

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

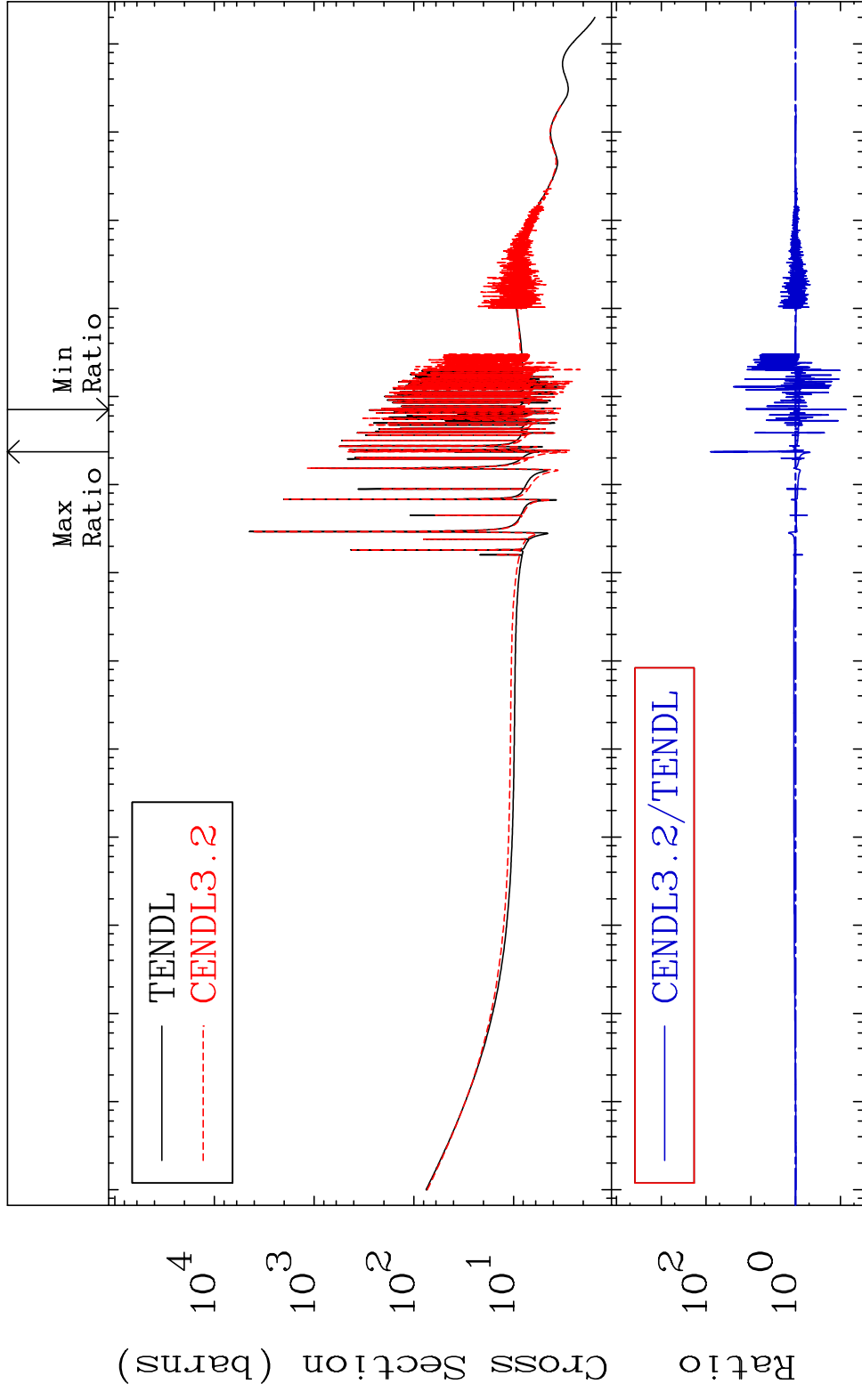
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E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4028

Total Cross Section
40-Zr-91
-92.62 To 7766. %

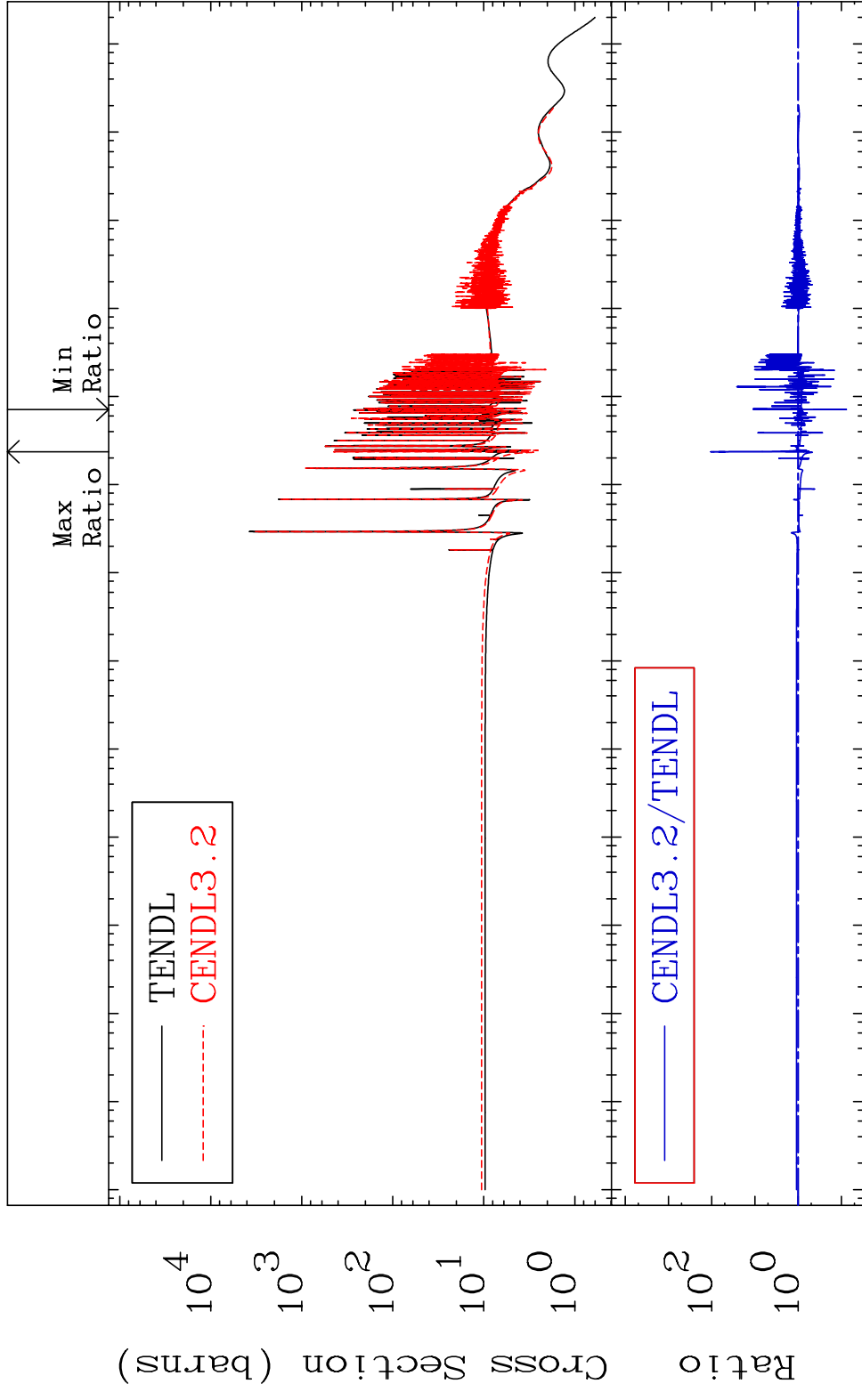


Incident Energy (eV) 40-Zr-91

1

MAT 4028

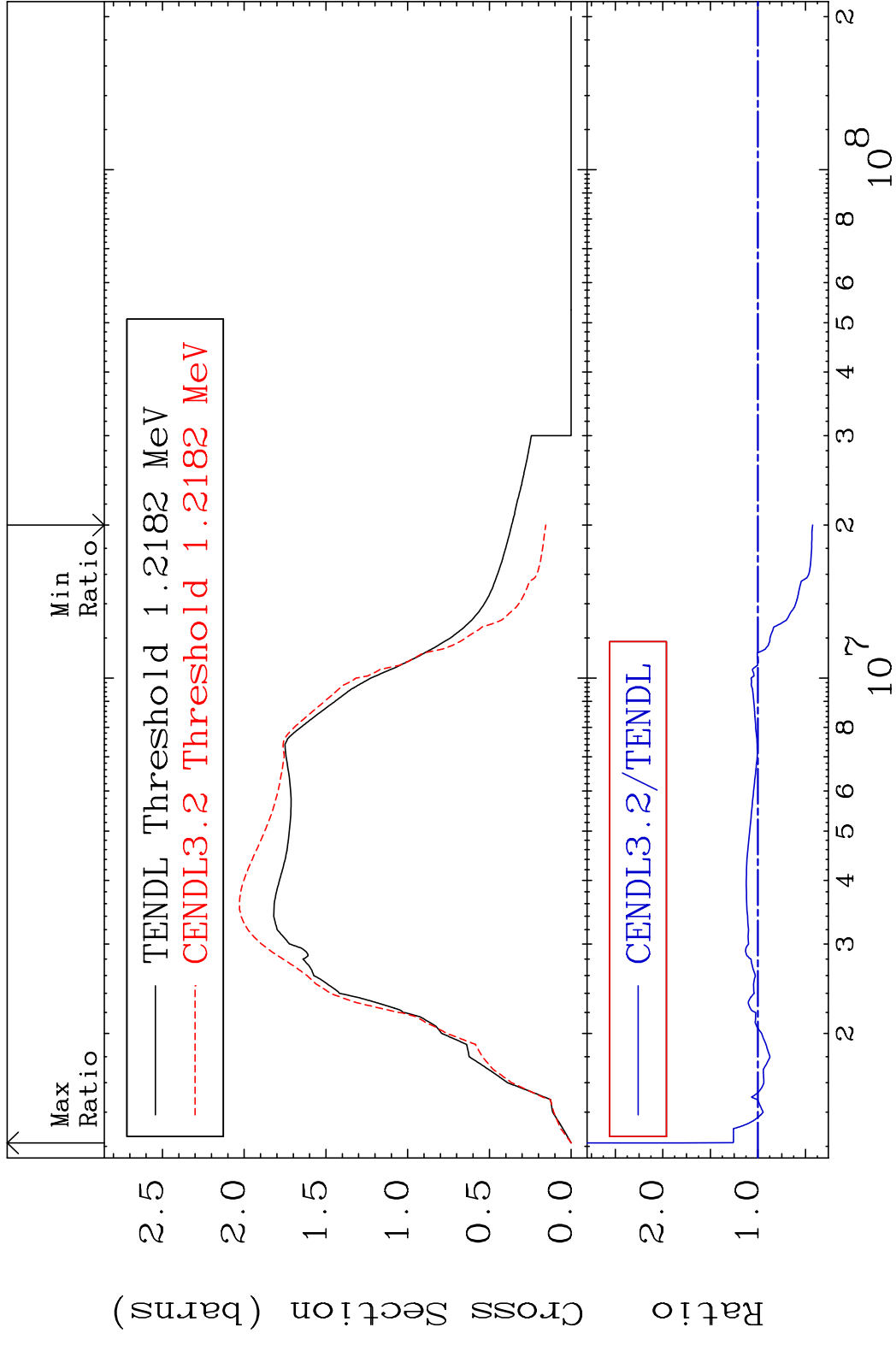
Elastic Cross Section -92.31 To 9999. % 40-Zr-91



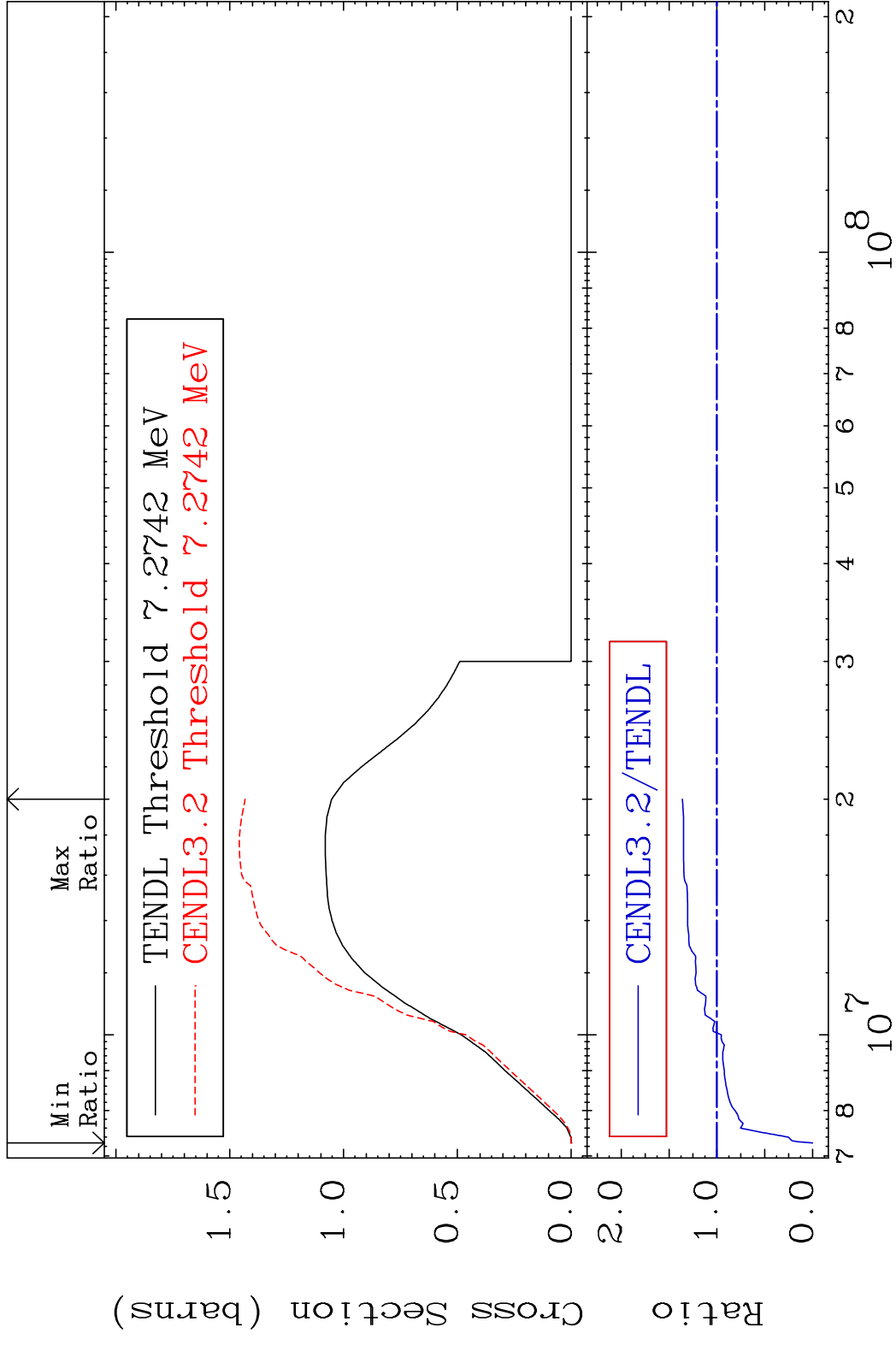
2

Incident Energy (eV) 40-Zr-91

MAT 4028 Inelastic Cross Section -57.43 To 79.45 % 40-Zr-91



MAT 4028 (n,2n) 40-Zr-91
 Cross Section -100.0 To 36.10 %



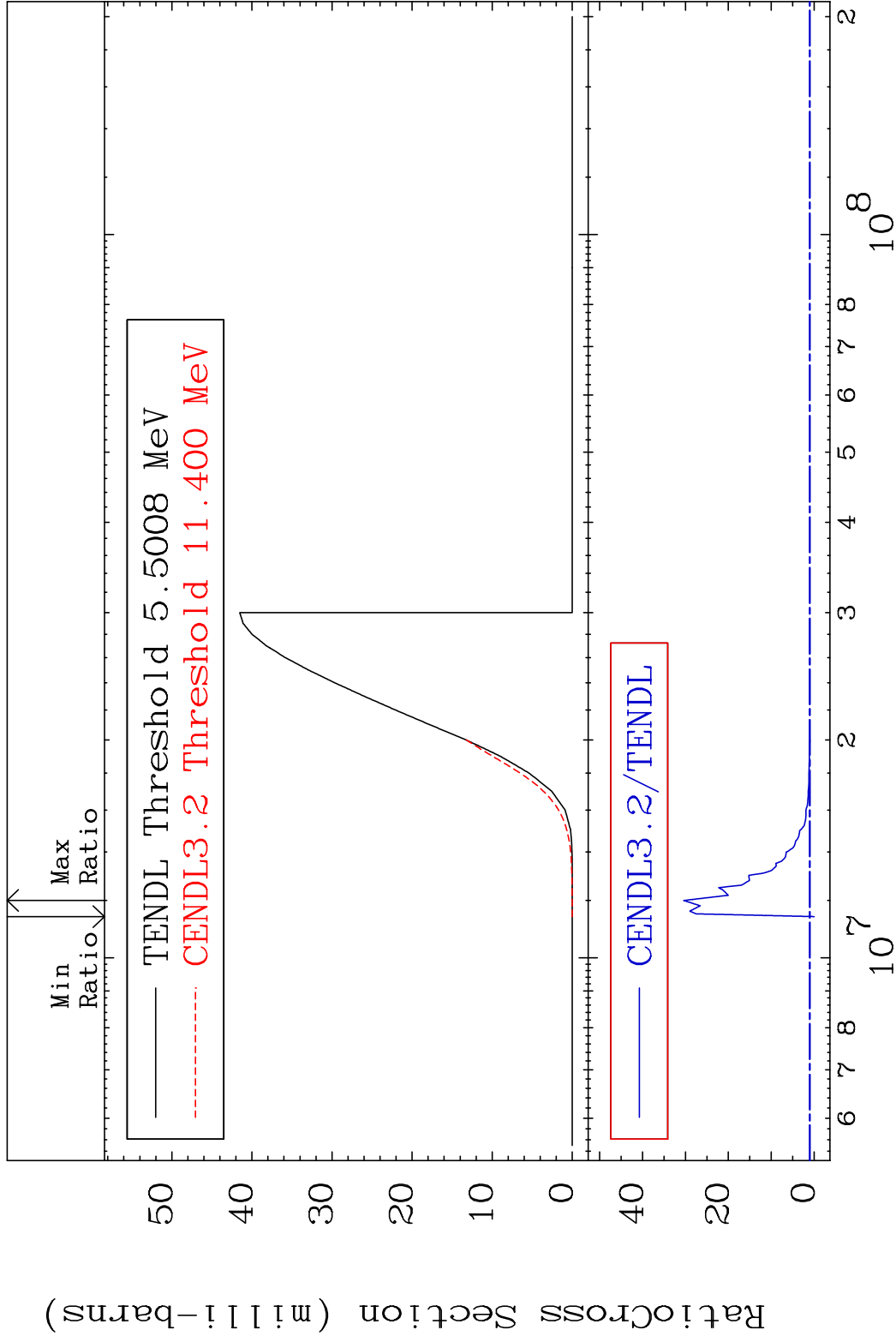
4 Incident Energy (eV) 40-Zr-91

MAT 4028

(n, n') α

40-Zr-91

Cross Section -100.0 To 2942. %



5

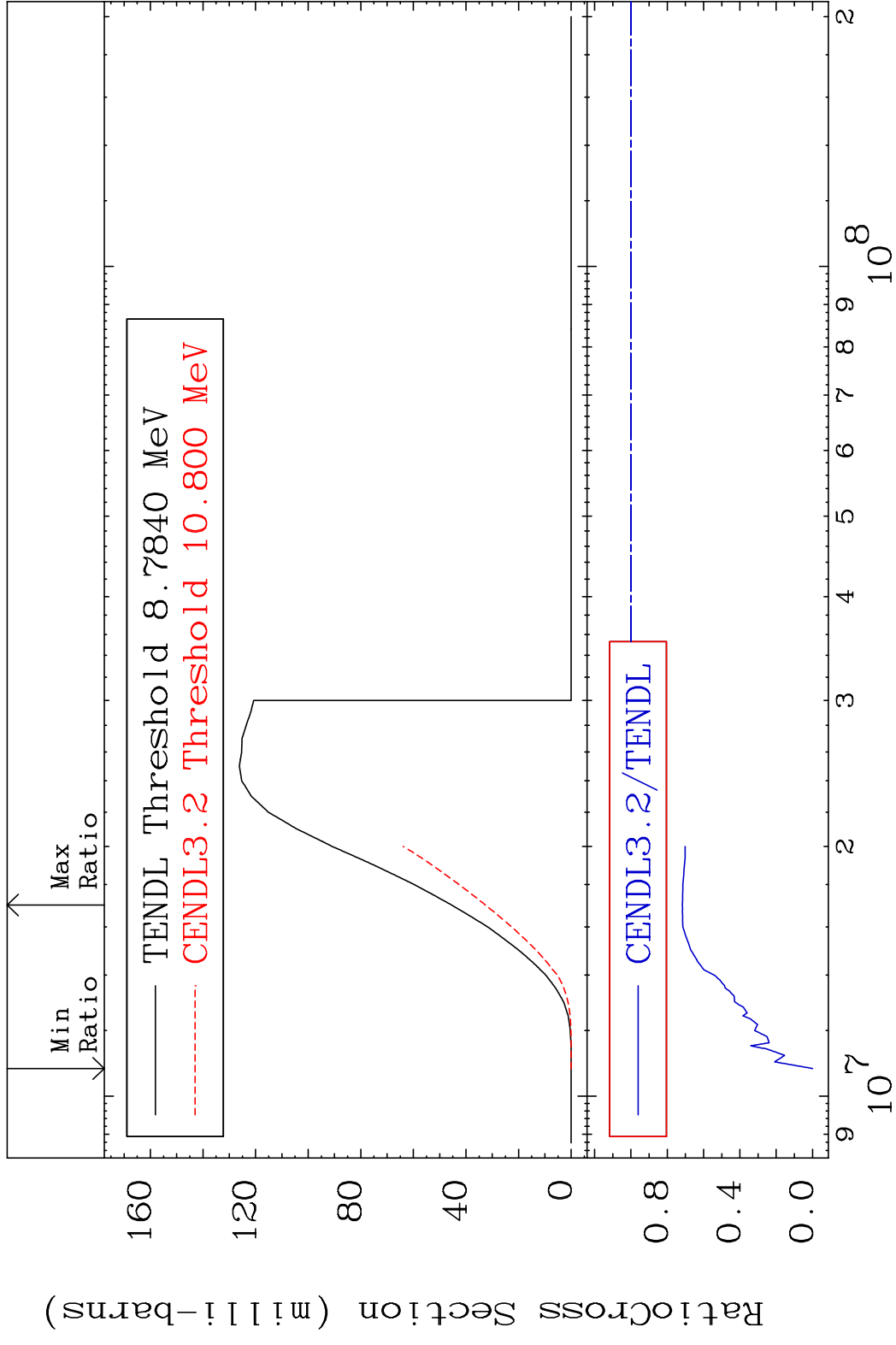
Incident Energy (eV)

40-Zr-91

MAT 4028

(n, n') p 40-Zr-91

Cross Section -100.0 To -28.31%

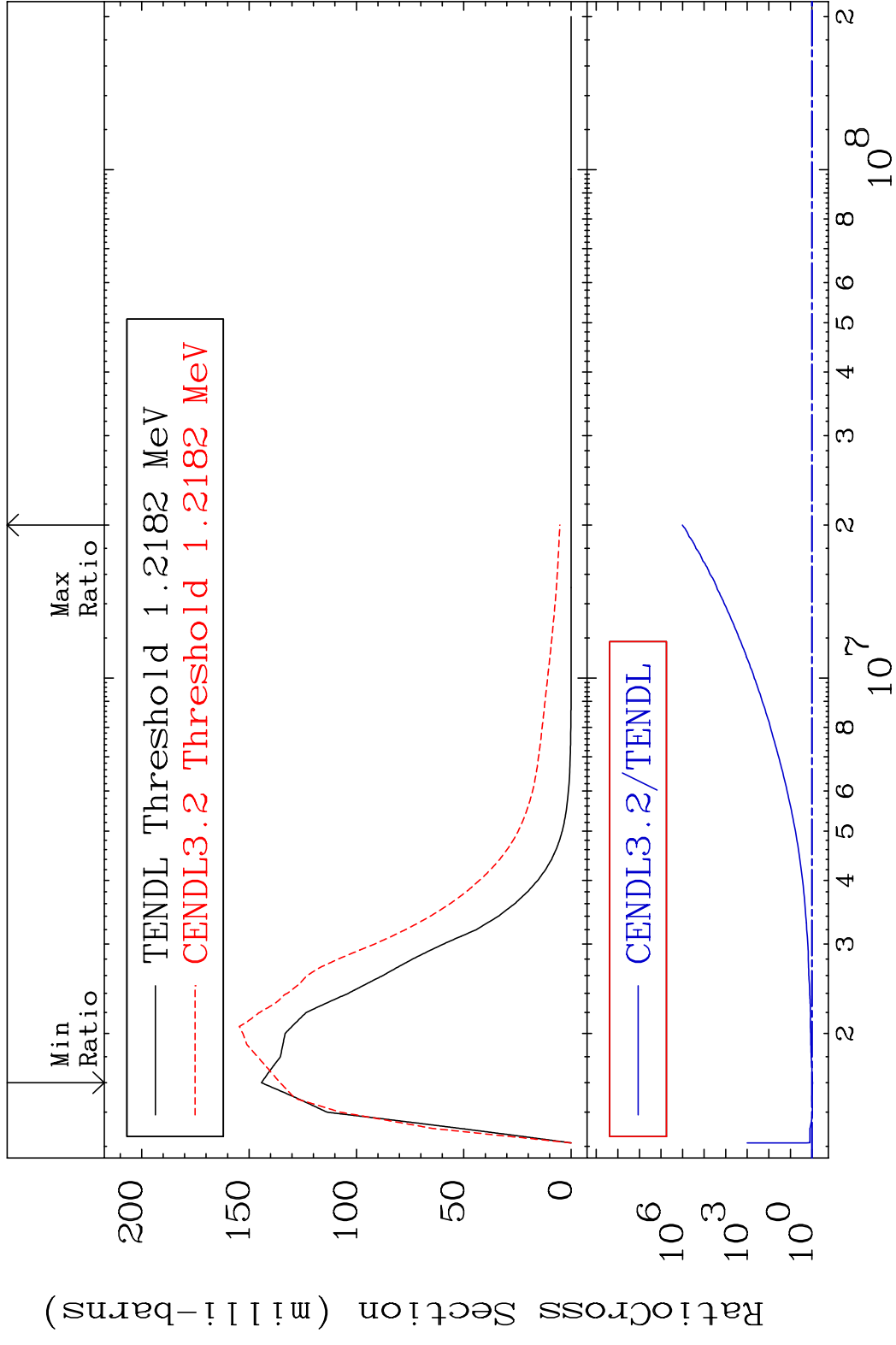


6

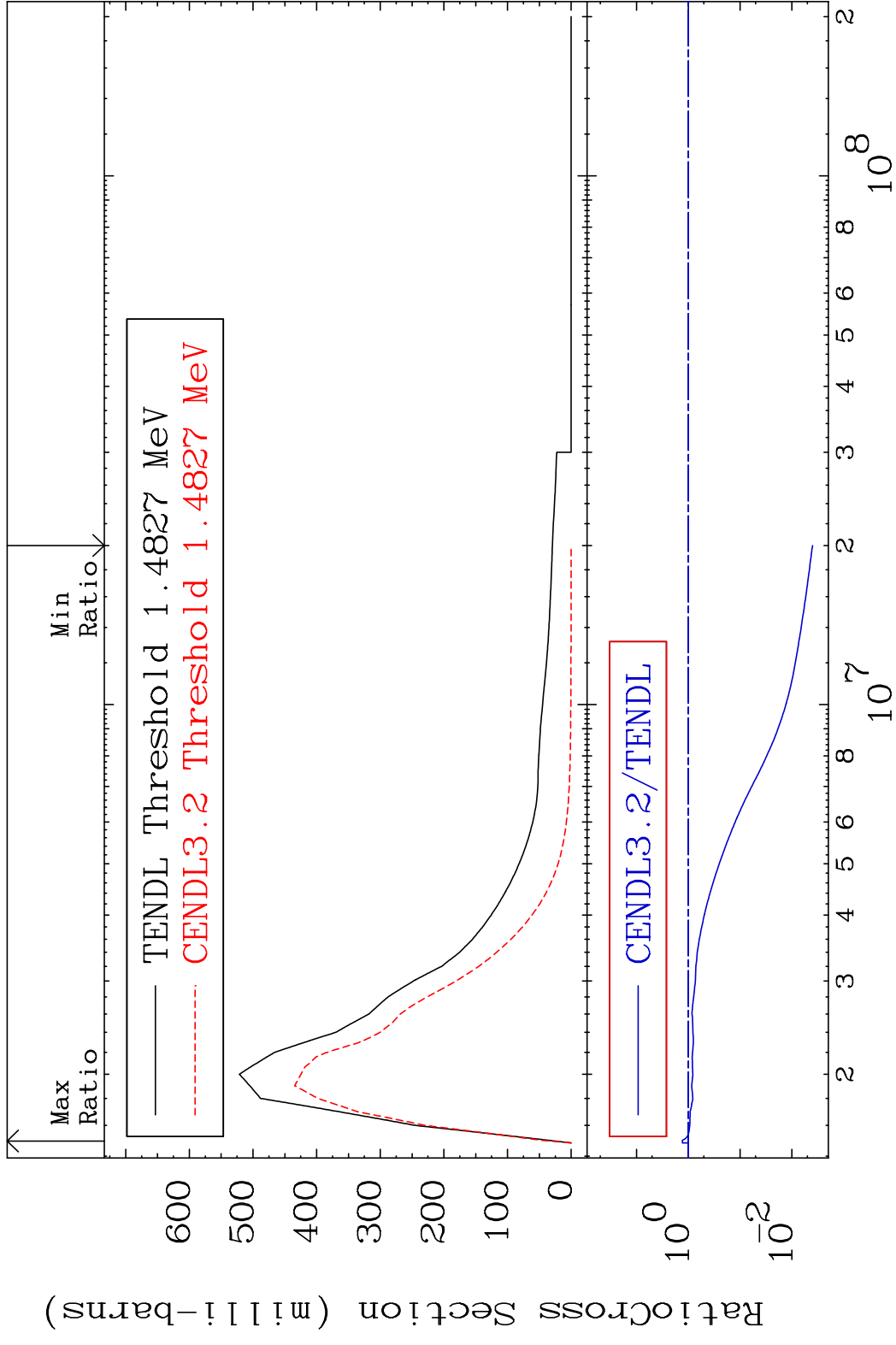
Incident Energy (eV)

