

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

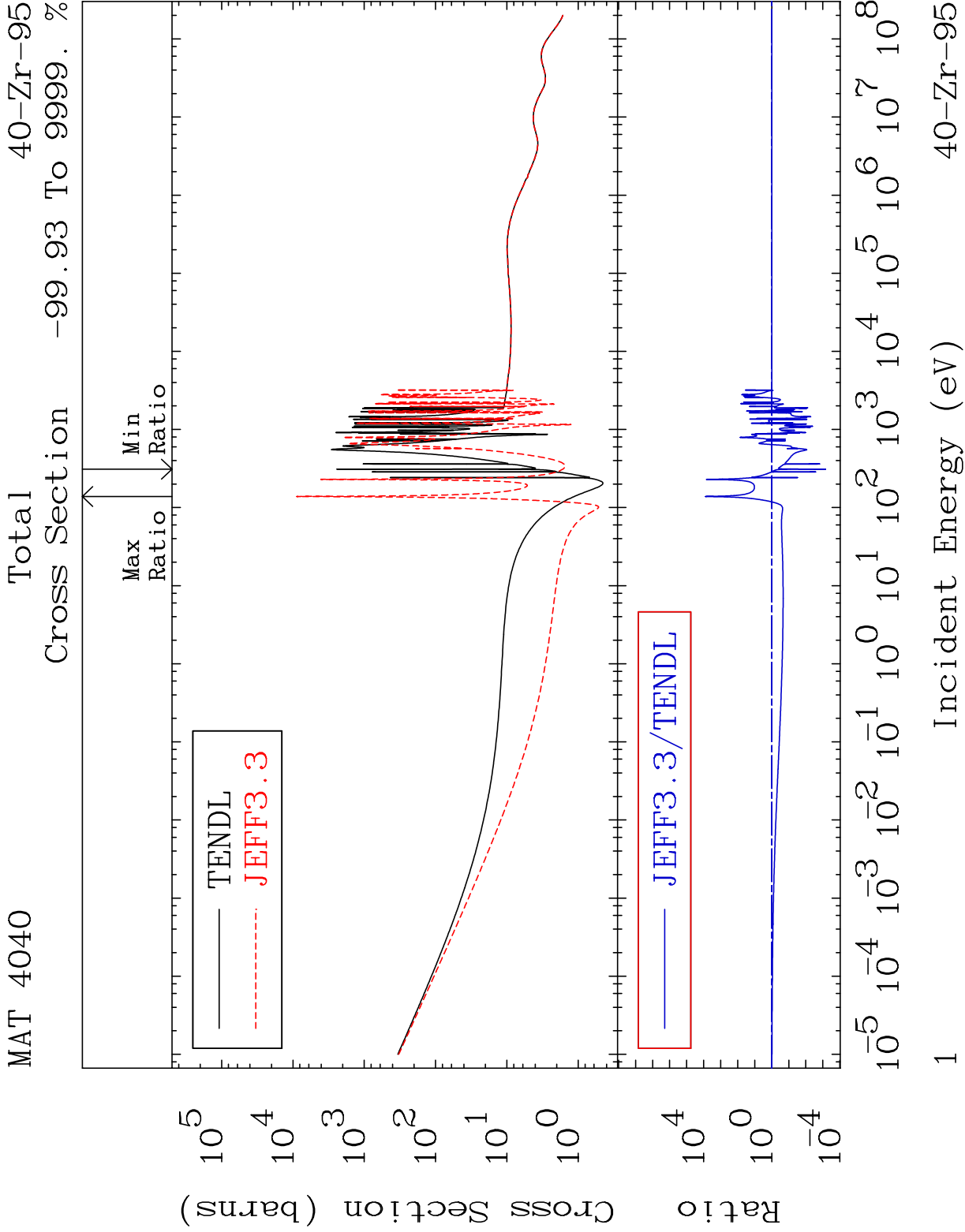
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

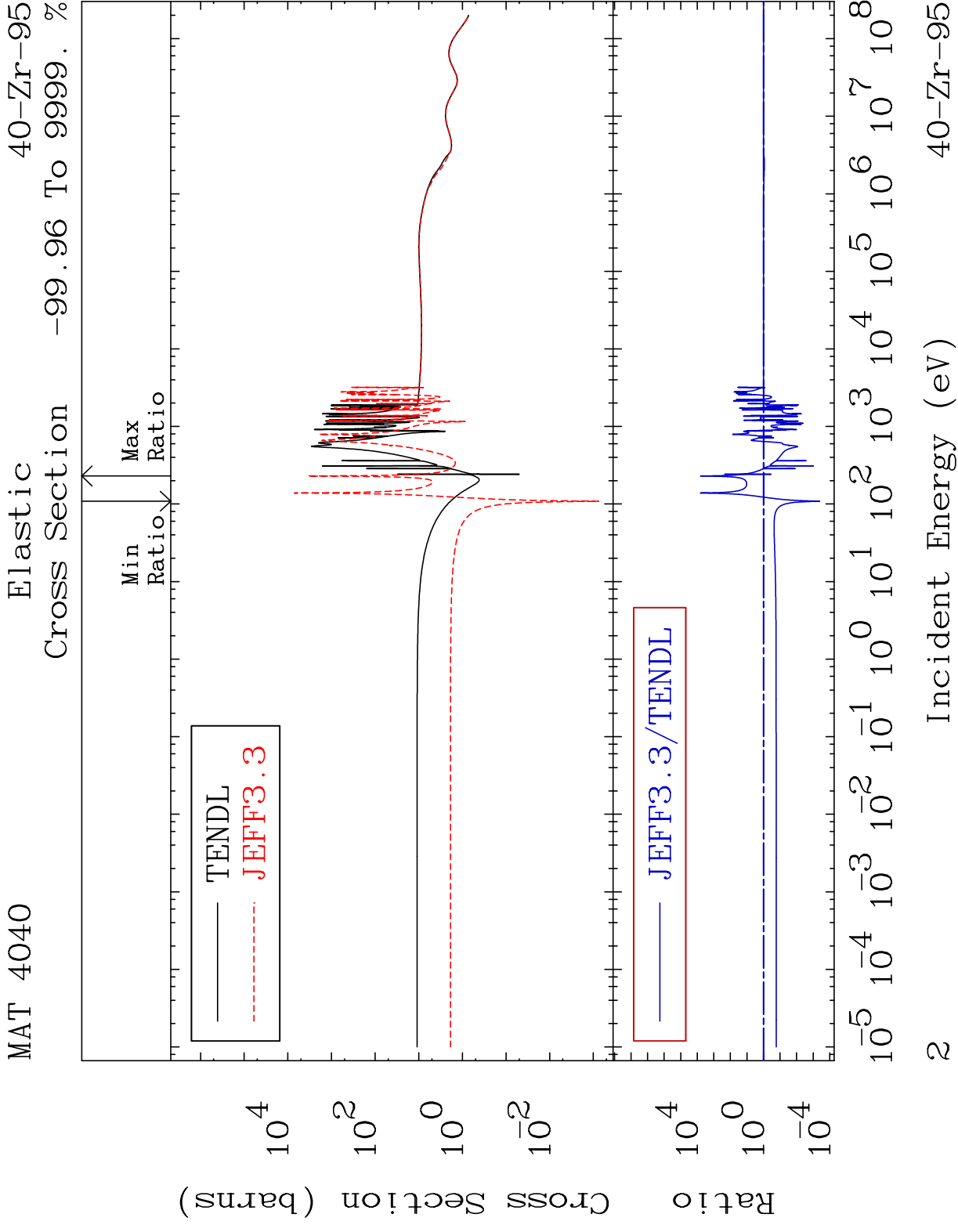
U.S.A.

Tele: 925-443-1911

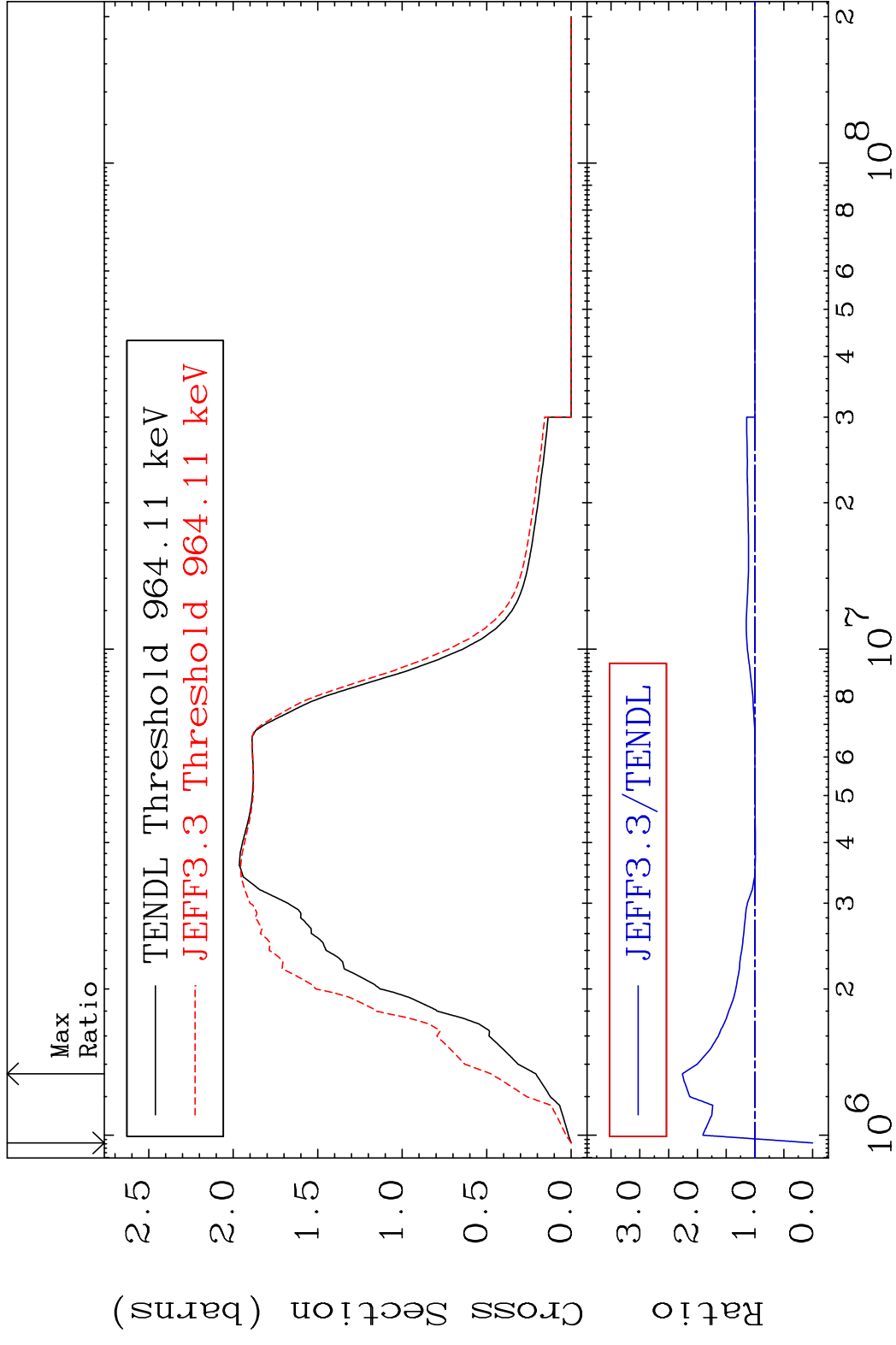
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start



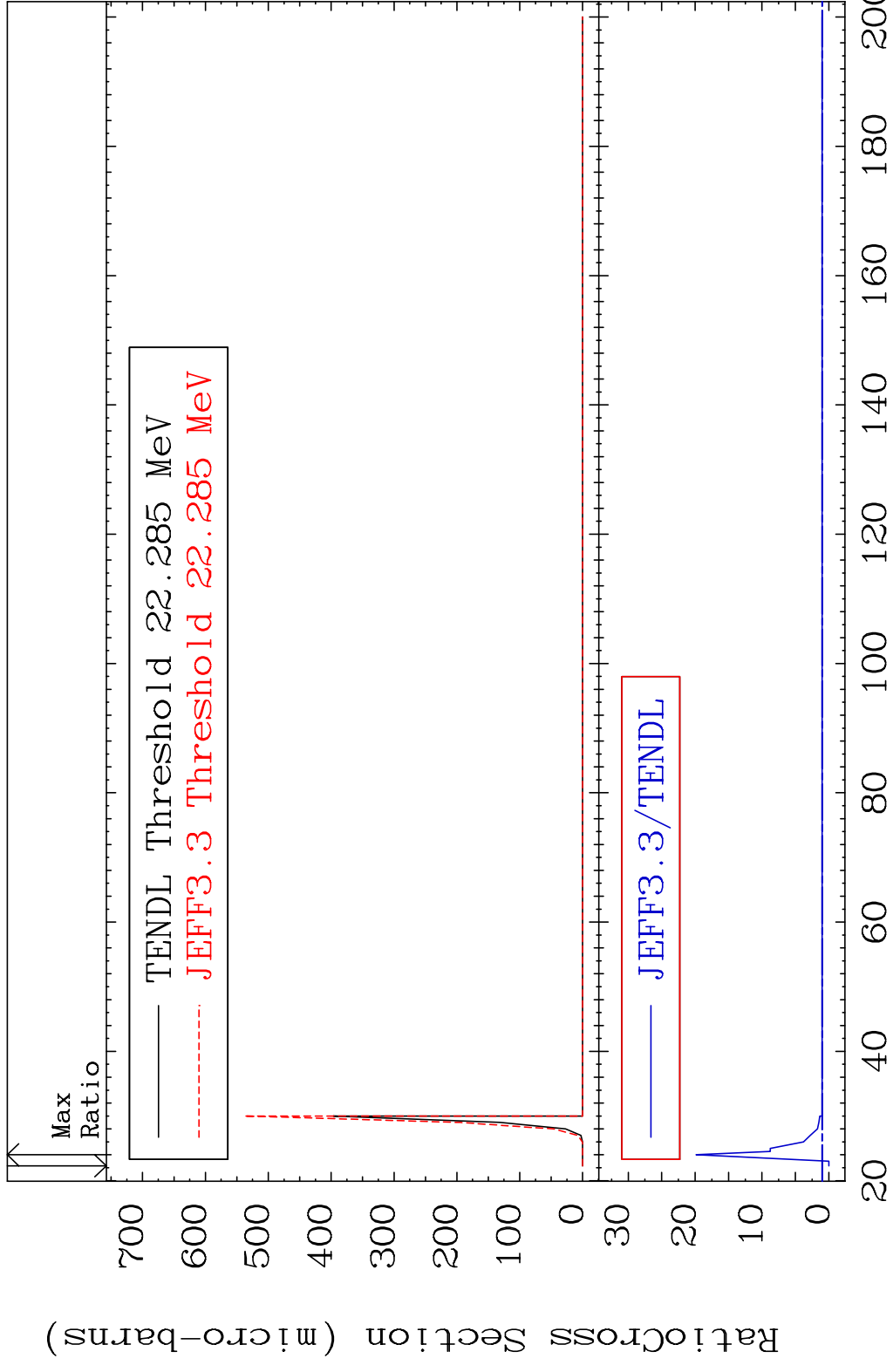


MAT 4040 Inelastic Cross Section -100.0 To 126.2 % 40-Zr-95

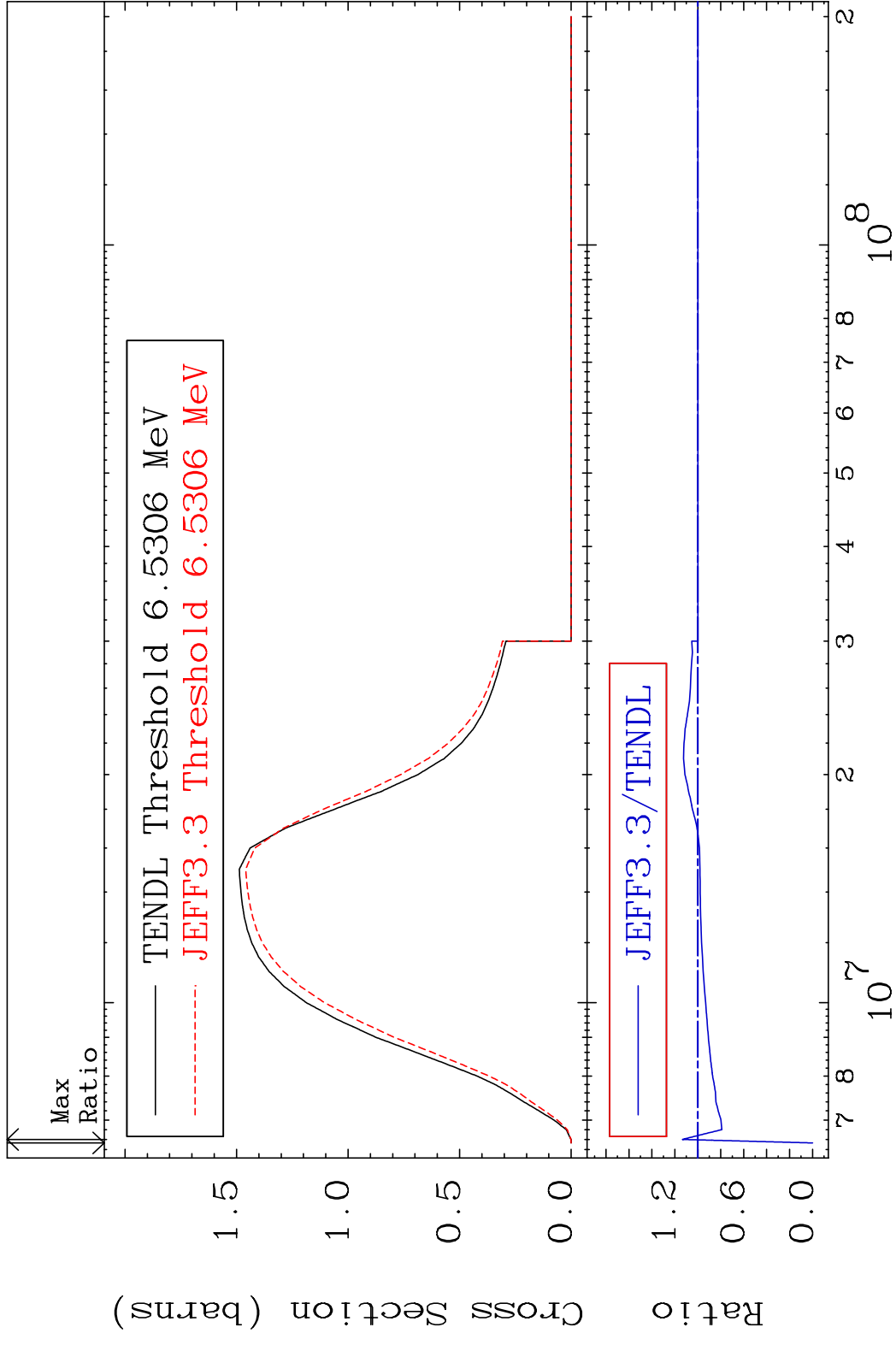


3 Incident Energy (eV) 40-Zr-95

MAT 4040 (n,2n) d 40-Zr-95
Cross Section -100.0 To 1886. %

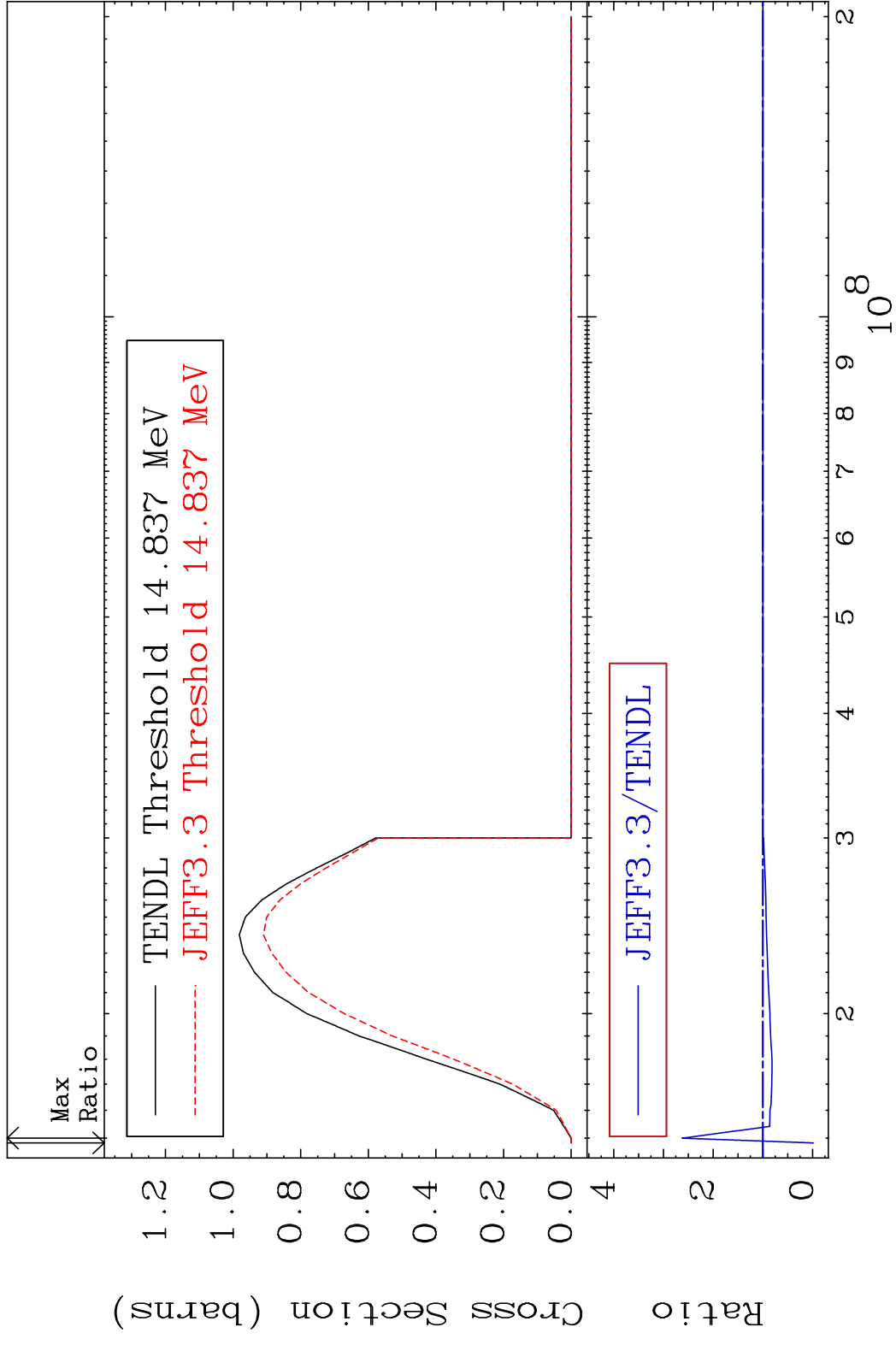


MAT 4040 (n,2n) 40-Zr-95
 Cross Section -100.0 To 13.45 %

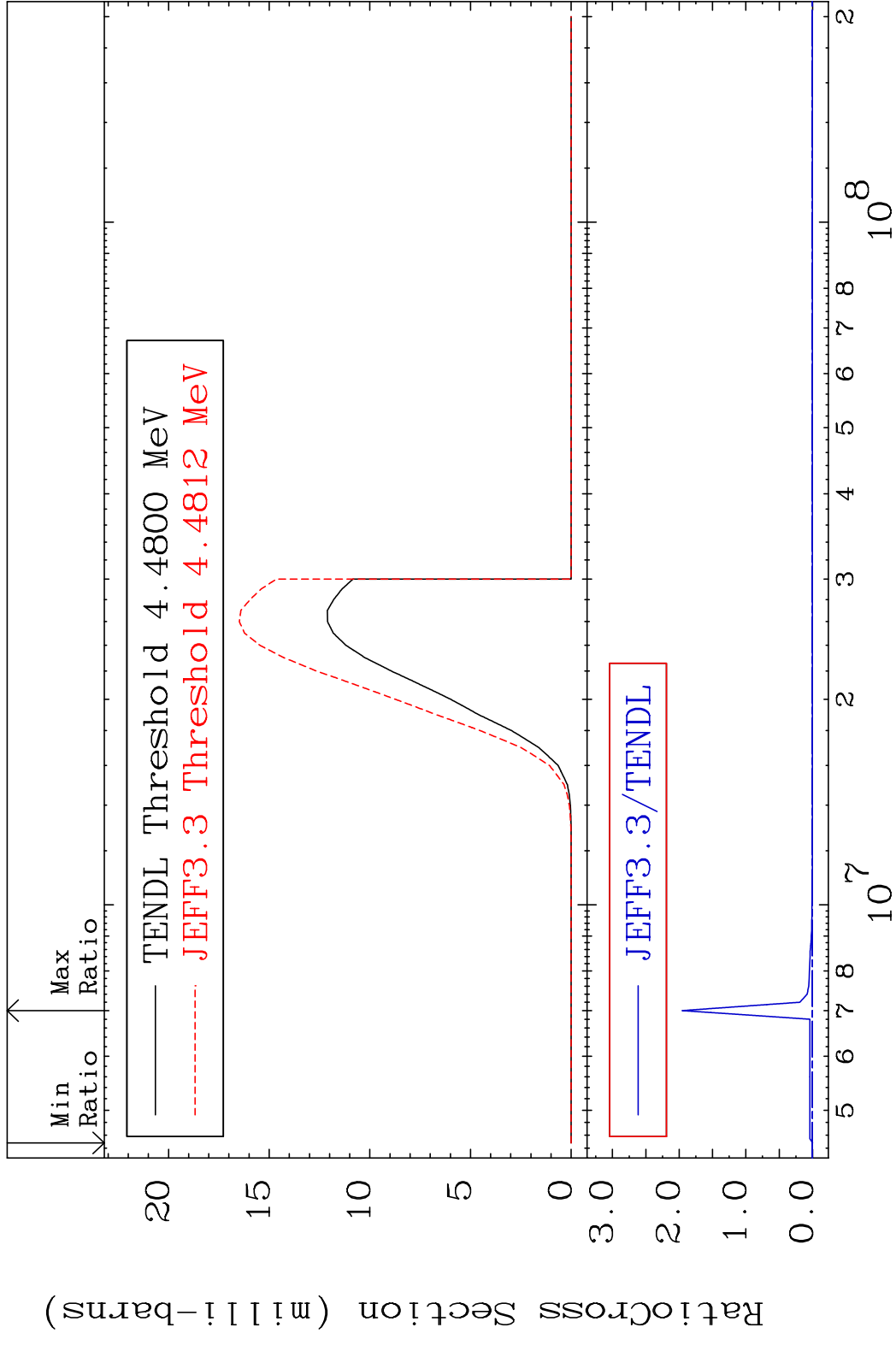


5 Incident Energy (eV) 40-Zr-95

MAT 4040 (n,3n) 40-Zr-95
 Cross Section -100.0 To 161.9 %



MAT 4040 (n, n') α 40-Zr-95
 Cross Section -100.0 To 9999. %

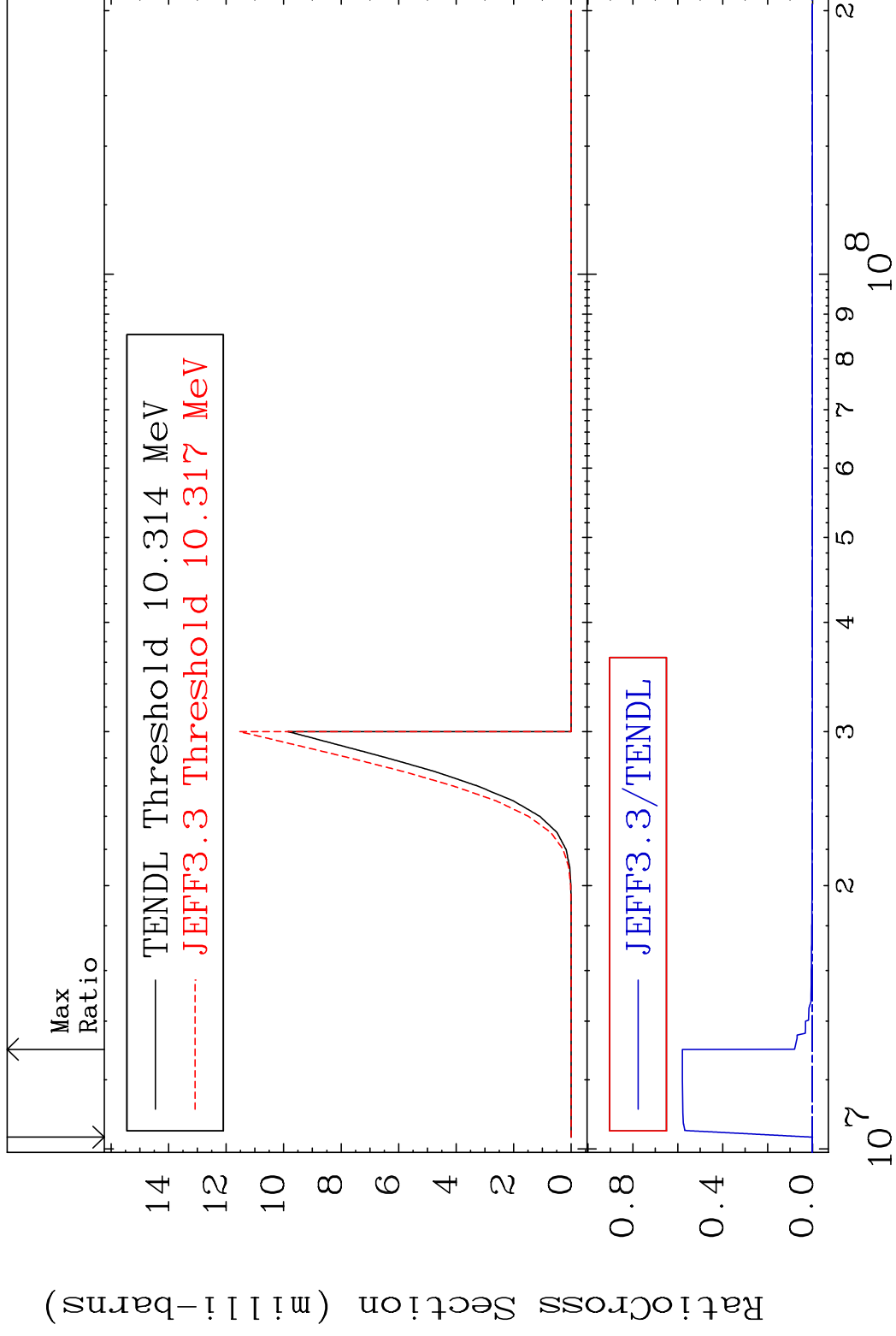


MAT 4040

(n,2n) α

40-Zr-95

Cross Section -100.0 To 9999. %

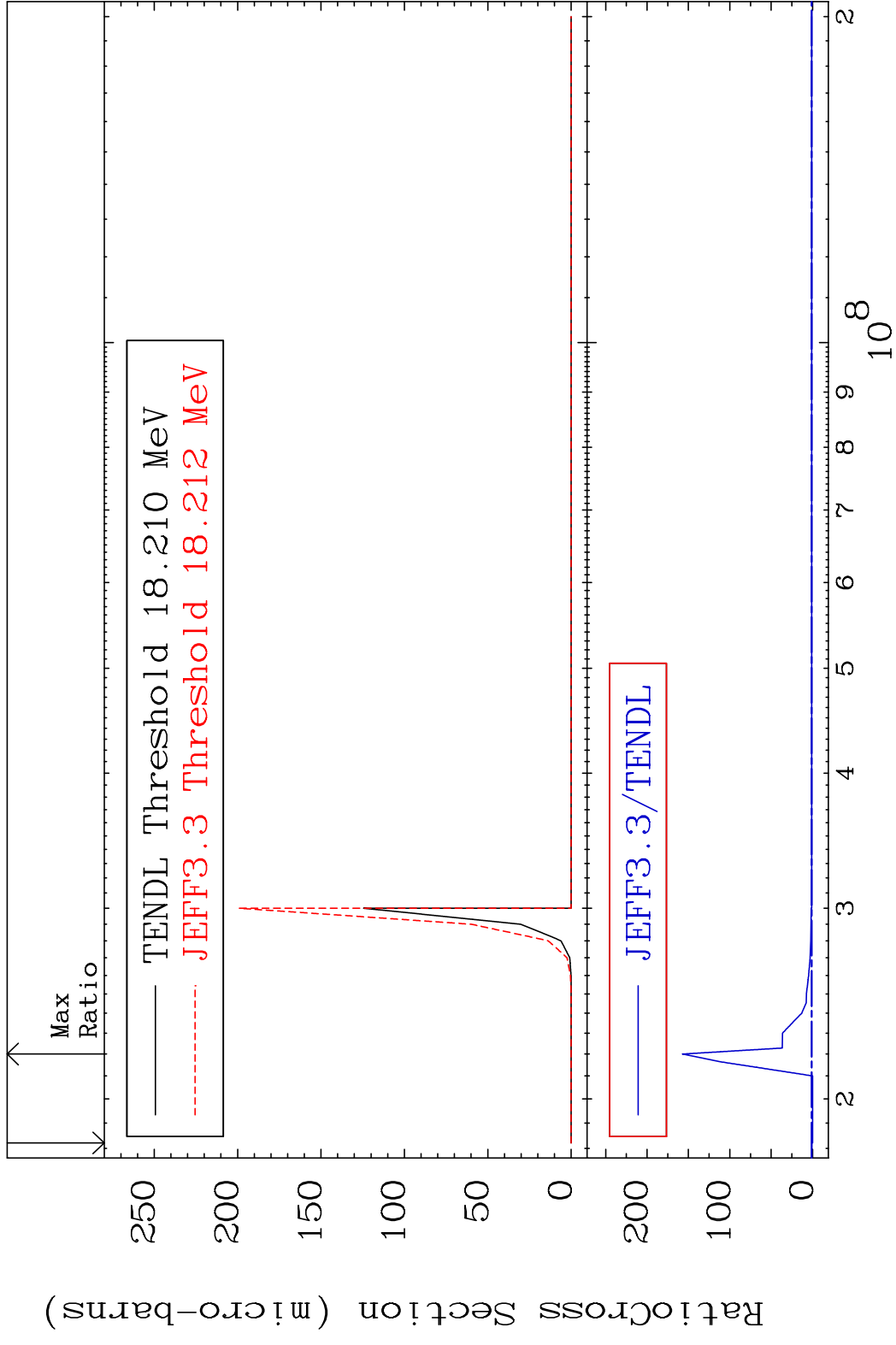


8

Incident Energy (eV)

