

Program Complot
(Version 2021-1)

by

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U.S.A.

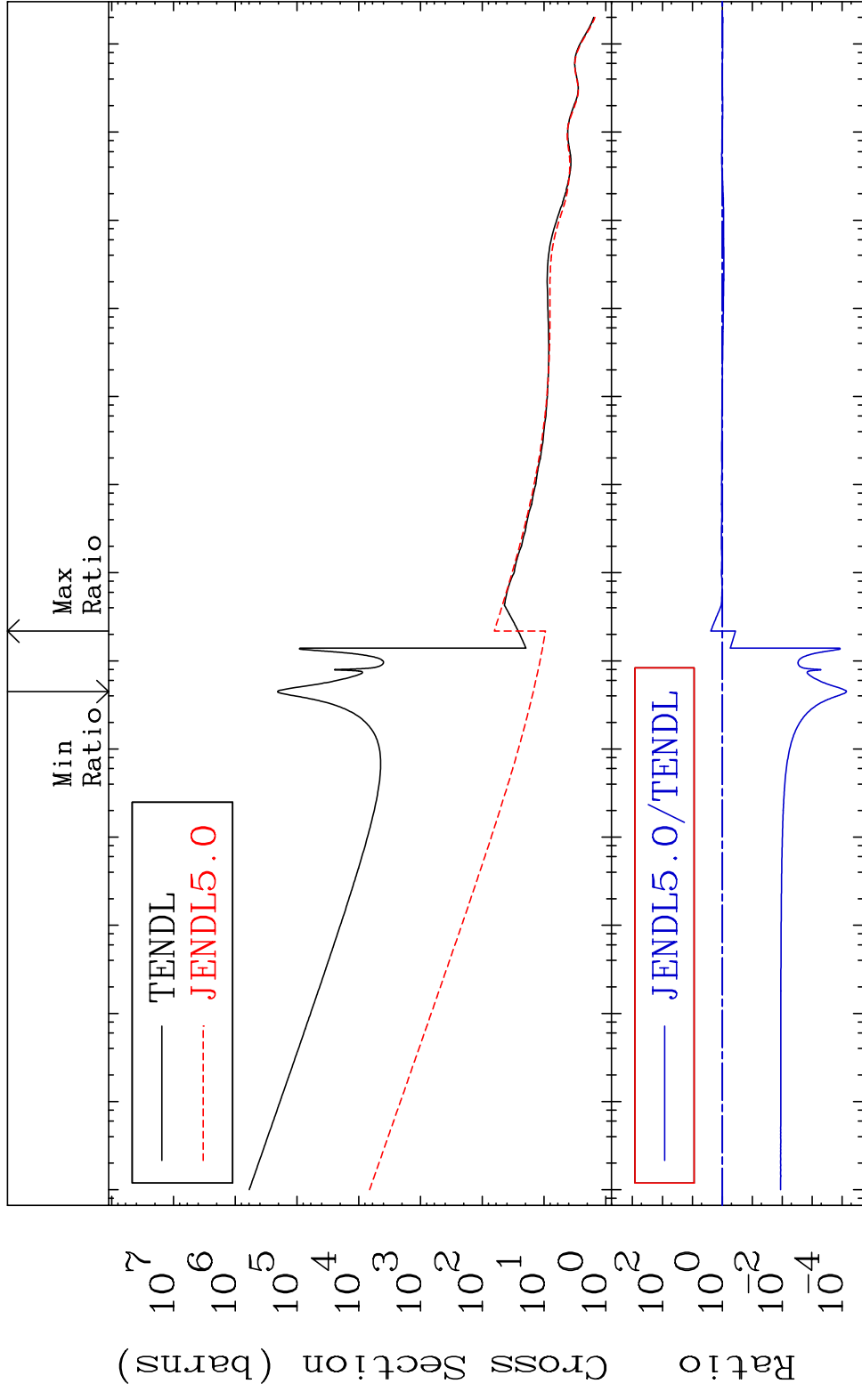
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4022

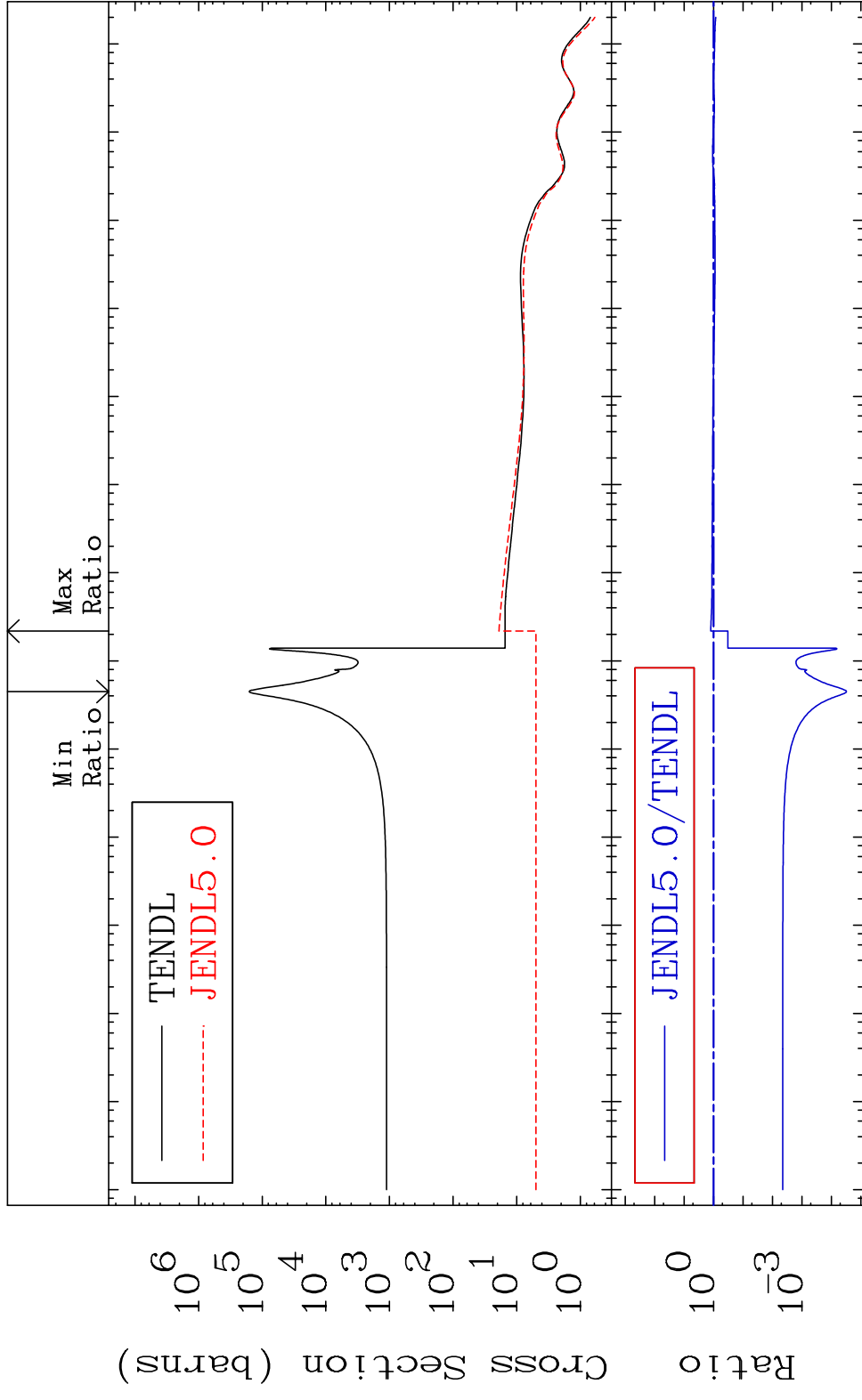
Total Cross Section -99.99 To 144.0 %
40-Zr-89



1 Incident Energy (eV) 40-Zr-89

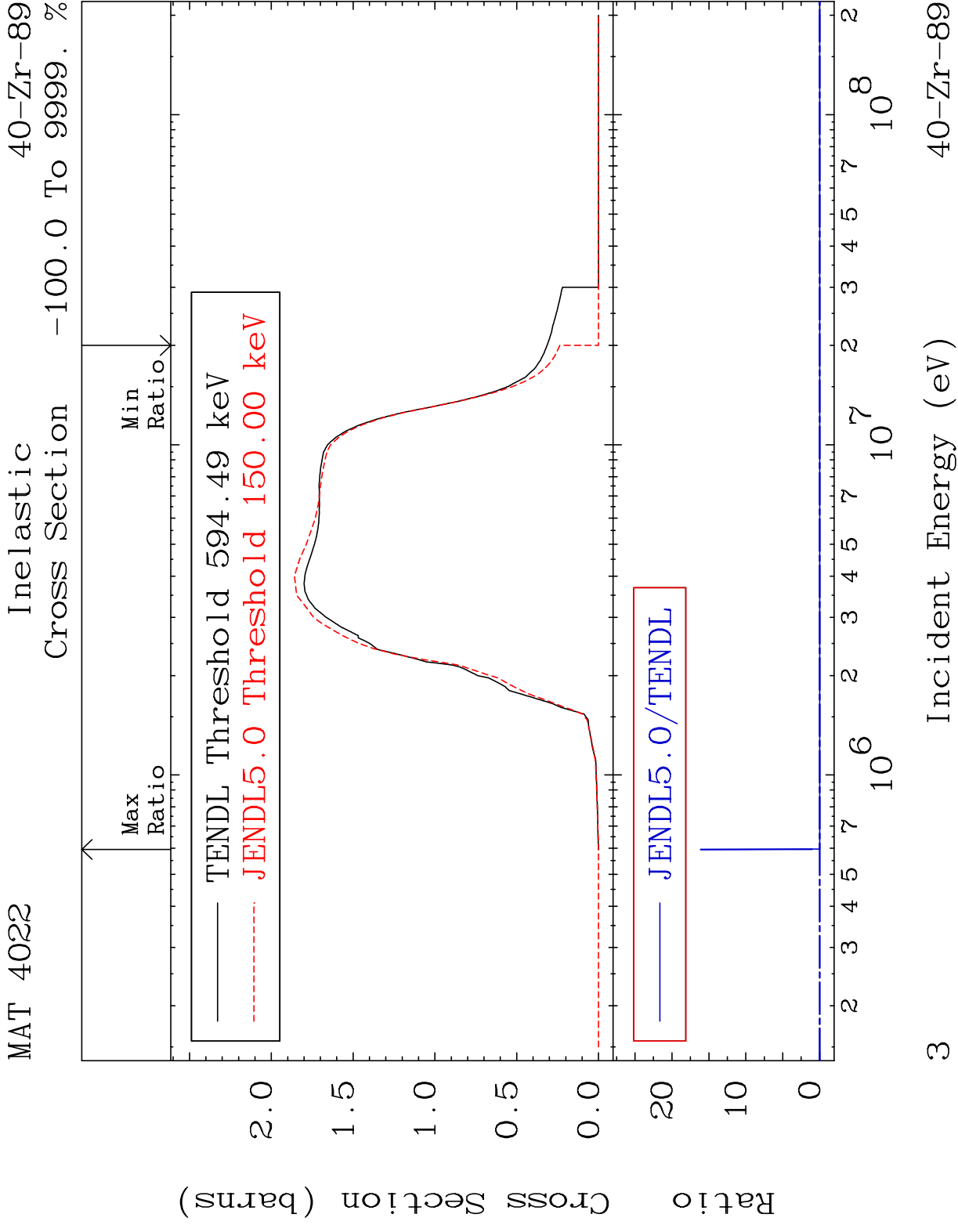
MAT 4022

Elastic Cross Section -100.0 To 25.20 %
40-Zr-89

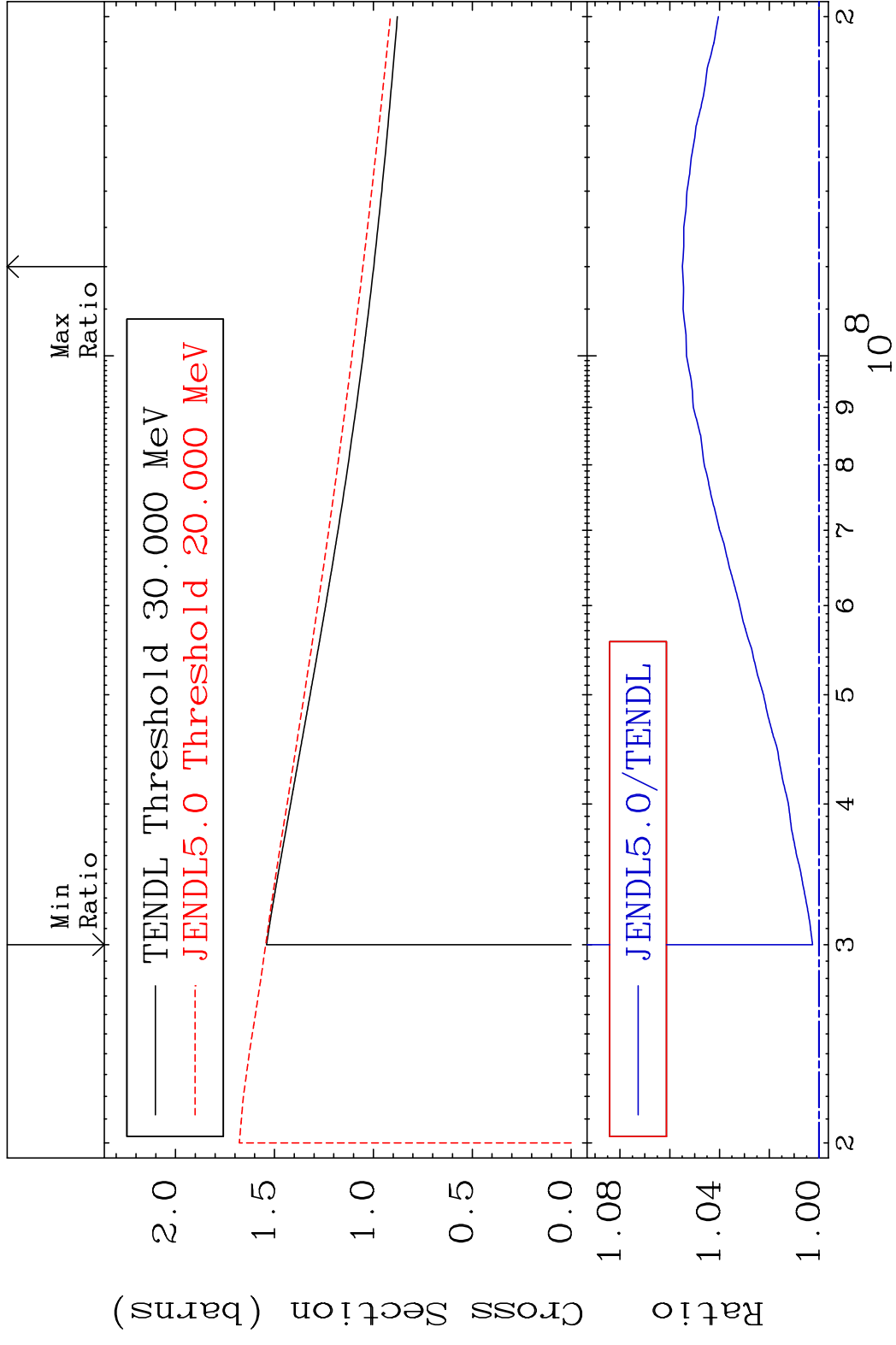


2

Incident Energy (eV) 40-Zr-89



MAT 4022 (n, remainder) 40-Zr-89
 Cross Section 0.262 To 5.493 %



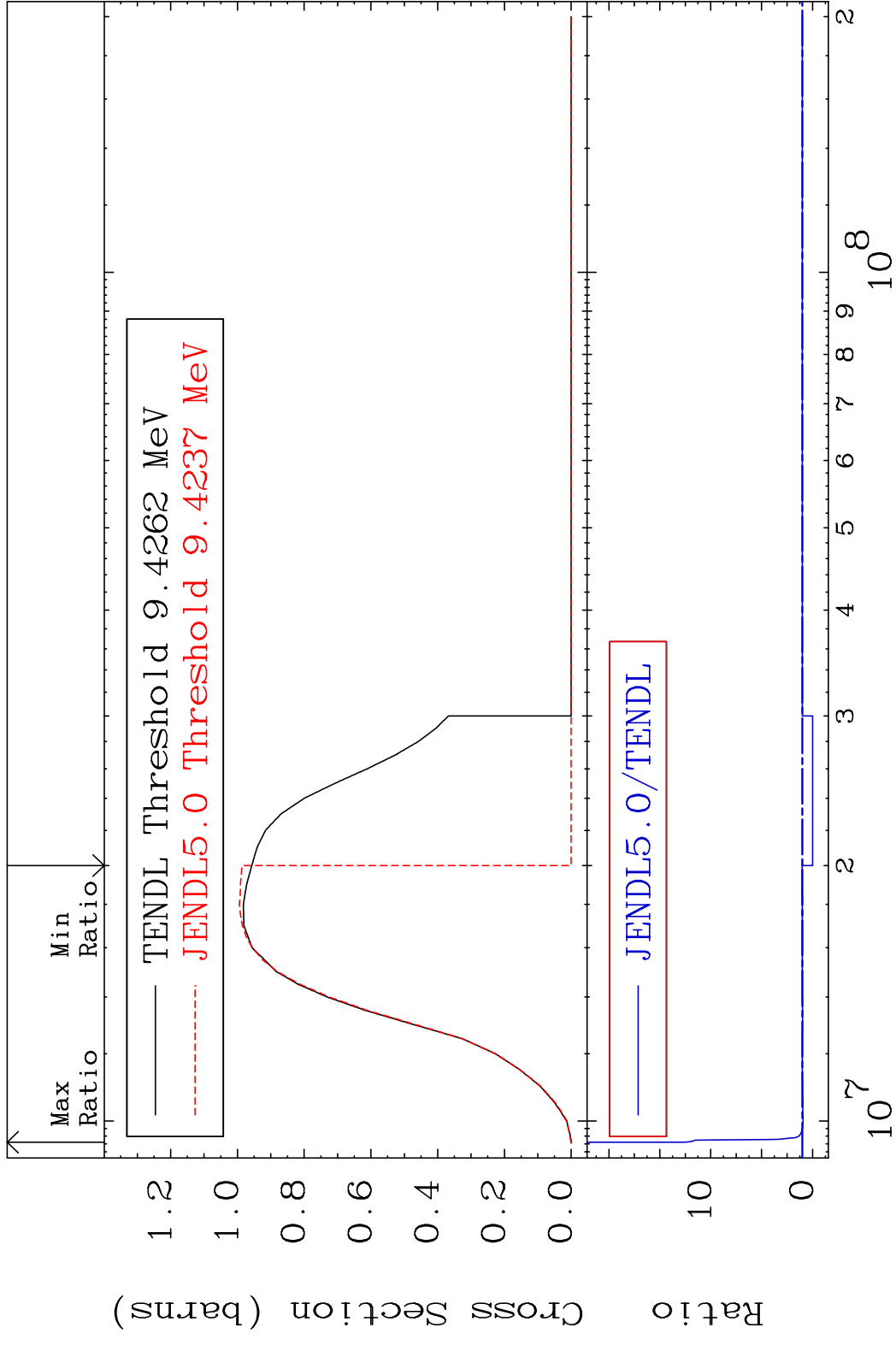
4 Incident Energy (eV) 40-Zr-89

MAT 4022

(n,2n)

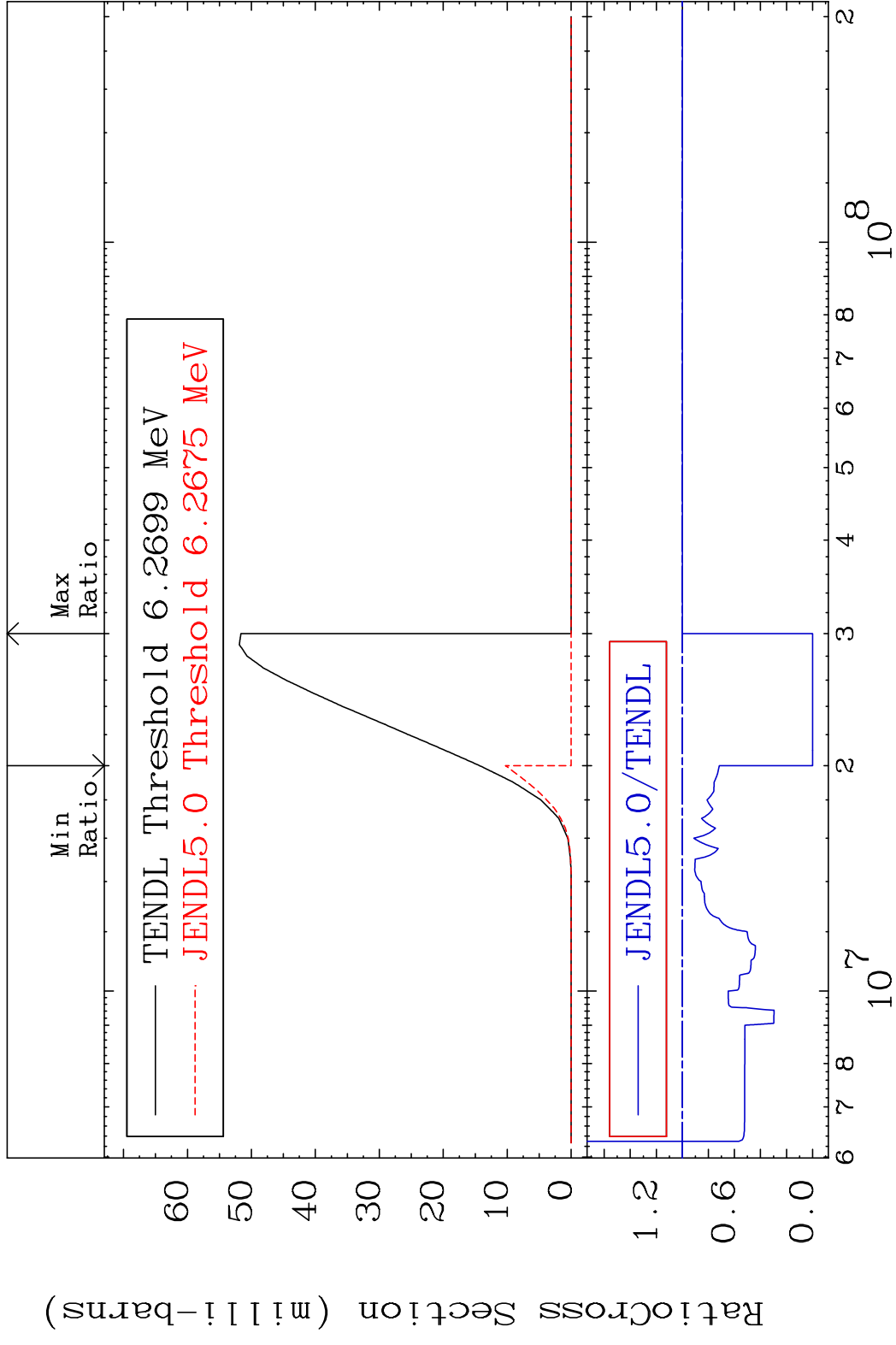
40-Zr-89

Cross Section -100.0 To 1178. %



5 Incident Energy (eV) 40-Zr-89

MAT 4022 (n, n') α 40-Zr-89
 Cross Section -100.0 To 0.000 %



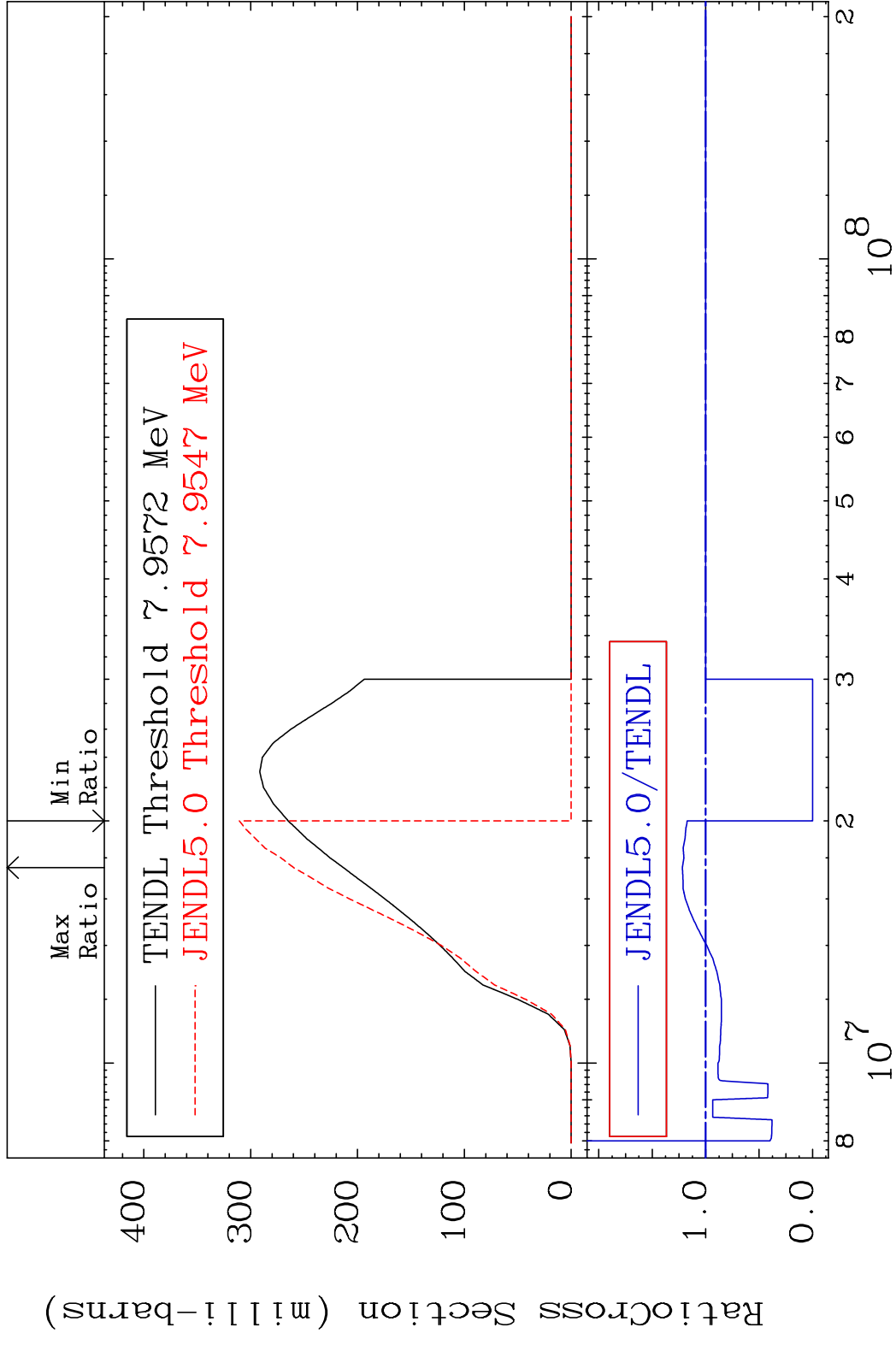
6 6 7 8 10⁷ 2 3 4 5 6 7 8 10⁸ 2 40-Zr-89

MAT 4022

(n, n') p

40-Zr-89

Cross Section -100.0 To 21.82 %

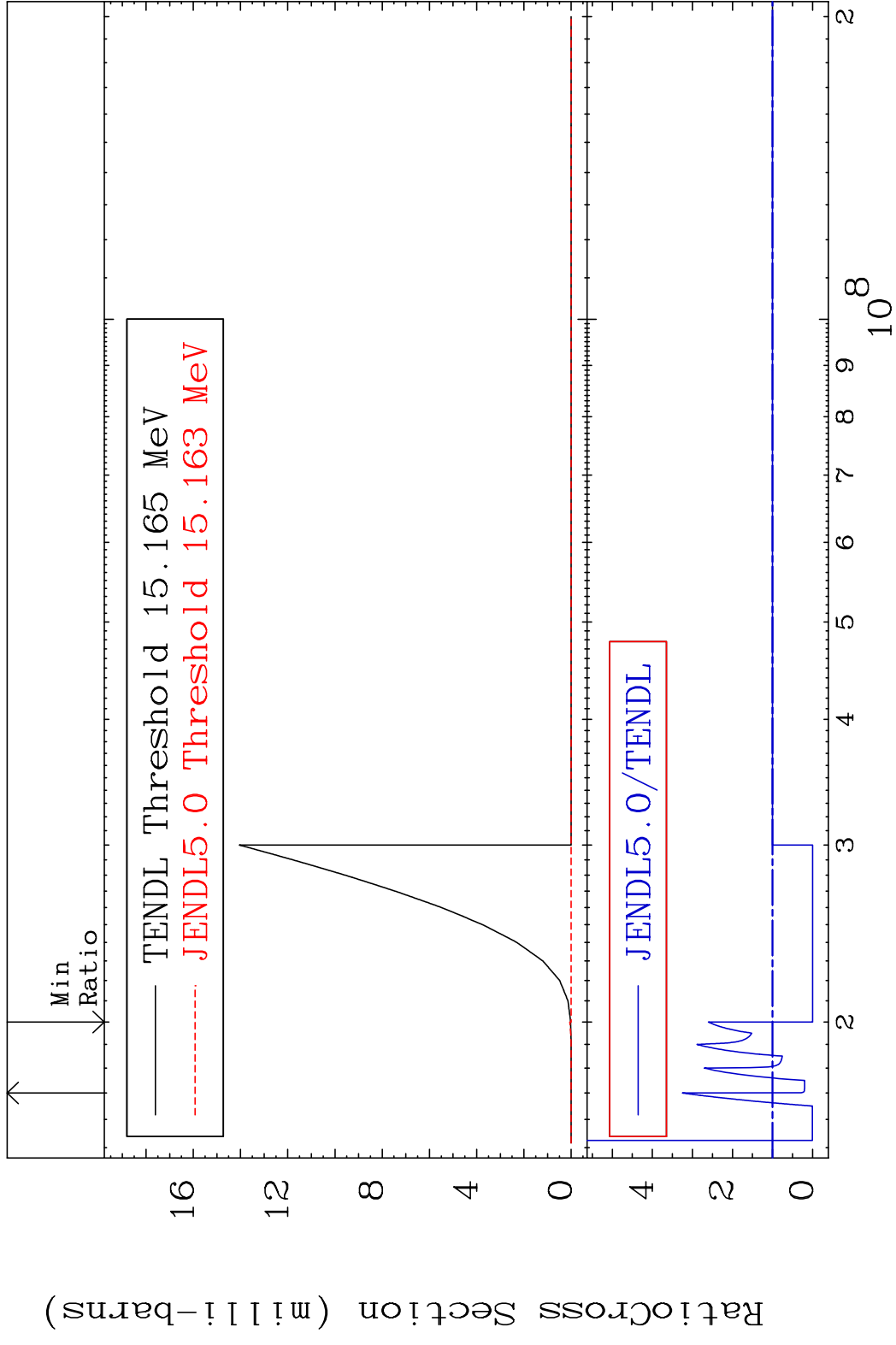


7

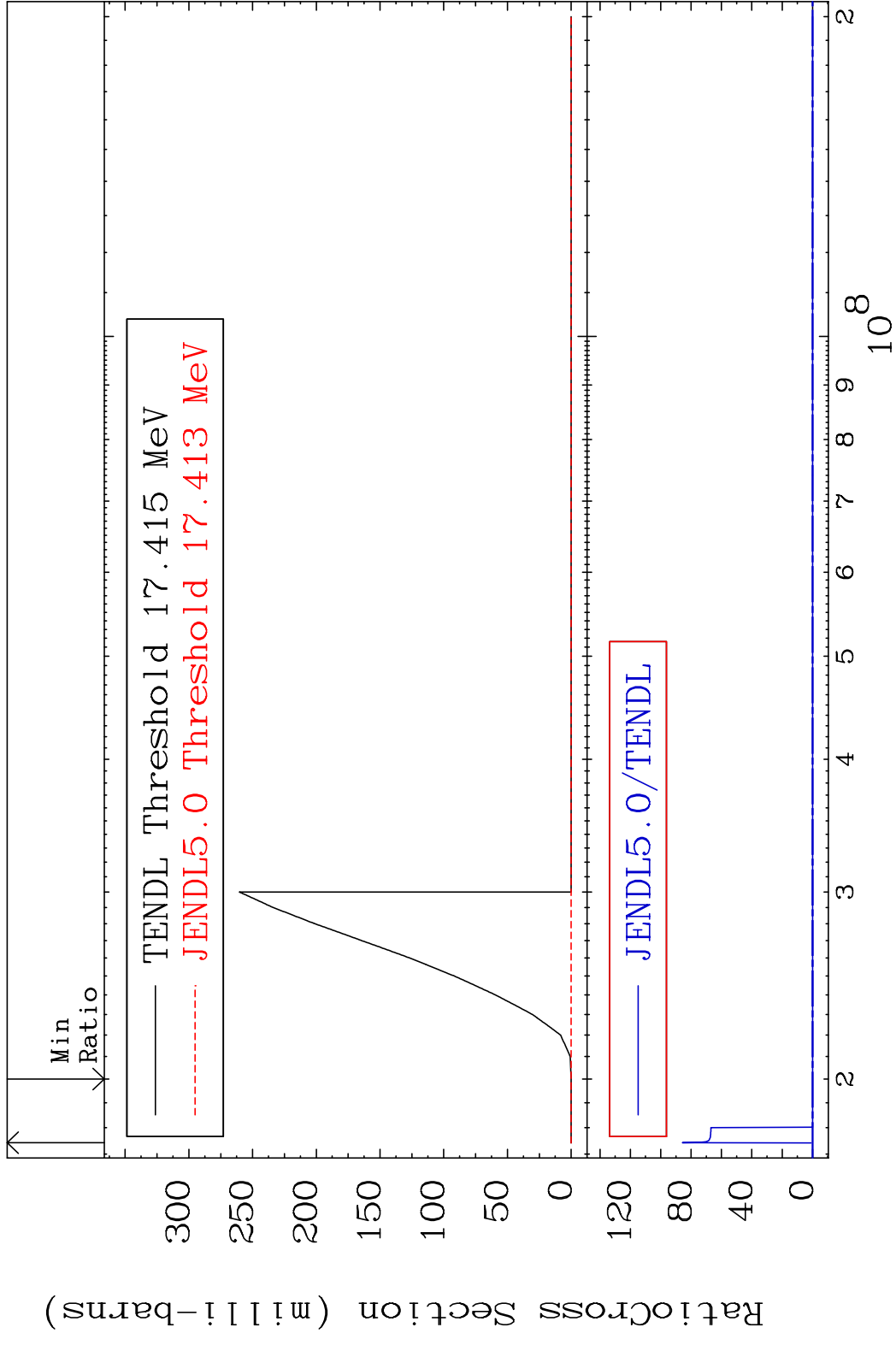
Incident Energy (eV)

40-Zr-89

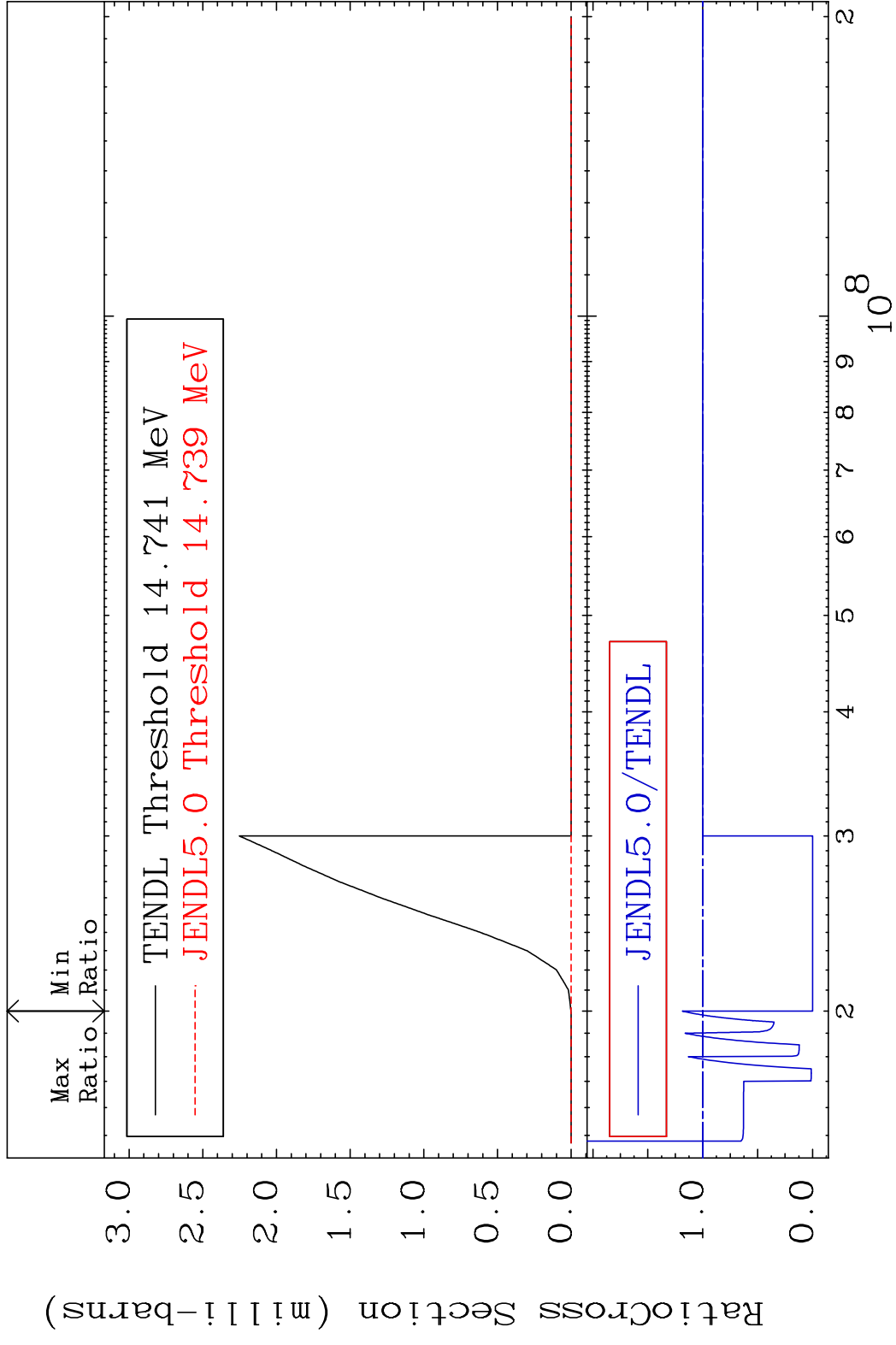
MAT 4022 (n, n') d 40-Zr-89
 Cross Section -100.0 To 225.1 %



MAT 4022 (n,2n) p 40-Zr-89
 Cross Section -100.0 To 9999. %

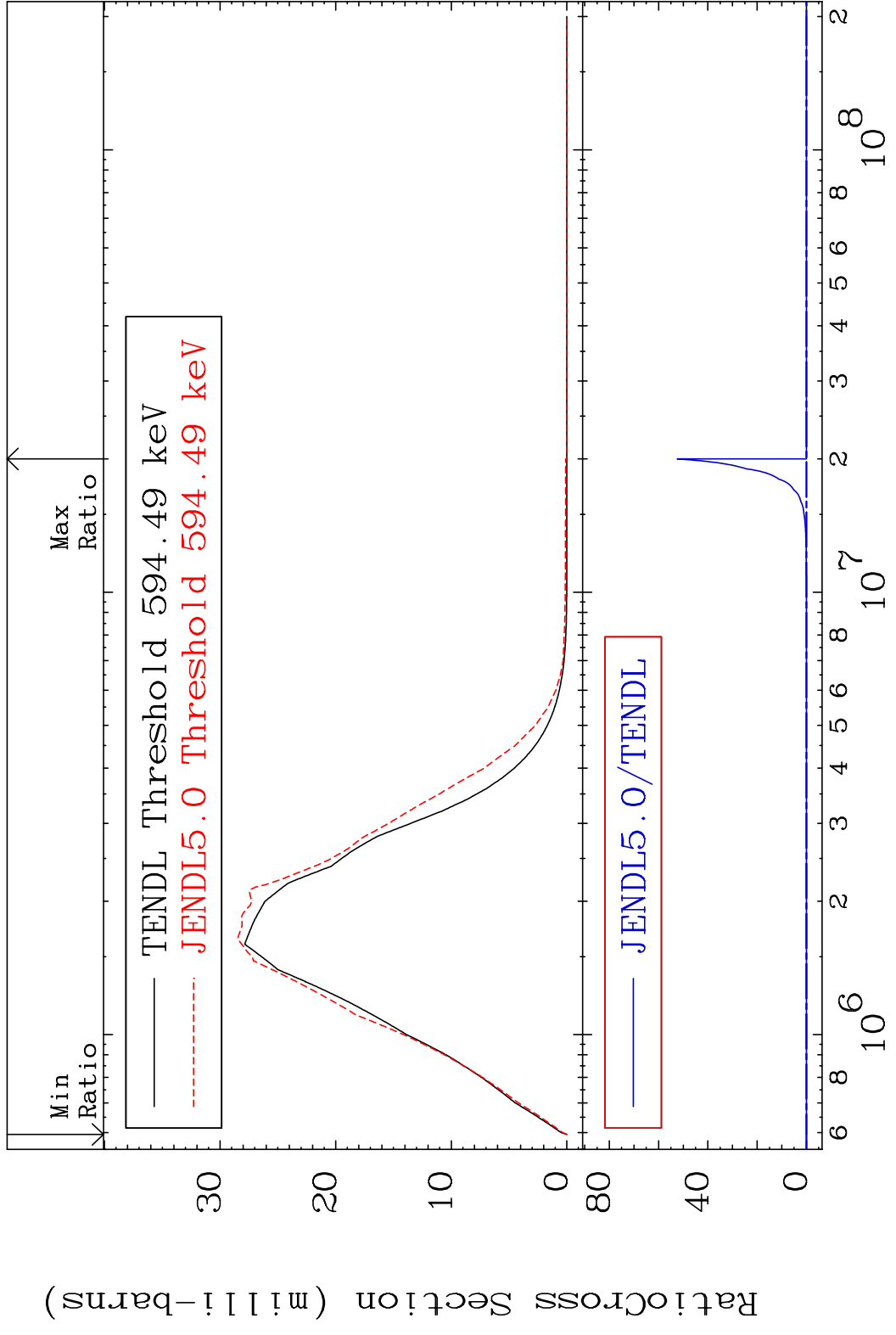


MAT 4022 (n,2n) p 40-Zr-89
 Cross Section -100.0 To 18.57 %

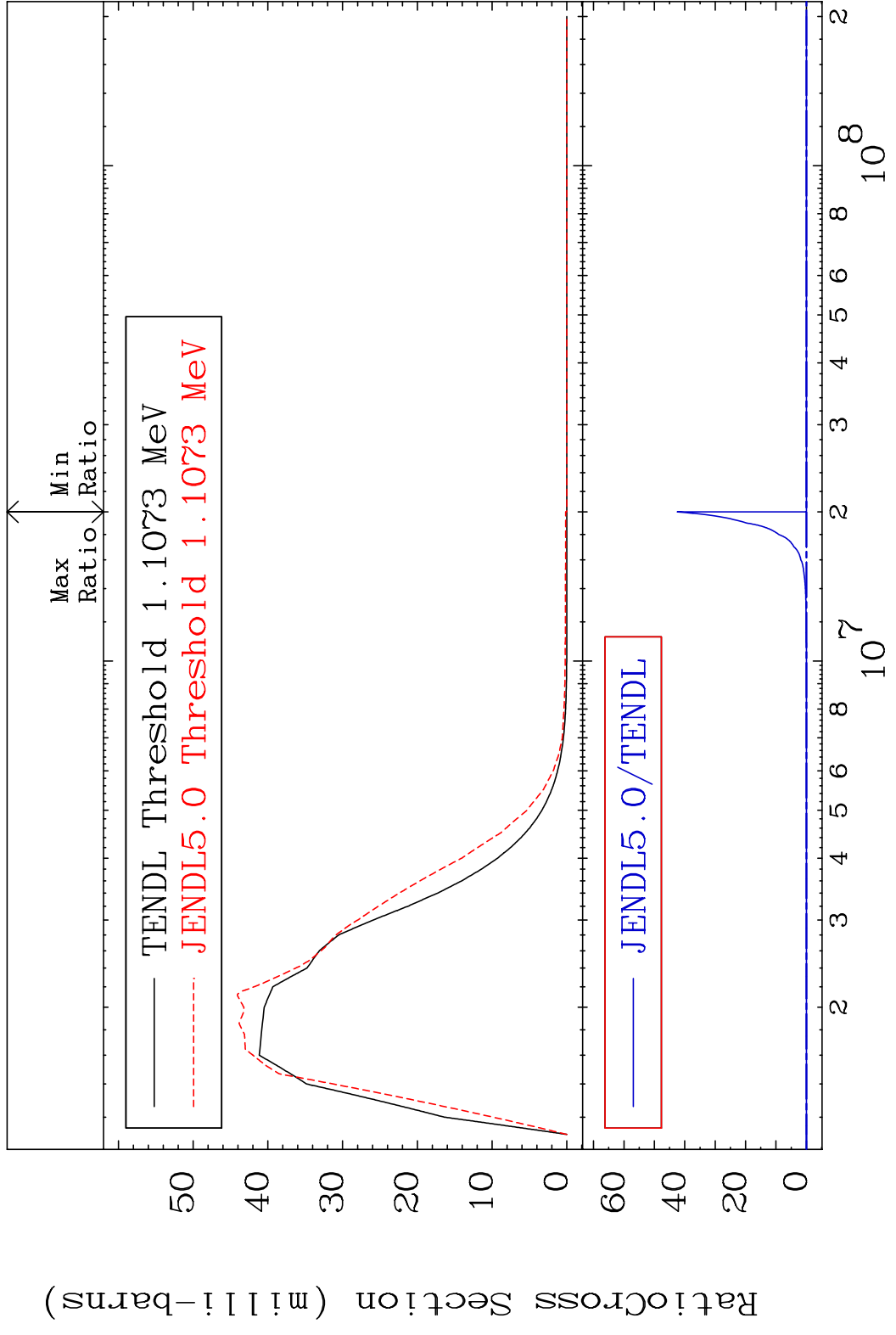


10 Incident Energy (eV) 40-Zr-89

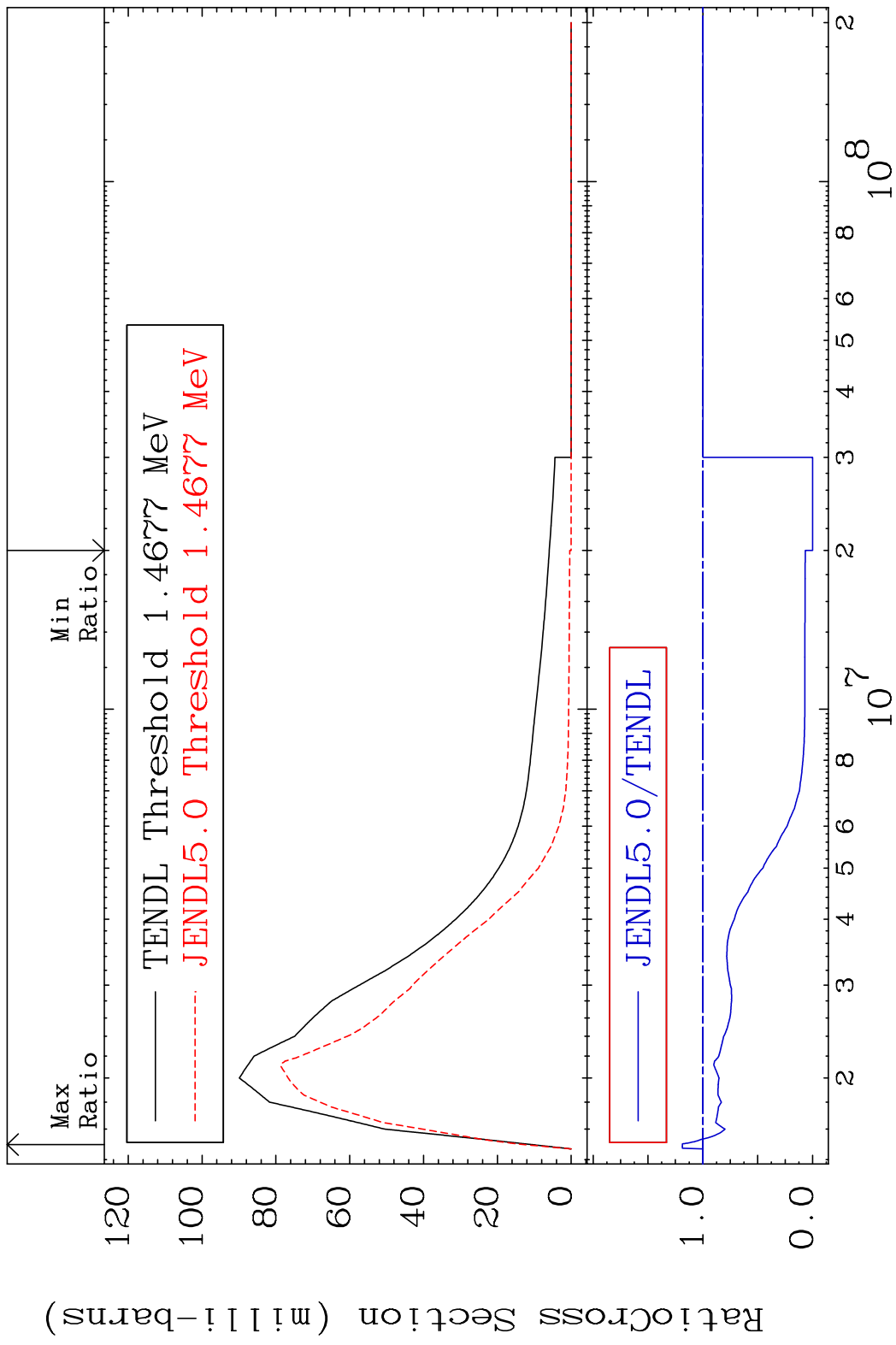
MAT 4022 MT= 51 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 9999. %



