

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

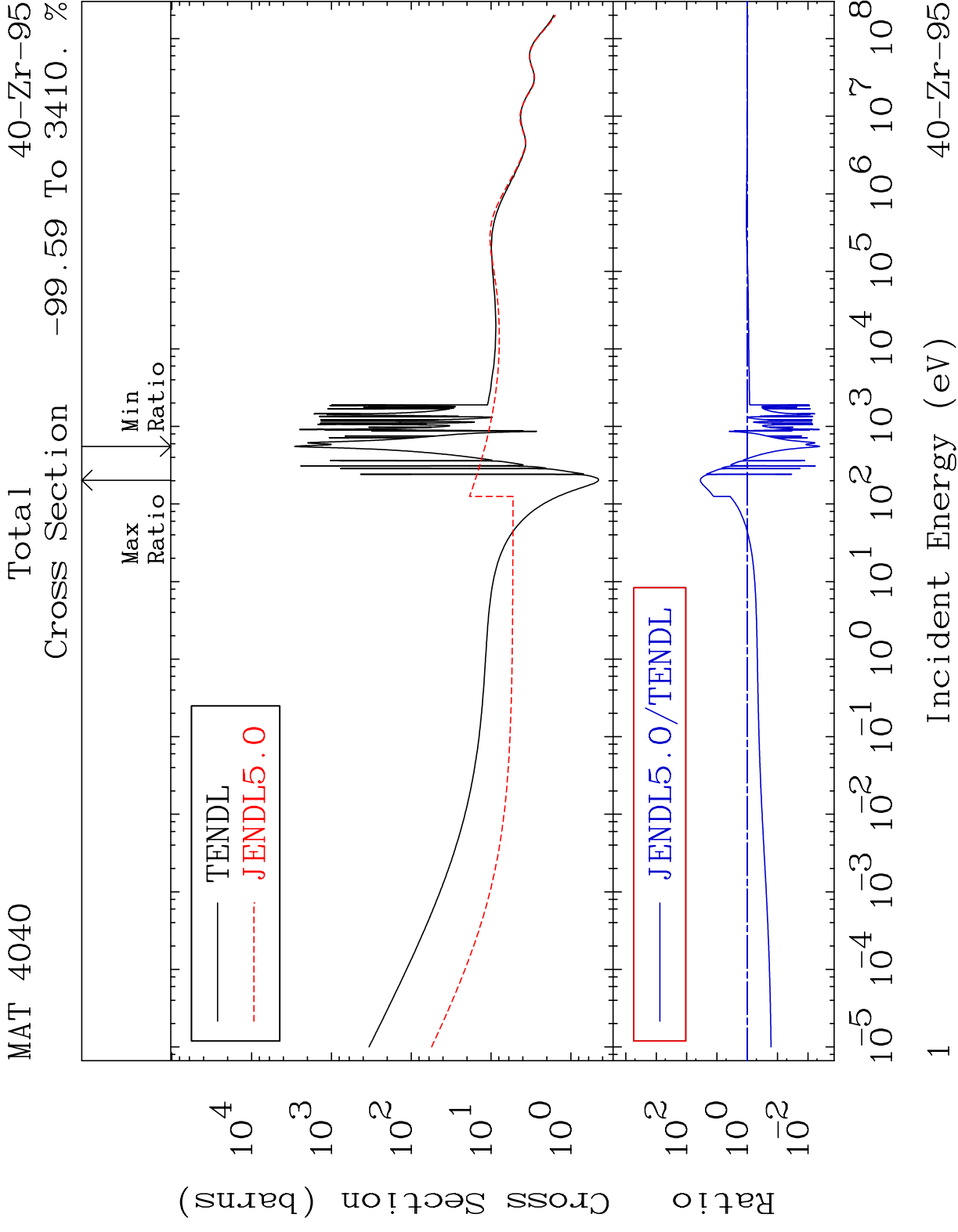
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Livermore, CA 94550

U.S.A.

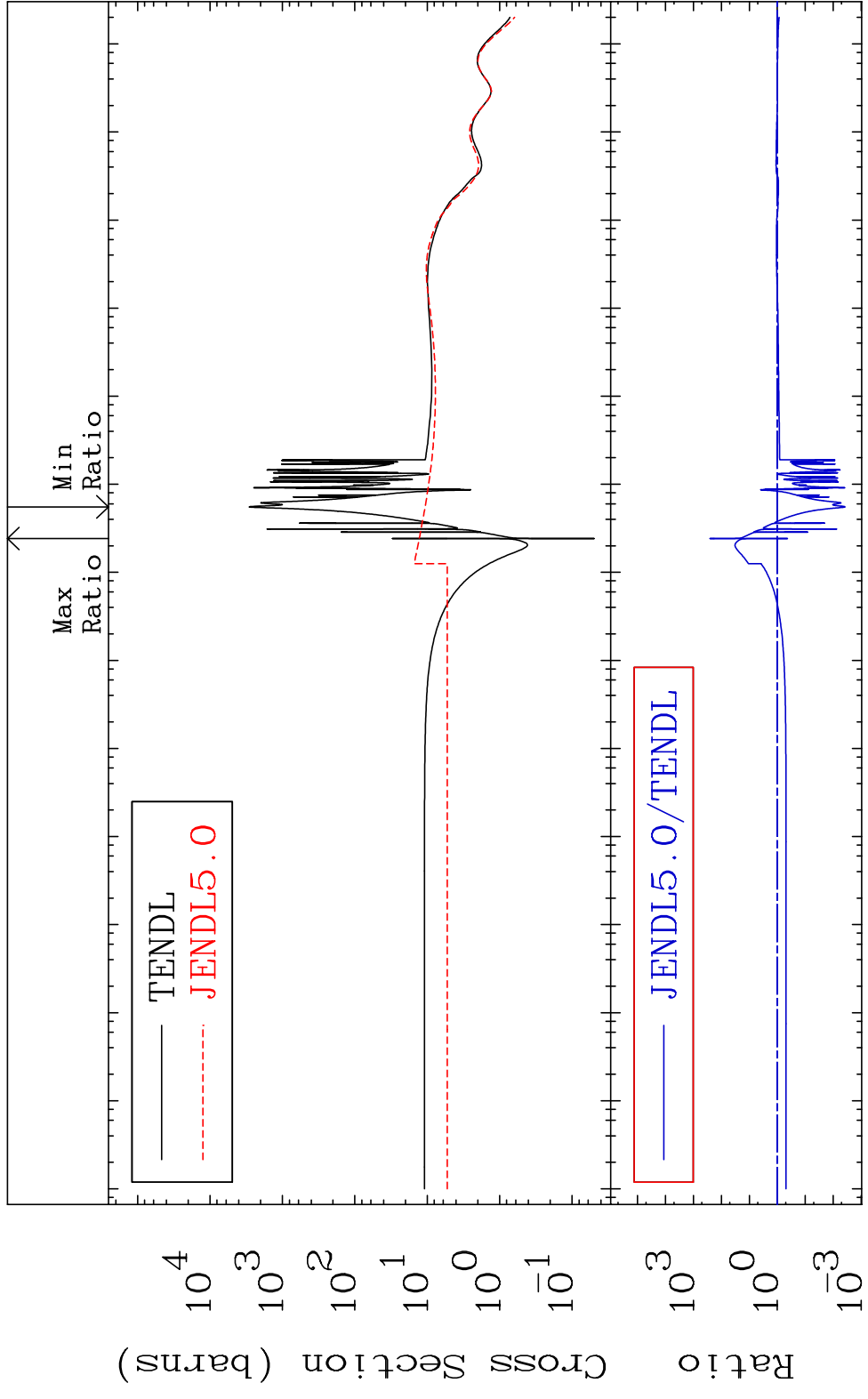
Tele: 925-443-1911

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

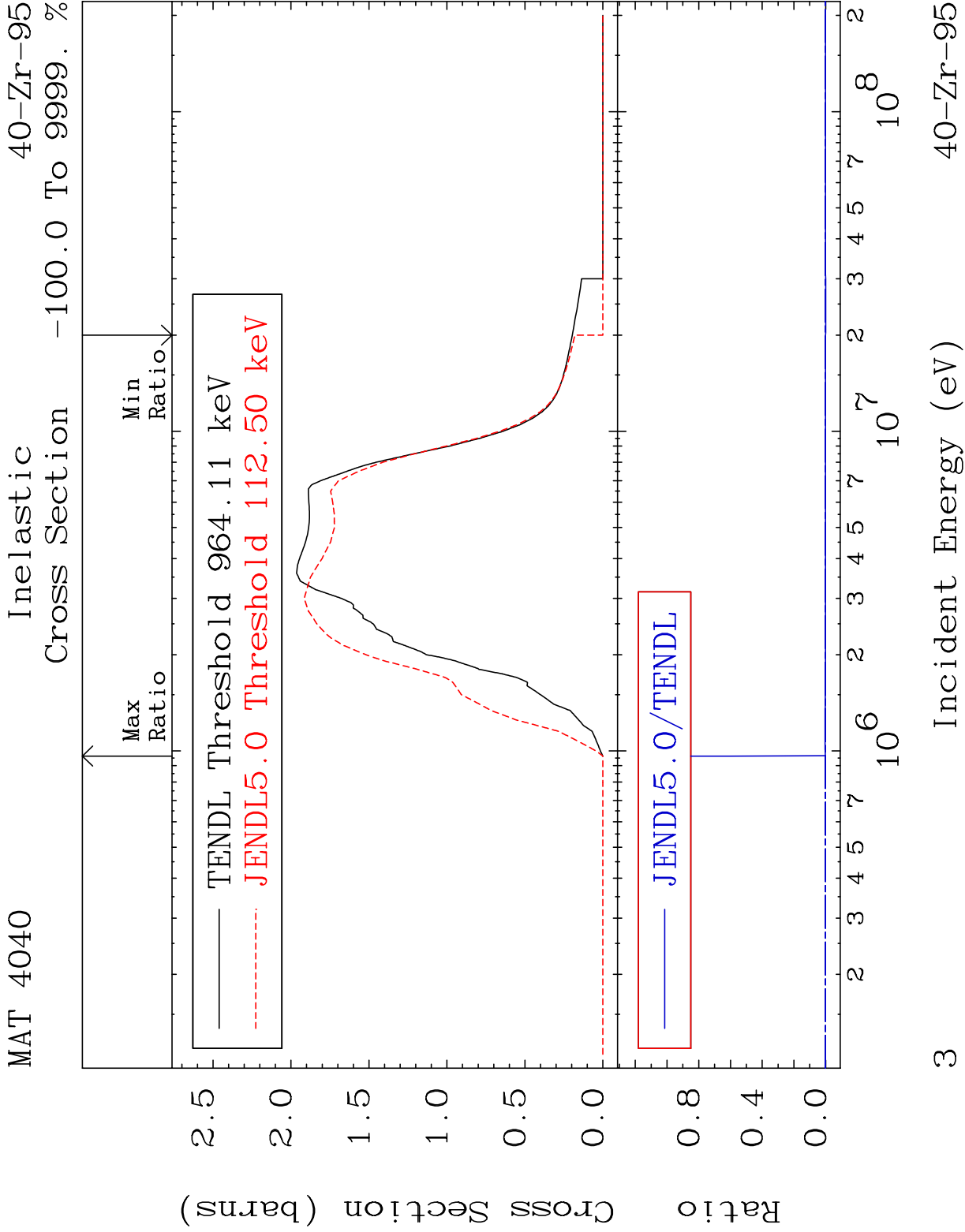
Press Mouse Button to Start



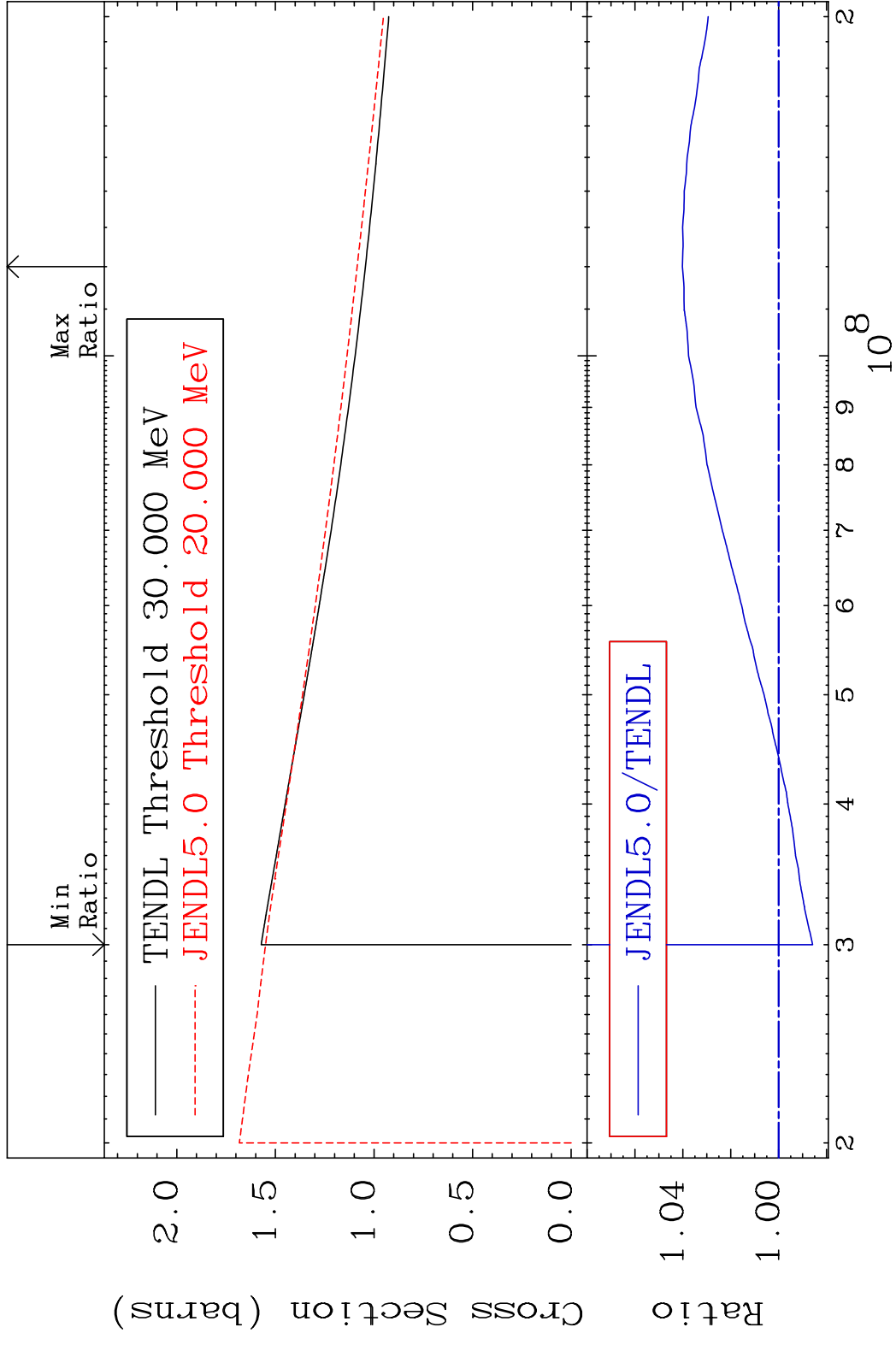
MAT 4040 Elastic 40-Zr-95
Cross Section -99.63 To 9999. %



