

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

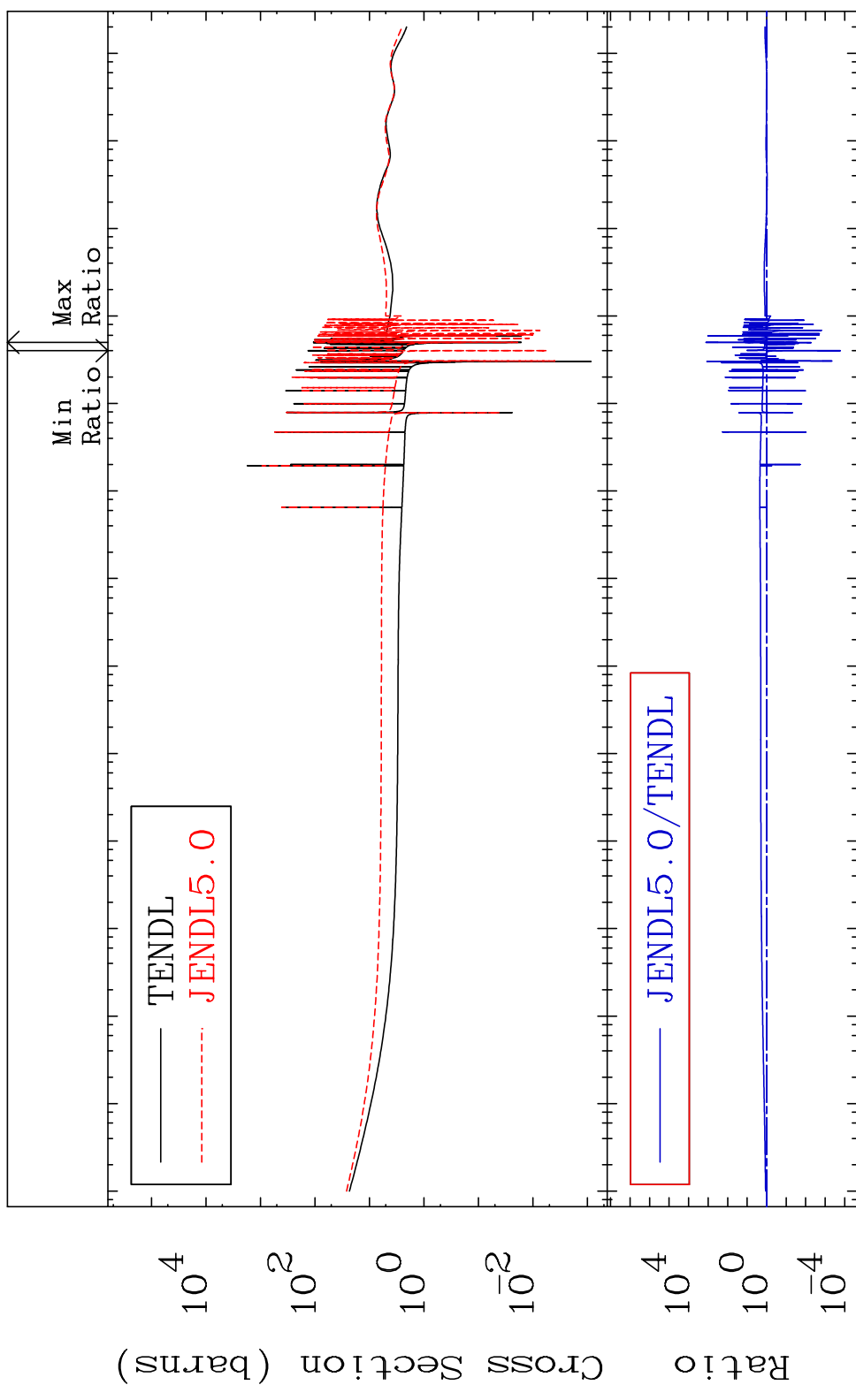
MAT 5649

Total

56-Ba-138

Cross Section

-99.98 To 9999. %



1

Incident Energy (eV)

56-Ba-138

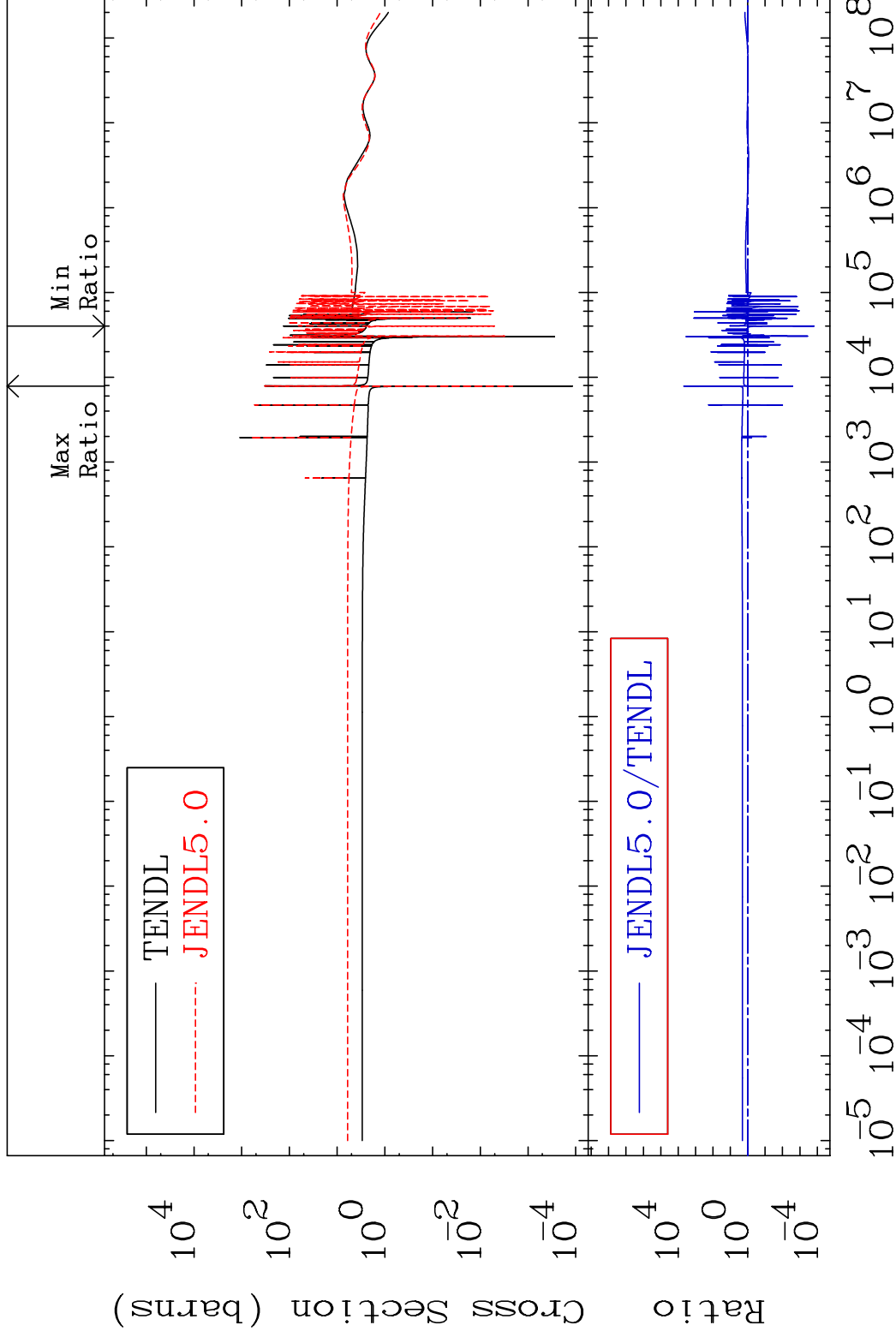
MAT 5649

Elastic

56-Ba-138

Cross Section

-99.98 To 9999. %



2

Incident Energy (eV)

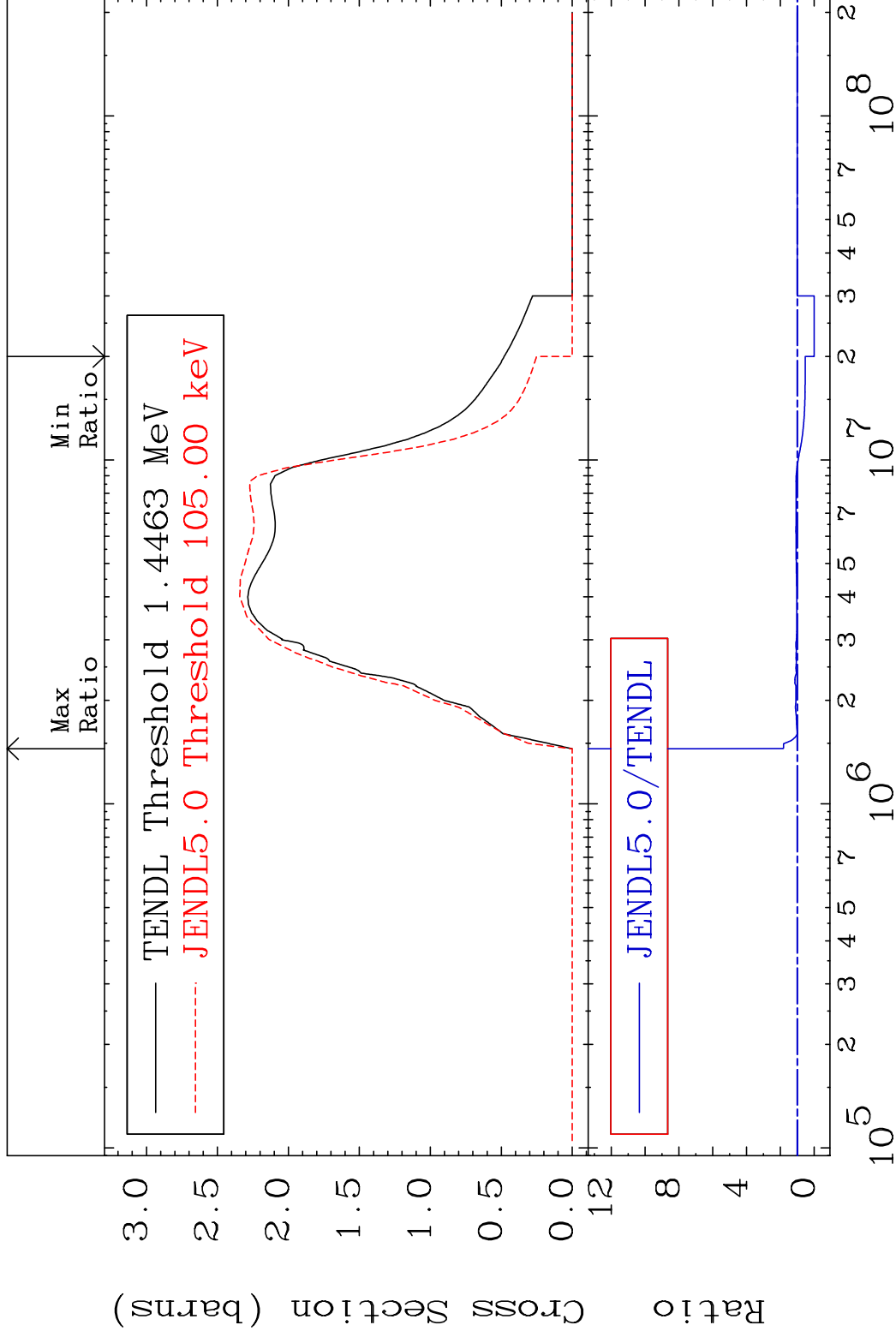
56-Ba-138

MAT 5649

Inelastic

56-Ba-138

Cross Section -100.0 To 671.8 %



Incident Energy (eV)

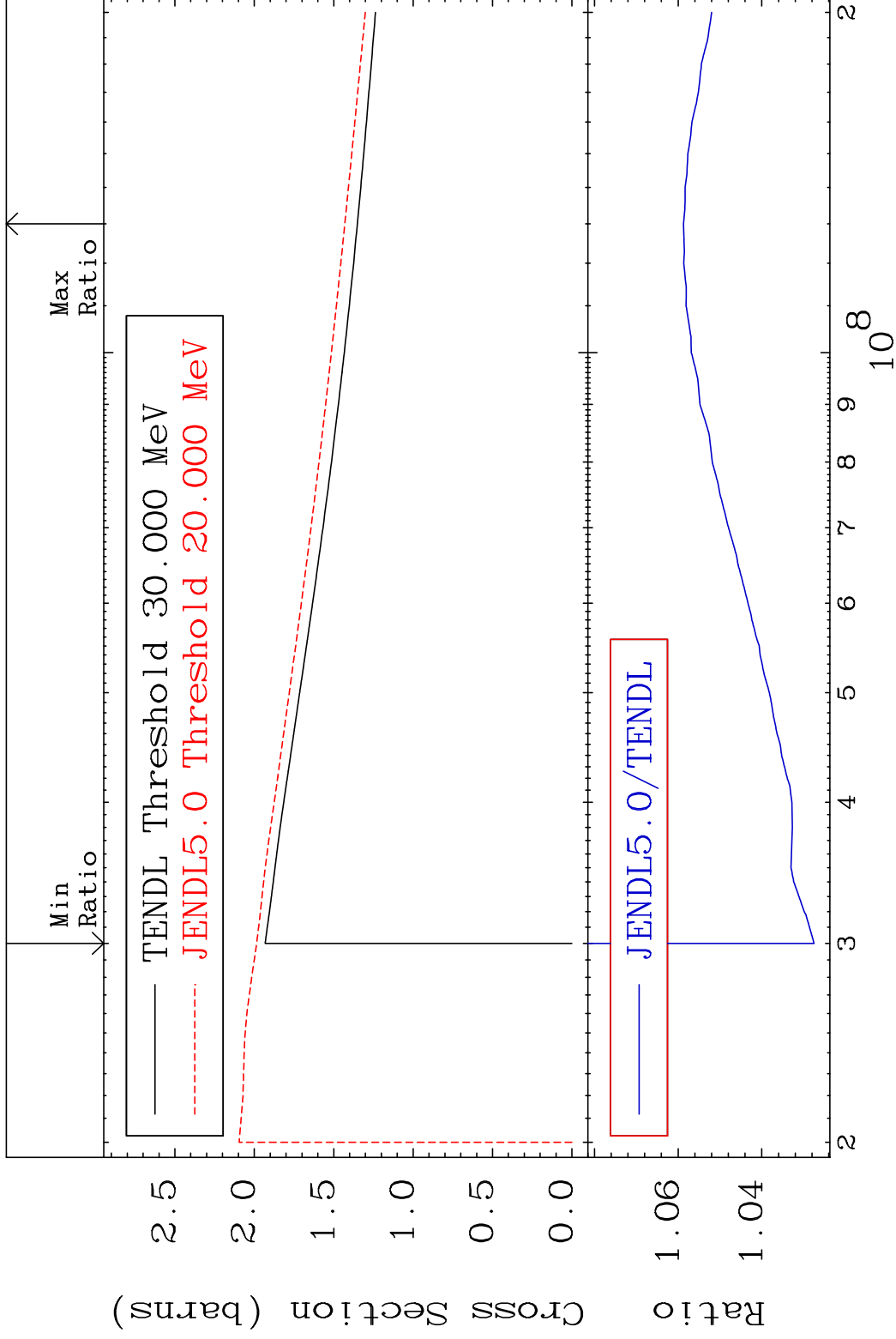
56-Ba-138

MAT 5649

(n, remainder)

56-Ba-138

Cross Section 2.752 To 5.873 %



4

Incident Energy (eV)

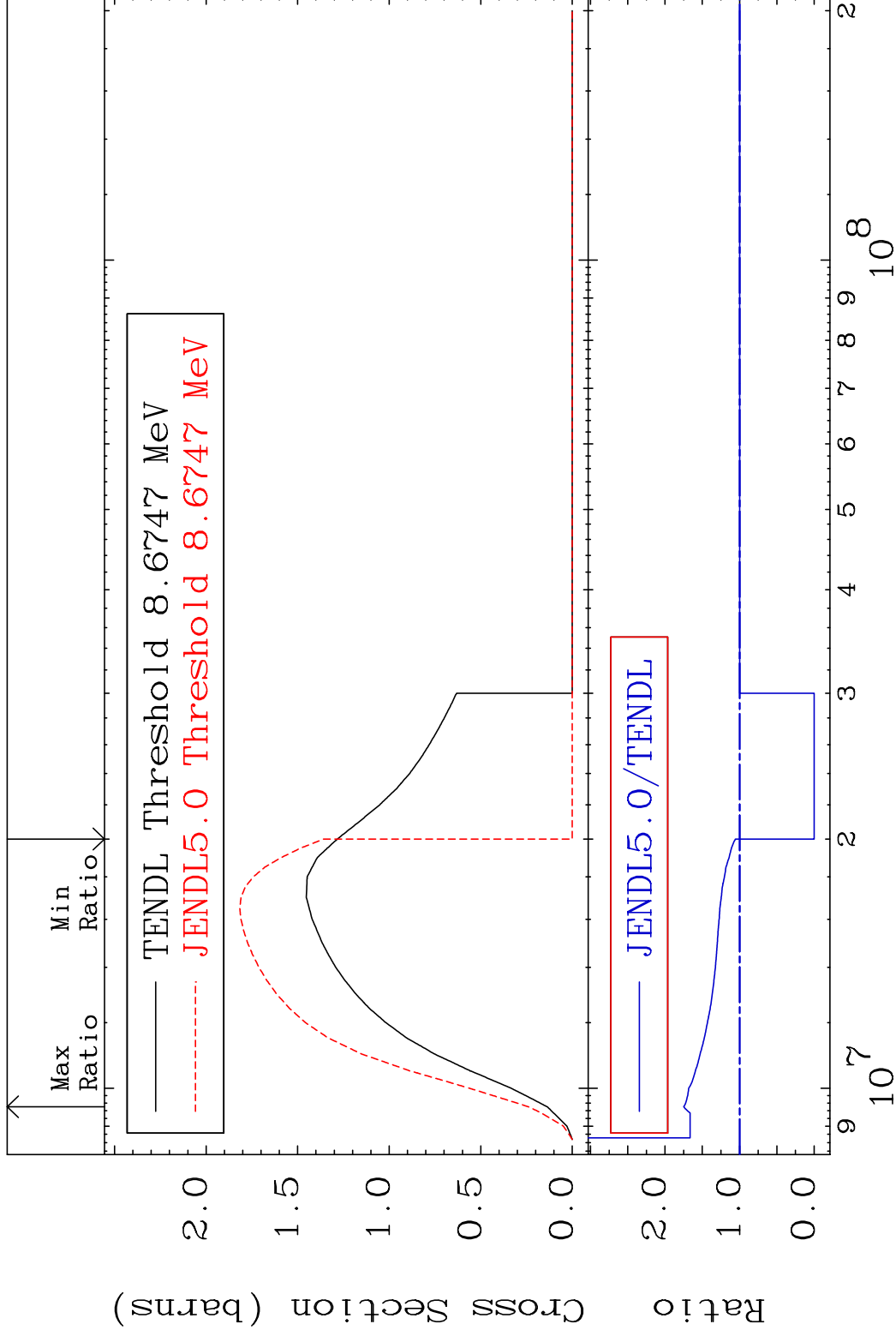
56-Ba-138

MAT 5649

(n,2n)

56-Ba-138

Cross Section -100.0 To 75.00 %



5

Incident Energy (eV)

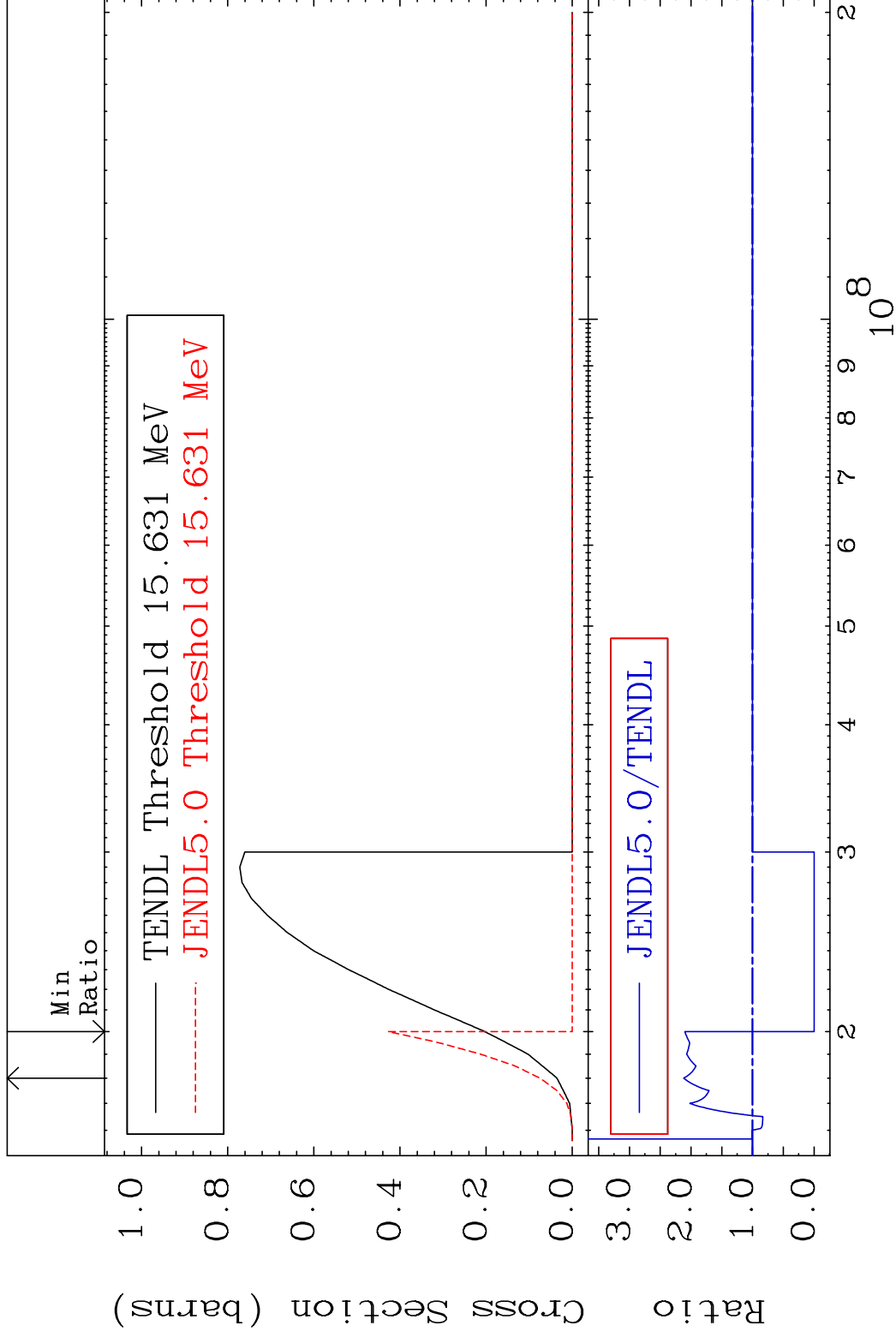
56-Ba-138

MAT 5649

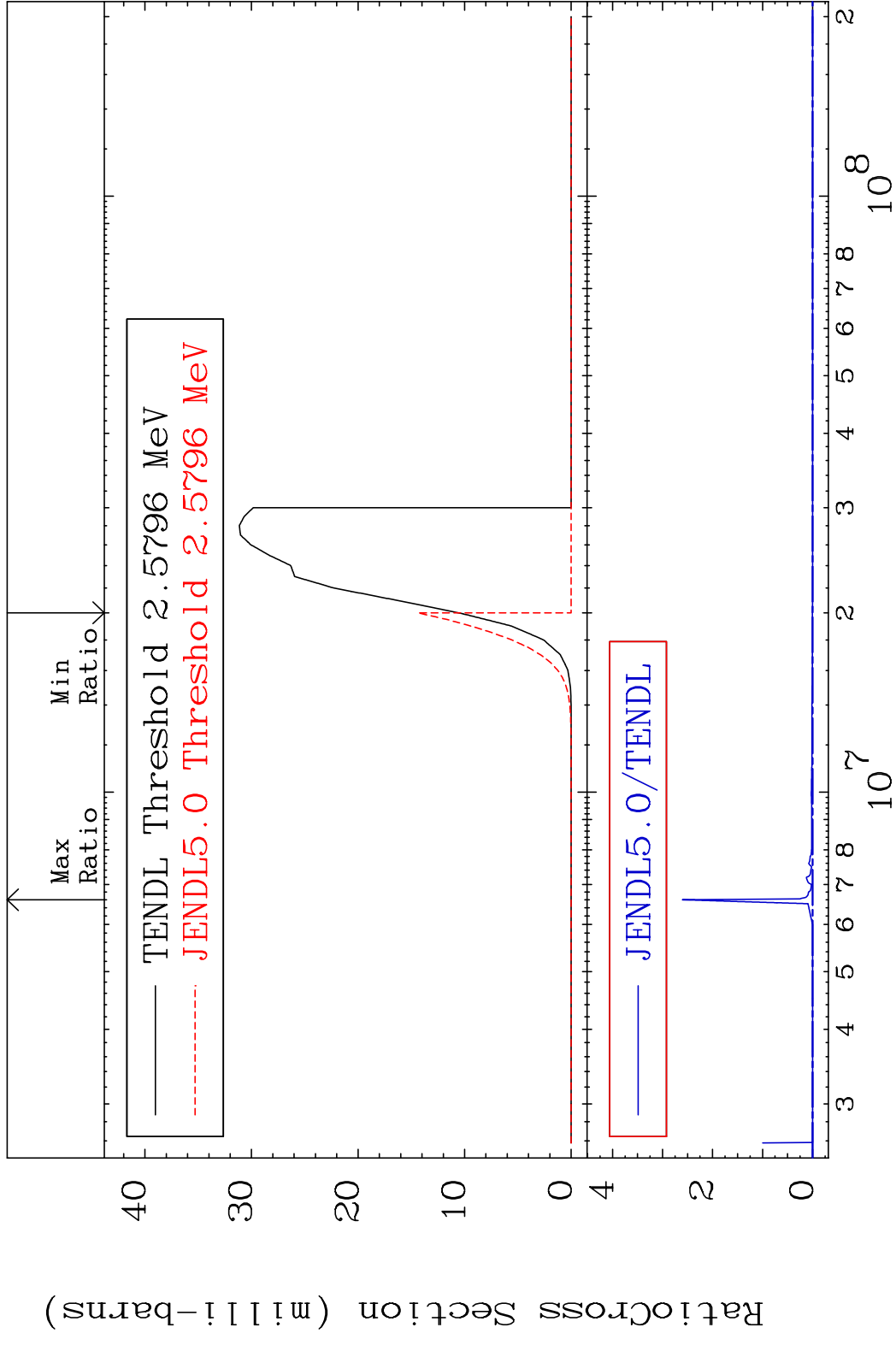
(n,3n)

