

Program Complot
(Version 2021-1)

by

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U.S.A.

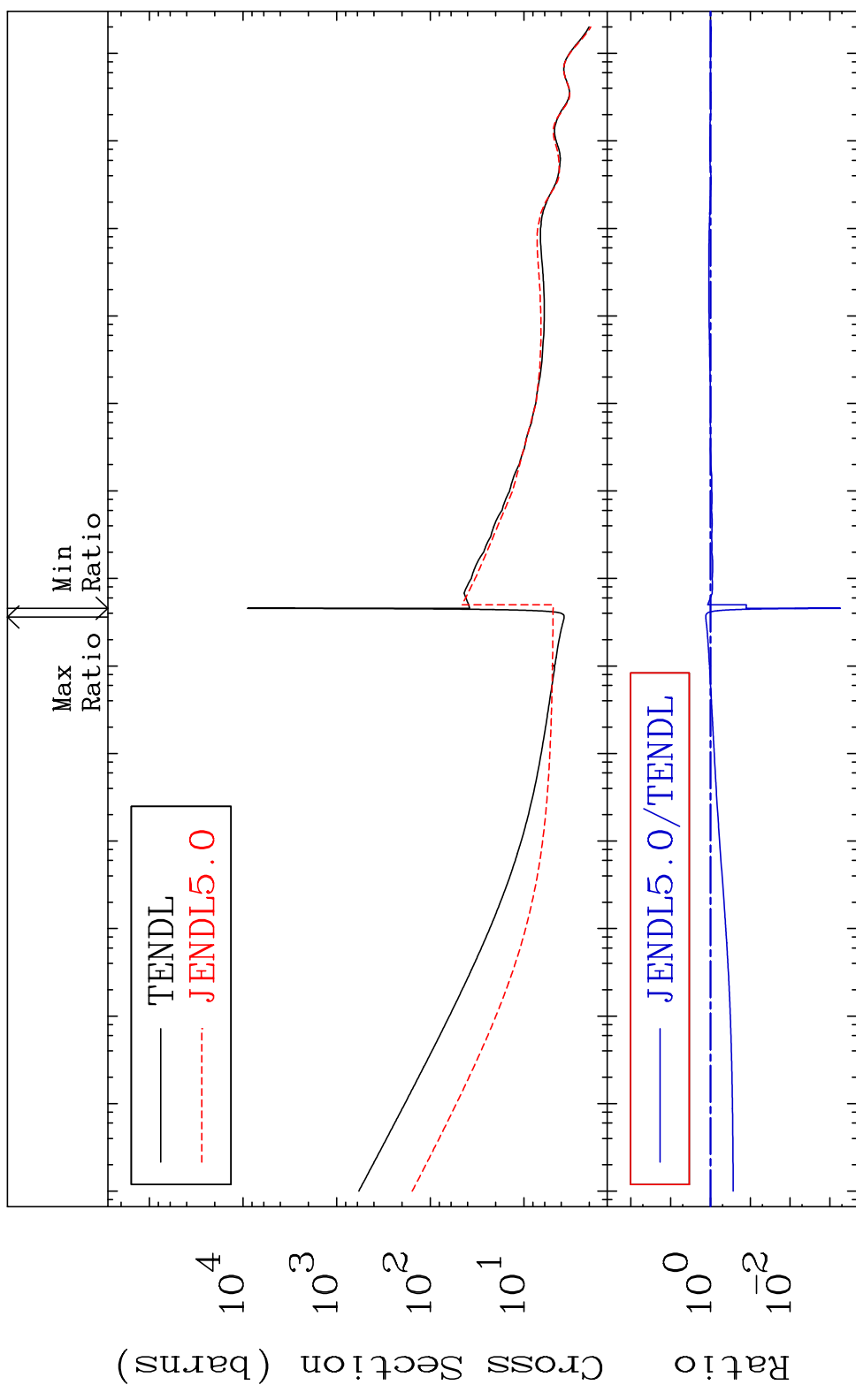
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5058

Total Cross Section
50-Sn-123
-99.95 To 31.50 %



10⁴
10³
10²
10¹
10⁰
10⁻¹
10⁻²
10⁻³
10⁻⁴
10⁻⁵

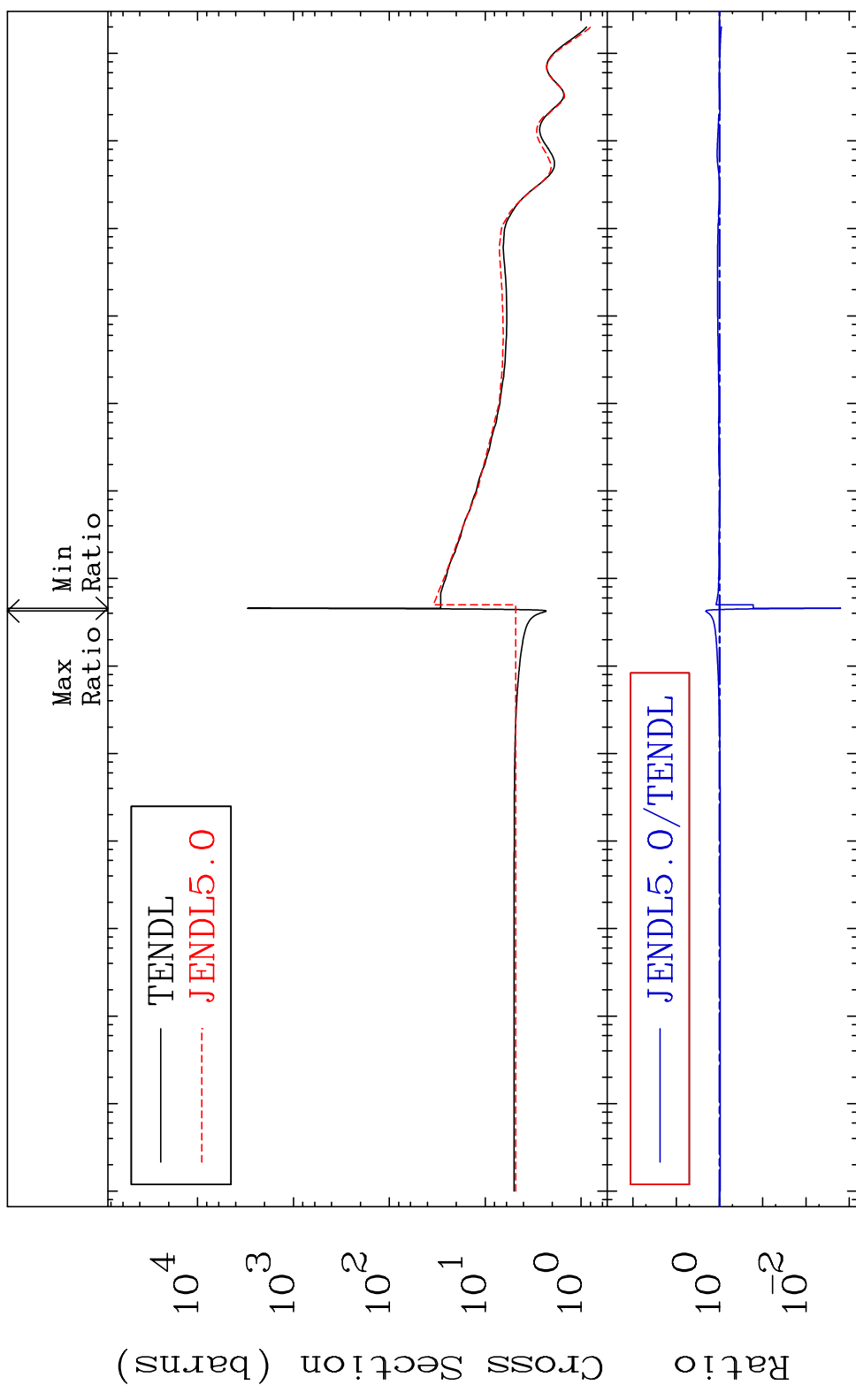
10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

Incident Energy (eV) 50-Sn-123

MAT 5058

Elastic Cross Section -99.84 To 107.2 %

50-Sn-123

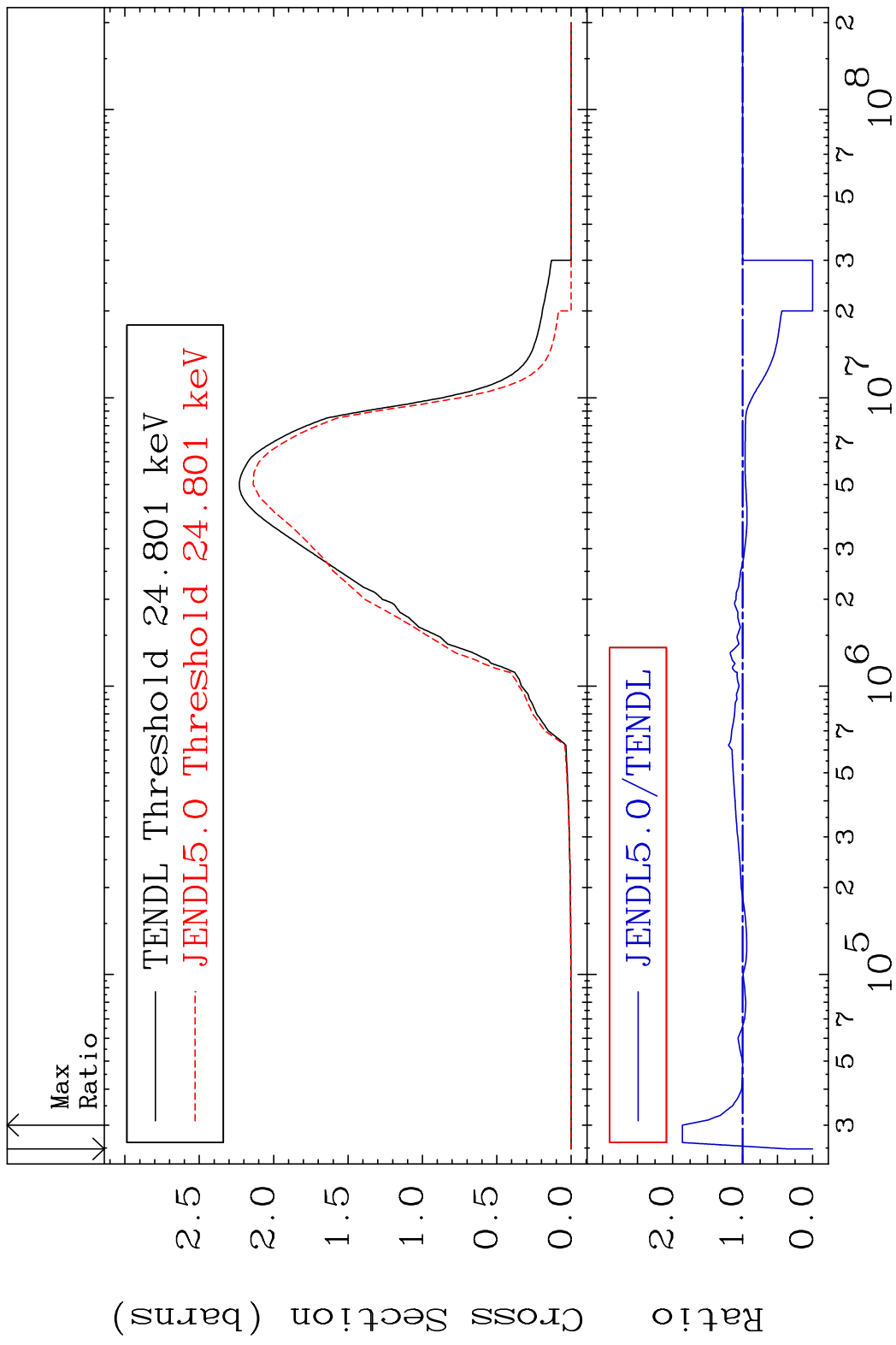


Incident Energy (eV)

2

50-Sn-123

MAT 5058 Inelastic 50-Sn-123
 Cross Section -100.0 To 86.01 %

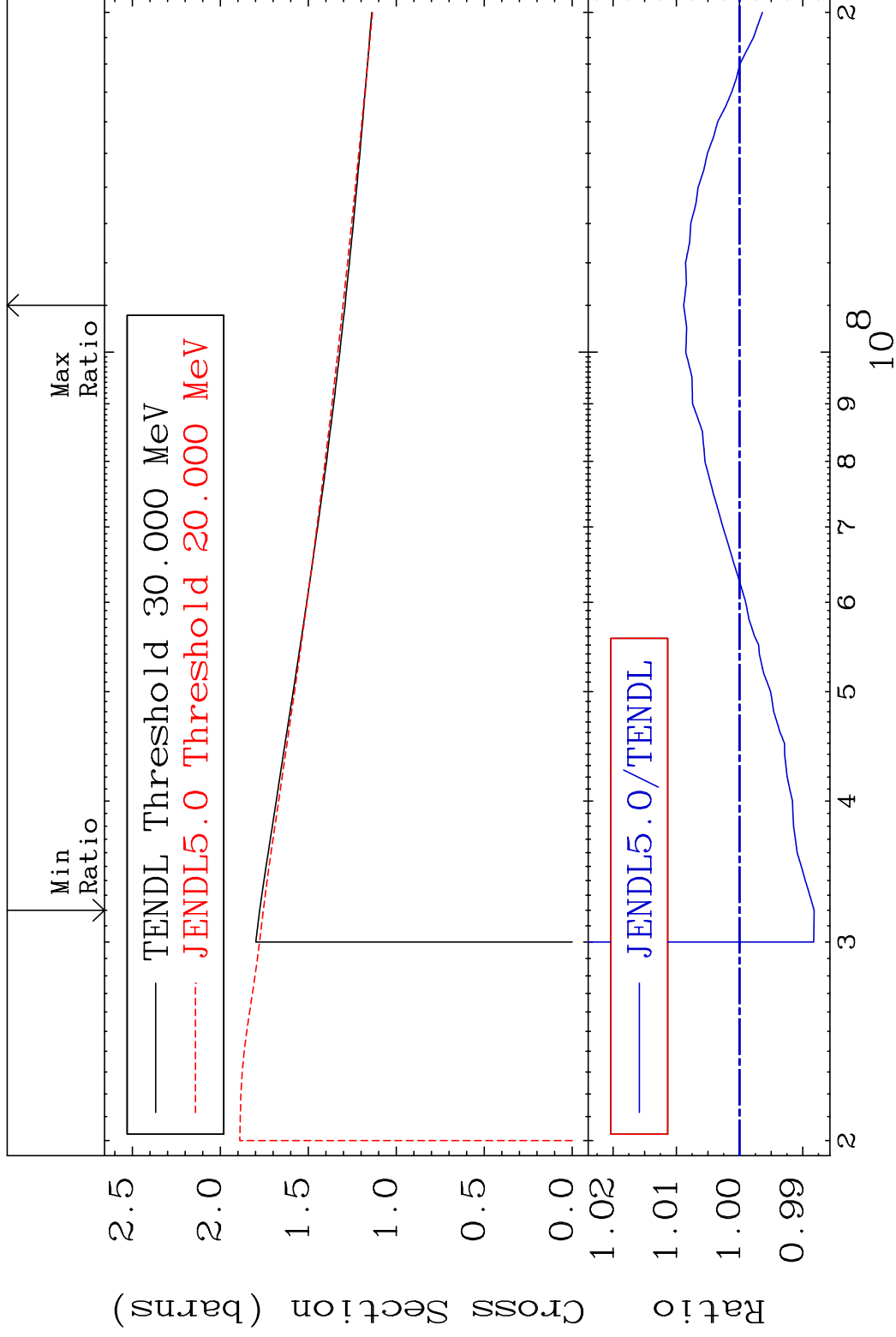


MAT 5058

(n, remainder)

50-Sn-123

Cross Section -1.179 To 0.883 %

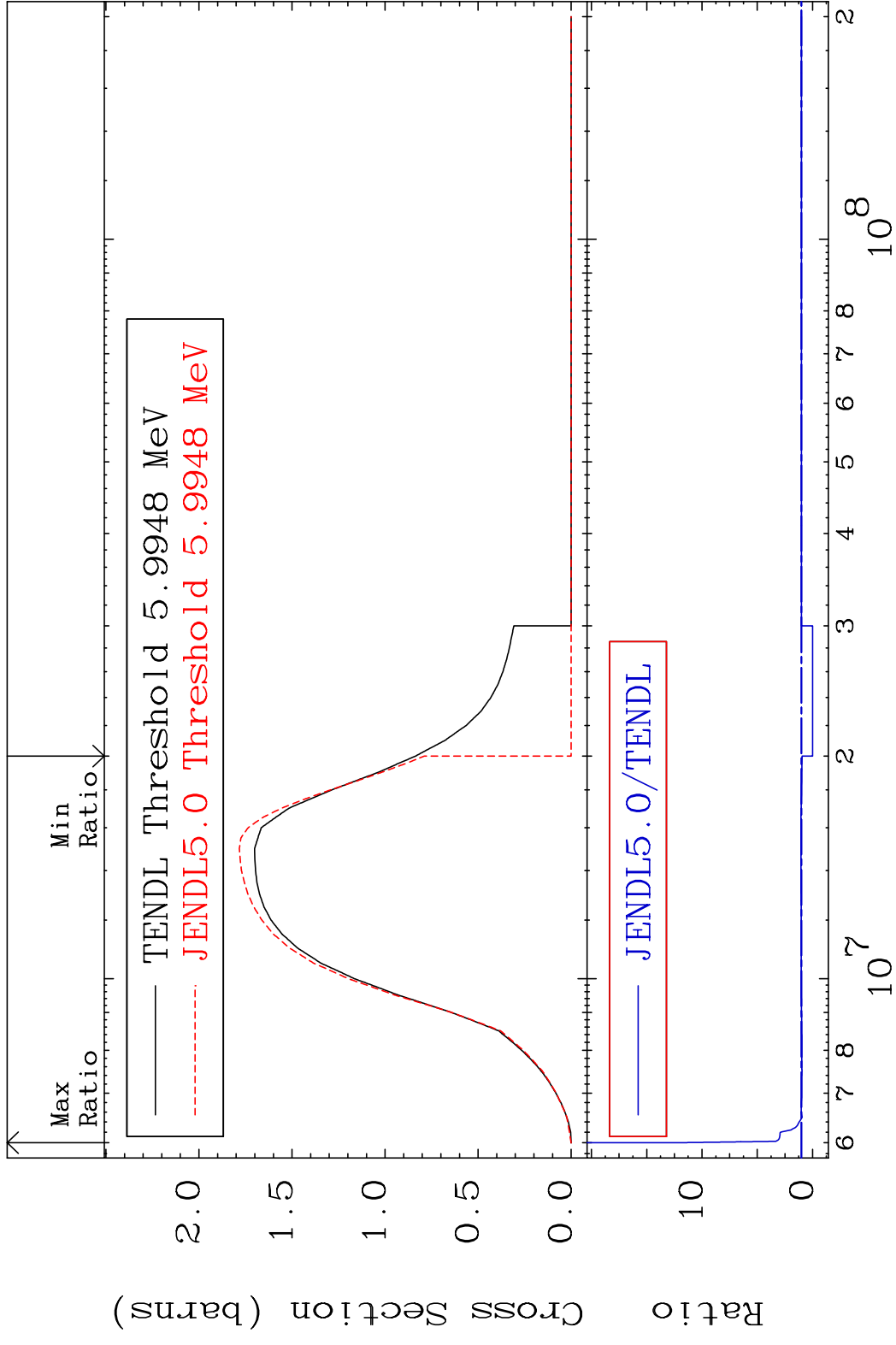


4

Incident Energy (eV)

50-Sn-123

MAT 5058 (n,2n) 50-Sn-123
 Cross Section -100.0 To 1078. %



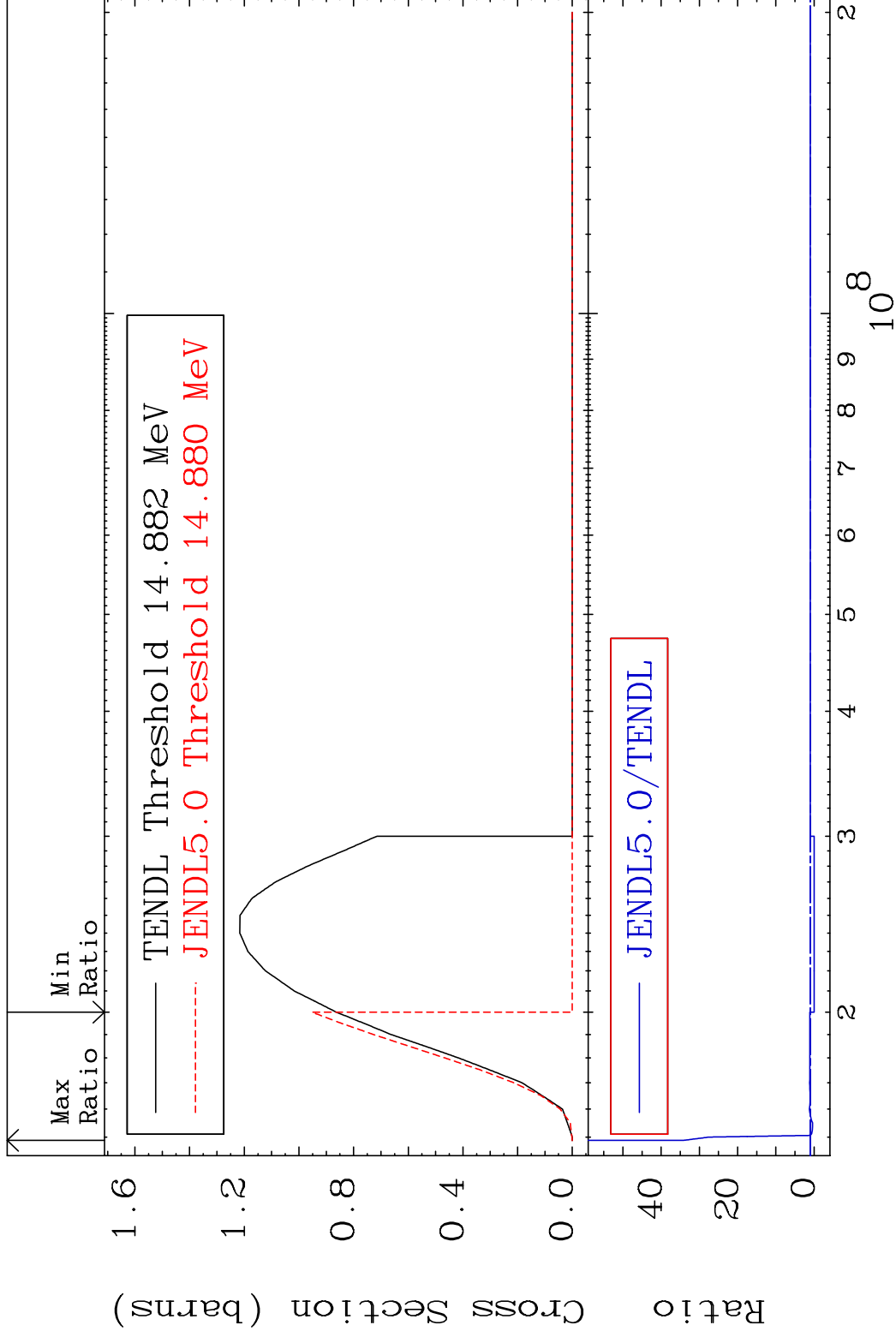
5 Incident Energy (eV) 50-Sn-123

MAT 5058

(n,3n)

50-Sn-123

Cross Section -100.0 To 3312. %

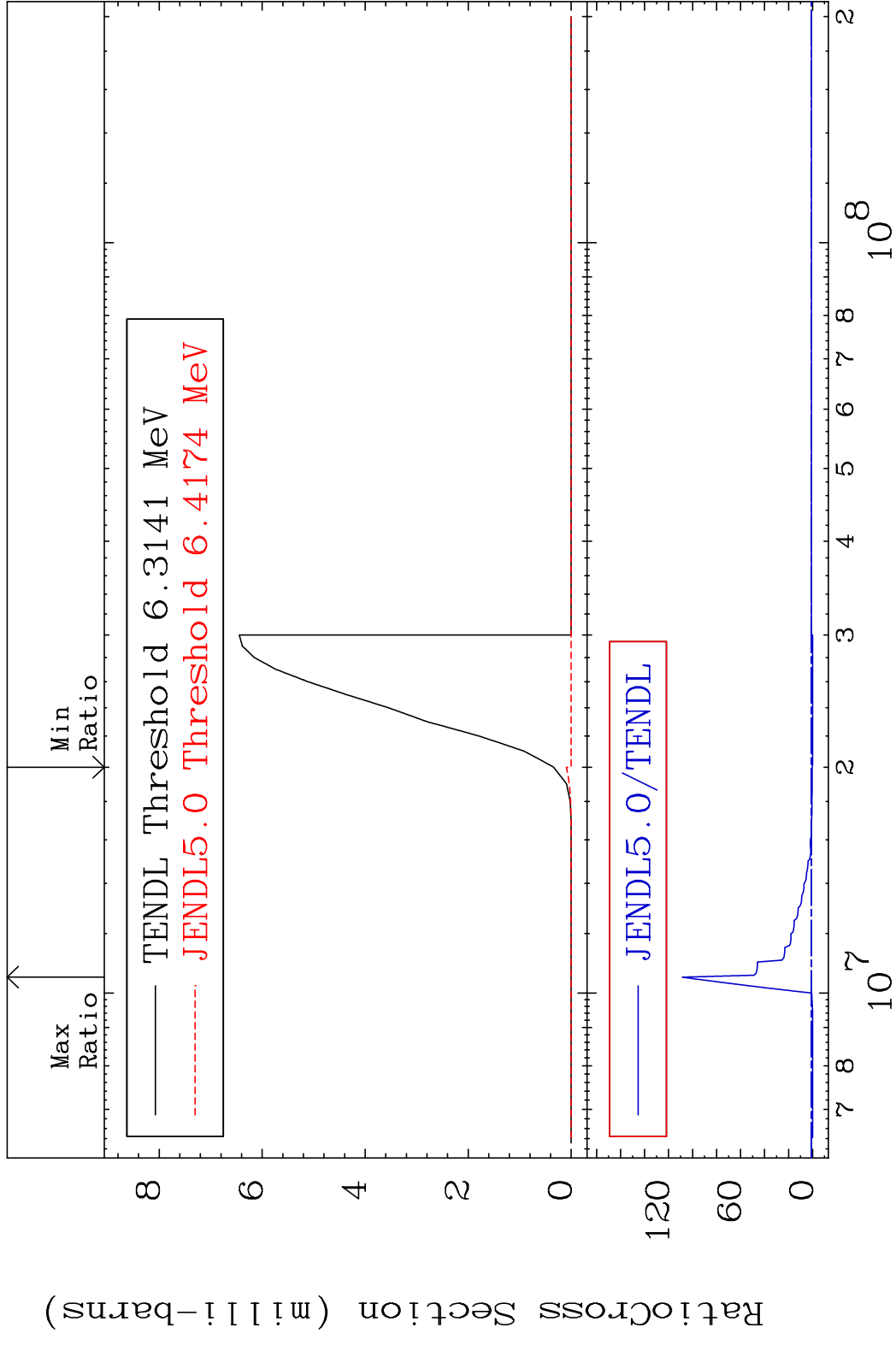


6

Incident Energy (eV)

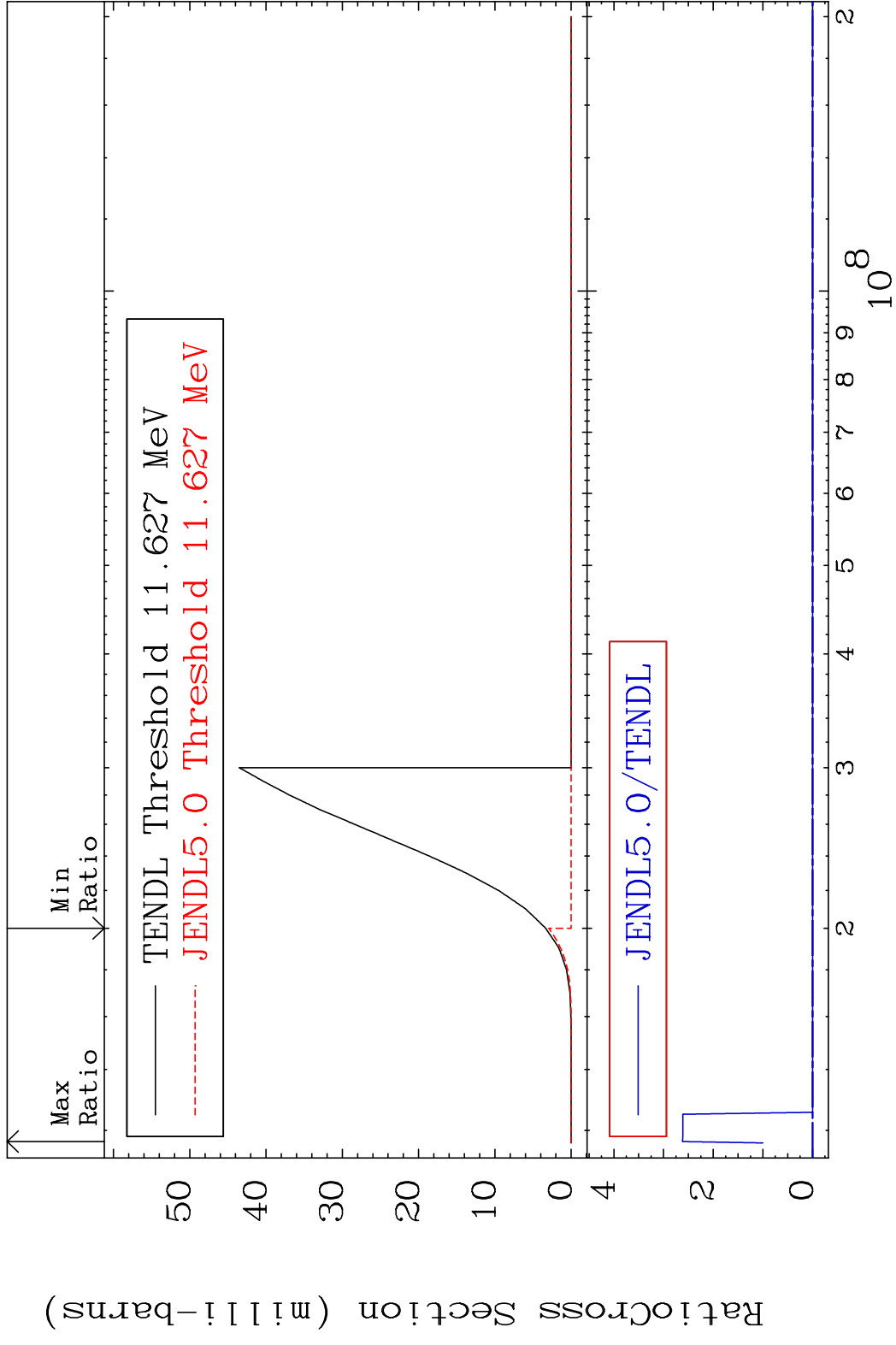
50-Sn-123

MAT 5058 (n, n') α 50-Sn-123
 Cross Section -100.0 To 9999. %

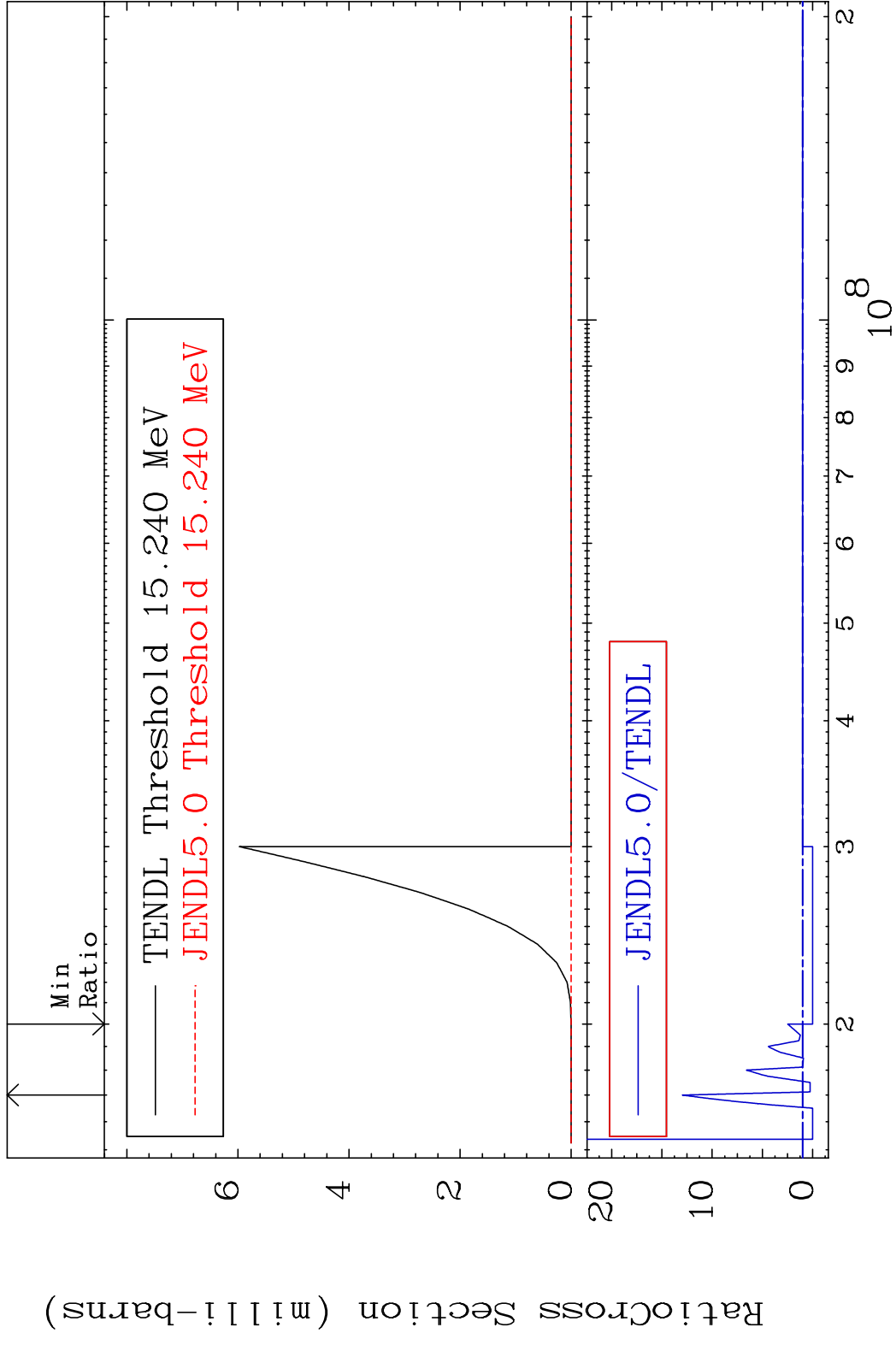


7 Incident Energy (eV) 50-Sn-123

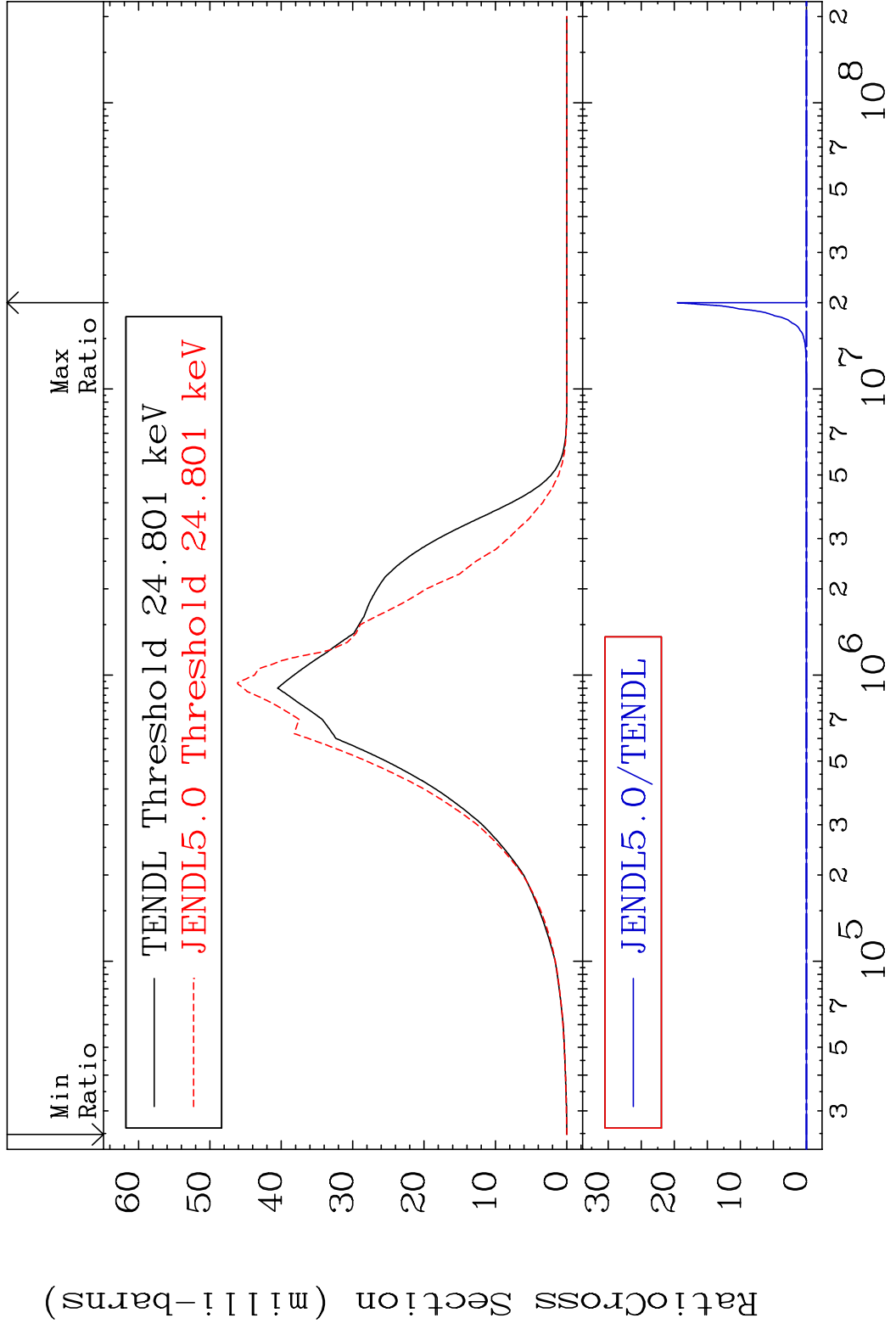
MAT 5058 (n, n') p 50-Sn-123
 Cross Section -100.0 To 9999. %



MAT 5058 (n, n') d 50-Sn-123
 Cross Section -100.0 To 1197. %



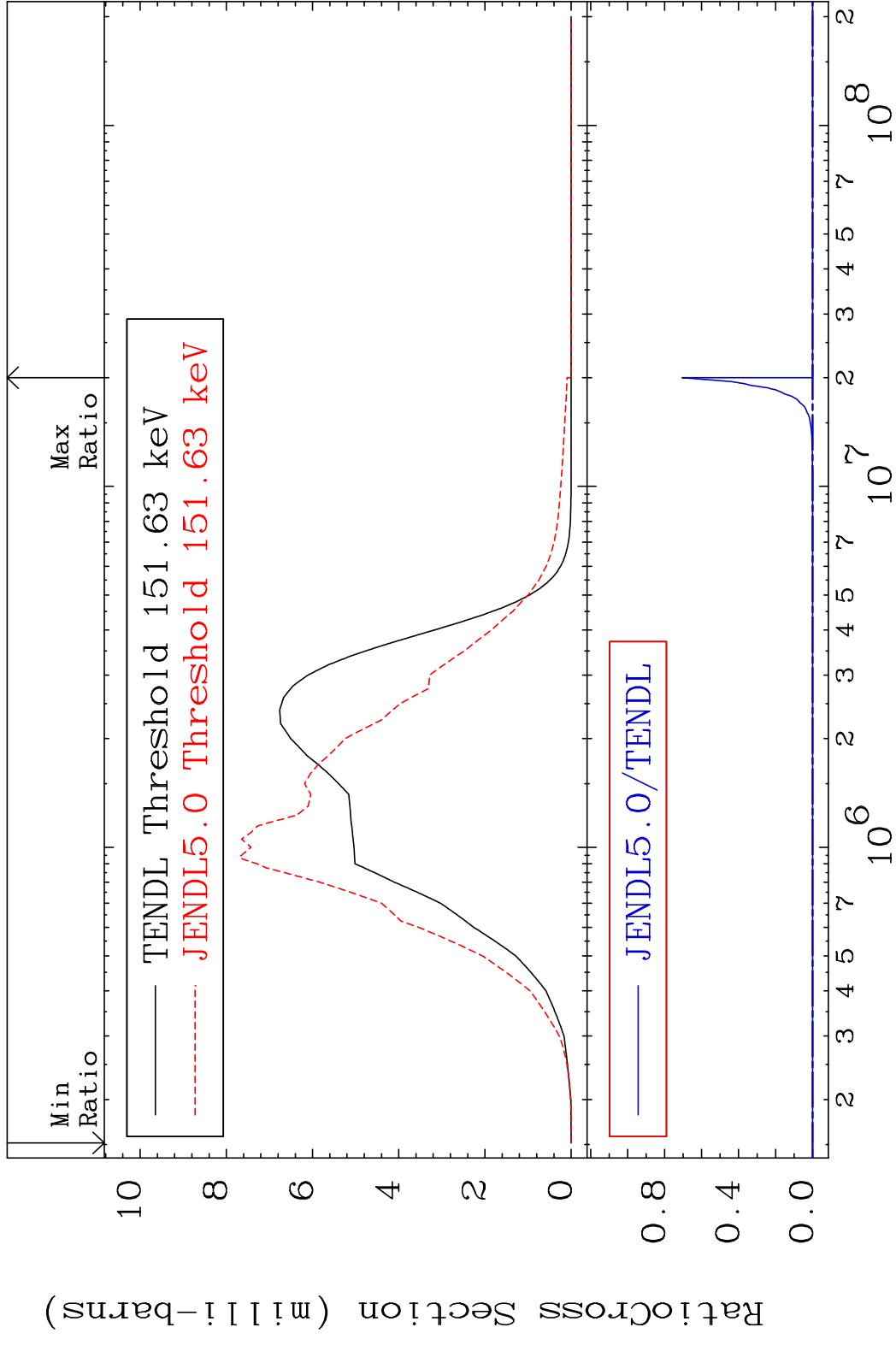
MAT 5058 MT= 51 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %



