

Program Complot
(Version 2021-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

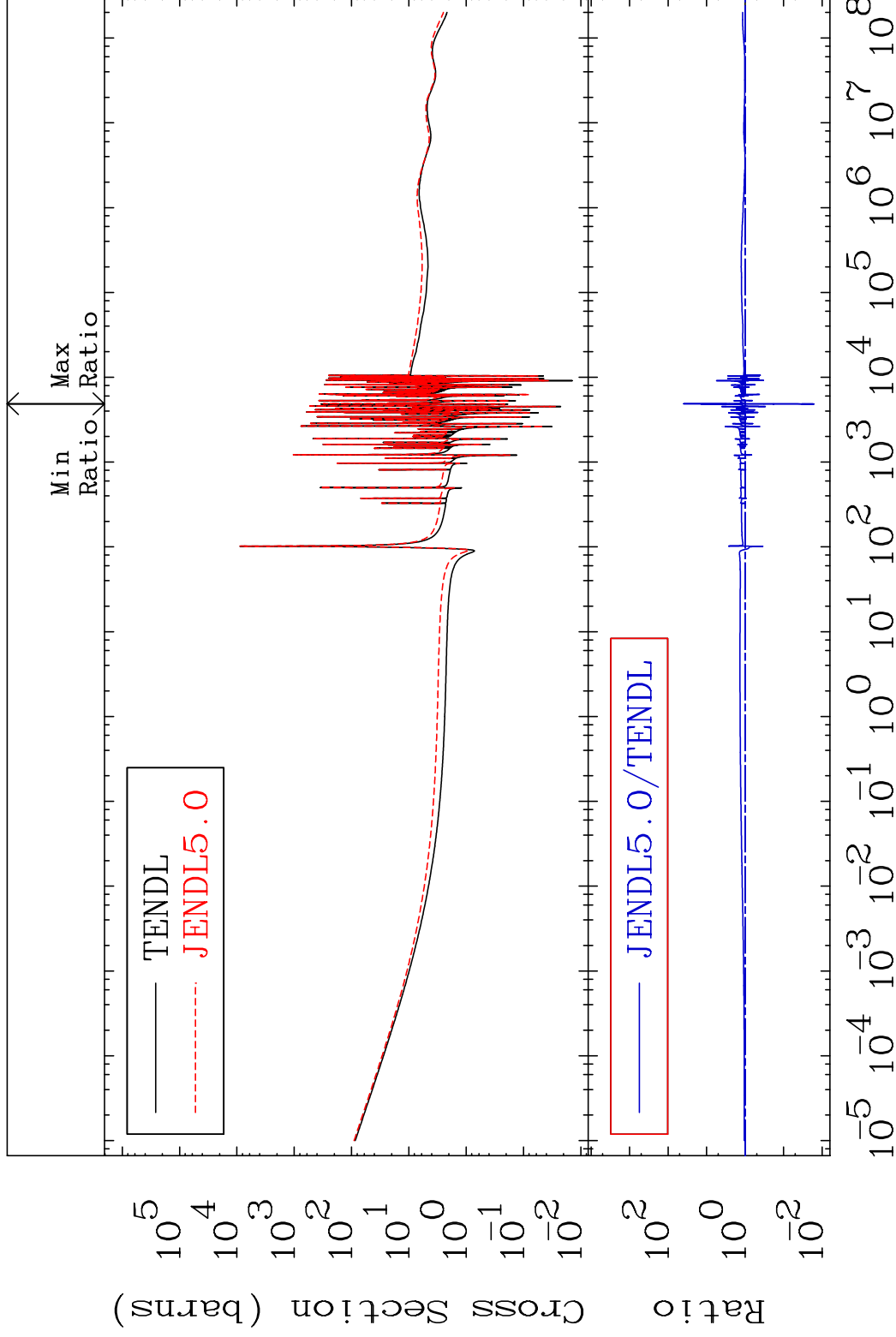
MAT 5637

Total

56-Ba-134

Cross Section

-98.38 To 3844. %



1

Incident Energy (eV)

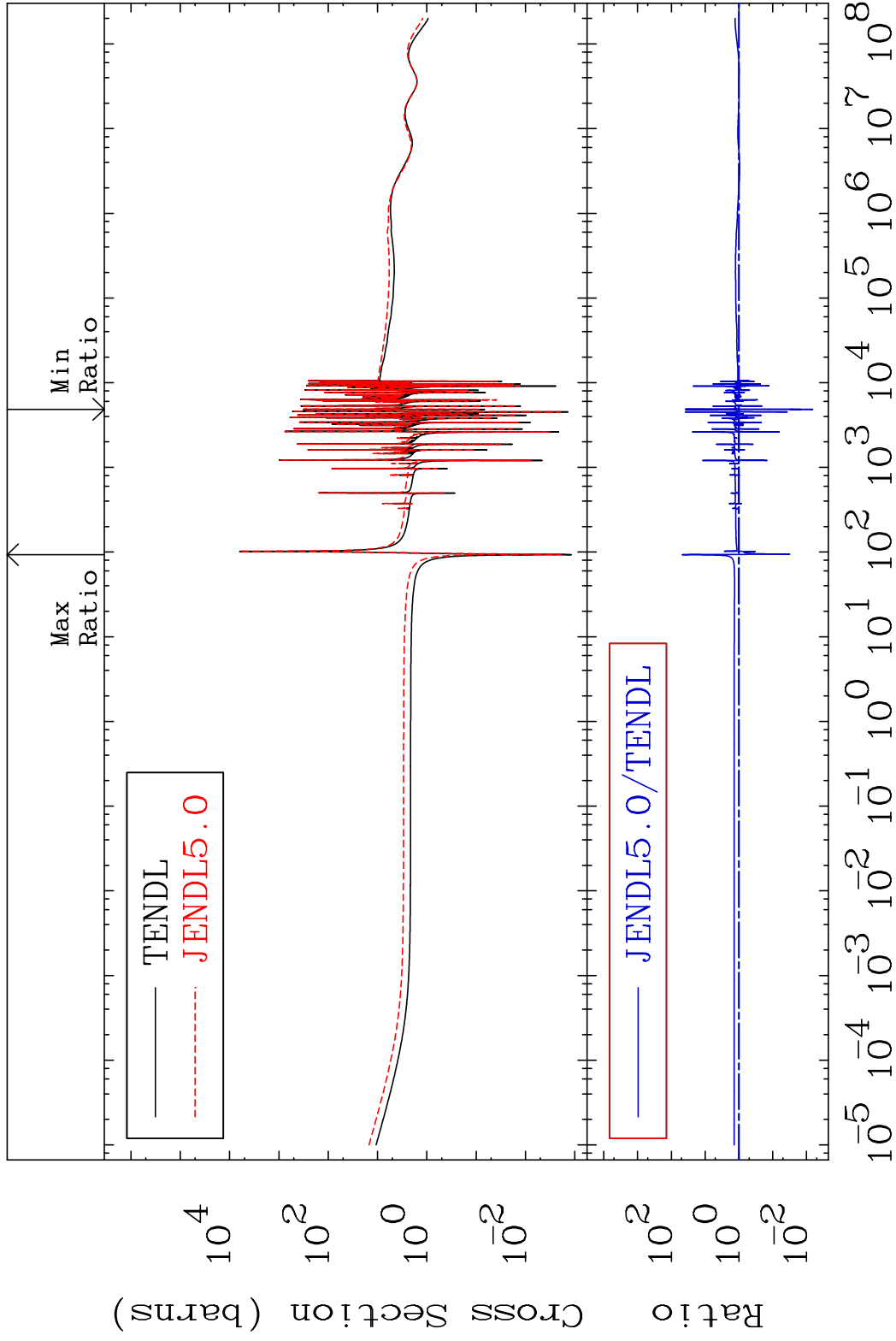
56-Ba-134

MAT 5637

Elastic

56-Ba-134

Cross Section -99.34 To 4621. %



2

Incident Energy (eV)

56-Ba-134

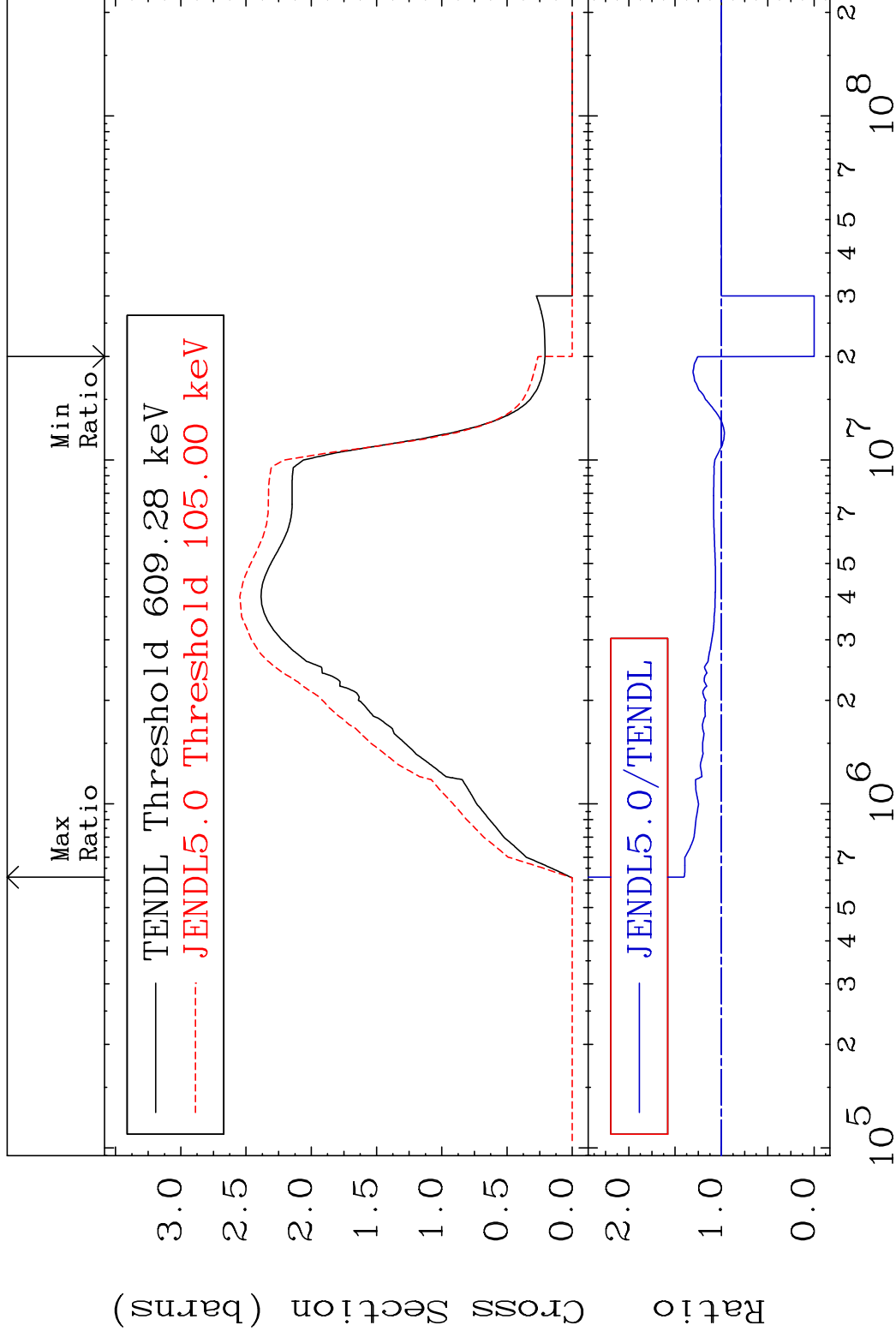
MAT 5637

Inelastic

56-Ba-134

Cross Section

-100.0 To 40.77 %



3

Incident Energy (eV)

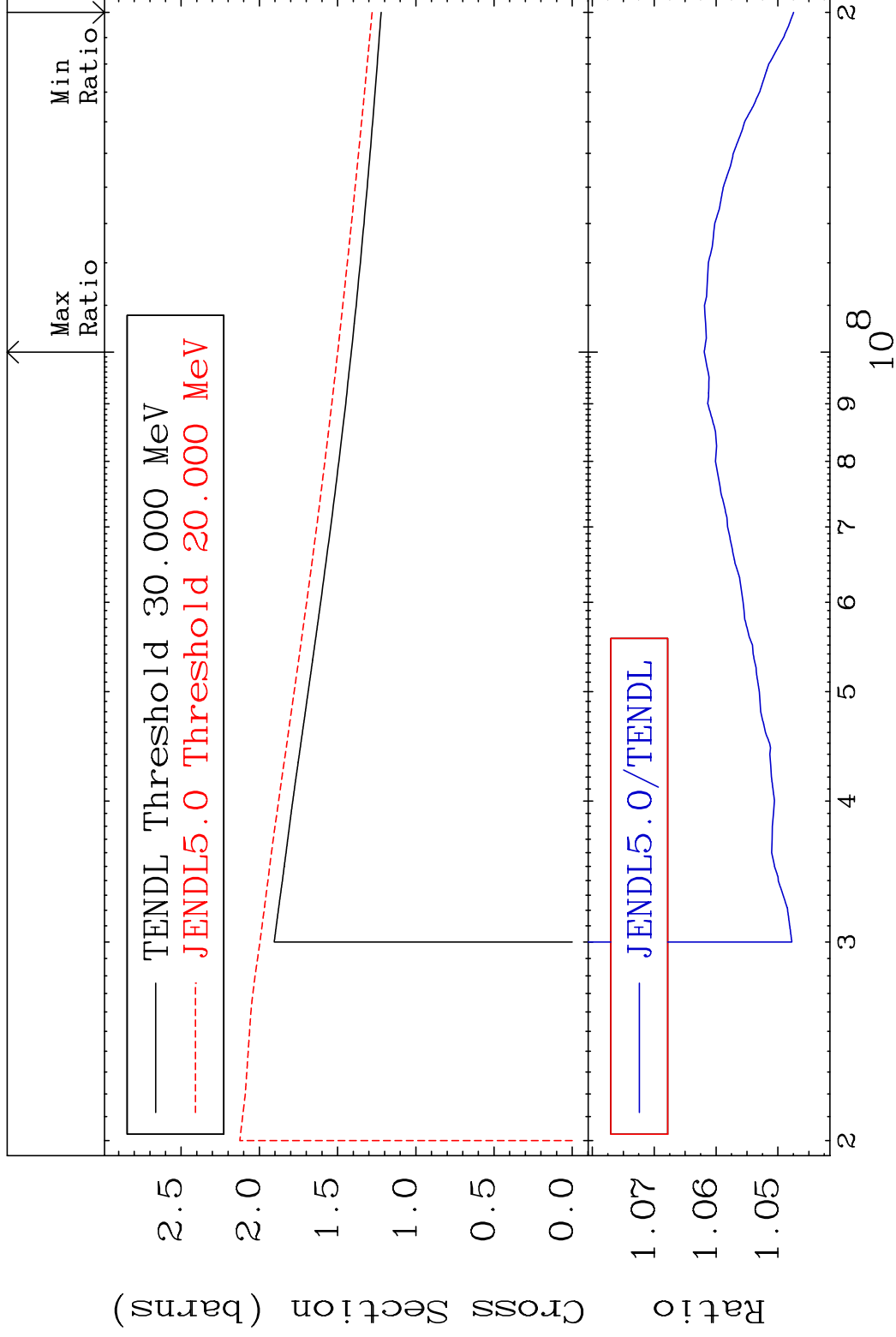
56-Ba-134

MAT 5637

(n, remainder)

56-Ba-134

Cross Section 4.747 To 6.191 %



4

Incident Energy (eV)

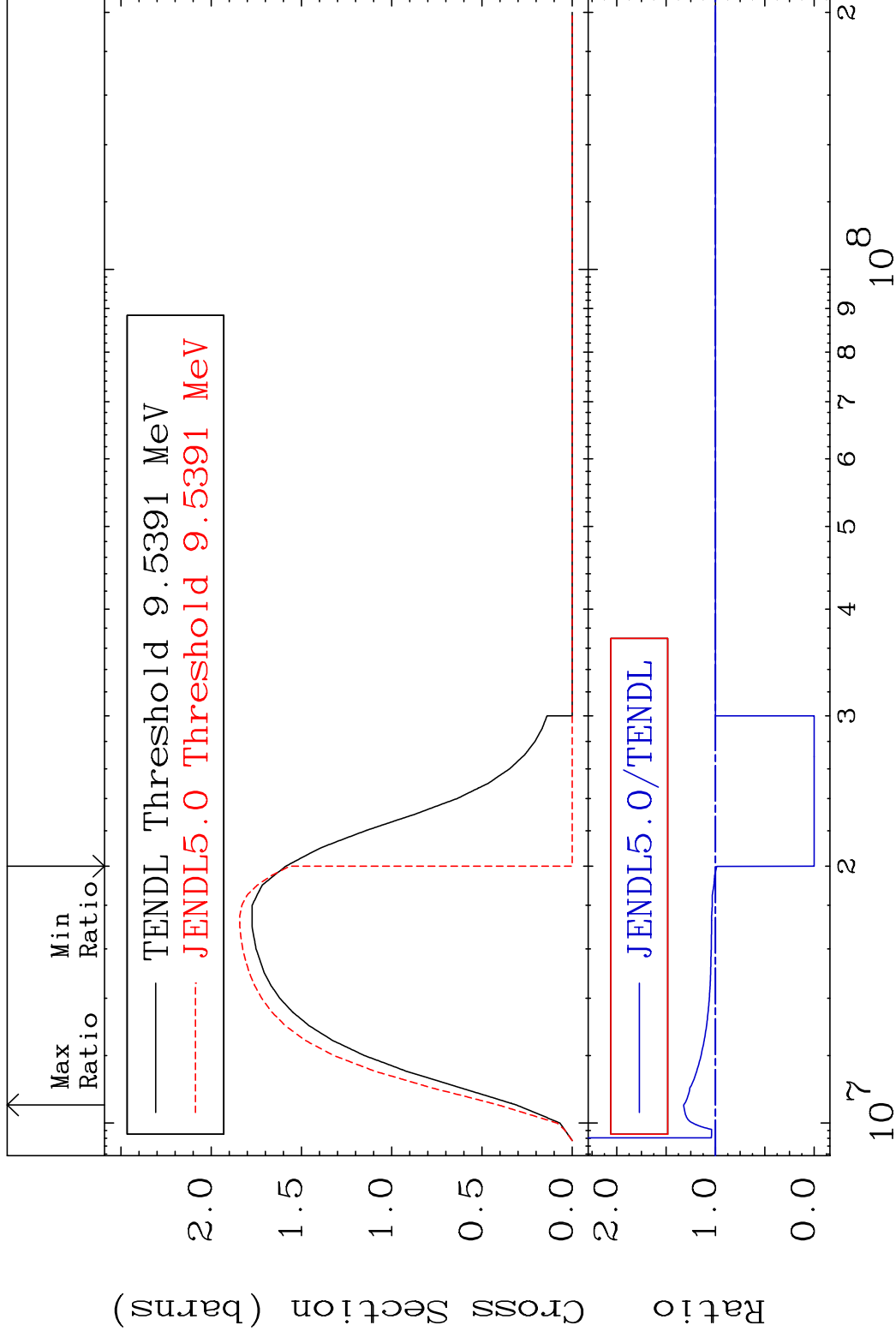
56-Ba-134

MAT 5637

(n,2n)

56-Ba-134

Cross Section -100.0 To 32.22 %



5

Incident Energy (eV)

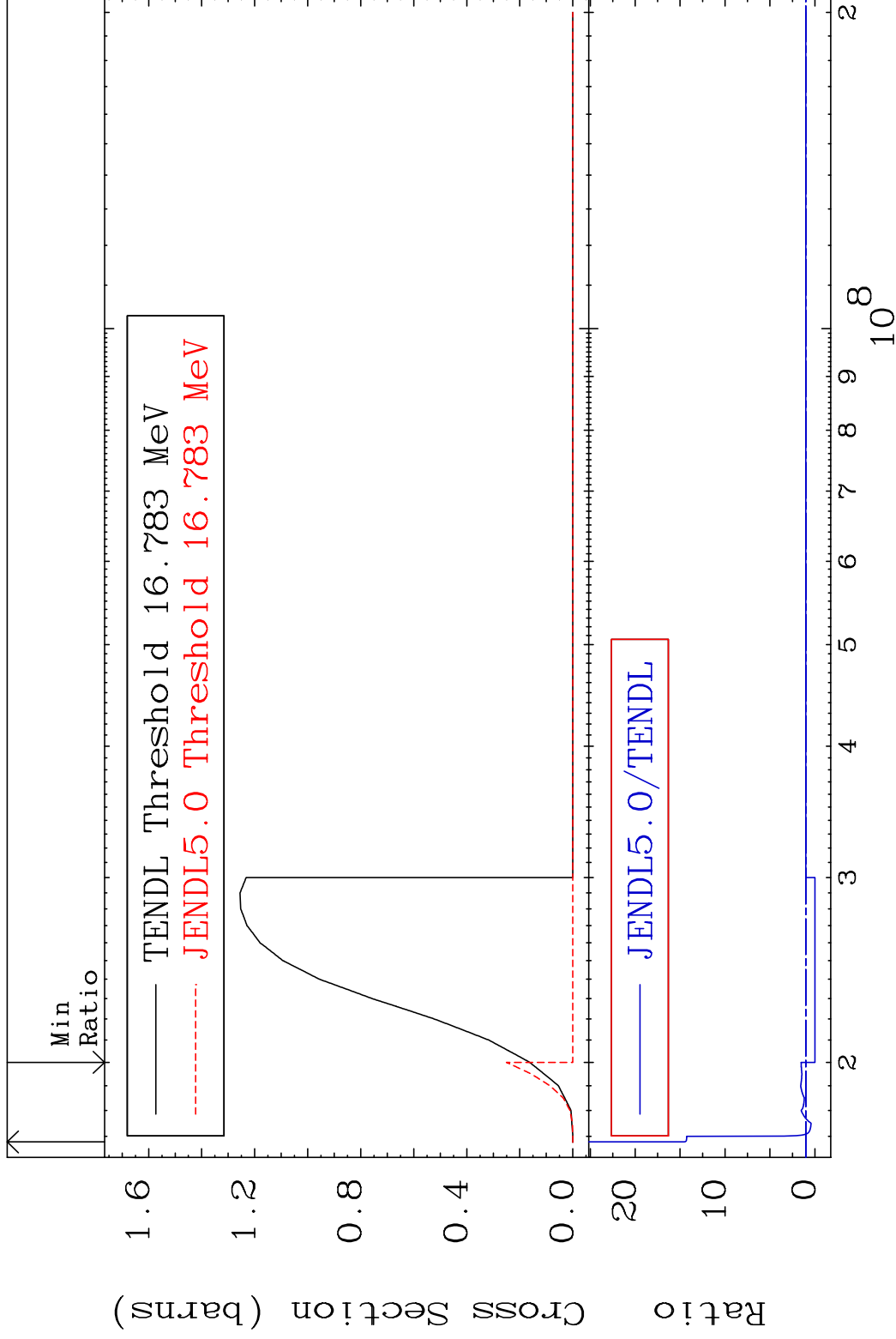
56-Ba-134

MAT 5637

(n,3n)

56-Ba-134

Cross Section -100.0 To 1353. %



6

Incident Energy (eV)

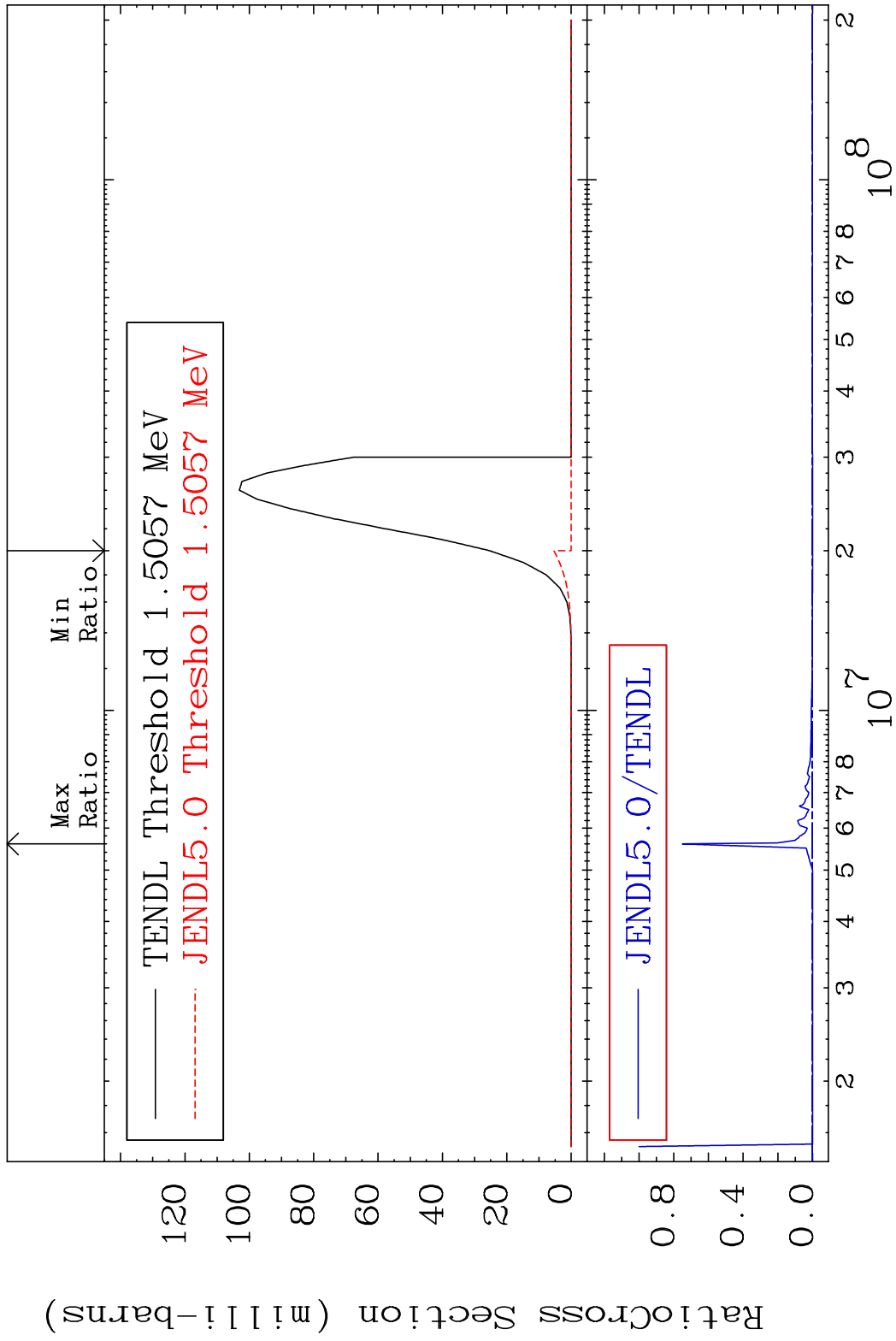
56-Ba-134

MAT 5637

(n, n') α

56-Ba-134

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

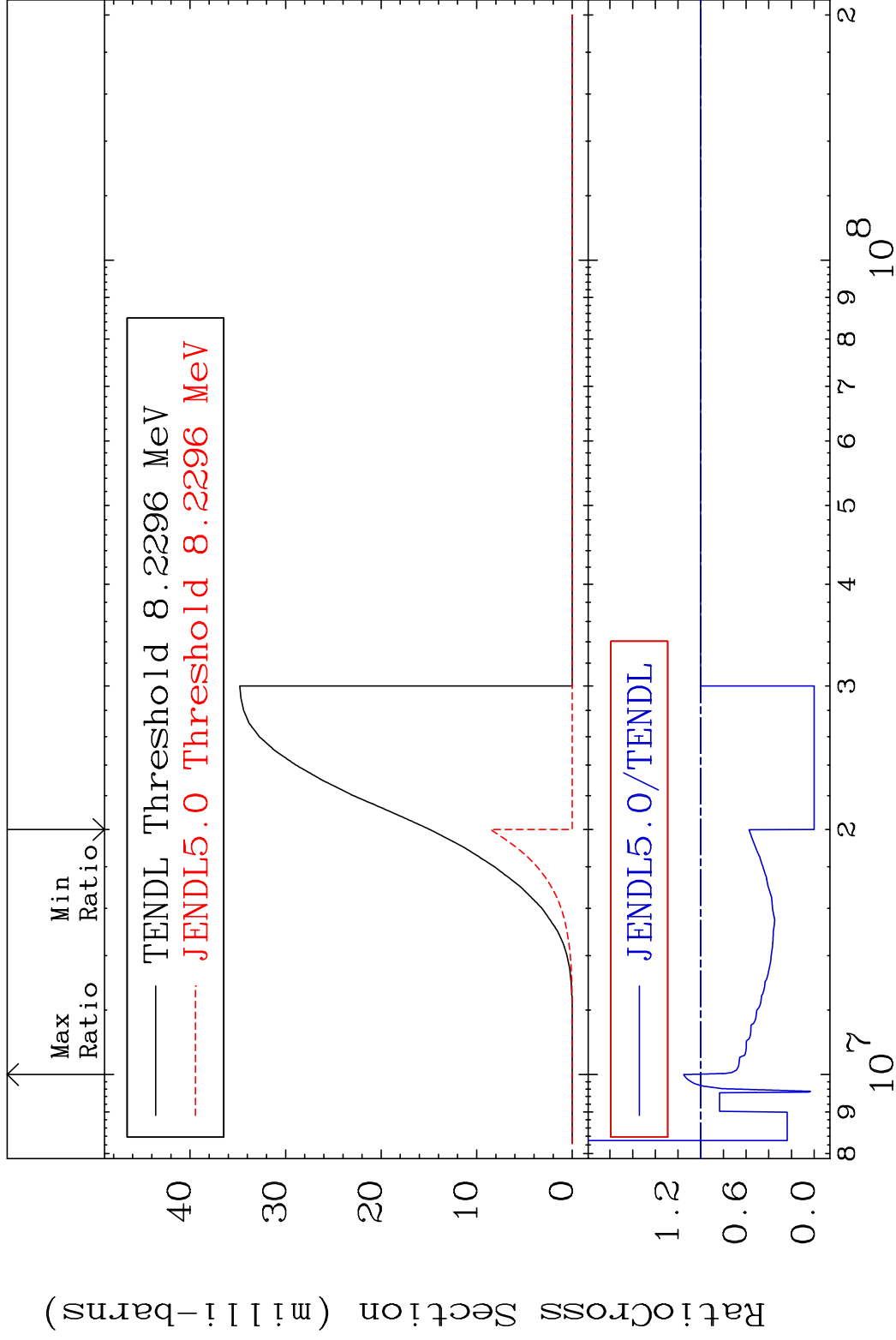
56-Ba-134

MAT 5637

(n, n') p

56-Ba-134

Cross Section -100.0 To 15.02 %



8

Incident Energy (eV)

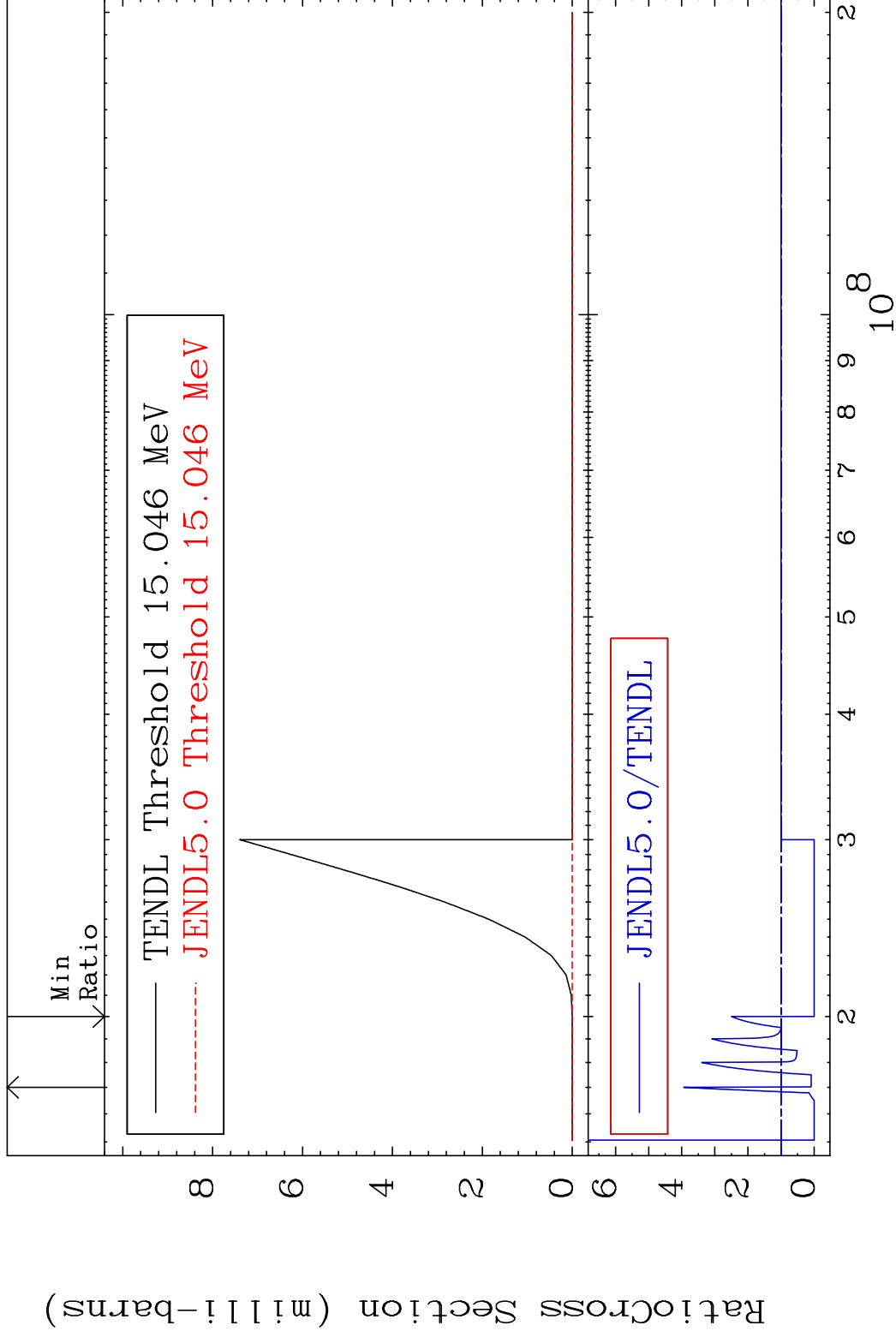
56-Ba-134

MAT 5637

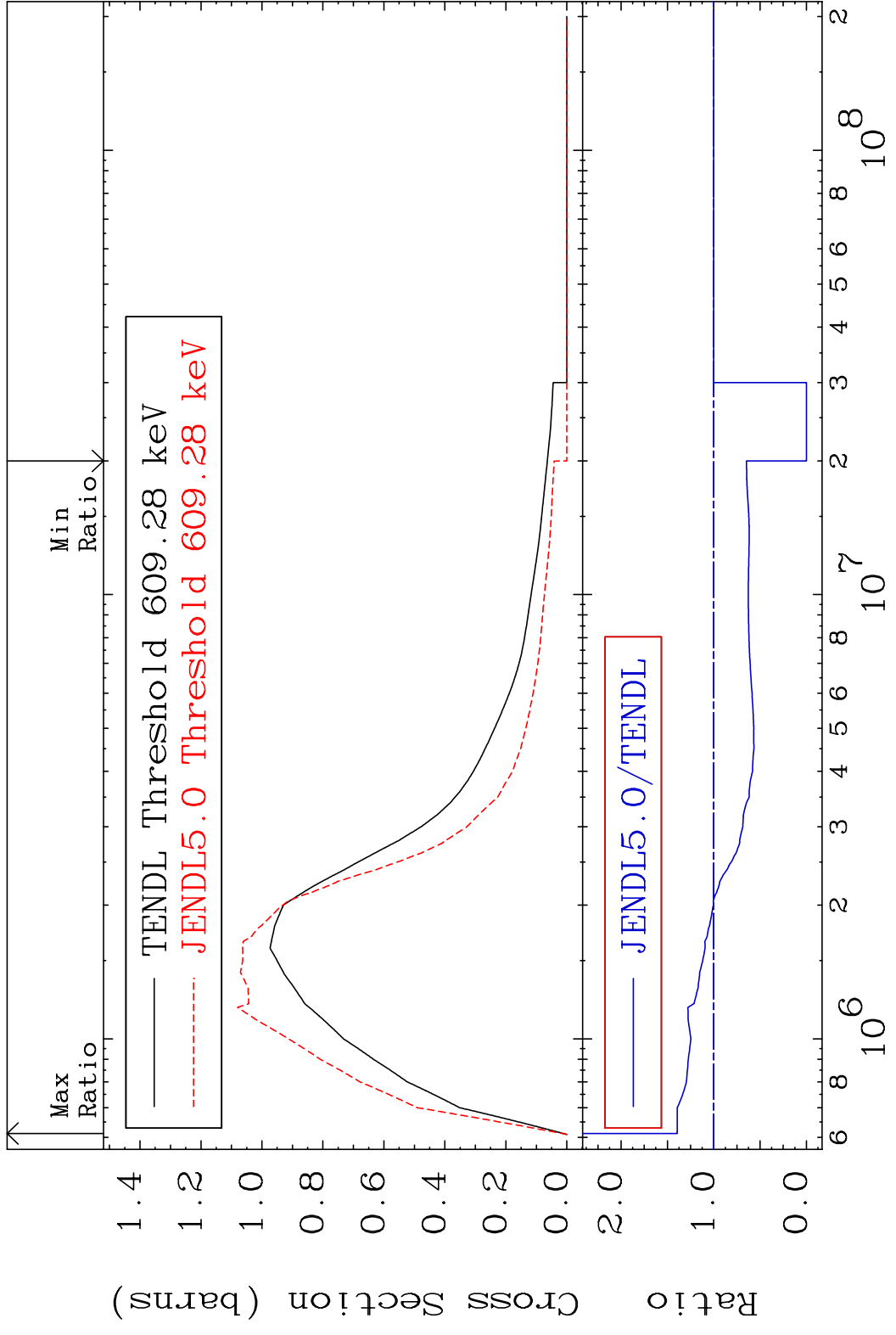
(n, n') d

56-Ba-134

Cross Section -100.0 To 294.2 %

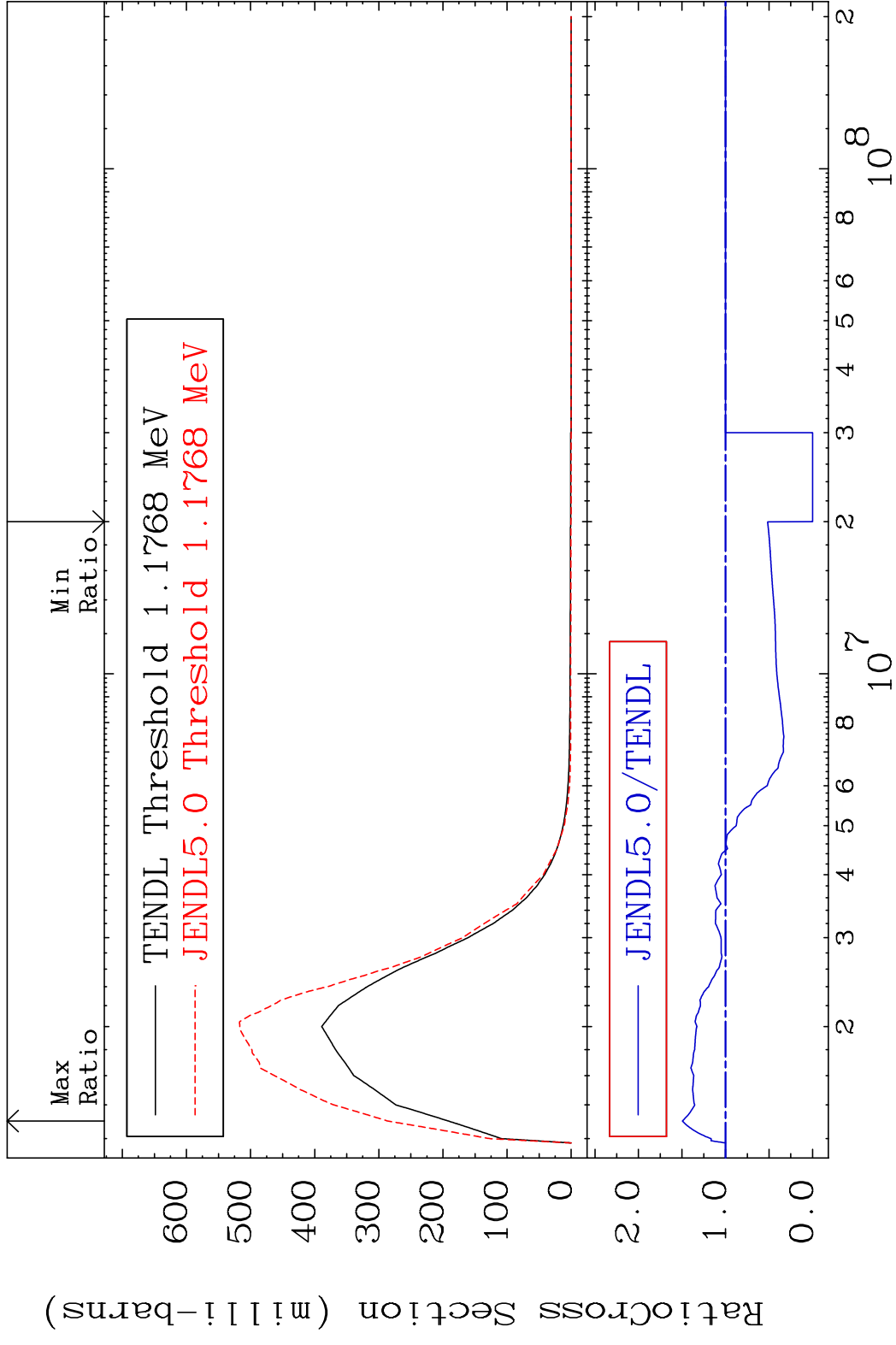


MAT 5637 MT= 51 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 39.45 %

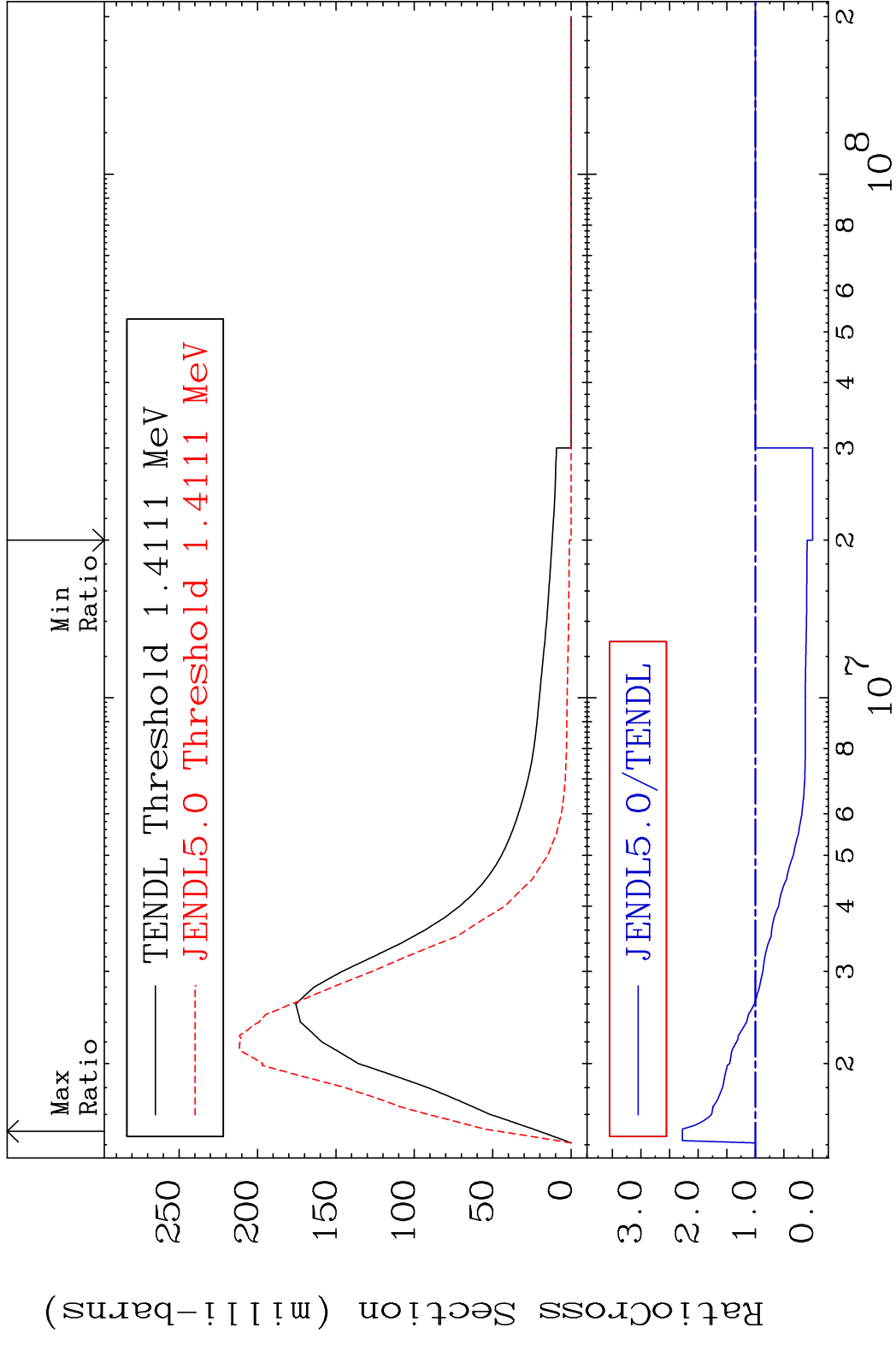


10 Incident Energy (eV) 56-Ba-134

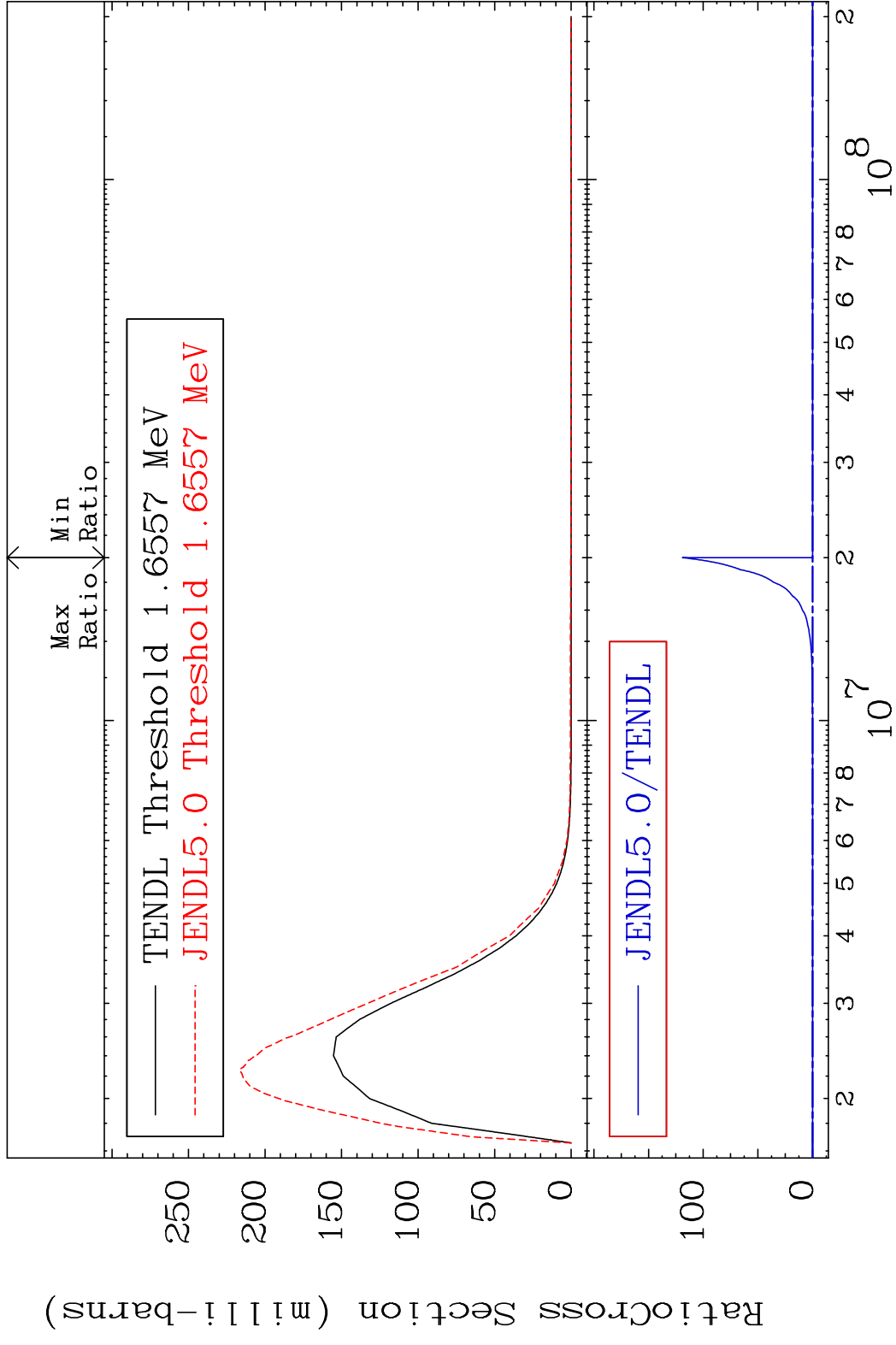
MAT 5637 MT= 52 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 49.59 %