40-Zr-91

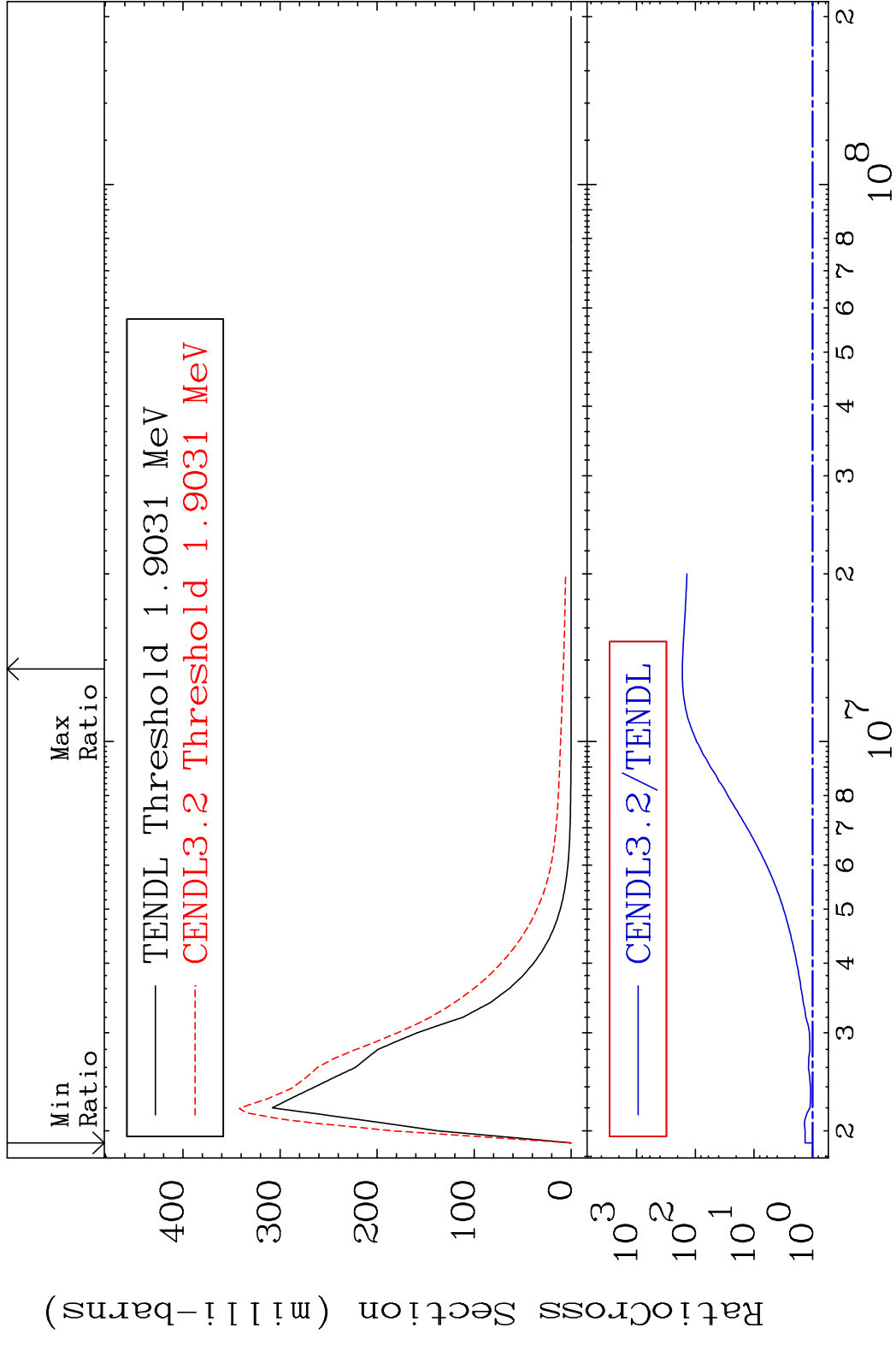
MAT 4028 MT= 51 (n, n') Level 40-Zr-91
 Cross Section -6.039 To 9999. %



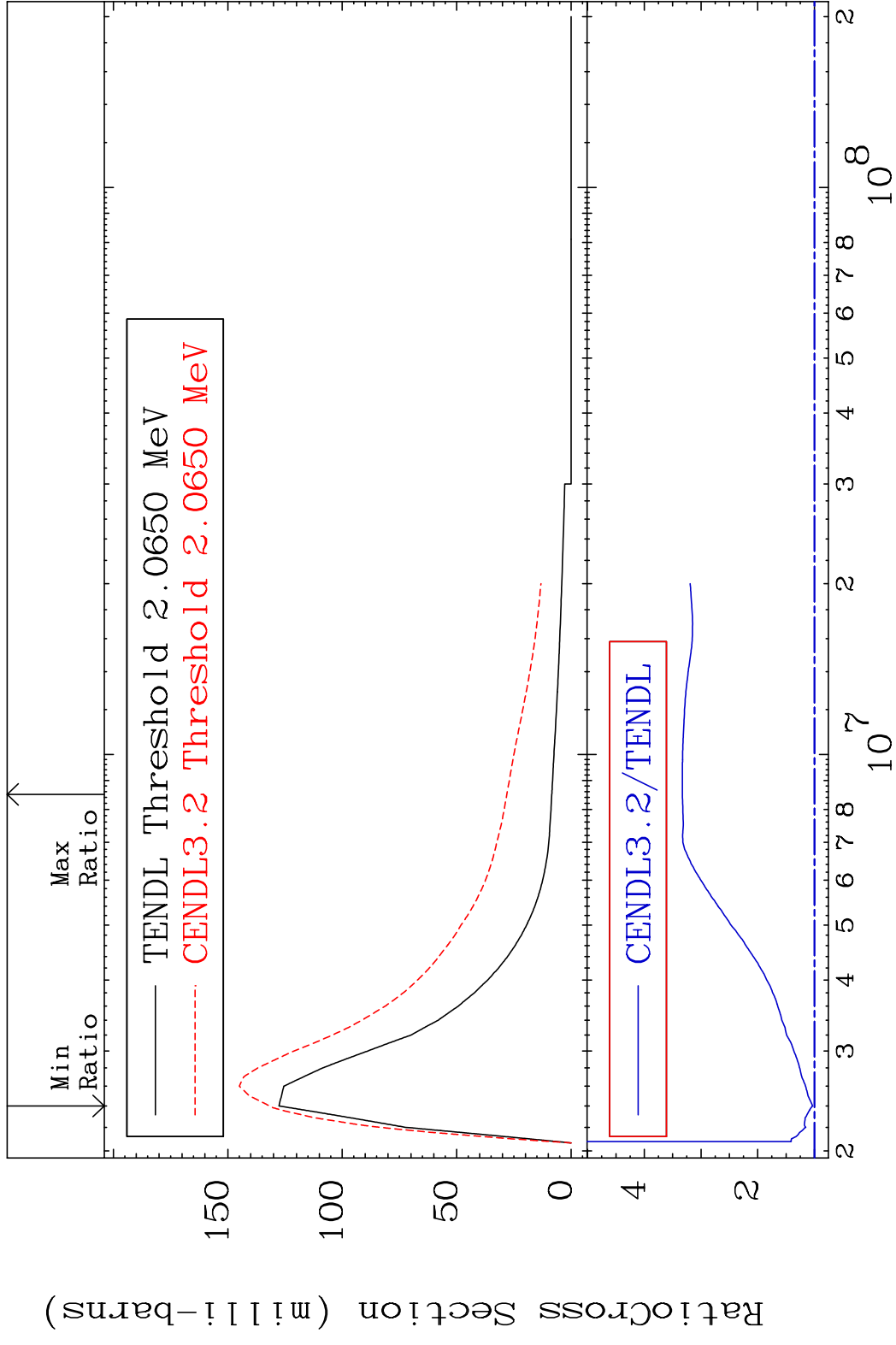
MAT 4028 MT= 52 (n, n') Level 40-Zr-91
 Cross Section -99.60 To 30.00 %



MAT 4028 MT= 53 (n, n') Level 40-Zr-91
 Cross Section 0.000 To 9999. %

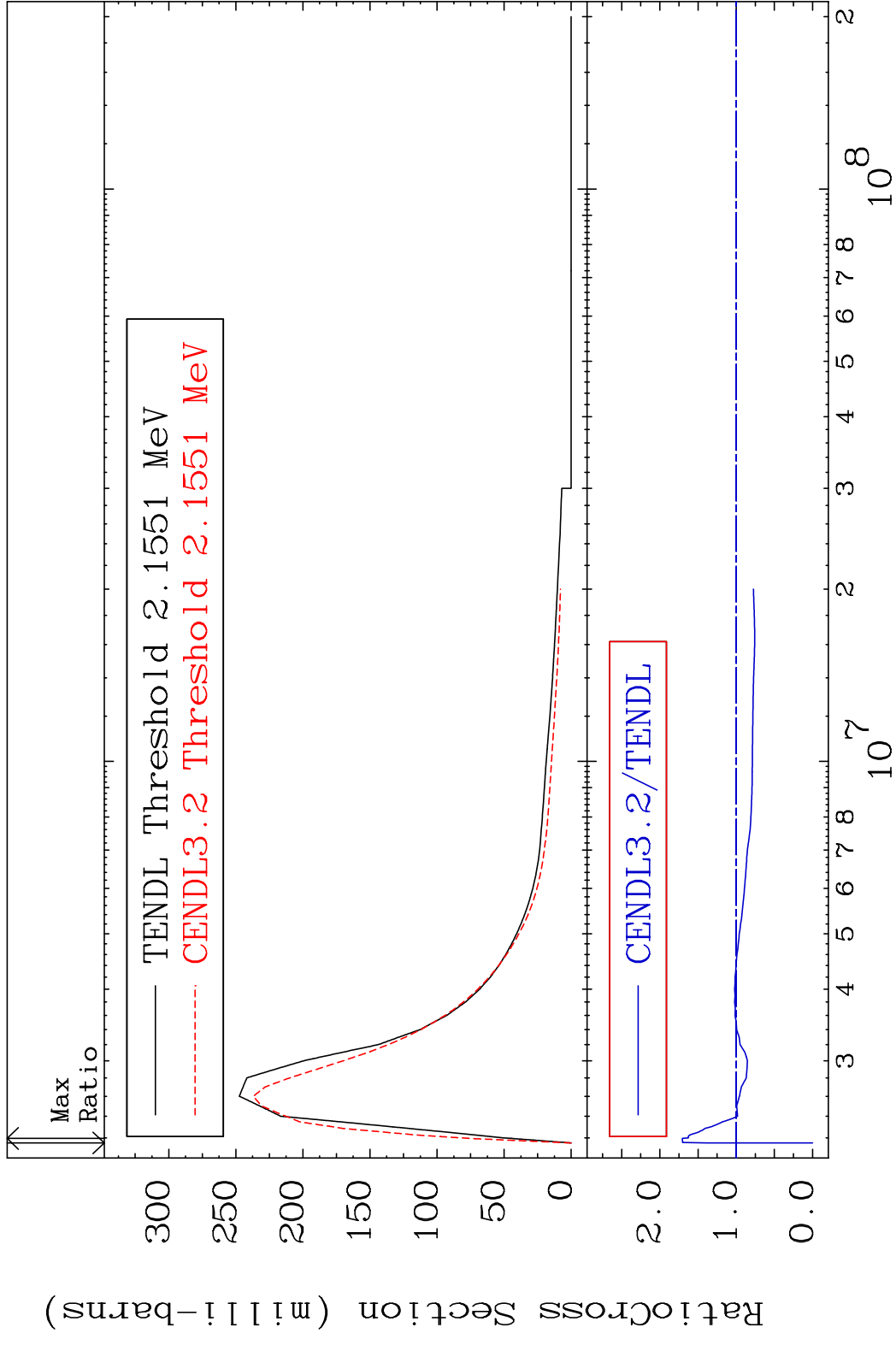


MAT 4028 MT= 54 (n, n') Level 40-Zr-91
 Cross Section 3.272 To 232.9 %

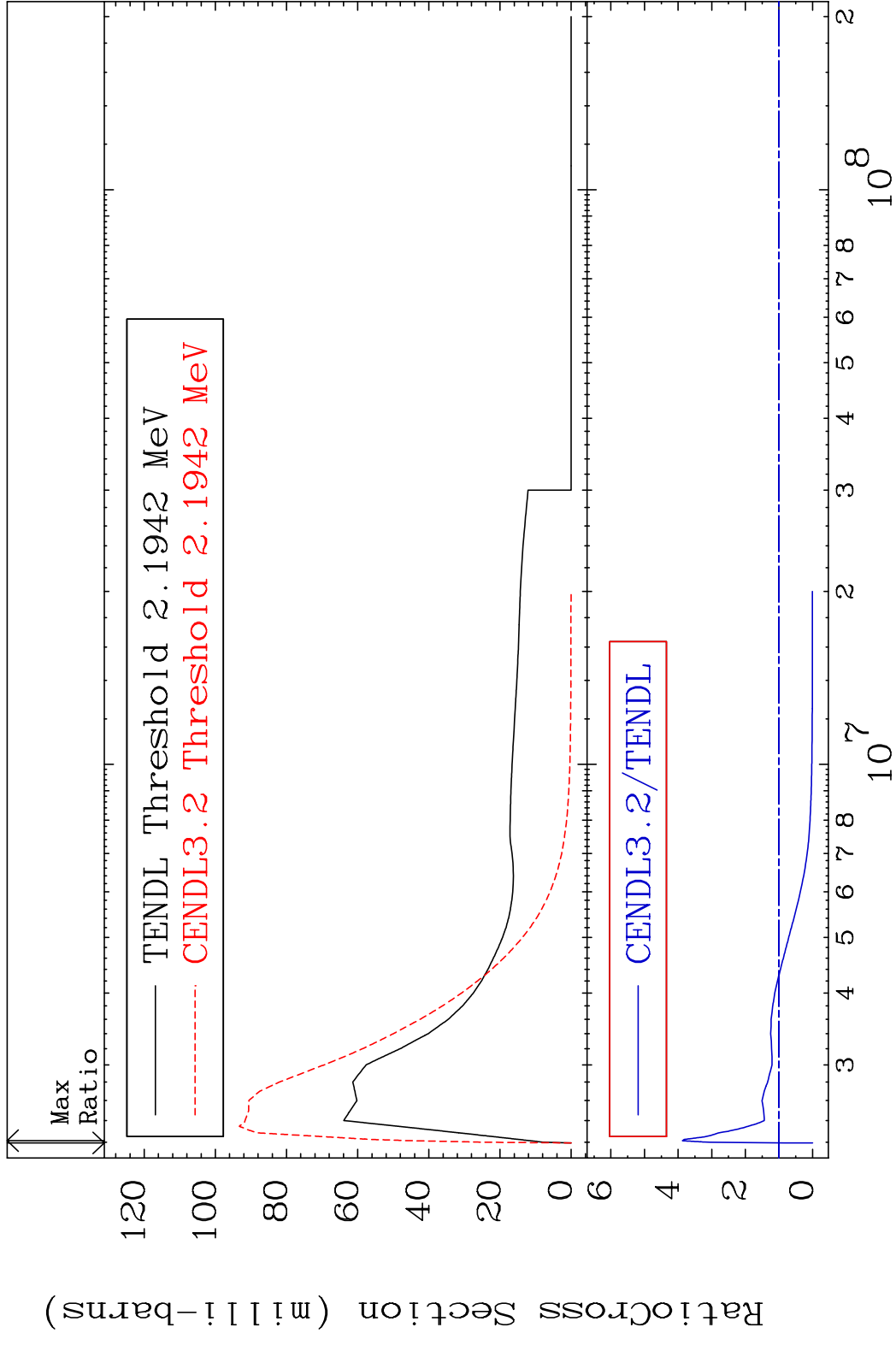


10 10 2 3 4 5 6 7 8 10⁷ 10⁸ 2

MAT 4028 MT= 55 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 70.53 %

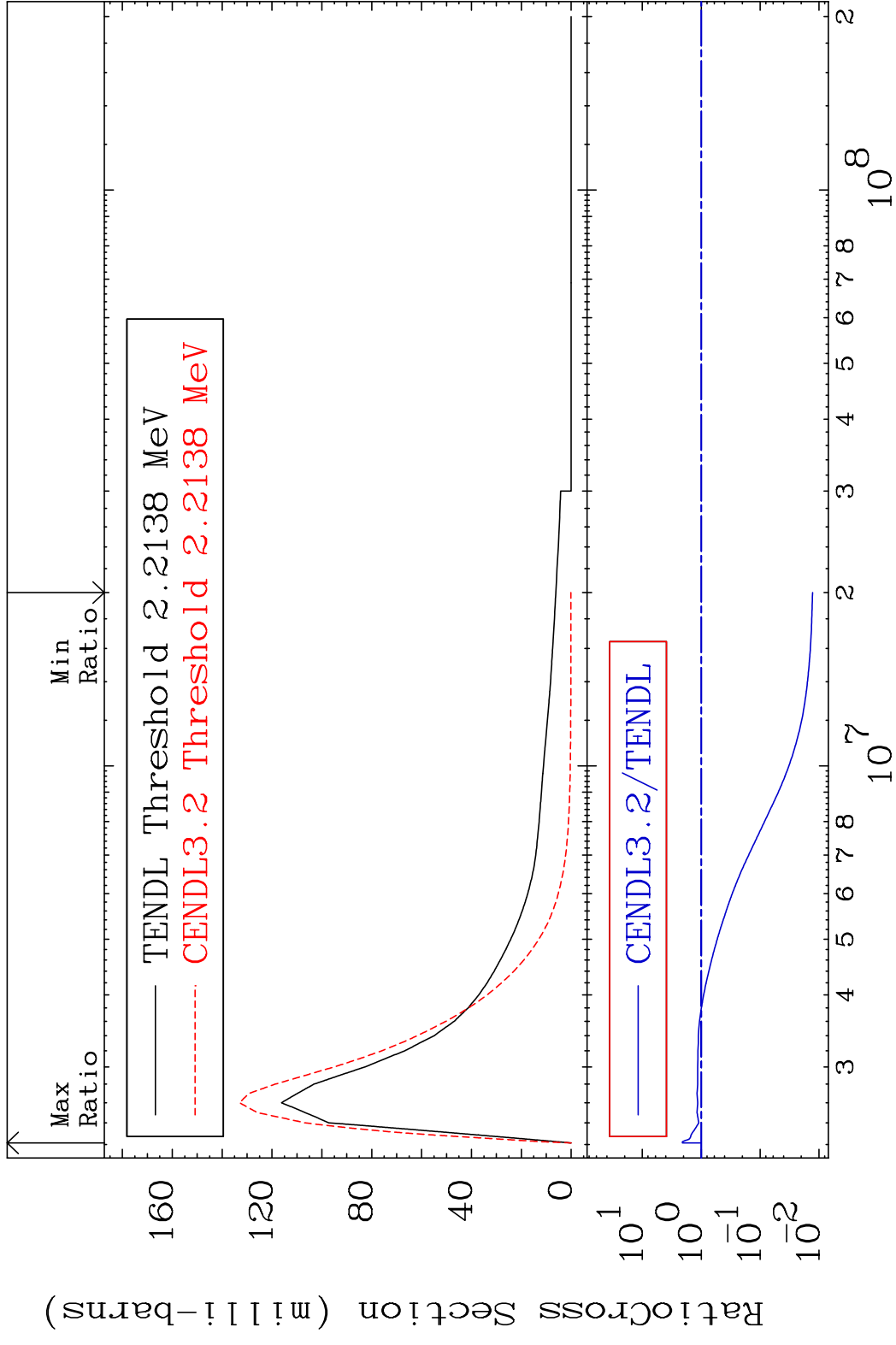


MAT 4028 MT= 56 (n,n') Level 40-Zr-91
 Cross Section -100.0 To 287.4 %

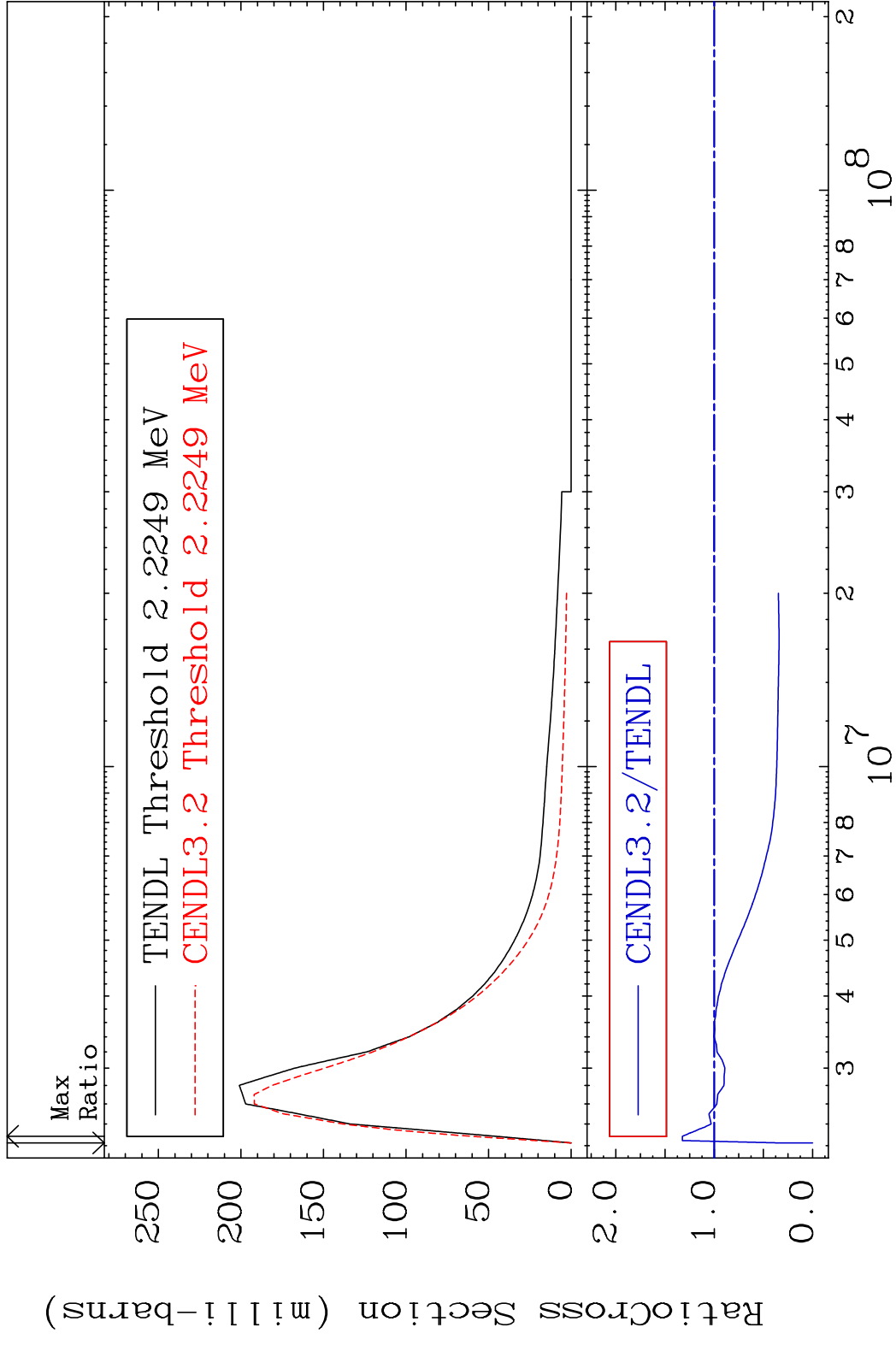


12 40-Zr-91

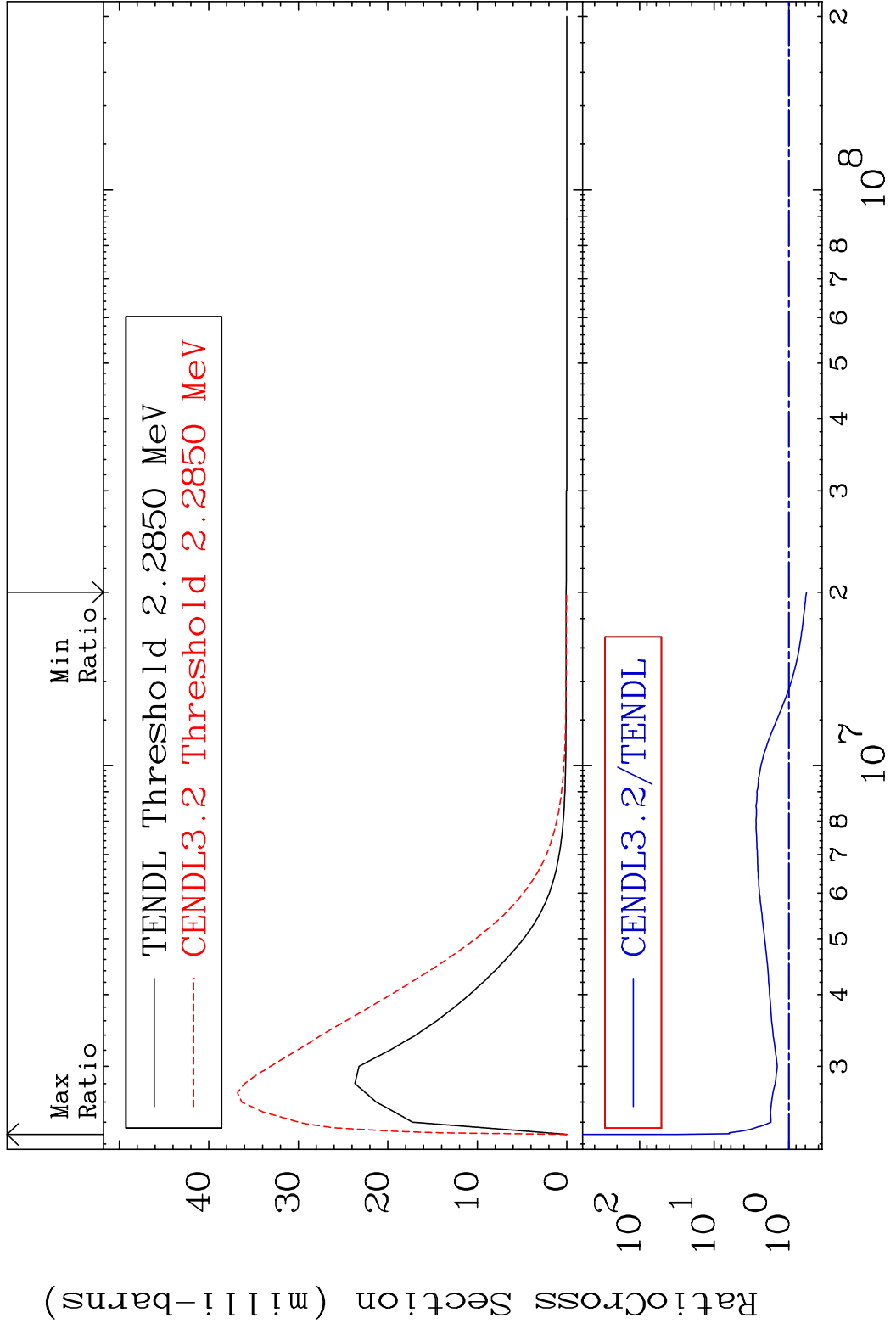
MAT 4028 MT= 57 (n, n') Level 40-Zr-91
 Cross Section -98.71 To 109.2 %



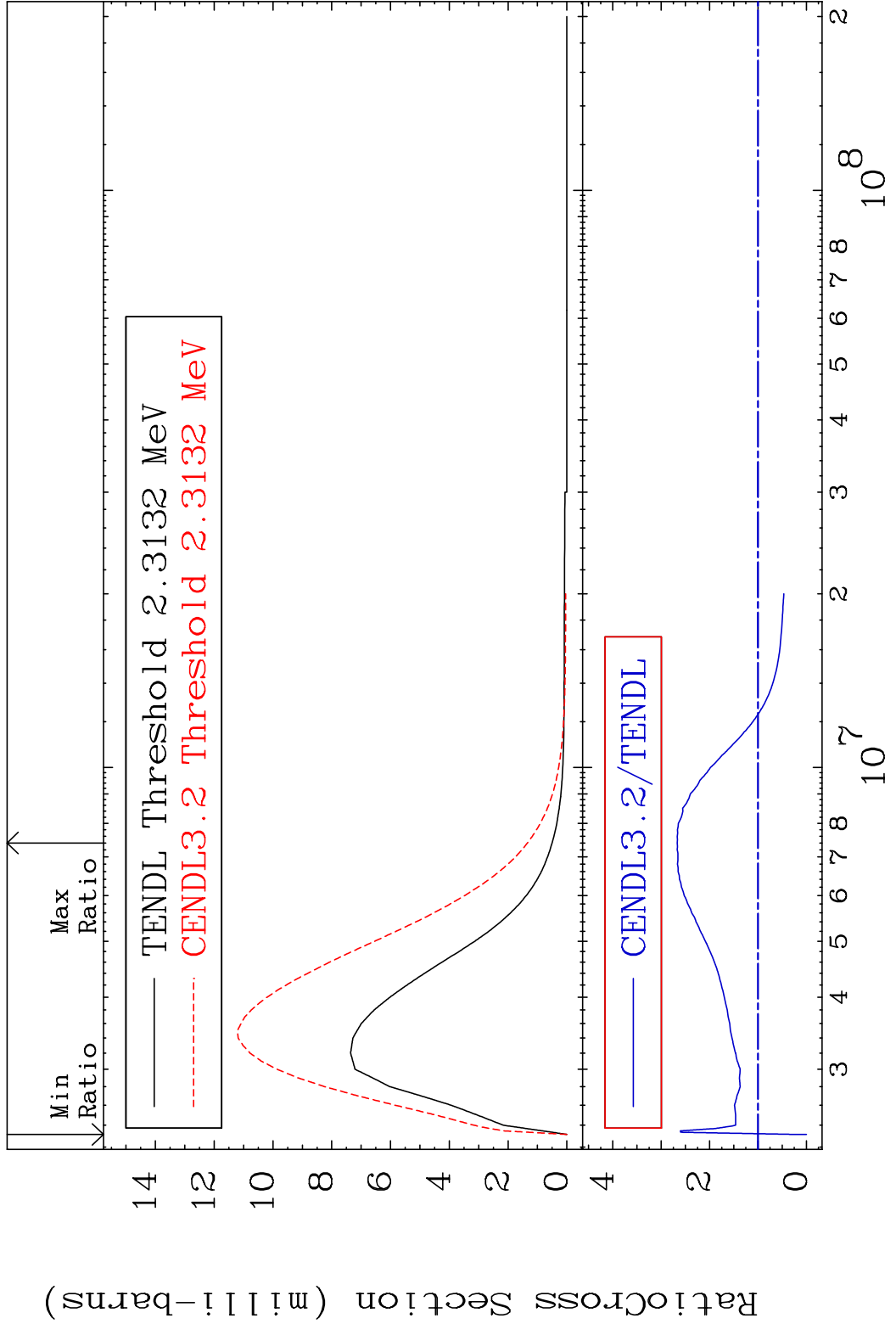
MAT 4028 MT= 58 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 32.39 %



