

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

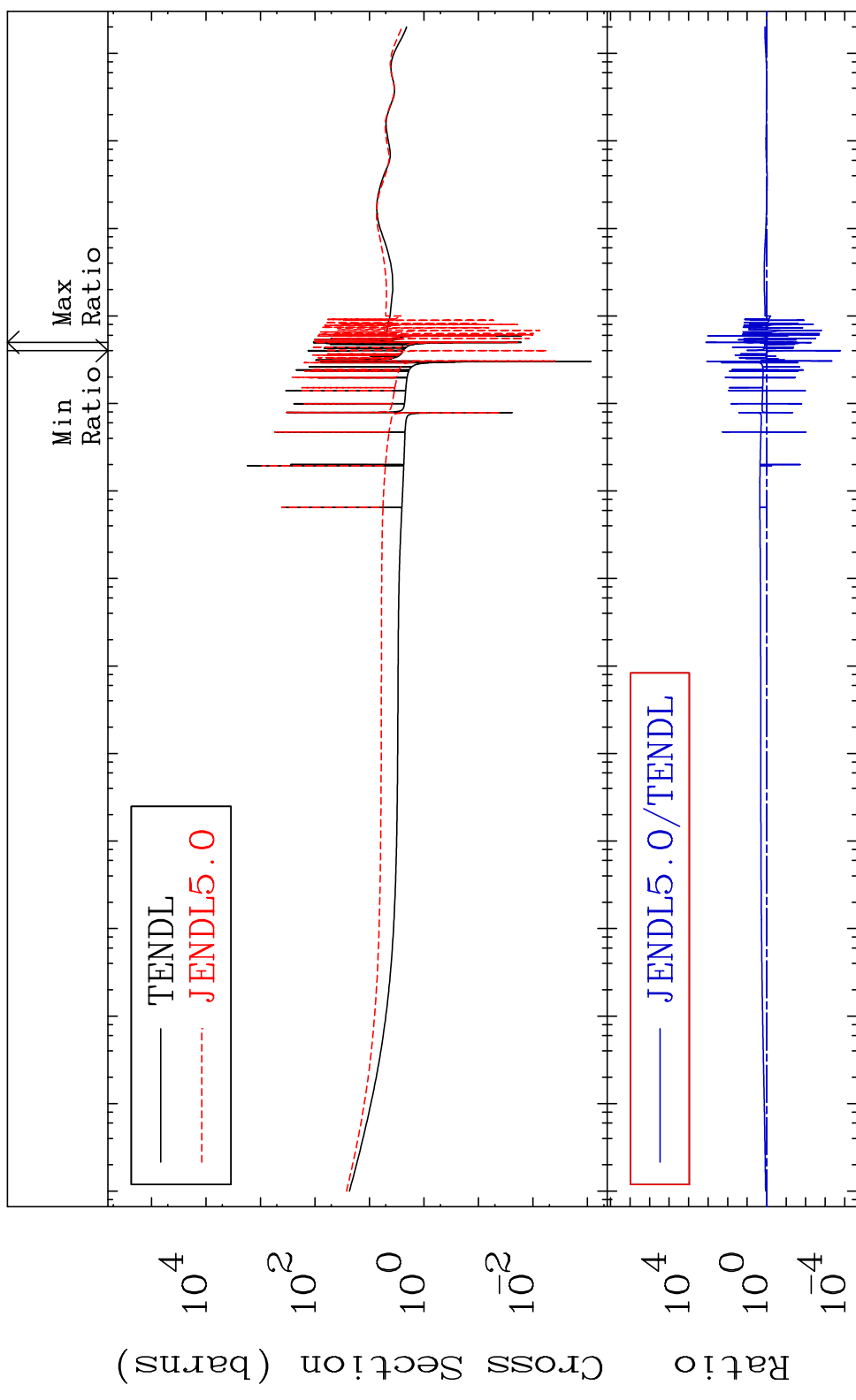
MAT 5649

Total

56-Ba-138

Cross Section

-99.98 To 9999. %



1

Incident Energy (eV)

56-Ba-138

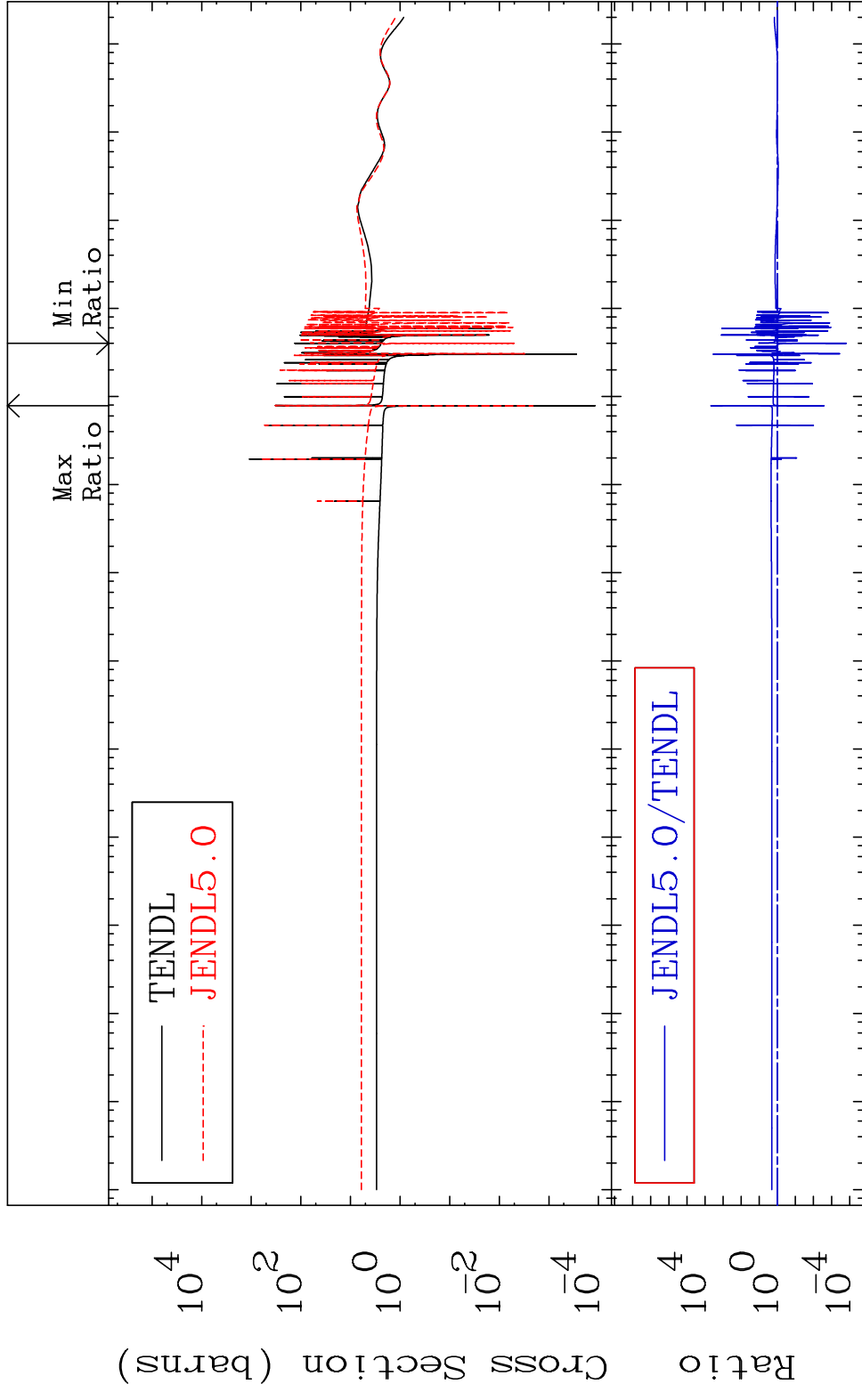
MAT 5649

Elastic

56-Ba-138

Cross Section

-99.98 To 9999. %



— TENDL
- - - JENDL5.0

— JENDL5.0/TENDL

2

Incident Energy (eV)

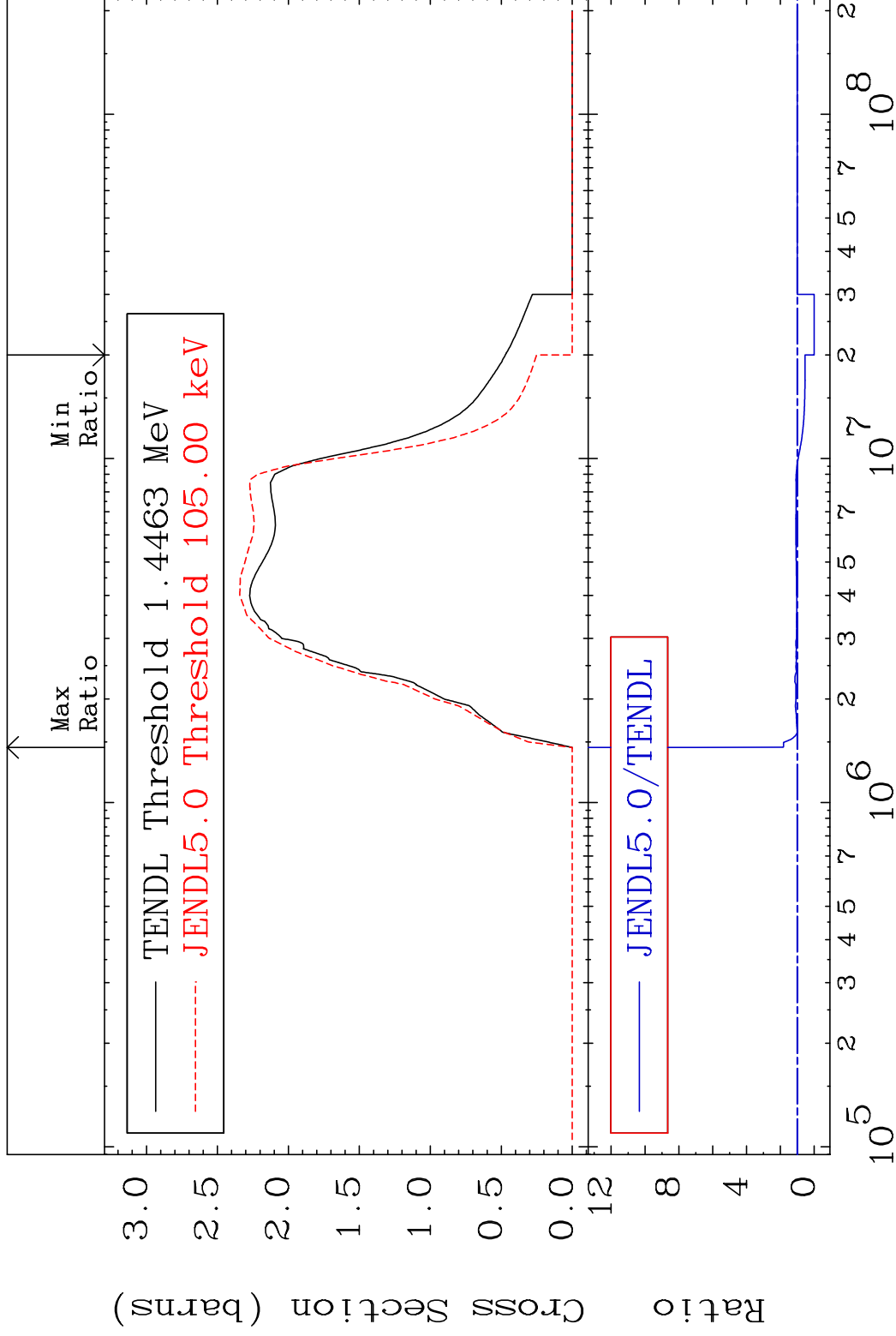
56-Ba-138

MAT 5649

Inelastic

56-Ba-138

Cross Section -100.0 To 671.3 %

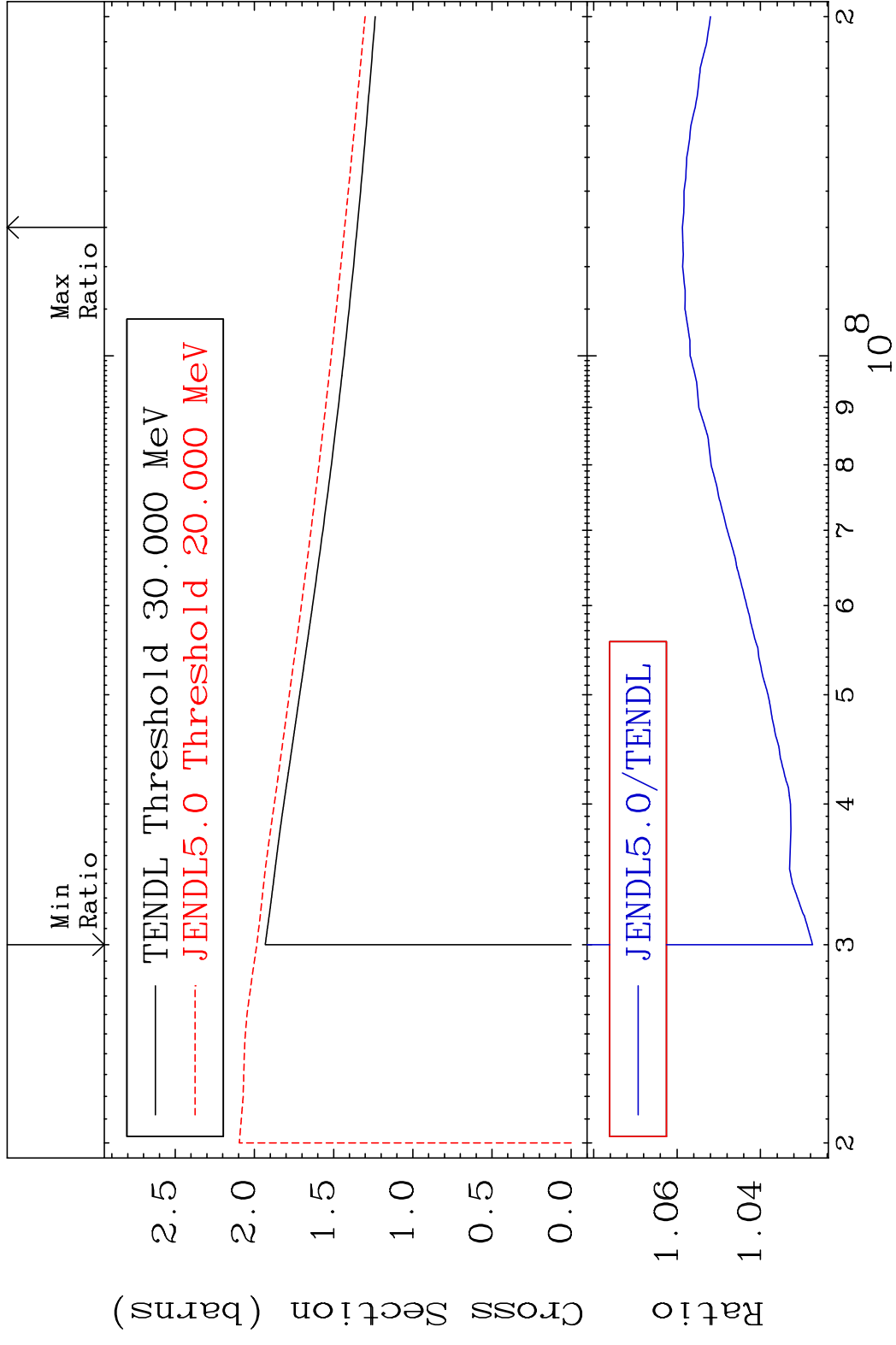


3

Incident Energy (eV)

56-Ba-138

MAT 5649 (n, remainder) 56-Ba-138
 Cross Section 2.752 To 5.873 %

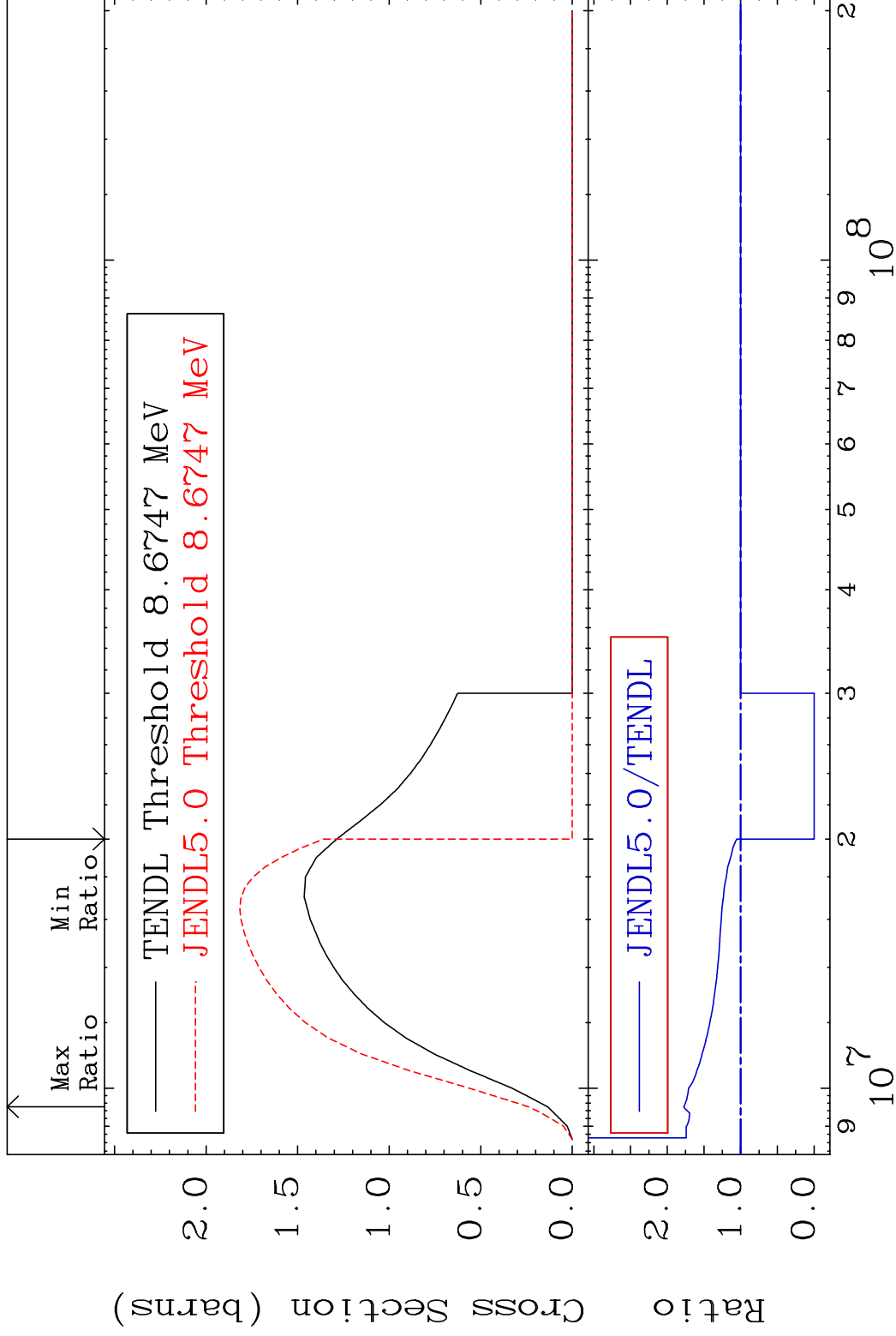


MAT 5649

(n,2n)

56-Ba-138

Cross Section -100.0 To 77.66 %



5

Incident Energy (eV)

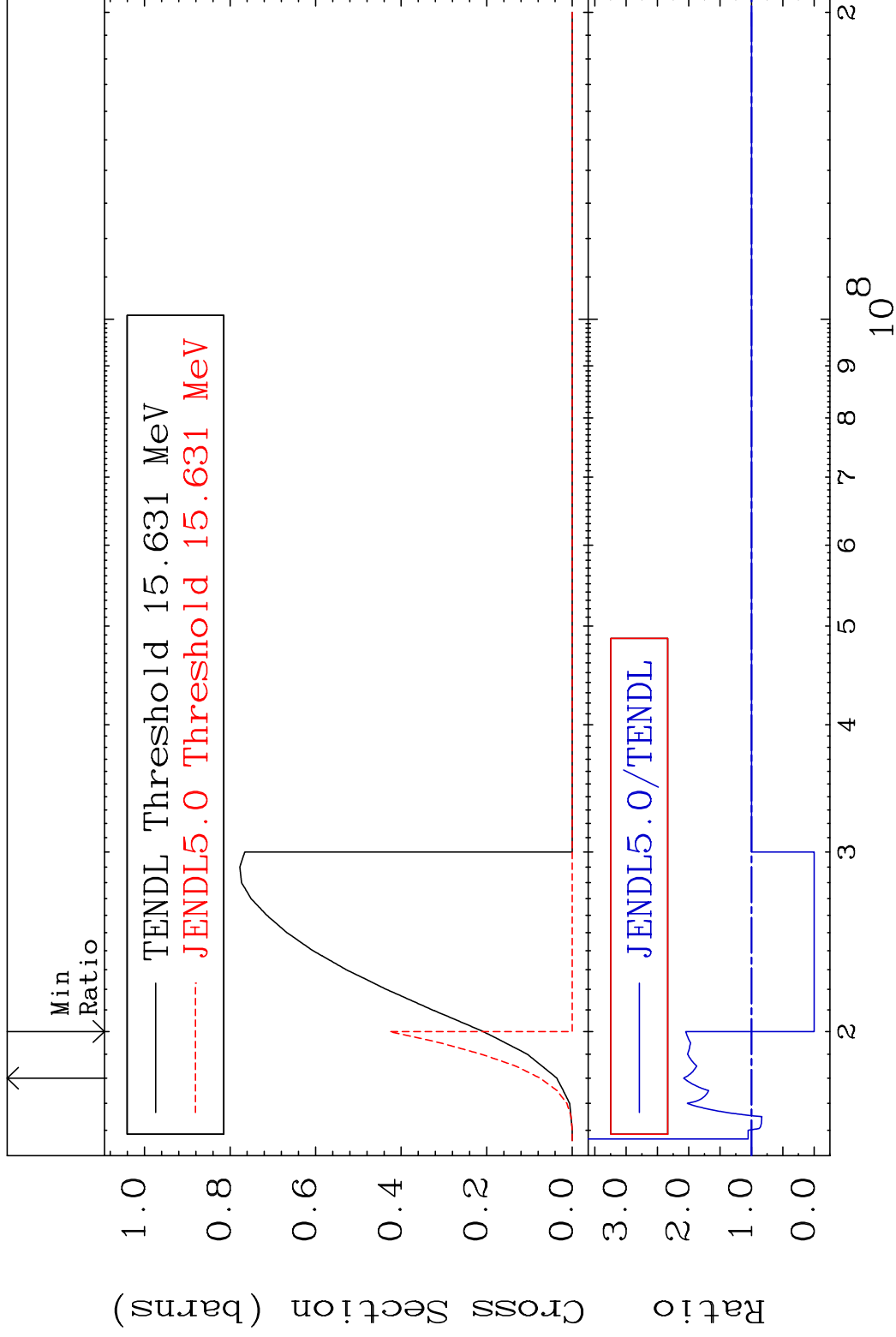
56-Ba-138

MAT 5649

(n,3n)

56-Ba-138

Cross Section -100.0 To 108.2 %

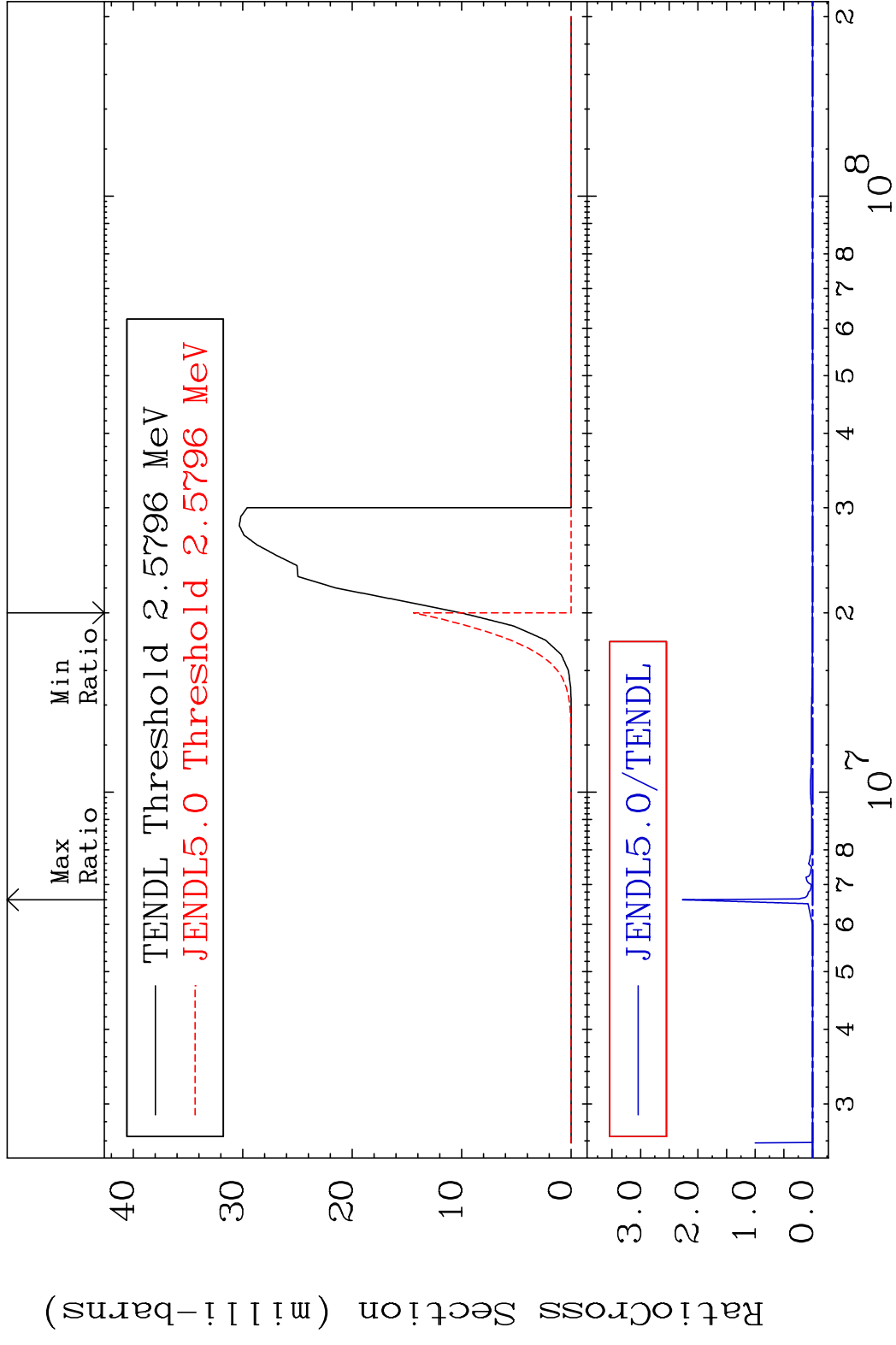


6

Incident Energy (eV)

56-Ba-138

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



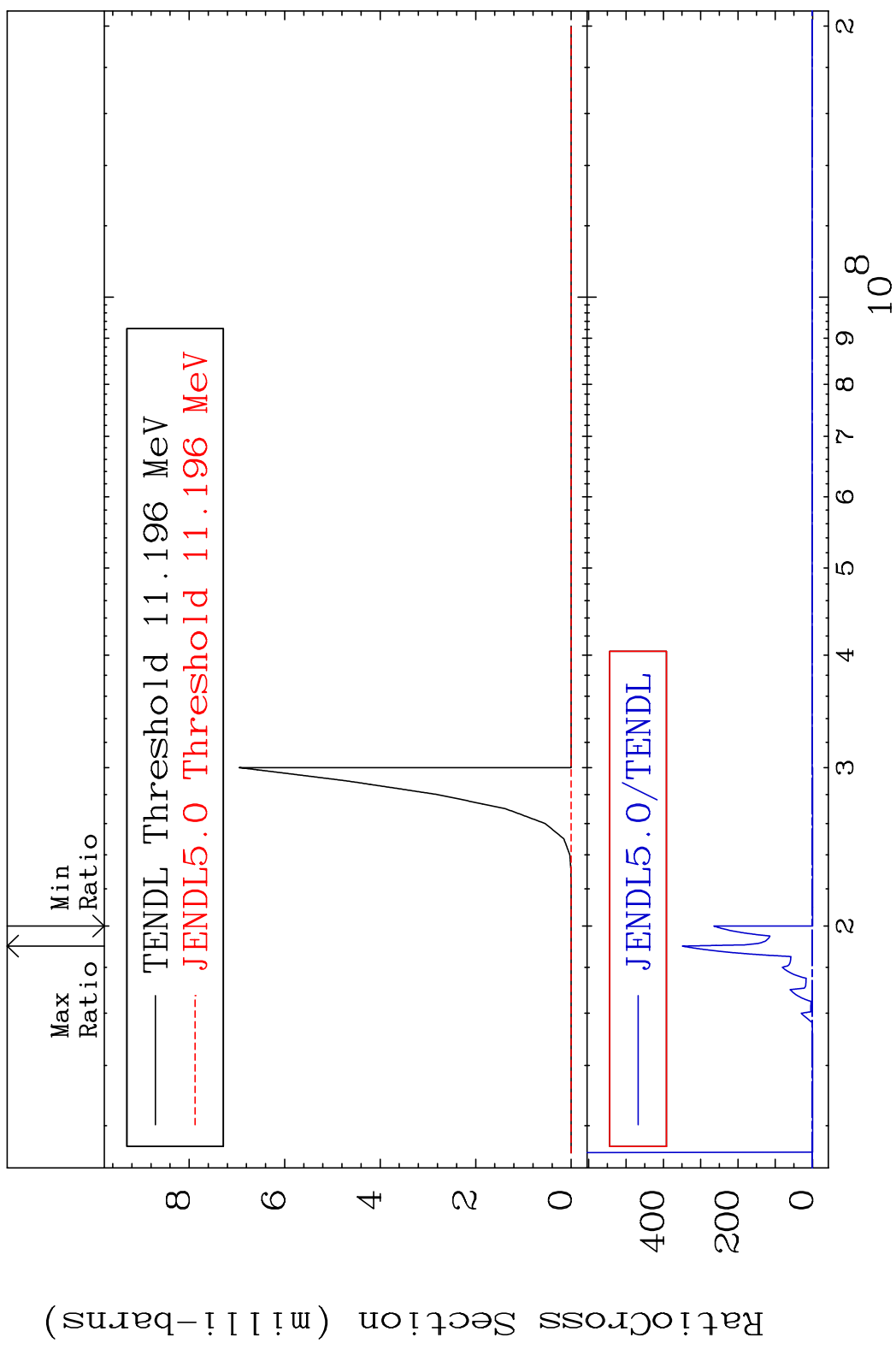
7 7 Incident Energy (eV) 56-Ba-138

MAT 5649

(n,2n) α

56-Ba-138

Cross Section -100.0 To 9999. %

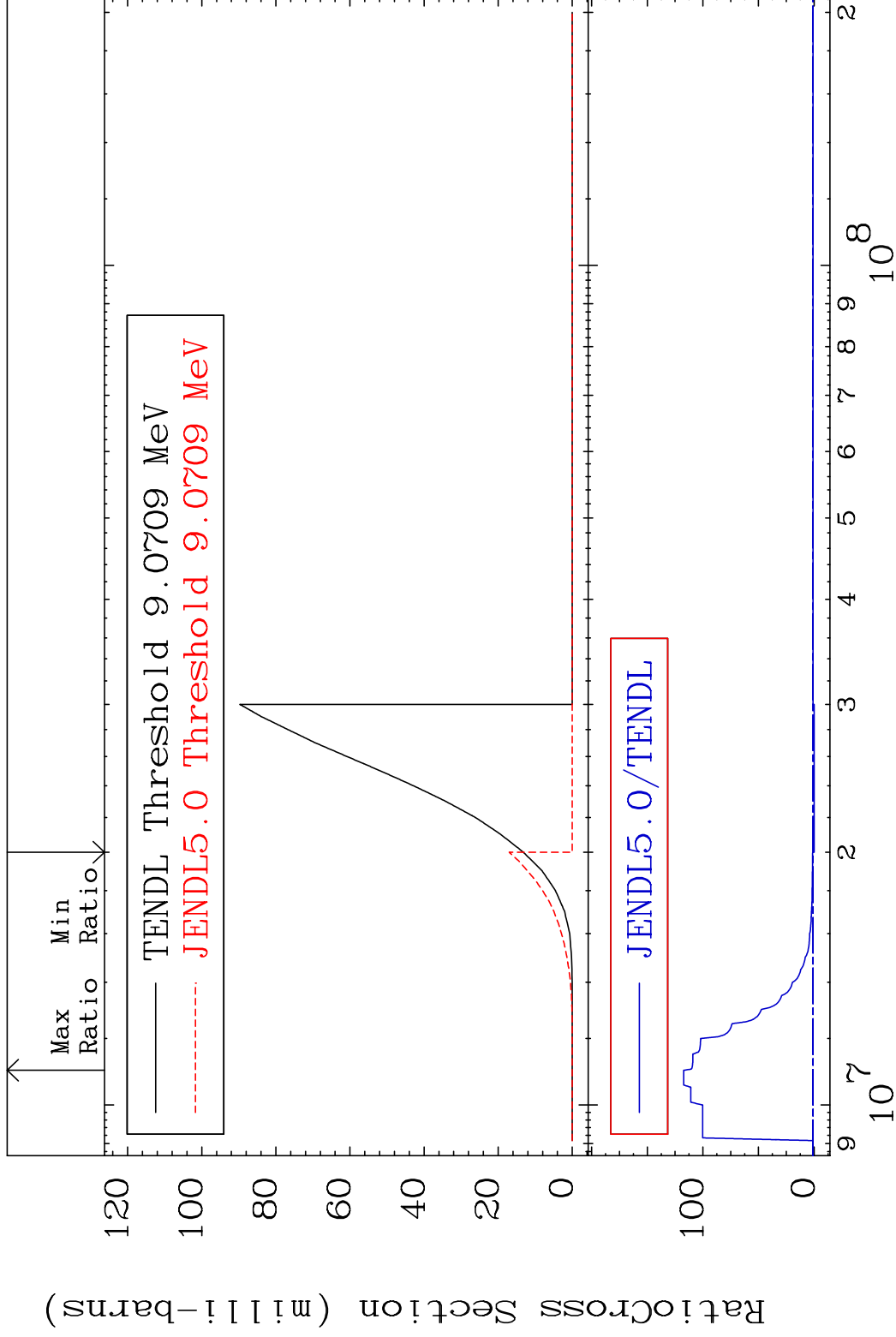


MAT 5649

(n, n') p

56-Ba-138

Cross Section -100.0 To 9999. %



9

Incident Energy (eV)