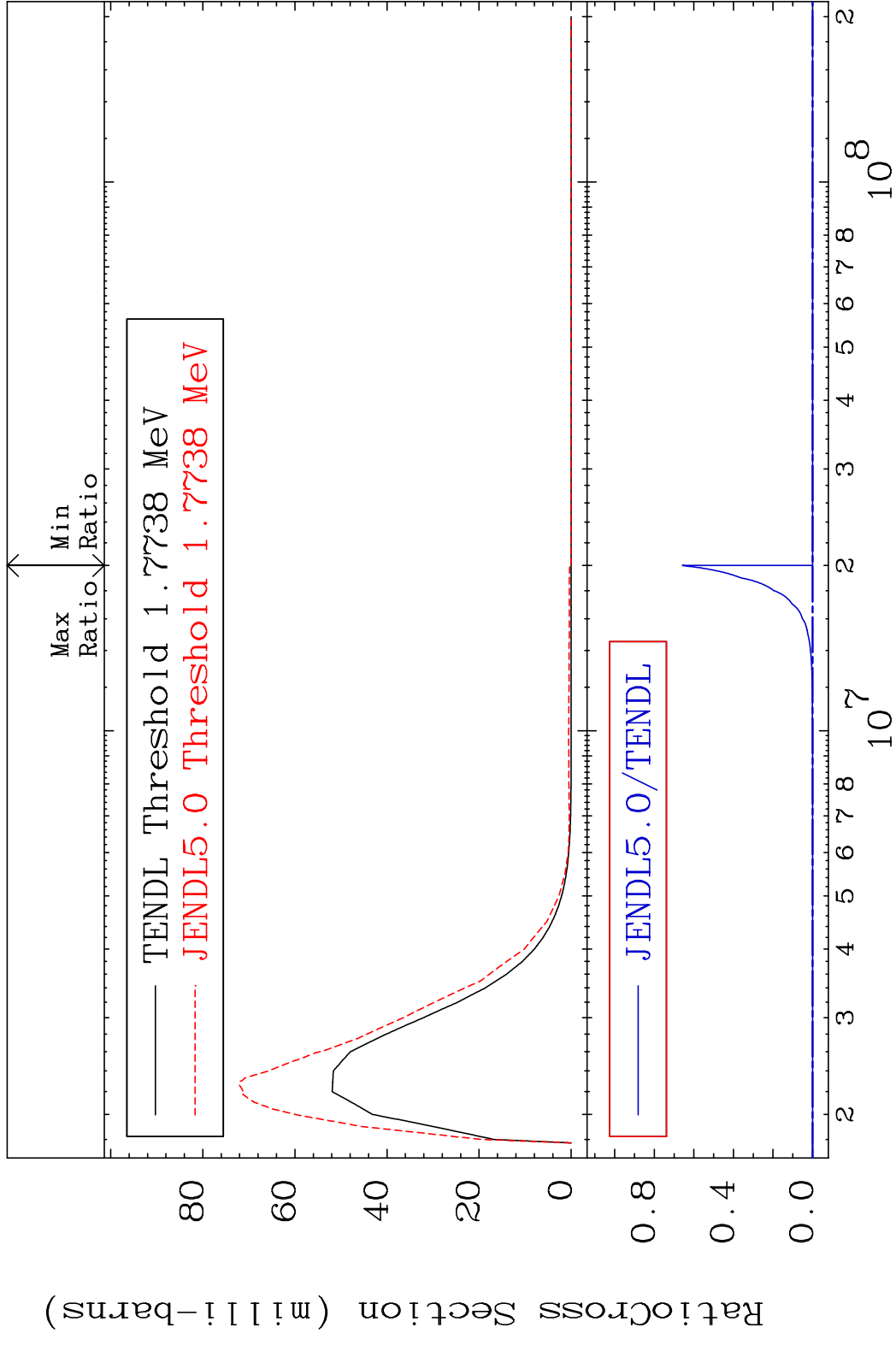
MAT 5637 MT= 53 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 127.6 %



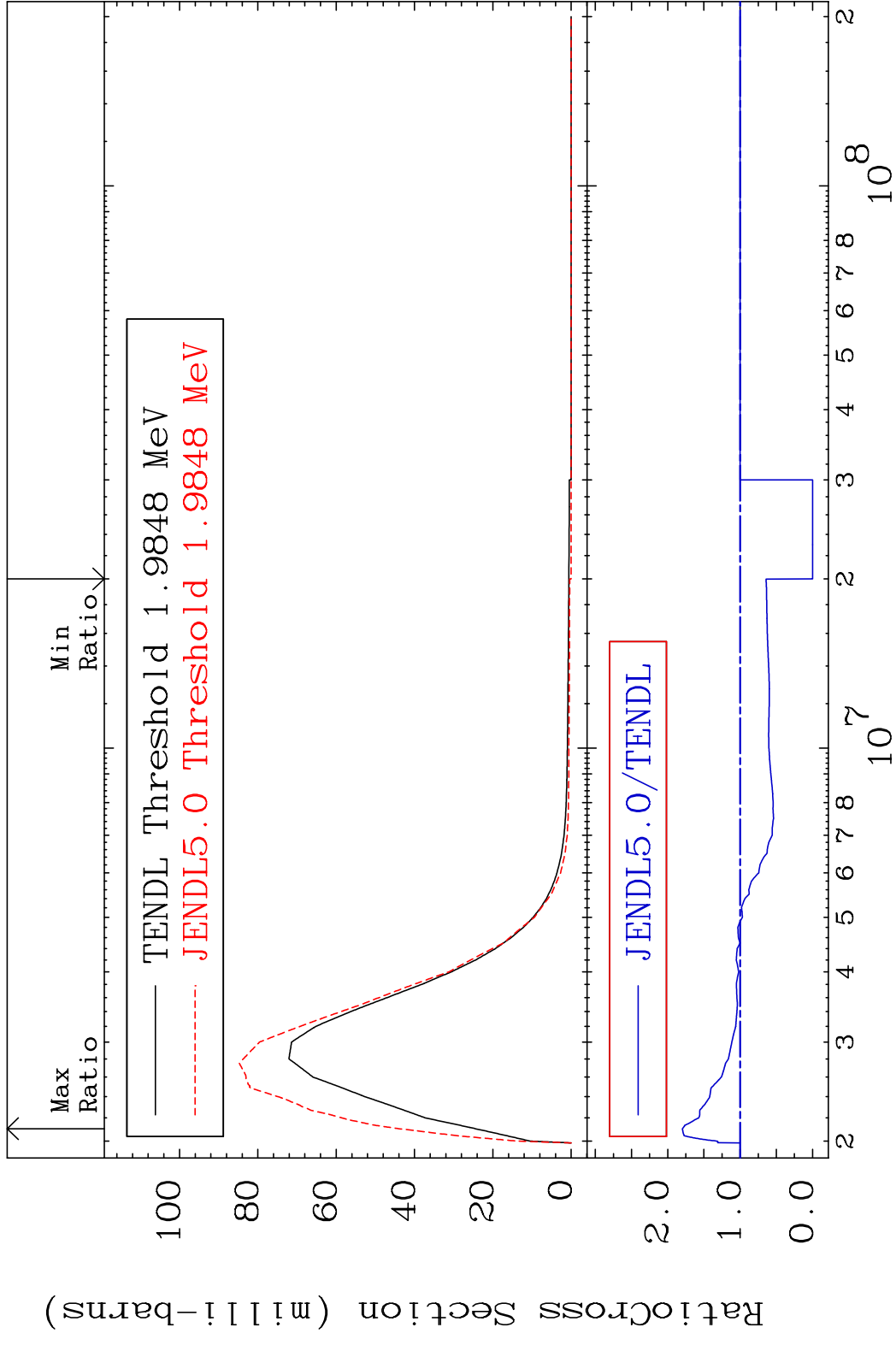
MAT 5637 MT= 54 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



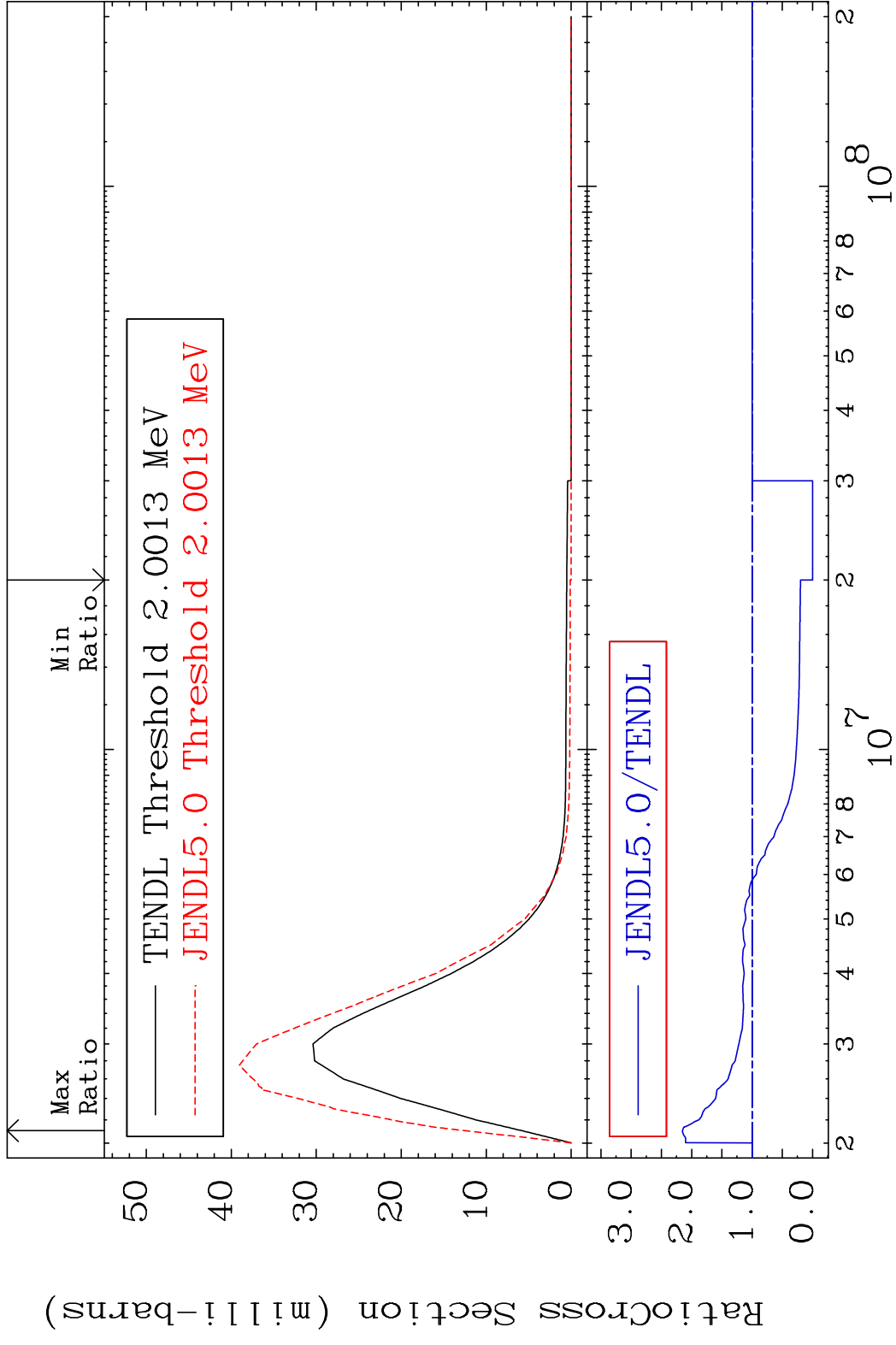
MAT 5637 MT= 55 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



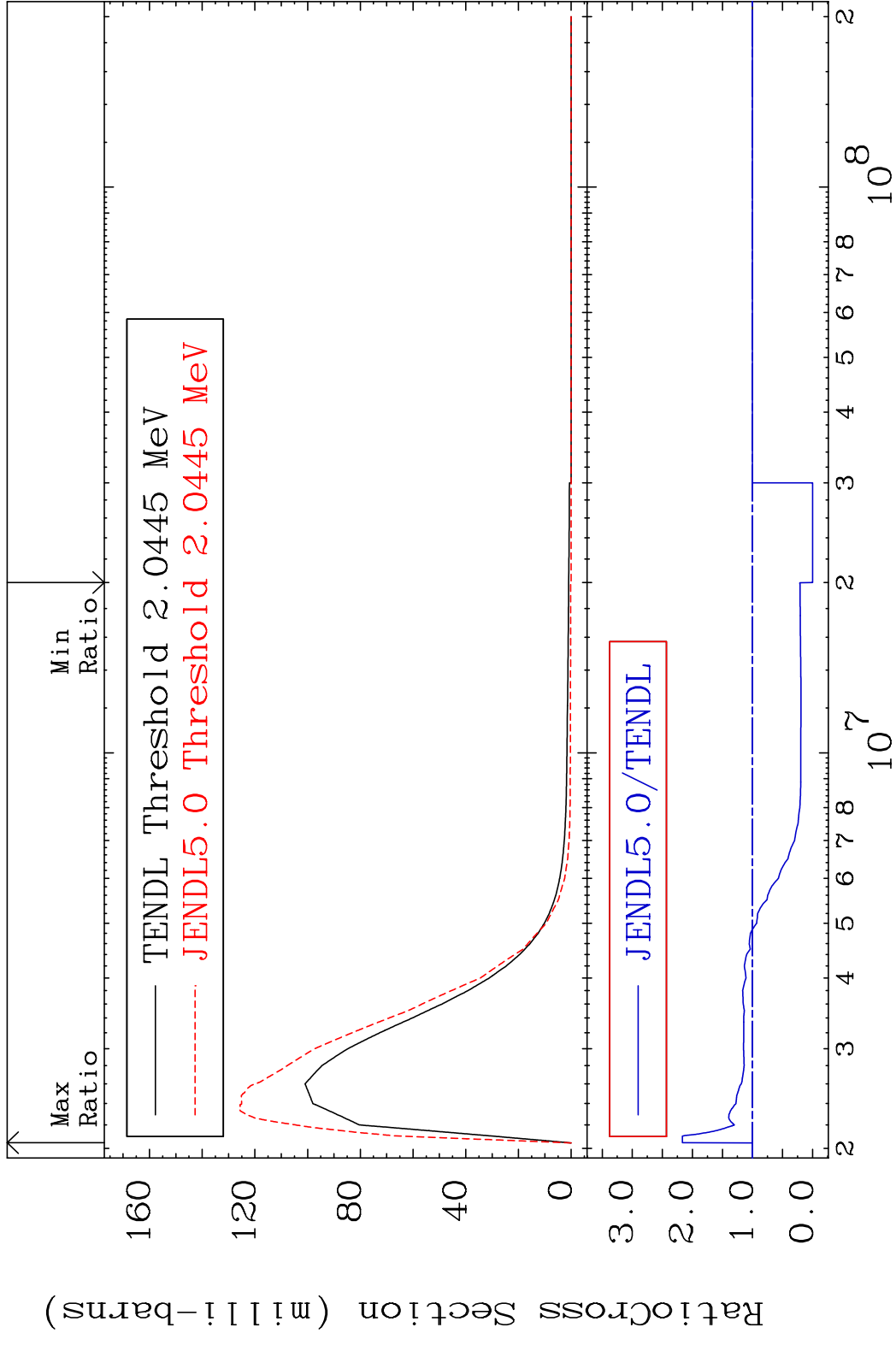
MAT 5637 MT= 56 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 79.81 %



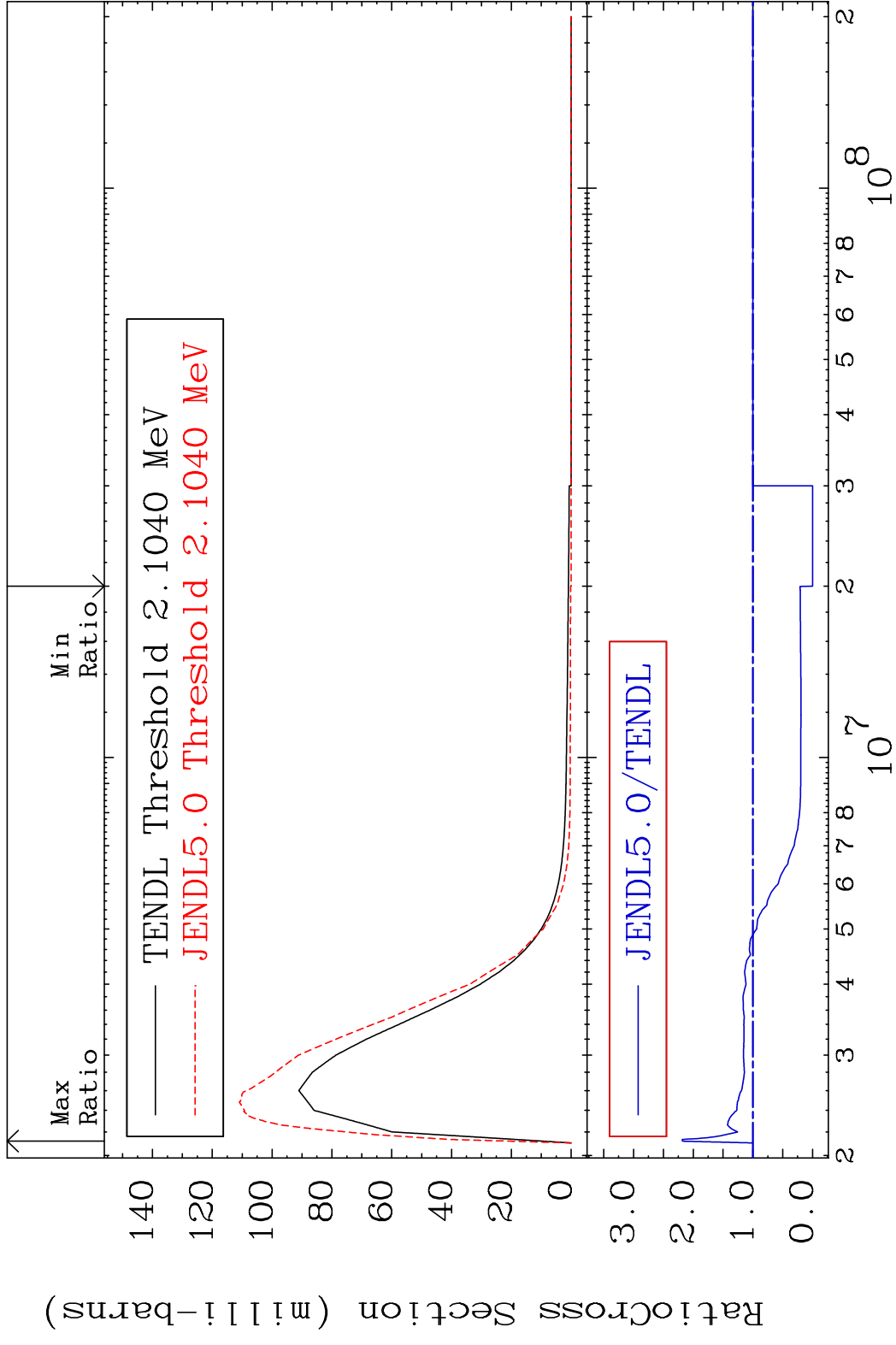
MAT 5637 MT= 57 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 115.3 %



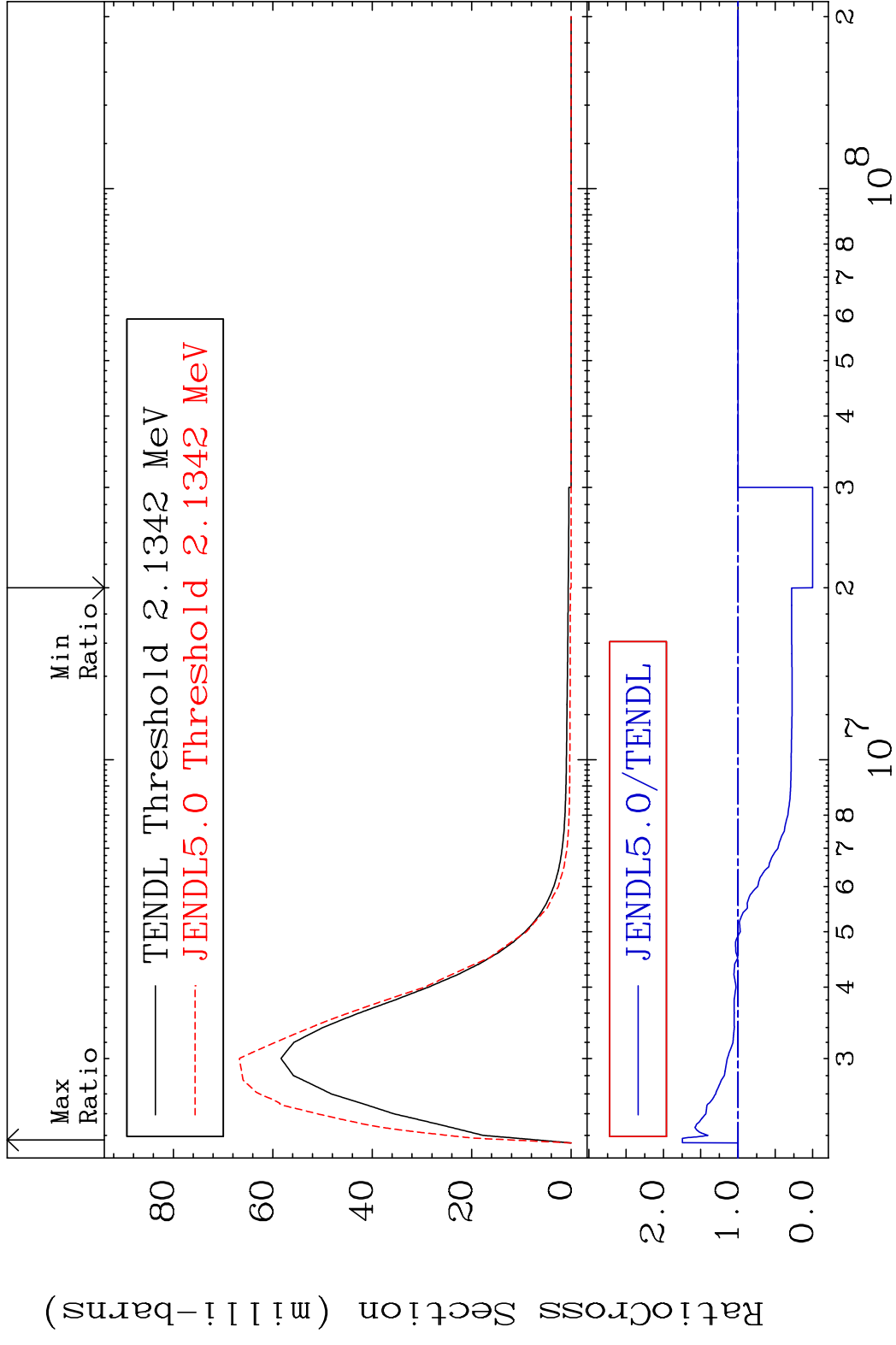
MAT 5637 MT= 58 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 116.7 %



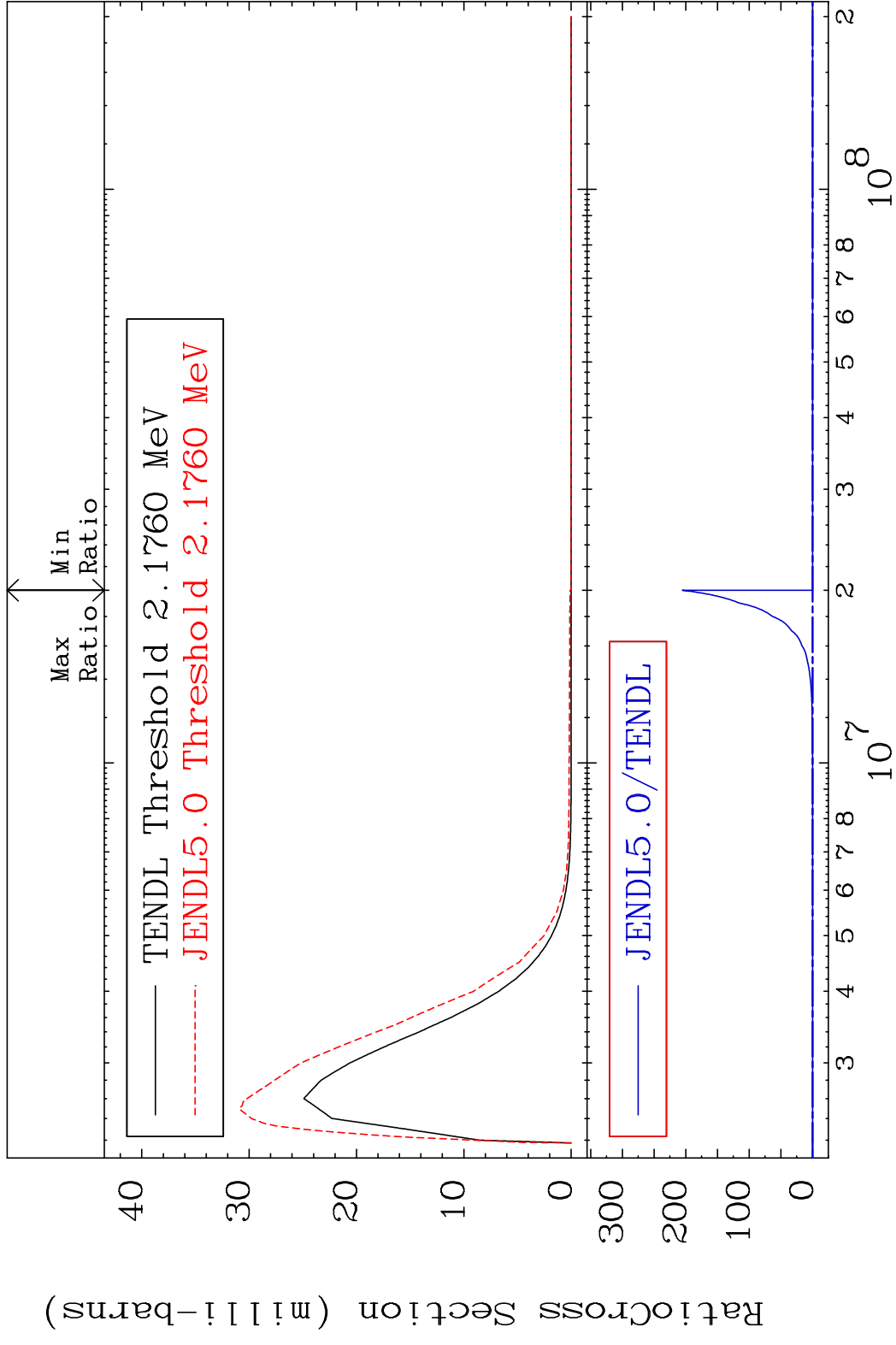
MAT 5637 MT= 59 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 118.2 %



MAT 5637 MT= 60 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 74.63 %

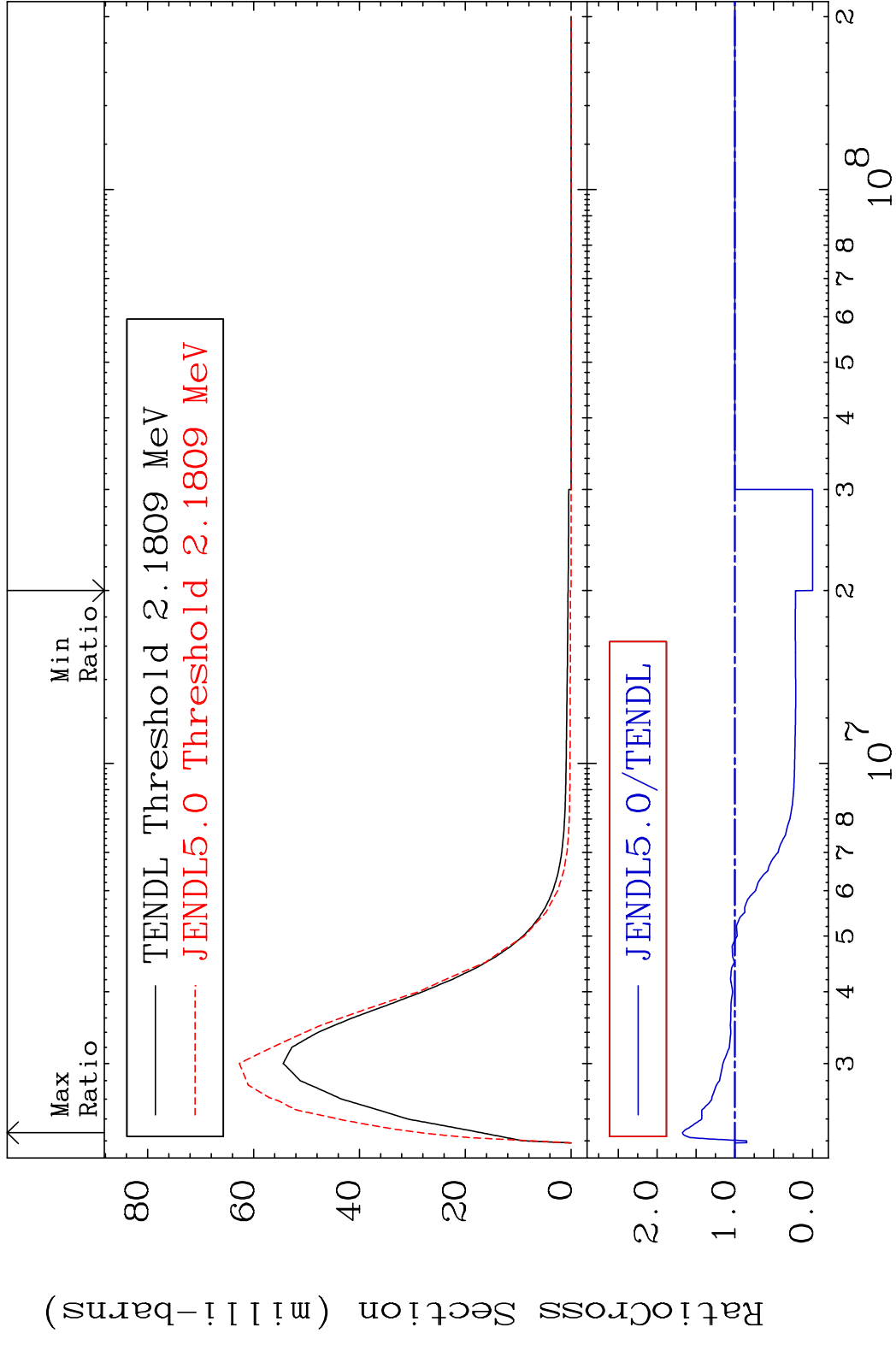


MAT 5637 MT= 61 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %

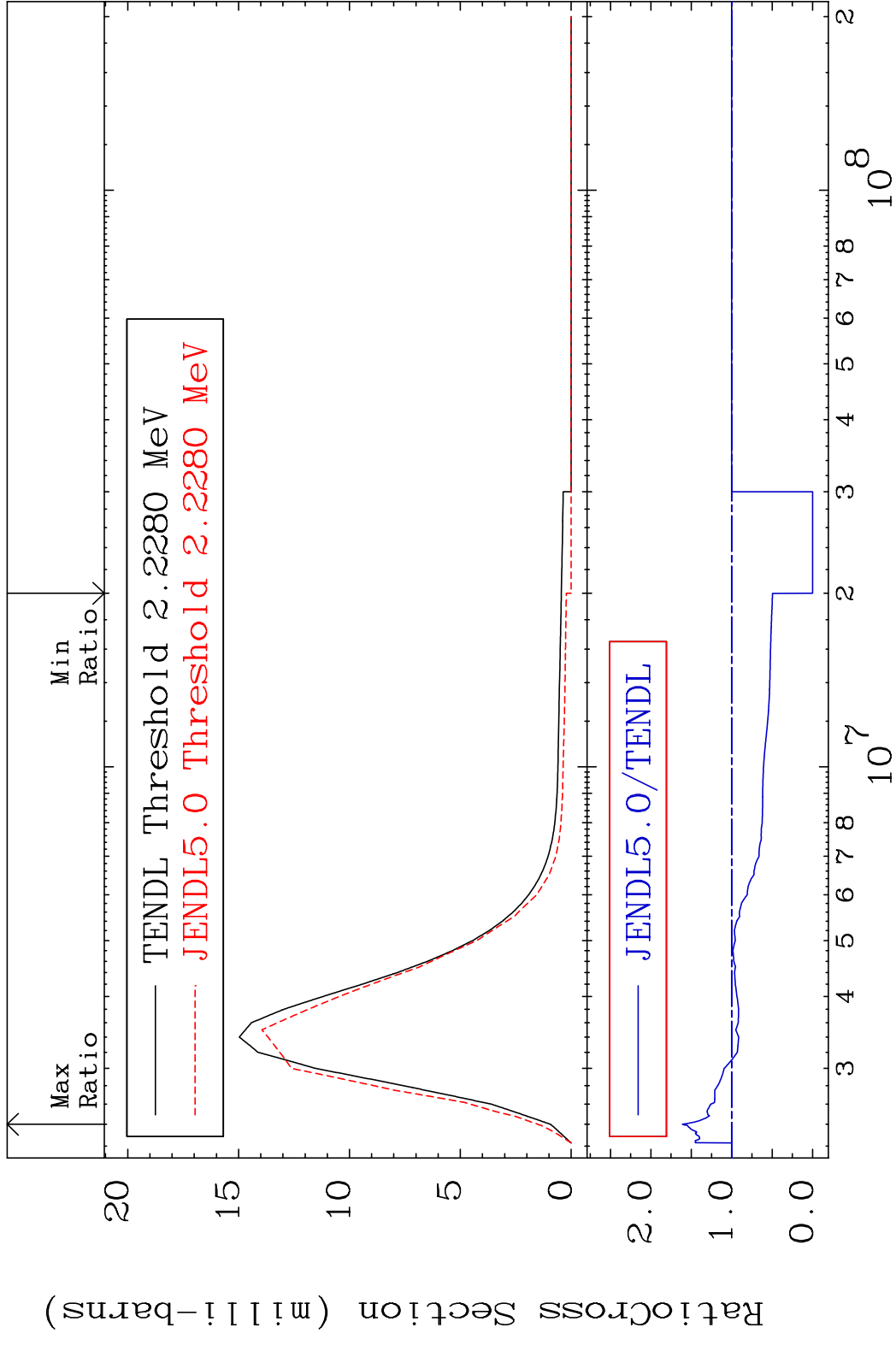


20 56-Ba-134

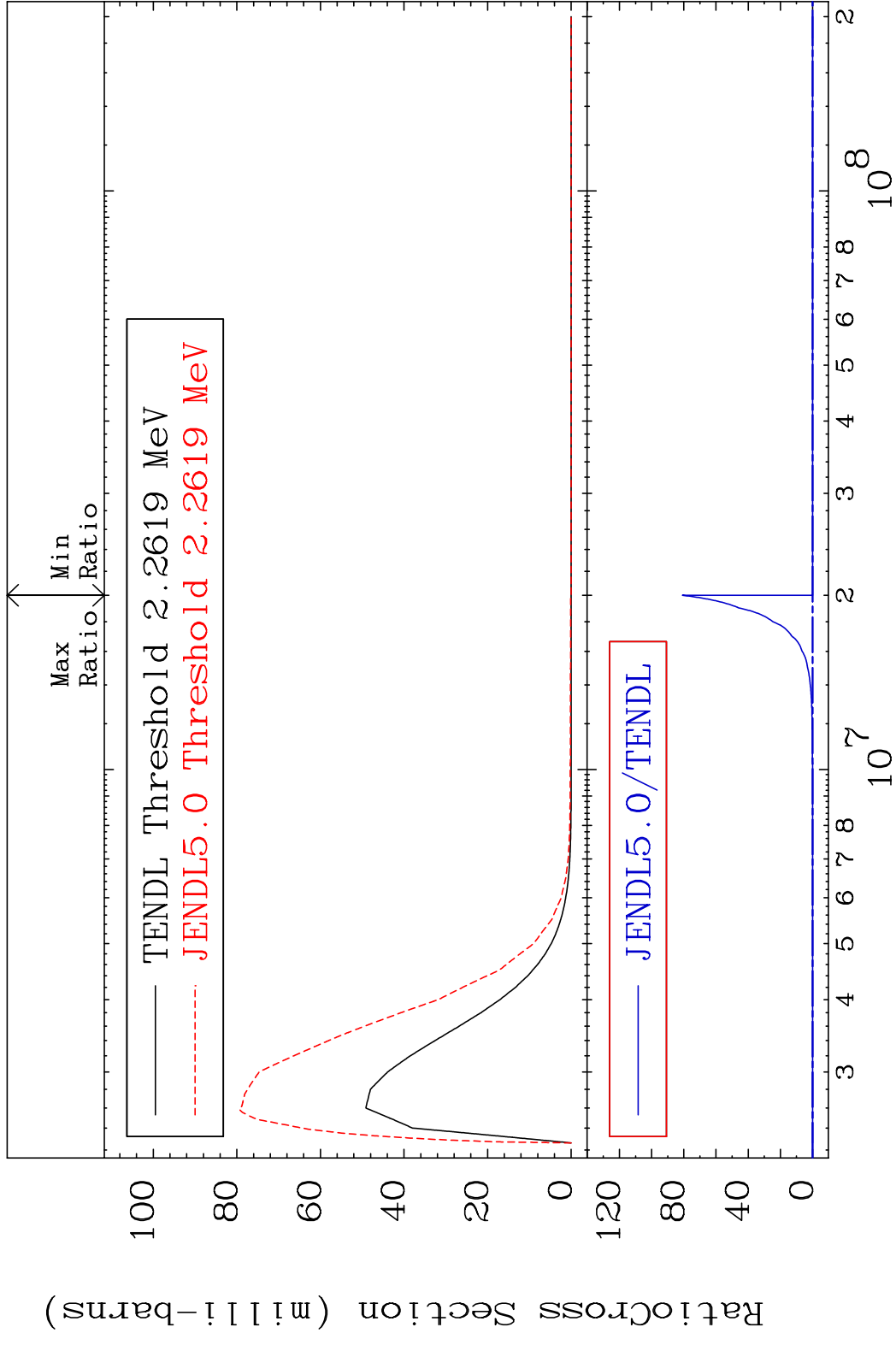
MAT 5637 MT= 62 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 67.50 %



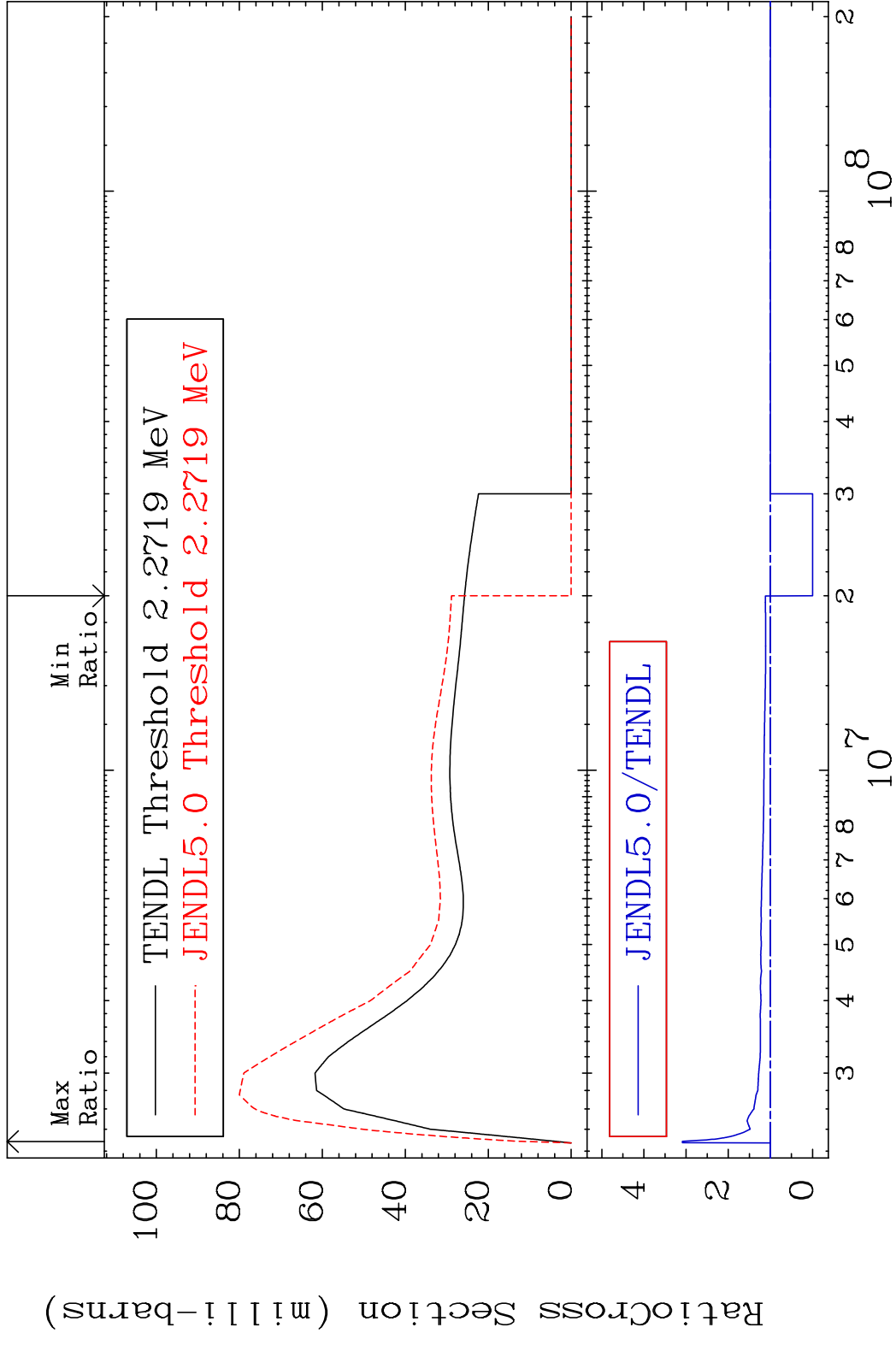
MAT 5637 MT= 63 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 61.07 %



