

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

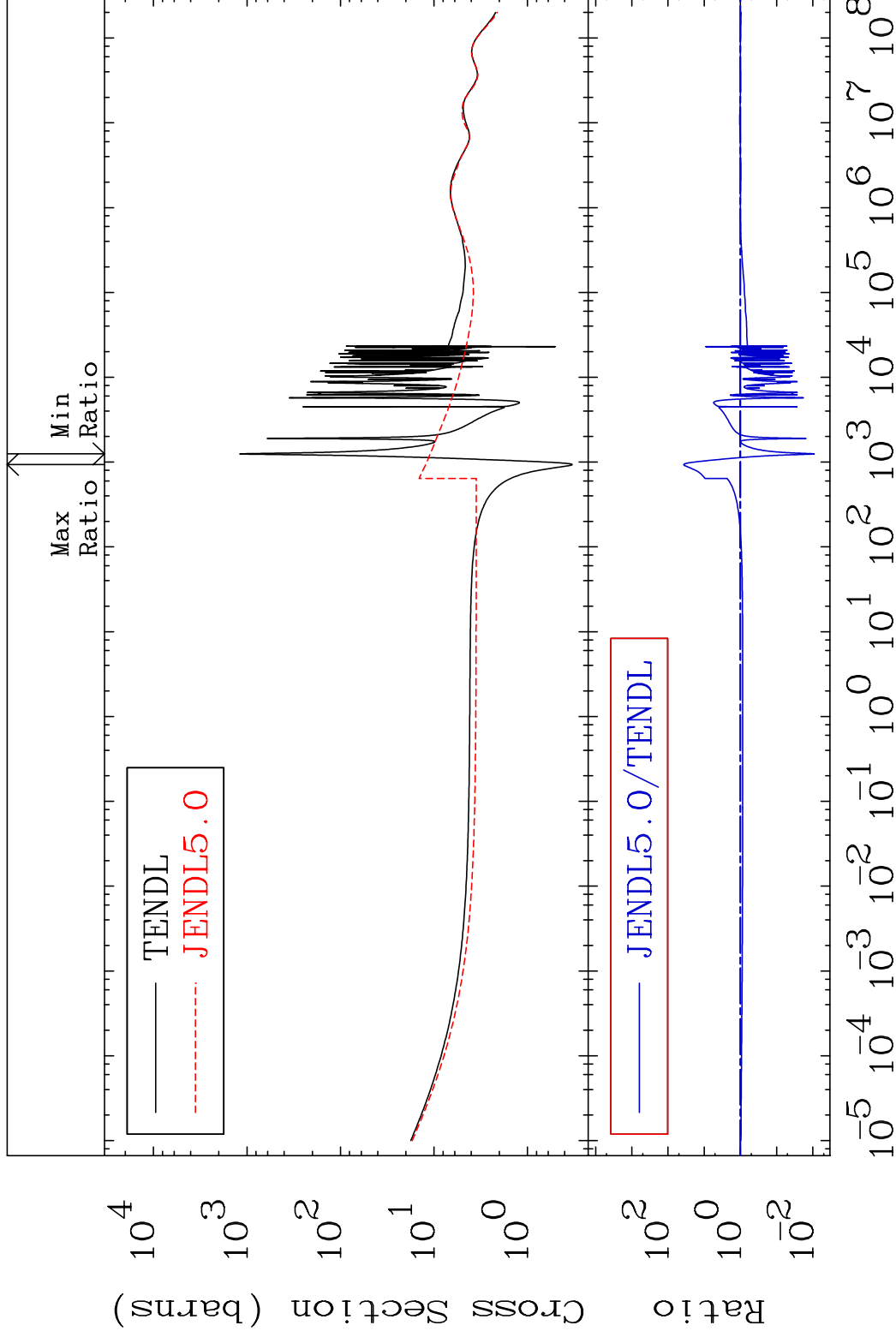
MAT 5537

Total

55-Cs-137

Cross Section

-99.08 To 3593. %



1

Incident Energy (eV)

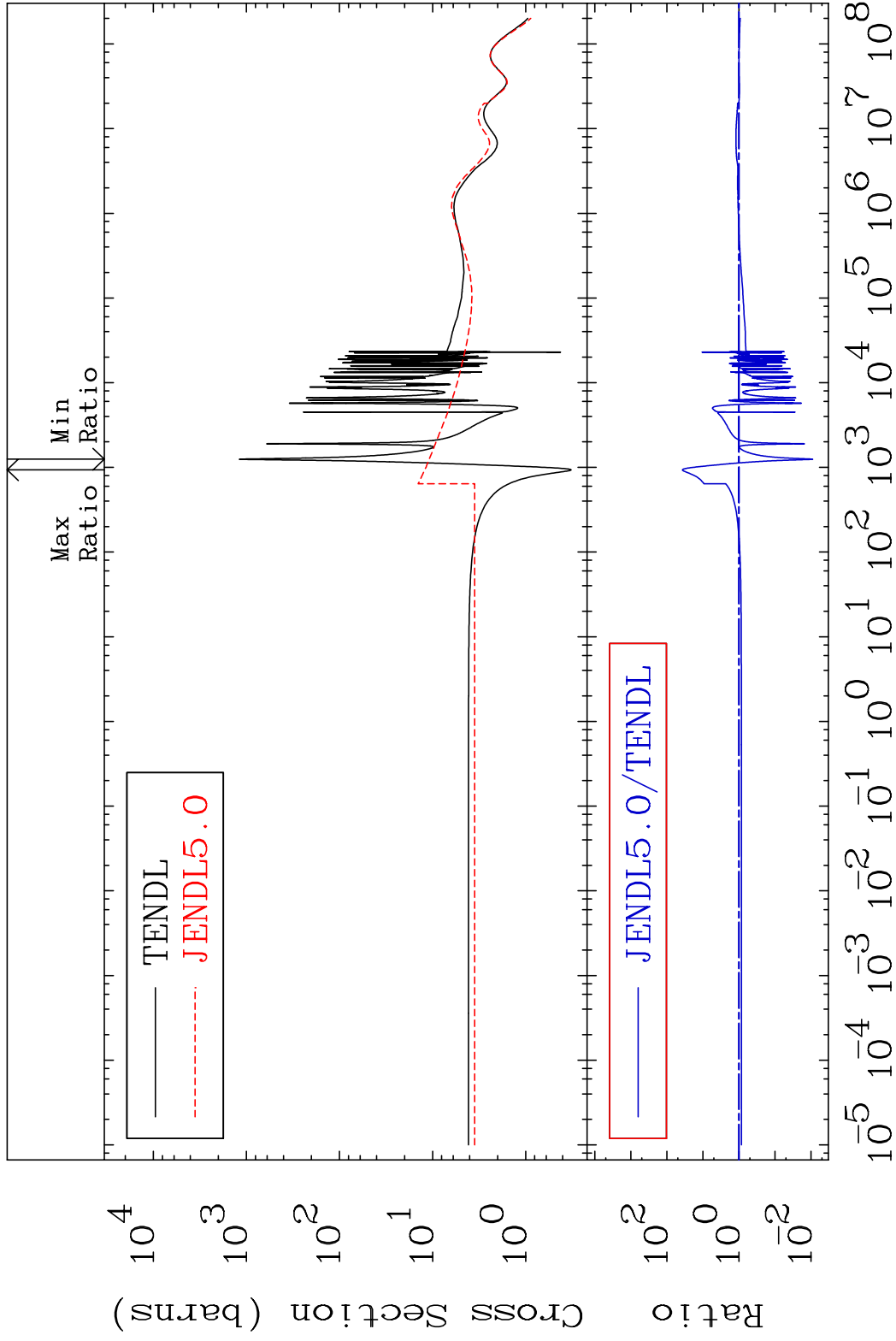
55-Cs-137

MAT 5537

Elastic

55-Cs-137

Cross Section -99.09 To 3641. %



2

Incident Energy (eV)

55-Cs-137

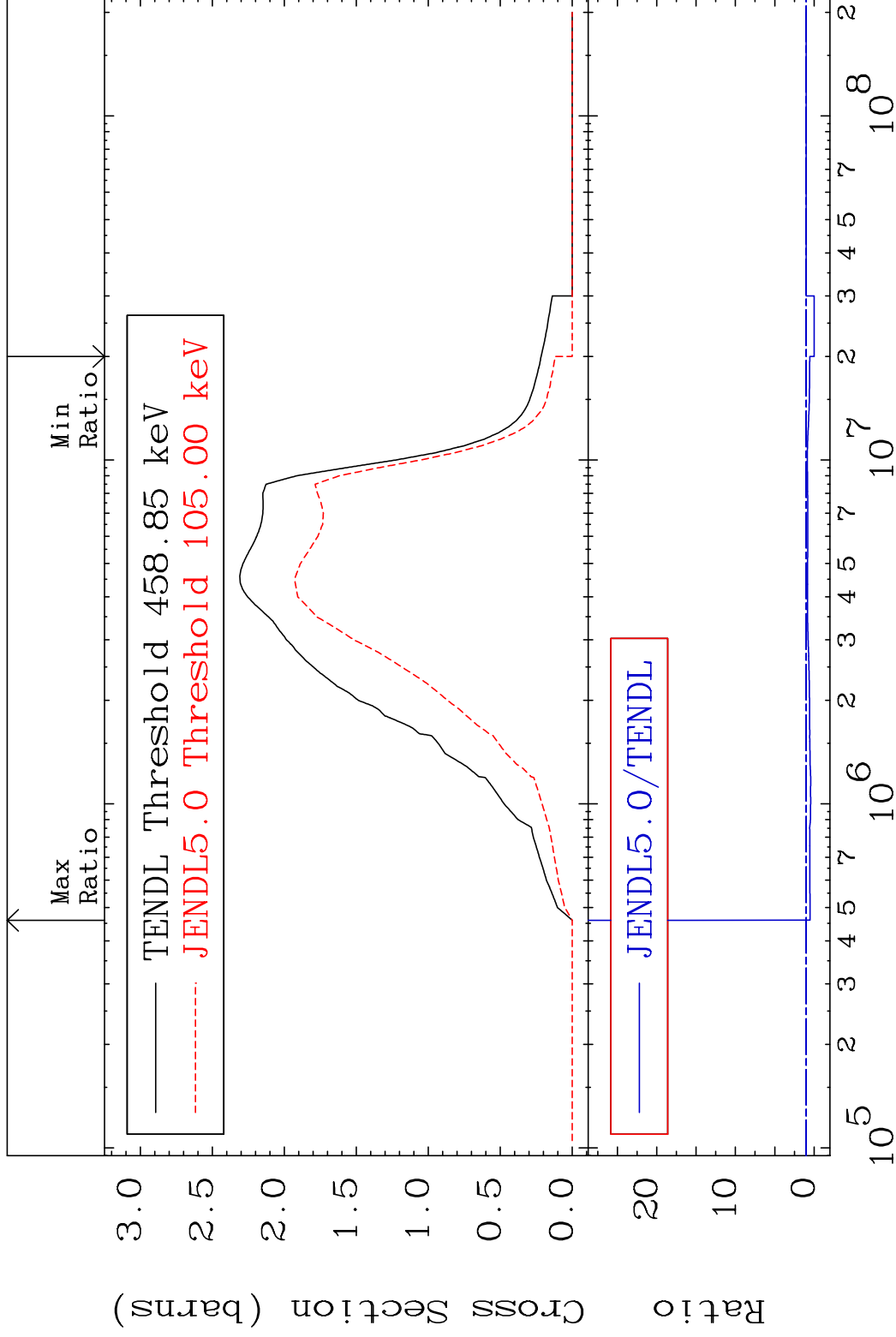
MAT 5537

Inelastic

55-Cs-137

Cross Section

-100.0 To 1558. %



3

Incident Energy (eV)

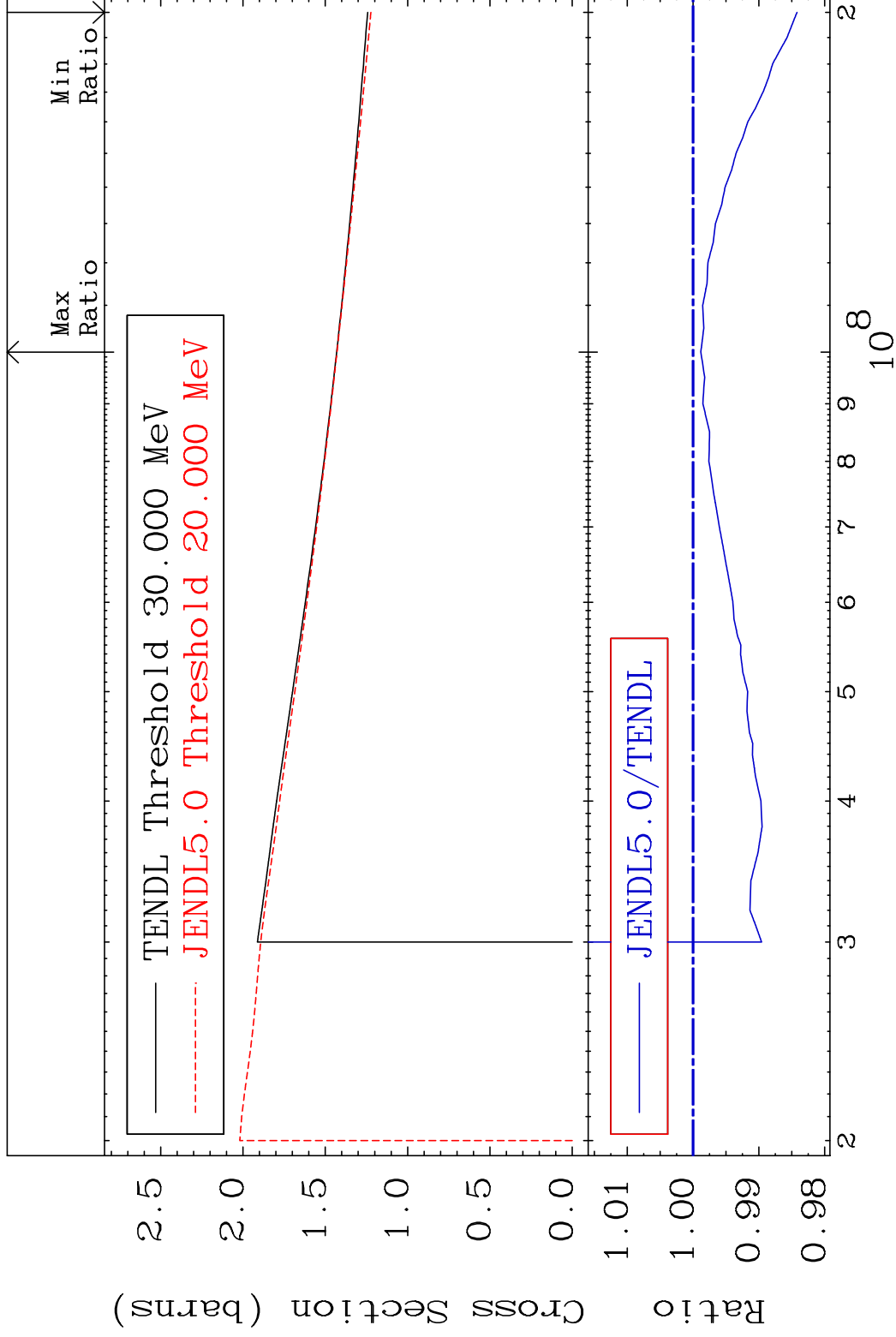
55-Cs-137

MAT 5537

(n, remainder)

55-Cs-137

Cross Section -1.580 To -0.118%



4

Incident Energy (eV)

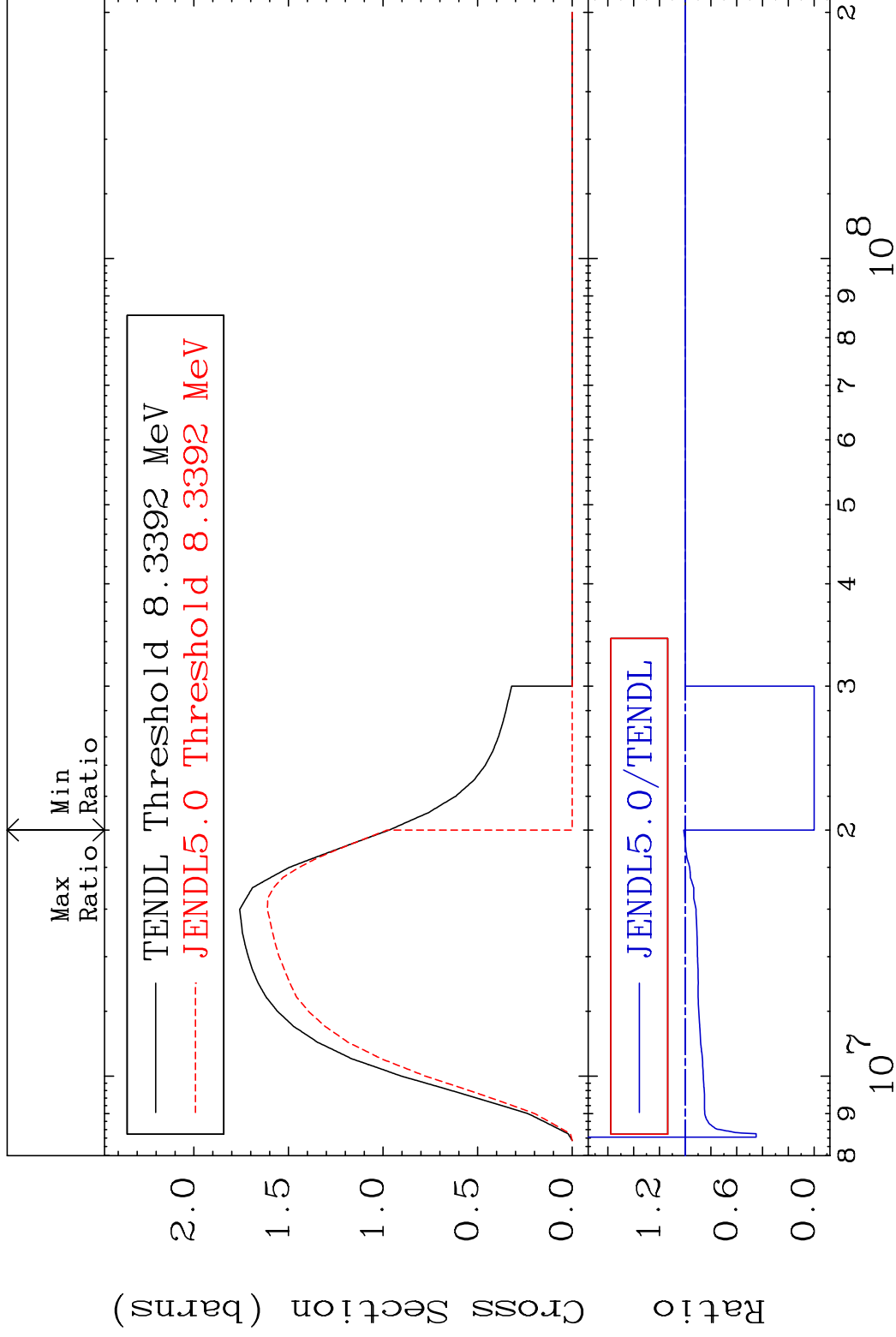
55-Cs-137

MAT 5537

(n,2n)

55-Cs-137

Cross Section -100.0 To 1.204 %



5

Incident Energy (eV)

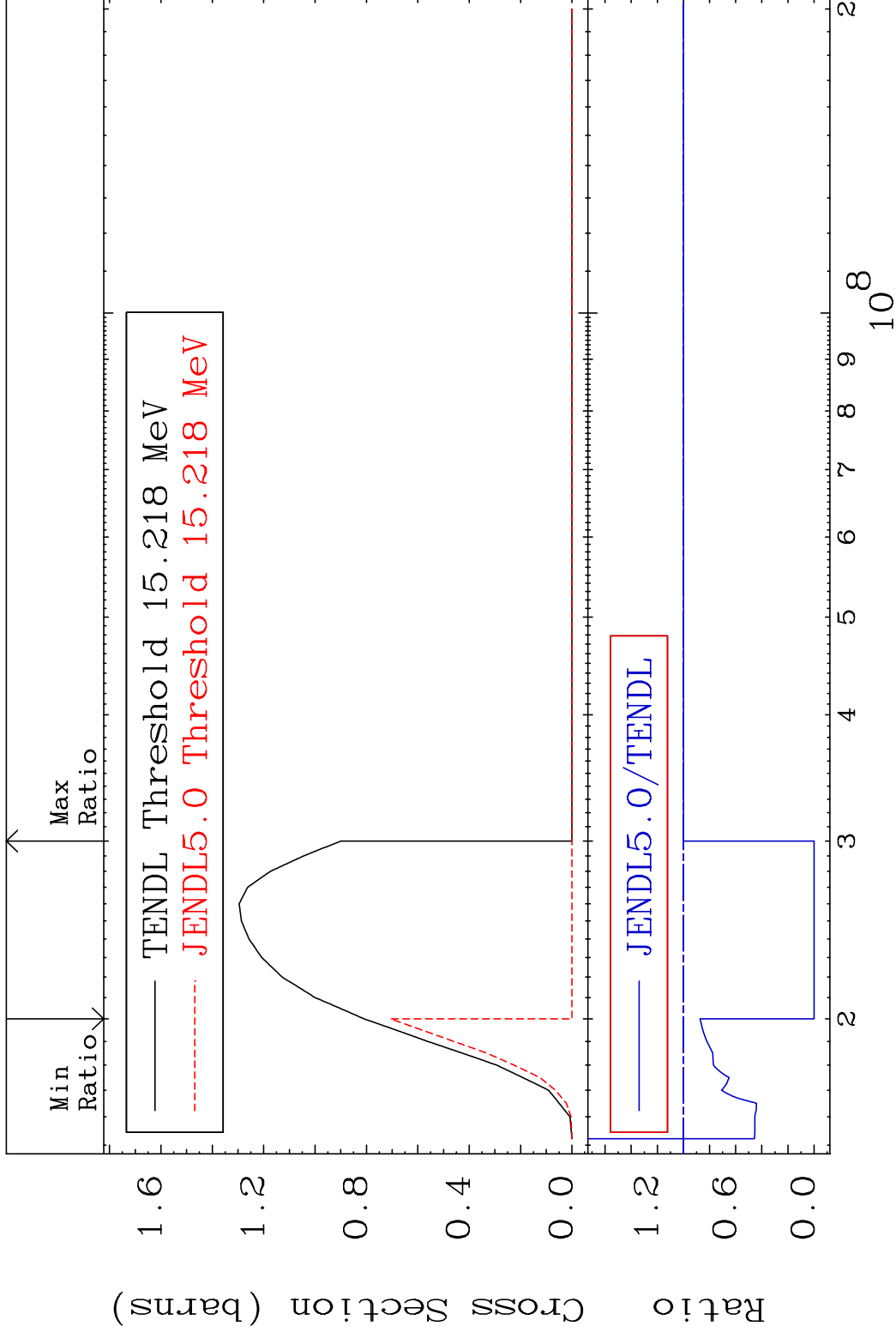
55-Cs-137

MAT 5537

(n,3n)

55-Cs-137

Cross Section -100.0 To 0.000 %

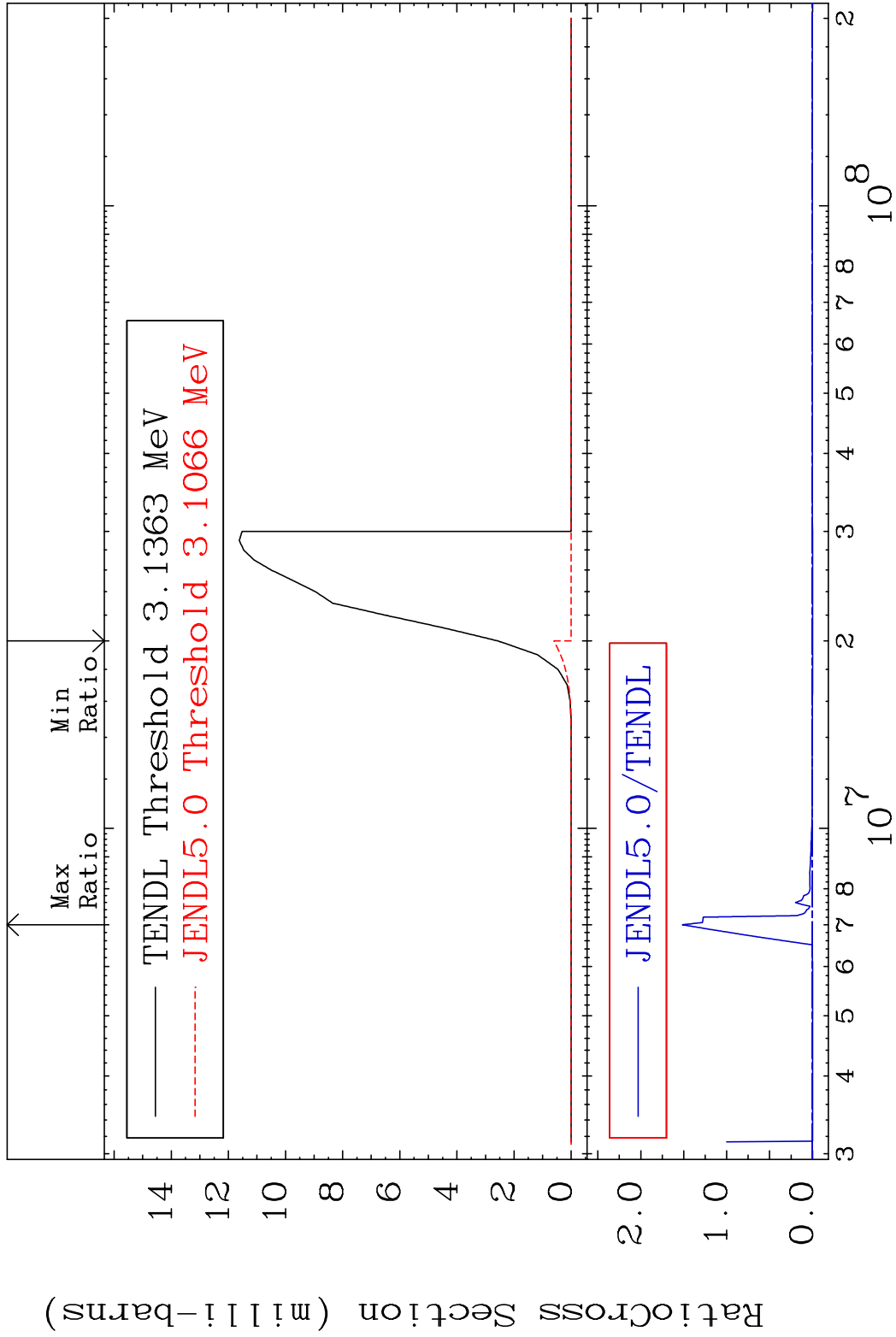


MAT 5537

(n, n') α

55-Cs-137

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

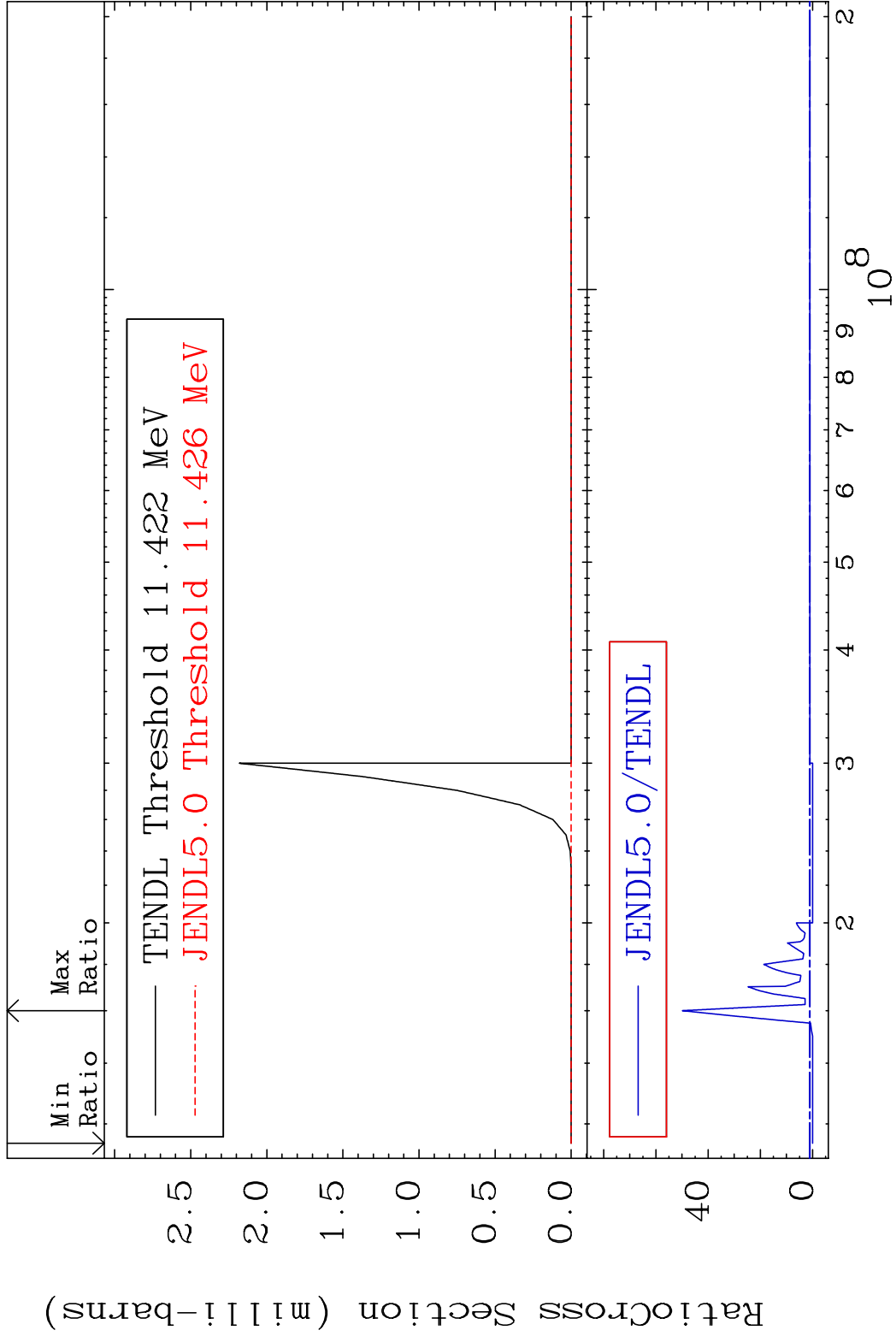
55-Cs-137

MAT 5537

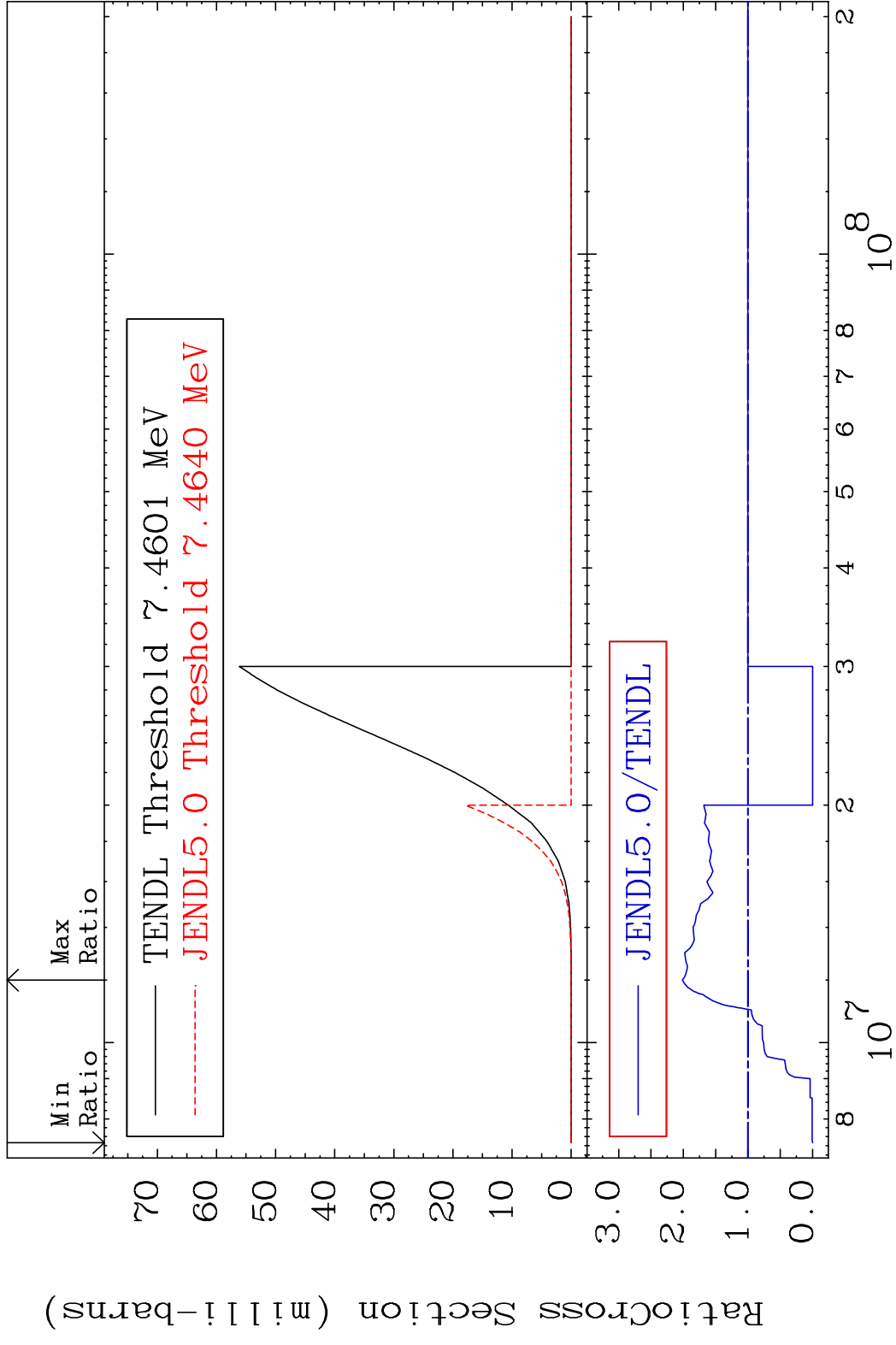
(n,2n) α

55-Cs-137

Cross Section -100.0 To 4888. %



MAT 5537 (n, n') p 55-Cs-137
 Cross Section -100.0 To 101.5 %

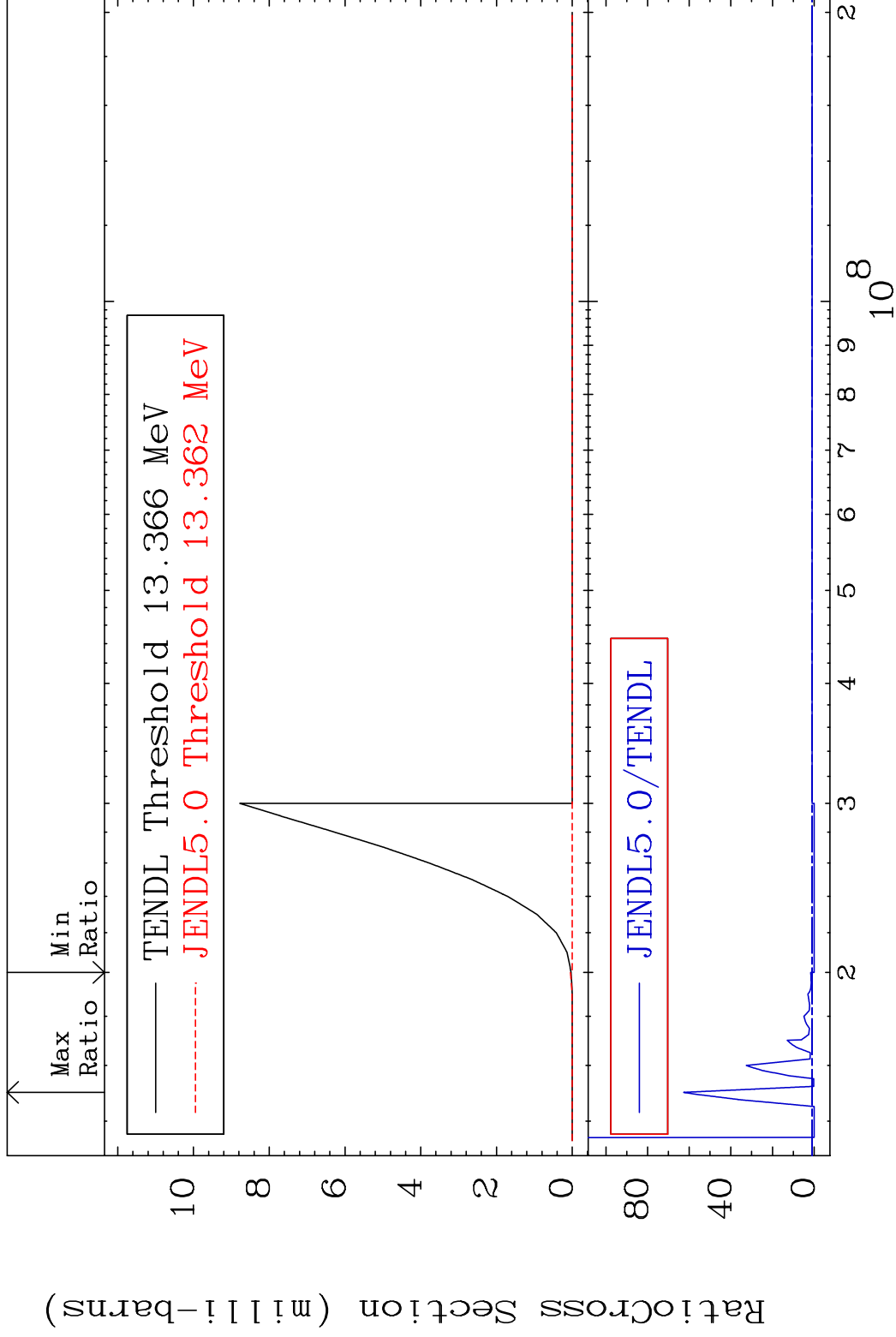


MAT 5537

(n, n') d

55-Cs-137

Cross Section -100.0 To 6166. %



10

Incident Energy (eV)

