

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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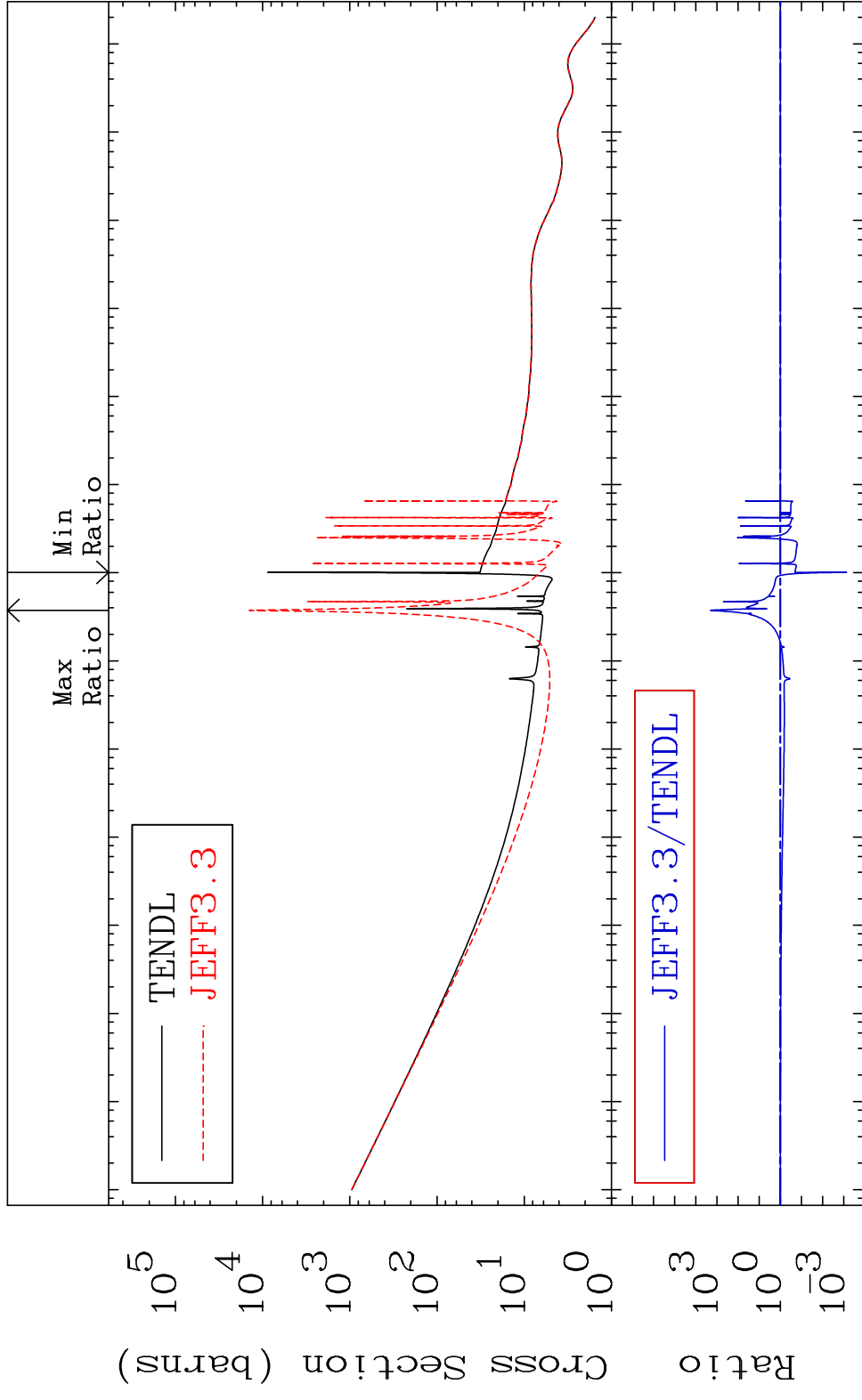
Press Mouse Button to Start

MAT 3919

39-Y -87

Total

Cross Section -99.92 To 9999. %



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

1

Incident Energy (eV)

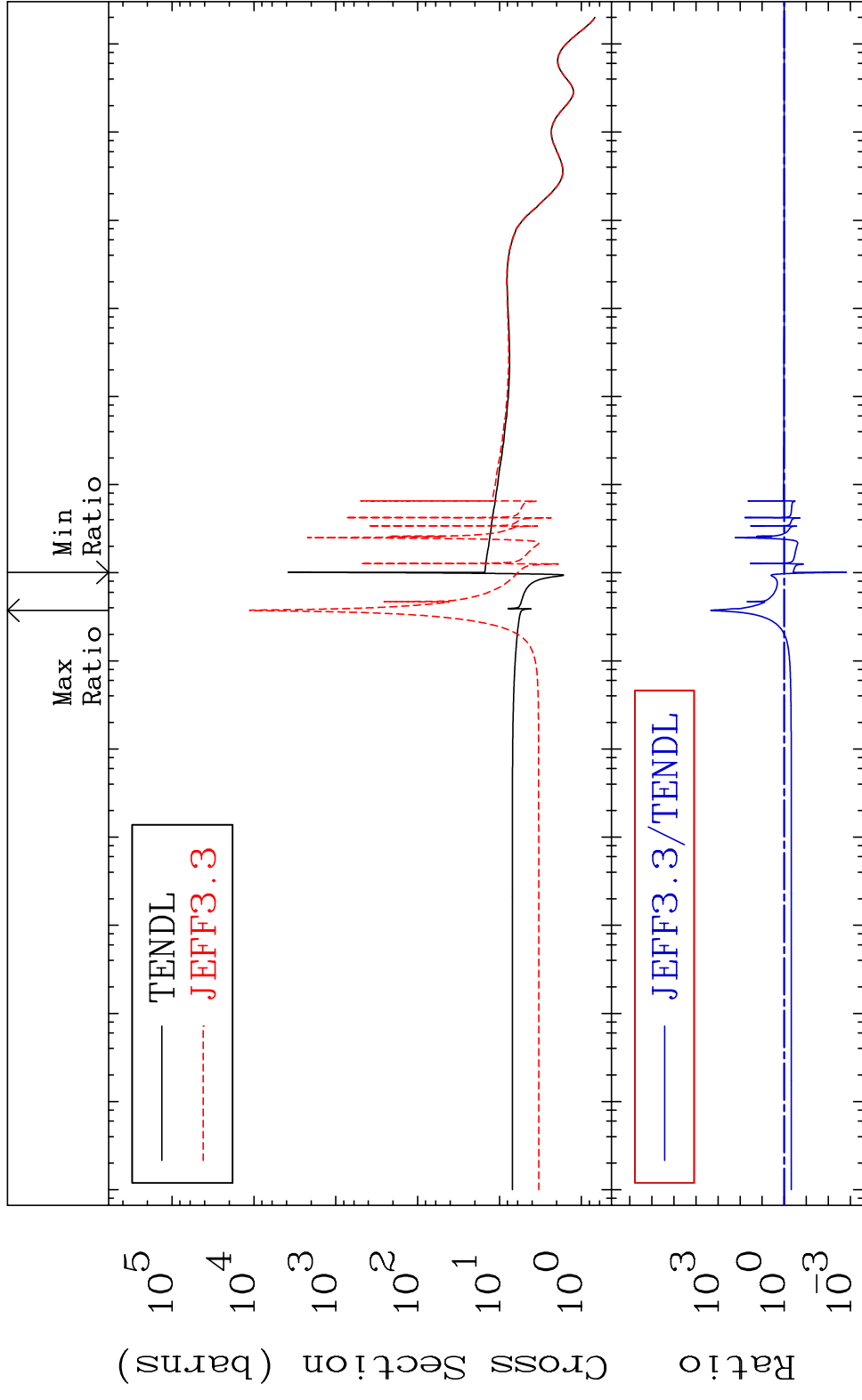
39-Y -87

MAT 3919

39-Y -87

Elastic

Cross Section -99.85 To 9999. %

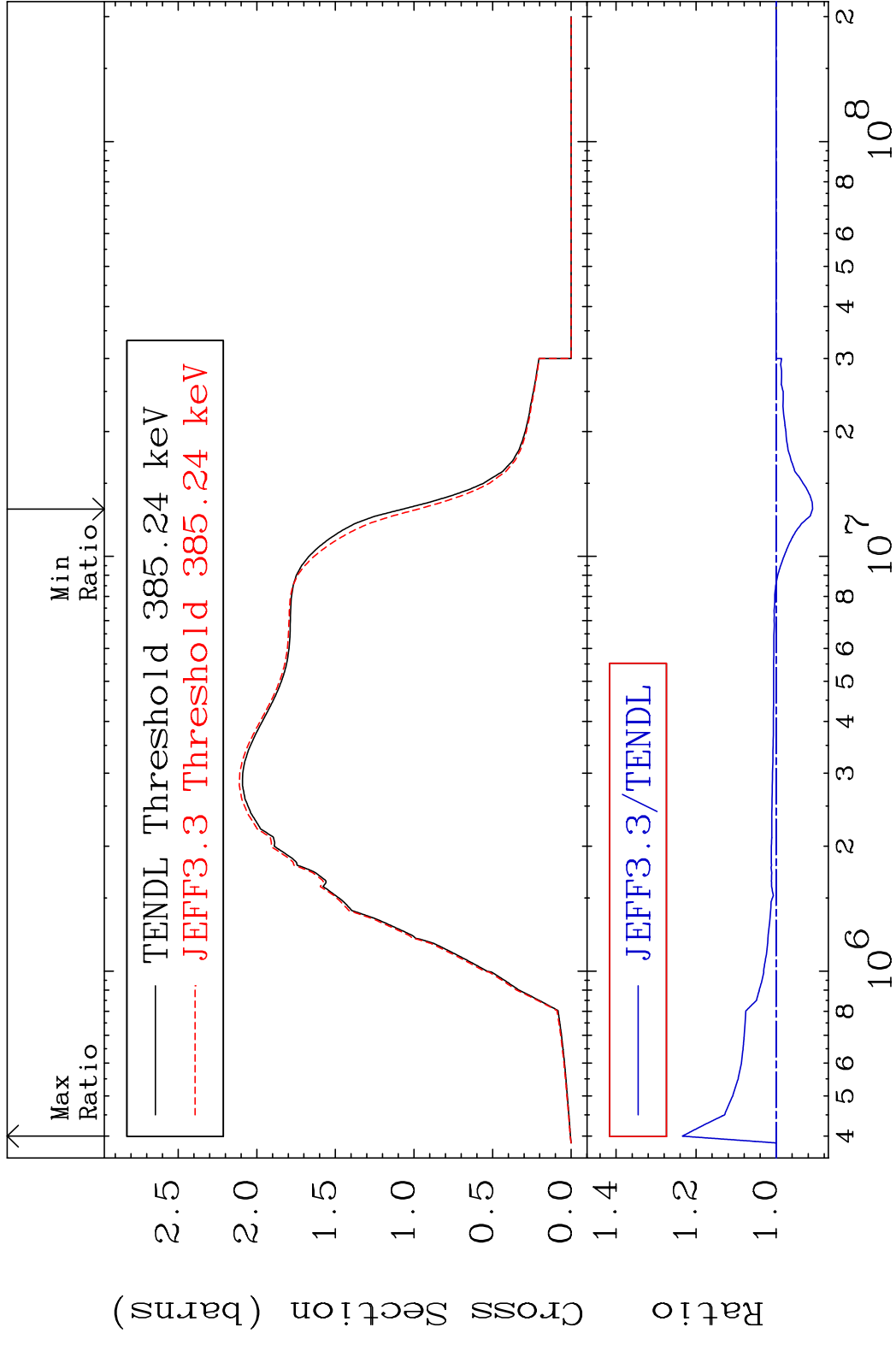


2

Incident Energy (eV)

39-Y -87

MAT 3919 Inelastic 39-Y -87
 Cross Section -9.092 To 23.44 %



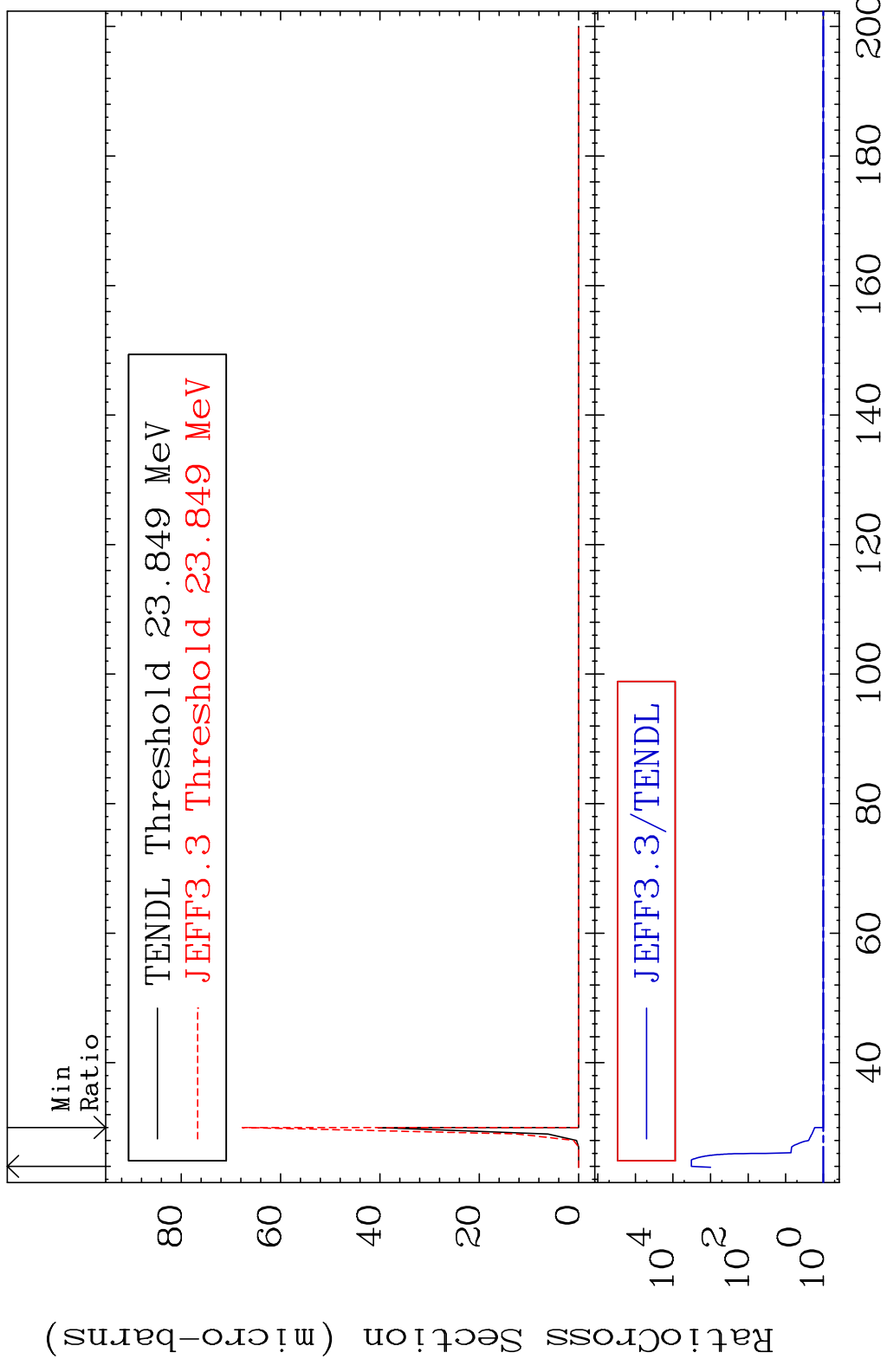
3 Incident Energy (eV) 39-Y -87

MAT 3919

(n,2n) d

39-Y -87

Cross Section 0.000 To 9999. %

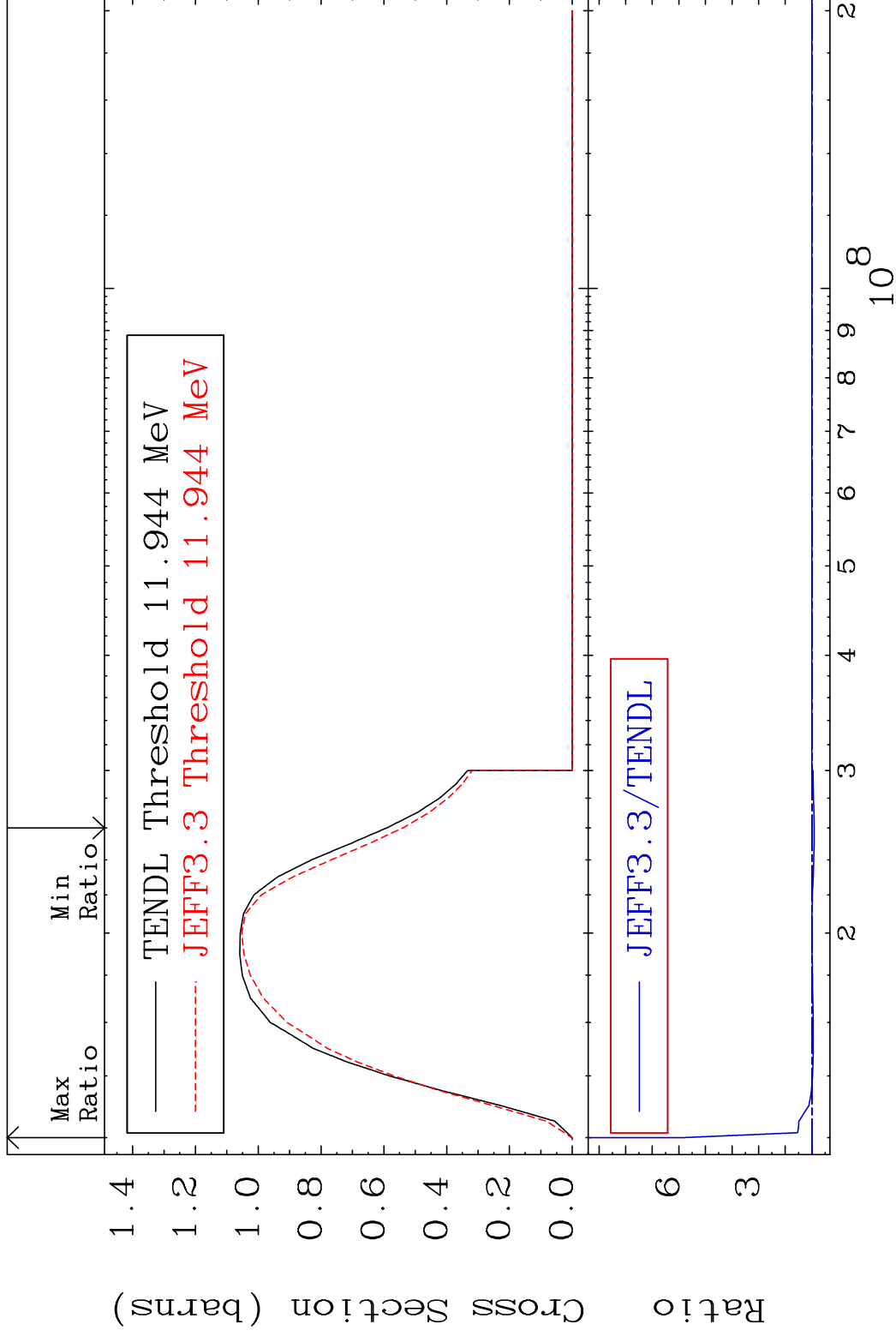


MAT 3919

(n,2n)

39-Y -87

Cross Section -8.664 To 481.9 %

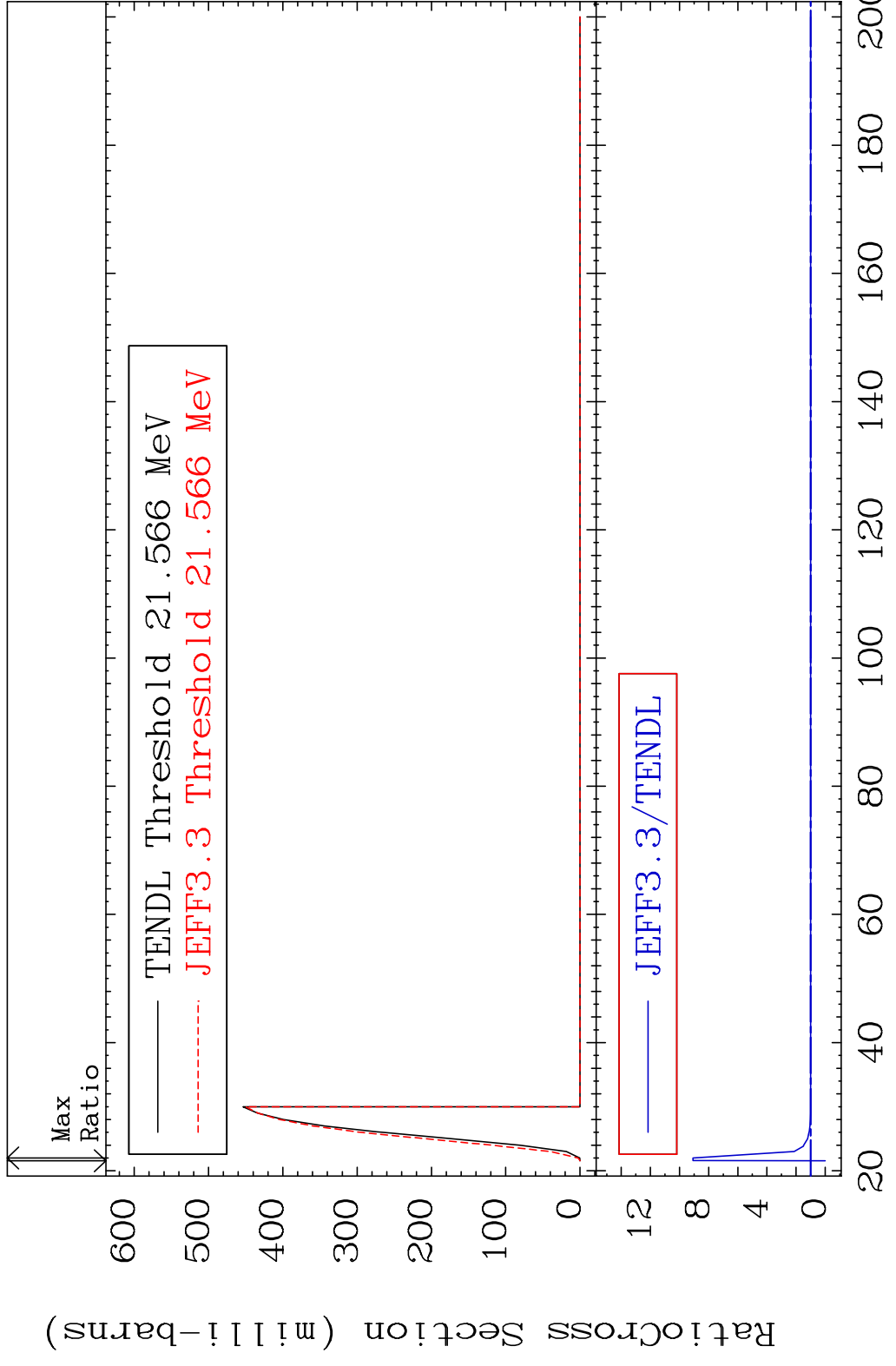


5

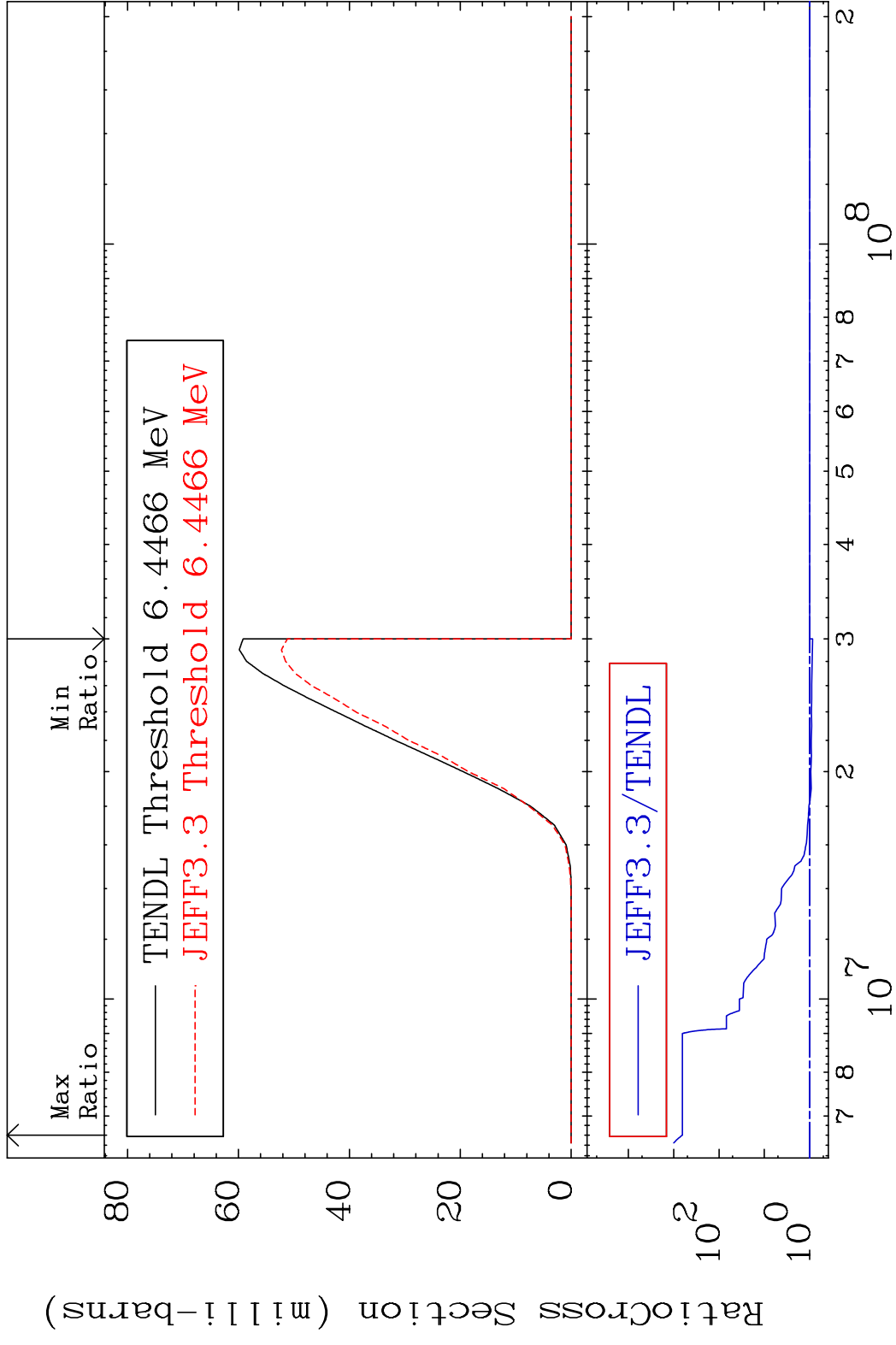
Incident Energy (eV)

39-Y -87

MAT 3919 (n,3n) 39-Y -87
 Cross Section -100.0 To 808.0 %

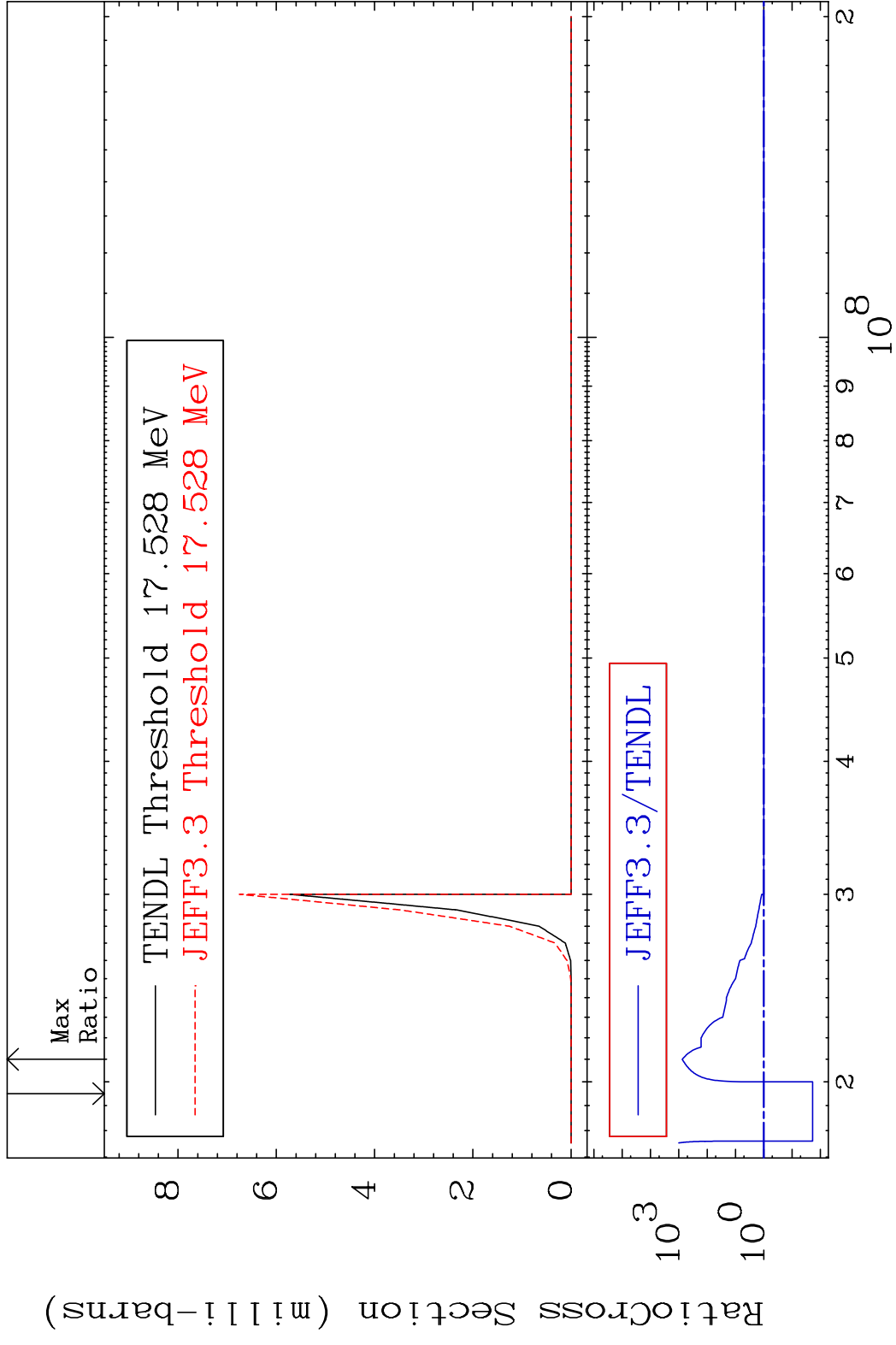


MAT 3919 (n, n') α 39-Y -87
 Cross Section -13.51 To 9999. %



7 39-Y -87

MAT 3919 (n,2n) α 39-Y -87
 Cross Section -98.10 To 9999. %



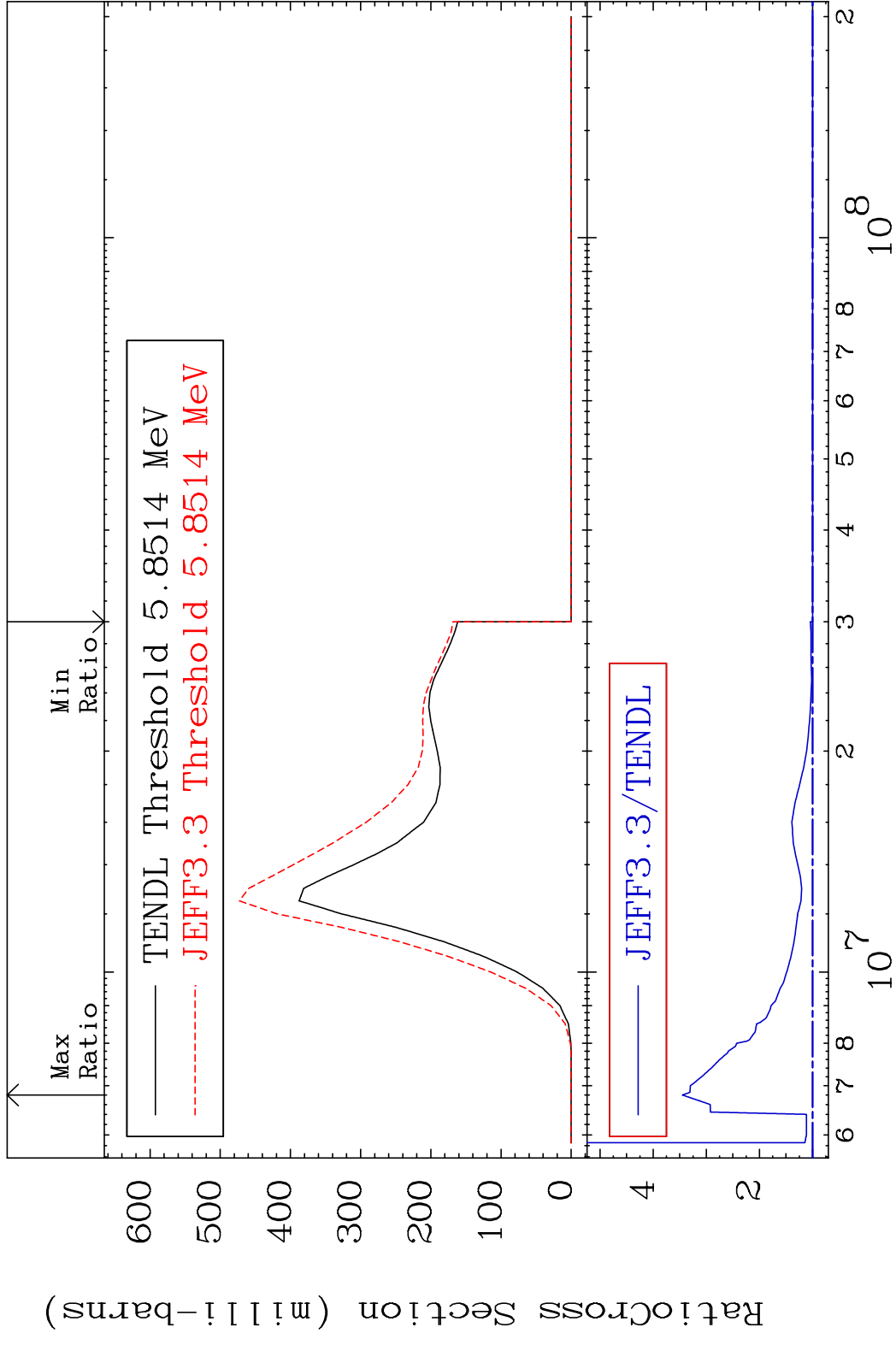
8 Incident Energy (eV) 39-Y -87

MAT 3919

(n, n') p

39-Y -87

Cross Section 0.000 To 245.1 %



9

Incident Energy (eV)

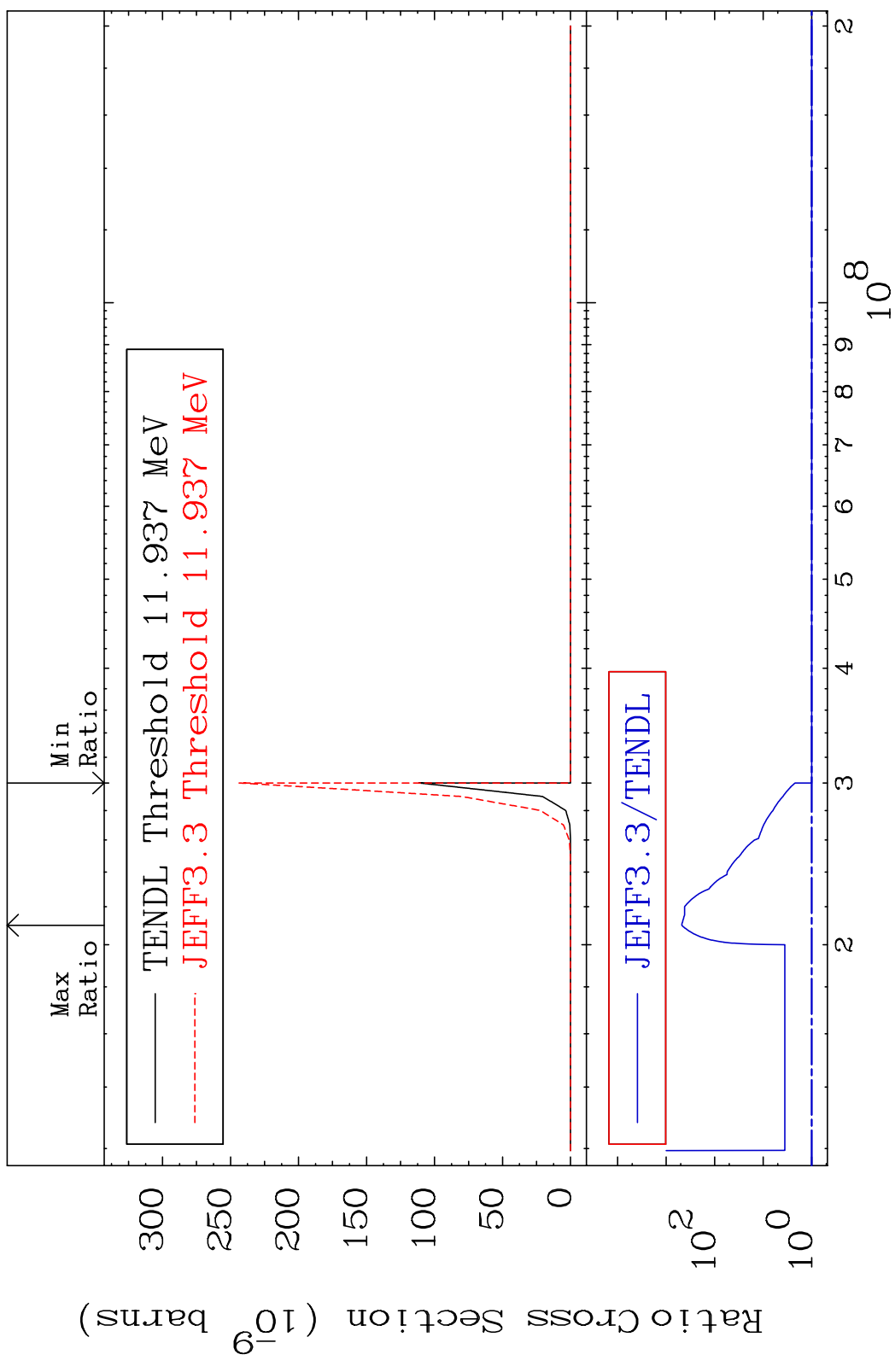
39-Y -87

MAT 3919

(n, n') 2α

39-Y -87

Cross Section 0.000 To 9999. %

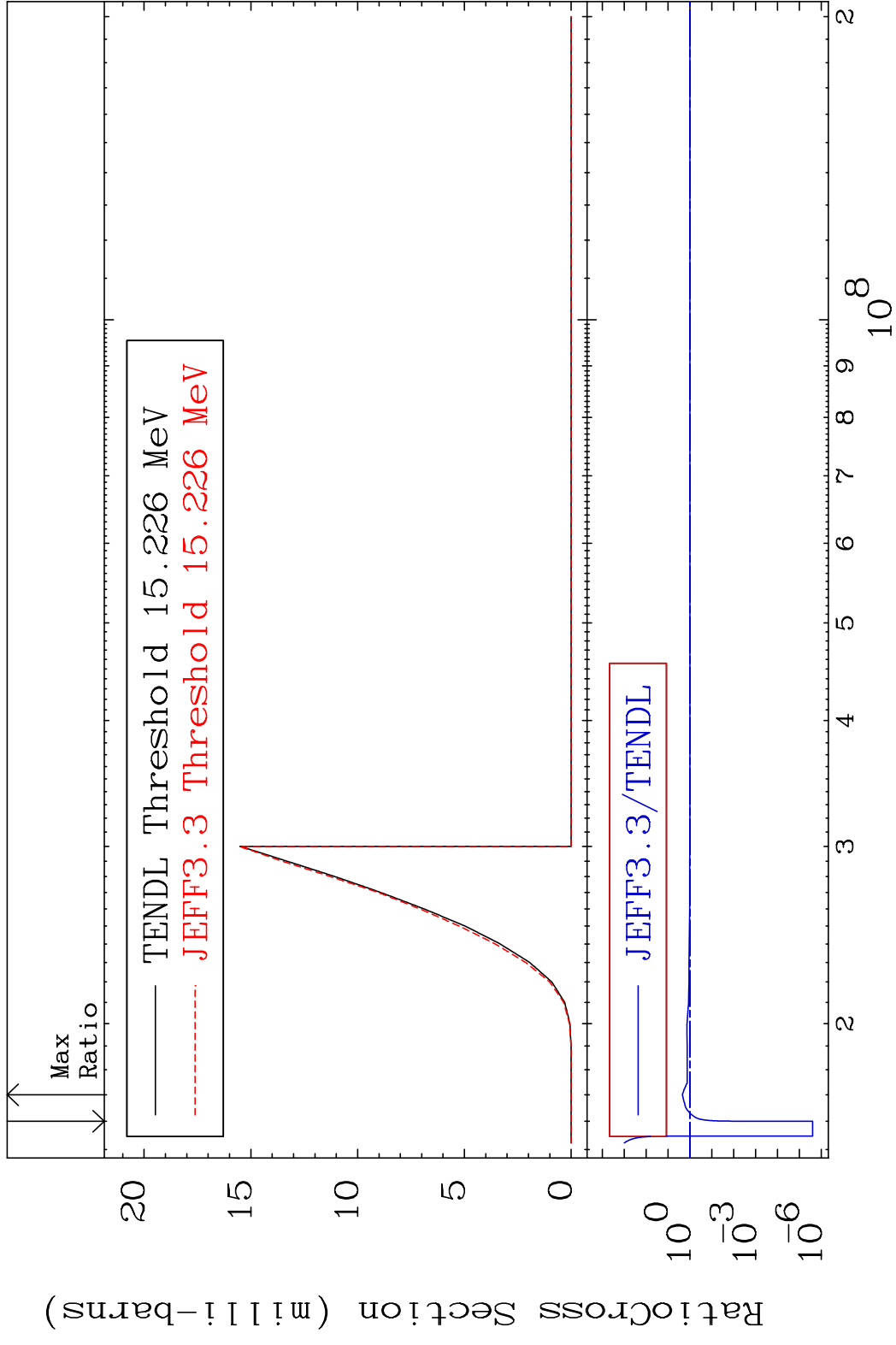


10

Incident Energy (eV)

39-Y -87

MAT 3919 (n, n') d 39-Y -87
 Cross Section -100.0 To 121.5 %

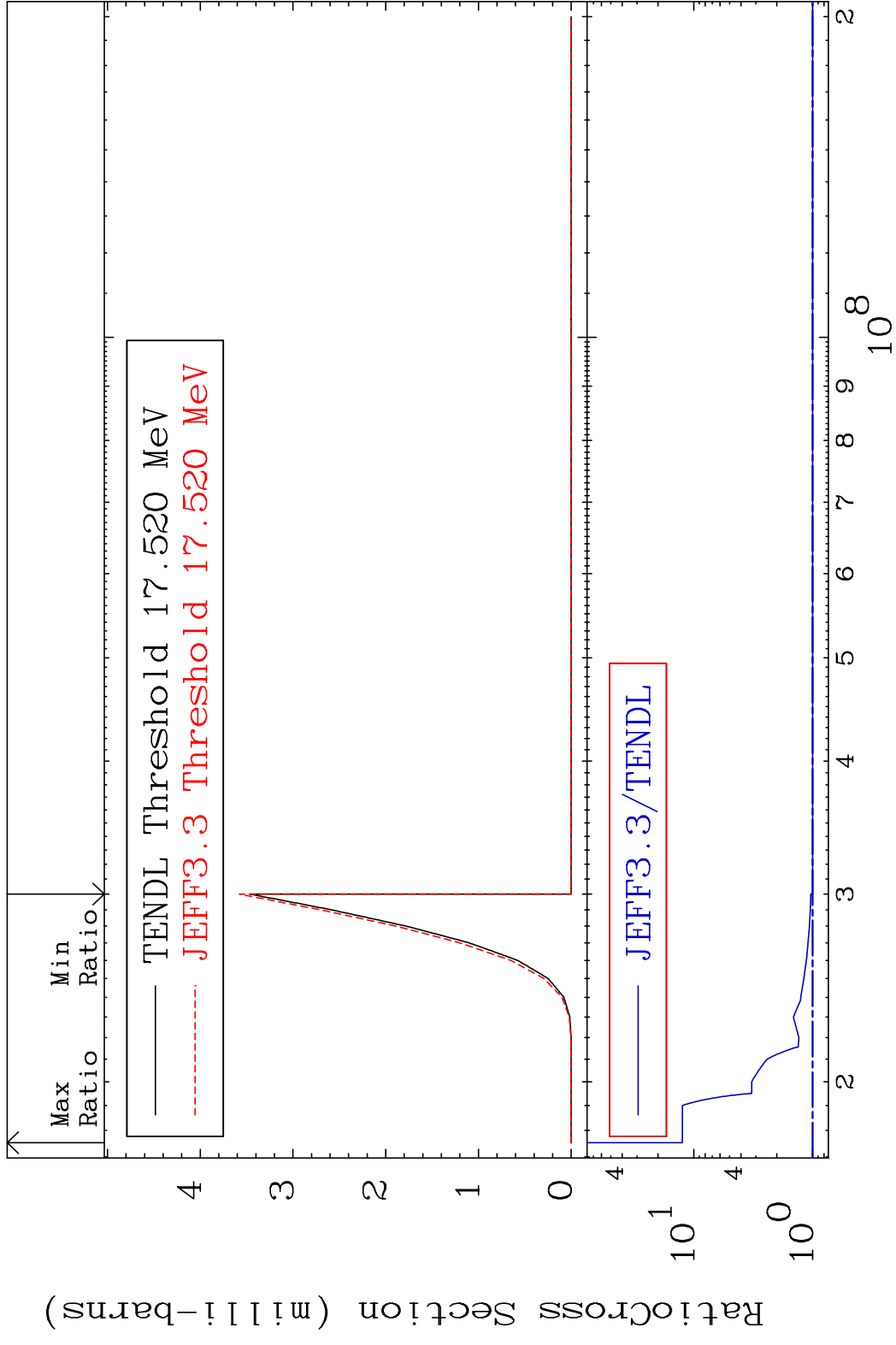


MAT 3919

(n, n') t

39-Y -87

Cross Section 0.000 To 1147. %



12

Incident Energy (eV)