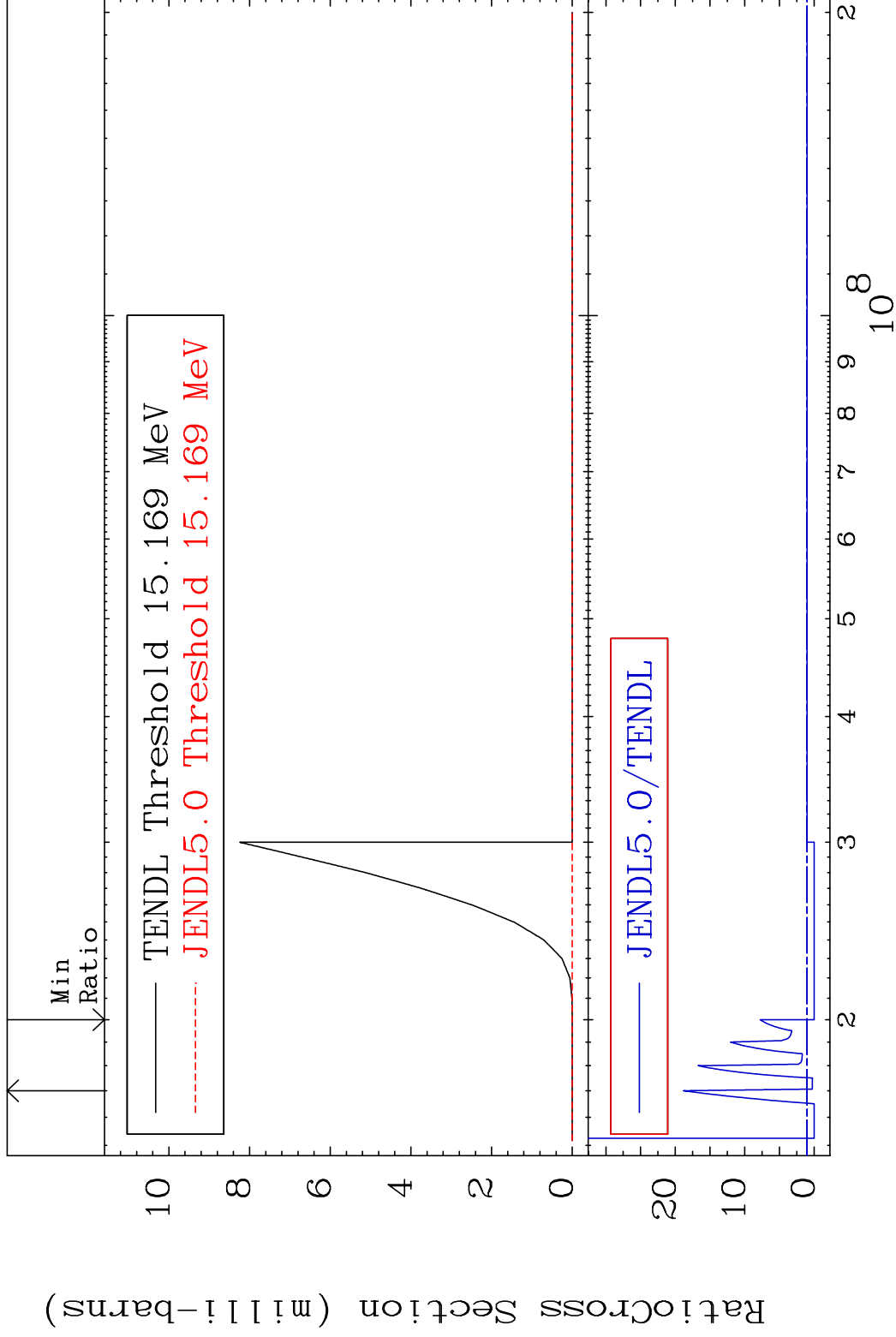
56-Ba-138

MAT 5649

(n, n') d

56-Ba-138

Cross Section -100.0 To 1780. %

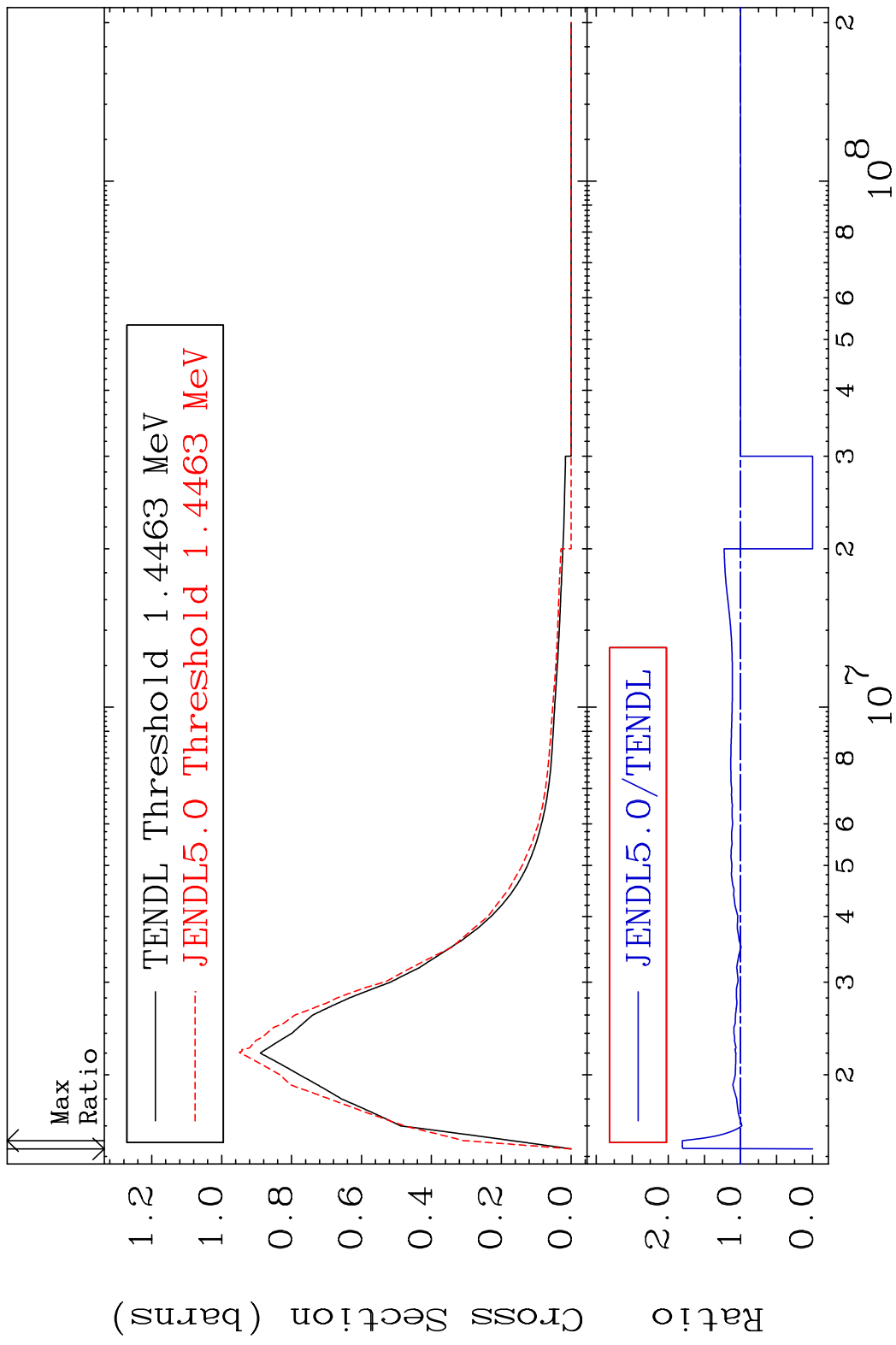


10

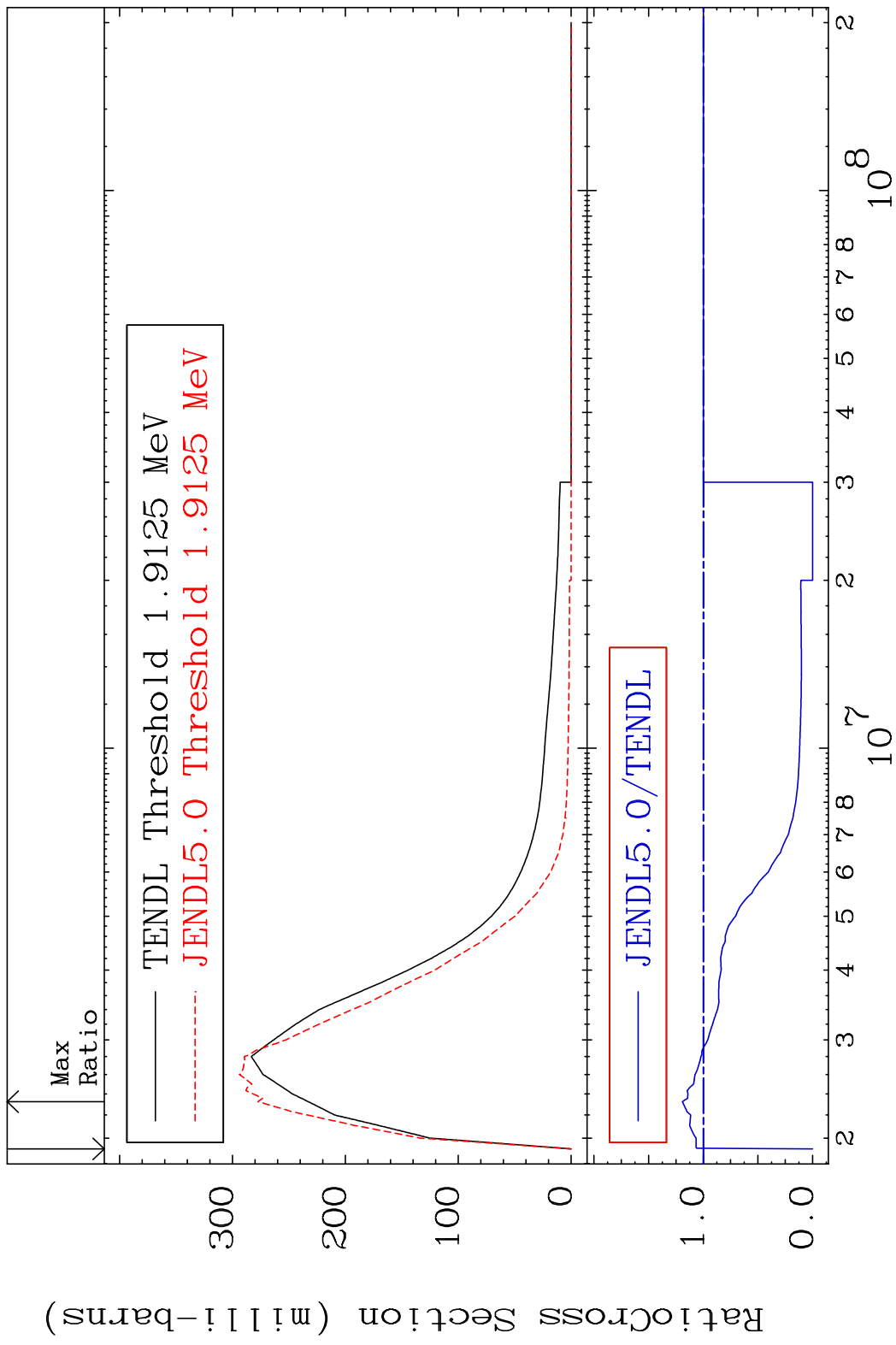
Incident Energy (eV)

56-Ba-138

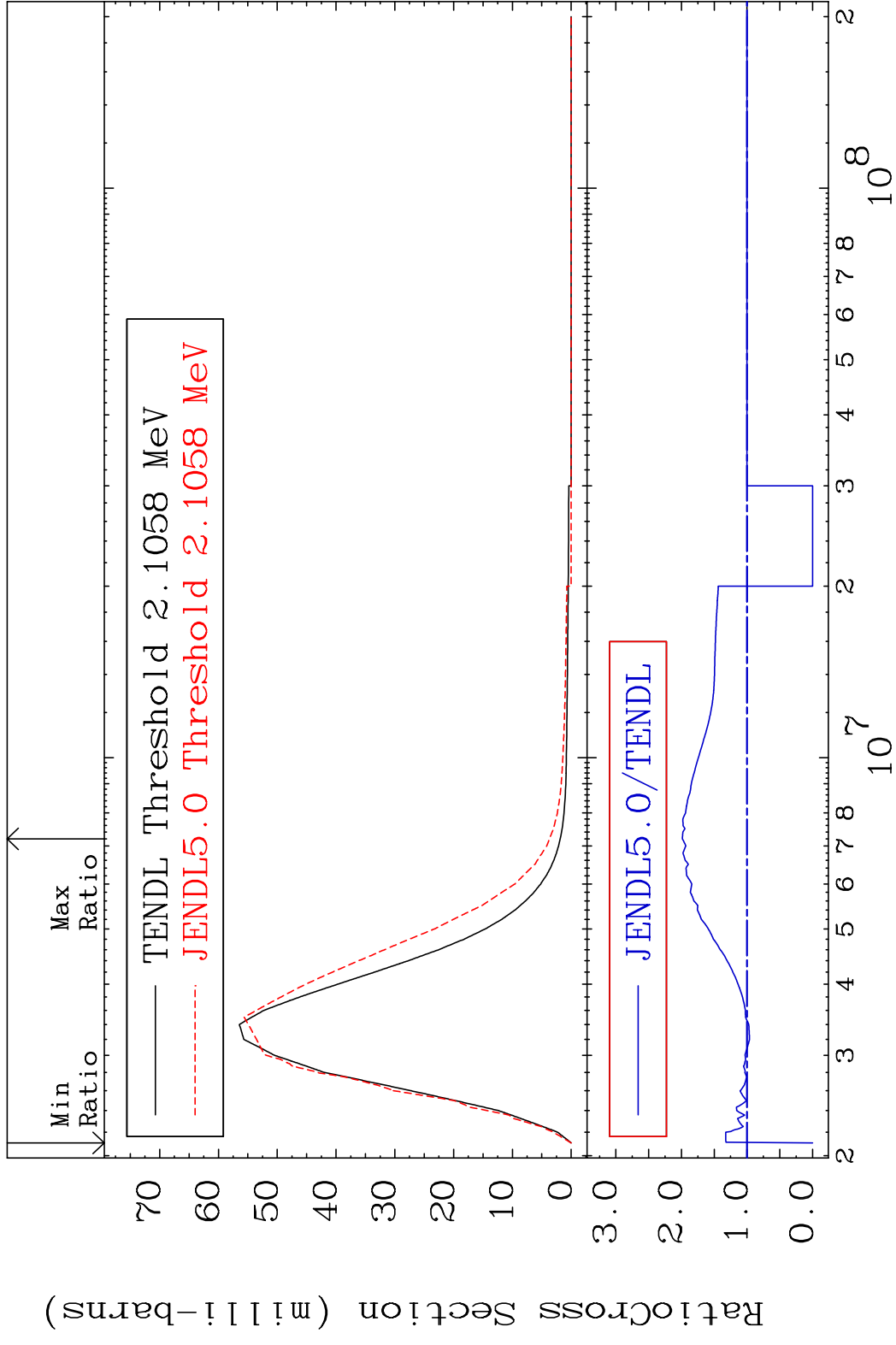
MAT 5649 MT= 51 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 80.59 %



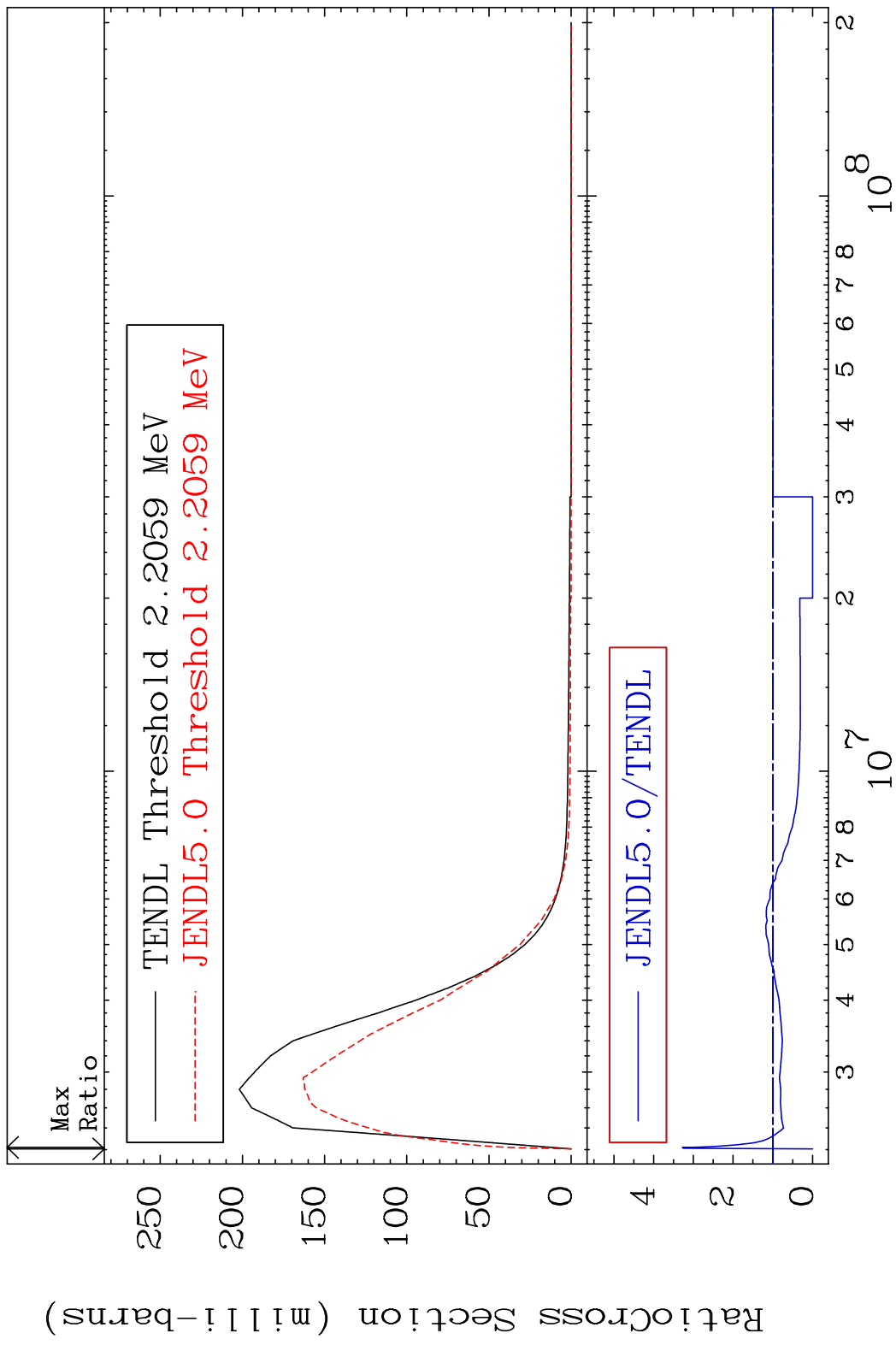
MAT 5649 MT= 52 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 19.14 %



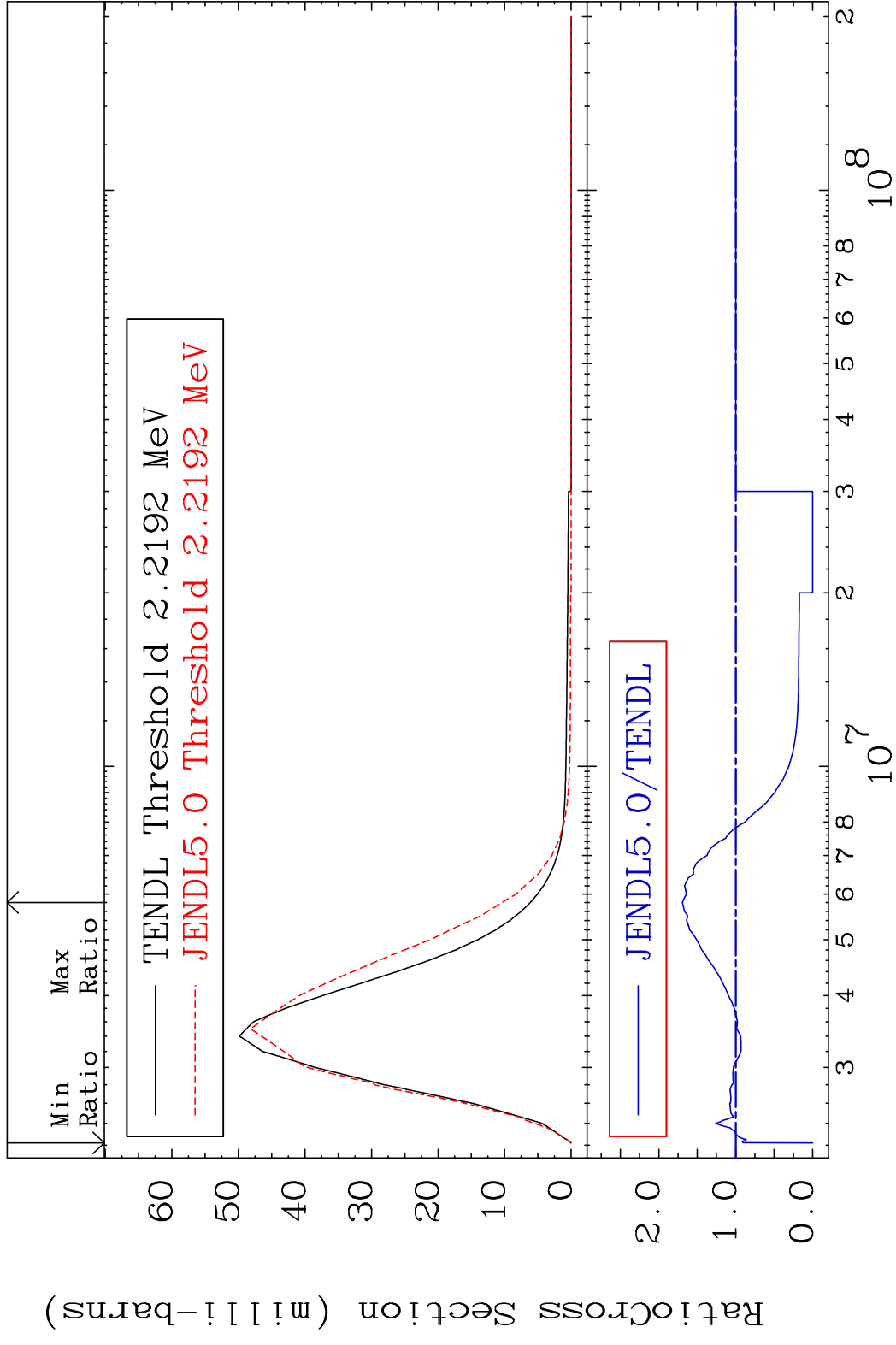
MAT 5649 MT= 53 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 98.63 %



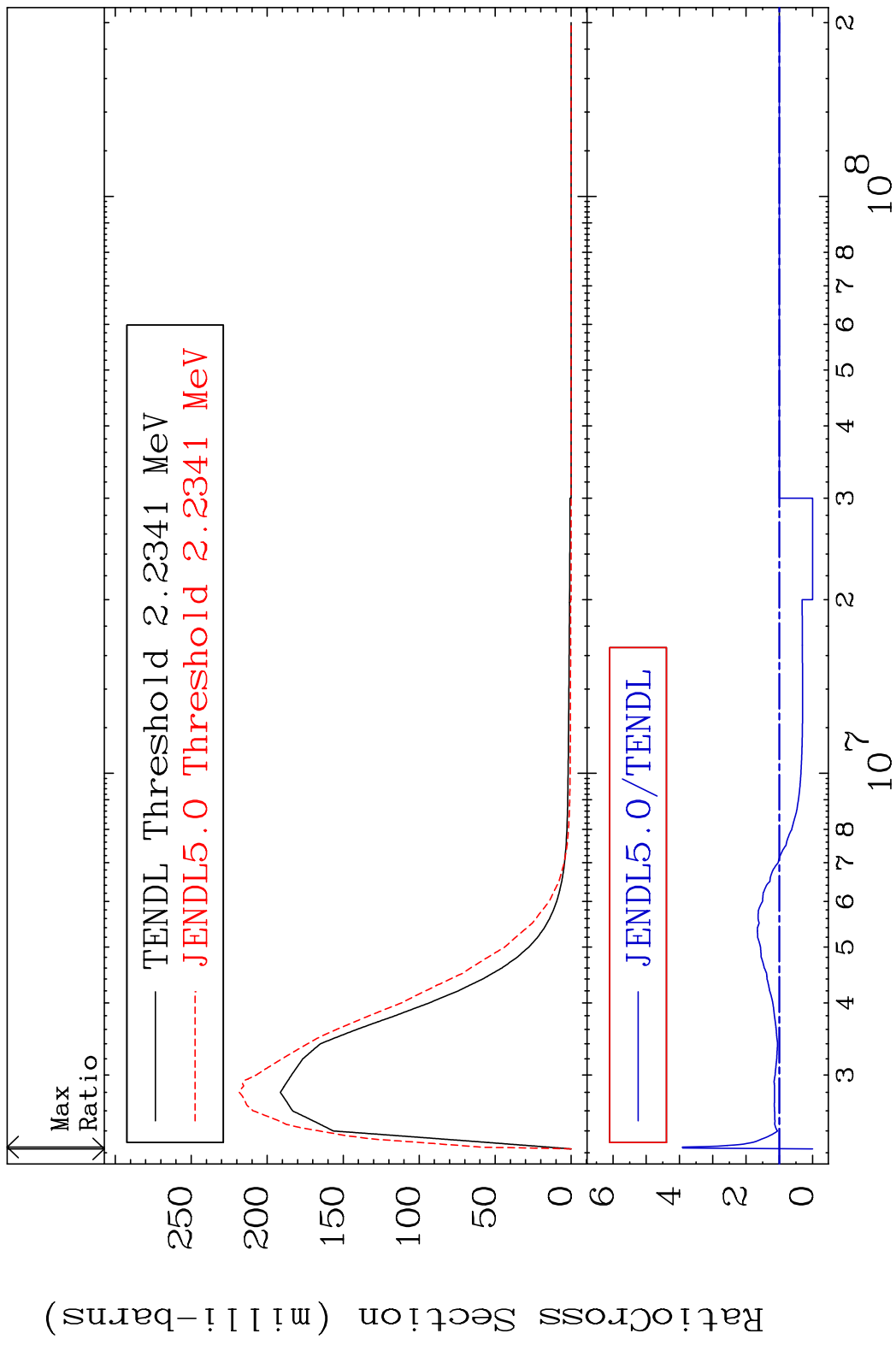
MAT 5649 MT= 54 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 227.7 %



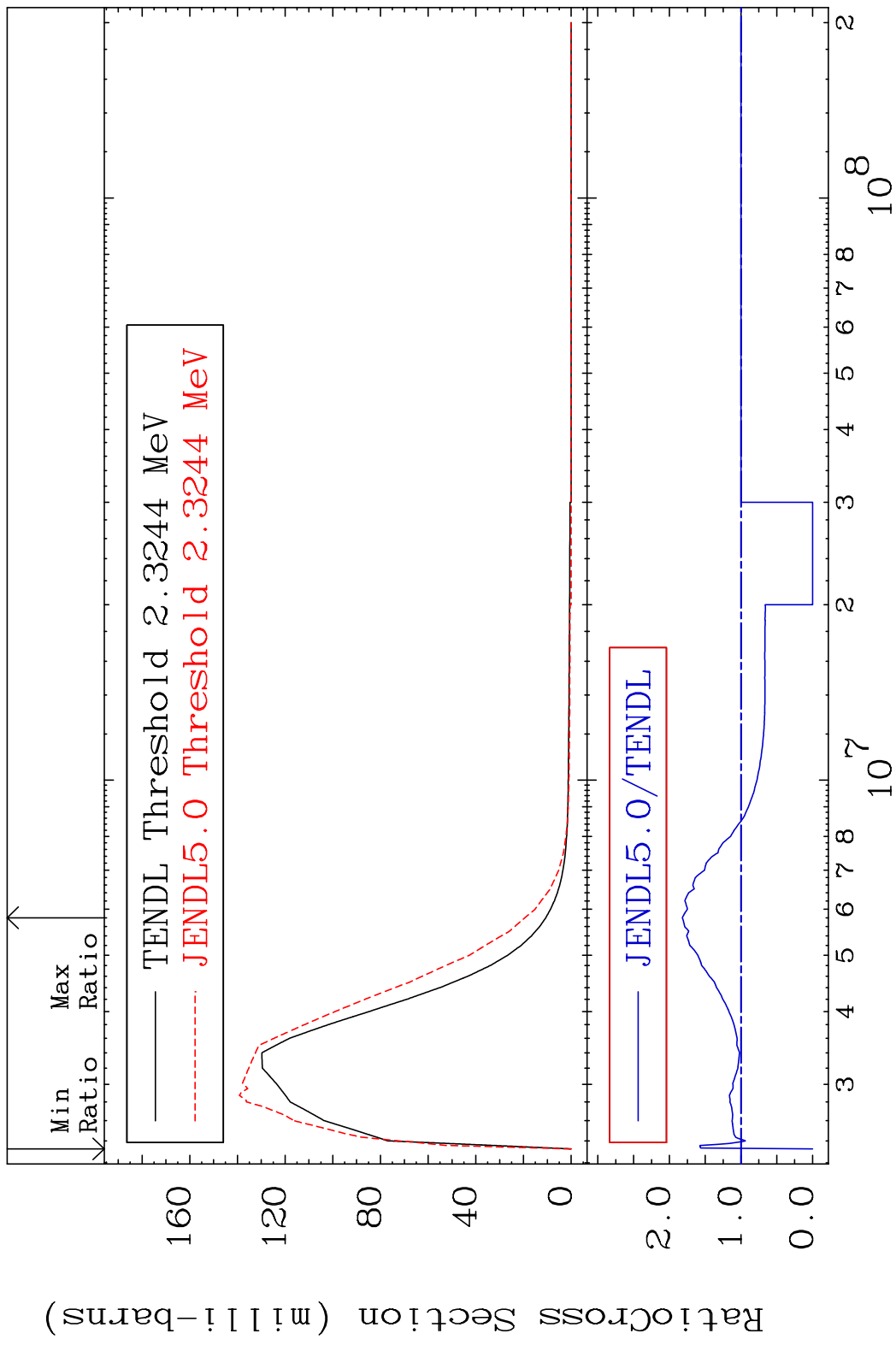
MAT 5649 MT= 55 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 69.40 %