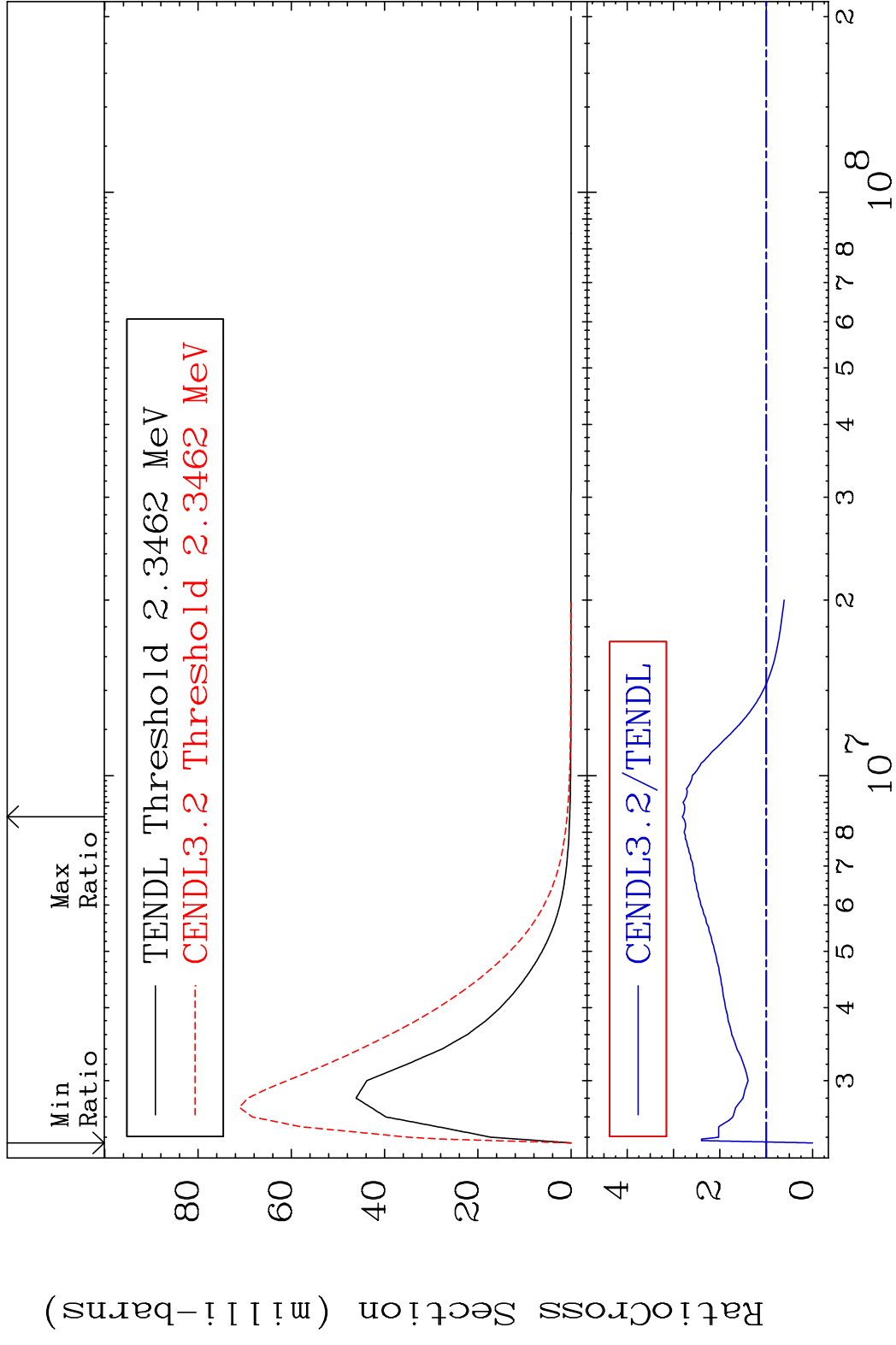
MAT 4028 MT= 59 (n, n') Level 40-Zr-91
 Cross Section -41.85 To 3035. %



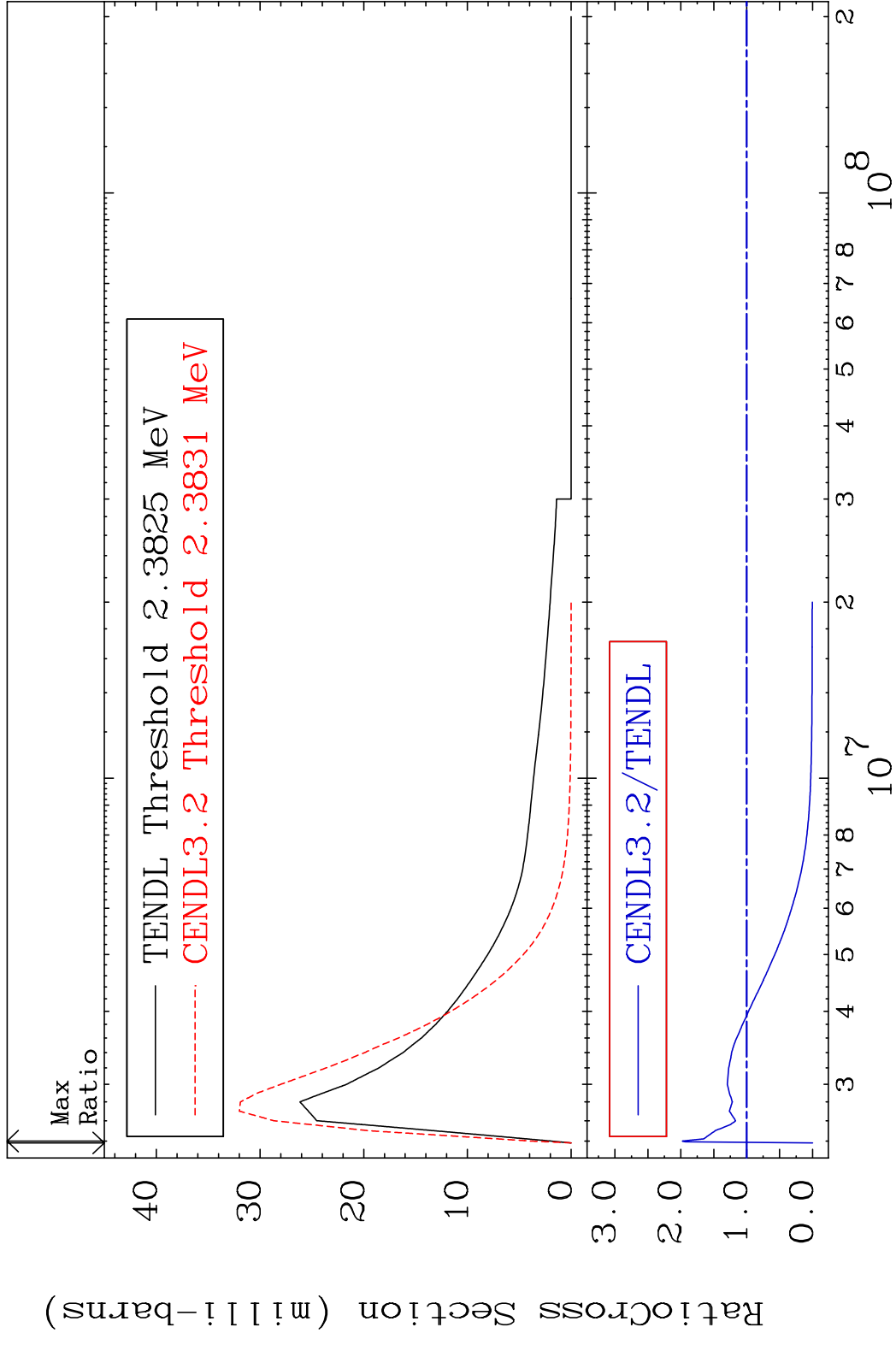
MAT 4028 MT= 60 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 167.0 %



MAT 4028 MT= 61 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 180.9 %



MAT 4028 MT= 62 (n, n') Level 40-Zr-91
 Cross Section -100.0 To 97.71 %

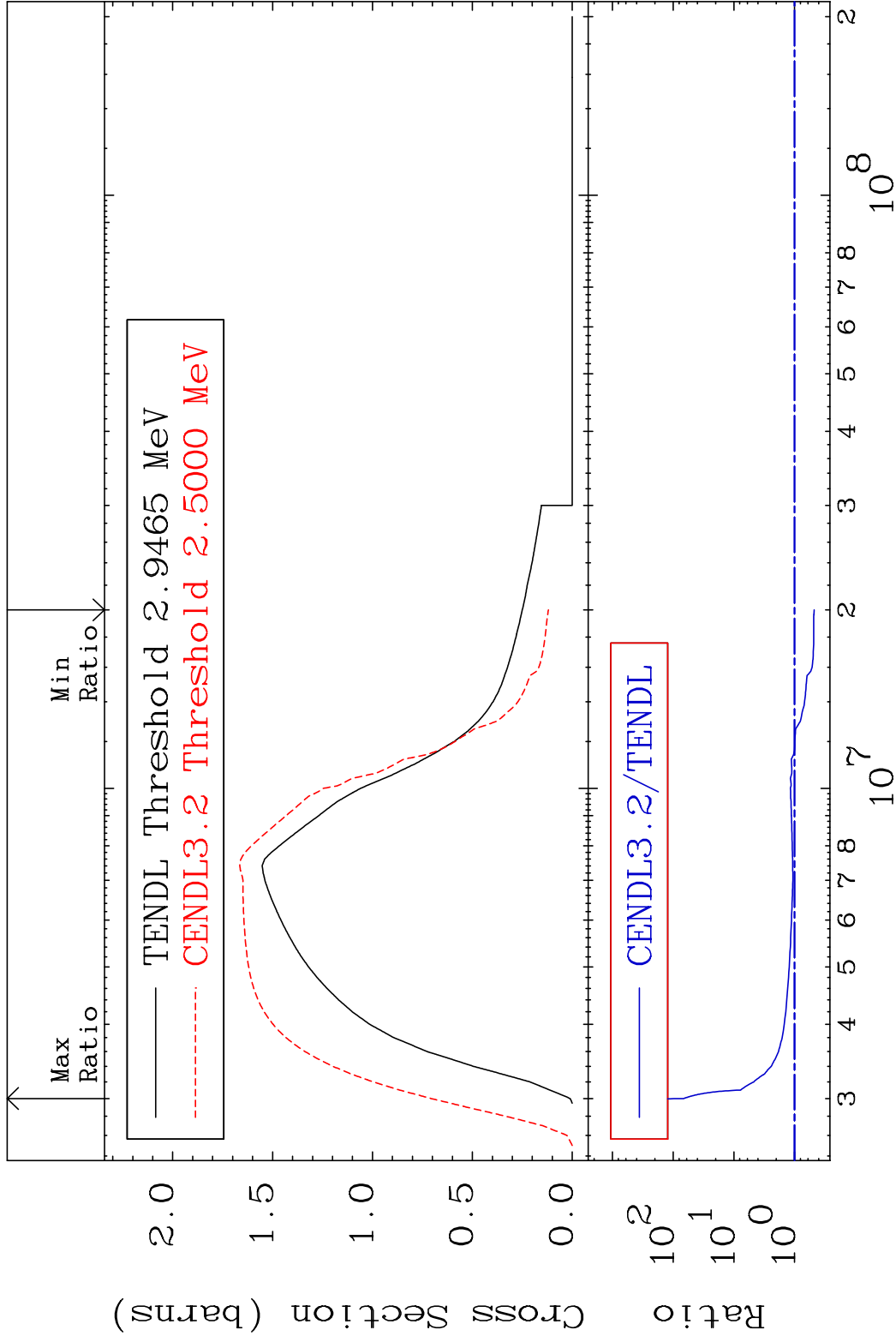


MAT 4028

(n, n') Continuum

40-Zr-91

Cross Section -52.24 To 6613. %



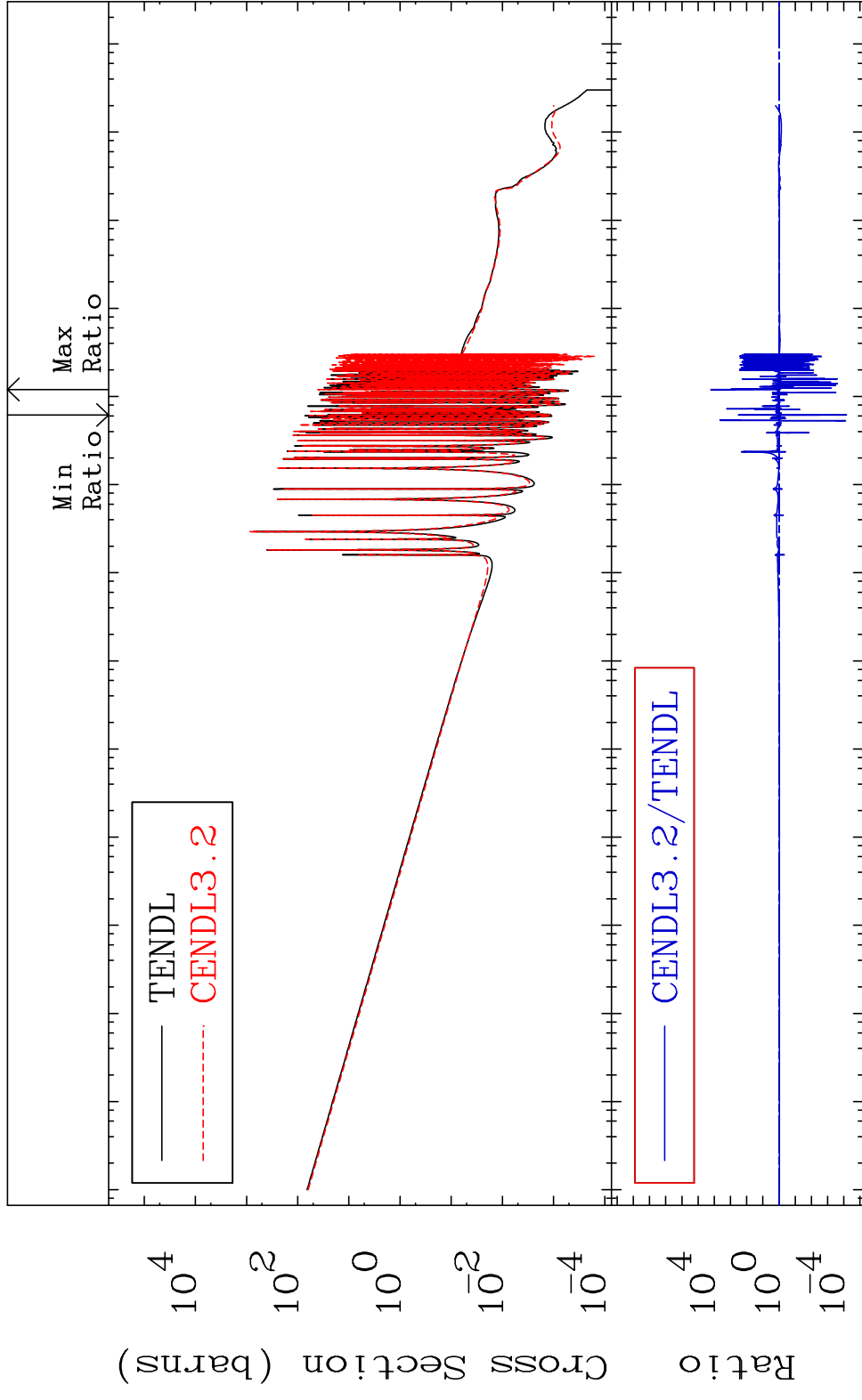
19

Incident Energy (eV)

40-Zr-91

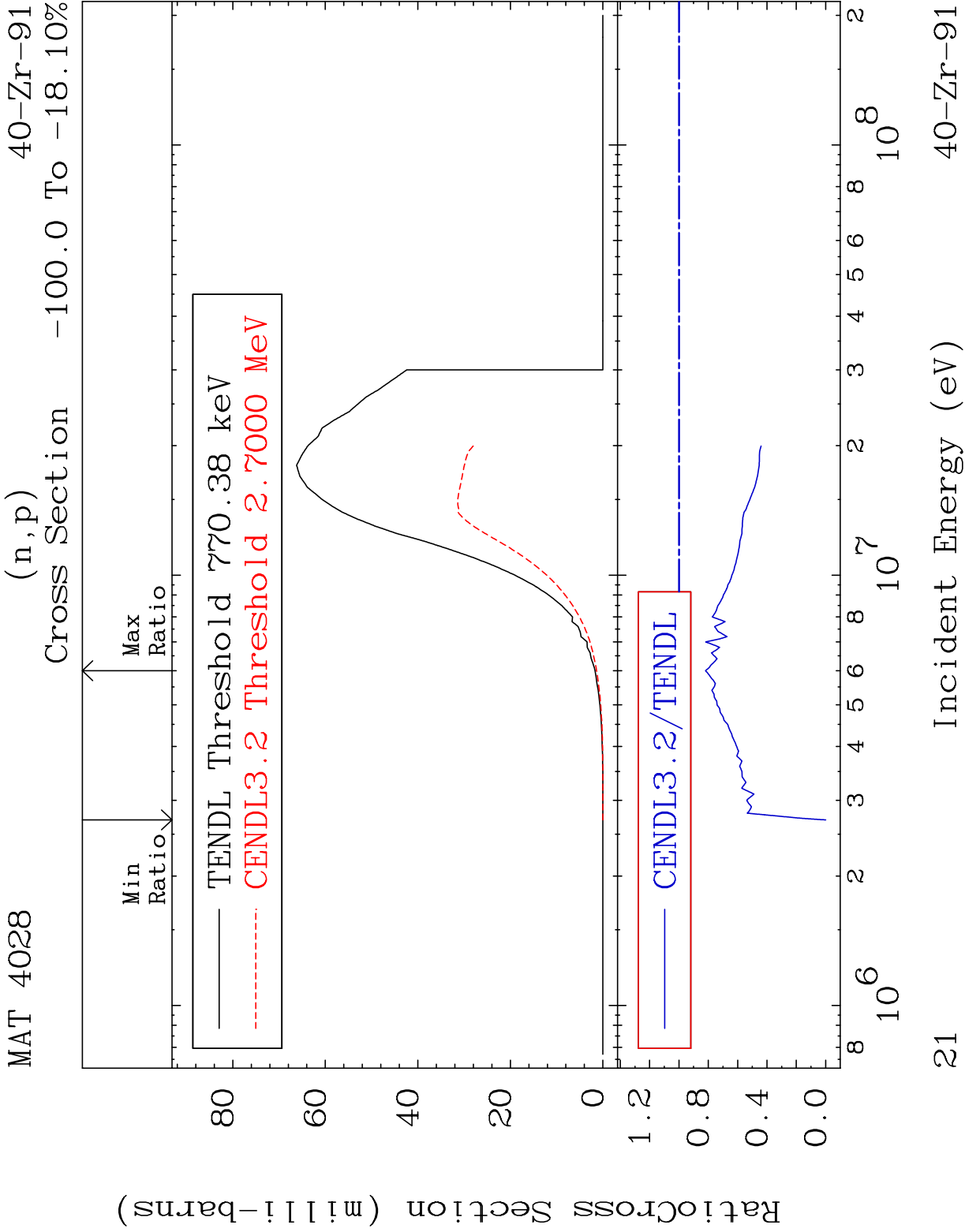
MAT 4028

(n, γ)
Cross Section -99.99 To 9999. % 40-Zr-91

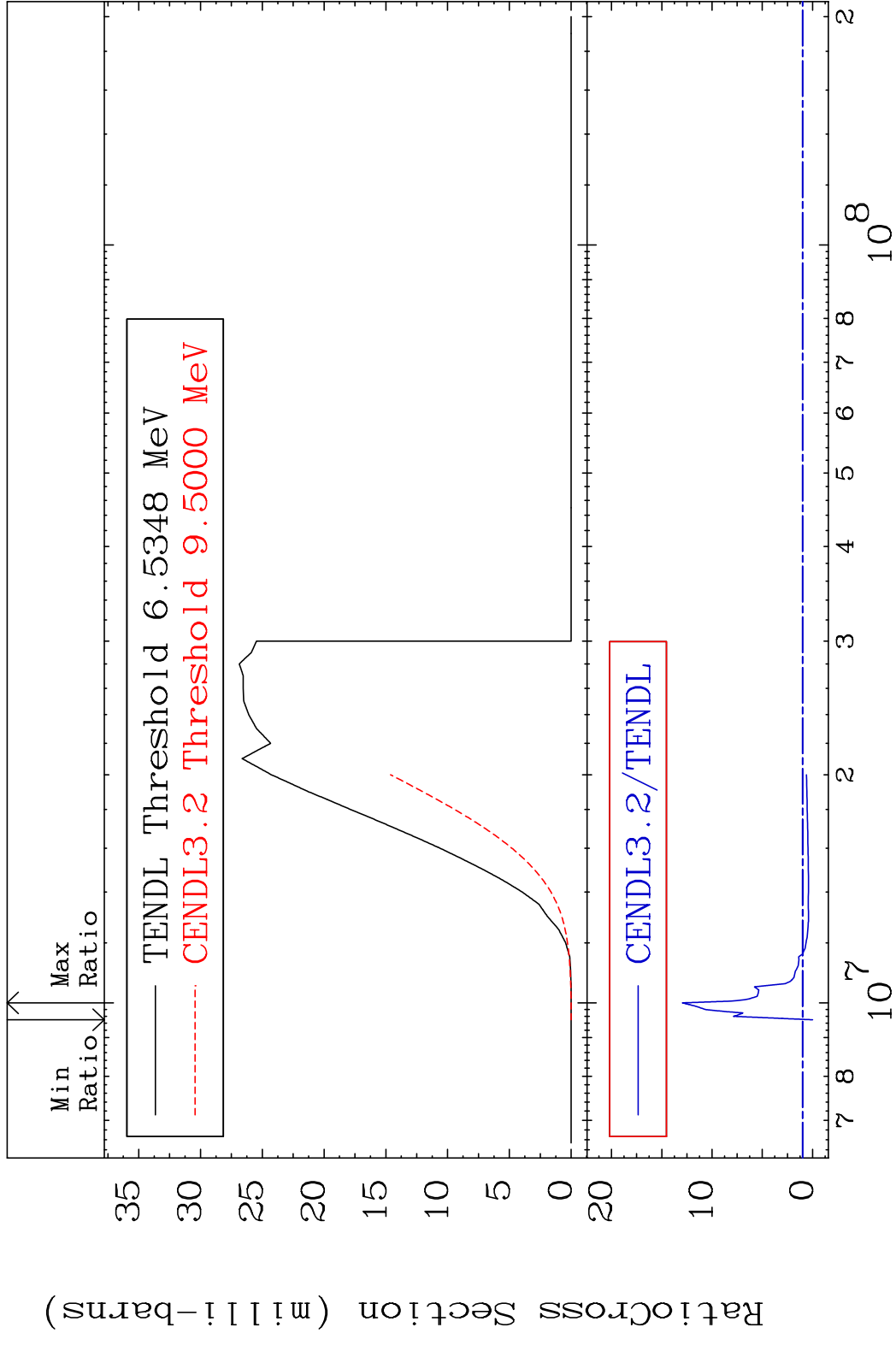


20

Incident Energy (eV) 40-Zr-91

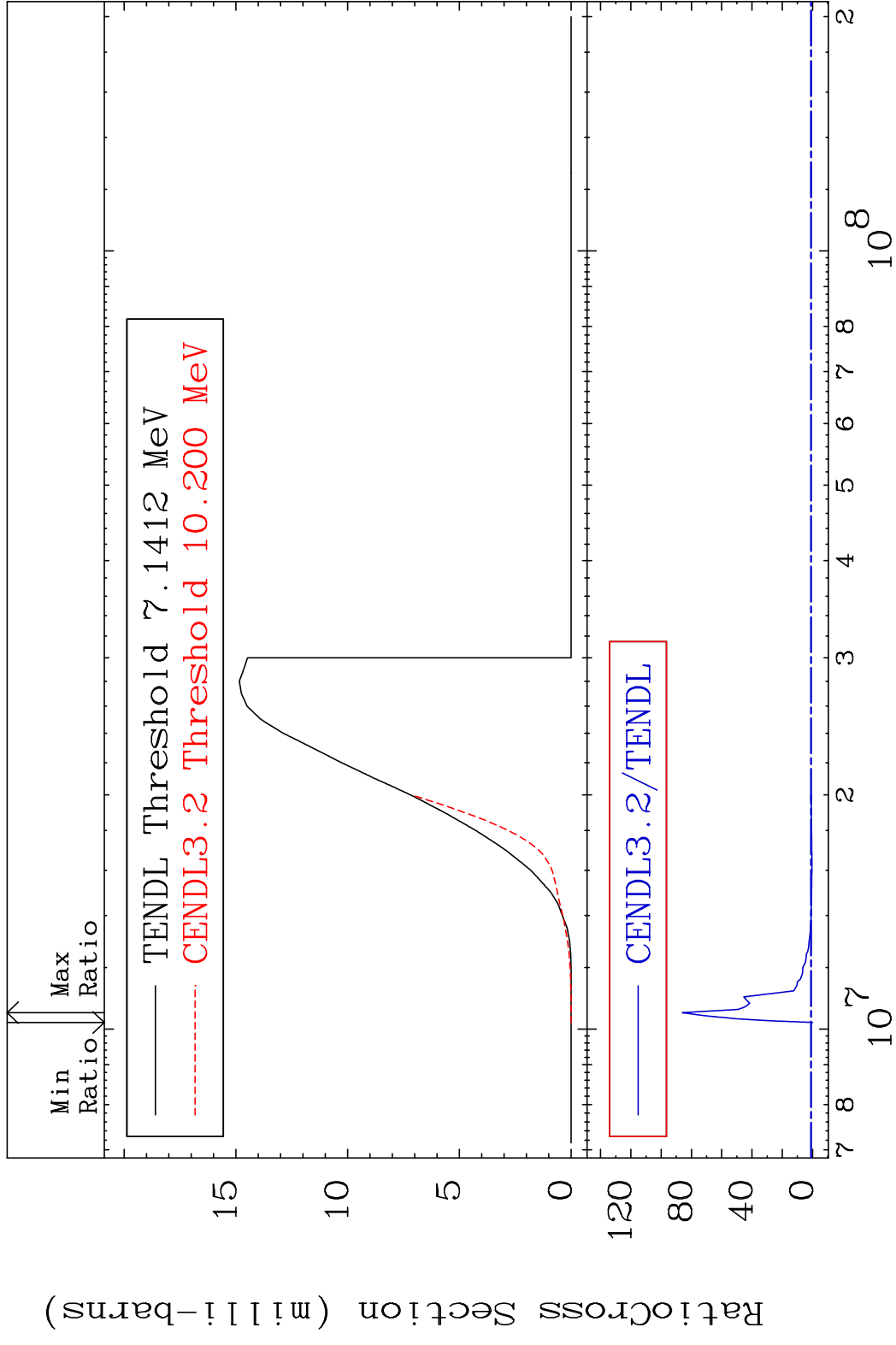


MAT 4028 (n,d) 40-Zr-91
 Cross Section -100.0 To 1195. %



22 Incident Energy (eV) 40-Zr-91

MAT 4028 (n, t) 40-Zr-91
 Cross Section -100.0 To 8500. %

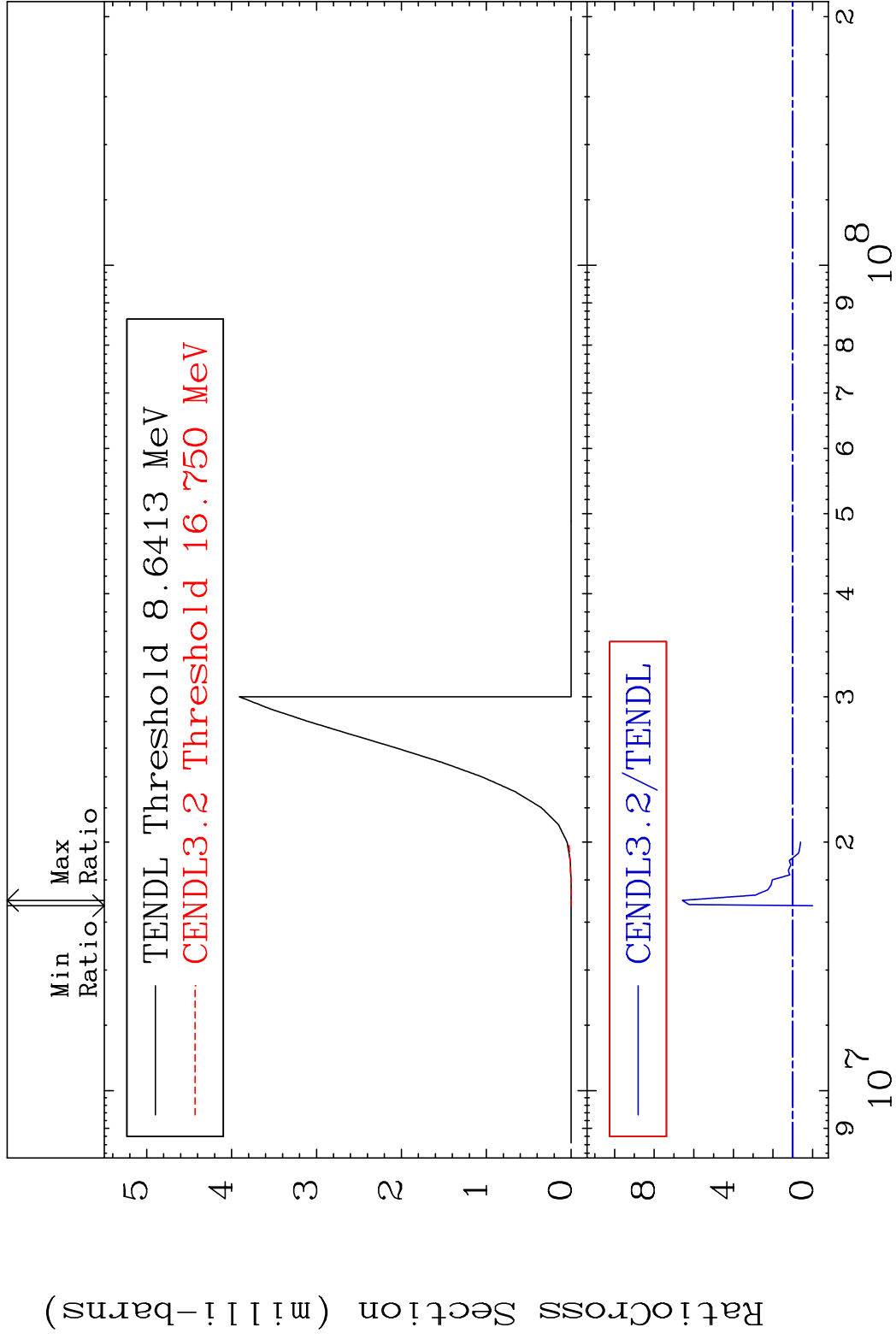


MAT 4028

(n, He-3)