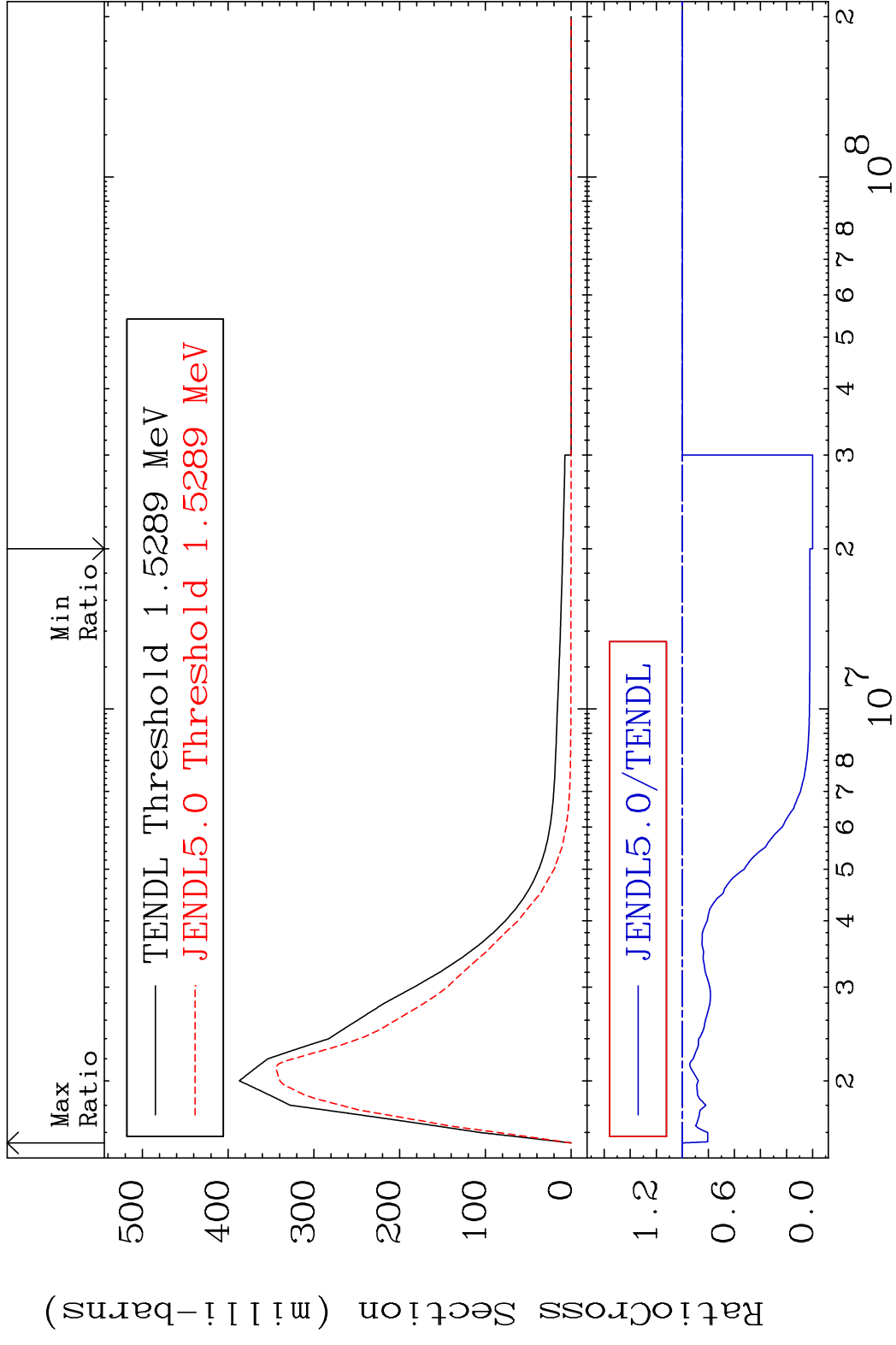
MAT 4022 MT= 52 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 9999. %



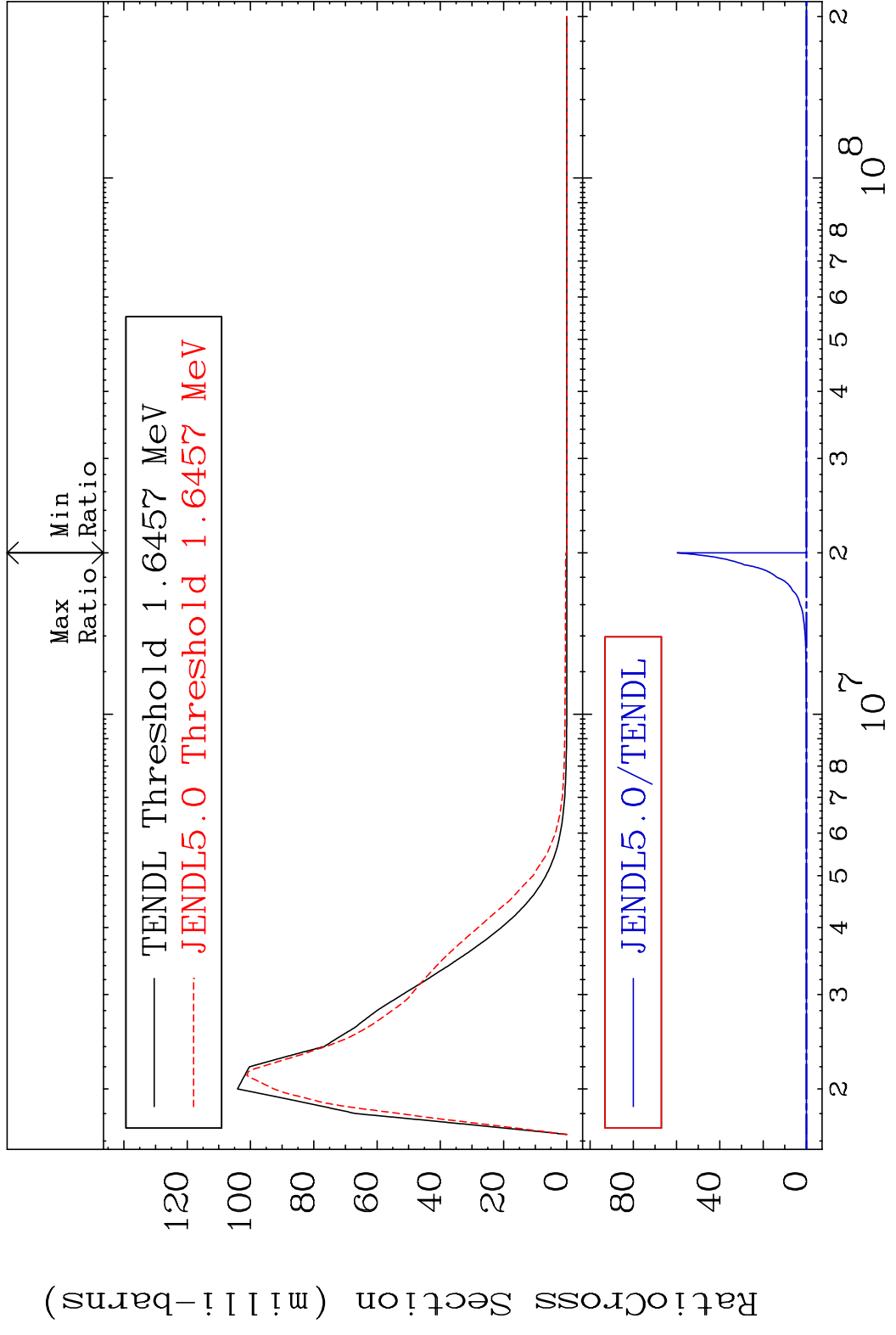
MAT 4022 MT= 53 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 18.68 %



MAT 4022 MT= 54 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 0.000 %

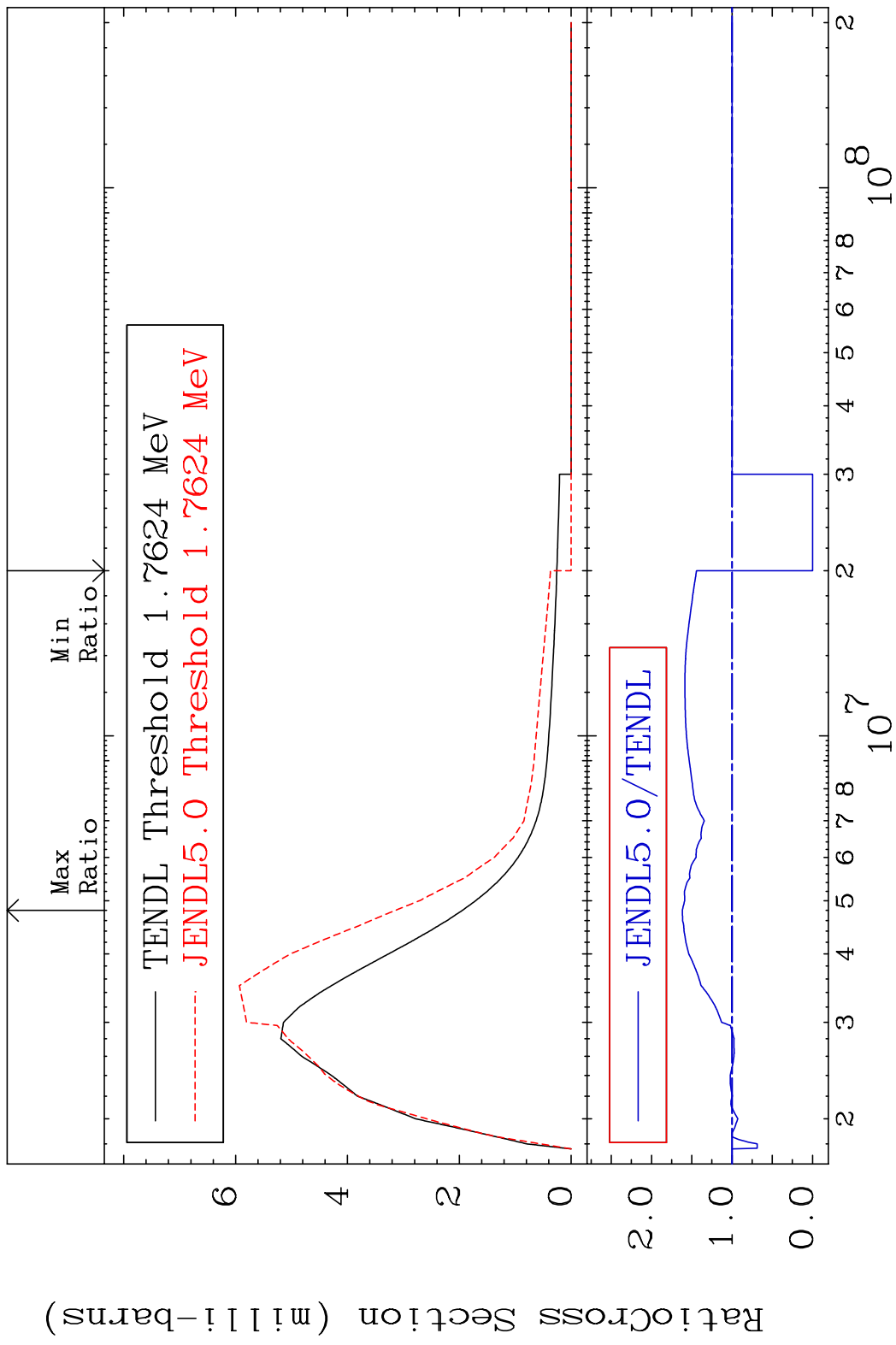


MAT 4022 MT= 55 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 9999. %

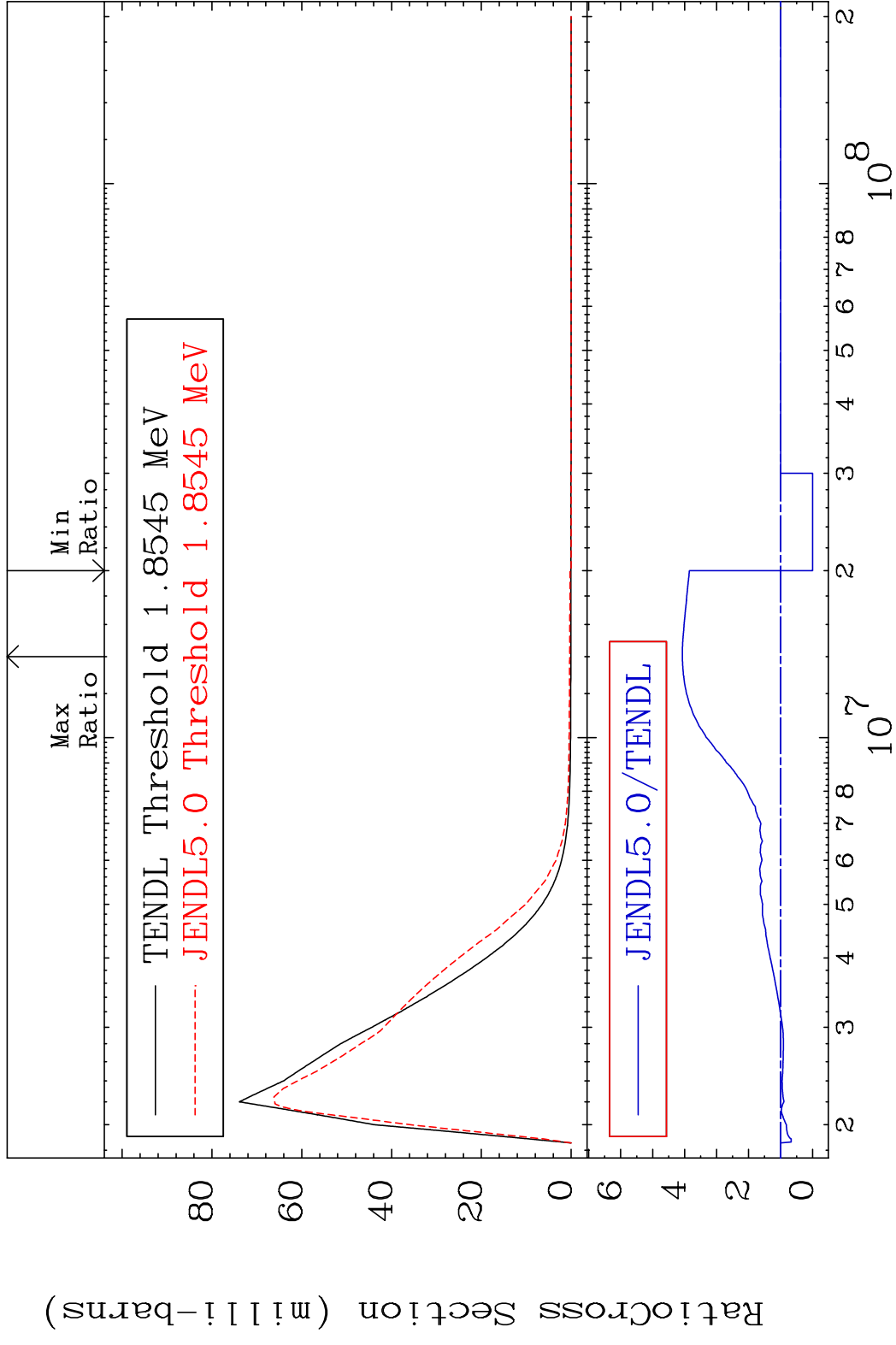


15 Incident Energy (eV) 40-Zr-89

MAT 4022 MT= 56 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 61.68 %

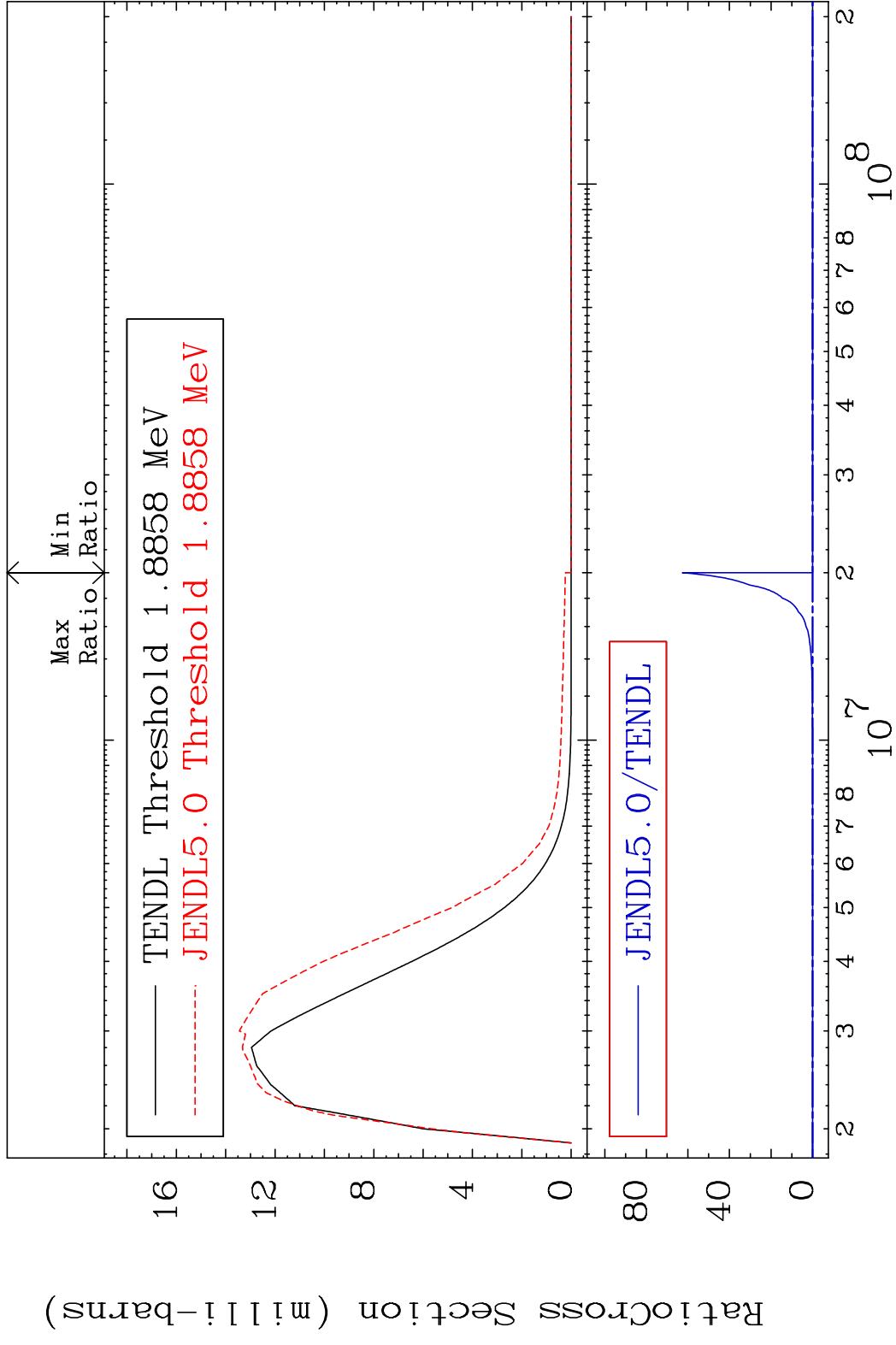


MAT 4022 MT= 57 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 307.2 %

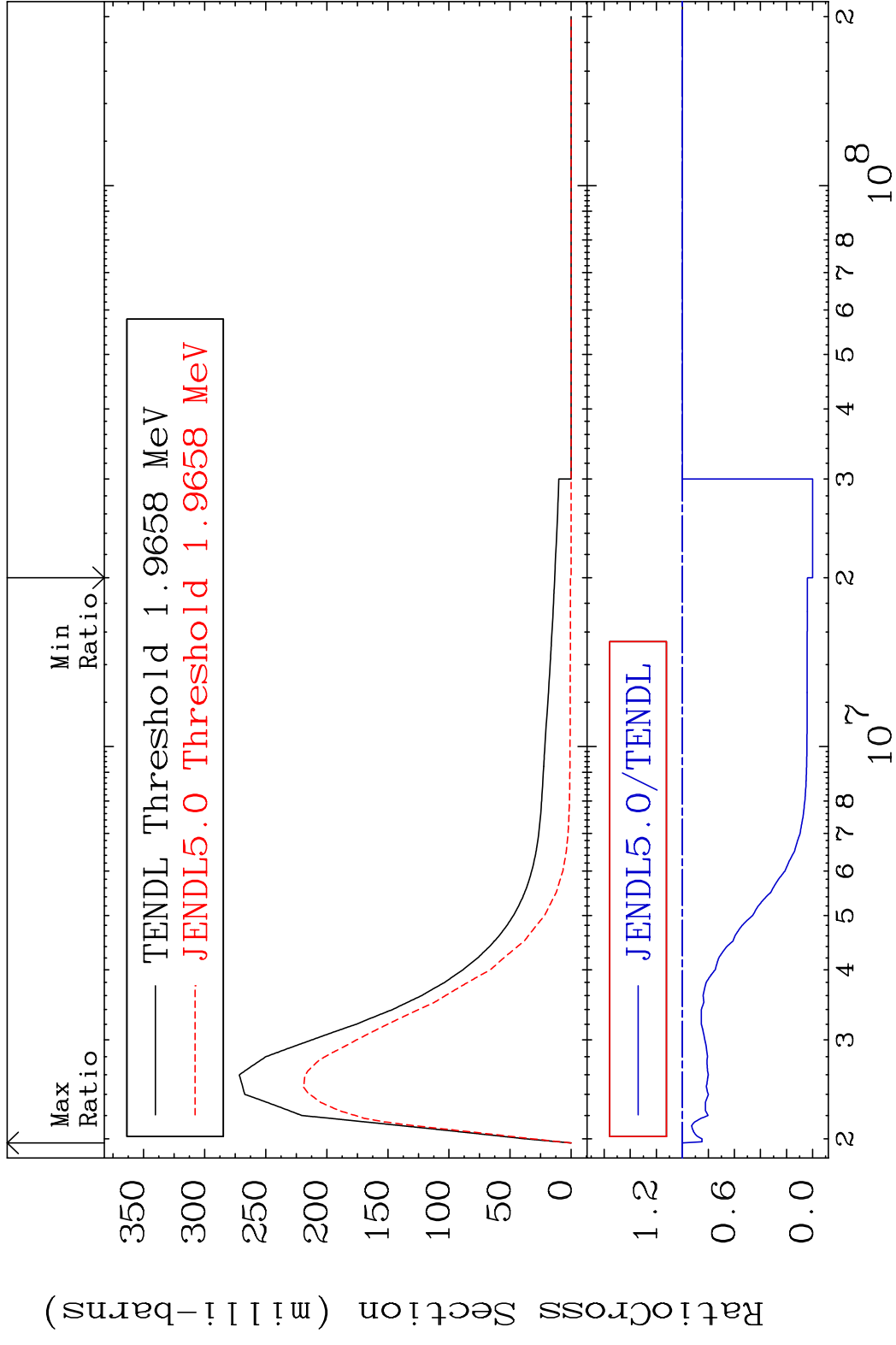


17 17 Incident Energy (eV) 40-Zr-89

MAT 4022 MT= 58 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 9999. %

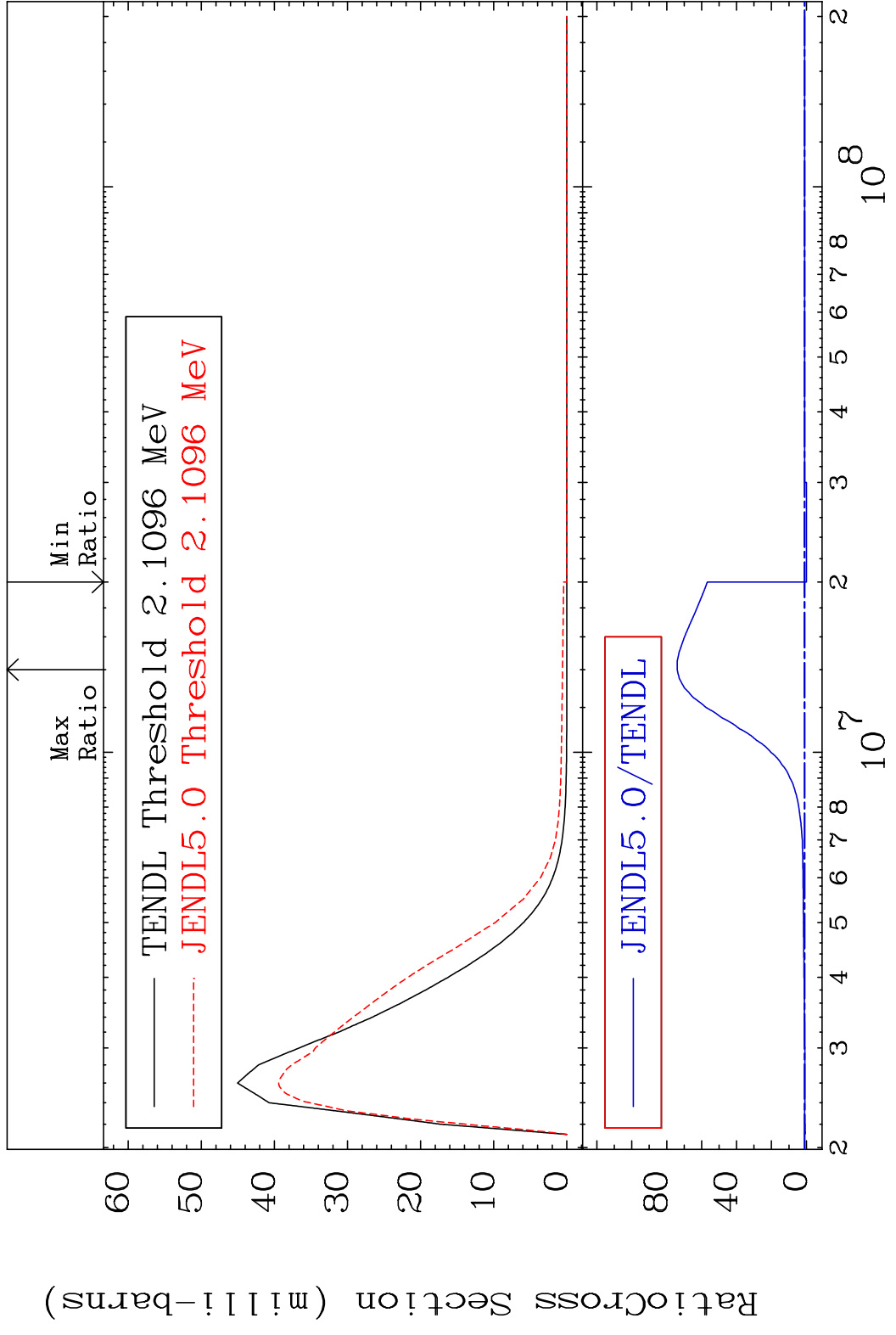


MAT 4022 MT= 59 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 0.000 %

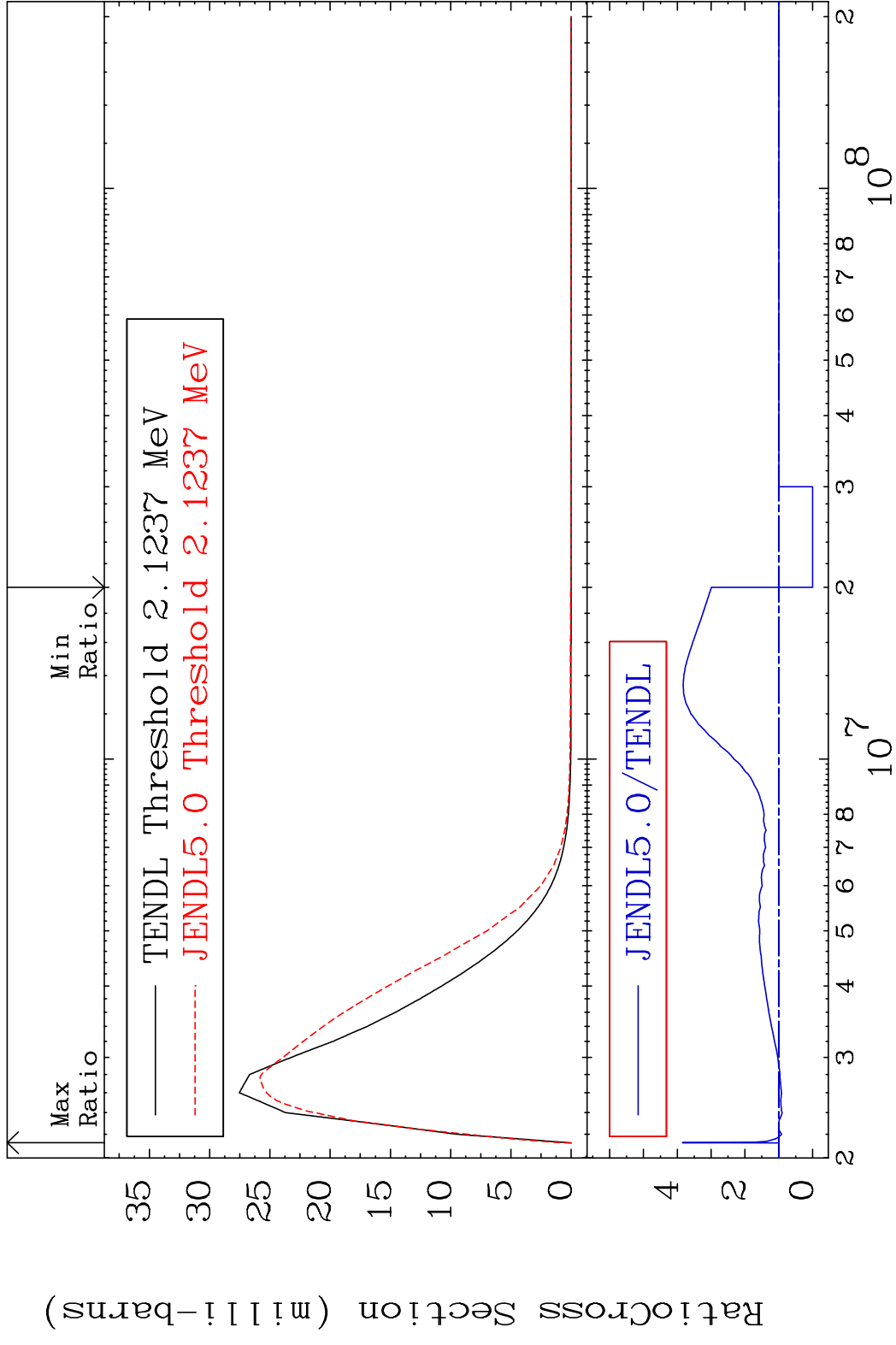


19 Incident Energy (eV) 40-Zr-89

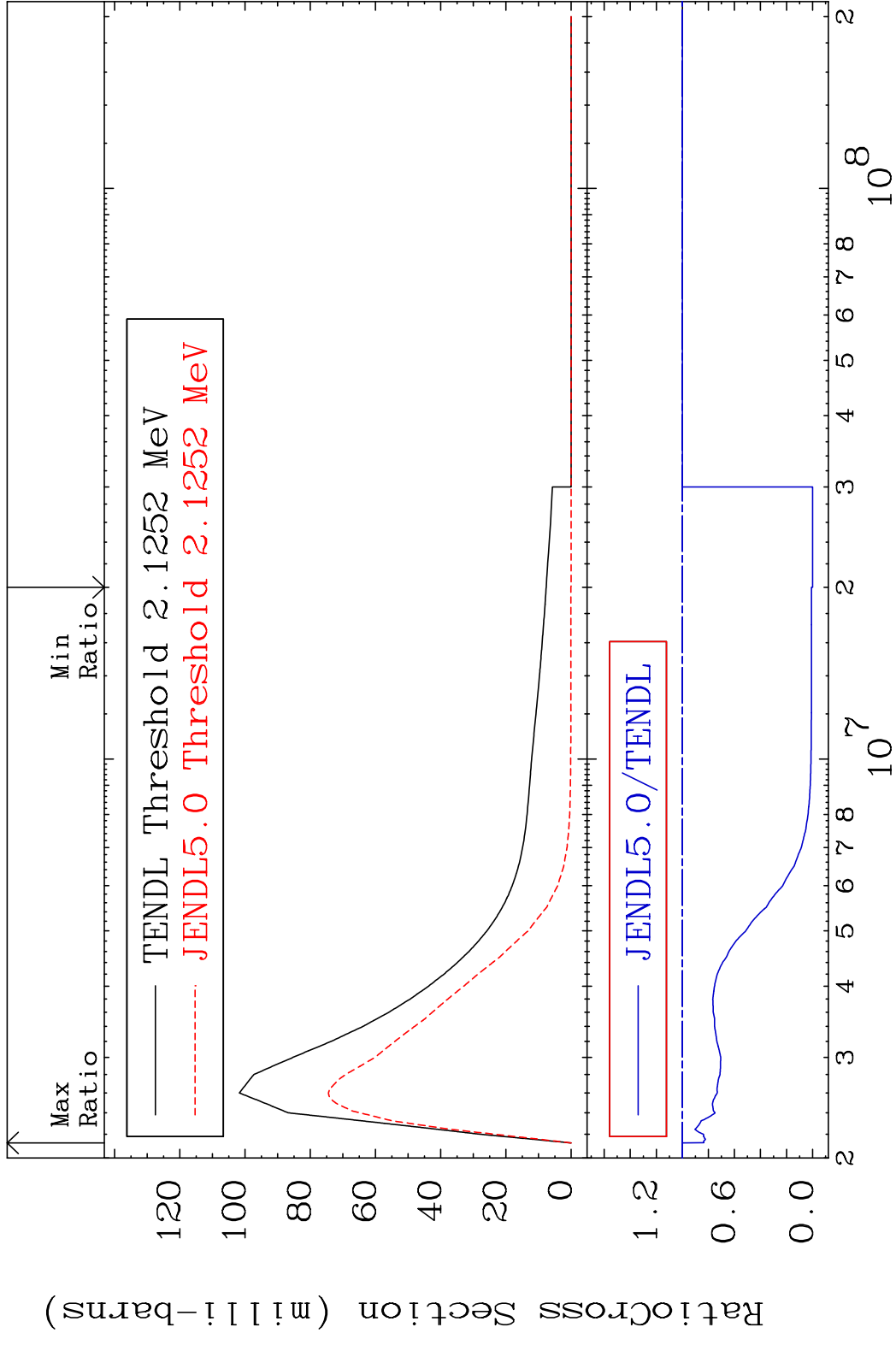
MAT 4022 MT= 60 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 7299. %



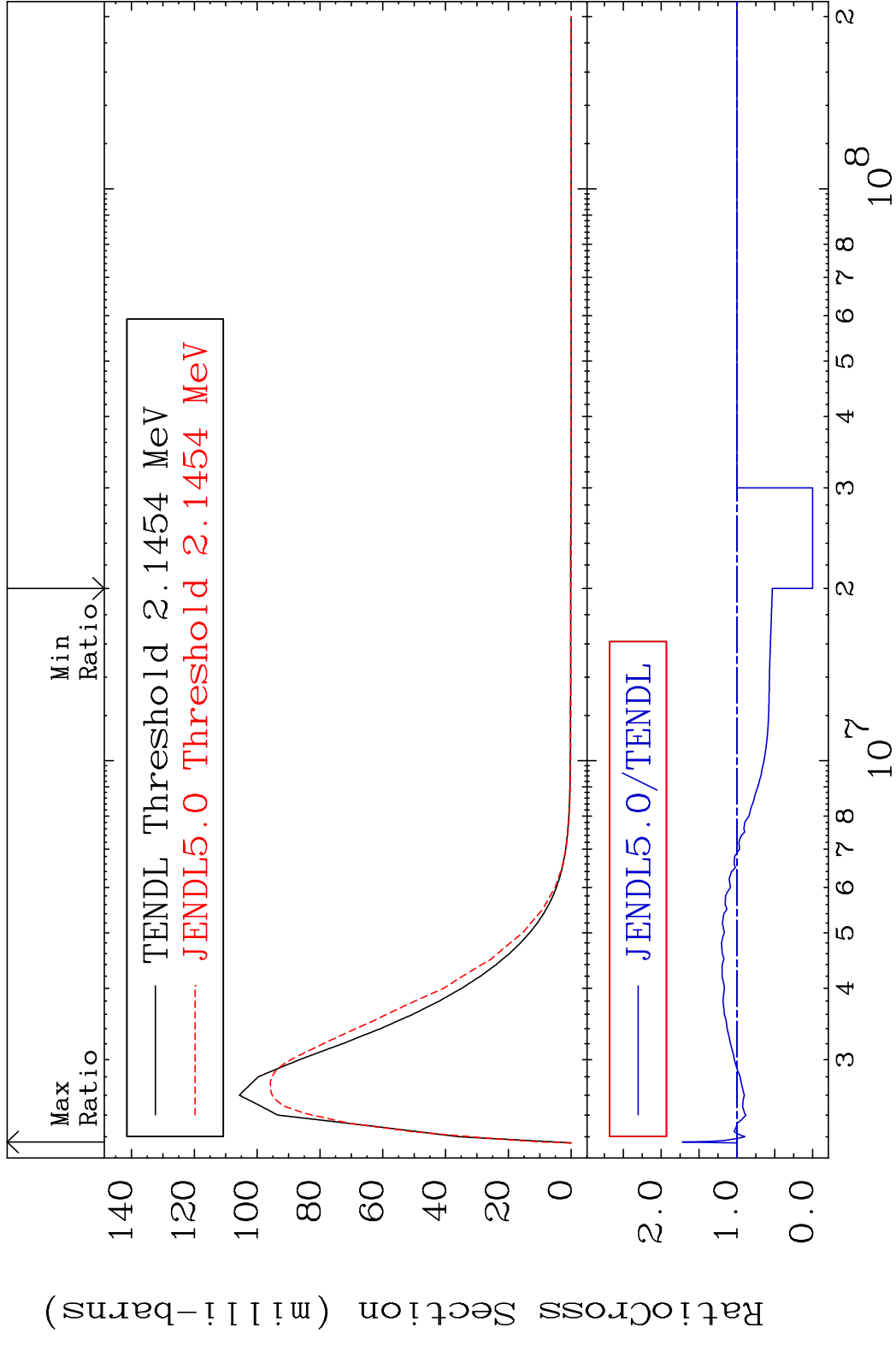
MAT 4022 MT= 61 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 285.1 %



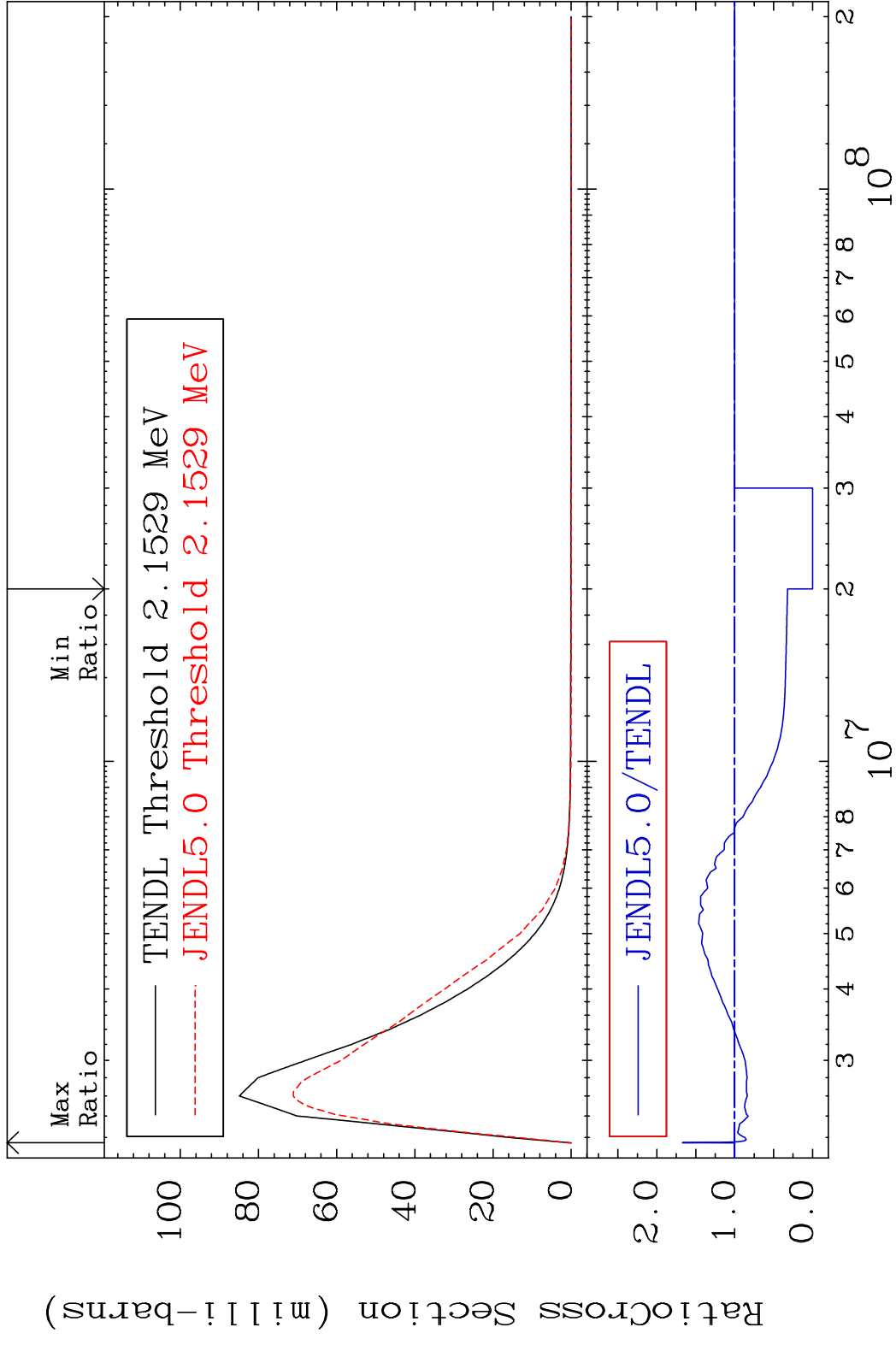
MAT 4022 MT= 62 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 0.000 %



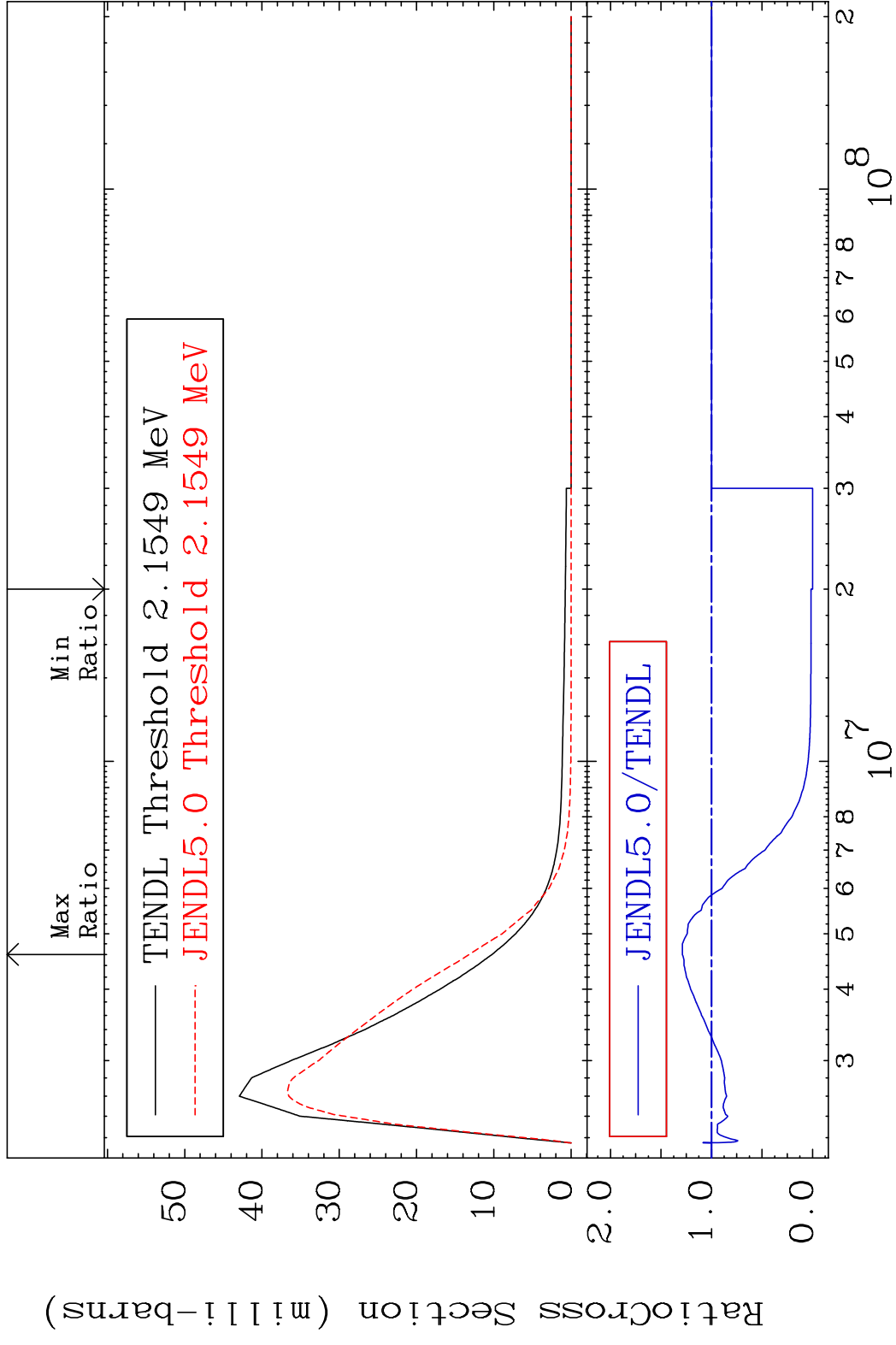
MAT 4022 MT= 63 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 72.04 %