10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV) 40-Zr-95

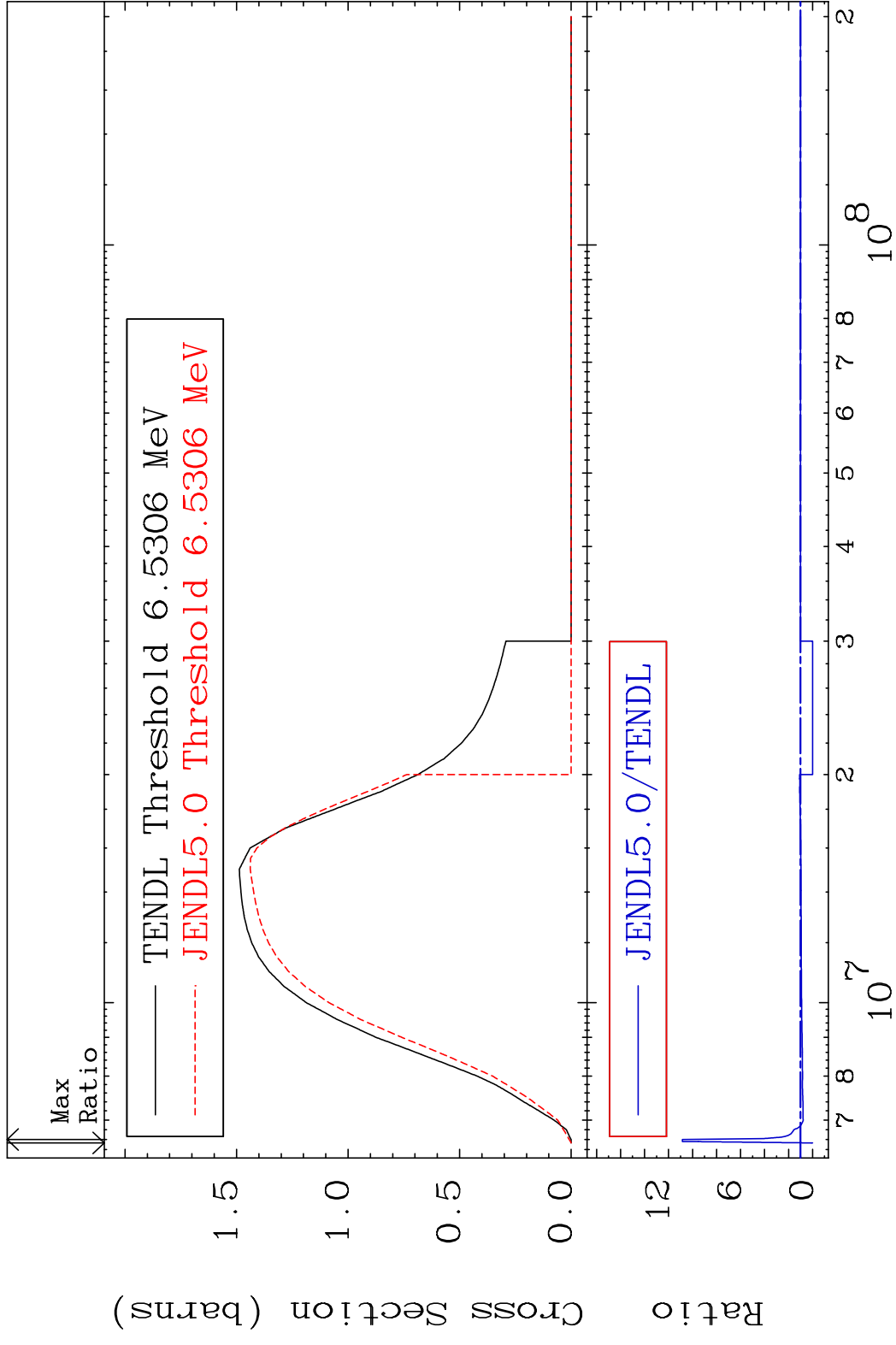


MAT 4040 (n, remainder) 40-Zr-95
 Cross Section -1.413 To 4.023 %



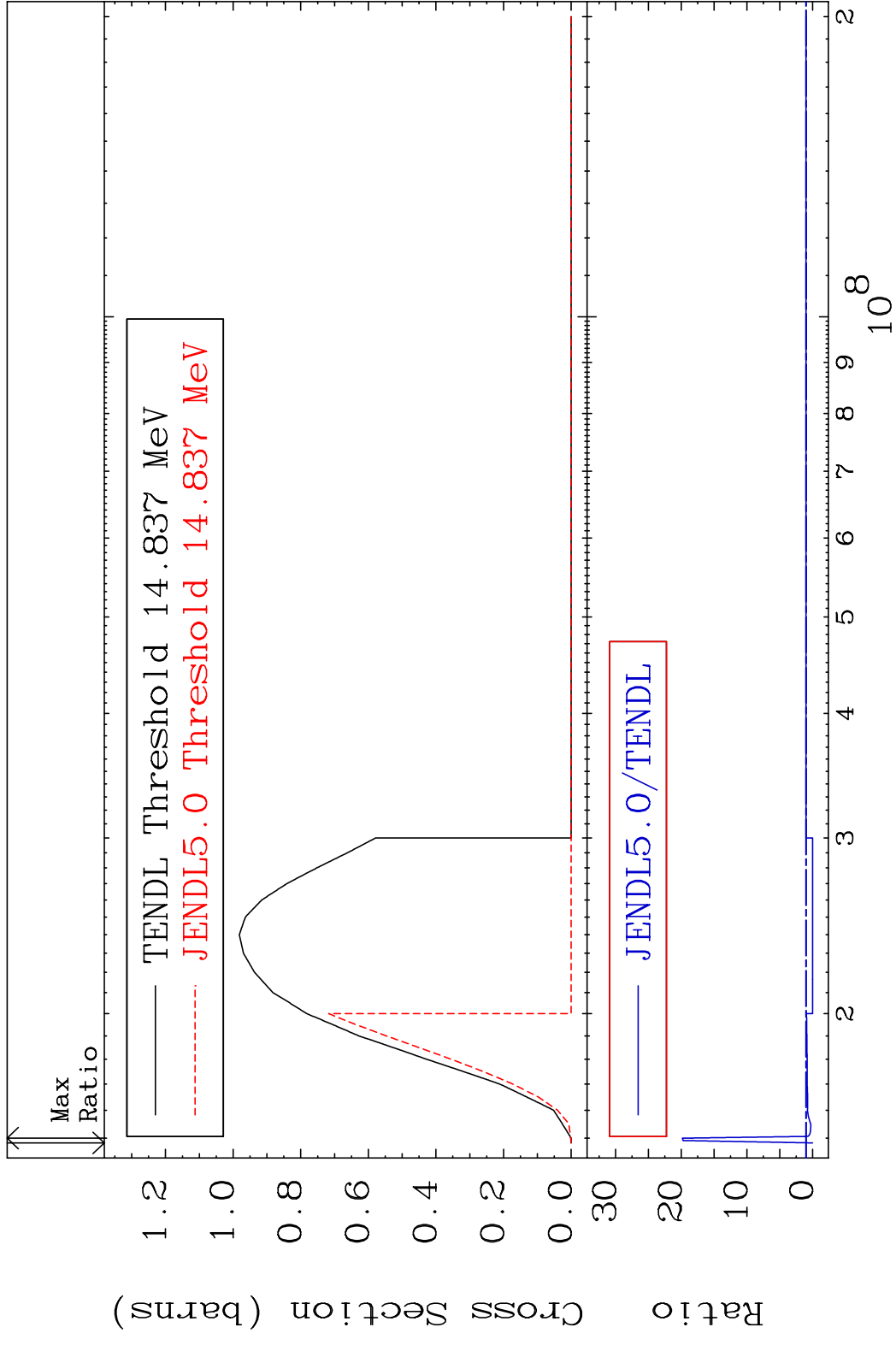
4 Incident Energy (eV) 40-Zr-95

MAT 4040 (n,2n) 40-Zr-95
 Cross Section -100.0 To 984.9 %

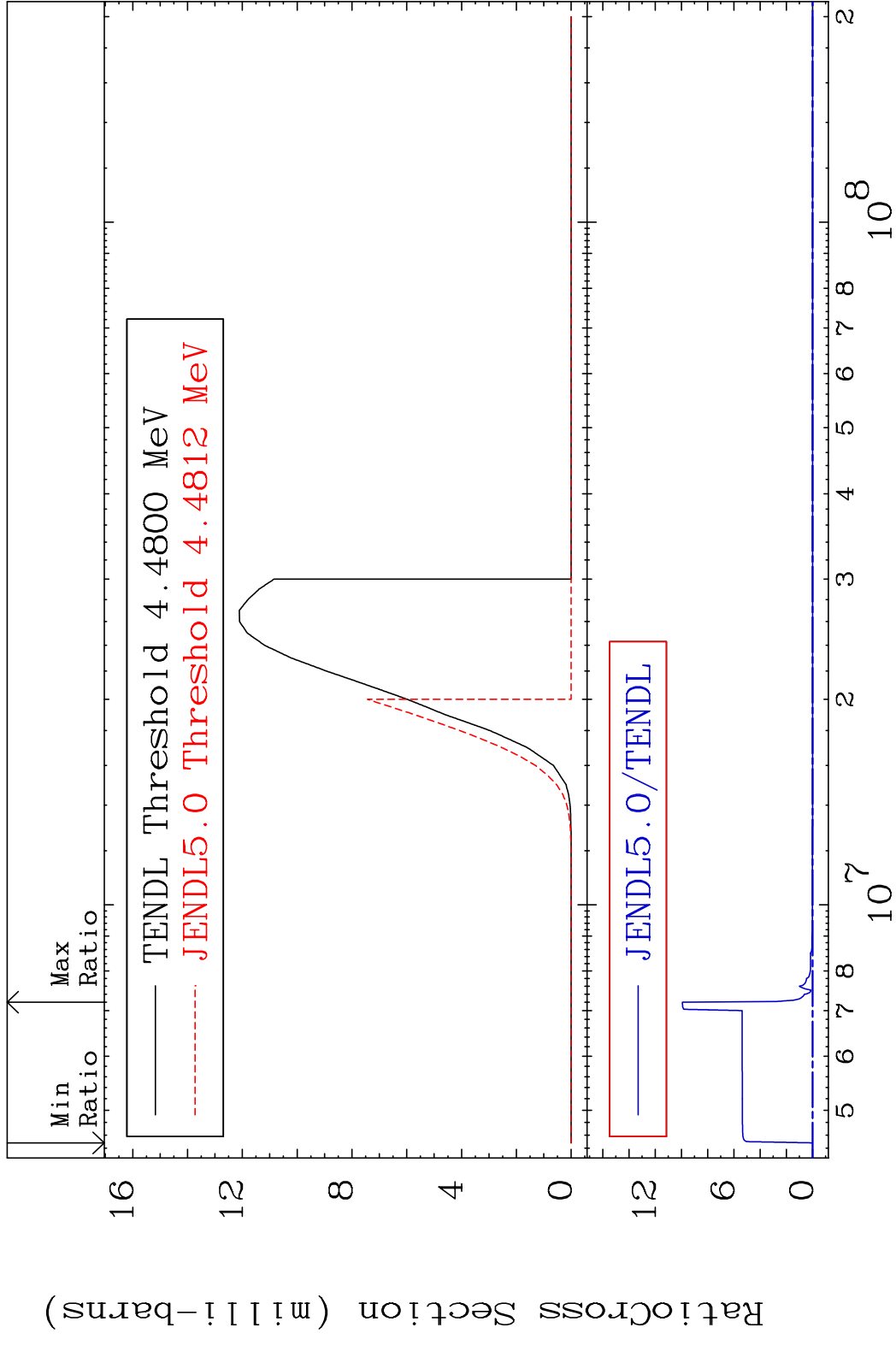


5 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2 40-Zr-95

MAT 4040 (n,3n) 40-Zr-95
 Cross Section -100.0 To 1883. %

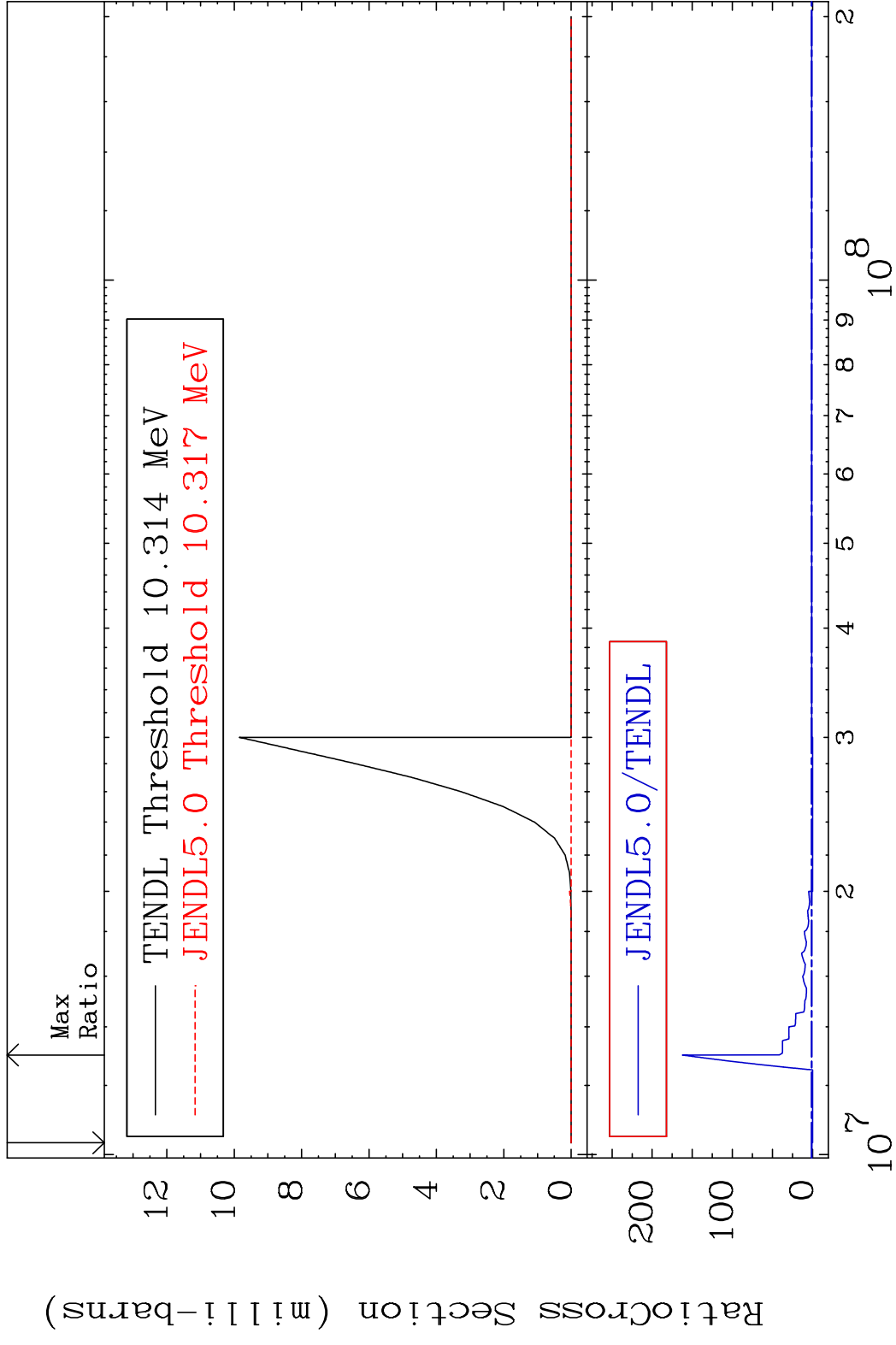


MAT 4040 (n, n') α 40-Zr-95
 Cross Section -100.0 To 9999. %



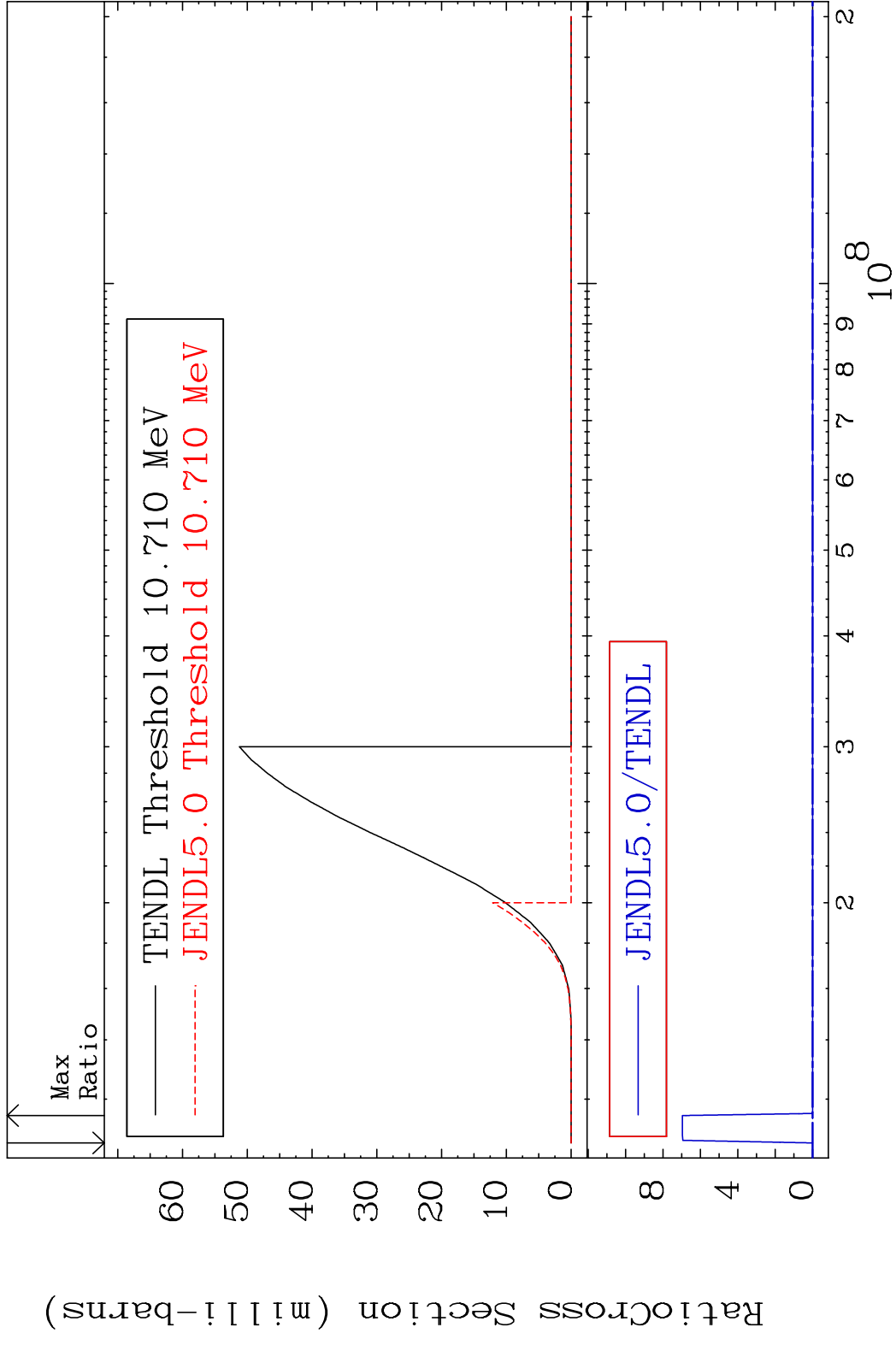
7 5 6 7 8 10 2 3 4 5 6 7 8 10 8 2

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

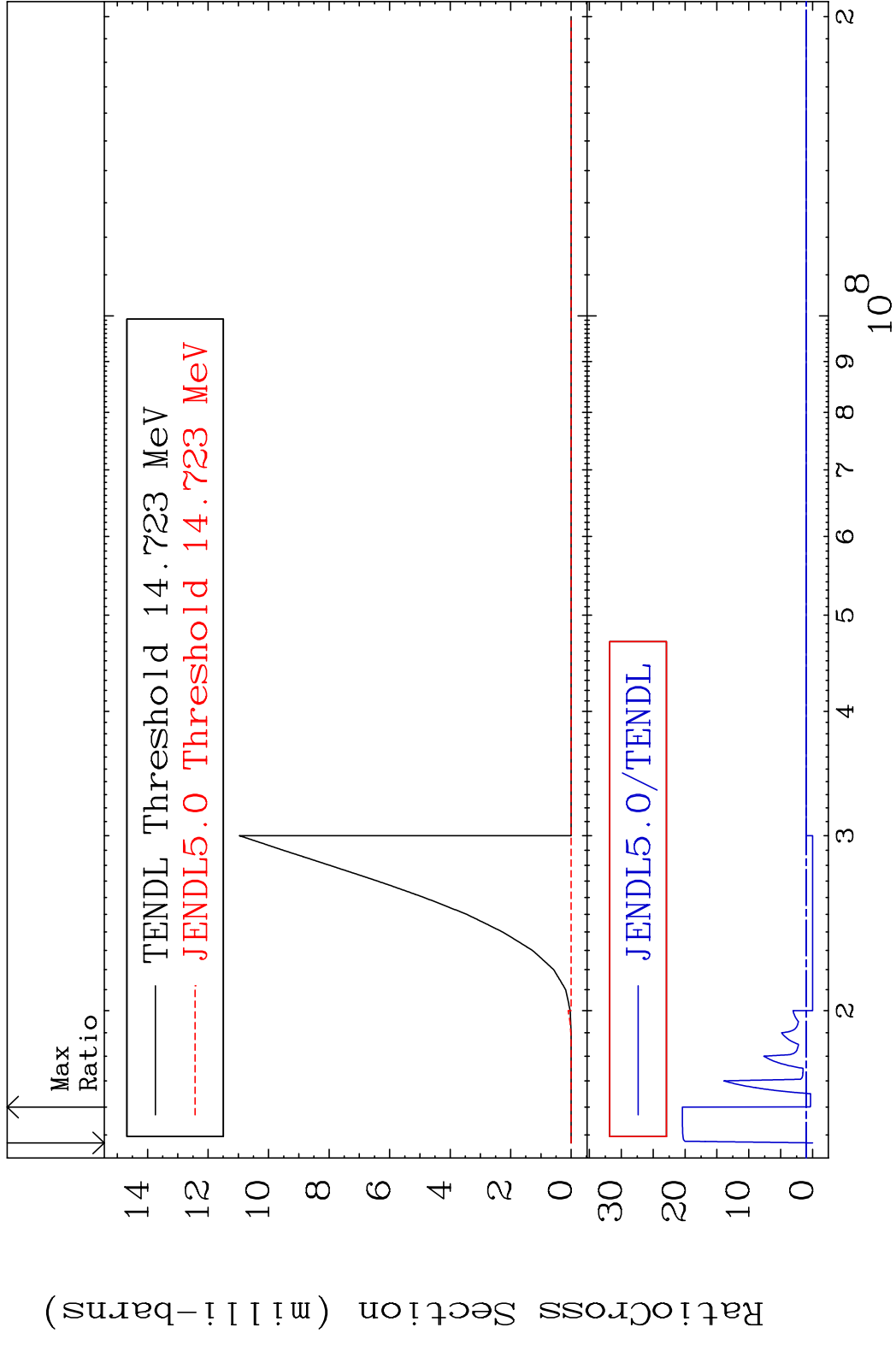


8 10⁷ 2 10⁸ 40-Zr-95

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

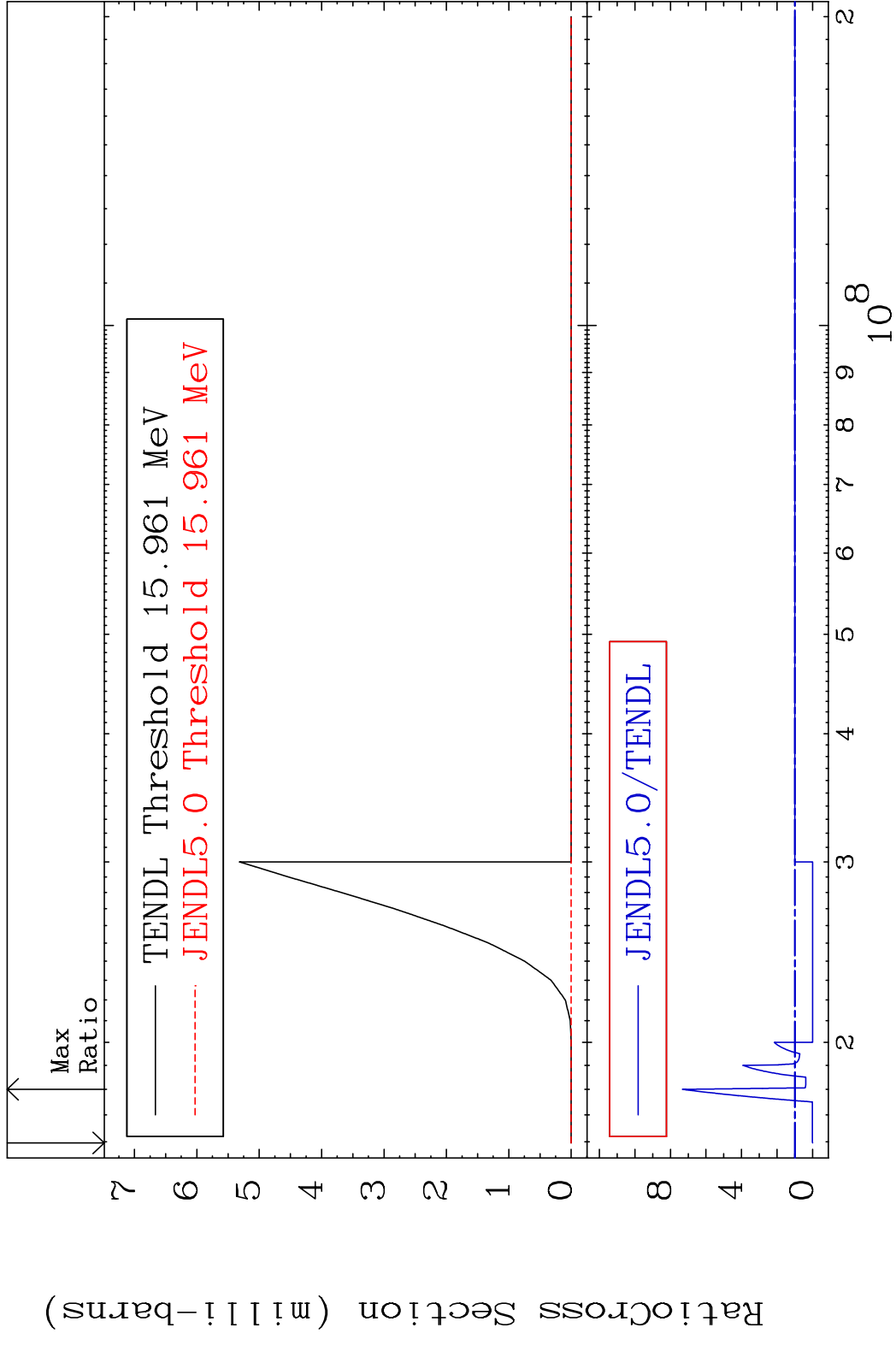


MAT 4040 (n, n') d 40-Zr-95
 Cross Section -100.0 To 1942. %

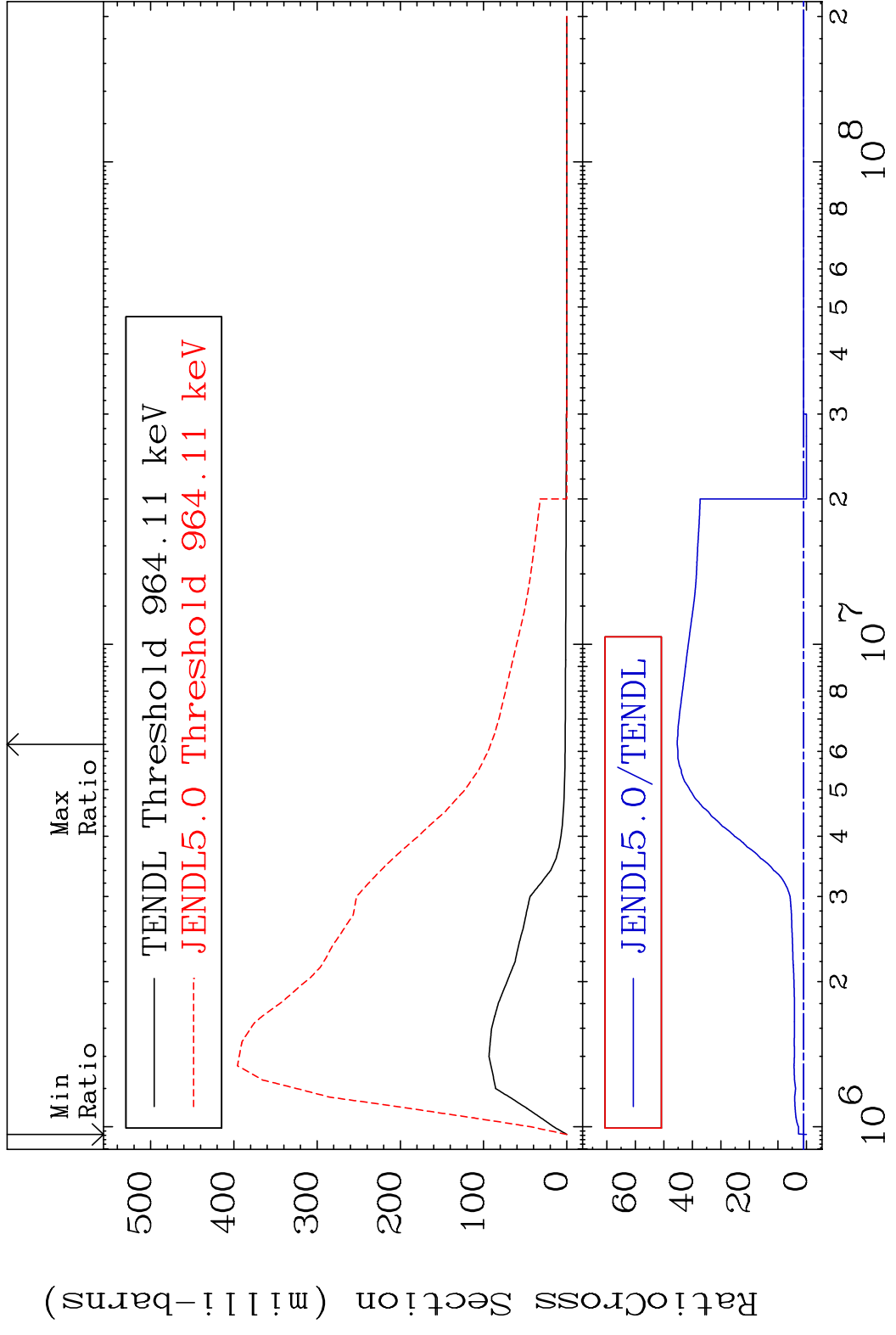


10 Incident Energy (eV) 40-Zr-95

MAT 4040 (n, n') t 40-Zr-95
 Cross Section -100.0 To 633.0 %

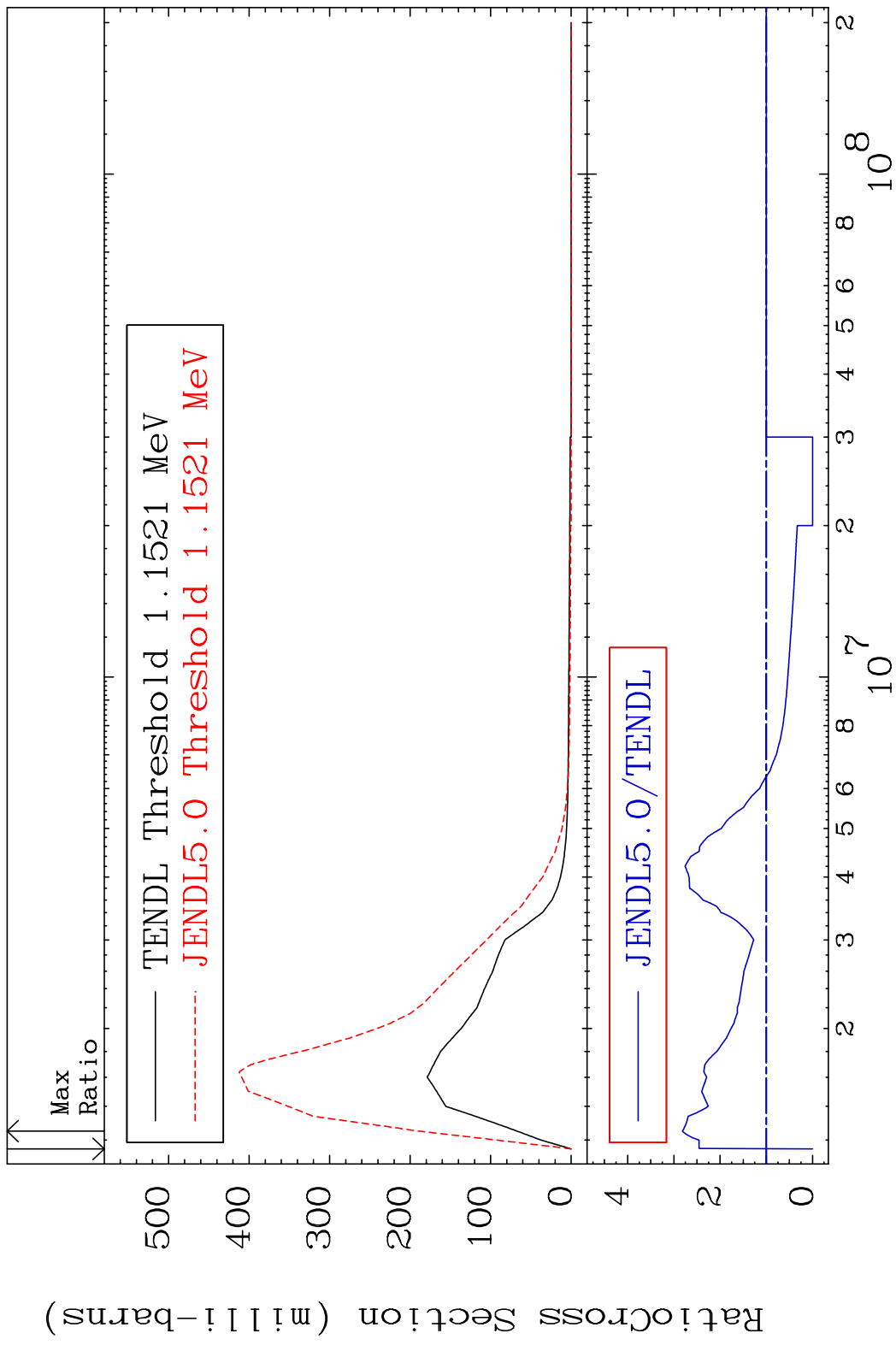


MAT 4040 MT= 51 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 4433. %

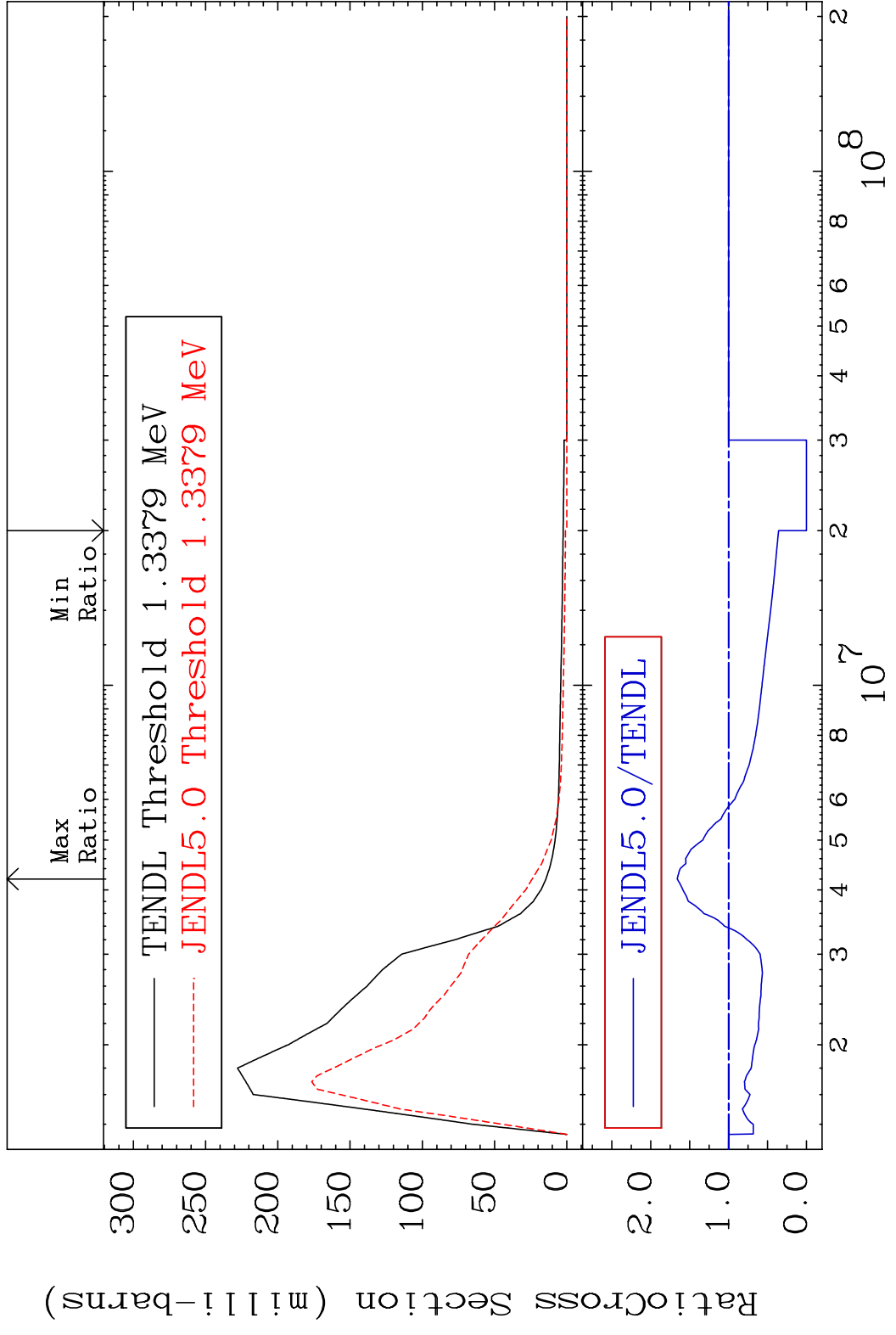


12 2 3 4 5 6 8 10⁶ 10⁷ 10⁸ 2

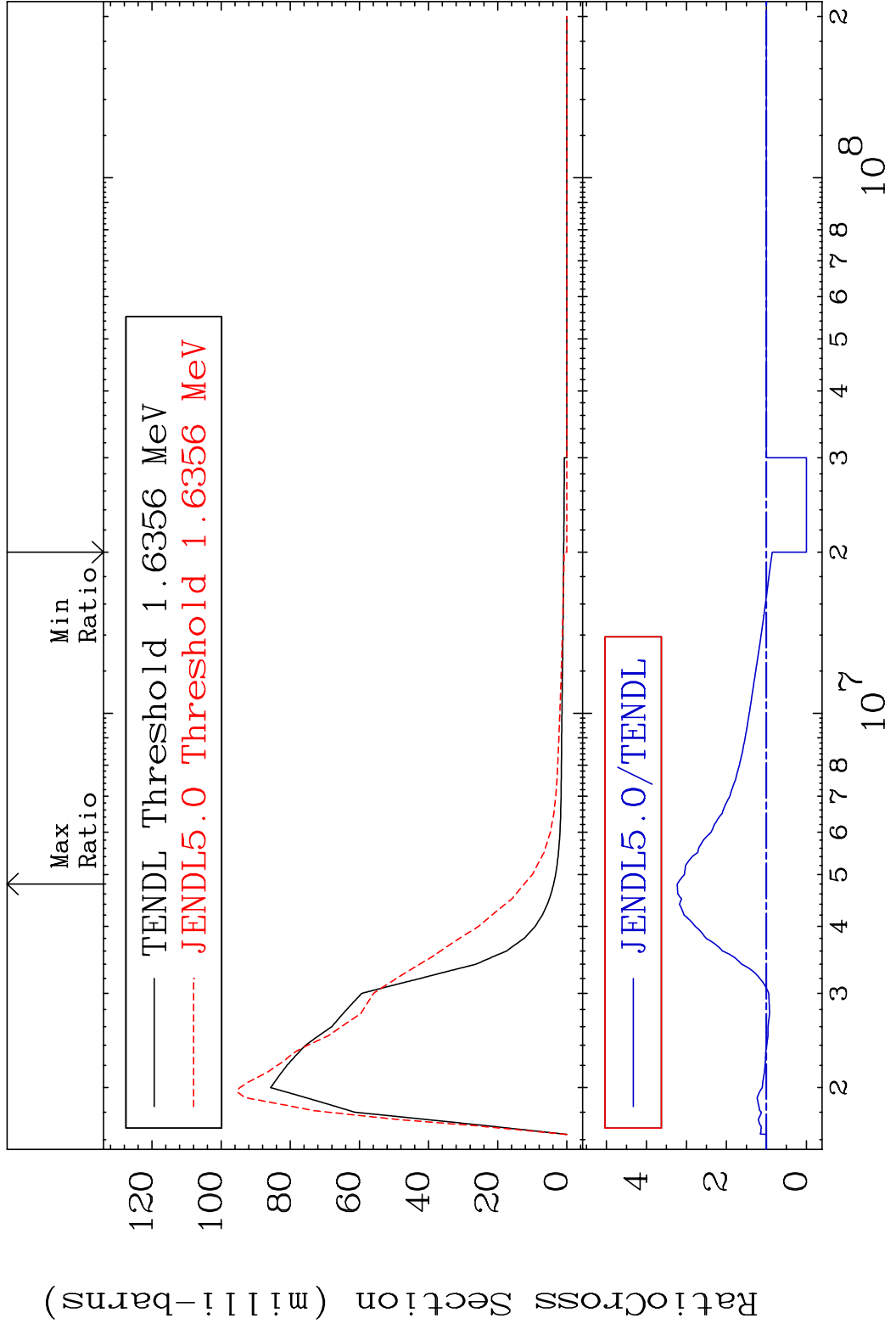
MAT 4040 MT= 52 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 181.6 %



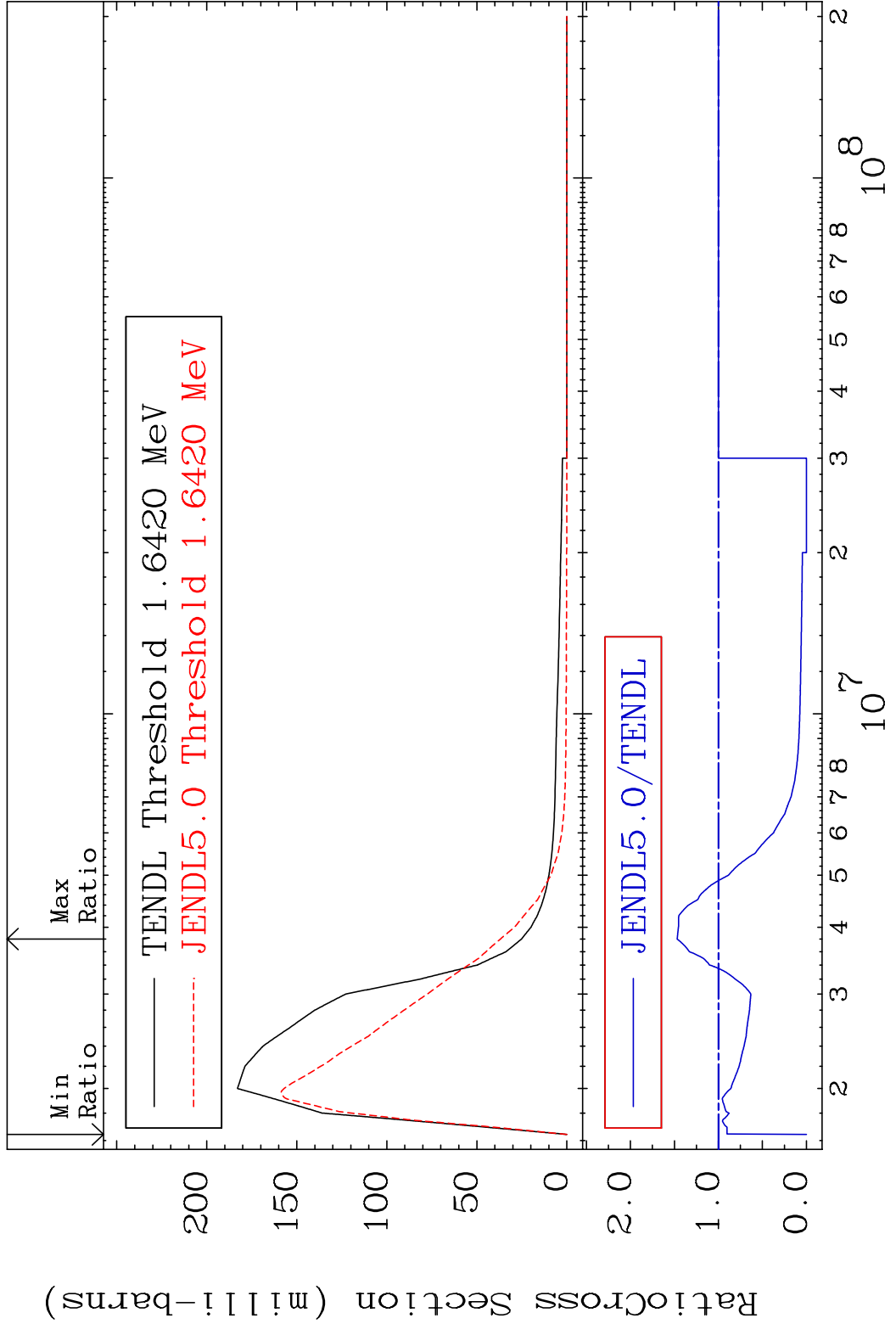
MAT 4040 MT= 53 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 65.93 %



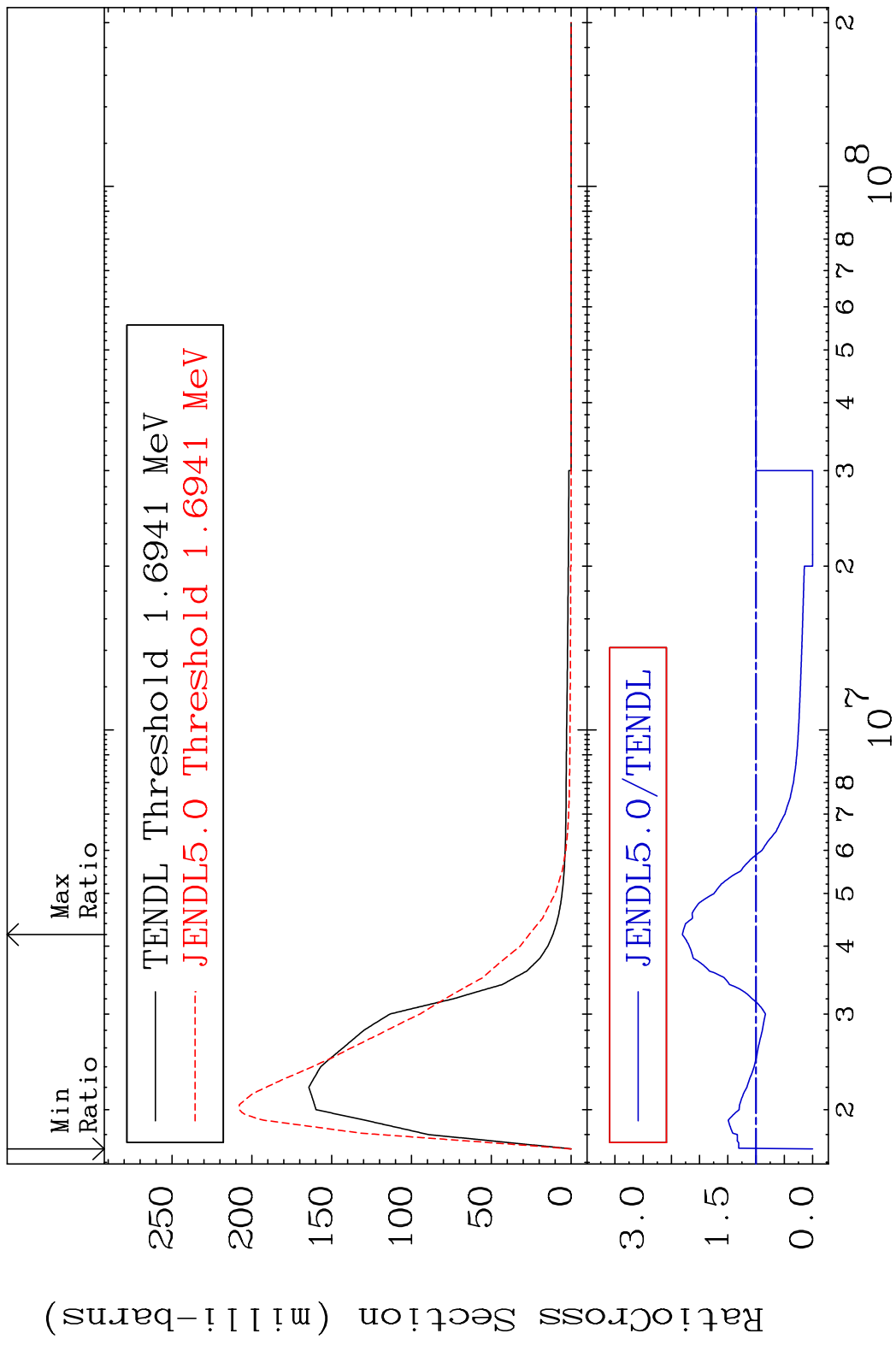
MAT 4040 MT= 54 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 223.2 %



MAT 4040 MT= 55 (n,n') Level 40-Zr-95
 Cross Section -100.0 To 46.85 %

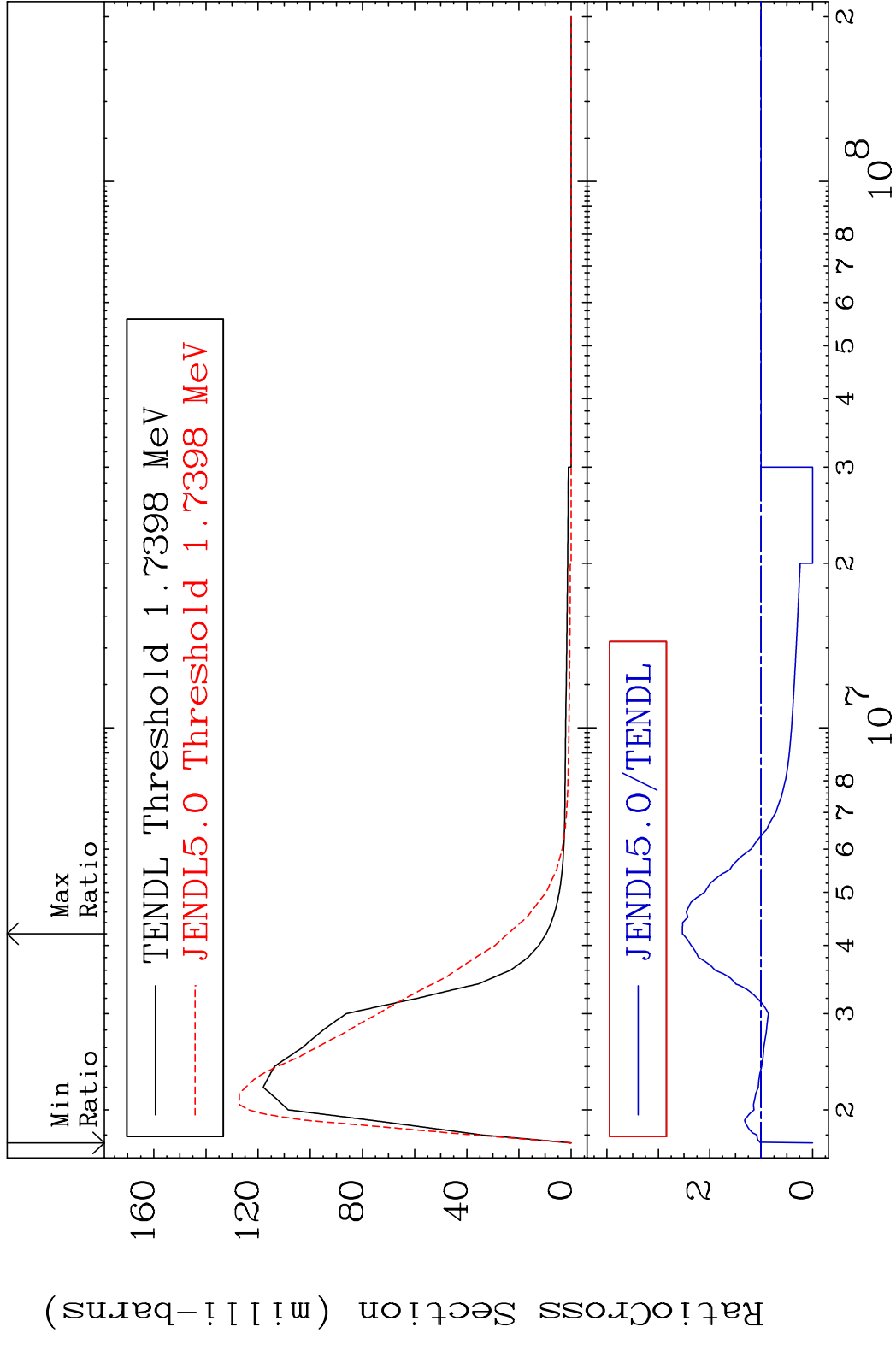


MAT 4040 MT= 56 (n,n') Level 40-Zr-95
 Cross Section -100.0 To 130.5 %

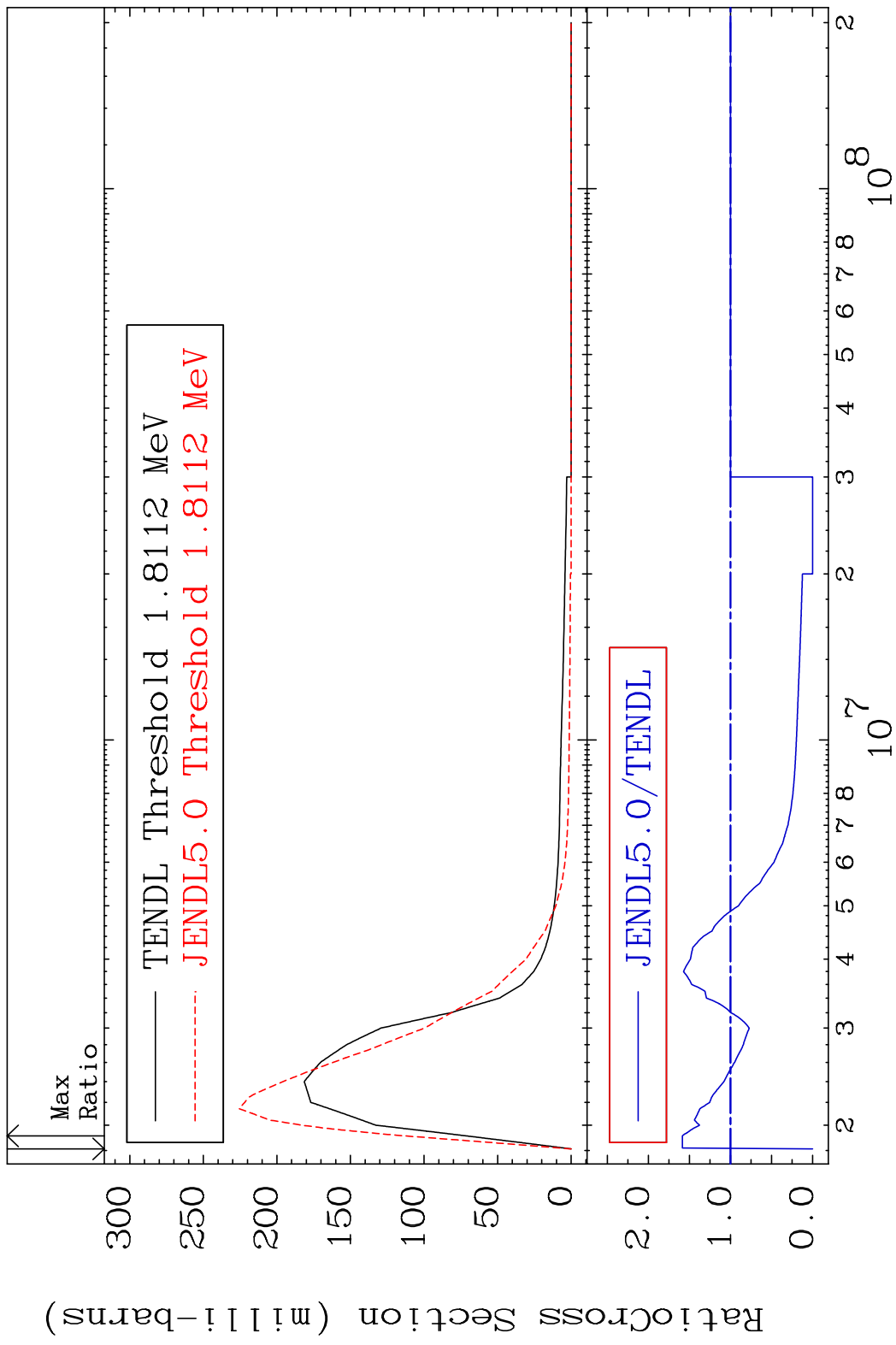


17 17 Incident Energy (eV) 40-Zr-95

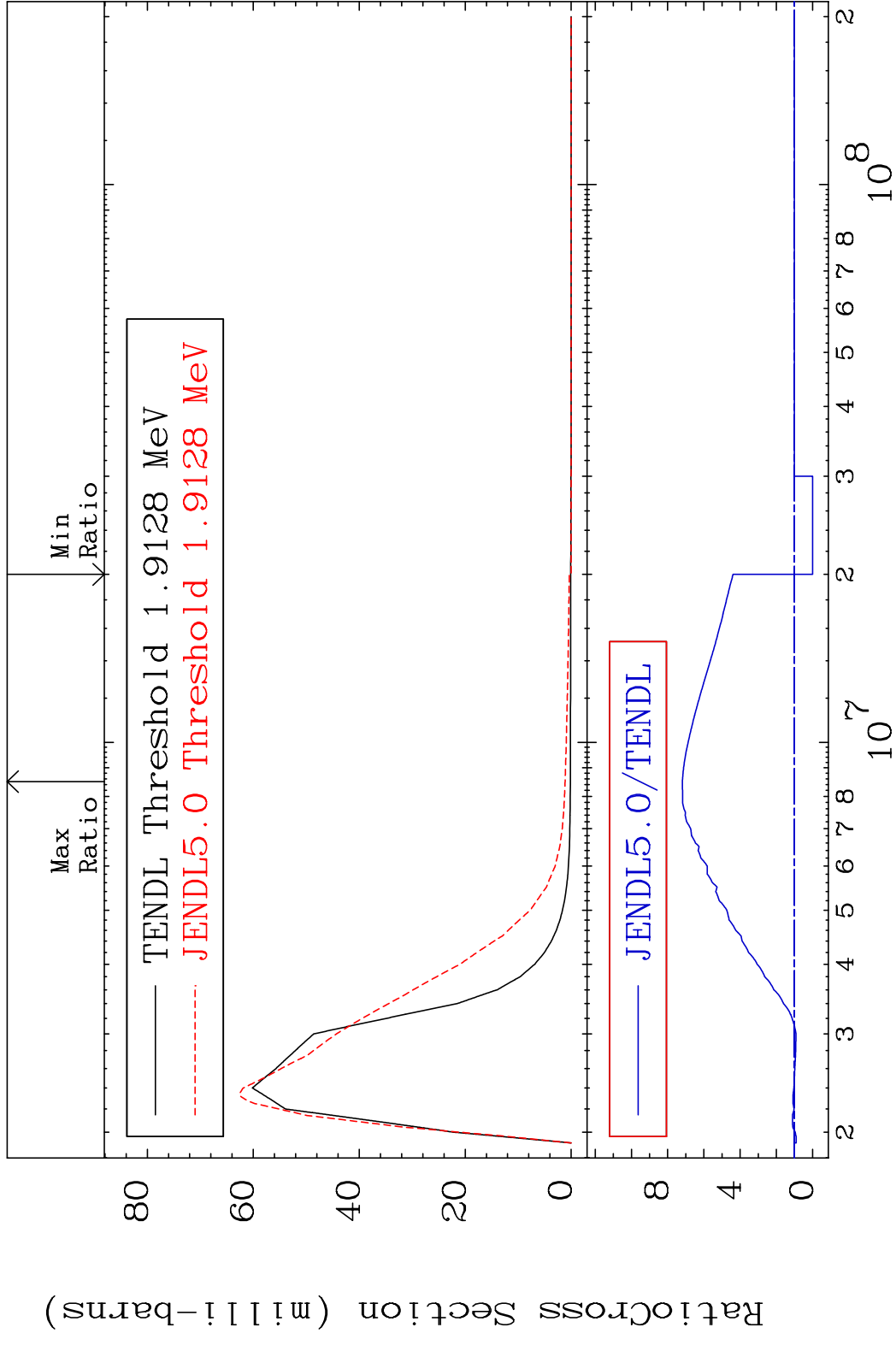
MAT 4040 MT= 57 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 153.3 %



MAT 4040 MT= 58 (n,n') Level 40-Zr-95
 Cross Section -100.0 To 58.62 %



MAT 4040 MT= 59 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 618.9 %

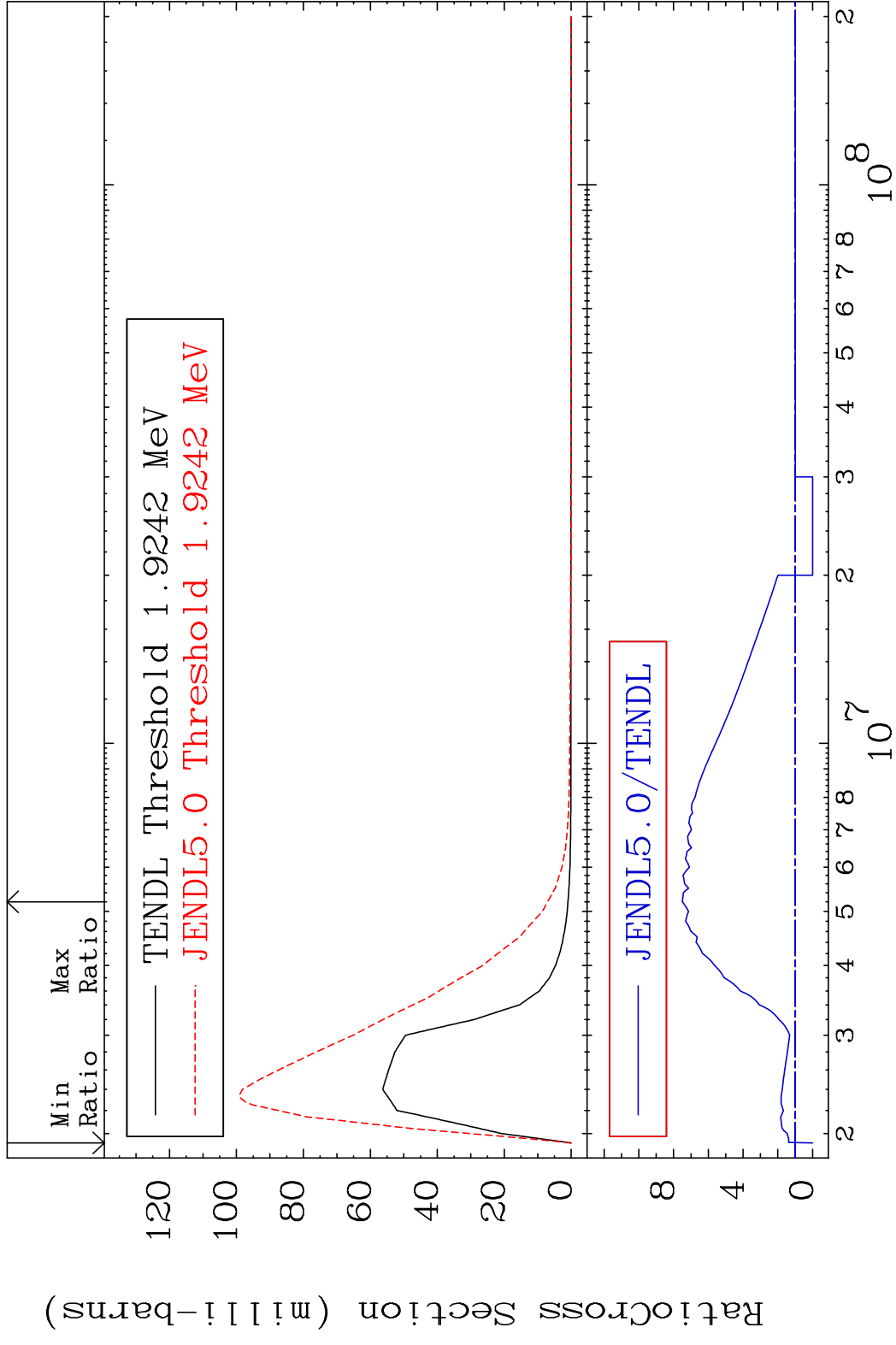


20

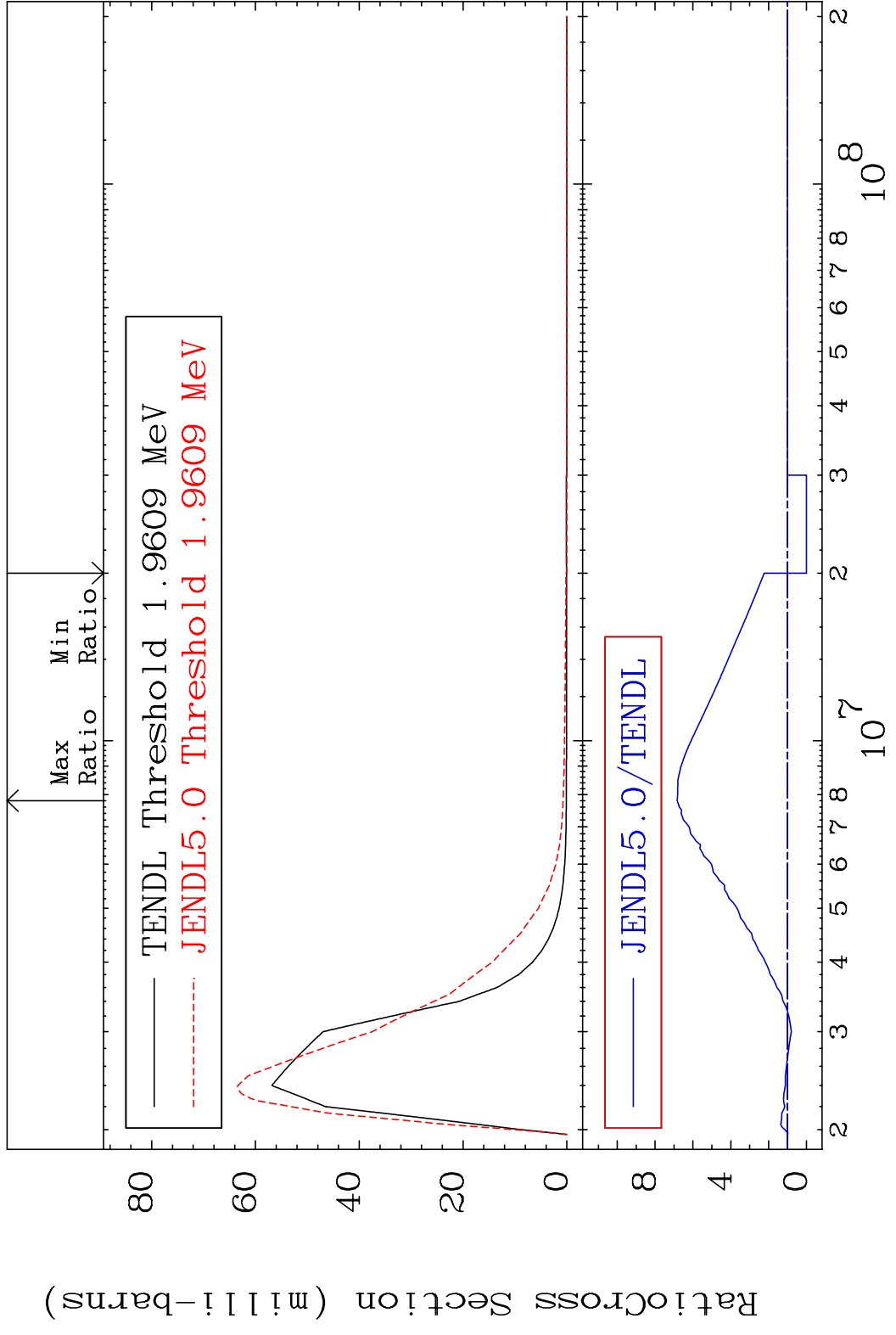
Incident Energy (eV)