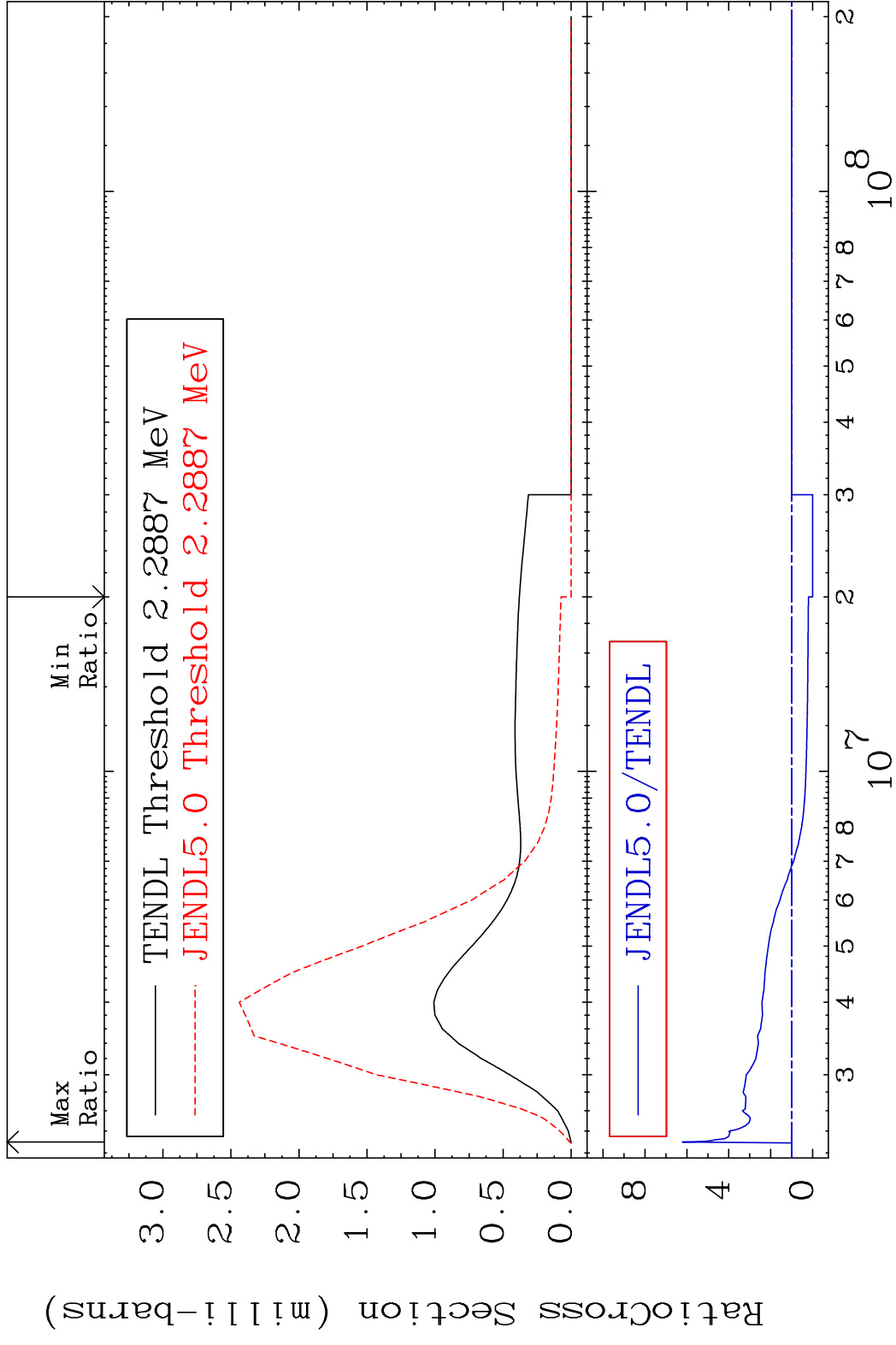
MAT 5637 MT= 64 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



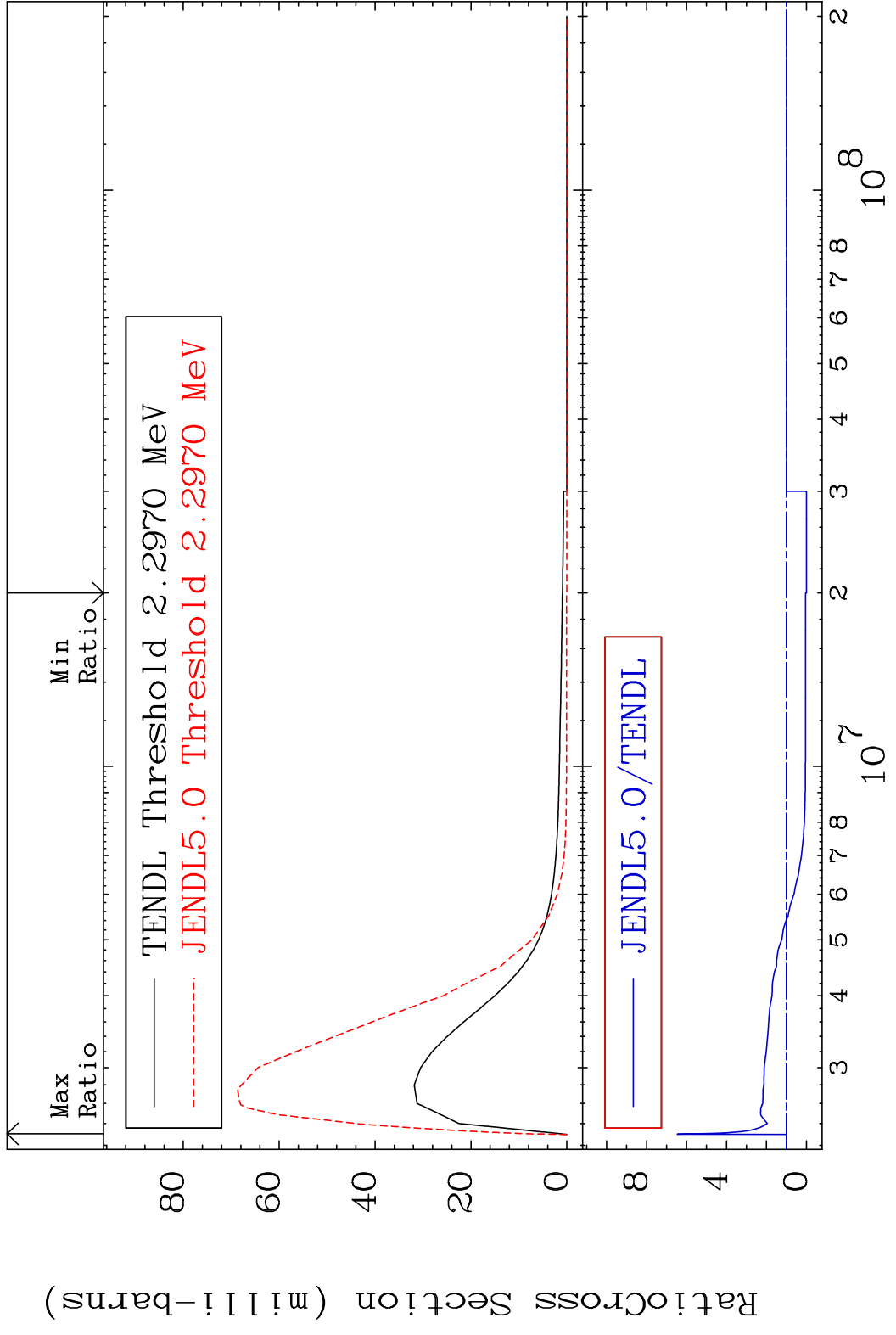
MAT 5637 MT= 65 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 208.9 %



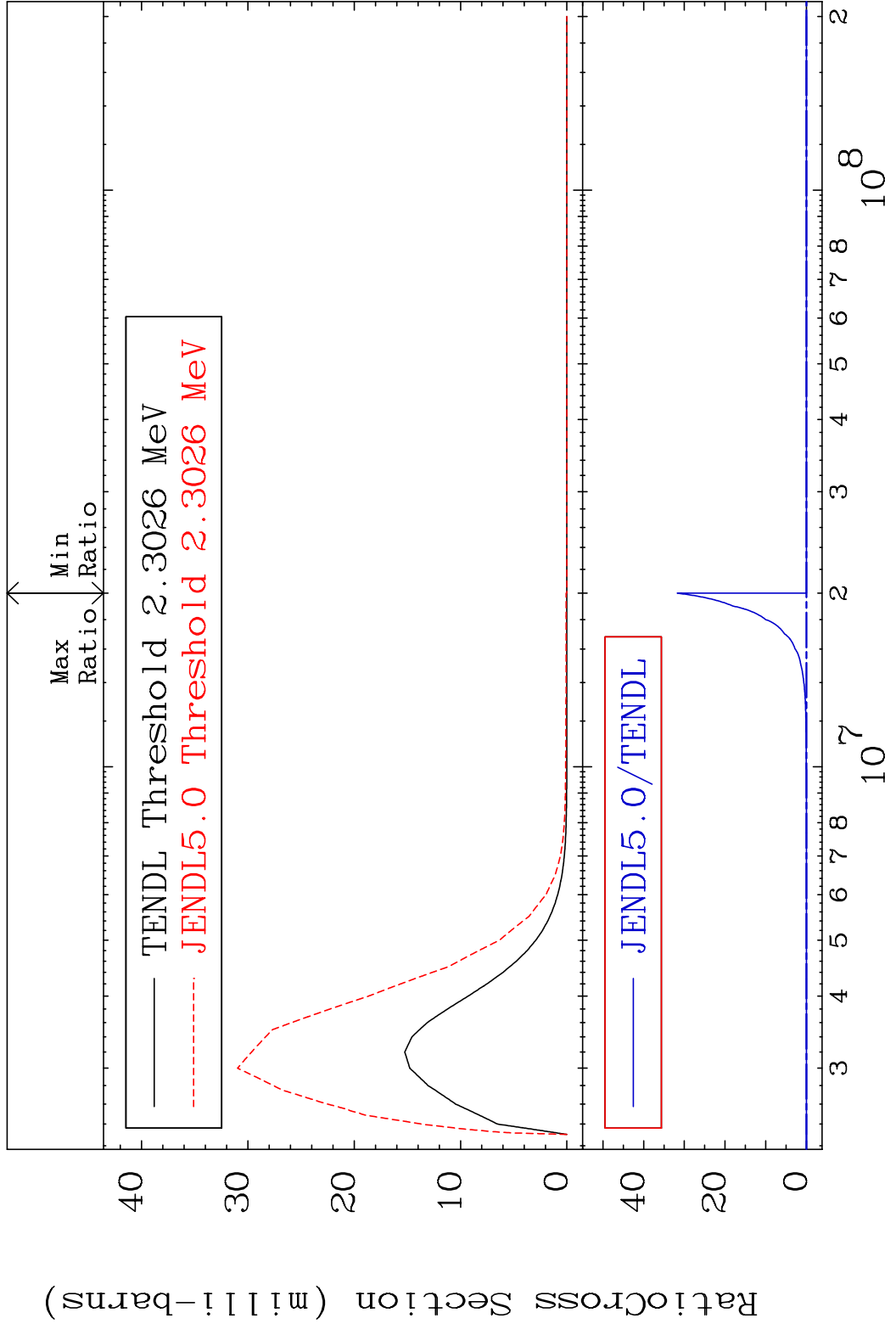
MAT 5637 MT= 66 (n,n') Level 56-Ba-134
 Cross Section -100.0 To 521.7 %



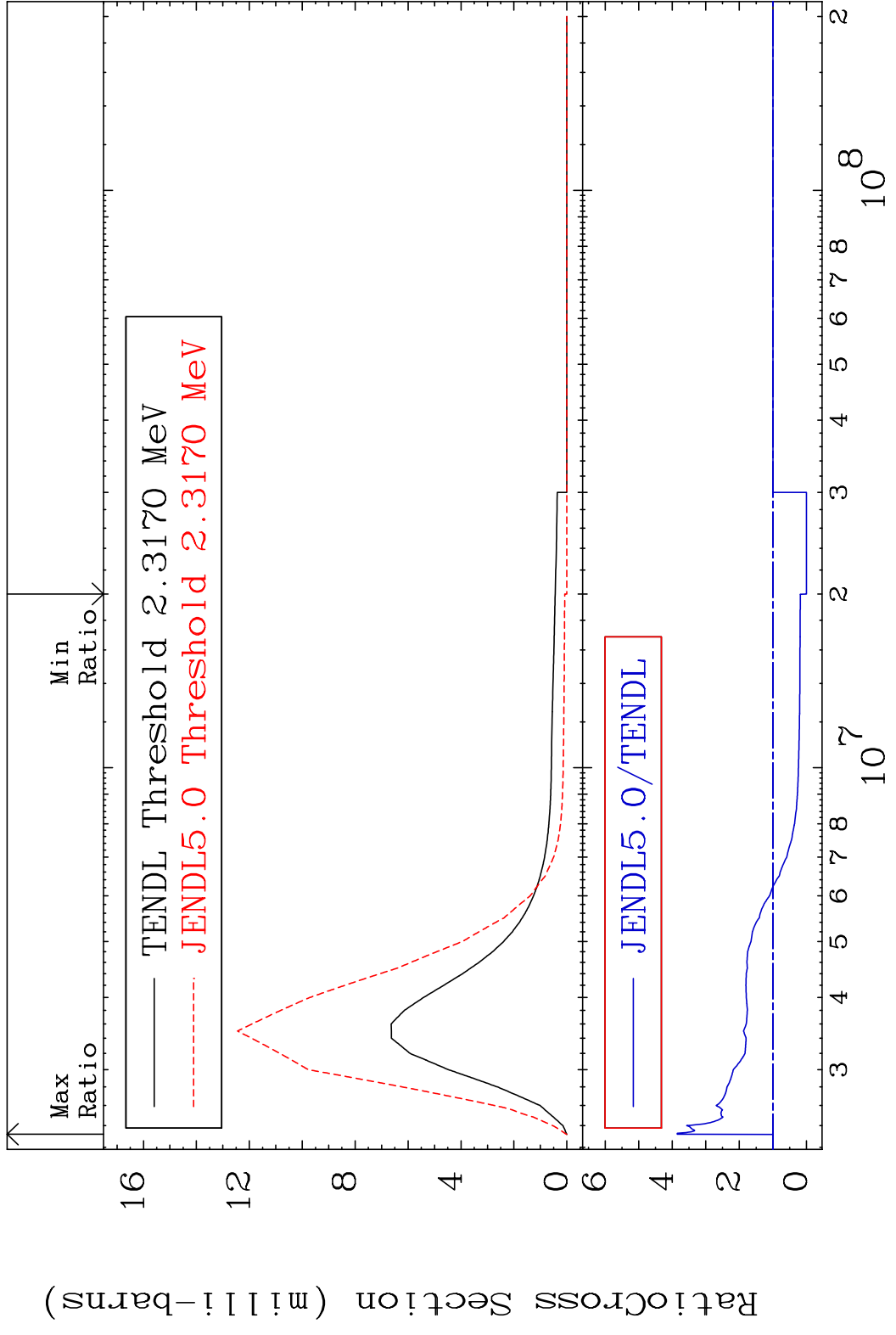
MAT 5637 MT= 67 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 546.8 %



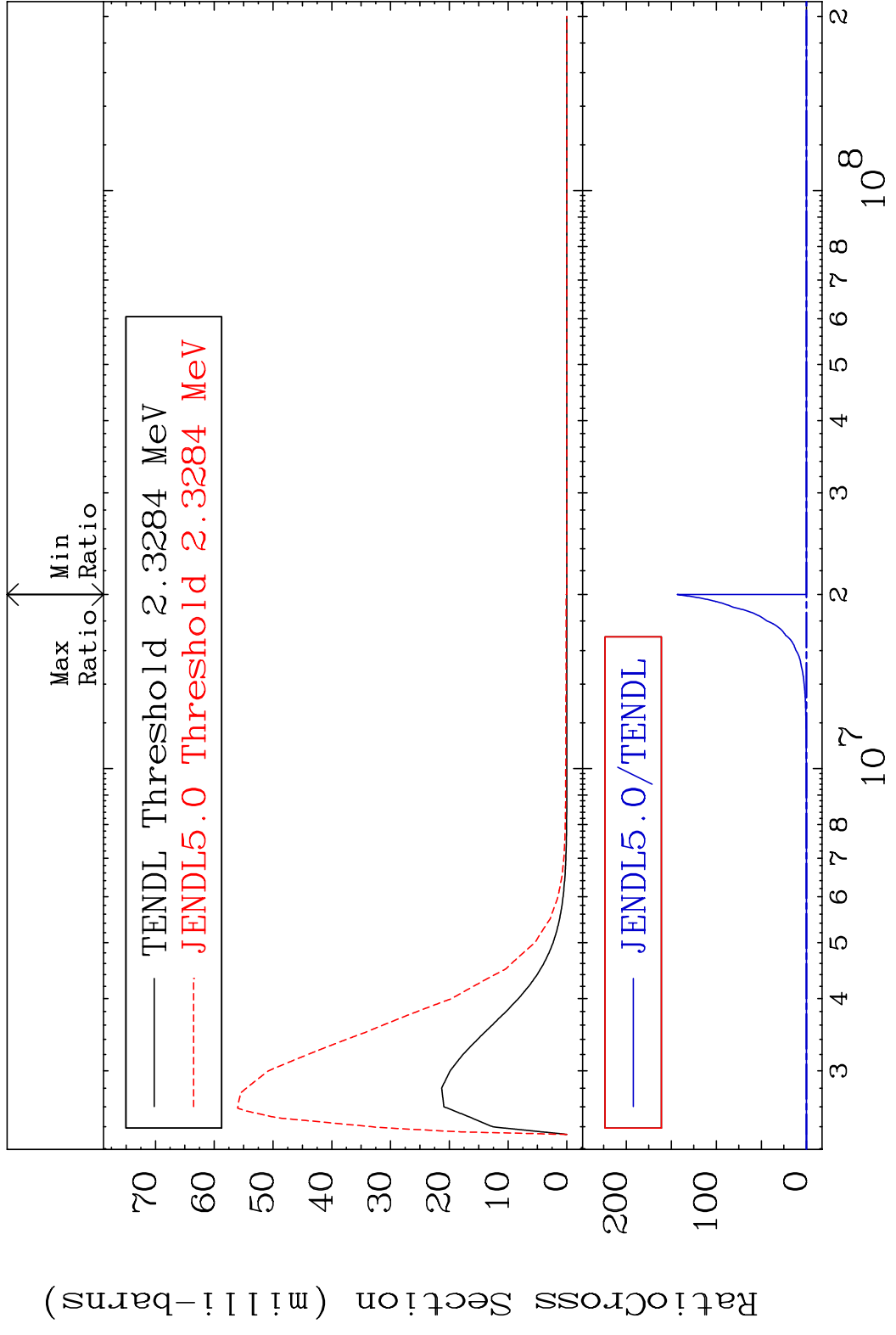
MAT 5637 MT= 68 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



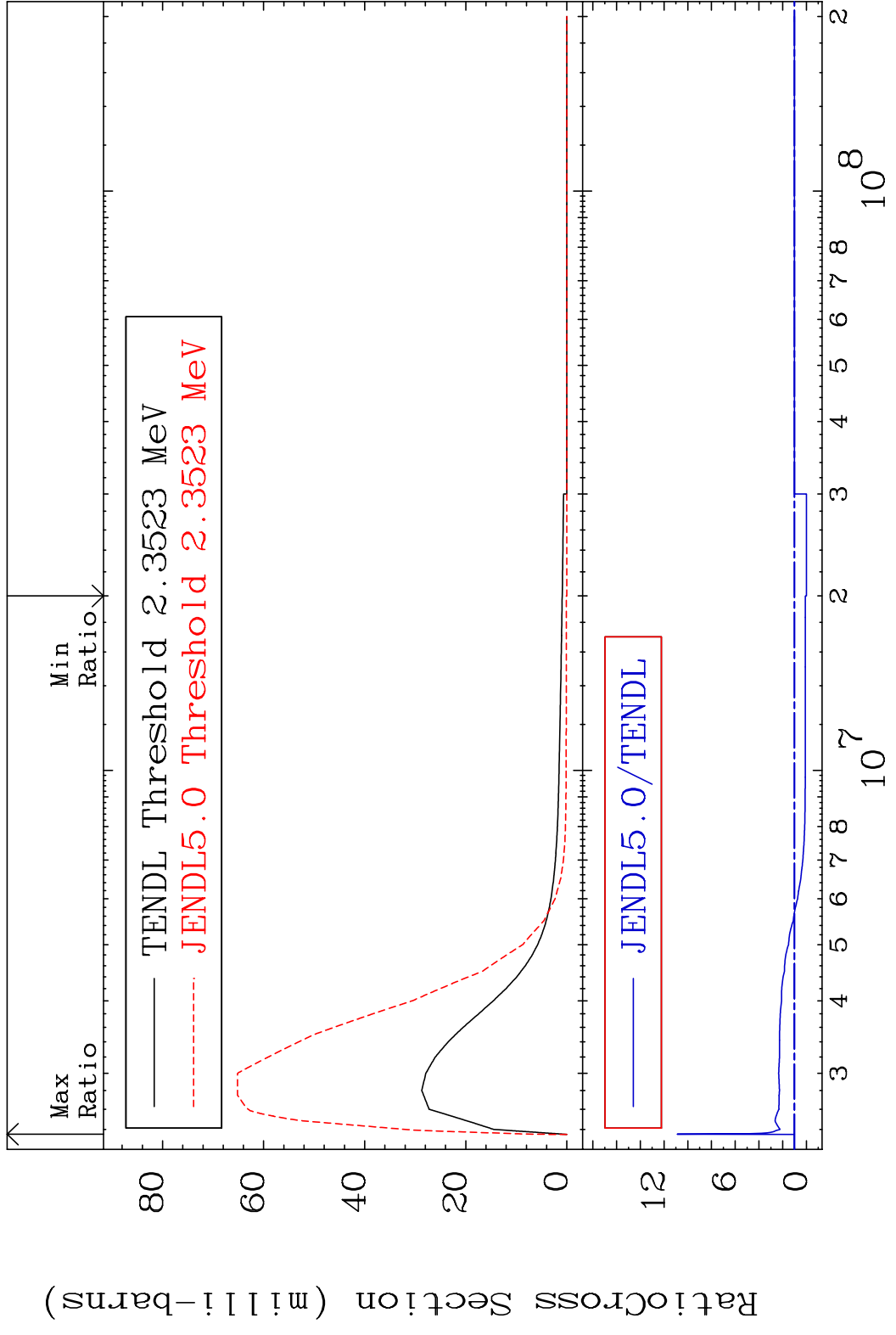
MAT 5637 MT= 69 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 285.4 %



MAT 5637 MT= 70 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %

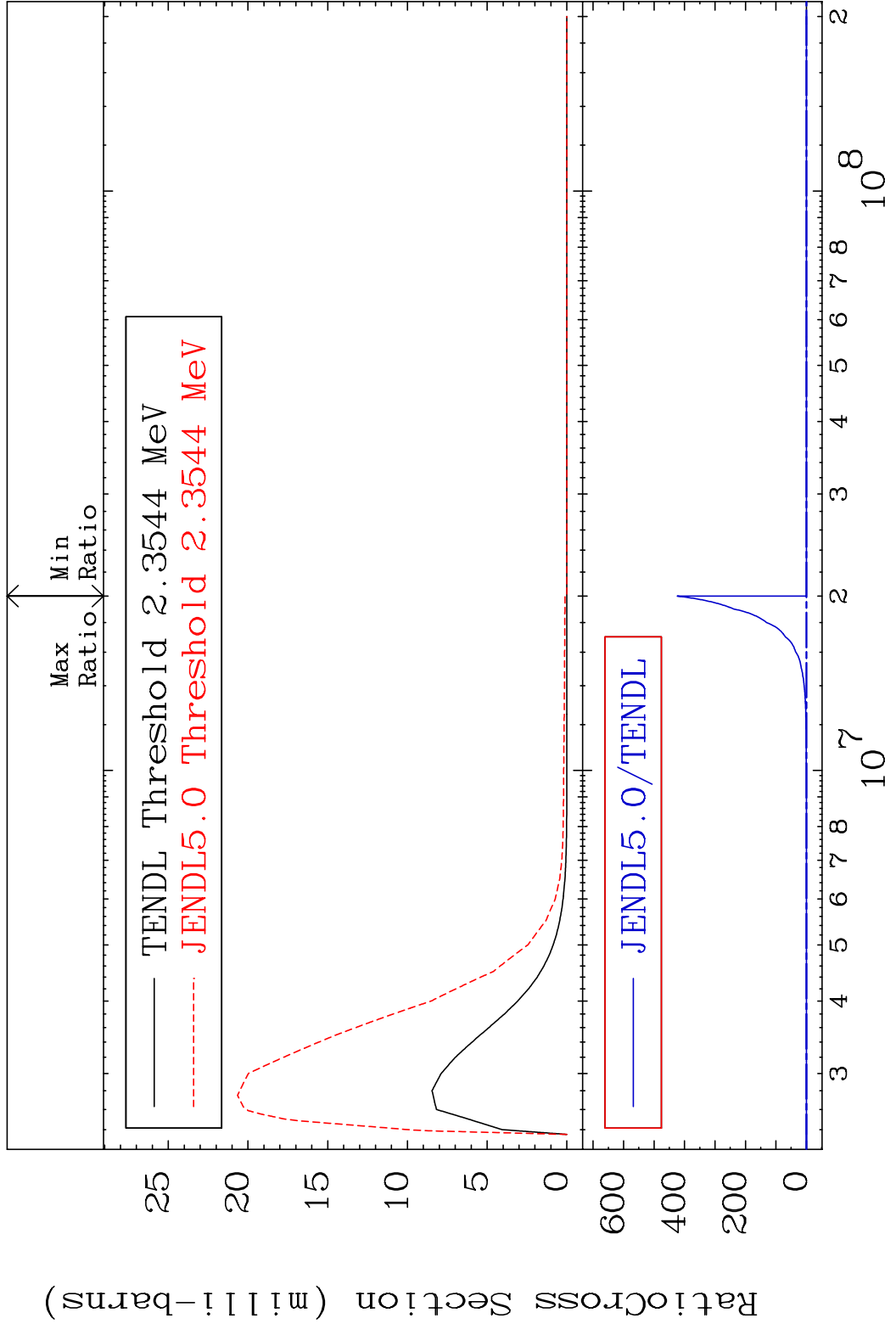


MAT 5637 MT= 71 (n,n') Level 56-Ba-134
 Cross Section -100.0 To 989.3 %

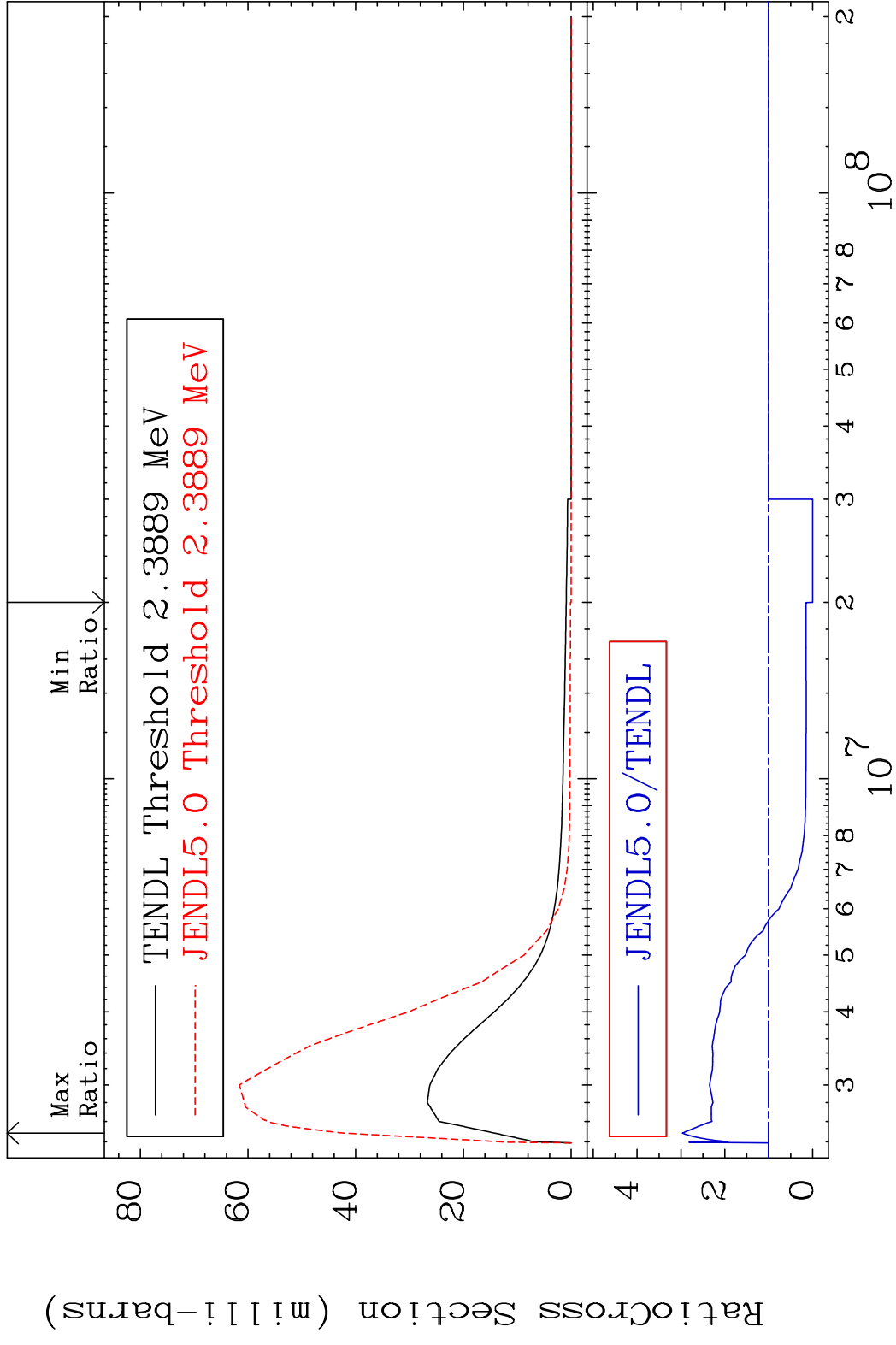


30 56-Ba-134

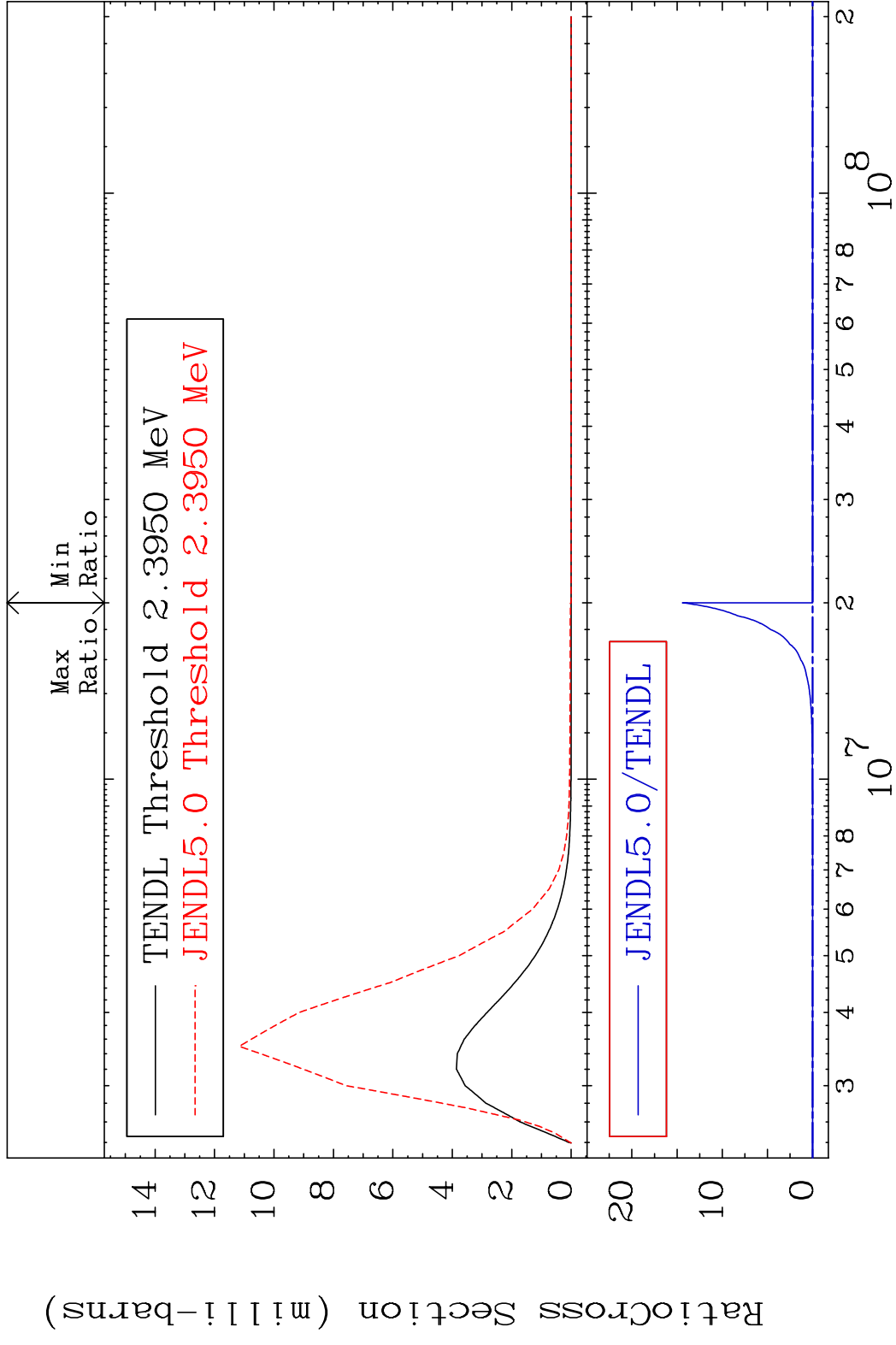
MAT 5637 MT= 72 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



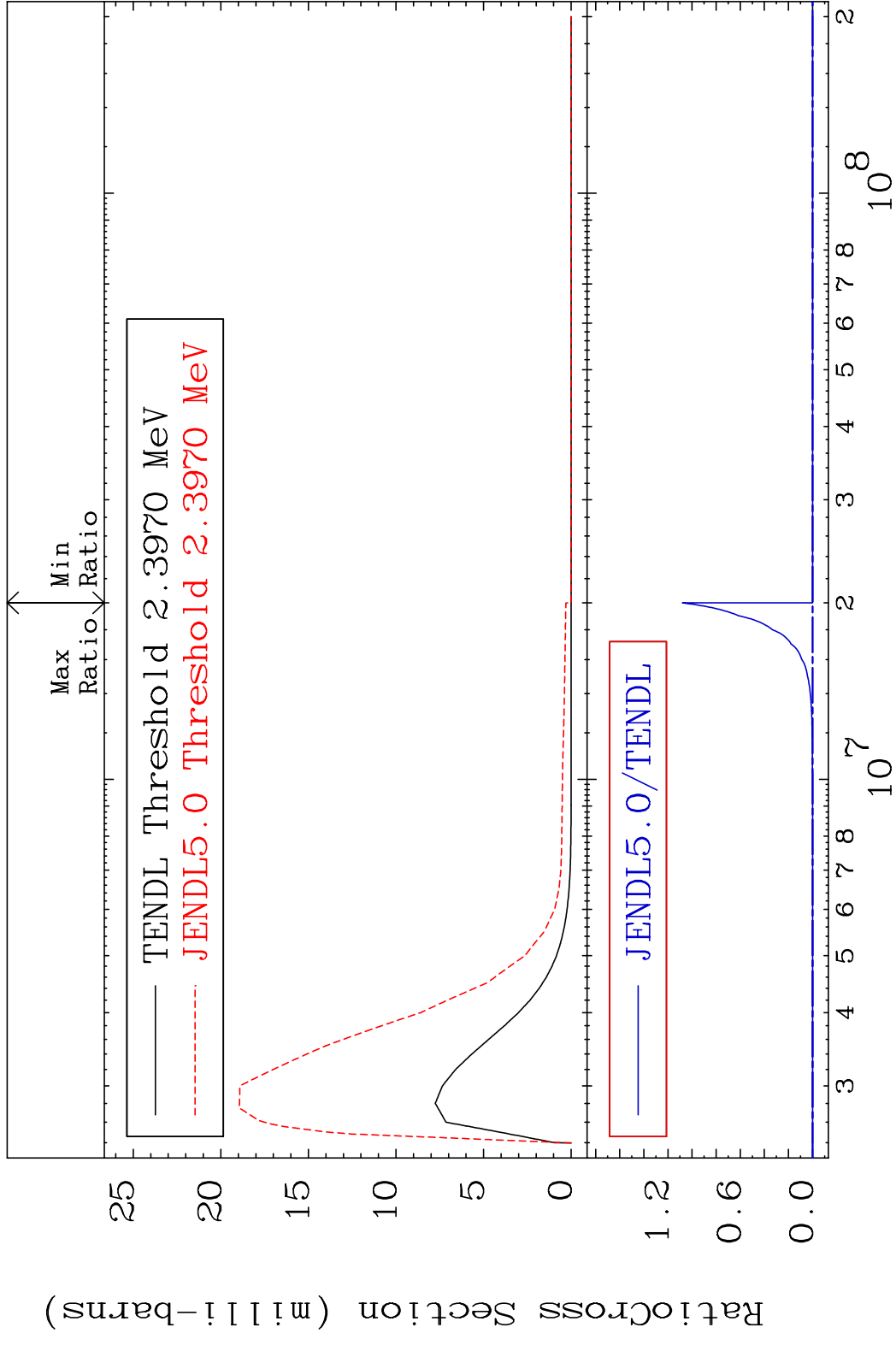
MAT 5637 MT= 73 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 196.8 %



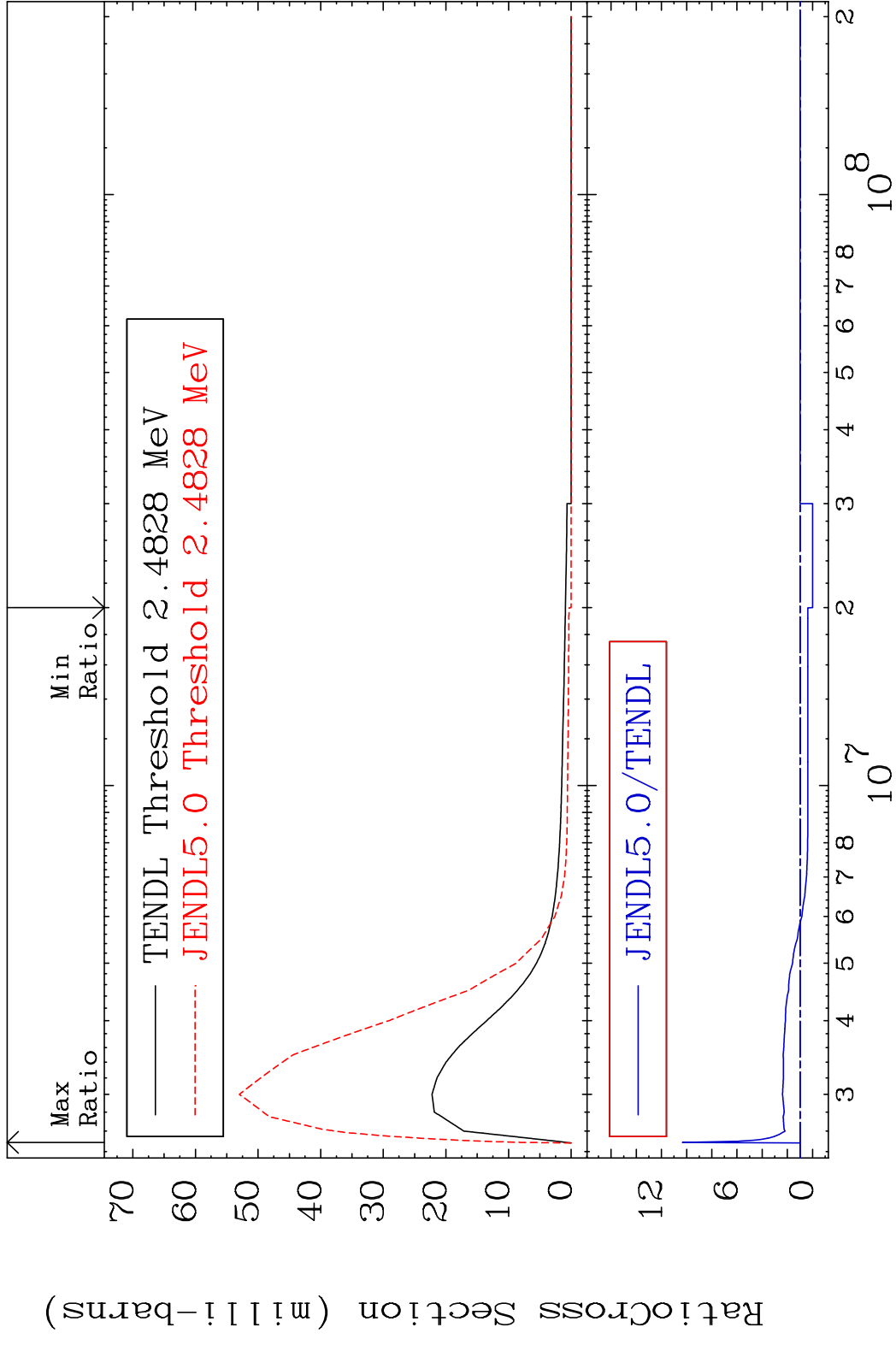
MAT 5637 MT= 74 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



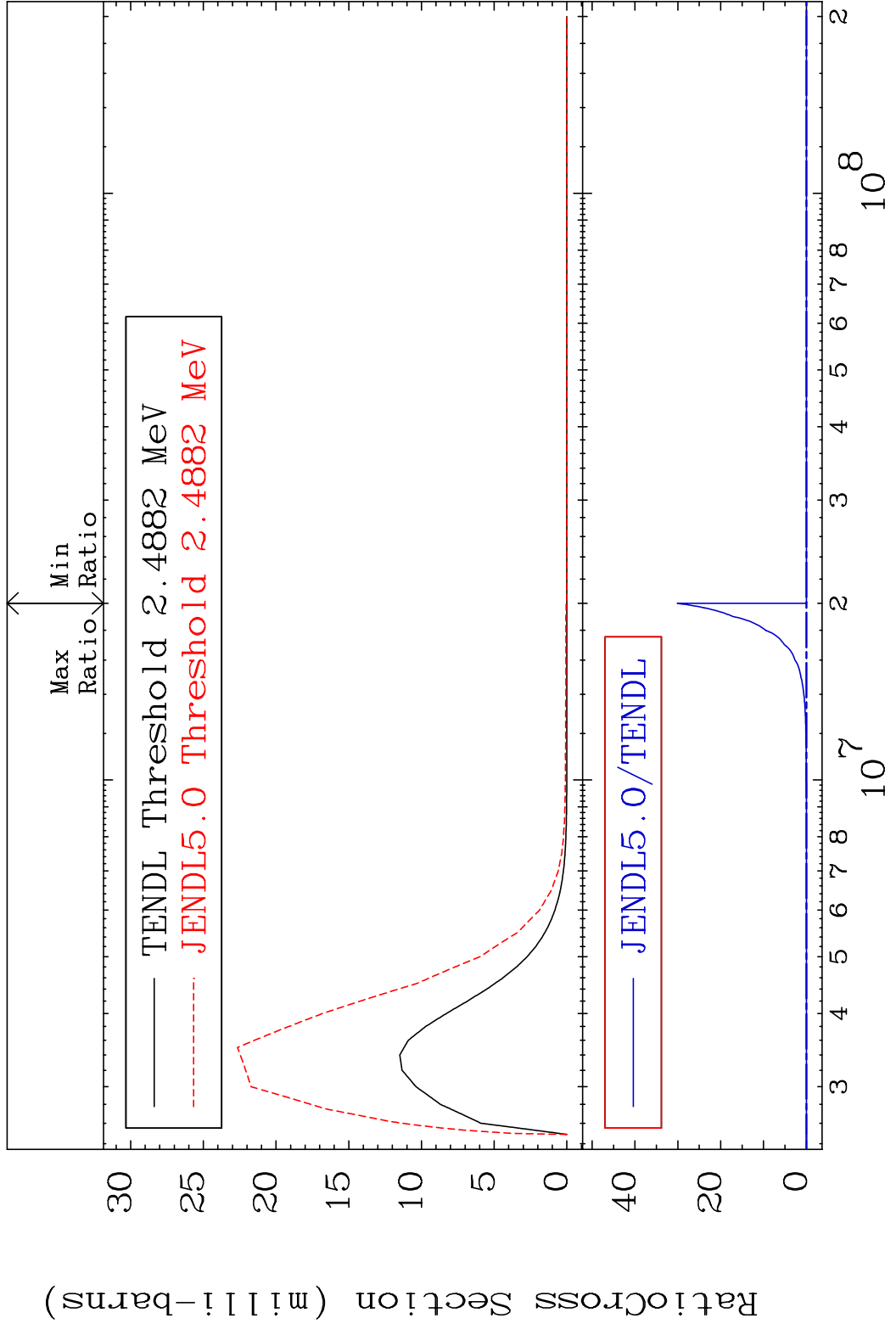
MAT 5637 MT= 75 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



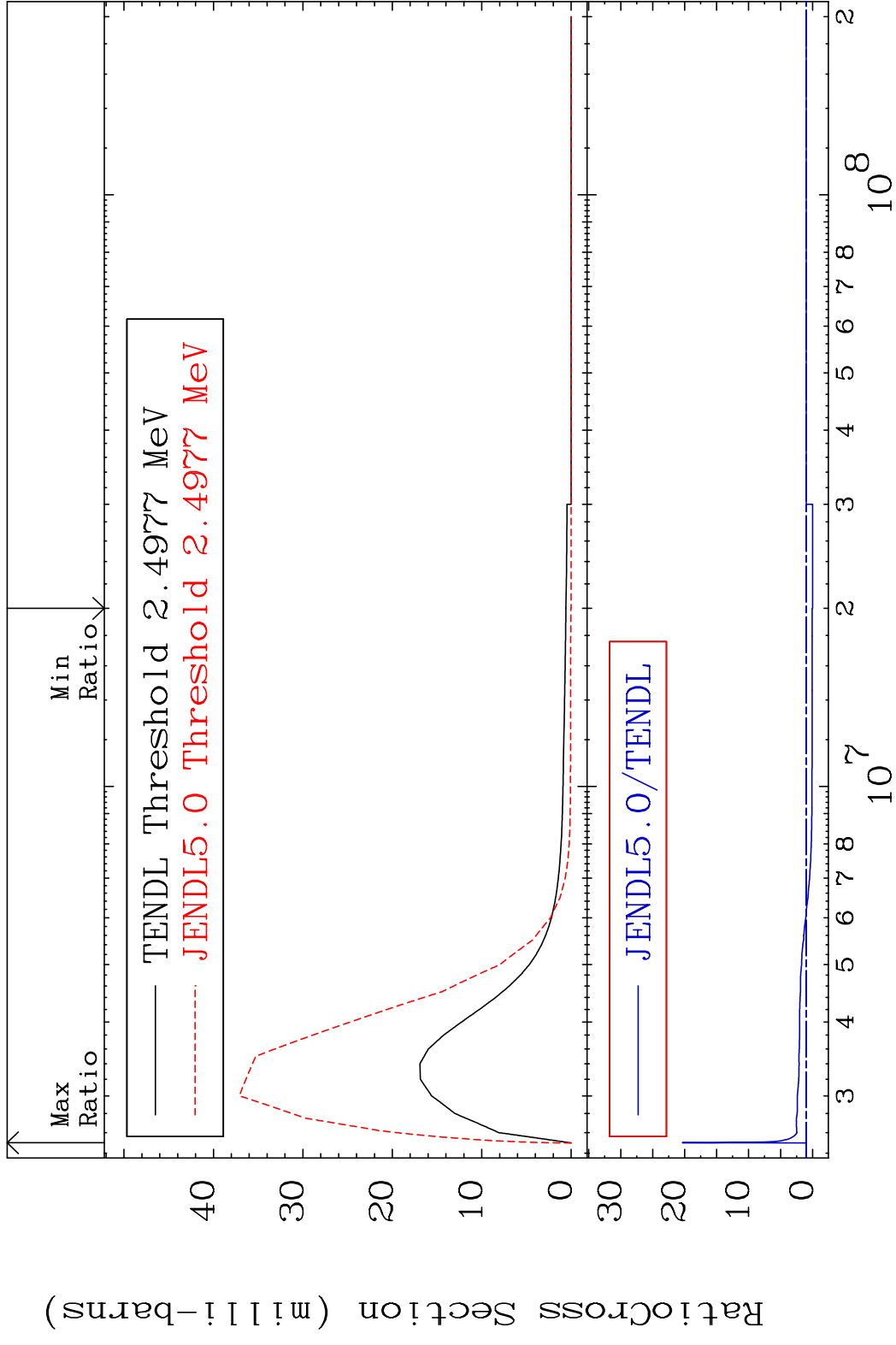
MAT 5637 MT= 76 (n,n') Level 56-Ba-134
 Cross Section -100.0 To 934.0 %