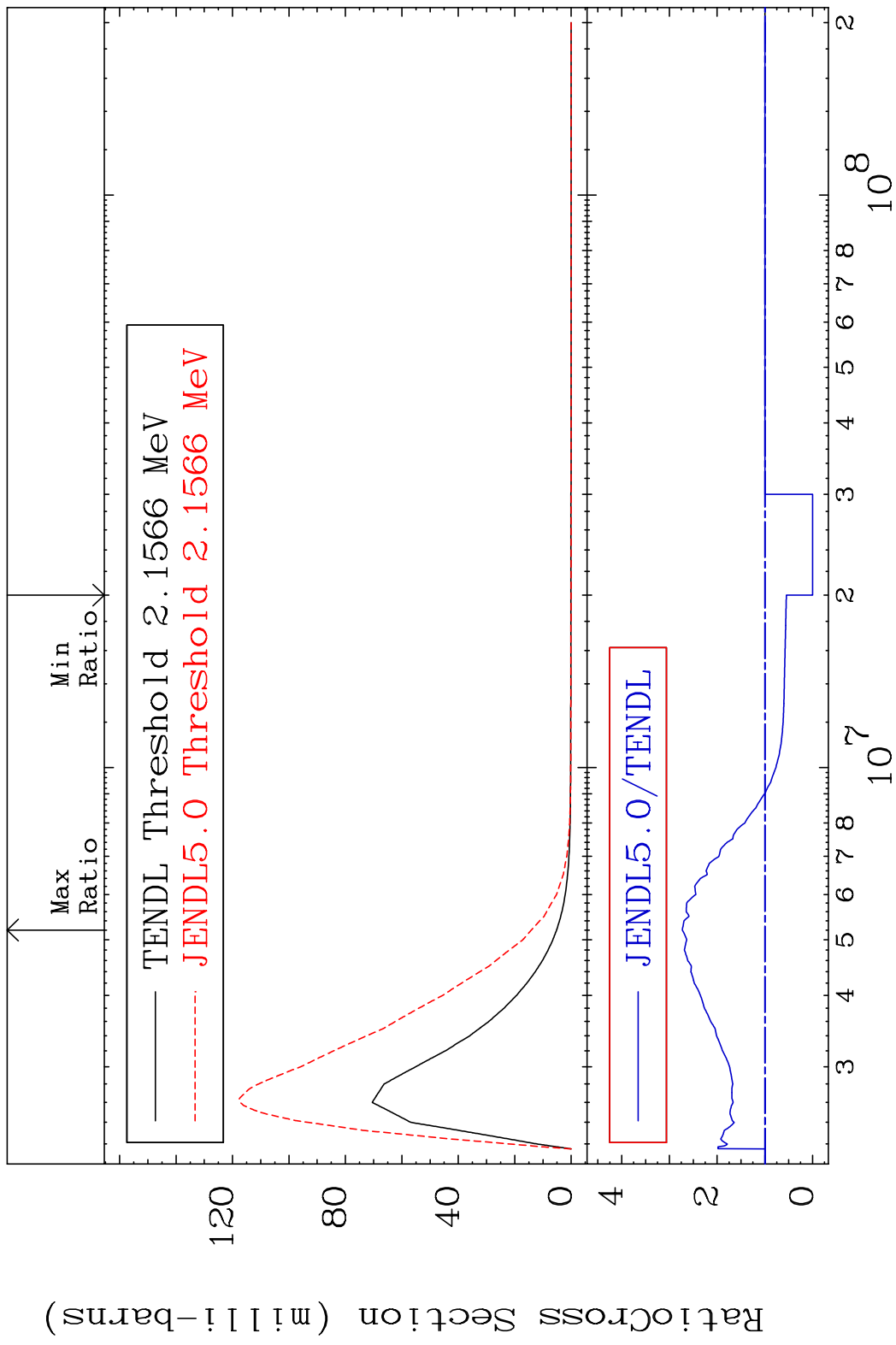
MAT 4022 MT= 64 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 67.21 %



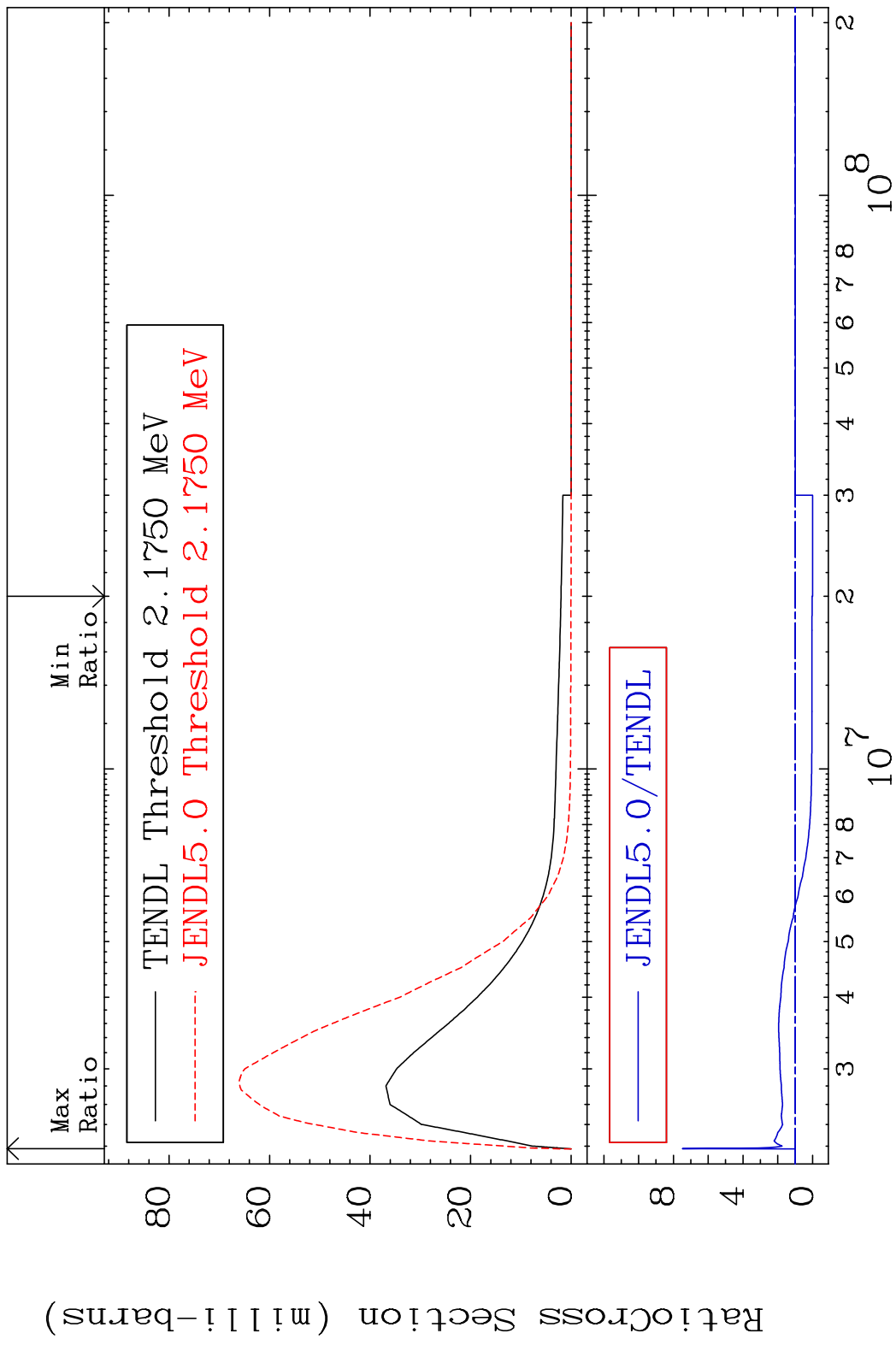
MAT 4022 MT= 65 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 28.85 %



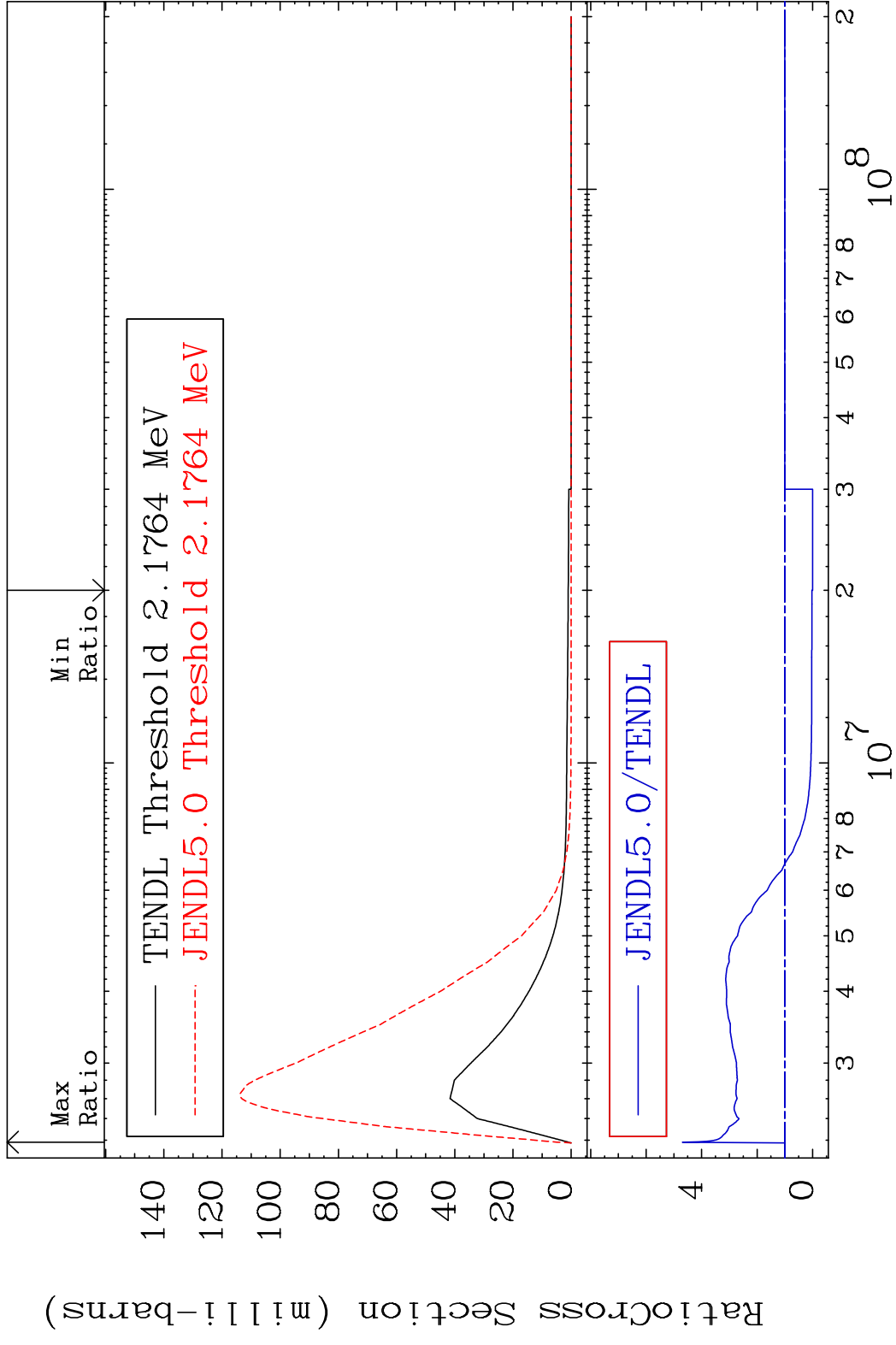
MAT 4022 MT= 66 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 172.9 %



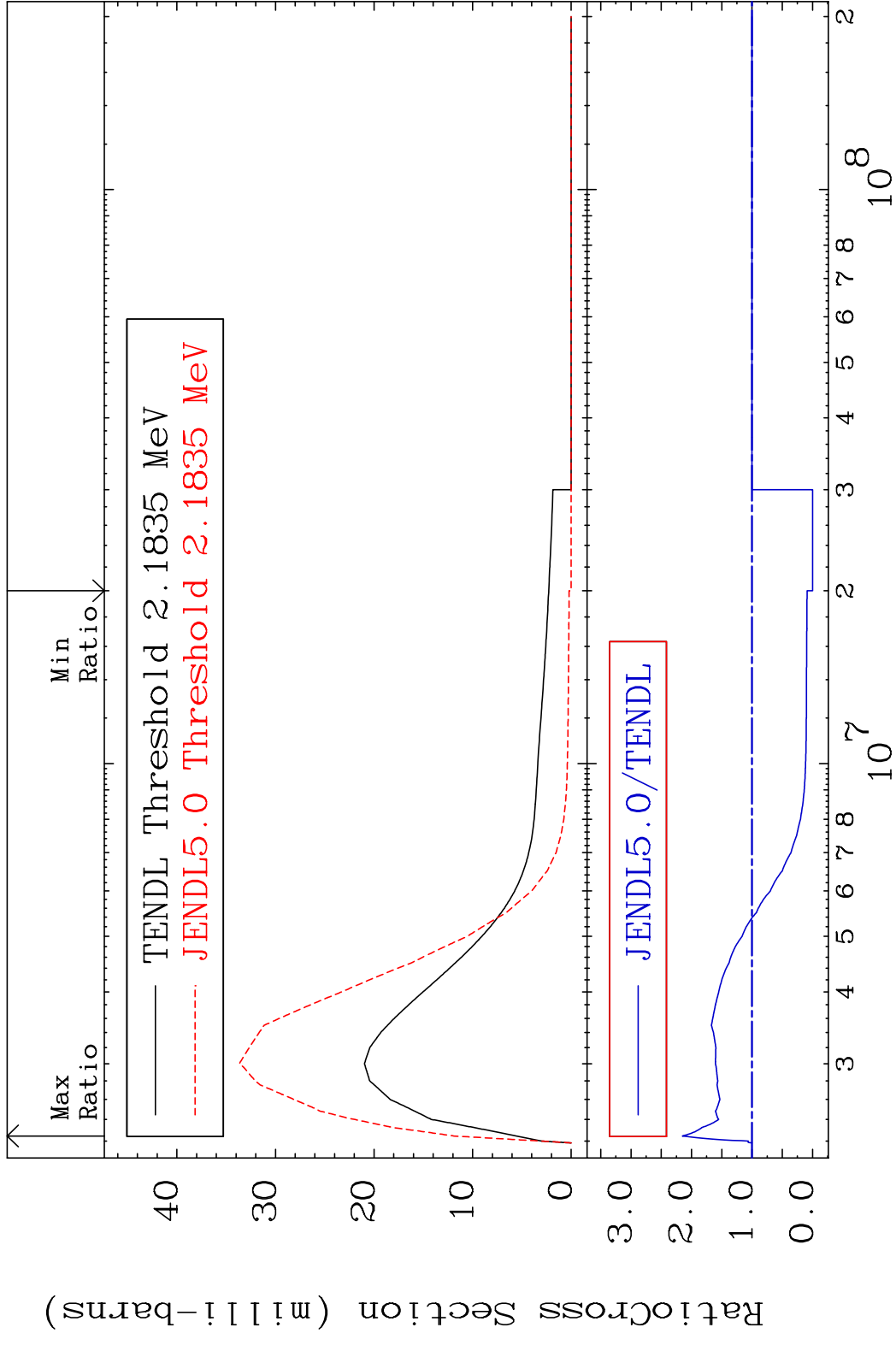
MAT 4022 MT= 67 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 648.7 %



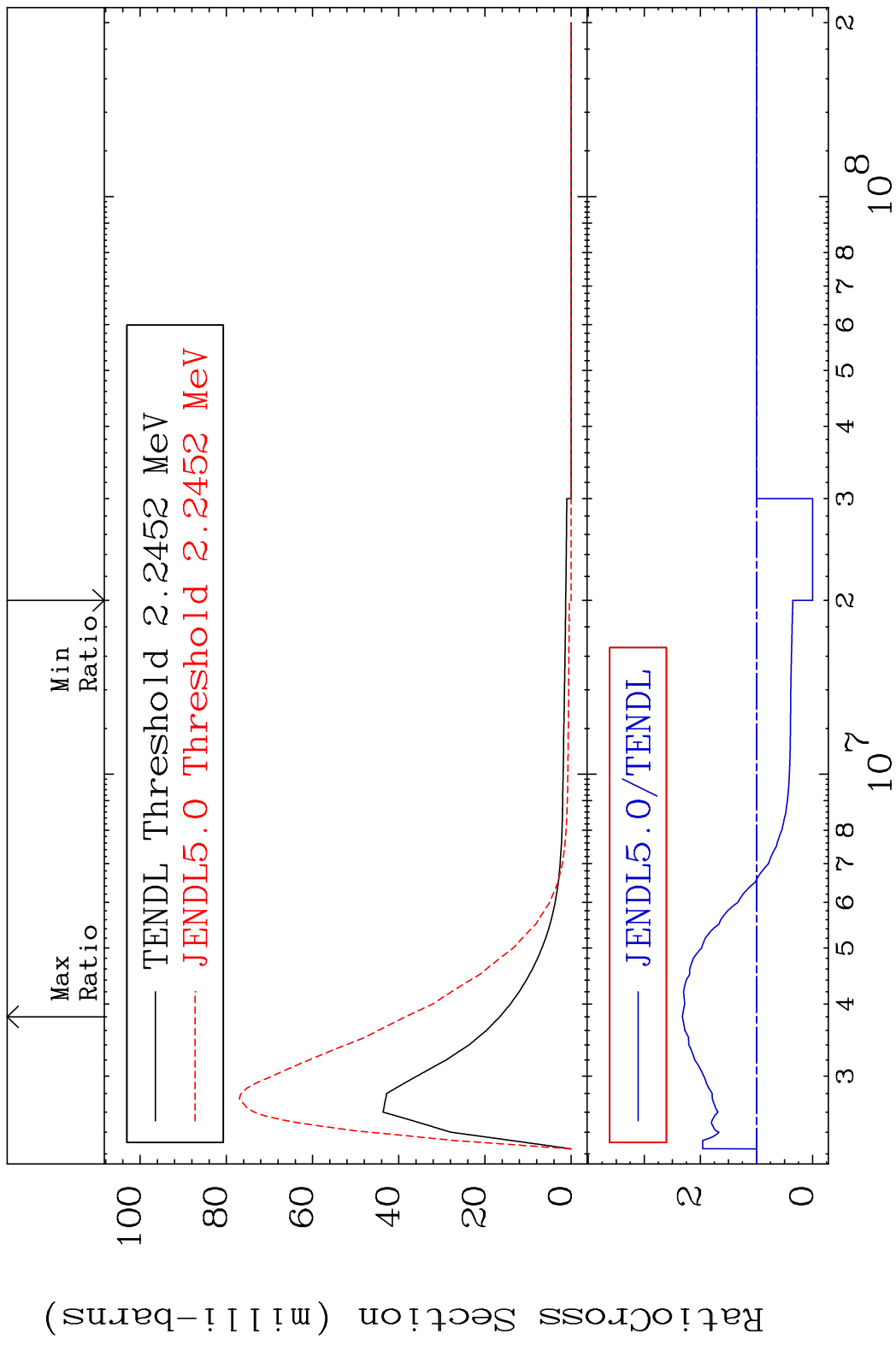
MAT 4022 MT= 68 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 369.4 %



MAT 4022 MT= 69 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 115.2 %



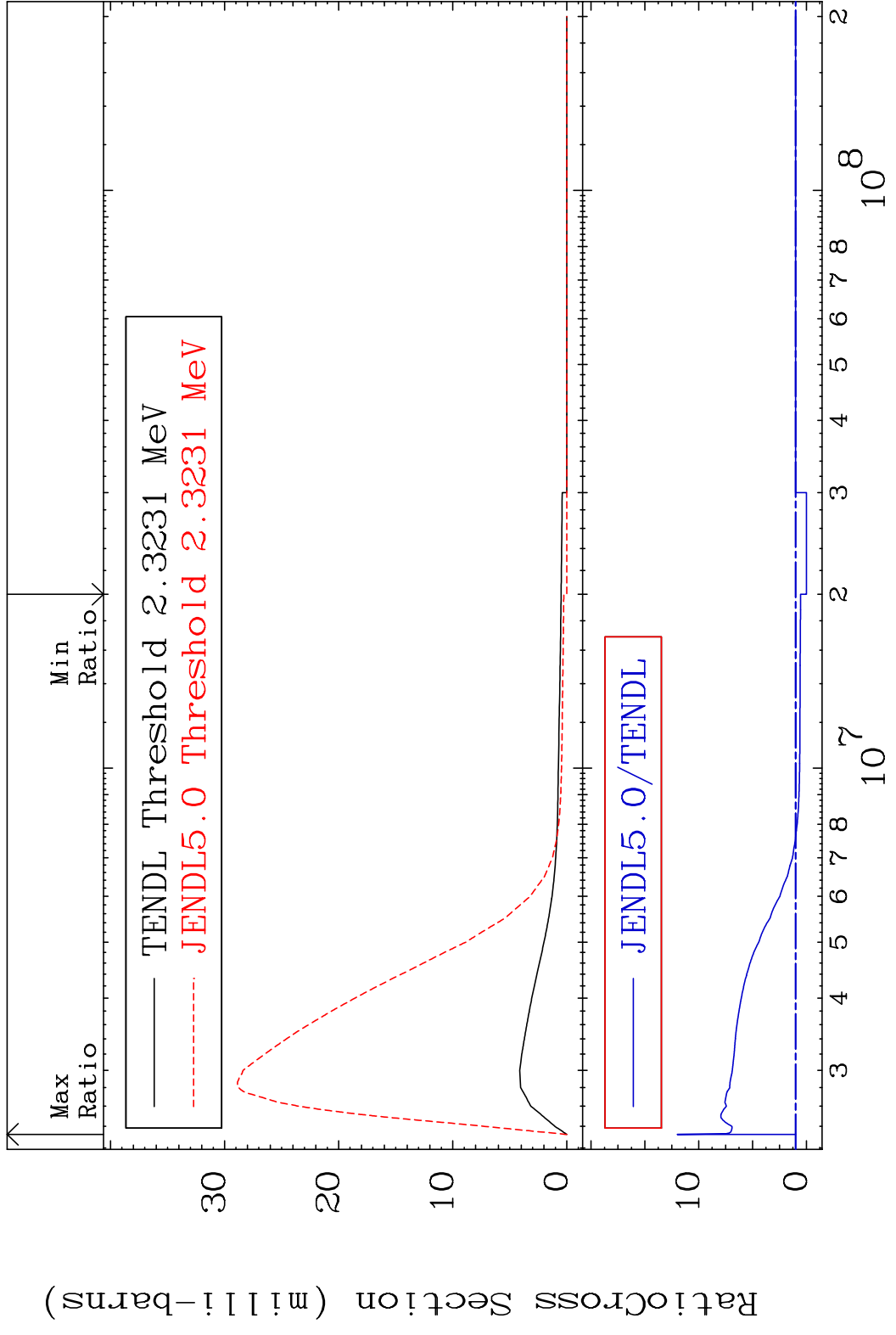
MAT 4022 MT= 70 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 132.1 %



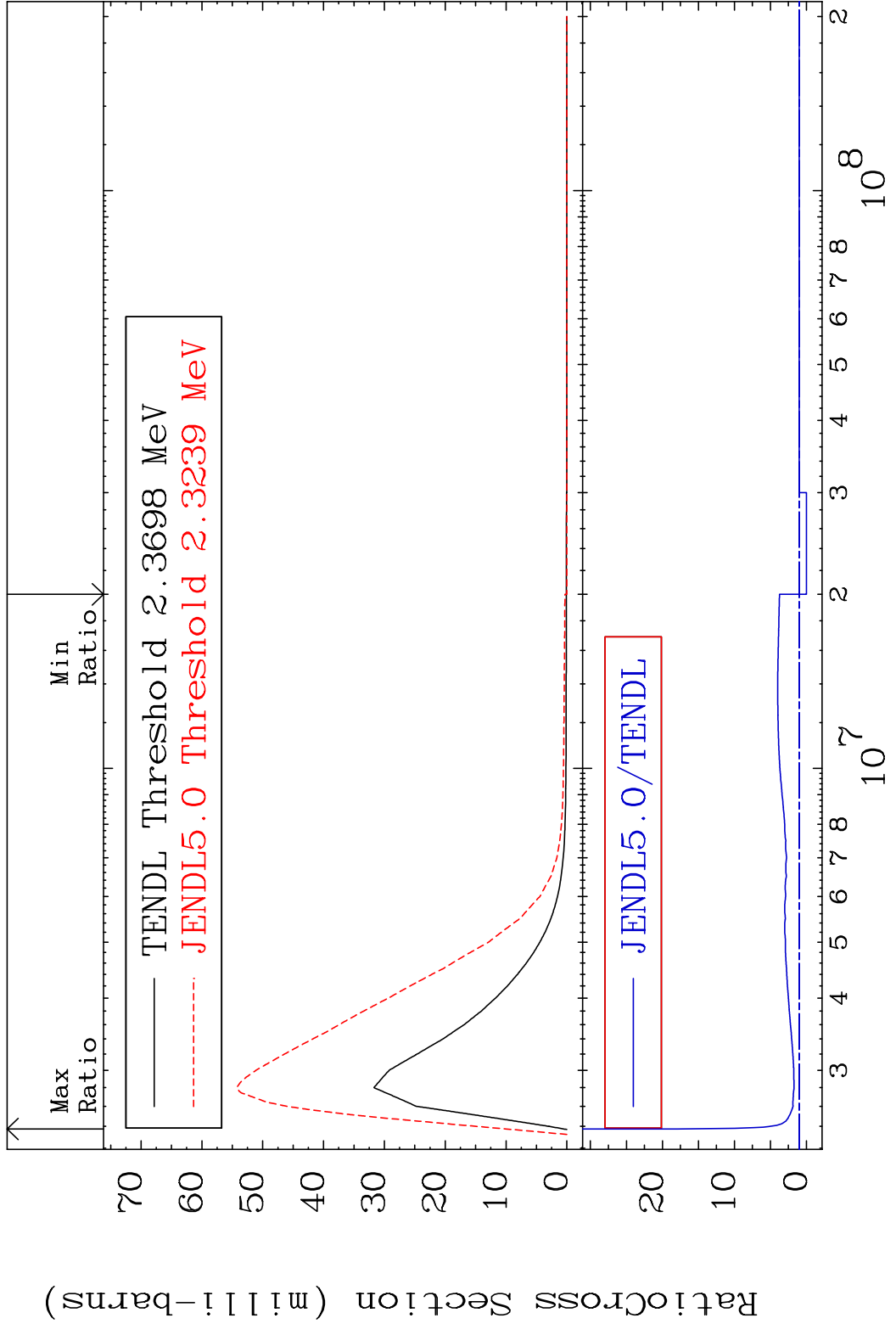
30

Incident Energy (eV) 40-Zr-89

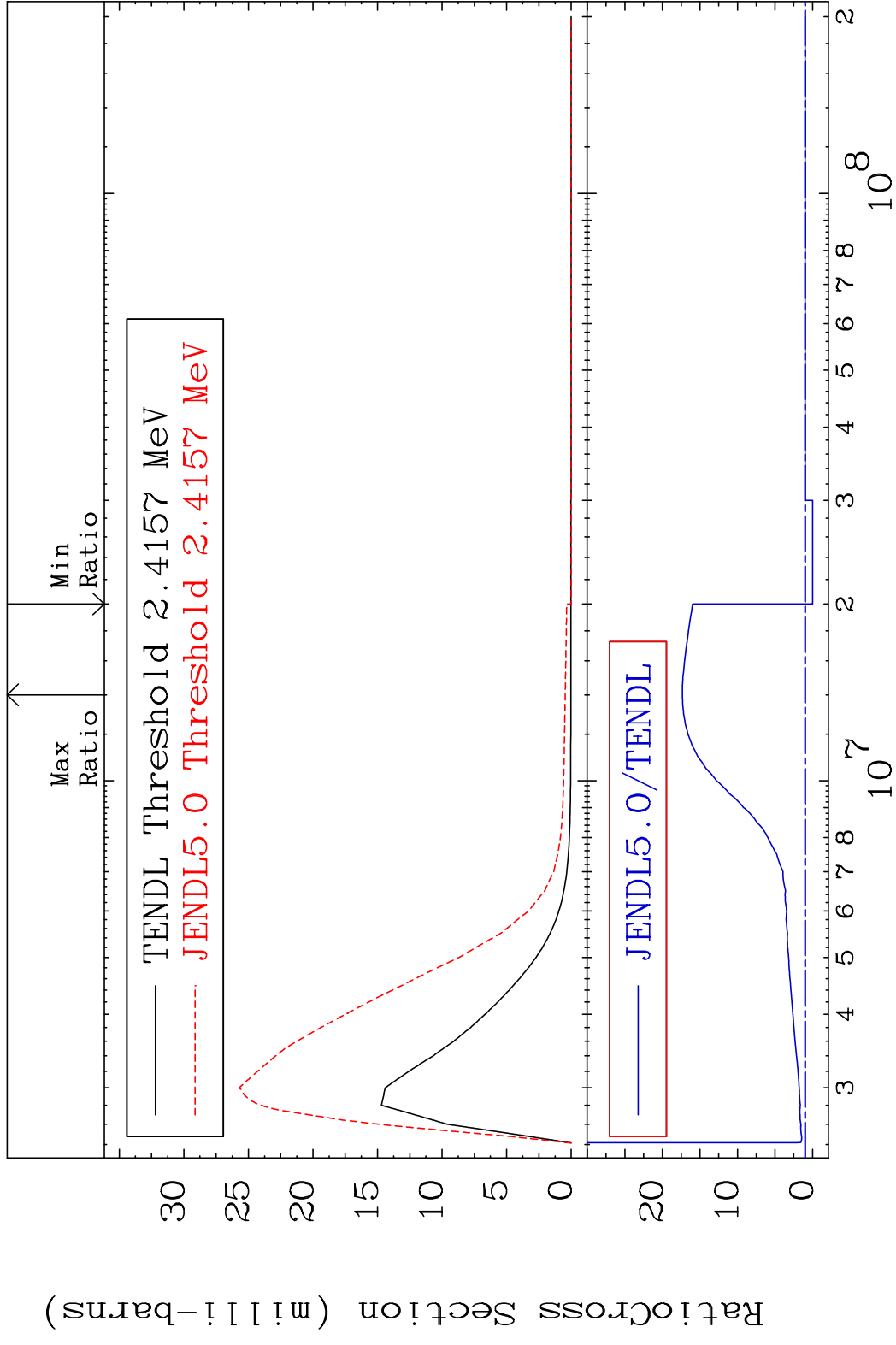
MAT 4022 MT= 71 (n,n') Level 40-Zr-89
 Cross Section -100.0 To 1100. %



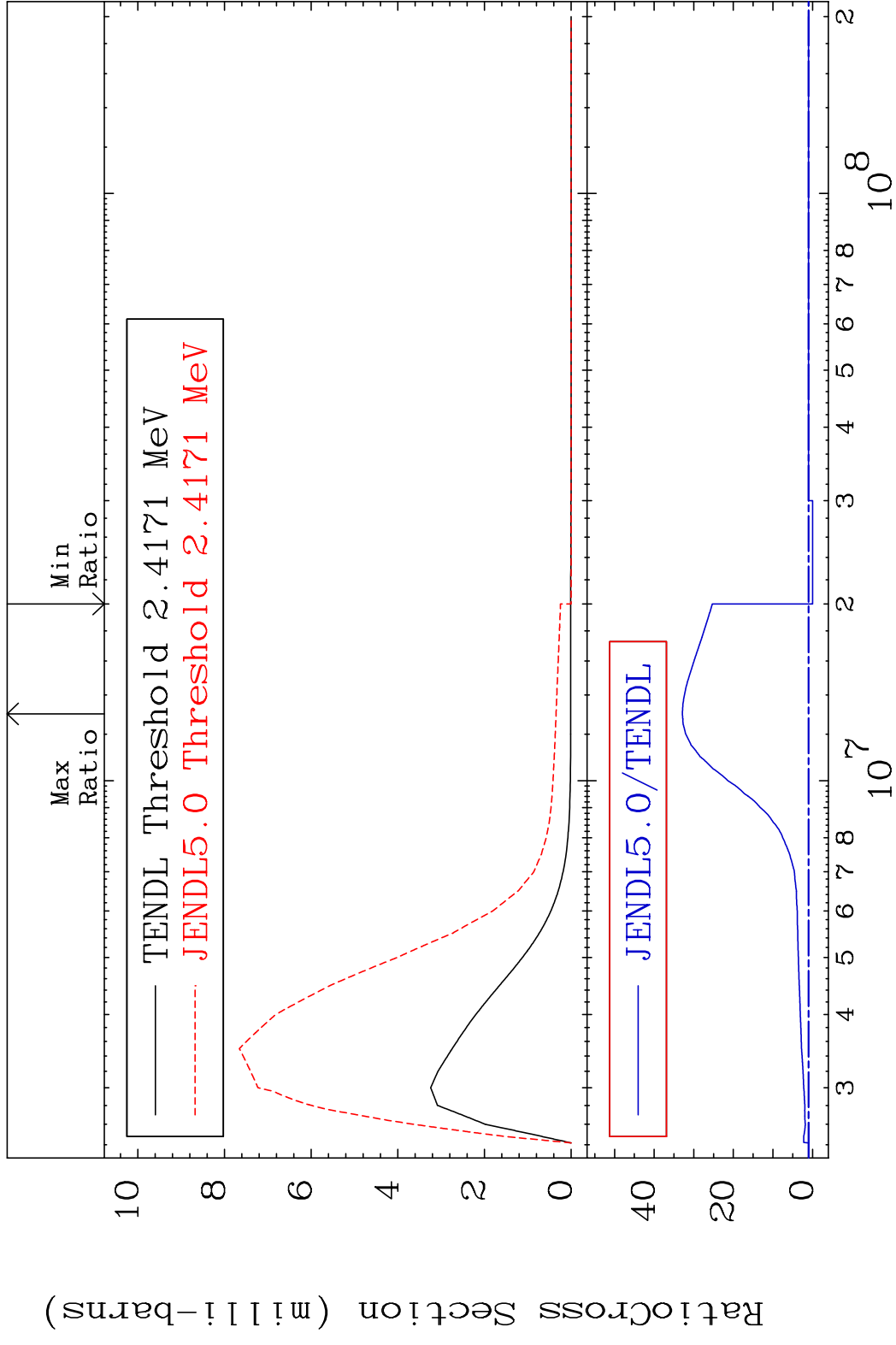
MAT 4022 MT= 72 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 1695. %



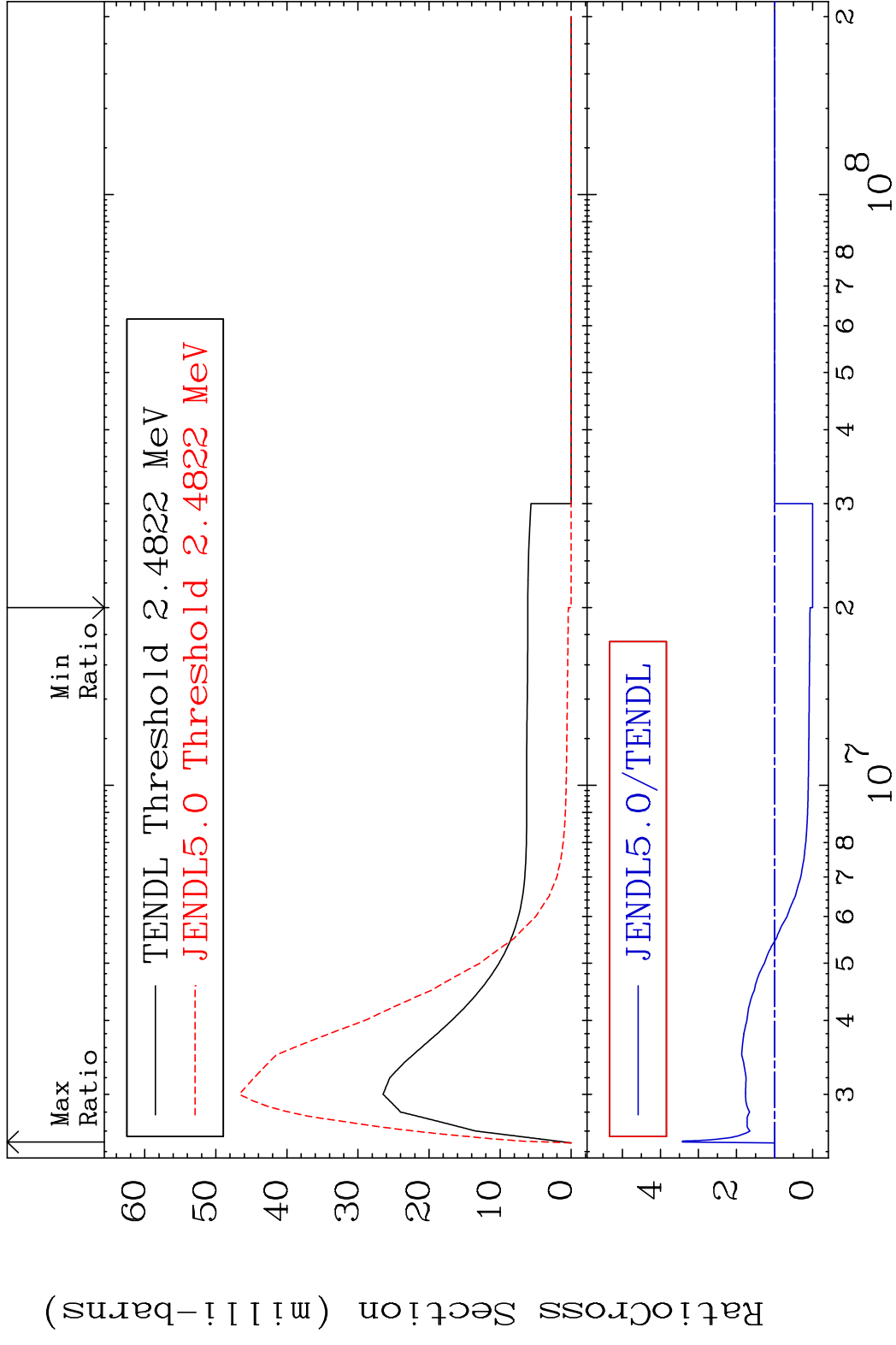
MAT 4022 MT= 73 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 1634. %



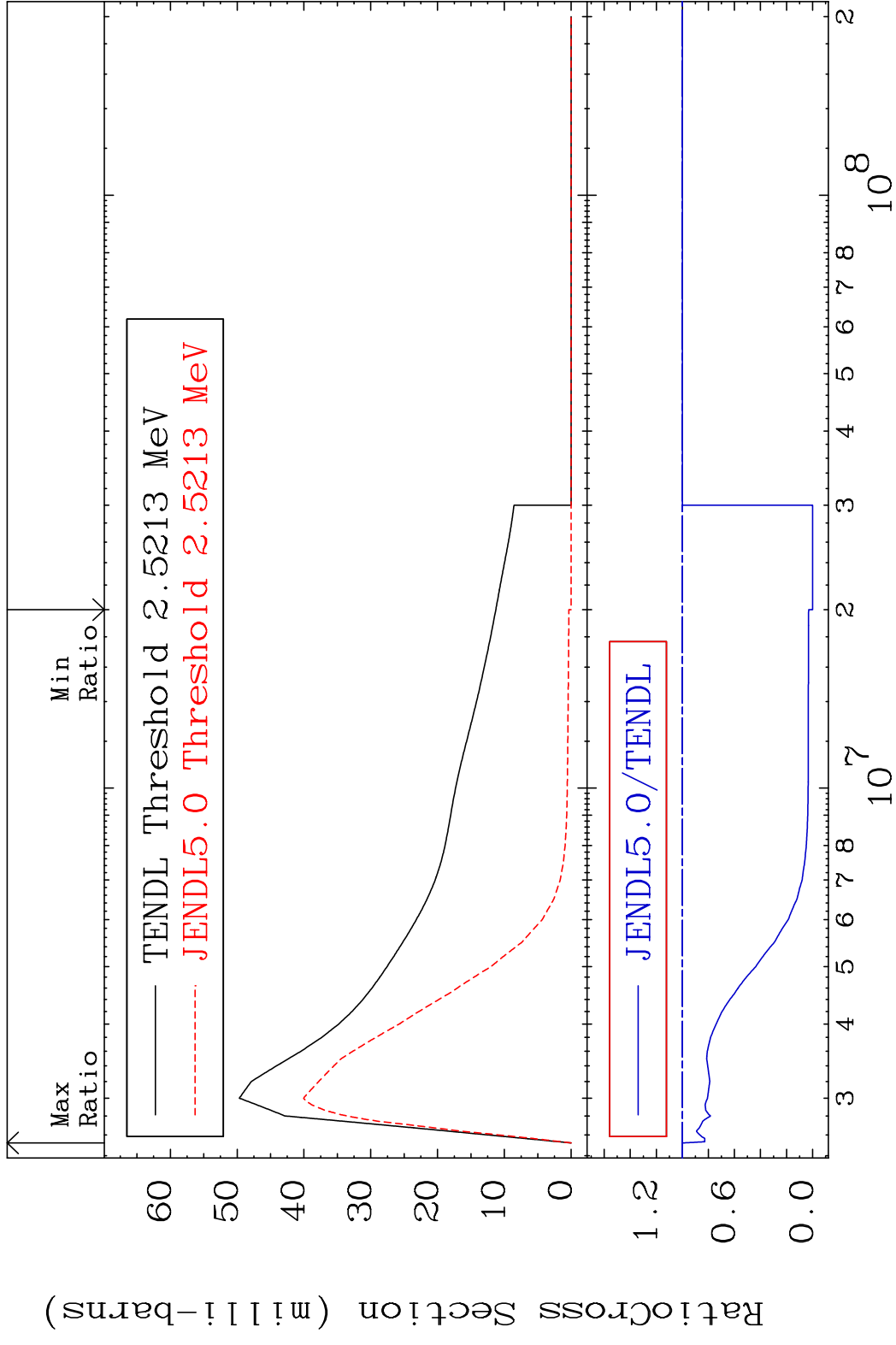
MAT 4022 MT= 74 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 3188. %



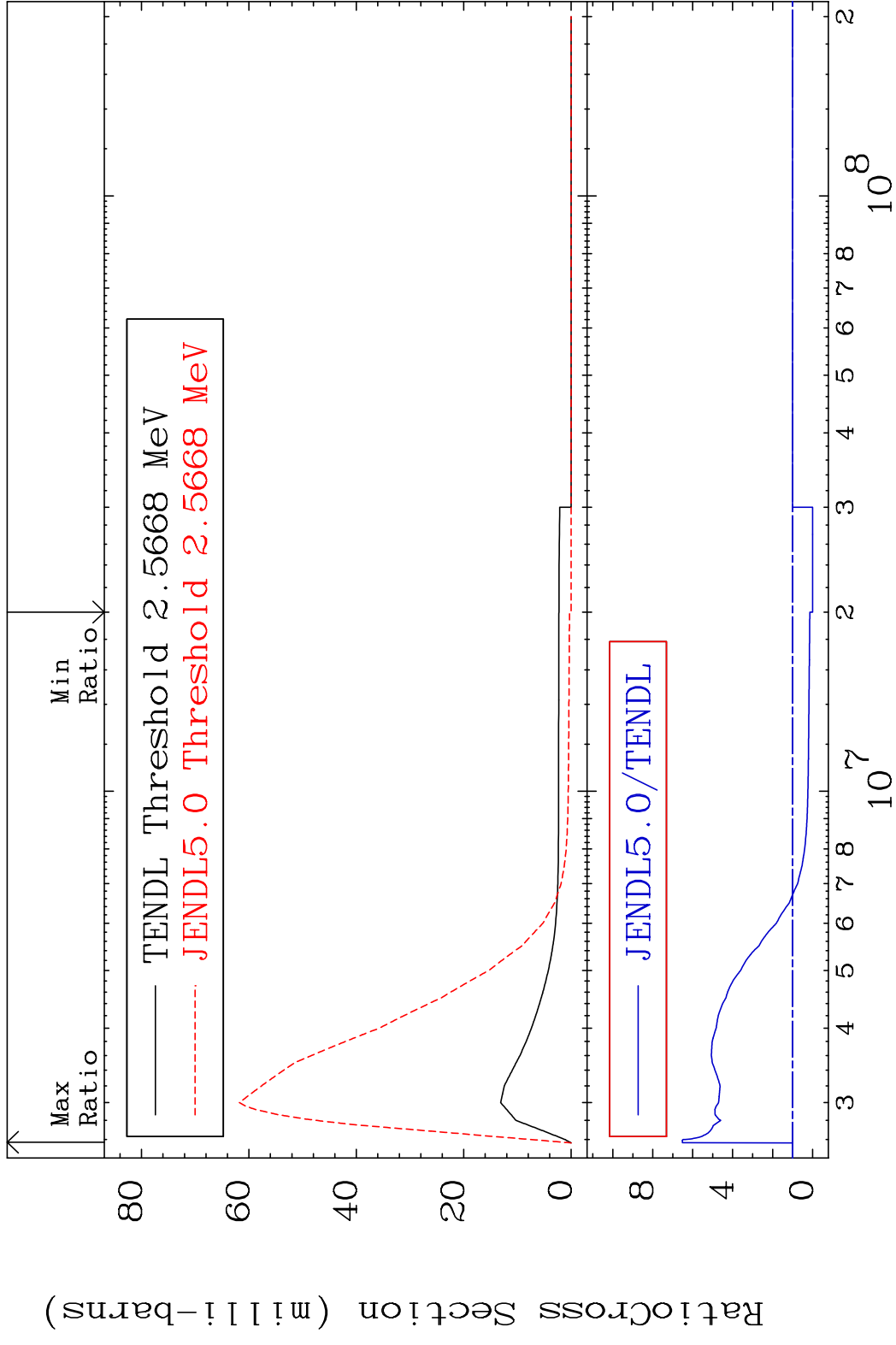
MAT 4022 MT= 75 (n,n') Level 40-Zr-89
 Cross Section -100.0 To 242.3 %



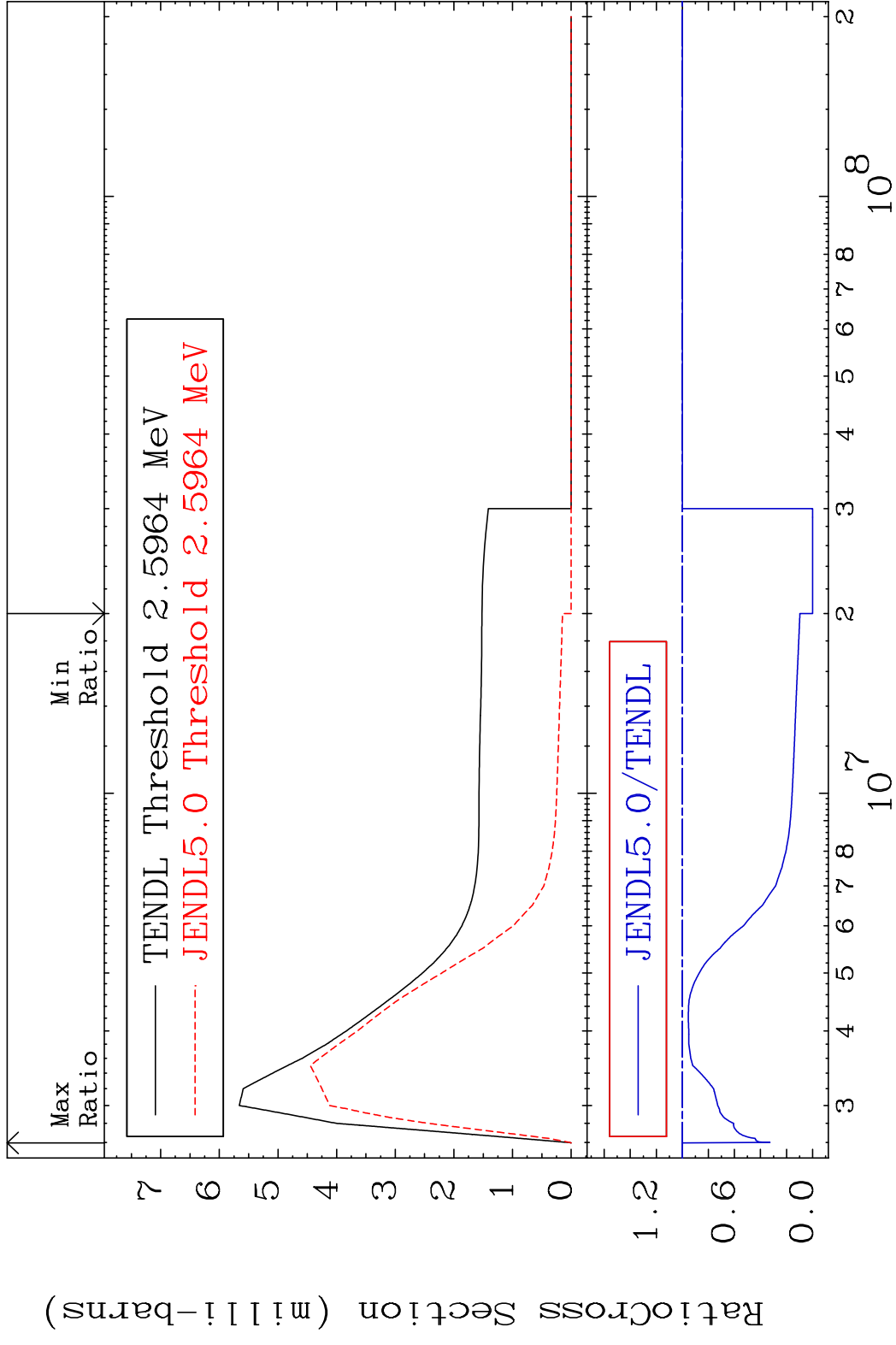
MAT 4022 MT= 76 (n,n') Level 40-Zr-89
 Cross Section -100.0 To 0.000 %