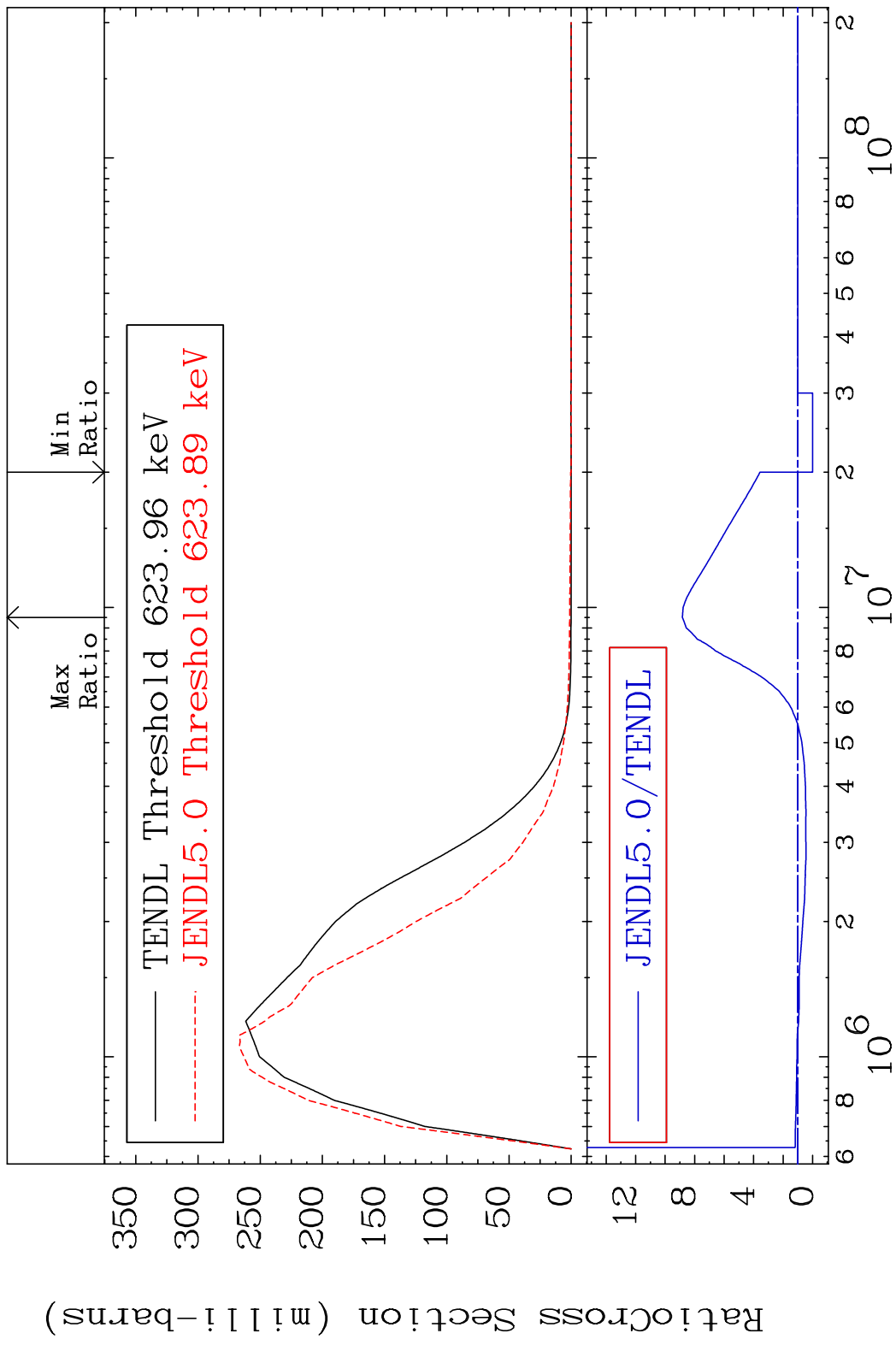
10

50-Sn-123

MAT 5058 MT= 52 (n,n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %

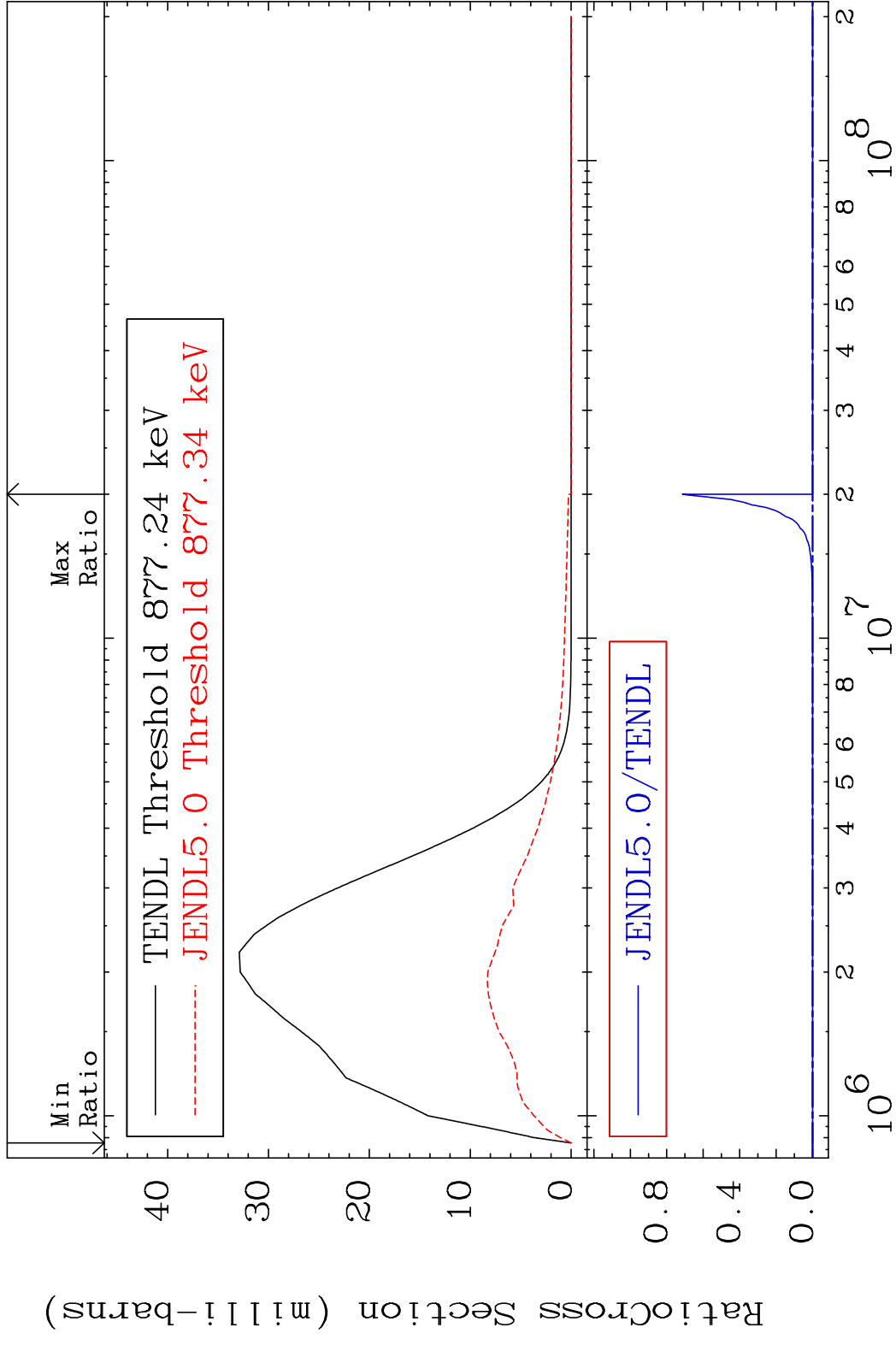


MAT 5058 MT= 53 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 783.3 %

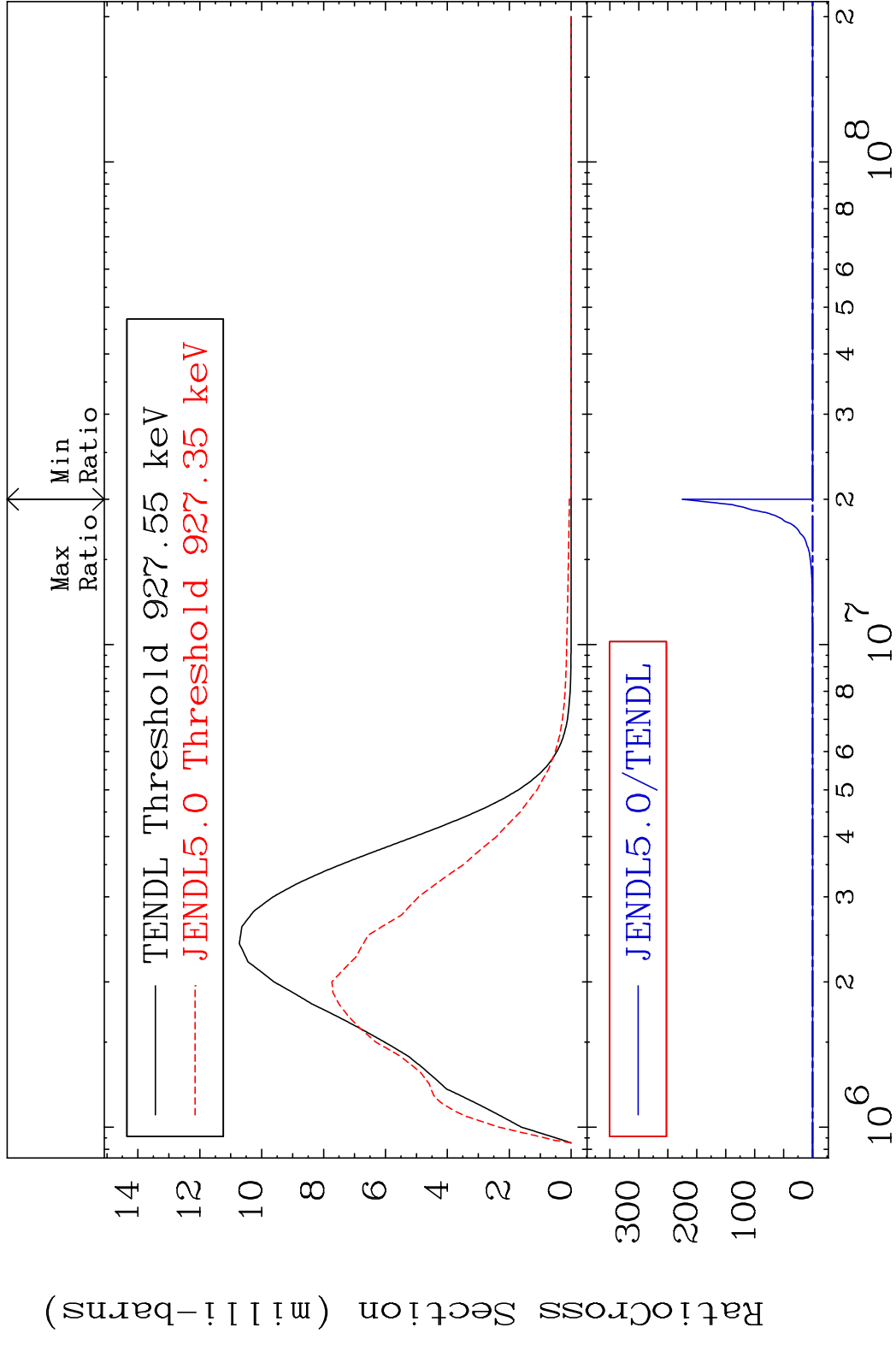


12 50-Sn-123

MAT 5058 MT= 54 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %

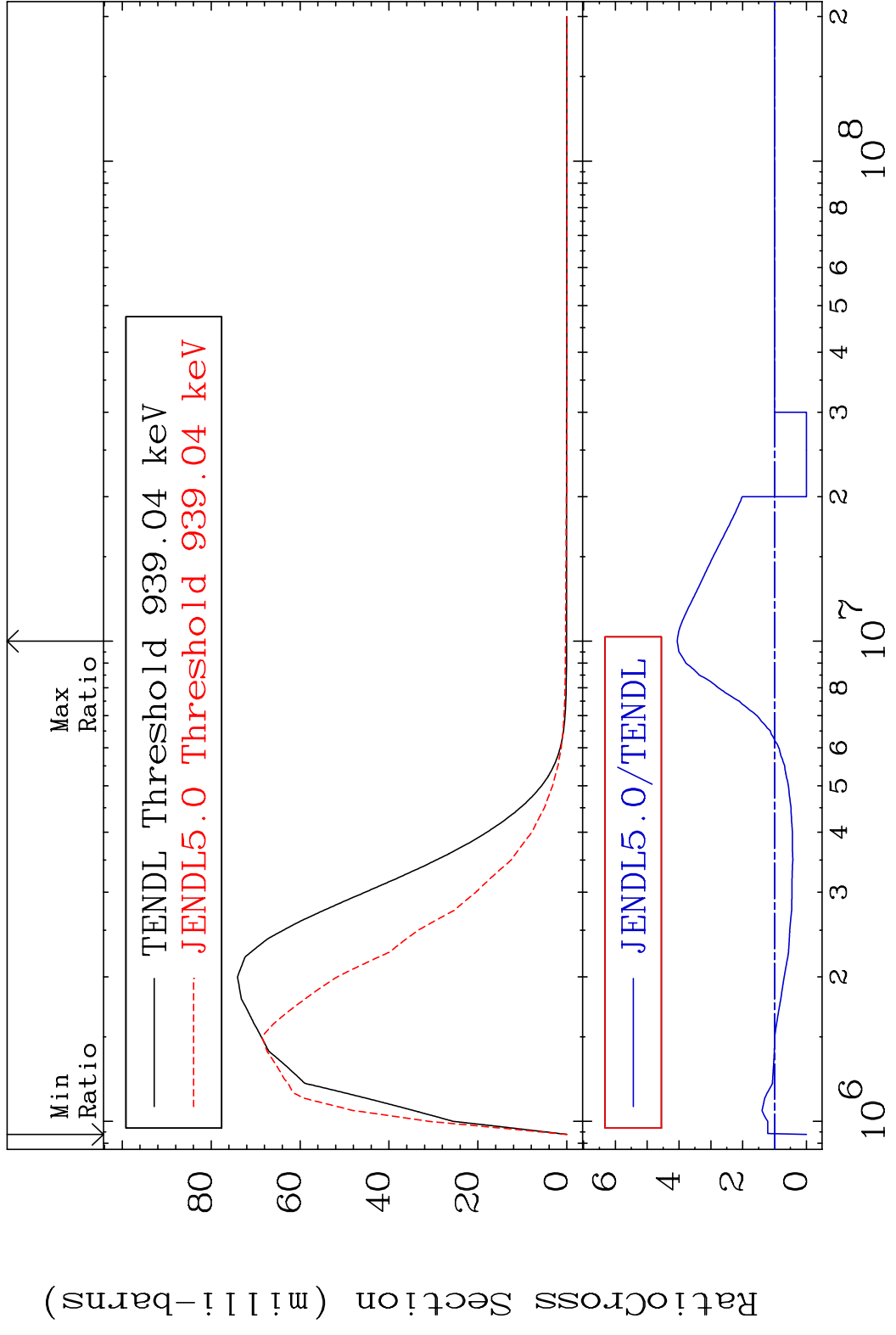


MAT 5058 MT= 55 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %



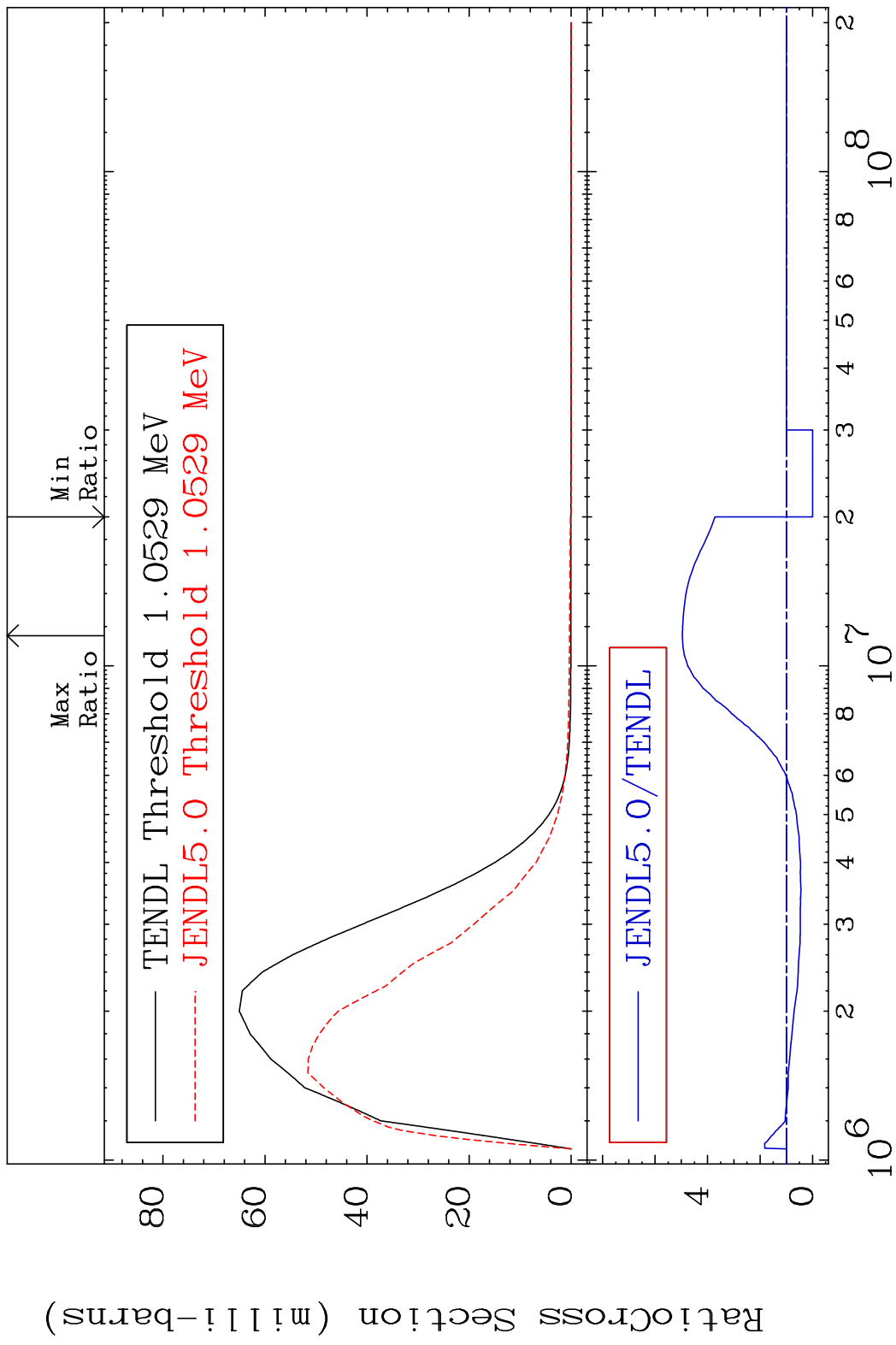
14 Incident Energy (eV) 50-Sn-123

MAT 5058 MT= 56 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 305.8 %



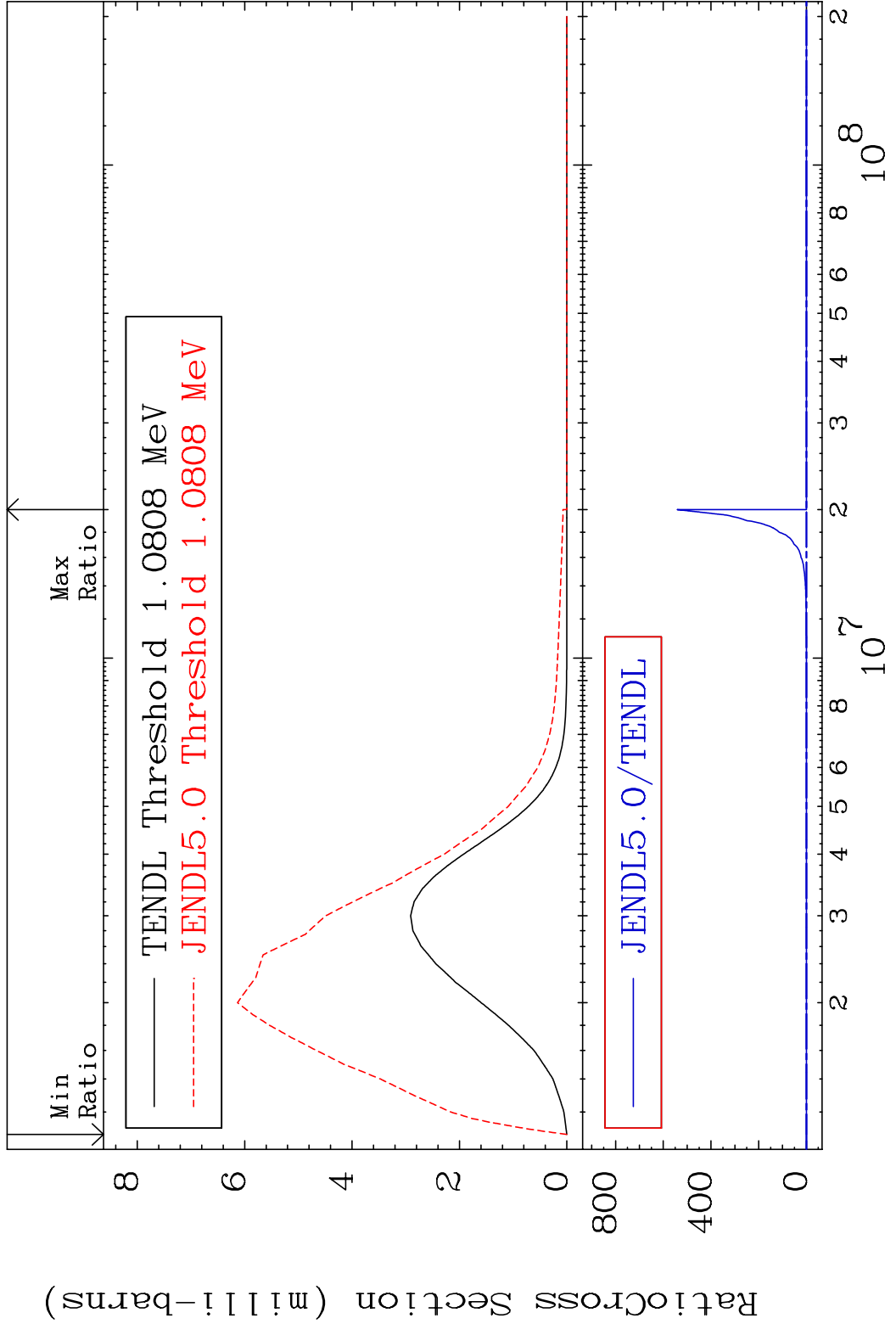
15 50-Sn-123

MAT 5058 MT= 57 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 396.1 %

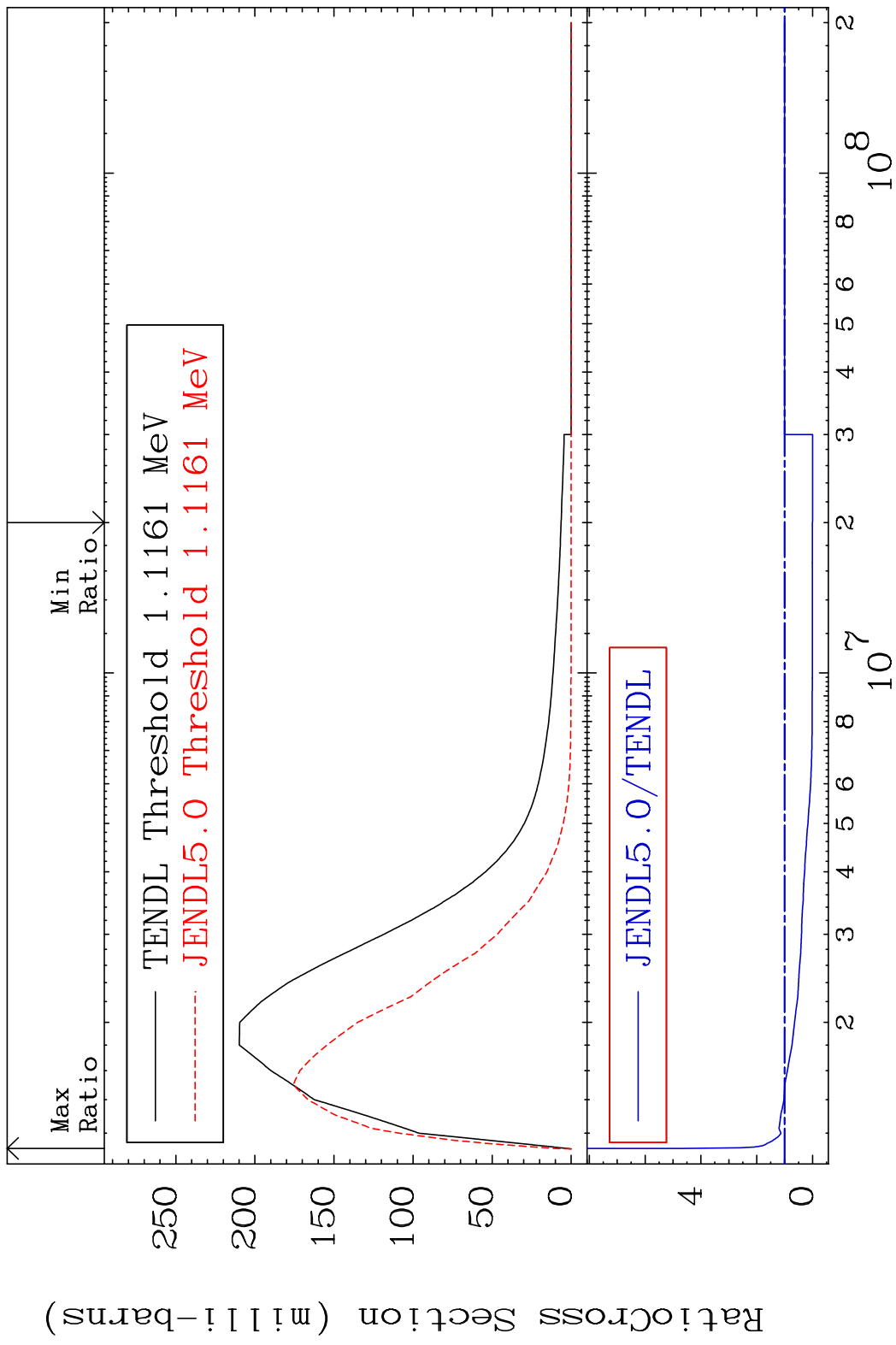


16 Incident Energy (eV) 50-Sn-123

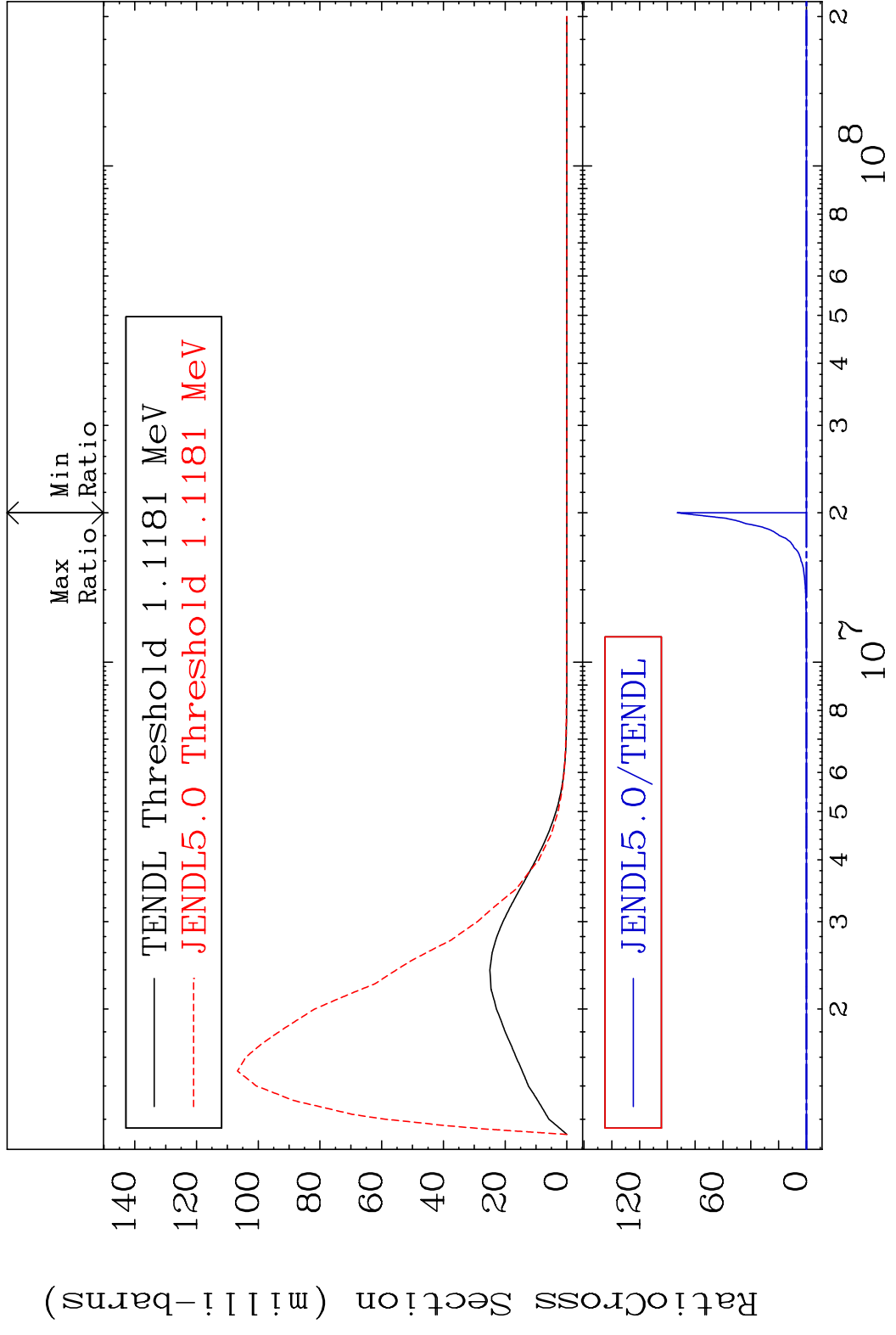
MAT 5058 MT= 58 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %



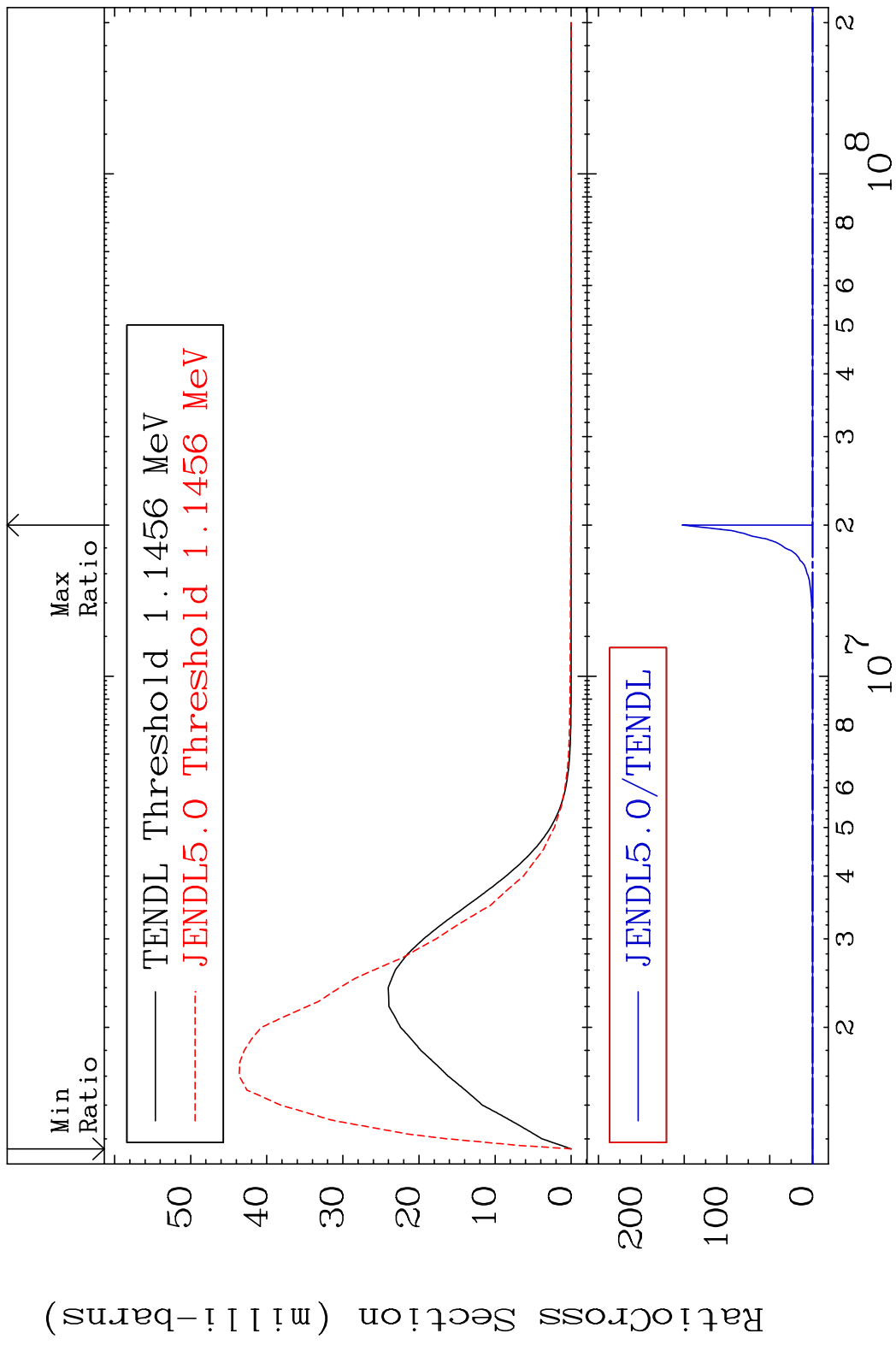
MAT 5058 MT= 59 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 366.6 %



MAT 5058 MT= 60 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %

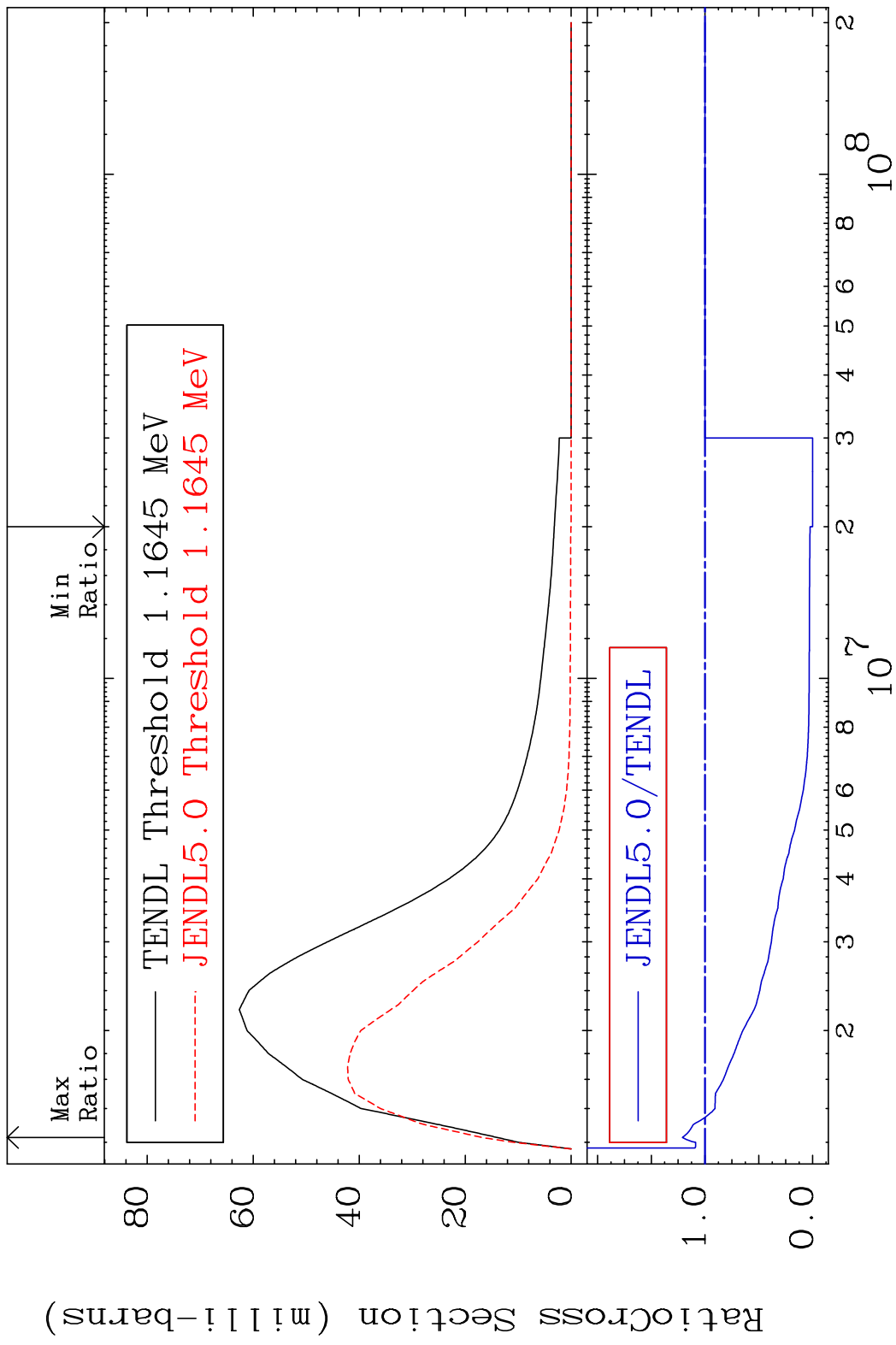


MAT 5058 MT= 61 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %

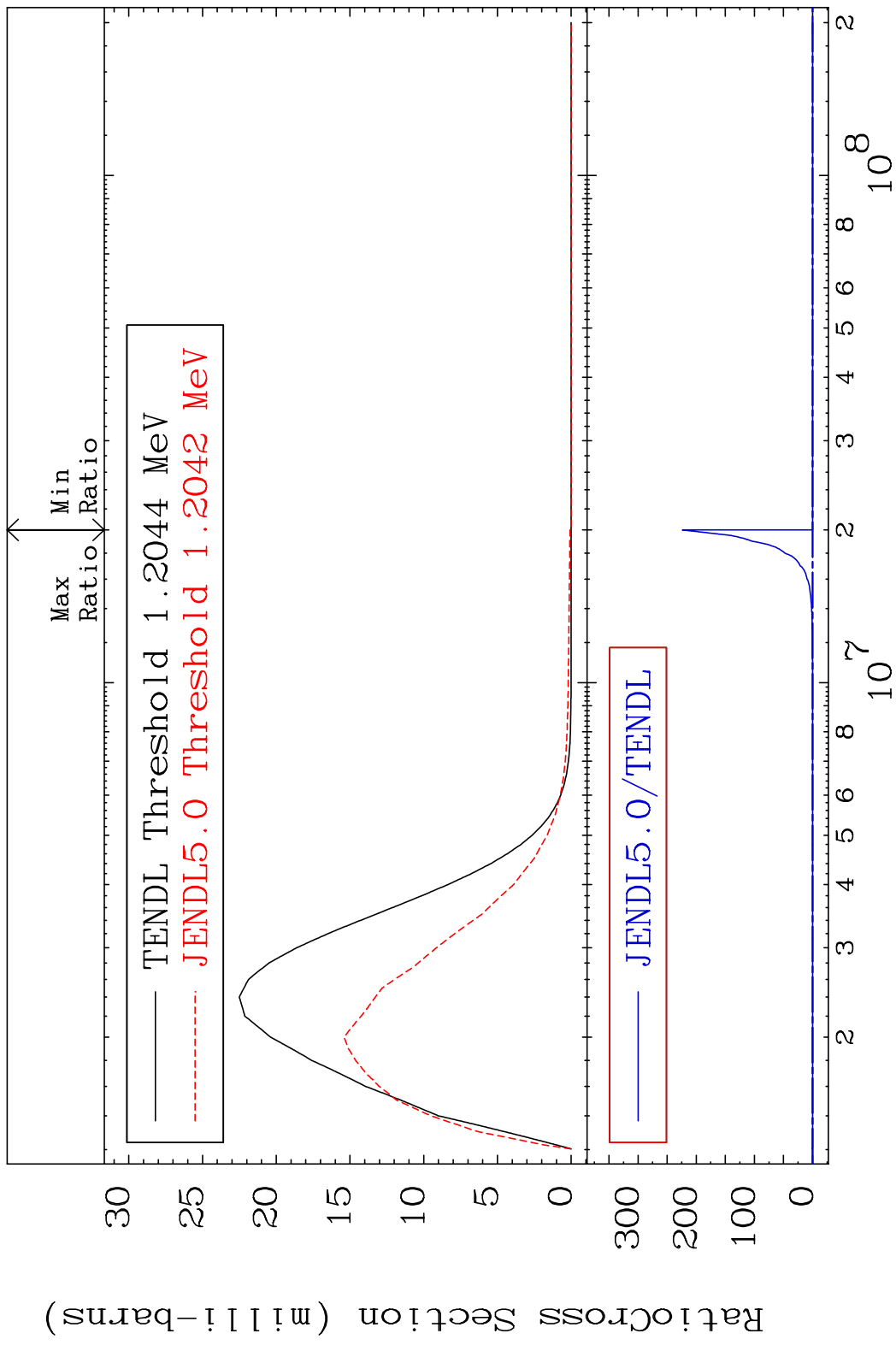


20 50-Sn-123

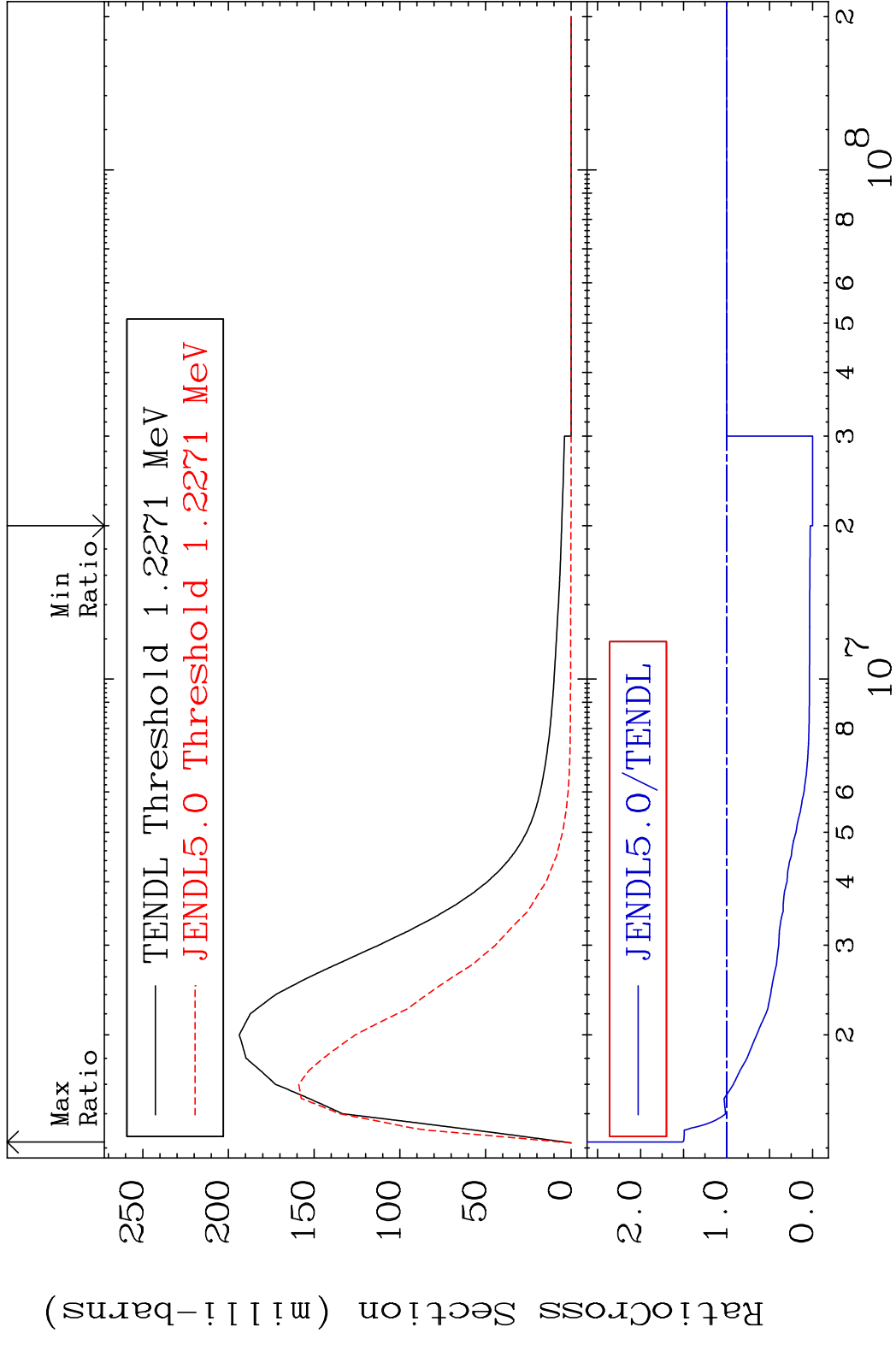
MAT 5058 MT= 62 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 21.09 %



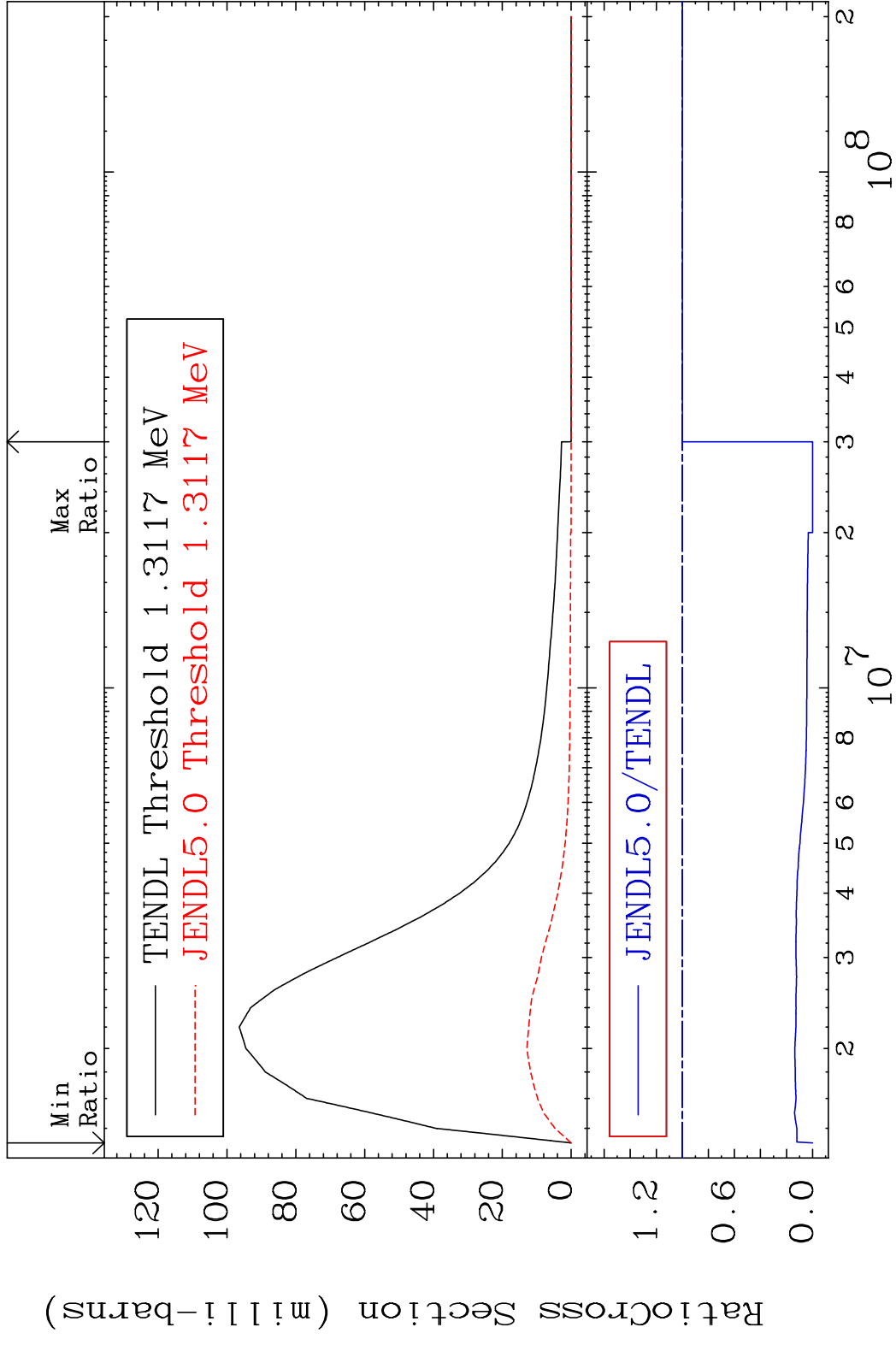
MAT 5058 MT= 63 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 9999. %



MAT 5058 MT= 64 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 51.42 %



MAT 5058 MT= 65 (n, n') Level 50-Sn-123
 Cross Section -100.0 To 0.000 %

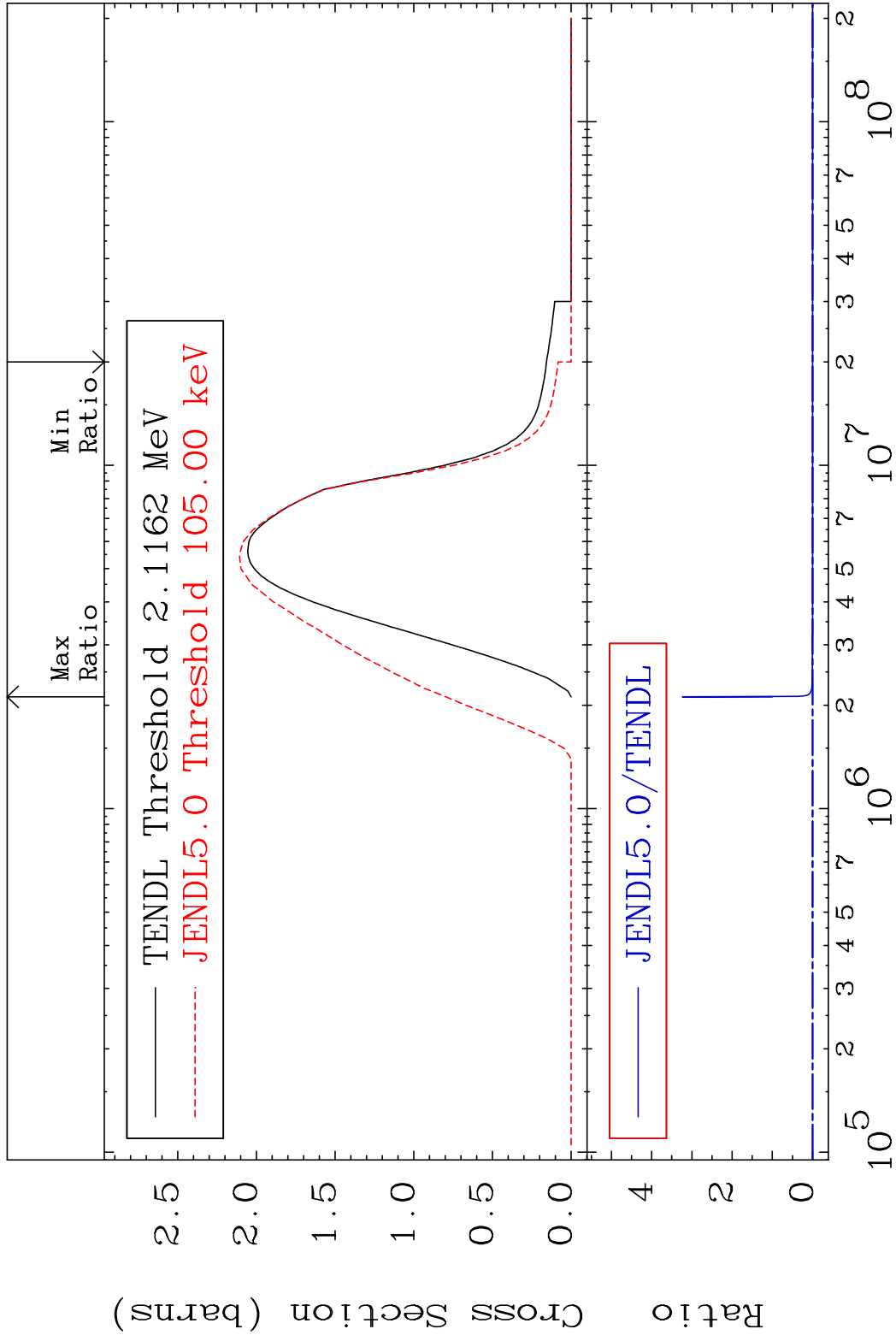


MAT 5058

(n, n') Continuum

50-Sn-123

Cross Section -100.0 To 9999. %



25

Incident Energy (eV)

