

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

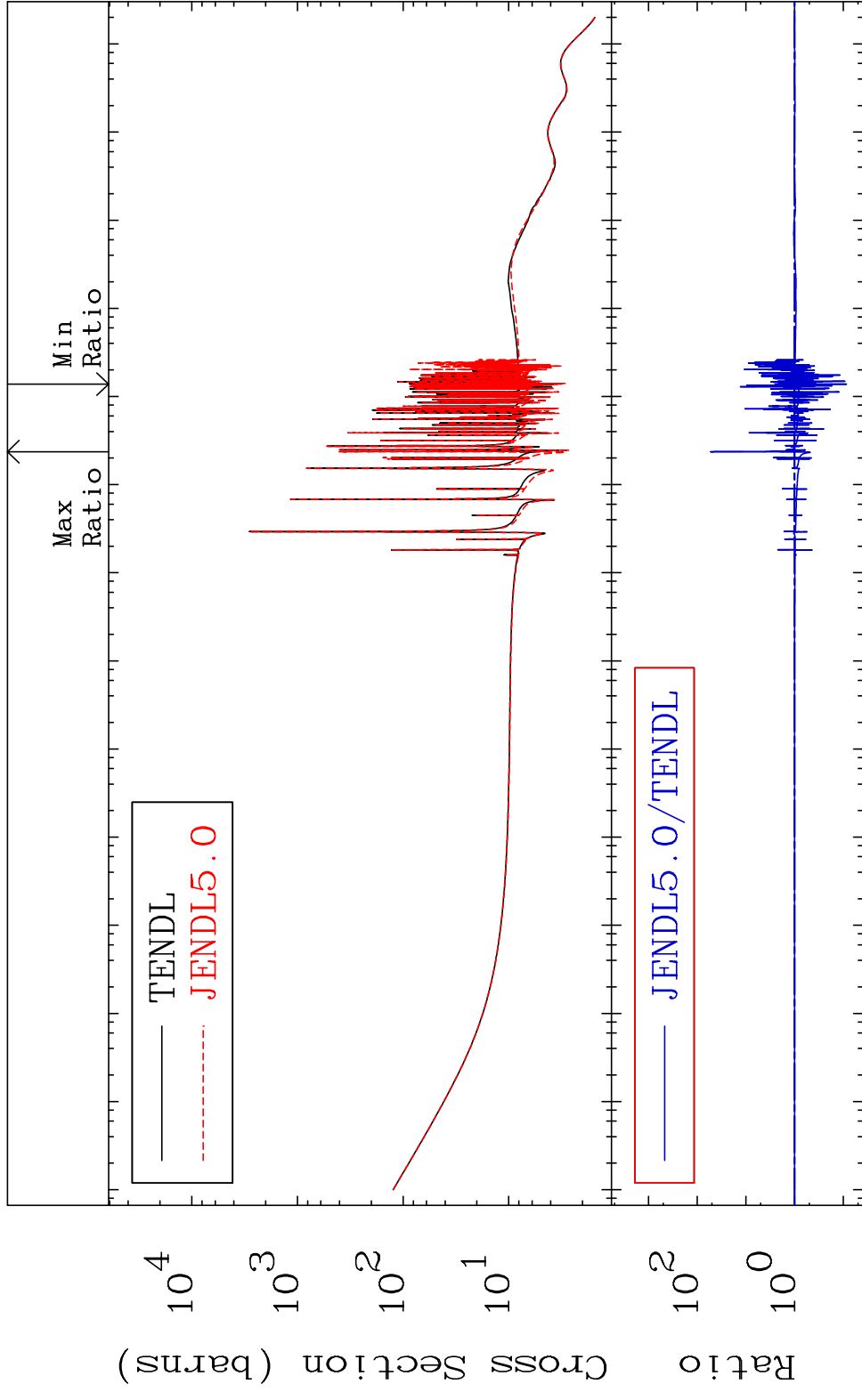
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 4028

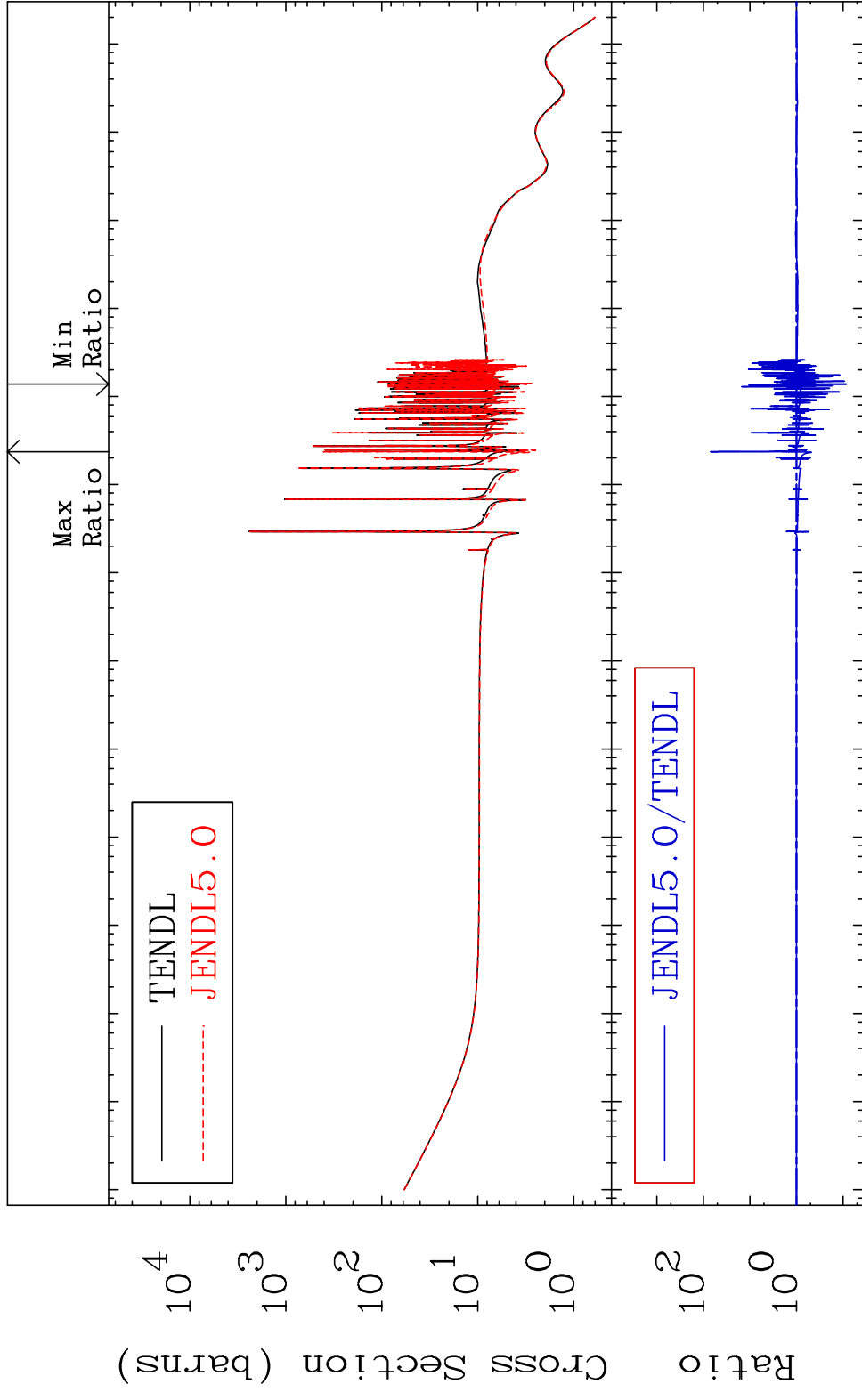
Total Cross Section
40-Zr-91
-91.33 To 5177. %



1 Incident Energy (eV) 40-Zr-91

MAT 4028

Elastic Cross Section -91.52 To 6854. %
40-Zr-91

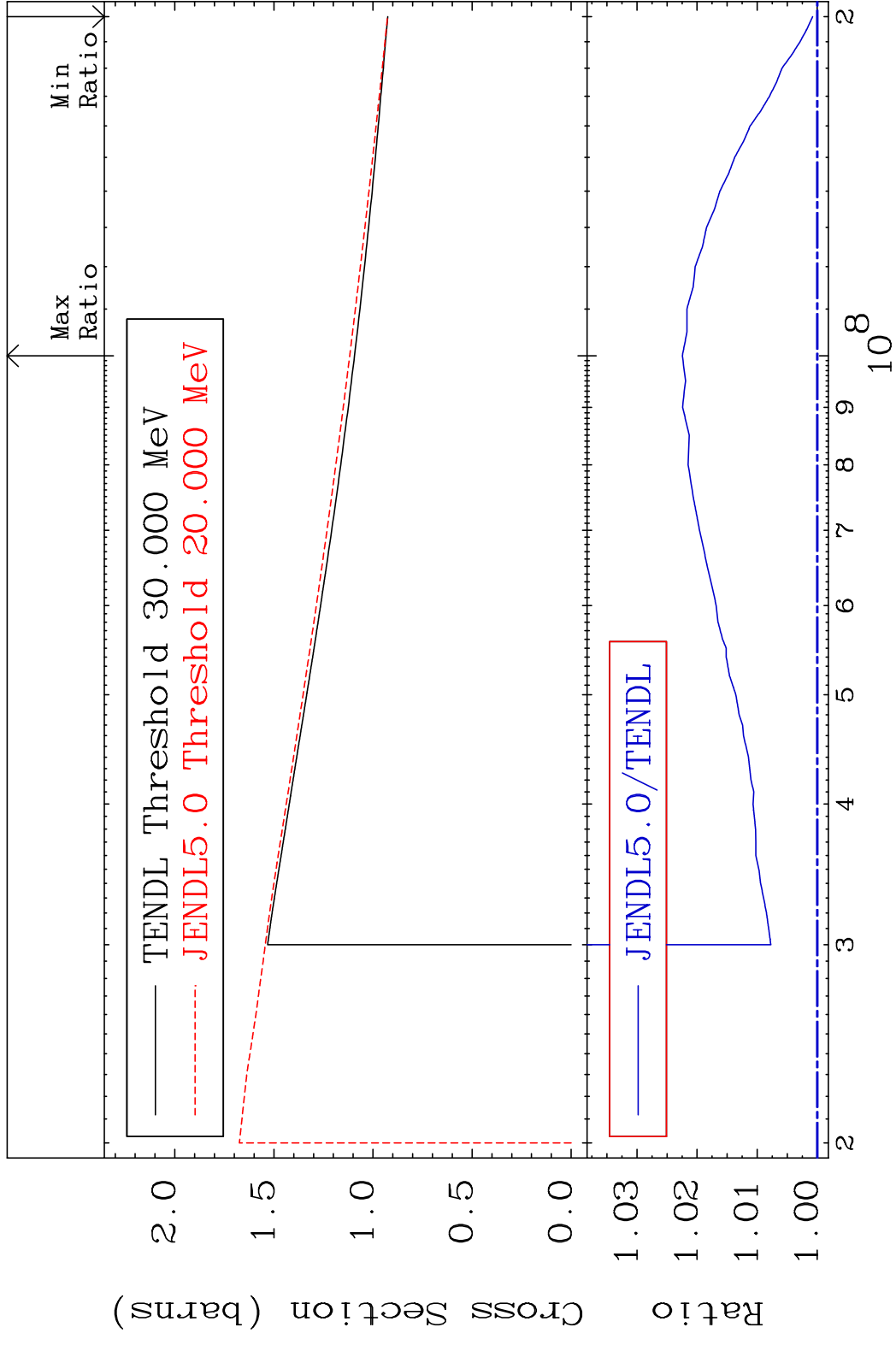


2

Incident Energy (eV)

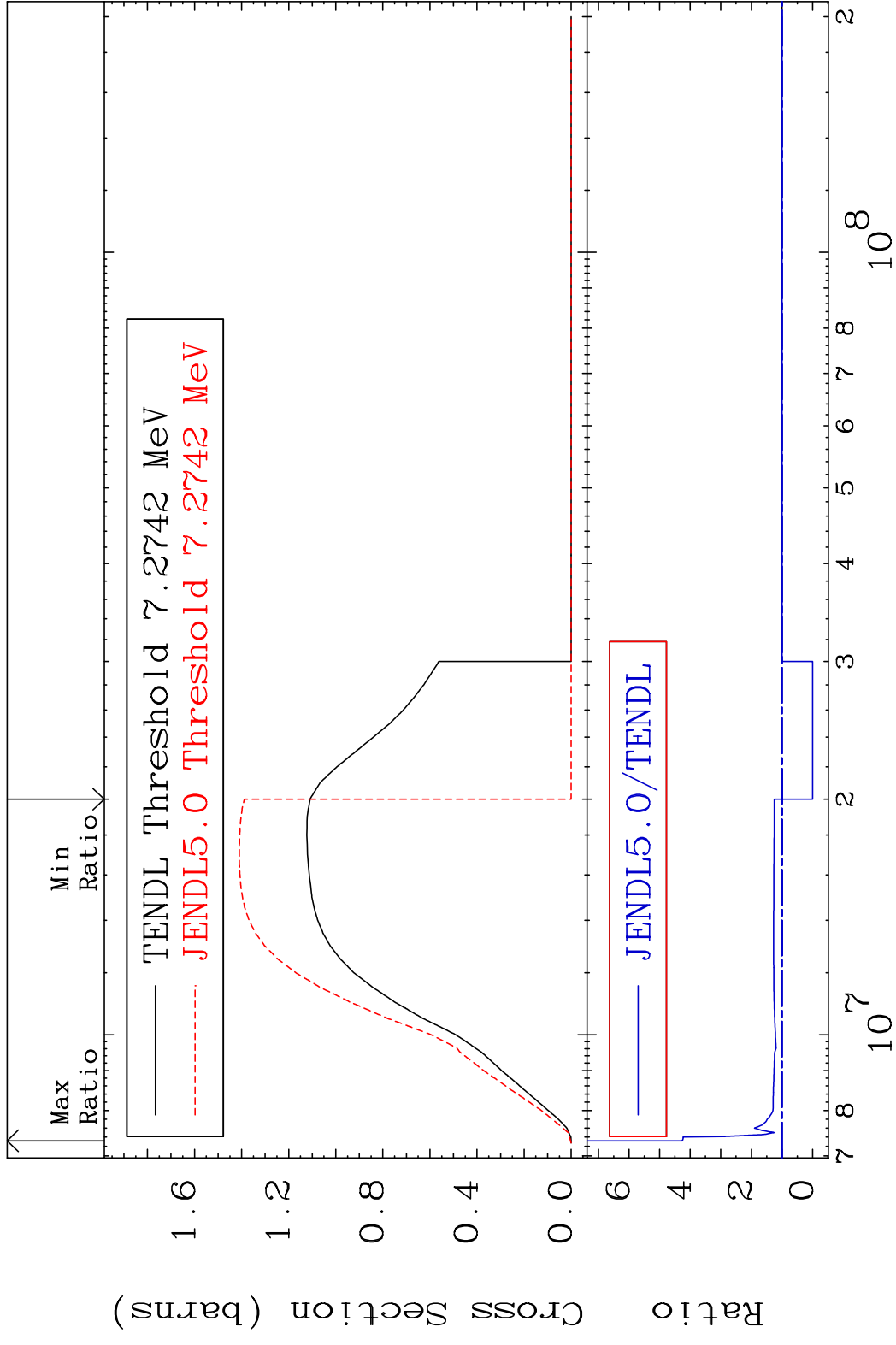
40-Zr-91

MAT 4028 (n, remainder) 40-Zr-91
 Cross Section 0.078 To 2.245 %



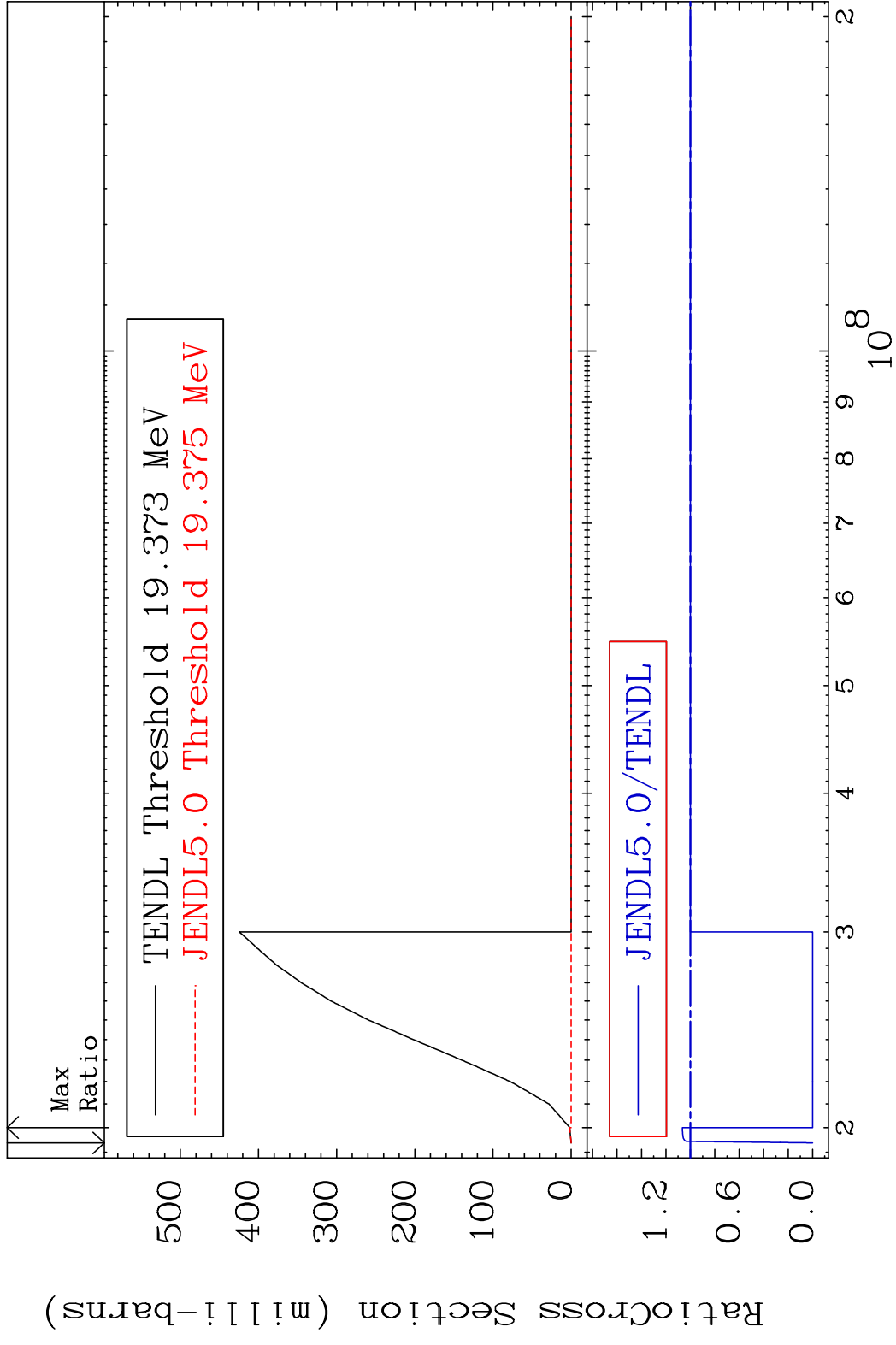
4 Incident Energy (eV) 40-Zr-91

MAT 4028 (n,2n) 40-Zr-91
 Cross Section -100.0 To 325.7 %

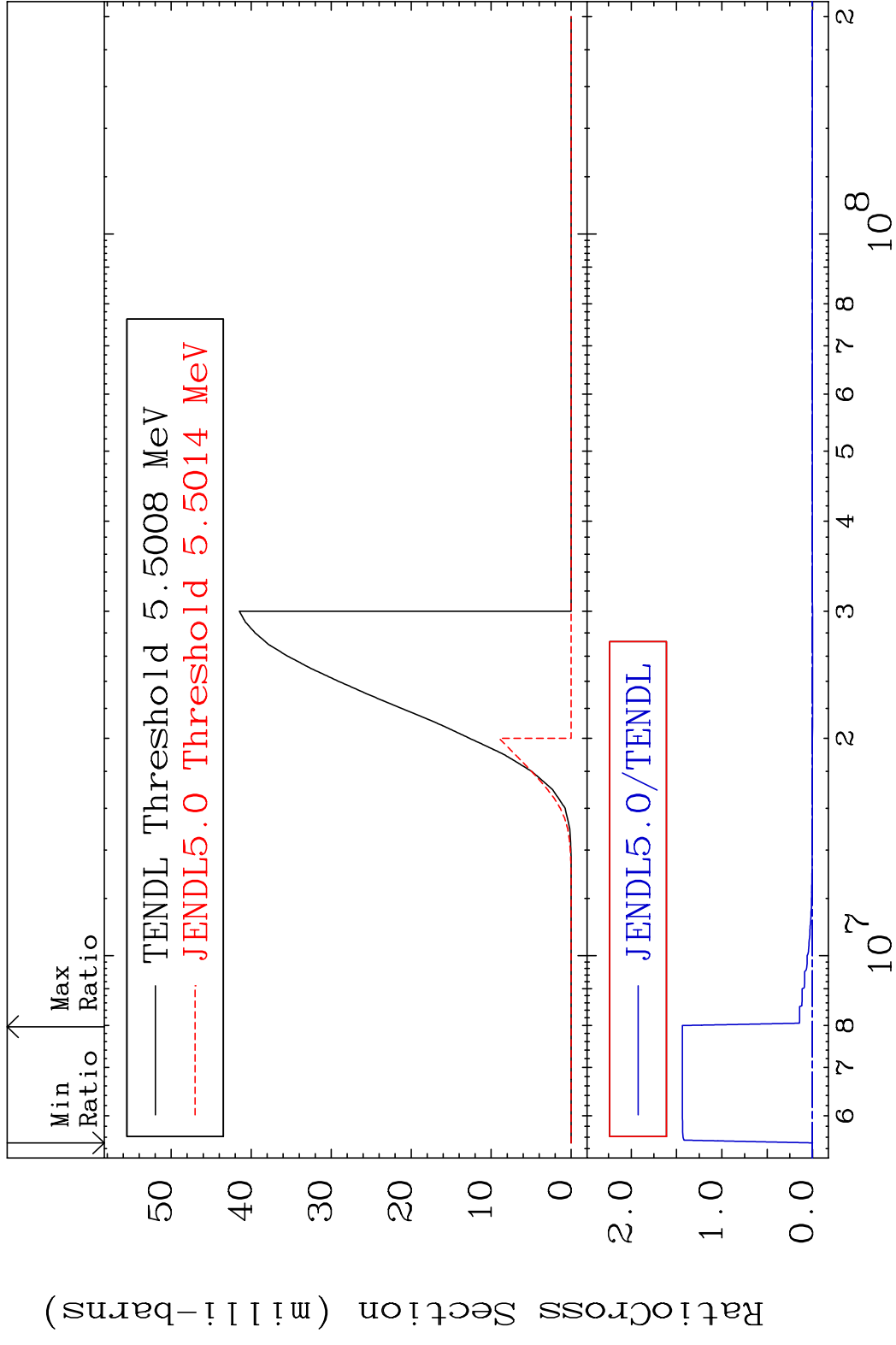


5 Incident Energy (eV) 40-Zr-91

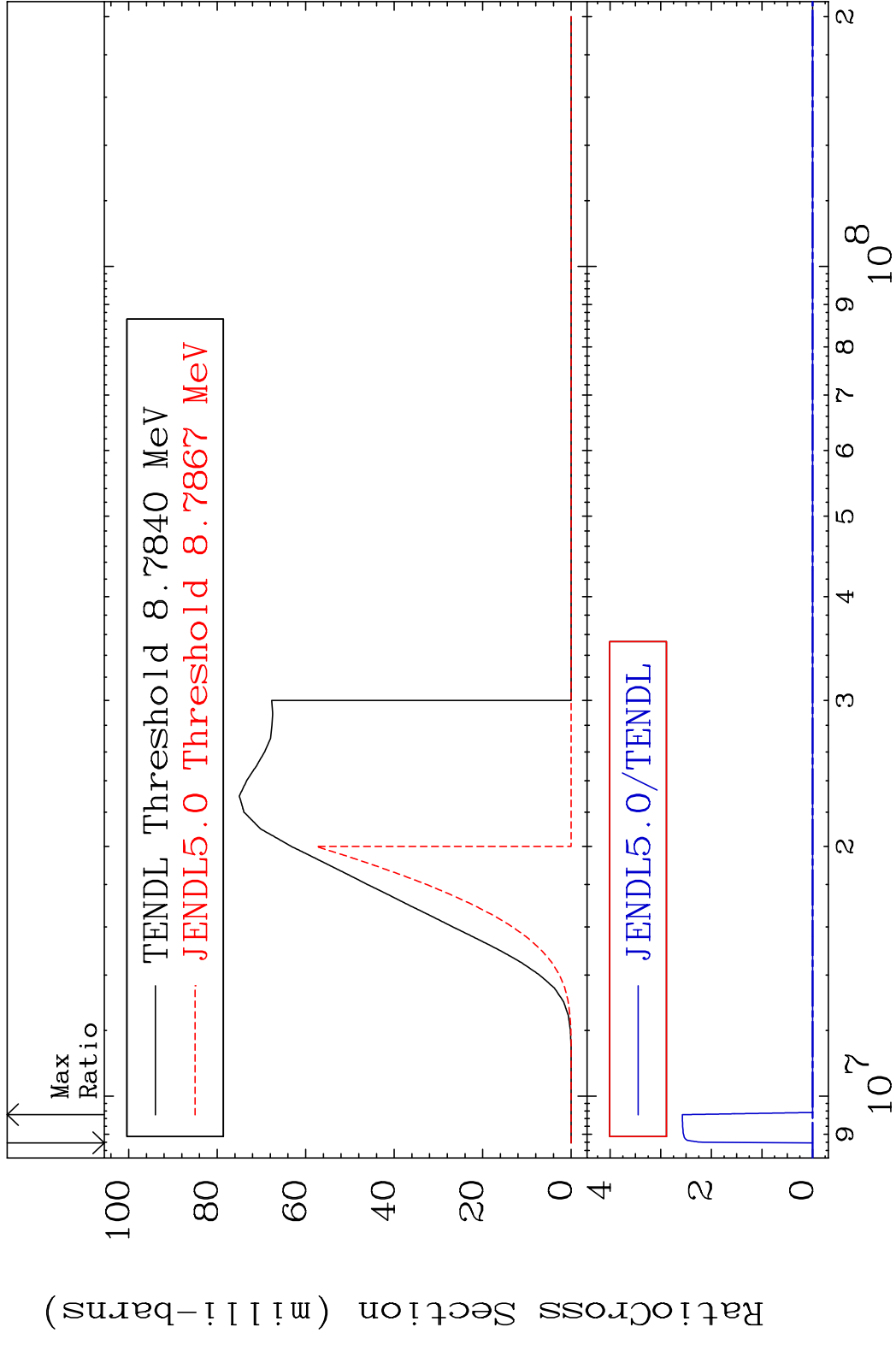
MAT 4028 (n,3n) 40-Zr-91
 Cross Section -100.0 To 6.544 %