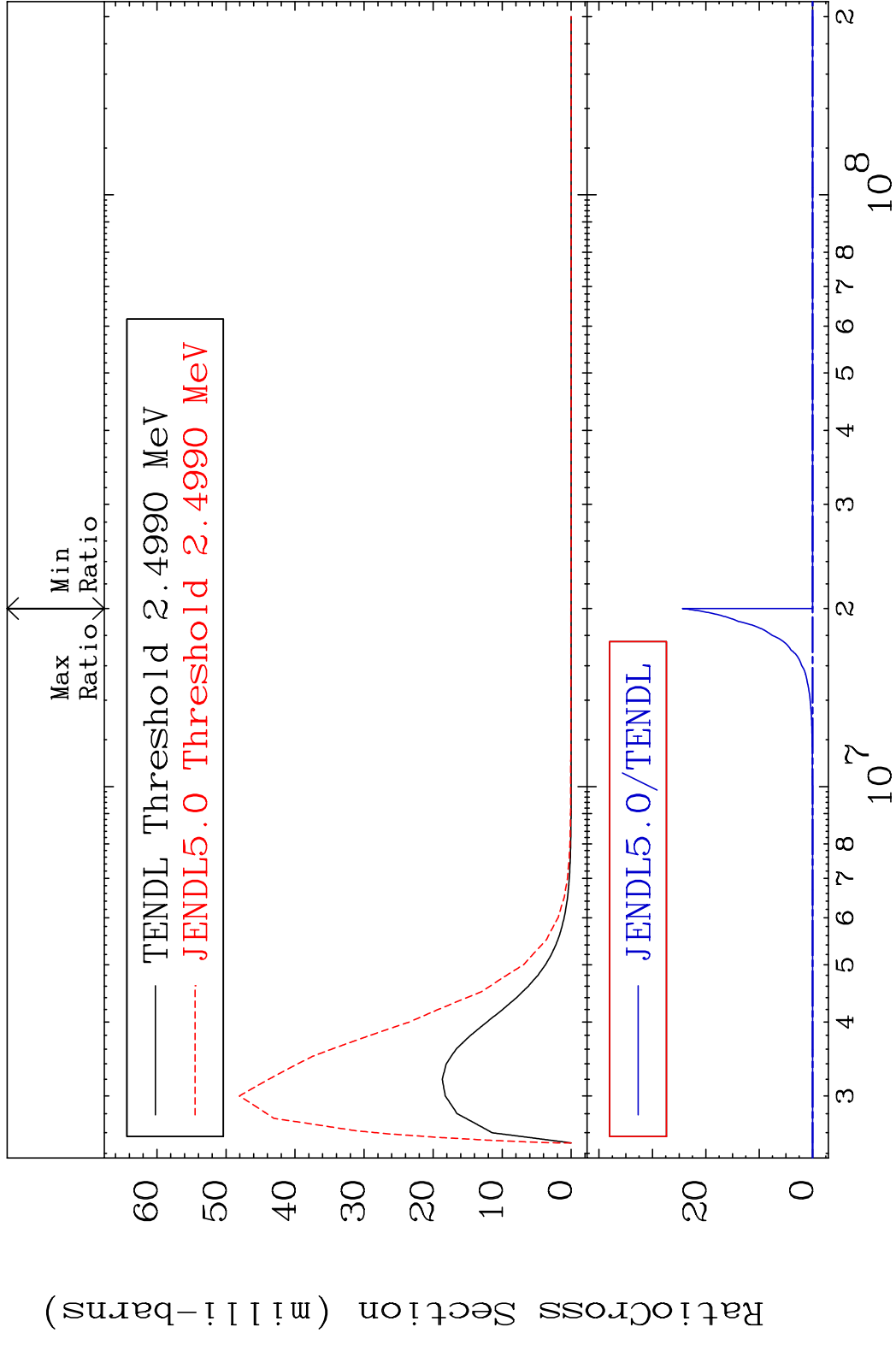
MAT 5637 MT= 77 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %



MAT 5637 MT= 78 (n,n') Level 56-Ba-134
 Cross Section -100.0 To 1936. %



MAT 5637 MT= 79 (n, n') Level 56-Ba-134
 Cross Section -100.0 To 9999. %

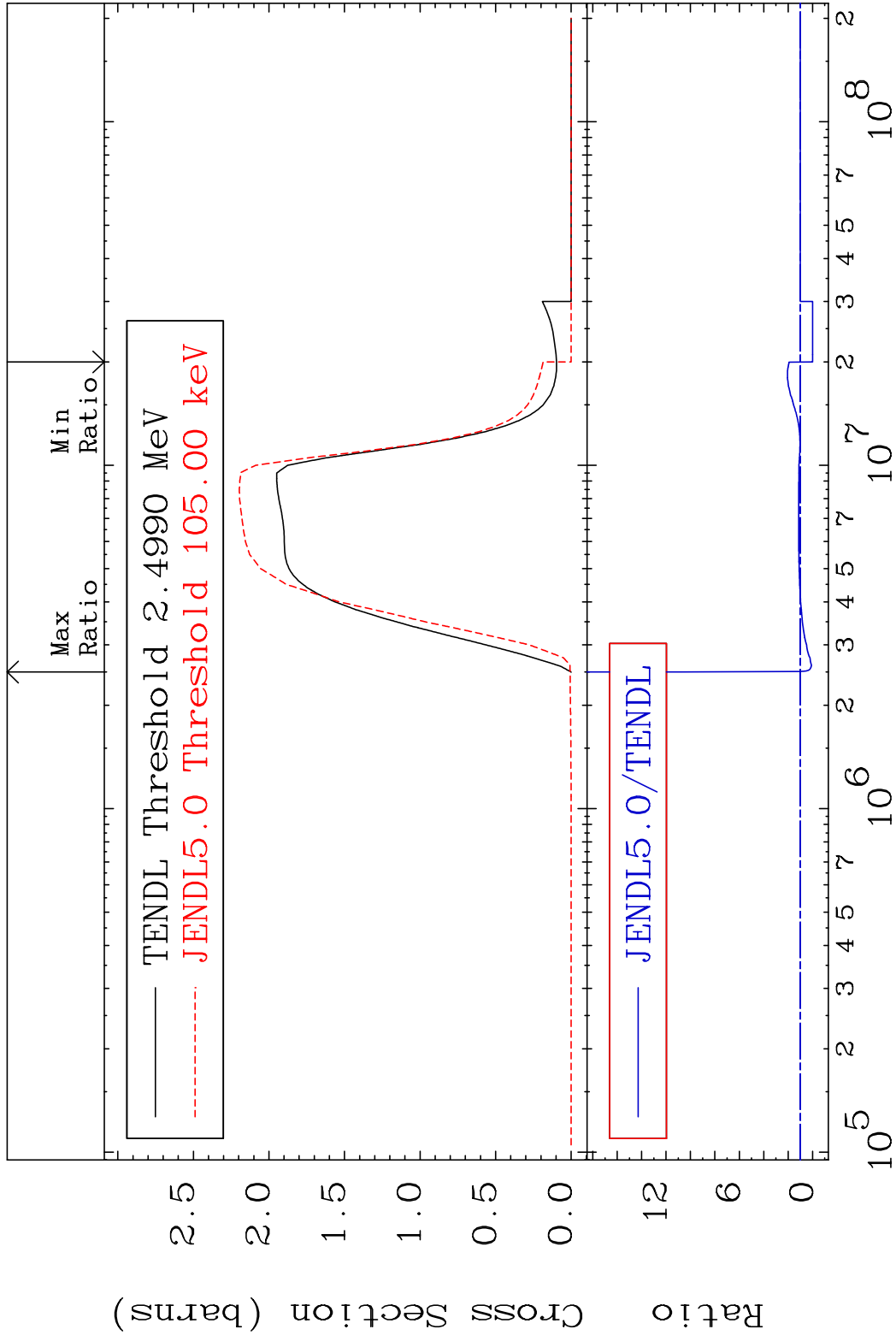


MAT 5637

(n,n') Continuum

56-Ba-134

Cross Section -100.0 To 966.4 %



39

Incident Energy (eV)

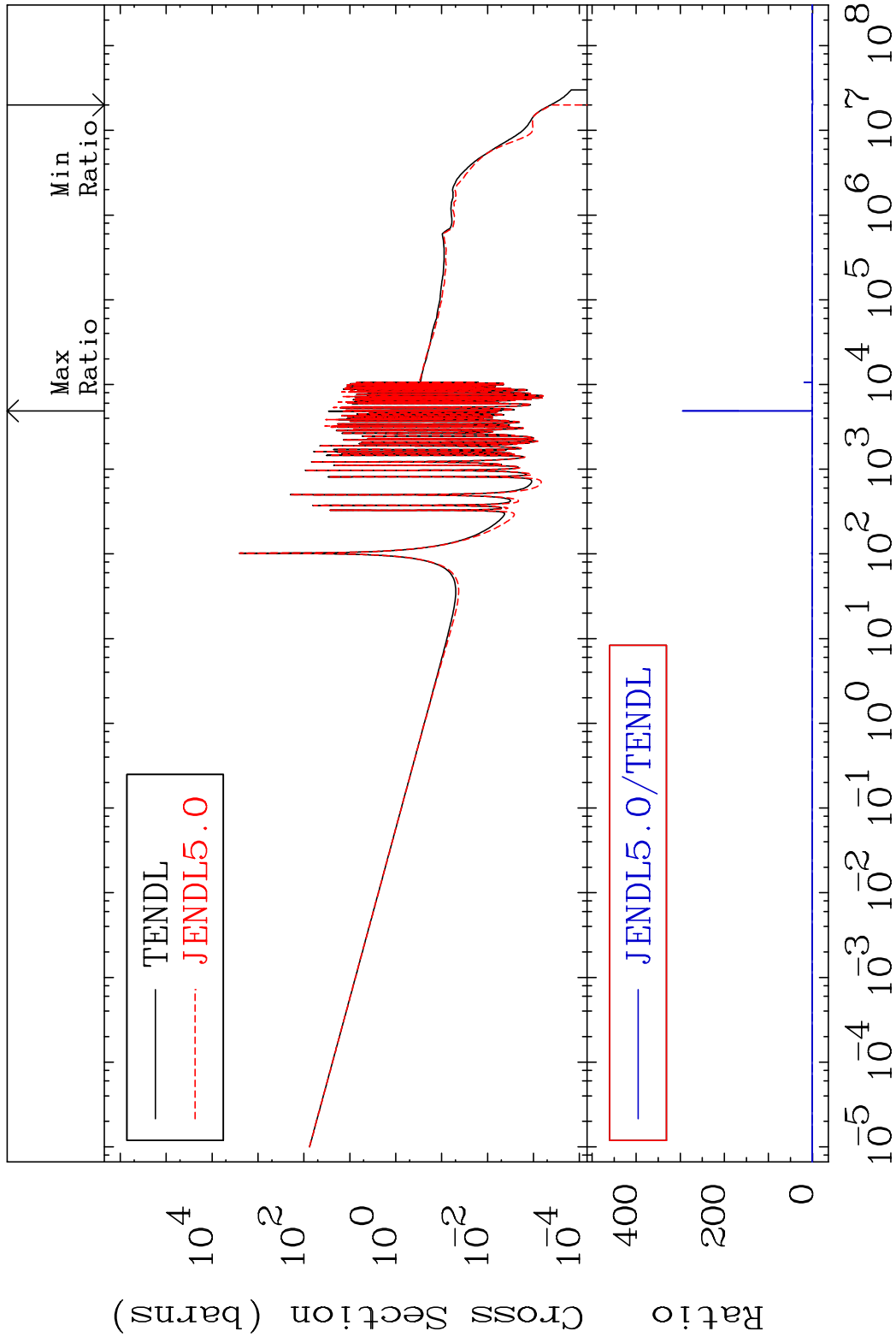
56-Ba-134

MAT 5637

(n, γ)

56-Ba-134

Cross Section -100.0 To 9999. %



Max Ratio

Min Ratio

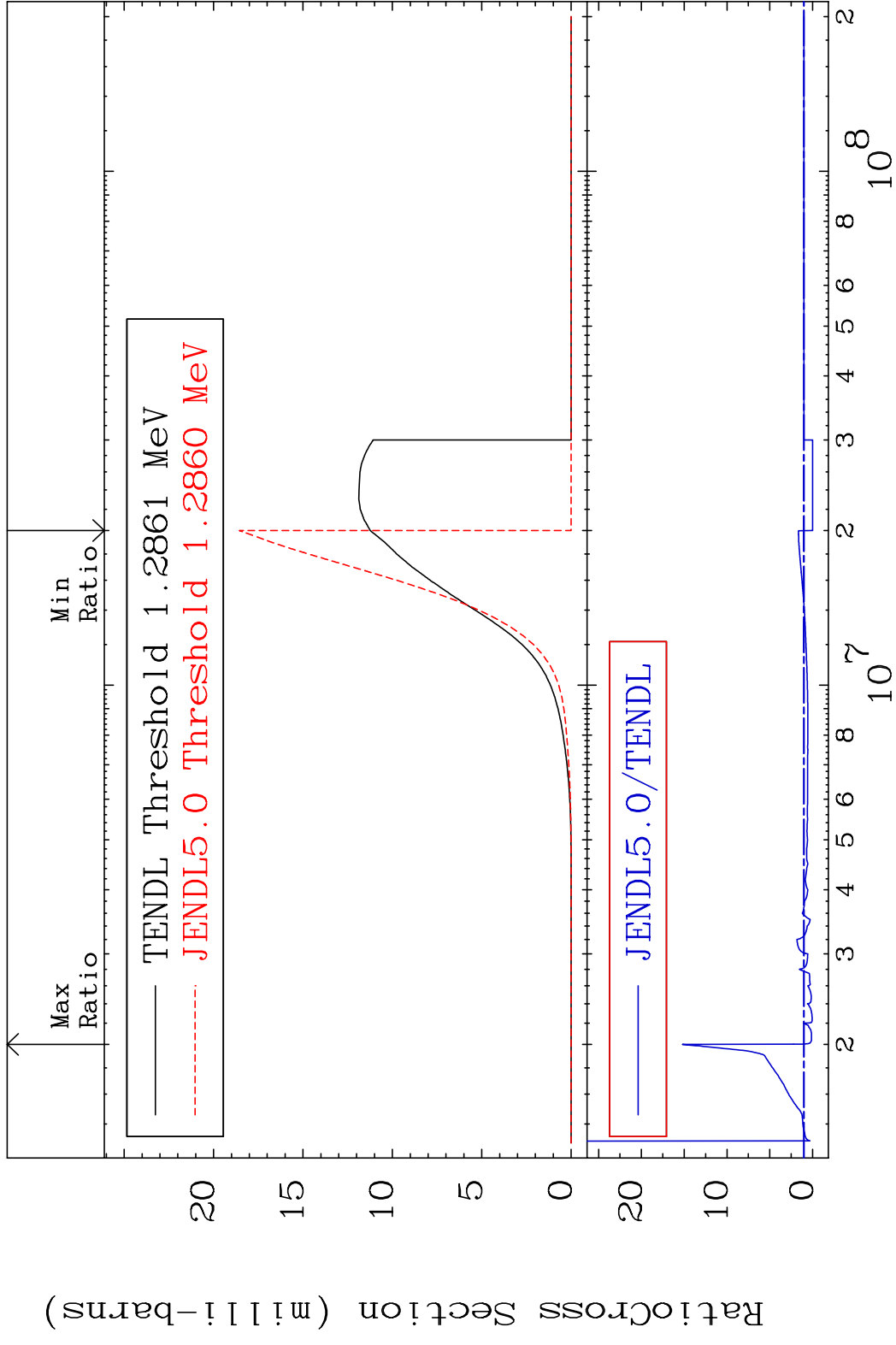
TENDL
JENDL5.0

JENDL5.0/TENDL

40

Incident Energy (eV)

56-Ba-134

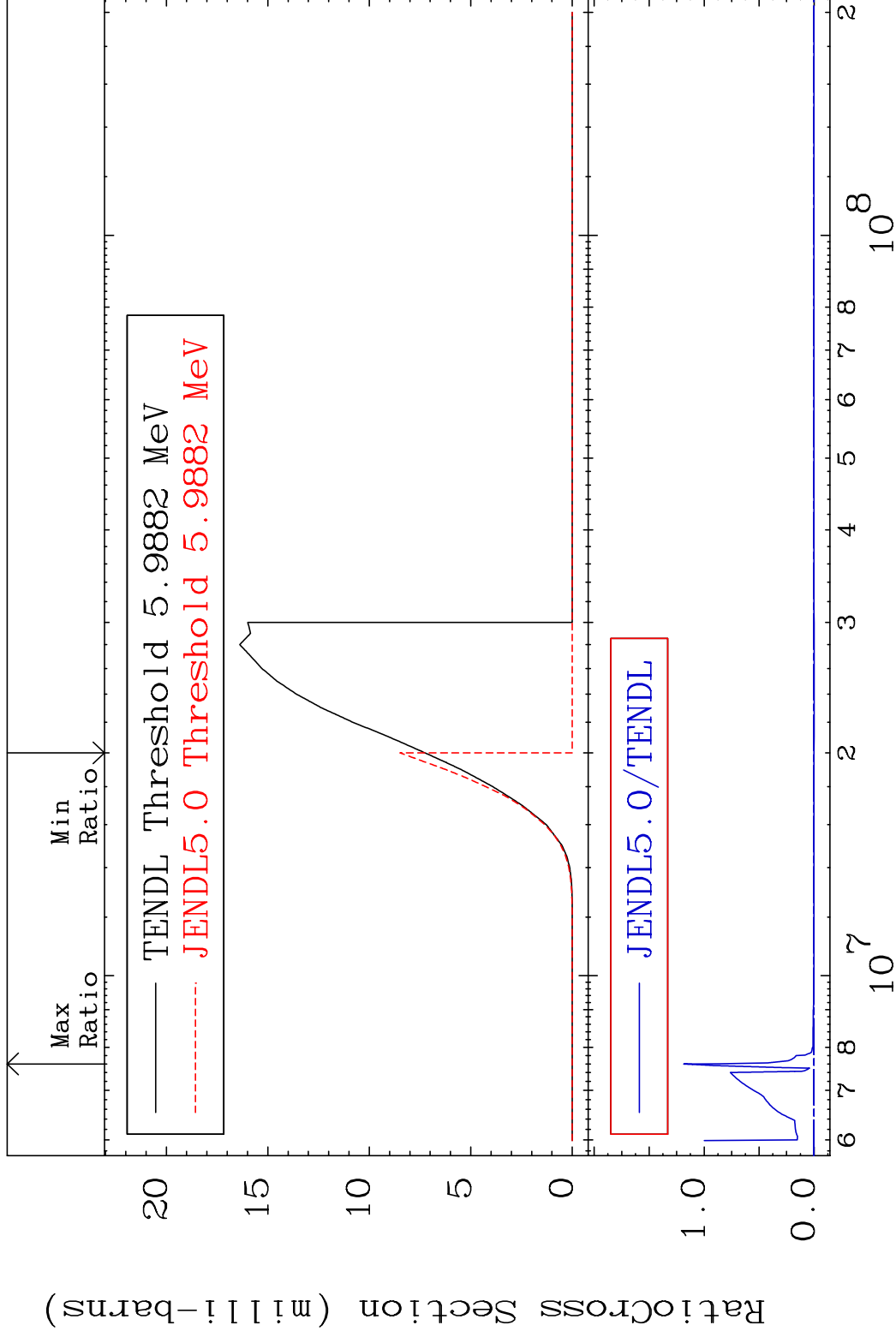


MAT 5637

(n,d)

56-Ba-134

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

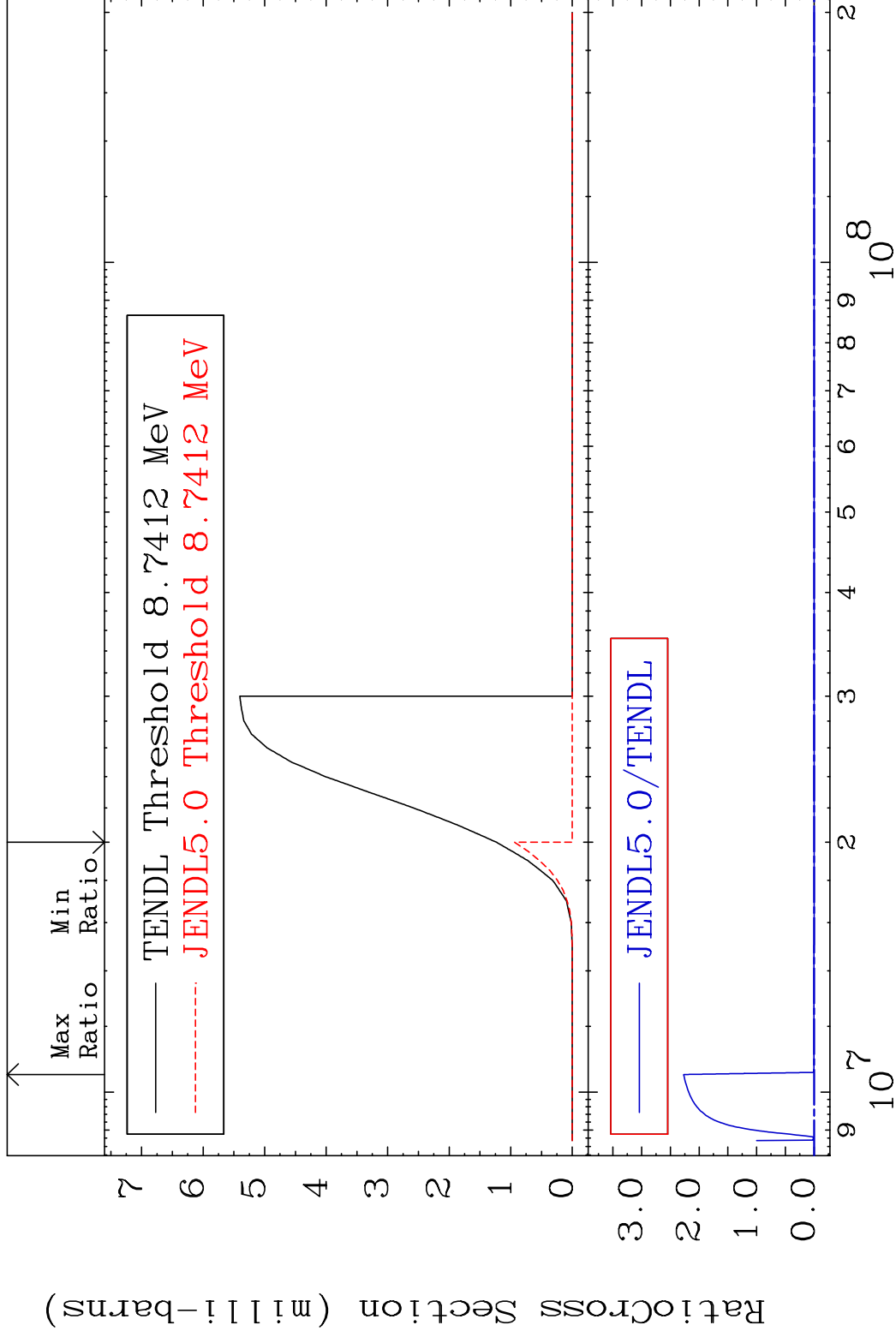
56-Ba-134

MAT 5637

(n, t)

56-Ba-134

Cross Section -100.0 To 9999. %

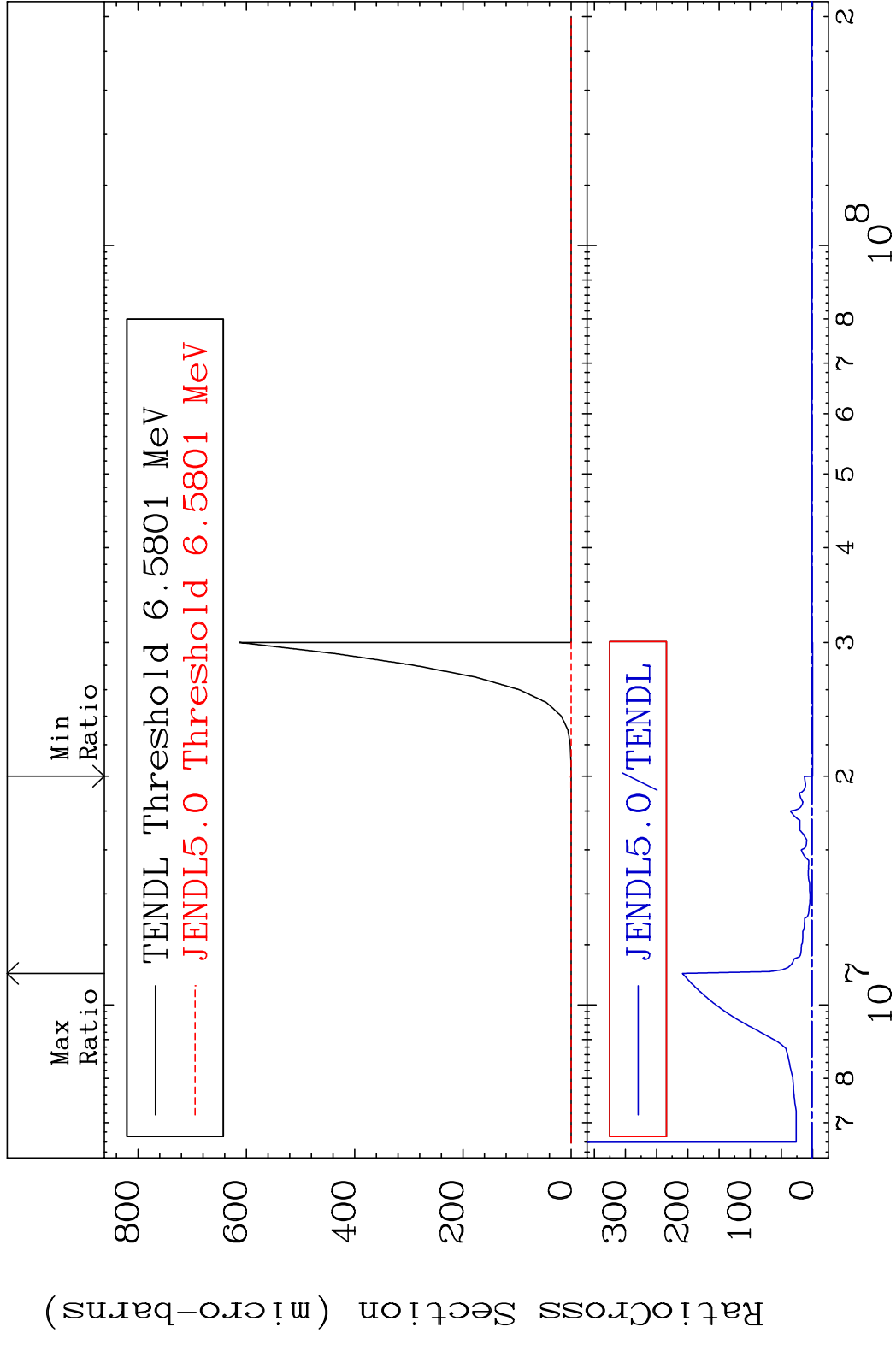


43

Incident Energy (eV)

56-Ba-134

MAT 5637 (n, He-3) 56-Ba-134
 Cross Section -100.0 To 9999. %

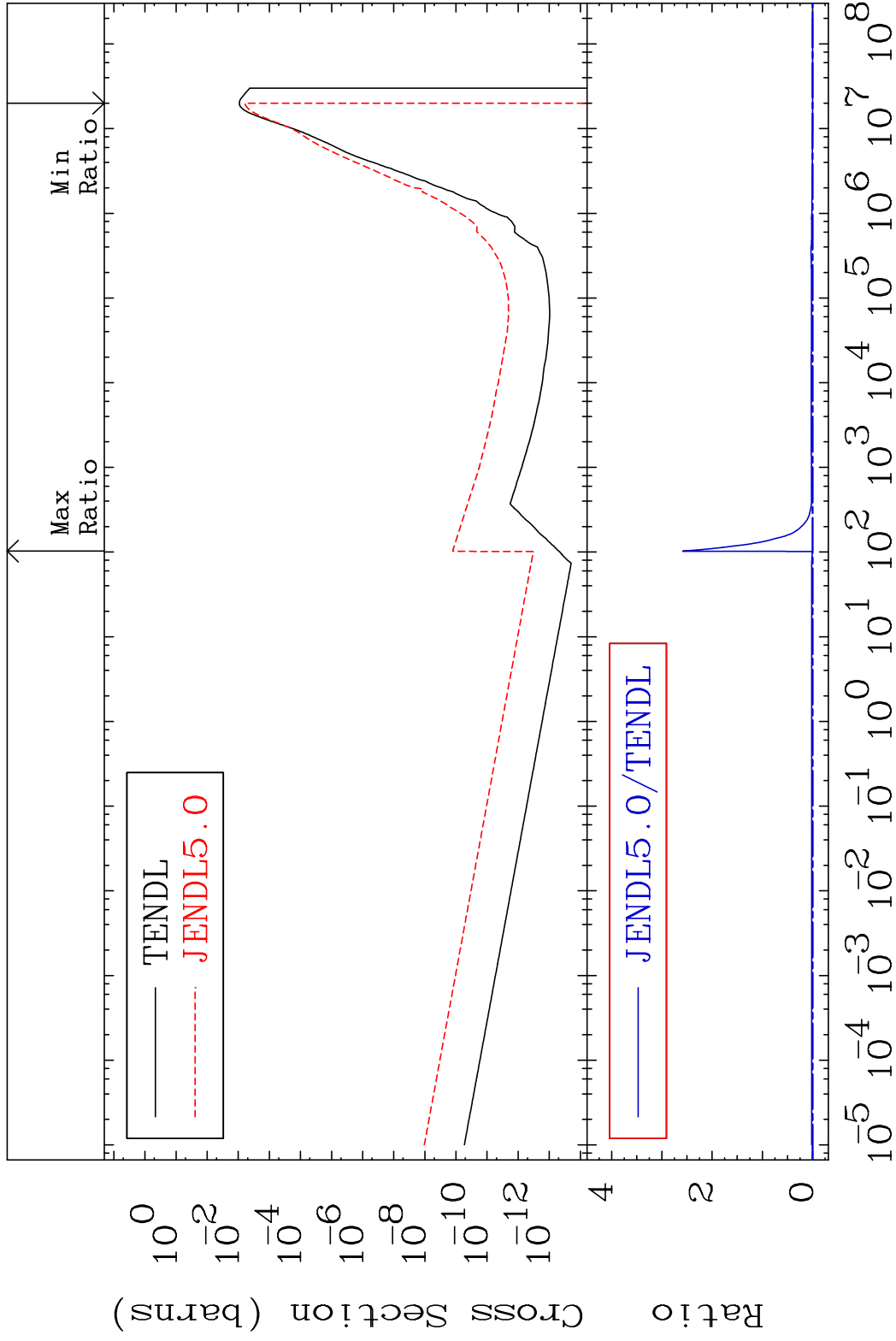


MAT 5637

(n, α)

56-Ba-134

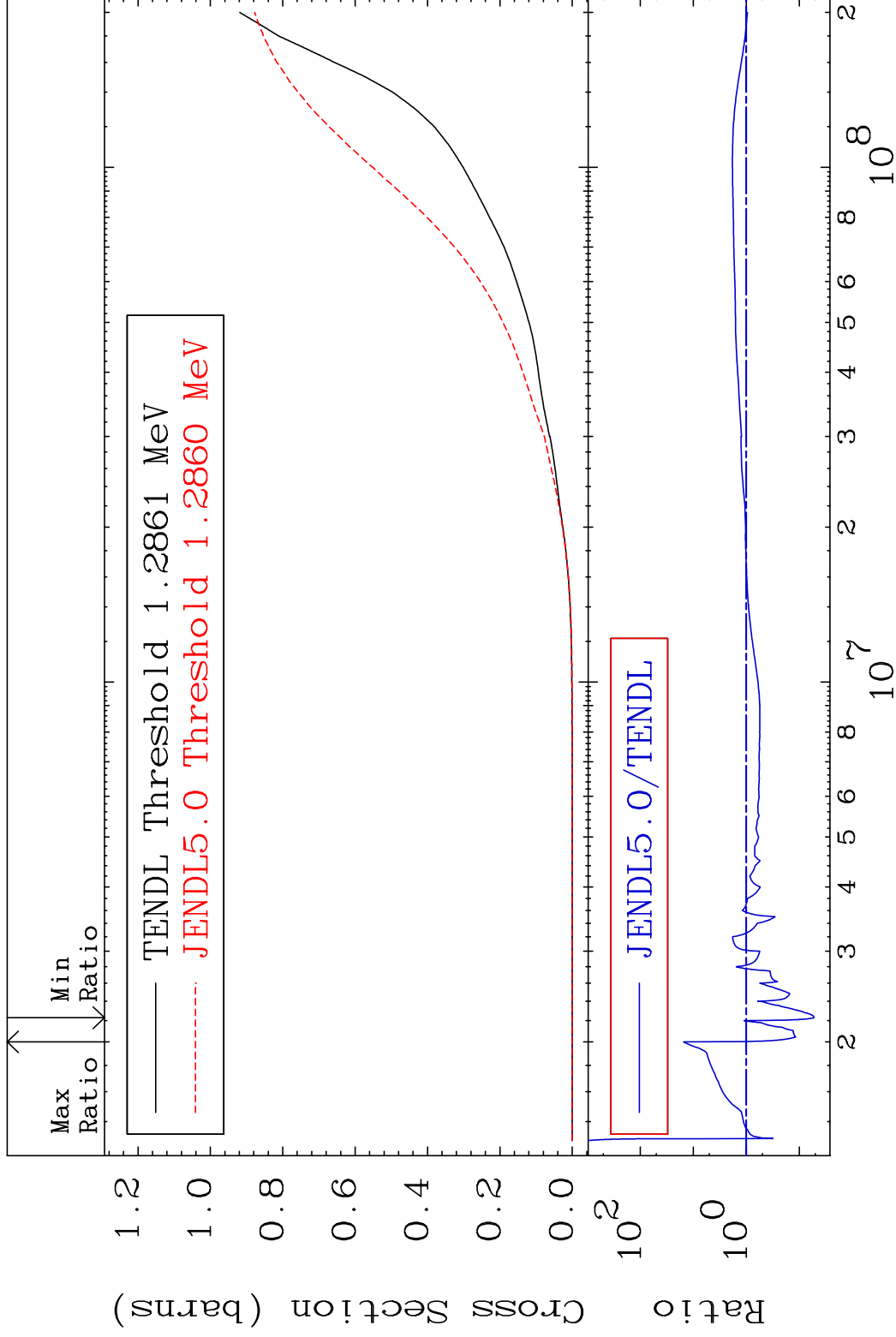
Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

56-Ba-134

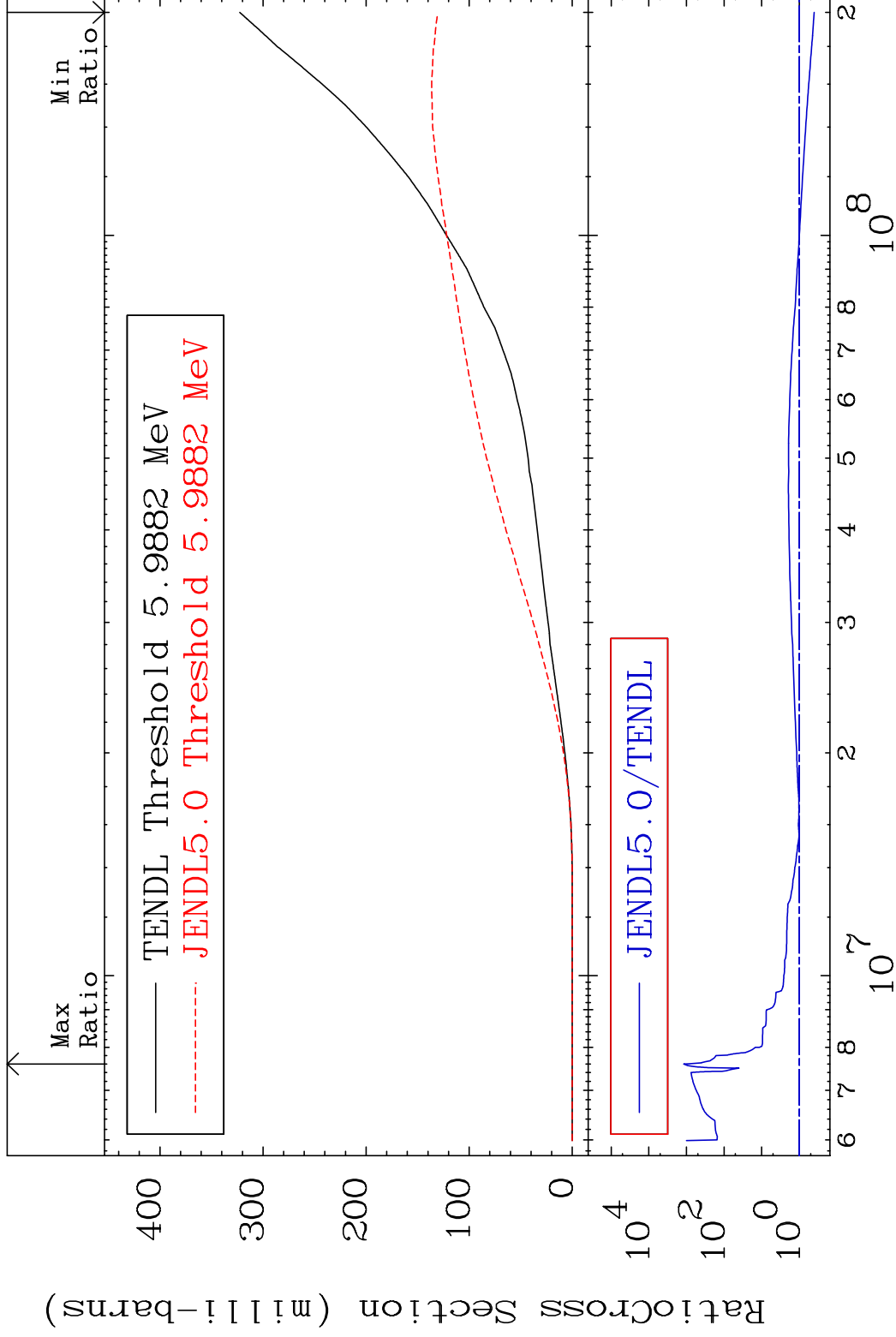


MAT 5637

Deuterium Production

56-Ba-134

Cross Section -59.54 To 9999. %



47

Incident Energy (eV)

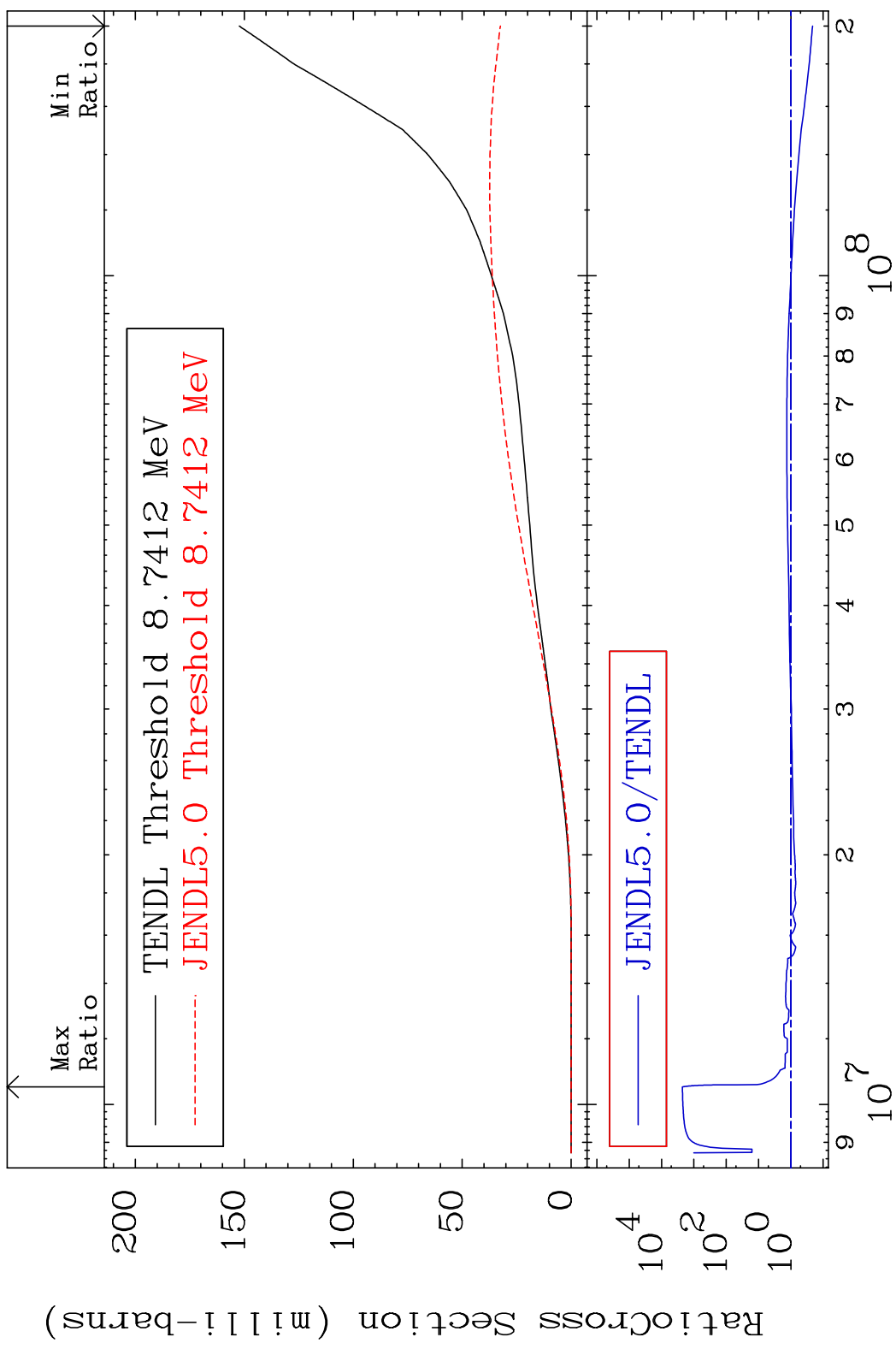
56-Ba-134

MAT 5637

Tritium Production

56-Ba-134

Cross Section -78.66 To 9999. %



48

Incident Energy (eV)

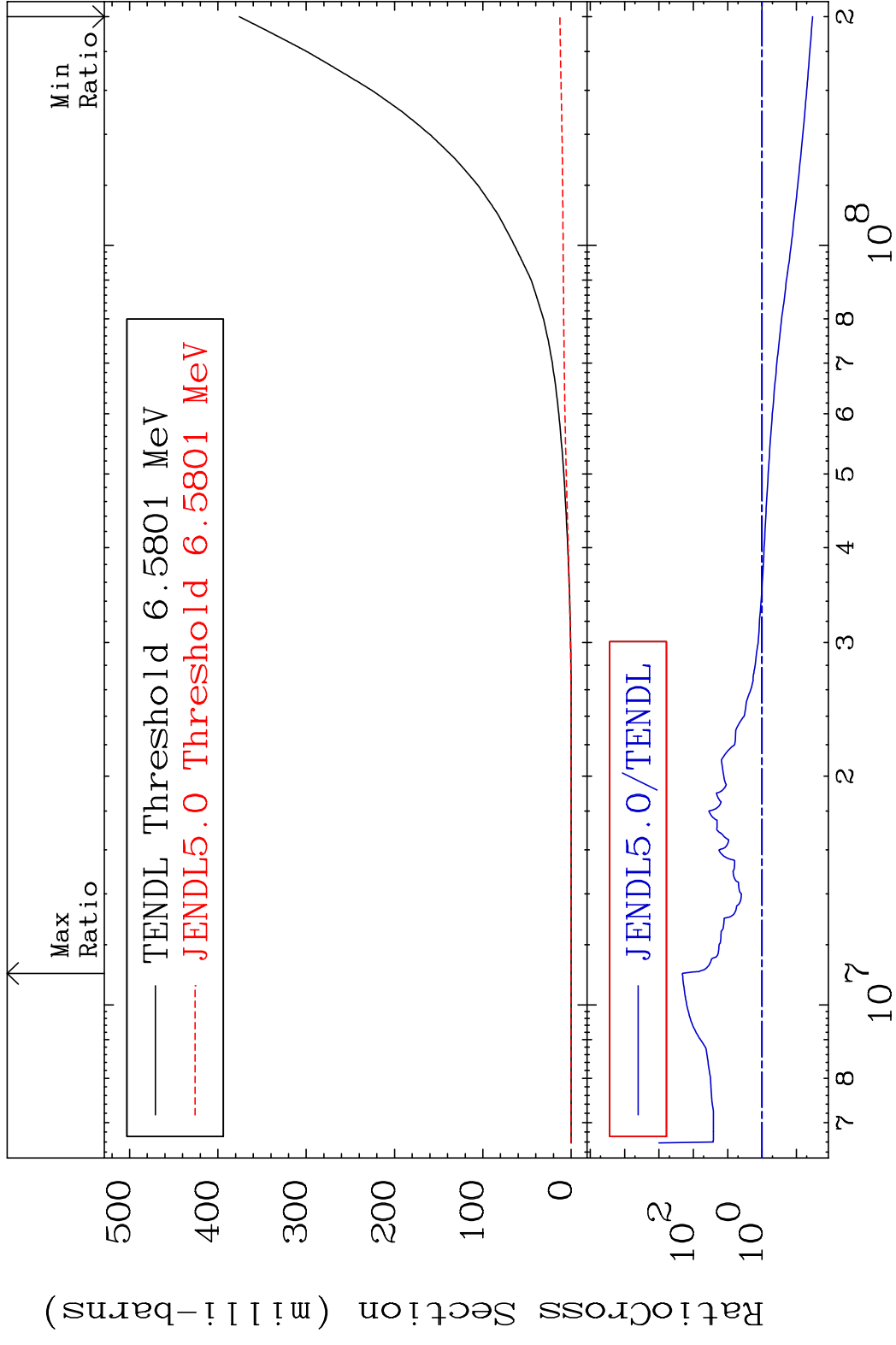
56-Ba-134

MAT 5637

He-3 Production

56-Ba-134

Cross Section -96.62 To 9999. %



49

Incident Energy (eV)