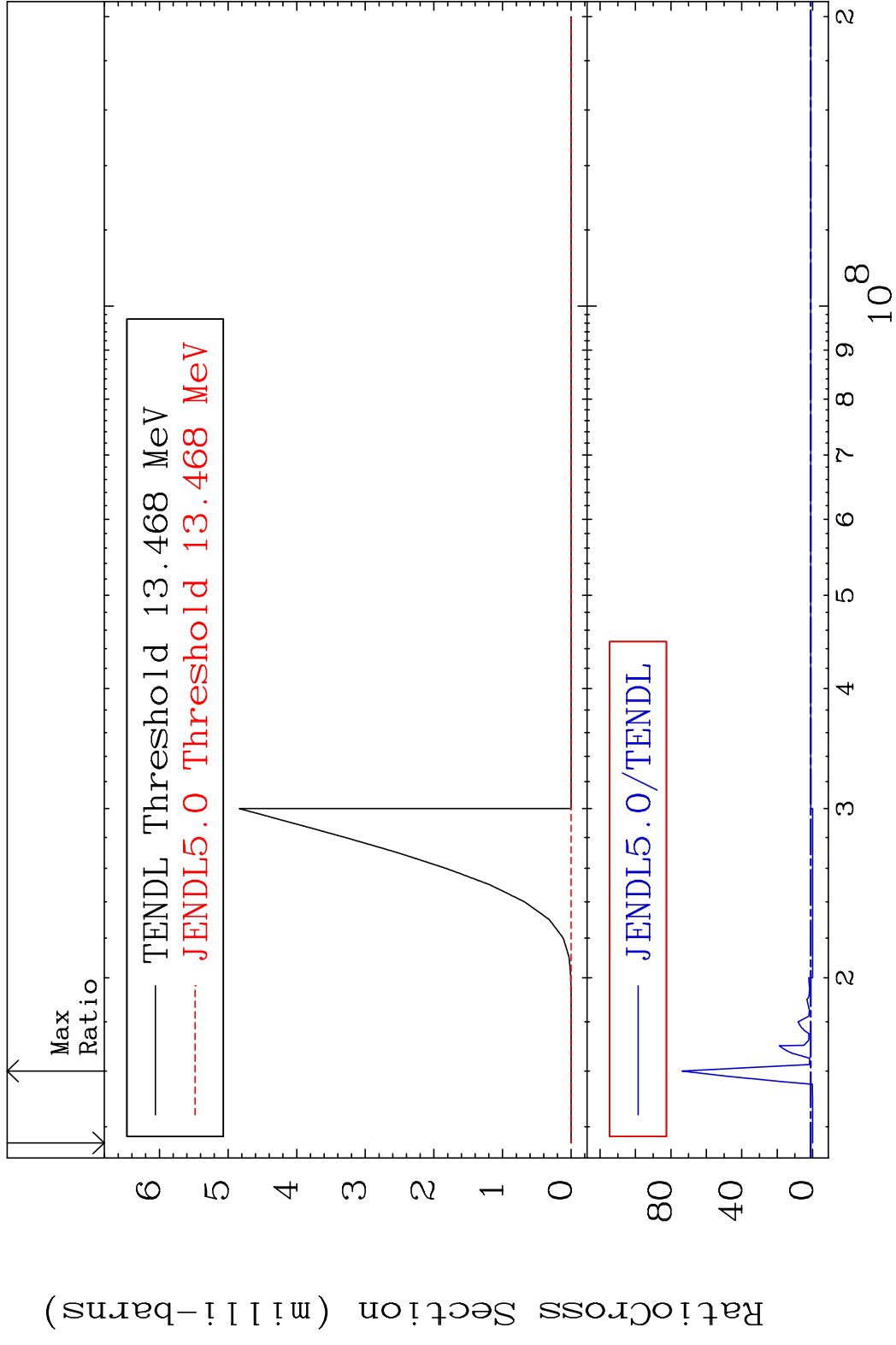
55-Cs-137

MAT 5537

(n, n') t

55-Cs-137

Cross Section -100.0 To 7254. %

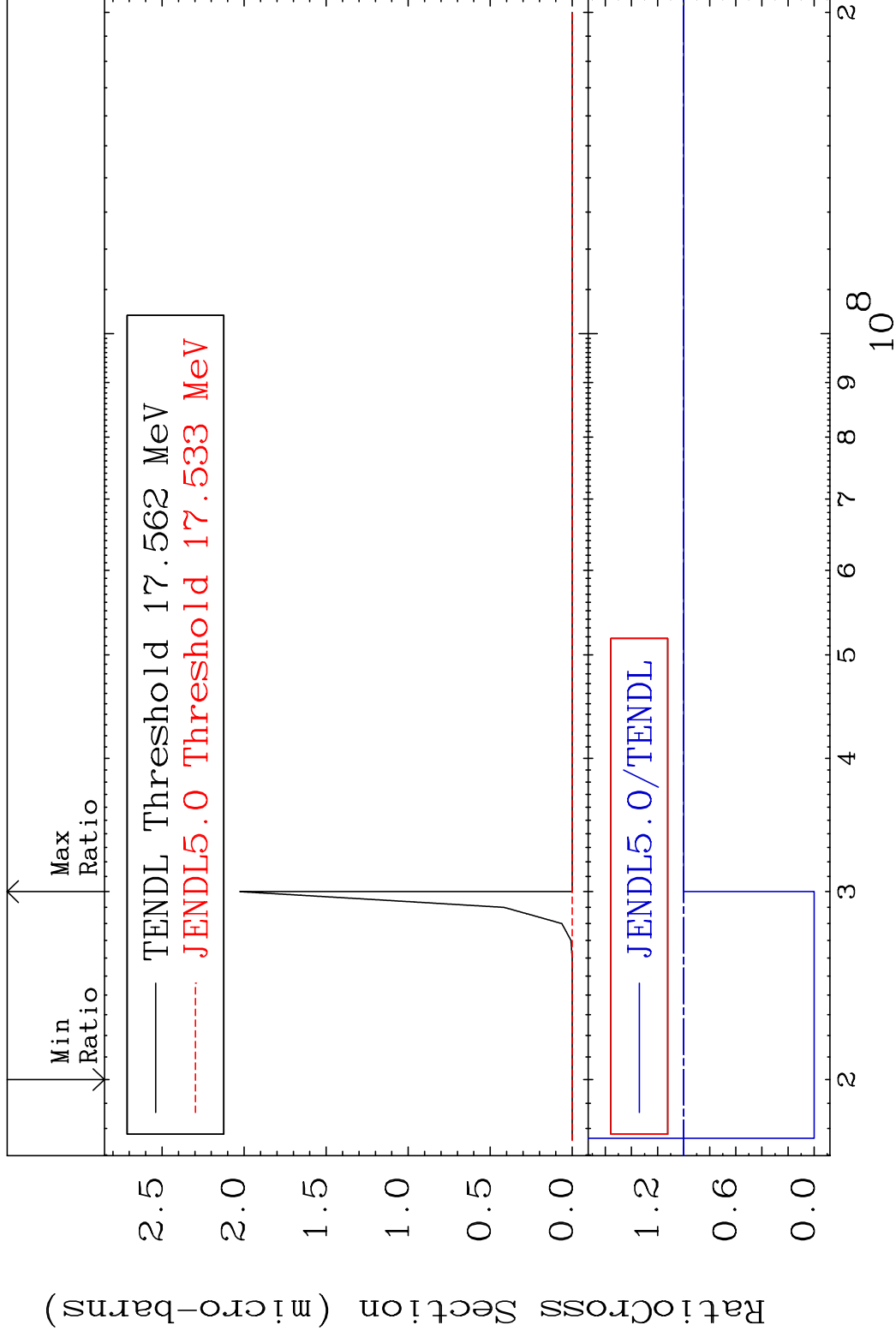


MAT 5537

(n,n') He-3

55-Cs-137

Cross Section -100.0 To 0.000 %

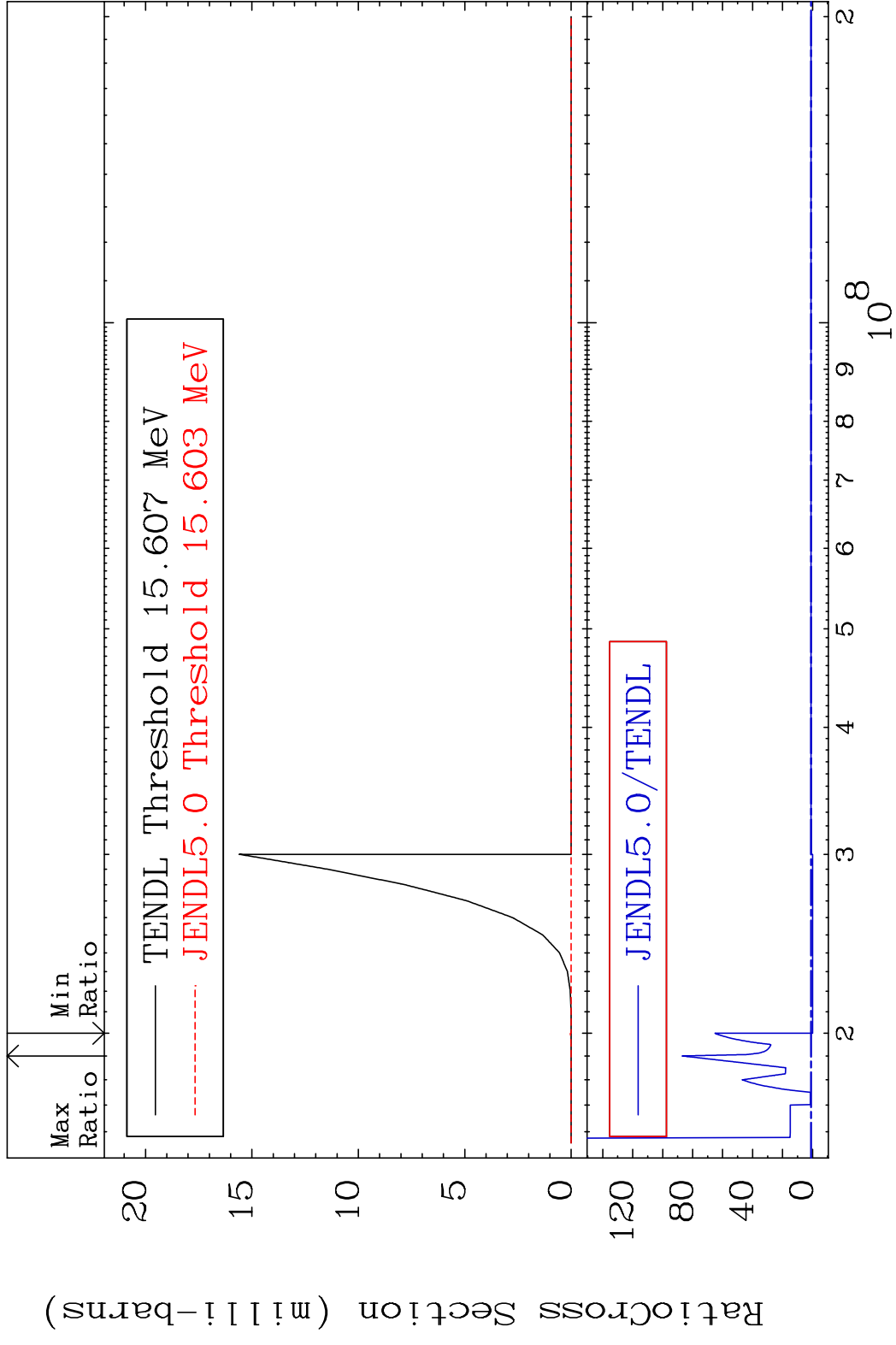


12

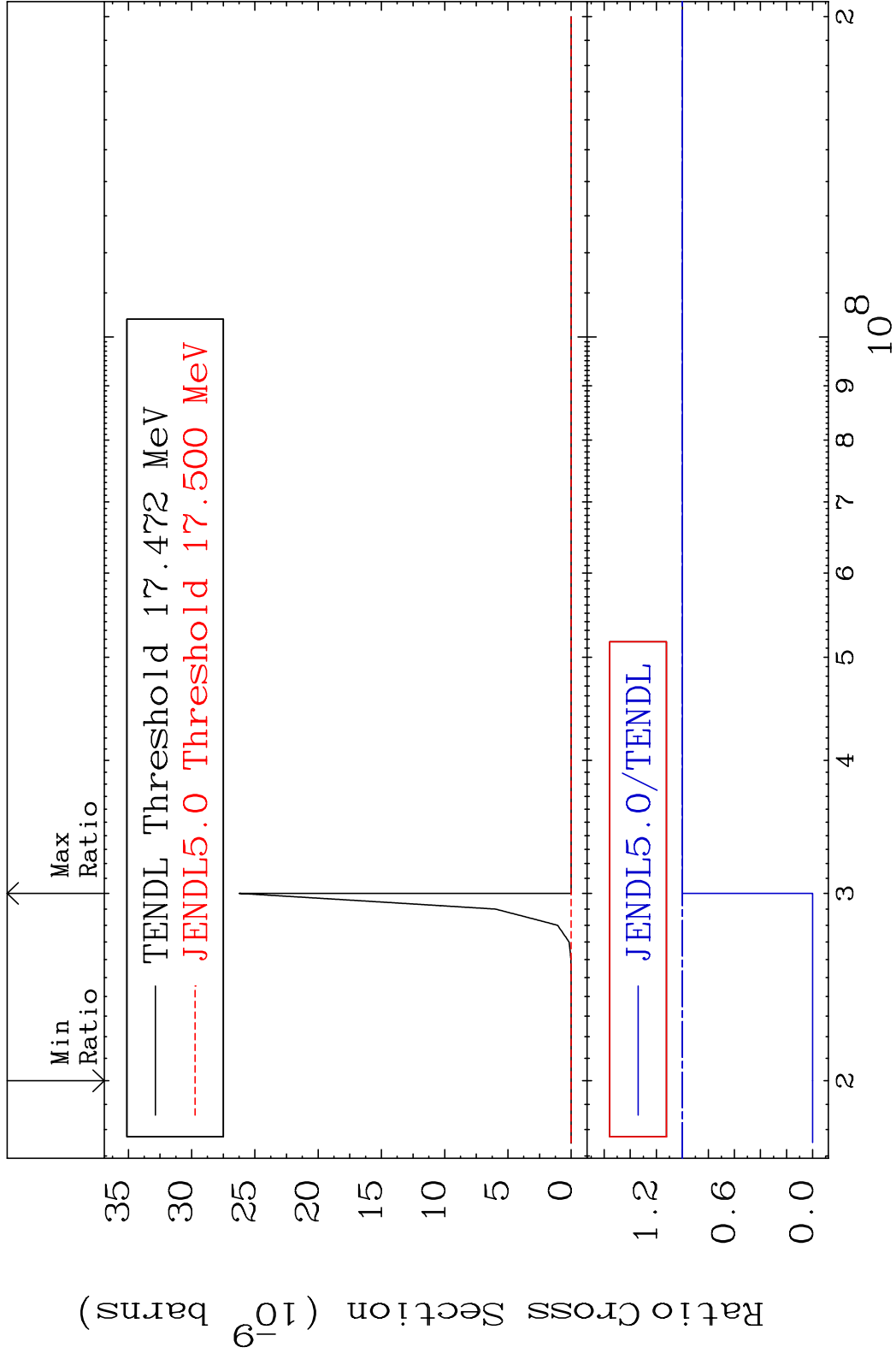
Incident Energy (eV)

55-Cs-137

MAT 5537 (n,2n) p 55-Cs-137
 Cross Section -100.0 To 8588. %



MAT 5537 (n,2n) p 55-Cs-137
 Cross Section -100.0 To 0.000 %

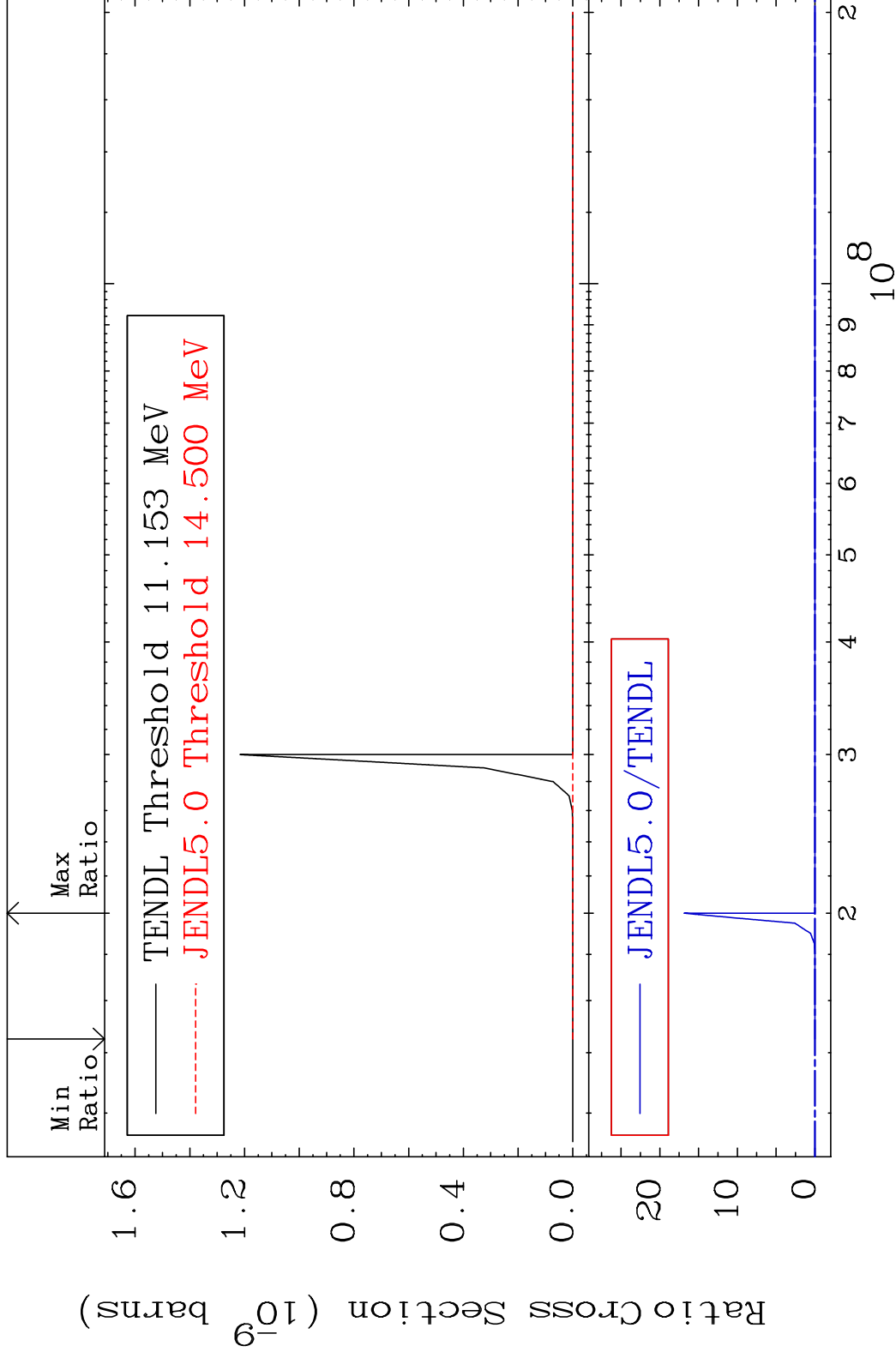


MAT 5537

(n,n') p α

55-Cs-137

Cross Section -100.0 To 9999. %

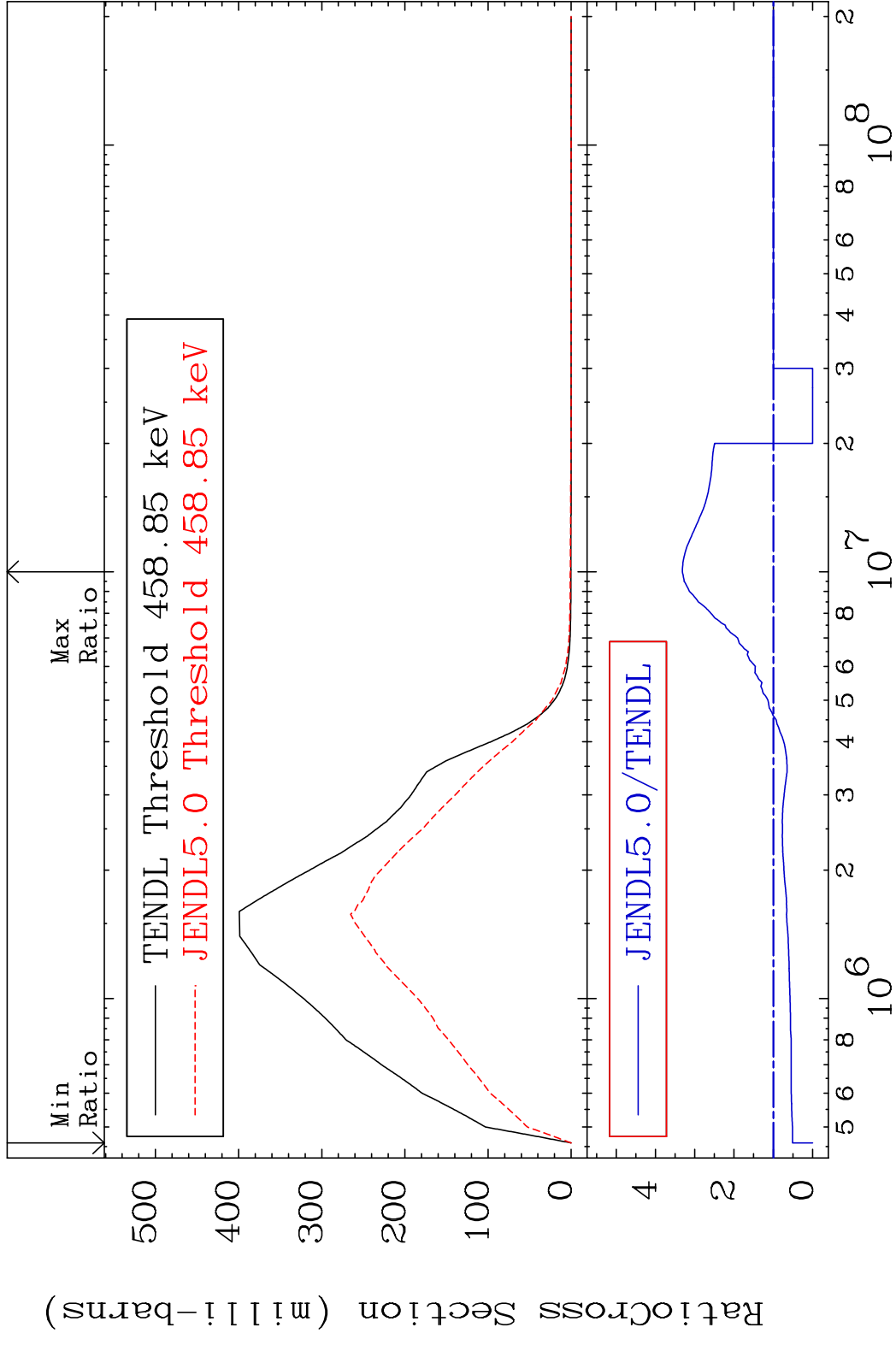


15

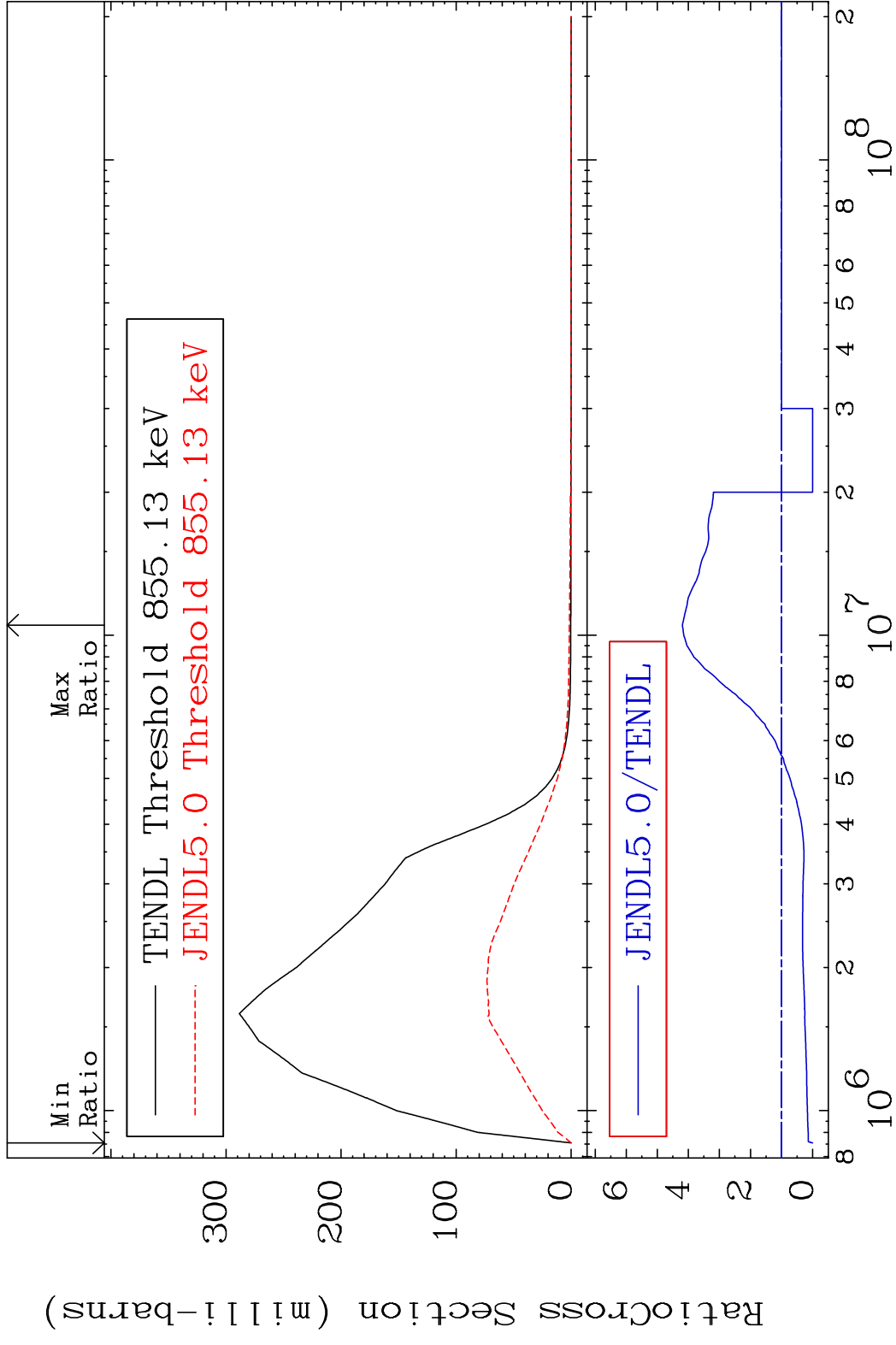
Incident Energy (eV)

55-Cs-137

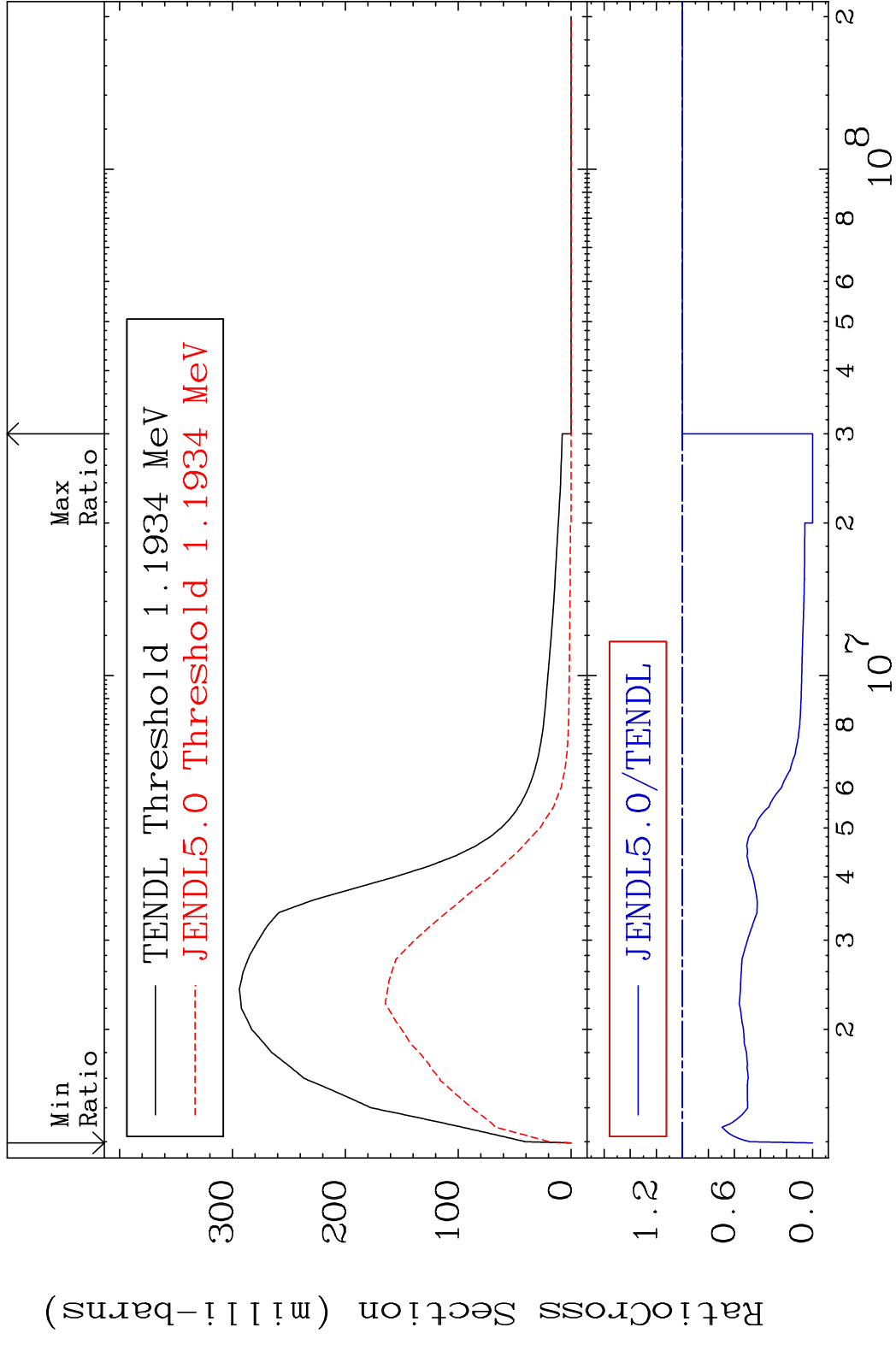
MAT 5537 MT= 51 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 231.5 %



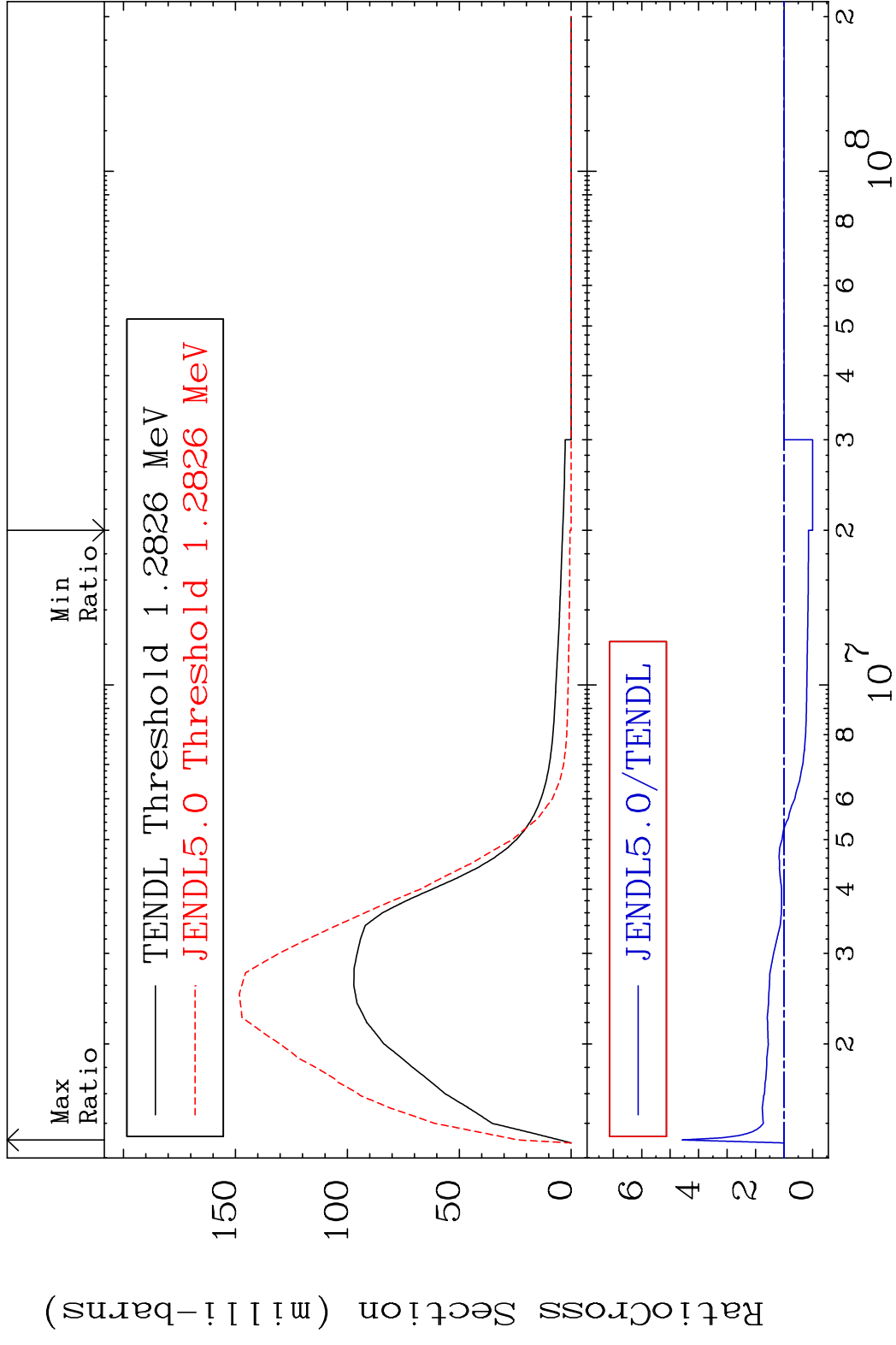
MAT 5537 MT= 52 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 319.4 %