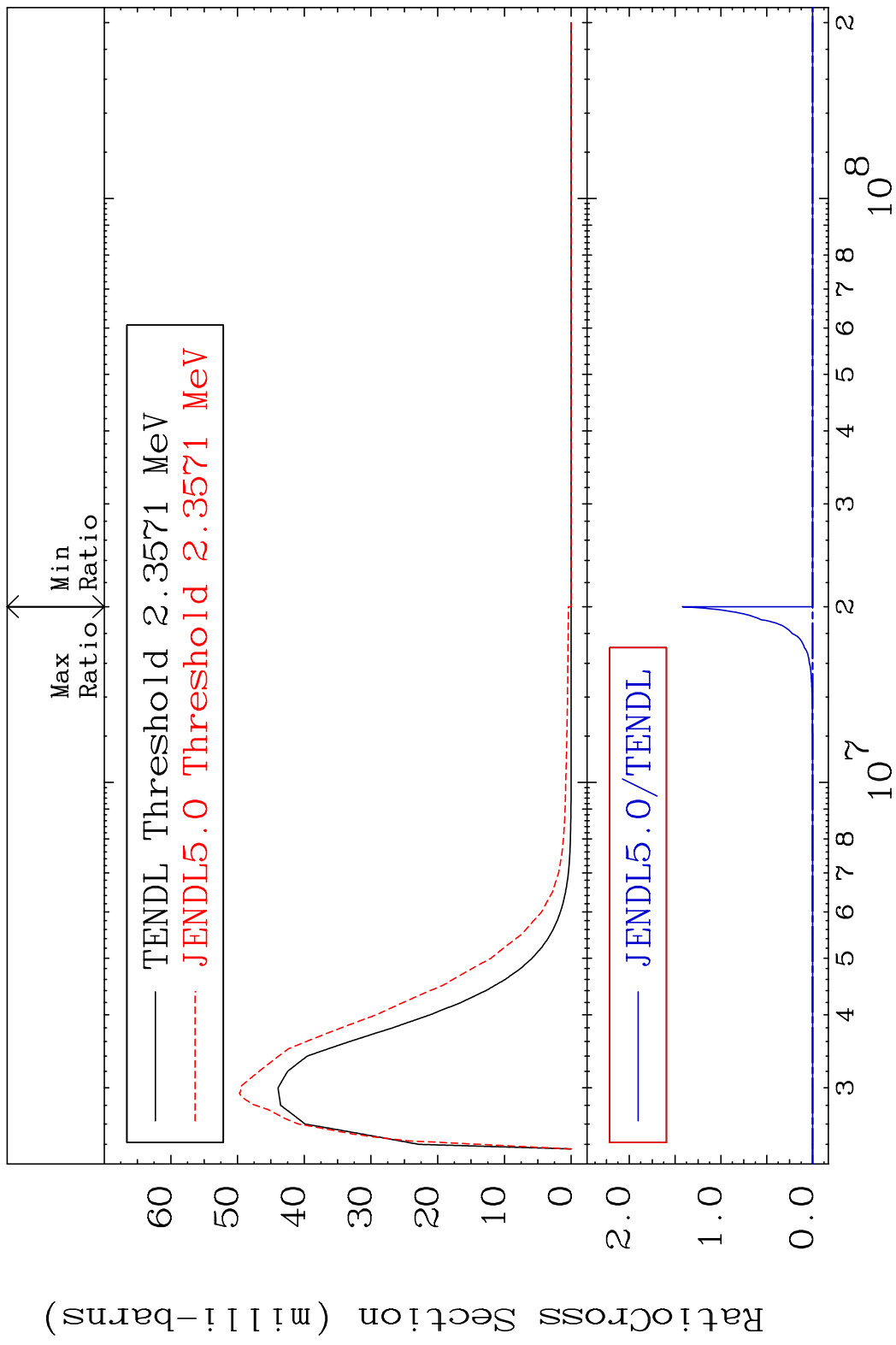
MAT 5649 MT= 56 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 291.4 %



MAT 5649 MT= 57 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 81.96 %

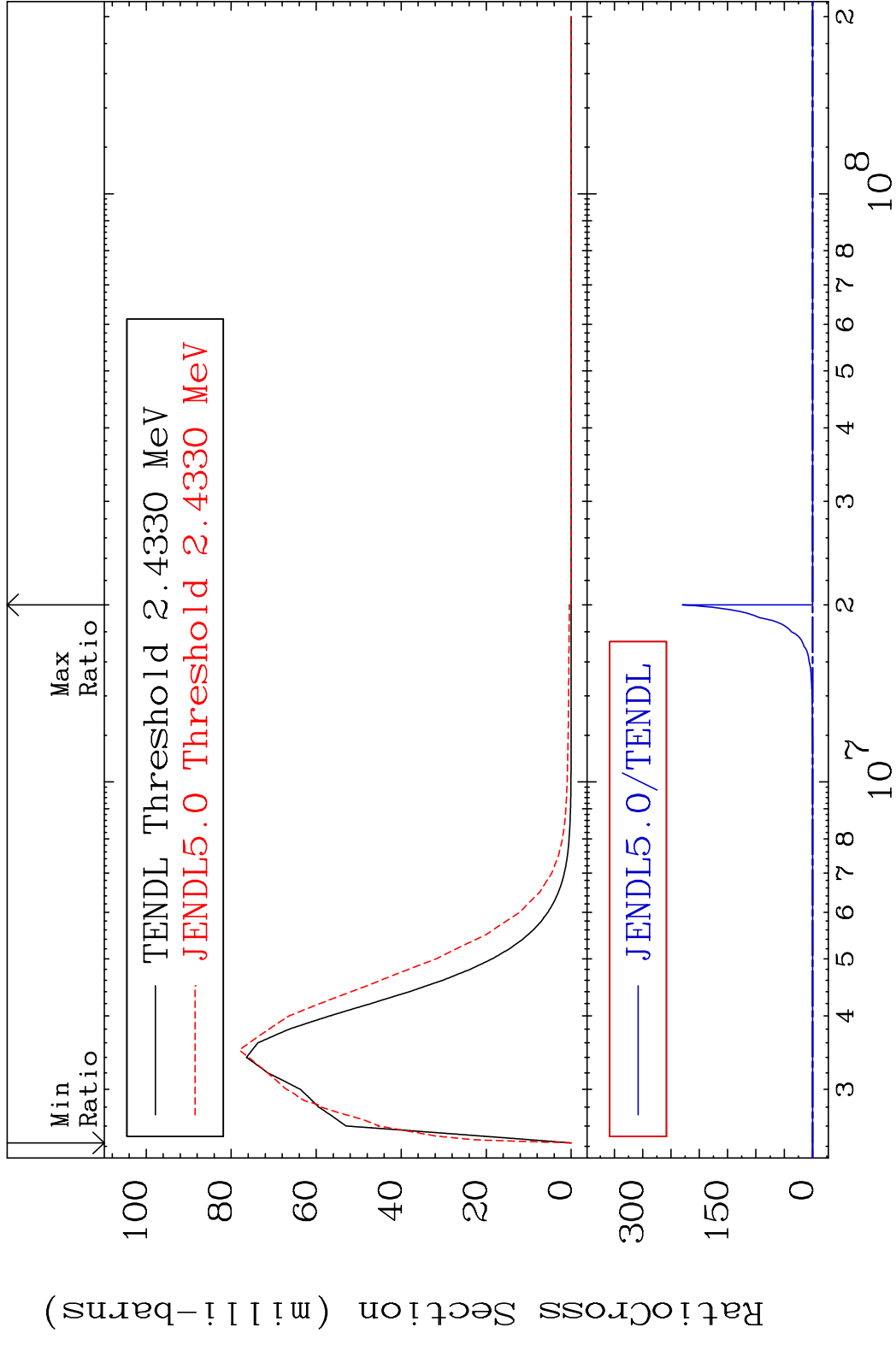


MAT 5649 MT= 58 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %

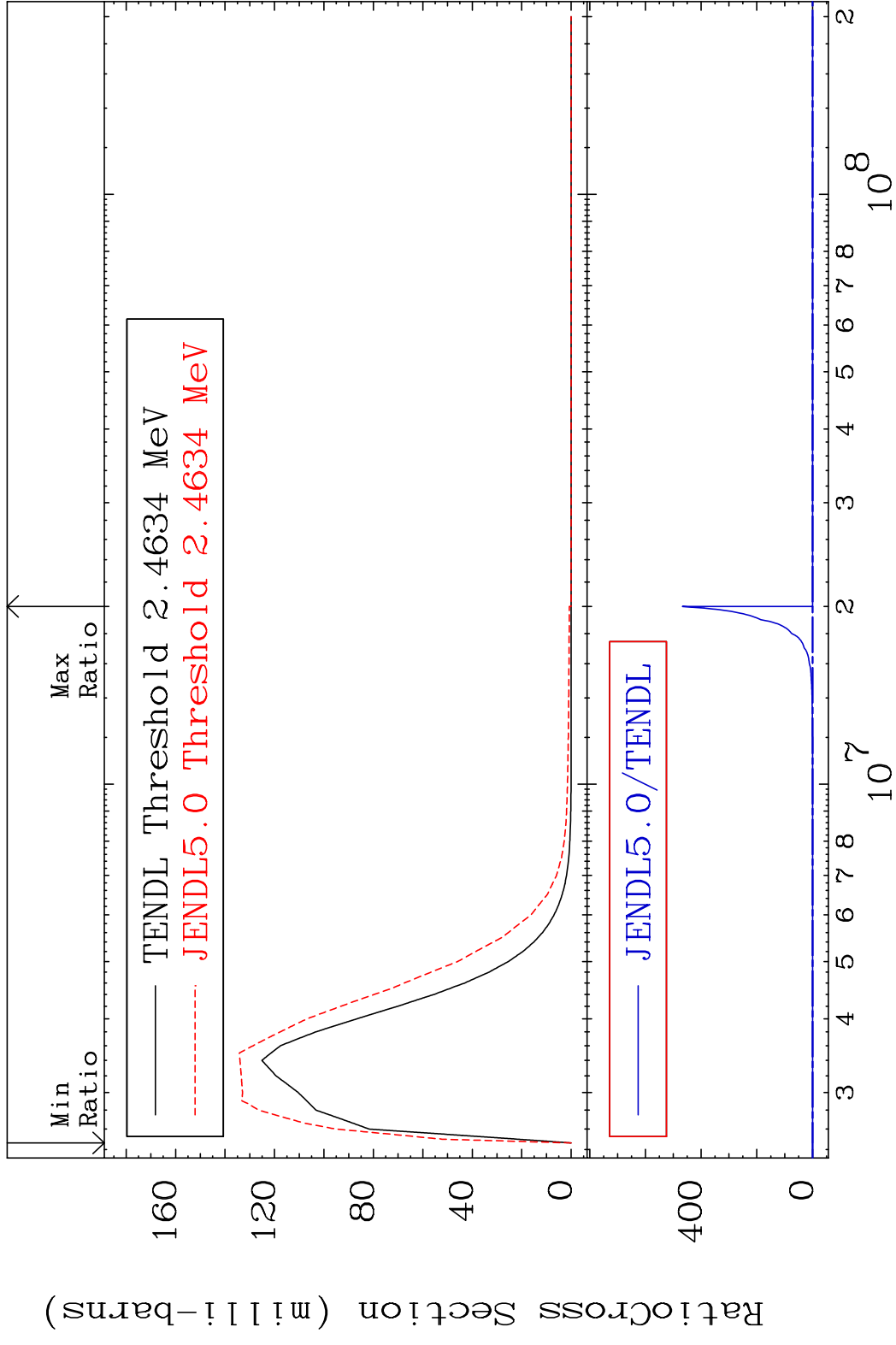


18 56-Ba-138

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

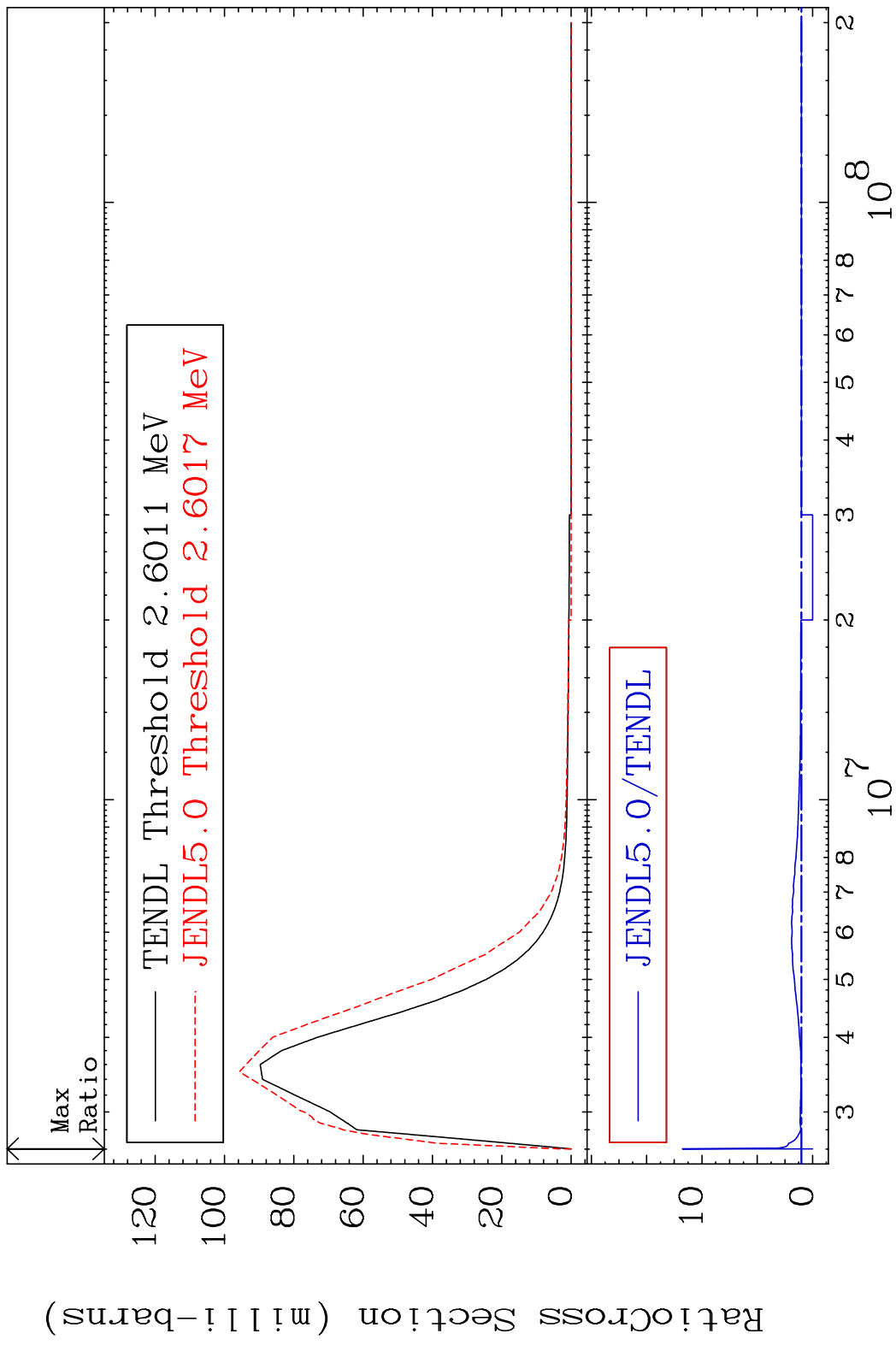


MAT 5649 MT= 60 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %

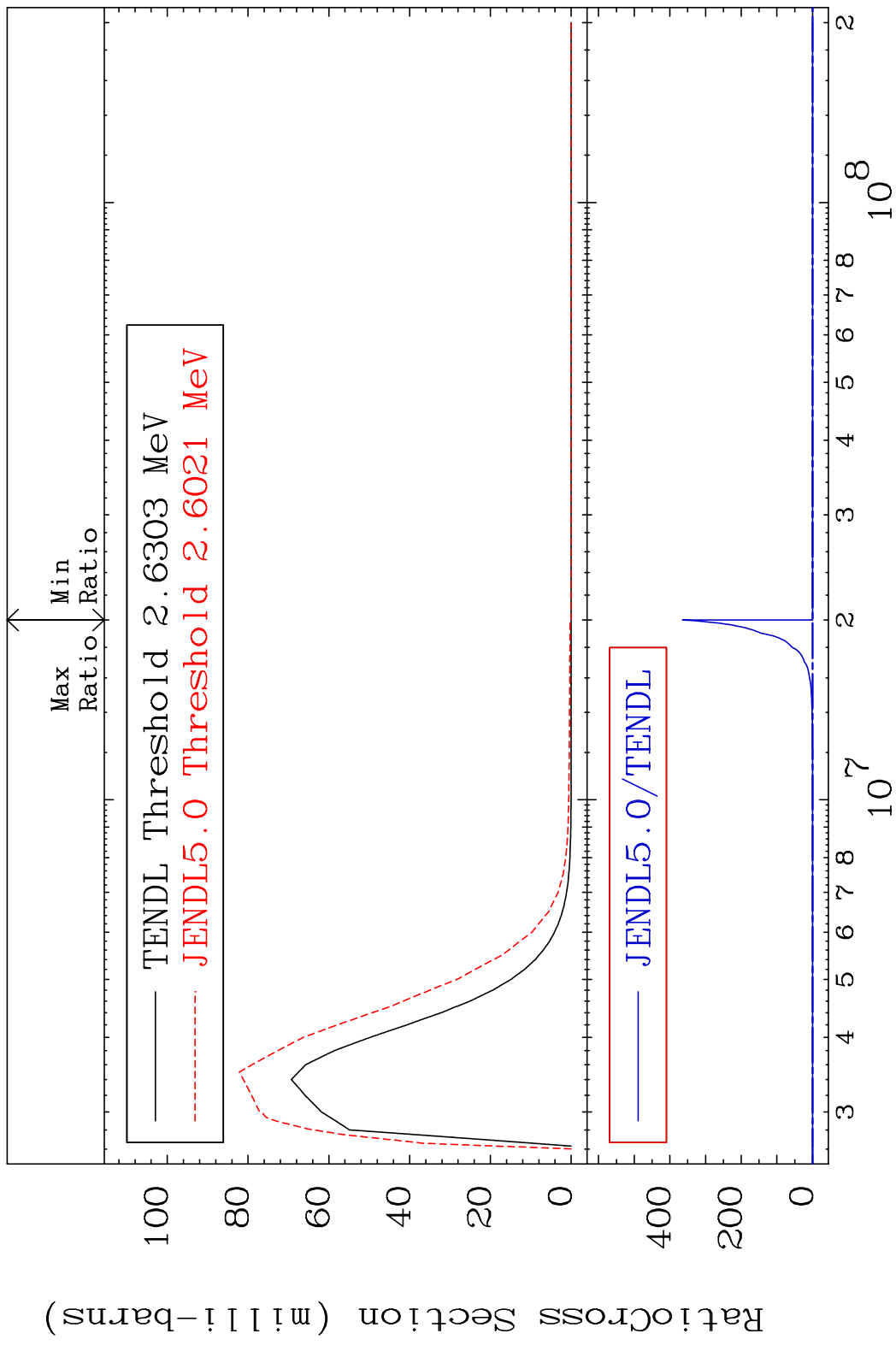


20 56-Ba-138

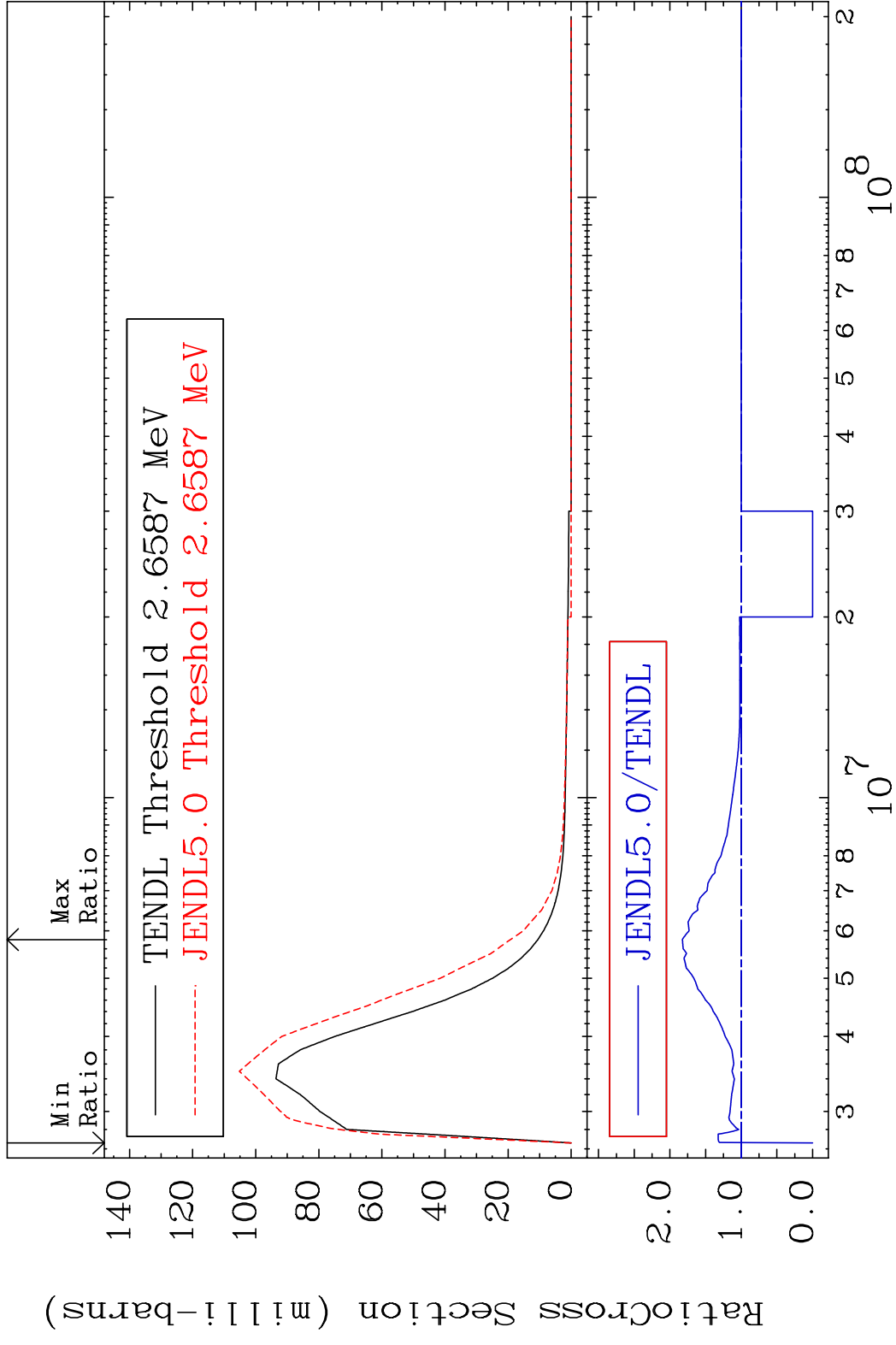
MAT 5649 MT= 61 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 1077. %



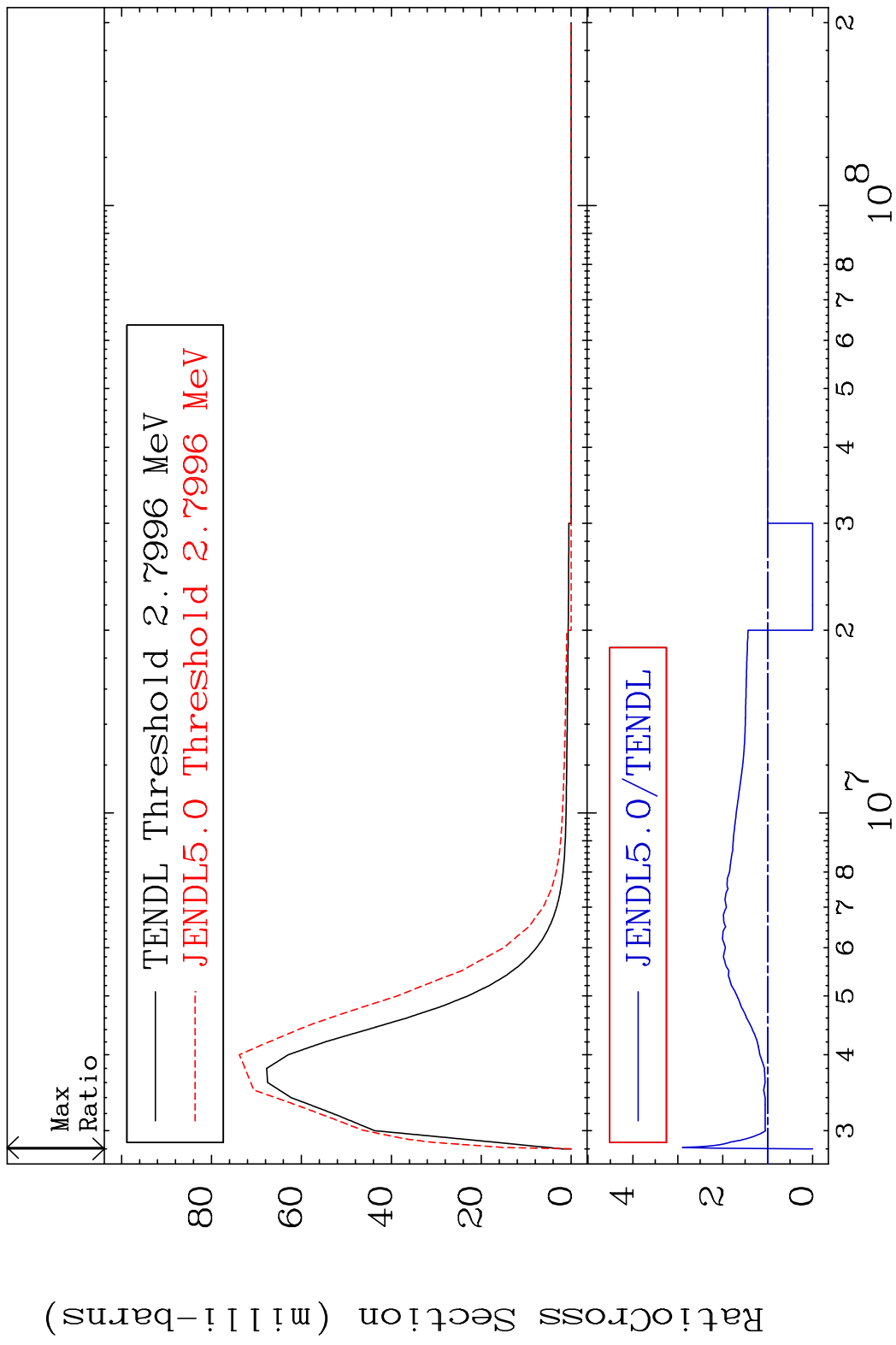
MAT 5649 MT= 62 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 9999. %



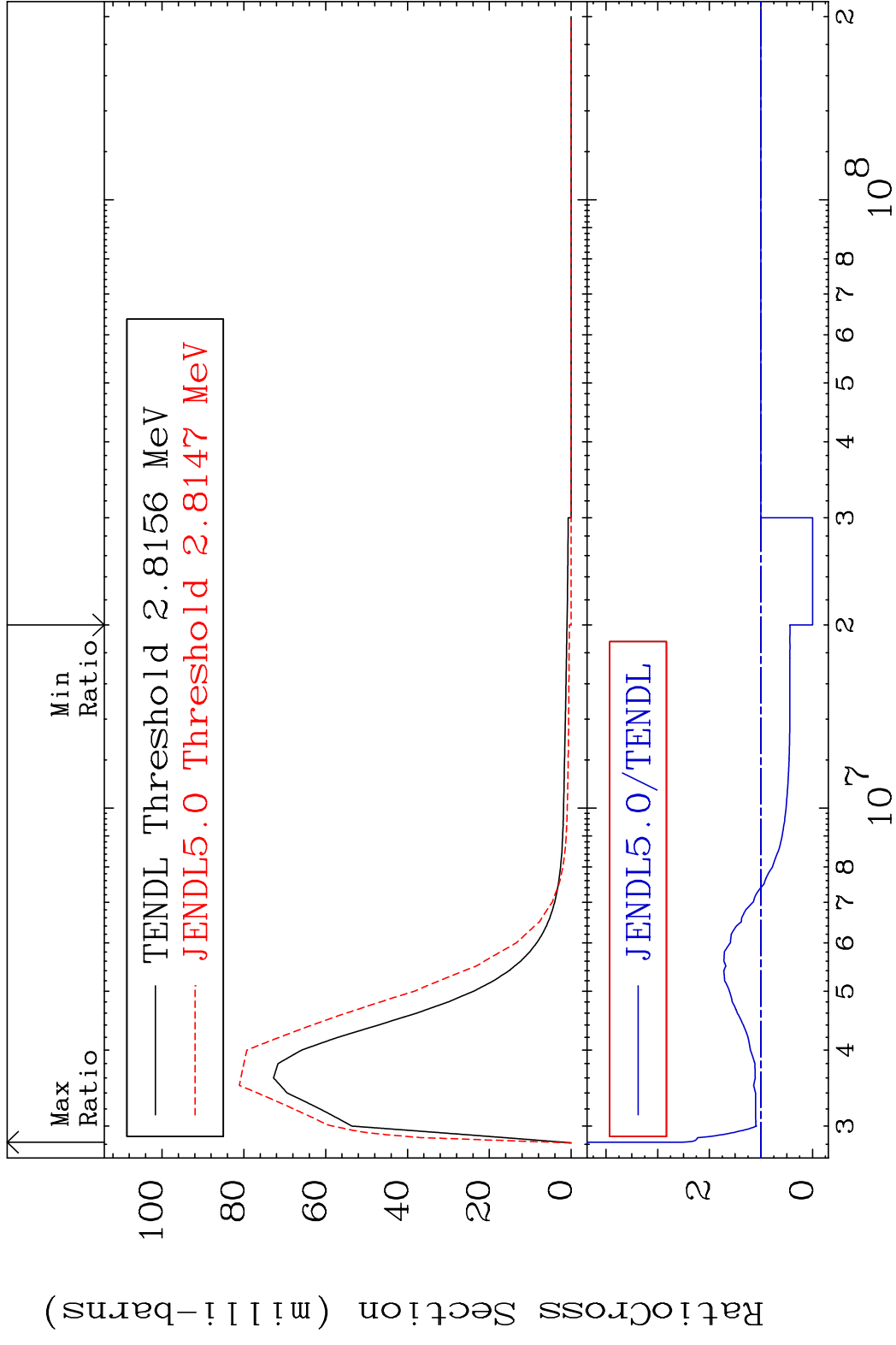
MAT 5649 MT= 63 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 82.53 %