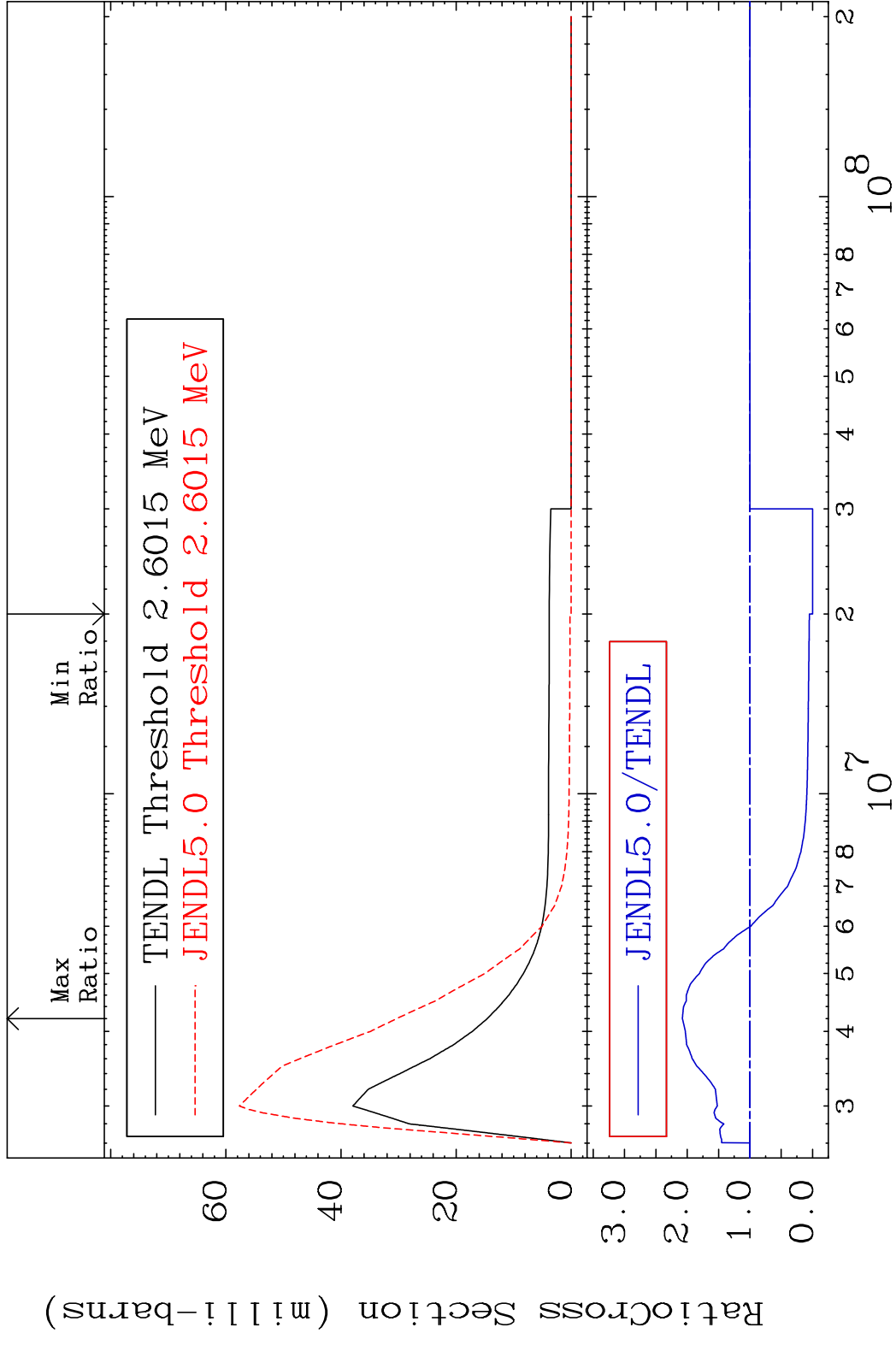
MAT 4022 MT= 77 (n,n') Level 40-Zr-89
 Cross Section -100.0 To 551.9 %



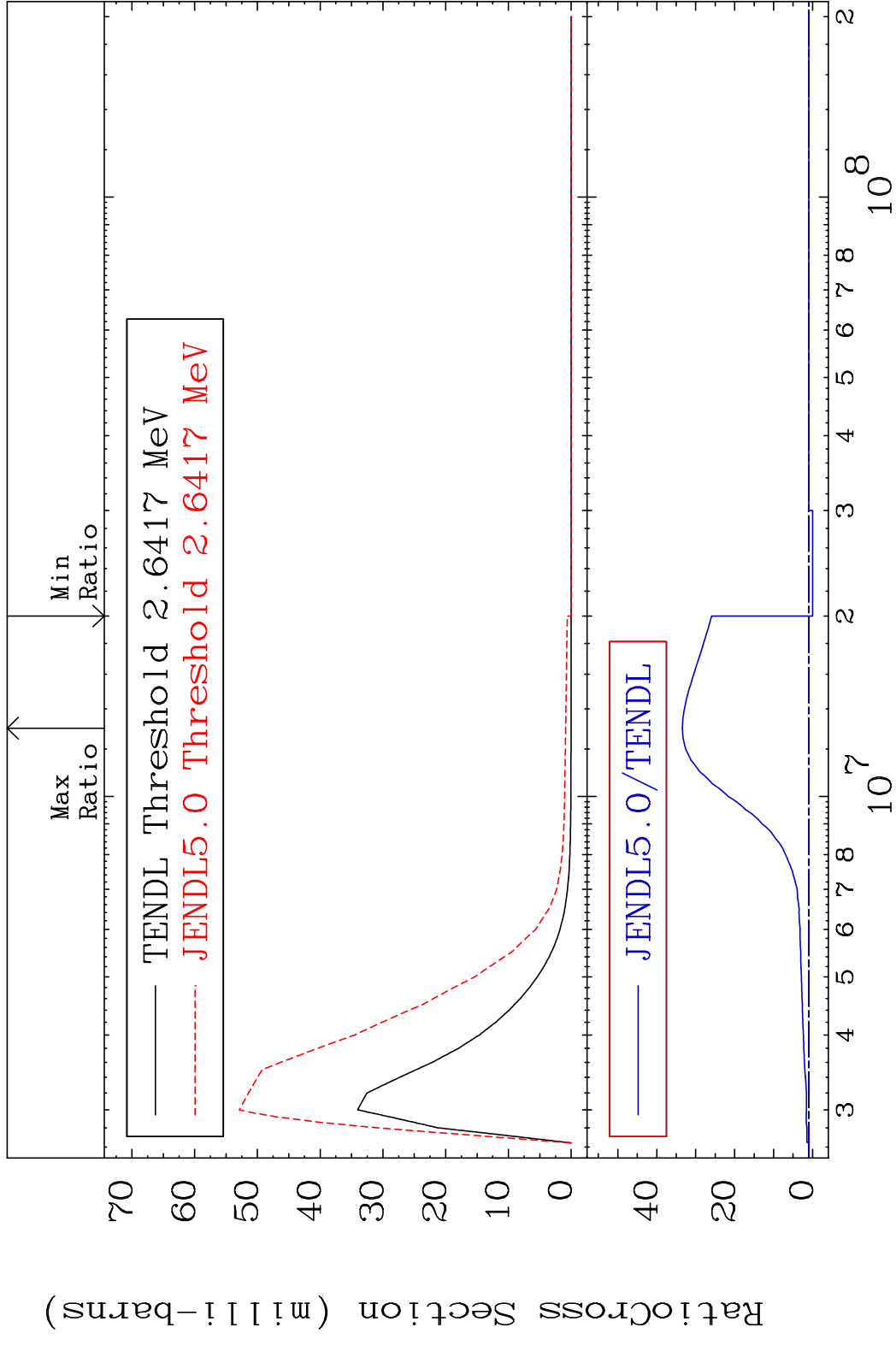
MAT 4022 MT= 78 (n,n') Level 40-Zr-89
 Cross Section -100.0 To 0.000 %



MAT 4022 MT= 79 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 107.7 %

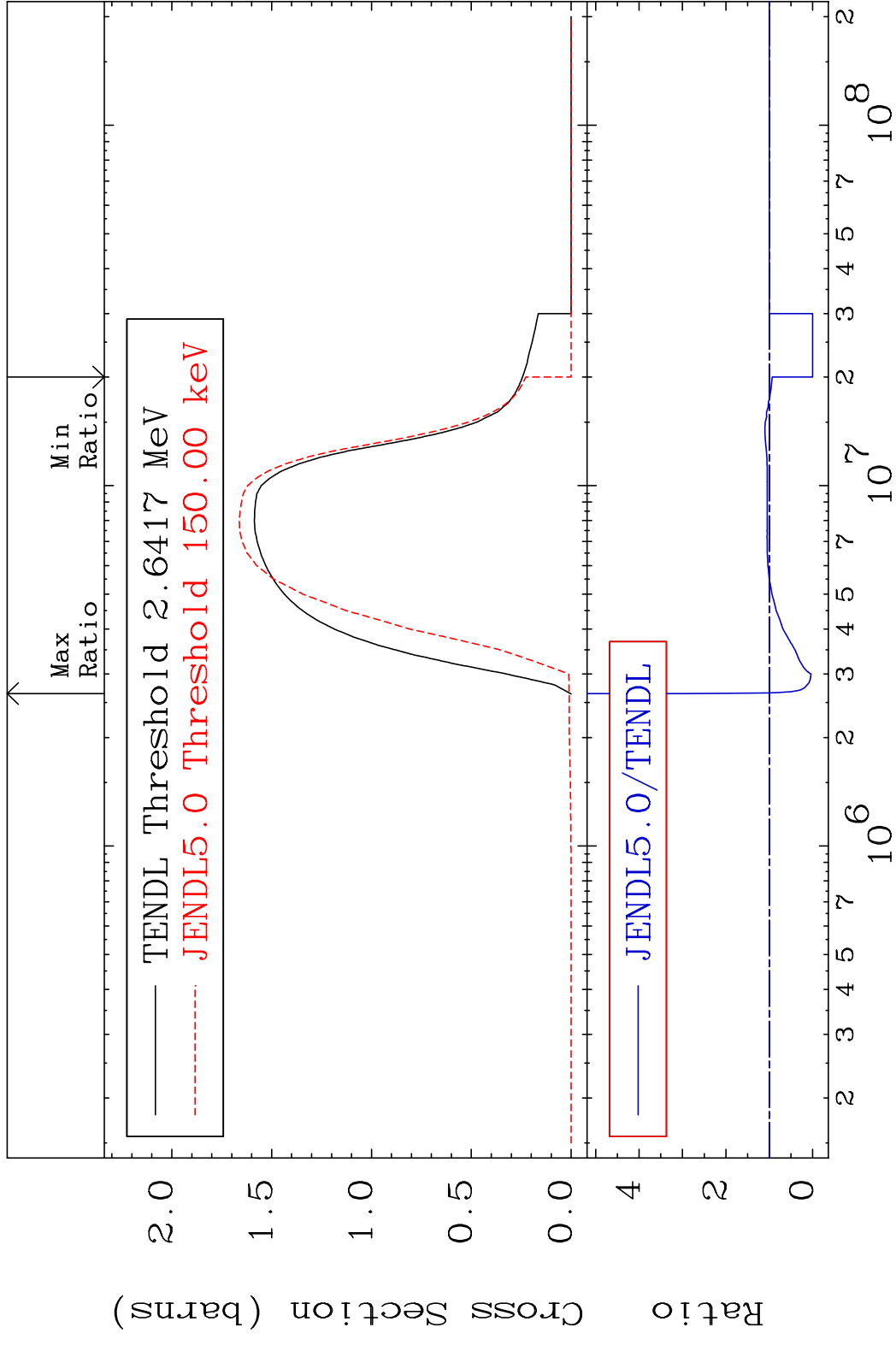


MAT 4022 MT= 80 (n, n') Level 40-Zr-89
 Cross Section -100.0 To 3242. %



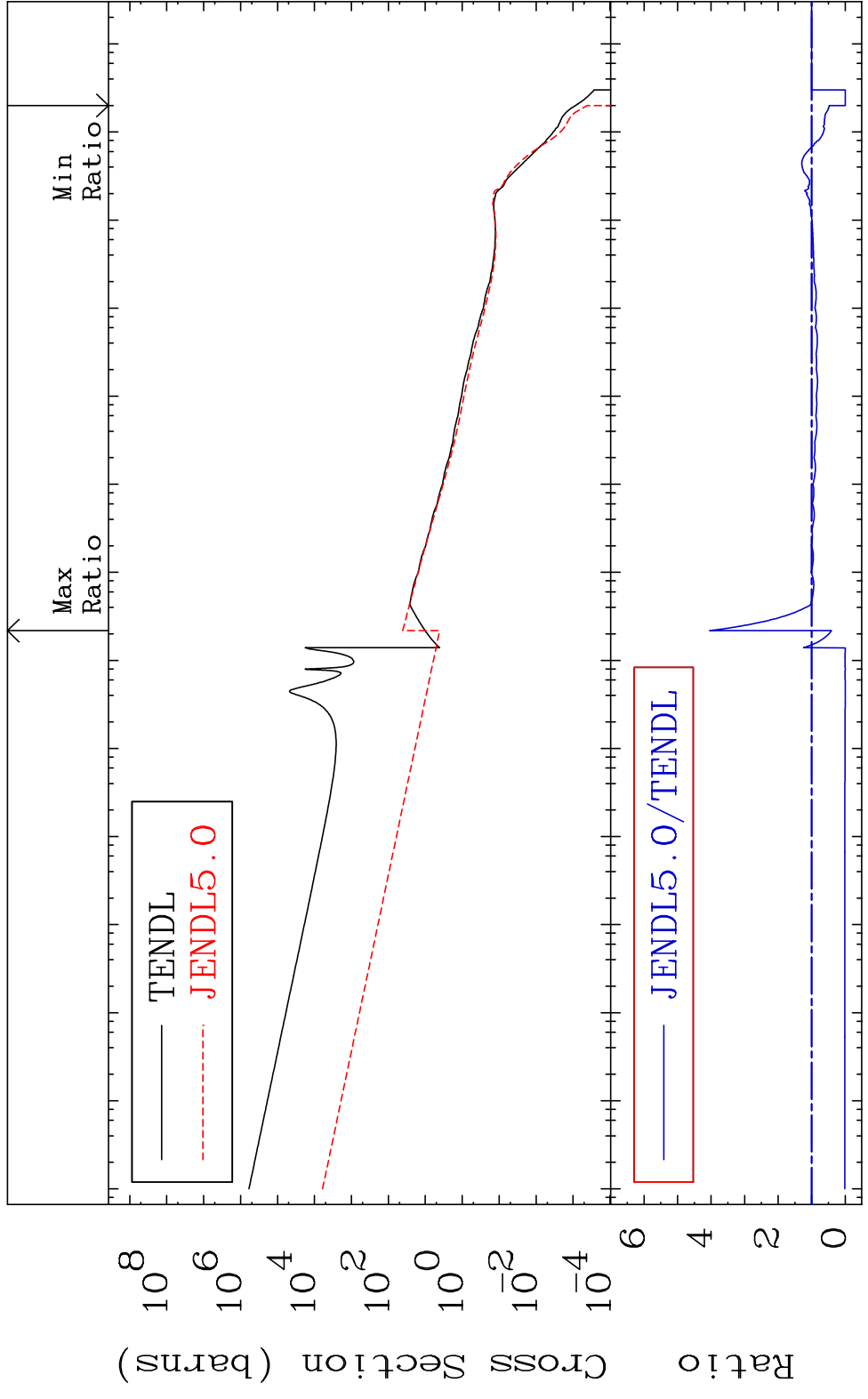
40 Incident Energy (eV) 40-Zr-89

MAT 4022 (n, n') Continuum 40-Zr-89
 Cross Section -100.0 To 200.3 %



MAT 4022

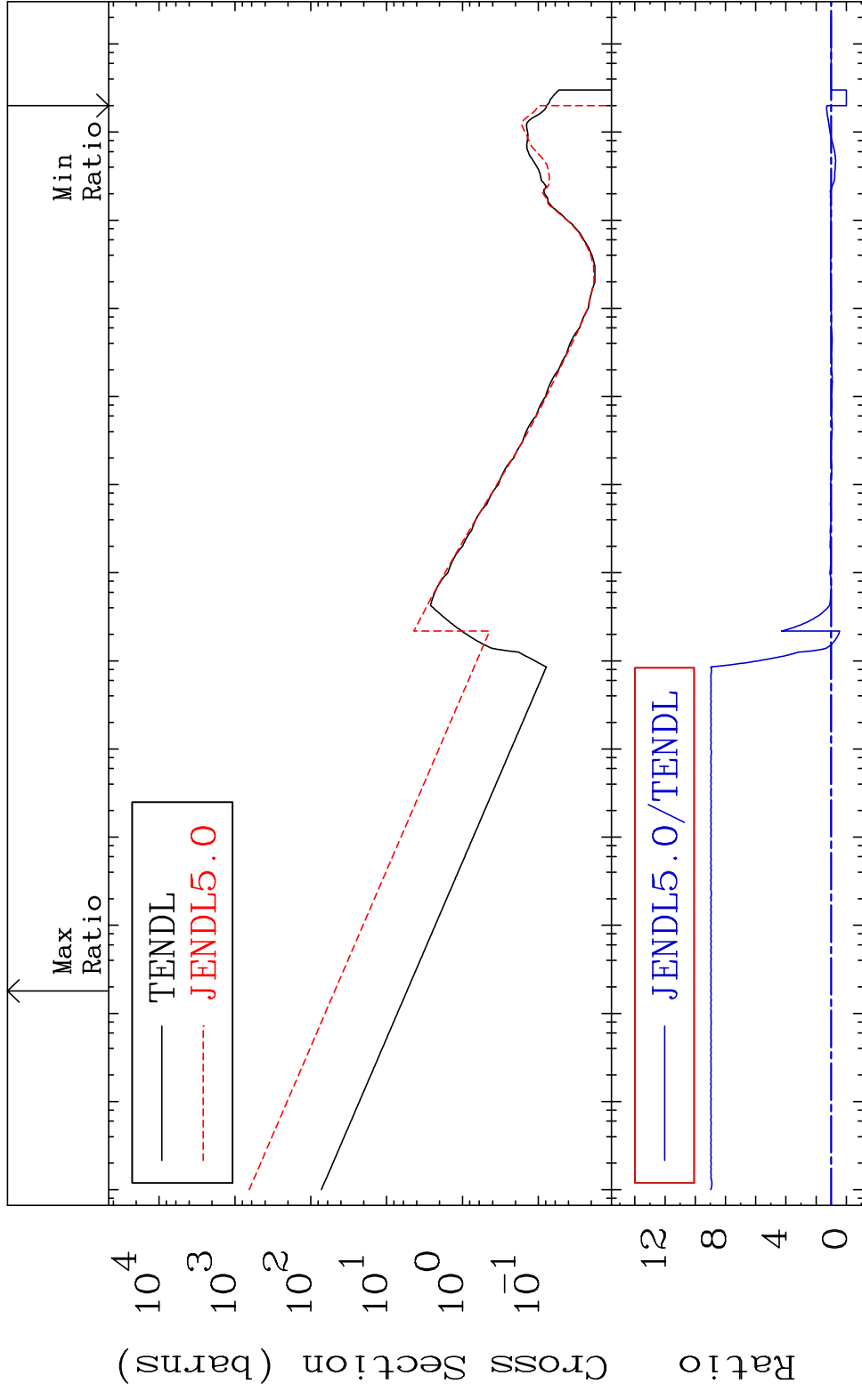
(n, γ)
Cross Section -100.0 To 304.0 %
40-Zr-89



42

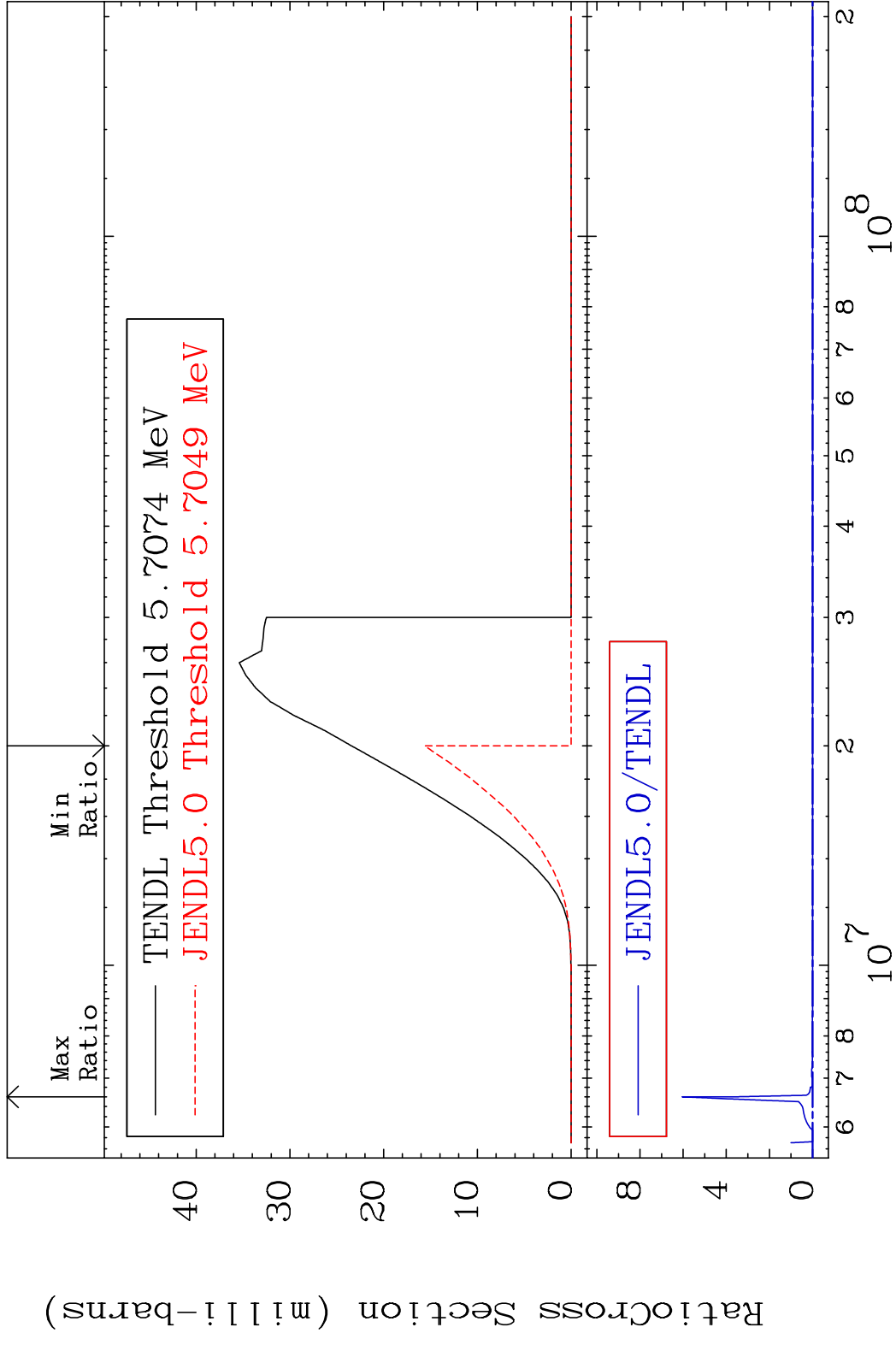
Incident Energy (eV) 40-Zr-89

MAT 4022 (n,p) Cross Section -100.0 To 797.7 % 40-Zr-89



43 Incident Energy (eV) 40-Zr-89

MAT 4022 (n,d) 40-Zr-89
 Cross Section -100.0 To 9999. %



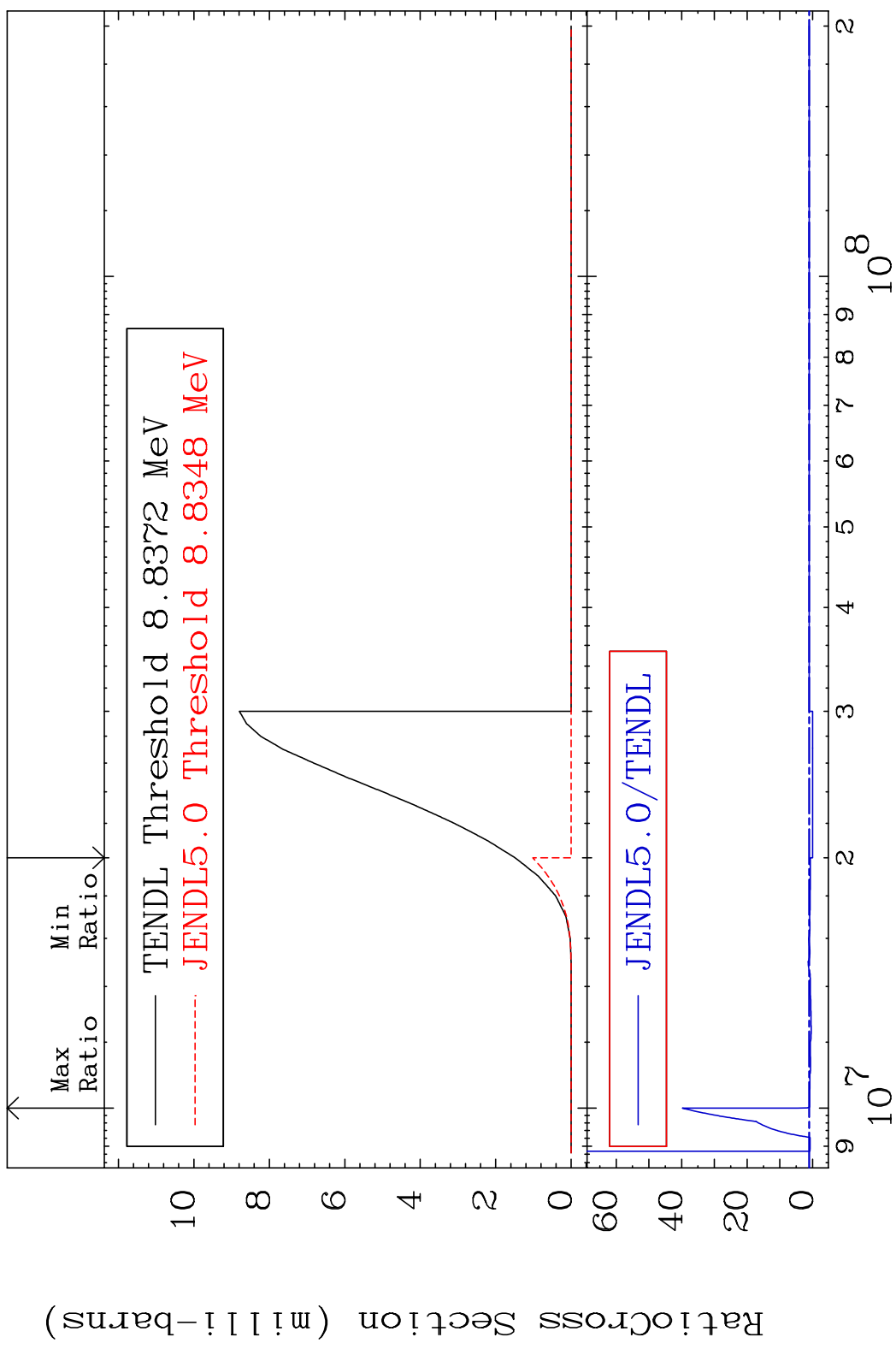
44 40-Zr-89

MAT 4022

(n, t)

40-Zr-89

Cross Section -100.0 To 3878. %



45

Incident Energy (eV)

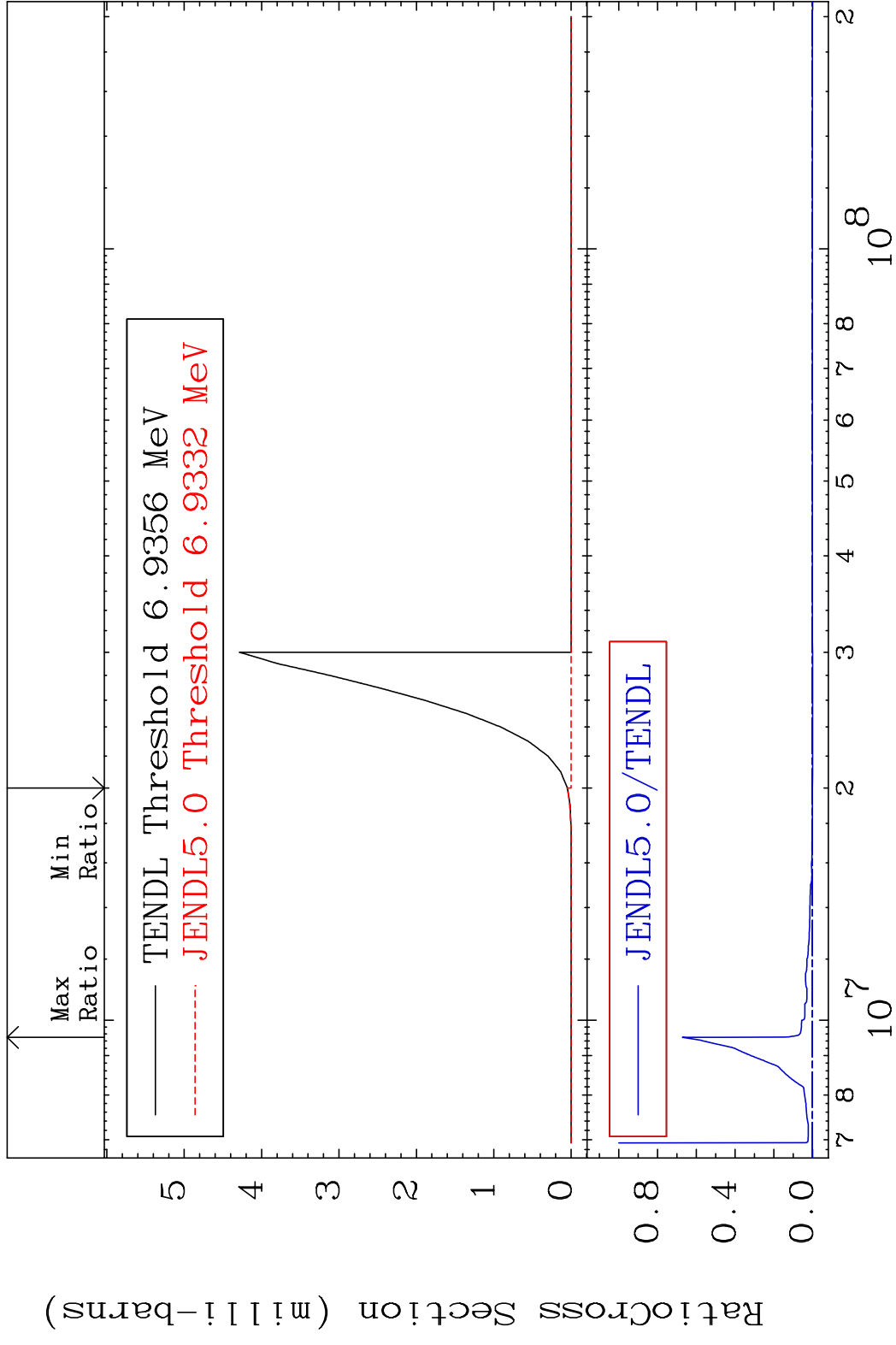
40-Zr-89

MAT 4022

(n, He-3)

40-Zr-89

Cross Section -100.0 To 9999. %

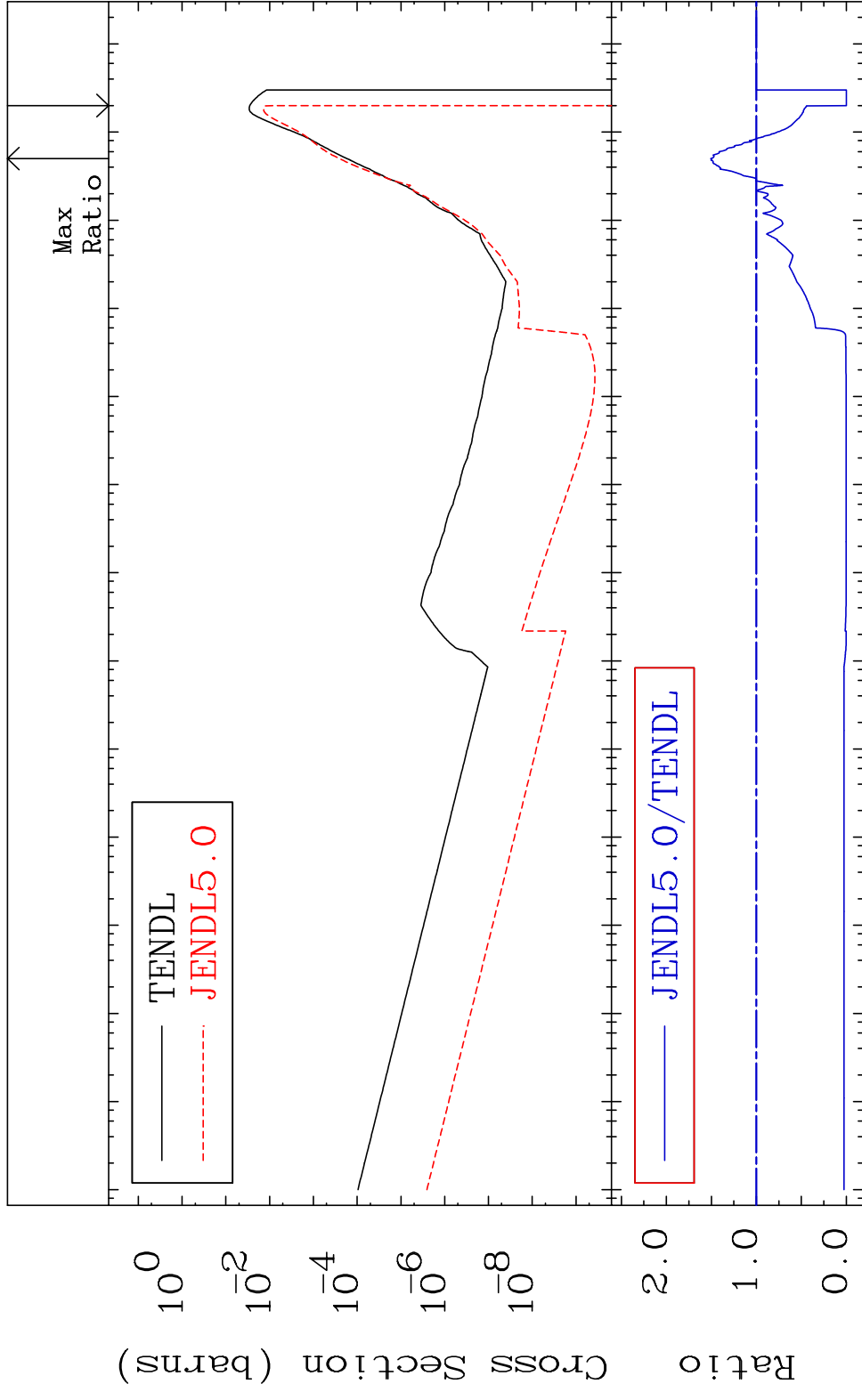


46

Incident Energy (eV)

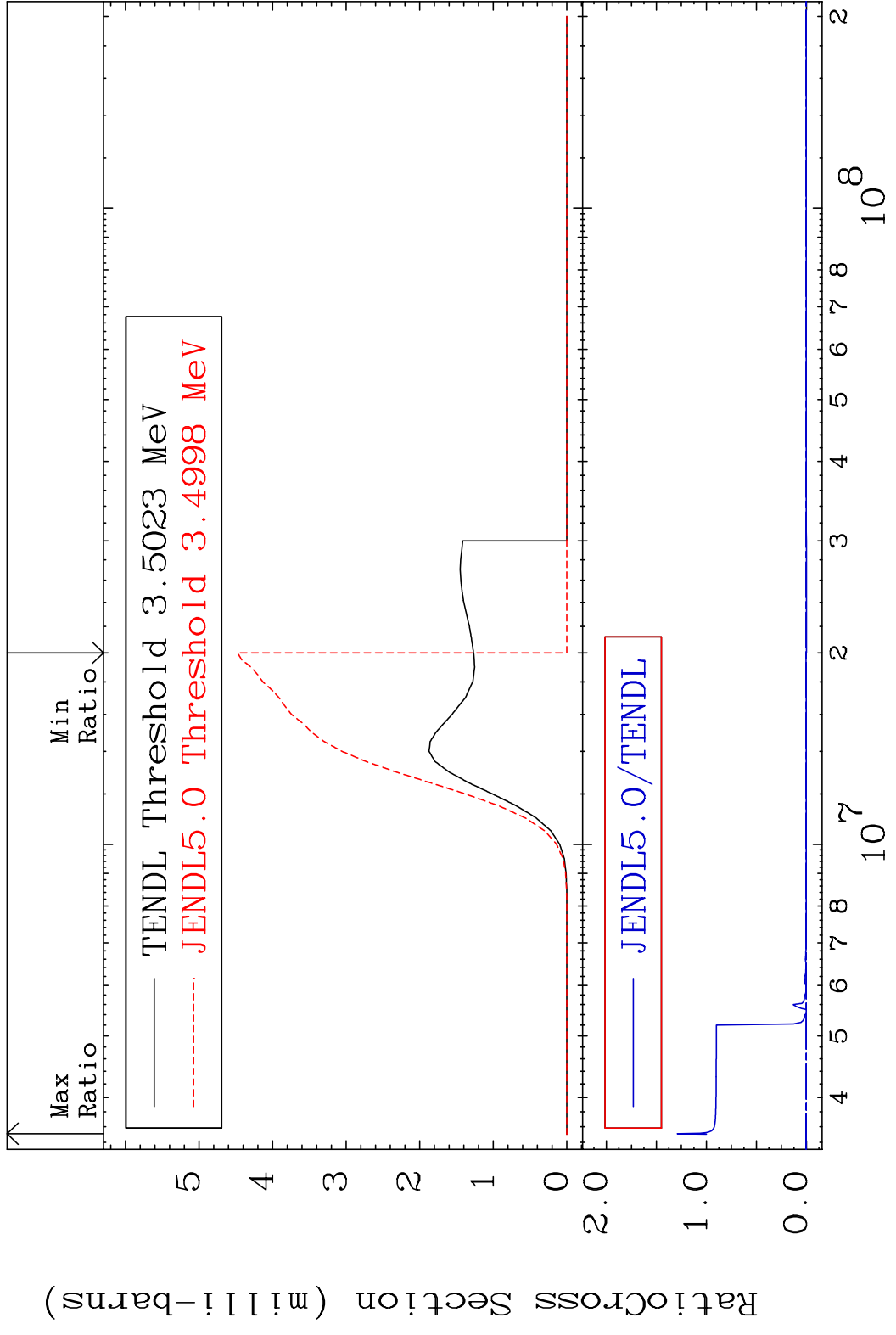
40-Zr-89

MAT 4022 (n, α) Cross Section -100.0 To 50.70 % 40-Zr-89

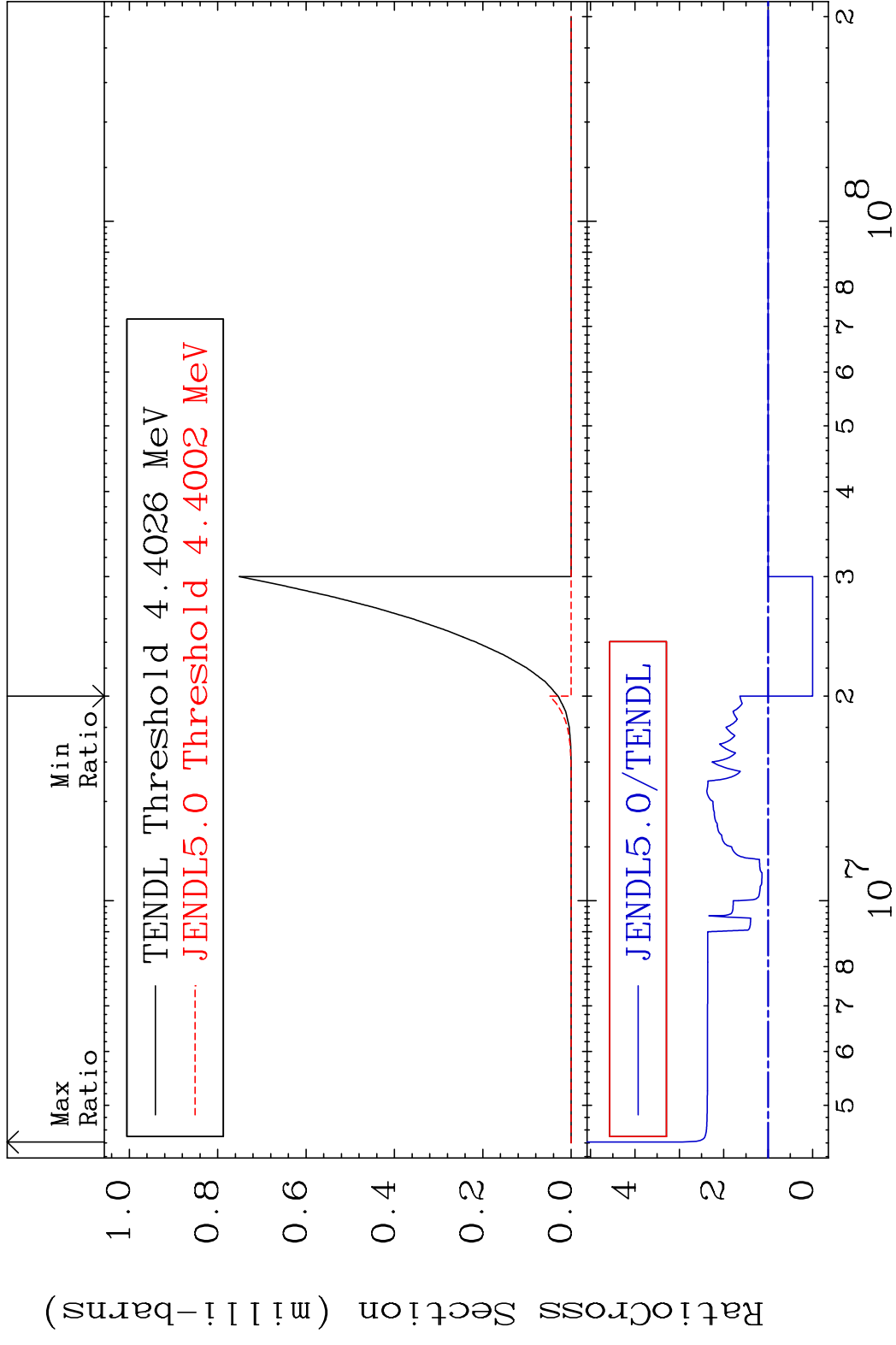


47 Incident Energy (eV) 40-Zr-89

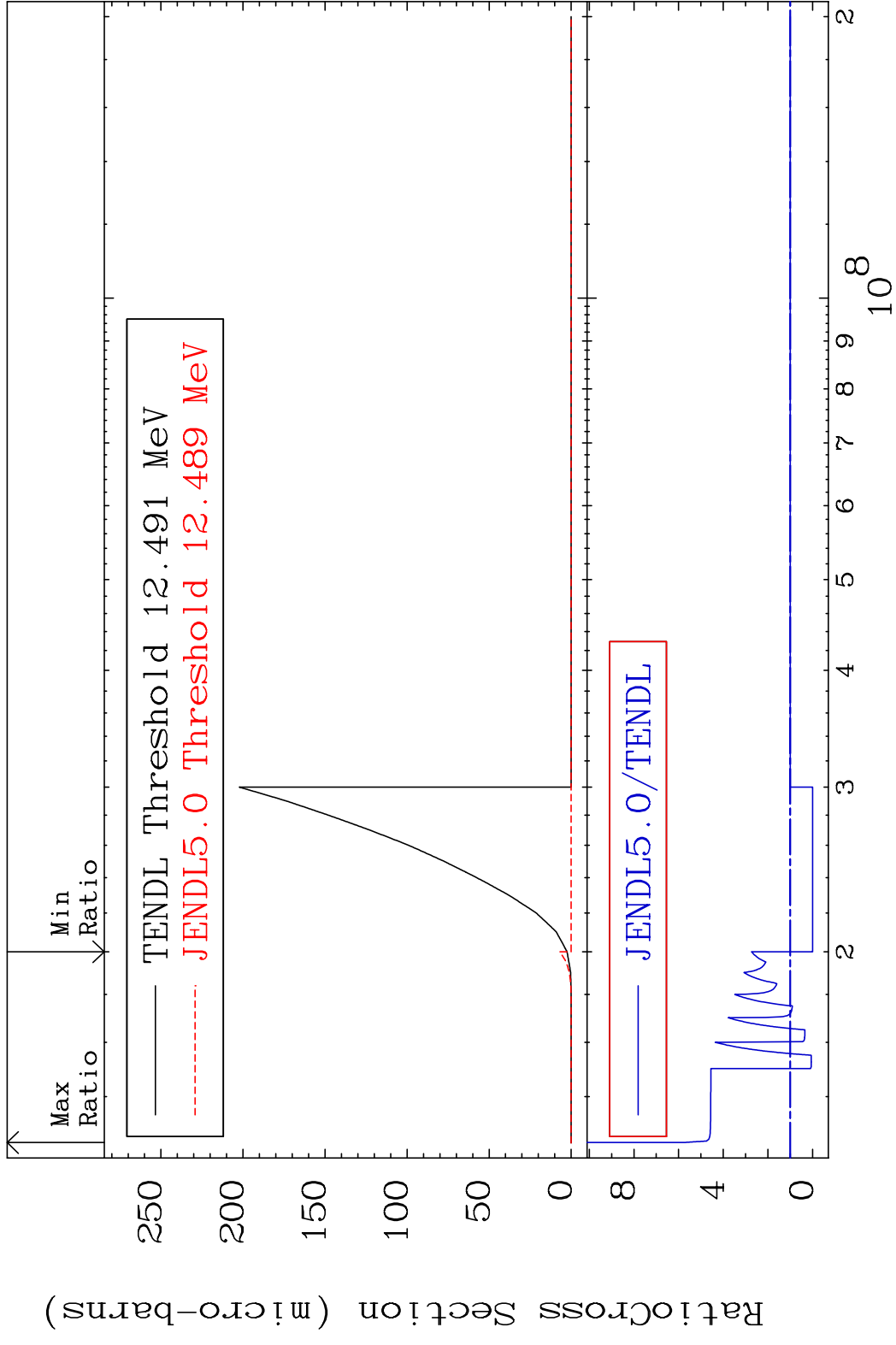
MAT 4022 (n,2p) 40-Zr-89
 Cross Section -100.0 To 9999. %