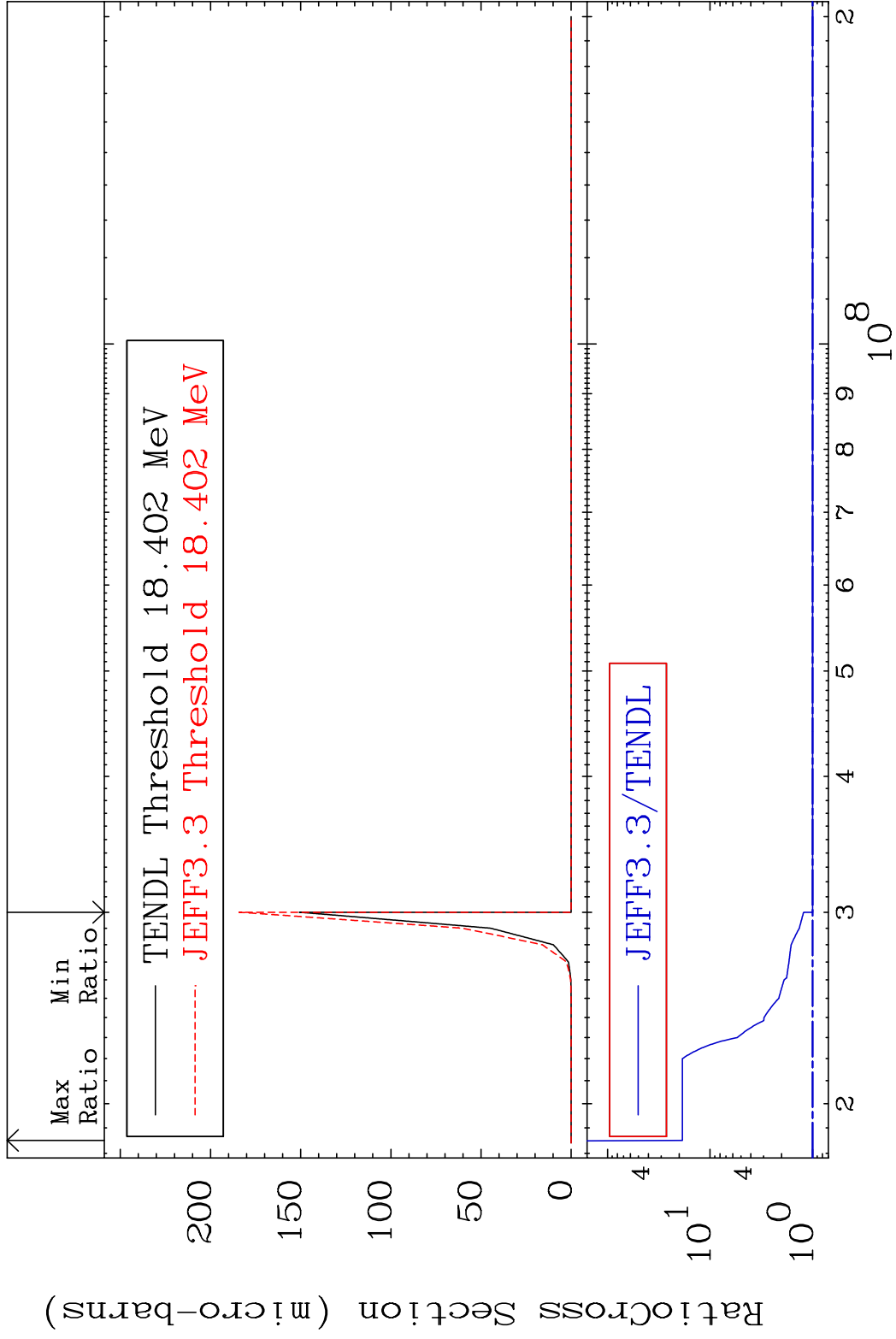
39-Y -87

MAT 3919

(n,n') He-3

39-Y -87

Cross Section 0.000 To 1763. %

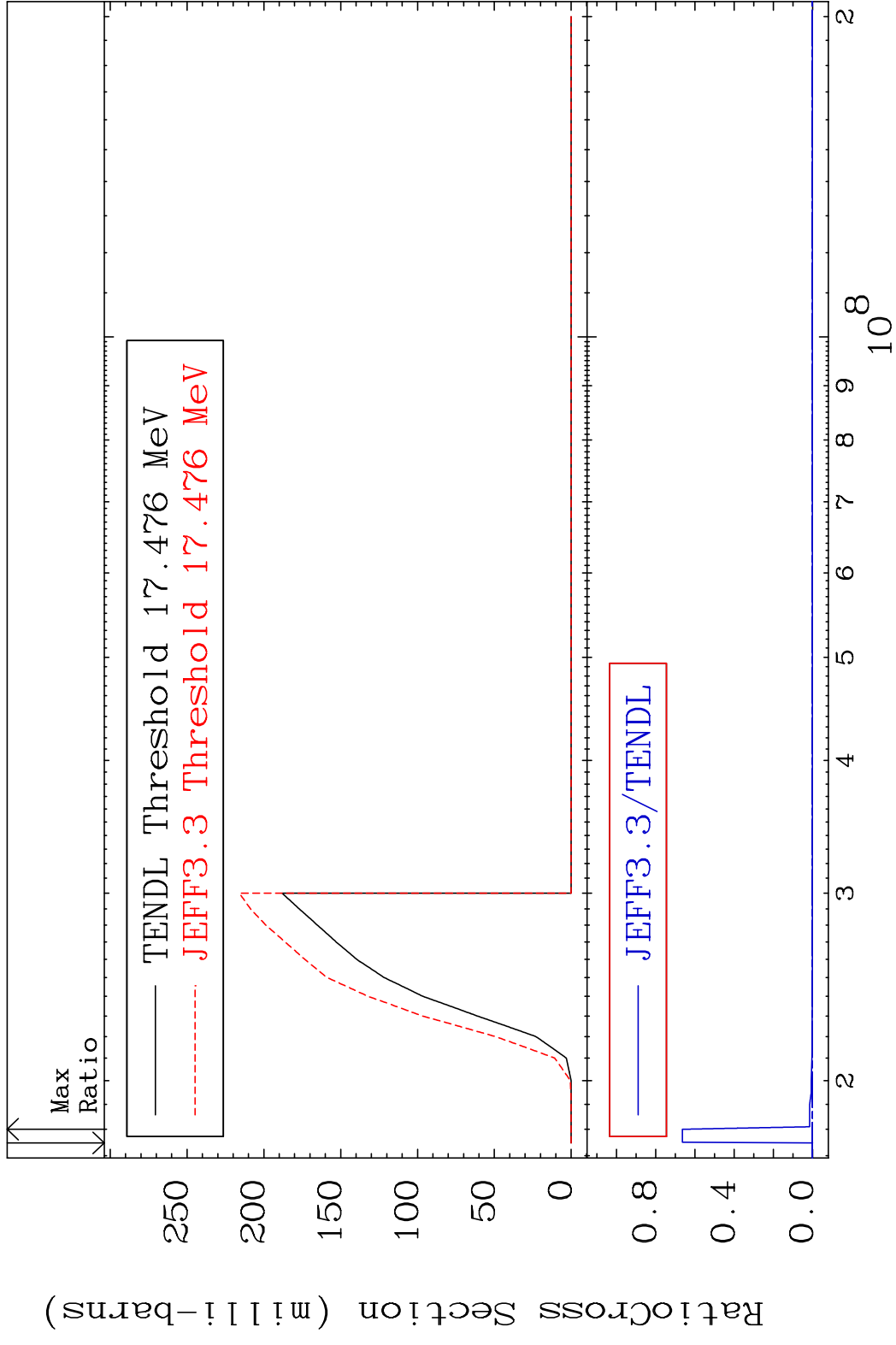


13

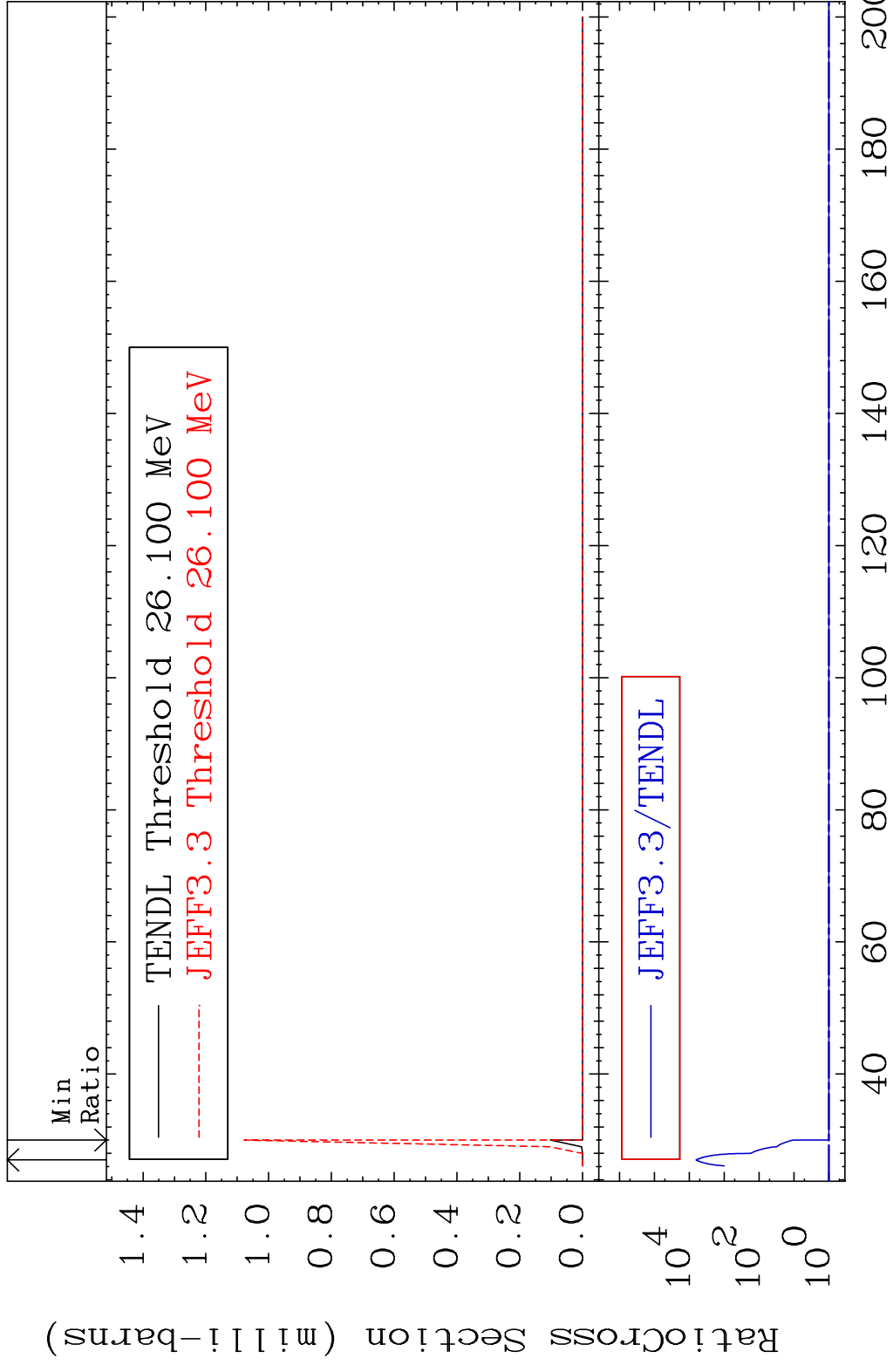
Incident Energy (eV)

39-Y -87

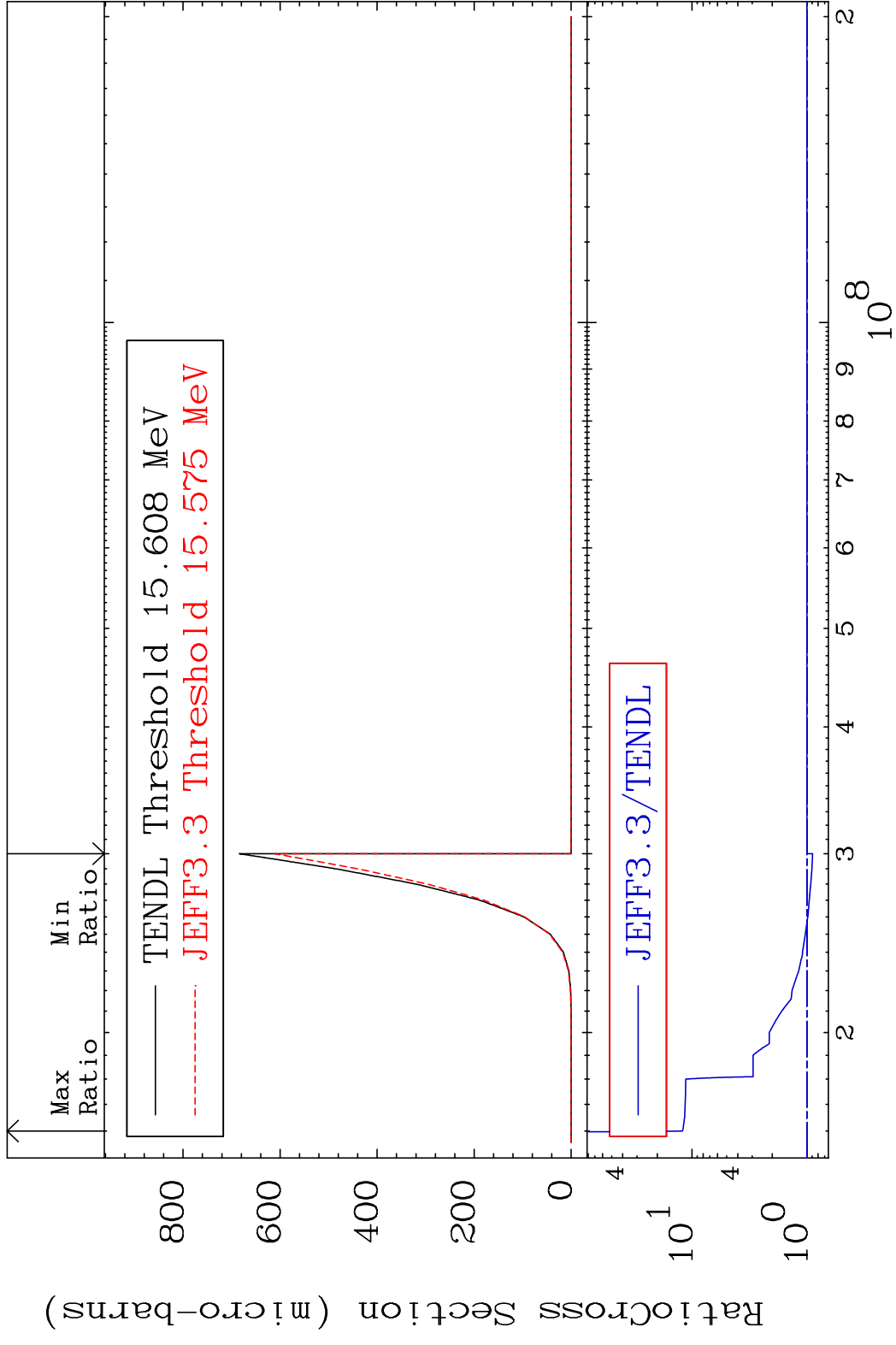
MAT 3919 (n,2n) p 39-Y -87
 Cross Section -100.0 To 9999. %



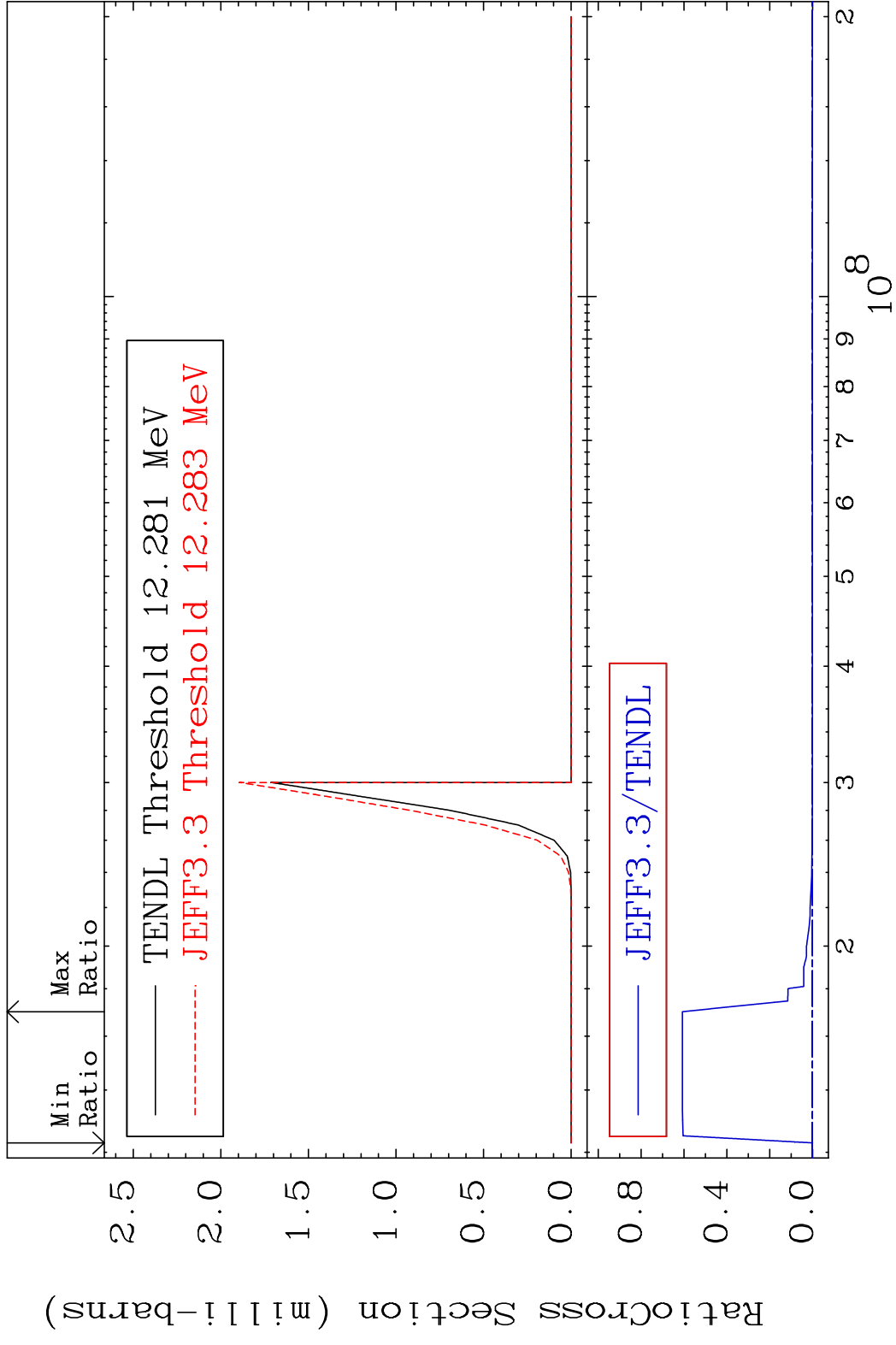
MAT 3919 (n,3n) p 39-Y -87
 Cross Section 0.000 To 9999. %



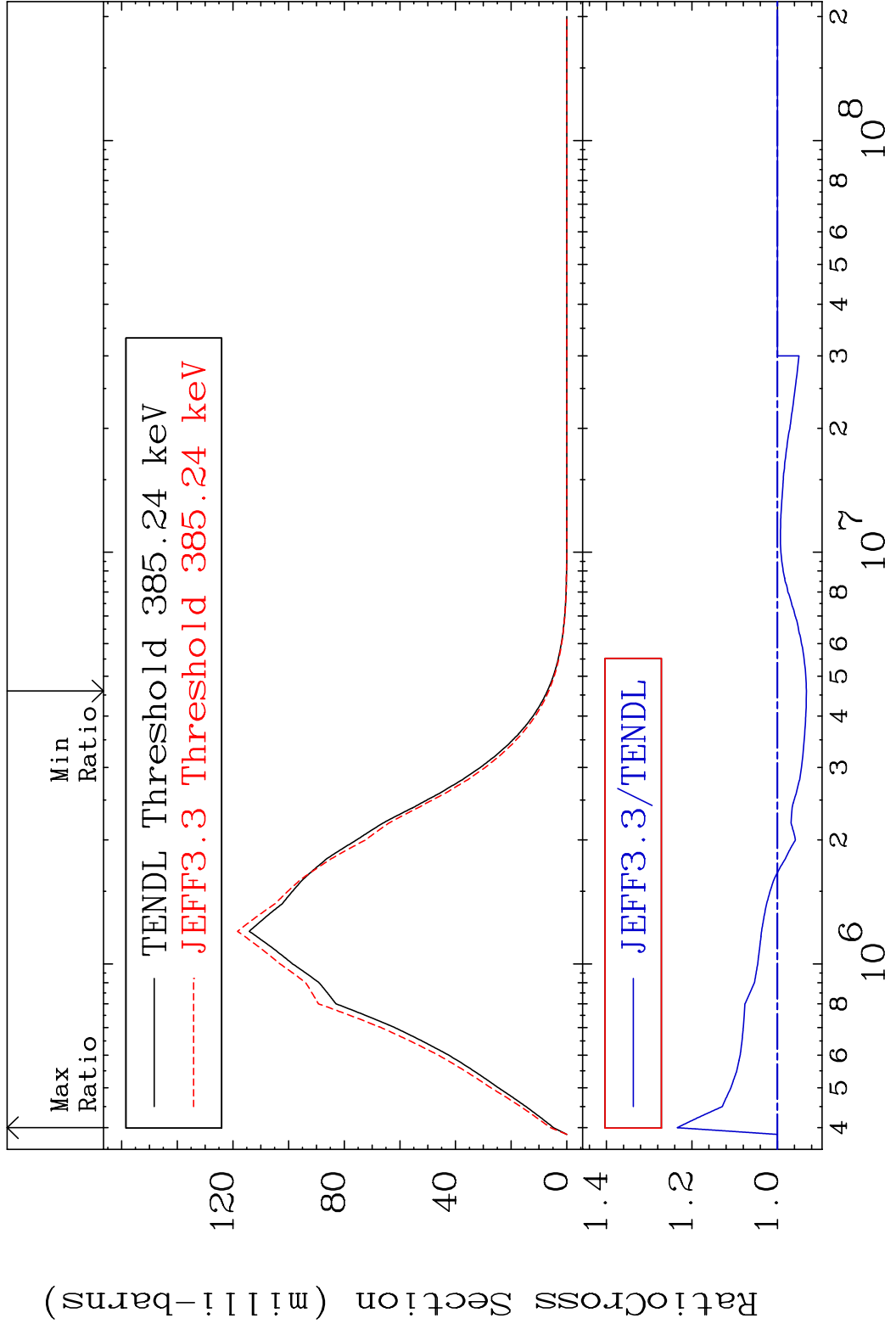
MAT 3919 (n,2n) p 39-Y -87
 Cross Section -10.65 To 1112. %



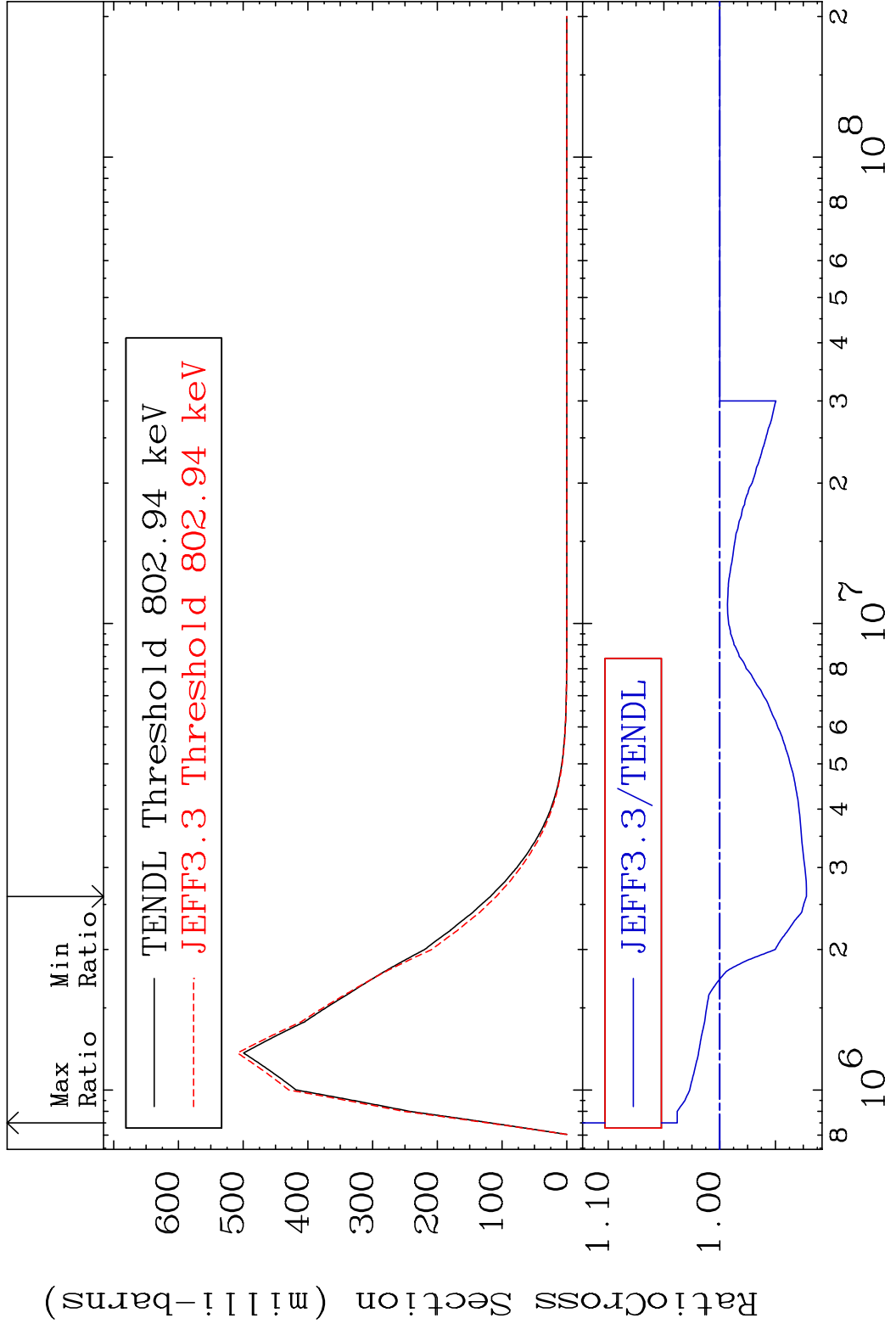
MAT 3919 (n,n') p α 39-Y -87
 Cross Section -100.0 To 9999. %



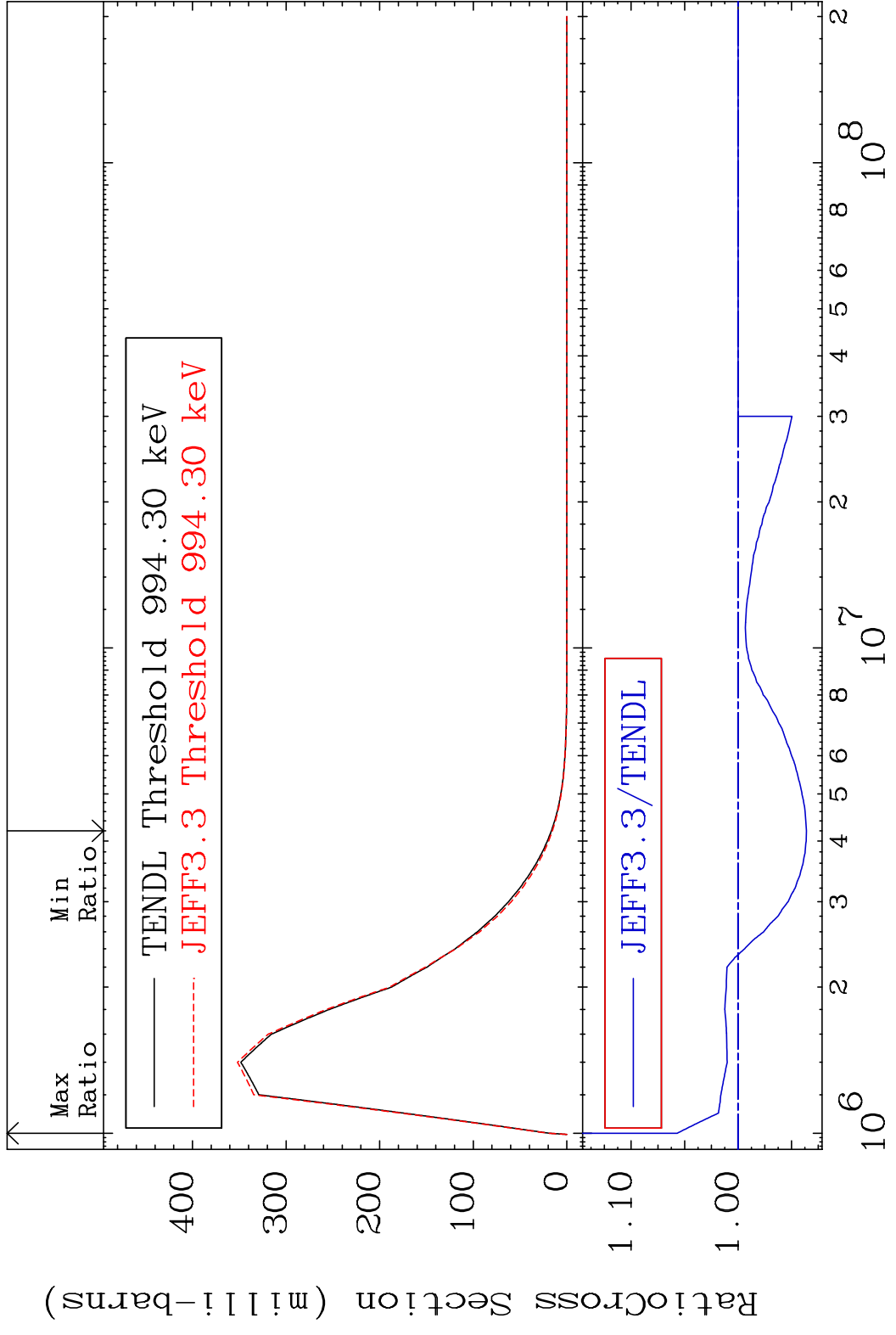
MAT 3919 MT= 51 (n,n') Level 39-Y -87
 Cross Section -6.787 To 23.44 %



MAT 3919 MT= 52 (n,n') Level 39-Y -87
 Cross Section -7.777 To 3.813 %

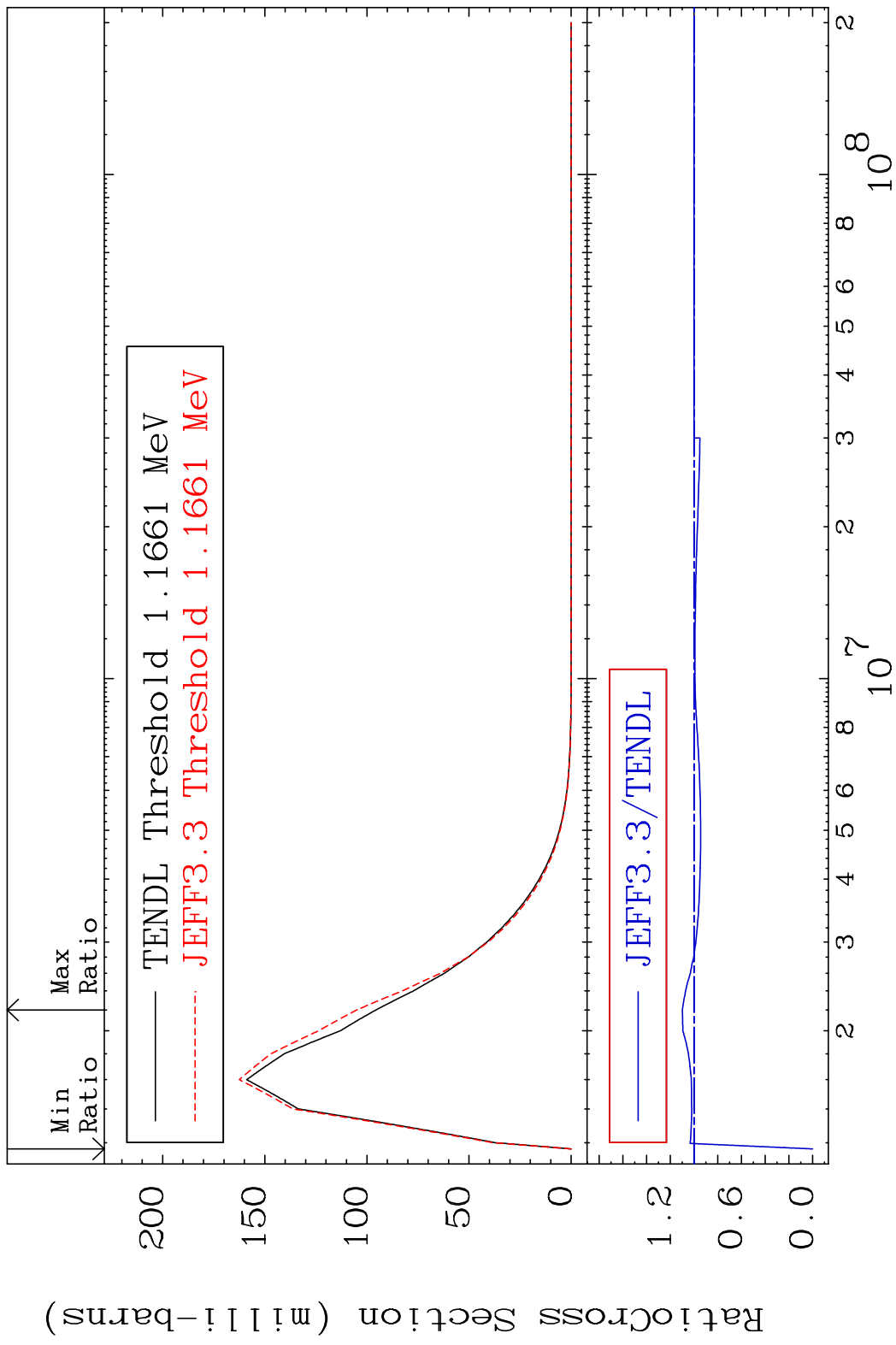


MAT 3919 MT= 53 (n,n') Level 39-Y -87
 Cross Section -6.387 To 5.695 %

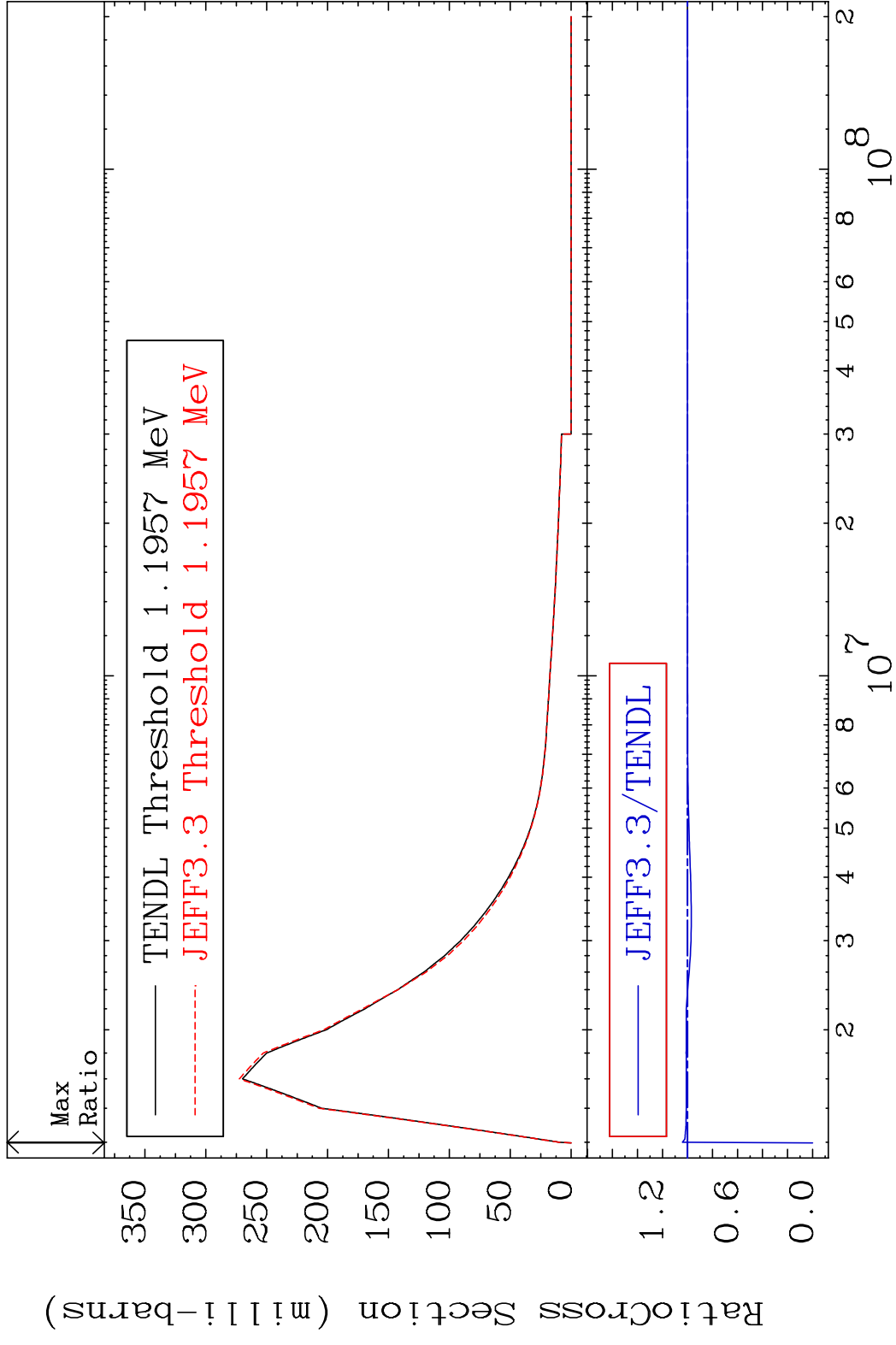


20 Incident Energy (eV) 39-Y -87

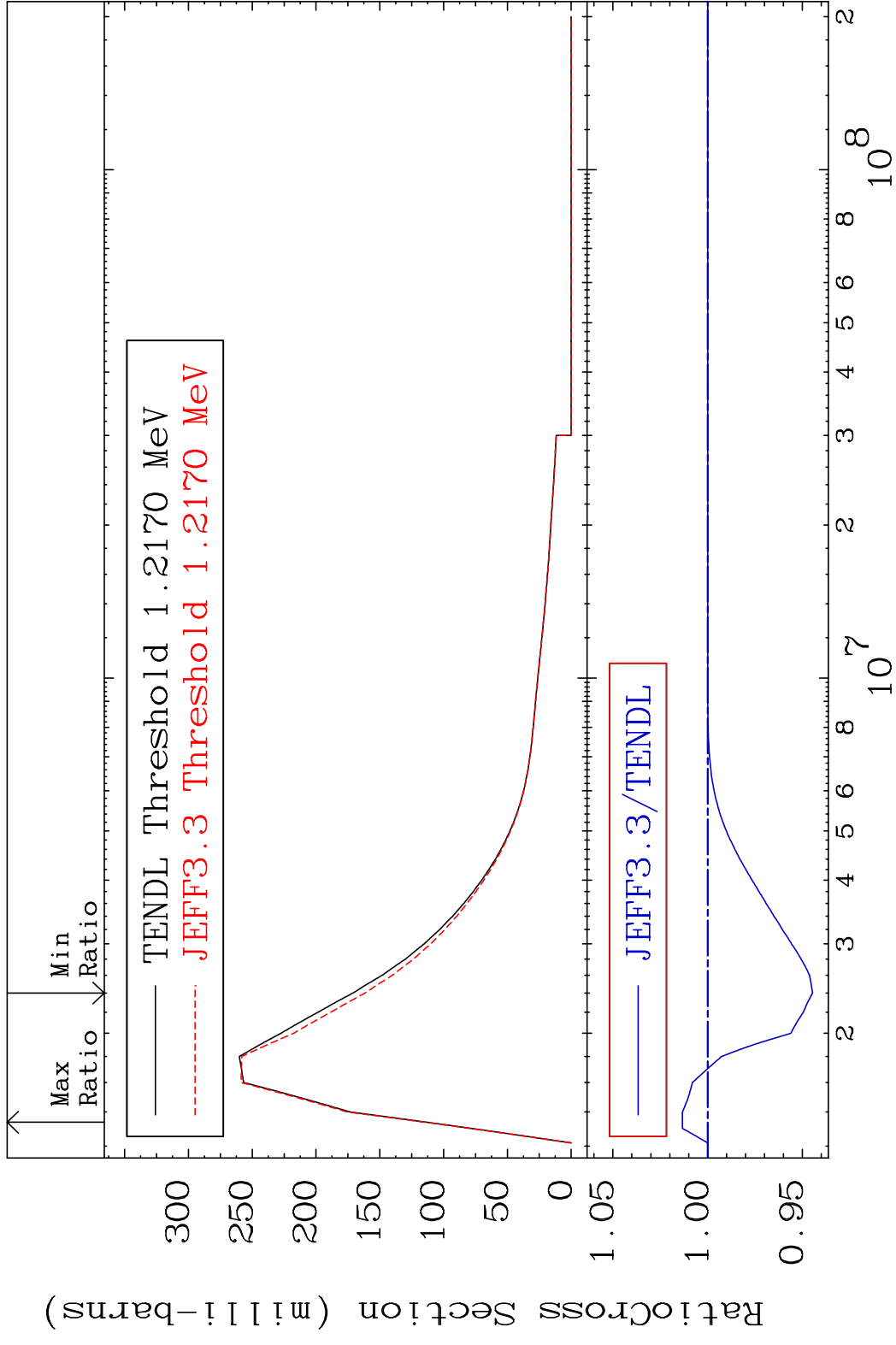
MAT 3919 MT= 54 (n, n') Level 39-Y -87
 Cross Section -100.0 To 9.837 %



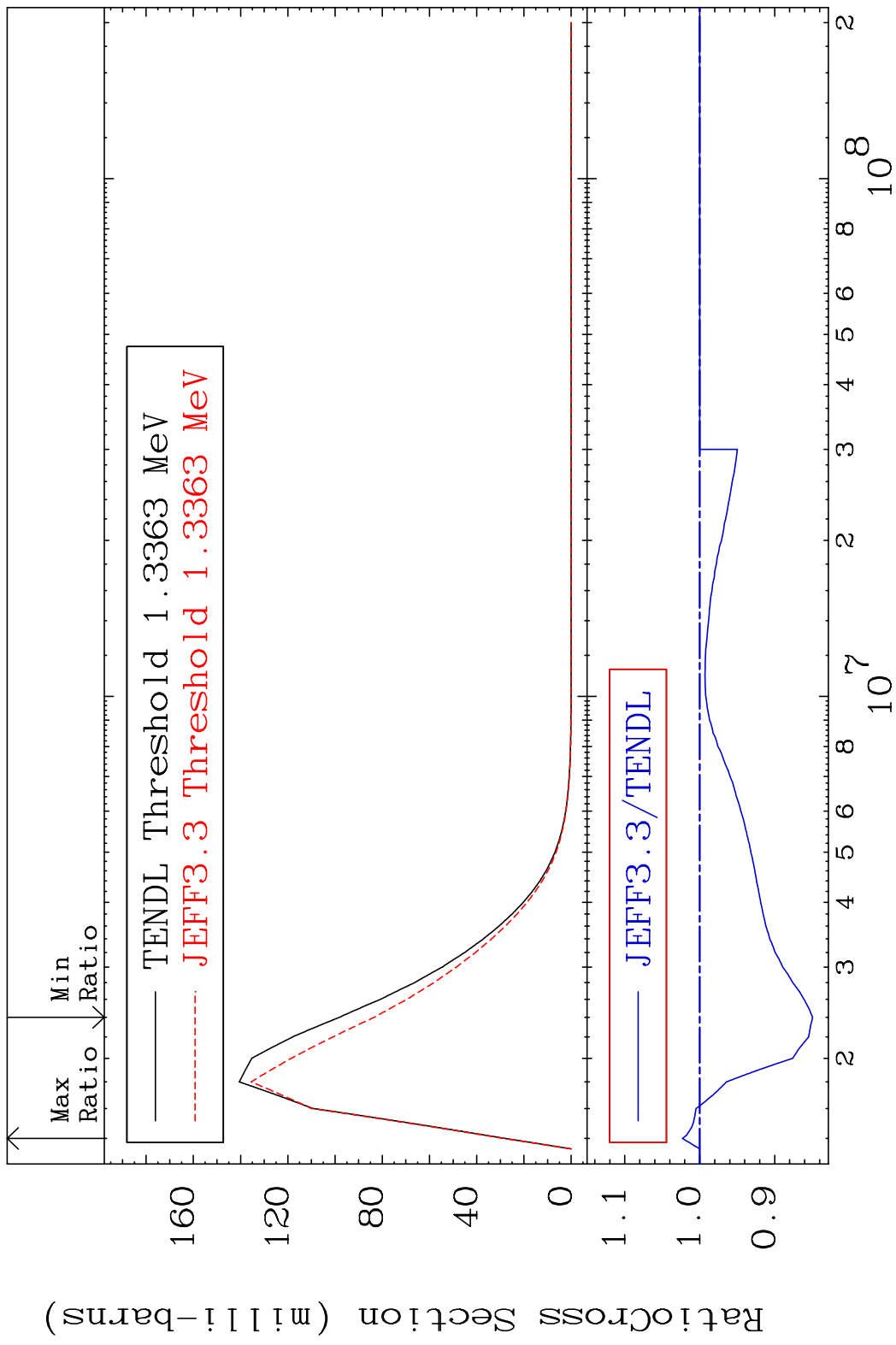
MAT 3919 MT= 55 (n,n') Level 39-Y -87
 Cross Section -100.0 To 4.128 %



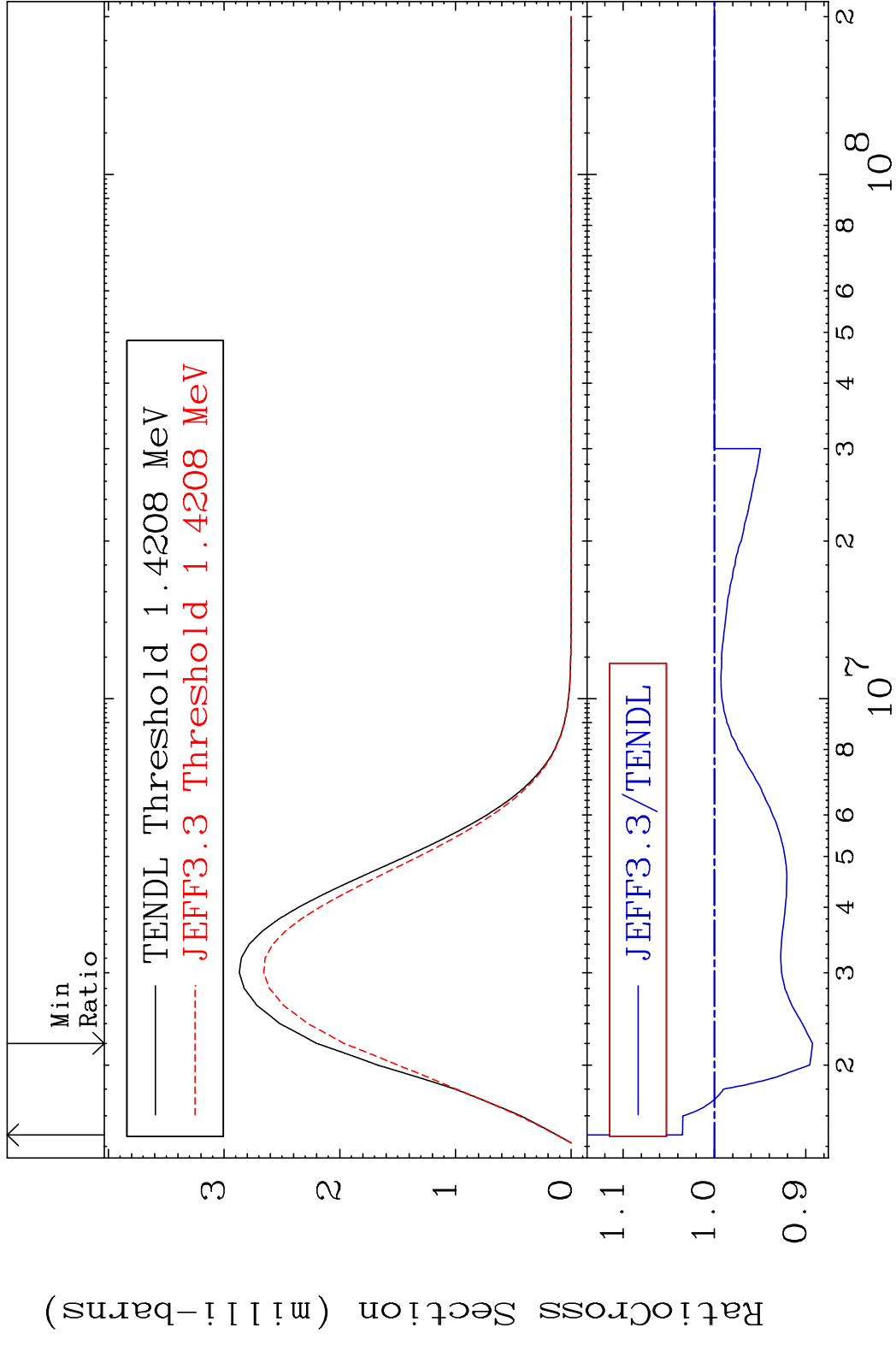
MAT 3919 MT= 56 (n,n') Level 39-Y -87
 Cross Section -5.535 To 1.336 %