56-Ba-138

Cross Section -100.0 To 111.9 %

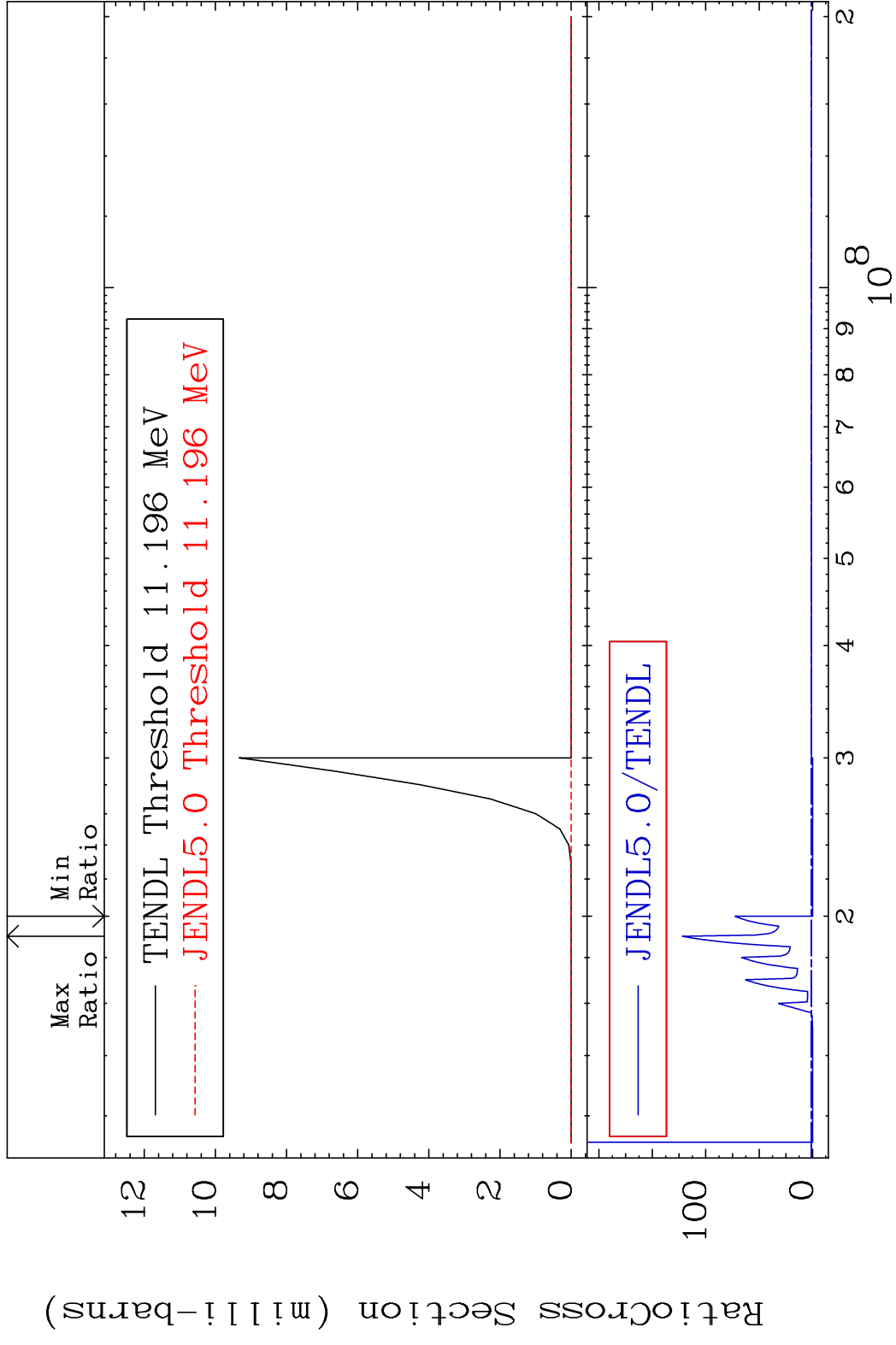


MAT 5649 (n, n') α 56-Ba-138
 Cross Section -100.0 To 9999. %



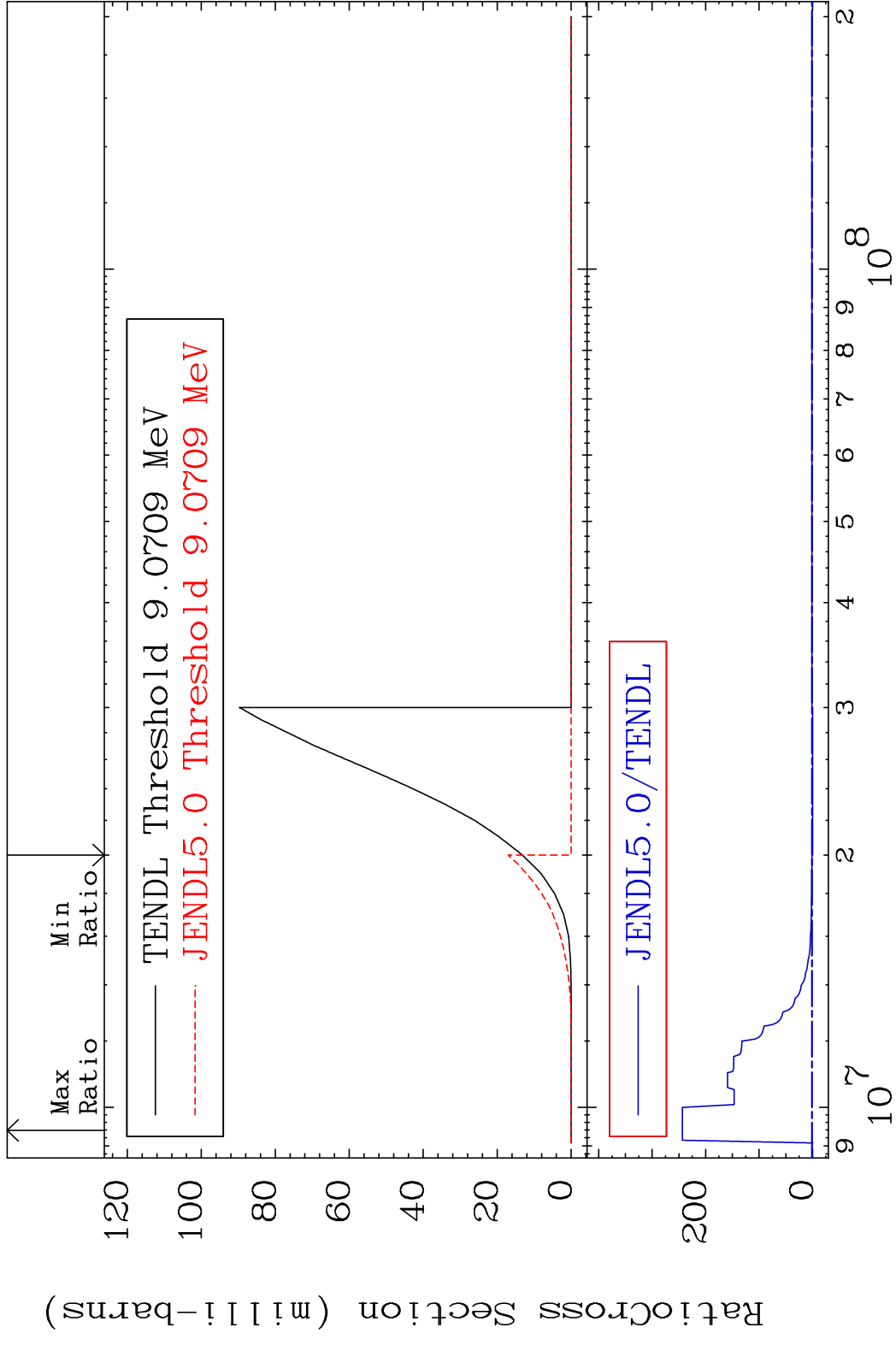
7 Incident Energy (eV) 56-Ba-138

MAT 5649 (n,2n) α 56-Ba-138
 Cross Section -100.0 To 9999. %



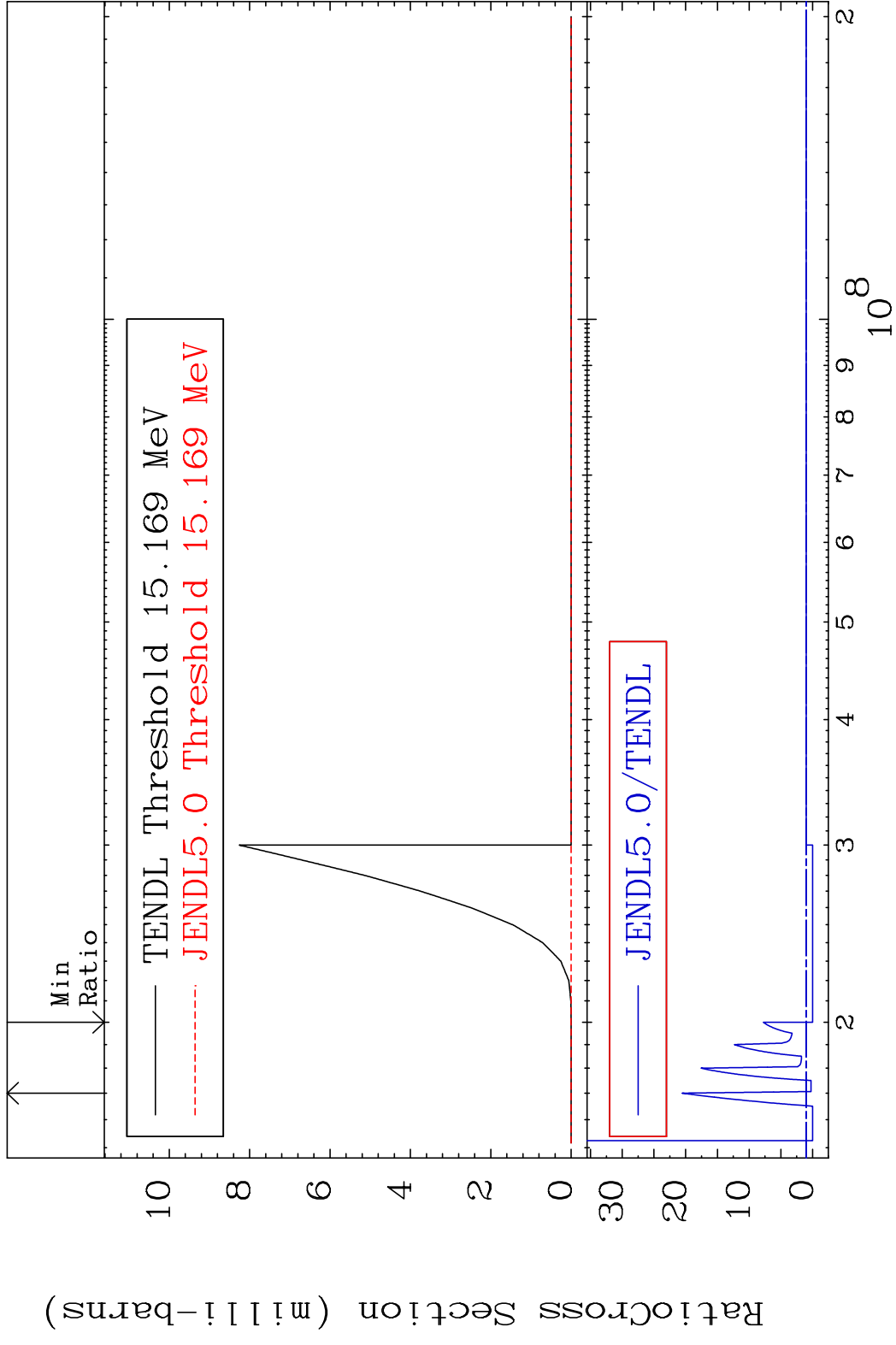
8 Incident Energy (eV) 56-Ba-138

MAT 5649 (n, n') p 56-Ba-138
 Cross Section -100.0 To 9999. %



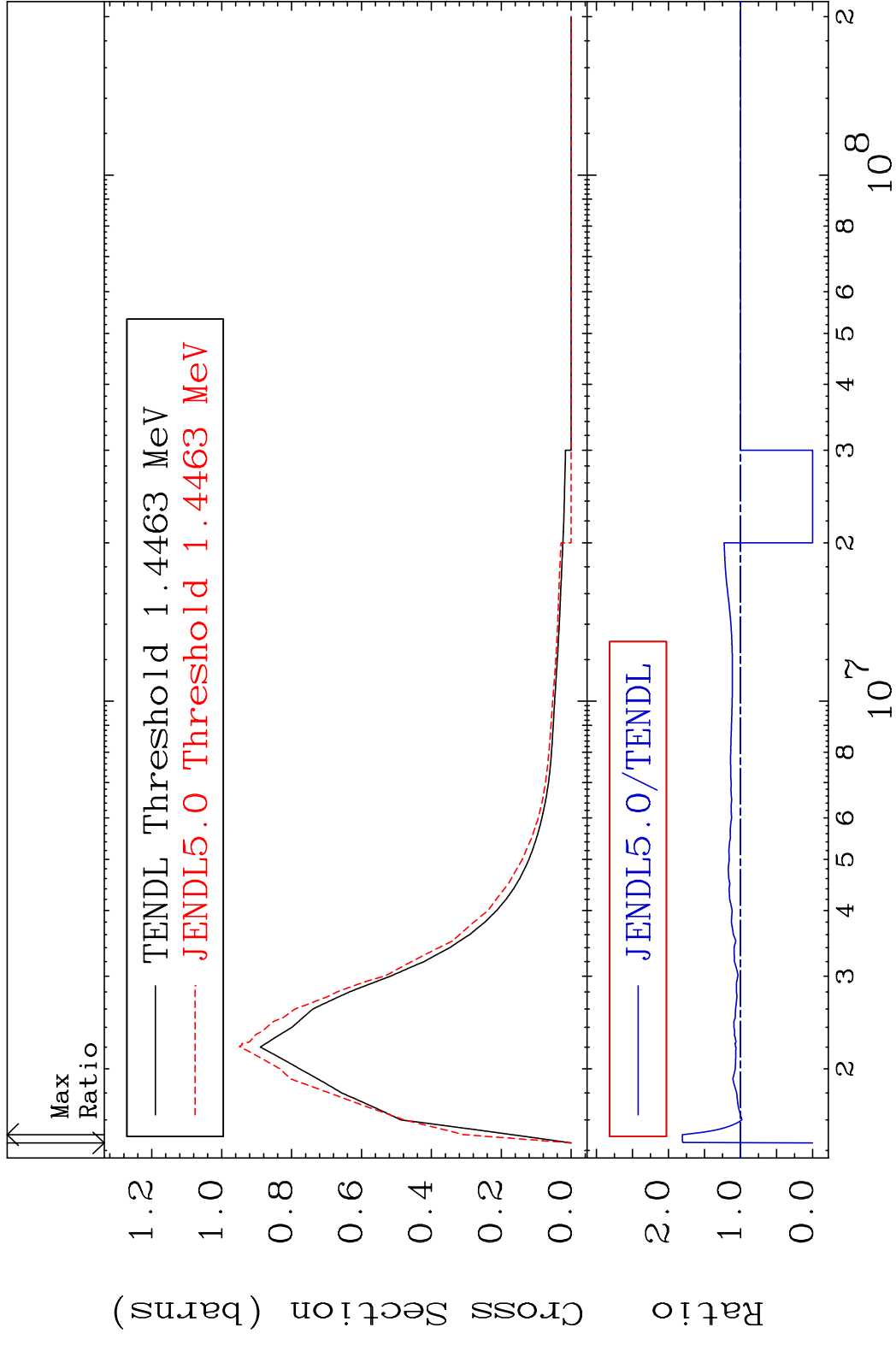
9 9 8 7 6 5 4 3 2 10⁹ 10⁸ 56-Ba-138

MAT 5649 (n, n') d 56-Ba-138
 Cross Section -100.0 To 1953. %

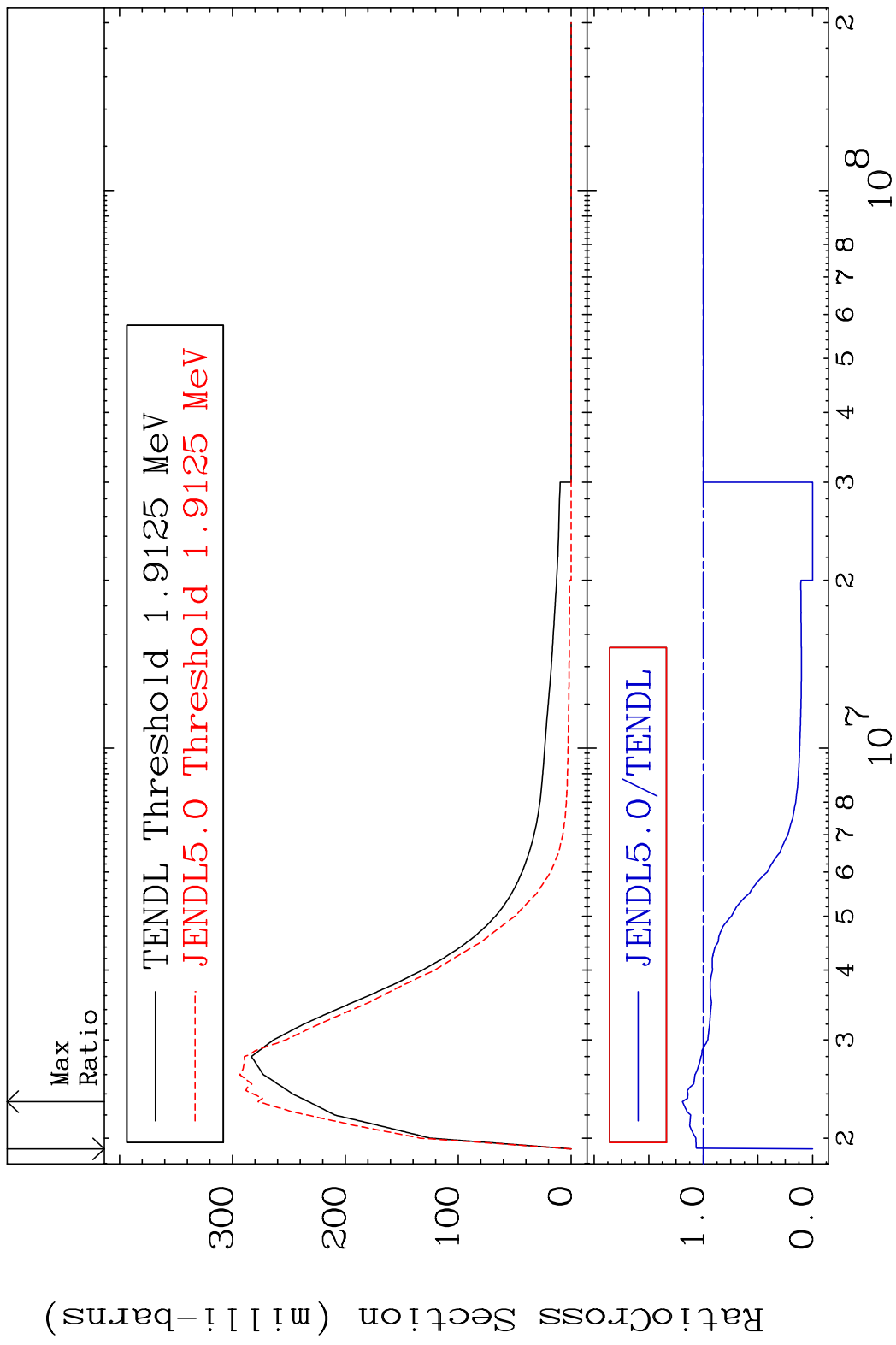


10 Incident Energy (eV) 56-Ba-138

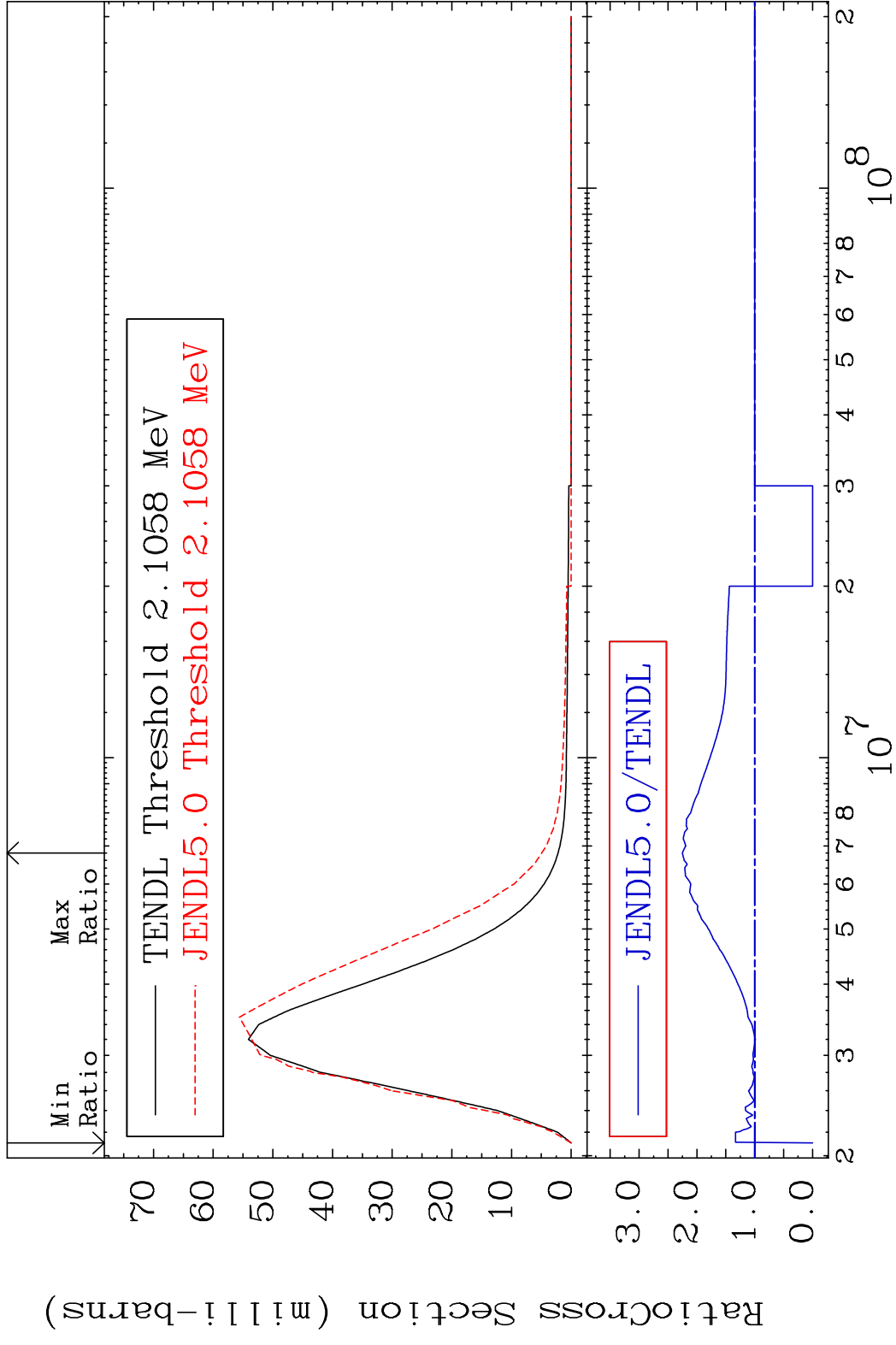
MAT 5649 MT= 51 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 80.71 %



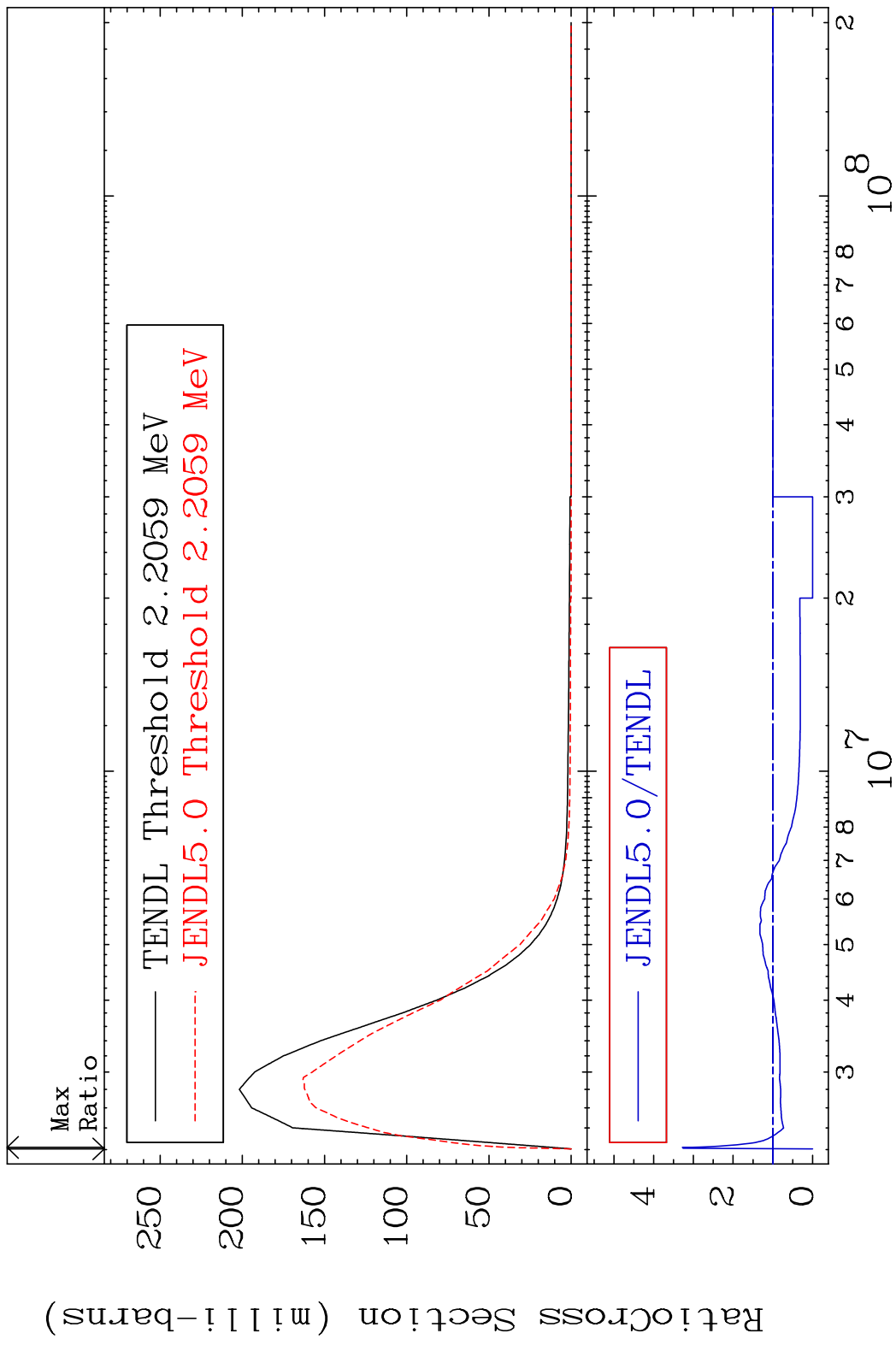
MAT 5649 MT= 52 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 19.23 %



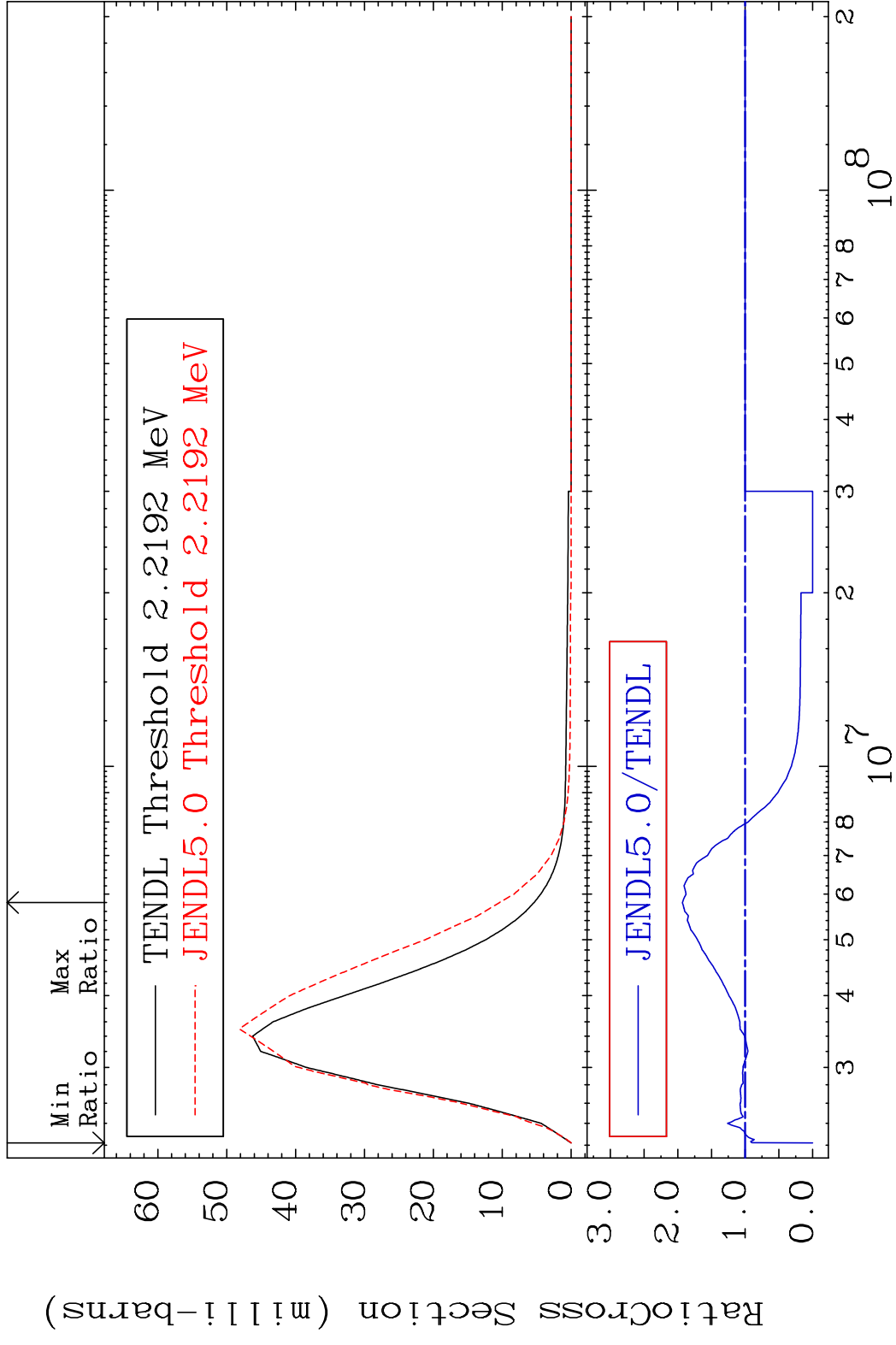
MAT 5649 MT= 53 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 125.2 %



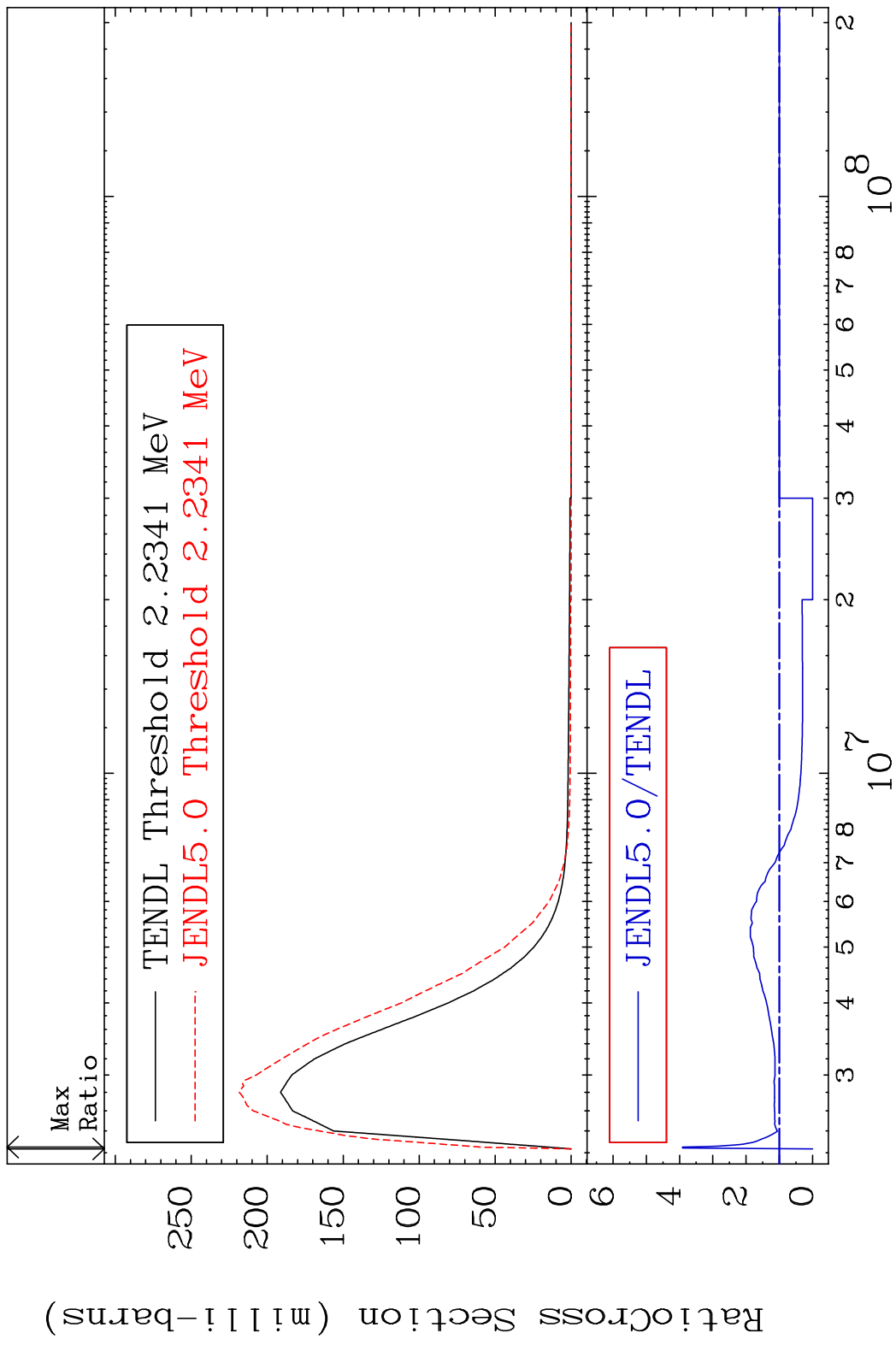
MAT 5649 MT= 54 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 227.8 %



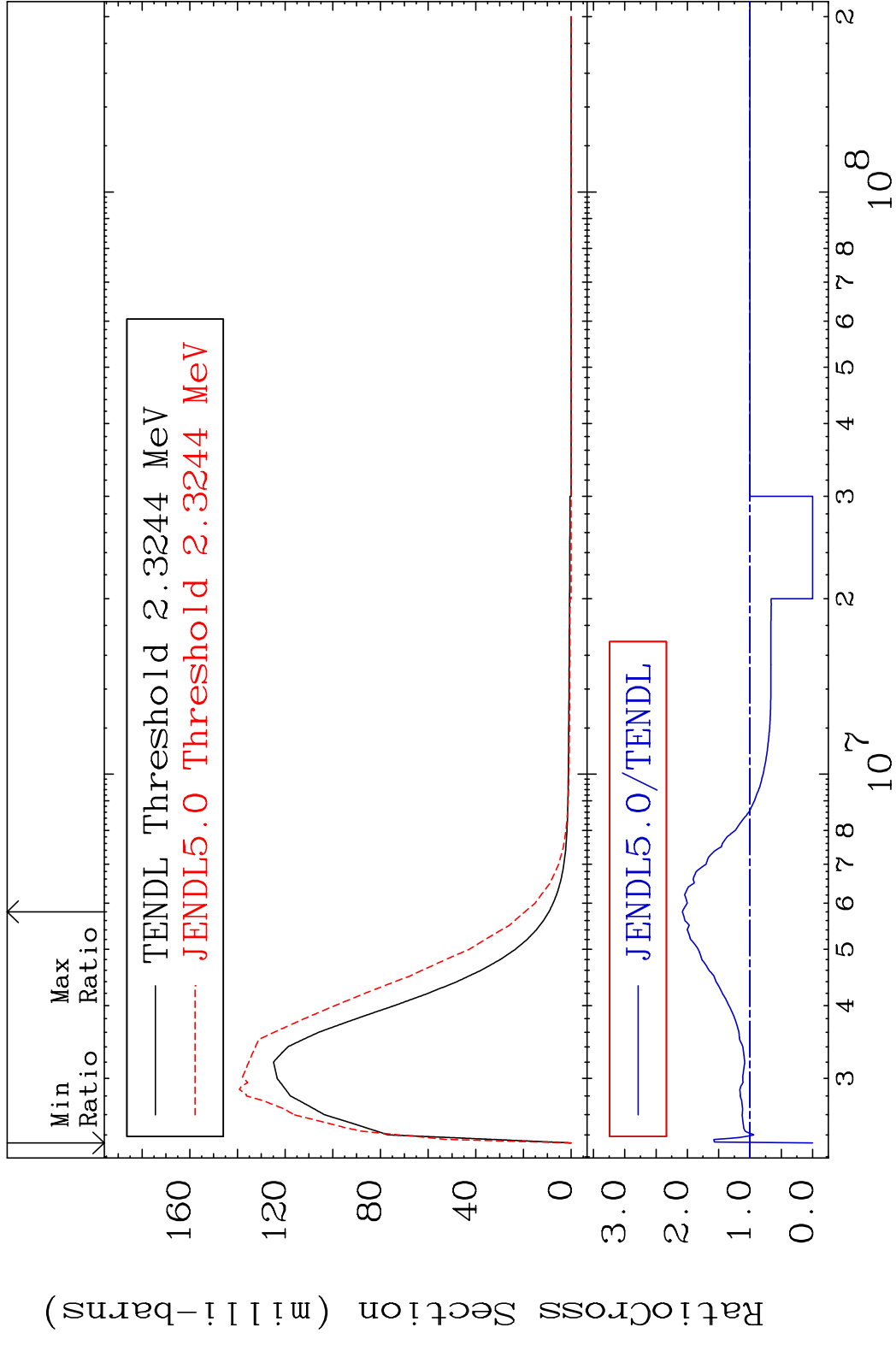
MAT 5649 MT= 55 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 93.22 %