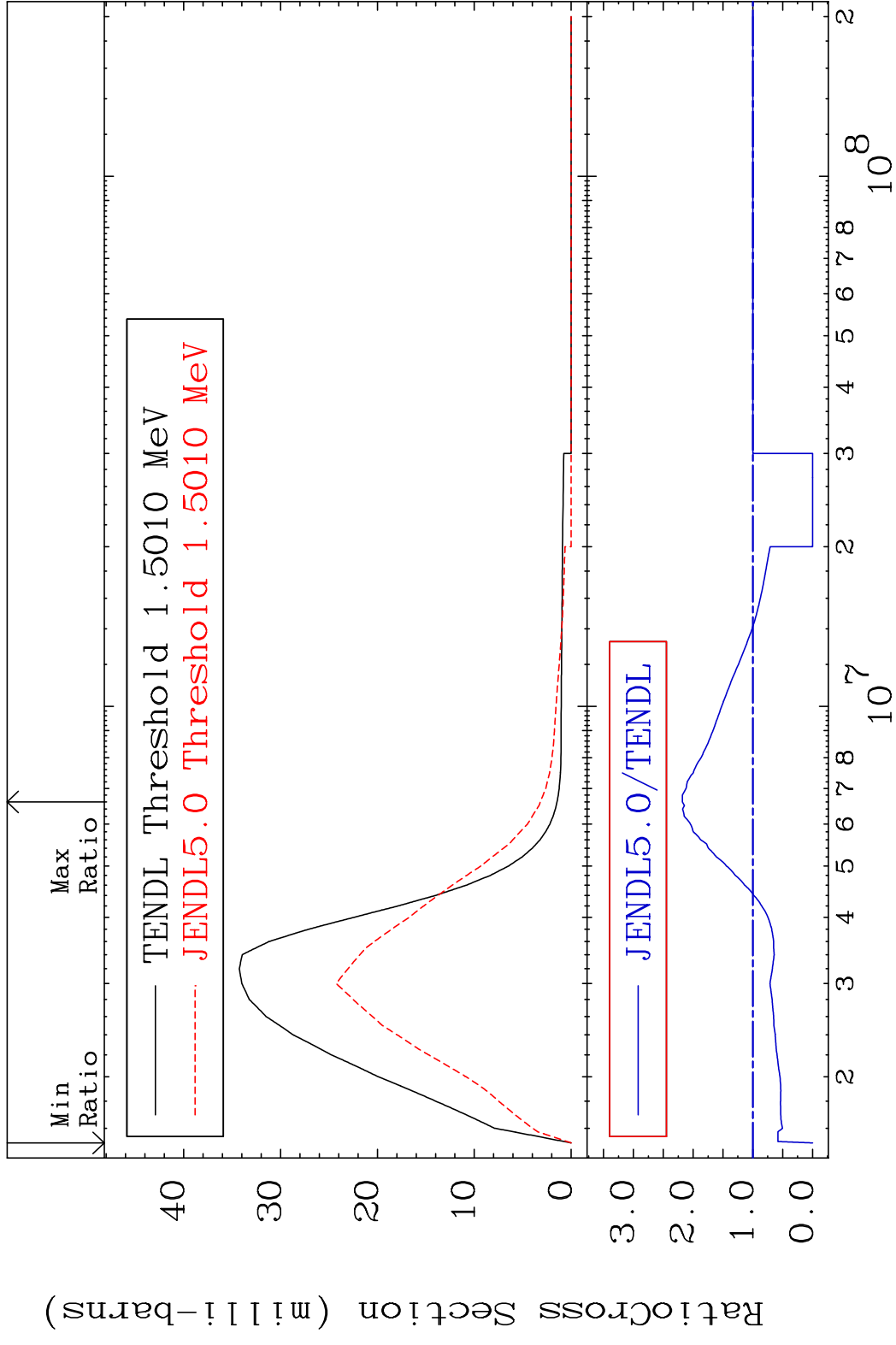
MAT 5537 MT= 53 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 0.000 %



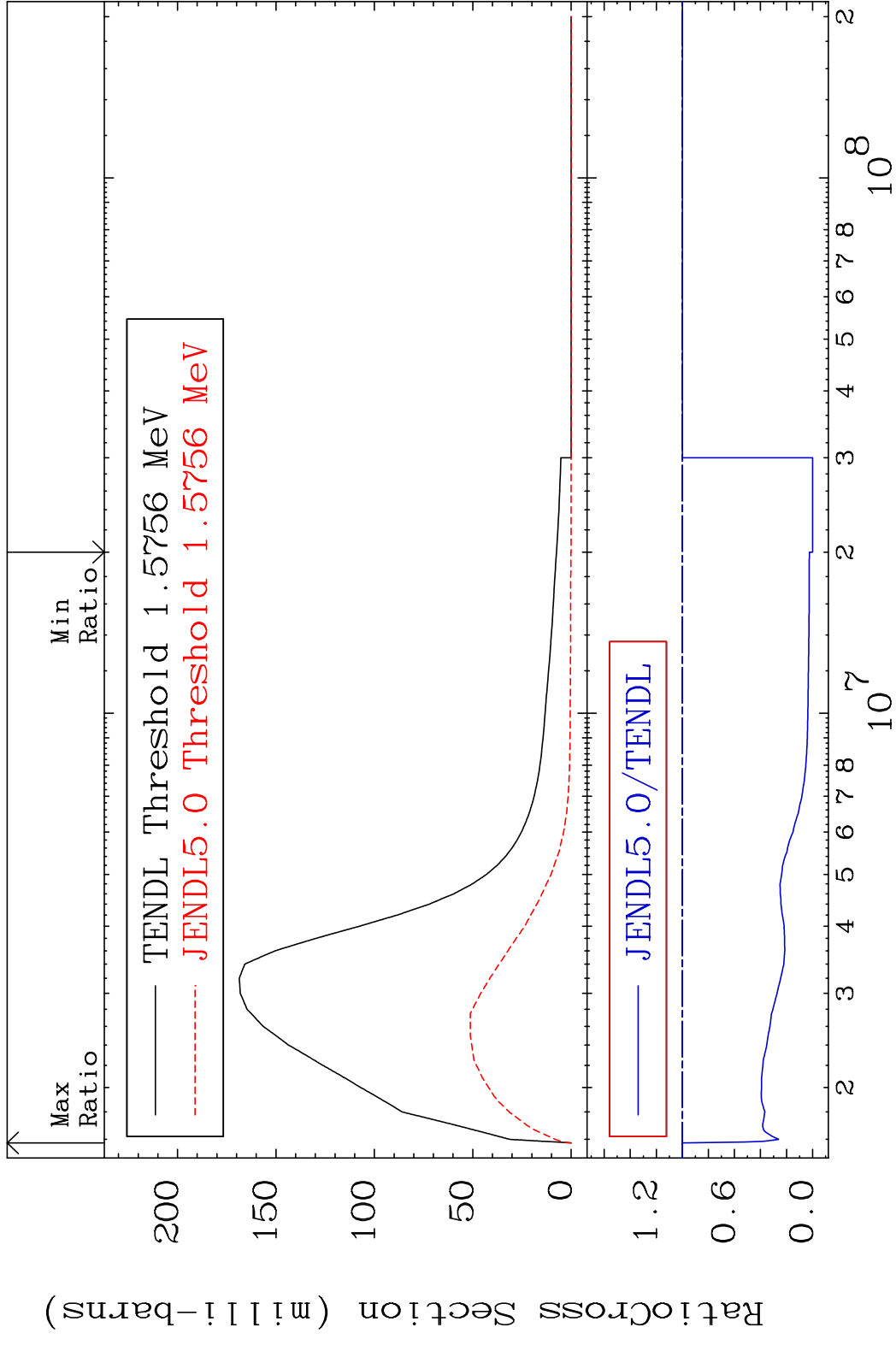
MAT 5537 MT= 54 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 357.2 %



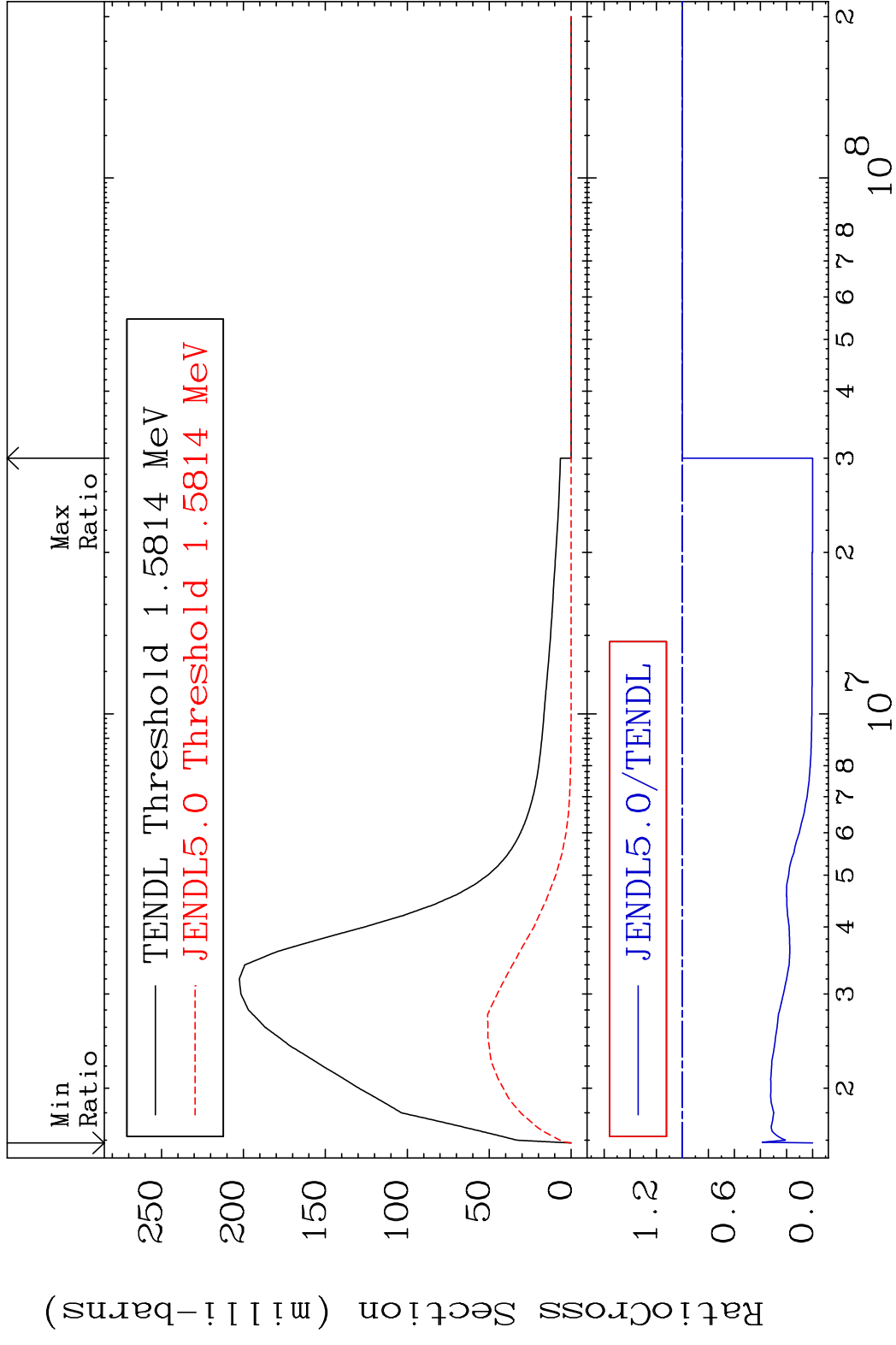
MAT 5537 MT= 55 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 118.1 %



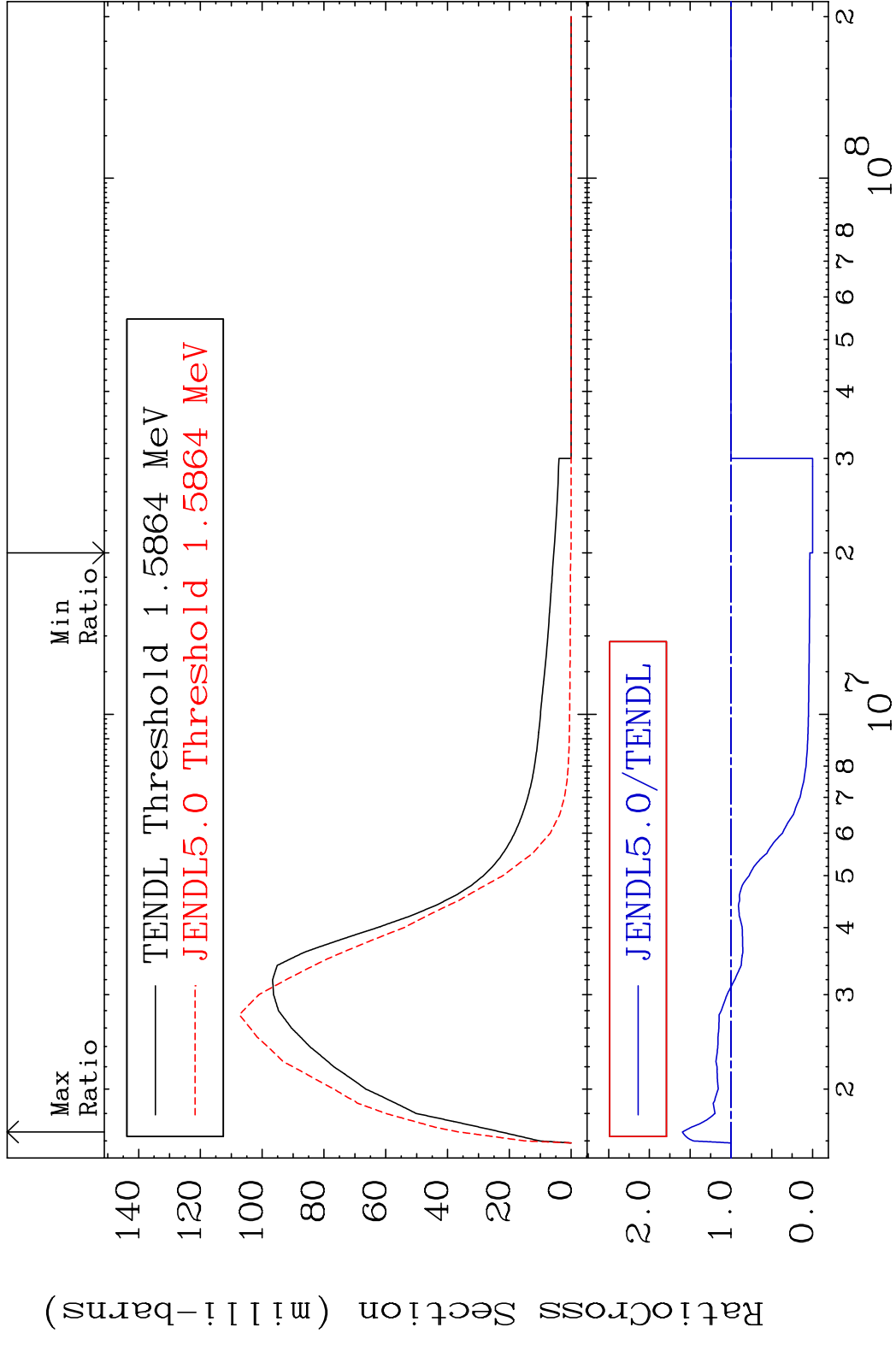
MAT 5537 MT= 56 (n,n') Level 55-Cs-137
 Cross Section -100.0 To 0.000 %



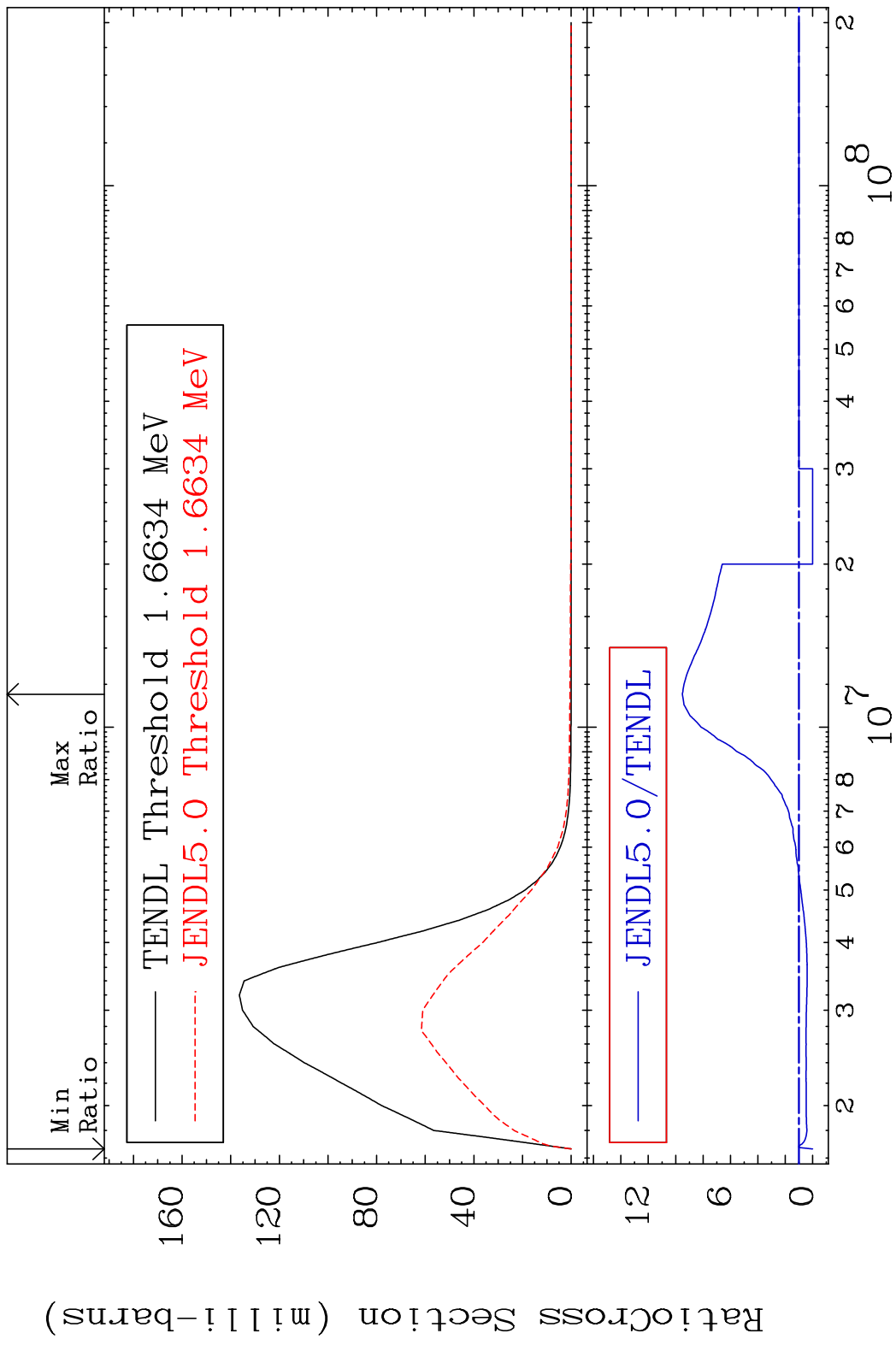
MAT 5537 MT= 57 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 0.000 %



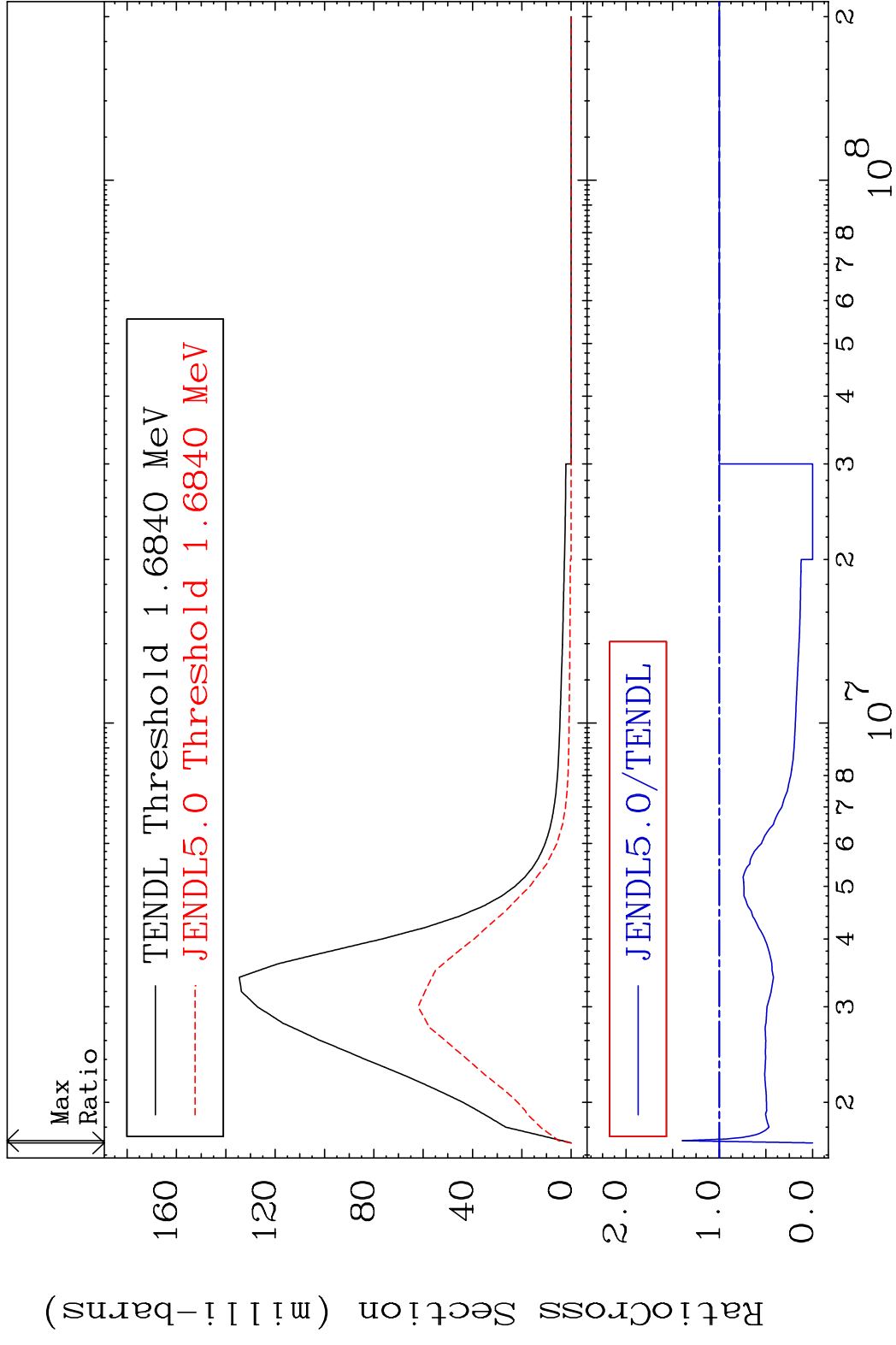
MAT 5537 MT= 58 (n,n') Level 55-Cs-137
 Cross Section -100.0 To 59.62 %



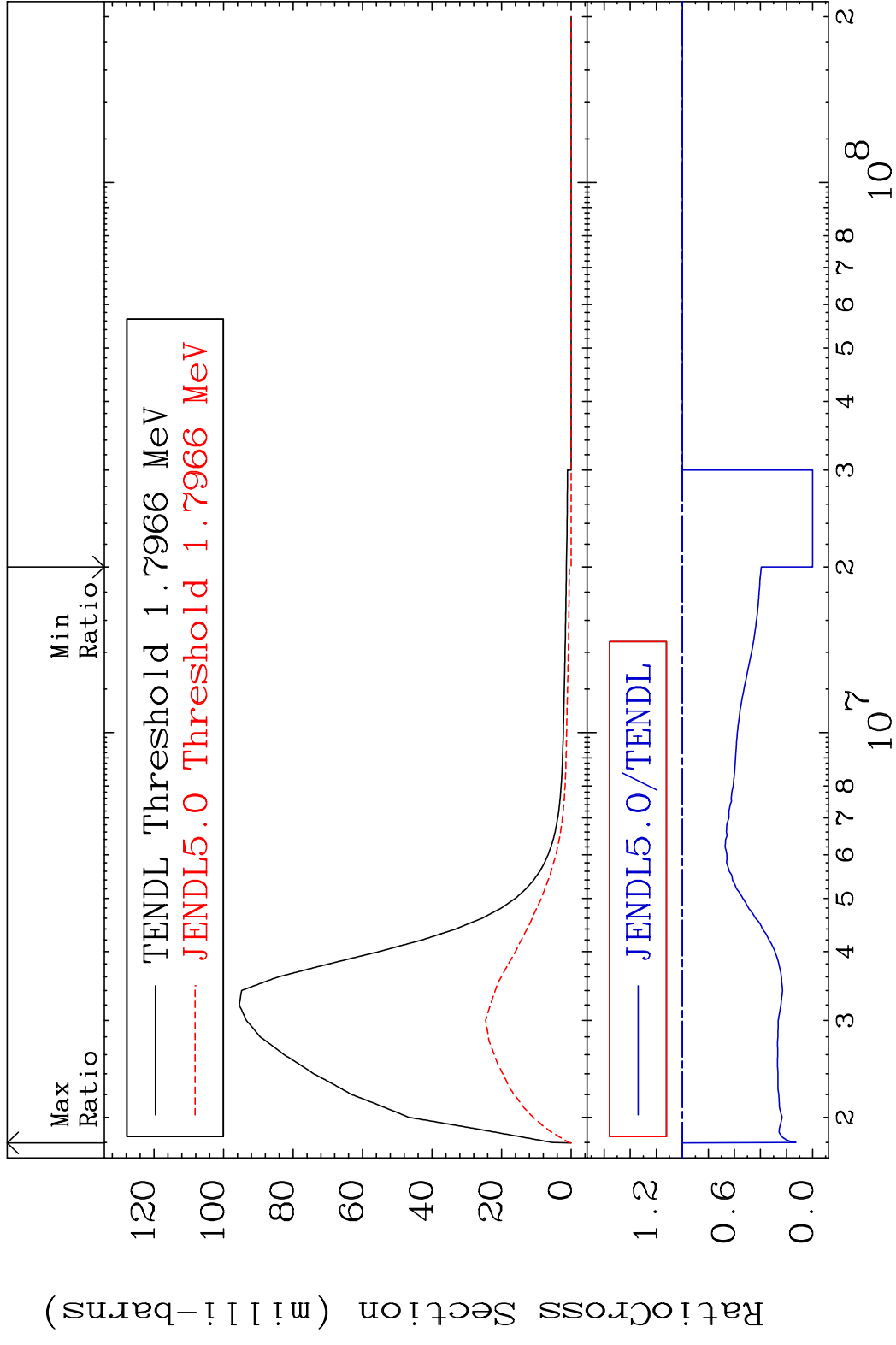
MAT 5537 MT= 59 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 851.2 %



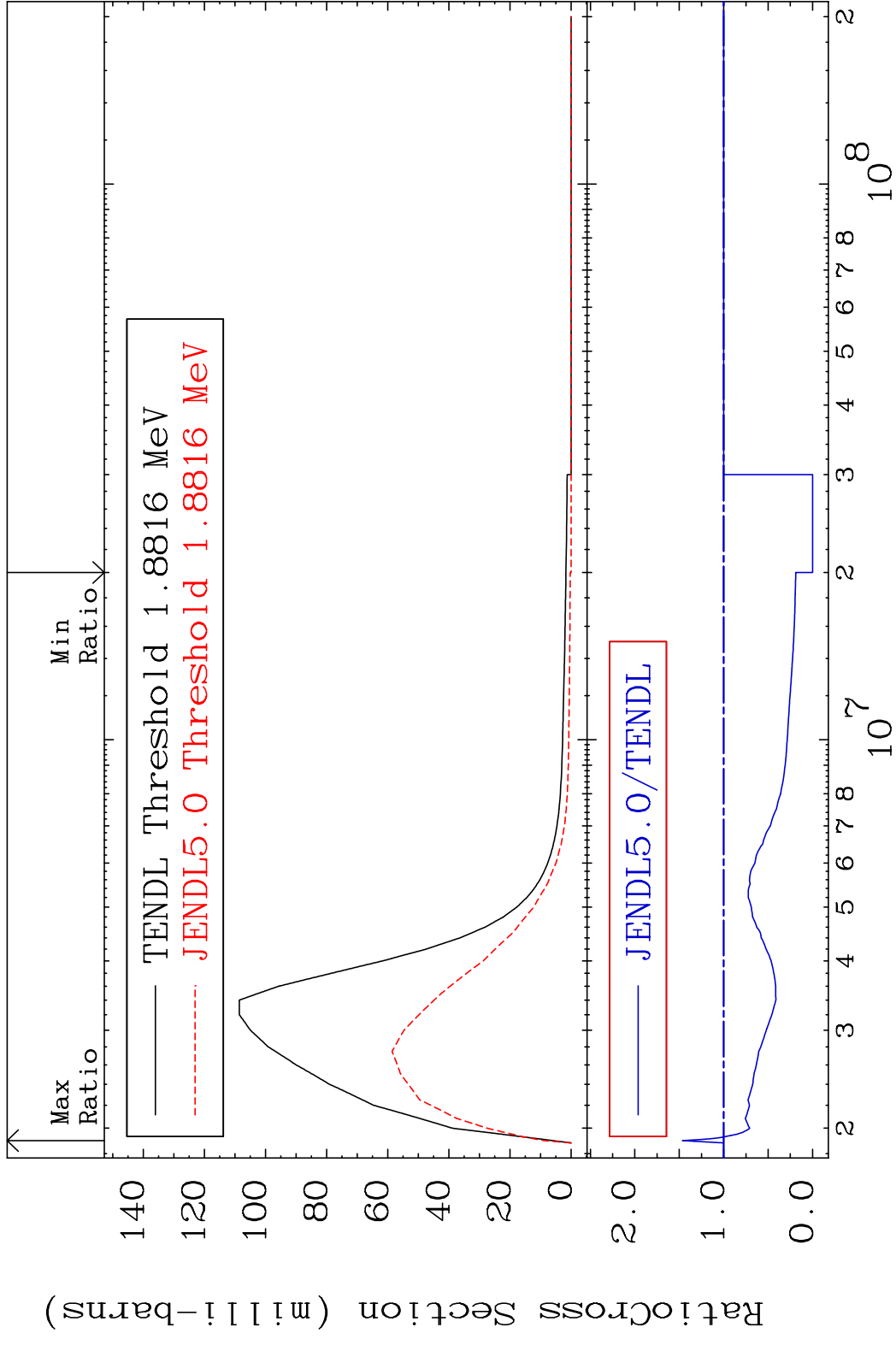
MAT 5537 MT= 60 (n,n') Level 55-Cs-137
 Cross Section -100.0 To 39.58 %



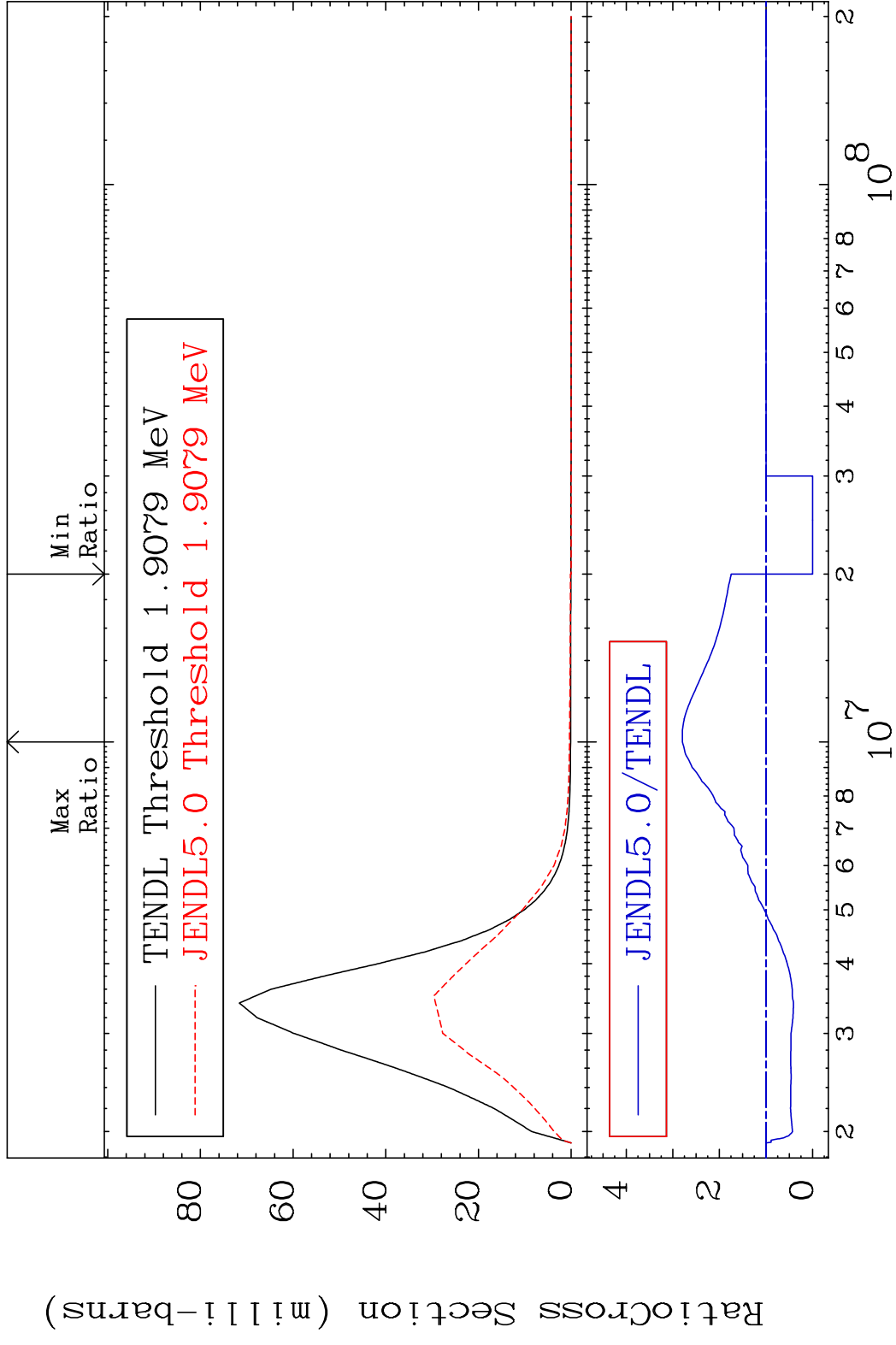
MAT 5537 MT= 61 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 0.000 %