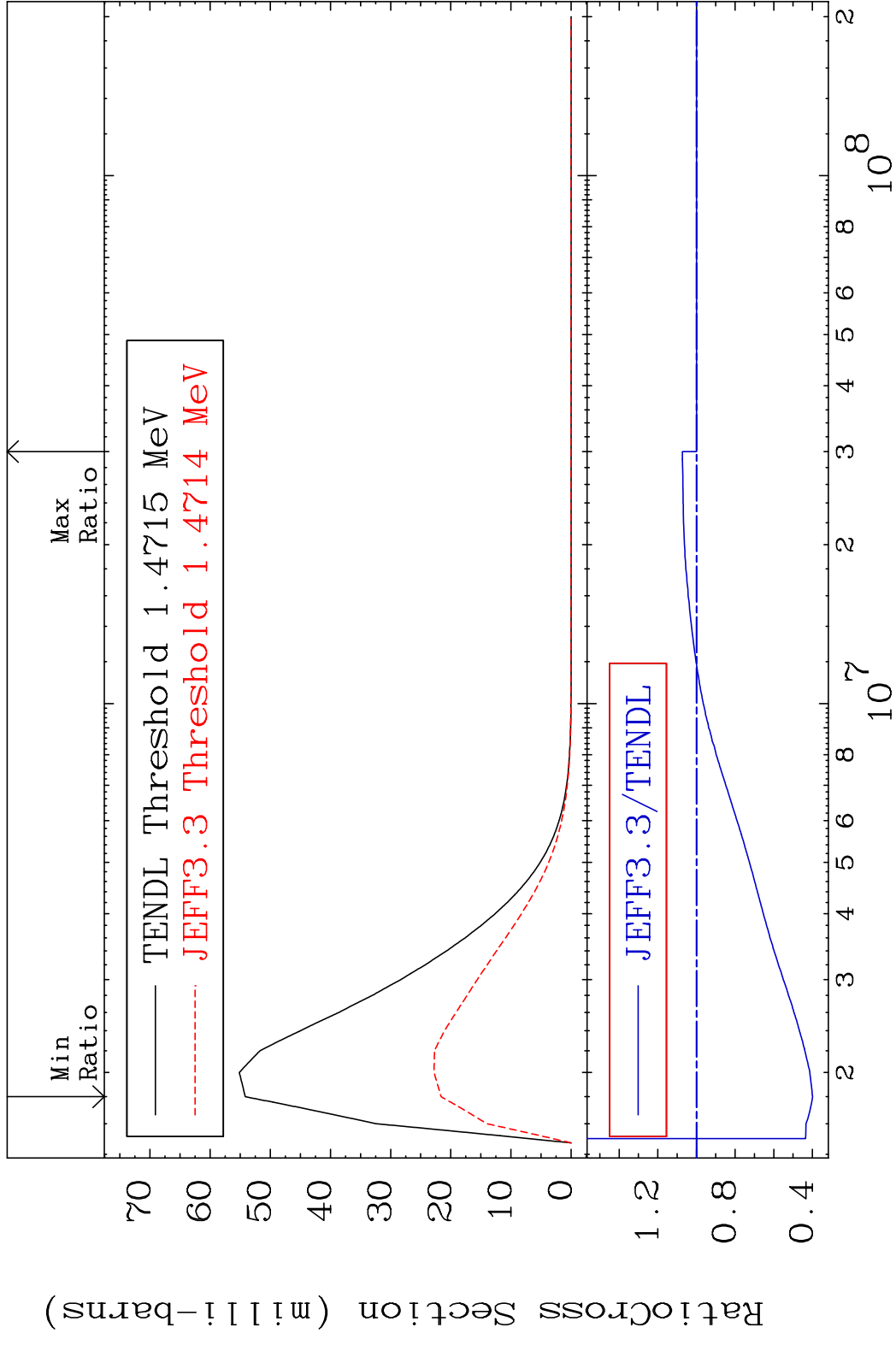
MAT 3919 MT= 57 (n, n') Level 39-Y -87
 Cross Section -15.05 To 2.317 %



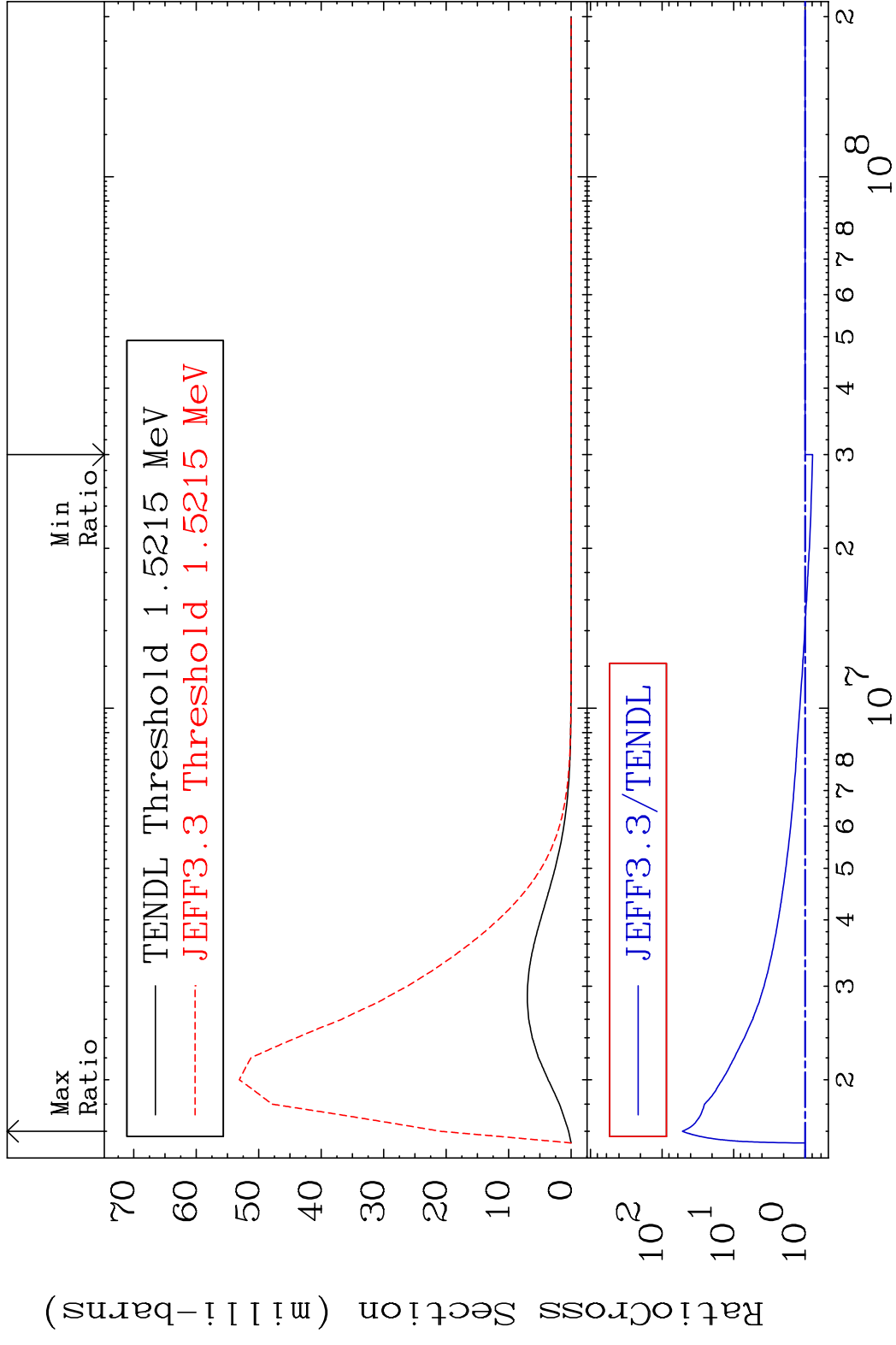
MAT 3919 MT= 58 (n,n') Level 39-Y -87
 Cross Section -10.74 To 3.509 %



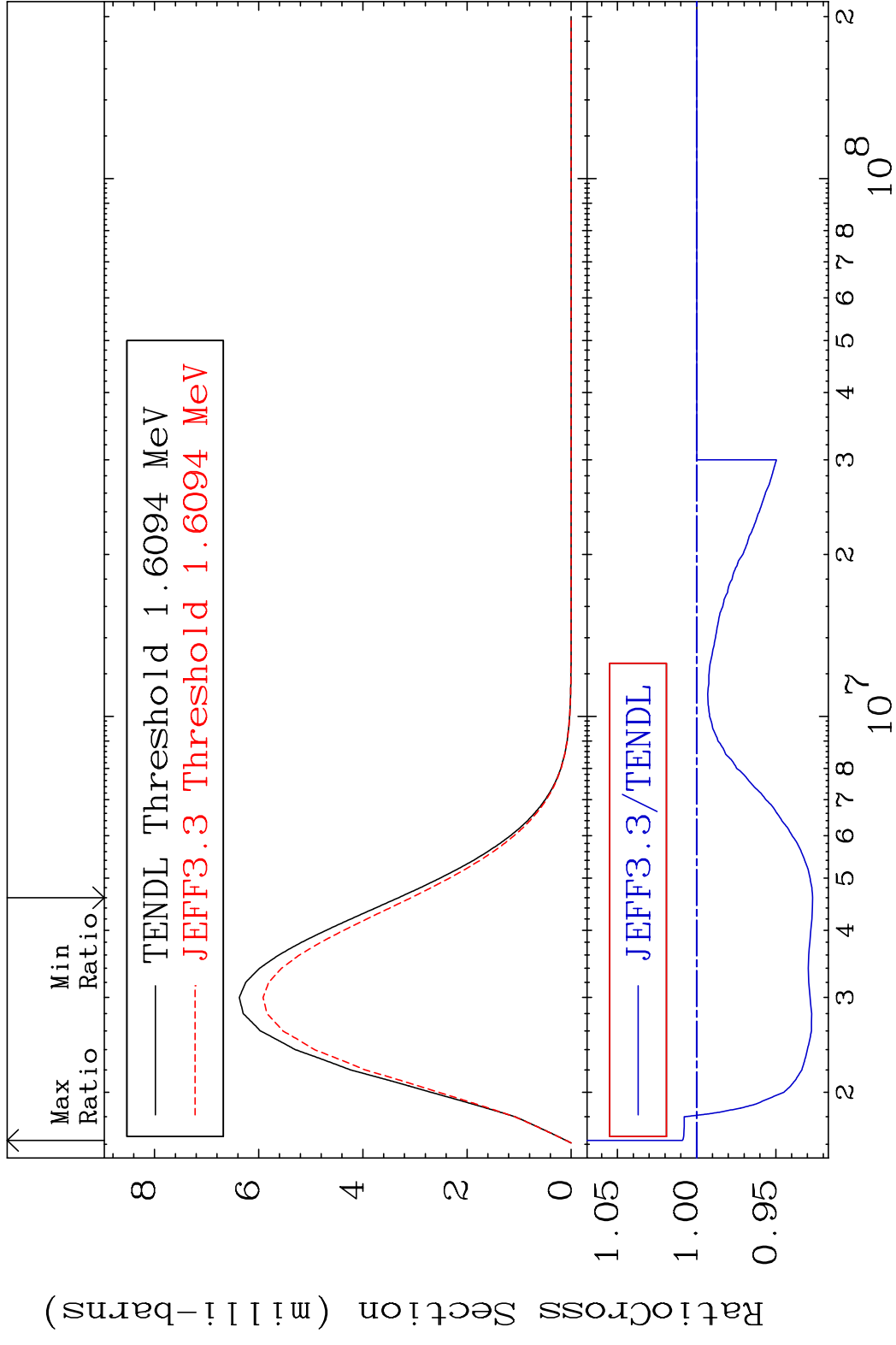
MAT 3919 MT= 59 (n, n') Level 39-Y -87
 Cross Section -60.07 To 7.300 %



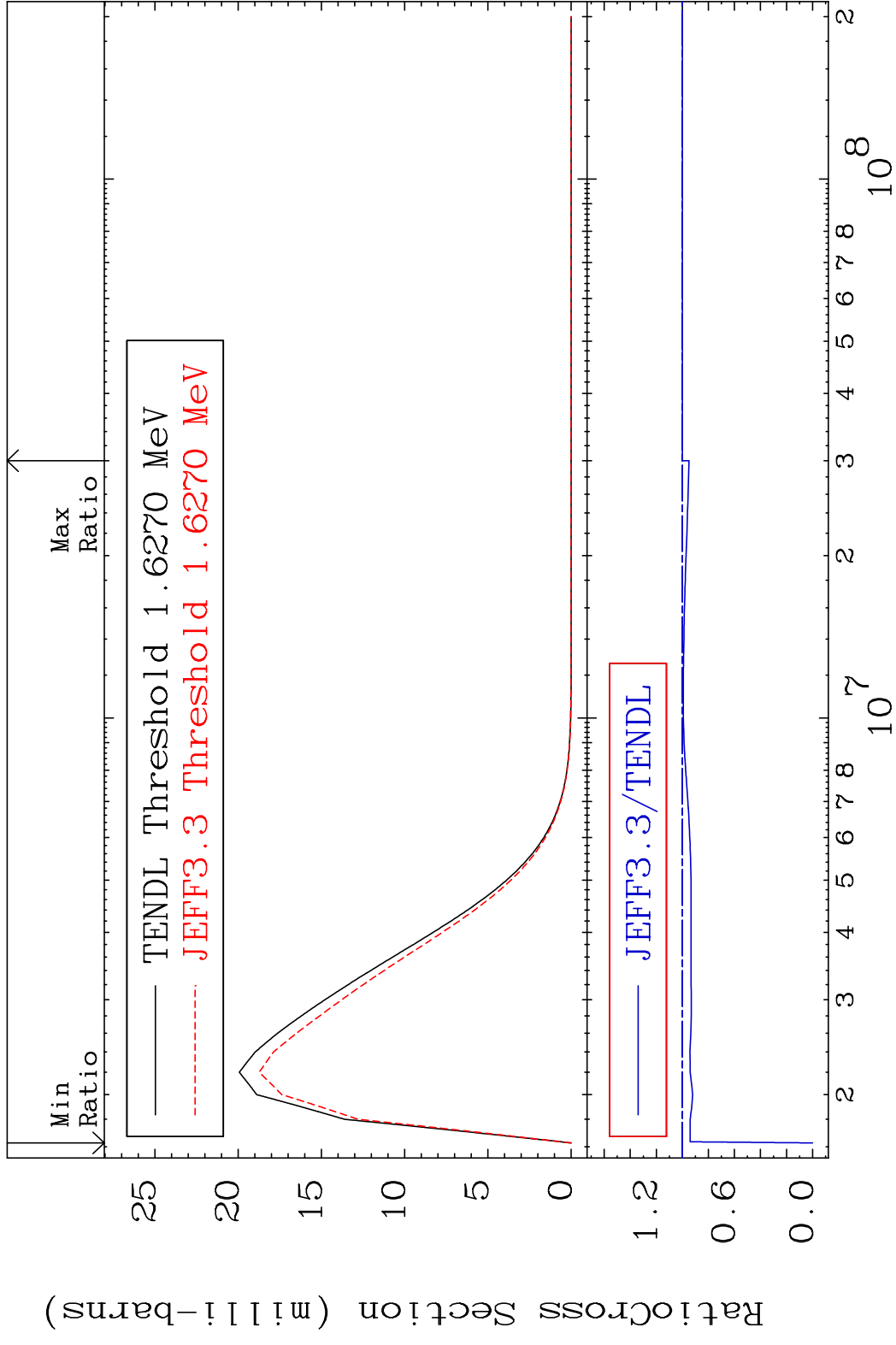
MAT 3919 MT= 60 (n, n') Level 39-Y -87
 Cross Section -21.20 To 5100. %



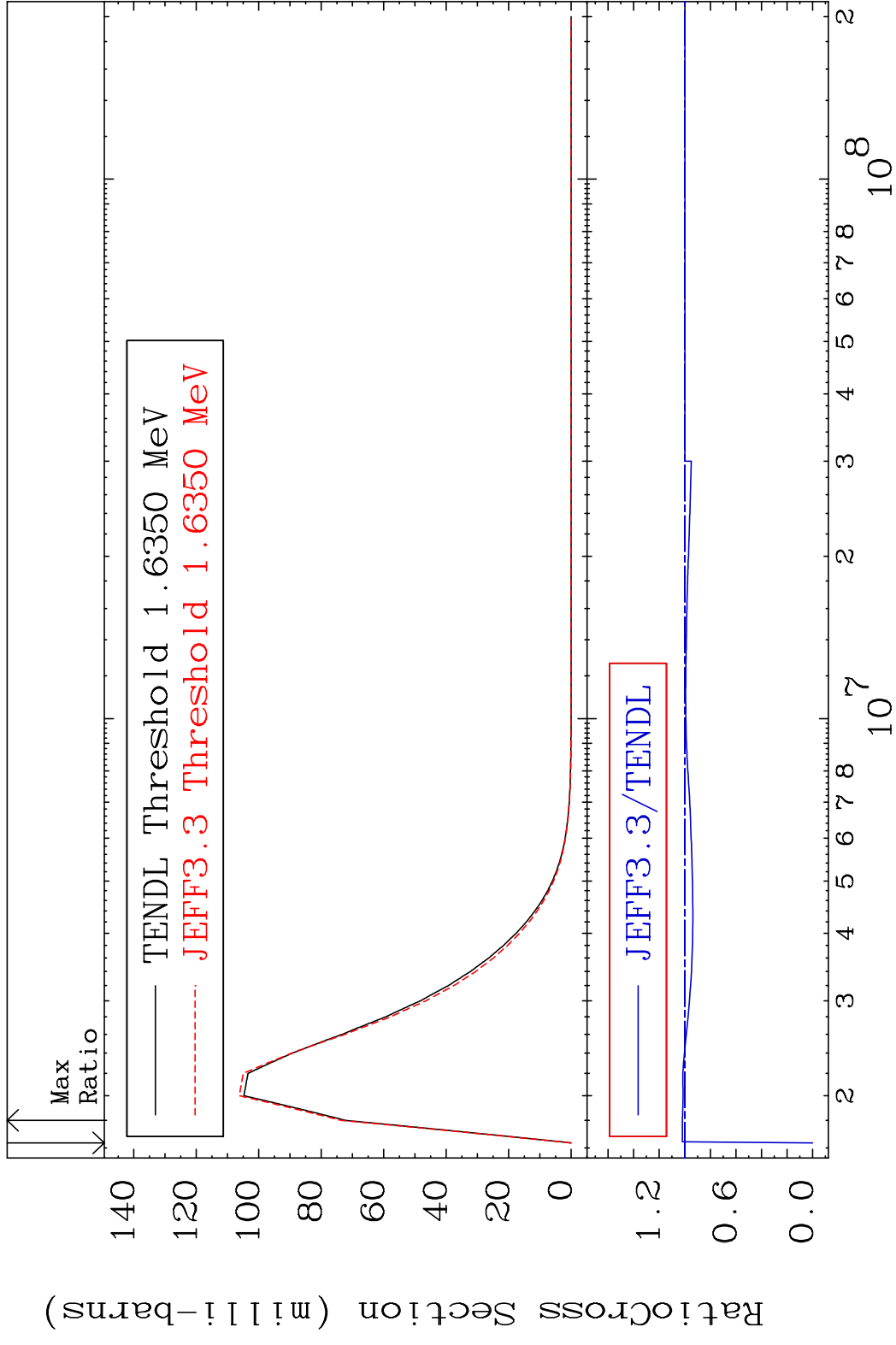
MAT 3919 MT= 61 (n,n') Level 39-Y -87
 Cross Section -7.322 To 0.903 %



MAT 3919 MT= 62 (n, n') Level 39-Y -87
 Cross Section -100.0 To 0.000 %

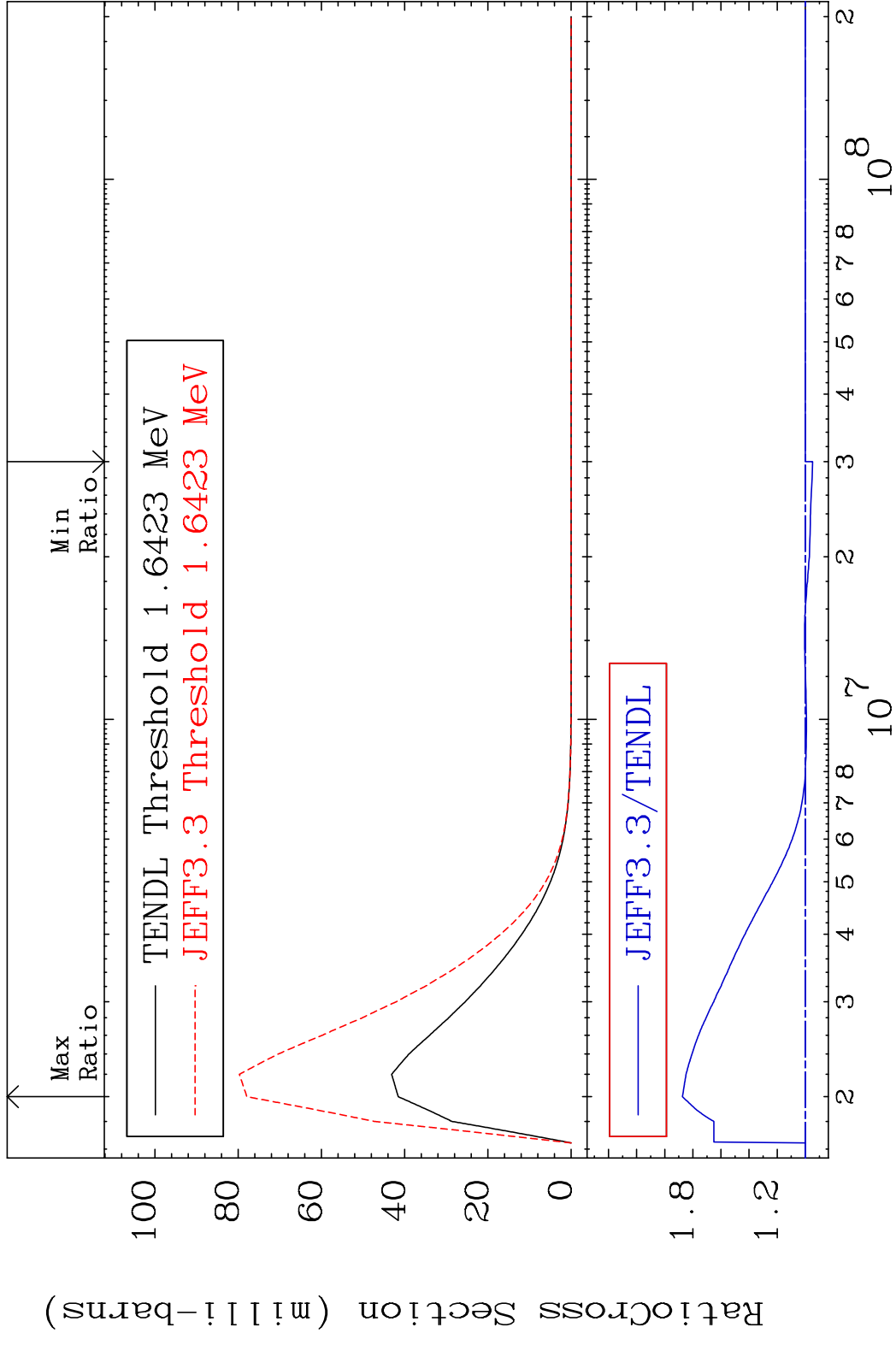


MAT 3919 MT= 63 (n, n') Level 39-Y -87
 Cross Section -100.0 To 1.905 %

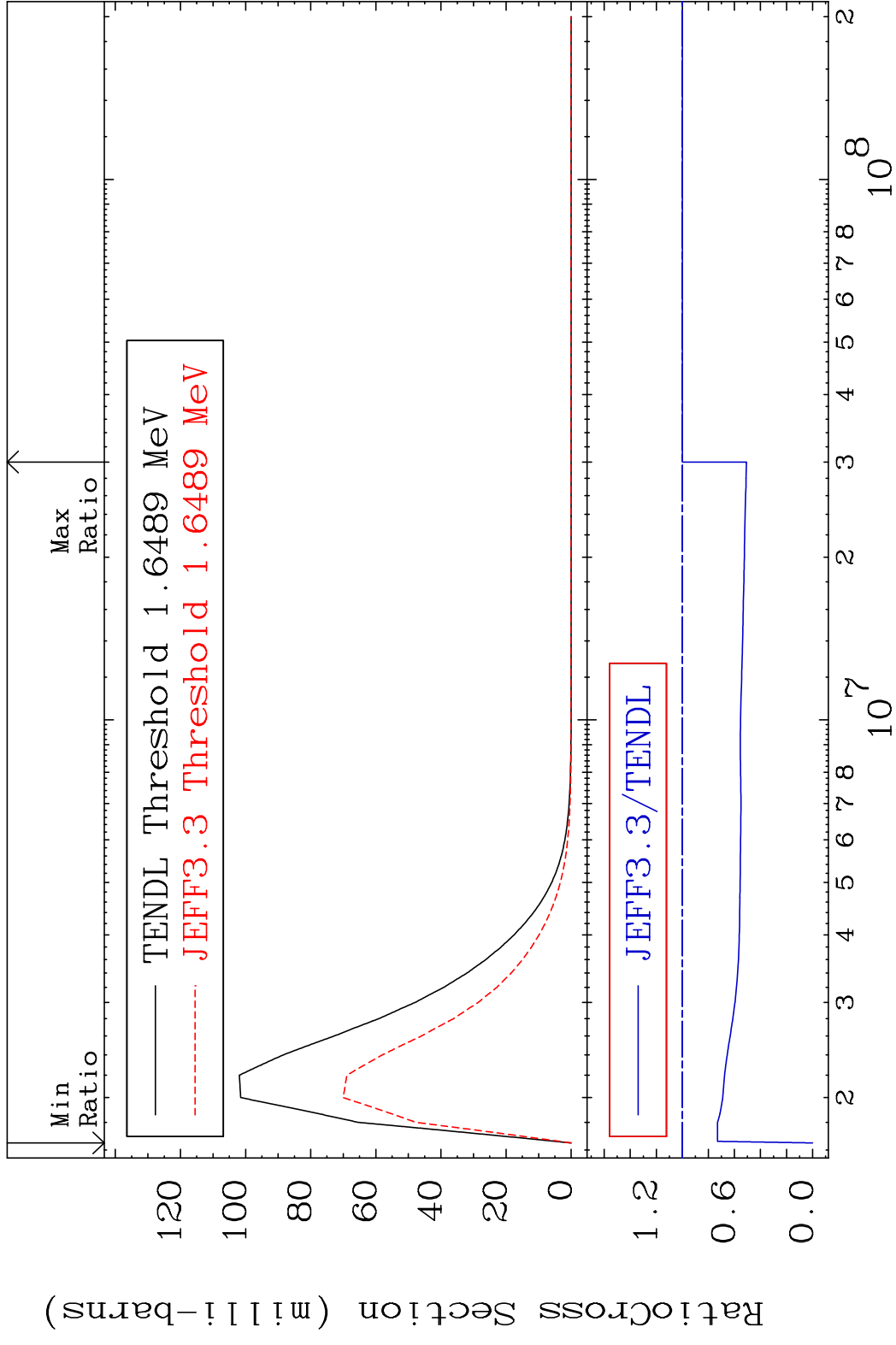


30 Incident Energy (eV) 39-Y -87

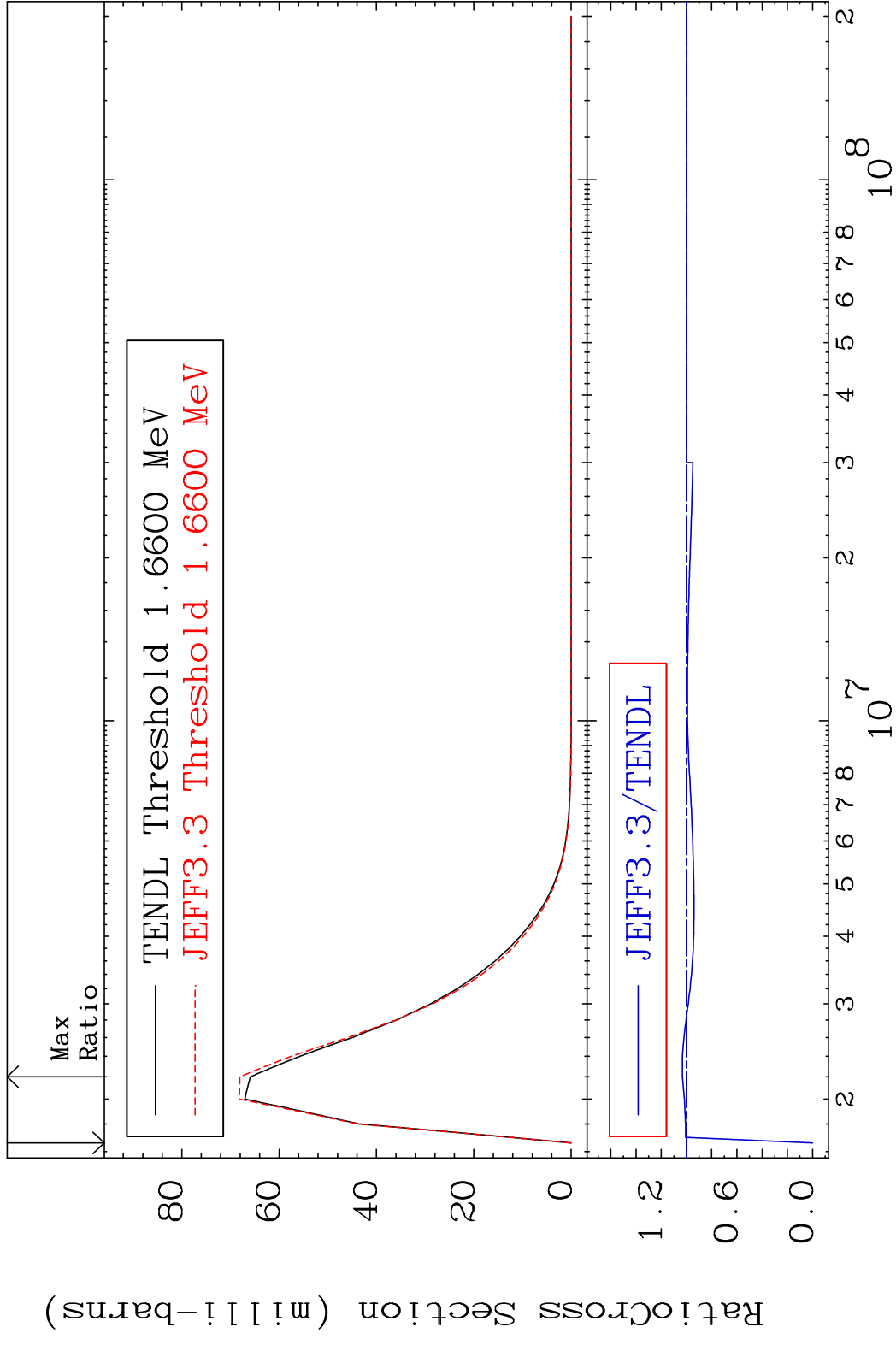
MAT 3919 MT= 64 (n,n') Level 39-Y -87
 Cross Section -5.137 To 87.46 %



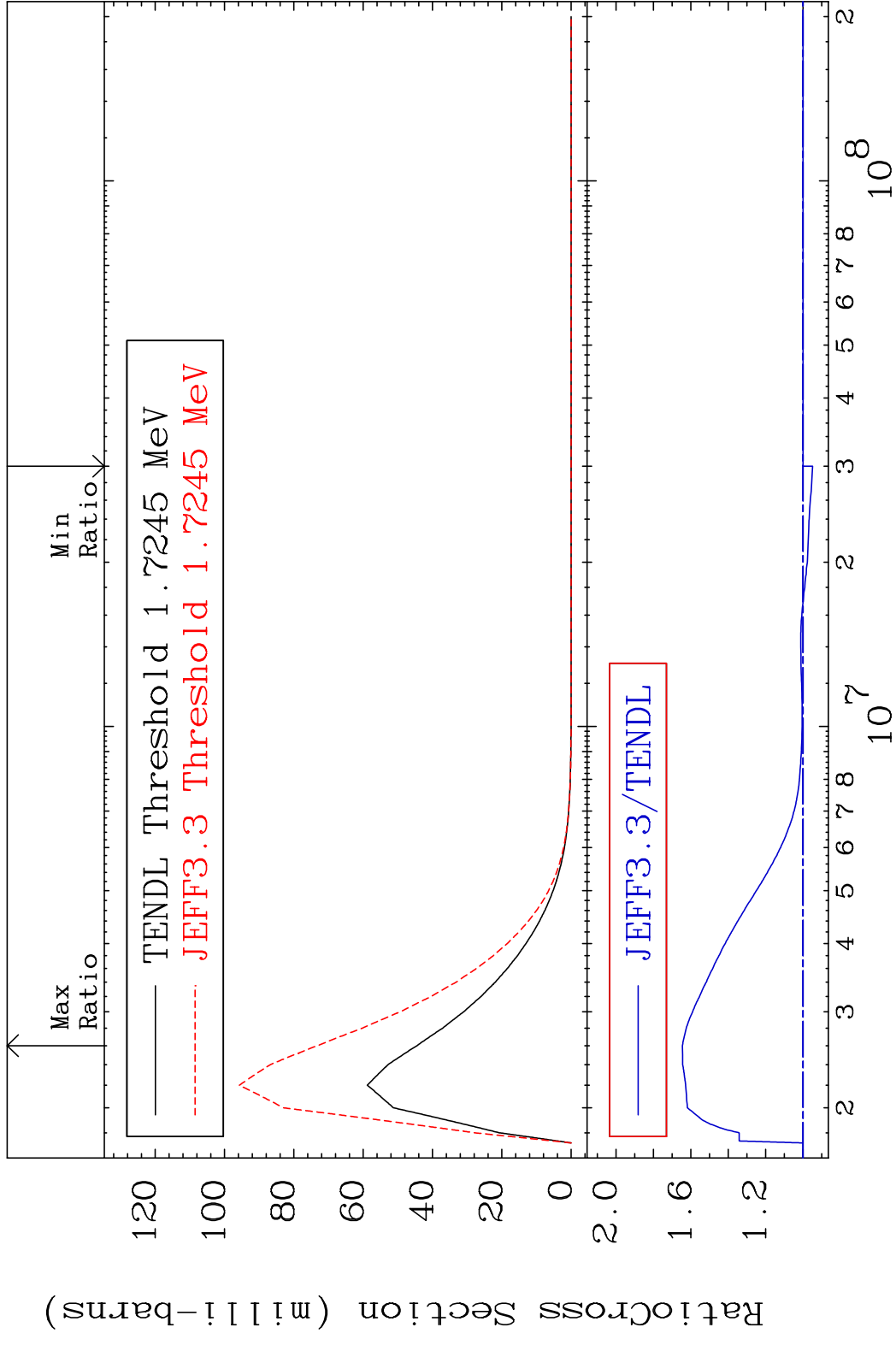
MAT 3919 MT= 65 (n, n') Level 39-Y -87
 Cross Section -100.0 To 0.000 %



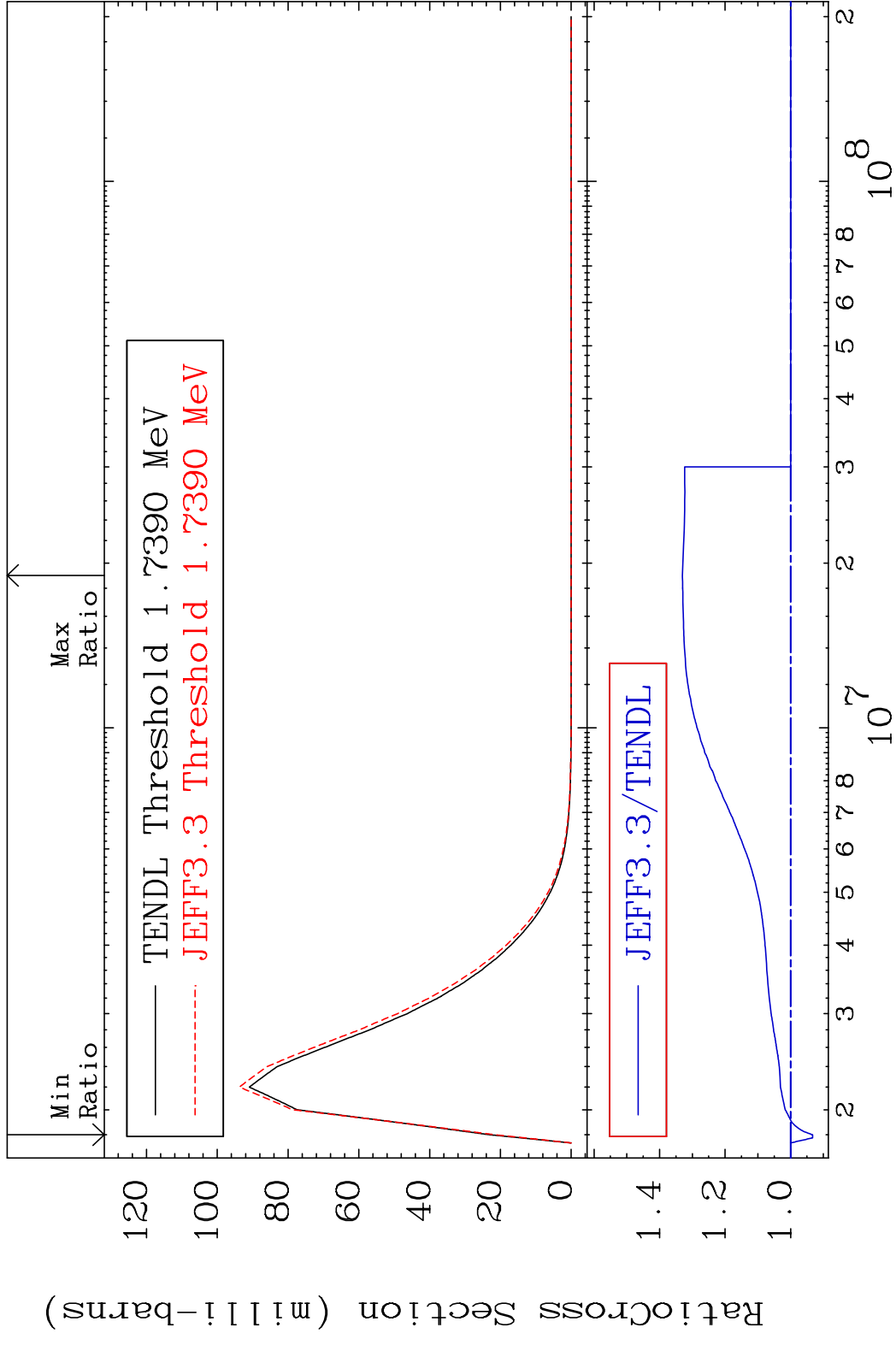
MAT 3919 MT= 66 (n, n') Level 39-Y -87
 Cross Section -100.0 To 3.255 %



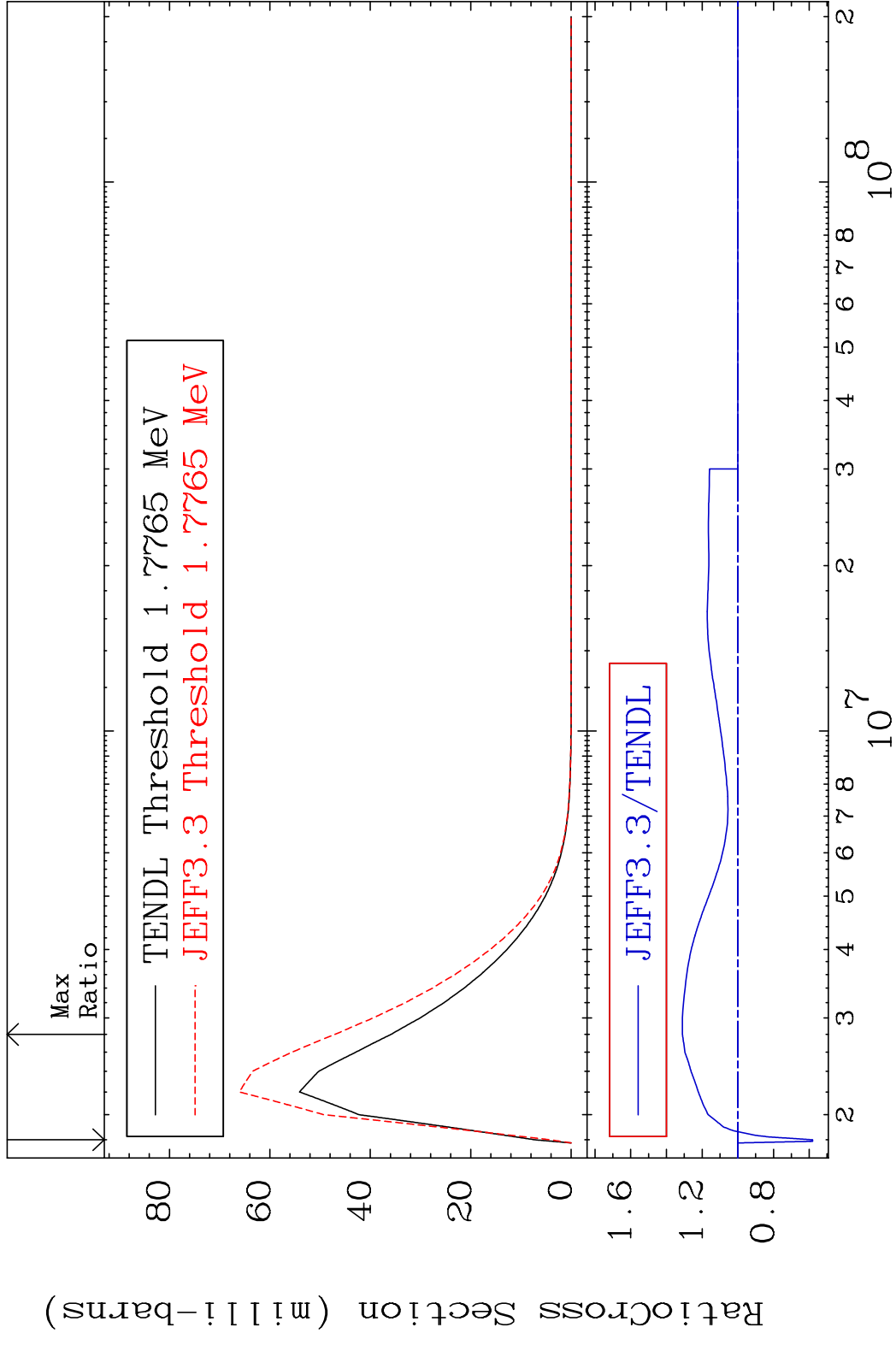
MAT 3919 MT= 67 (n, n') Level 39-Y -87
 Cross Section -5.103 To 64.53 %



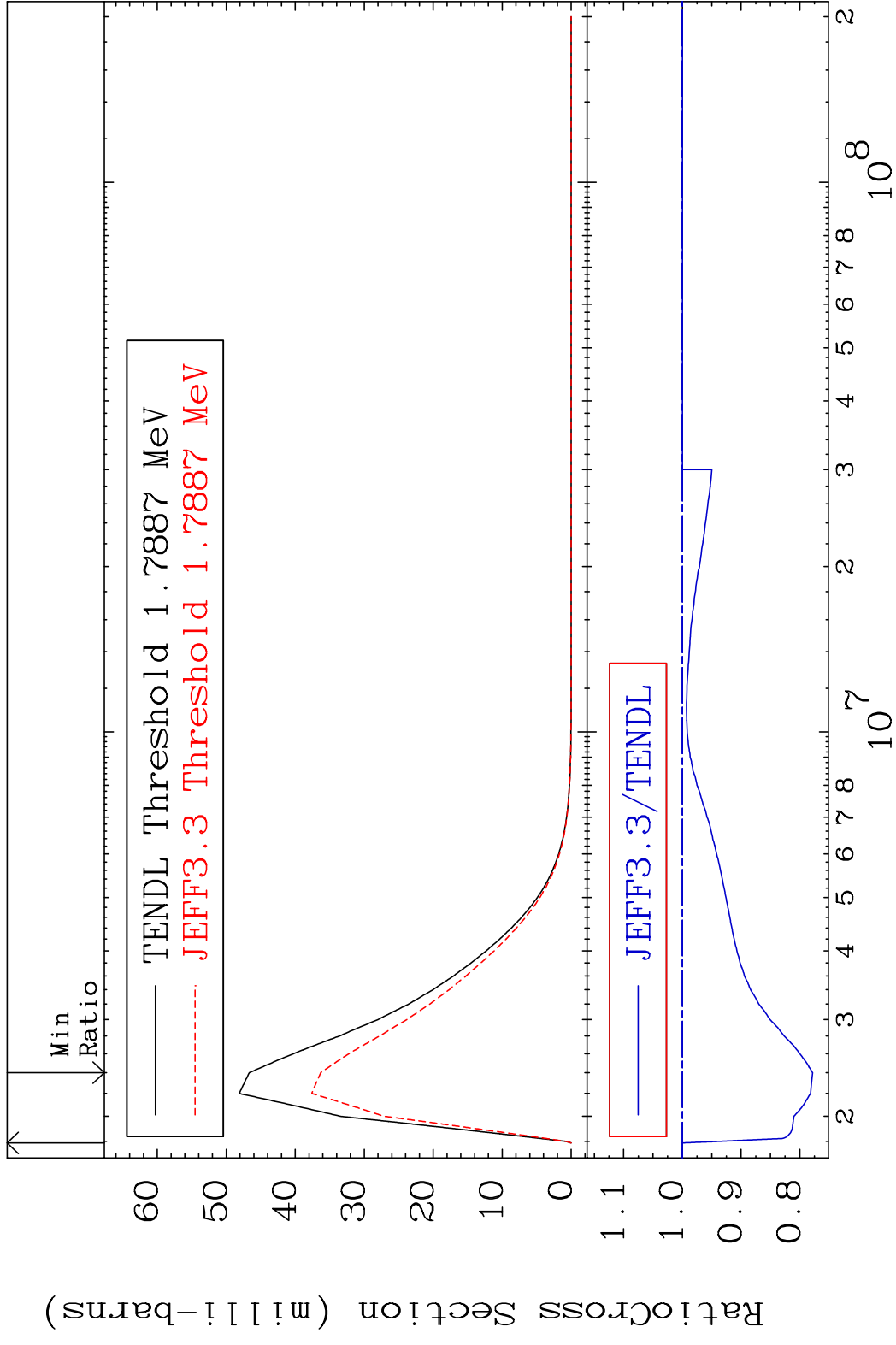
MAT 3919 MT= 68 (n, n') Level 39-Y -87
 Cross Section -6.695 To 33.04 %



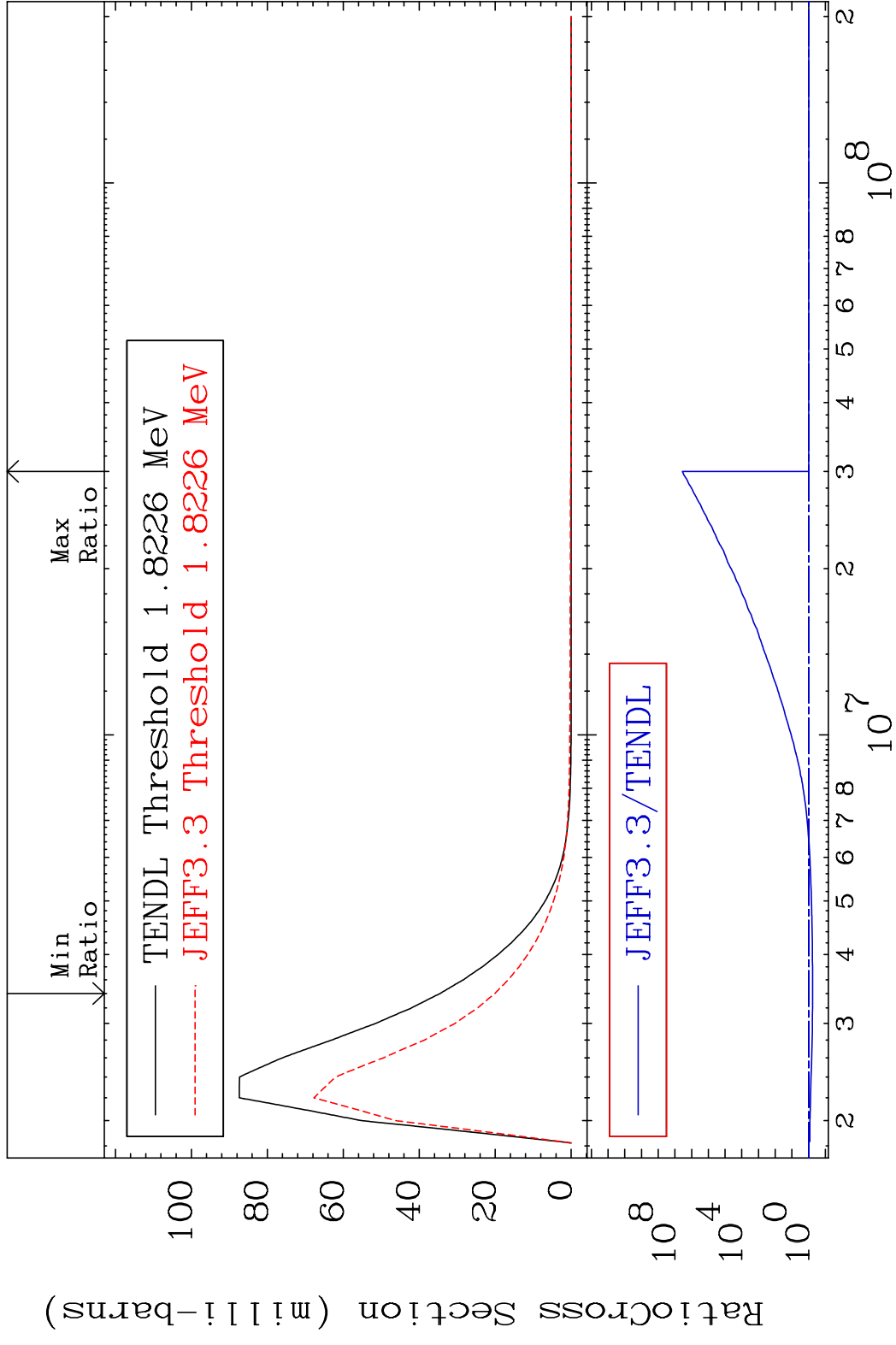
MAT 3919 MT= 69 (n, n') Level 39-Y -87
 Cross Section -41.86 To 31.08 %