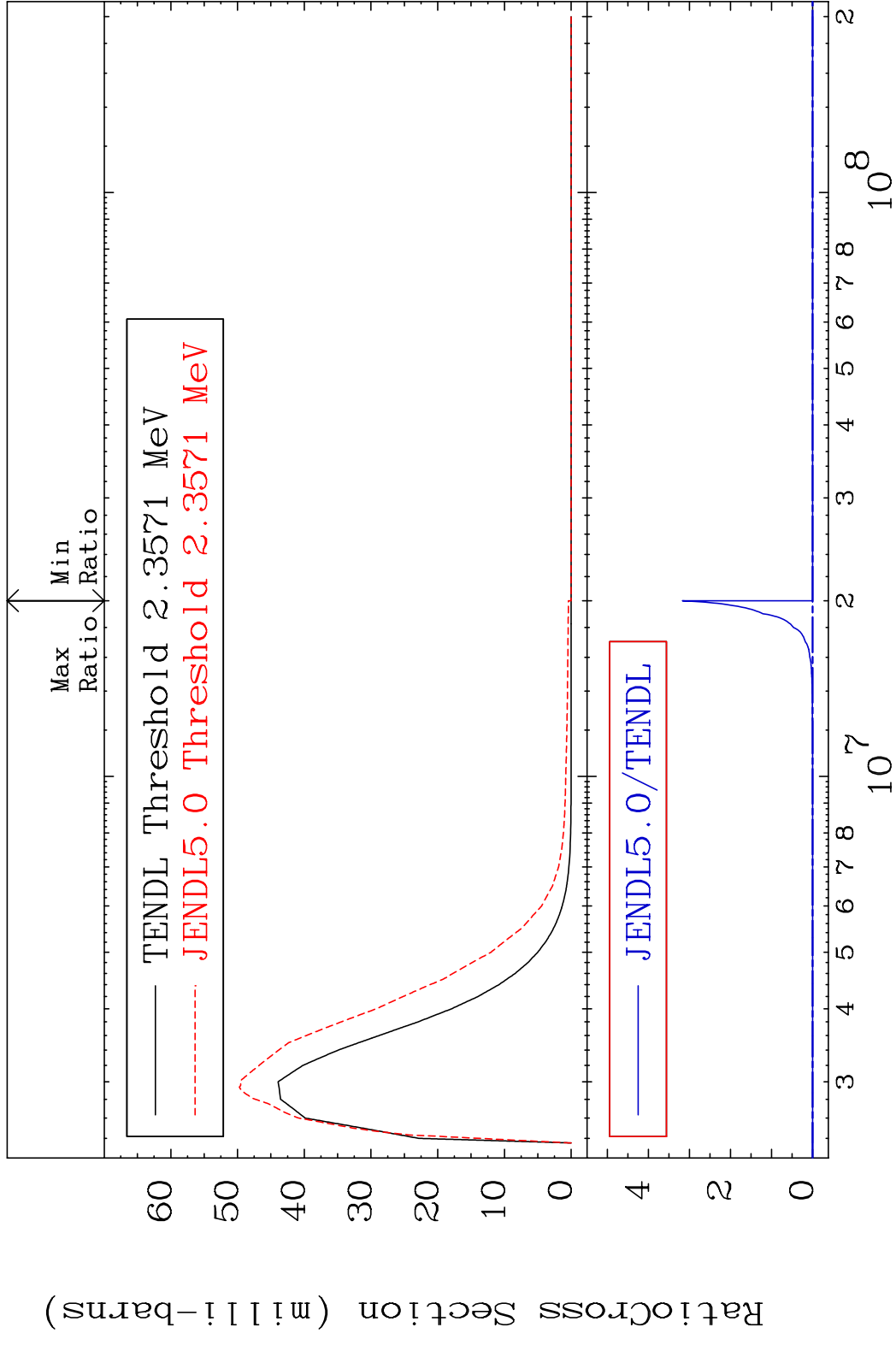
MAT 5649 MT= 56 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 291.6 %



MAT 5649 MT= 57 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 108.0 %

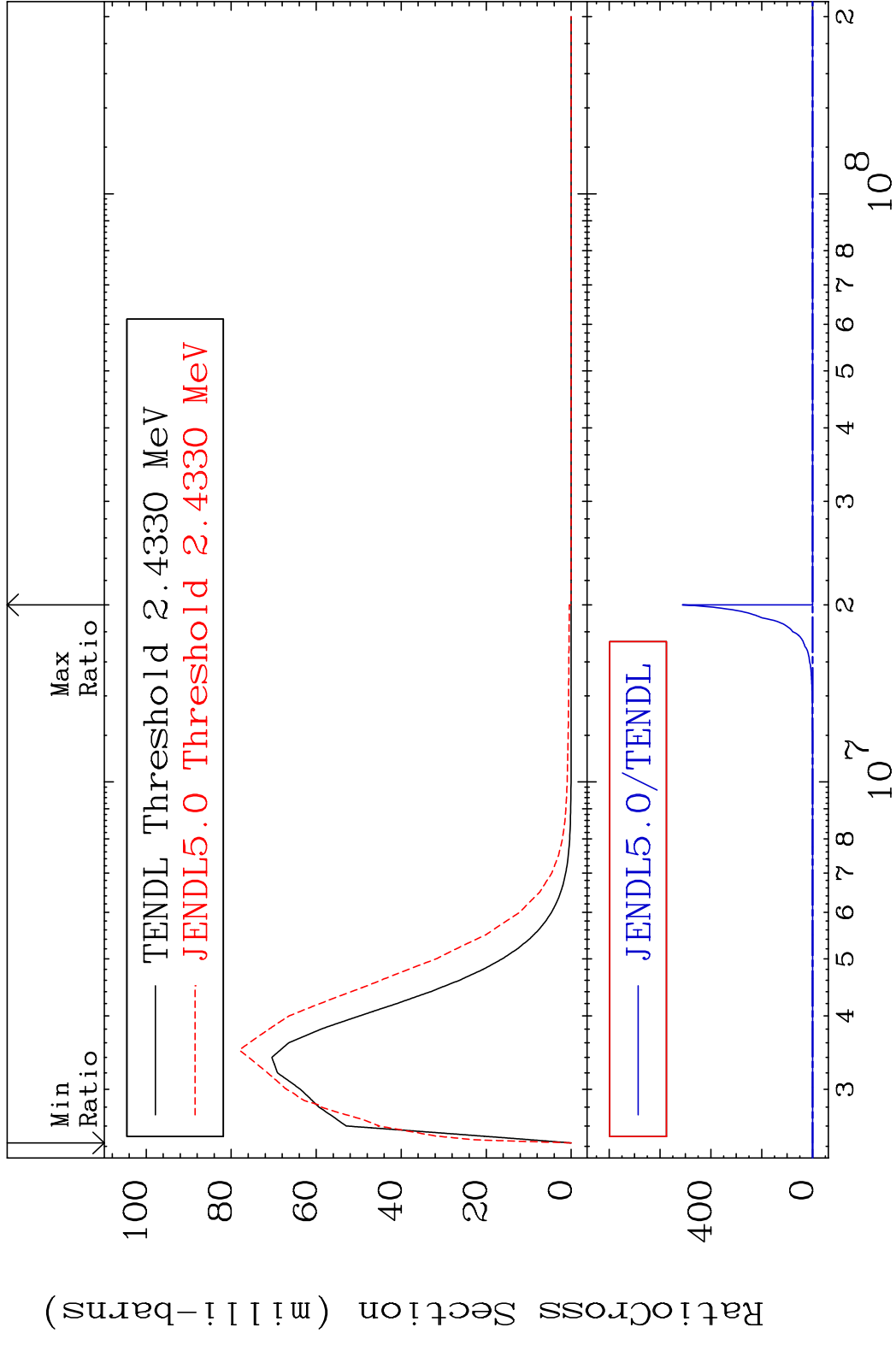


MAT 5649 MT= 58 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %

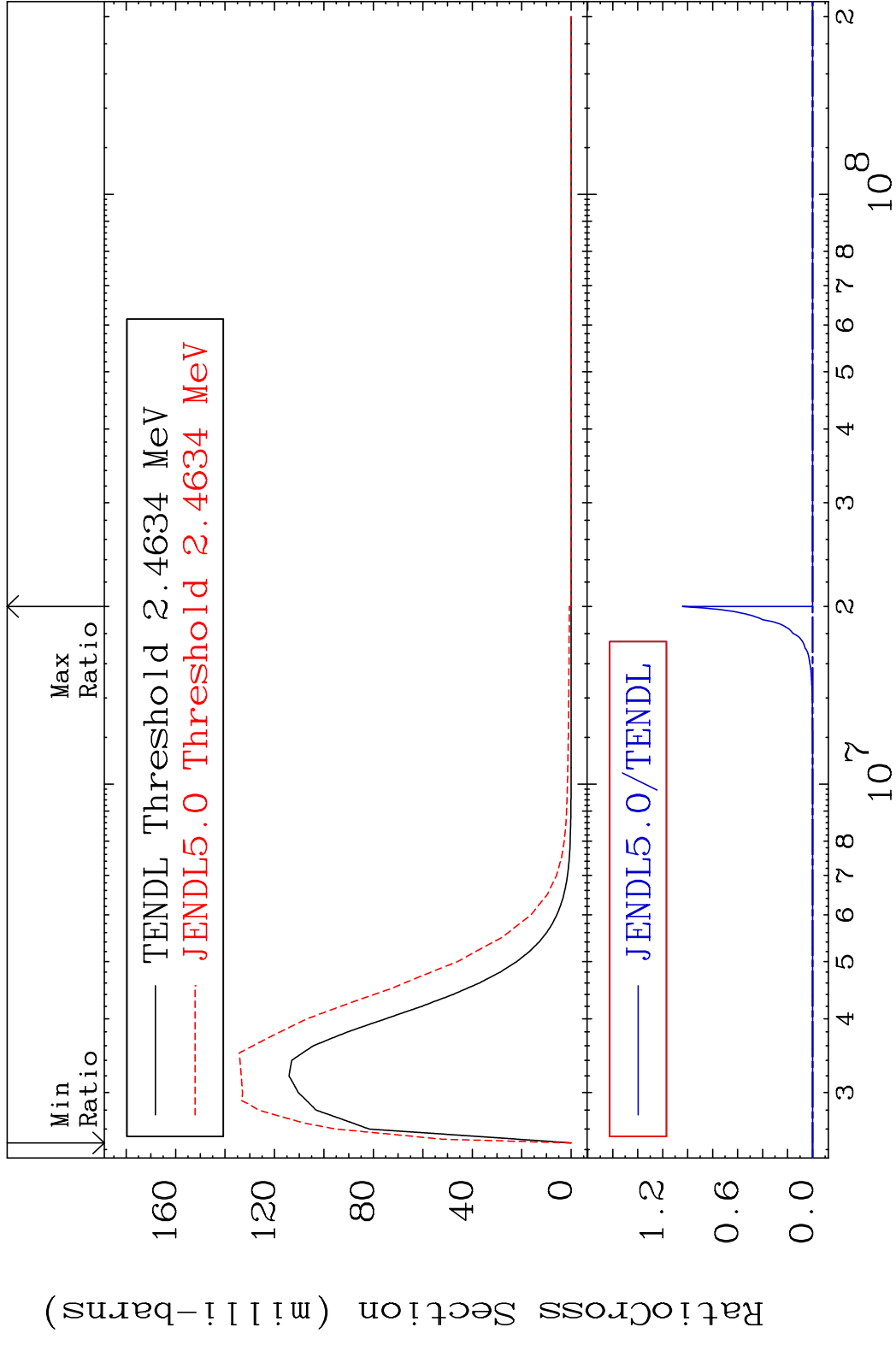


18 56-Ba-138

MAT 5649 MT= 59 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %

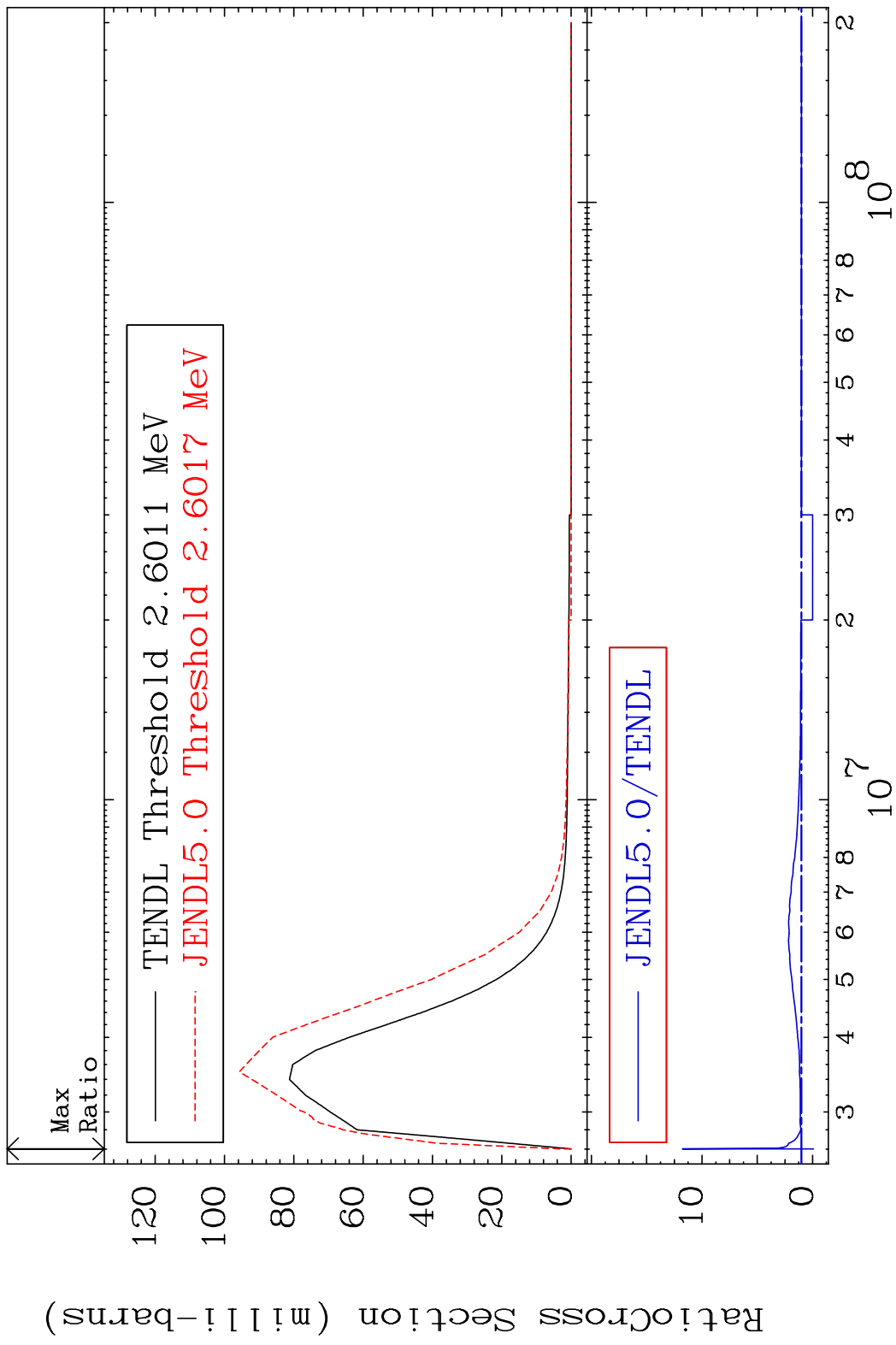


MAT 5649 MT= 60 (n, n') Level 56-Ba-138
Cross Section -100.0 To 9999. %



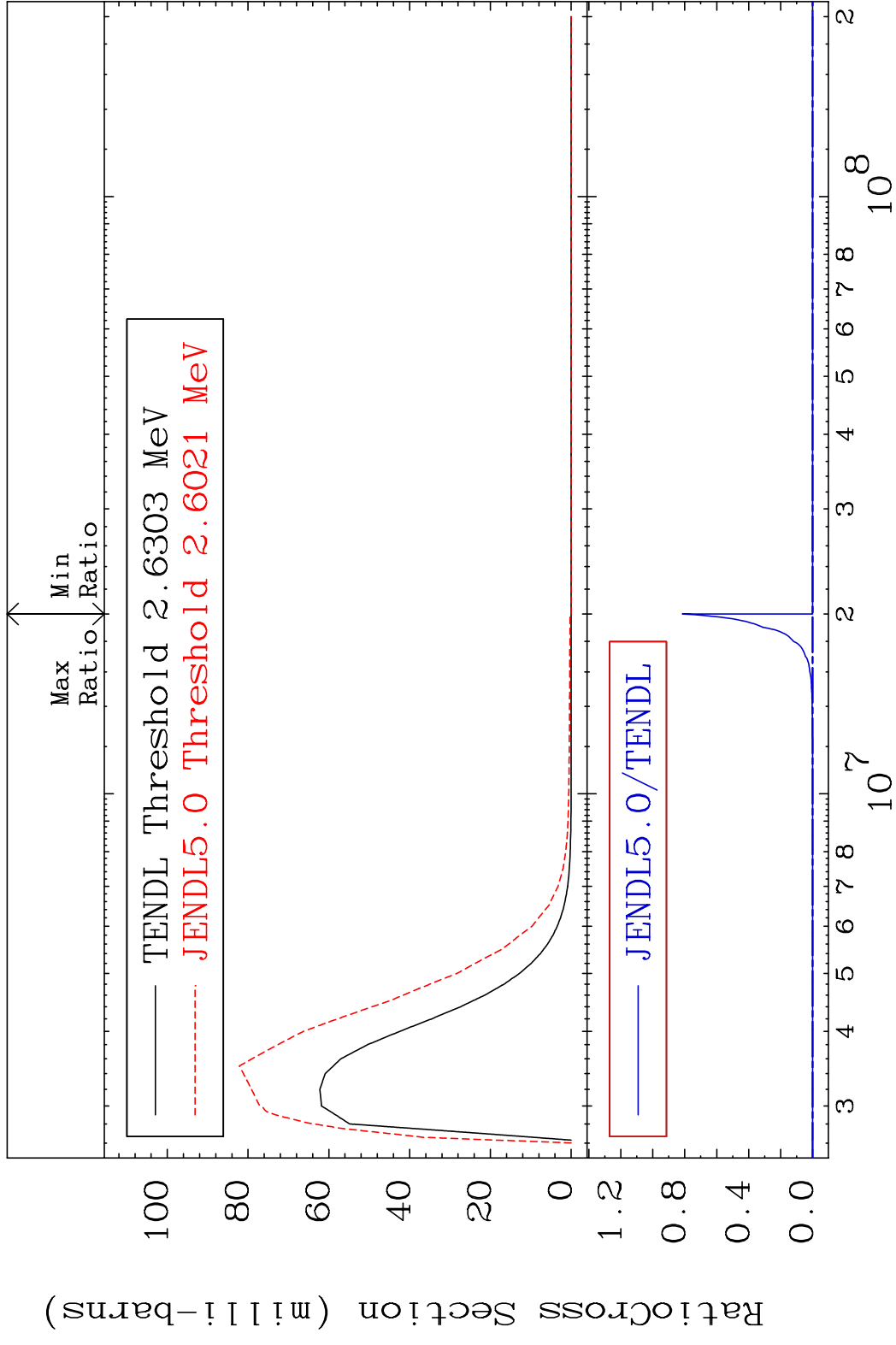
20 Incident Energy (eV) 56-Ba-138

MAT 5649 MT= 61 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 1078. %

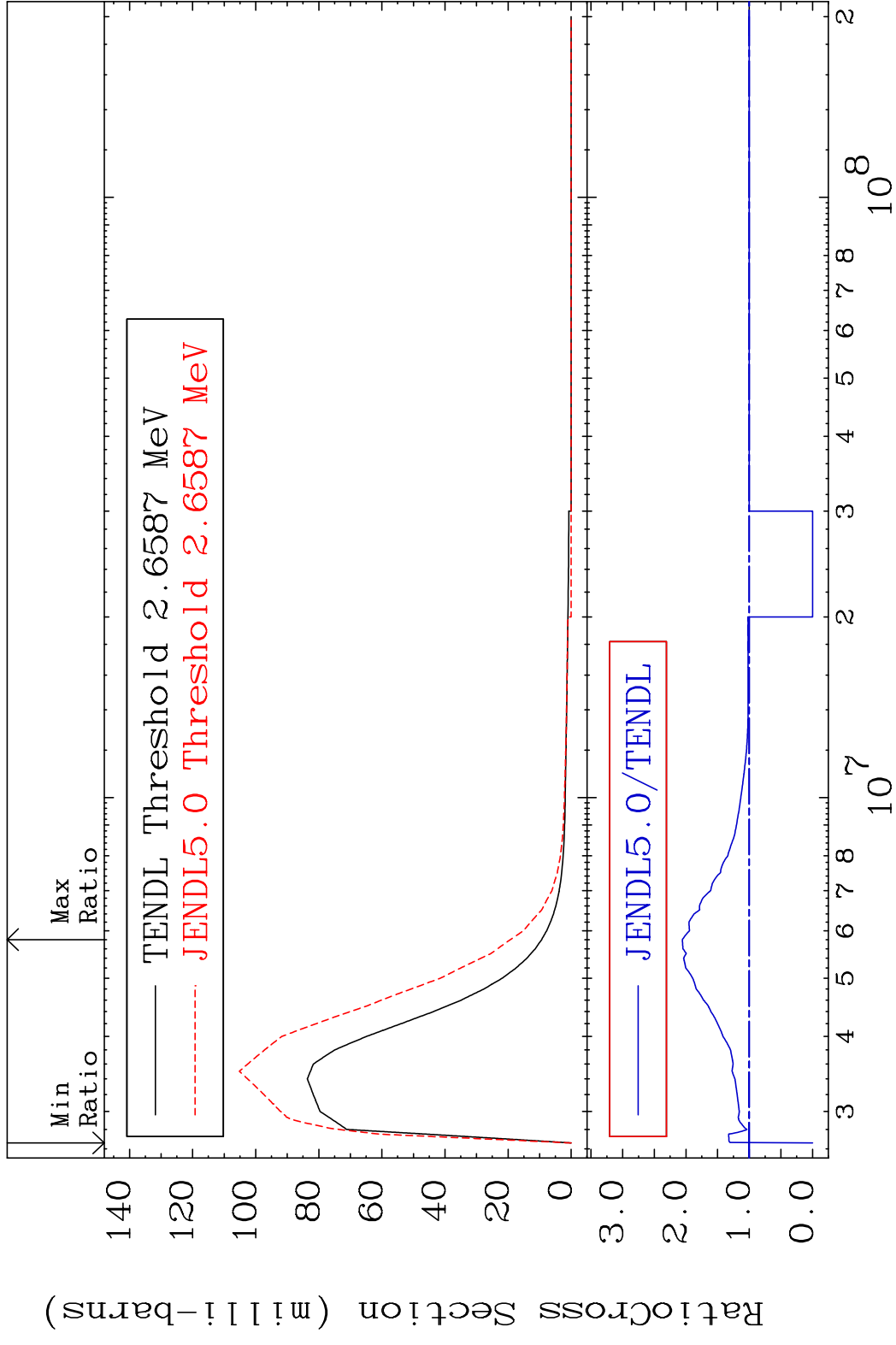


21 Incident Energy (eV) 56-Ba-138

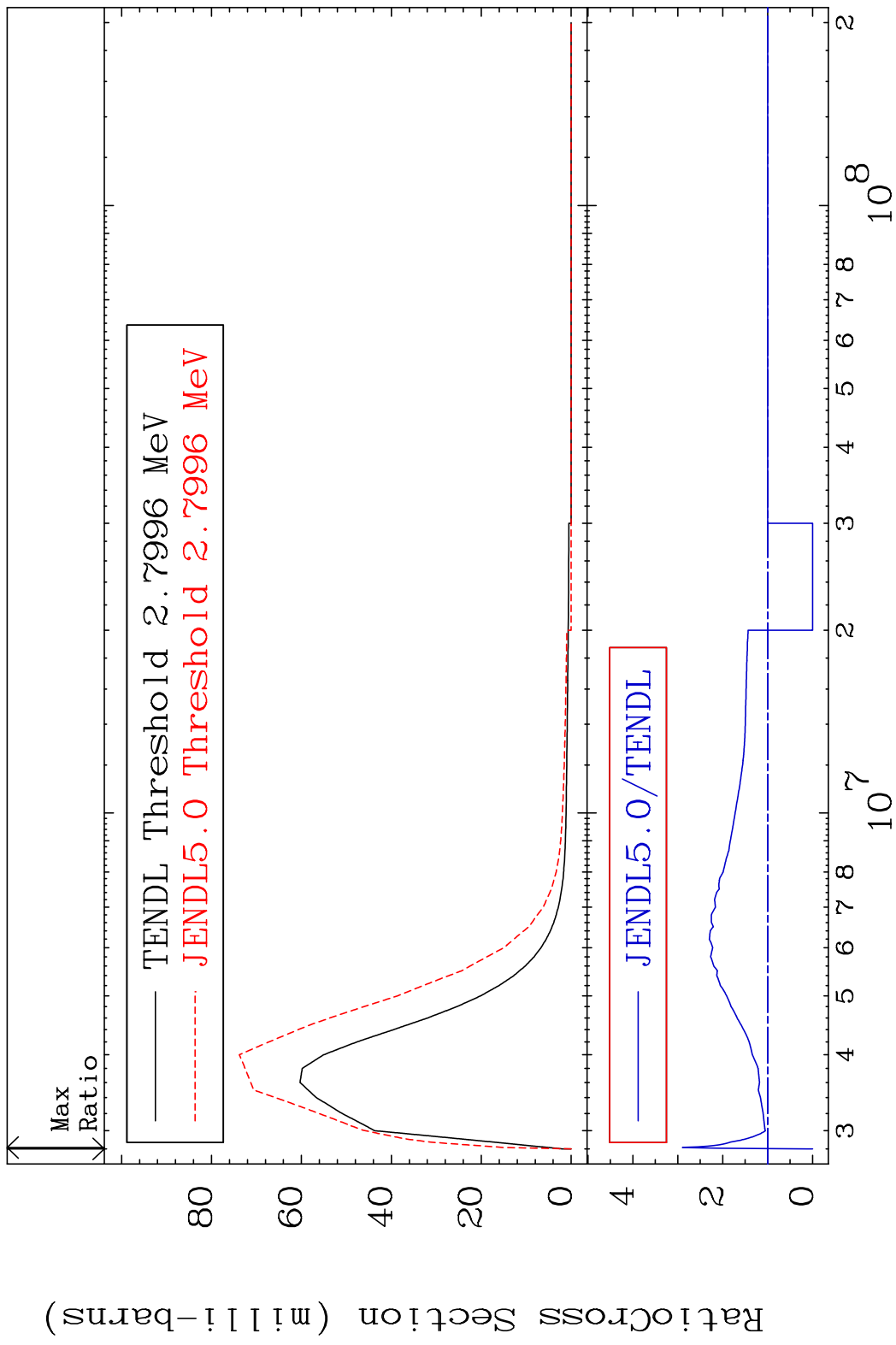
MAT 5649 MT= 62 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %



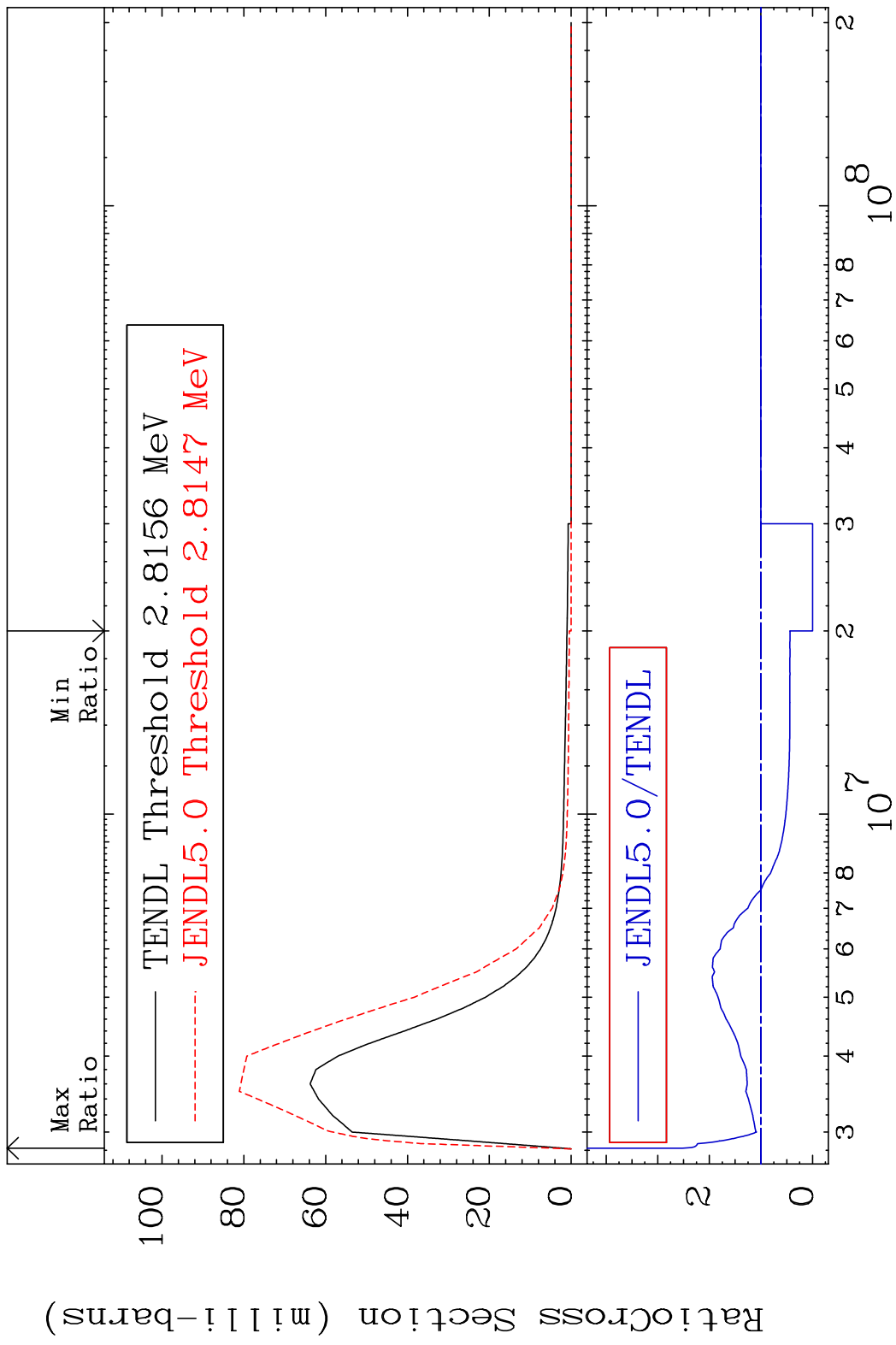
MAT 5649 MT= 63 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 105.7 %