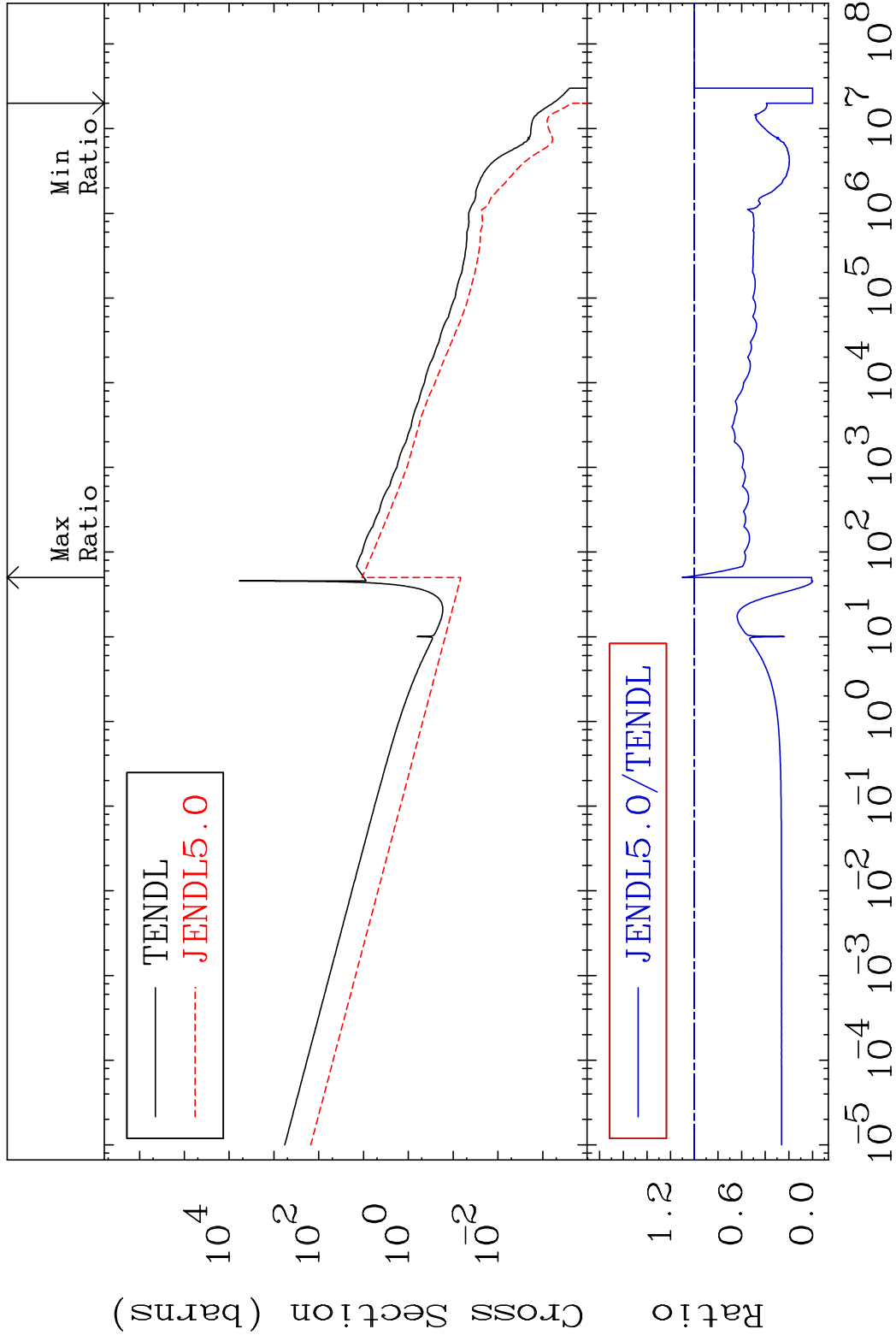
50-Sn-123

MAT 5058

(n, γ)

50-Sn-123

Cross Section -100.0 To 10.10 %

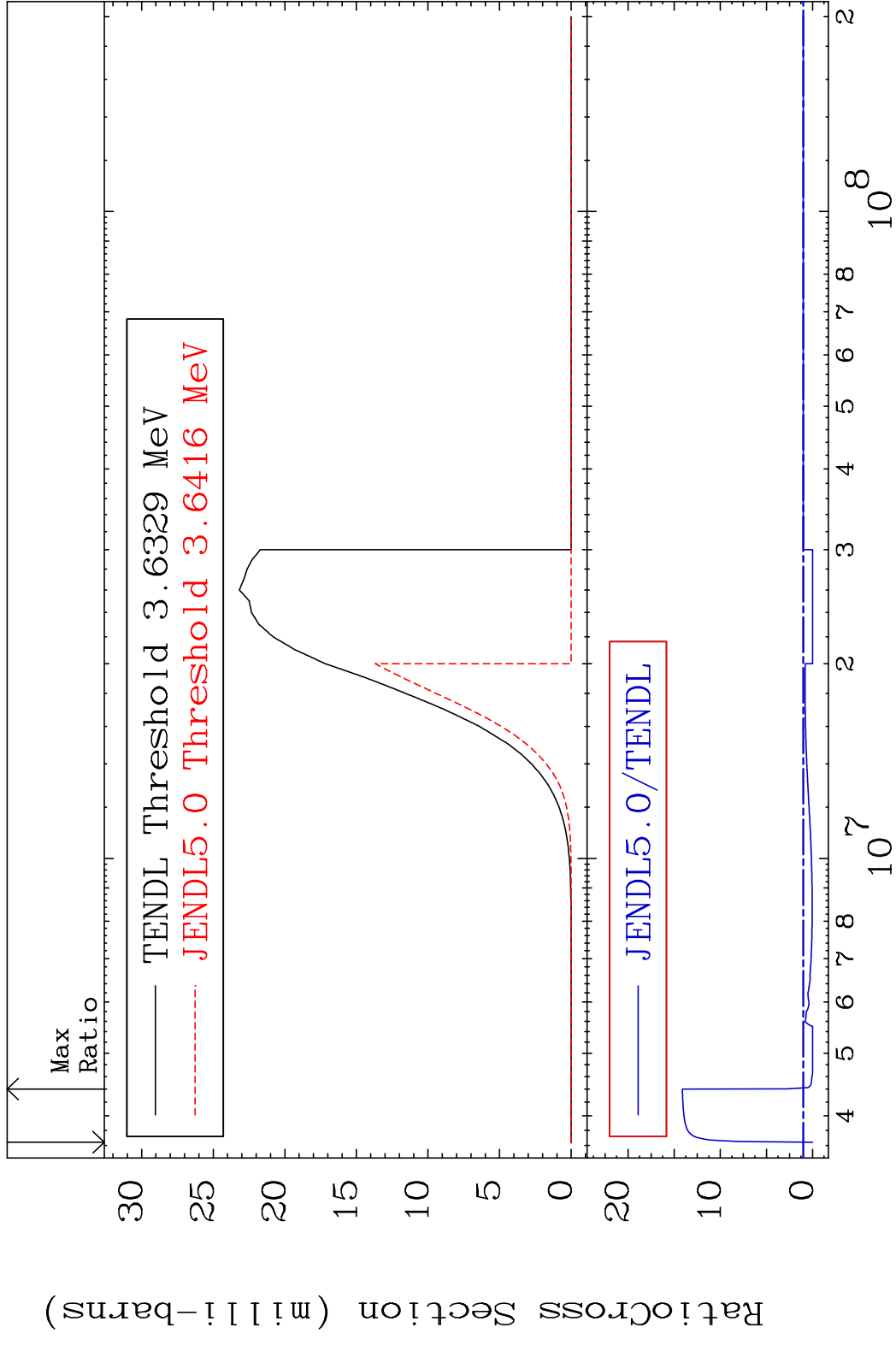


26

Incident Energy (eV)

50-Sn-123

MAT 5058 (n,p) 50-Sn-123
 Cross Section -100.0 To 1311. %

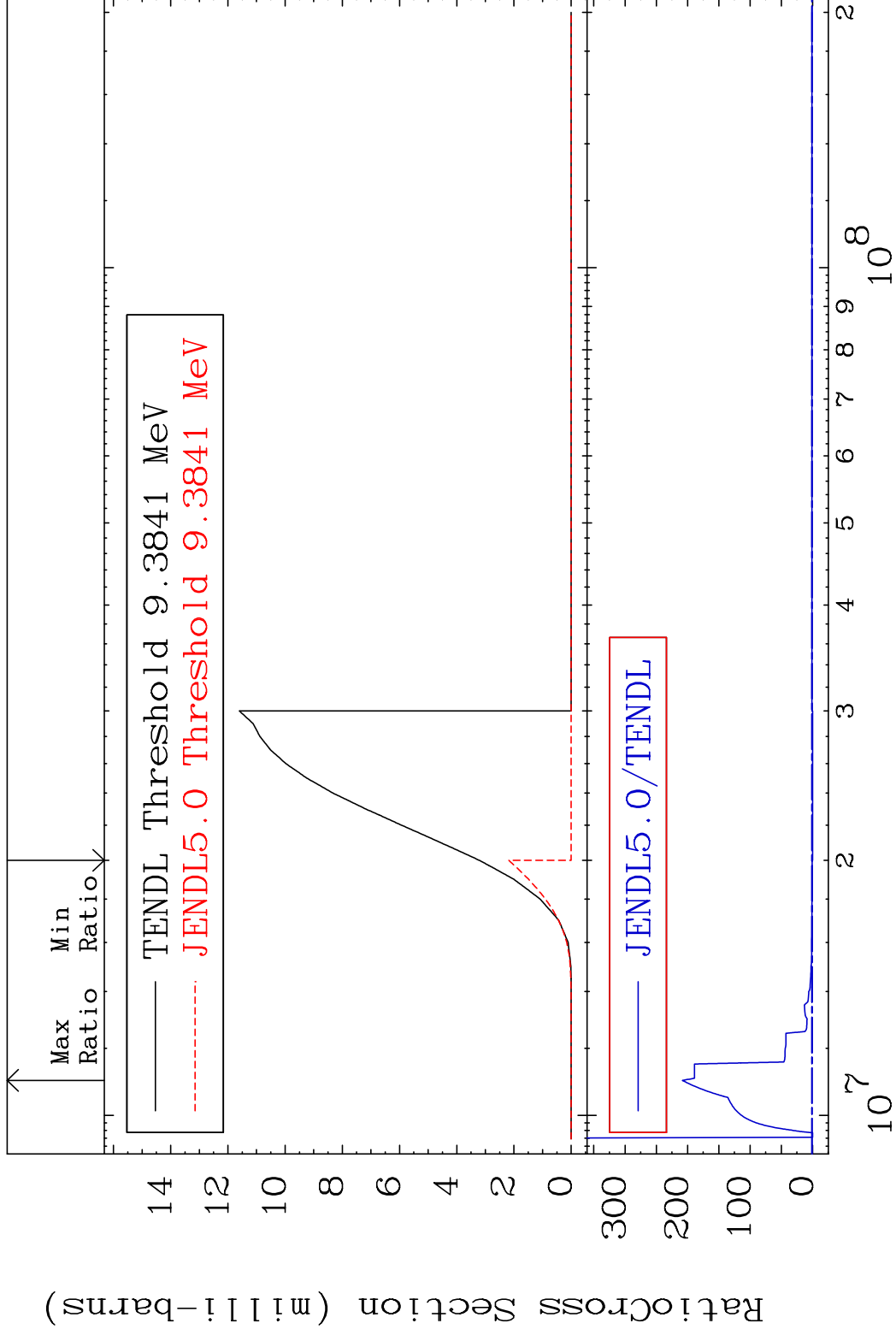


MAT 5058

(n,d)

50-Sn-123

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

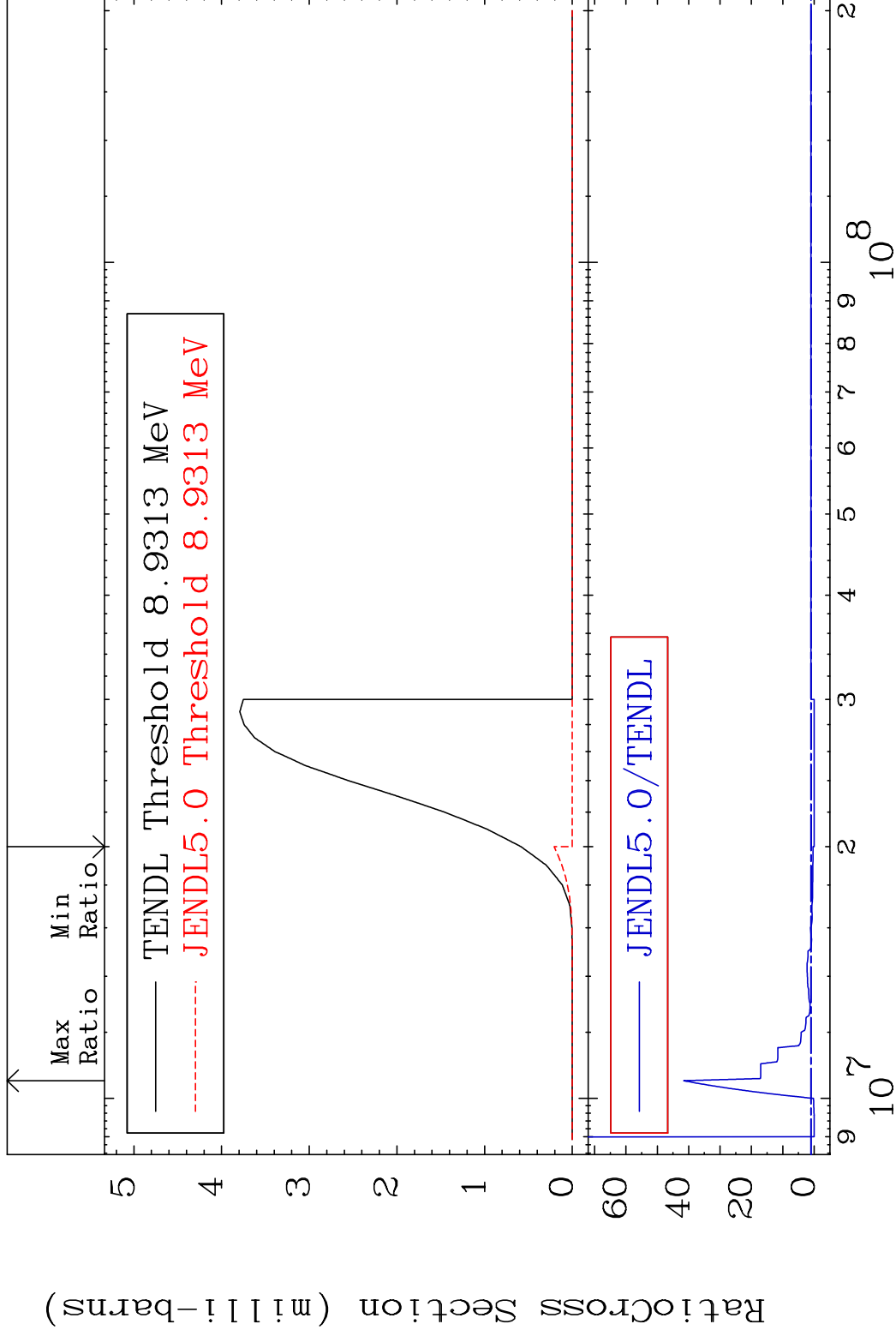
50-Sn-123

MAT 5058

(n, t)

50-Sn-123

Cross Section -100.0 To 4060. %



29

Incident Energy (eV)

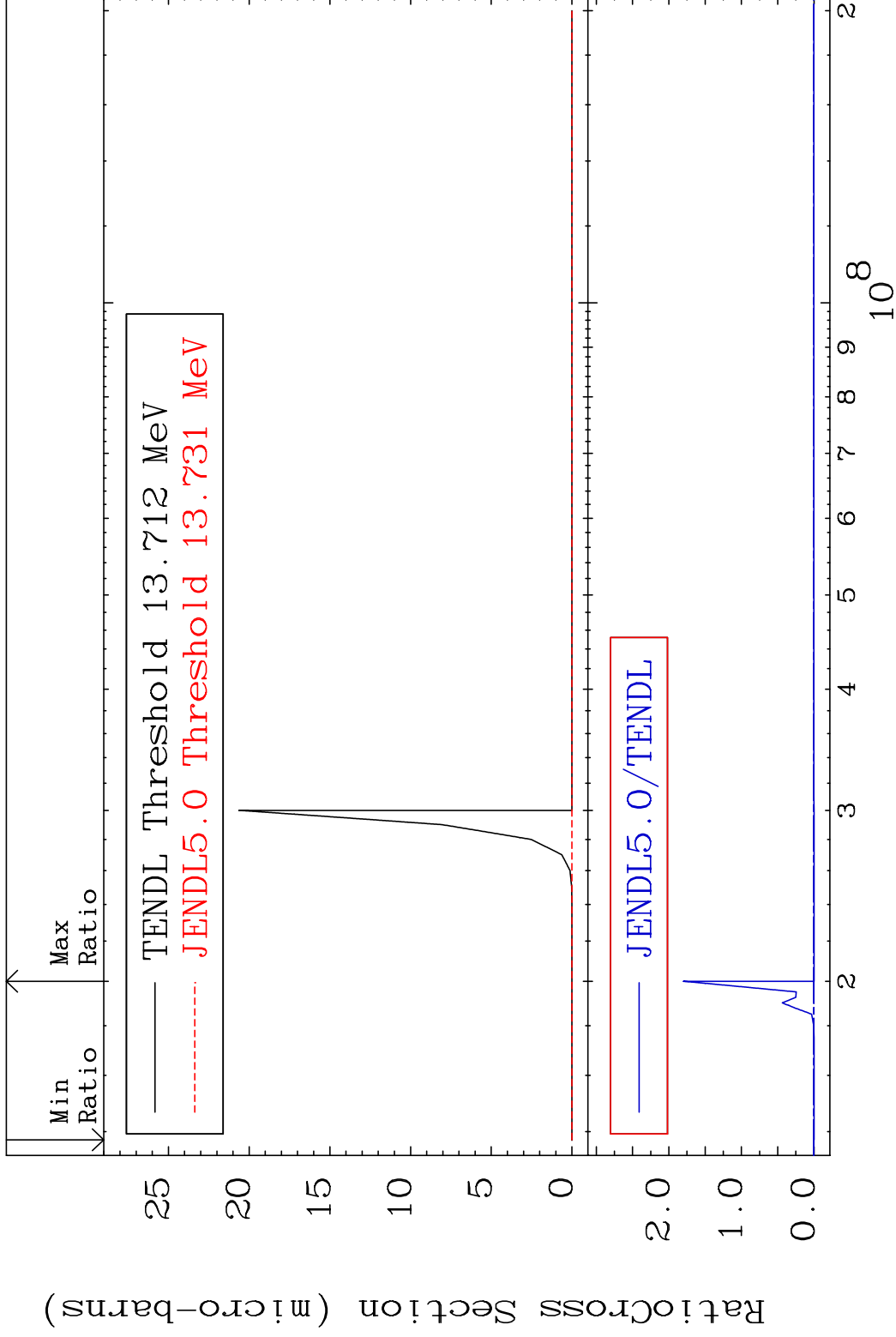
50-Sn-123

MAT 5058

(n, He-3)

50-Sn-123

Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

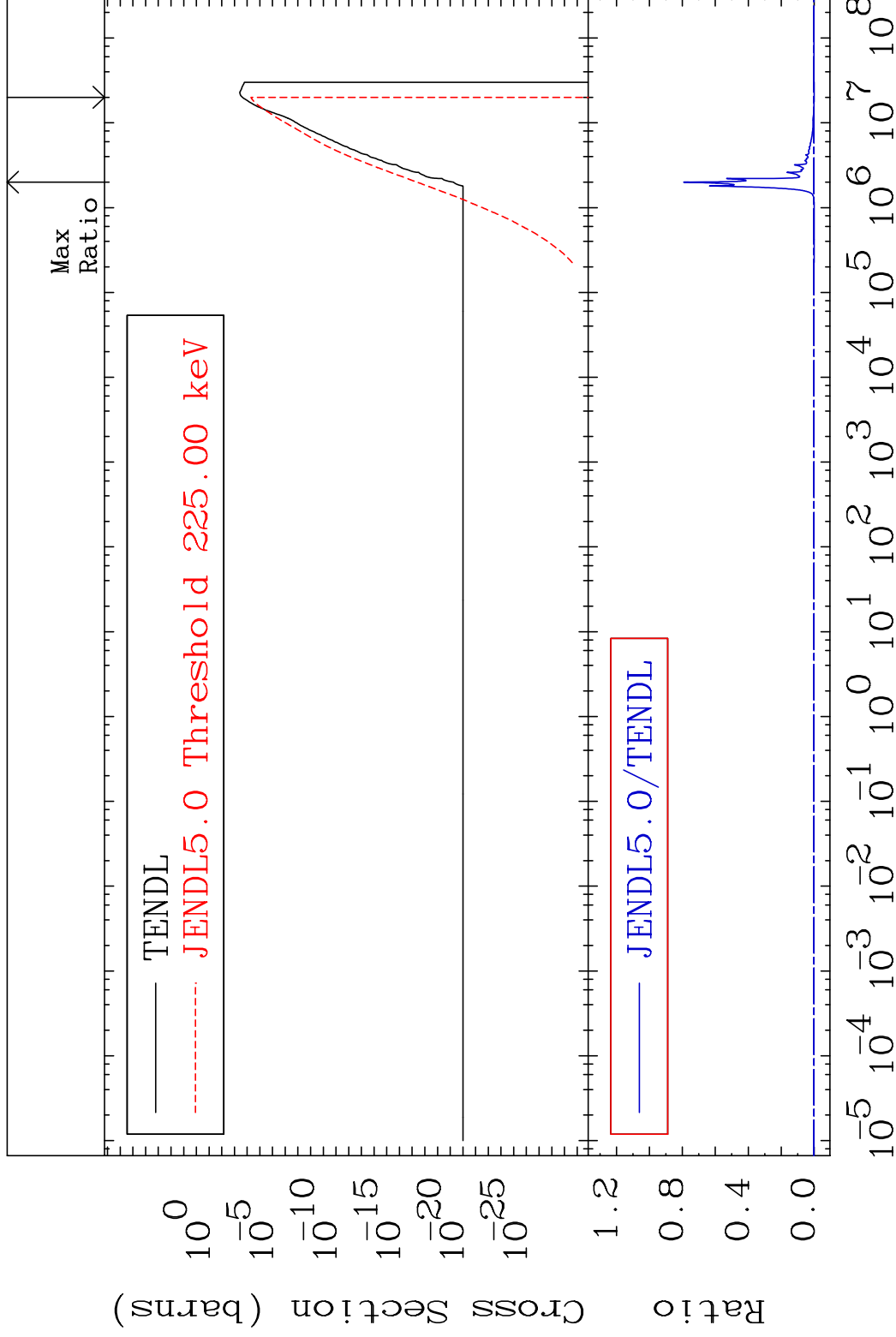
50-Sn-123

MAT 5058

(n, α)

50-Sn-123

Cross Section -100.0 To 9999. %

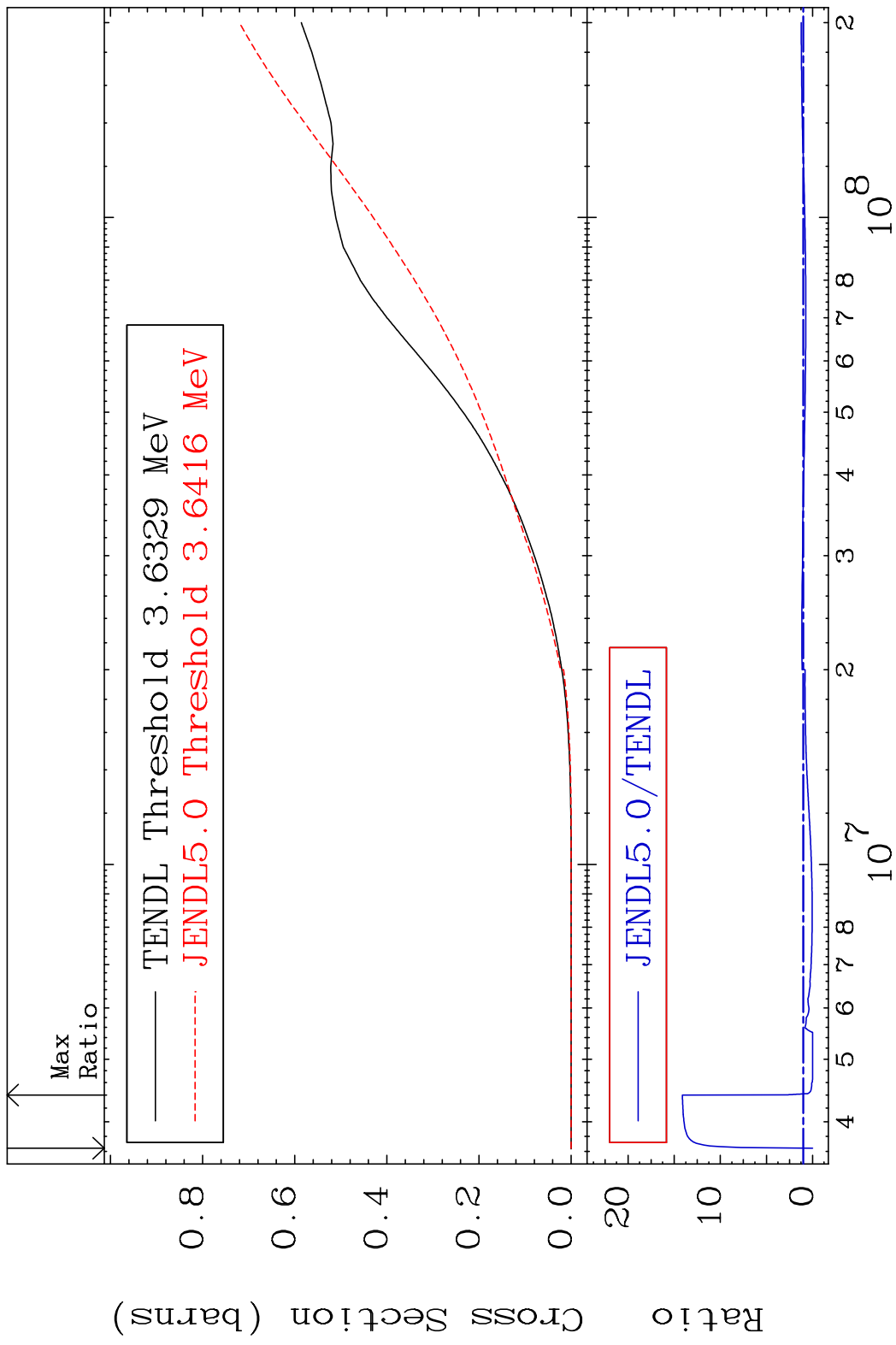


31

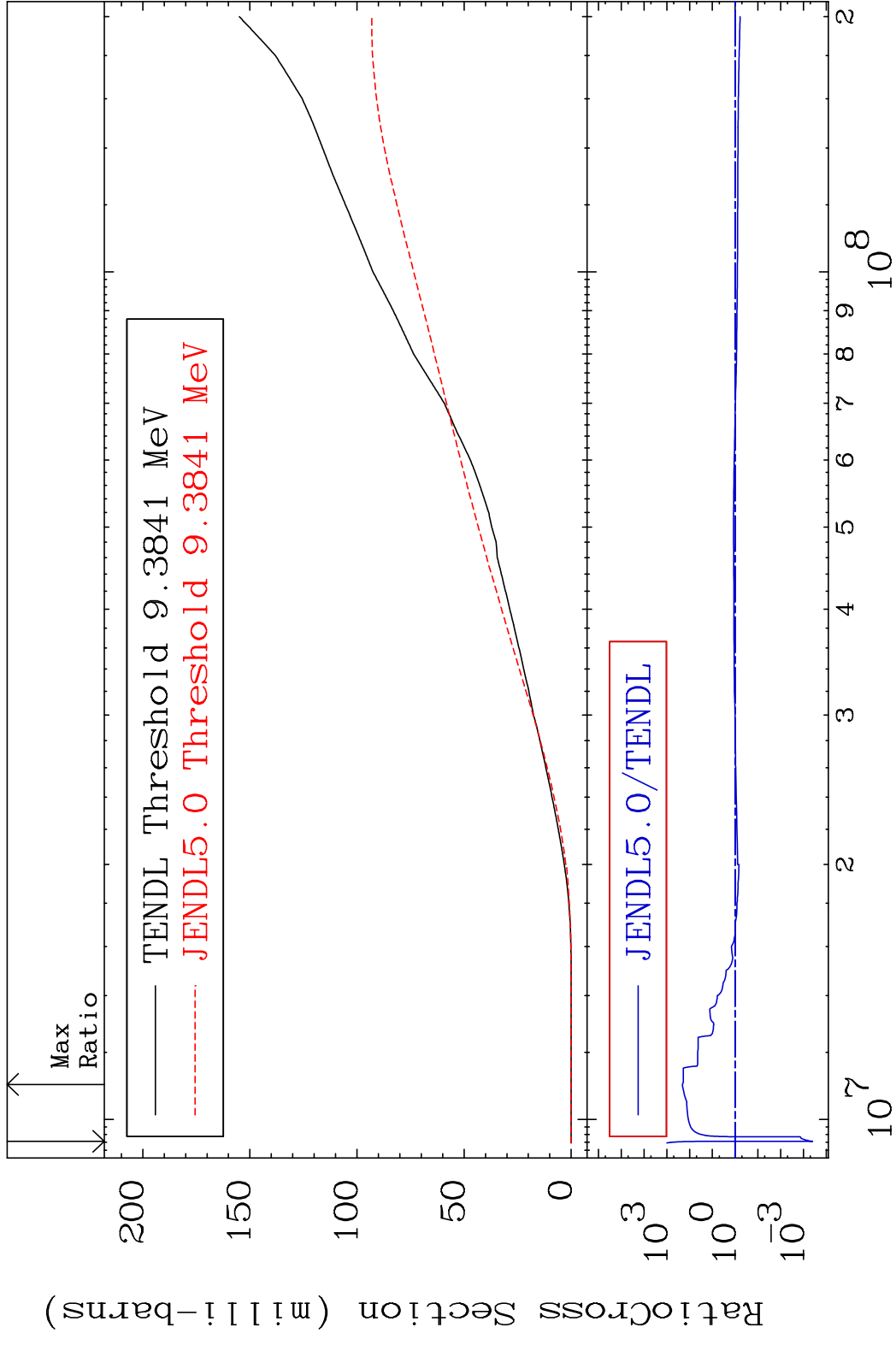
Incident Energy (eV)