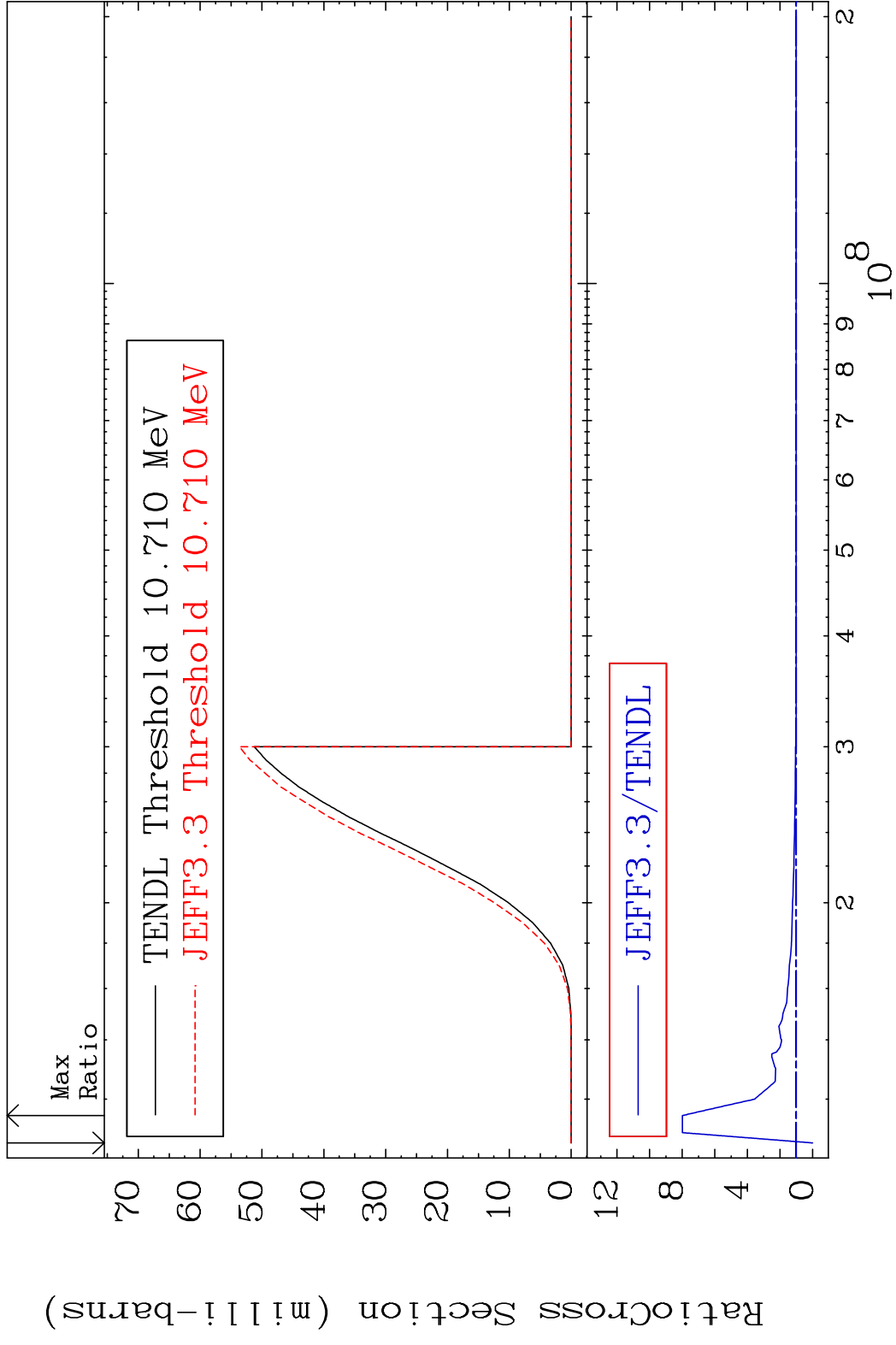
40-Zr-95

MAT 4040 (n,3n) α 40-Zr-95
 Cross Section -100.0 To 9999. %

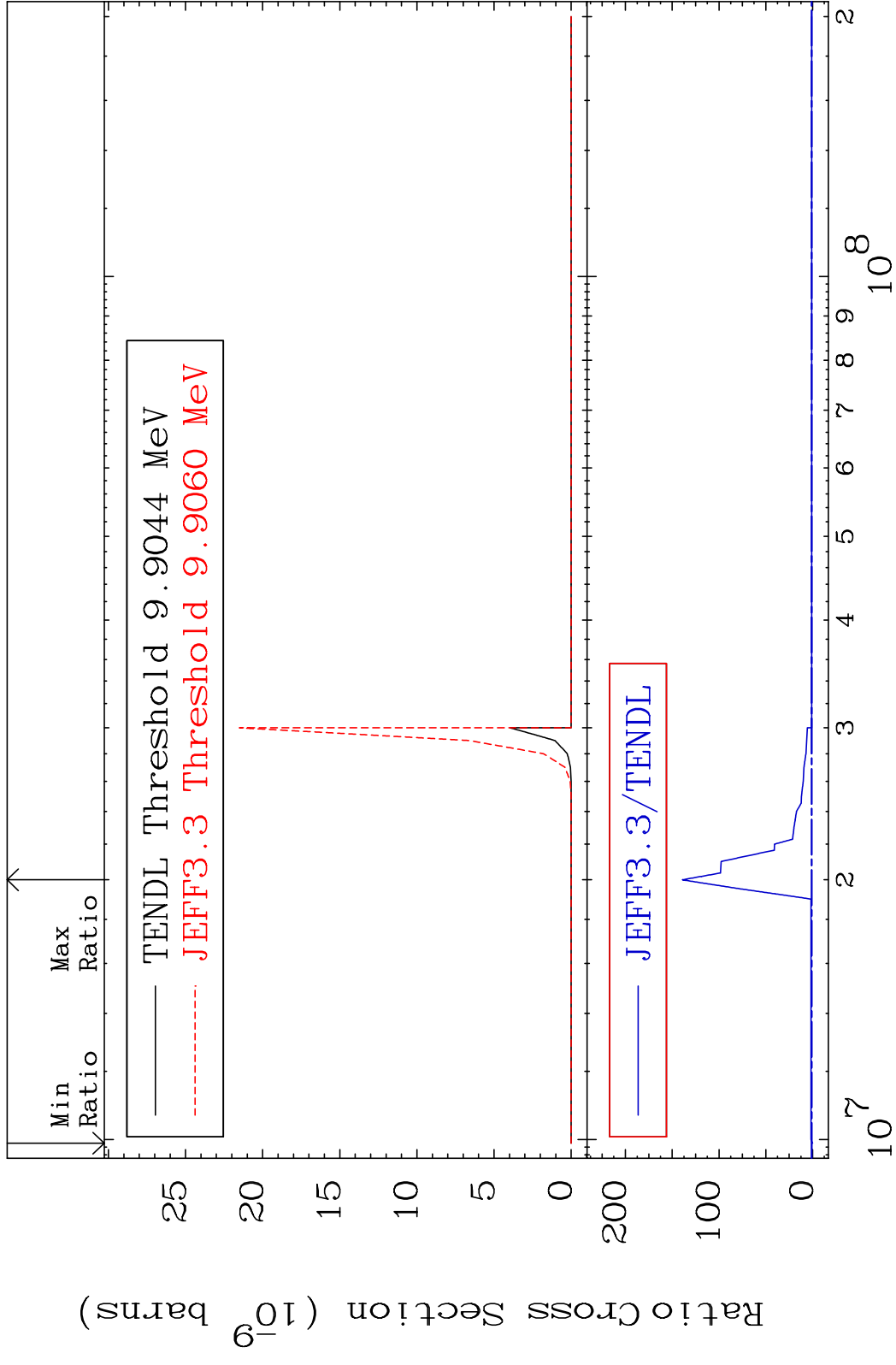


9 Incident Energy (eV) 40-Zr-95

MAT 4040 (n, n') p 40-Zr-95
 Cross Section -100.0 To 699.0 %

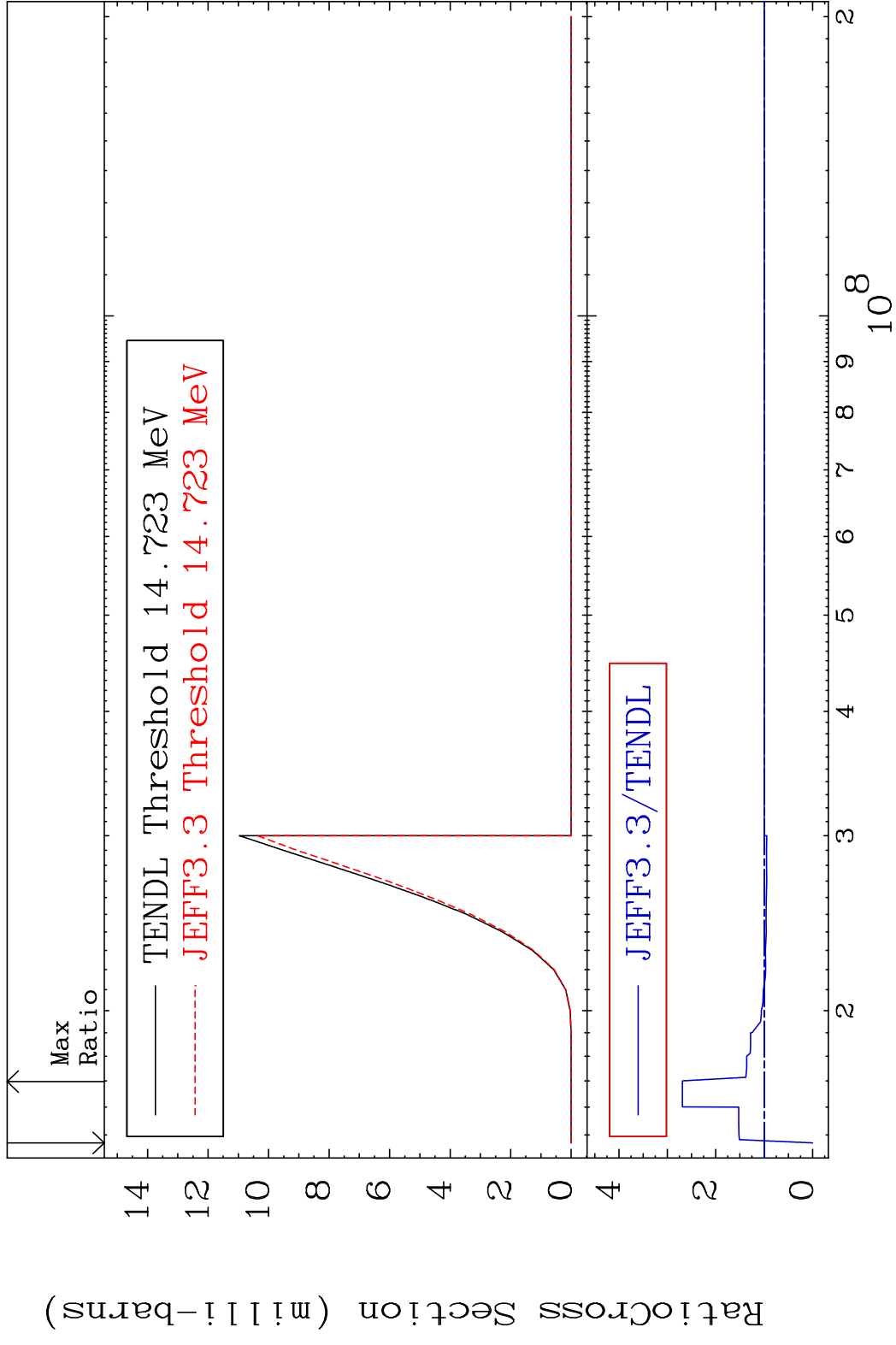


MAT 4040 (n, n') 2α 40-Zr-95
 Cross Section -100.0 To 9999. %

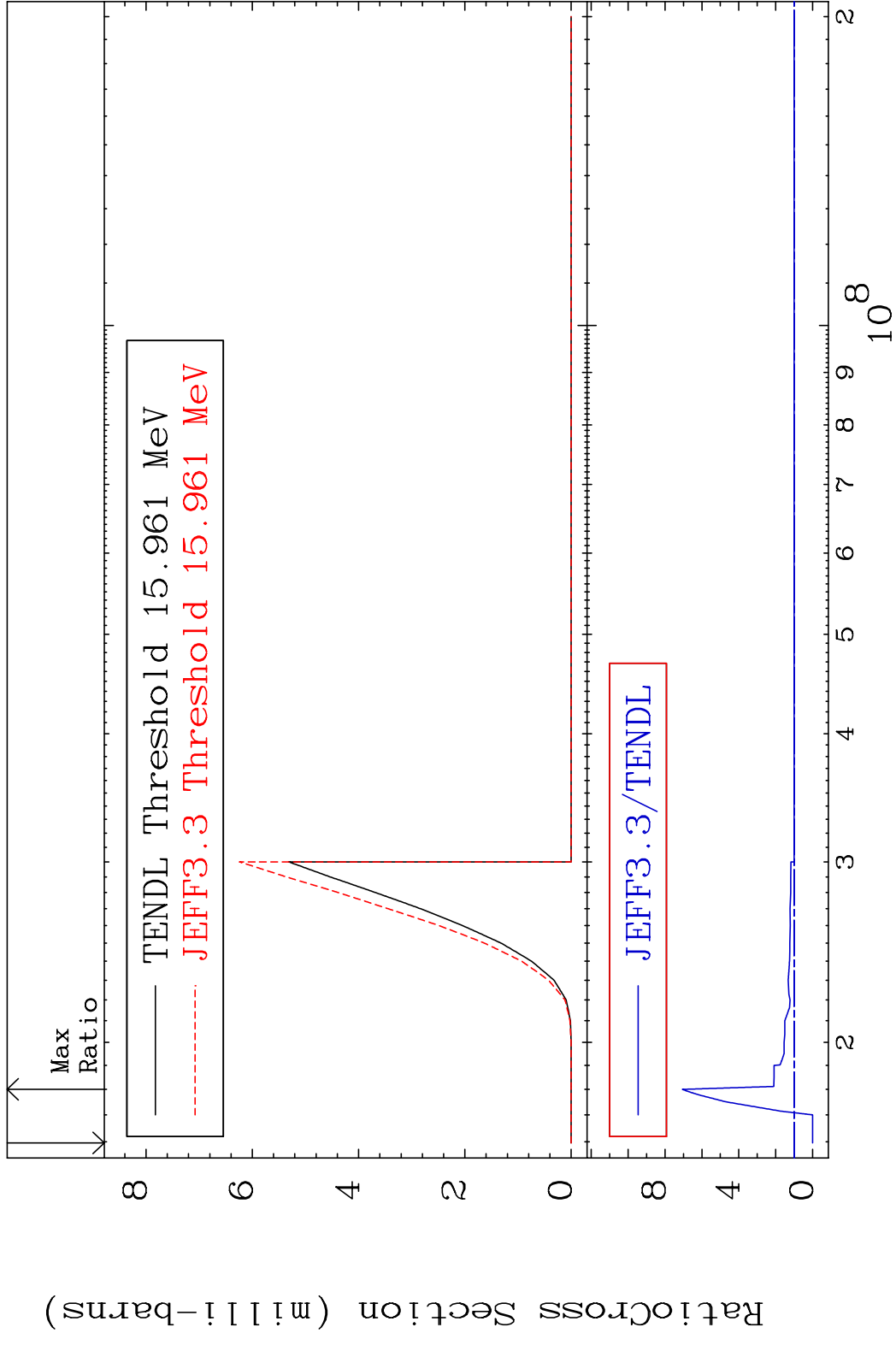


11 Incident Energy (eV) 40-Zr-95

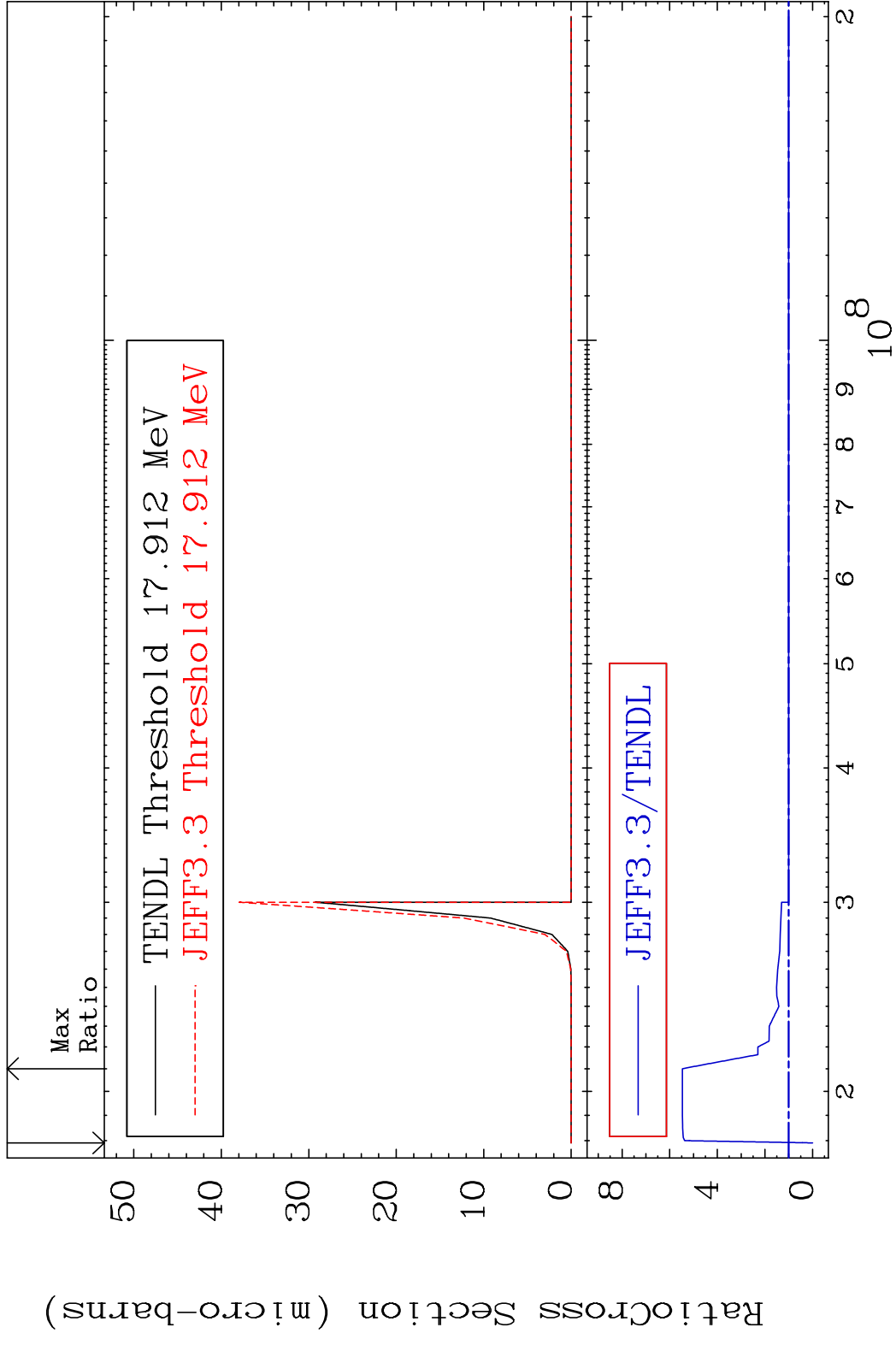
MAT 4040 (n, n') d 40-Zr-95
 Cross Section -100.0 To 169.0 %



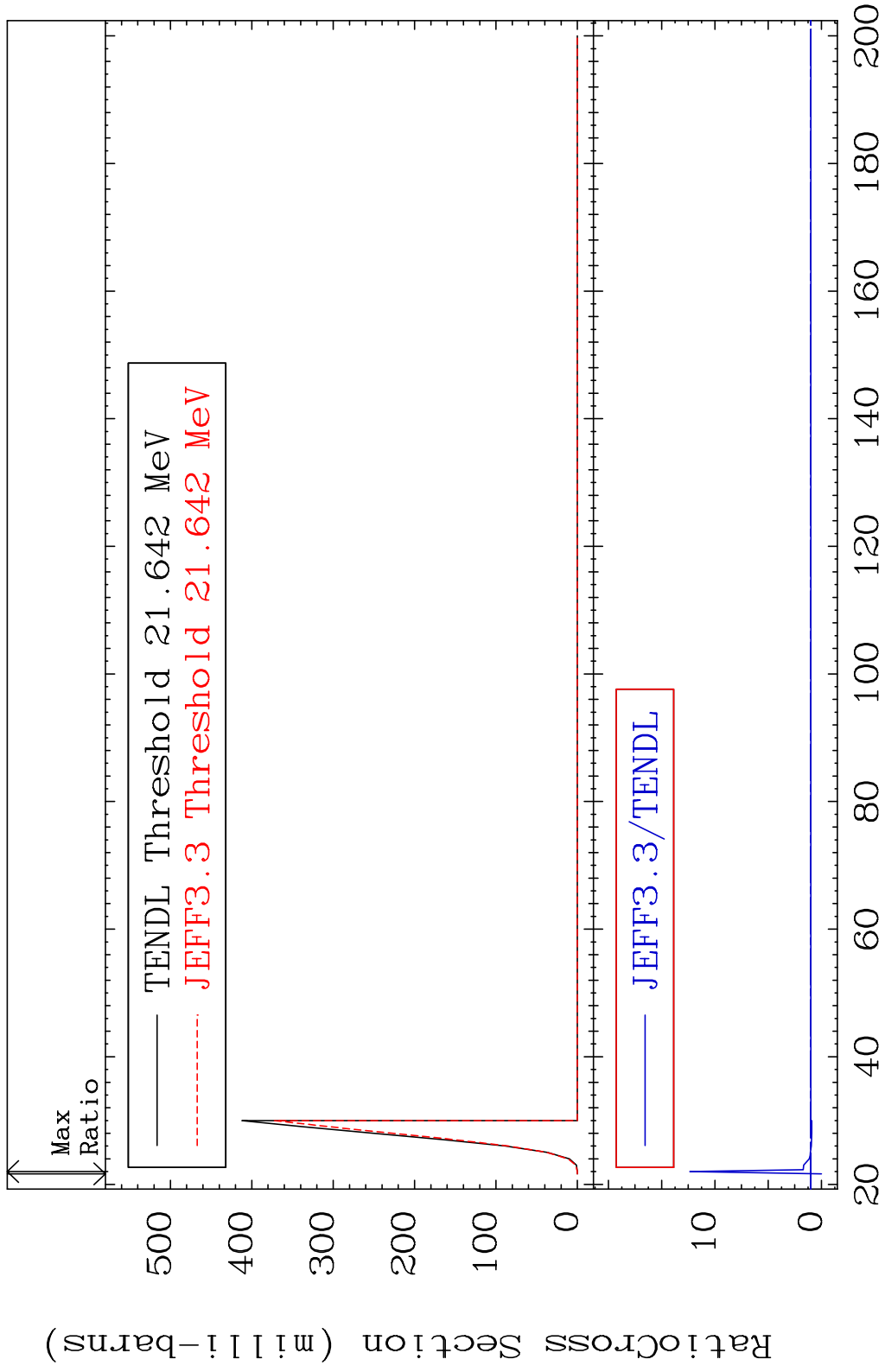
MAT 4040 (n, n') t 40-Zr-95
 Cross Section -100.0 To 606.1 %



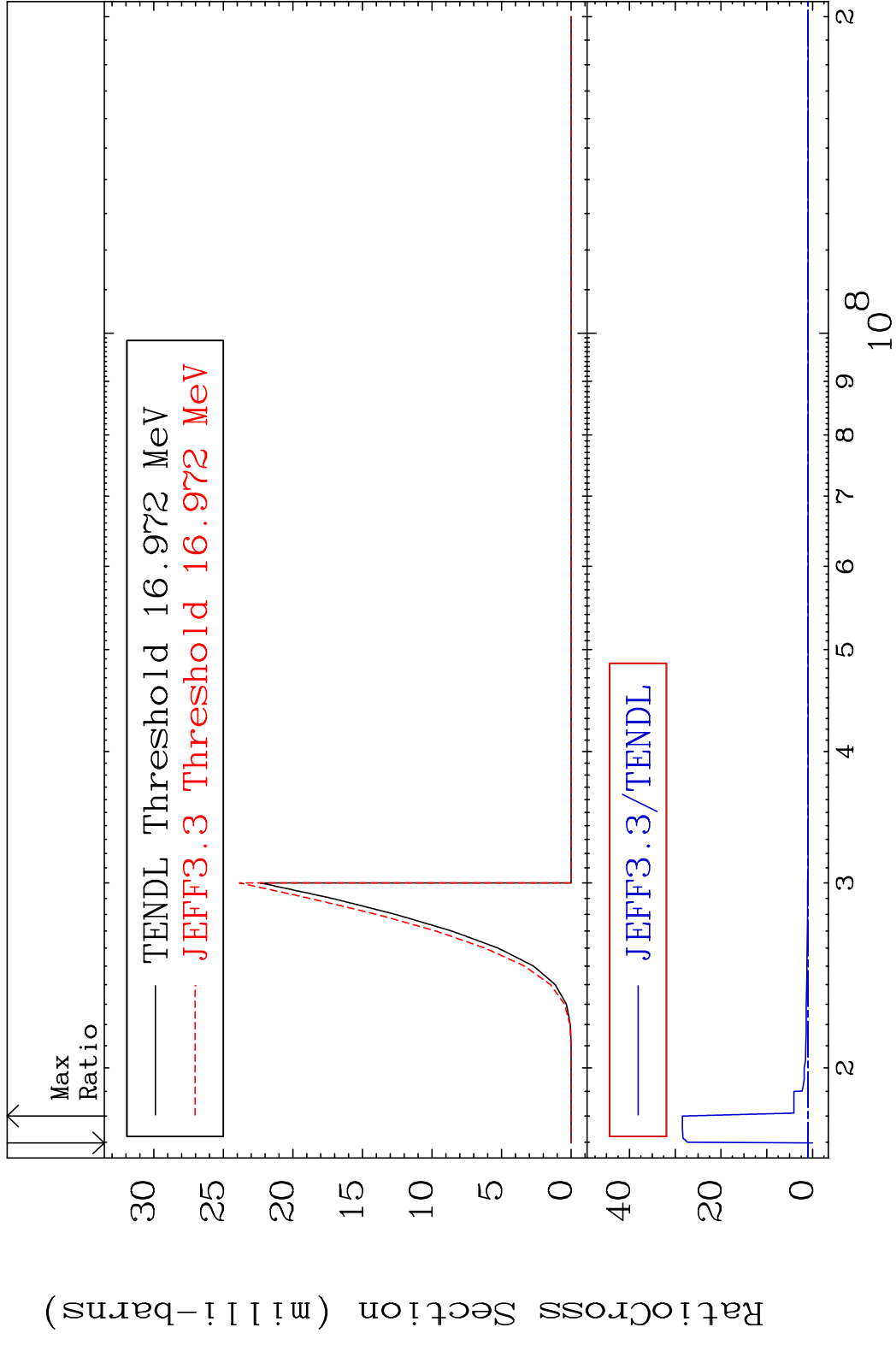
MAT 4040 (n,n') He-3 40-Zr-95
 Cross Section -100.0 To 446.9 %



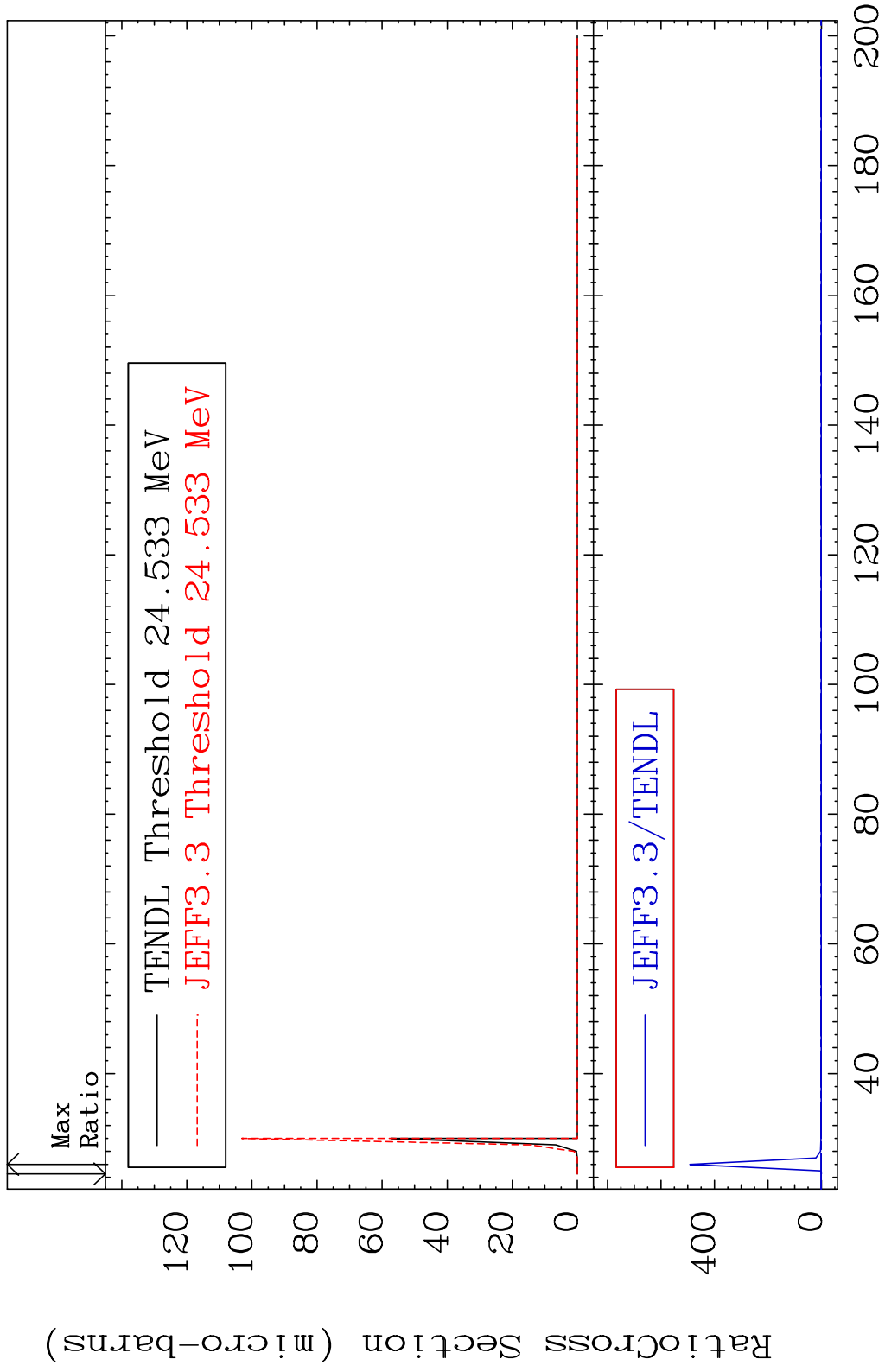
MAT 4040 (n,4n) 40-Zr-95
 Cross Section -100.0 To 1136. %



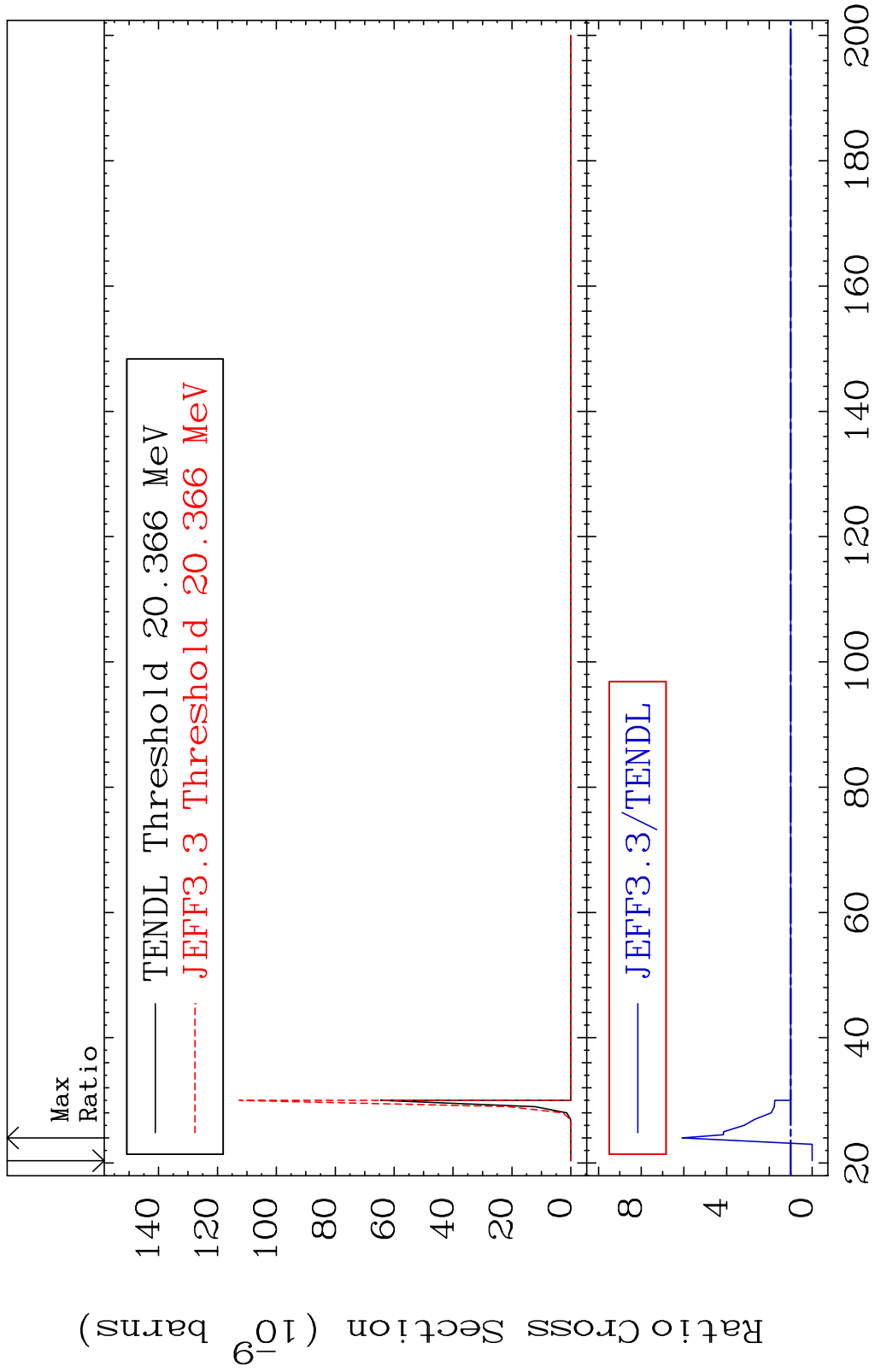
MAT 4040 (n,2n) p 40-Zr-95
 Cross Section -100.0 To 2744. %



MAT 4040 (n,3n) p 40-Zr-95
Cross Section -100.0 To 9999. %

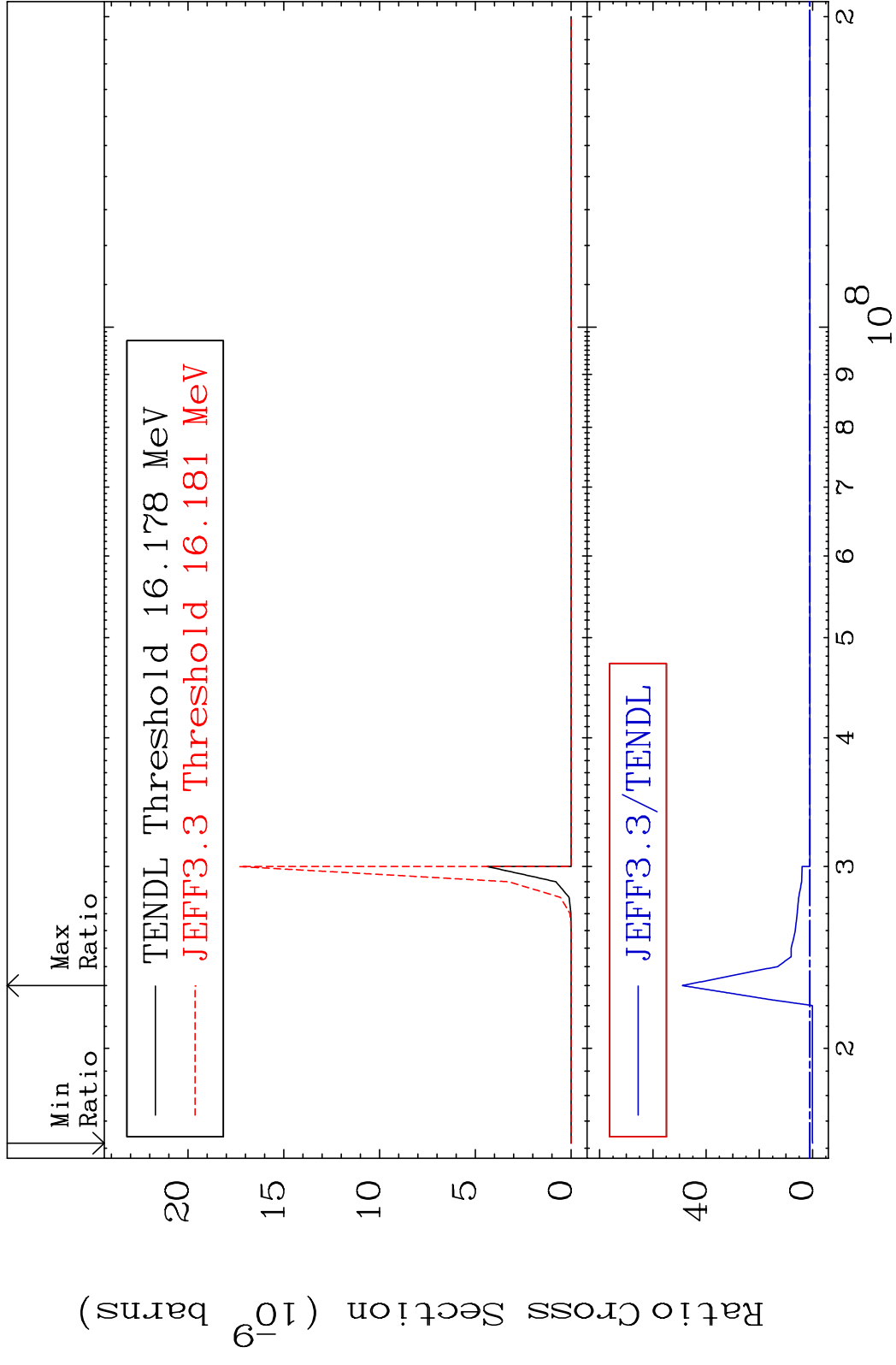


MAT 4040 (n,2n) p 40-Zr-95
 Cross Section -100.0 To 509.2 %

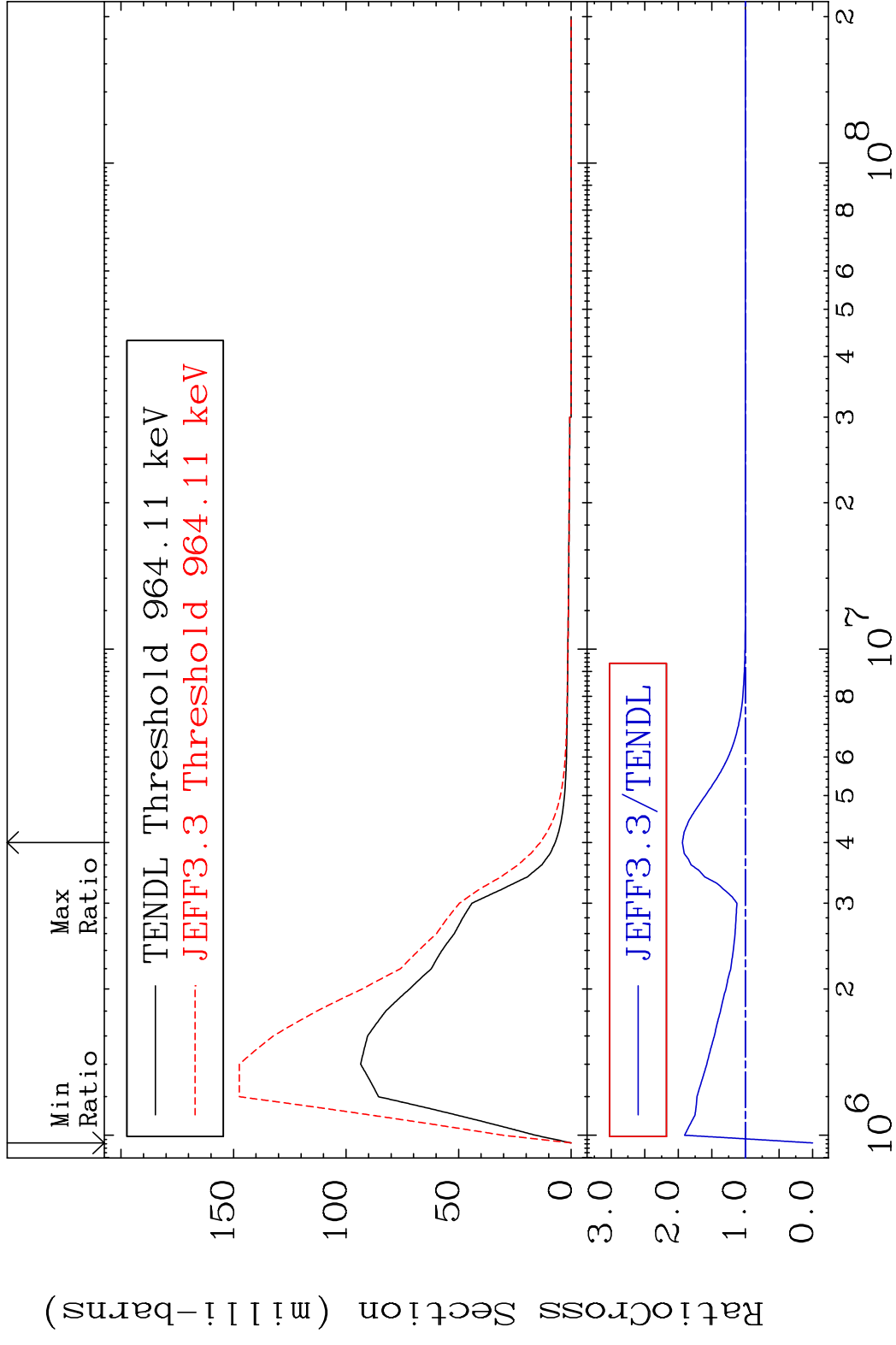


18 Incident Energy (MeV) 40-Zr-95

MAT 4040 (n, n') p α 40-Zr-95
 Cross Section -100.0 To 4793. %

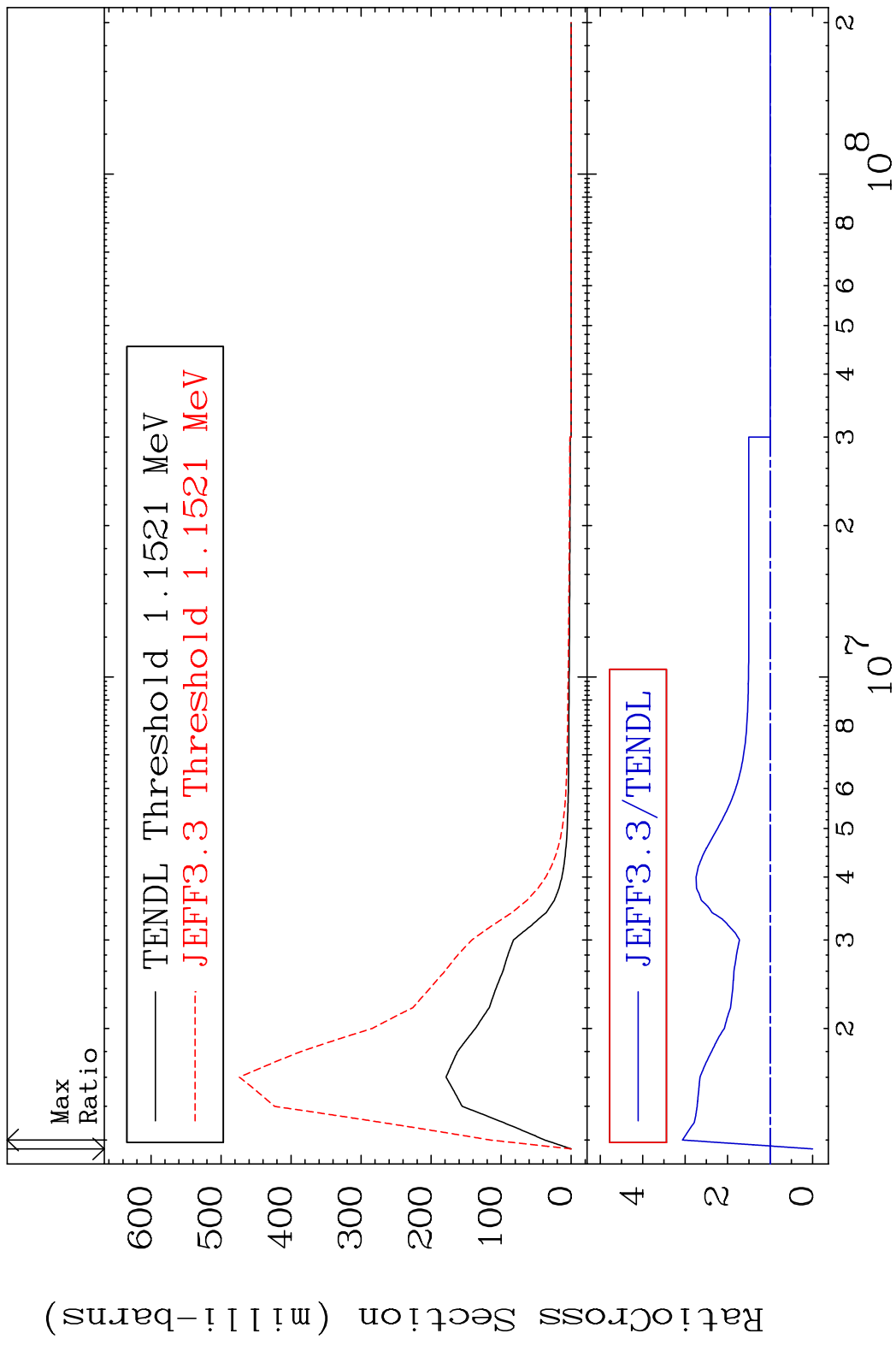


MAT 4040 MT= 51 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 93.97 %

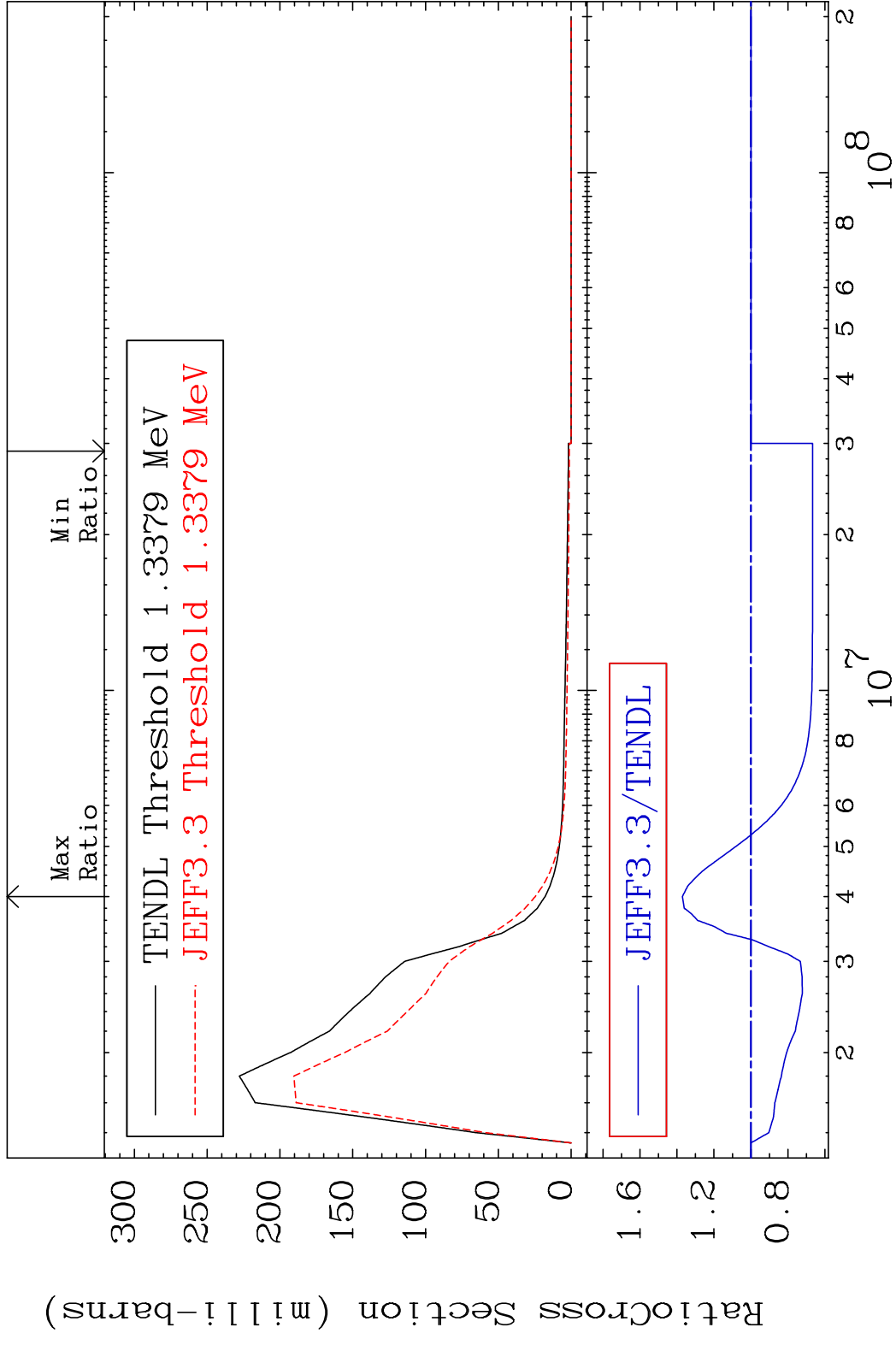


20 3.0 2.0 1.0 0.0 150 100 50 0 10⁶ 10⁷ 10⁸ 2 3 4 5 6 8

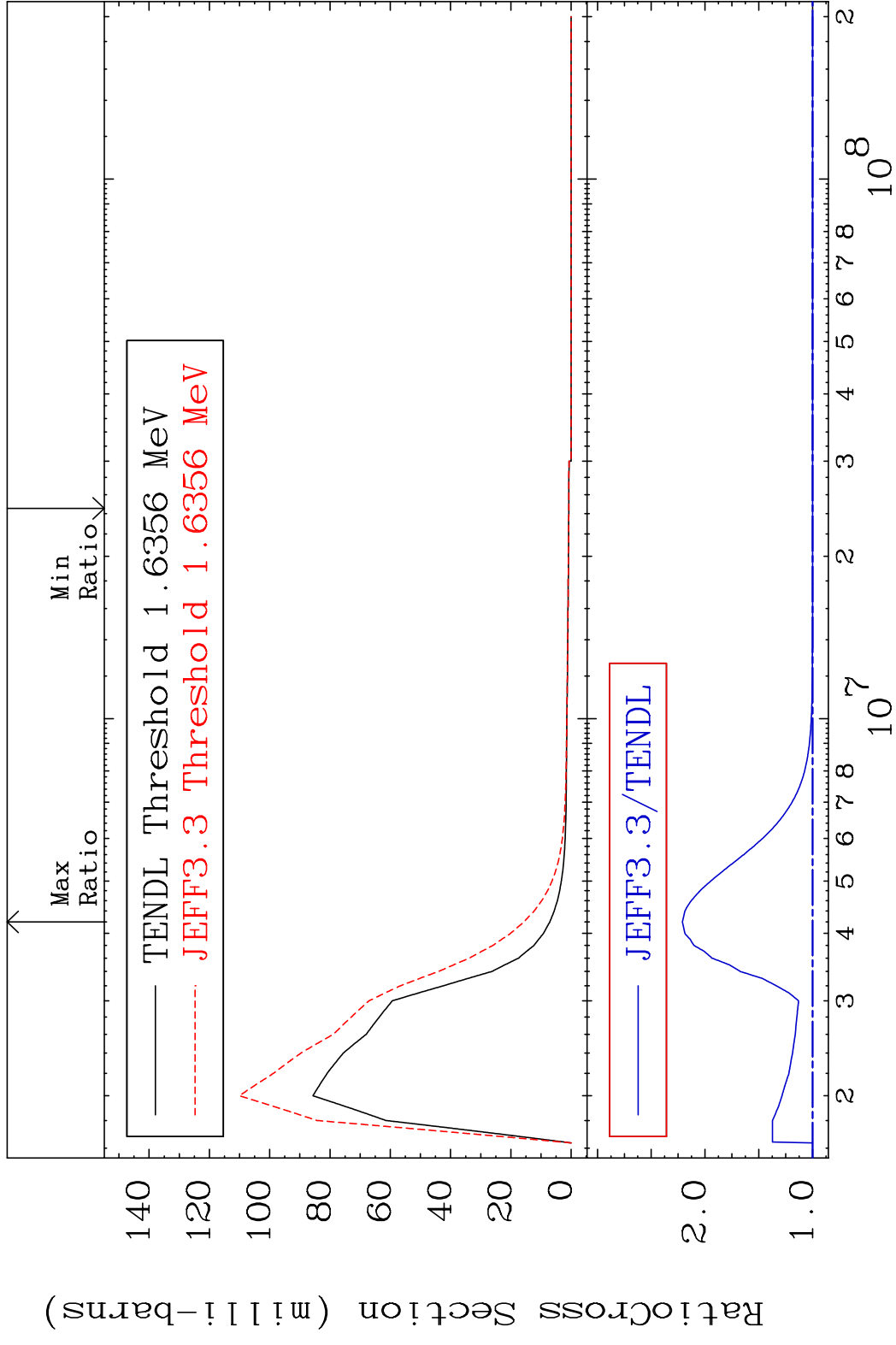
MAT 4040 MT= 52 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 206.7 %



