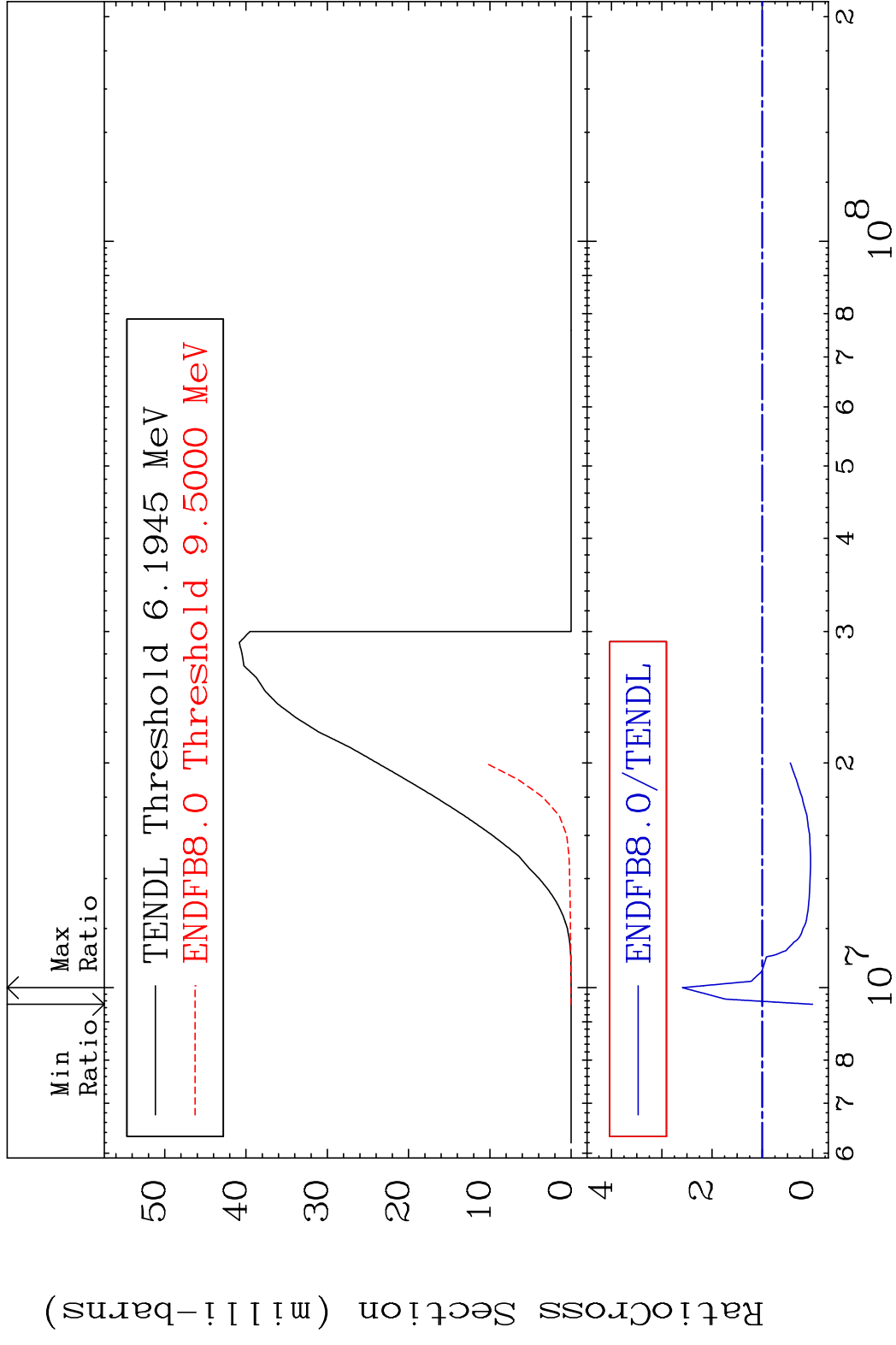
Incident Energy (eV)

40-Zr-90

MAT 4025 (n,p) 40-Zr-90
 Cross Section -100.0 To 63.05 %



MAT 4025 (n,d) 40-Zr-90
 Cross Section -100.0 To 159.1 %



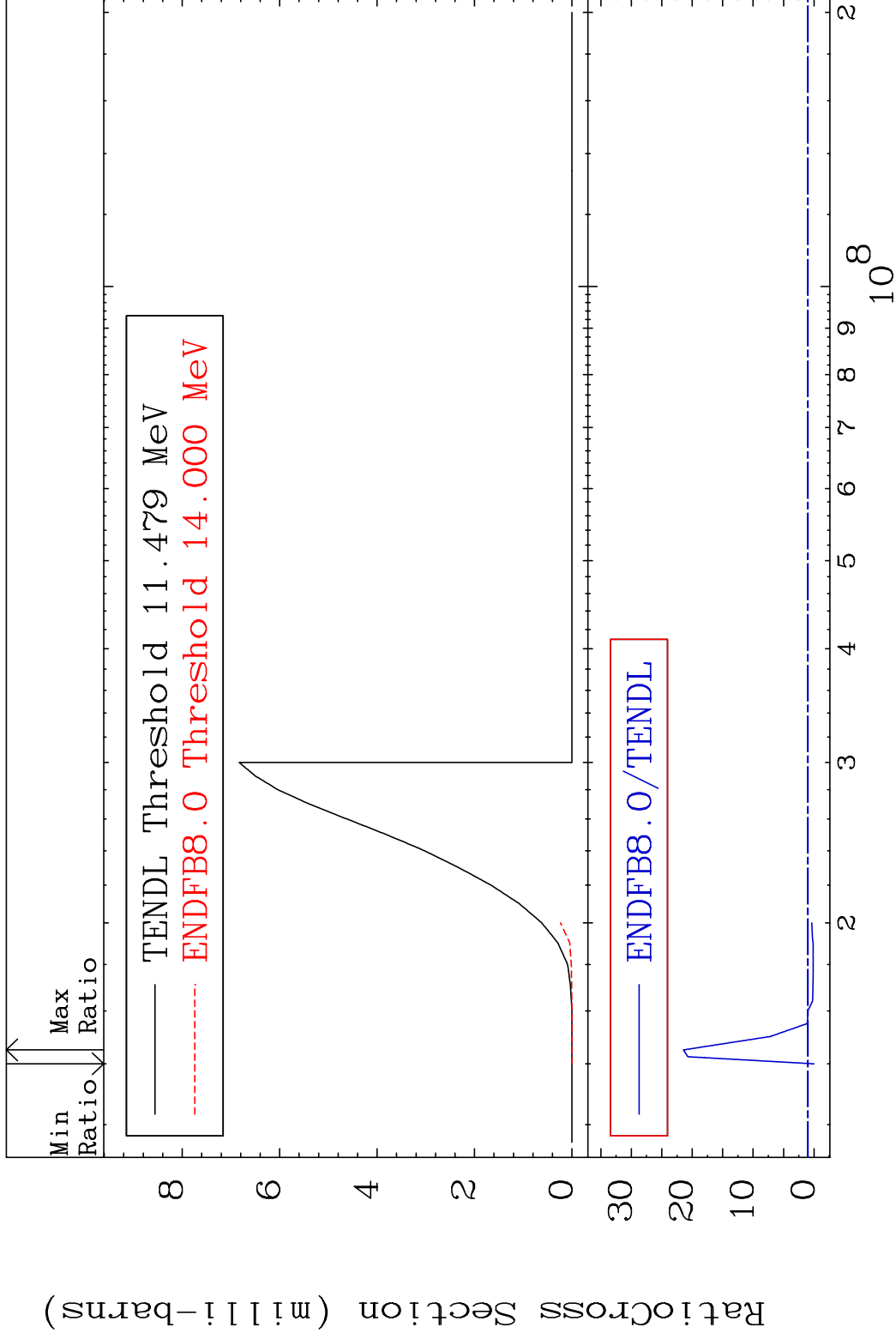
19 Incident Energy (eV) 40-Zr-90

MAT 4025

(n, t)

40-Zr-90

Cross Section -100.0 To 2044. %

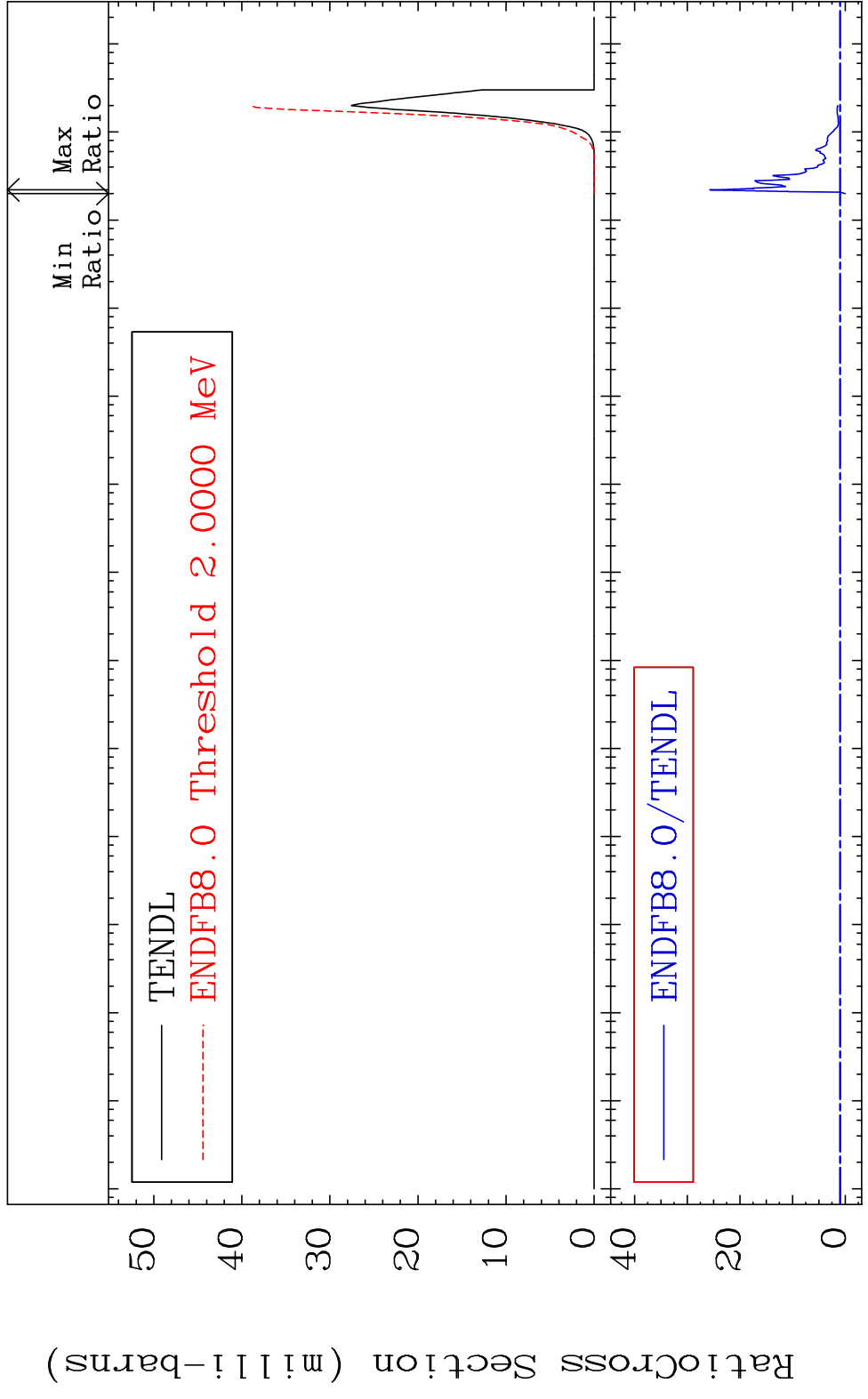


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Incident Energy (eV)