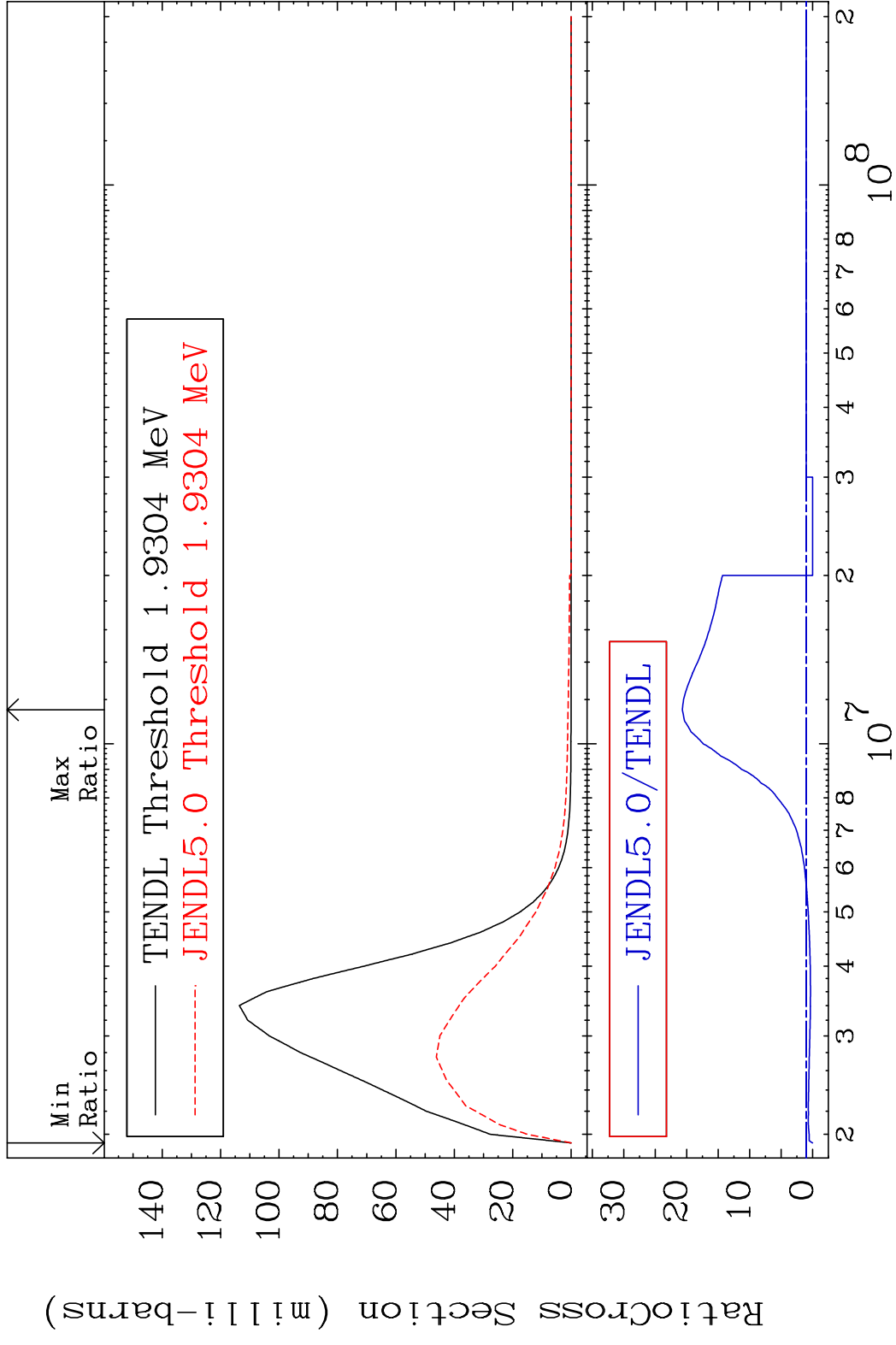
MAT 5537 MT= 62 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 46.52 %



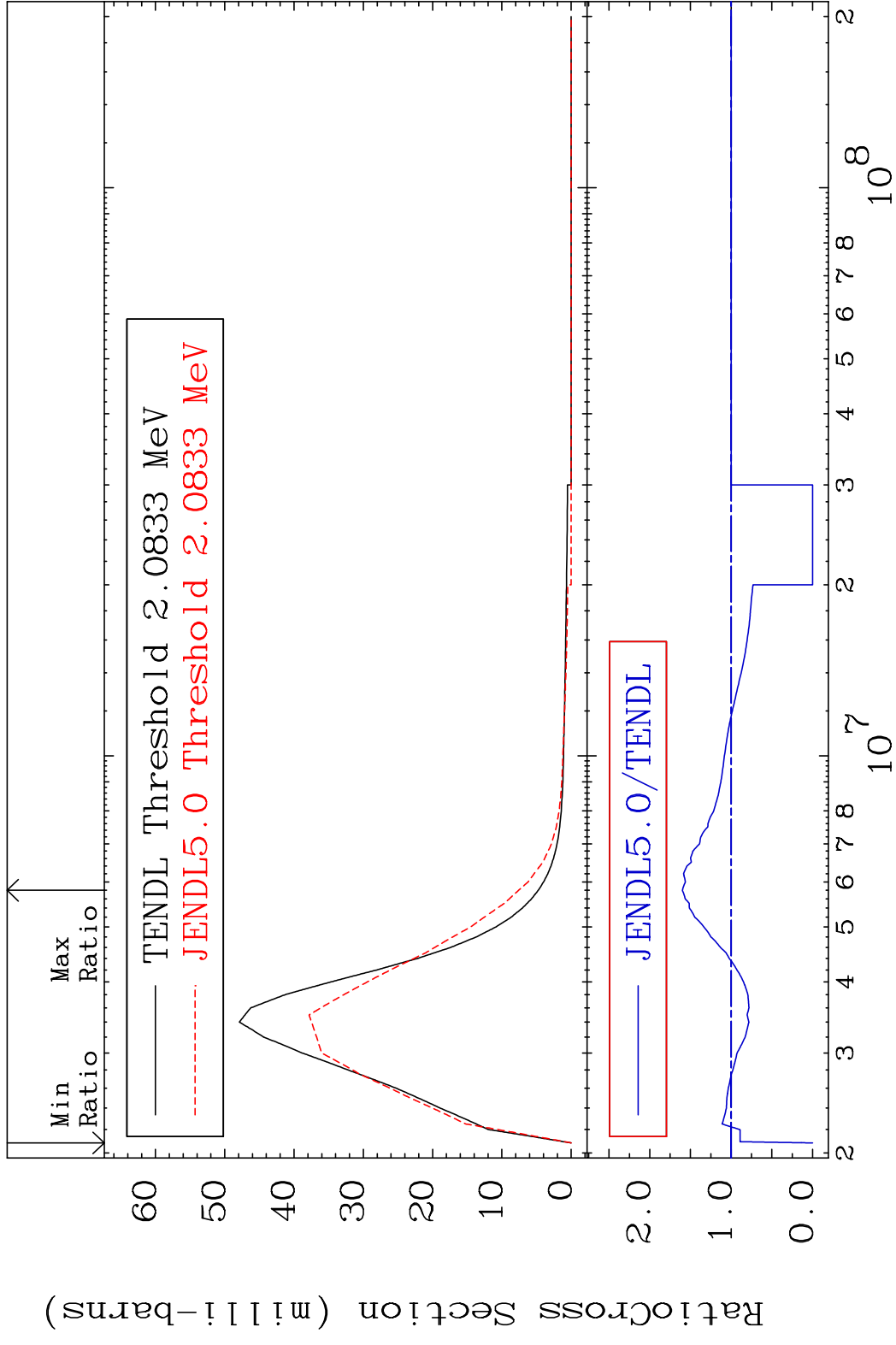
MAT 5537 MT= 63 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 179.6 %



MAT 5537 MT= 64 (n, n') Level 55-Cs-137
 Cross Section -100.0 To 1968. %



MAT 5537 MT= 65 (n,n') Level 55-Cs-137
 Cross Section -100.0 To 59.95 %

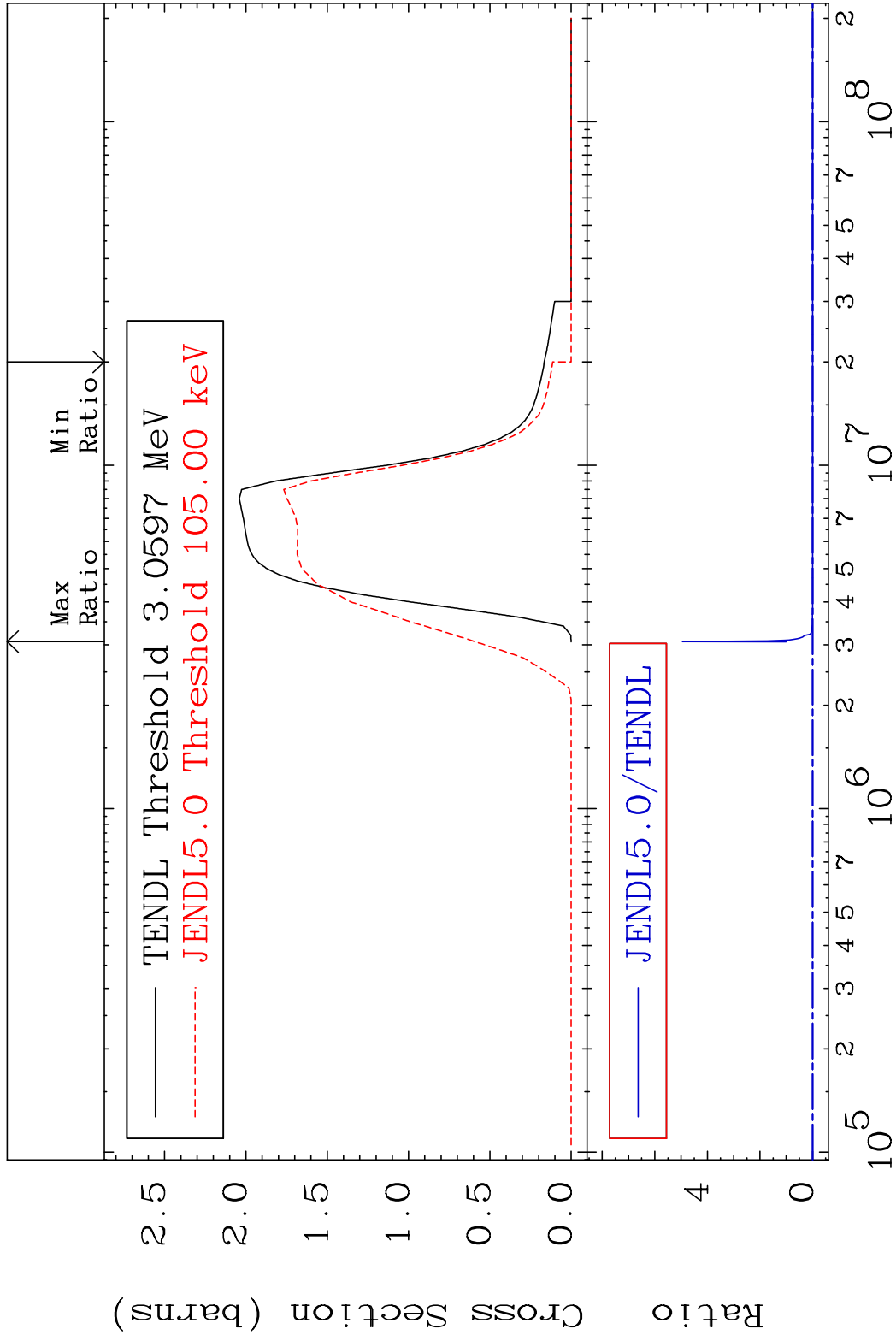


MAT 5537

(n,n') Continuum

55-Cs-137

Cross Section -100.0 To 9999. %



31

Incident Energy (eV)

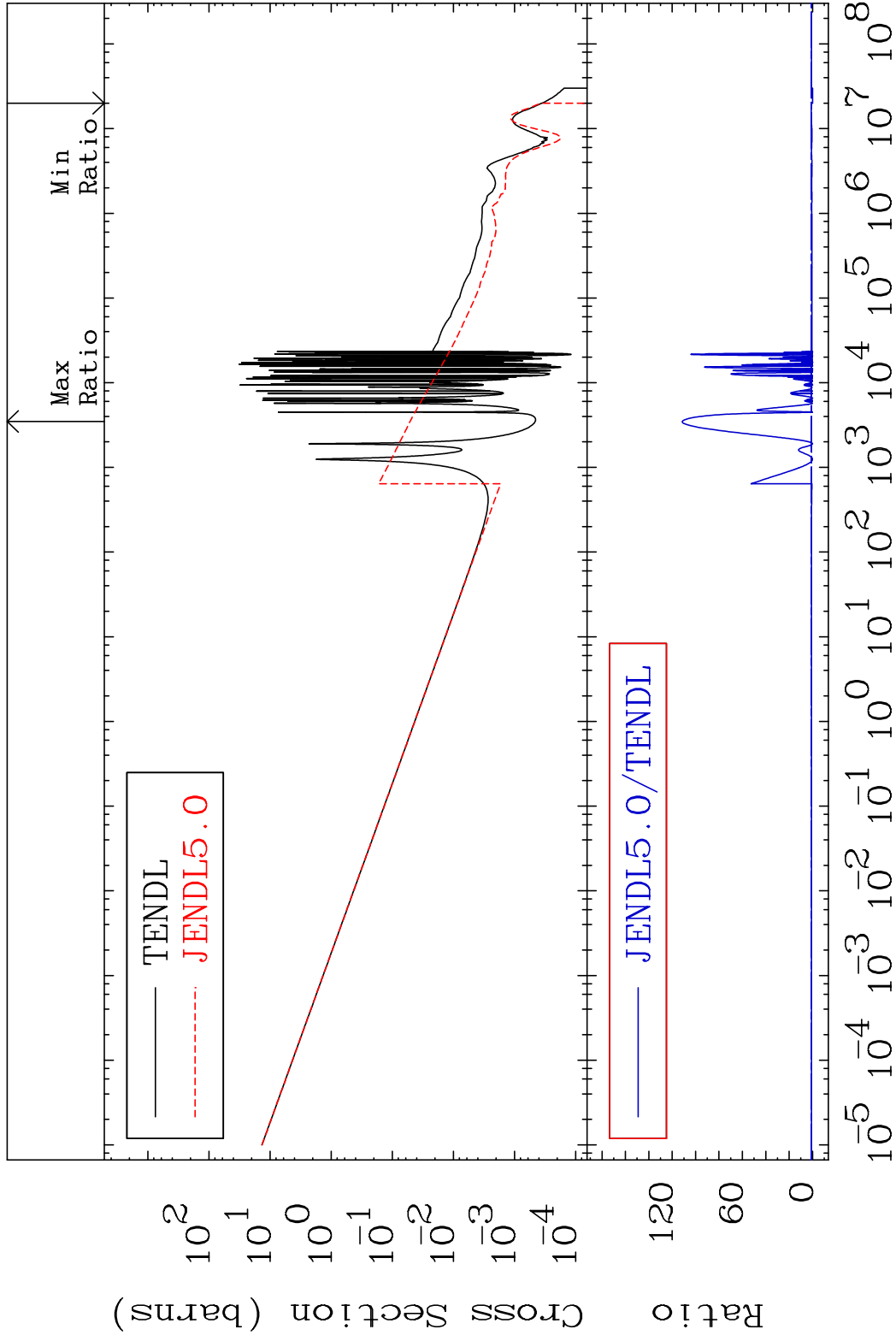
55-Cs-137

MAT 5537

(n, γ)

55-Cs-137

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

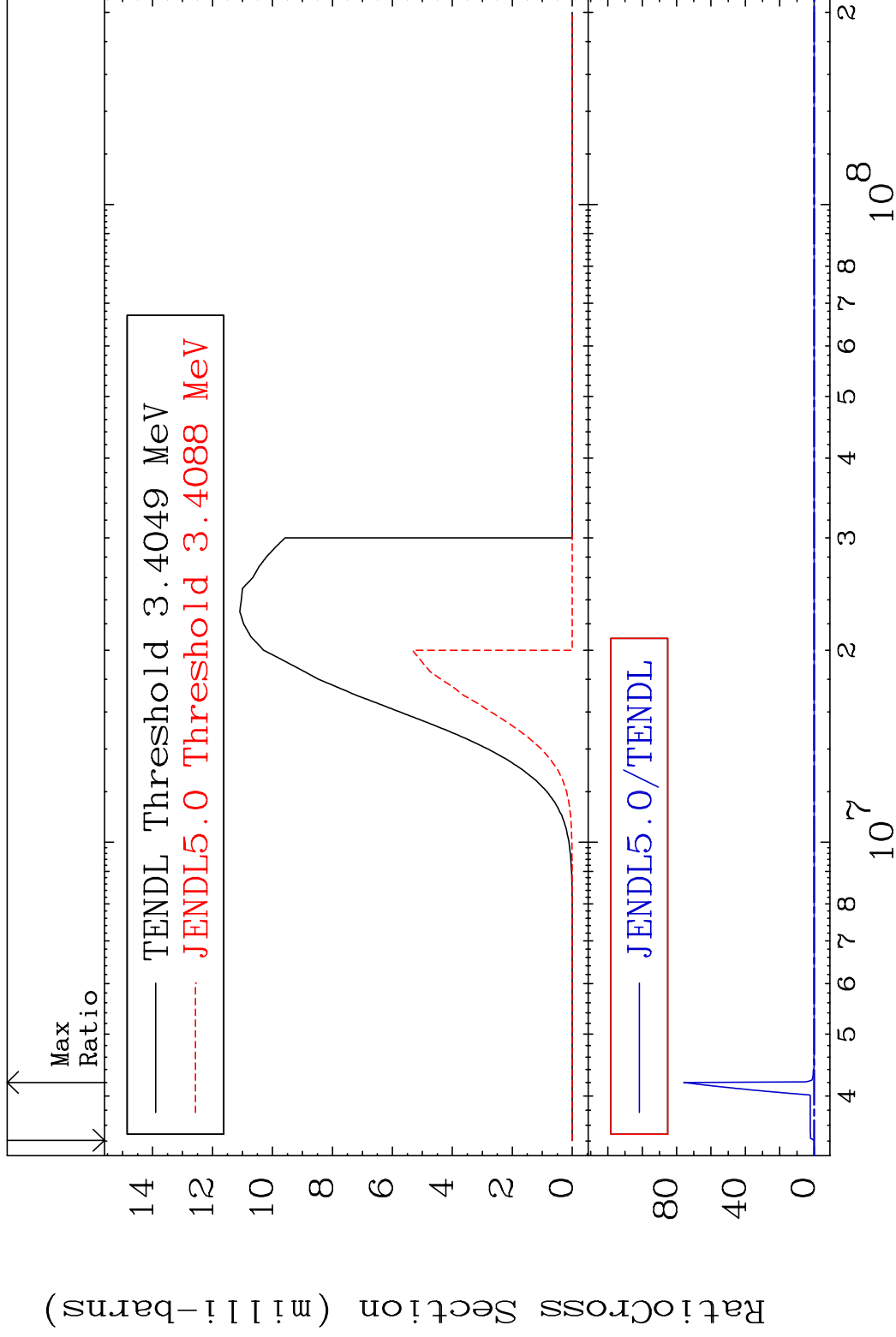
55-Cs-137

MAT 5537

(n,p)

55-Cs-137

Cross Section -100.0 To 9999. %

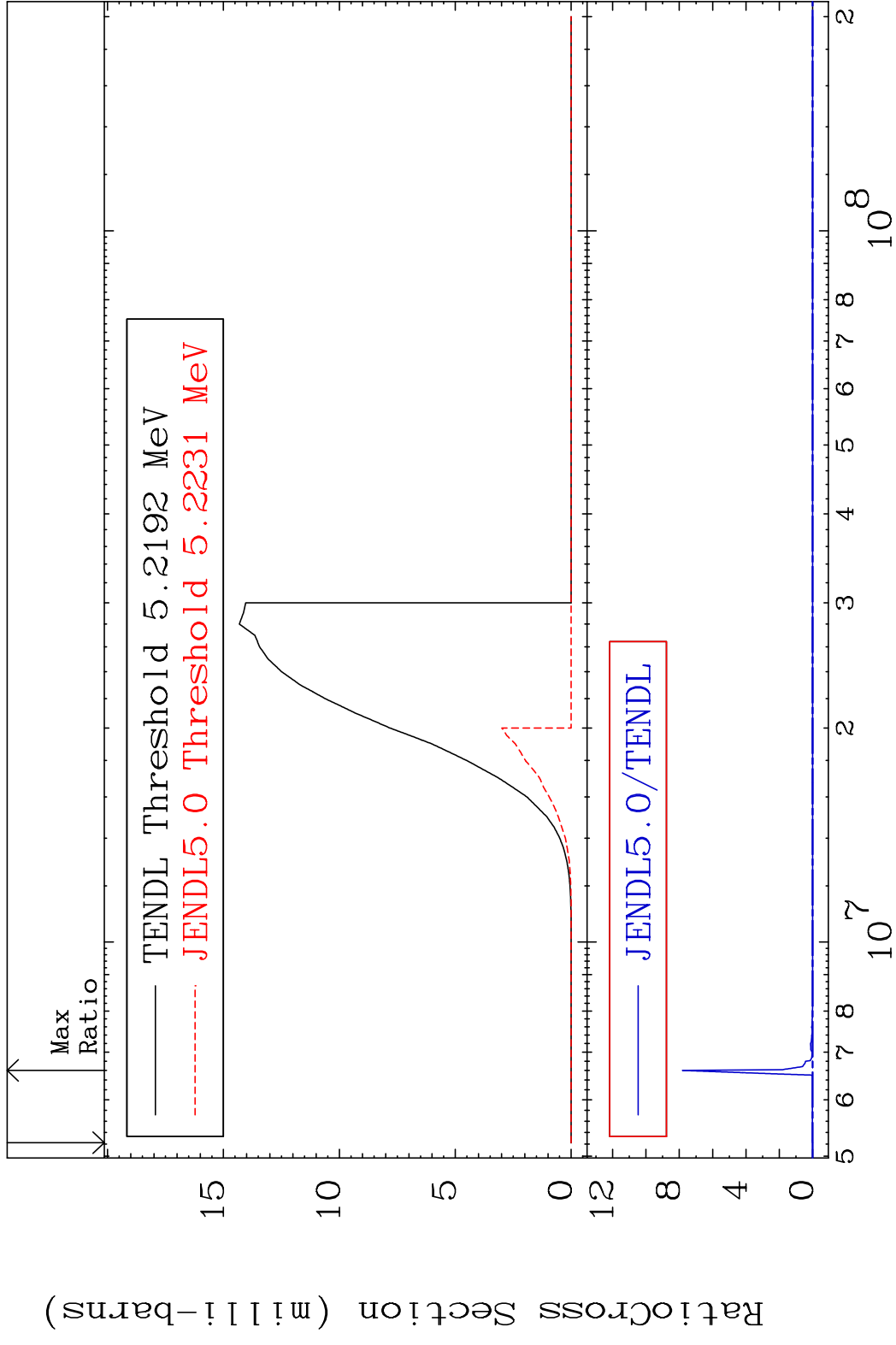


33

Incident Energy (eV)

55-Cs-137

MAT 5537 (n,d) 55-Cs-137
 Cross Section -100.0 To 9999. %



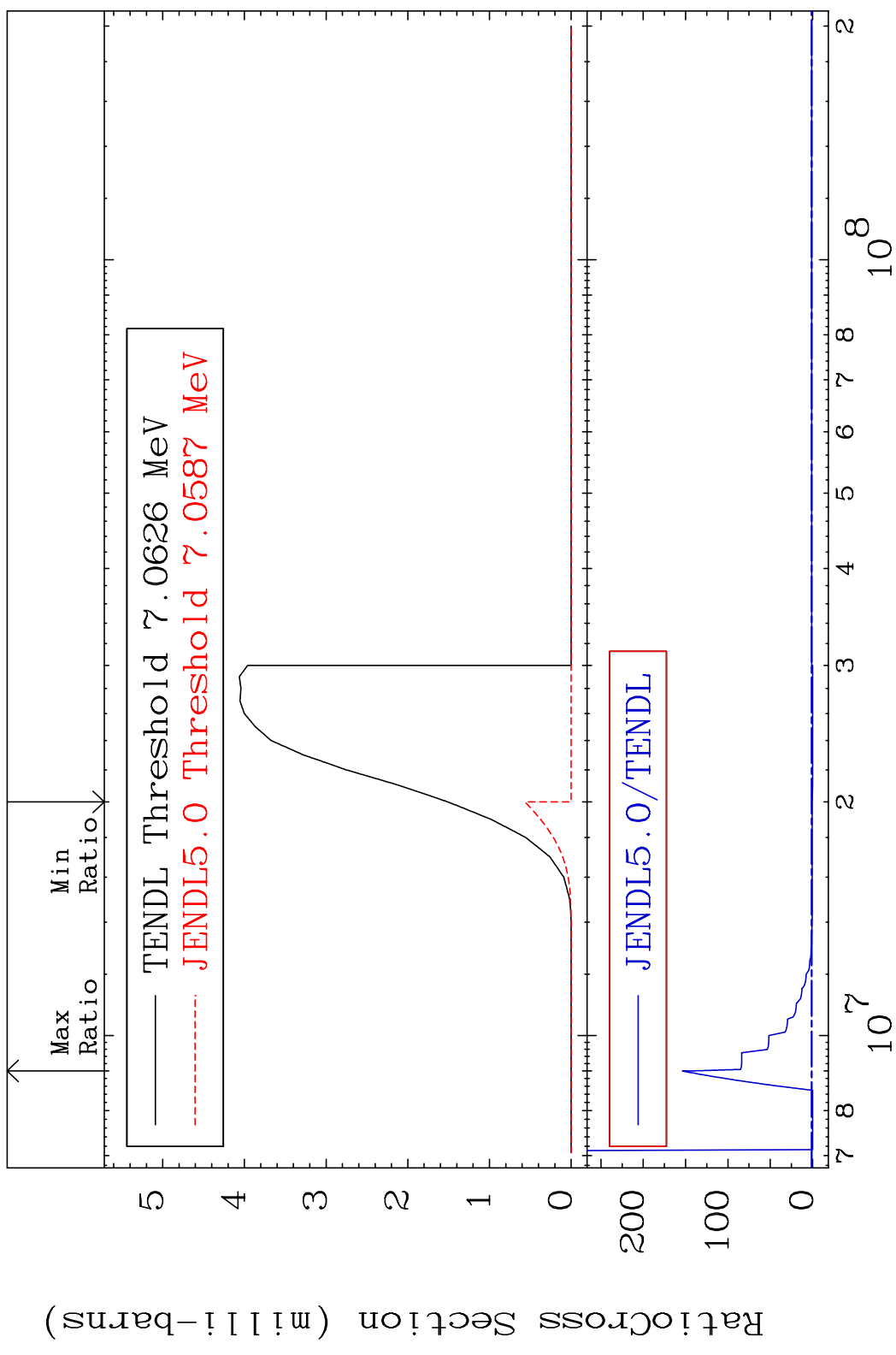
34 Incident Energy (eV) 55-Cs-137

MAT 5537

(n, t)

55-Cs-137

Cross Section -100.0 To 9999. %



35

Incident Energy (eV)

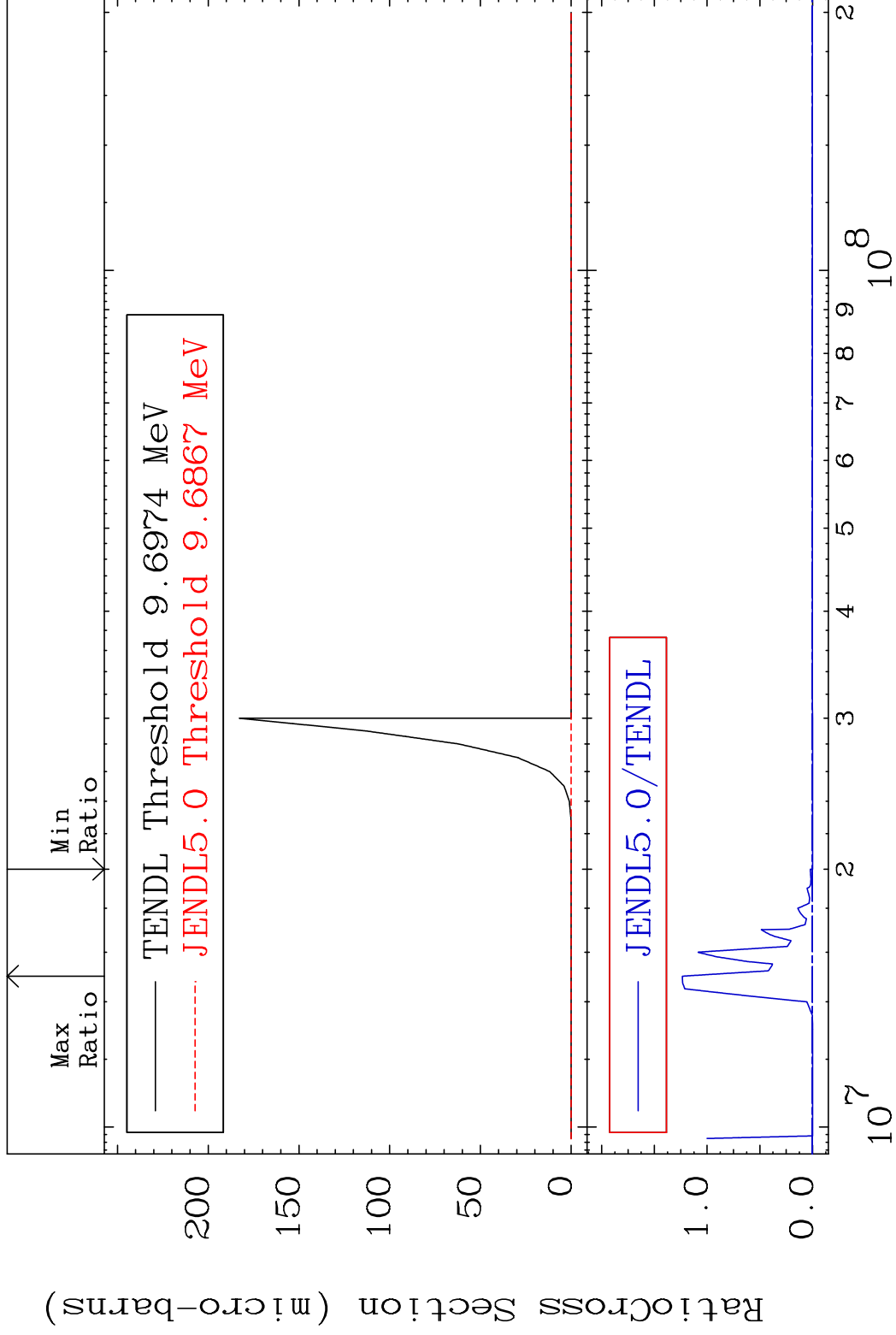
55-Cs-137

MAT 5537

(n, He-3)

55-Cs-137

Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

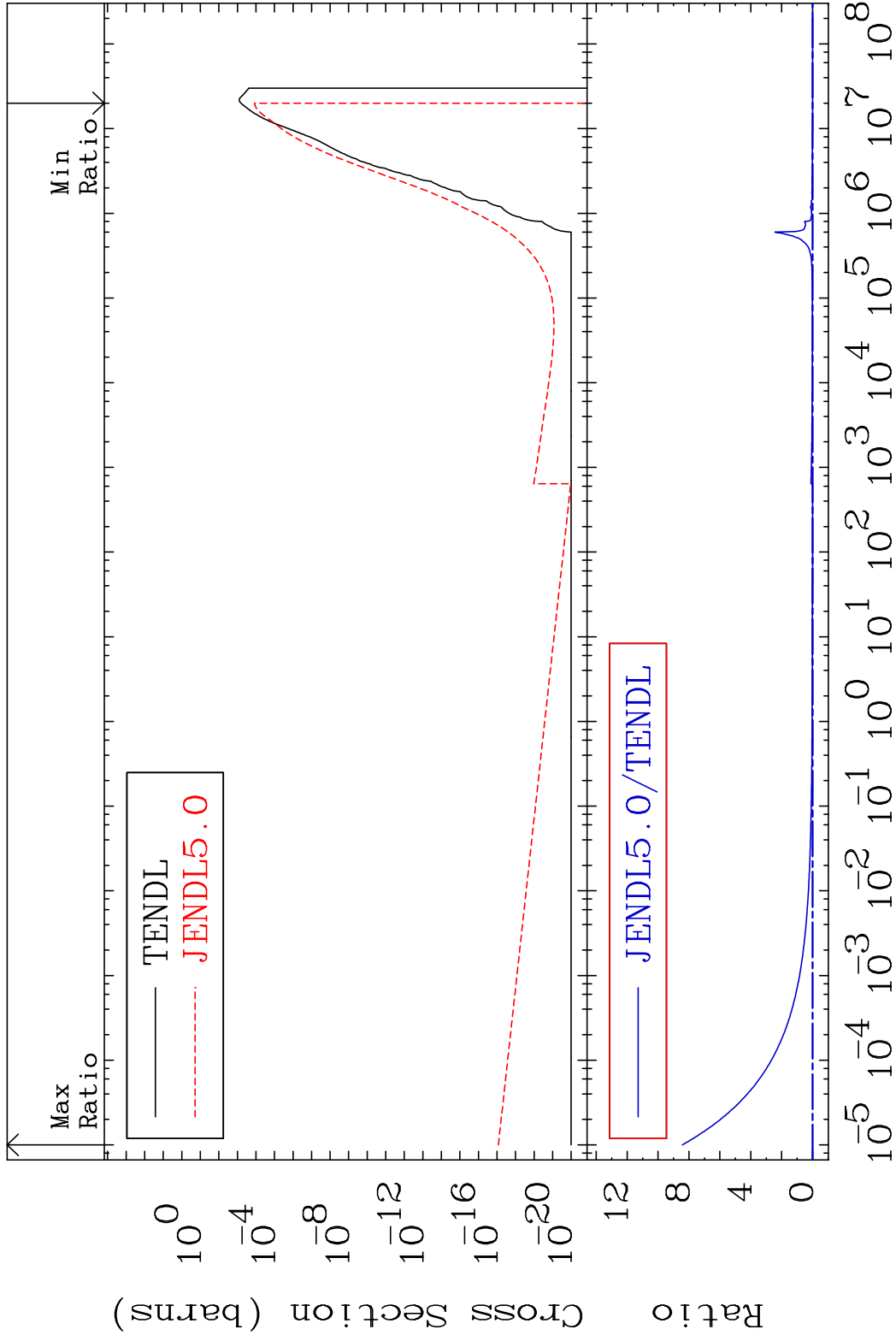
55-Cs-137

MAT 5537

(n, α)

55-Cs-137

Cross Section -100.0 To 9999. %



37

Incident Energy (eV)

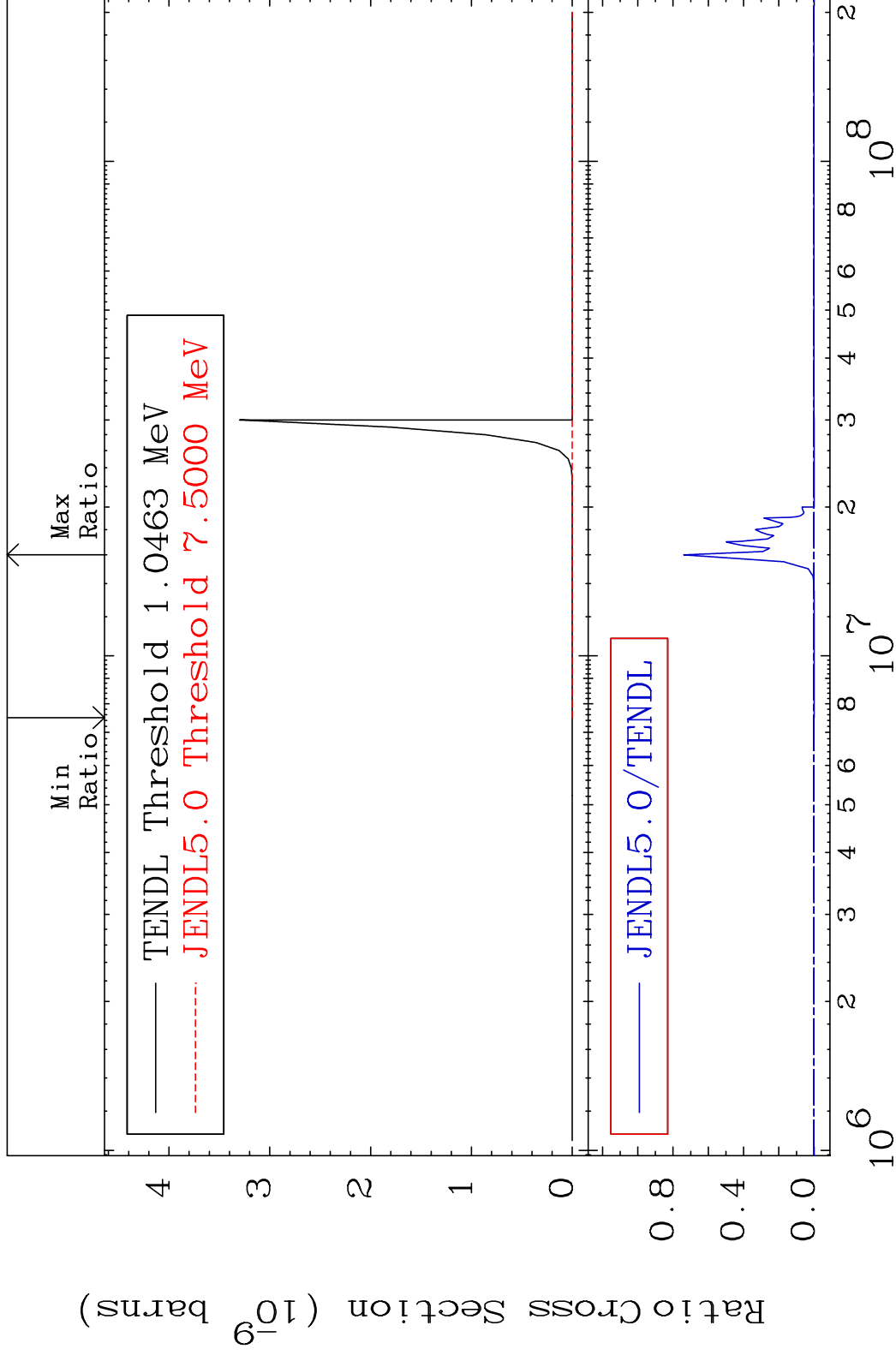
55-Cs-137

MAT 5537

(n,2α)