MAT 4028 (n, n') α 40-Zr-91
 Cross Section -100.0 To 9999. %

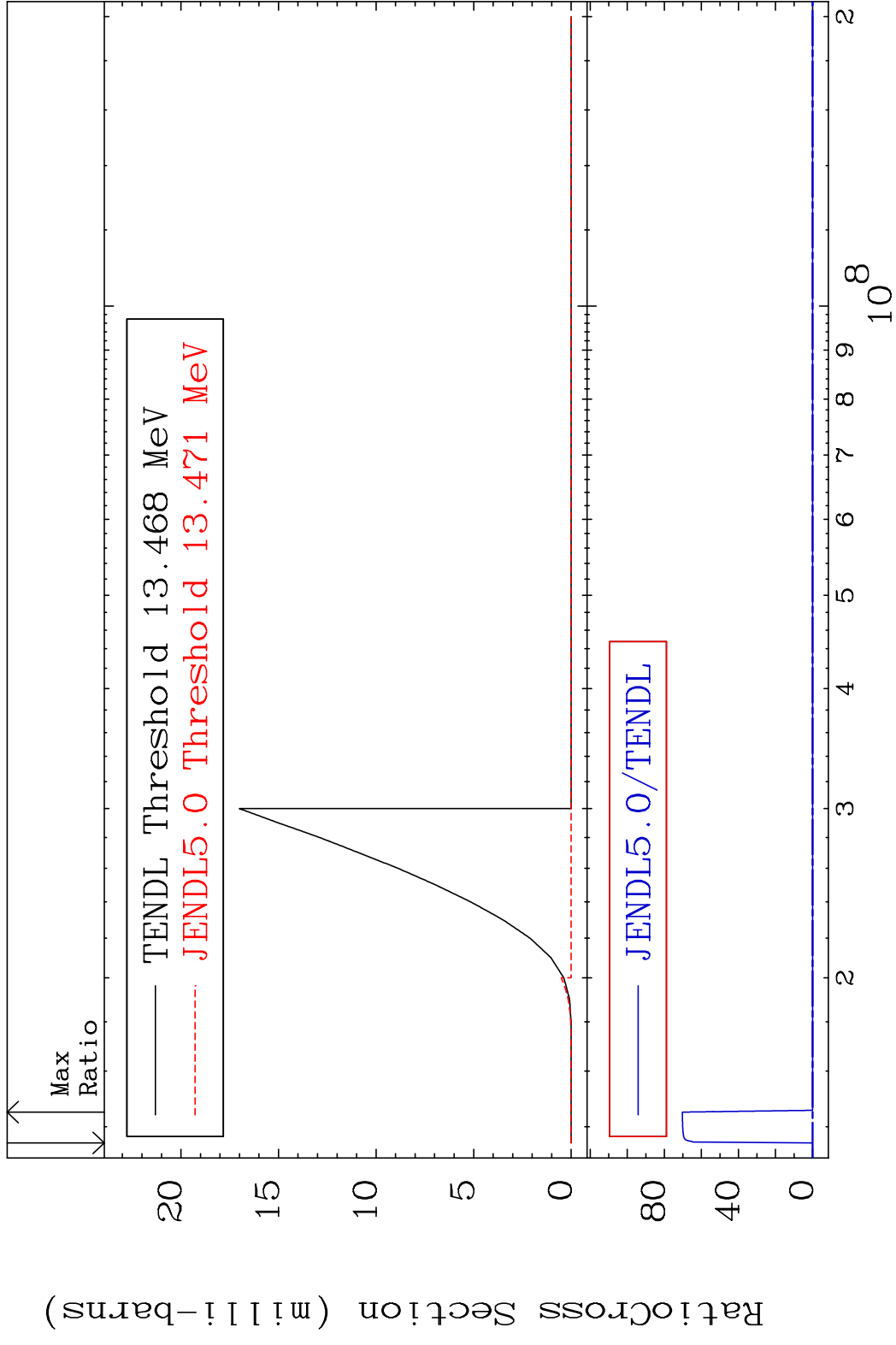


MAT 4028 (n, n') p 40-Zr-91
 Cross Section -100.0 To 9999. %

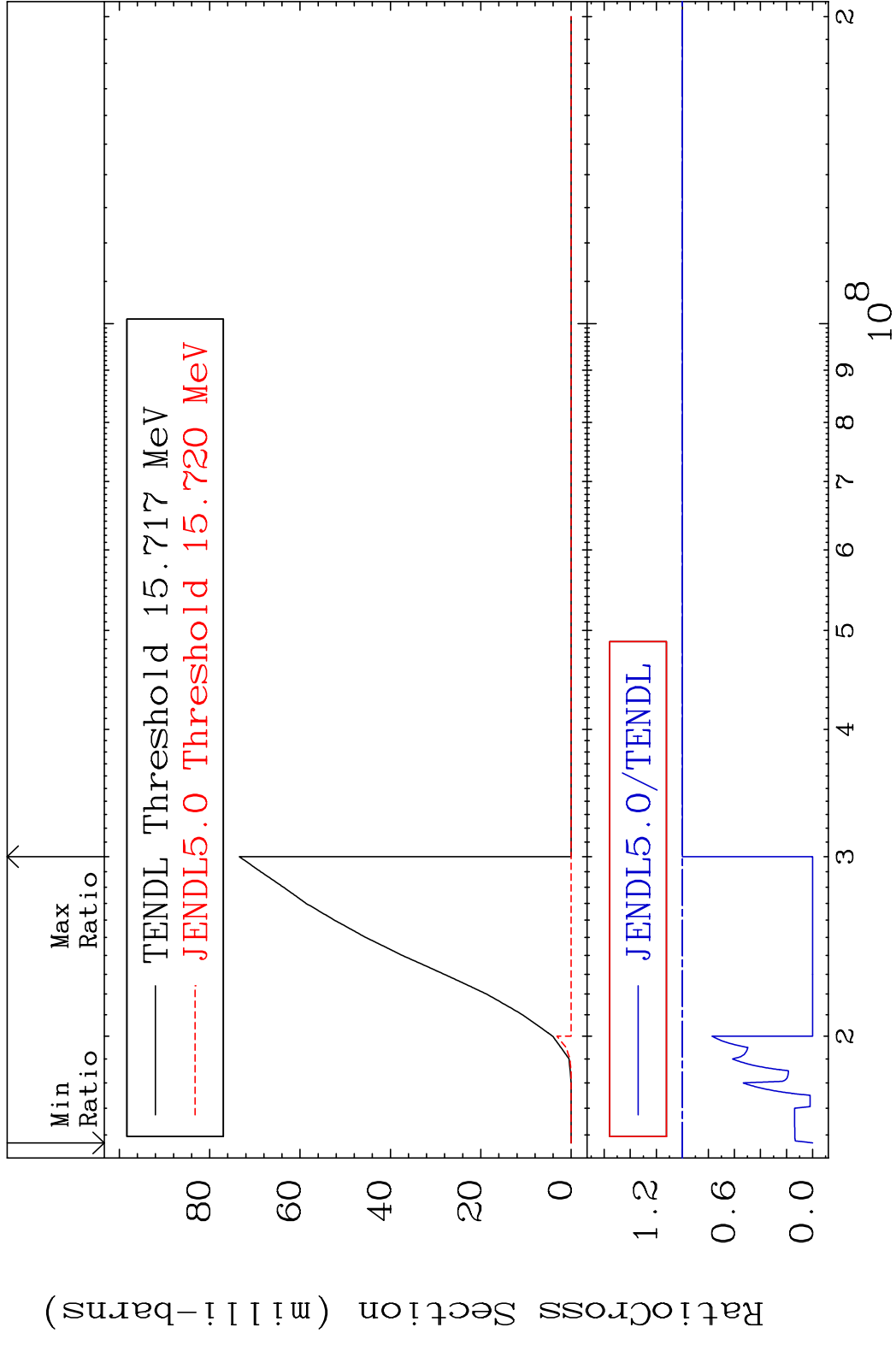


8 9 10 2 40-Zr-91

MAT 4028 (n, n') d 40-Zr-91
 Cross Section -100.0 To 9999. %

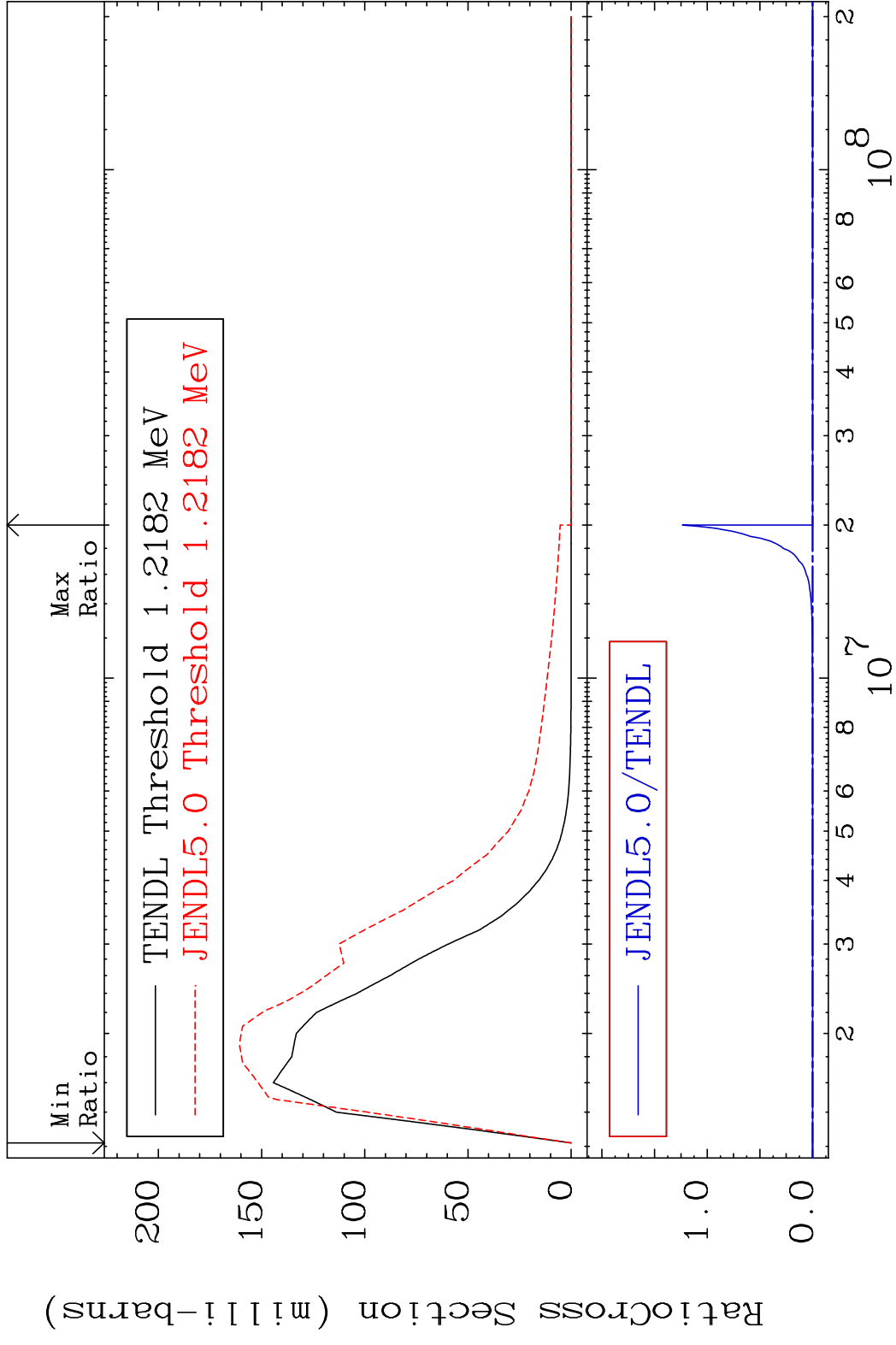


MAT 4028 (n,2n) p 40-Zr-91
 Cross Section -100.0 To 0.000 %

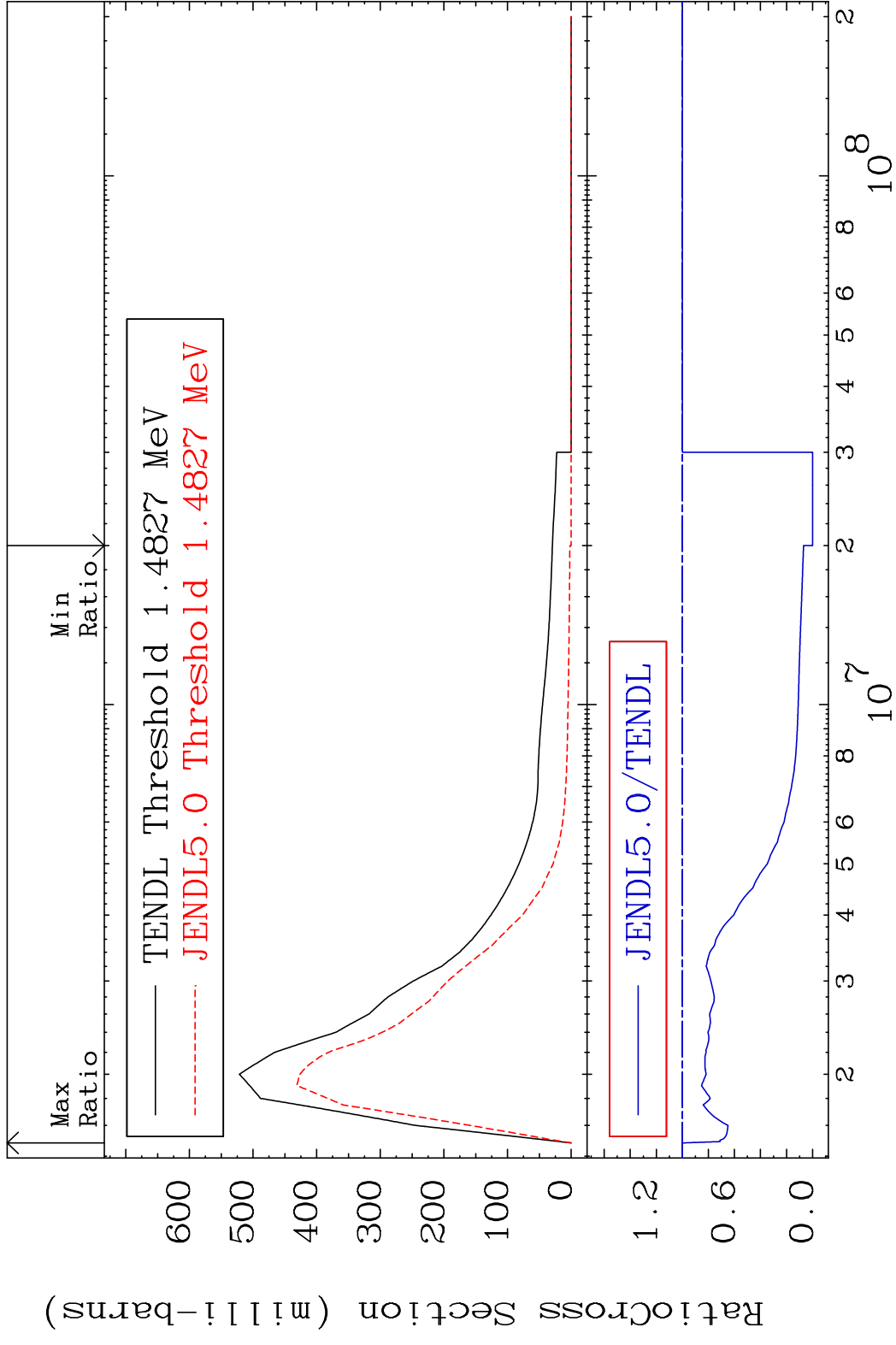


10 100 1000 10000 100000 1000000 10000000 100000000 200000000 40-Zr-91

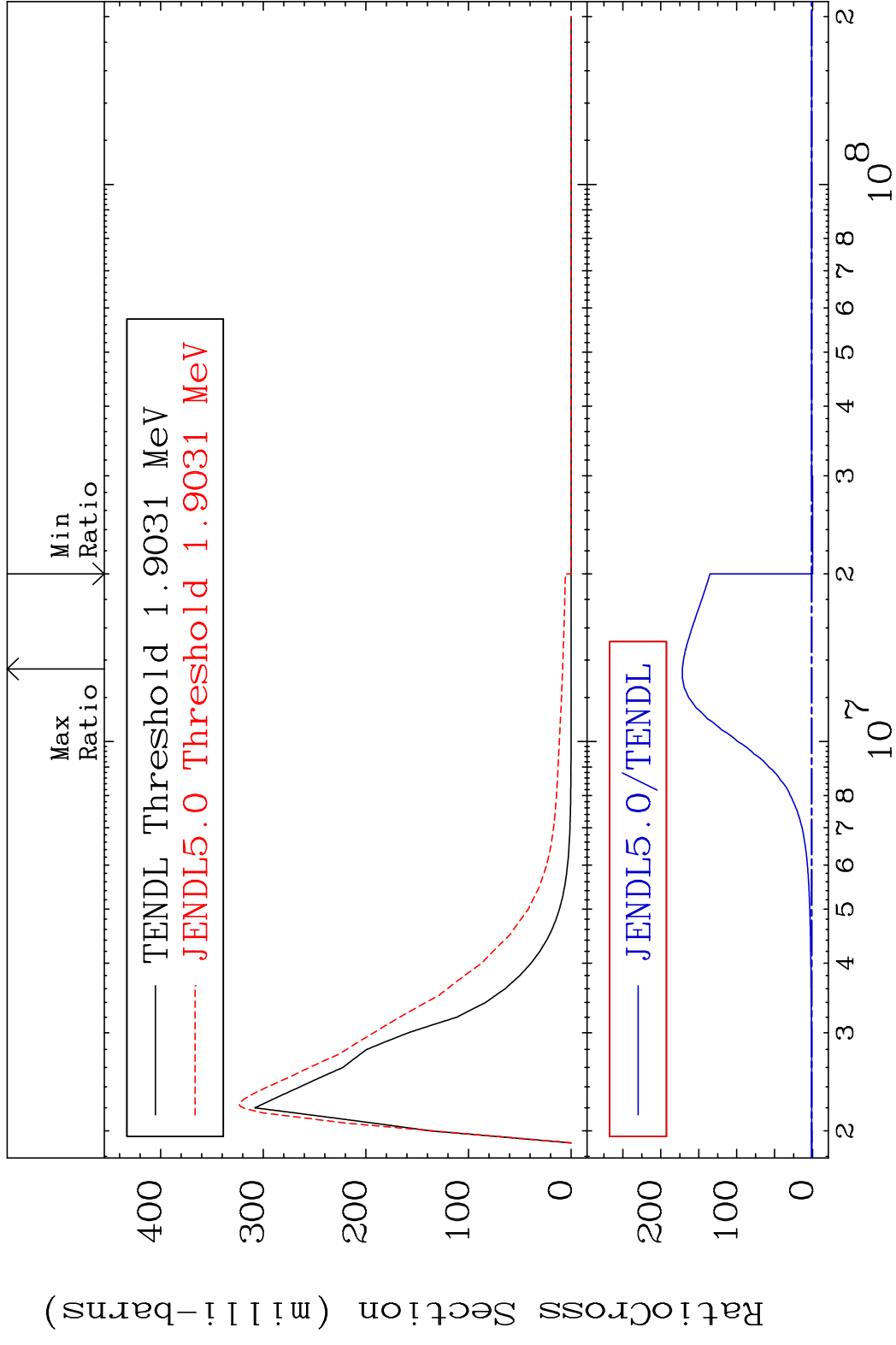
MAT 4028 MT= 51 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 9999. %



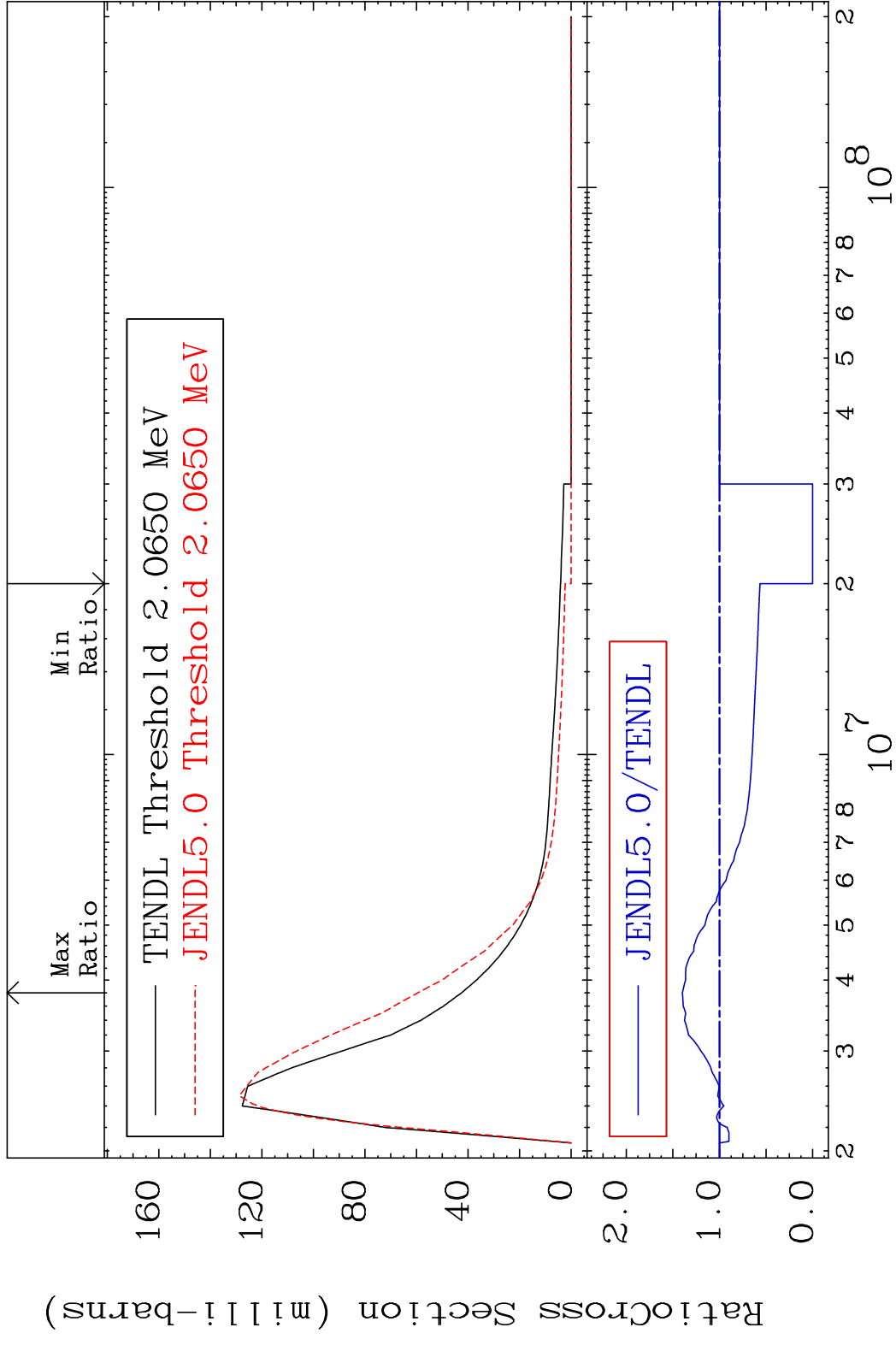
MAT 4028 MT= 52 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 0.000 %



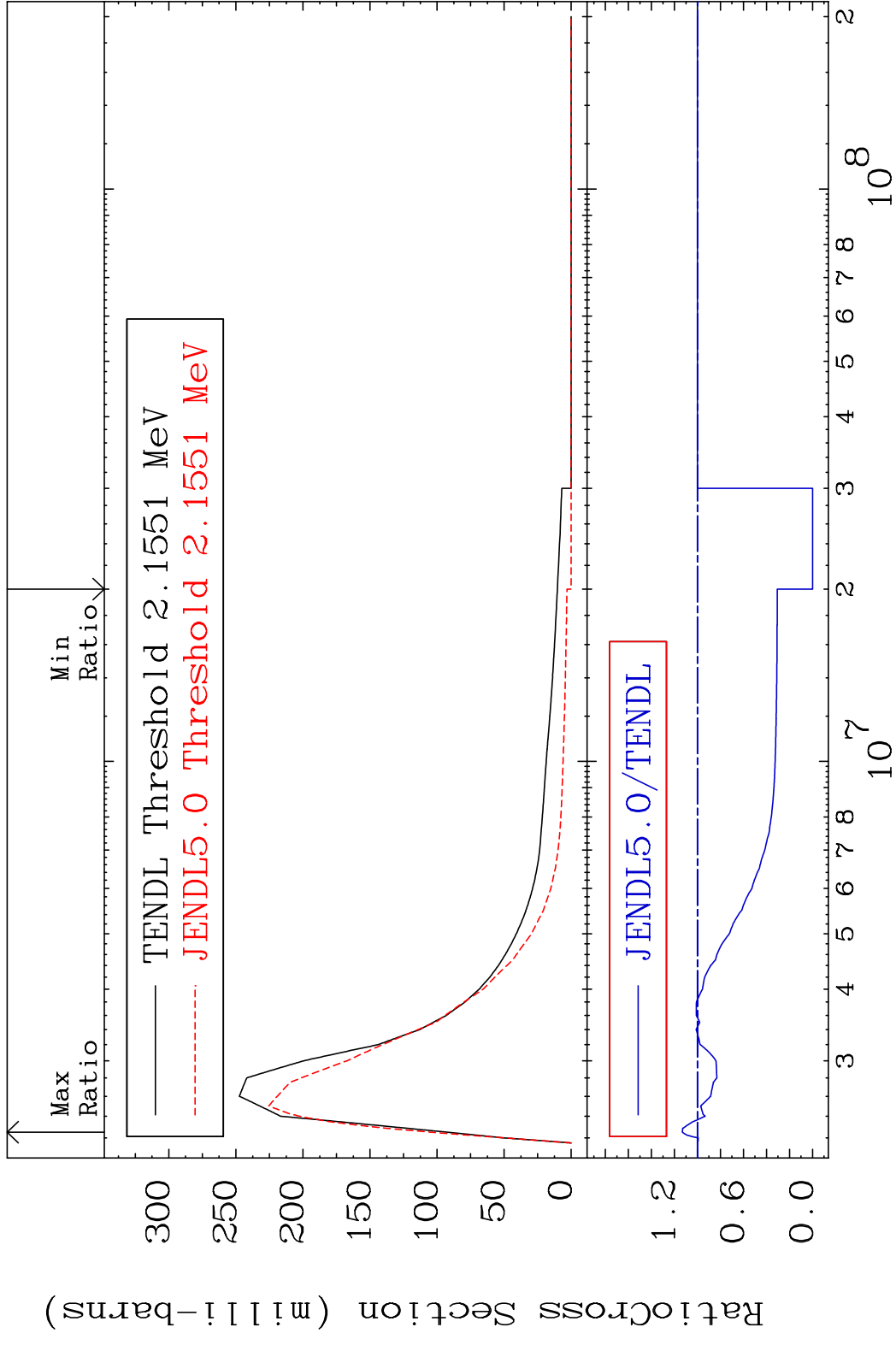
MAT 4028 MT= 53 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 9999. %



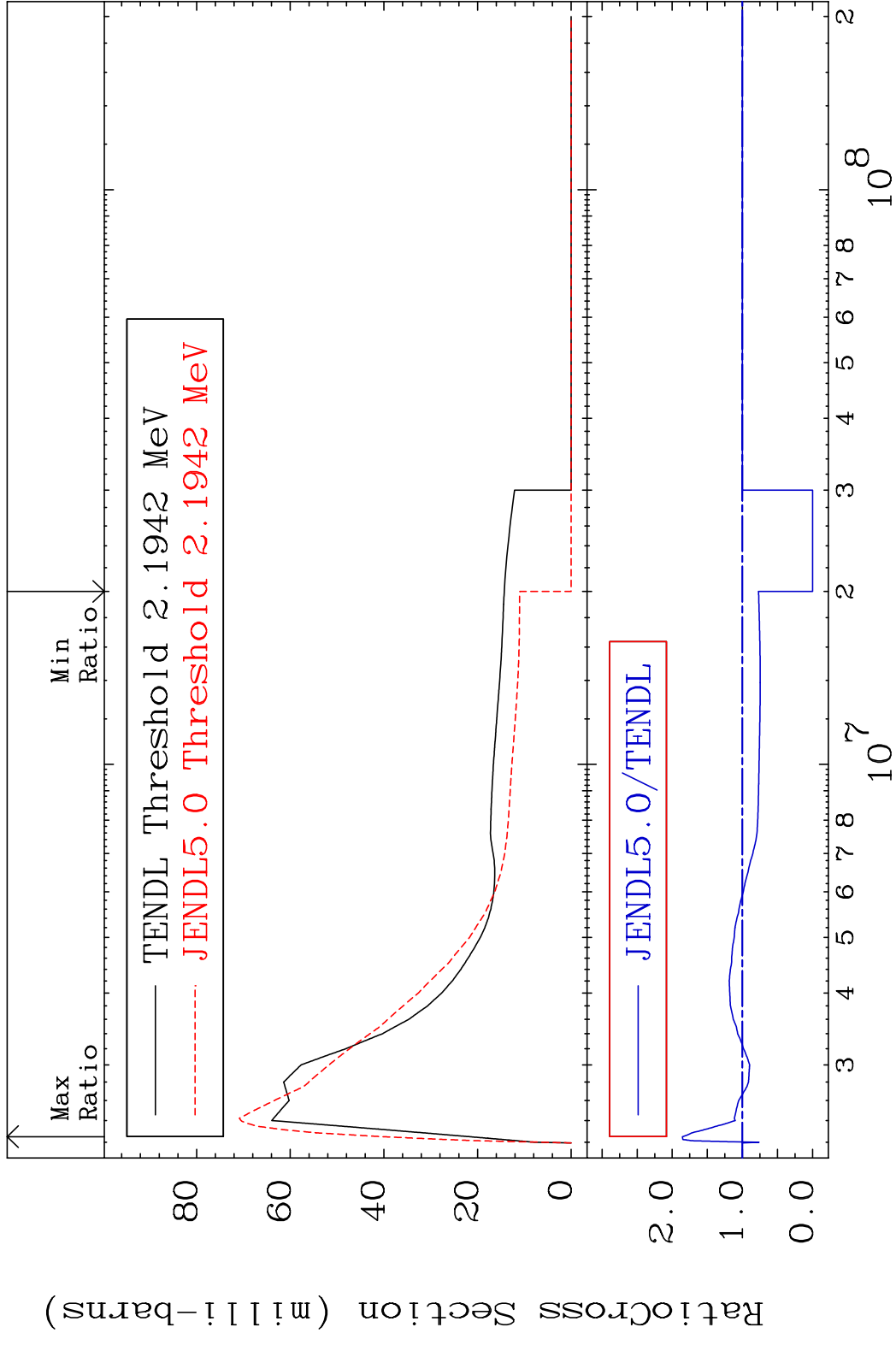
MAT 4028 MT= 54 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 39.84 %



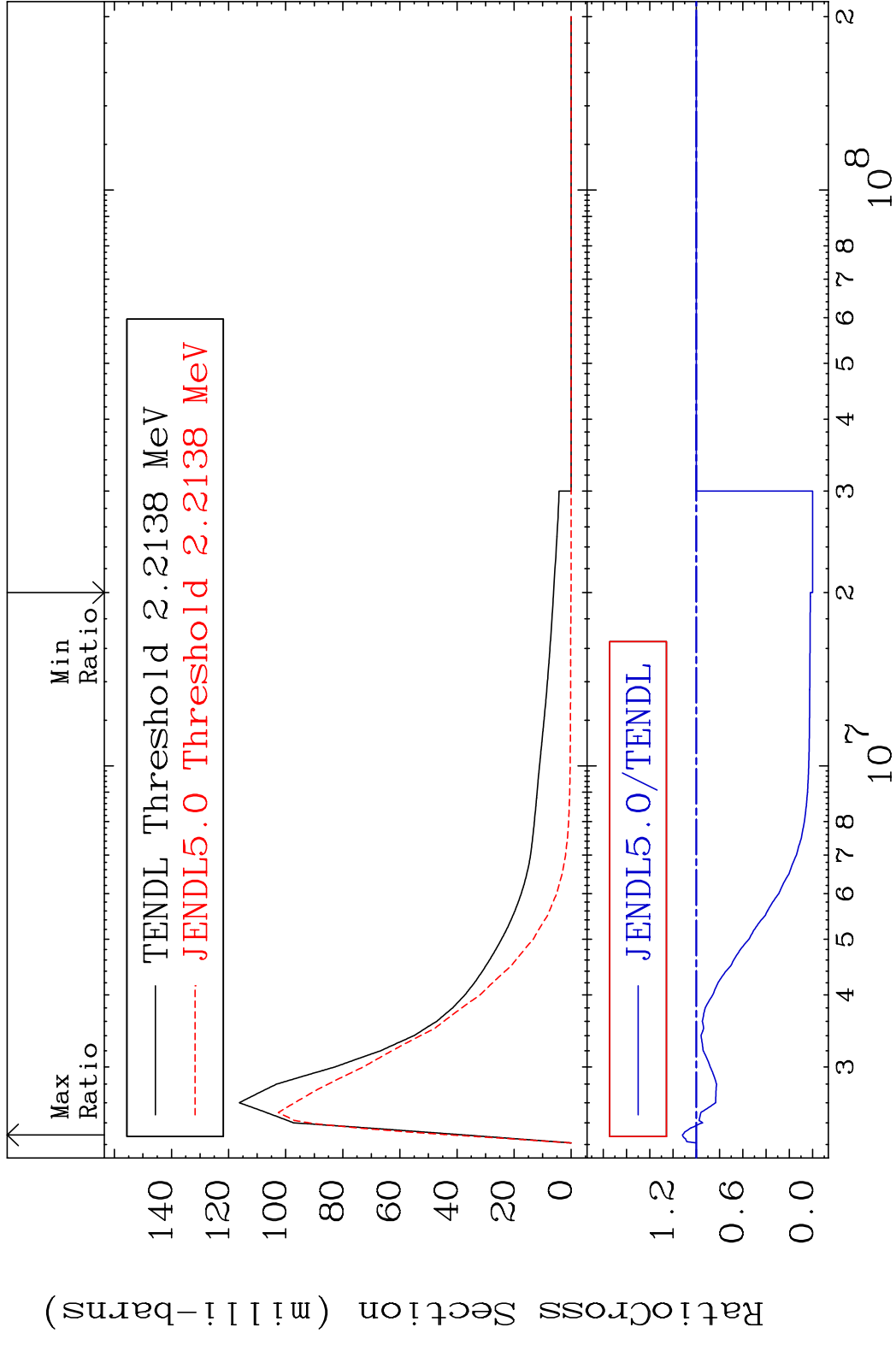
MAT 4028 MT= 55 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 13.10 %