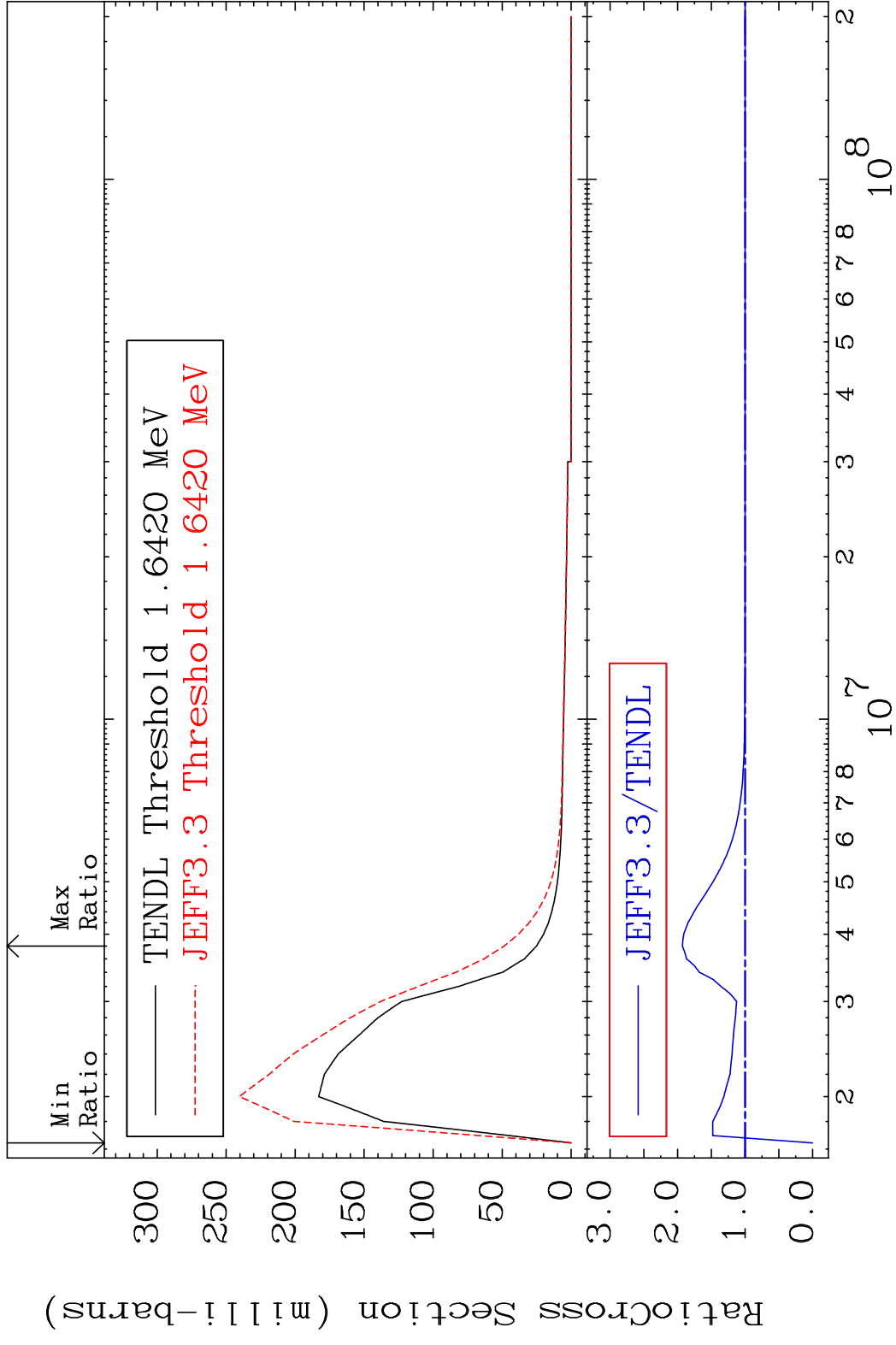
MAT 4040 MT= 53 (n, n') Level 40-Zr-95
 Cross Section -33.35 To 37.11 %



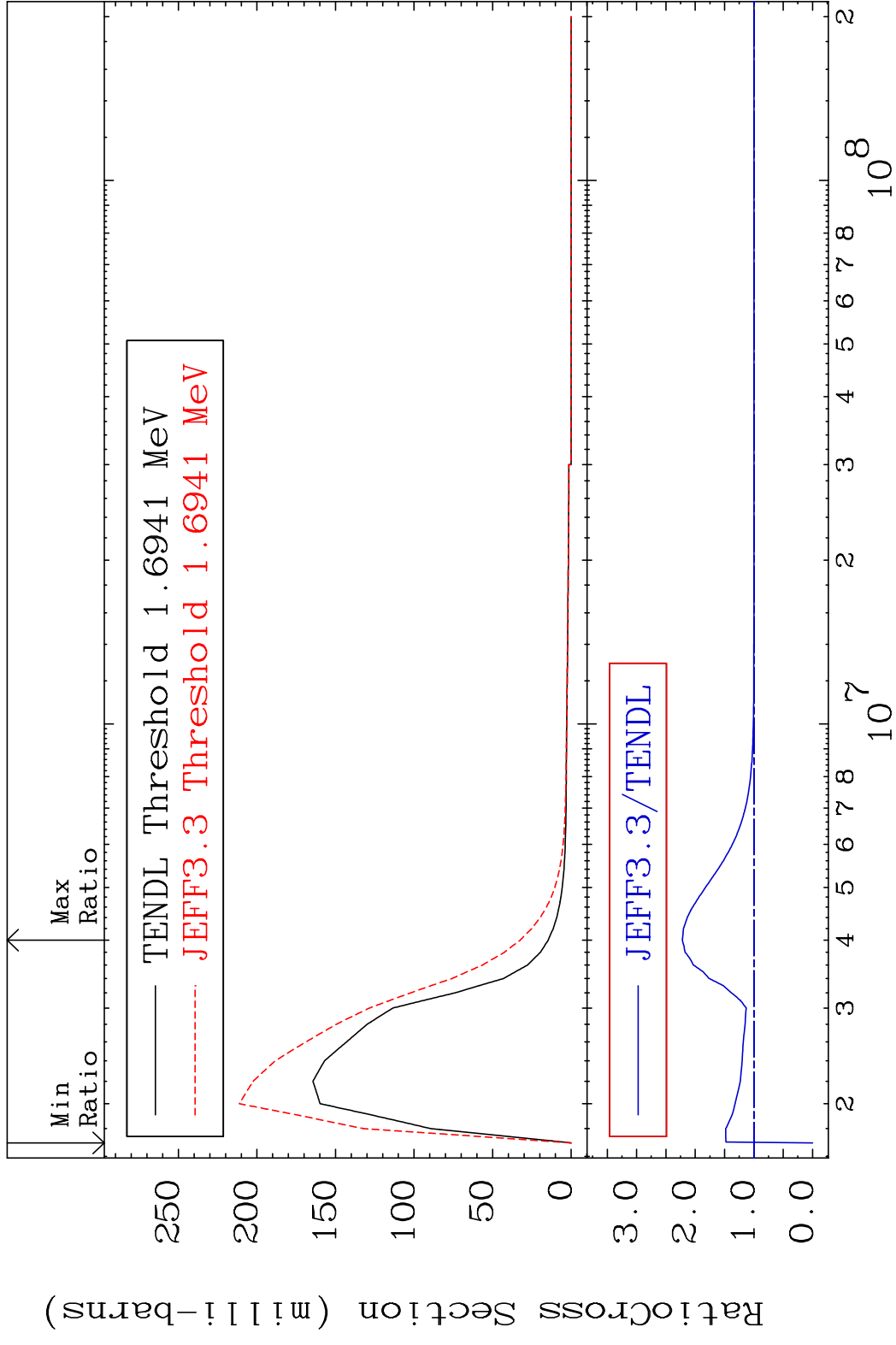
MAT 4040 MT= 54 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 121.1 %



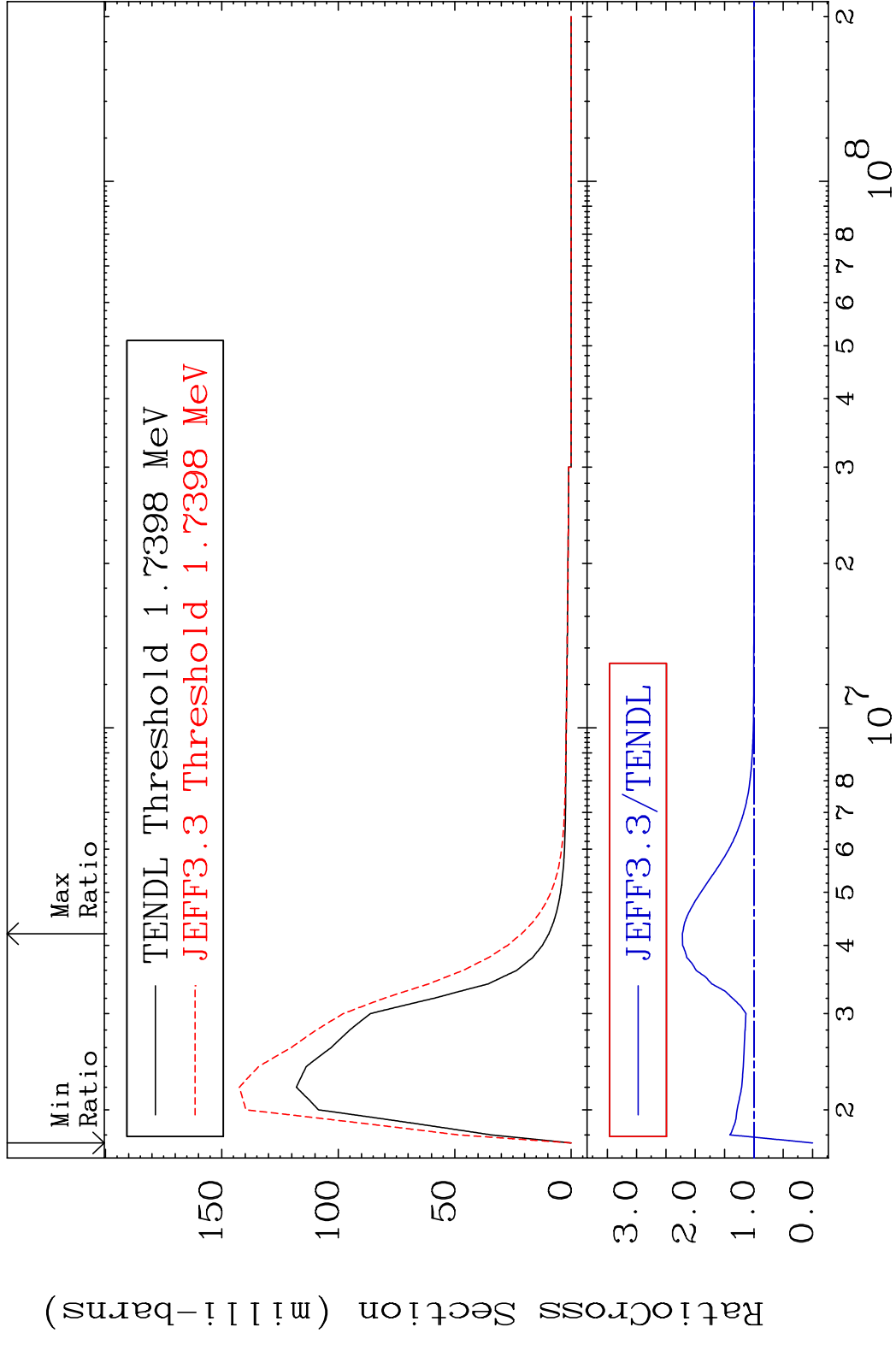
MAT 4040 MT= 55 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 92.90 %



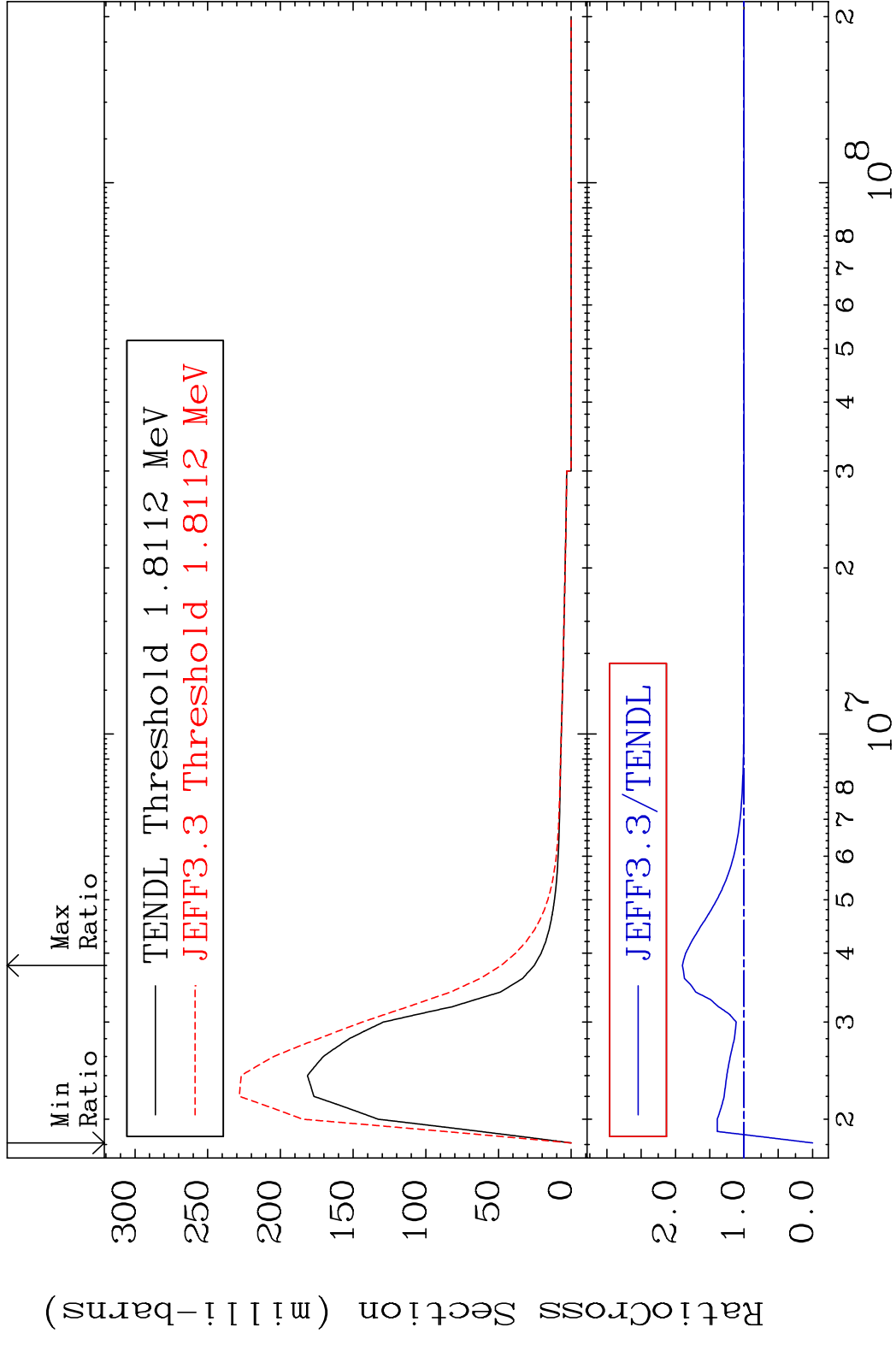
MAT 4040 MT= 56 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 122.0 %



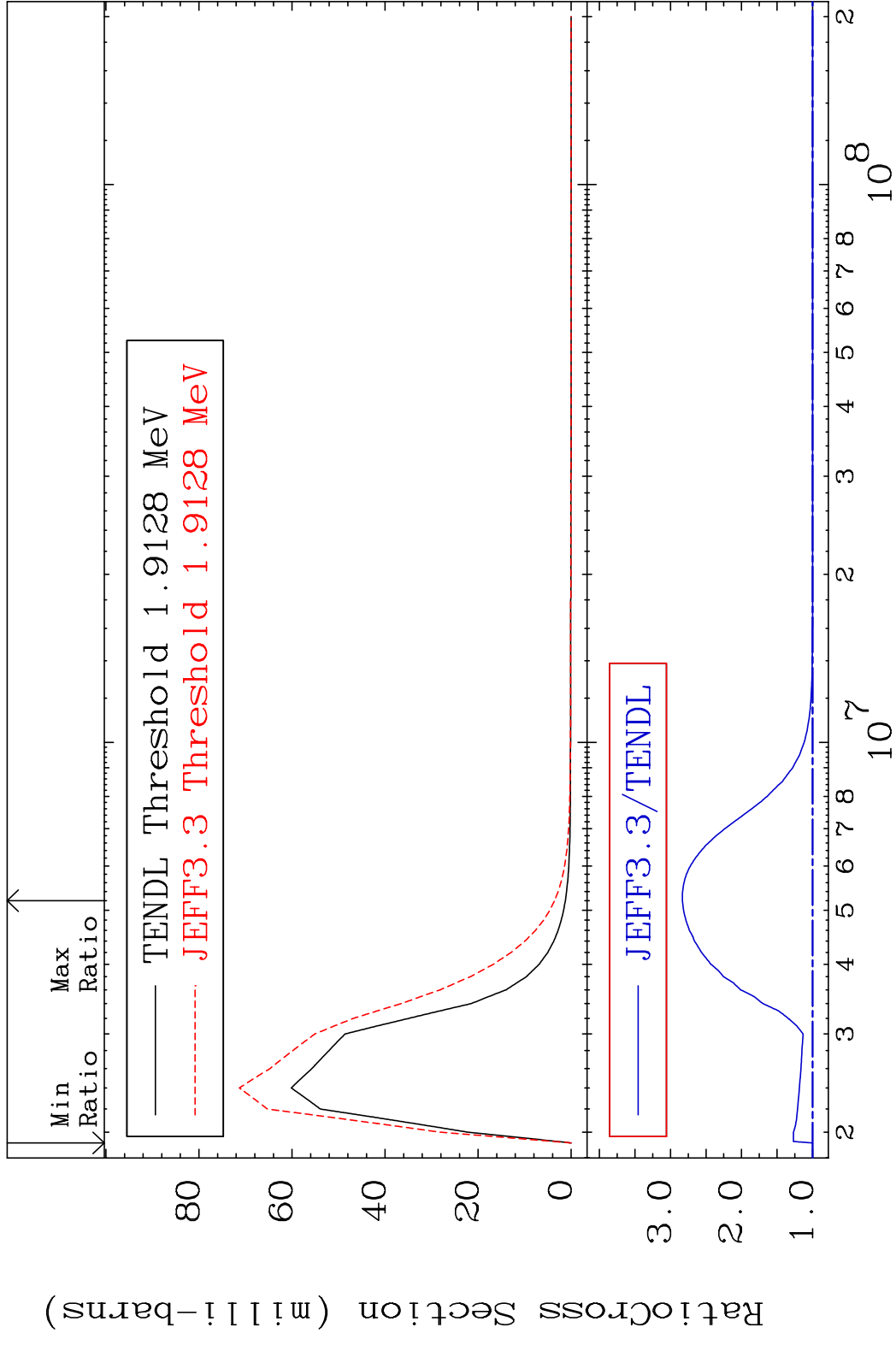
MAT 4040 MT= 57 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 122.0 %



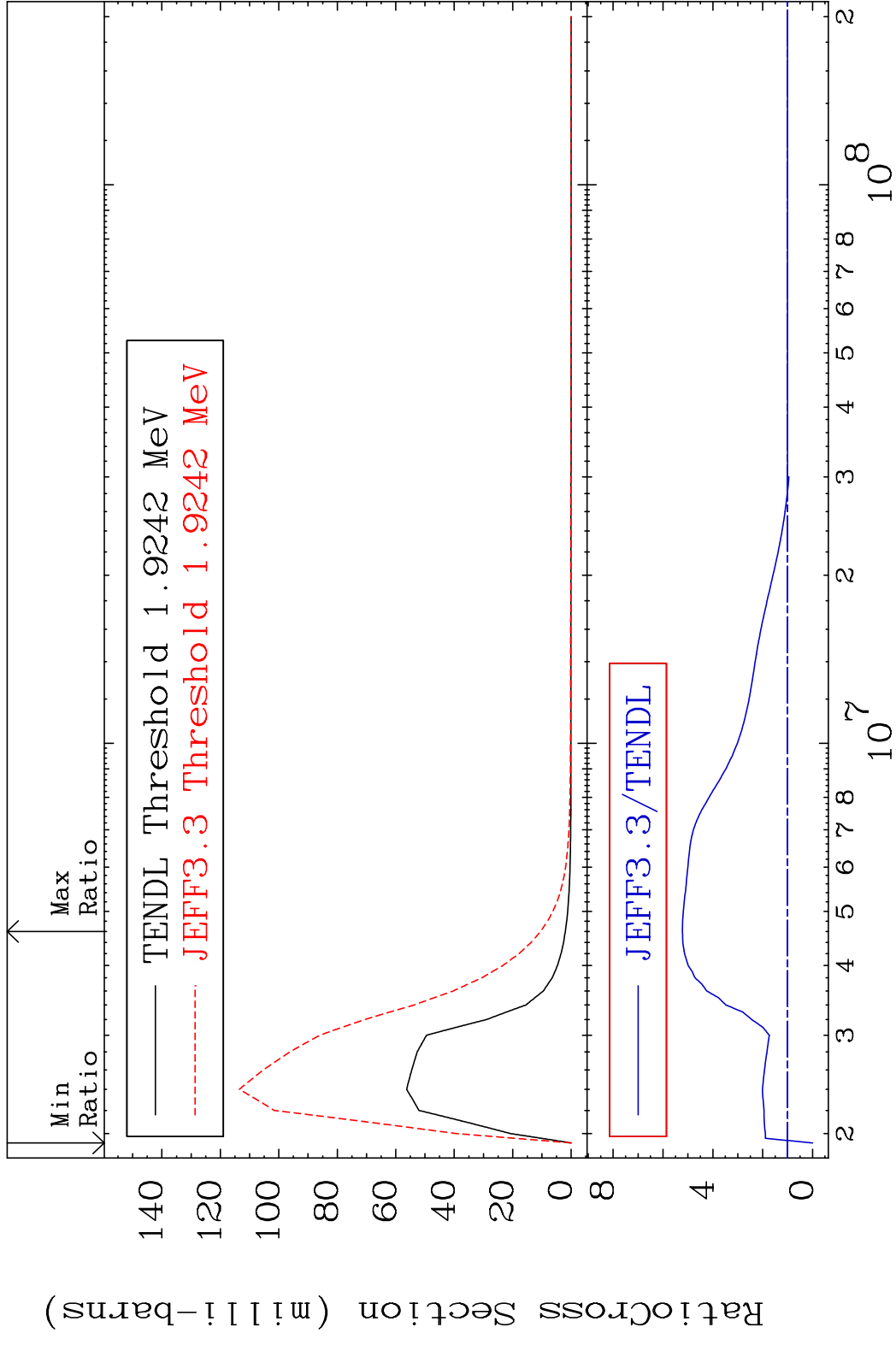
MAT 4040 MT= 58 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 89.93 %



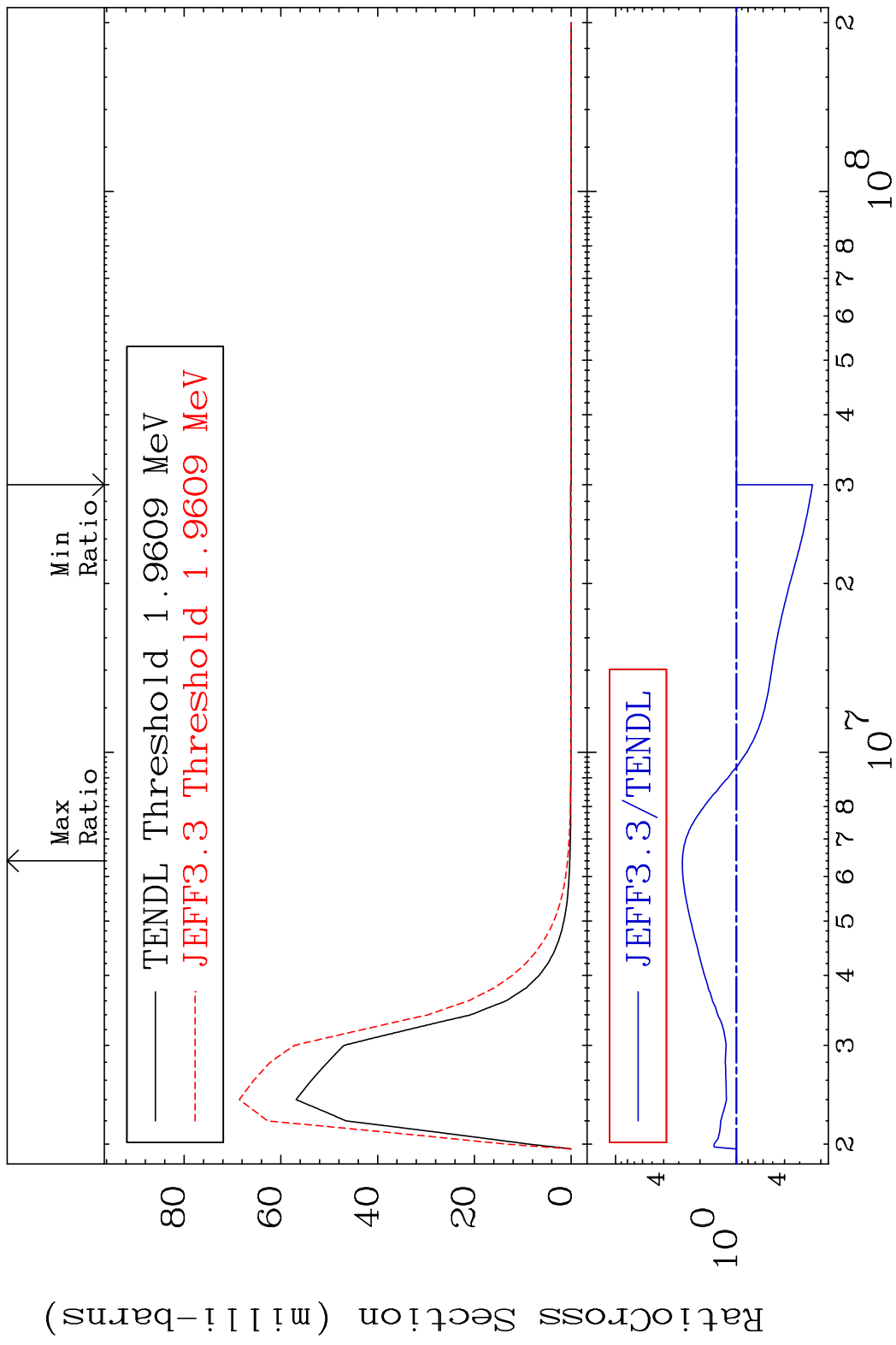
MAT 4040 MT= 59 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 183.3 %



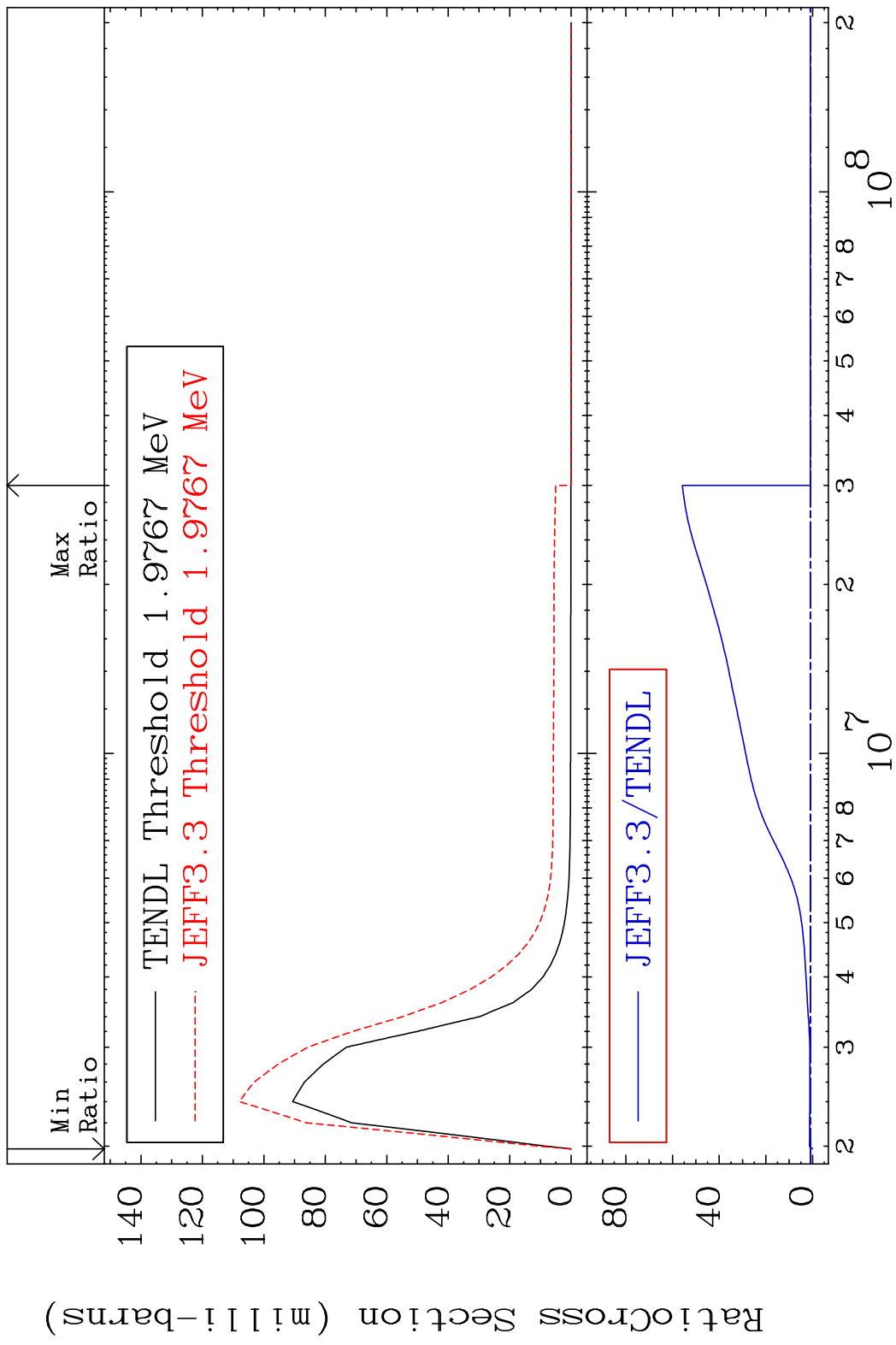
MAT 4040 MT= 60 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 422.3 %



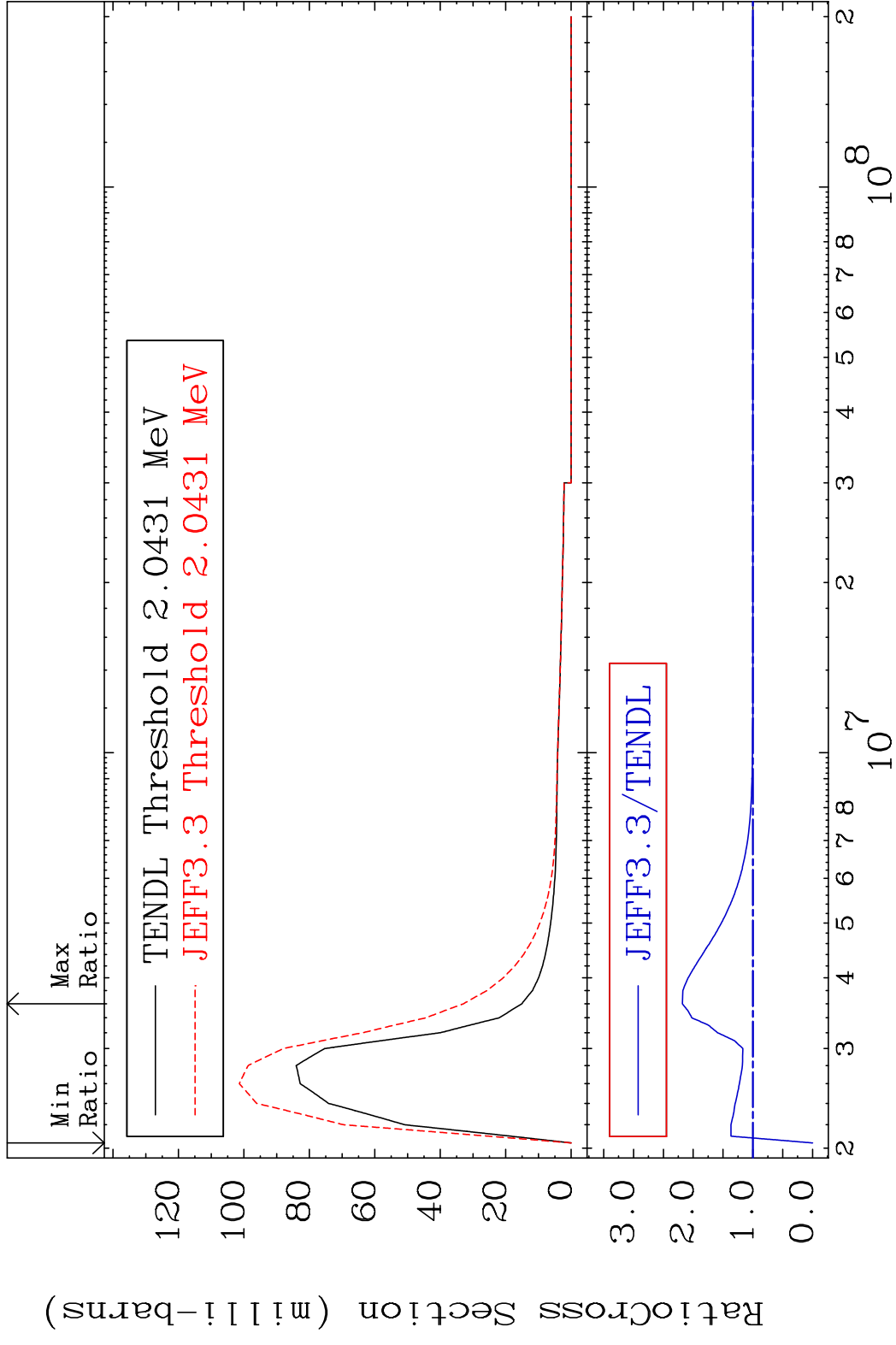
MAT 4040 MT= 61 (n, n') Level 40-Zr-95
 Cross Section -76.59 To 180.3 %



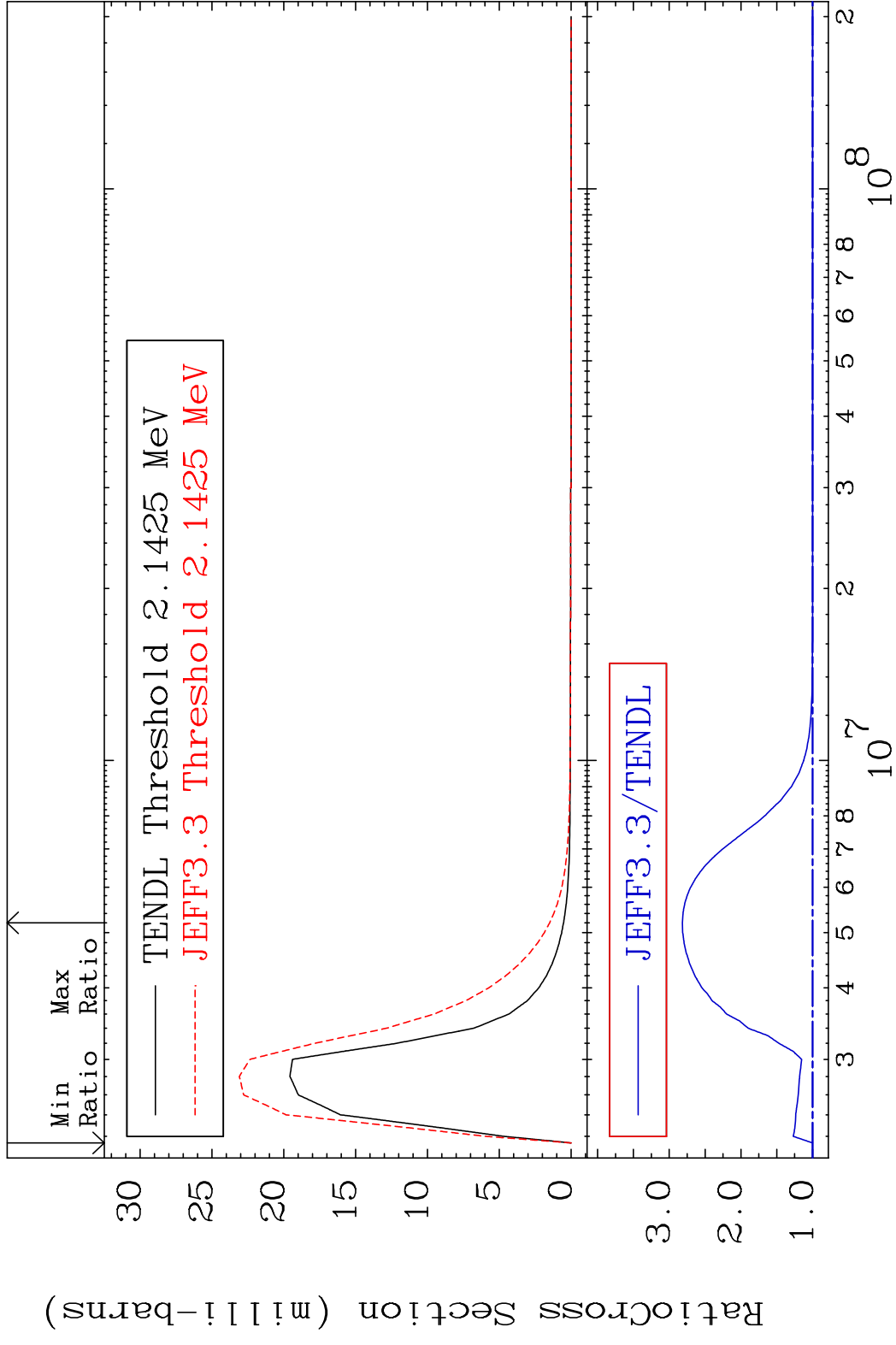
MAT 4040 MT= 62 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 5478. %