50-Sn-123

MAT 5058 Hydrogen Production 50-Sn-123
 Cross Section -100.0 To 1311. %

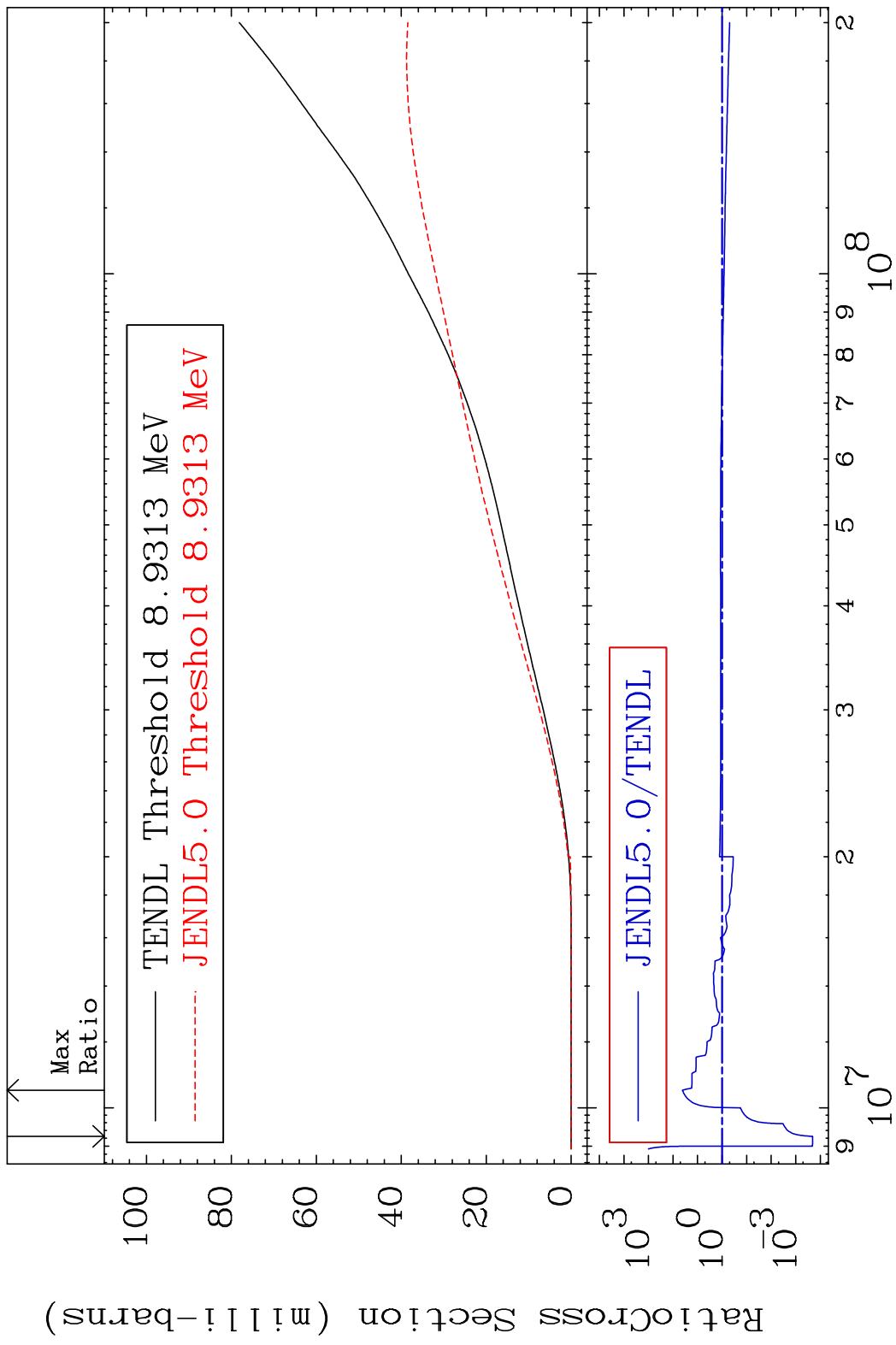


MAT 5058 Deuterium Production 50-Sn-123
 Cross Section -99.96 To 9999. %



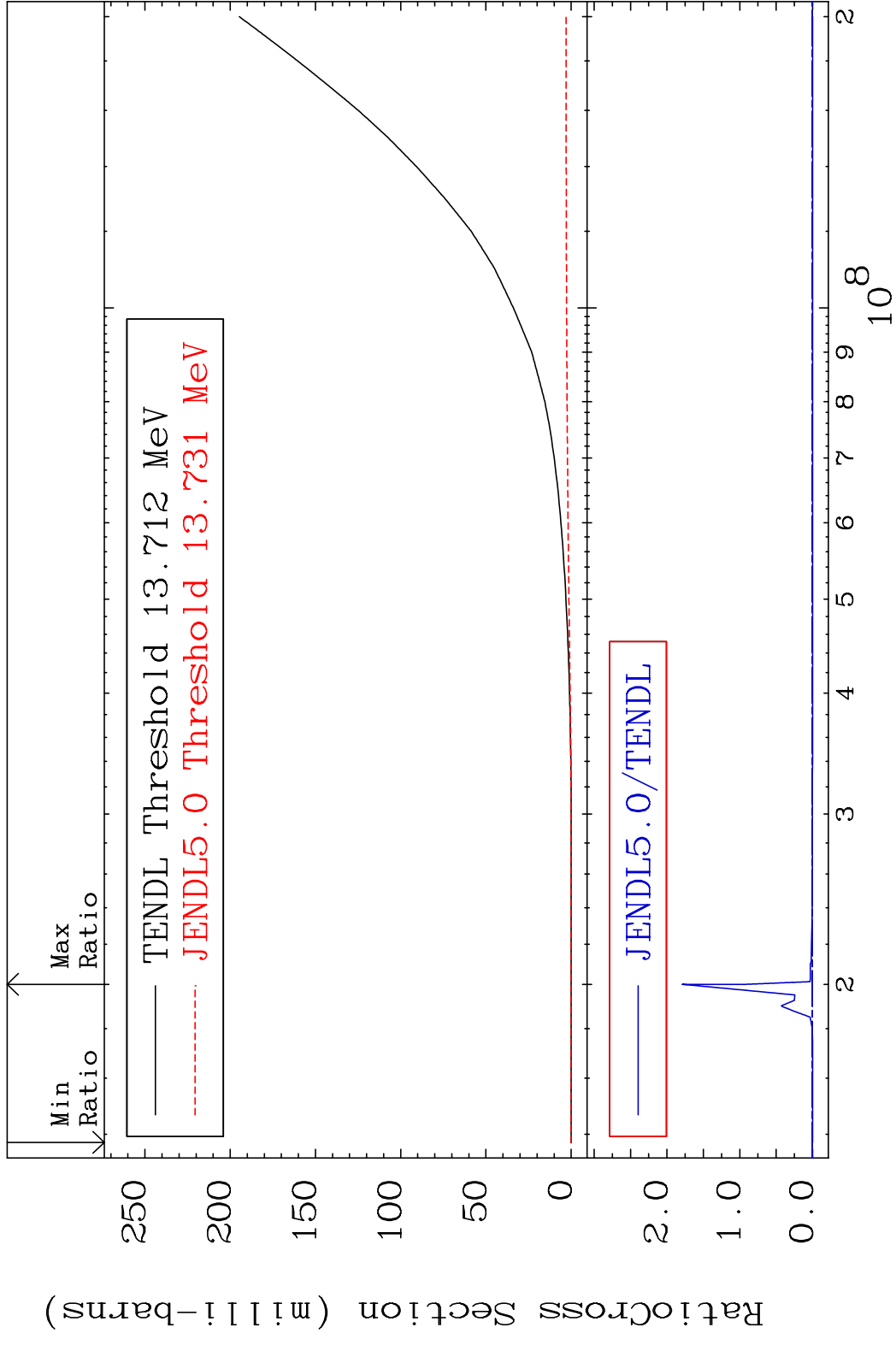
33 50-Sn-123

MAT 5058 Tritium Production 50-Sn-123
 Cross Section -99.98 To 4060. %



34 50-Sn-123

MAT 5058 He-3 Production 50-Sn-123
 Cross Section -100.0 To 9999. %

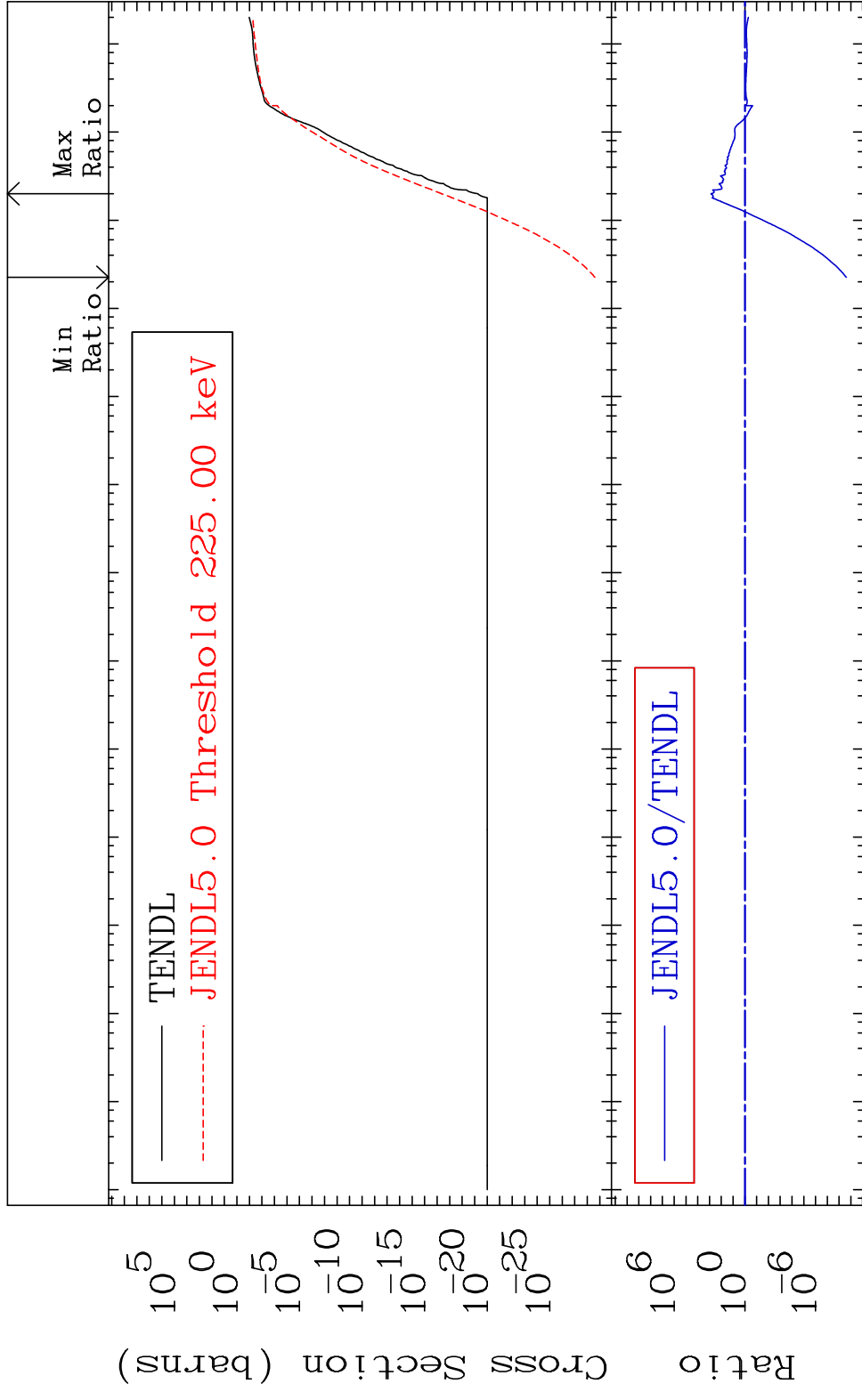


MAT 5058

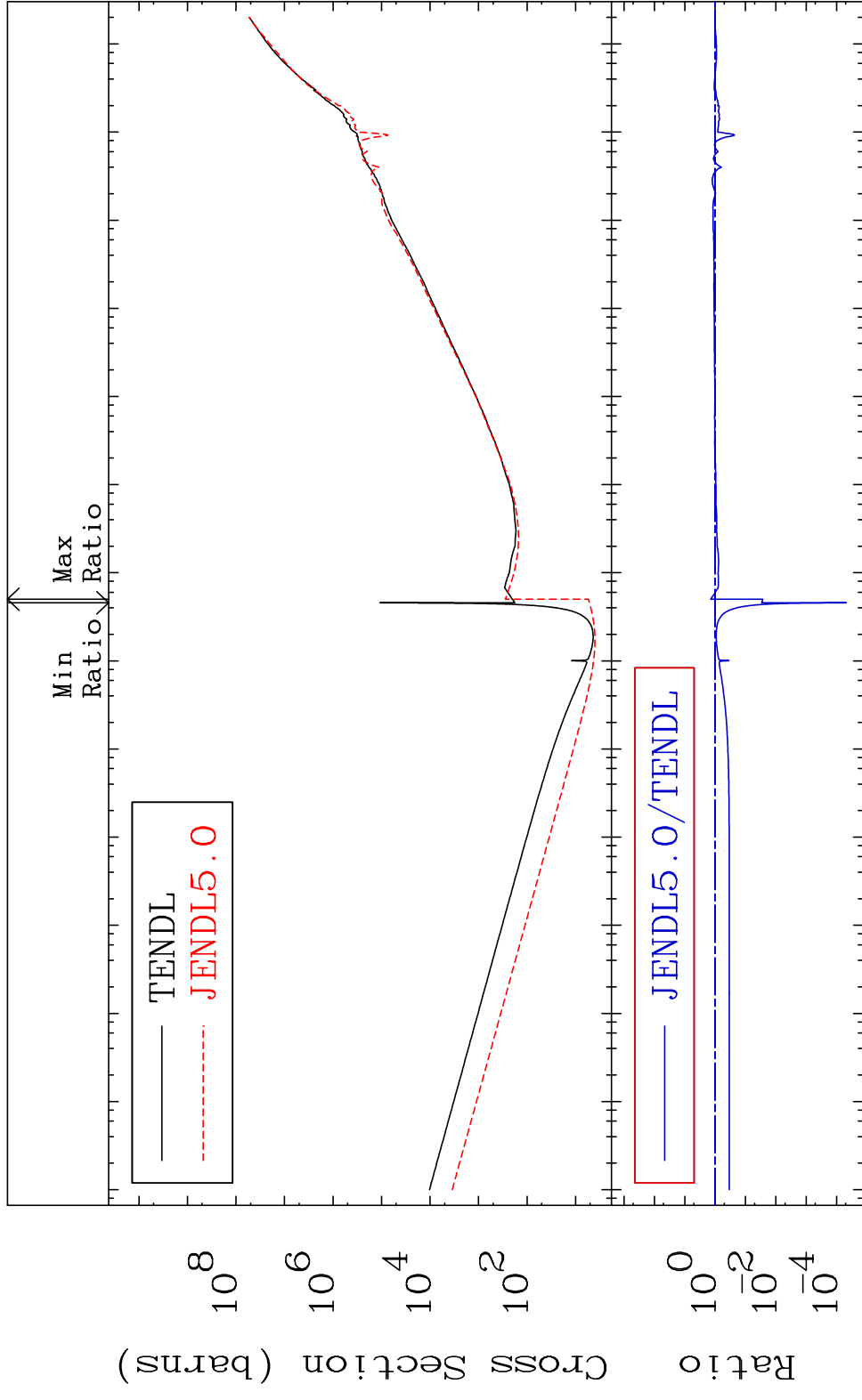
He-4 Production

50-Sn-123

Cross Section -100.0 To 9999. %



MAT 5058 Kerma total (eV-barns) 50-Sn-123
 Cross Section -100.0 To 39.65 %

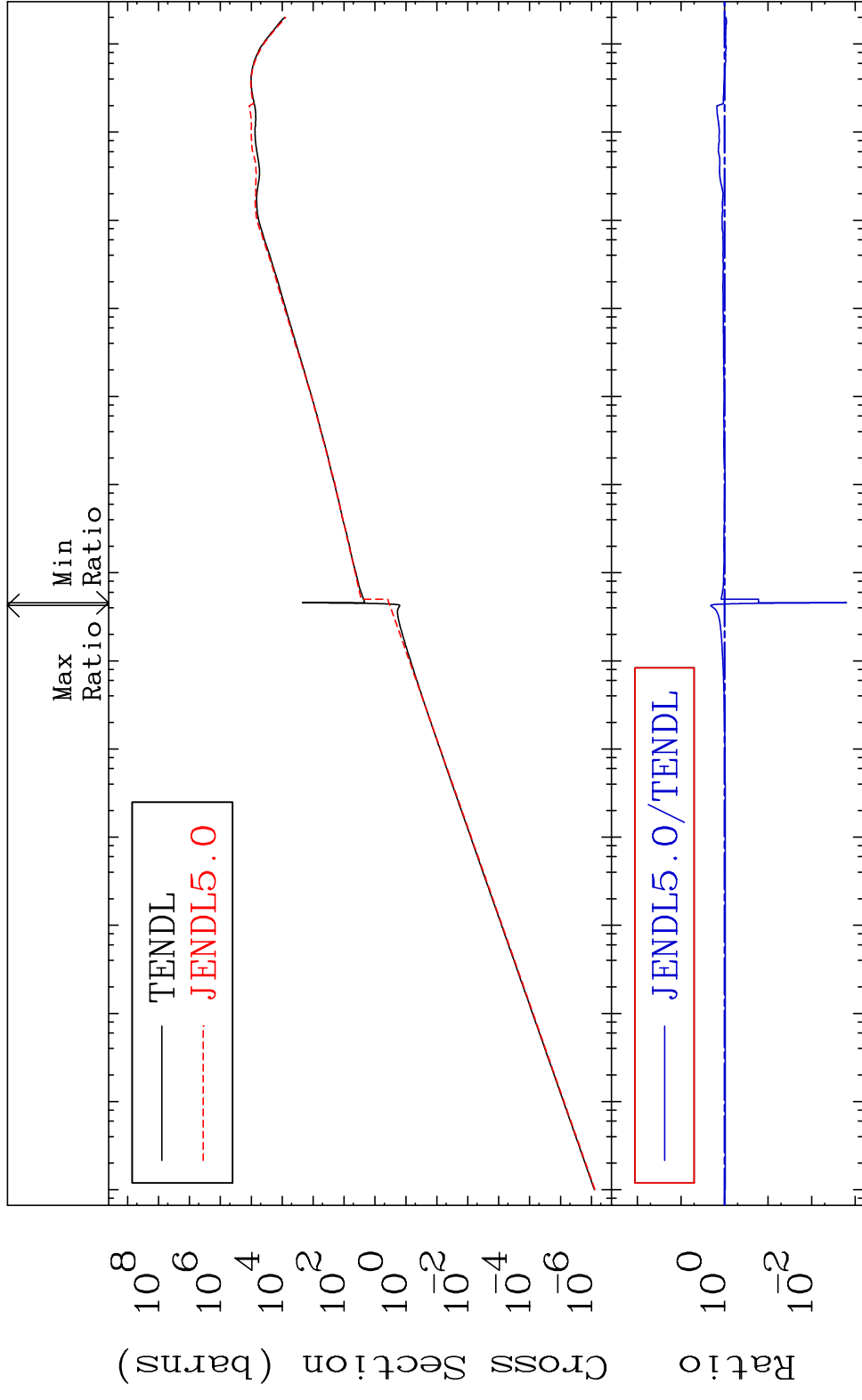


37 Incident Energy (eV) 50-Sn-123

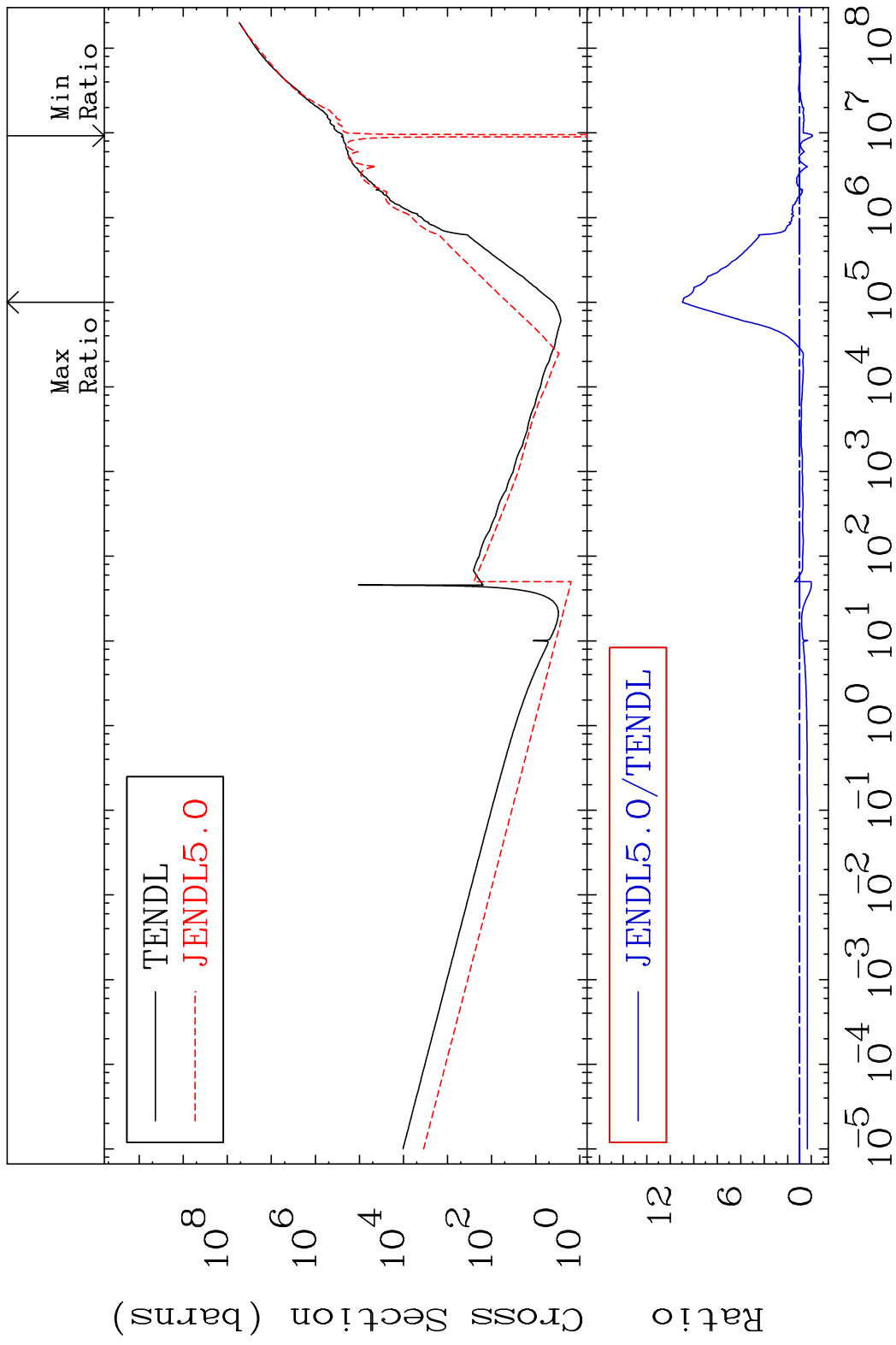
MAT 5058

Kerma elastic
Cross Section -99.84 To 107.2 %

50-Sn-123

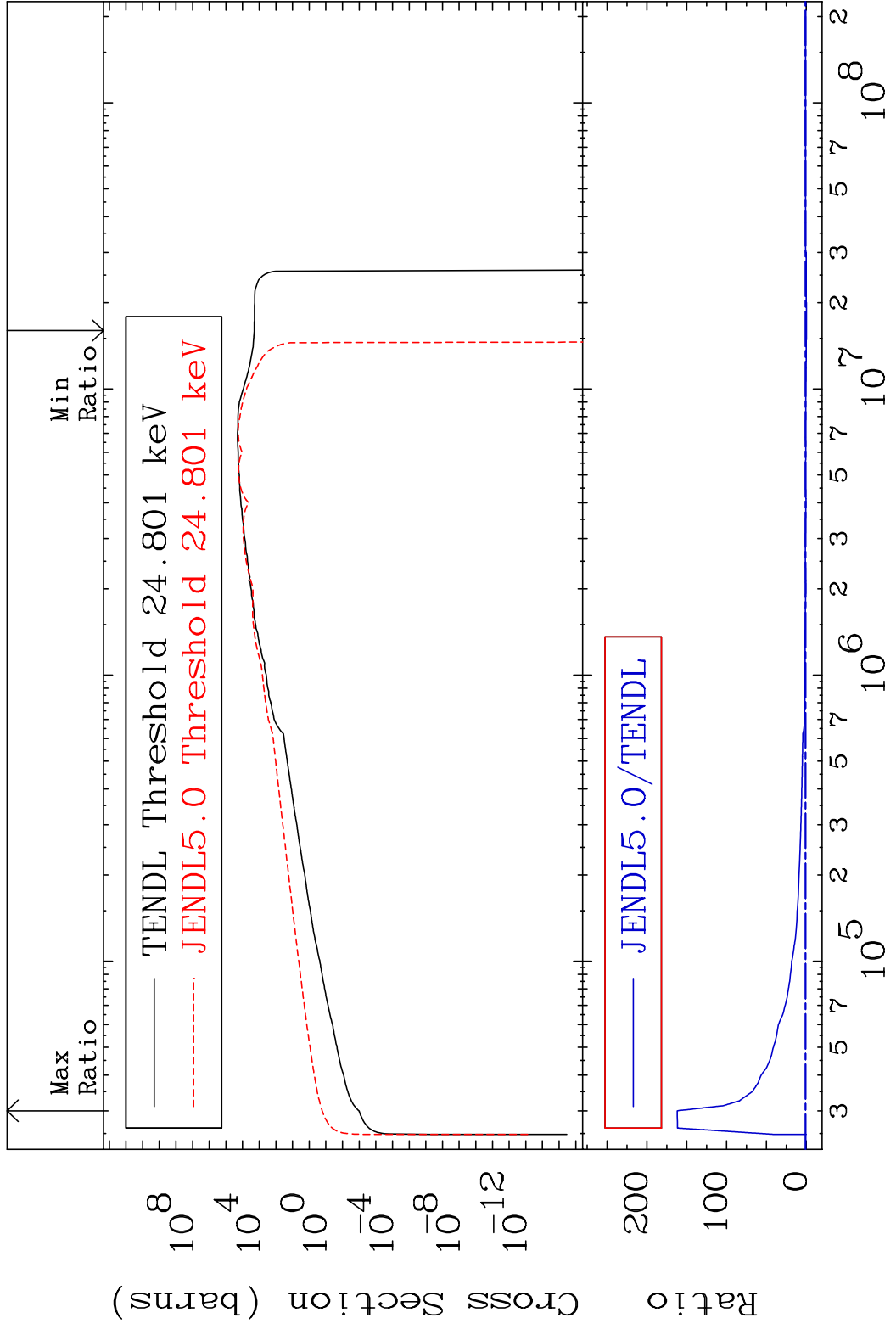


MAT 5058 Kerma non-elastic (all but mt2) 50-Sn-123
 Cross Section -110.7 To 996.8 %



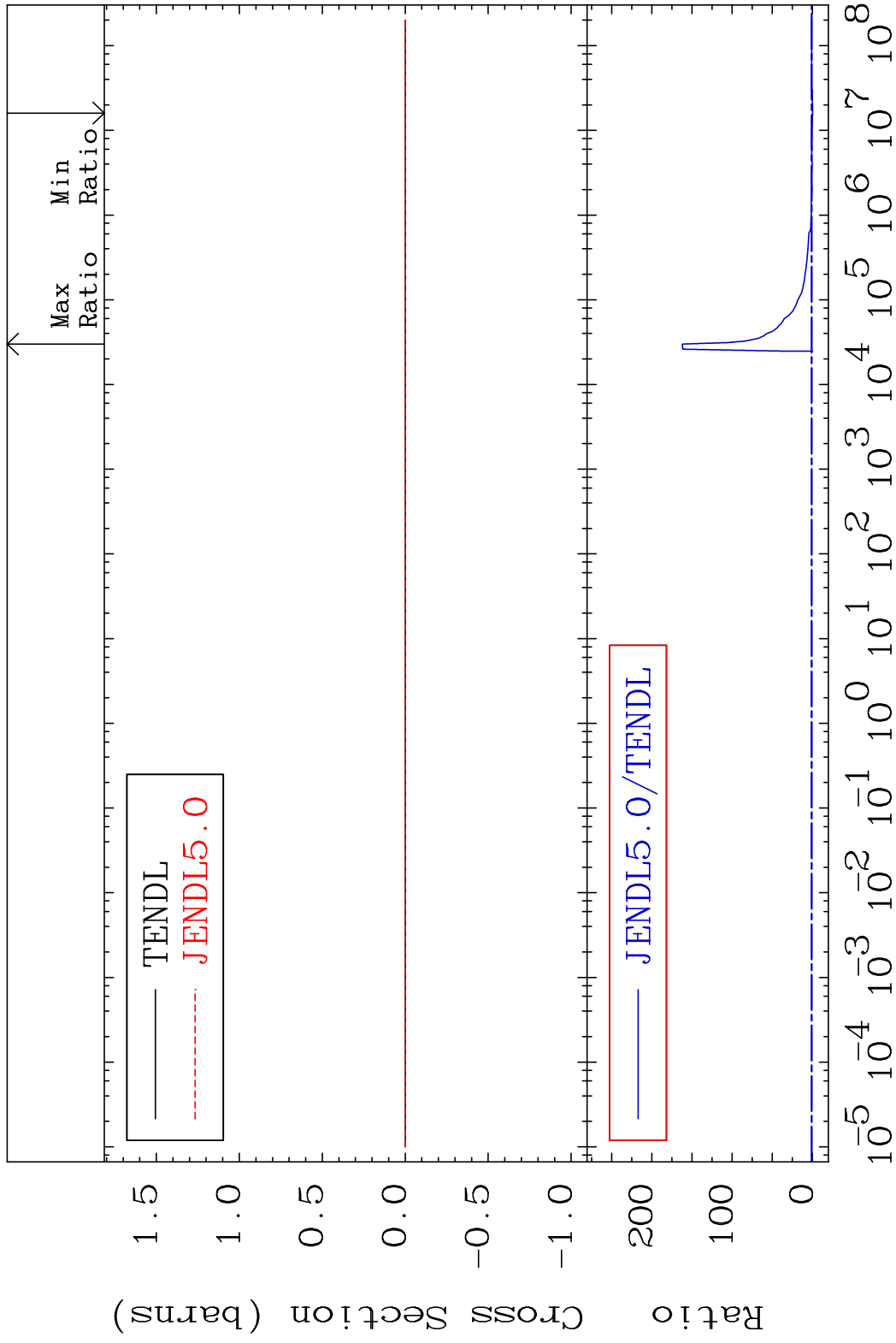
39 Incident Energy (eV) 50-Sn-123

MAT 5058 Kerma inelastic (mt51-91) 50-Sn-123
 Cross Section -110.0 To 9999. %



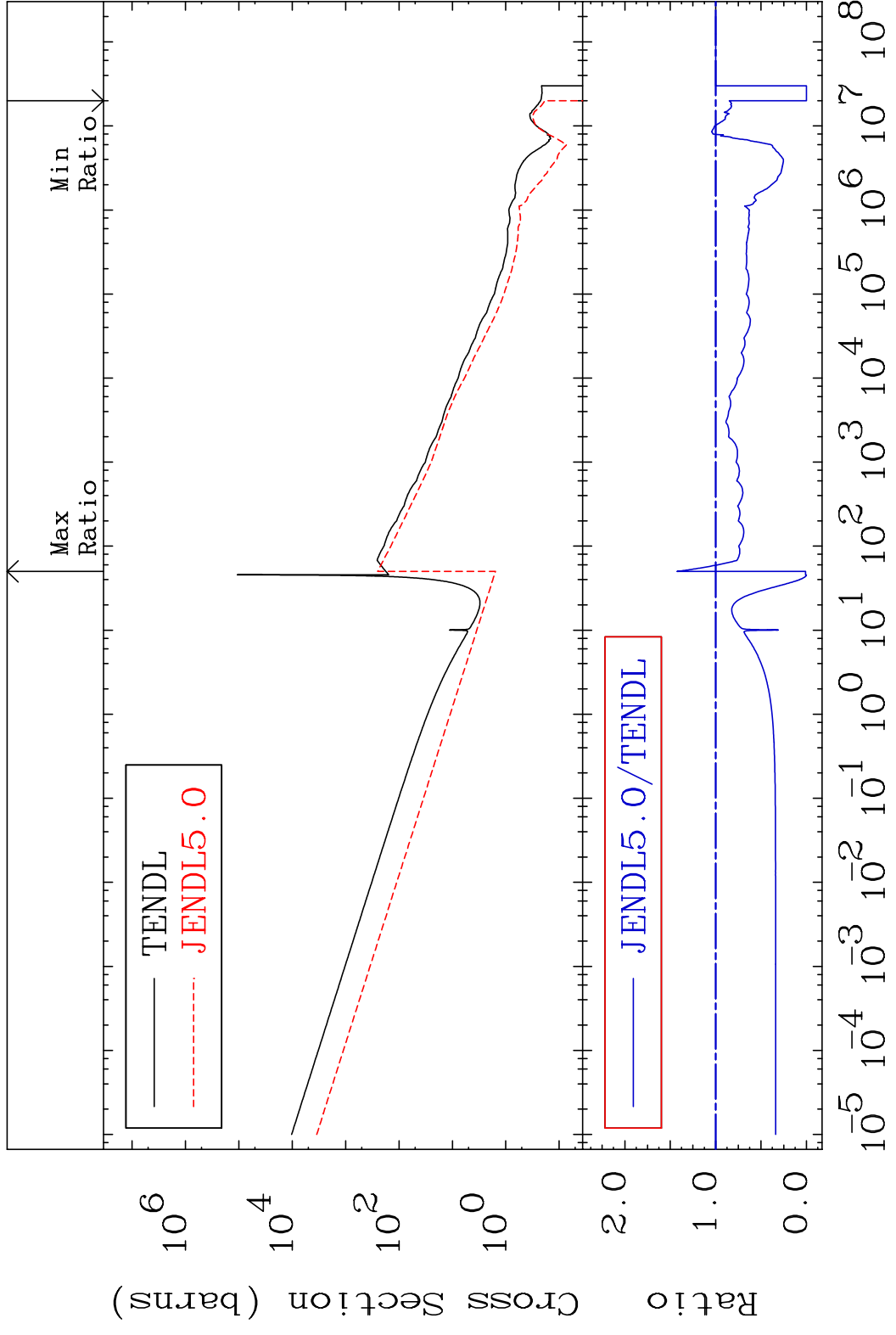
40 Incident Energy (eV) 50-Sn-123

MAT 5058 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-123
 Cross Section -110.0 To 9999. %

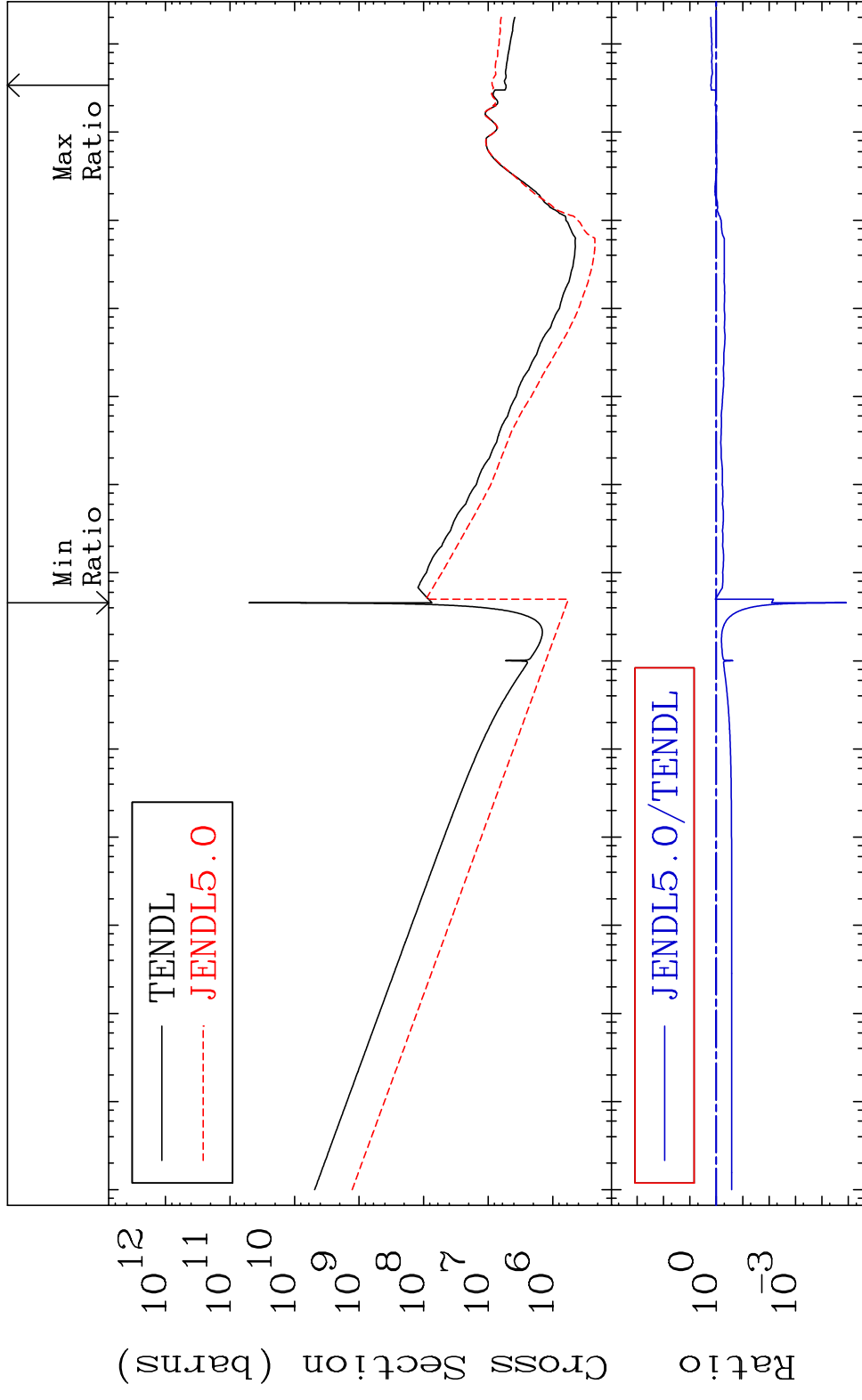


MAT 5058

Kerma capture (mt102) 50-Sn-123
Cross Section -100.0 To 42.34 %

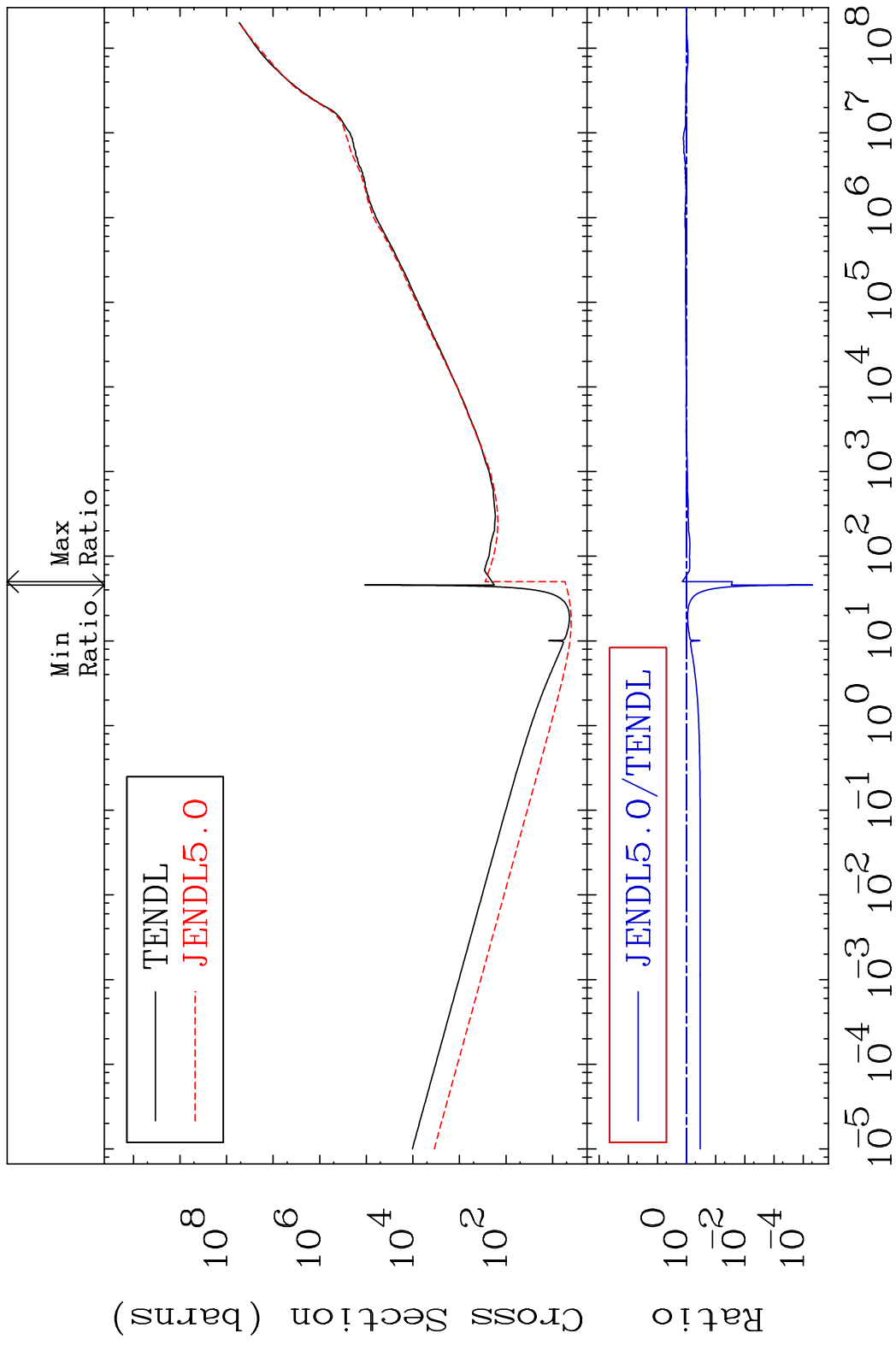


MAT 5058 Total photon (eV-barns) 50-Sn-123
 Cross Section -100.0 To 63.12 %



43 Incident Energy (eV) 50-Sn-123

MAT 5058 Total kinematic kerma (high limit) 50-Sn-123
 Cross Section -100.0 To 39.65 %

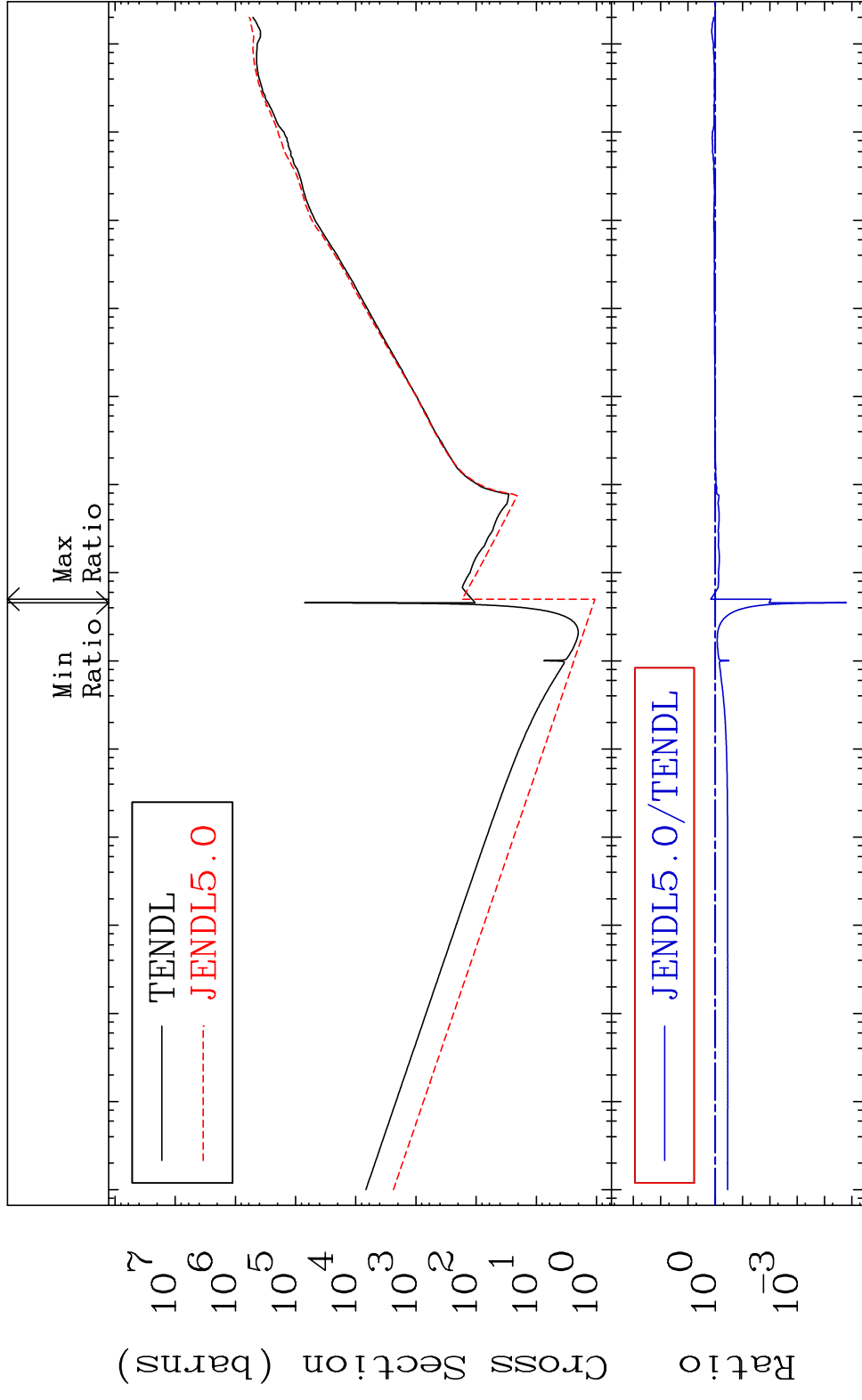


MAT 5058

Dpa total (eV-barns)

50-Sn-123

Cross Section -100.0 To 46.49 %

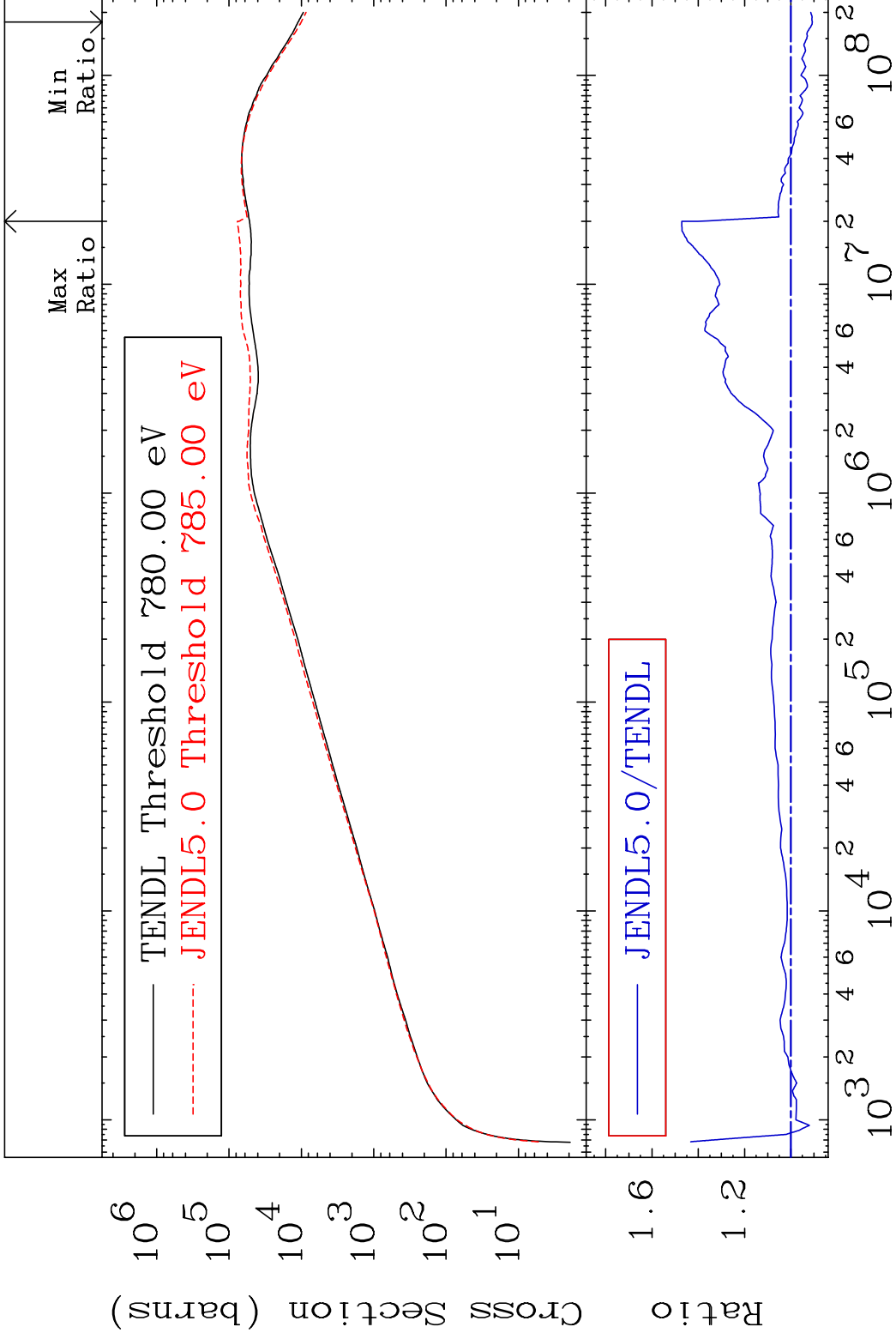


MAT 5058

Dpa elastic (mt2)

50-Sn-123

Cross Section -9.278 To 47.14 %

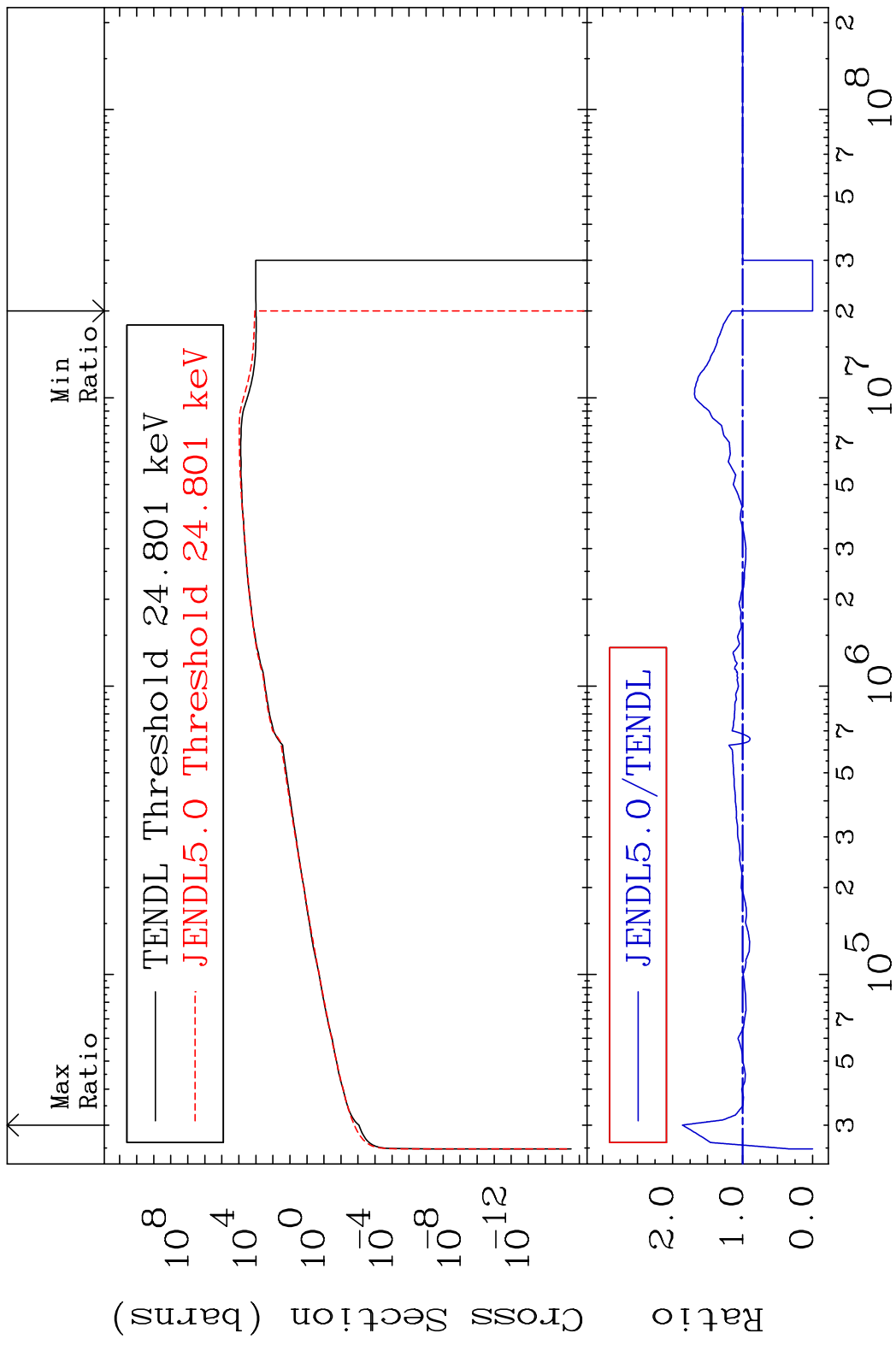


46

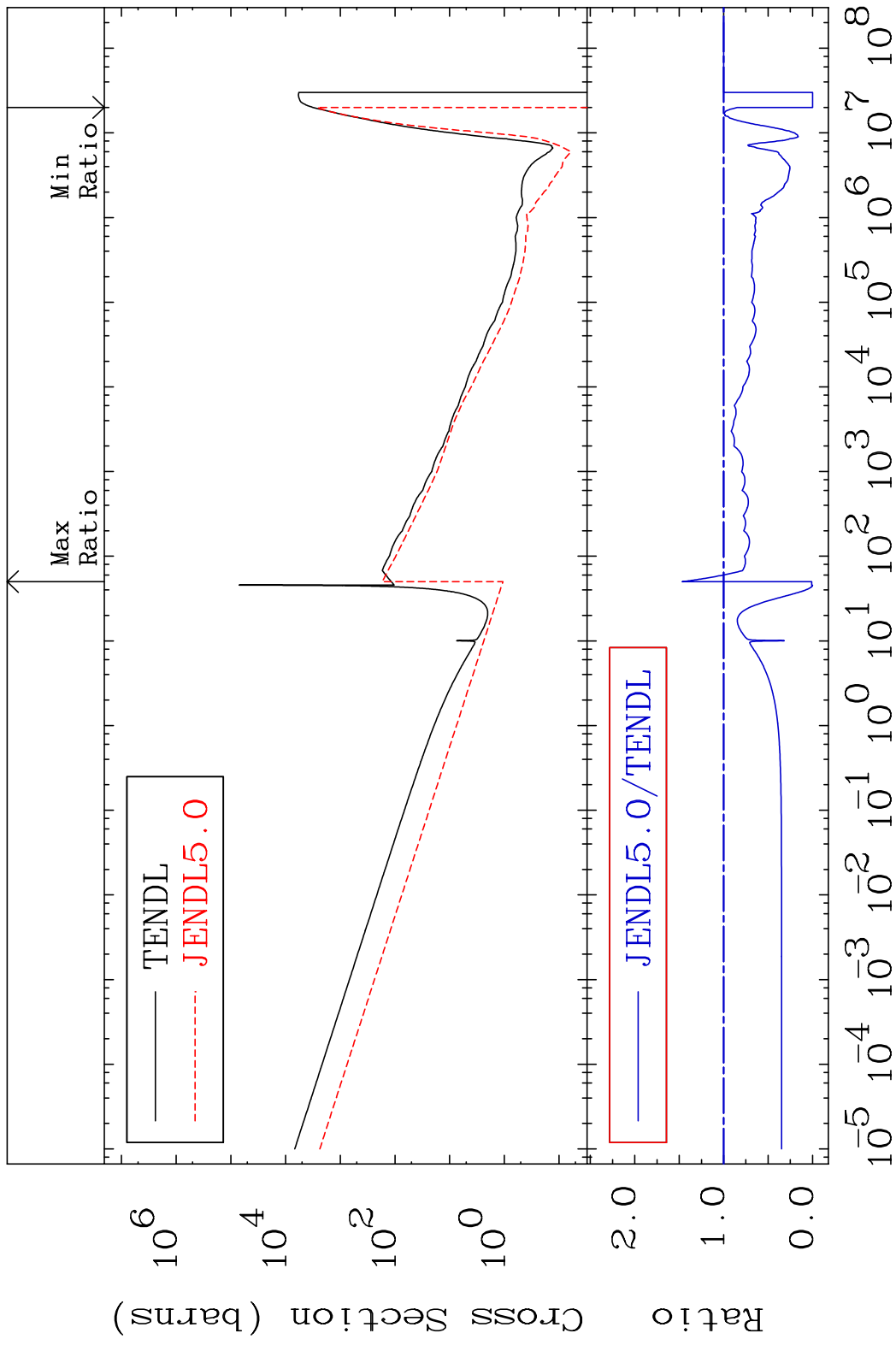
Incident Energy (eV)

50-Sn-123

MAT 5058 Dpa inelastic (mt51-91) 50-Sn-123
 Cross Section -100.0 To 85.97 %



MAT 5058 Dpa disappearance (mt102 -120) 50-Sn-123
 Cross Section -100.0 To 46.49 %

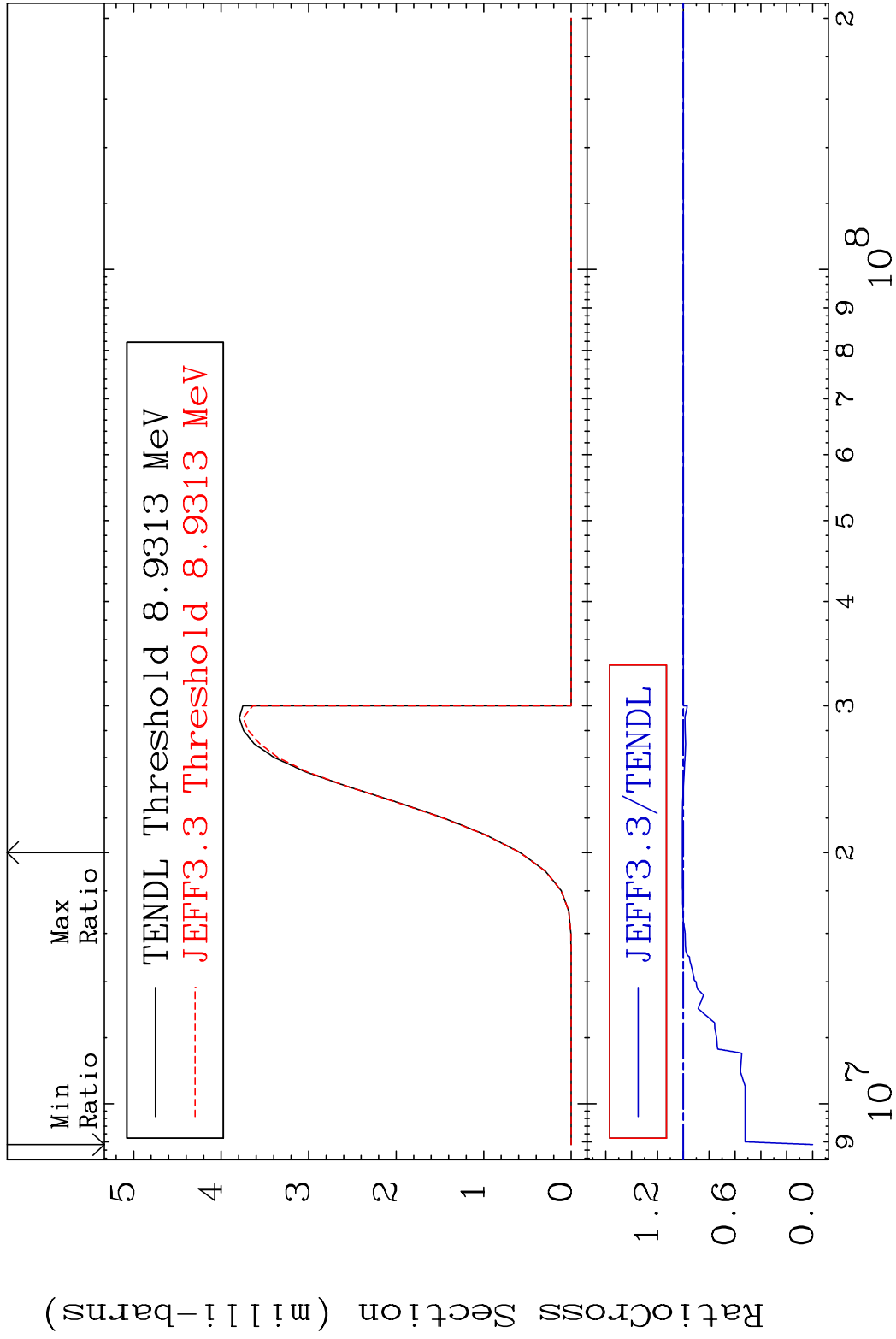


MAT 5058

(n, t)

50-Sn-123

Cross Section -100.0 To 0.750 %



49

Incident Energy (eV)

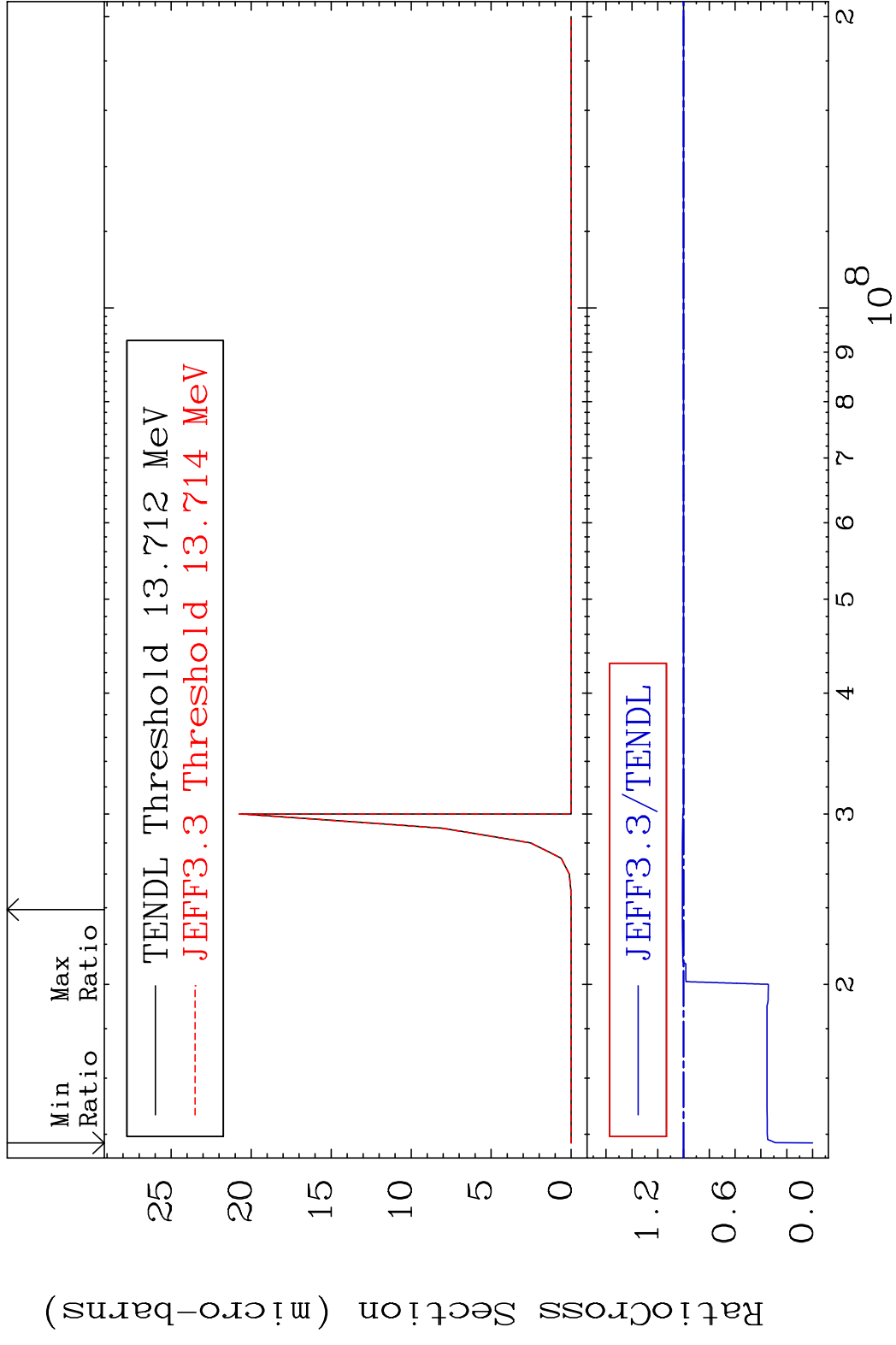
50-Sn-123

MAT 5058

(n, He-3)

50-Sn-123

Cross Section -100.0 To 0.894 %



50

Incident Energy (eV)