40-Zr-95

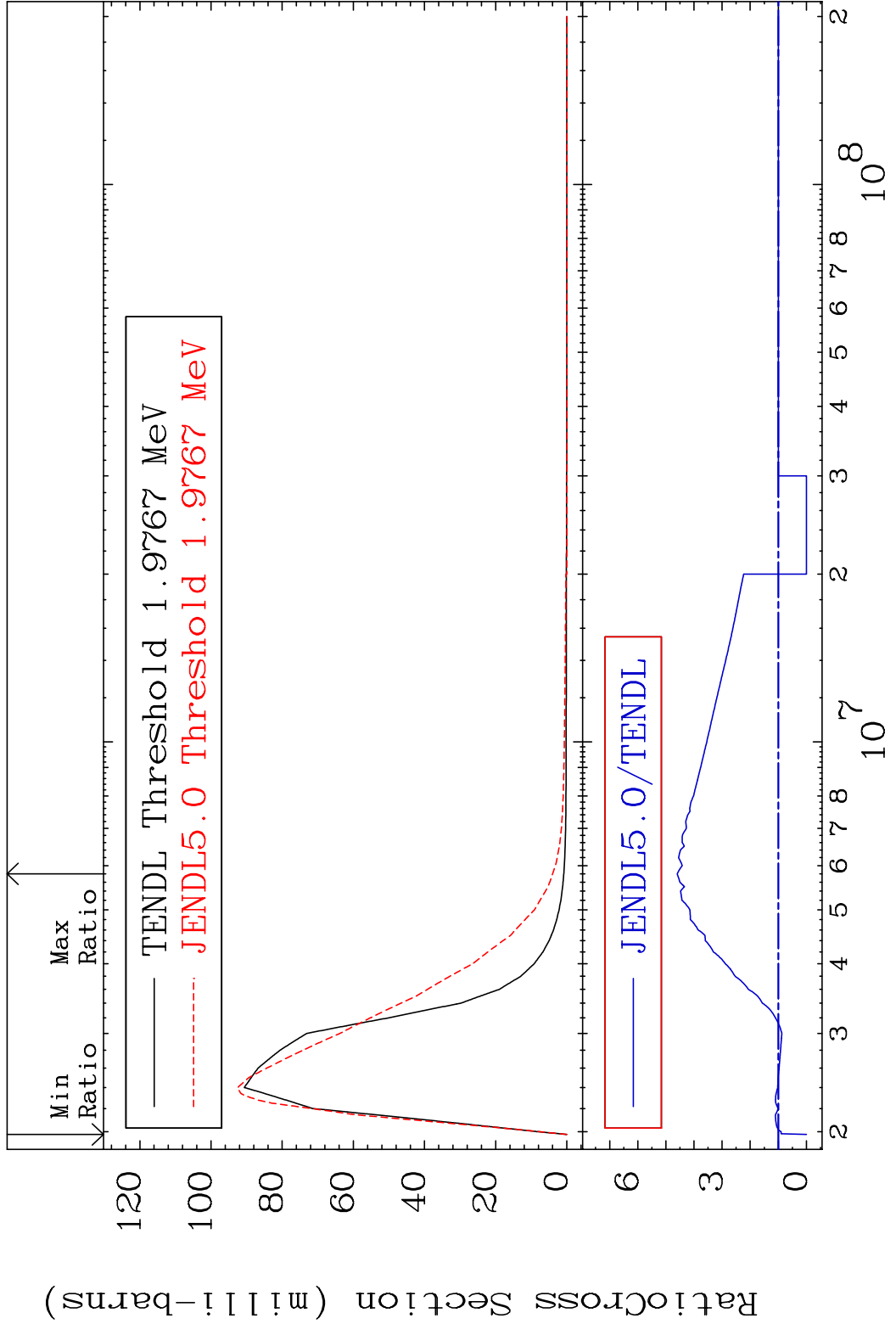
MAT 4040 MT= 60 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 649.5 %



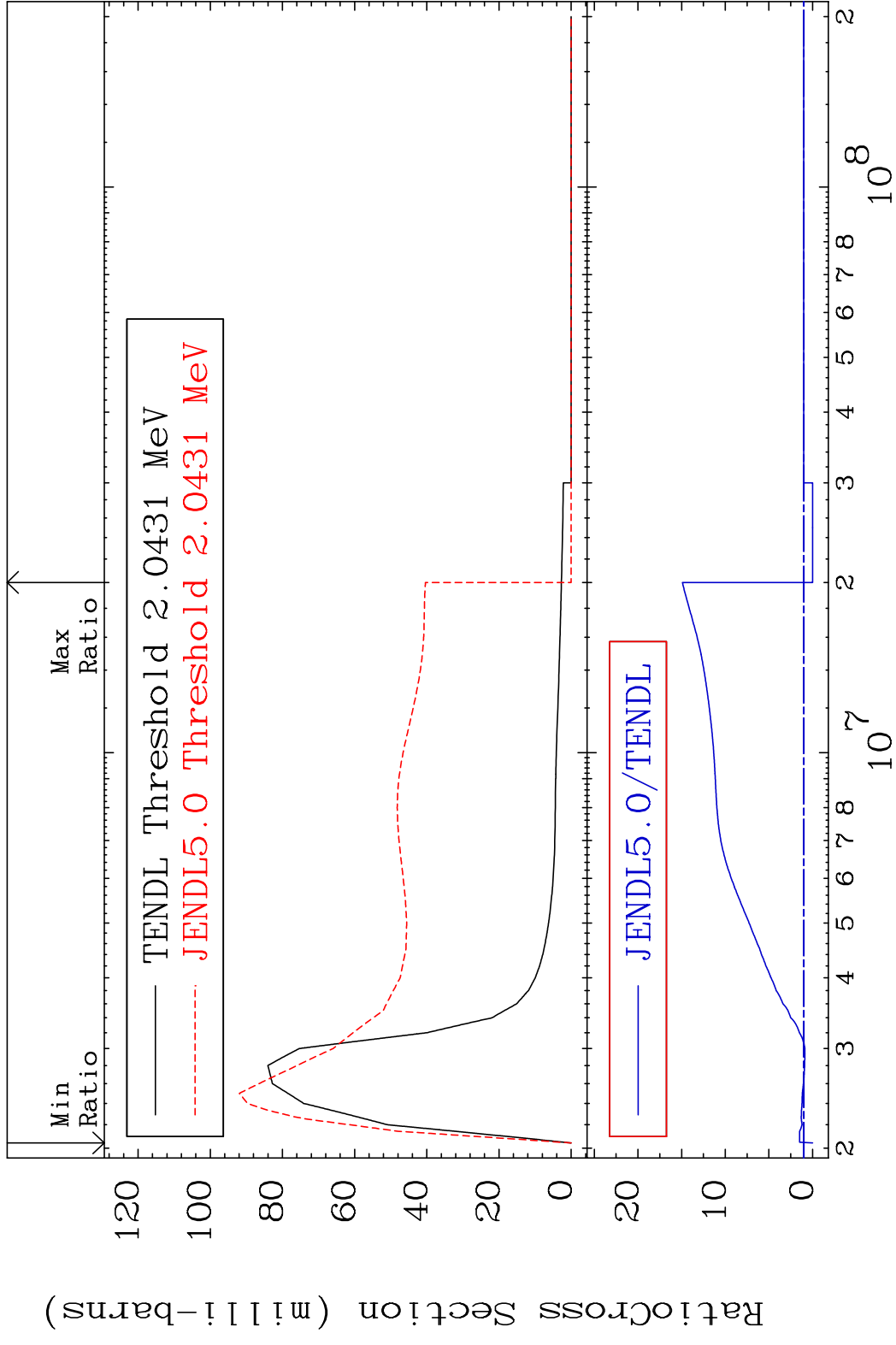
MAT 4040 MT= 61 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 583.3 %



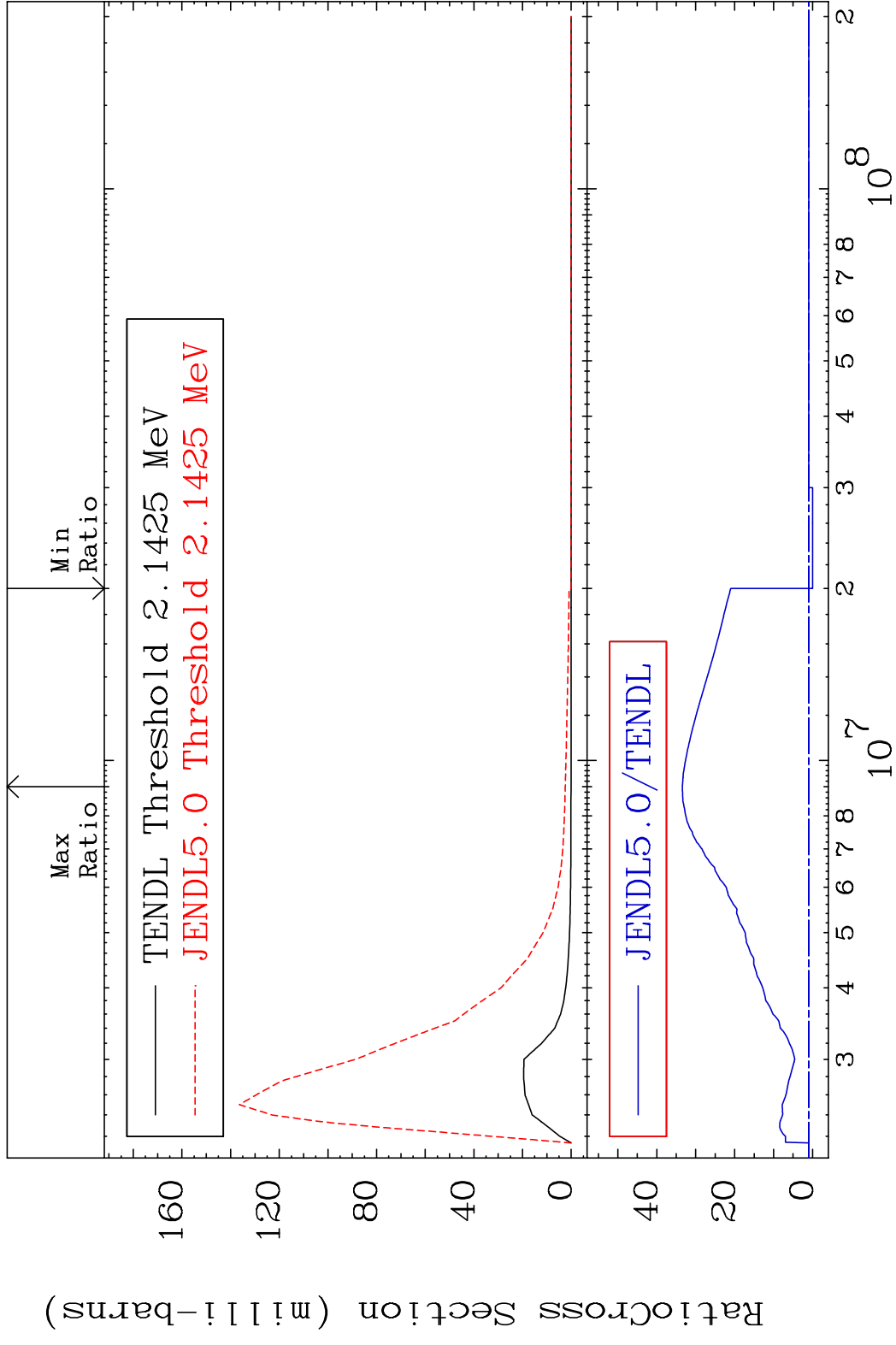
MAT 4040 MT= 62 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 359.8 %



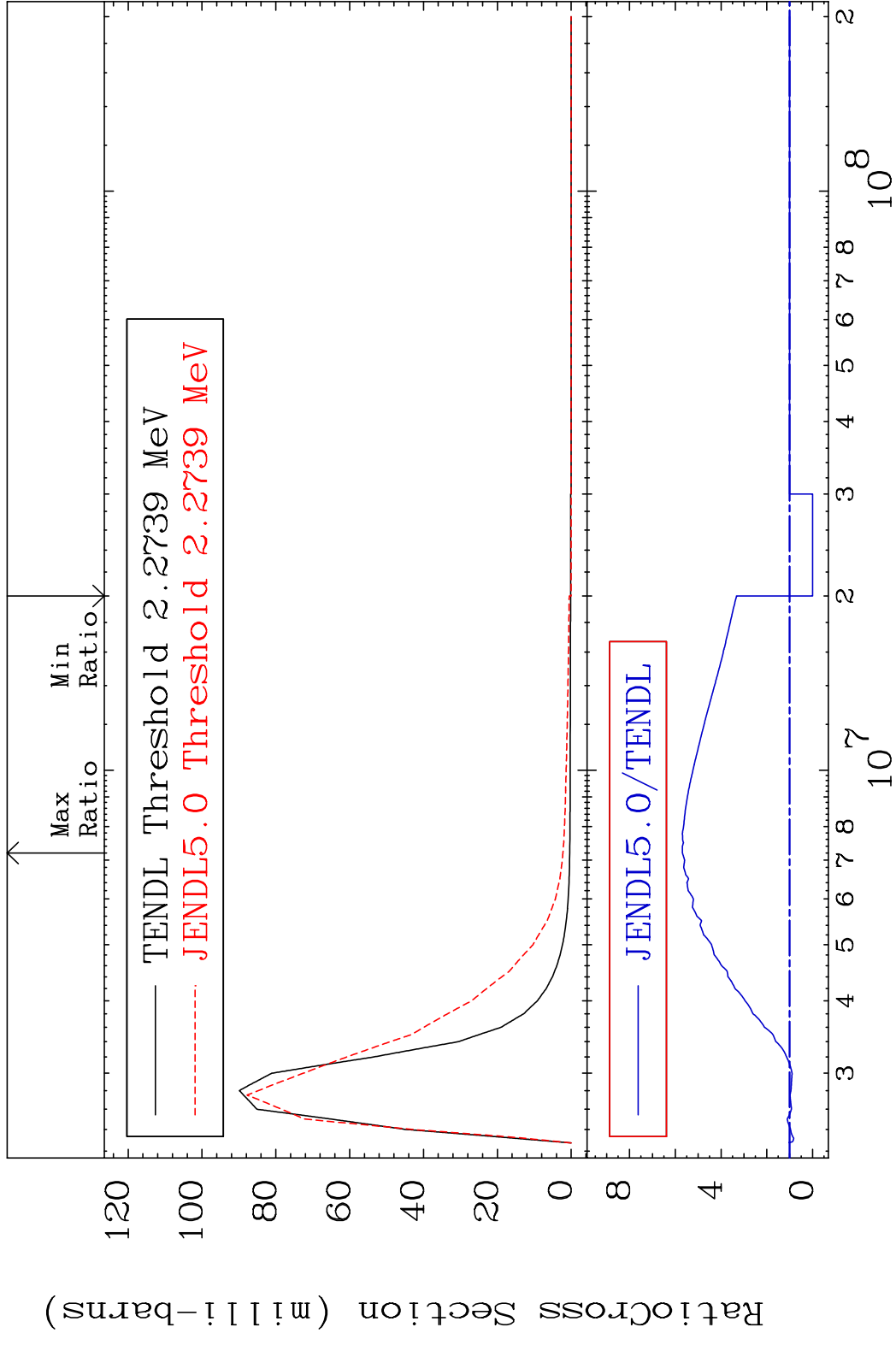
MAT 4040 MT= 63 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 1391. %



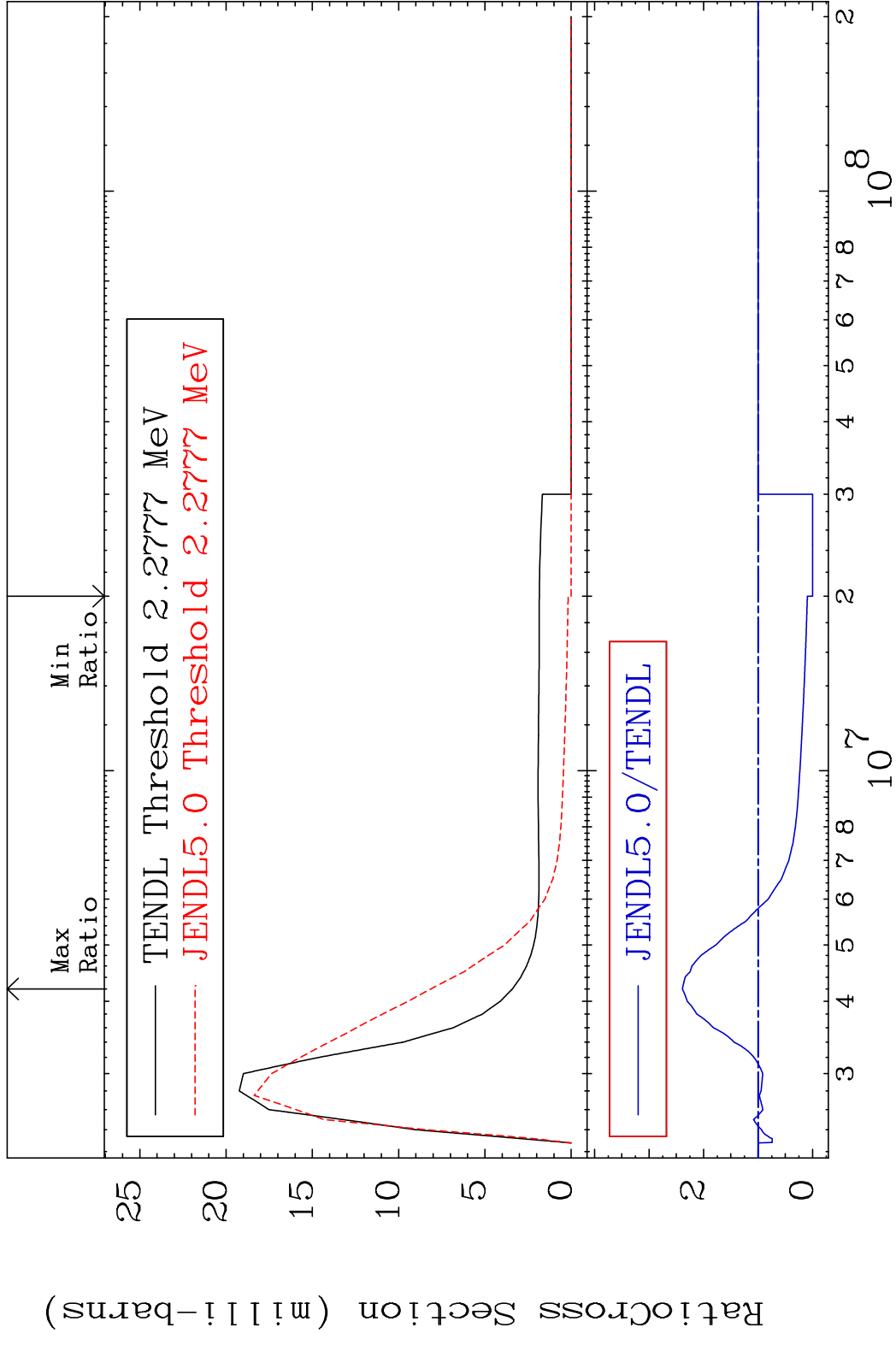
MAT 4040 MT= 64 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 3243. %



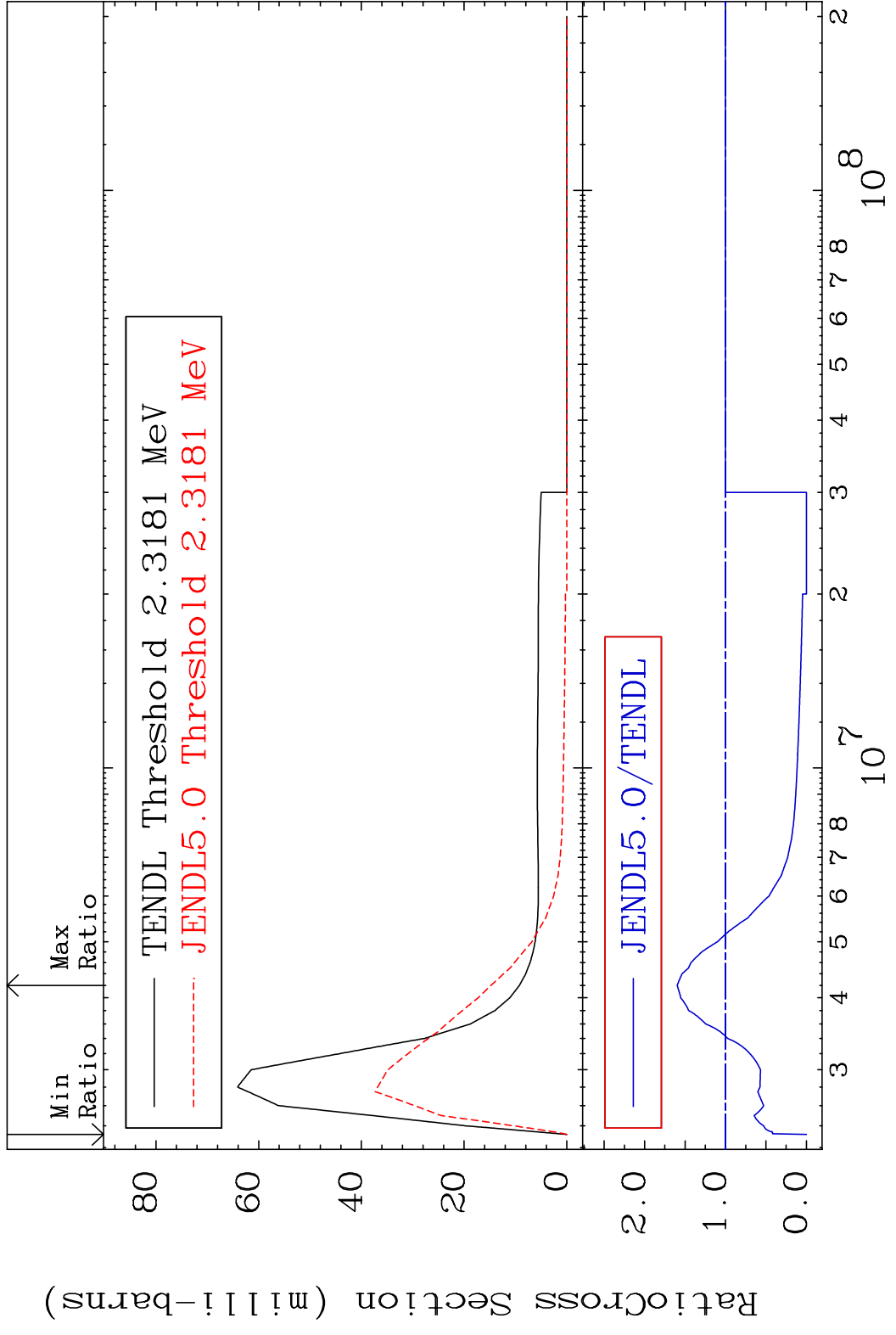
MAT 4040 MT= 65 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 469.1 %



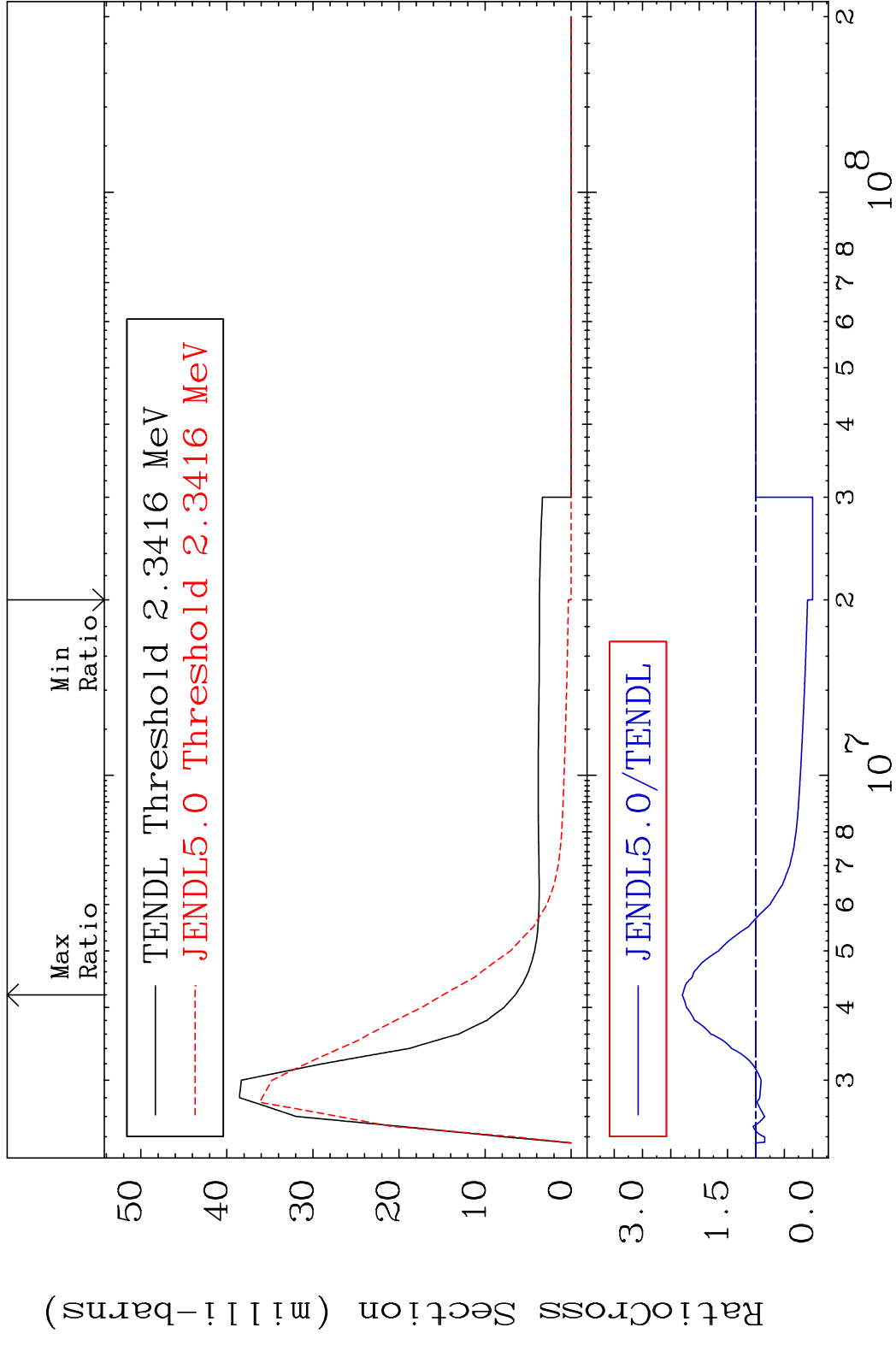
MAT 4040 MT= 66 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 138.9 %



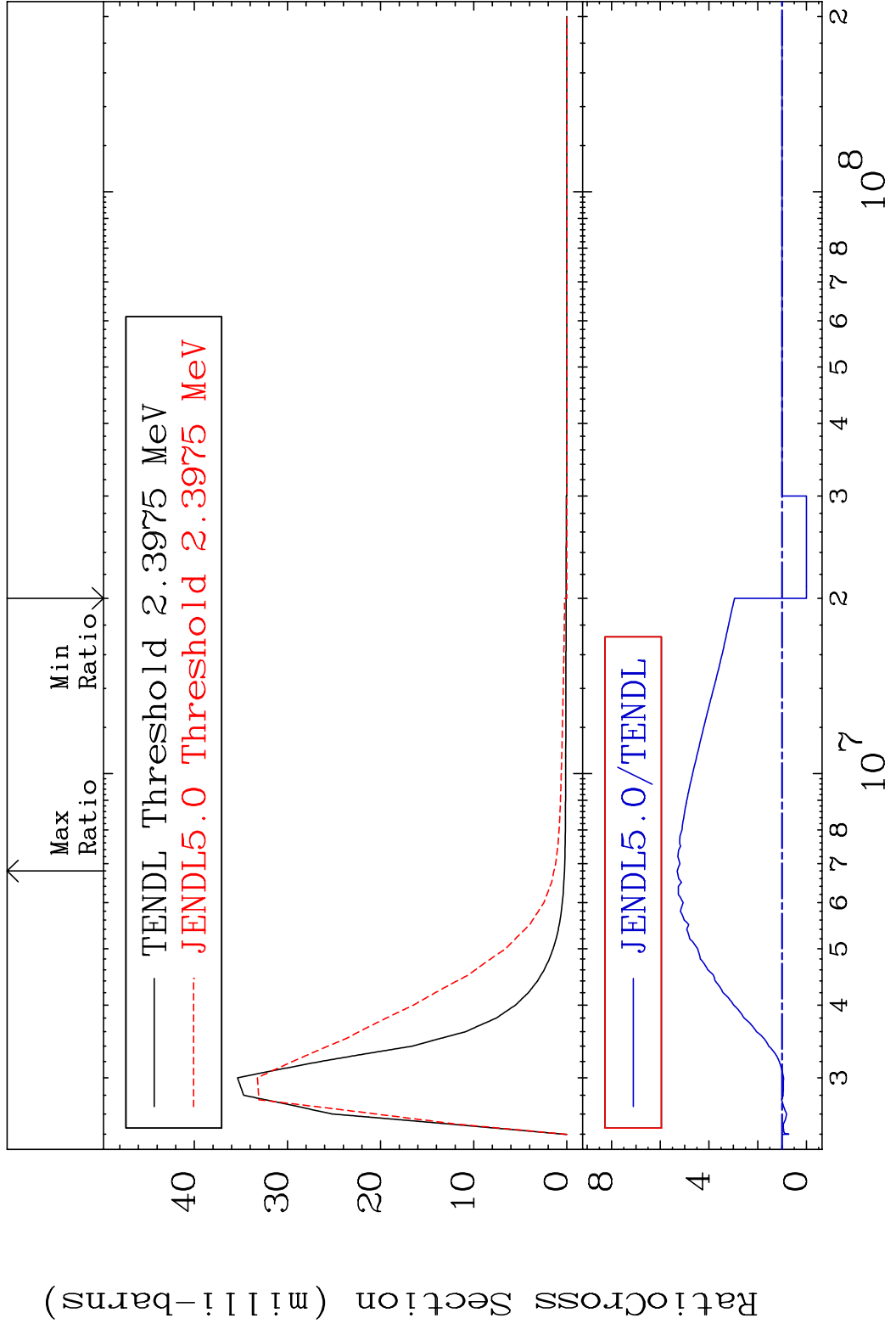
MAT 4040 MT= 67 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 59.78 %



MAT 4040 MT= 68 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 129.7 %



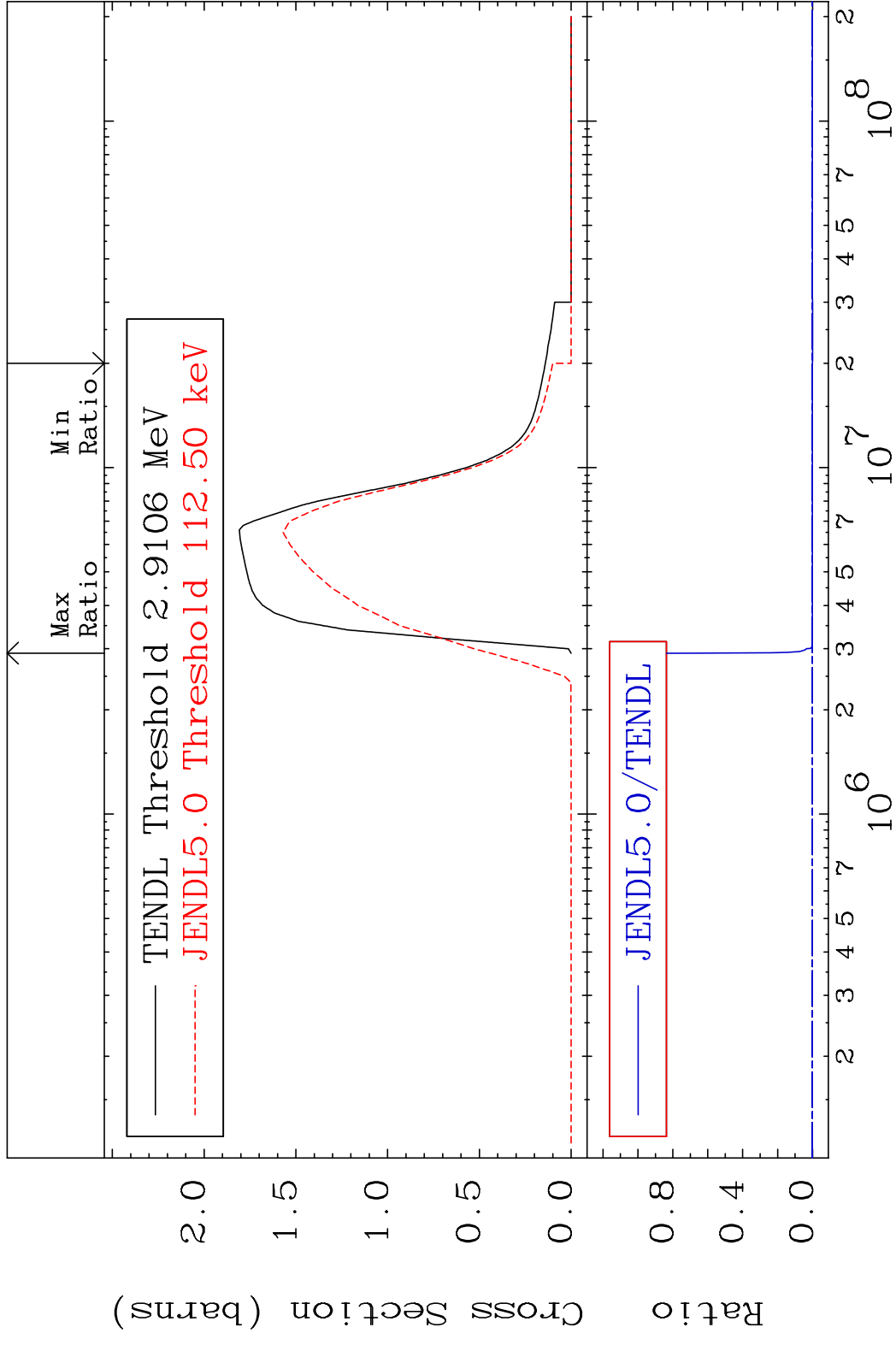
MAT 4040 MT= 69 (n, n') Level 40-Zr-95
 Cross Section -100.0 To 430.6 %



30

Incident Energy (eV)

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

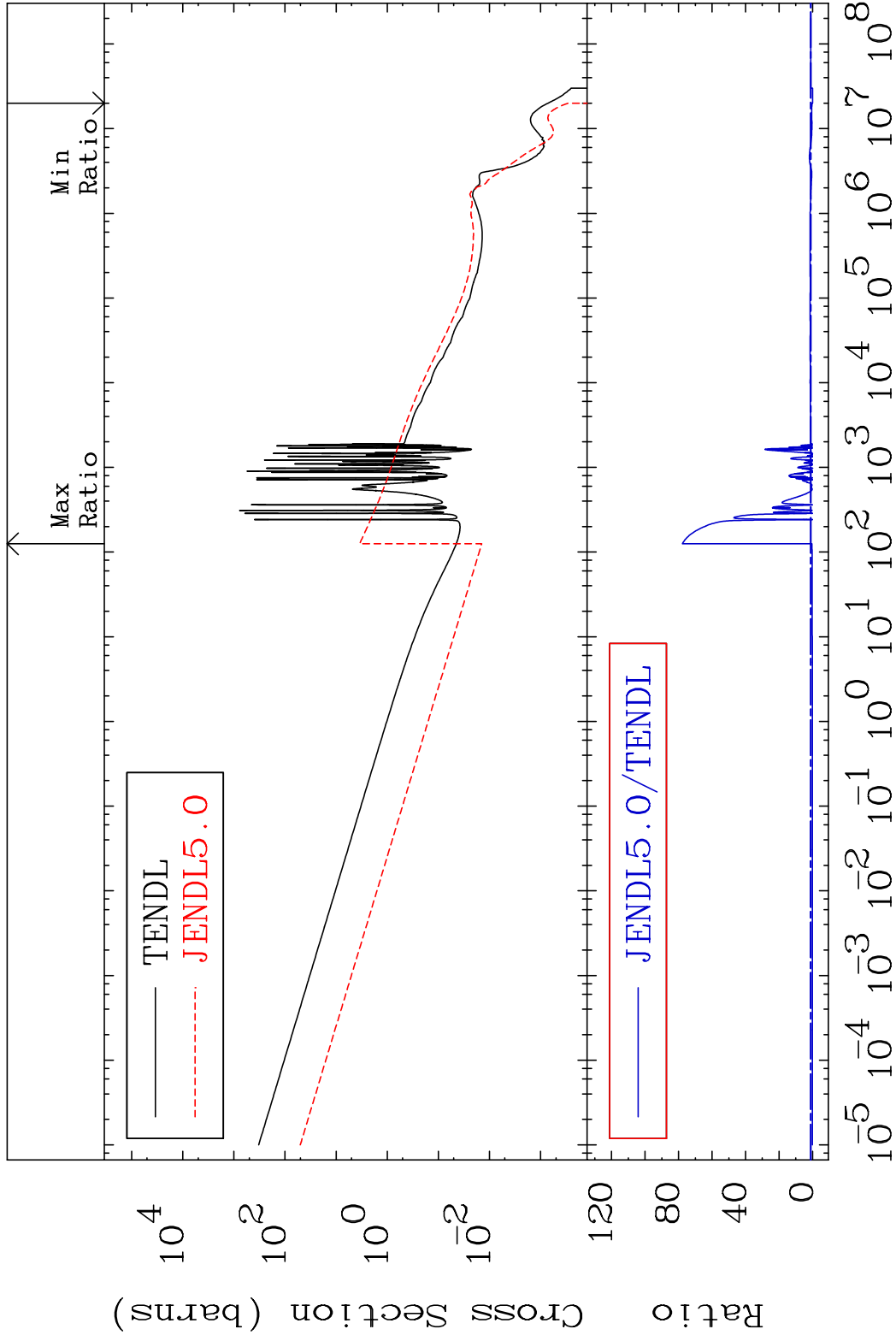


MAT 4040

(n, γ)