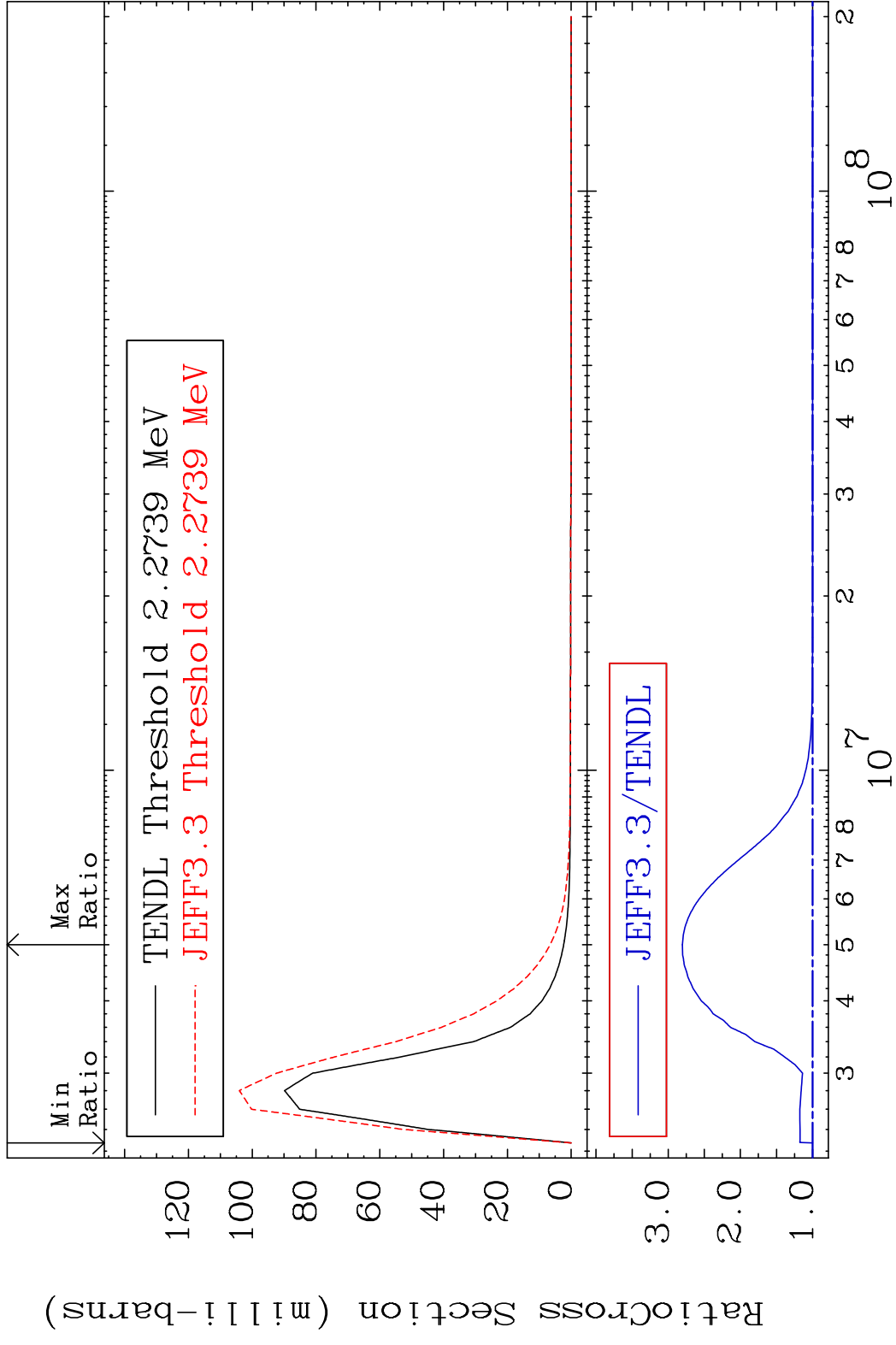
MAT 4040 MT= 63 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 118.2 %



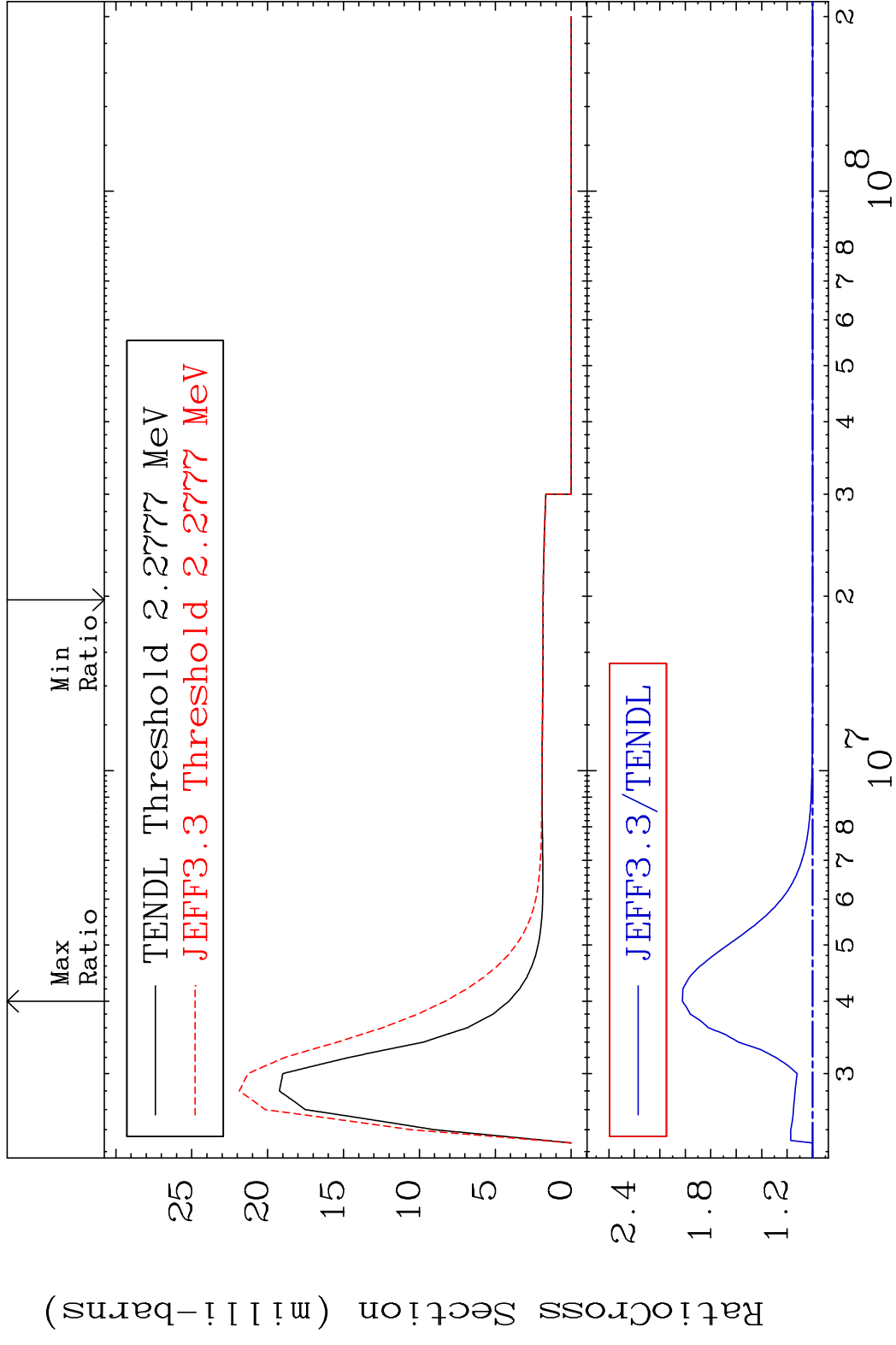
MAT 4040 MT= 64 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 181.7 %



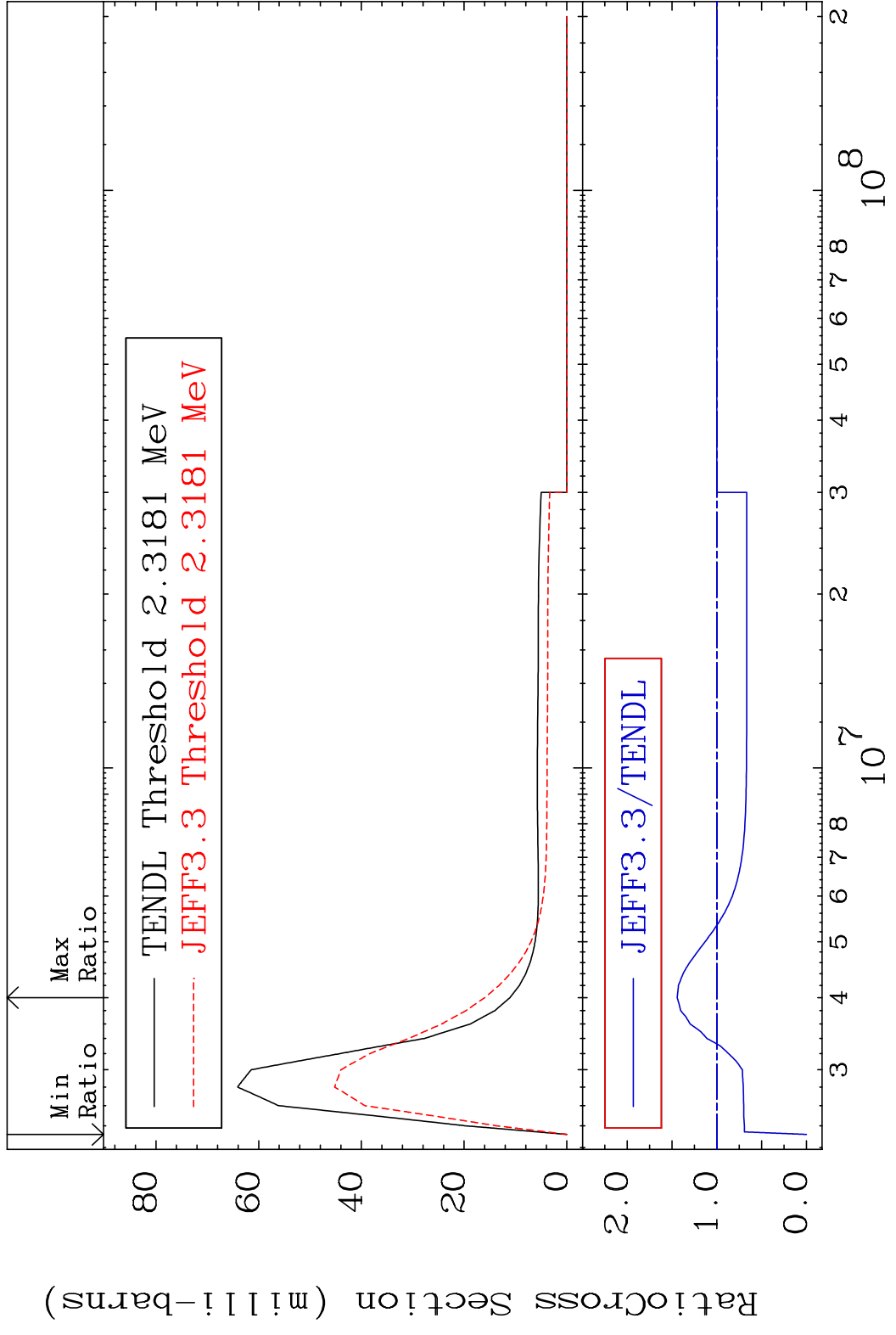
MAT 4040 MT= 65 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 180.4 %



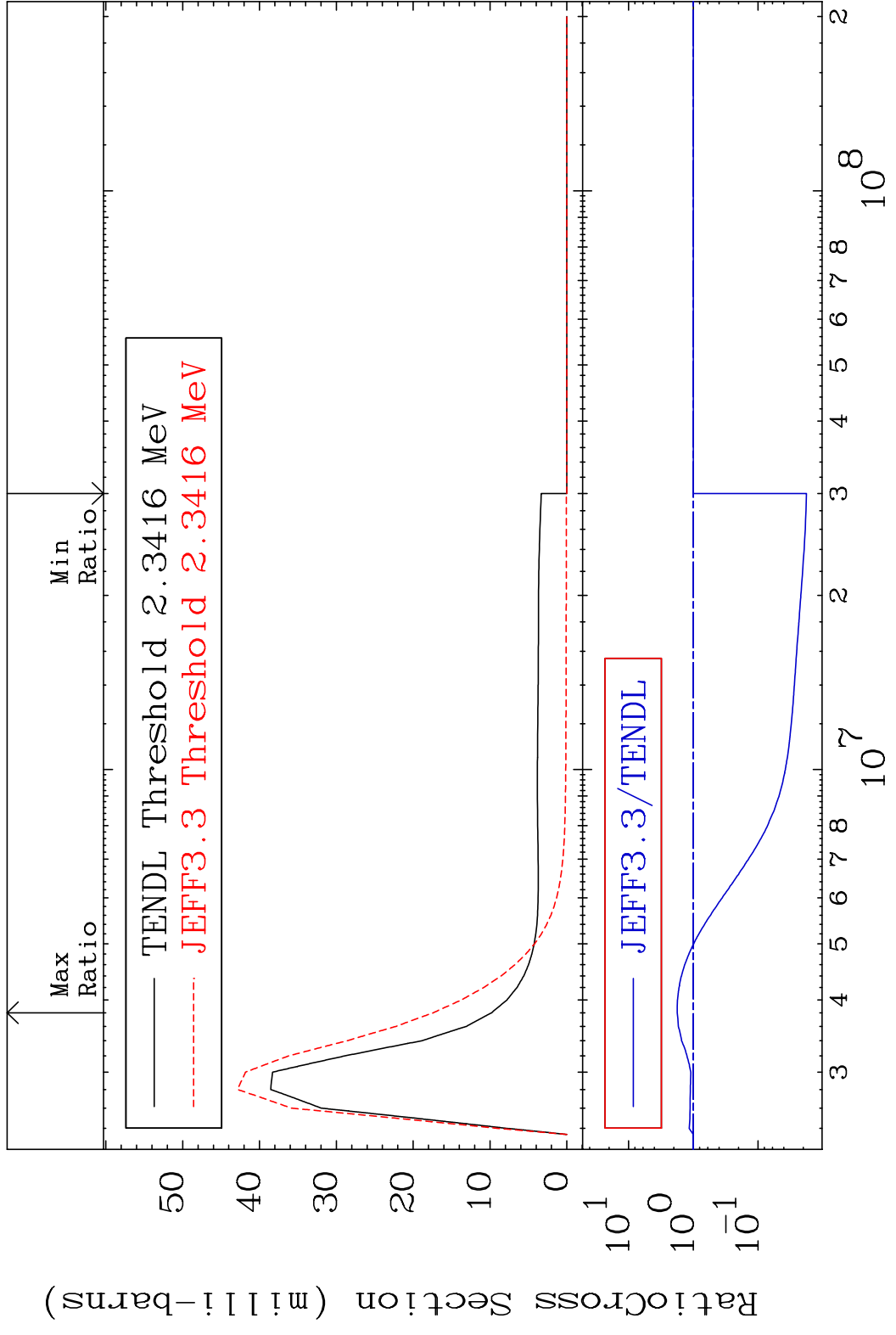
MAT 4040 MT= 66 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 102.3 %



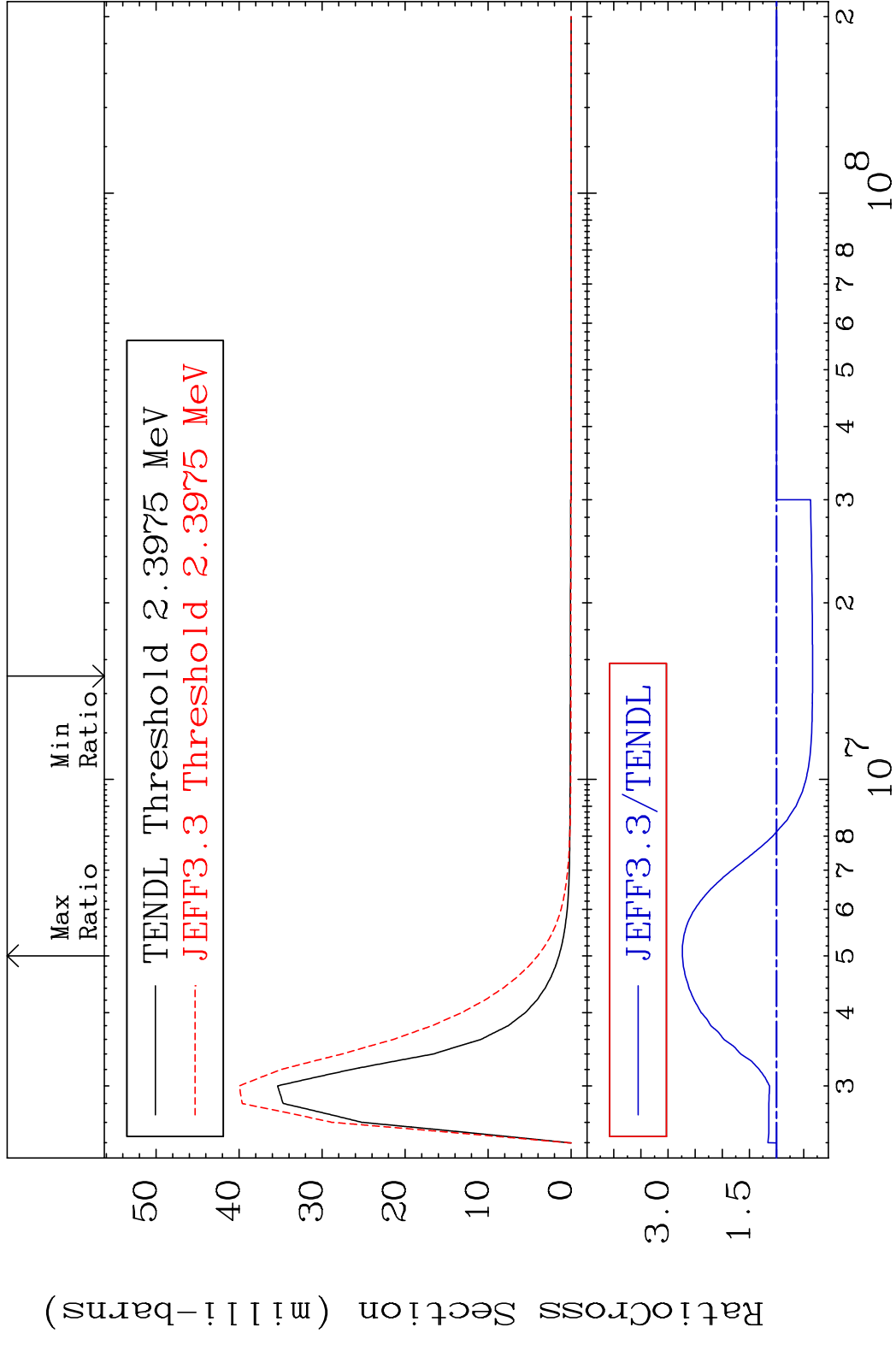
MAT 4040 MT= 67 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 44.23 %



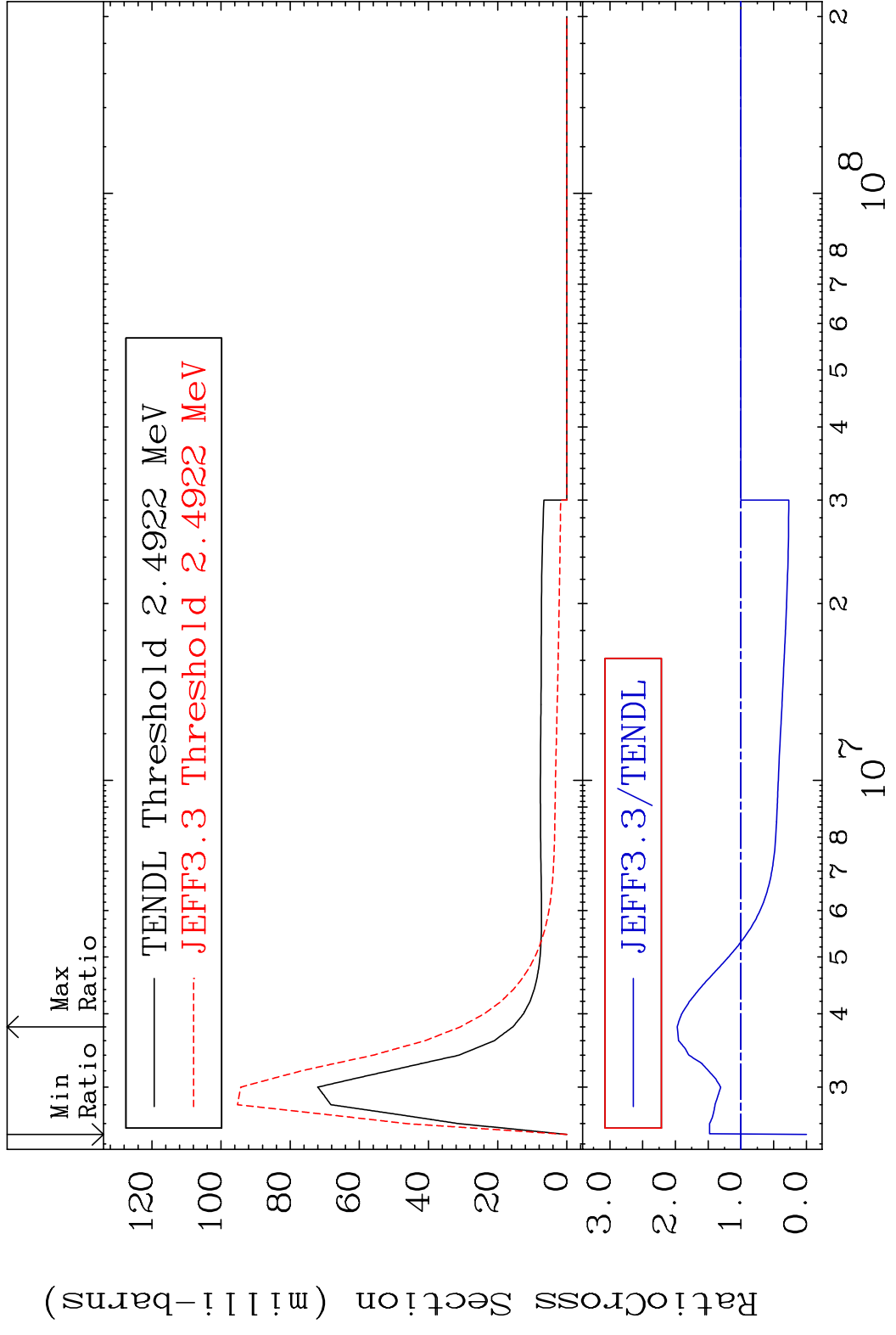
MAT 4040 MT= 68 (n, n') Level 40-Zr-95
 Cross Section -98.21 To 77.50 %



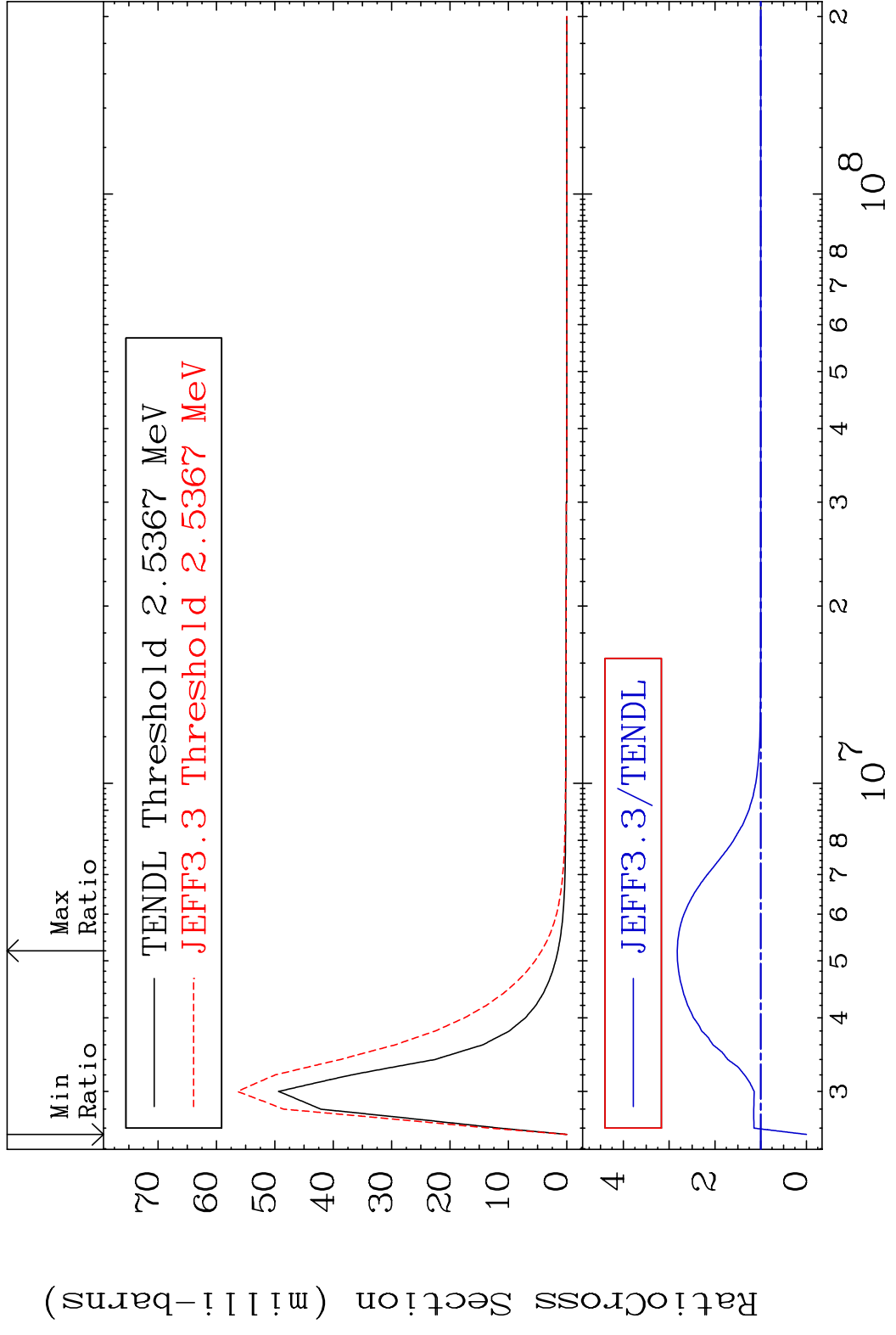
MAT 4040 MT= 69 (n, n') Level 40-Zr-95
 Cross Section -66.37 To 173.6 %



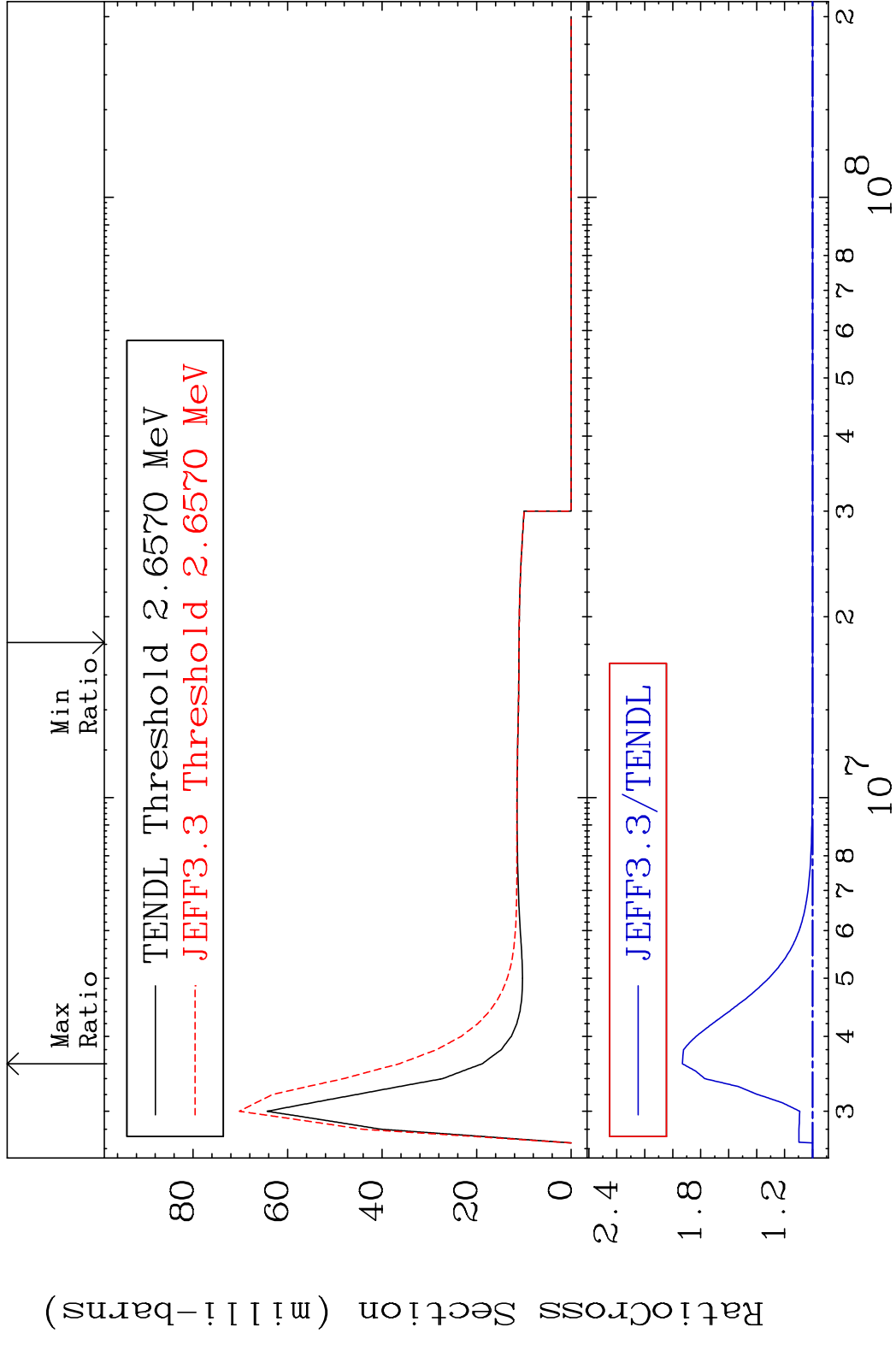
MAT 4040 MT= 70 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 97.33 %



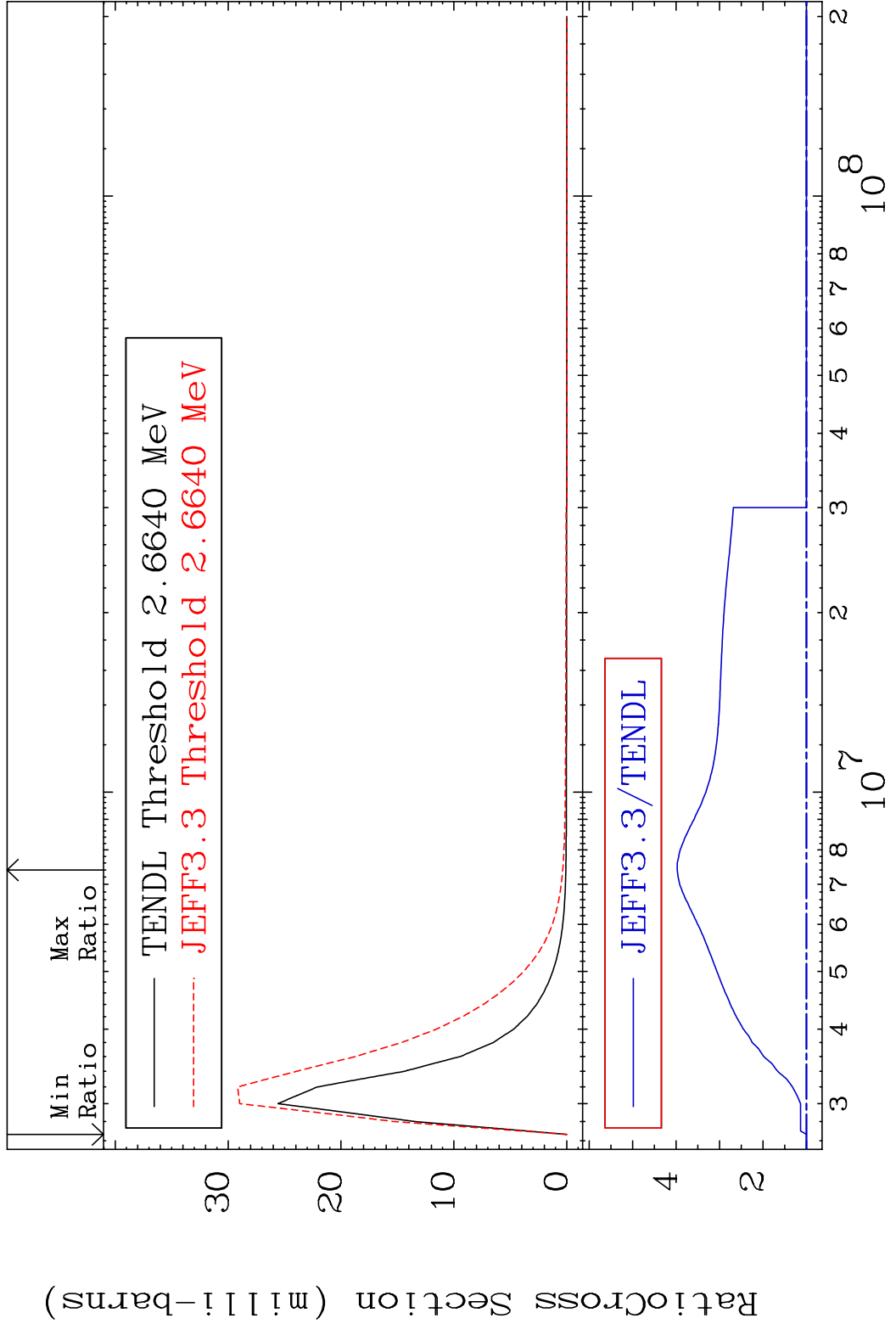
MAT 4040 MT= 71 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 182.5 %



MAT 4040 MT= 72 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 93.11 %

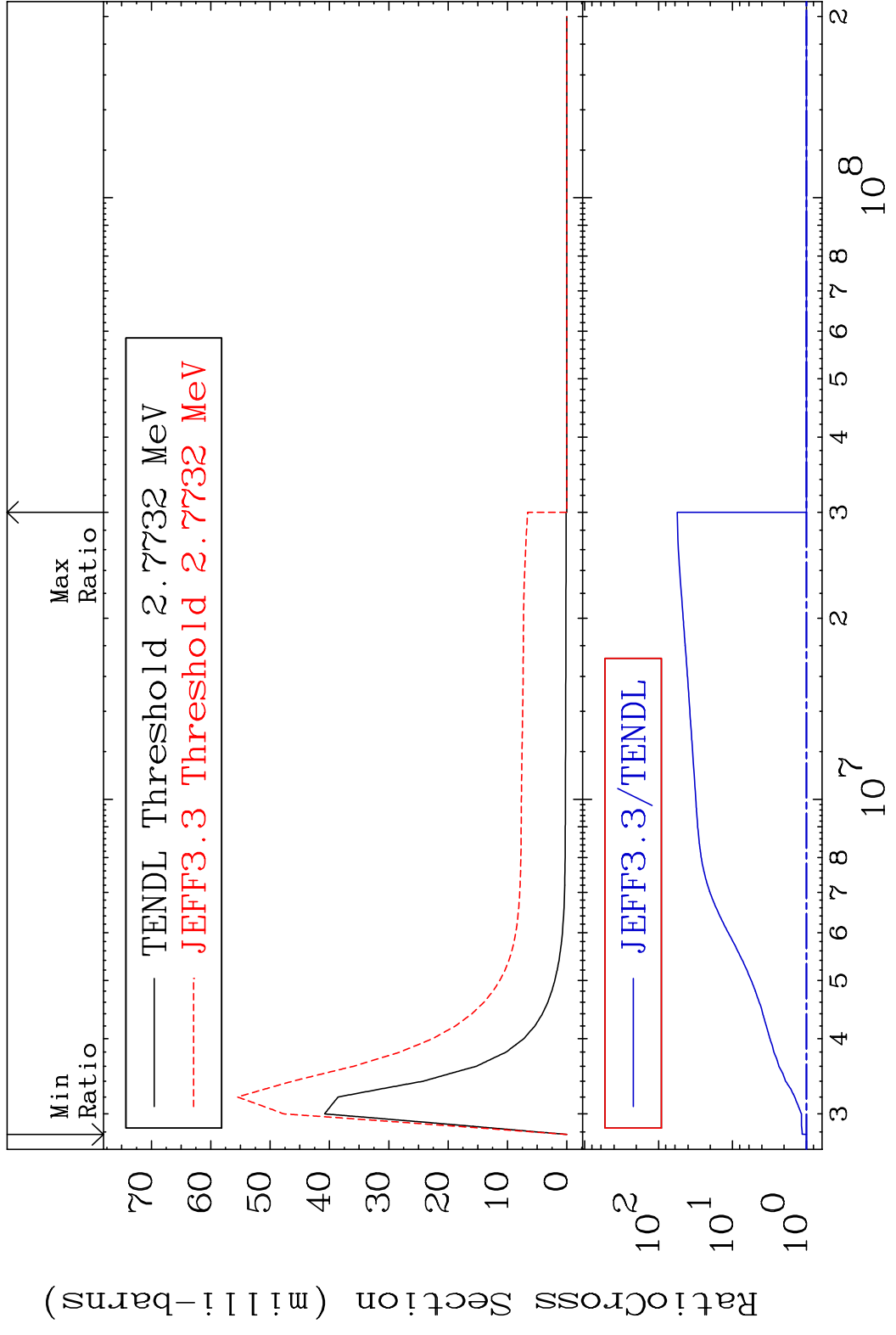


MAT 4040 MT= 73 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 297.5 %

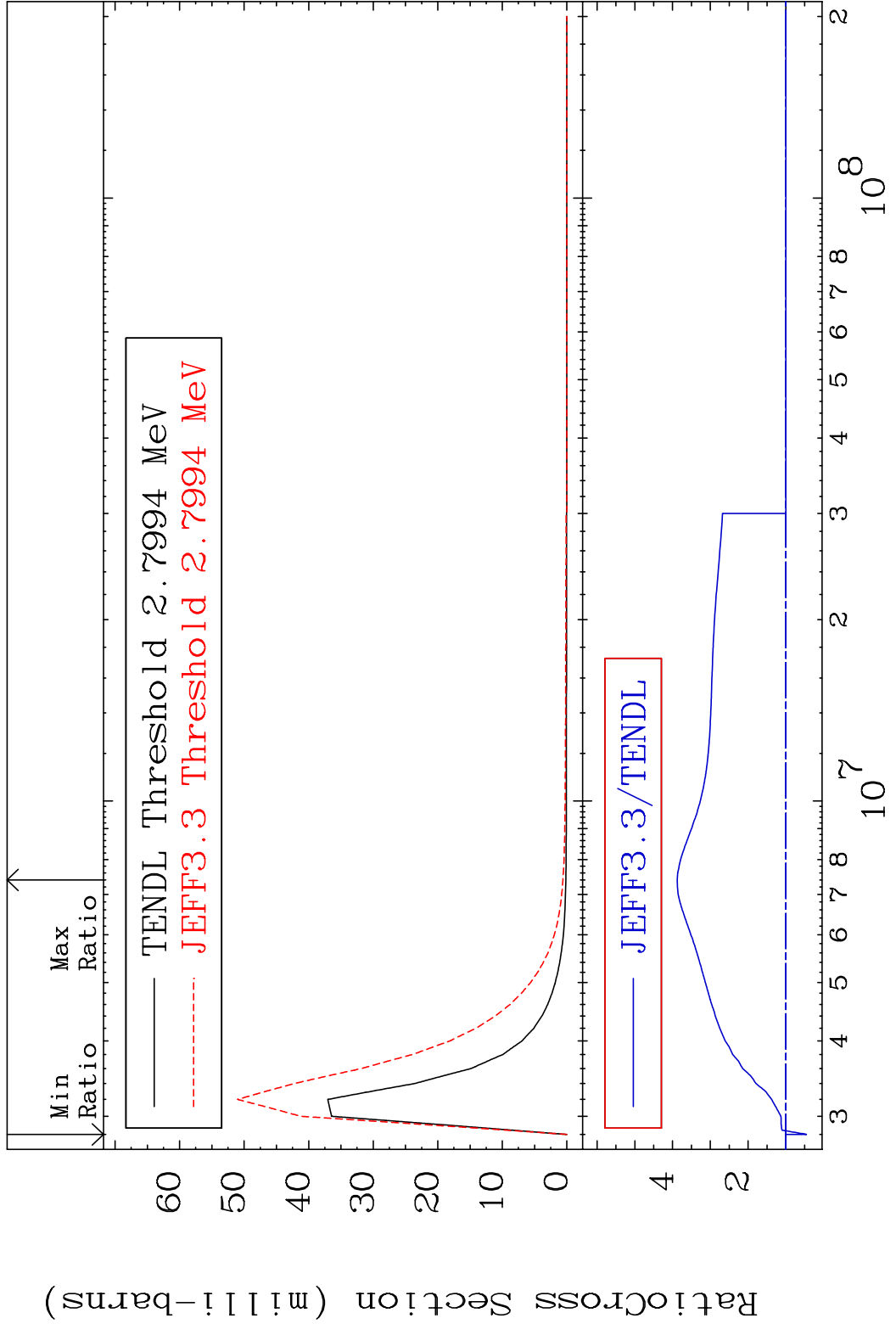


42 Incident Energy (eV) 40-Zr-95

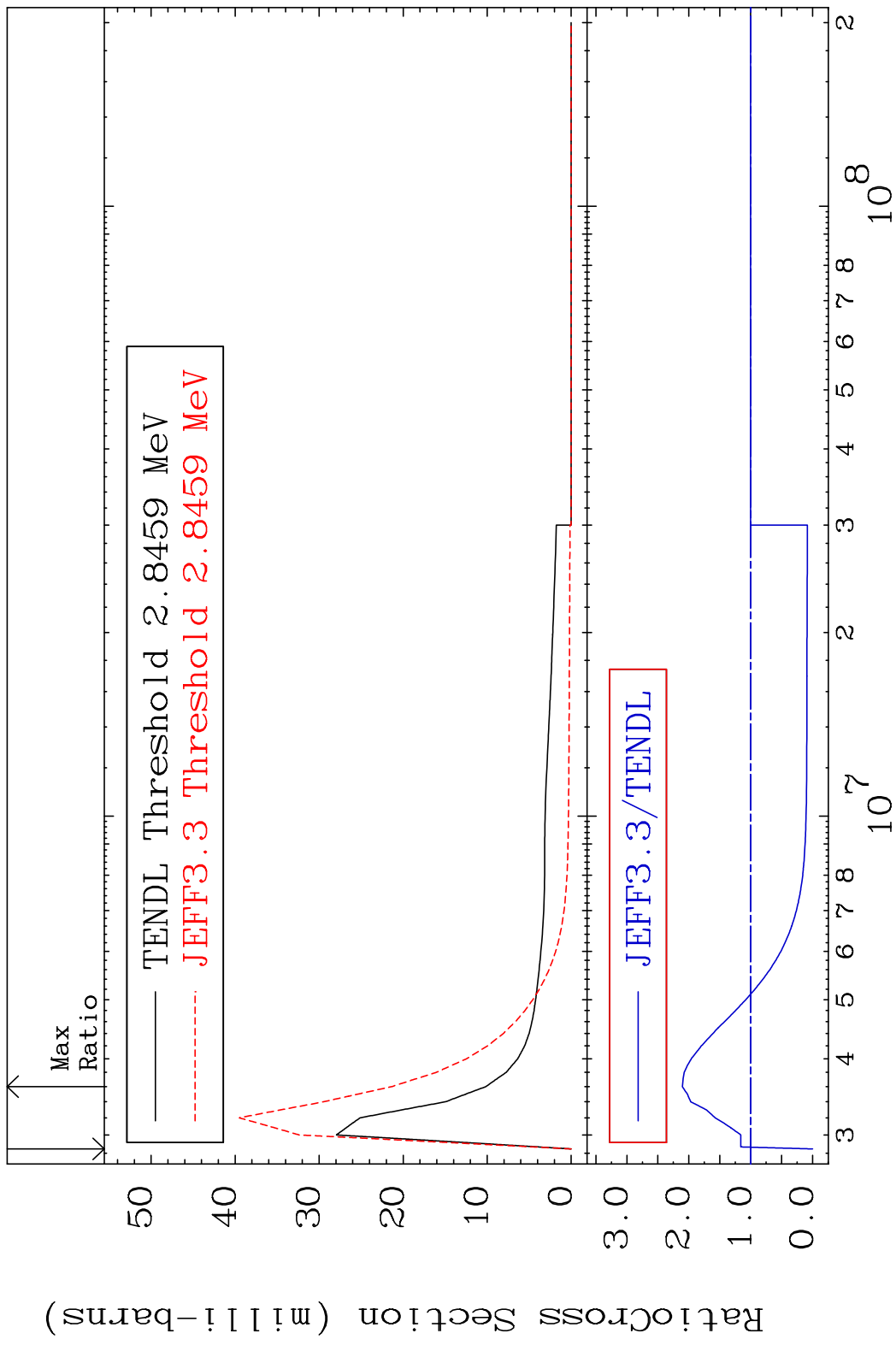
MAT 4040 MT= 74 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 5498. %