40-Zr-91

Cross Section -100.0 To 557.6 %



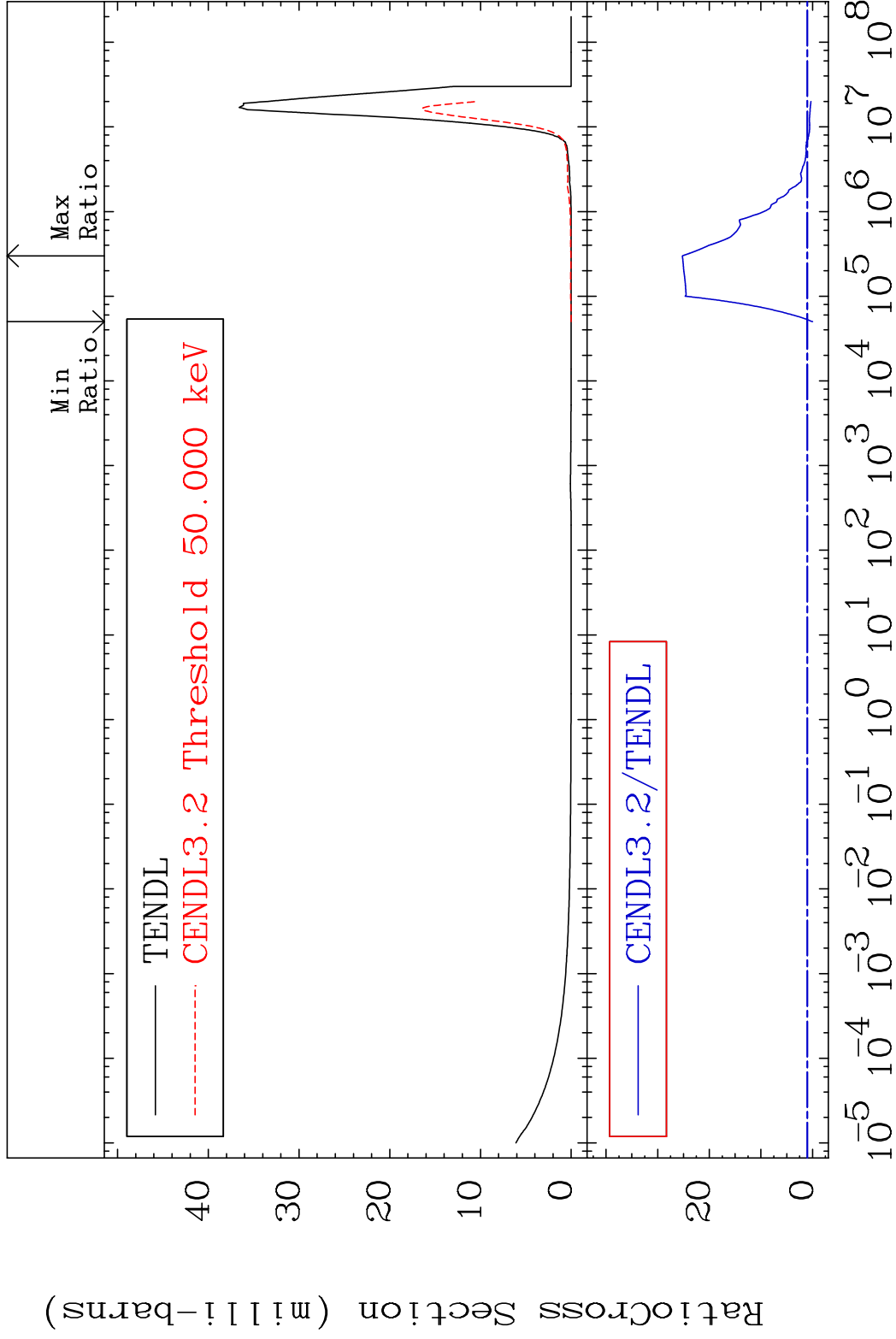
24

Incident Energy (eV)

40-Zr-91

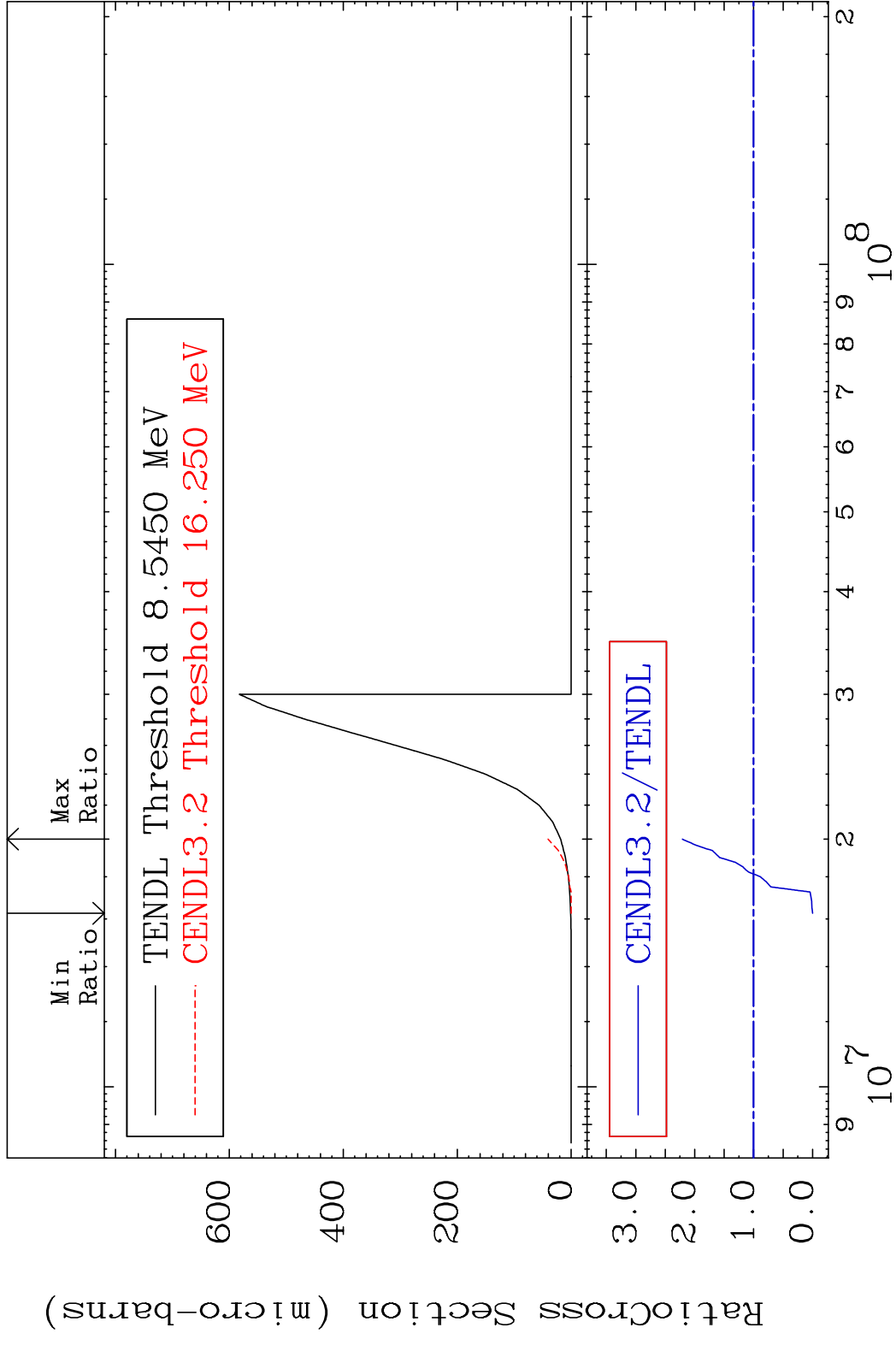
MAT 4028

(n, α)
Cross Section -100.0 To 2422. %
40-Zr-91



25

MAT 4028 (n,2p) 40-Zr-91
 Cross Section -100.0 To 121.0 %

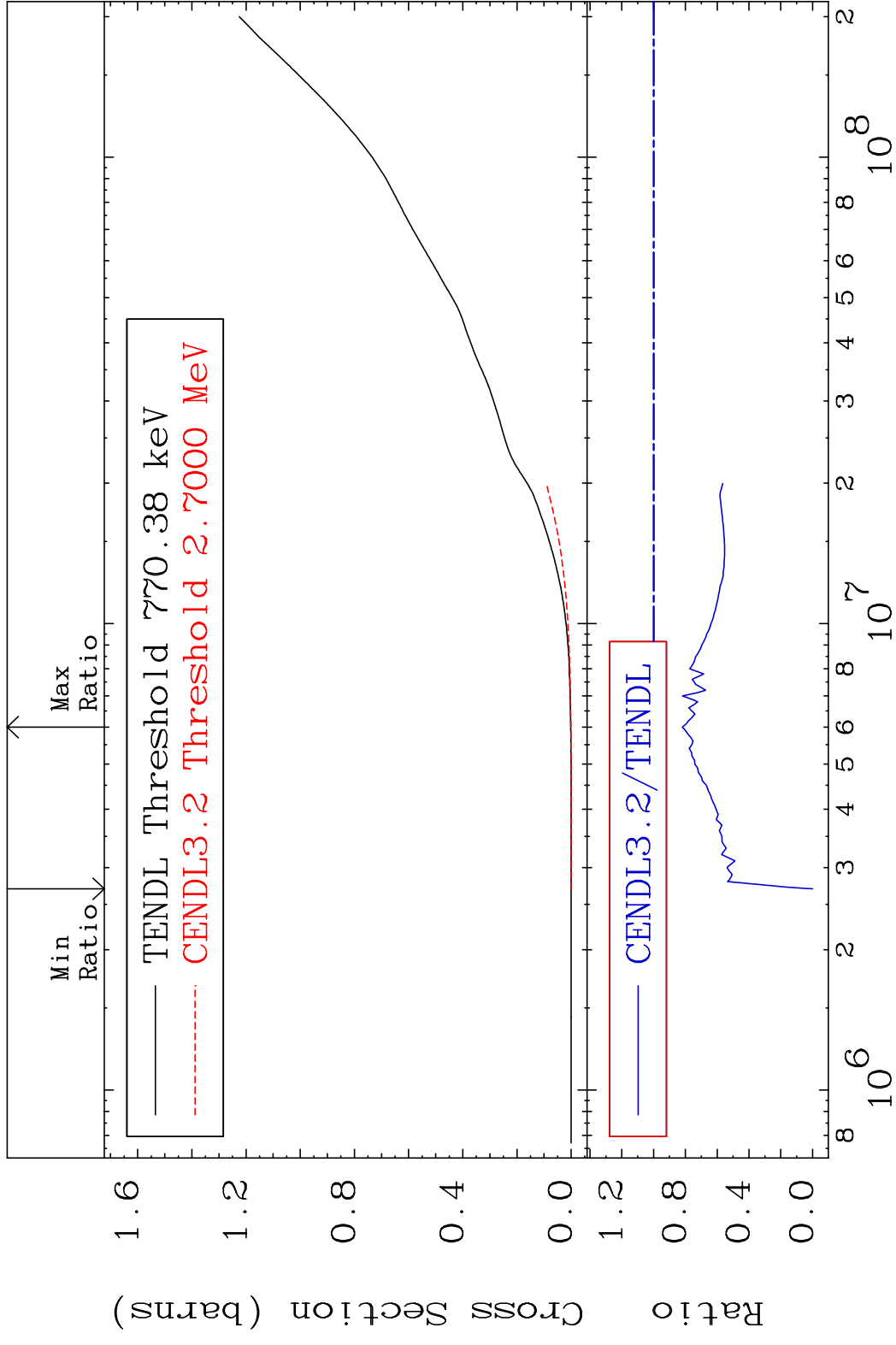


MAT 4028

Hydrogen Production

40-Zr-91

Cross Section -100.0 To -18.10%



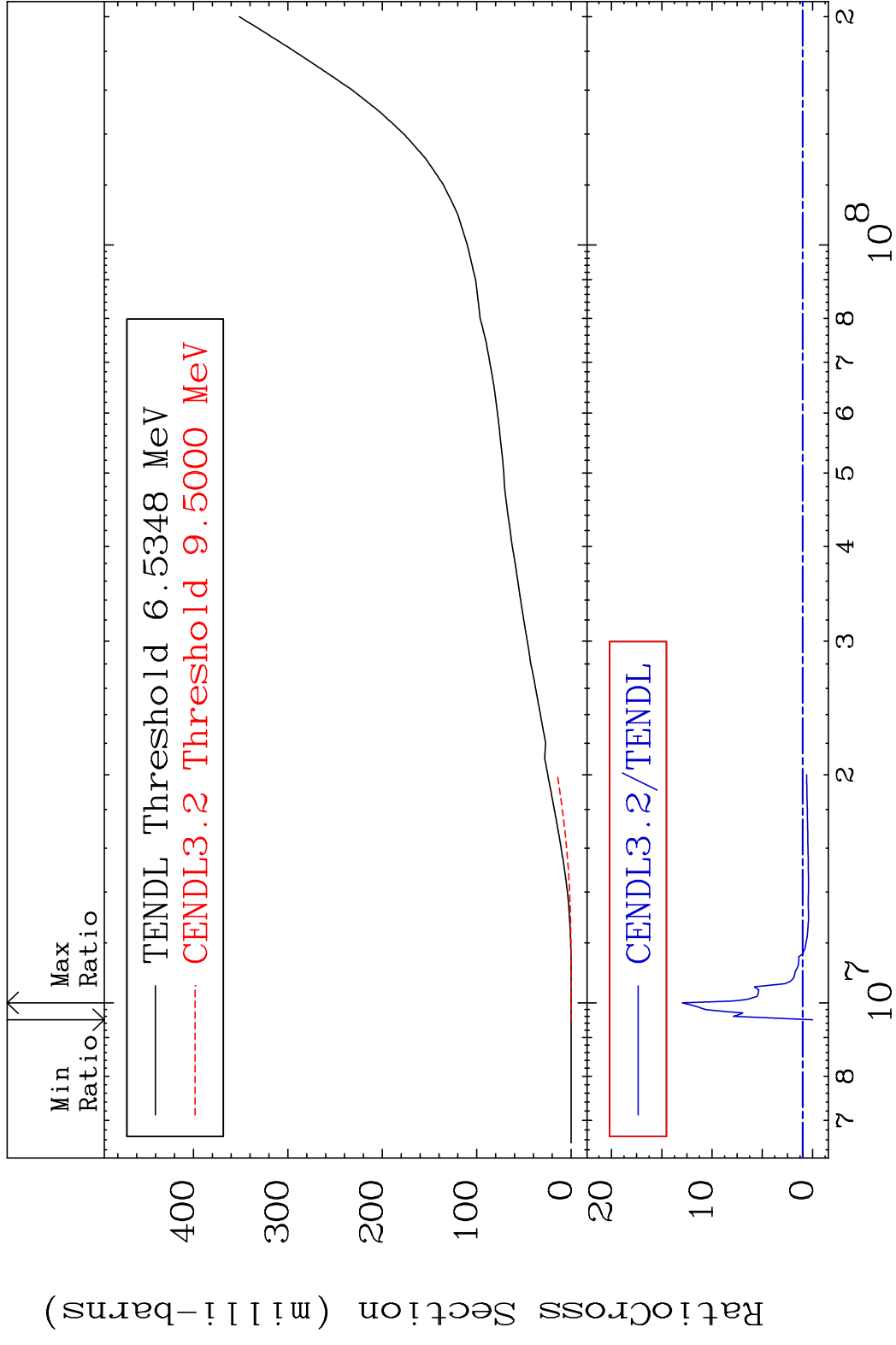
27

Incident Energy (eV)

40-Zr-91

MAT 4028

Deuterium Production 40-Zr-91
Cross Section -100.0 To 1195. %

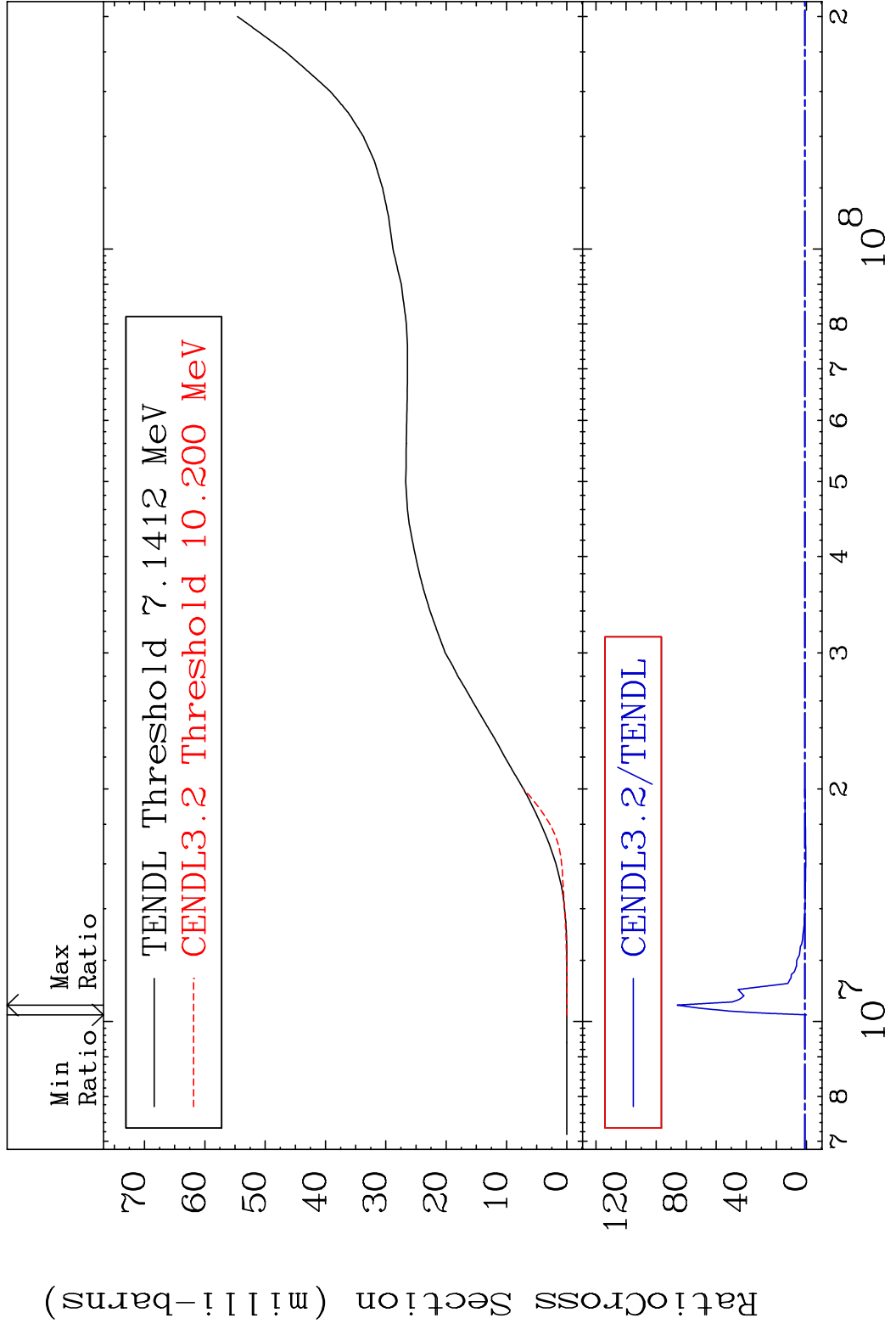


28

40-Zr-91

MAT 4028

Tritium Production 40-Zr-91
Cross Section -100.0 To 8500. %

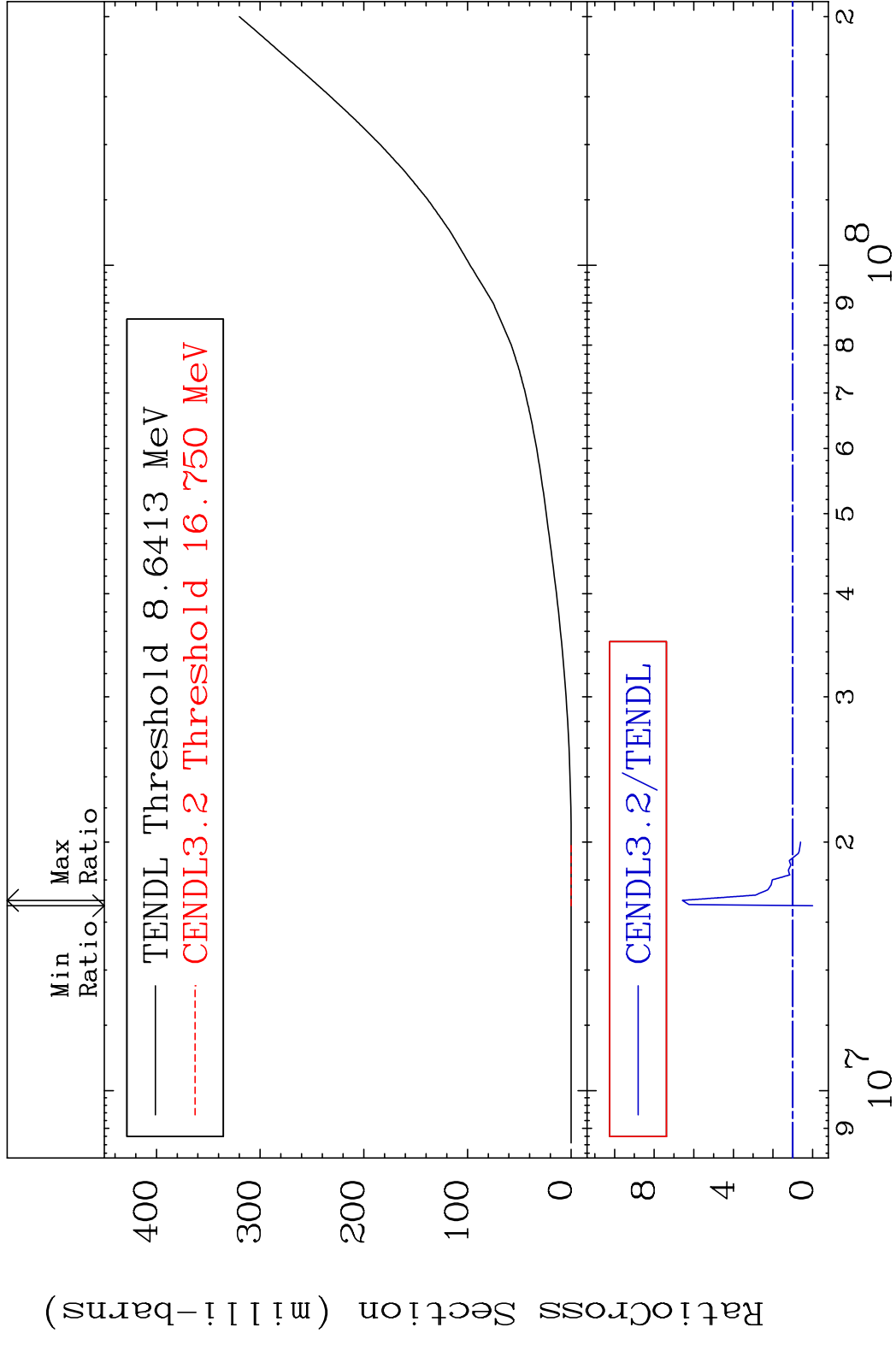


MAT 4028

He-3 Production

40-Zr-91

Cross Section -100.0 To 557.6 %



30

Incident Energy (eV)

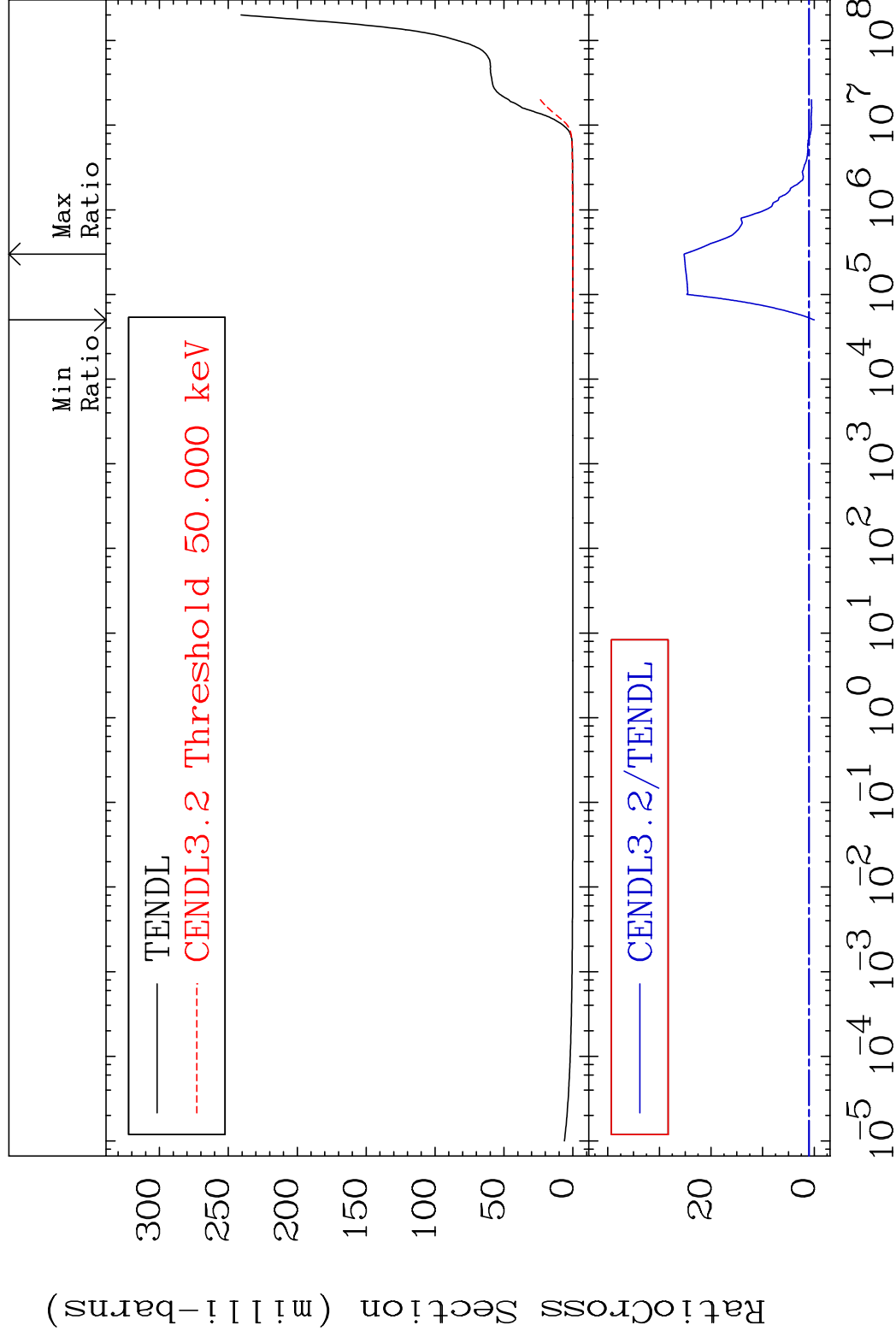
40-Zr-91

MAT 4028

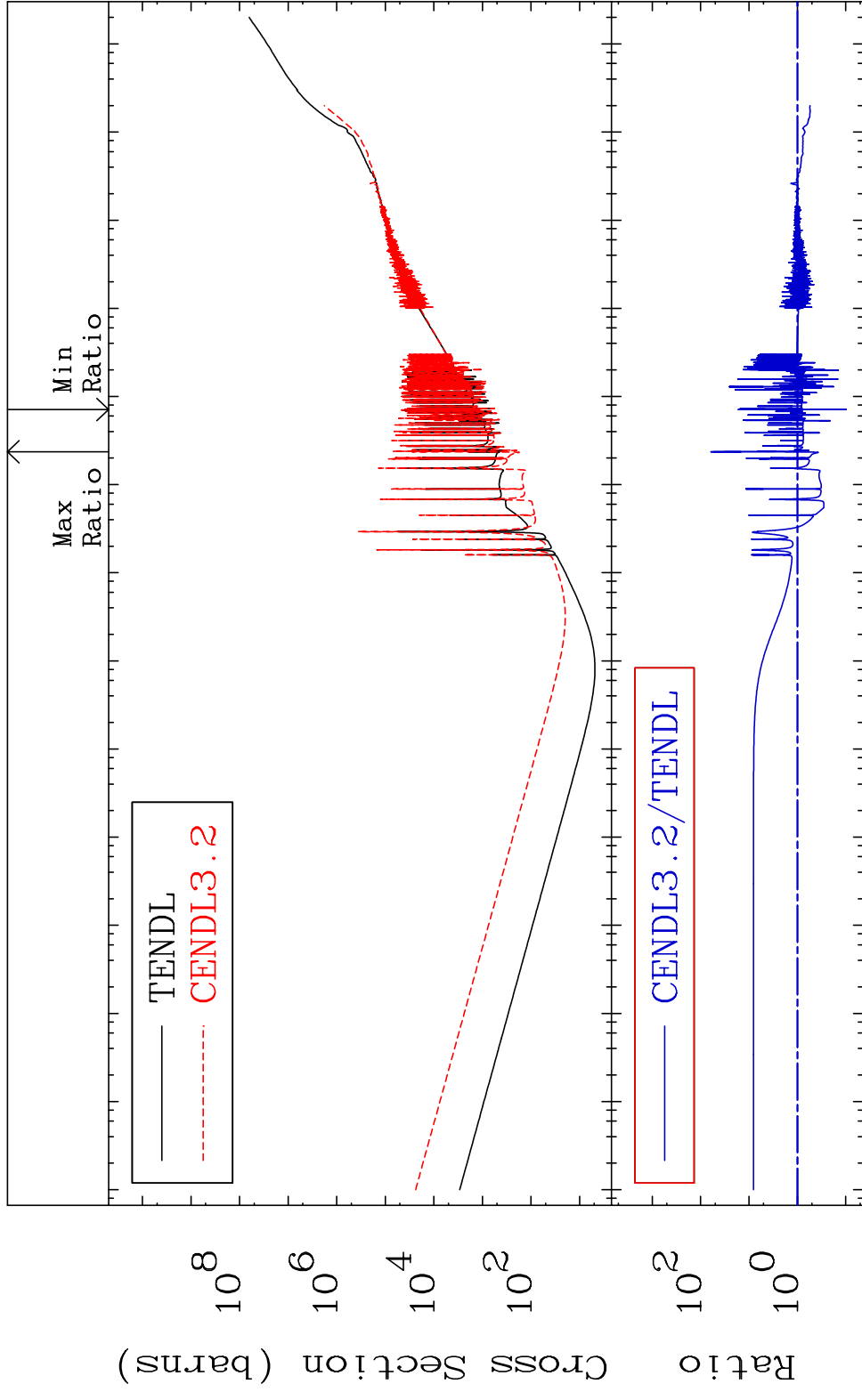
He-4 Production

40-Zr-91

Cross Section -100.0 To 2422. %



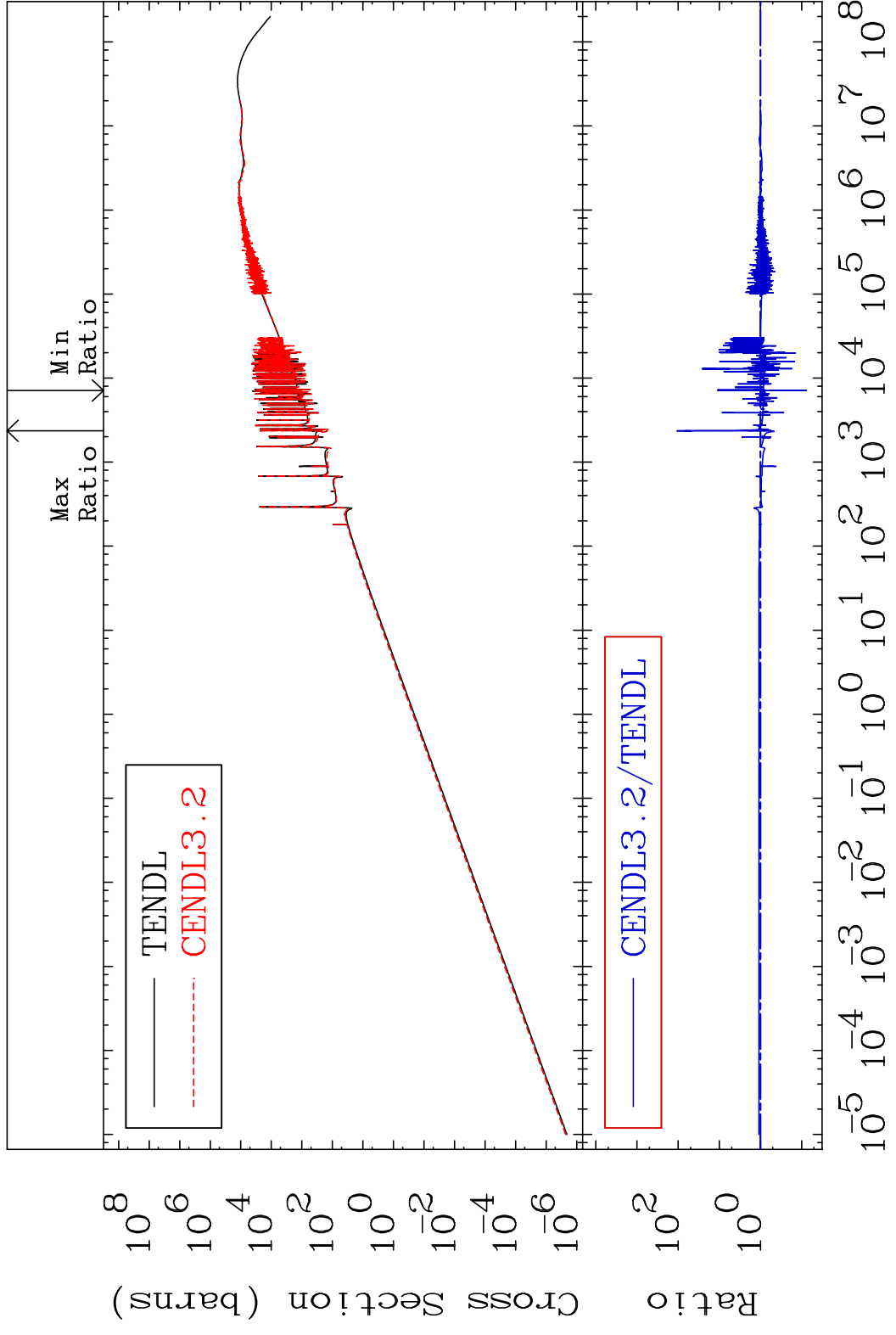
MAT 4028 Kerma total (eV-barns) 40-Zr-91
 Cross Section -90.30 To 6081. %