40-Zr-95

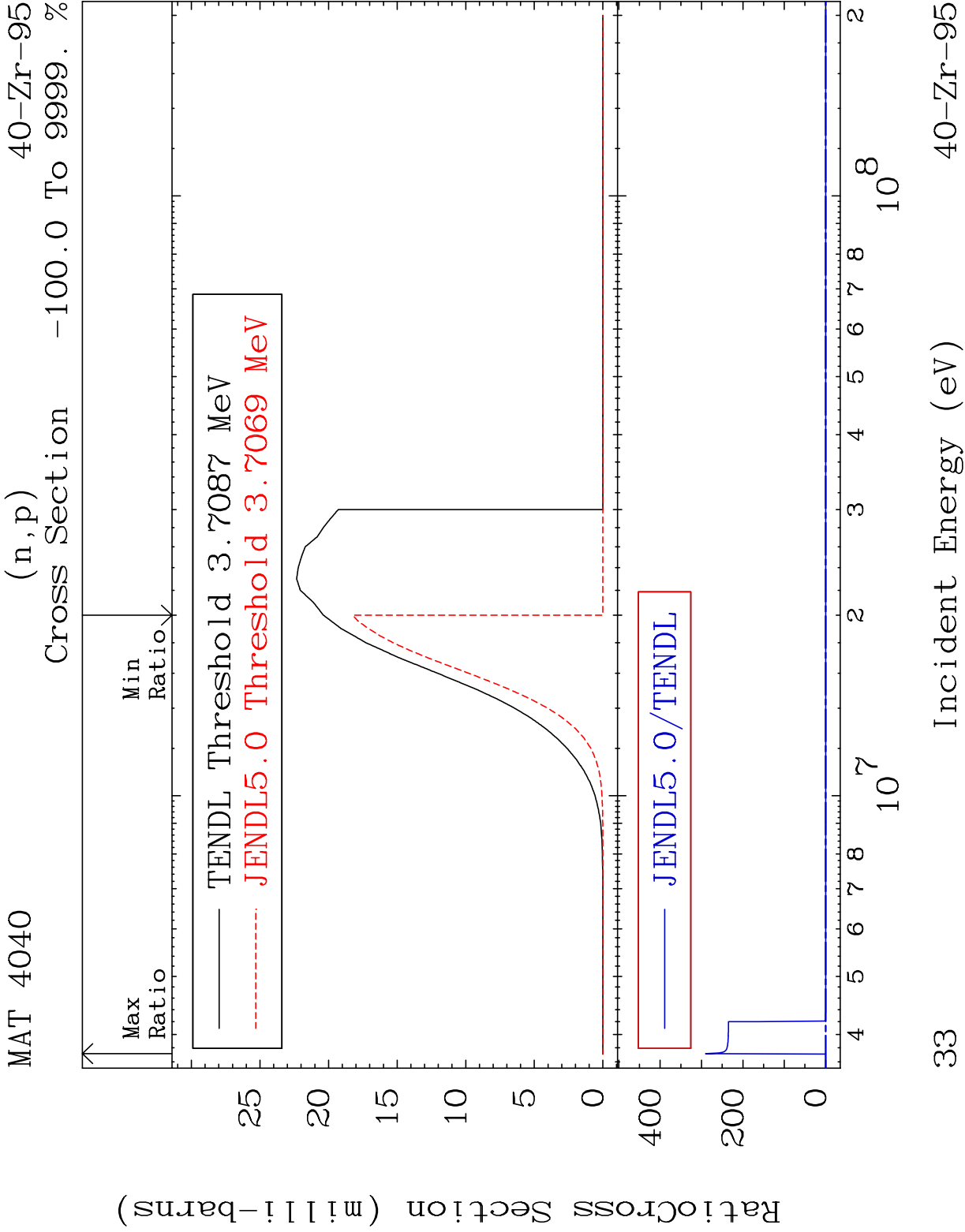
Cross Section -100.0 To 7673. %



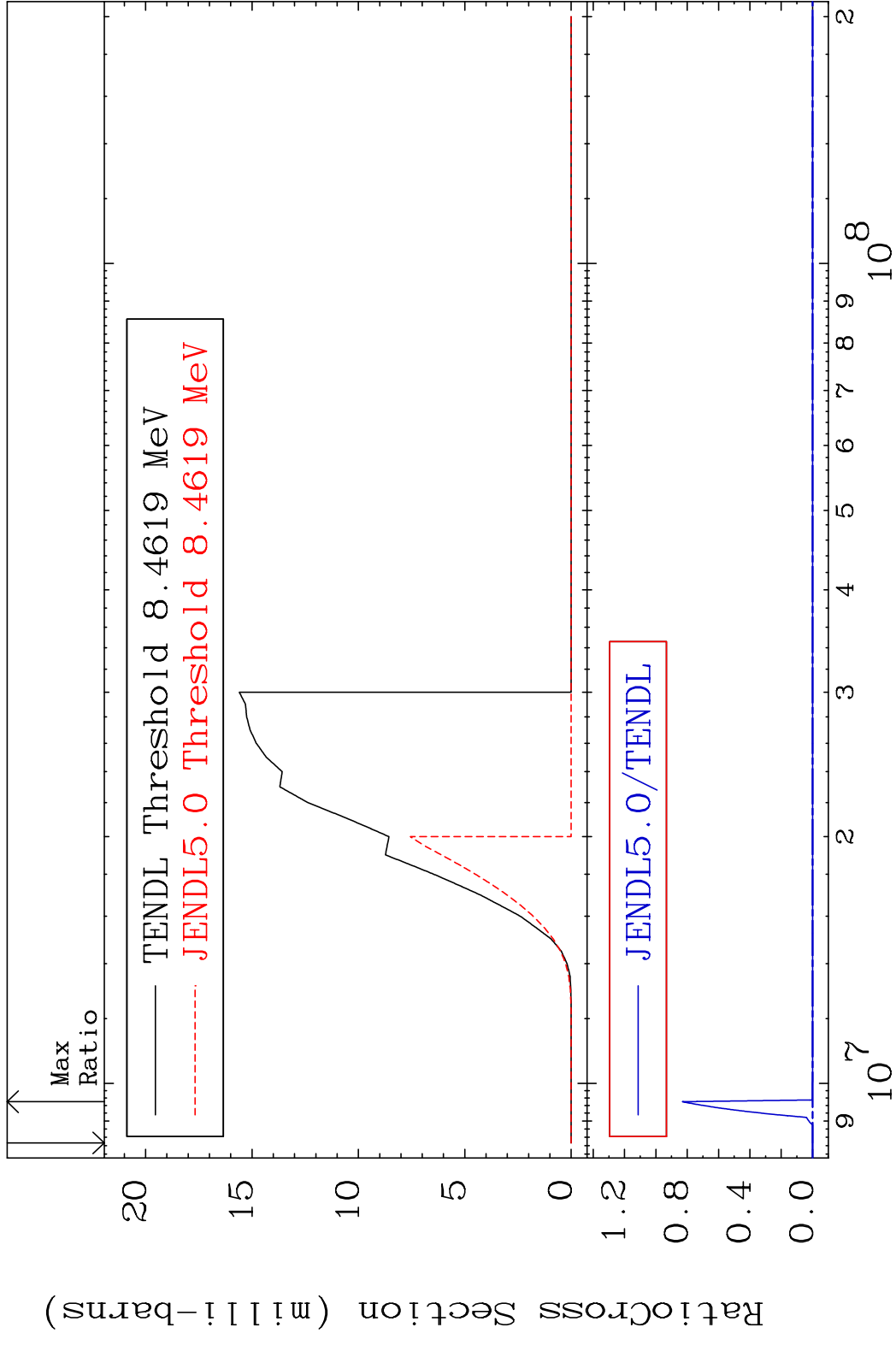
32

Incident Energy (eV)

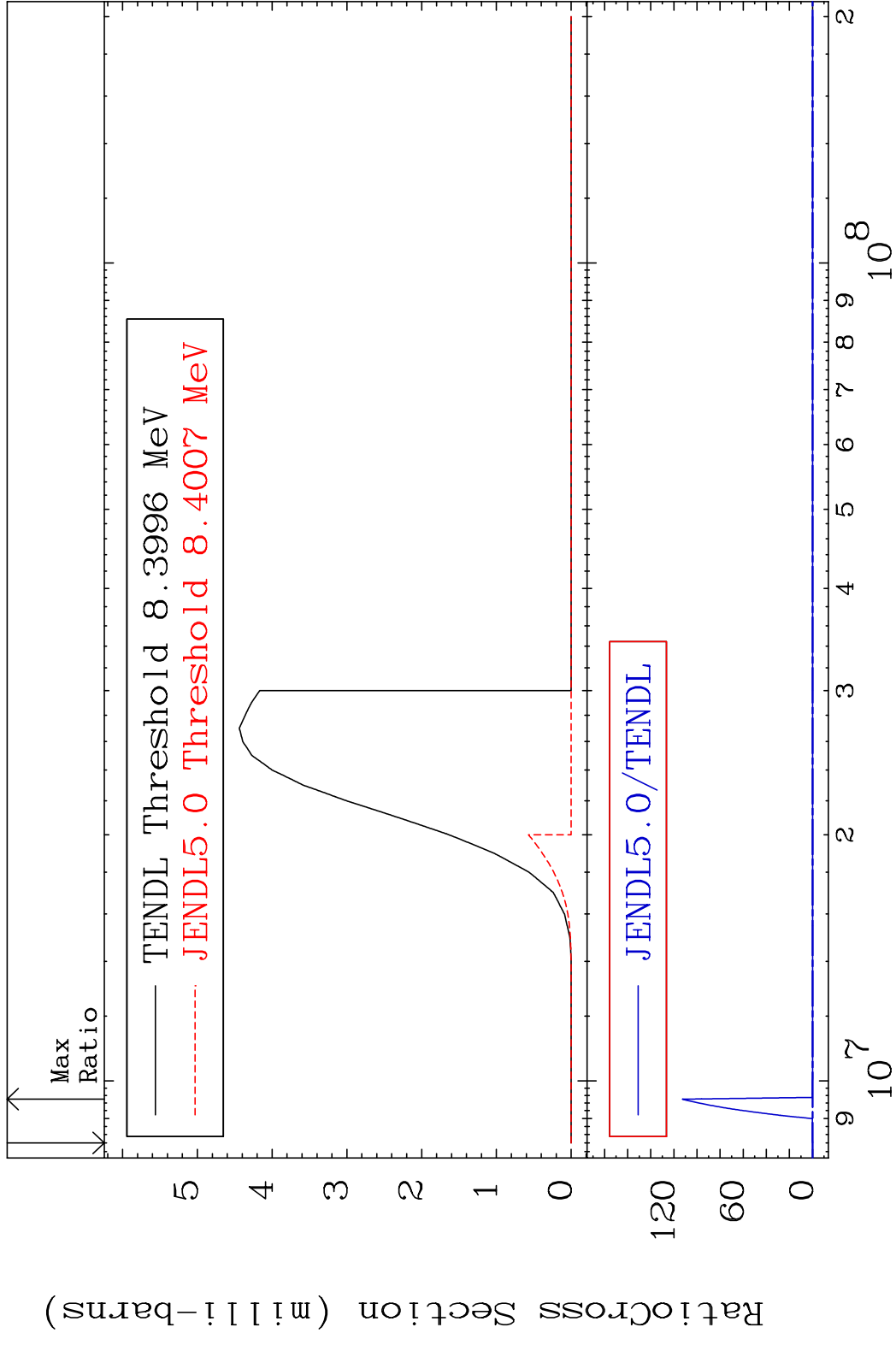
40-Zr-95



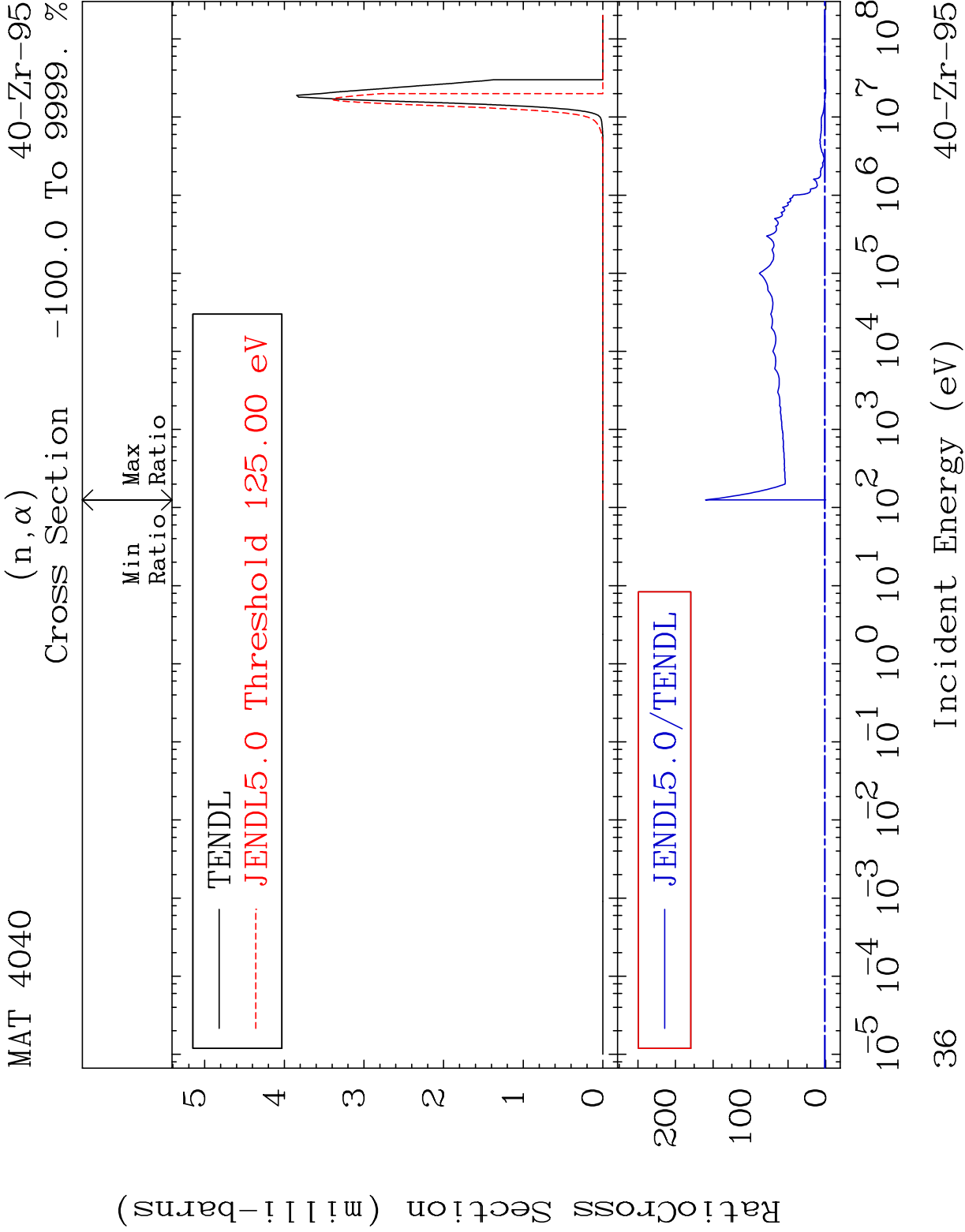
MAT 4040 (n,d) 40-Zr-95
 Cross Section -100.0 To 9999. %



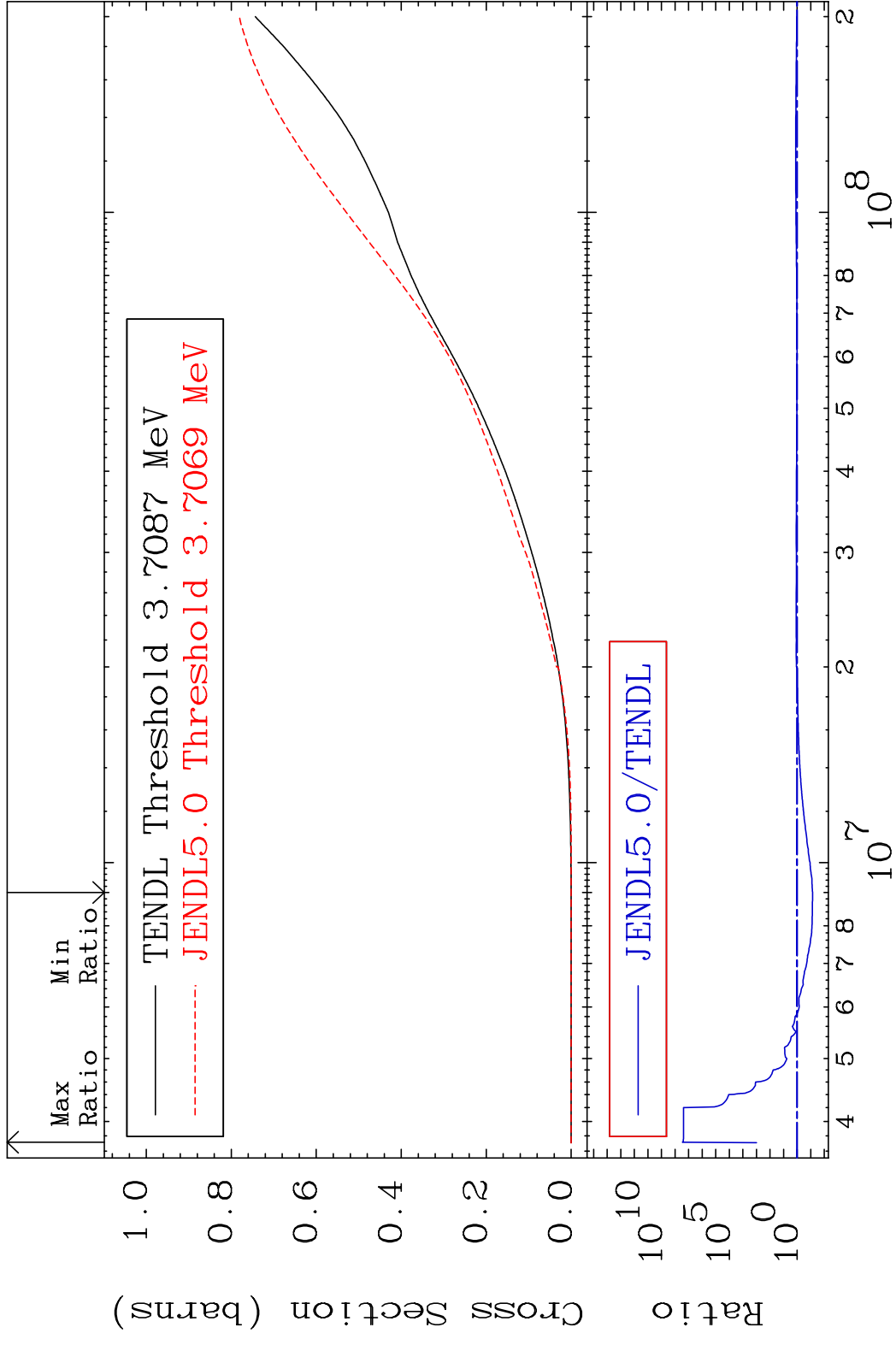
MAT 4040 (n, t) 40-Zr-95
 Cross Section -100.0 To 9999. %



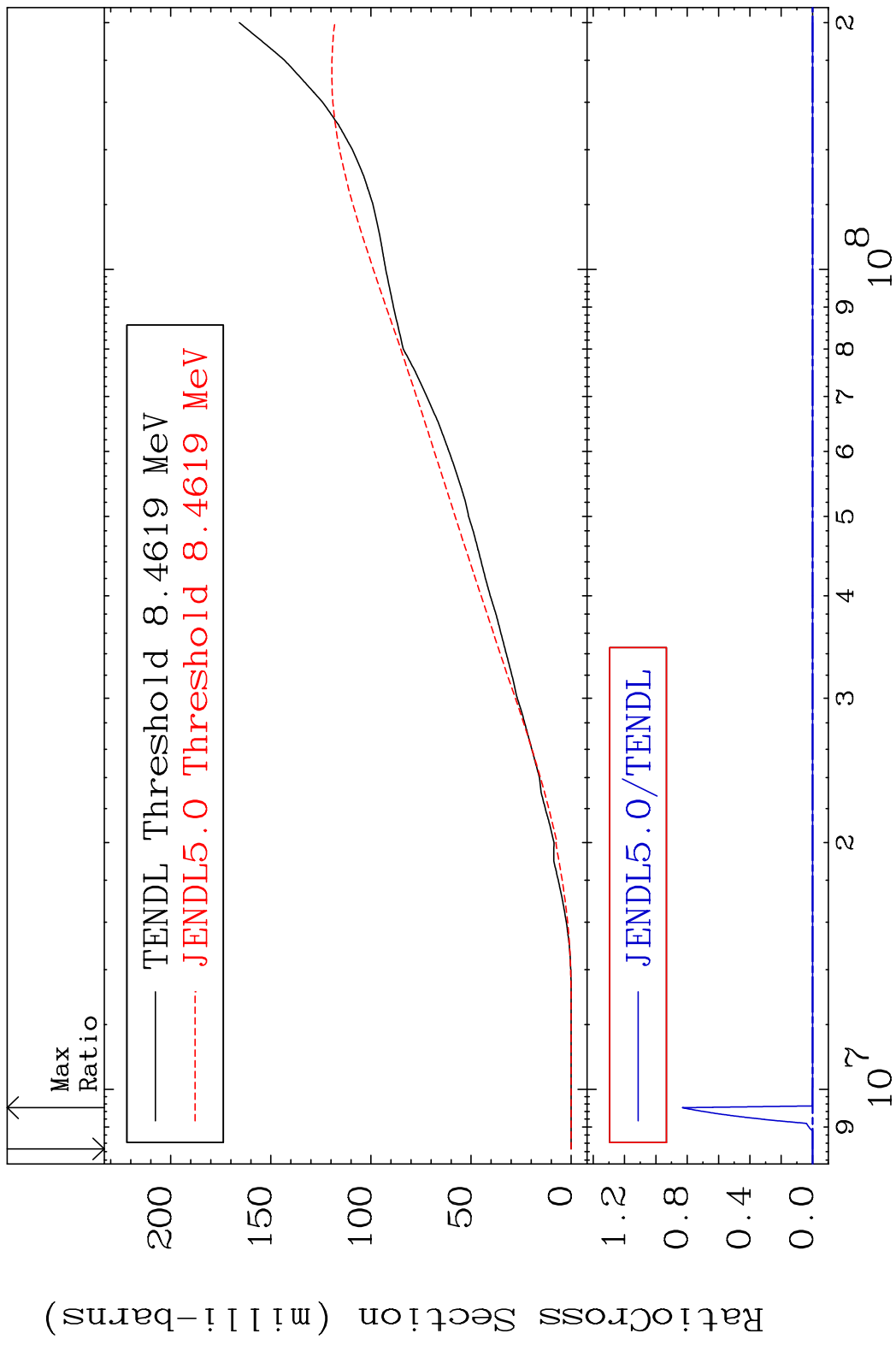
35 40-Zr-95



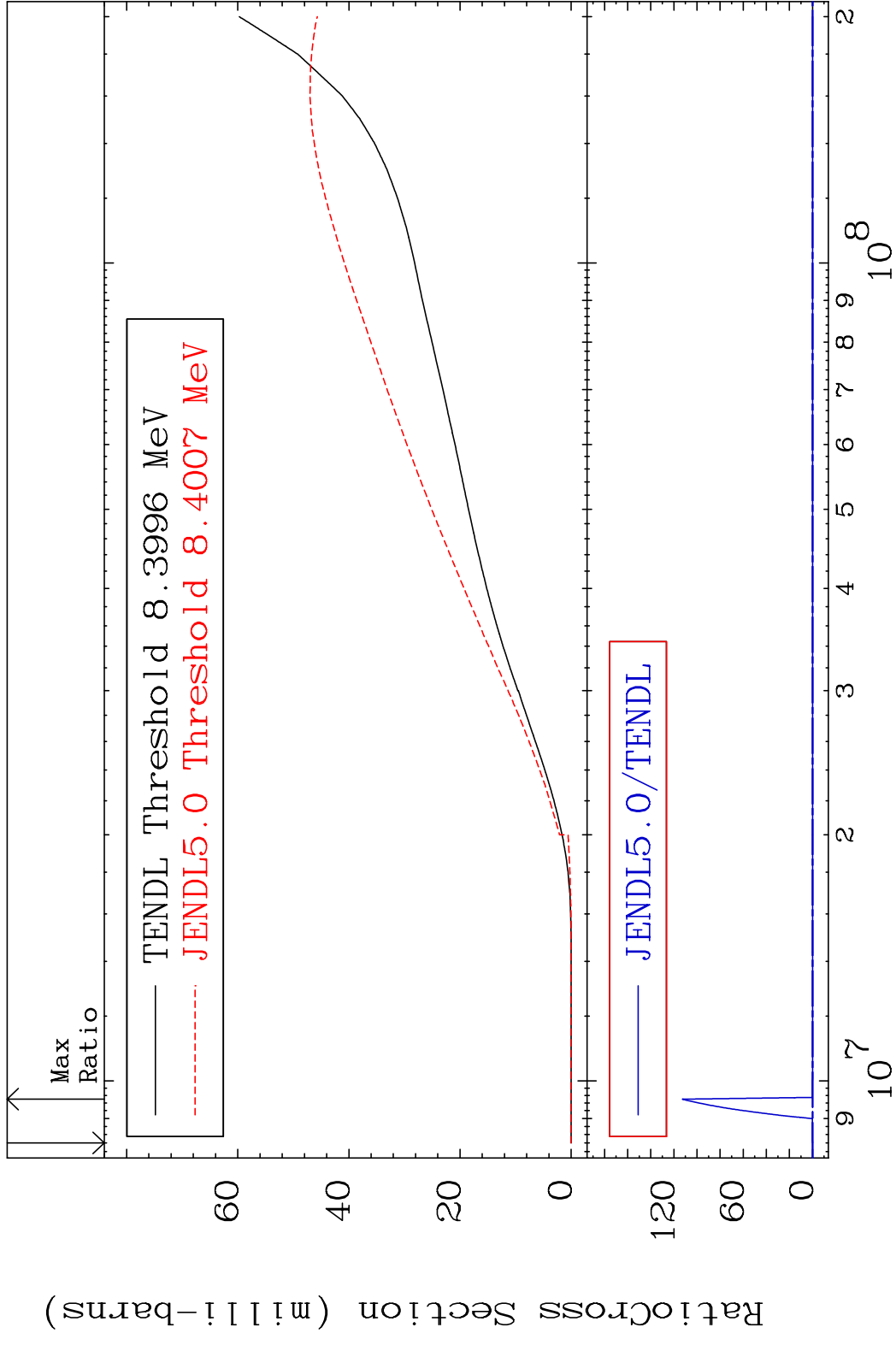
MAT 4040 Hydrogen Production 40-Zr-95
 Cross Section -92.66 To 9999. %



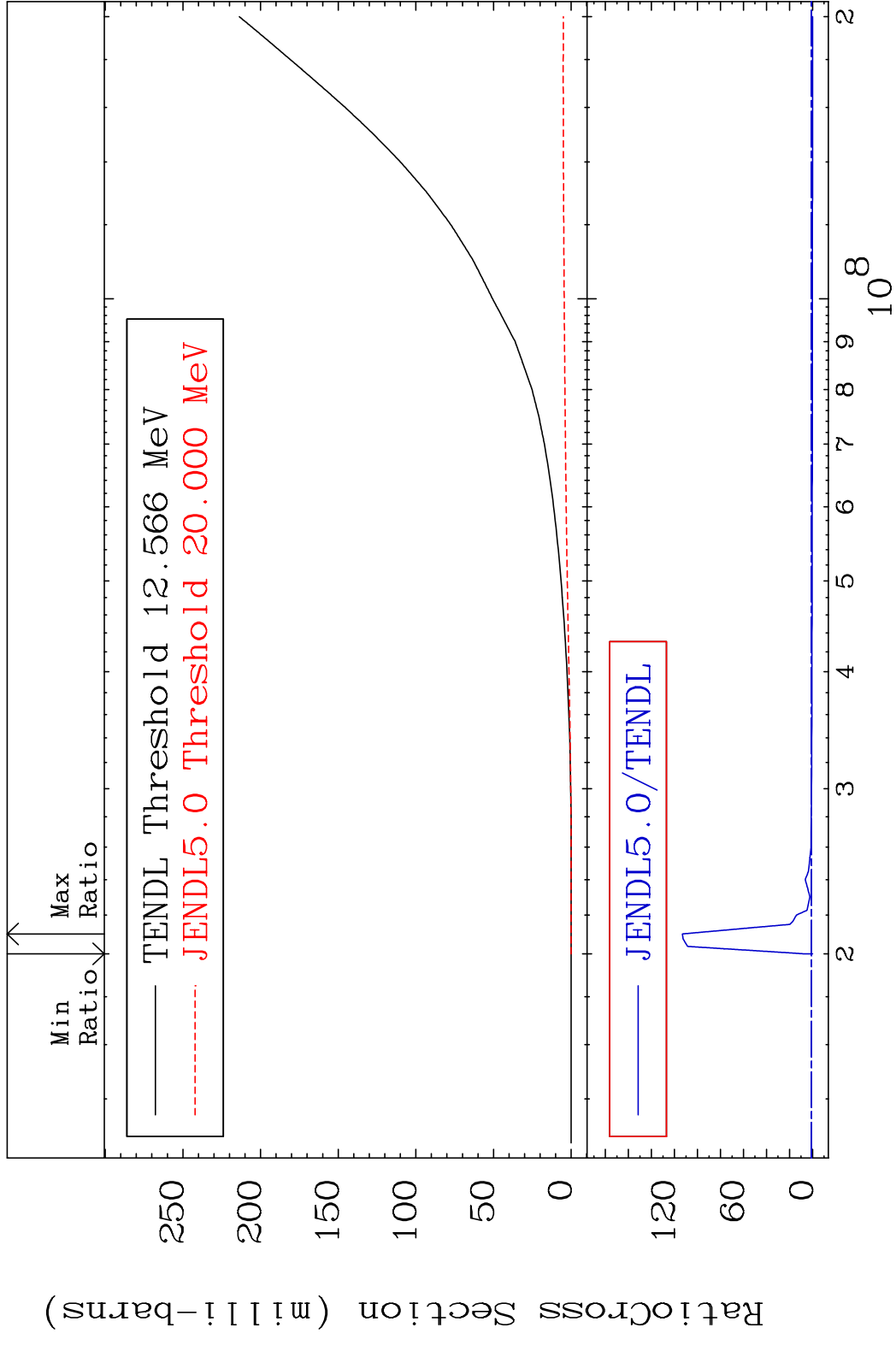
MAT 4040 Deuterium Production 40-Zr-95
 Cross Section -100.0 To 9999. %



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

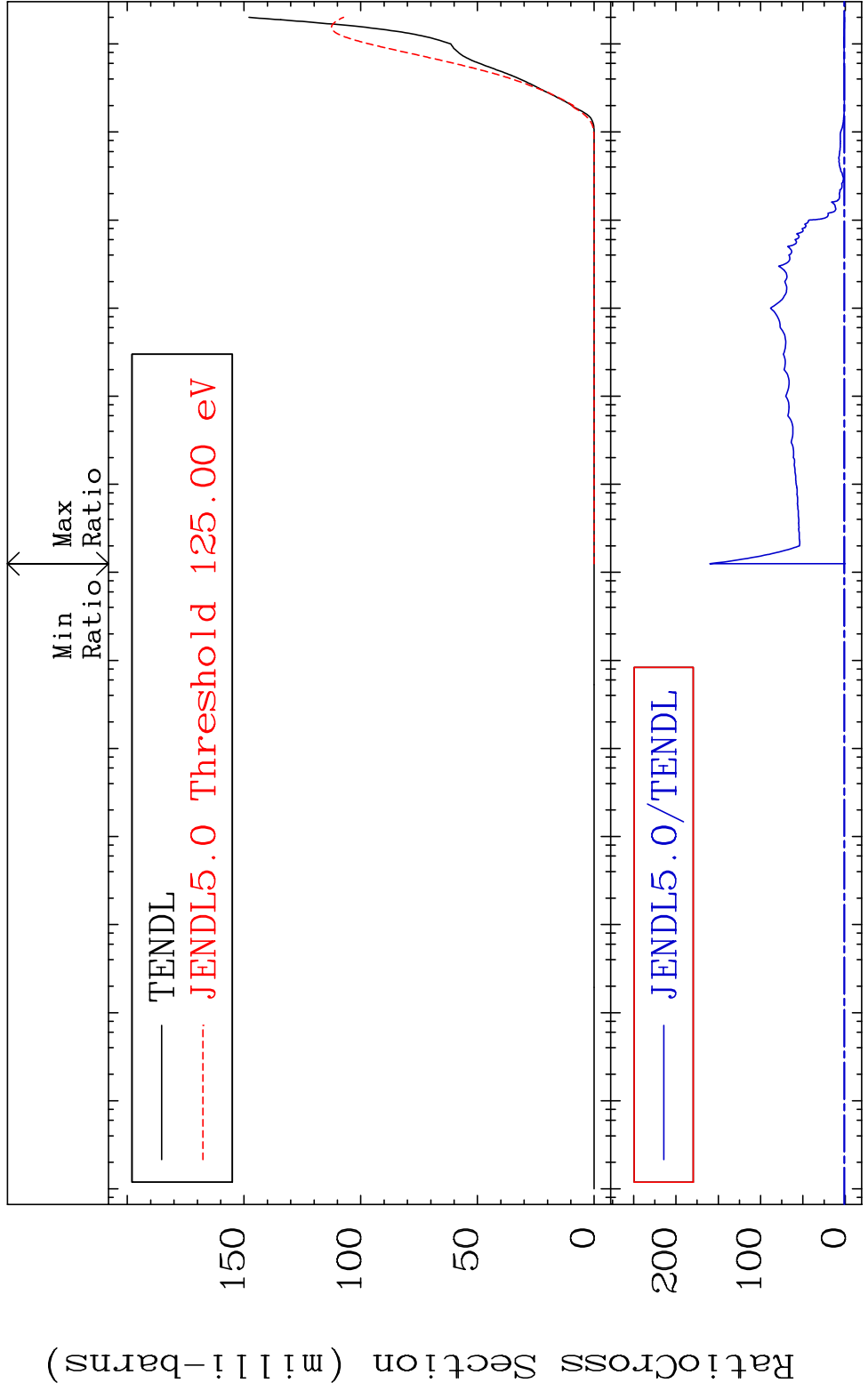


MAT 4040 He-3 Production 40-Zr-95
 Cross Section -100.0 To 9999. %

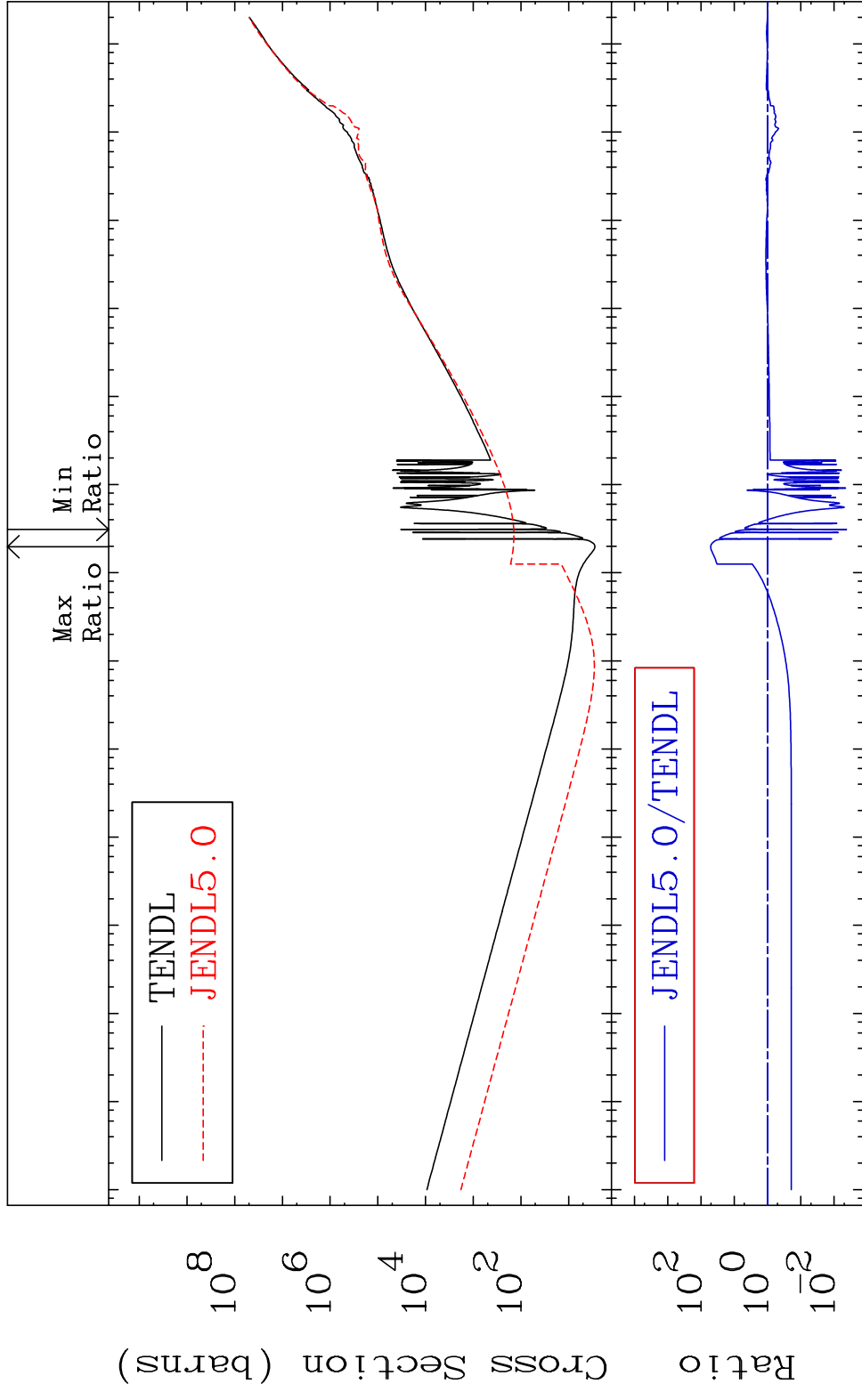


40 Incident Energy (eV) 40-Zr-95

MAT 4040 He-4 Production 40-Zr-95
Cross Section -100.0 To 9999. %

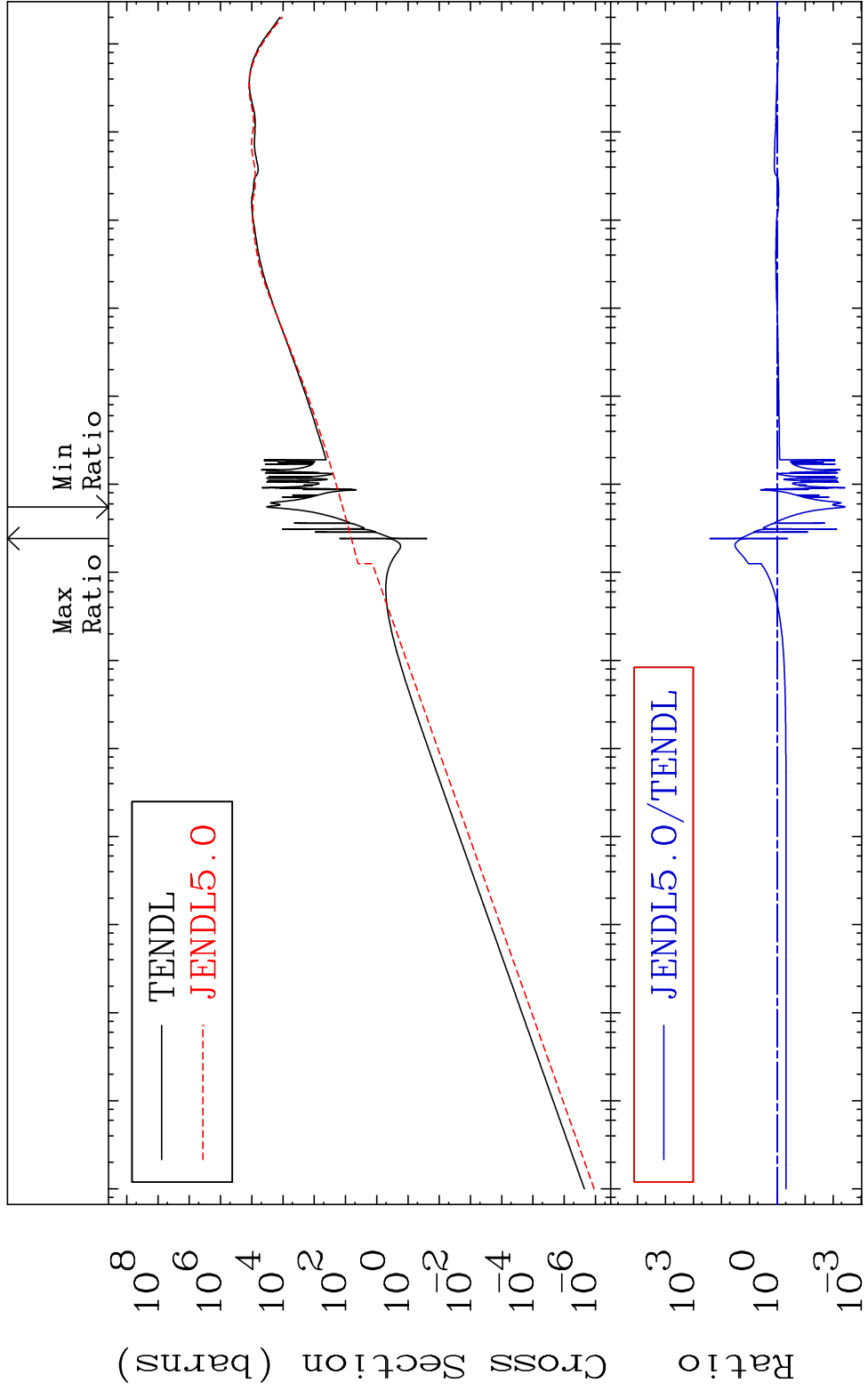


MAT 4040 Kerma total (eV-barns) 40-Zr-95
 Cross Section -99.57 To 5022. %



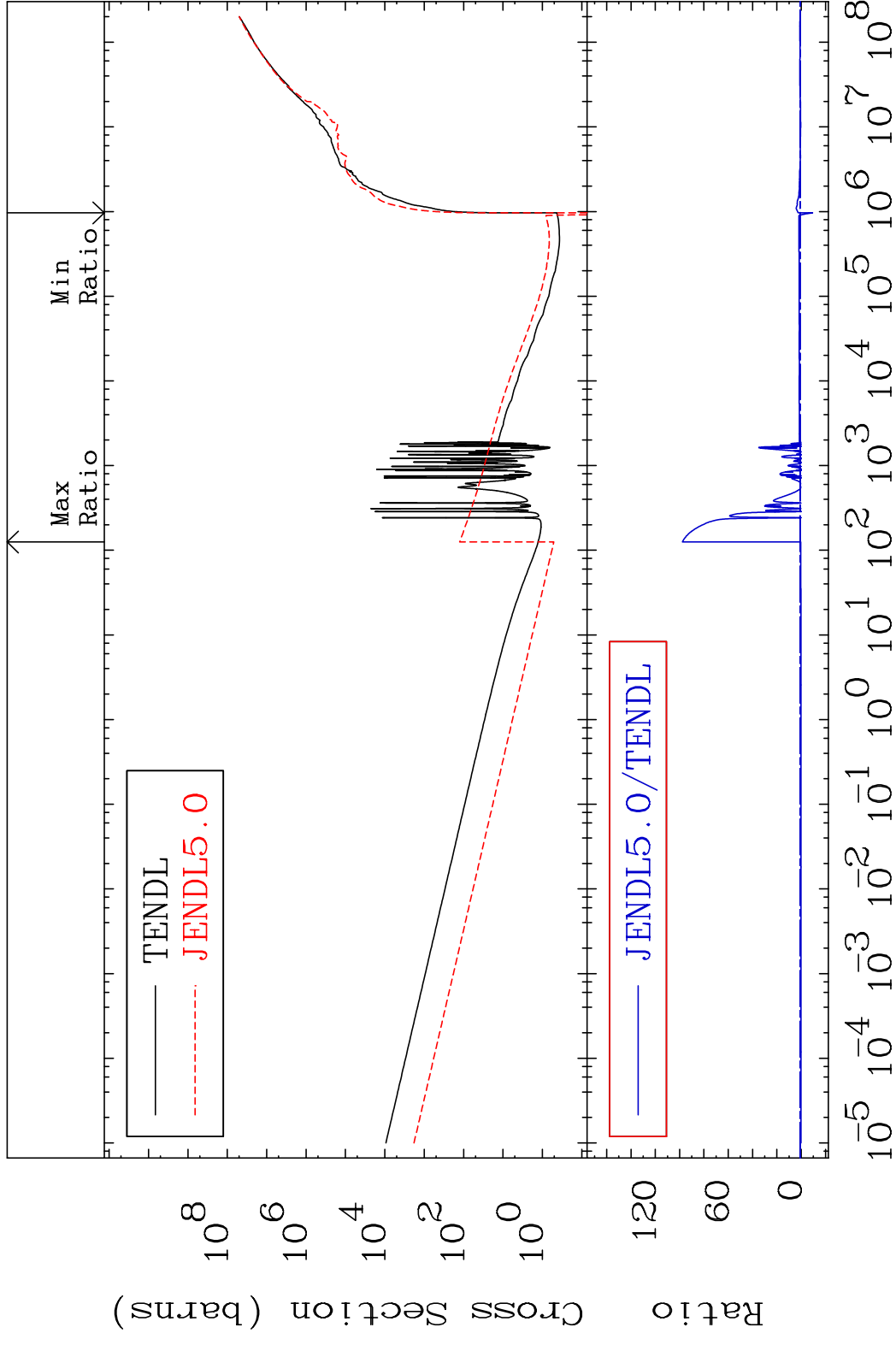
42 Incident Energy (eV) 40-Zr-95

MAT 4040 Kerma elastic Cross Section -99.63 To 9999. % 40-Zr-95



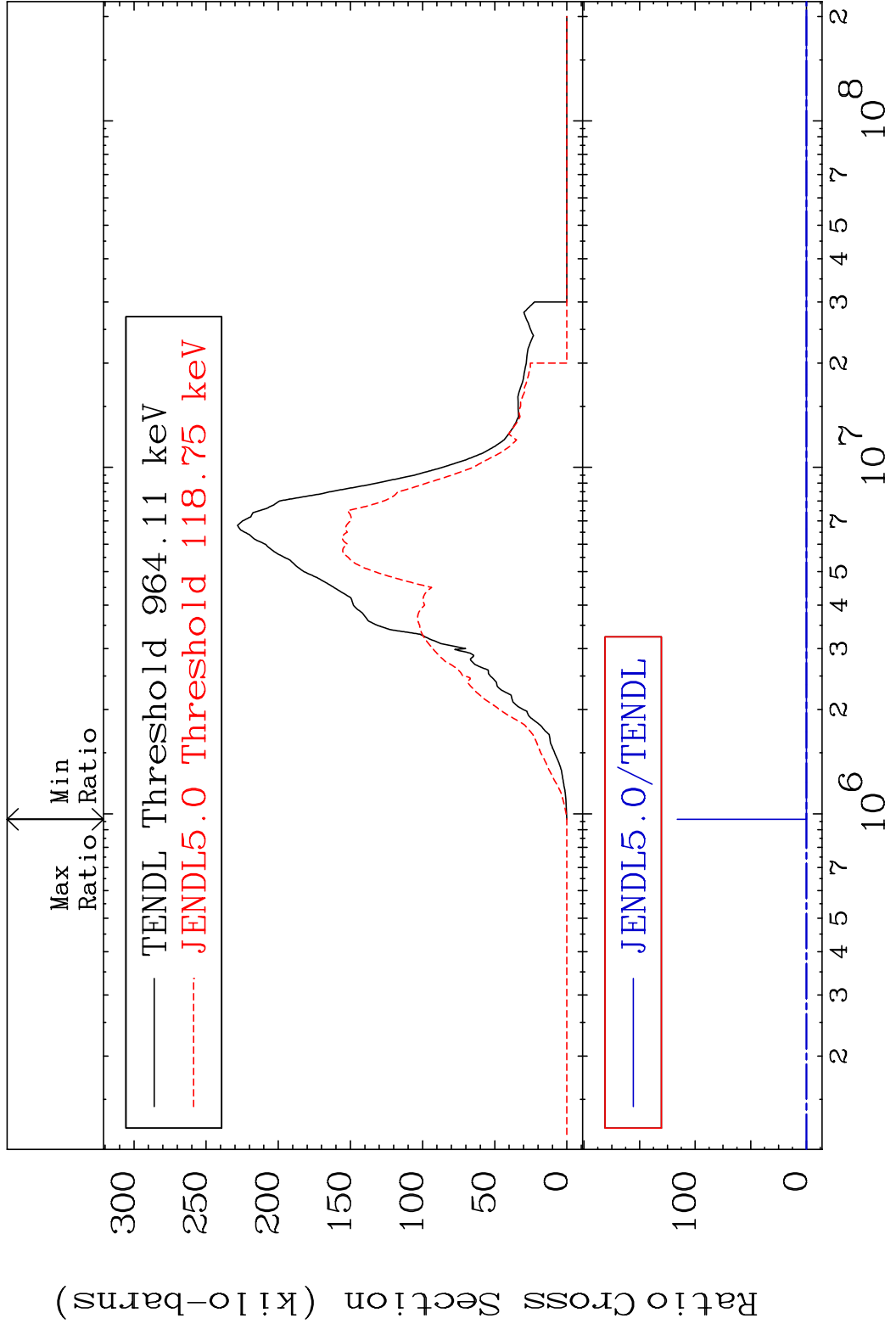
43 Incident Energy (eV) 40-Zr-95

MAT 4040 Kerma non-elastic (all but mt2) 40-Zr-95
 Cross Section -1034. To 9674. %