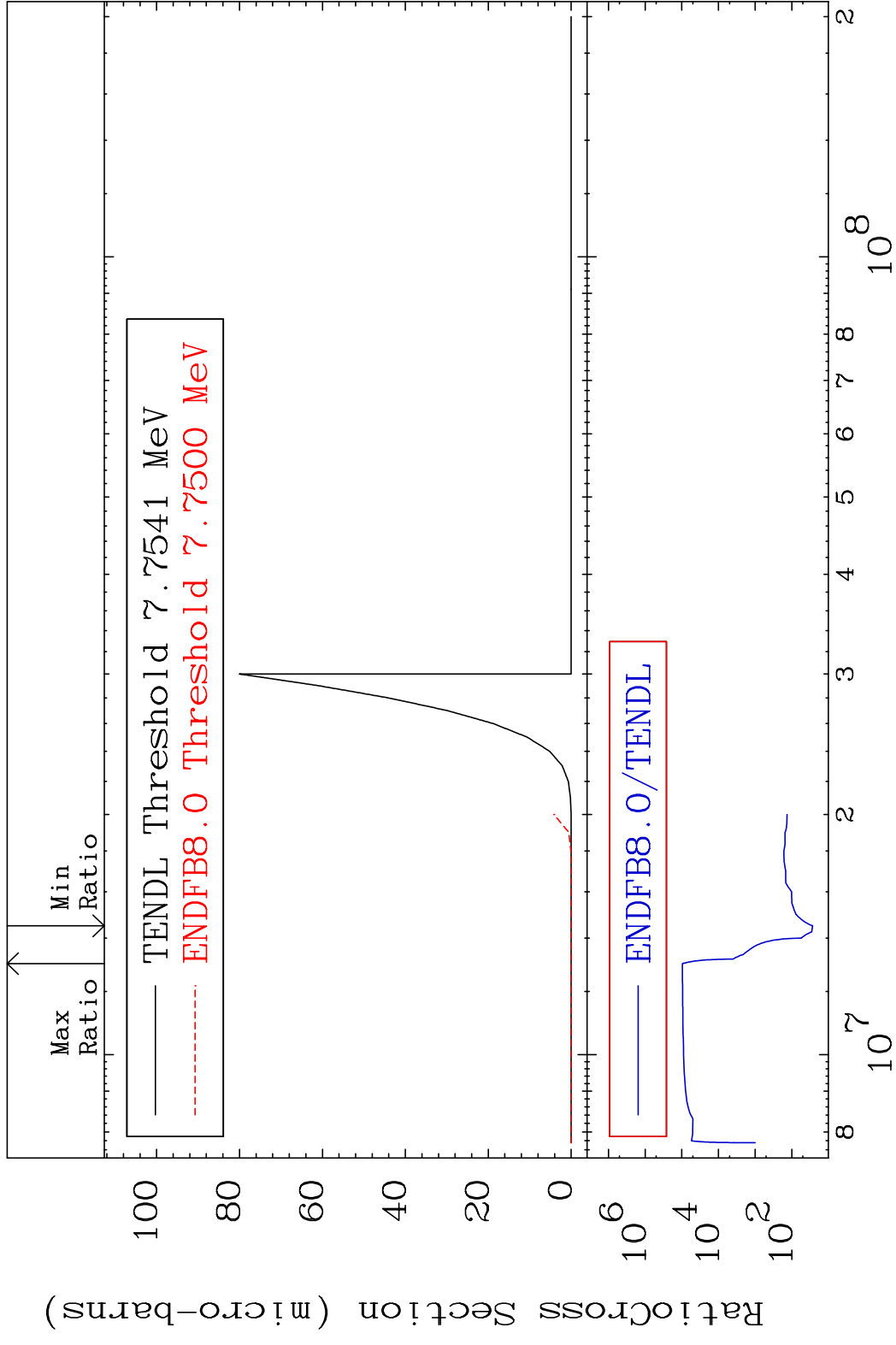
40-Zr-90

MAT 4025 (n, α) 40-Zr-90
 Cross Section -100.0 To 2471. %

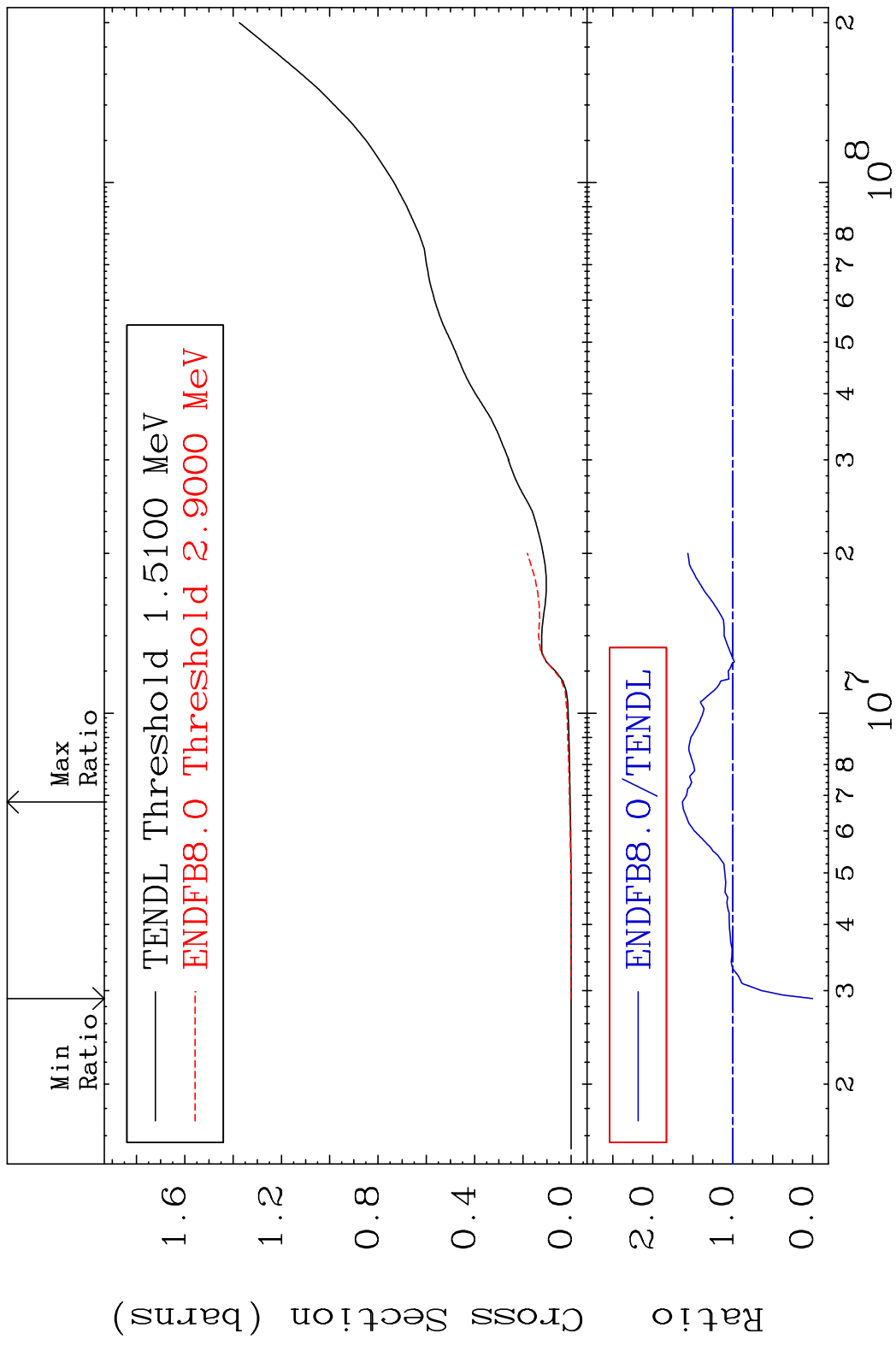


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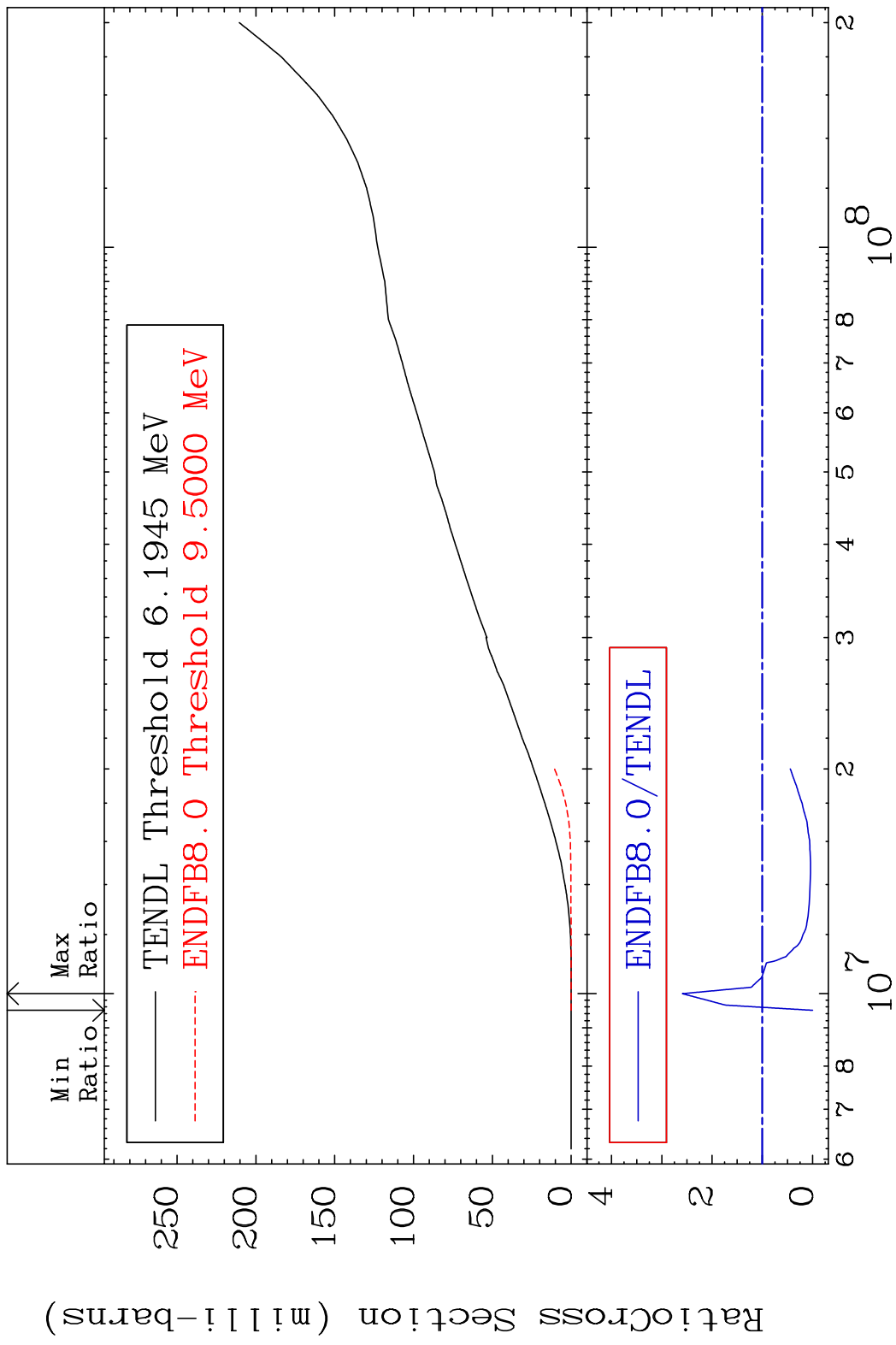
MAT 4025 (n,p) α 40-Zr-90
 Cross Section 2621. To 9999. %



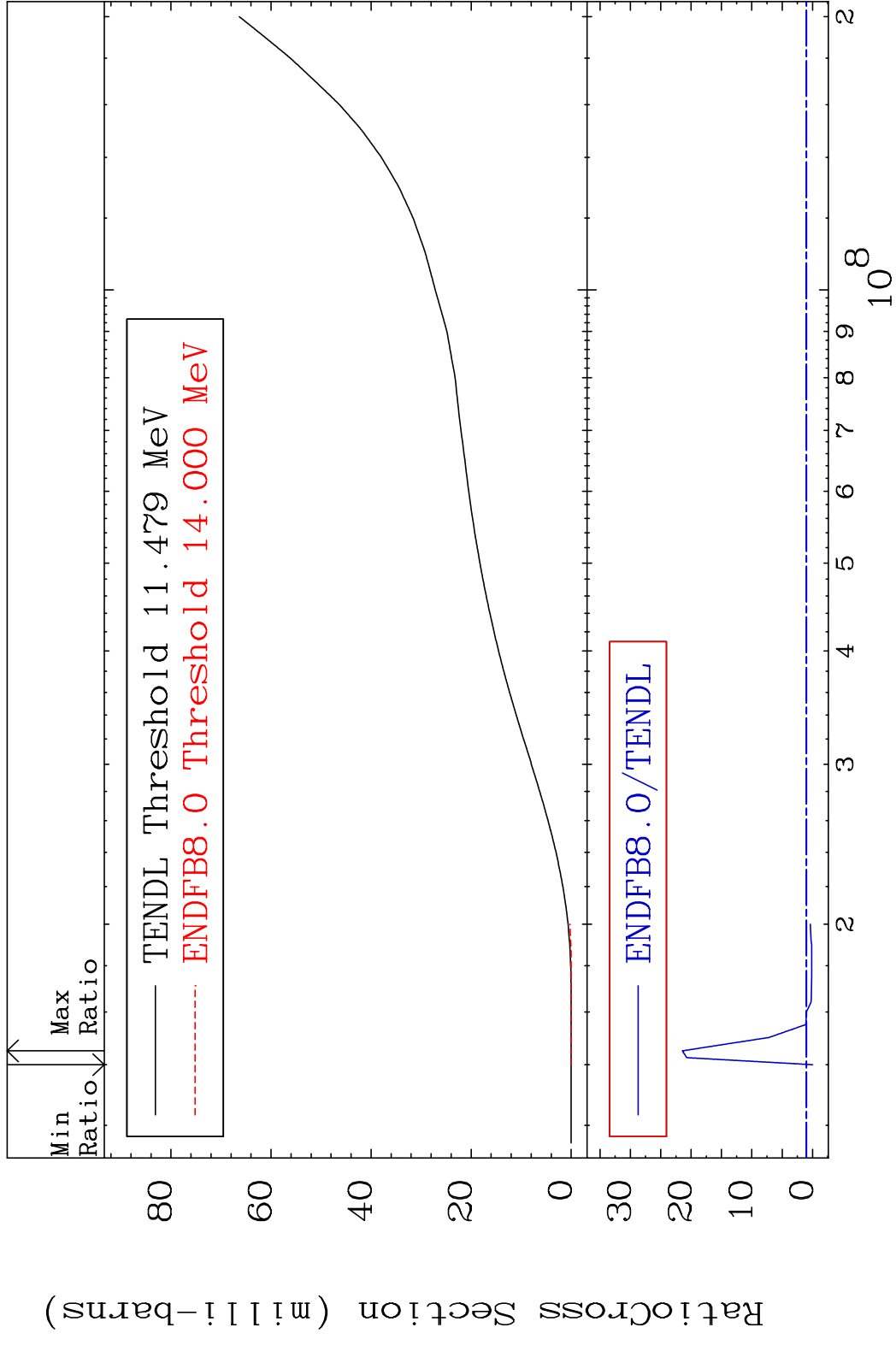
MAT 4025 Hydrogen Production 40-Zr-90
 Cross Section -100.0 To 63.05 %