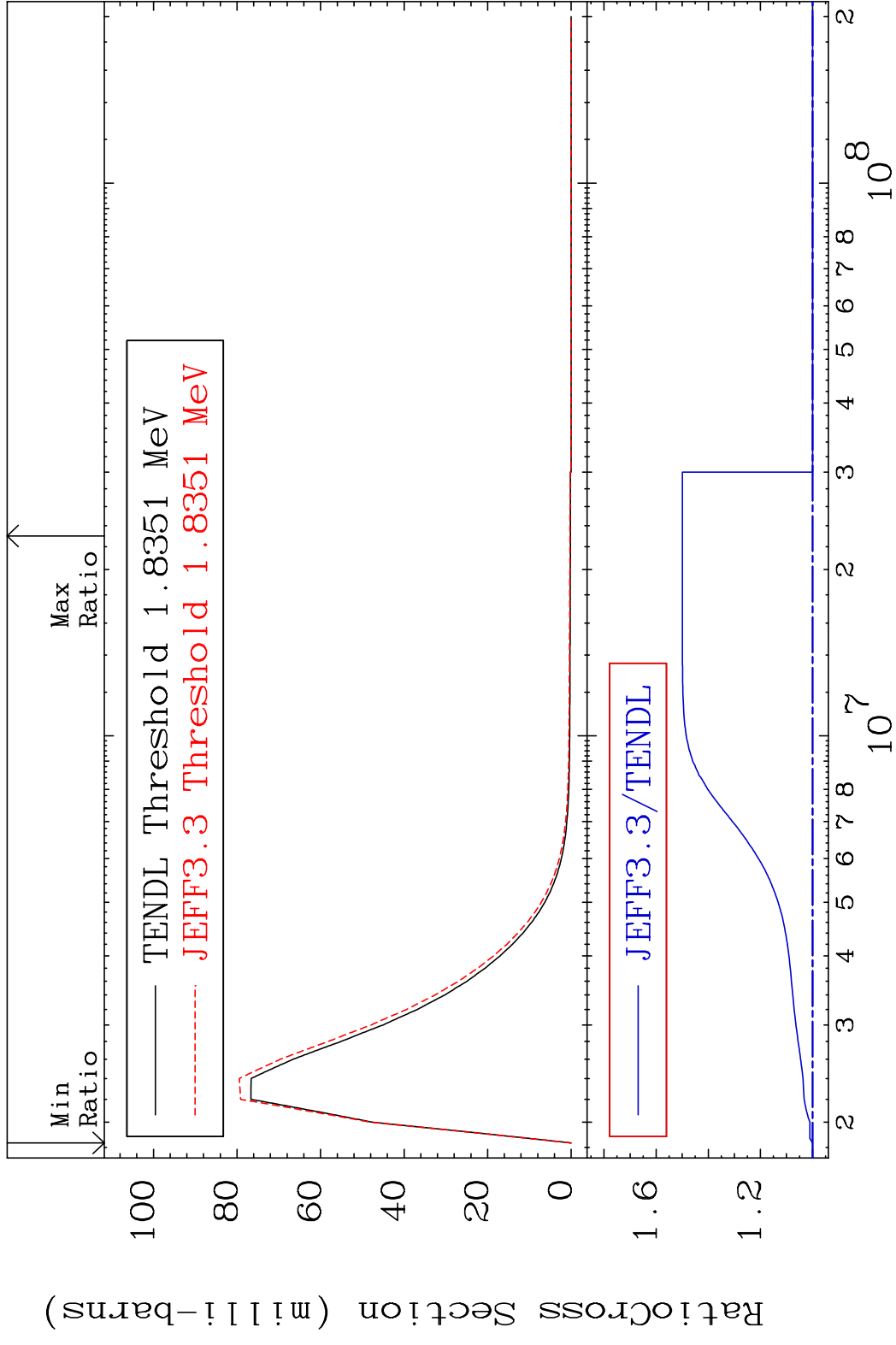
MAT 3919 MT= 70 (n,n') Level 39-Y -87
 Cross Section -22.18 To 0.000 %



MAT 3919 MT= 71 (n, n') Level 39-Y -87
 Cross Section -41.78 To 9999. %

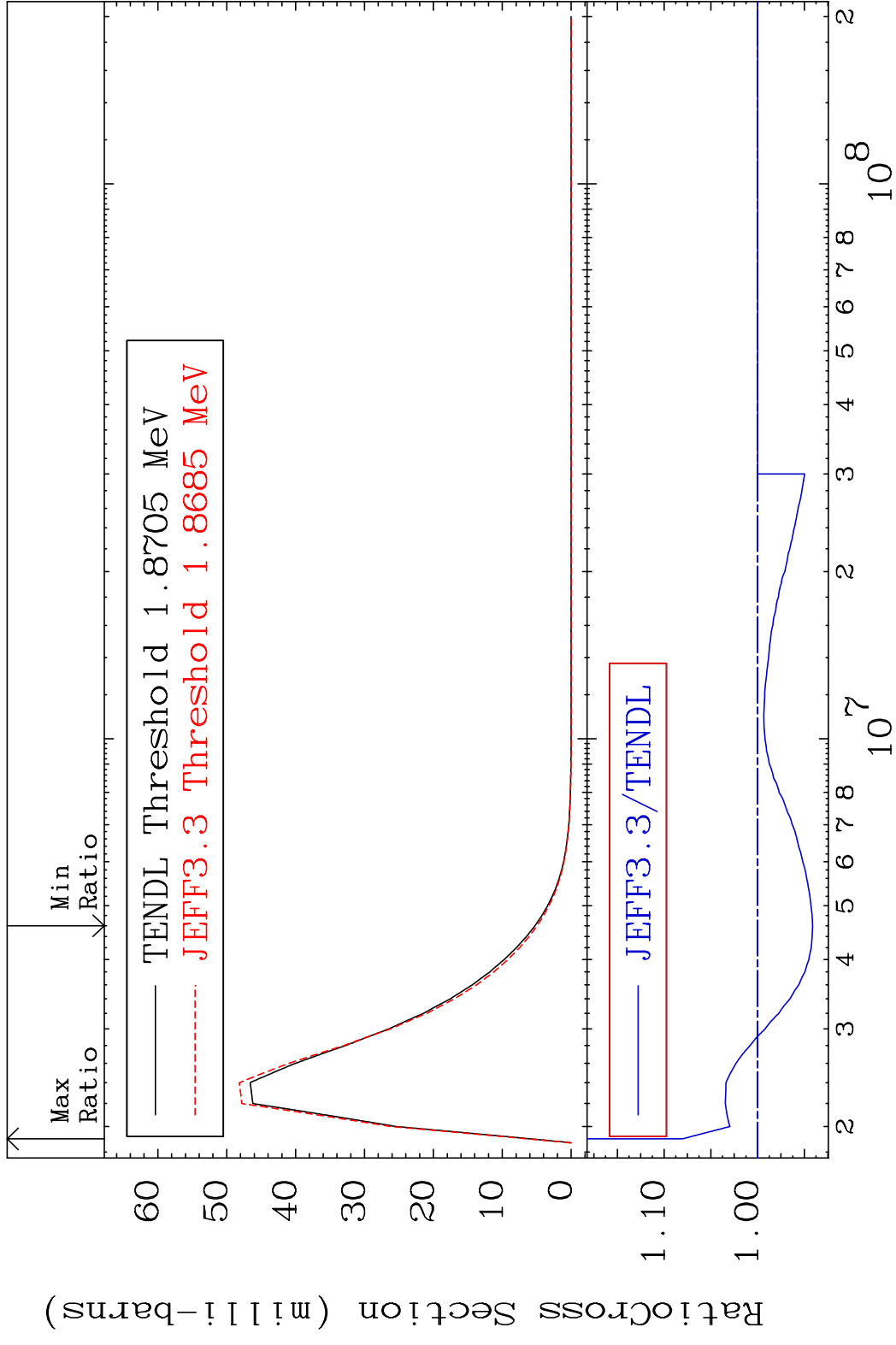


MAT 3919 MT= 72 (n, n') Level 39-Y -87
 Cross Section 0.000 To 49.94 %



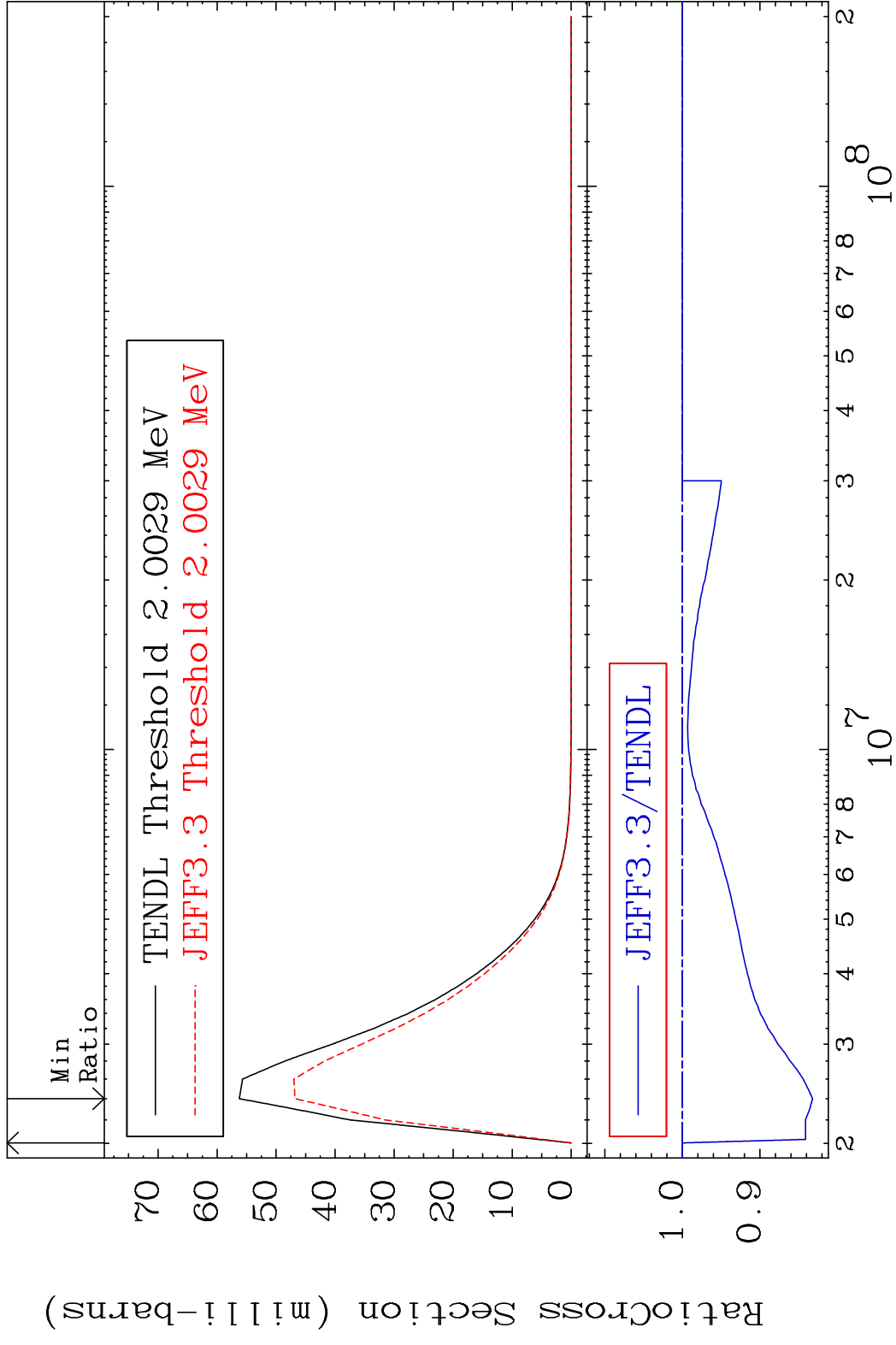
39 Incident Energy (eV) 39-Y -87

MAT 3919 MT= 73 (n, n') Level 39-Y -87
 Cross Section -5.873 To 8.045 %

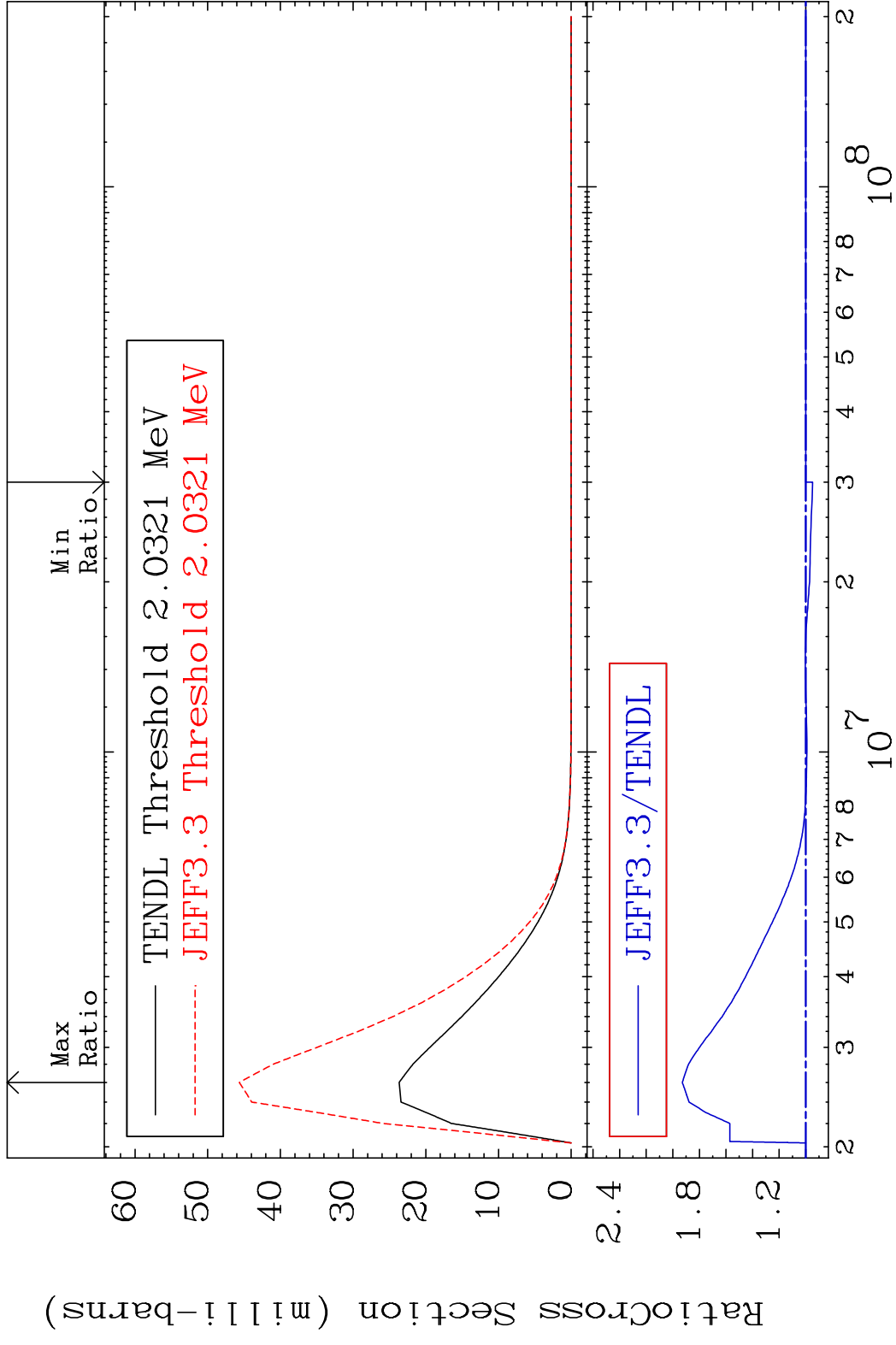


40 Incident Energy (eV) 39-Y -87

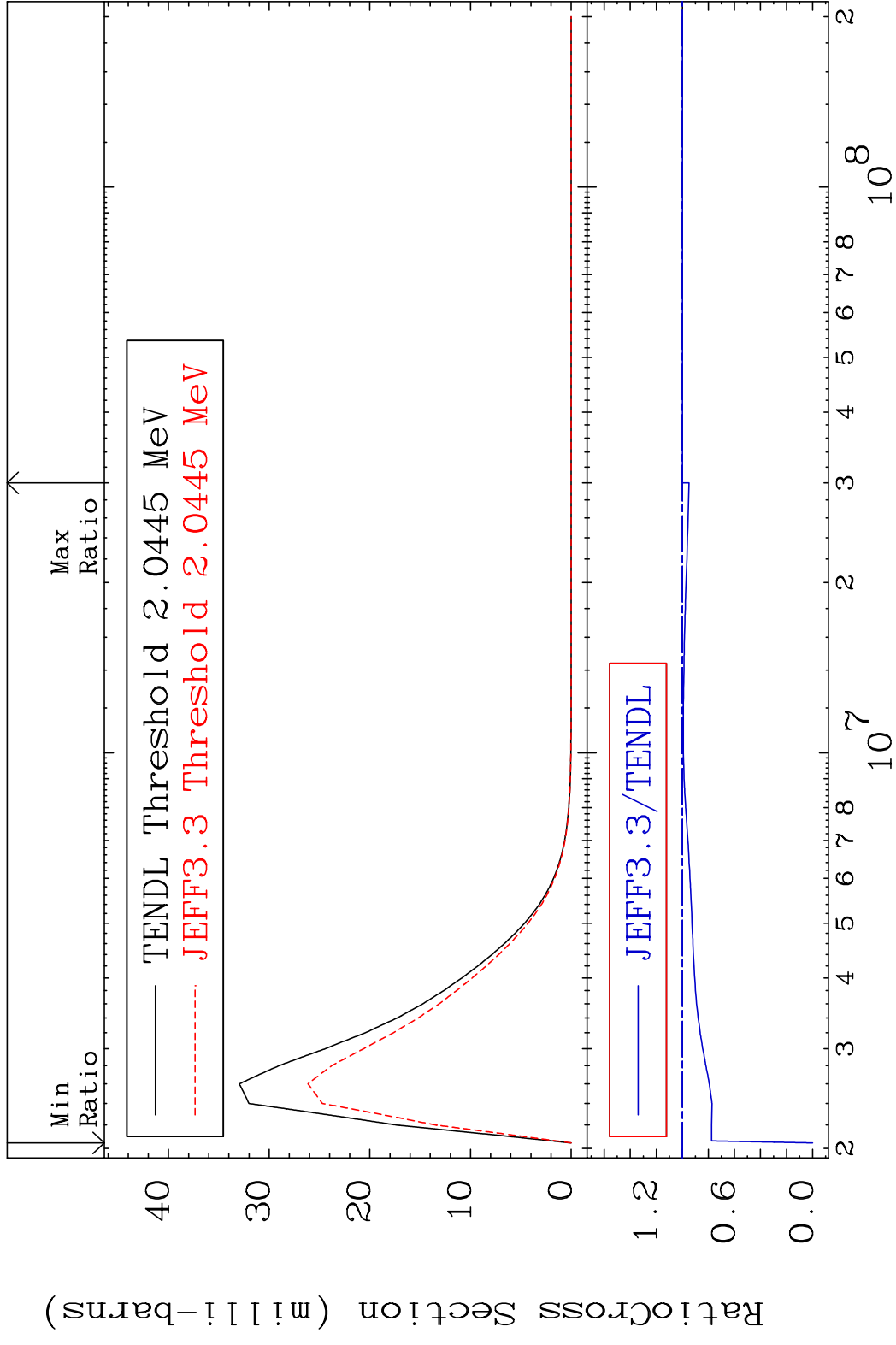
MAT 3919 MT= 74 (n,n') Level 39-Y -87
 Cross Section -16.79 To 0.000 %



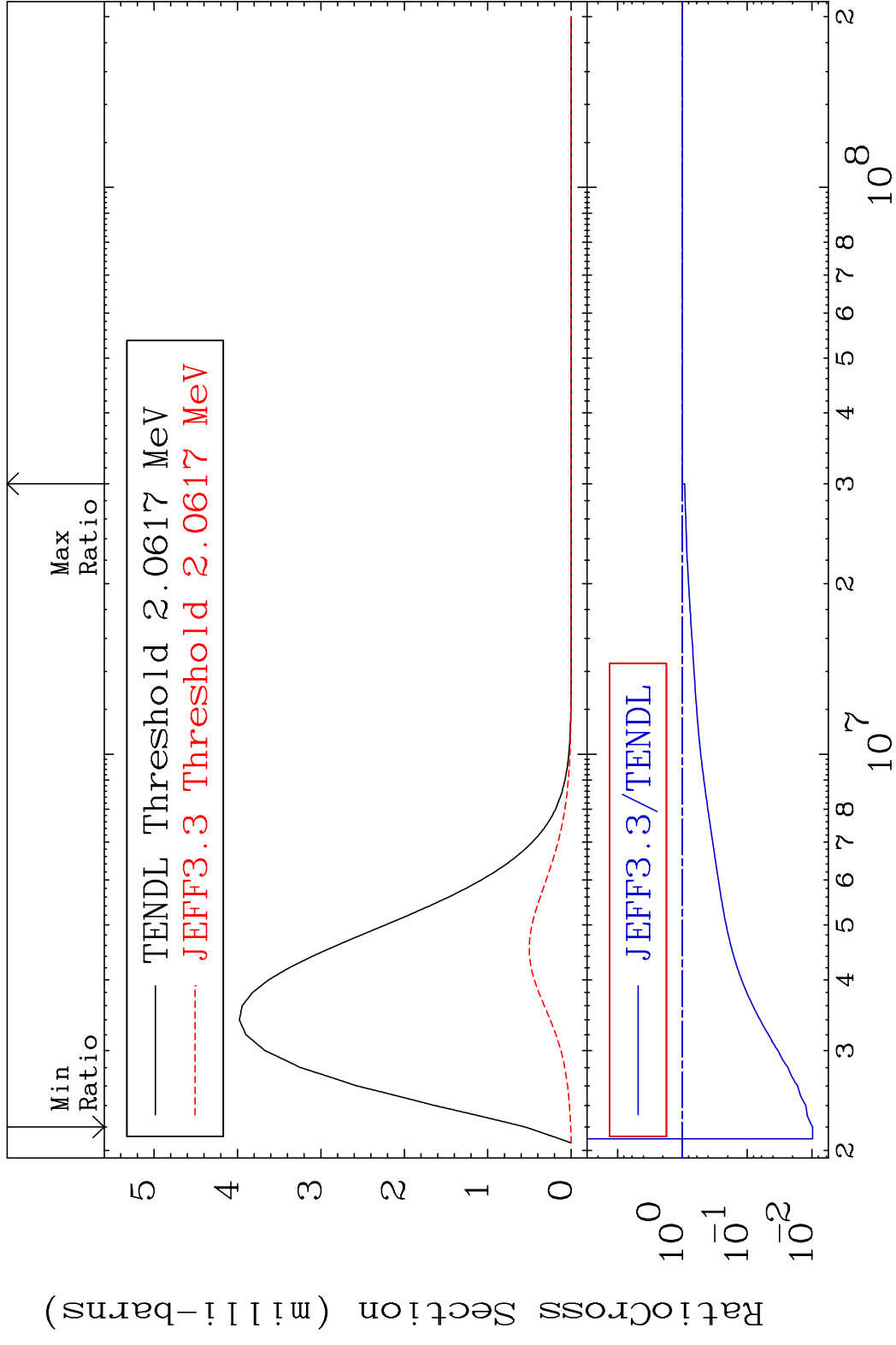
MAT 3919 MT= 75 (n, n') Level 39-Y -87
 Cross Section -5.143 To 92.82 %



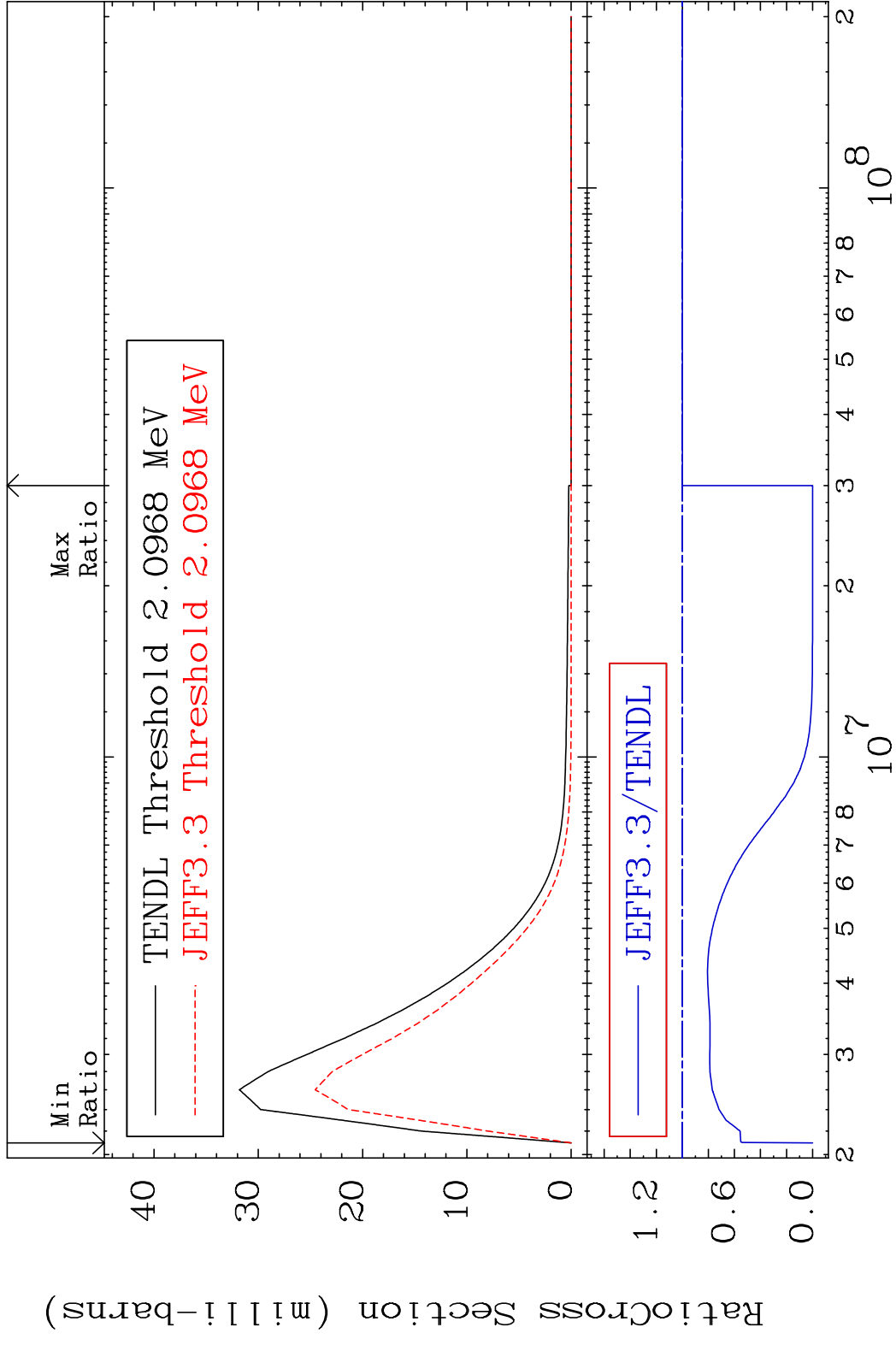
MAT 3919 MT= 76 (n, n') Level 39-Y -87
 Cross Section -100.0 To 0.000 %



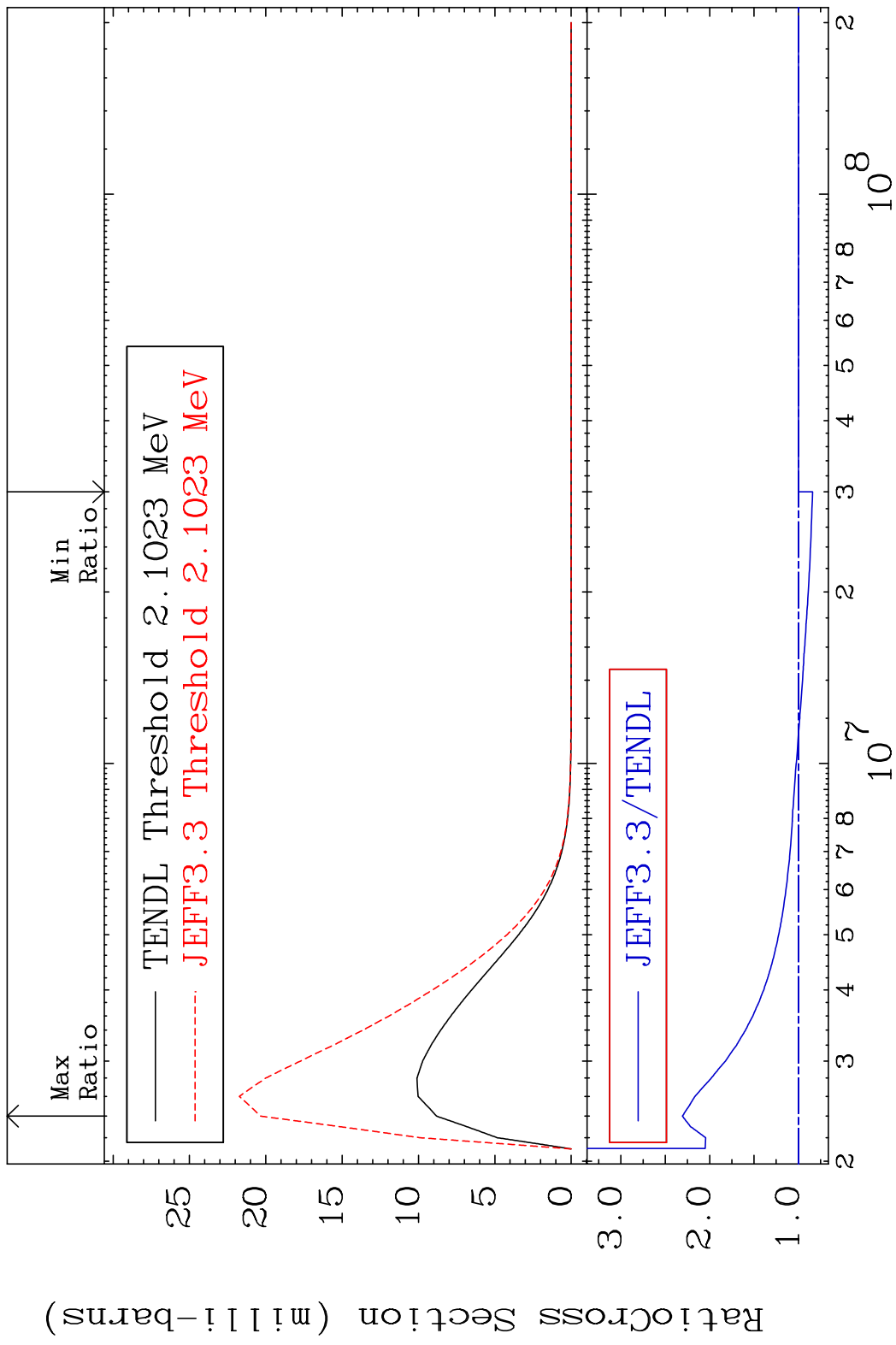
MAT 3919 MT= 77 (n, n') Level 39-Y -87
 Cross Section -99.02 To 0.000 %



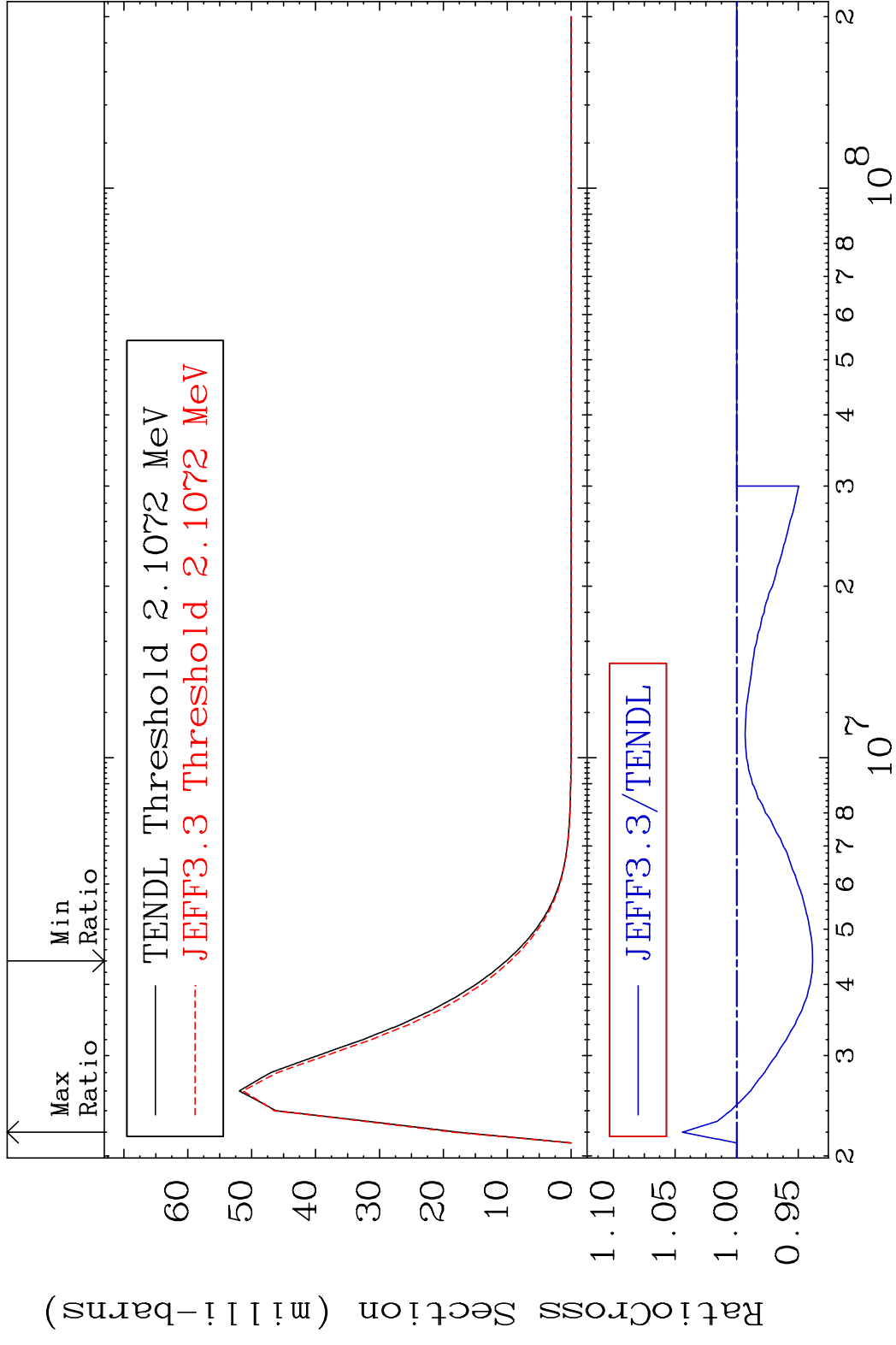
MAT 3919 MT= 78 (n, n') Level 39-Y -87
 Cross Section -100.0 To 0.000 %



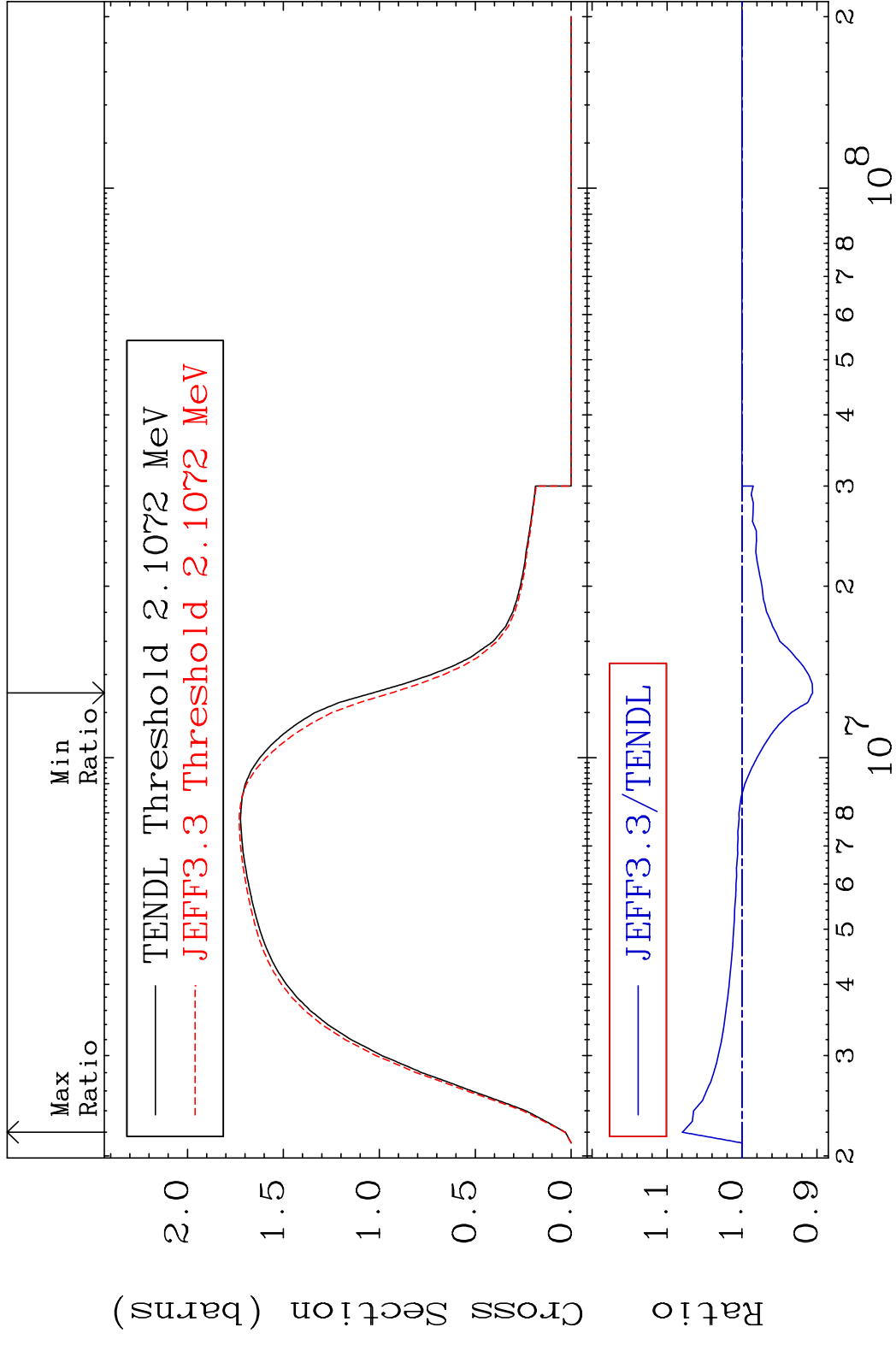
MAT 3919 MT= 79 (n, n') Level 39-Y -87
 Cross Section -15.93 To 130.8 %



MAT 3919 MT= 80 (n, n') Level 39-Y -87
 Cross Section -6.157 To 4.409 %



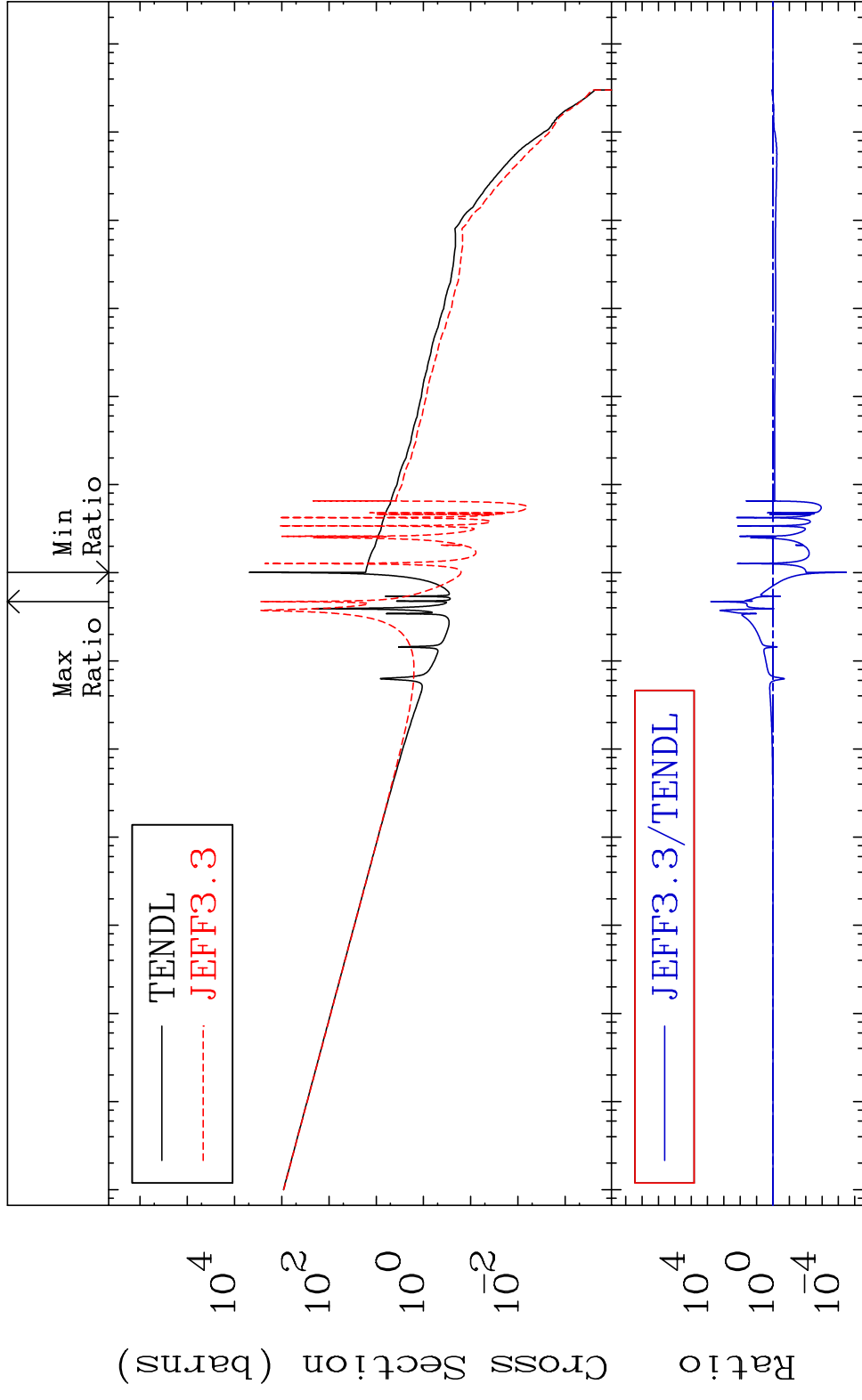
MAT 3919 (n, n') Continuum 39-Y -87
Cross Section -9.417 To 7.953 %



MAT 3919

39-Y -87

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



Cross Section (barns)

Ratio

49

Incident Energy (eV)

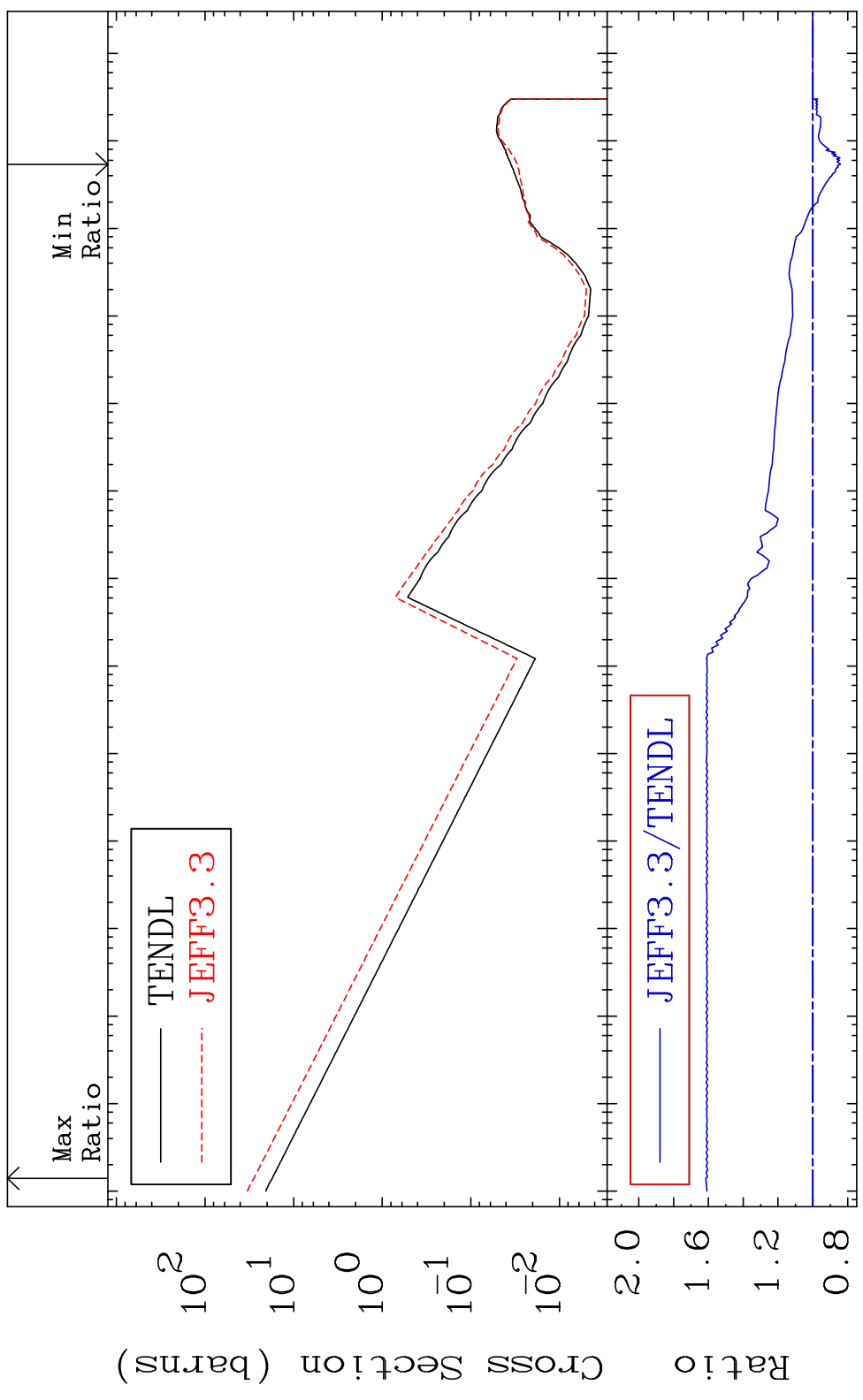
39-Y -87

MAT 3919

(n, p)