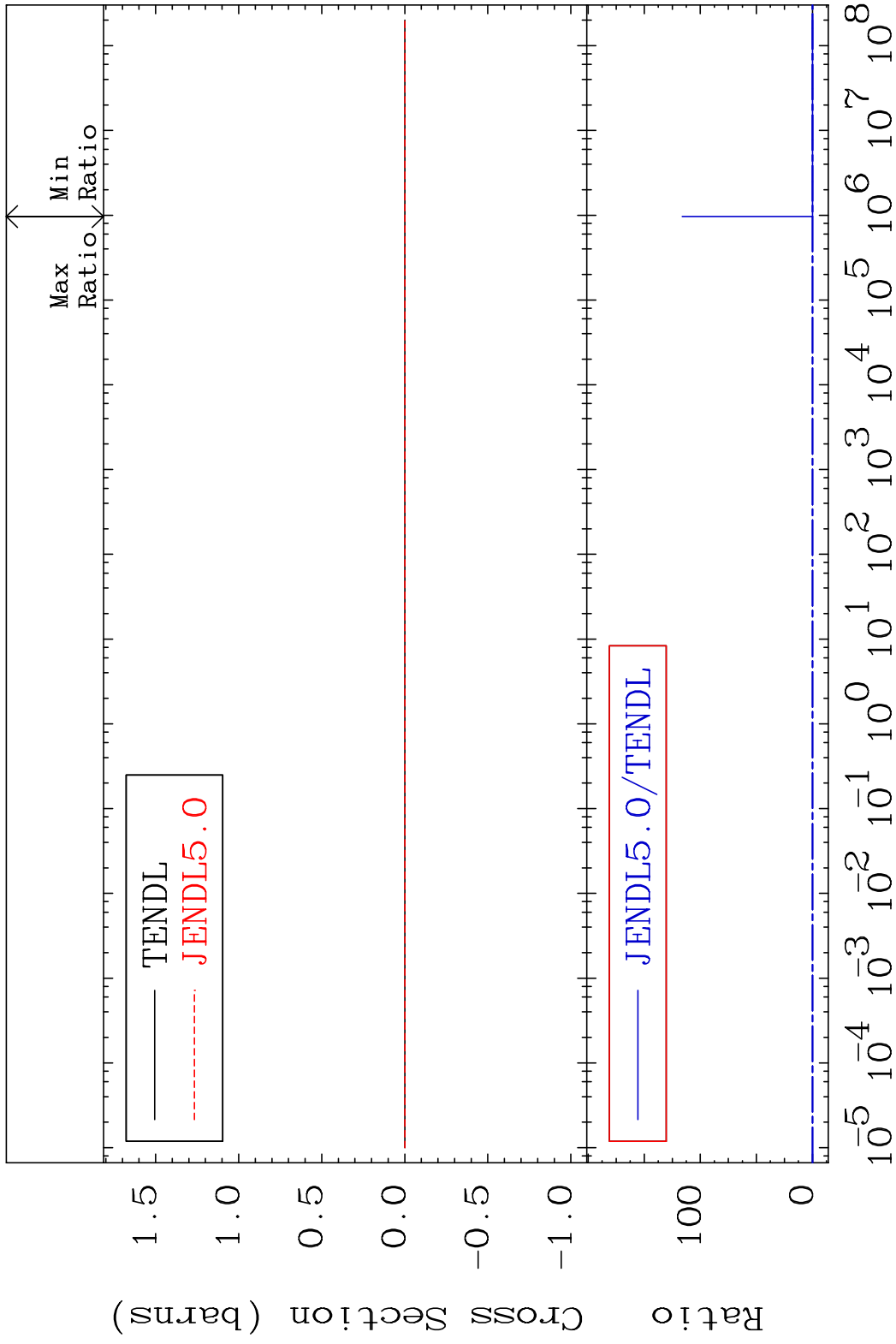


44 40-Zr-95

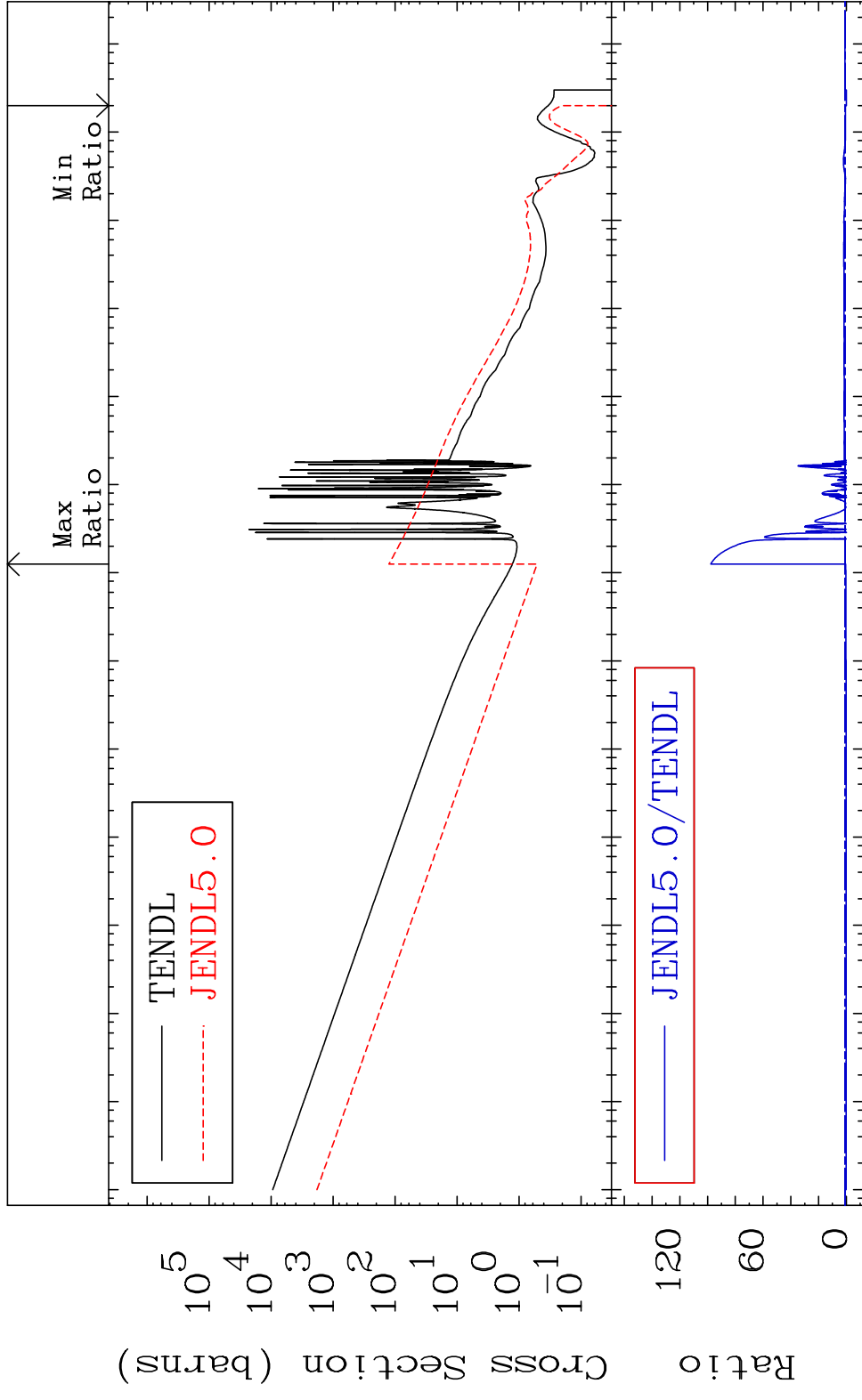
MAT 4040 Kerma inelastic (mt51-91) 40-Zr-95
 Cross Section -9999. To 9999. %



MAT 4040 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-95
 Cross Section -9999. To 9999. %

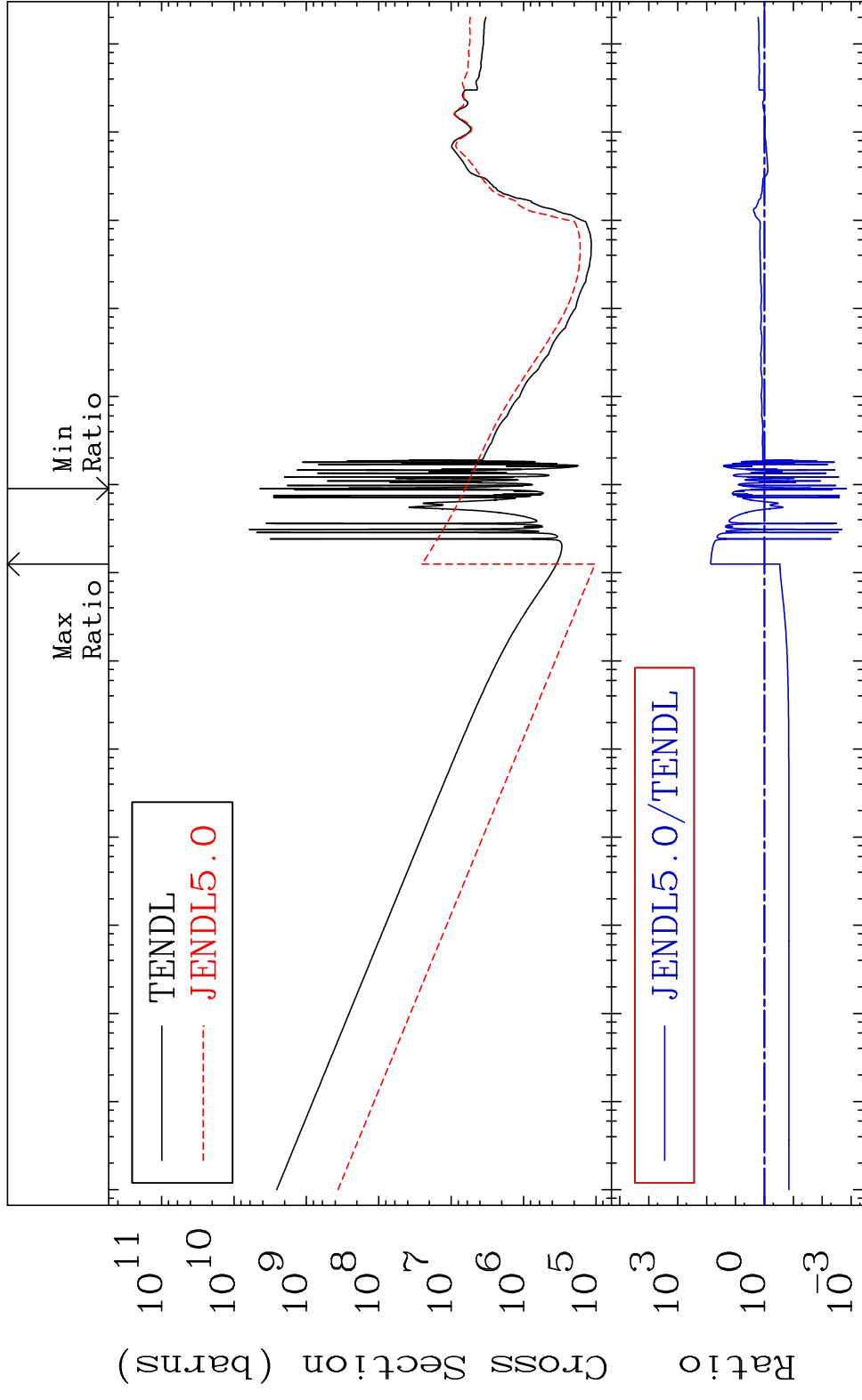


MAT 4040 Kerma capture (mt102) 40-Zr-95
Cross Section -100.0 To 9674. %



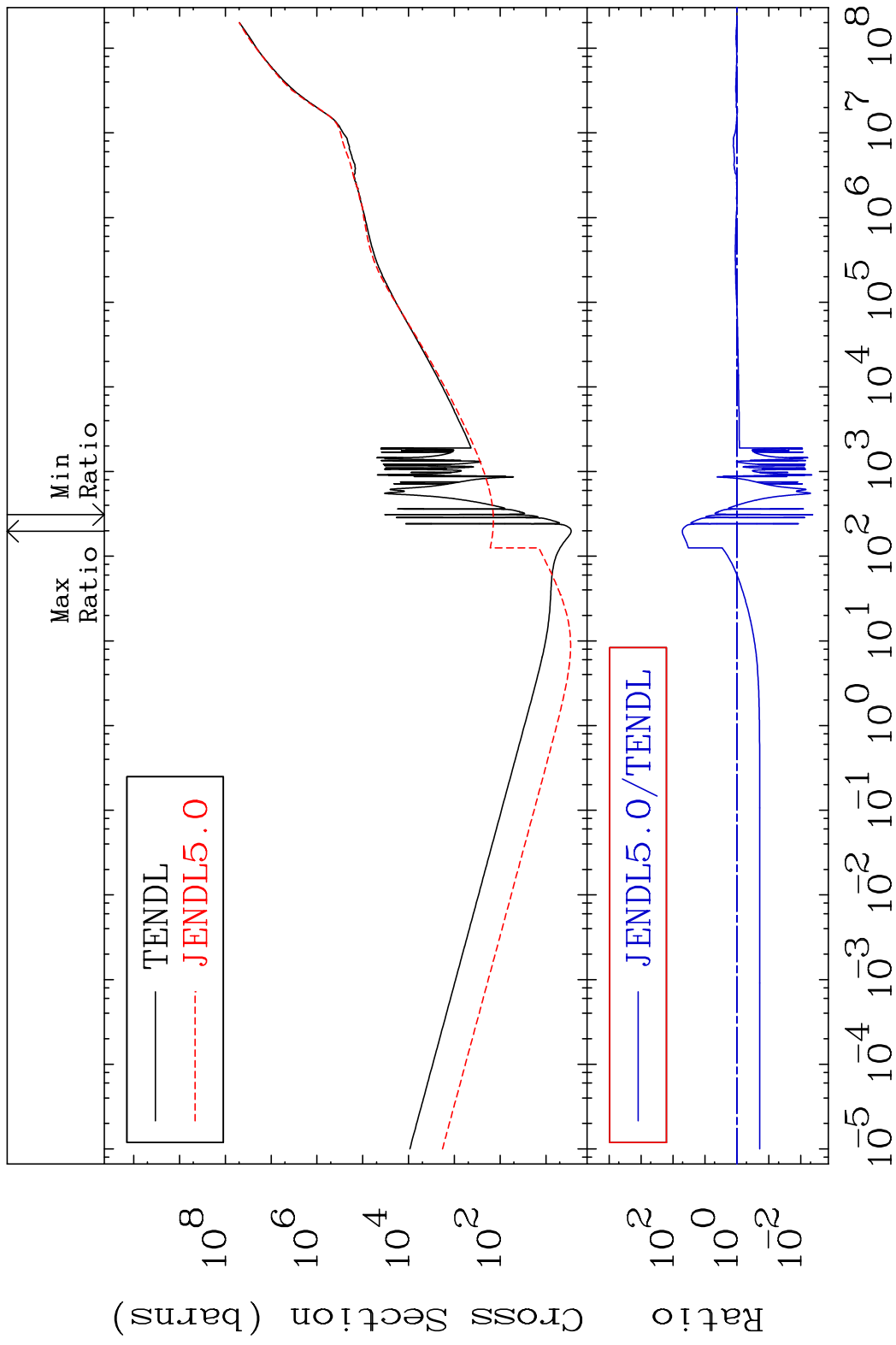
47 Incident Energy (eV) 40-Zr-95

MAT 4040 Total photon (eV-barns) 40-Zr-95
Cross Section -99.85 To 7103. %

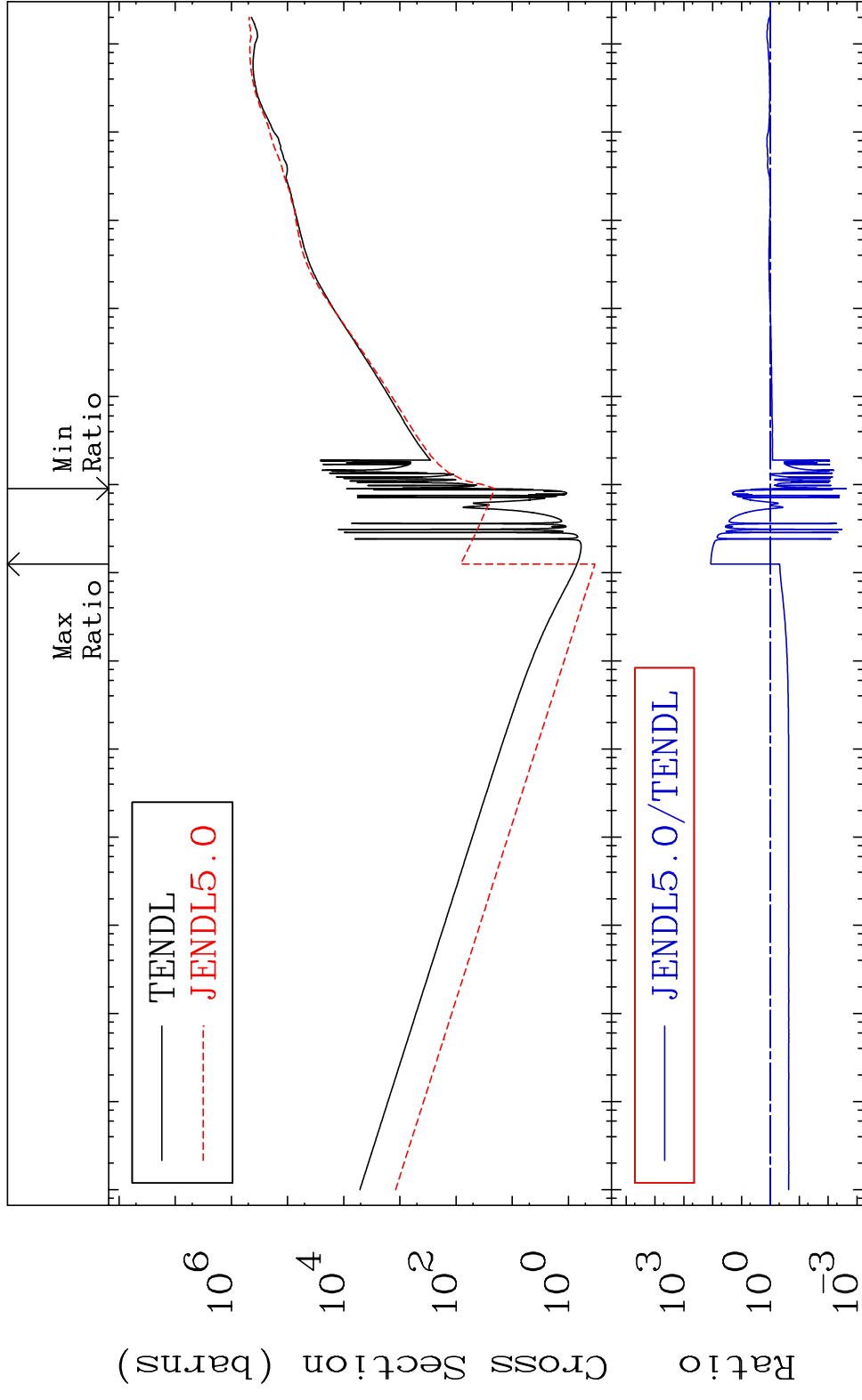


48 Incident Energy (eV) 40-Zr-95

MAT 4040 Total kinematic kerma (high limit) 40-Zr-95
Cross Section -99.57 To 5022. %



MAT 4040 Dpa total (eV-barns) 40-Zr-95
 Cross Section -99.777 To 9999.9 %



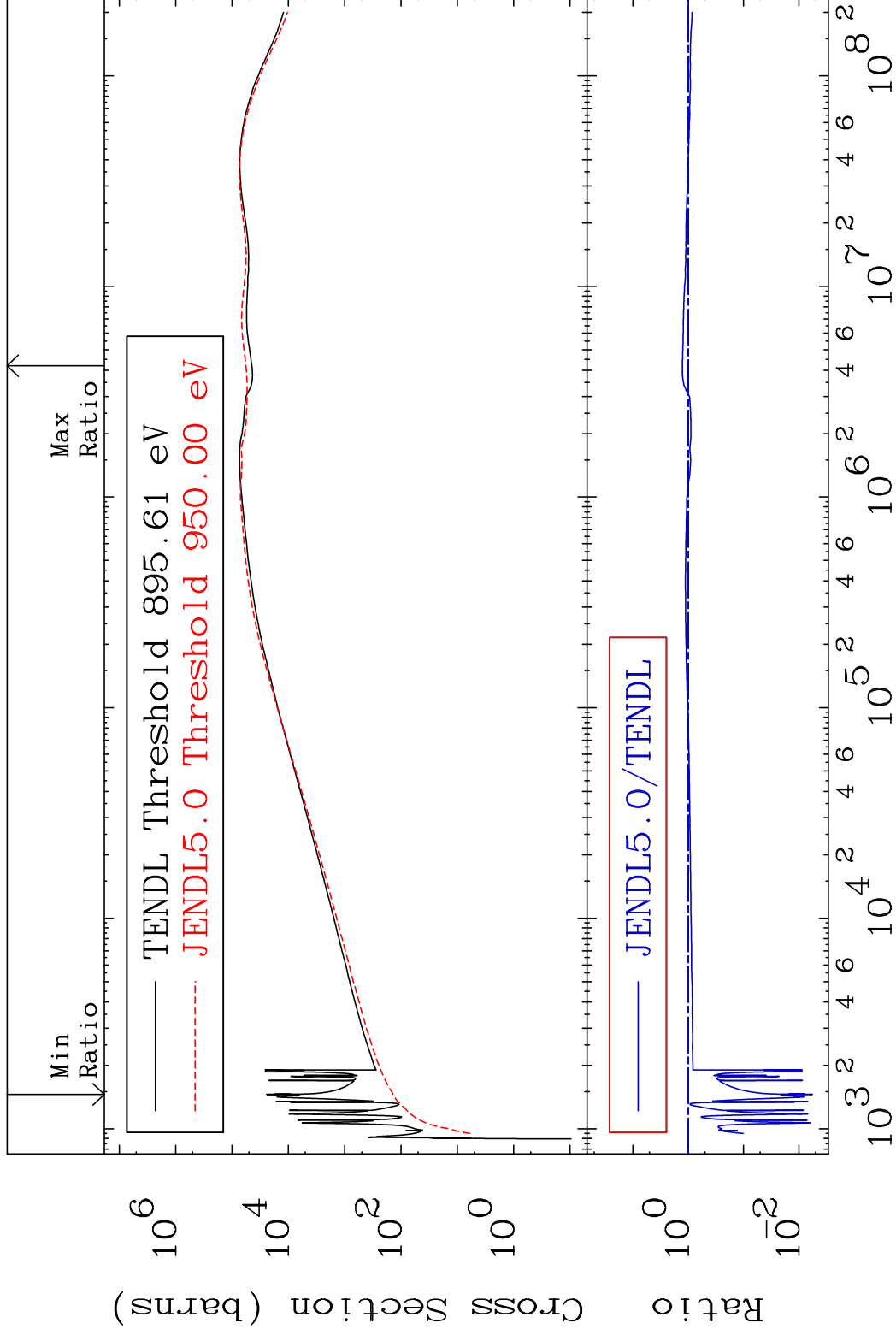
50 Incident Energy (eV) 40-Zr-95

MAT 4040

Dpa elastic (mt2)

40-Zr-95

Cross Section -99.43 To 27.68 %

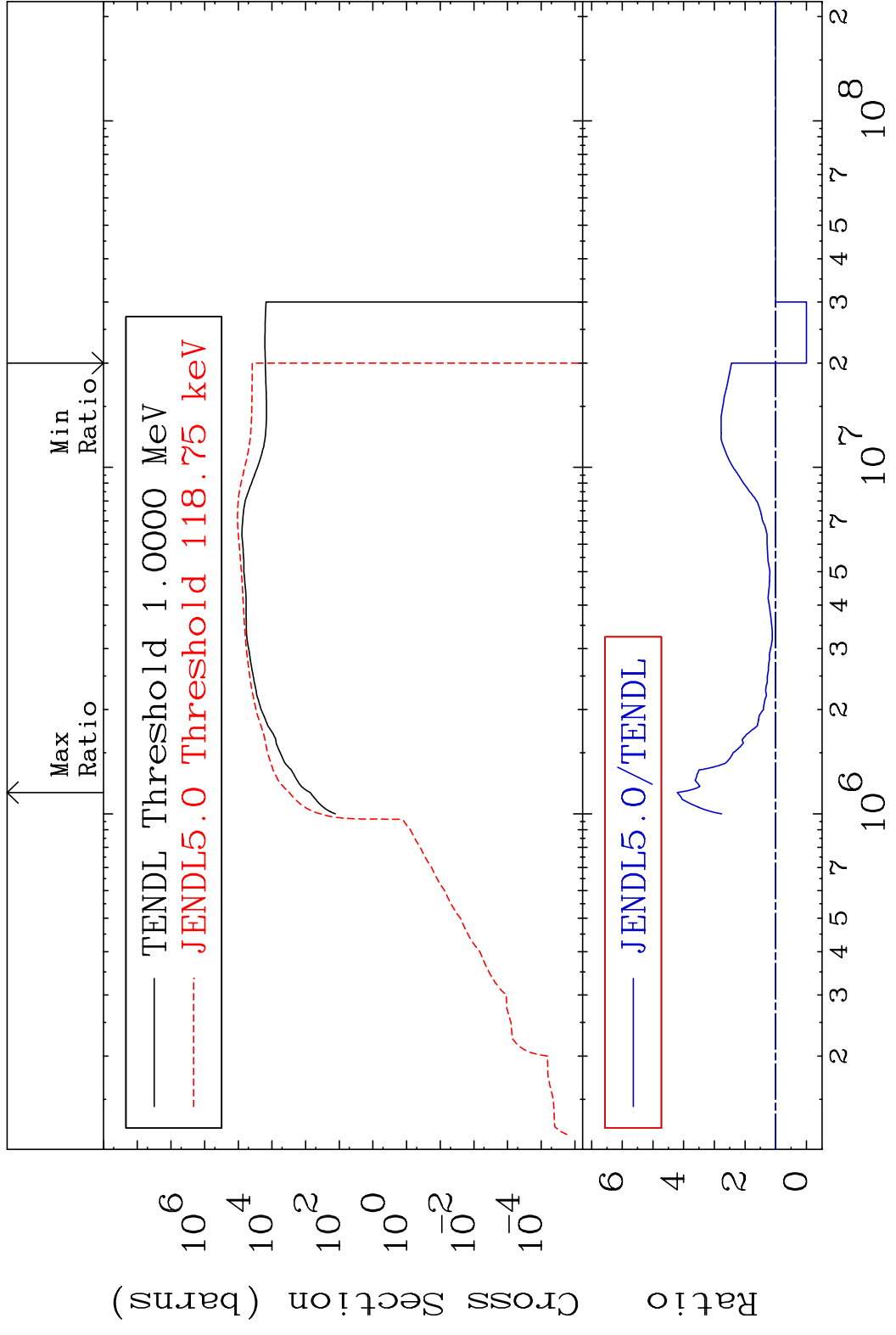


51

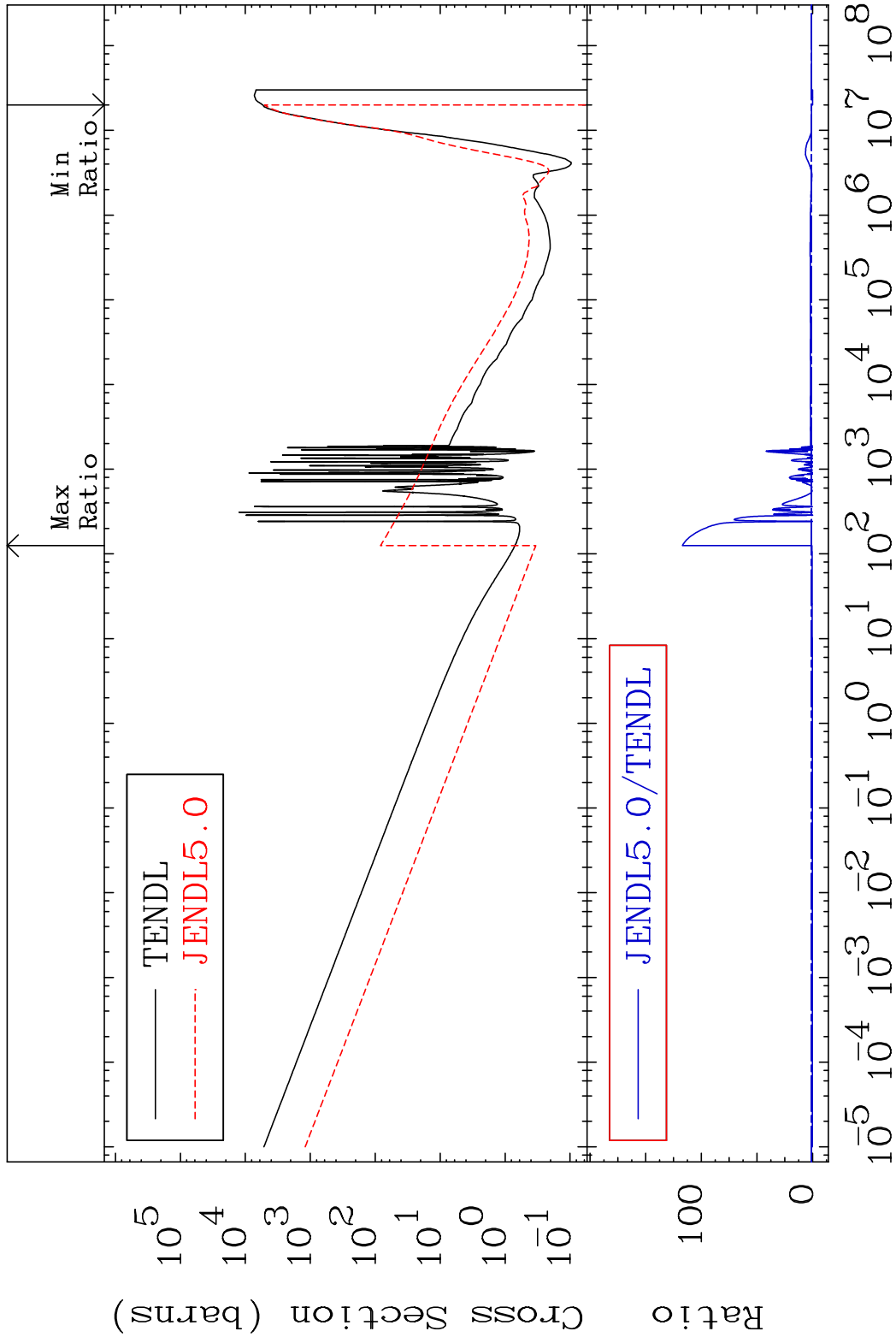
Incident Energy (eV)

40-Zr-95

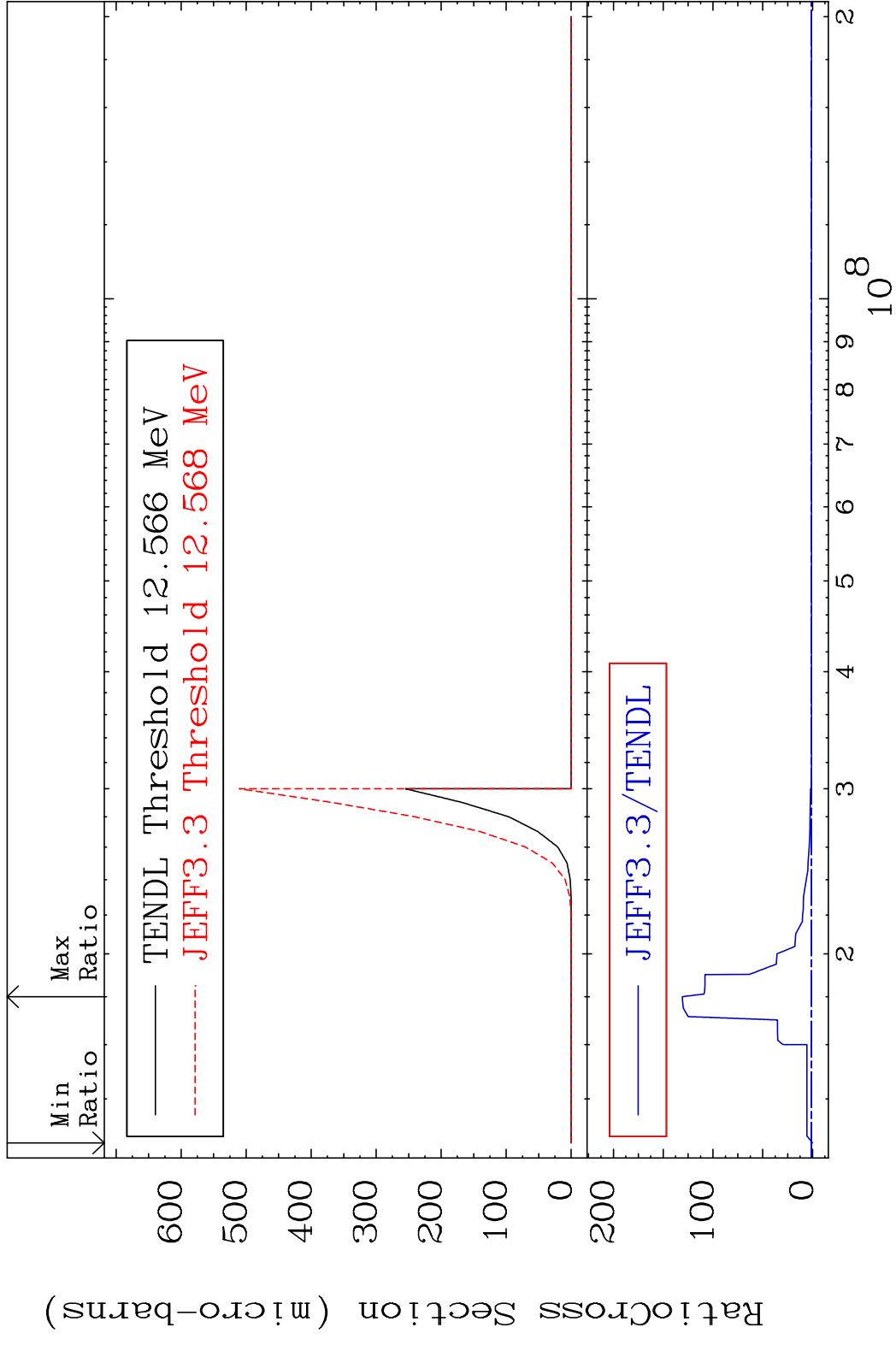
MAT 4040 Dpa inelastic (mt51-91) 40-Zr-95
 Cross Section -100.0 To 321.1 %