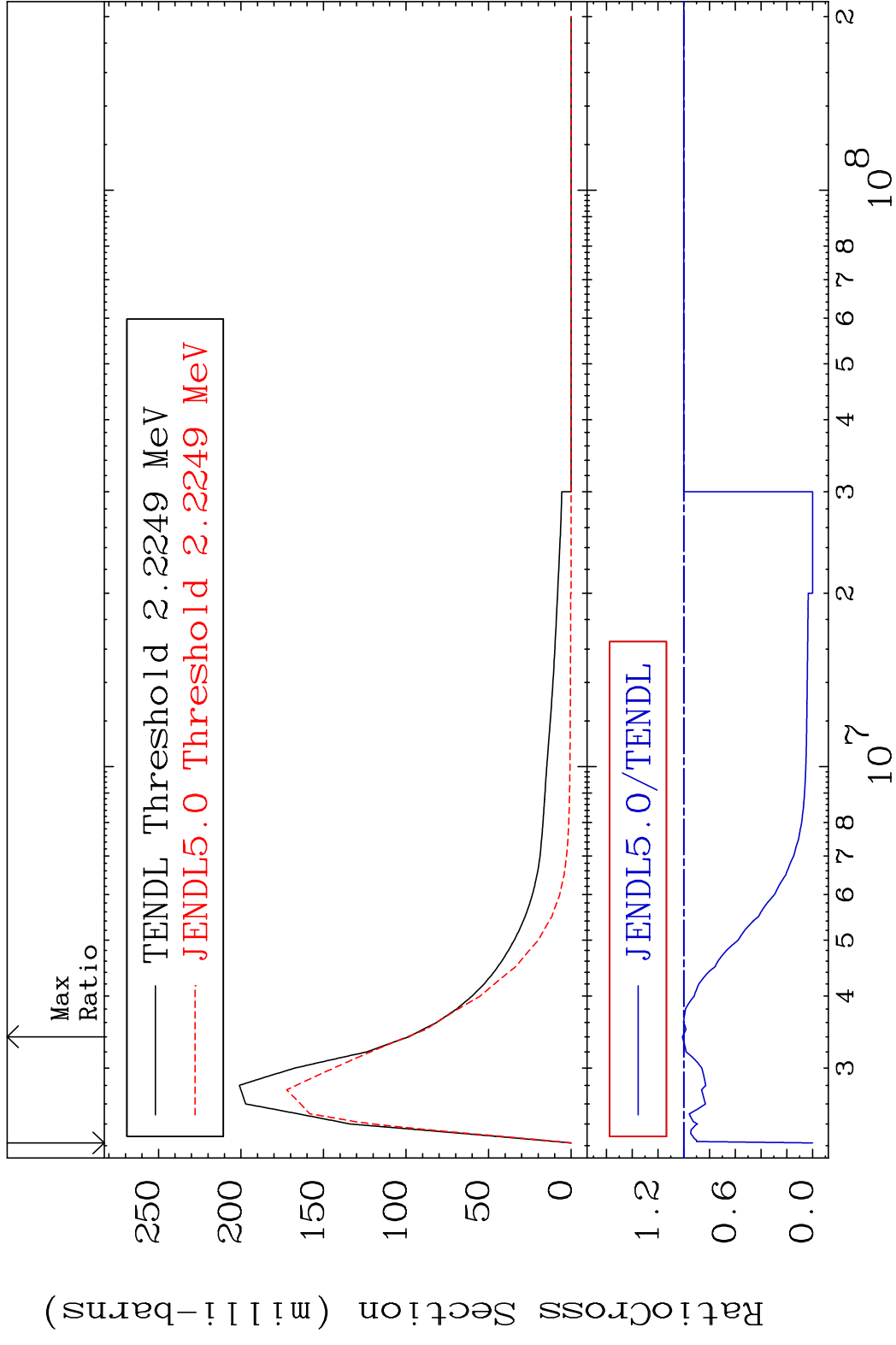
MAT 4028 MT= 56 (n,n') Level 40-Zr-91
 Cross Section -100.0 To 85.58 %



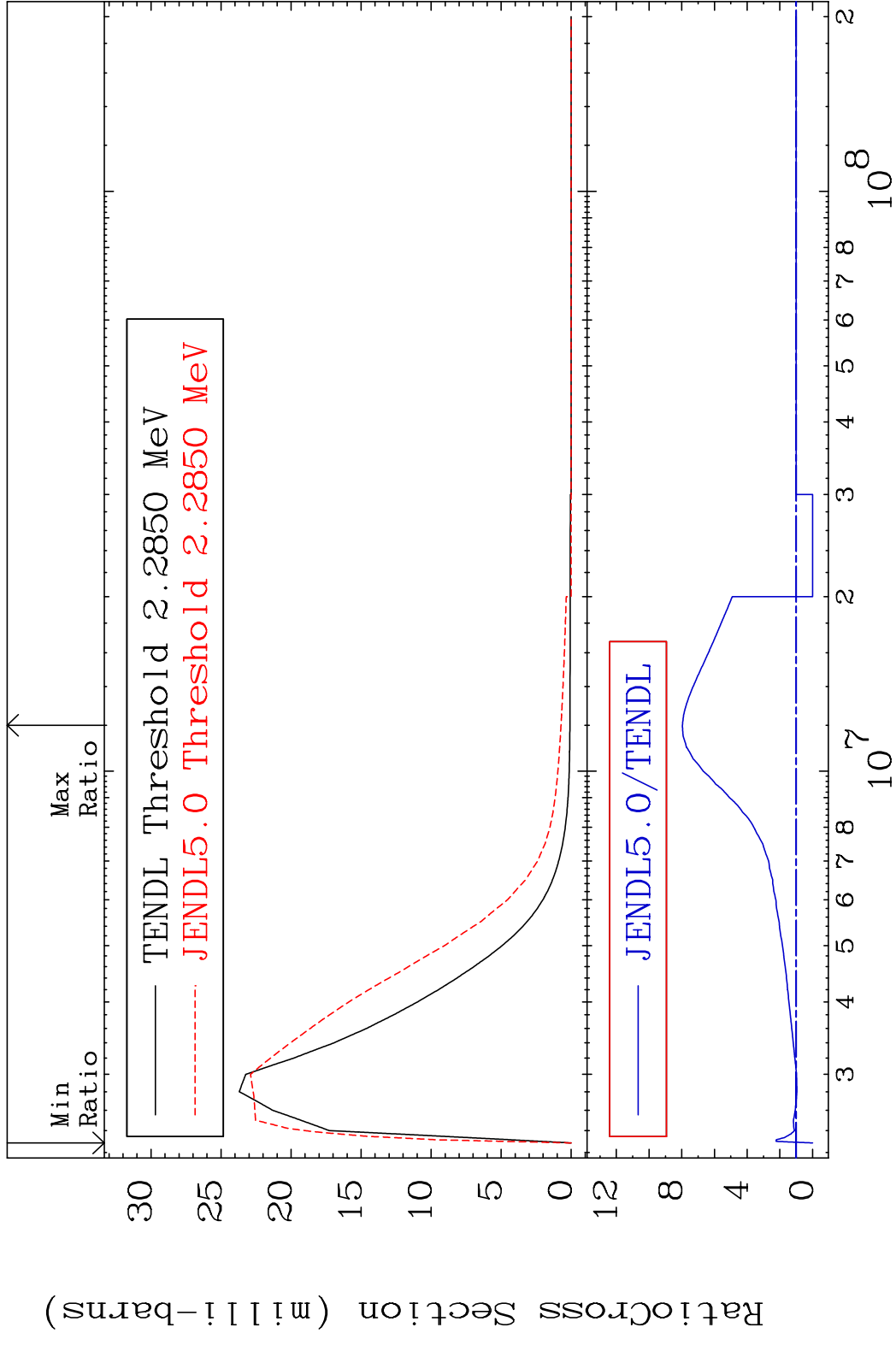
MAT 4028 MT= 57 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 11.95 %



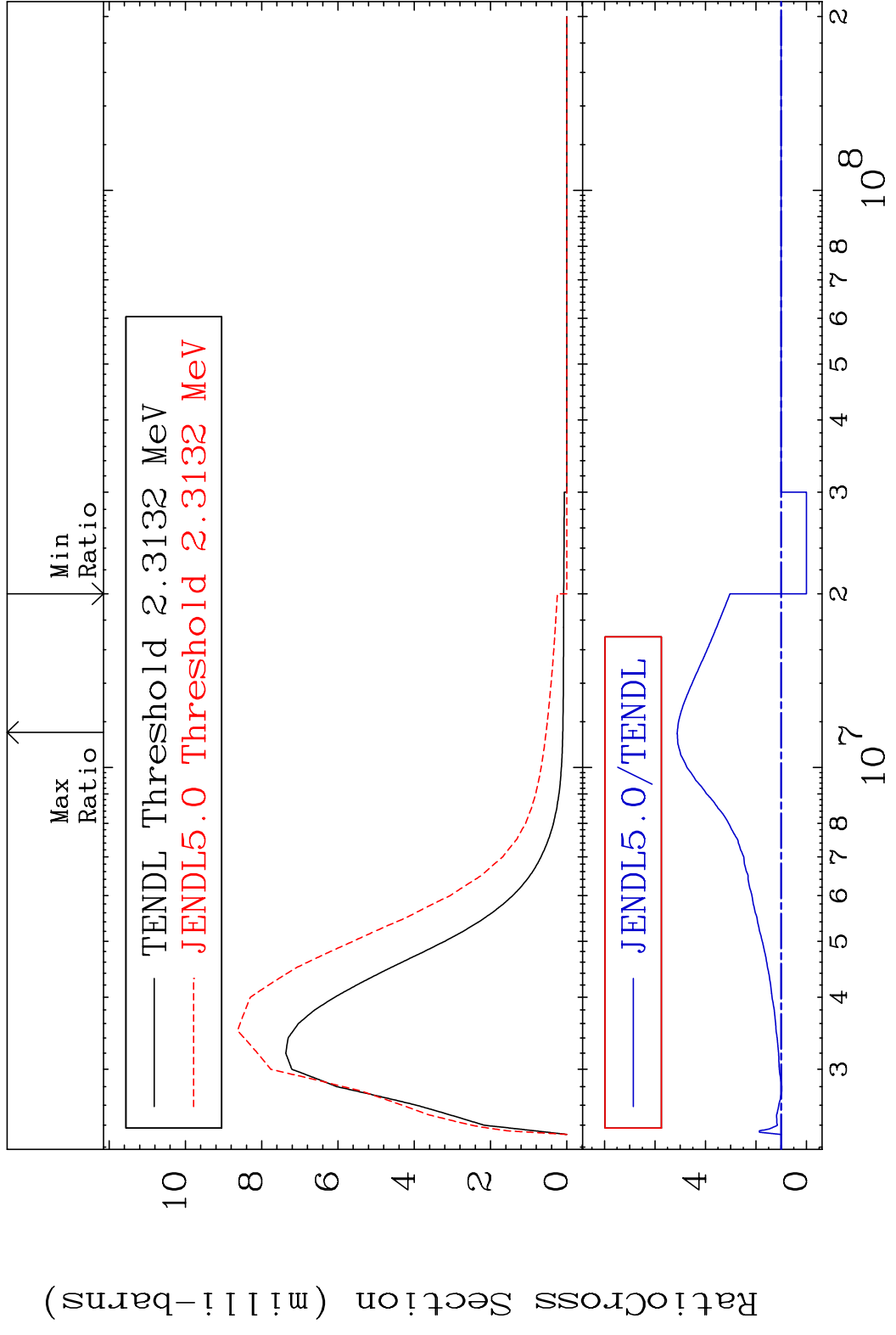
MAT 4028 MT= 58 (n,n') Level 40-Zr-91
 Cross Section -100.0 To 1.027 %



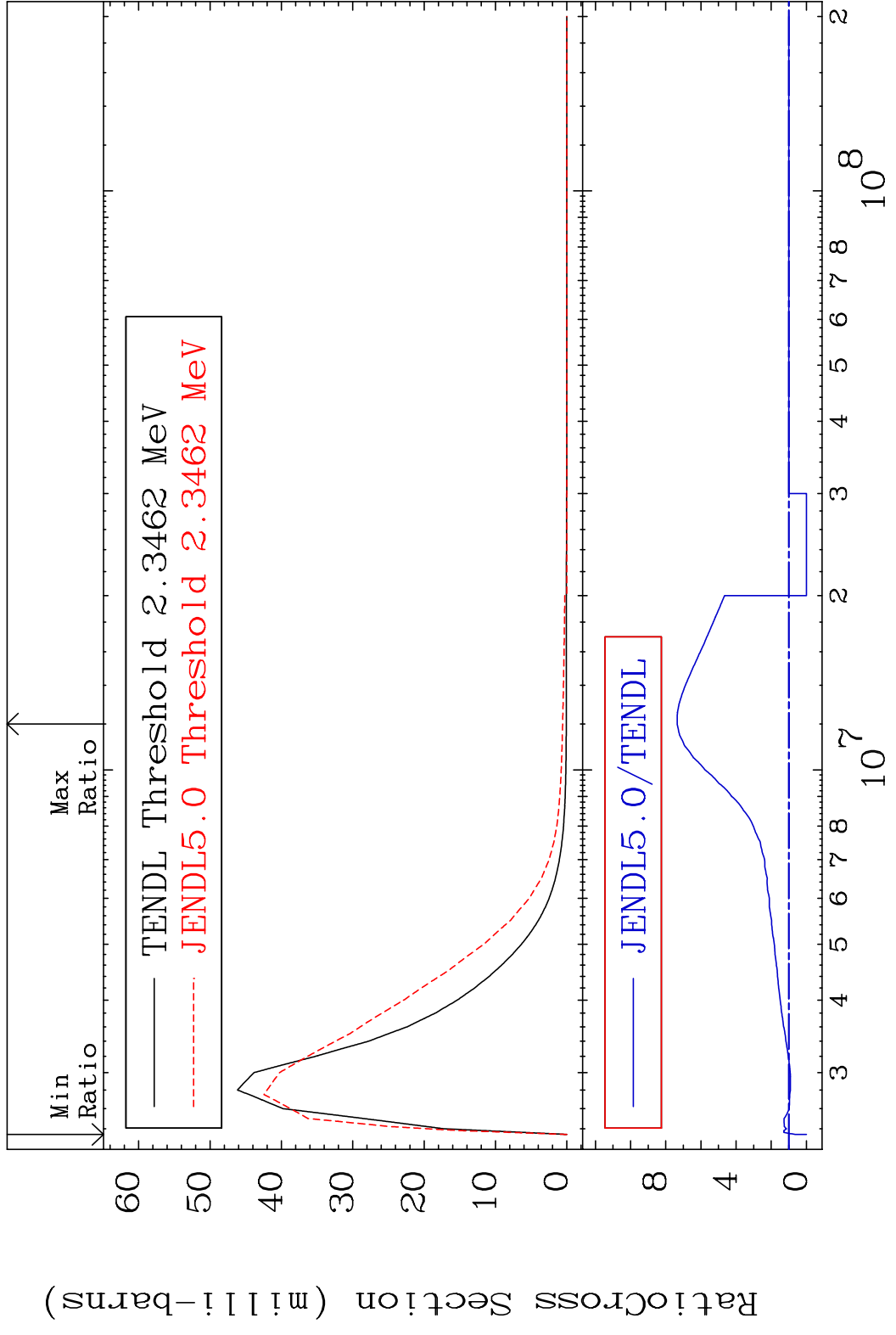
MAT 4028 MT= 59 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 696.3 %



MAT 4028 MT= 60 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 412.0 %

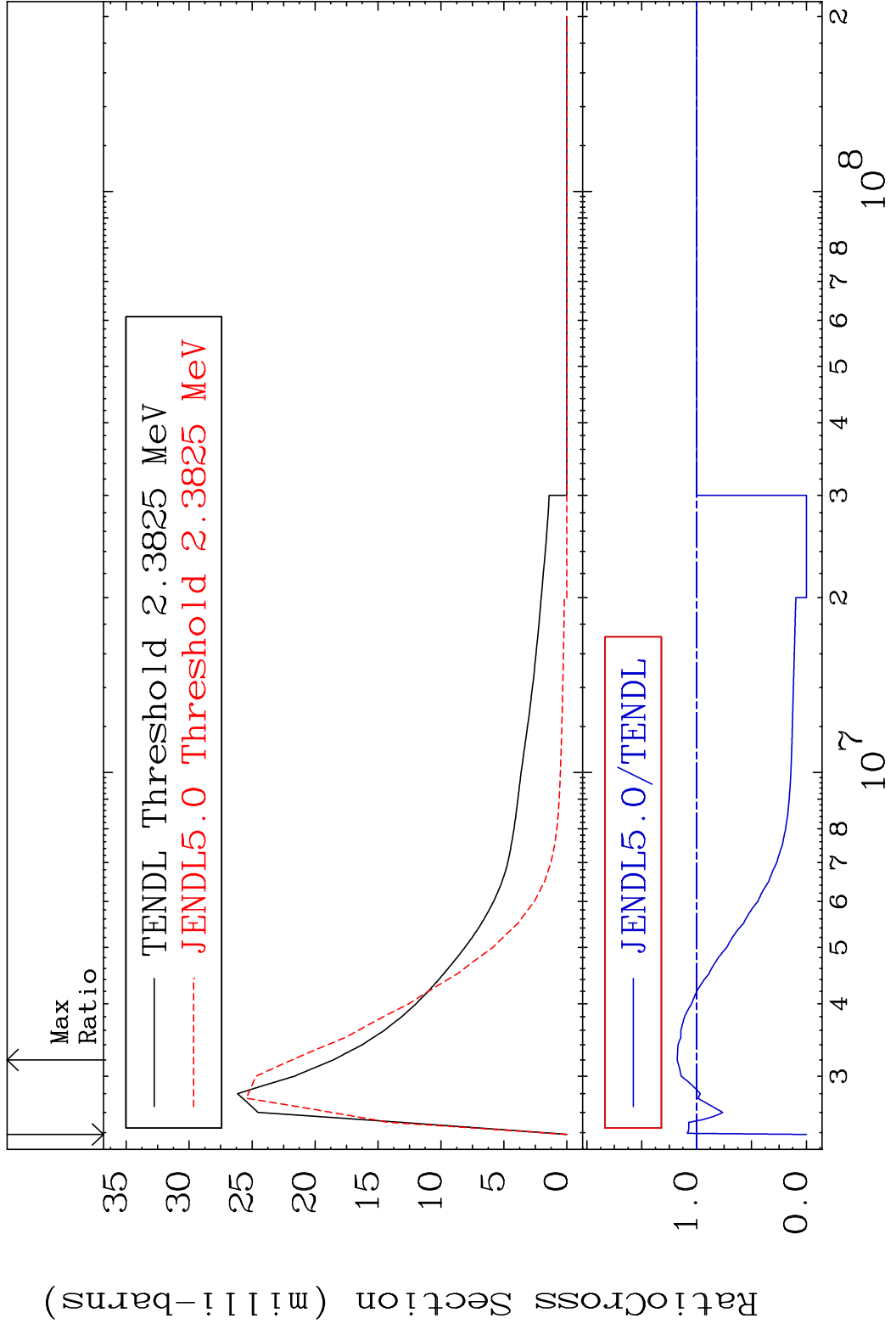


MAT 4028 MT= 61 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 635.1 %

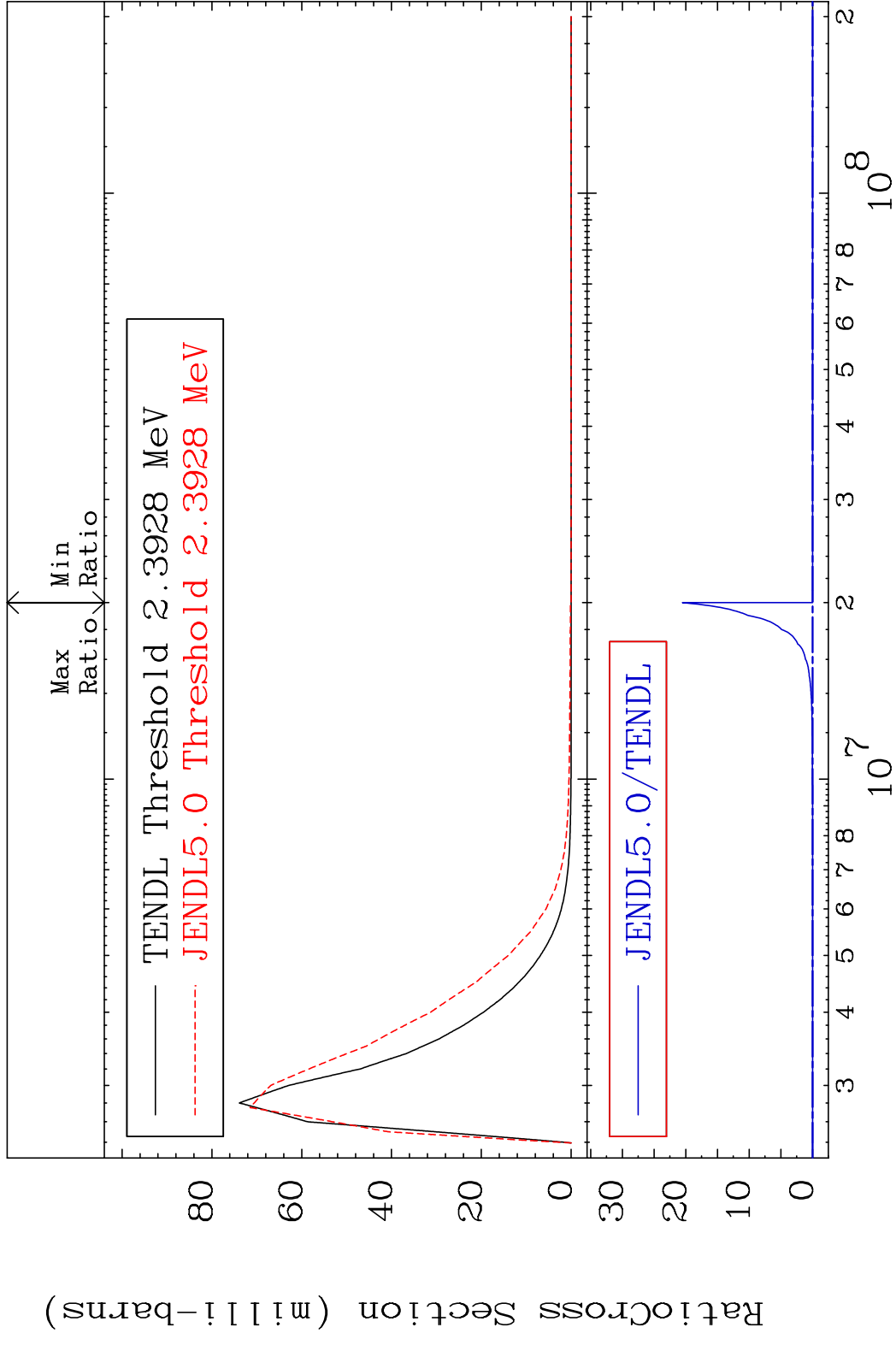


21 Incident Energy (eV) 40-Zr-91

MAT 4028 MT= 62 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 17.74 %

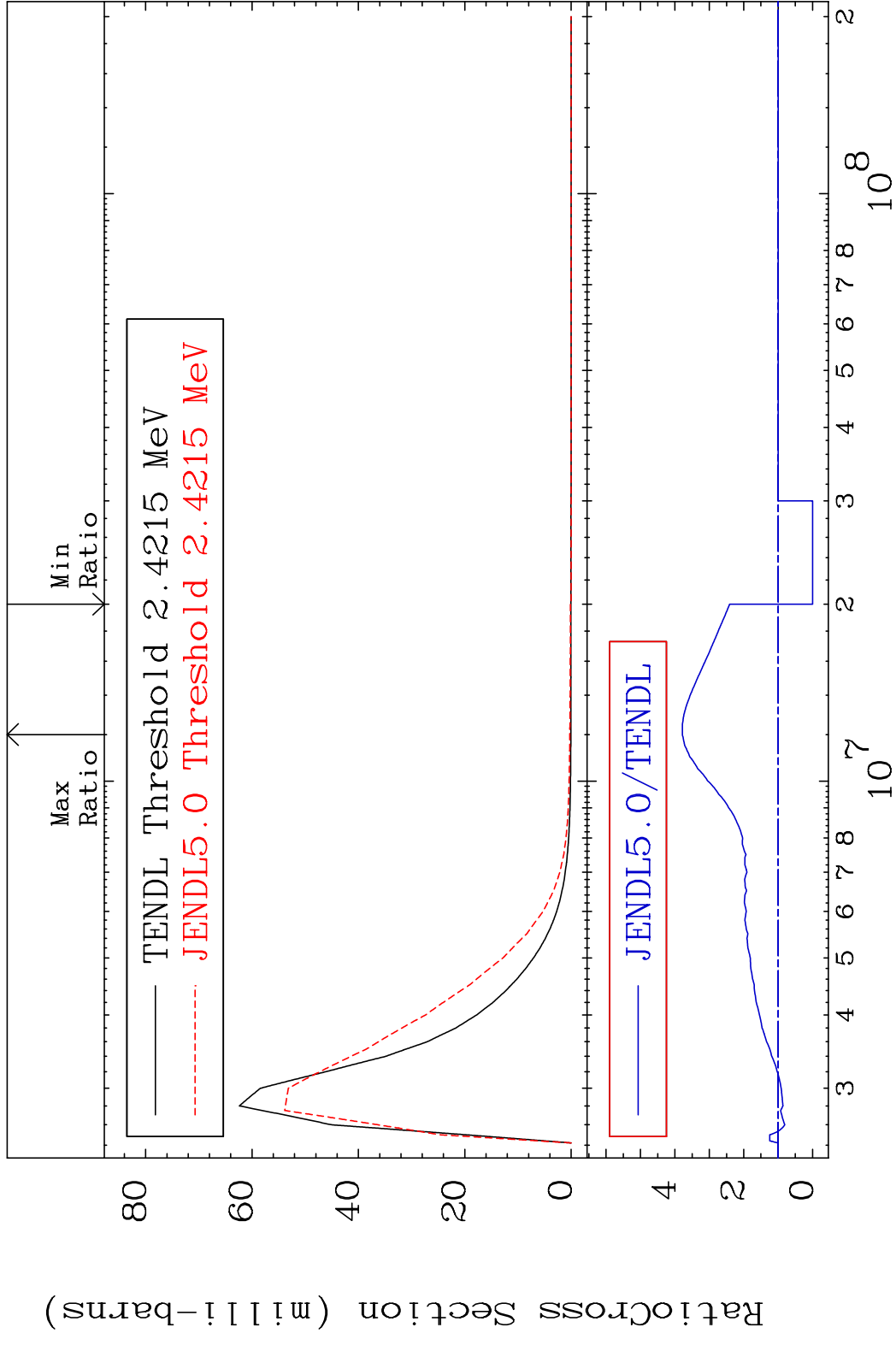


MAT 4028 MT= 63 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 9999. %



23 Incident Energy (eV) 40-Zr-91

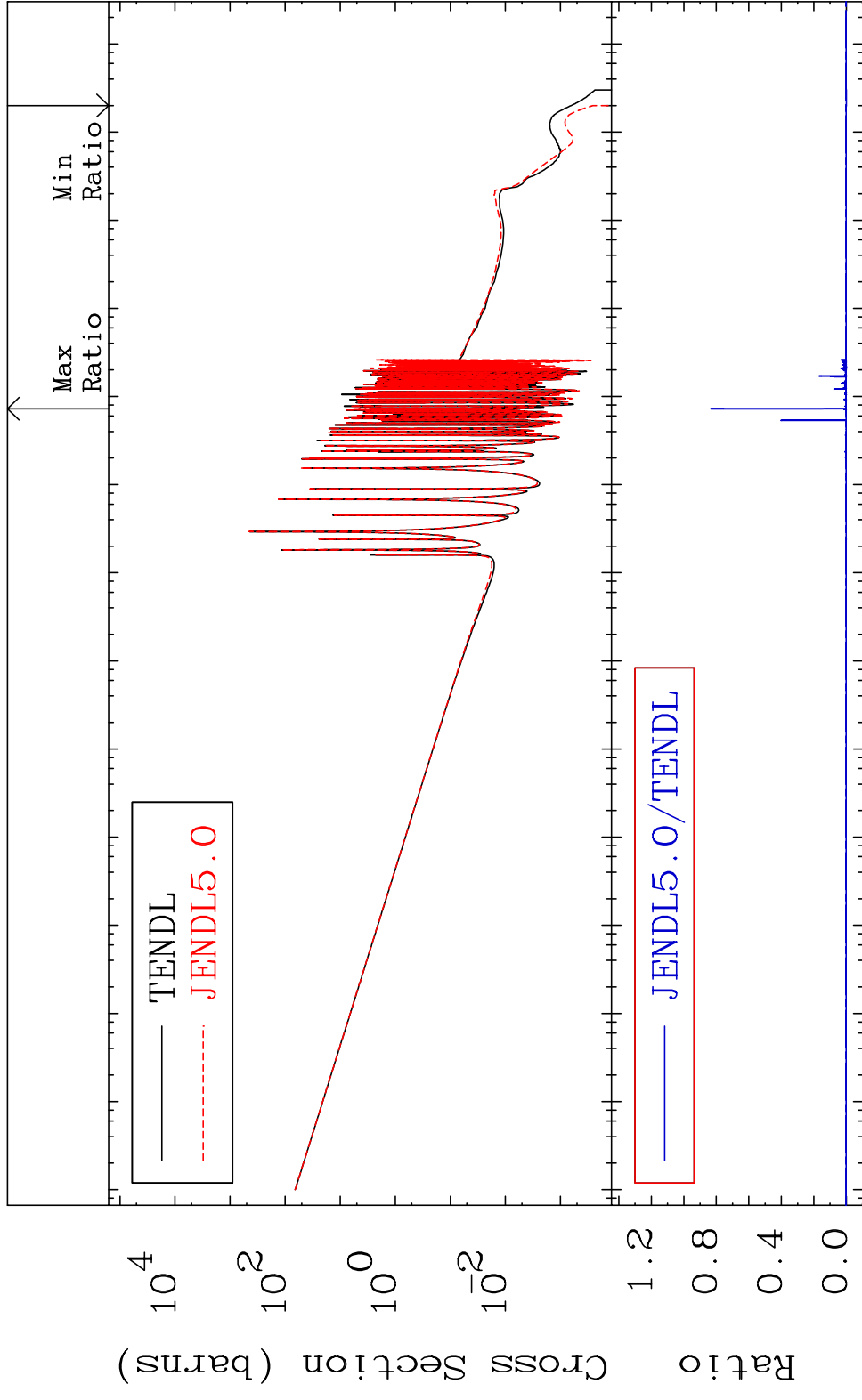
MAT 4028 MT= 64 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 278.4 %