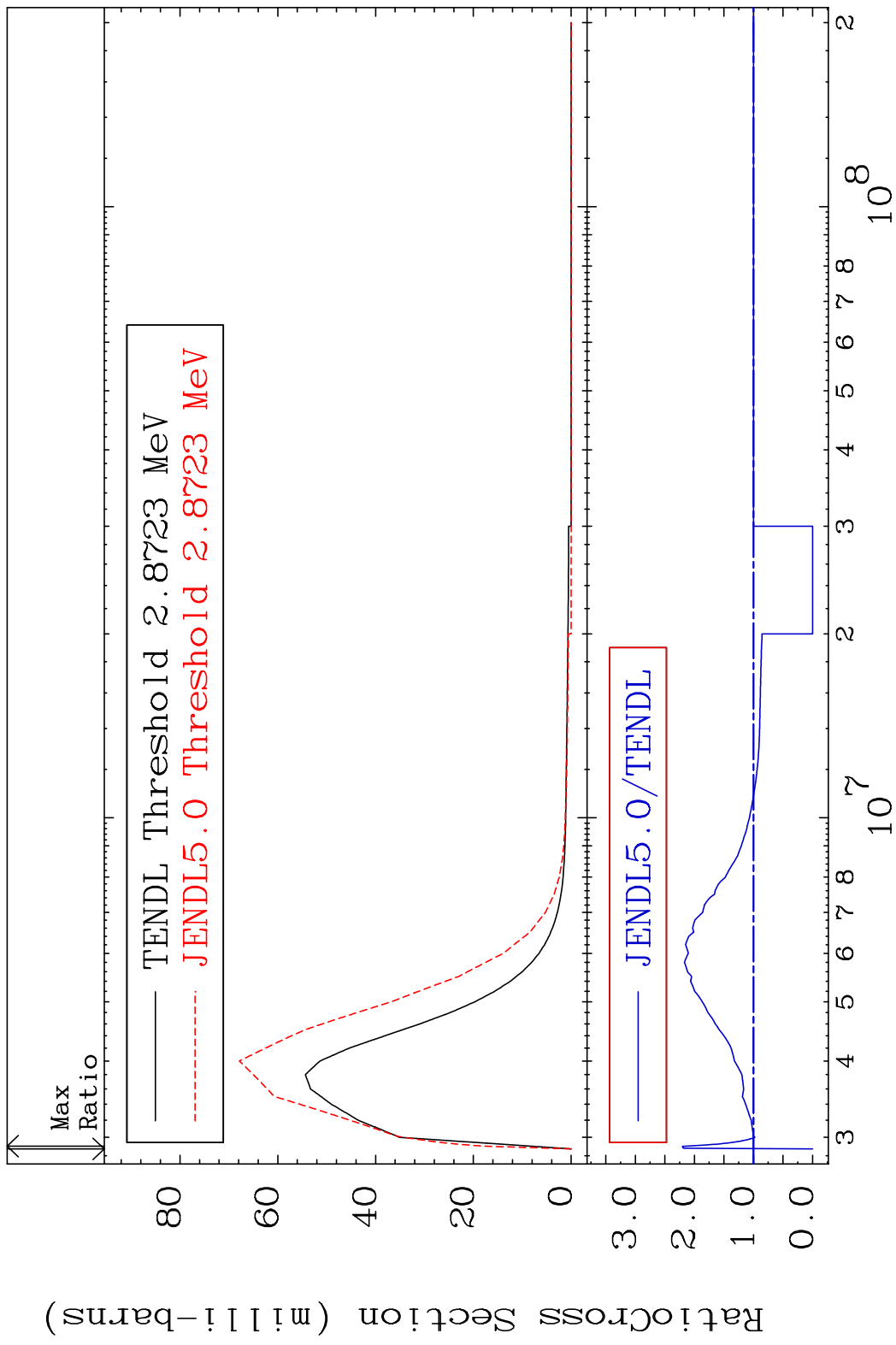
MAT 5649 MT= 64 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 189.9 %



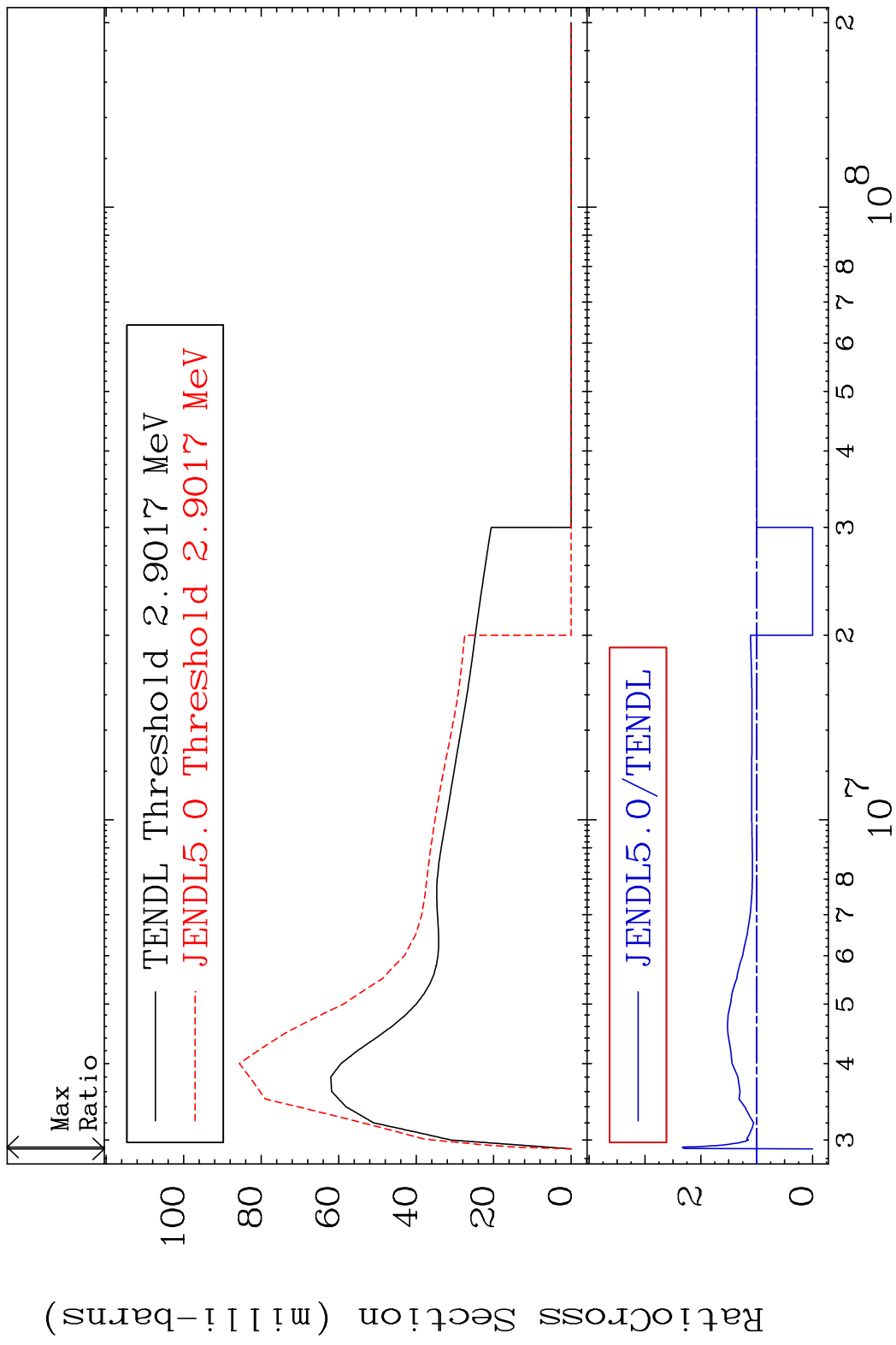
MAT 5649 MT= 65 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 152.3 %



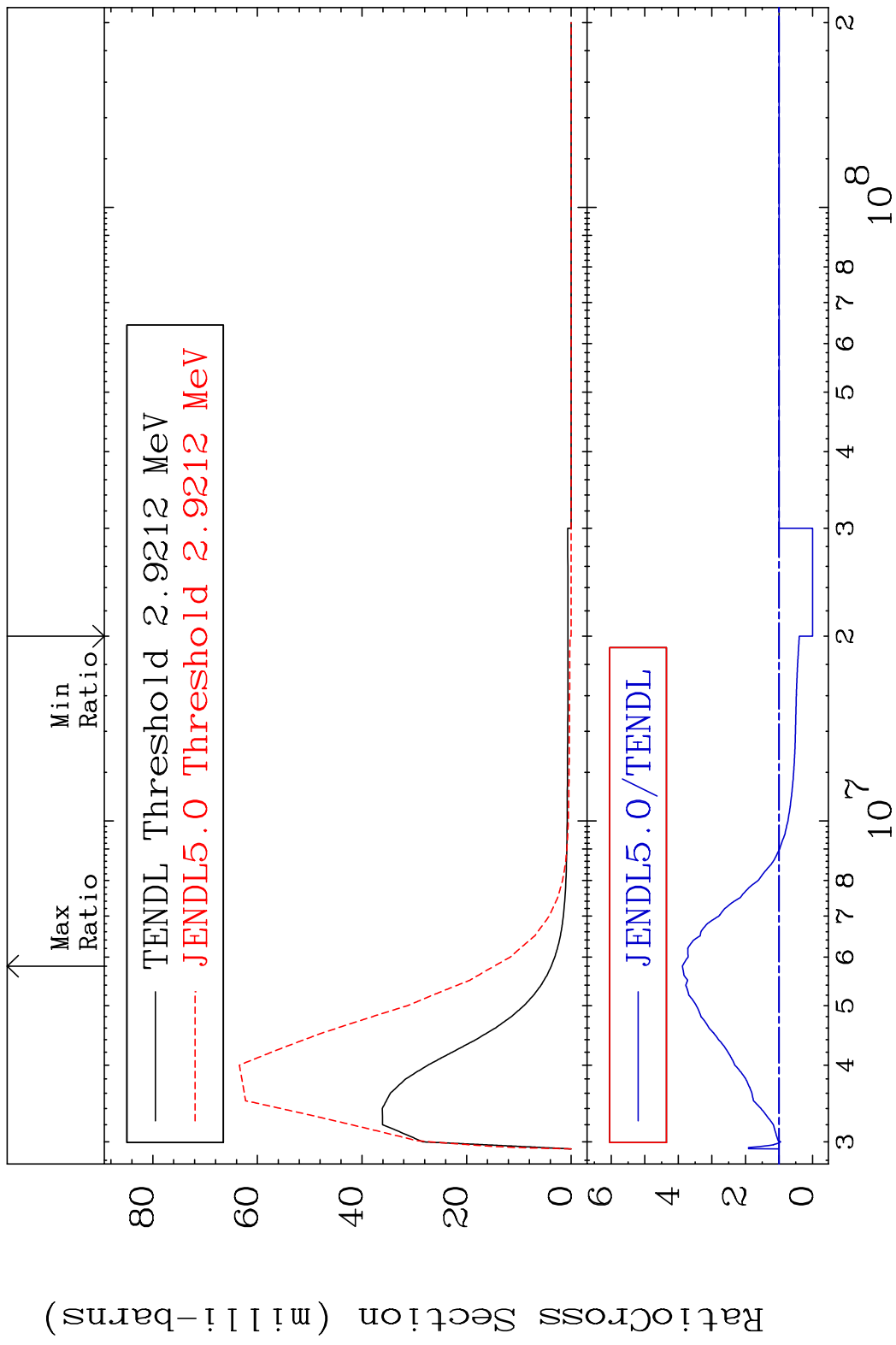
MAT 5649 MT= 66 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 120.4 %



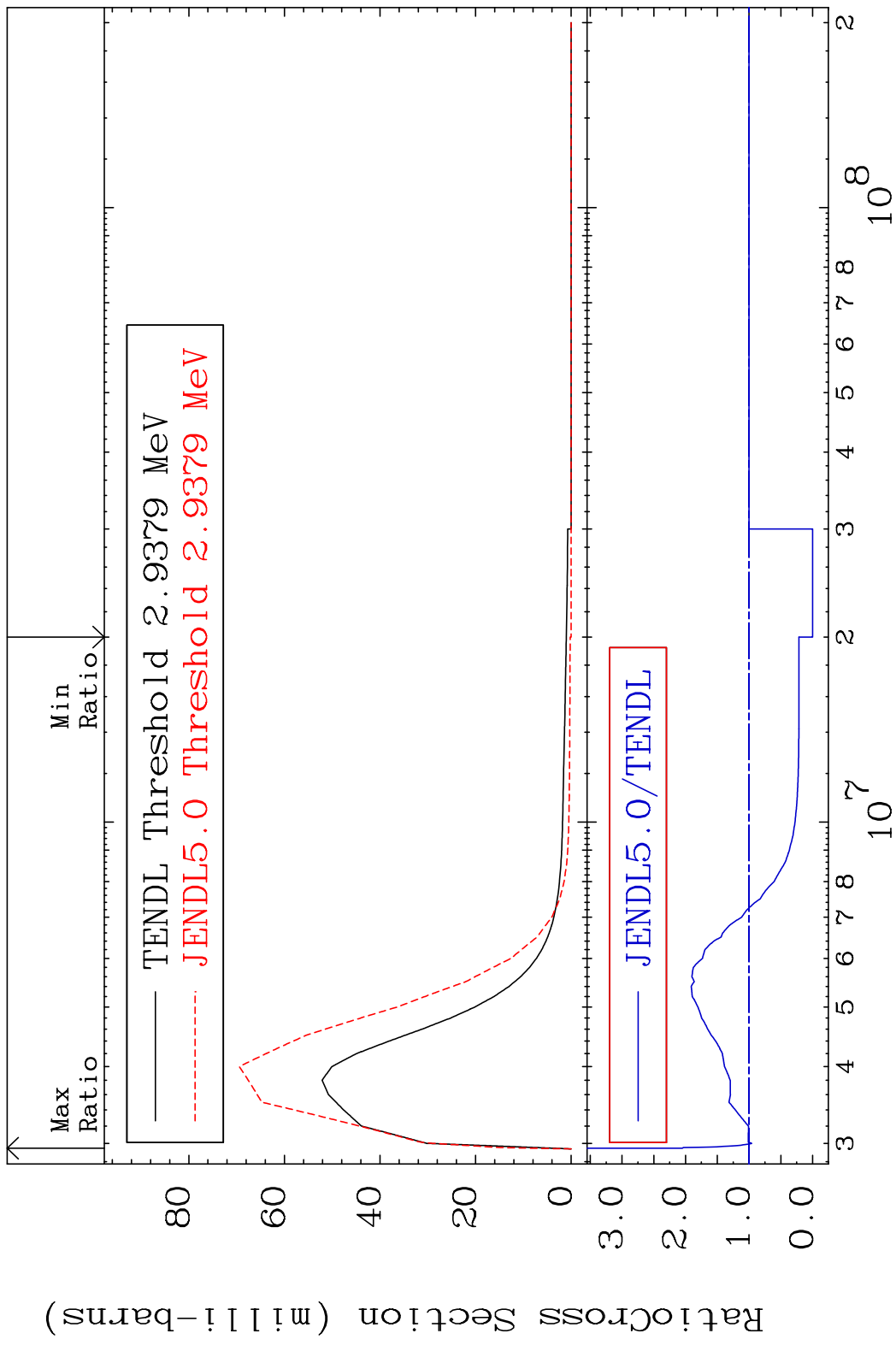
MAT 5649 MT= 67 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 133.1 %



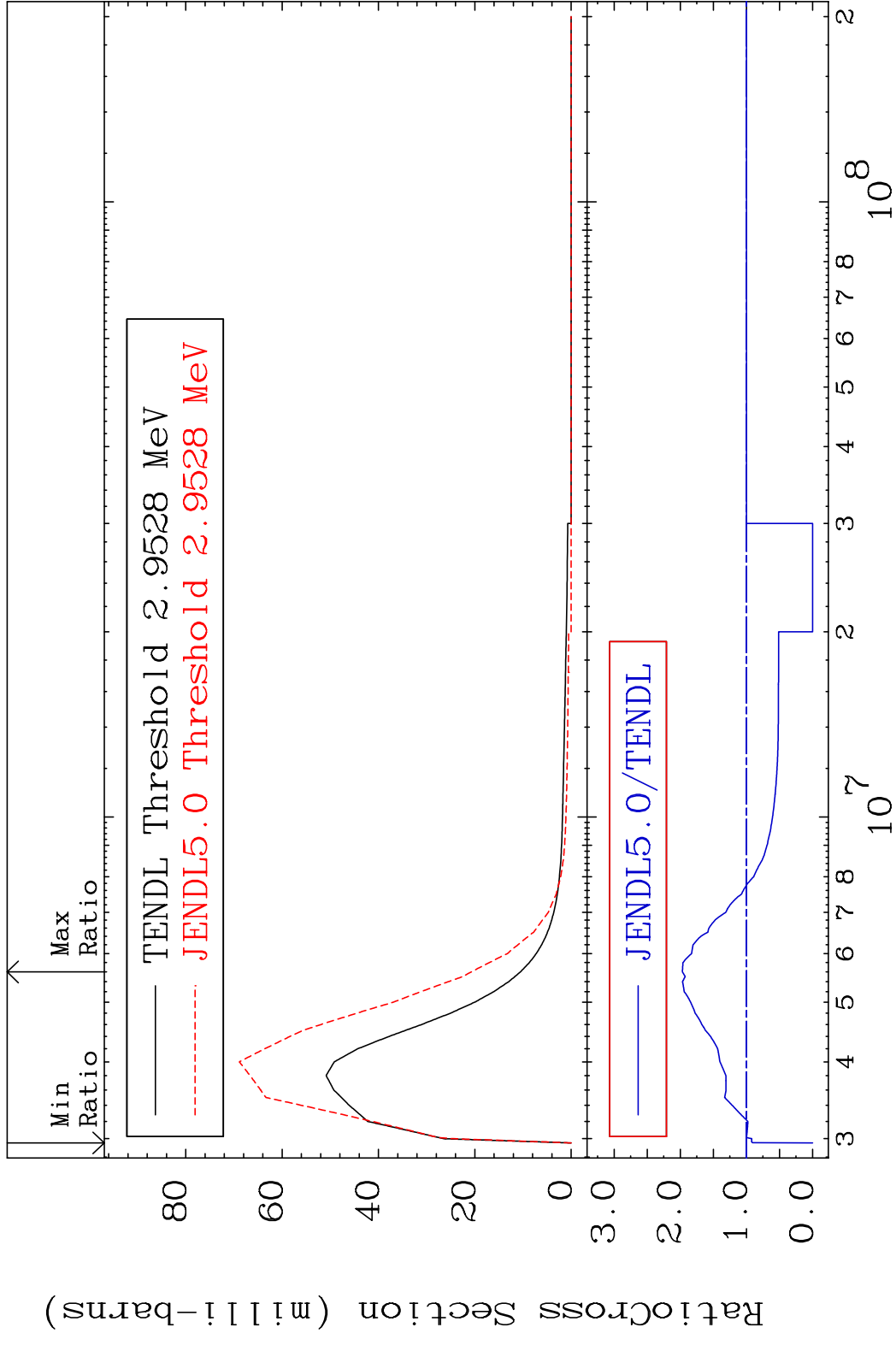
MAT 5649 MT= 68 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 288.1 %



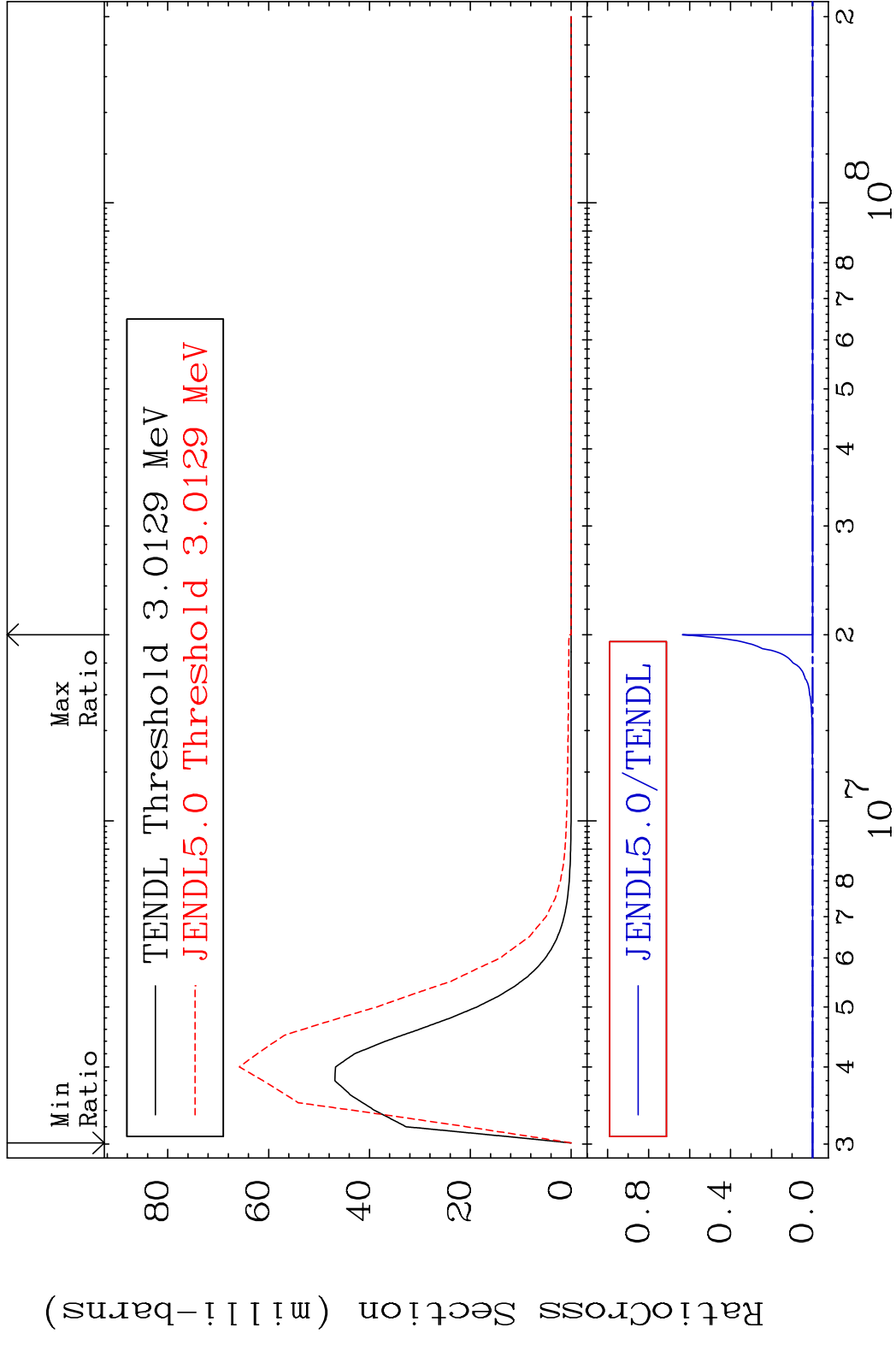
MAT 5649 MT= 69 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 105.0 %



MAT 5649 MT= 70 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 96.89 %



MAT 5649 MT= 71 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %

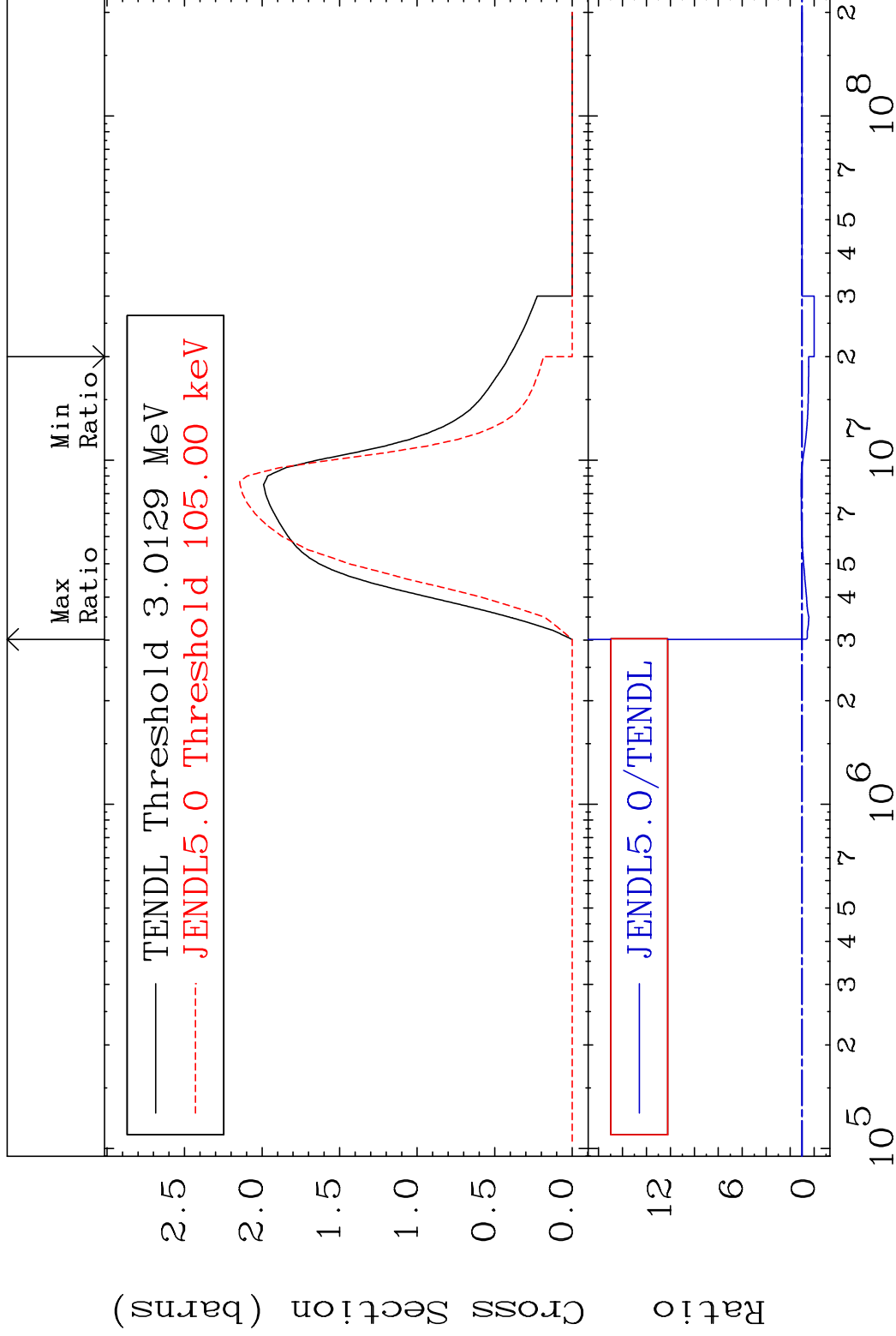


MAT 5649

(n, n') Continuum

56-Ba-138

Cross Section -100.0 To 989.1 %



32

Incident Energy (eV)

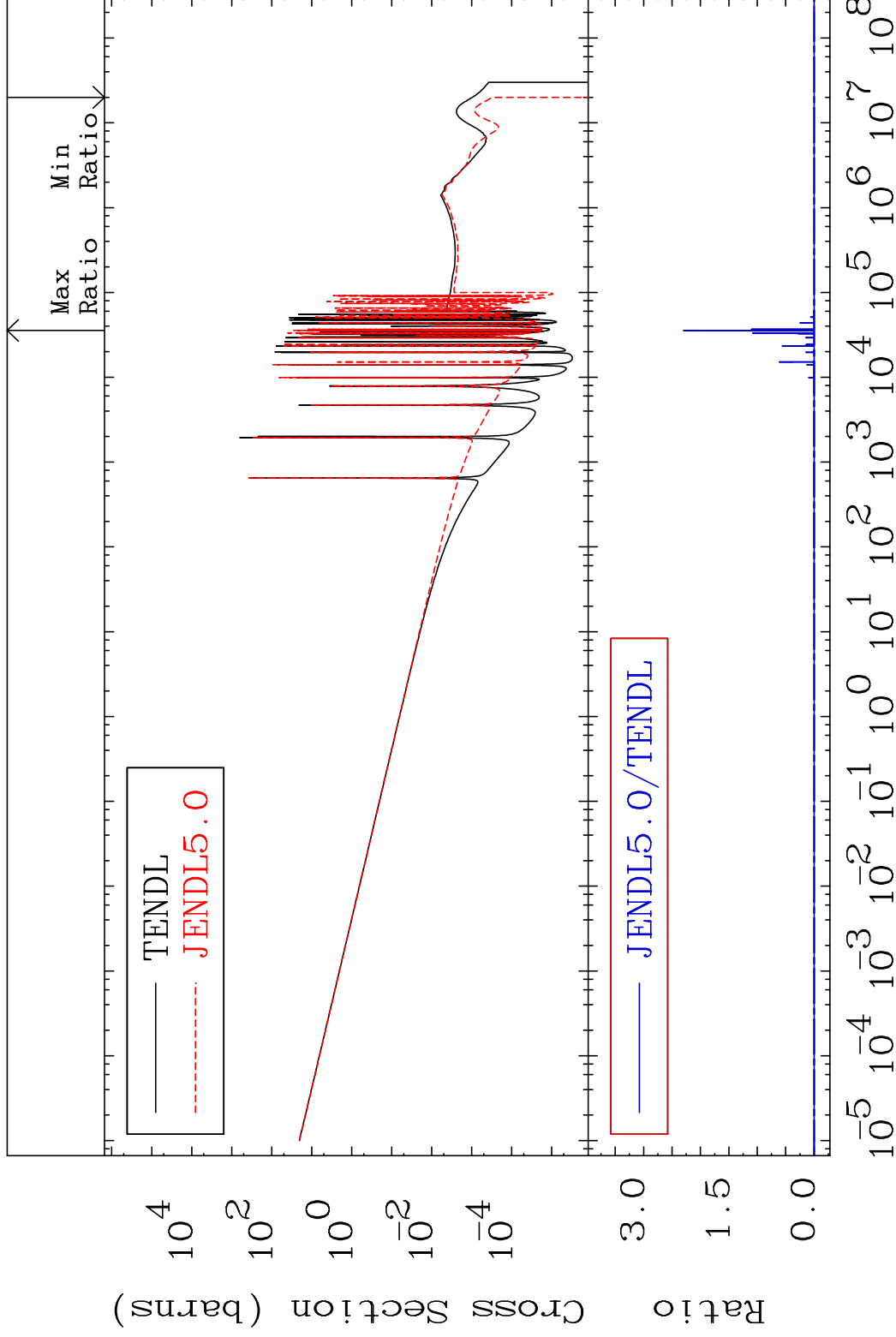
56-Ba-138

MAT 5649

(n, γ)