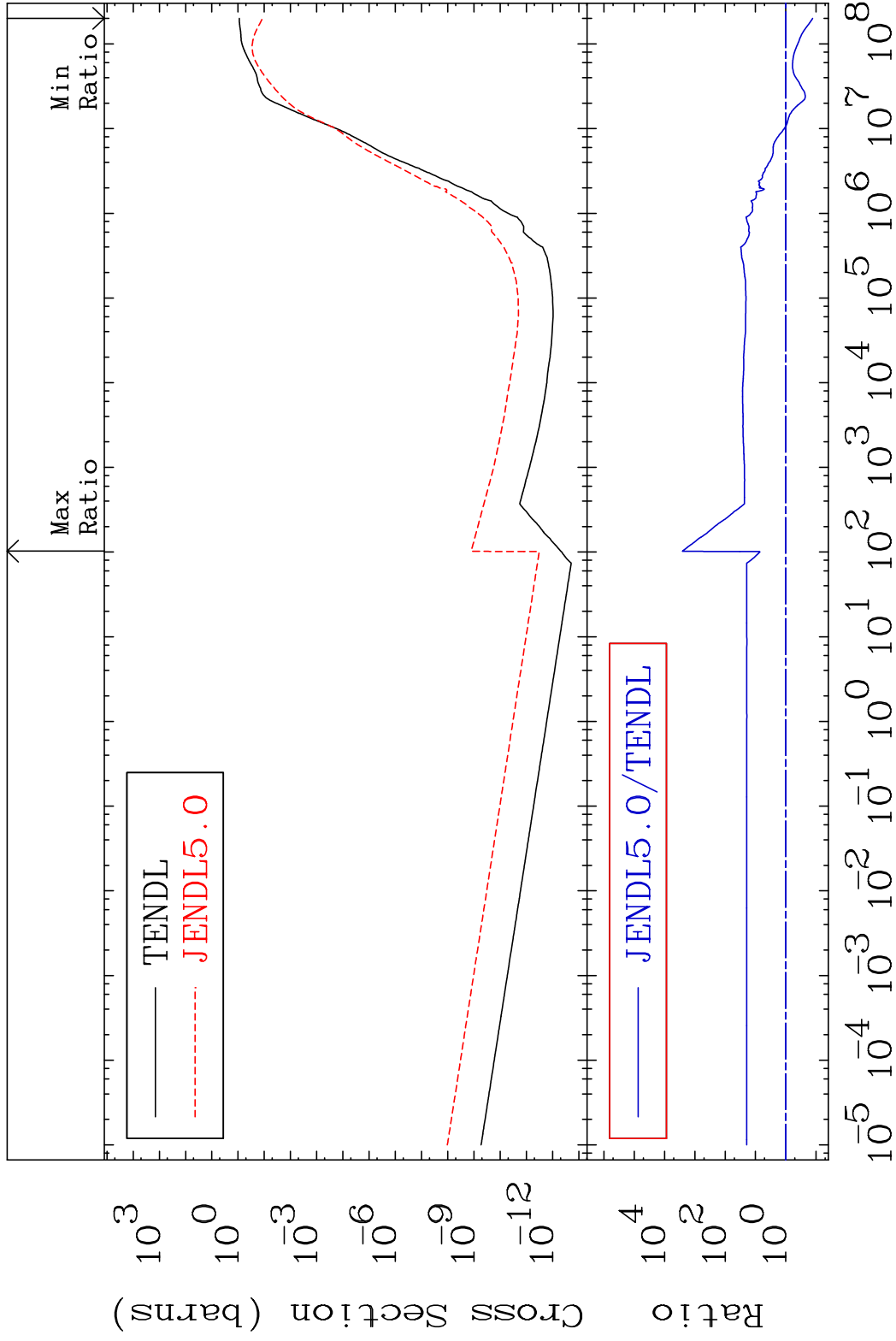
56-Ba-134

MAT 5637

He-4 Production

56-Ba-134

Cross Section -86.96 To 9999. %

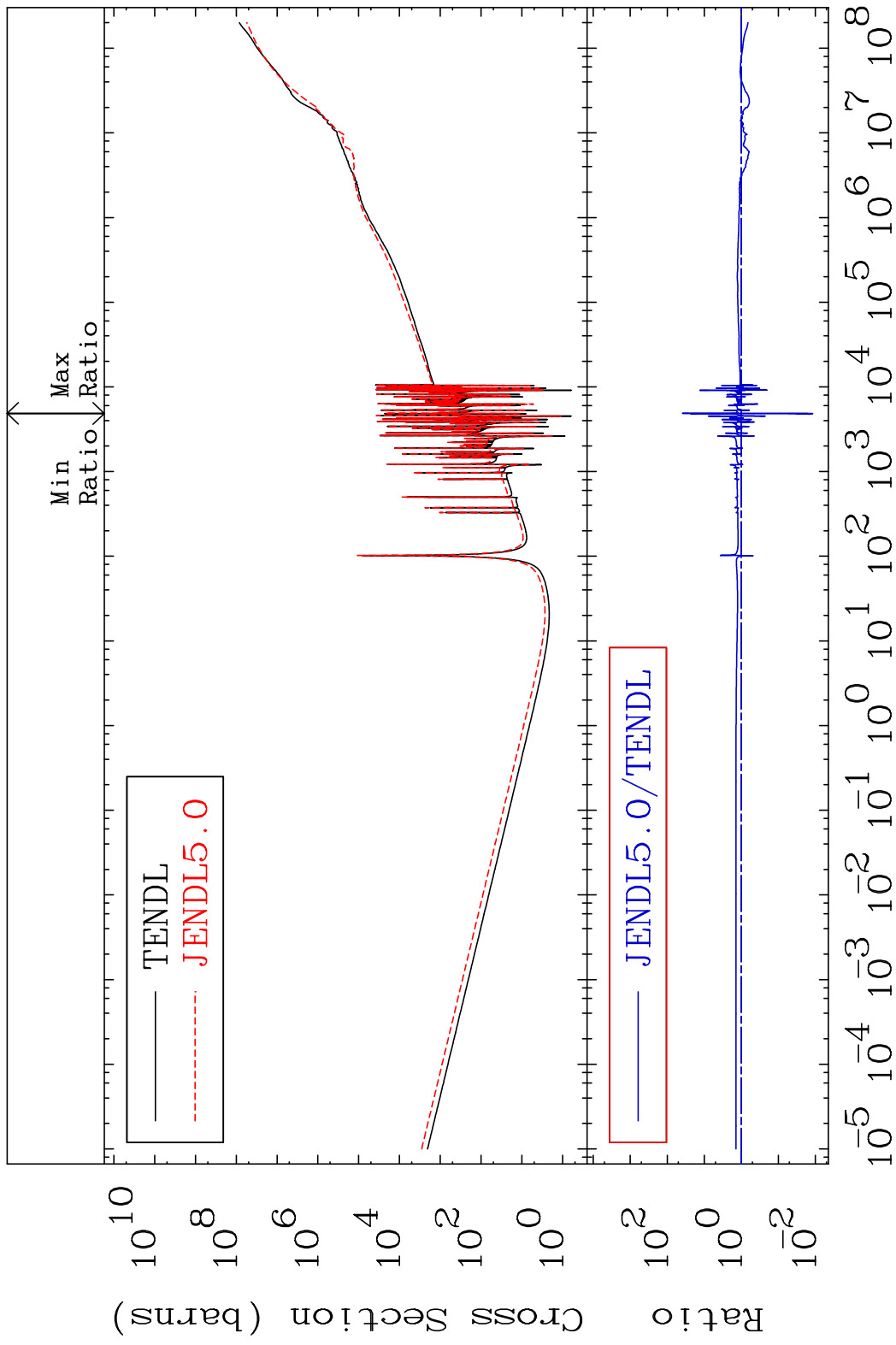


50

Incident Energy (eV)

56-Ba-134

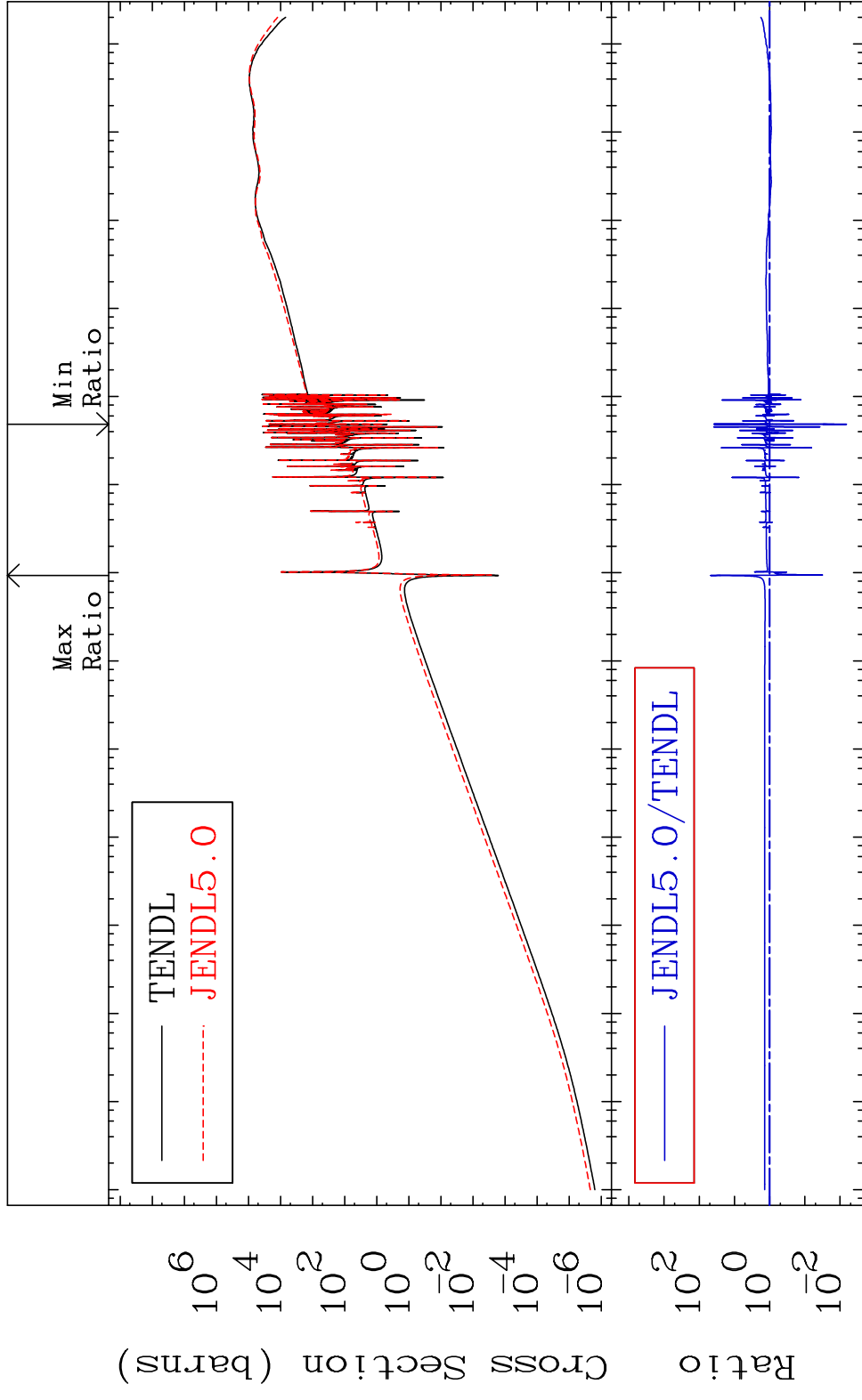
MAT 5637 Kerma total (eV-barns) 56-Ba-134
 Cross Section -98.81 To 3803. %



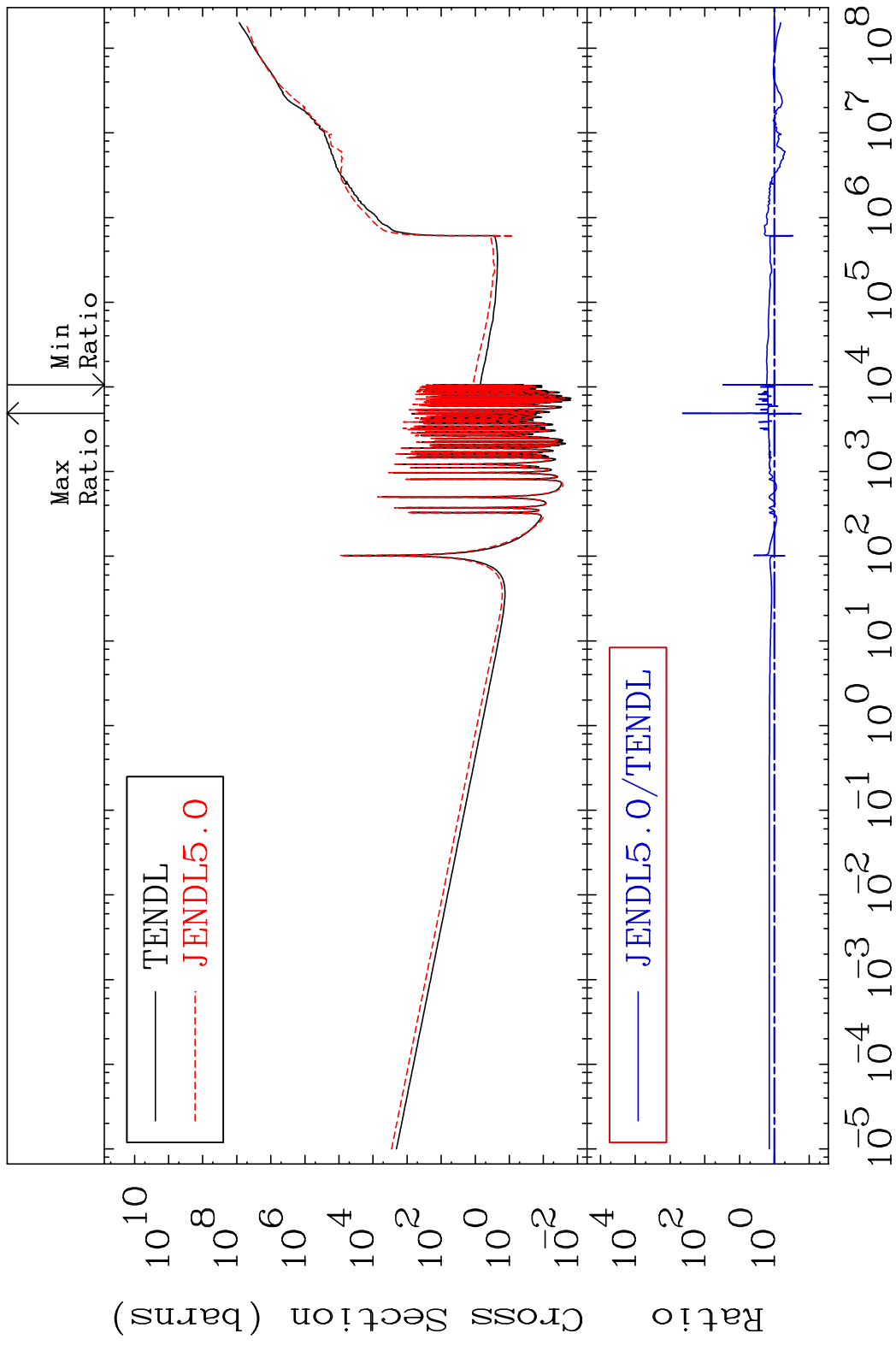
MAT 5637

Kerma elastic Cross Section -99.34 To 4621. %

56-Ba-134



MAT 5637 Kerma non-elastic (all but mt2) 56-Ba-134
 Cross Section -92.04 To 9999. %

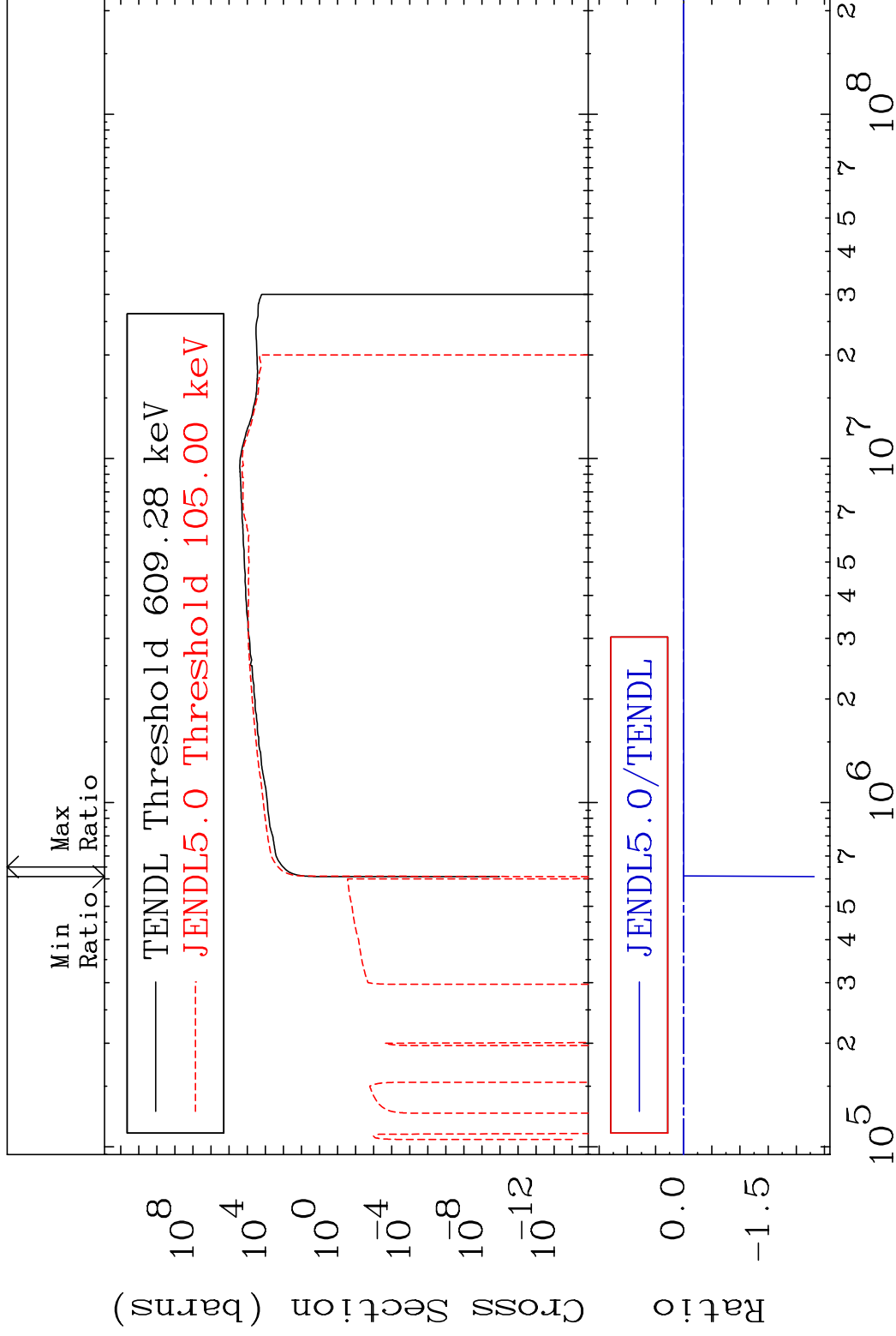


53 Incident Energy (eV) 56-Ba-134

MAT 5637

Kerma inelastic (mt51-91) 56-Ba-134

Cross Section -9999. To 92.87 %

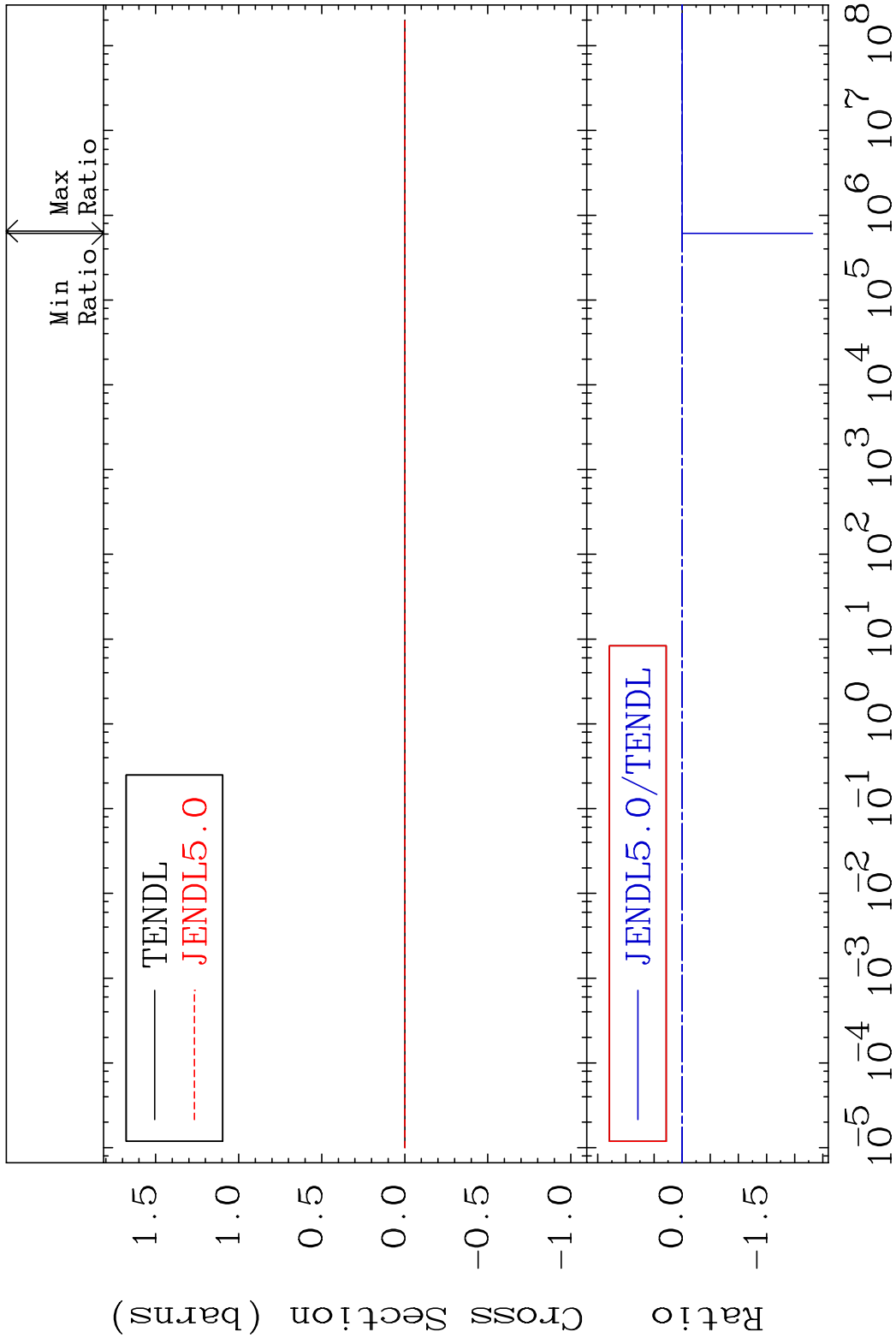


54

Incident Energy (eV)

56-Ba-134

MAT 5637 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-134
 Cross Section -9999. To 92.87 %

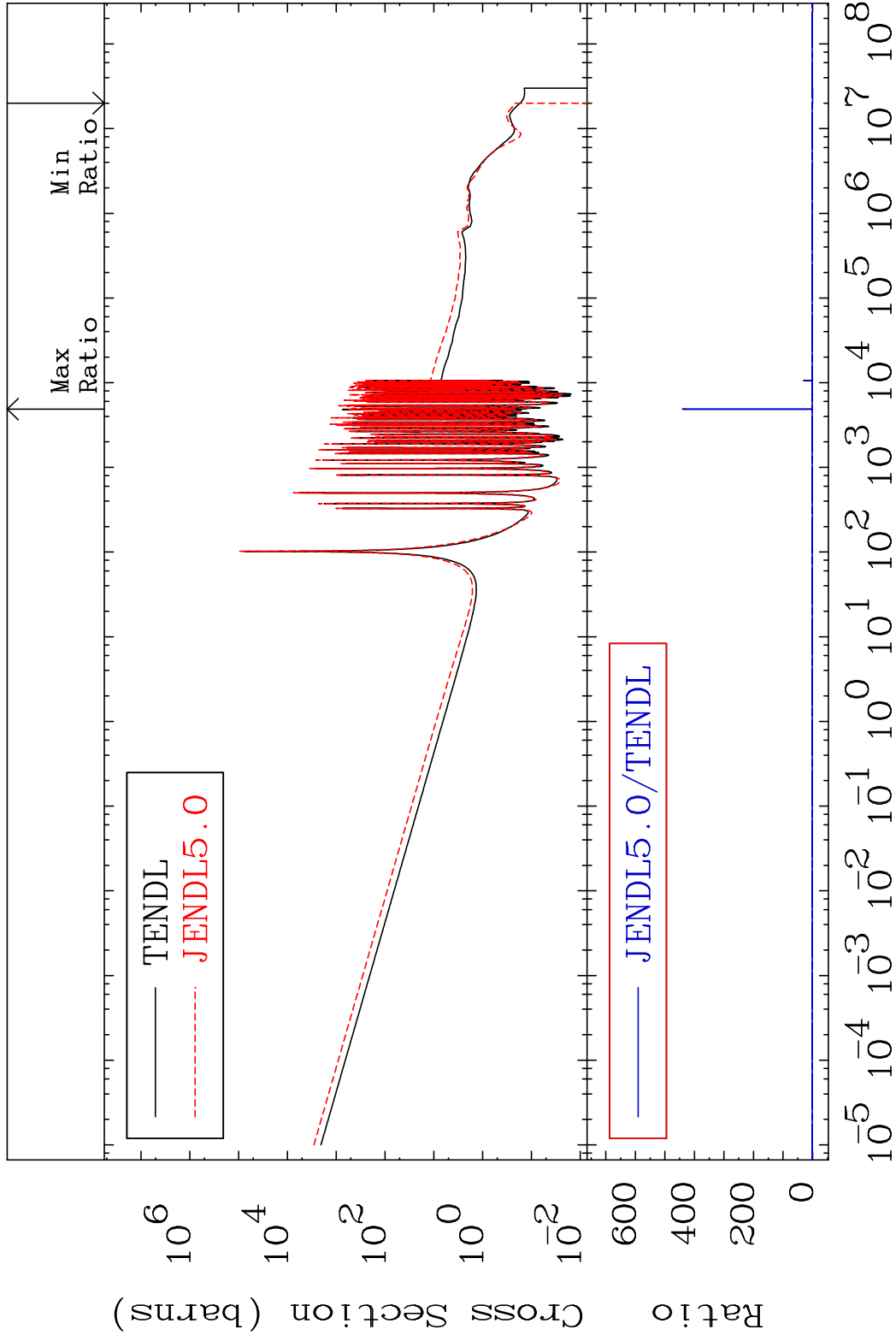


MAT 5637

Kerma capture (mt102)

56-Ba-134

Cross Section -100.0 To 9999. %



56

Incident Energy (eV)

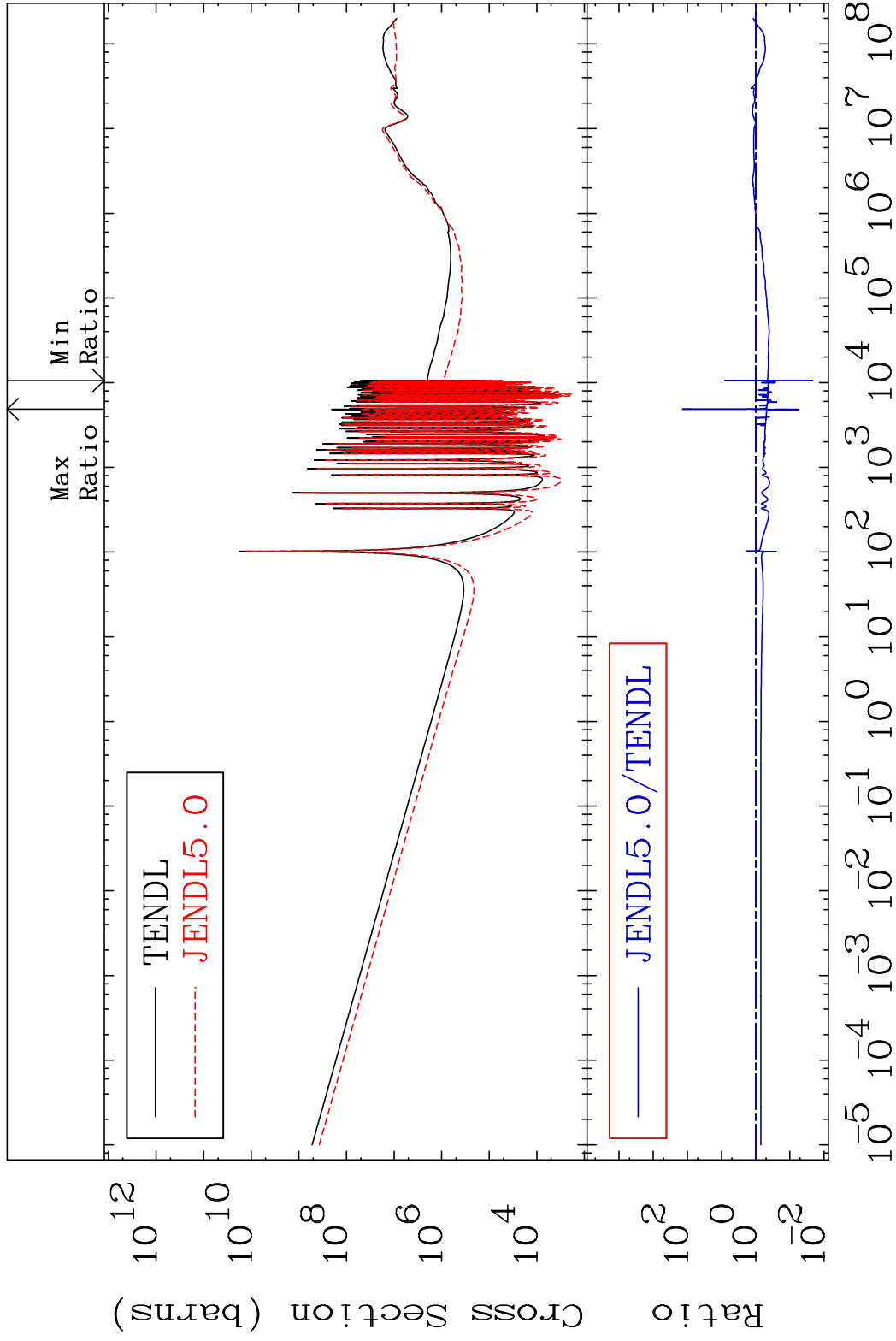
56-Ba-134

MAT 5637

Total photon (eV-barns)

56-Ba-134

Cross Section -97.83 To 9999. %

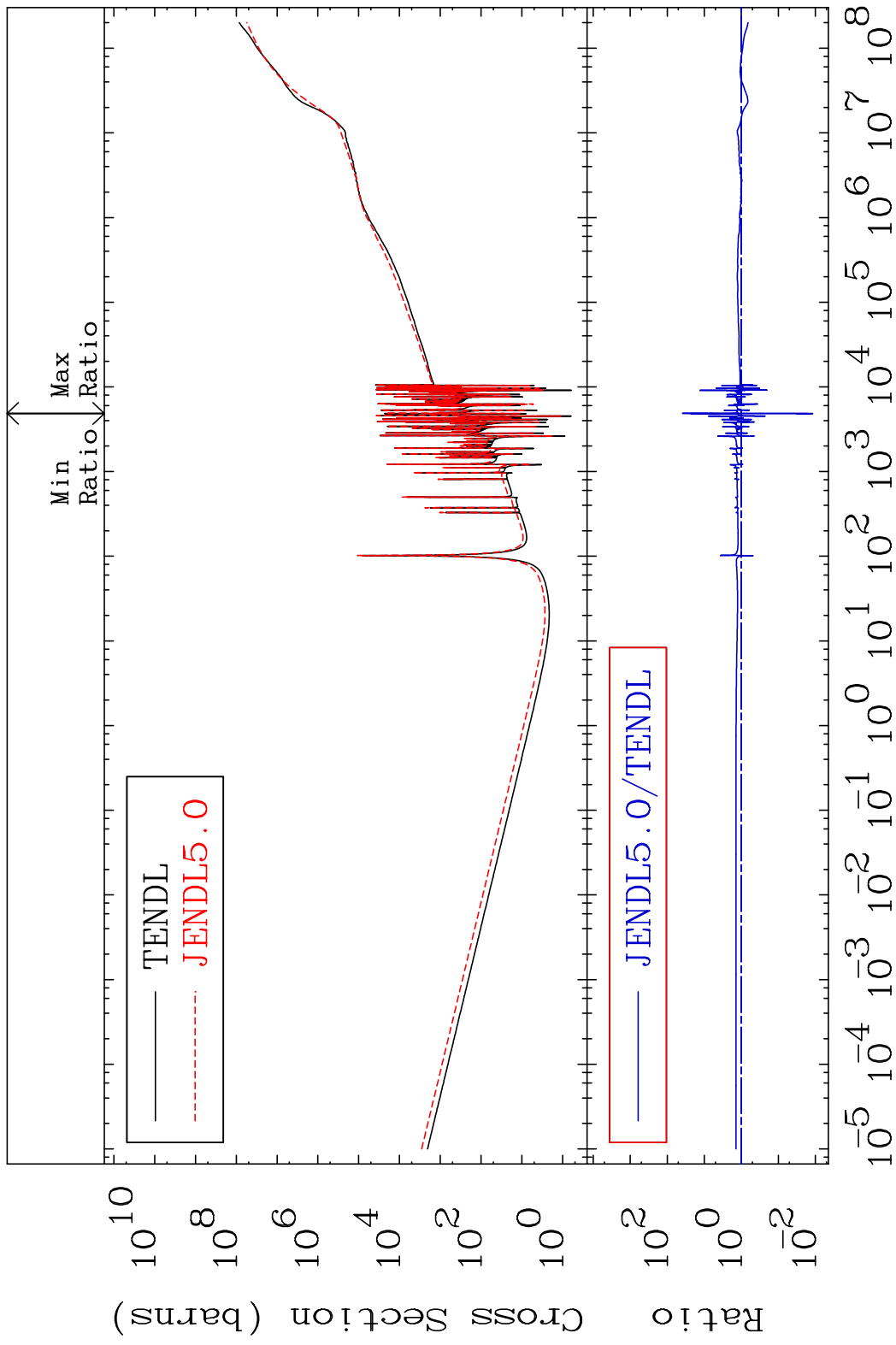


57

Incident Energy (eV)

56-Ba-134

MAT 5637 Total kinematic kerma (high limit) 56-Ba-134
 Cross Section -98.81 To 3803. %

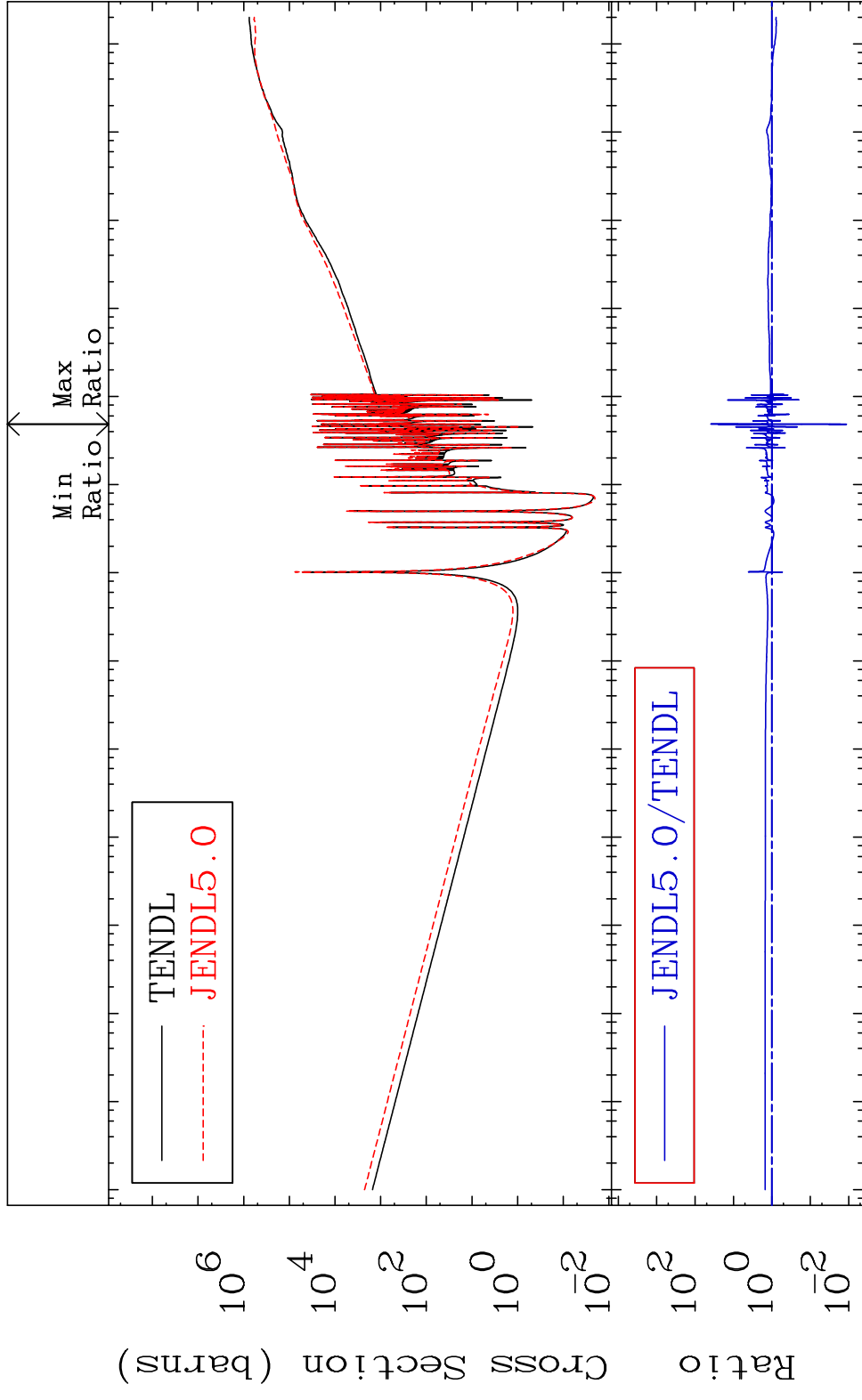


MAT 5637

Dpa total (eV-barns)

56-Ba-134

Cross Section -98.85 To 3817. %



59

Incident Energy (eV)

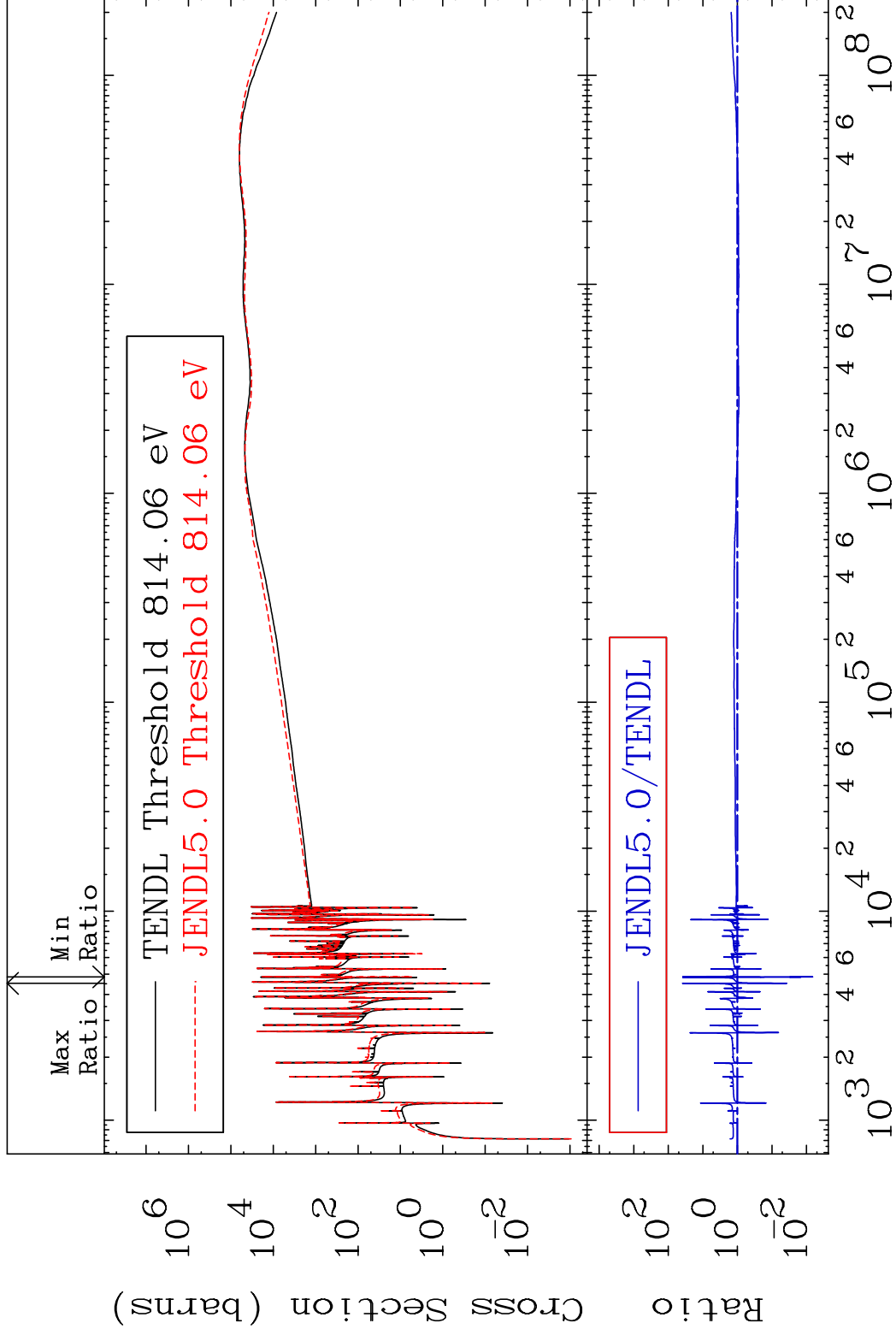
56-Ba-134

MAT 5637

Dpa elastic (mt2)

56-Ba-134

Cross Section -99.33 To 3826. %



60

Incident Energy (eV)

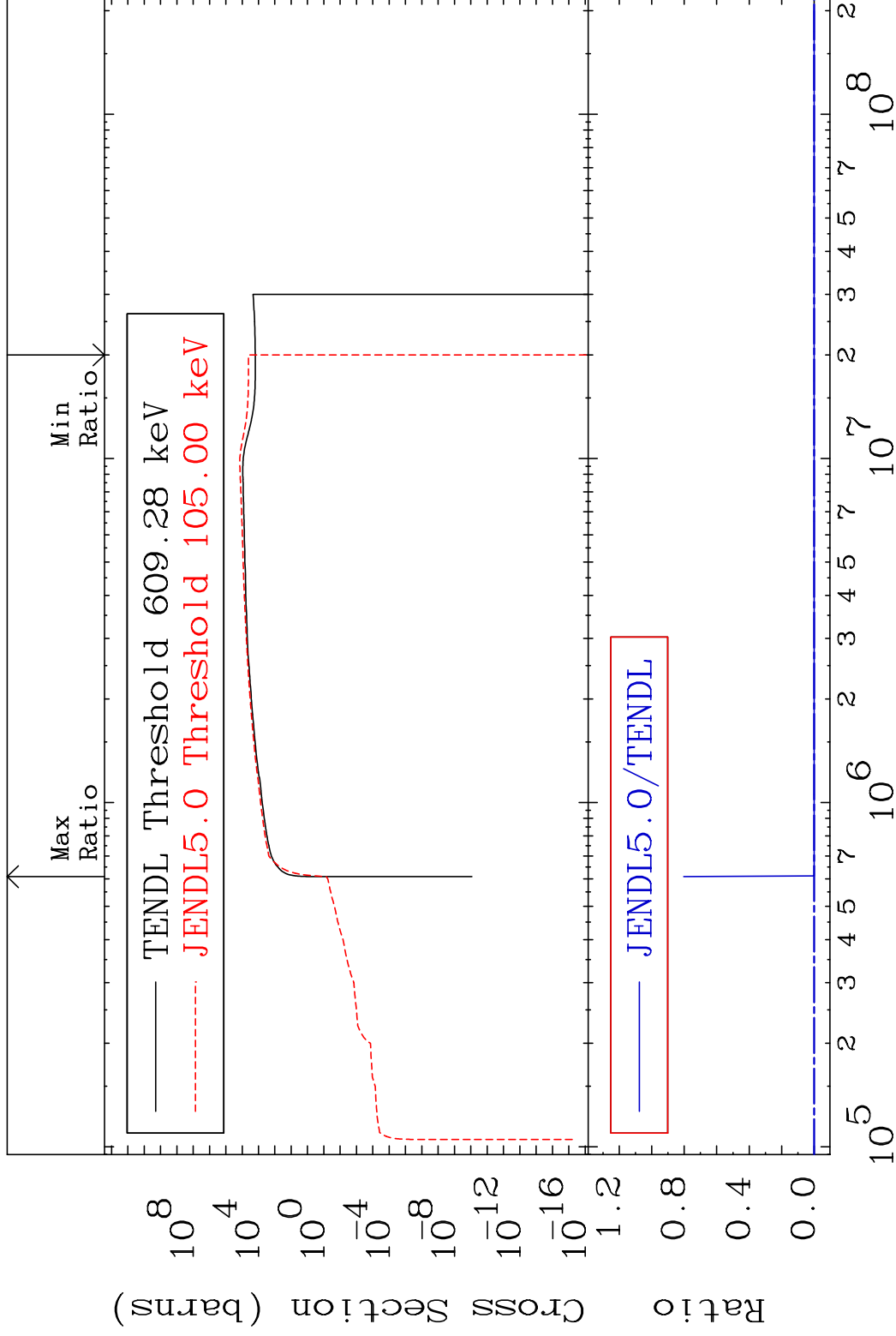
56-Ba-134

MAT 5637

Dpa inelastic (mt51-91)