24 40-Zr-91

MAT 4028

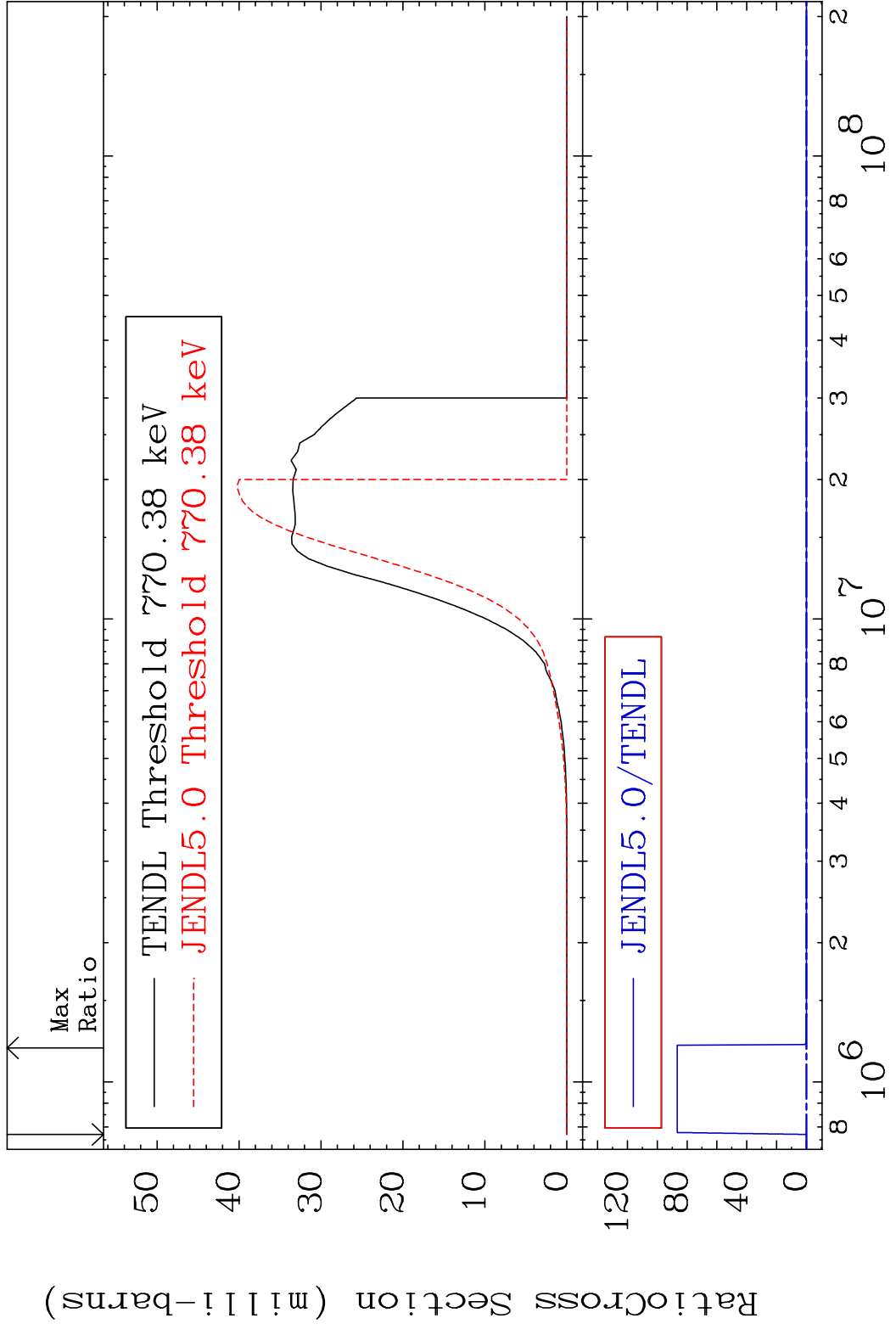
(n, γ)
Cross Section -100.0 To 9999. %
40-Zr-91



26

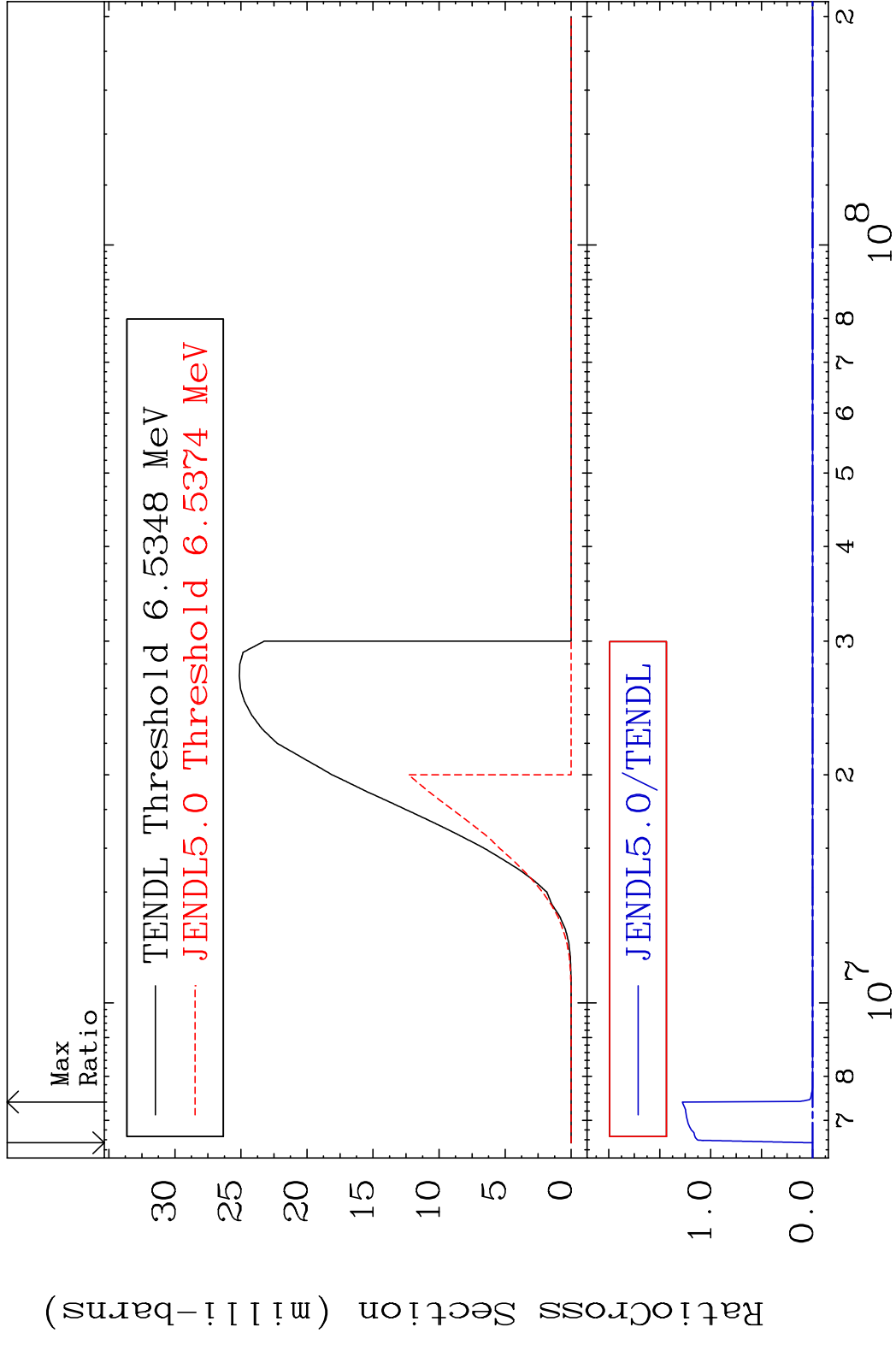
Incident Energy (eV) 40-Zr-91

MAT 4028 (n,p) 40-Zr-91
 Cross Section -100.0 To 9999. %

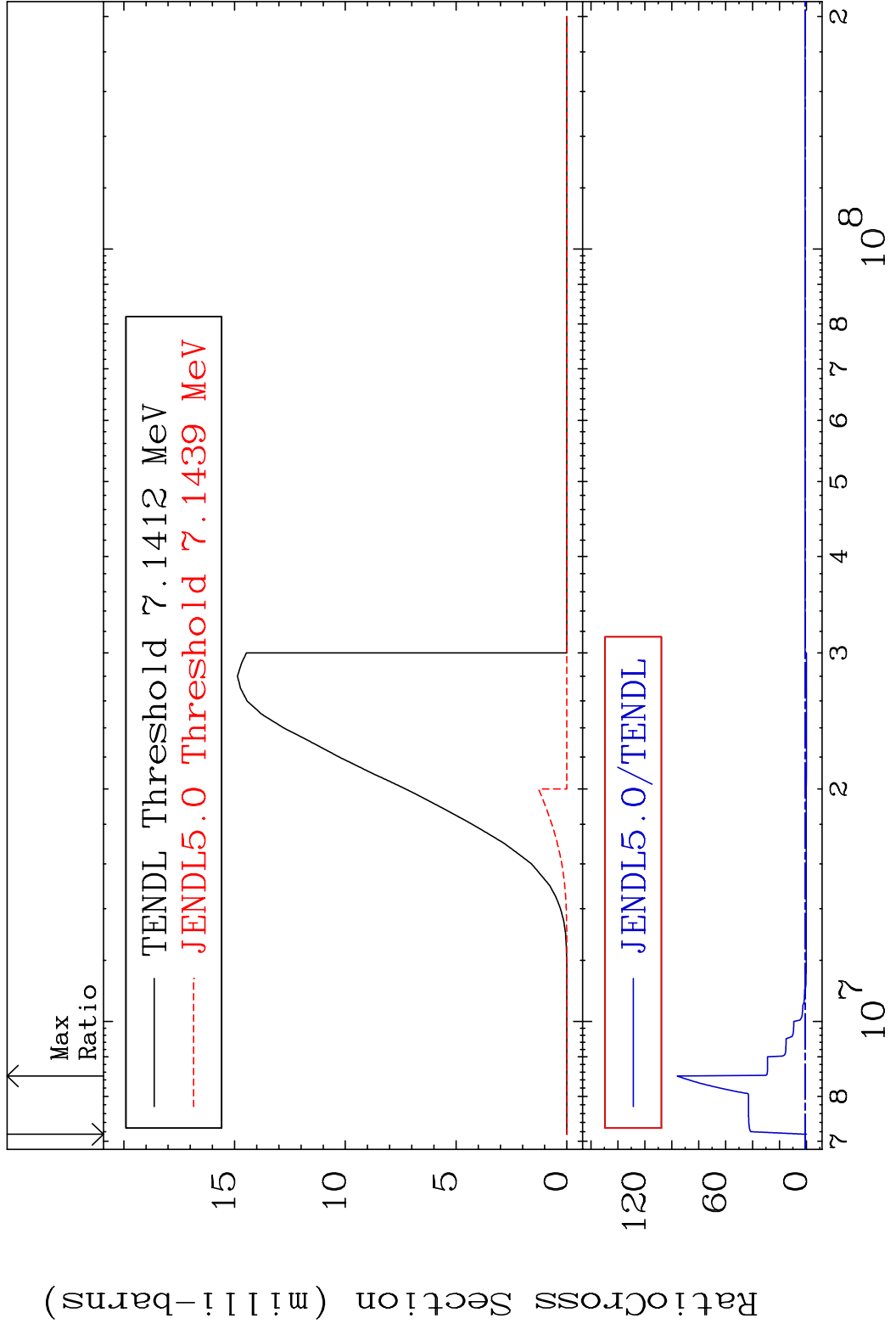


27 Incident Energy (eV) 40-Zr-91

MAT 4028 (n,d) 40-Zr-91
 Cross Section -100.0 To 9999. %



MAT 4028 (n, t) 40-Zr-91
 Cross Section -100.0 To 9494. %

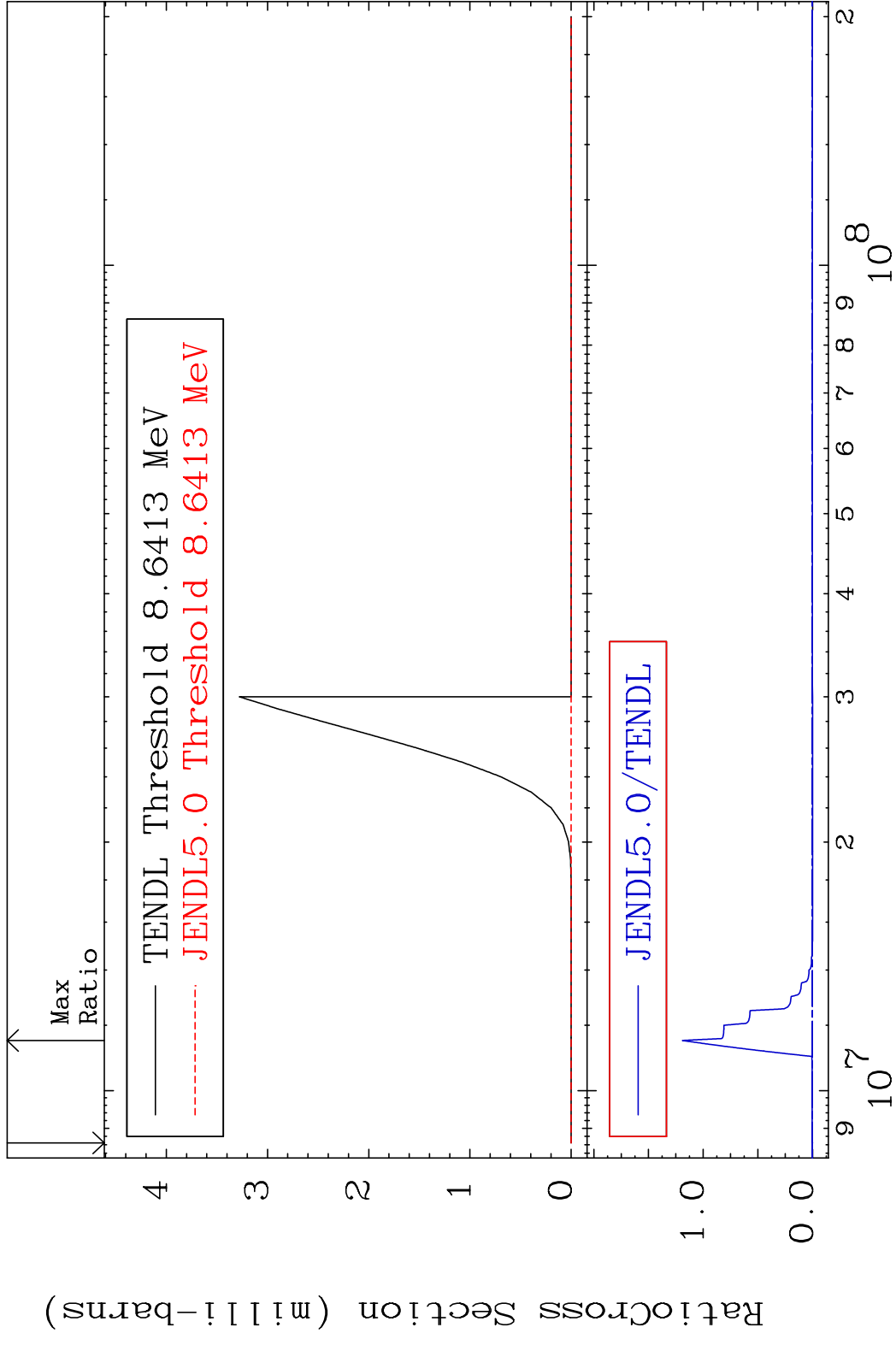


MAT 4028

(n, He-3)

40-Zr-91

Cross Section -100.0 To 9999. %



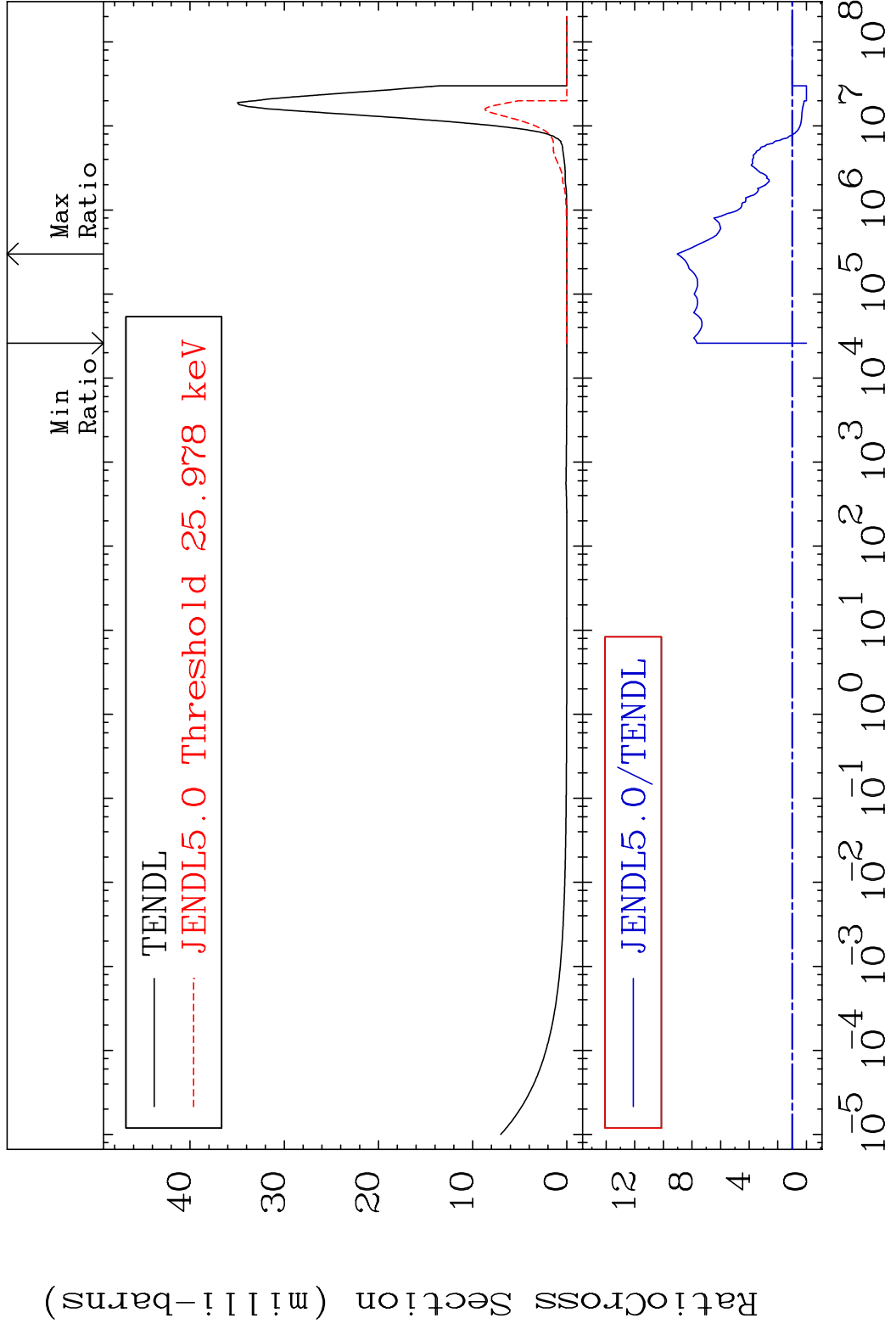
30

Incident Energy (eV)

40-Zr-91

MAT 4028

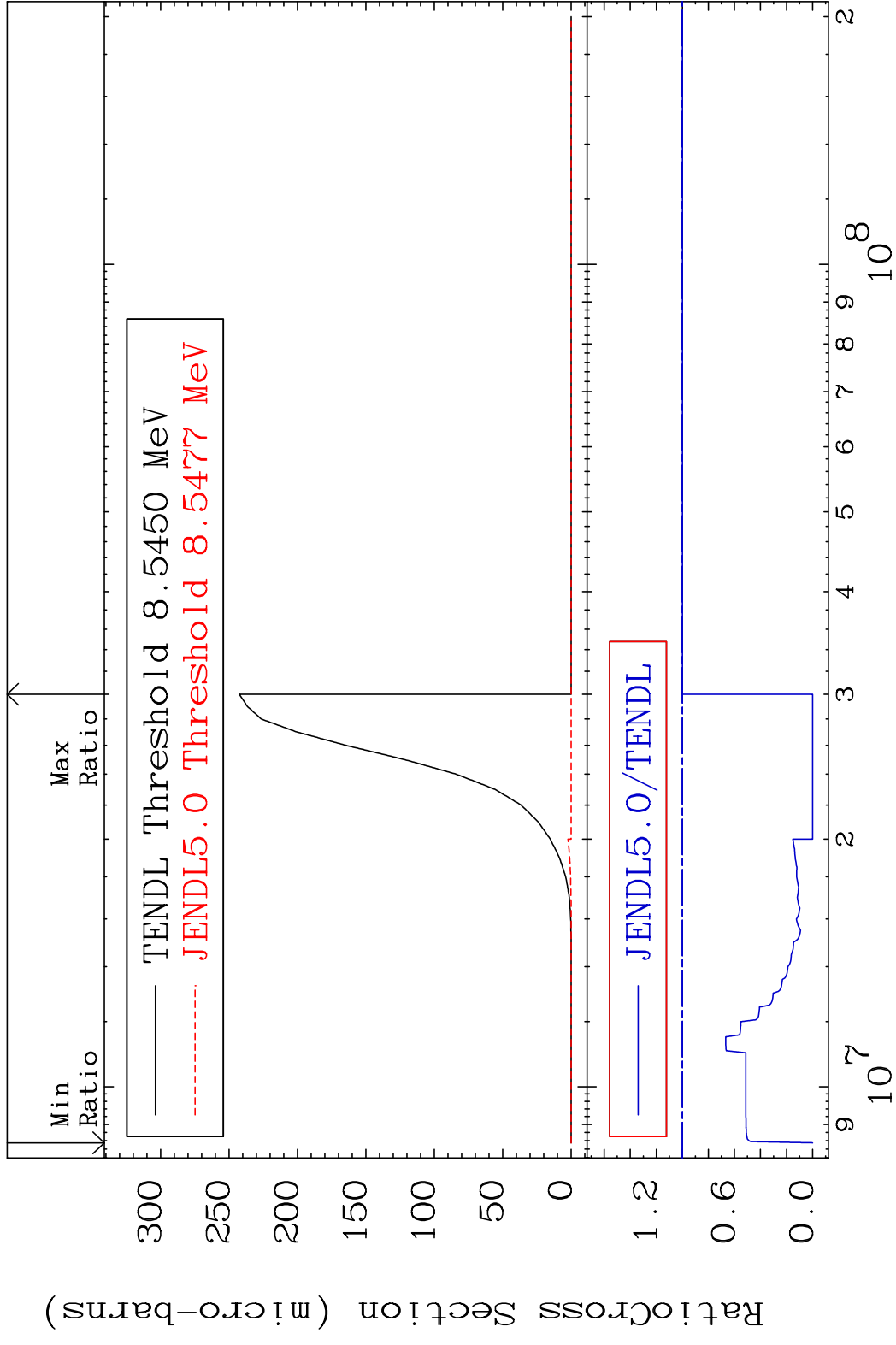
(n, α)
Cross Section -100.0 To 803.2 %
40-Zr-91