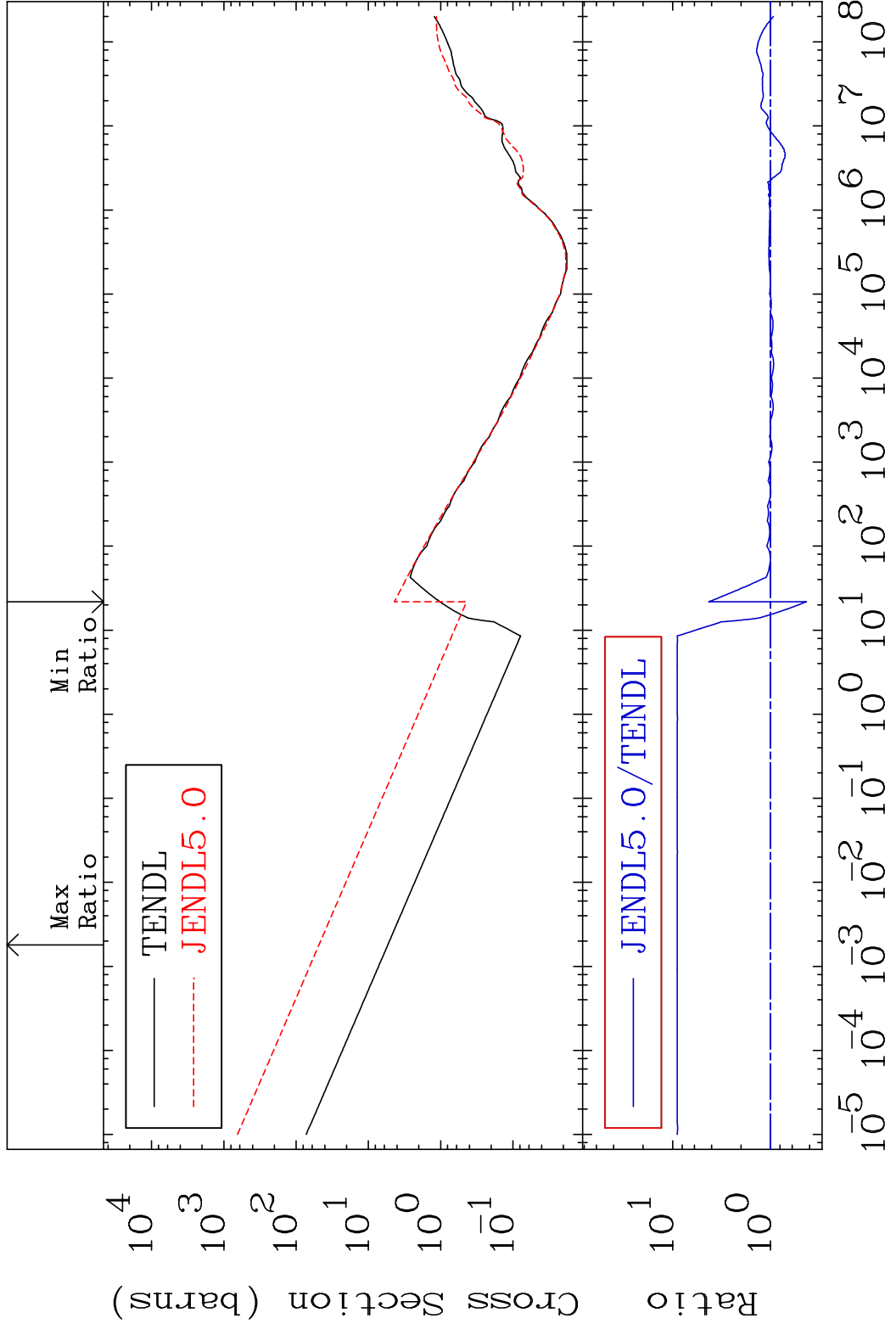
MAT 4022 (n,p) α 40-Zr-89
 Cross Section -100.0 To 193.2 %



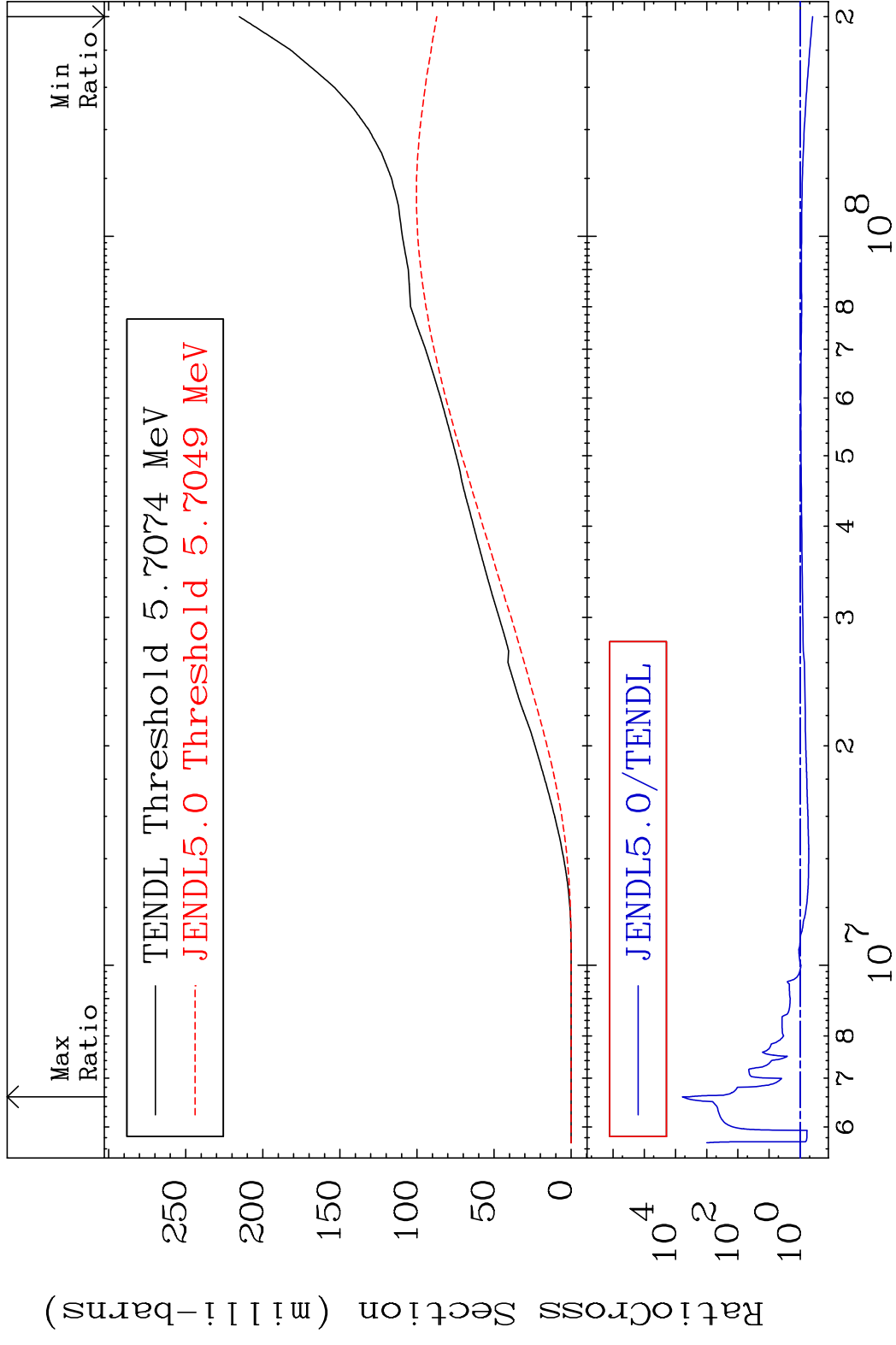
MAT 4022 (n,p) d 40-Zr-89
 Cross Section -100.0 To 483.1 %



MAT 4022 Hydrogen Production 40-Zr-89
 Cross Section -56.93 To 797.7 %



MAT 4022 Deuterium Production 40-Zr-89
 Cross Section -59.51 To 9999. %

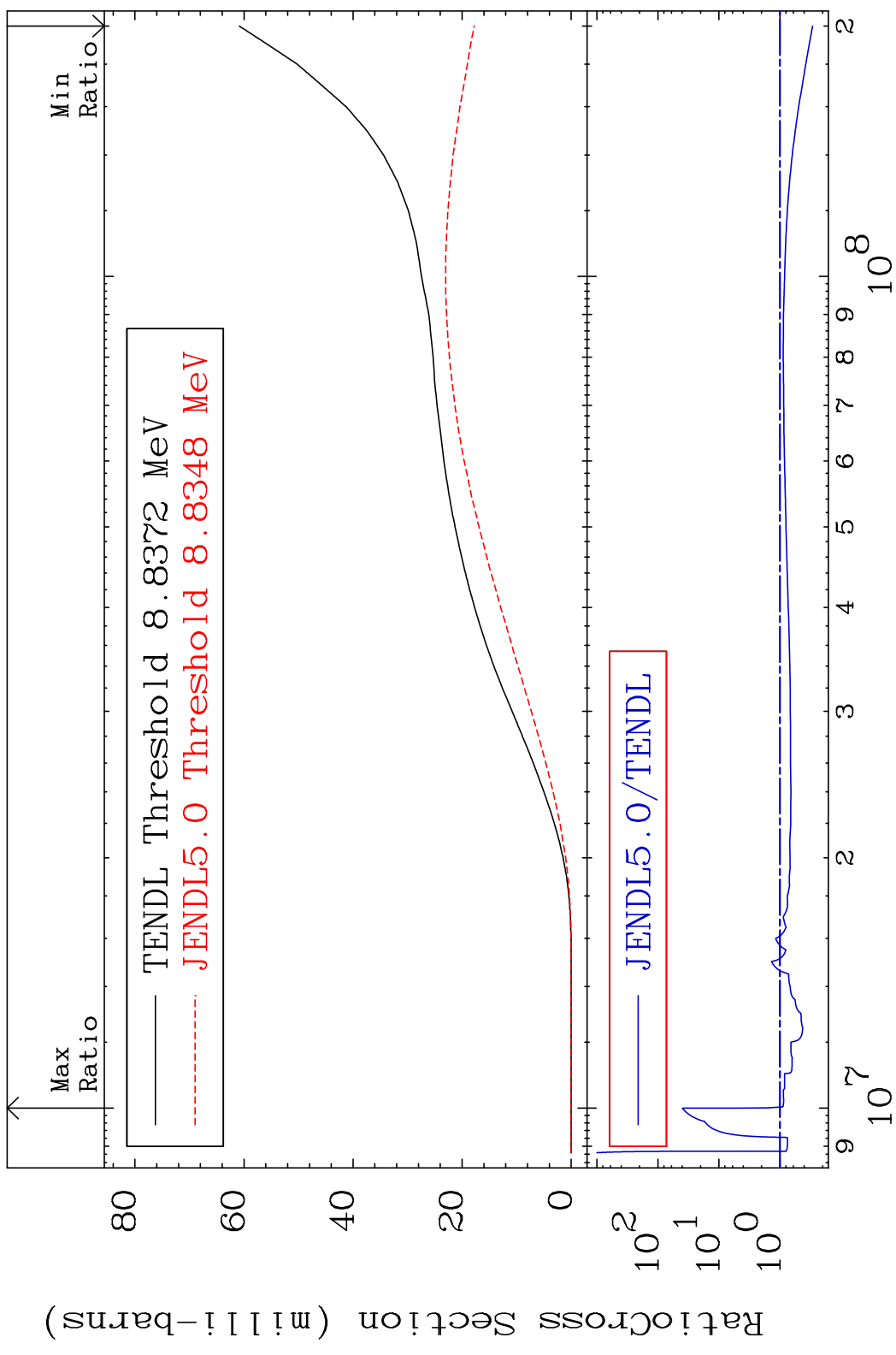


MAT 4022

Tritium Production

40-Zr-89

Cross Section -70.80 To 3878. %

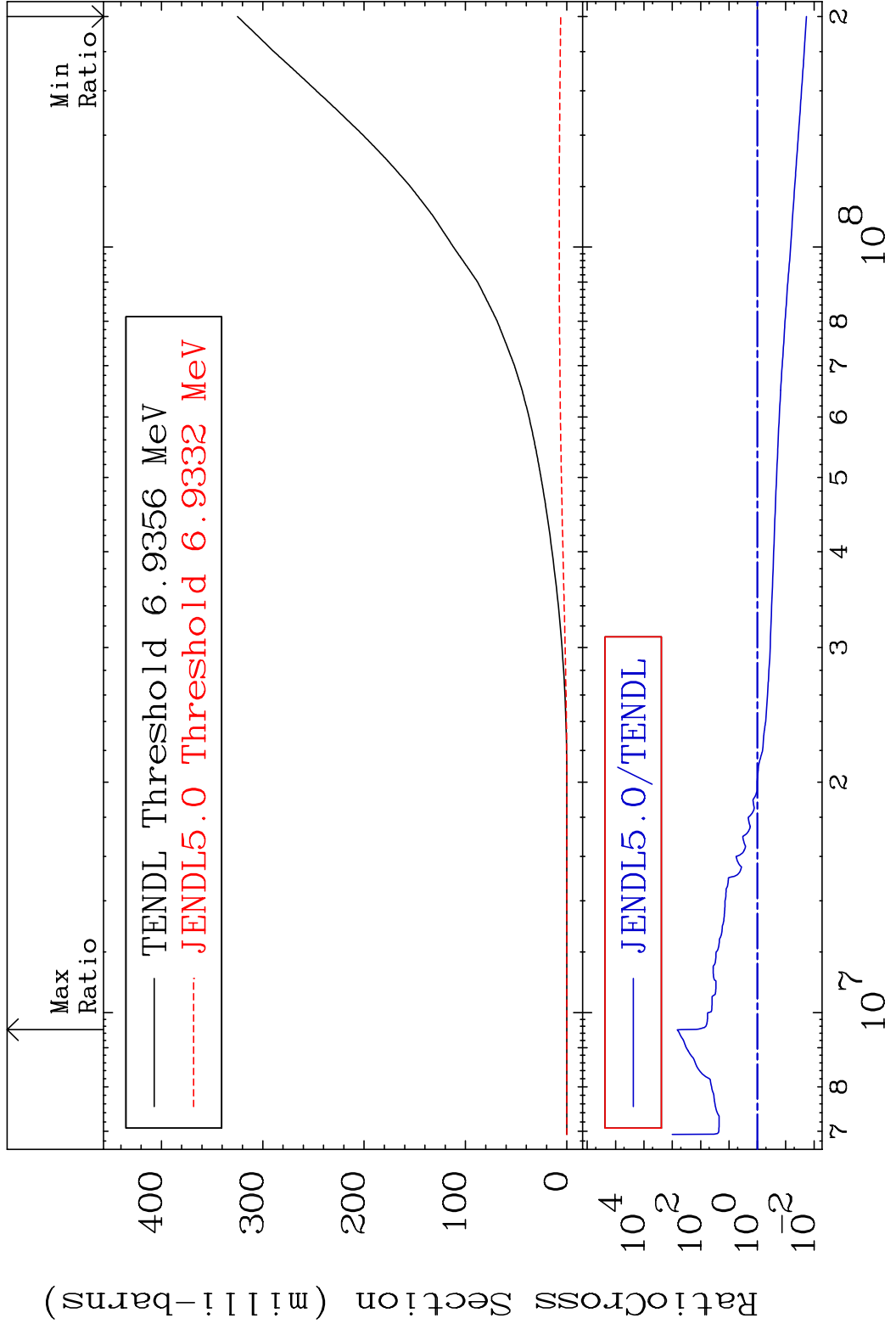


53

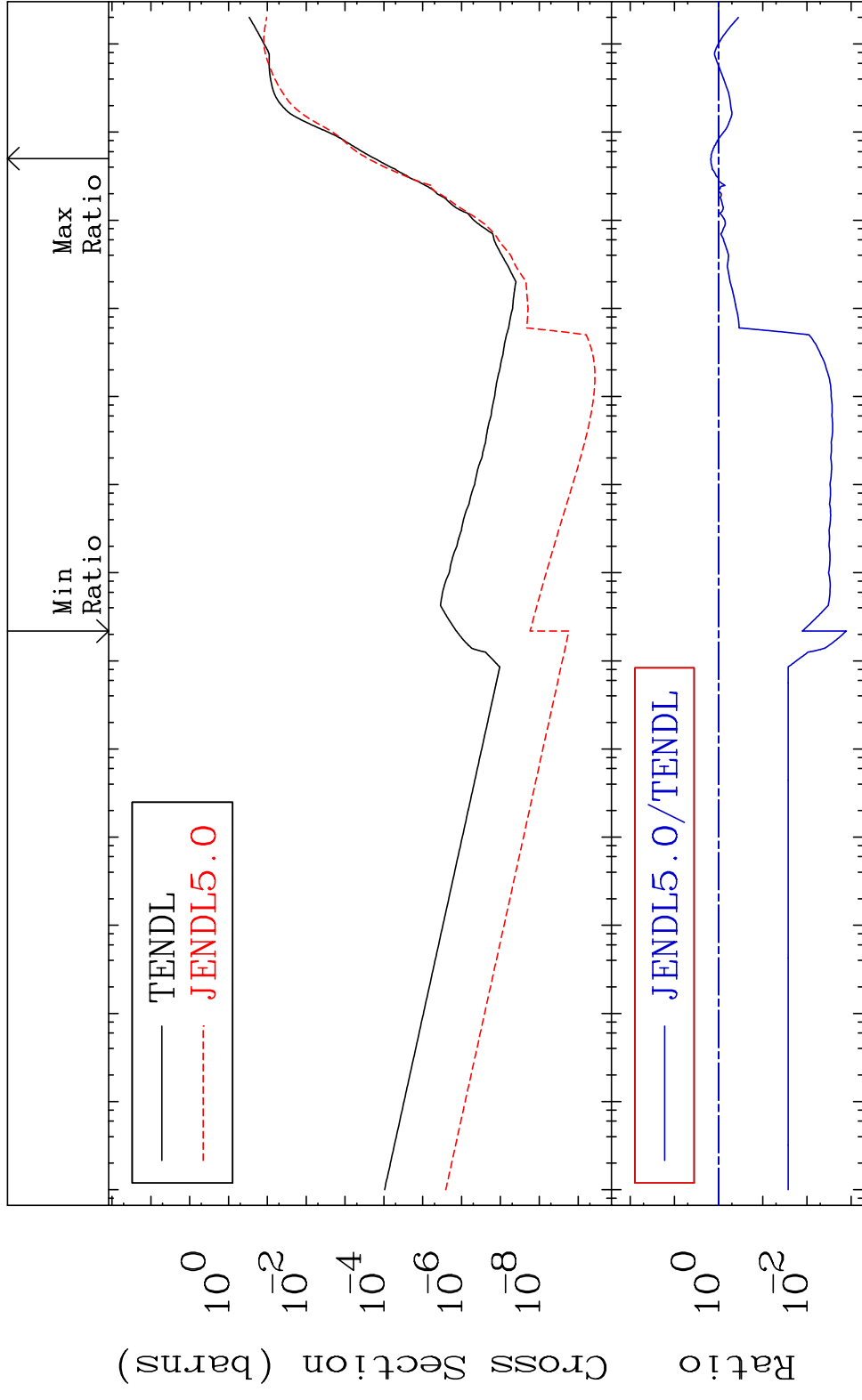
Incident Energy (eV)

40-Zr-89

MAT 4022 He-3 Production 40-Zr-89
 Cross Section -98.13 To 9999. %

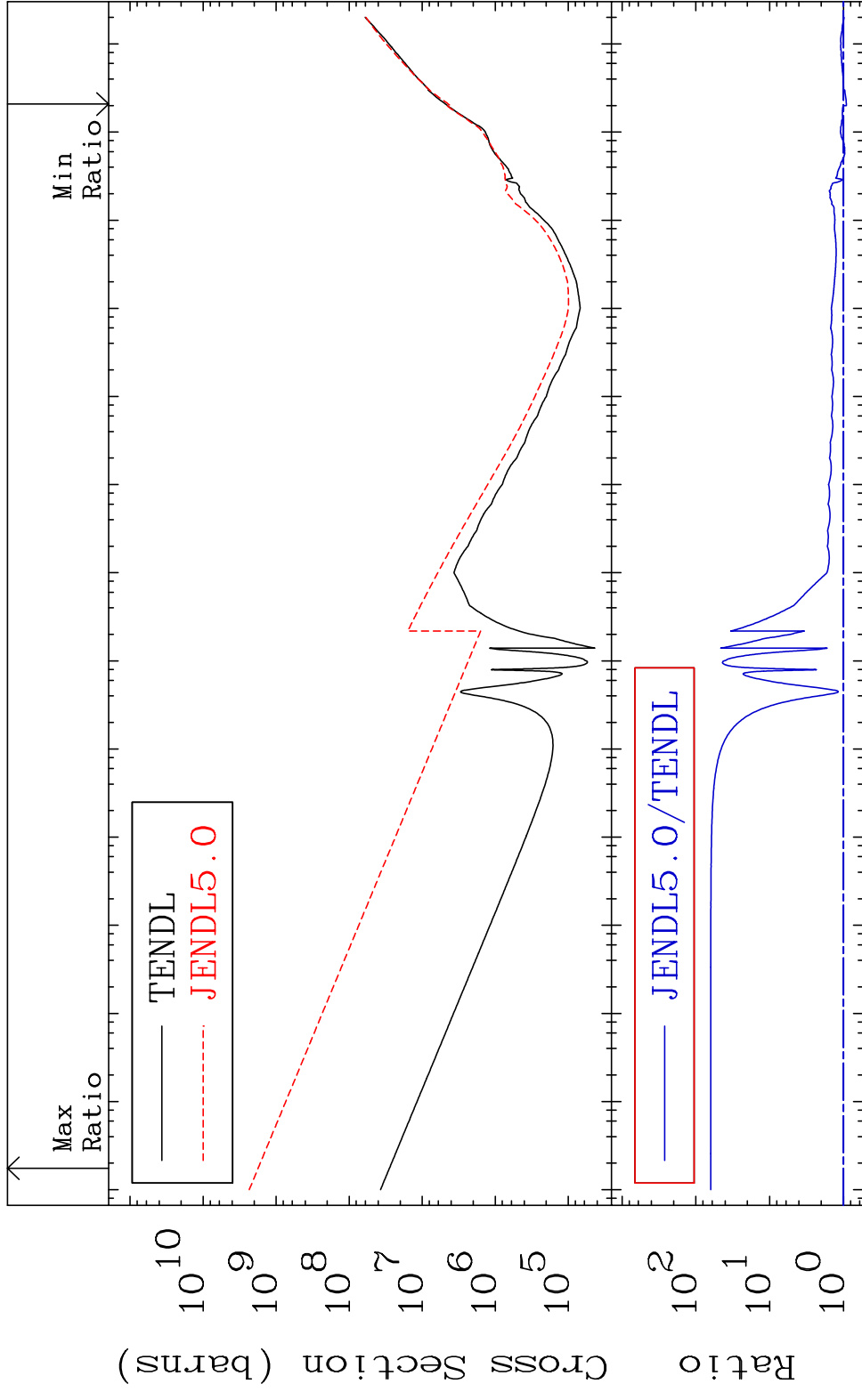


MAT 4022 He-4 Production 40-Zr-89
 Cross Section -99.87 To 50.70 %



55 Incident Energy (eV) 40-Zr-89

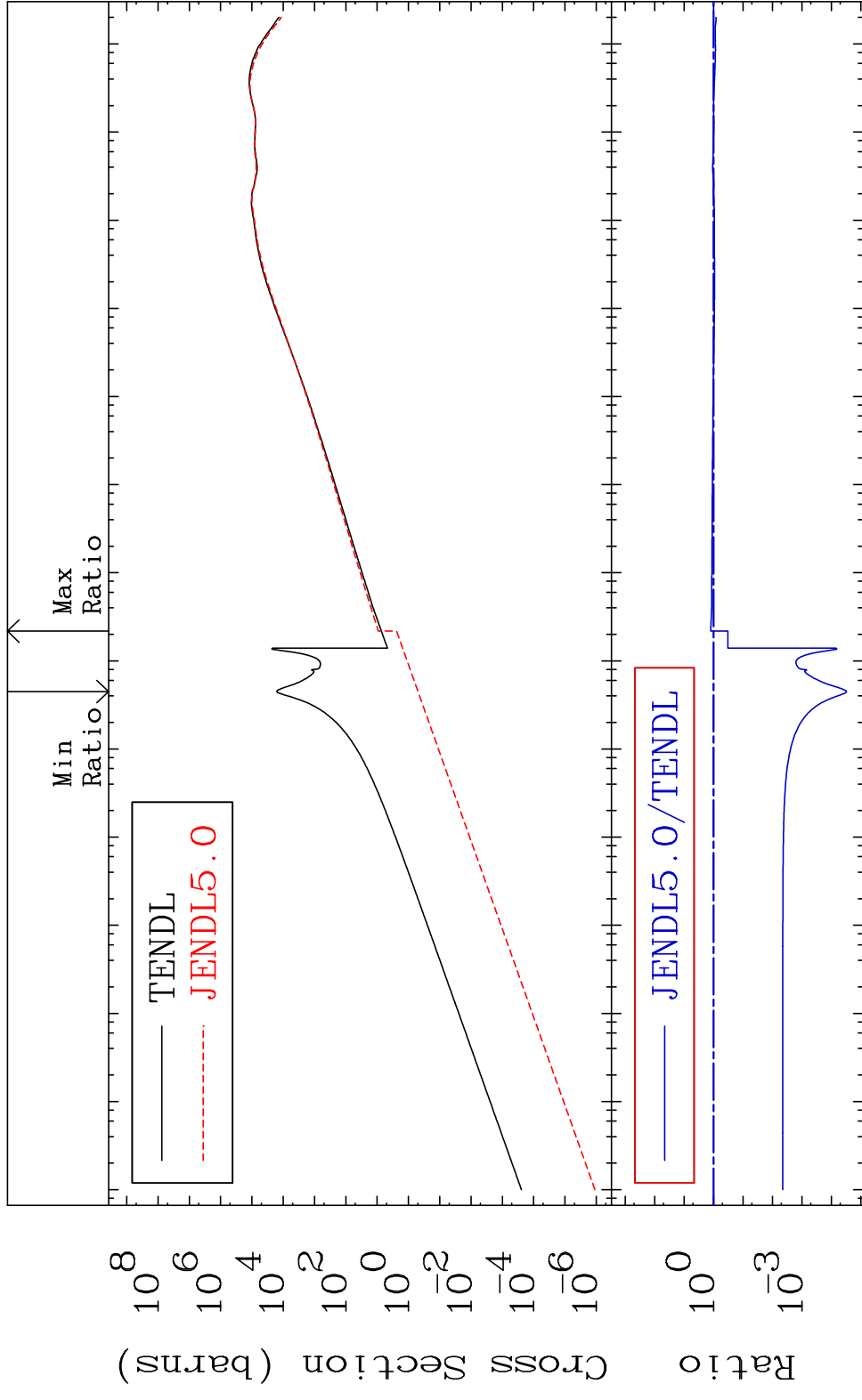
MAT 4022 Kerma total (eV-barns) 40-Zr-89
 Cross Section -8.699 To 6186. %



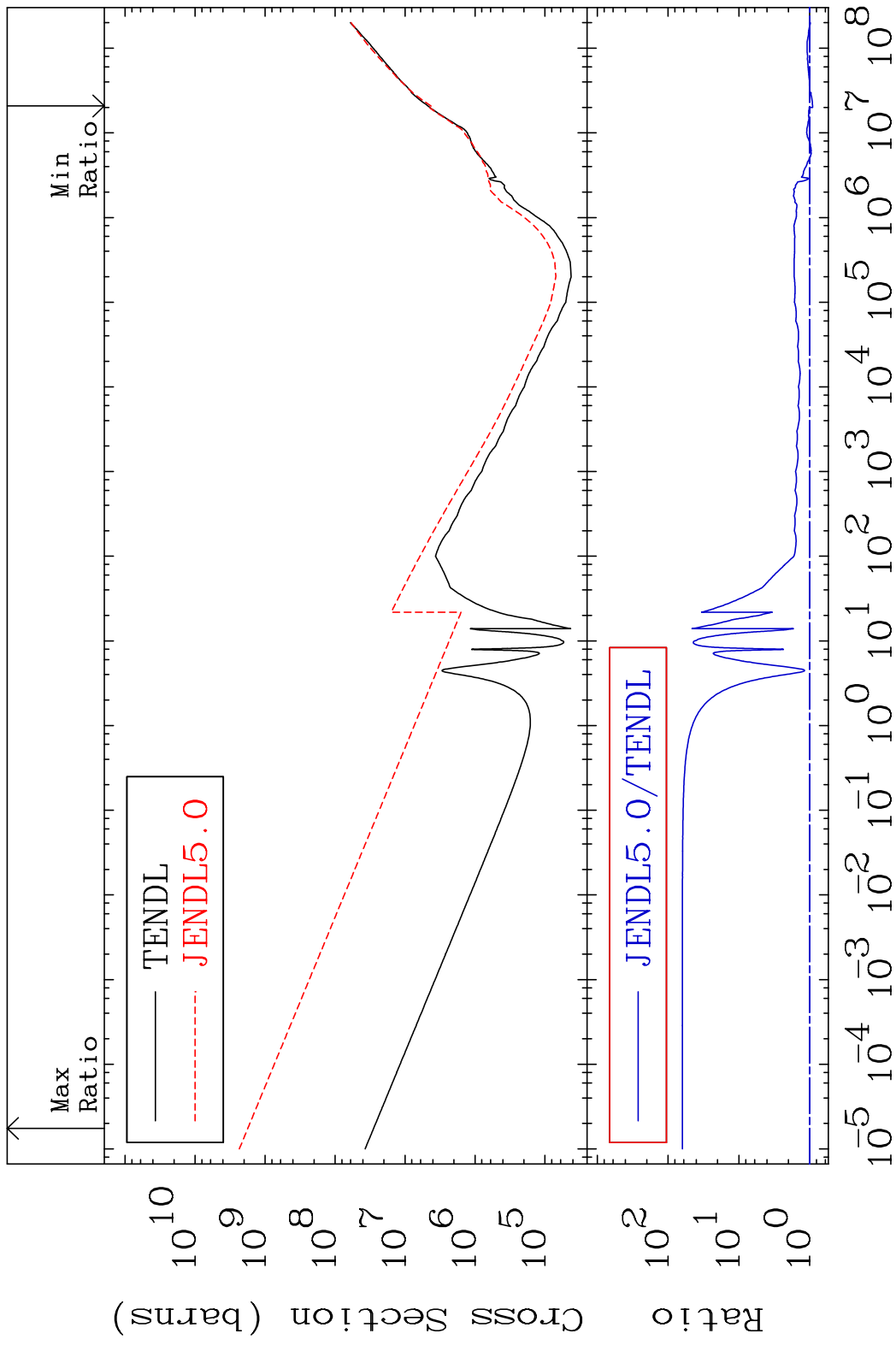
MAT 4022

Kerma elastic Cross Section -100.0 To 25.20 %

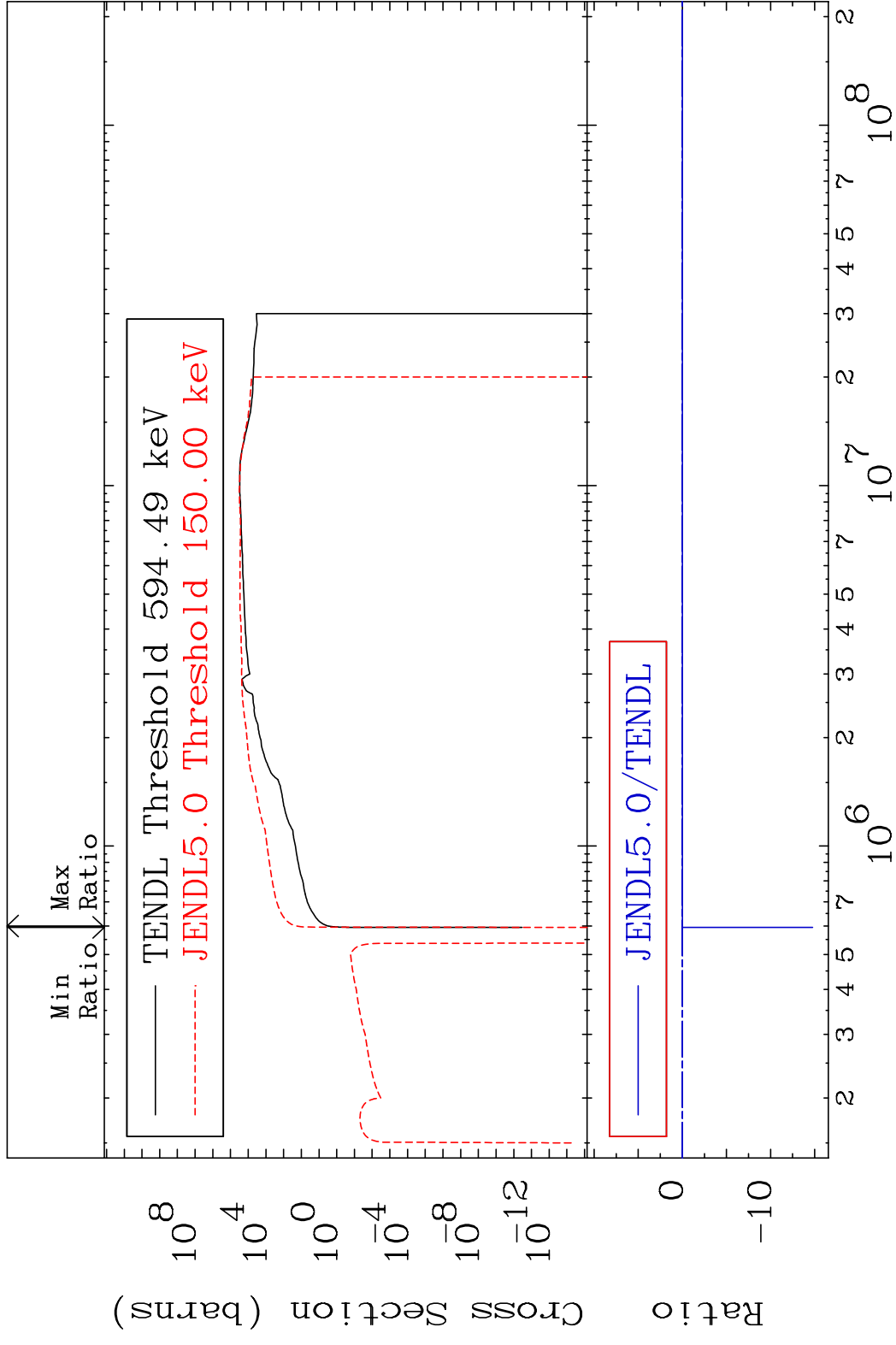
40-Zr-89



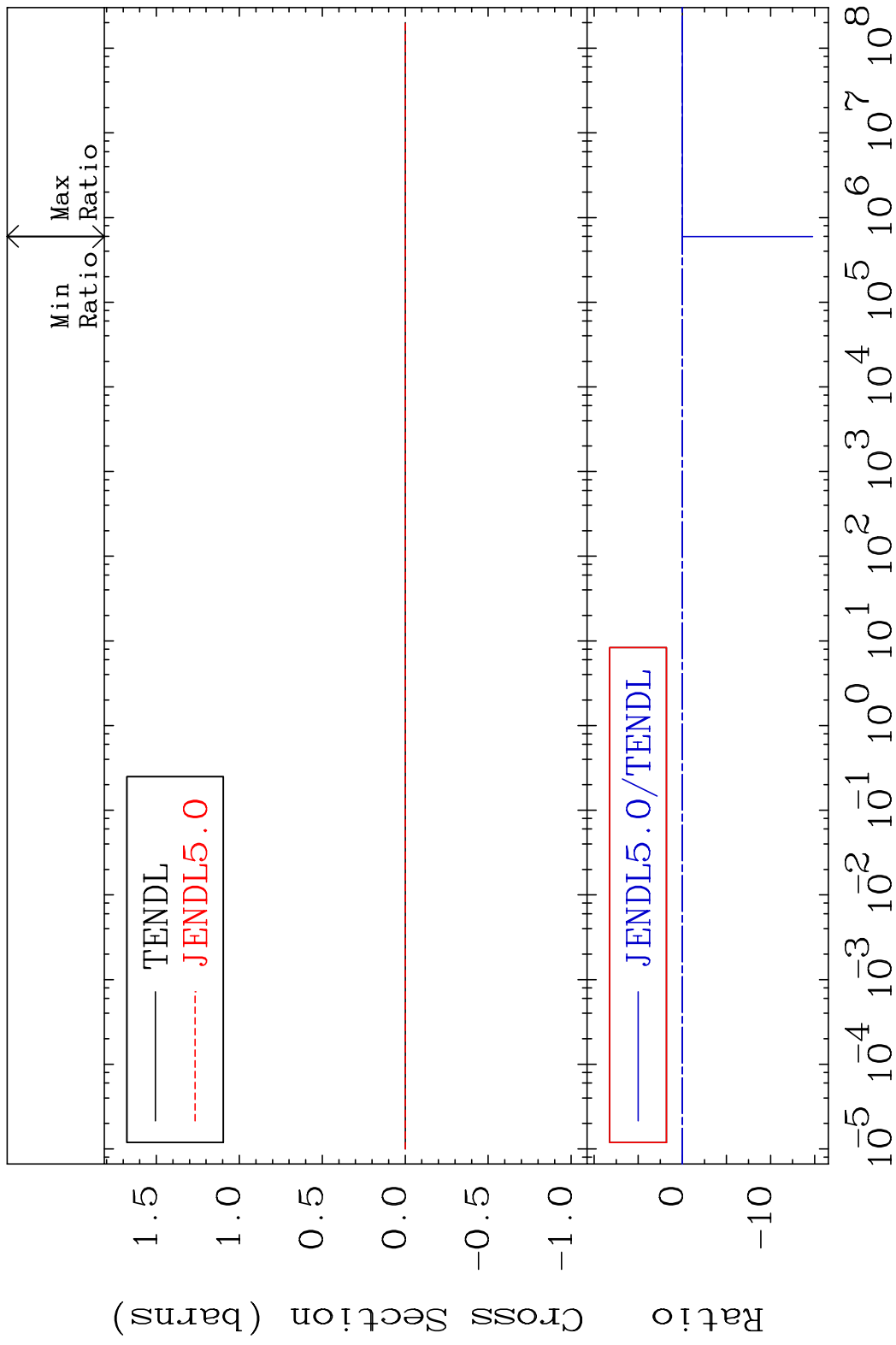
MAT 4022 Kerma non-elastic (all but mt2) 40-Zr-89
 Cross Section -8.871 To 6186. %



MAT 4022 Kerma inelastic (mt51-91) 40-Zr-89
 Cross Section -9999. To 6424. %

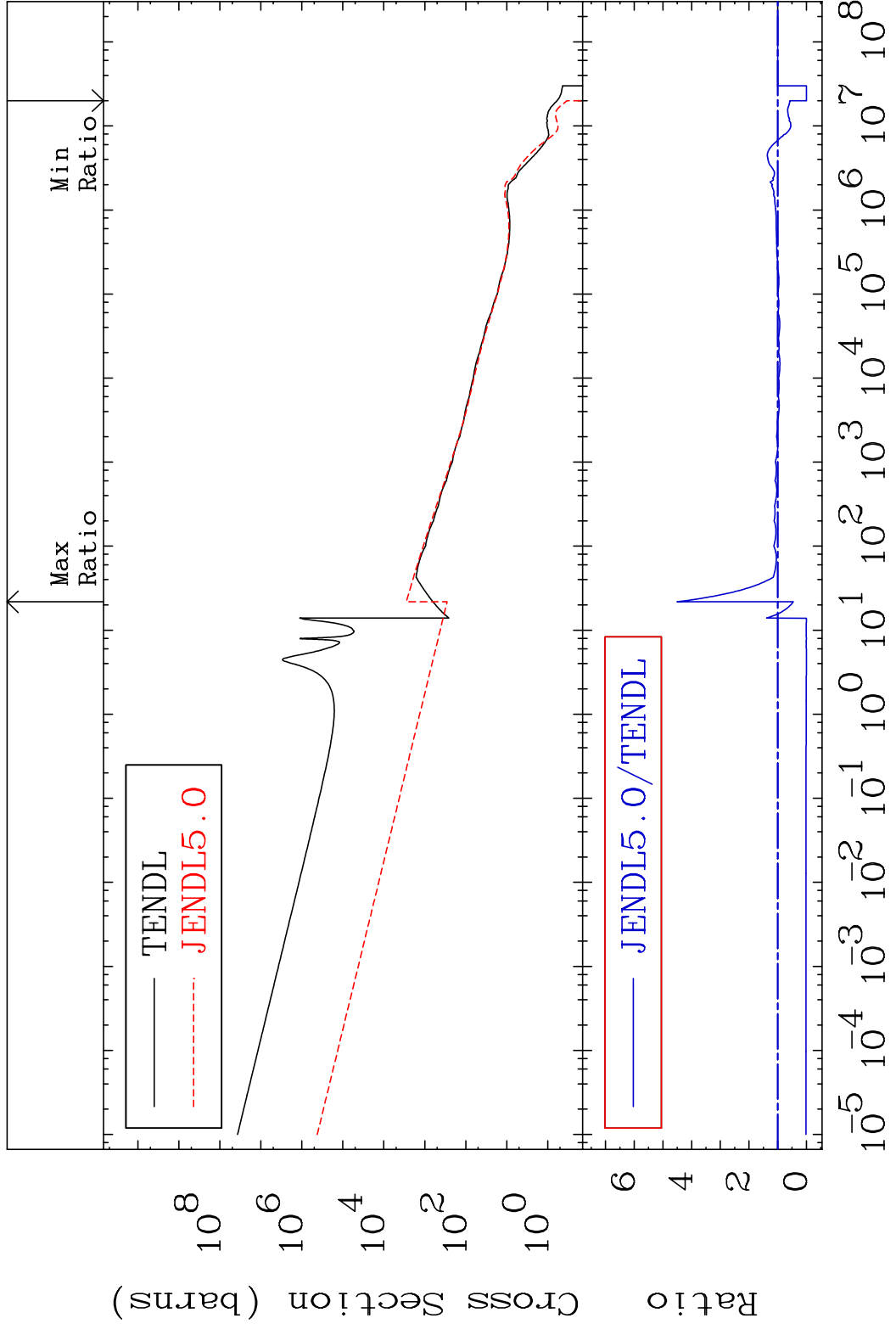


MAT 4022 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-89
 Cross Section -9999. To 6424. %