56-Ba-138

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

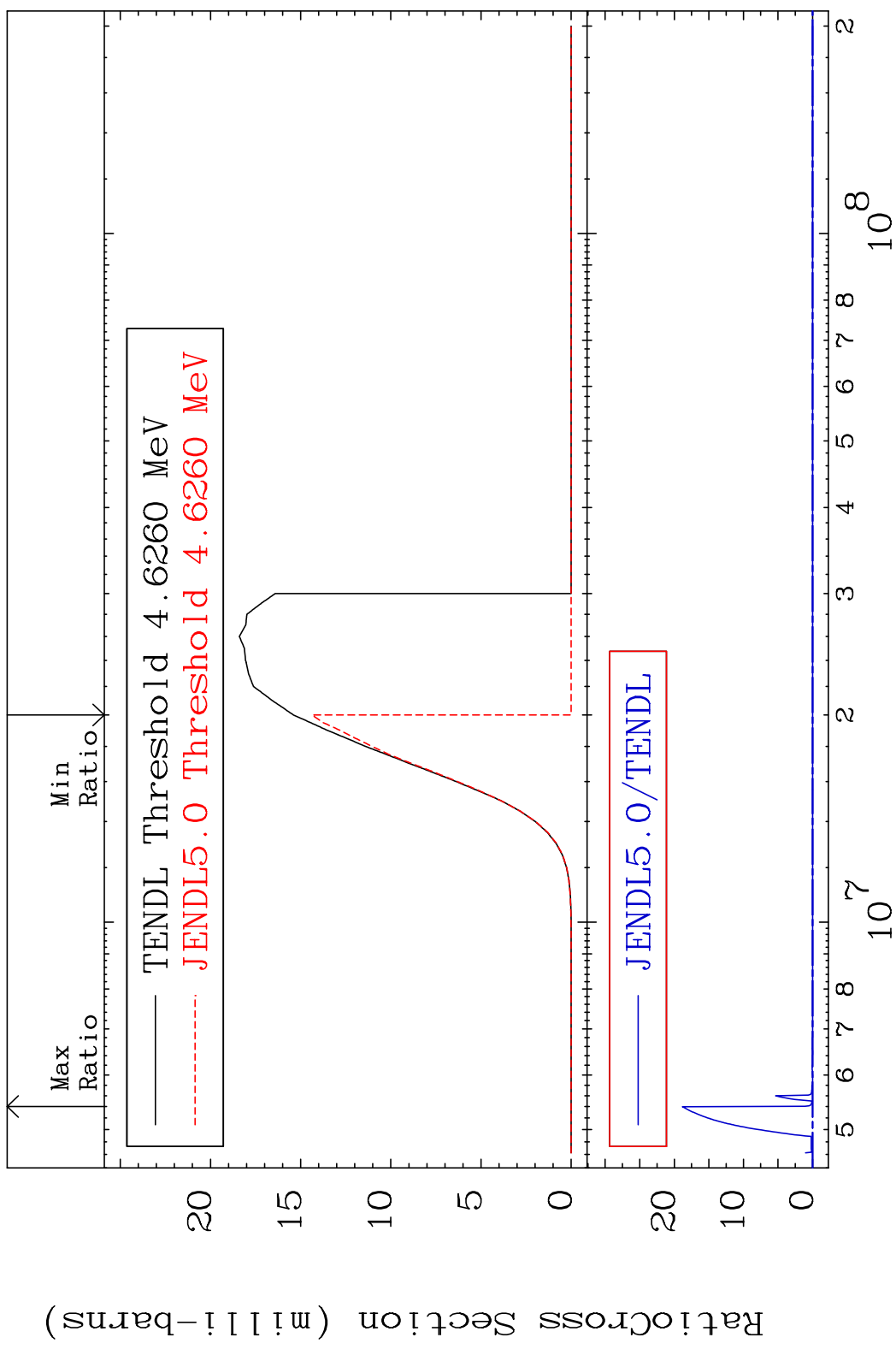
56-Ba-138

MAT 5649

(n,p)

56-Ba-138

Cross Section -100.0 To 9999. %

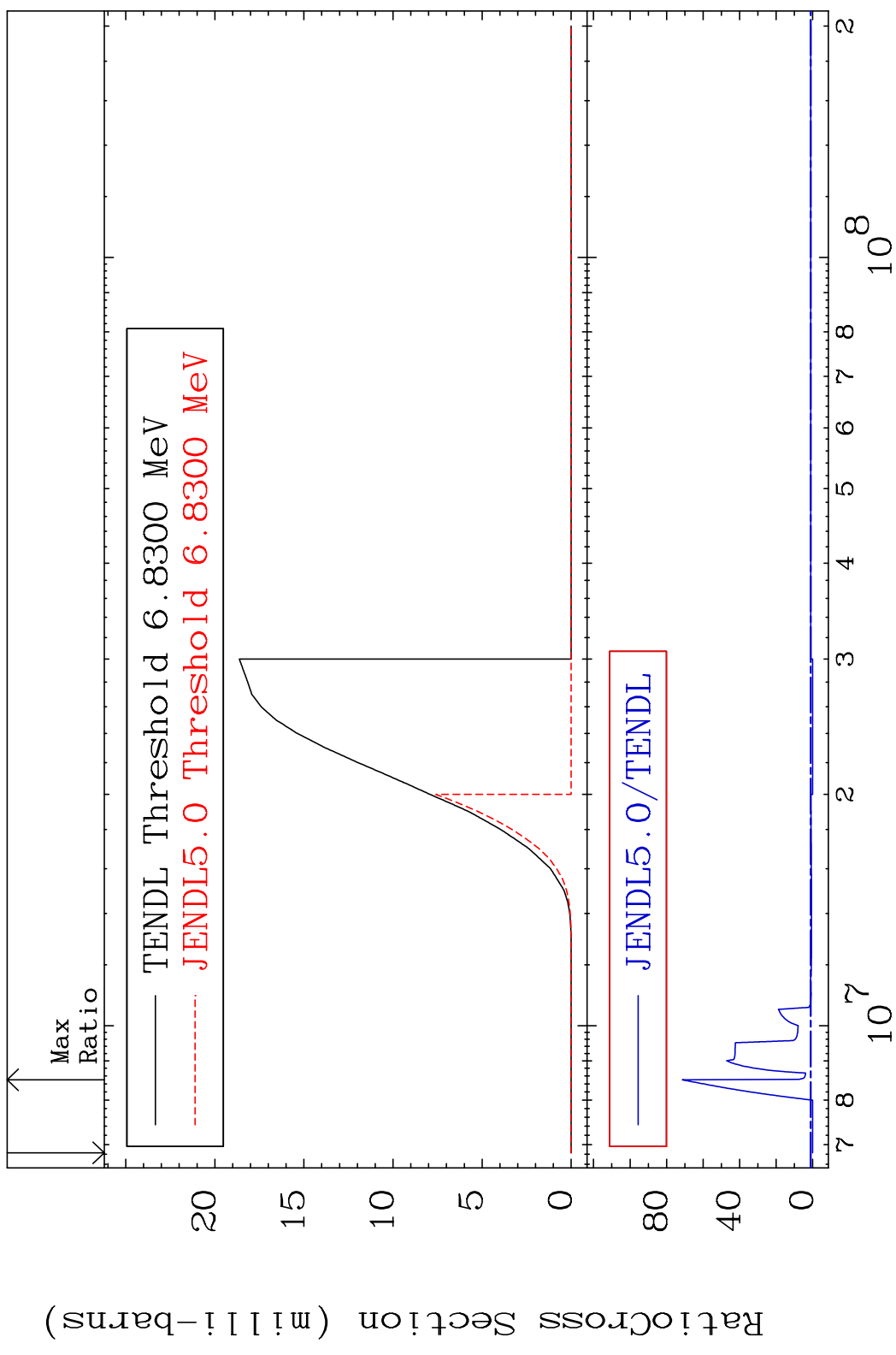


MAT 5649

(n,d)

56-Ba-138

Cross Section -100.0 To 7034. %

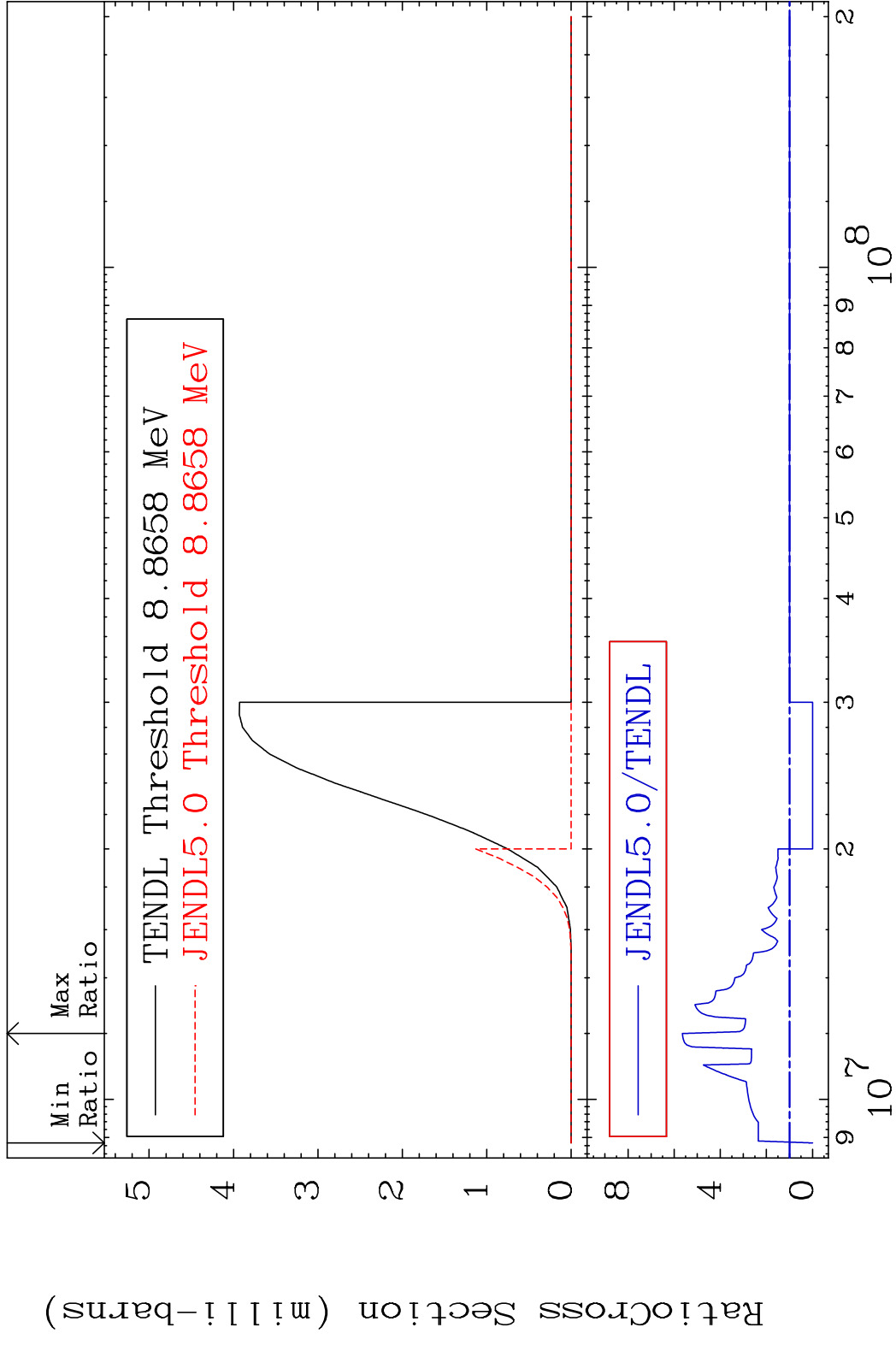


35

Incident Energy (eV)

56-Ba-138

MAT 5649 (n, t) 56-Ba-138
 Cross Section -100.0 To 464.4 %

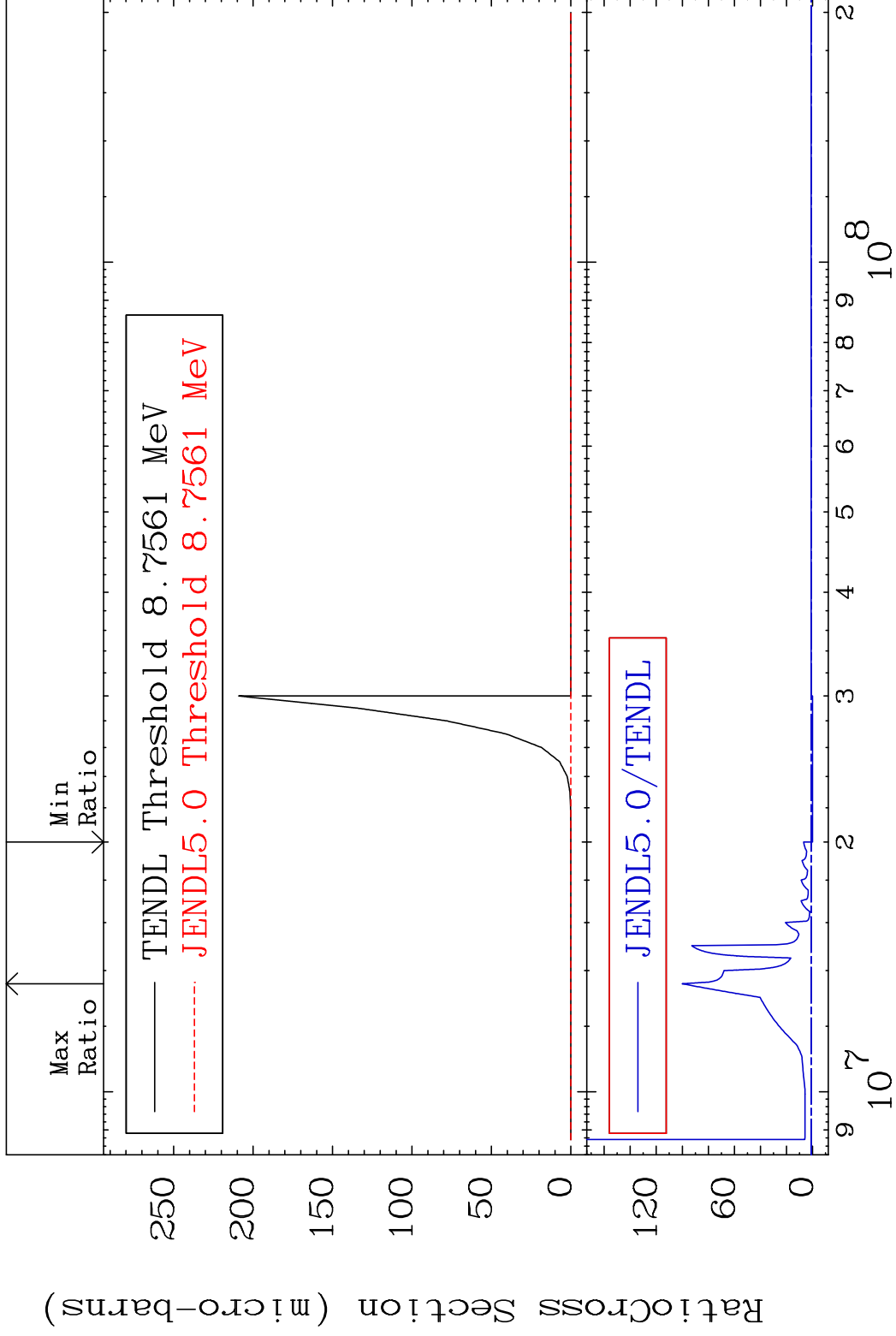


MAT 5649

(n, He-3)

56-Ba-138

Cross Section -100.0 To 9912. %



37

Incident Energy (eV)

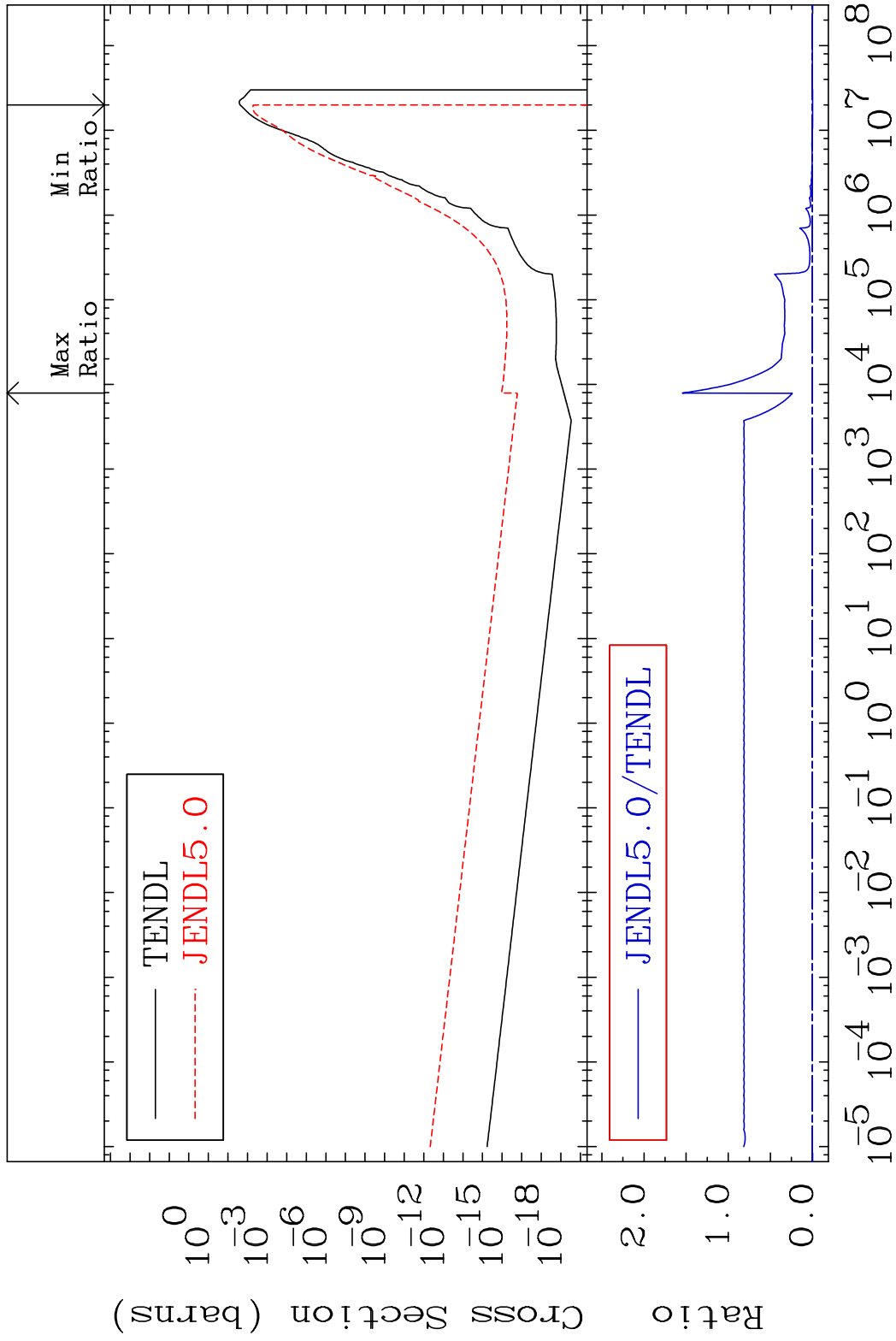
56-Ba-138

MAT 5649

(n, α)

56-Ba-138

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

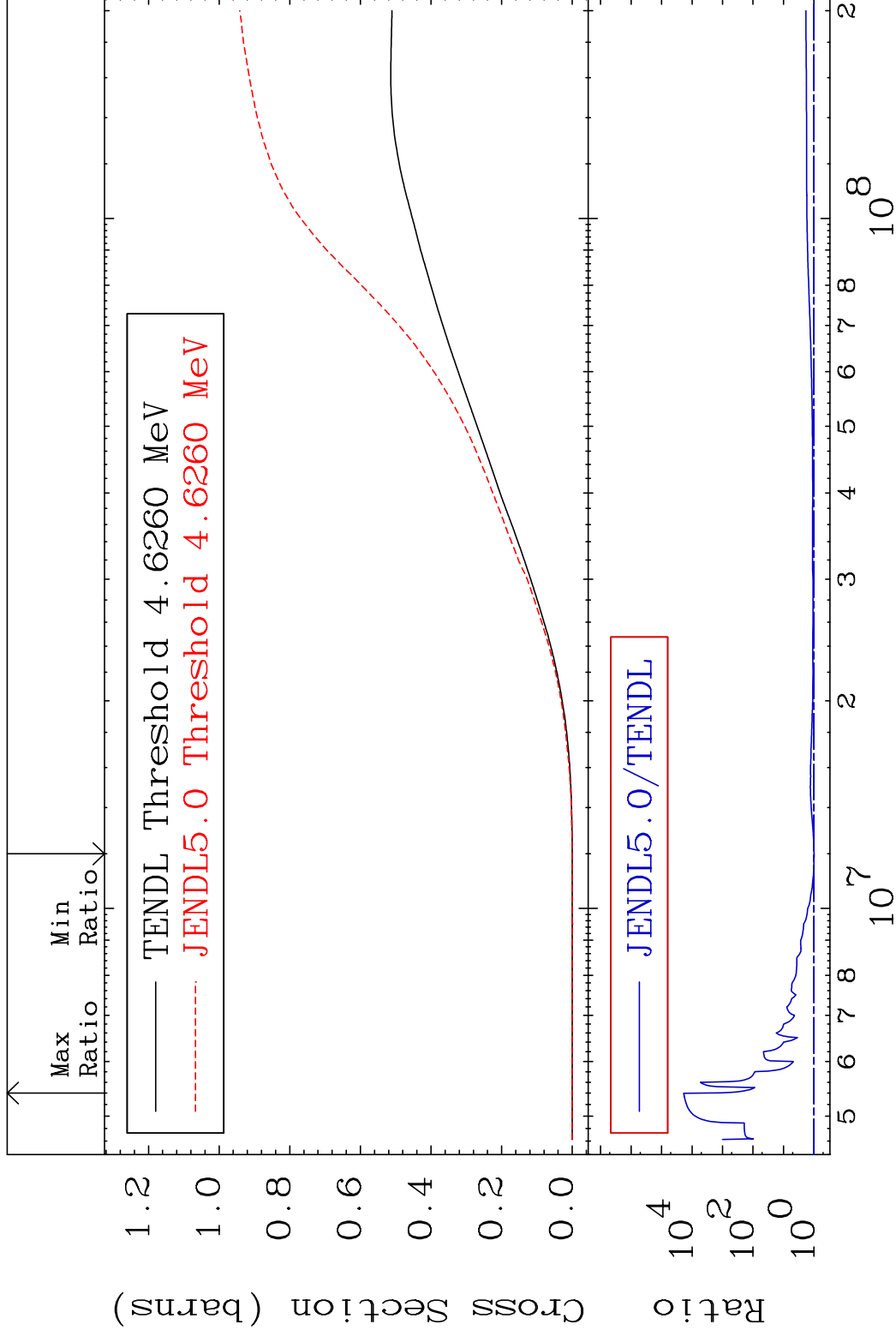
56-Ba-138

MAT 5649

Hydrogen Production

56-Ba-138

Cross Section -1.103 To 9999. %



39

Incident Energy (eV)

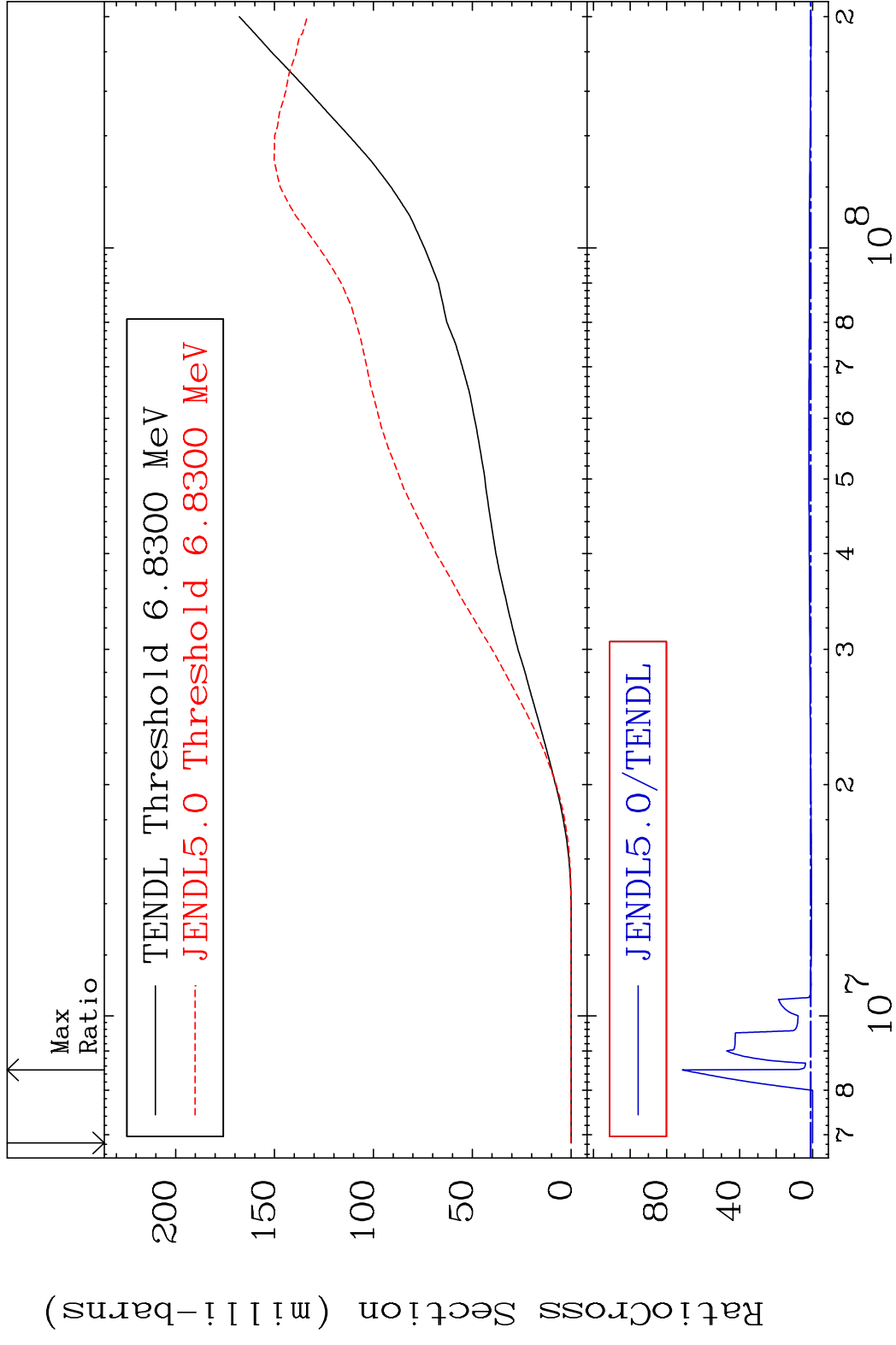
56-Ba-138

MAT 5649

Deuterium Production

56-Ba-138

Cross Section -100.0 To 7034. %



40

Incident Energy (eV)

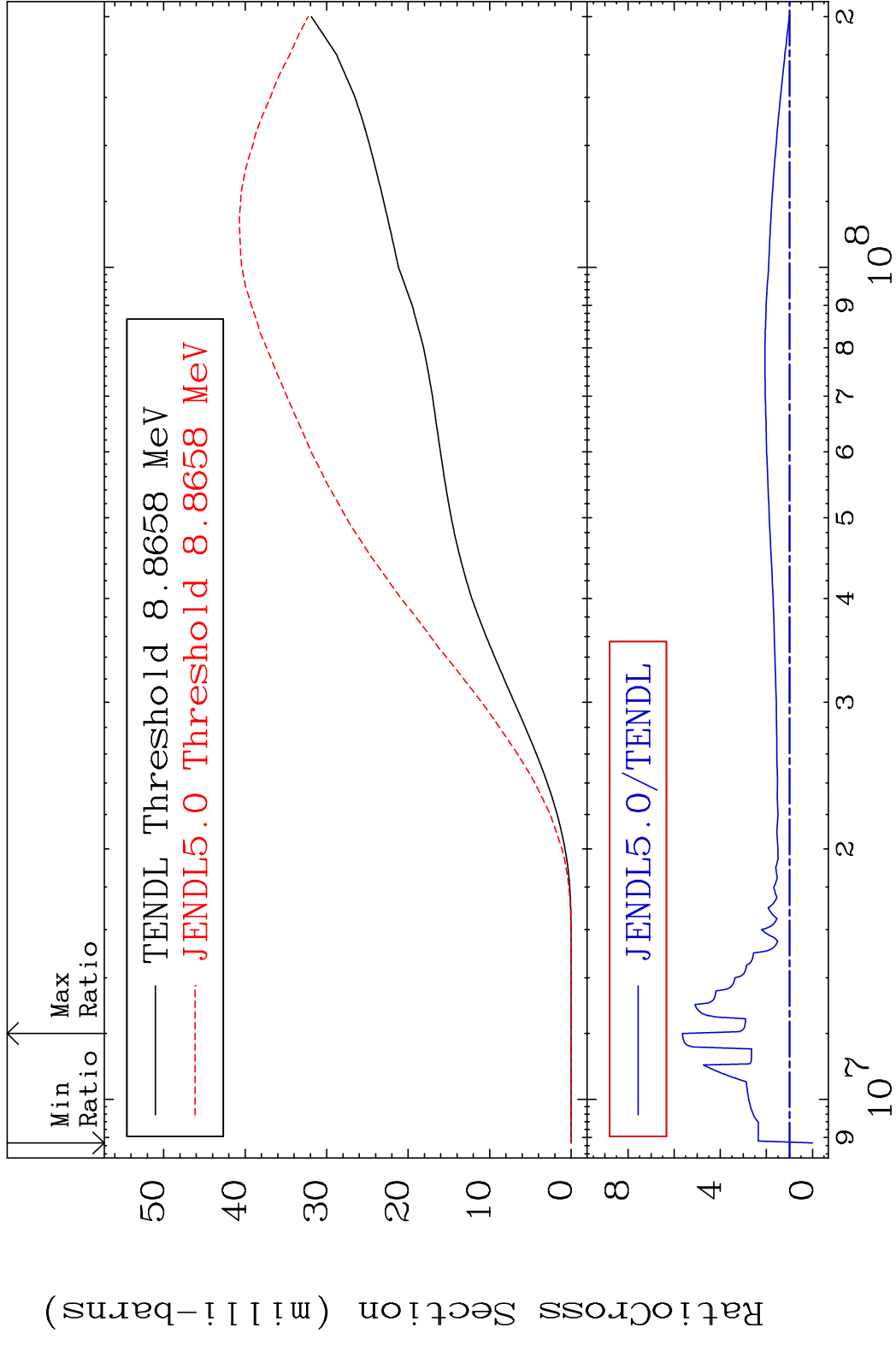
56-Ba-138

MAT 5649

Tritium Production

56-Ba-138

Cross Section -100.0 To 464.4 %



41

Incident Energy (eV)