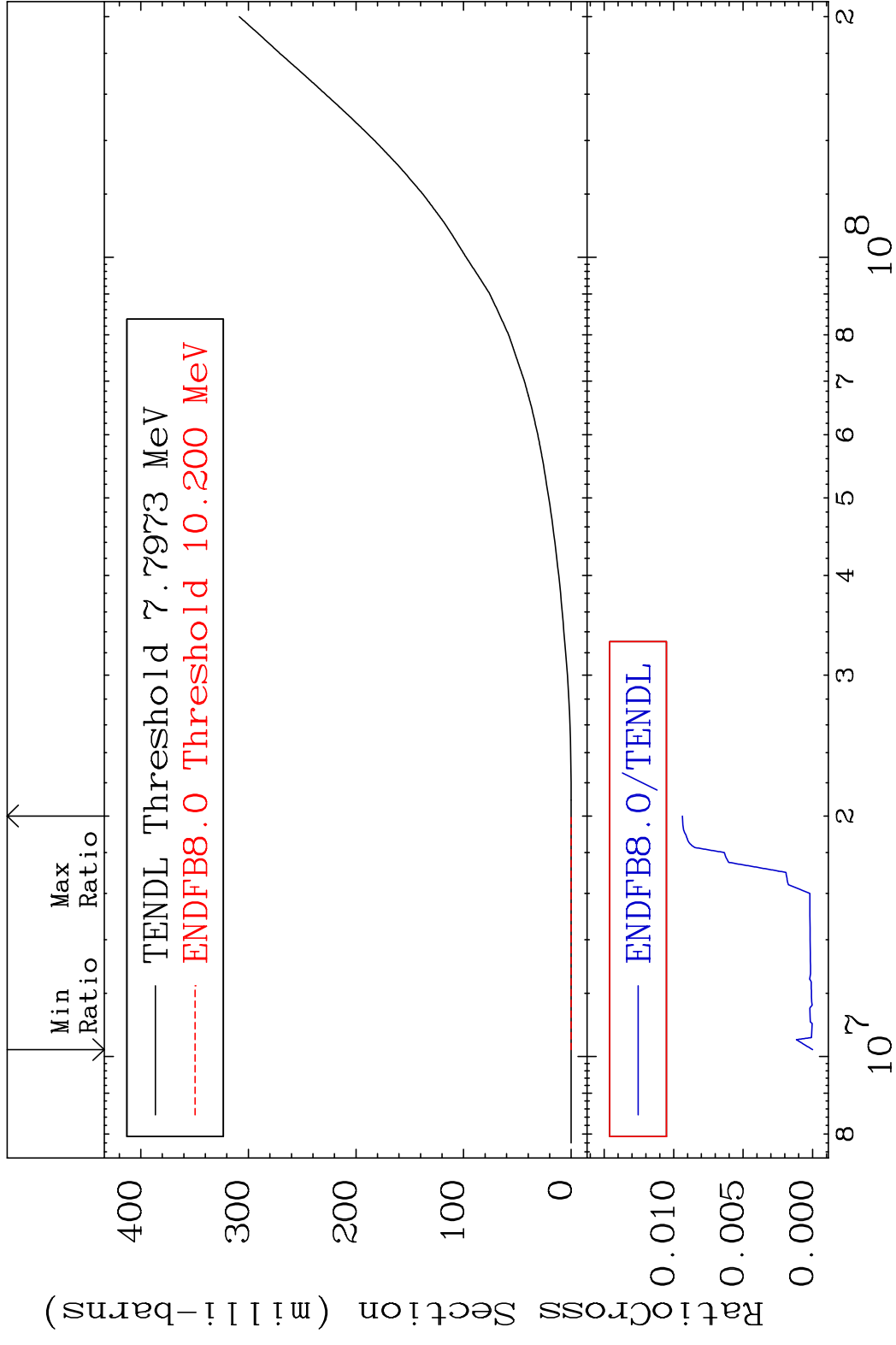
MAT 4025 Deuterium Production 40-Zr-90
 Cross Section -100.0 To 159.1 %



24 40-Zr-90



MAT 4025 He-3 Production 40-Zr-90
 Cross Section -100.0 To -99.06%



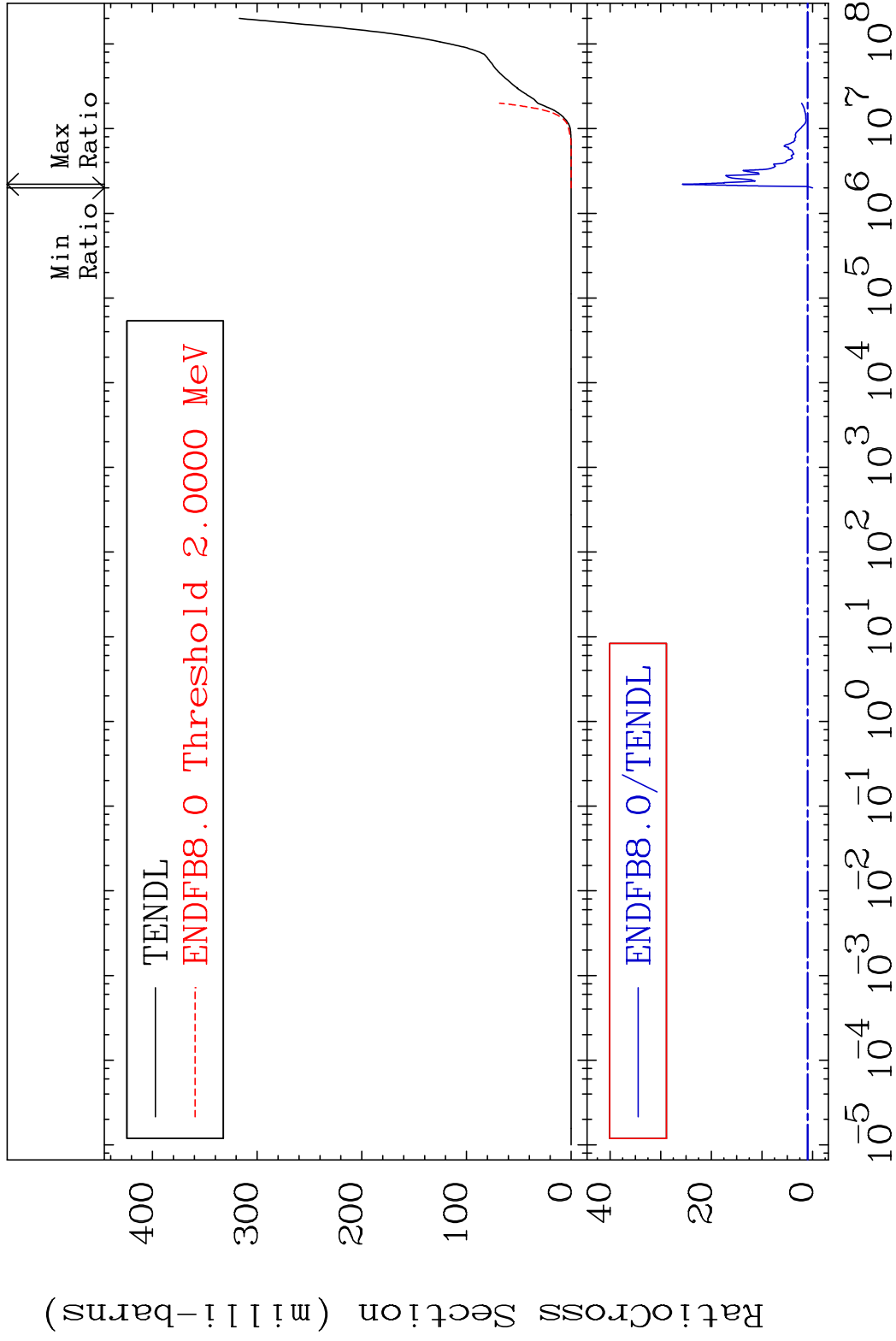
26 Incident Energy (eV) 40-Zr-90

MAT 4025

He-4 Production

40-Zr-90

Cross Section -100.0 To 2471. %

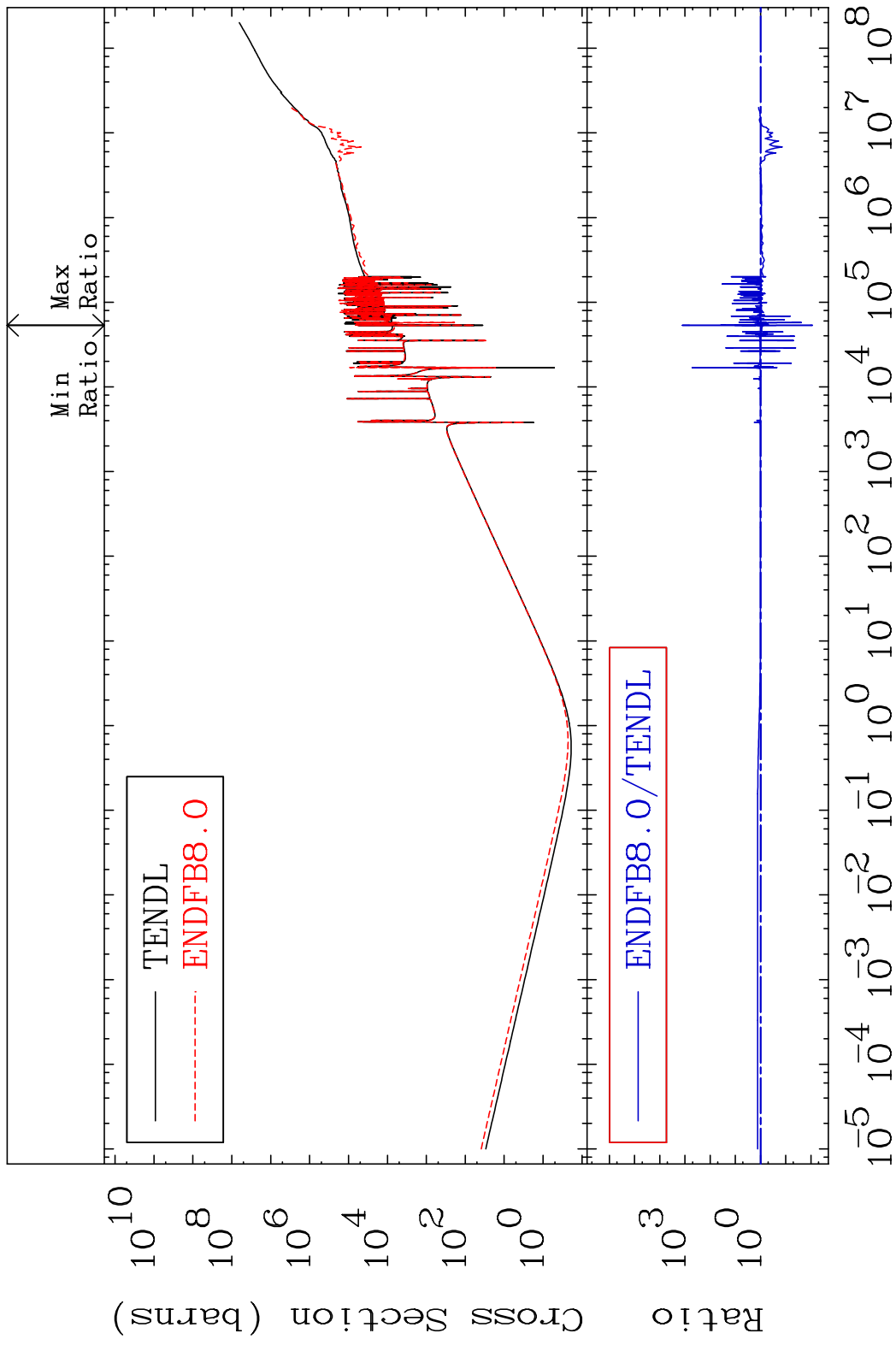


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Incident Energy (eV)