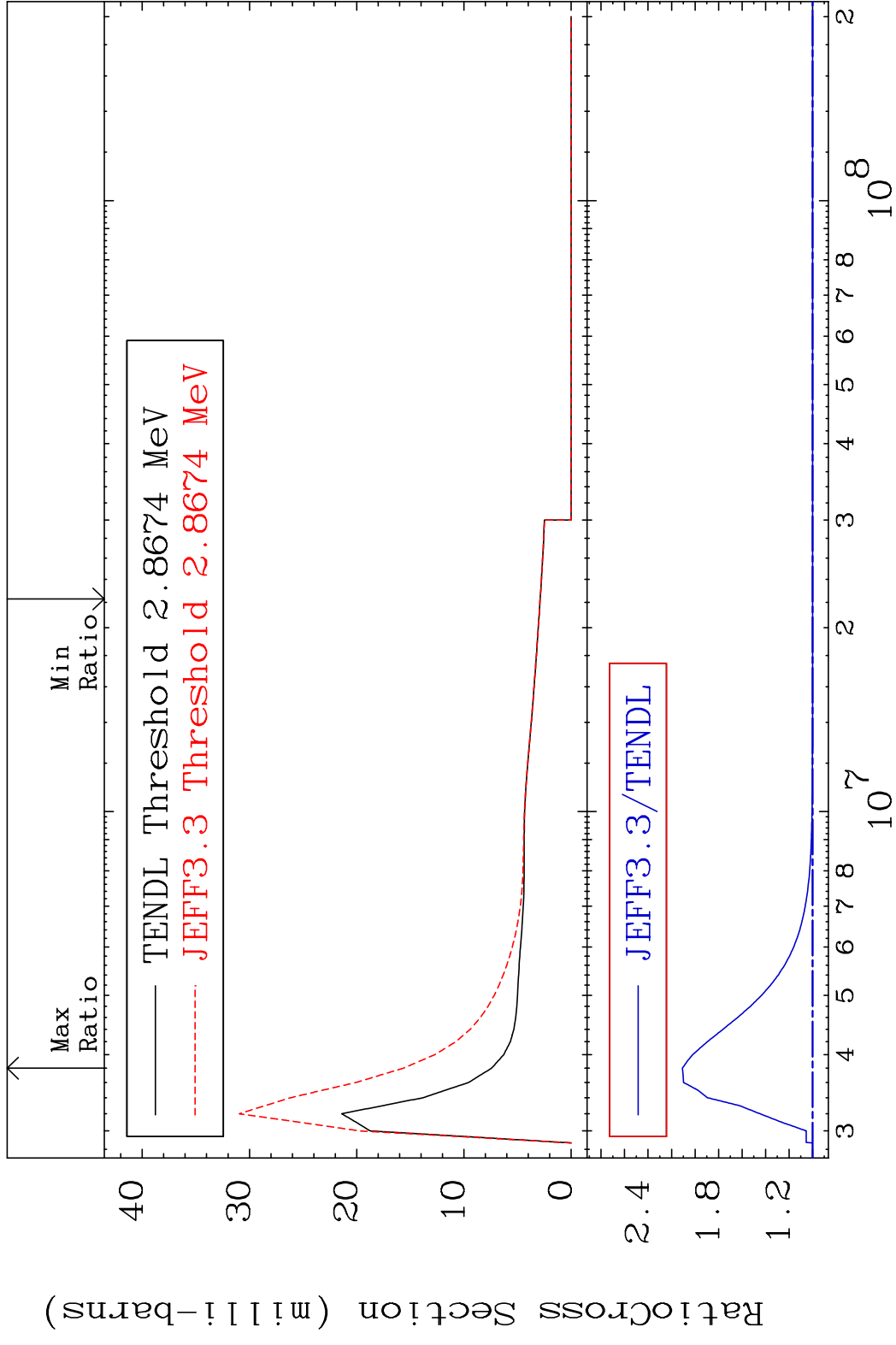
MAT 4040 MT= 75 (n, n') Level 40-Zr-95
 Cross Section -54.38 To 287.8 %



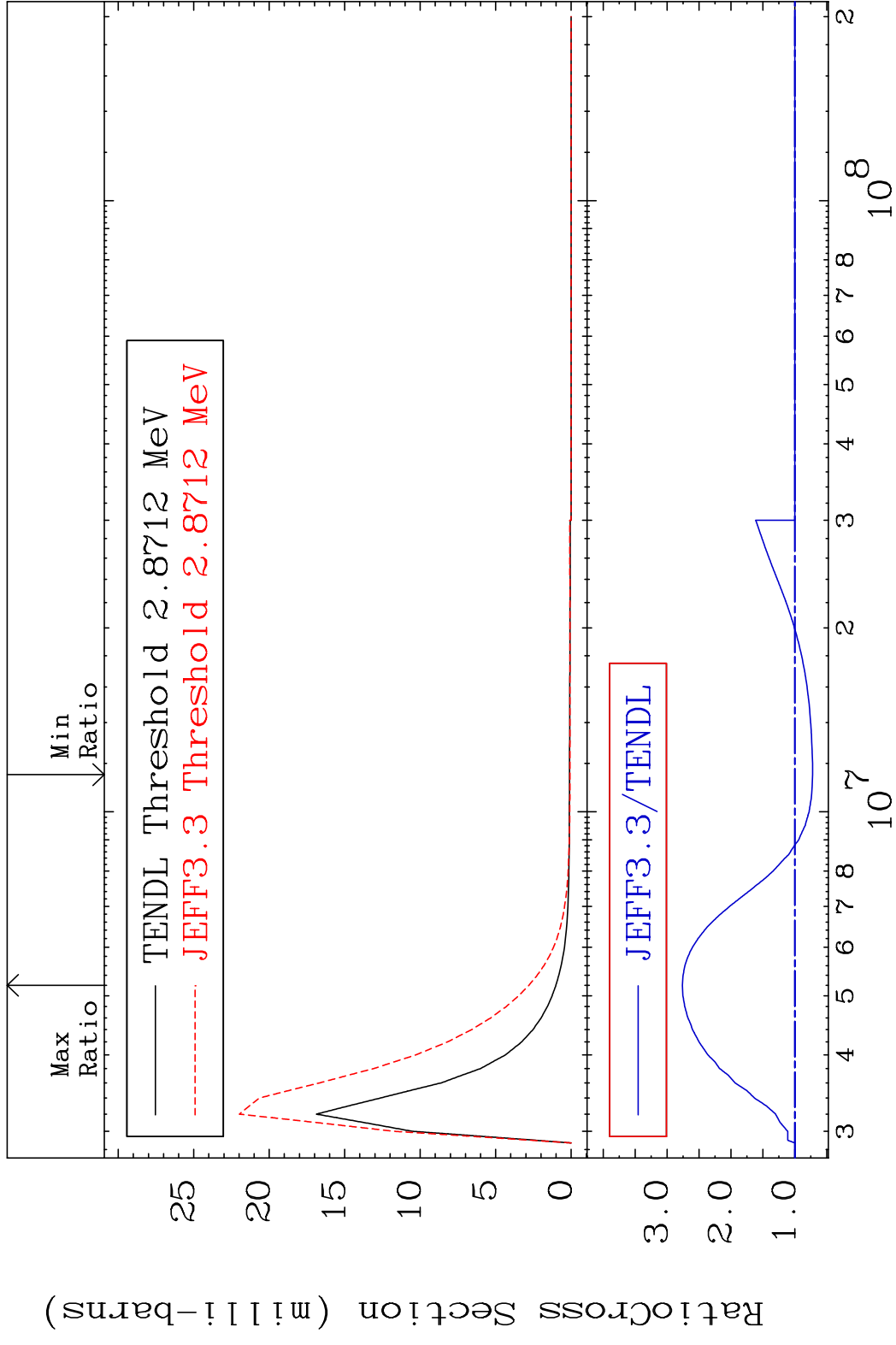
MAT 4040 MT= 76 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 110.4 %



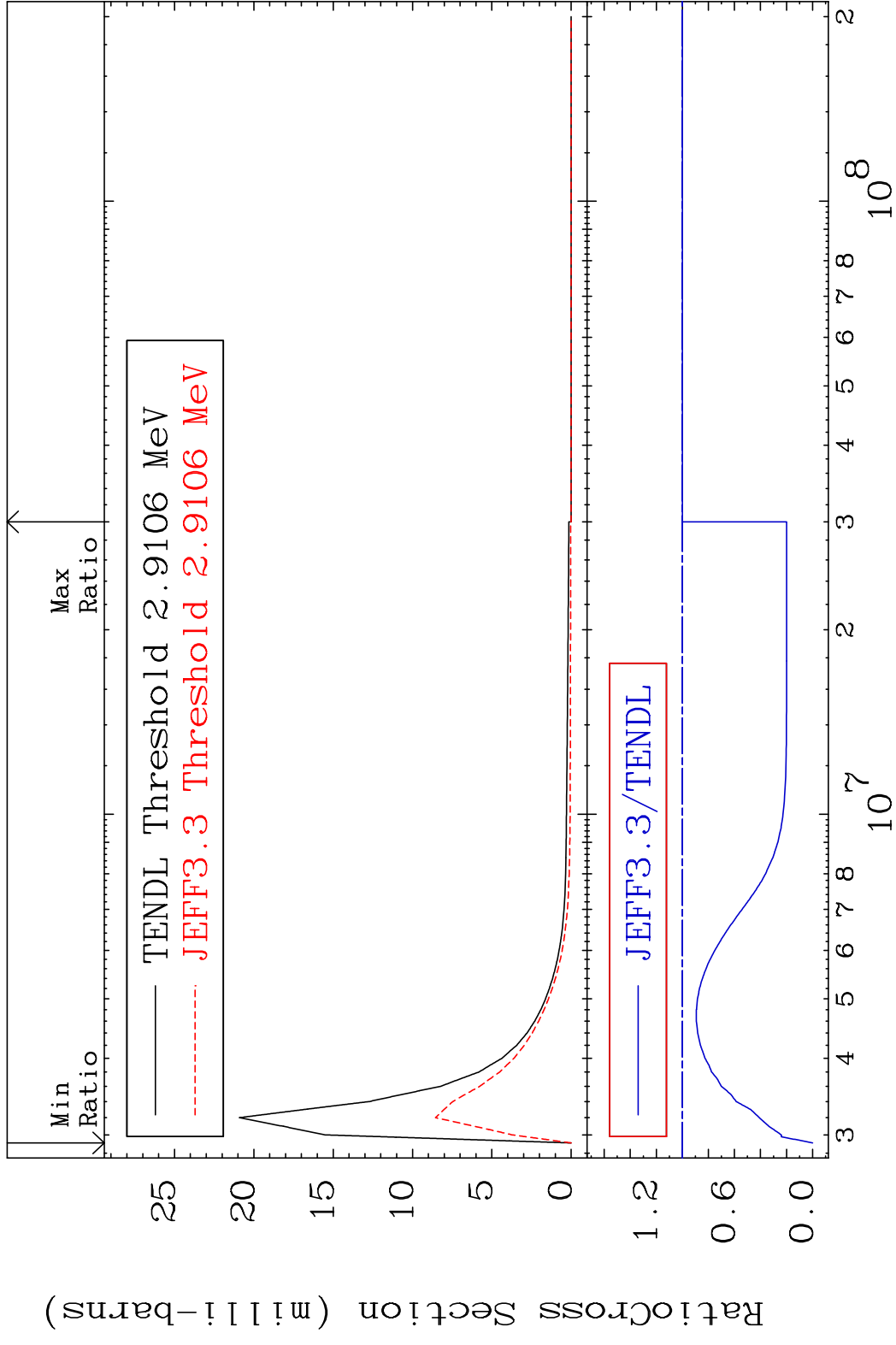
MAT 4040 MT= 77 (n, n') Level 40-Zr-95
 Cross Section 0.000 To 110.8 %



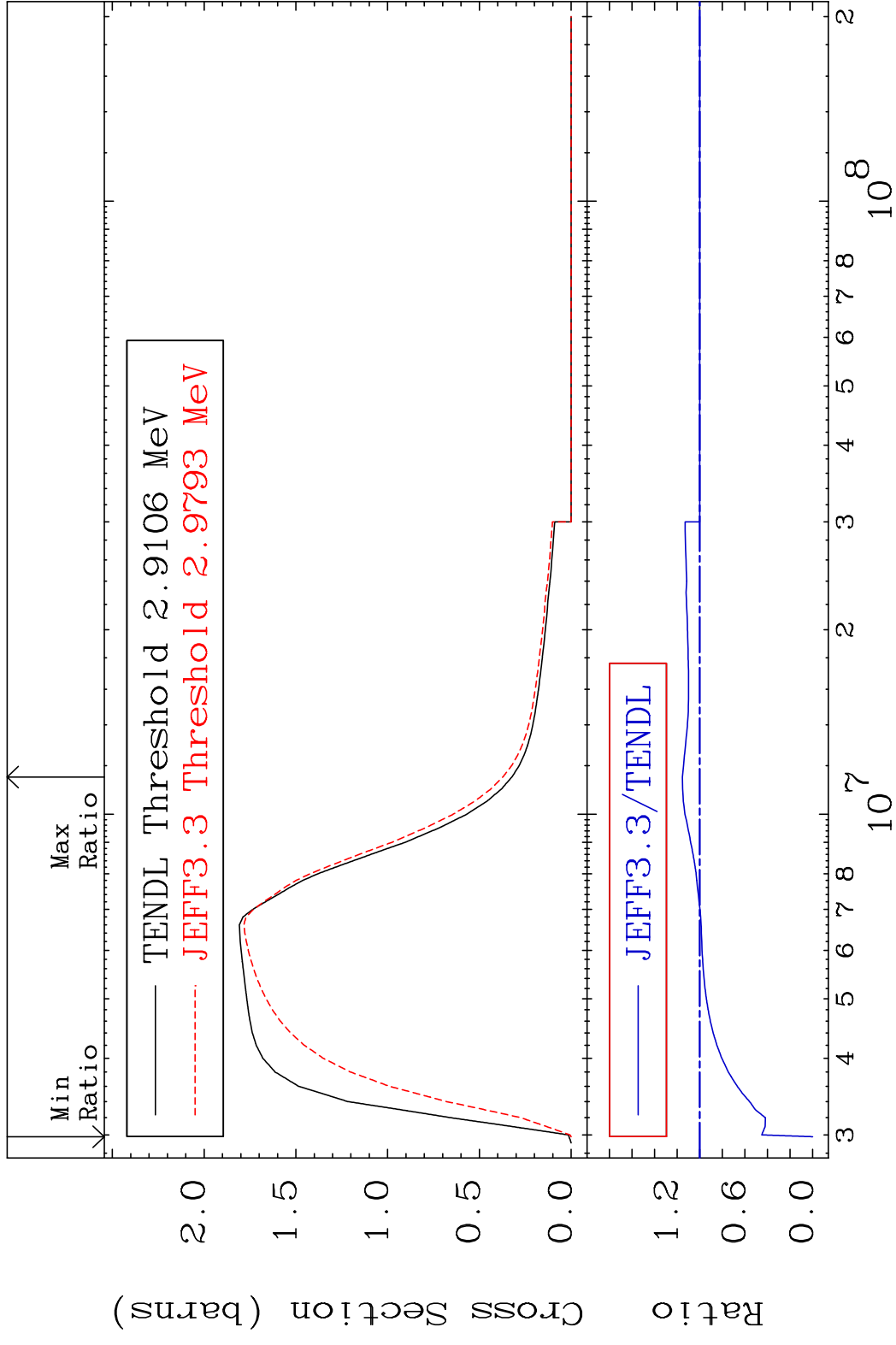
MAT 4040 MT= 78 (n, n') Level 40-Zr-95
 Cross Section -27.64 To 176.2 %



MAT 4040 MT= 79 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 0.000 %



MAT 4040 (n,n') Continuum 40-Zr-95
 Cross Section -100.0 To 15.32 %

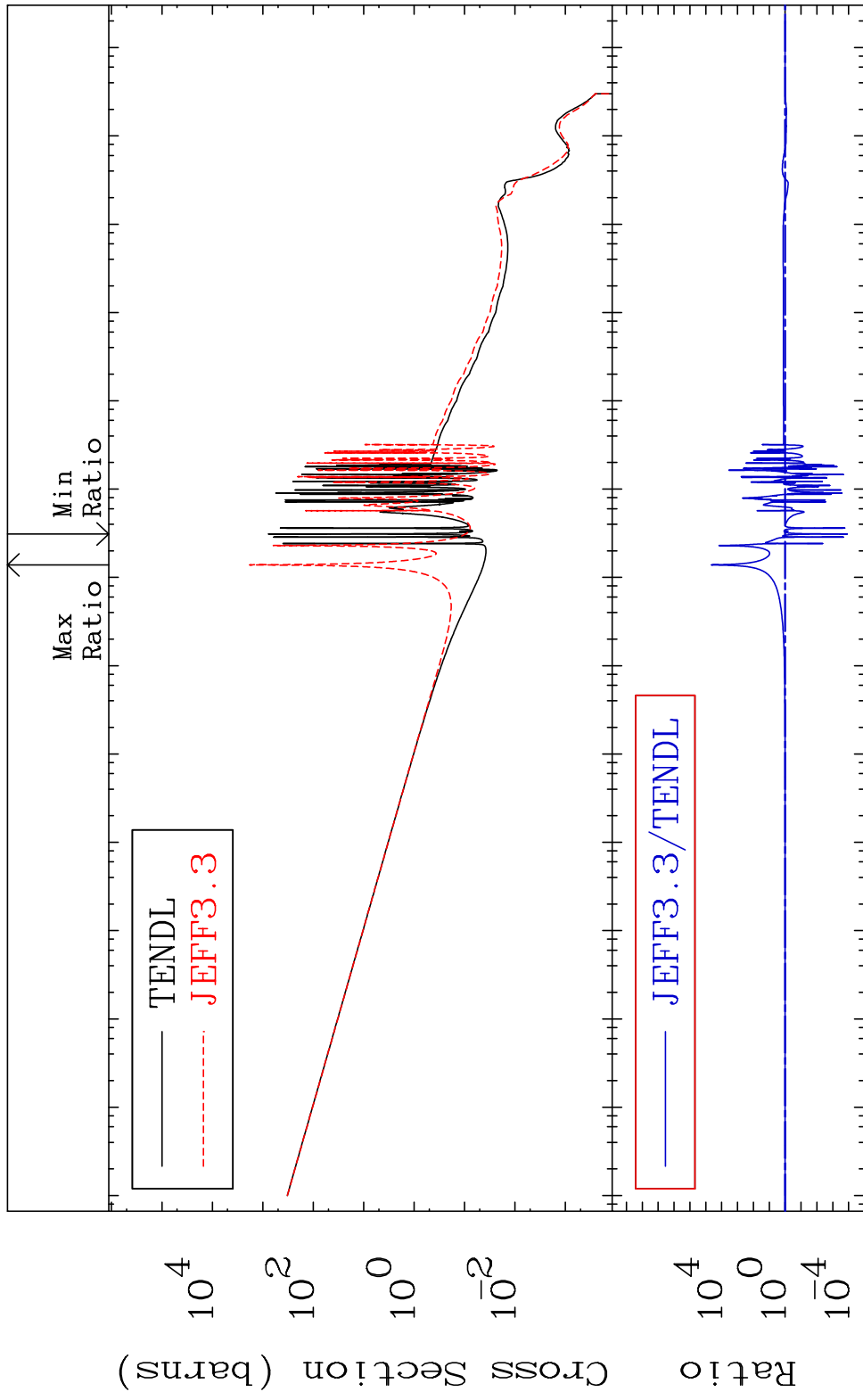


MAT 4040

(n, γ)

40-Zr-95

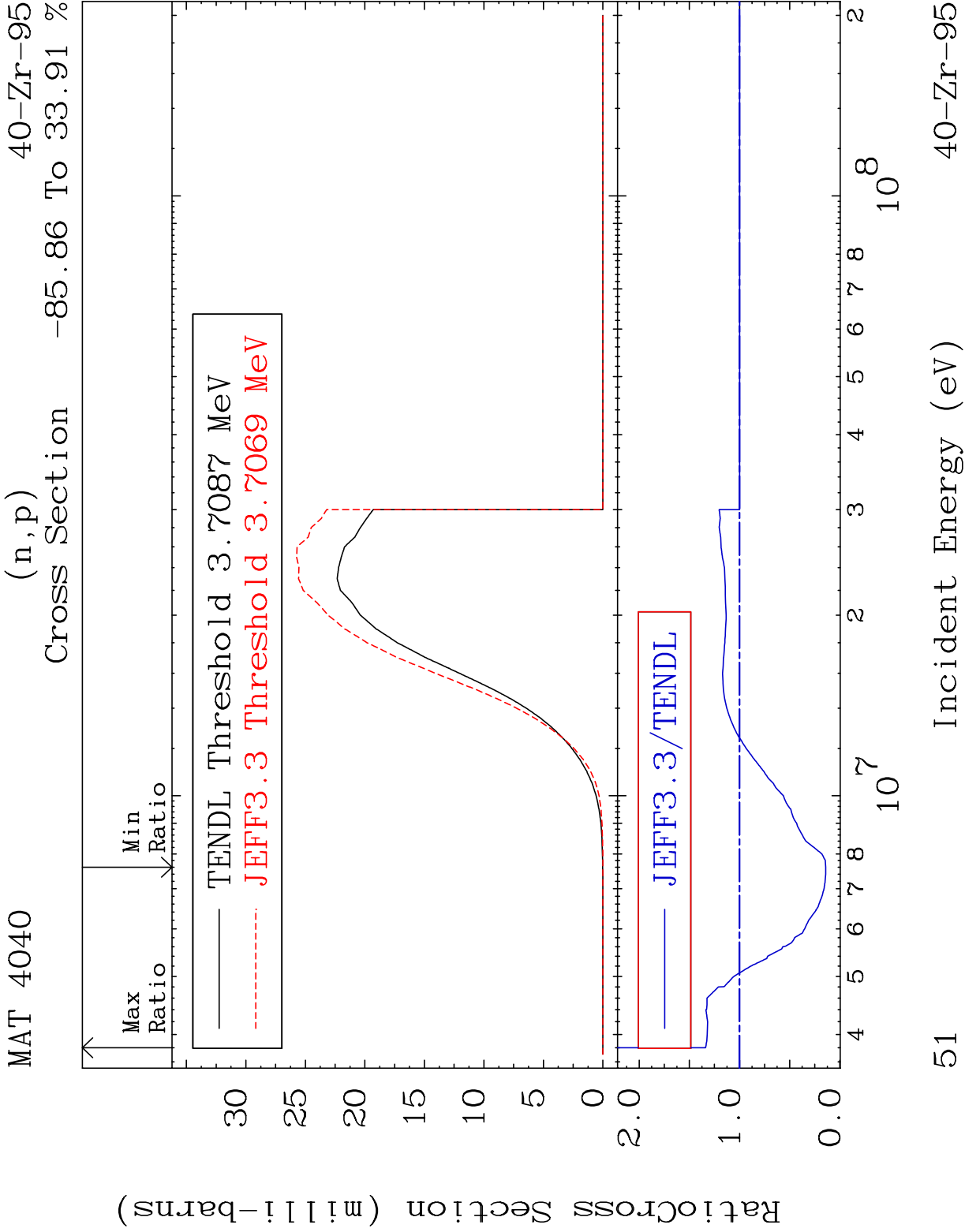
Cross Section -99.99 To 9999. %



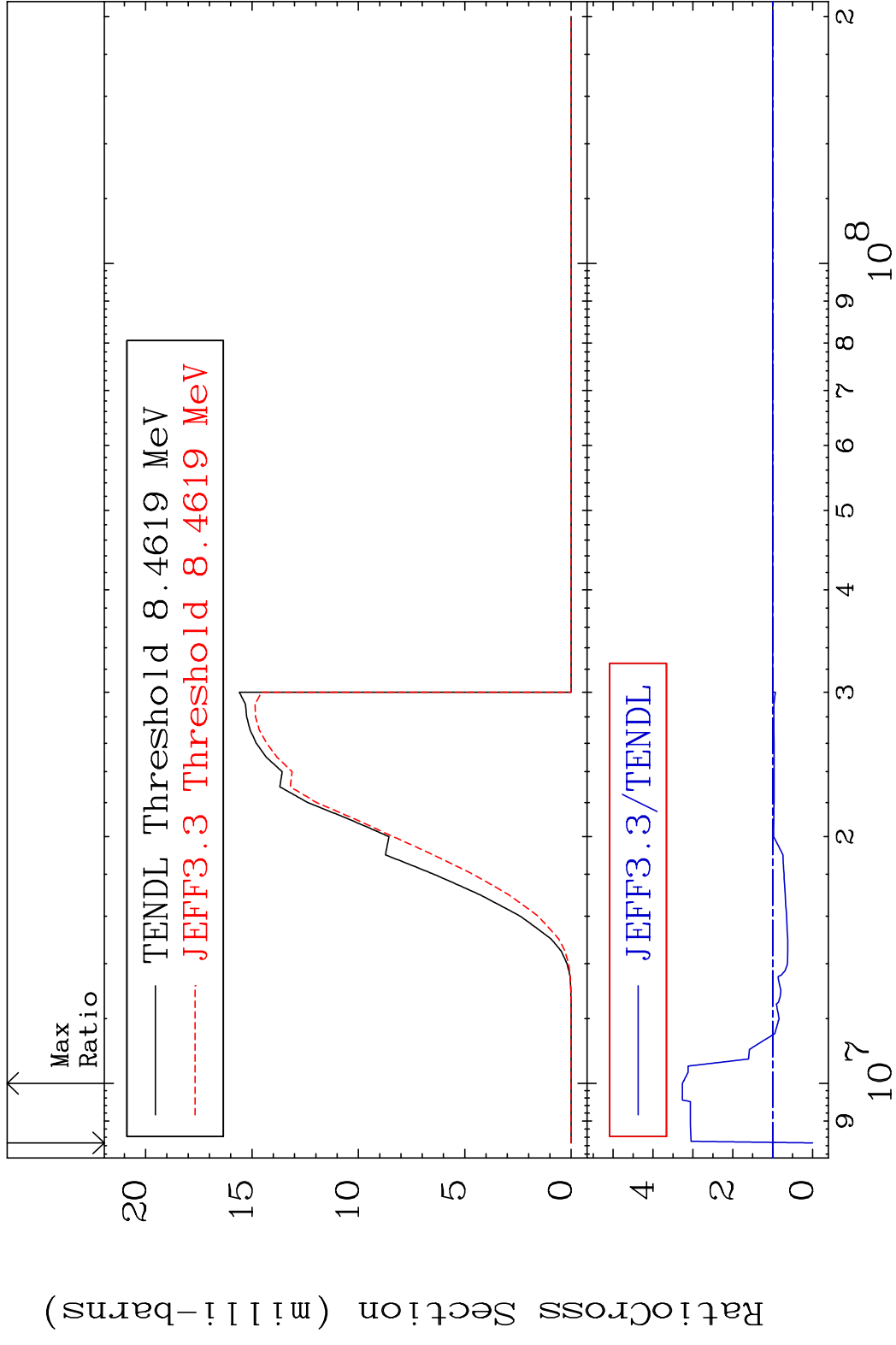
50

Incident Energy (eV)

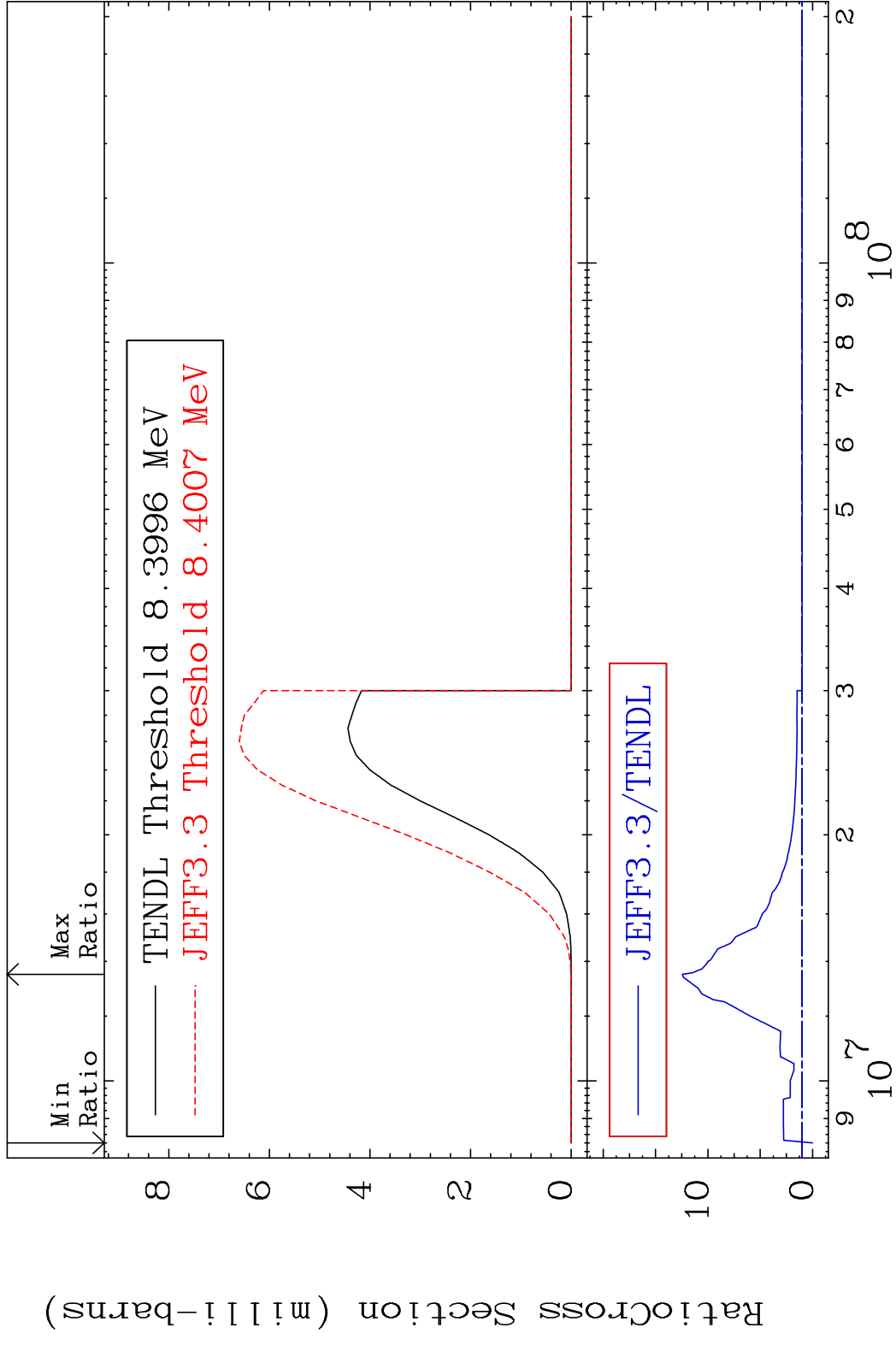
40-Zr-95



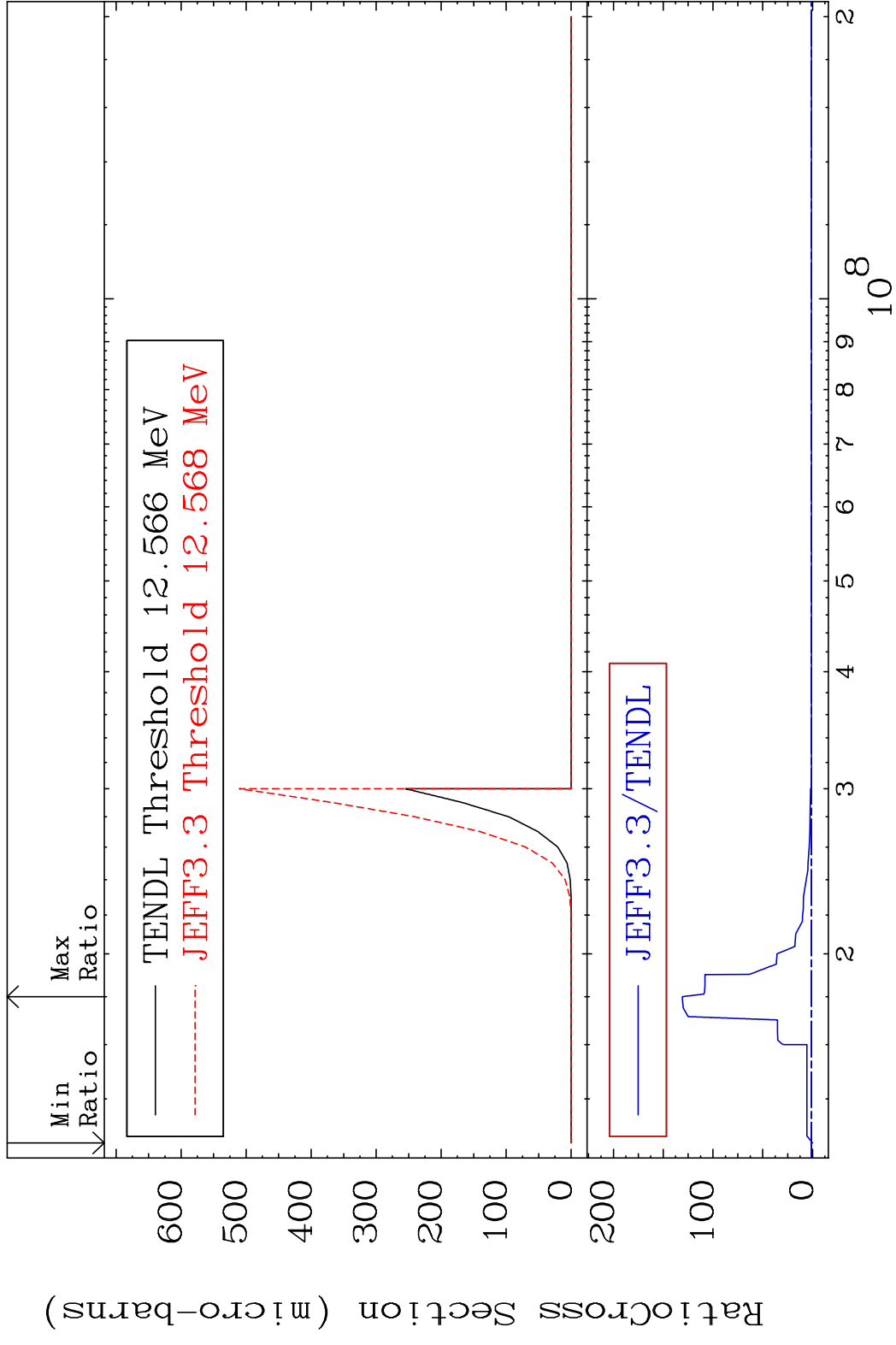
MAT 4040 (n,d) 40-Zr-95
 Cross Section -100.0 To 226.5 %