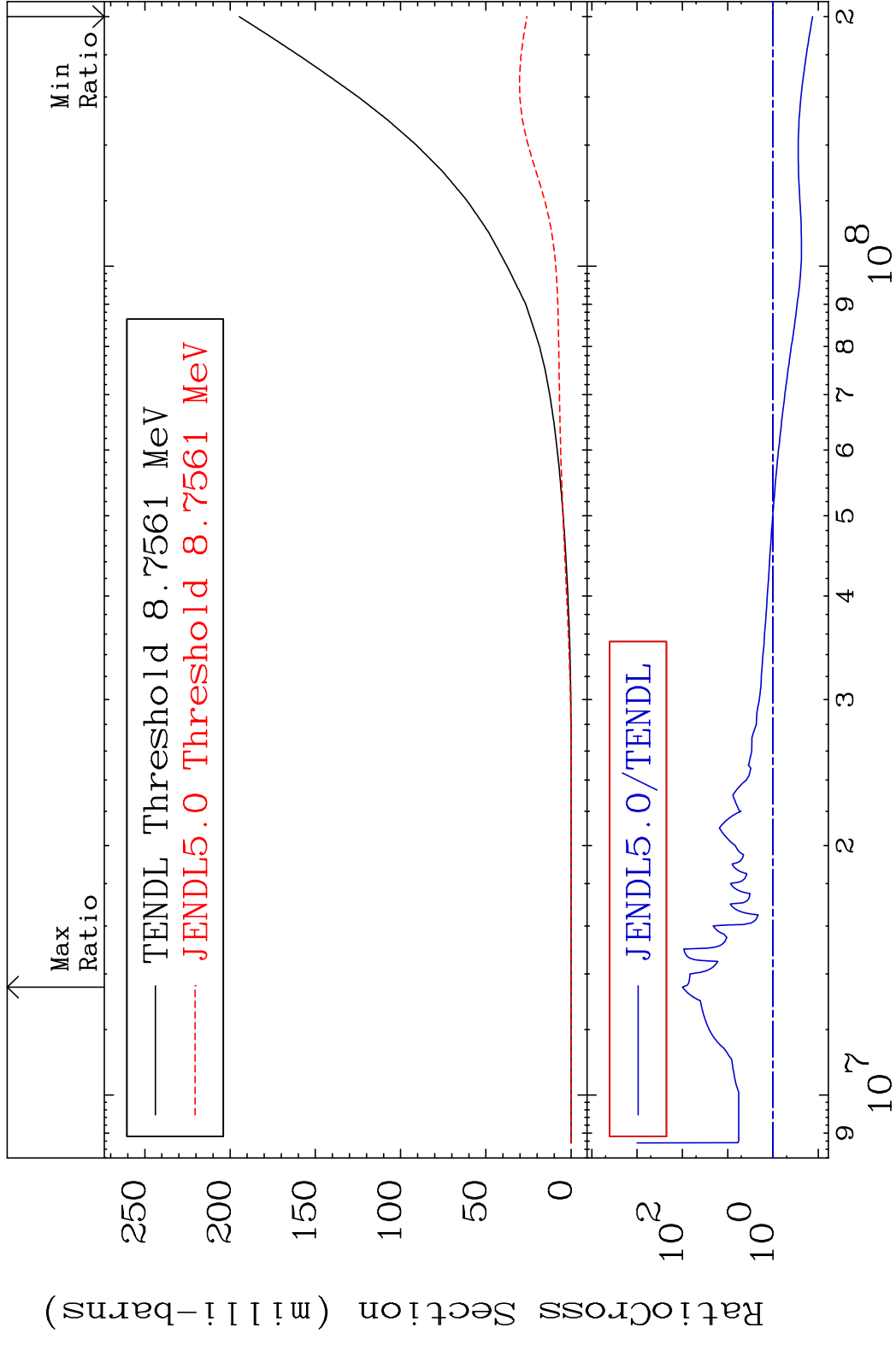
56-Ba-138

MAT 5649

He-3 Production

56-Ba-138

Cross Section -86.65 To 9912. %



42

Incident Energy (eV)

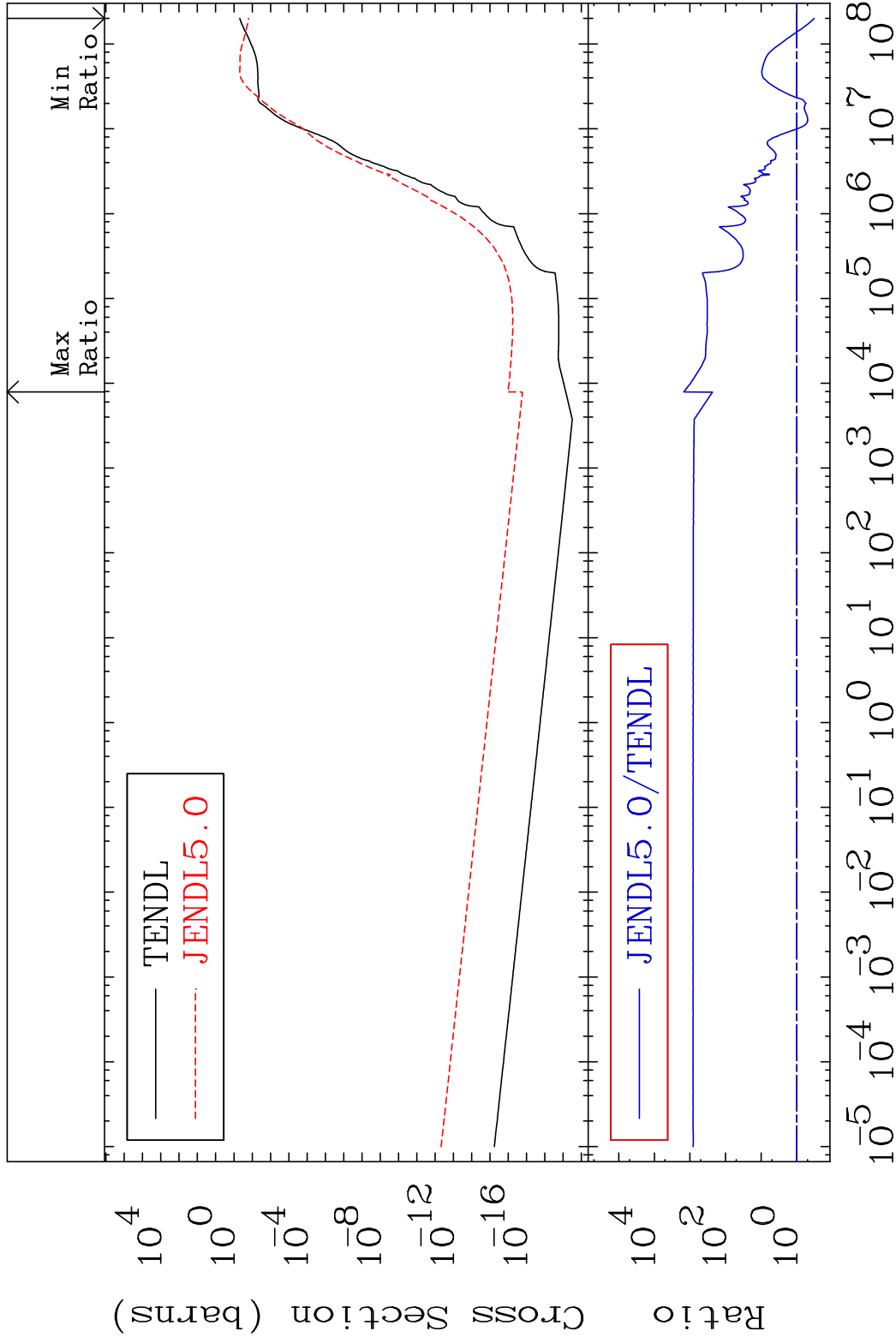
56-Ba-138

MAT 5649

He-4 Production

56-Ba-138

Cross Section -67.41 To 9999. %

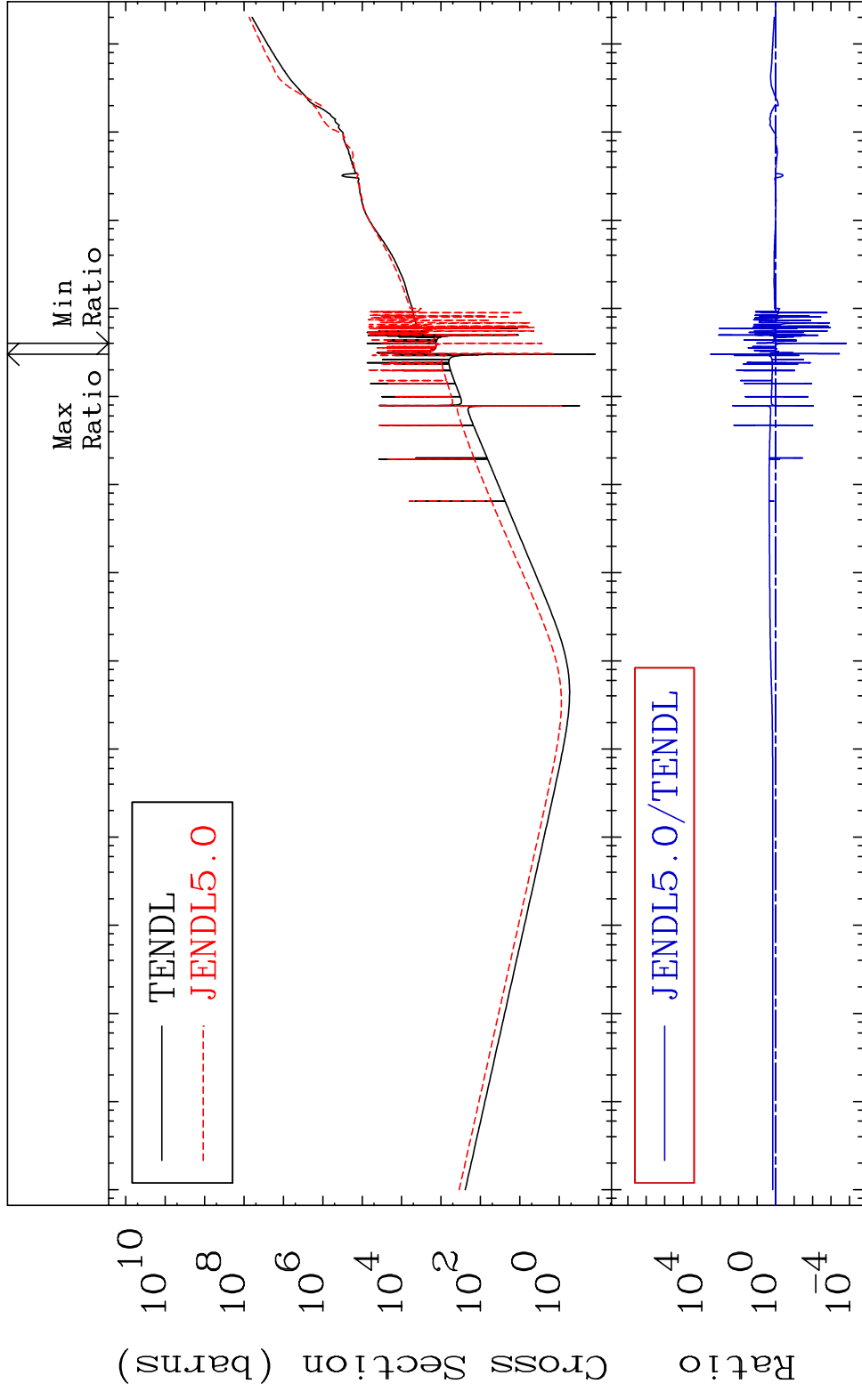


43

Incident Energy (eV)

56-Ba-138

MAT 5649 Kerma total (eV-barns) 56-Ba-138
 Cross Section -99.99 To 9999. %

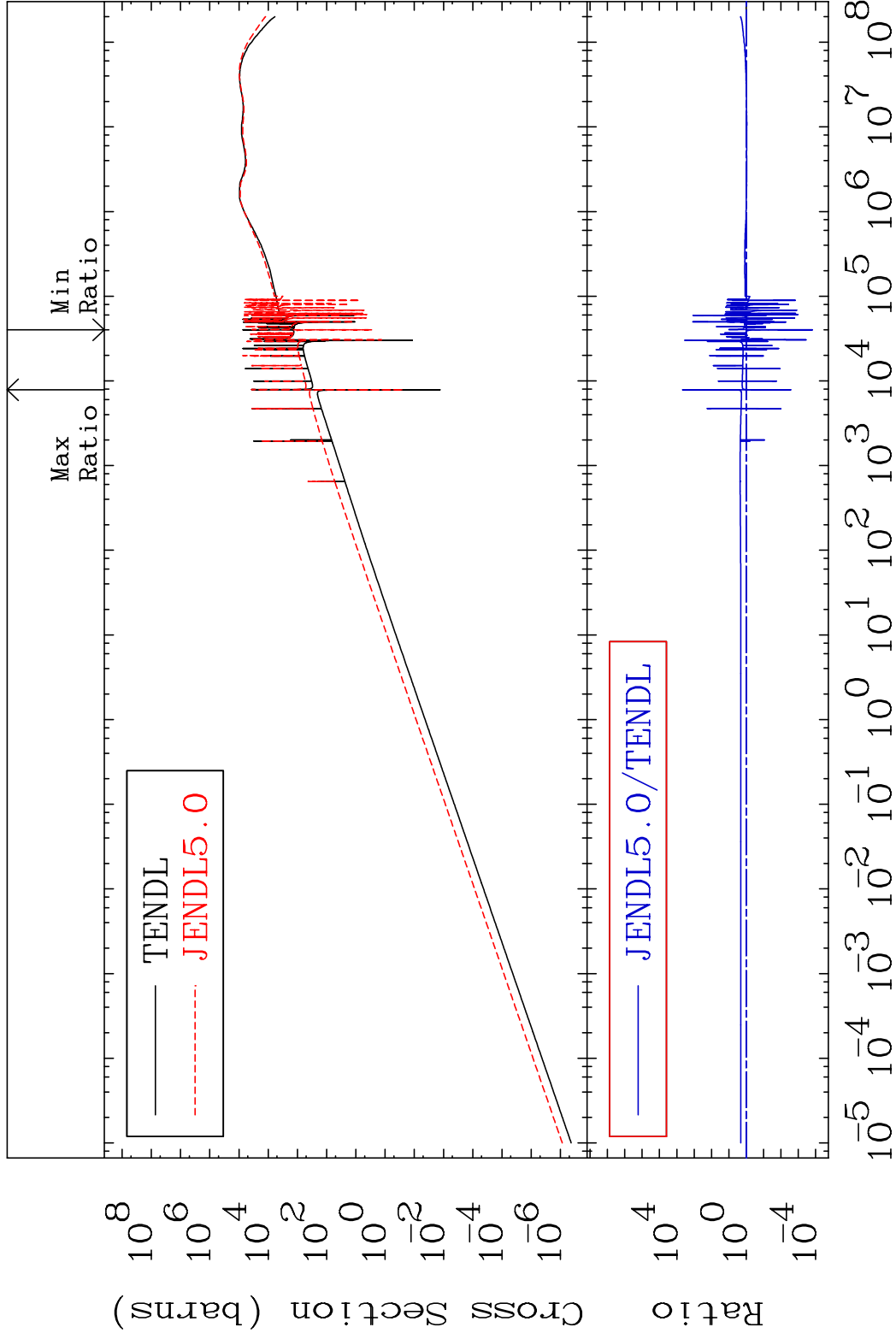


44 Incident Energy (eV) 56-Ba-138

MAT 5649

Kerma elastic
Cross Section

56-Ba-138
-99.99 To 9999. %

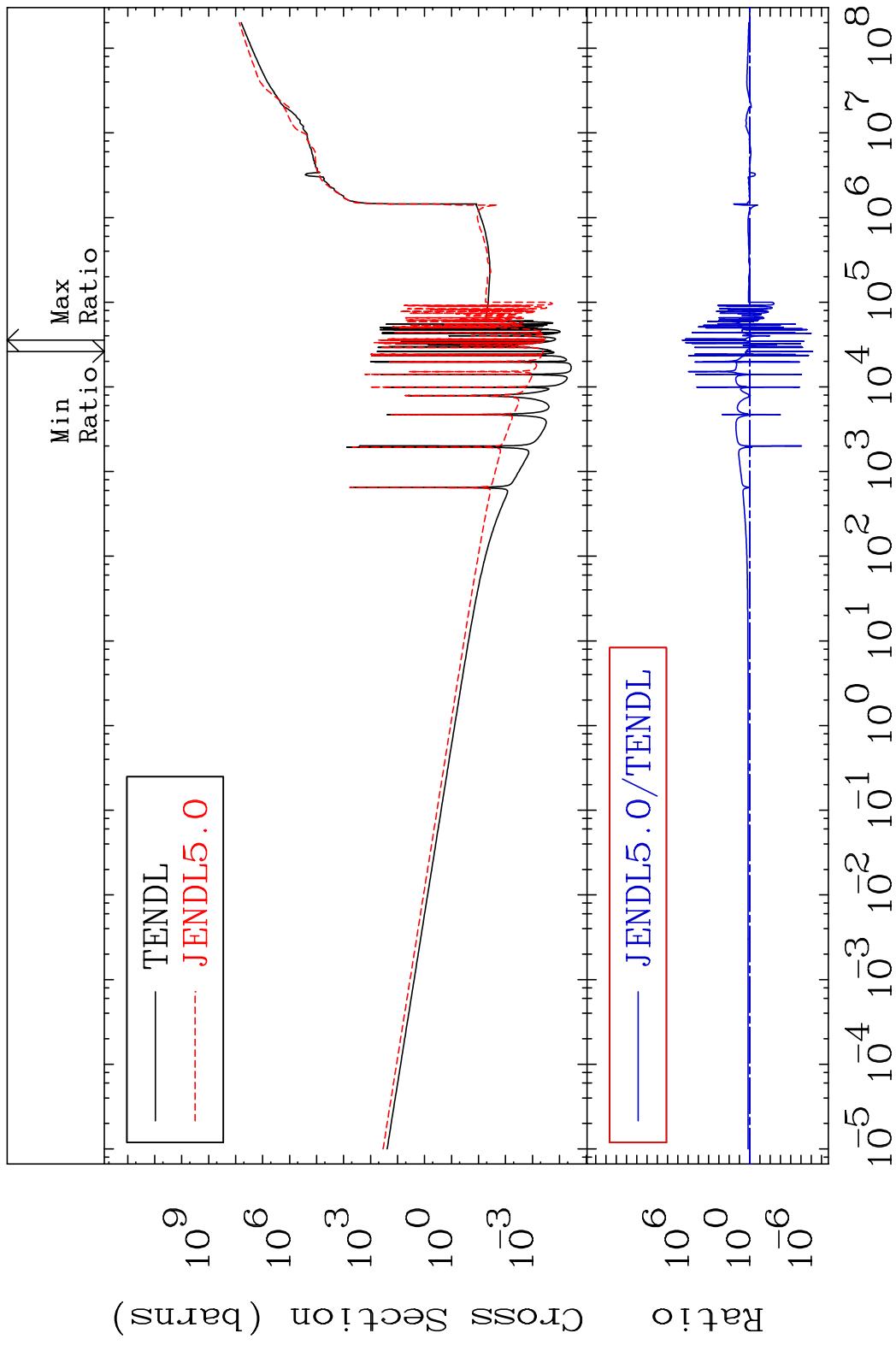


45

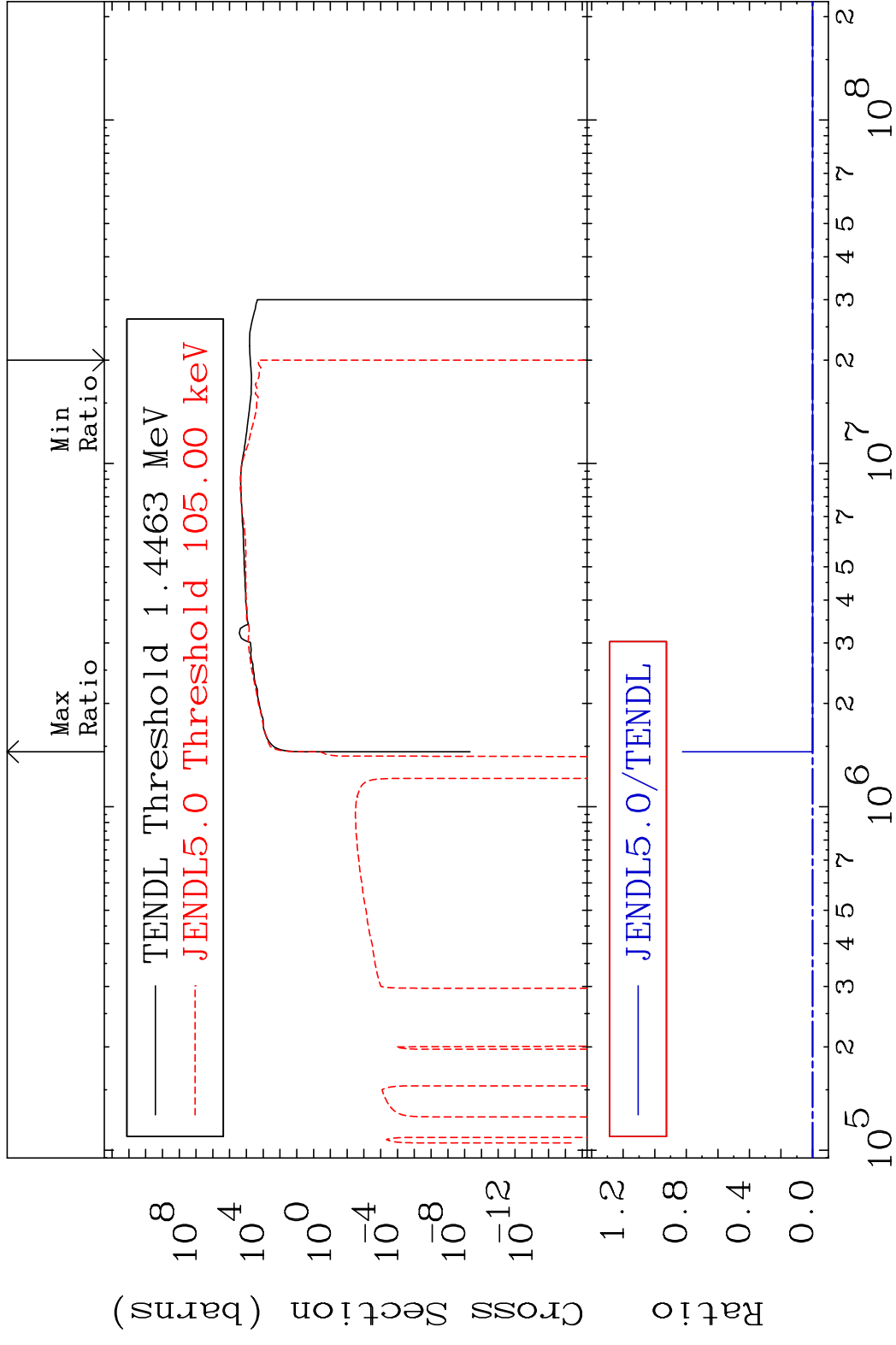
Incident Energy (eV)

56-Ba-138

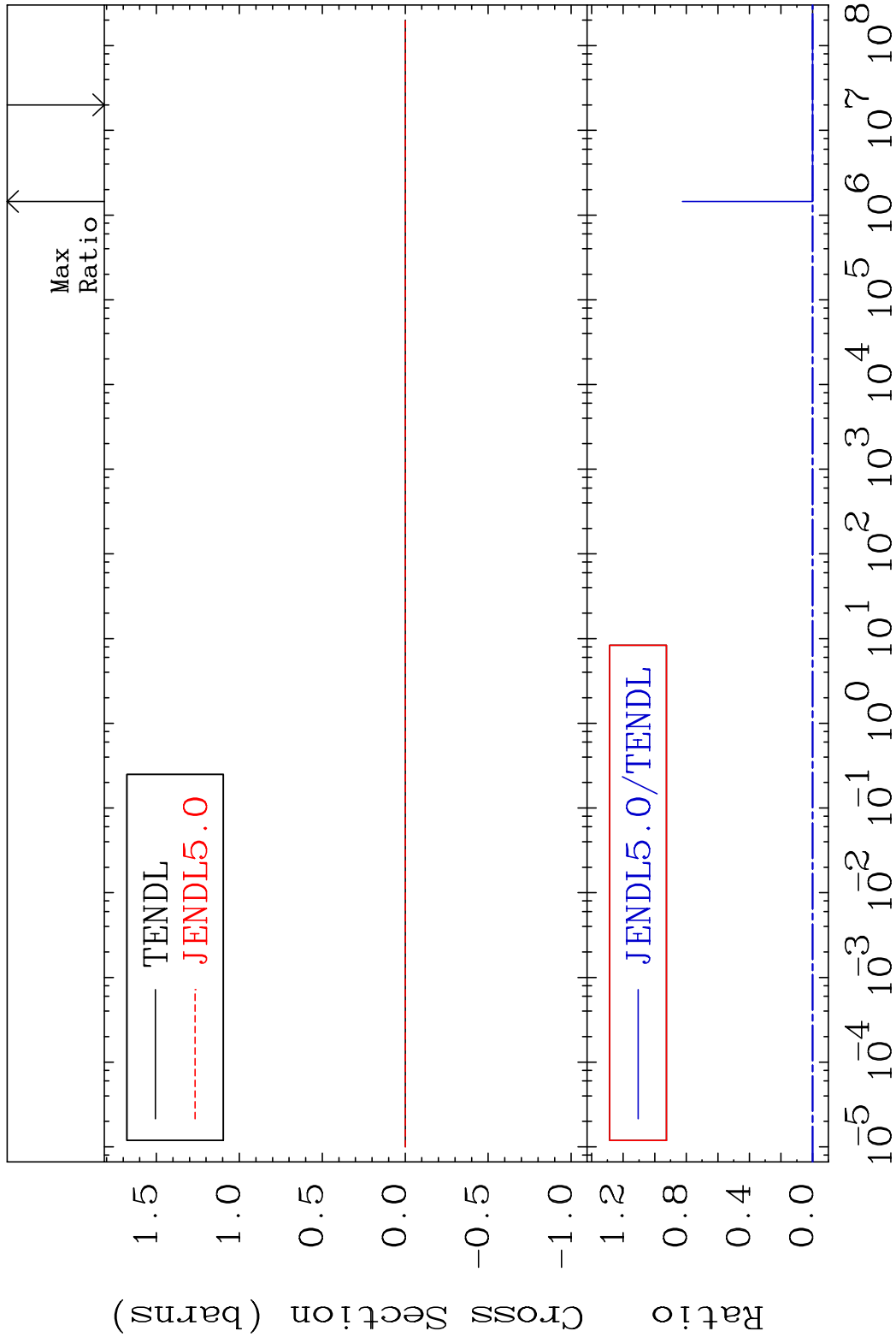
MAT 5649 Kerma non-elastic (all but mt2) 56-Ba-138
 Cross Section -100.0 To 9999. %



MAT 5649 Kerma inelastic (mt51-91) 56-Ba-138
 Cross Section -100.0 To 9999. %



MAT 5649 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-138
 Cross Section -100.0 To 9999. %

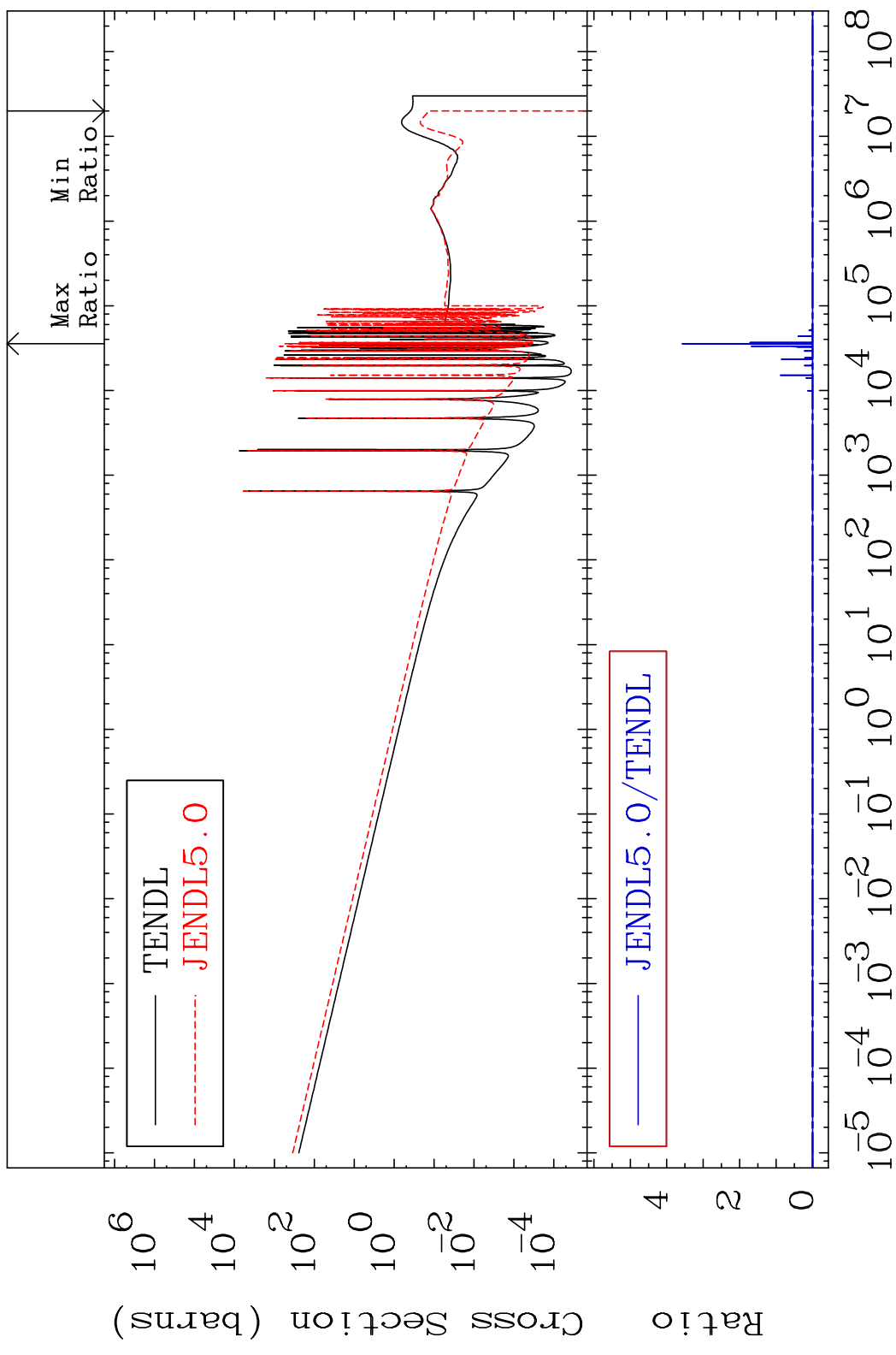


MAT 5649

Kerma capture (mt102)

56-Ba-138

Cross Section -100.0 To 9999. %

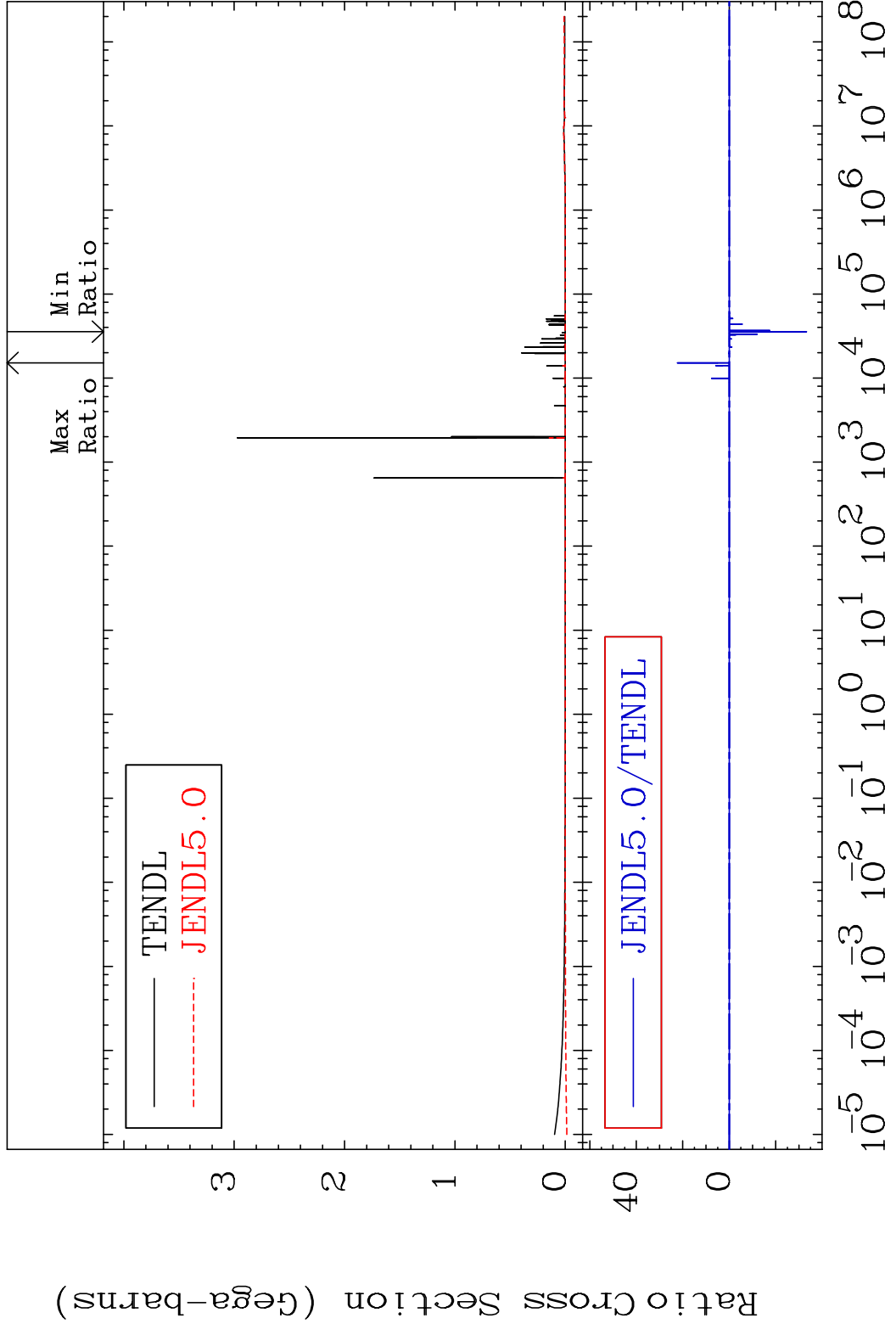


49

Incident Energy (eV)