40-Zr-90

MAT 4025 Kerma total (eV-barns) 40-Zr-90
 Cross Section -99.14 To 9999. %

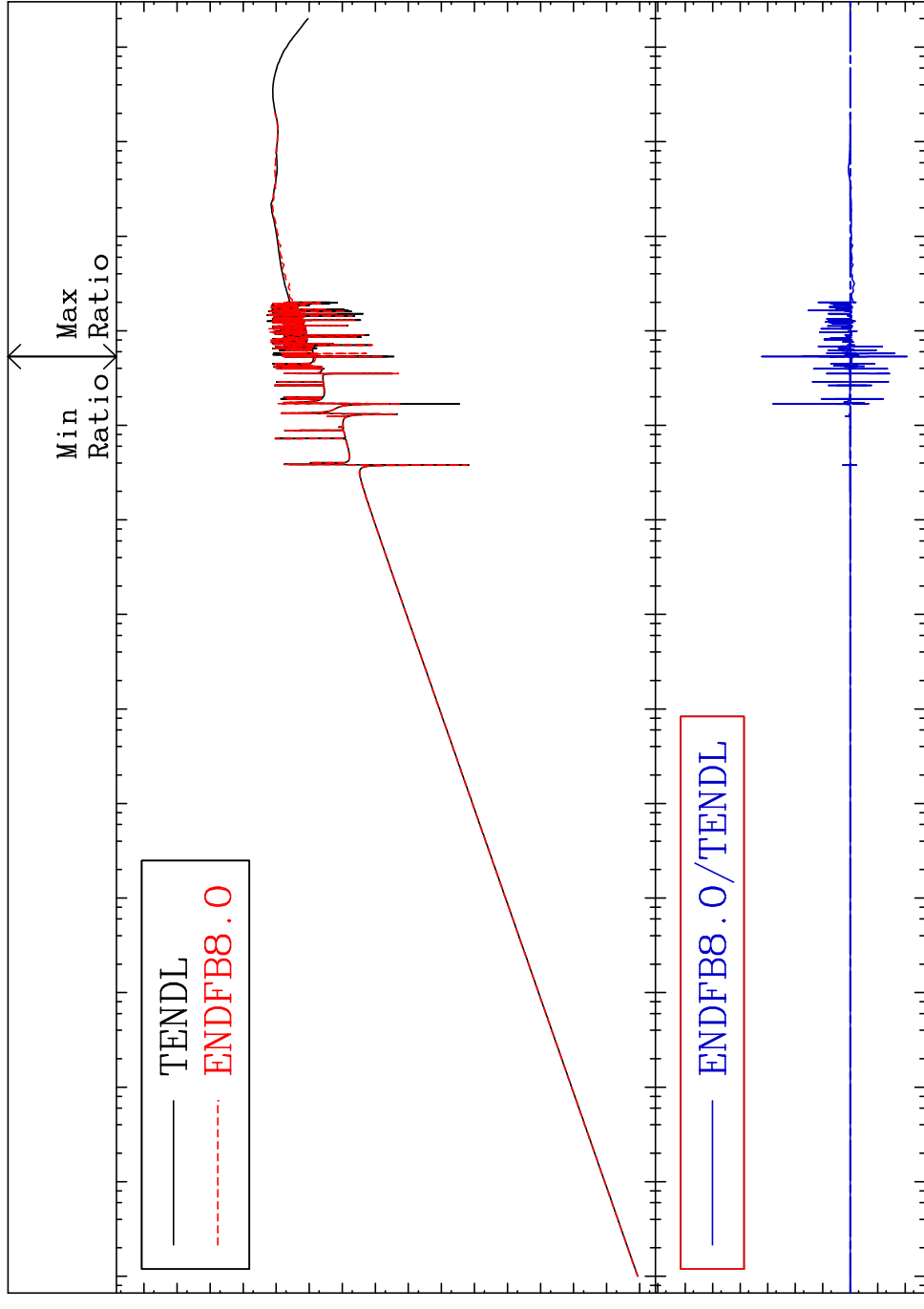


28 Incident Energy (eV) 40-Zr-90

MAT 4025

Kerma elastic
Cross Section

40-Zr-90
-99.14 To 9999. %

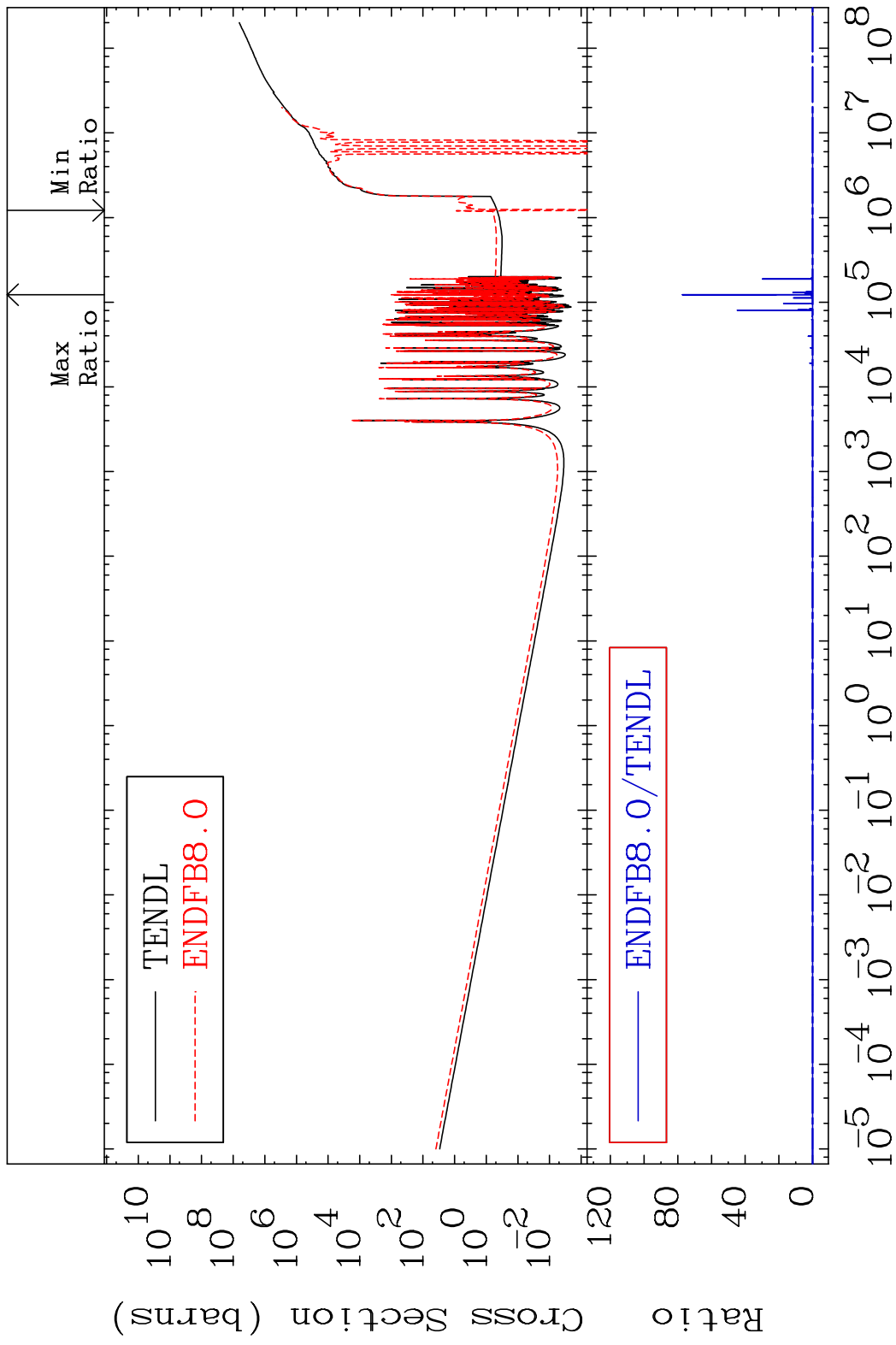


10^8
 10^6
 10^4
 10^2
 10^0
 10^{-2}
 10^{-4}
 10^{-6}
Cross Section (barns)

Ratio
 10^3
 10^0

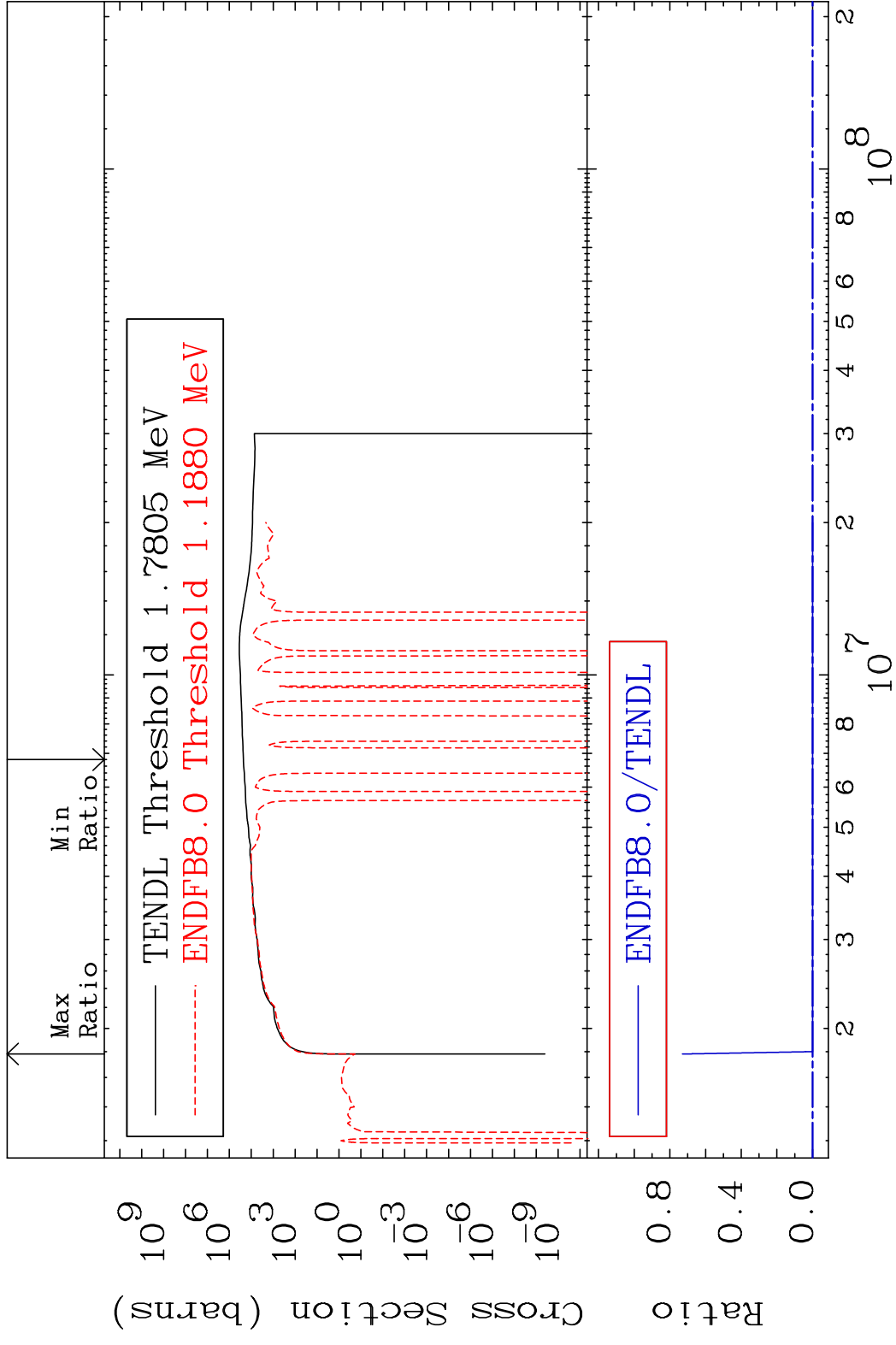
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)

MAT 4025 Kerma non-elastic (all but mt2) 40-Zr-90
 Cross Section -859.2 To 9999. %