39-Y -87

Cross Section -15.81 To 61.55 %

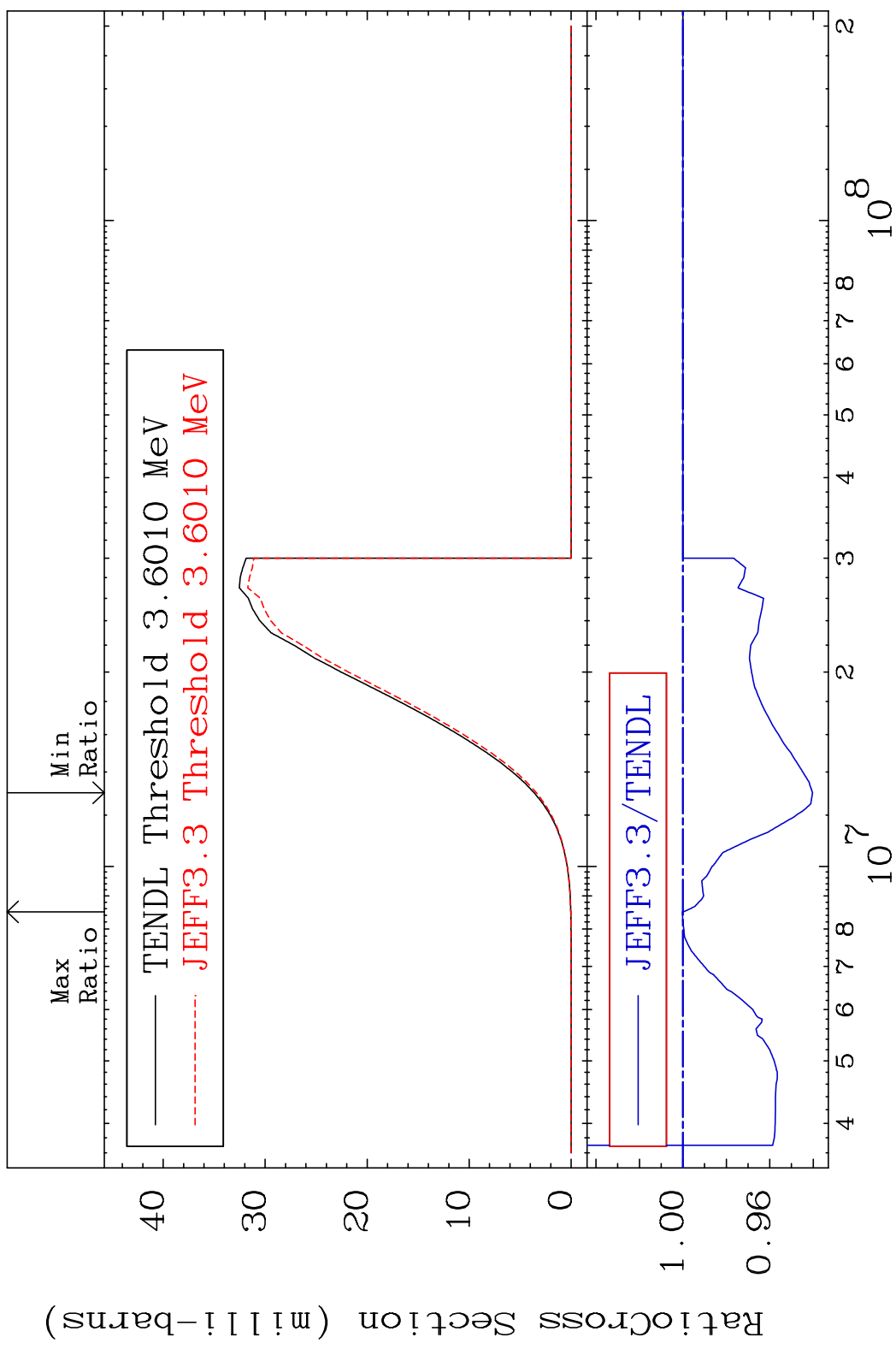


50

Incident Energy (eV)

39-Y -87

Cross Section -5.971 To 0.023 %

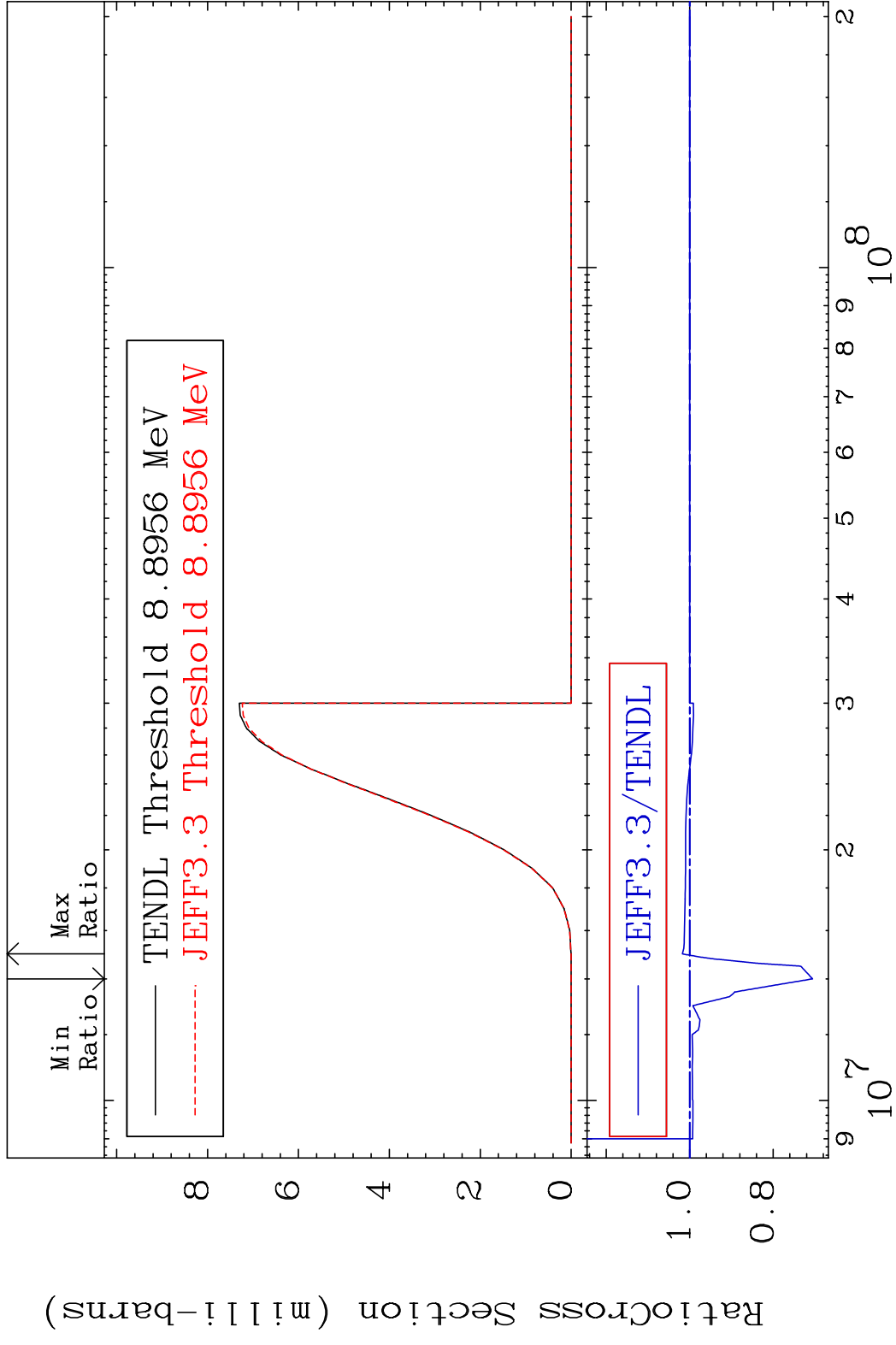


MAT 3919

(n, t)

39-Y -87

Cross Section -29.43 To 1.760 %



52

Incident Energy (eV)

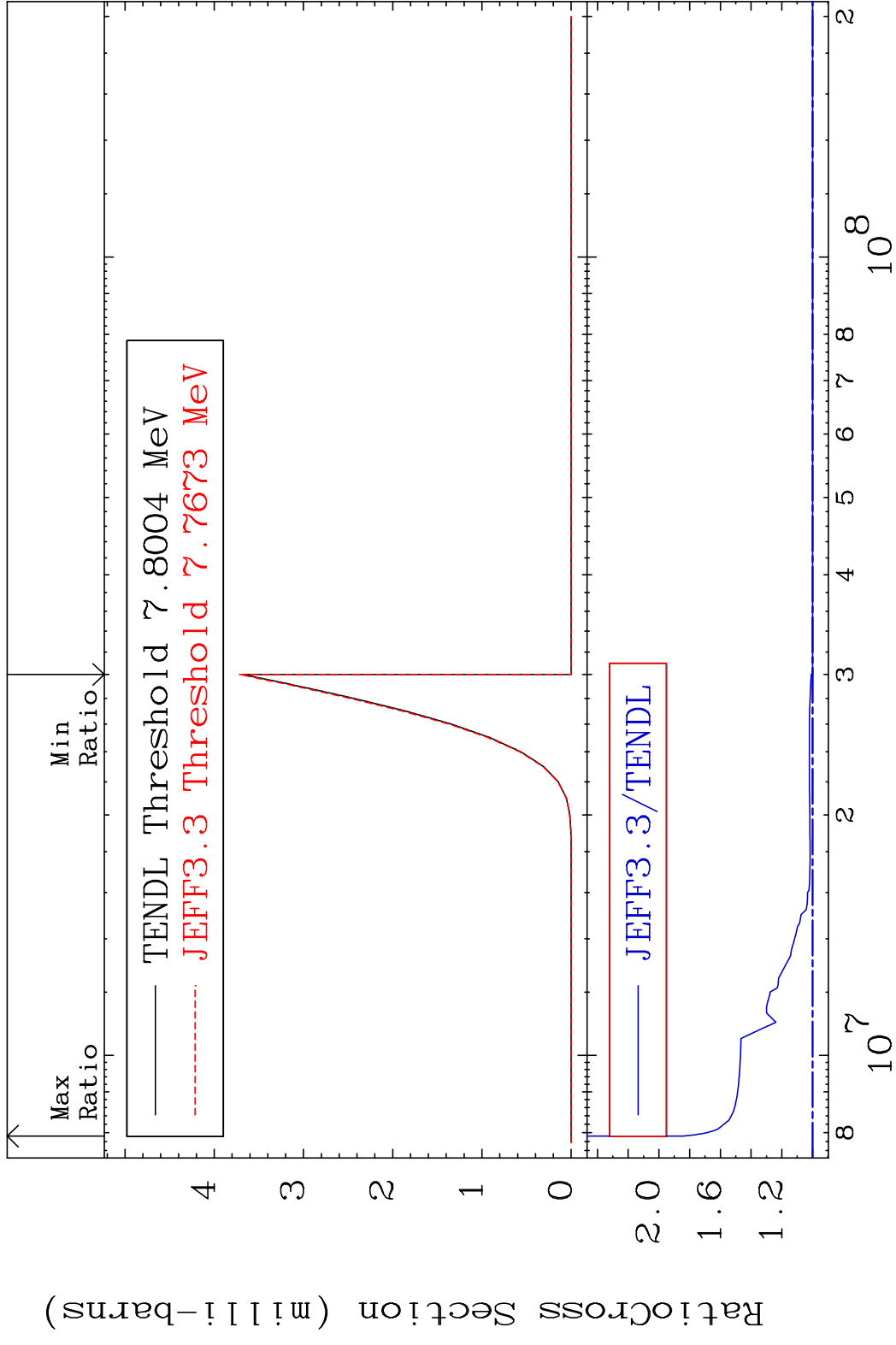
39-Y -87

MAT 3919

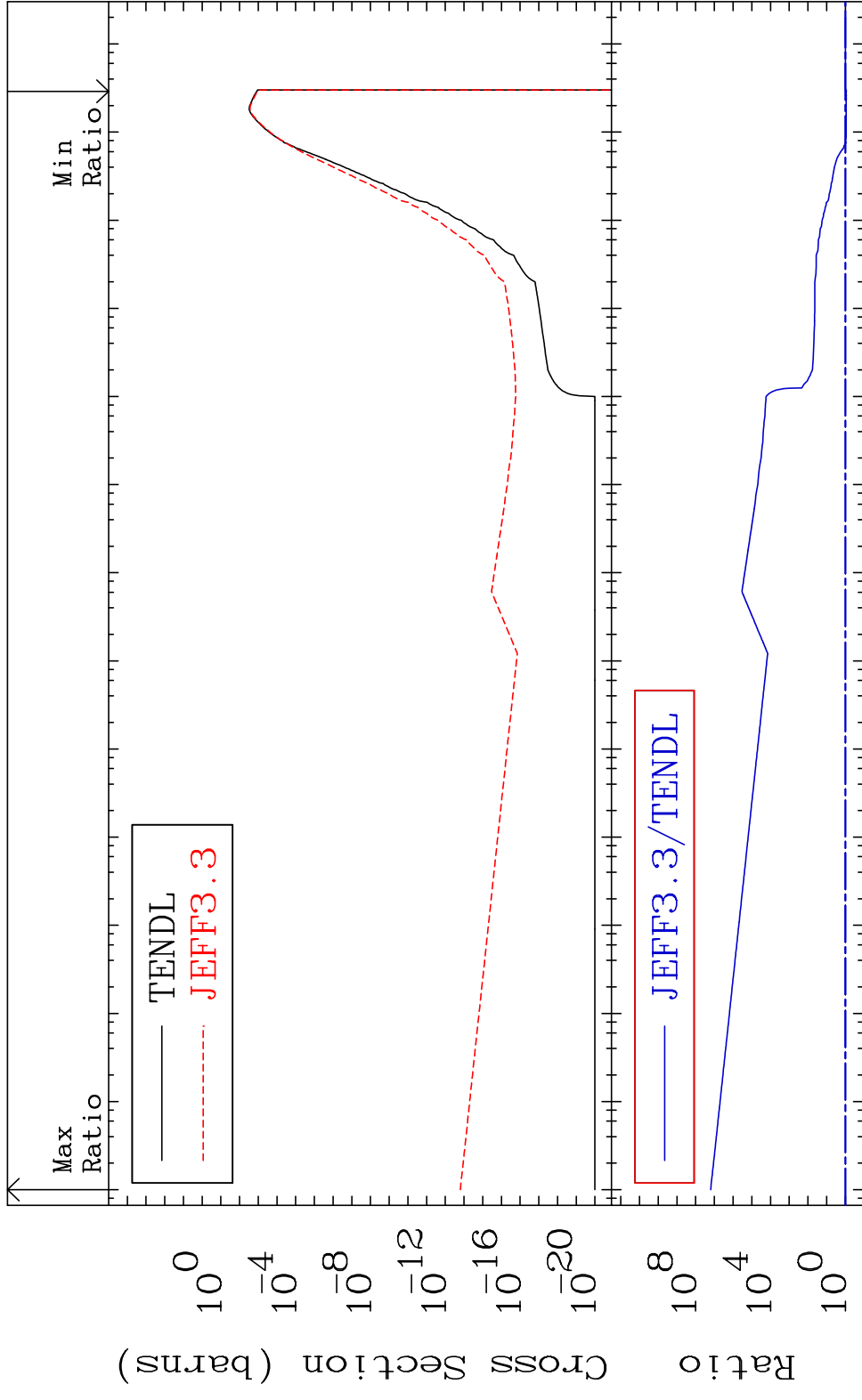
(n, He-3)

39-Y -87

Cross Section 0.000 To 84.75 %



MAT 3919 (n, α) 39-Y -87
 Cross Section -10.65 To 9999. %

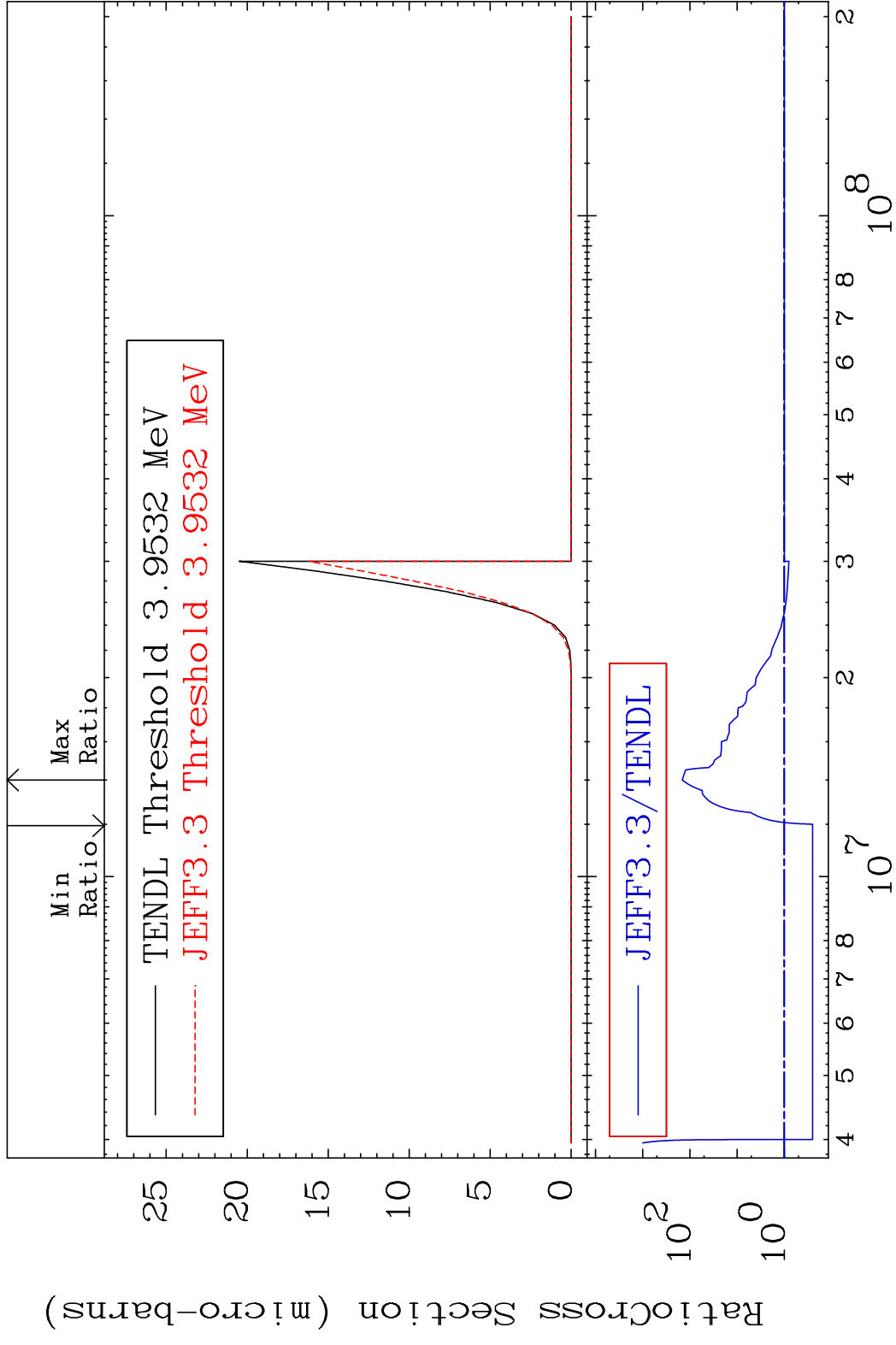


MAT 3919

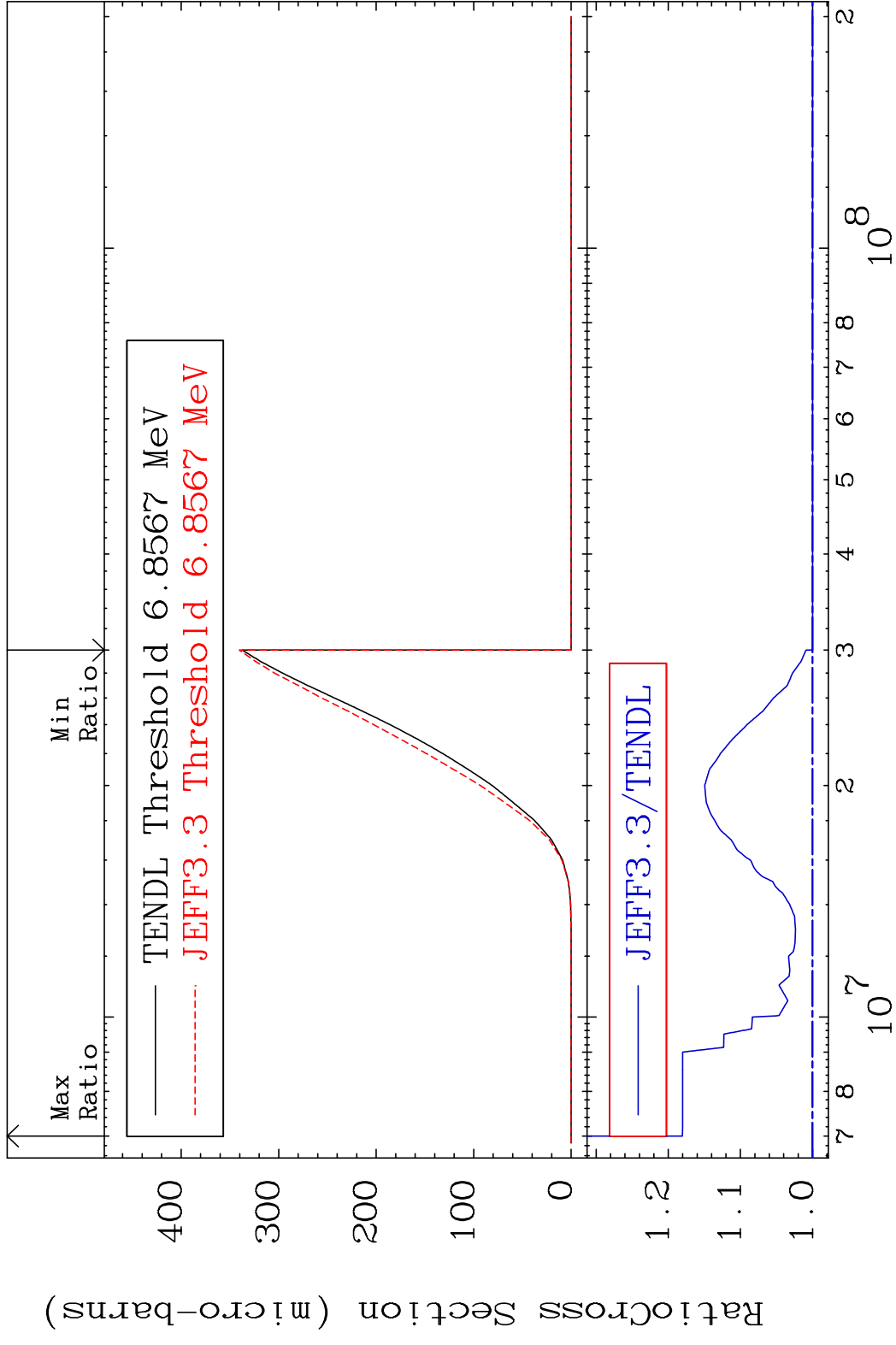
(n,2α)

39-Y -87

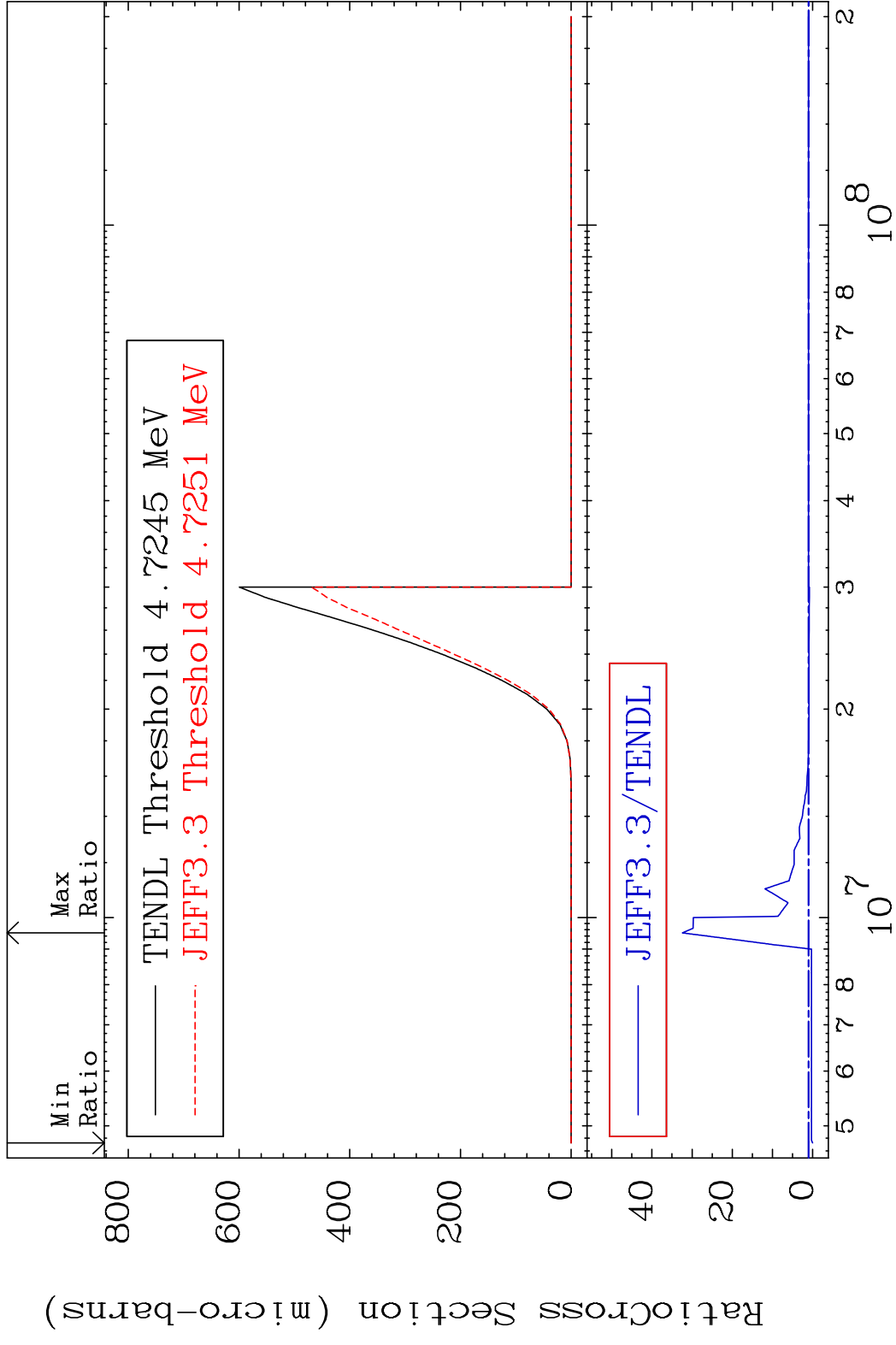
Cross Section -74.92 To 9999. %



MAT 3919 (n,2p) 39-Y -87
 Cross Section 0.000 To 18.05 %



MAT 3919 (n,p) α 39-Y -87
 Cross Section -100.0 To 3142. %

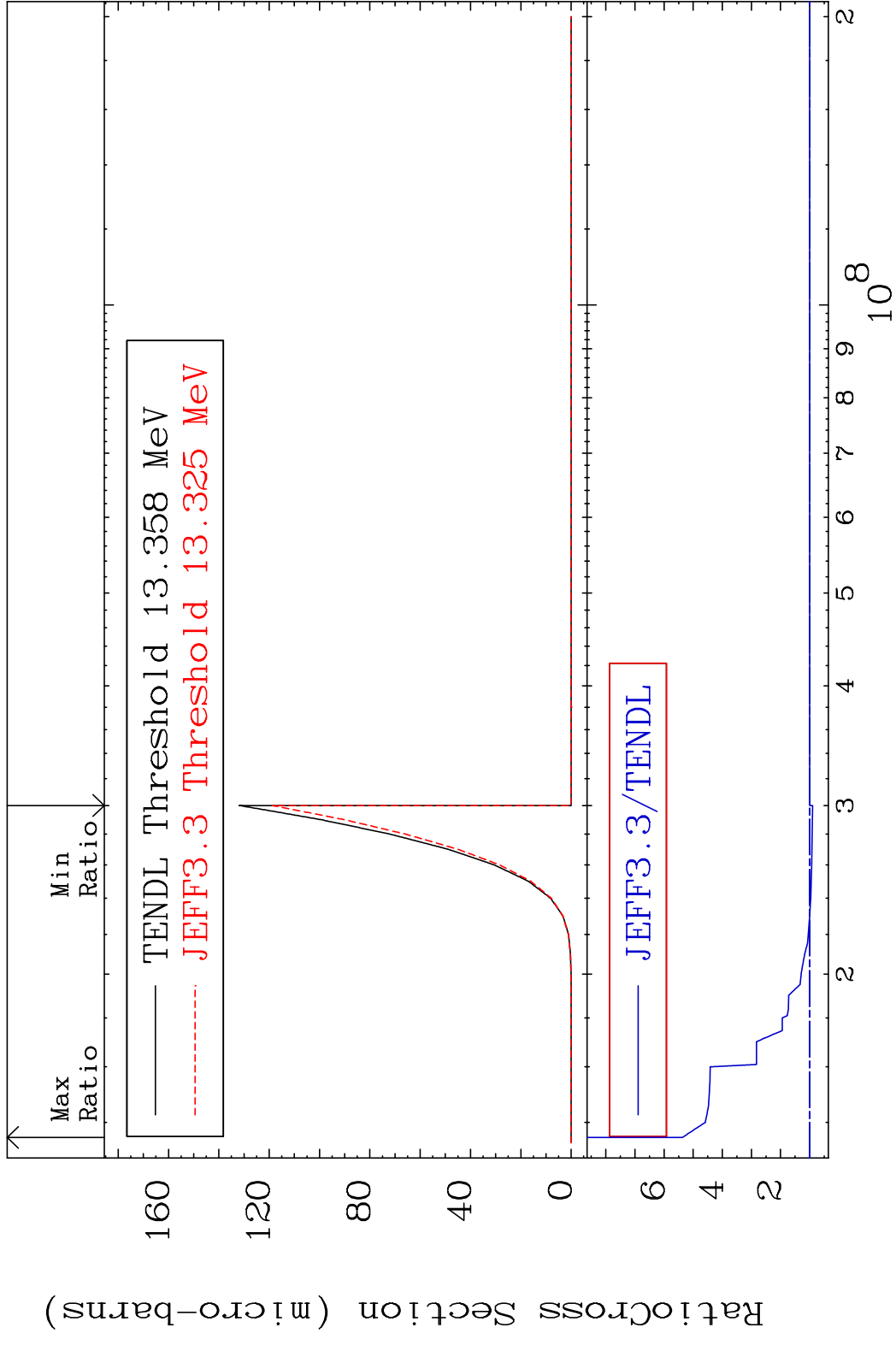


MAT 3919

(n,p) d

39-Y -87

Cross Section -9.8665 To 437.2 %



58

Incident Energy (eV)

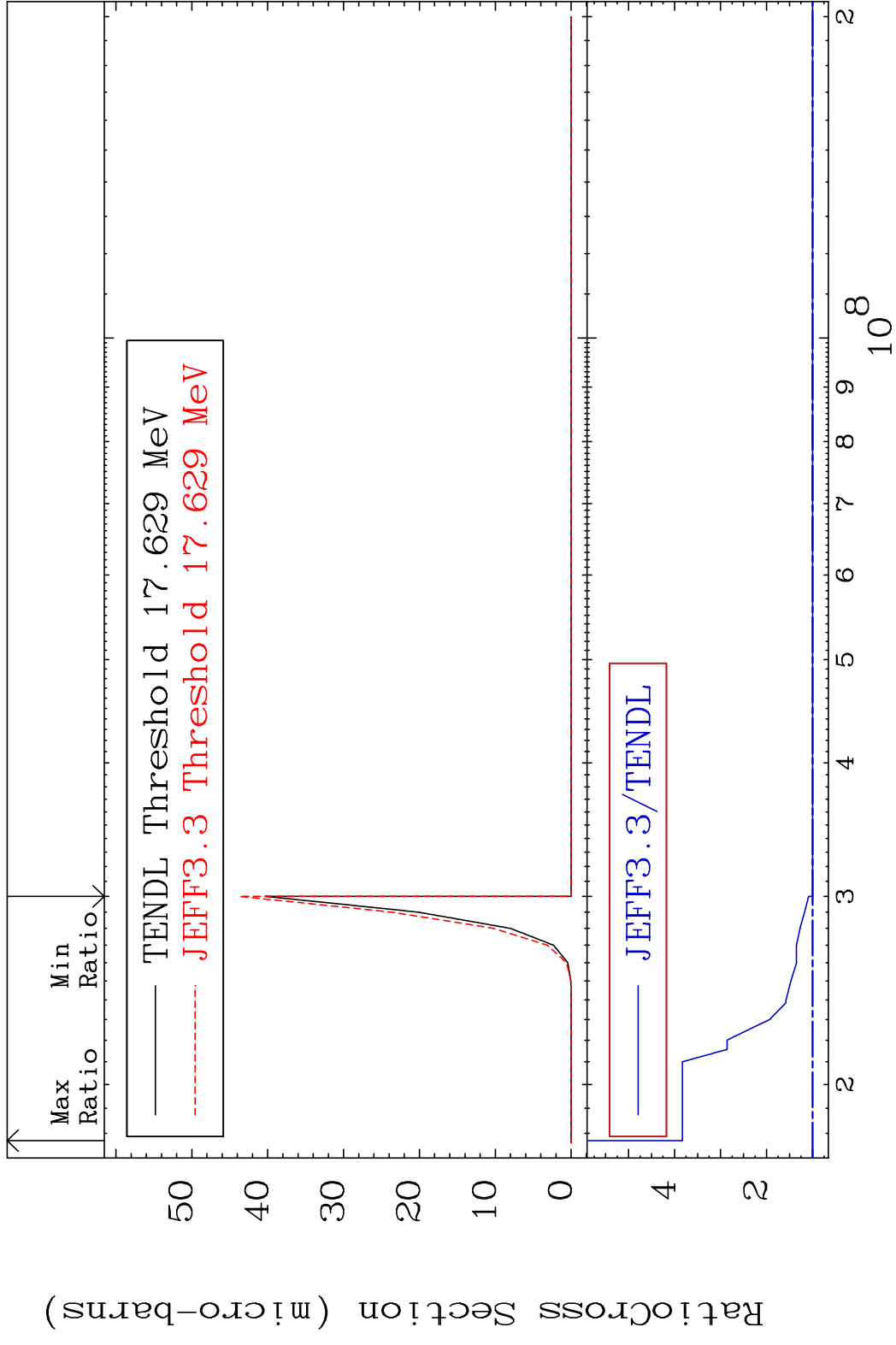
39-Y -87

MAT 3919

(n,p) t

39-Y -87

Cross Section 0.000 To 283.1 %



59

Incident Energy (eV)

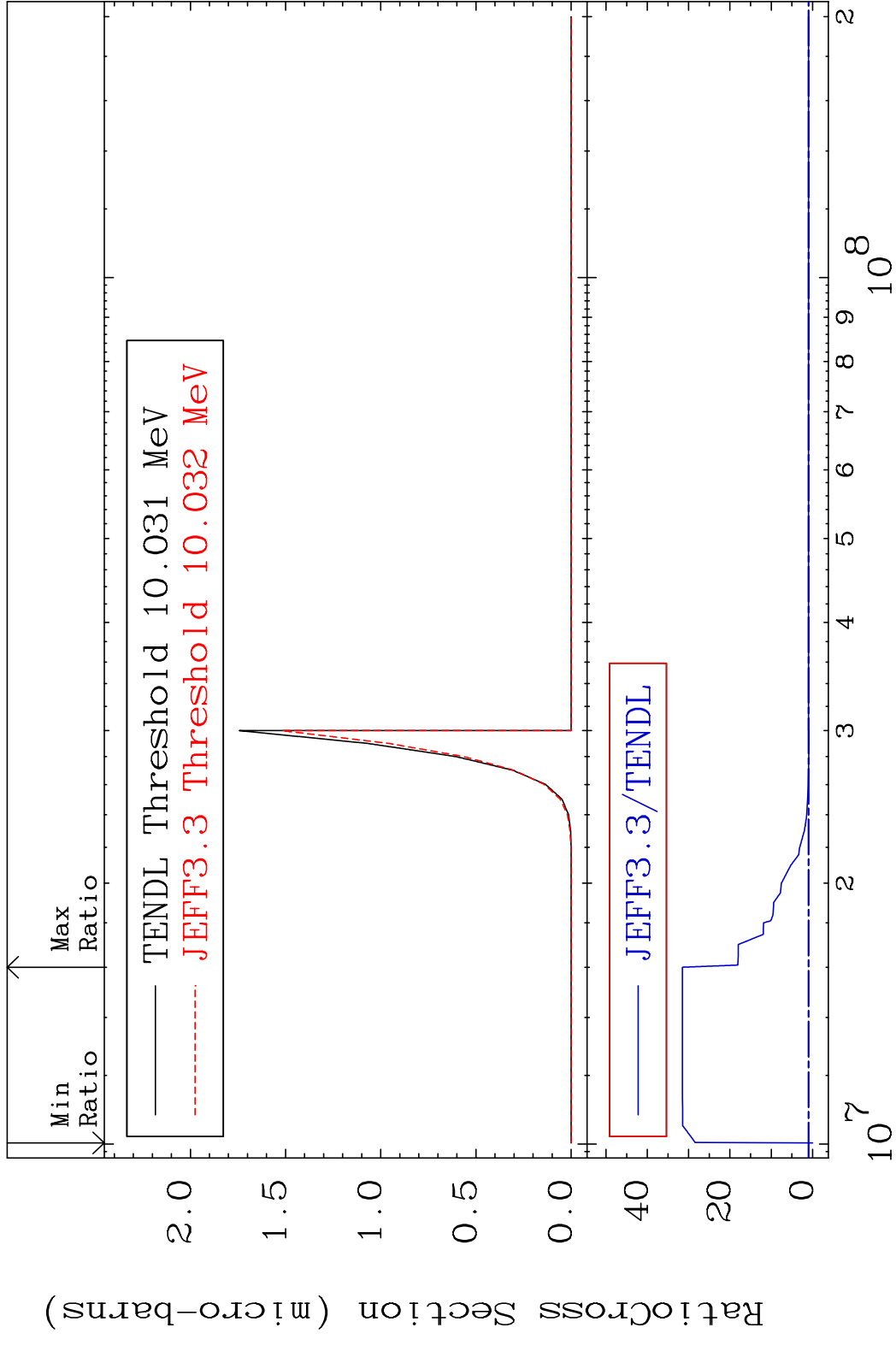
39-Y -87

MAT 3919

(n,d) α

39-Y -87

Cross Section -100.0 To 3052. %



60

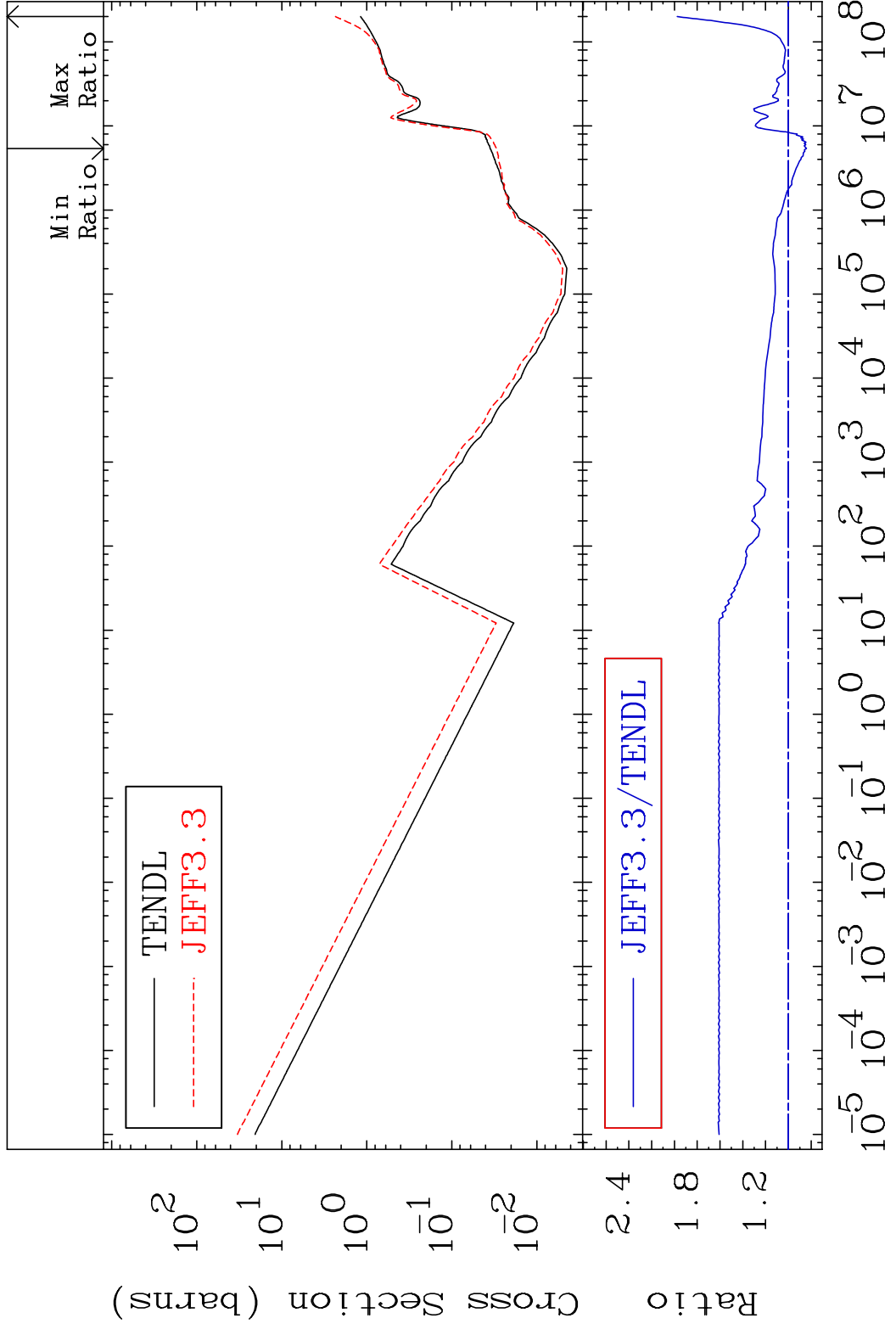
Incident Energy (eV)

39-Y -87

MAT 3919

Hydrogen Production
Cross Section -15.81 To 97.57 %

39-Y -87



61

Incident Energy (eV)

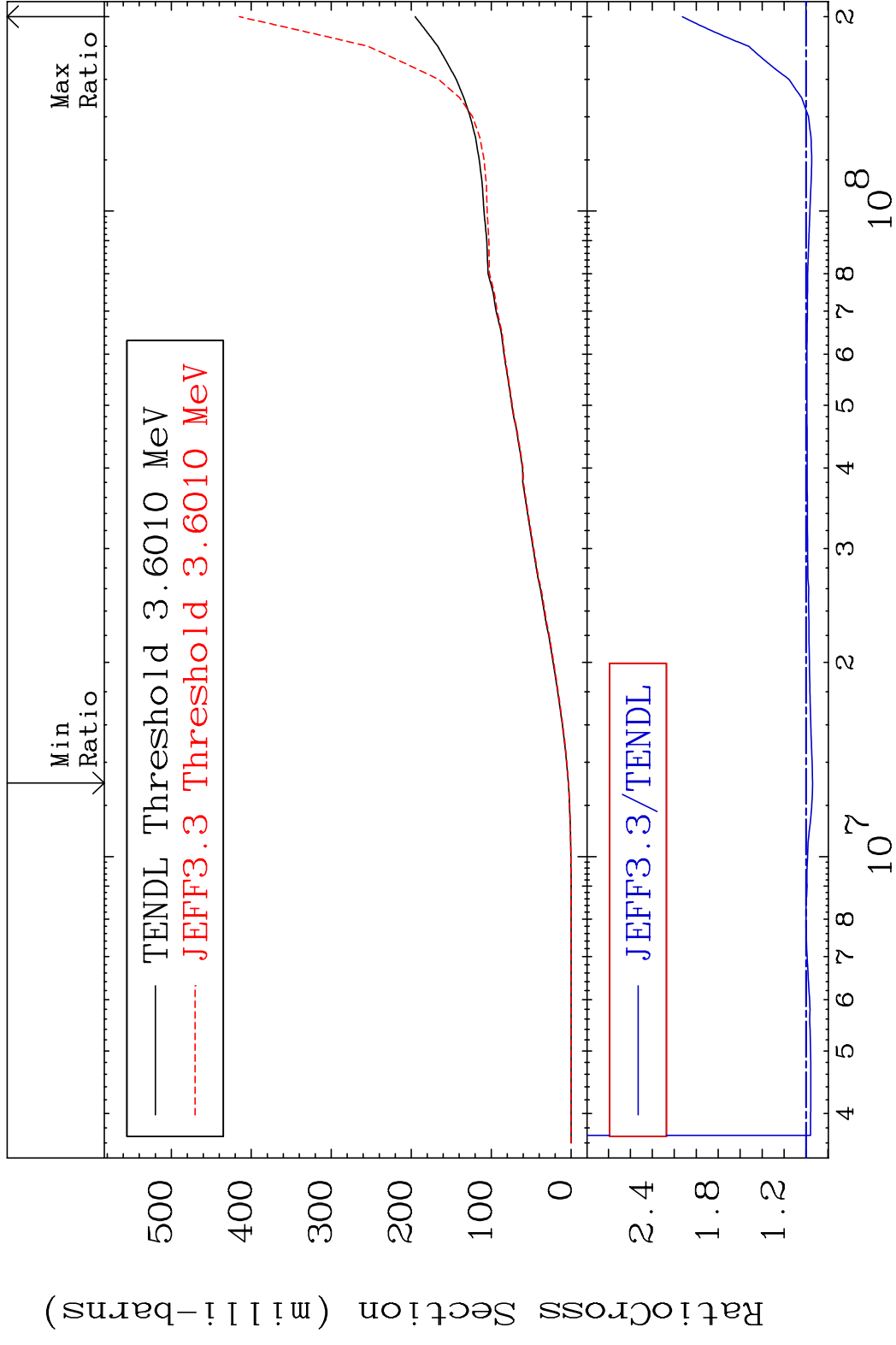
39-Y -87

MAT 3919

Deuterium Production

39-Y -87

Cross Section -5.971 To 112.7 %

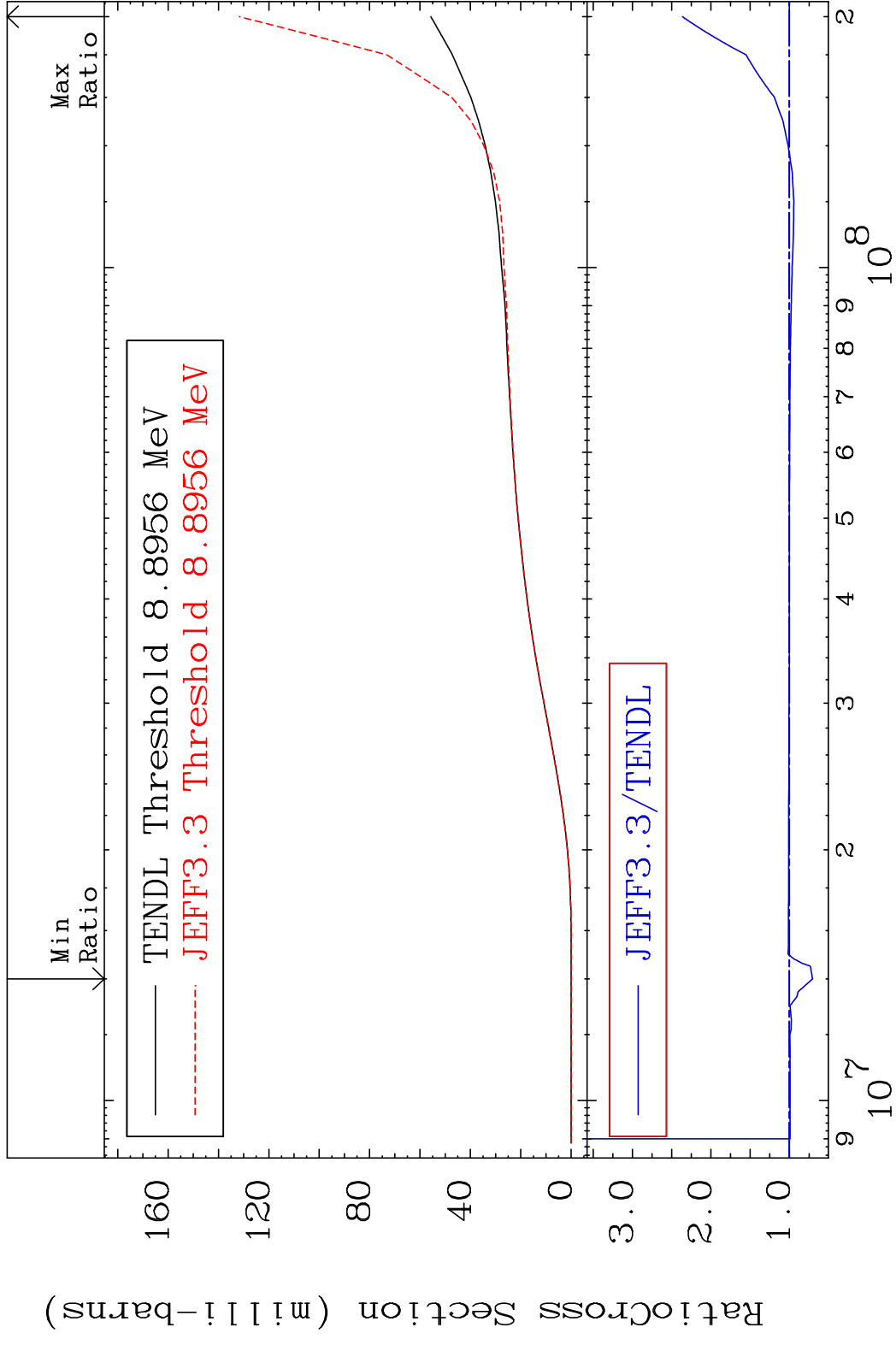


MAT 3919

Tritium Production

39-Y -87

Cross Section -29.43 To 136.4 %



63

Incident Energy (eV)