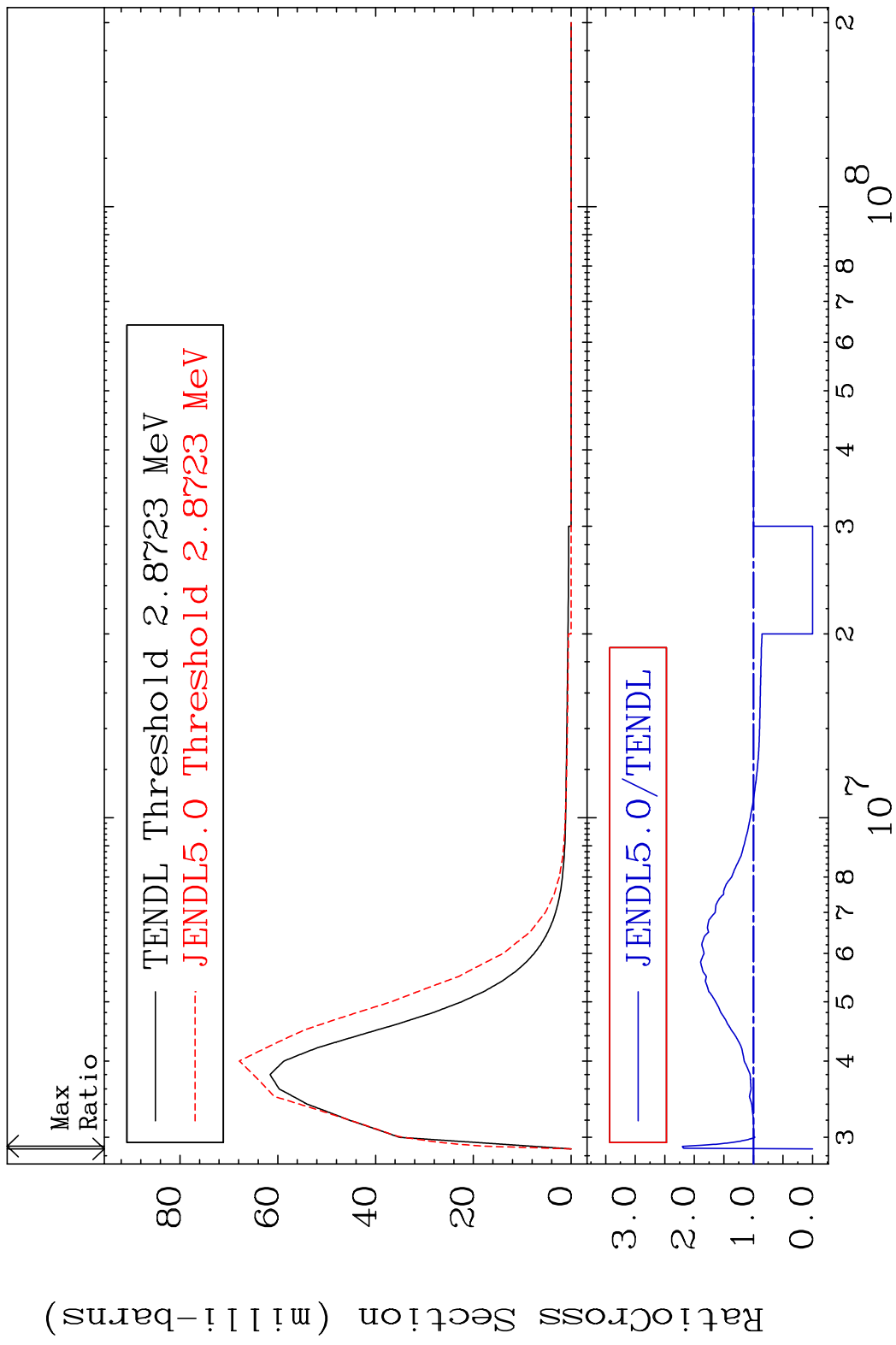
MAT 5649 MT= 64 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 189.8 %



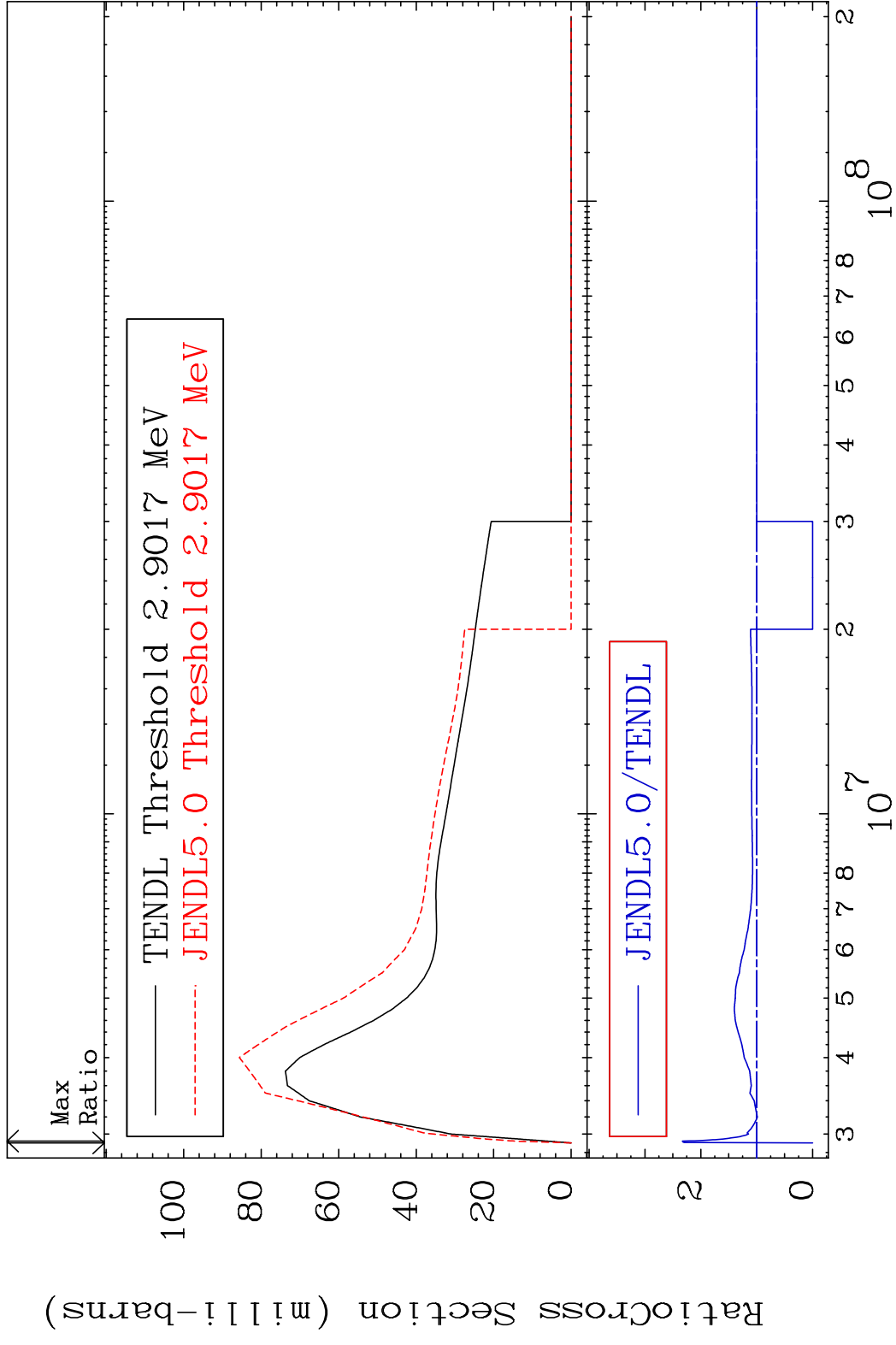
MAT 5649 MT= 65 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 152.2 %



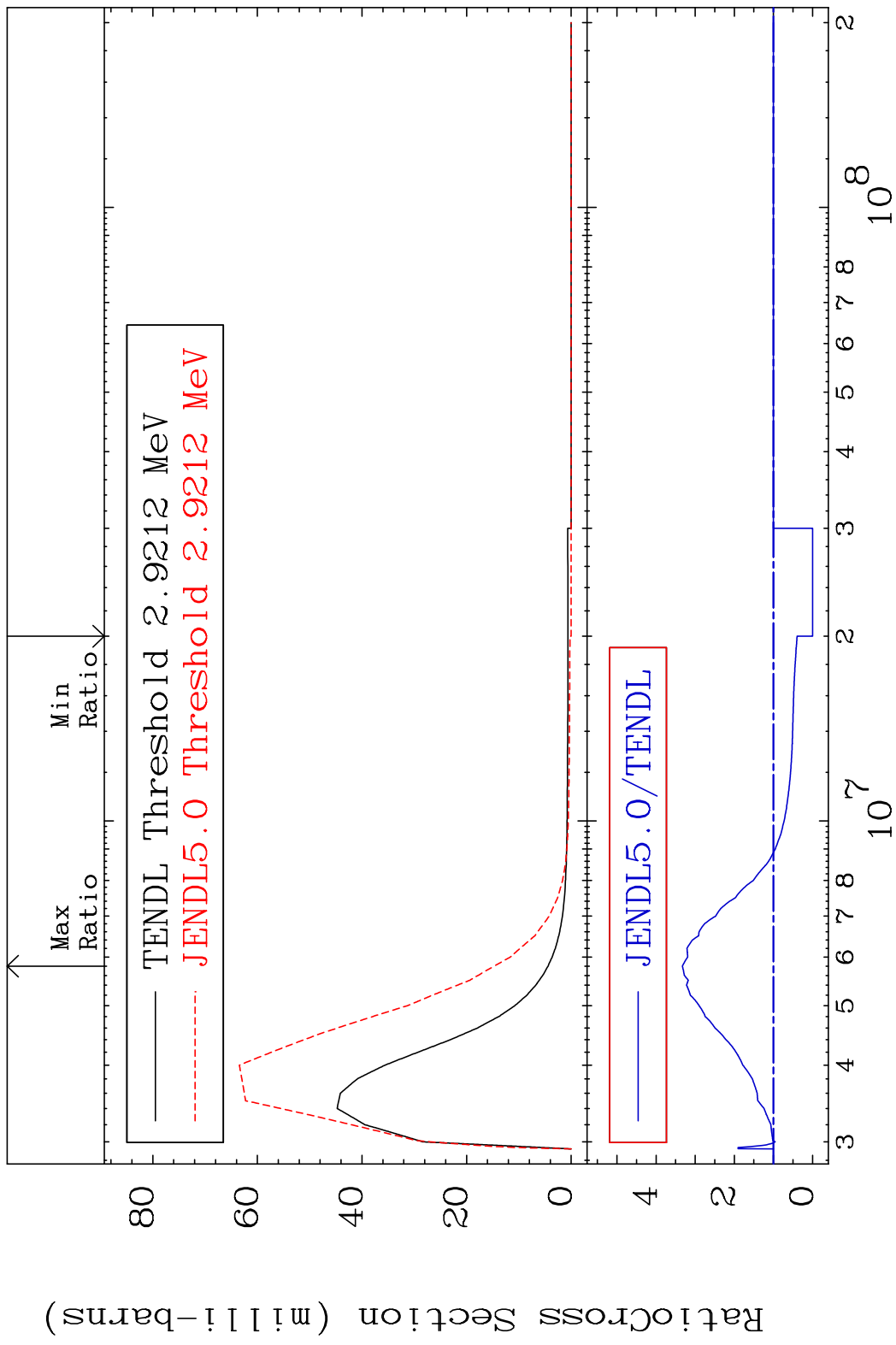
MAT 5649 MT= 66 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 120.3 %



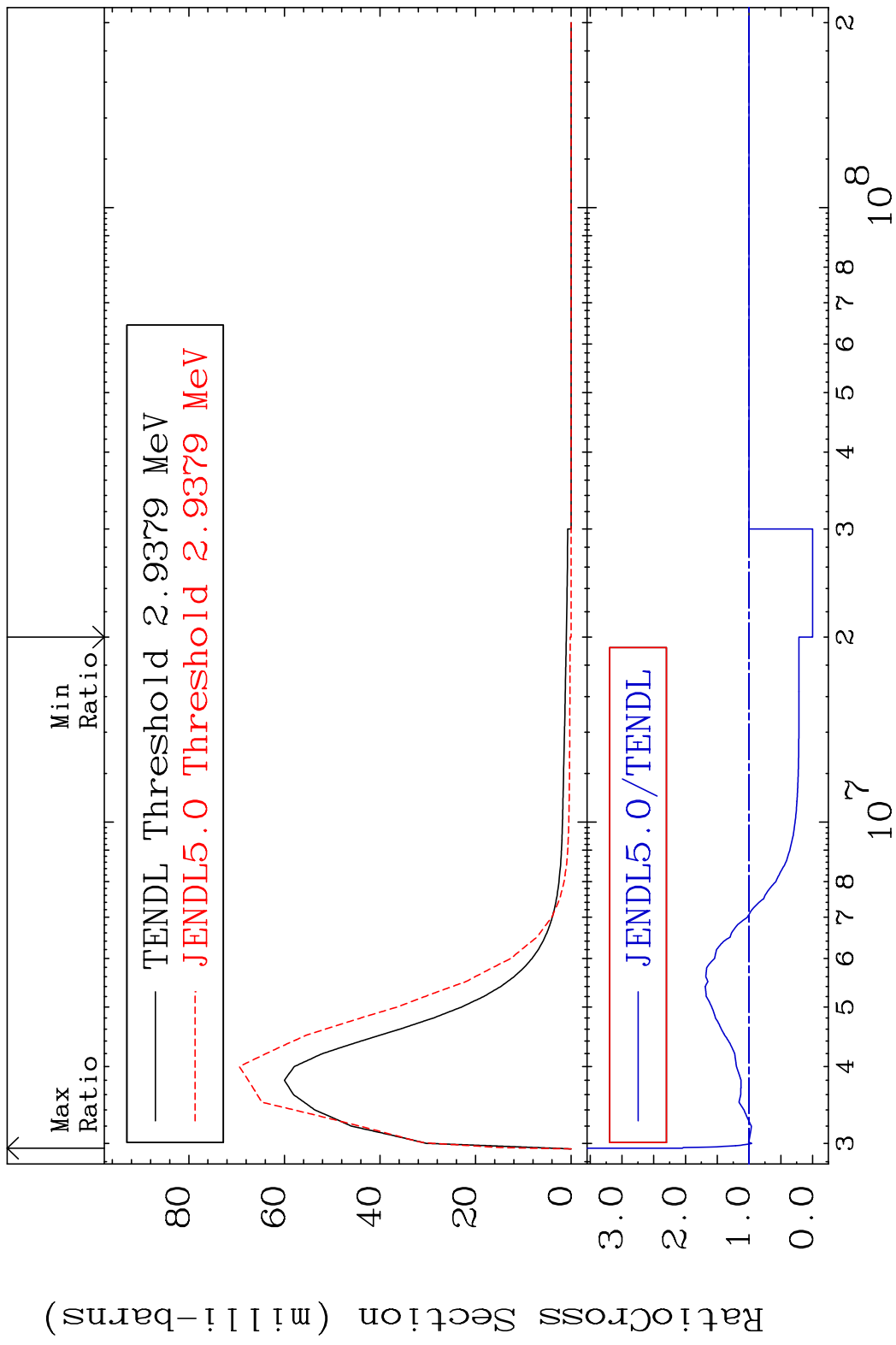
MAT 5649 MT= 67 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 133.0 %



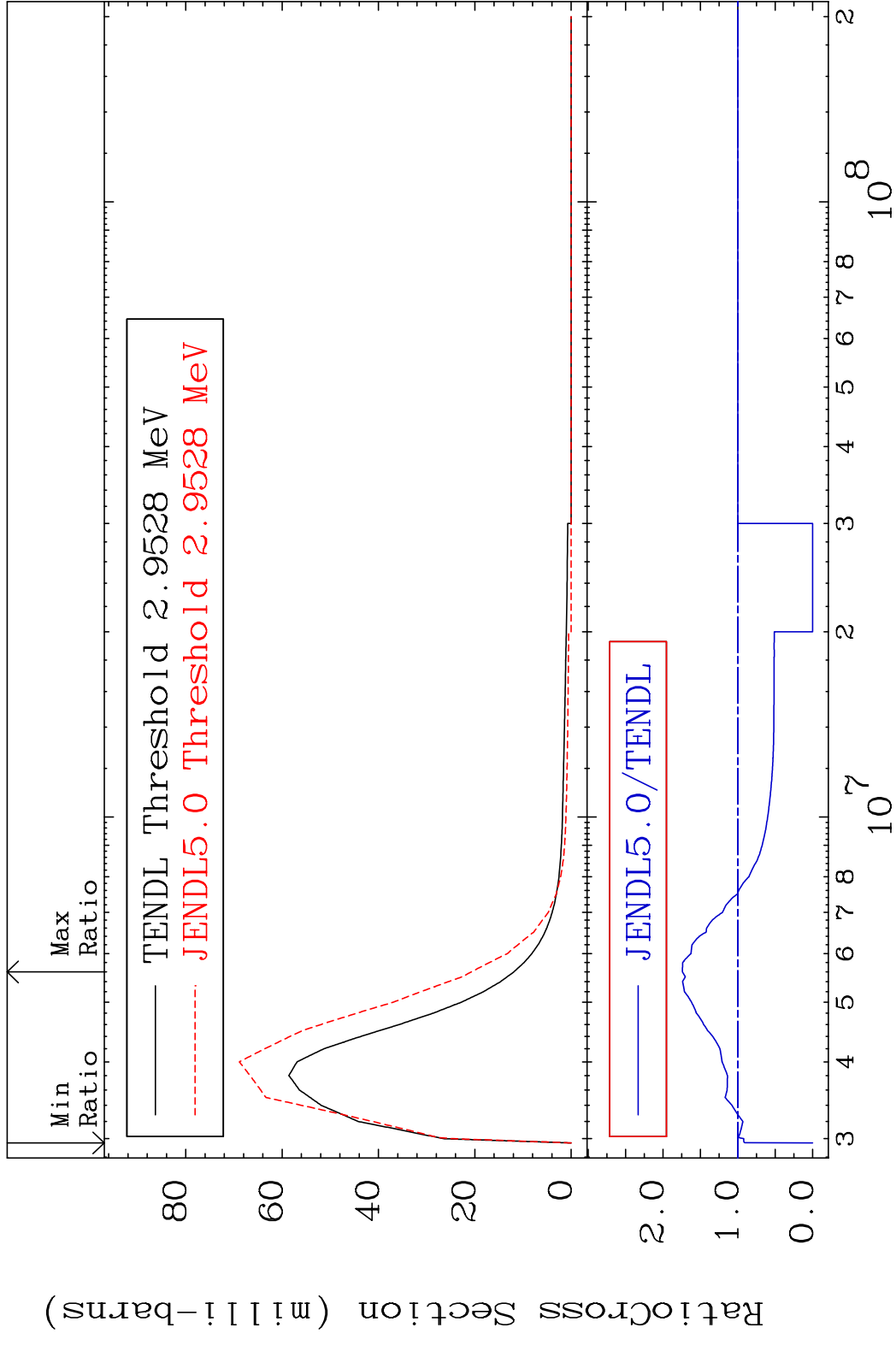
MAT 5649 MT= 68 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 232.8 %



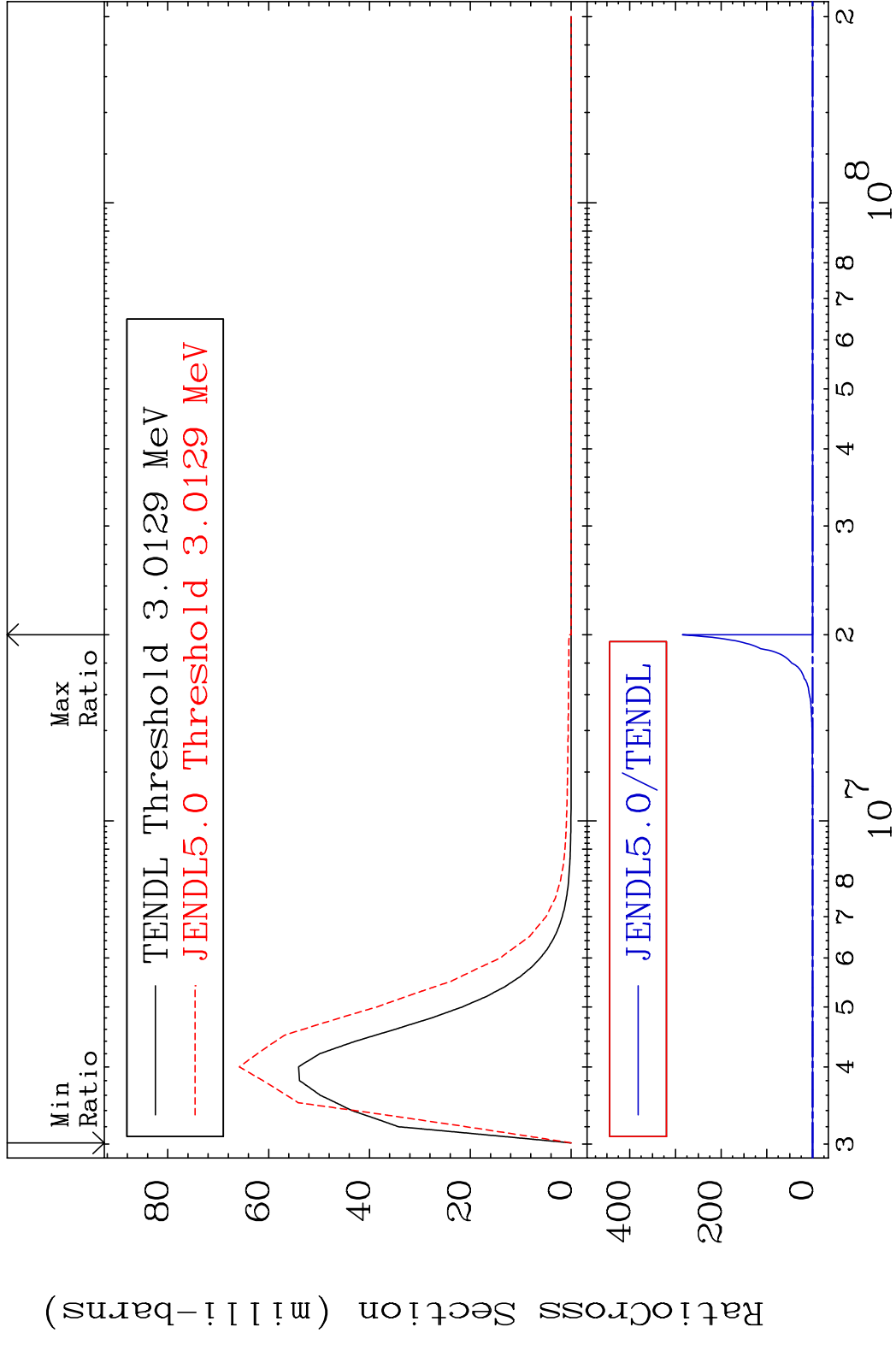
MAT 5649 MT= 69 (n, n') Level 56-Ba-138
 Cross Section -100.0 To 105.0 %



MAT 5649 MT= 70 (n,n') Level 56-Ba-138
 Cross Section -100.0 To 74.19 %



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

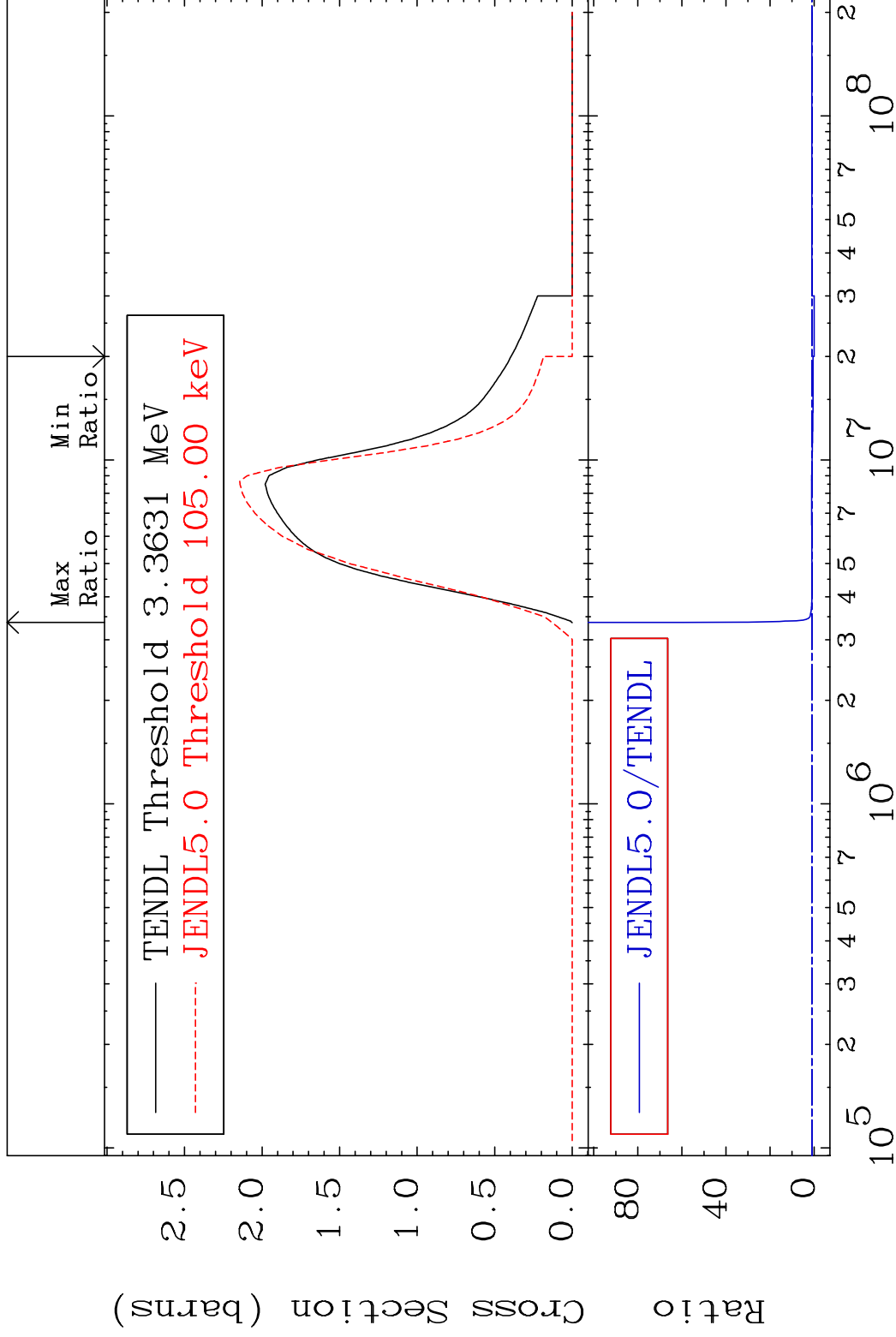


MAT 5649

(n,n') Continuum

56-Ba-138

Cross Section -100.0 To 5819. %



32

Incident Energy (eV)

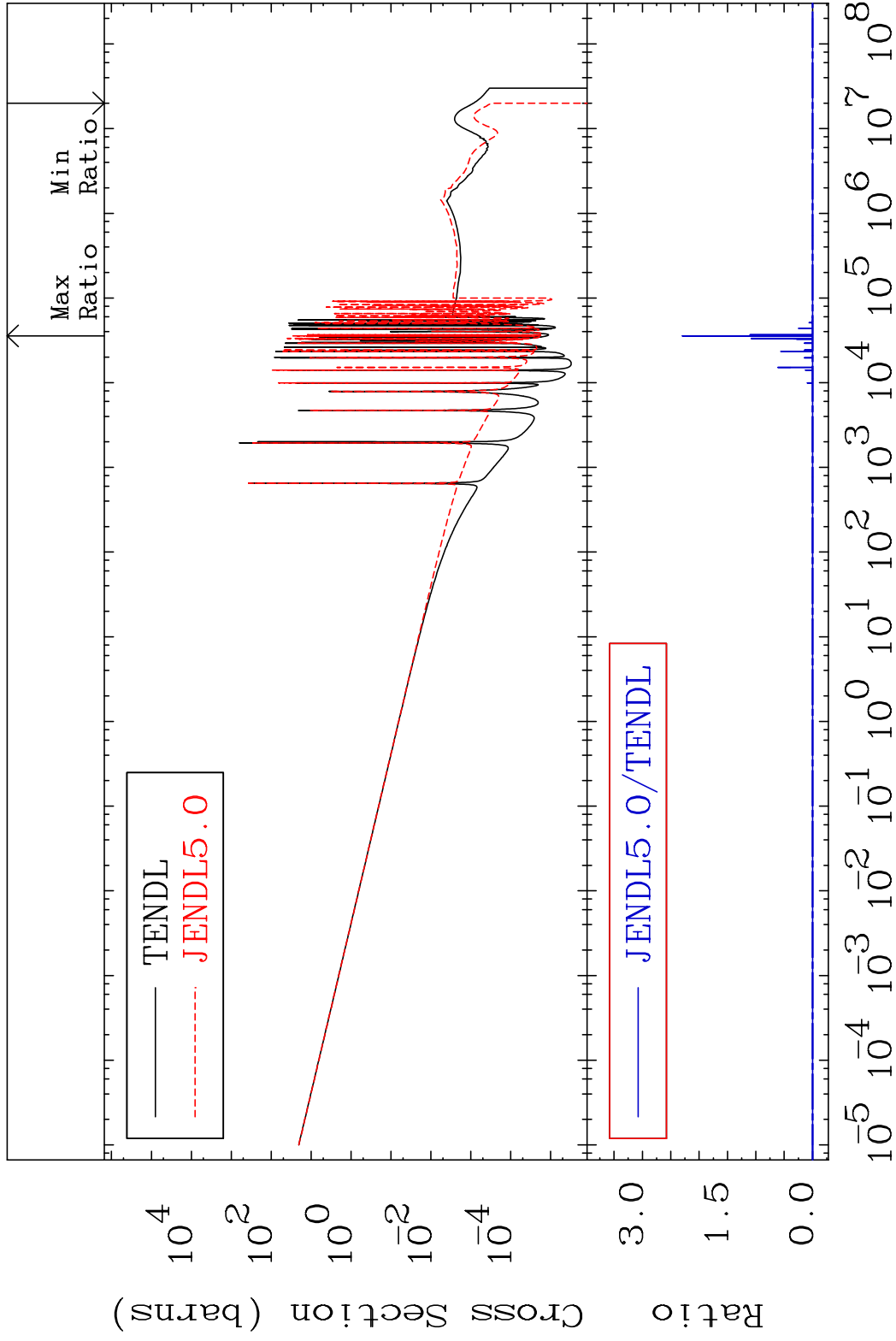
56-Ba-138

MAT 5649

(n, γ)

56-Ba-138

Cross Section -100.0 To 9999. %



33

Incident Energy (eV)