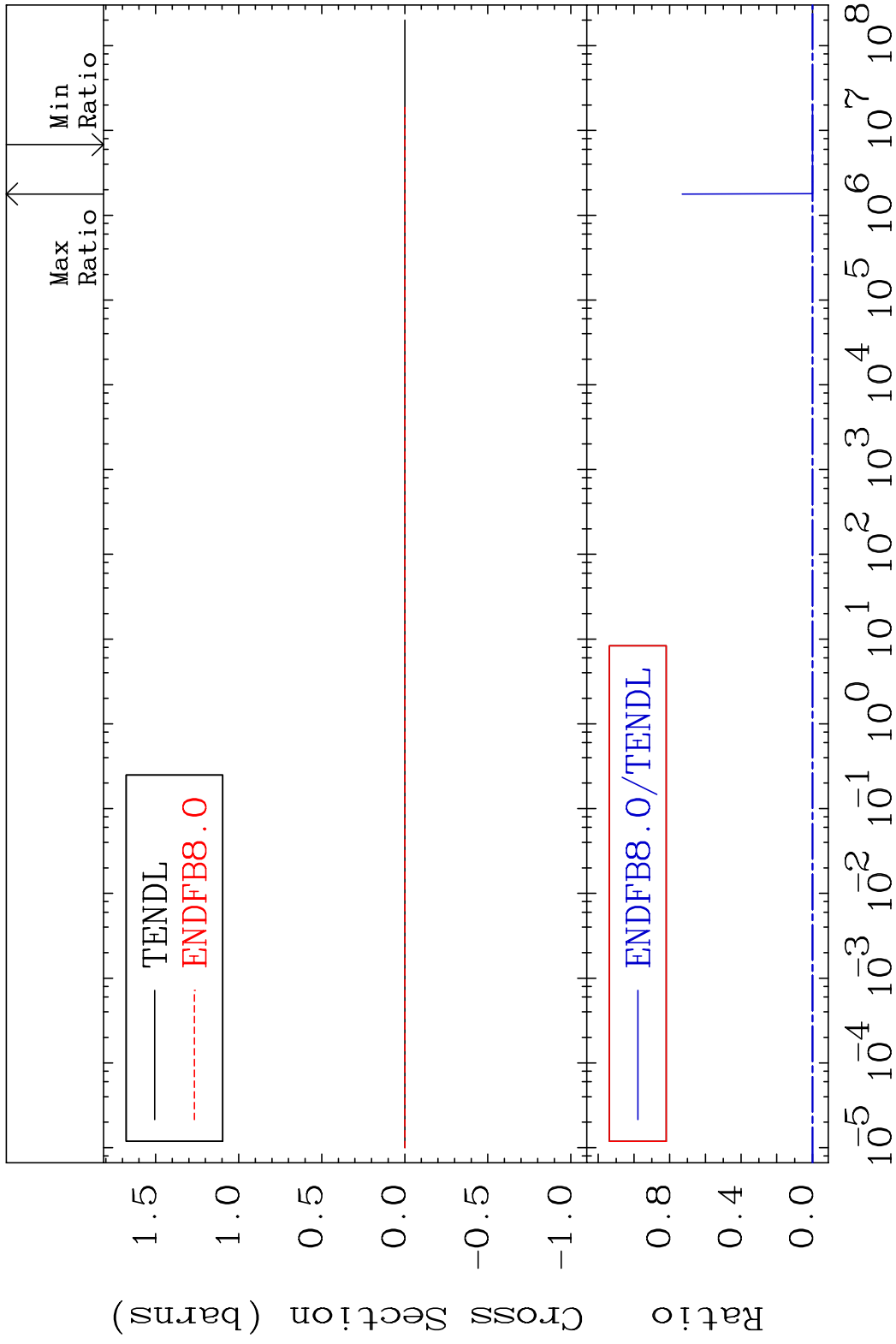


30 Incident Energy (eV) 40-Zr-90

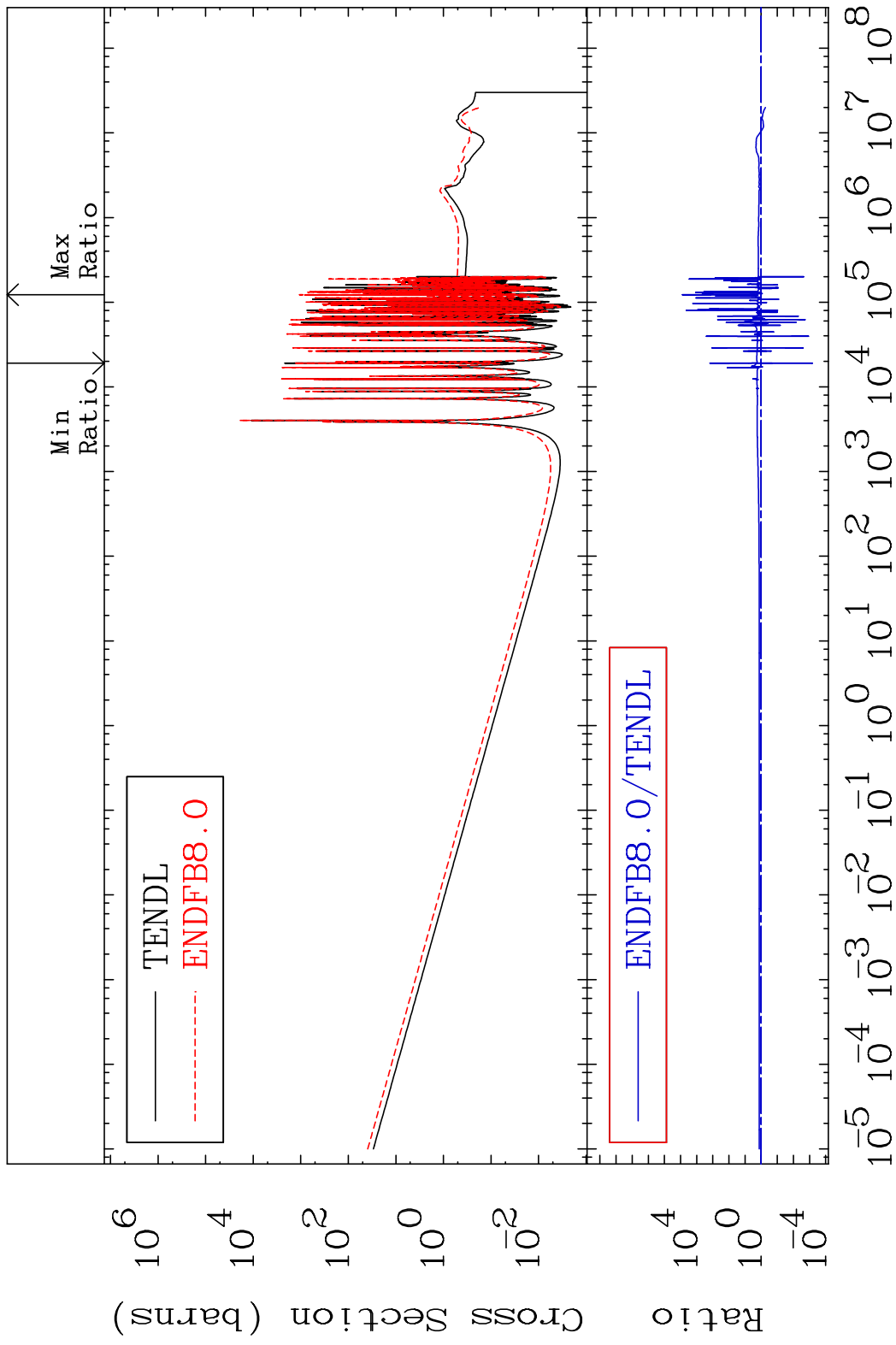
MAT 4025 Kerma inelastic (mt51-91) 40-Zr-90
 Cross Section -139.7 To 9999. %



MAT 4025 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-90
 Cross Section -139.7 To 9999. %