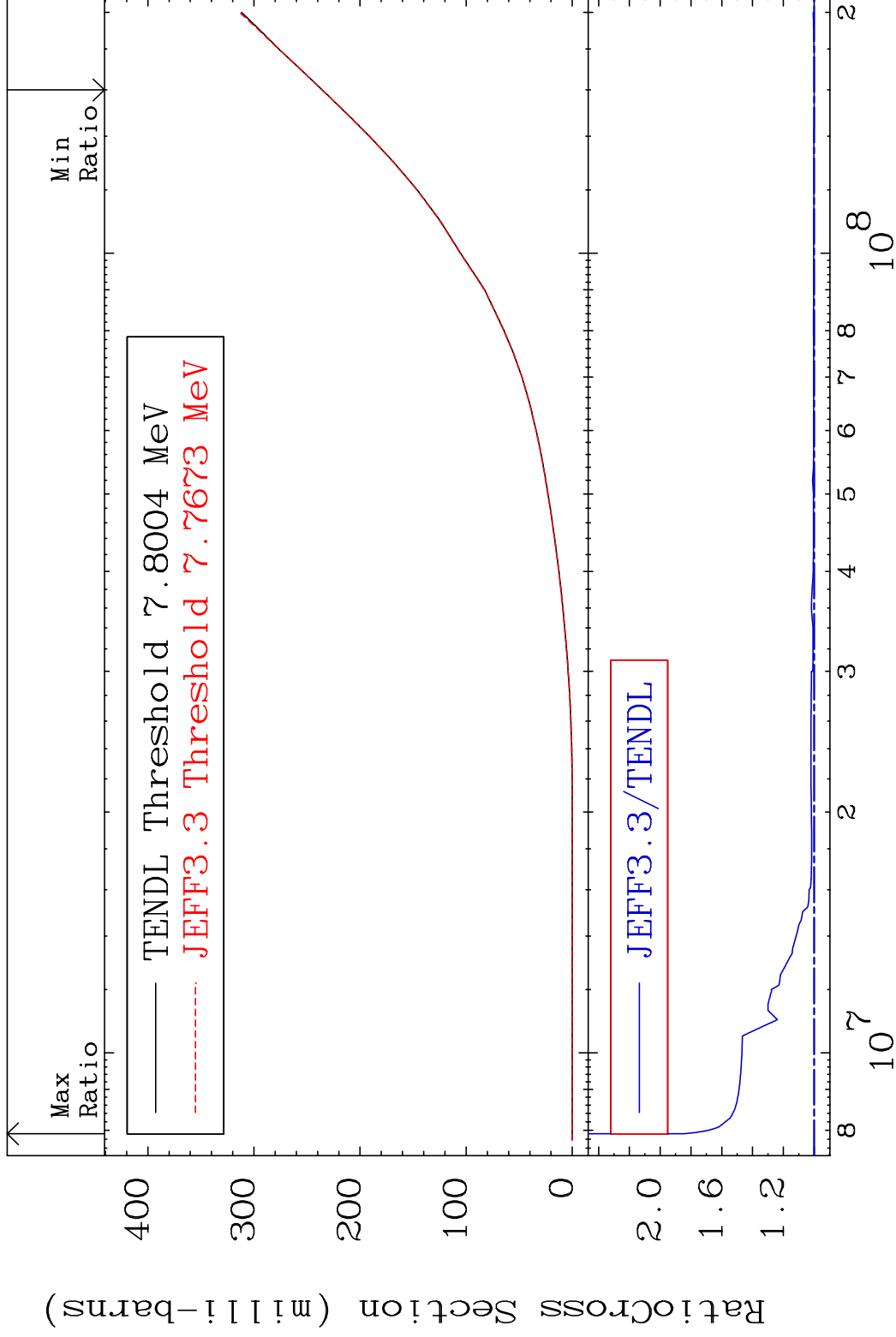
39-Y -87

MAT 3919

He-3 Production

39-Y -87

Cross Section 0.017 To 84.75 %



64

Incident Energy (eV)

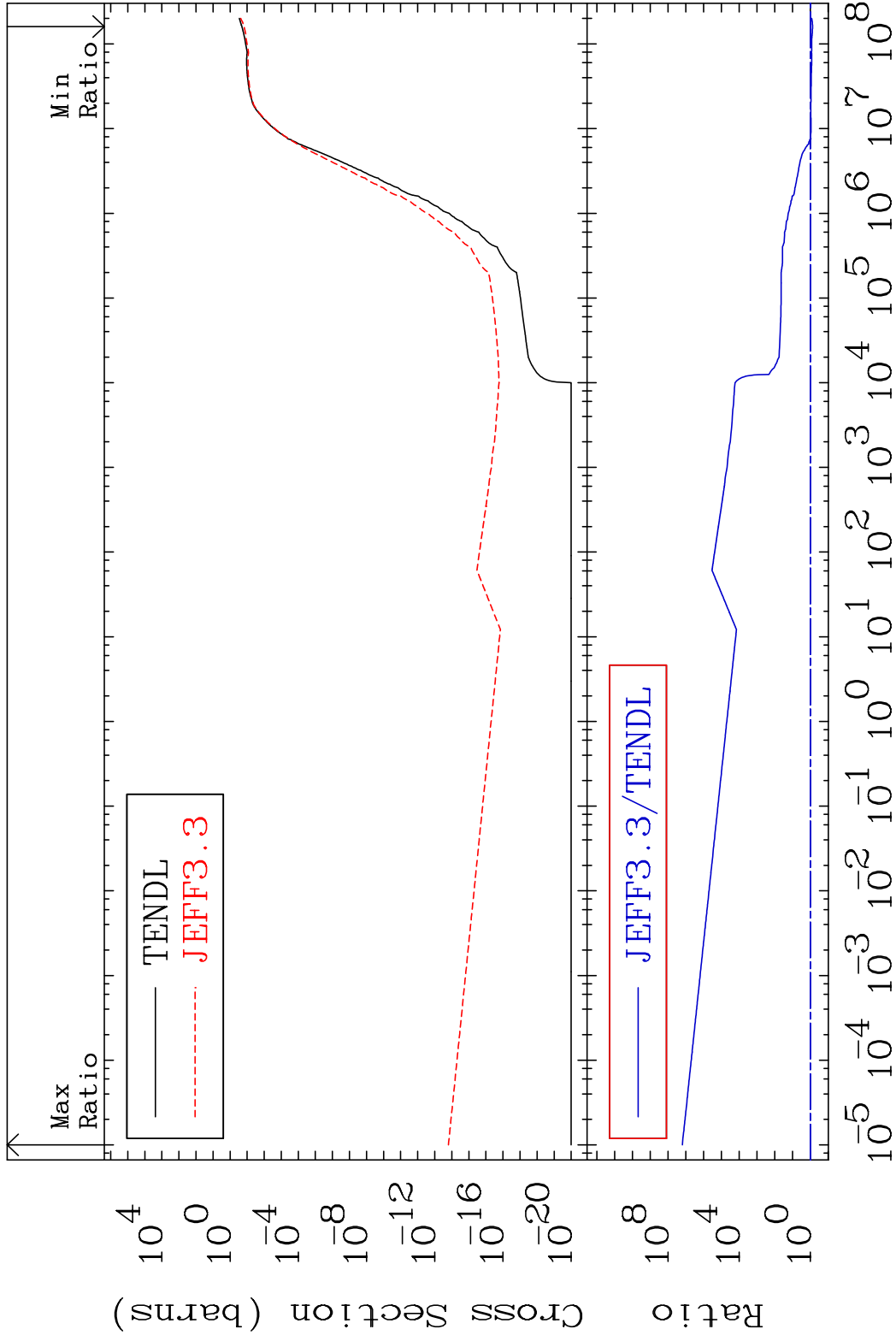
39-Y -87

MAT 3919

He-4 Production

39-Y -87

Cross Section -25.62 To 9999. %

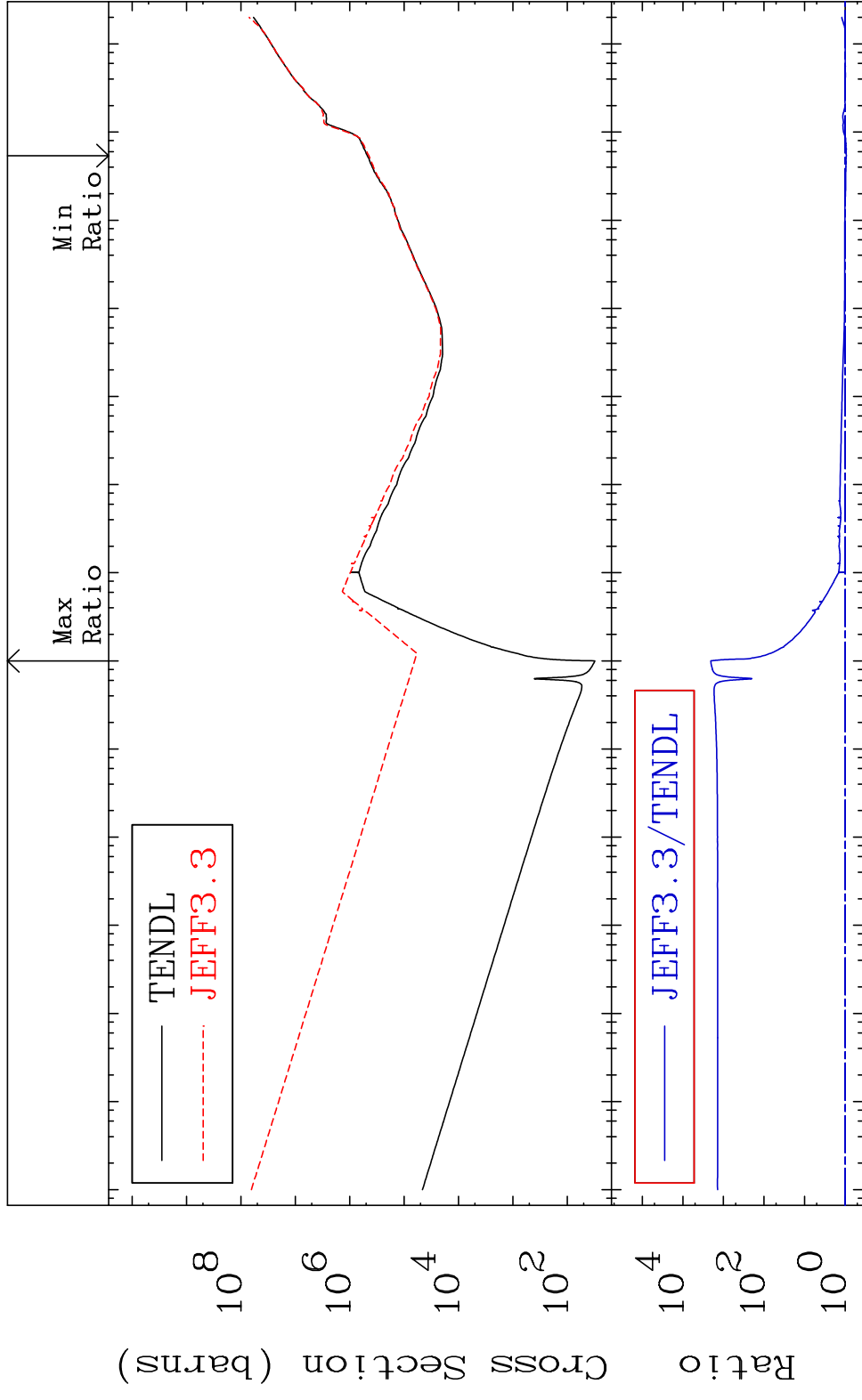


65

Incident Energy (eV)

39-Y -87

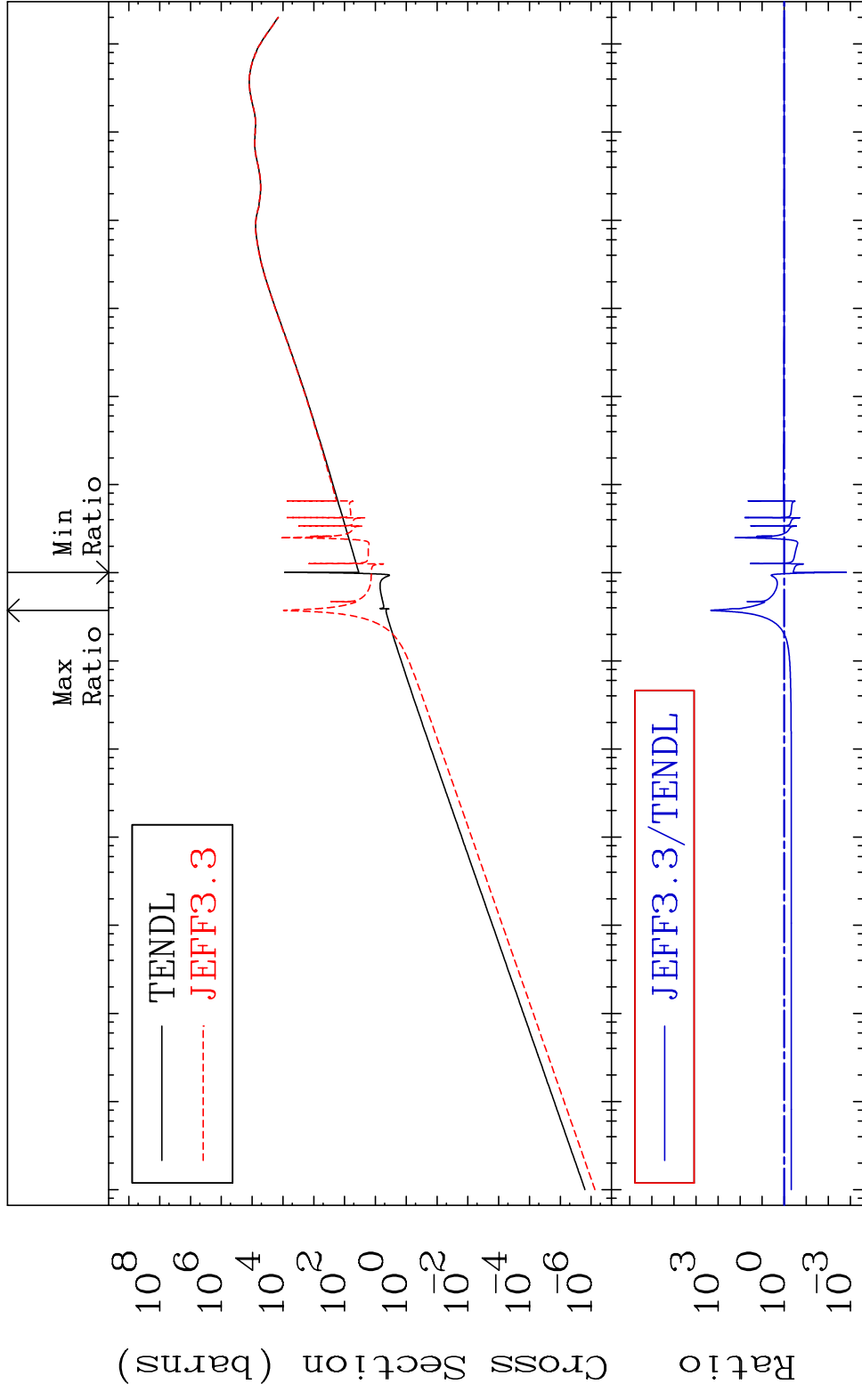
MAT 3919 Kerma total (eV-barns) 39-Y -87
 Cross Section -6.847 To 9999. %



MAT 3919

Kerma elastic
Cross Section

39-Y -87
-99.85 To 9999. %

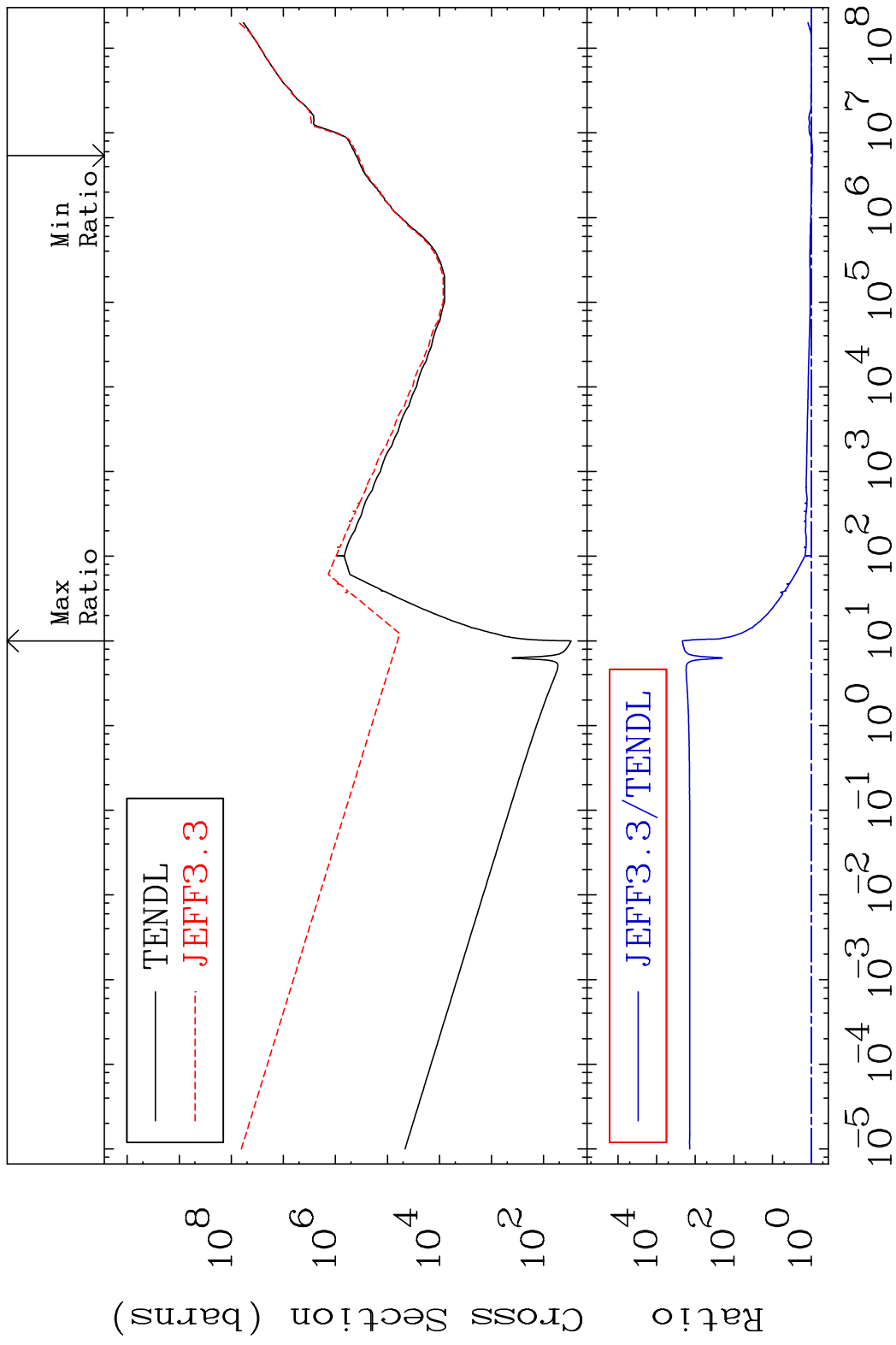


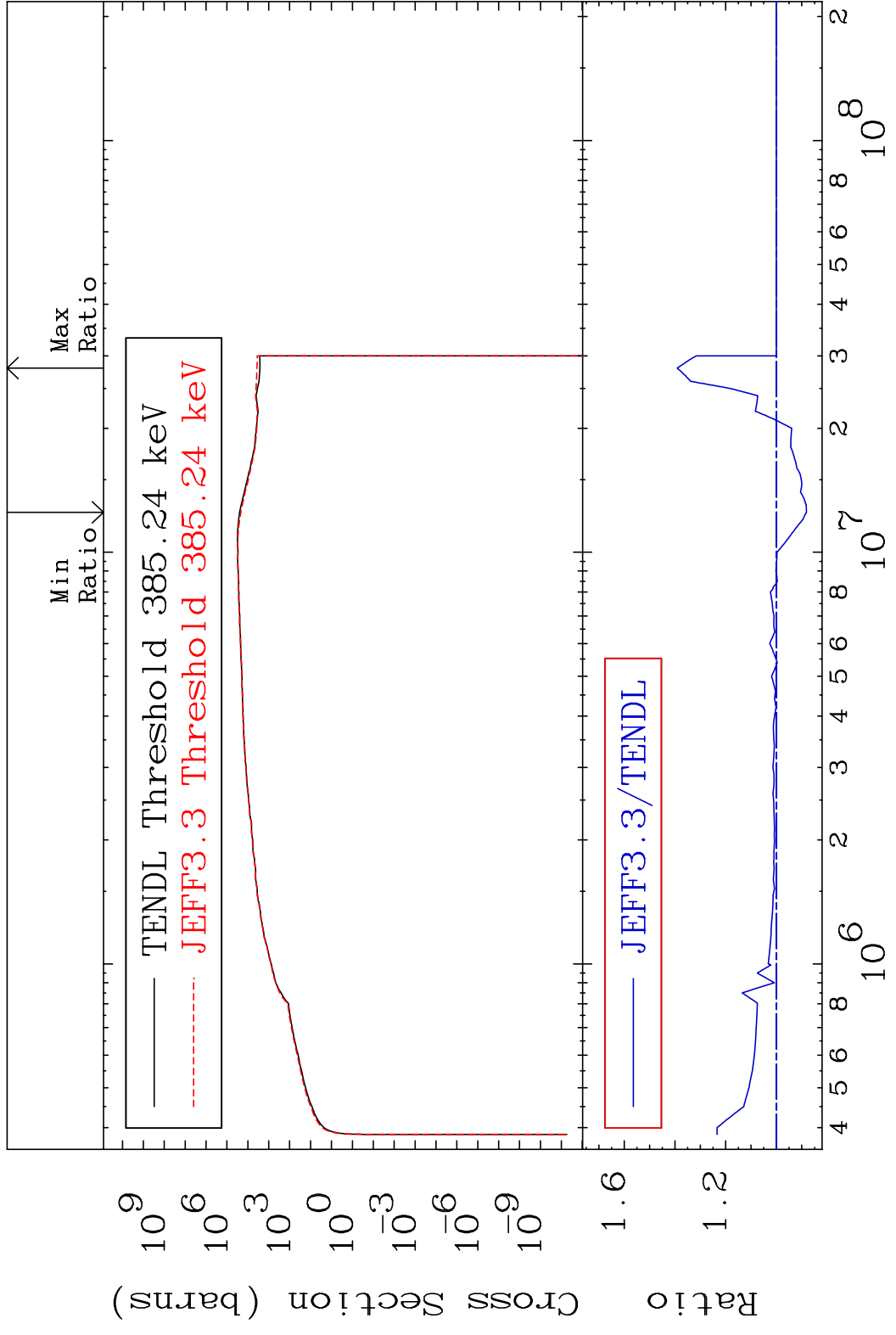
67

Incident Energy (eV)

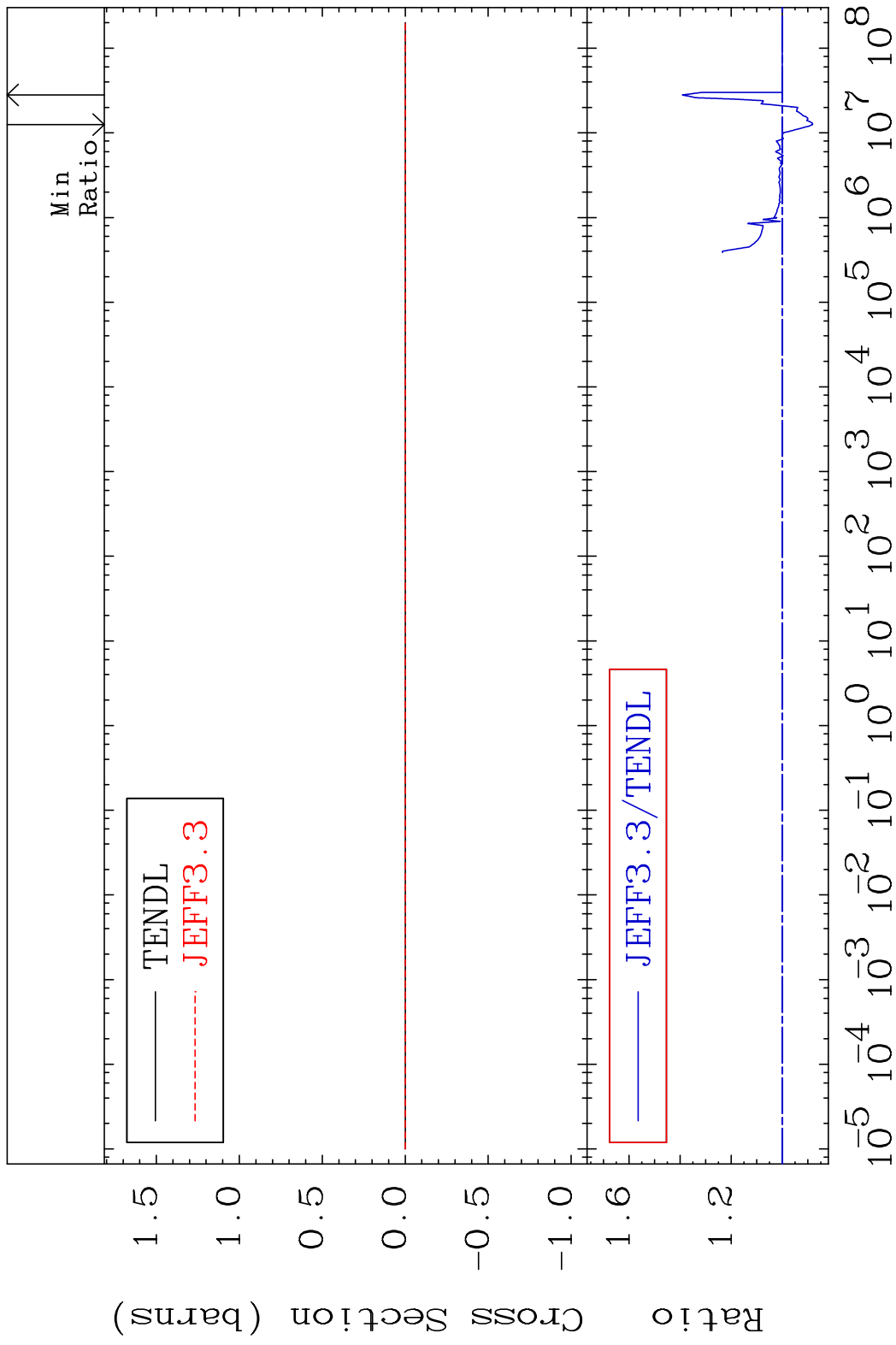
39-Y -87

MAT 3919 Kerma non-elastic (all but mt2) 39-Y -87
 Cross Section -8.127 To 9999. %



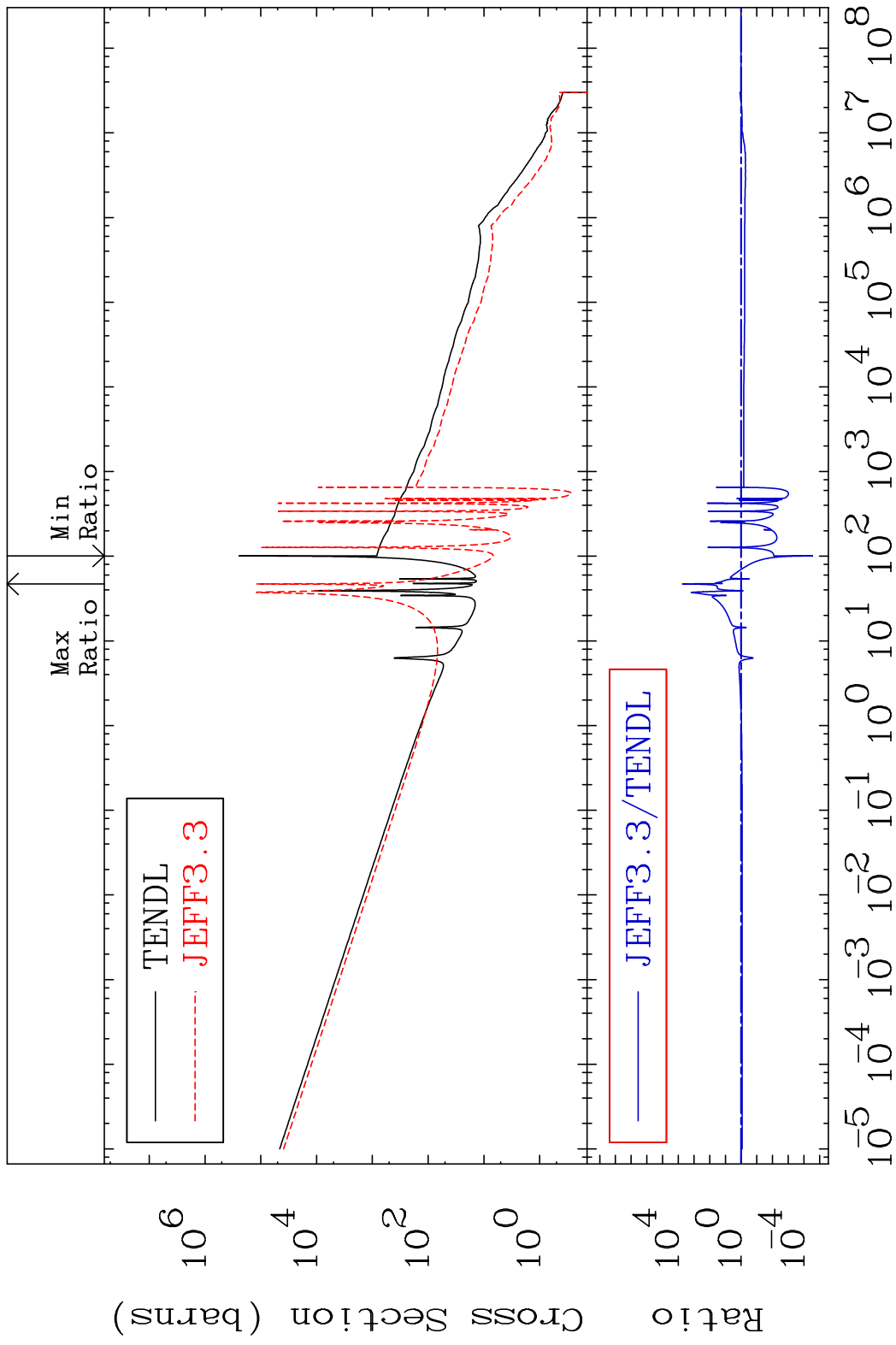


MAT 3919 Kerma fission (mt18 or mt19-20-21-38) 39-Y -87
 Cross Section -11.81 To 39.14 %



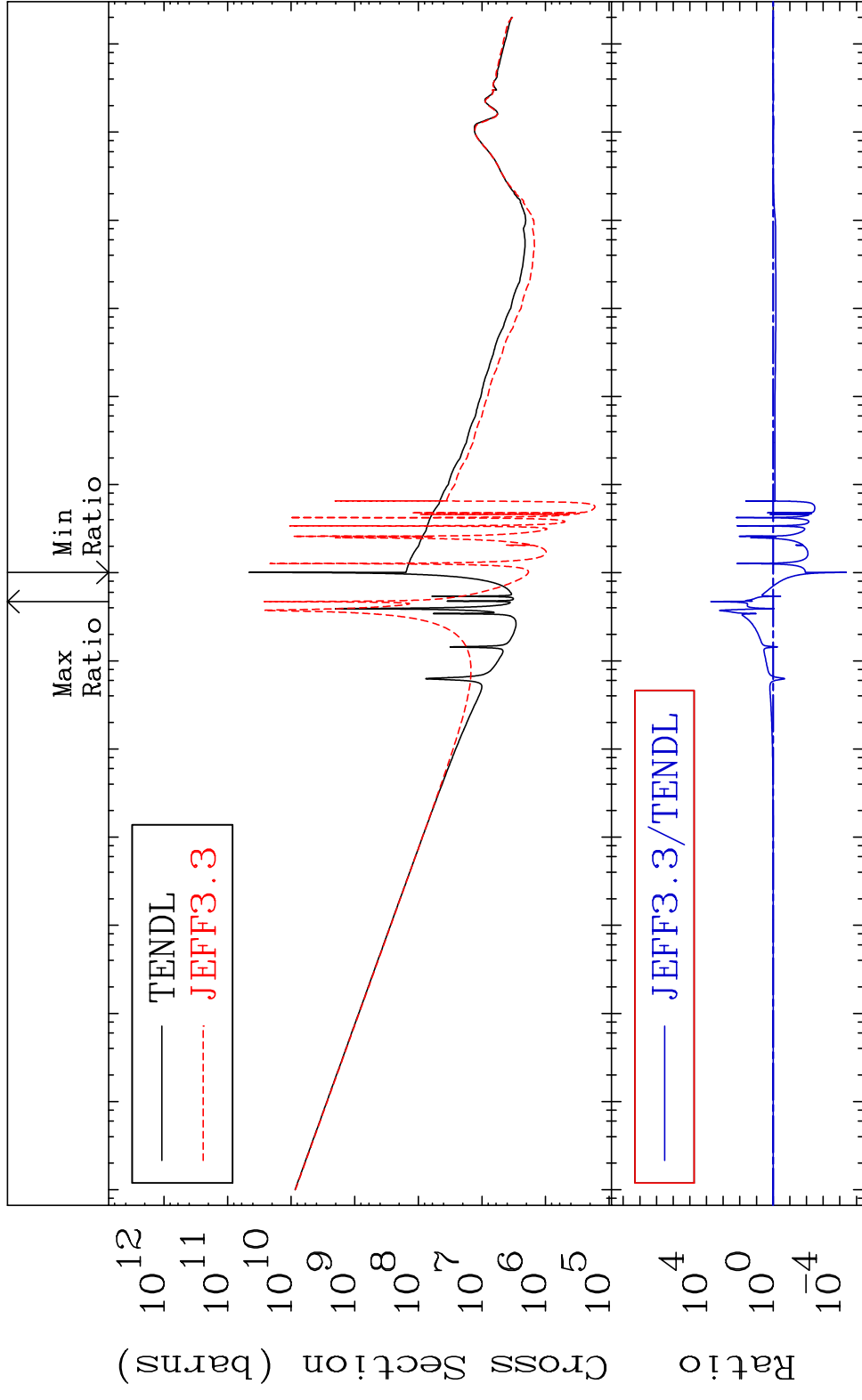
70 Incident Energy (eV) 39-Y -87

MAT 3919 Kerma capture (mt102) 39-Y -87
 Cross Section -100.0 To 9999. %



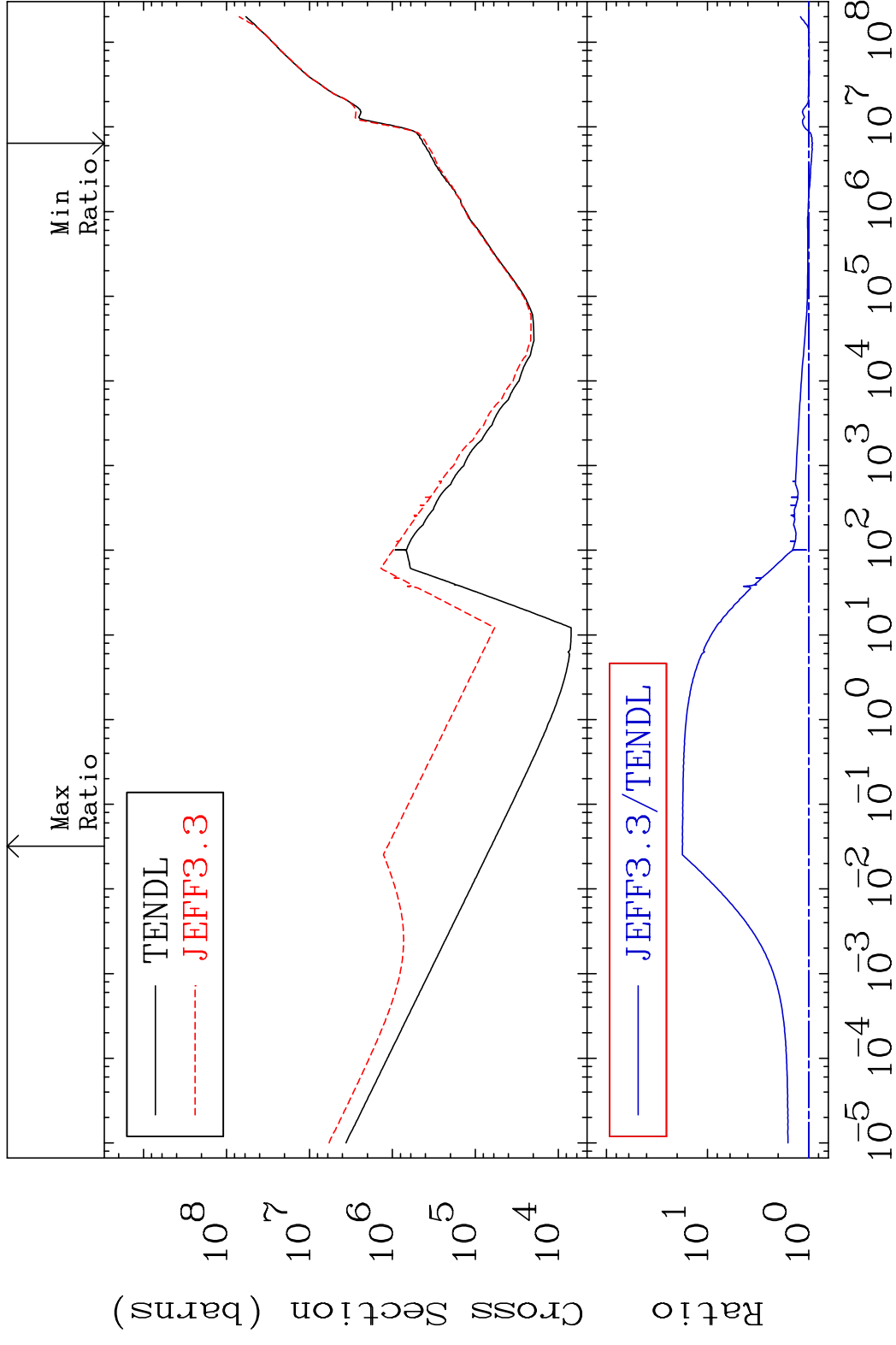
71 Incident Energy (eV) 39-Y -87

MAT 3919 Total photon (eV-barns) 39-Y -87
 Cross Section -100.0 To 9999. %

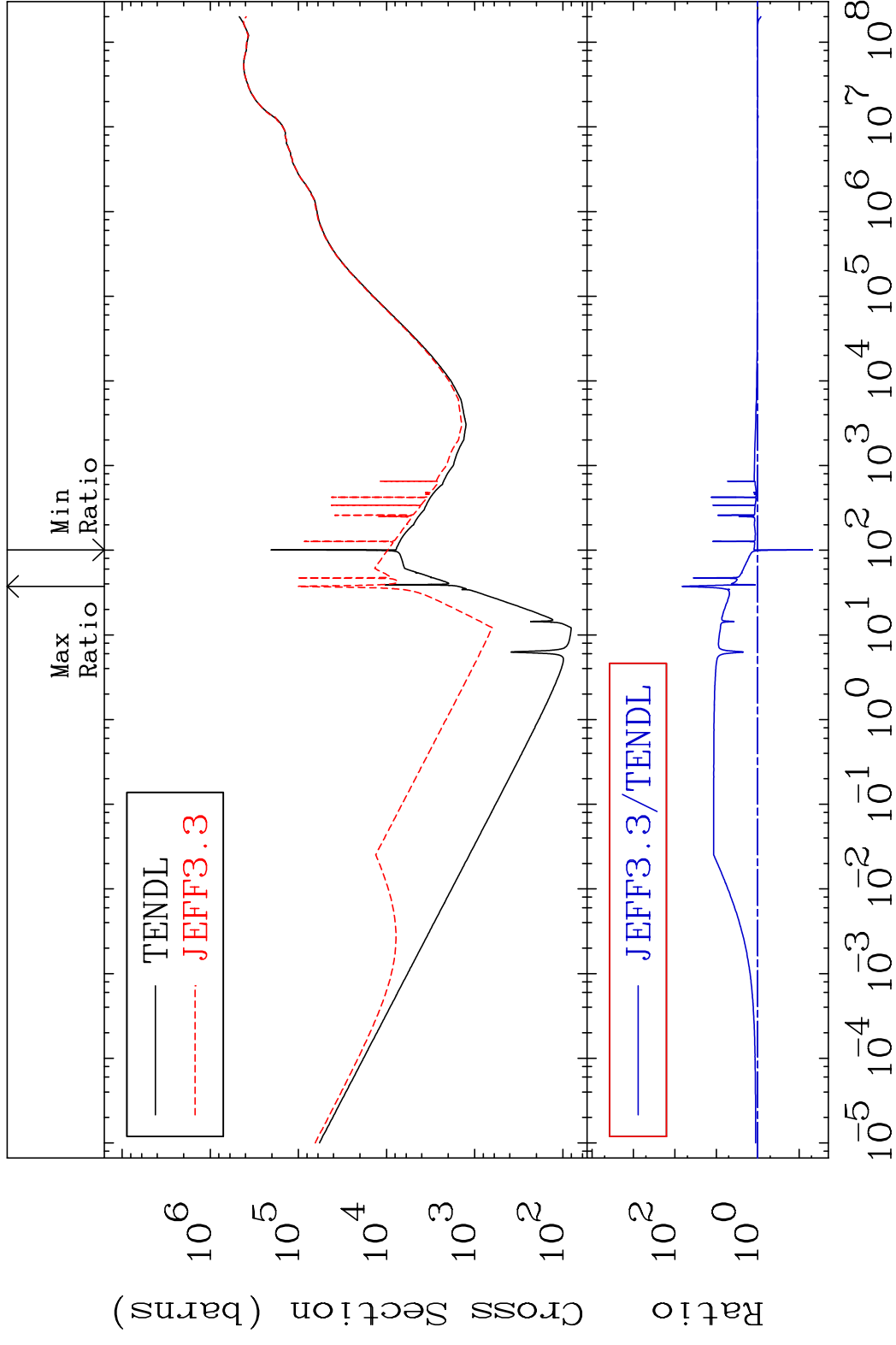


72 Incident Energy (eV) 39-Y -87

MAT 3919 Total kinematic kerma (high limit) 39-Y -87
 Cross Section -8.470 To 1676. %



MAT 3919 Dpa total (eV-barns) 39-Y -87
 Cross Section -95.28 To 6491. %

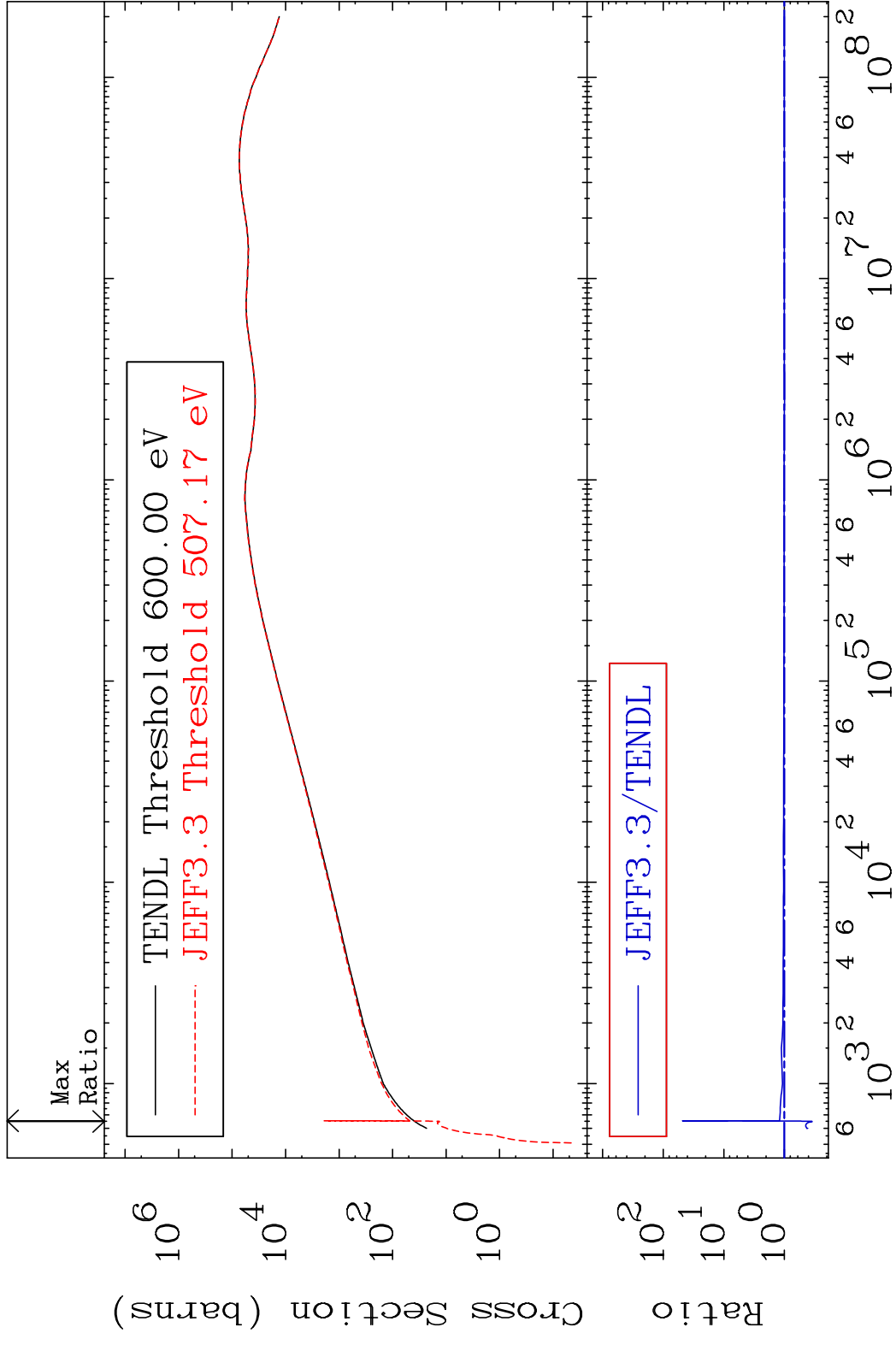


MAT 3919

Dpa elastic (mt2)