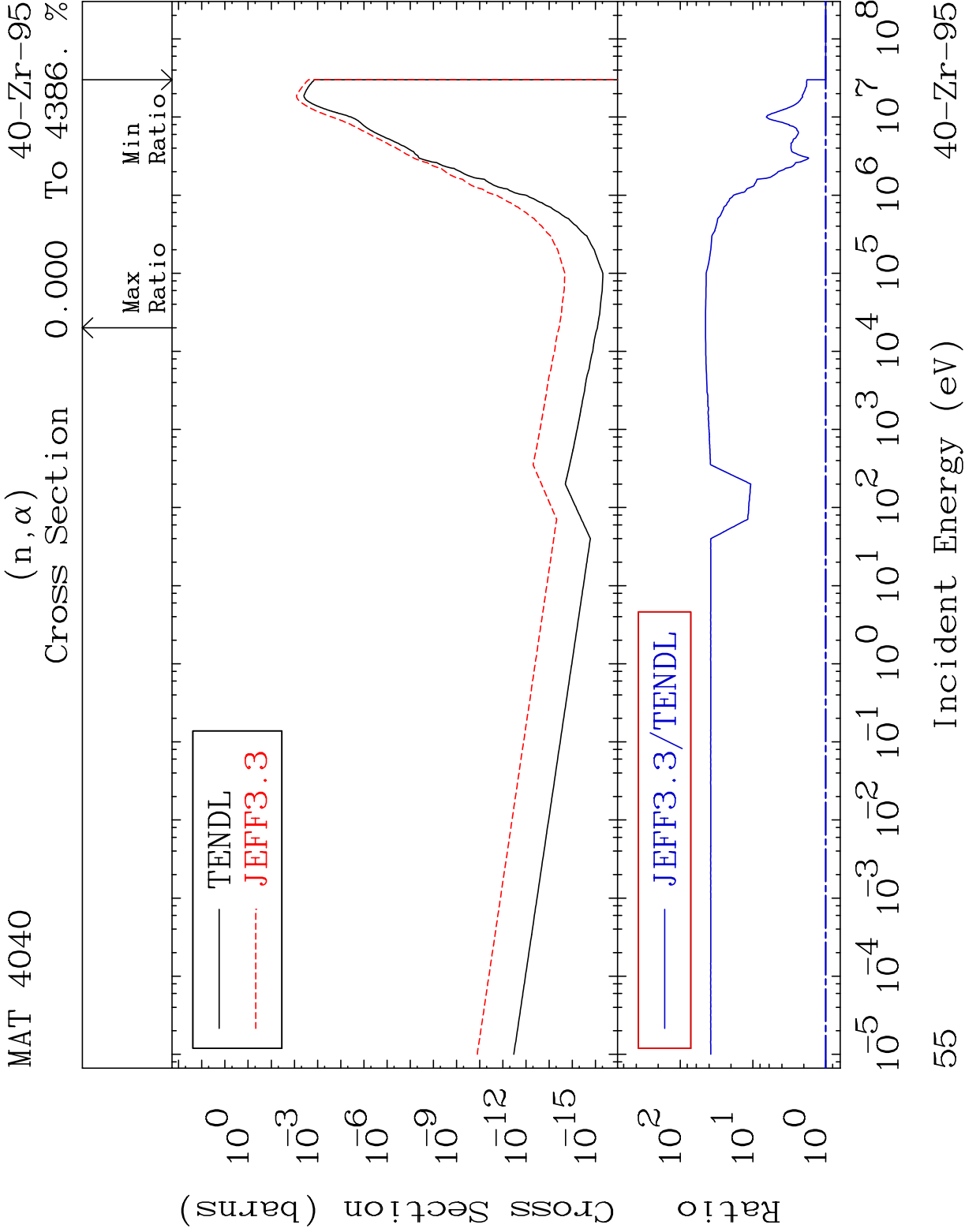


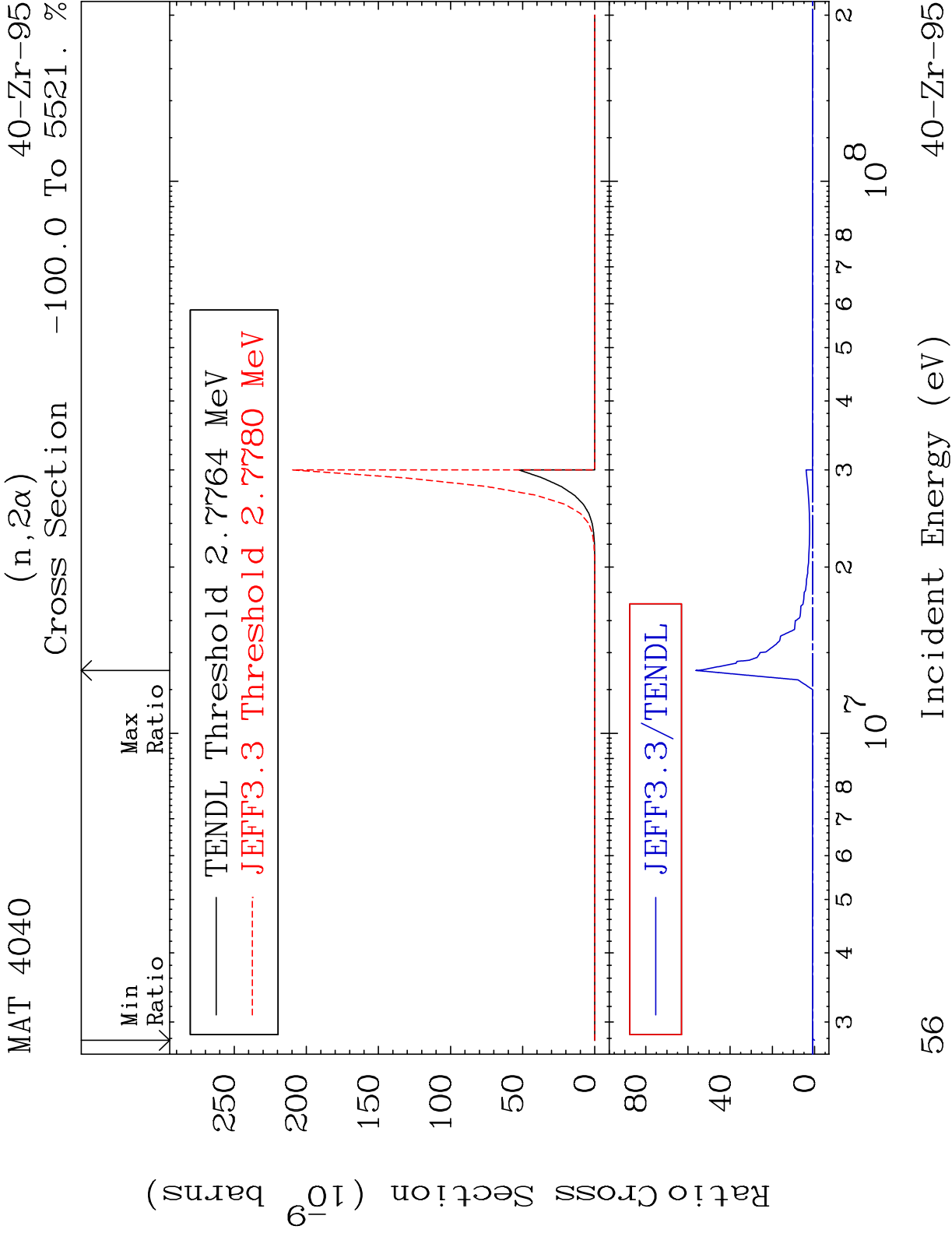
MAT 4040 (n, t) 40-Zr-95
 Cross Section -100.0 To 1144. %



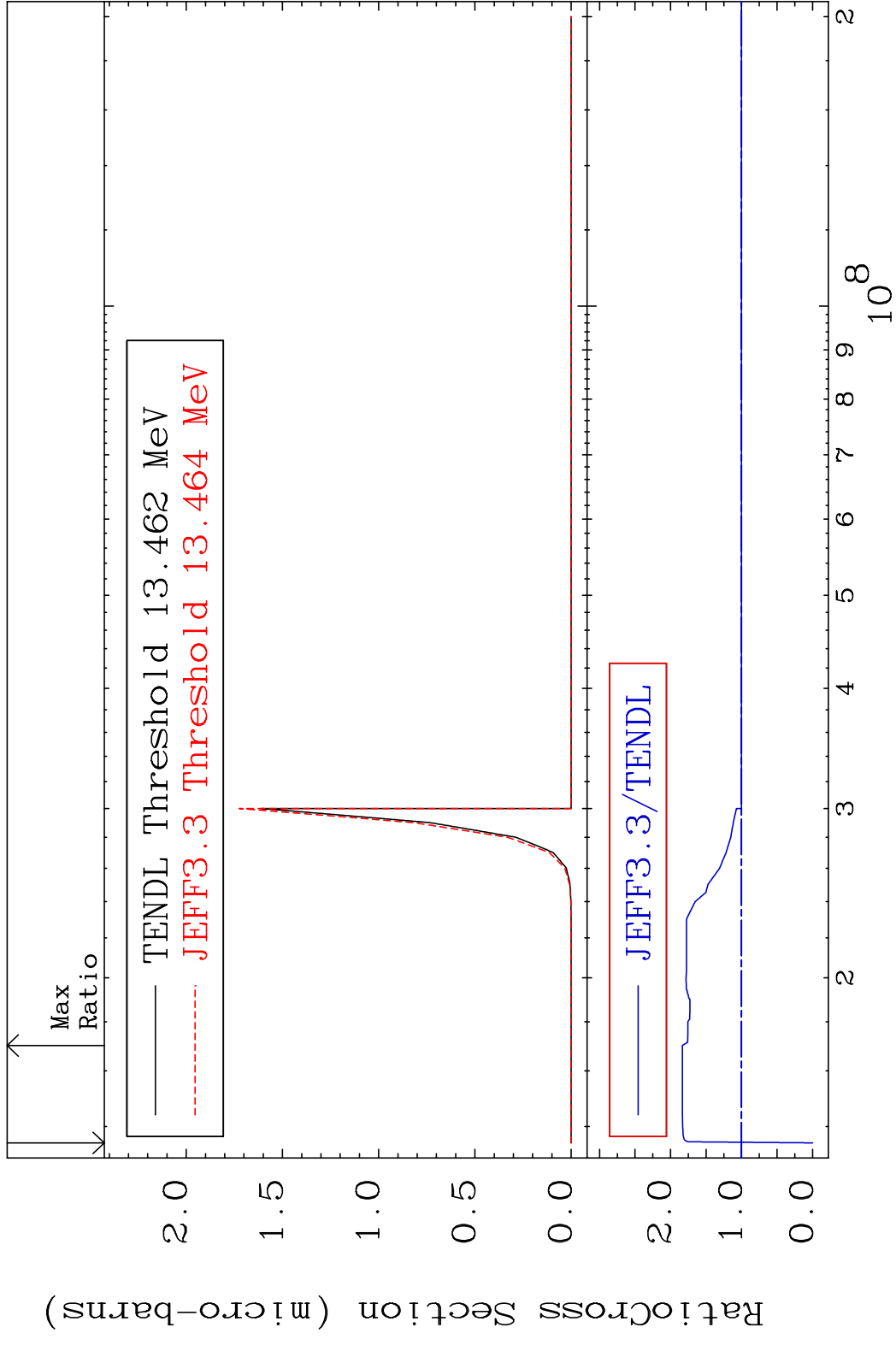
MAT 4040 (n, He-3) 40-Zr-95
 Cross Section -100.0 To 9999. %



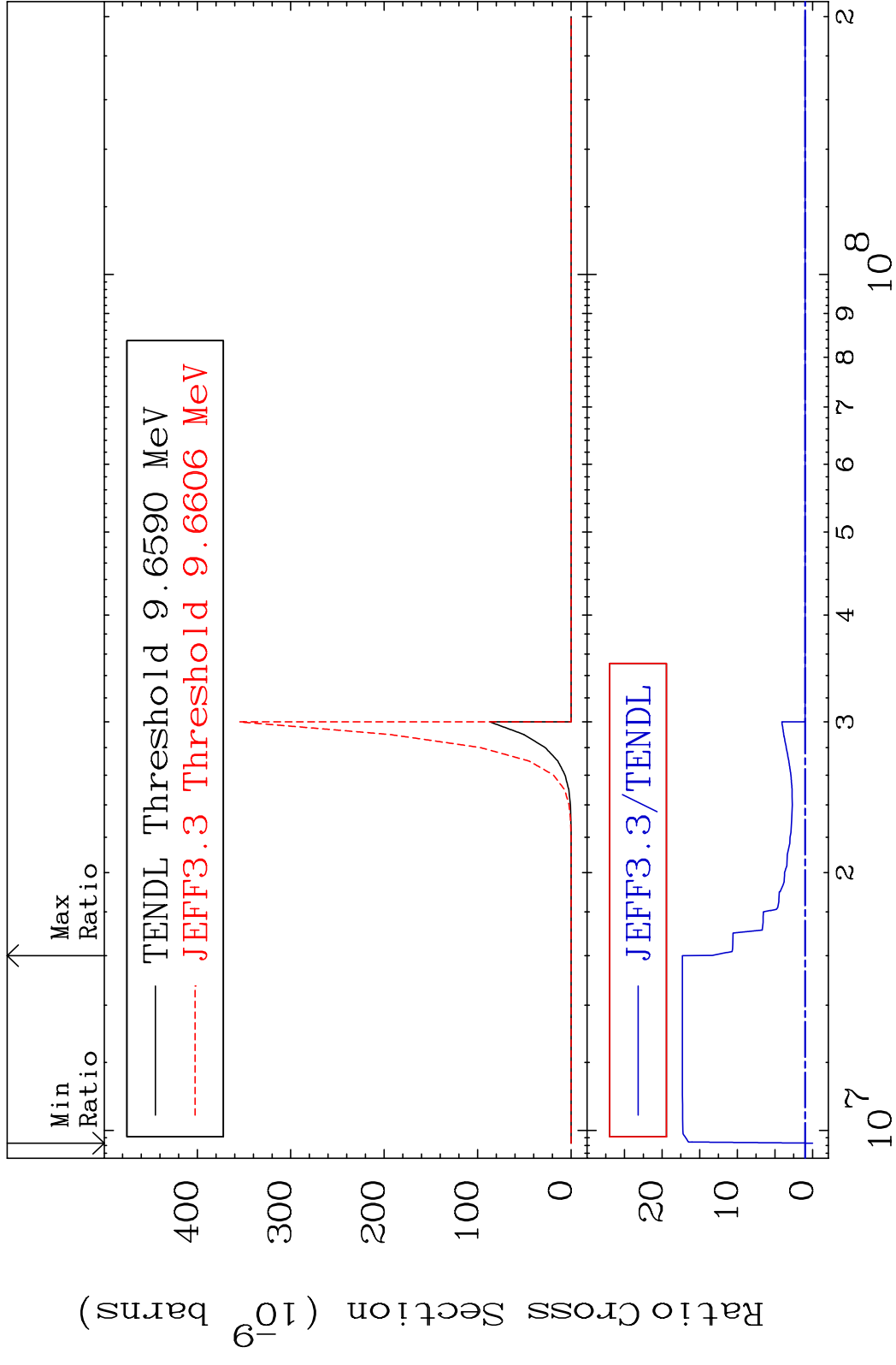




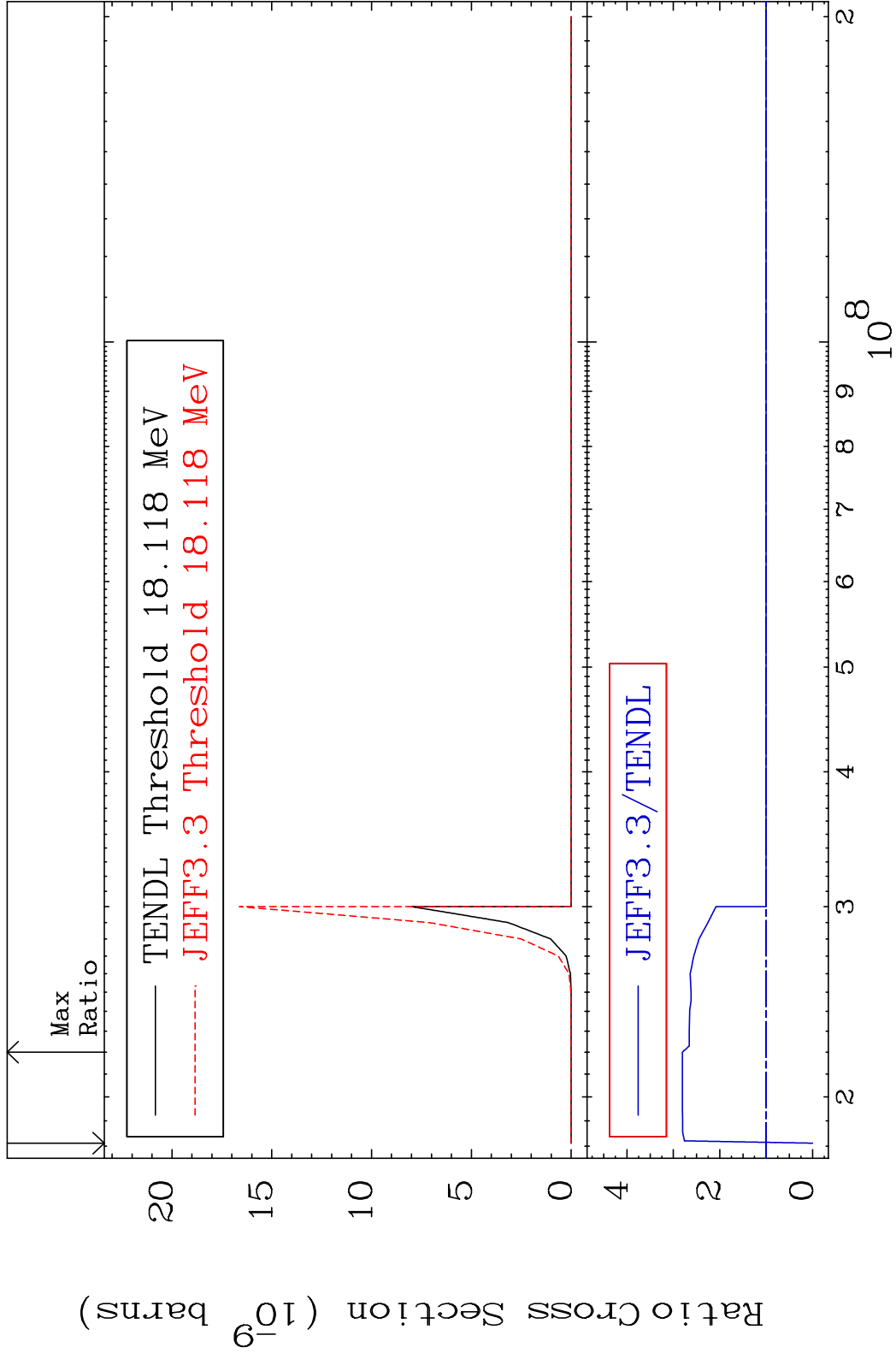
MAT 4040 (n,2p) 40-Zr-95
 Cross Section -100.0 To 83.36 %



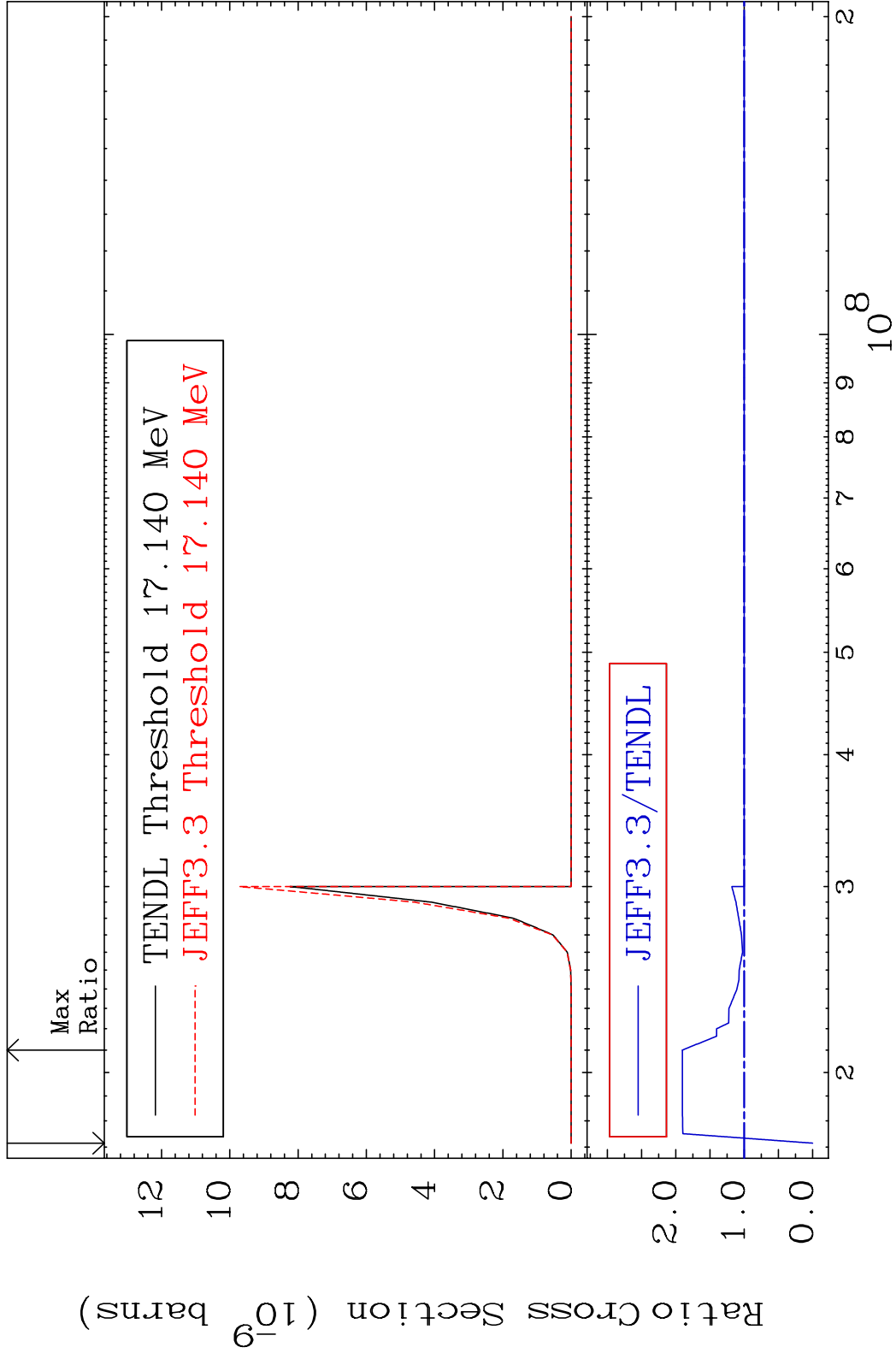
MAT 4040 (n,p) α 40-Zr-95
 Cross Section -100.0 To 1631. %



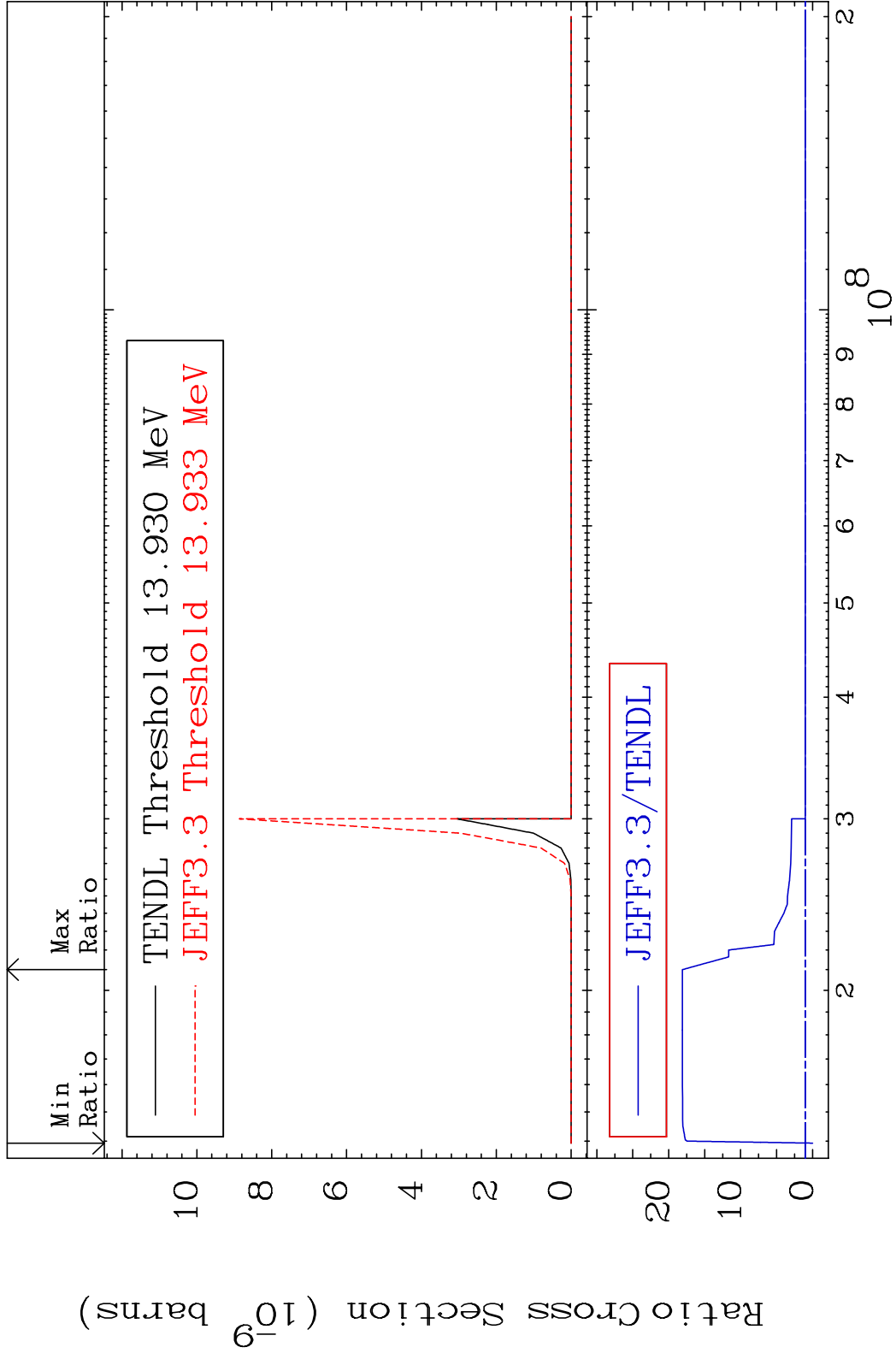
MAT 4040 (n,p) d 40-Zr-95
 Cross Section -100.0 To 180.7 %



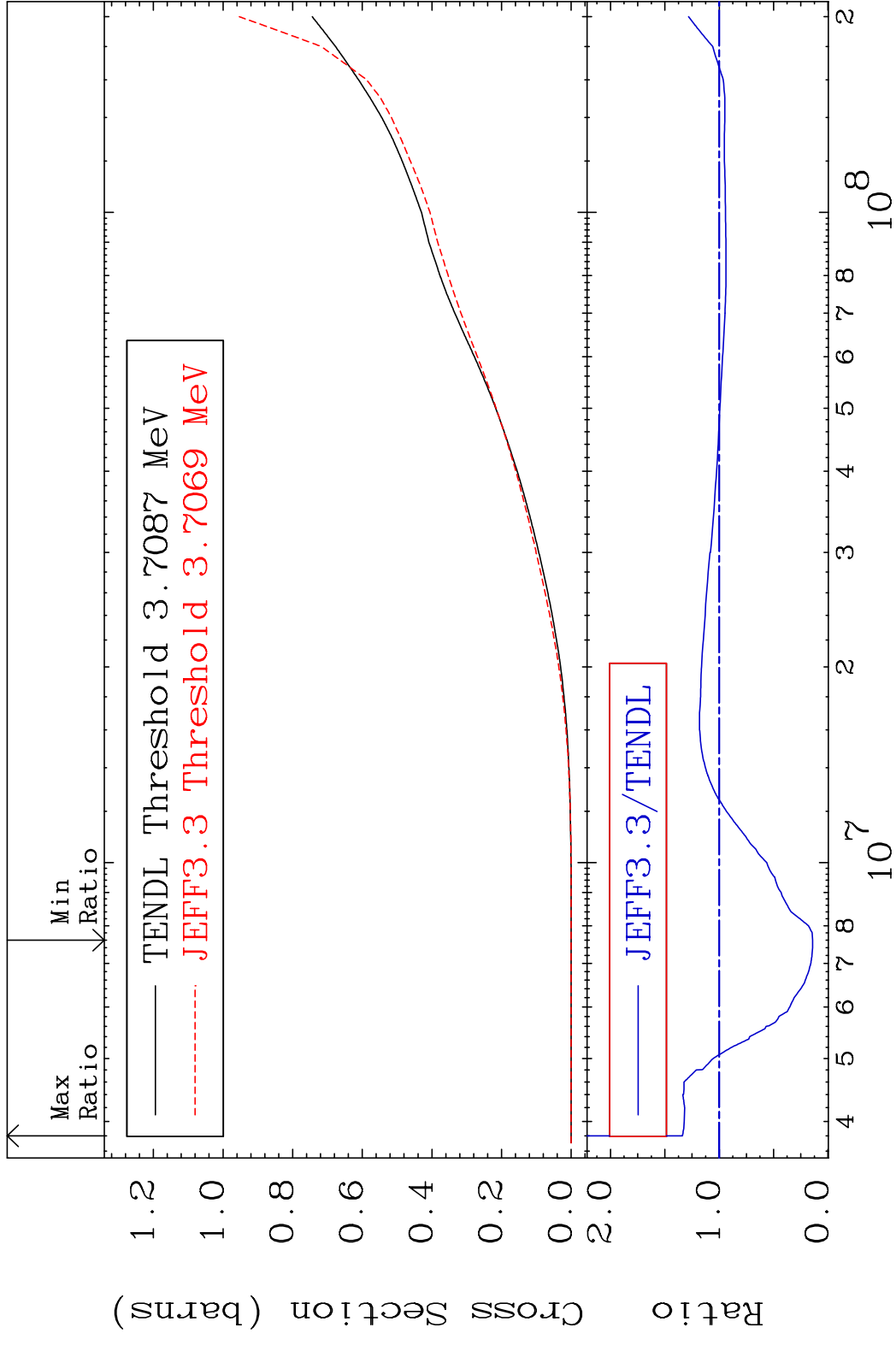
MAT 4040 (n,p) t 40-Zr-95
 Cross Section -100.0 To 90.31 %



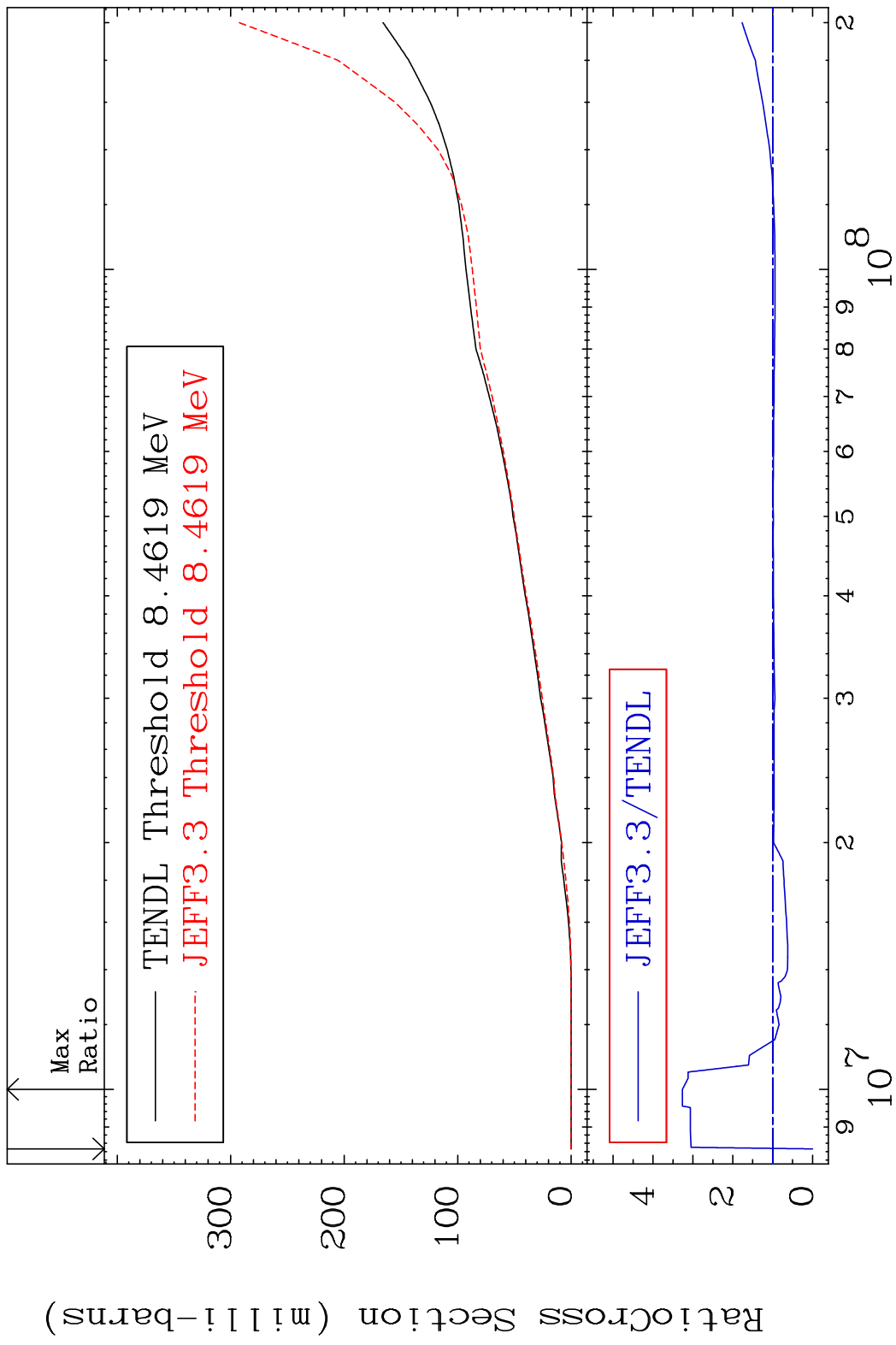
MAT 4040 (n,d) α 40-Zr-95
 Cross Section -100.0 To 1711. %