56-Ba-134

Cross Section -100.0 To 9999. %

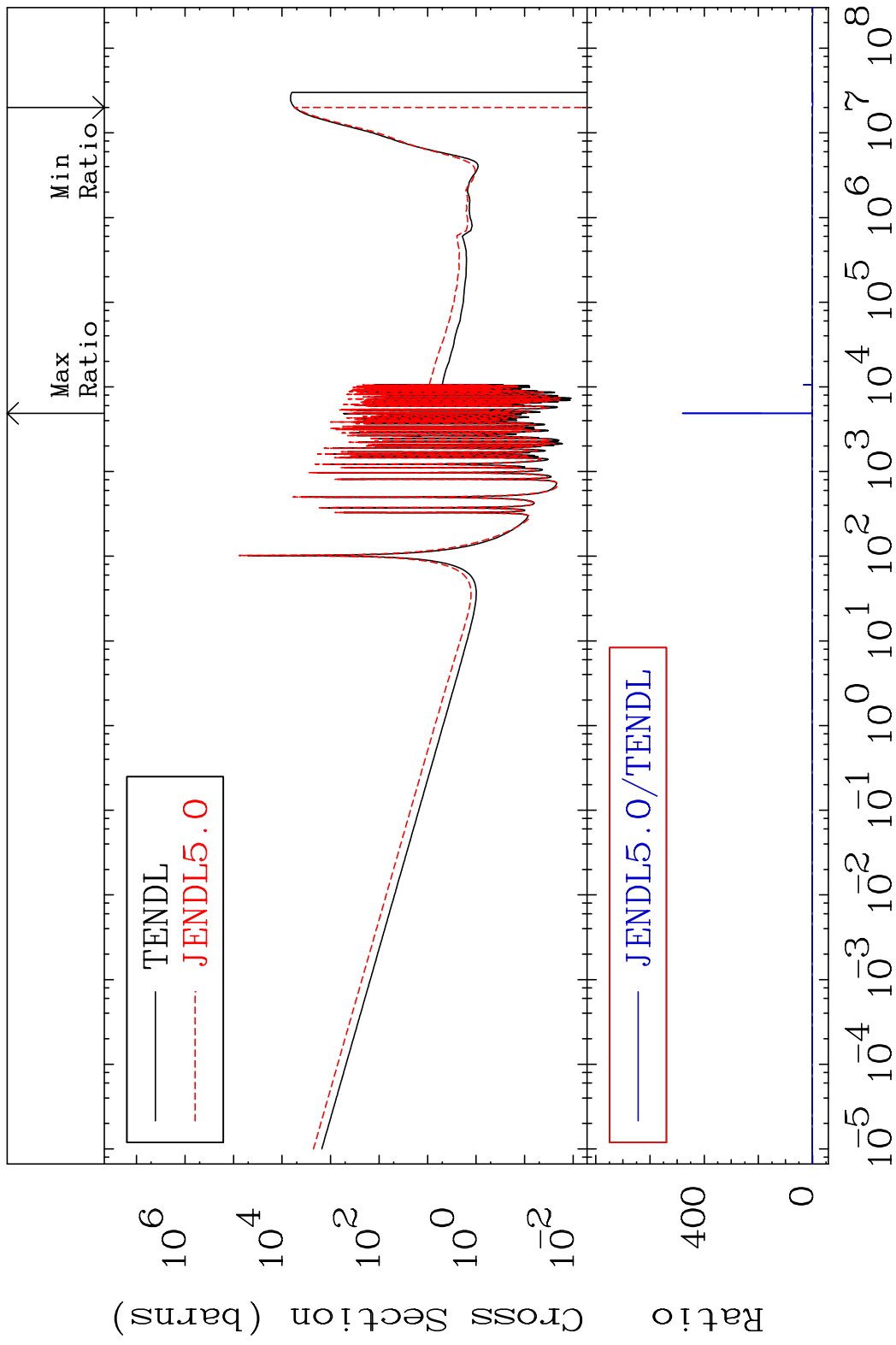


61

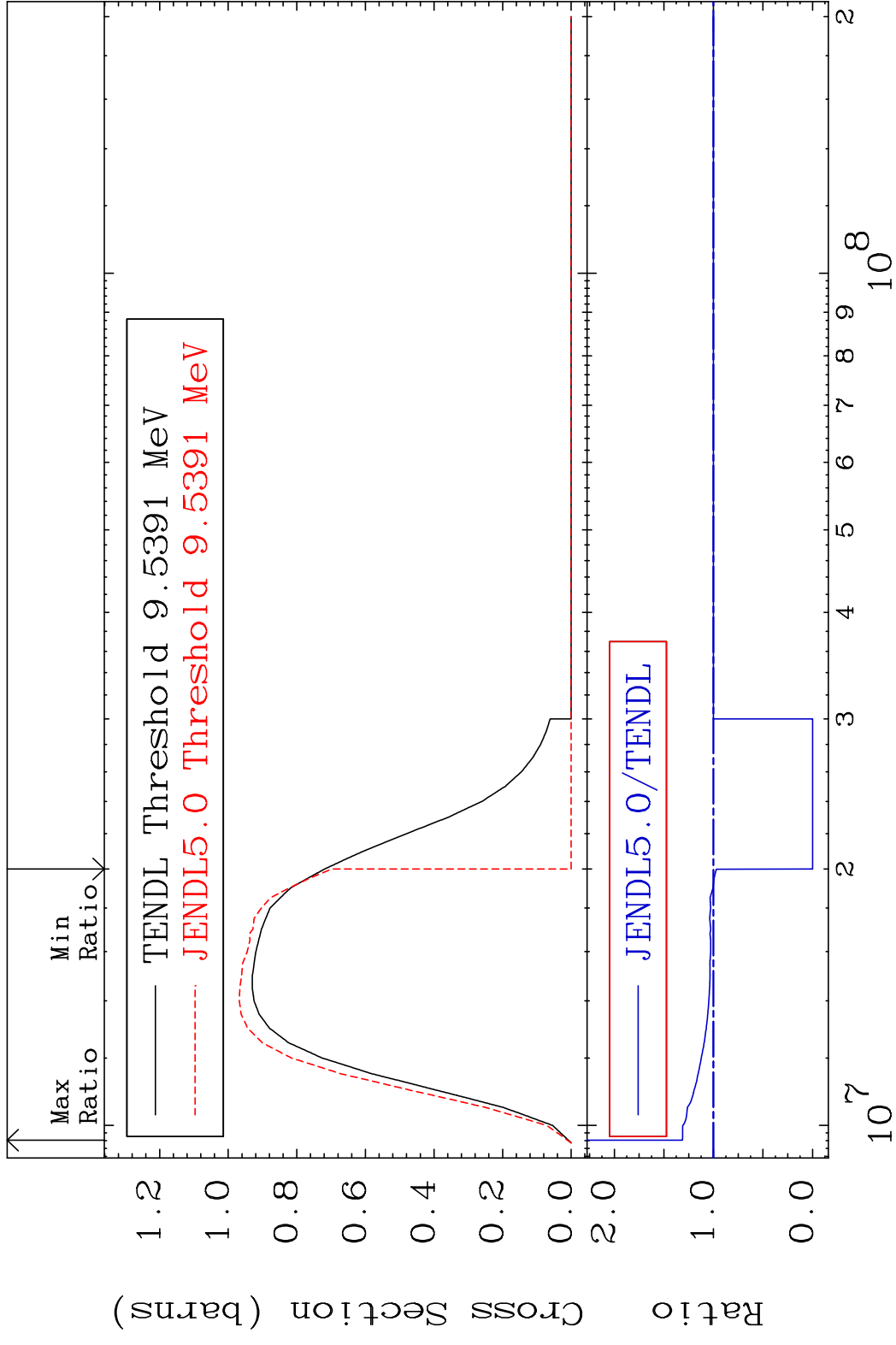
Incident Energy (eV)

56-Ba-134

MAT 5637 Dpa disappearance (mt102 -120) 56-Ba-134
 Cross Section -100.0 To 9999. %

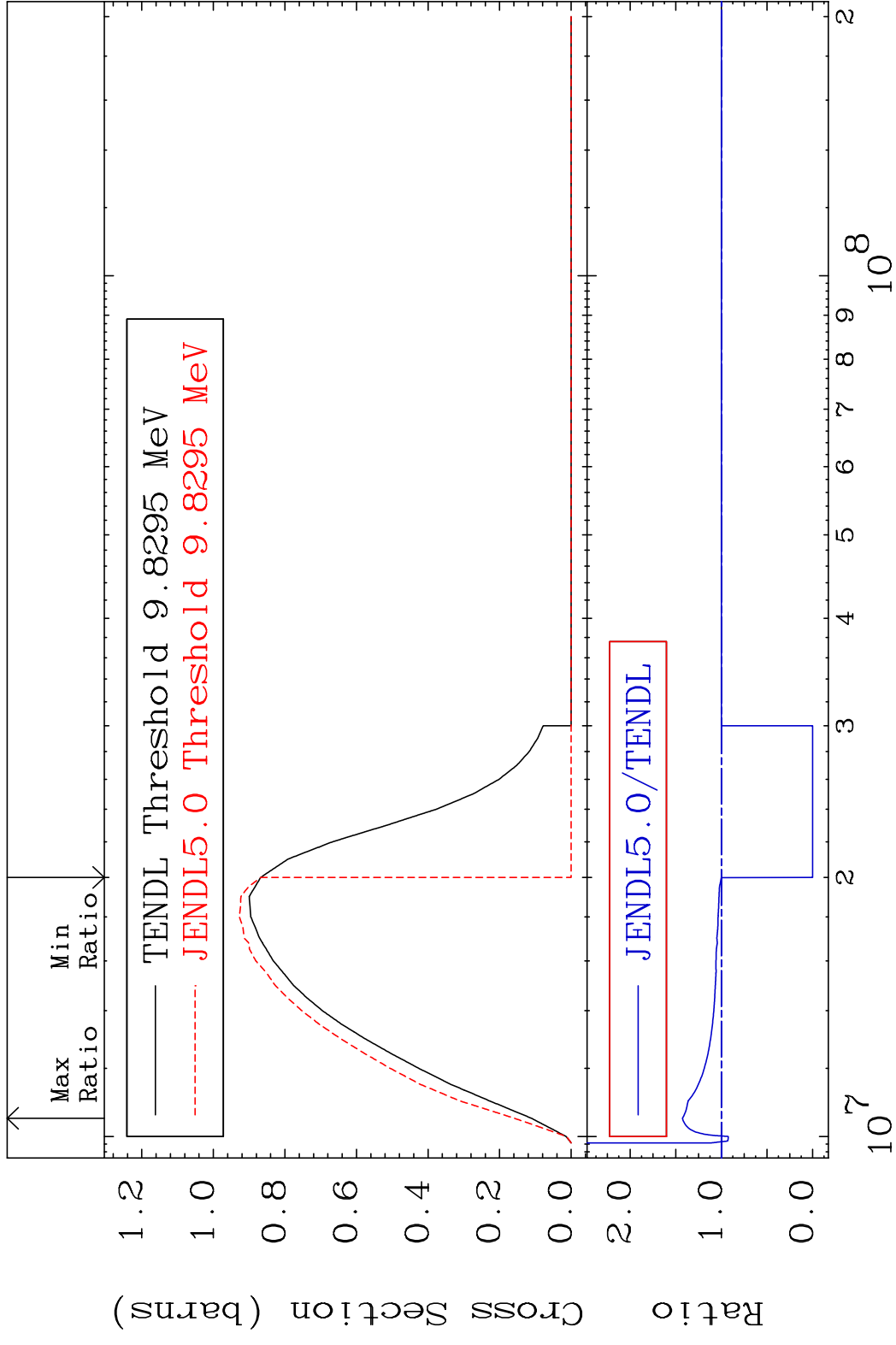


MAT 5637 (n,2n):56-Ba-133g 56-Ba-134
 Radionuclide Production Cross Section 180.01 dth 31.37 %

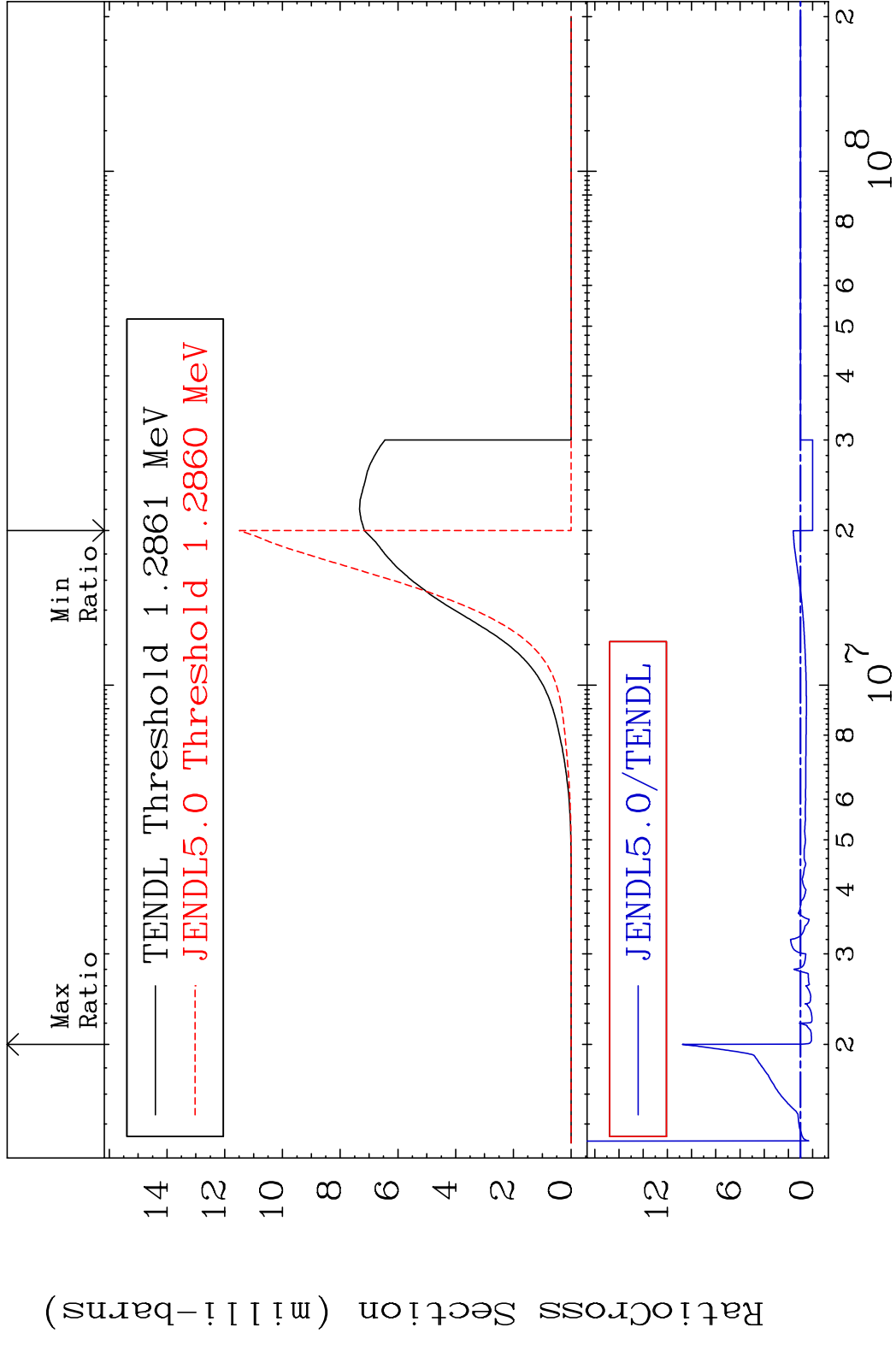


63 Incident Energy (eV) 56-Ba-134

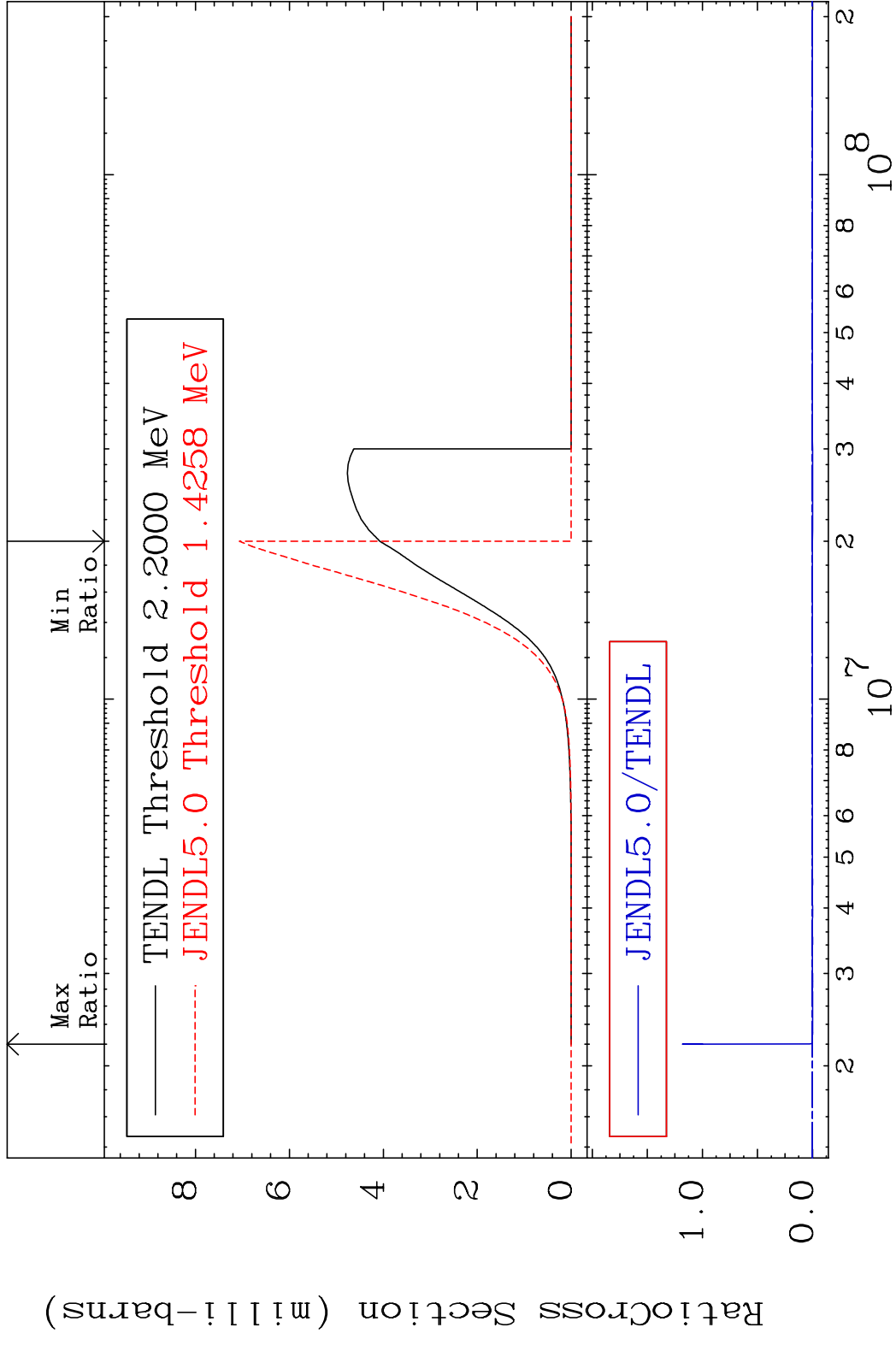
MAT 5637 (n, 2n): 56-Ba-133m2 56-Ba-134
 Radionuclide Production Cross Section 180.01 dth 42.77 %



64 Incident Energy (eV) 56-Ba-134



MAT 5637 (n, p):55-Cs-134m3 56-Ba-134
 Radionuclide Production Cross Section (%)

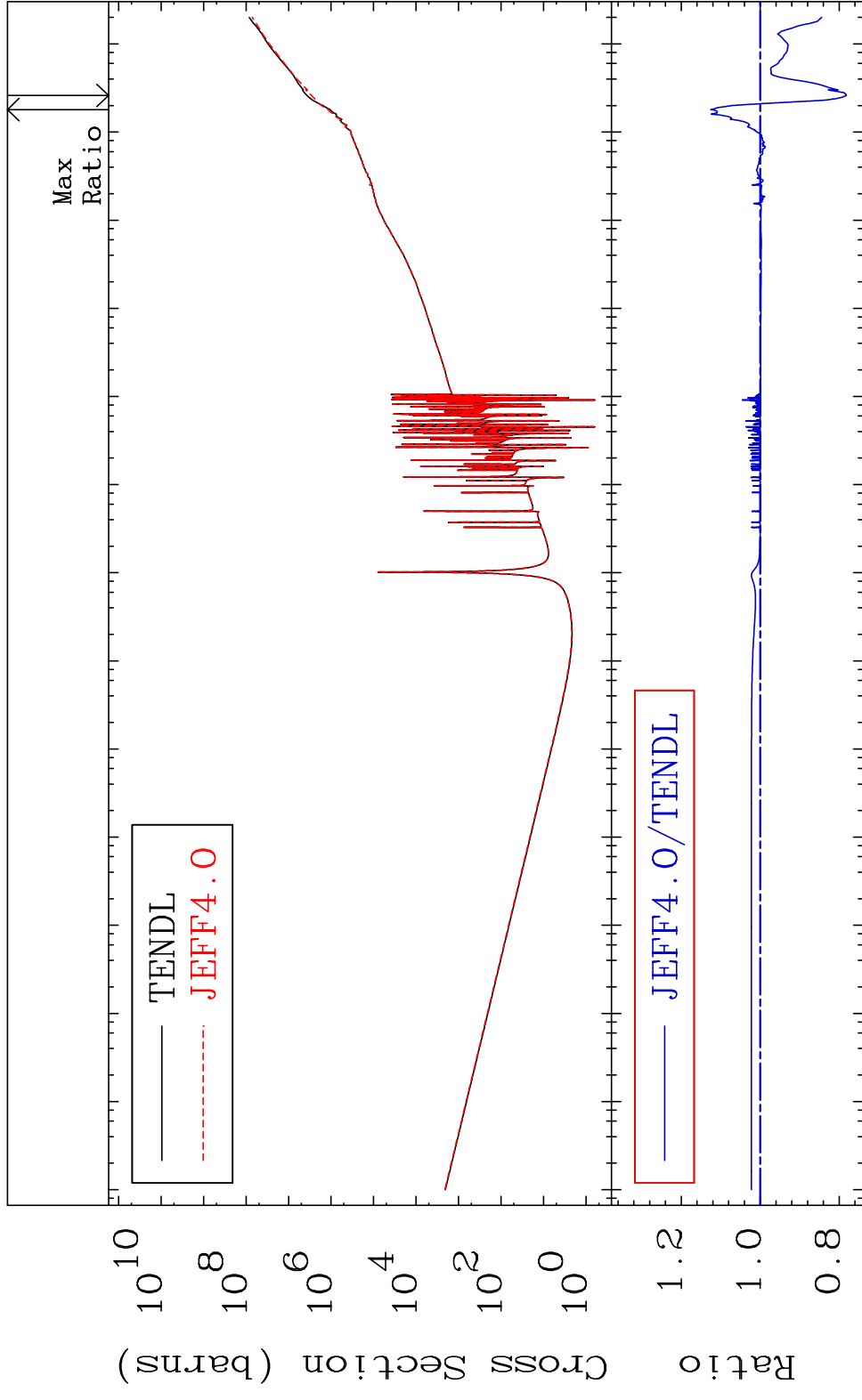


MAT 5637

Kerma total (eV-barns)

56-Ba-134

Cross Section -21.80 To 12.53 %



67

Incident Energy (eV)

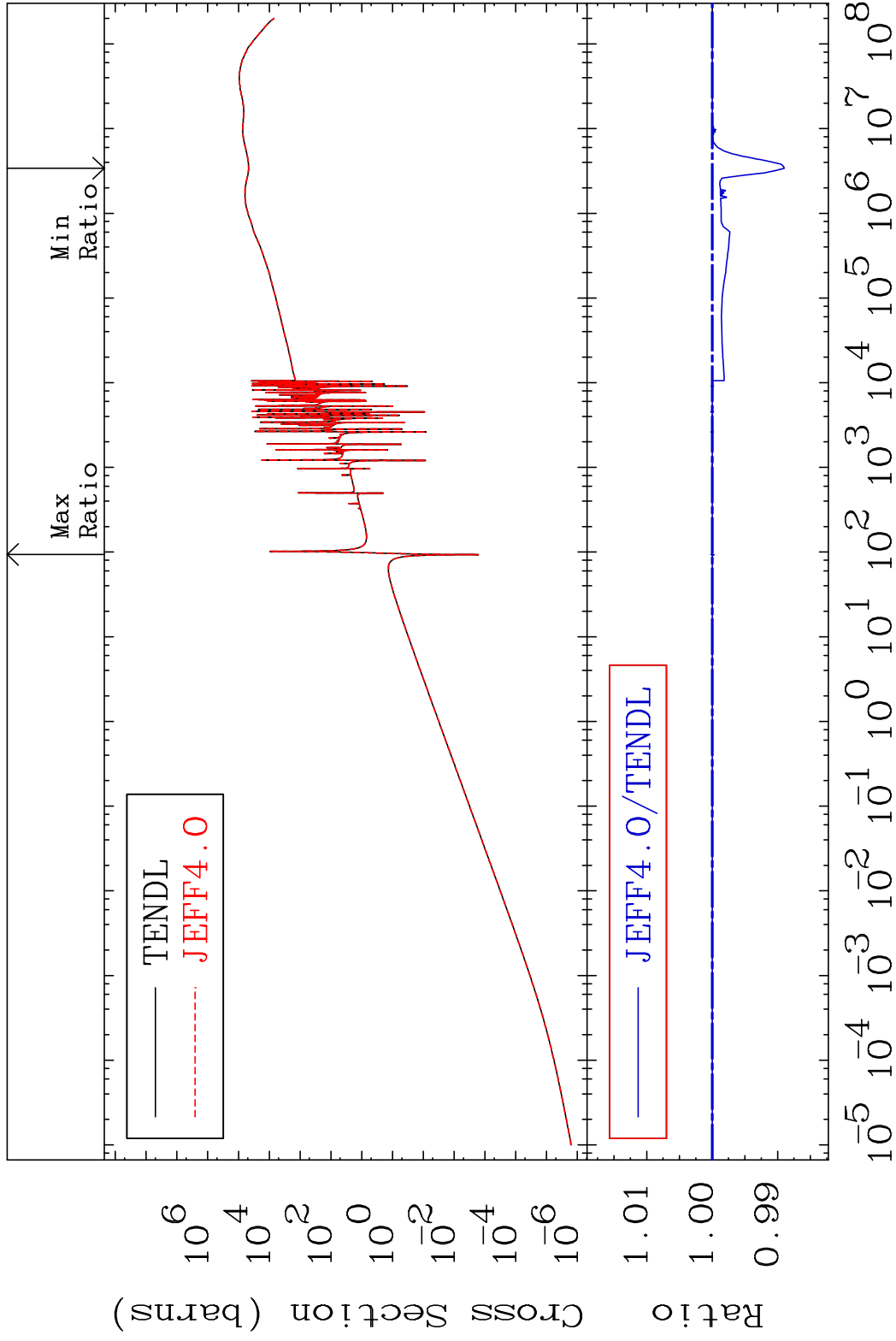
56-Ba-134

MAT 5637

Kerma elastic

56-Ba-134

Cross Section -1.103 To 0.025 %

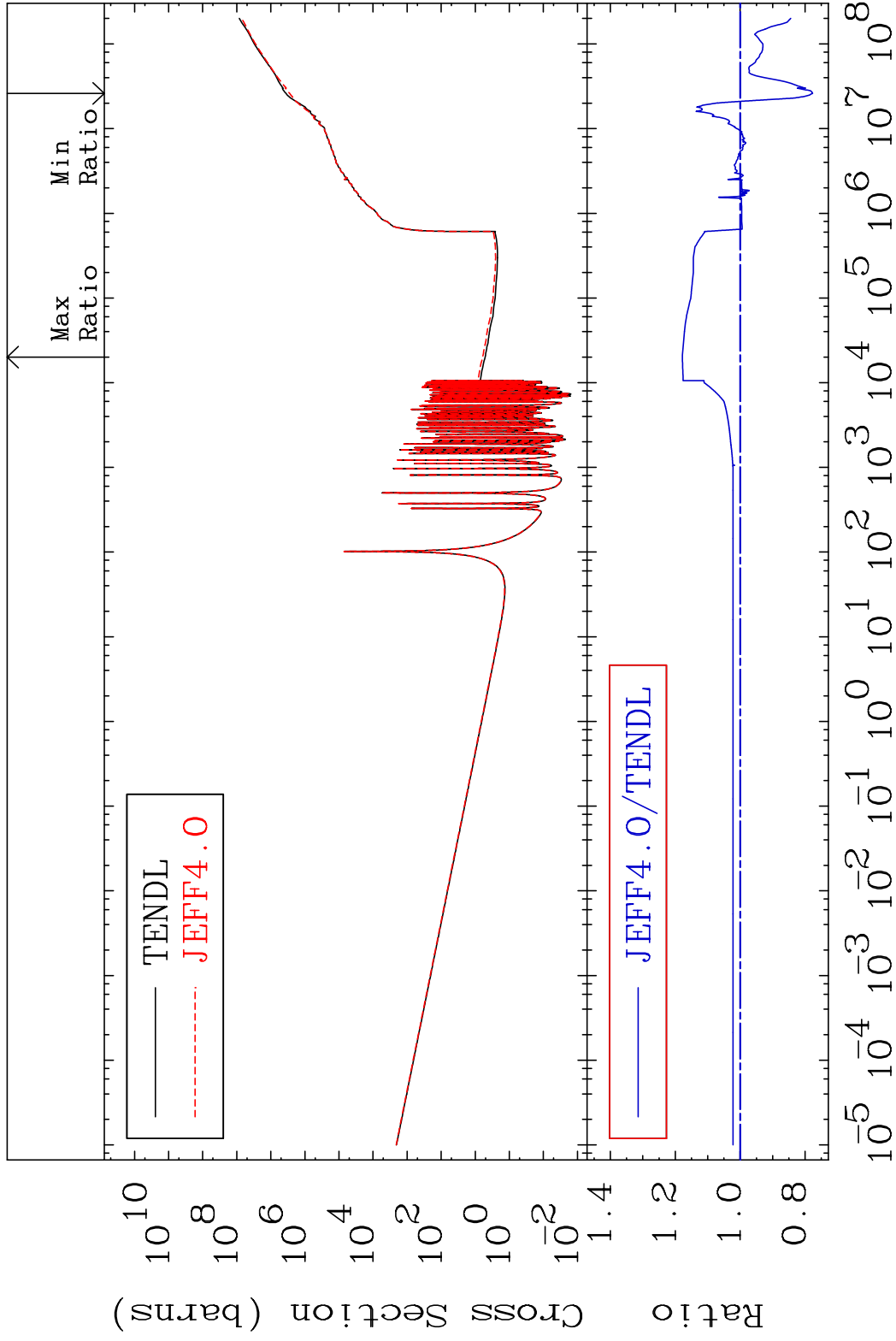


68

Incident Energy (eV)

56-Ba-134

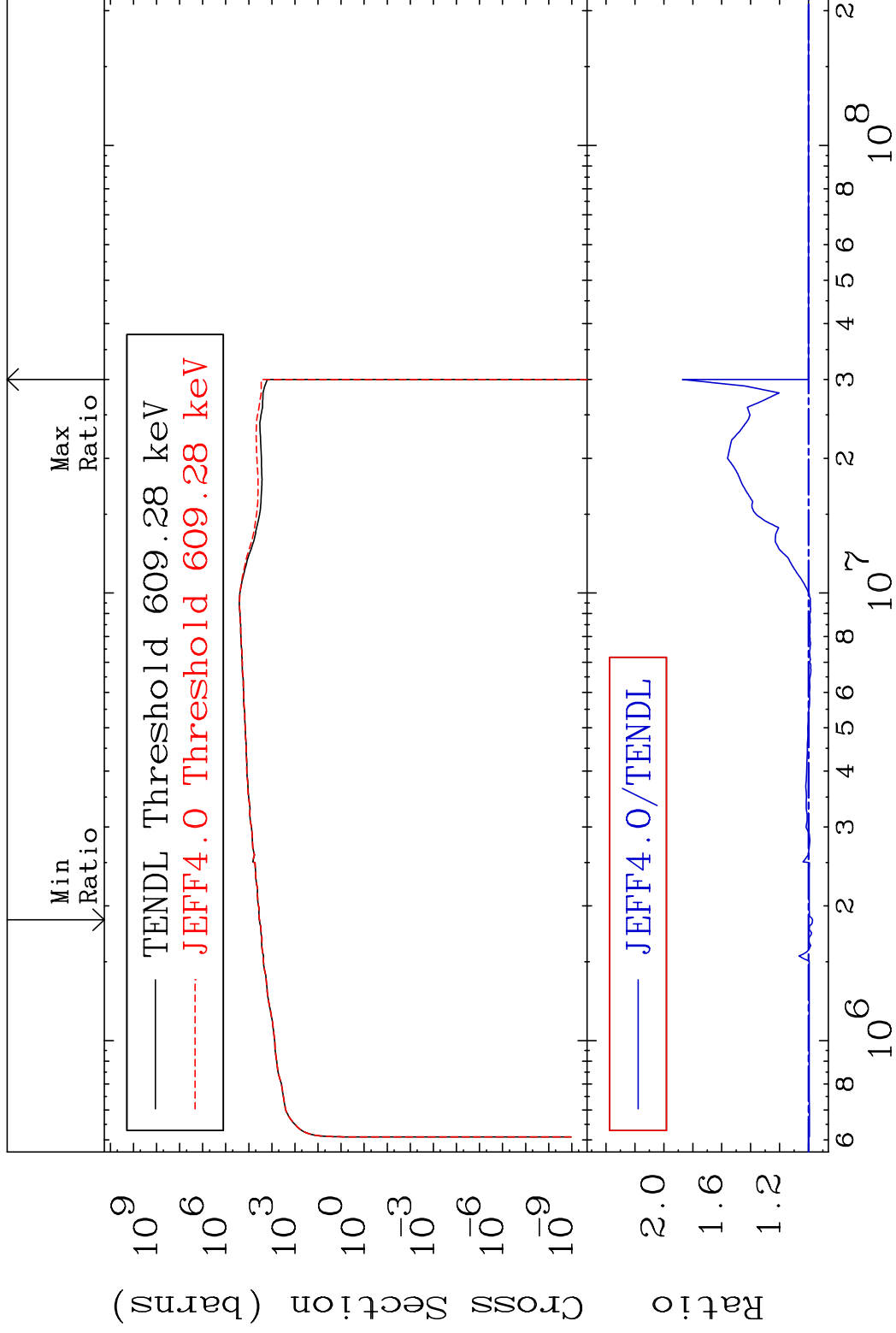
MAT 5637 Kerma non-elastic (all but mt2) 56-Ba-134
 Cross Section -22.30 To 17.82 %



MAT 5637

Kerma inelastic (mt51-91) 56-Ba-134

Cross Section -2.809 To 87.20 %

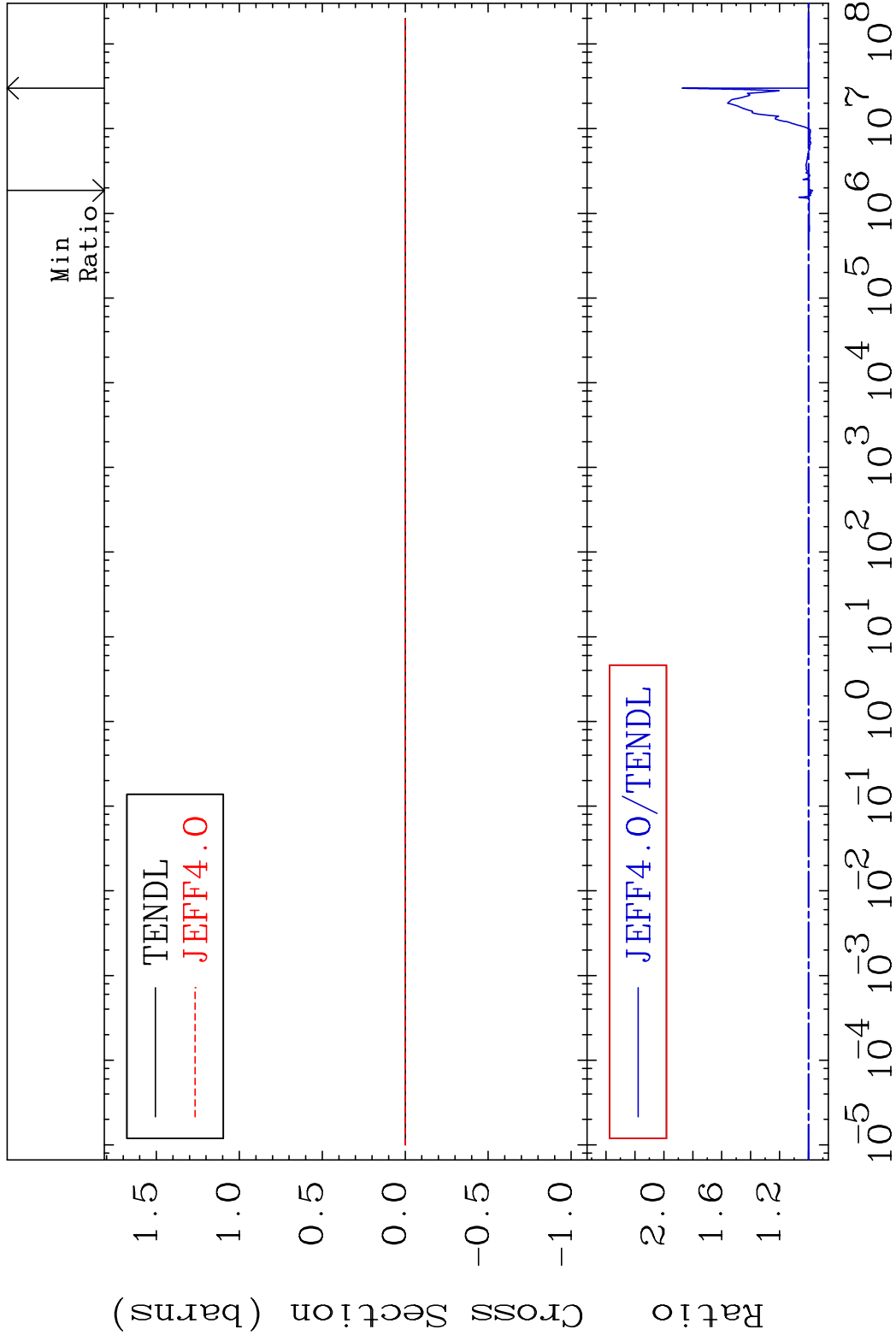


70

Incident Energy (eV)

56-Ba-134

MAT 5637 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-134
 Cross Section -2.809 To 87.20 %



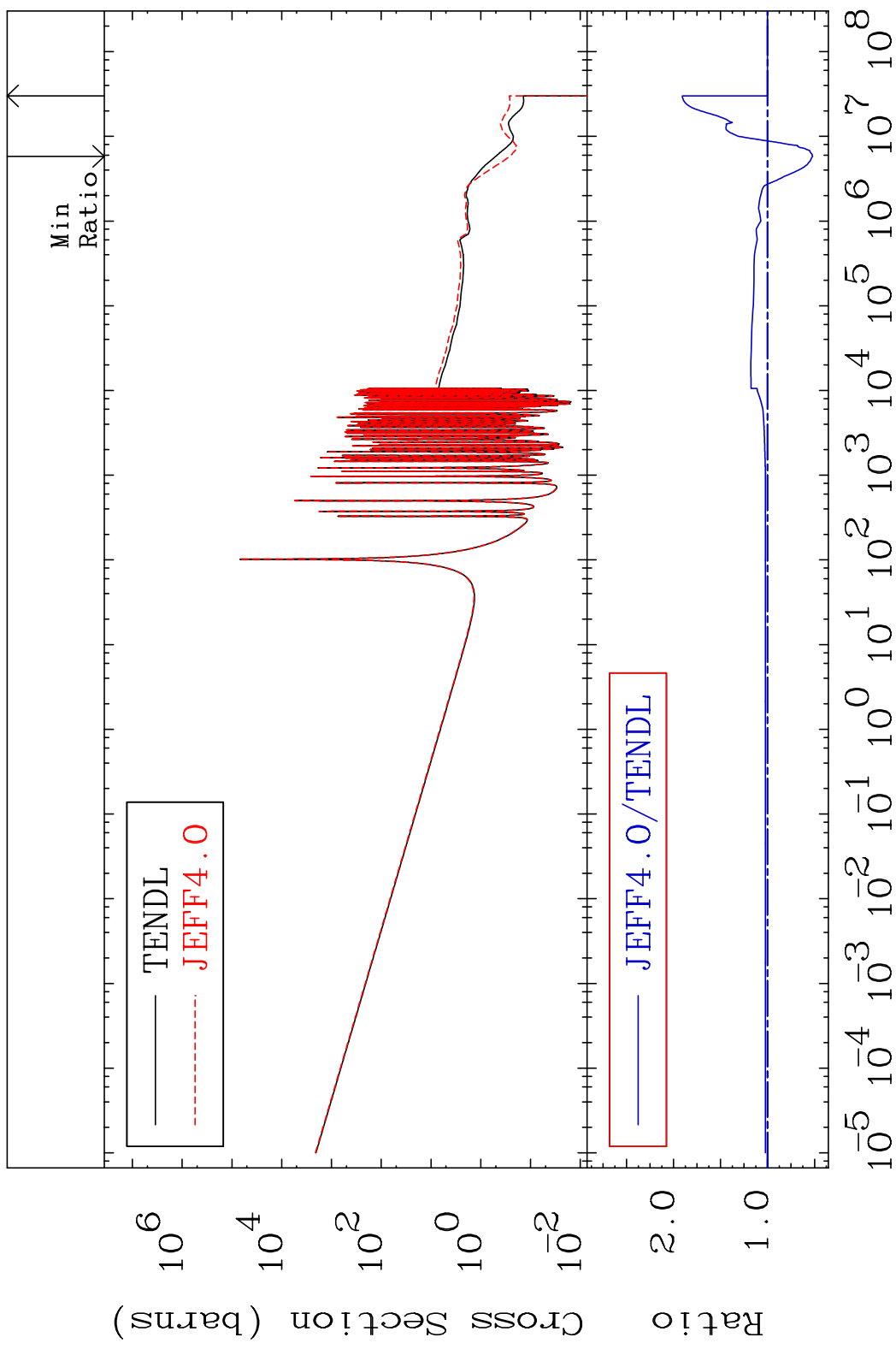
MAT 5637

Kerma capture (mt102)

56-Ba-134

Cross Section

-47.88 To 90.66 %

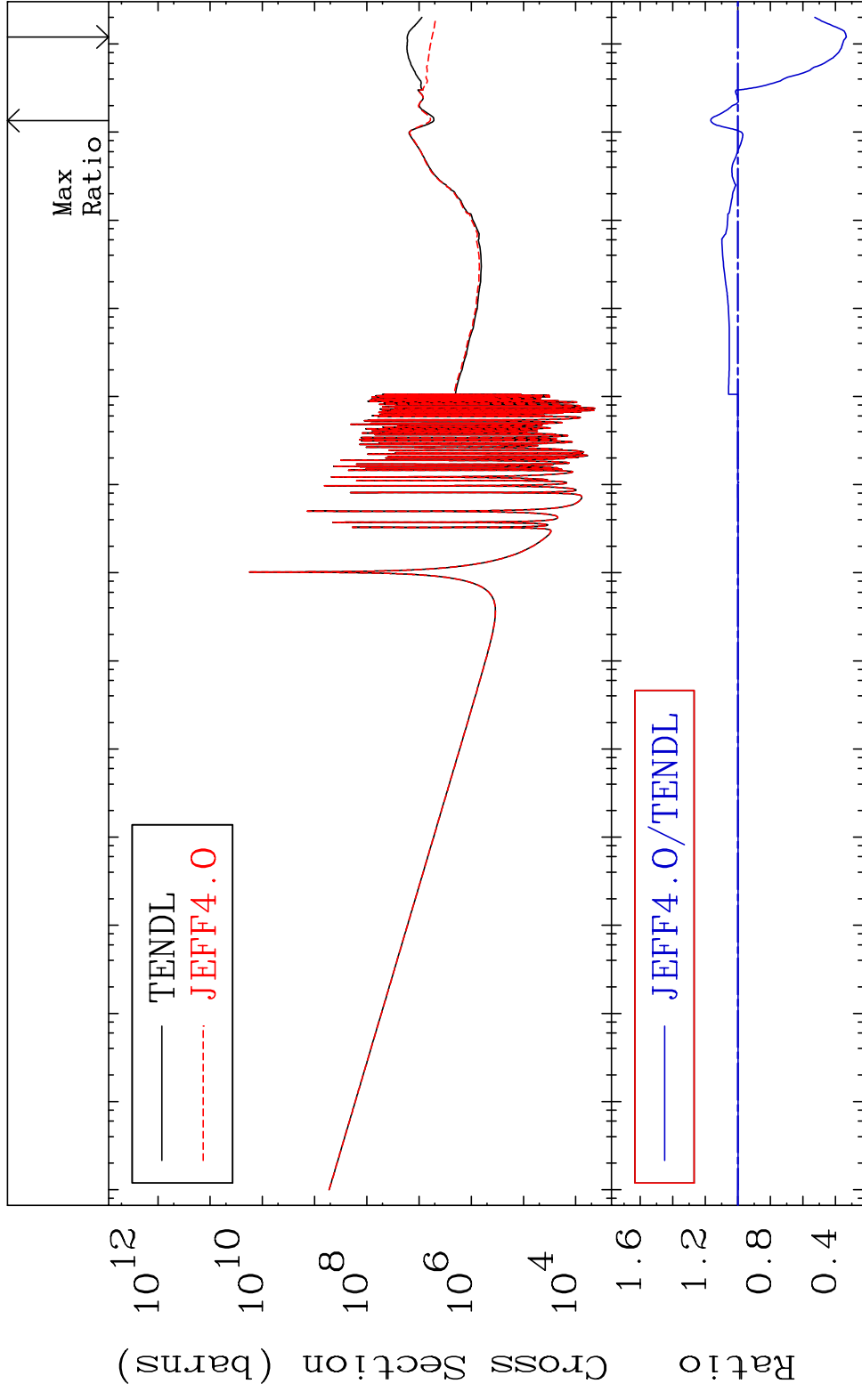


72

Incident Energy (eV)