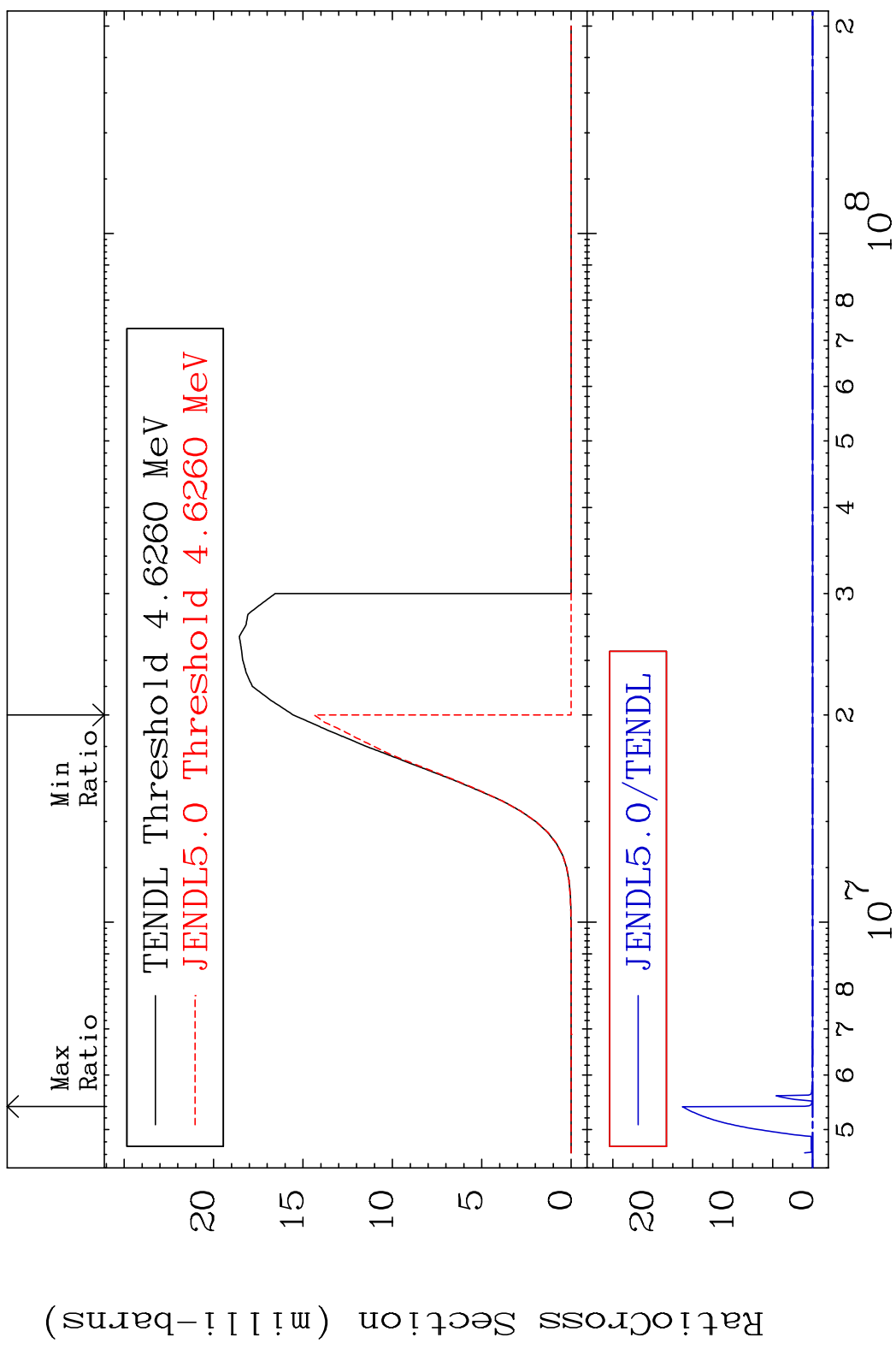
56-Ba-138

MAT 5649

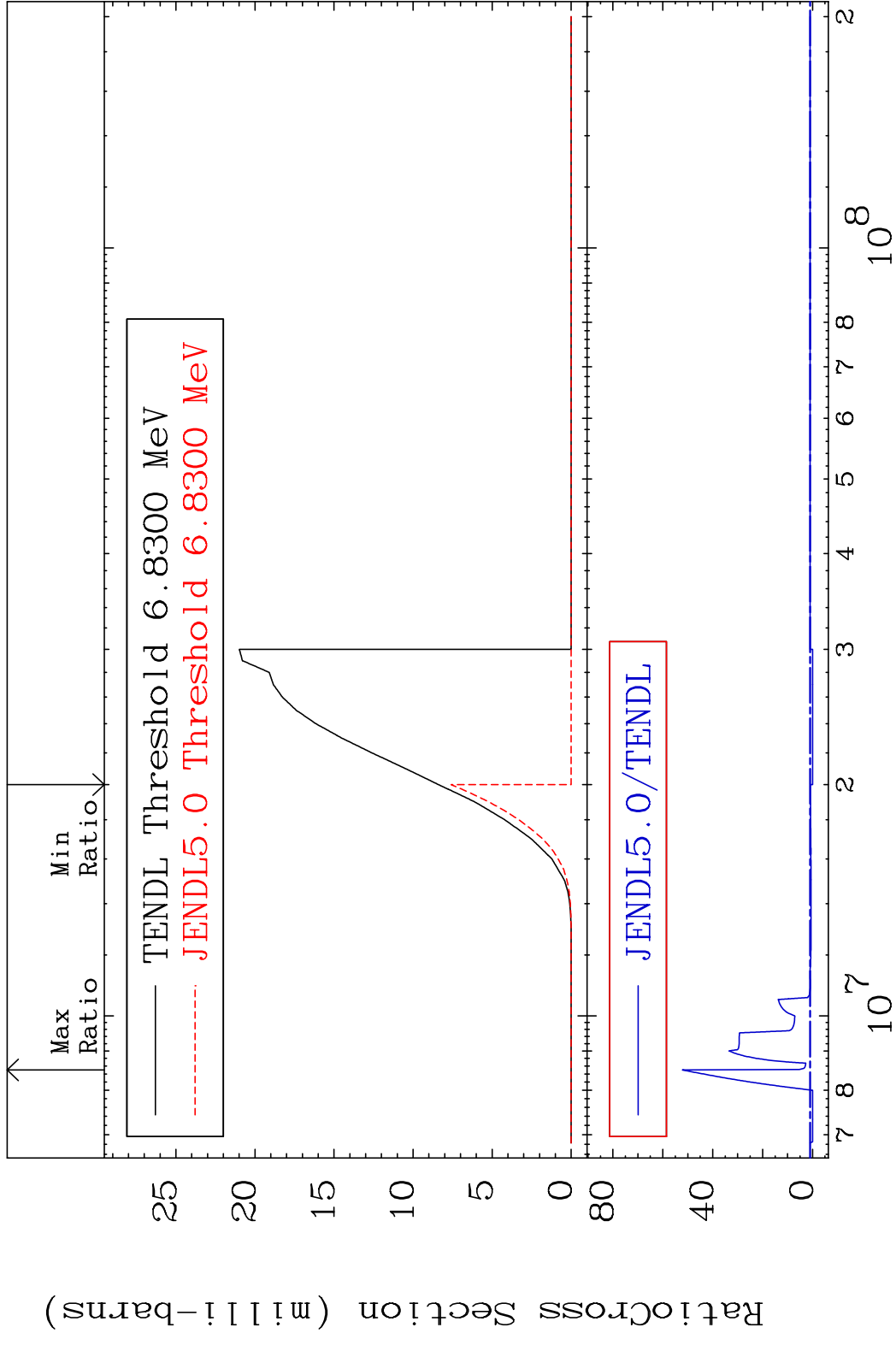
(n, p)

56-Ba-138

Cross Section -100.0 To 9999. %



MAT 5649 (n,d) 56-Ba-138
 Cross Section -100.0 To 5117. %

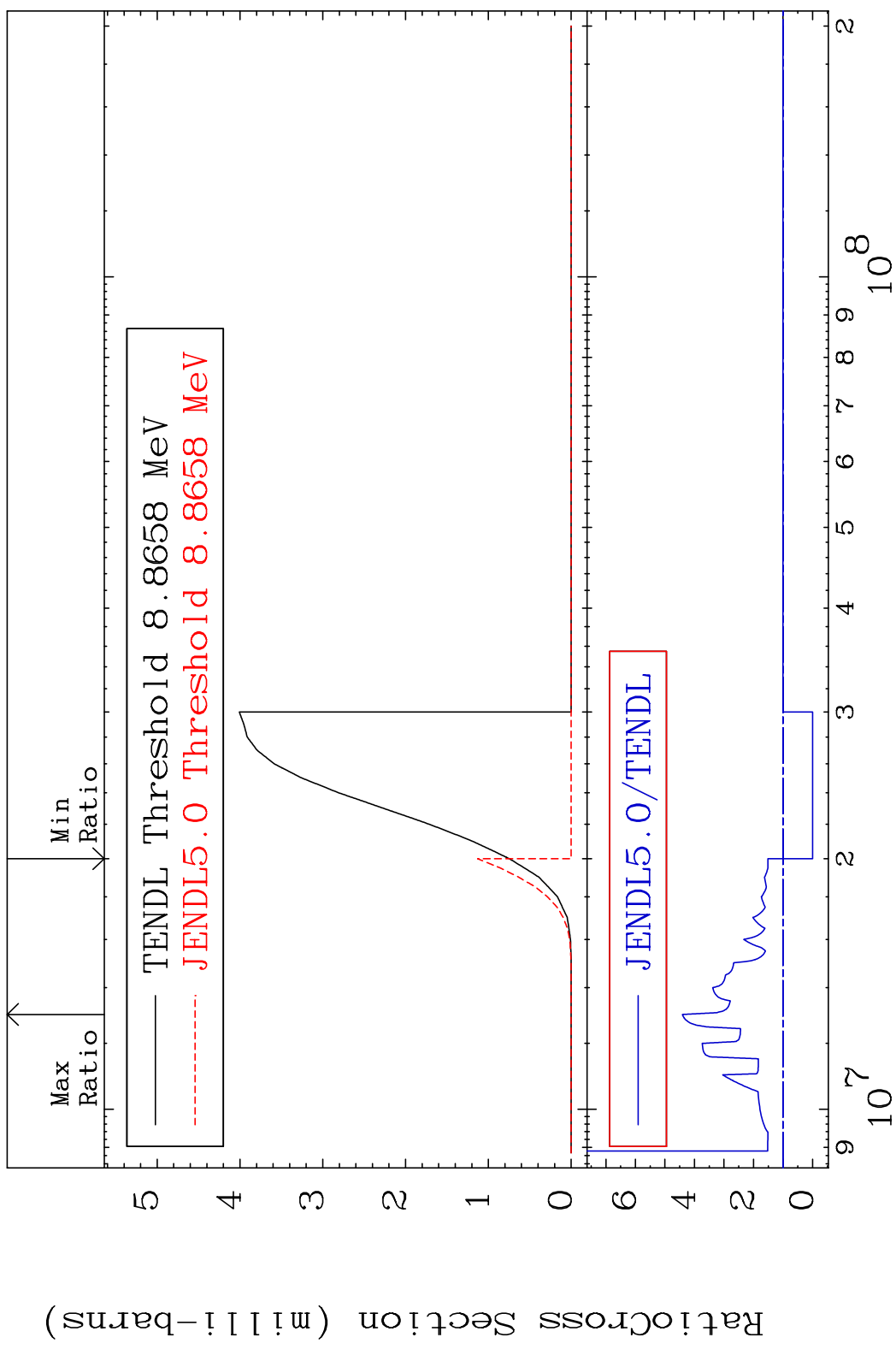


MAT 5649

(n, t)

56-Ba-138

Cross Section -100.0 To 341.0 %



36

Incident Energy (eV)

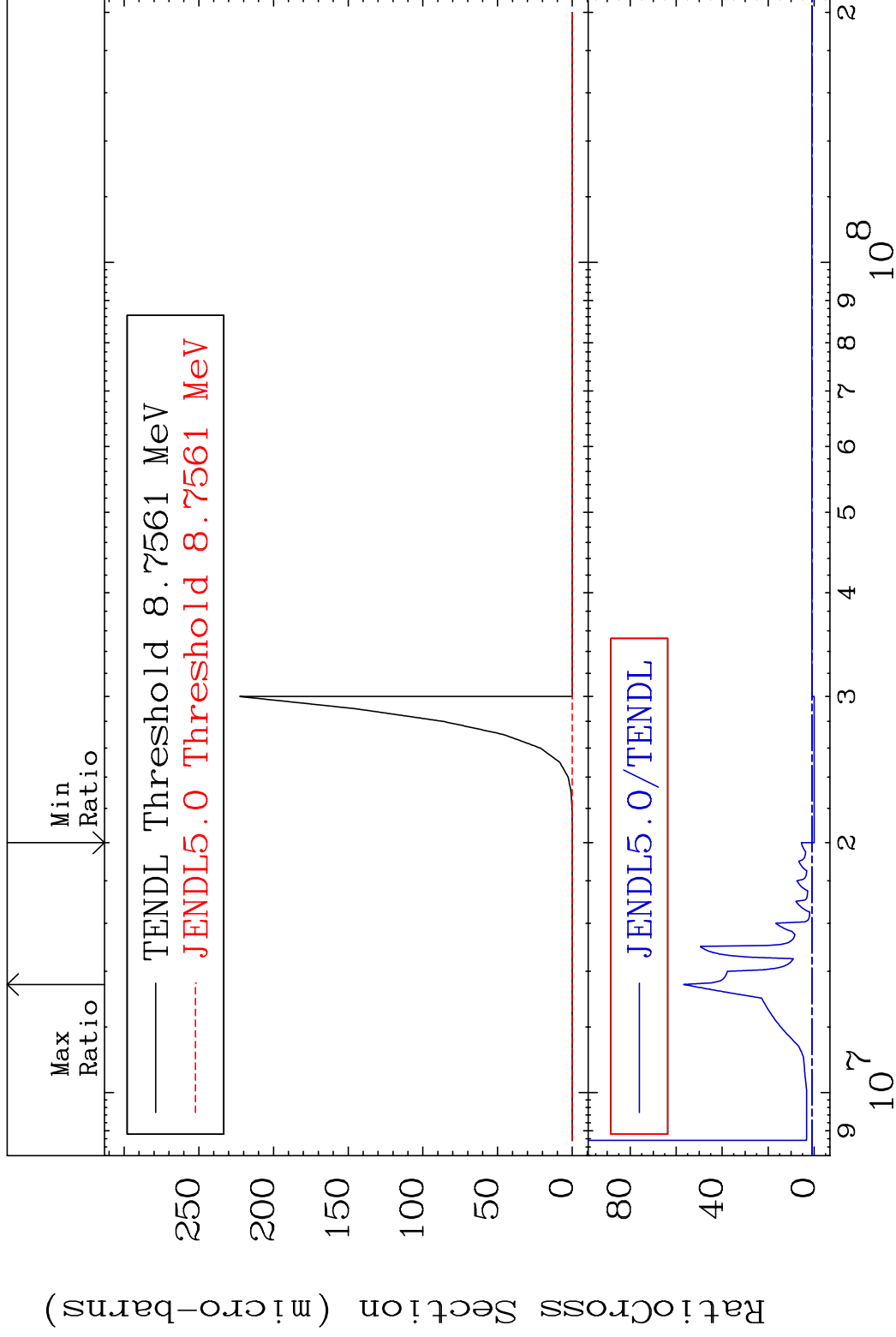
56-Ba-138

MAT 5649

(n, He-3)

56-Ba-138

Cross Section -100.0 To 5575. %



37

Incident Energy (eV)

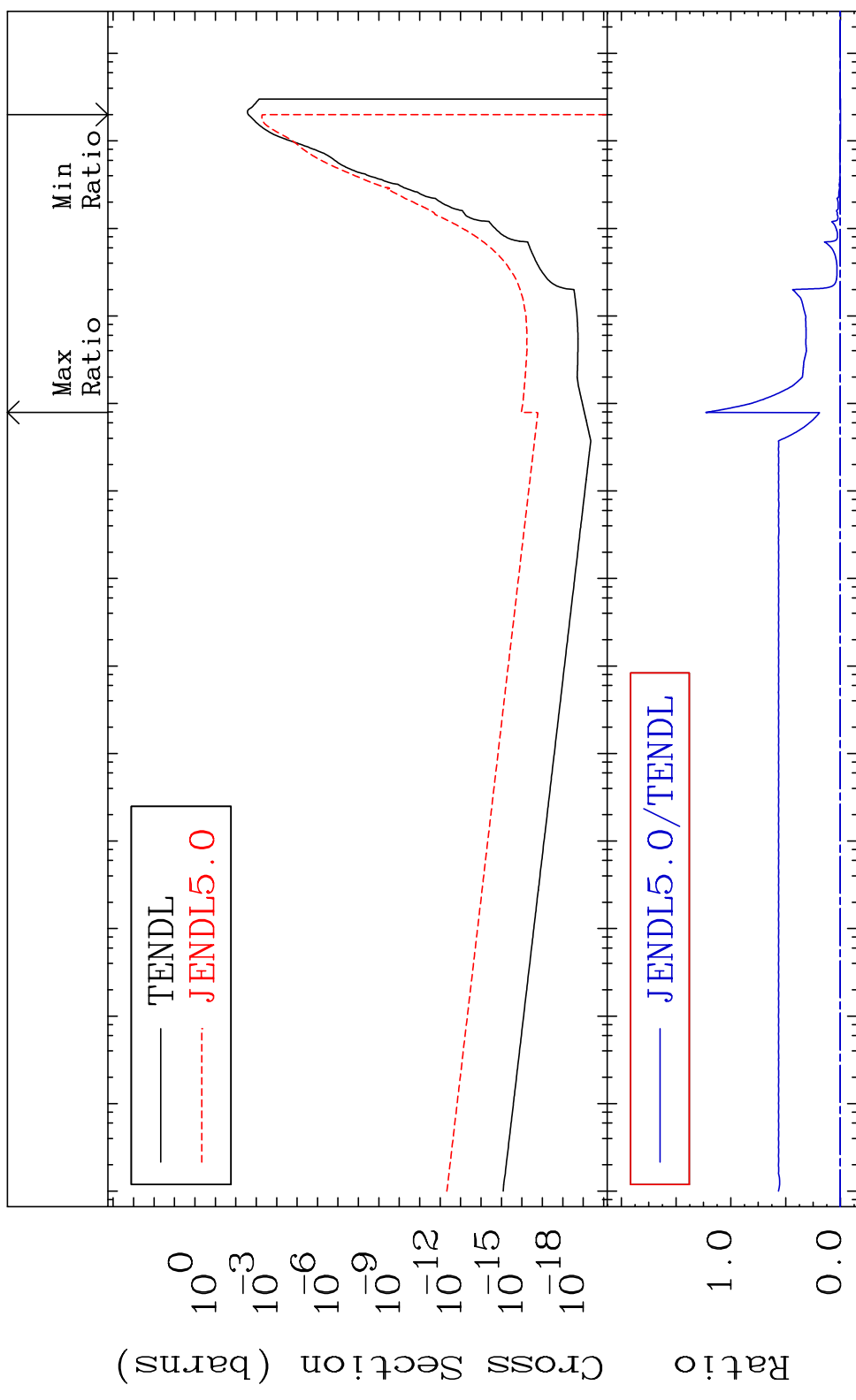
56-Ba-138

MAT 5649

(n, α)

56-Ba-138

Cross Section -100.0 To 9999. %

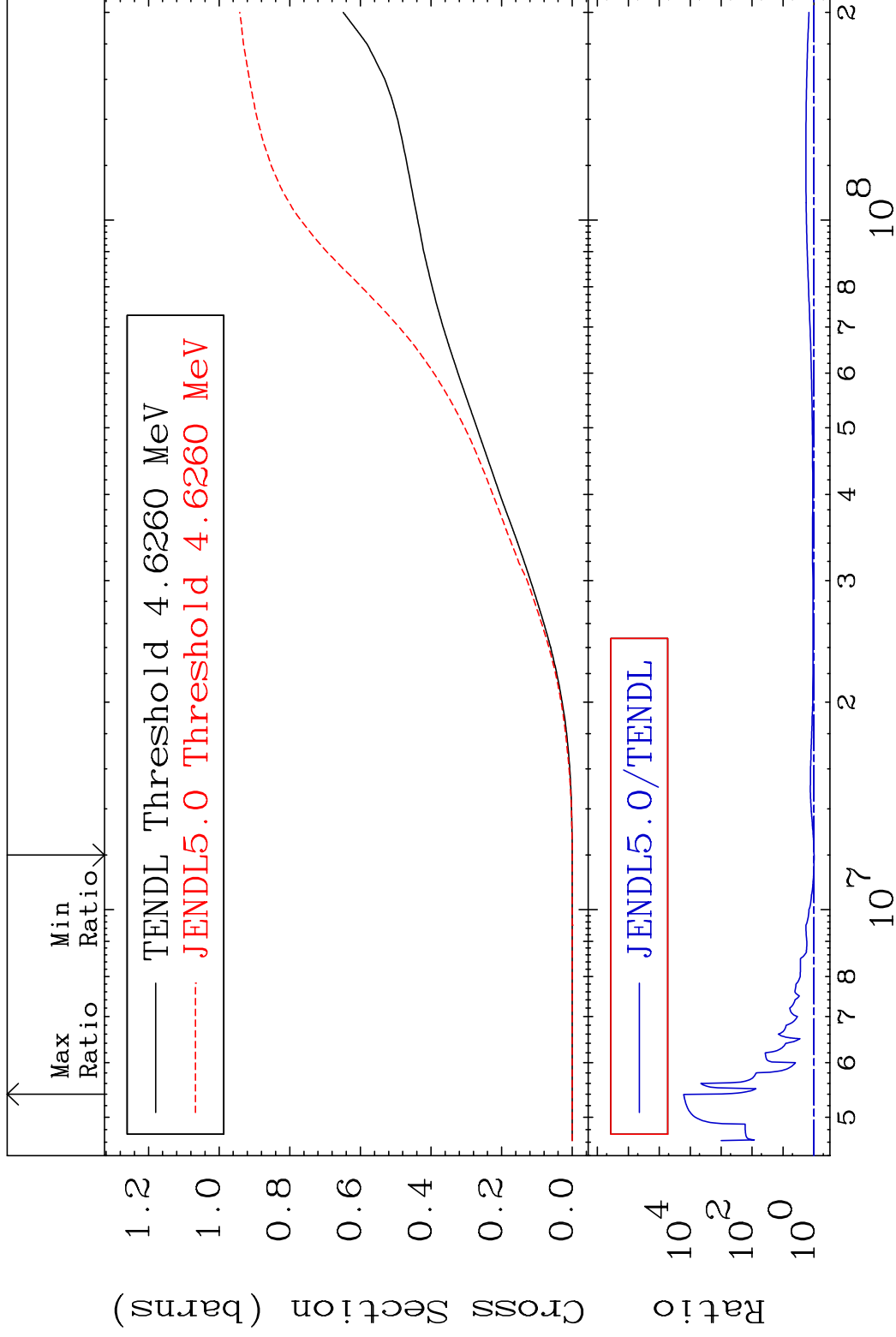


MAT 5649

Hydrogen Production

56-Ba-138

Cross Section -0.984 To 9999. %

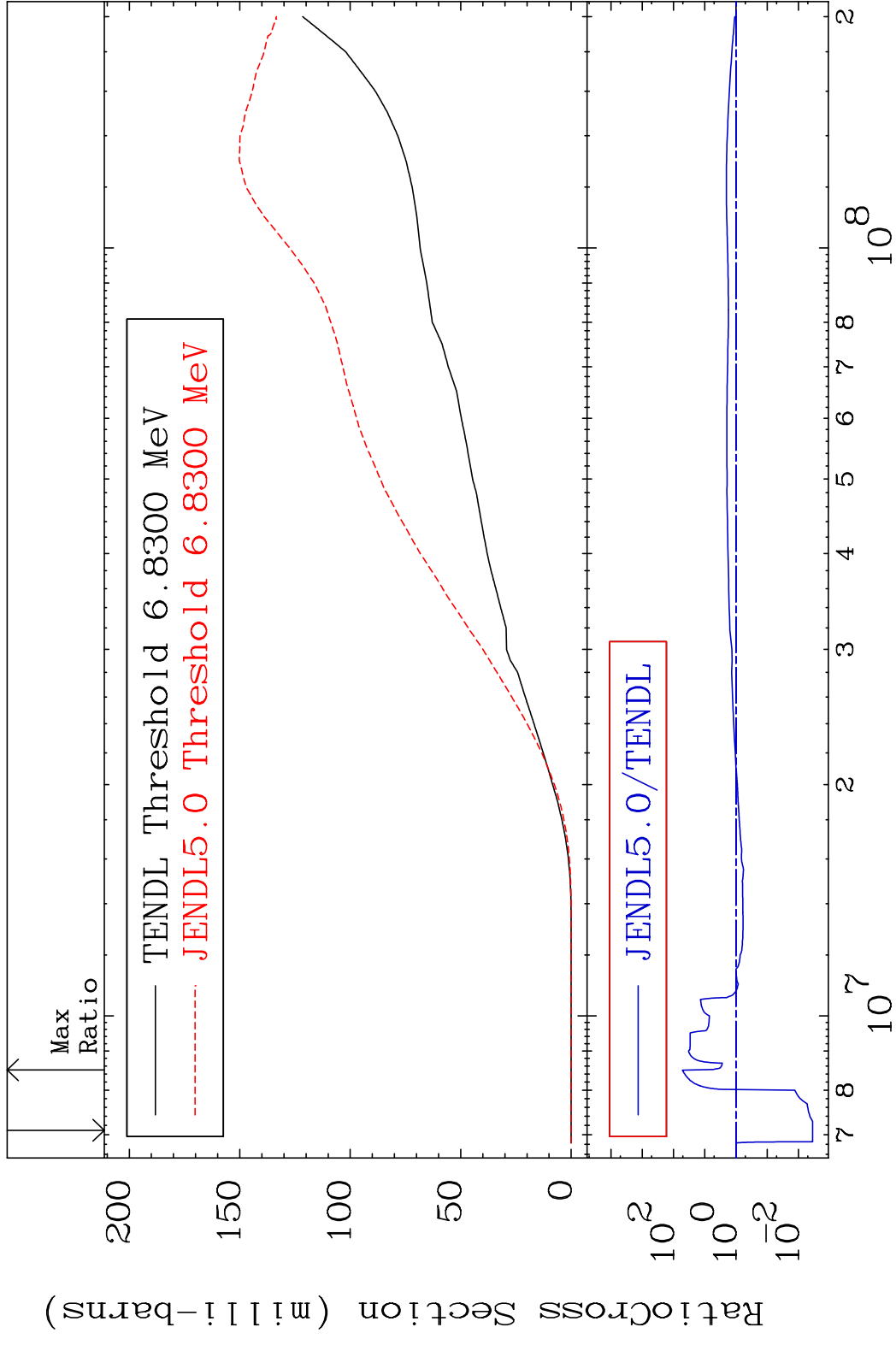


MAT 5649

Deuterium Production

56-Ba-138

Cross Section -99.65 To 5117. %



40

Incident Energy (eV)

56-Ba-138

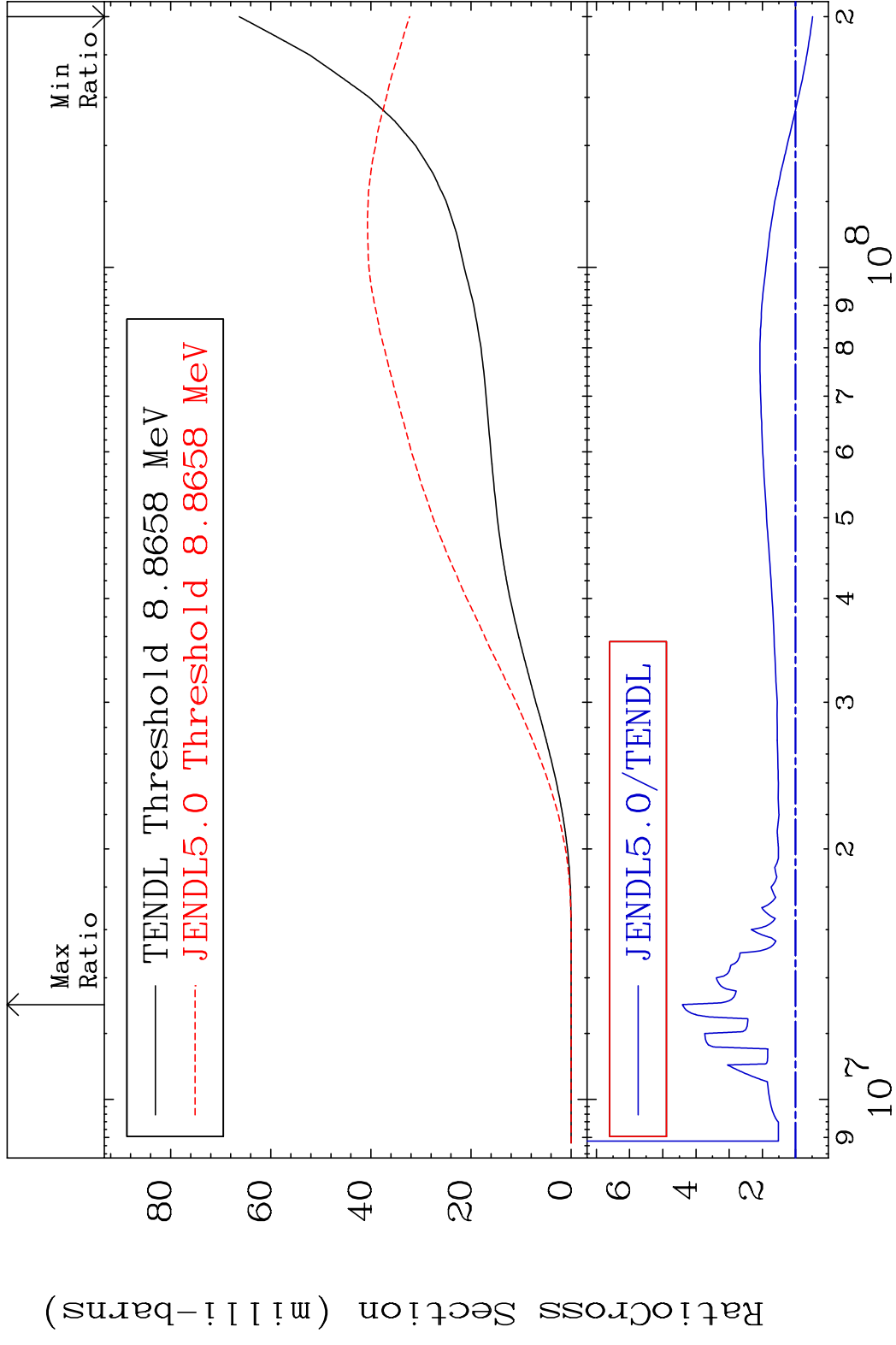
MAT 5649

Tritium Production

56-Ba-138

Cross Section

-51.32 To 341.0 %



41

Incident Energy (eV)