55-Cs-137

Cross Section -100.0 To 9999. %



38

Incident Energy (eV)

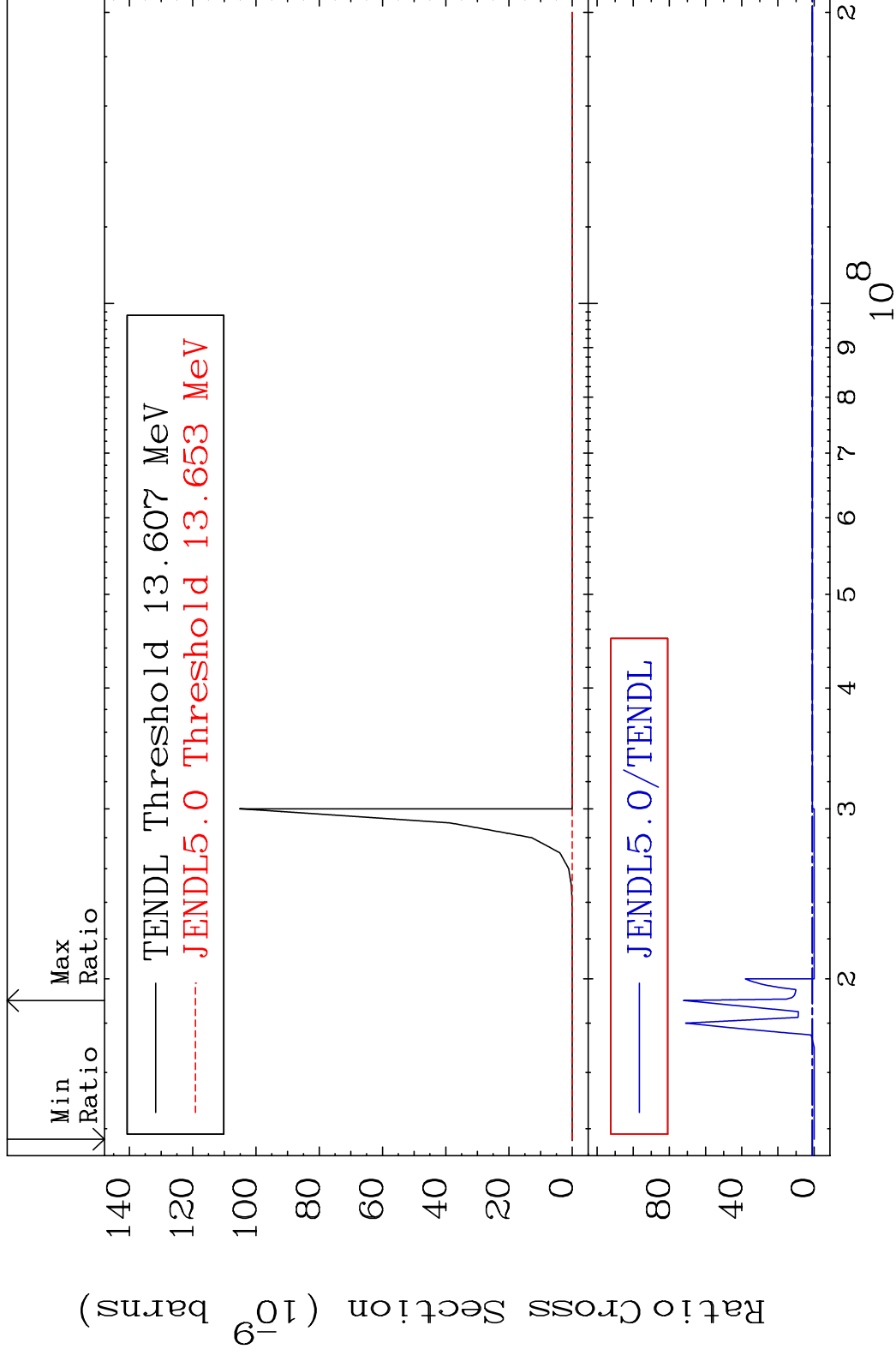
55-Cs-137

MAT 5537

(n,2p)

55-Cs-137

Cross Section -100.0 To 7110. %



39

Incident Energy (eV)

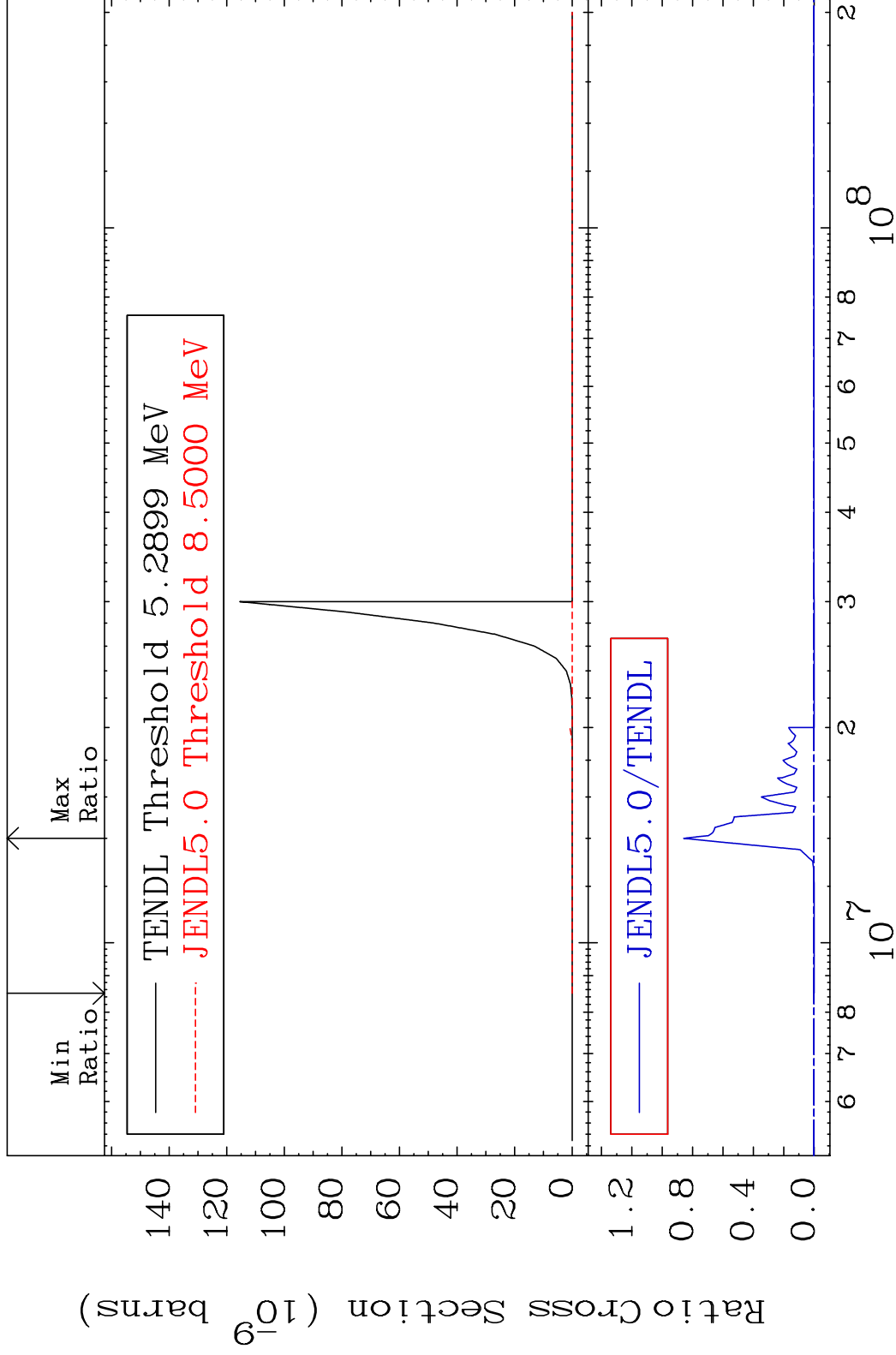
55-Cs-137

MAT 5537

(n,p) α

55-Cs-137

Cross Section -100.0 To 9999. %

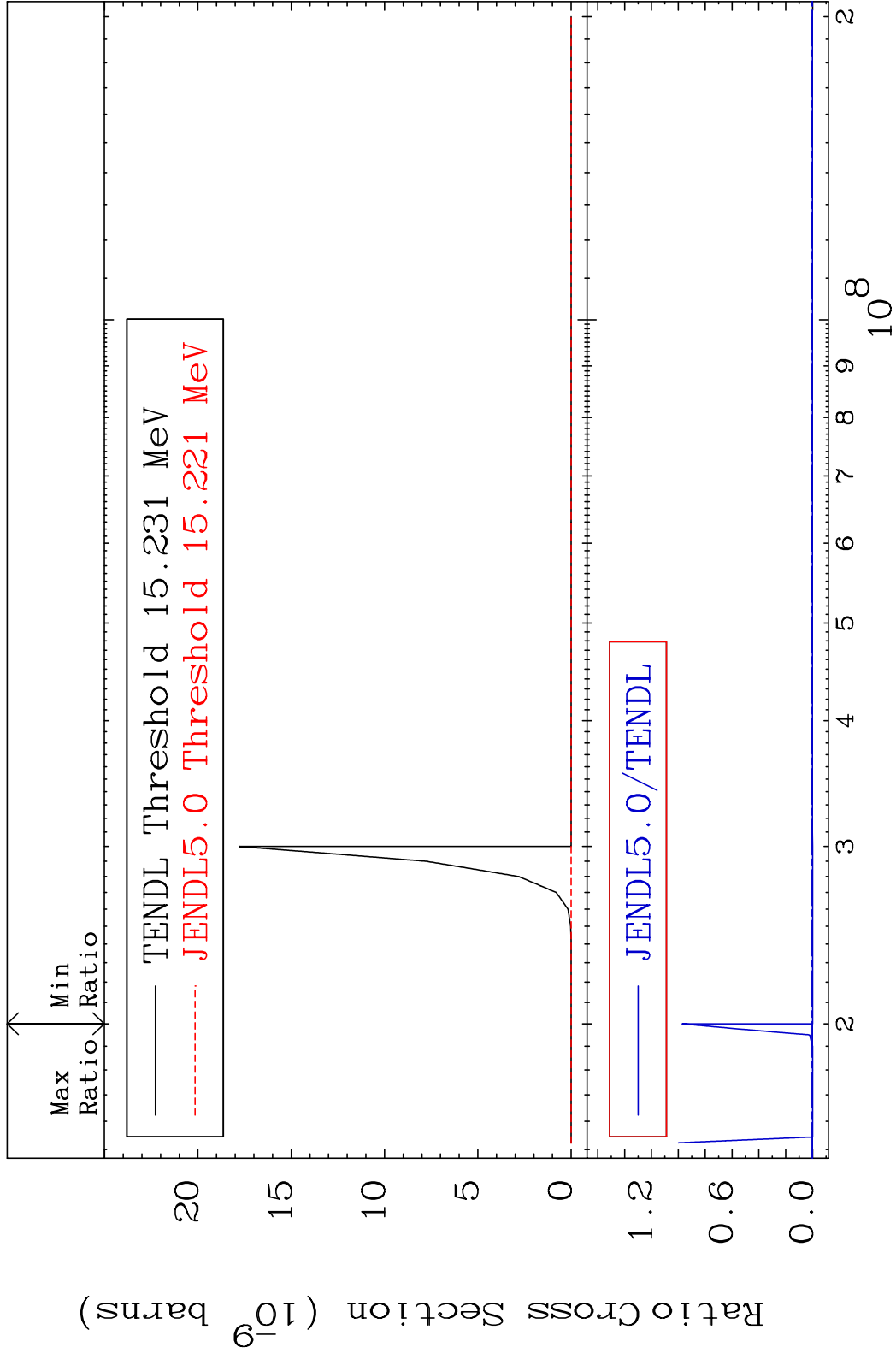


40

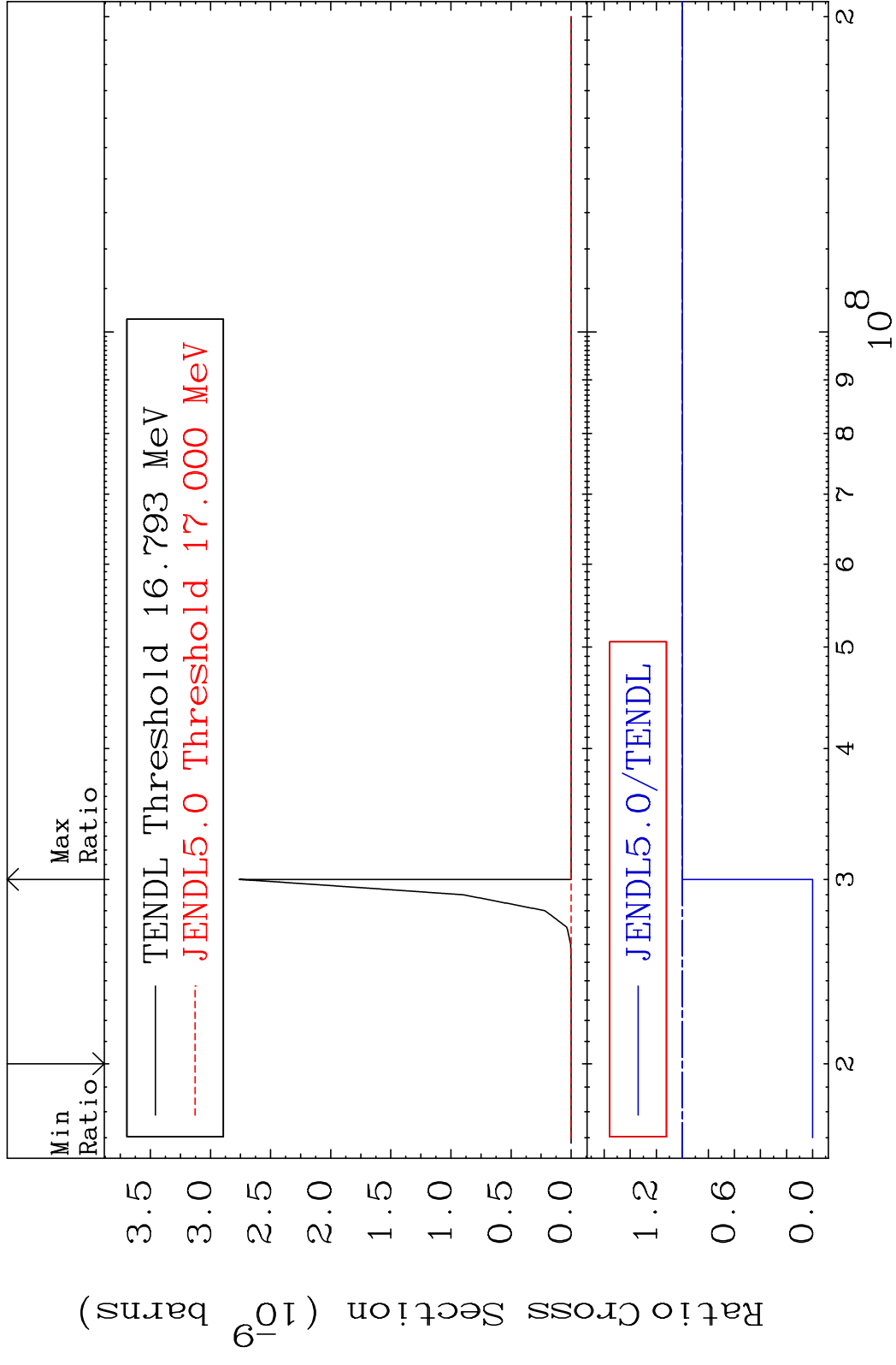
Incident Energy (eV)

55-Cs-137

MAT 5537 (n,p) d 55-Cs-137
 Cross Section -100.0 To 9999. %



MAT 5537 (n,p) t 55-Cs-137
 Cross Section -100.0 To 0.000 %

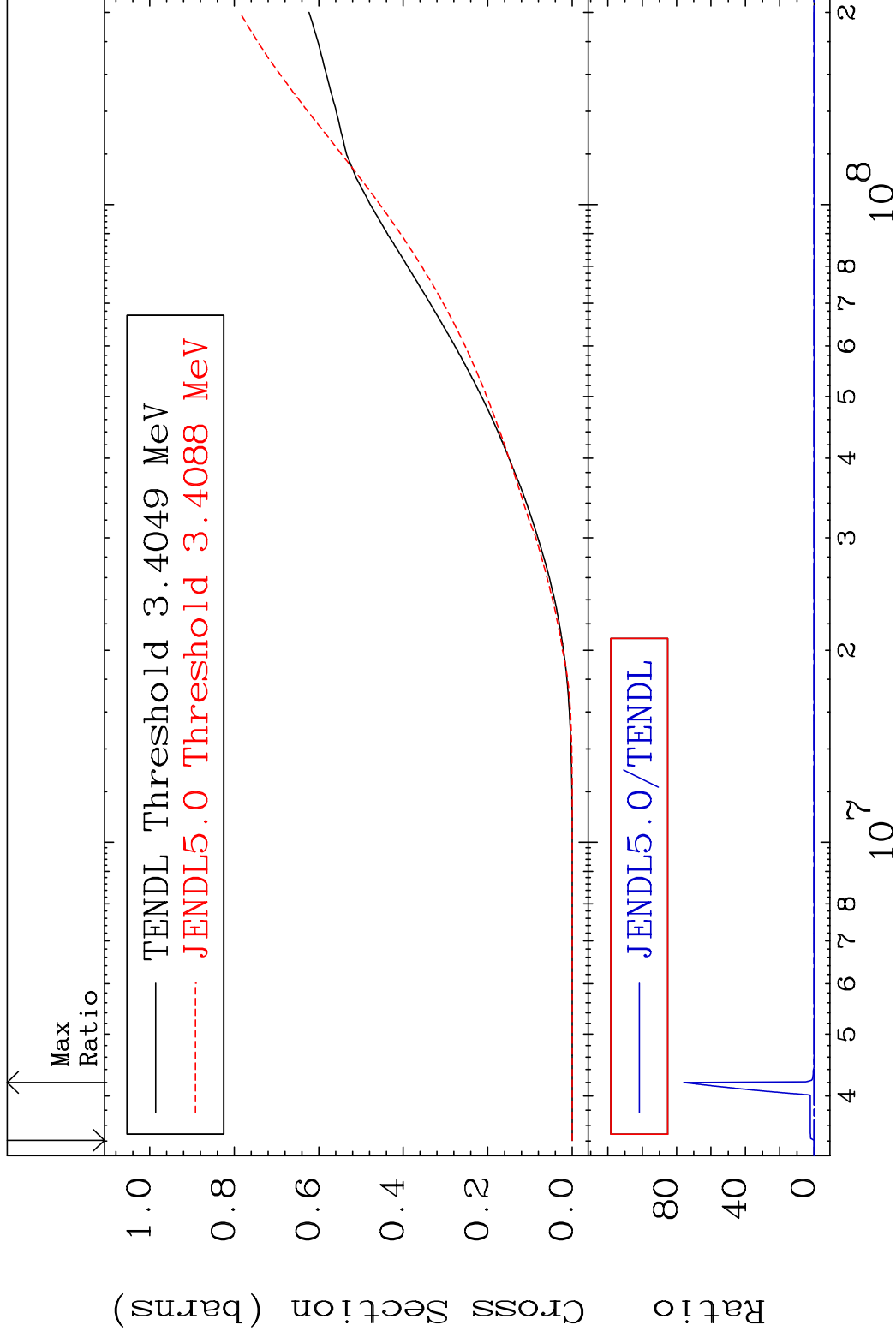


MAT 5537

Hydrogen Production

55-Cs-137

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

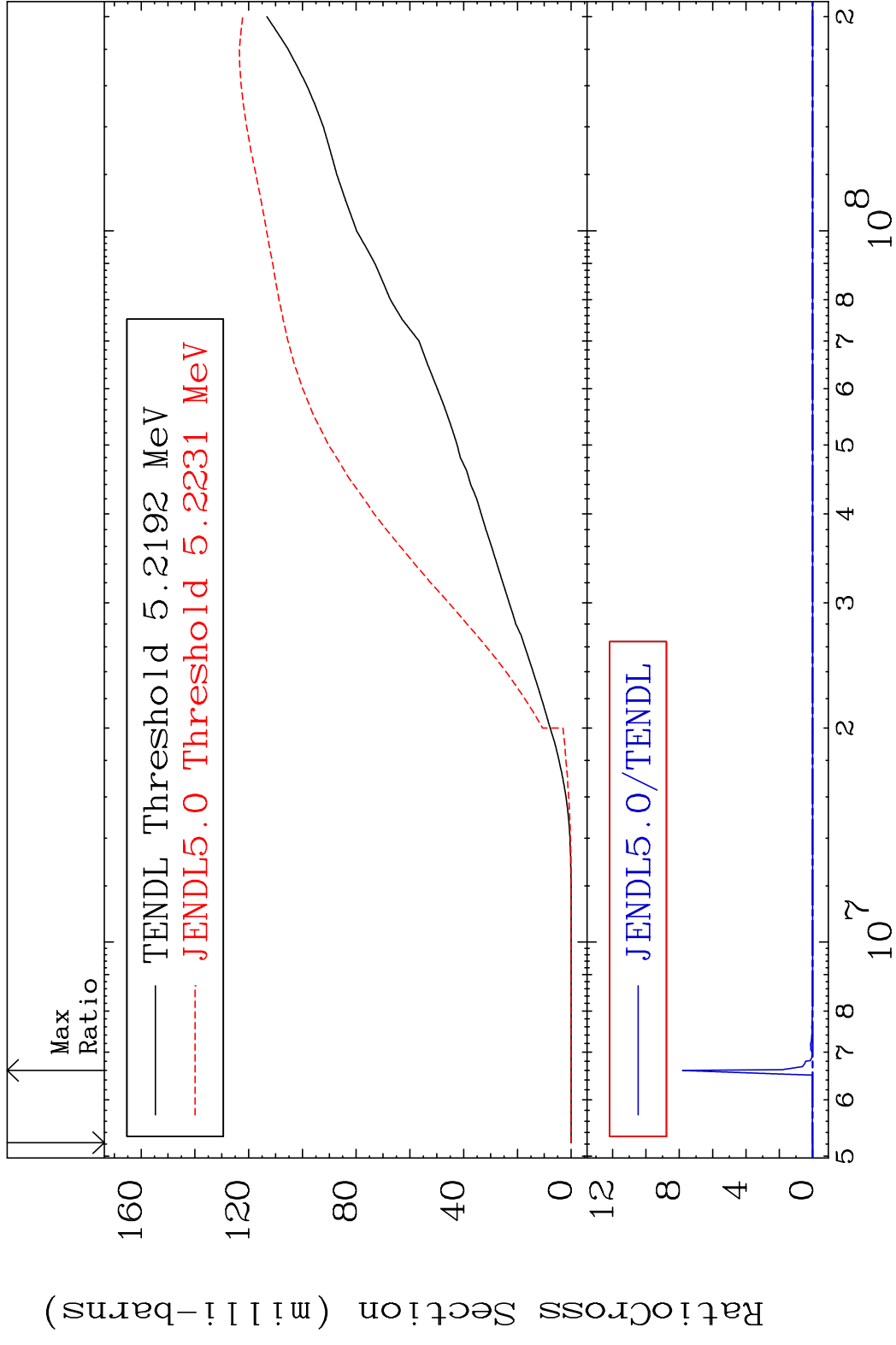
55-Cs-137

MAT 5537

Deuterium Production

55-Cs-137

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

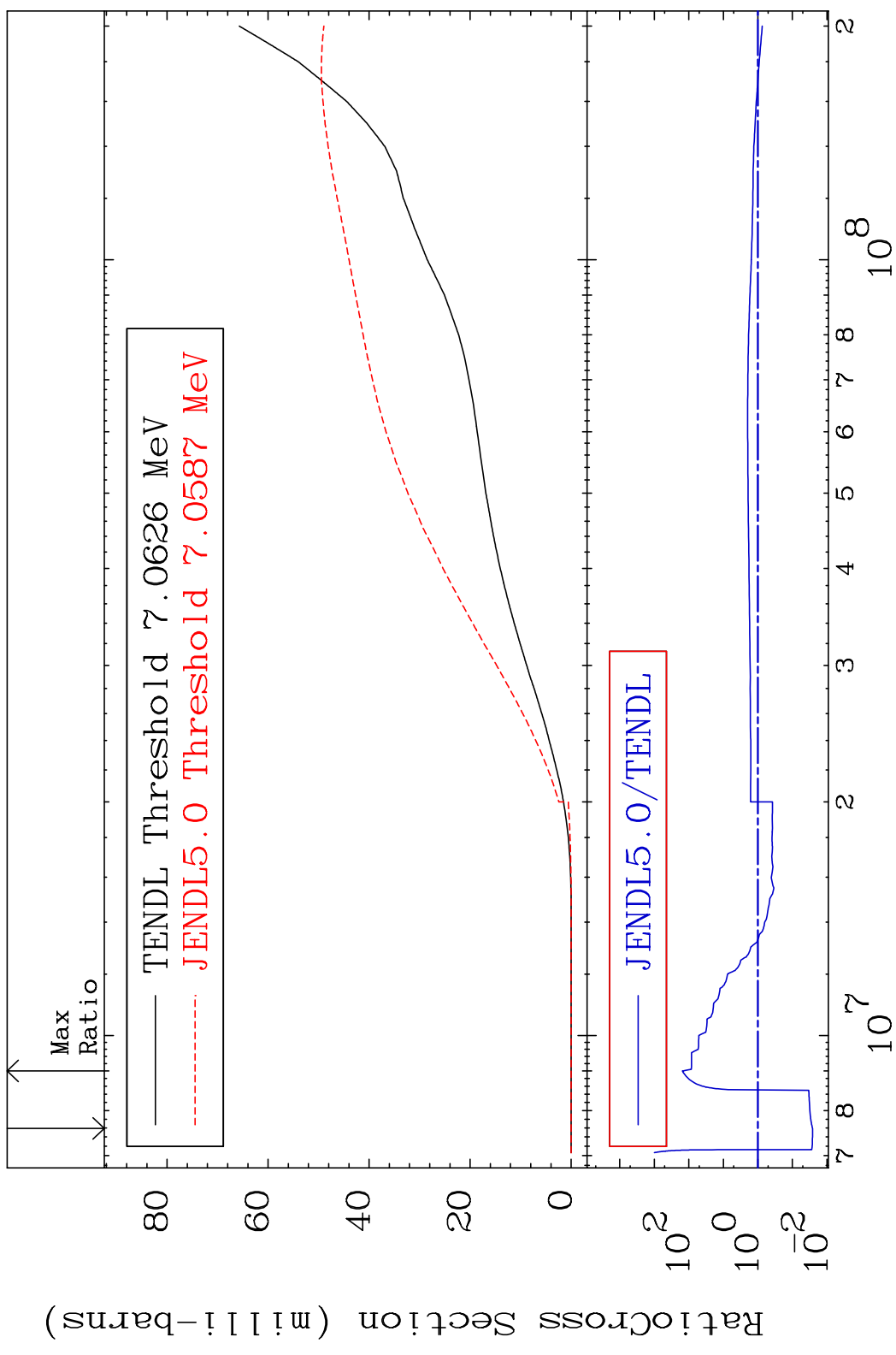
55-Cs-137

MAT 5537

Tritium Production

55-Cs-137

Cross Section -97.40 To 9999. %



45

Incident Energy (eV)

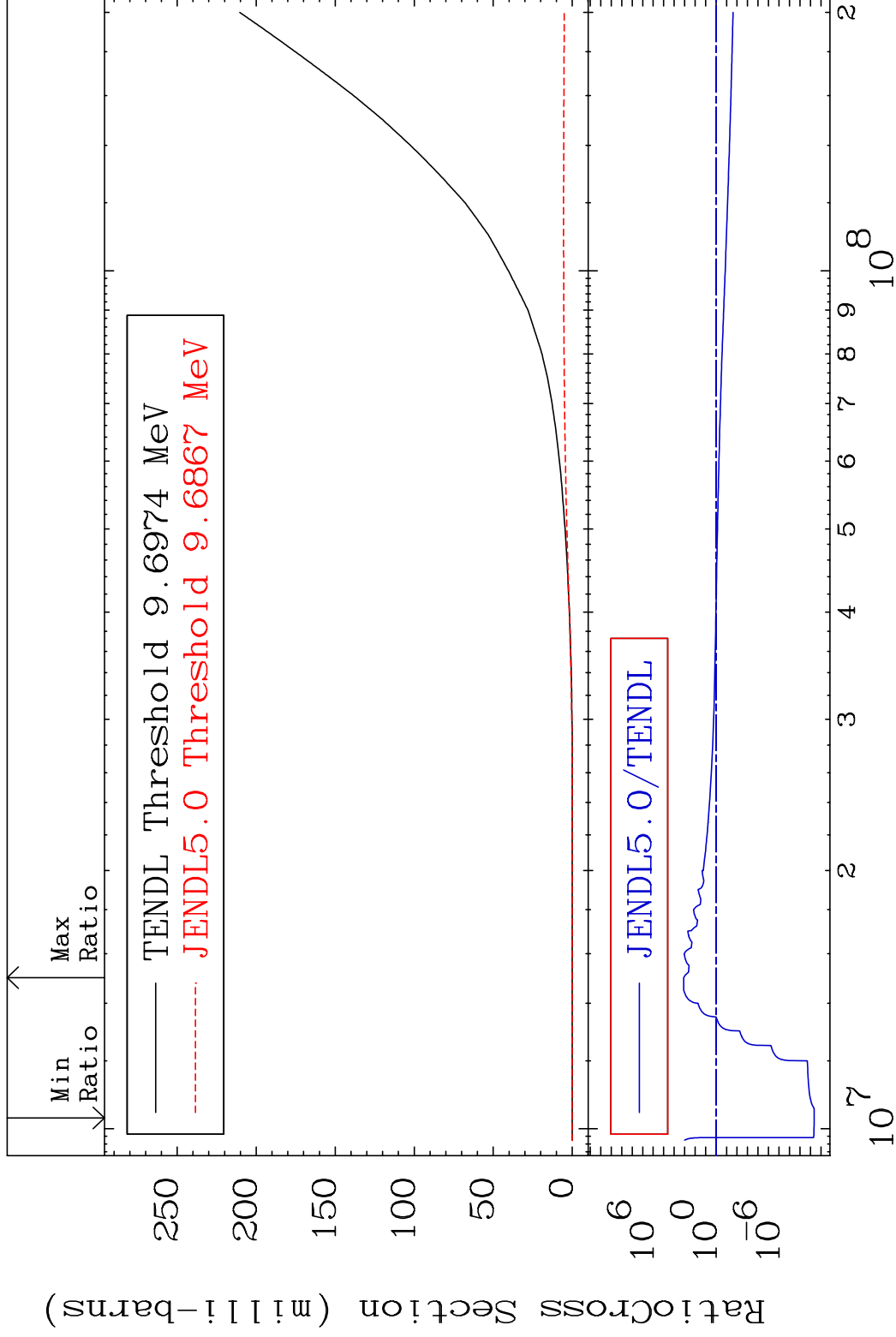
55-Cs-137

MAT 5537

He-3 Production

55-Cs-137

Cross Section -100.0 To 9999. %



46

Incident Energy (eV)

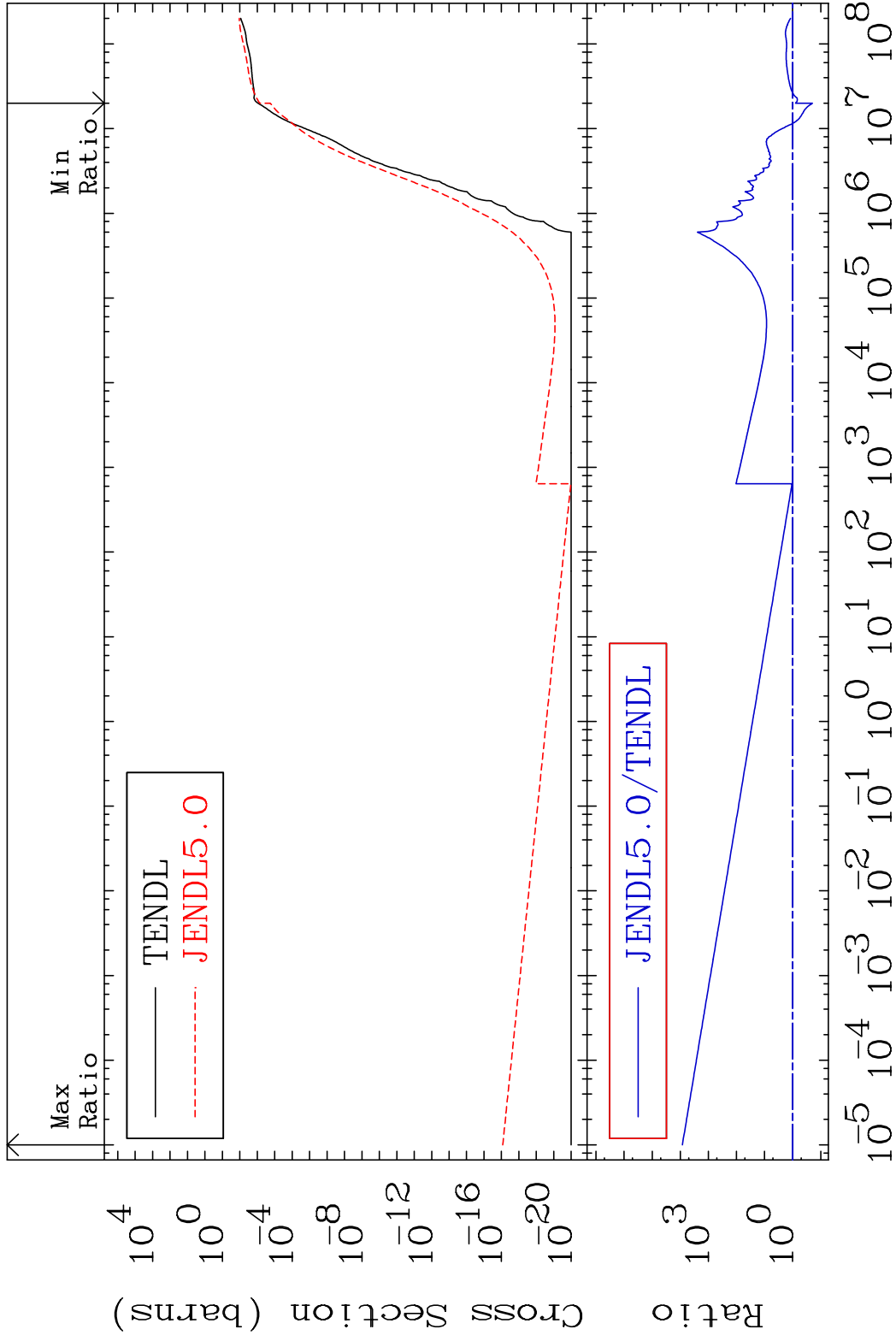
55-Cs-137

MAT 5537

He-4 Production

55-Cs-137

Cross Section -80.43 To 9999. %



47

Incident Energy (eV)