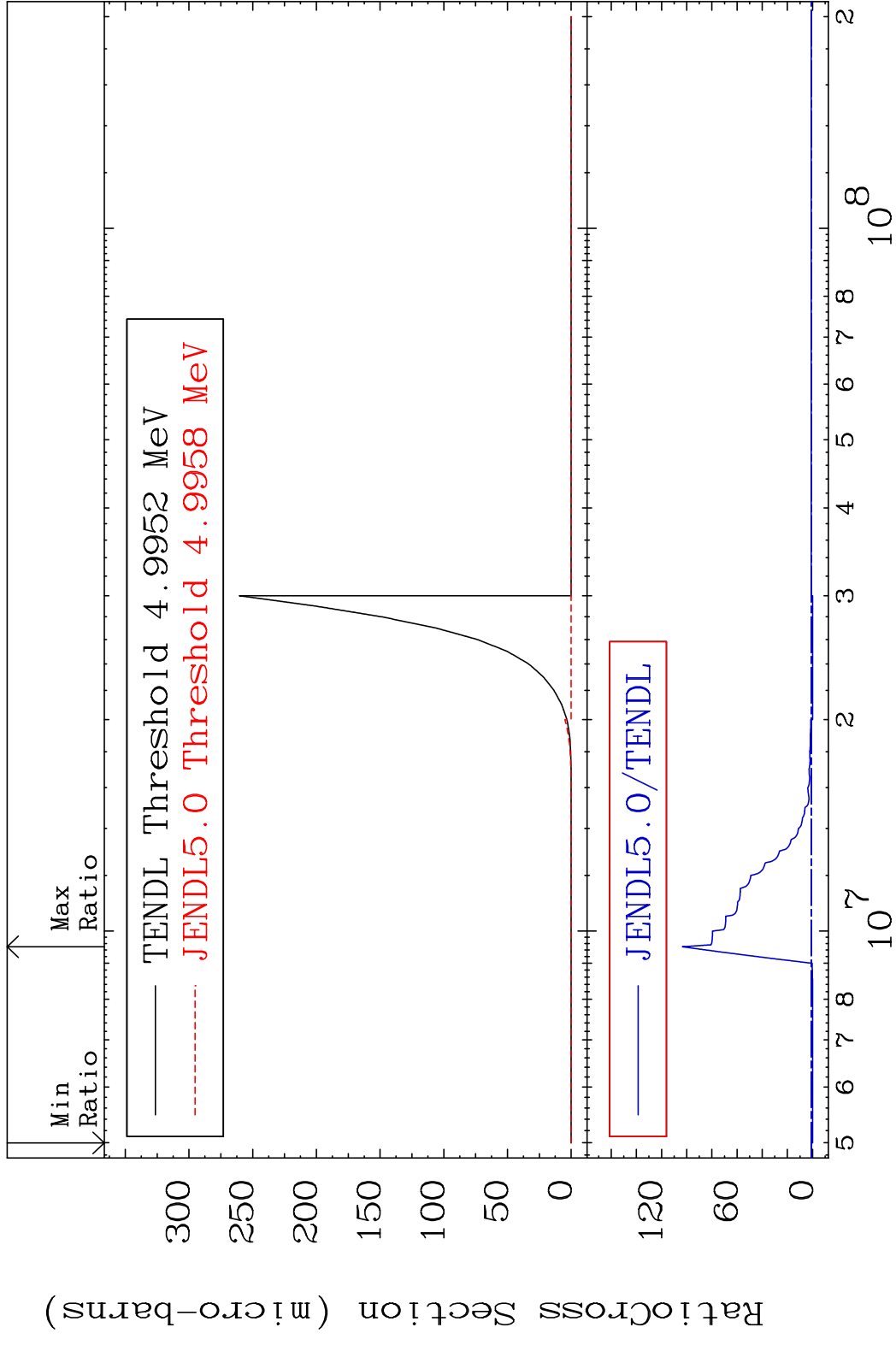
31

Incident Energy (eV) 40-Zr-91

MAT 4028 (n,2p) 40-Zr-91
 Cross Section -100.0 To 0.000 %

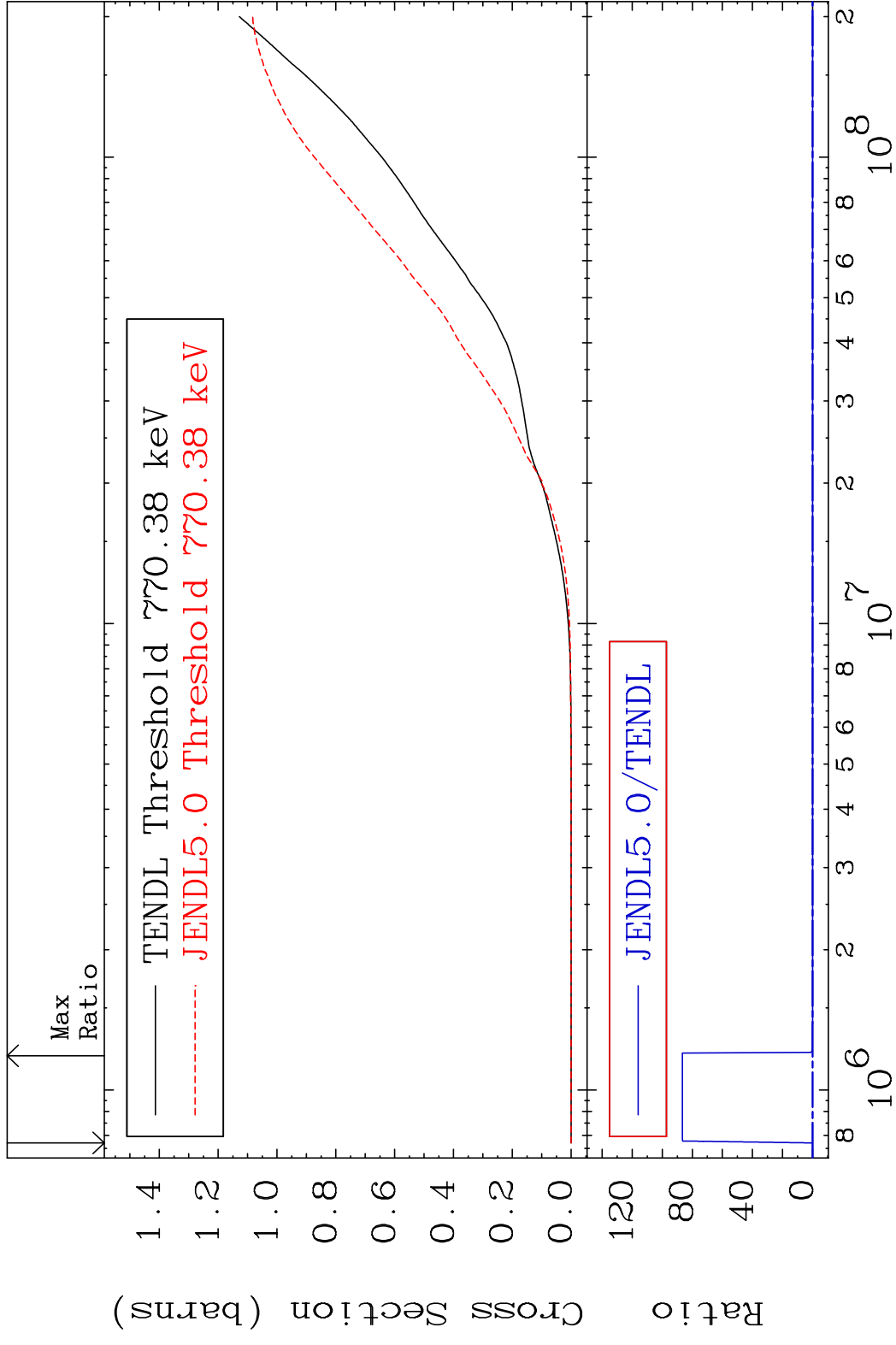


MAT 4028 (n,p) α 40-Zr-91
 Cross Section -100.0 To 9999. %



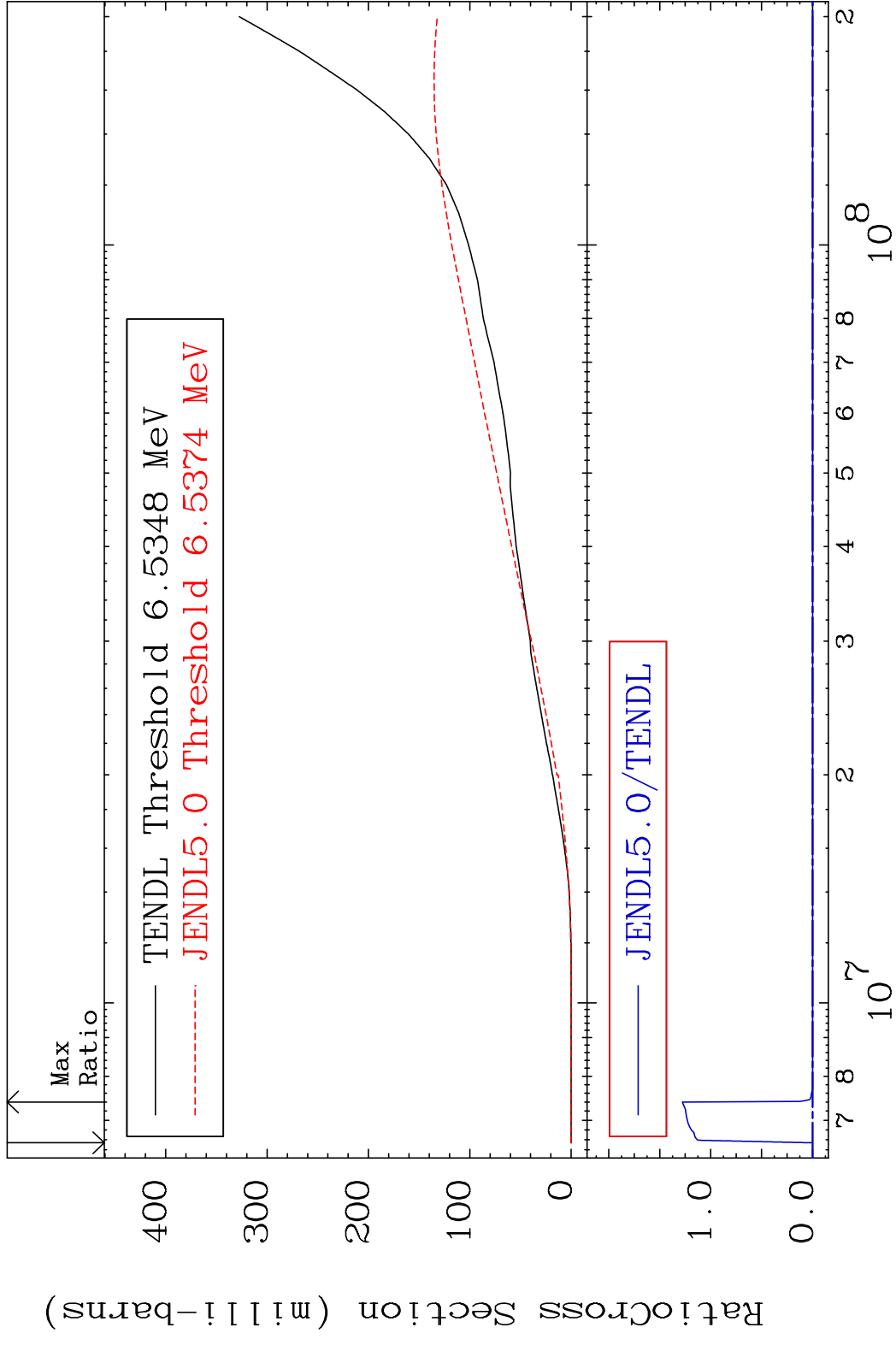
33 Incident Energy (eV) 40-Zr-91

MAT 4028 Hydrogen Production 40-Zr-91
 Cross Section -100.0 To 9999. %



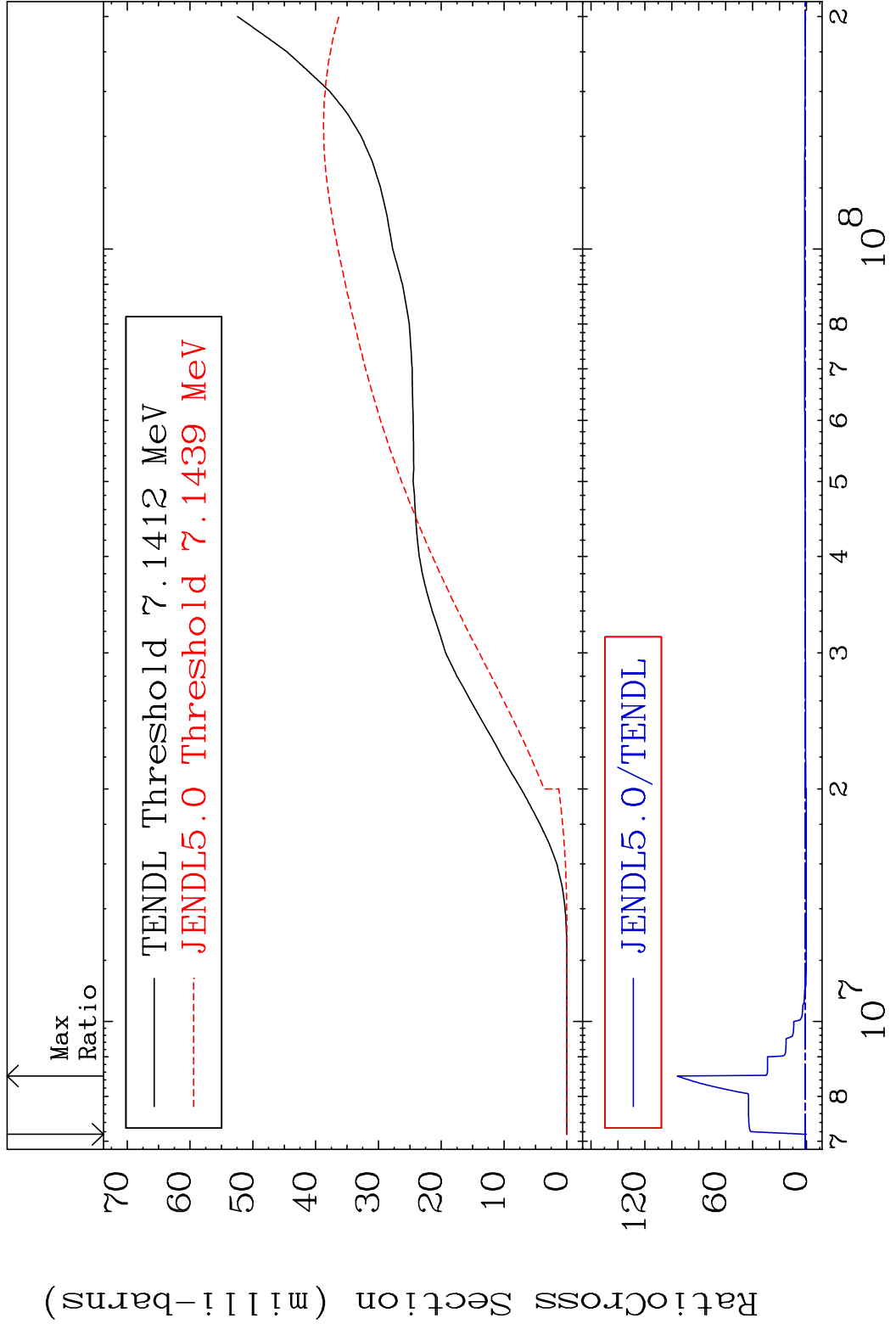
34 Incident Energy (eV) 40-Zr-91

MAT 4028 Deuterium Production 40-Zr-91
 Cross Section -100.0 To 9999. %

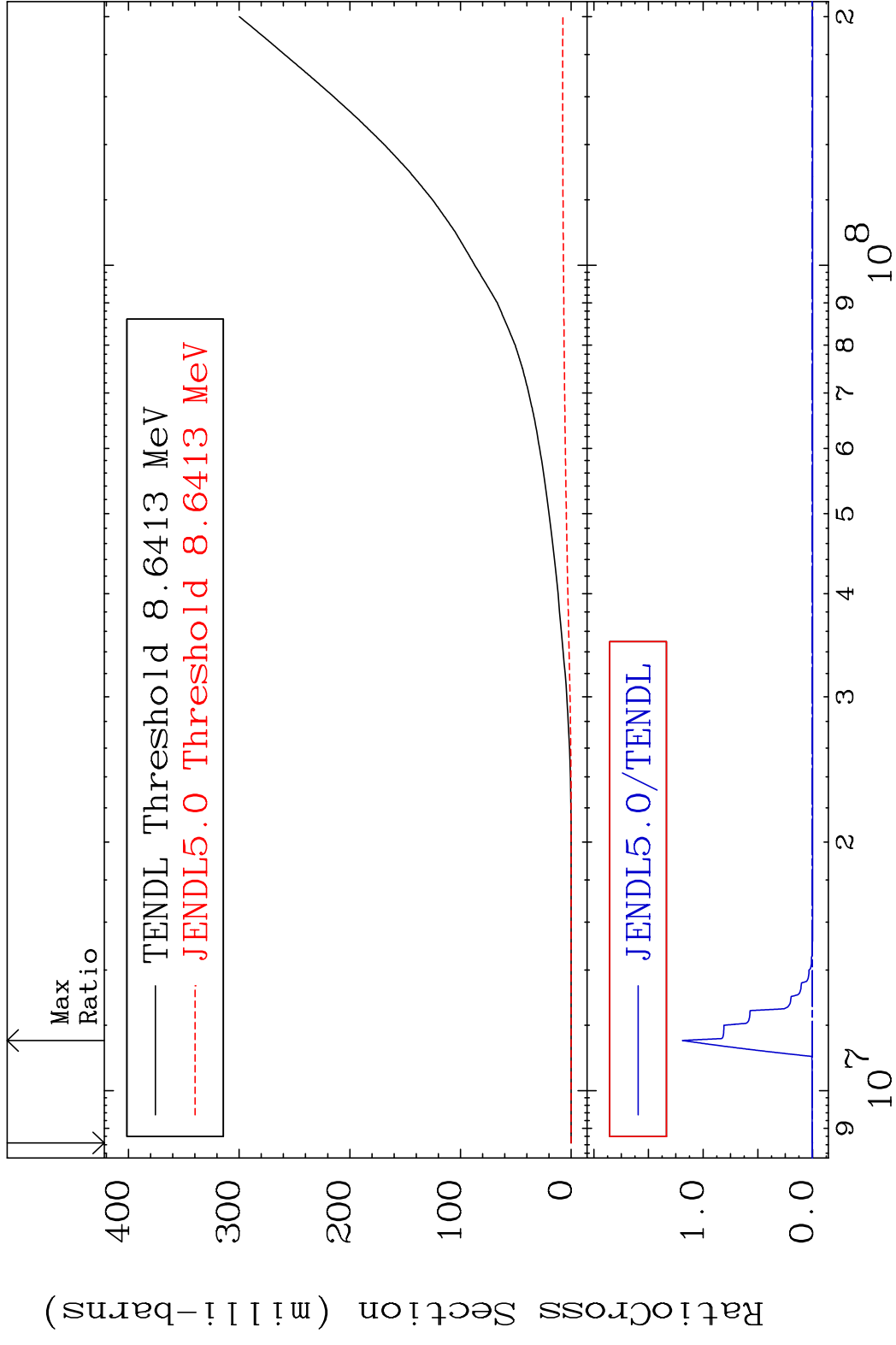


35 Incident Energy (eV) 40-Zr-91

MAT 4028 Tritium Production 40-Zr-91
 Cross Section -100.0 To 9494. %



MAT 4028 He-3 Production 40-Zr-91
 Cross Section -100.0 To 9999. %



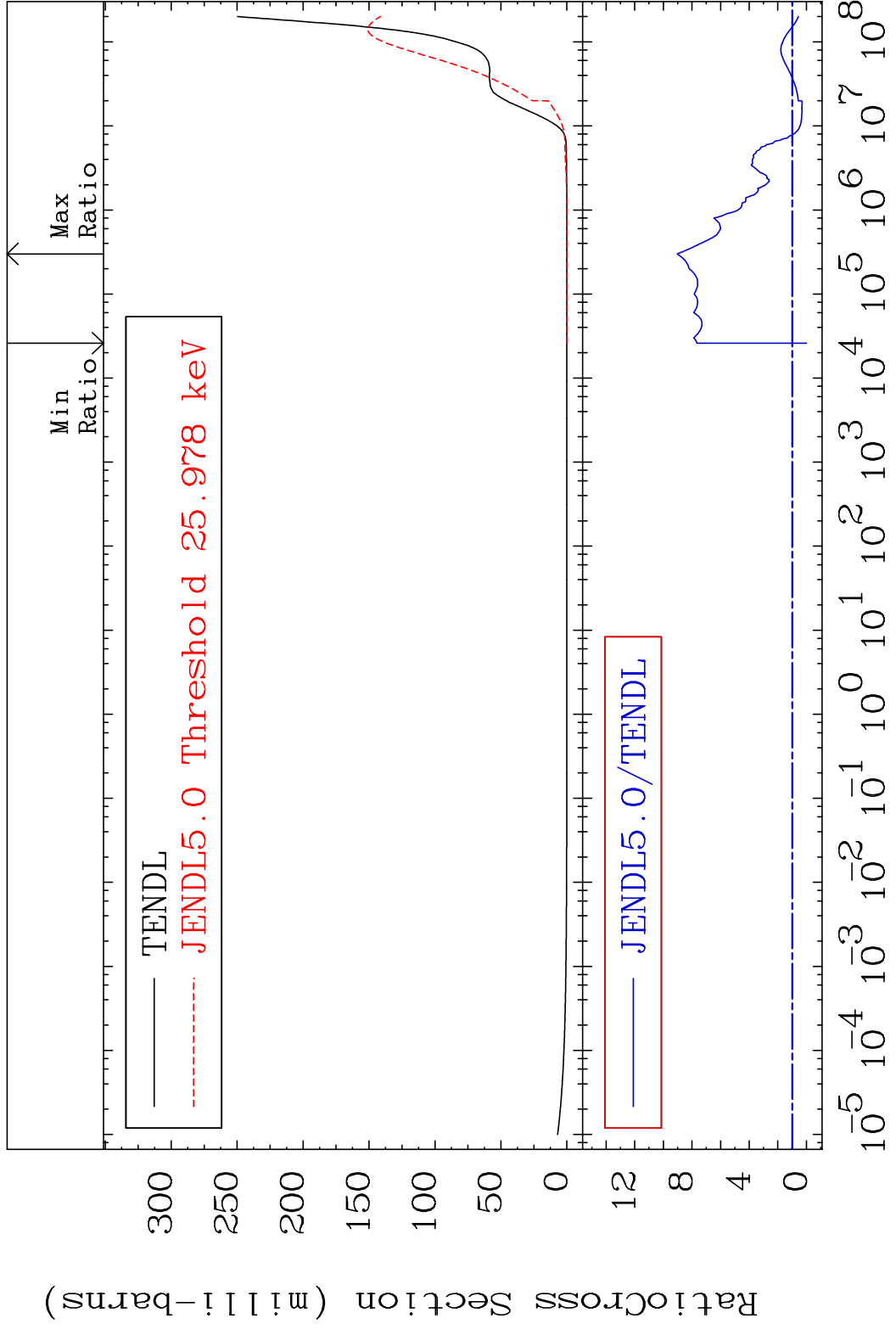
37 Incident Energy (eV) 40-Zr-91

MAT 4028

He-4 Production

40-Zr-91

Cross Section -100.0 To 803.2 %

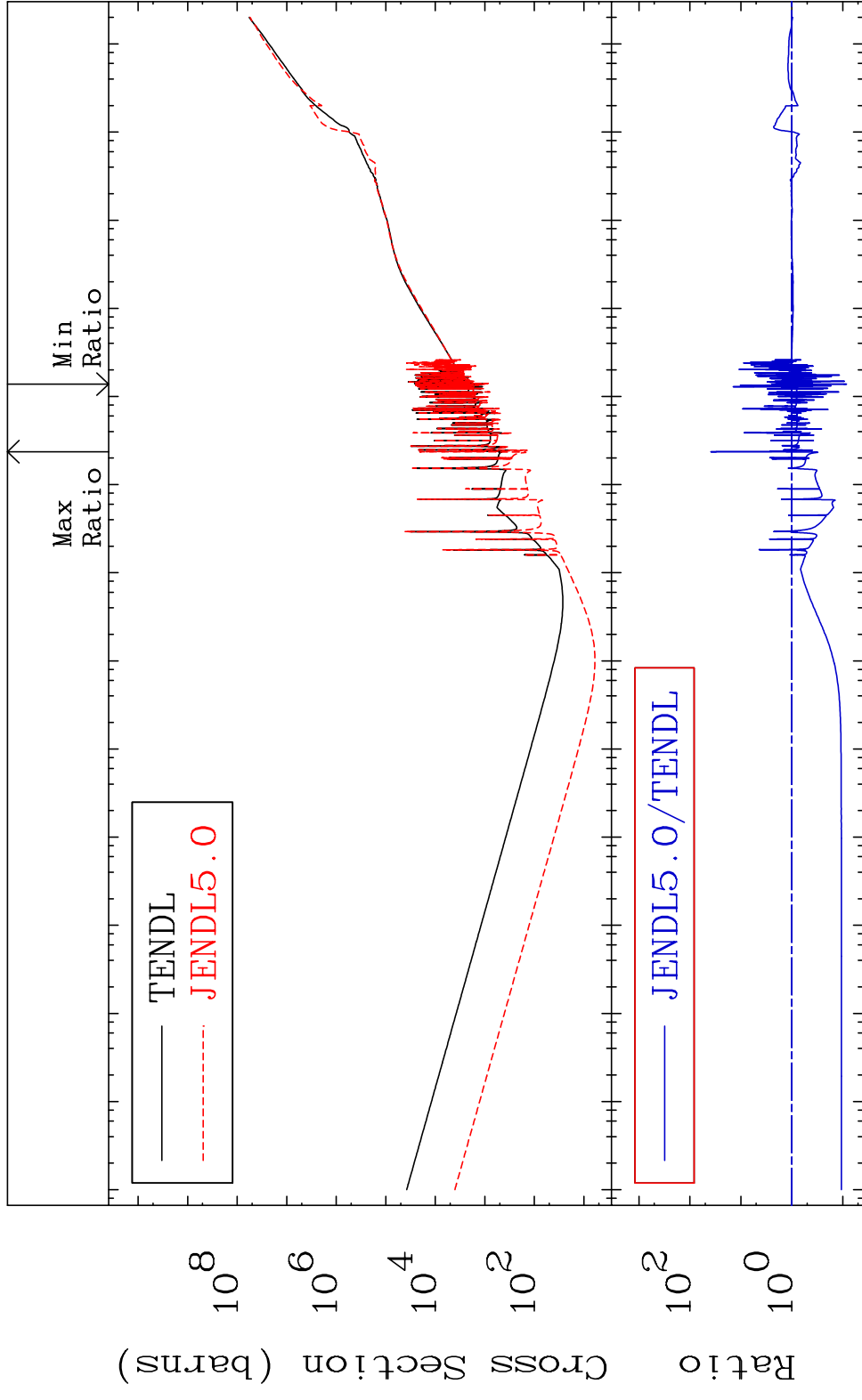


38

Incident Energy (eV)

40-Zr-91

MAT 4028 Kerma total (eV-barns) 40-Zr-91
 Cross Section -91.51 To 3796. %

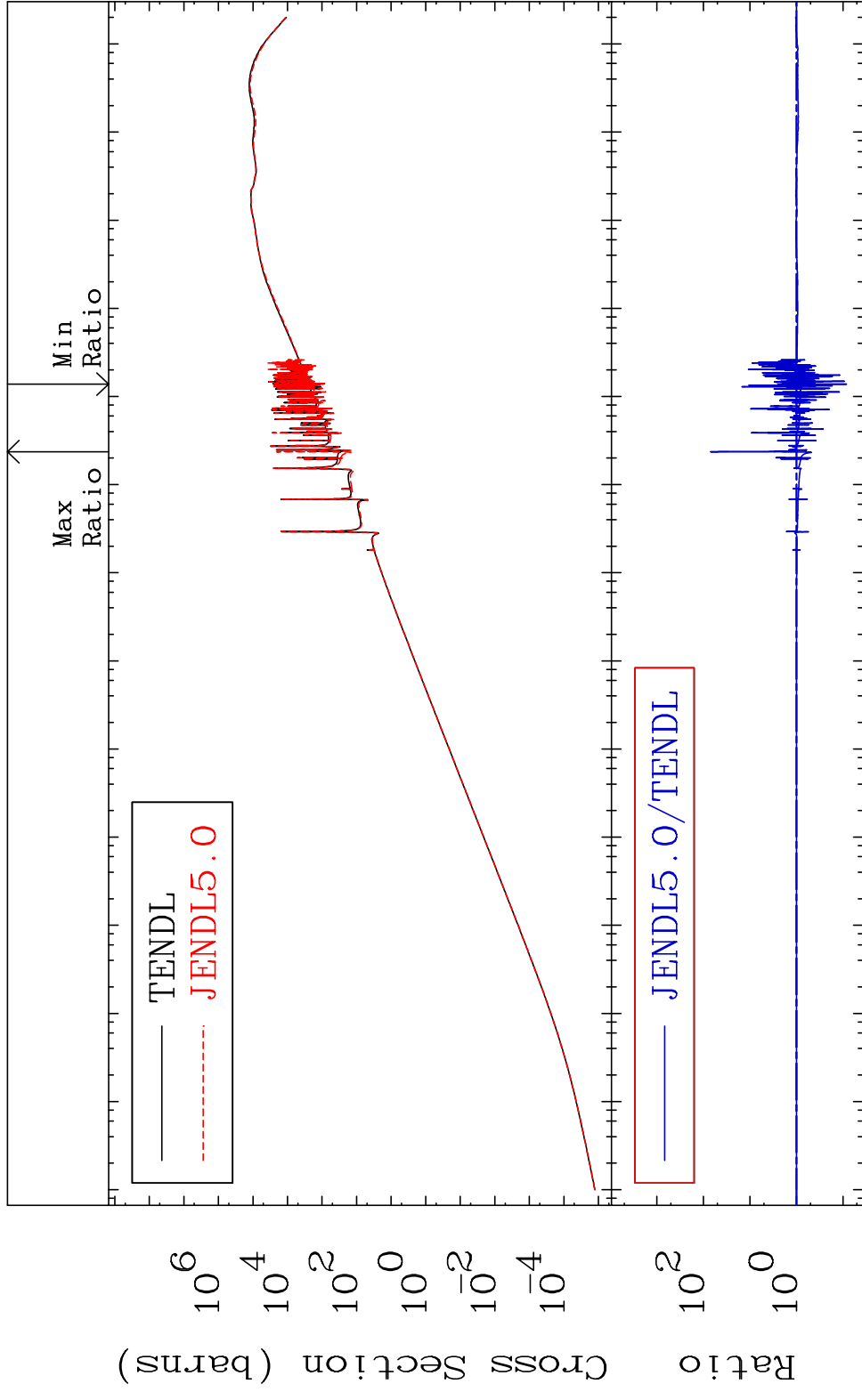


39 Incident Energy (eV) 40-Zr-91

MAT 4028

Kerma elastic
Cross Section

40-Zr-91
-91.54 To 6848. %



Ratio

10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴

10²
10⁰

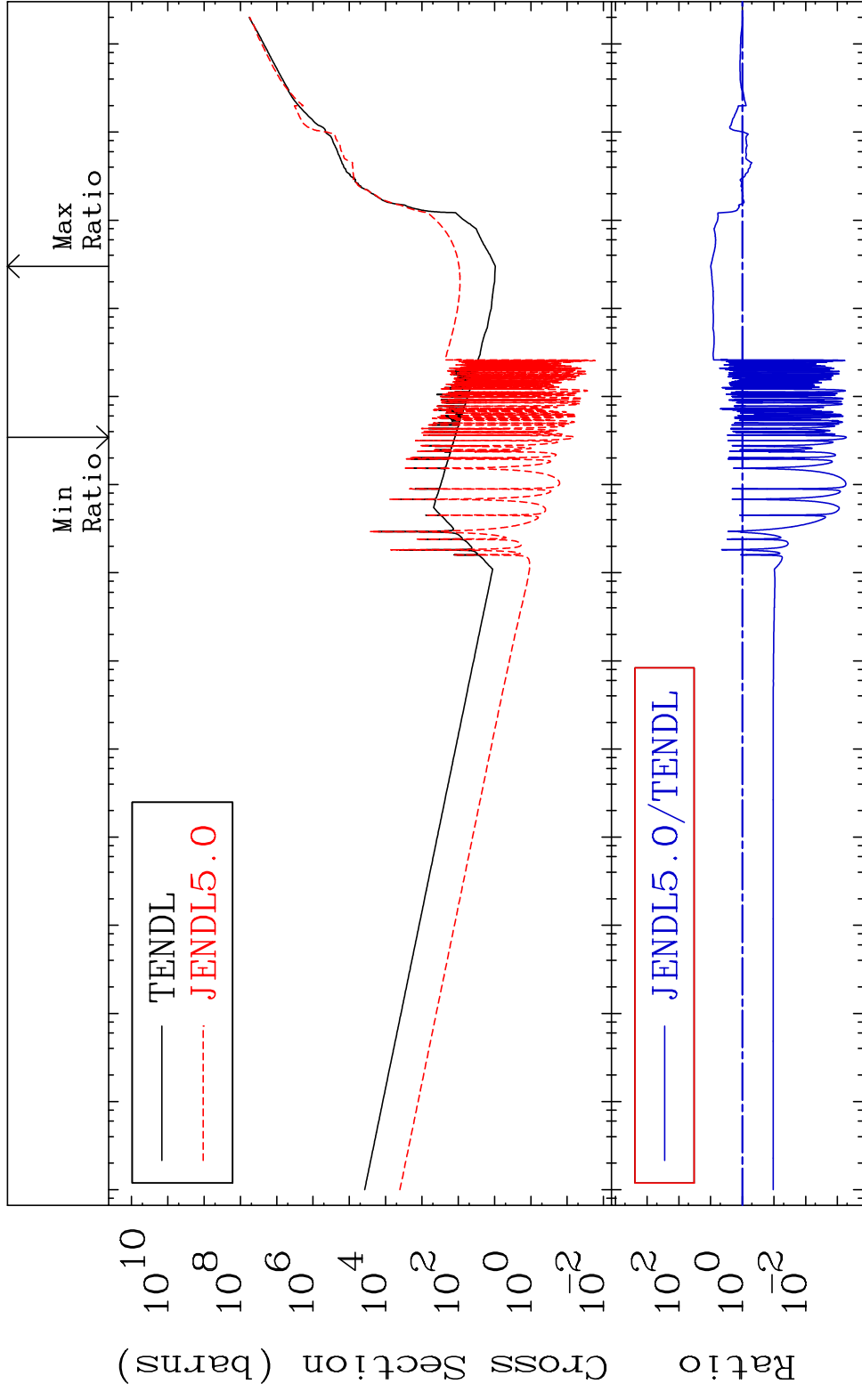
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

40

Incident Energy (eV)