32 Incident Energy (eV) 40-Zr-91

MAT 4028

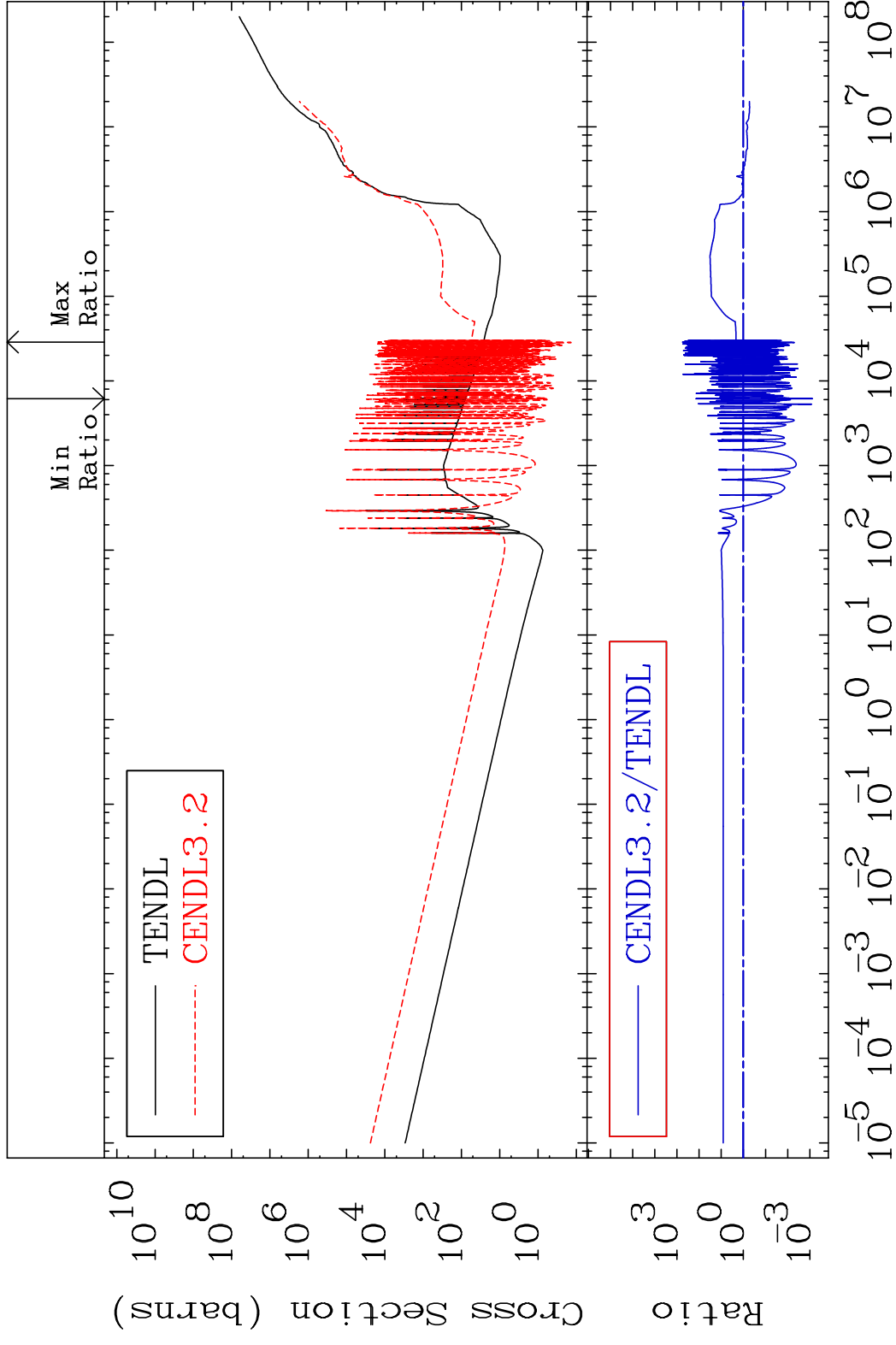
Kerma elastic Cross Section -92.35 To 9999. %
40-Zr-91



33

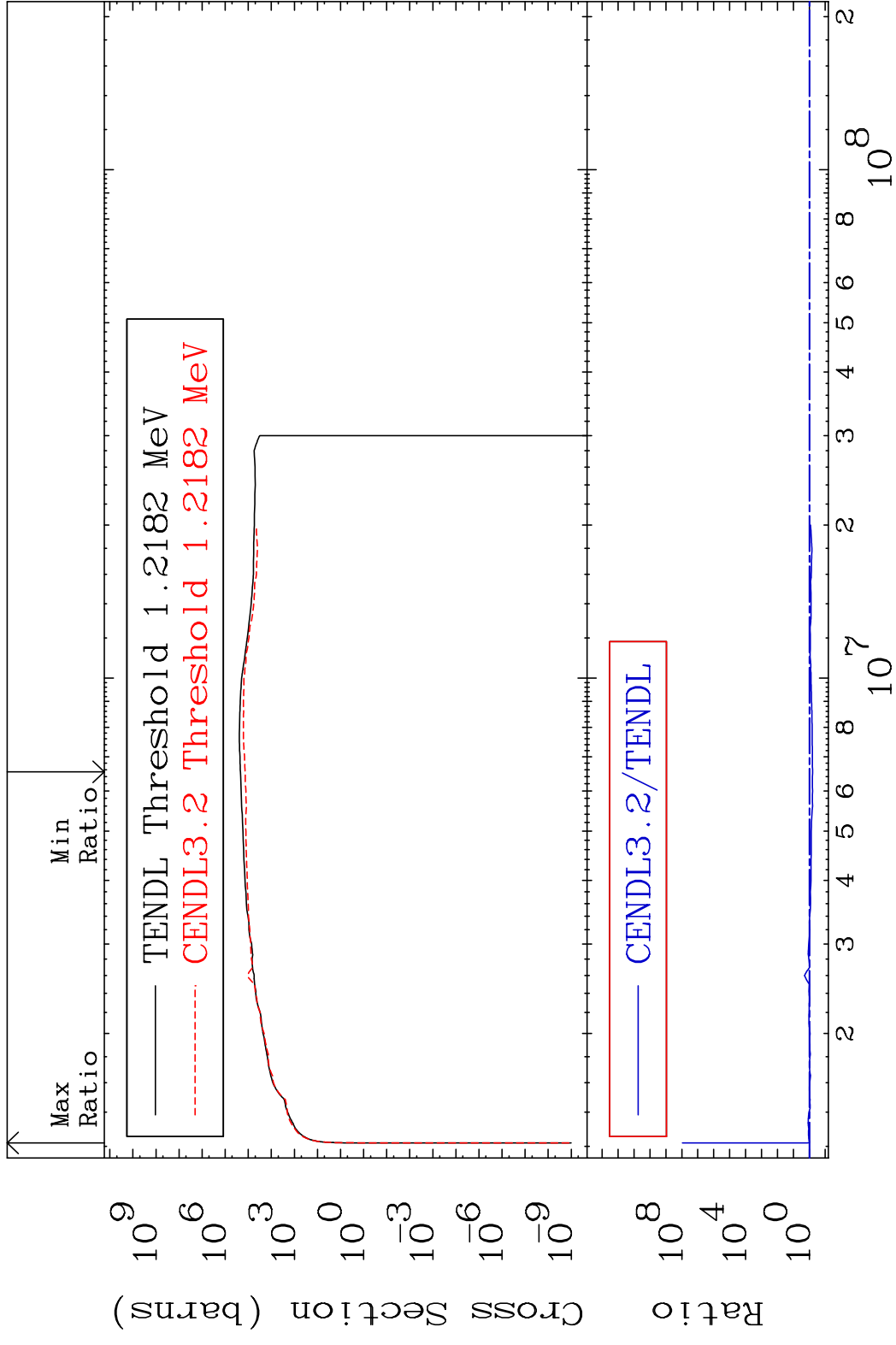
Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma non-elastic (all but mt2) 40-Zr-91
 Cross Section -99.92 To 9999. %

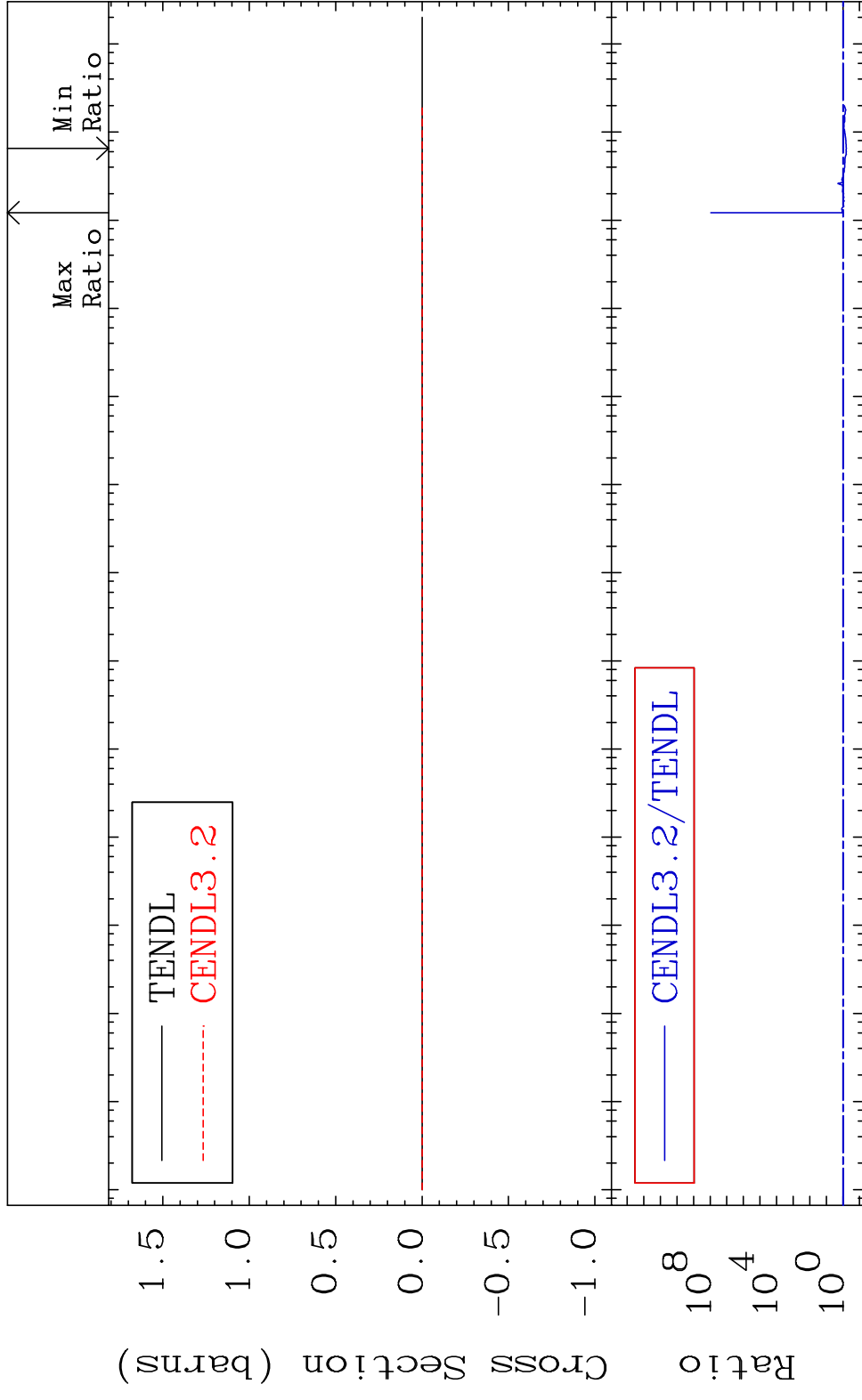


34 Incident Energy (eV) 40-Zr-91

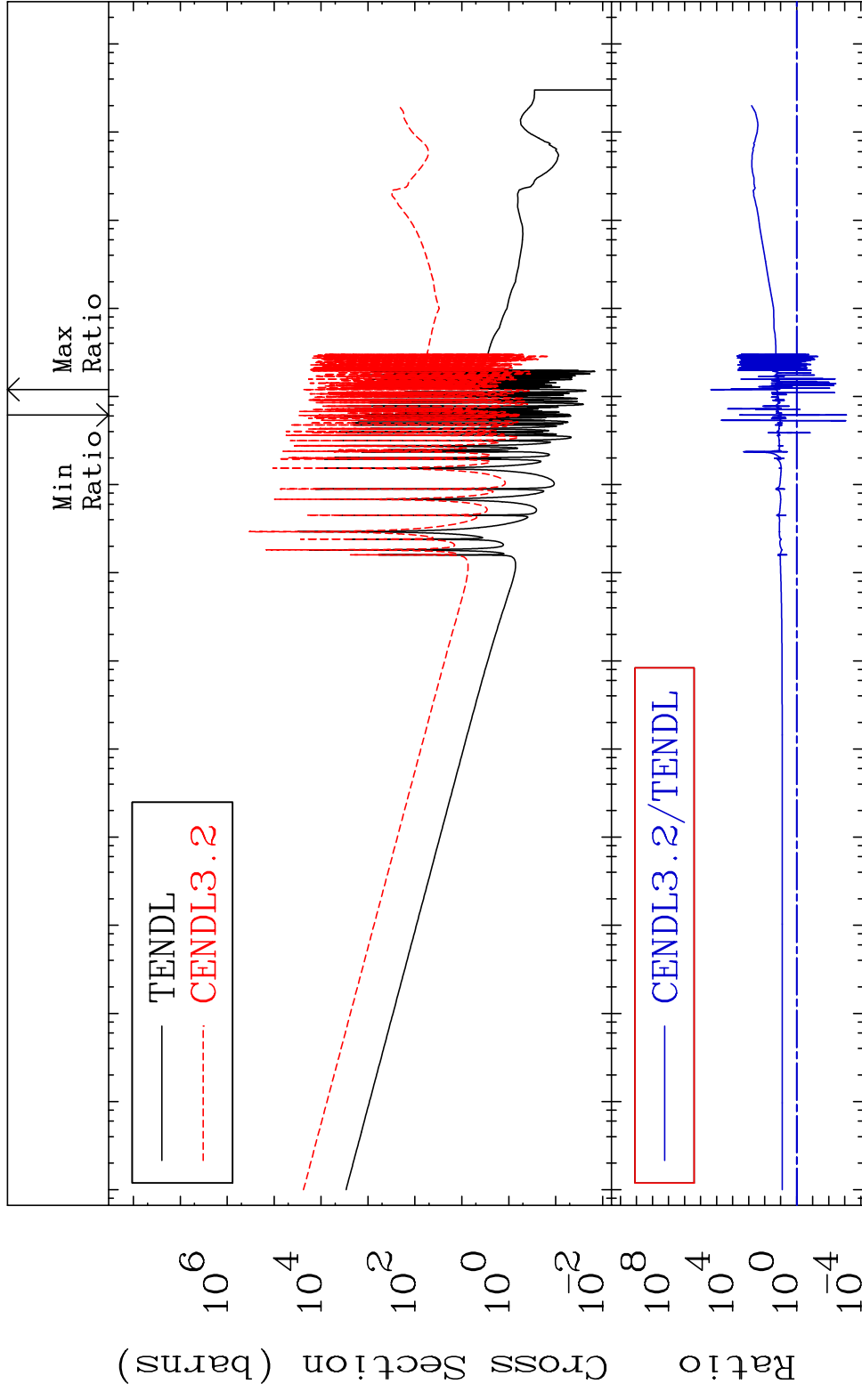
MAT 4028 Kerma inelastic (mt51-91) 40-Zr-91
 Cross Section -37.43 To 9999. %



MAT 4028 Kerma fission (mt18 or mt19-20-21-38) 40-Zr-91
 Cross Section -37.43 To 9999. %

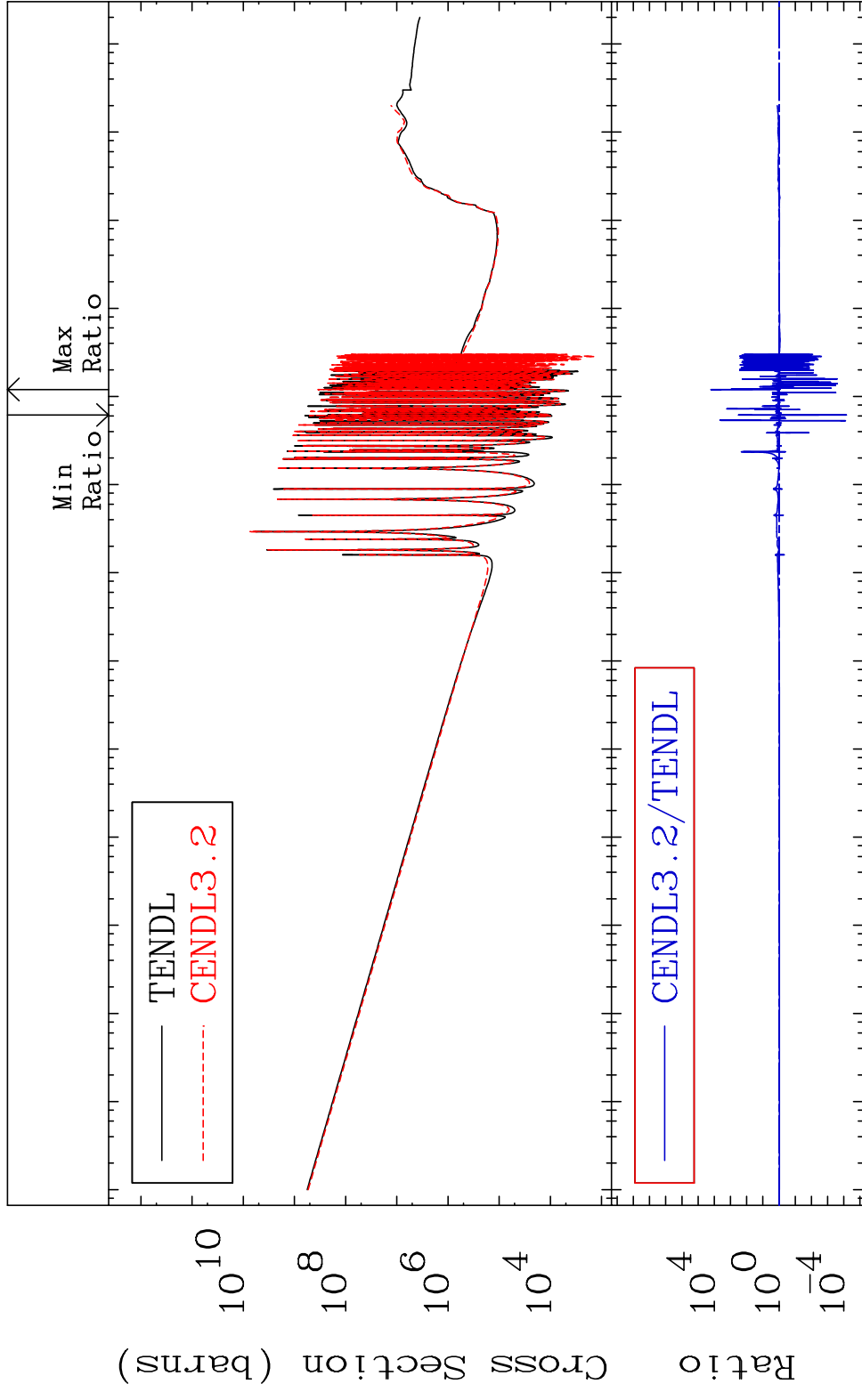


MAT 4028 Kerma capture (mt102) 40-Zr-91
 Cross Section -99.92 To 9999. %

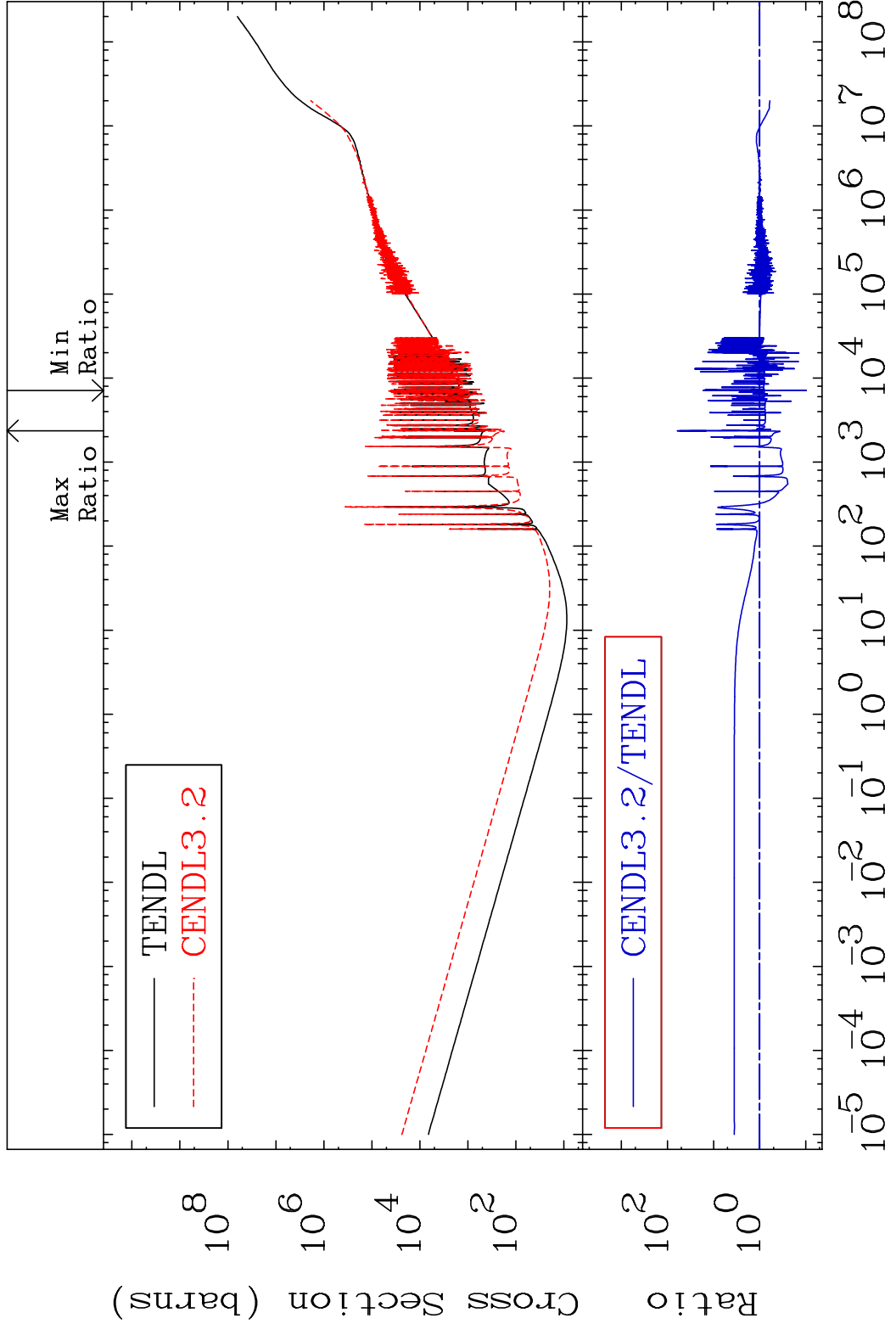


37 Incident Energy (eV) 40-Zr-91

MAT 4028 Total photon (eV-barns) 40-Zr-91
Cross Section -99.99 To 9999. %



MAT 4028 Total kinematic kerma (high limit) 40-Zr-91
 Cross Section -90.30 To 6061. %

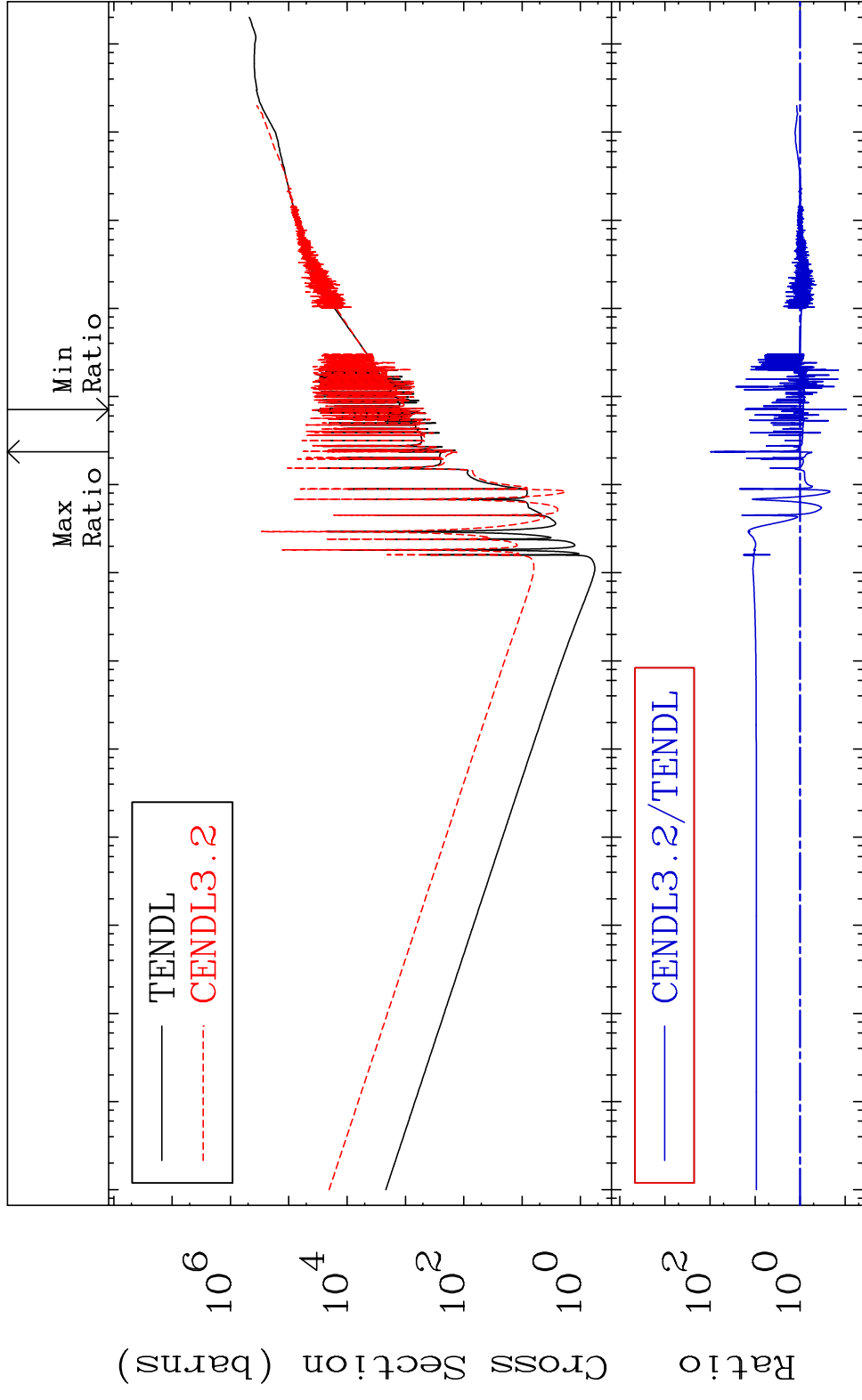


MAT 4028

Dpa total (eV-barns)

40-Zr-91

Cross Section -90.56 To 9533. %



40

Incident Energy (eV)

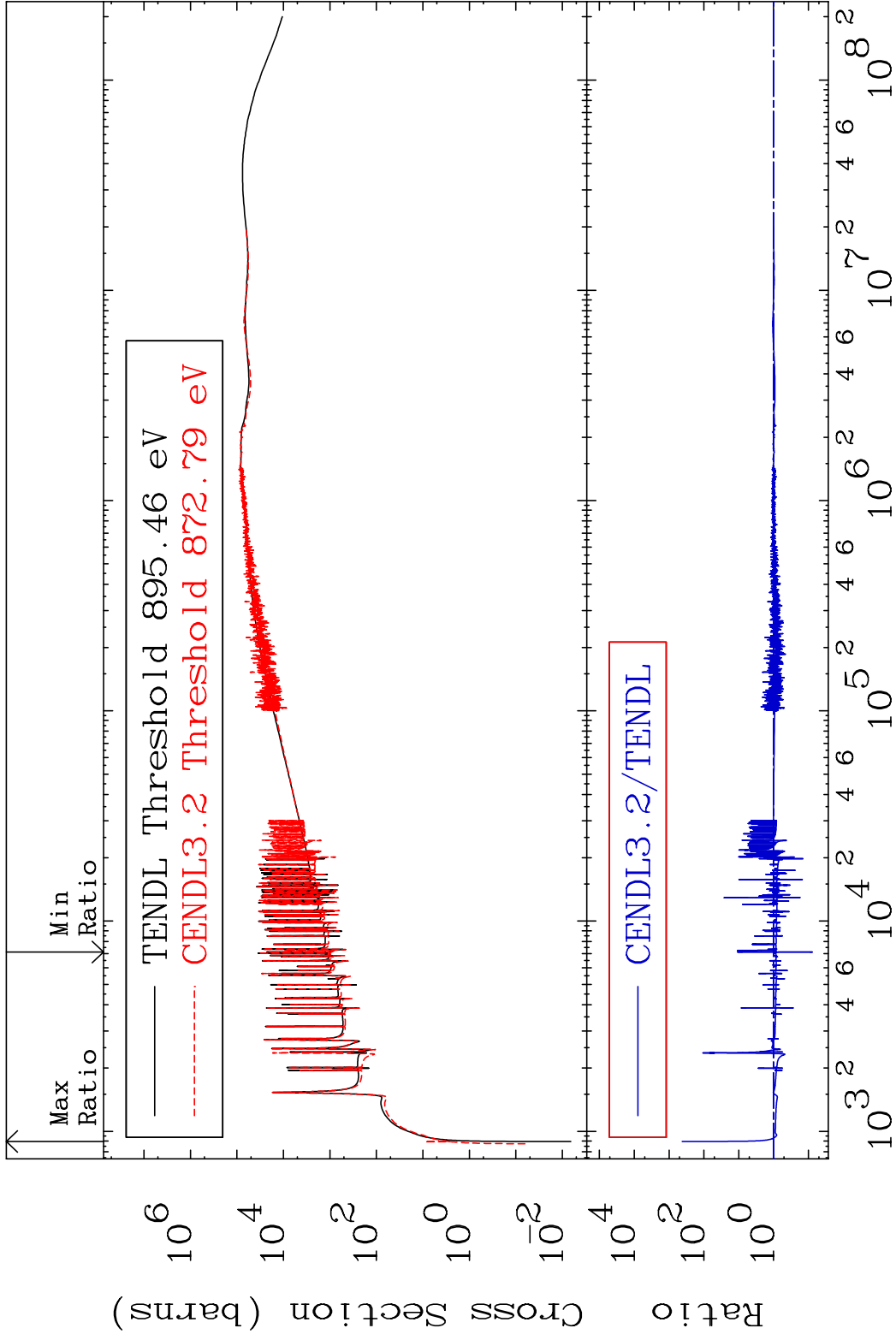
40-Zr-91

MAT 4028

Dpa elastic (mt2)