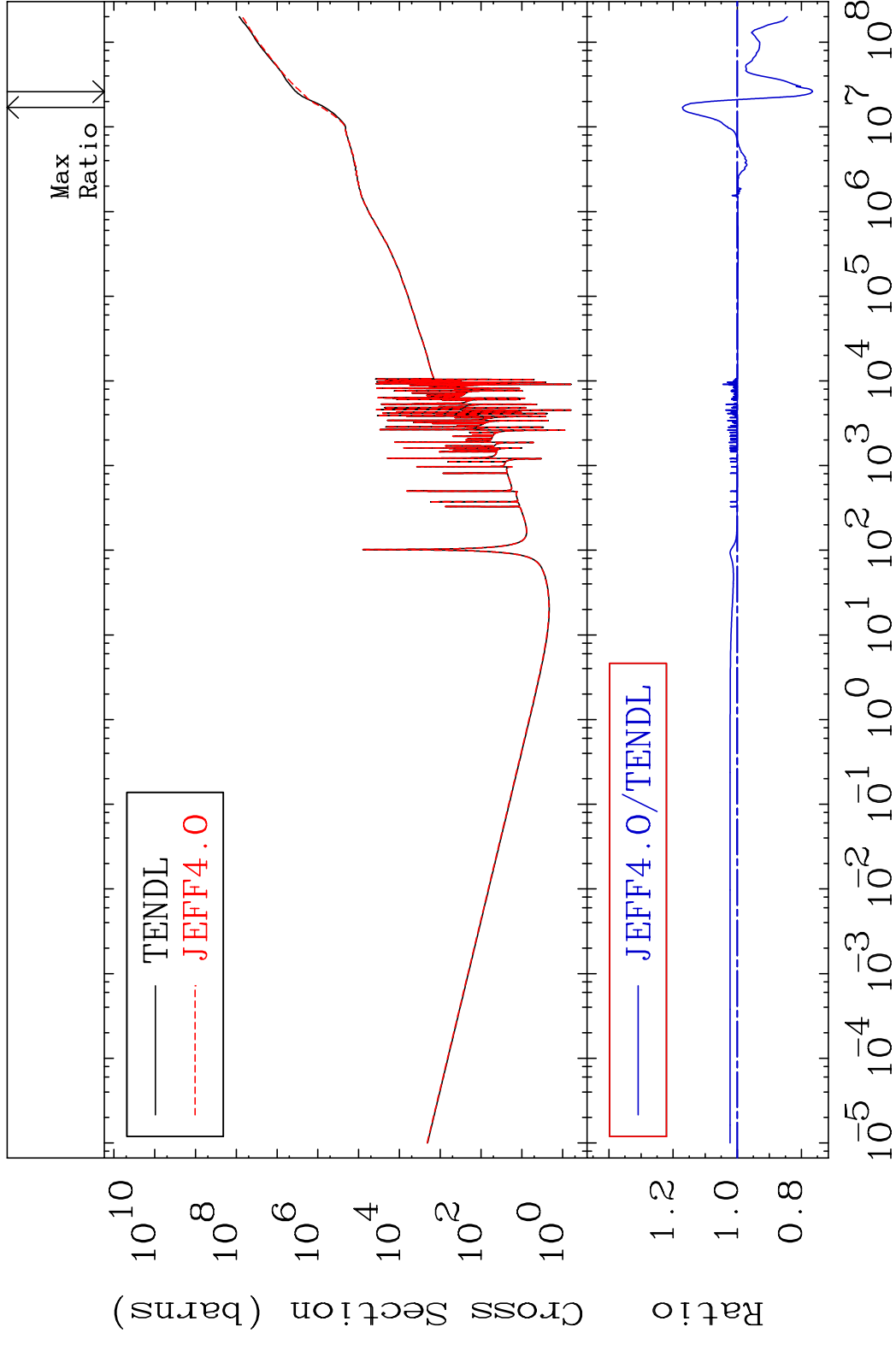
56-Ba-134

MAT 5637 Total photon (eV-barns) 56-Ba-134
 Cross Section -66.63 To 16.70 %



73 Incident Energy (eV) 56-Ba-134

MAT 5637 Total kinematic kerma (high limit) 56-Ba-134
 Cross Section -23.47 To 17.12 %



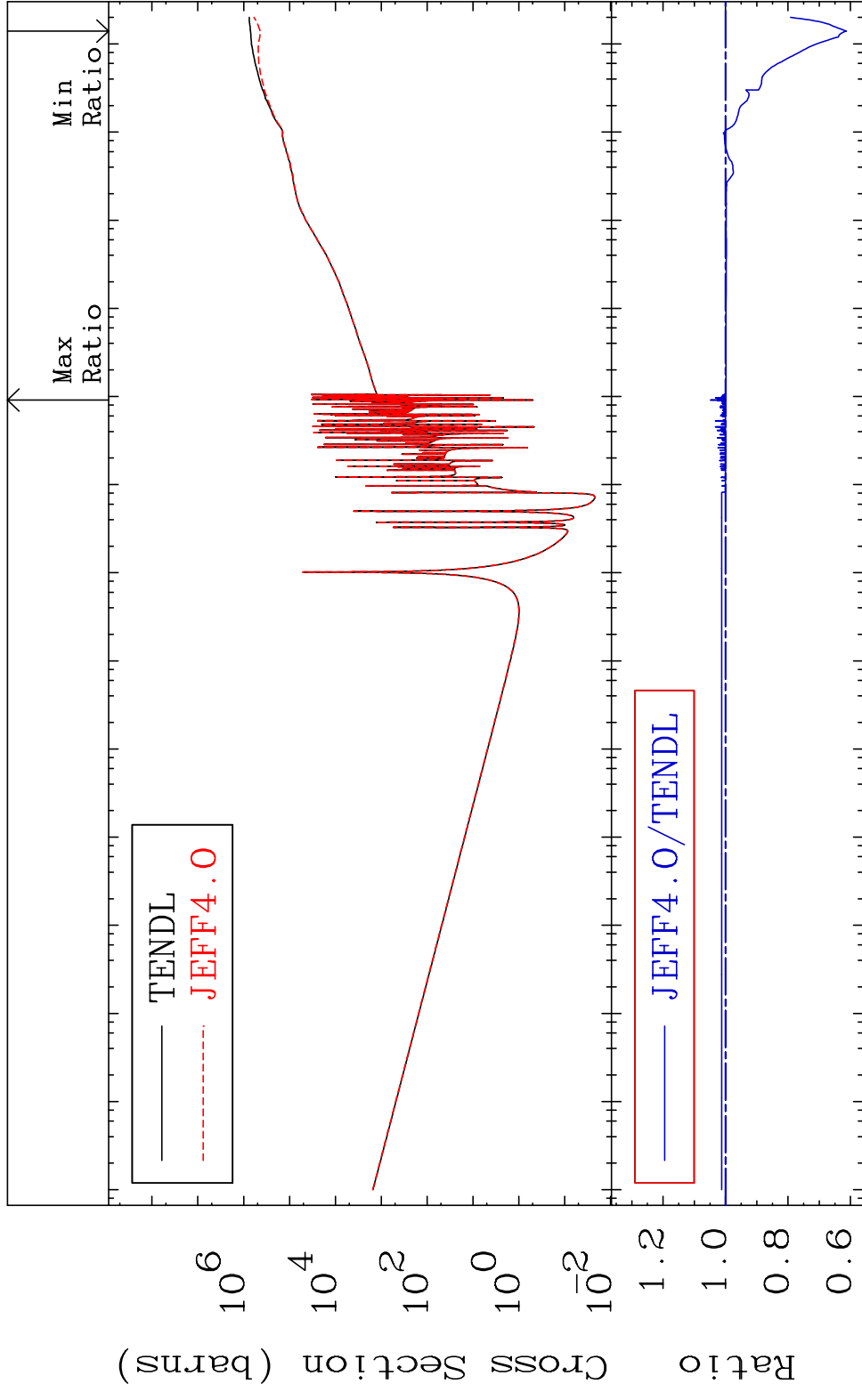
MAT 5637

Dpa total (eV-barns)

56-Ba-134

Cross Section

-38.66 To 4.749 %



75

Incident Energy (eV)

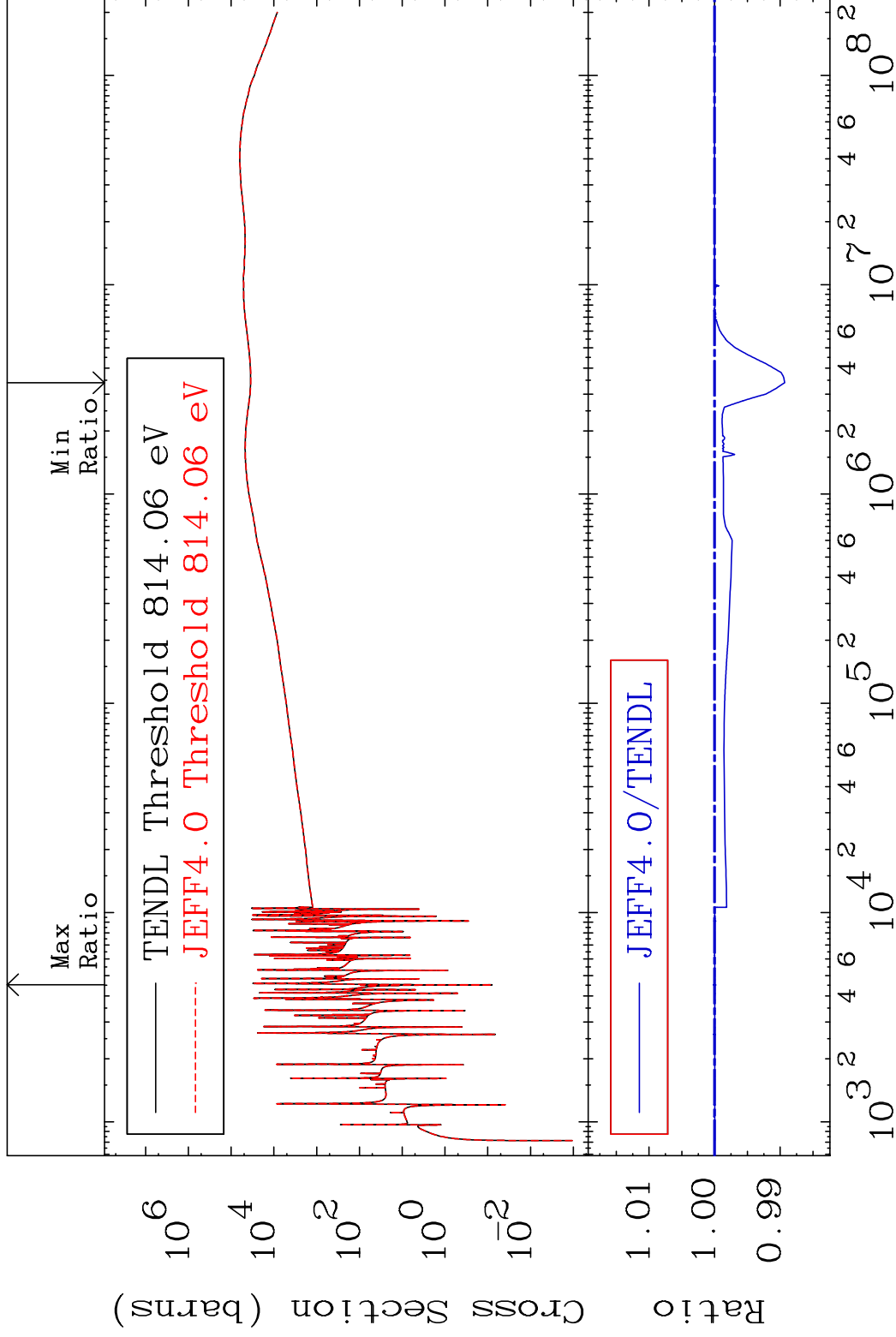
56-Ba-134

MAT 5637

Dpa elastic (mt2)

56-Ba-134

Cross Section -1.068 To 0.023 %

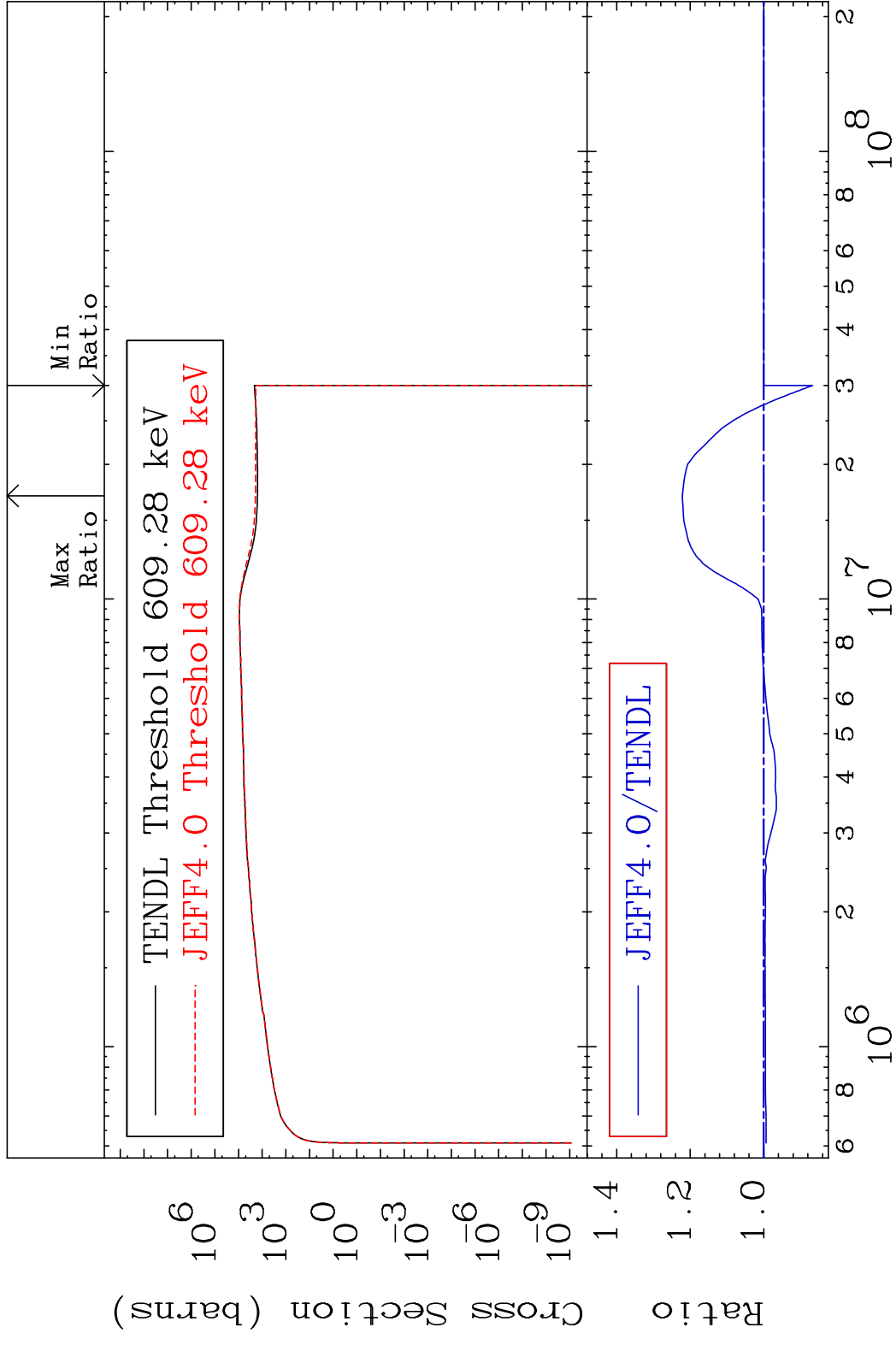


76

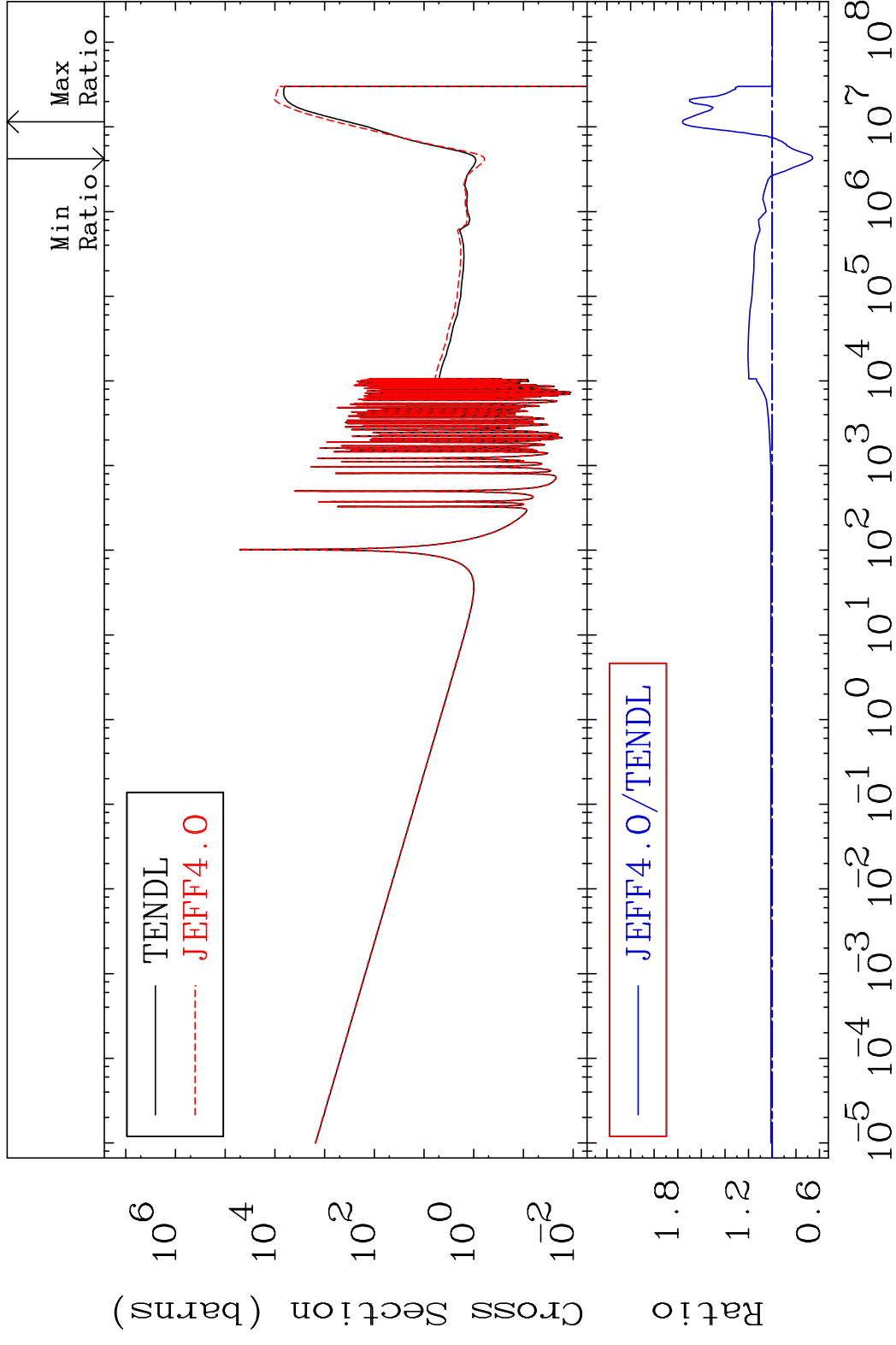
Incident Energy (eV)

56-Ba-134

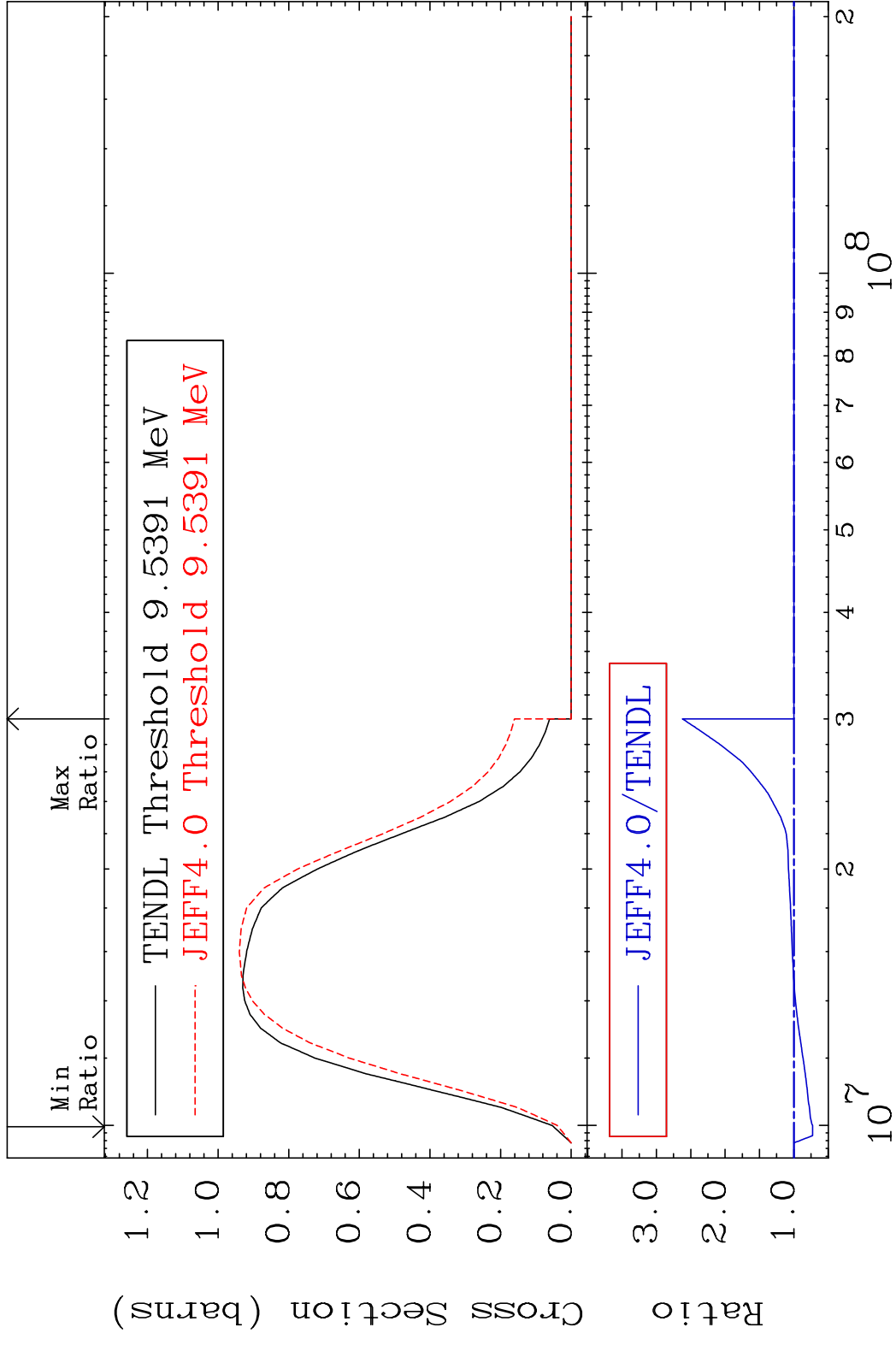
MAT 5637 Dpa inelastic (mt51-91) 56-Ba-134
 Cross Section -13.29 To 22.13 %



MAT 5637 Dpa disappearance (mt102 -120) 56-Ba-134
 Cross Section -34.14 To 76.15 %

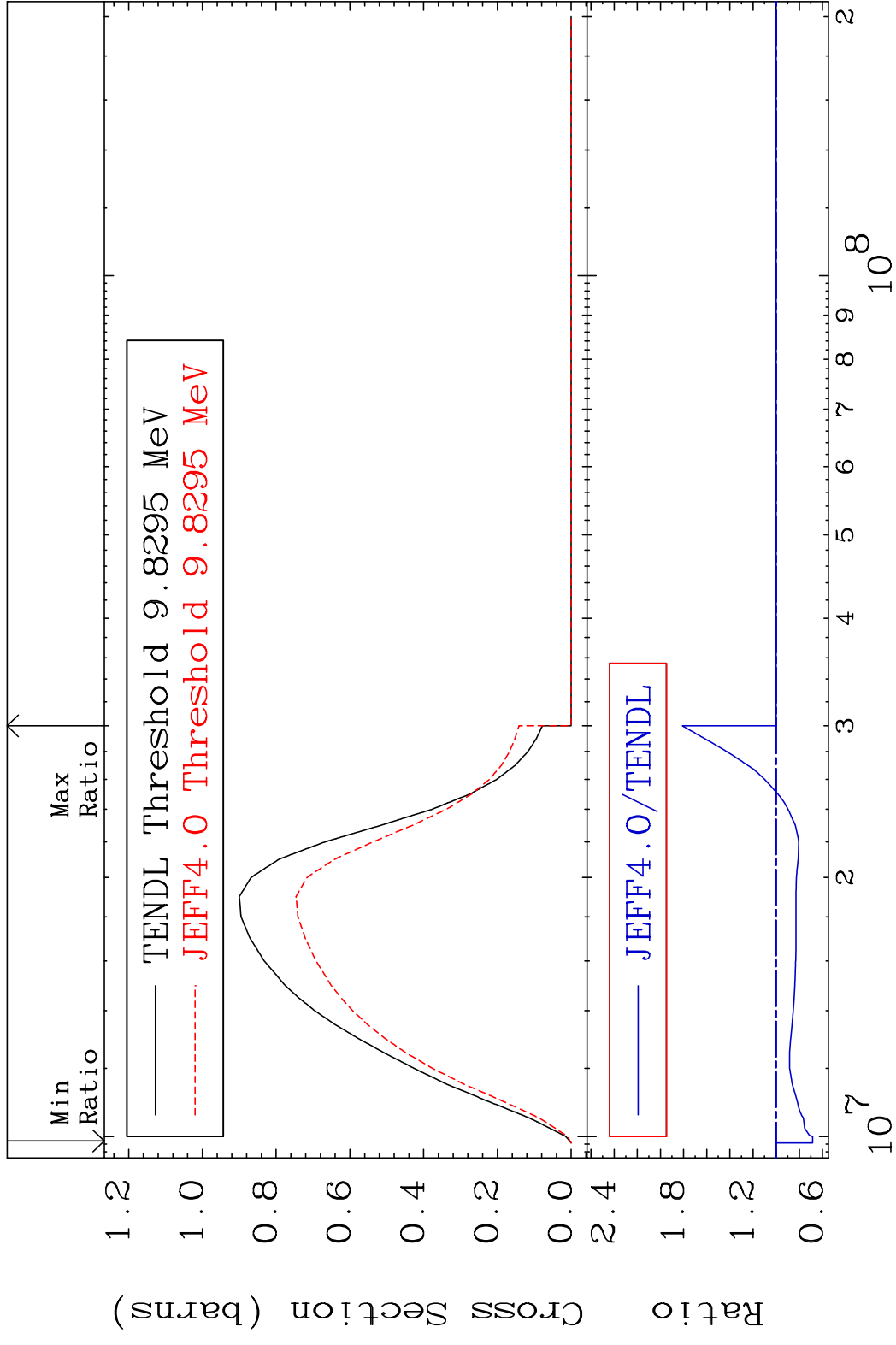


MAT 5637 (n,2n):56-Ba-133g 56-Ba-134
 Radionuclide Production Cross Section 37.281 dth 162.2 %



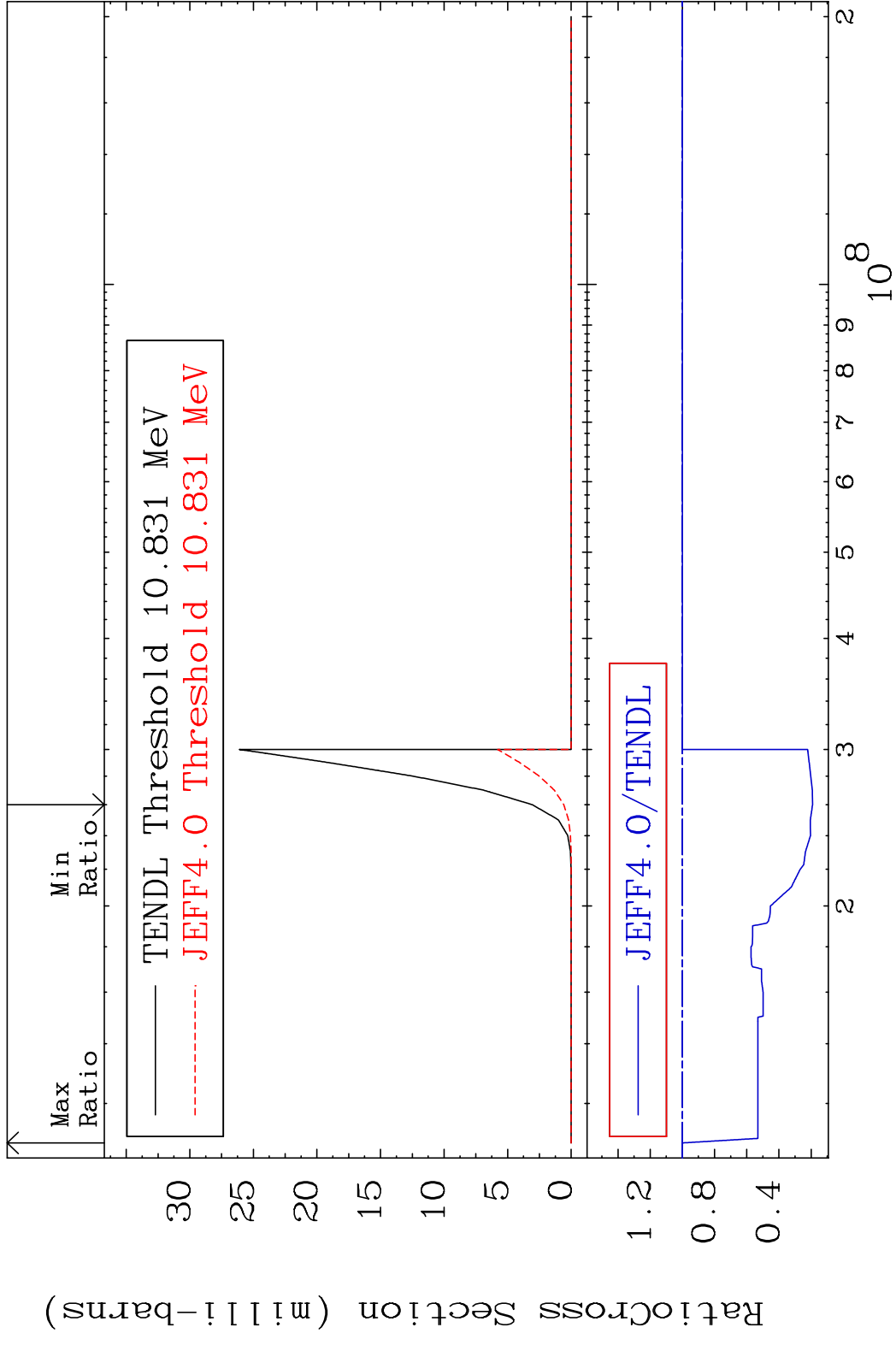
79 Incident Energy (eV) 56-Ba-134

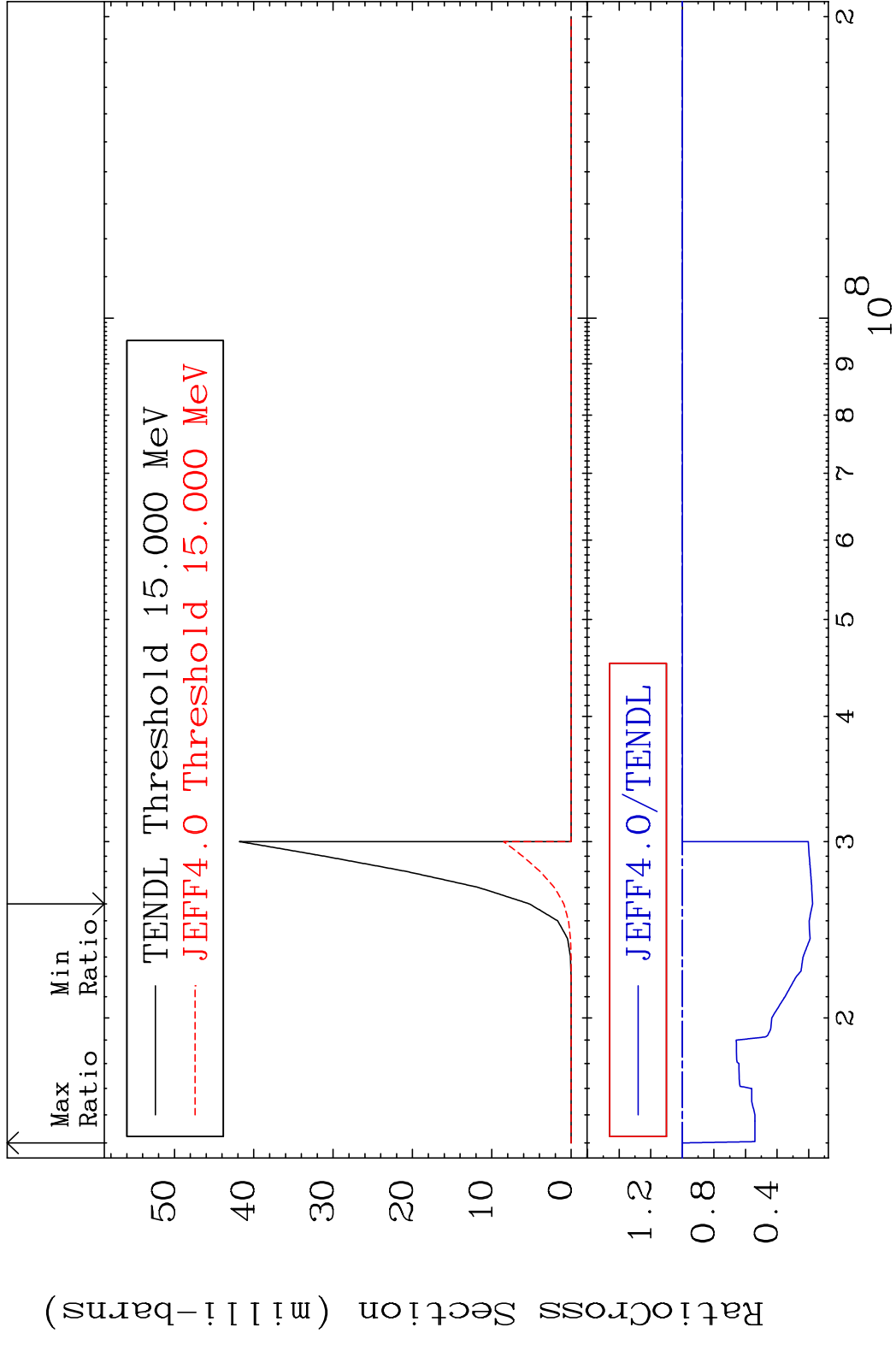
MAT 5637 (n, 2n): 56-Ba-133m2 56-Ba-134
 Radionuclide Production Cross Section 81.05 %



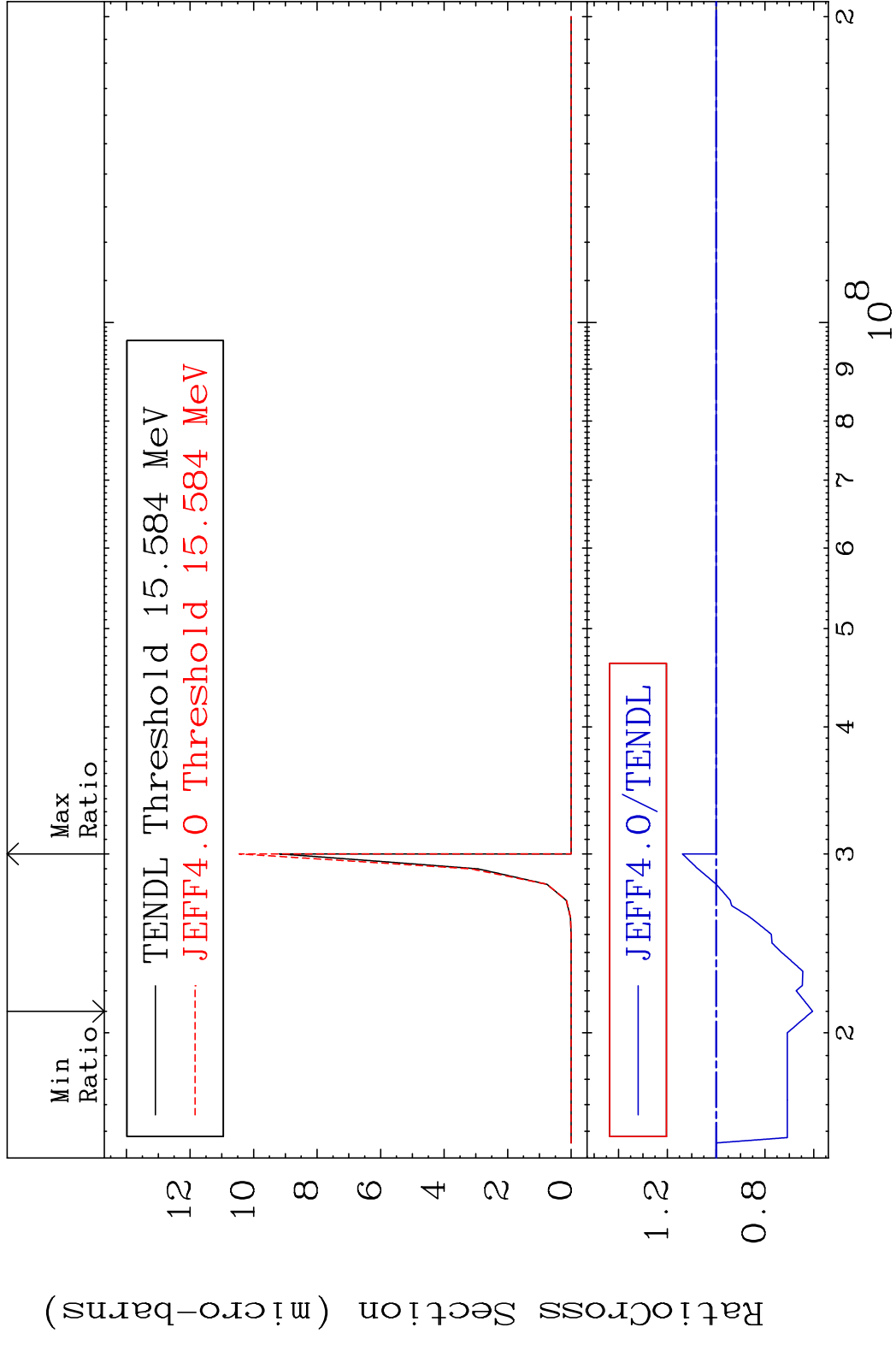
80 Incident Energy (eV) 56-Ba-134

MAT 5637 (n,2n) α :54-Xe-129g 56-Ba-134
 Radionuclide Production Cross Section 88e-09 dth 0.000 %

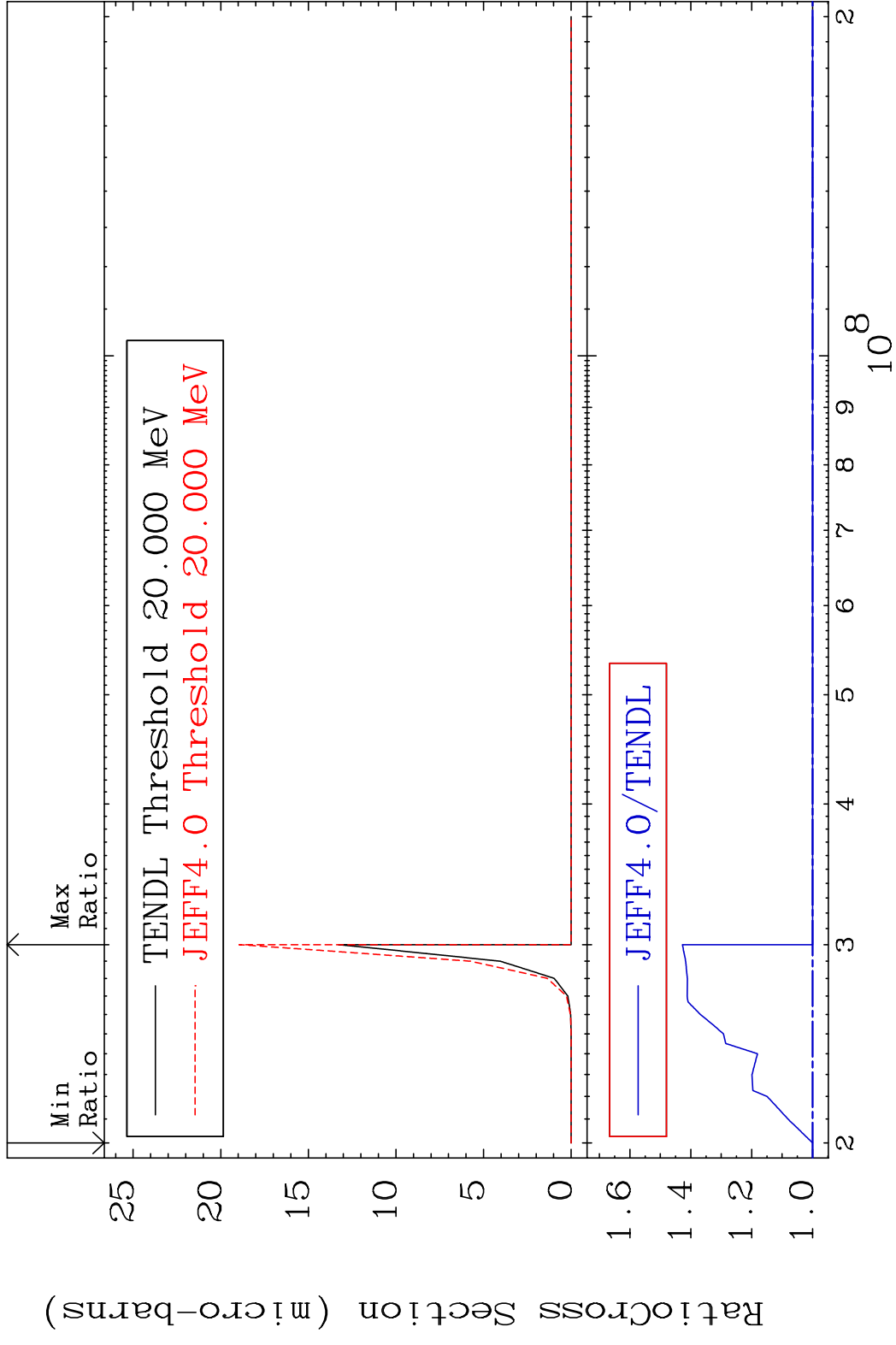




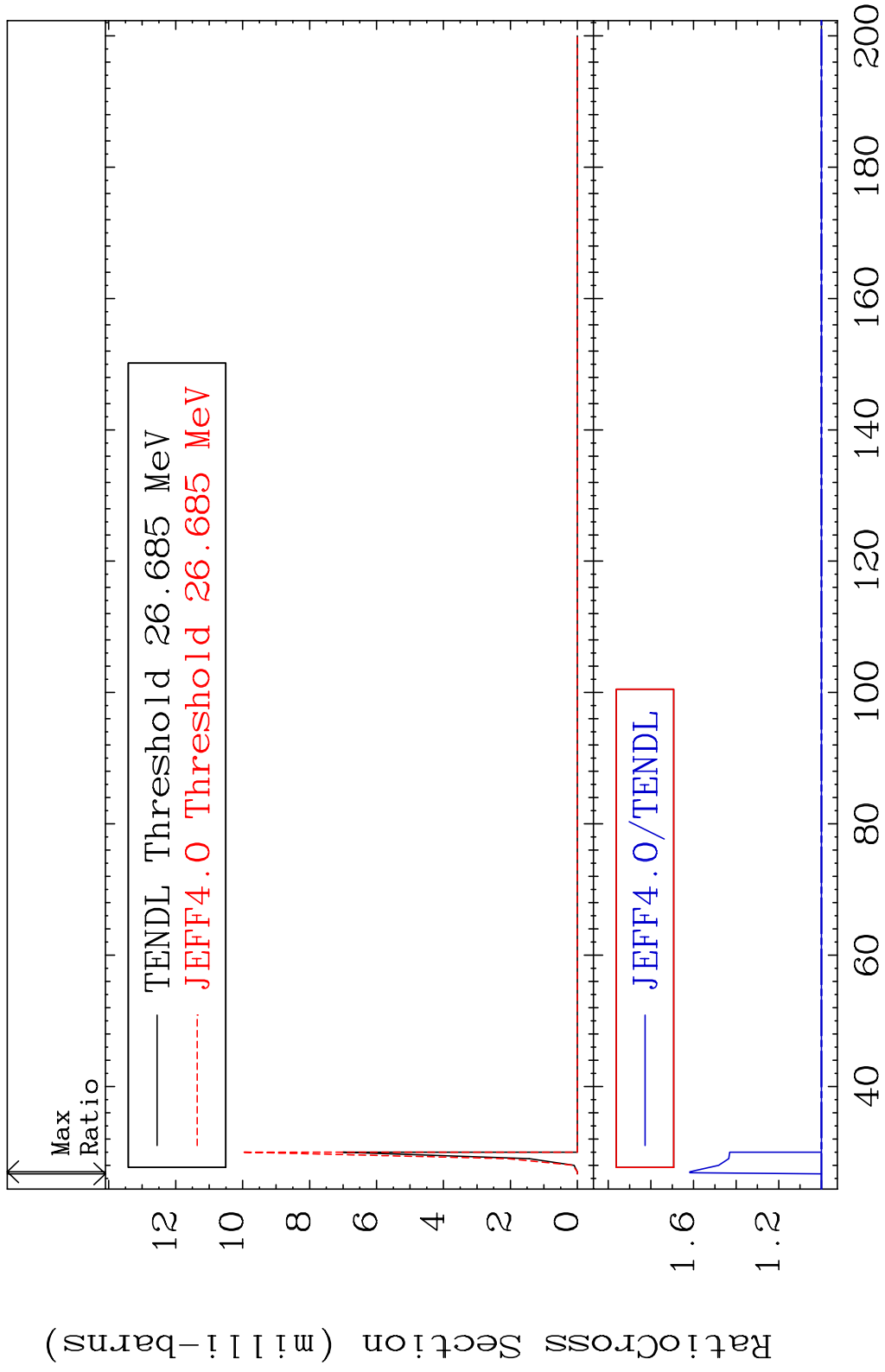
MAT 5637 (n, n') He-3:54-Xe-131g 56-Ba-134
 Radionuclide Production Cross Section 39.53 dpo 13.84 %