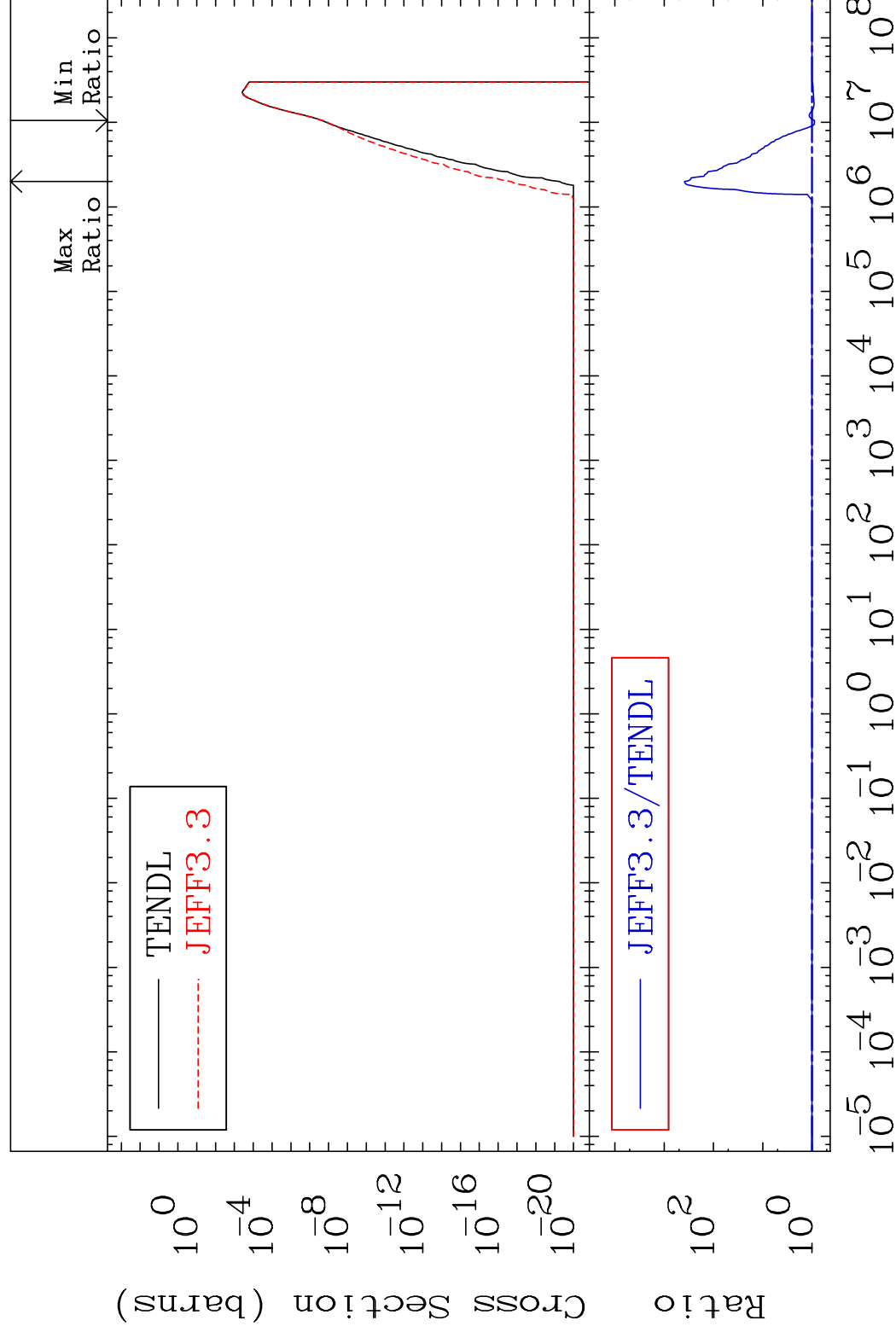
50-Sn-123

MAT 5058

(n, α)

50-Sn-123

Cross Section -10.93 To 9999. %

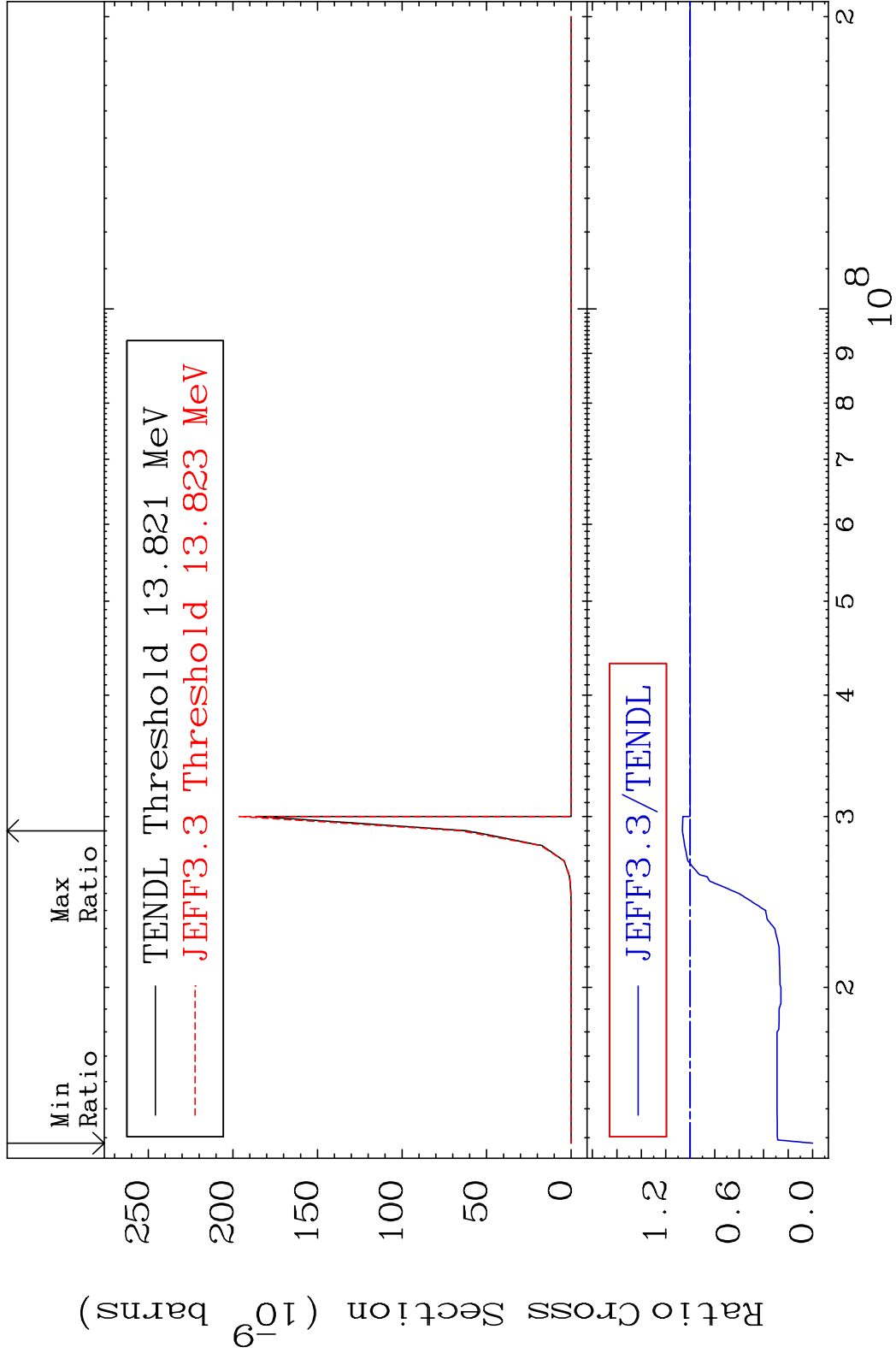


51

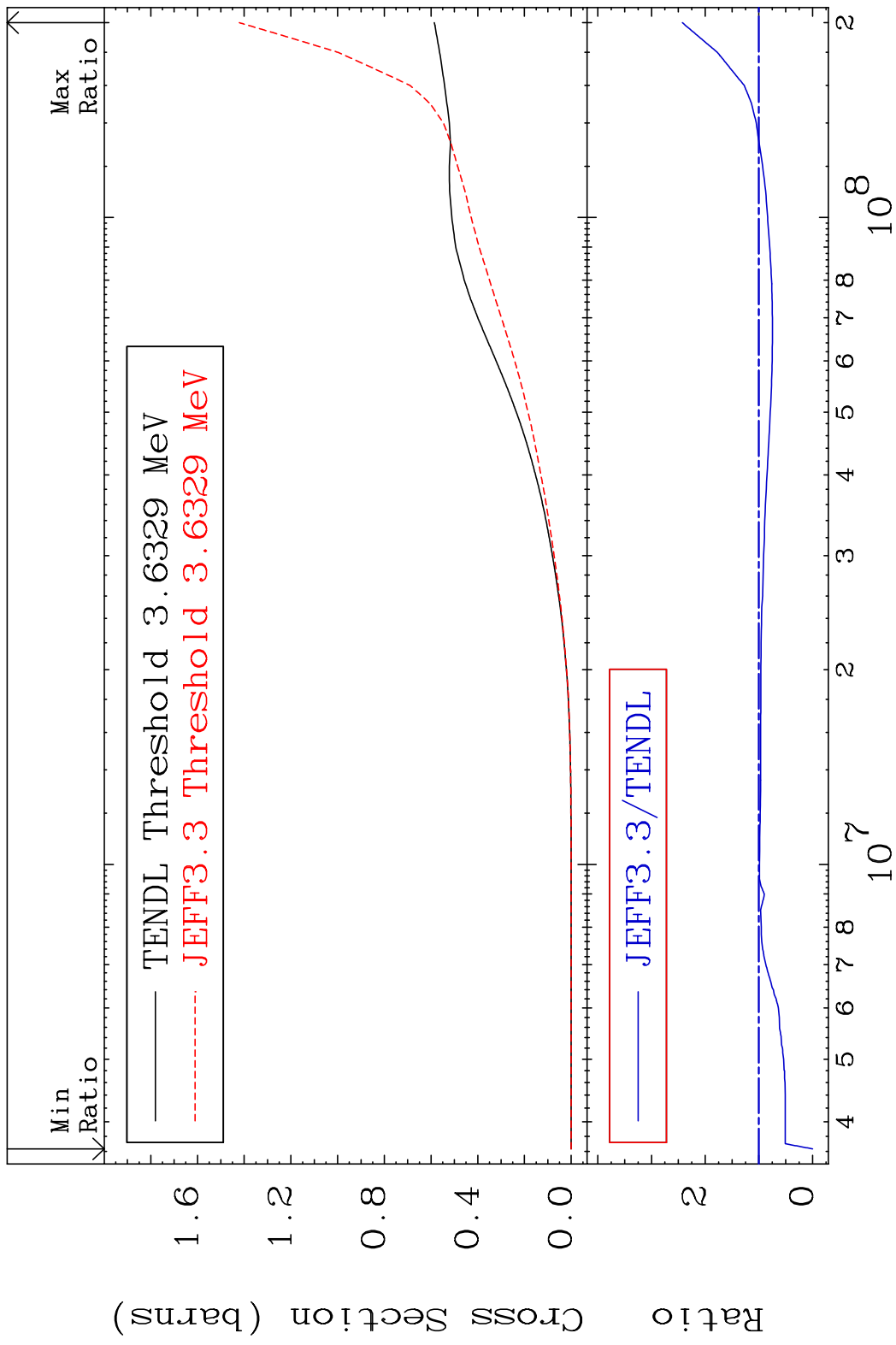
Incident Energy (eV)

50-Sn-123

MAT 5058 (n,2p) 50-Sn-123
 Cross Section -100.0 To 6.445 %



MAT 5058 Hydrogen Production 50-Sn-123
 Cross Section -100.0 To 142.5 %

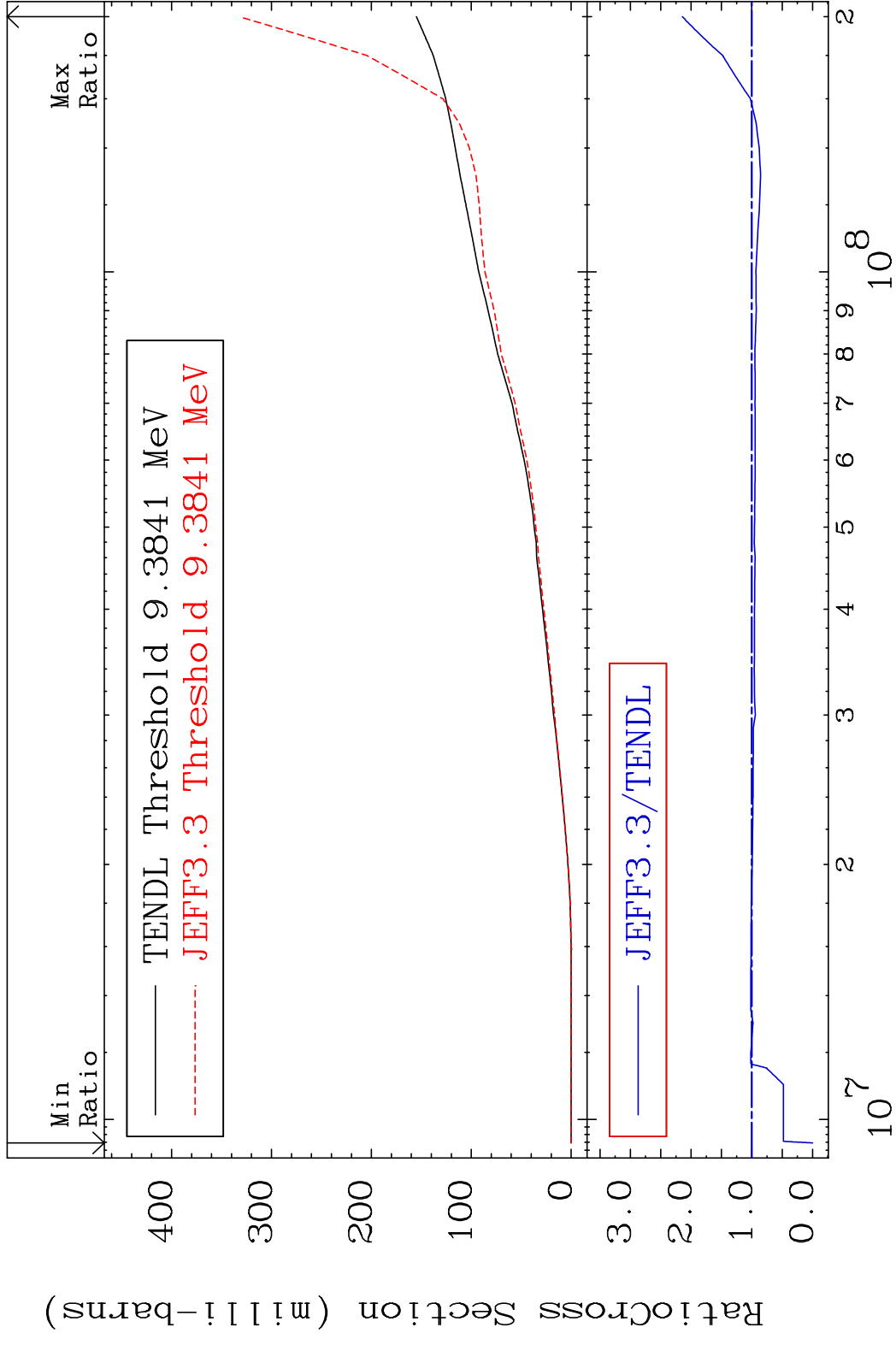


MAT 5058

Deuterium Production

50-Sn-123

Cross Section -100.0 To 114.4 %

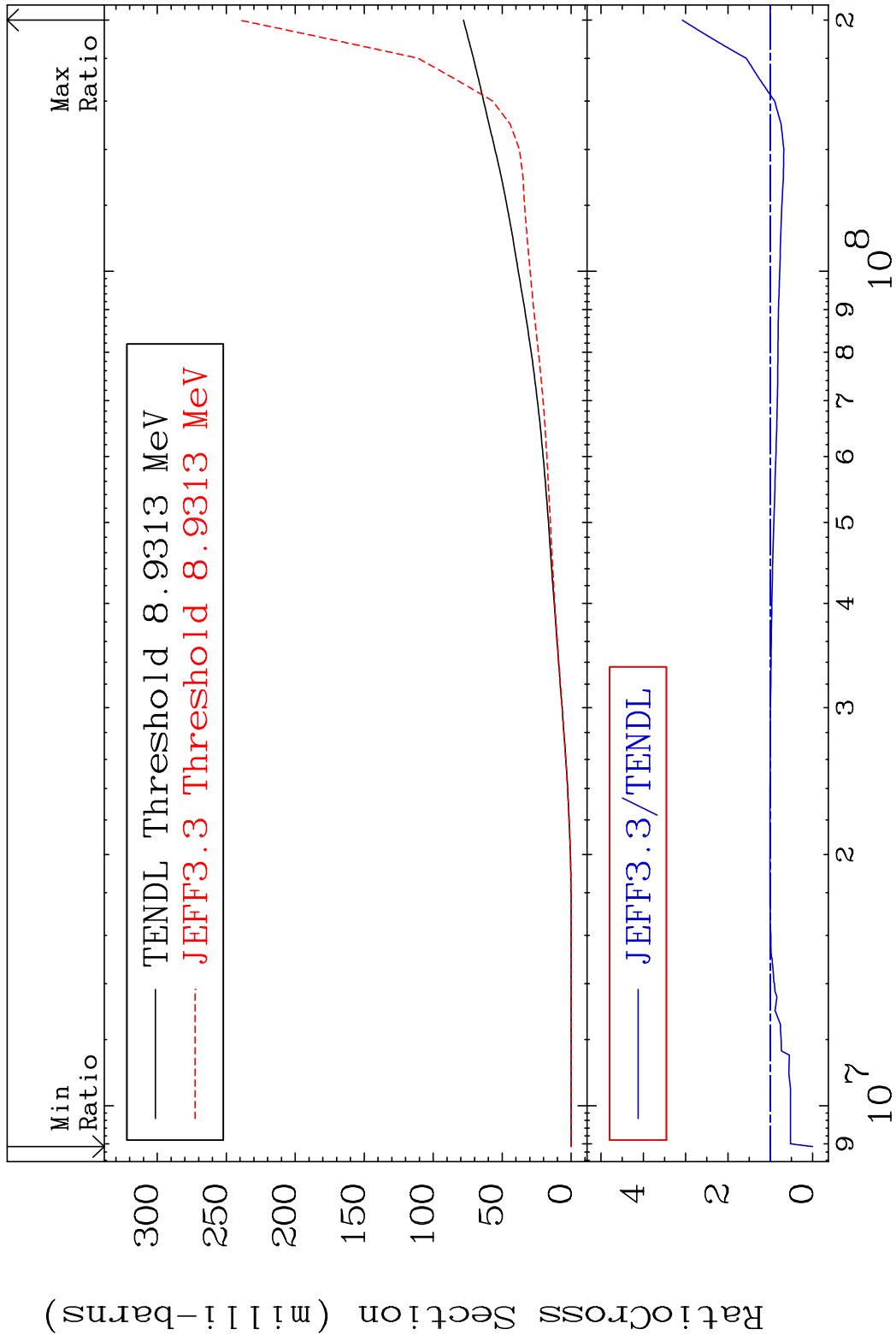


MAT 5058

Tritium Production

50-Sn-123

Cross Section -100.0 To 207.8 %



55

Incident Energy (eV)

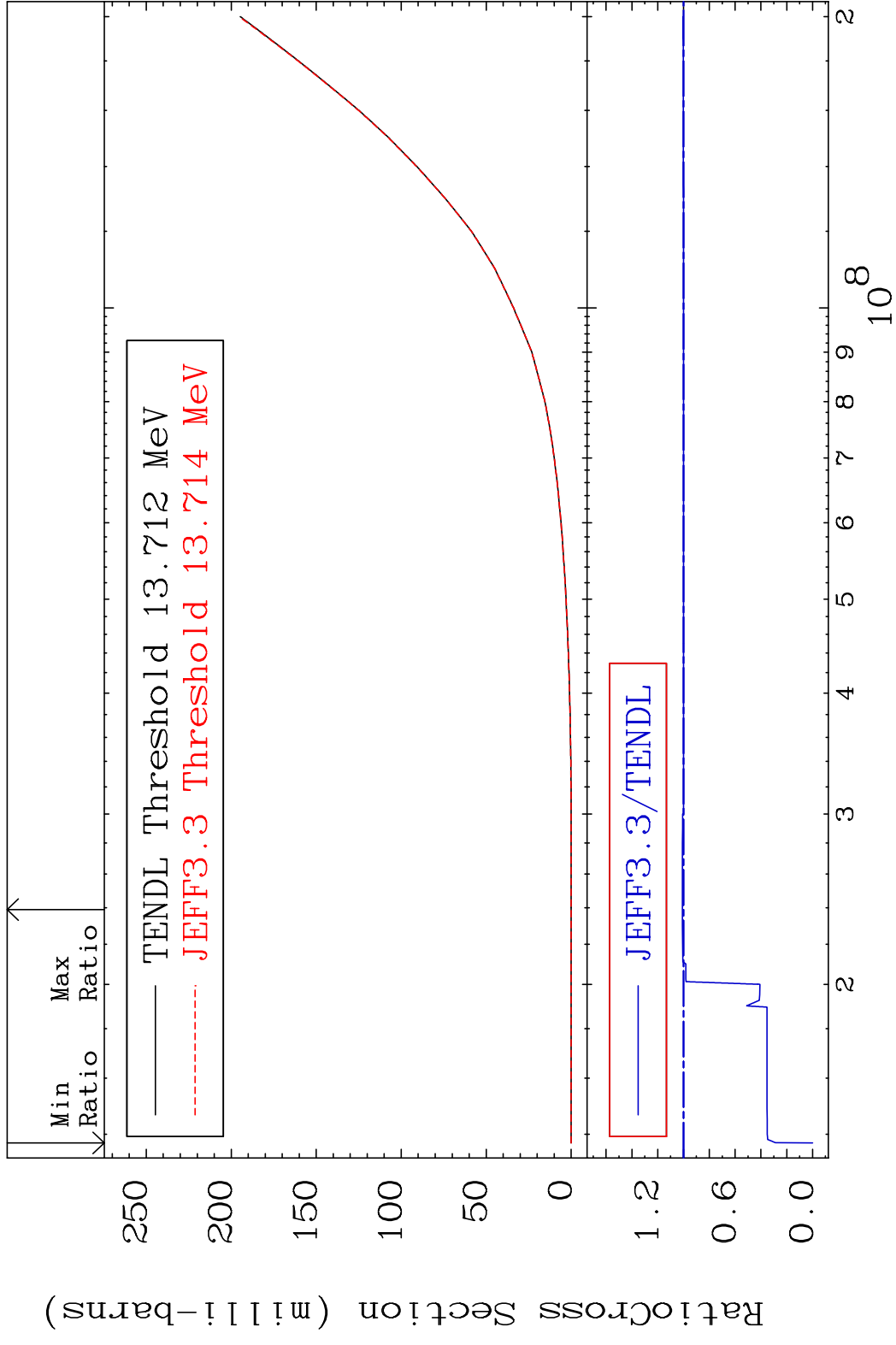
50-Sn-123

MAT 5058

He-3 Production

50-Sn-123

Cross Section -100.0 To 0.894 %



56

Incident Energy (eV)

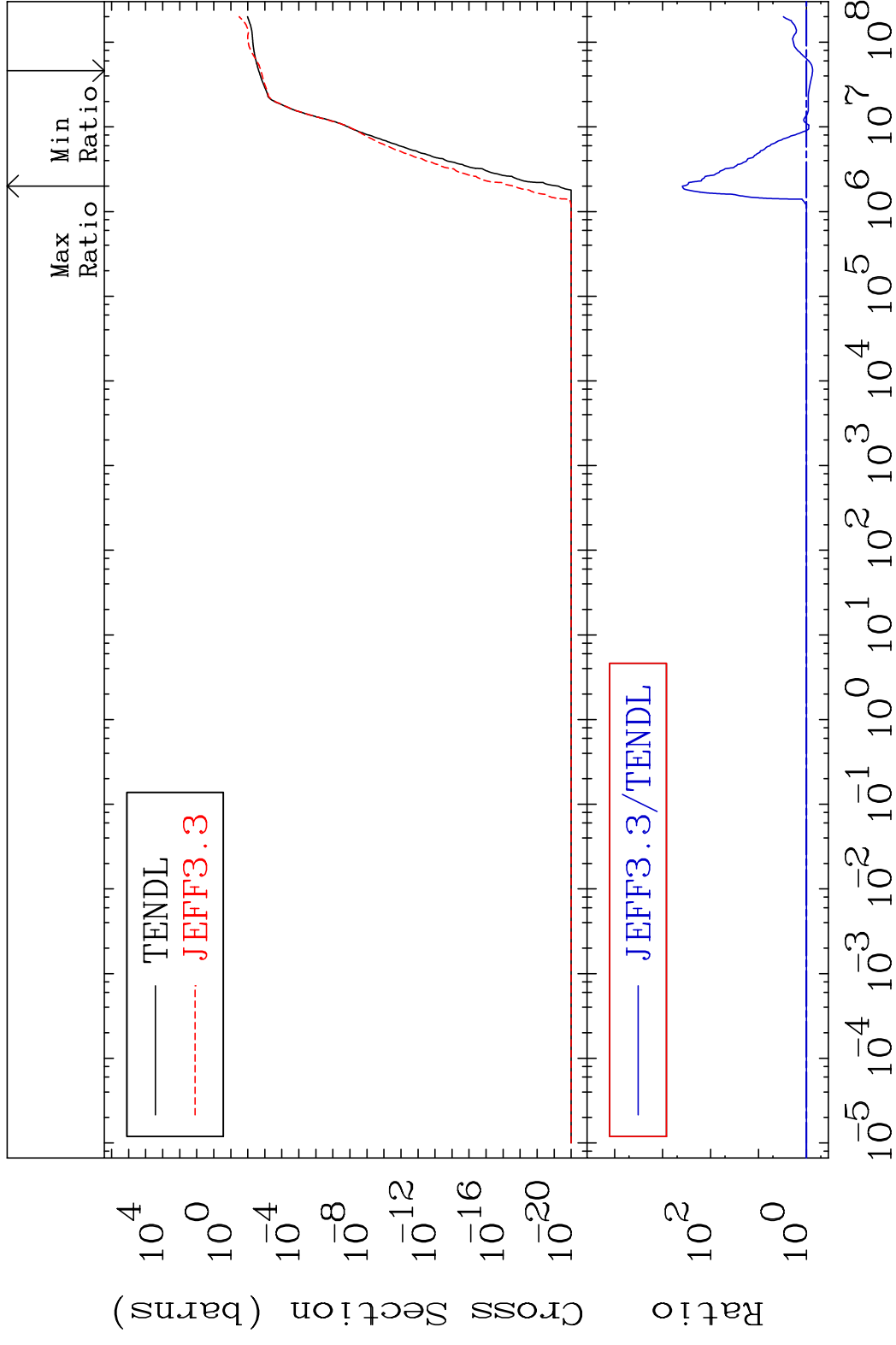
50-Sn-123

MAT 5058

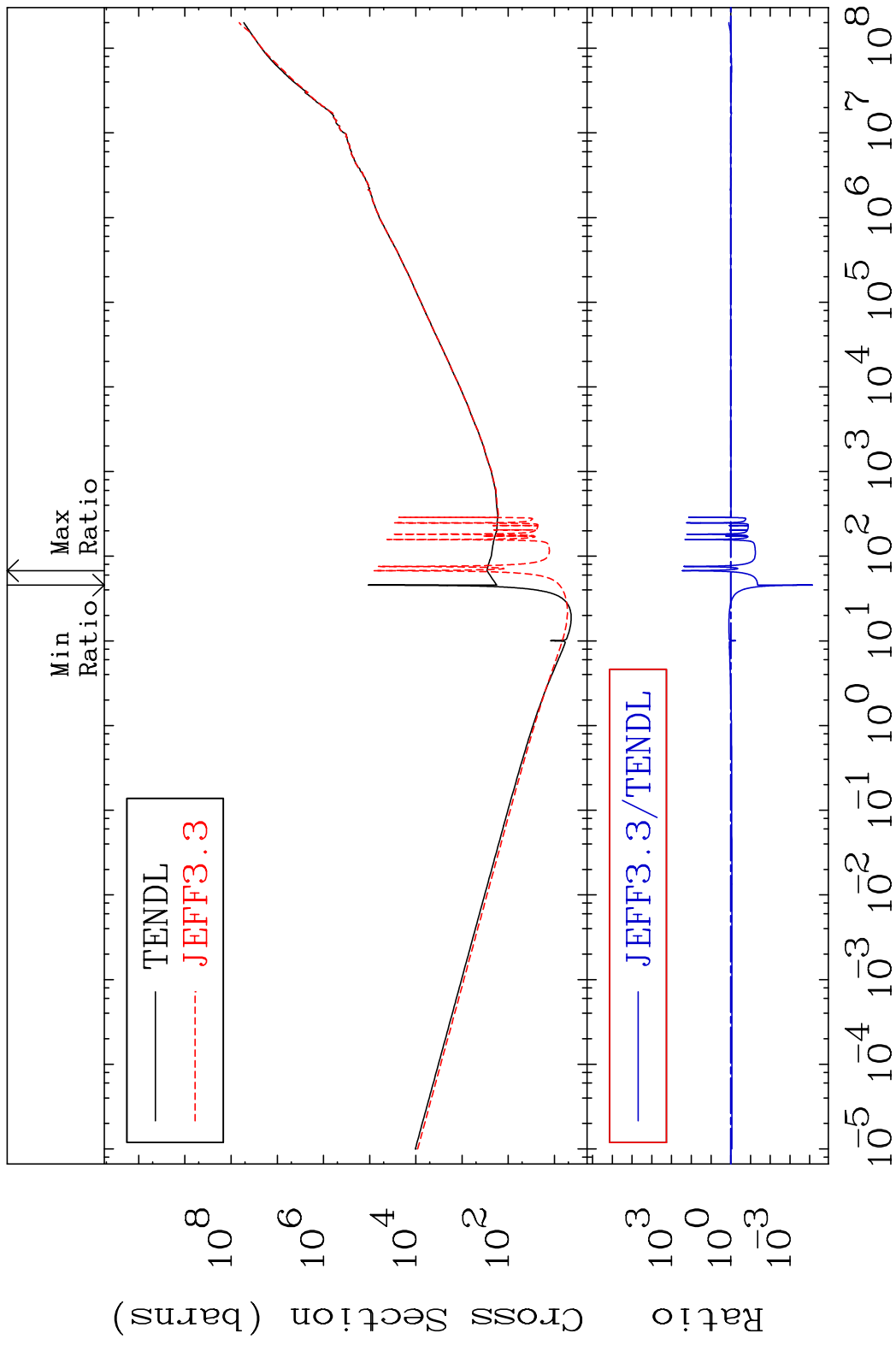
He-4 Production

50-Sn-123

Cross Section -25.40 To 9999. %



MAT 5058 Kerma total (eV-barns) 50-Sn-123
 Cross Section -99.99 To 9999. %



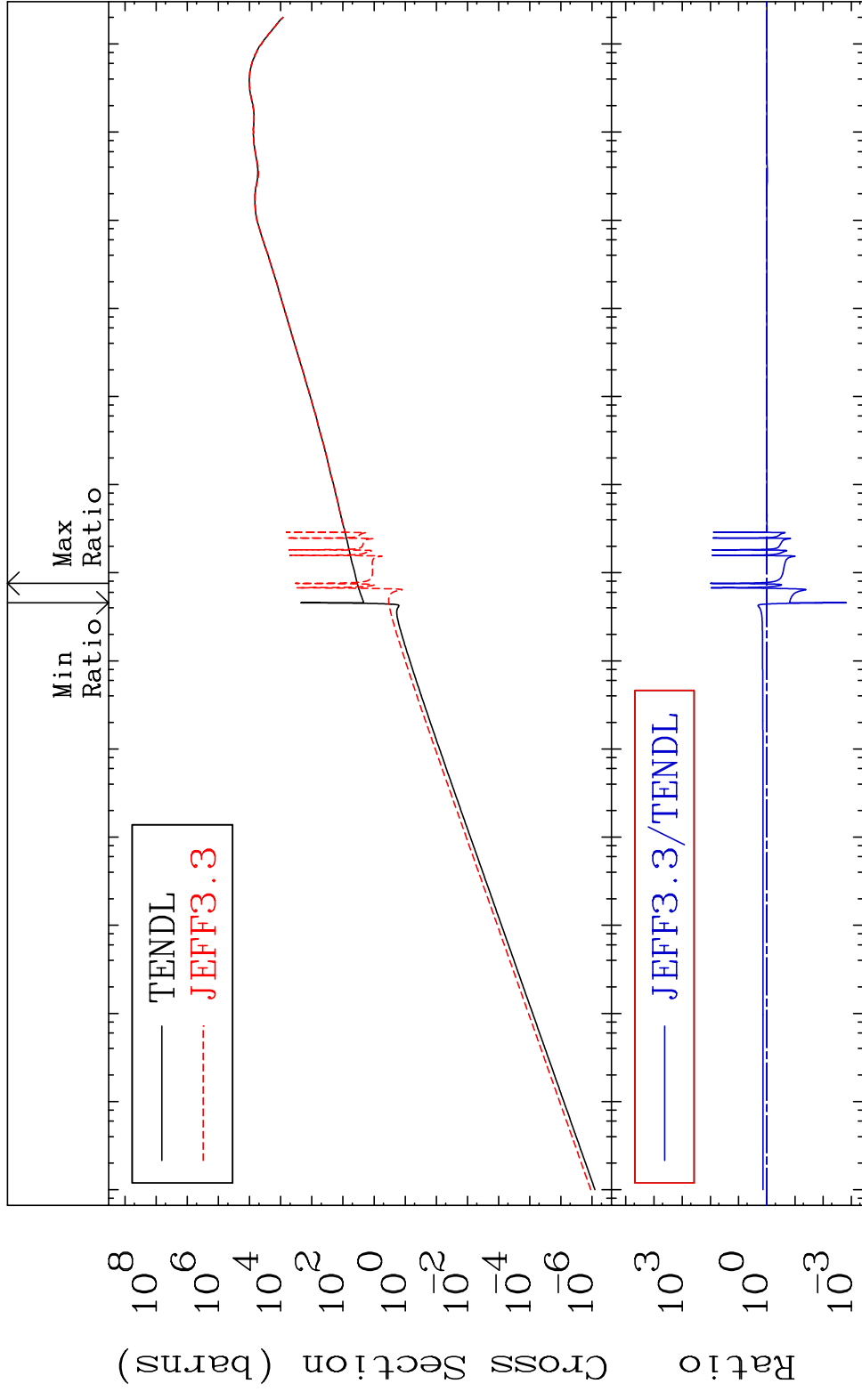
MAT 5058

Kerma elastic

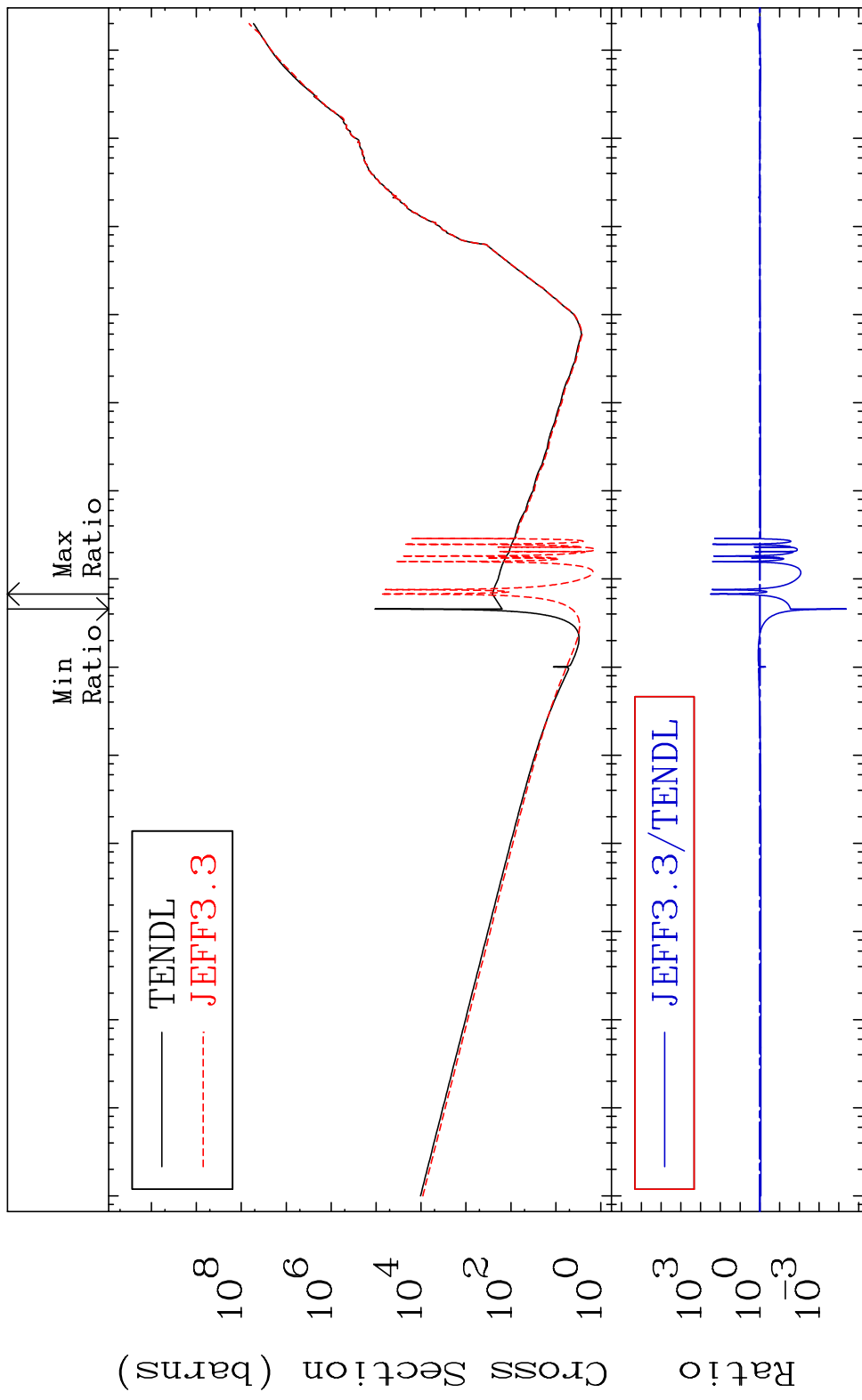
50-Sn-123

Cross Section

-99.85 To 9655. %

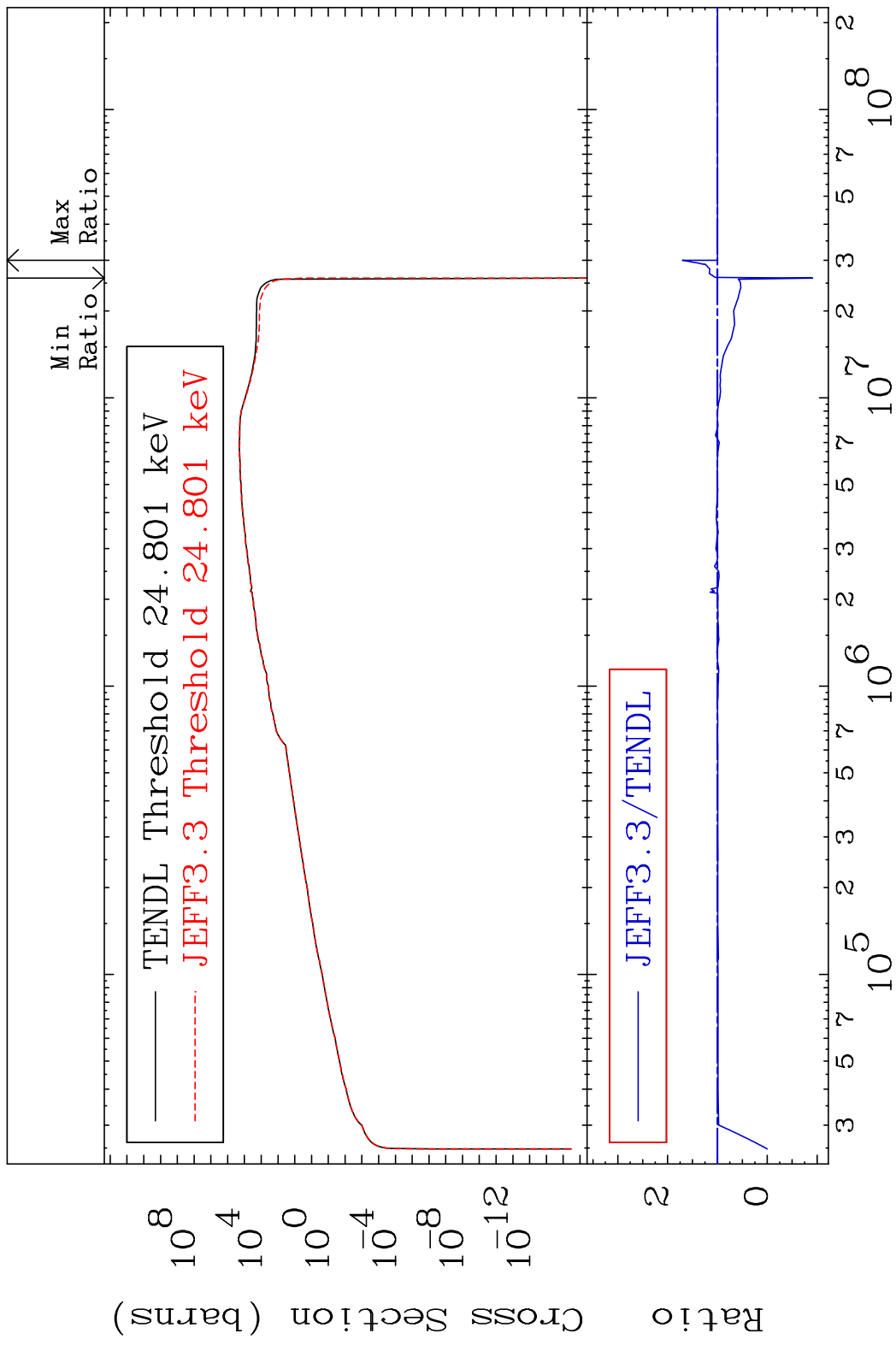


MAT 5058 Kerma non-elastic (all but mt2) 50-Sn-123
 Cross Section -100.0 To 9999. %

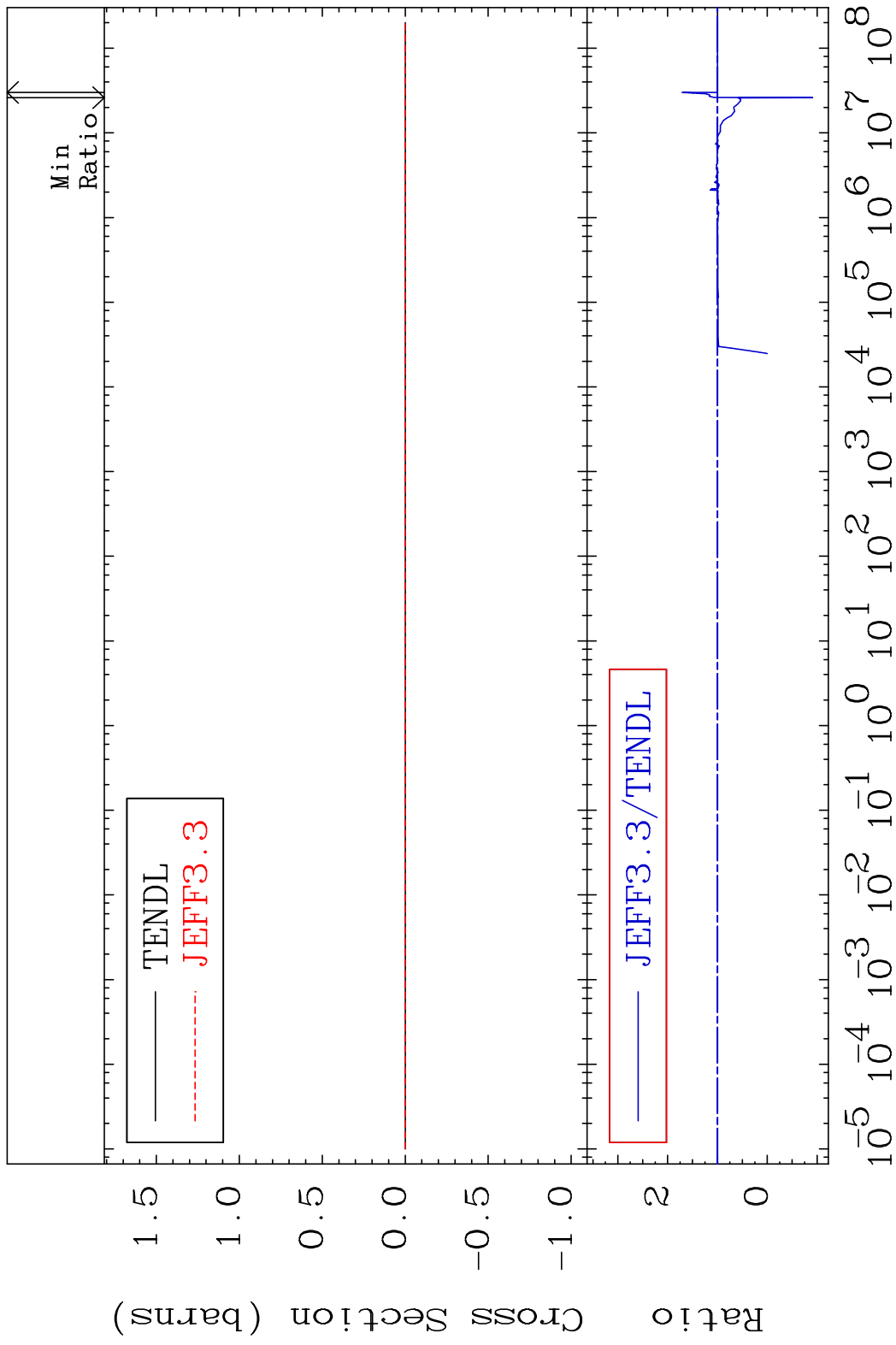


60 Incident Energy (eV) 50-Sn-123

MAT 5058 Kerma inelastic (mt51-91) 50-Sn-123
 Cross Section -190.9 To 70.43 %



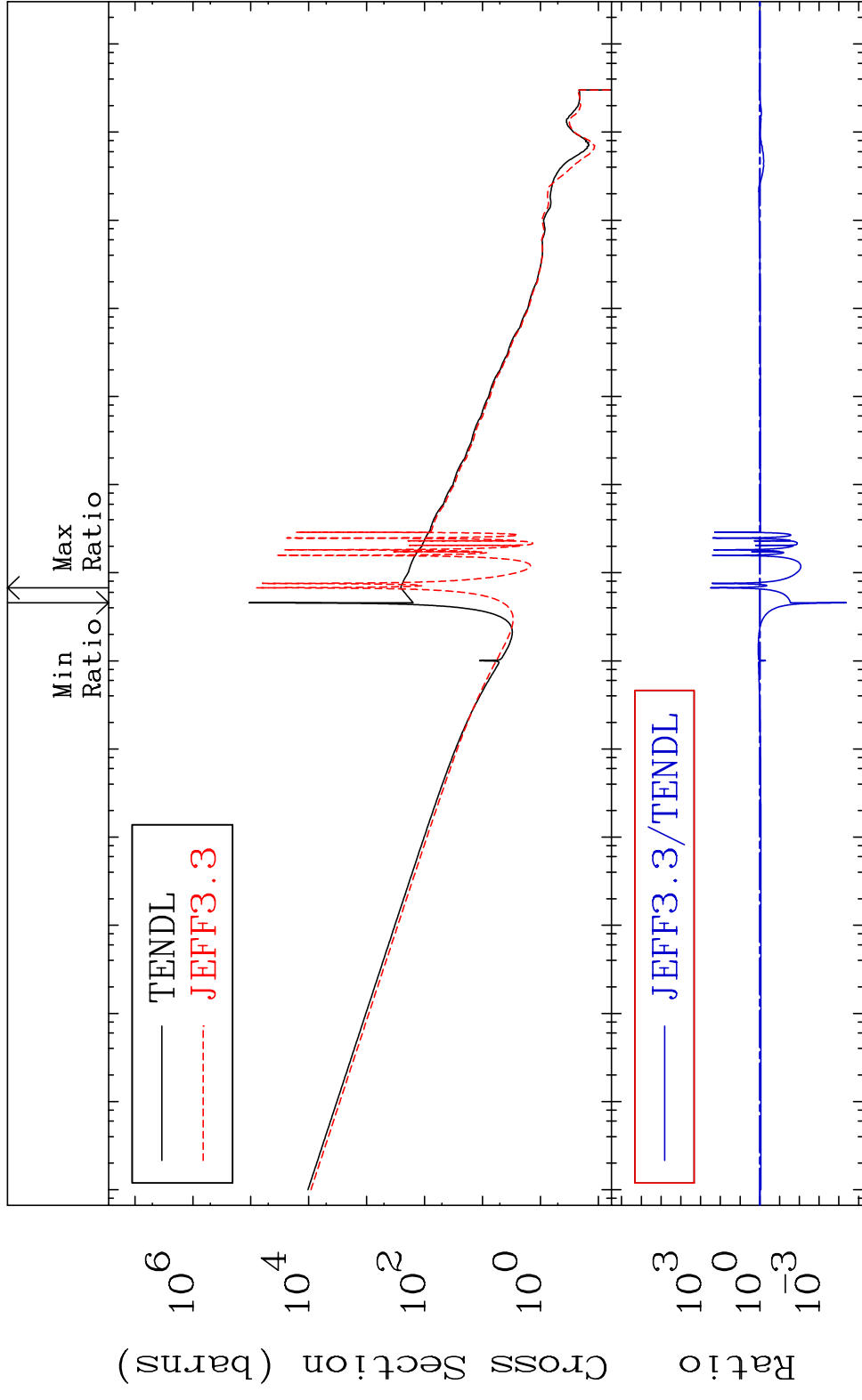
MAT 5058 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-123
 Cross Section -190.9 To 70.43 %