MAT 4040 Hydrogen Production 40-Zr-95
 Cross Section -85.86 To 33.91 %

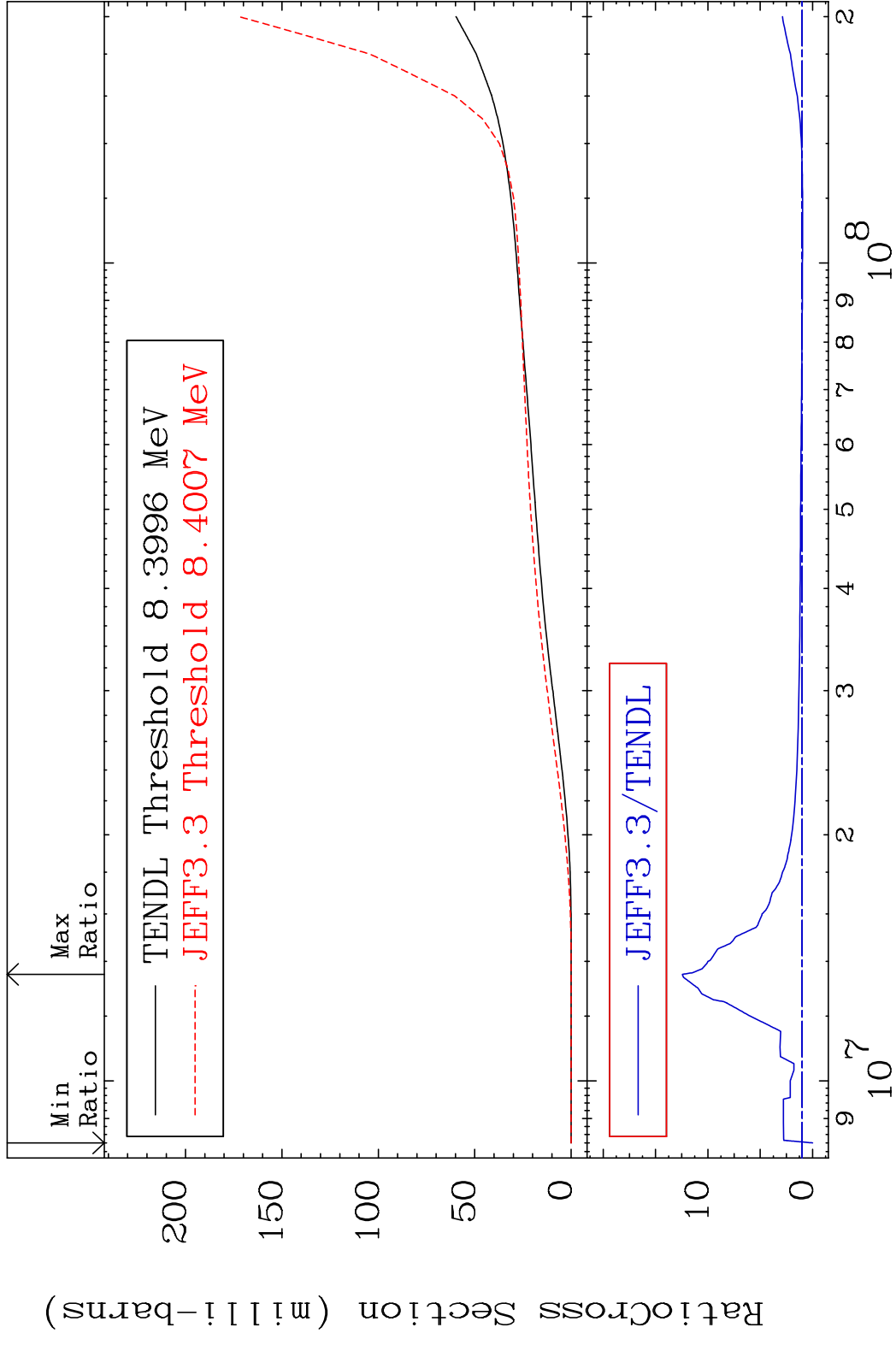


MAT 4040 Deuterium Production 40-Zr-95
 Cross Section -100.0 To 226.5 %



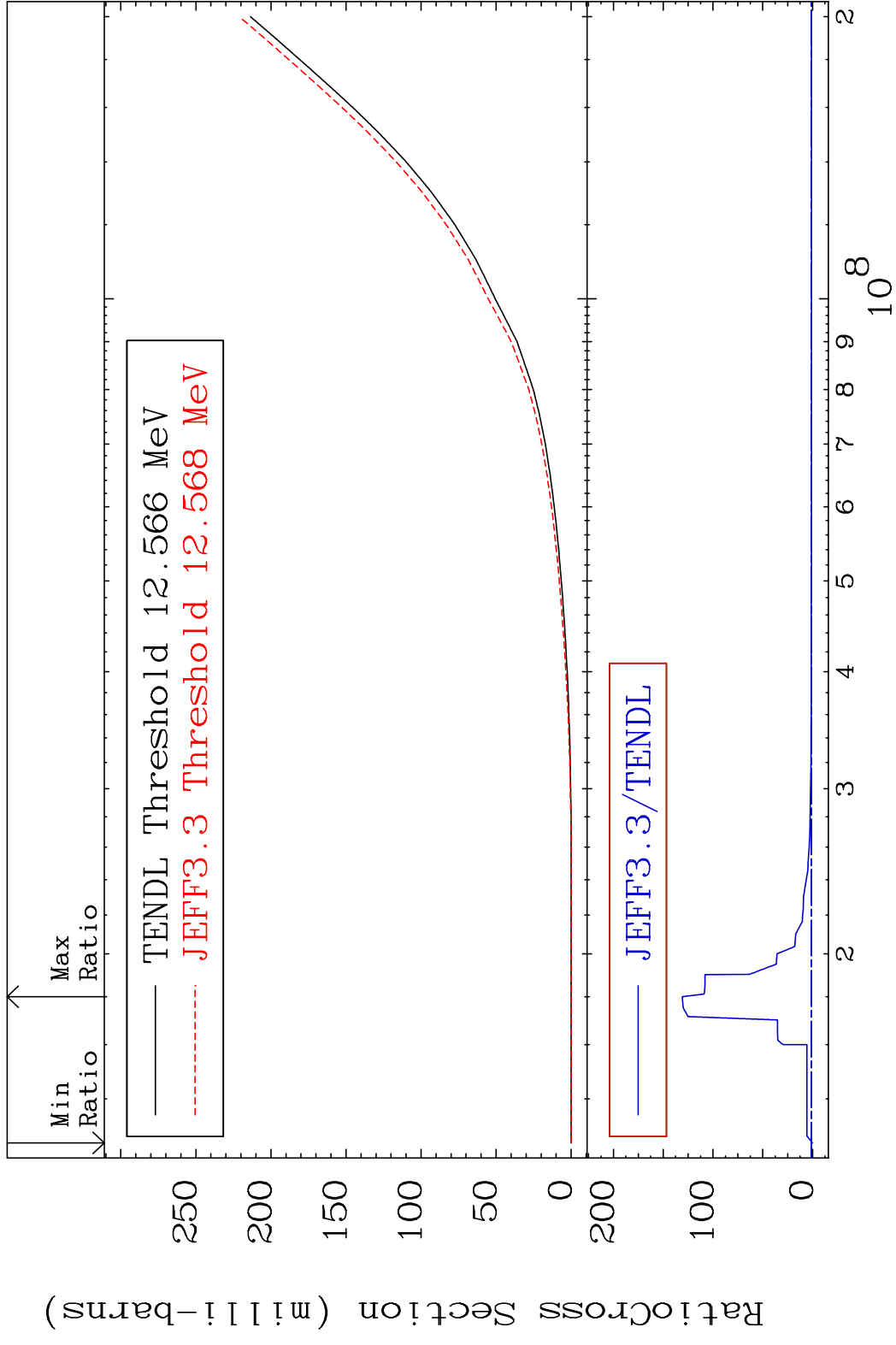
63 40-Zr-95

MAT 4040 Tritium Production 40-Zr-95
 Cross Section -100.0 To 1144. %

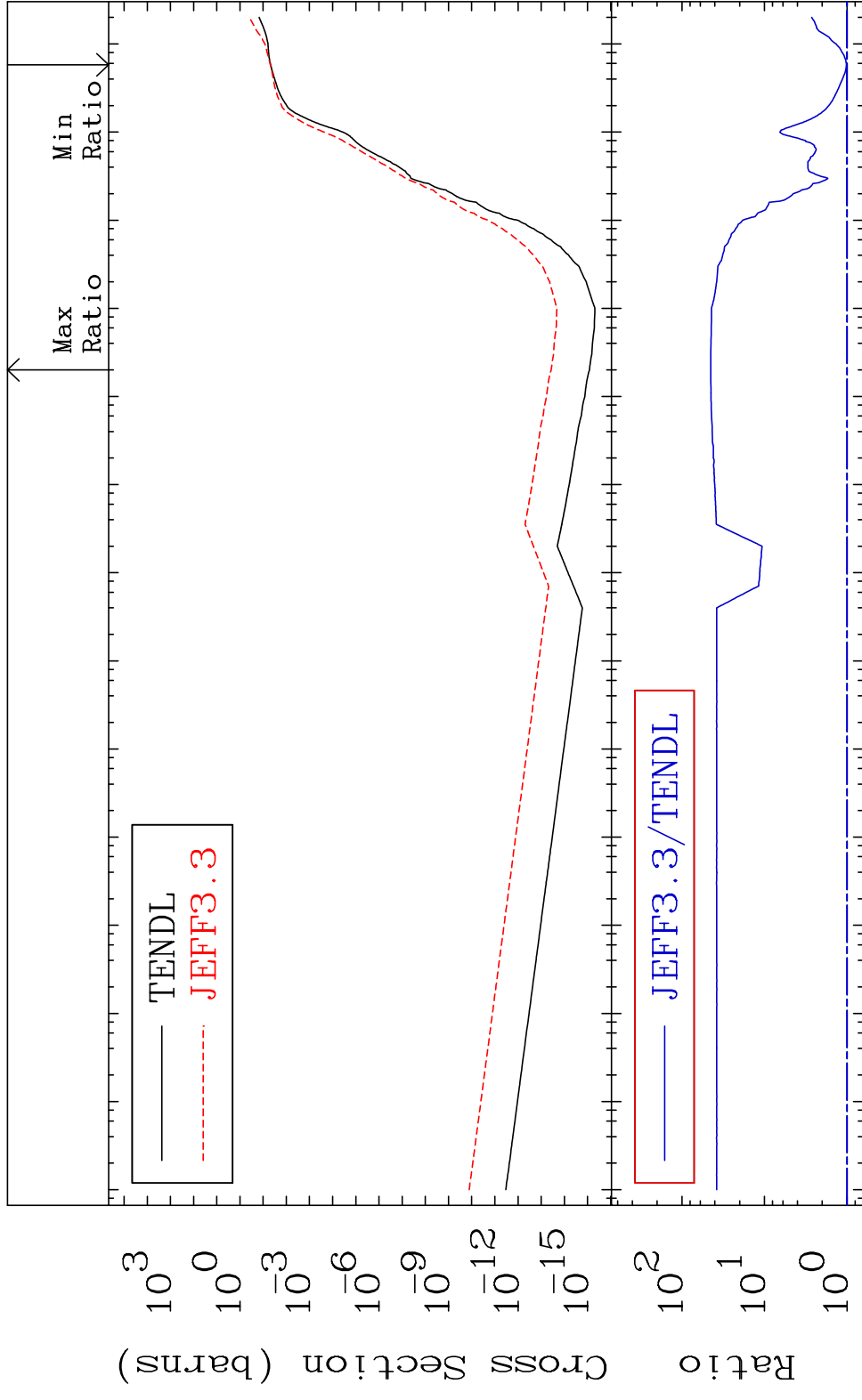


64 40-Zr-95

MAT 4040 He-3 Production 40-Zr-95
 Cross Section -100.0 To 9999. %

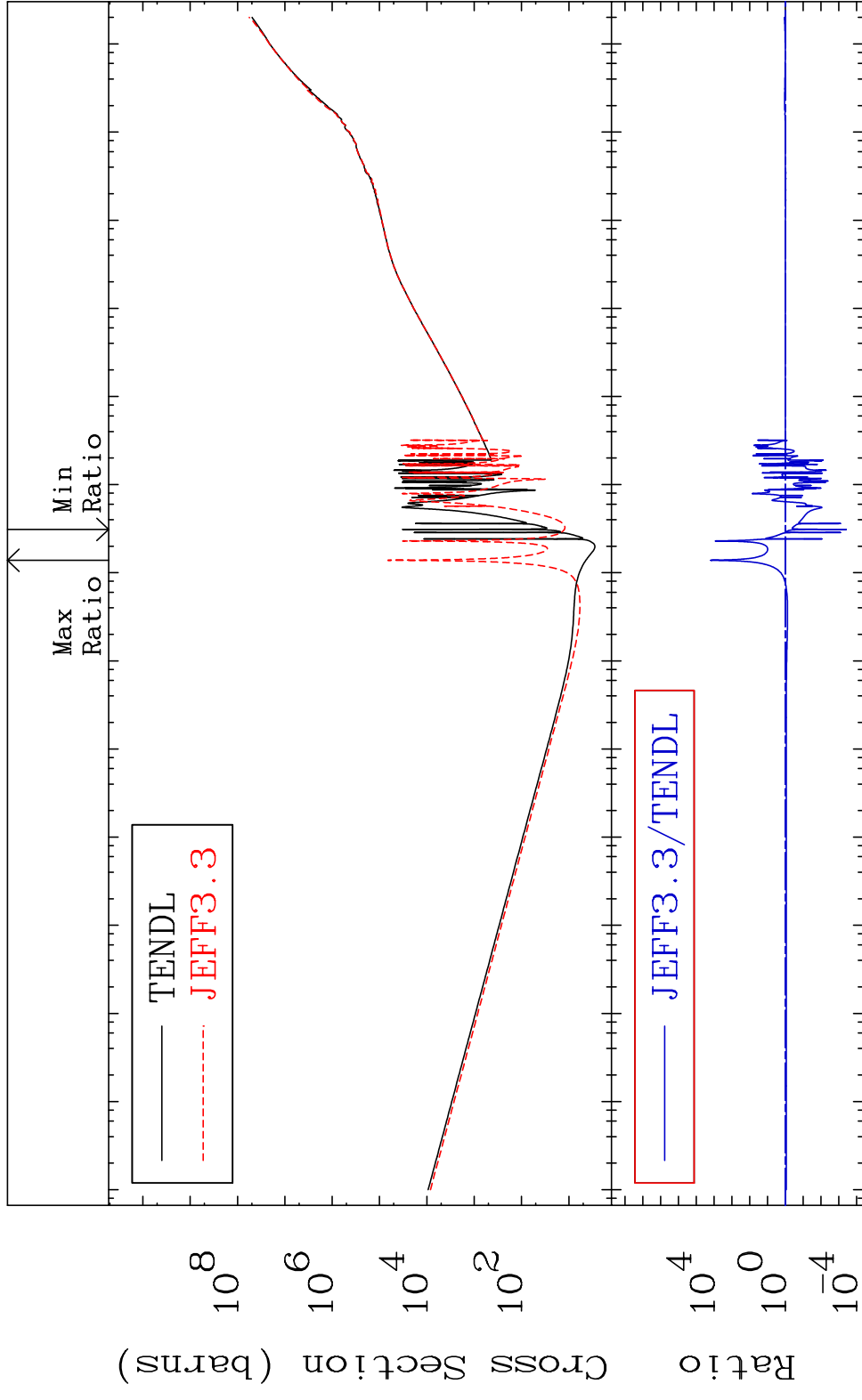


MAT 4040 He-4 Production 40-Zr-95
 Cross Section 2.205 To 4386. %



Ratio
 Cross Section (barns)
 Incident Energy (eV) 40-Zr-95

MAT 4040 Kerma total (eV-barns) 40-Zr-95
 Cross Section -99.96 To 9999. %

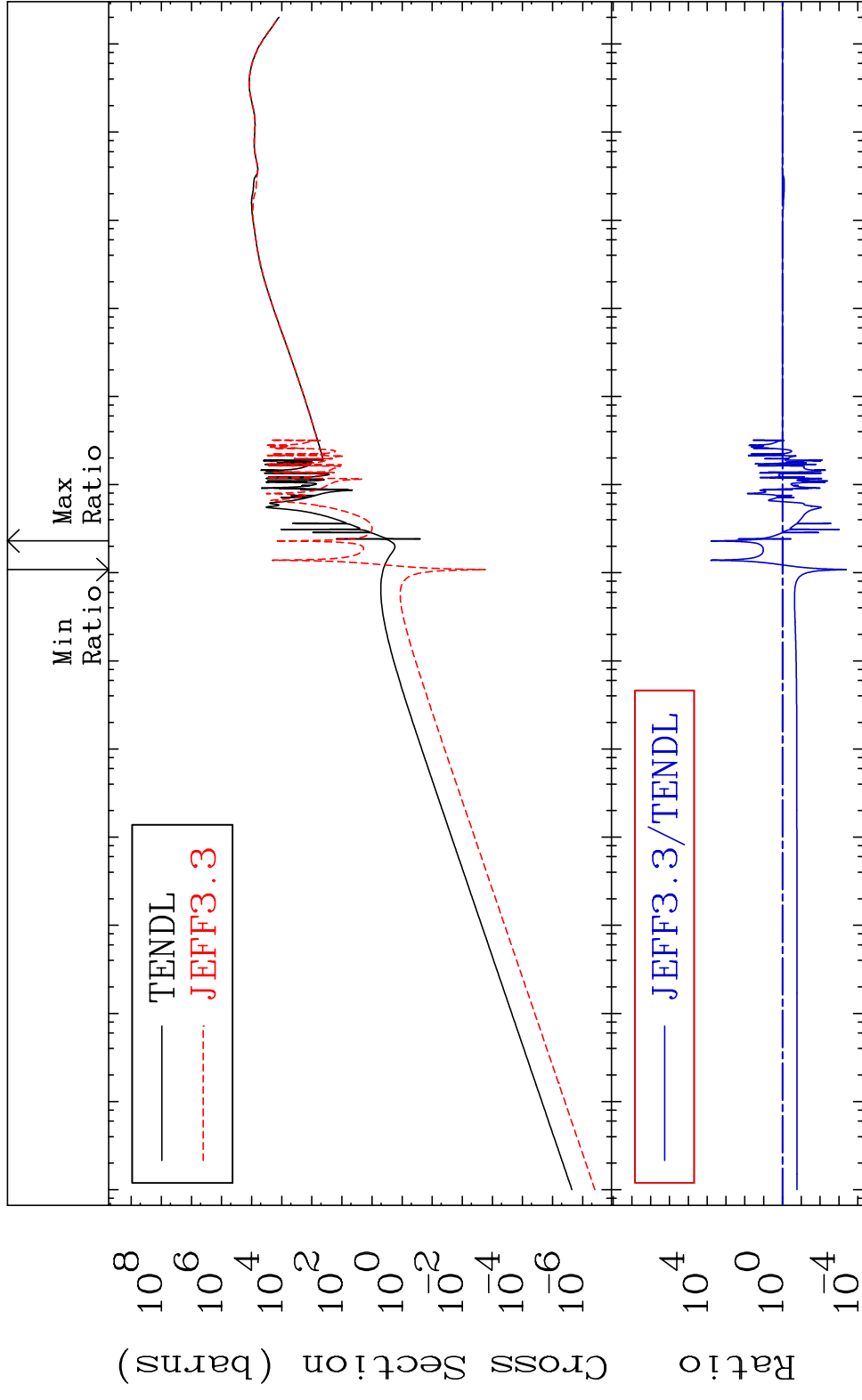


67 Incident Energy (eV) 40-Zr-95

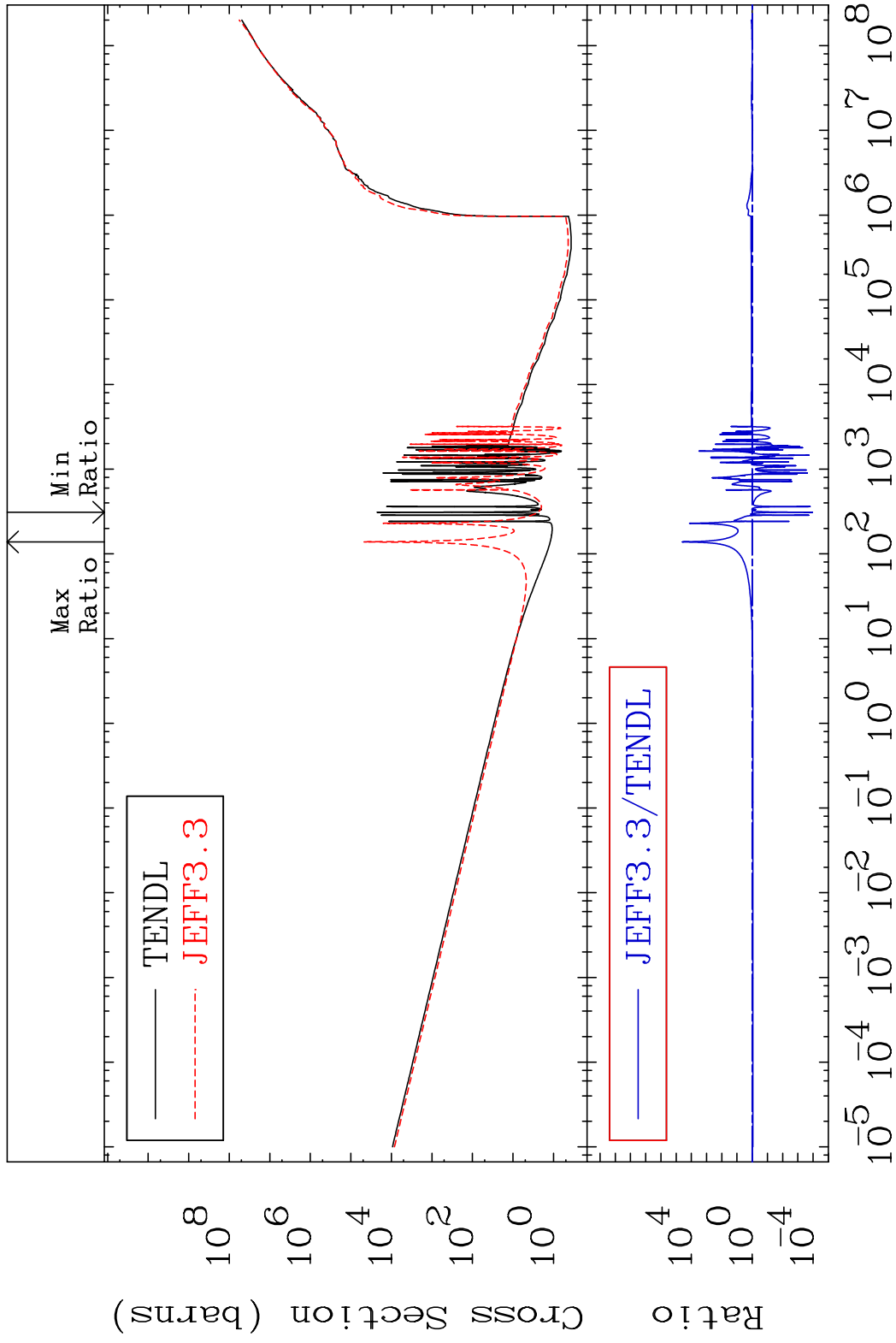
MAT 4040

Kerma elastic
Cross Section

40-Zr-95
-99.96 To 9999. %

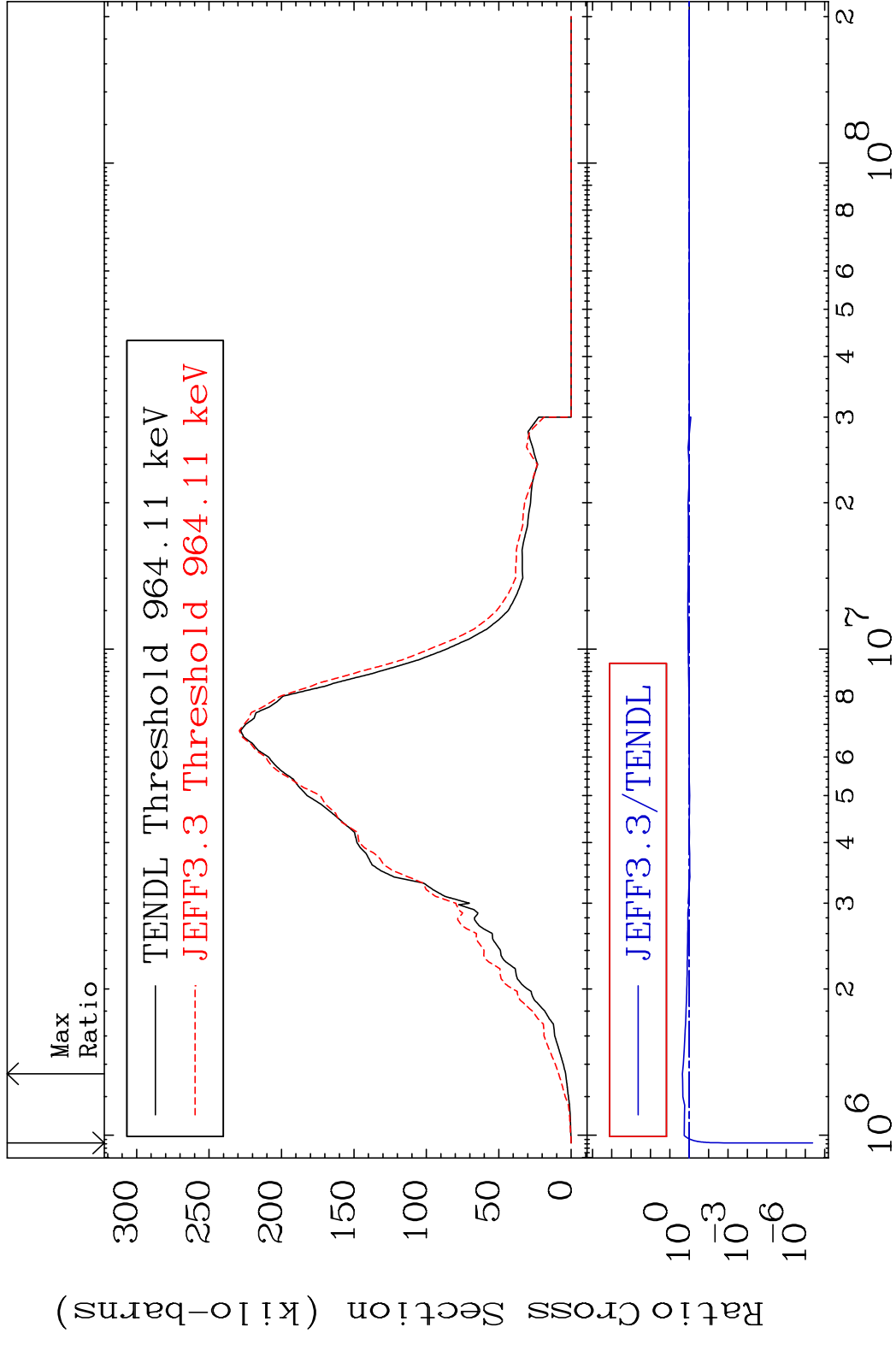


MAT 4040 Kerma non-elastic (all but mt2) 40-Zr-95
 Cross Section -99.99 To 9999. %



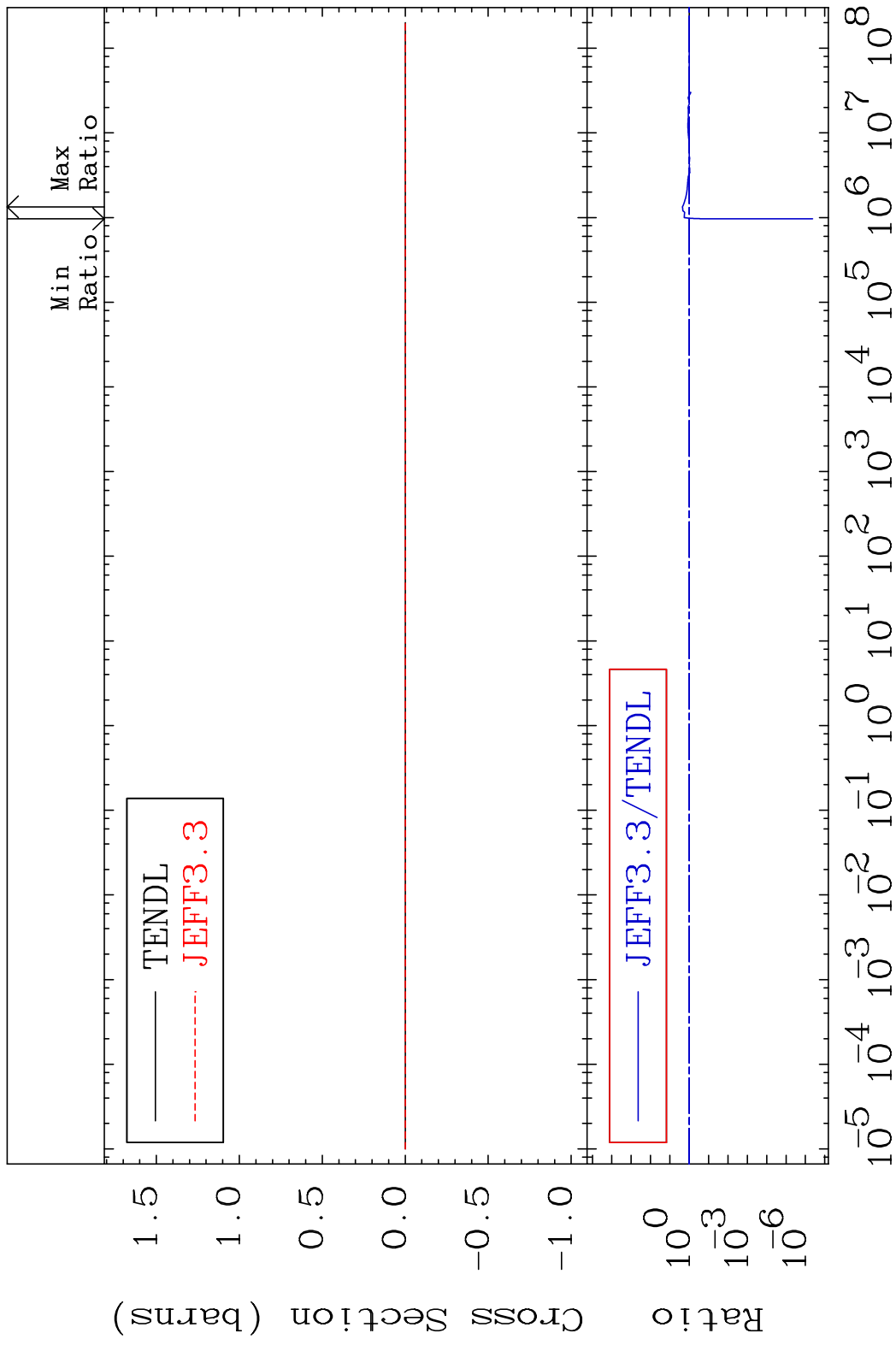
69 Incident Energy (eV) 40-Zr-95

MAT 4040 Kerma inelastic (mt51-91) 40-Zr-95
 Cross Section -100.0 To 126.8 %



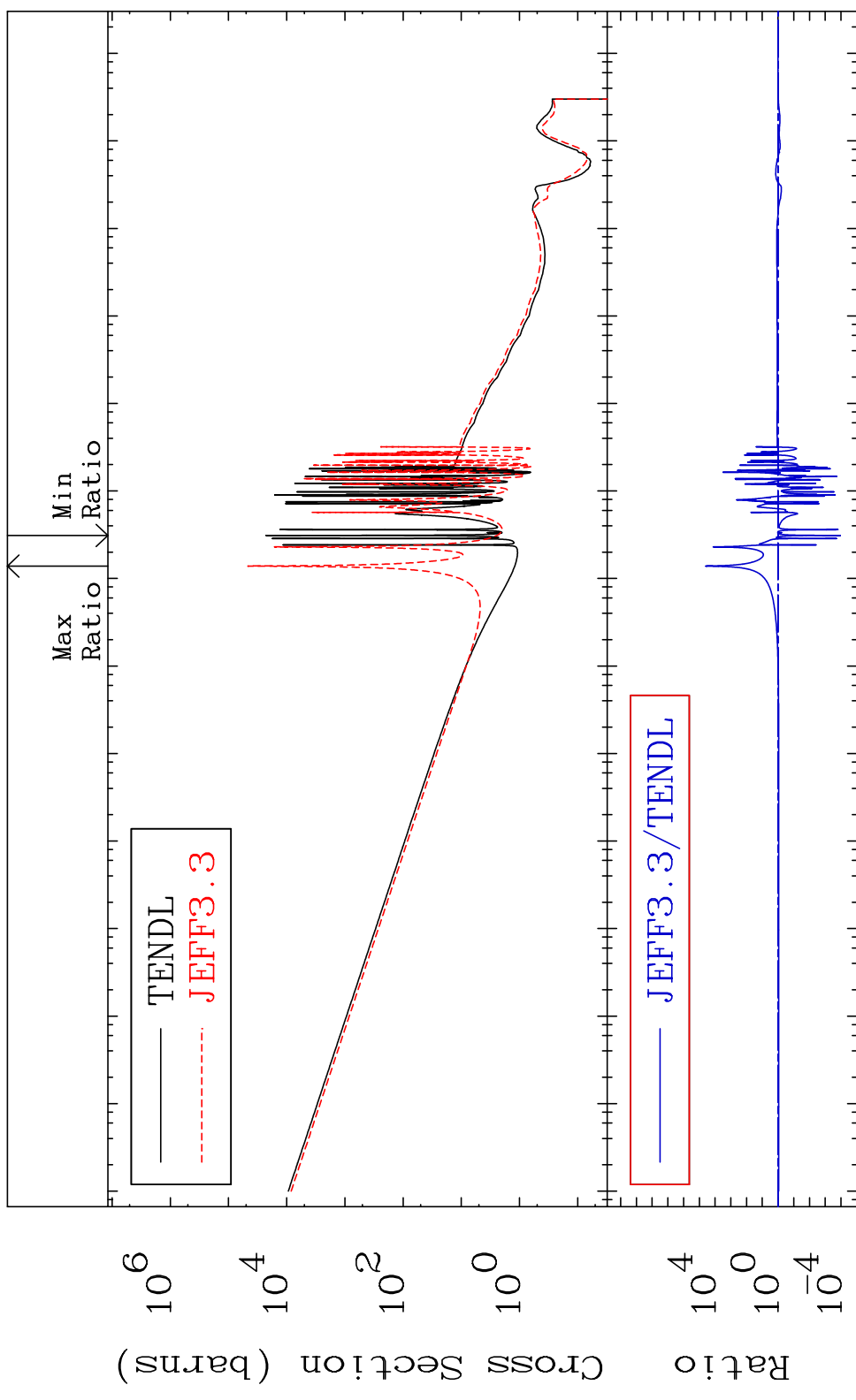
70 Incident Energy (eV) 40-Zr-95

MAT 4040 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-95
 Cross Section -100.0 To 126.8 %



MAT 4040

Kerma capture (mt102) 40-Zr-95
Cross Section -99.99 To 9999. %

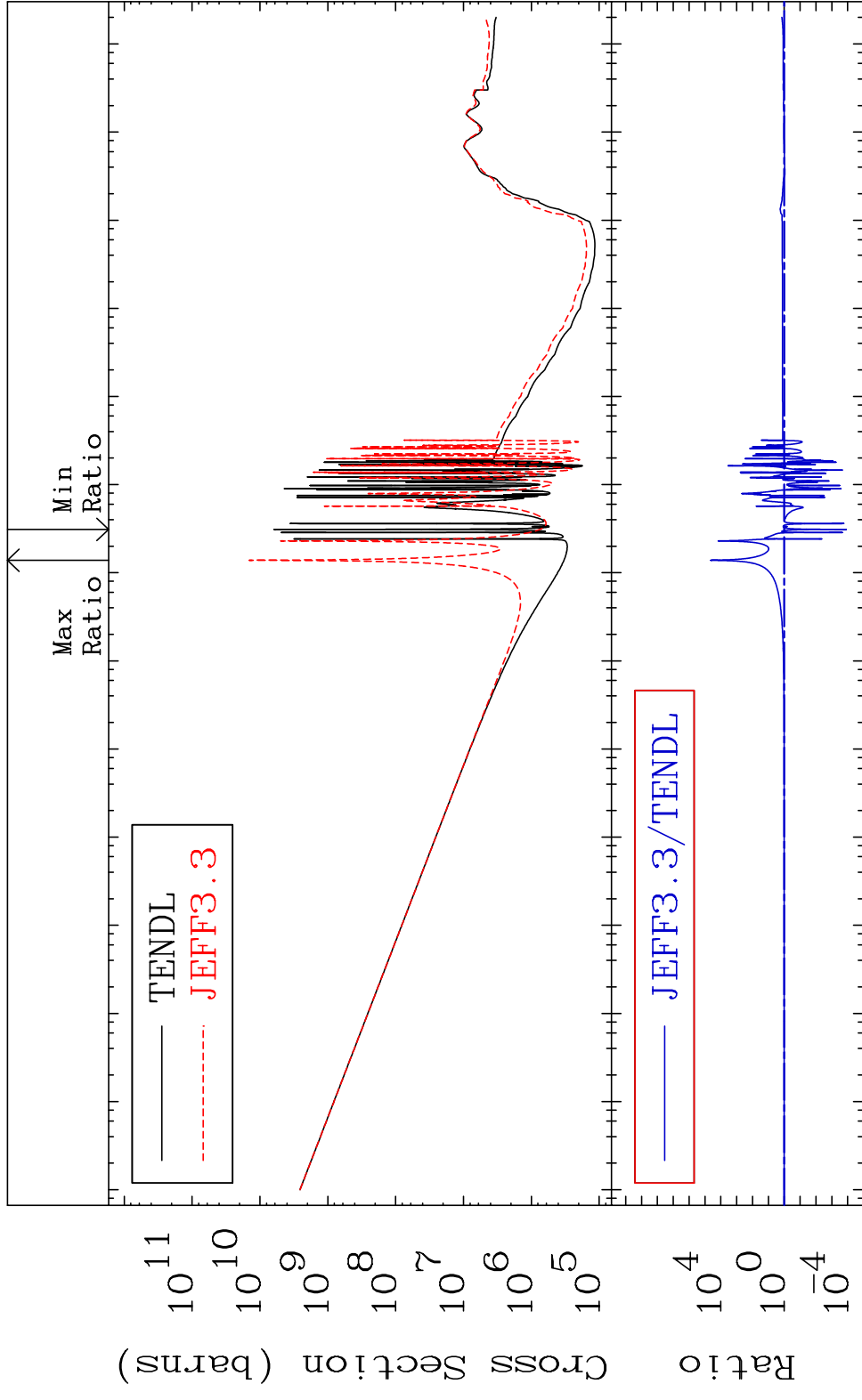


72

Incident Energy (eV)

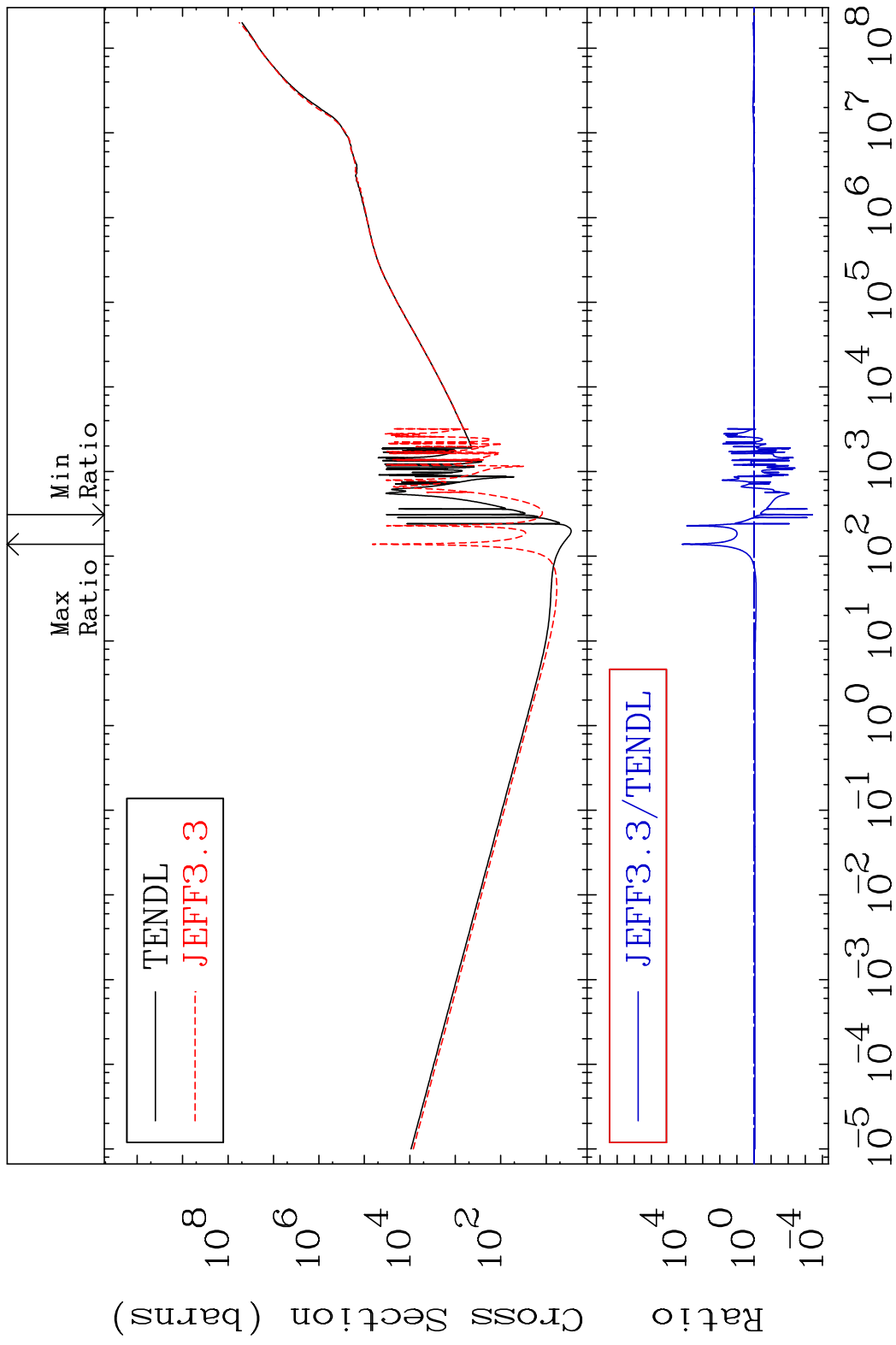
40-Zr-95

MAT 4040 Total photon (eV-barns) 40-Zr-95
 Cross Section -99.99 To 9999. %

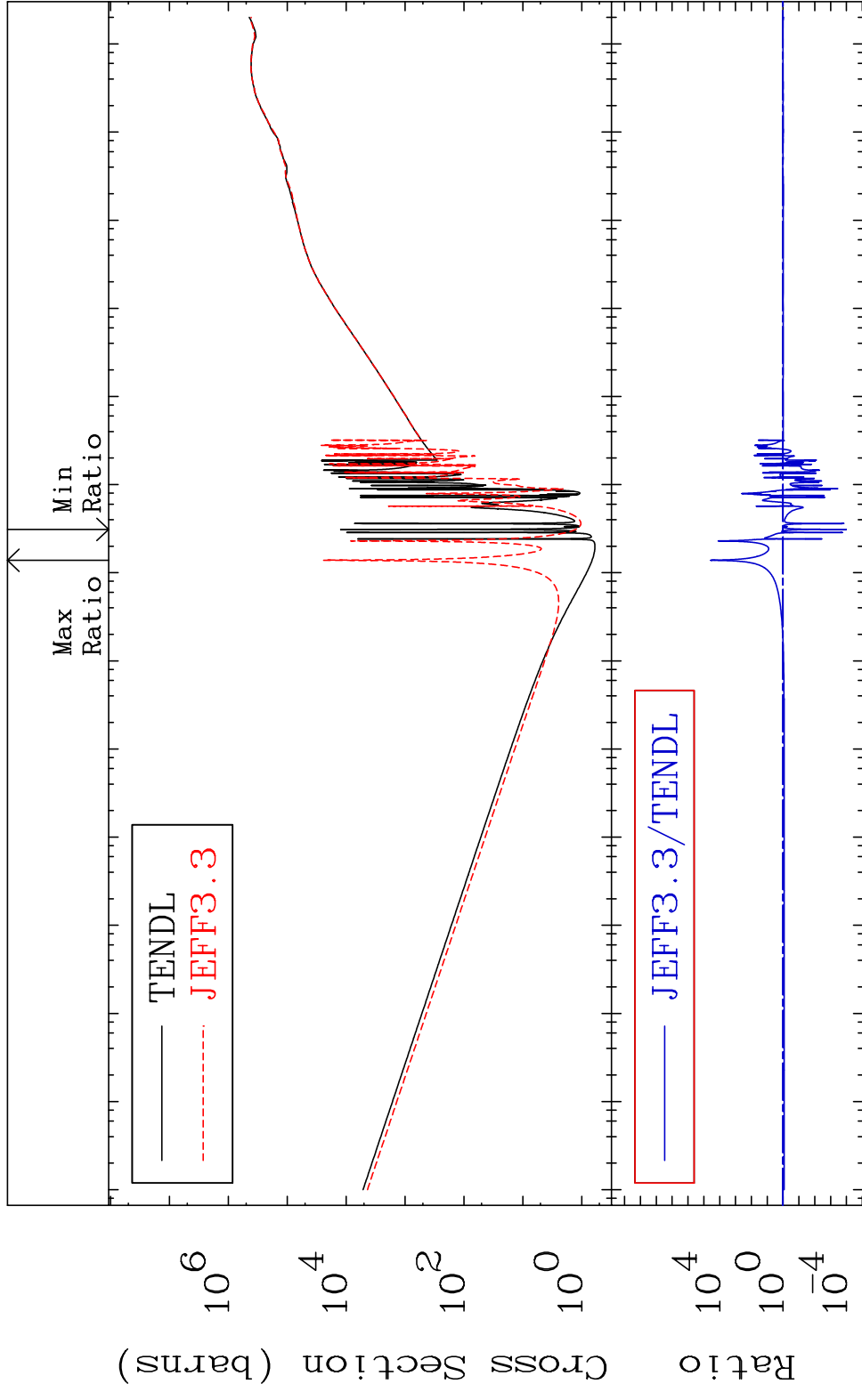


73 Incident Energy (eV) 40-Zr-95

MAT 4040 Total kinematic kerma (high limit) 40-Zr-95
 Cross Section -99.96 To 9999. %