40-Zr-91

Cross Section -92.35 To 9999. %

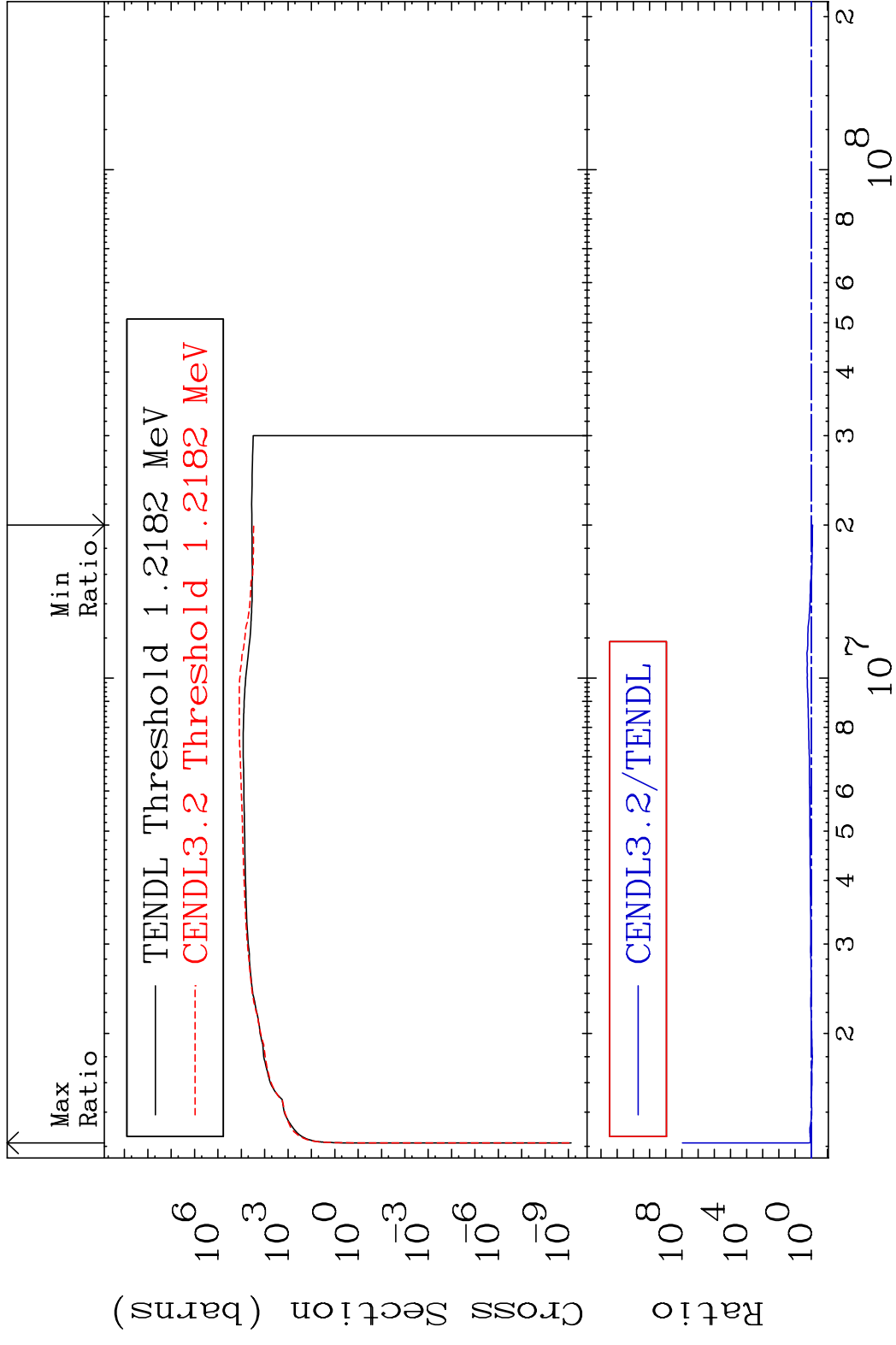


41

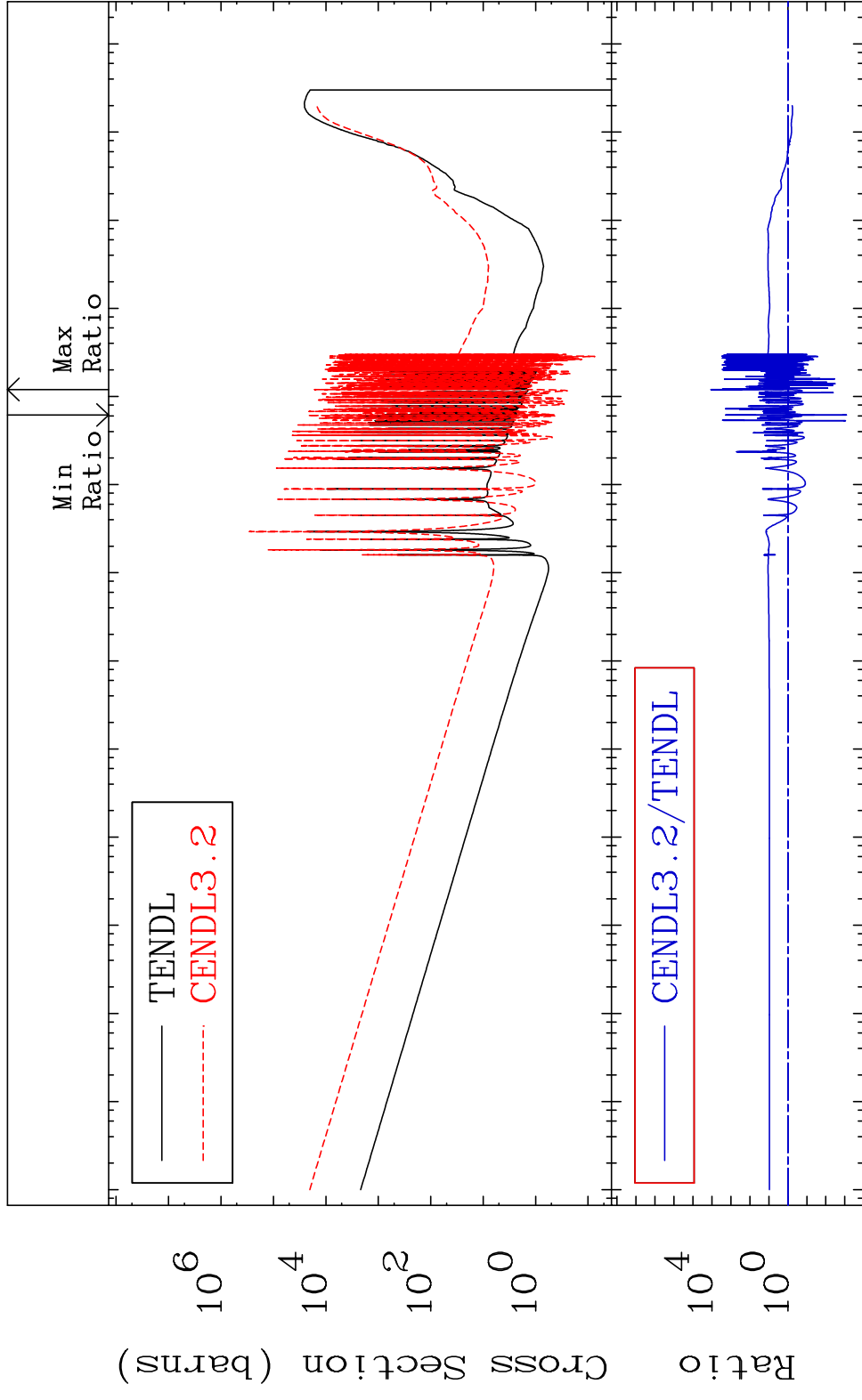
Incident Energy (eV)

40-Zr-91

MAT 4028 Dpa inelastic (mt51-91) 40-Zr-91
 Cross Section -15.85 To 9999. %

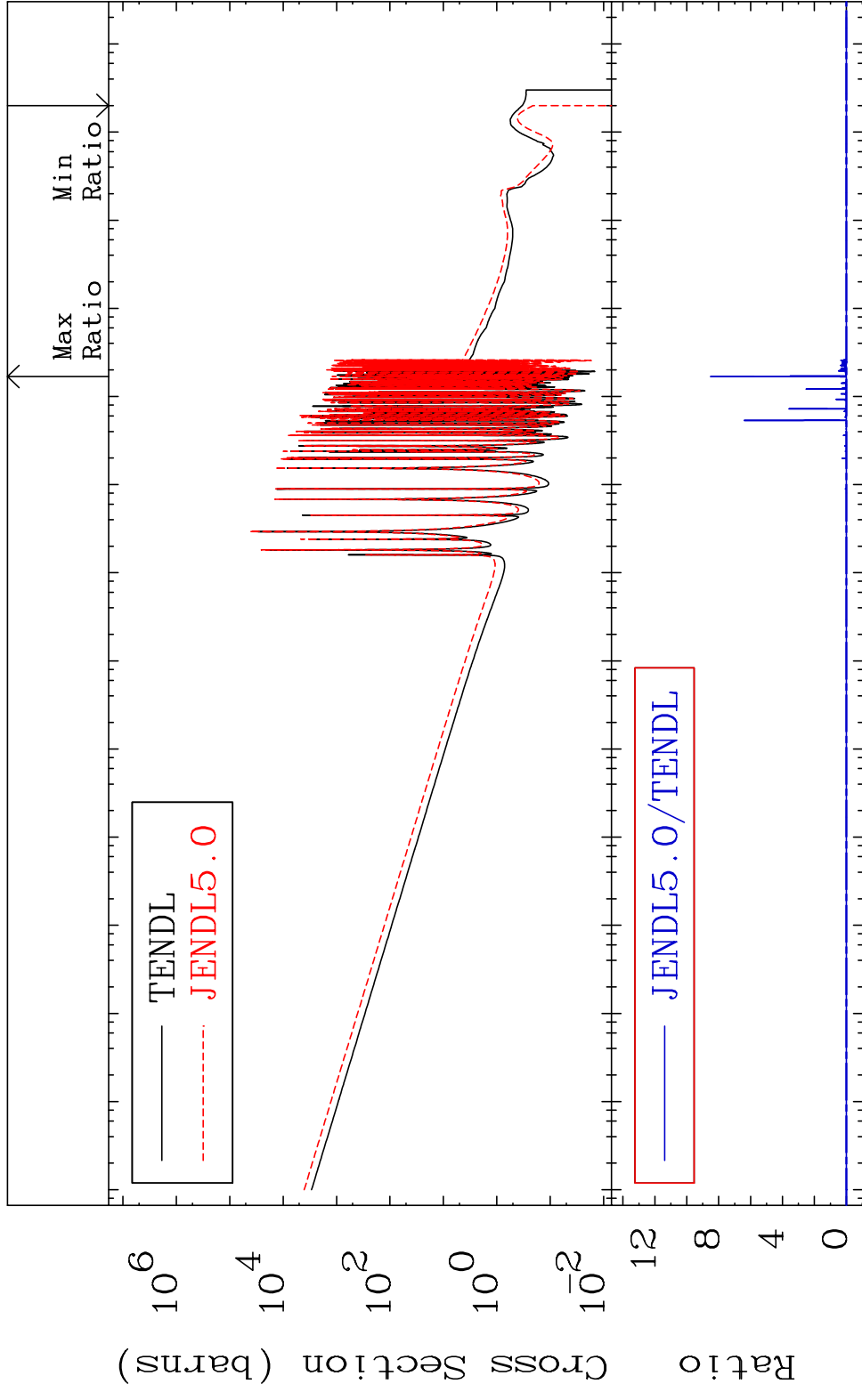


MAT 4028 Dpa disappearance (mt102 -120) 40-Zr-91
 Cross Section -99.92 To 9999. %



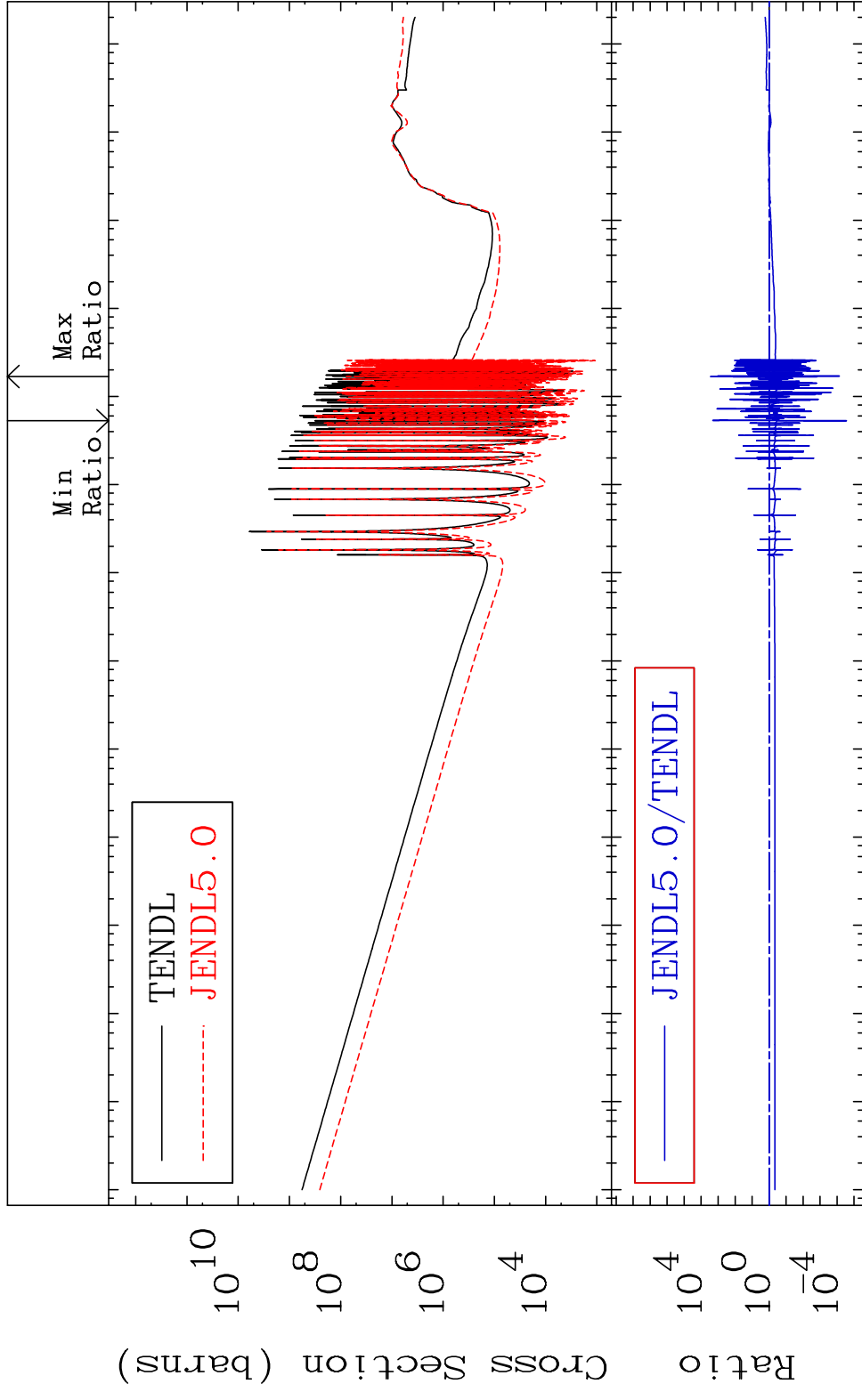
43 Incident Energy (eV) 40-Zr-91

MAT 4028 Kerma capture (mt102) 40-Zr-91
 Cross Section -100.0 To 9999. %



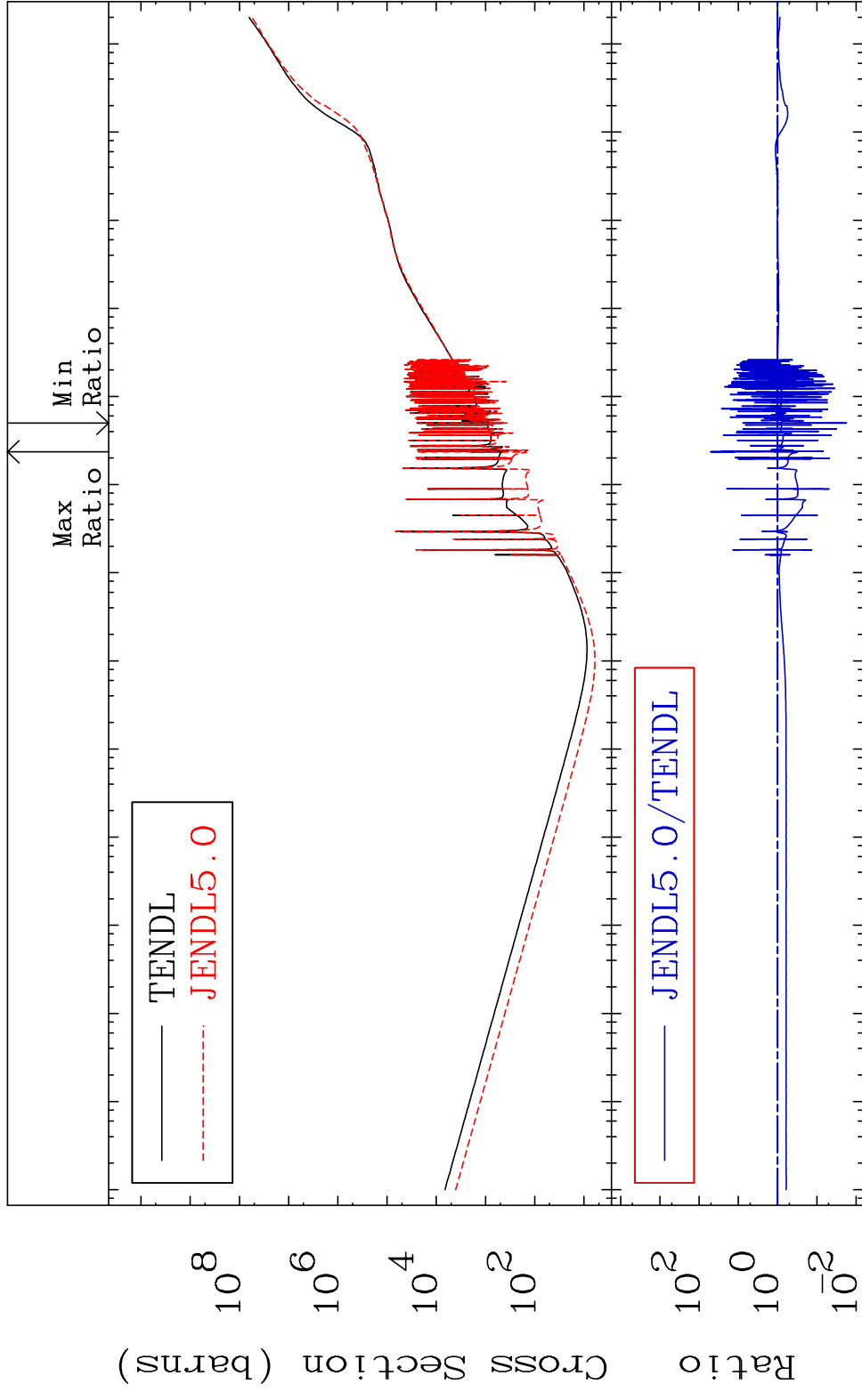
44 Incident Energy (eV) 40-Zr-91

MAT 4028 Total photon (eV-barns) 40-Zr-91
 Cross Section -100.0 To 9999. %

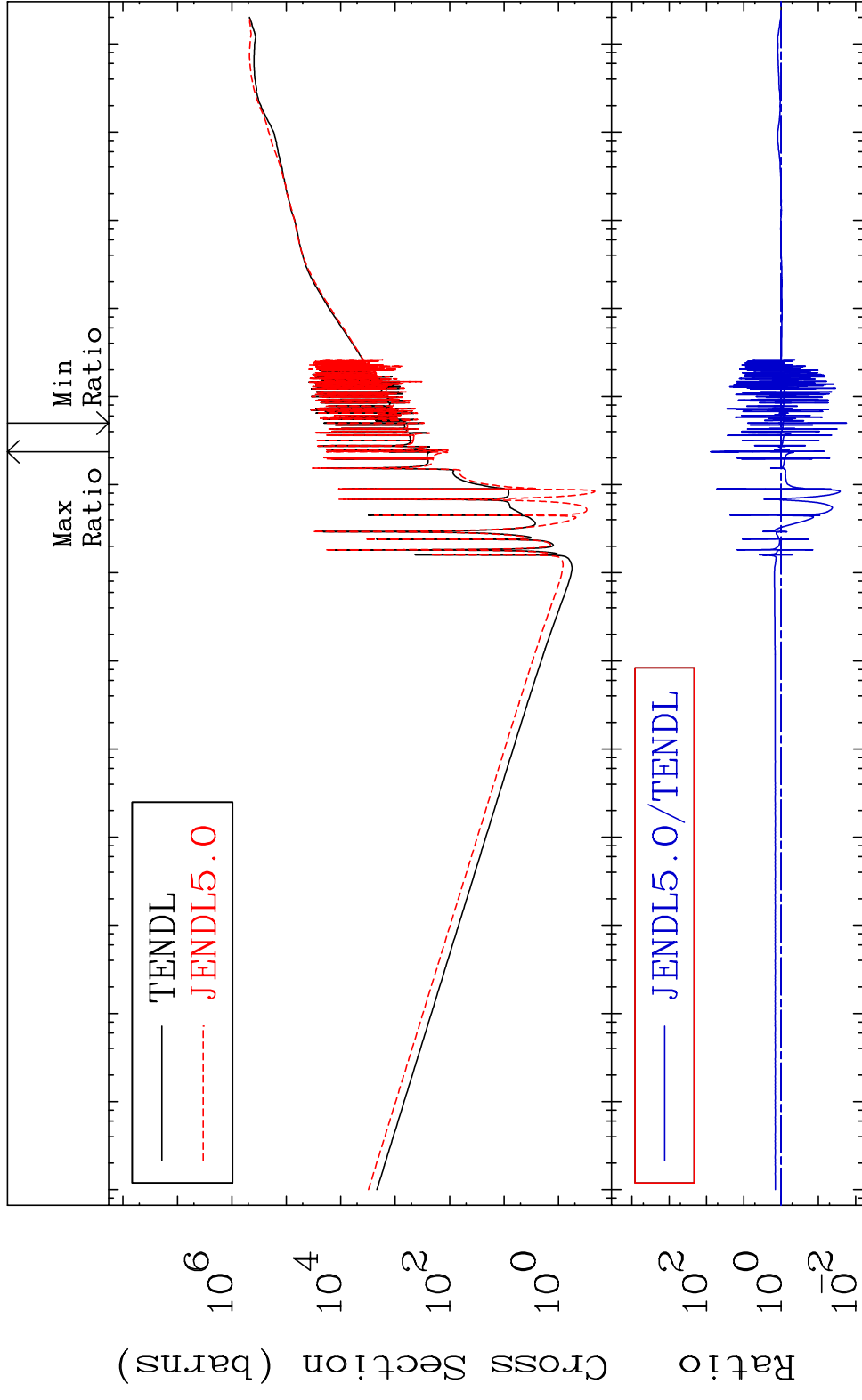


45 Incident Energy (eV) 40-Zr-91

MAT 4028 Total kinematic kerma (high limit) 40-Zr-91
 Cross Section -98.23 To 4970. %



MAT 4028 Dpa total (eV-barns) 40-Zr-91
 Cross Section -98.23 To 7600. %



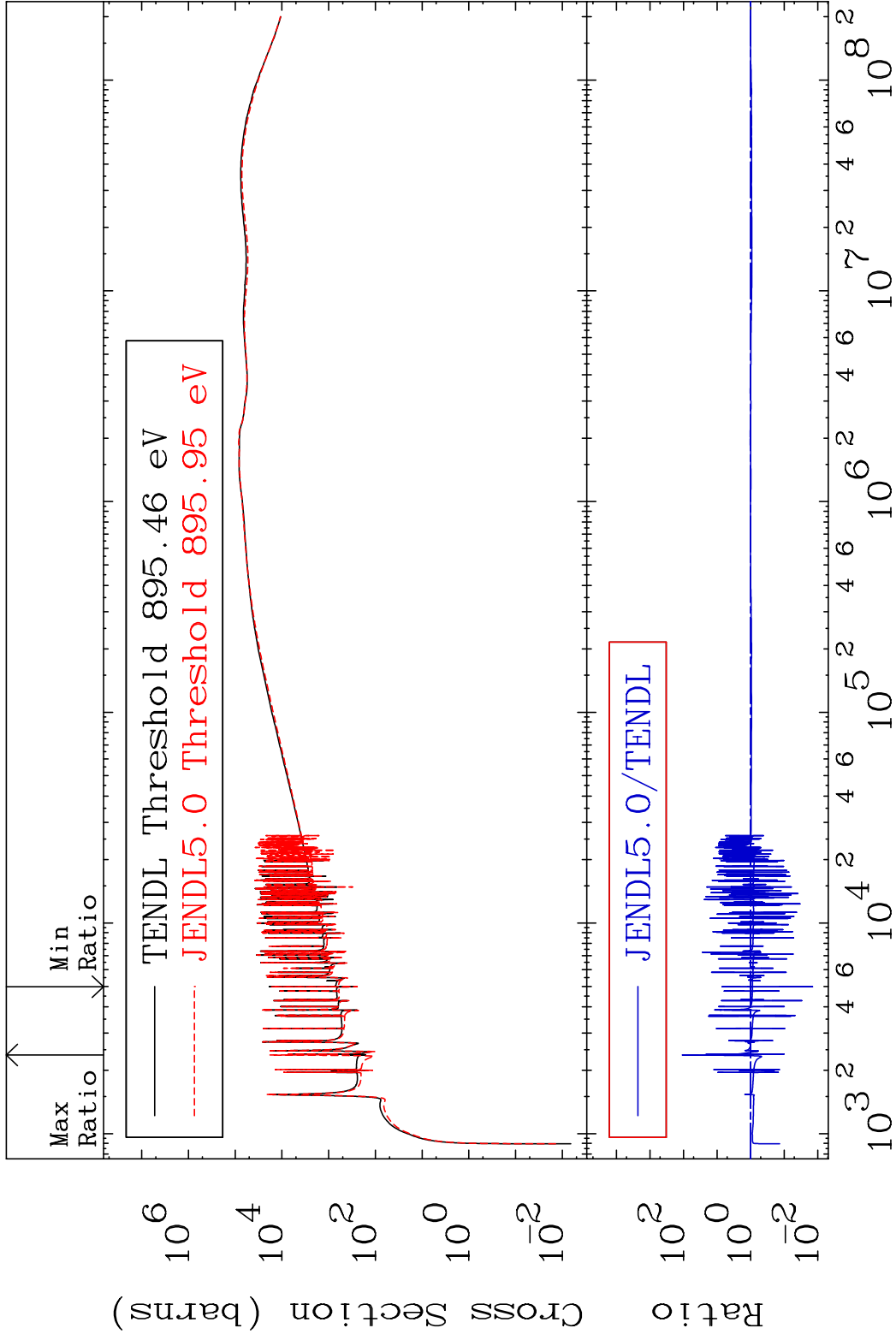
47 Incident Energy (eV) 40-Zr-91

MAT 4028

Dpa elastic (mt2)

40-Zr-91

Cross Section -98.56 To 9999. %

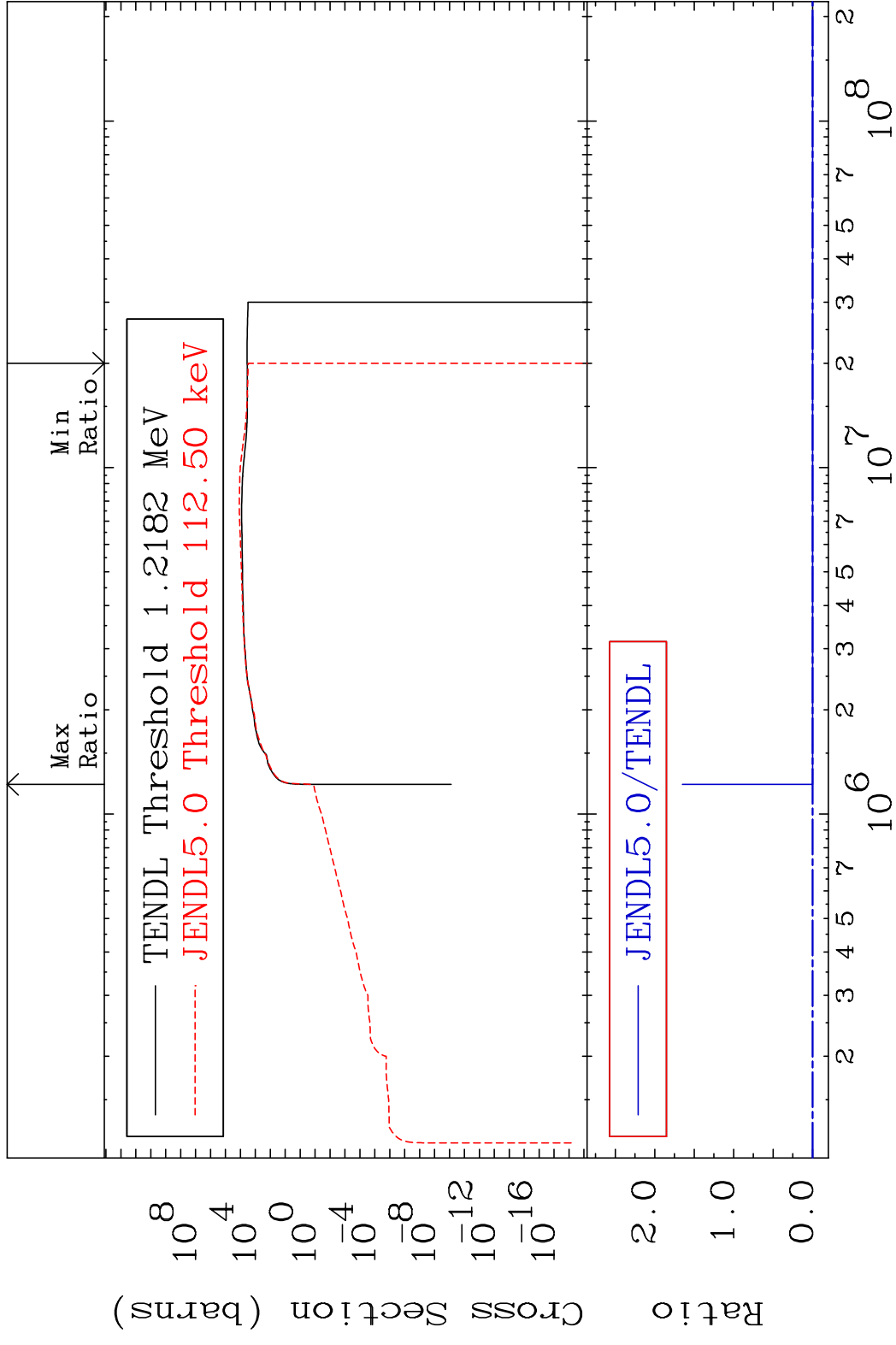


48

Incident Energy (eV)