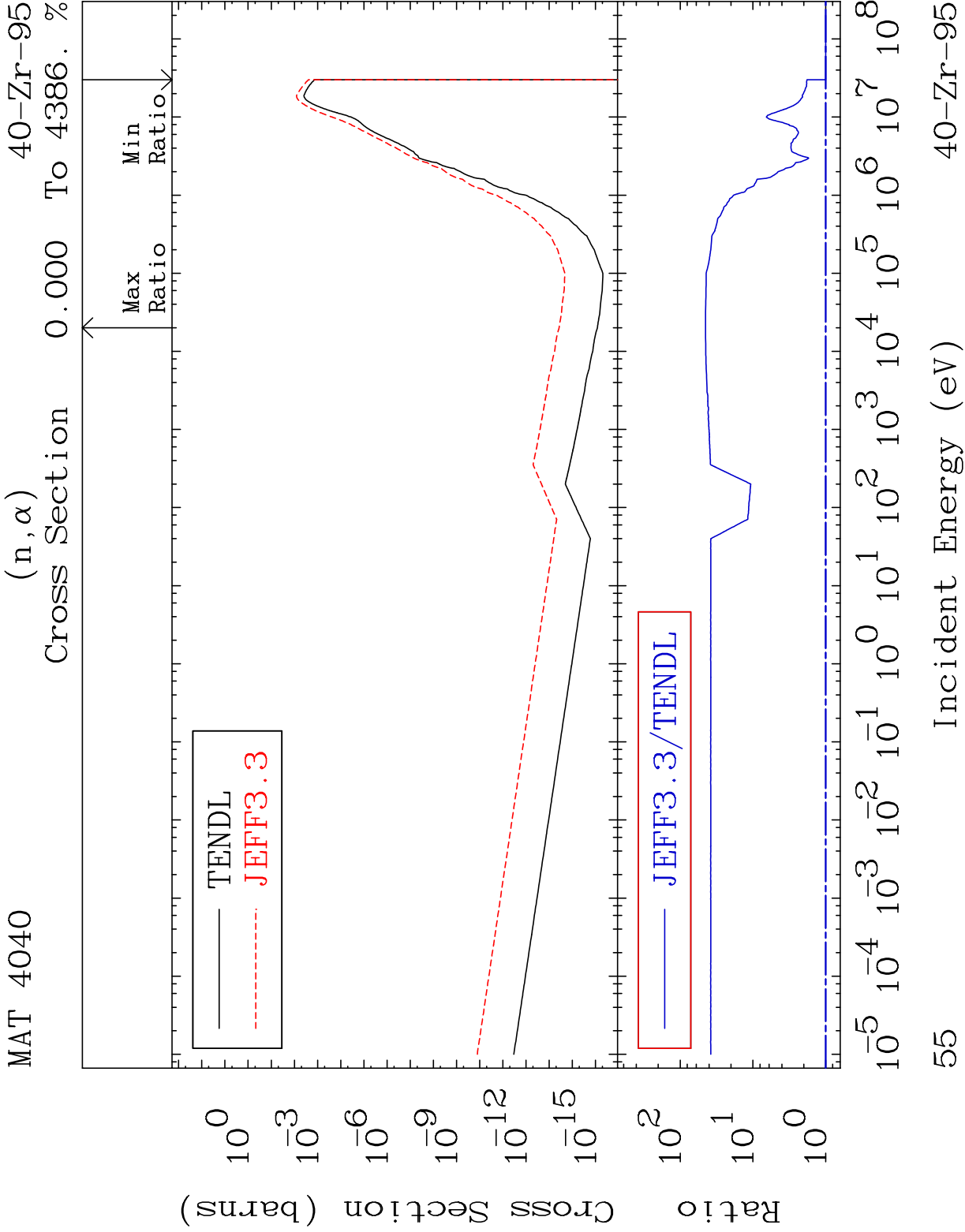


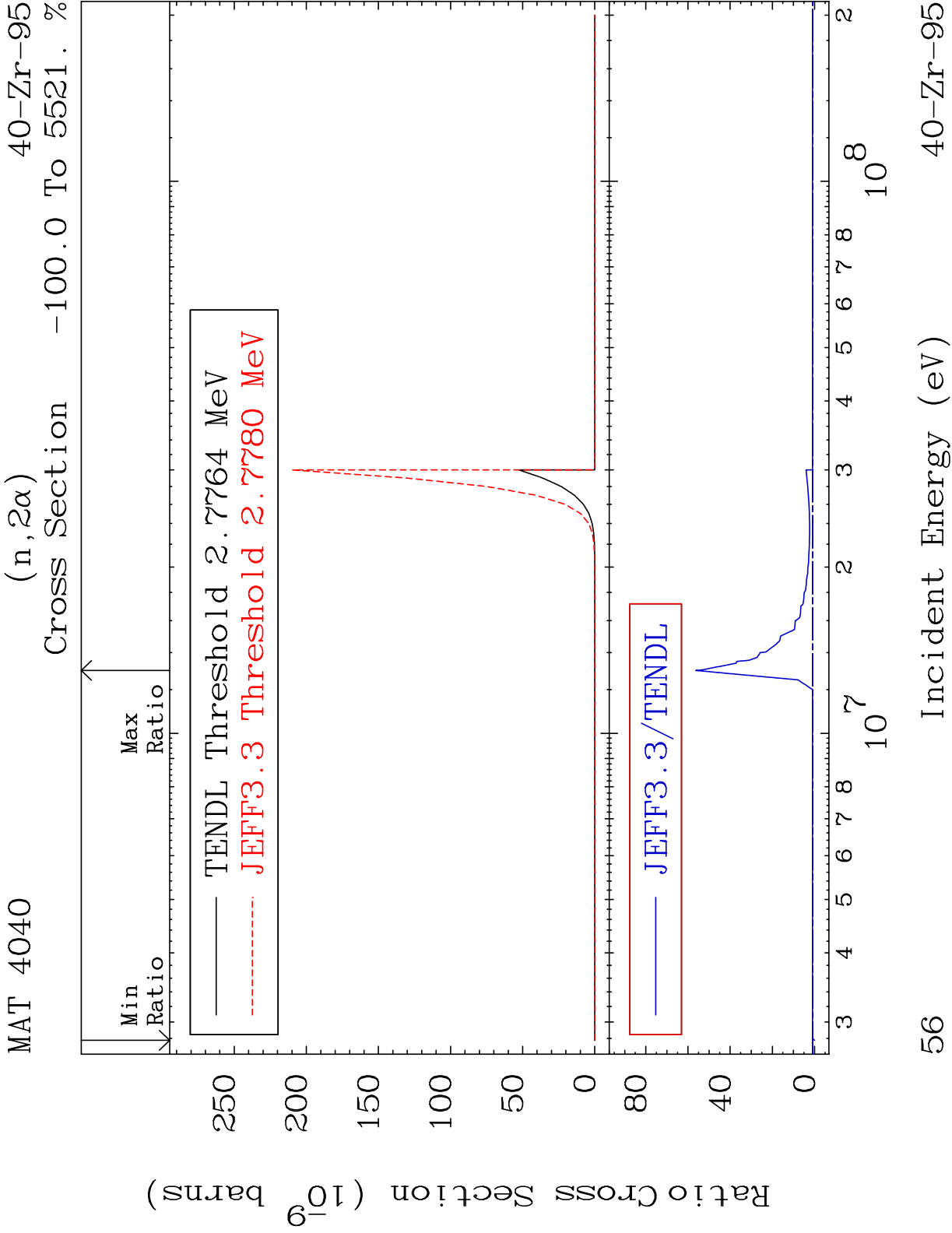
MAT 4040 Dpa disappearance (mt102 -120) 40-Zr-95
Cross Section -100.0 To 9999. %



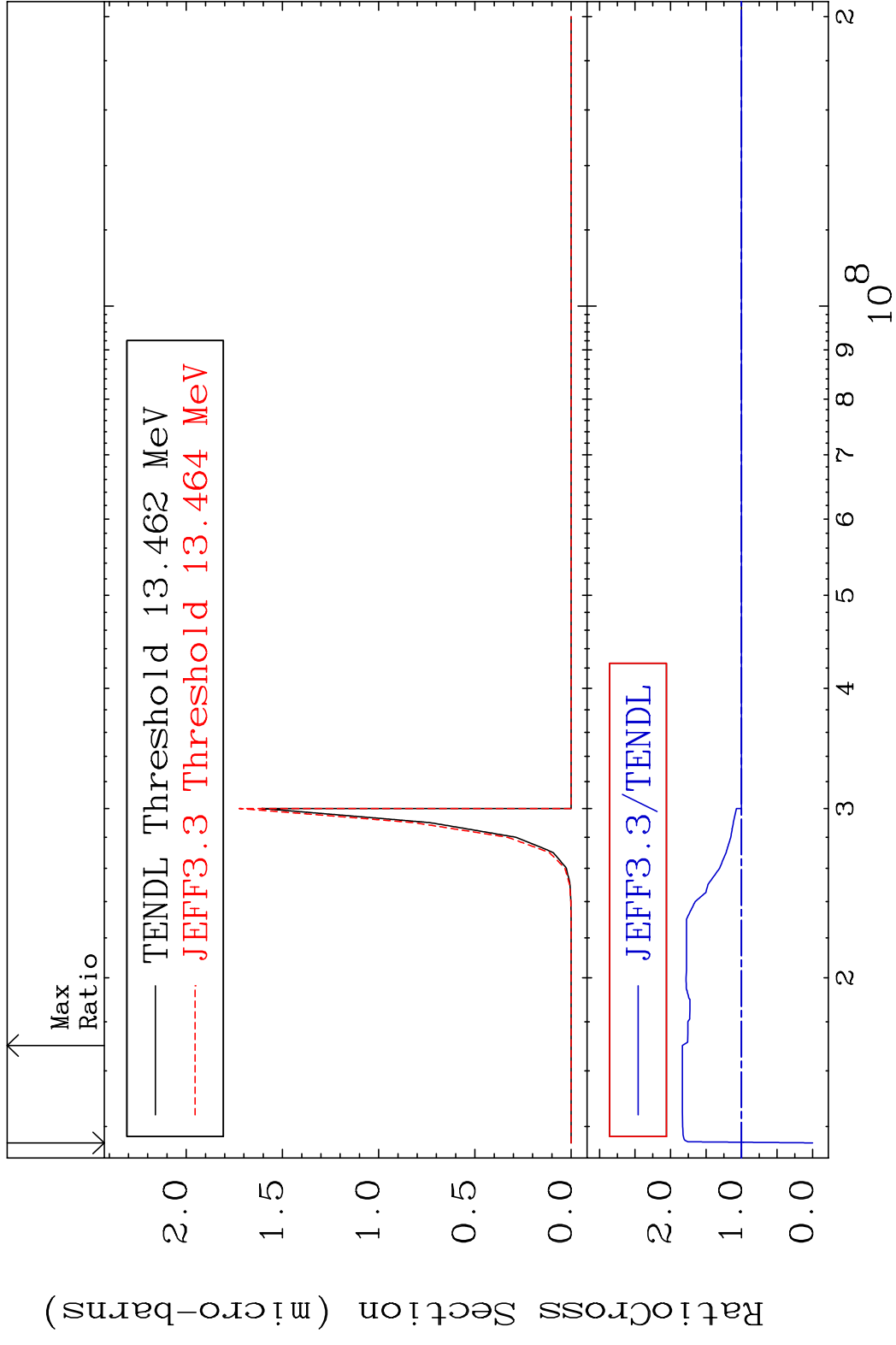
MAT 4040 (n, He-3) 40-Zr-95
 Cross Section -100.0 To 9999. %



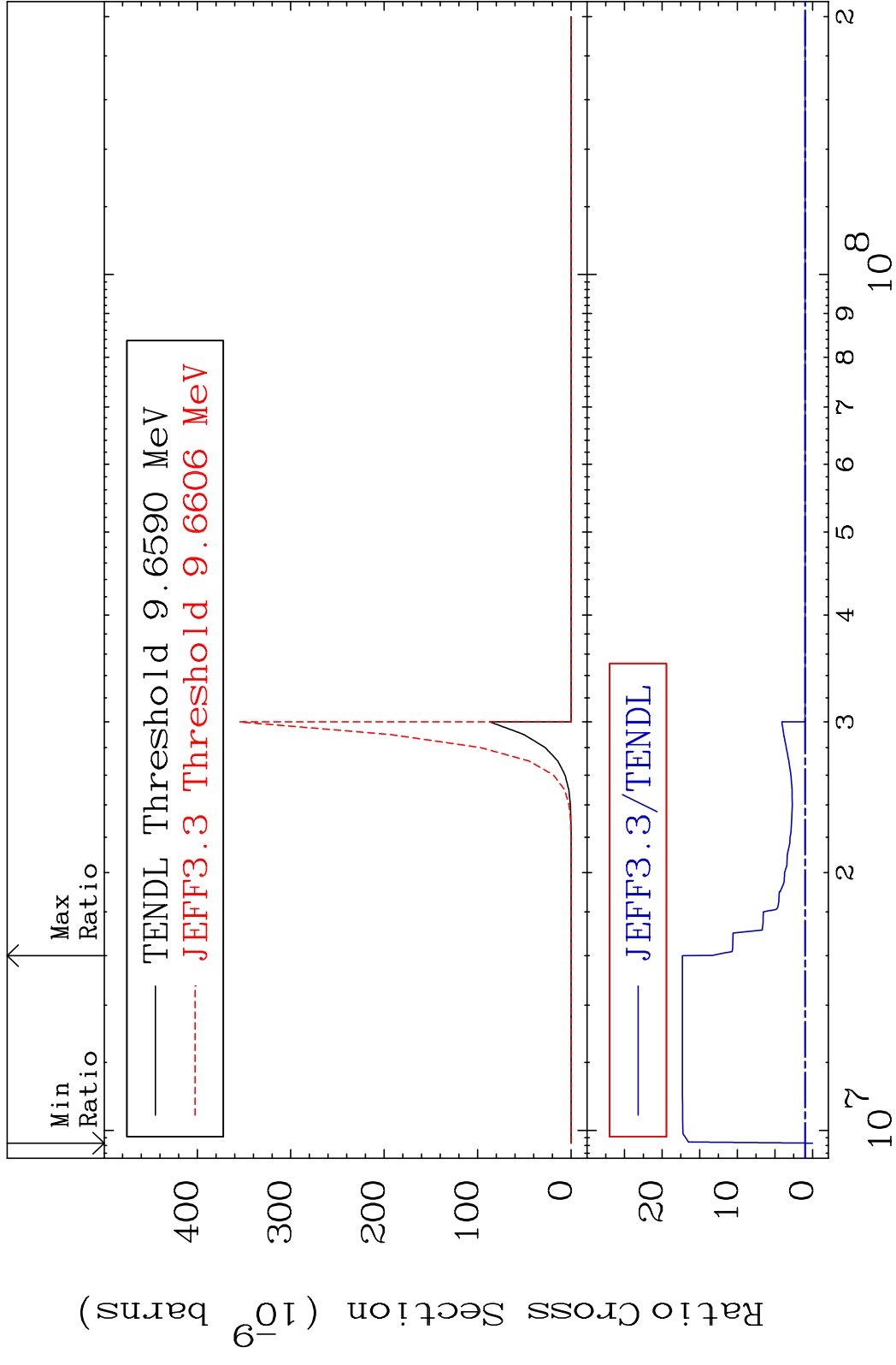




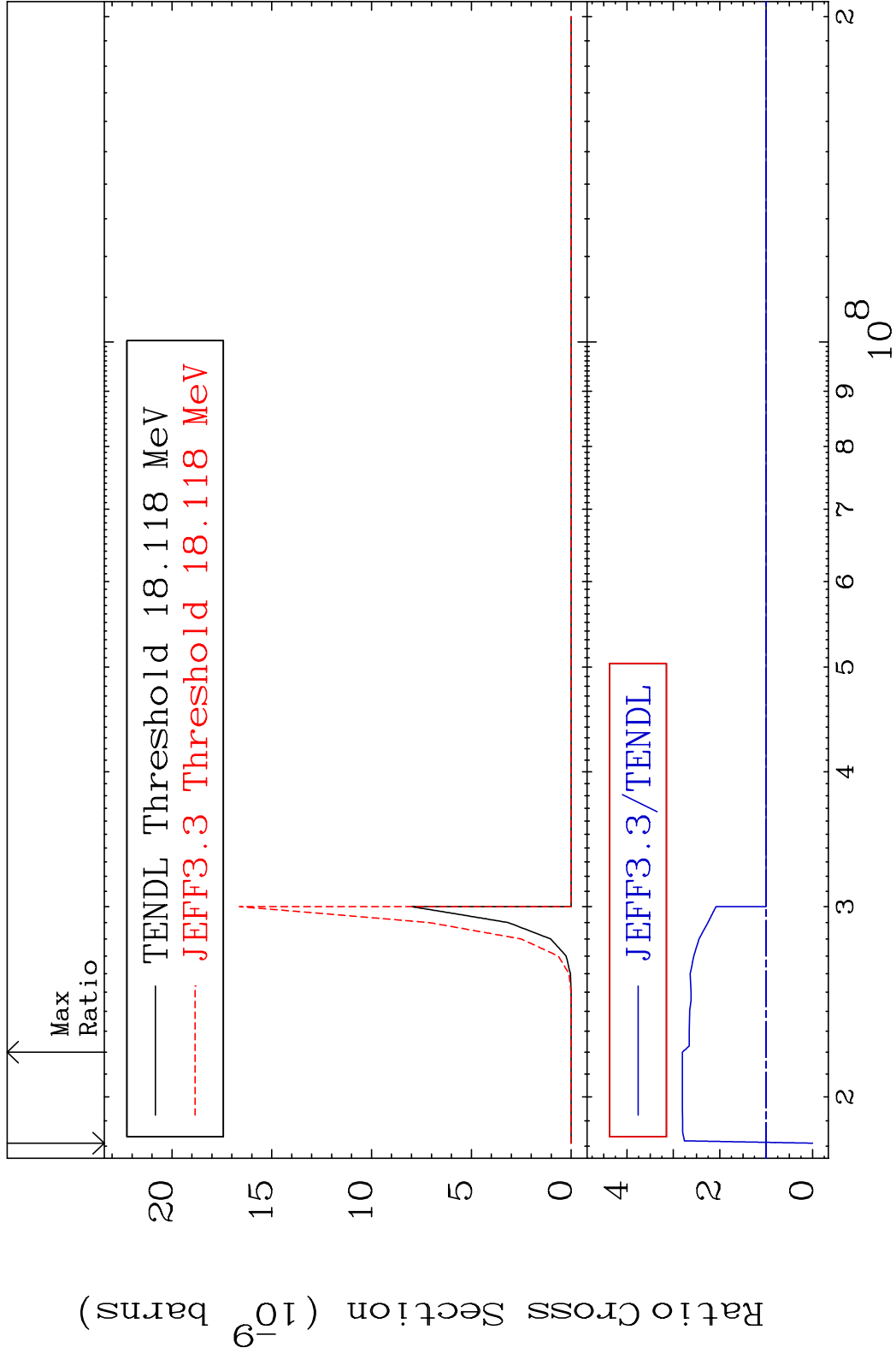
MAT 4040 (n,2p) 40-Zr-95
 Cross Section -100.0 To 83.36 %



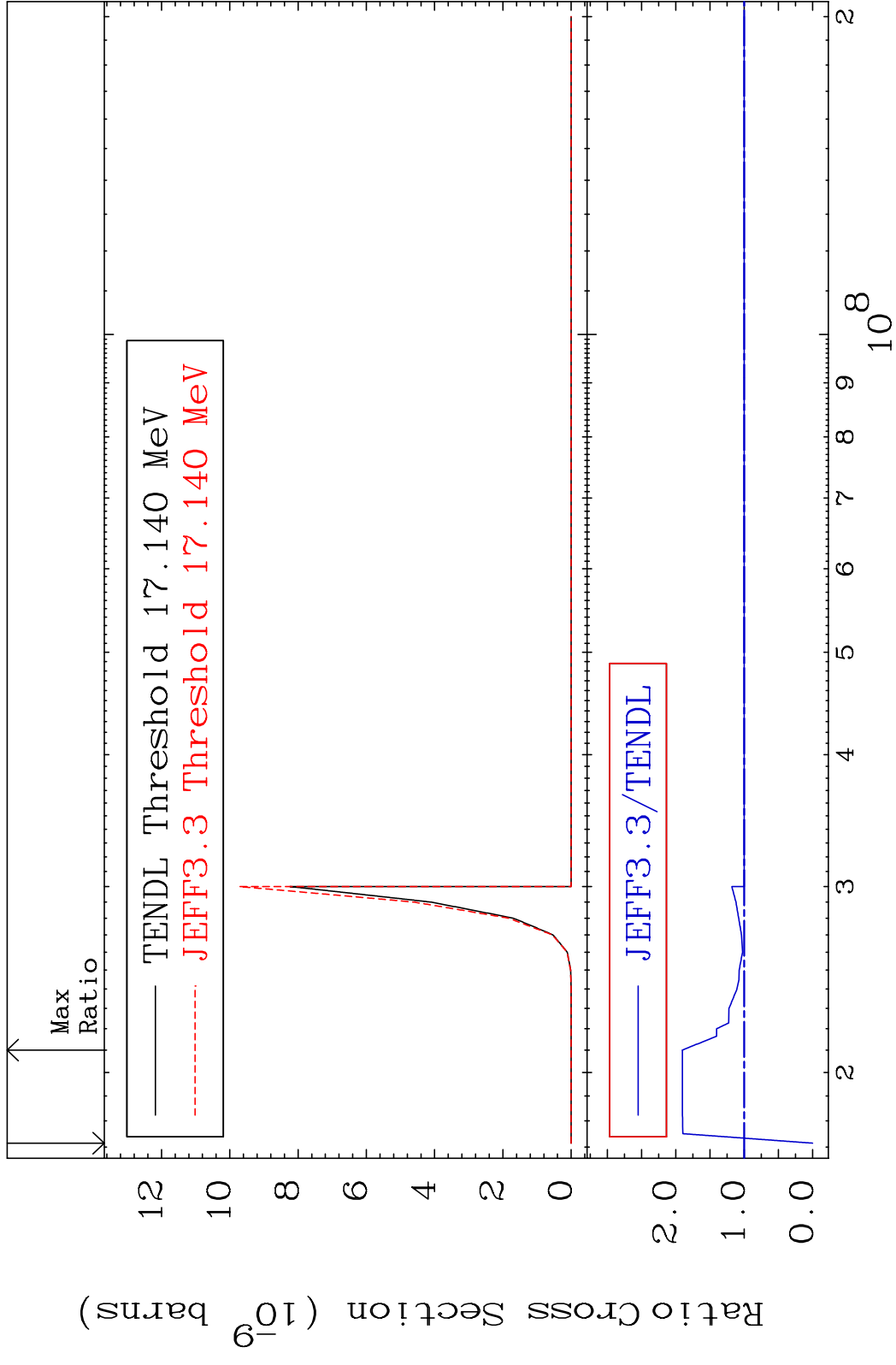
MAT 4040 (n,p) α 40-Zr-95
 Cross Section -100.0 To 1631. %



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

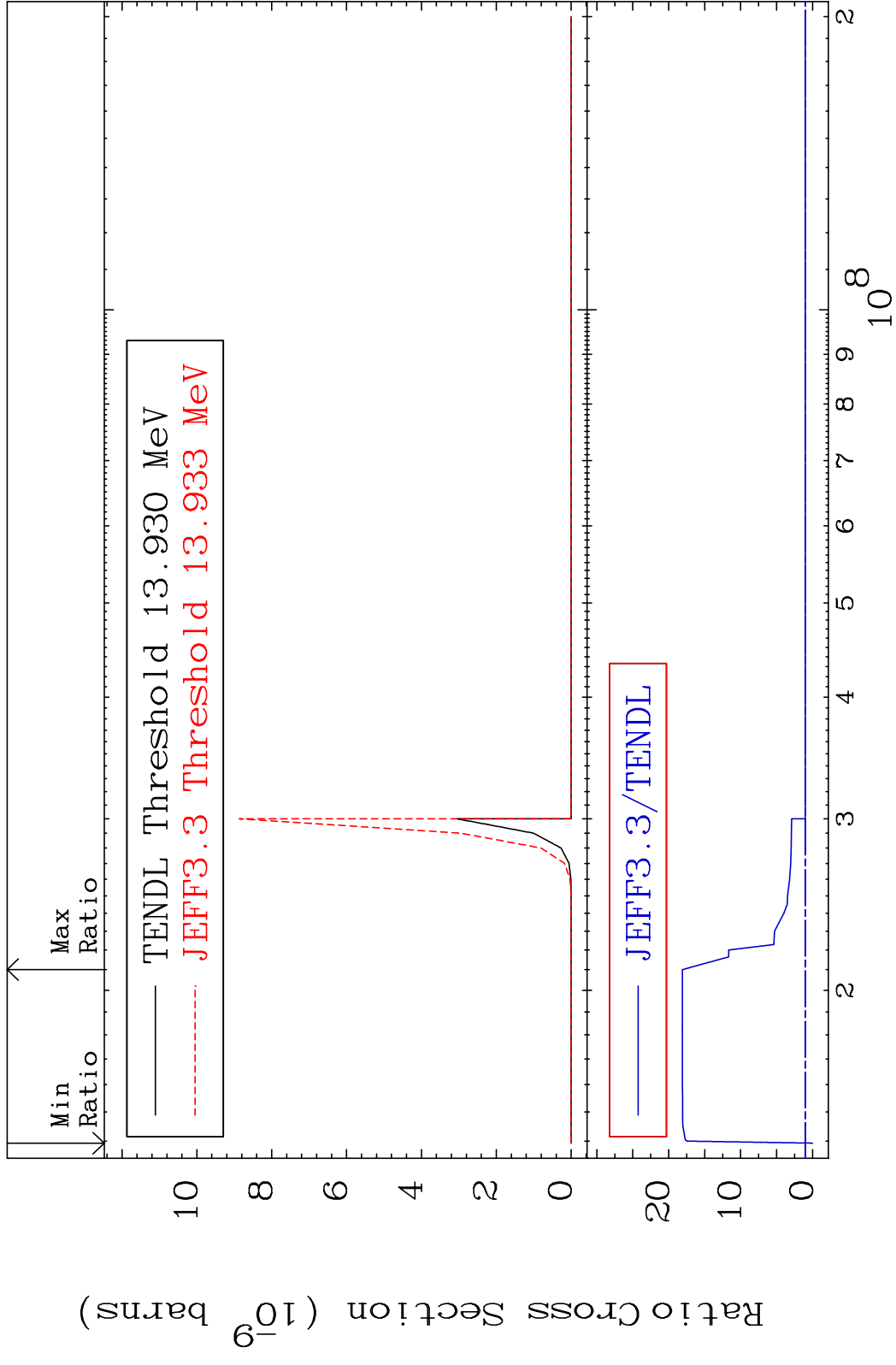


MAT 4040 (n,p) t 40-Zr-95
 Cross Section -100.0 To 90.31 %

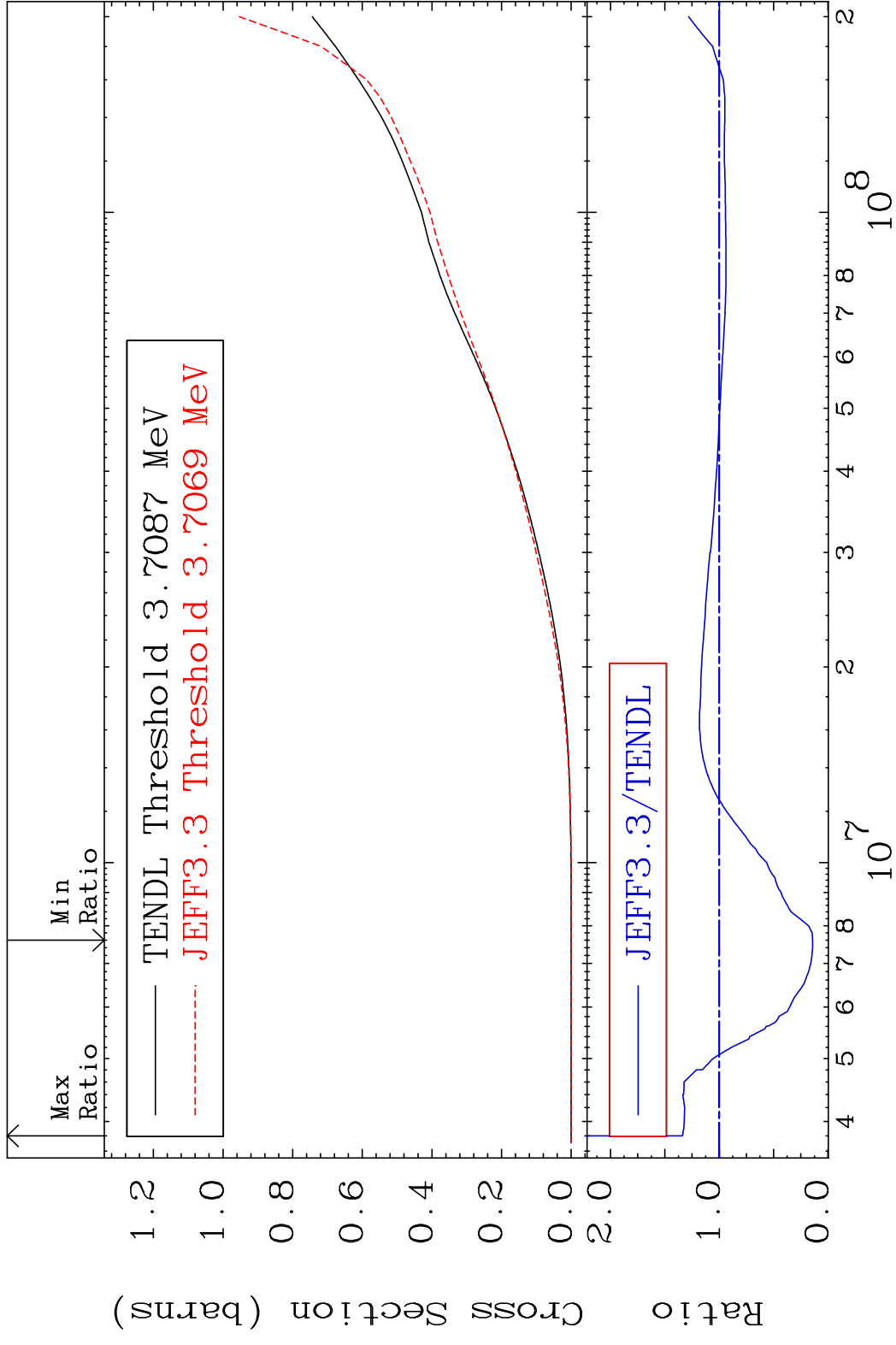


60 Incident Energy (eV) 40-Zr-95

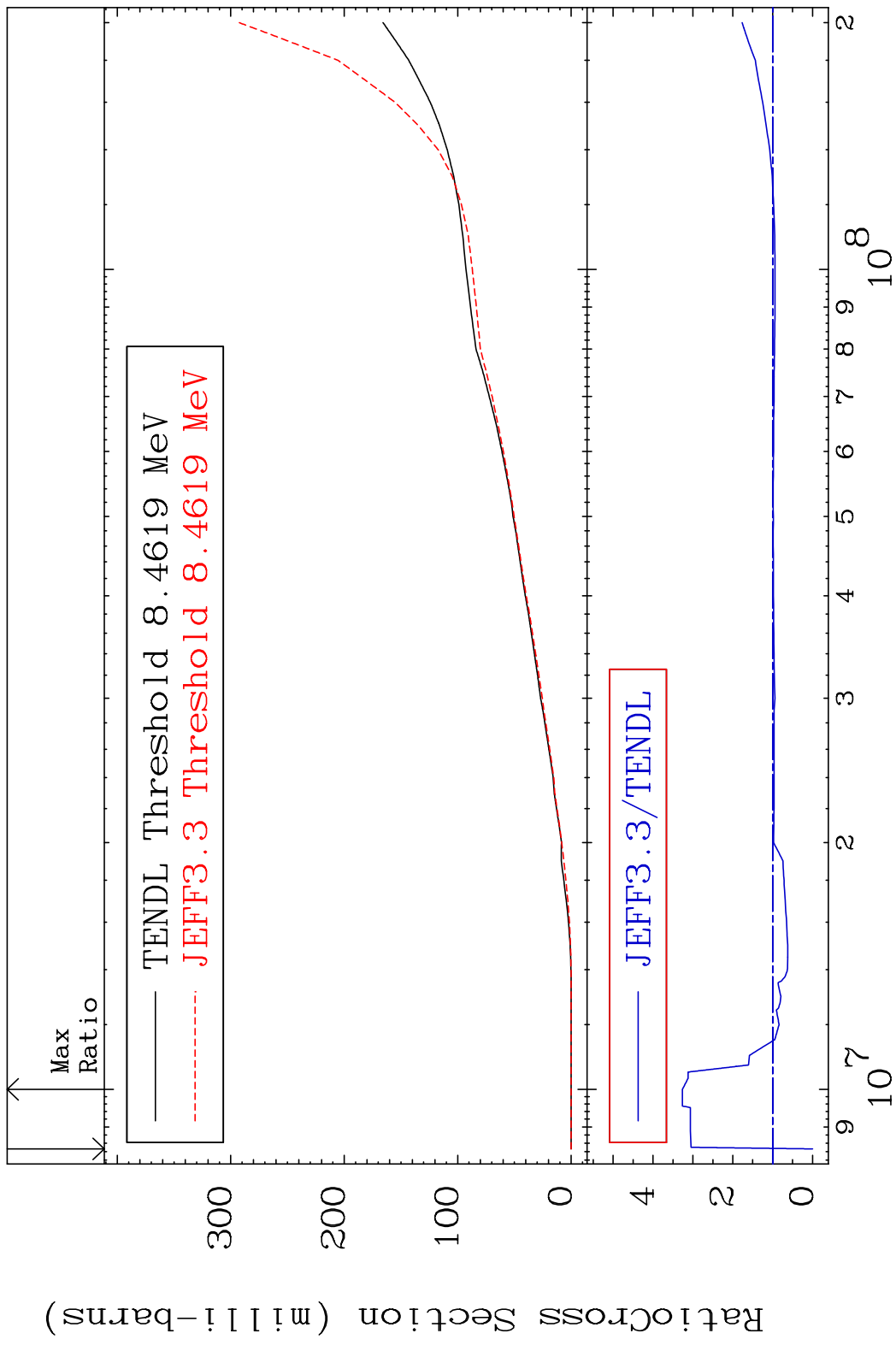
MAT 4040 (n,d) α 40-Zr-95
 Cross Section -100.0 To 1711. %