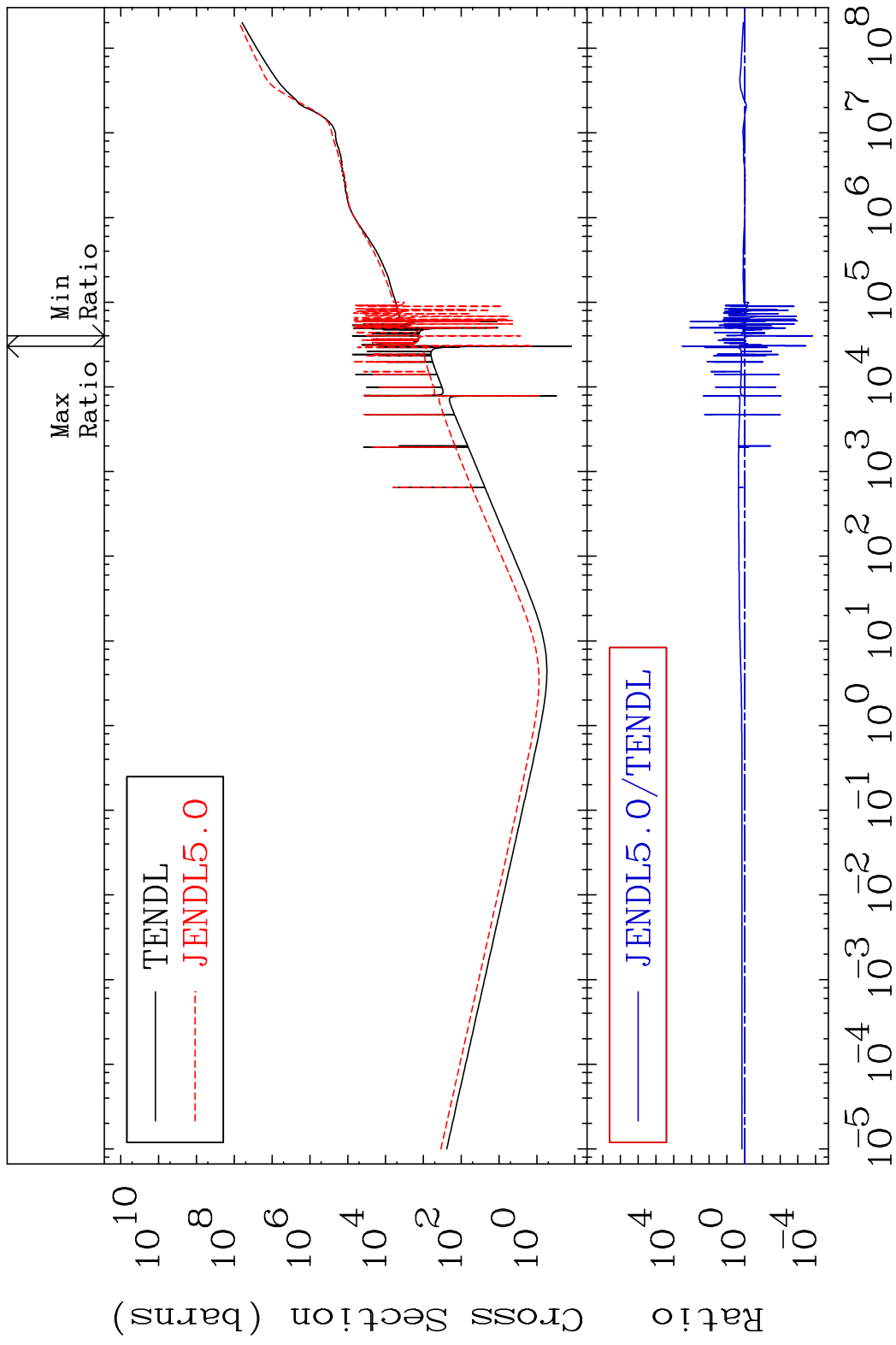
56-Ba-138

MAT 5649 Total photon (eV-barns) 56-Ba-138
Cross Section -9999. To 9999. %



50 Incident Energy (eV) 56-Ba-138

MAT 5649 Total kinematic kerma (high limit) 56-Ba-138
 Cross Section -99.99 To 9999. %

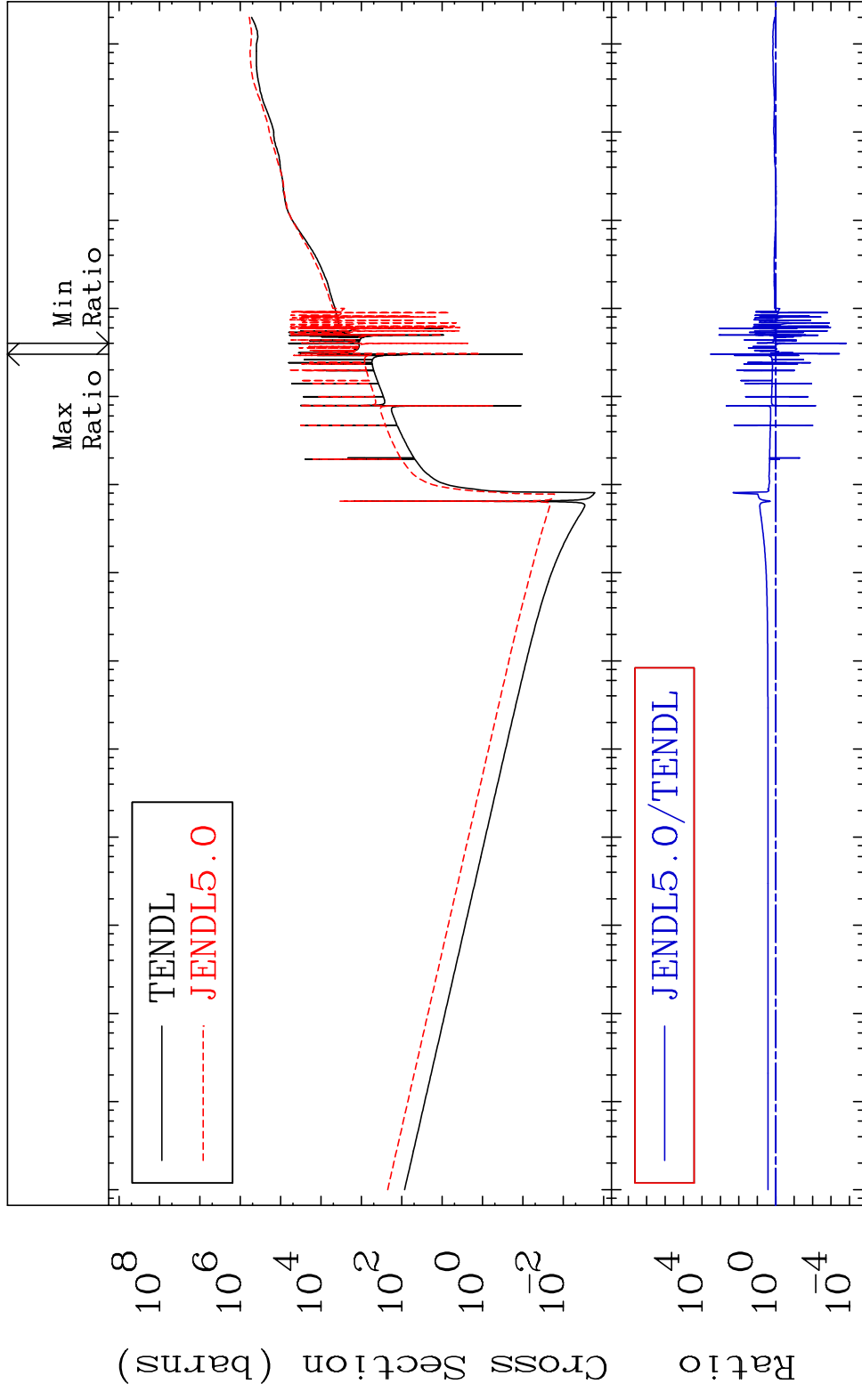


MAT 5649

Dpa total (eV-barns)

56-Ba-138

Cross Section -99.99 To 9999. %



52

Incident Energy (eV)

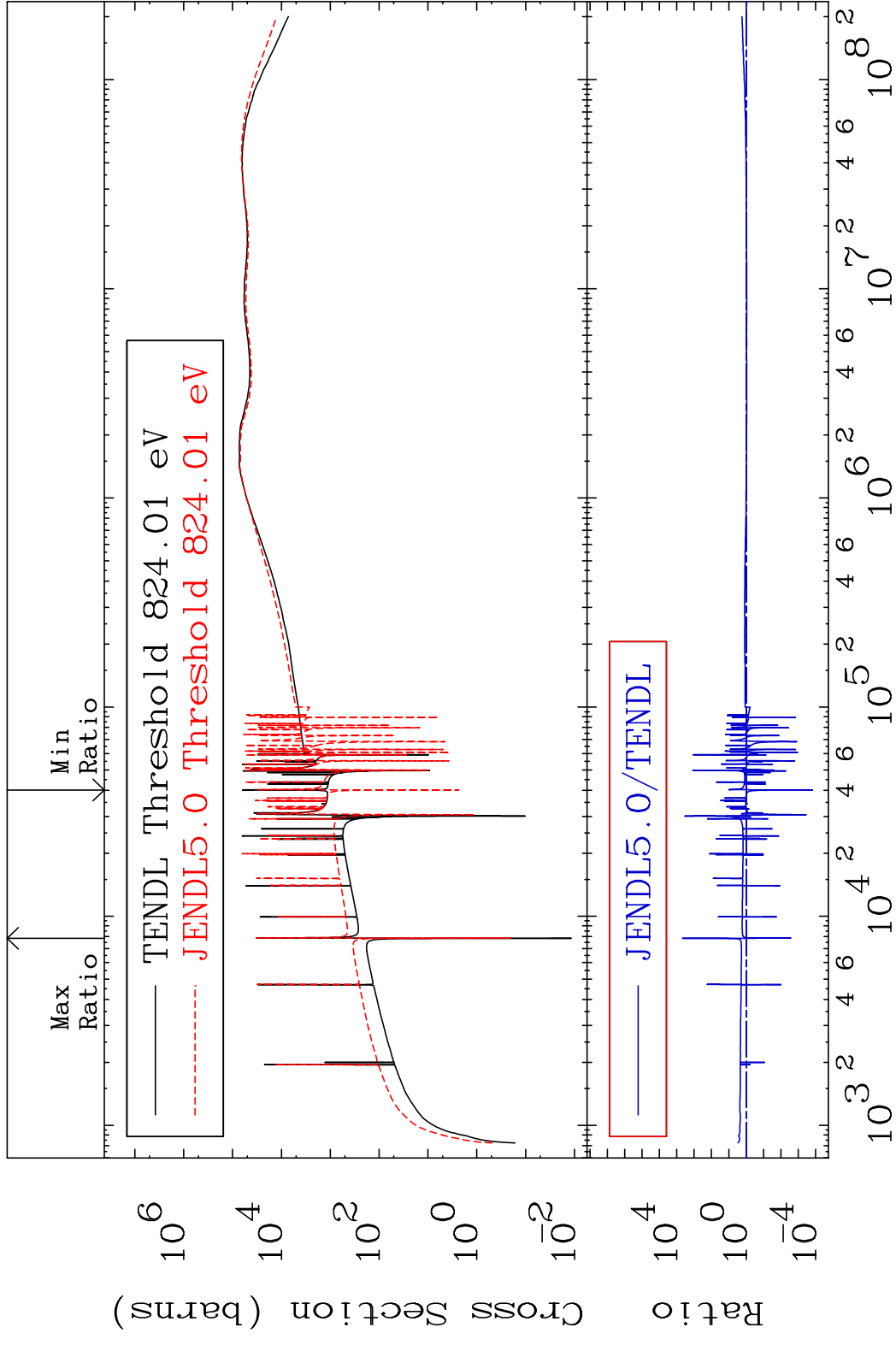
56-Ba-138

MAT 5649

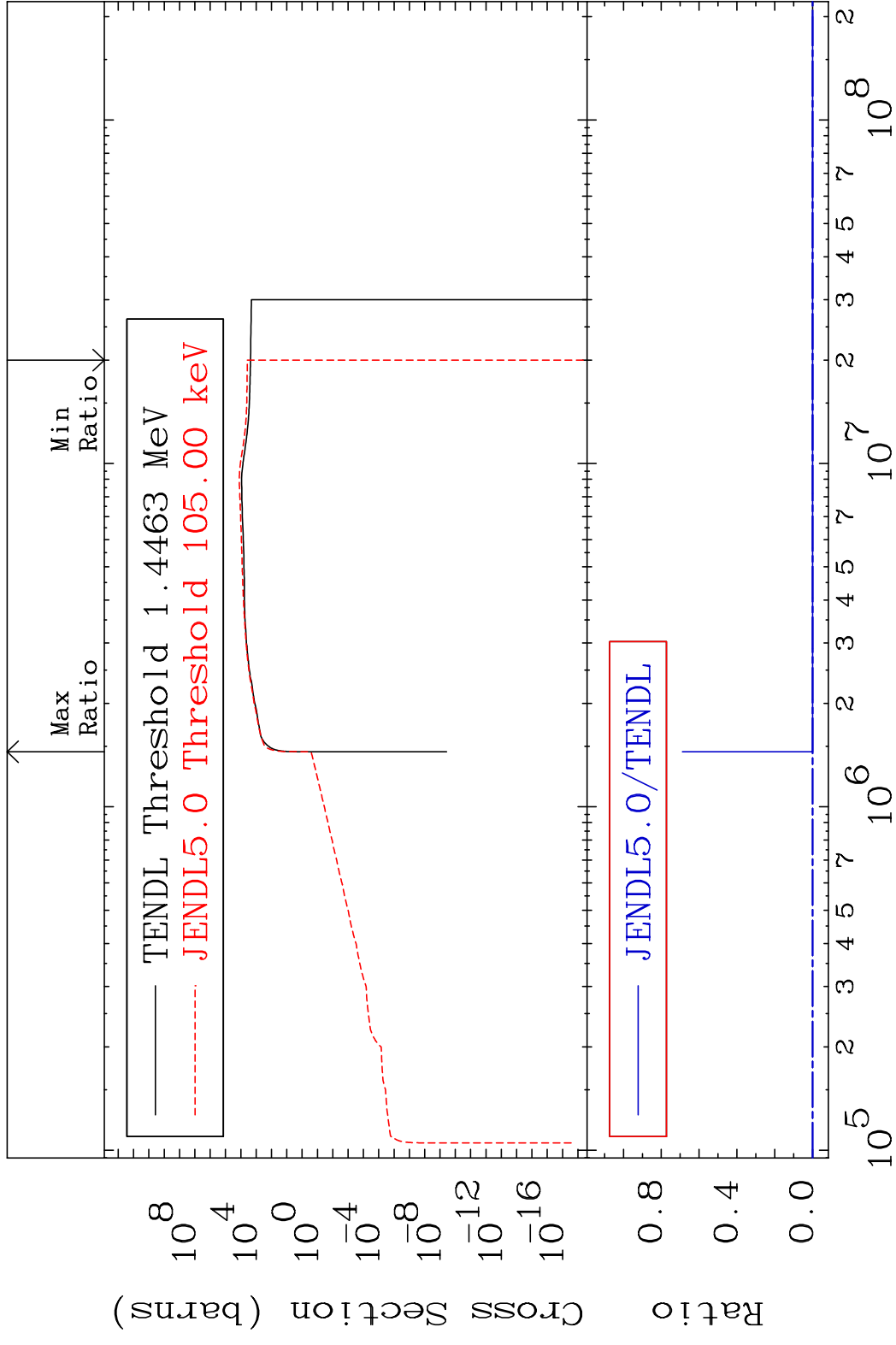
Dpa elastic (mt2)

56-Ba-138

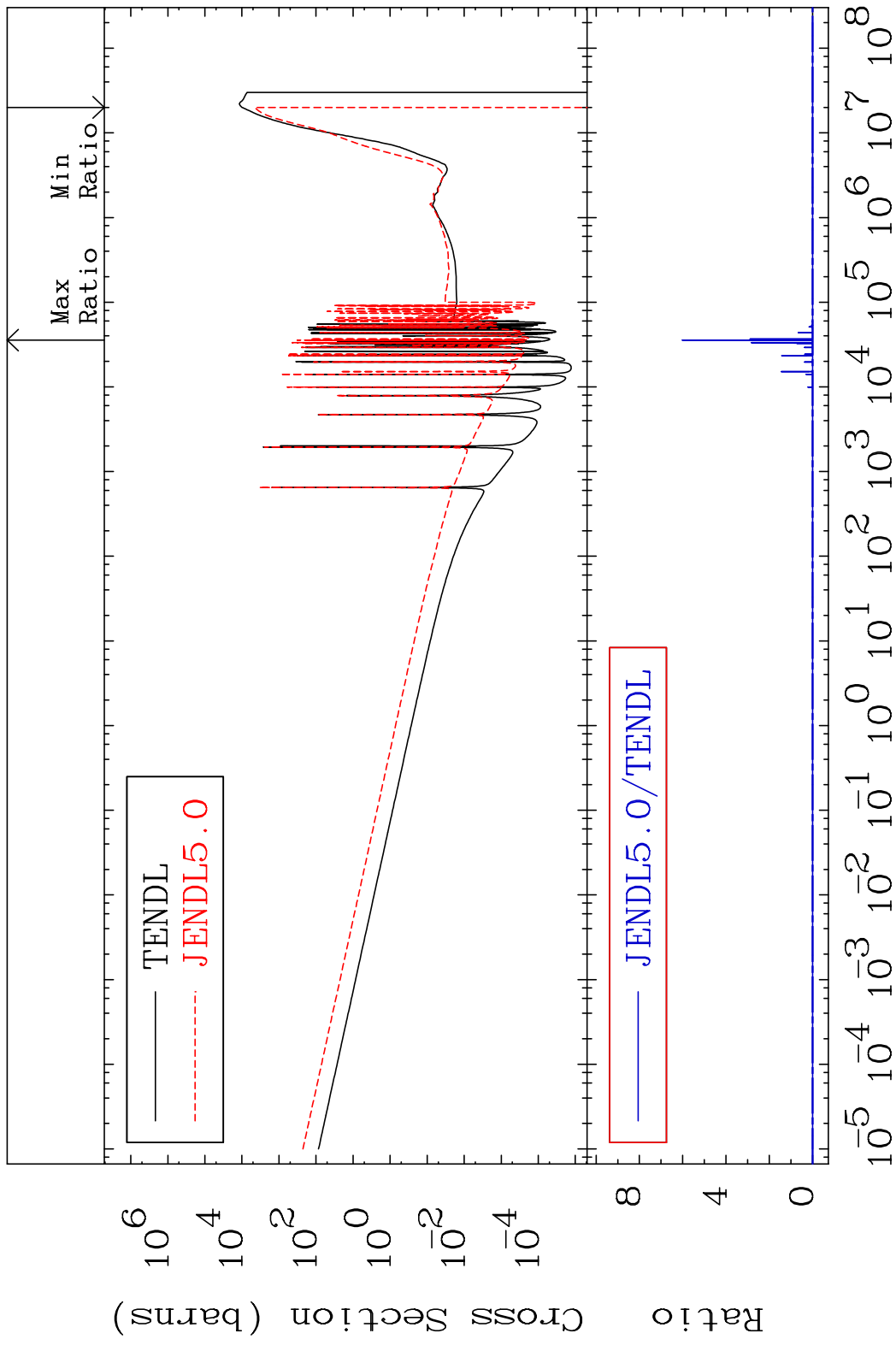
Cross Section -99.99 To 9999. %



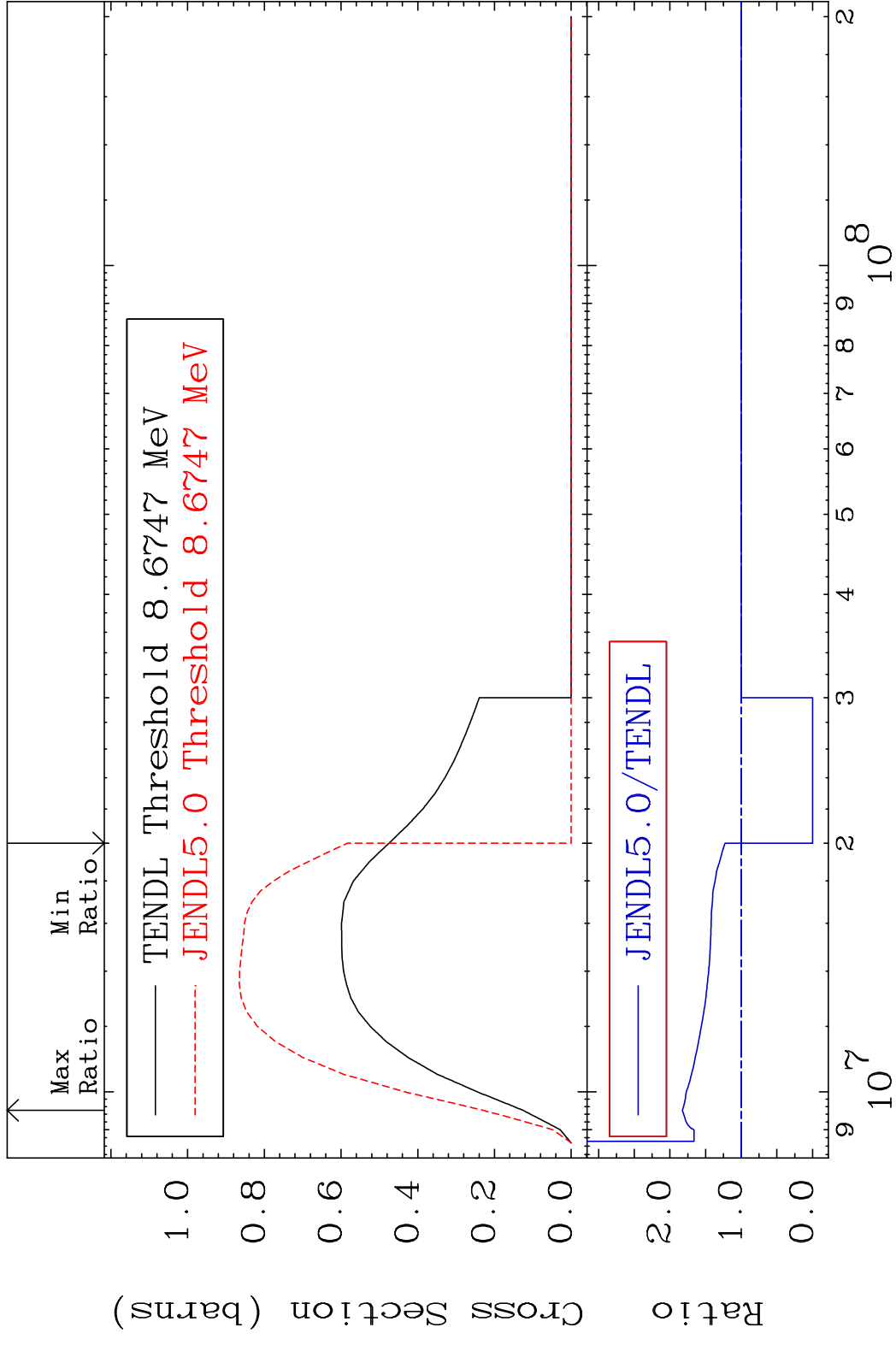
MAT 5649 Dpa inelastic (mt51-91) 56-Ba-138
 Cross Section -100.0 To 9999. %



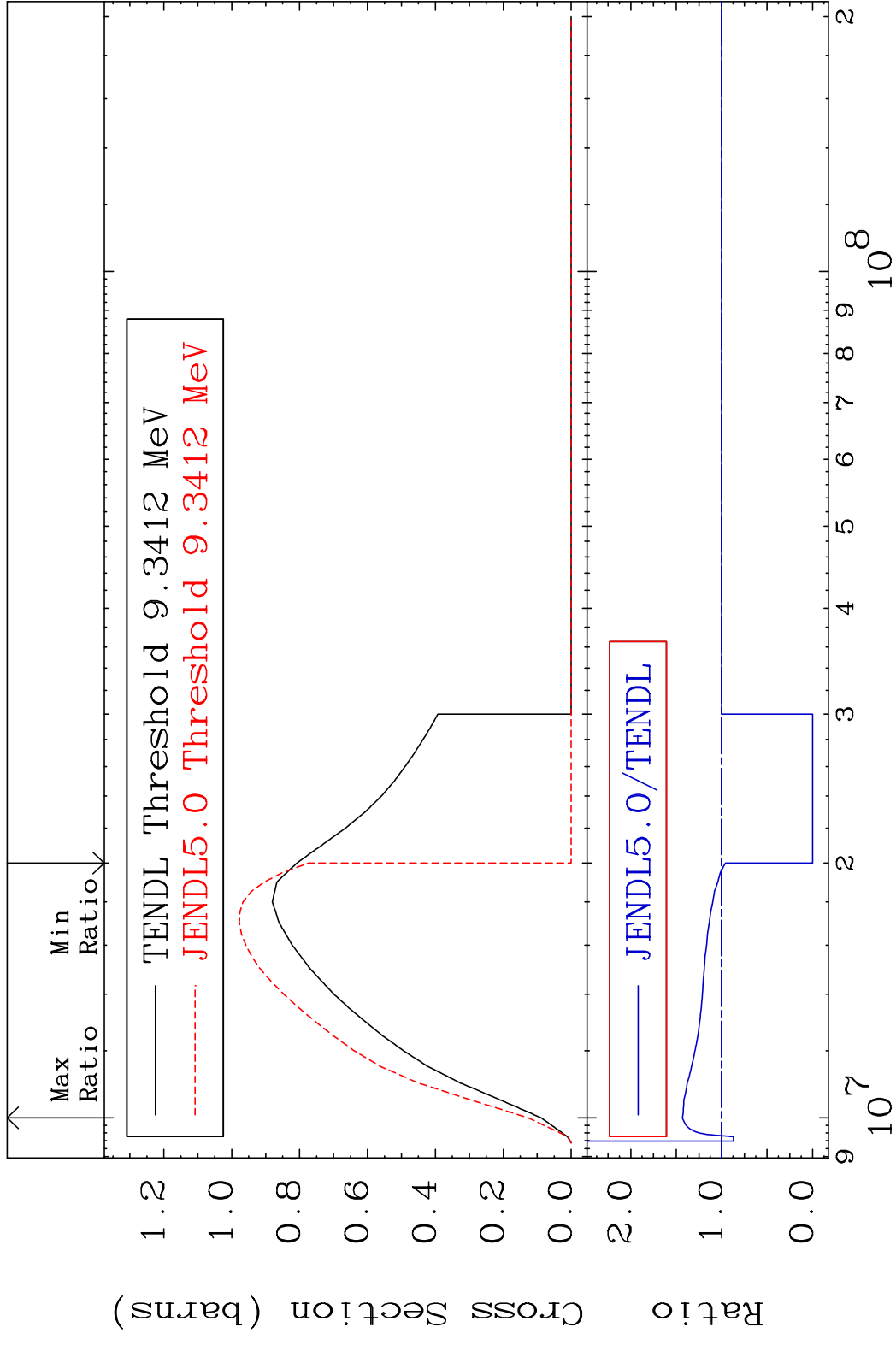
MAT 5649 Dpa disappearance (mt102 -120) 56-Ba-138
 Cross Section -100.0 To 9999. %