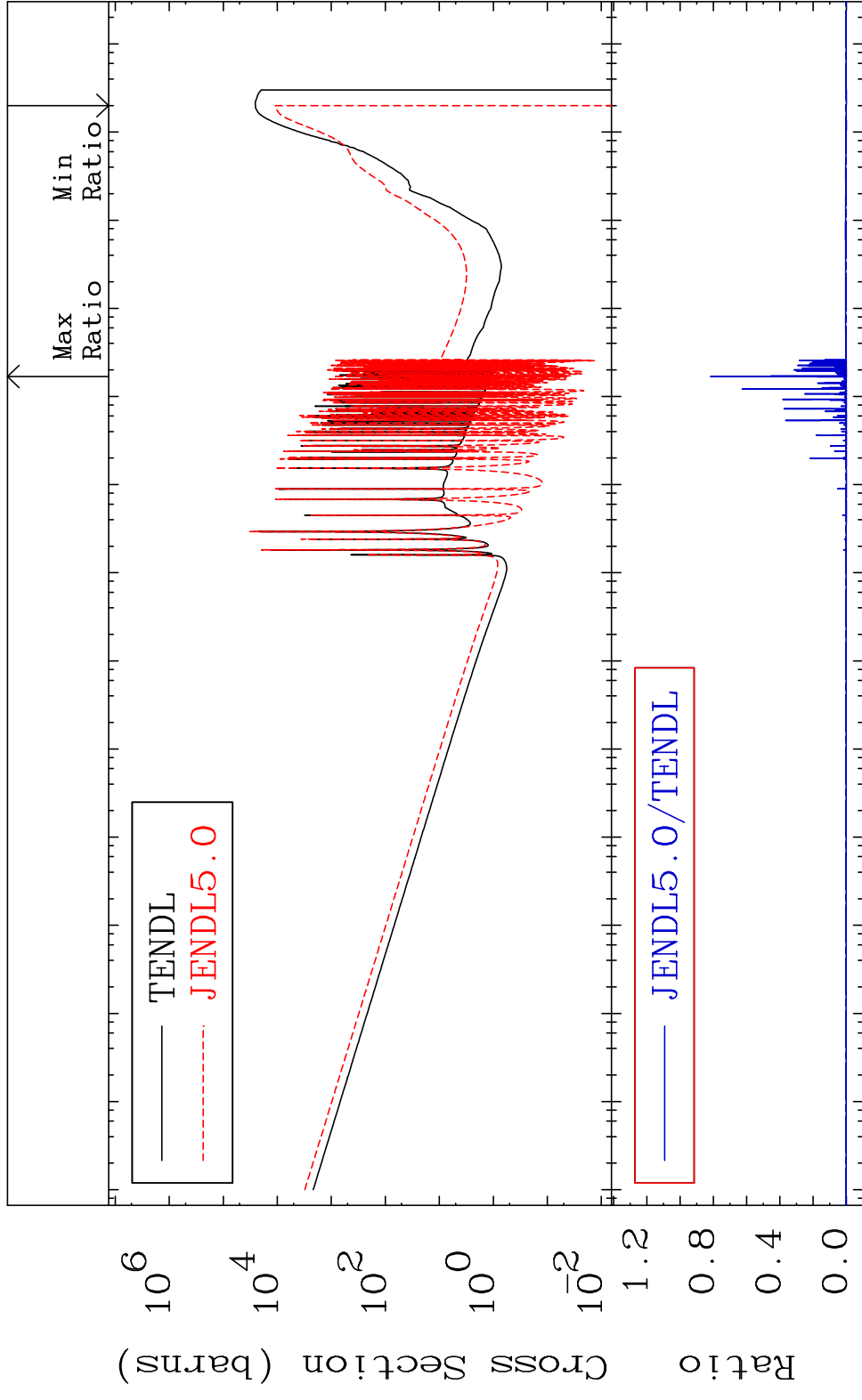
40-Zr-91

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



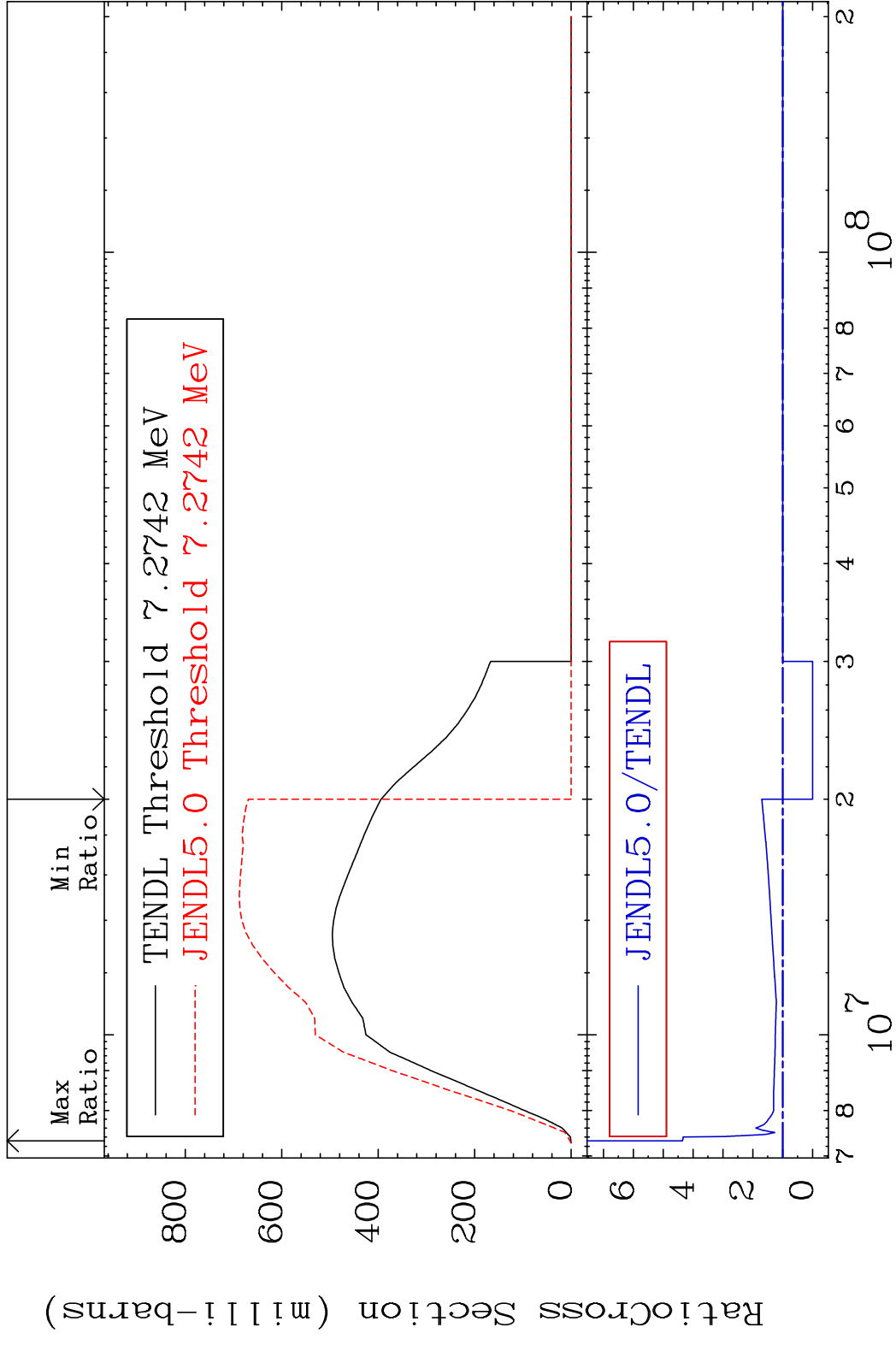
49 Incident Energy (eV) 40-Zr-91

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

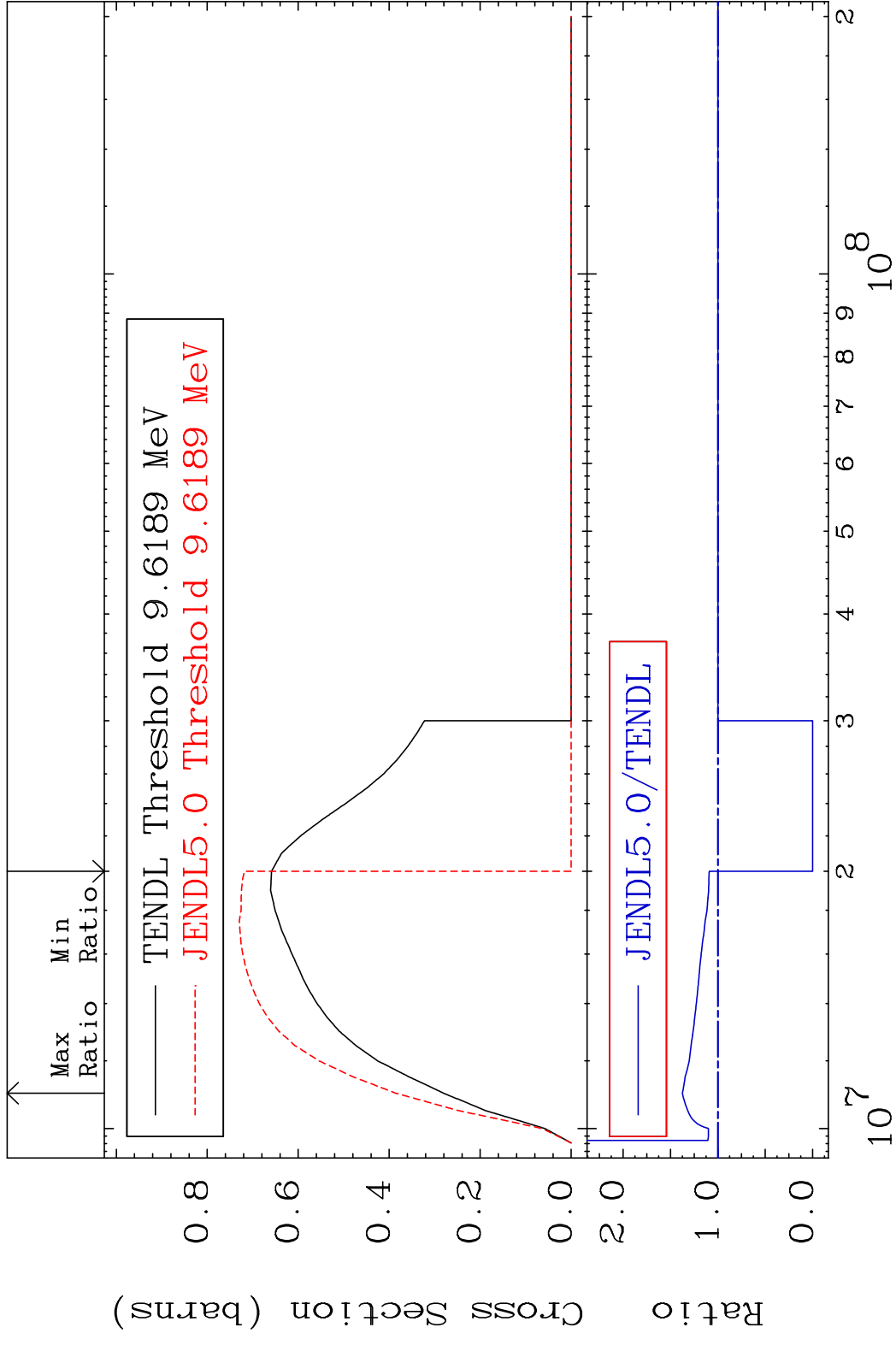


50 Incident Energy (eV) 40-Zr-91

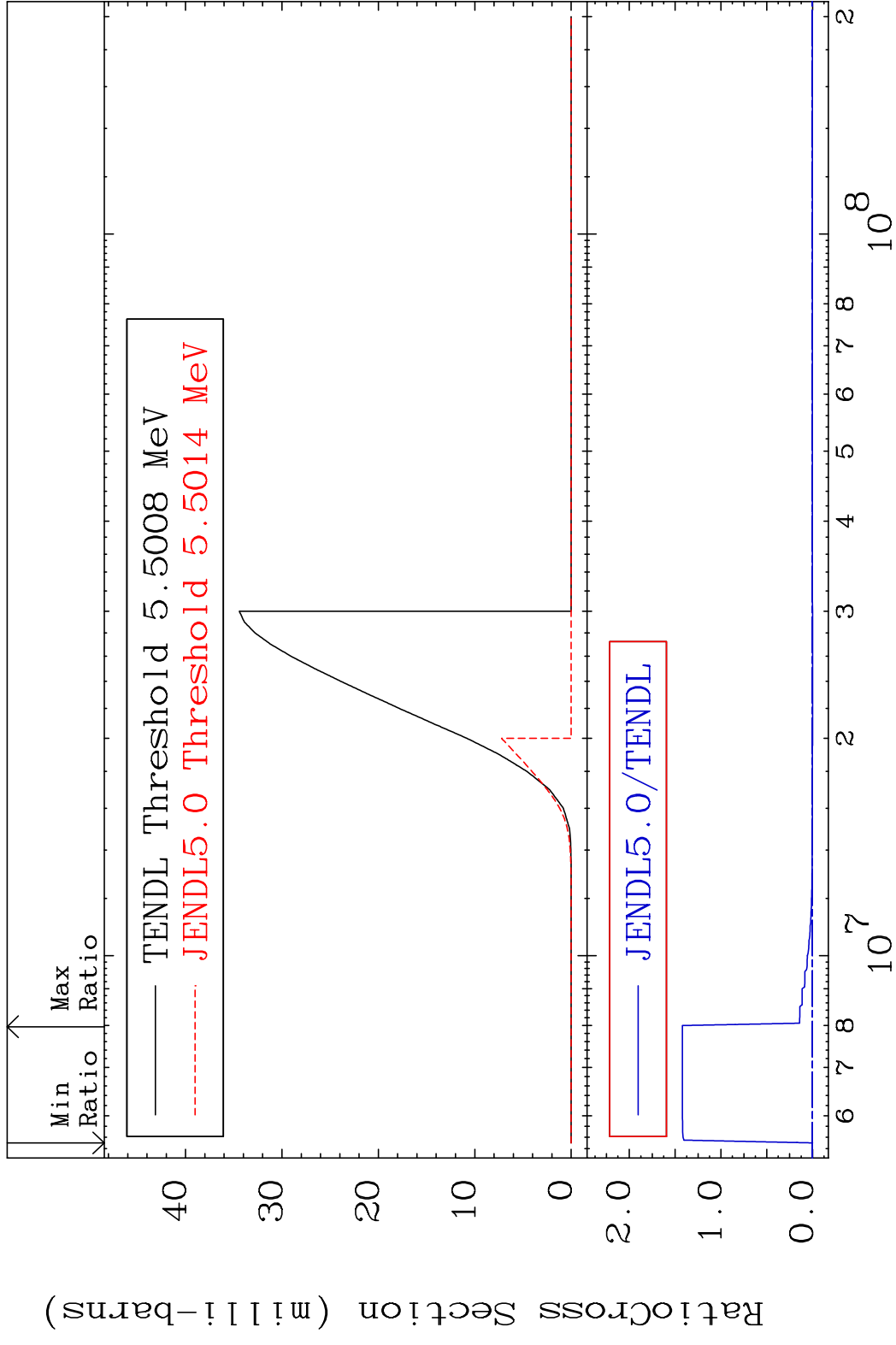
MAT 4028 (n,2n):40-Zr-90g 40-Zr-91
 Radionuclide Production Cross Section 335.8 %



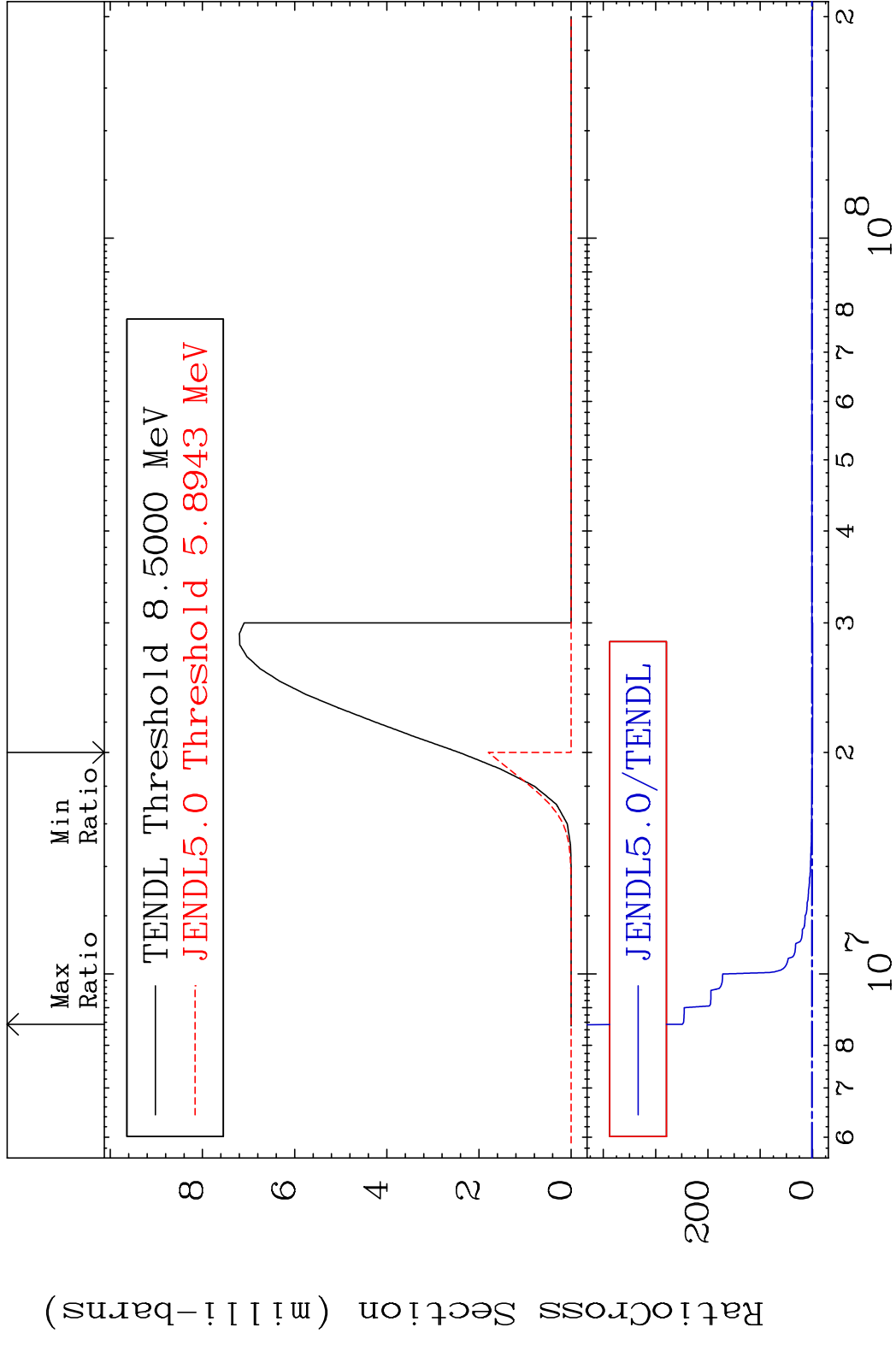
MAT 4028 (n,2n):40-Zr-90m3 40-Zr-91
 Radionuclide Production Cross Section 37.49 %



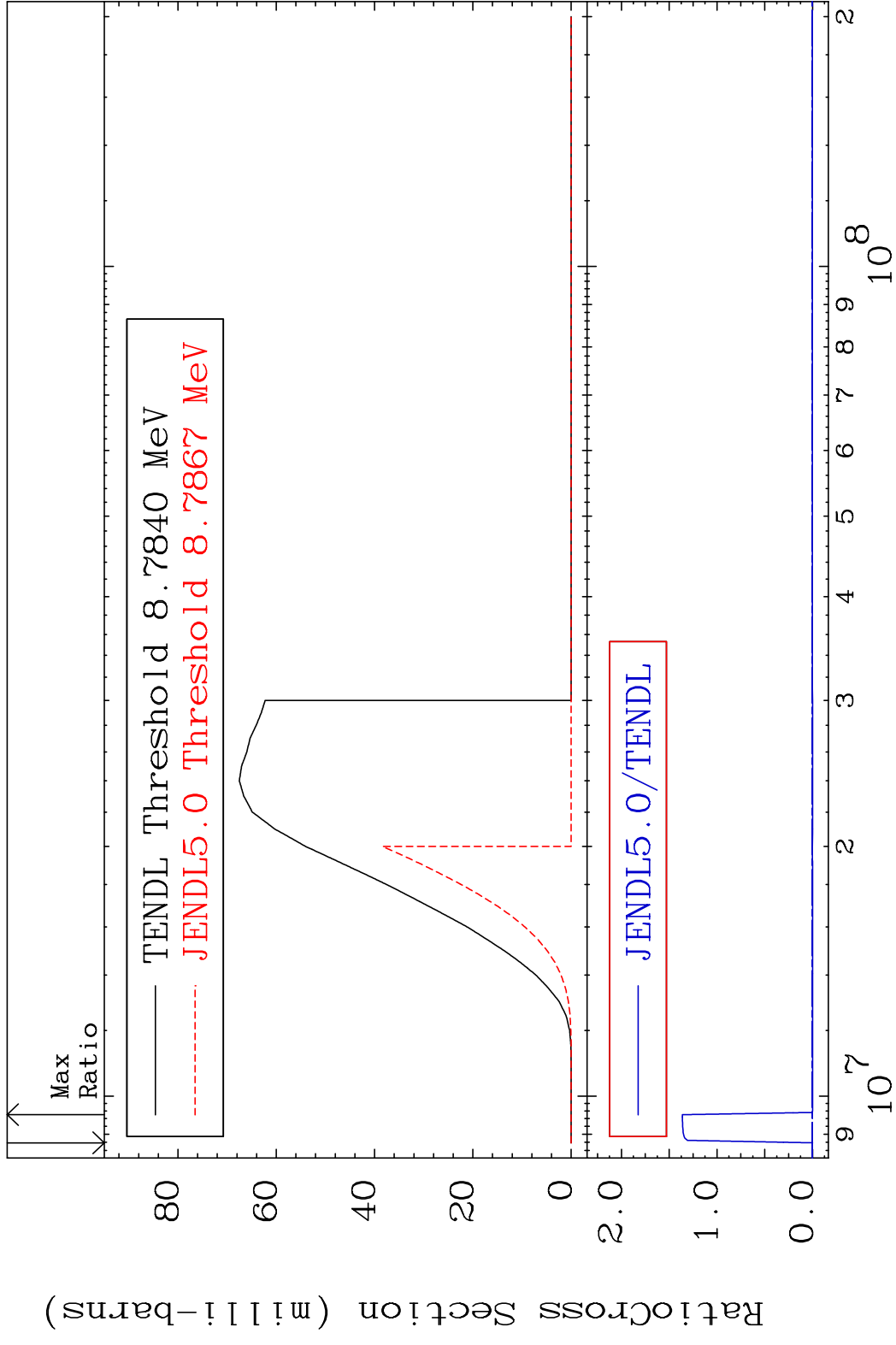
MAT 4028 (n, n') α :38-Sr-87g 40-Zr-91
 Radionuclide Production Cross Section Ratio



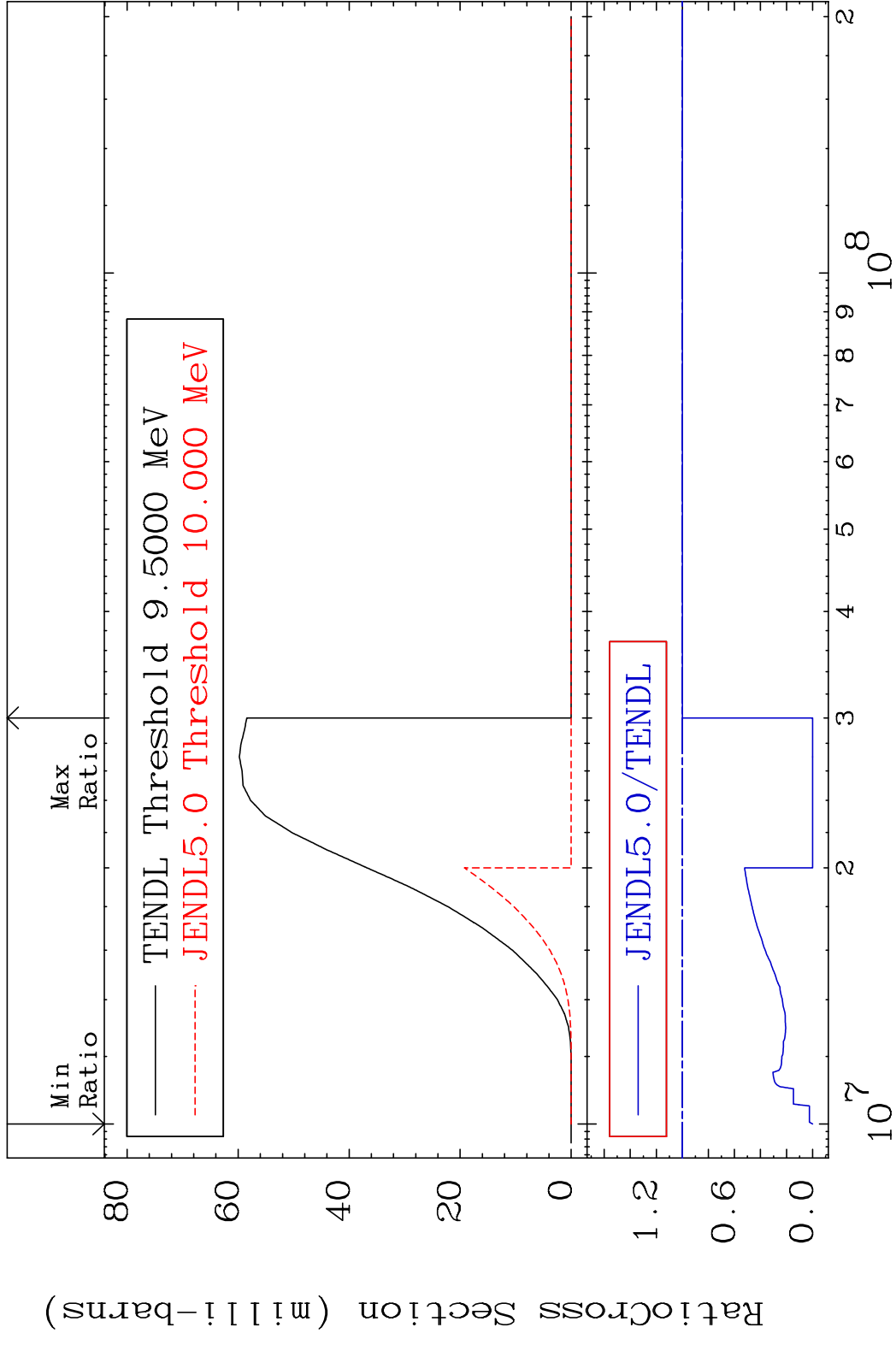
MAT 4028 (n, n') α :38-Sr-87m1 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %



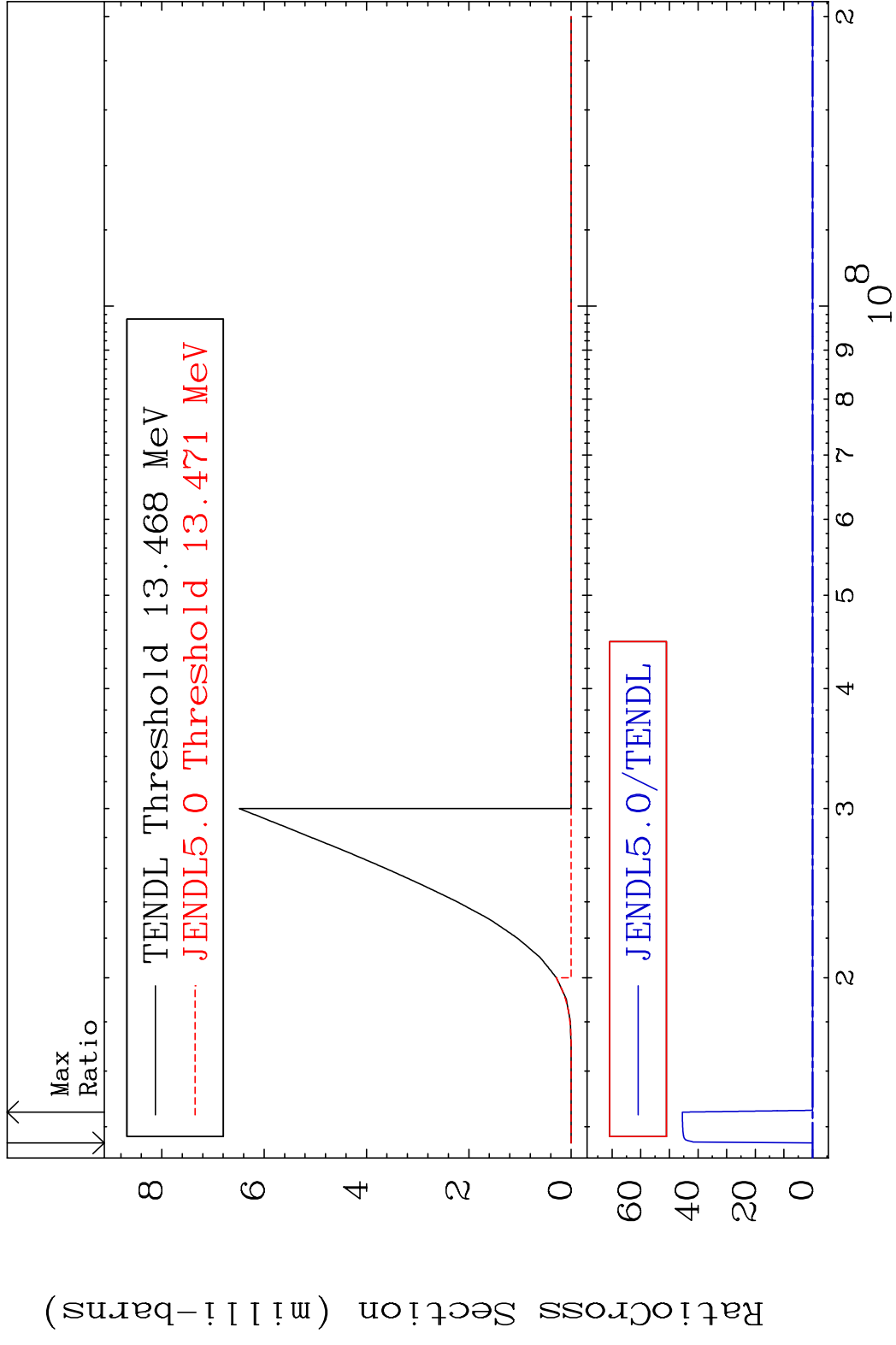
MAT 4028 (n, n') p:39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section 100.00 dth 9999. %