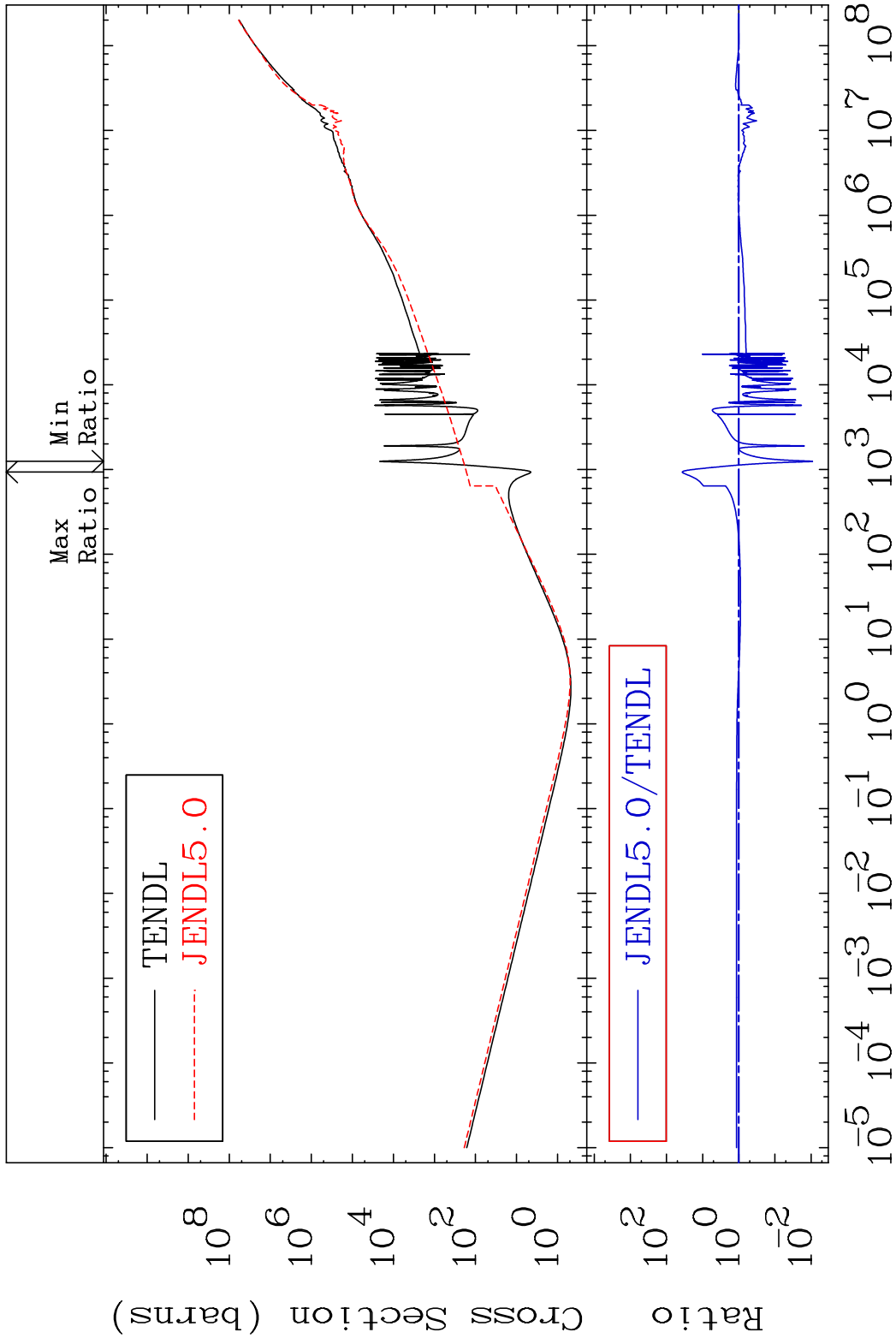
55-Cs-137

MAT 5537

Kerma total (eV-barns)

55-Cs-137

Cross Section -99.08 To 3599. %



48

Incident Energy (eV)

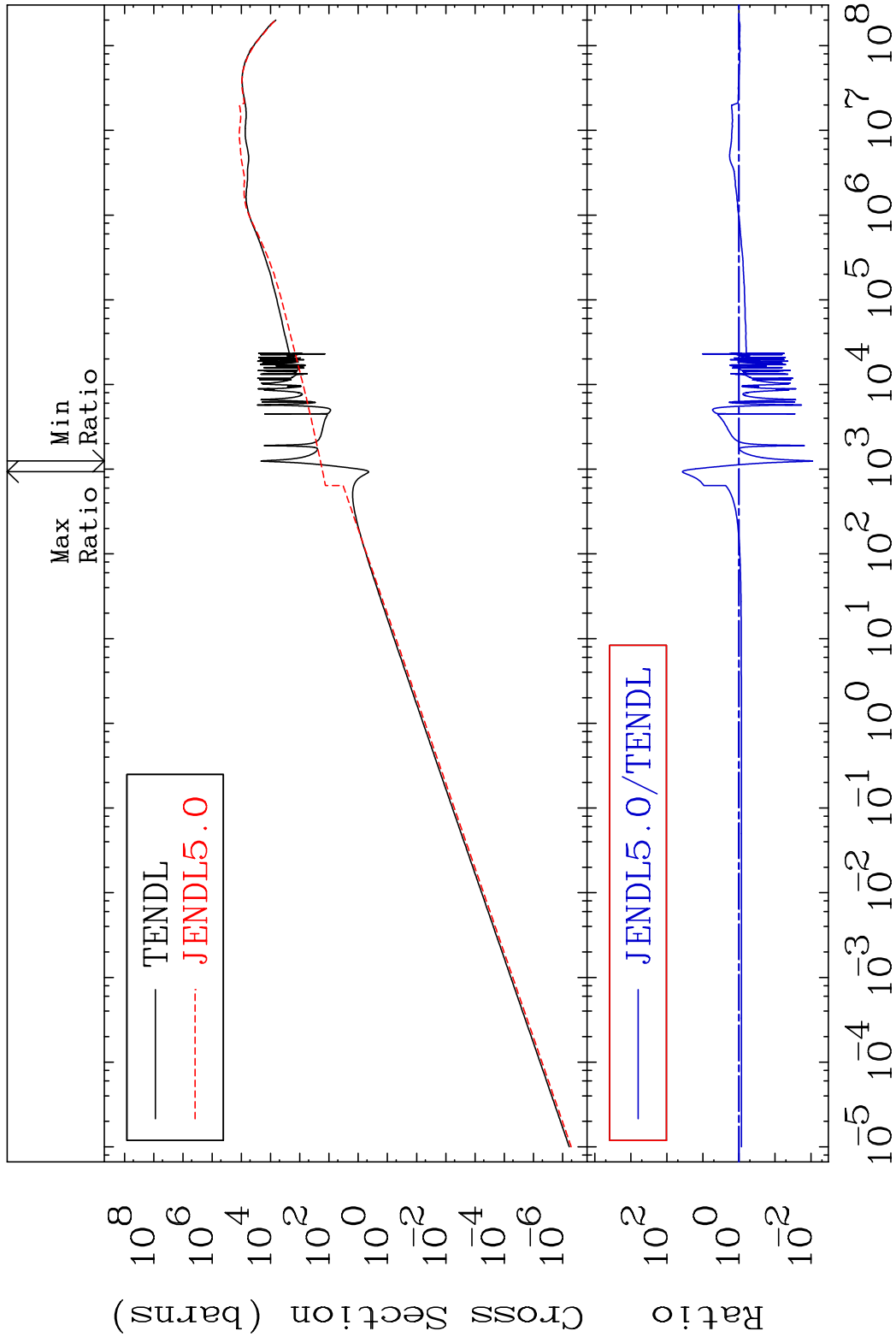
55-Cs-137

MAT 5537

Kerma elastic

55-Cs-137

Cross Section -99.09 To 3637. %

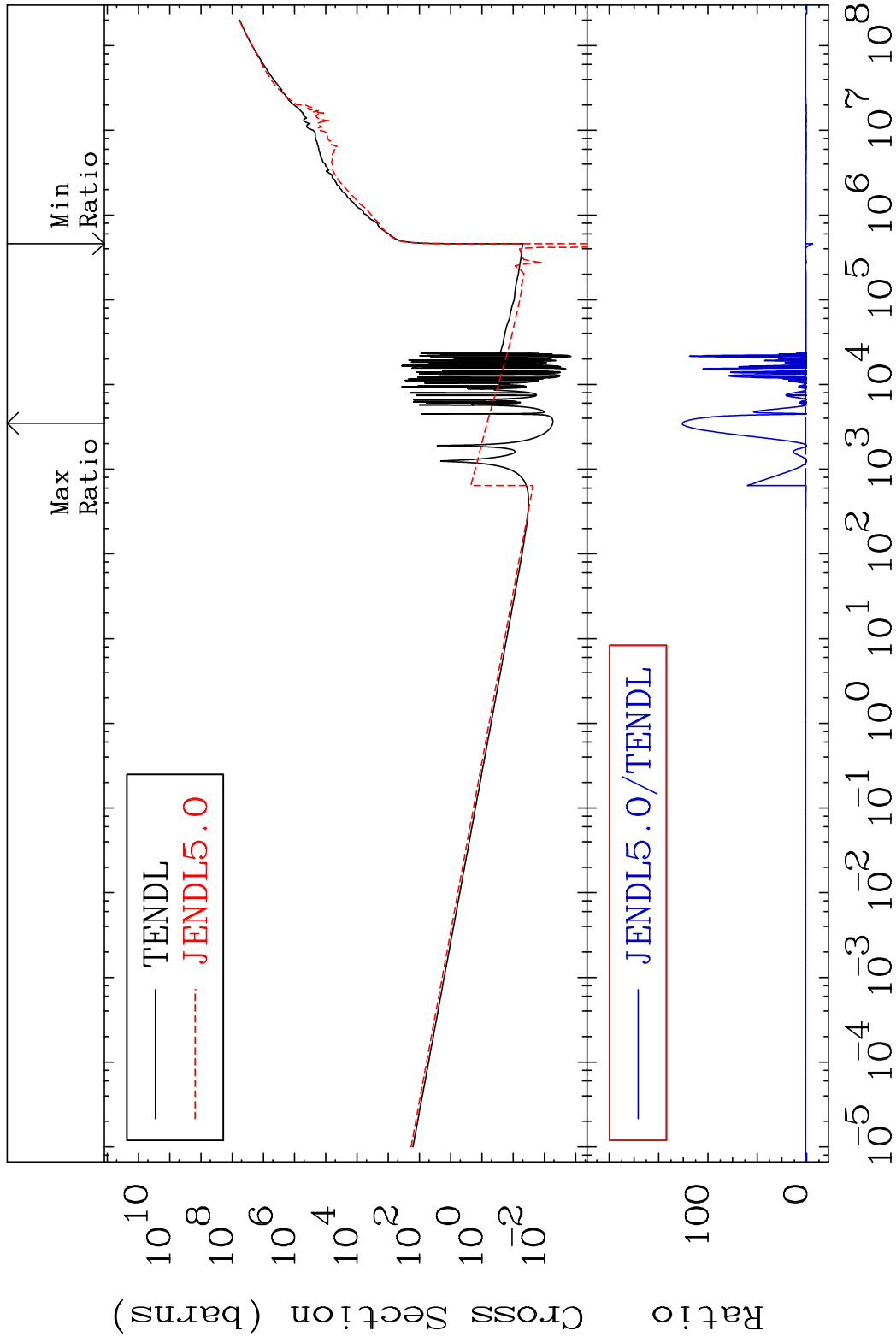


49

Incident Energy (eV)

55-Cs-137

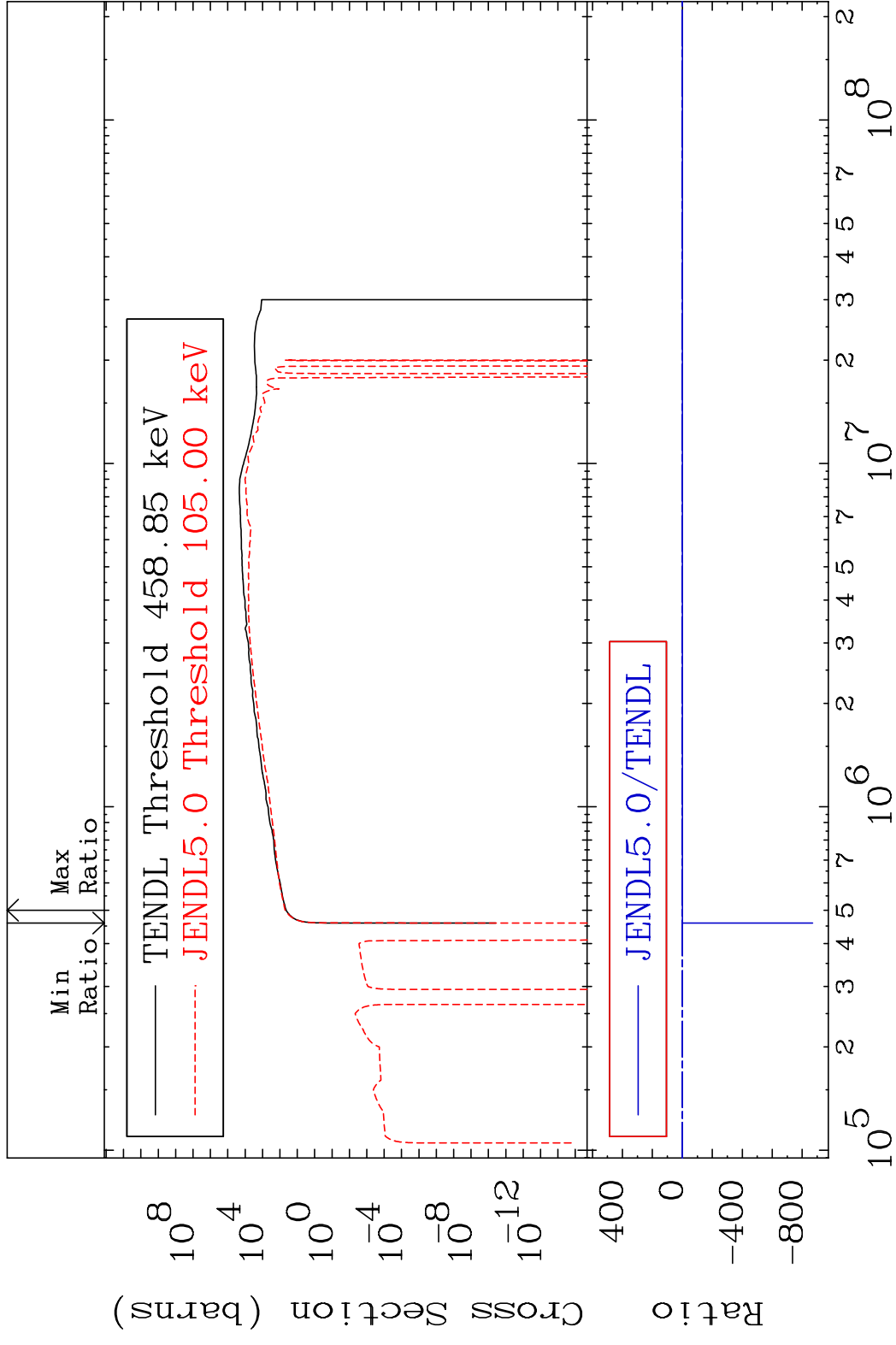
MAT 5537 Kerma non-elastic (all but mt2) 55-Cs-137
 Cross Section -704.1 To 9999. %



50 Incident Energy (eV) 55-Cs-137

MAT 5537

Kerma inelastic (mt51-91) 55-Cs-137
Cross Section -9999. To 12.08 %

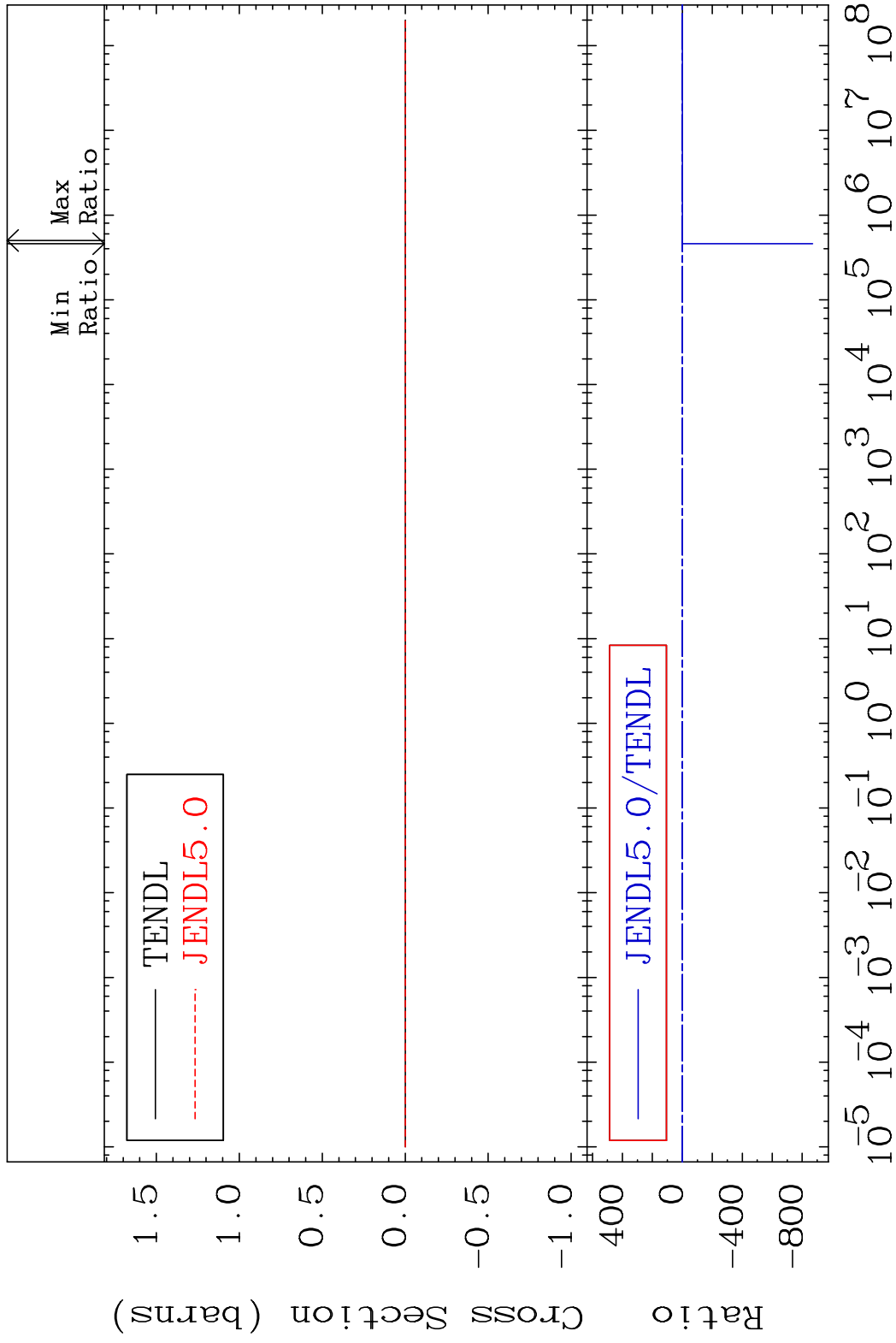


51

Incident Energy (eV)

55-Cs-137

MAT 5537 Kerma fission (mt18 or mt19-20-21-38) 55-Cs-137
 Cross Section -9999. To 12.08 %

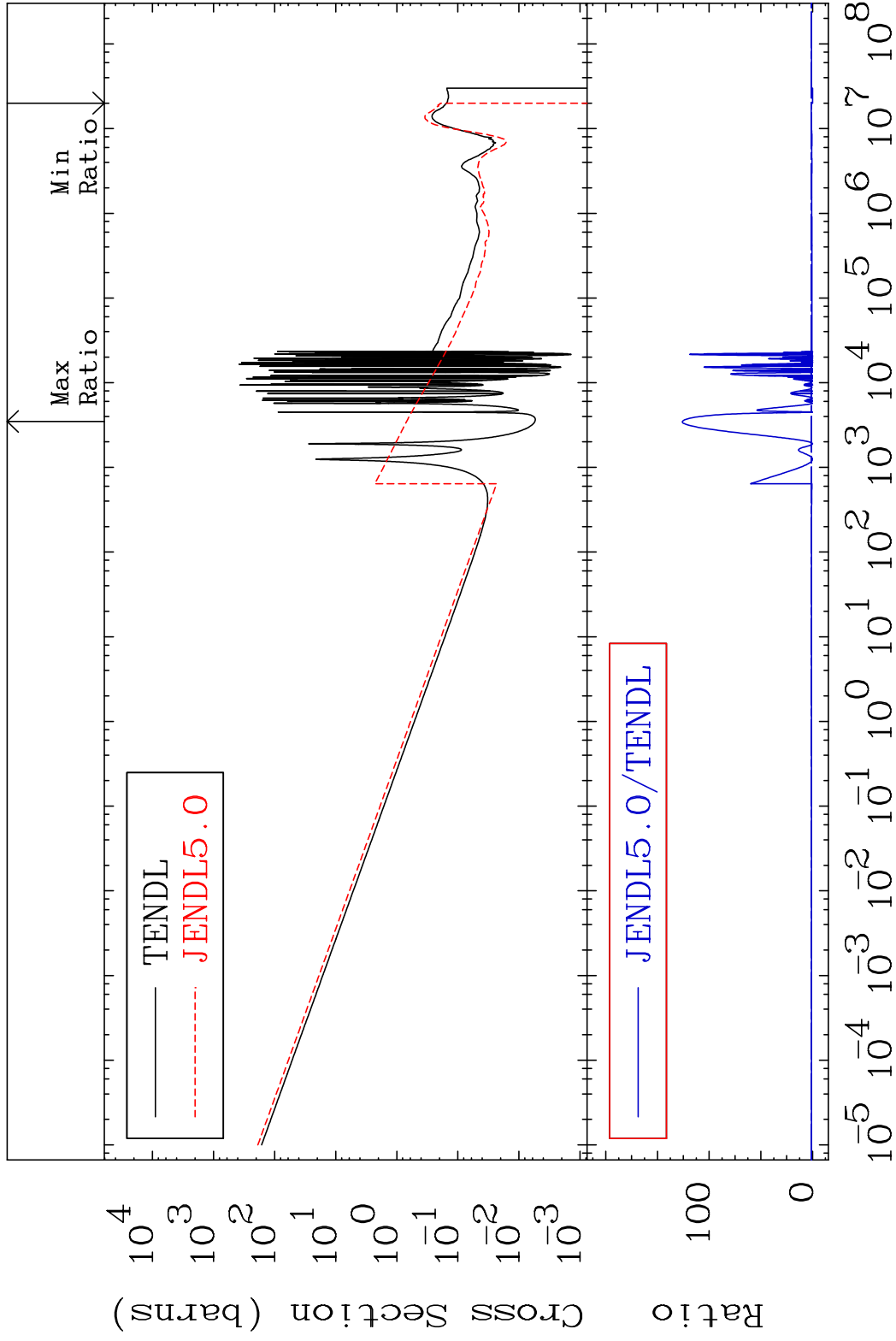


MAT 5537

Kerma capture (mt102)

55-Cs-137

Cross Section -100.0 To 9999. %

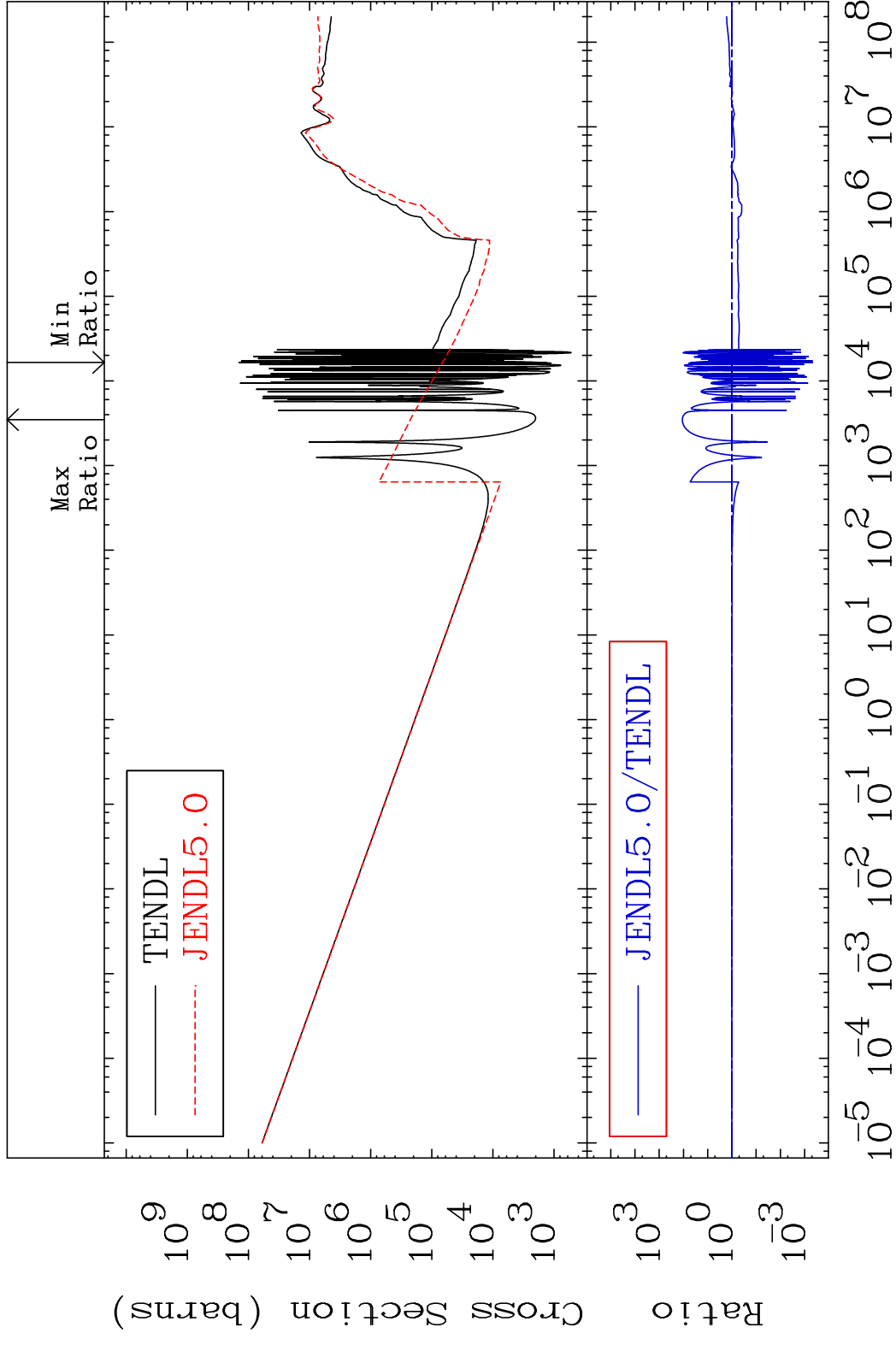


53

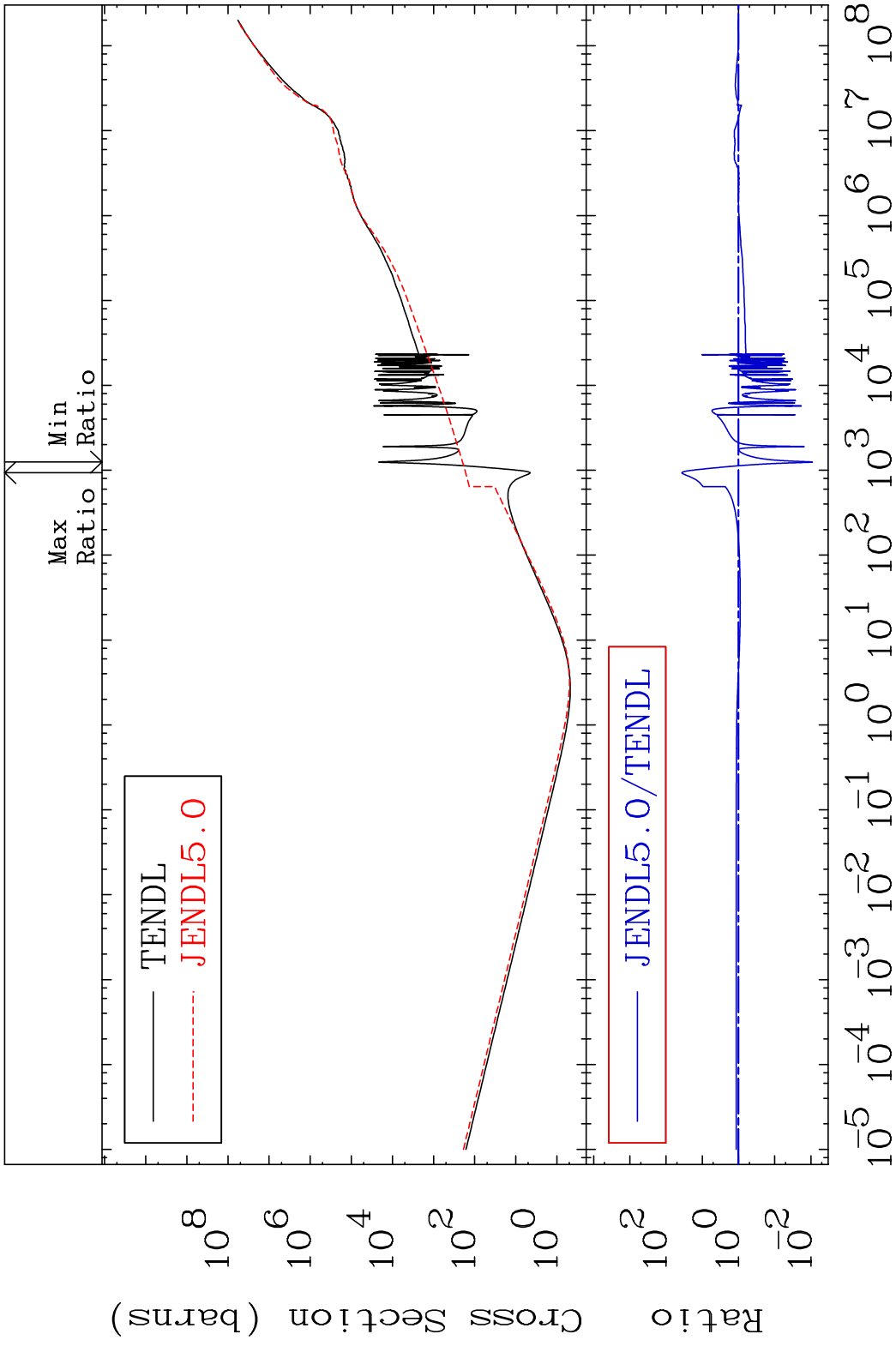
Incident Energy (eV)

55-Cs-137

MAT 5537 Total photon (eV-barns) 55-Cs-137
 Cross Section -99.95 To 9999. %



MAT 5537 Total kinematic kerma (high limit) 55-Cs-137
 Cross Section -99.08 To 3599. %

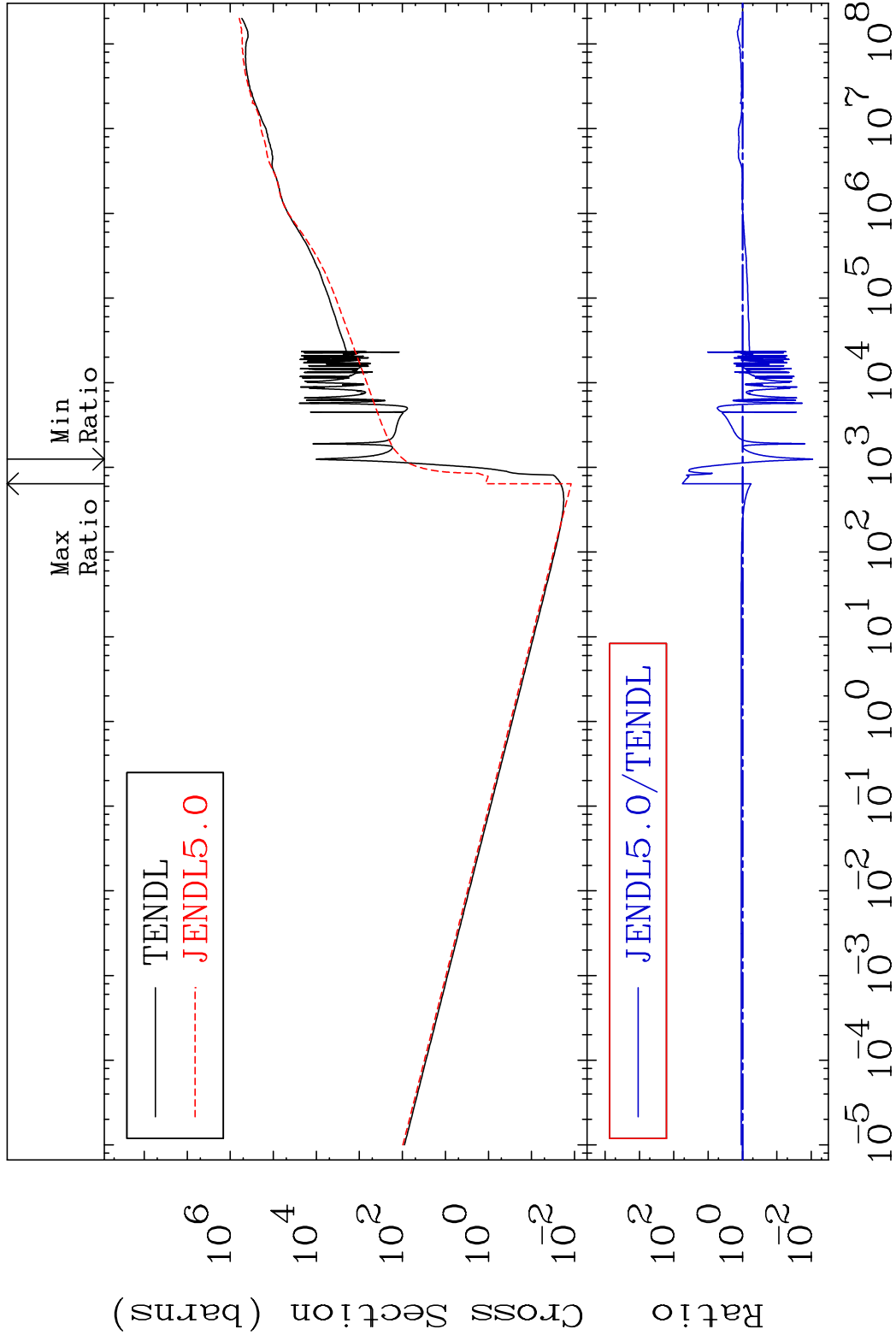


MAT 5537

Dpa total (eV-barns)

55-Cs-137

Cross Section -99.08 To 5527. %



56

Incident Energy (eV)