39-Y -87

Cross Section -65.78 To 4730. %

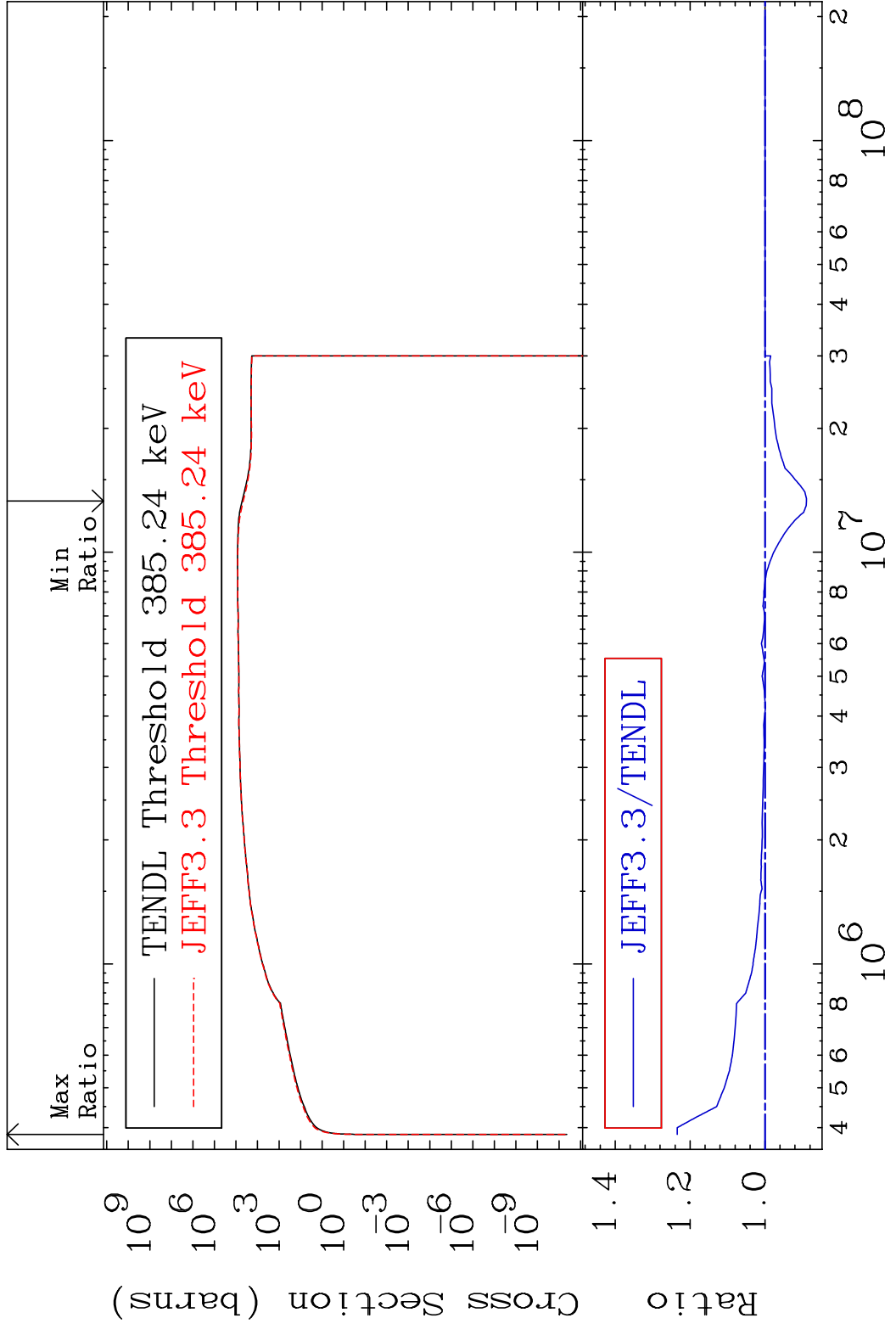


75

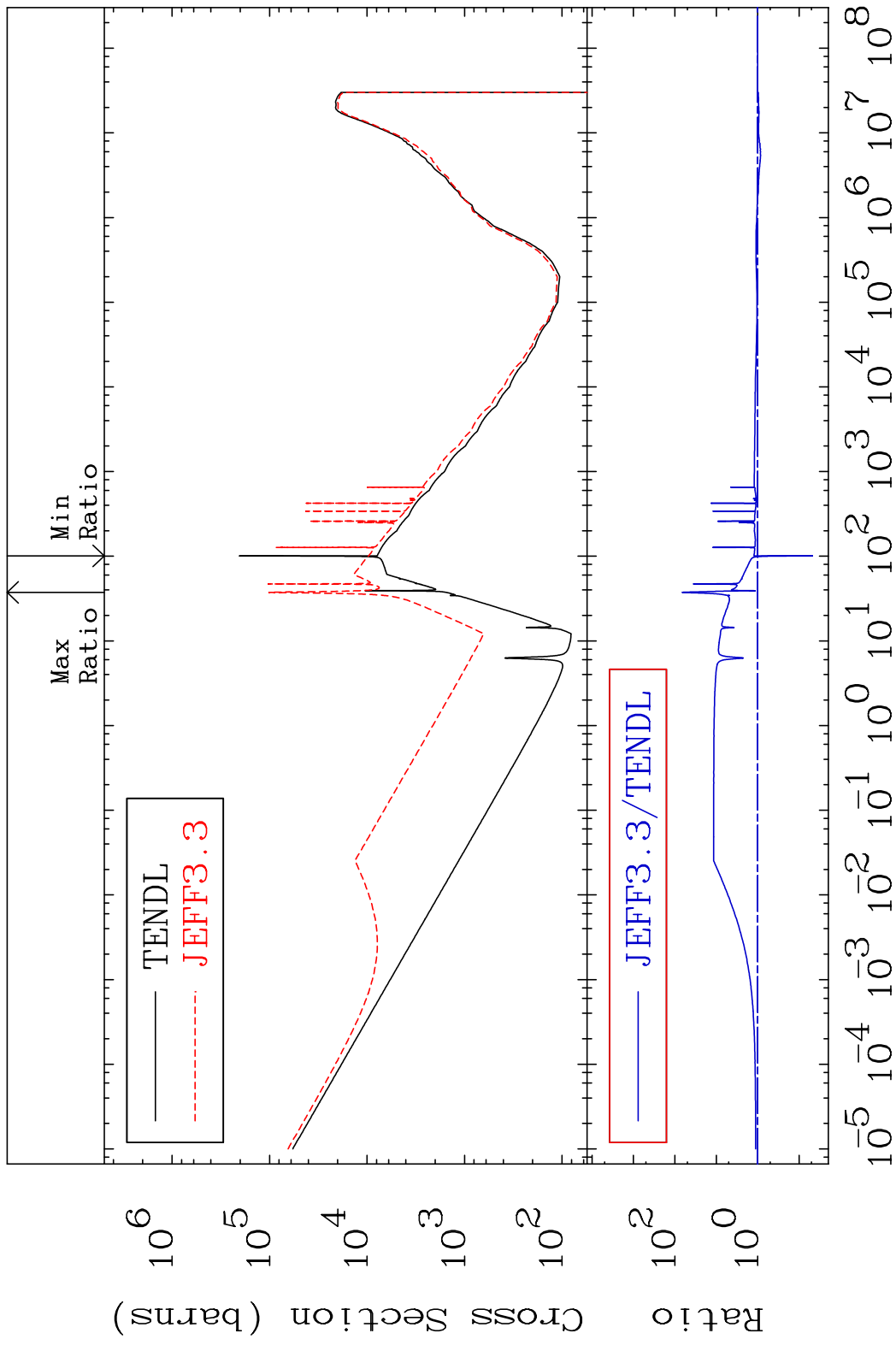
Incident Energy (eV)

39-Y -87

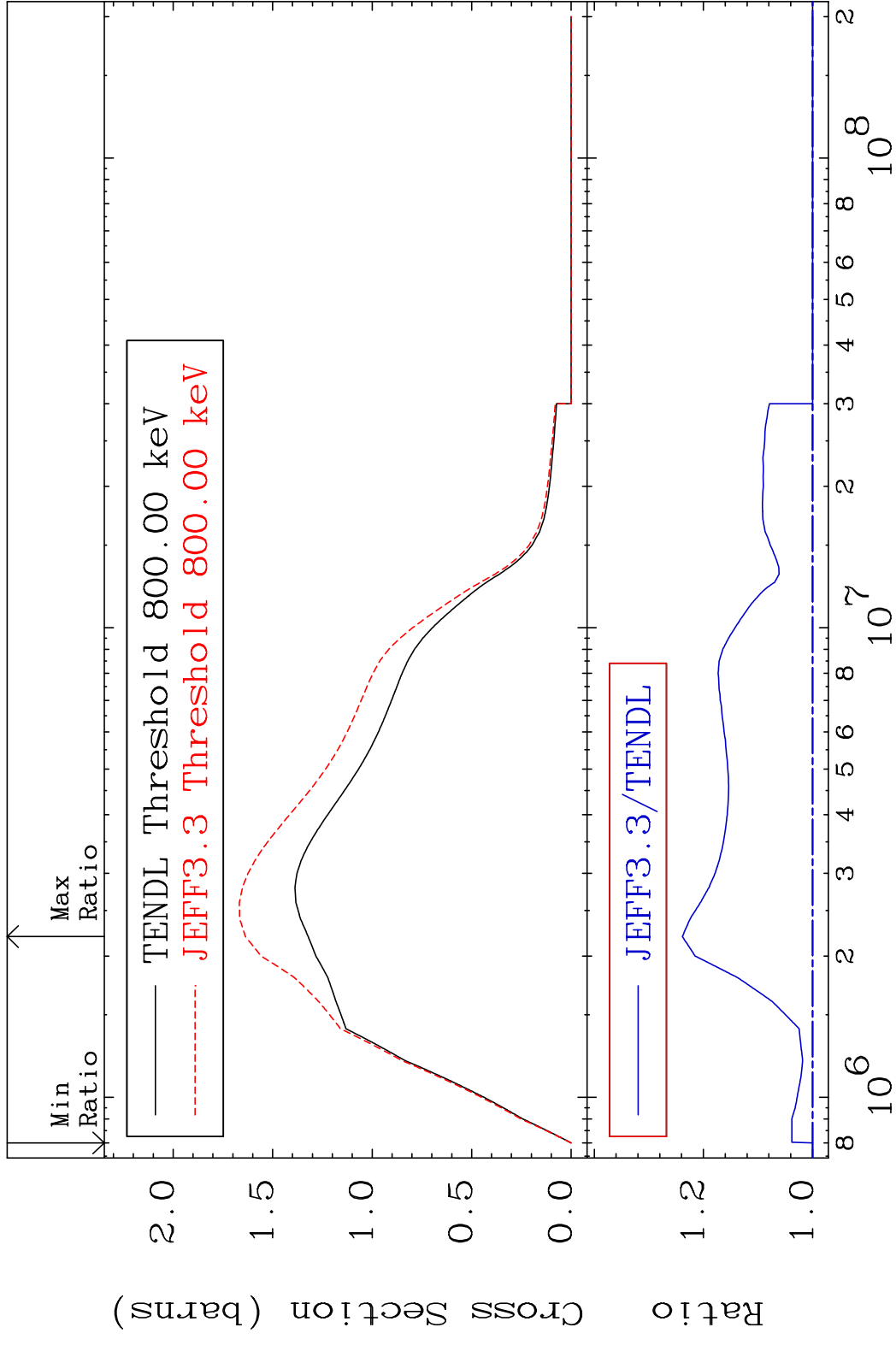
MAT 3919 Dpa inelastic (mt51-91) 39-Y -87
 Cross Section -11.04 To 23.44 %

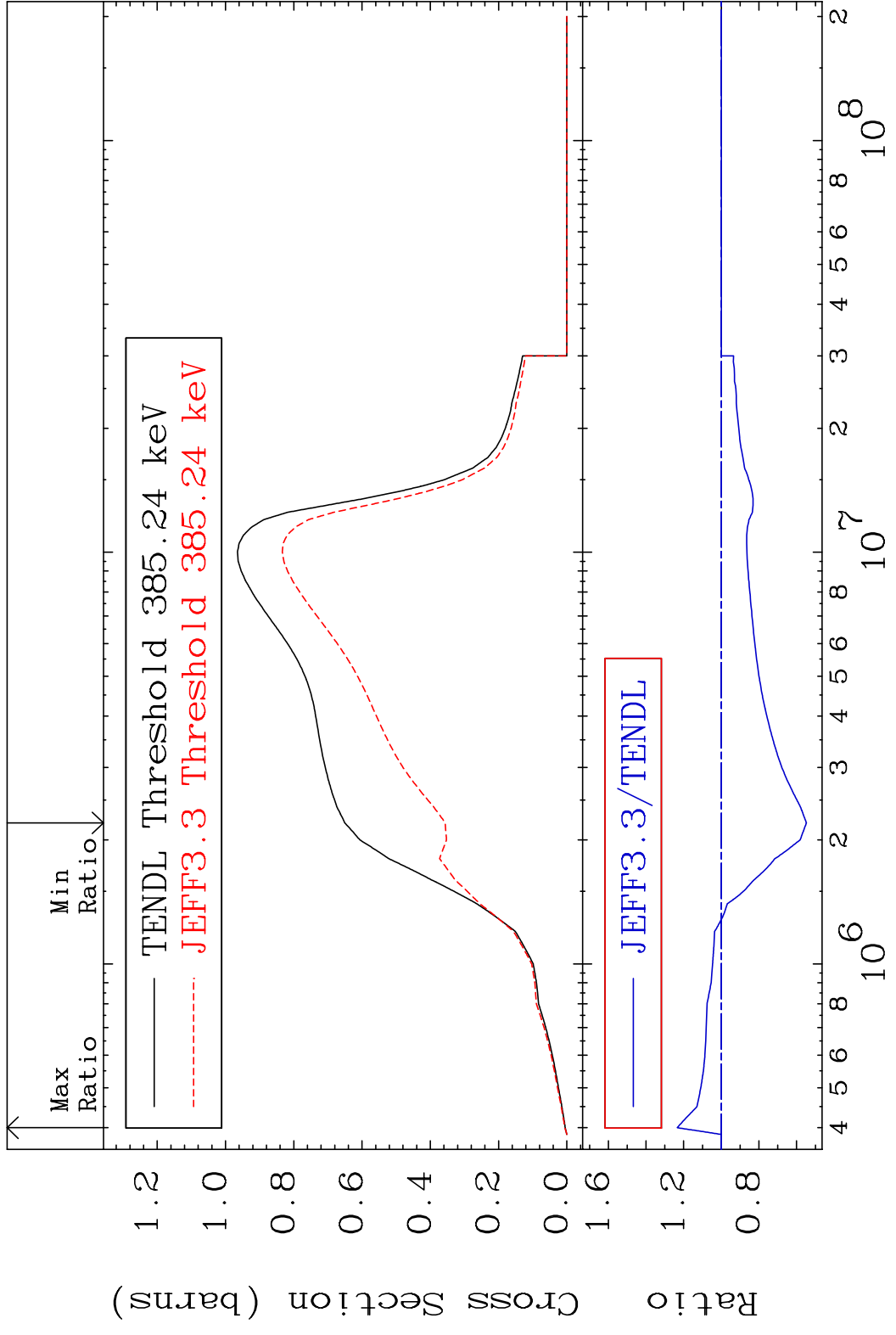


MAT 3919 Dpa disappearance (mt102 -120) 39-Y -87
 Cross Section -95.28 To 6491. %

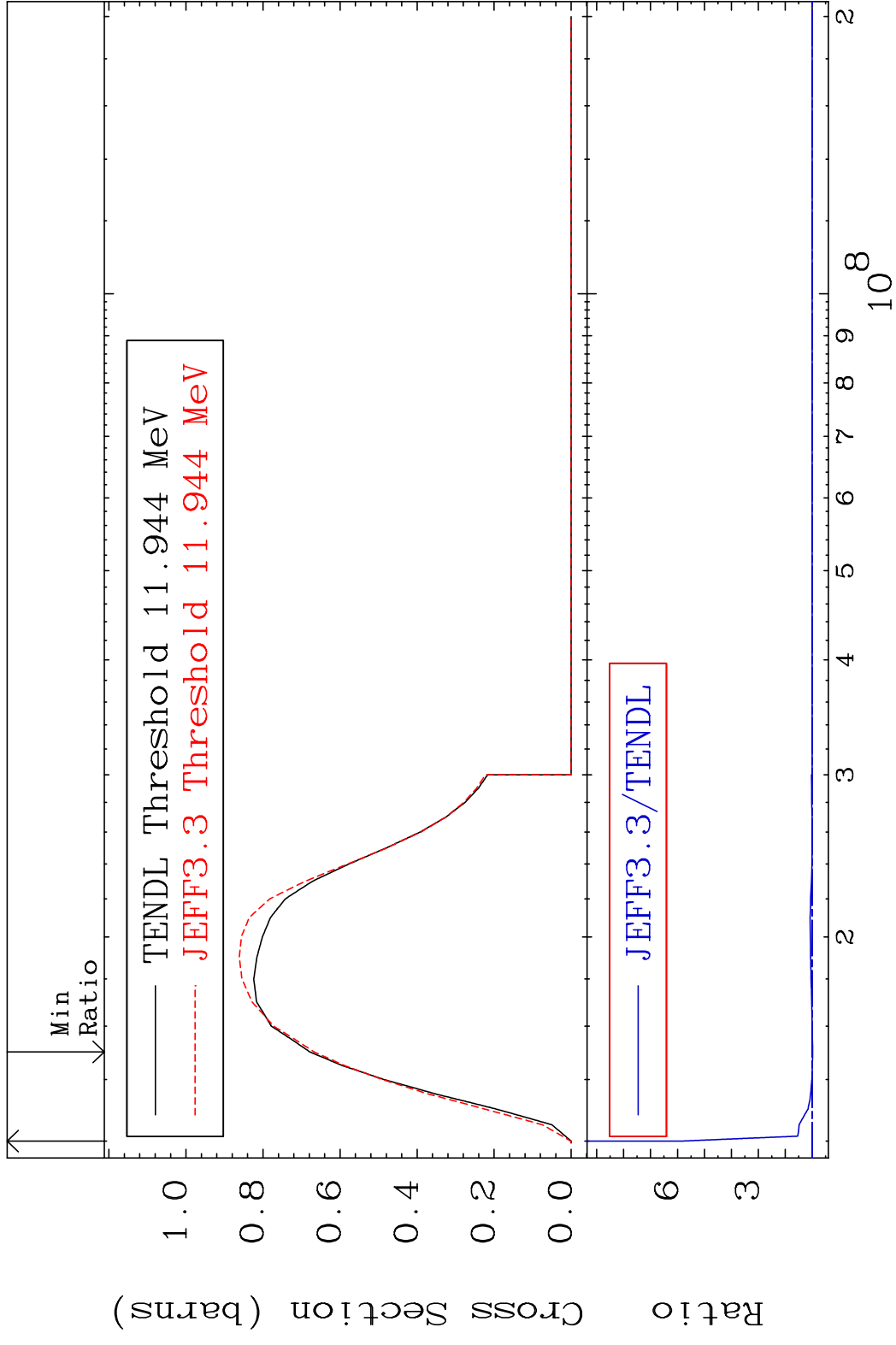


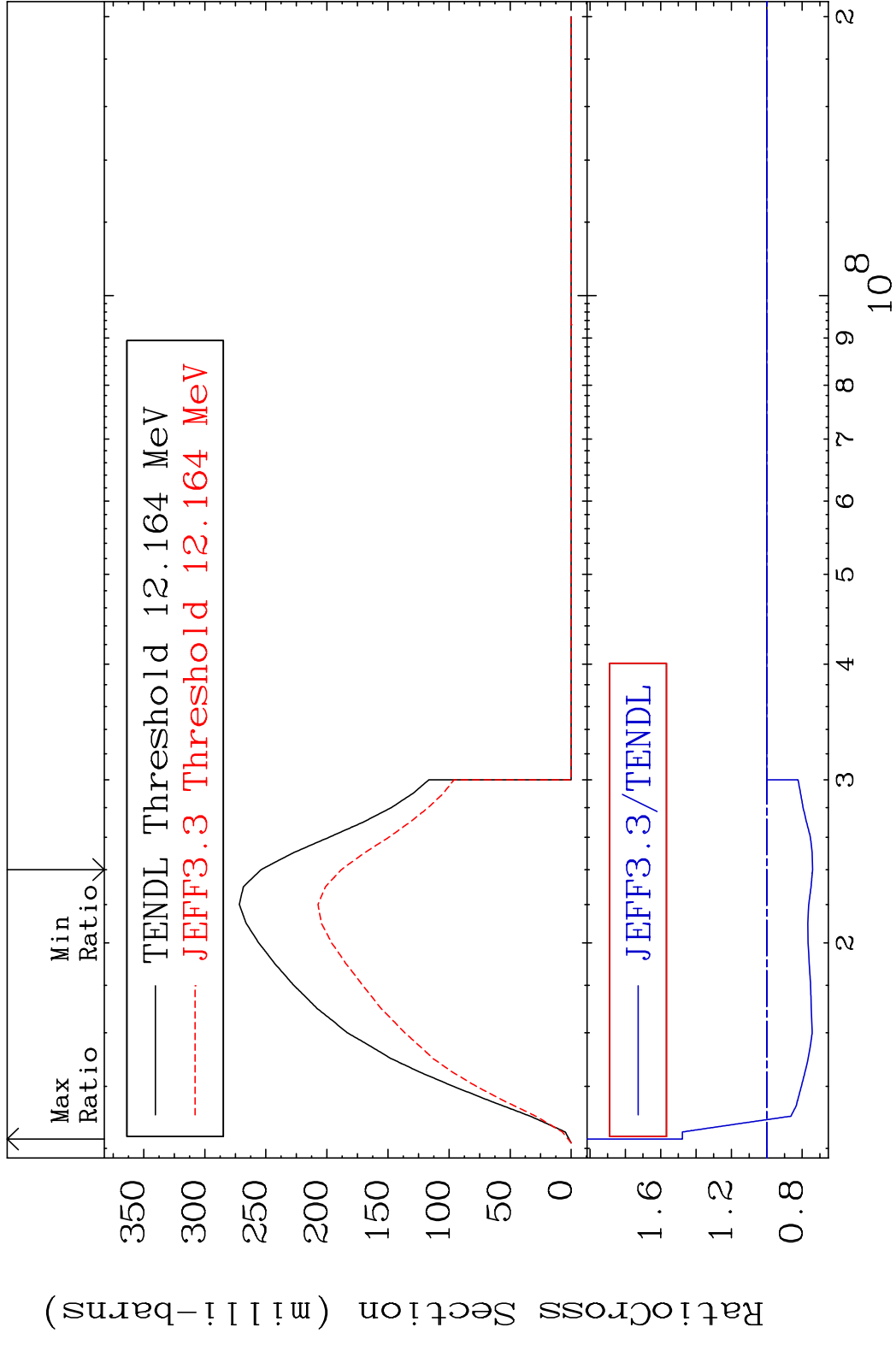
77 Incident Energy (eV) 39-Y -87



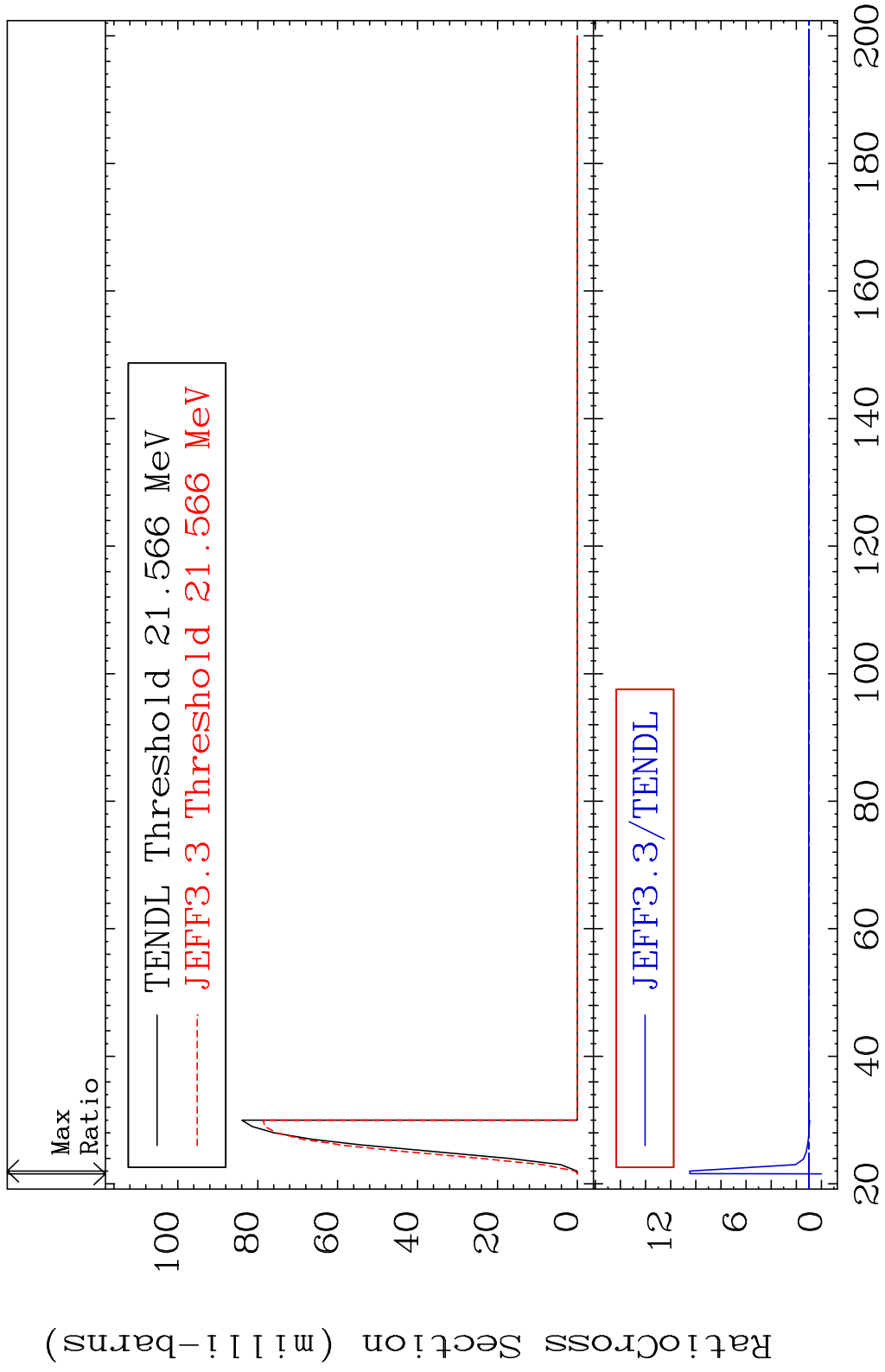


MAT 3919 (n,2n):39-Y -86g 39-Y -87
 Radionuclide Production Cross Section 481.9 %

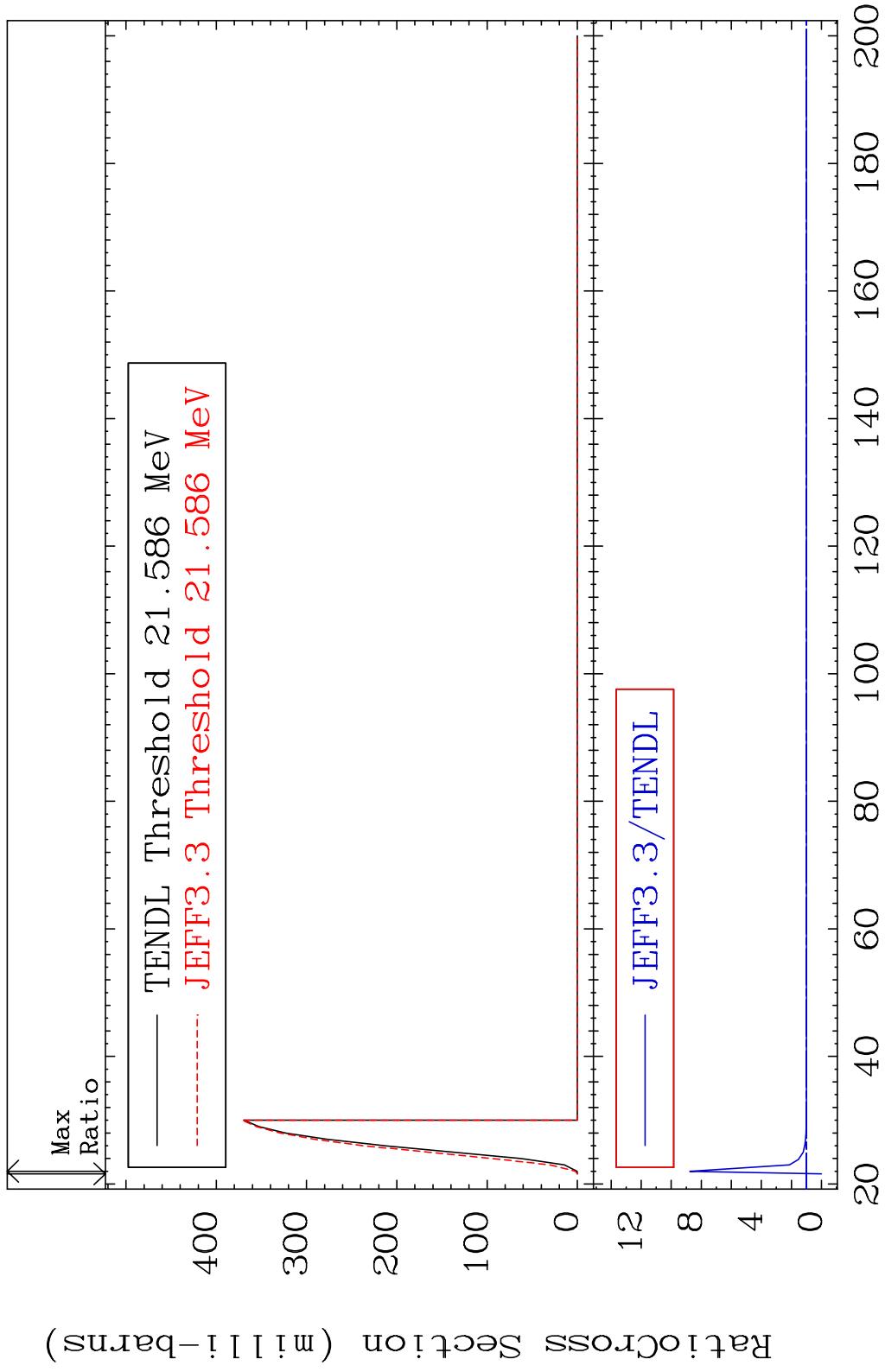




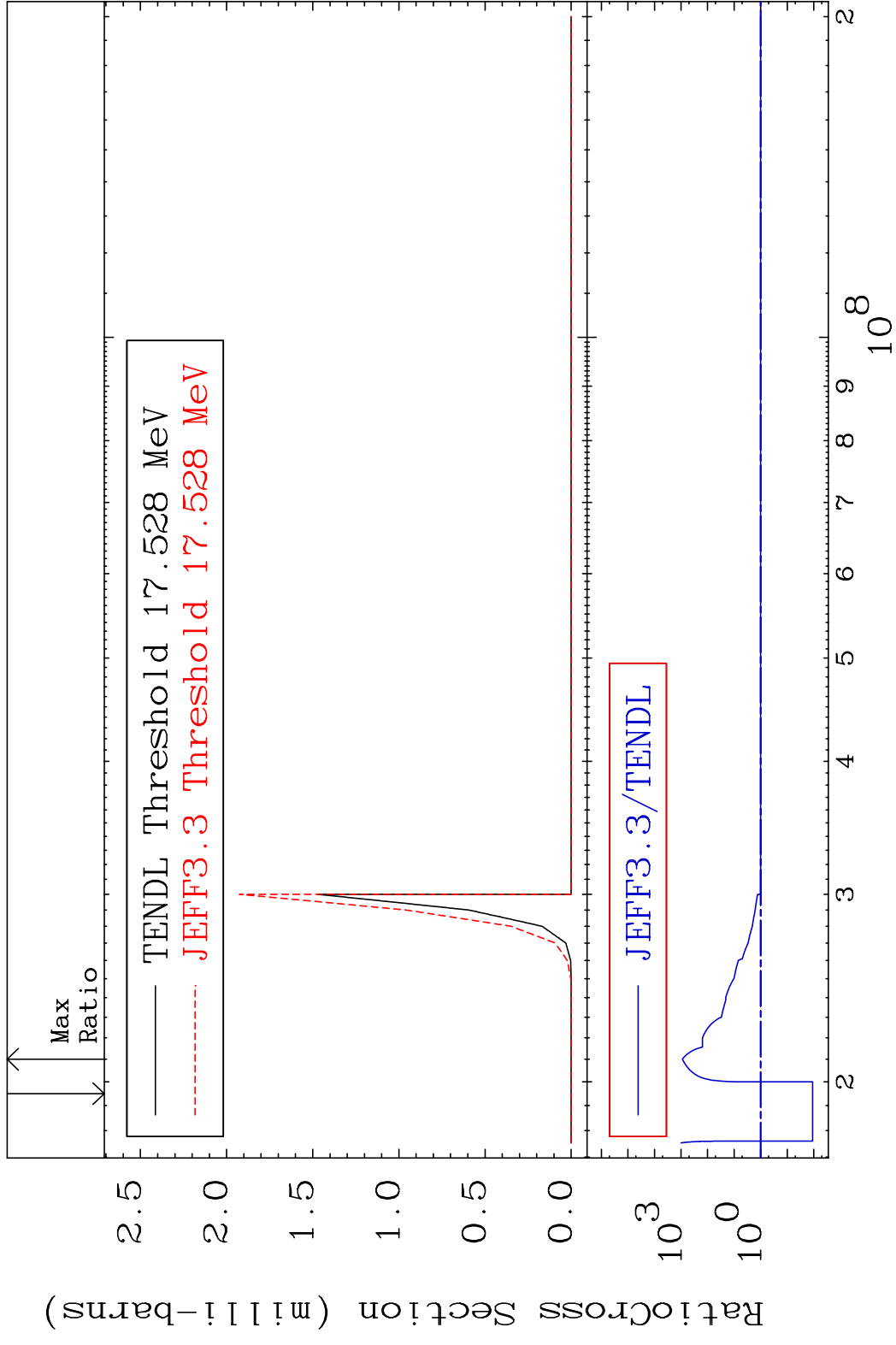
MAT 3919 (n,3n):39-Y -85g 39-Y -87
 Radionuclide Production Cross Section 180.01 dth 948.4 %



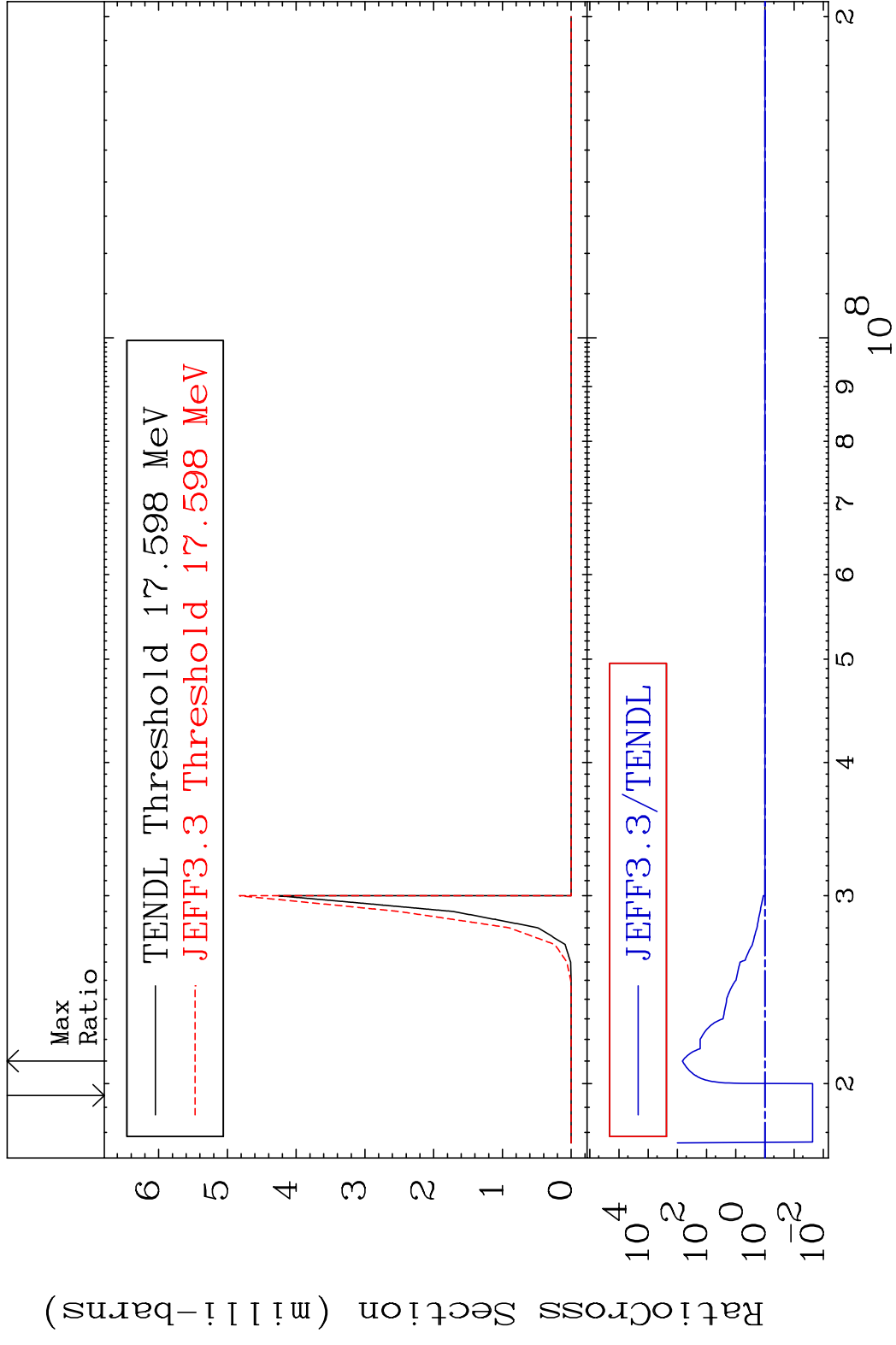
MAT 3919 (n,3n):39-Y -85m1 39-Y -87
 Radionuclide Production Cross Section 180.01 d10 776.5 %

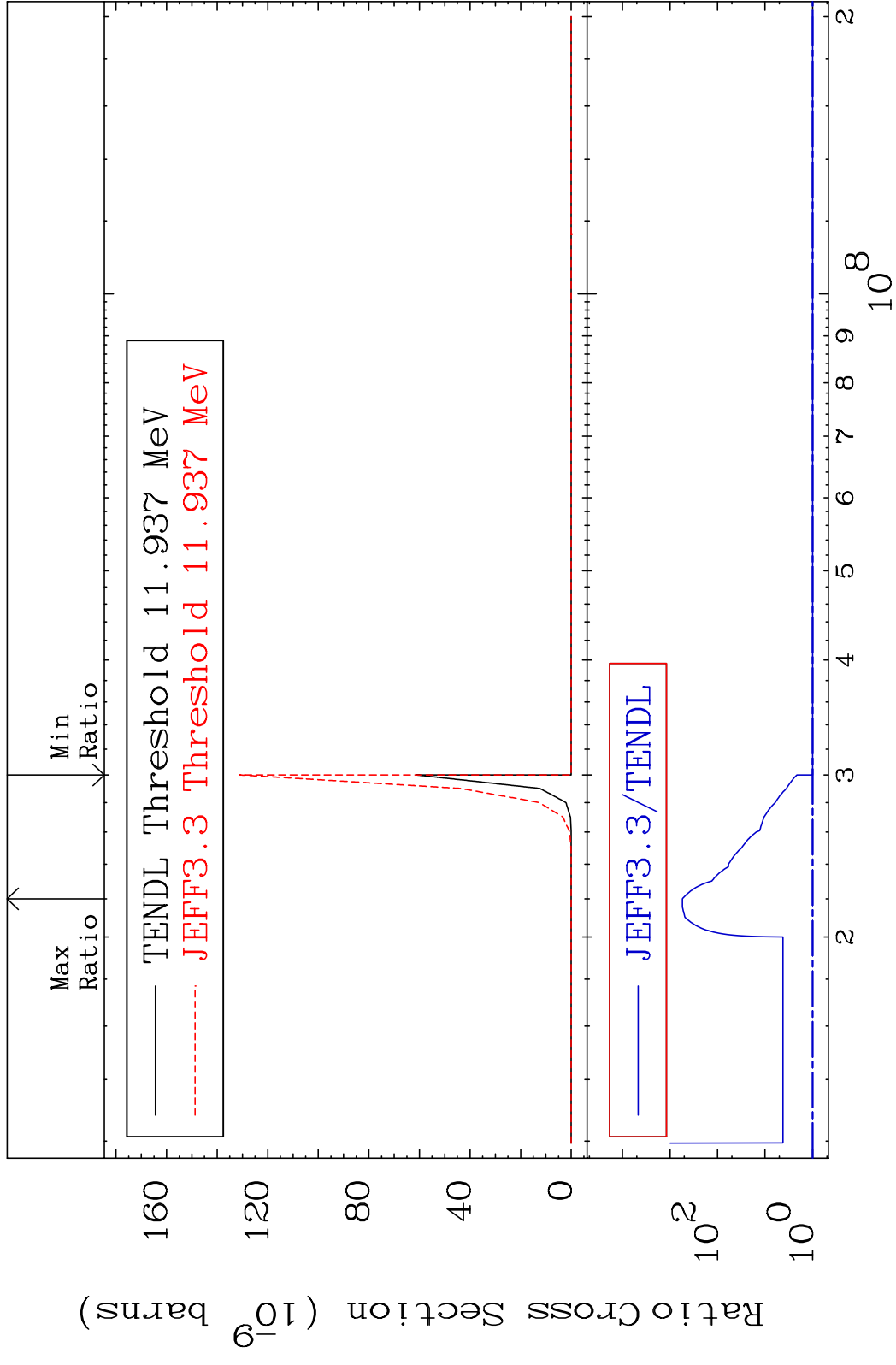


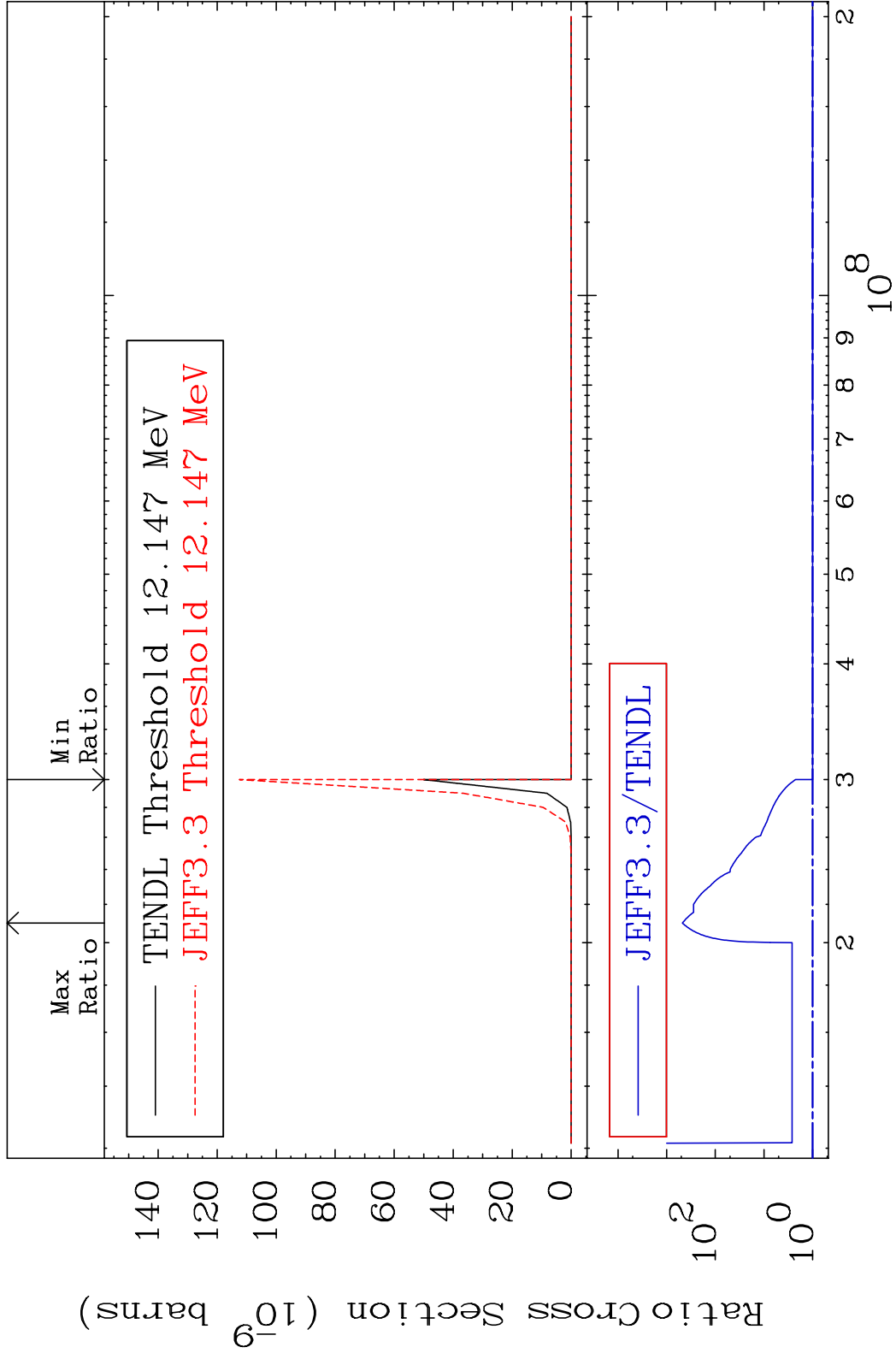
MAT 3919 (n,2n) α :37-Rb-82g 39-Y -87
 Radionuclide Production Cross Section to 9999. %



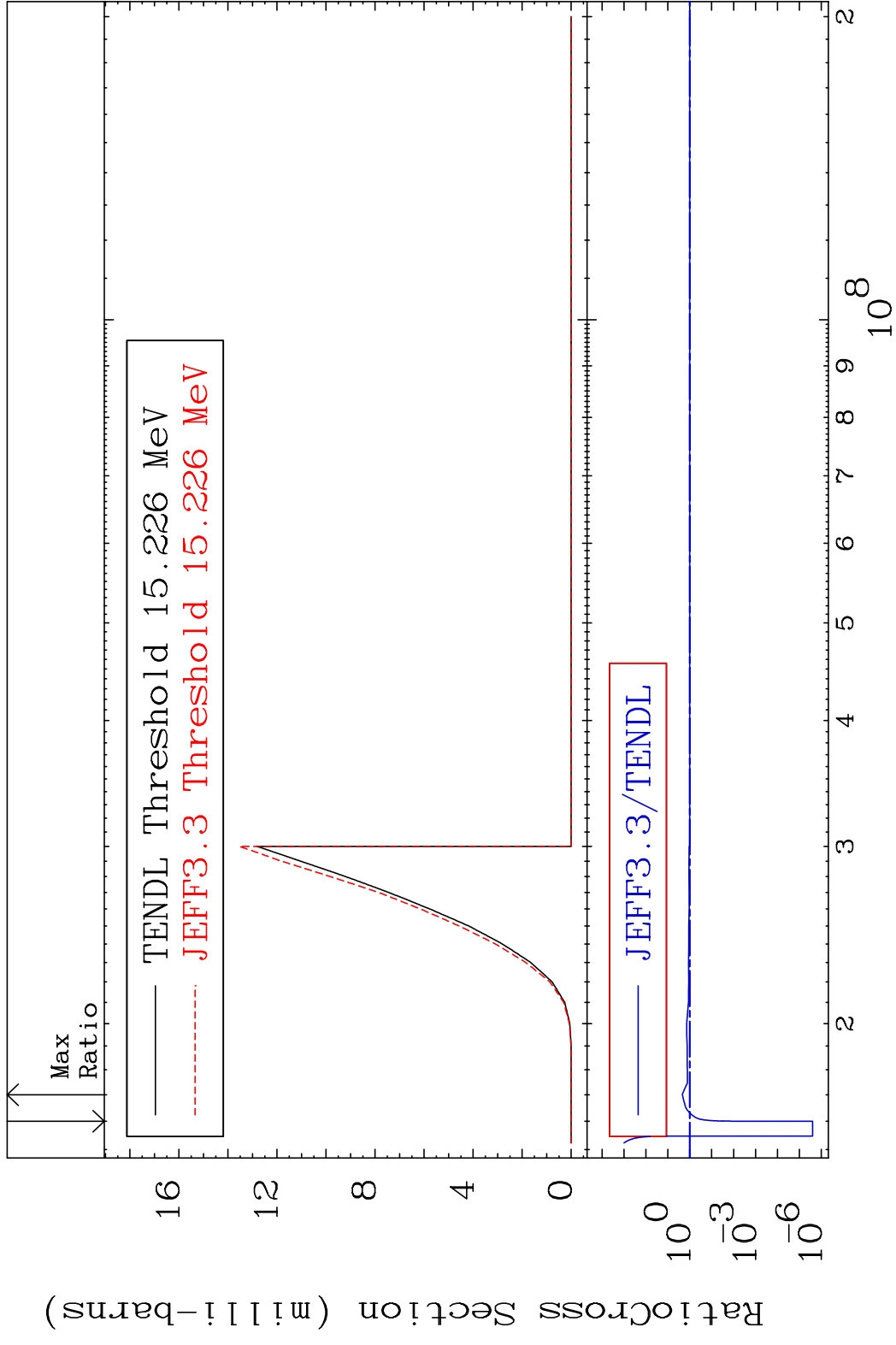
MAT 3919 (n,2n) α :37-Rb-82m1 39-Y -87
 Radionuclide Production Cross Section 9999. %