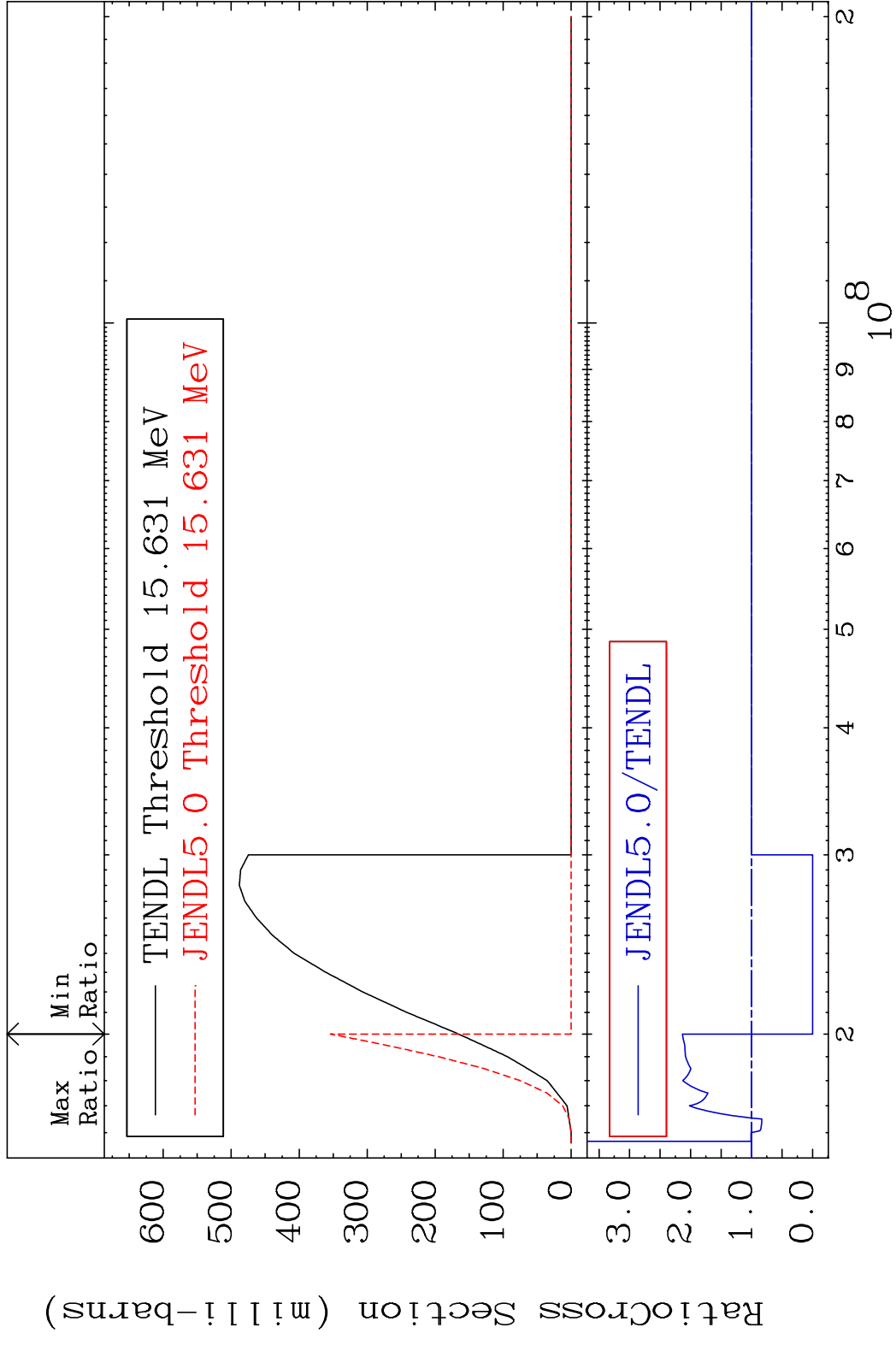


55 Incident Energy (eV) 56-Ba-138

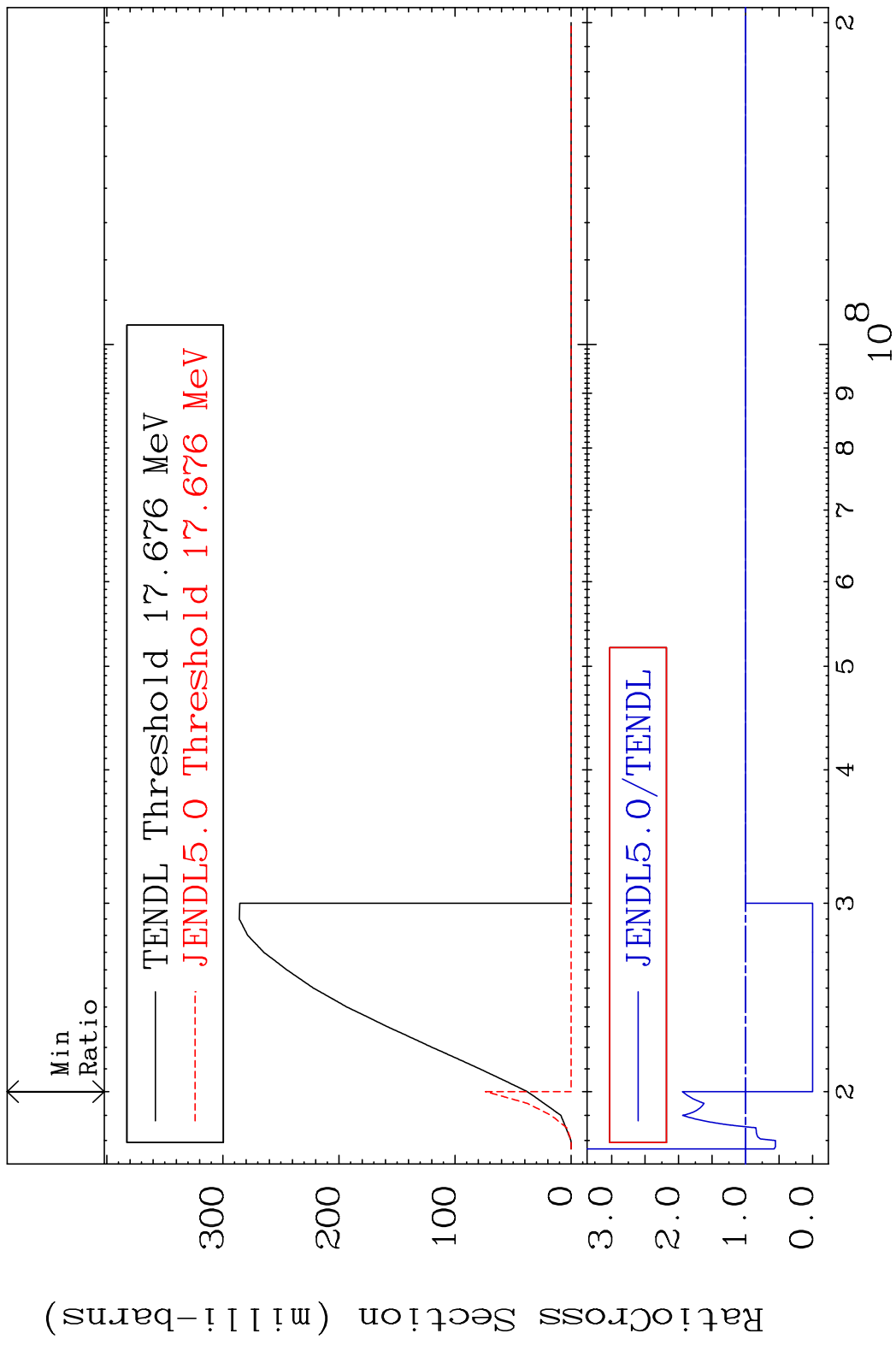


MAT 5649 (n, 2n): 56-Ba-137m2 56-Ba-138
 Radionuclide Production Cross Section Ratio 43.24 %

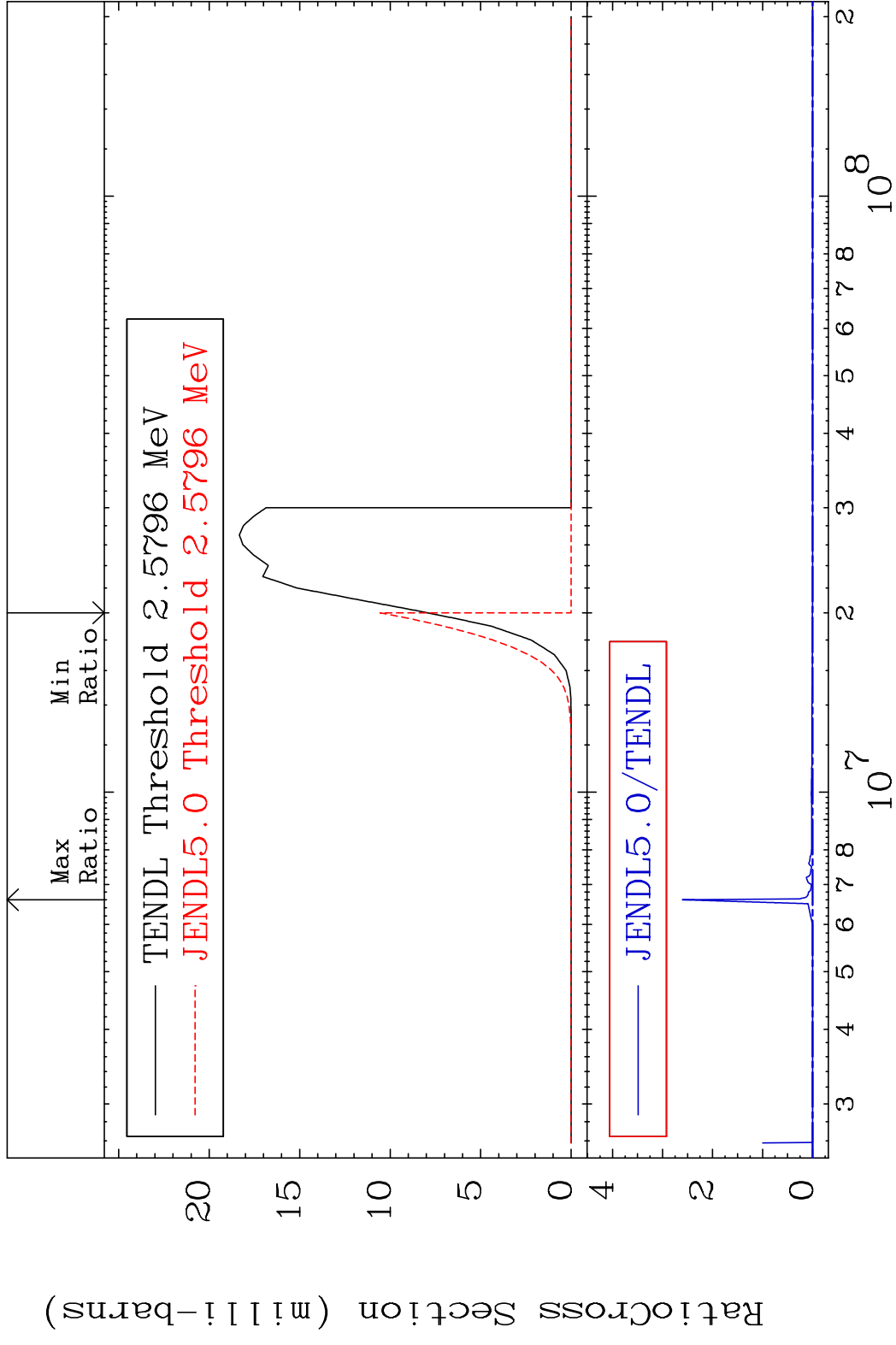


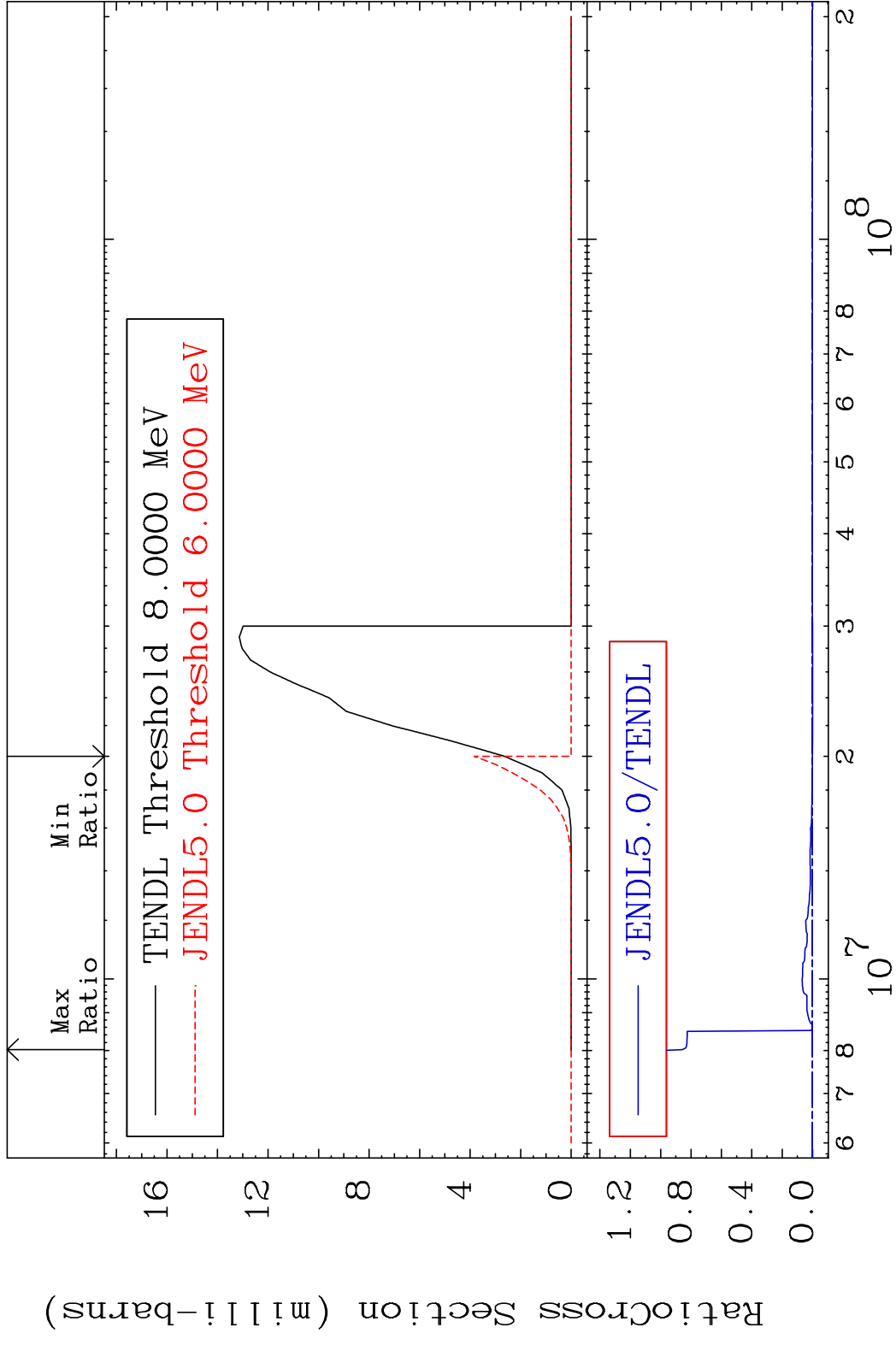


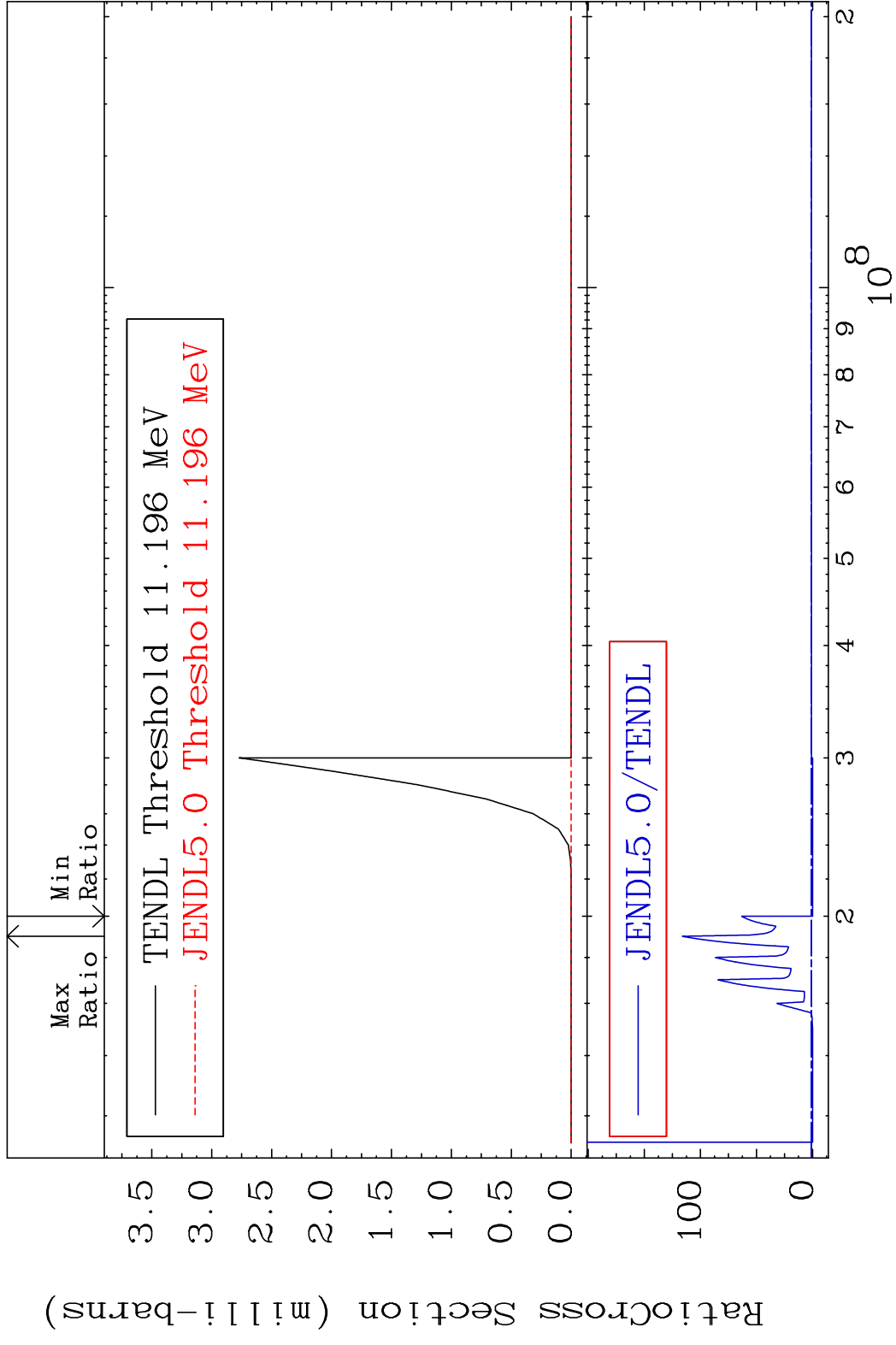
MAT 5649 (n, 3n):56-Ba-136m5 56-Ba-138
 Radionuclide Production Cross Section 180.01 dth 94.37 %



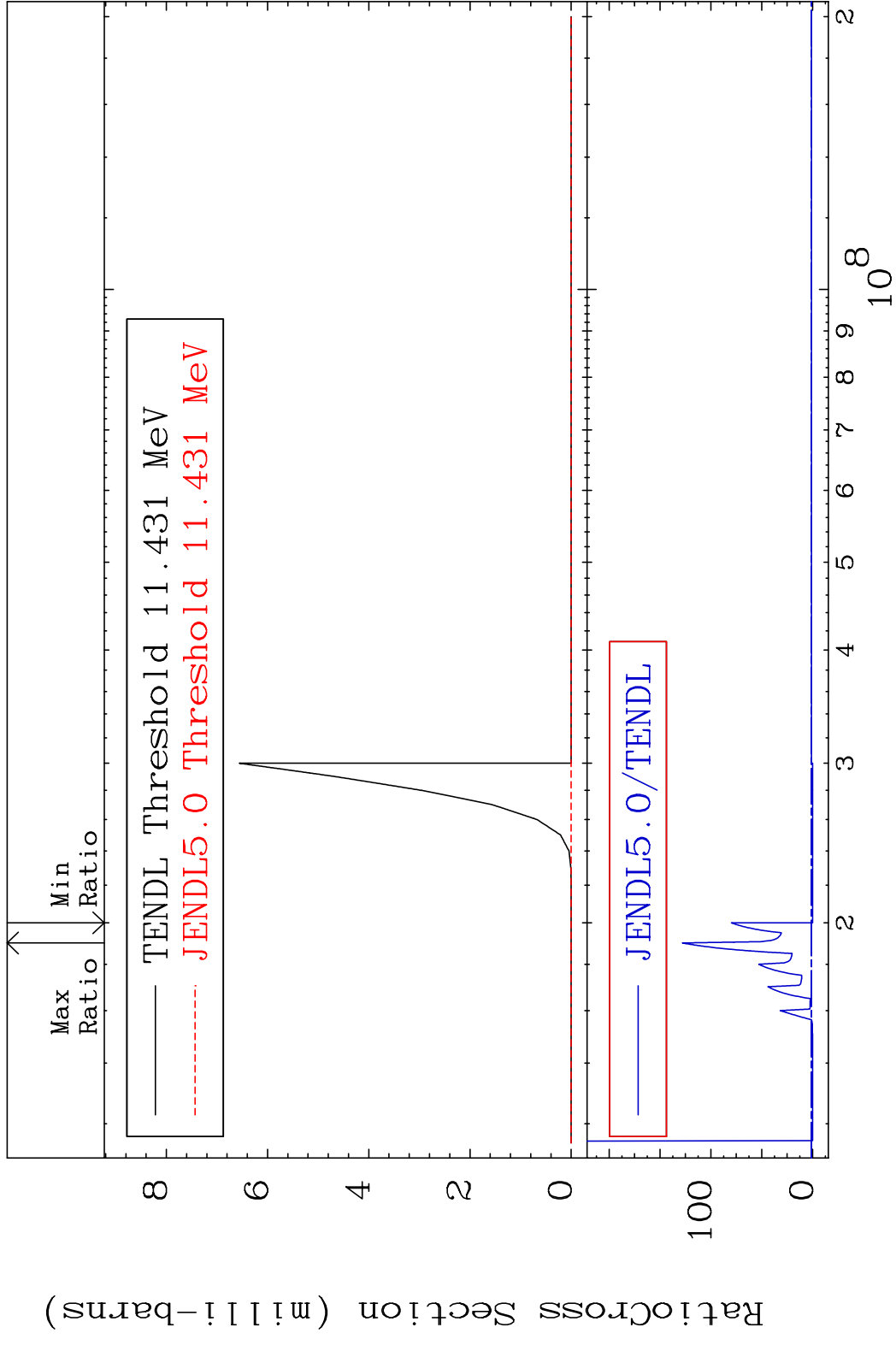
MAT 5649 (n, n') α :54-Xe-134g 56-Ba-138
 Radionuclide Production Cross Section Ratio 9999. %

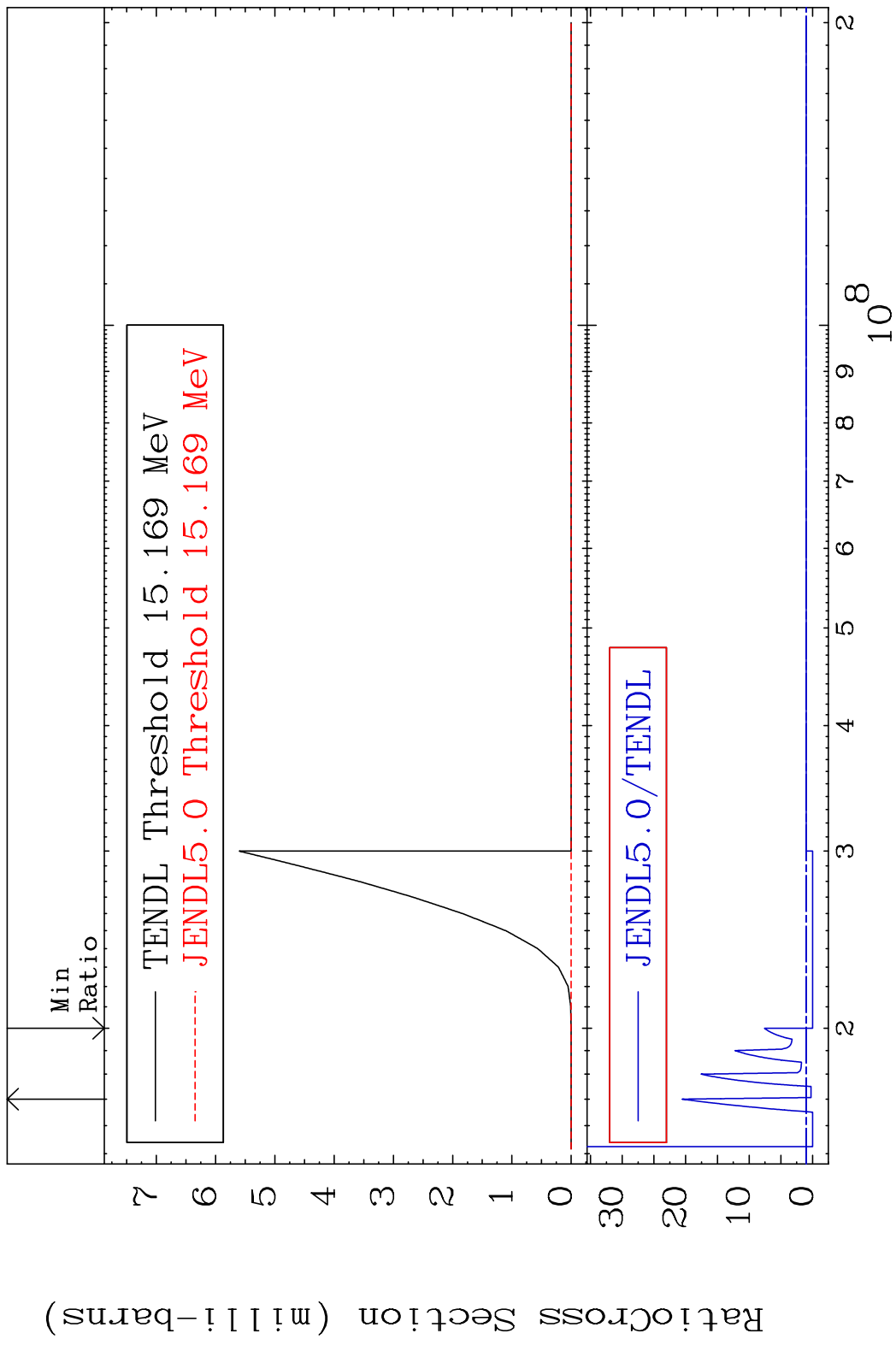


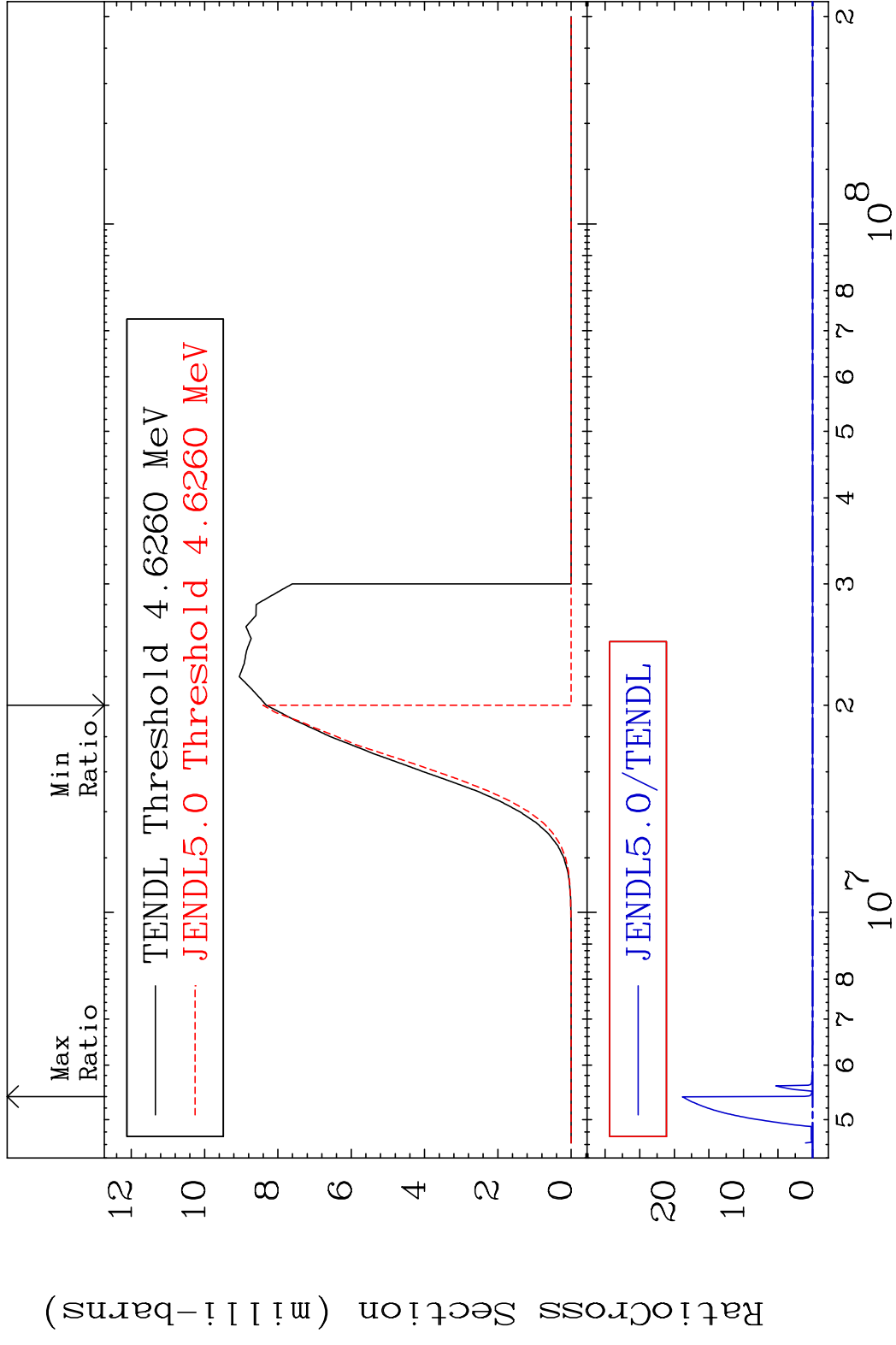


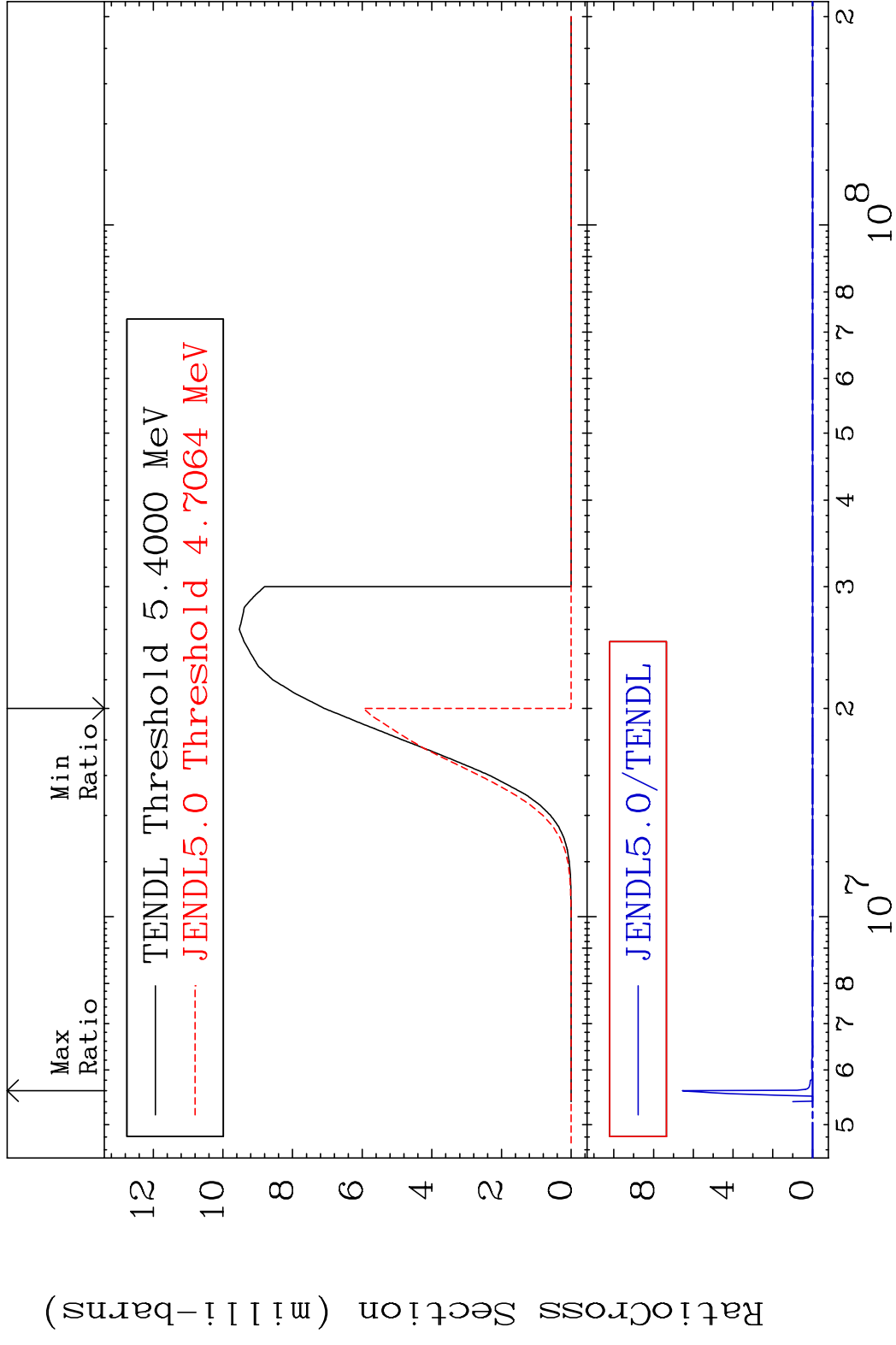


MAT 5649 (n,2n) α :54-Xe-133m1 56-Ba-138
 Radionuclide Production Cross Section Ratio 9999. %









MAT 5649 (n,t):55-Cs-136g 56-Ba-138
 Radionuclide Production Cross Section 180.0 dth 322.2 %