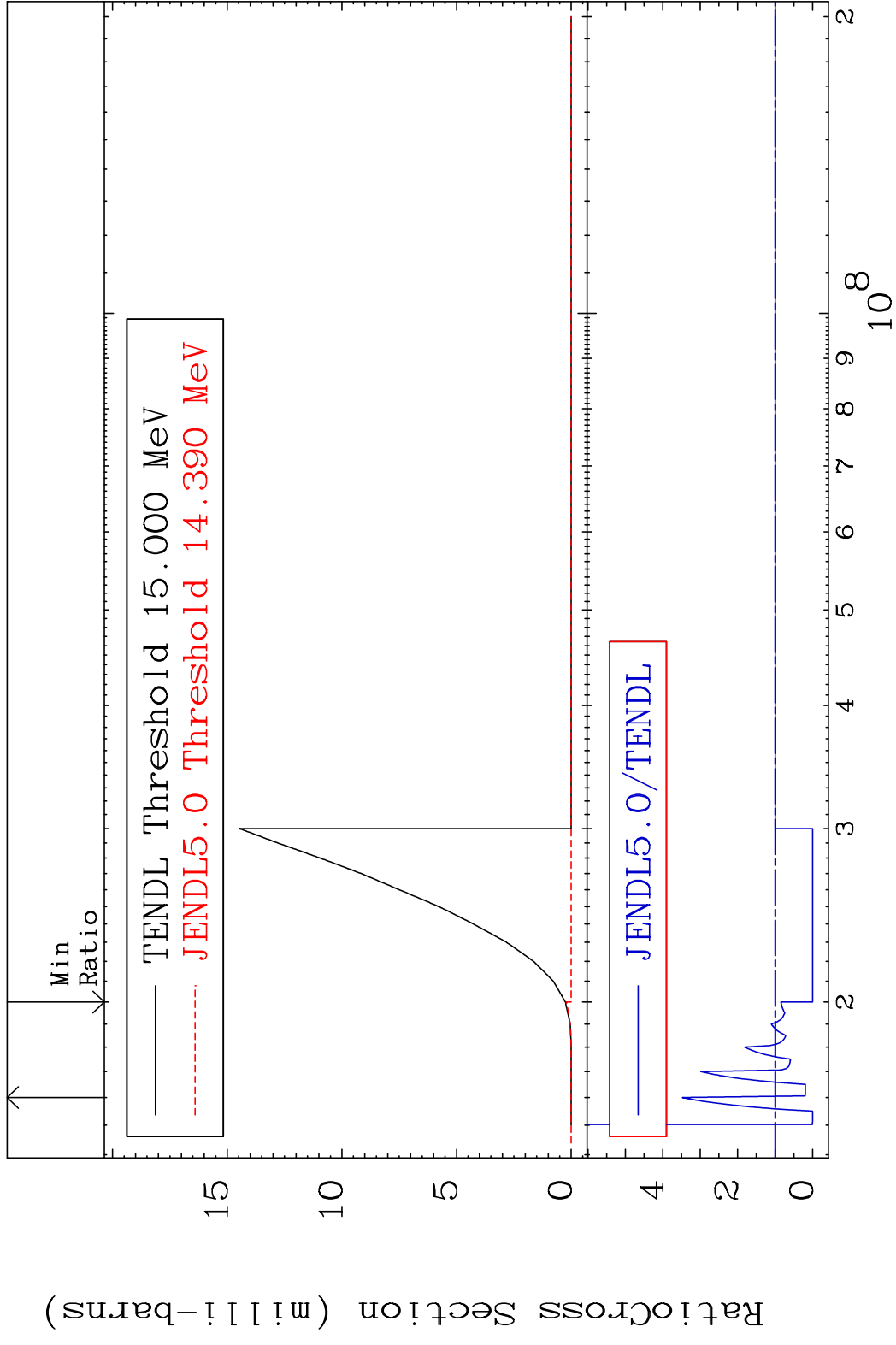


55 Incident Energy (eV) 40-Zr-91

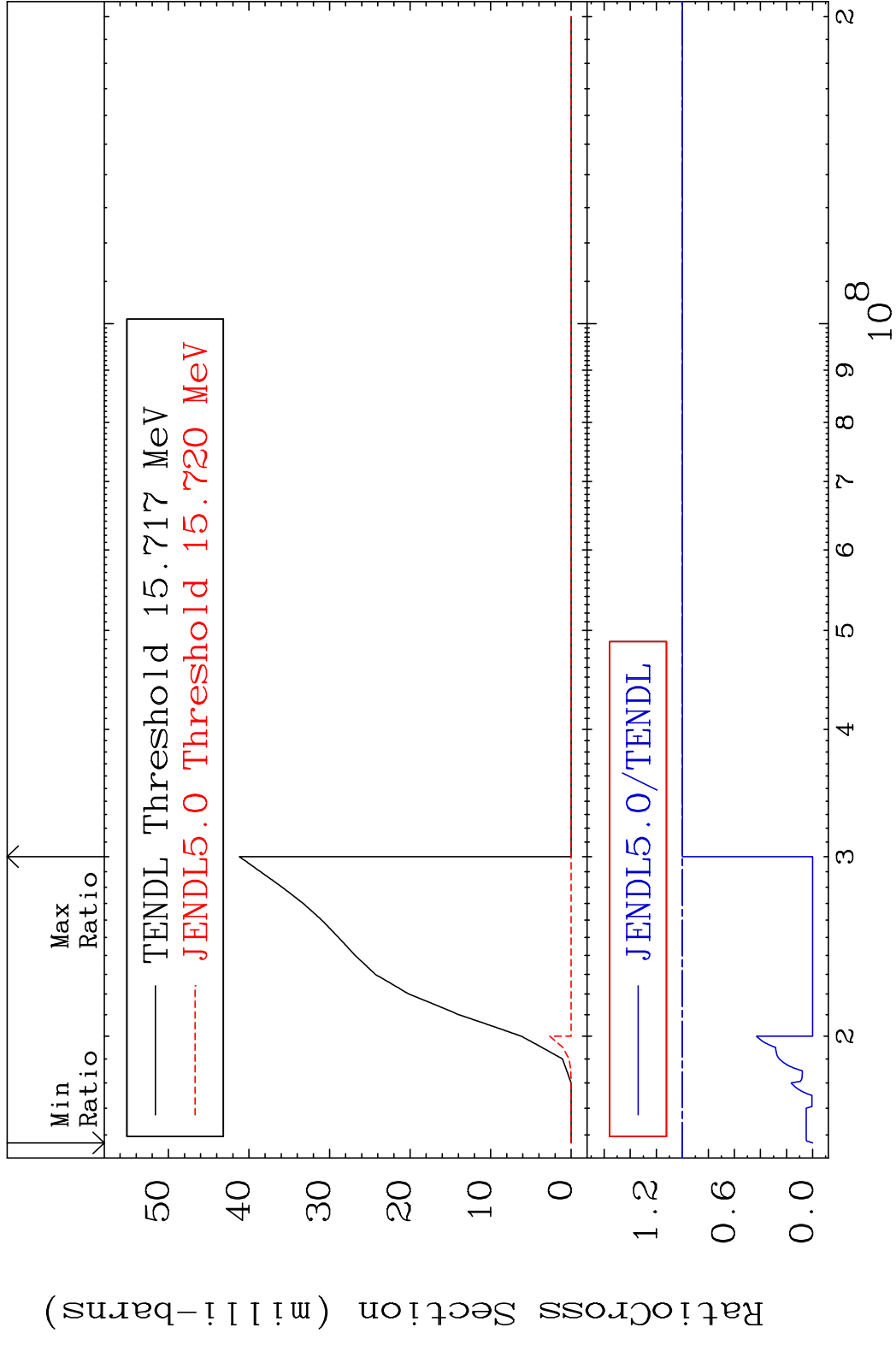


MAT 4028 (n, n') d:39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section to 9999. %

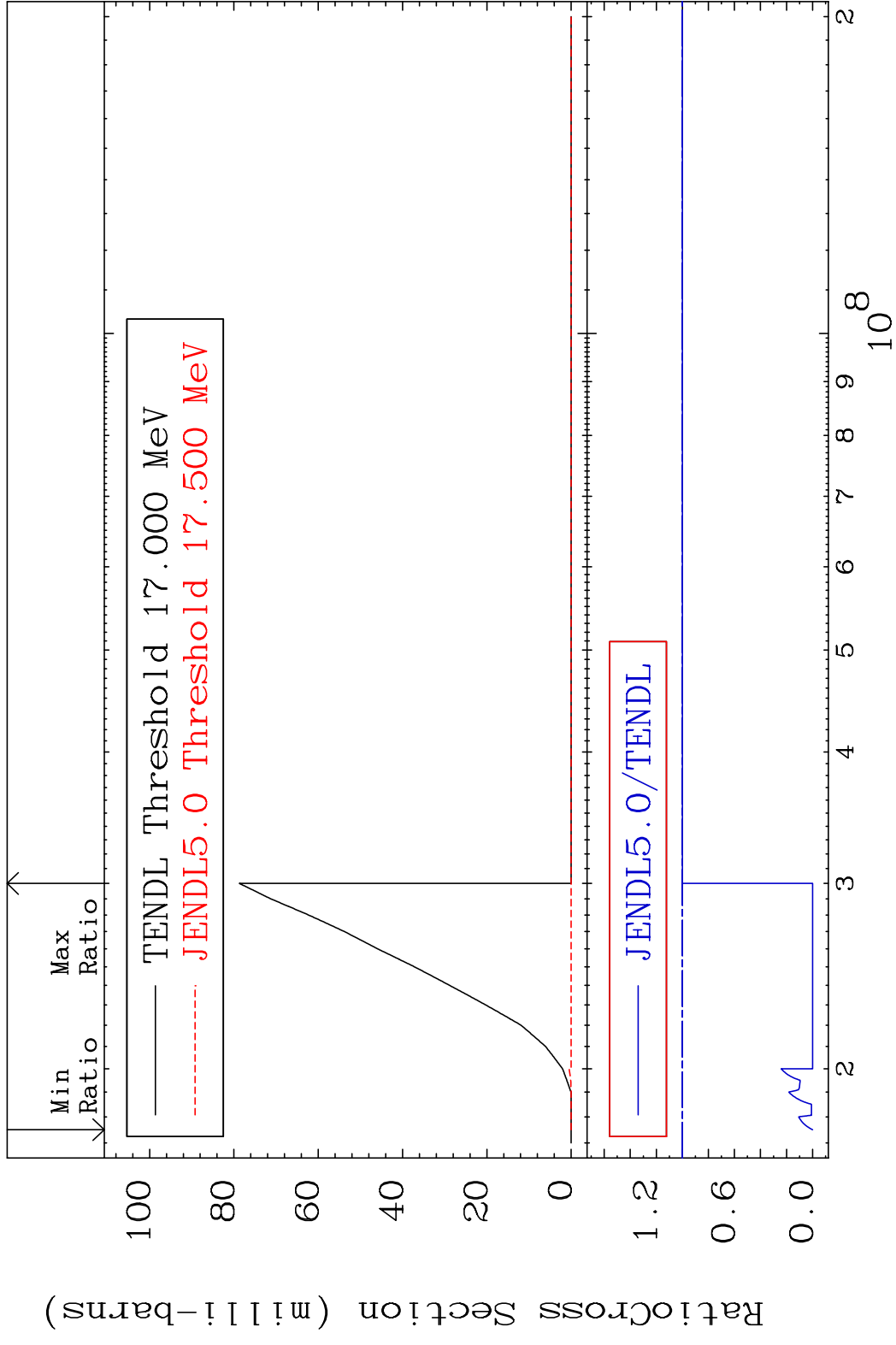




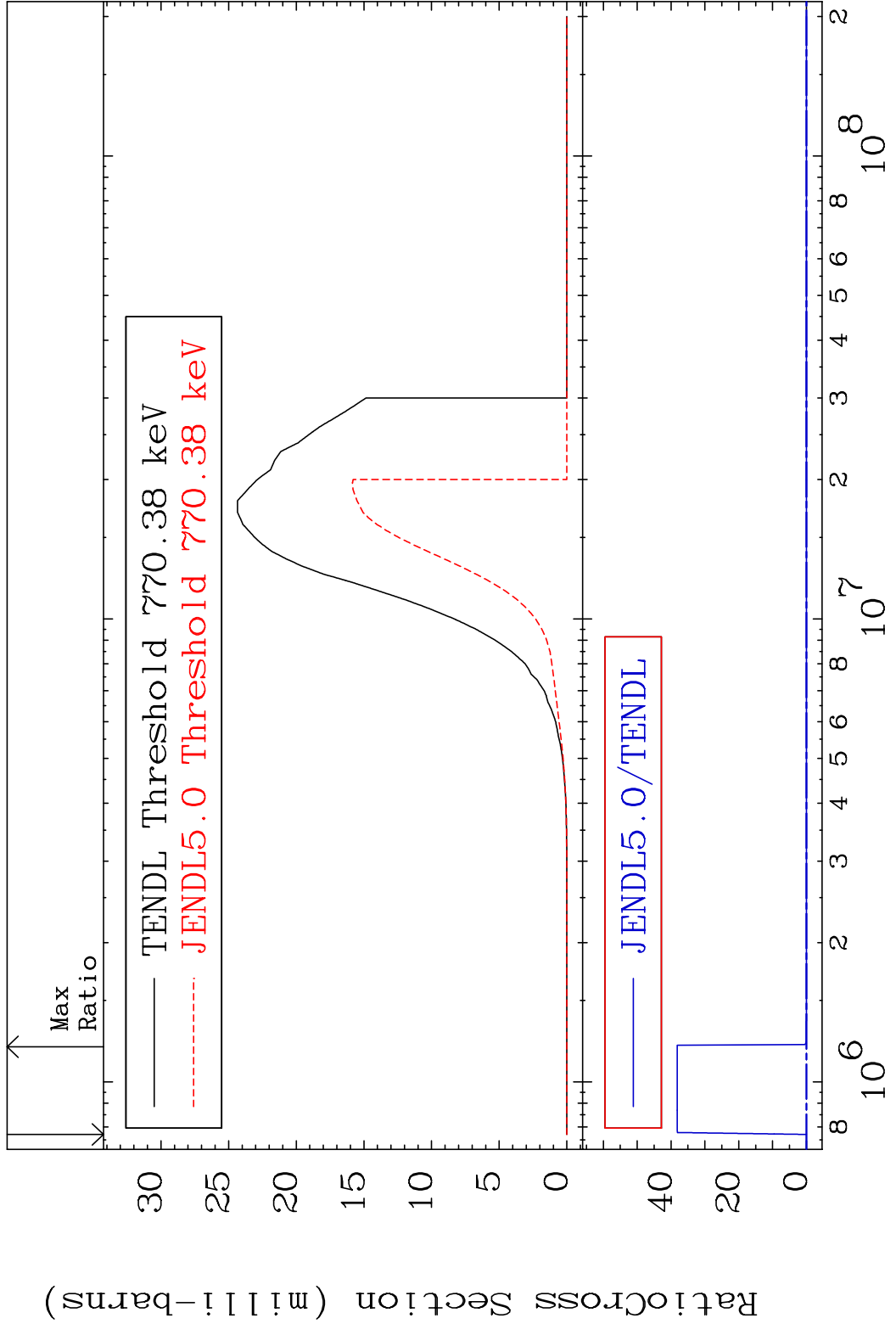
MAT 4028 (n,2n) p:39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section 180.0 mb 0.000 %



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

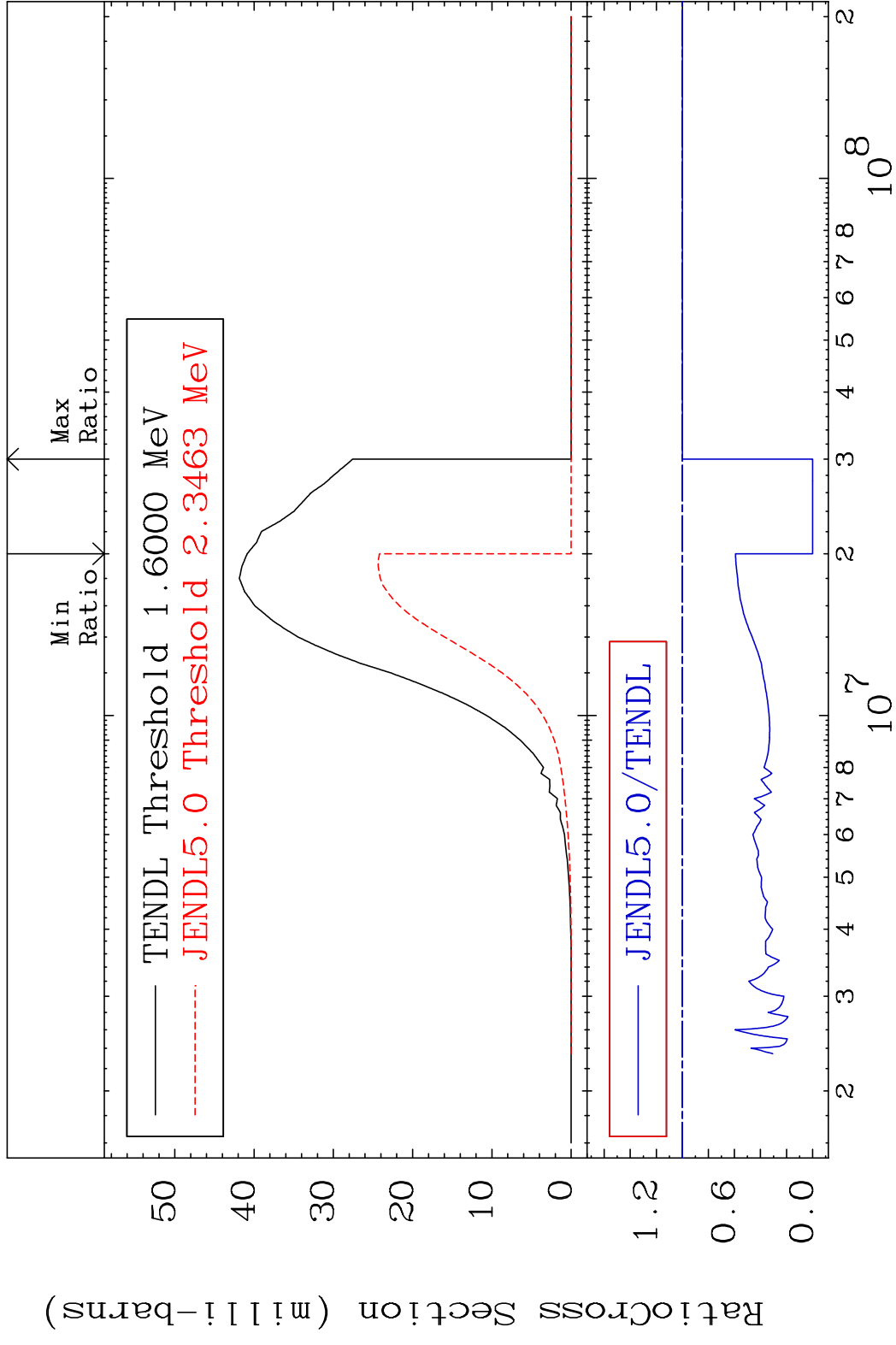


MAT 4028 (n,p):39-Y -91g 40-Zr-91
 Radionuclide Production Cross Section 100.00 to 9999.00 %

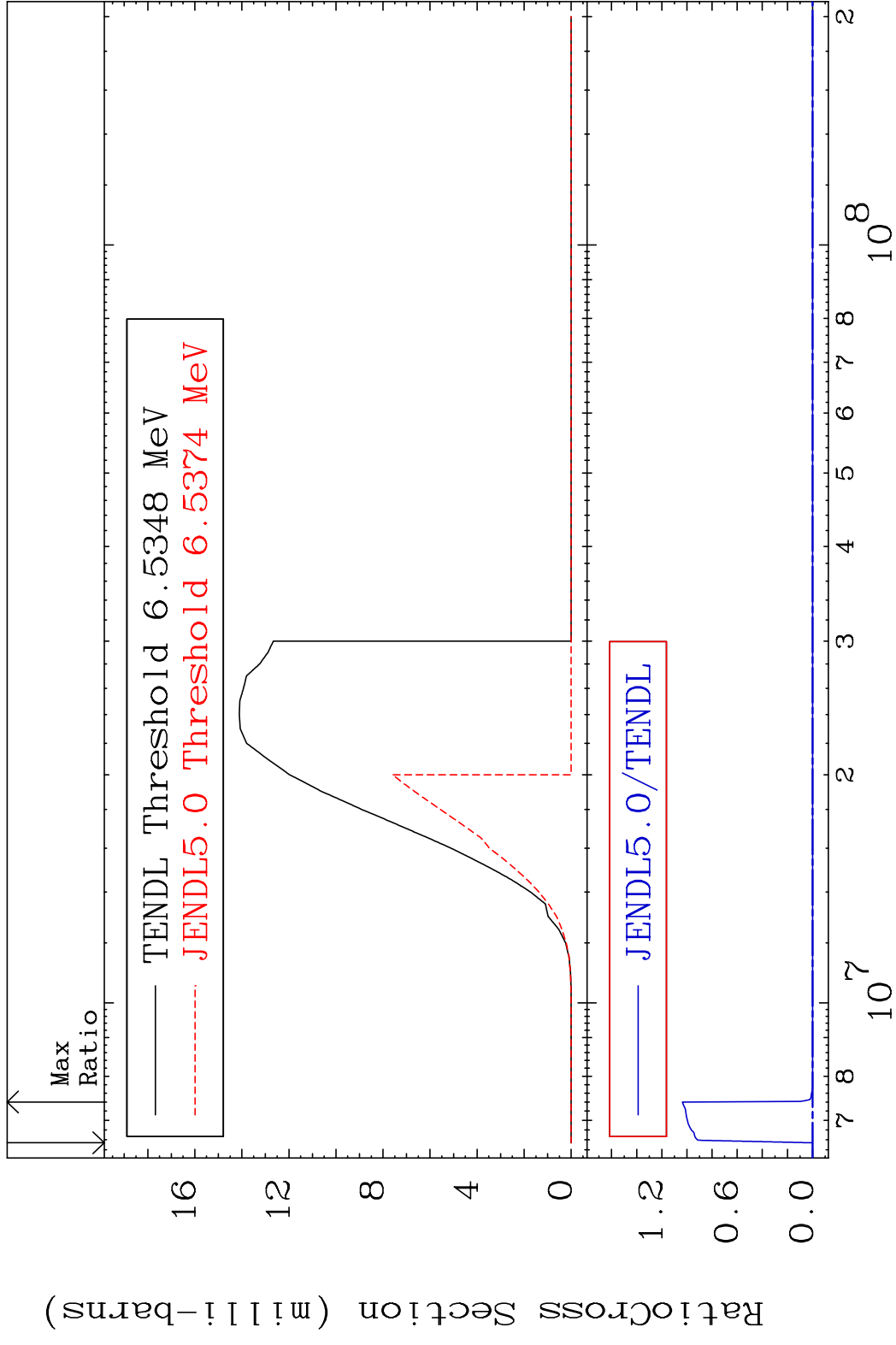


61 Incident Energy (eV) 40-Zr-91

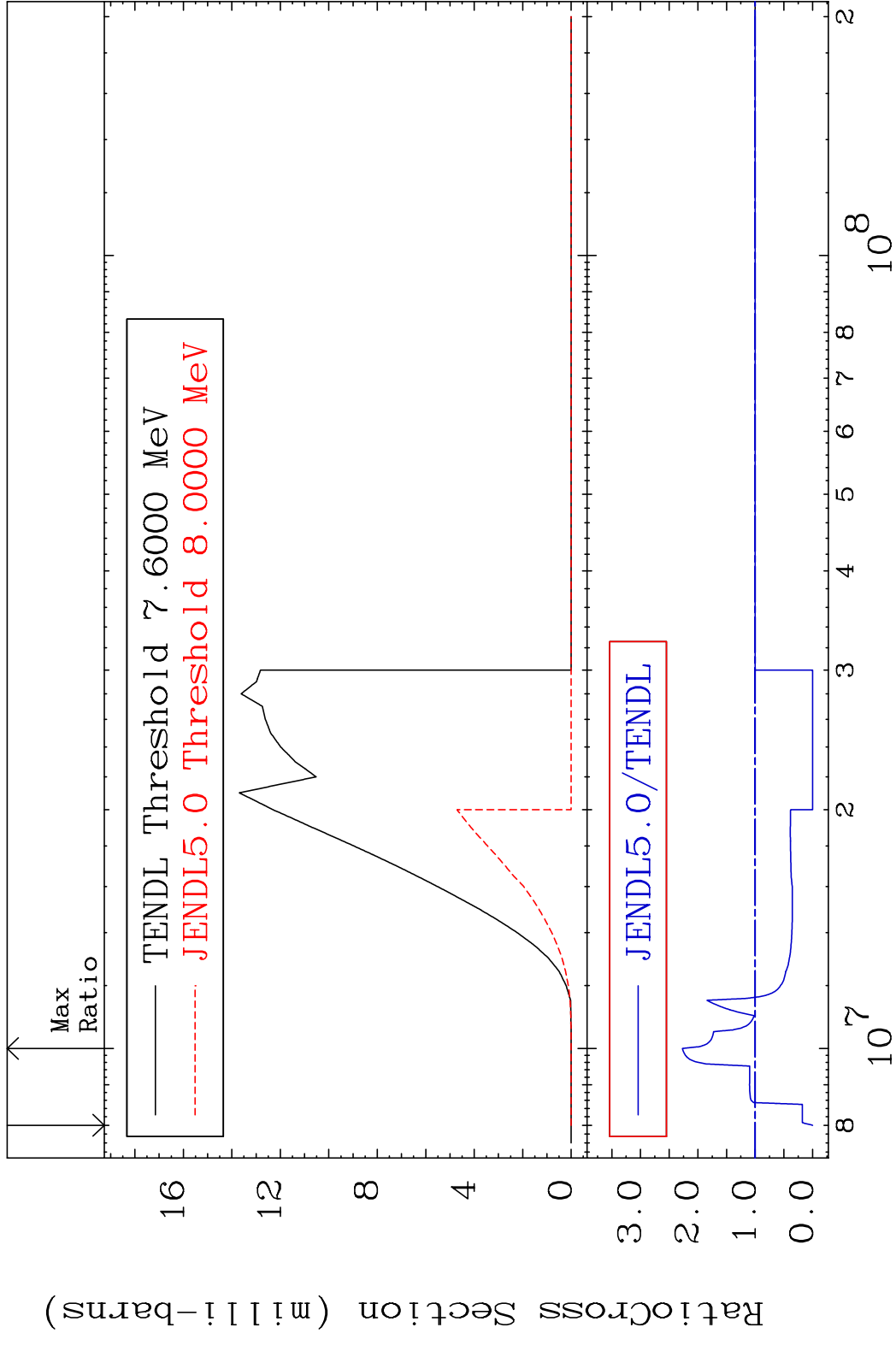
MAT 4028 (n,p):39-Y -91m1 40-Zr-91
 Radionuclide Production Cross Section 1.000 dth 0.000 %



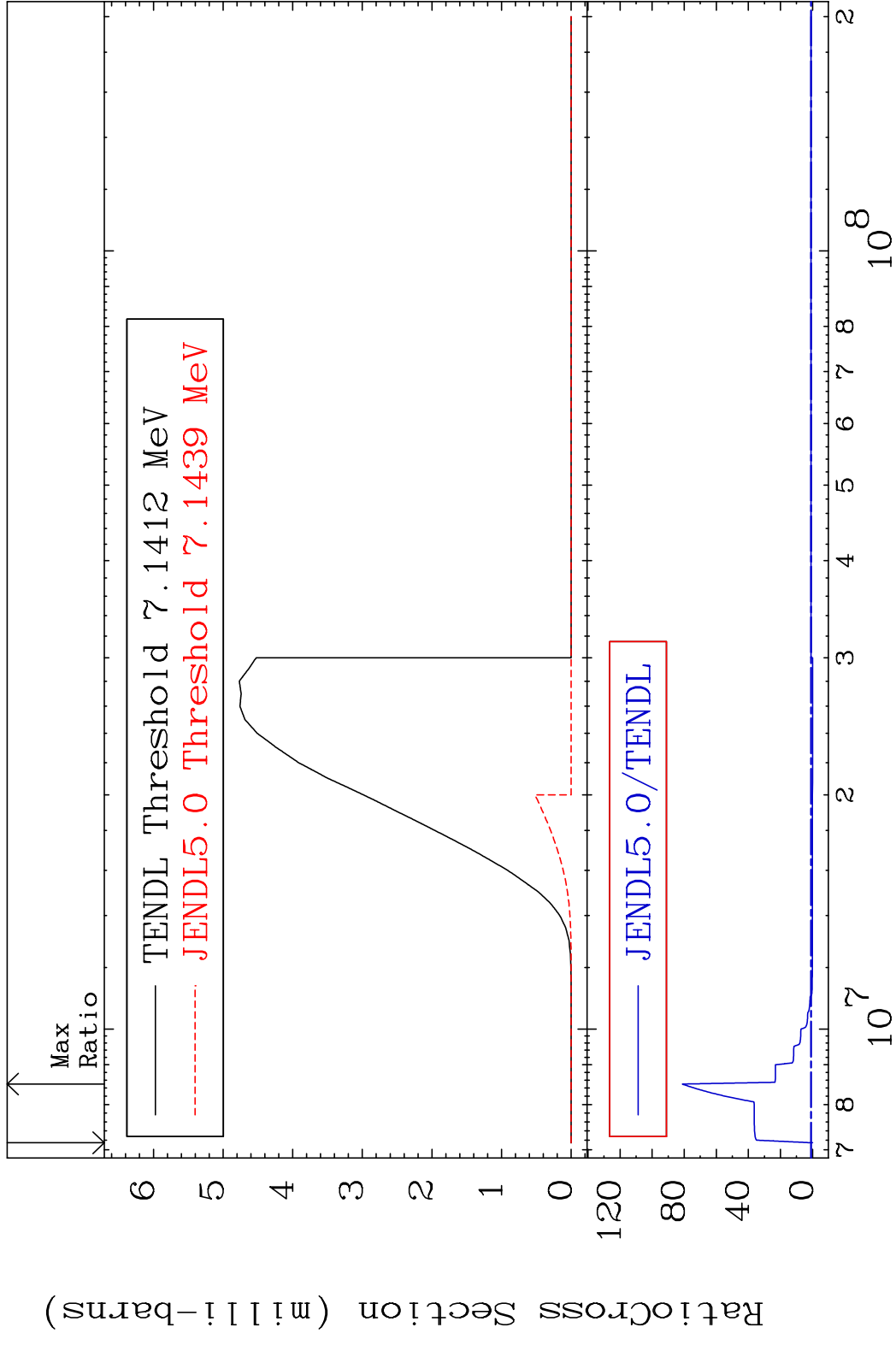
MAT 4028 (n,d):39-Y -90g 40-Zr-91
 Radionuclide Production Cross Section Ratio 9999. %



MAT 4028 (n,d):39-Y -90m2 40-Zr-91
 Radionuclide Production Cross Section 180.0 dth 127.0 %



MAT 4028 (n, t):39-Y -89g 40-Zr-91
 Radionuclide Production Cross Section 8015. %



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