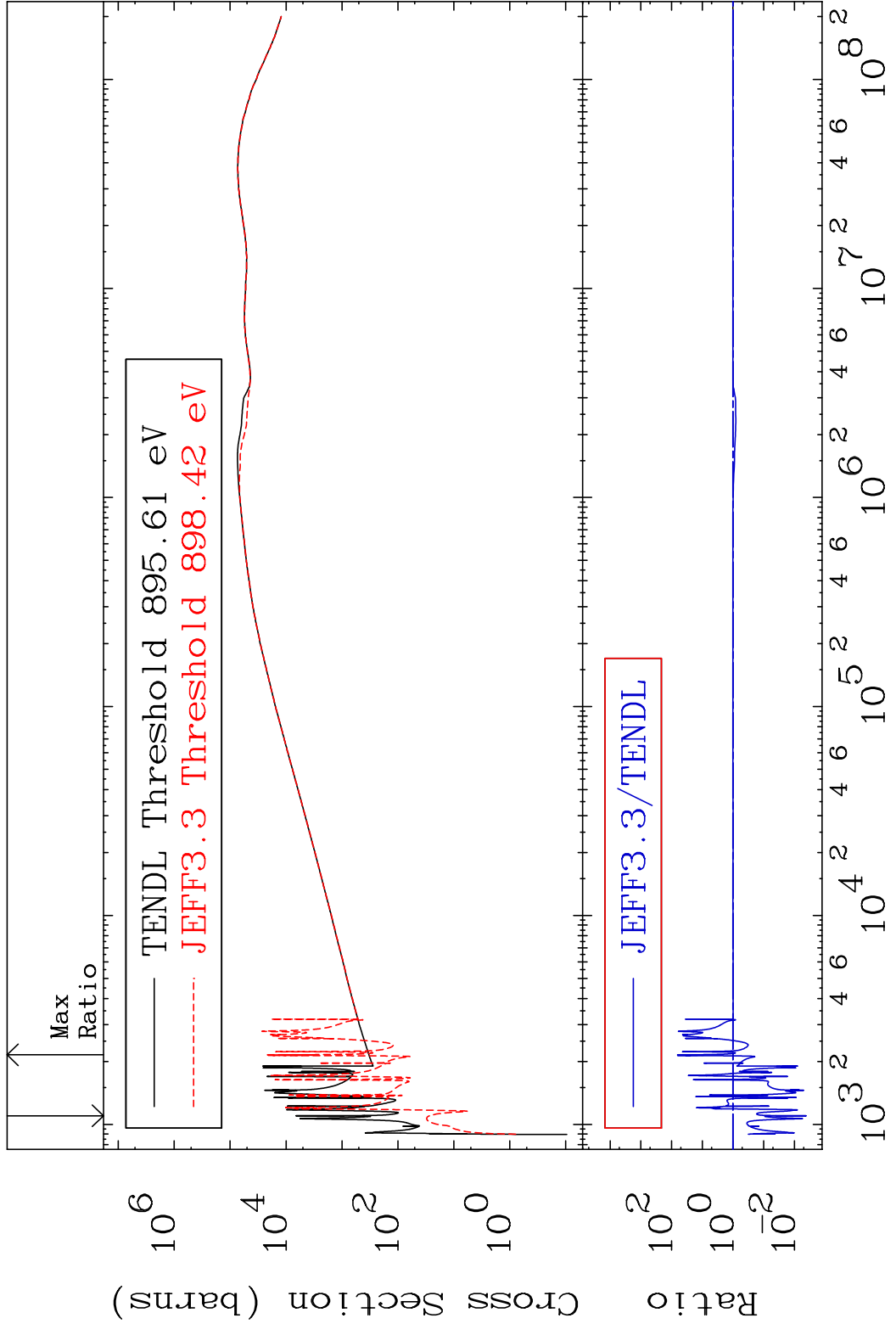


MAT 4040 Dpa total (eV-barns) 40-Zr-95
 Cross Section -99.99 To 9999. %



75 Incident Energy (eV) 40-Zr-95

MAT 4040 Dpa elastic (mt2) 40-Zr-95
 Cross Section -99.59 To 6456. %

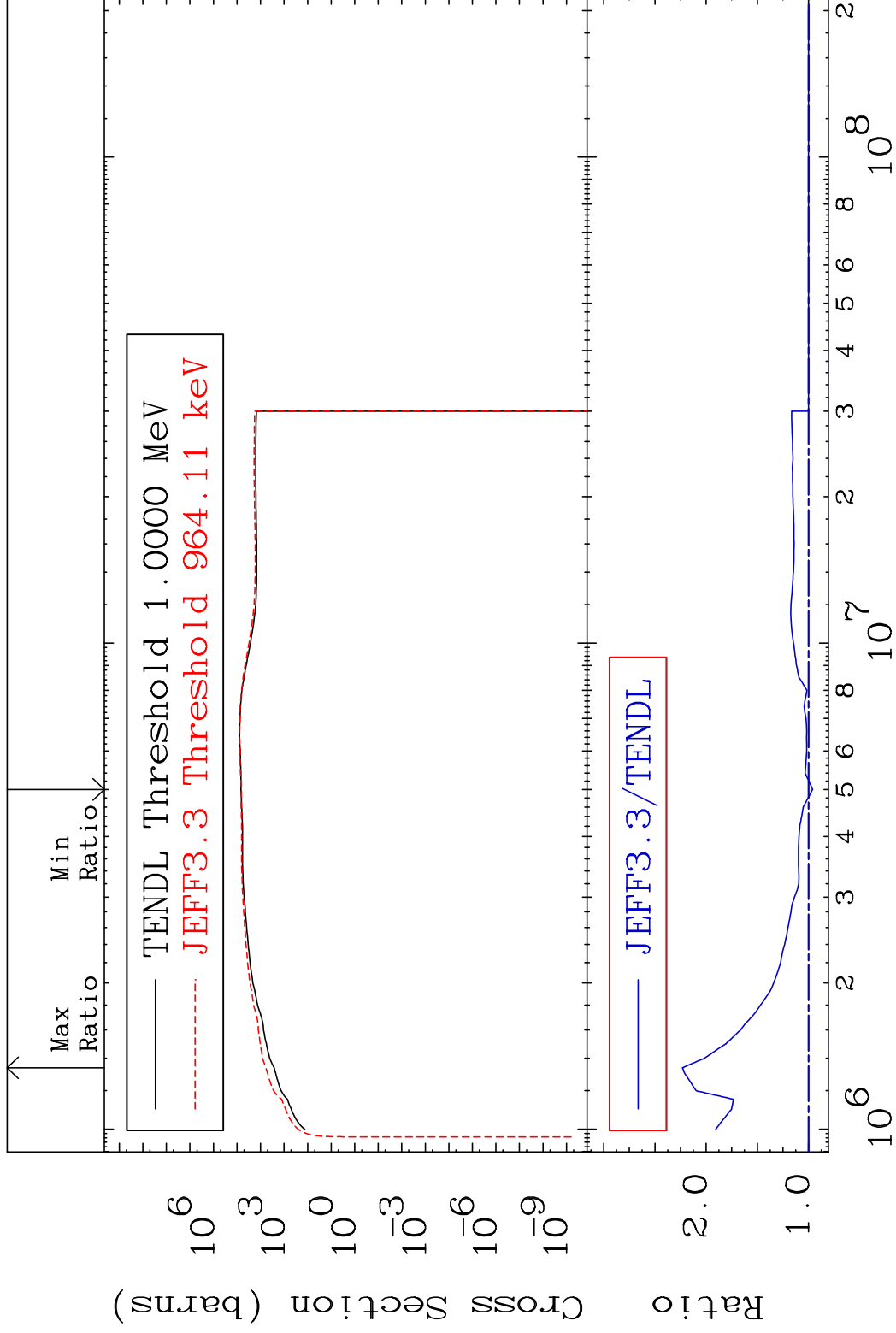


76 Incident Energy (eV) 40-Zr-95

MAT 4040

Dpa inelastic (mt51-91) 40-Zr-95

Cross Section -3.947 To 123.2 %

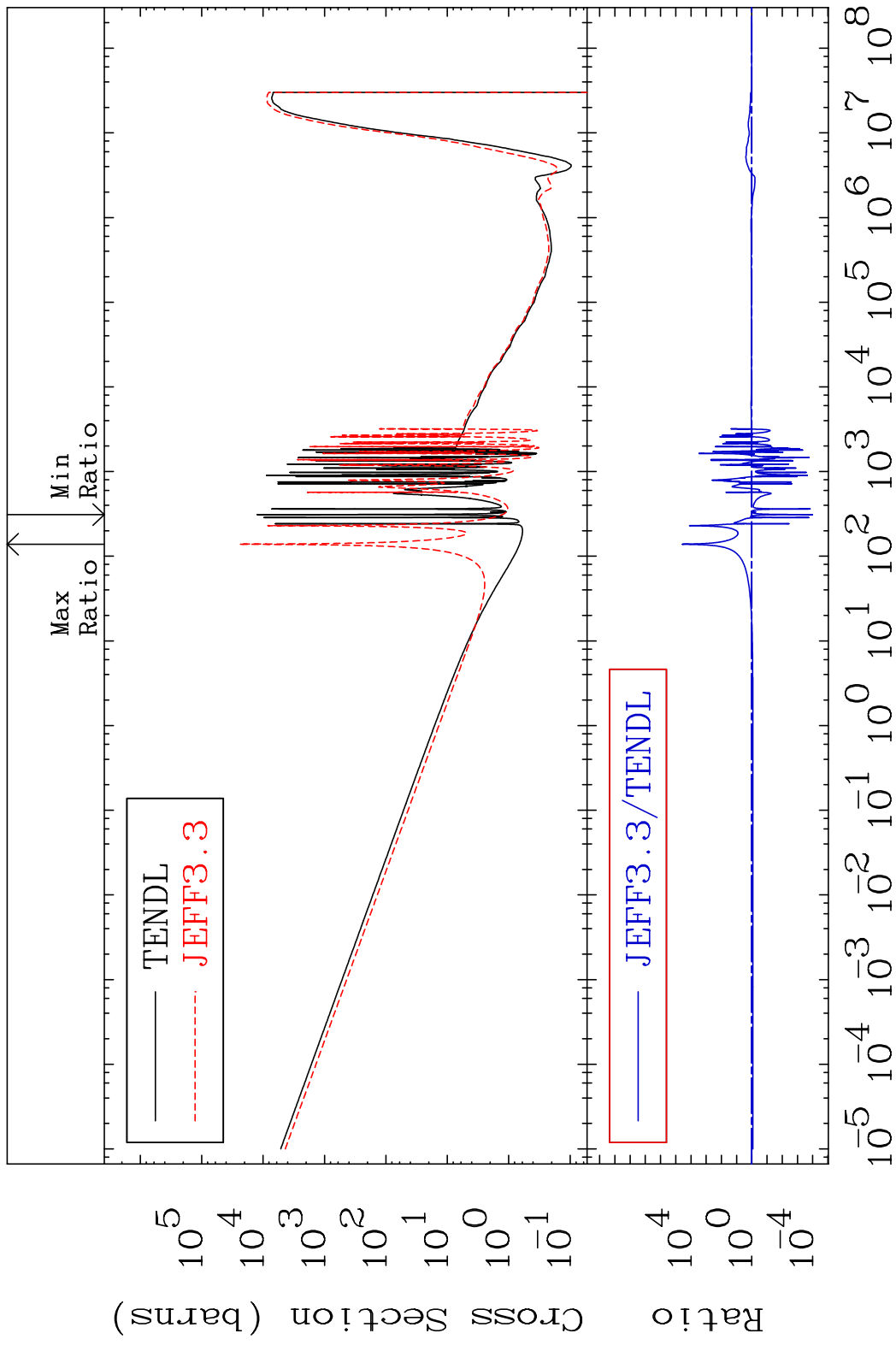


77

Incident Energy (eV)

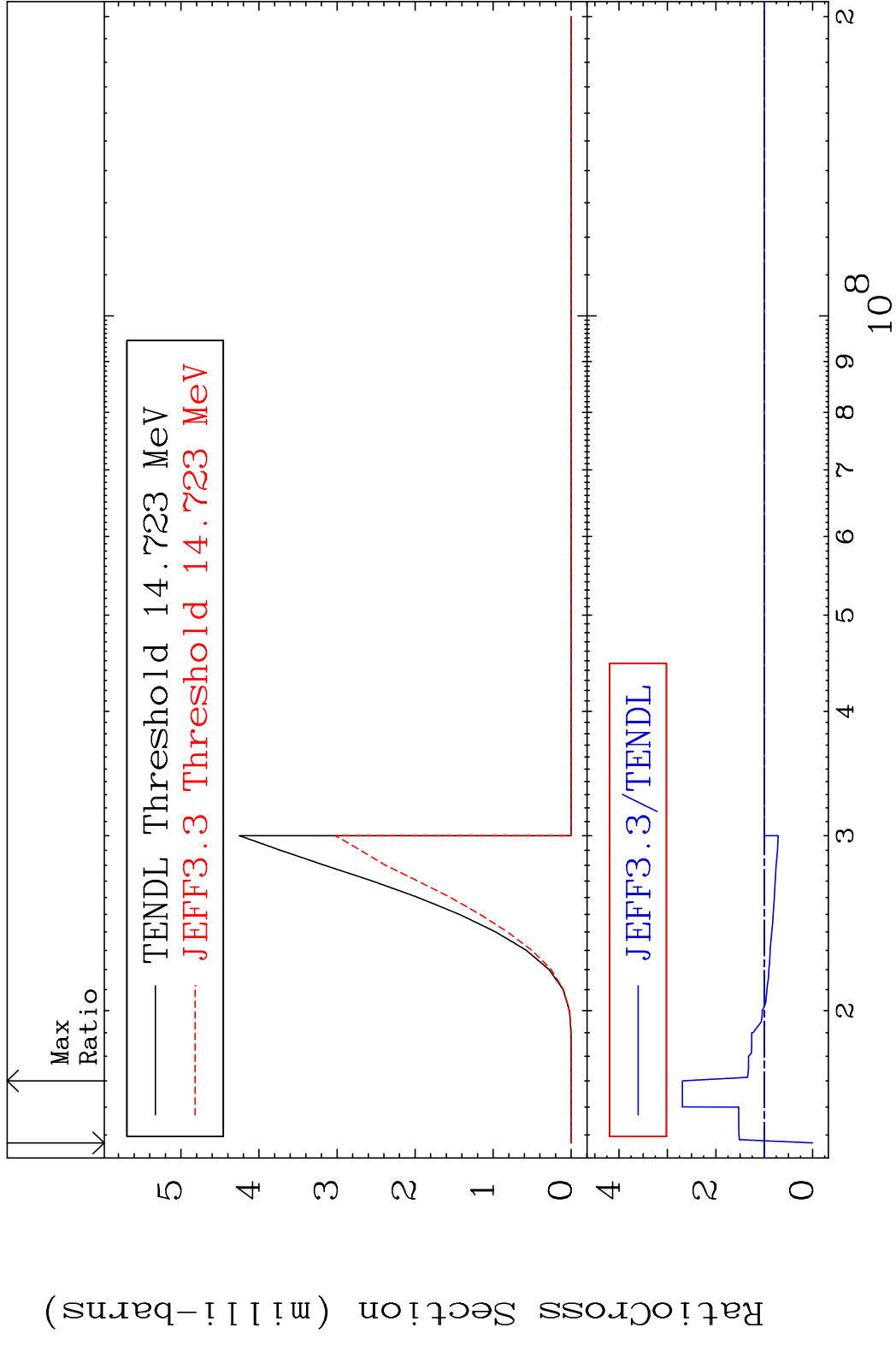
40-Zr-95

MAT 4040 Dpa disappearance (mt102 -120) 40-Zr-95
 Cross Section -99.99 To 9999. %

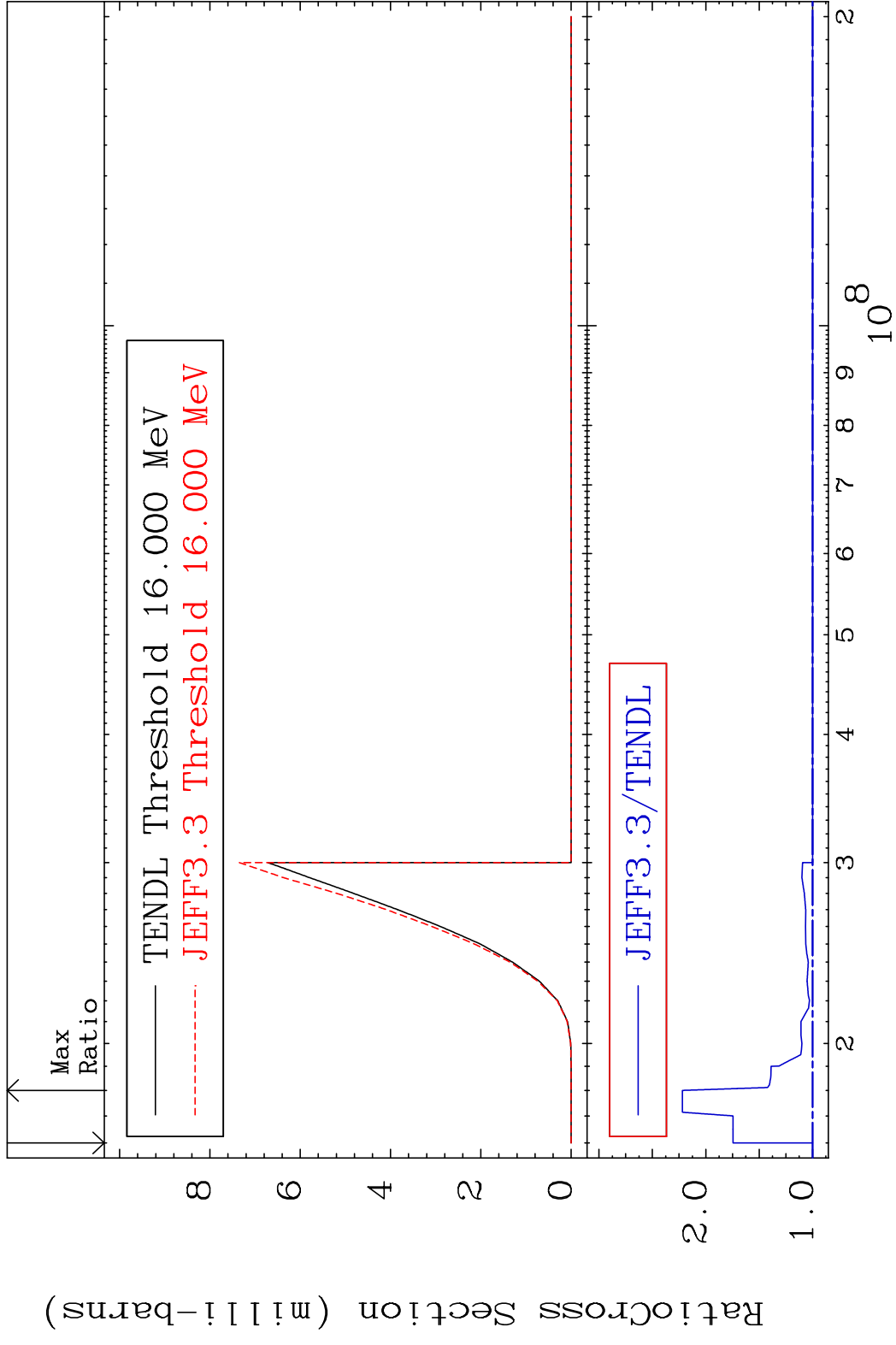


78 Incident Energy (eV) 40-Zr-95

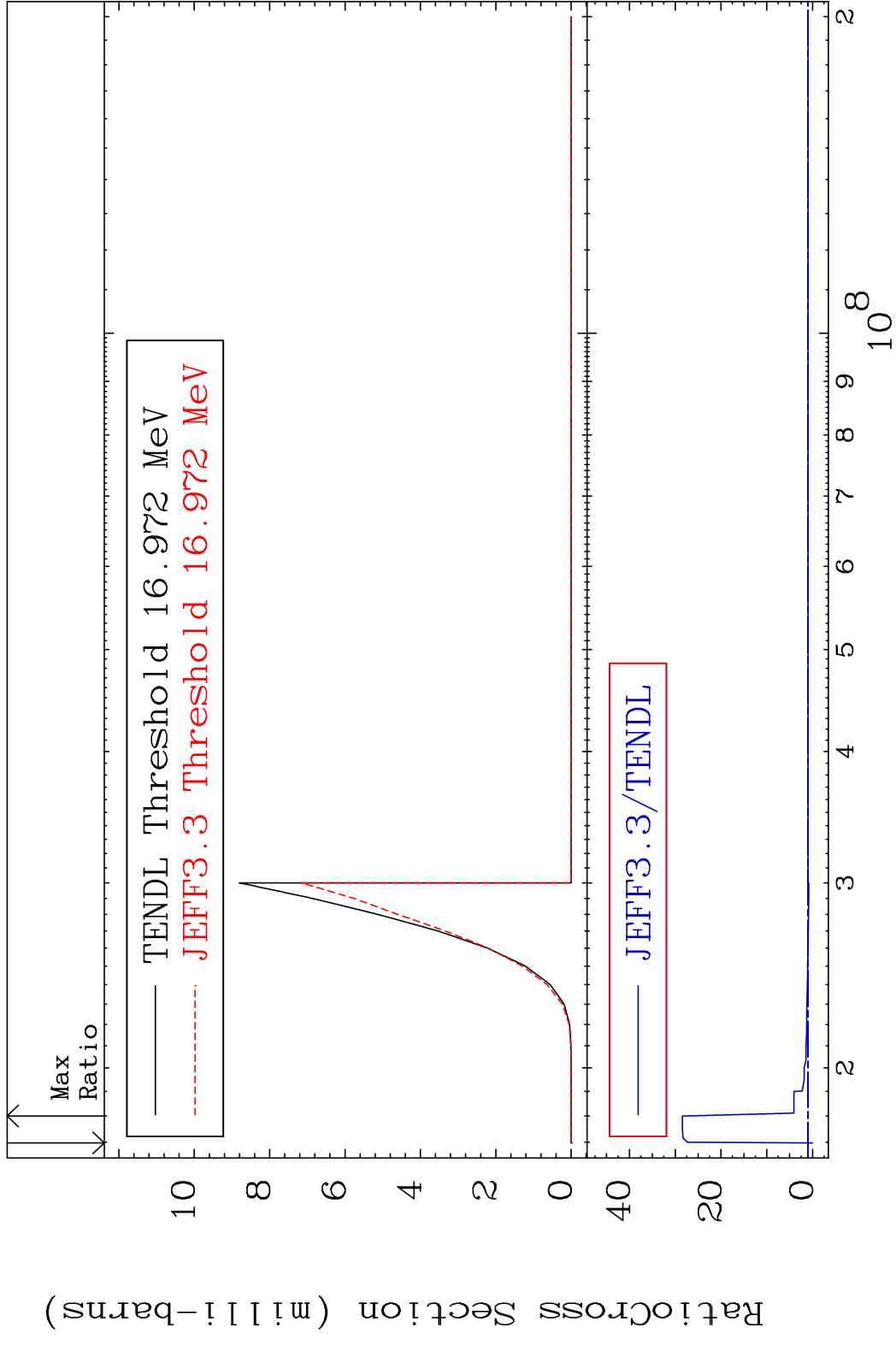
MAT 4040 (n, n') d:39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 180.0 dth 169.1 %



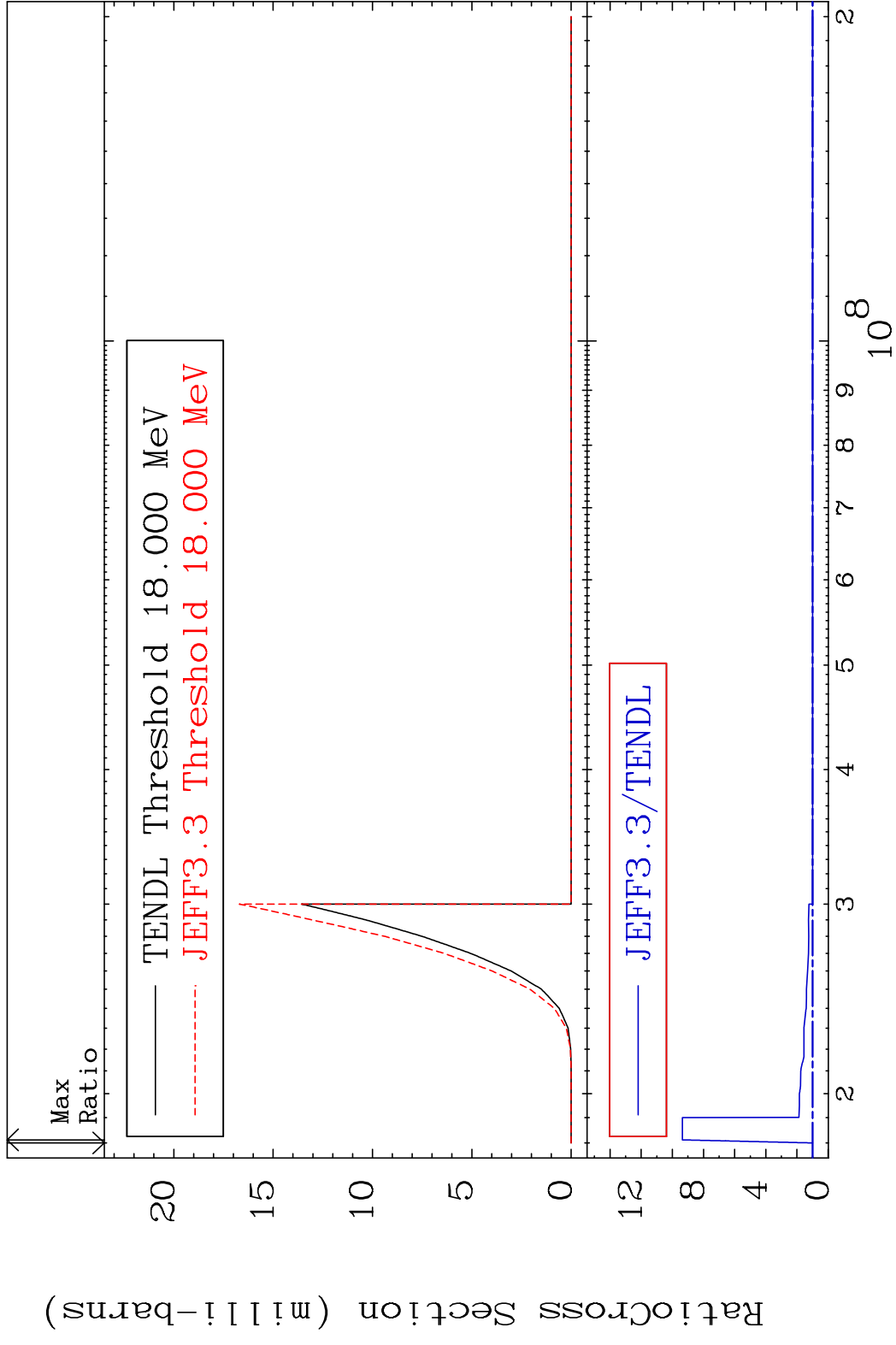
MAT 4040 (n, n') d:39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 121.9 %



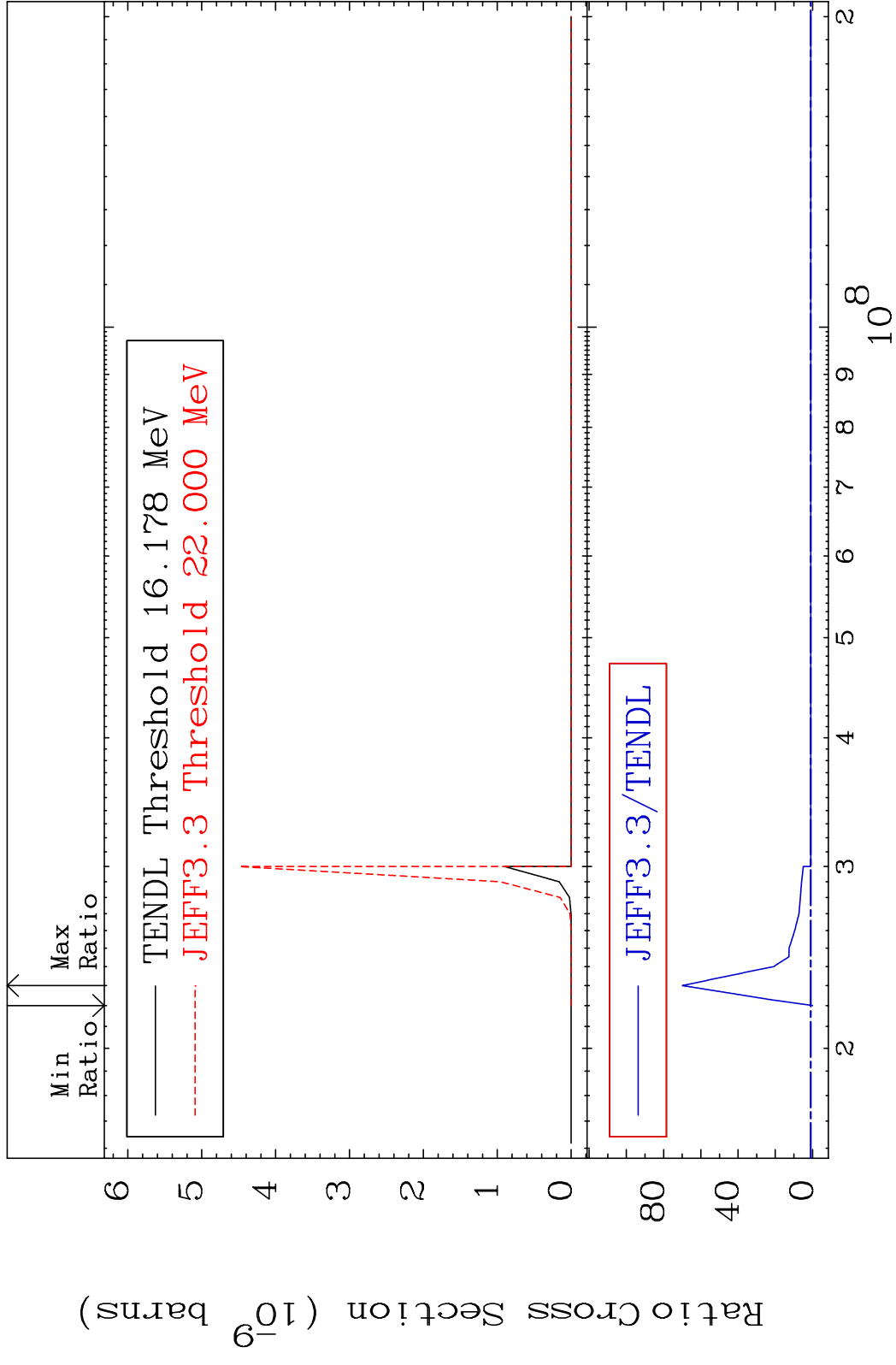
MAT 4040 (n,2n) p:39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 180.01 dno 2744. %



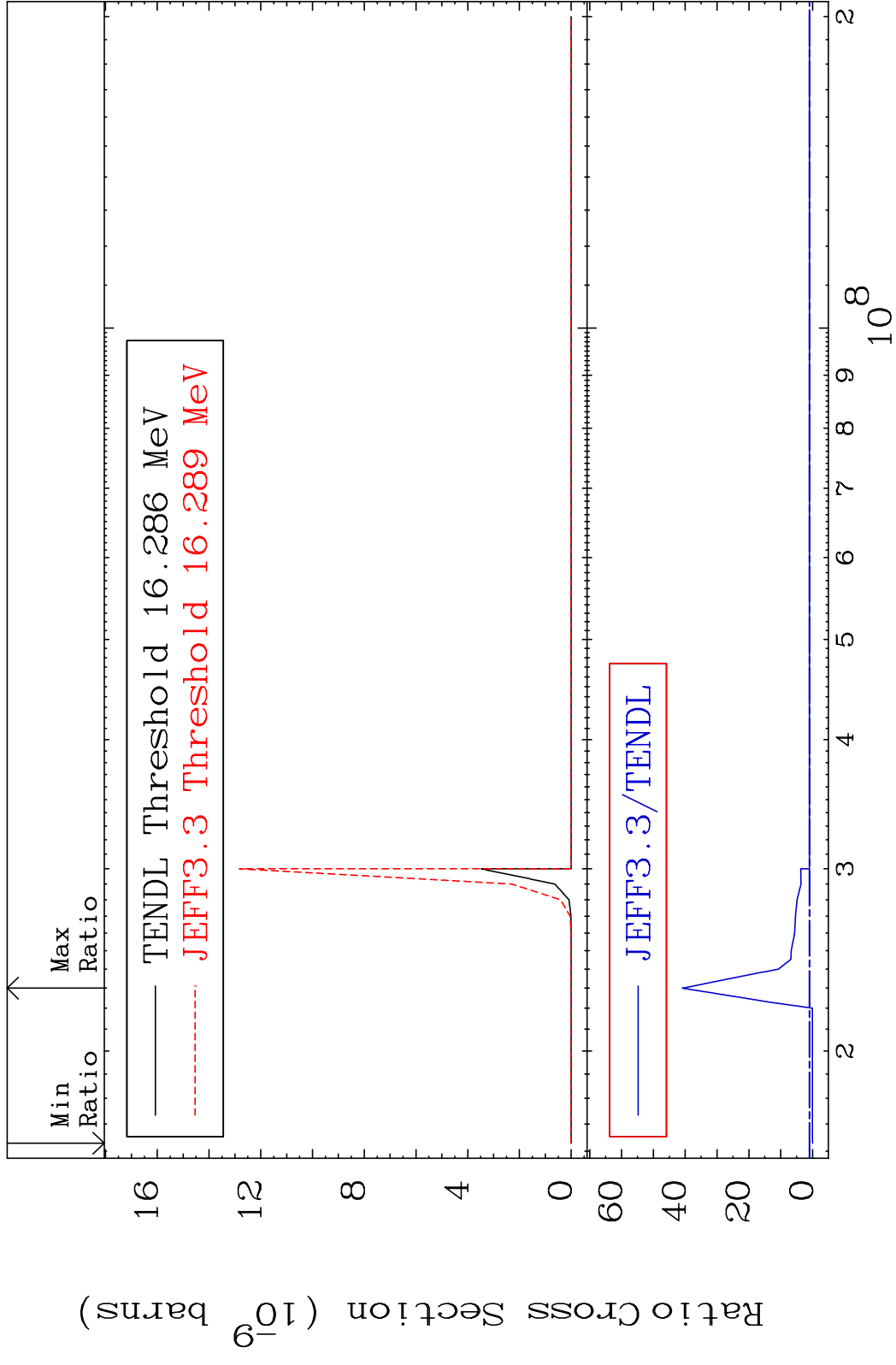
MAT 4040 (n,2n) p:39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 835.8 %



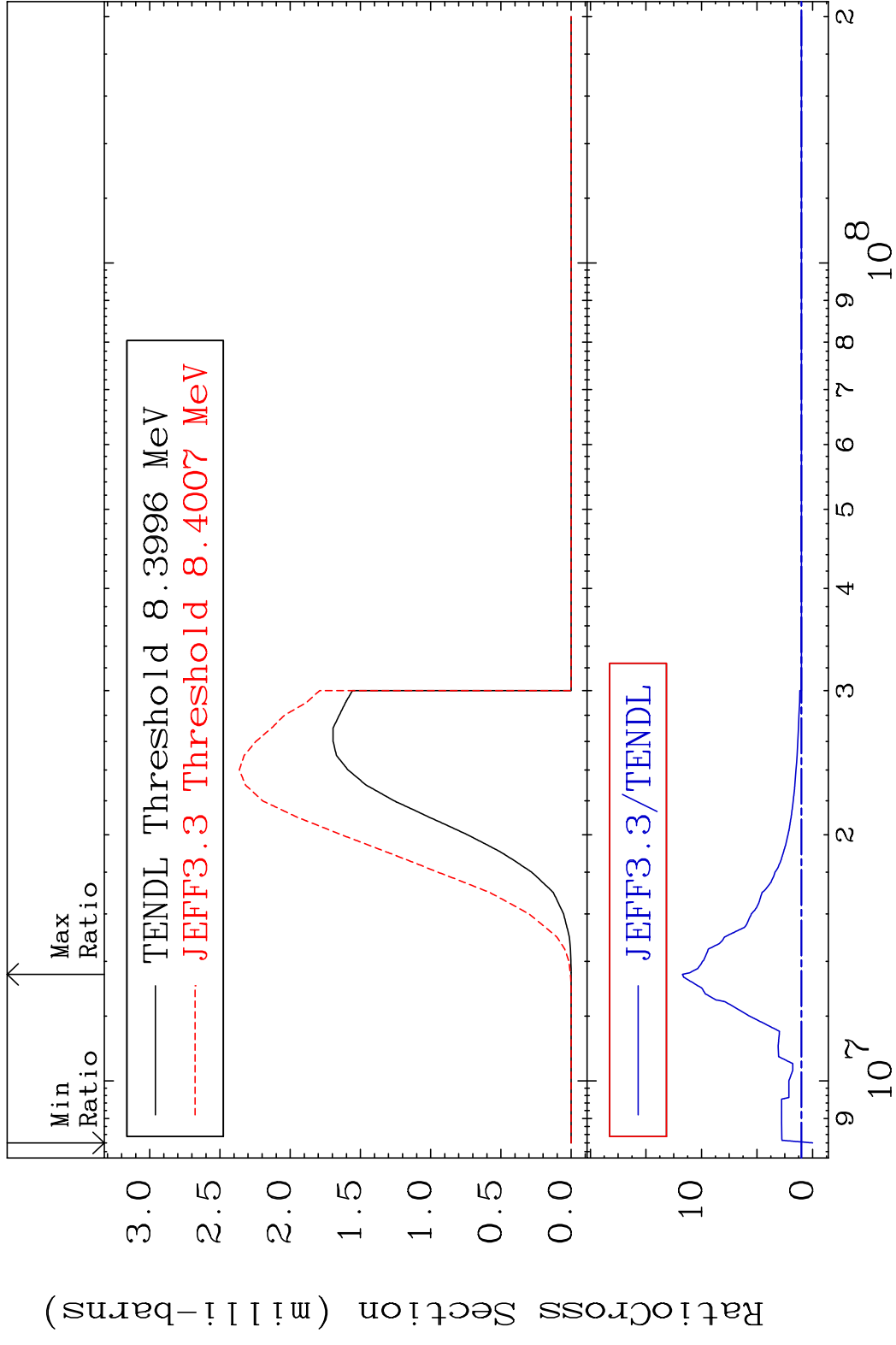
MAT 4040 (n, n') p α:37-Rb-90g 40-Zr-95
 Radionuclide Production Cross Section Ratio 6892. %



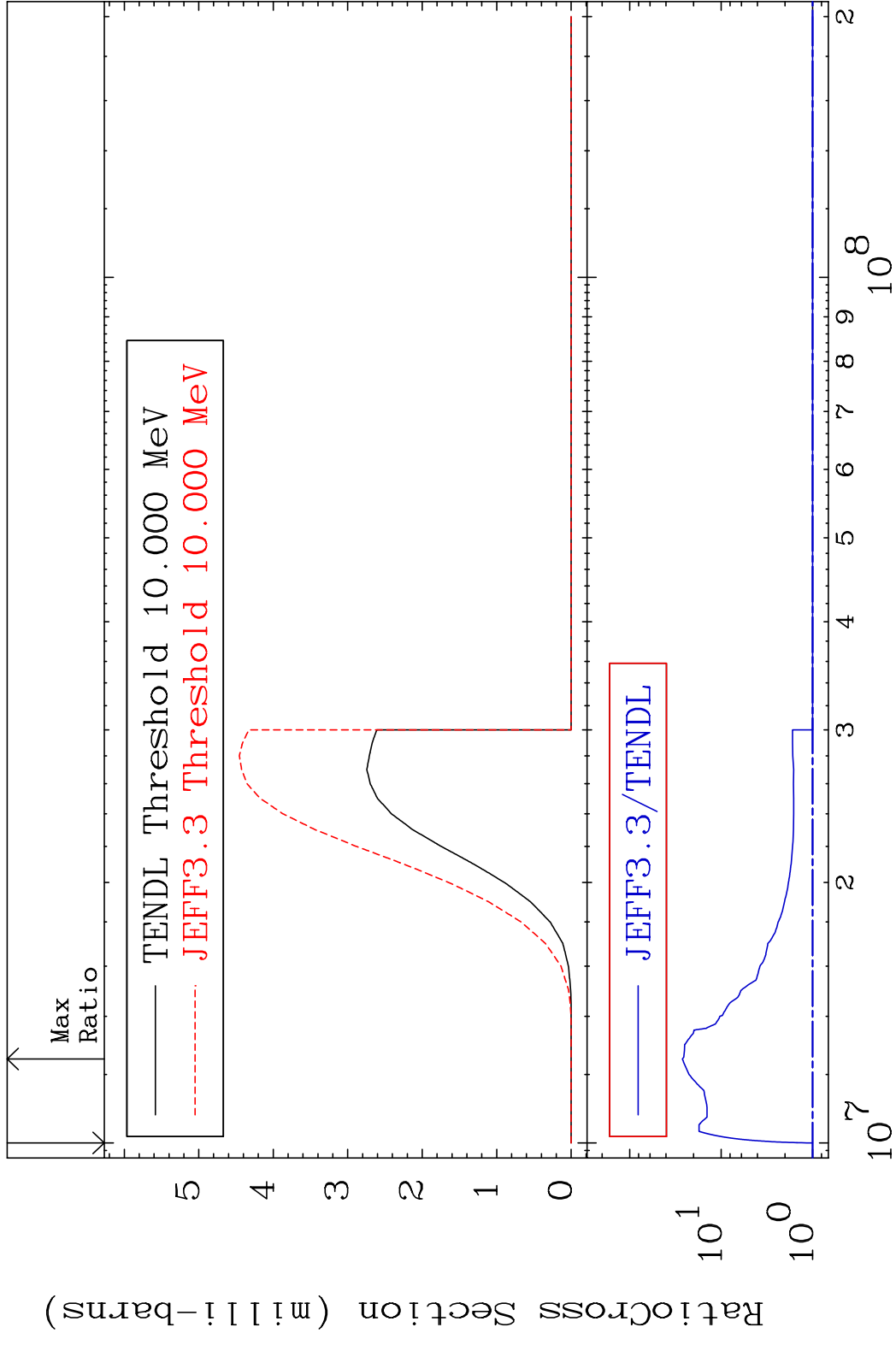
MAT 4040 (n, n') p α:37-Rb-90m1 40-Zr-95
 Radionuclide Production Cross Section 1800 d to 3989. %



MAT 4040 (n, t):39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 100% 1072. %

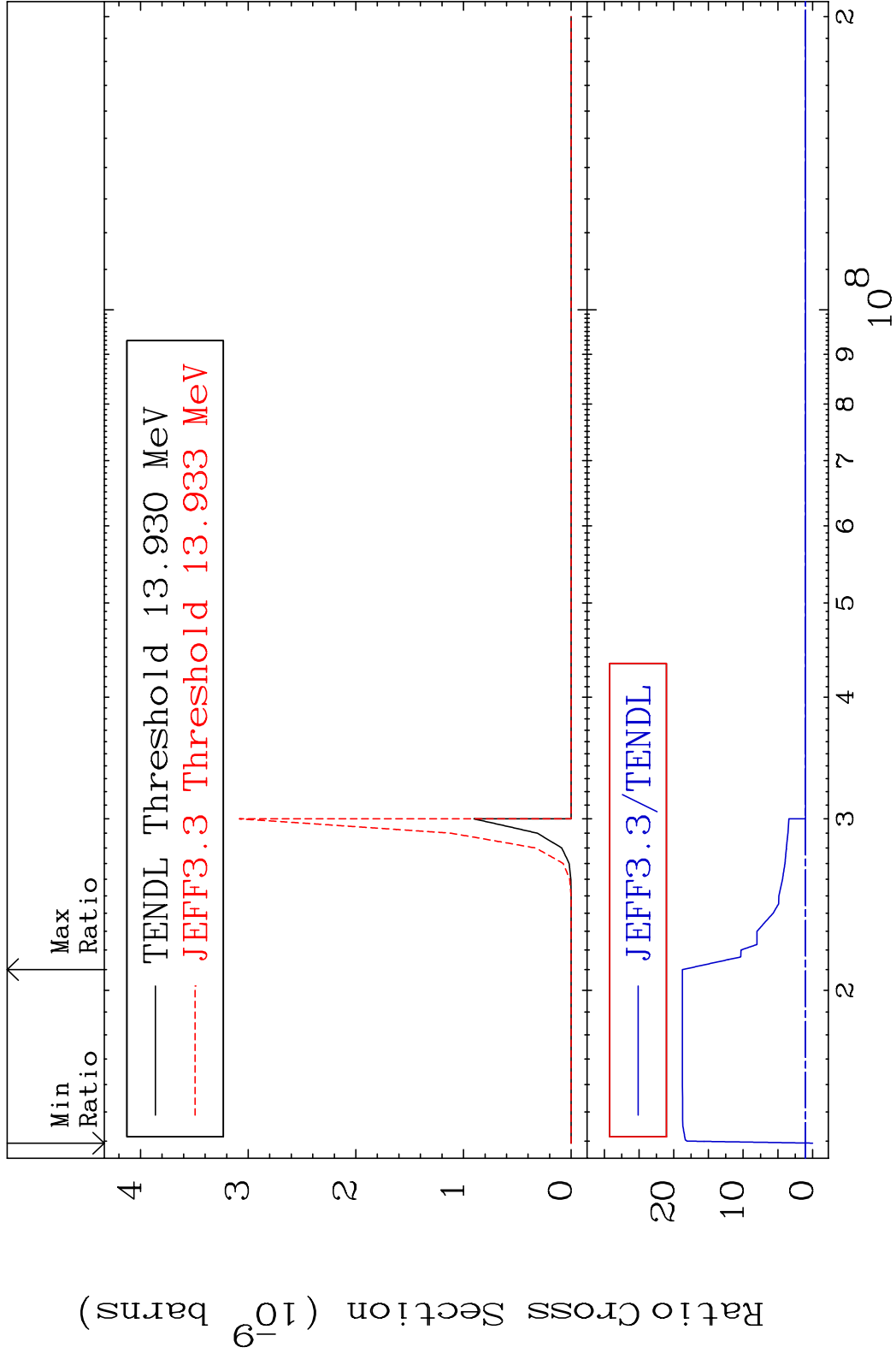


MAT 4040 (n,t):39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 2555. %



86 40-Zr-95

MAT 4040 (n, d) α :37-Rb-90g 40-Zr-95
 Radionuclide Production Cross Section 1800 dth 1776. %



MAT 4040 (n, d) α :37-Rb-90m1 40-Zr-95
 Radionuclide Production Cross Section Ratio 1694.0 %