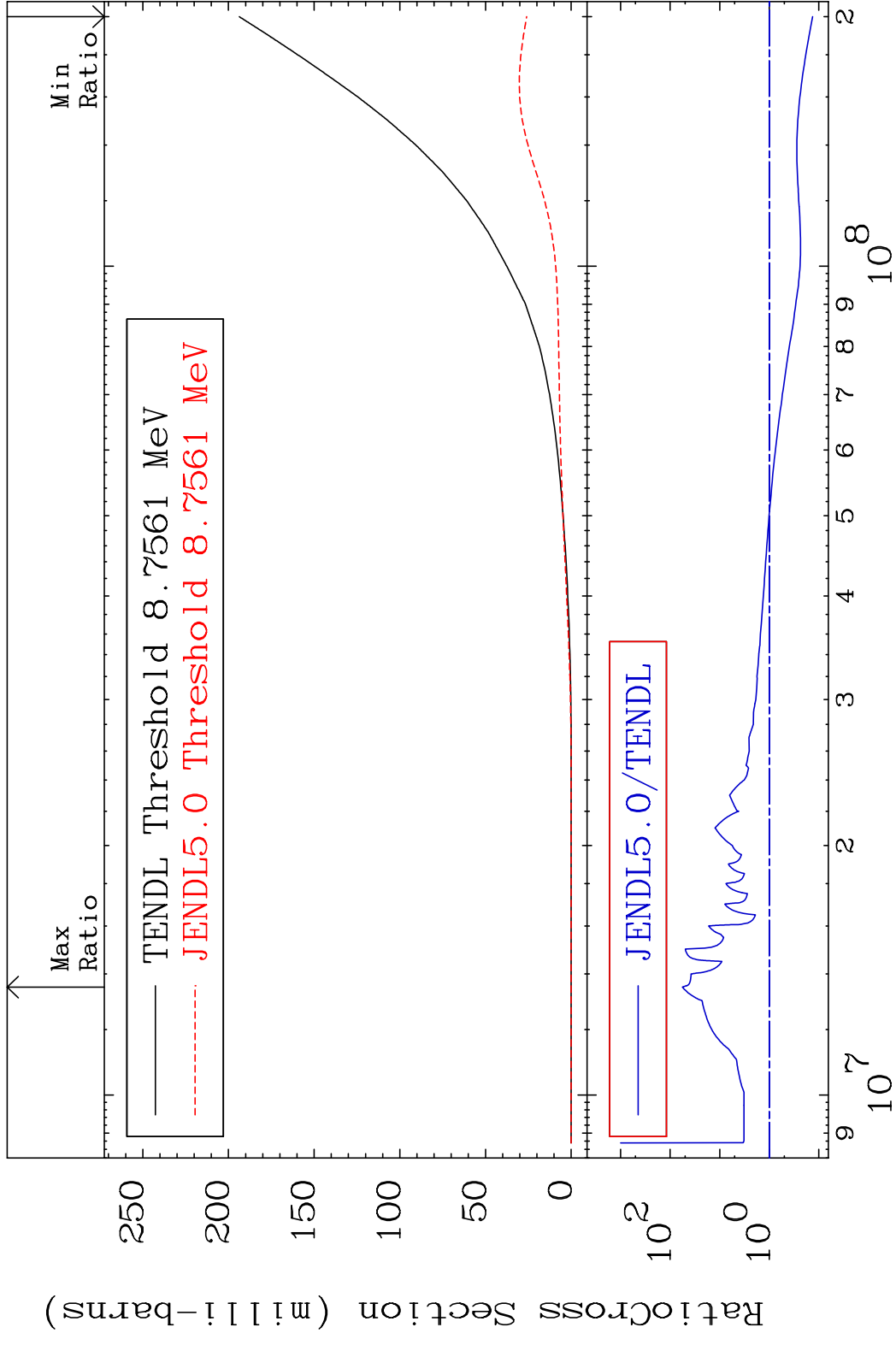
56-Ba-138

MAT 5649

He-3 Production

56-Ba-138

Cross Section -86.59 To 5575. %

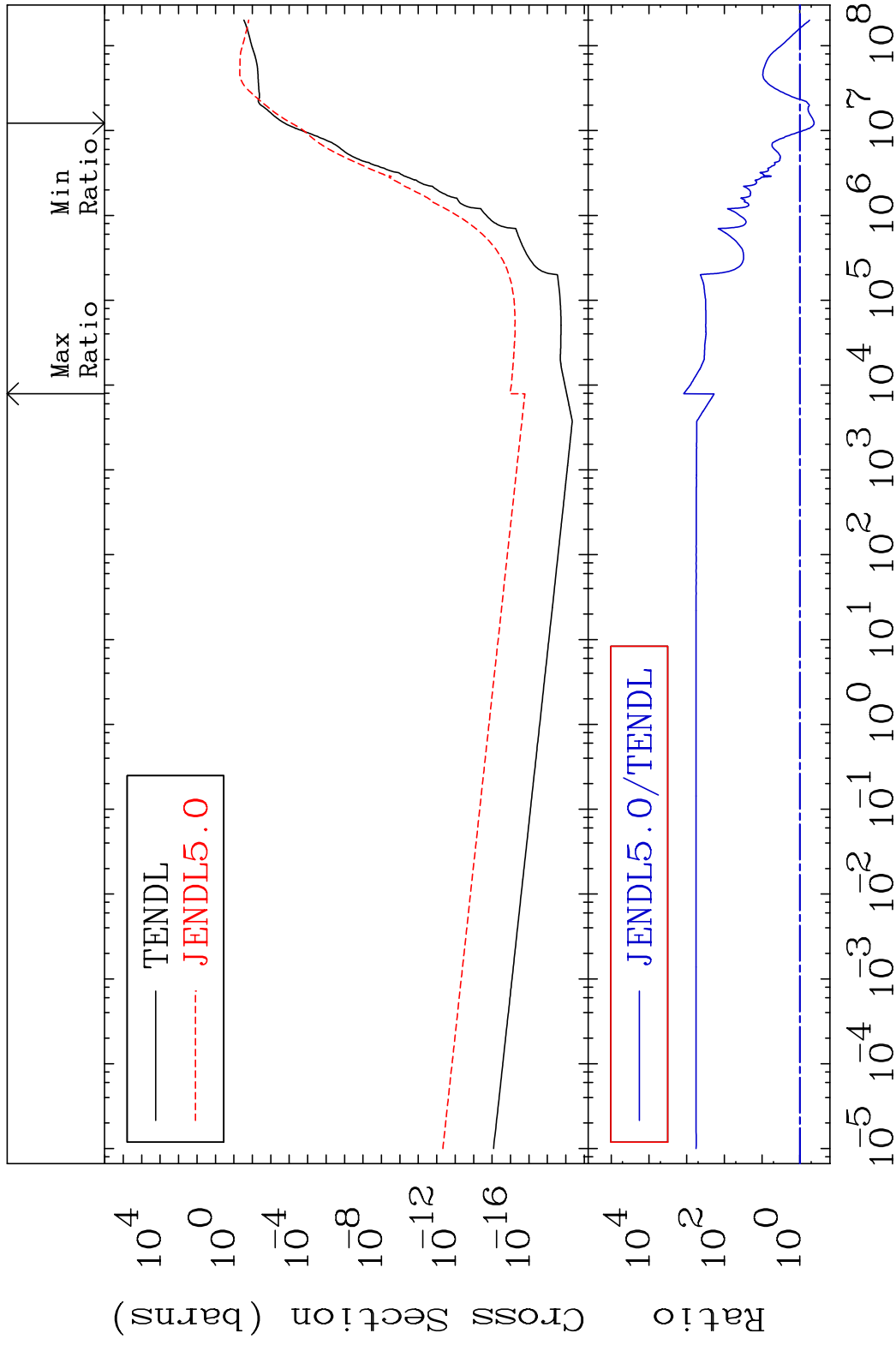


MAT 5649

He-4 Production

56-Ba-138

Cross Section -58.04 To 9999. %

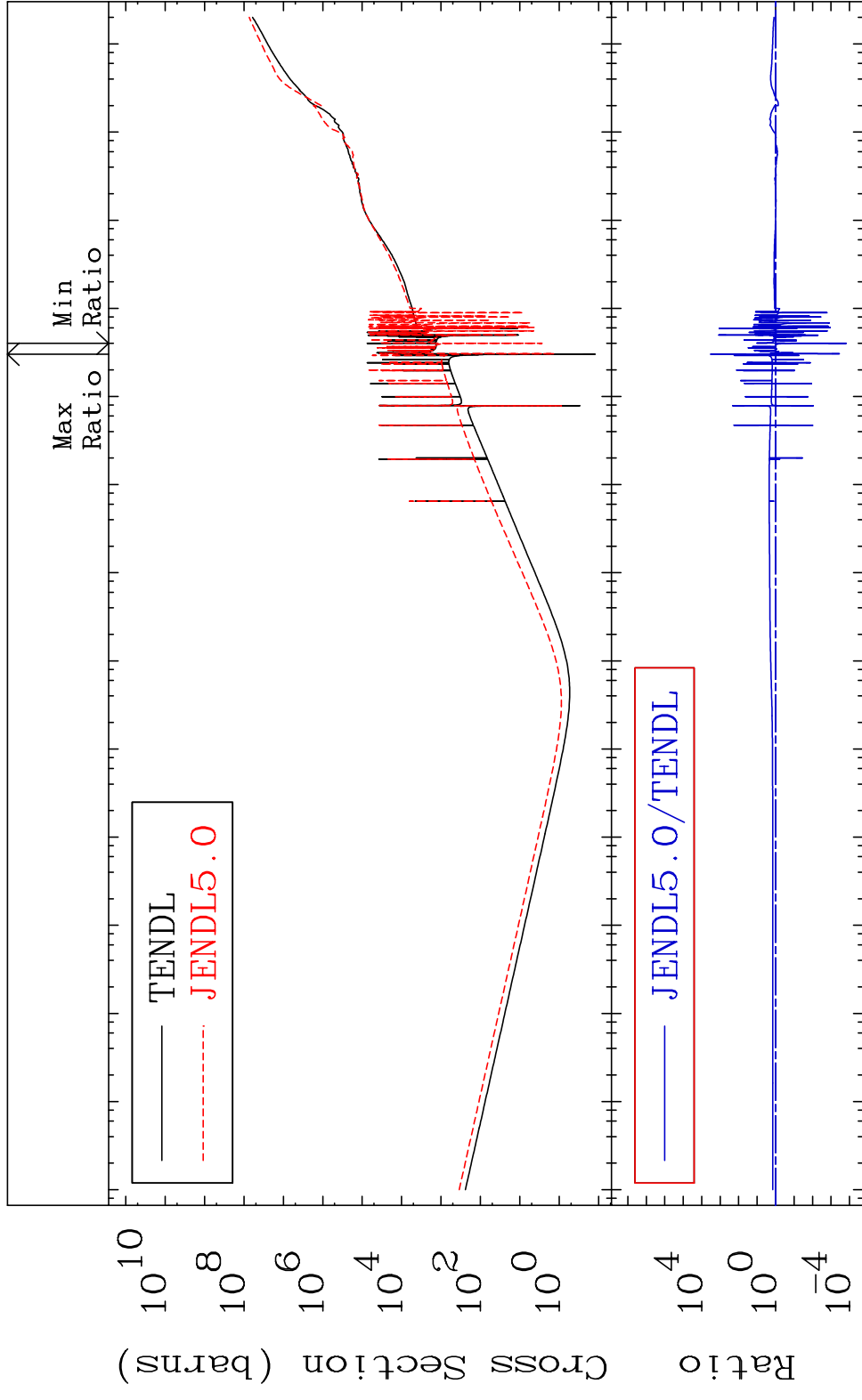


43

Incident Energy (eV)

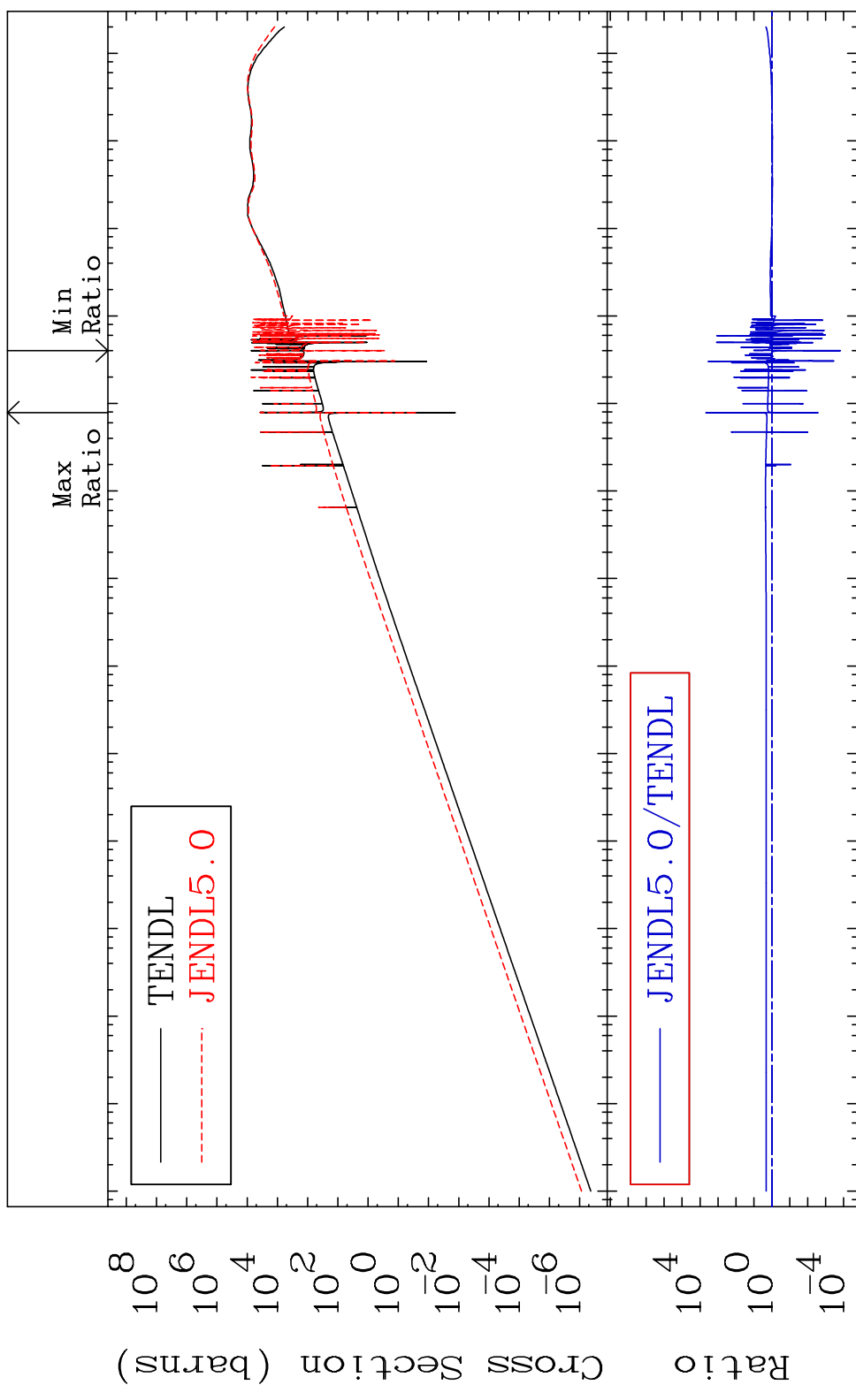
56-Ba-138

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



MAT 5649

Kerma elastic
Cross Section -99.99 To 9999. %
56-Ba-138

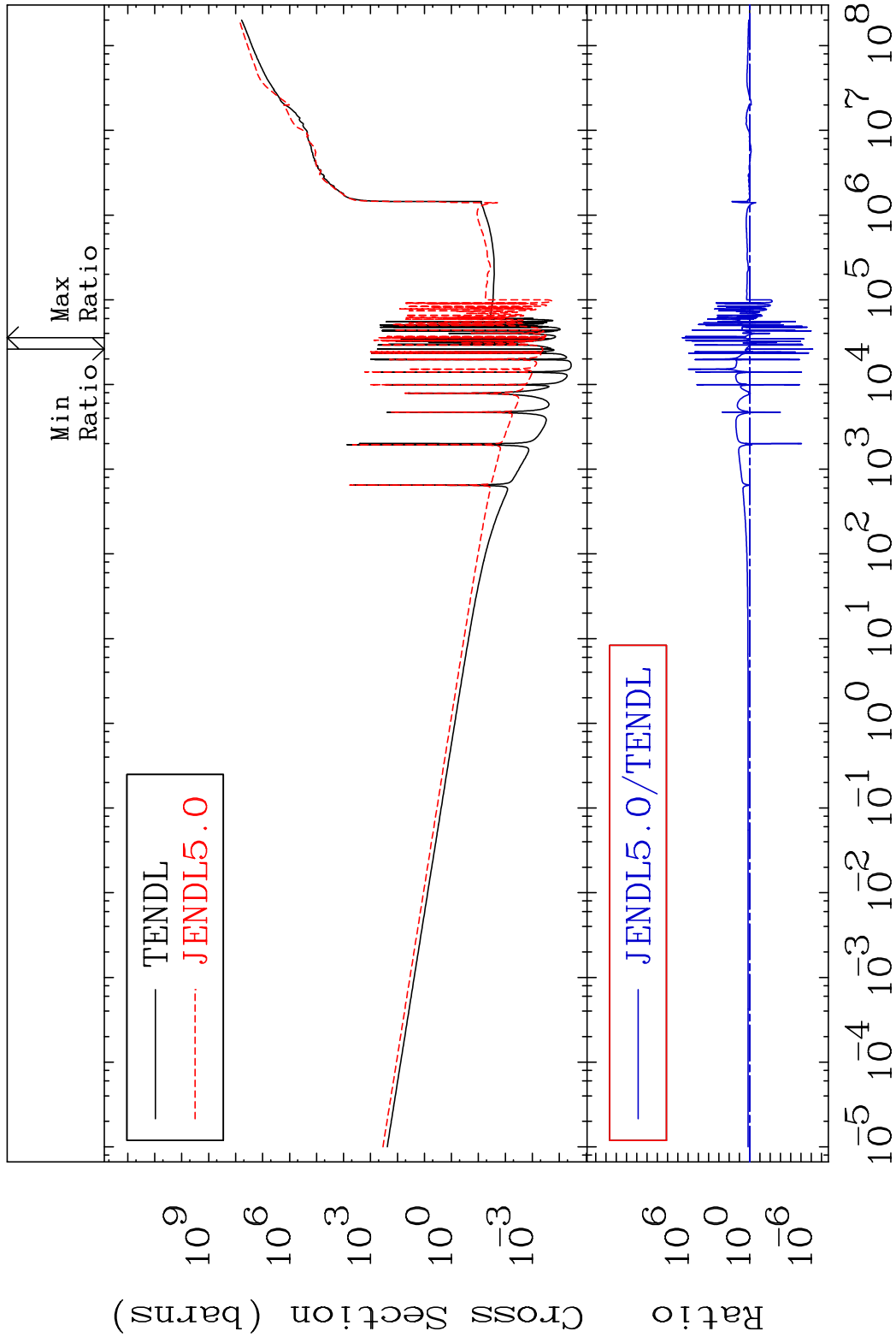


45

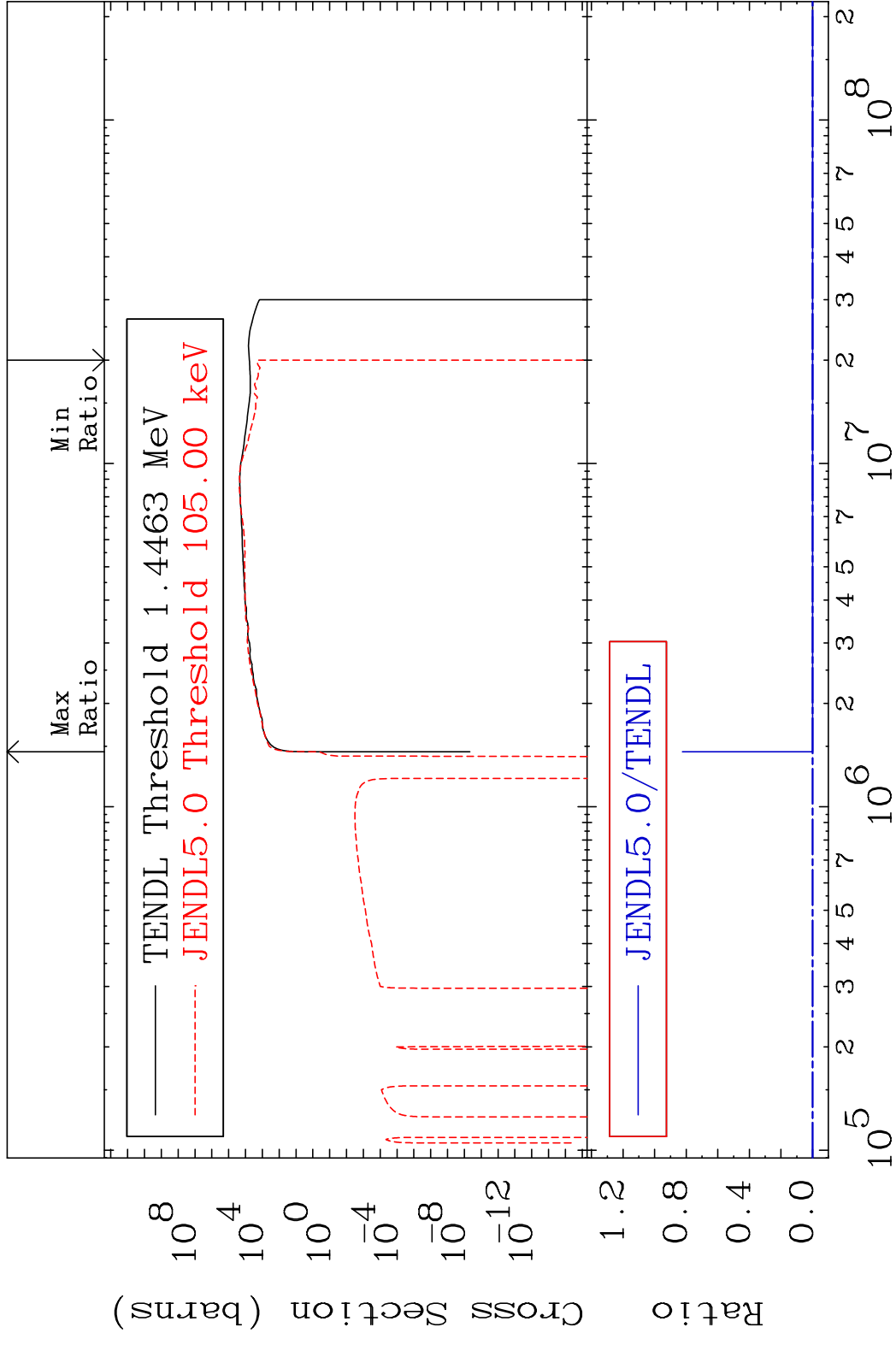
Incident Energy (eV)

56-Ba-138

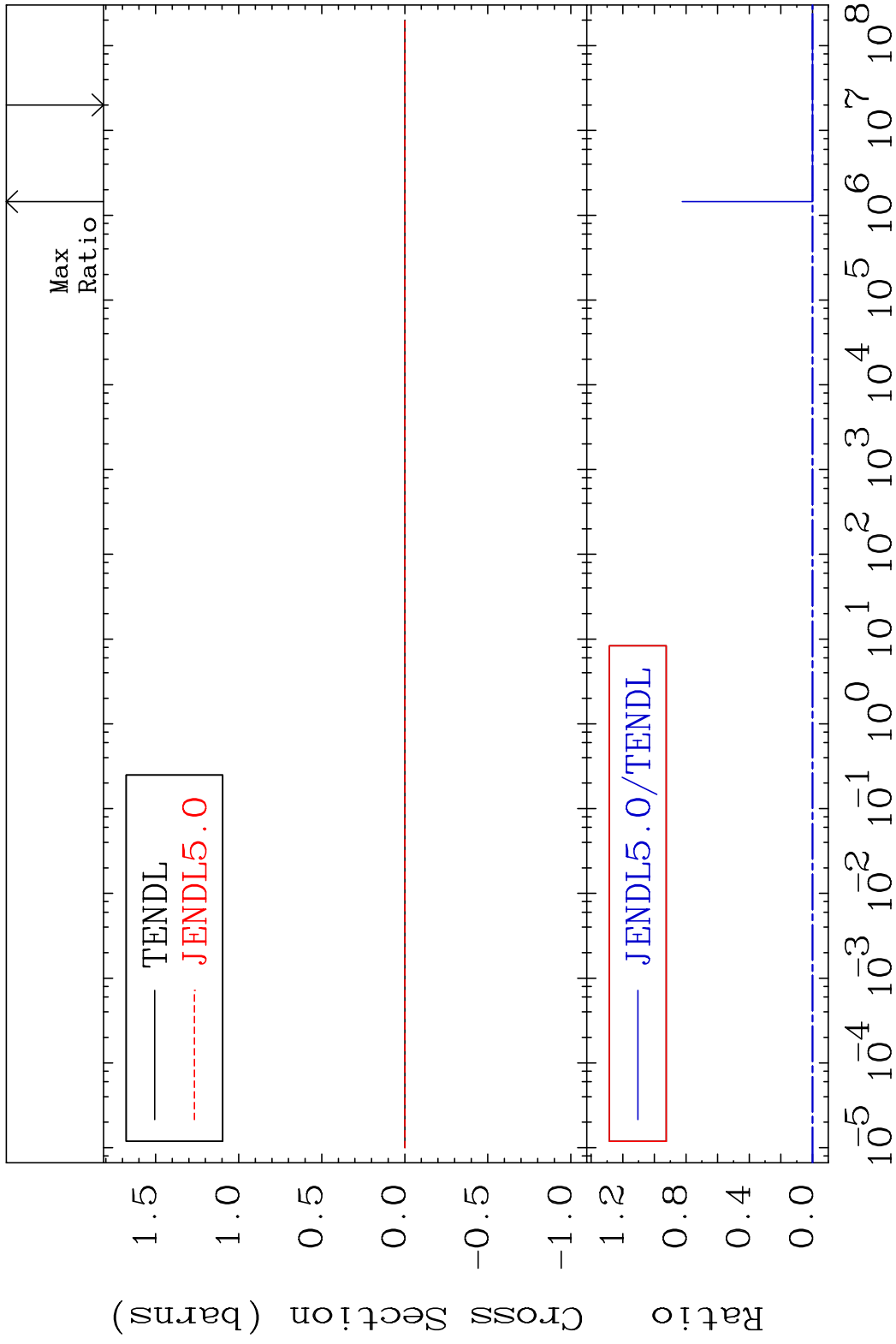
MAT 5649 Kerma non-elastic (all but mt2) 56-Ba-138
 Cross Section -100.0 To 9999. %



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



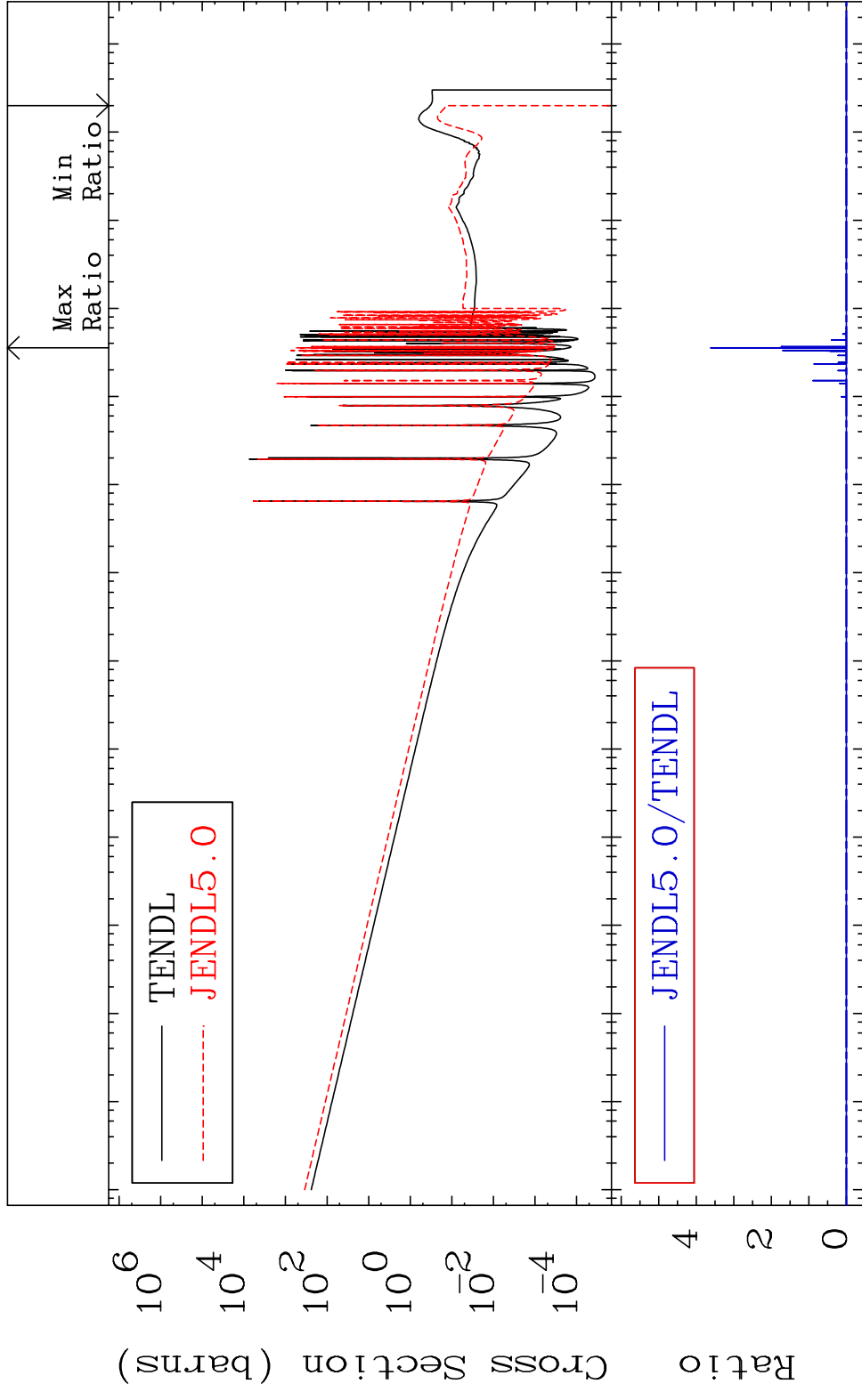
MAT 5649 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-138
 Cross Section -100.0 To 9999. %



MAT 5649

Kerma capture (mt102) 56-Ba-138

Cross Section -100.0 To 9999. %

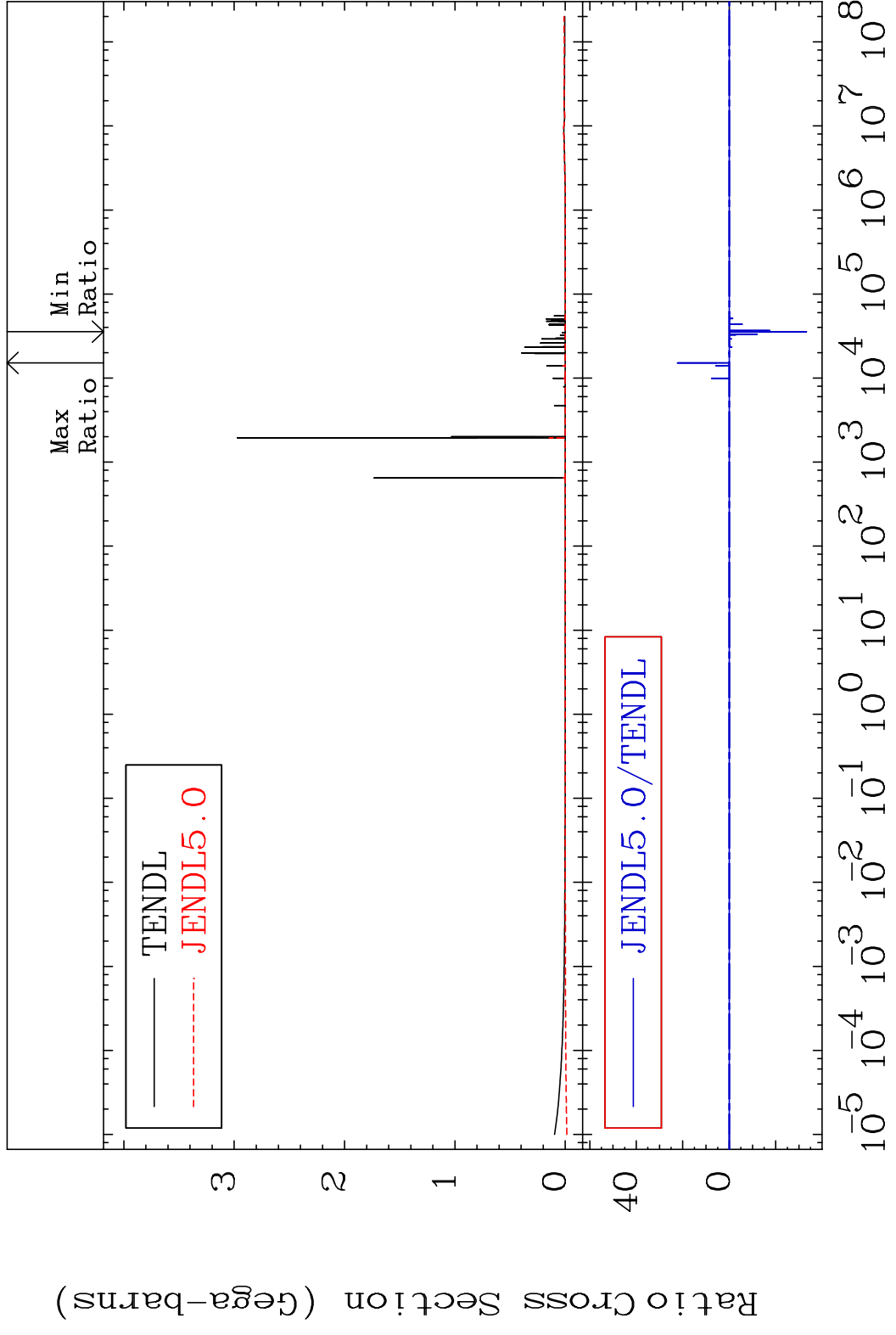


49

Incident Energy (eV)