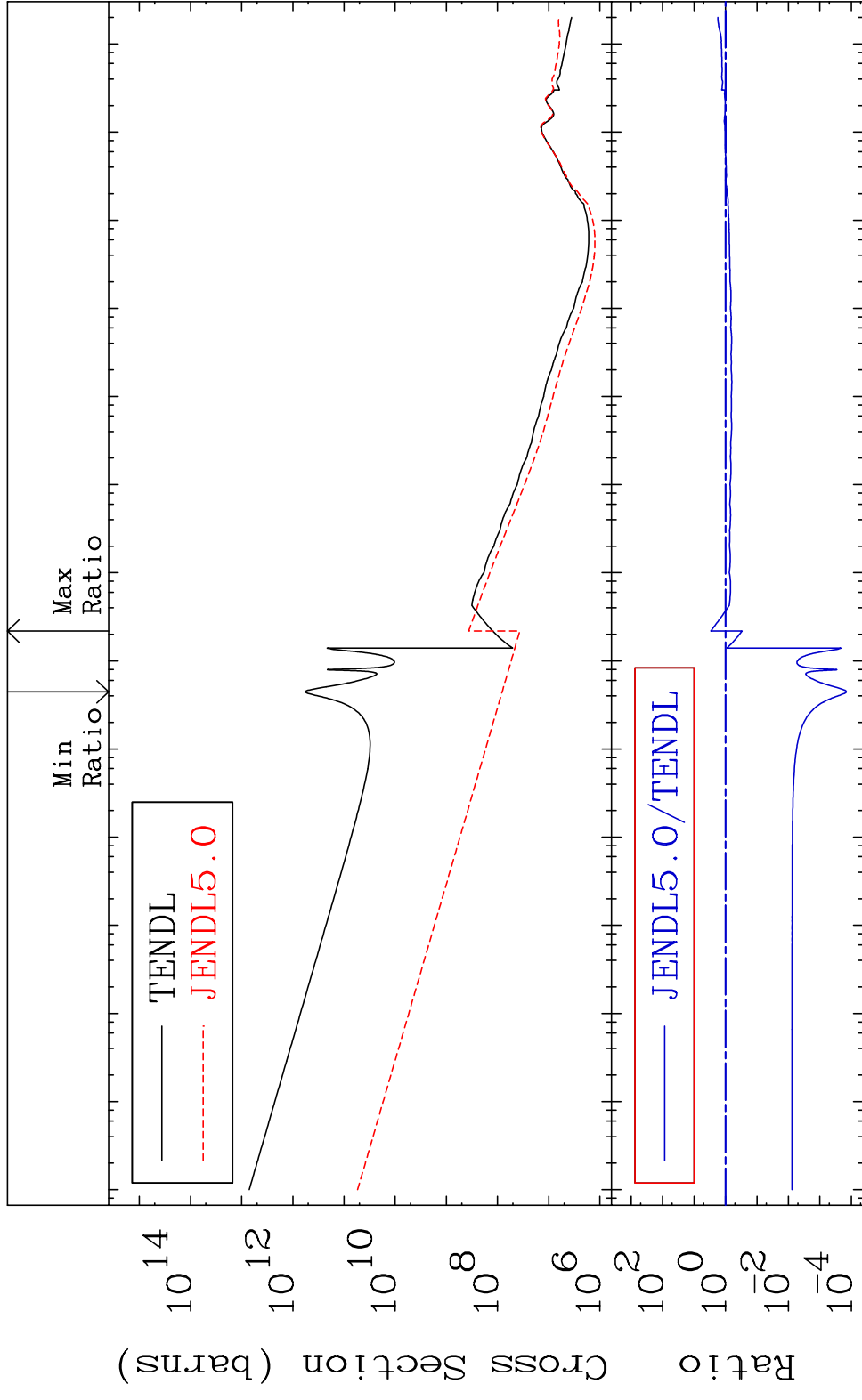
60 Incident Energy (eV) 40-Zr-89

MAT 4022 Kerma capture (mt102) 40-Zr-89
Cross Section -100.0 To 350.2 %



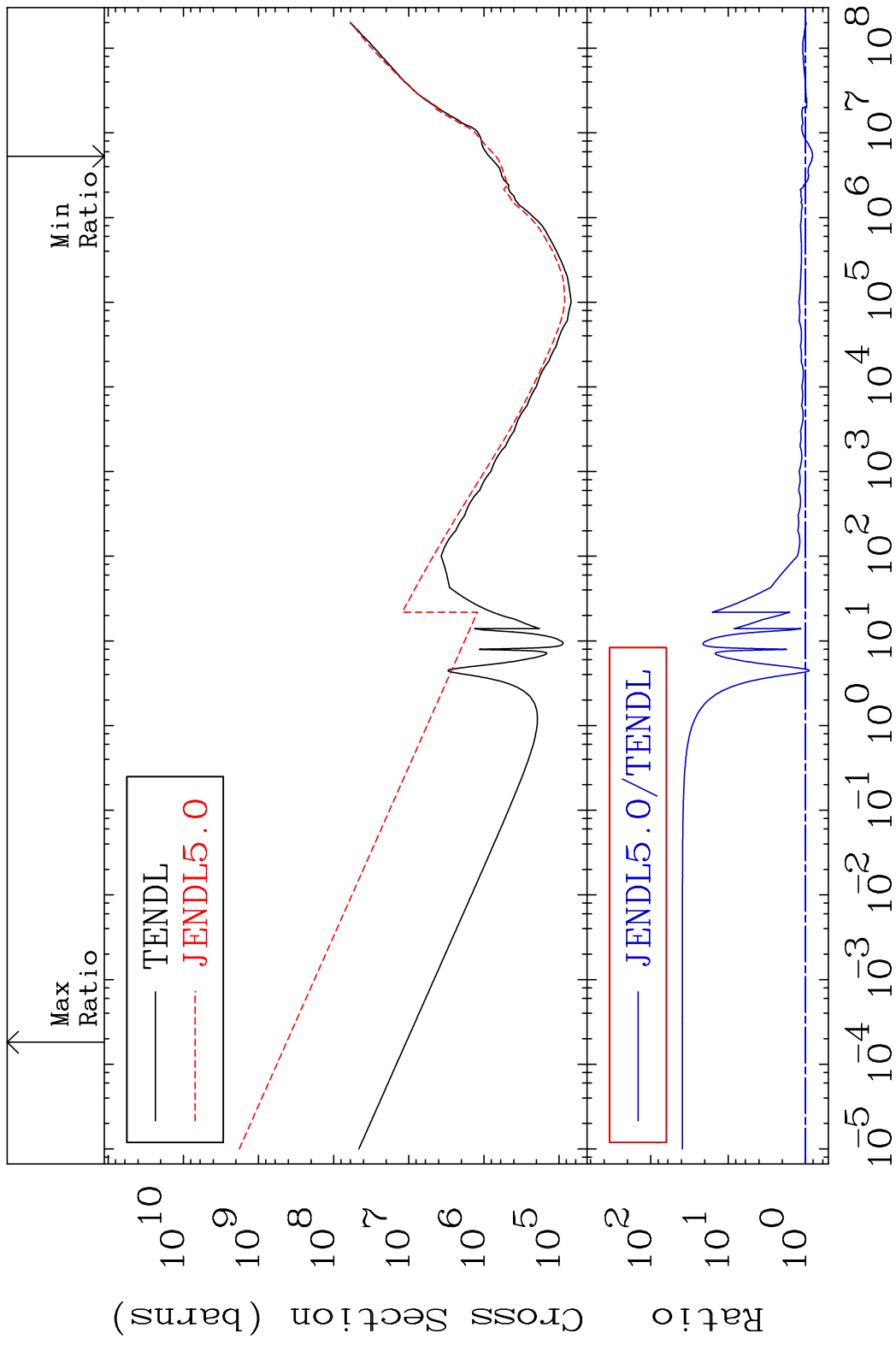
61 Incident Energy (eV) 40-Zr-89

MAT 4022 Total photon (eV-barns) 40-Zr-89
 Cross Section -99.99 To 195.9 %

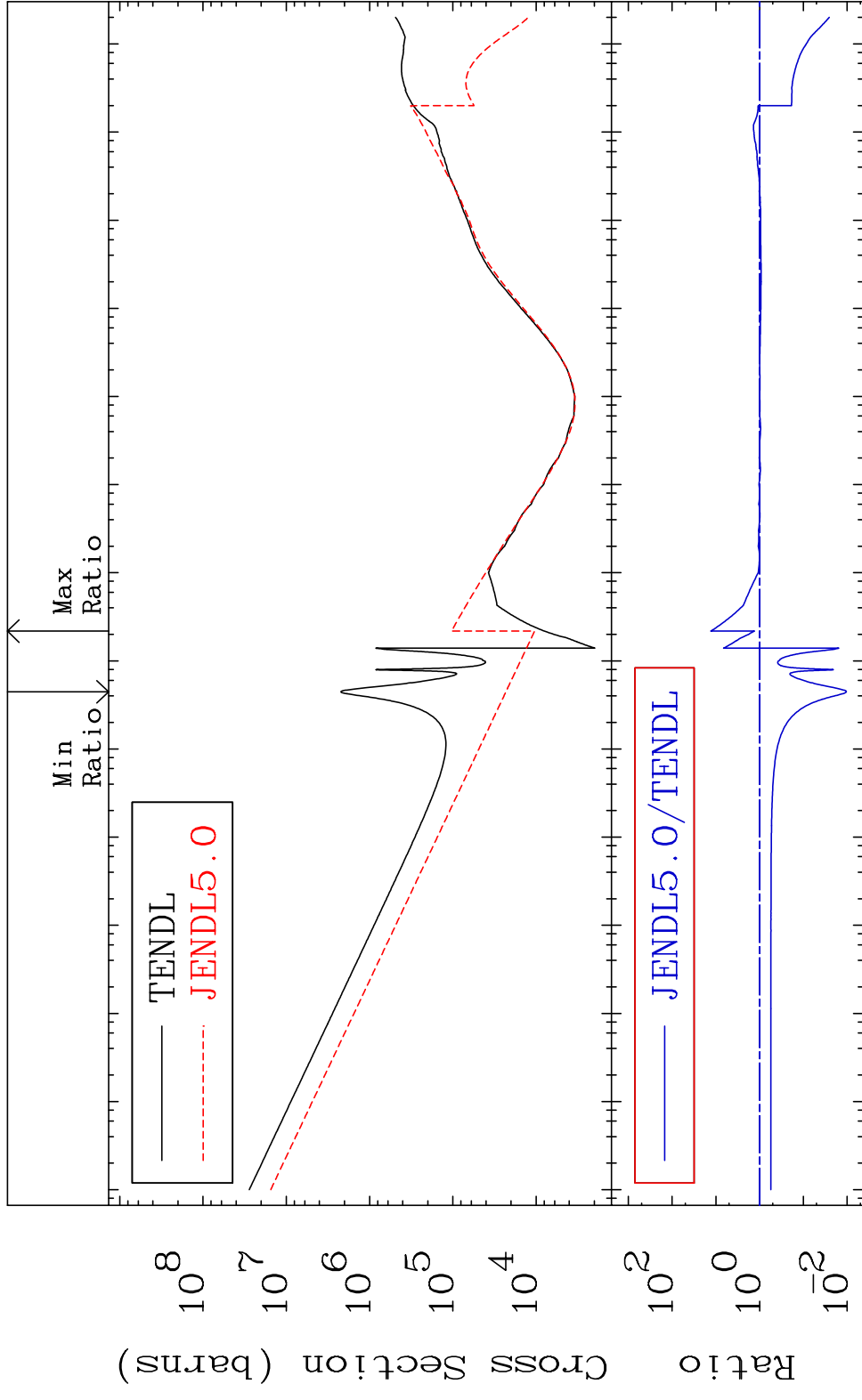


62 Incident Energy (eV) 40-Zr-89

MAT 4022 Total kinematic kerma (high limit) 40-Zr-89
 Cross Section -18.62 To 3803. %



MAT 4022 Dpa total (eV-barns) 40-Zr-89
 Cross Section -98.96 To 1212. %



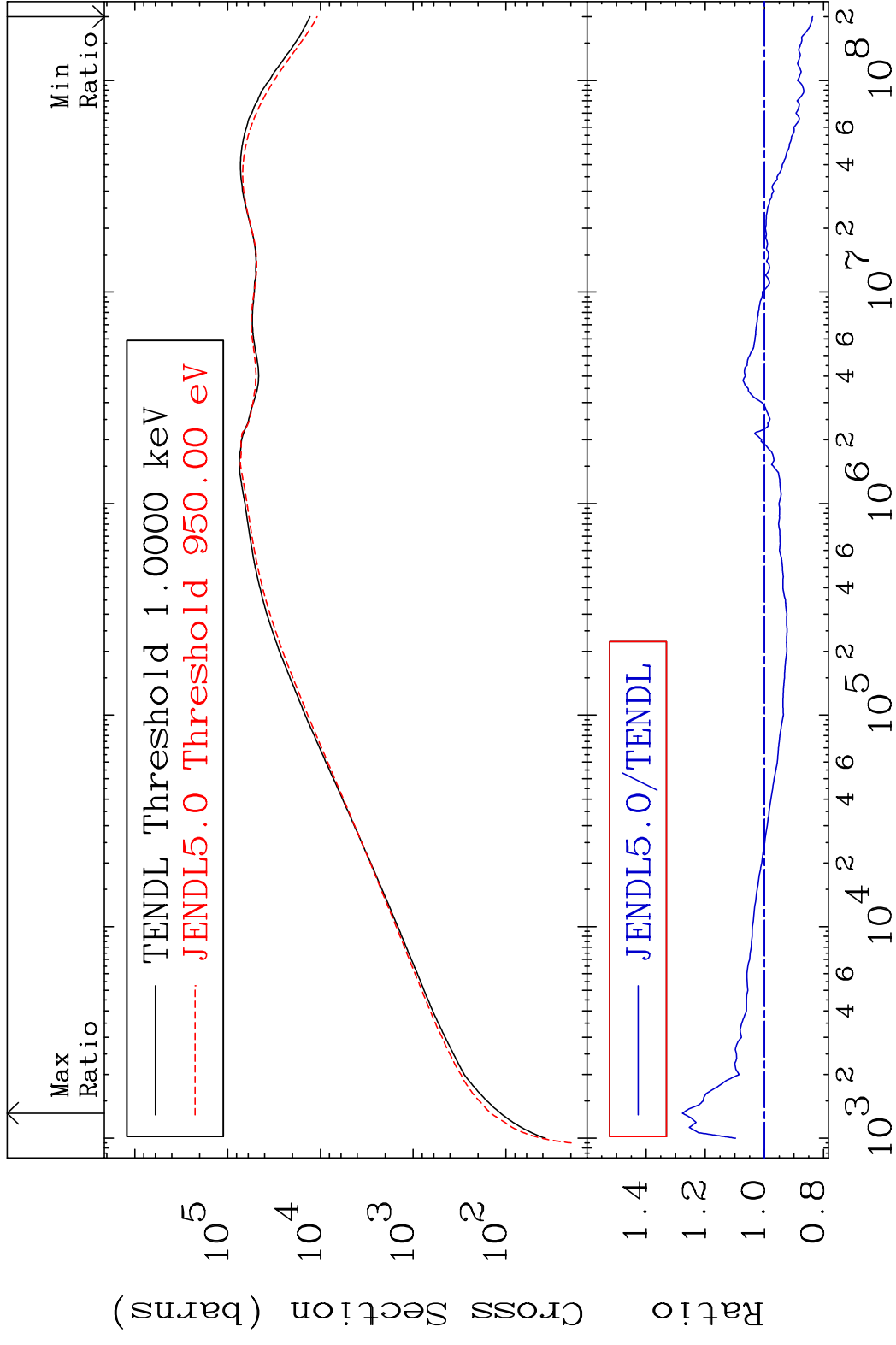
64 Incident Energy (eV) 40-Zr-89

MAT 4022

Dpa elastic (mt2)

40-Zr-89

Cross Section -16.27 To 27.73 %

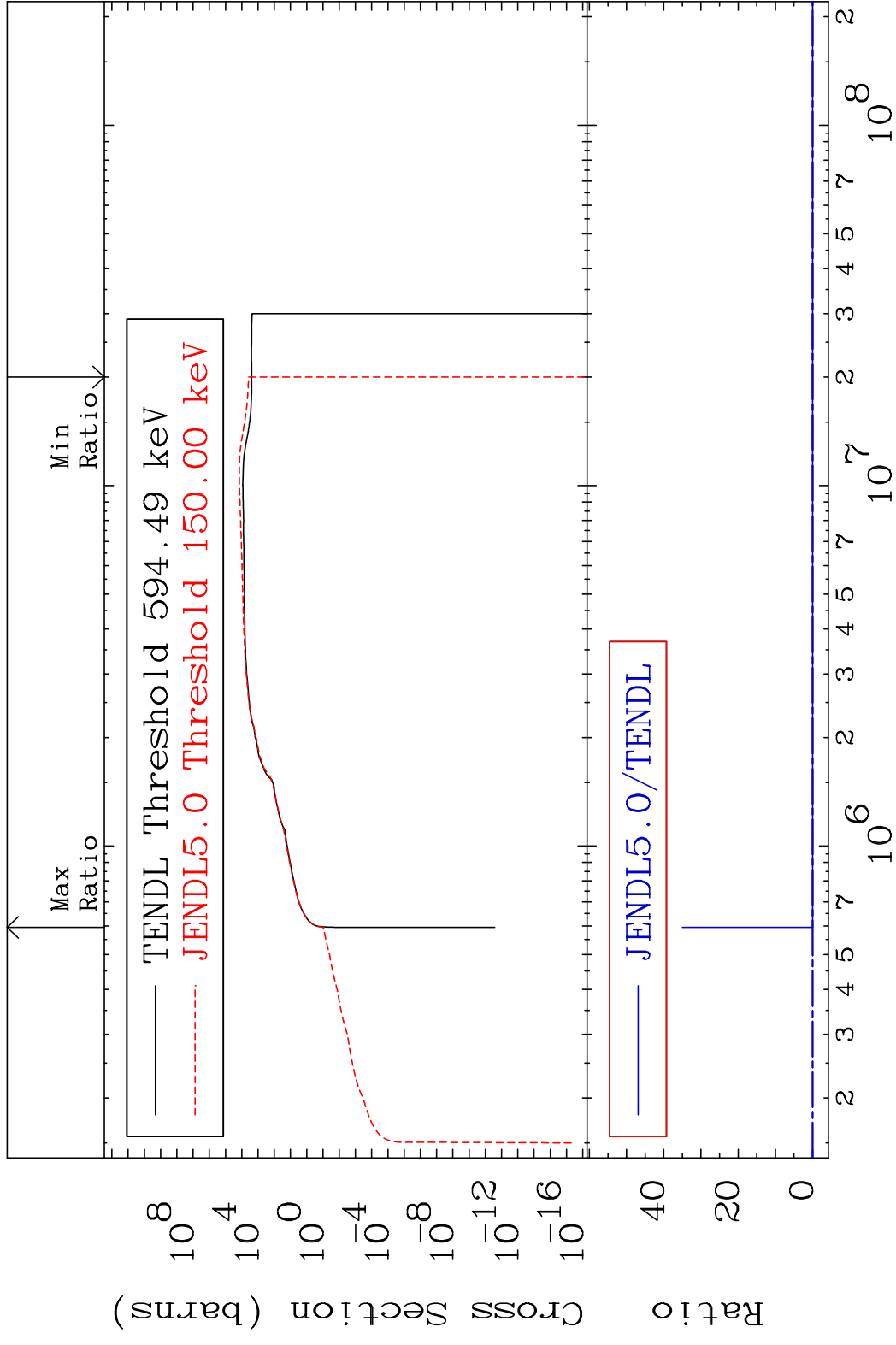


65

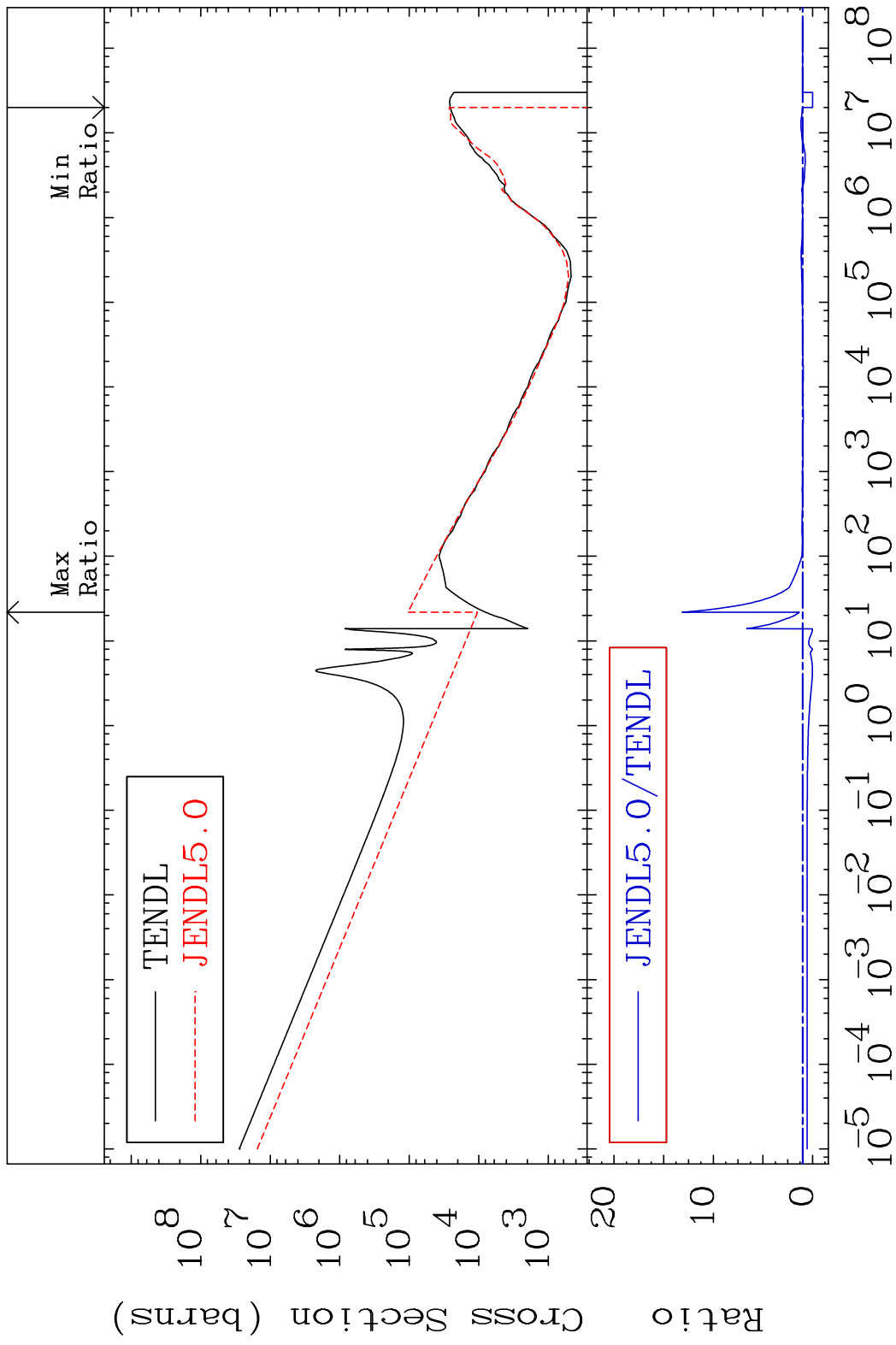
Incident Energy (eV)

40-Zr-89

MAT 4022 Dpa inelastic (mt51-91) 40-Zr-89
 Cross Section -100.0 To 9999. %

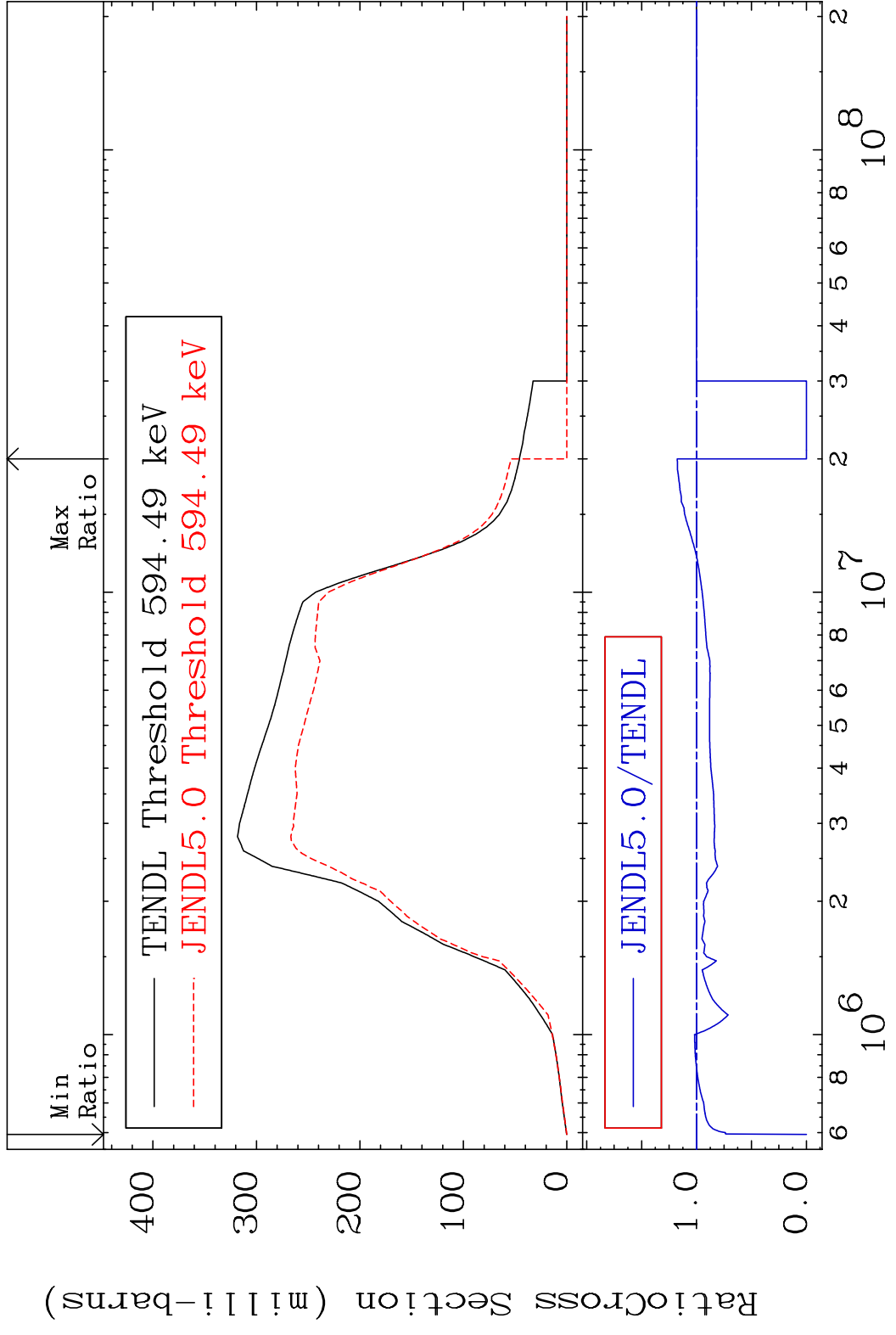


MAT 4022 Dpa disappearance (mt102 -120) 40-Zr-89
 Cross Section -100.0 To 1212. %

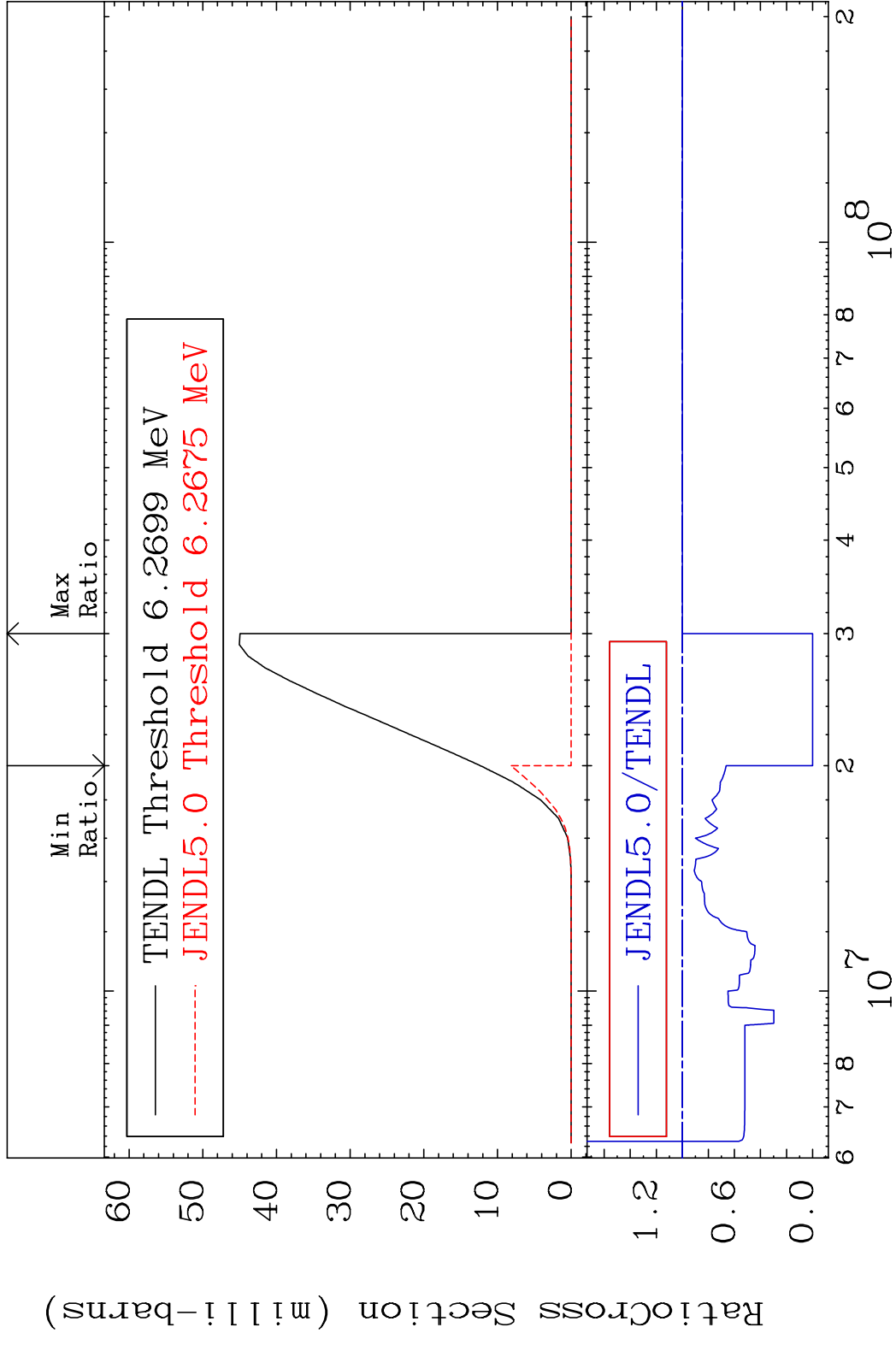


67 Incident Energy (eV) 40-Zr-89

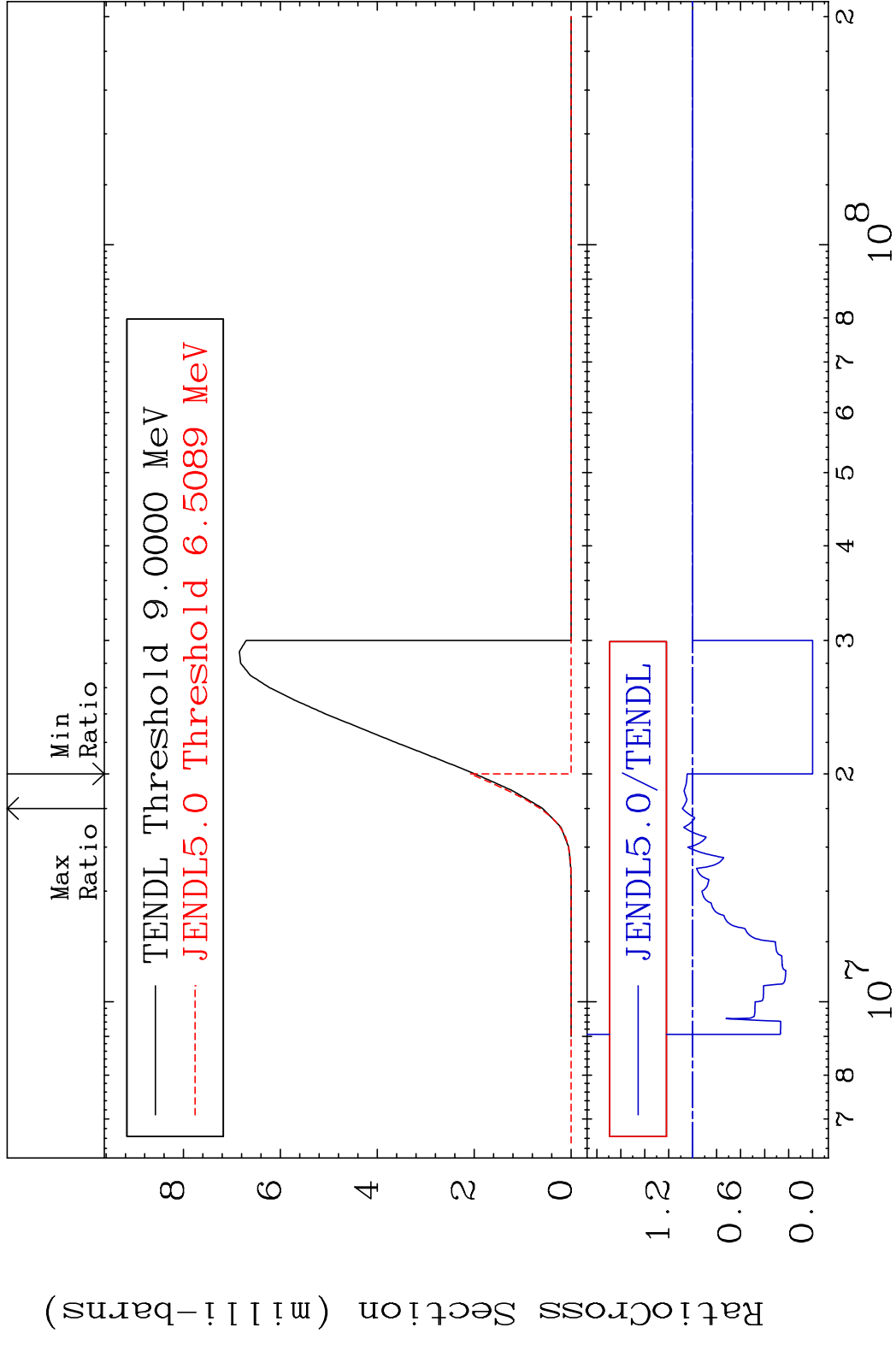
MAT 4022 Inelastic: 40-Zr-89m1 40-Zr-89
 Radionuclide Production Cross Section 180.01 dpo 17.64 %



MAT 4022 (n, n') α :38-Sr-85g 40-Zr-89
 Radionuclide Production Cross Section Ratio 0.000 %

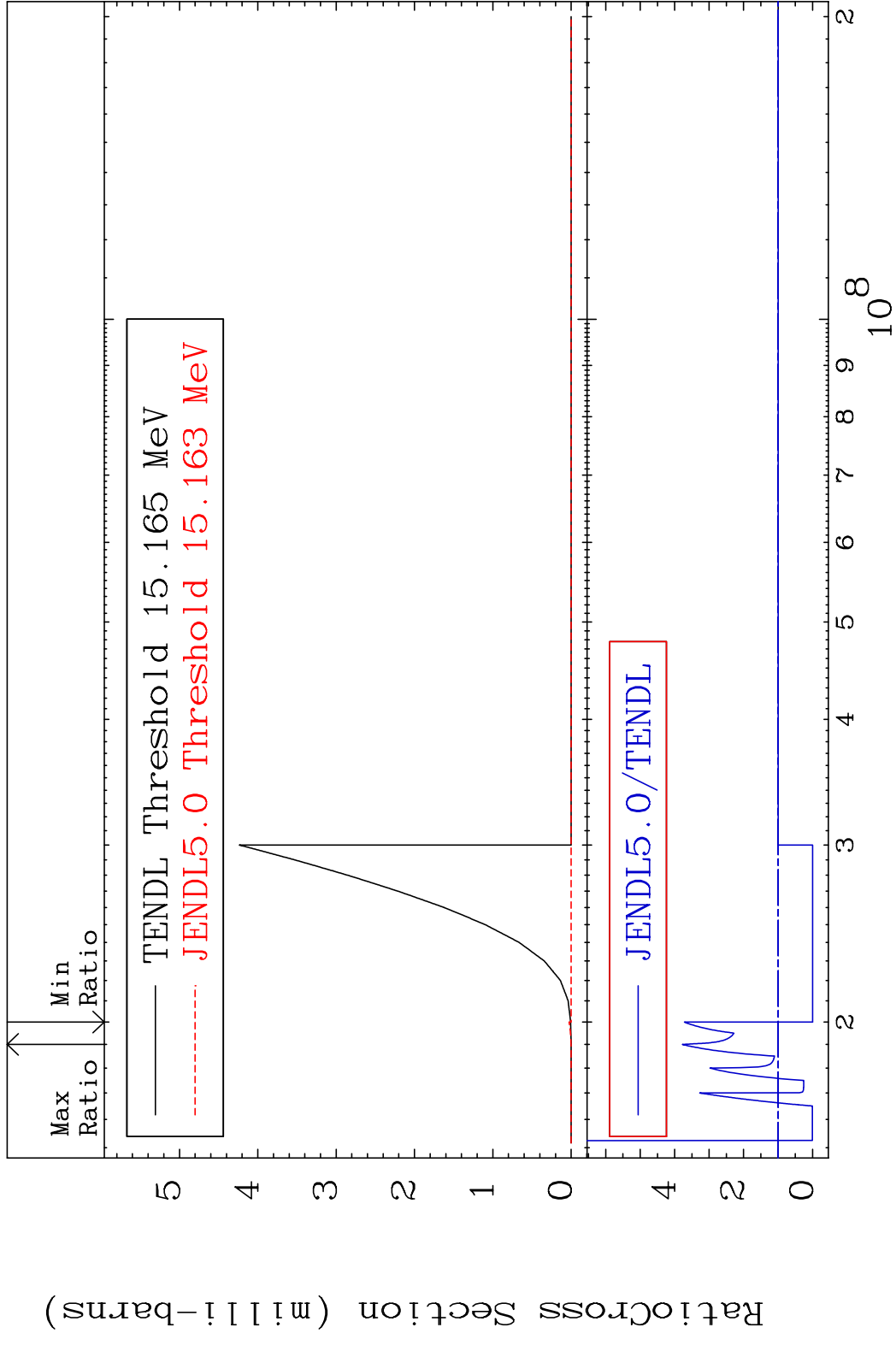


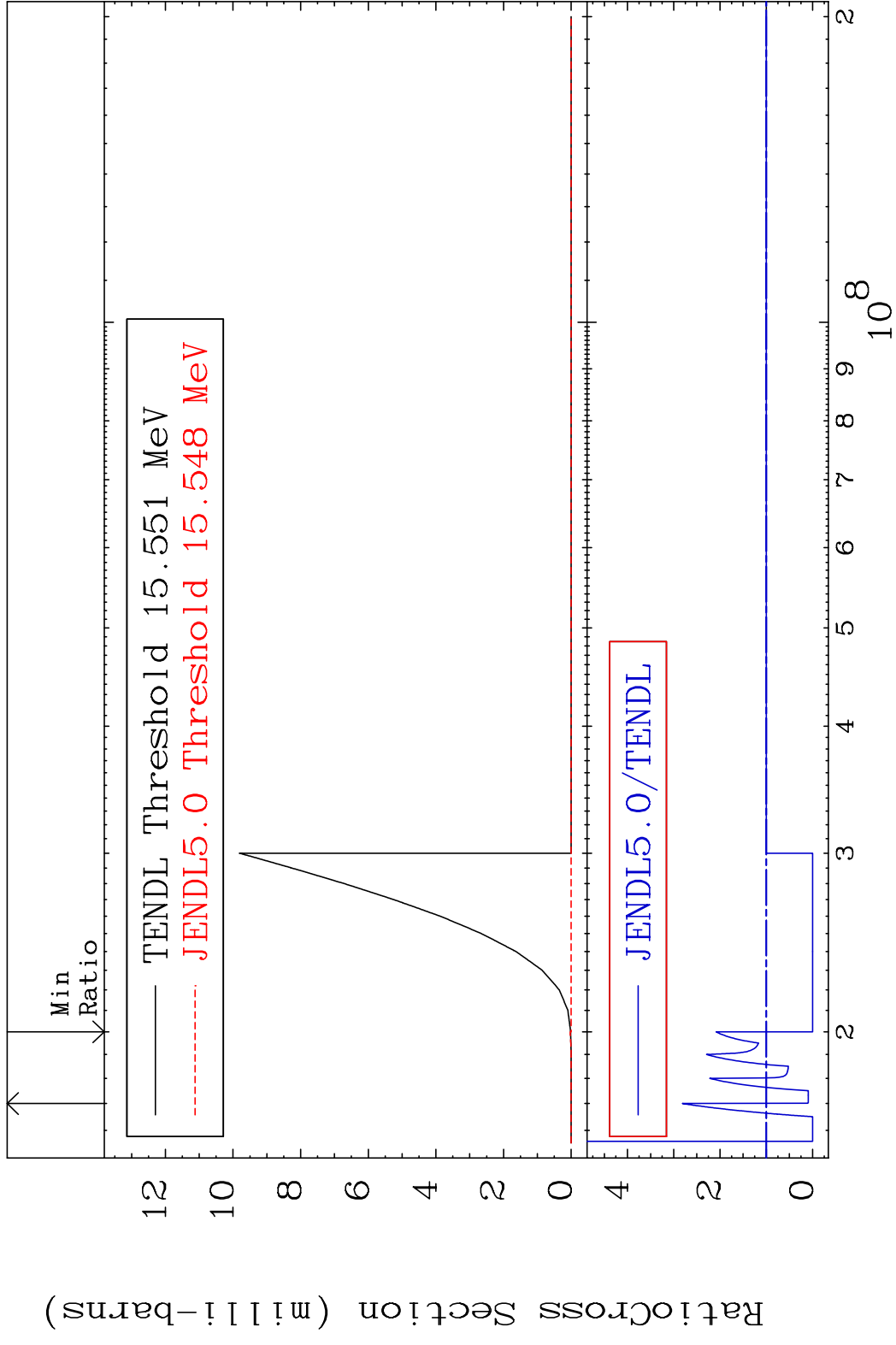
MAT 4022 (n, n') α :38-Sr-85m2 40-Zr-89
 Radionuclide Production Cross Section Ratio 8.621 %