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

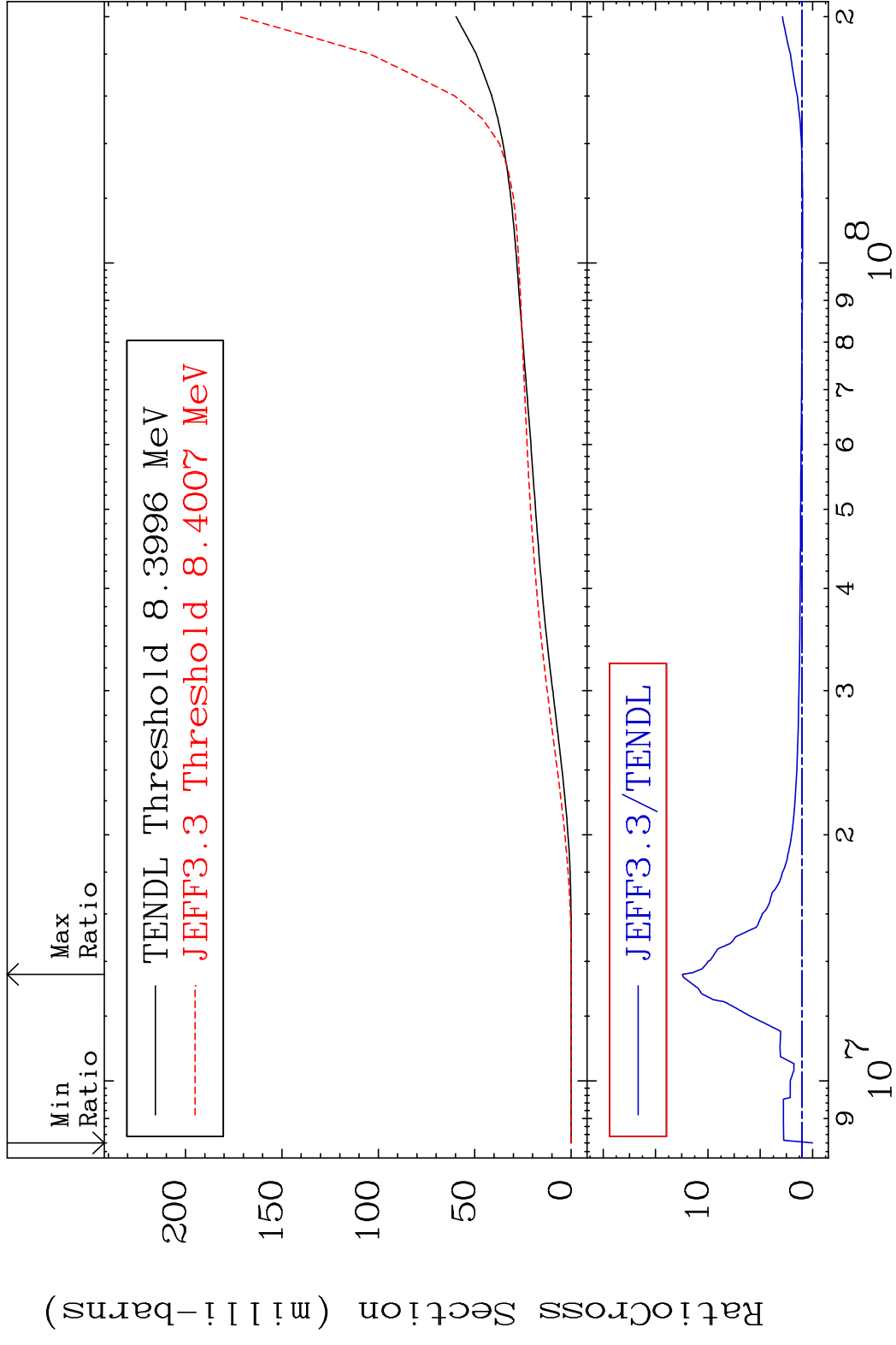


MAT 4040 Deuterium Production 40-Zr-95
 Cross Section -100.0 To 226.5 %



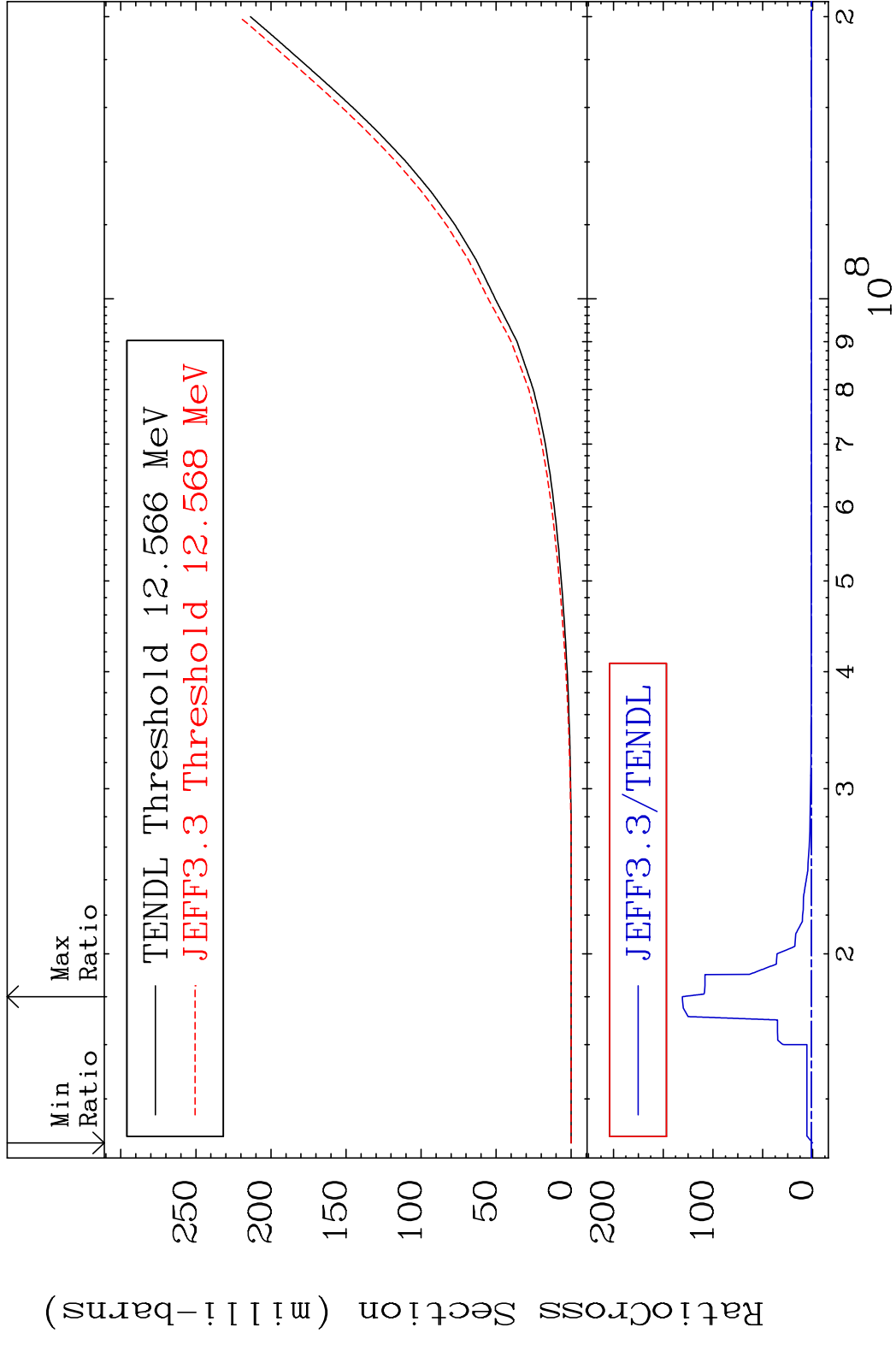
63 40-Zr-95

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

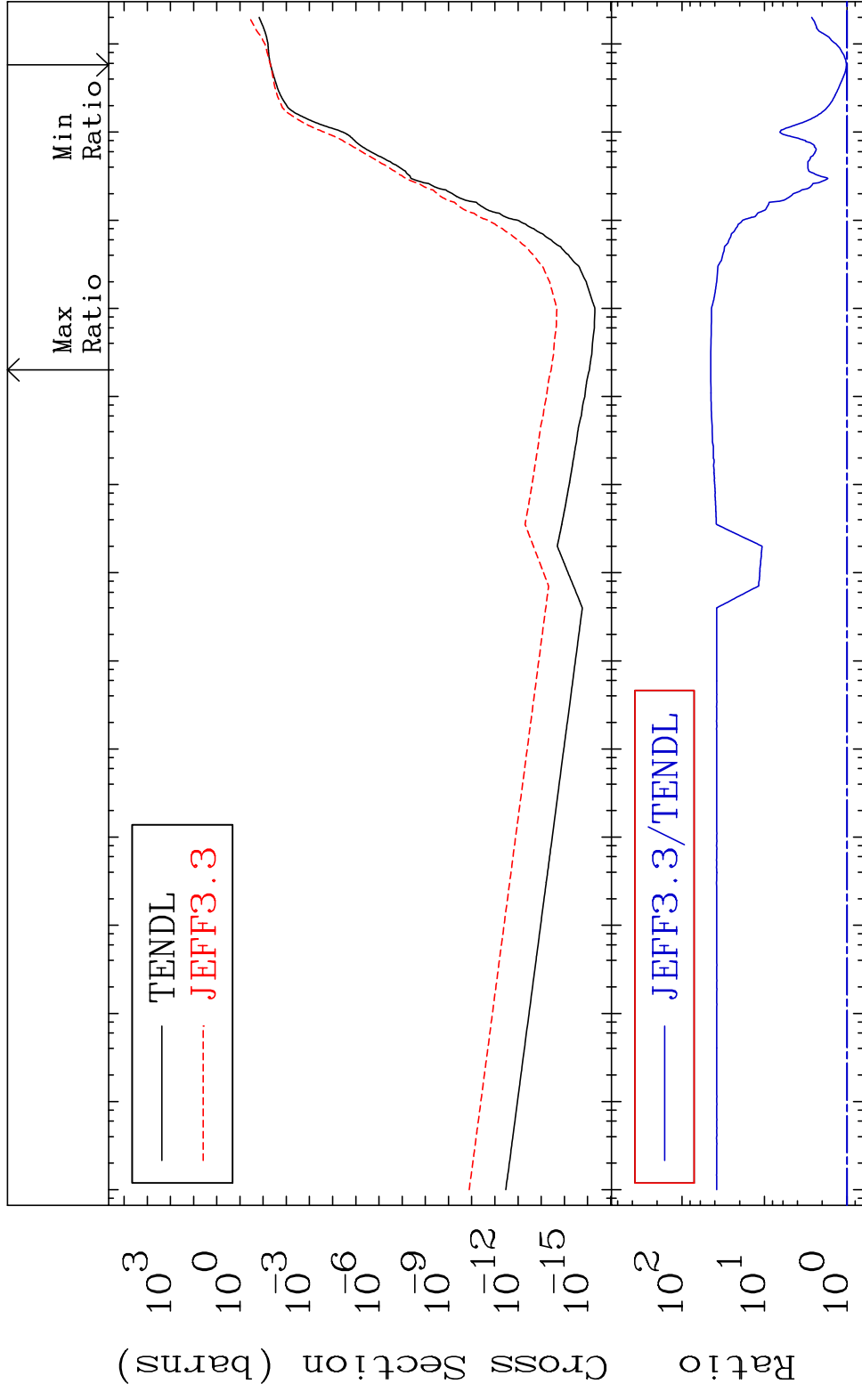


64 40-Zr-95

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

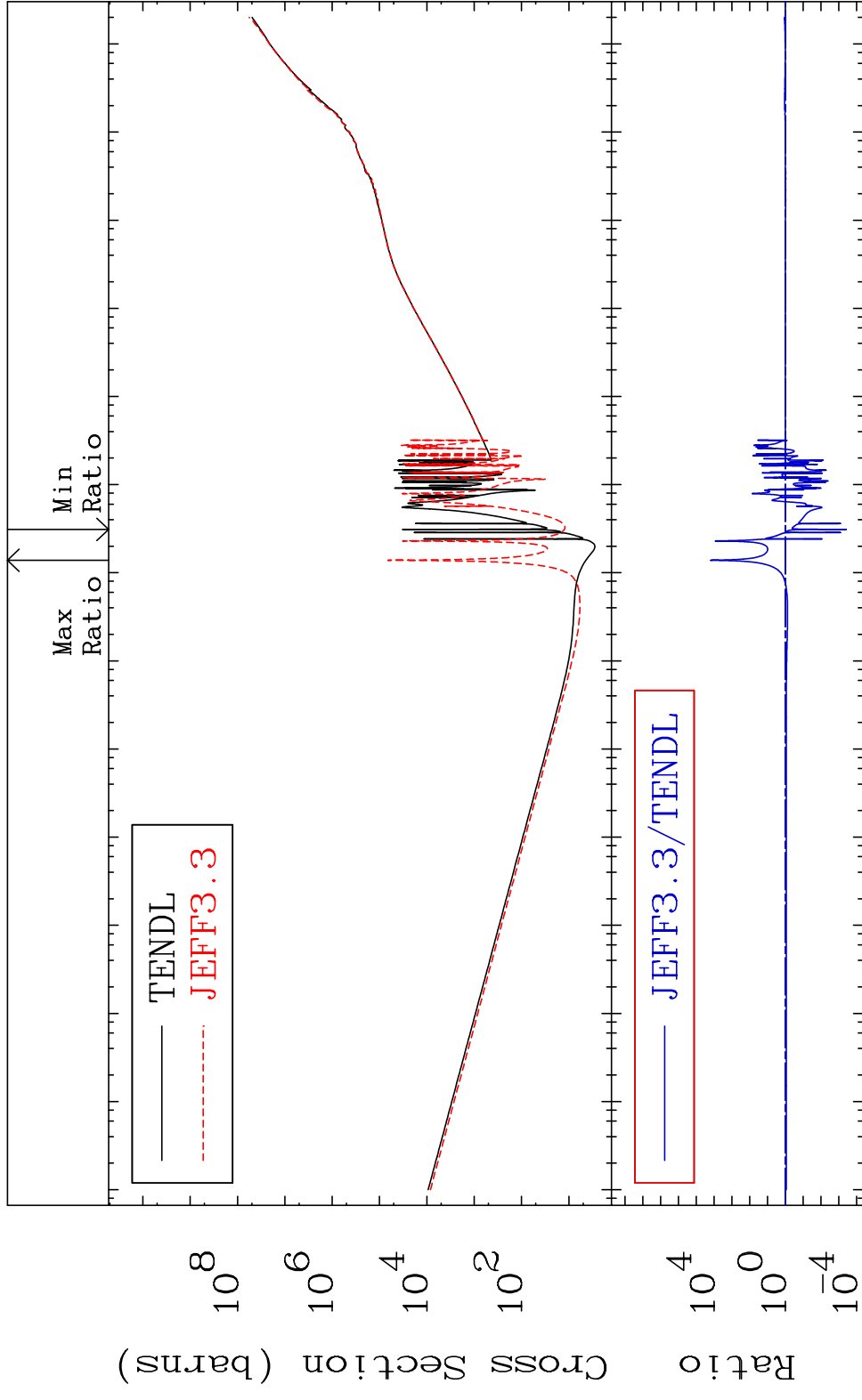


MAT 4040 He-4 Production 40-Zr-95
 Cross Section 2.205 To 4386. %



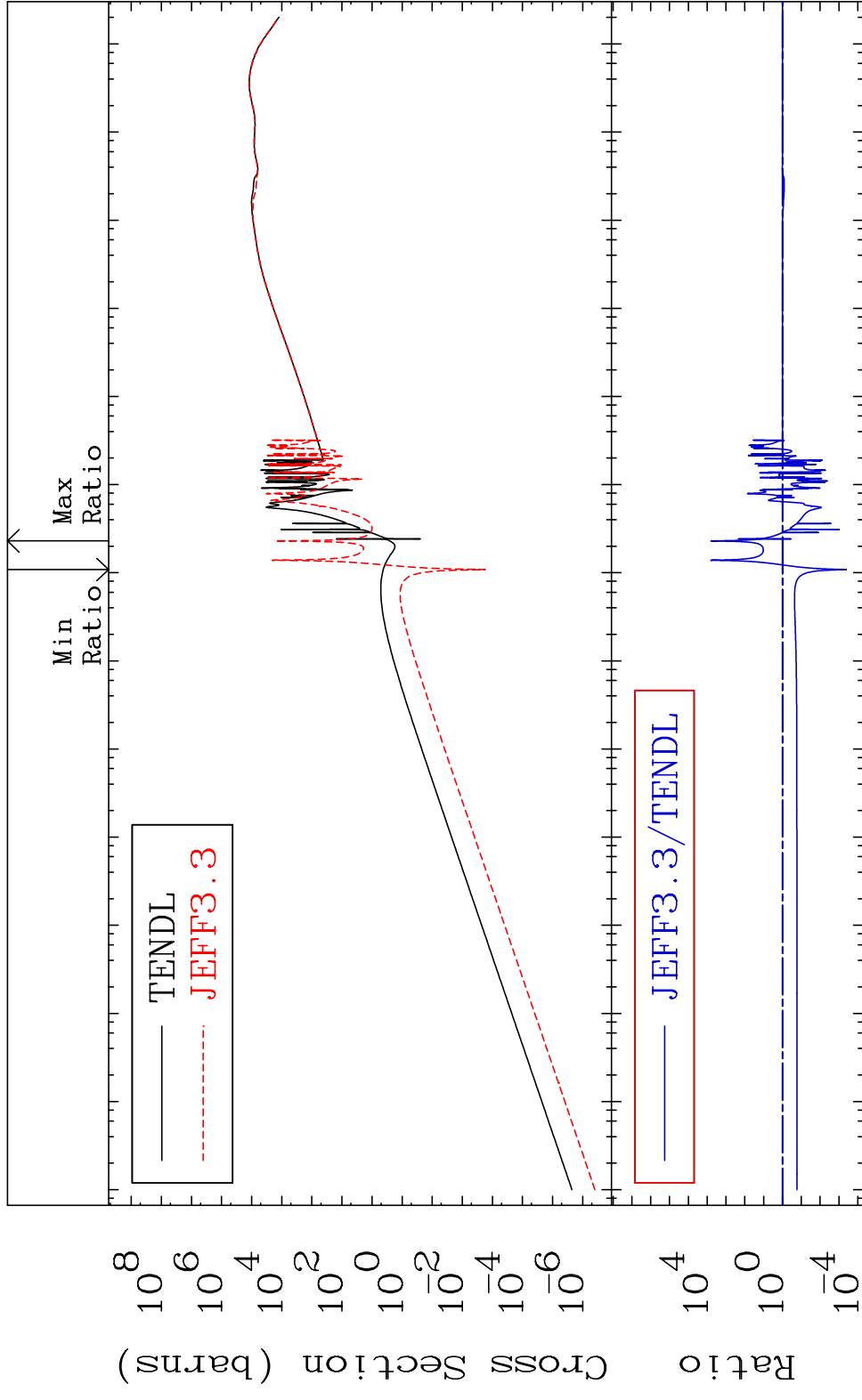
Ratio
 Cross Section (barns)
 Incident Energy (eV) 40-Zr-95

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

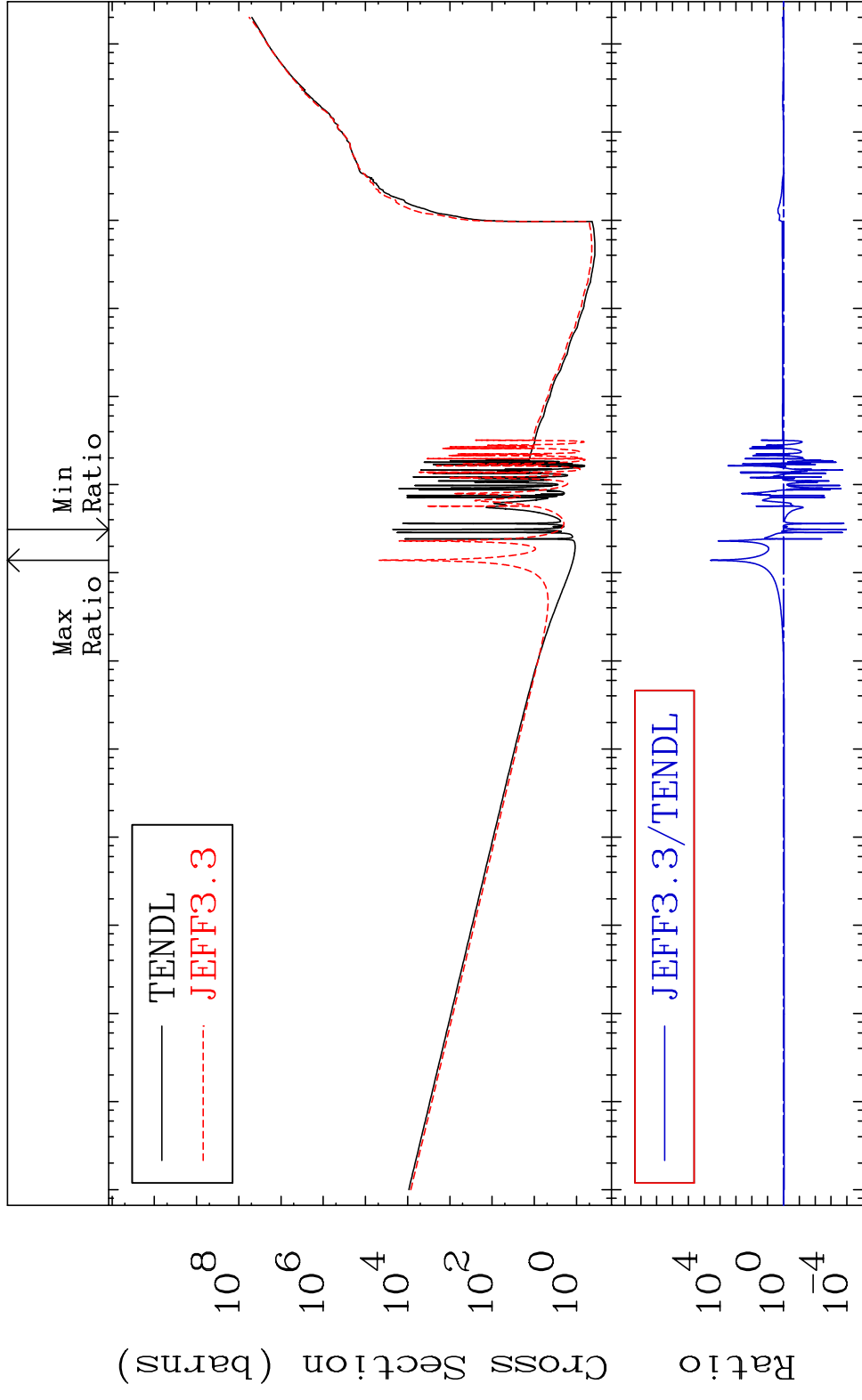


67 Incident Energy (eV) 40-Zr-95

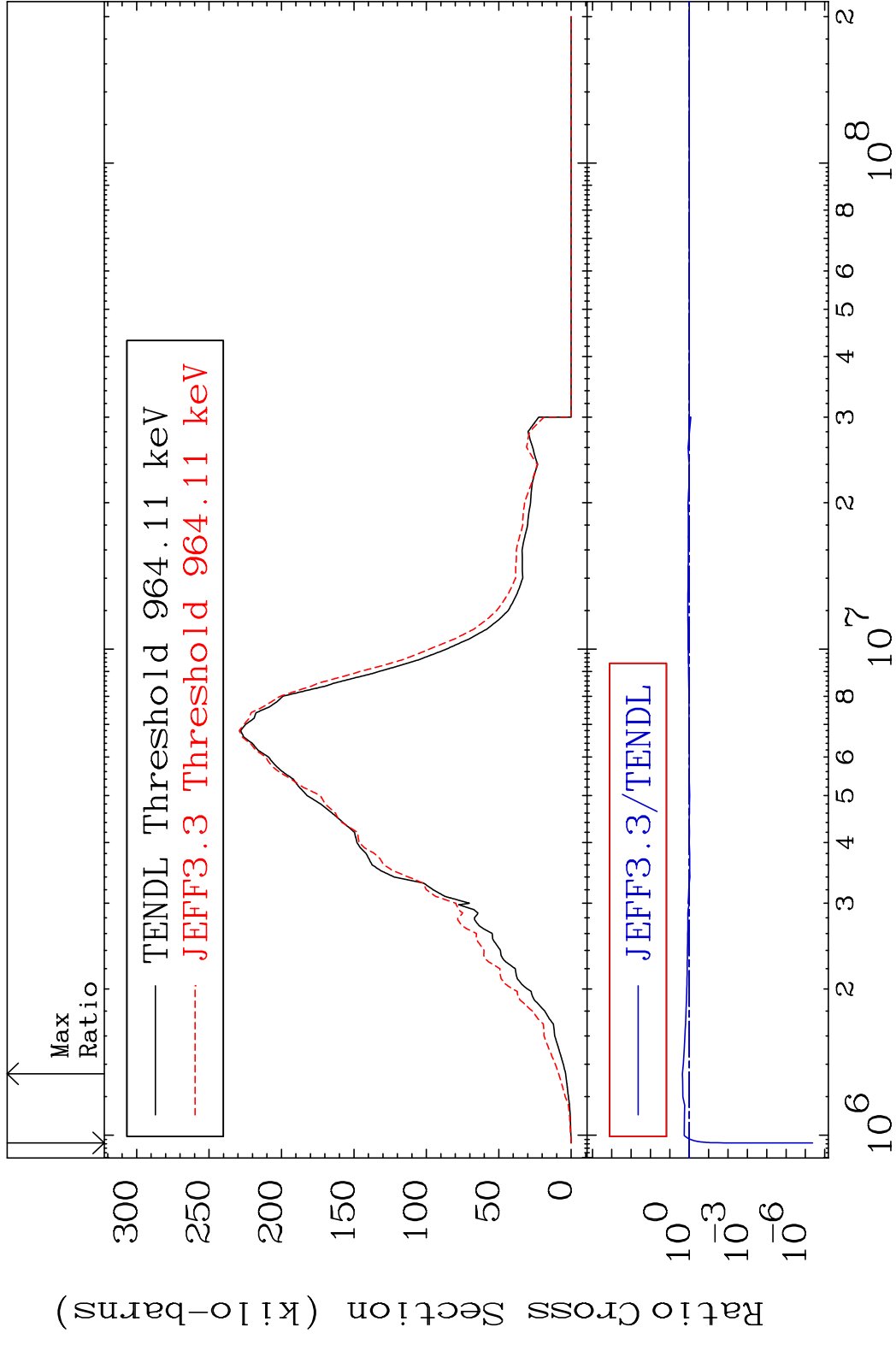
MAT 4040 Kerma elastic Cross Section -99.96 To 9999. % 40-Zr-95



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

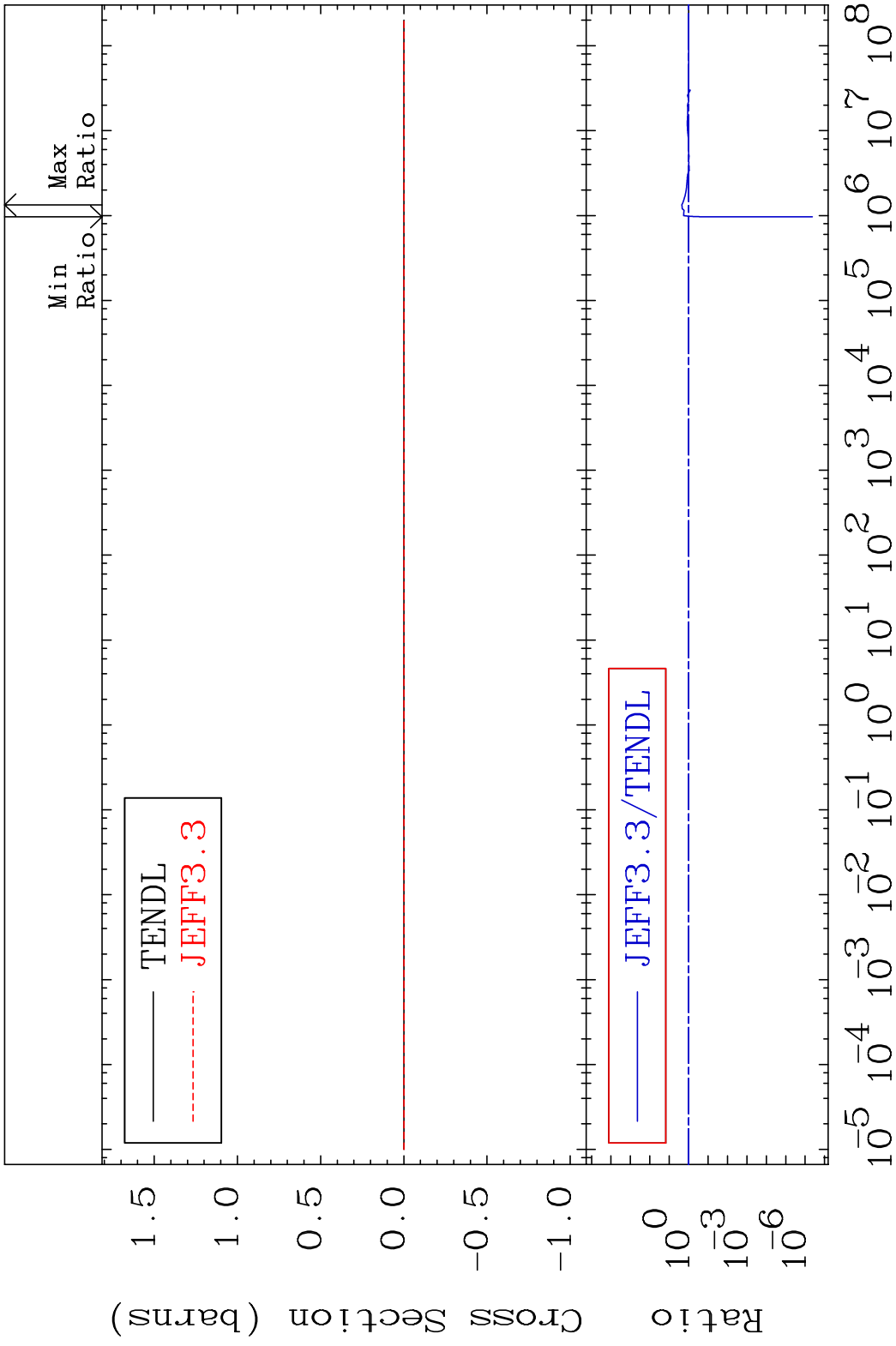


MAT 4040 Kerma inelastic (mt51-91) 40-Zr-95
 Cross Section -100.0 To 126.8 %



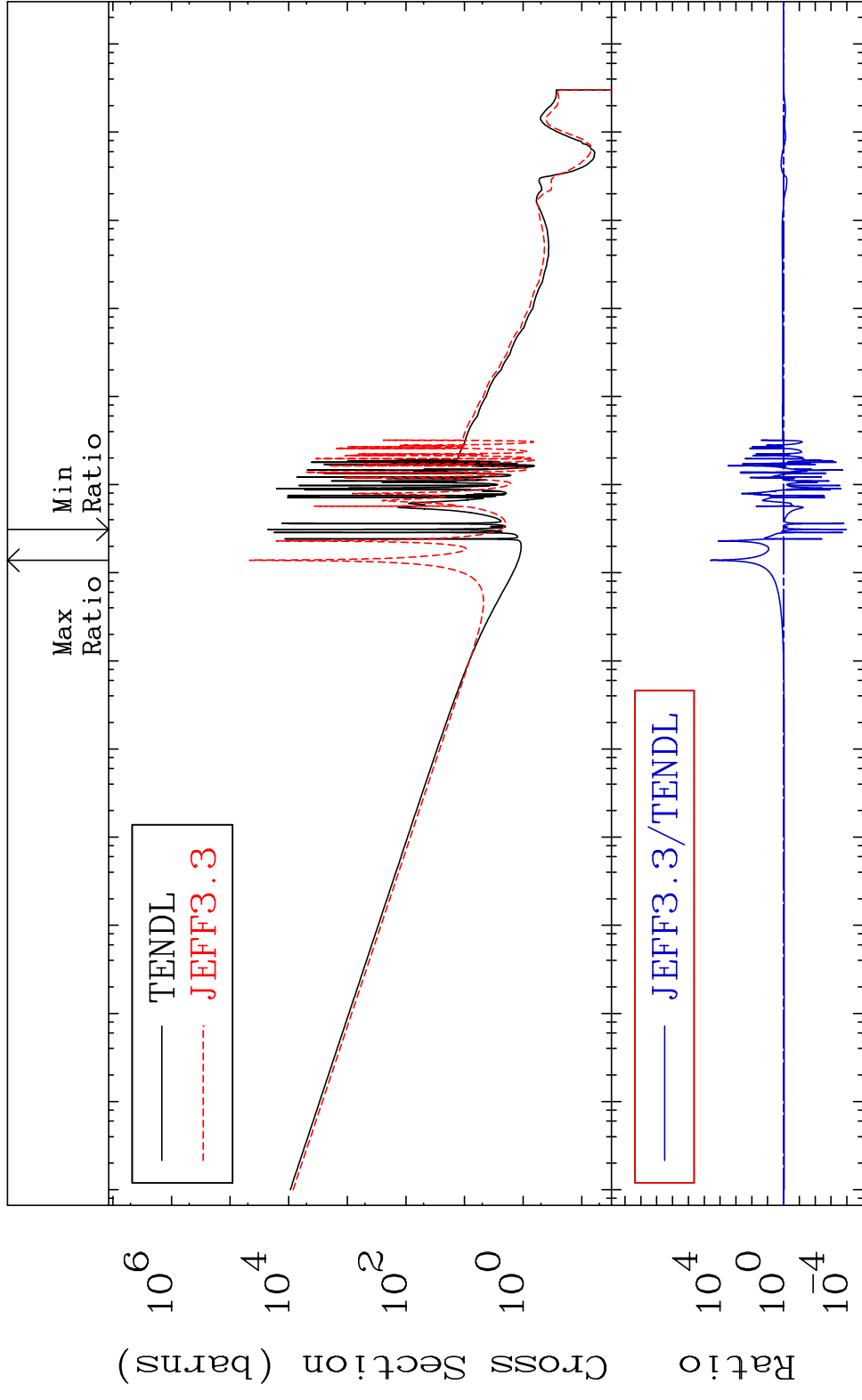
70 Incident Energy (eV) 40-Zr-95

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. %

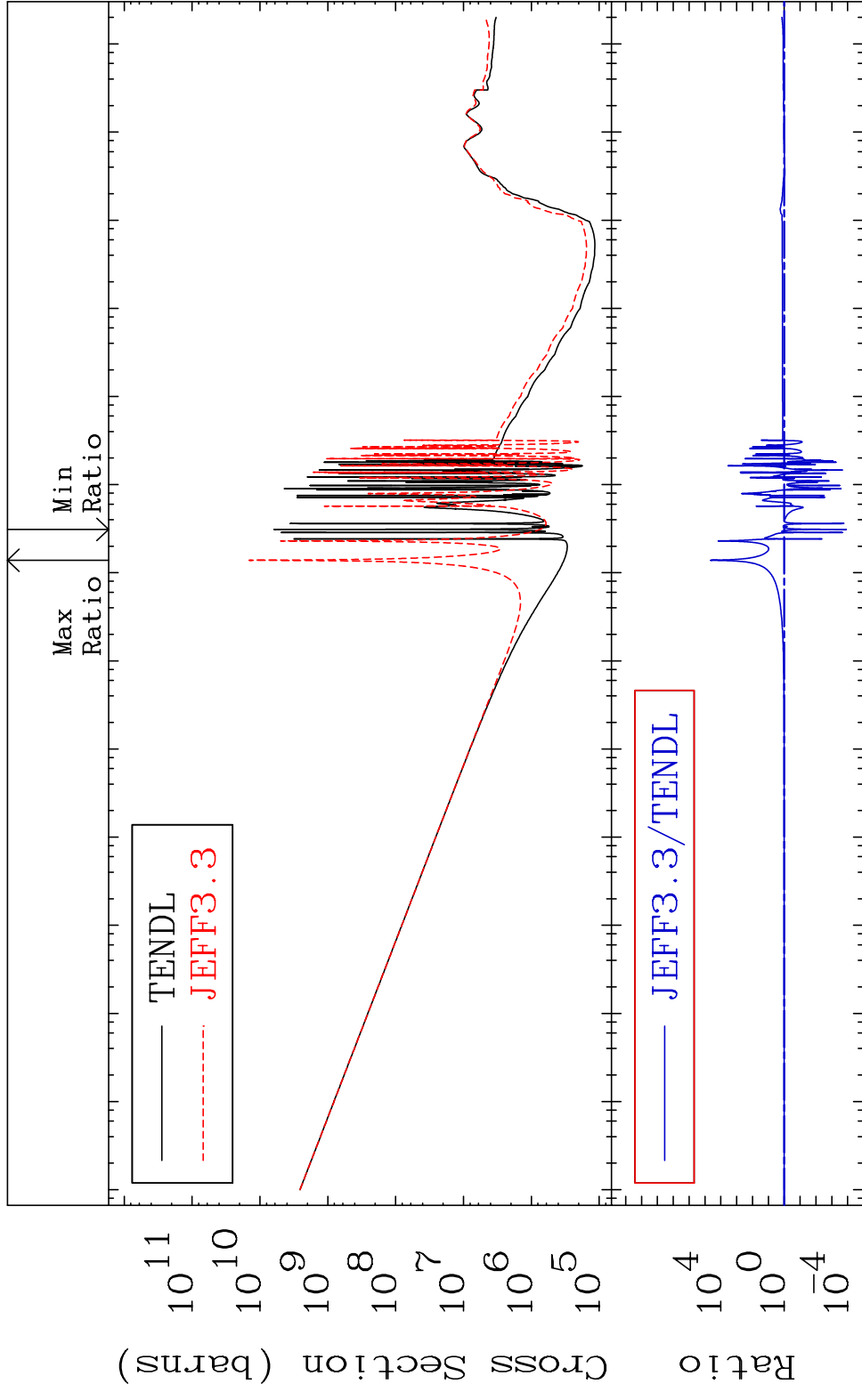


72

Incident Energy (eV)

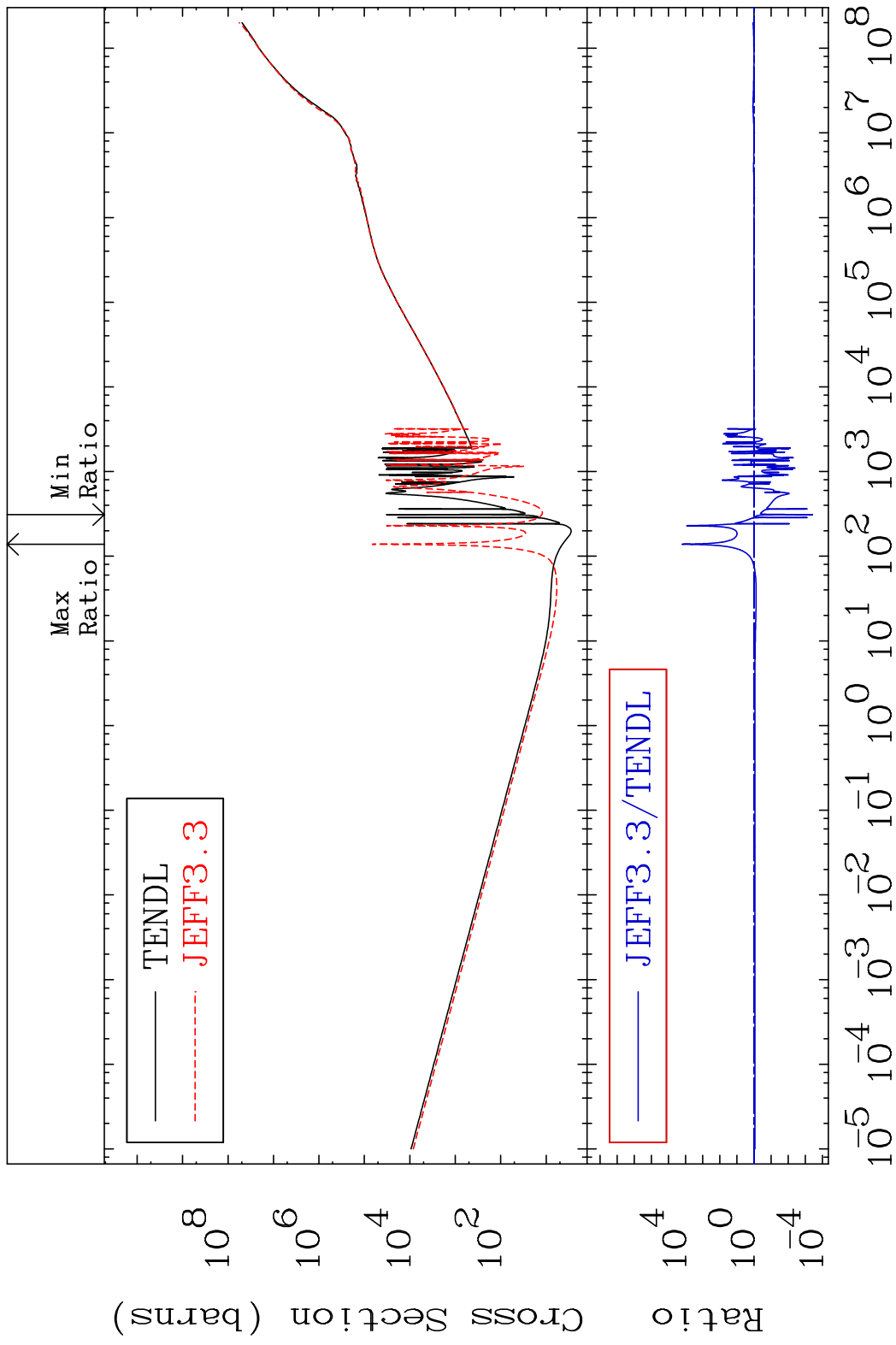
40-Zr-95

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



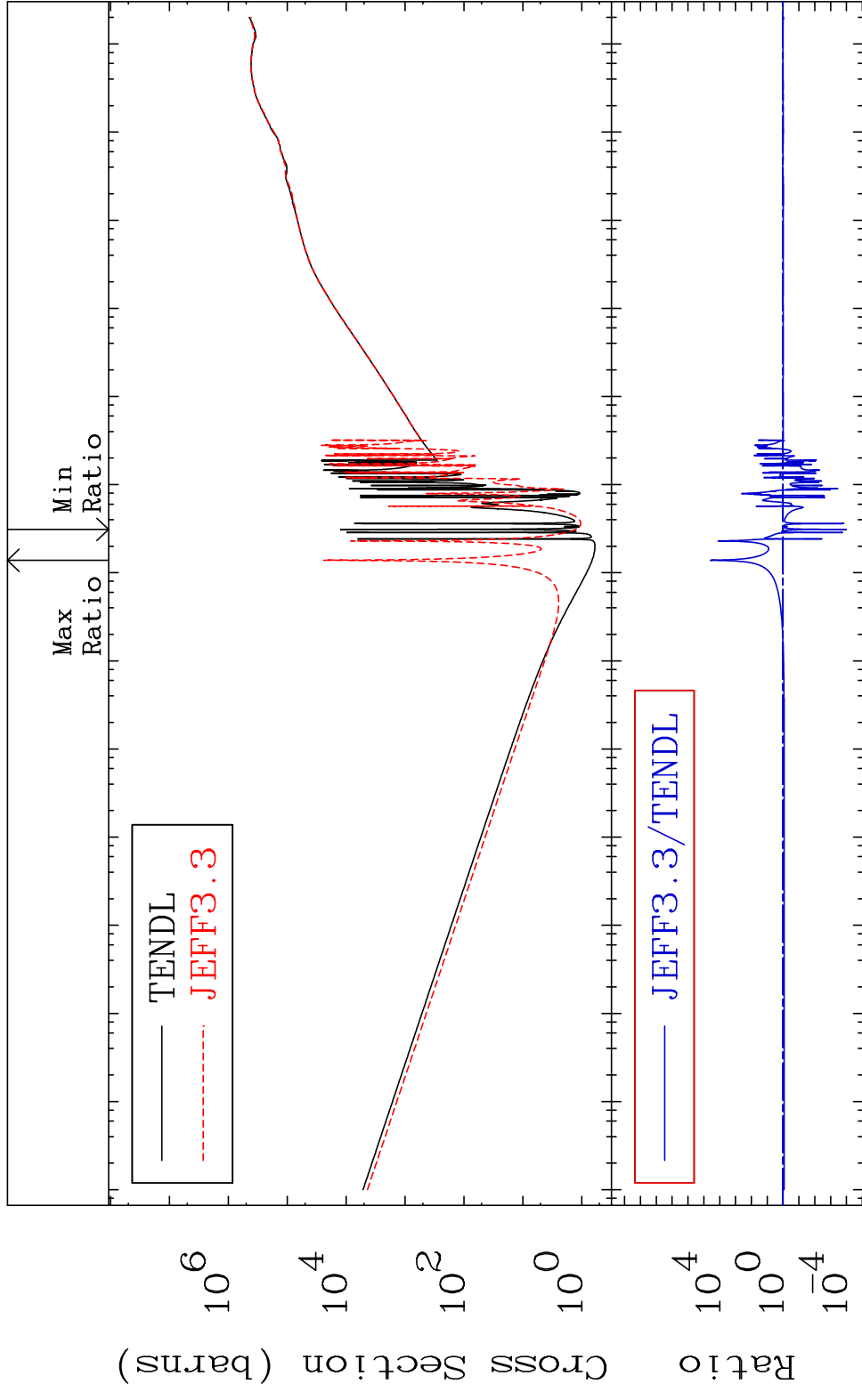
73 Incident Energy (eV) 40-Zr-95

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



74 Incident Energy (eV) 40-Zr-95

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



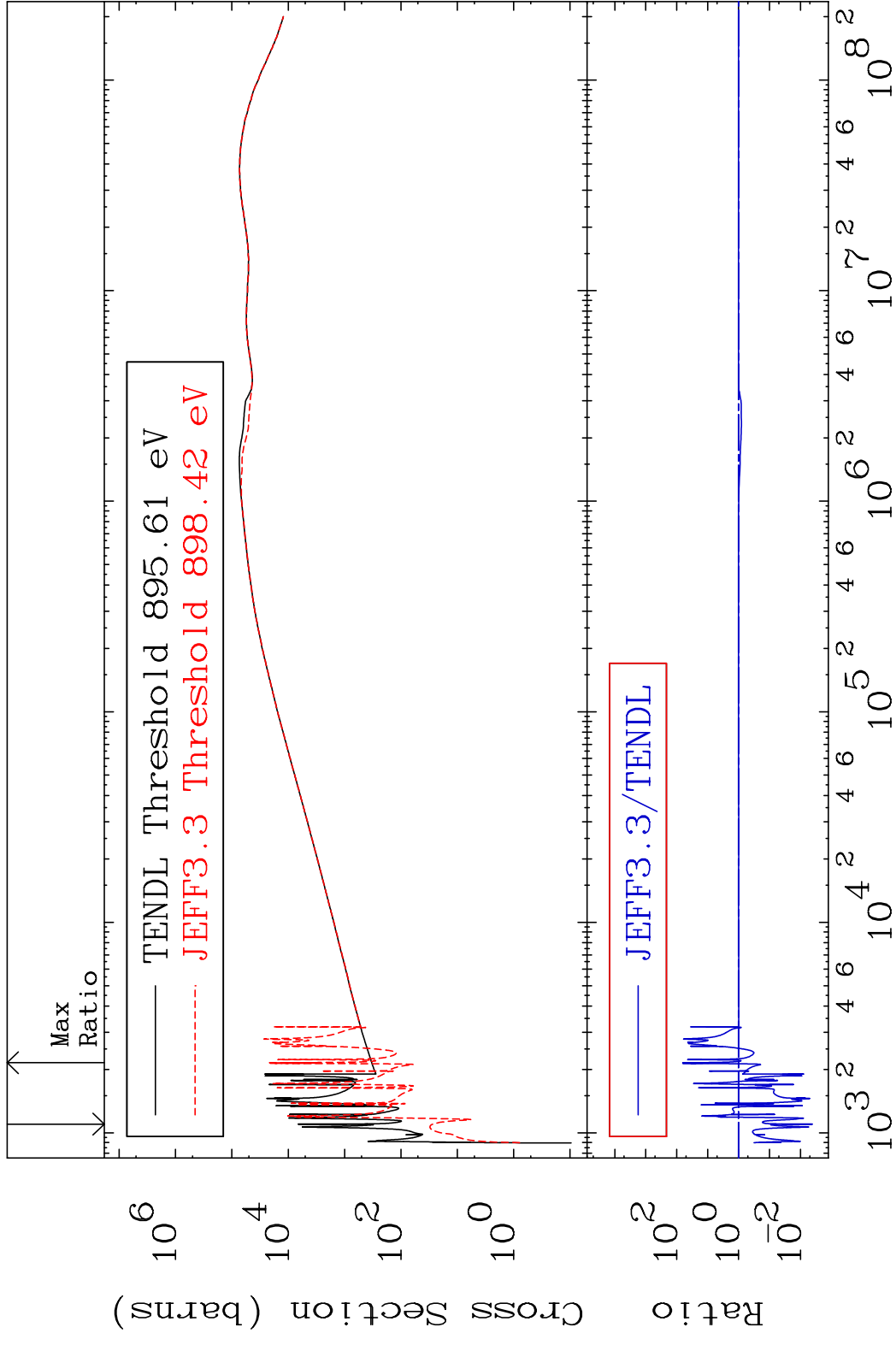
75 Incident Energy (eV) 40-Zr-95

MAT 4040

Dpa elastic (mt2)