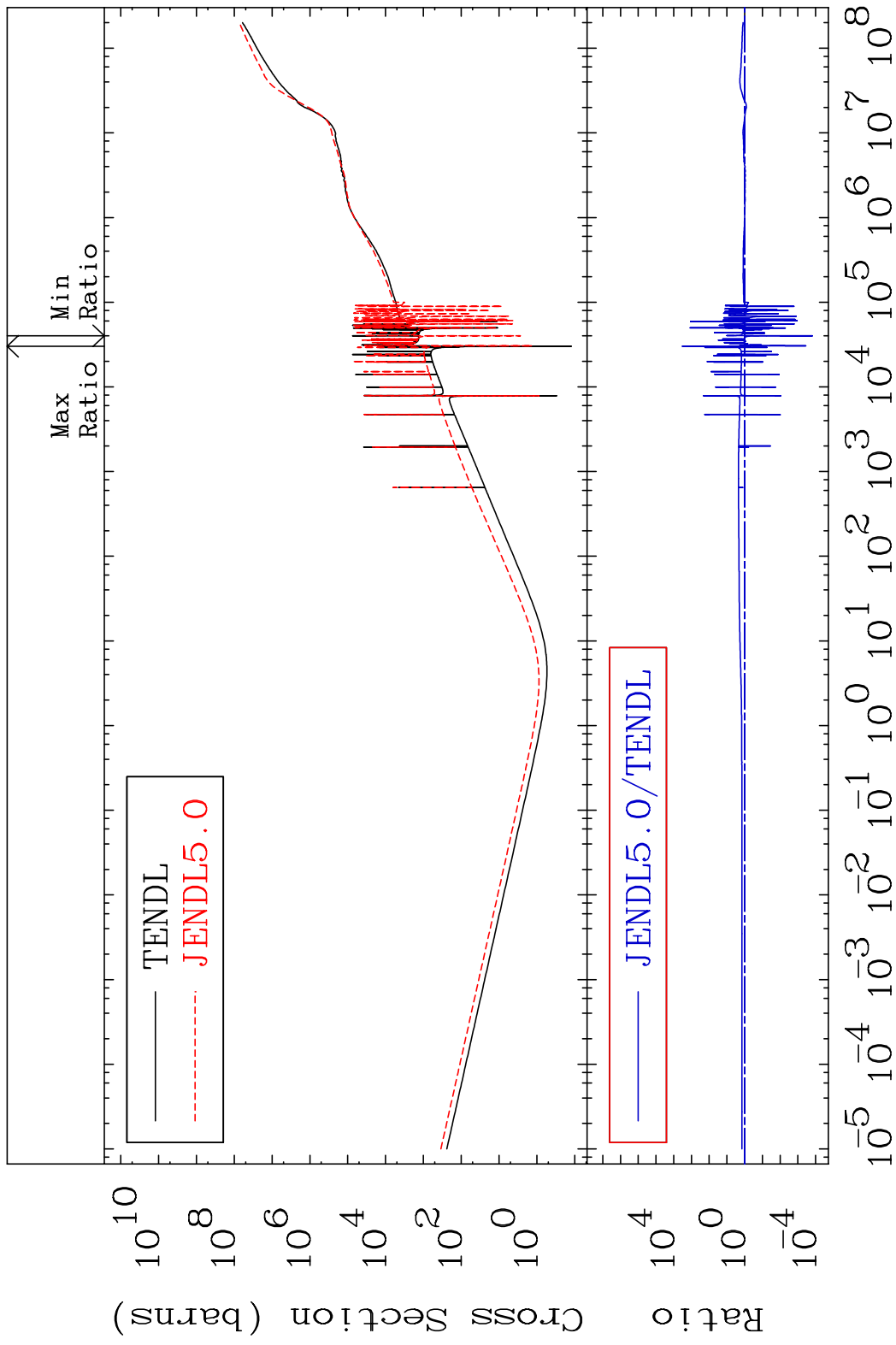
56-Ba-138

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



50 56-Ba-138

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

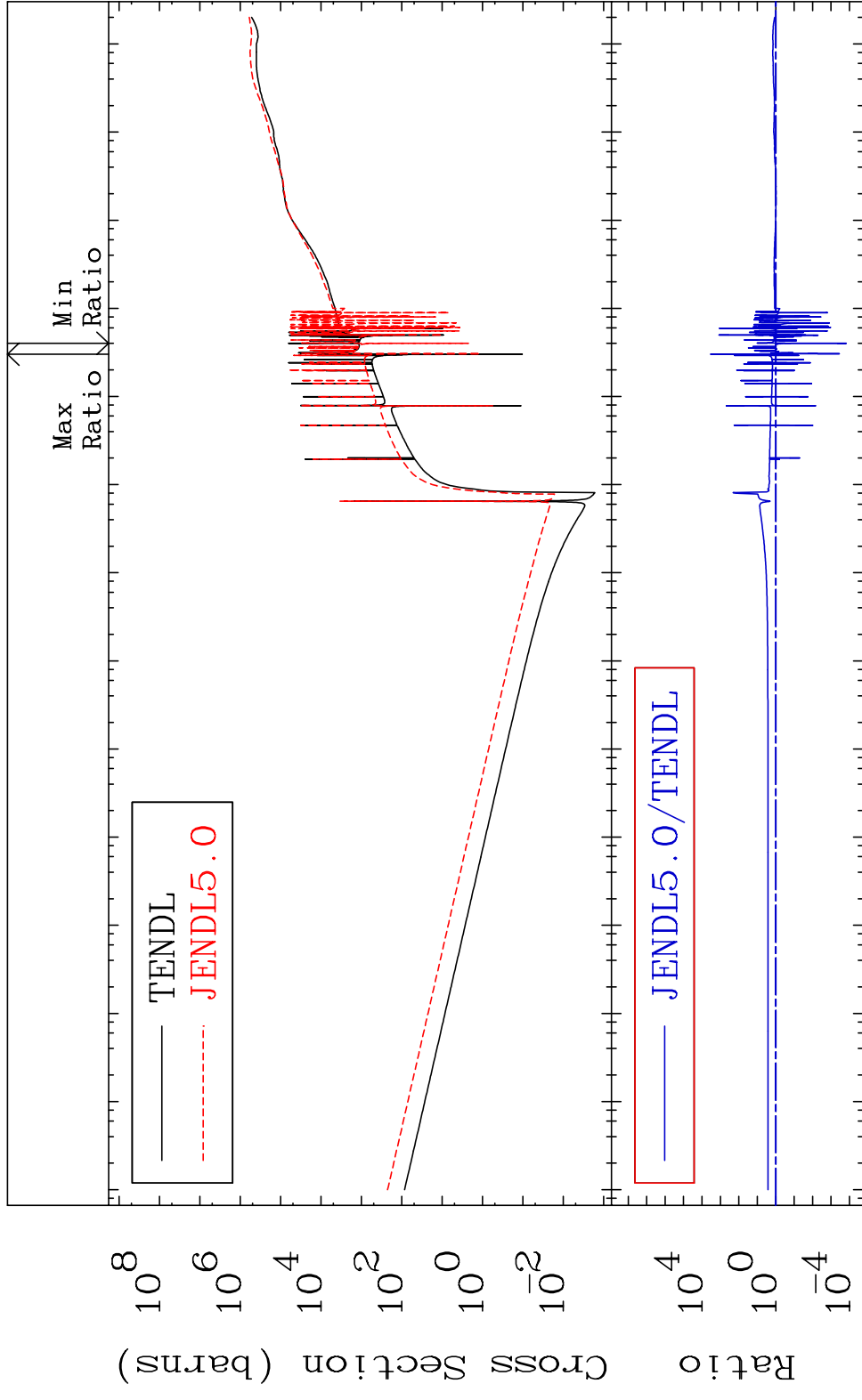


MAT 5649

Dpa total (eV-barns)

56-Ba-138

Cross Section -99.99 To 9999. %



52

Incident Energy (eV)

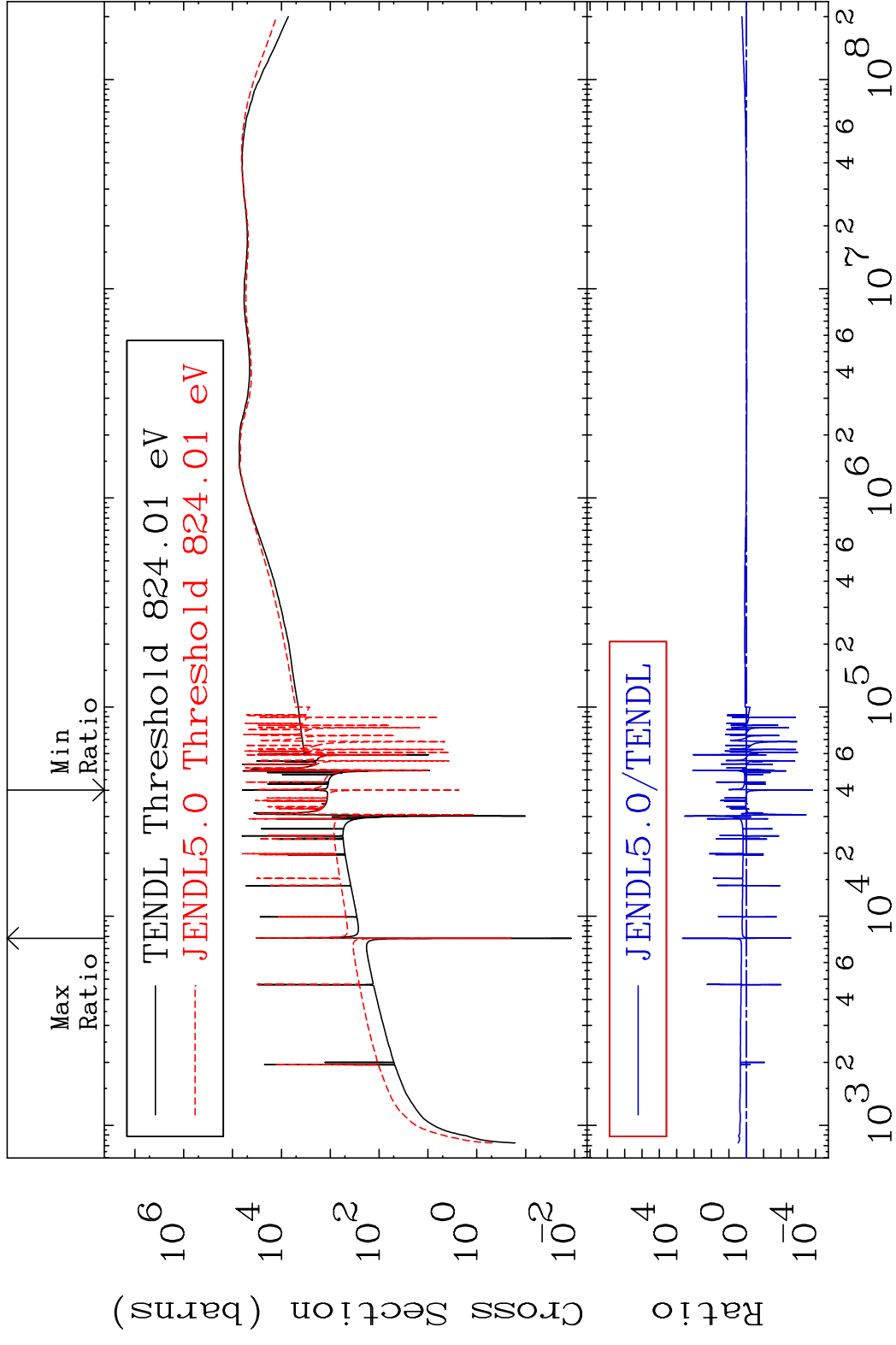
56-Ba-138

MAT 5649

Dpa elastic (mt2)

56-Ba-138

Cross Section -99.99 To 9999. %

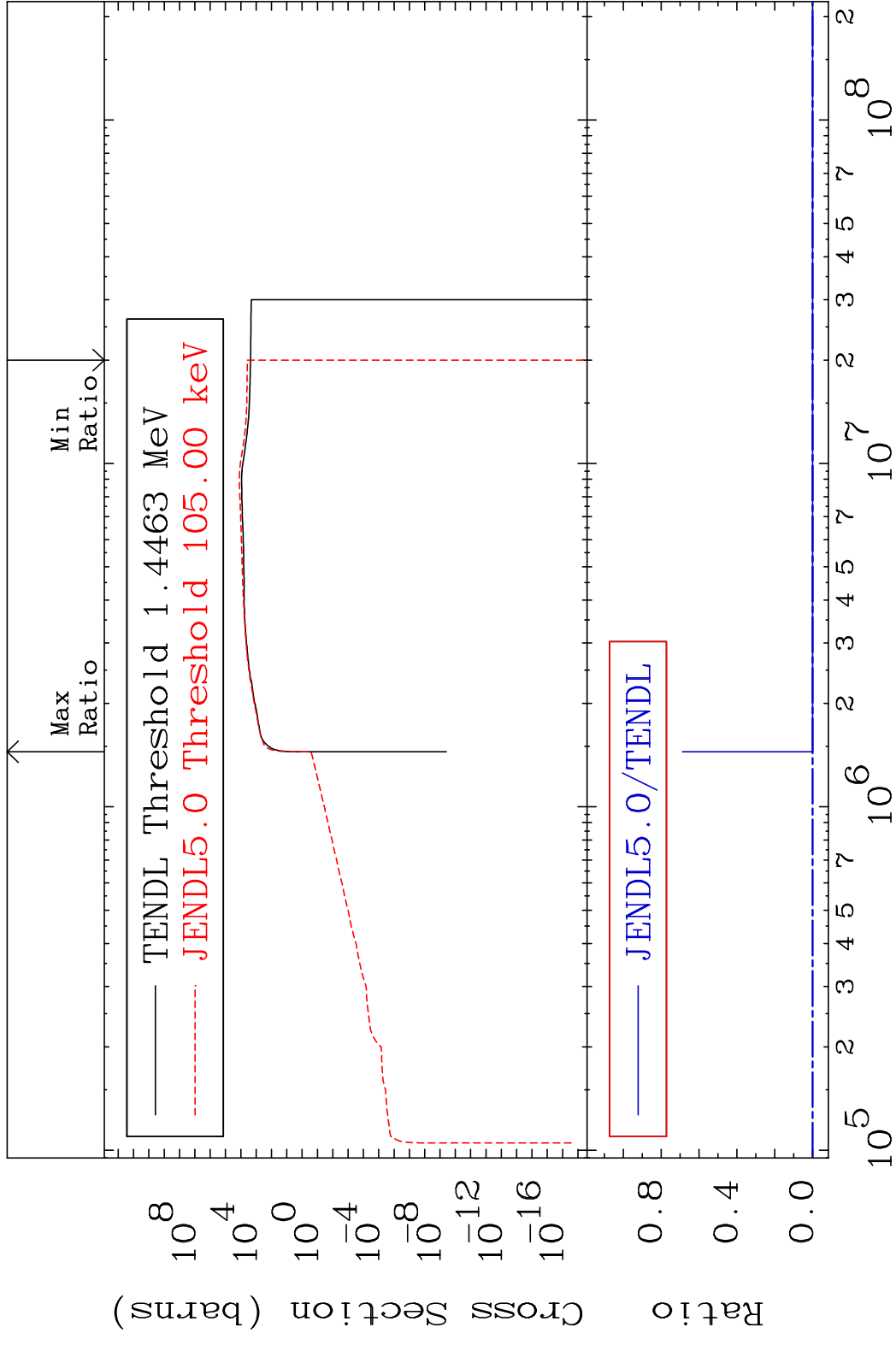


53

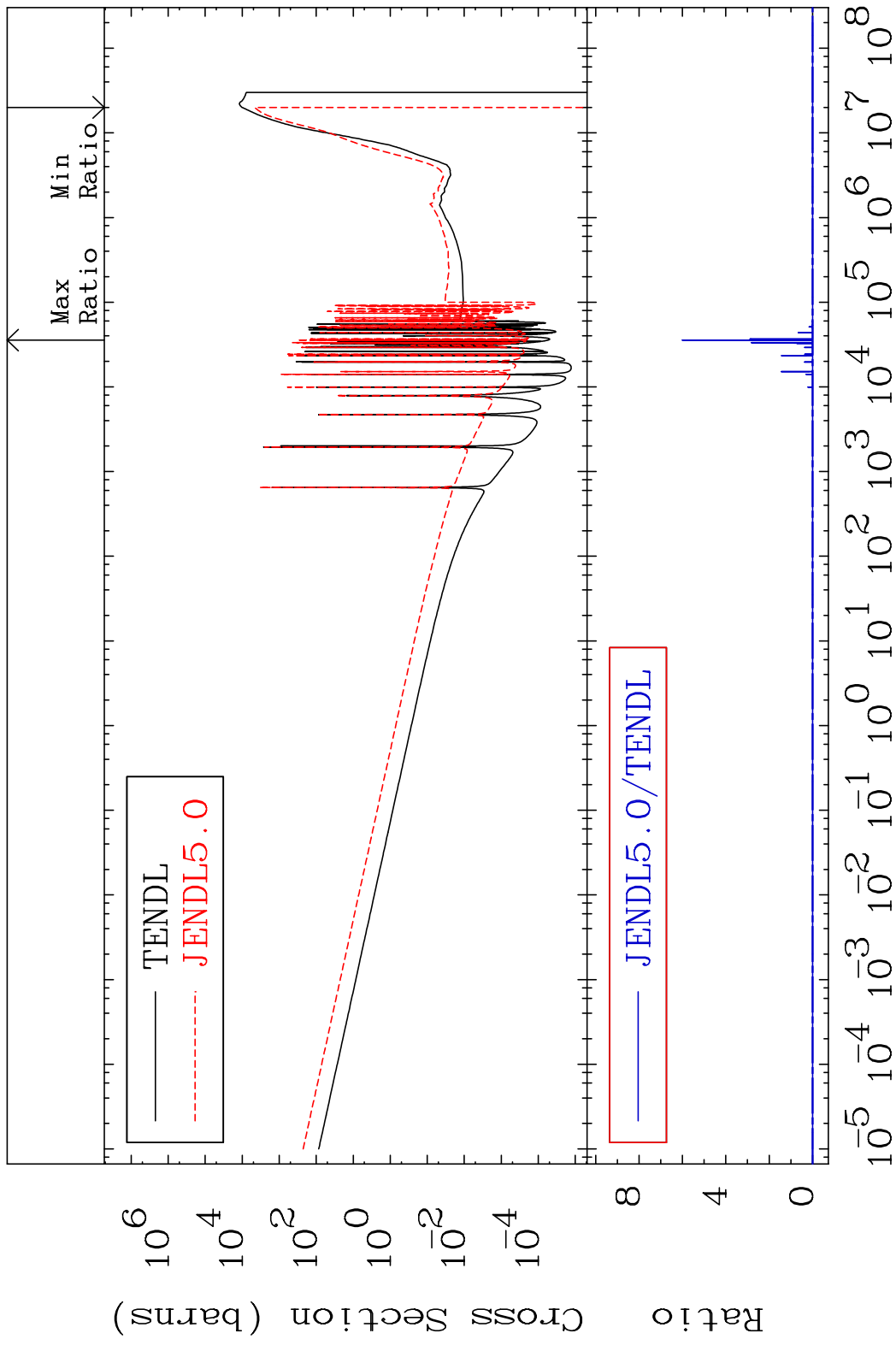
Incident Energy (eV)

56-Ba-138

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

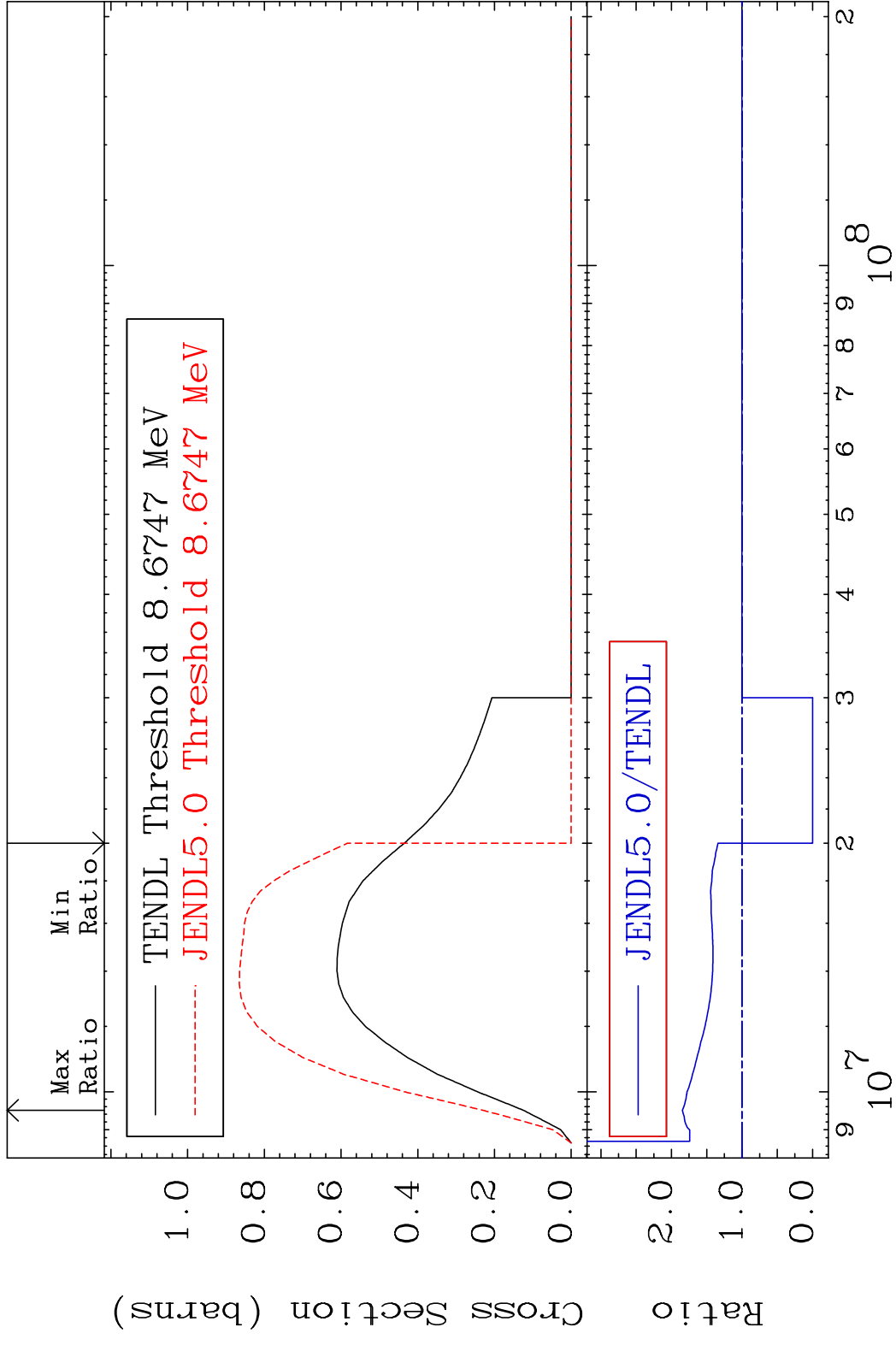


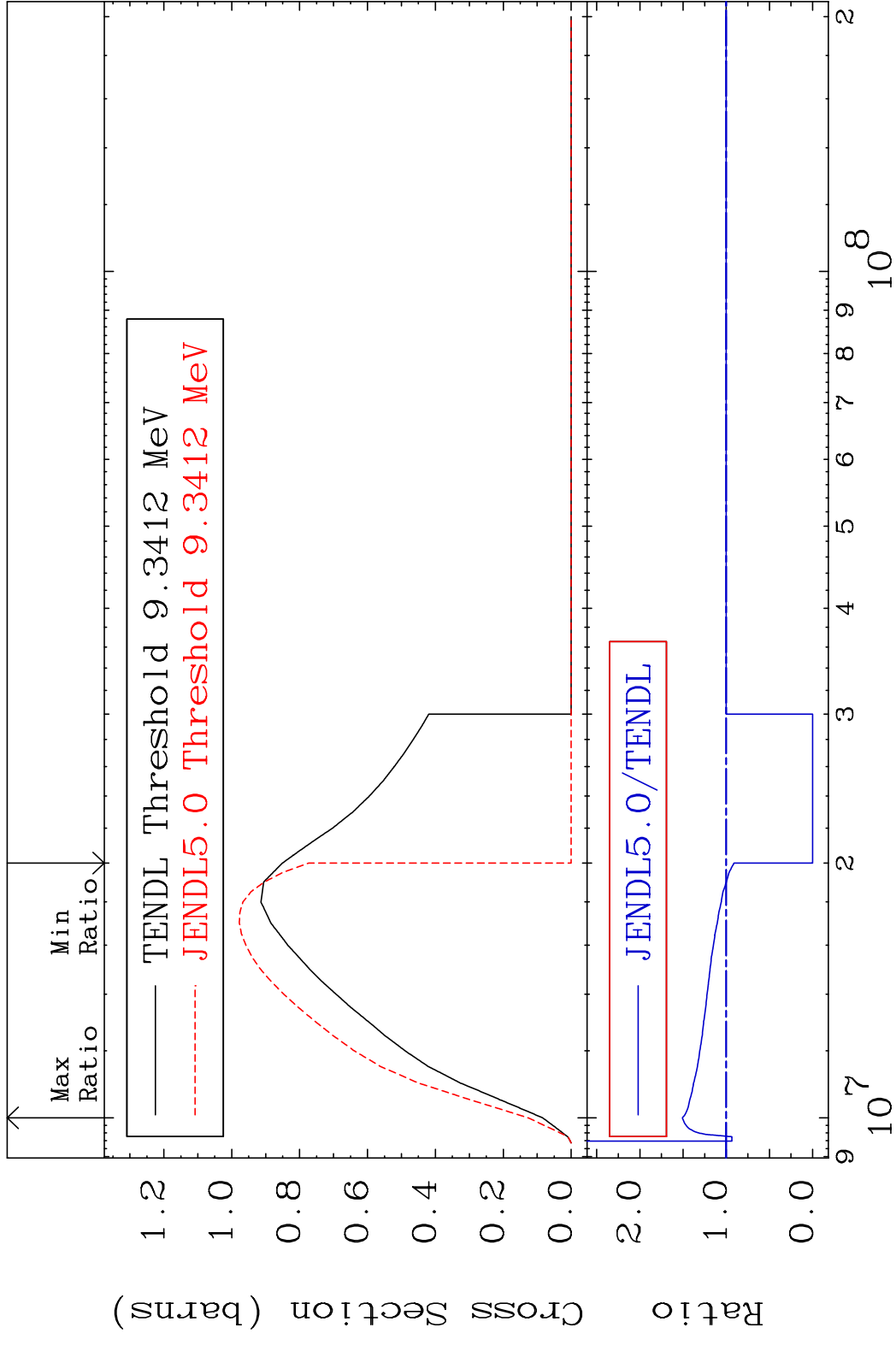
MAT 5649 Dpa disappearance (mt102 -120) 56-Ba-138
 Cross Section -100.0 To 9999. %

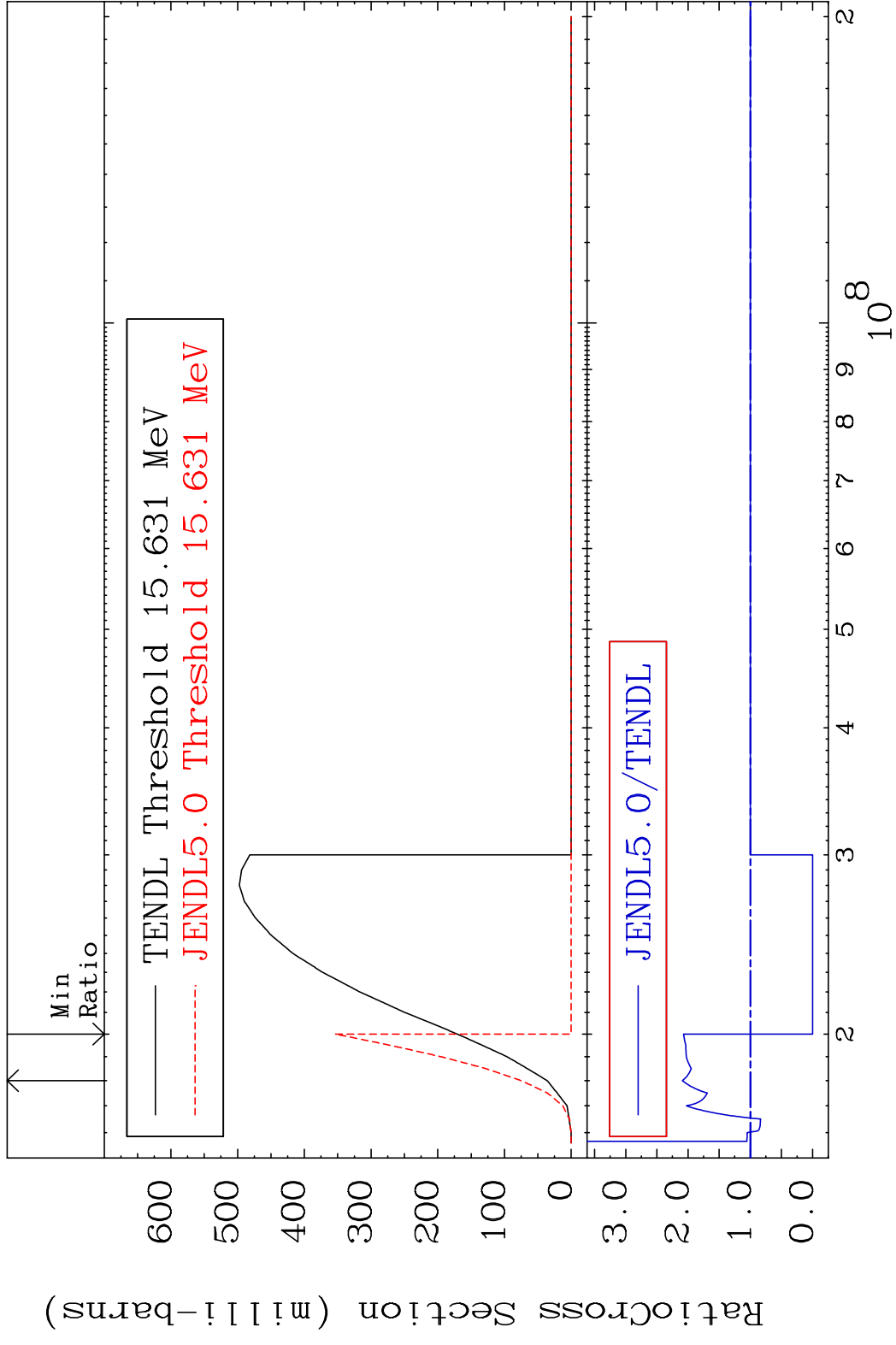


55 Incident Energy (eV) 56-Ba-138

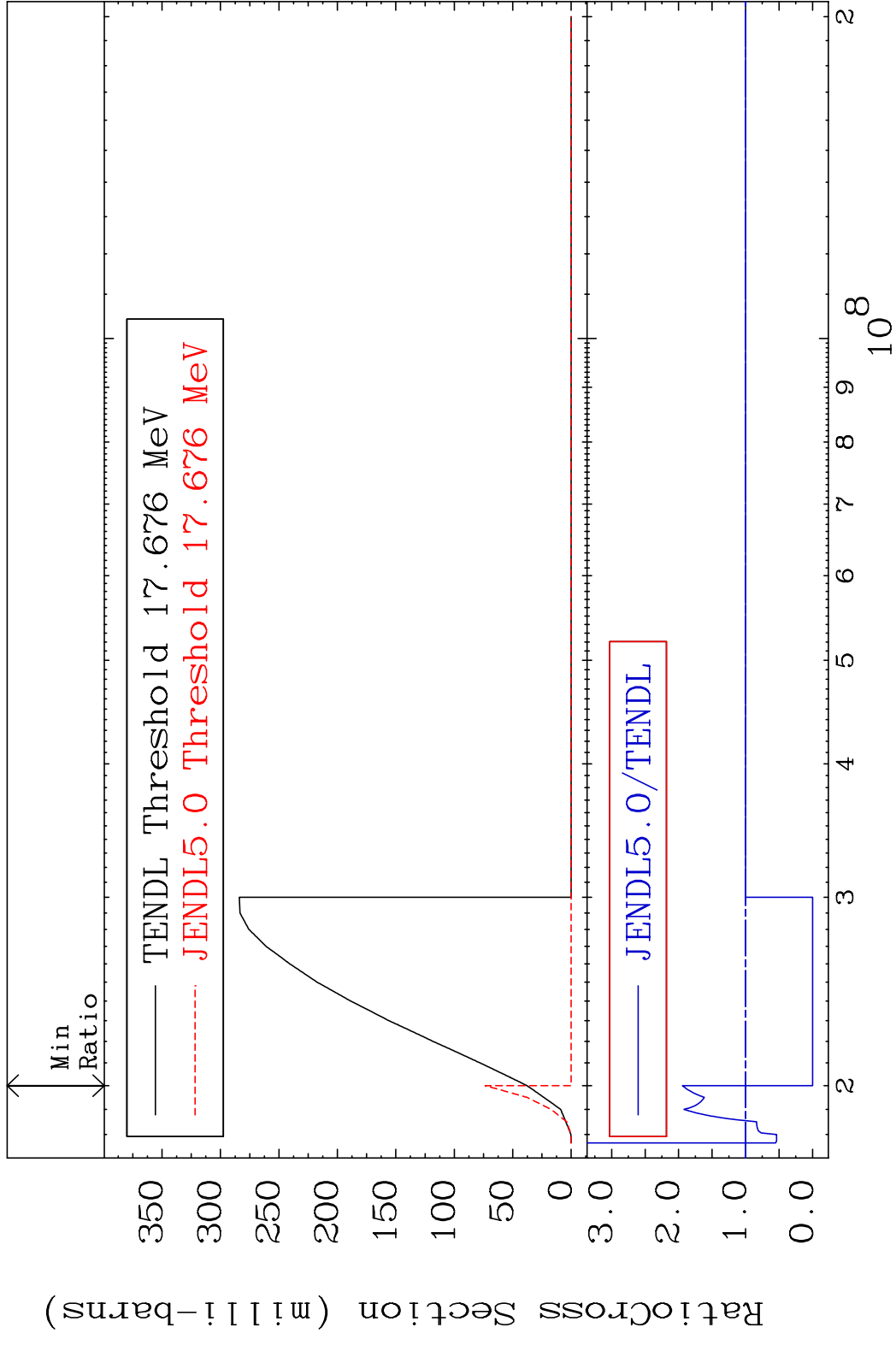
MAT 5649 (n,2n):56-Ba-137g 56-Ba-138
 Radionuclide Production Cross Section 180.01 dth 84.53 %