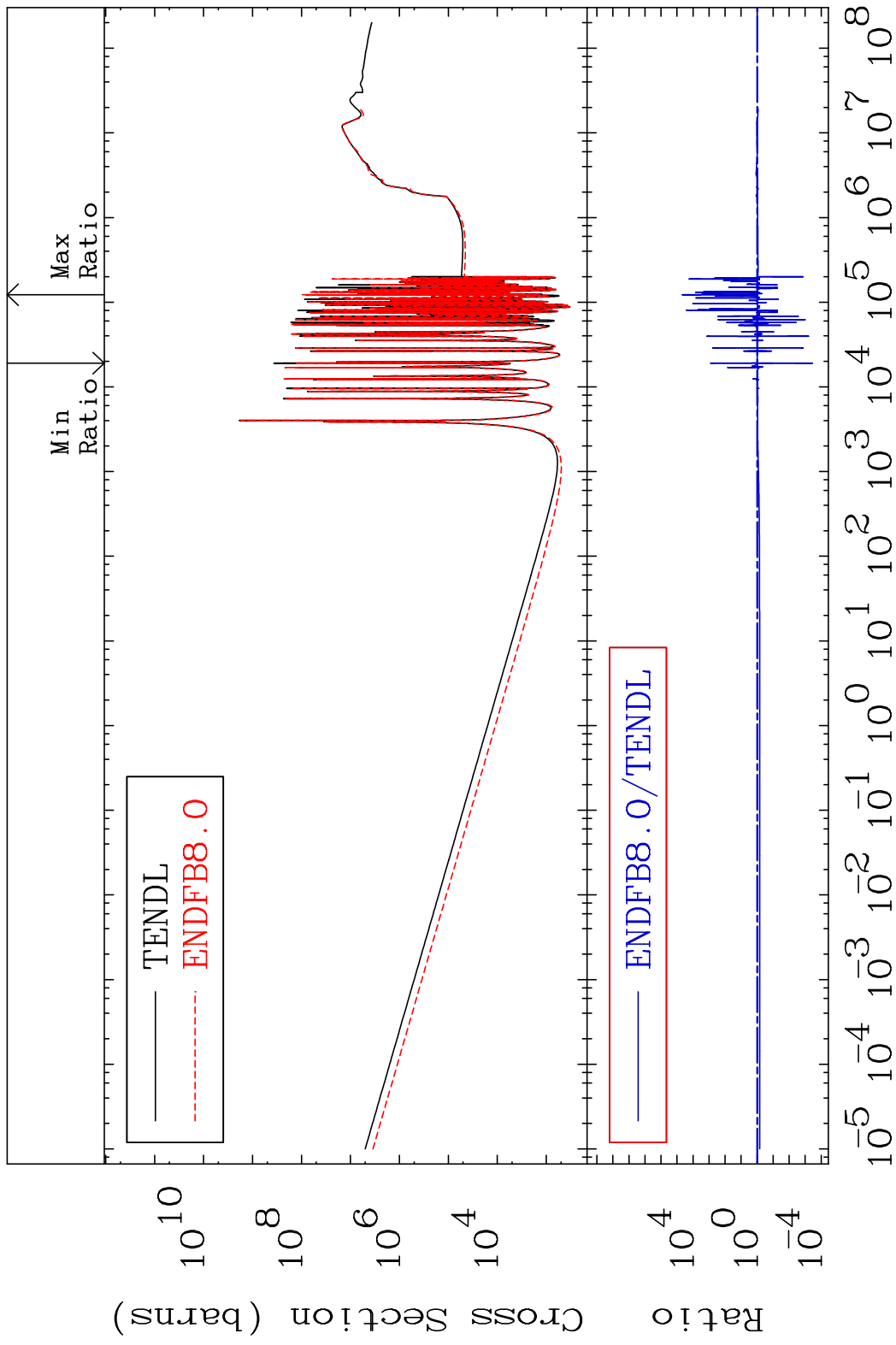


MAT 4025 Kerma capture (mt102) 40-Zr-90
 Cross Section -99.94 To 9999. %



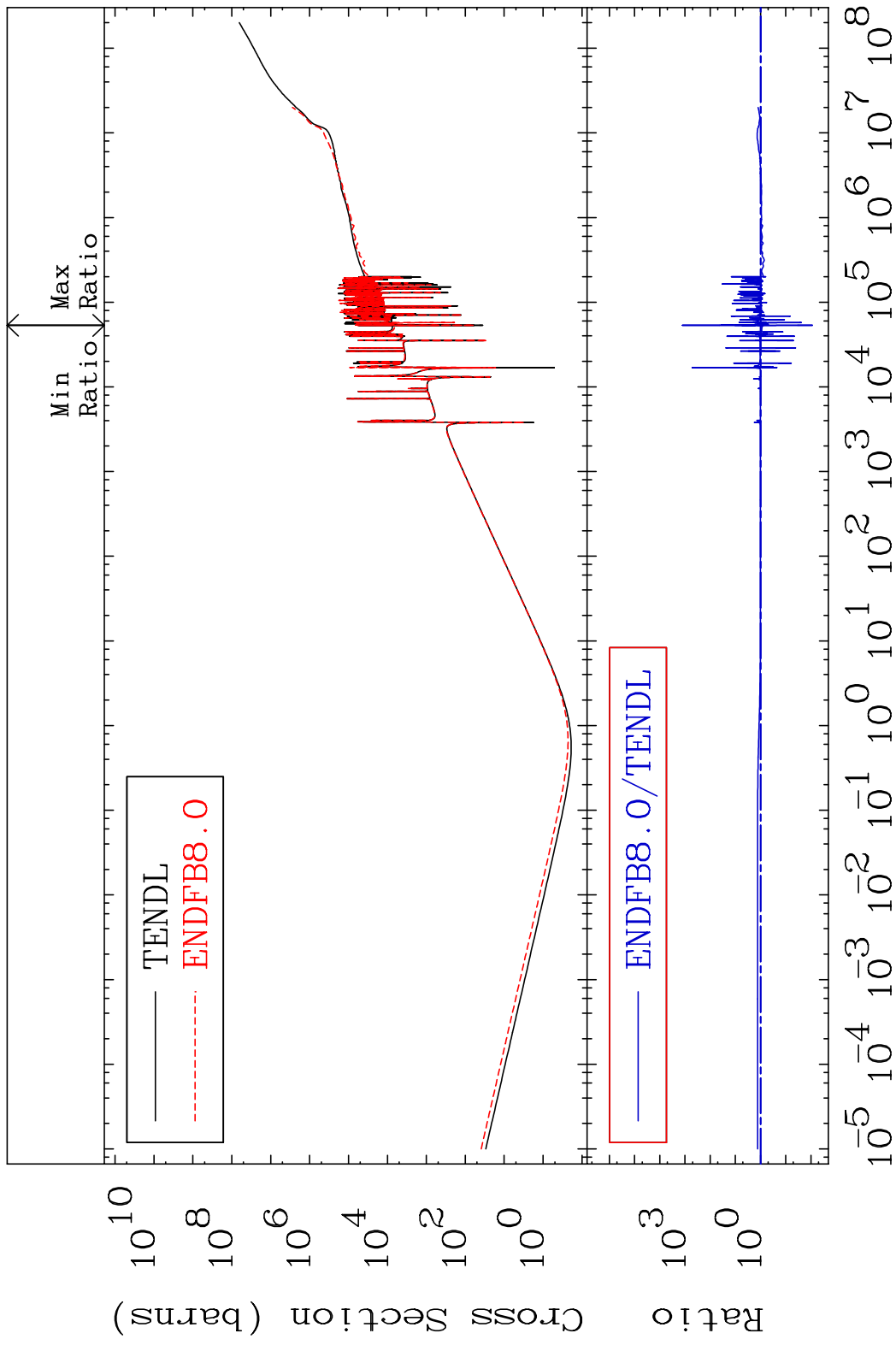
33 Incident Energy (eV) 40-Zr-90

MAT 4025 Total photon (eV-barns) 40-Zr-90
 Cross Section -99.97 To 9999. %

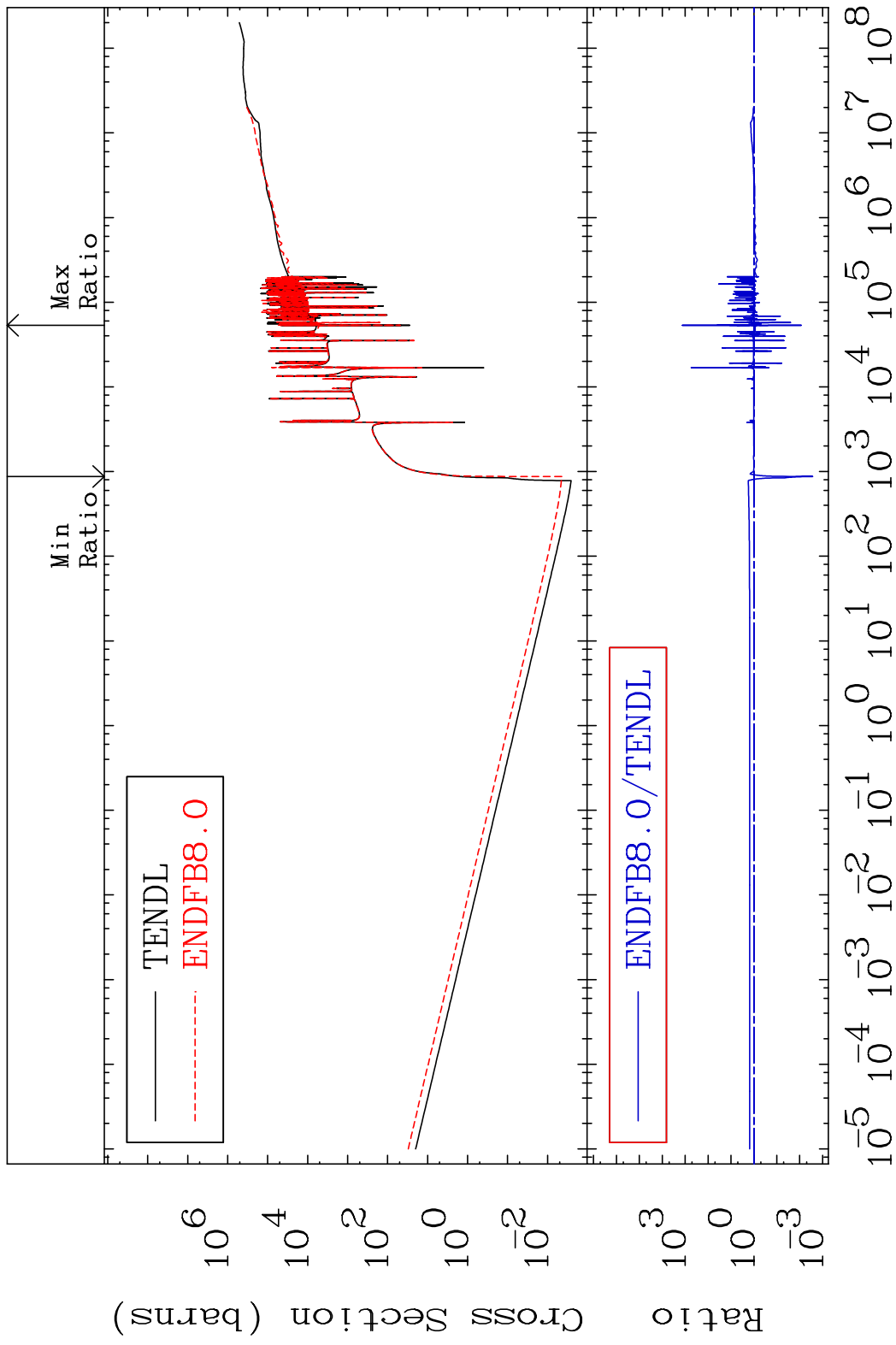


34 Incident Energy (eV) 40-Zr-90

MAT 4025 Total kinematic kerma (high limit) 40-Zr-90
 Cross Section -99.14 To 9999. %



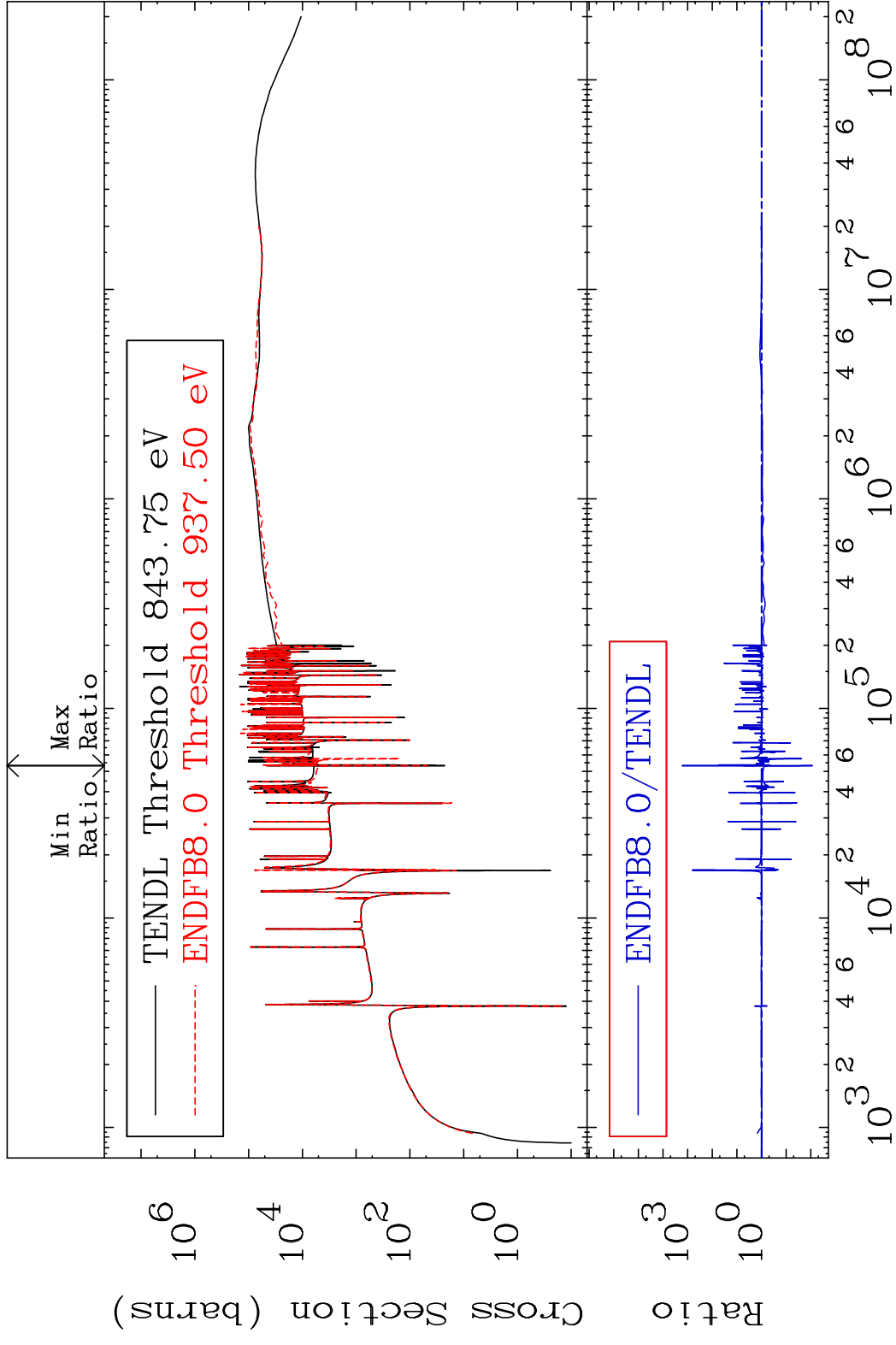
MAT 4025 Dpa total (eV-barns) 40-Zr-90
 Cross Section -99.72 To 9999. %