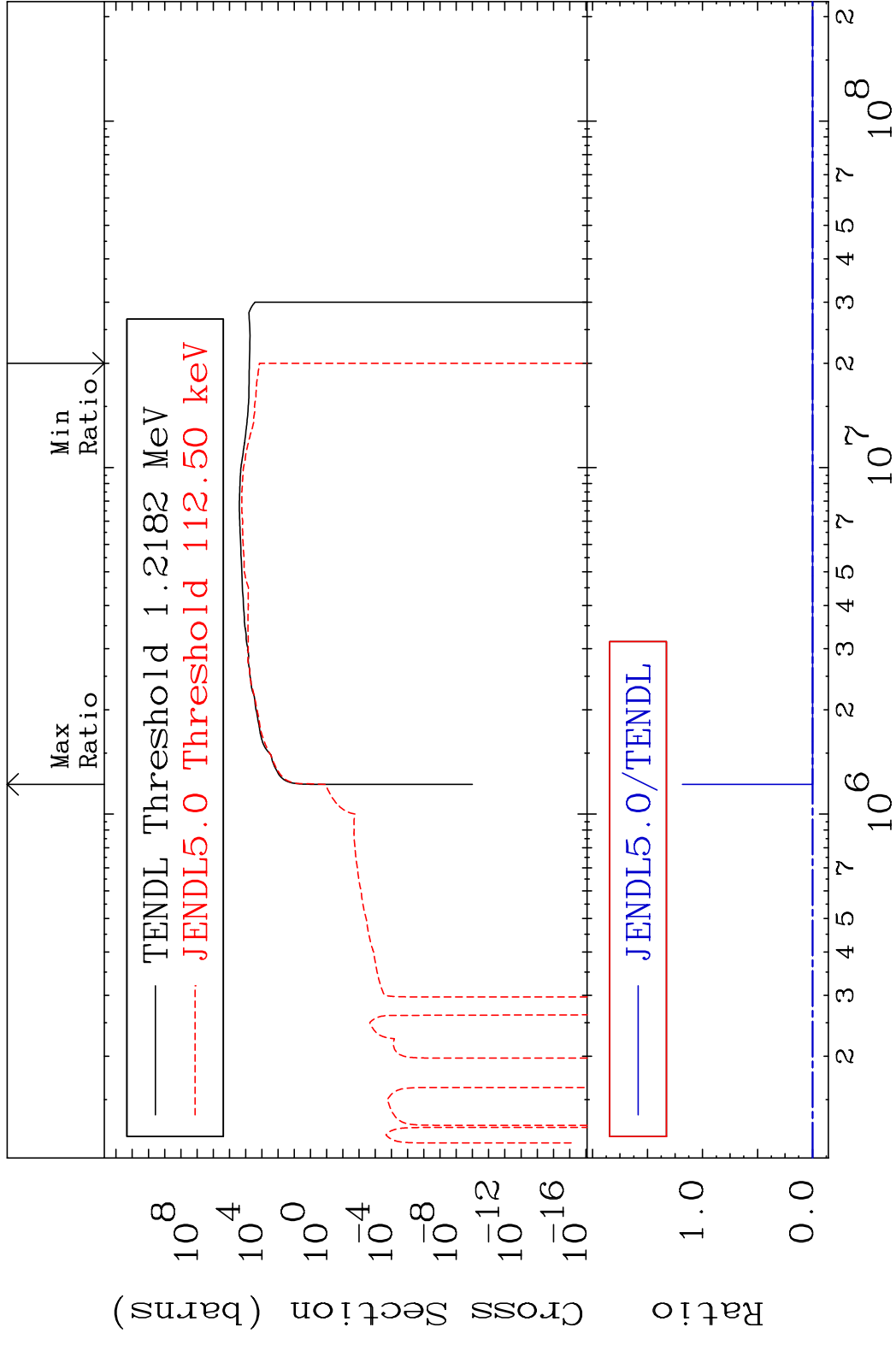
40-Zr-91

MAT 4028 Kerma non-elastic (all but mt2) 40-Zr-91
 Cross Section -99.95 To 891.8 %



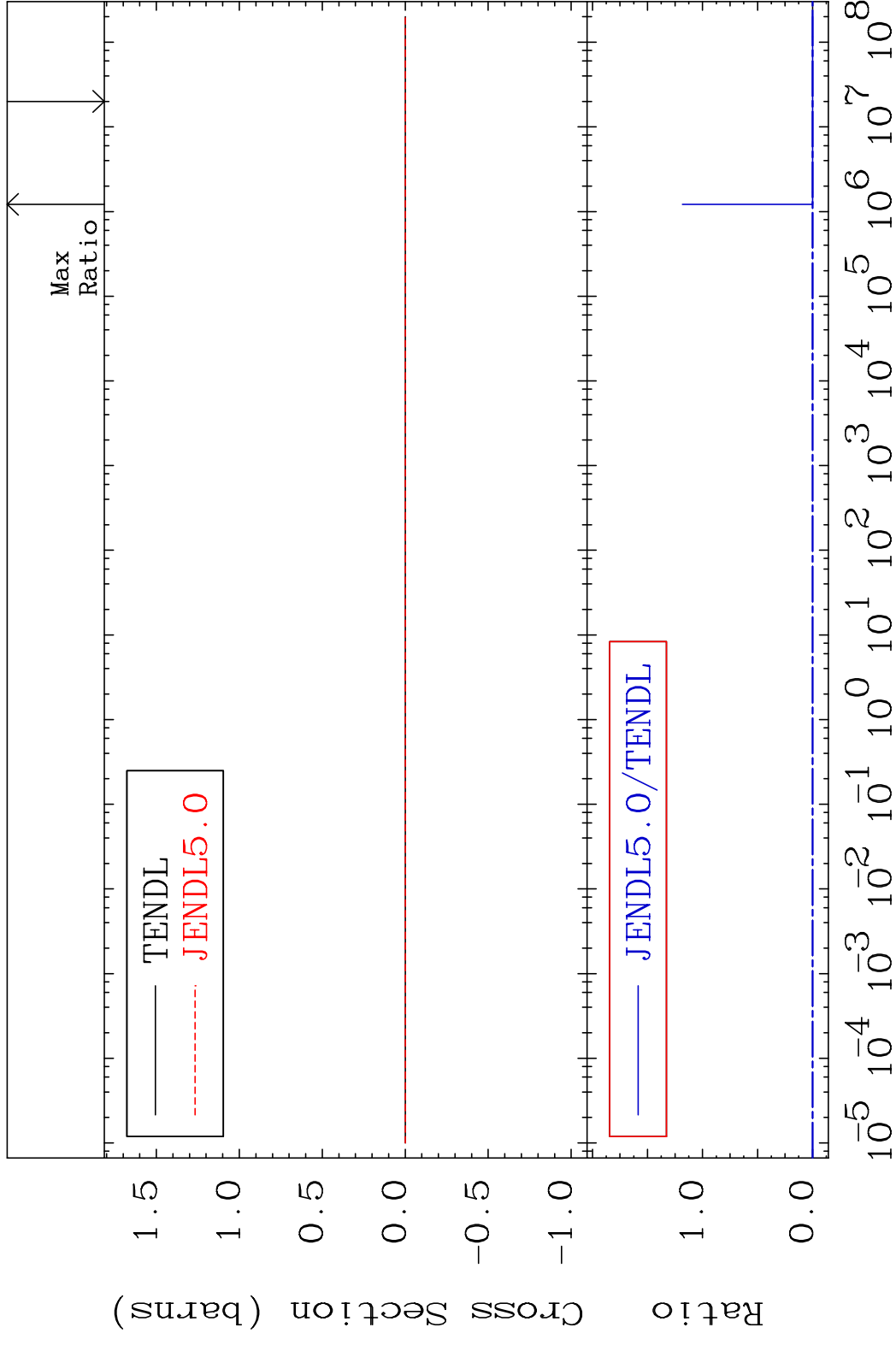
41 Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma inelastic (mt51-91) 40-Zr-91
 Cross Section -100.0 To 9999. %



42 Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-91
 Cross Section -100.0 To 9999. %



43

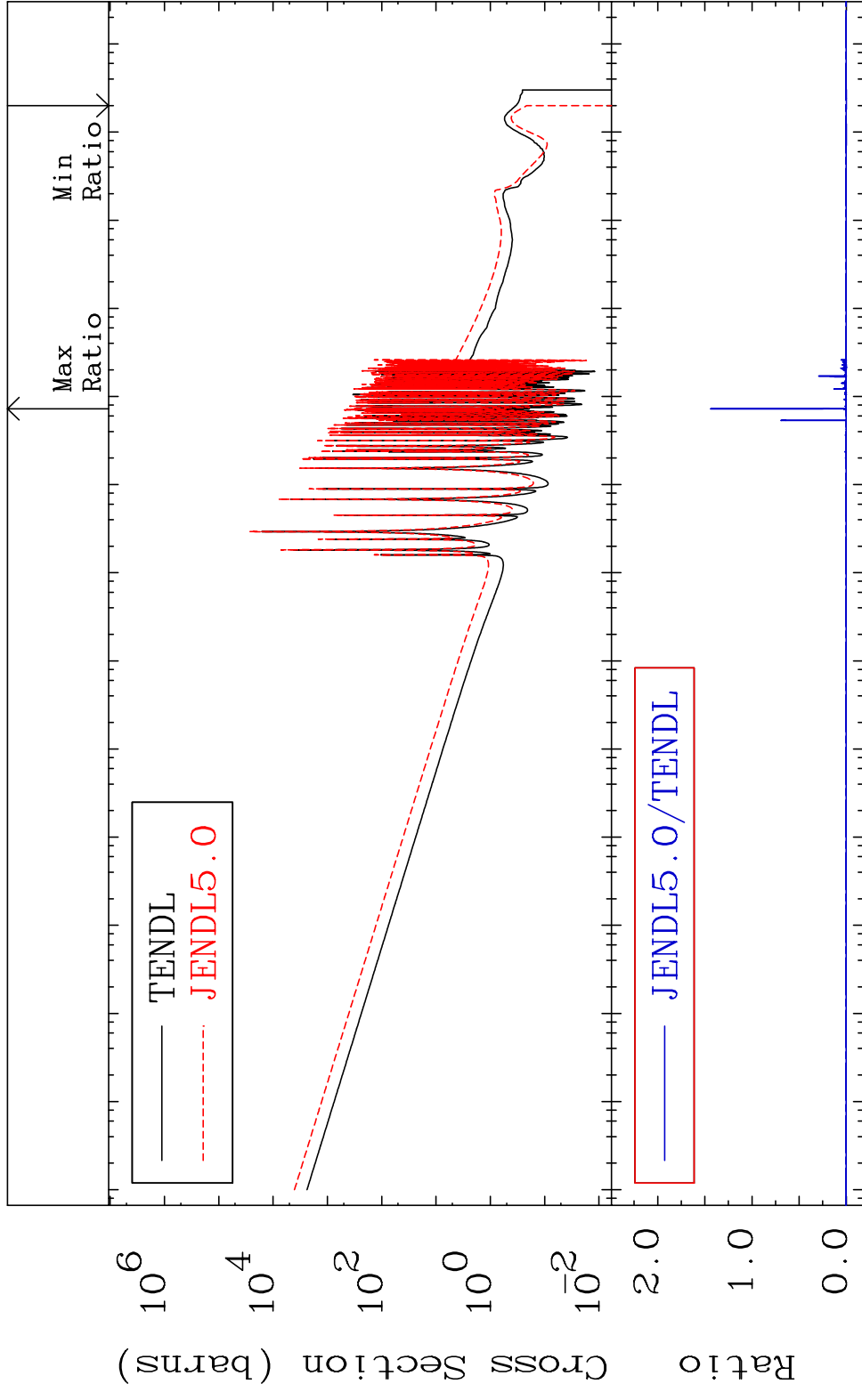
Incident Energy (eV)

40-Zr-91

MAT 4028

Kerma capture (mt102) 40-Zr-91

Cross Section -100.0 To 9999. %

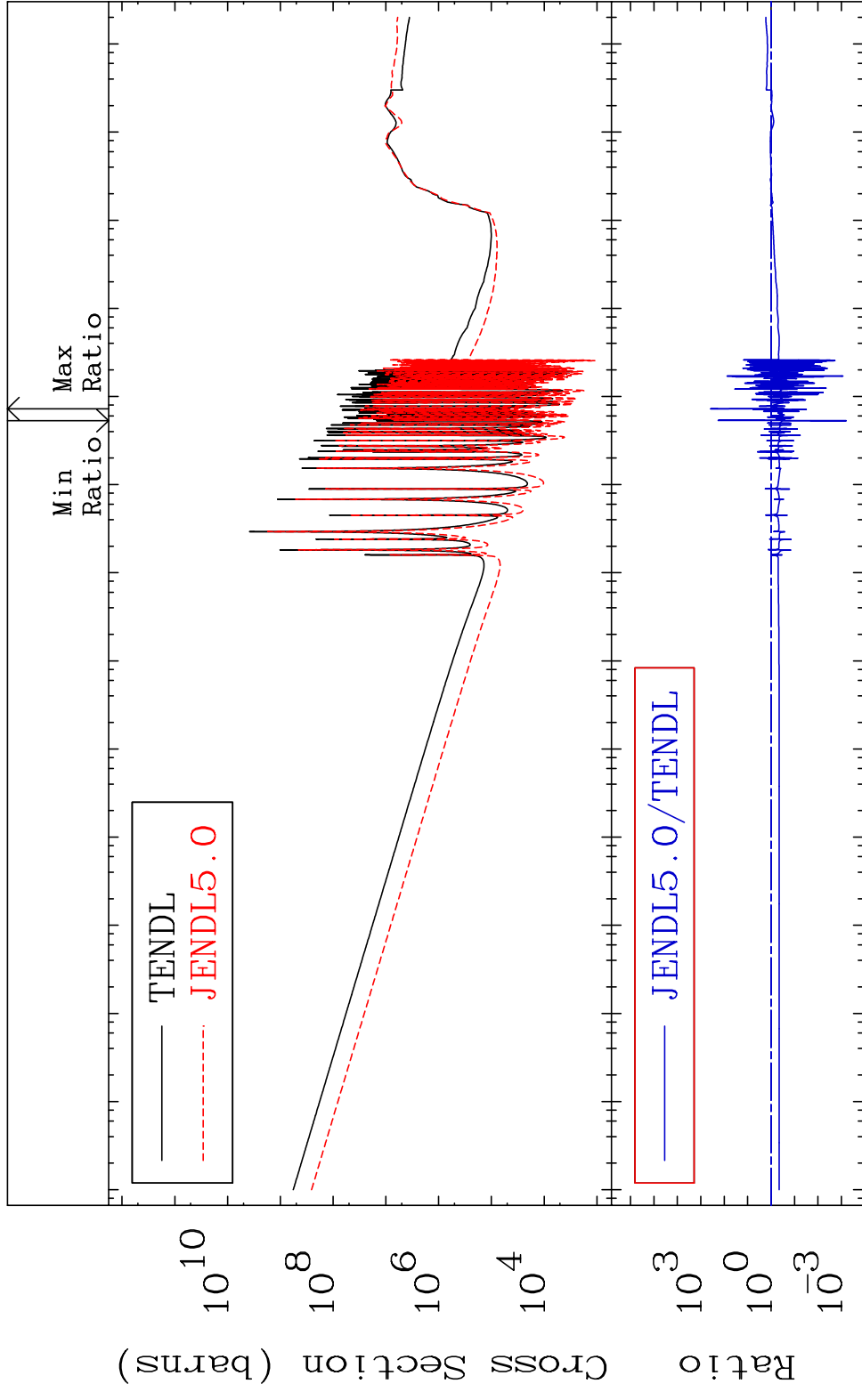


44

Incident Energy (eV)

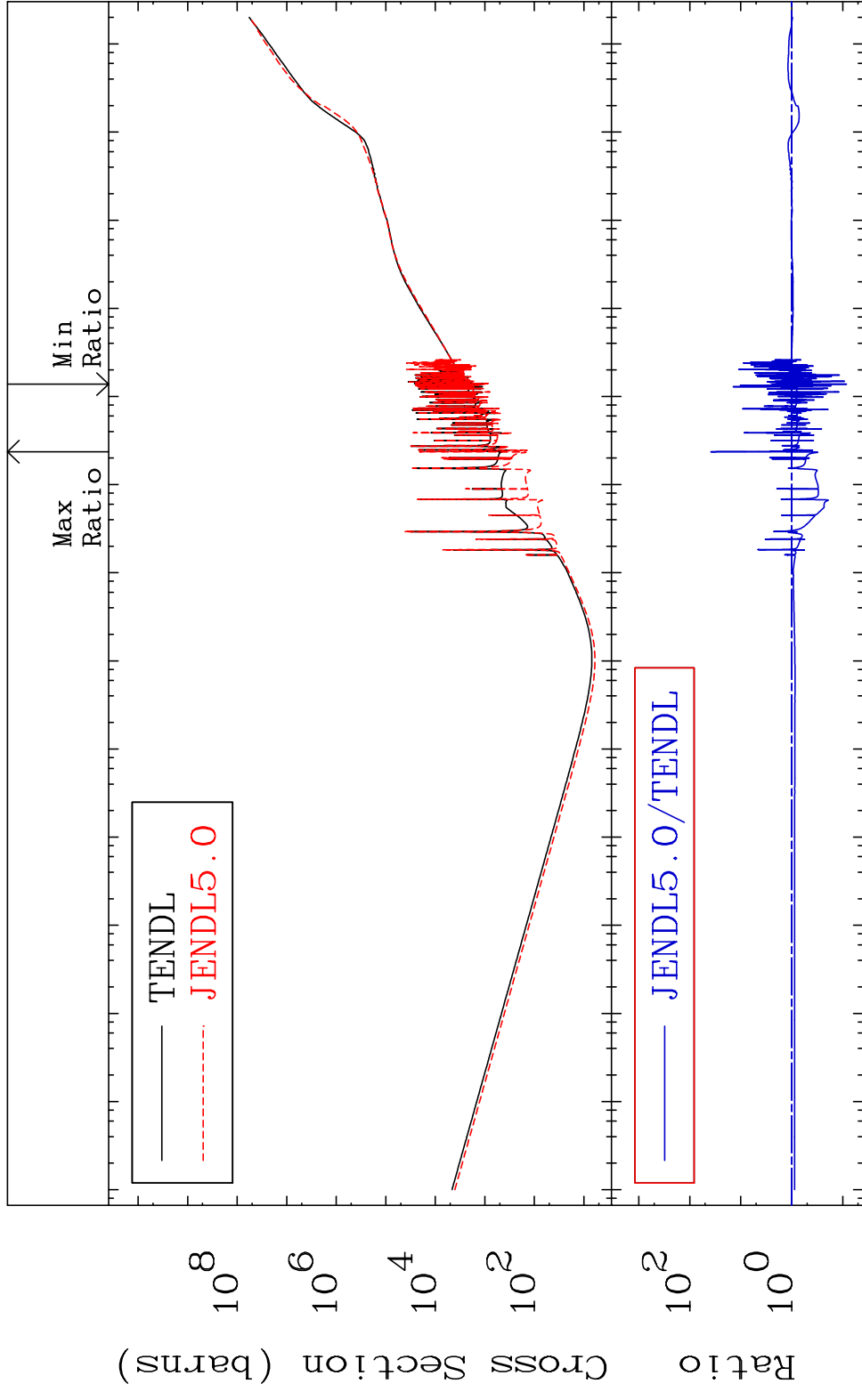
40-Zr-91

MAT 4028 Total photon (eV-barns) 40-Zr-91
Cross Section -99.94 To 9999. %

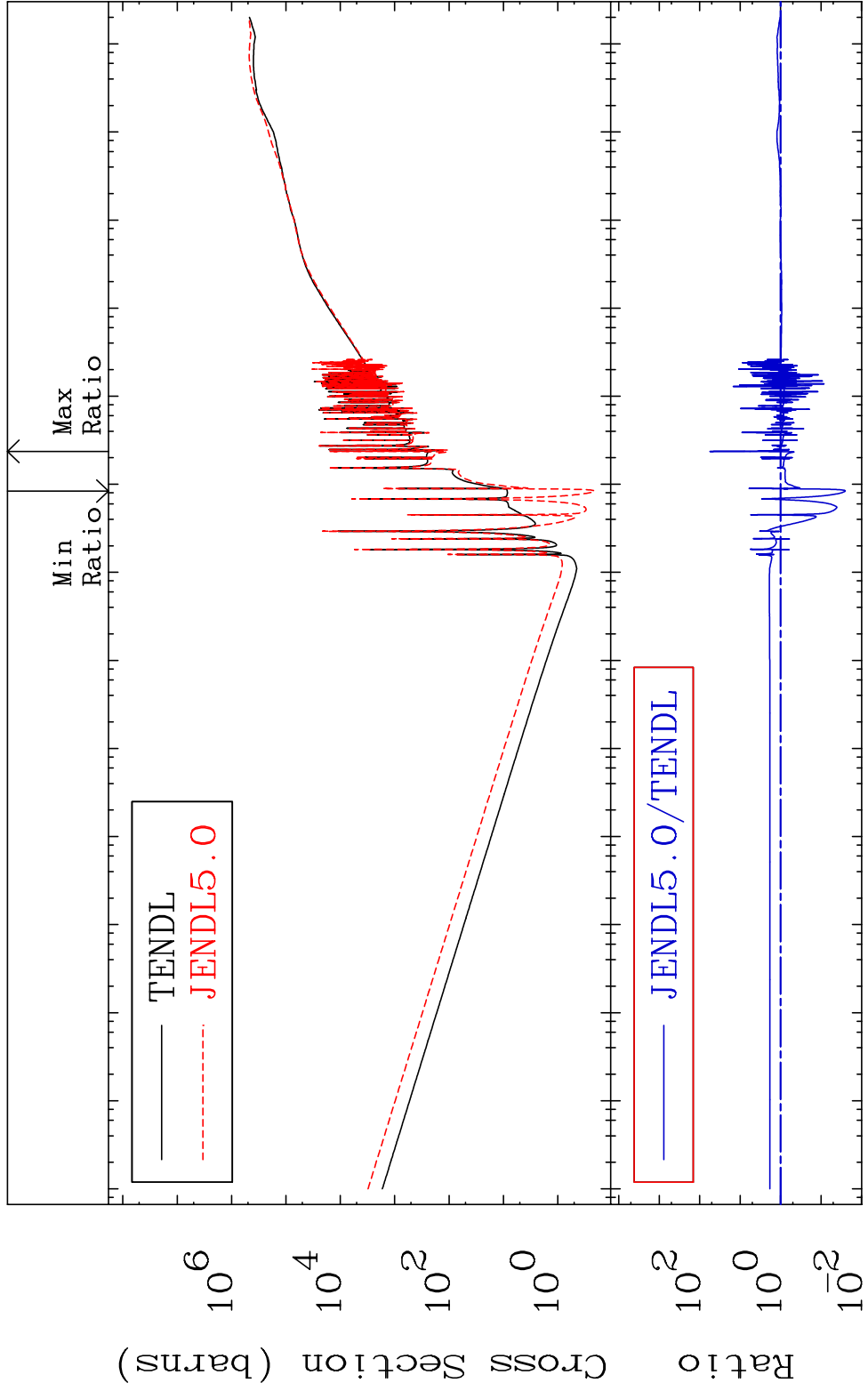


45 Incident Energy (eV) 40-Zr-91

MAT 4028 Total kinematic kerma (high limit) 40-Zr-91
 Cross Section -91.51 To 3784. %



MAT 4028 Dpa total (eV-barns) 40-Zr-91
Cross Section -97.48 To 5516. %



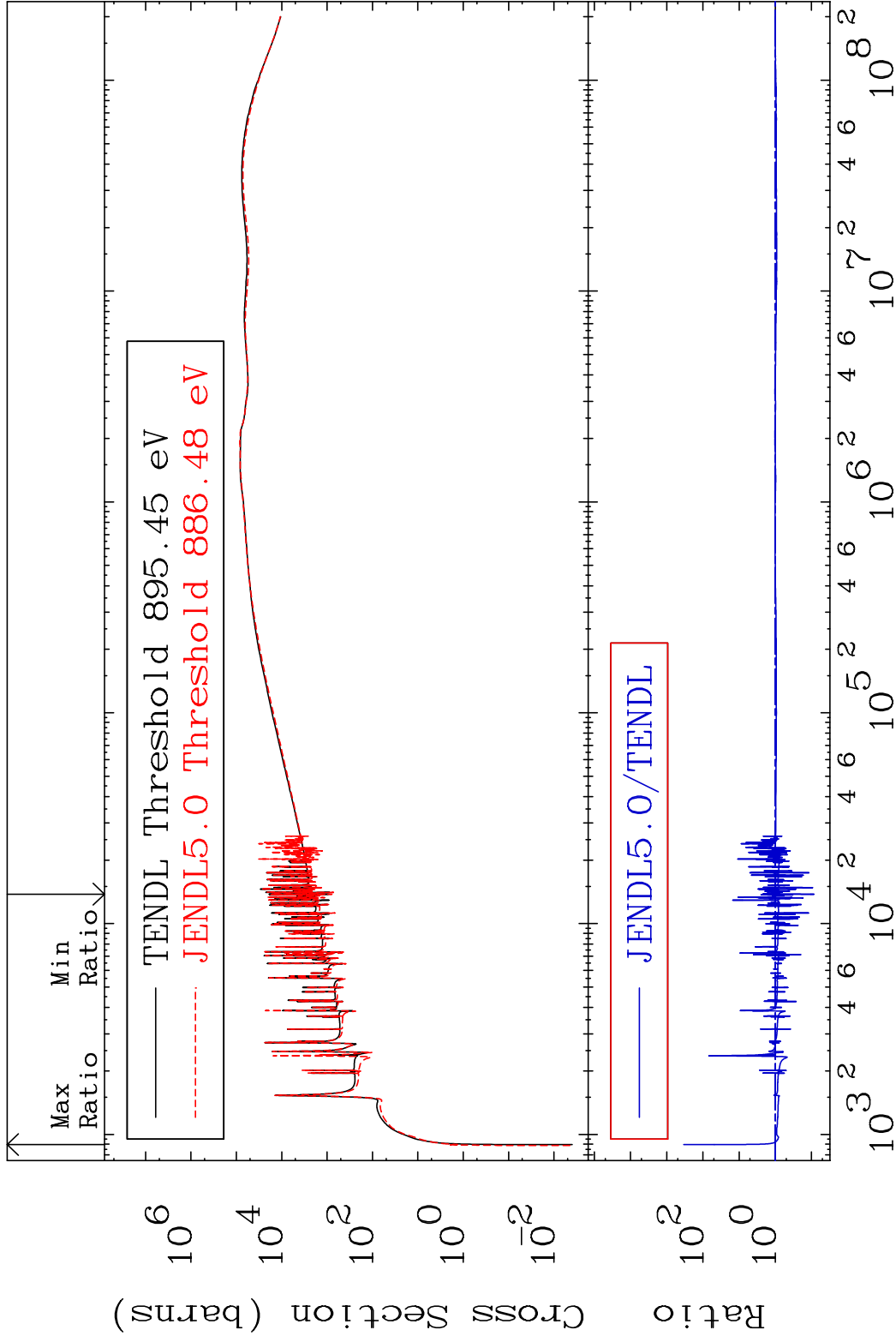
47 Incident Energy (eV) 40-Zr-91

MAT 4028

Dpa elastic (mt2)

40-Zr-91

Cross Section -91.54 To 9999. %

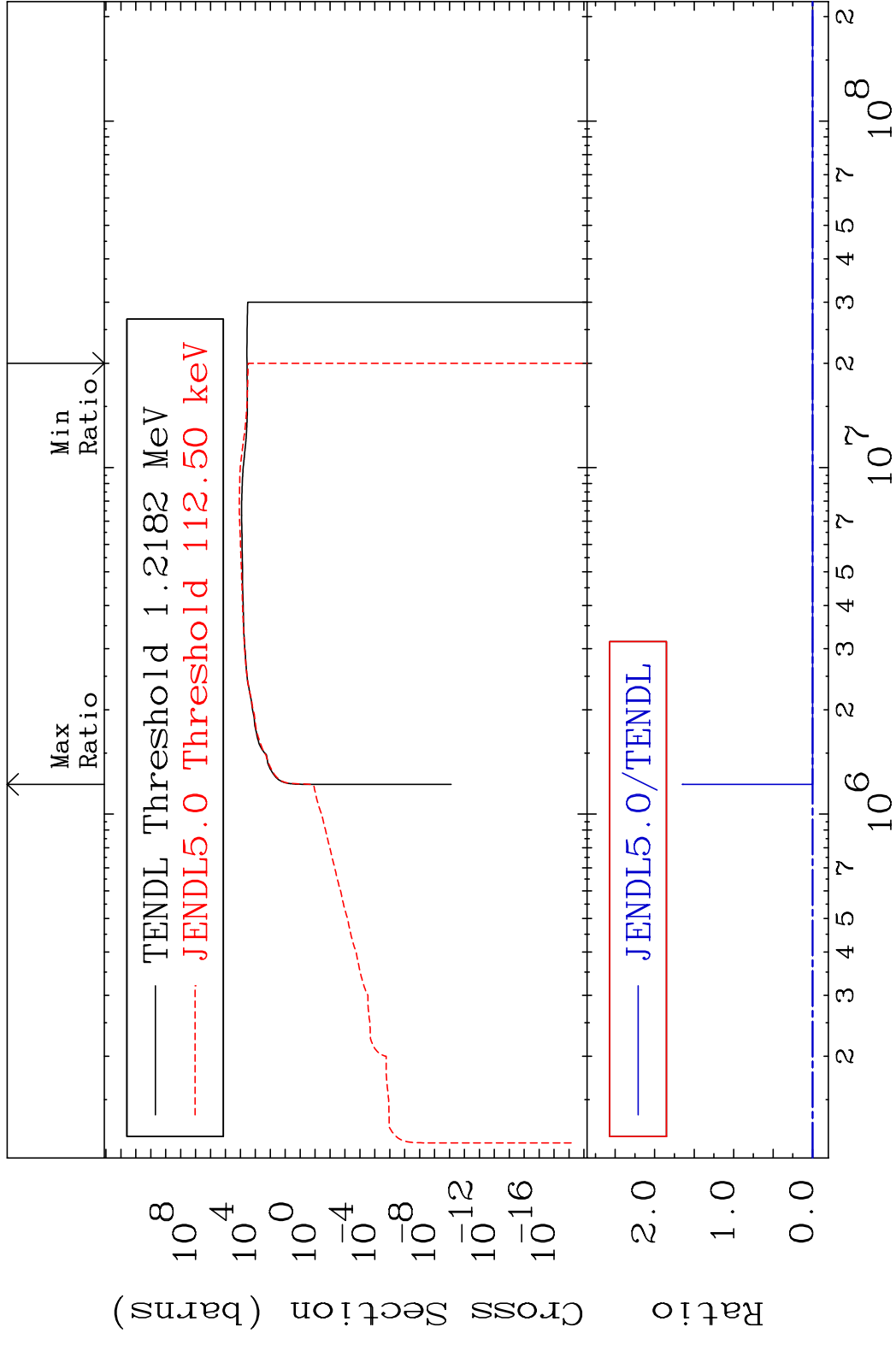


48

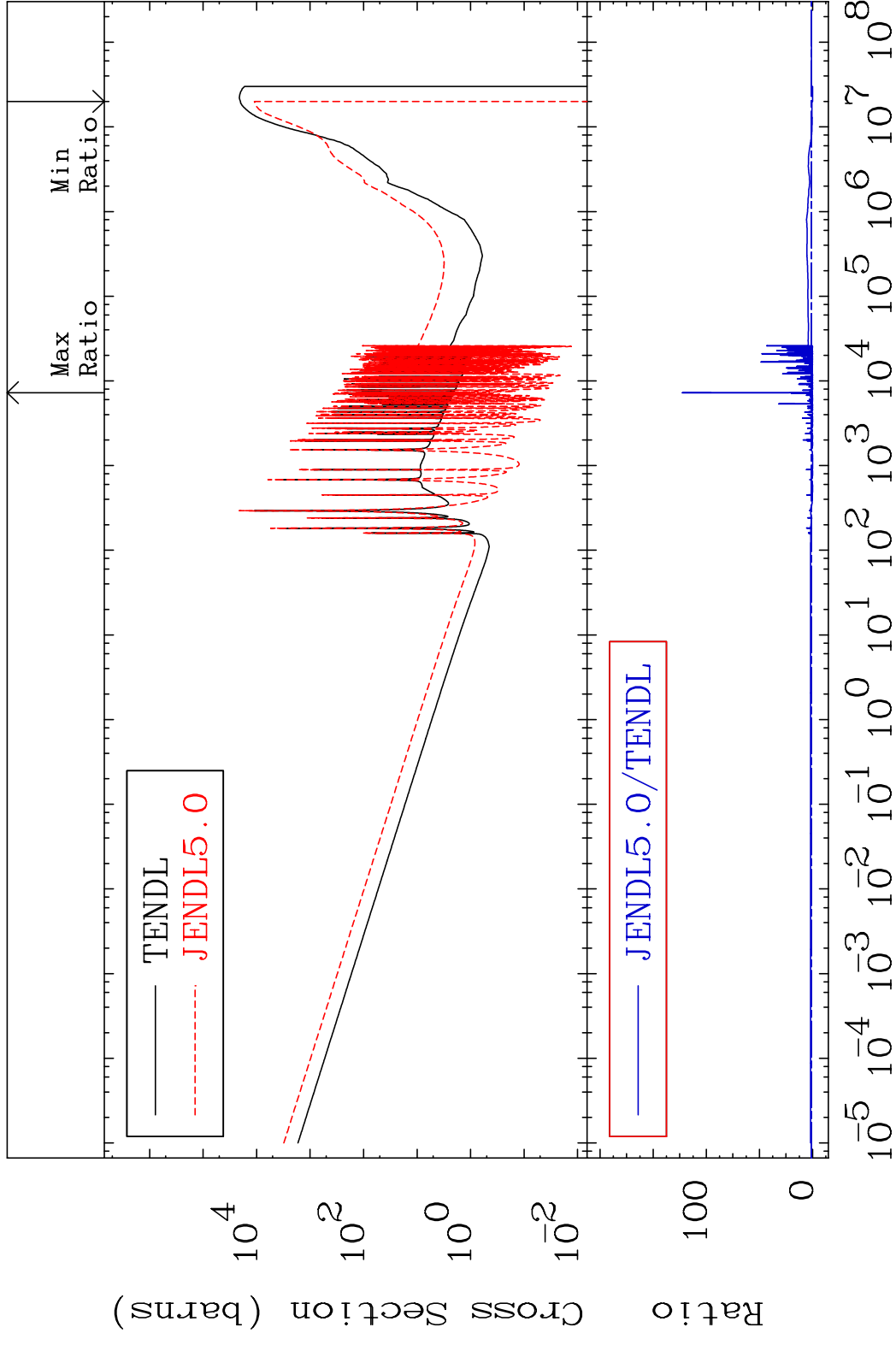
Incident Energy (eV)