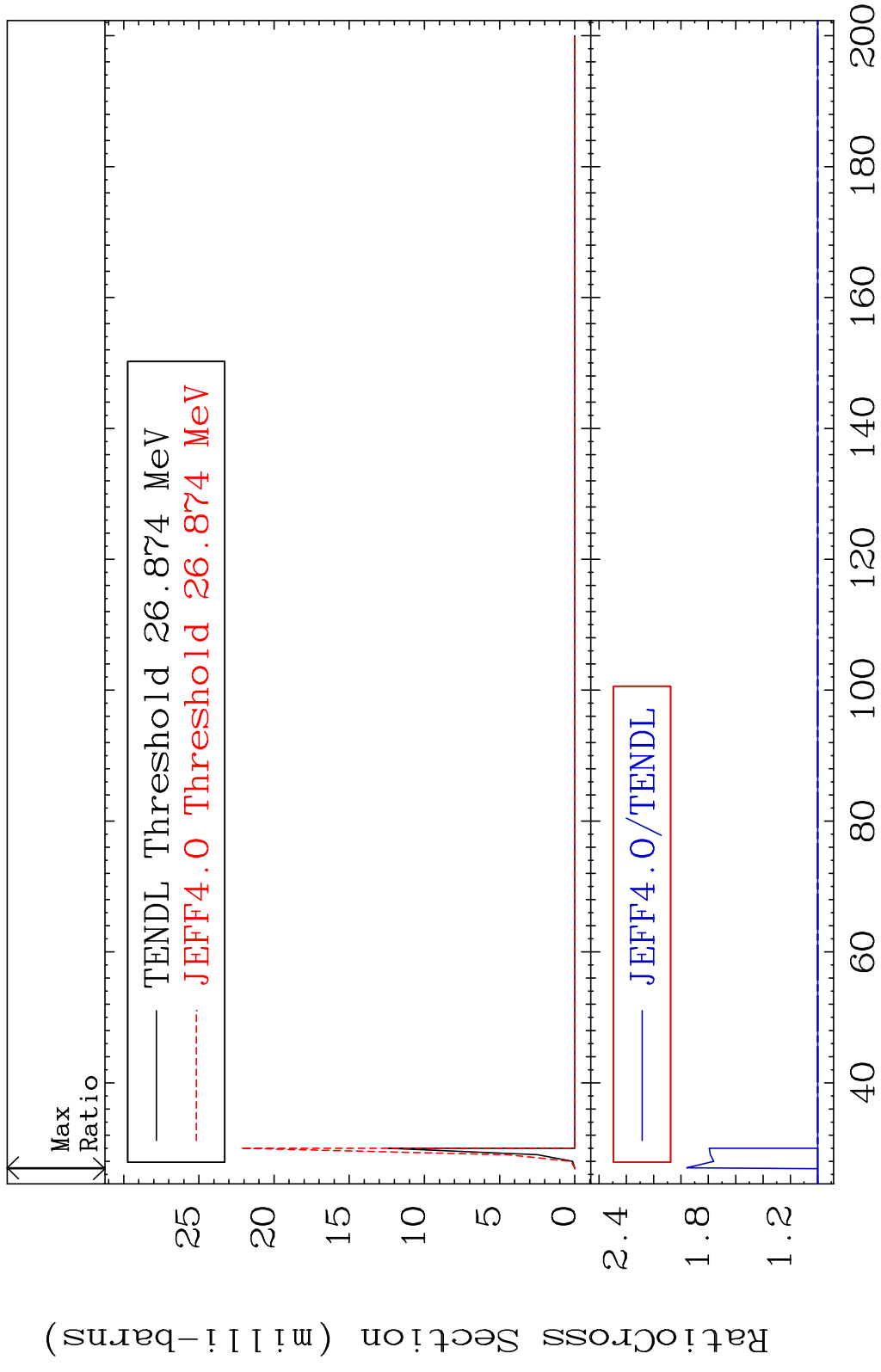
MAT 5637 (n, n') He-3:54-Xe-131m2 56-Ba-134
 Radionuclide Production Cross Section 42.78 %

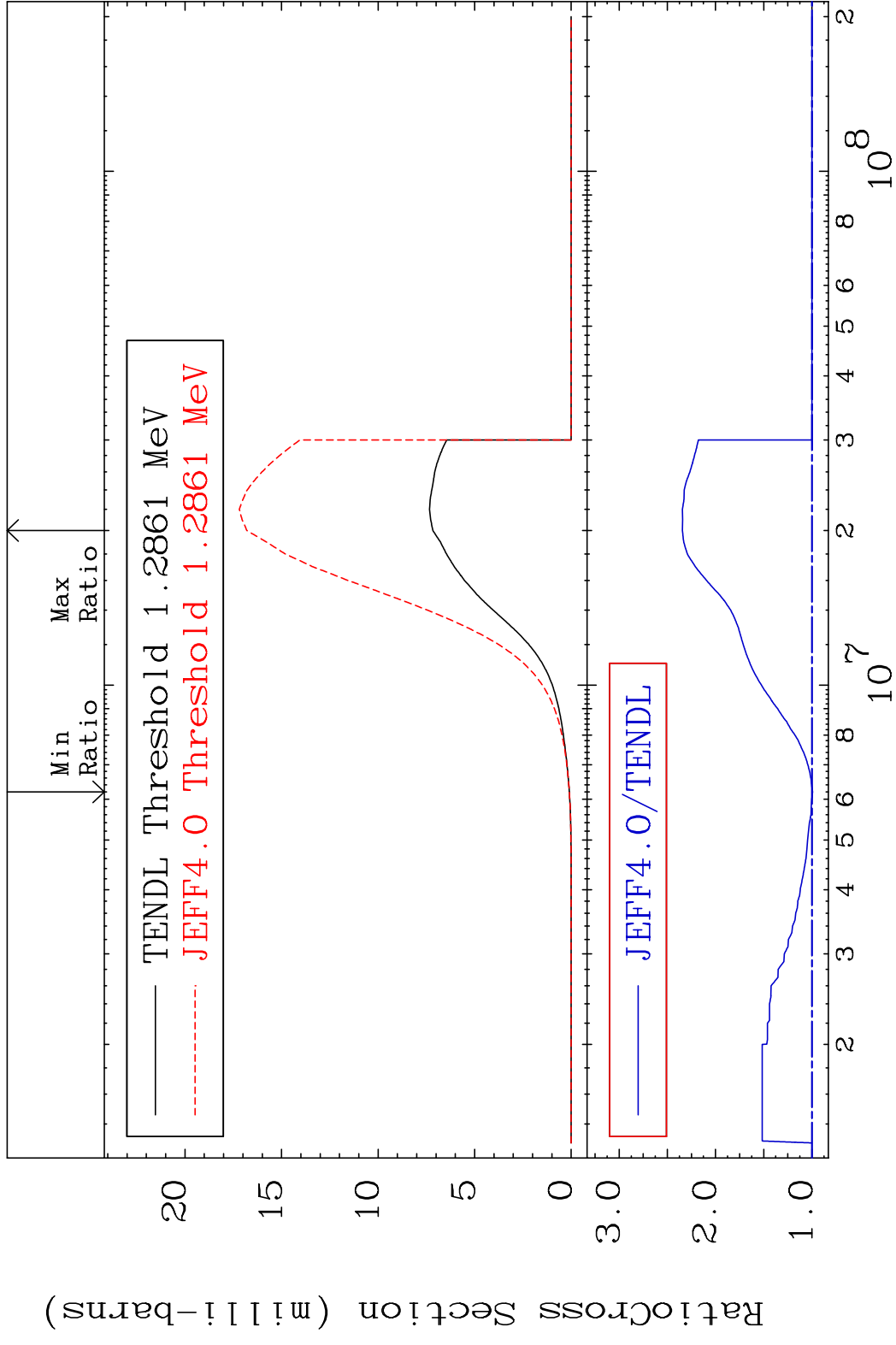


MAT 5637 (n,4n):56-Ba-131g 56-Ba-134
 Radionuclide Production Cross Section 61.77 %

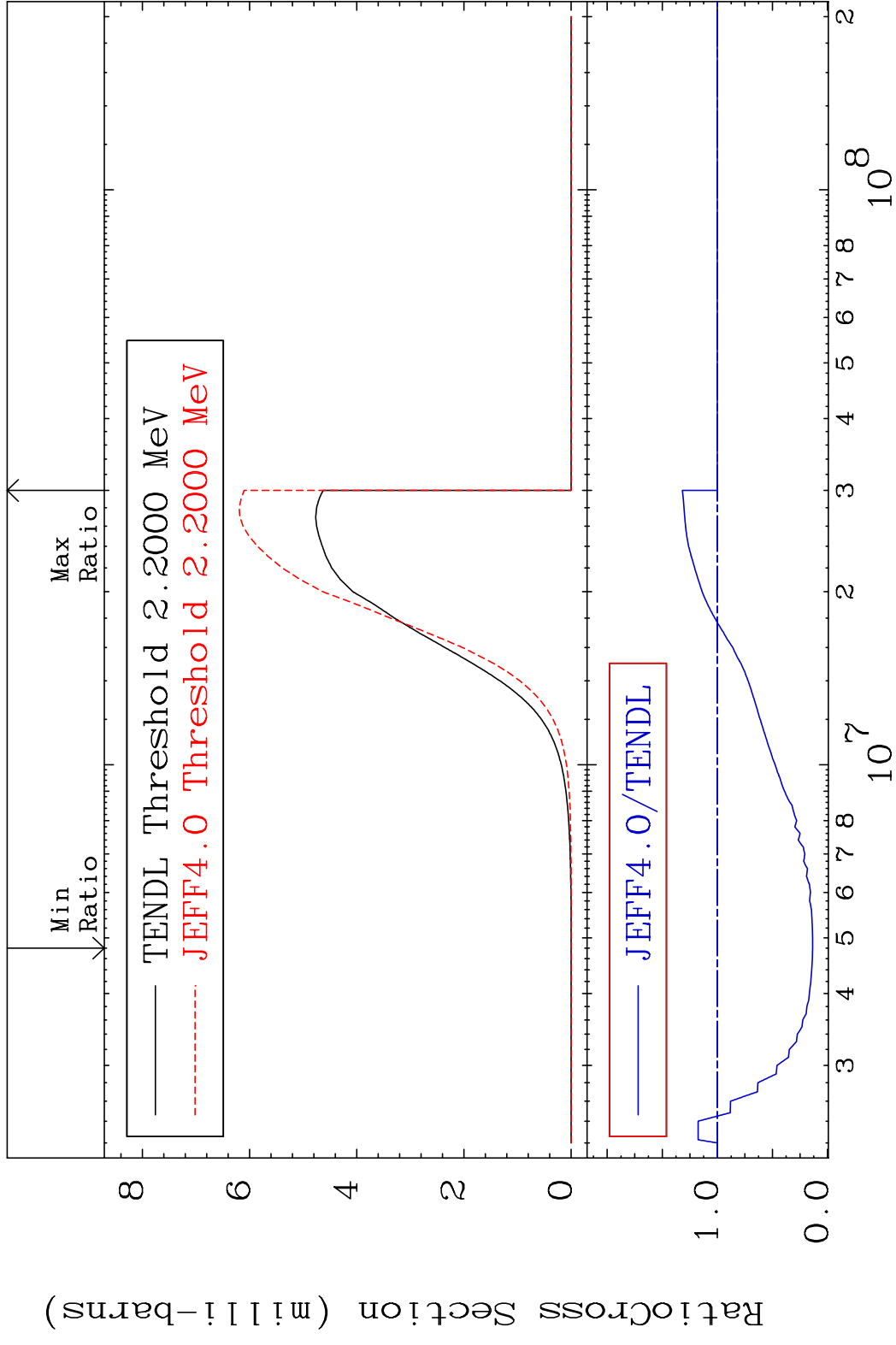


MAT 5637 (n, 4n):56-Ba-131m2 56-Ba-134
 Radionuclide Production Cross Section 95.89 %

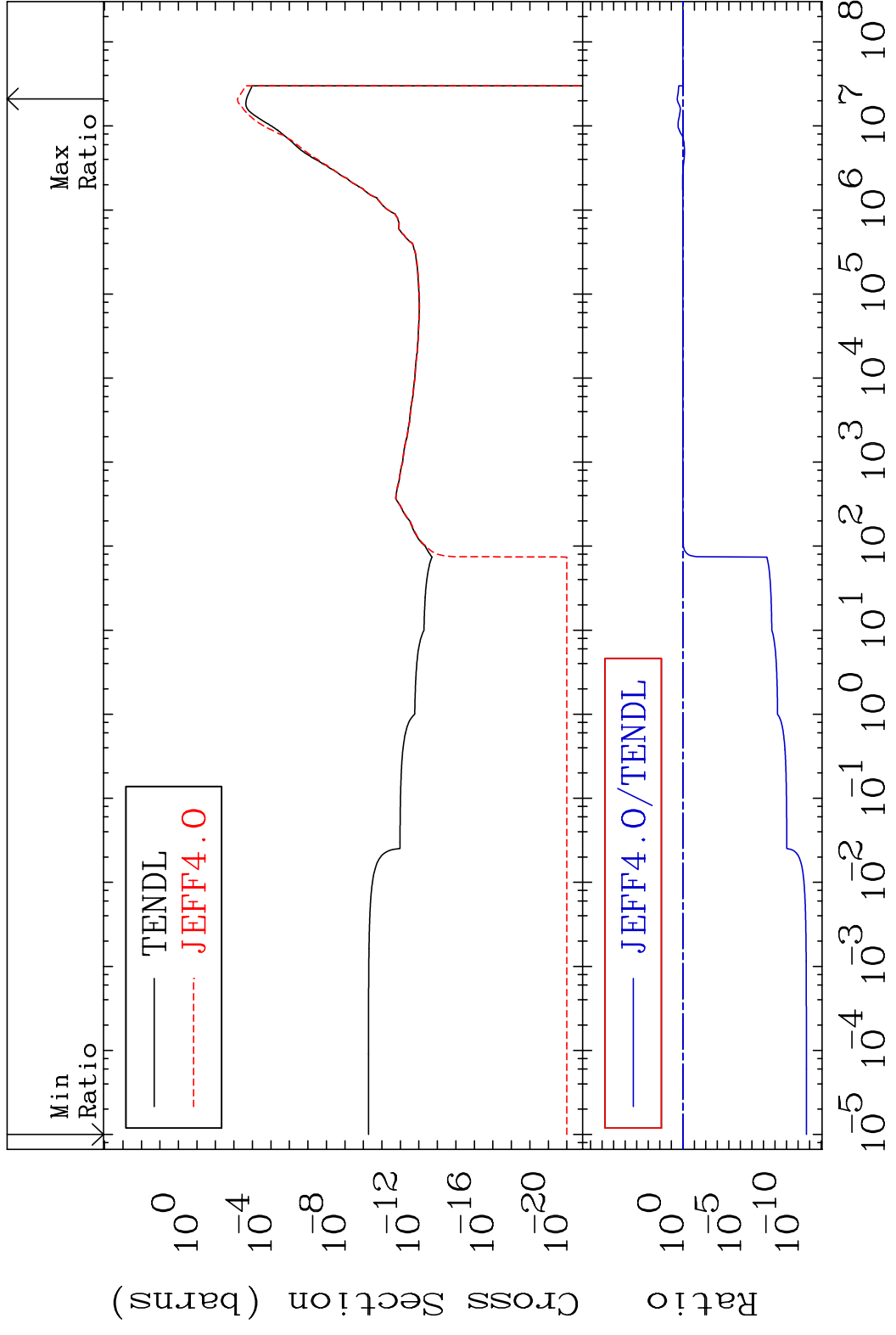




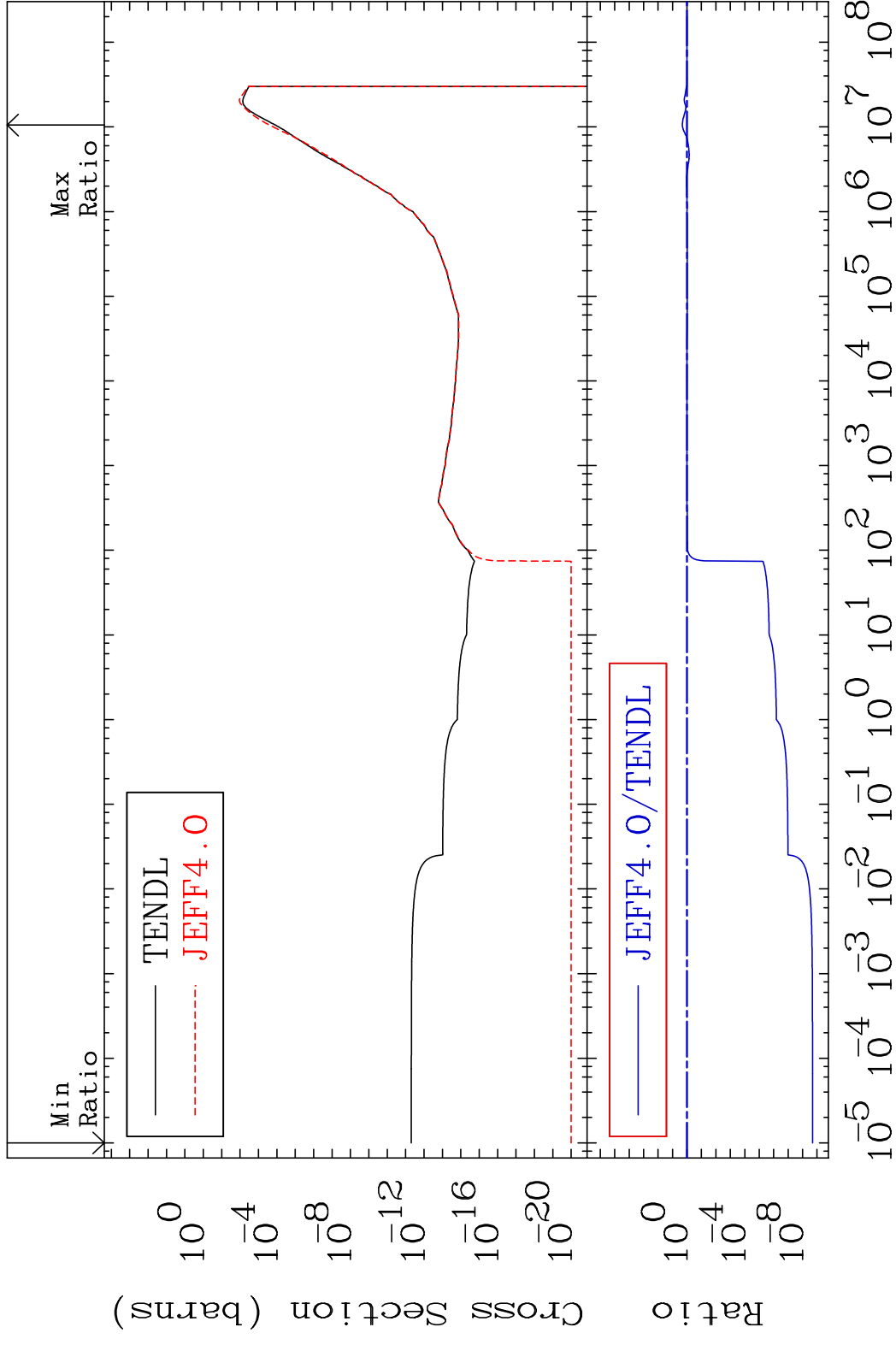
MAT 5637 (n, p):55-Cs-134m3 56-Ba-134
 Radionuclide Production Cross Section 31.77 %



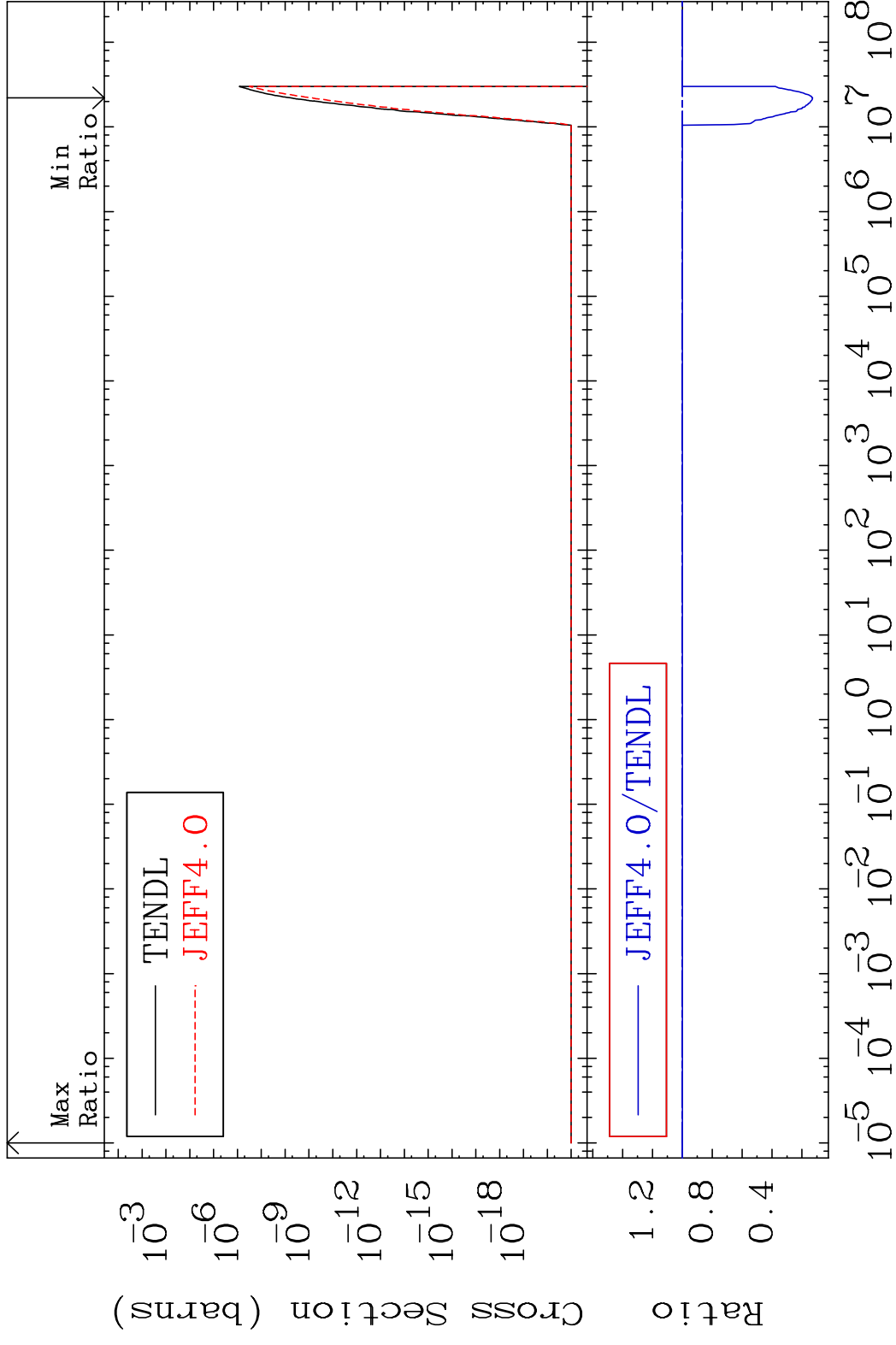
MAT 5637 (n,α):54-Xe-131g 56-Ba-134
 Radionuclide Production Cross Section Ratio 206.4 %



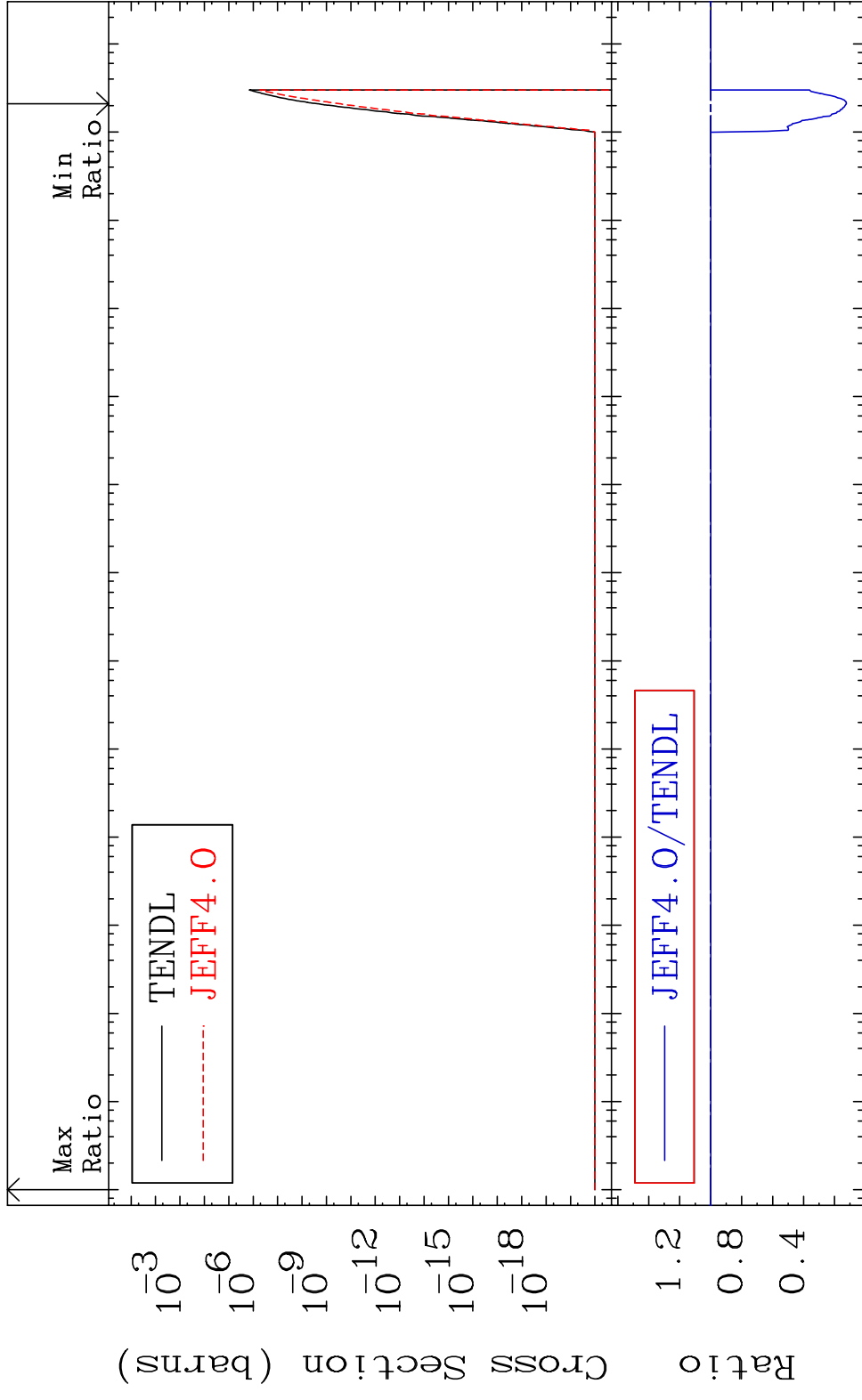
MAT 5637 (n, α):54-Xe-131m2 56-Ba-134
 Radionuclide Production Cross Section 100.0 dth 108.5 %



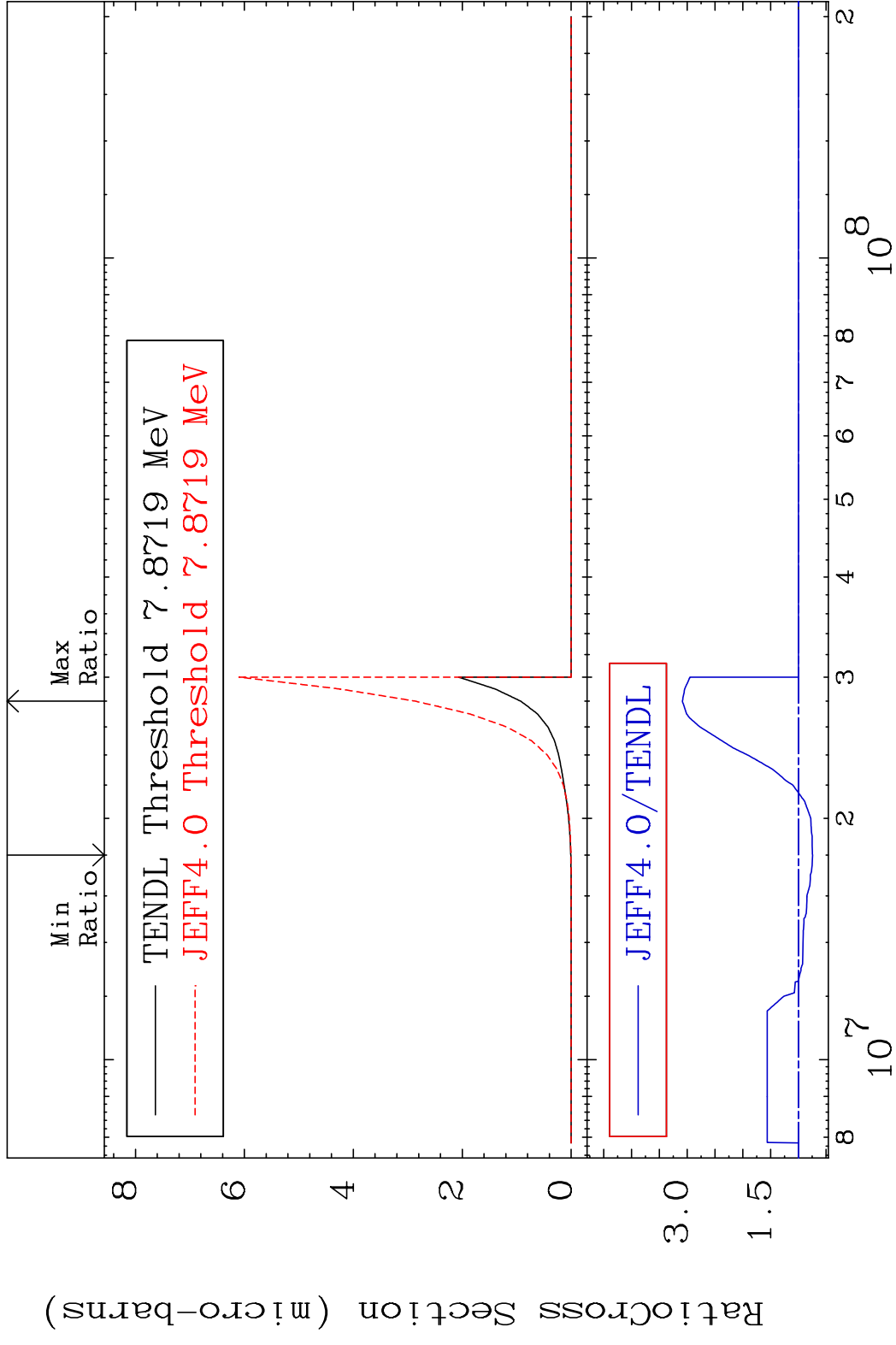
MAT 5637 (n,2α):52-Te-127g 56-Ba-134
 Radionuclide Production Cross Section 0.000 %



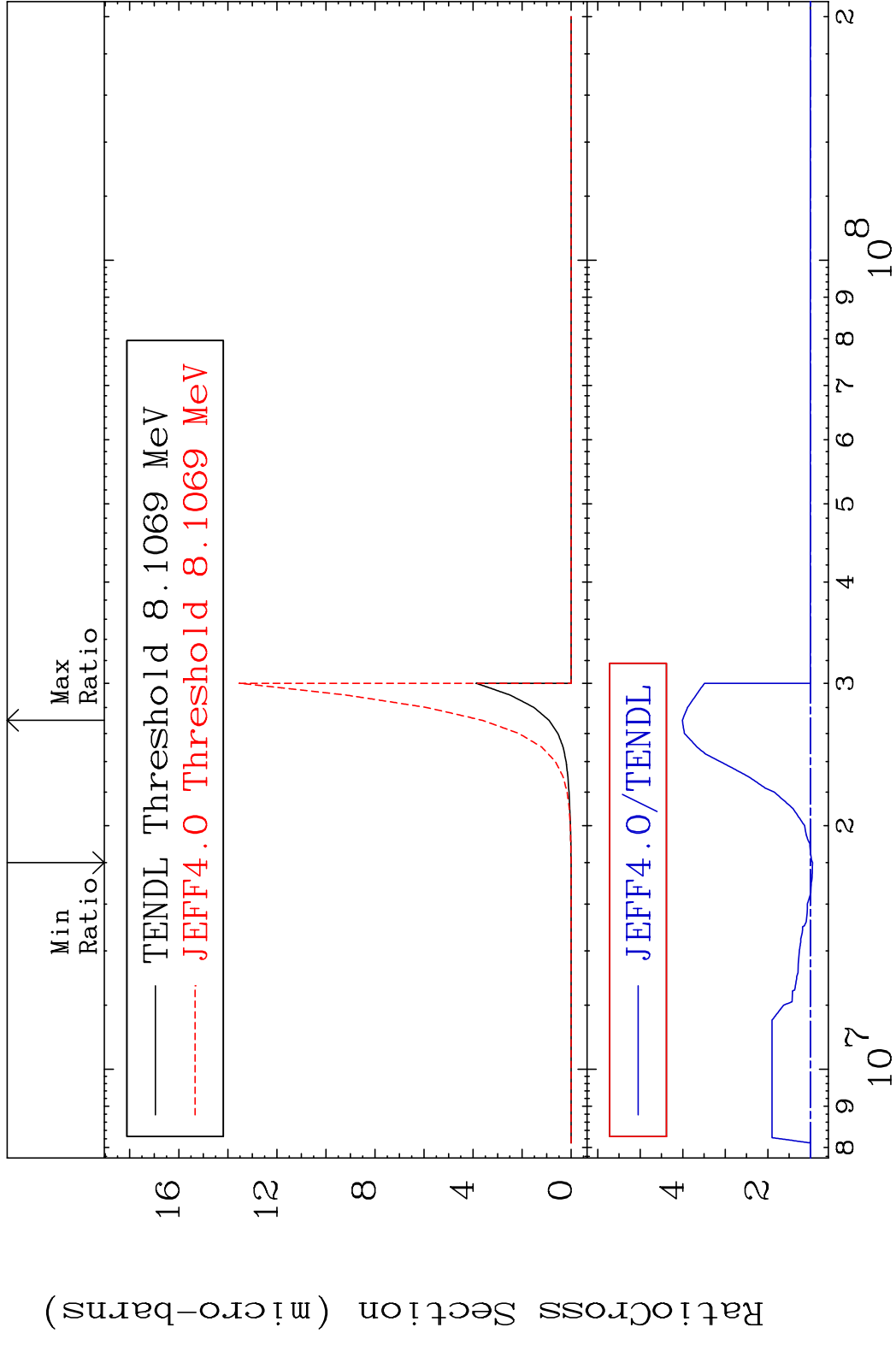
MAT 5637 (n, 2α):52-Te-127m2 56-Ba-134
 Radionuclide Production Cross Section 0.000 %

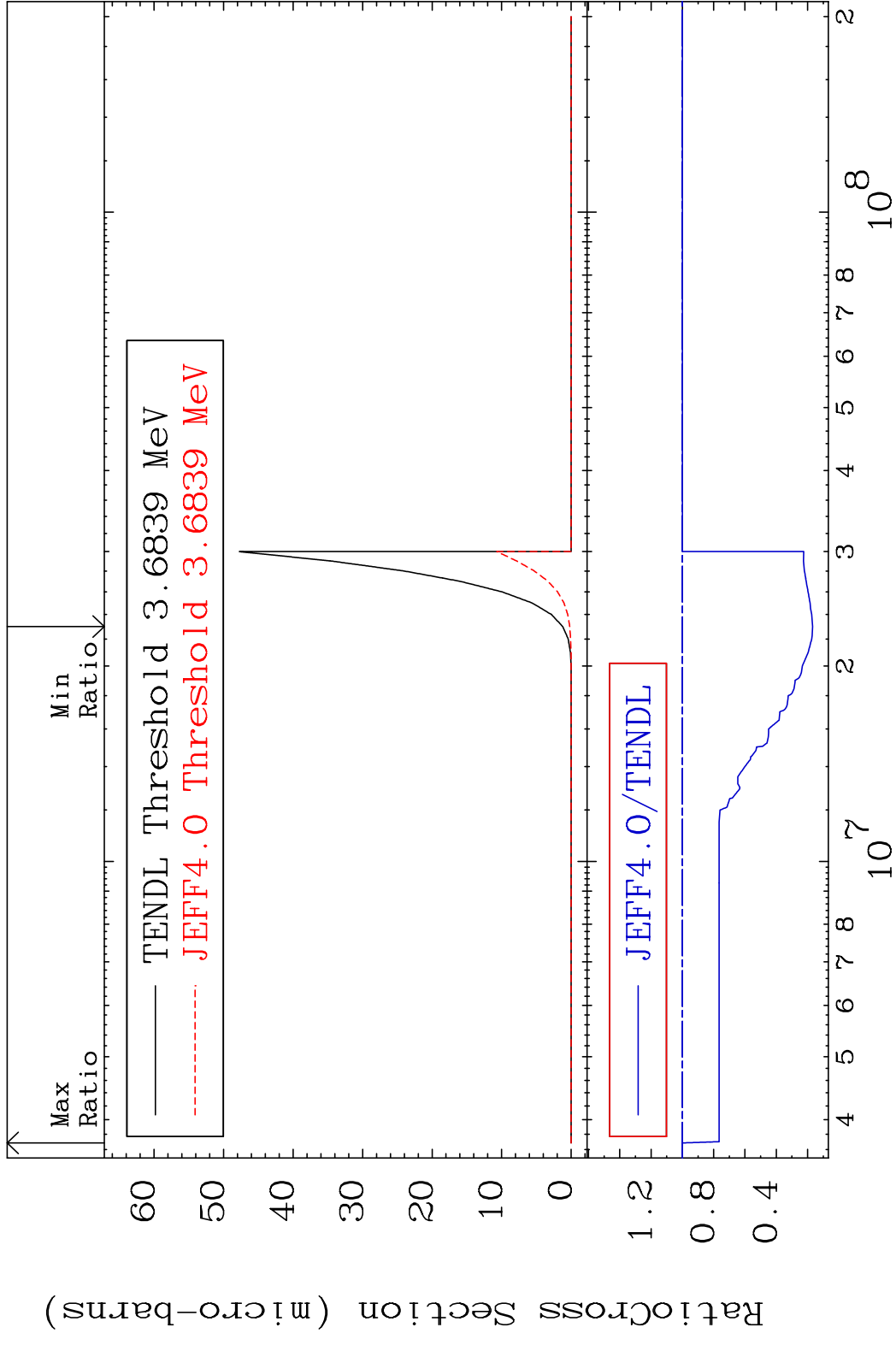


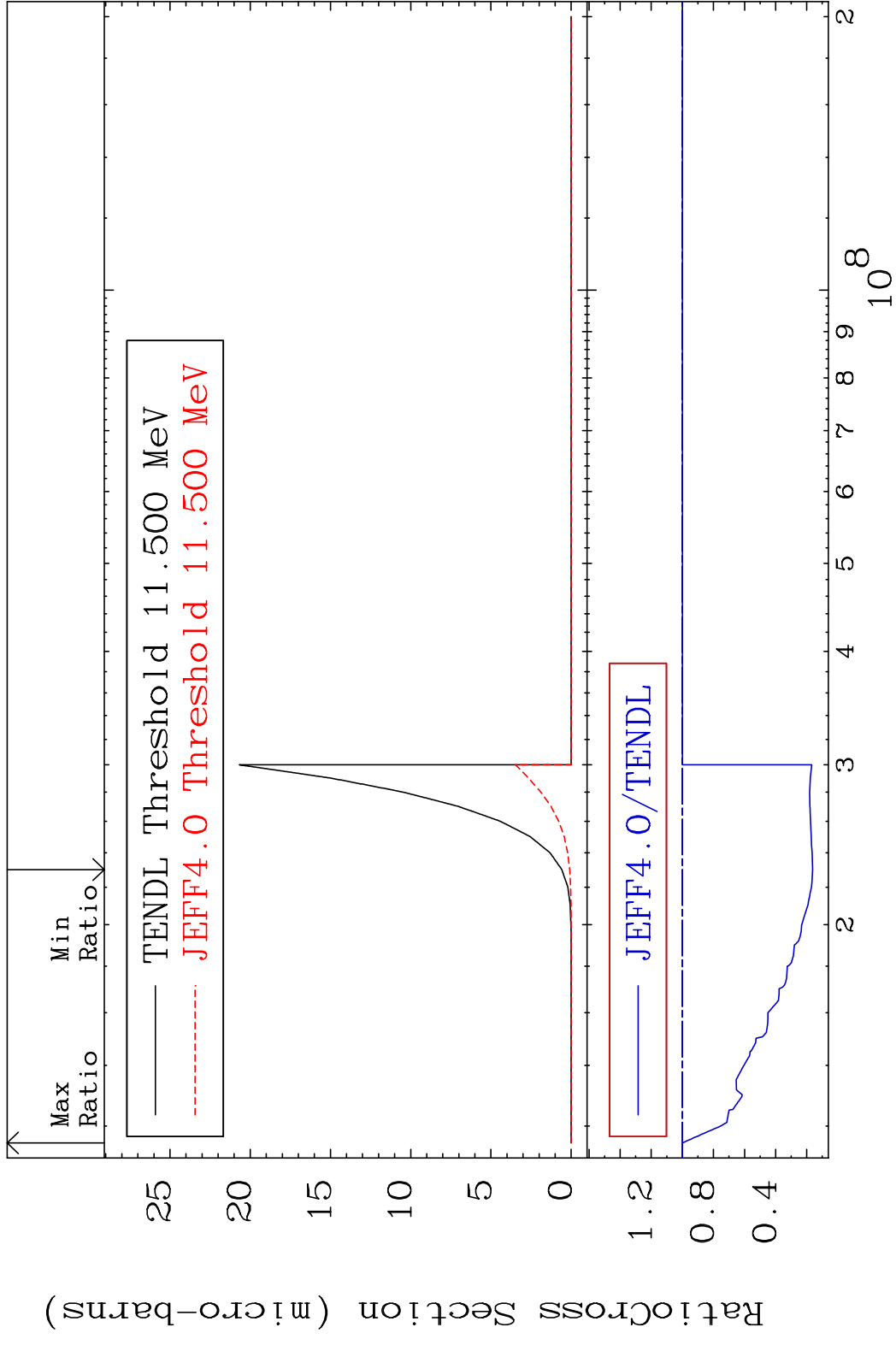
MAT 5637 (n,2p):54-Xe-133g 56-Ba-134
 Radionuclide Production Cross Section 208.6 %

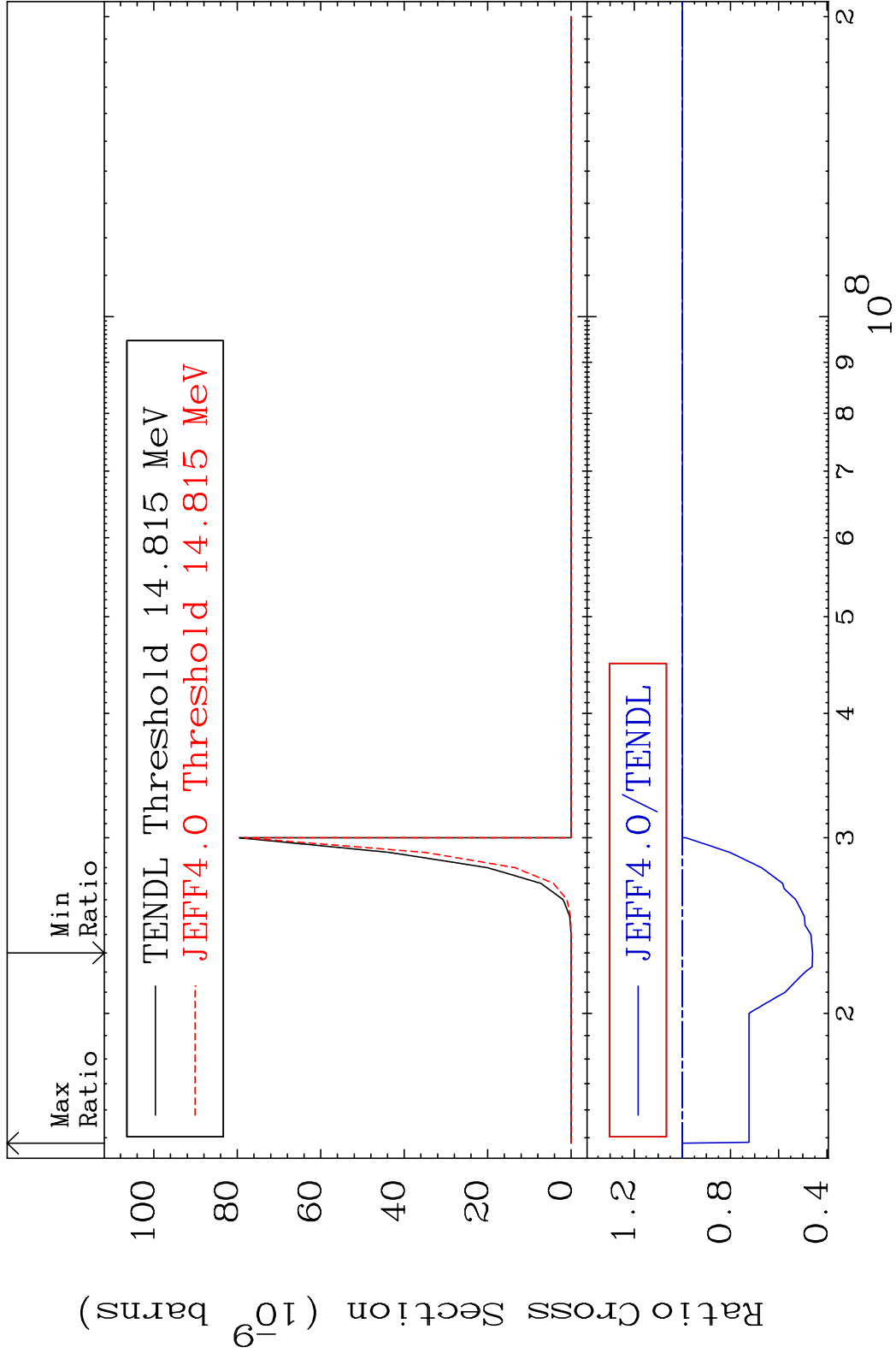


MAT 5637 (n, 2p):54-Xe-133m1 56-Ba-134
 Radionuclide Production Cross Section 301.0 %









MAT 5637 (n, p) t:54-Xe-131m2 56-Ba-134
 Radionuclide Production Cross Section 0.000 %