MAT 5058

Kerma capture (mt102) 50-Sn-123

Cross Section -100.0 To 9999. %



63

Incident Energy (eV)

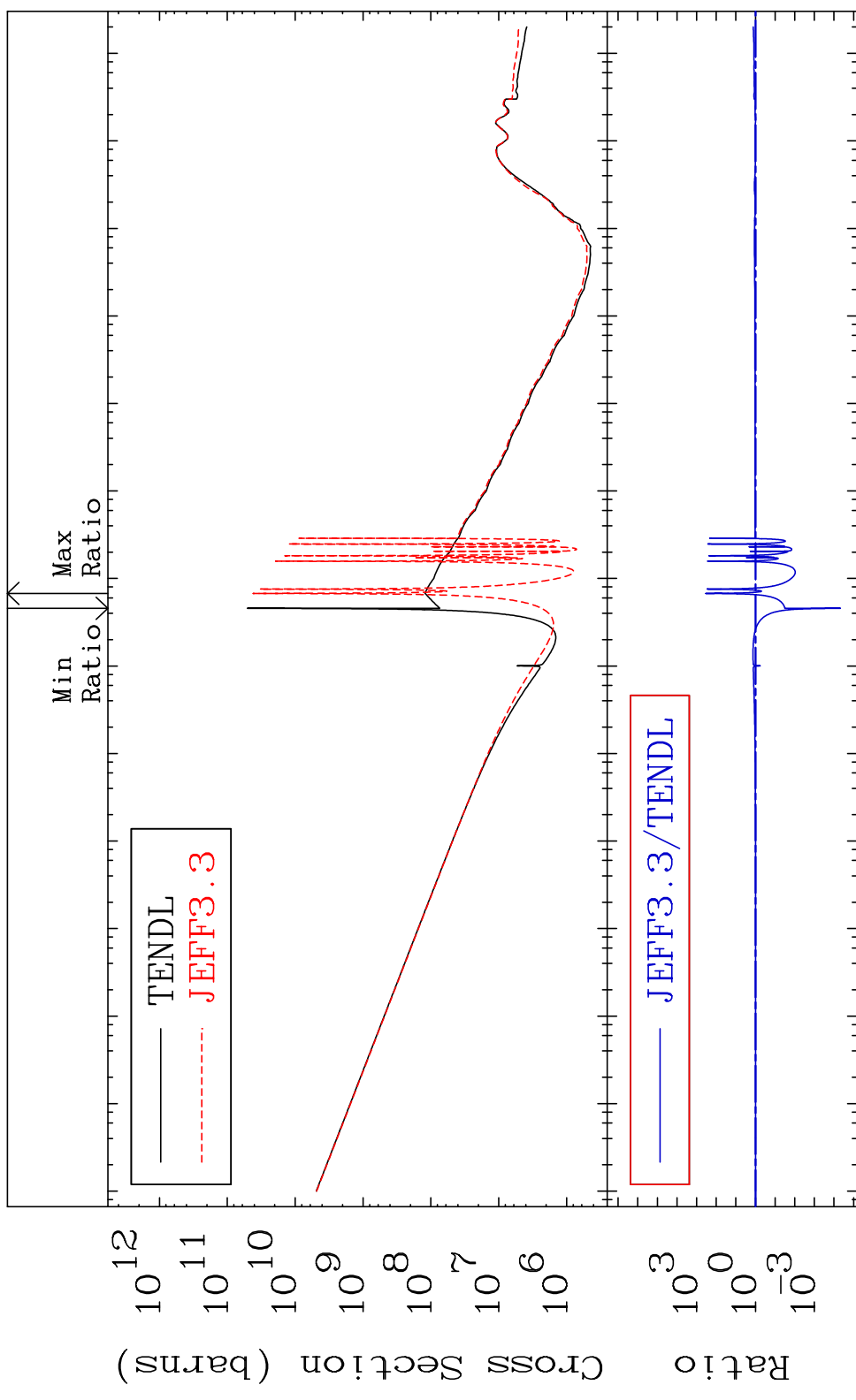
50-Sn-123

MAT 5058

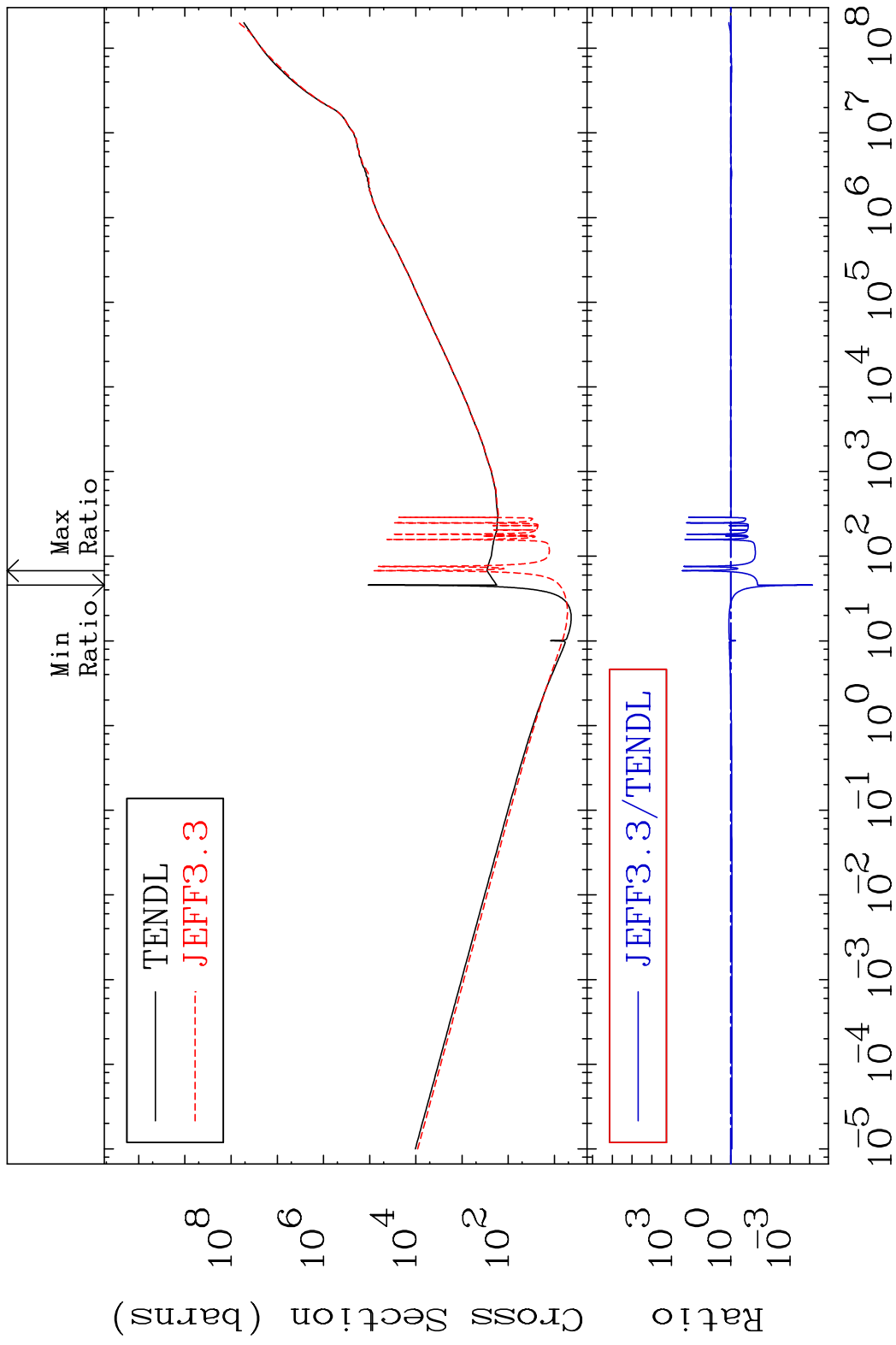
Total photon (eV-barns)

50-Sn-123

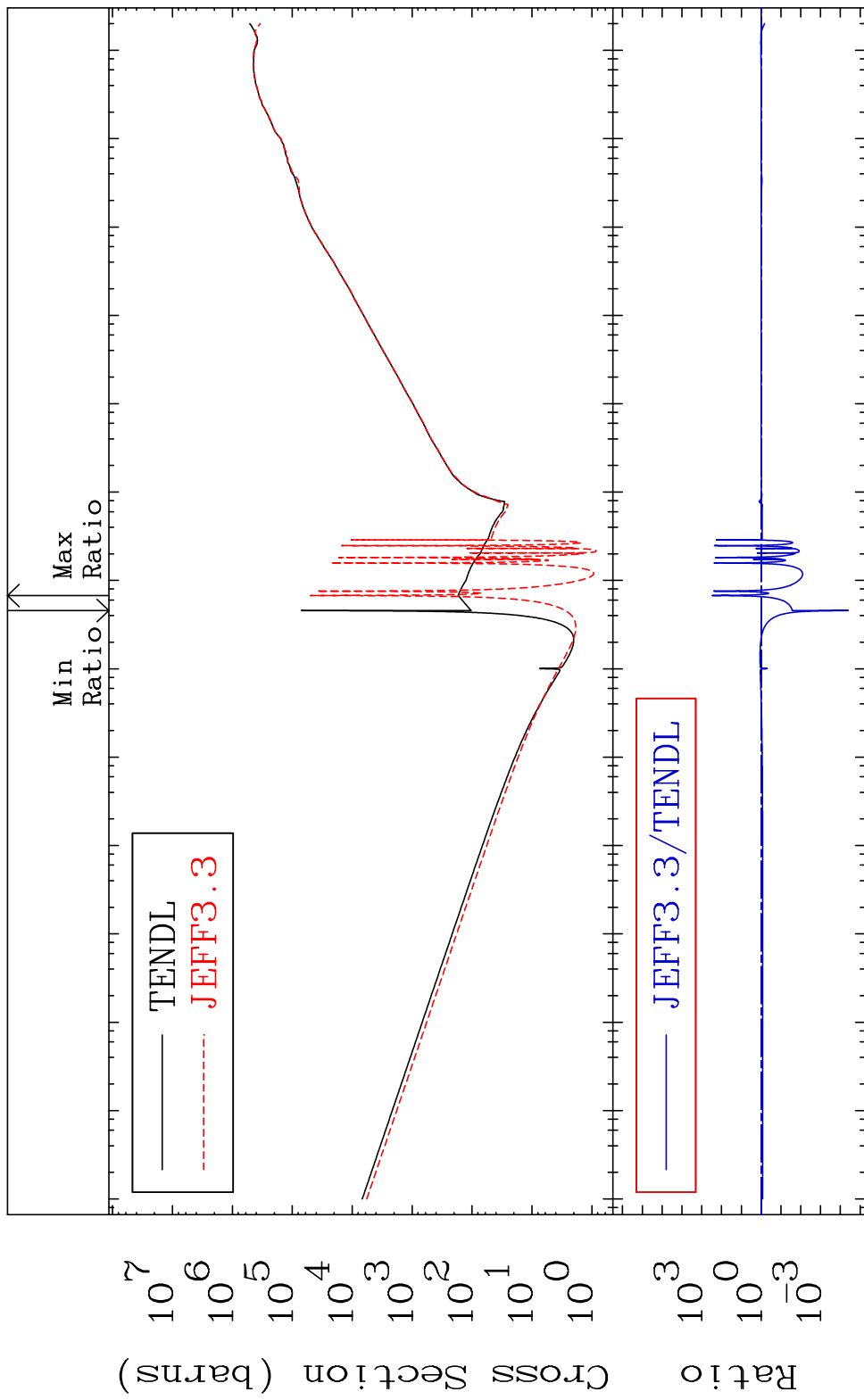
Cross Section -100.0 To 9999. %



MAT 5058 Total kinematic kerma (high limit) 50-Sn-123
 Cross Section -99.99 To 9999. %



MAT 5058 Dpa total (eV-barns) 50-Sn-123
 Cross Section -100.0 To 9999. %

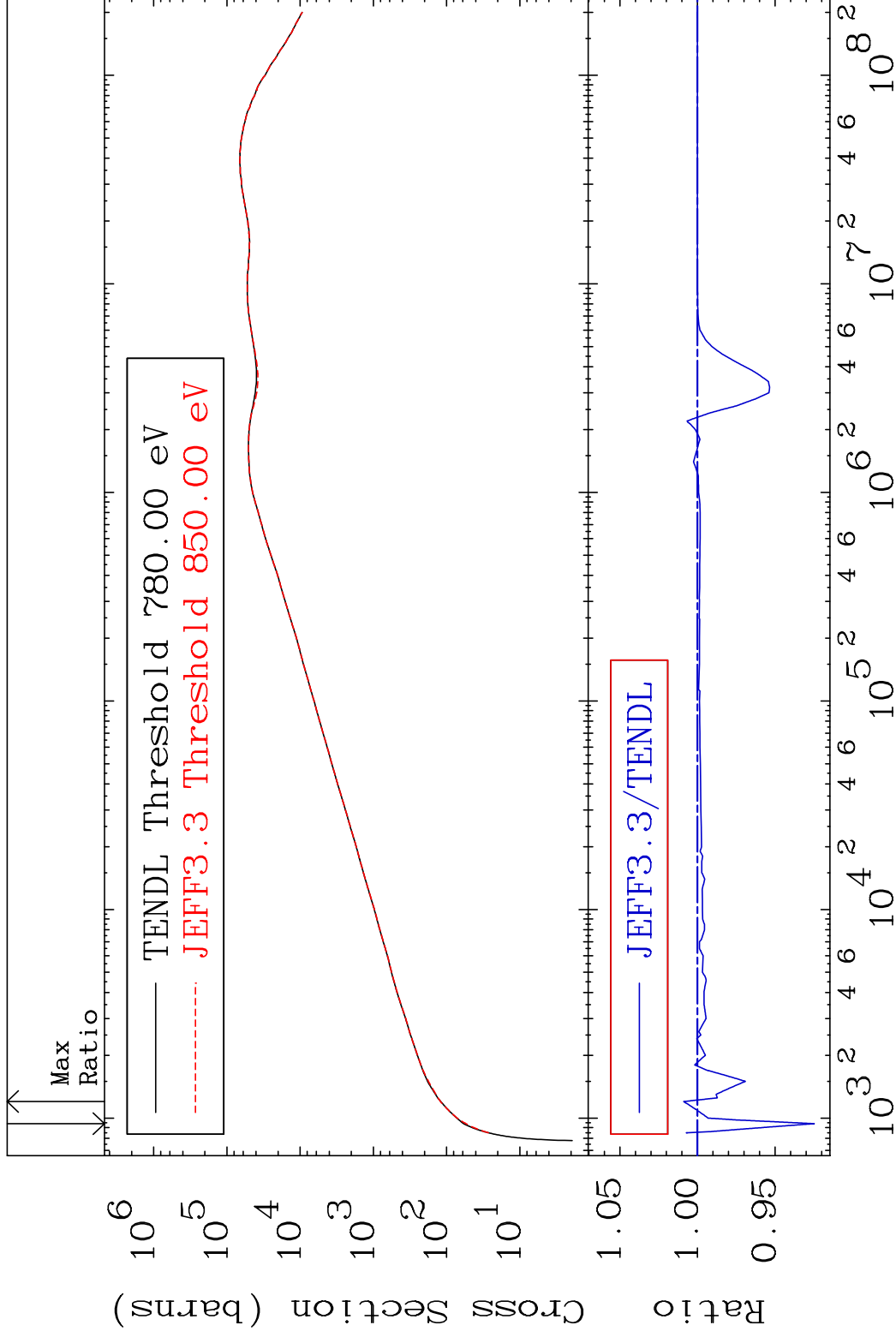


MAT 5058

Dpa elastic (mt2)

50-Sn-123

Cross Section -7.517 To 0.890 %



67

Incident Energy (eV)

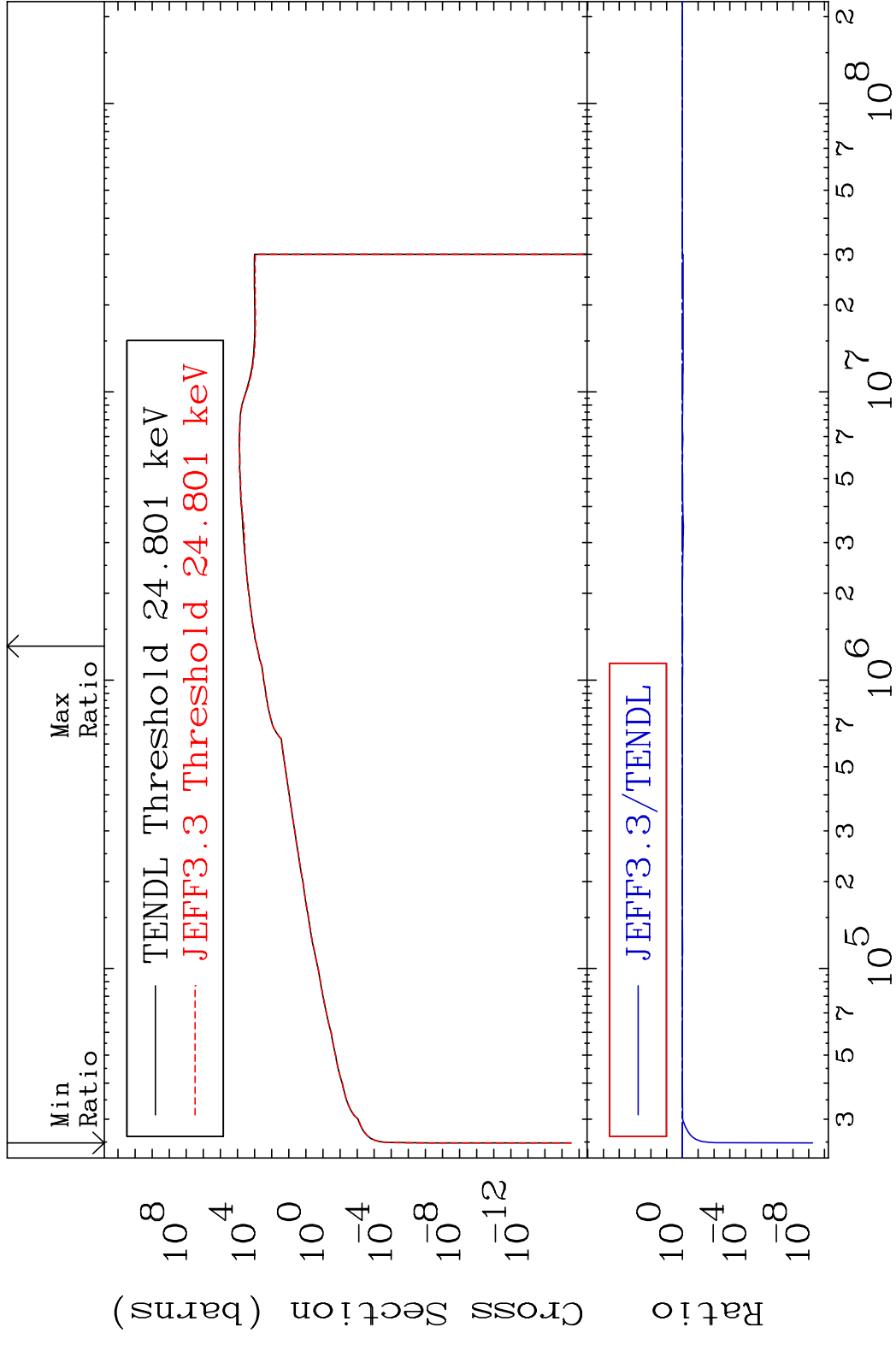
50-Sn-123

MAT 5058

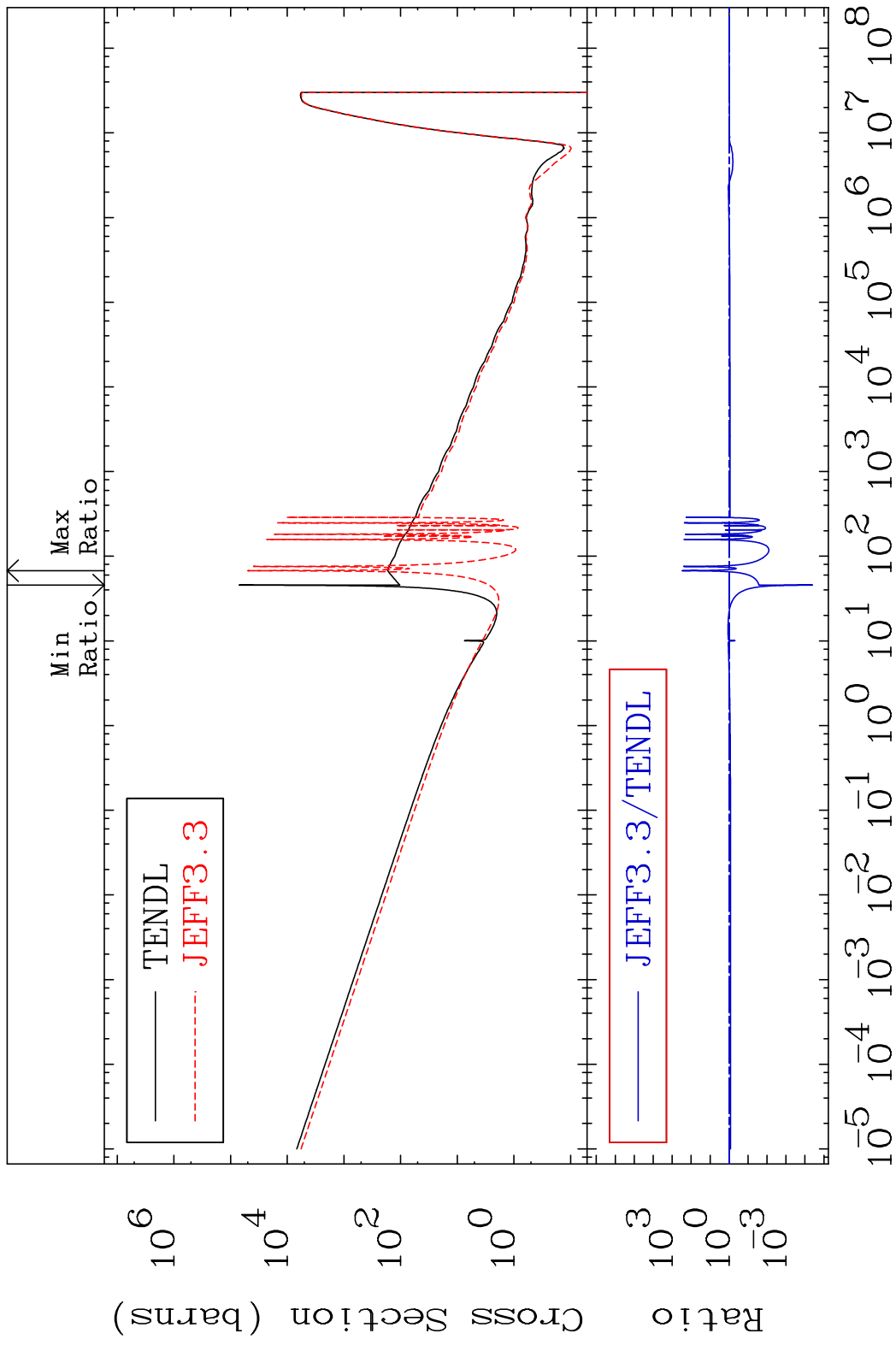
Dpa inelastic (mt51-91)

50-Sn-123

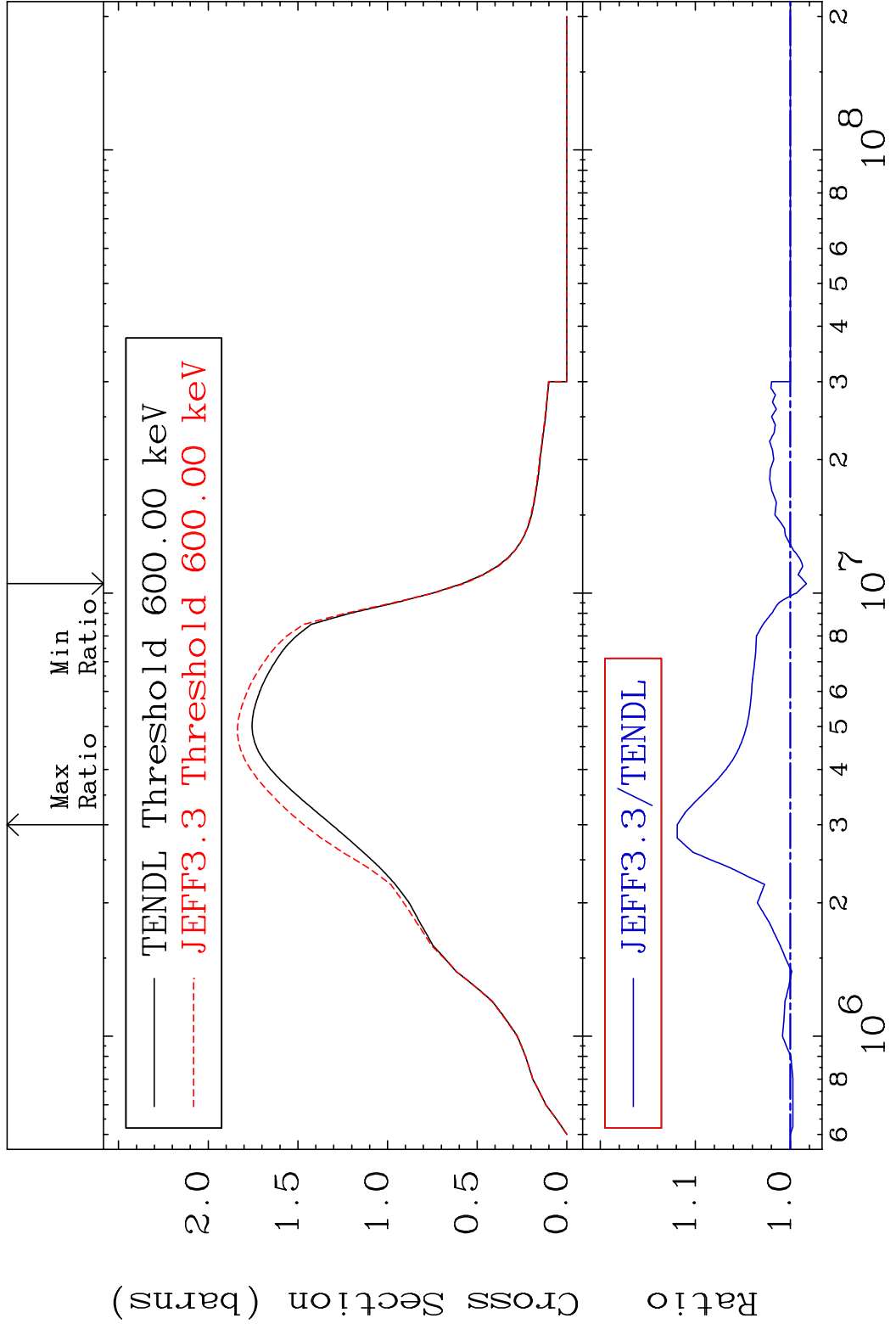
Cross Section -100.0 To 0.938 %



MAT 5058 Dpa disappearance (mt102 -120) 50-Sn-123
 Cross Section -100.0 To 9999. %

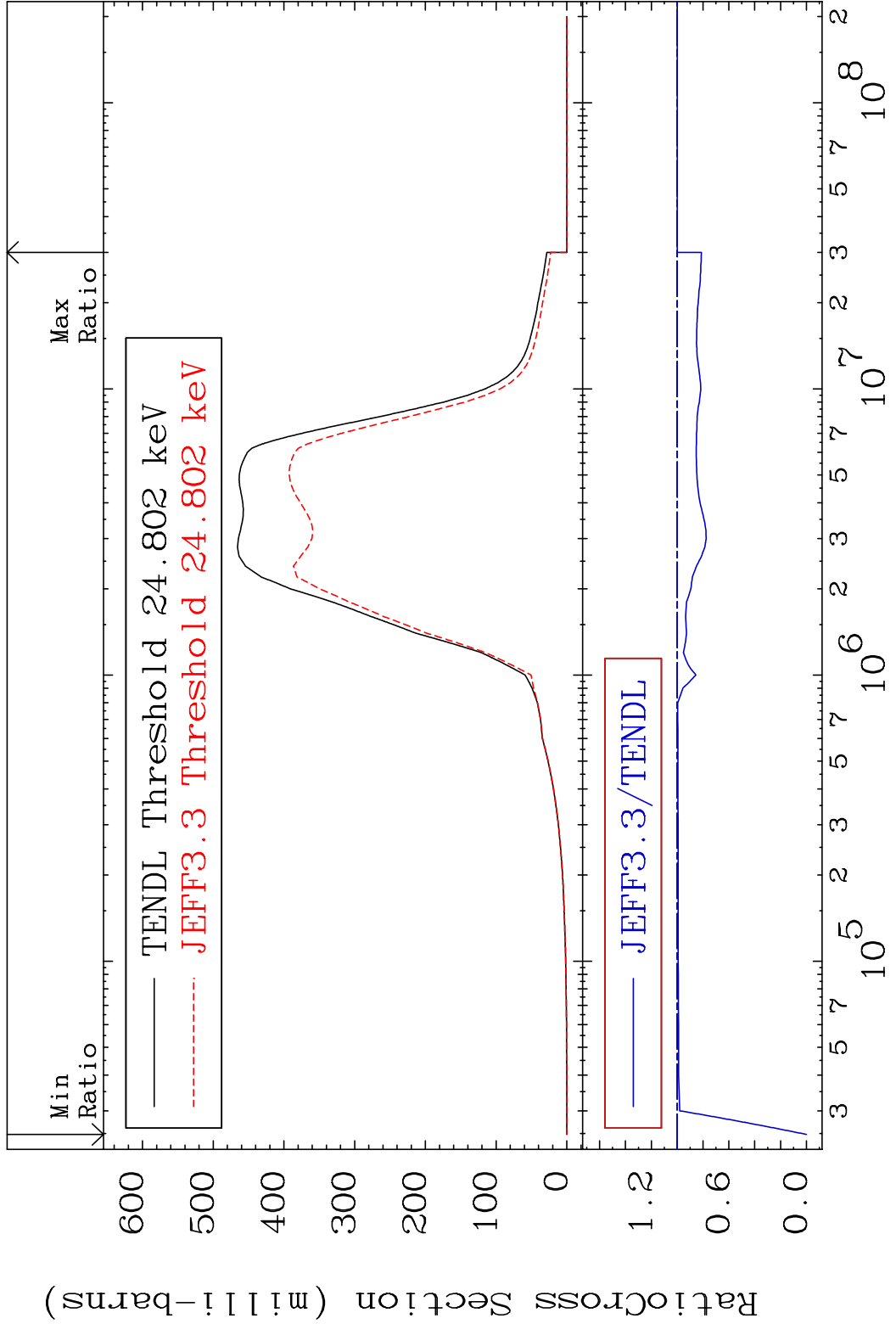


MAT 5058 Inelastic:50-Sn-123g 50-Sn-123
 Radionuclide Production Cross Section 16.99% 11.91 %

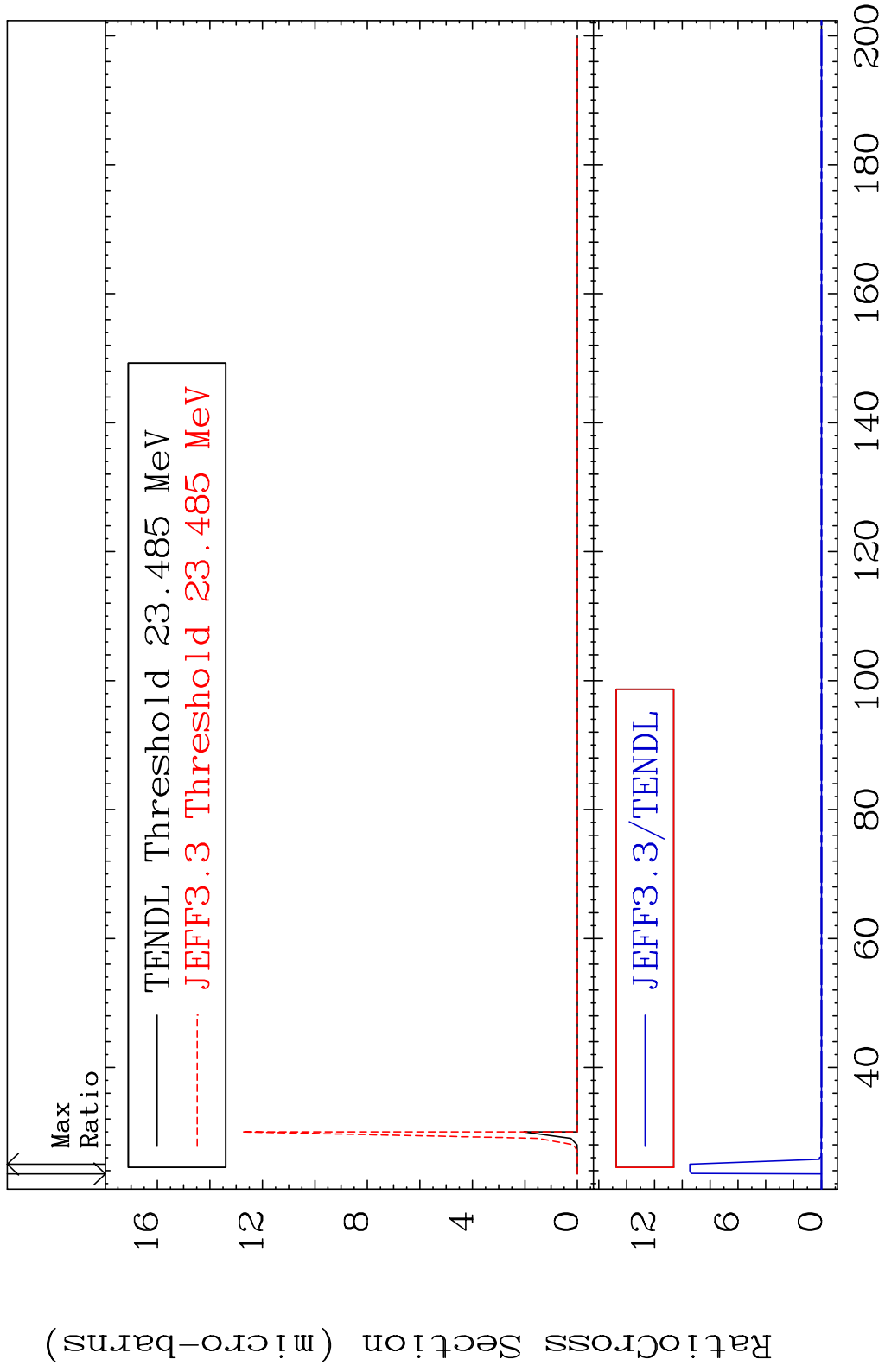


70 Incident Energy (eV) 50-Sn-123

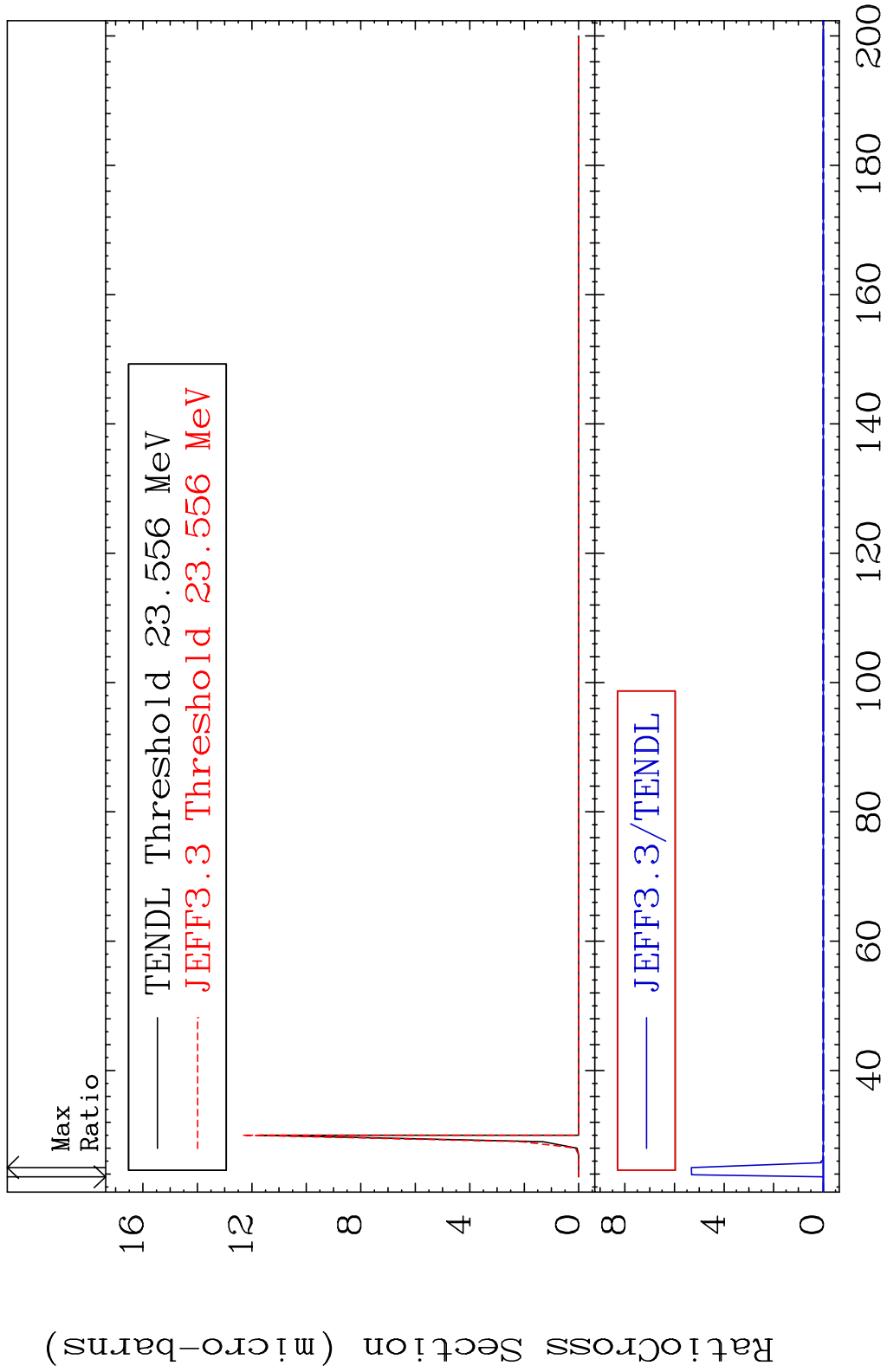
MAT 5058 Inelastic:50-Sn-123m1 50-Sn-123
 Radionuclide Production Cross Section 180.000 %
 Incident Energy (eV)

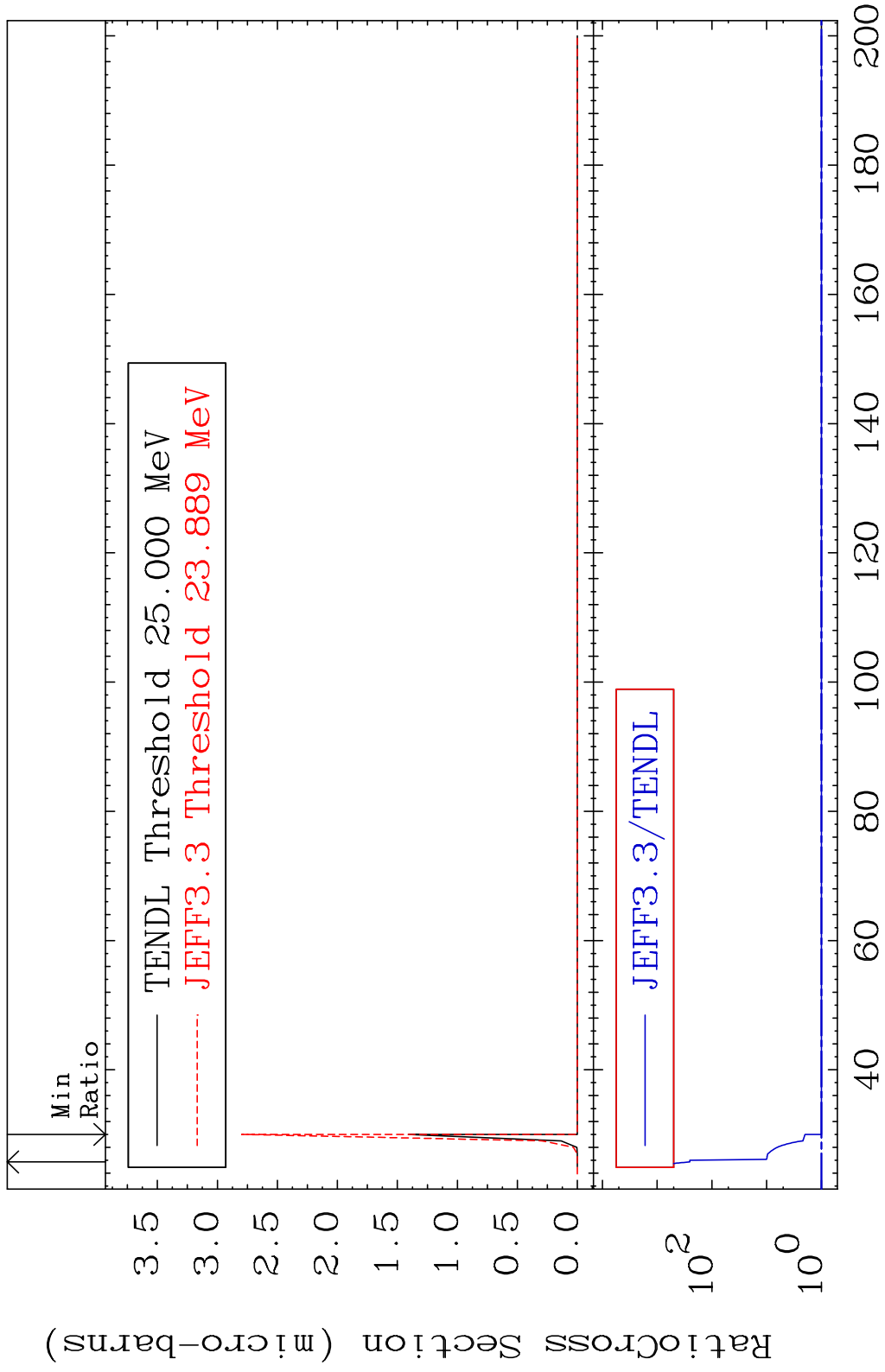


MAT 5058 (n,2n) d:49-In-120g 50-Sn-123
 Radionuclide Production Cross Section 18000 dth 9999. %

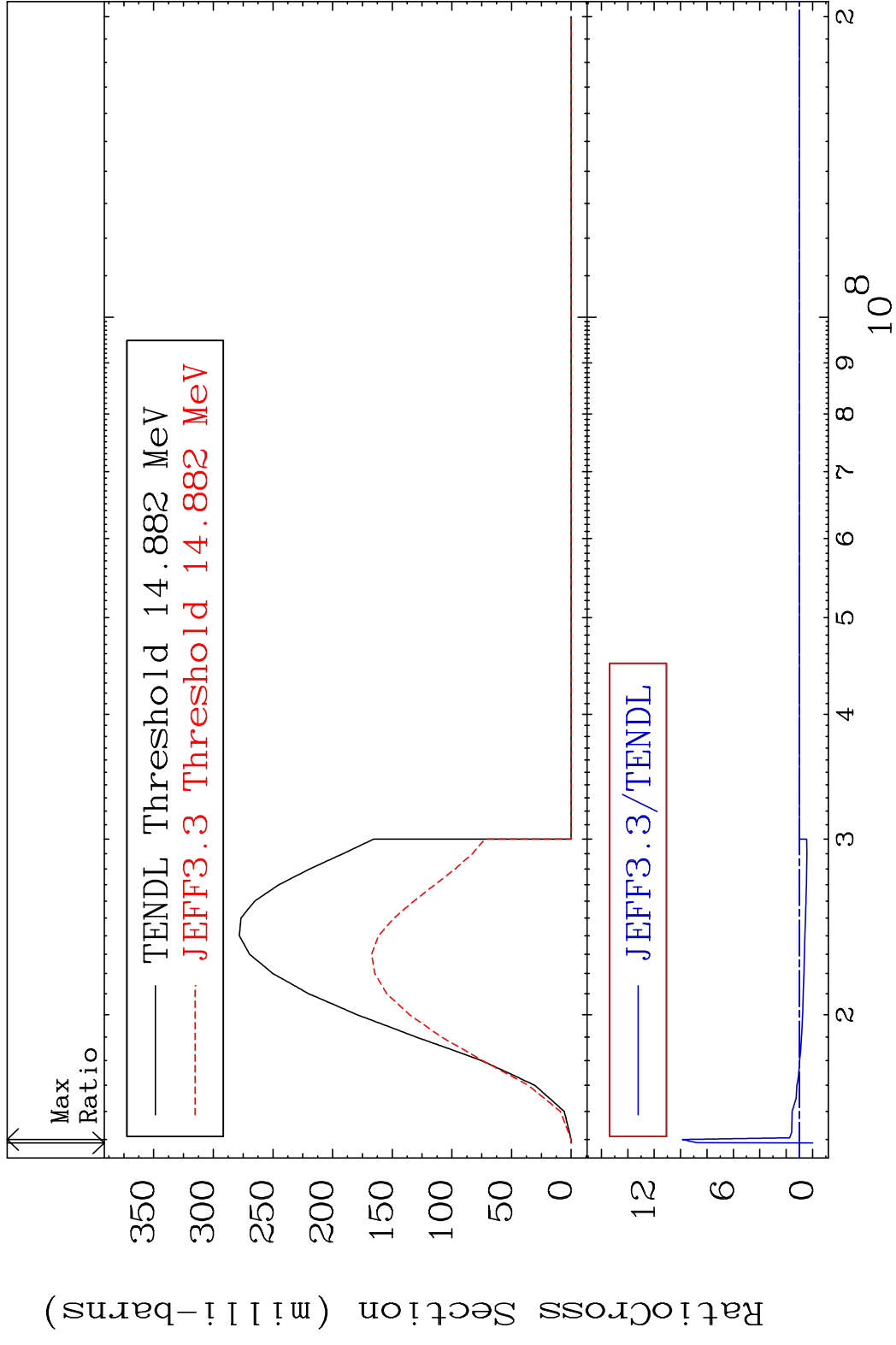


MAT 5058 (n,2n) d:49-In-120m1 50-Sn-123
 Radionuclide Production Cross Section to 9999. %