40-Zr-91

MAT 4028 Dpa inelastic (mt51-91) 40-Zr-91
 Cross Section -100.0 To 9999. %

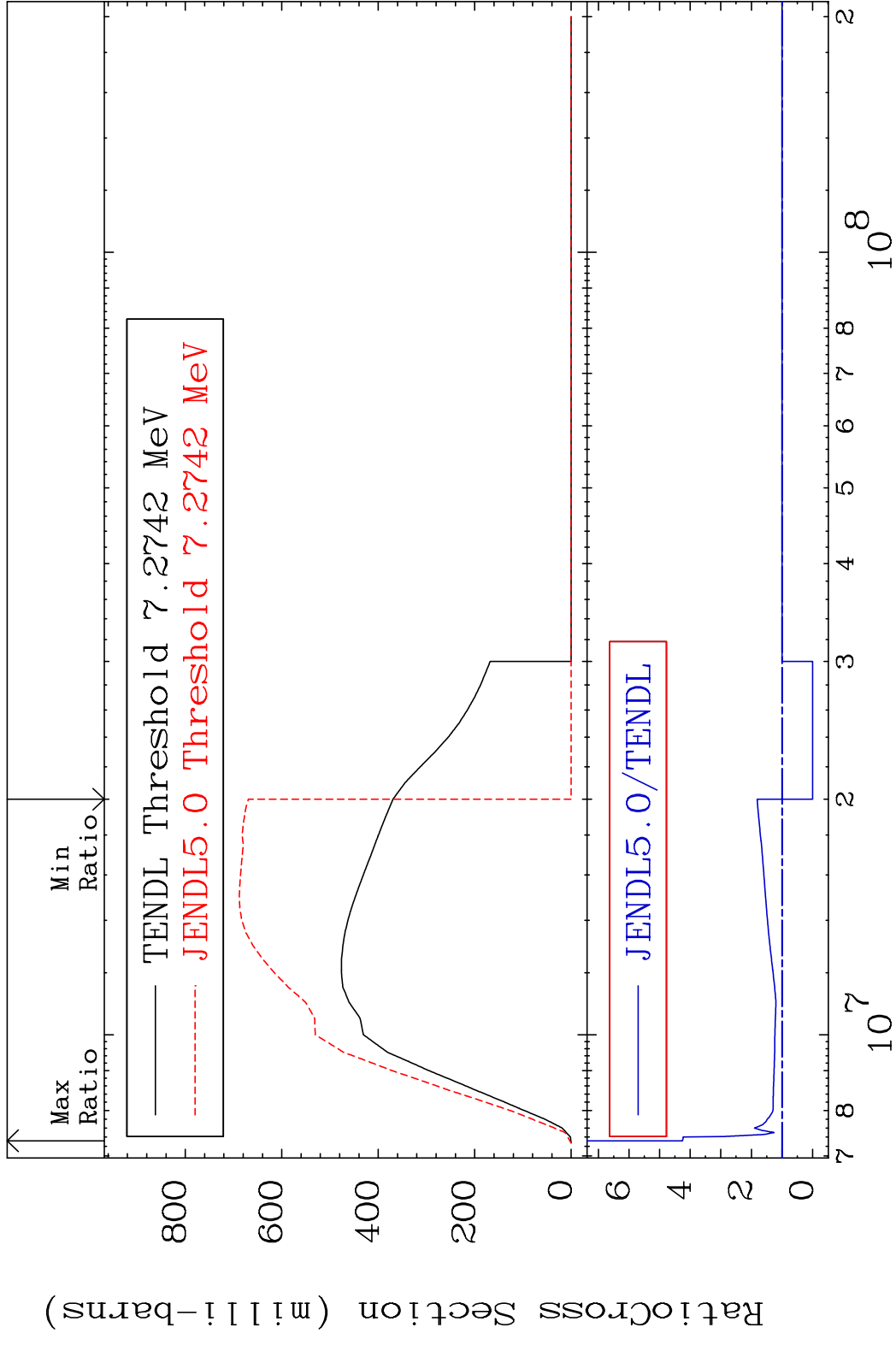


MAT 4028 Dpa disappearance (mt102 -120) 40-Zr-91
 Cross Section -100.0 To 9999. %

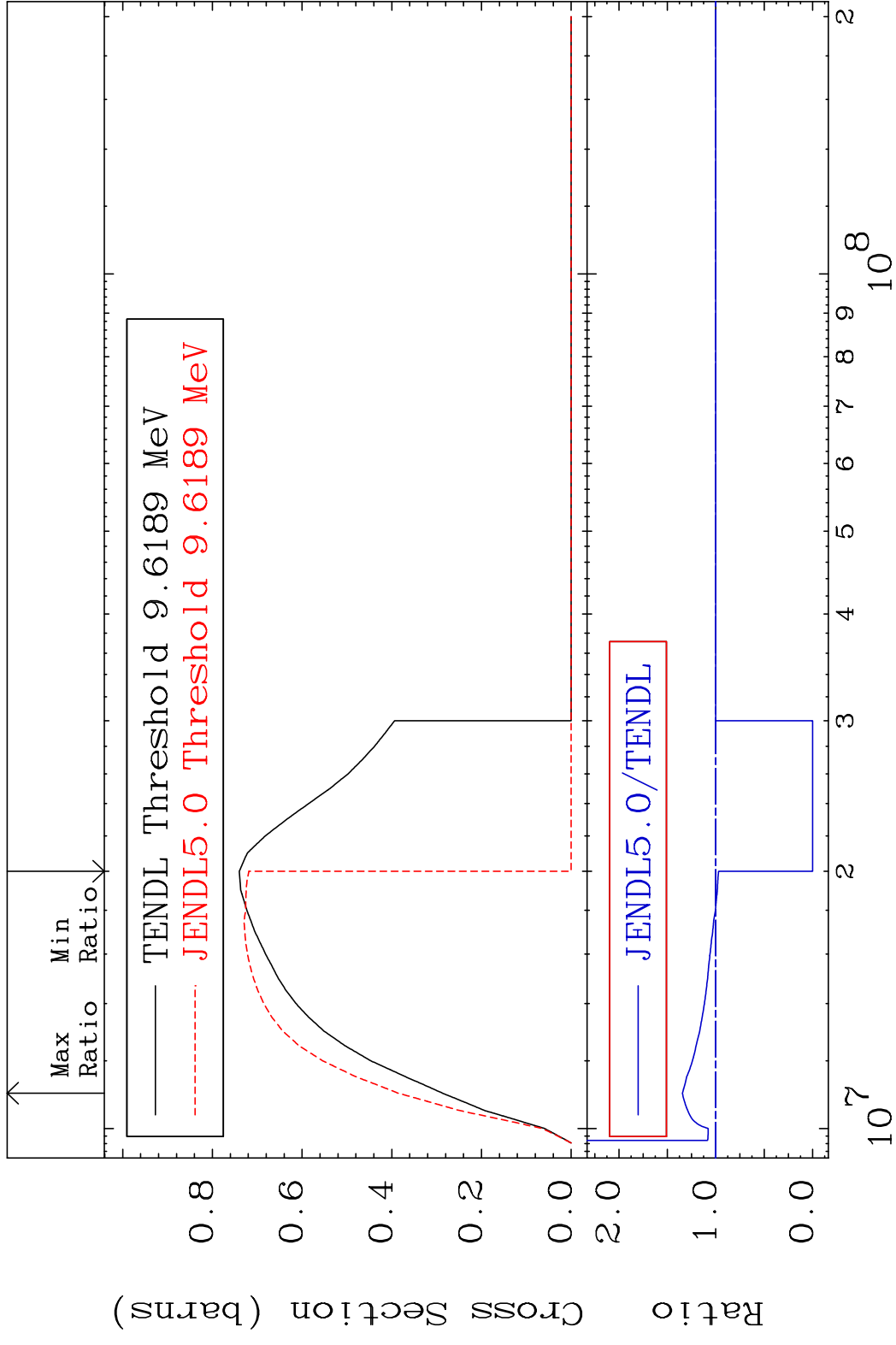


50 Incident Energy (eV) 40-Zr-91

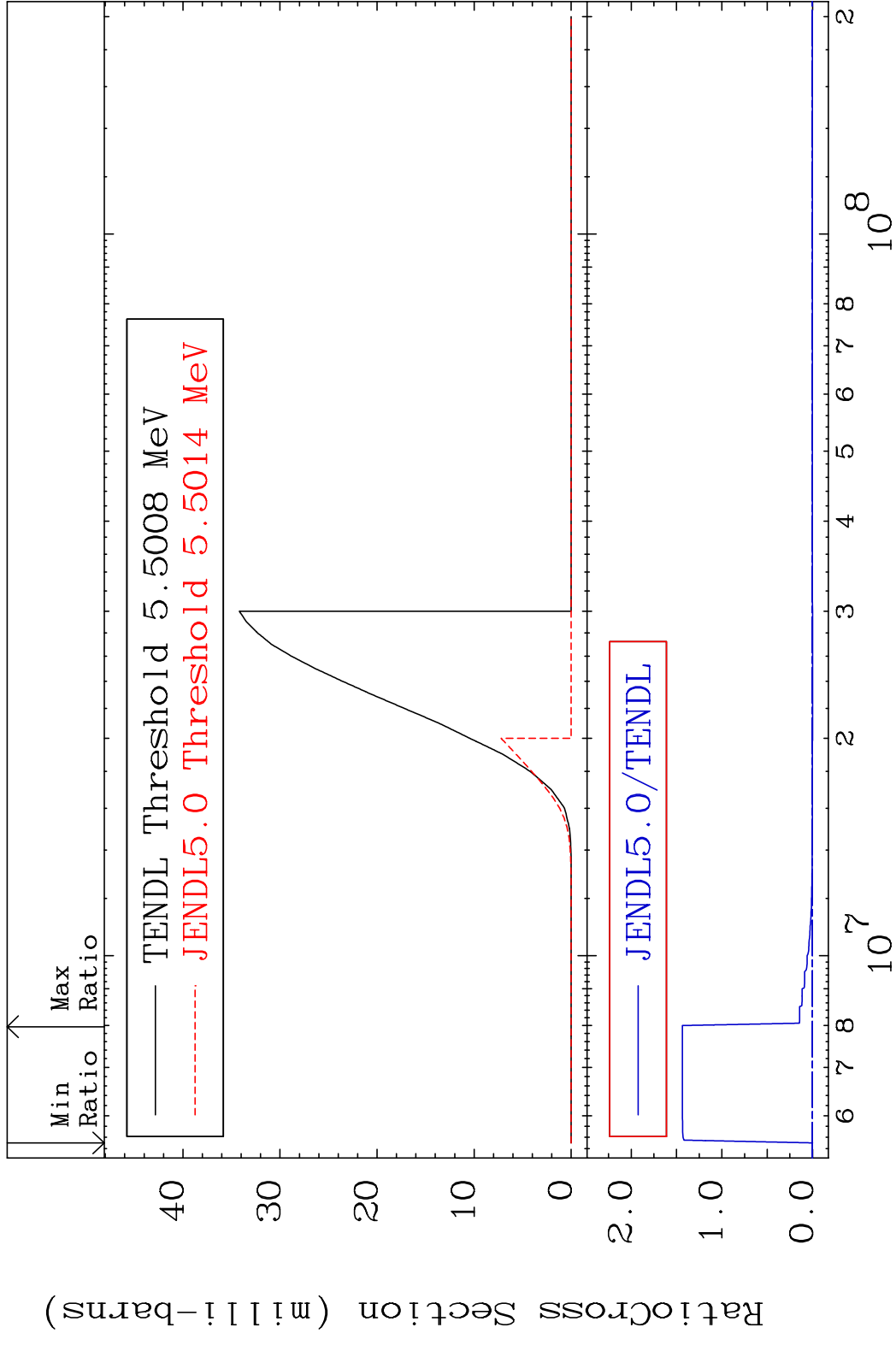
MAT 4028 (n,2n):40-Zr-90g 40-Zr-91
 Radionuclide Production Cross Section 180.0 dth 325.7 %



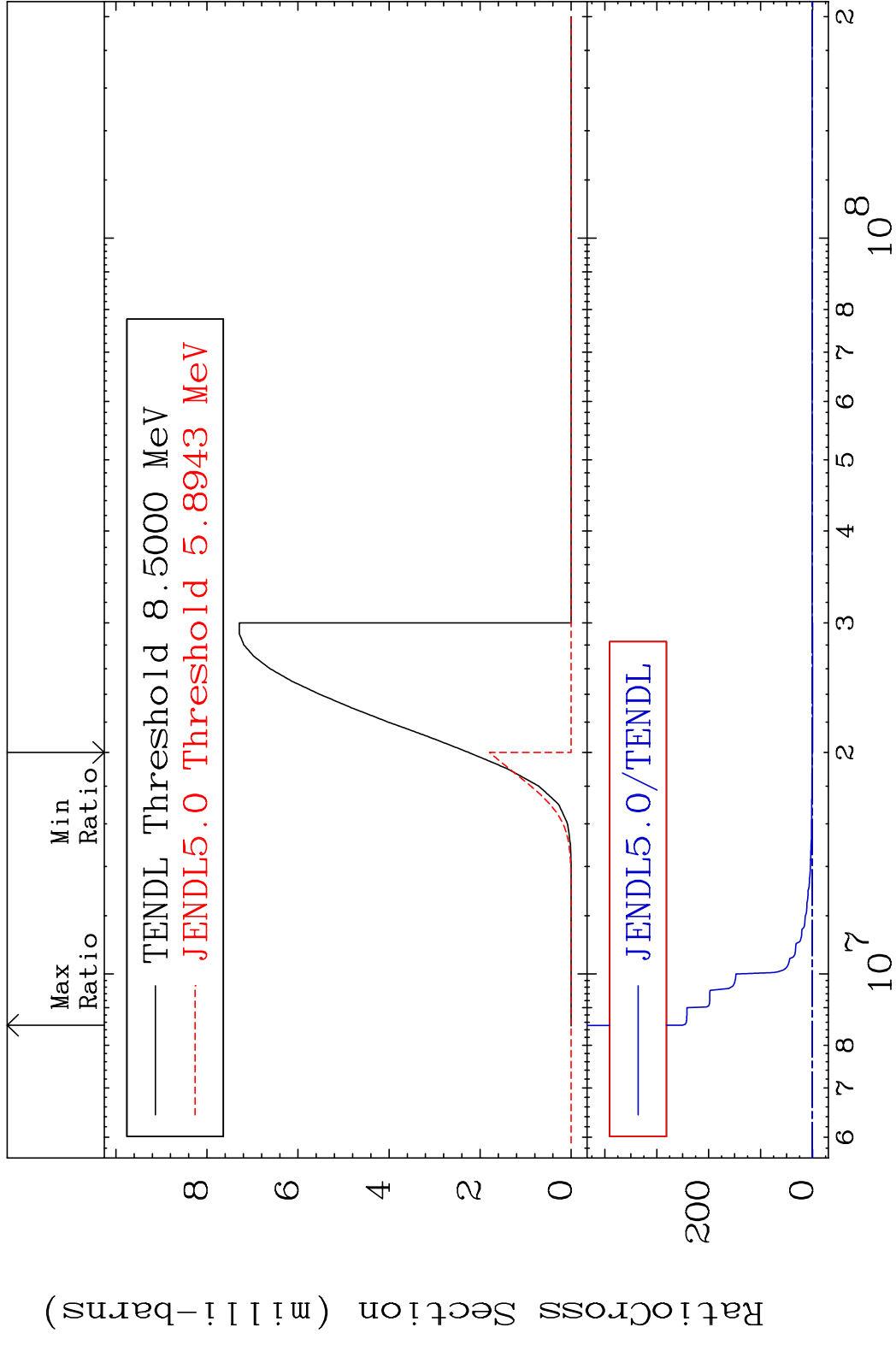
MAT 4028 (n,2n):40-Zr-90m3 40-Zr-91
 Radionuclide Production Cross Section Ratio 34.50 %



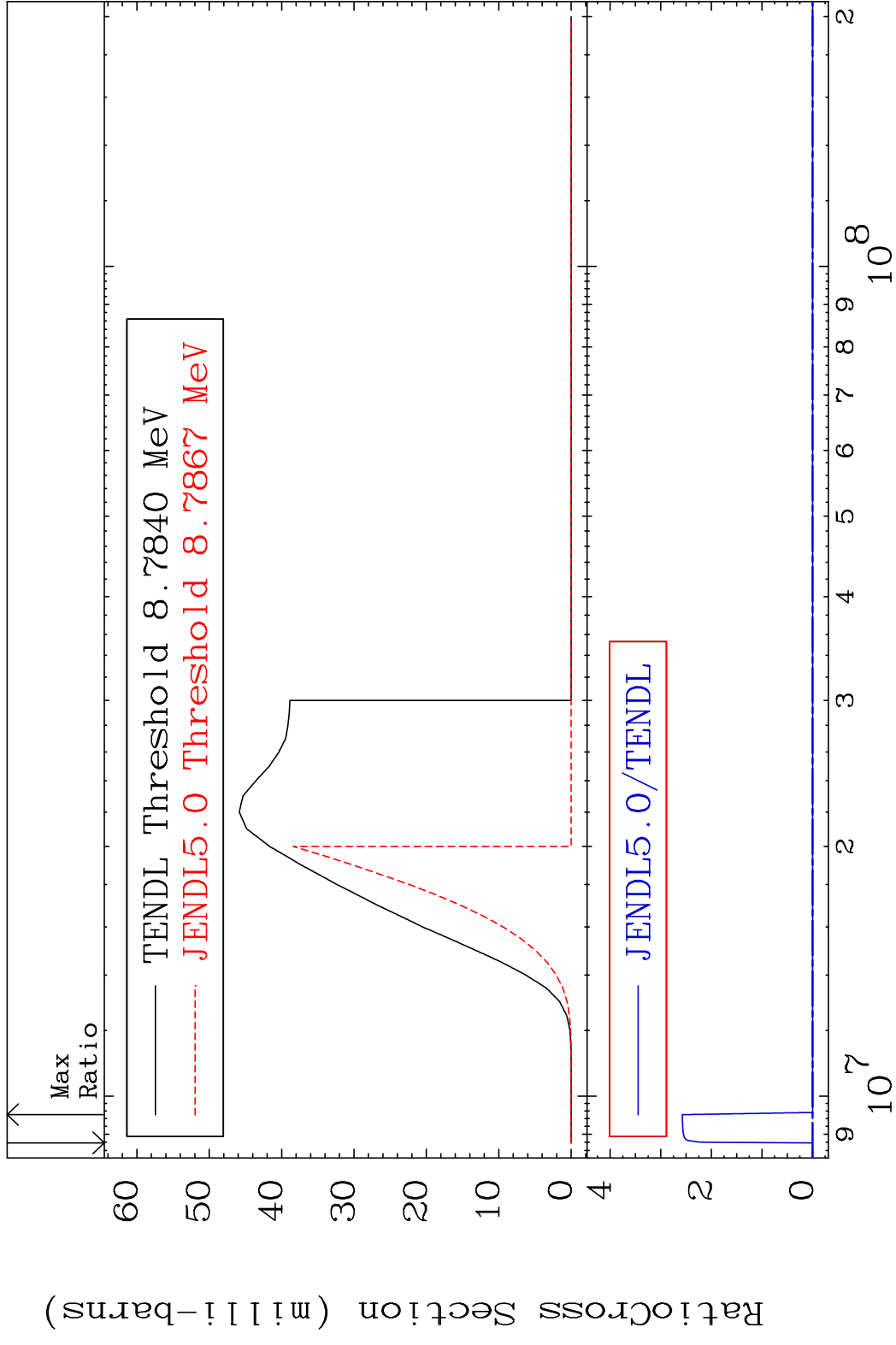
MAT 4028 (n, n') α :38-Sr-87g 40-Zr-91
 Radionuclide Production Cross Section Ratio



MAT 4028 (n, n') α :38-Sr-87m1 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %

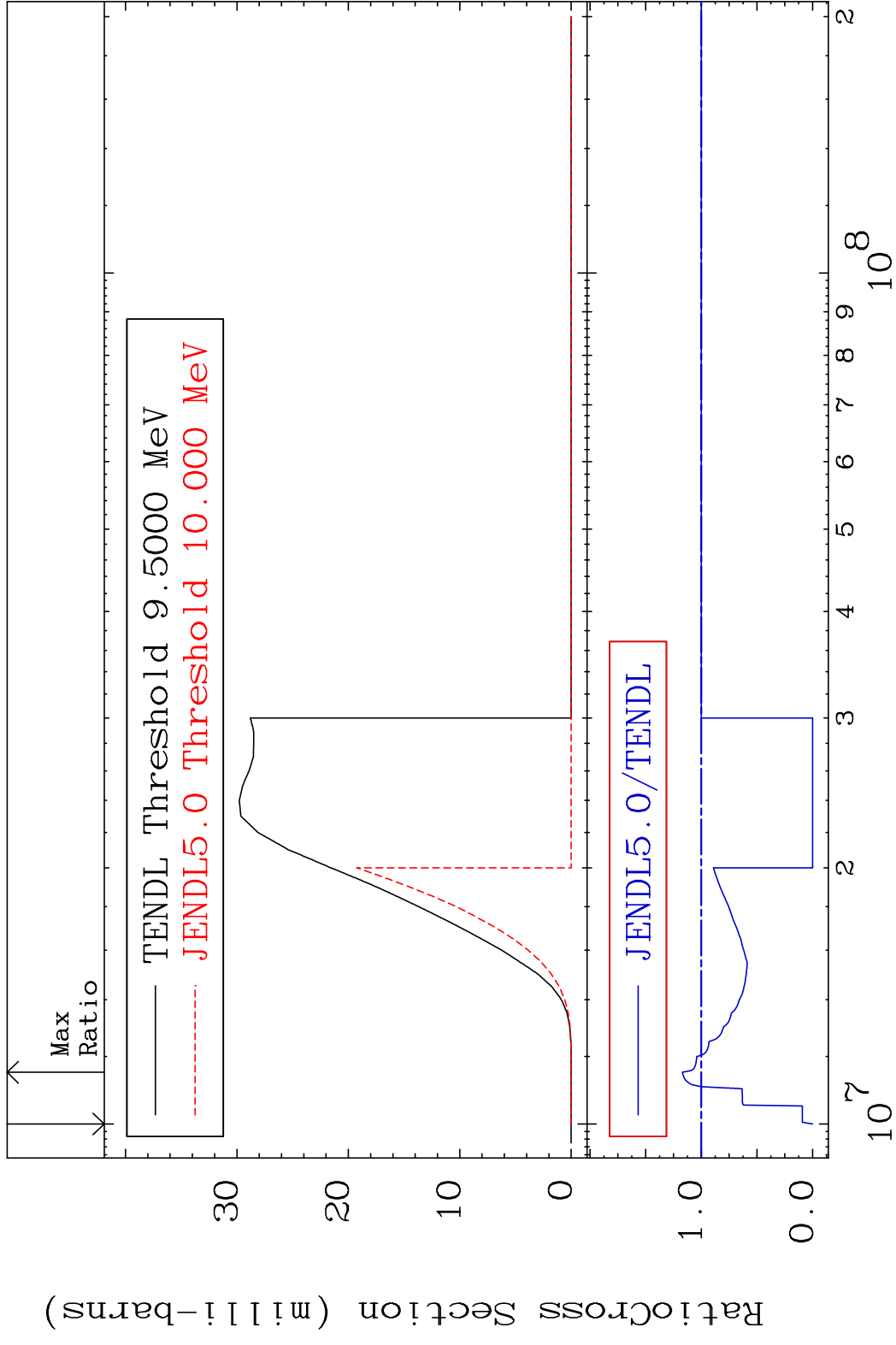


MAT 4028 (n, n') p:39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section 1800.0 dth 9999. %

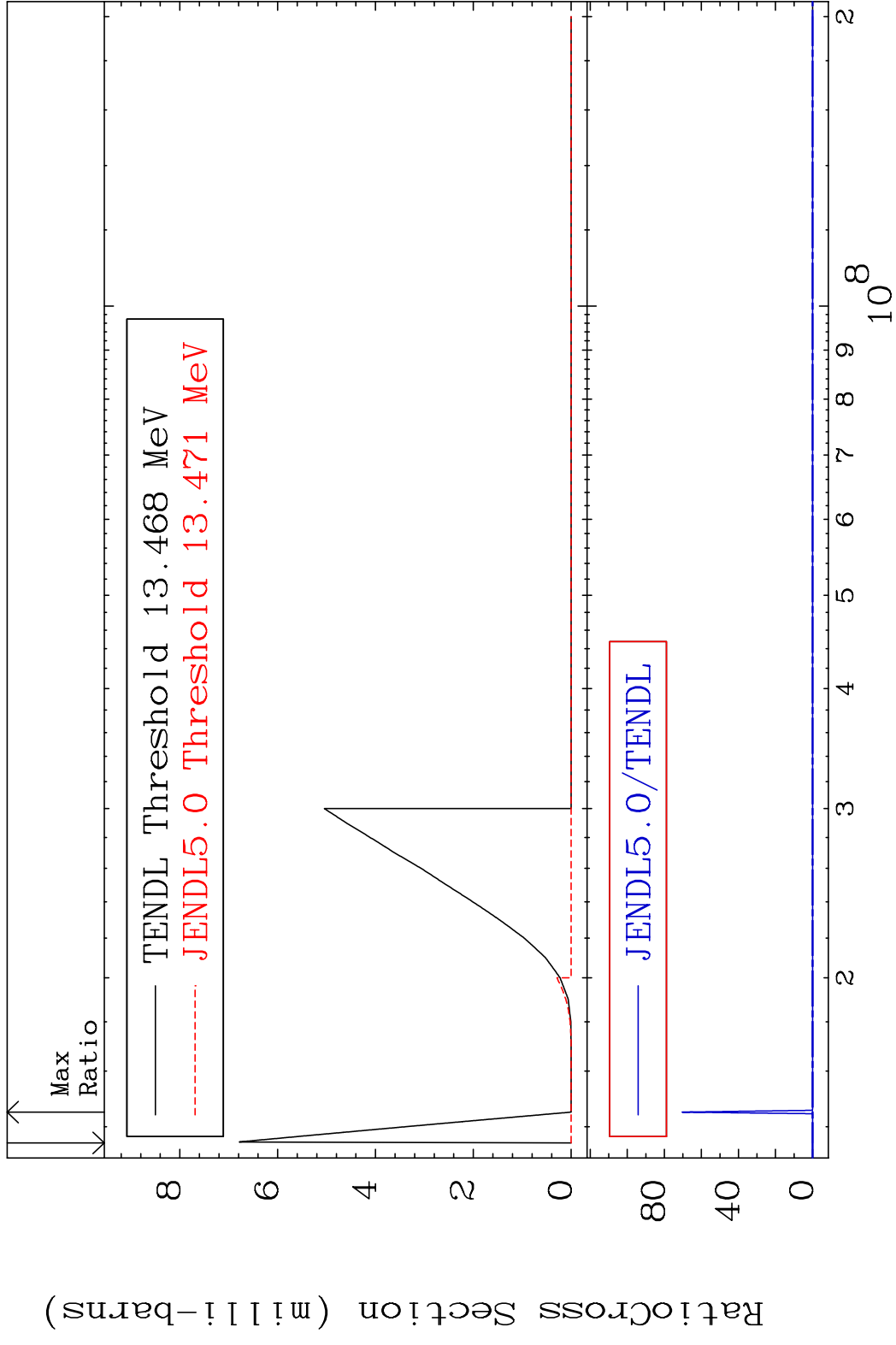


55 Incident Energy (eV) 40-Zr-91

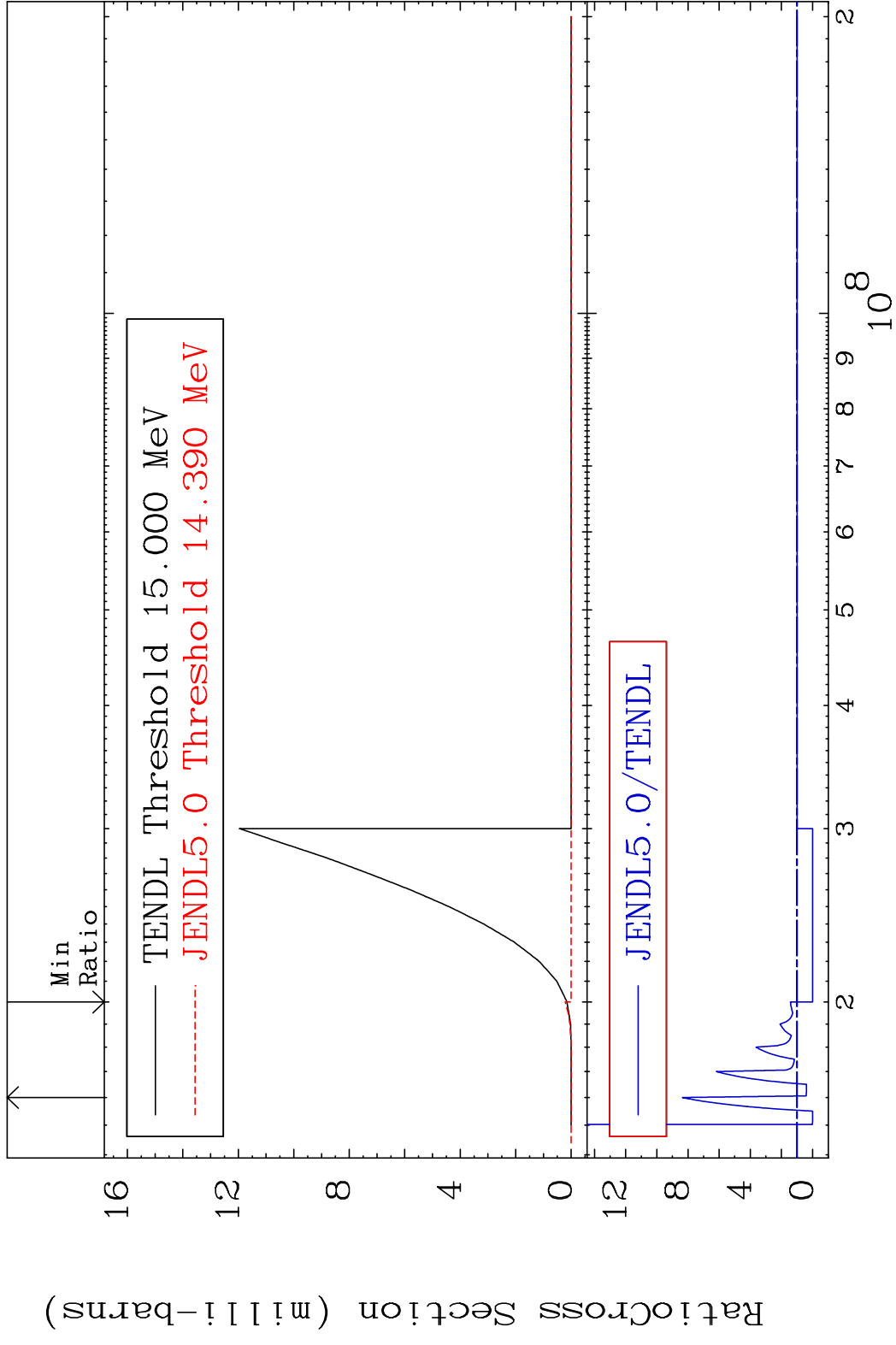
MAT 4028 (n, n') p:39-Y -90m2 40-Zr-91
 Radionuclide Production Cross Section 180.0 mb 17.02 %