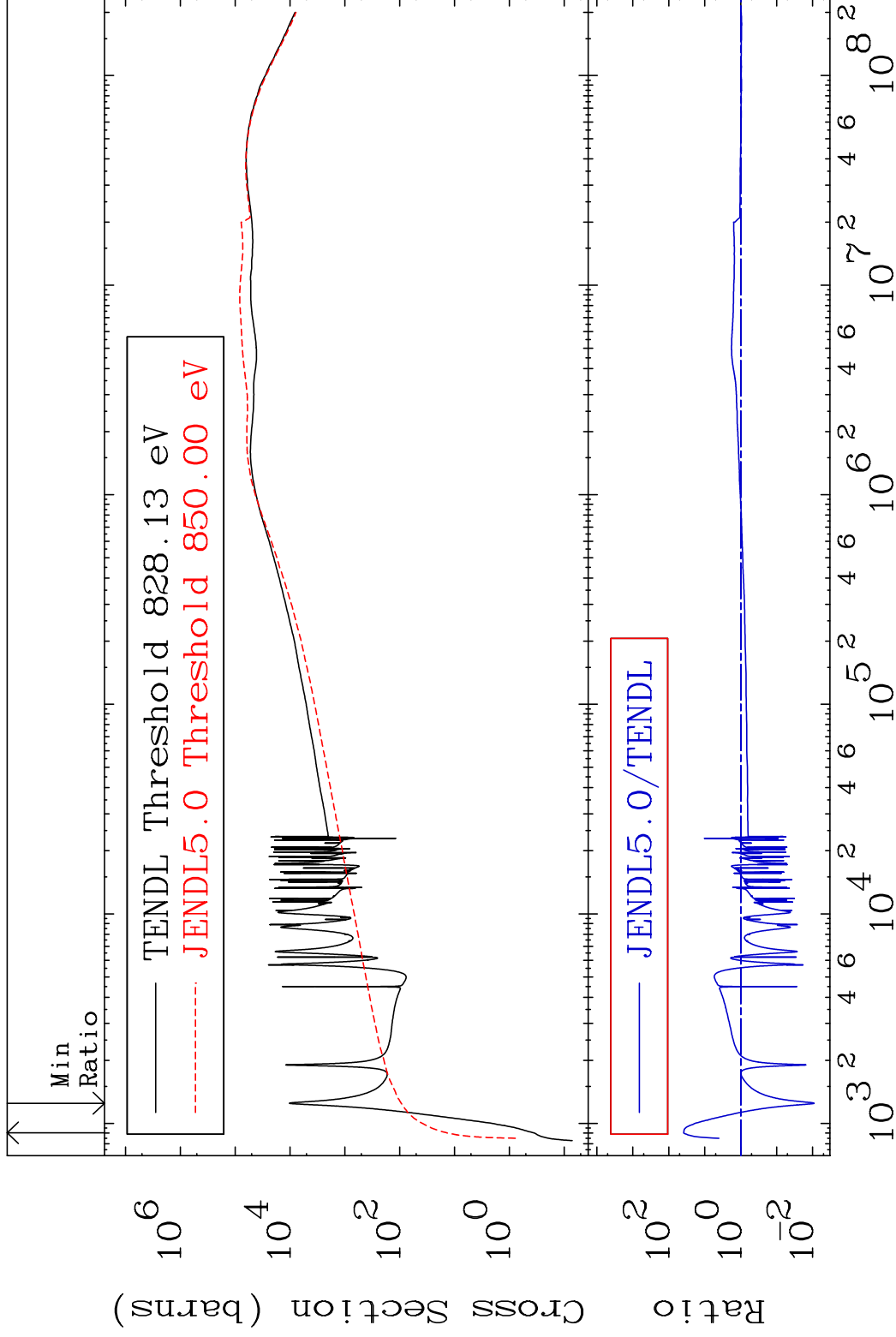
55-Cs-137

MAT 5537

Dpa elastic (mt2)

55-Cs-137

Cross Section -99.09 To 3758. %



57

Incident Energy (eV)

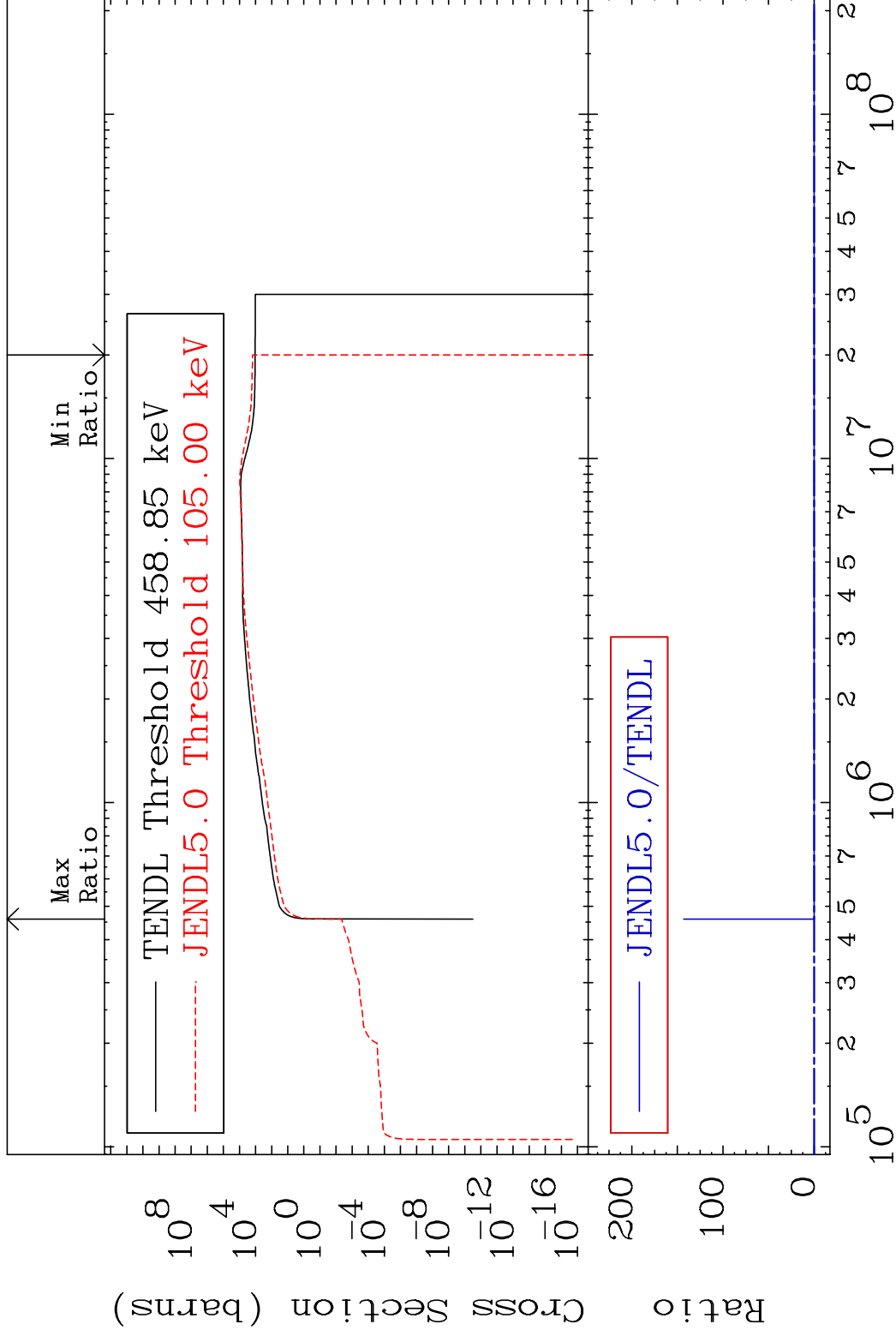
55-Cs-137

MAT 5537

Dpa inelastic (mt51-91)

55-Cs-137

Cross Section -100.0 To 9999. %

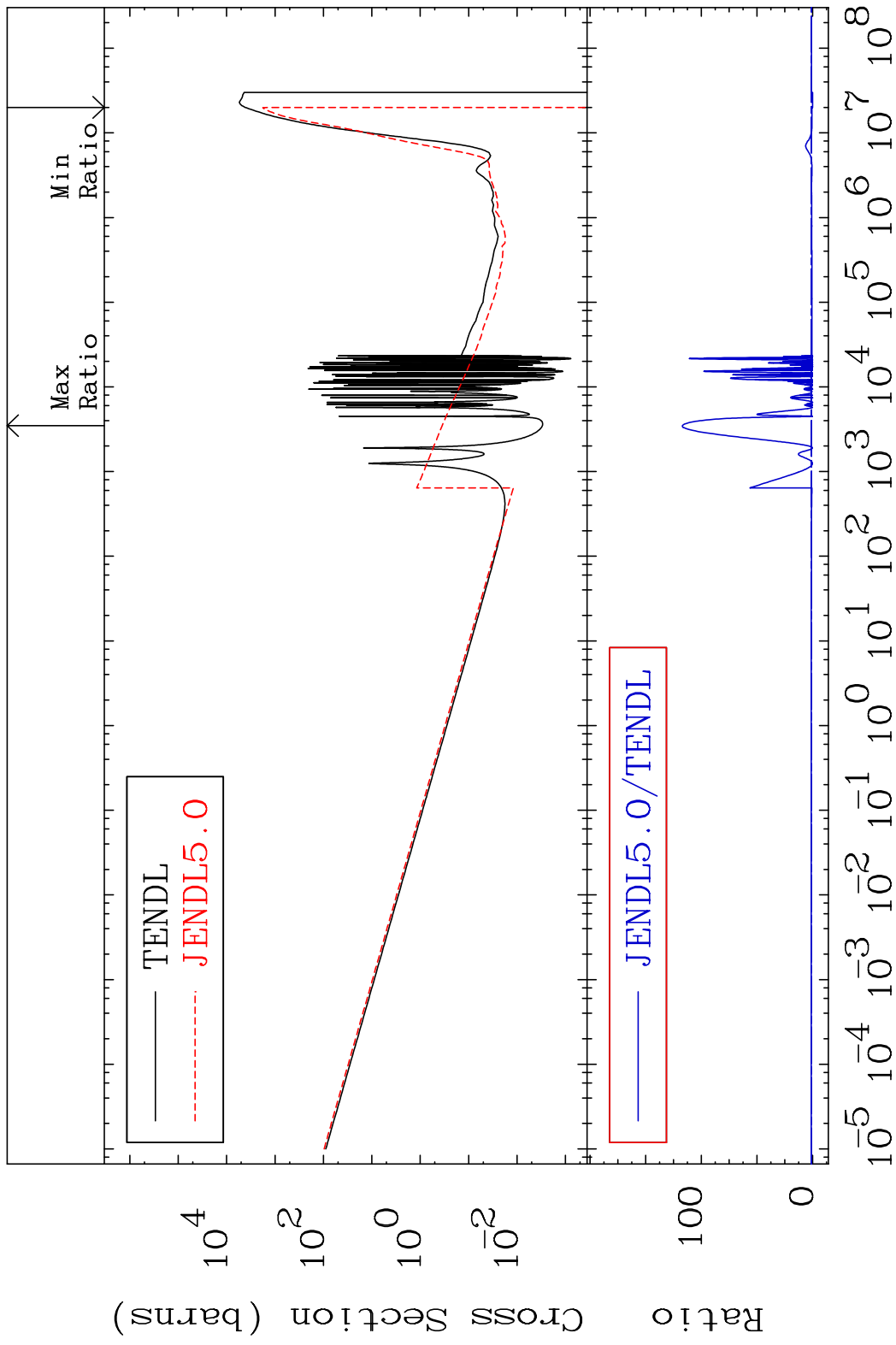


58

Incident Energy (eV)

55-Cs-137

MAT 5537 Dpa disappearance (mt102 -120) 55-Cs-137
 Cross Section -100.0 To 9999. %



59 Incident Energy (eV) 55-Cs-137

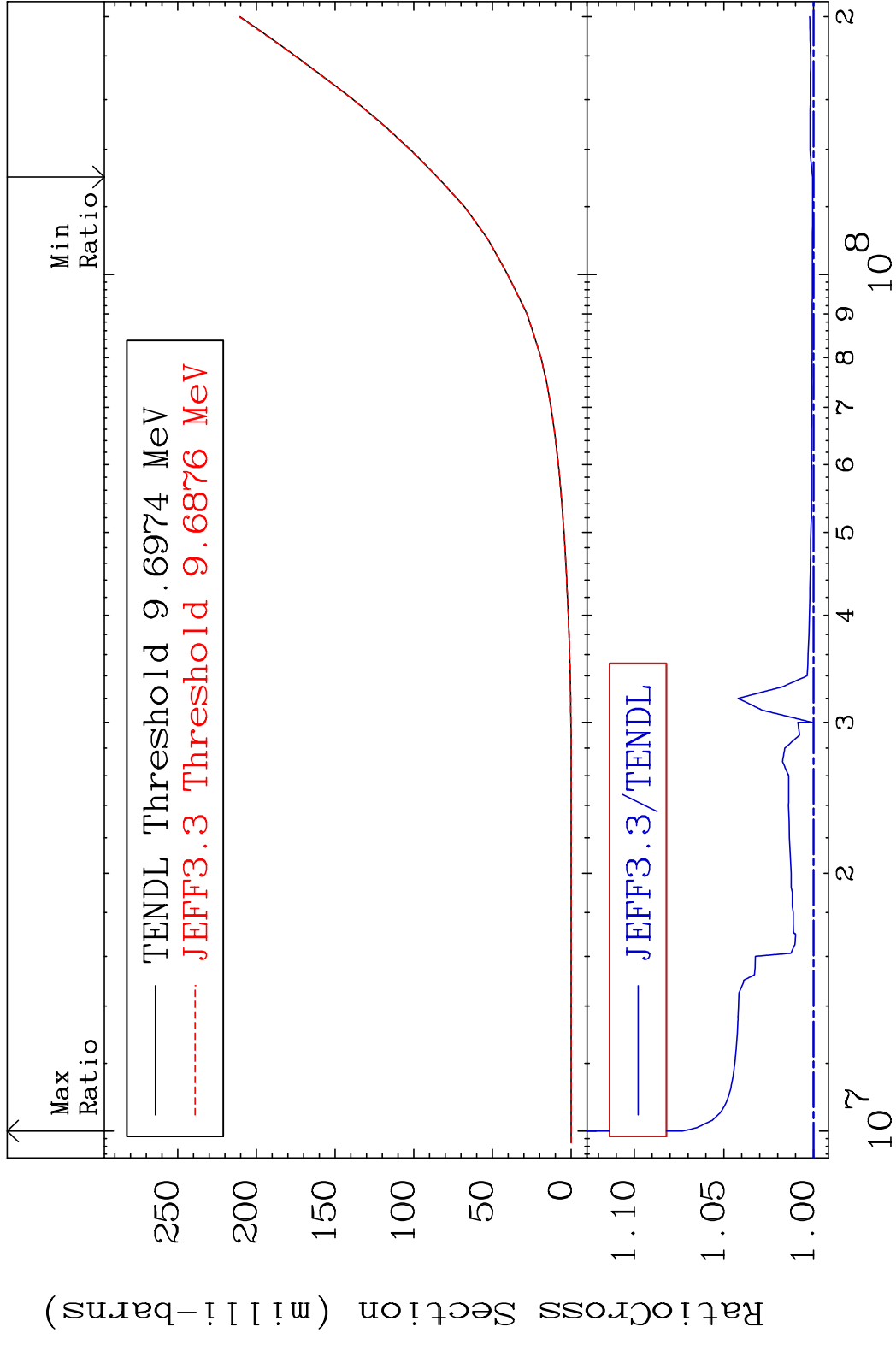
MAT 5537

He-3 Production

55-Cs-137

Cross Section 0.050

To 7.315 %



60

Incident Energy (eV)

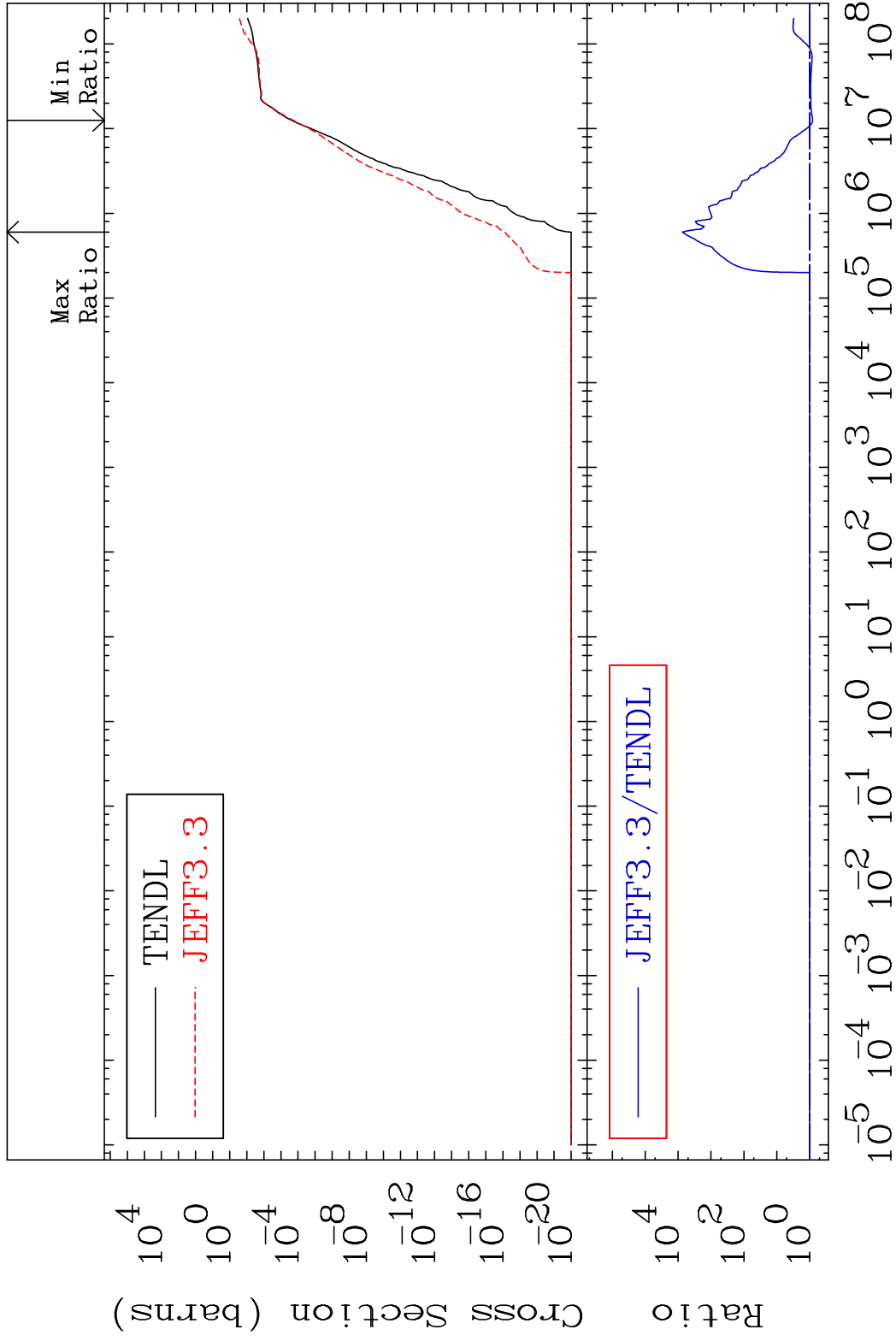
55-Cs-137

MAT 5537

He-4 Production

55-Cs-137

Cross Section -18.45 To 9999. %



61

Incident Energy (eV)

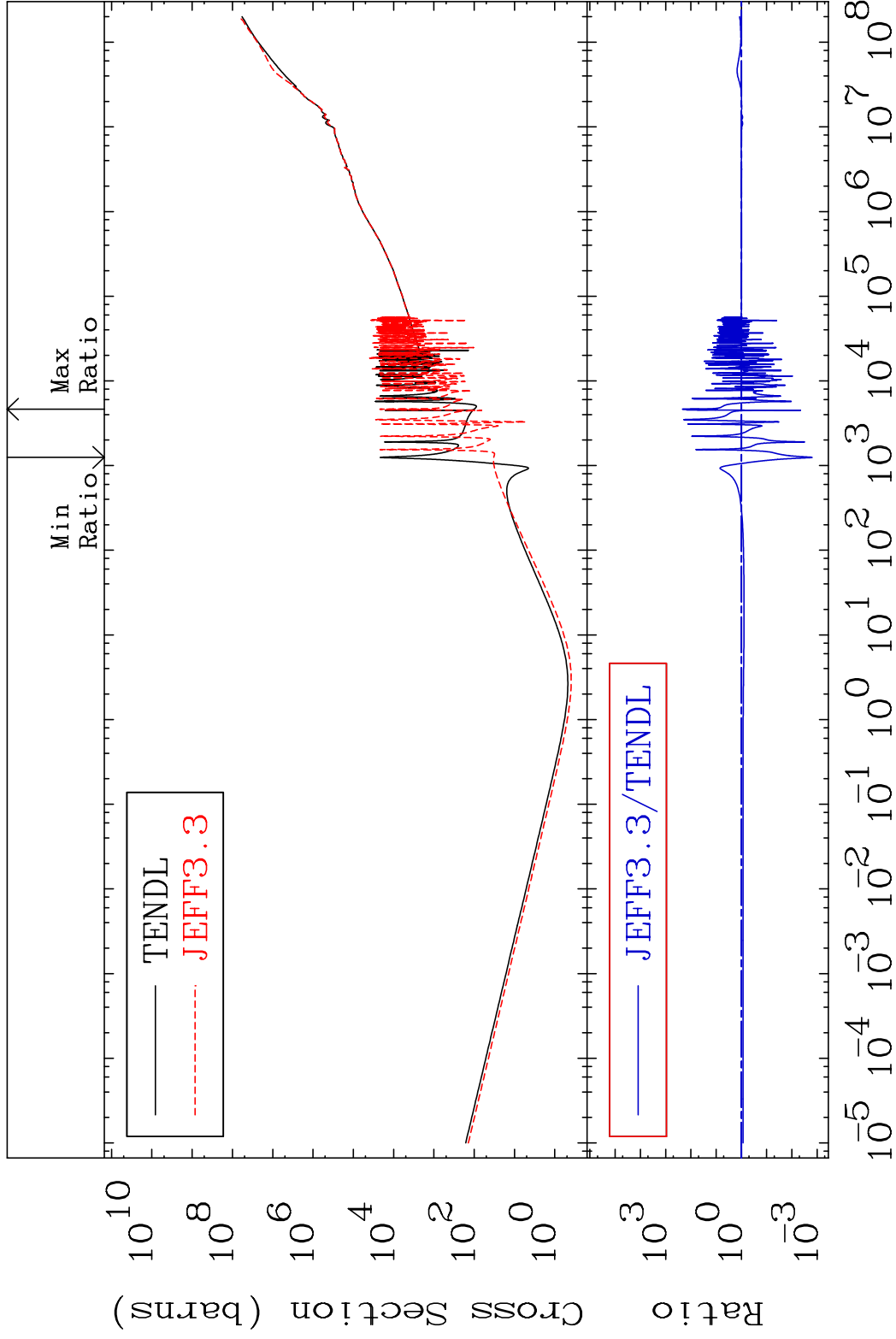
55-Cs-137

MAT 5537

Kerma total (eV-barns)

55-Cs-137

Cross Section -99.85 To 9999. %



62

Incident Energy (eV)

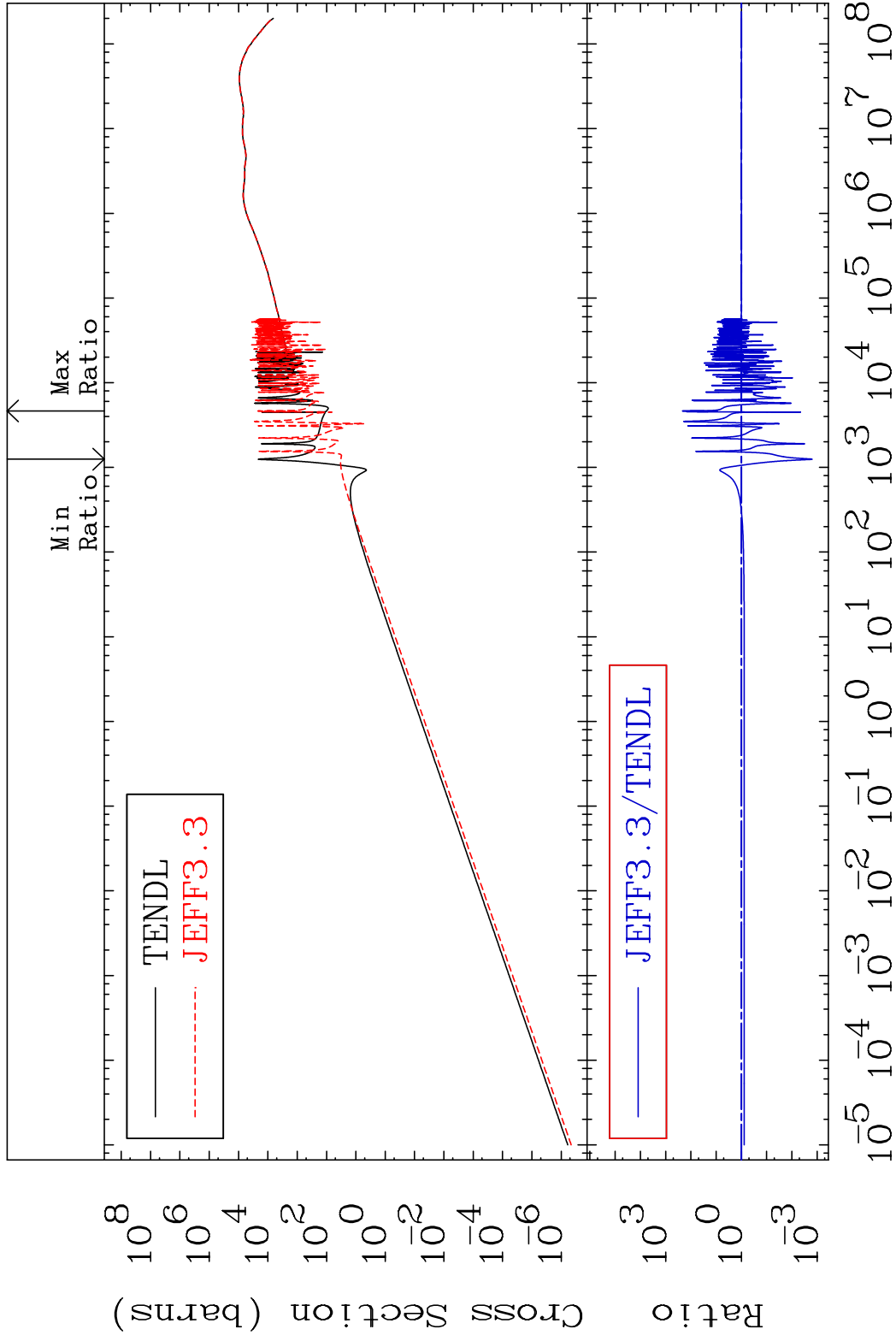
55-Cs-137

MAT 5537

Kerma elastic

55-Cs-137

Cross Section -99.85 To 9999. %

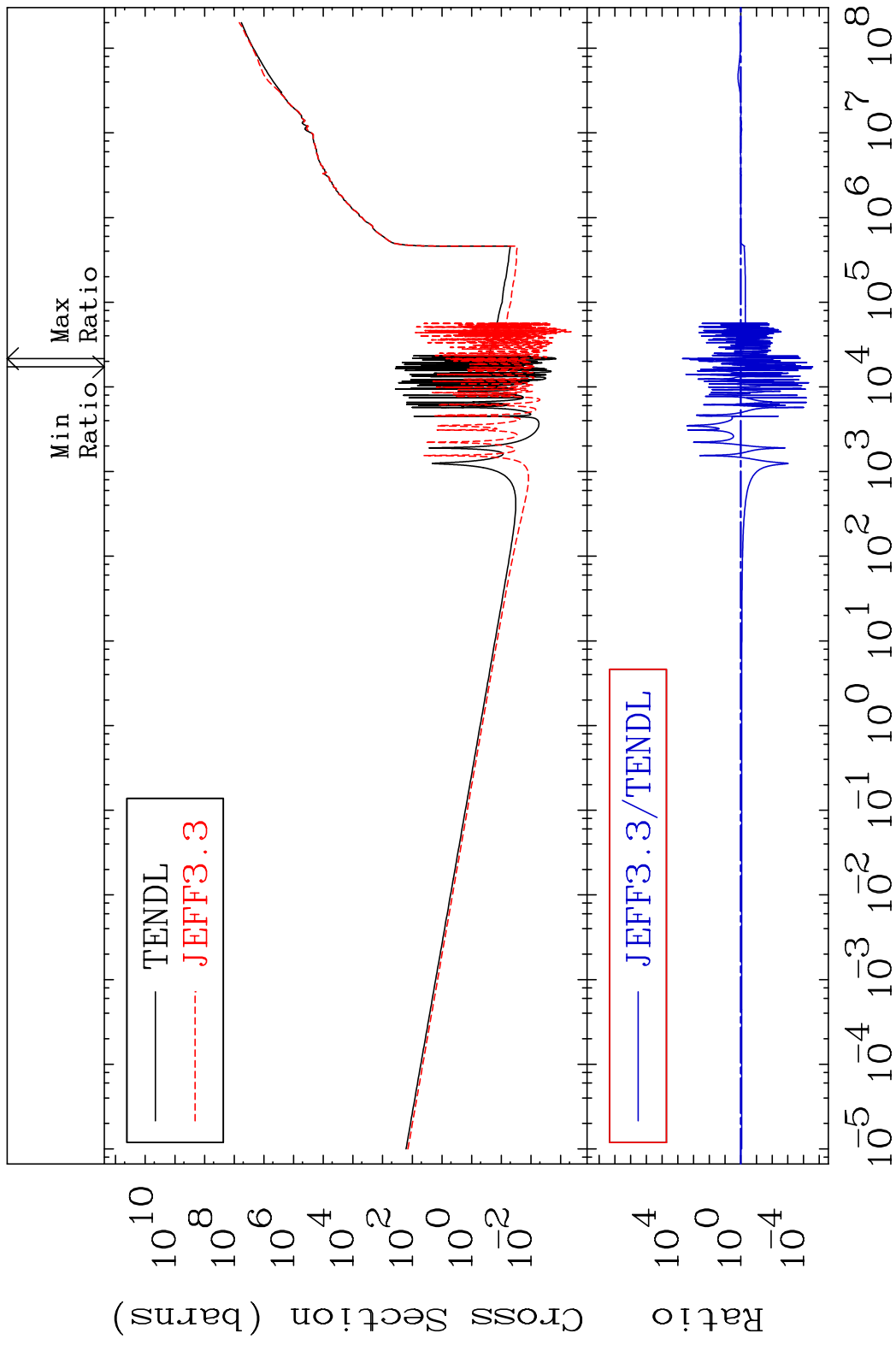


63

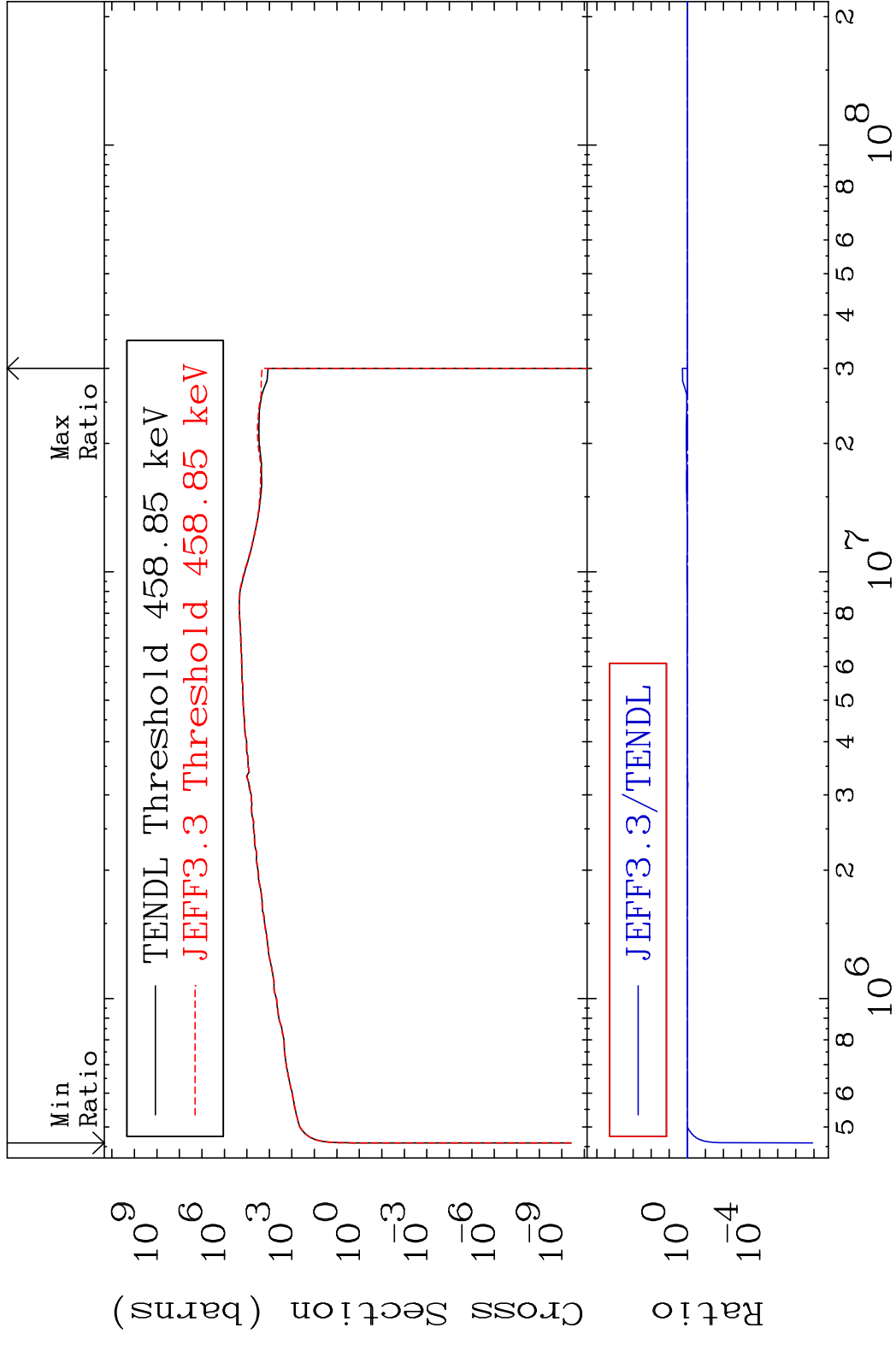
Incident Energy (eV)

55-Cs-137

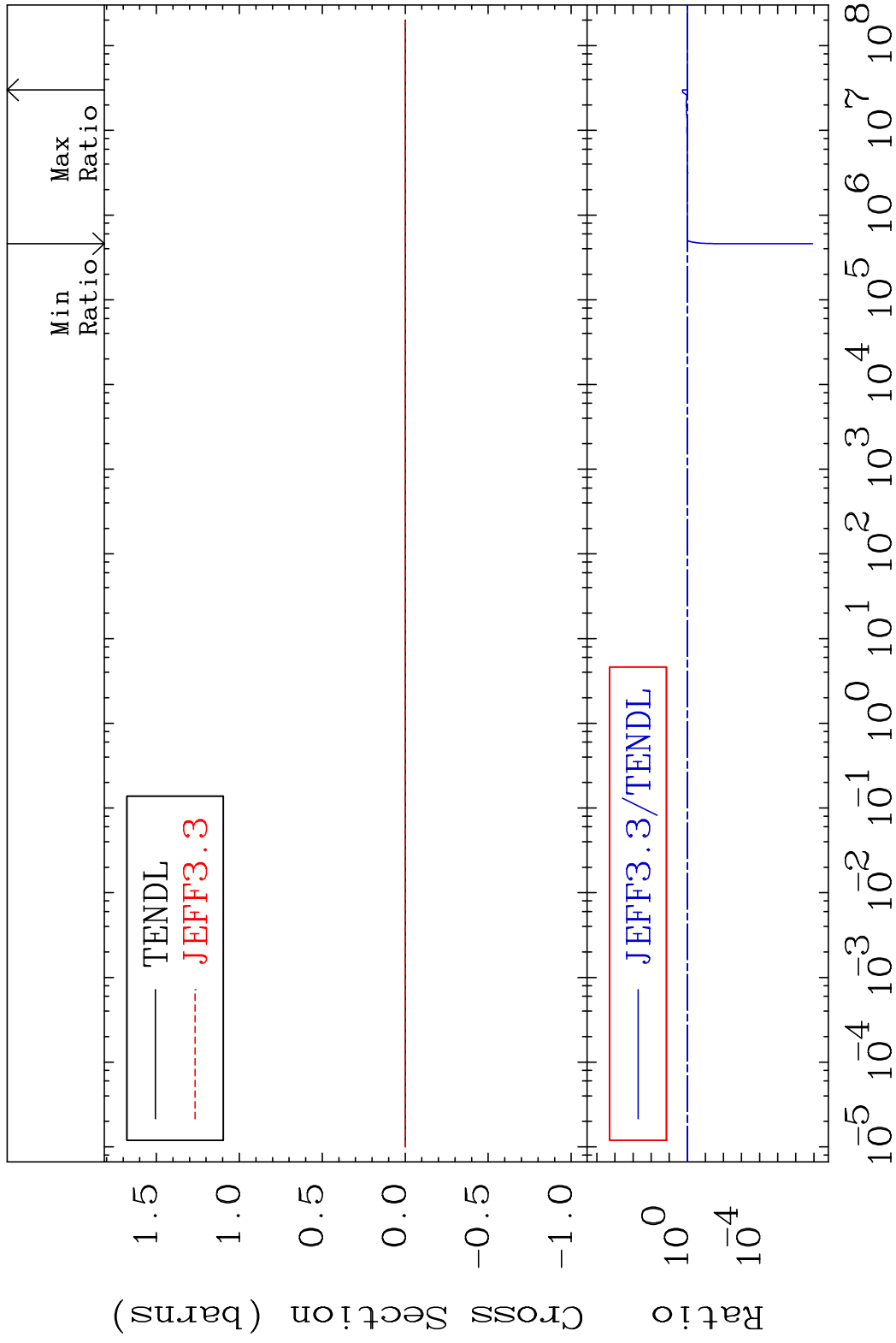
MAT 5537 Kerma non-elastic (all but mt2) 55-Cs-137
 Cross Section -100.0 To 9999. %