36 Incident Energy (eV) 40-Zr-90

MAT 4025

Dpa elastic (mt2) 40-Zr-90
Cross Section -99.14 To 9999. %

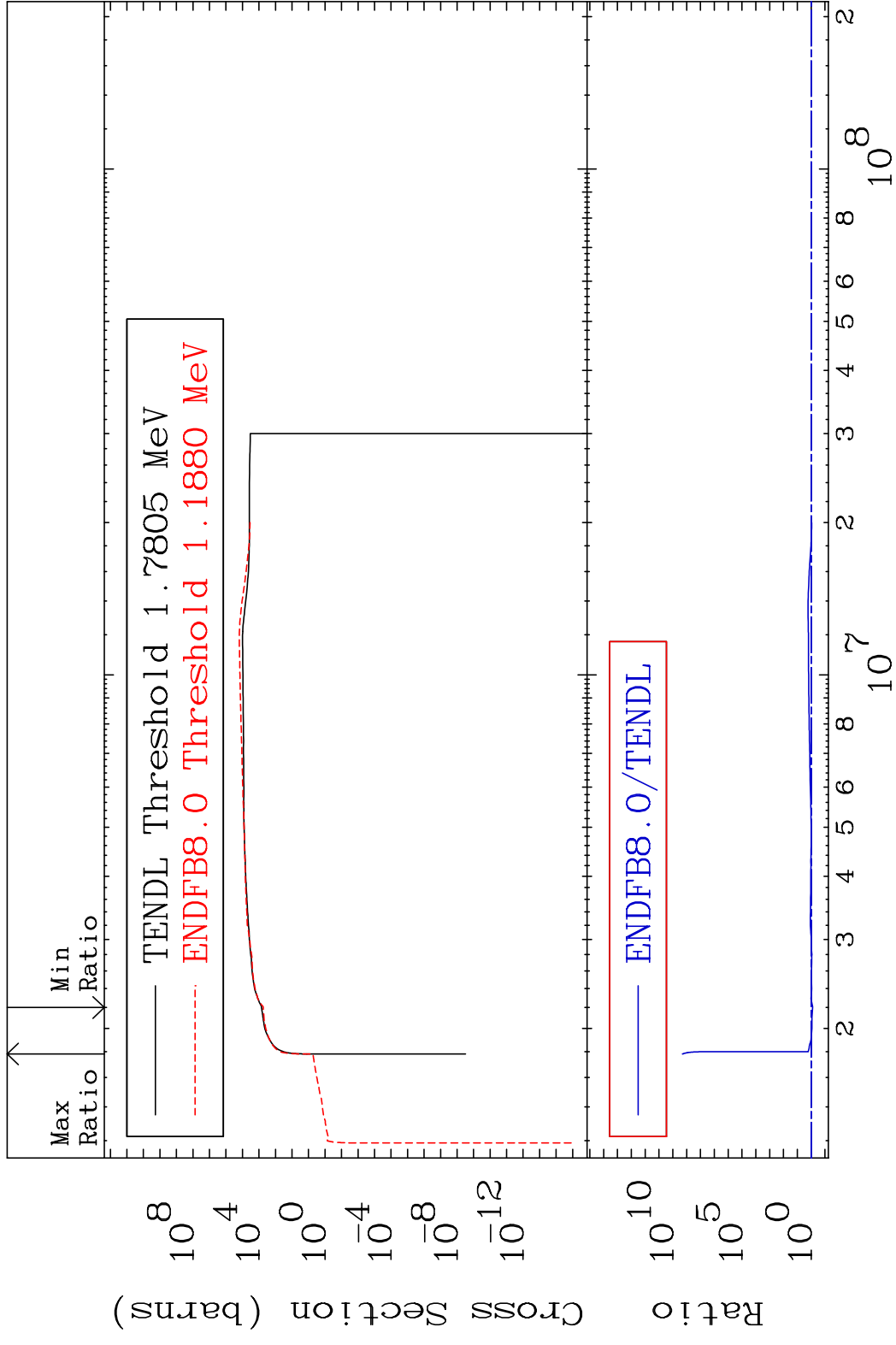


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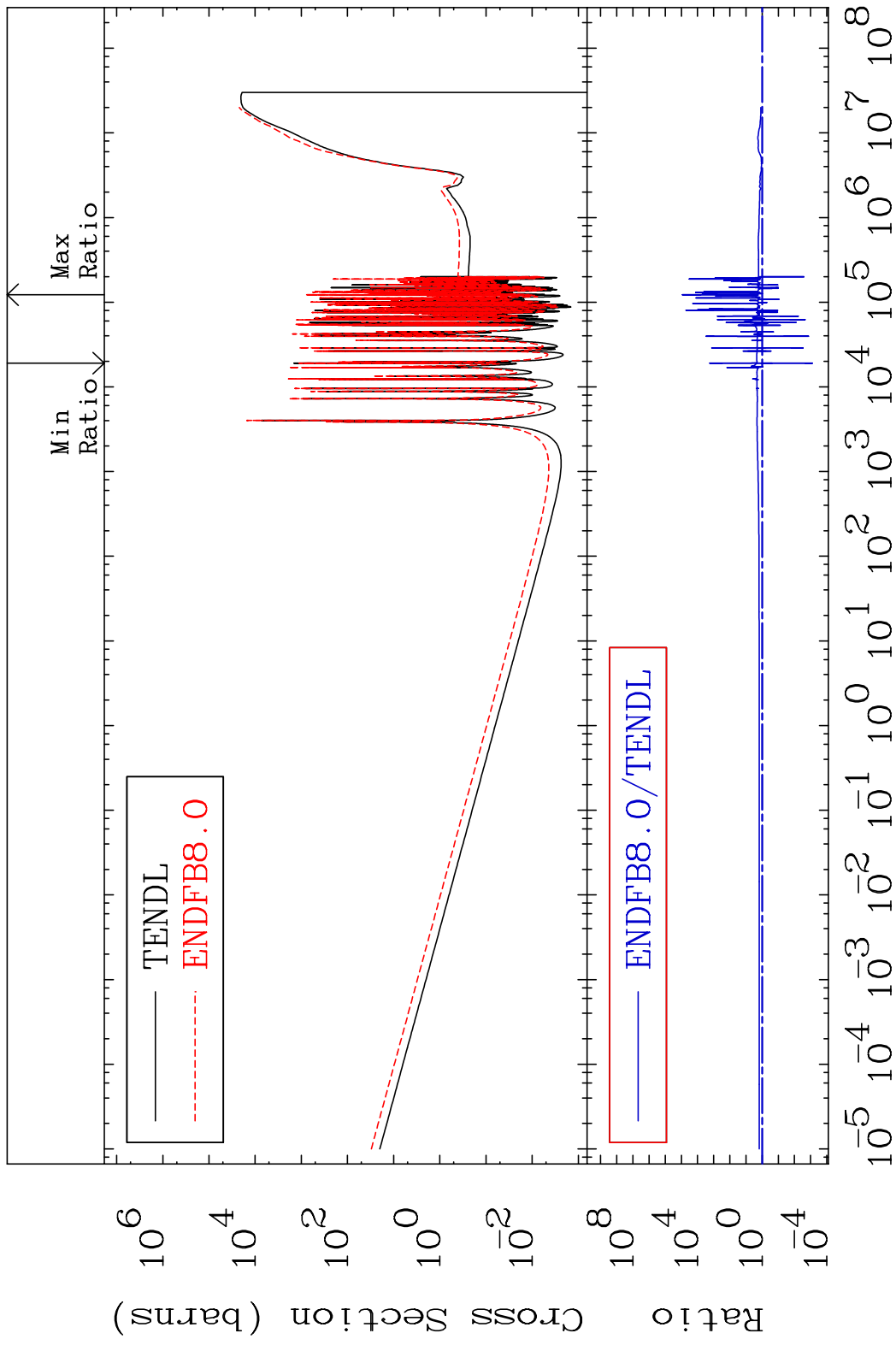
Incident Energy (eV)

40-Zr-90

MAT 4025 Dpa inelastic (mt51-91) 40-Zr-90
 Cross Section -20.82 To 9999. %

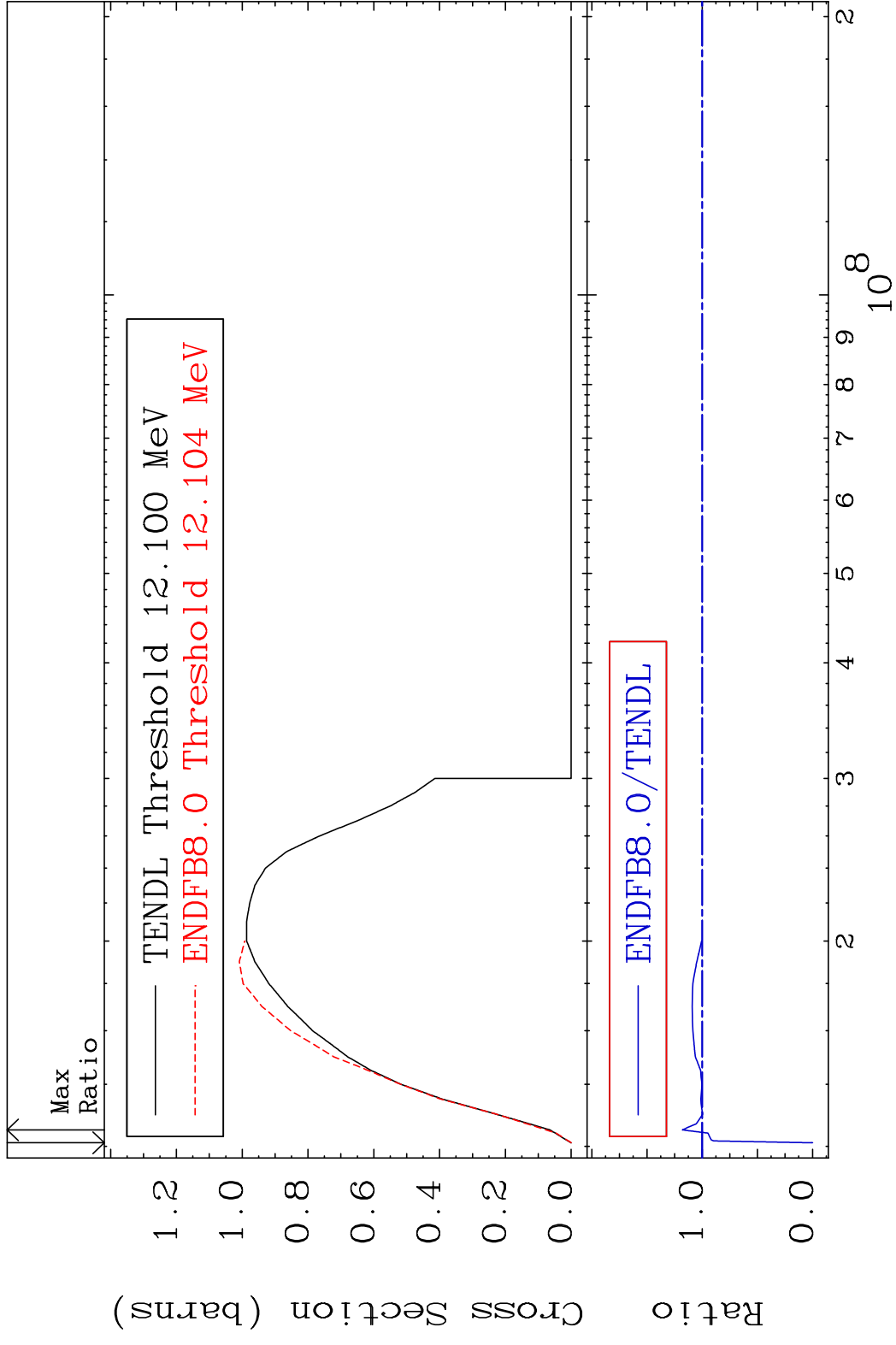


MAT 4025 Dpa disappearance (mt102 -120) 40-Zr-90
 Cross Section -99.92 To 9999. %



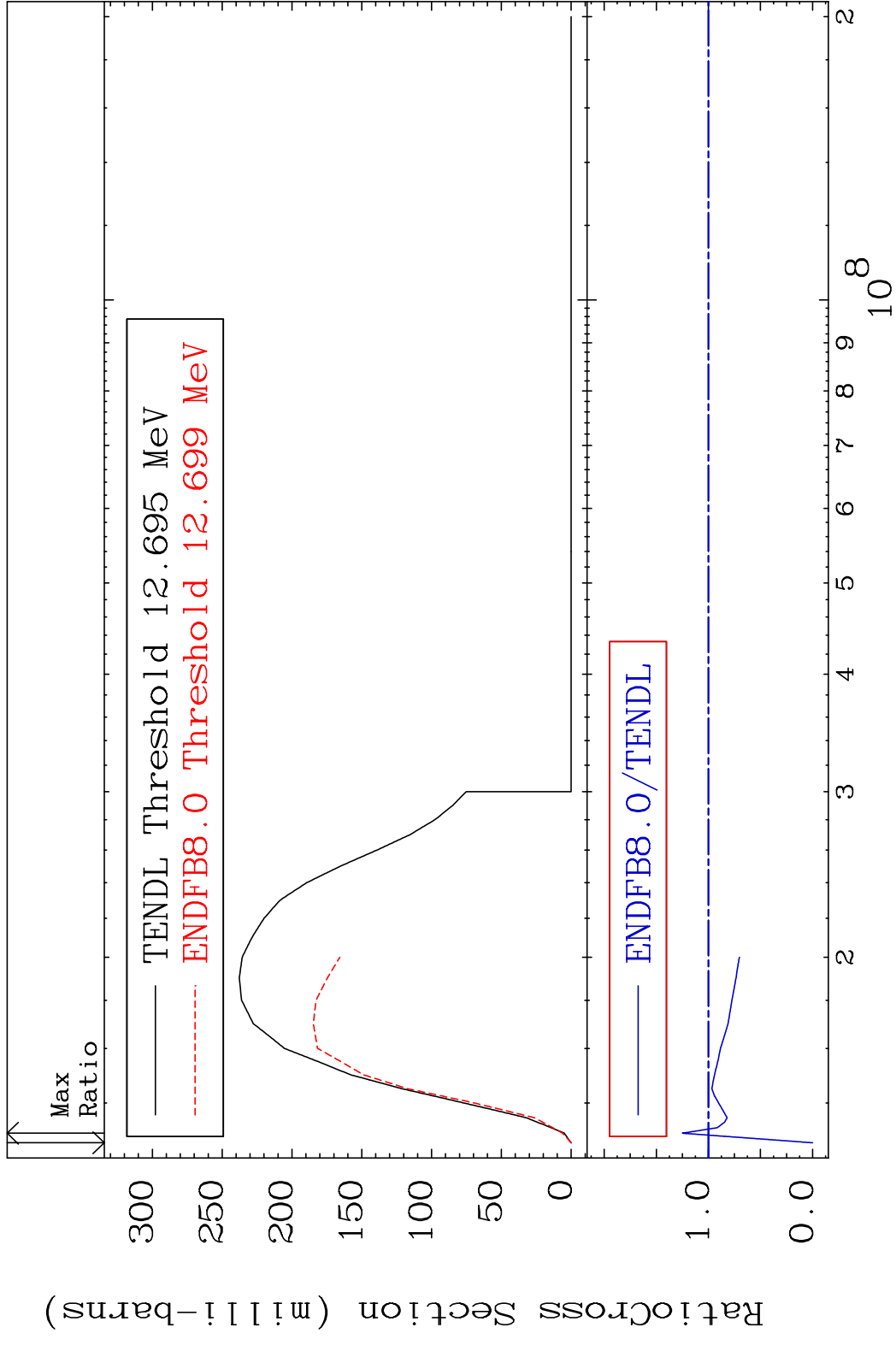
39 Incident Energy (eV) 40-Zr-90

MAT 4025 (n,2n):40-Zr-89g 40-Zr-90
 Radionuclide Production Cross Section 180.01 dth 17.96 %