40-Zr-95

Cross Section -99.59 To 6456. %

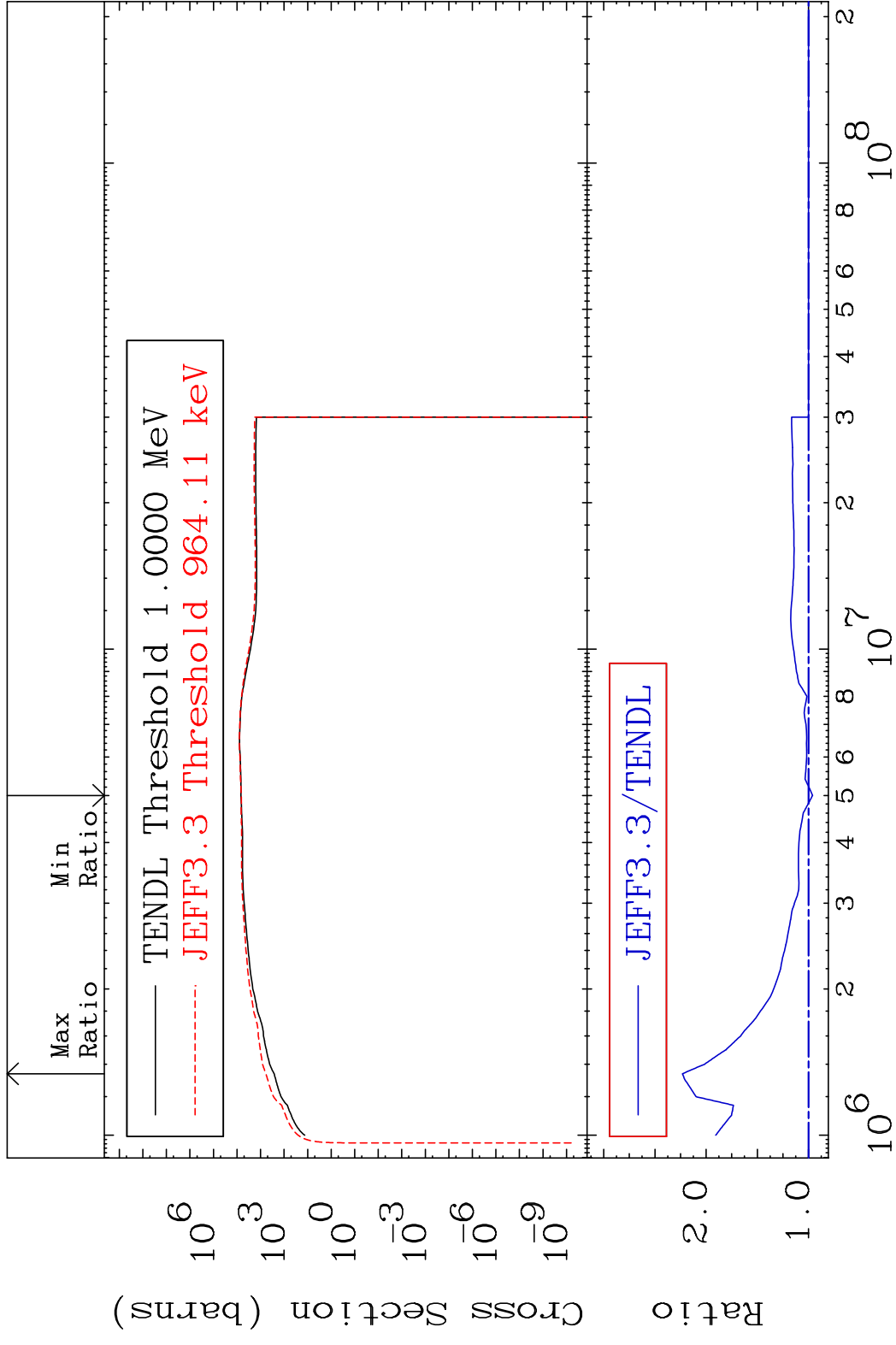


76

Incident Energy (eV)

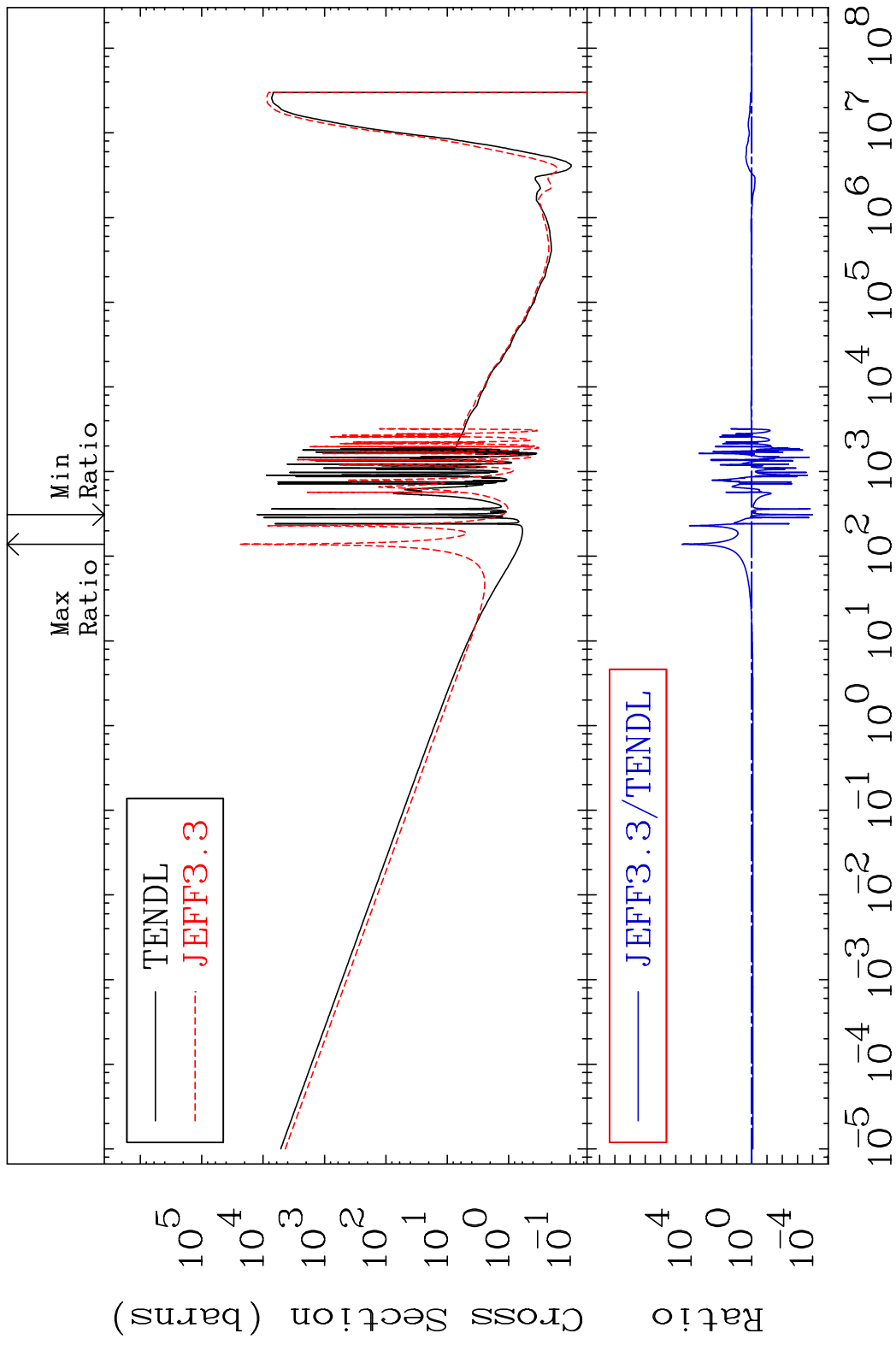
40-Zr-95

MAT 4040 Dpa inelastic (mt51-91) 40-Zr-95
 Cross Section -3.947 To 123.2 %



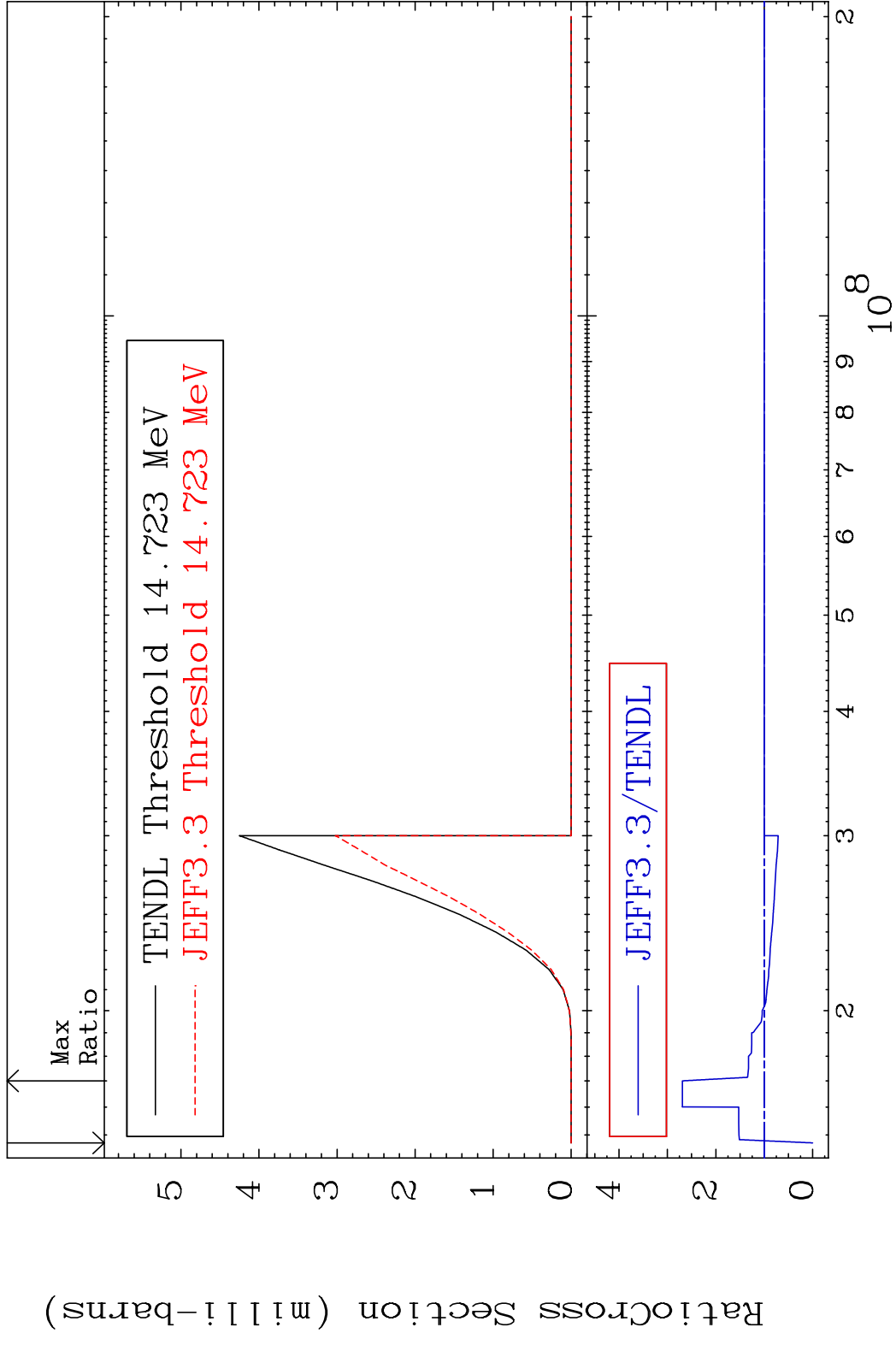
77 Incident Energy (eV) 40-Zr-95

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

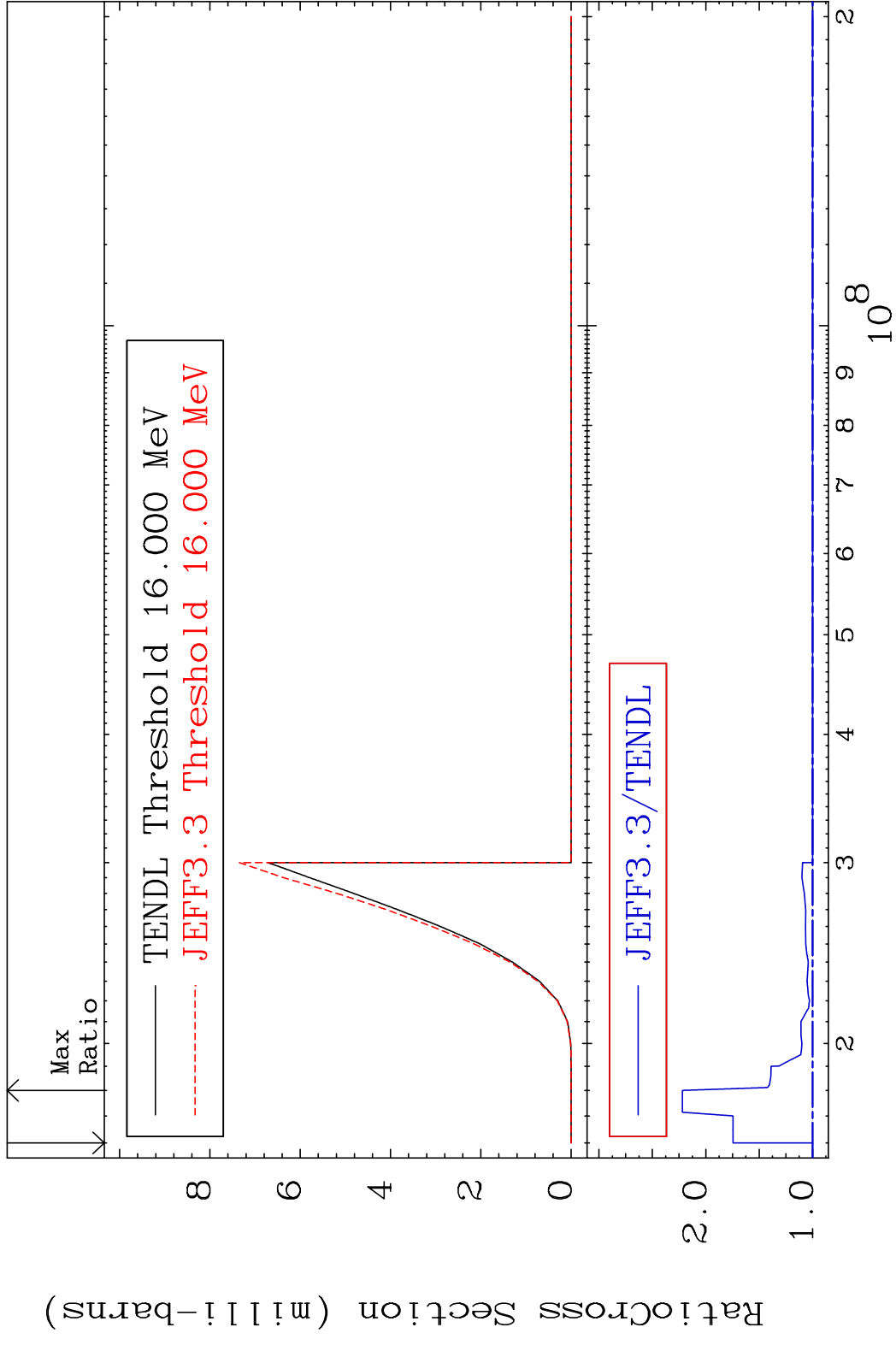


78 Incident Energy (eV) 40-Zr-95

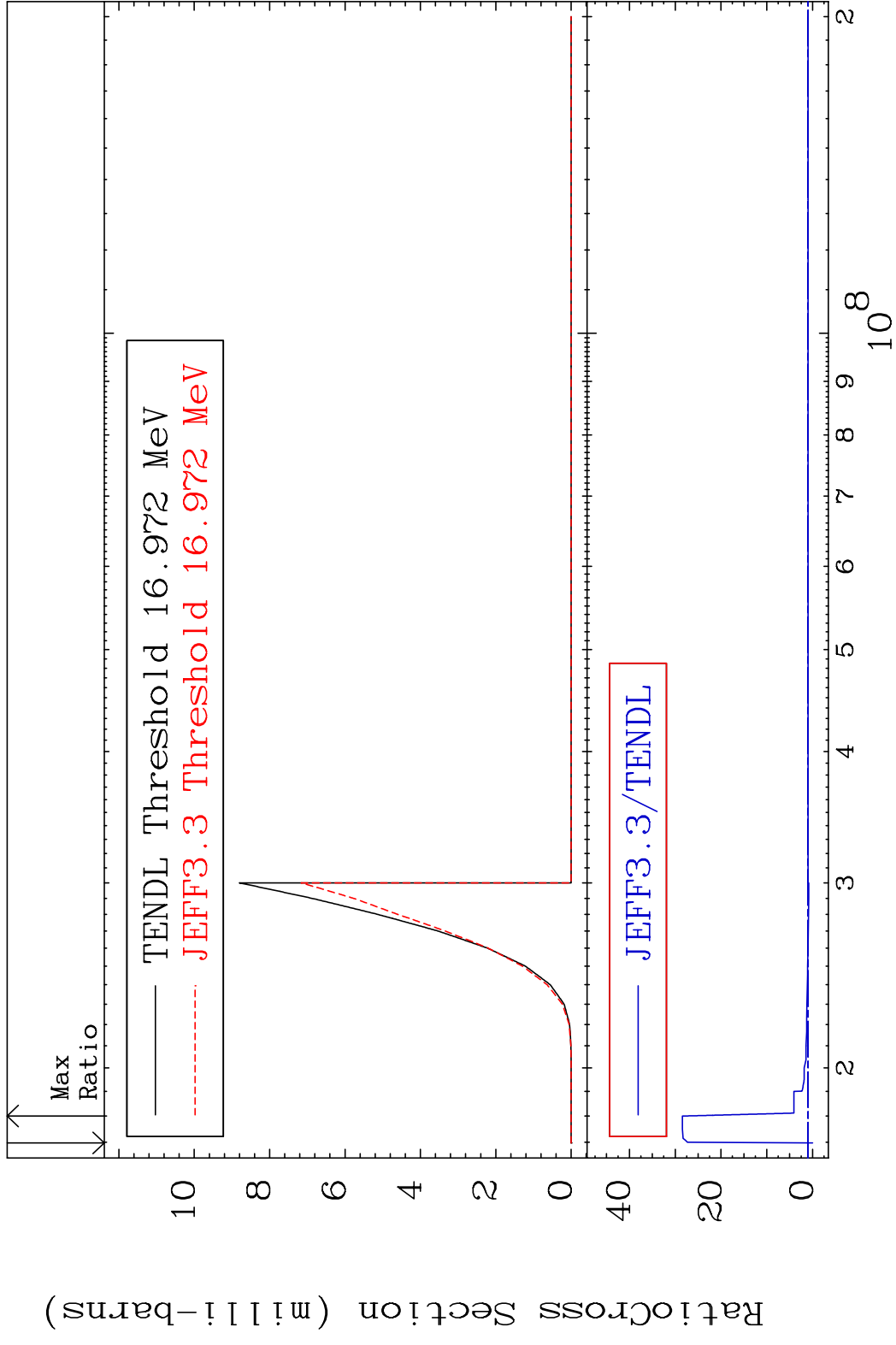
MAT 4040 (n, n') d:39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 180.0 dth 169.1 %



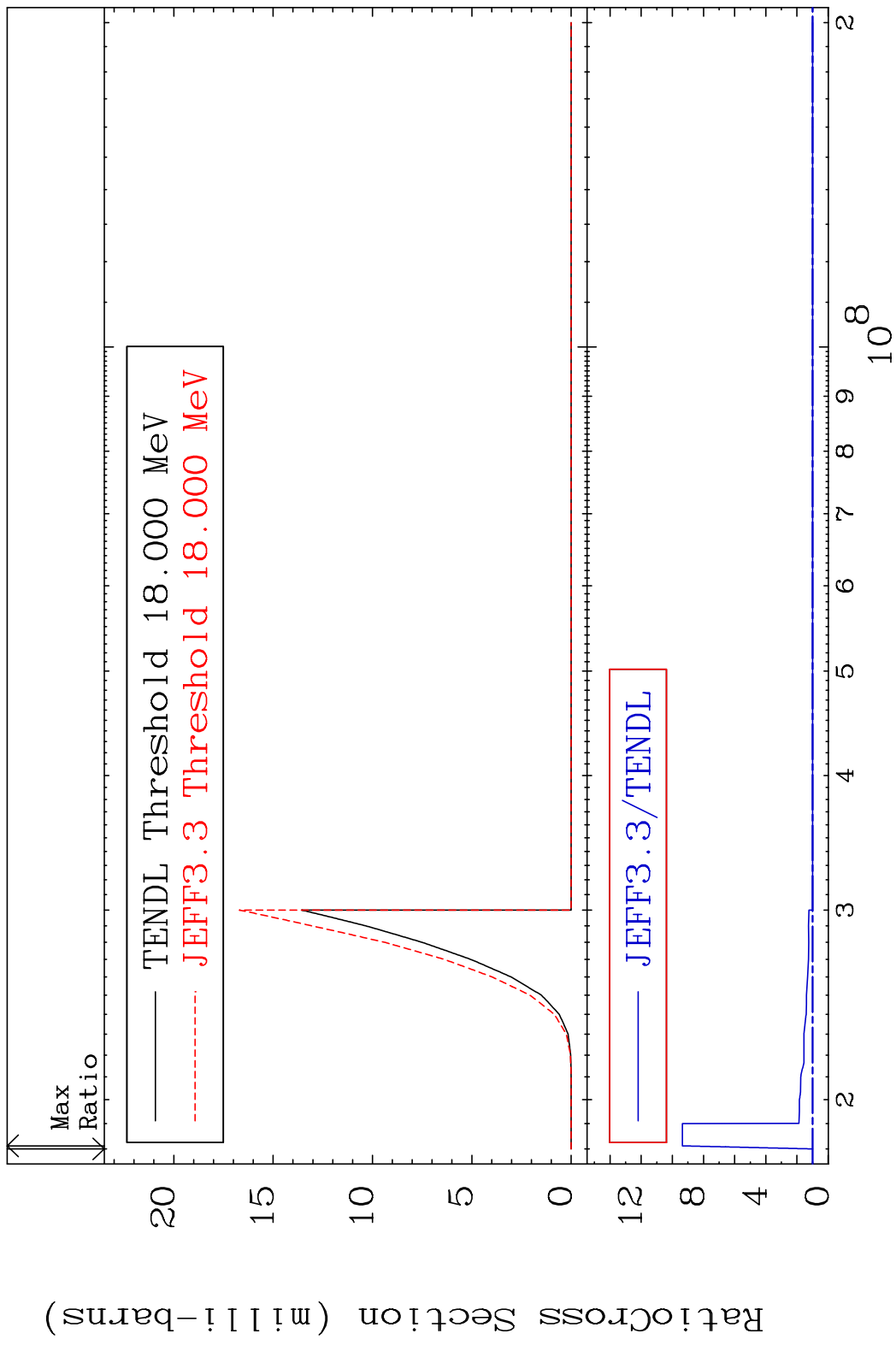
MAT 4040 (n, n') d:39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 121.9 %



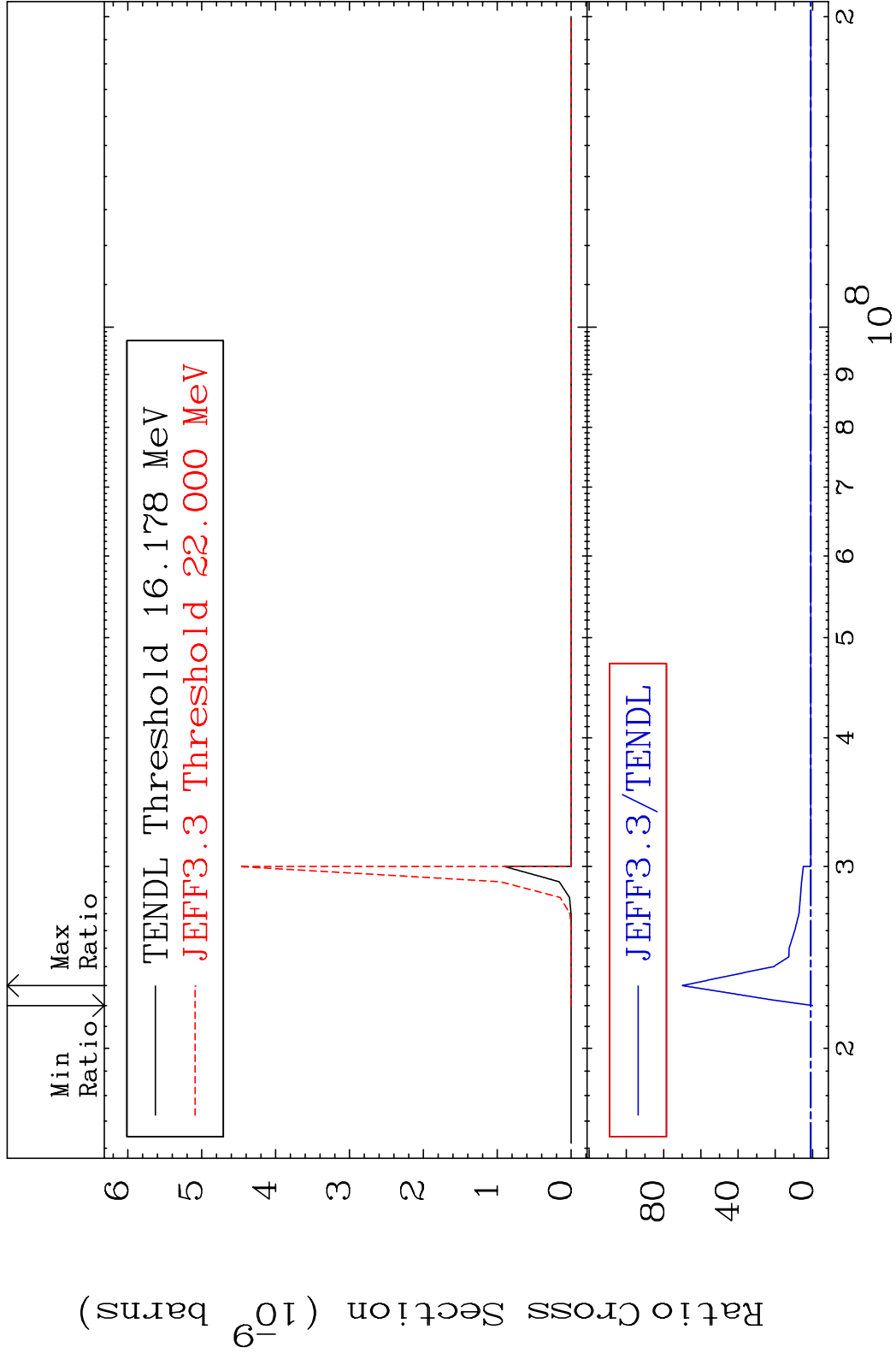
MAT 4040 (n,2n) p:39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 180.01 dno 2744. %



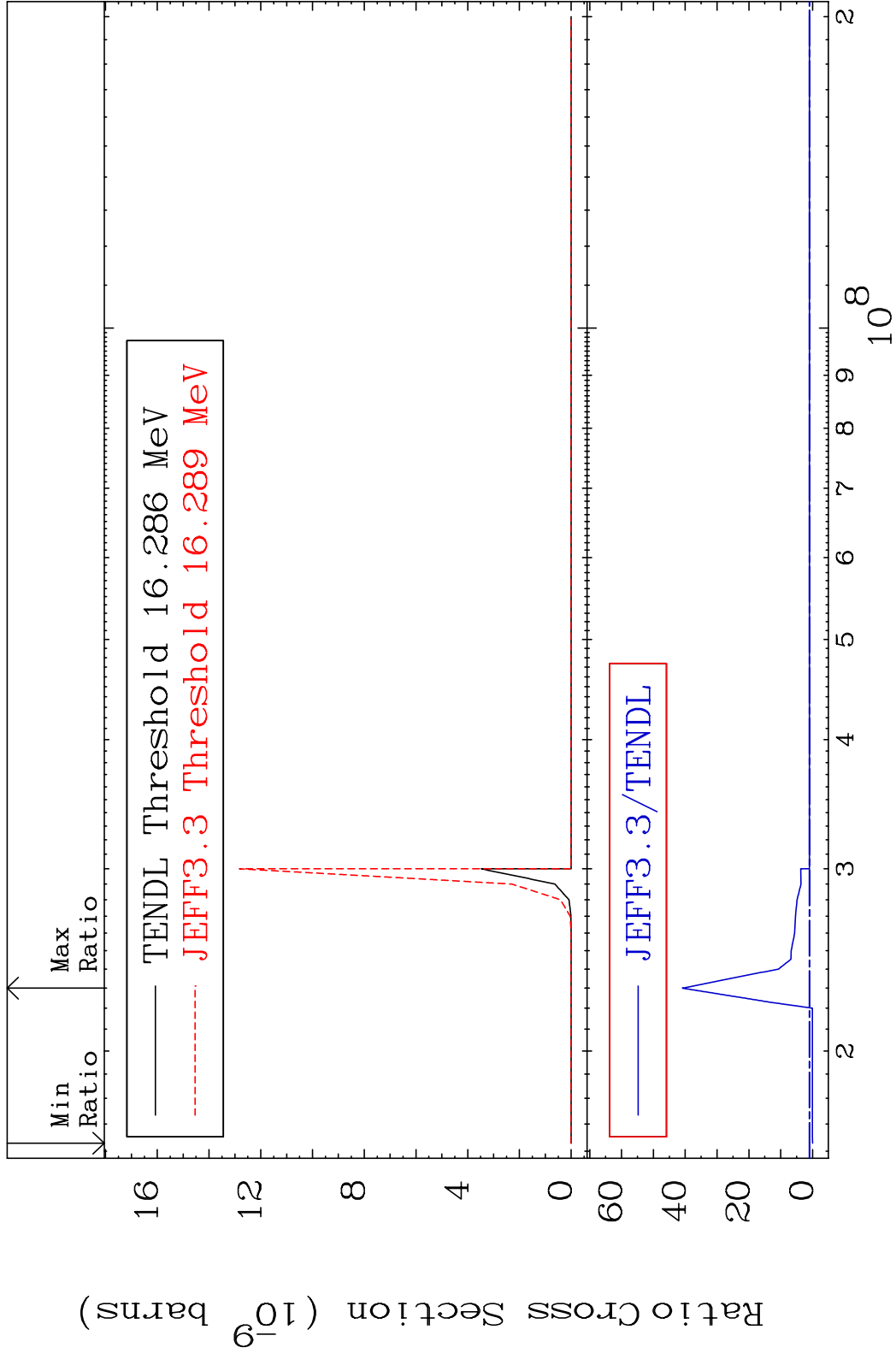
MAT 4040 (n,2n) p:39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 835.8 %



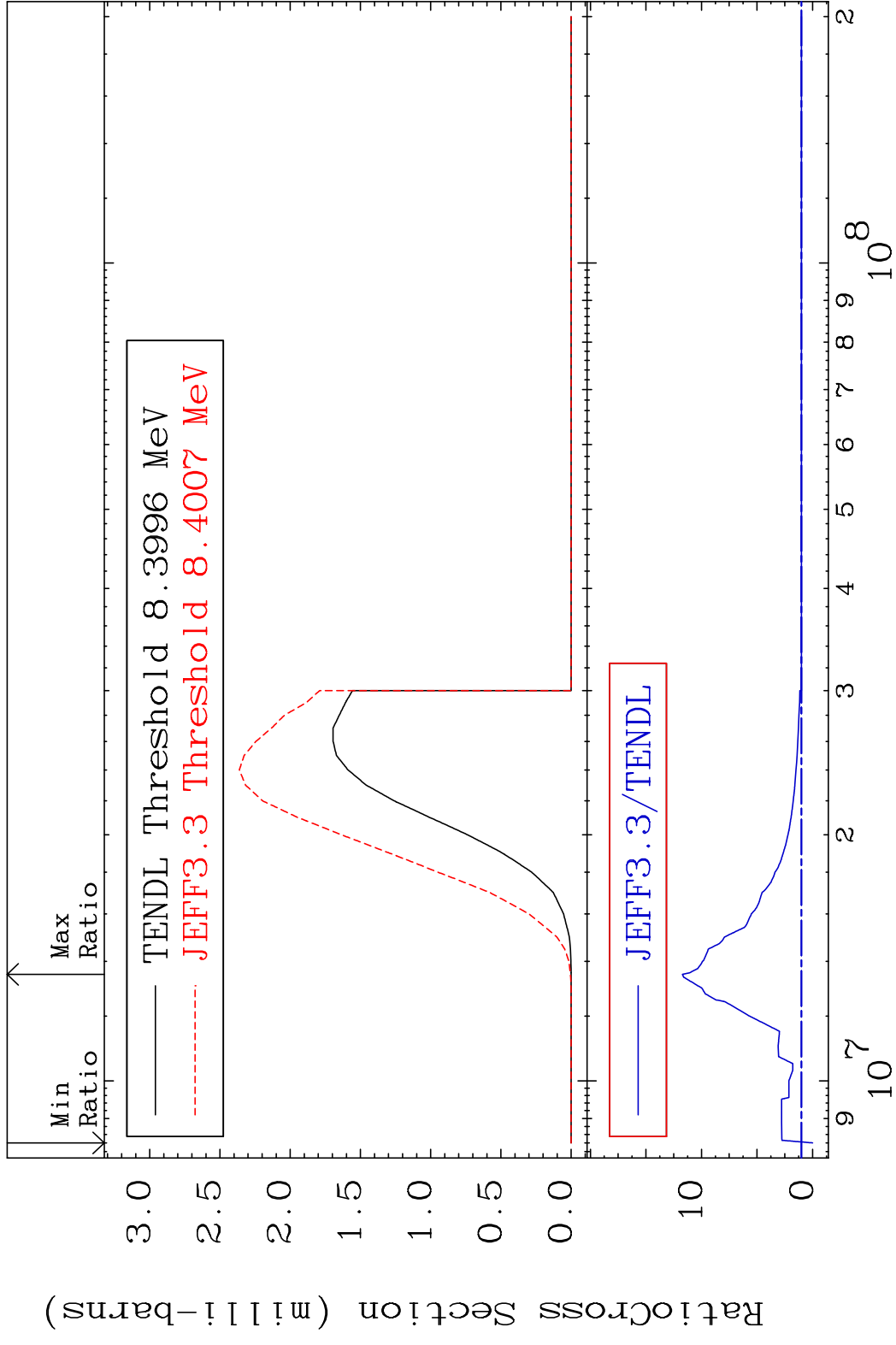
MAT 4040 (n, n') p α :37-Rb-90g 40-Zr-95
 Radionuclide Production Cross Section to 6892. %



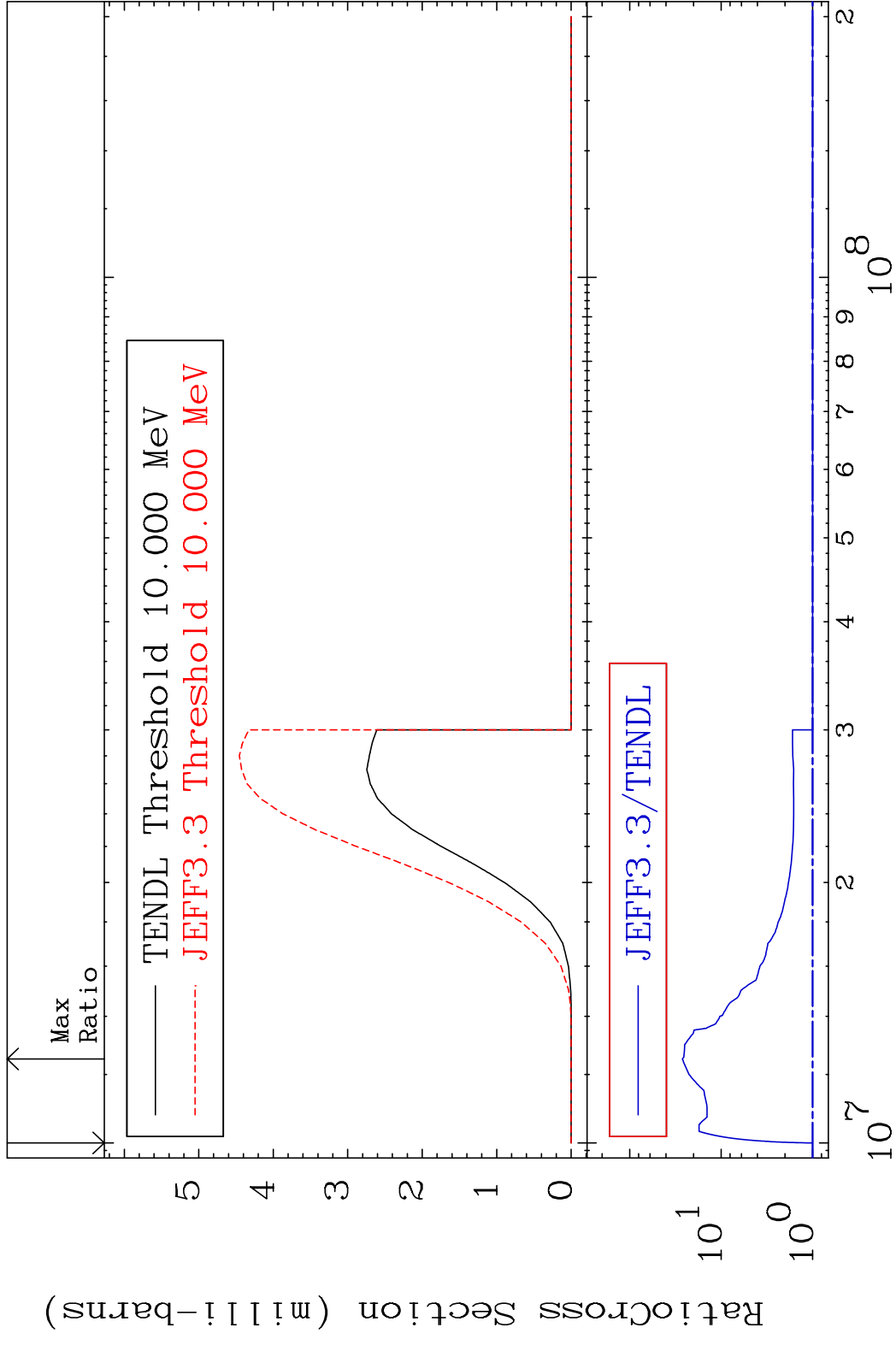
MAT 4040 (n, n') p α:37-Rb-90m1 40-Zr-95
 Radionuclide Production Cross Section 1800 d to 3989. %



MAT 4040 (n, t):39-Y -93g 40-Zr-95
 Radionuclide Production Cross Section 100.00 dth 1072. %

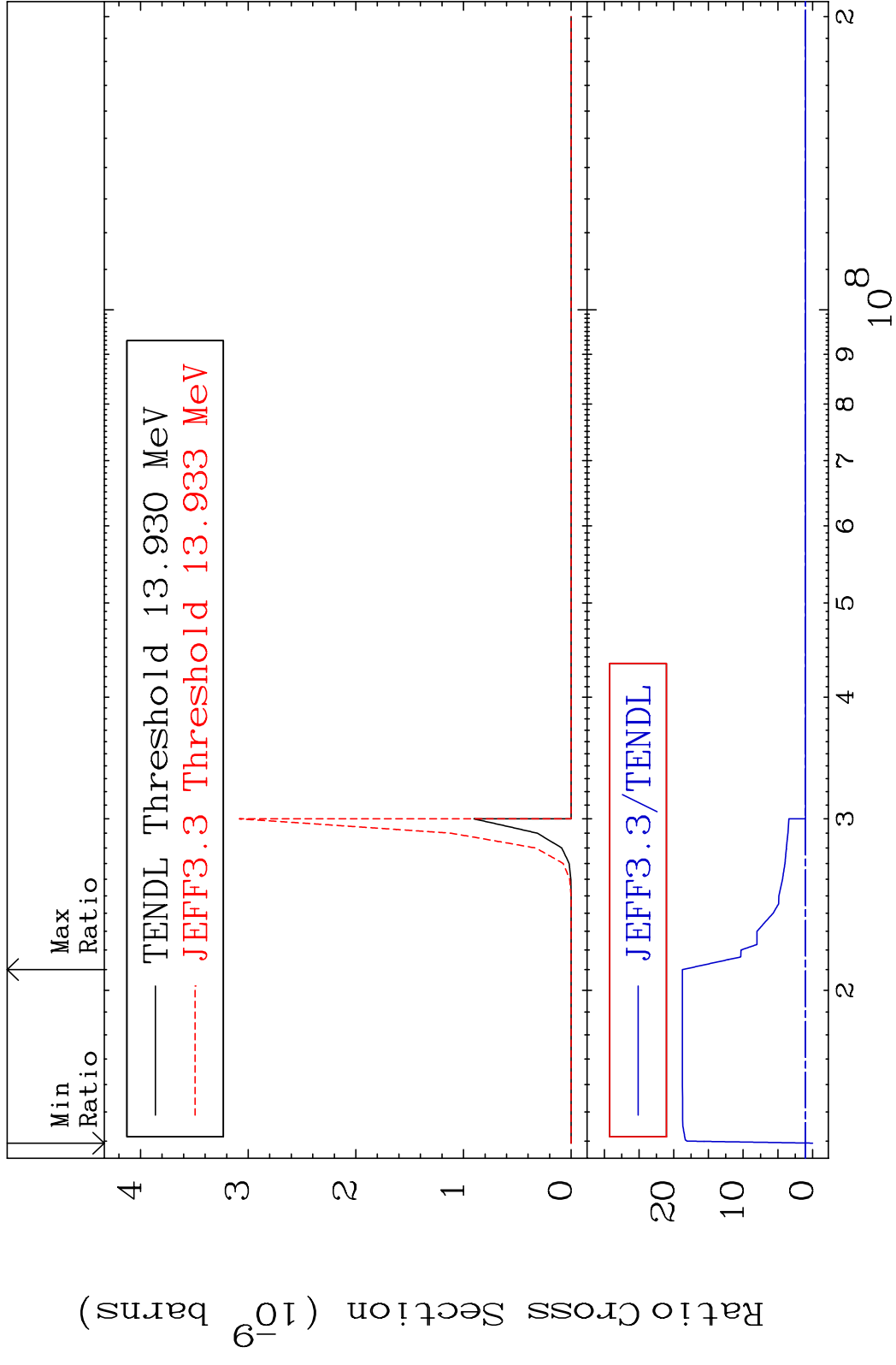


MAT 4040 (n,t):39-Y -93m2 40-Zr-95
 Radionuclide Production Cross Section 2555. %



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 1800.0 dth 1694. %