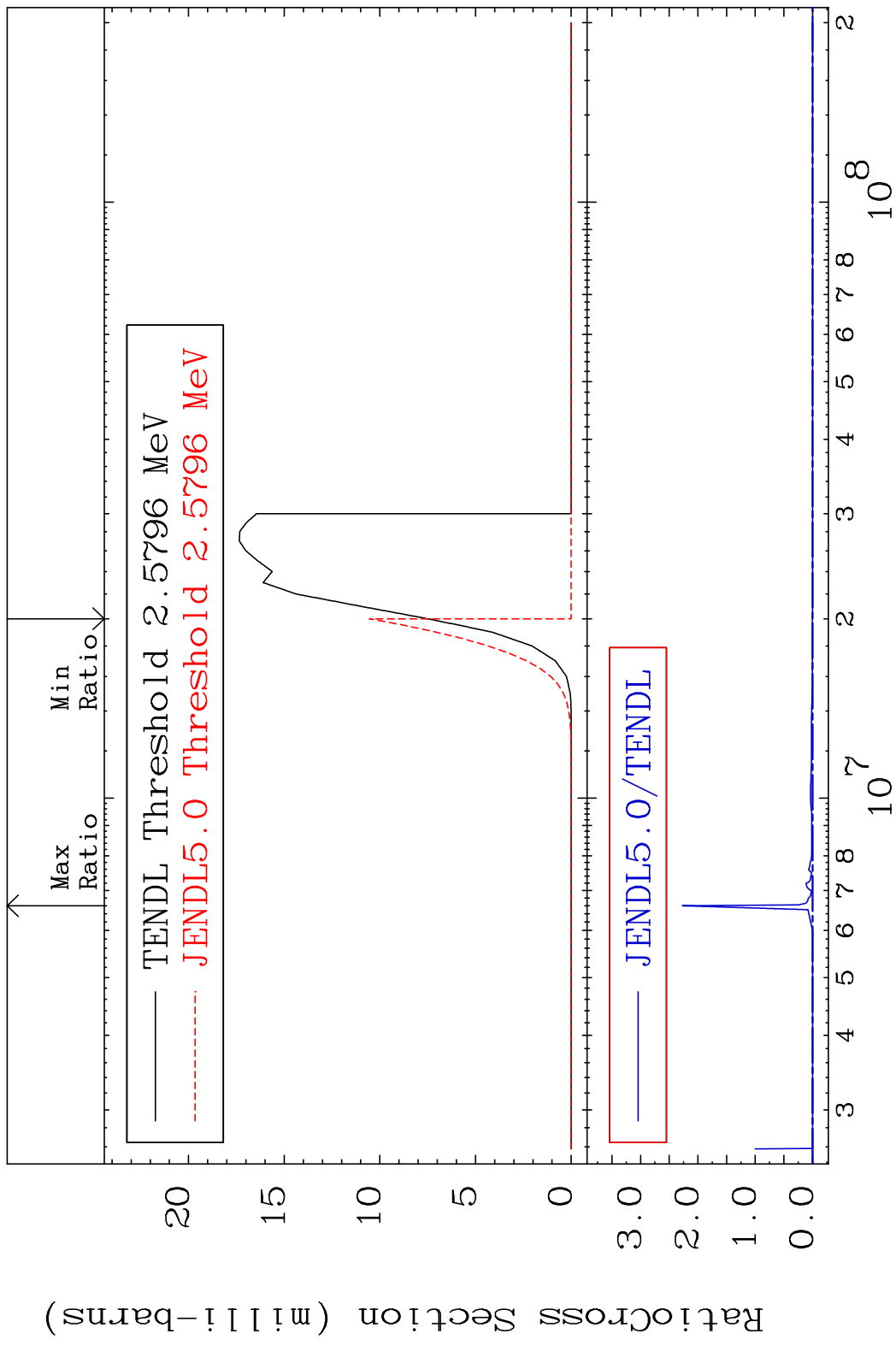


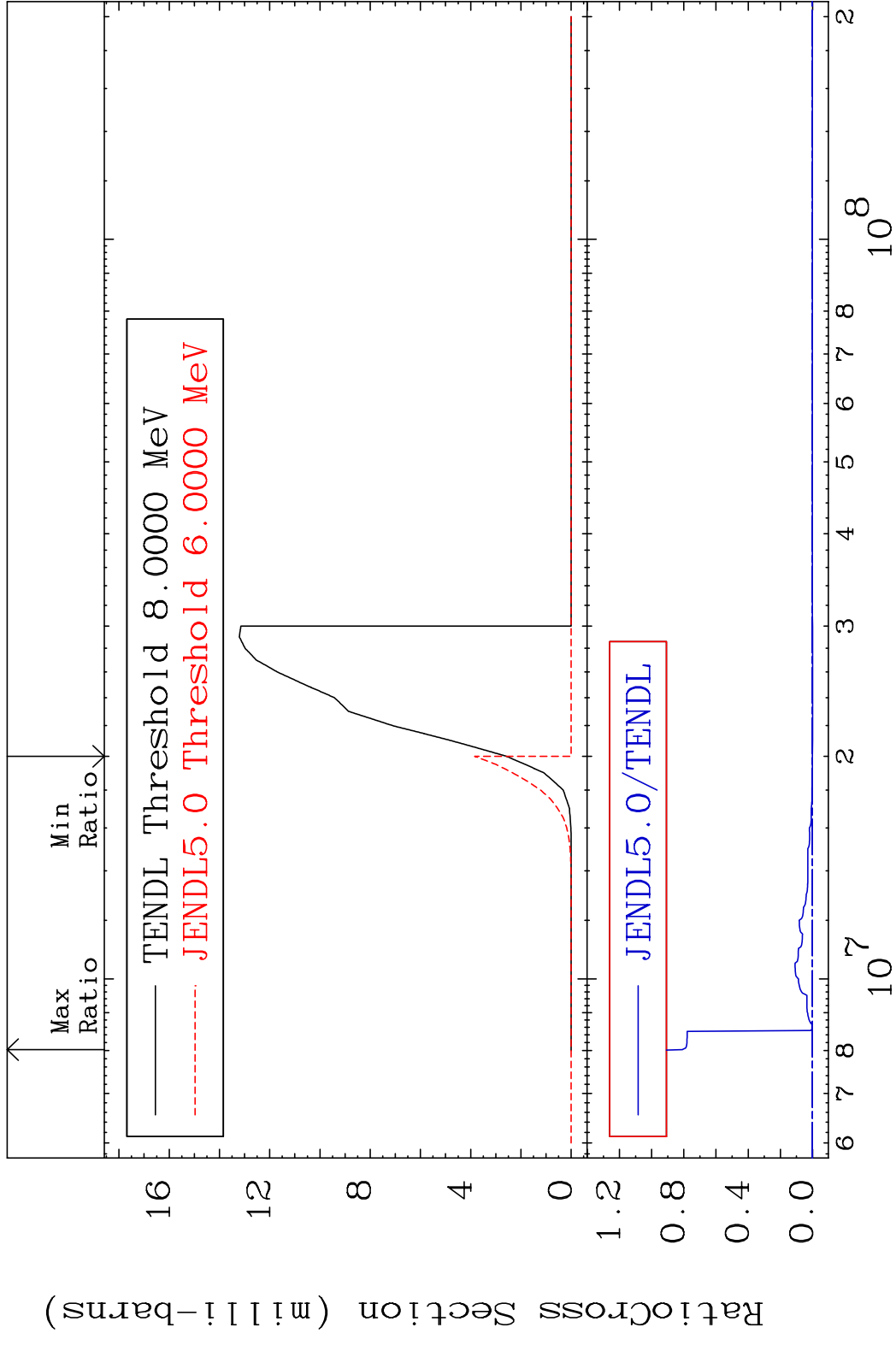


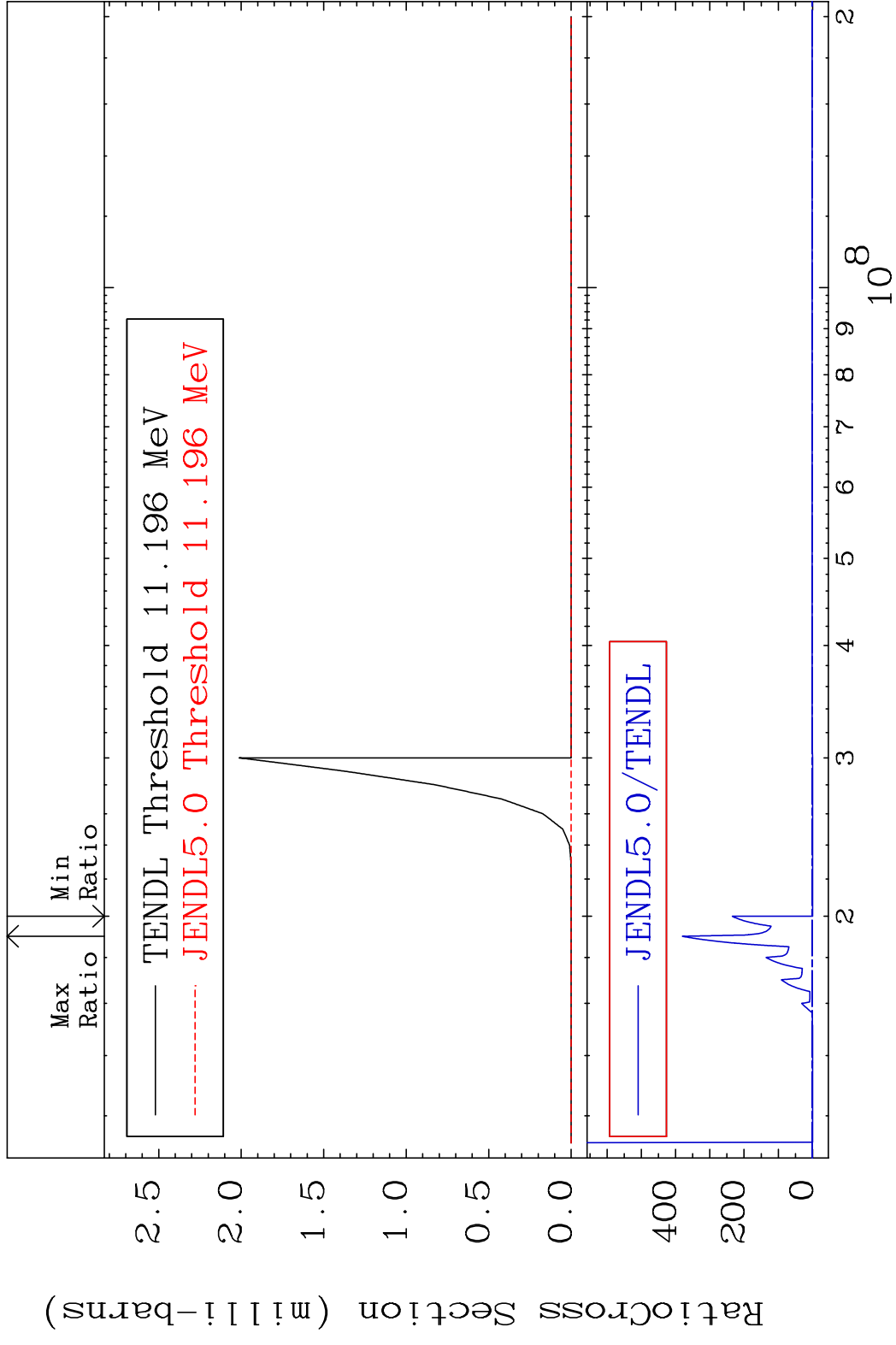
MAT 5649 (n, 3n):56-Ba-136m5 56-Ba-138
 Radionuclide Production Cross Section Ratio 94.39 %

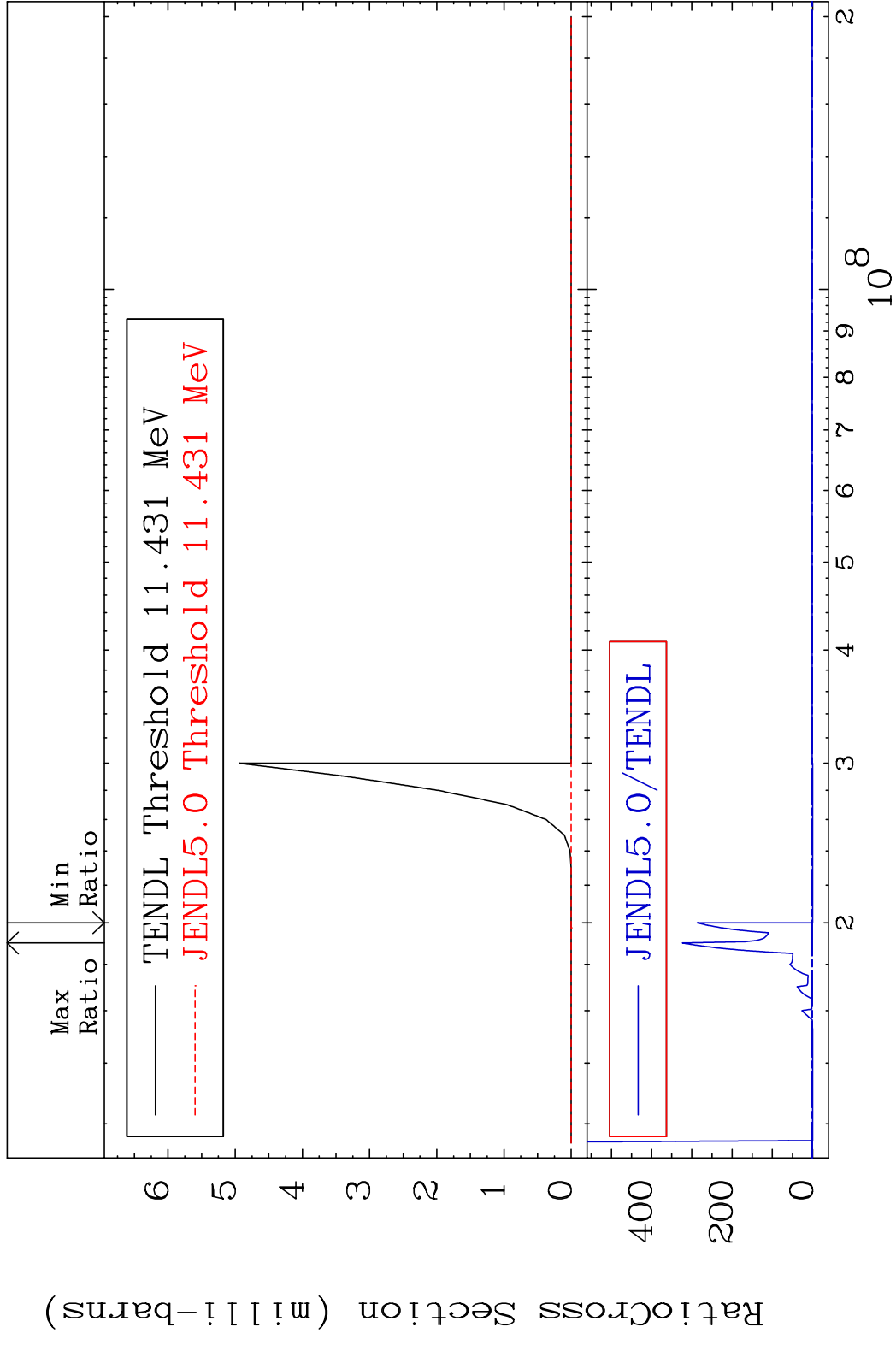


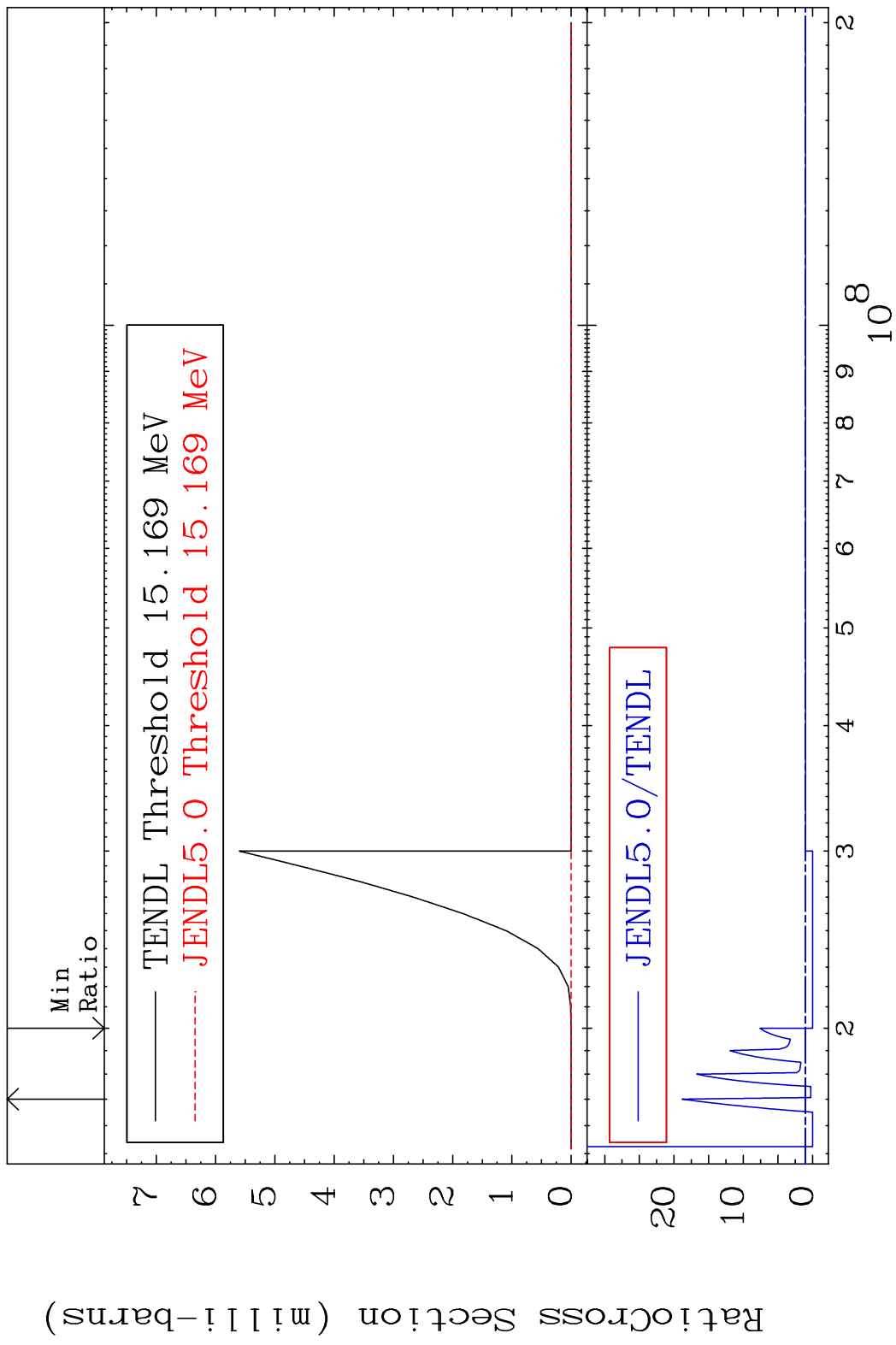
MAT 5649 (n, n') α :54-Xe-134g 56-Ba-138
 Radionuclide Production Cross Section Ratio 9999. %

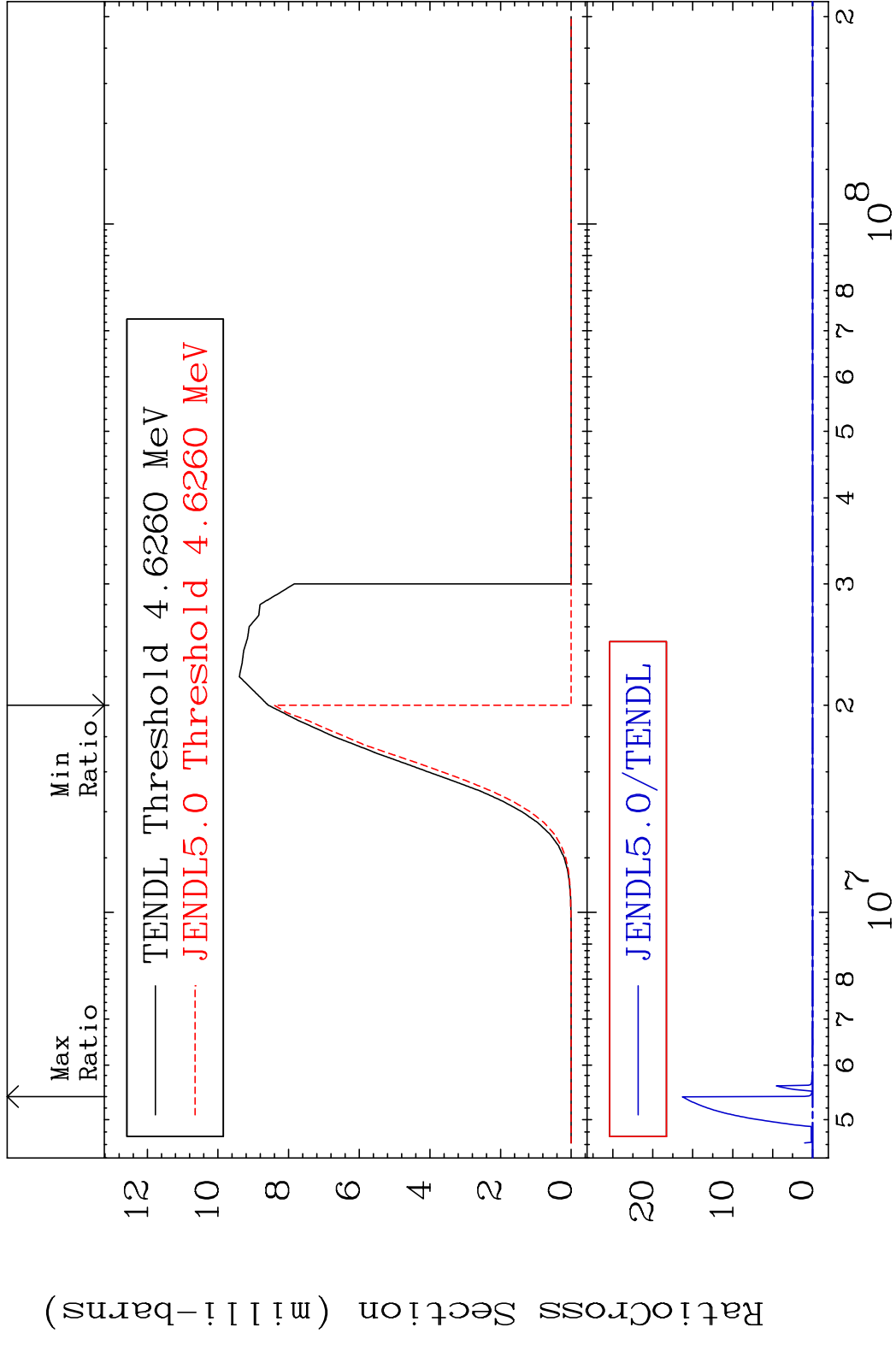


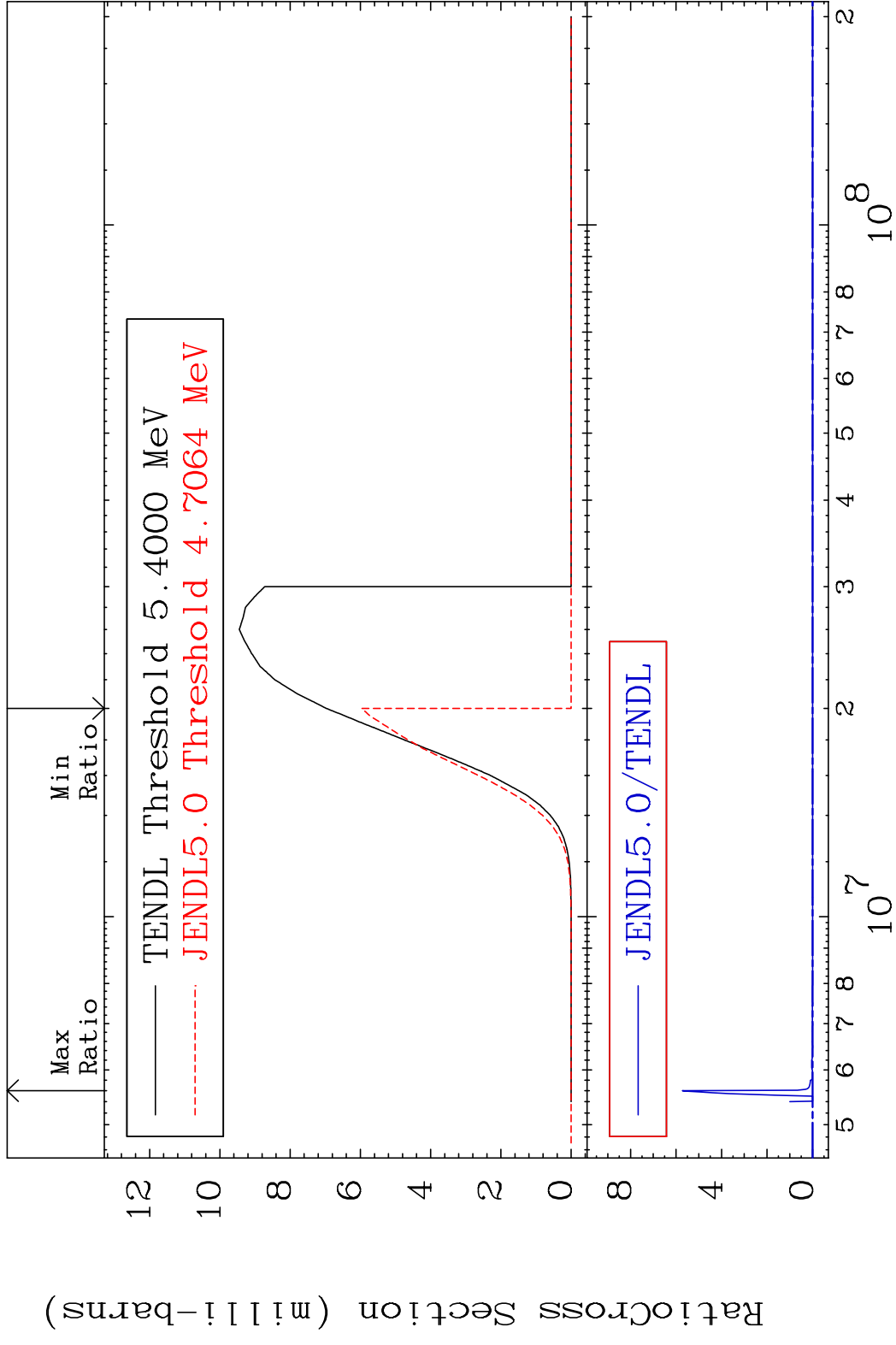




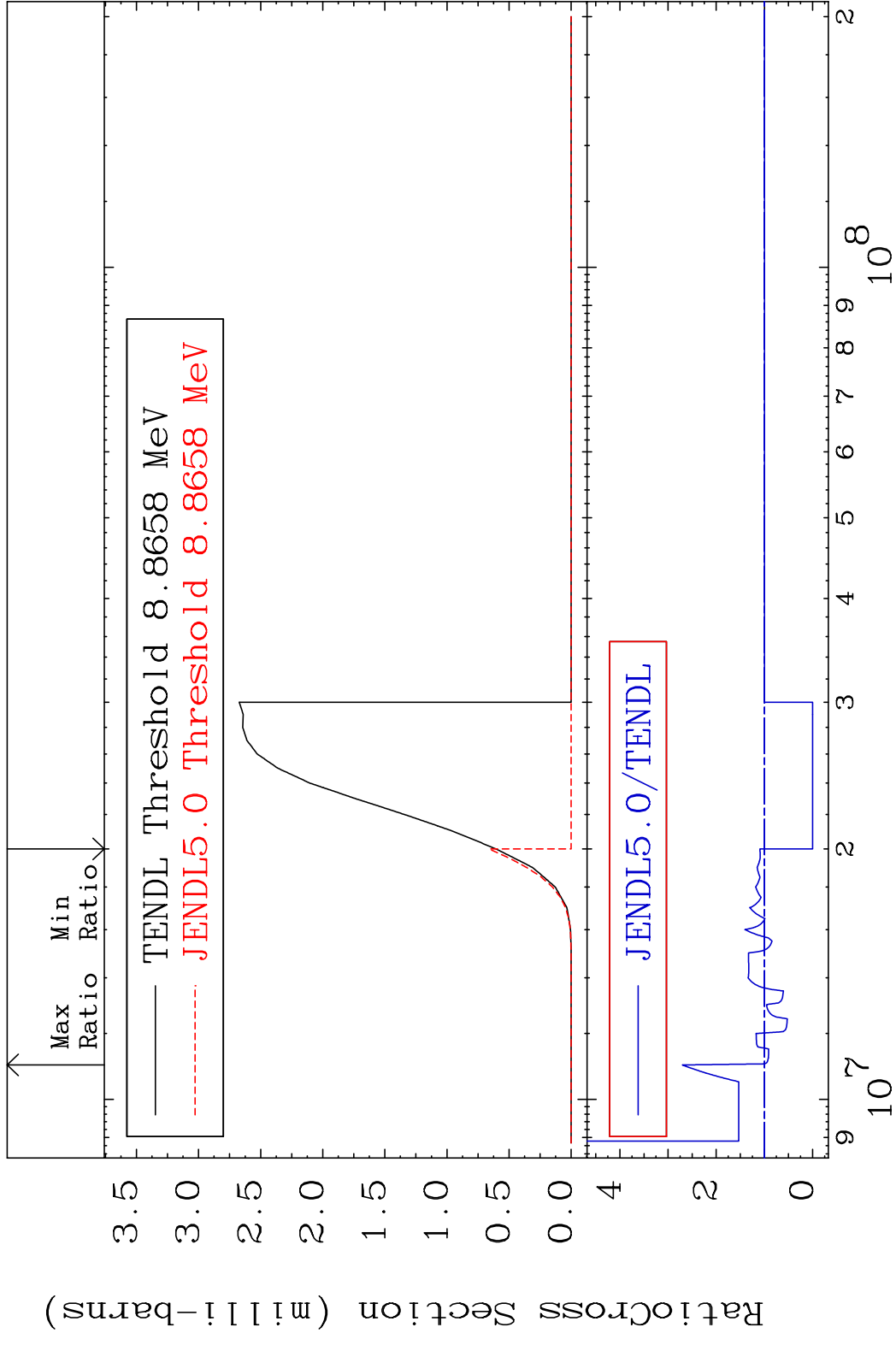








MAT 5649 (n,t):55-Cs-136g 56-Ba-138
 Radionuclide Production Cross Section 180.0 dth 170.3 %



67 Incident Energy (eV) 56-Ba-138