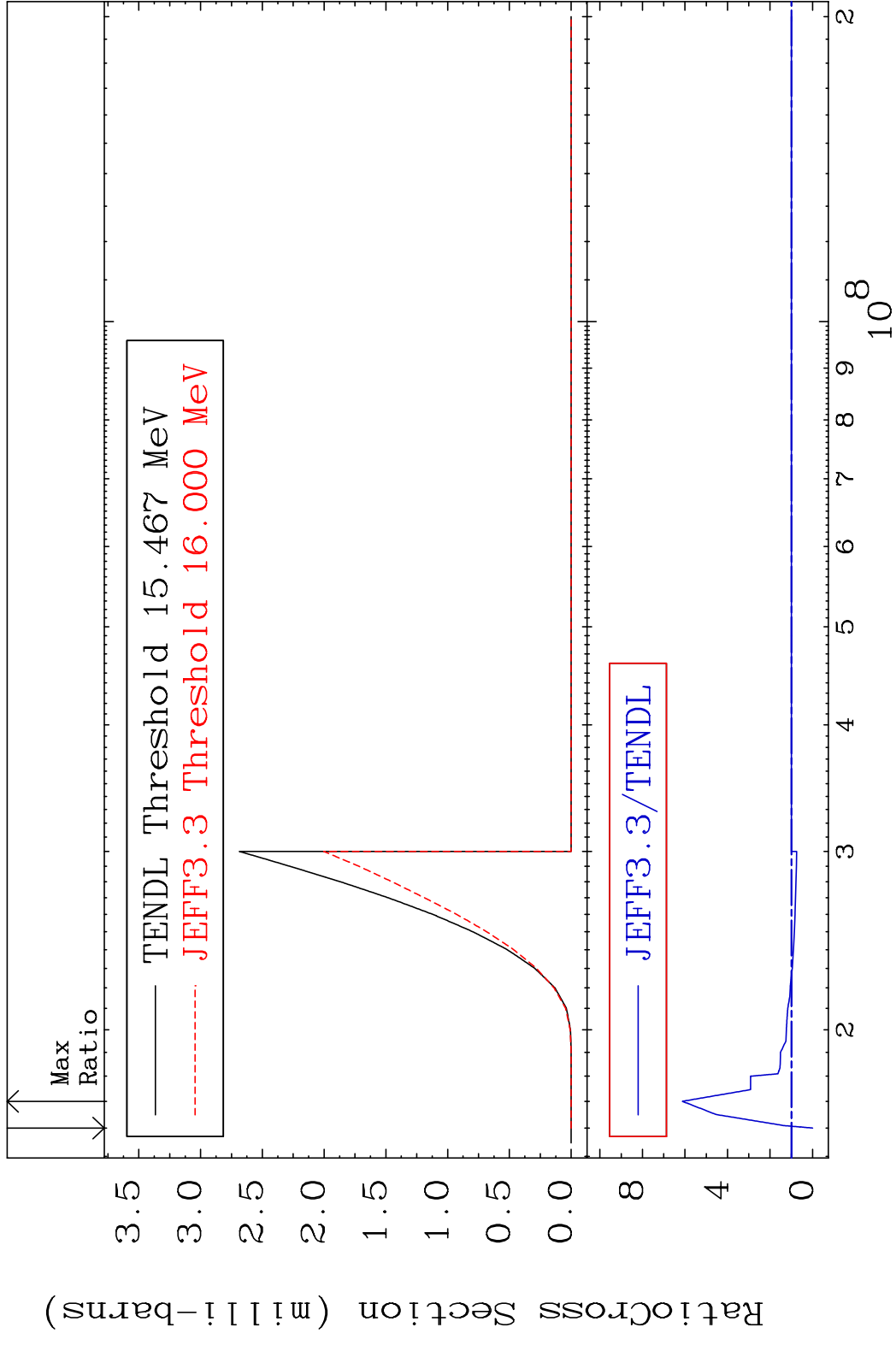




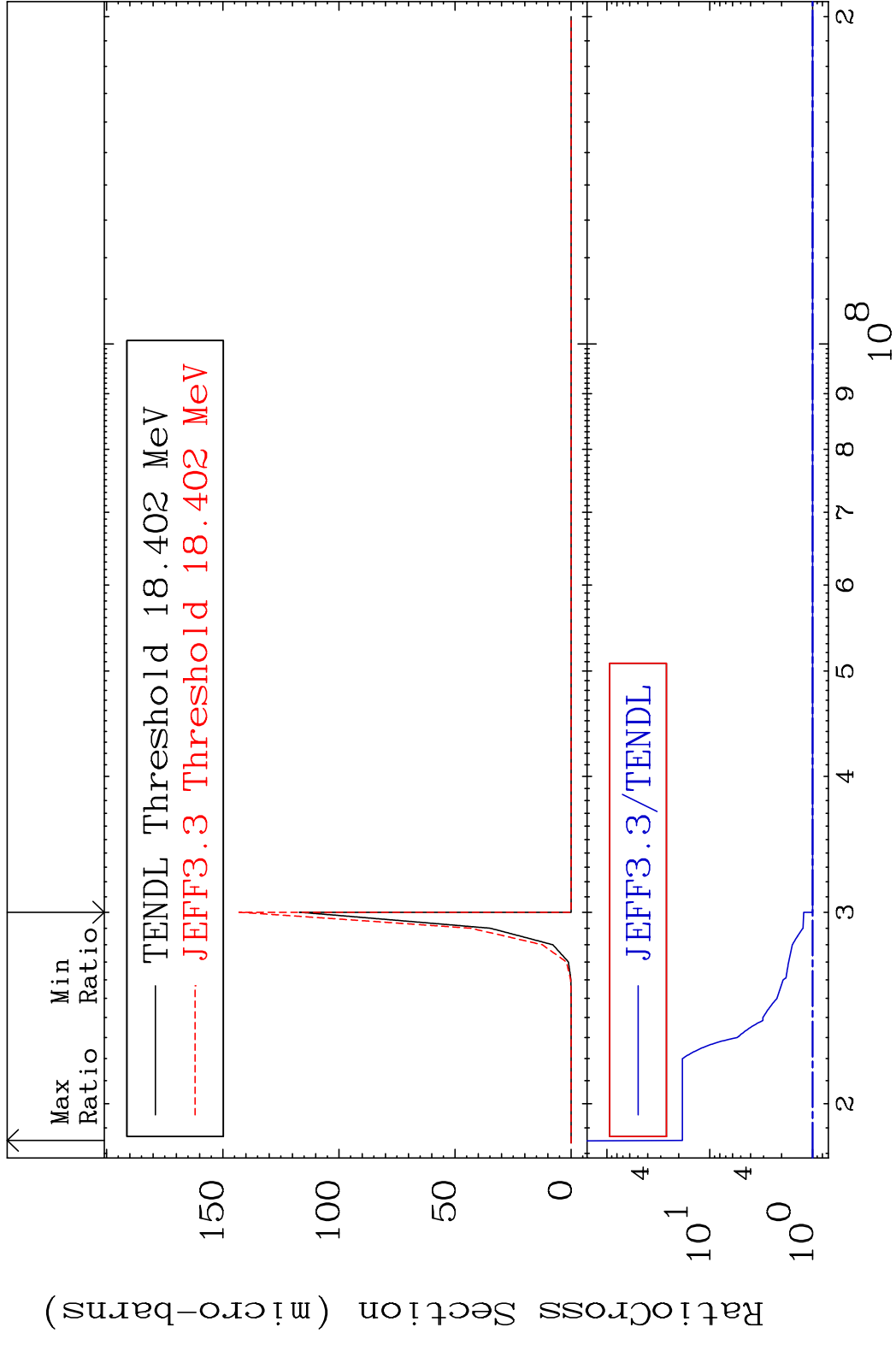


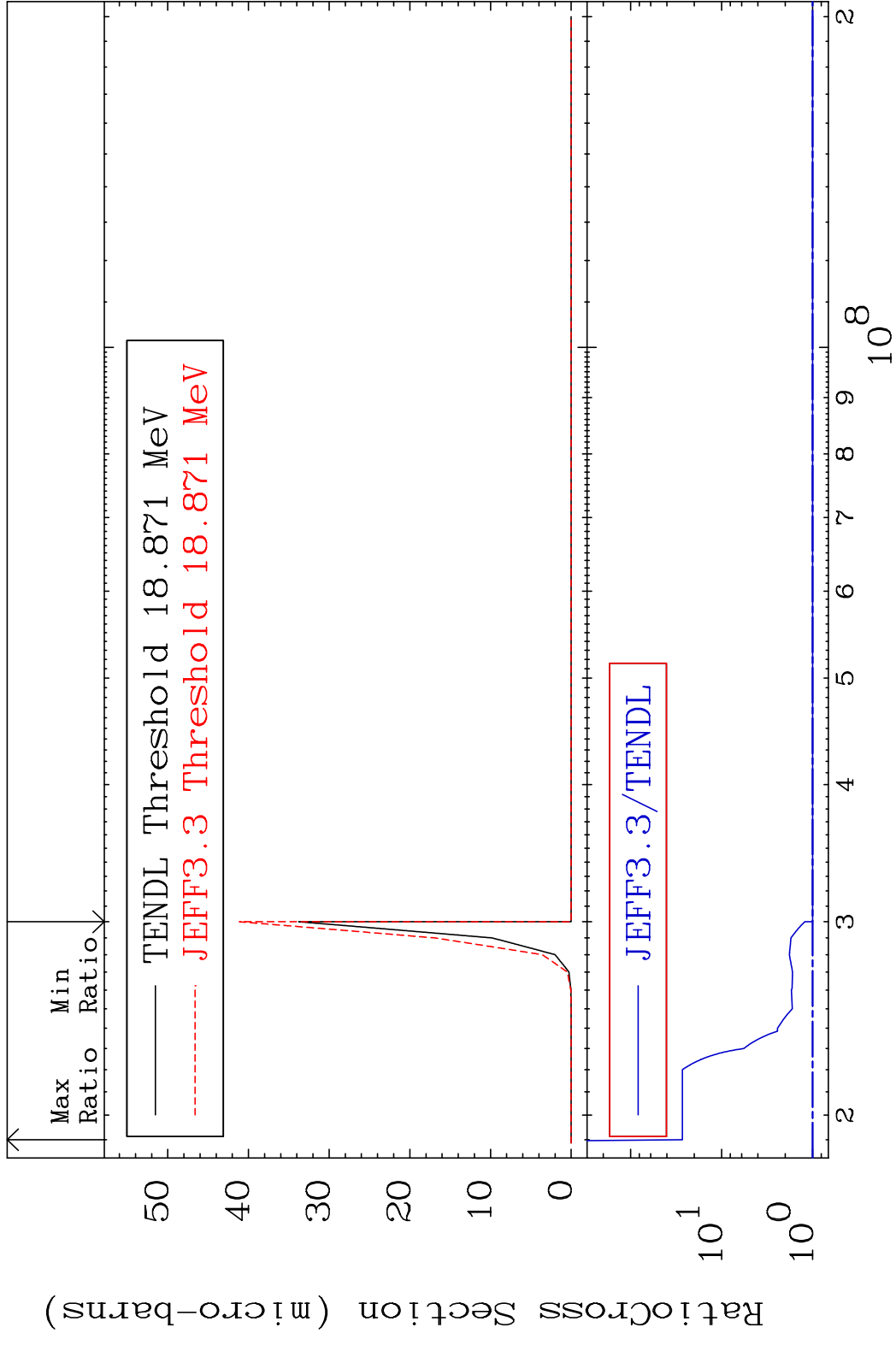
MAT 3919 (n, n') d:38-Sr-85g 39-Y -87
 Radionuclide Production Cross Section 180.01 dth 116.9 %



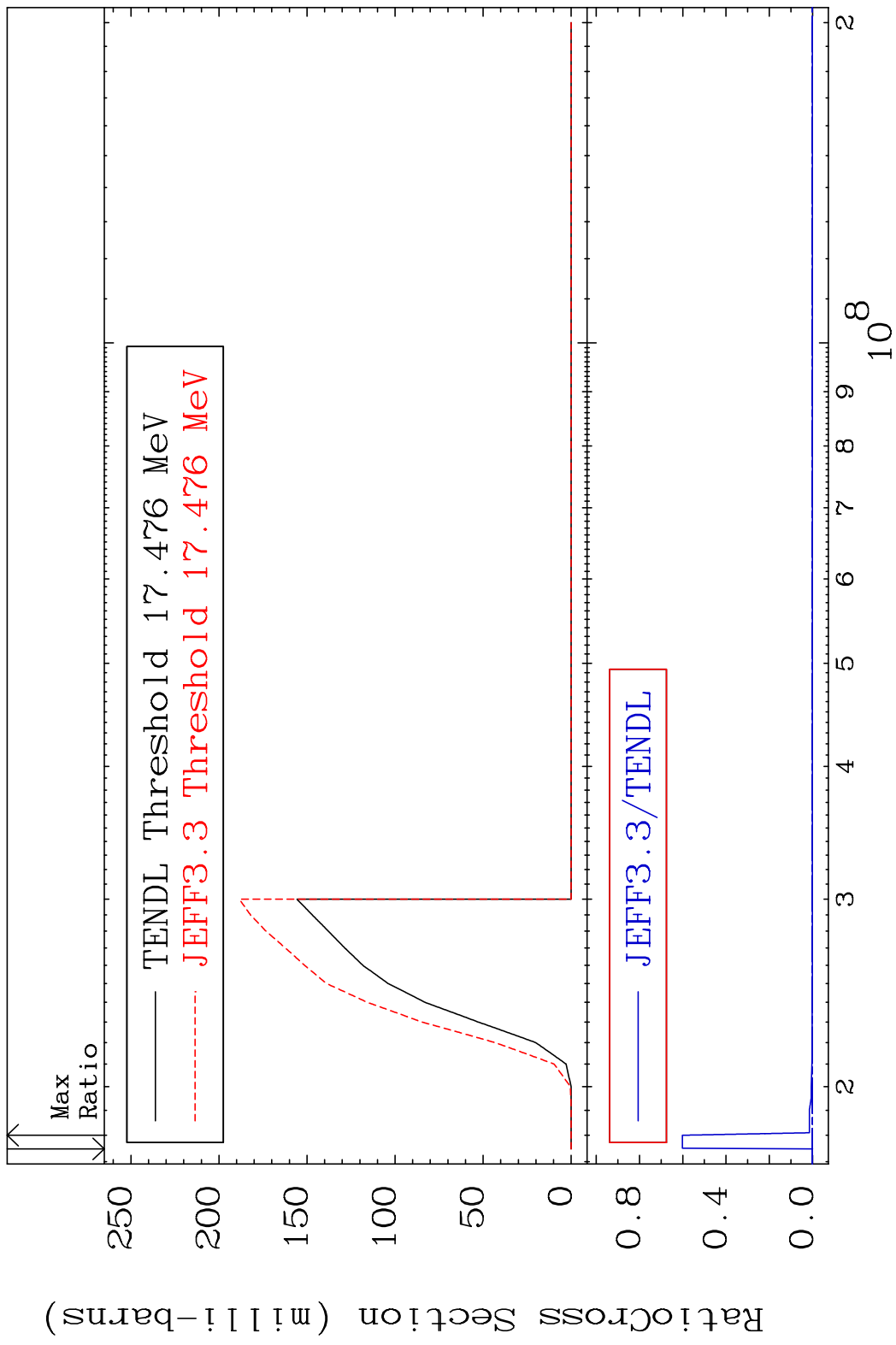


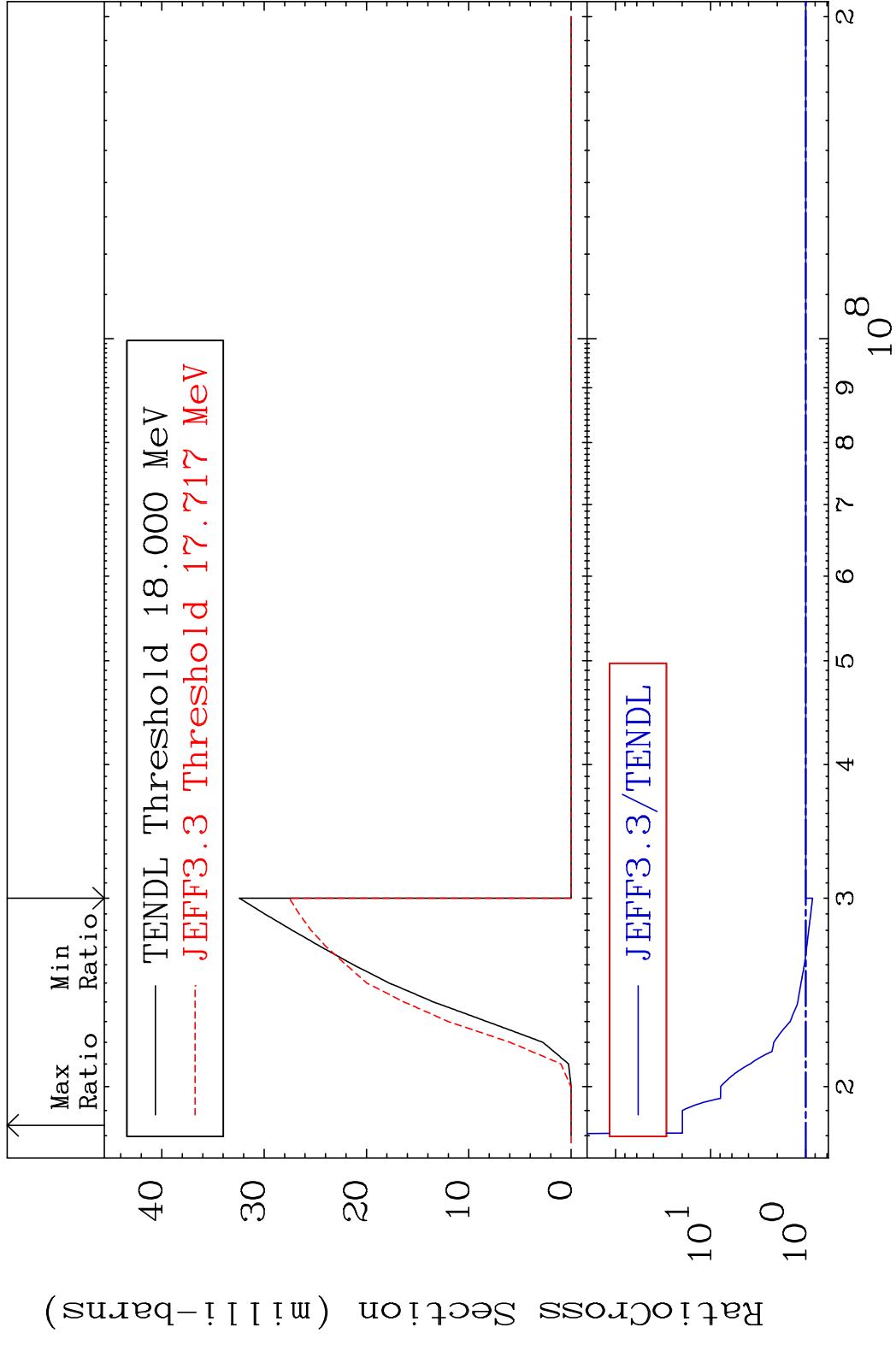
MAT 3919 (n, n') He-3:37-Rb-84g 39-Y -87
 Radionuclide Production Cross Section 1746. %



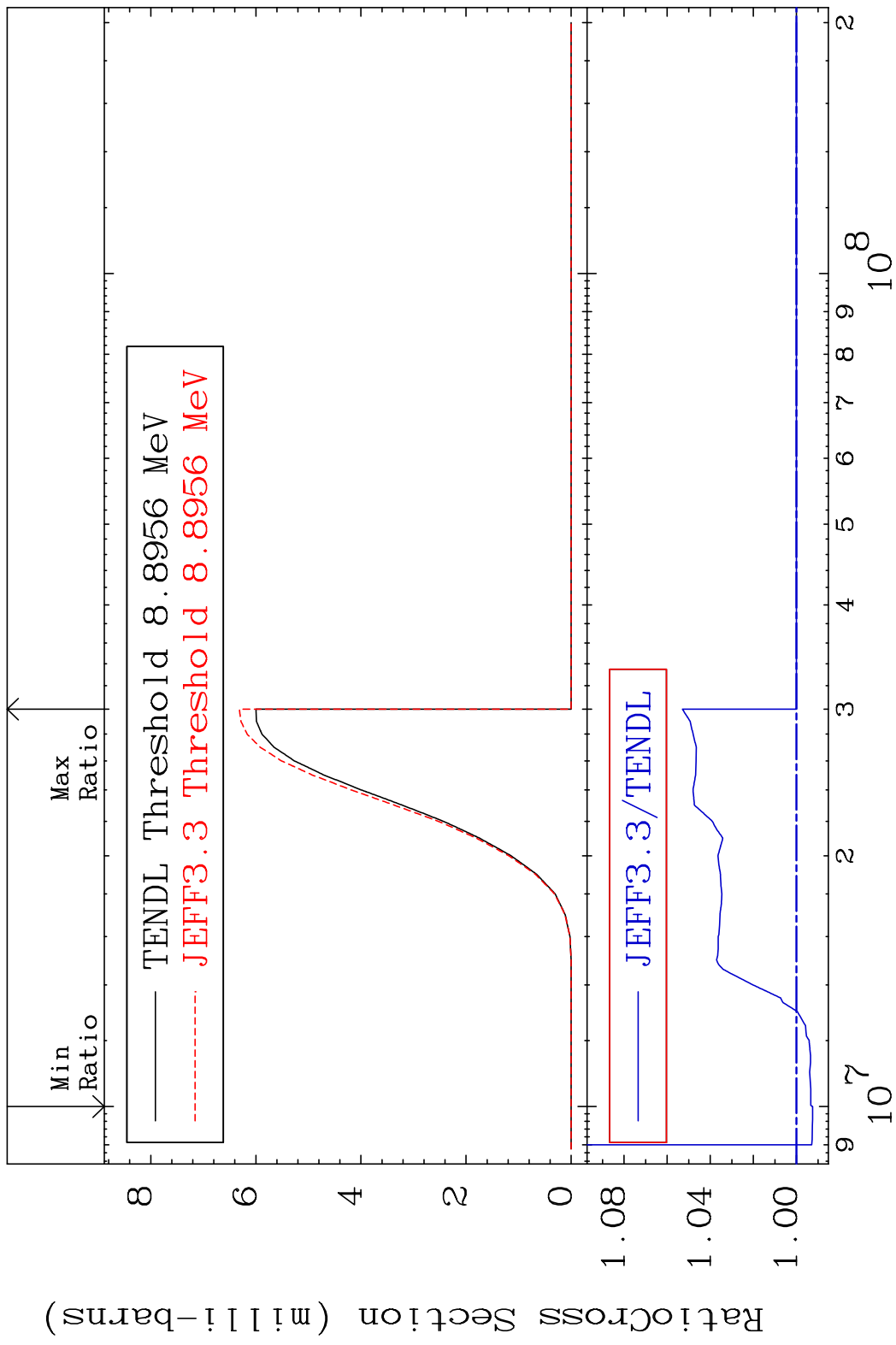


MAT 3919 (n,2n) p:38-Sr-85g 39-Y -87
 Radionuclide Production Cross Section Ratio



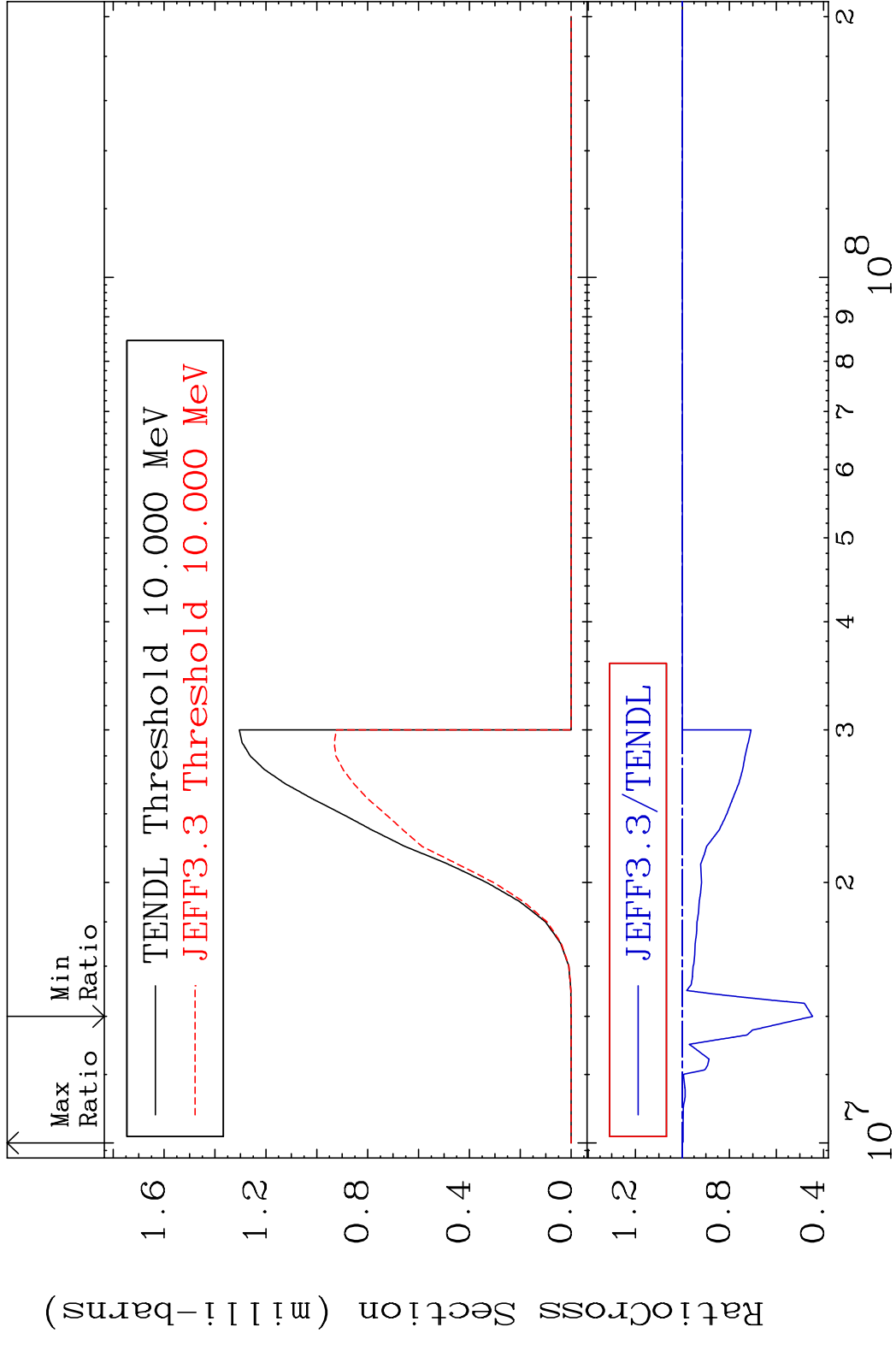


MAT 3919 (n, t):38-Sr-85g 39-Y -87
 Radionuclide Production Cross-Section 5.297 %

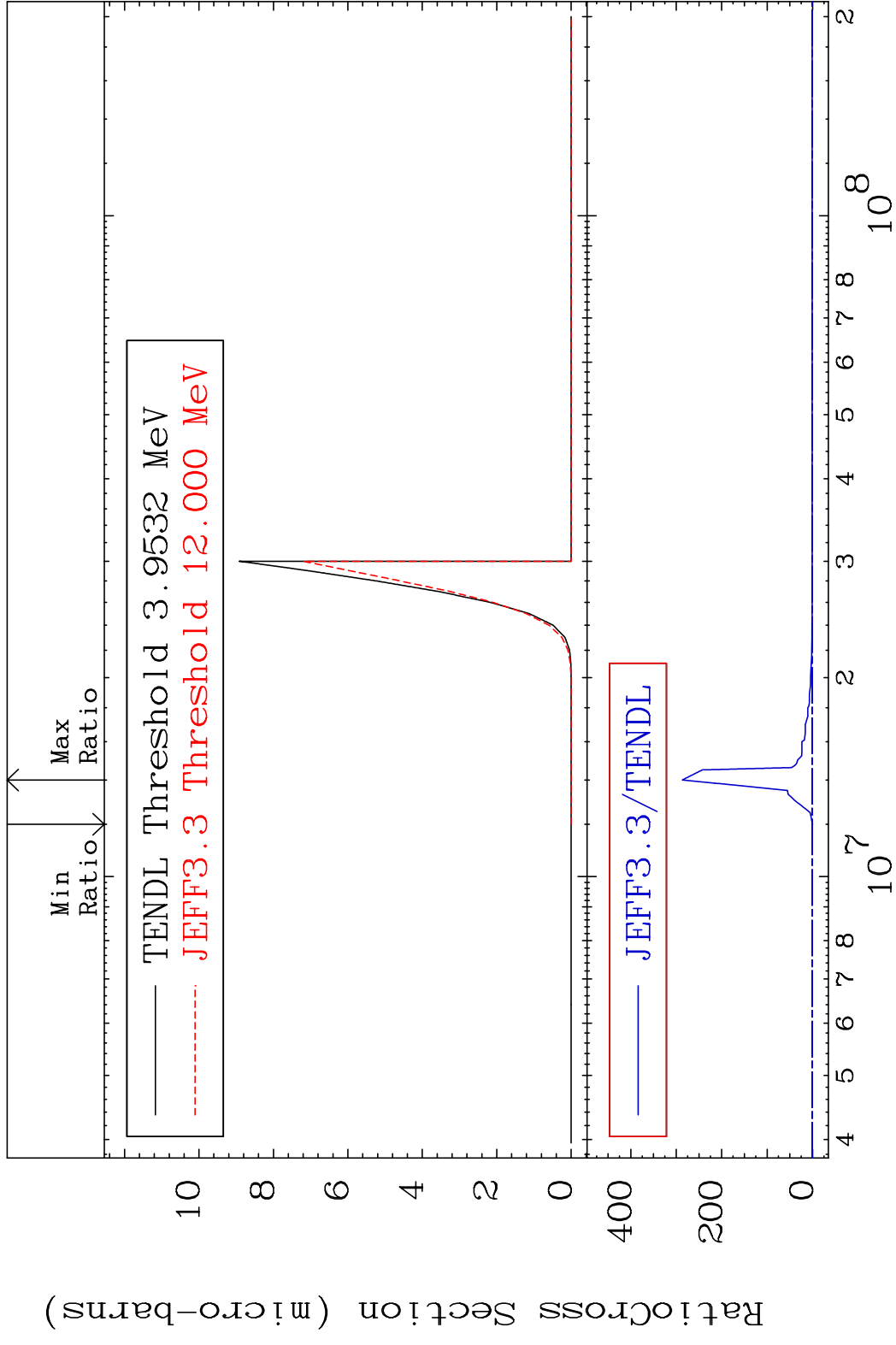


94 Incident Energy (eV) 39-Y -87

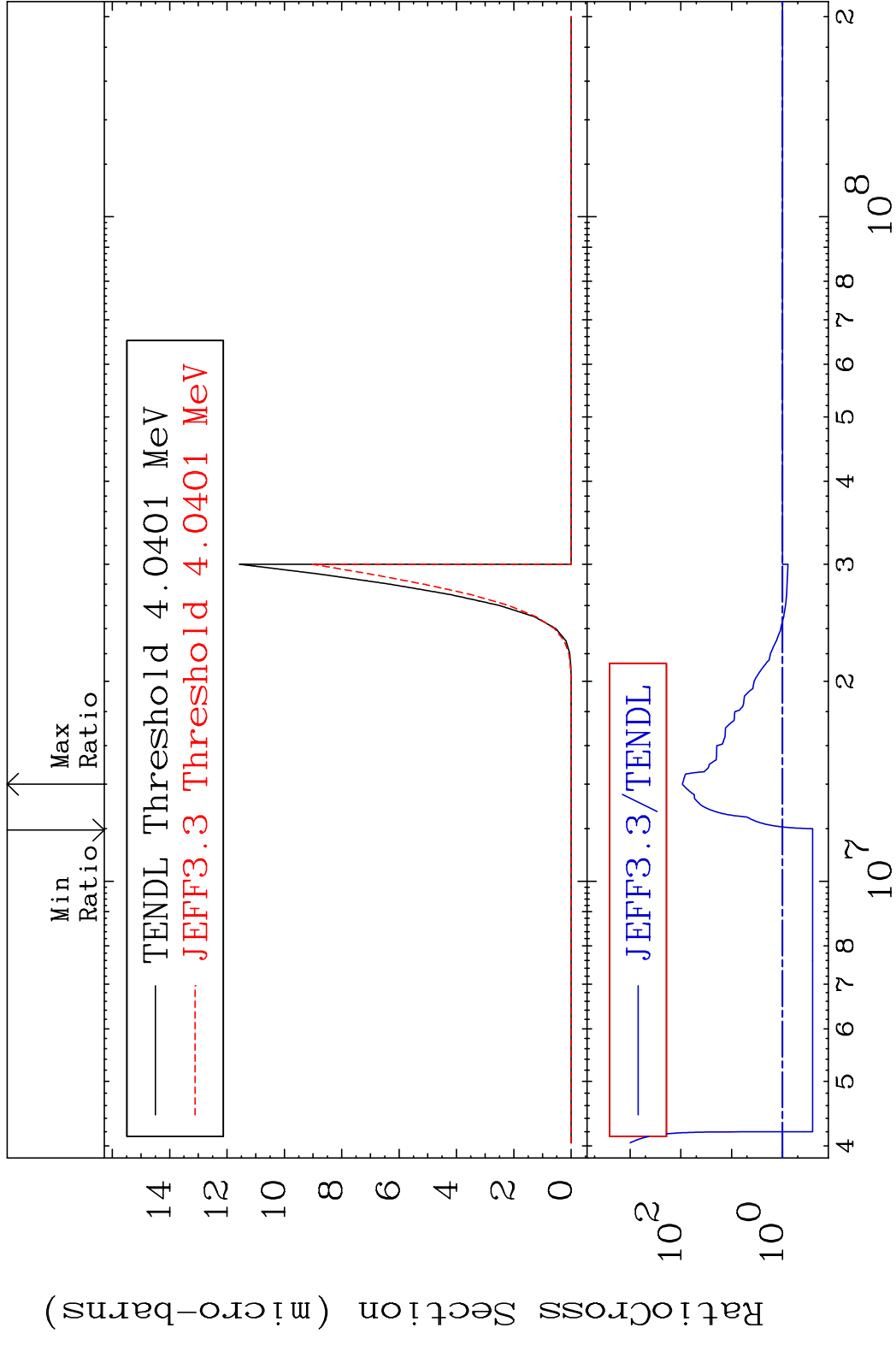
MAT 3919 (n,t):38-Sr-85m2 39-Y -87
 Radionuclide Production Cross Section 0.000 %



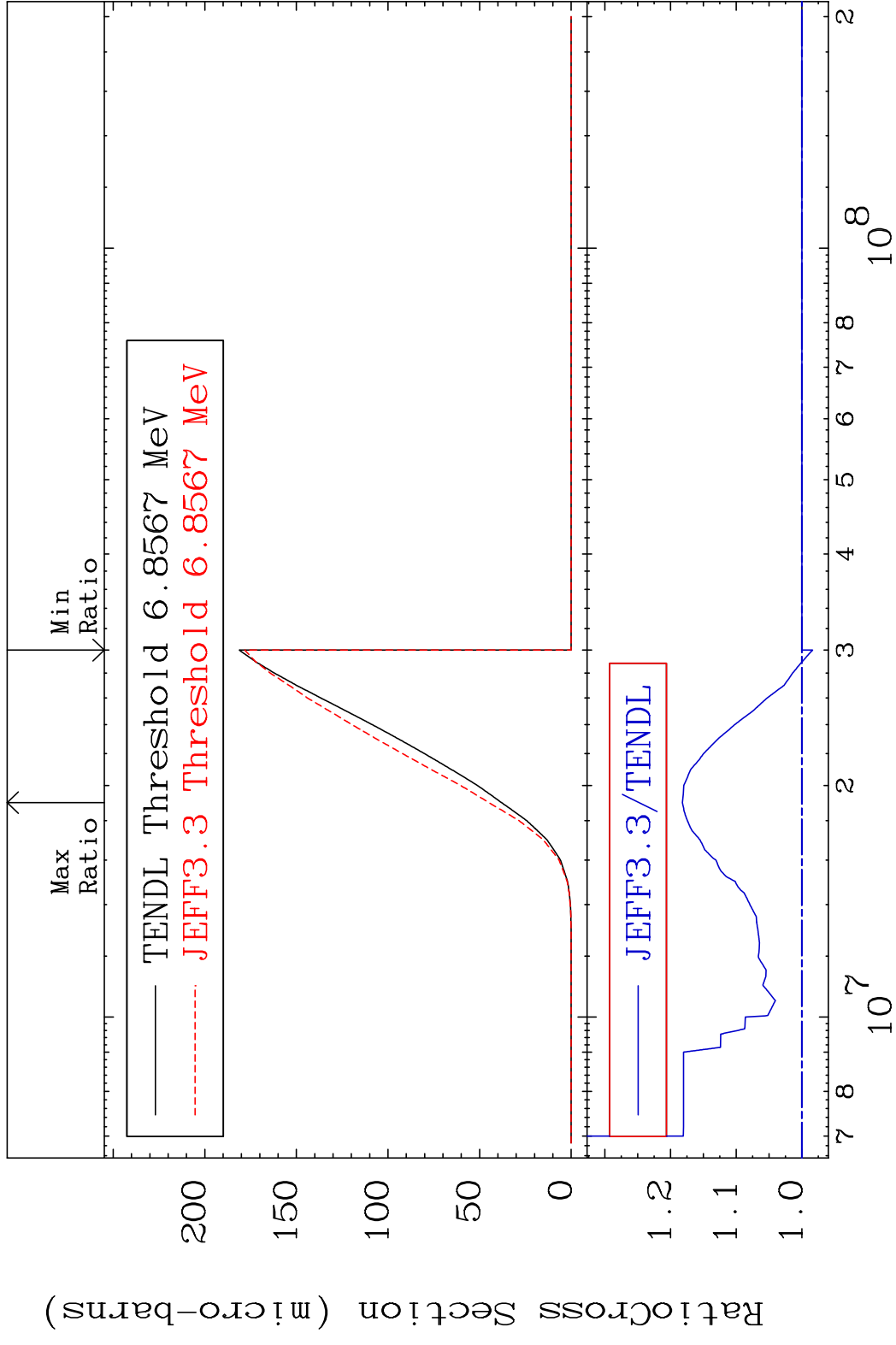
95 Incident Energy (eV) 39-Y -87



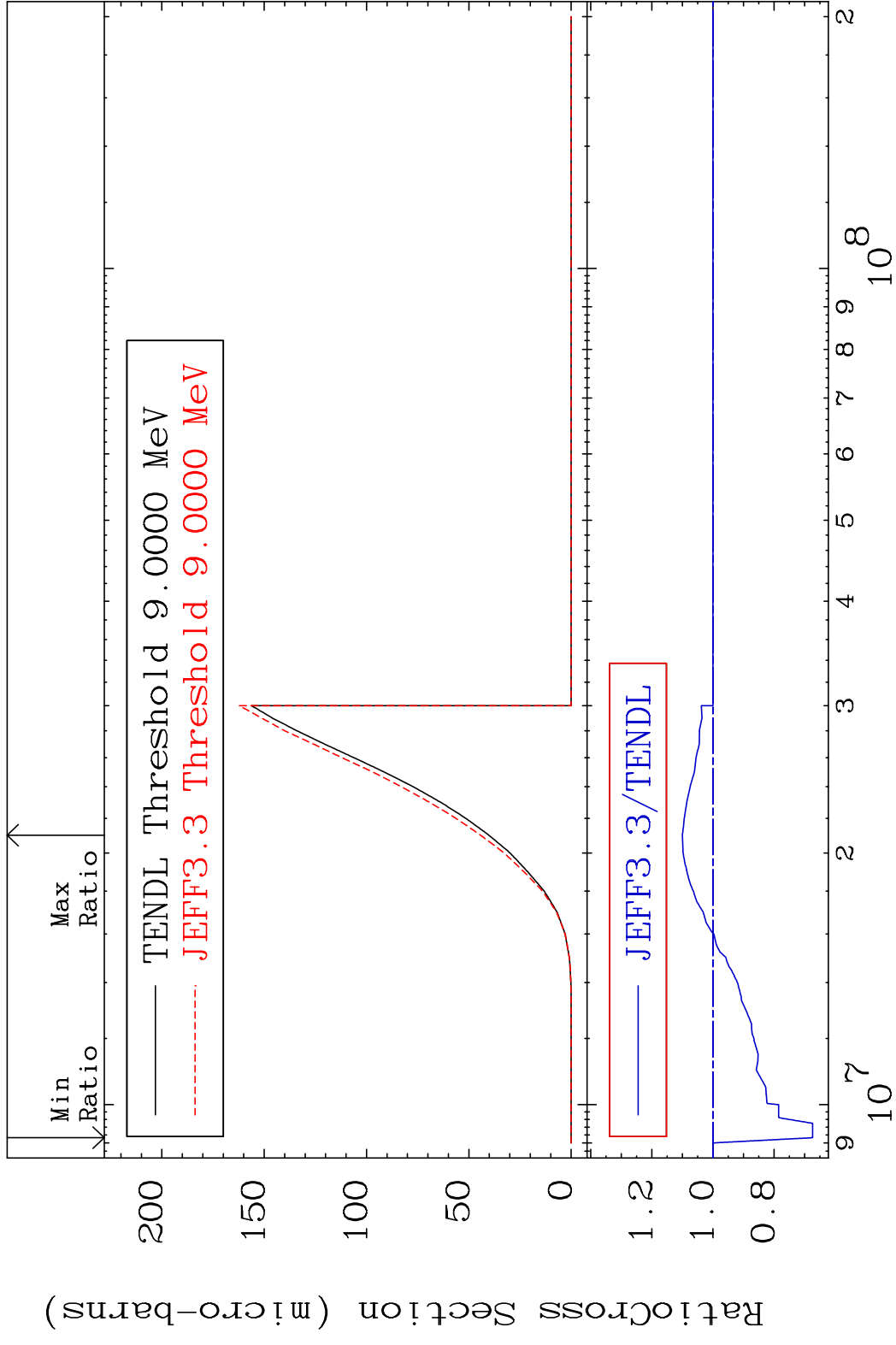
MAT 3919 (n,2α):35-Br-80m2 39-Y -87
 Radionuclide Production Cross Section 9264. %



MAT 3919 (n,2p):37-Rb-86g 39-Y -87
 Radionuclide Production Cross Section 18.21 %

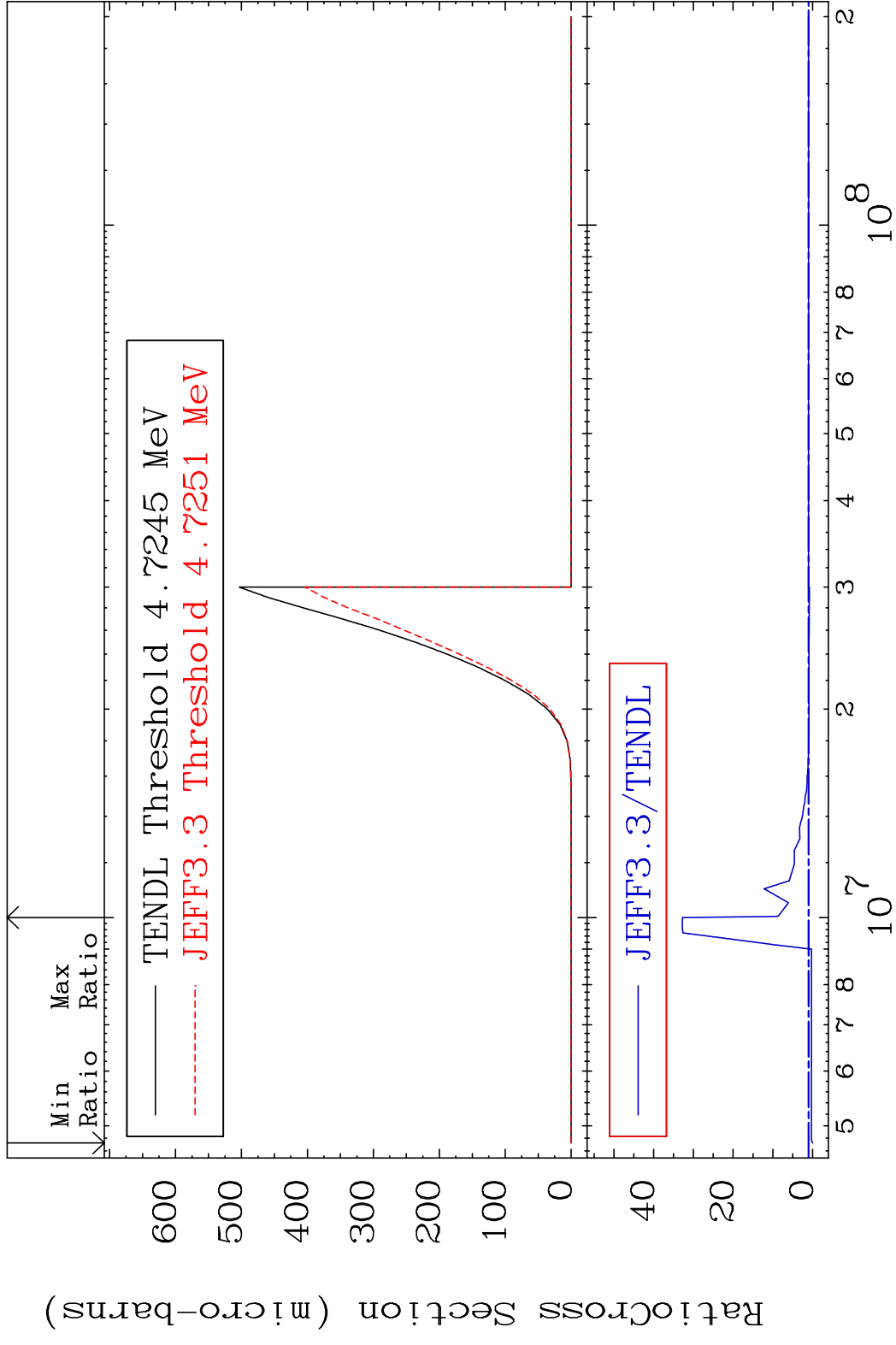


MAT 3919 (n,2p):37-Rb-86m2 39-Y -87
 Radionuclide Production Cross Section 10.00 %



99 39-Y -87

MAT 3919 (n, p) α :36-Kr-83g 39-Y -87
 Radionuclide Production Cross Section 1800 d to 3178. %



100 Incident Energy (eV) 39-Y -87

MAT 3919 (n,p) α :36-Kr-83m2 39-Y -87
 Radionuclide Production Cross Section Ratio 3058. %