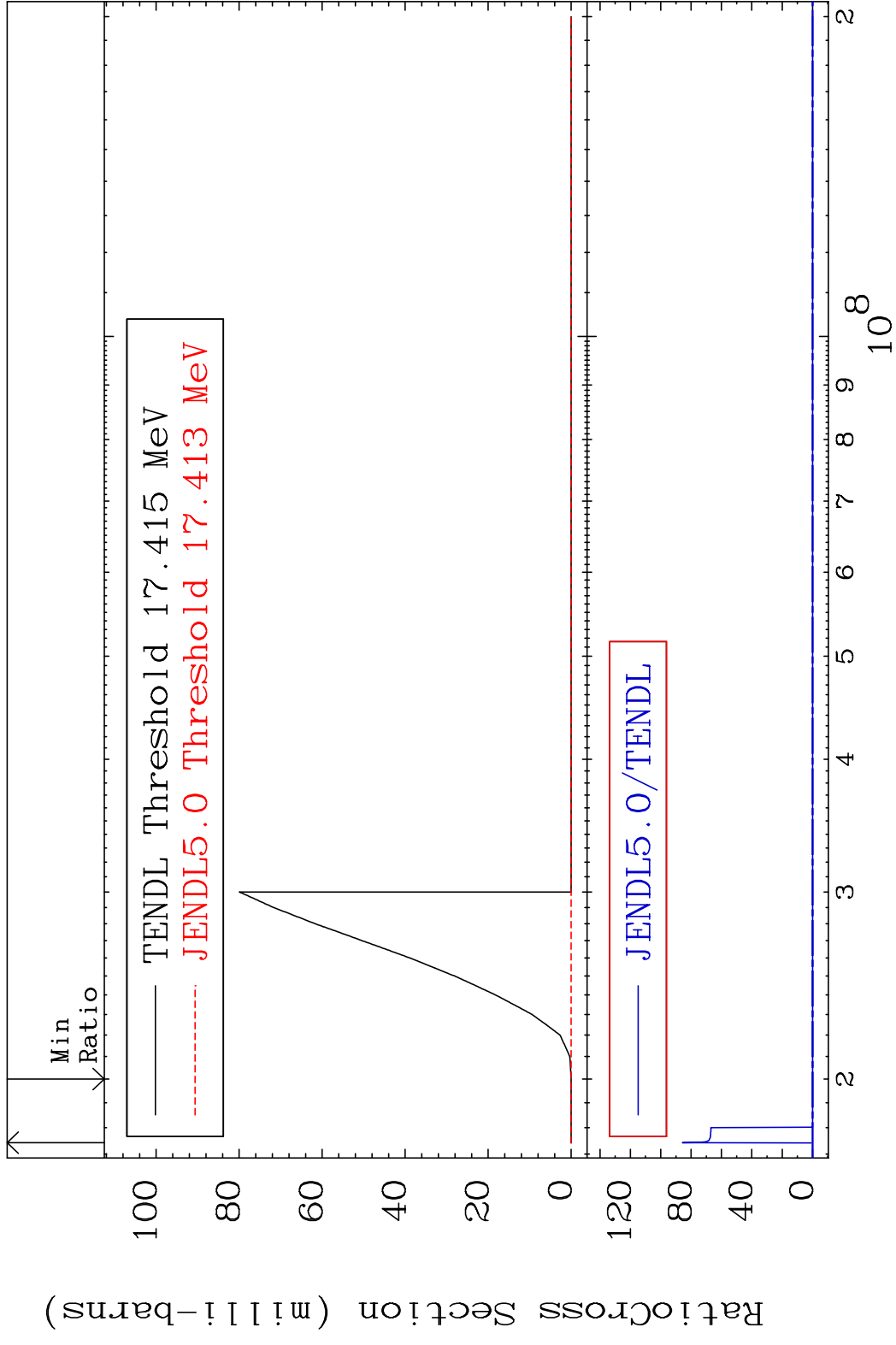


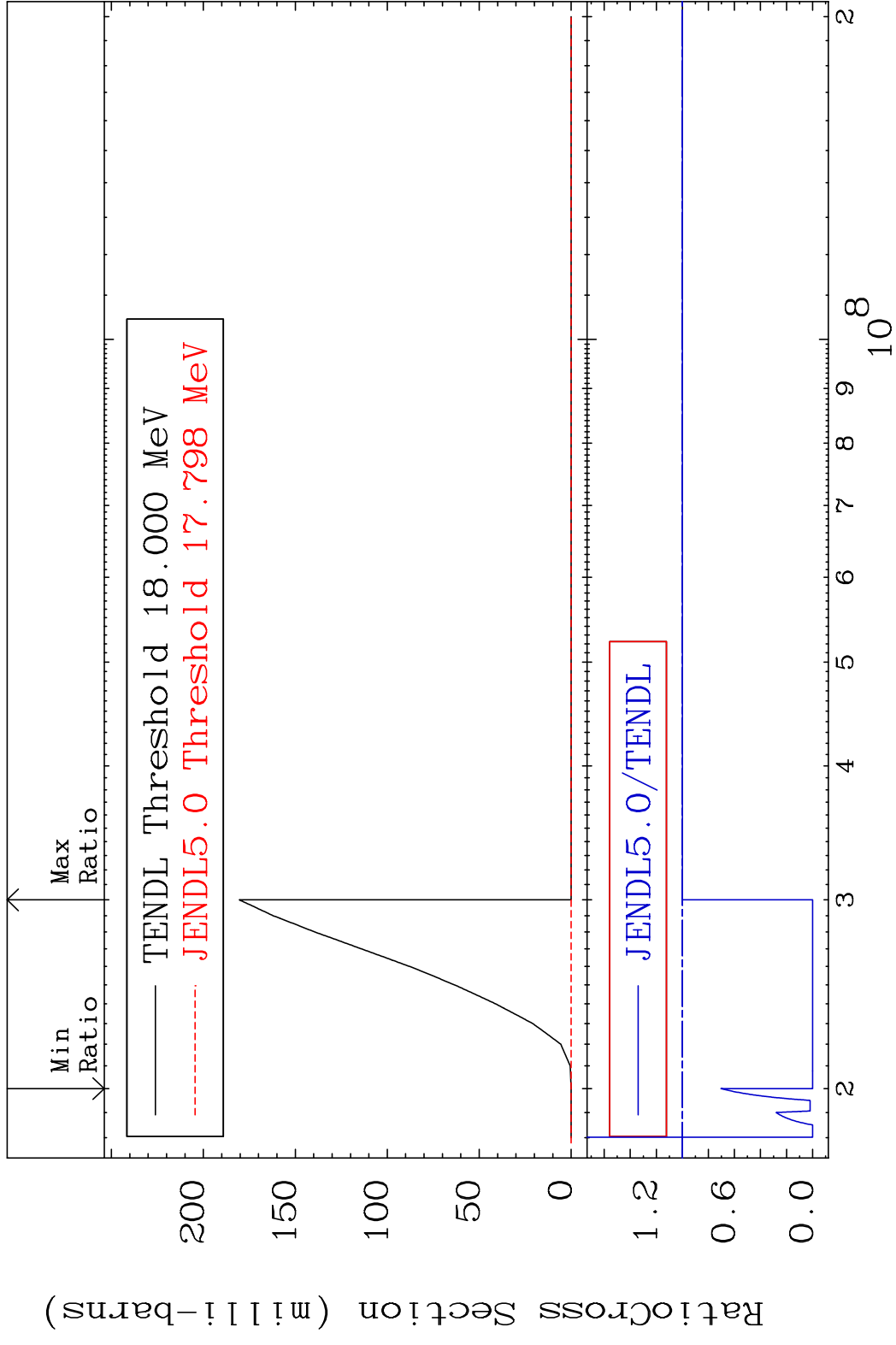
70

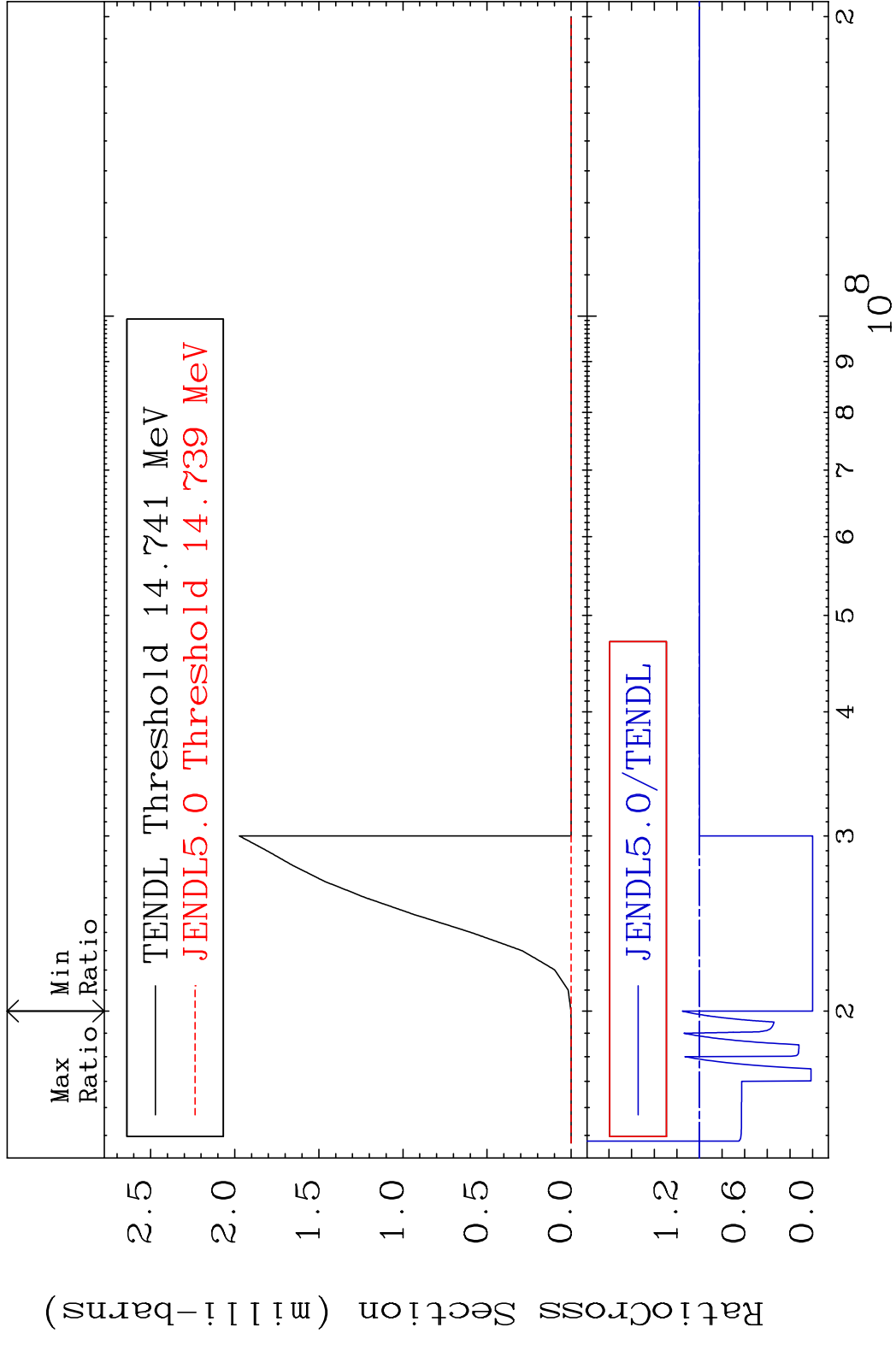
Incident Energy (eV) 40-Zr-89

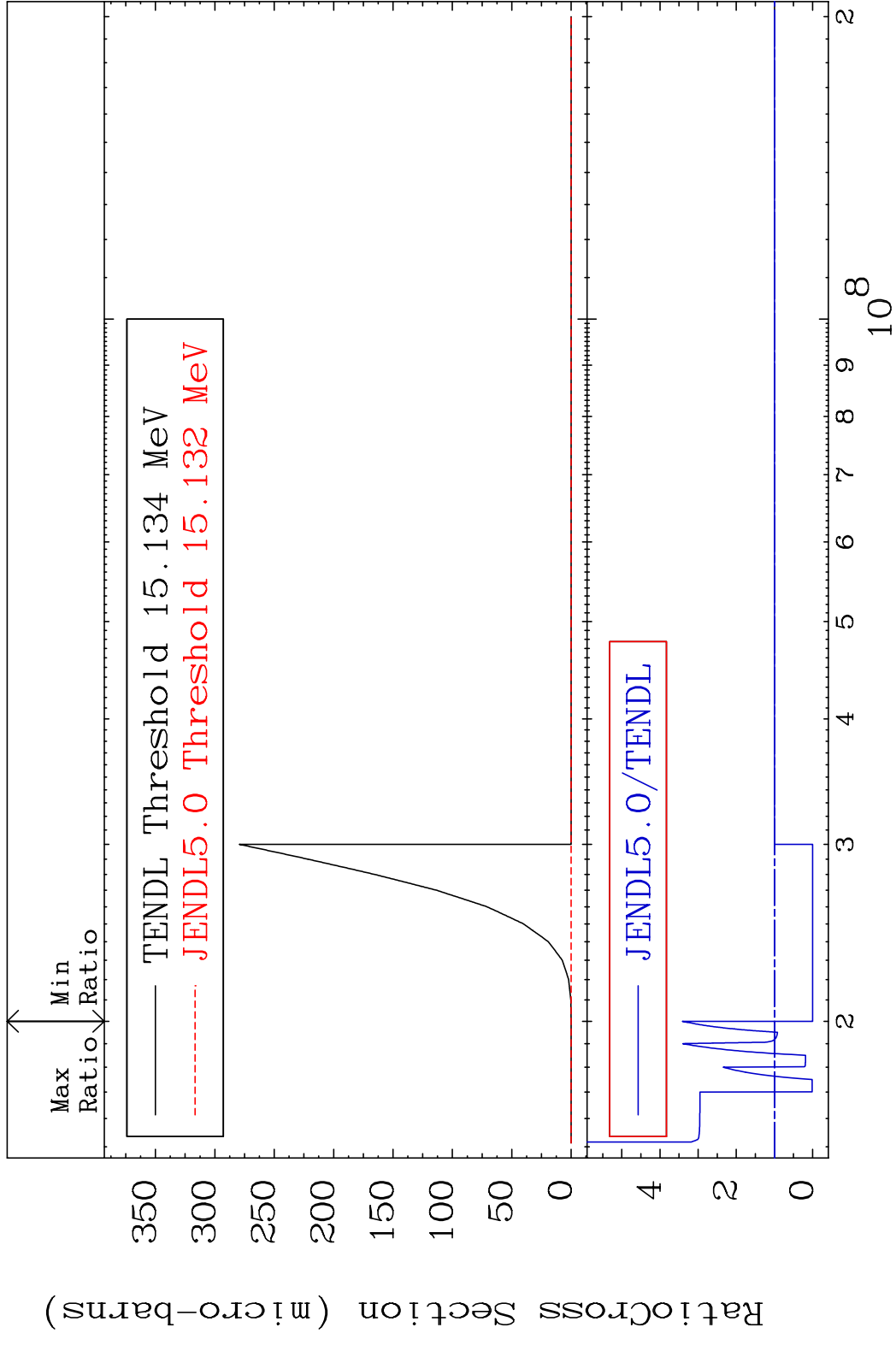


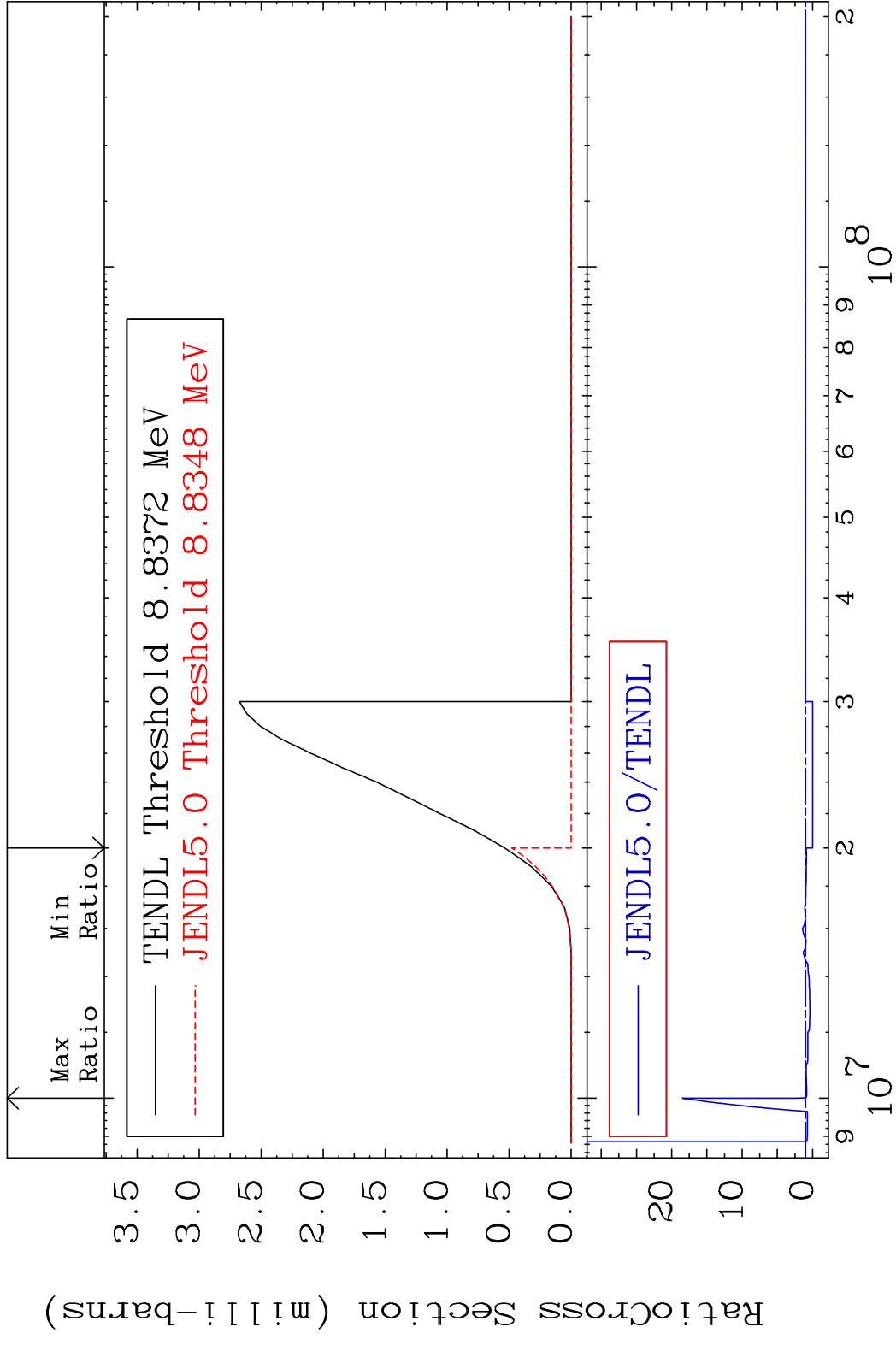




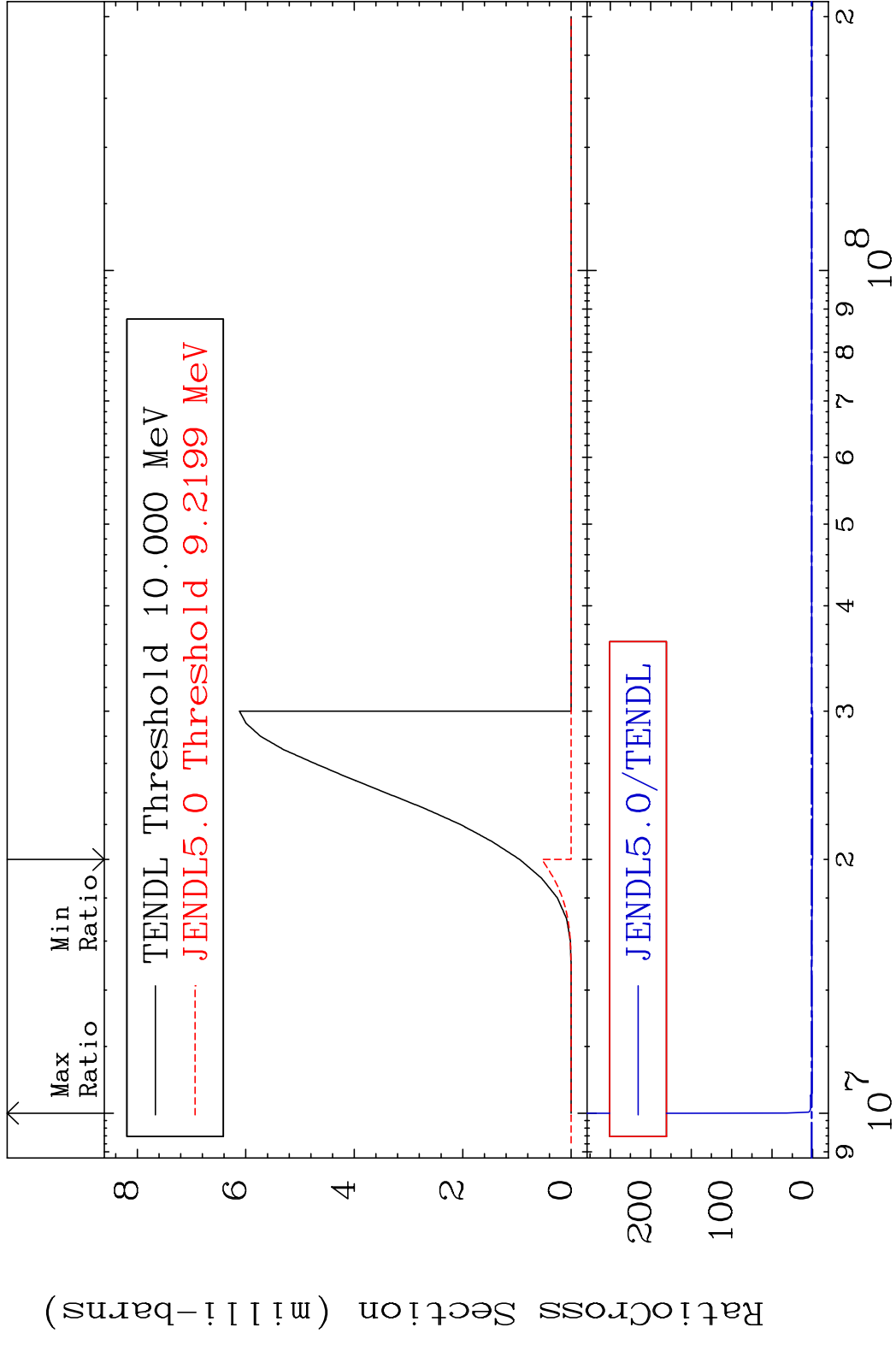




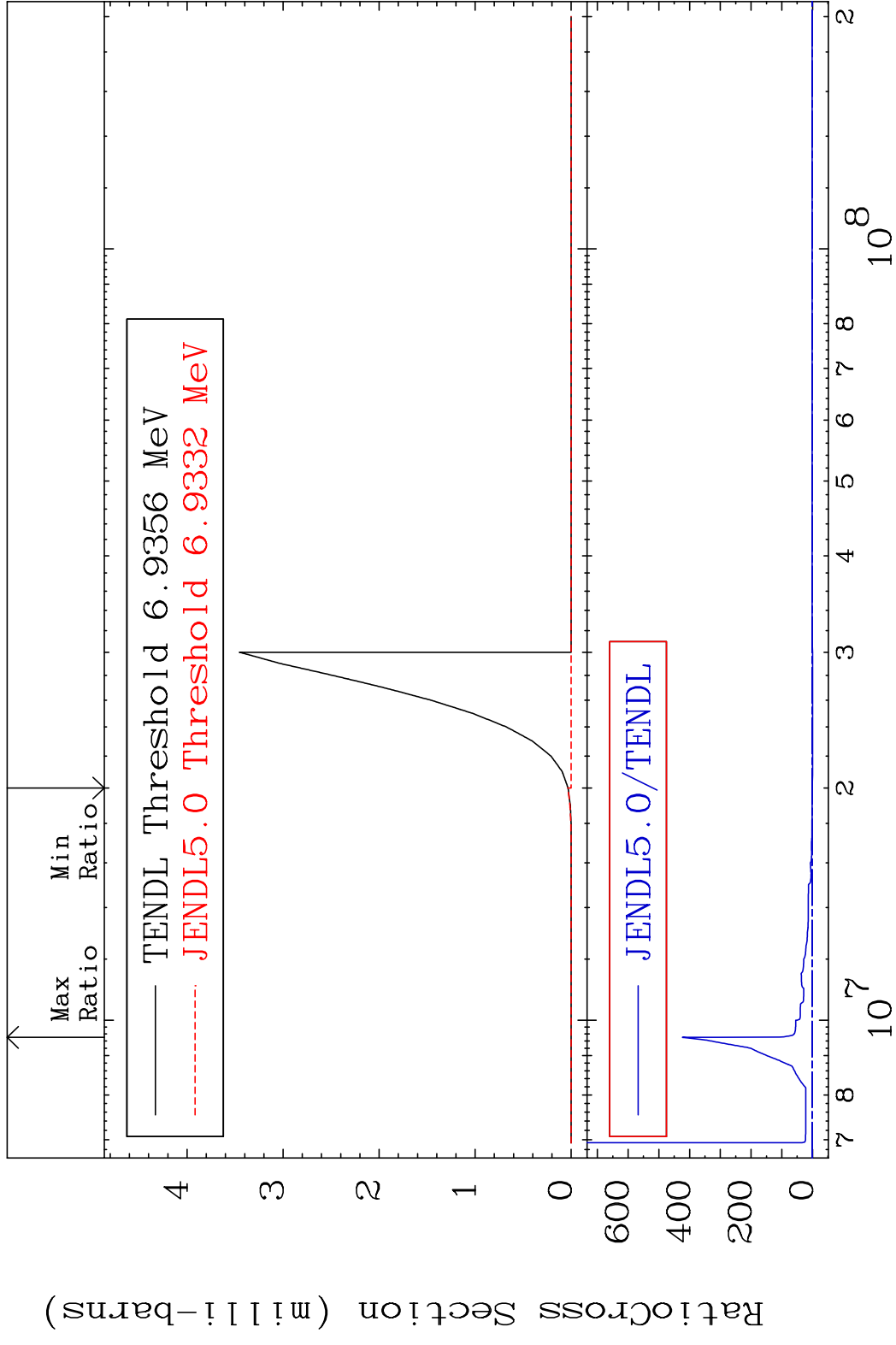


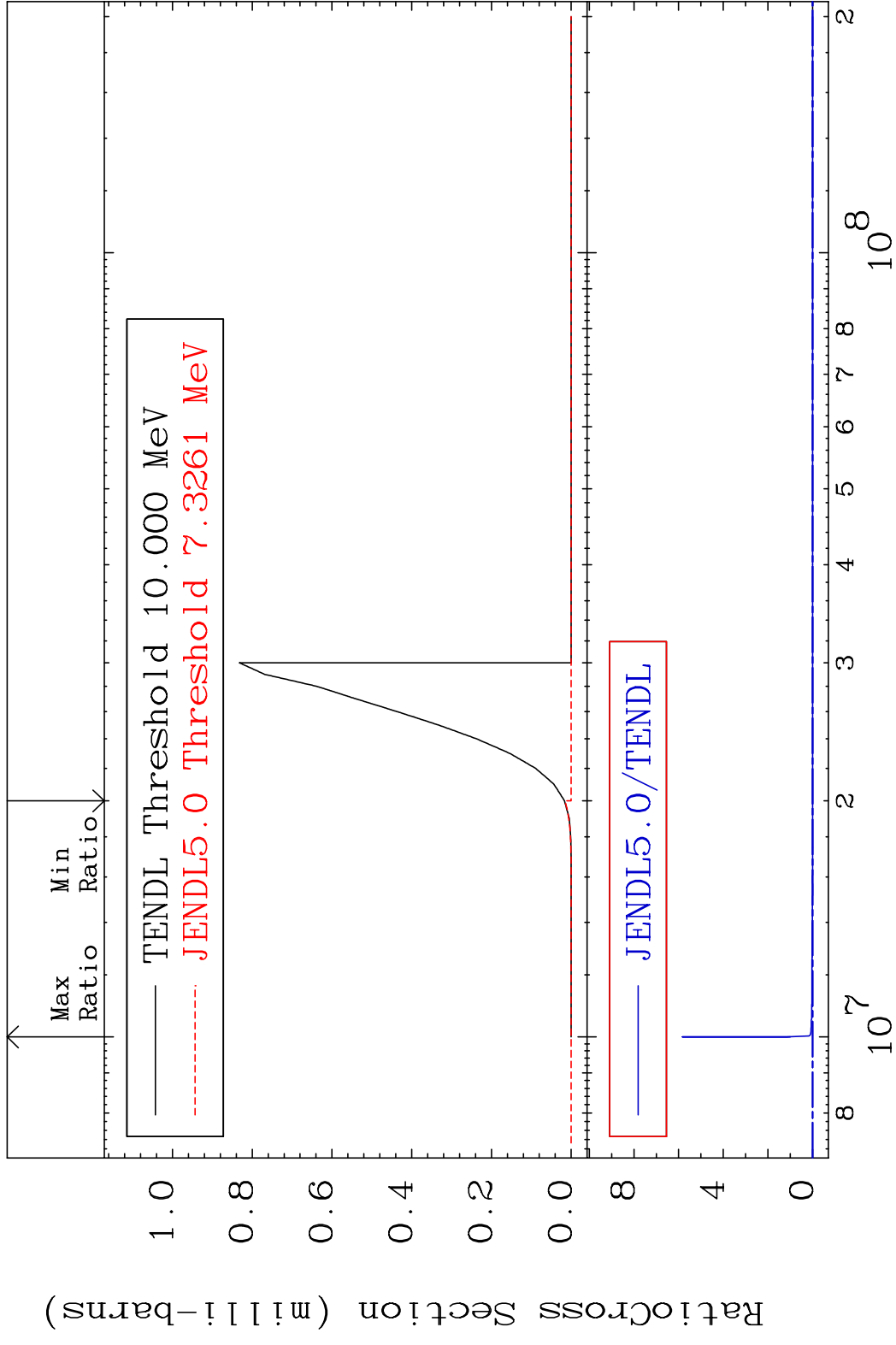


MAT 4022 (n, t):39-Y -87m1 40-Zr-89
 Radionuclide Production Cross Section to 9999. %

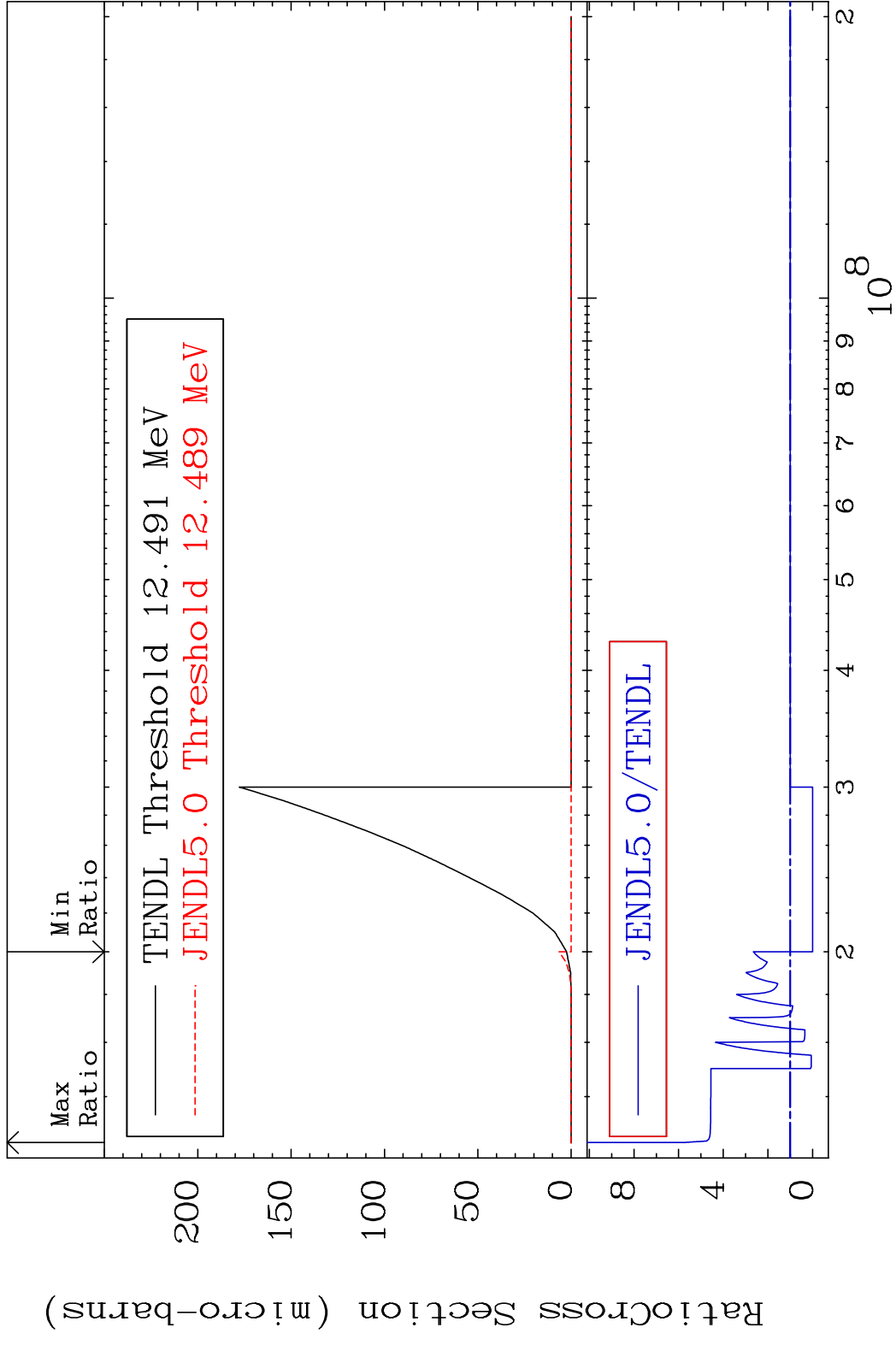


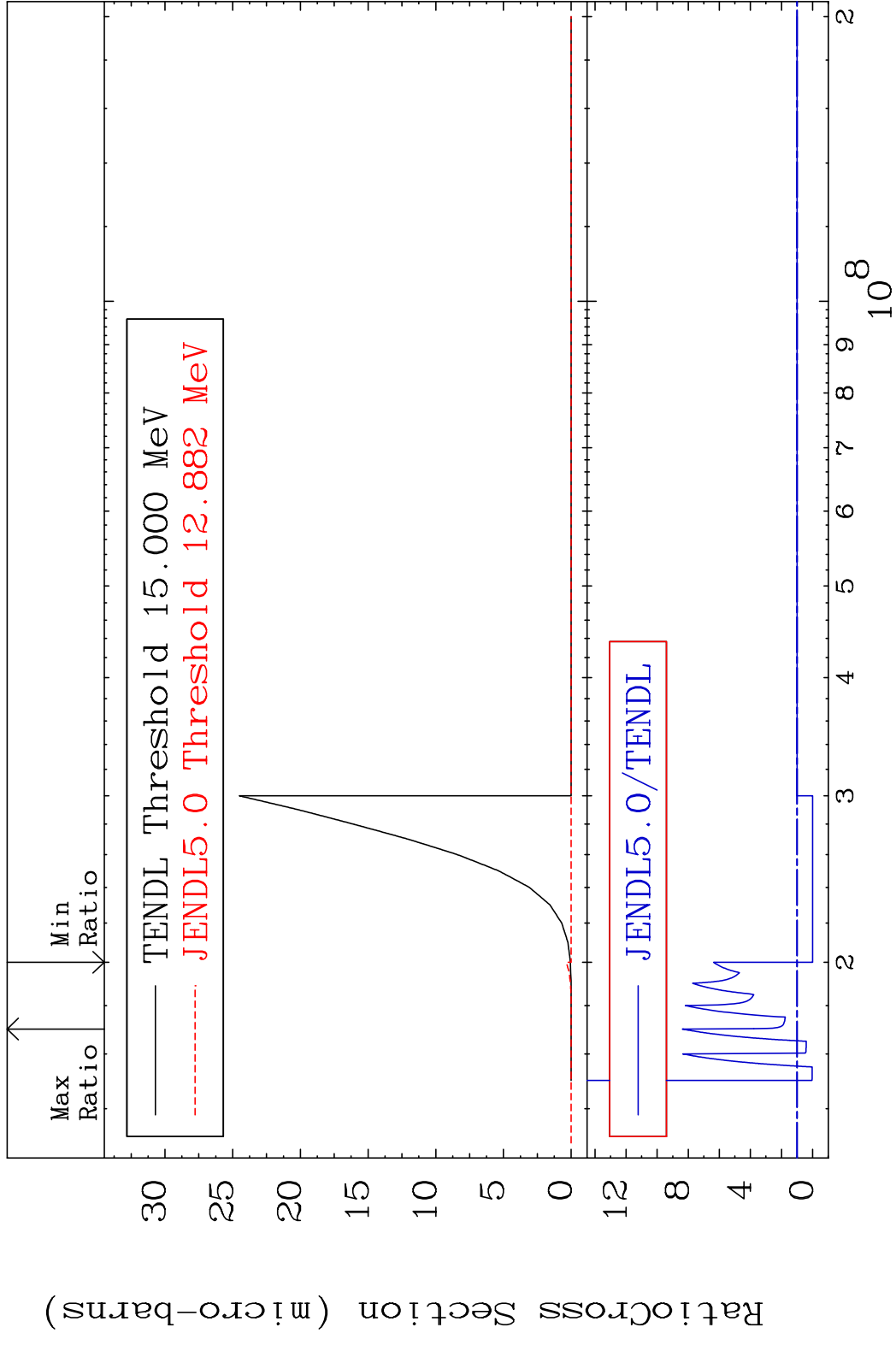
78 Incident Energy (eV) 40-Zr-89



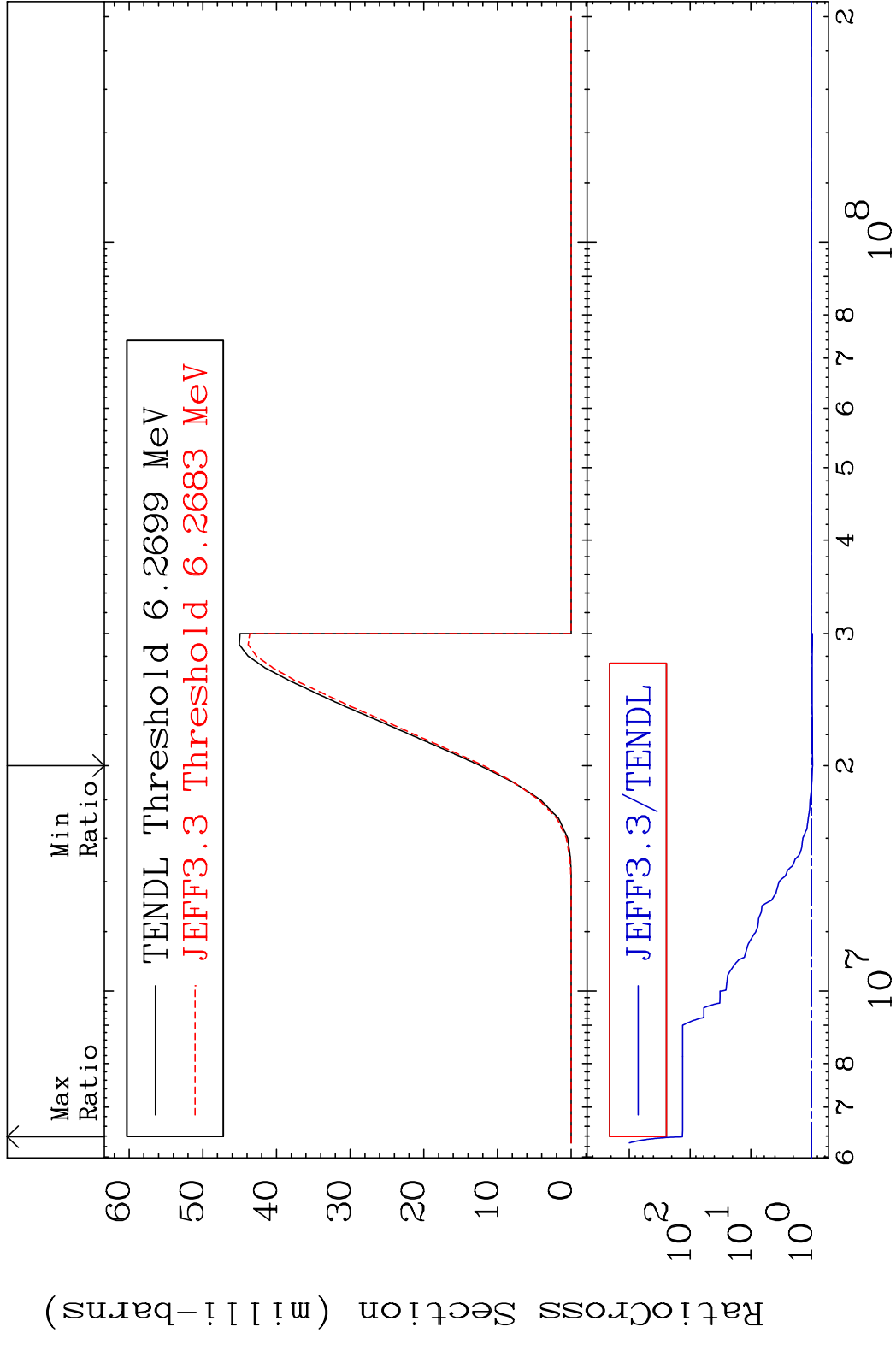


MAT 4022 (n, p) d:38-Sr-87g 40-Zr-89
 Radionuclide Production Cross Section 180.0 dth 483.2 %

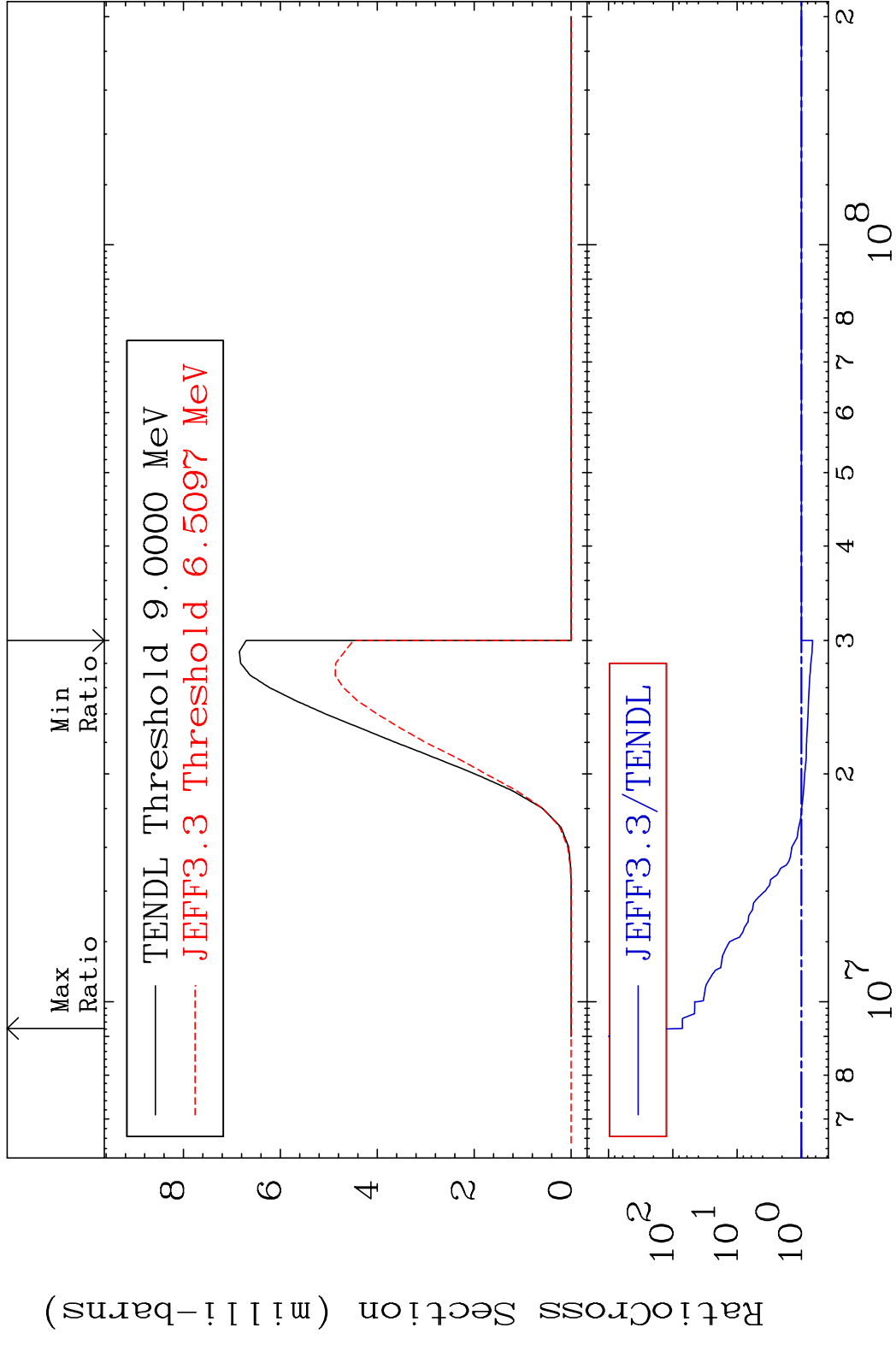


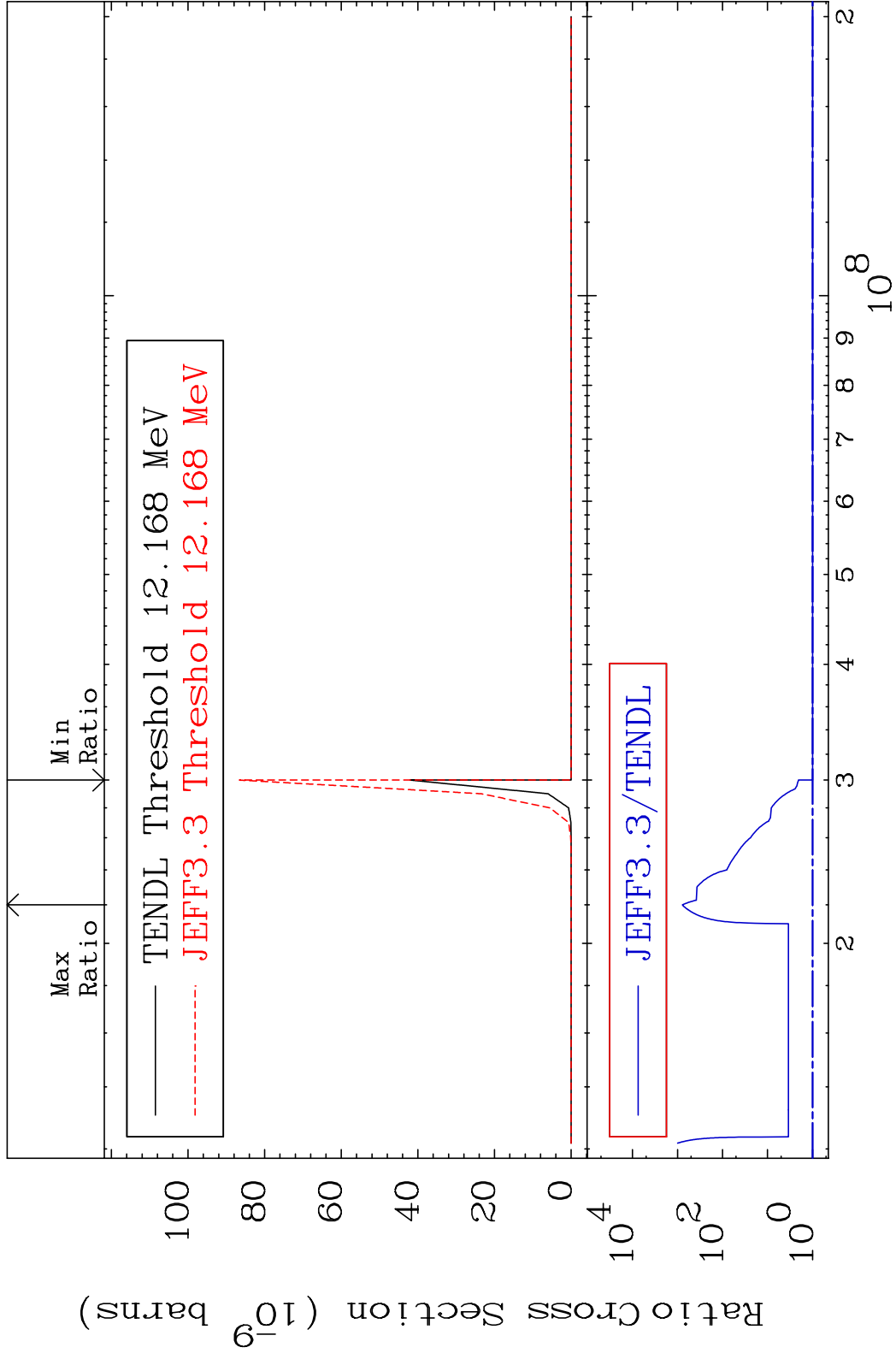


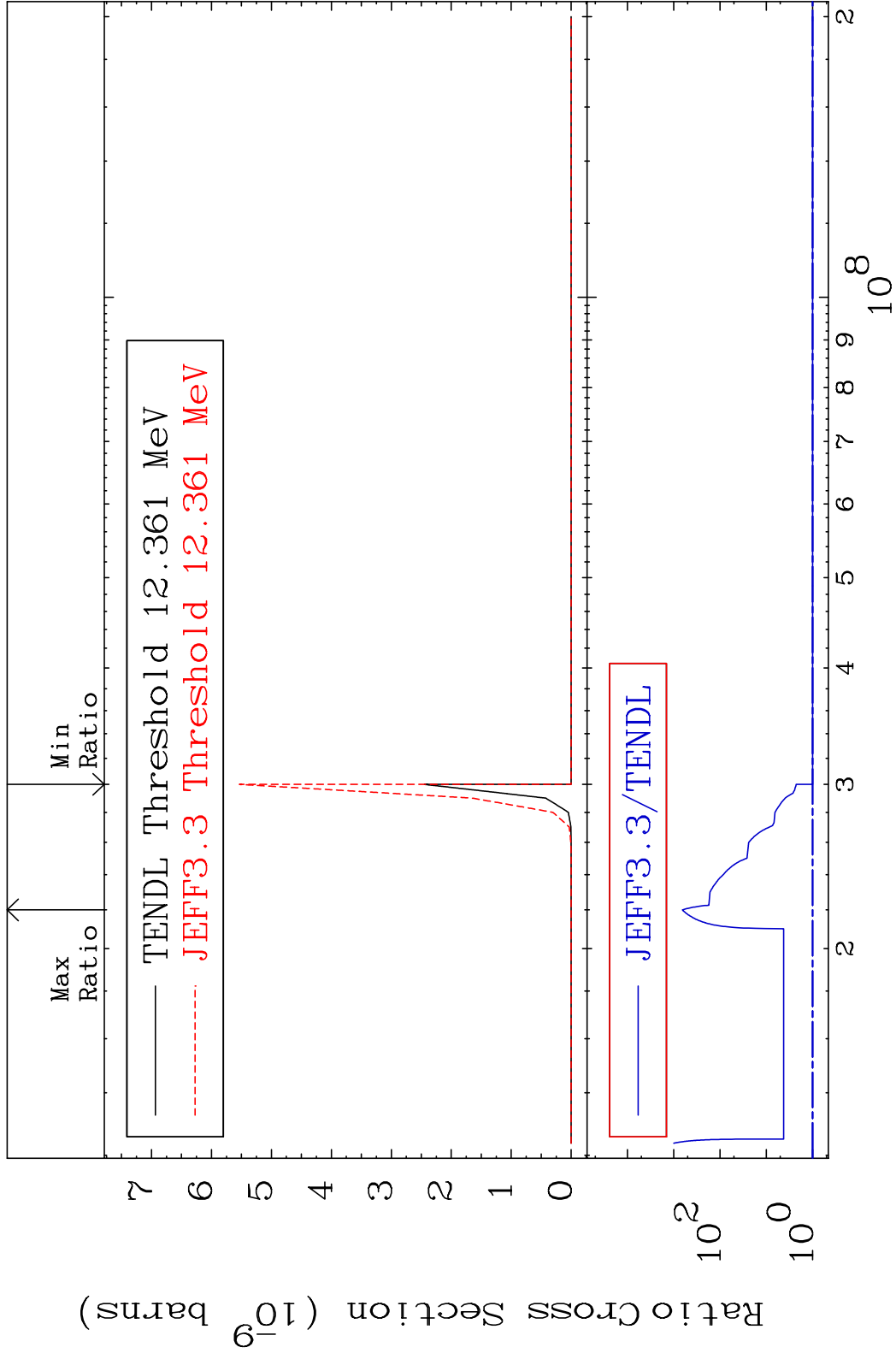
MAT 4022 (n, n') α :38-Sr-85g 40-Zr-89
 Radionuclide Production Cross Section 9999. %



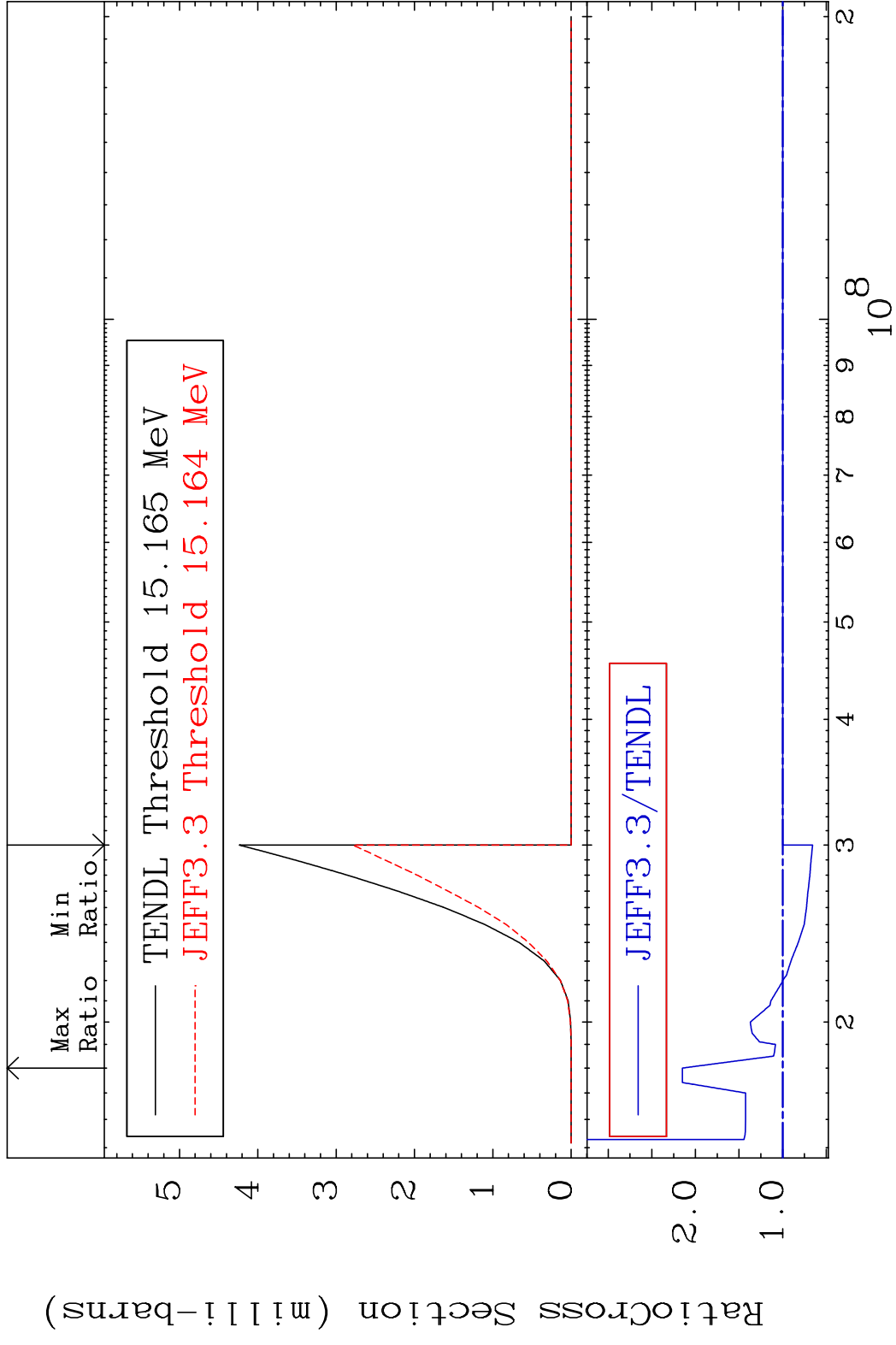
MAT 4022 (n, n') α :38-Sr-85m2 40-Zr-89
 Radionuclide Production Cross Section 6990. %