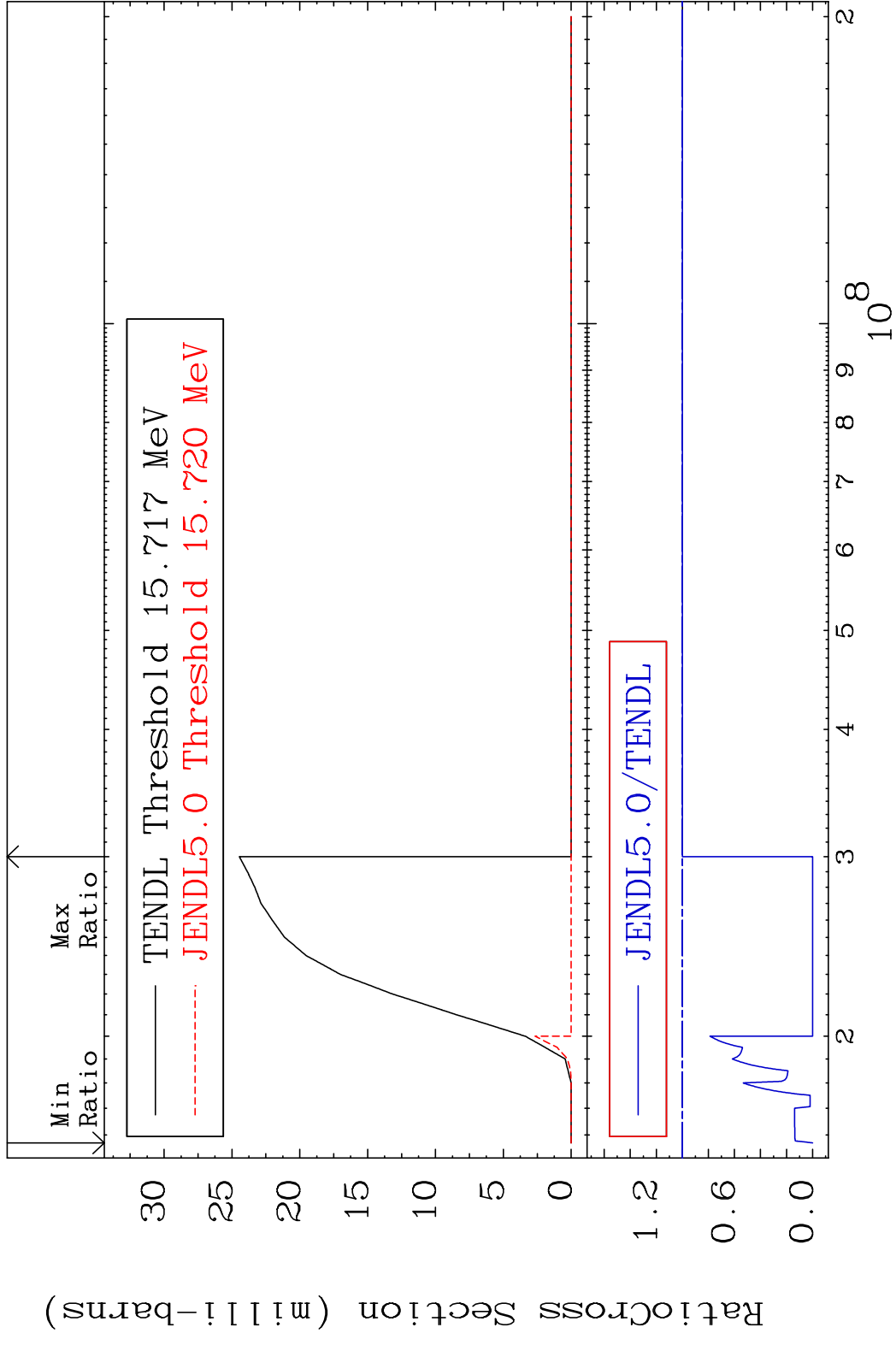


MAT 4028 (n, n') d:39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %

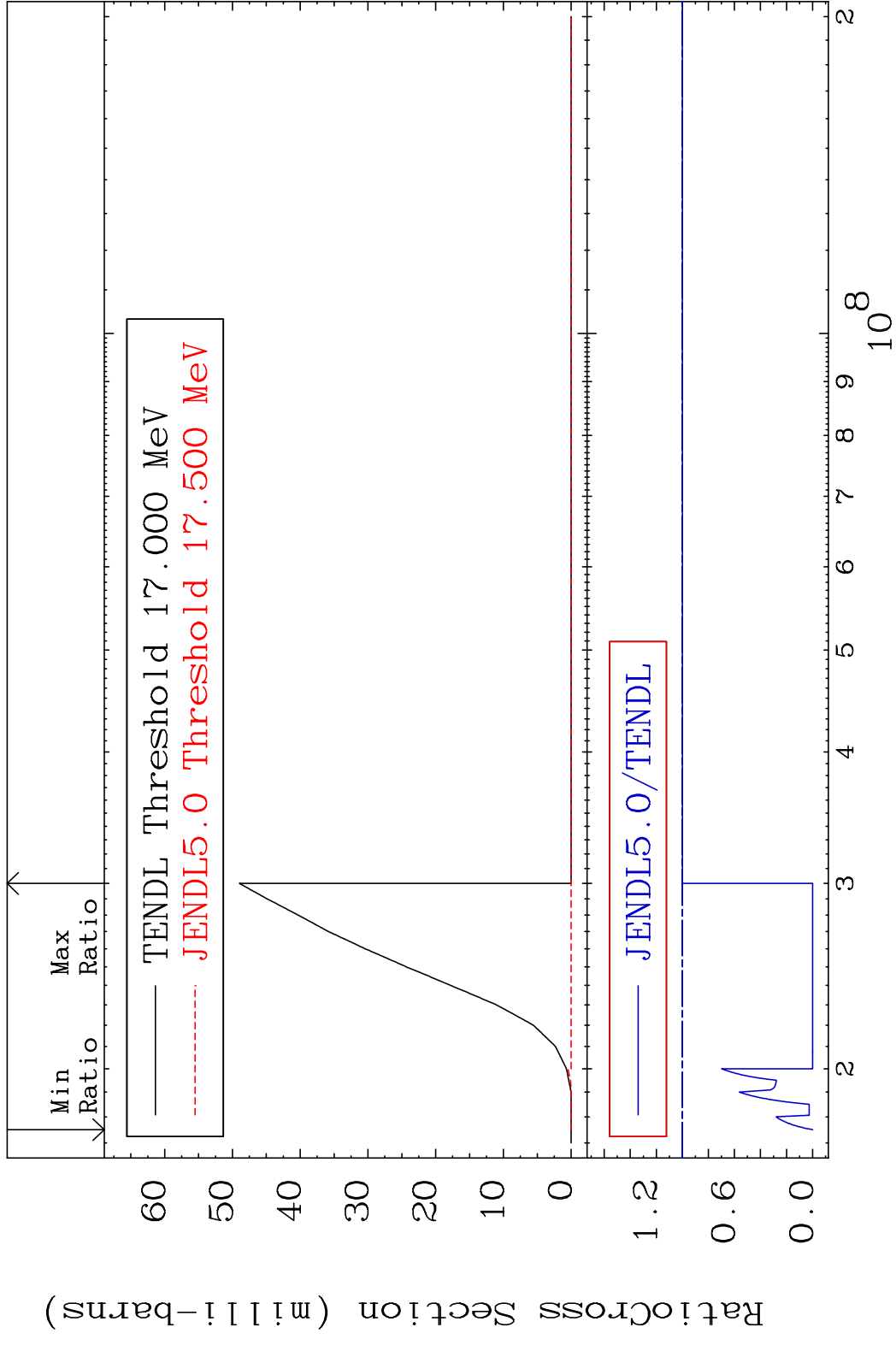


MAT 4028 (n, n') d:39-Y -89m1 40-Zr-91
 Radionuclide Production Cross Section 180.0 dno 736.2 %

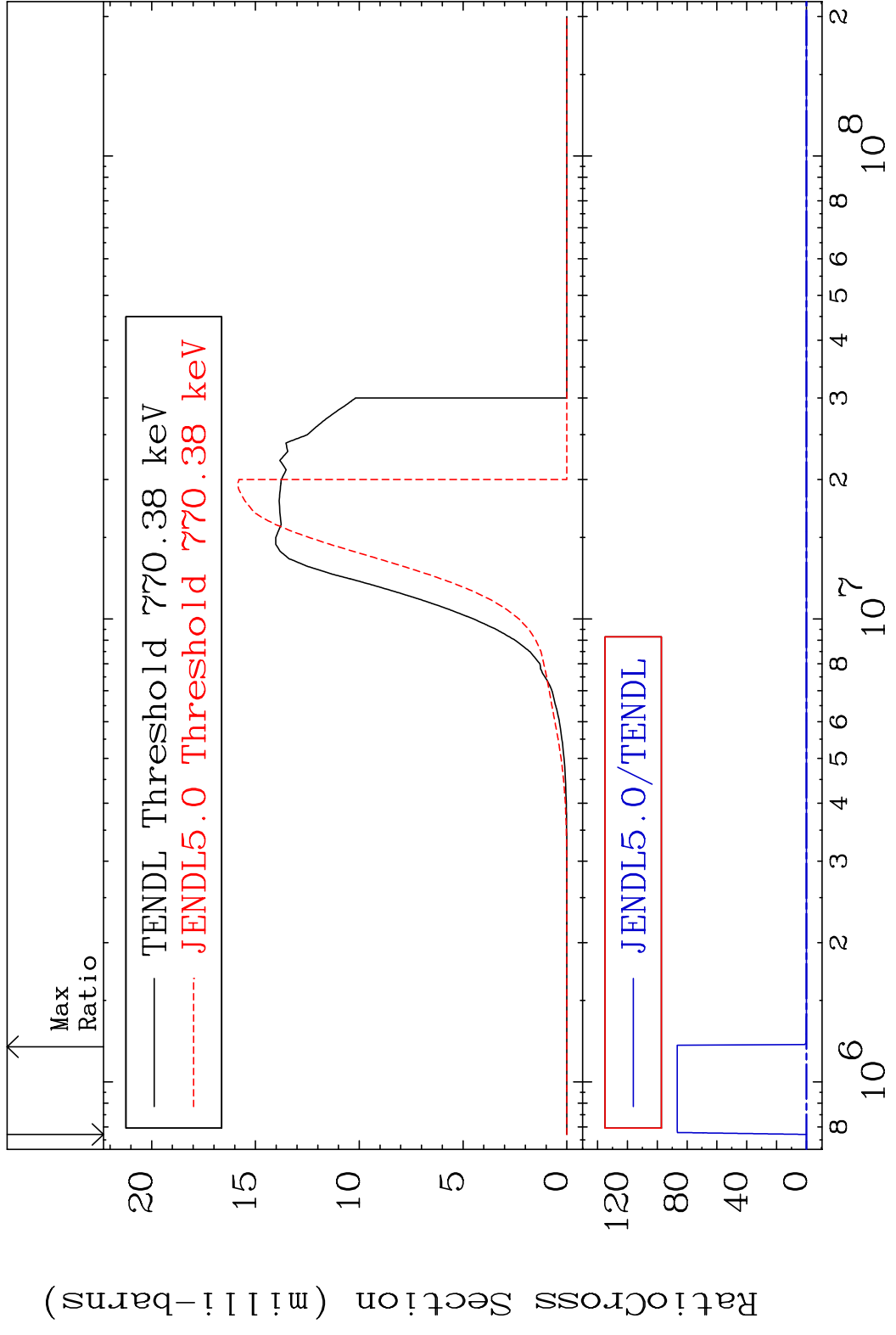




MAT 4028 (n,2n) p:39-Y -89m1 40-Zr-91
 Radionuclide Production Cross Section Ratio 0.000 %

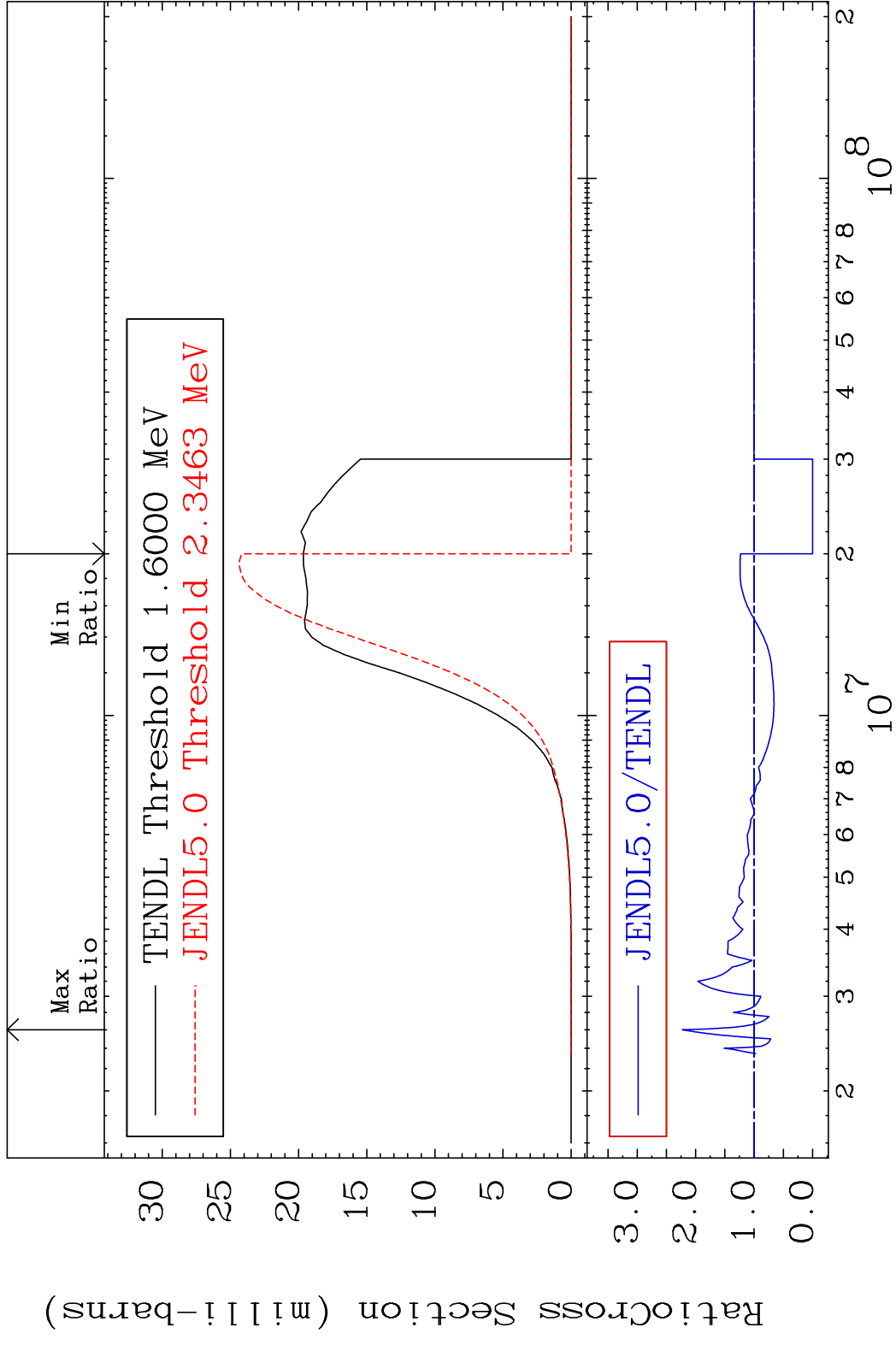


MAT 4028 (n,p):39-Y -91g 40-Zr-91
 Radionuclide Production Cross Section 100.00 to 9999.00 %

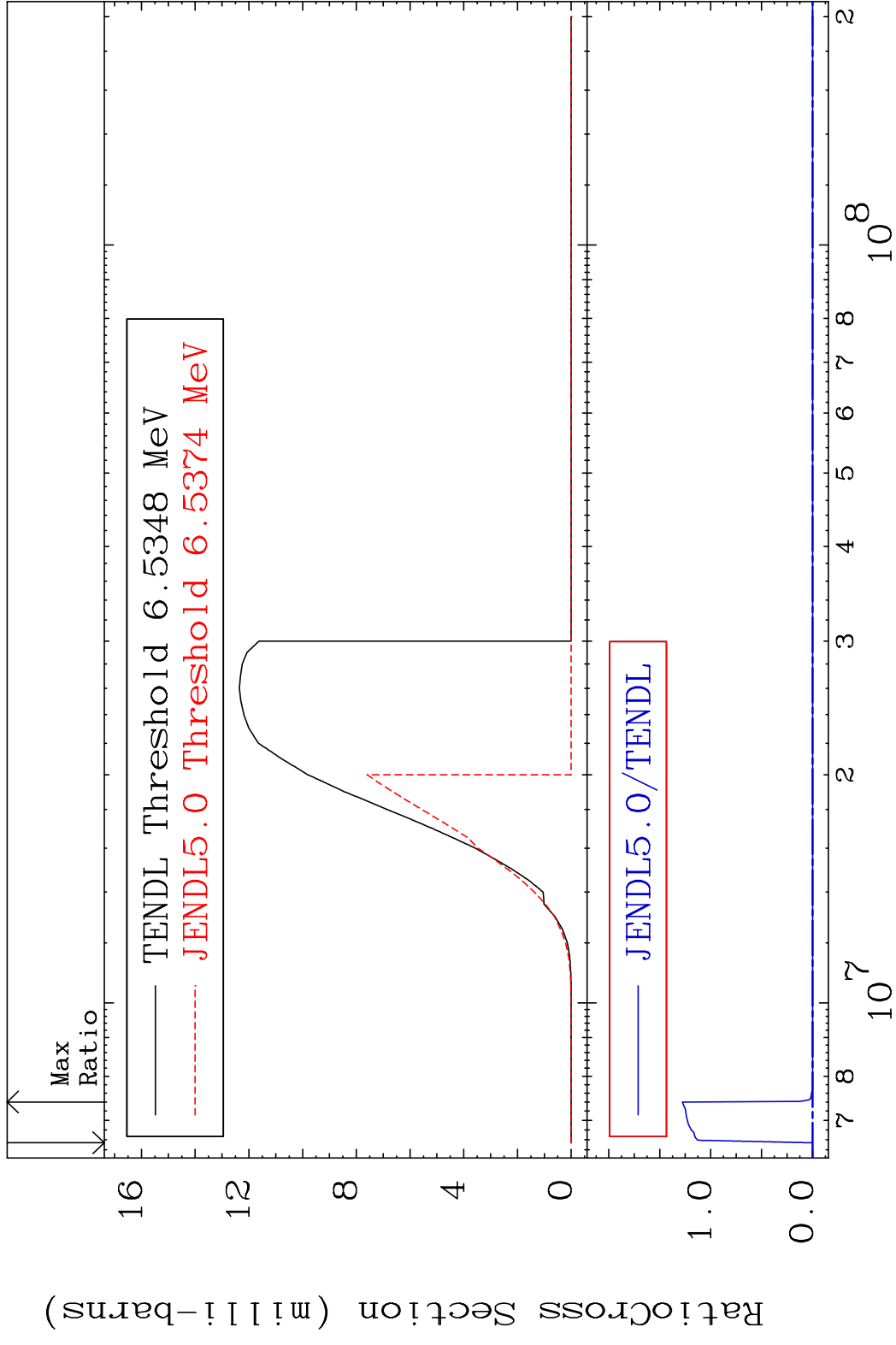


61 Incident Energy (eV) 40-Zr-91

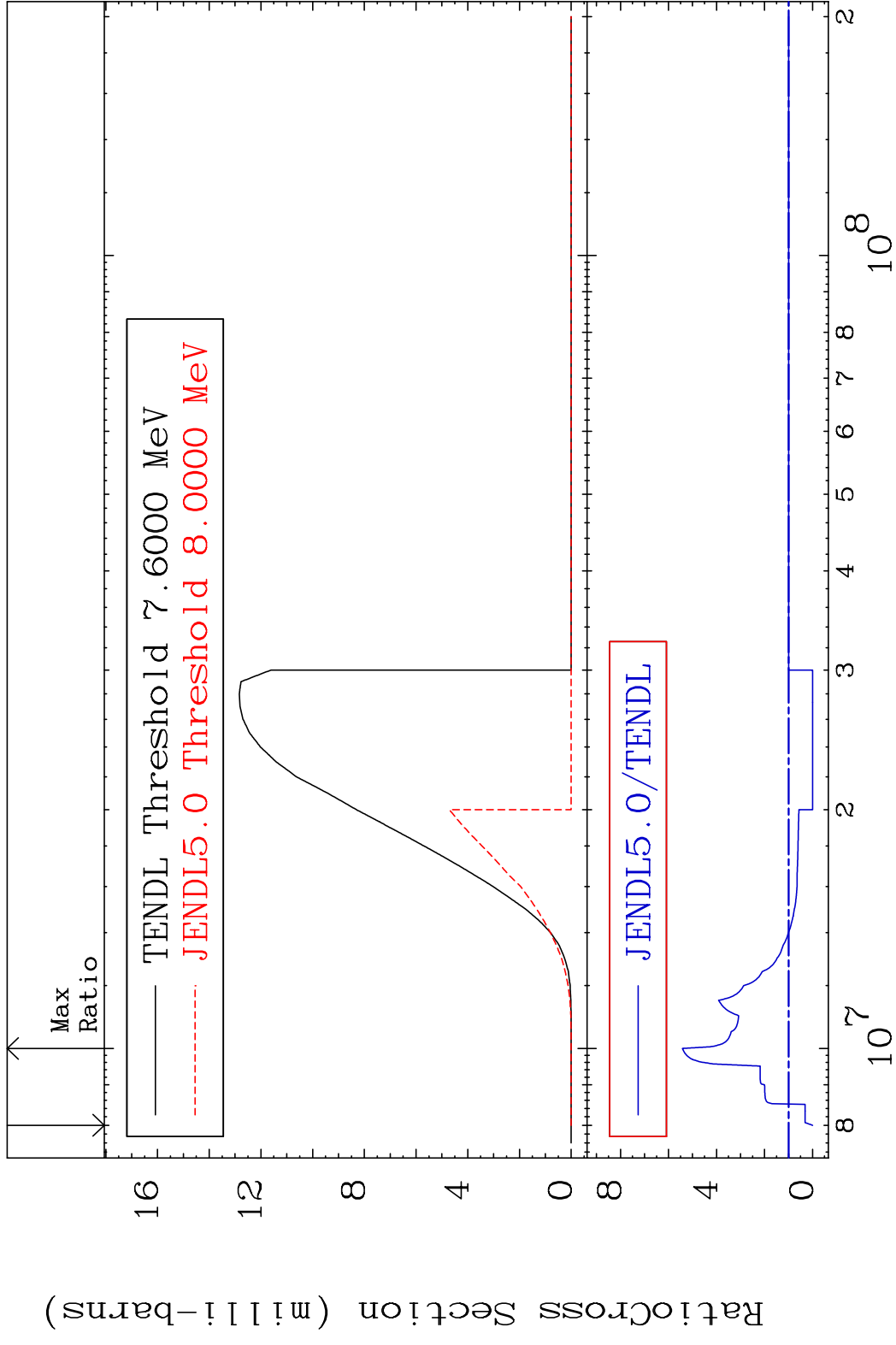
MAT 4028 (n,p):39-Y -91m1 40-Zr-91
 Radionuclide Production Cross Section 180.0 mb 122.8 %



MAT 4028 (n,d):39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %

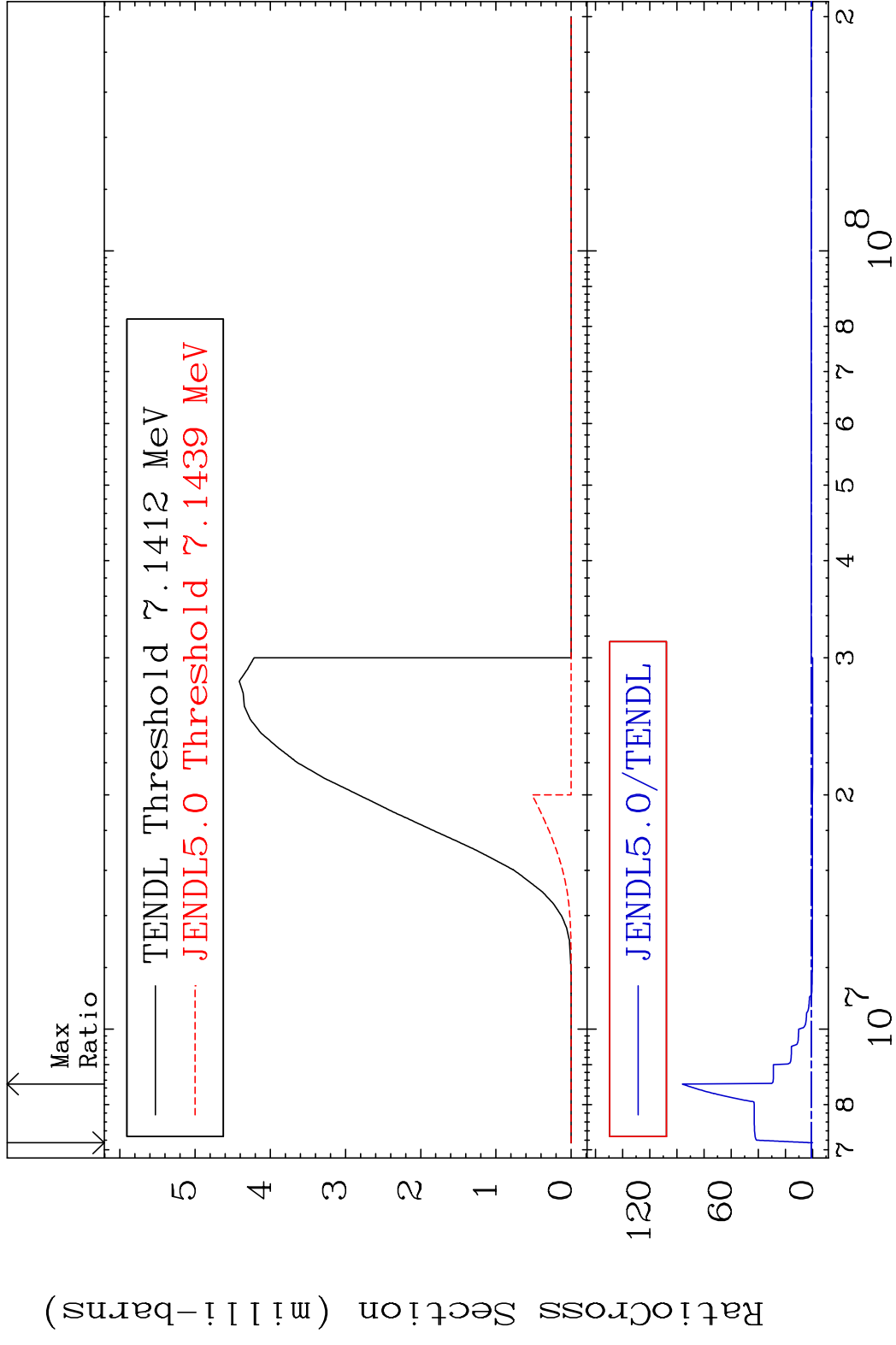


MAT 4028 (n,d):39-Y -90m2 40-Zr-91
 Radionuclide Production Cross Section 180.0 dth 442.4 %



64 Incident Energy (eV) 40-Zr-91

MAT 4028 (n, t):39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section Ratio 9494. %



65 40-Zr-91