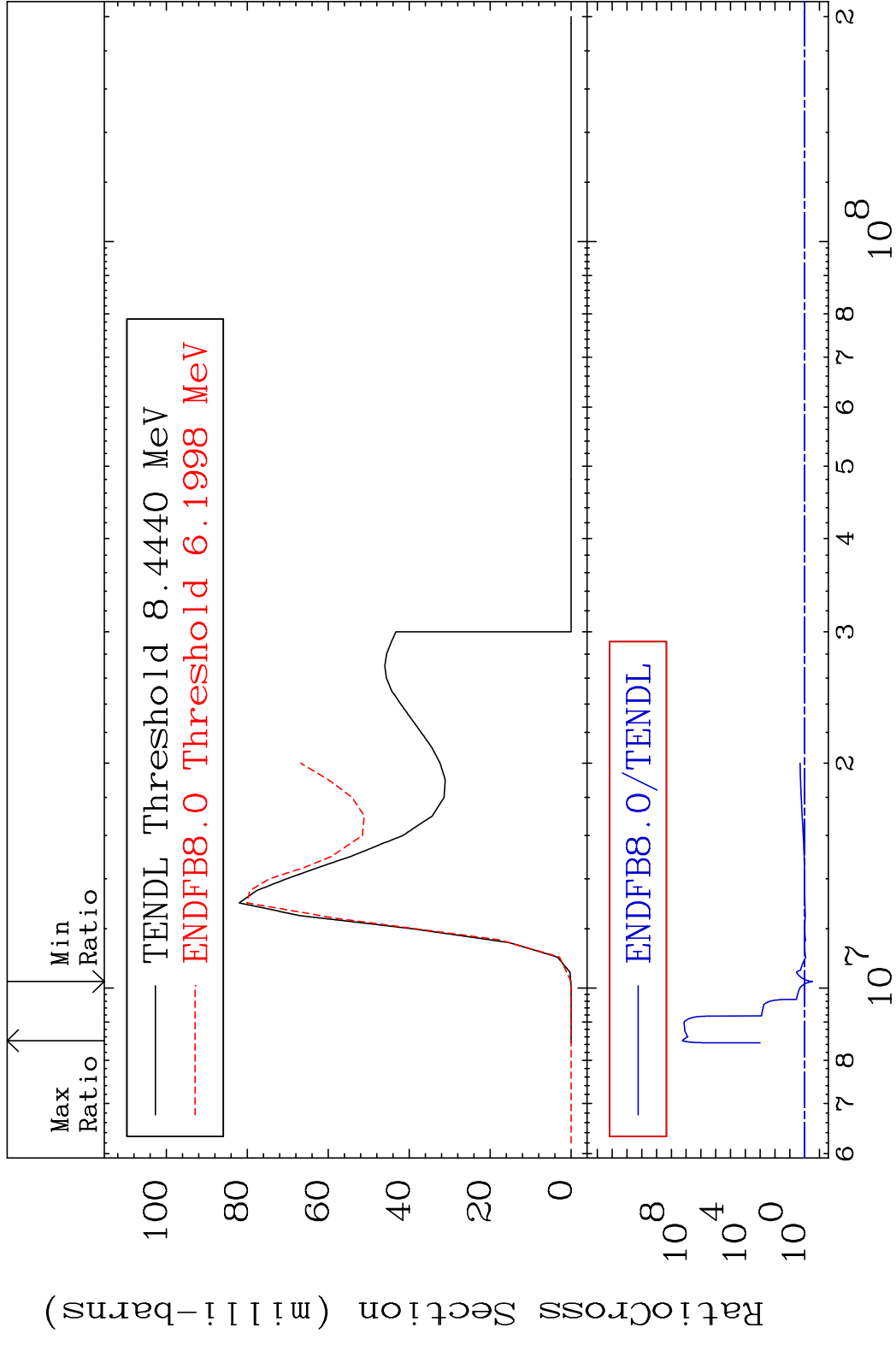


40 40-Zr-90

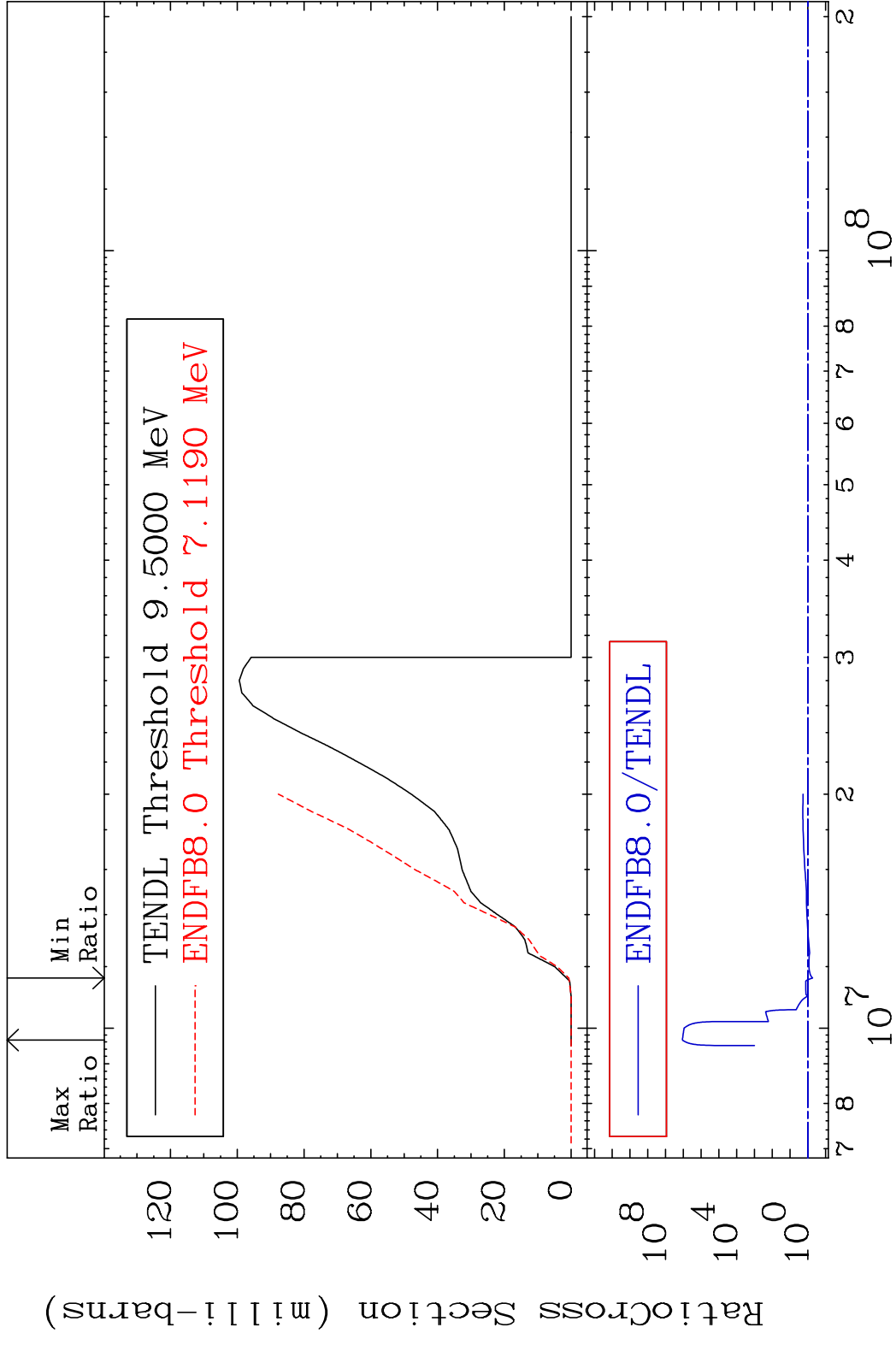
MAT 4025 (n,2n):40-Zr-89m1 40-Zr-90
 Radionuclide Production Cross Section 180.01 dth 25.00 %

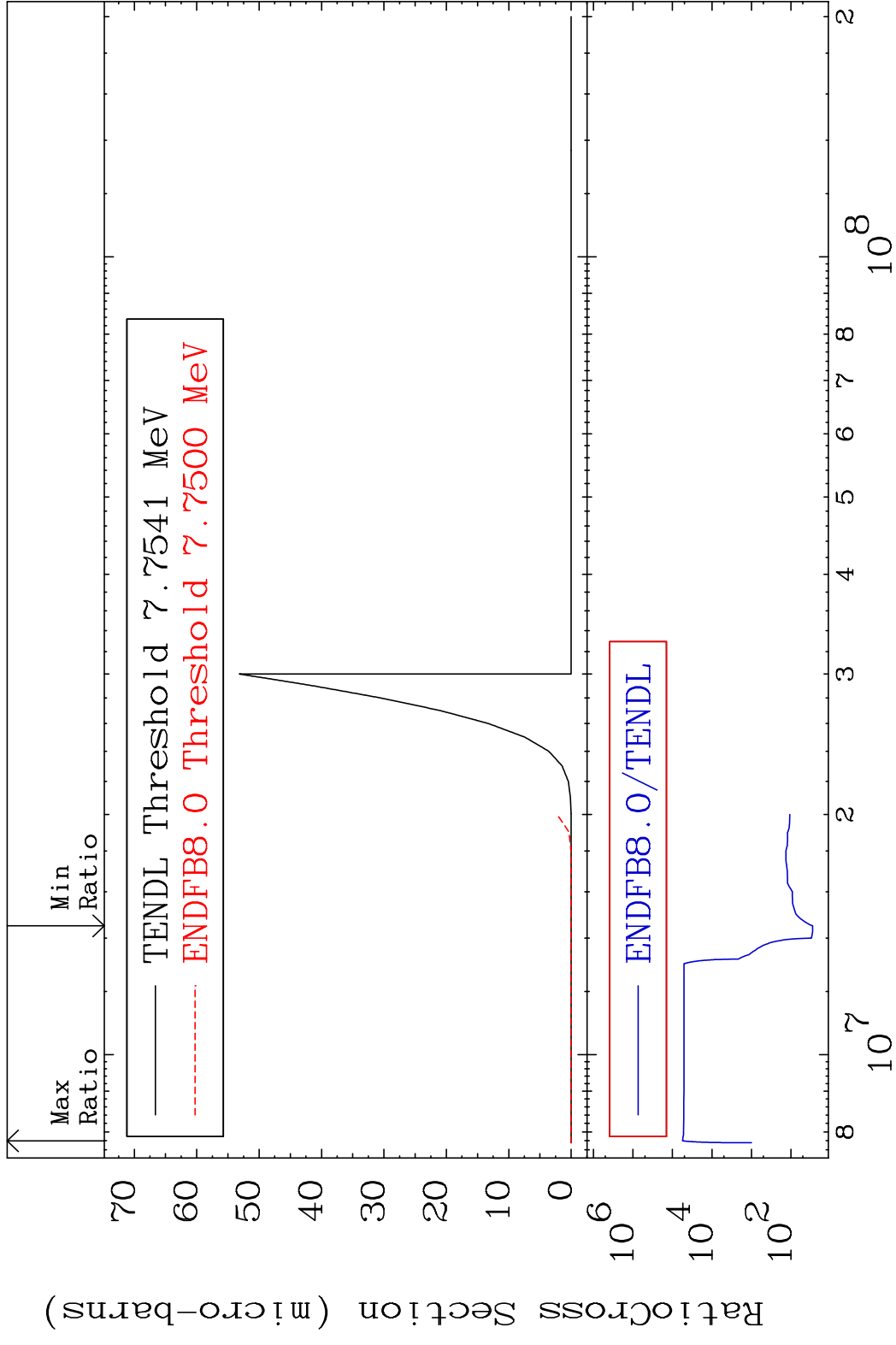


MAT 4025 (n, n') p:39-Y -89g 40-Zr-90
 Radionuclide Production Cross Section 9999. %

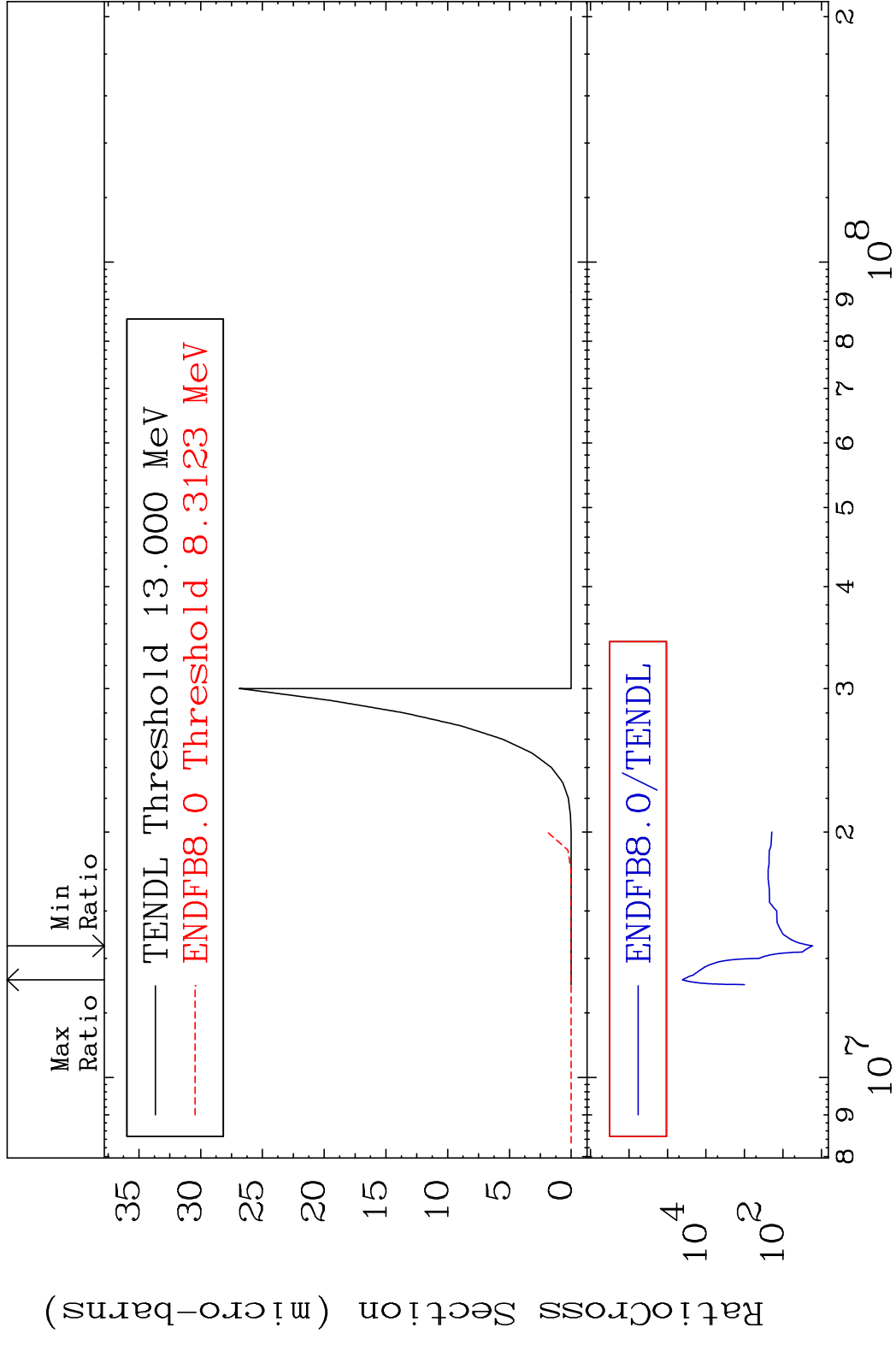


MAT 4025 (n, n') p:39-Y -89m1 40-Zr-90
 Radionuclide Production Cross Section Efficiency 9999. %





MAT 4025 (n,p) α :37-Rb-86m2 40-Zr-90
 Radionuclide Production Cross Section to 9999. %



45 Incident Energy (eV) 40-Zr-90