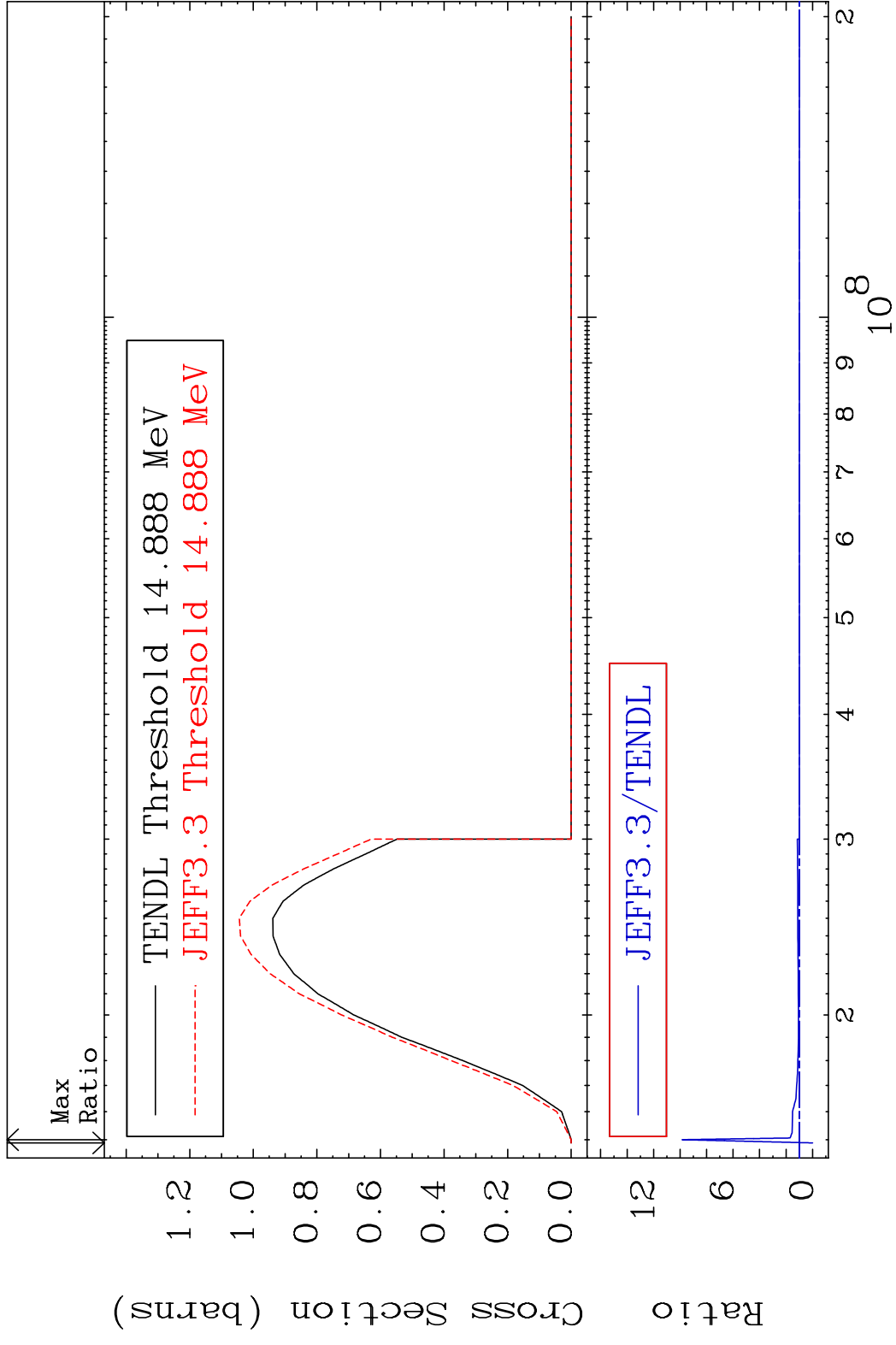




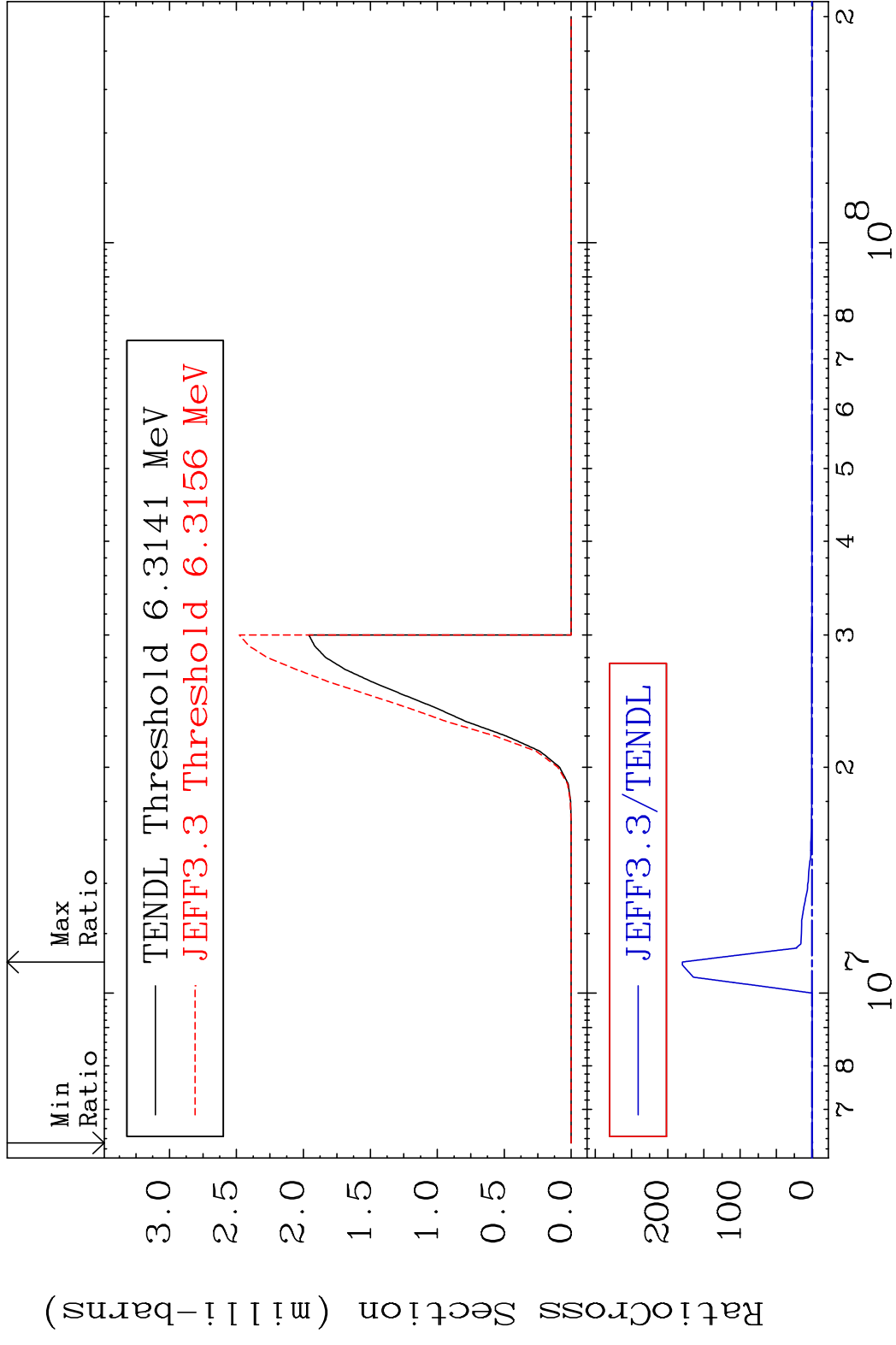
MAT 5058 (n,3n):50-Sn-121g 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 886.7 %



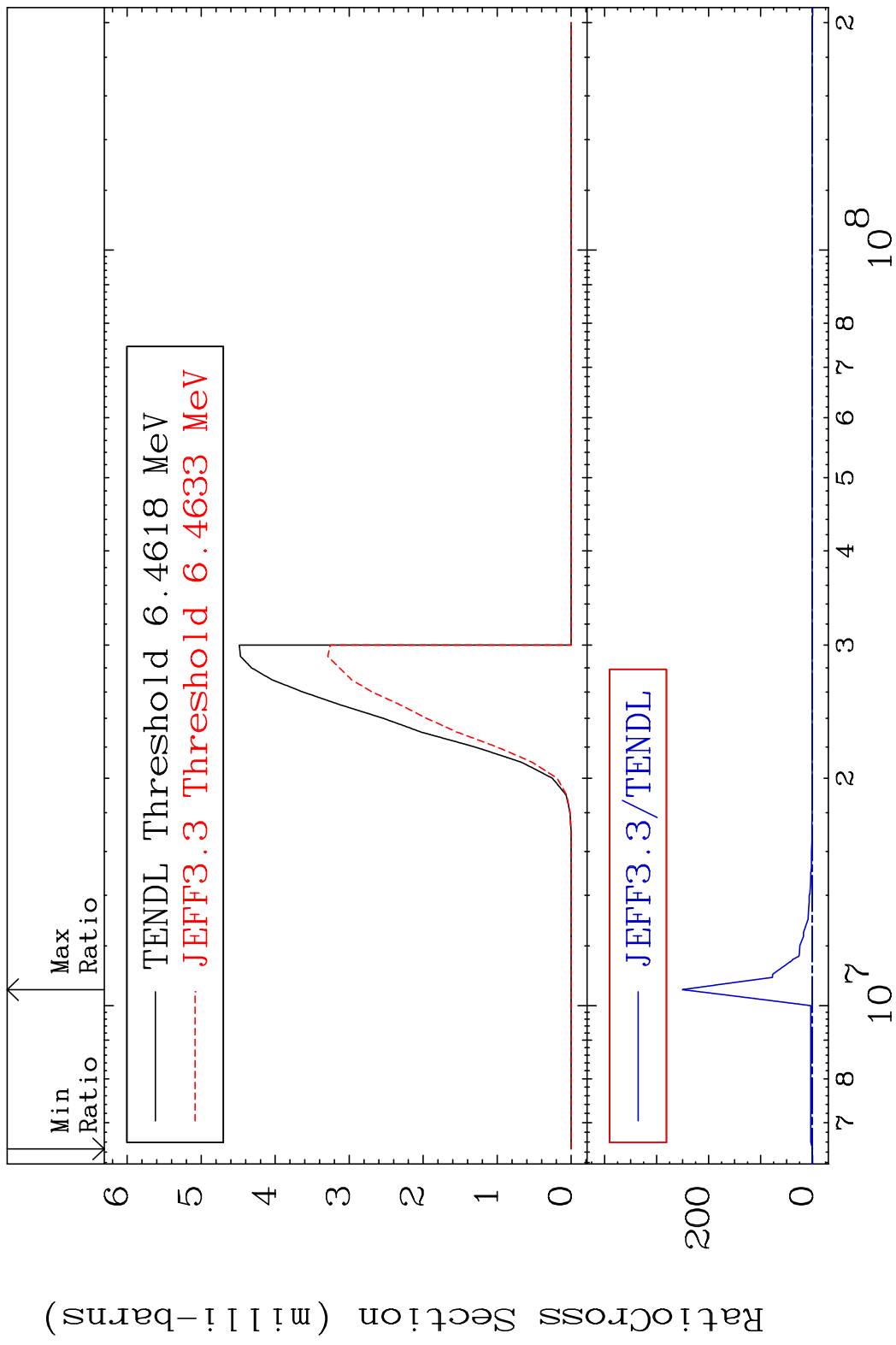
MAT 5058 (n, 3n):50-Sn-121m1 50-Sn-123
 Radionuclide Production Cross Section 882.9 %



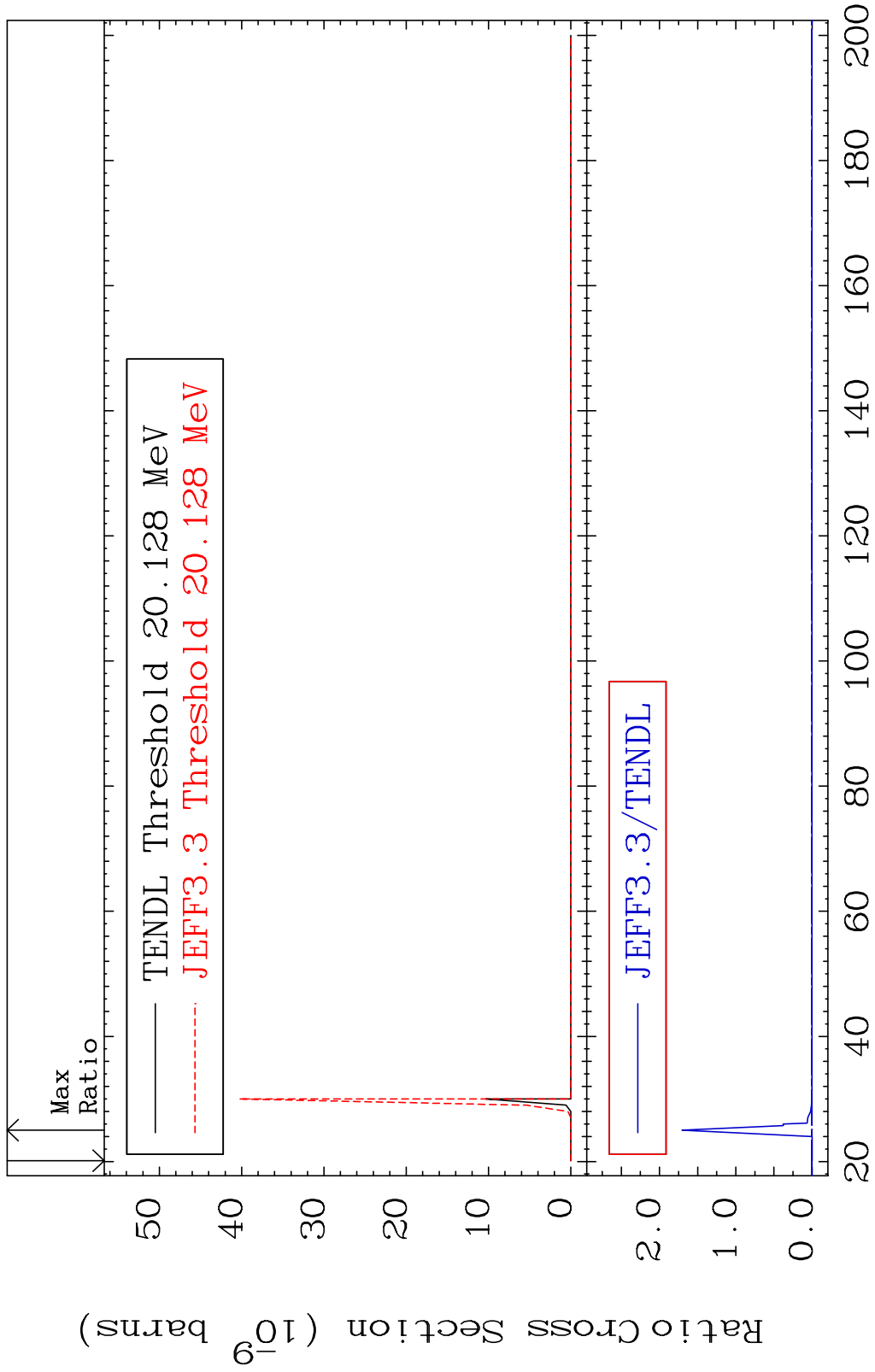
MAT 5058 (n, n') α :48-Cd-119g 50-Sn-123
 Radionuclide Production Cross Section to 9999. %



MAT 5058 (n, n') α :48-Cd-119m2 50-Sn-123
 Radionuclide Production Cross Section to 9999. %

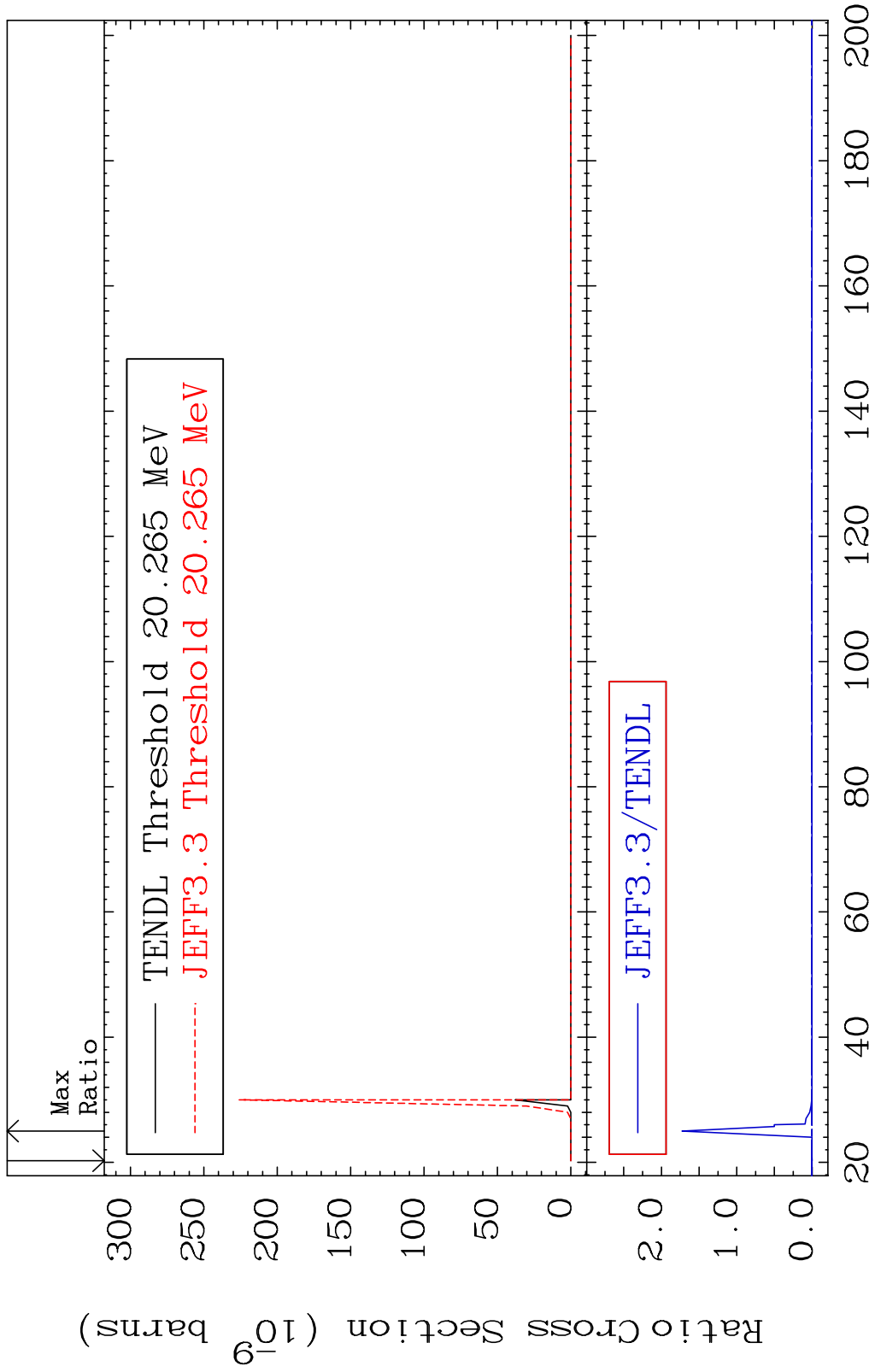


MAT 5058 (n,3n) α :48-Cd-117g 50-Sn-123
 Radionuclide Production Cross Section Ratio 9999. %



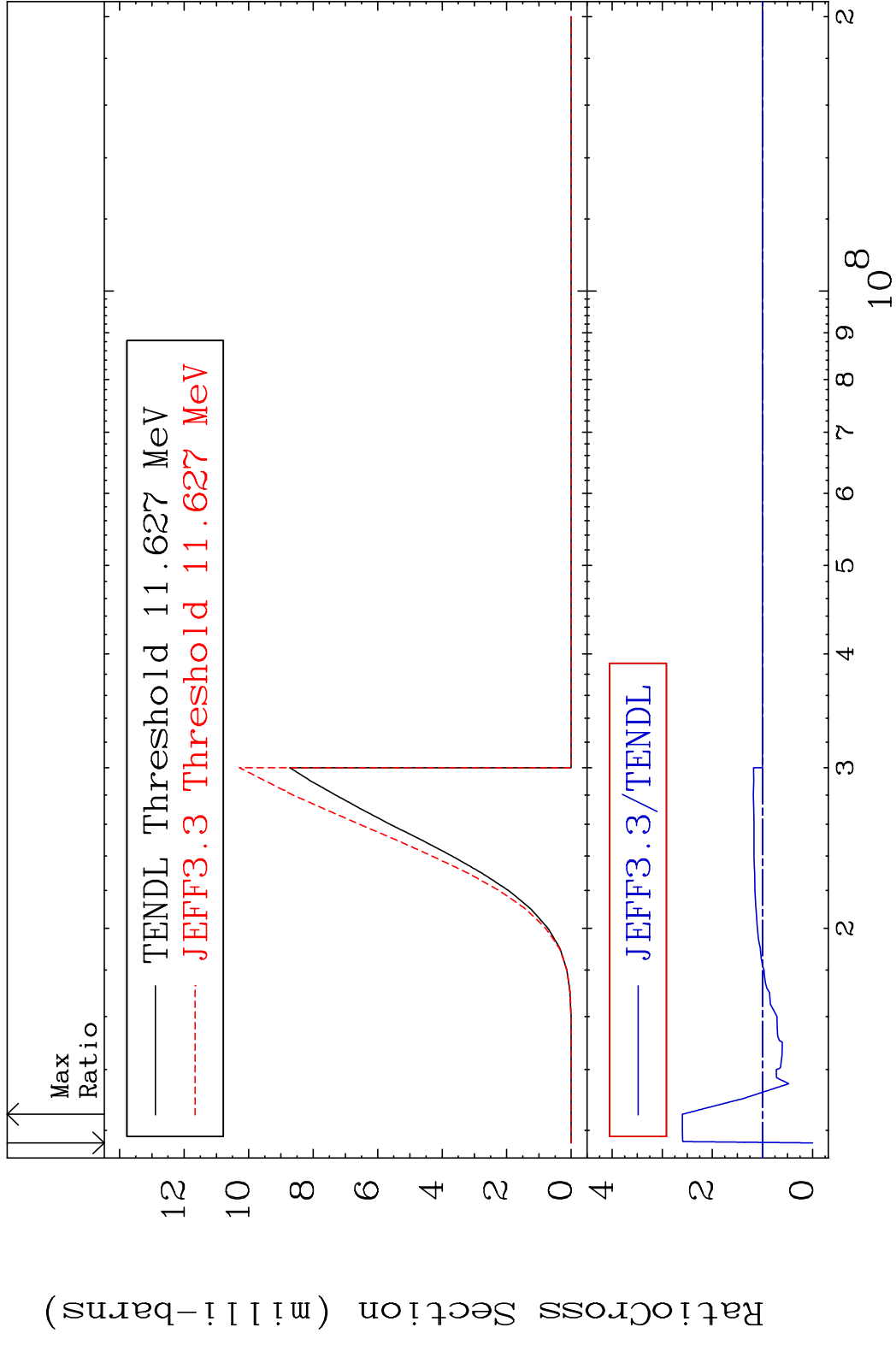
79 Incident Energy (MeV) 50-Sn-123

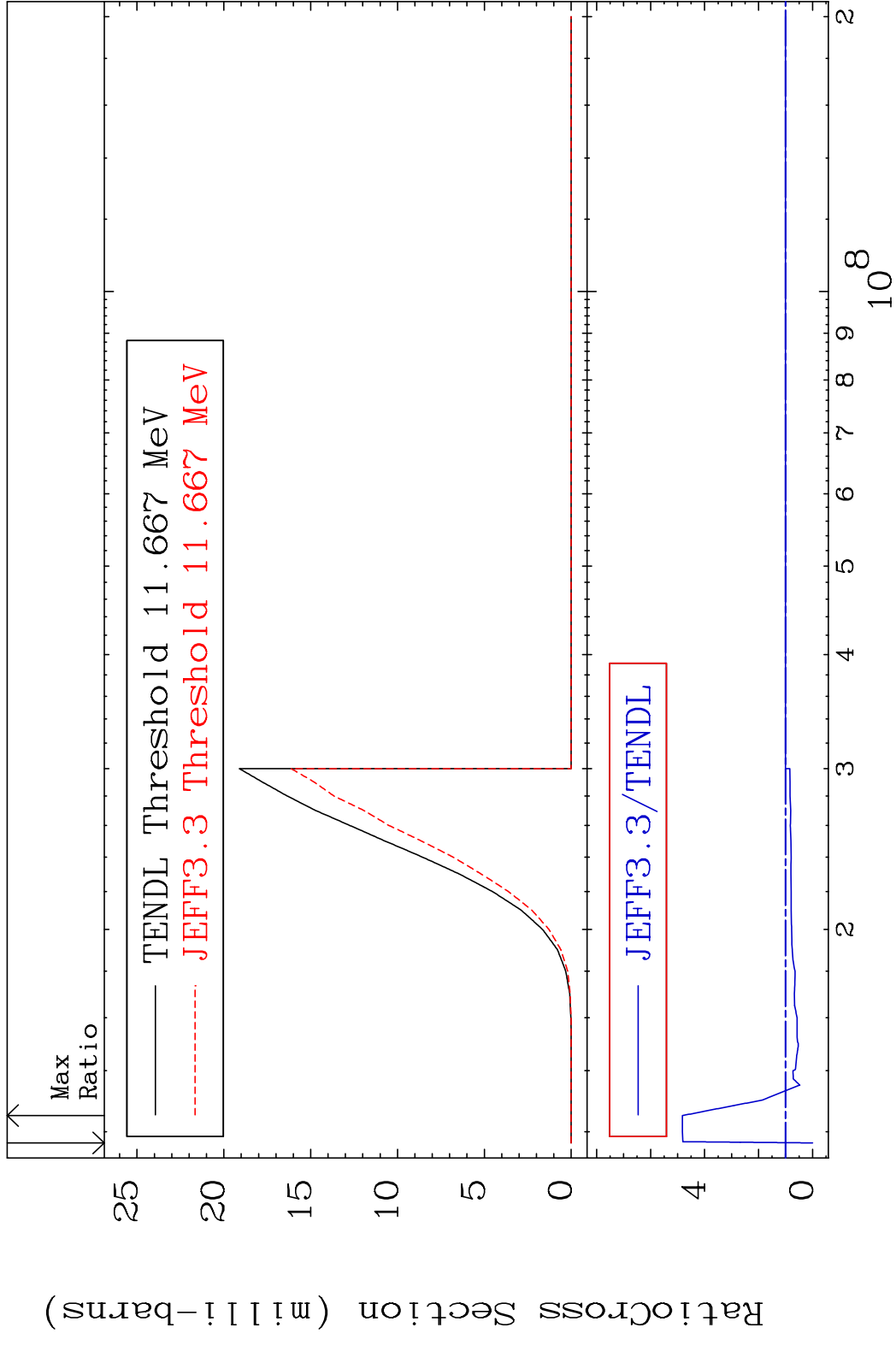
MAT 5058 (n,3n) α :48-Cd-117m2 50-Sn-123
 Radionuclide Production Cross Section Ratio 9999. %

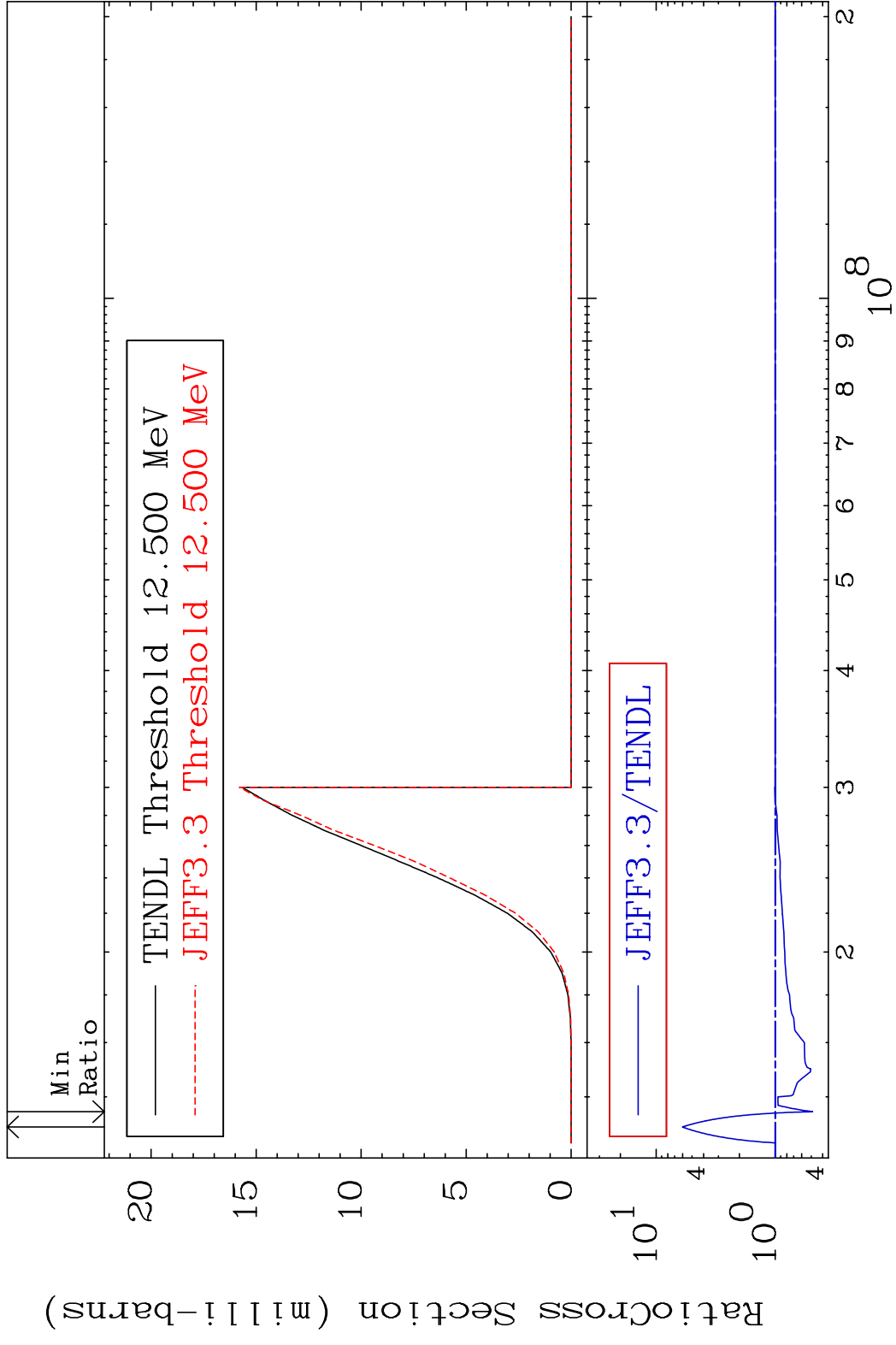


80 Incident Energy (MeV) 50-Sn-123

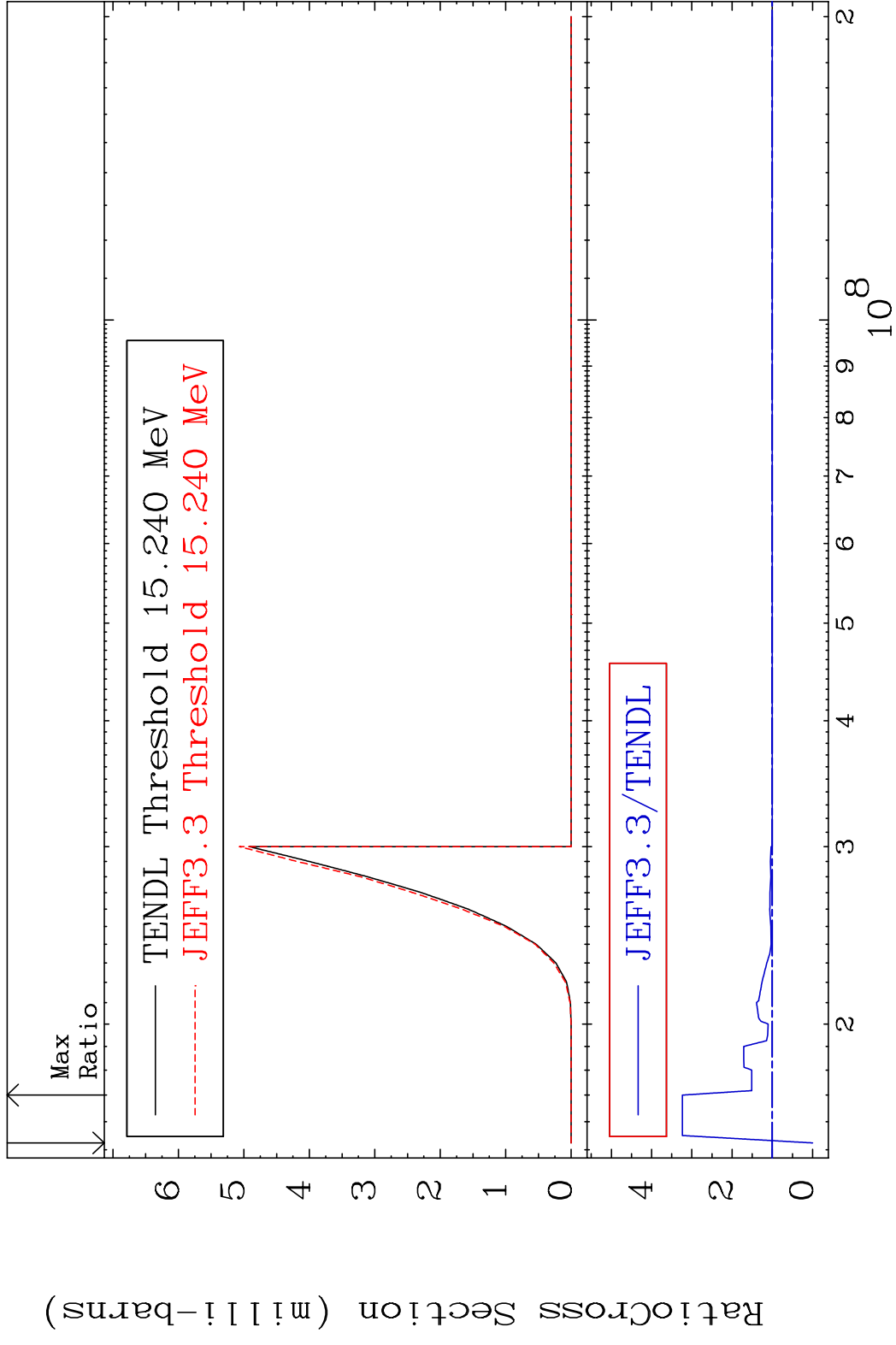
MAT 5058 (n, n') p:49-In-122g 50-Sn-123
 Radionuclide Production Cross Section 159.8 %

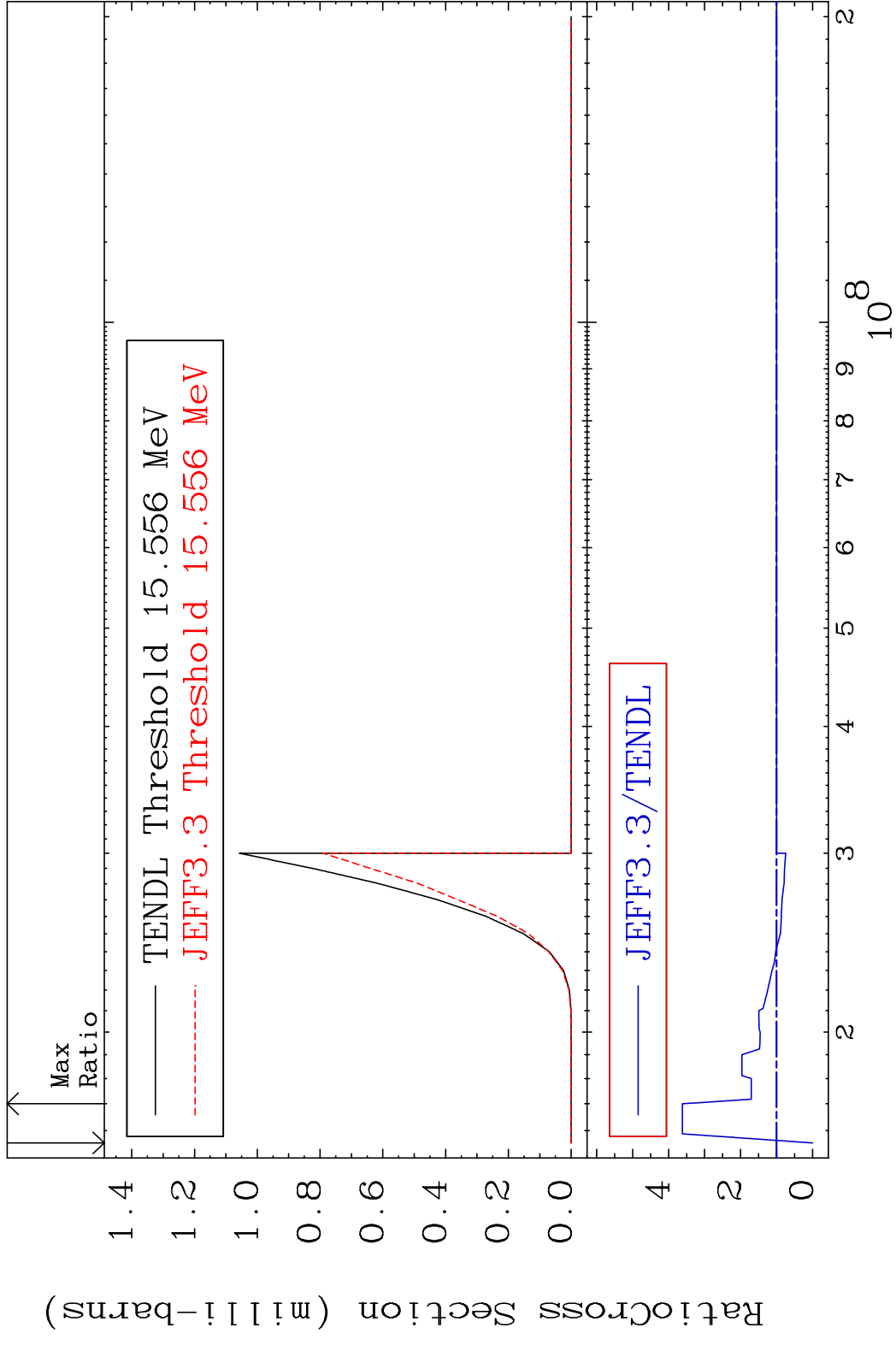




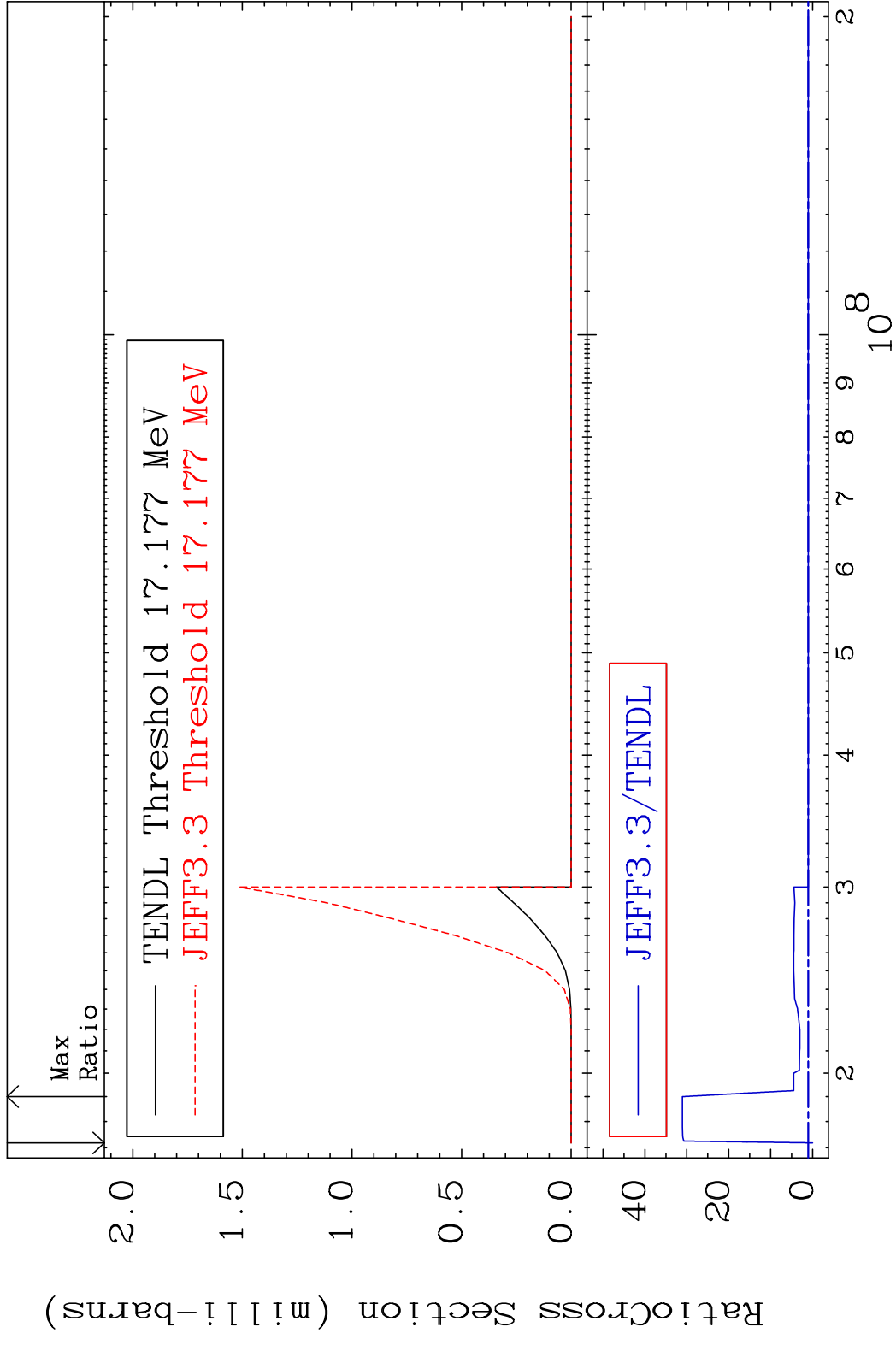


MAT 5058 (n, n') d:49-In-121g 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 223.6 %

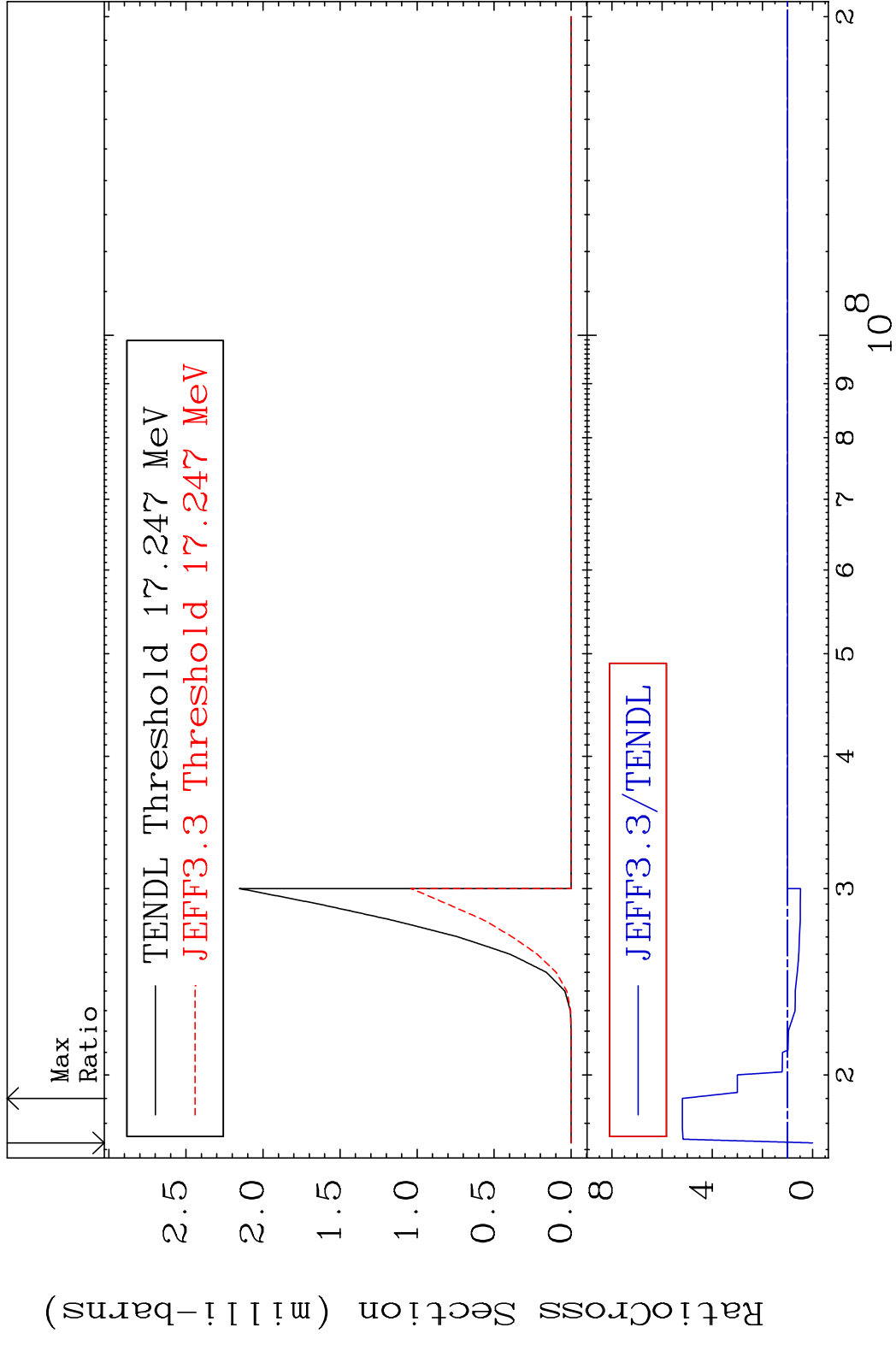




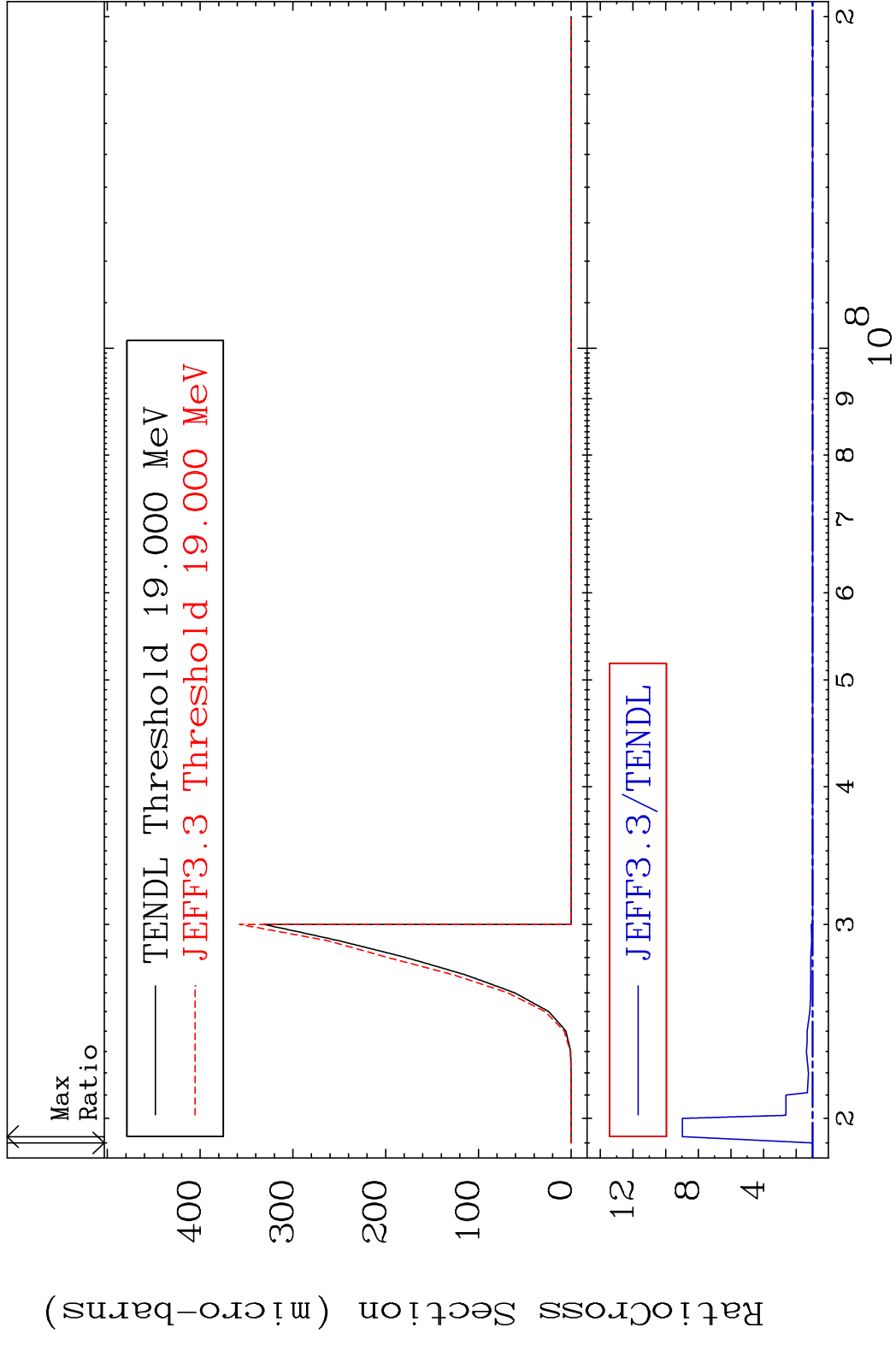
MAT 5058 (n, n') t:49-In-120g 50-Sn-123
 Radionuclide Production Cross Section 1800 d to 3006. %