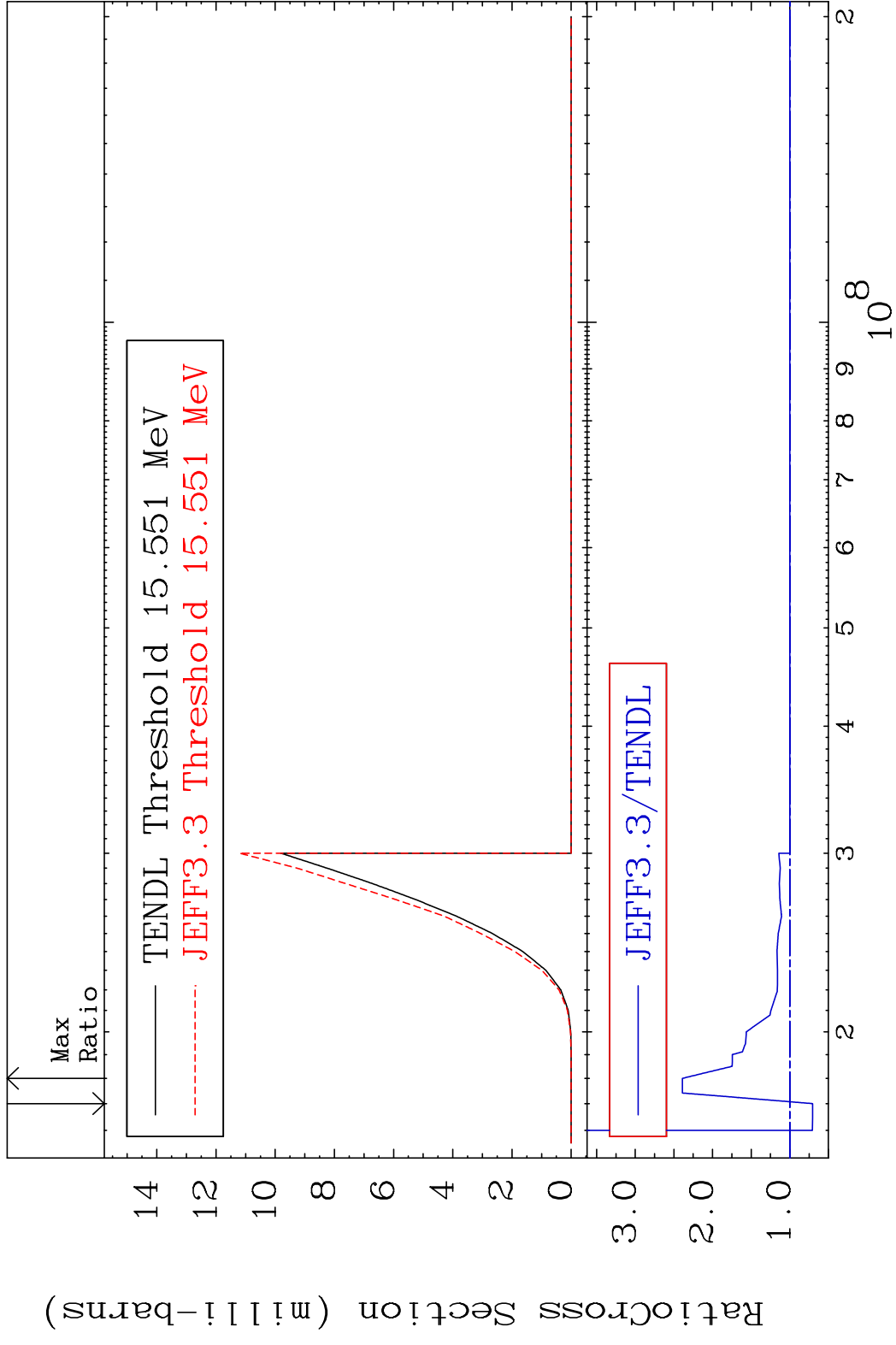




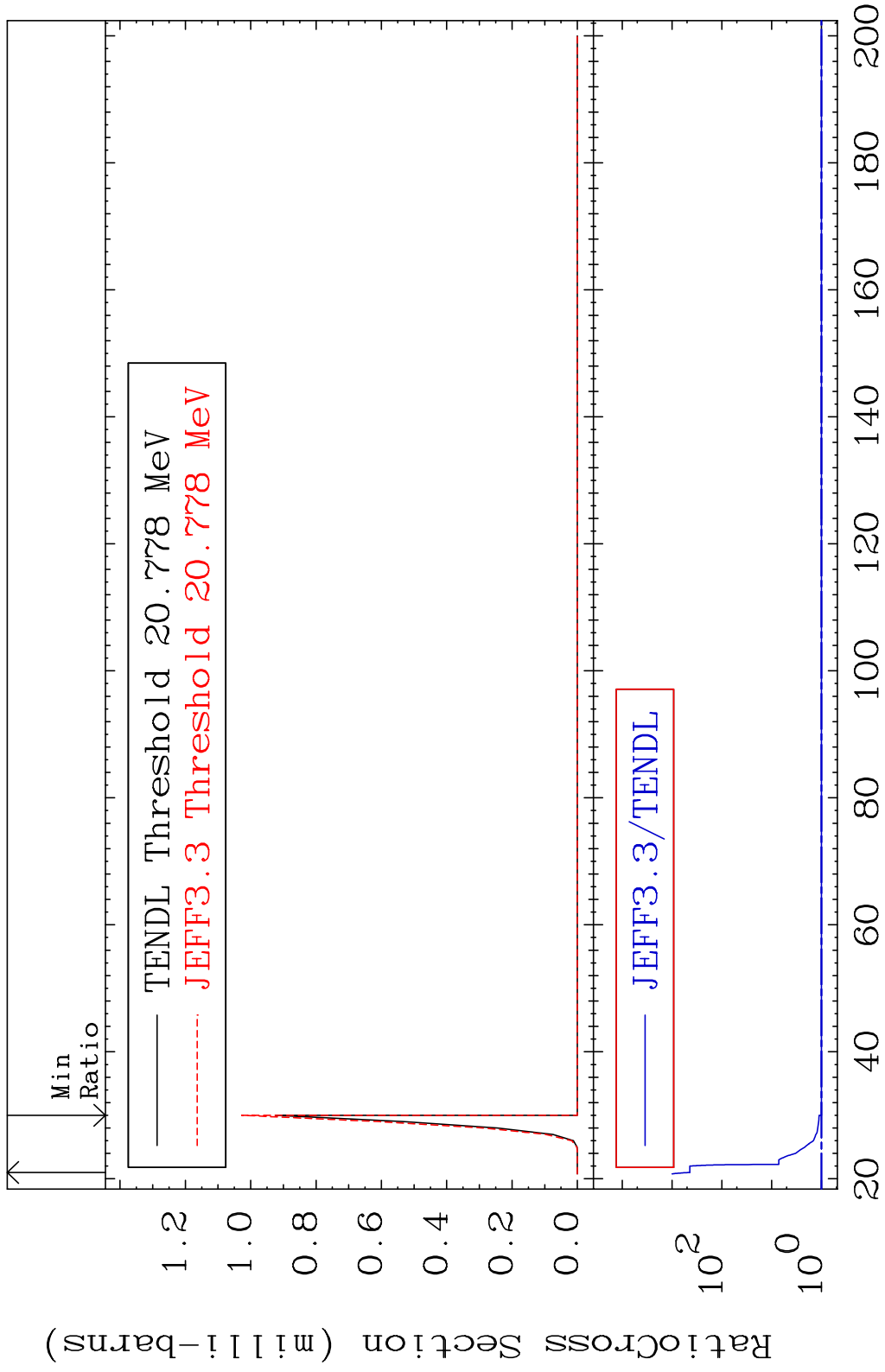


MAT 4022 (n, n') d:39-Y -87g 40-Zr-89
 Radionuclide Production Cross Section 115.0 %

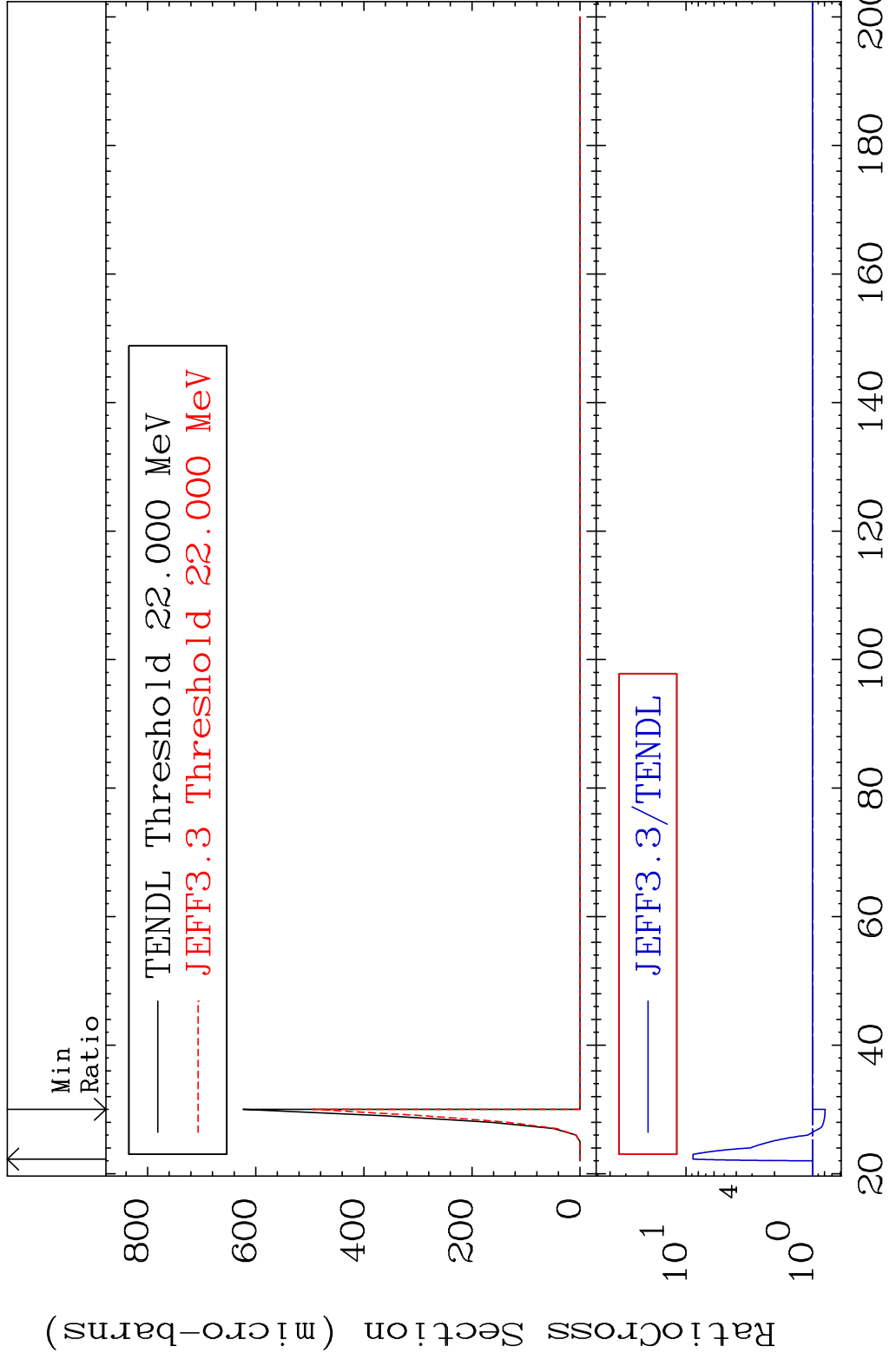




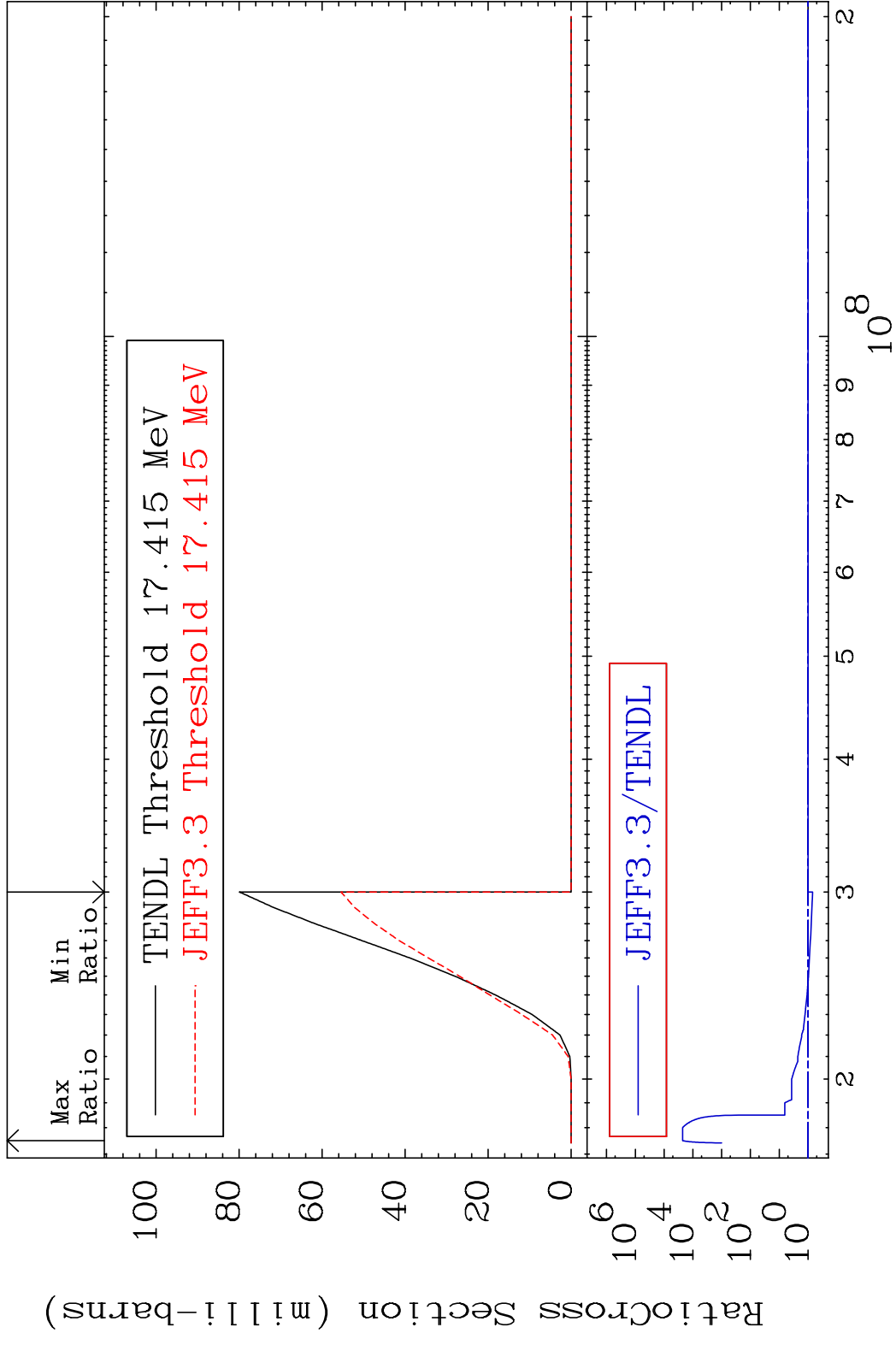
MAT 4022 (n, n') t:39-Y -86g 40-Zr-89
 Radionuclide Production Cross Section 9999. %

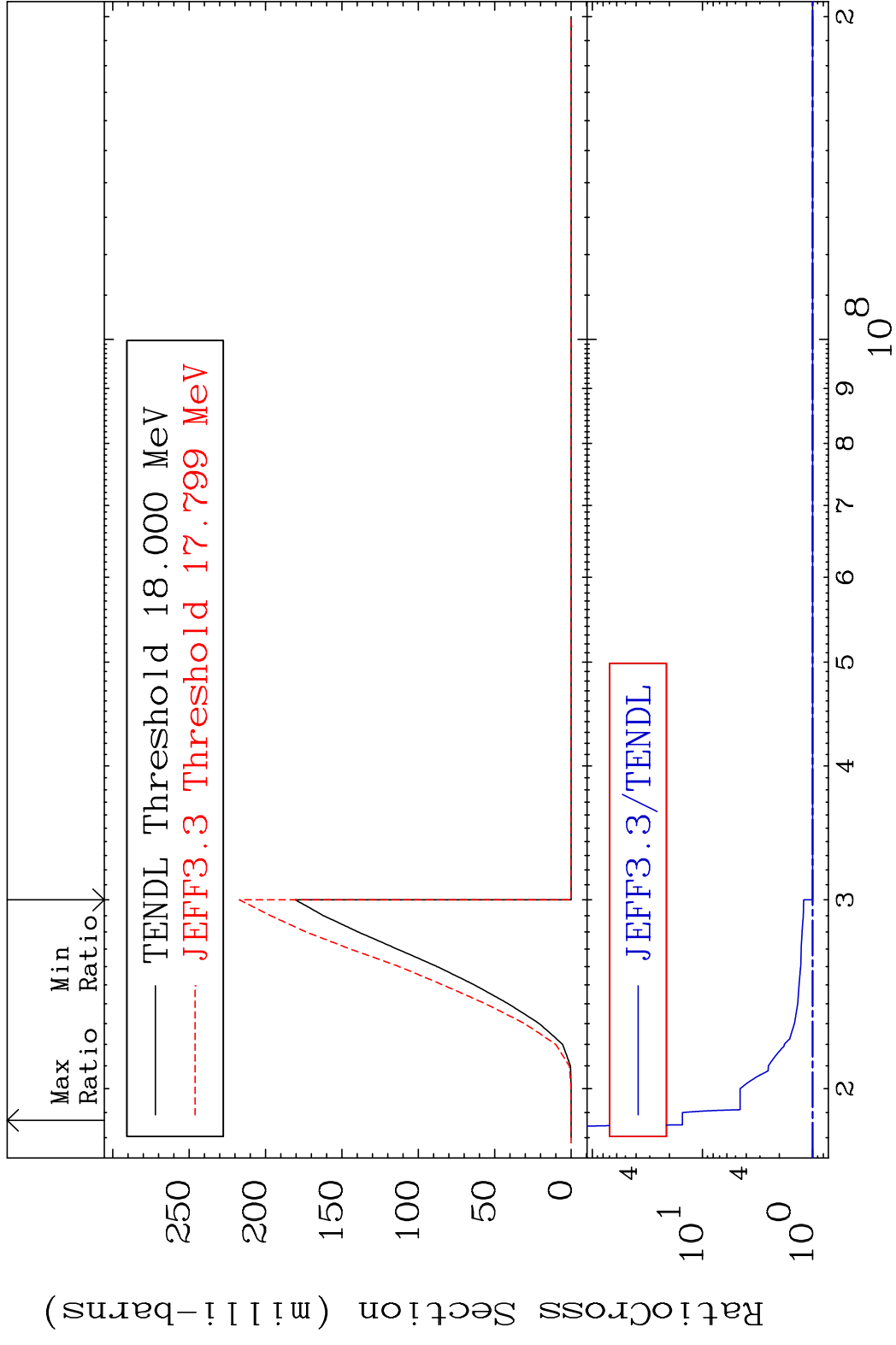


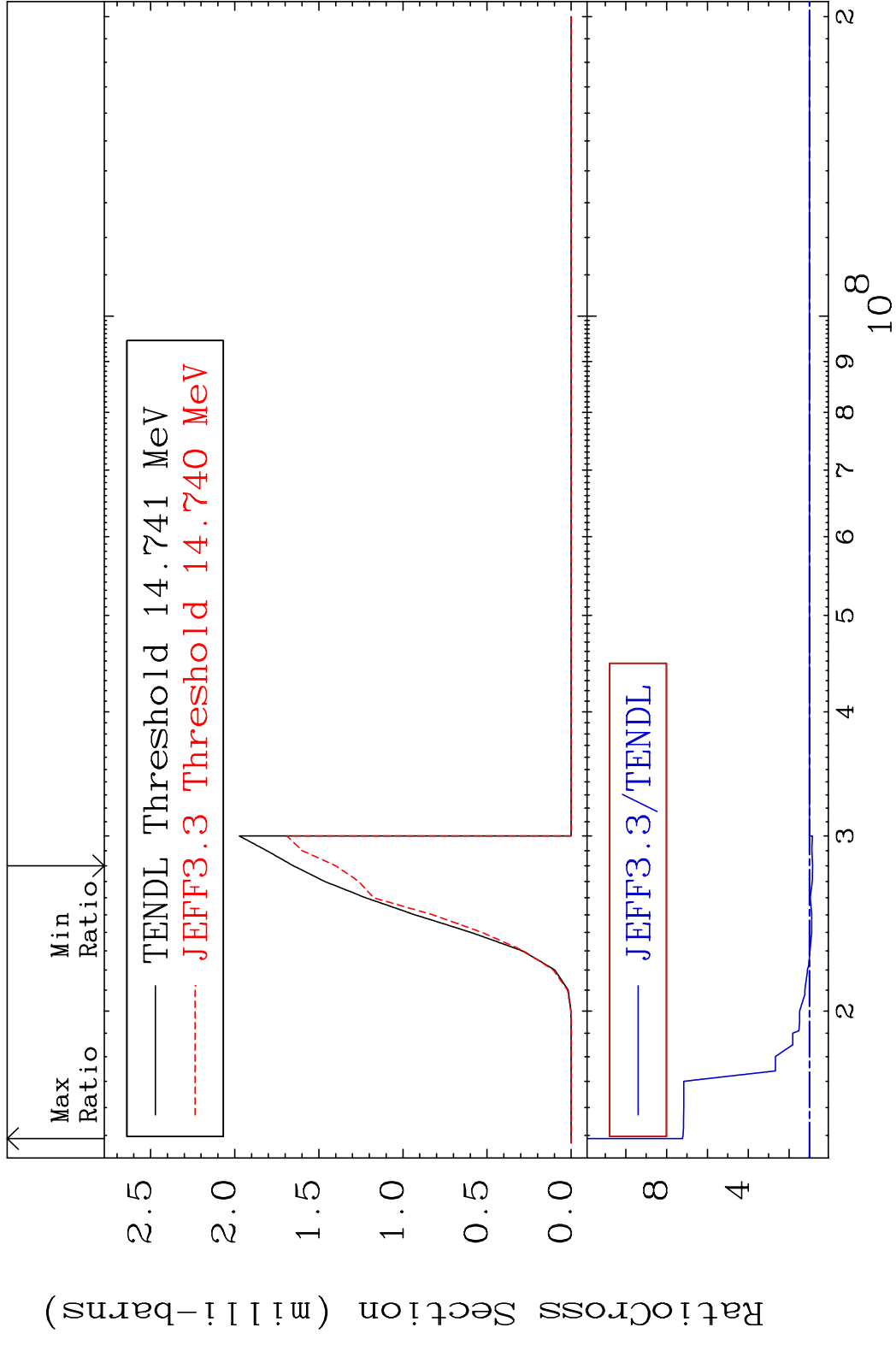
MAT 4022 (n, n') t:39-Y -86m2 40-Zr-89
 Radionuclide Production Cross Section 783.2 %

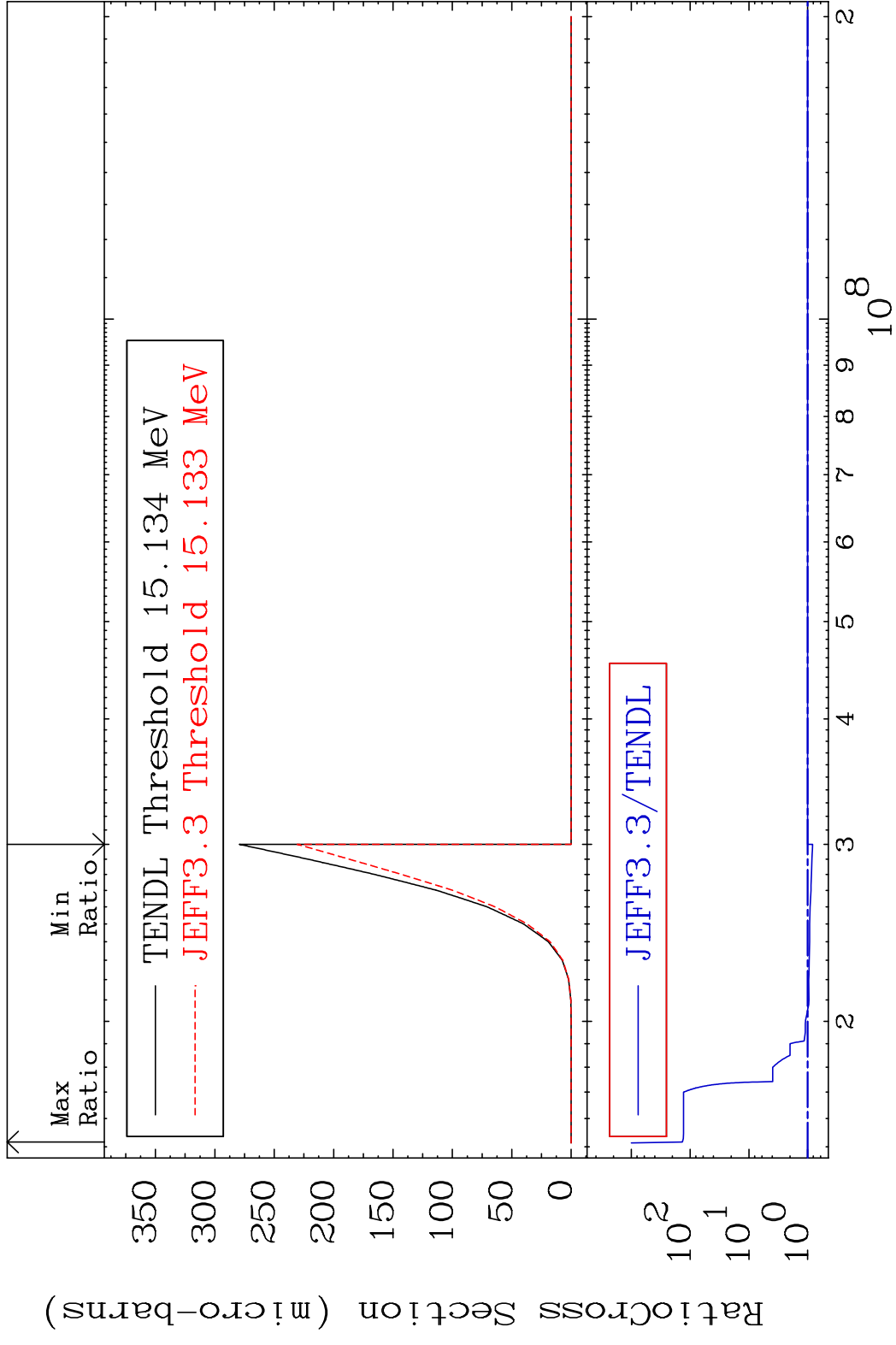


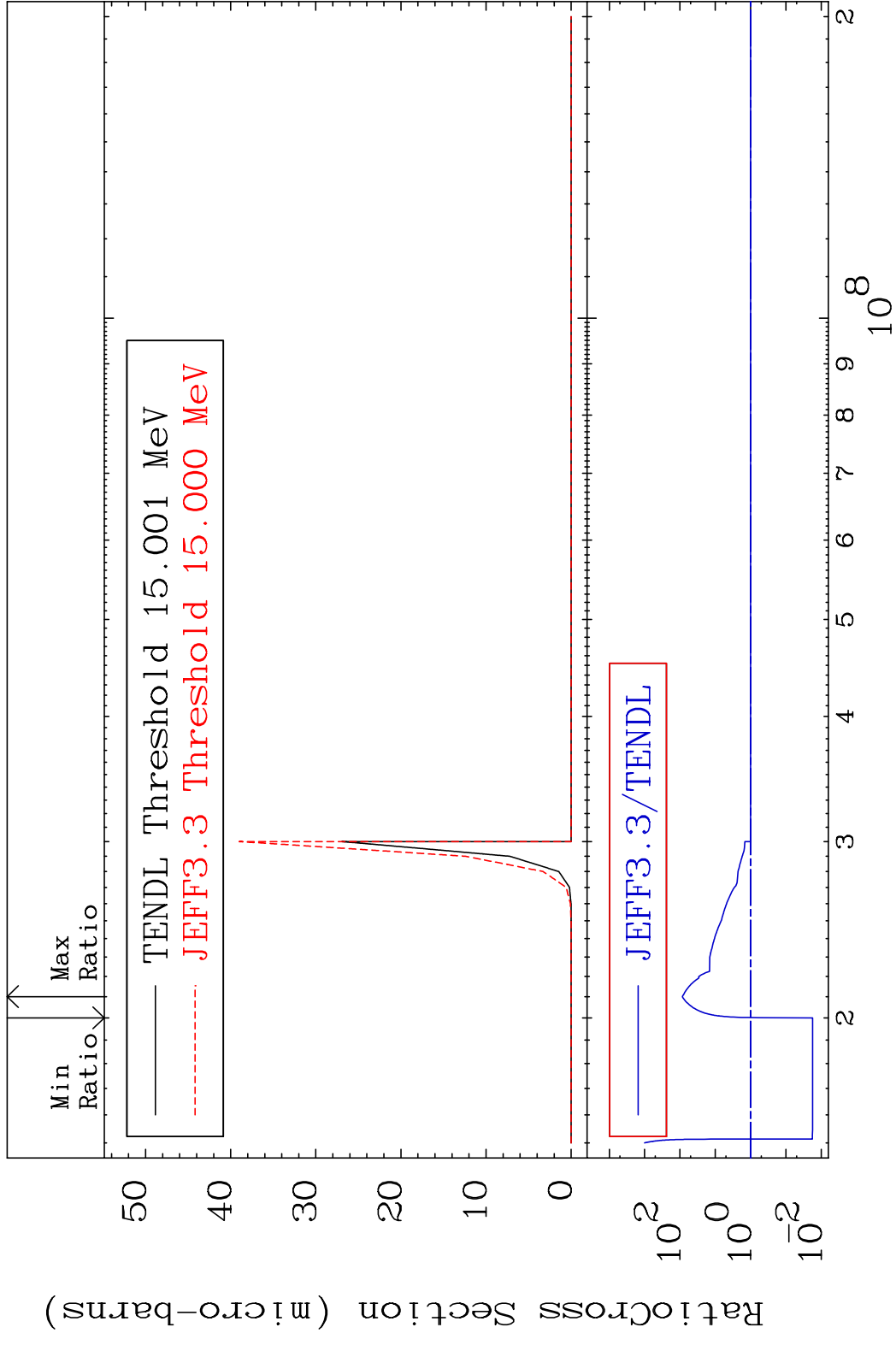
90 Incident Energy (MeV) 40-Zr-89

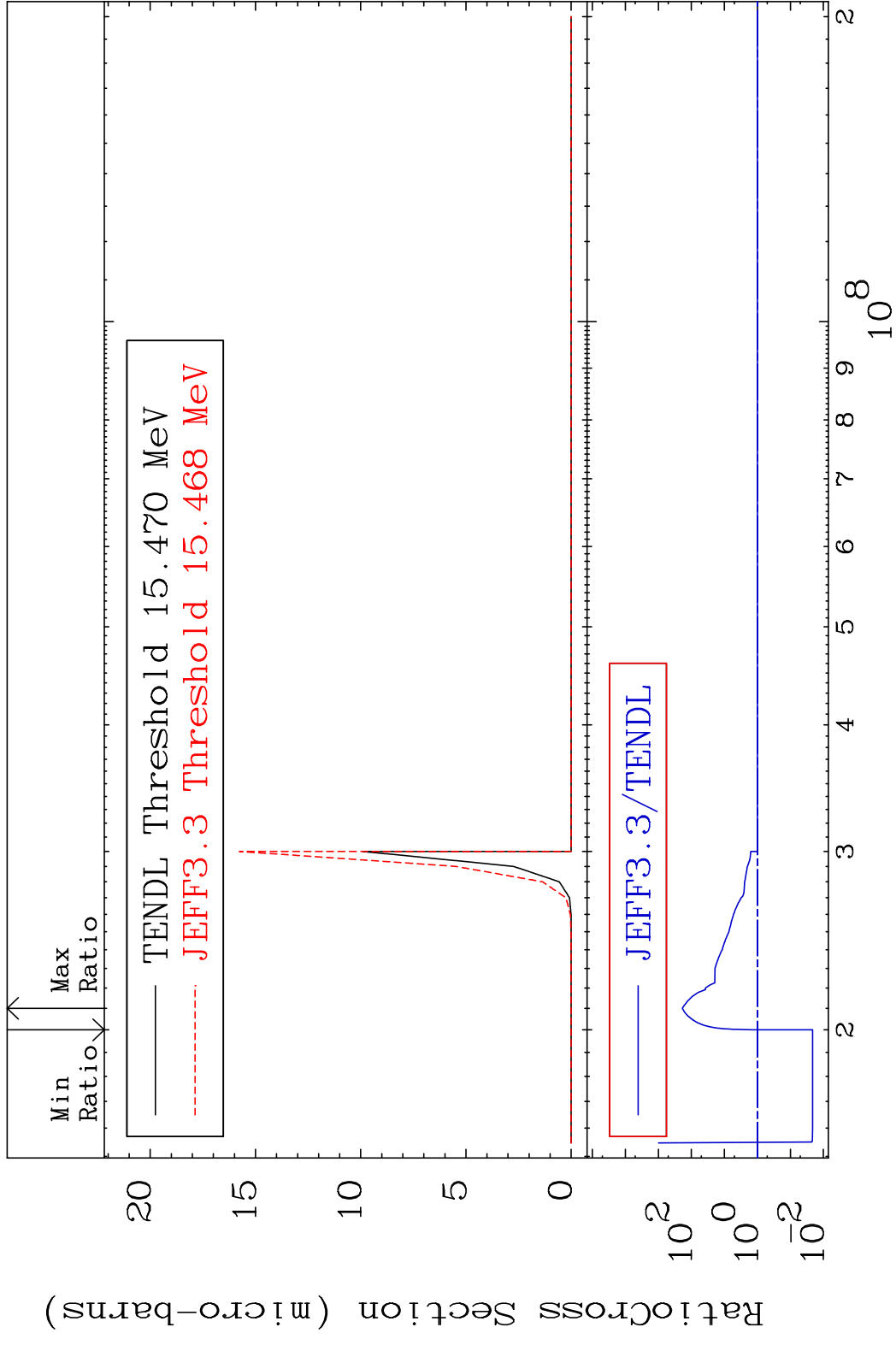


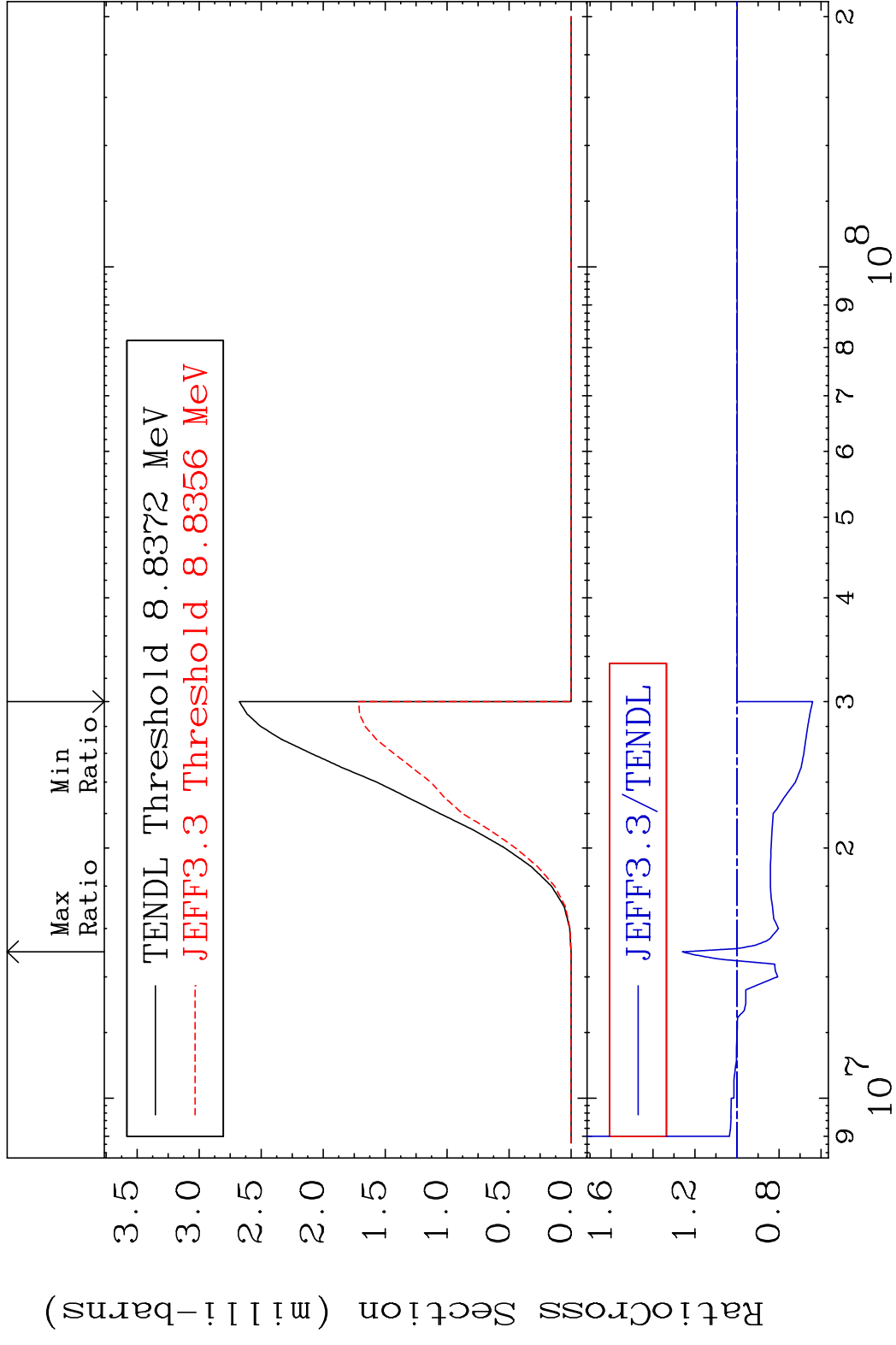




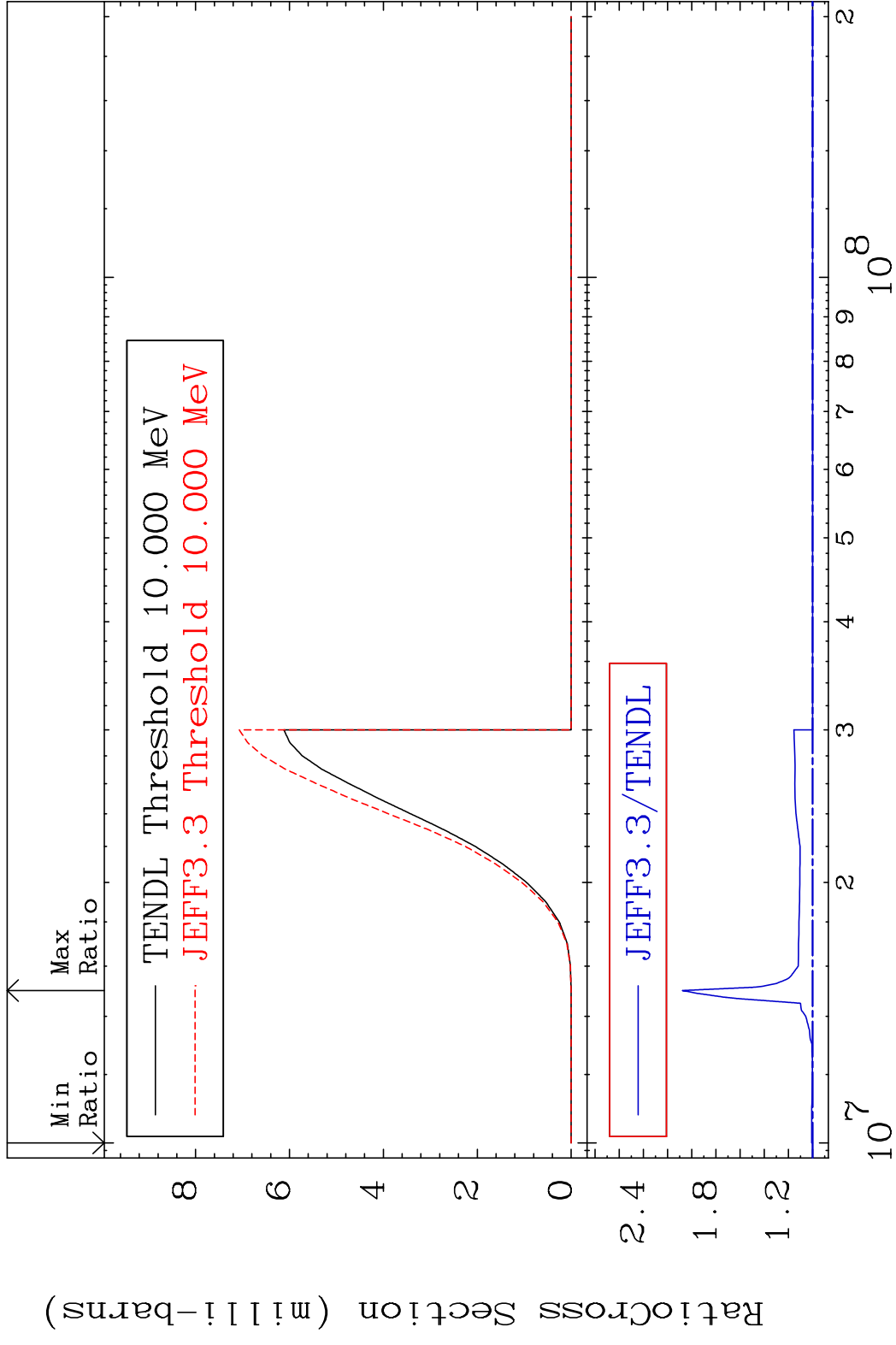




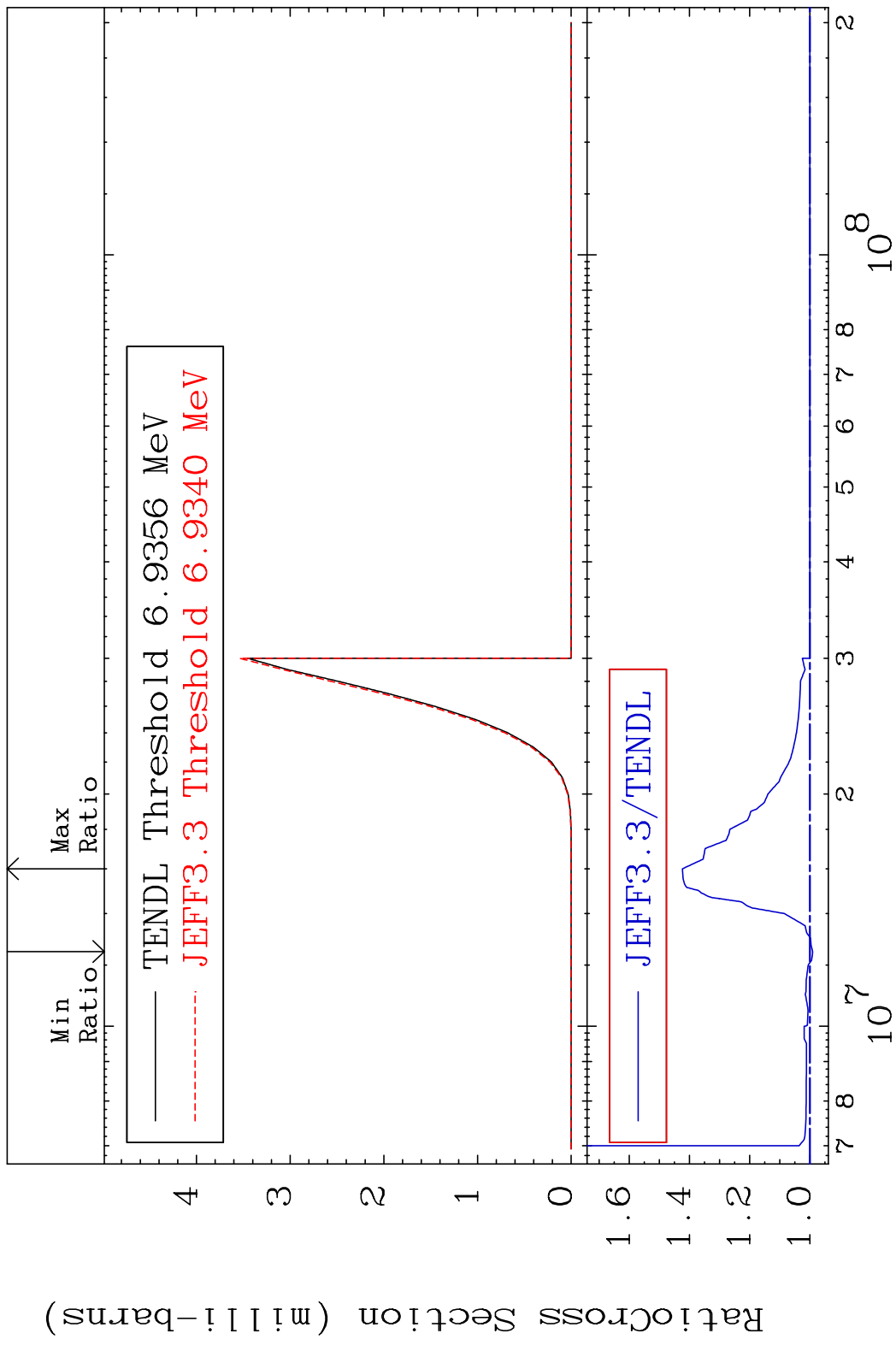




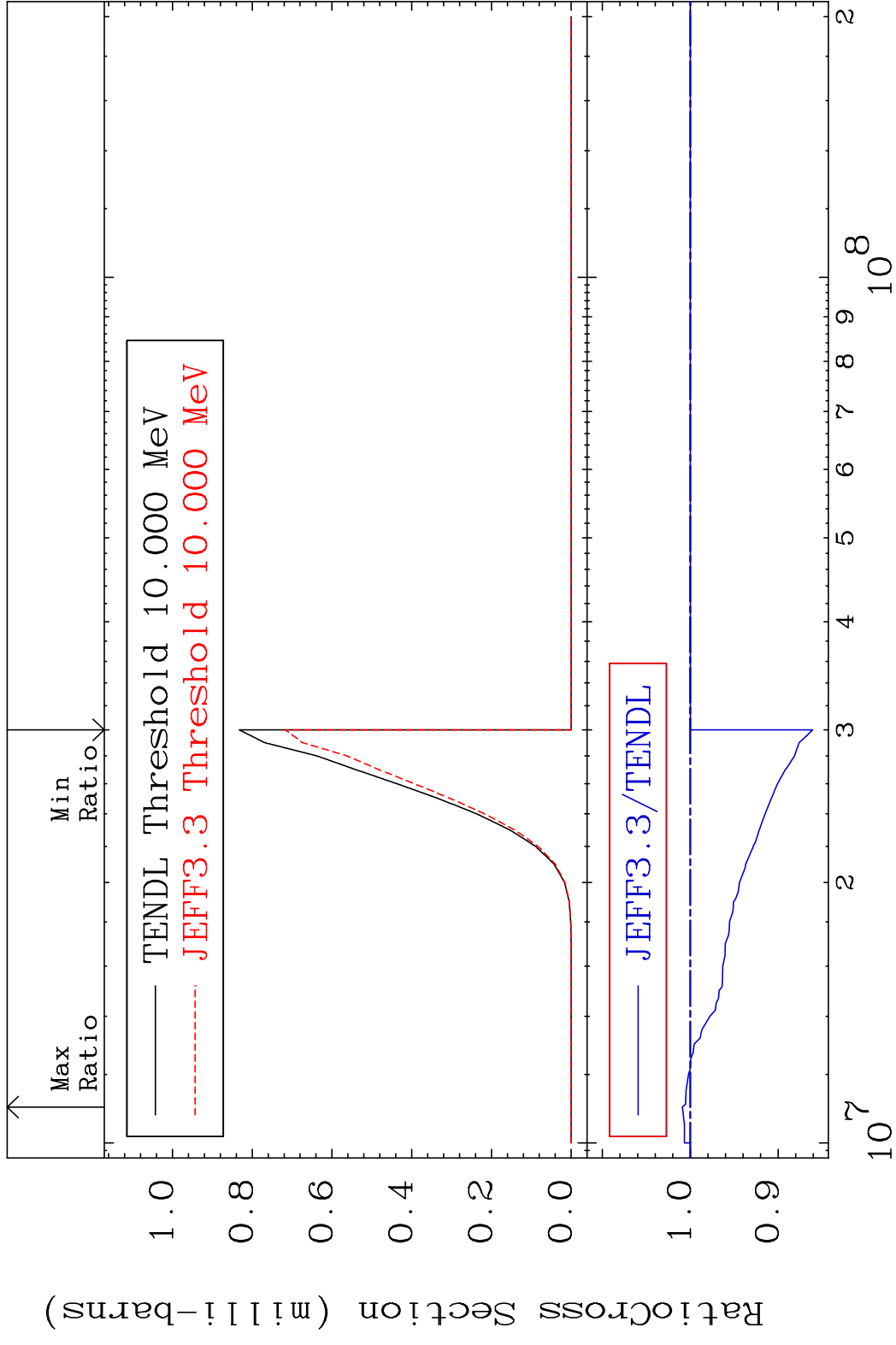
MAT 4022 (n,t):39-Y-87m1 40-Zr-89
 Radionuclide Production Cross Section 107.8 %



98 Incident Energy (eV) 40-Zr-89



MAT 4022 (n, He-3) : 38-Sr-87m1 40-Zr-89
 Radionuclide Production Cross Section 136.91 mb 0.907 %



100 Incident Energy (eV) 40-Zr-89