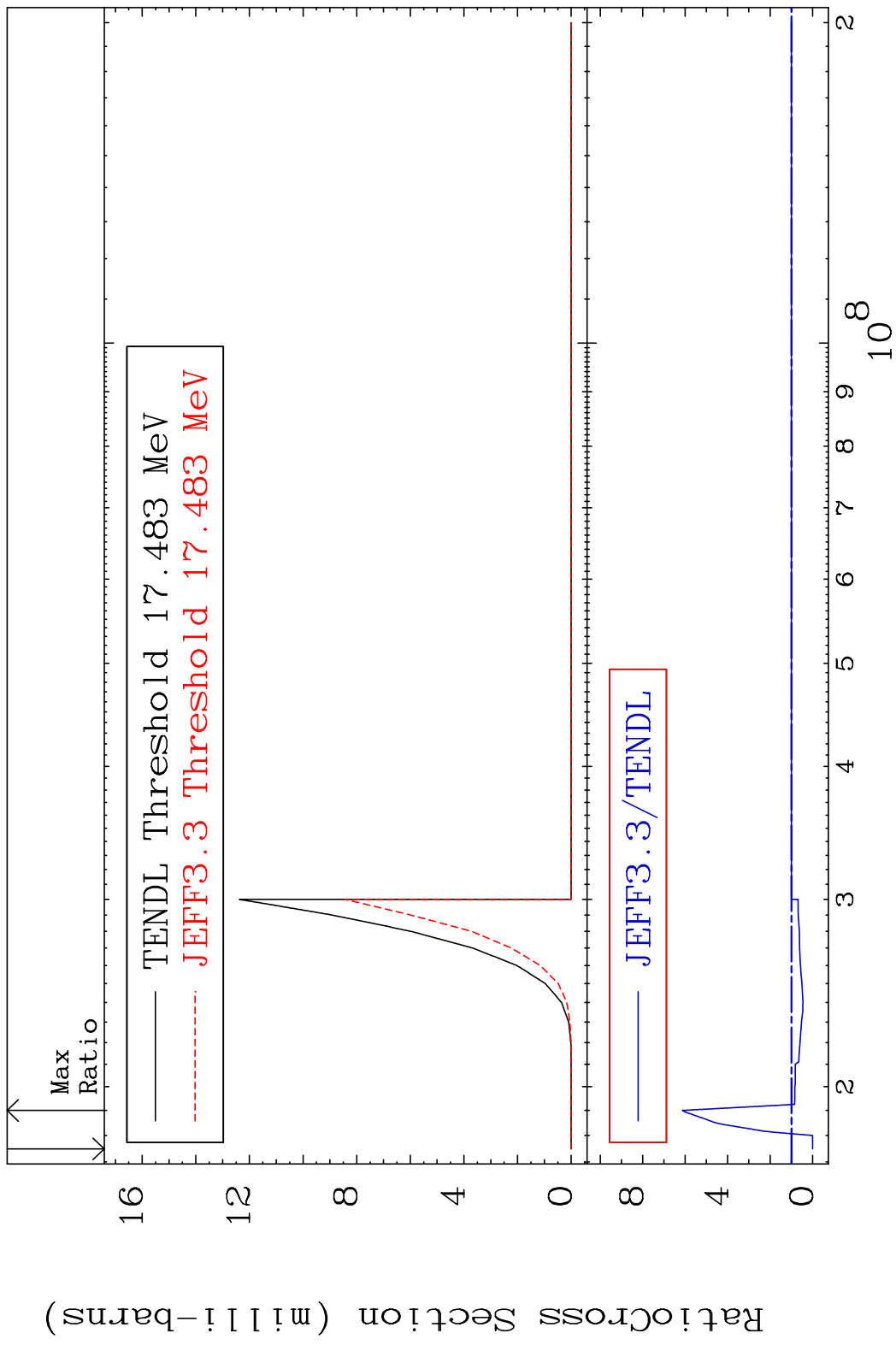
MAT 5058 (n, n') t:49-In-120m1 50-Sn-123
 Radionuclide Production Cross Section 180.0 dth 419.3 %

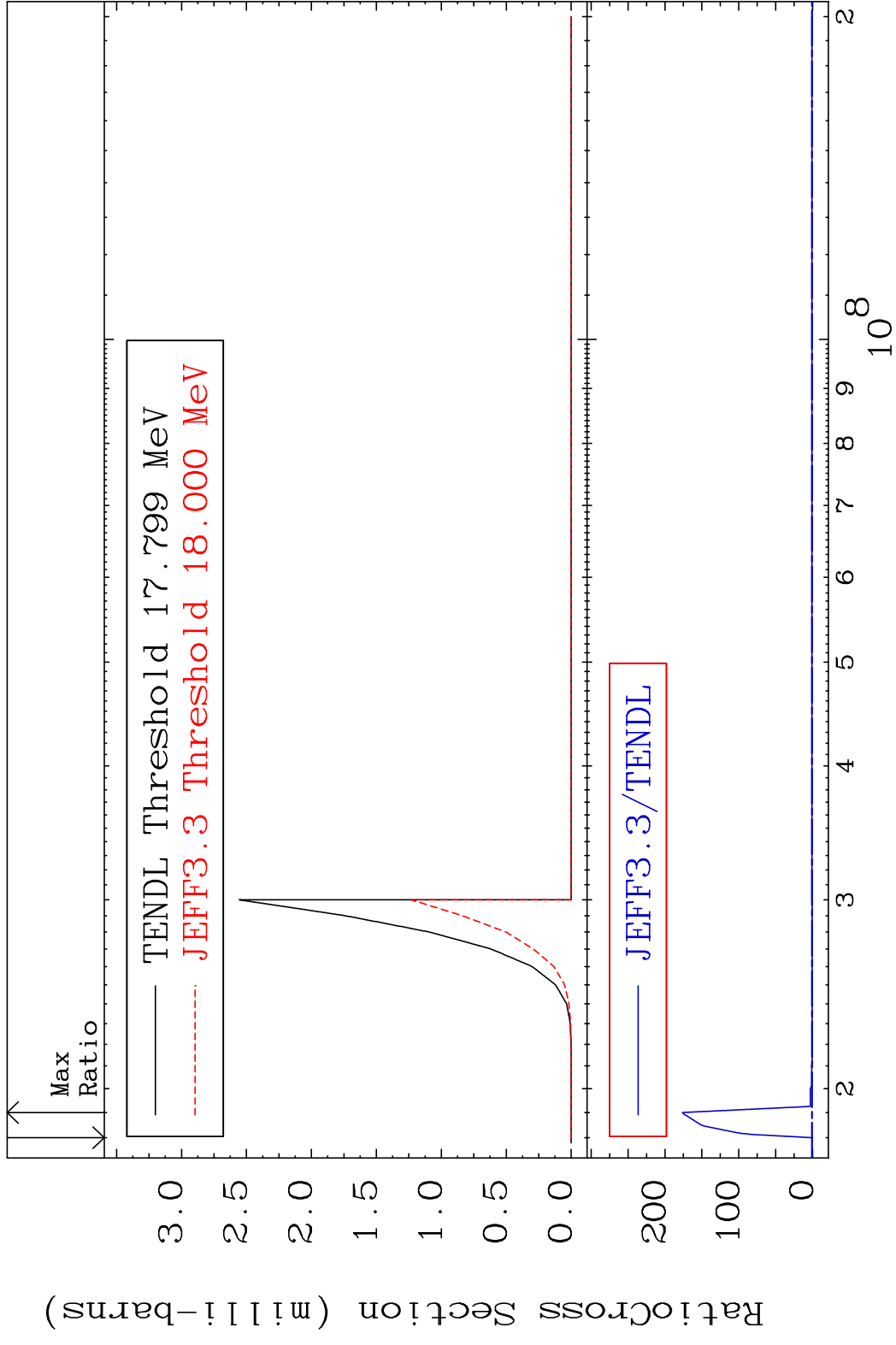


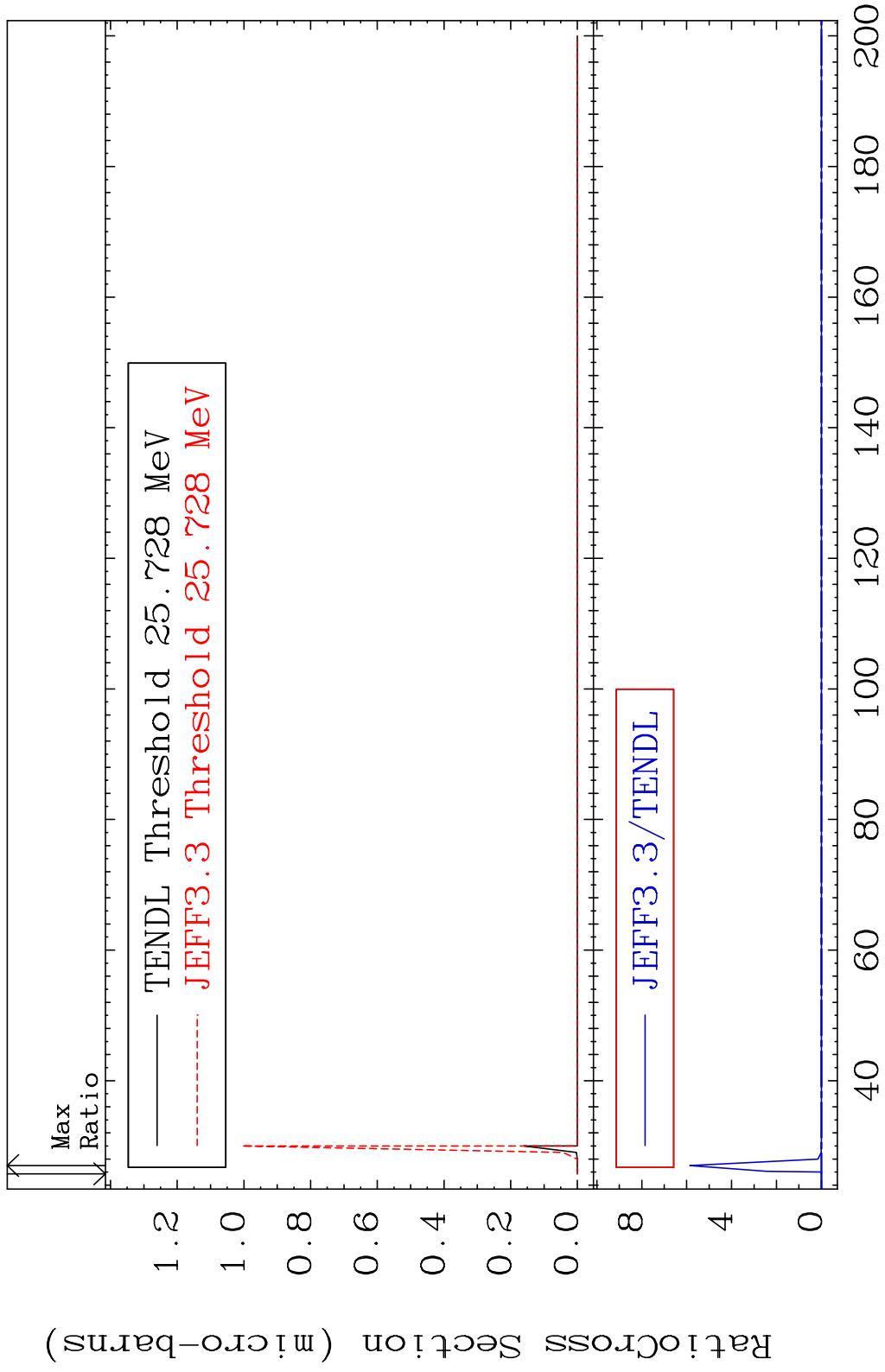
MAT 5058 (n, n') t:49-In-120m2 50-Sn-123
 Radionuclide Production Cross Section 797.6 %

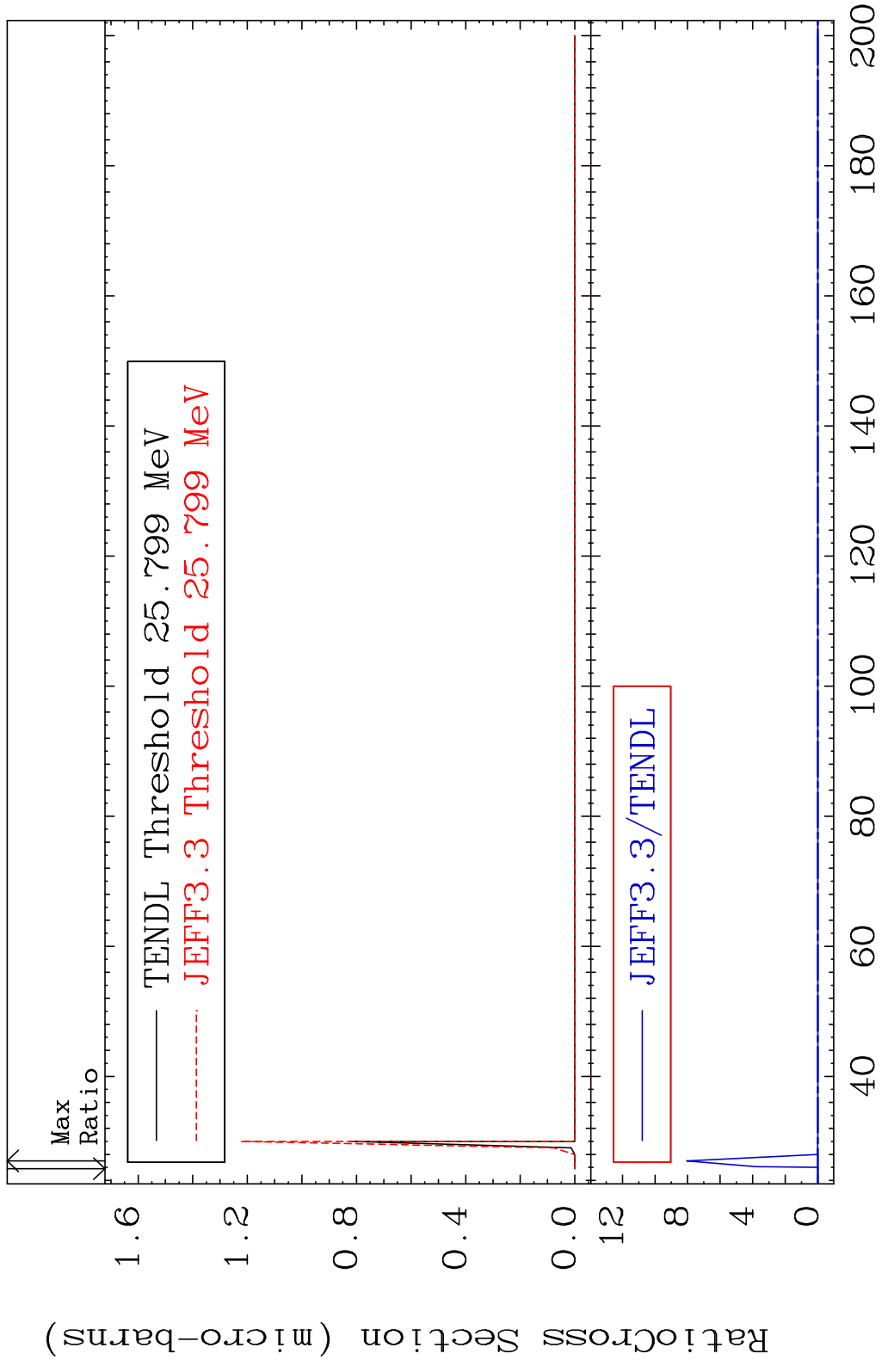


MAT 5058 (n,2n) p:49-In-121g 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 513.2 %

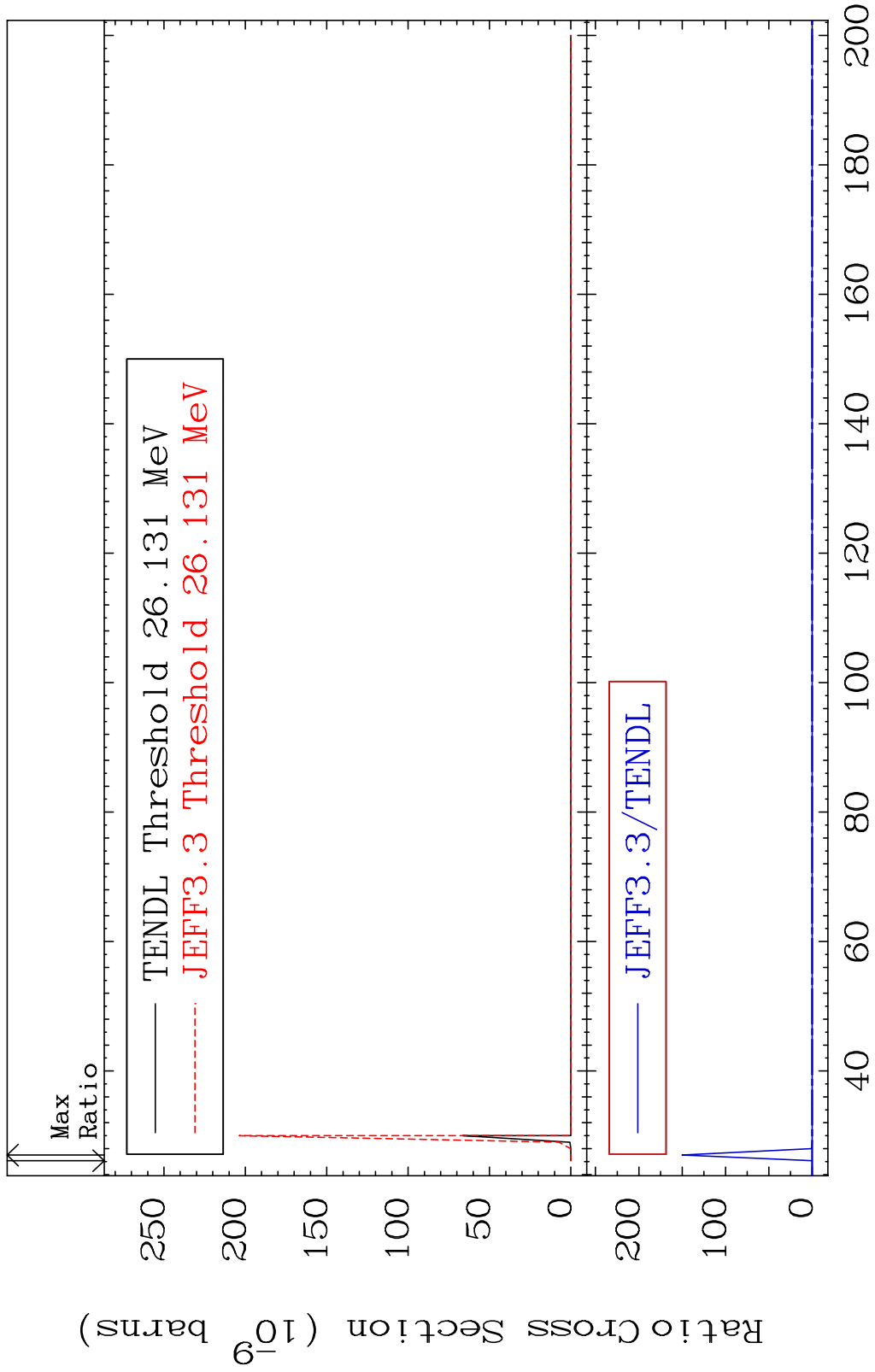




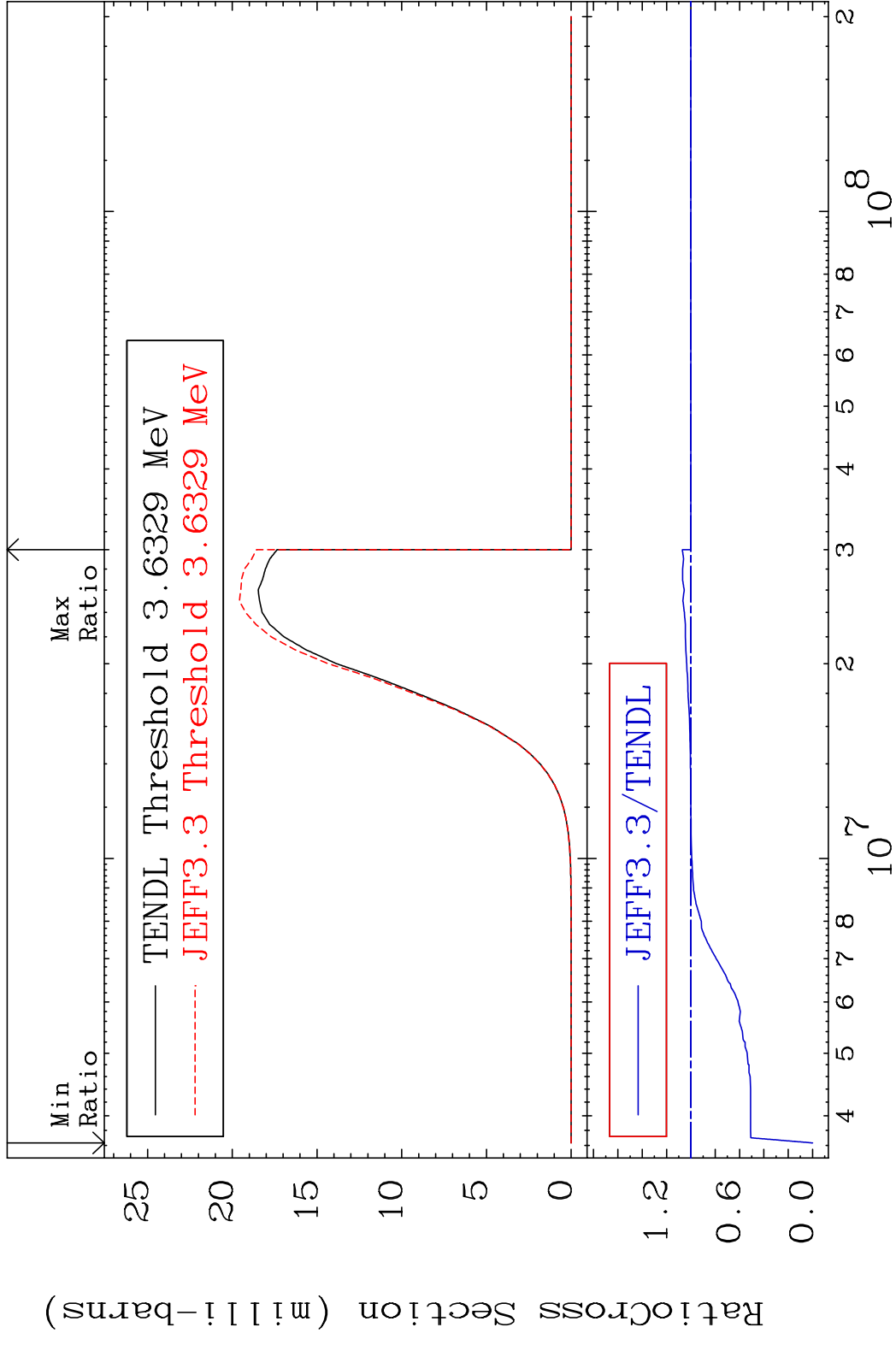




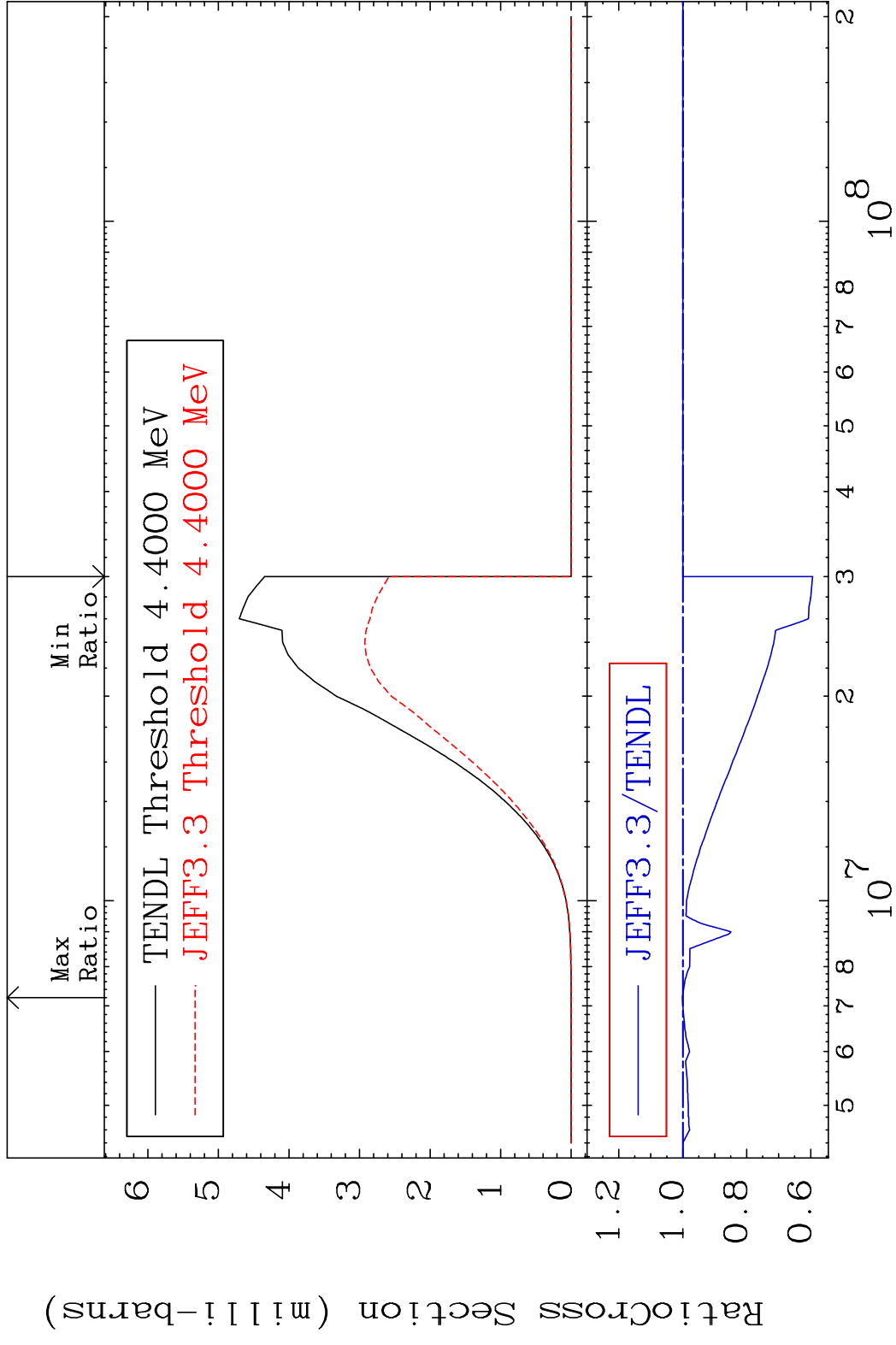
MAT 5058 (n,3n) p:49-In-120m2 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 9999. %



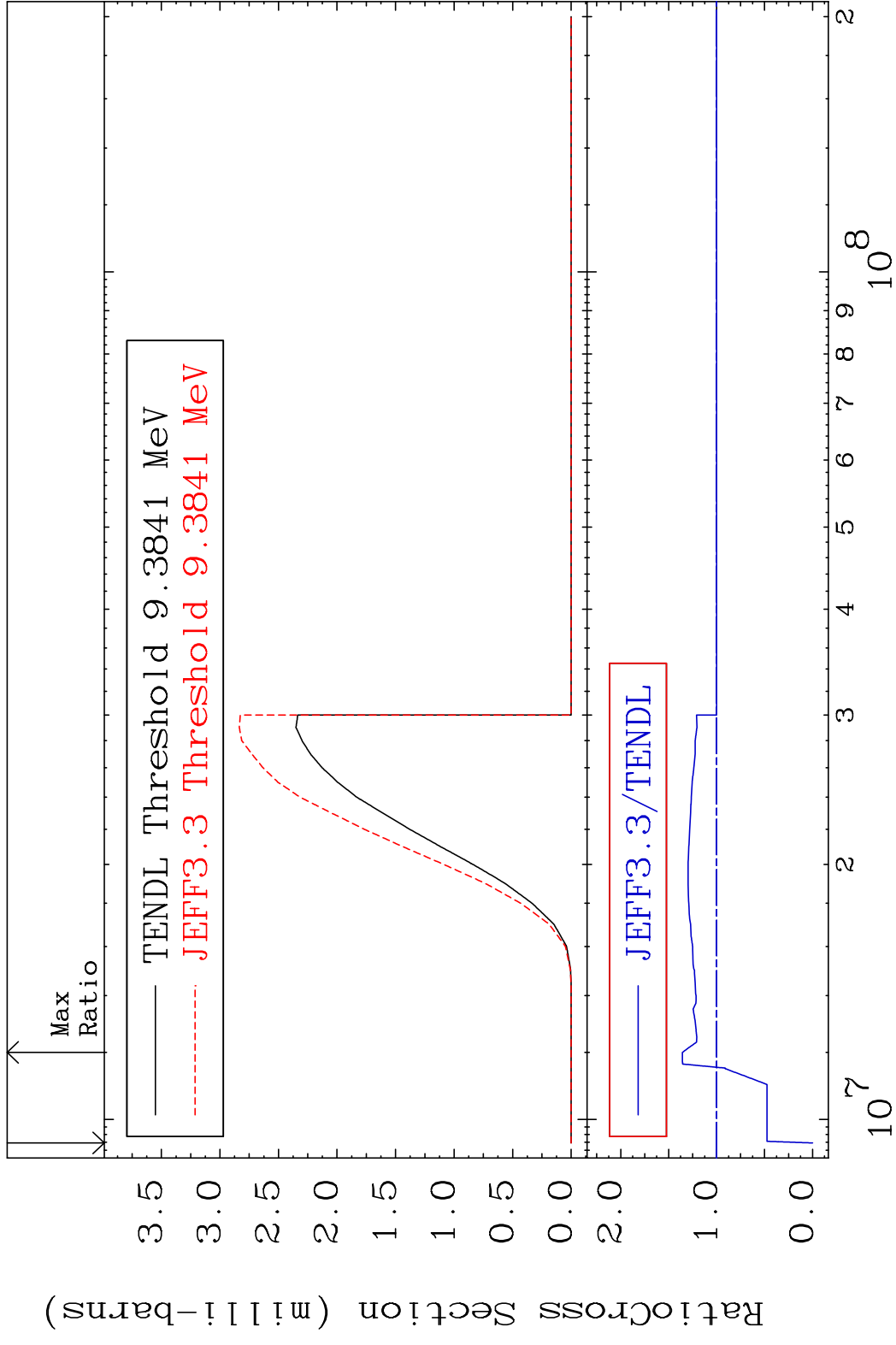
MAT 5058 (n,p):49-In-123g 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 7.017 %



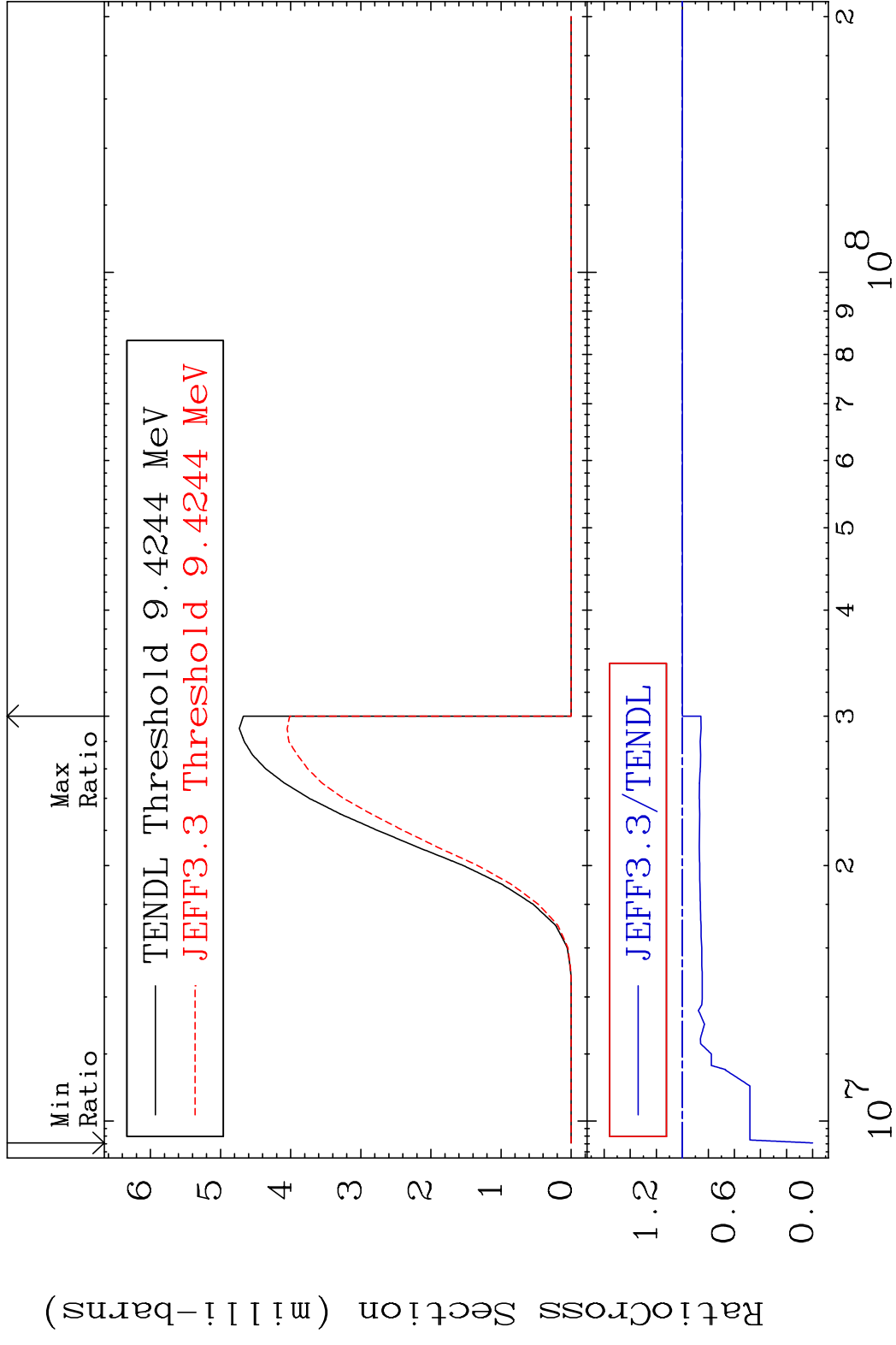
MAT 5058 (n, p): 49-In-123m1 50-Sn-123
 Radionuclide Production Cross Section 0.132 %



MAT 5058 (n,d):49-In-122g 50-Sn-123
 Radionuclide Production Cross Section 35.74 %

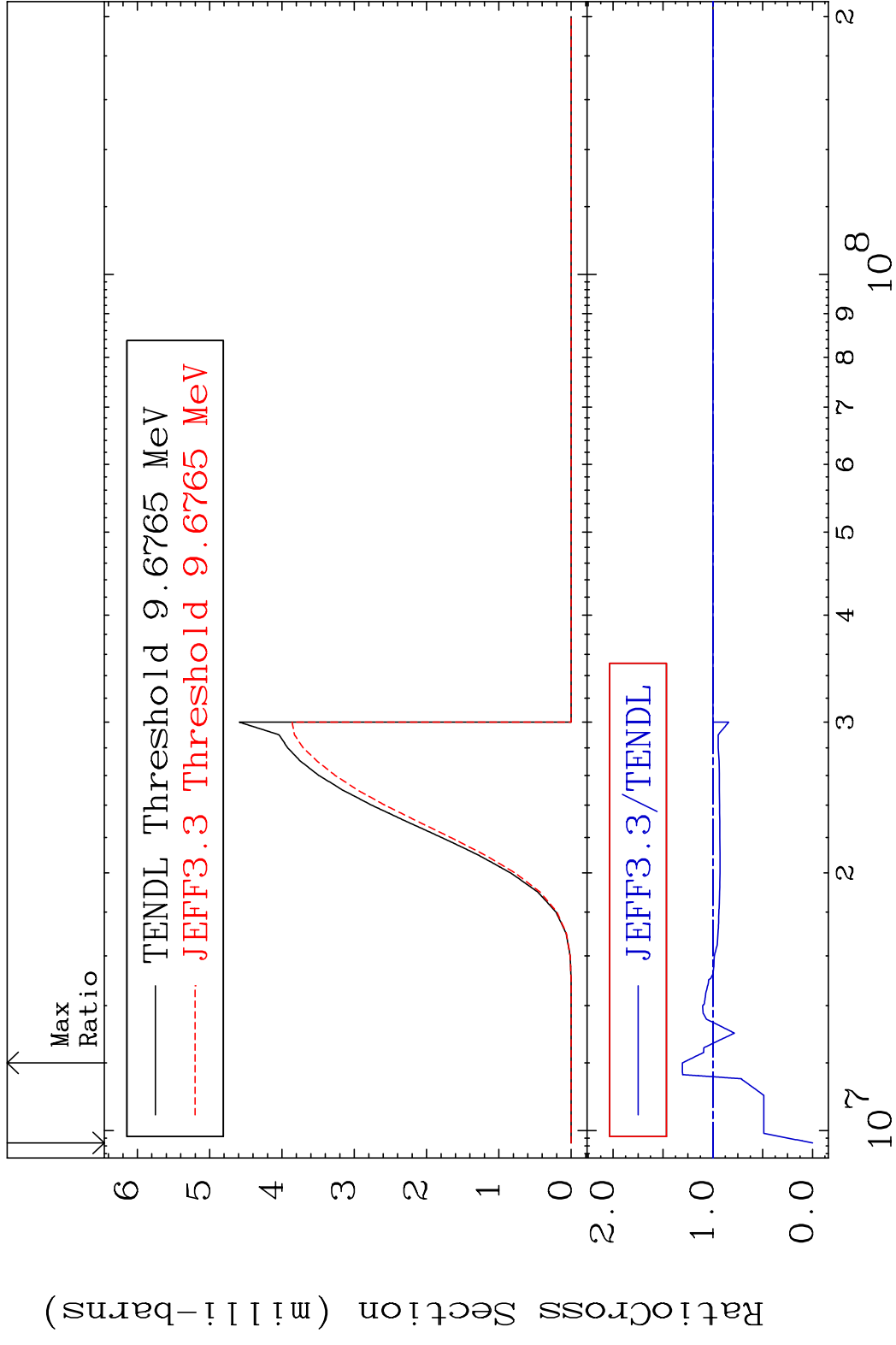


MAT 5058 (n, d): 49-In-122m1 50-Sn-123
 Radionuclide Production Cross Section 100.000 %



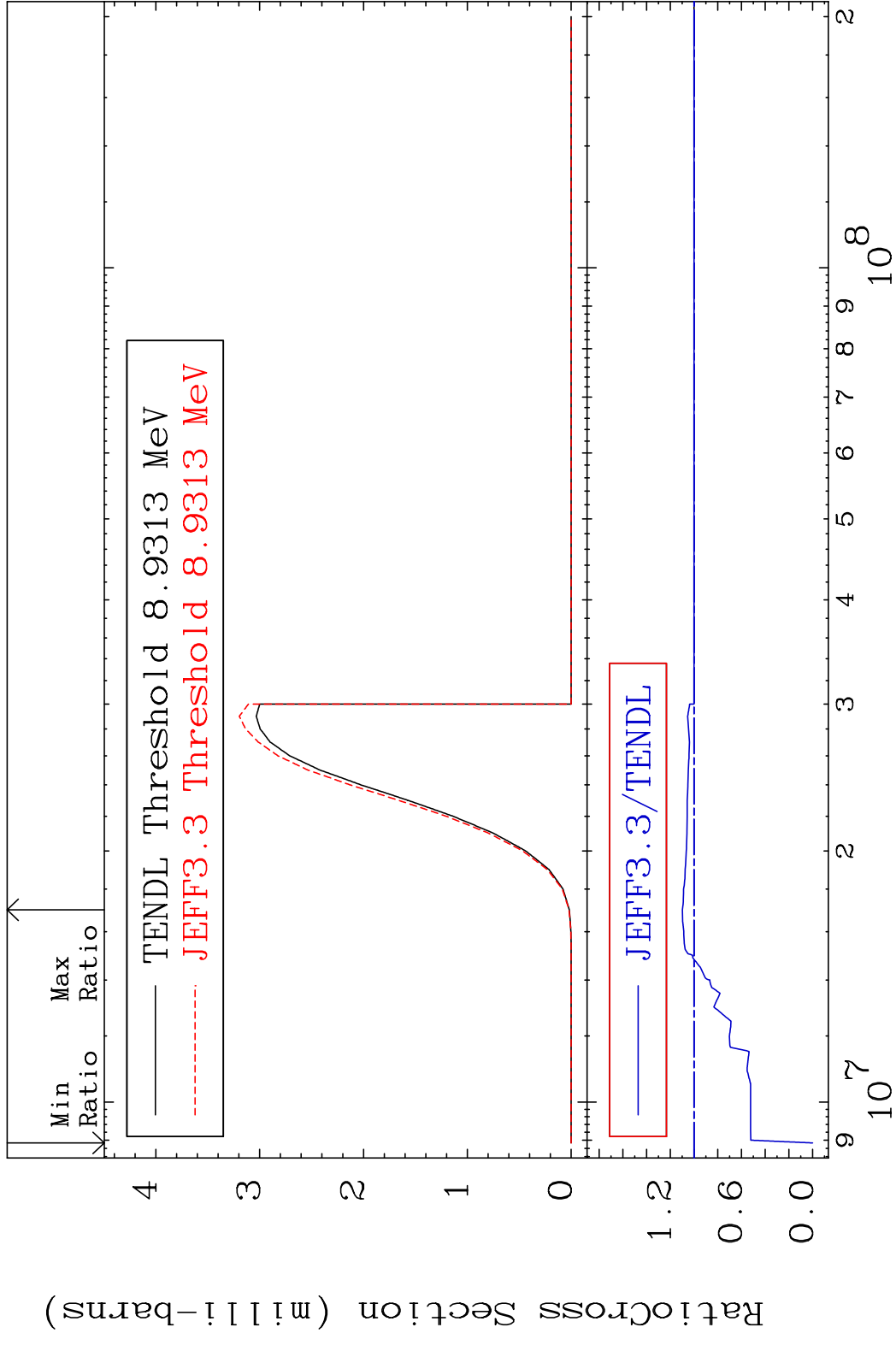
97 50-Sn-123

MAT 5058 (n, d):49-In-122m5 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 30.61 %

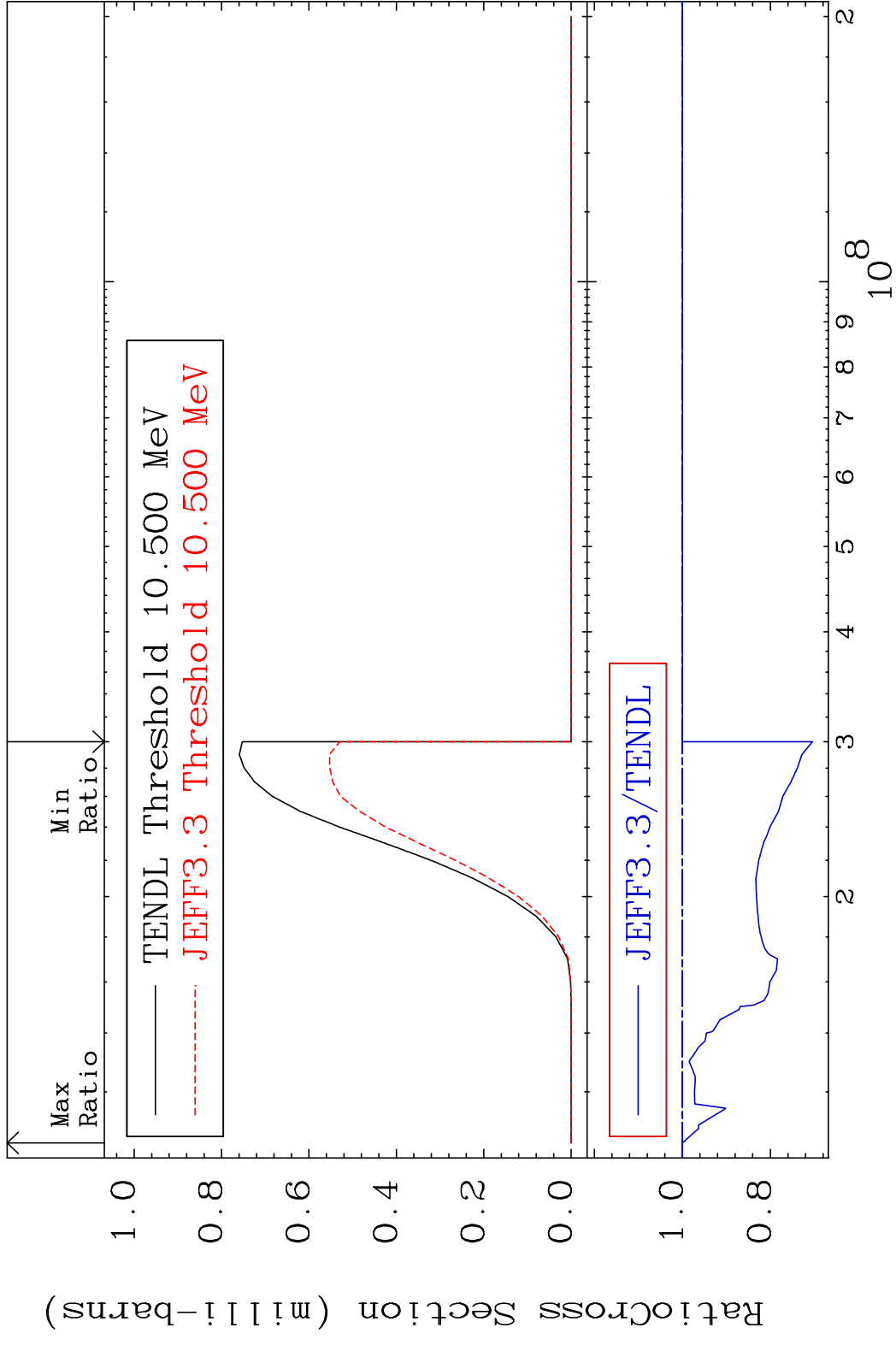


98 Incident Energy (eV) 50-Sn-123

MAT 5058 (n, t): 49-In-121g 50-Sn-123
 Radionuclide Production Cross Section 180.01 dth 9.842 %



MAT 5058 (n, t): 49-In-121m1 50-Sn-123
 Radionuclide Production Cross Section 0.000 %



100 Incident Energy (eV) 50-Sn-123

MAT 5058 (n, He-3): 48-Cd-121g 50-Sn-123
 Radionuclide Production Cross Section Ratio 0.000 %