MAT 5537 Kerma inelastic (mt51-91) 55-Cs-137
 Cross Section -100.0 To 88.12 %



MAT 5537 Kerma fission (mt18 or mt19-20-21-38)55-Cs-137
 Cross Section -100.0 To 88.12 %

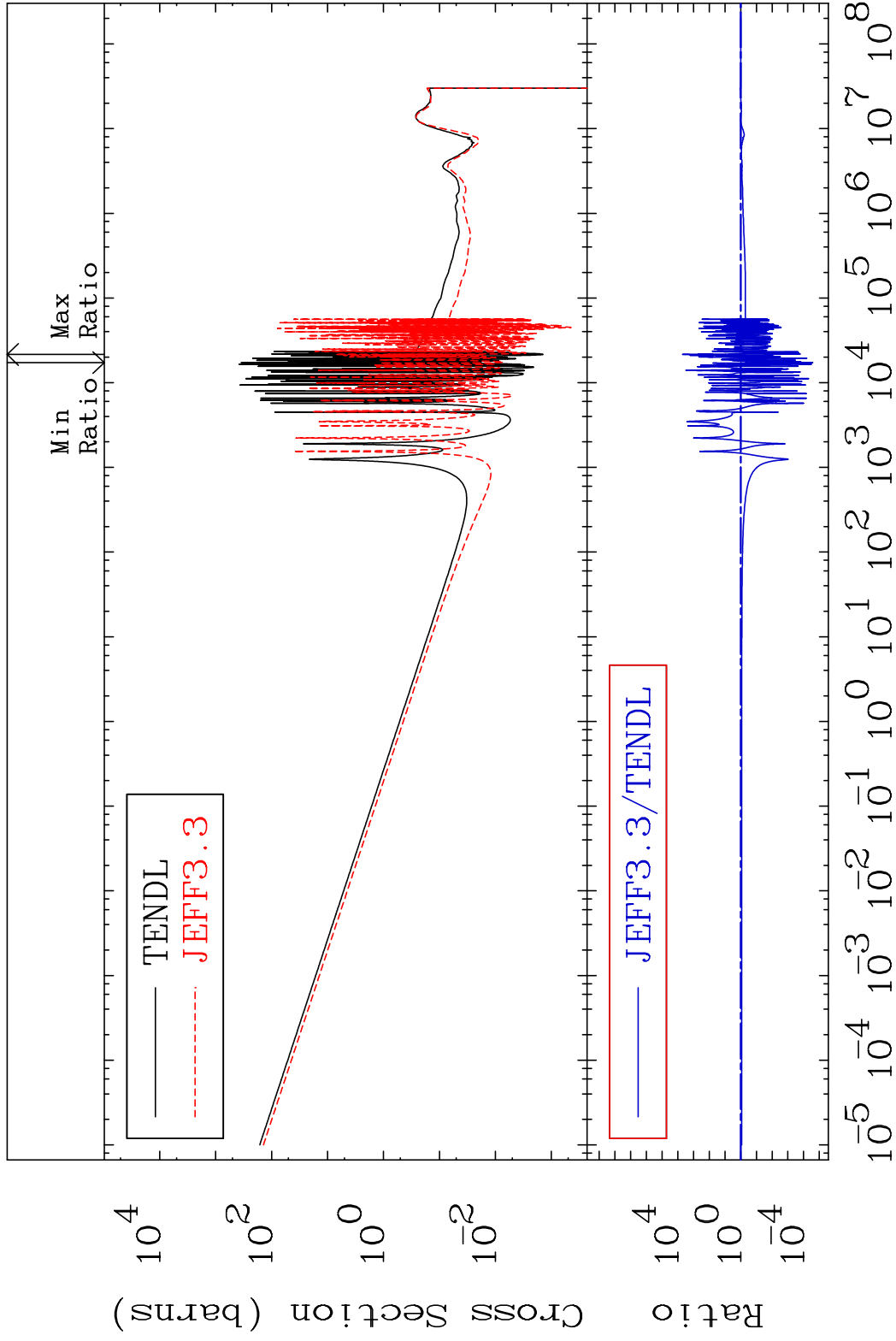


MAT 5537

Kerma capture (mt102)

55-Cs-137

Cross Section -100.0 To 9999. %



67

Incident Energy (eV)

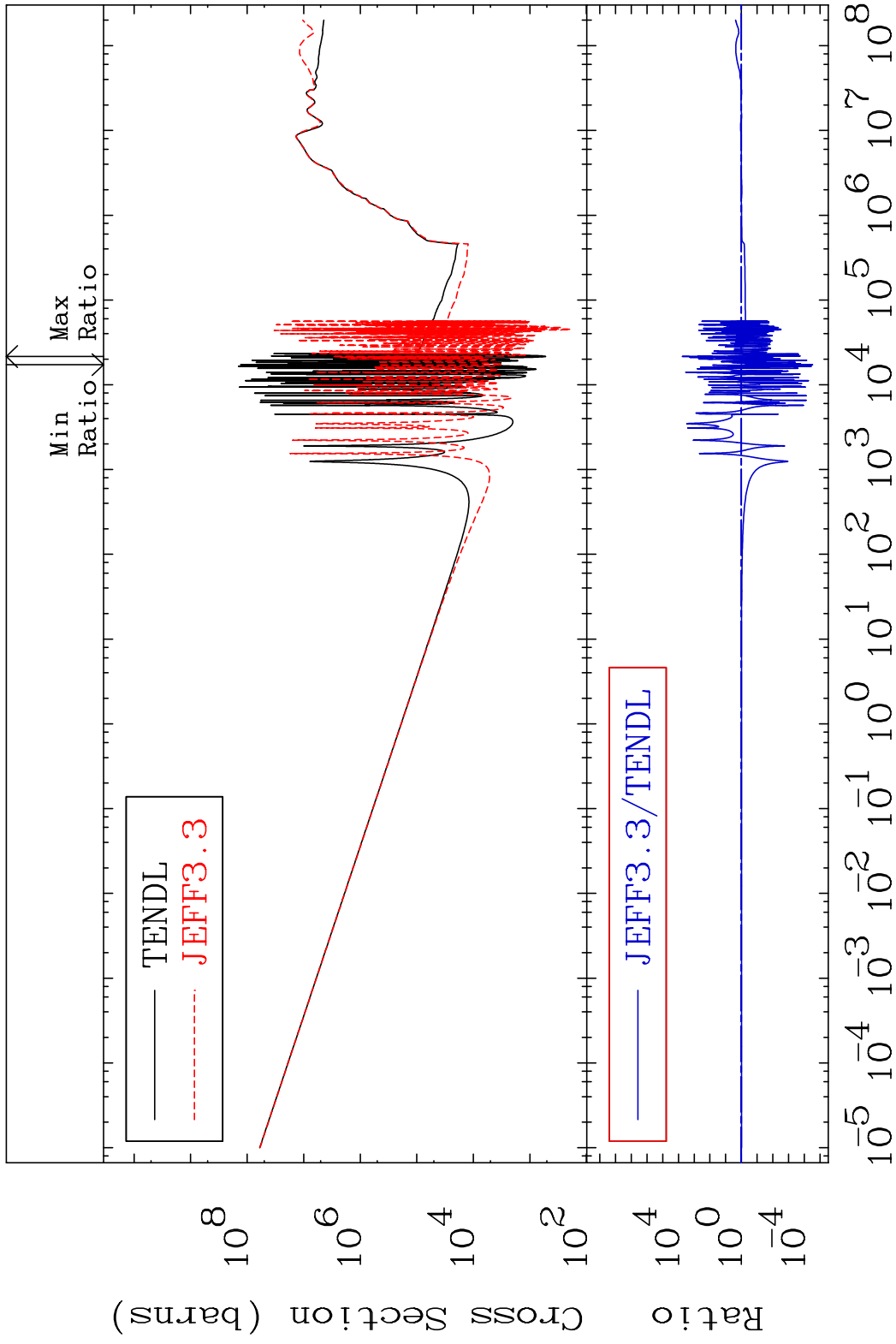
55-Cs-137

MAT 5537

Total photon (eV-barns)

55-Cs-137

Cross Section -100.0 To 9999. %

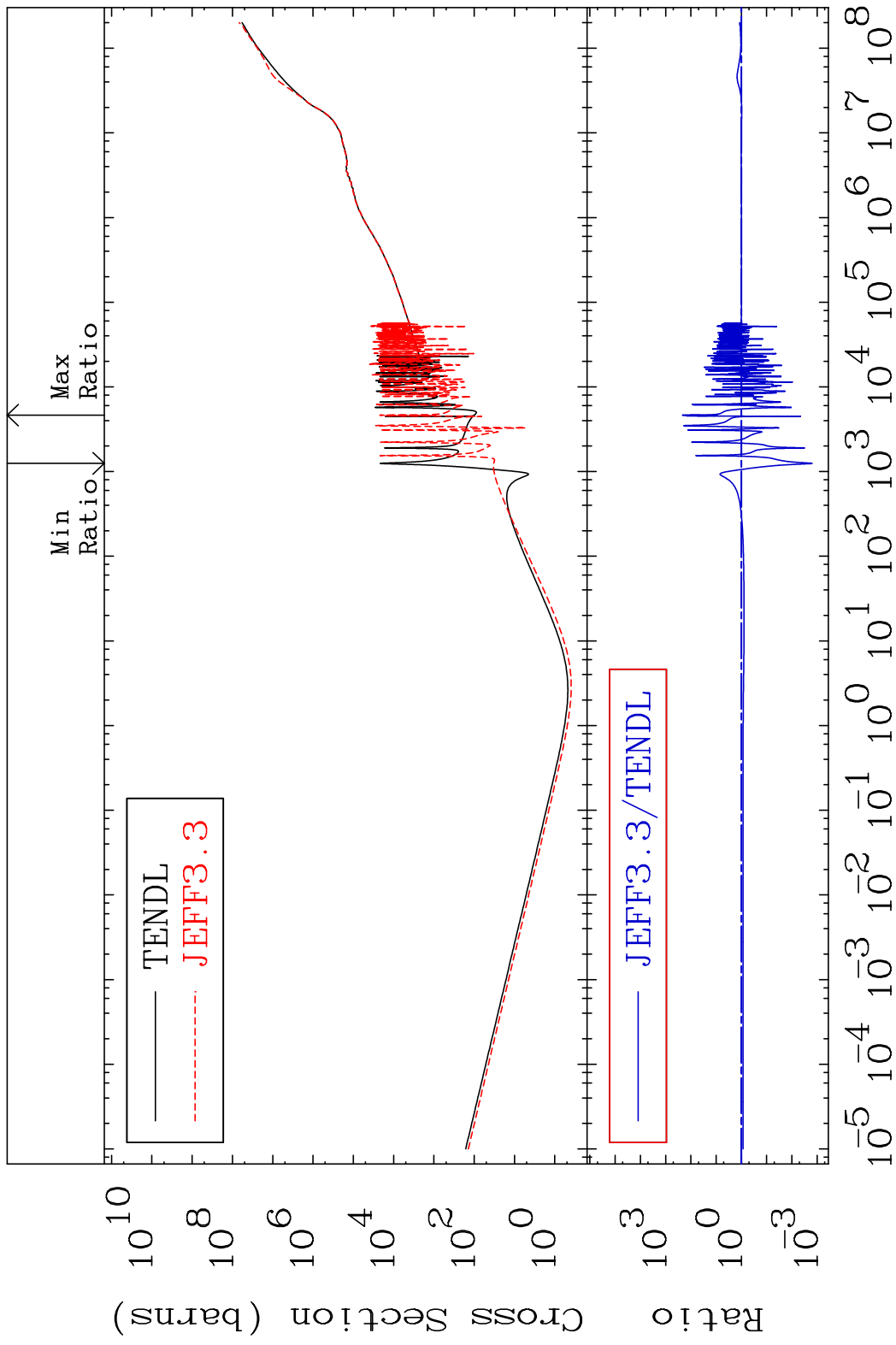


68

Incident Energy (eV)

55-Cs-137

MAT 5537 Total kinematic kerma (high limit) 55-Cs-137
 Cross Section -99.85 To 9999. %

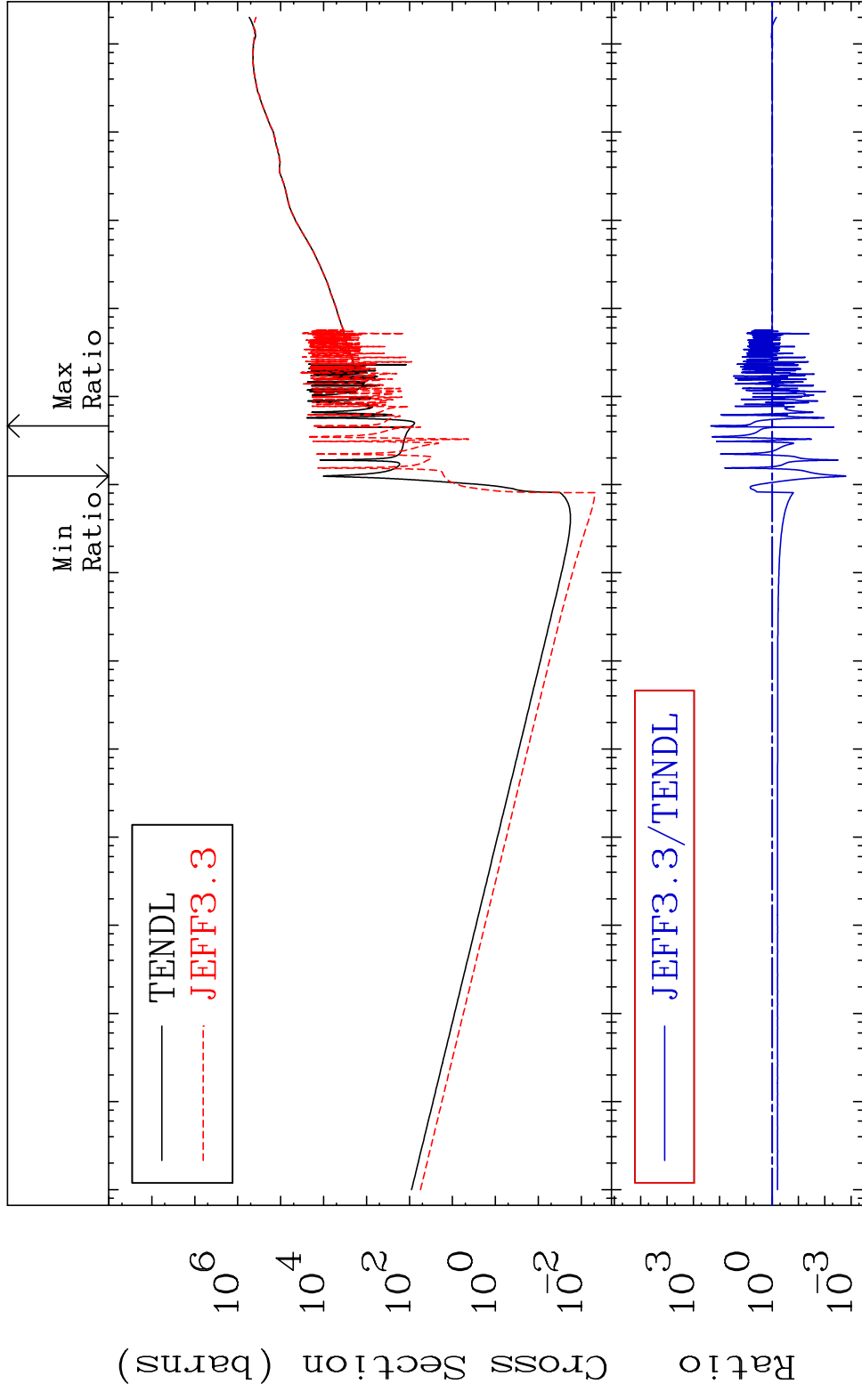


MAT 5537

Dpa total (eV-barns)

55-Cs-137

Cross Section -99.85 To 9999. %



70

Incident Energy (eV)

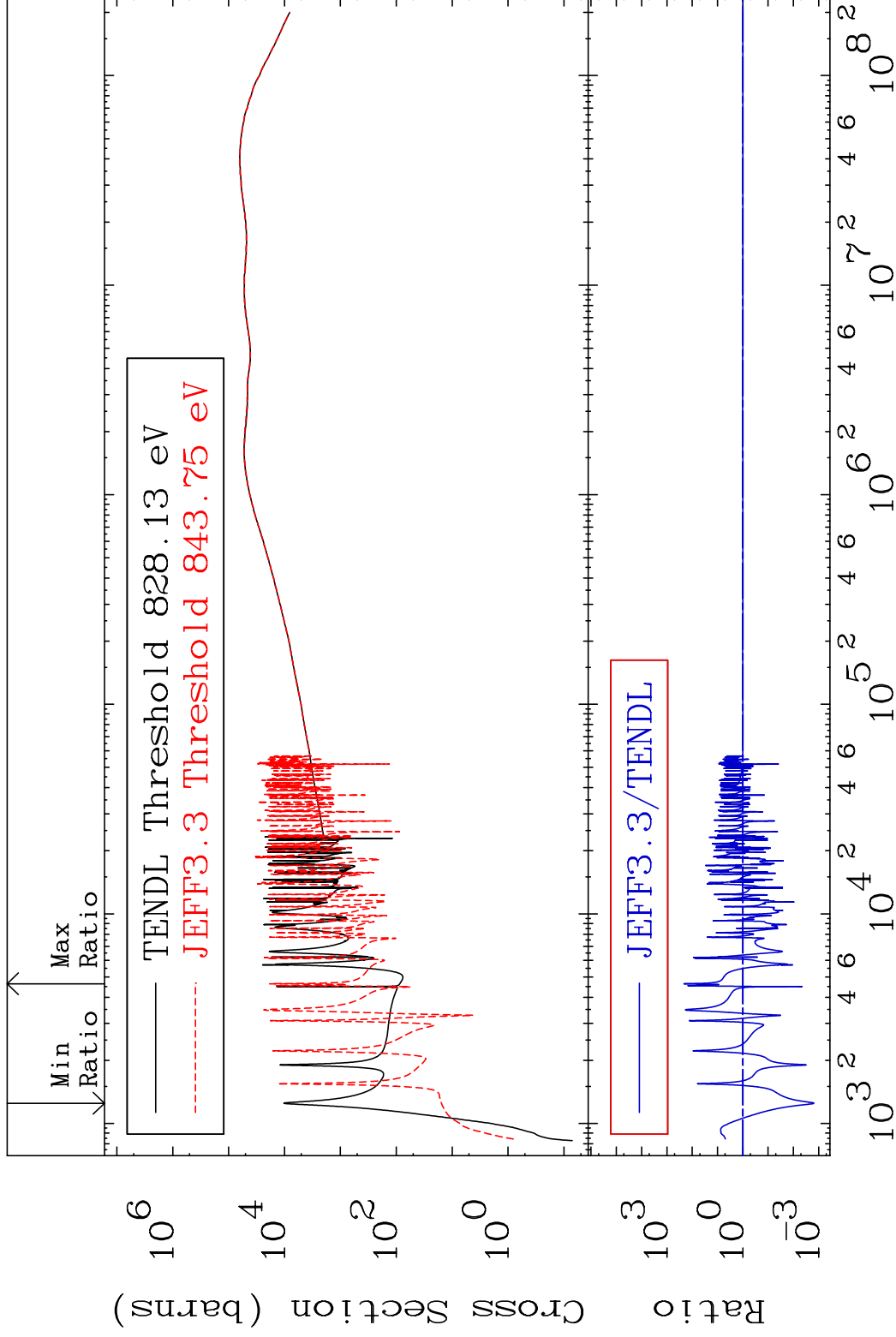
55-Cs-137

MAT 5537

Dpa elastic (mt2)

55-Cs-137

Cross Section -99.85 To 9999. %

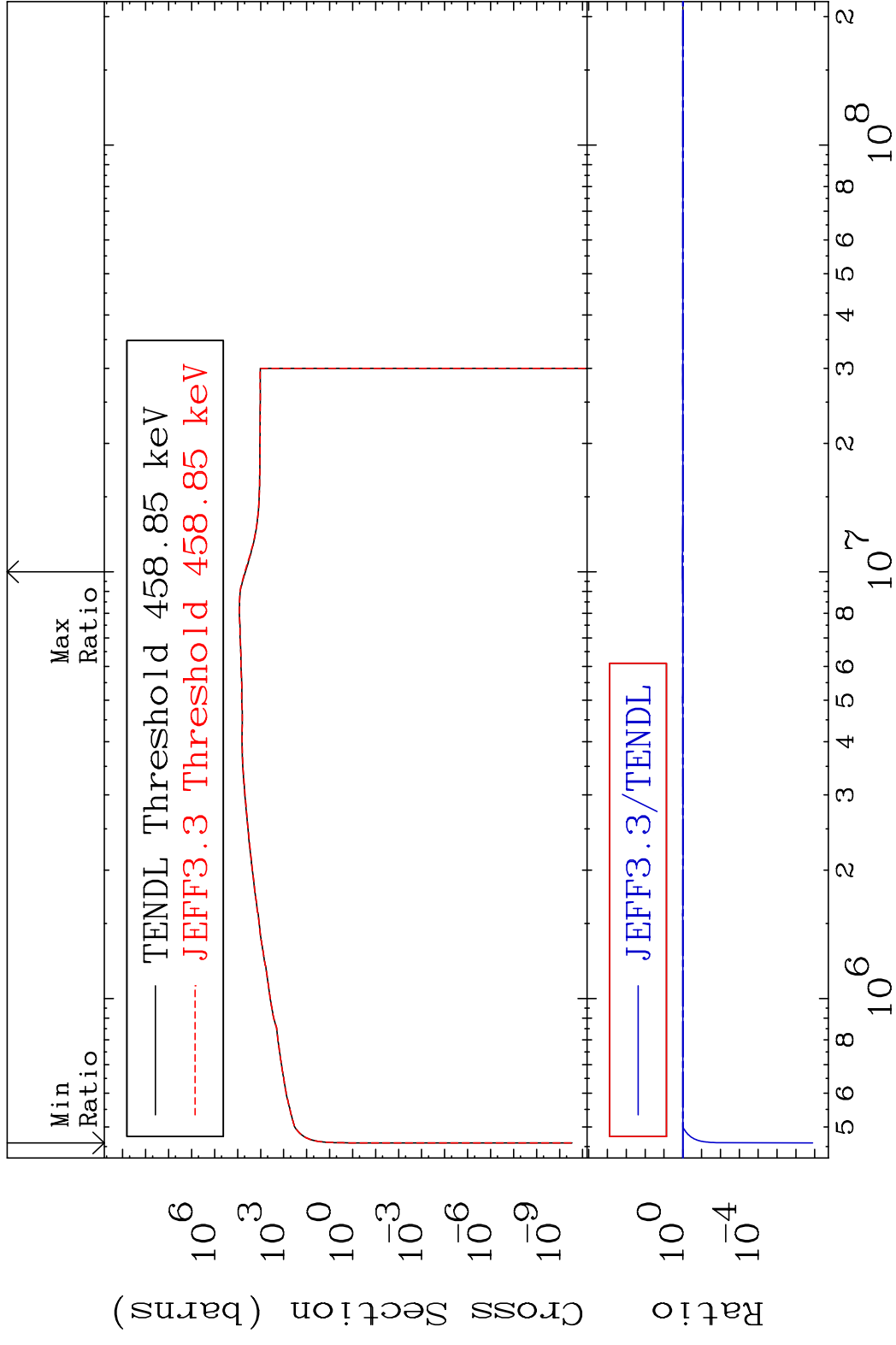


71

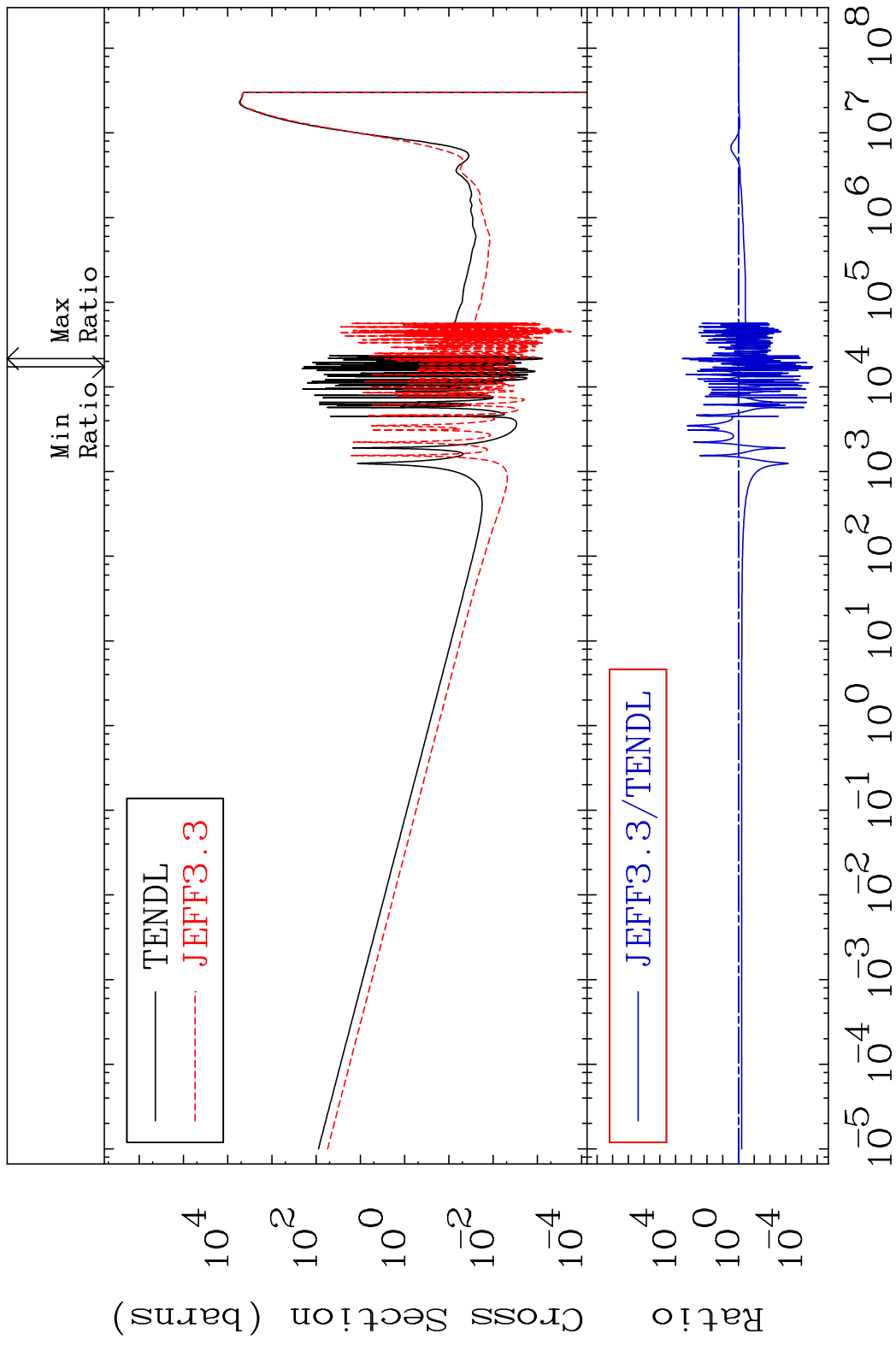
Incident Energy (eV)

55-Cs-137

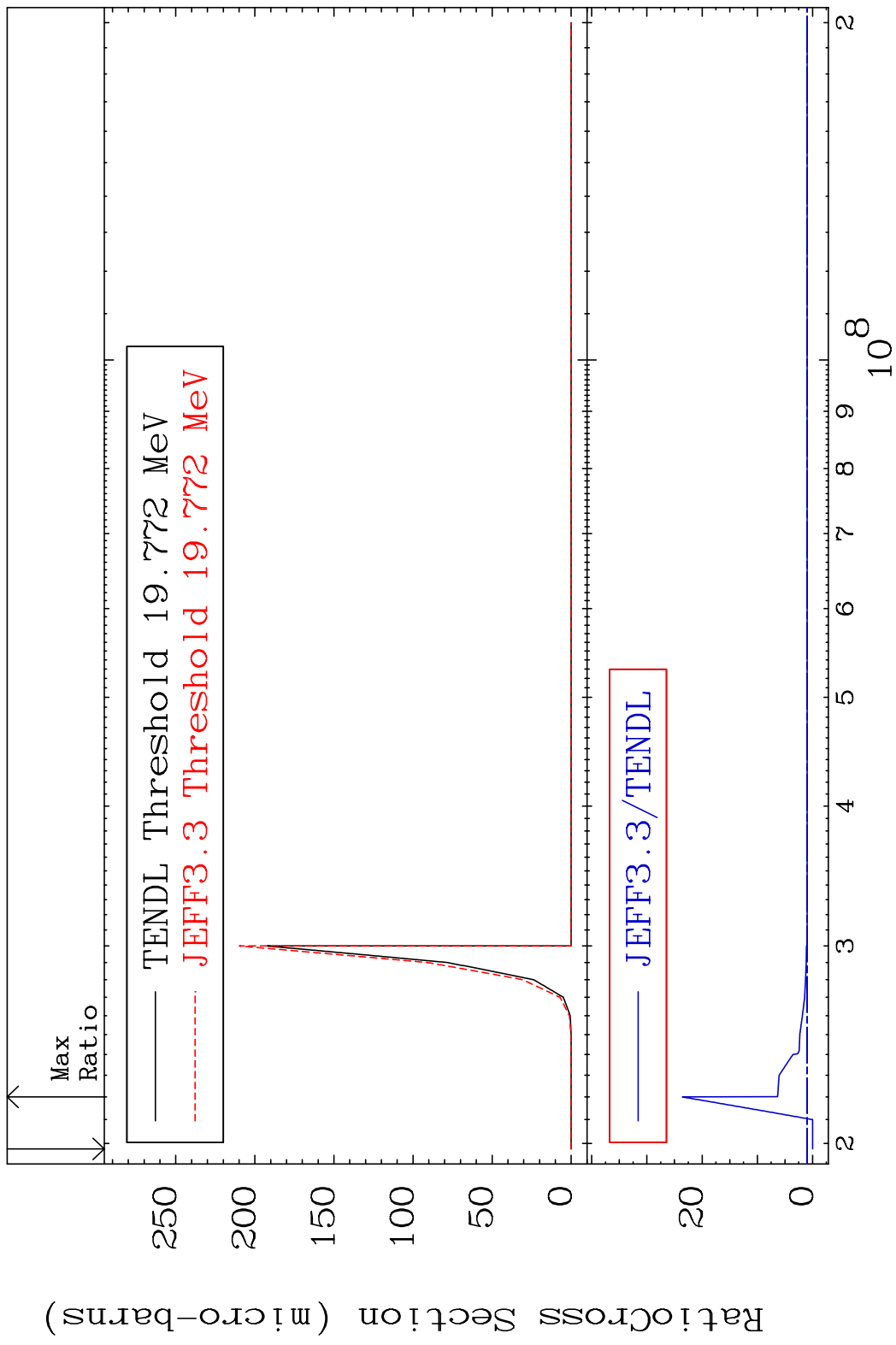
MAT 5537 Dpa inelastic (mt51-91) 55-Cs-137
 Cross Section -100.0 To 5.750 %

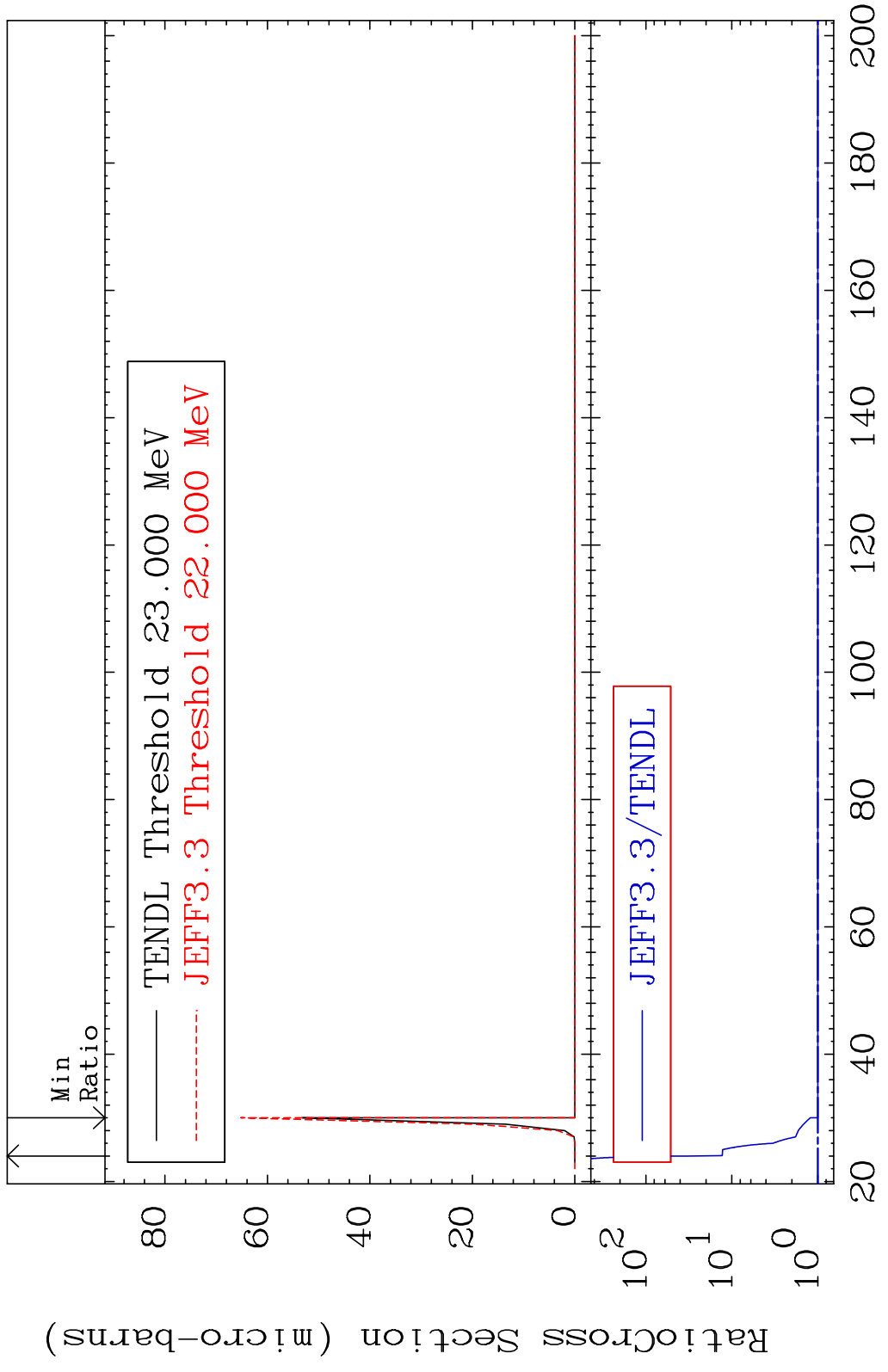


MAT 5537 Dpa disappearance (mt102 -120) 55-Cs-137
 Cross Section -100.0 To 9999. %

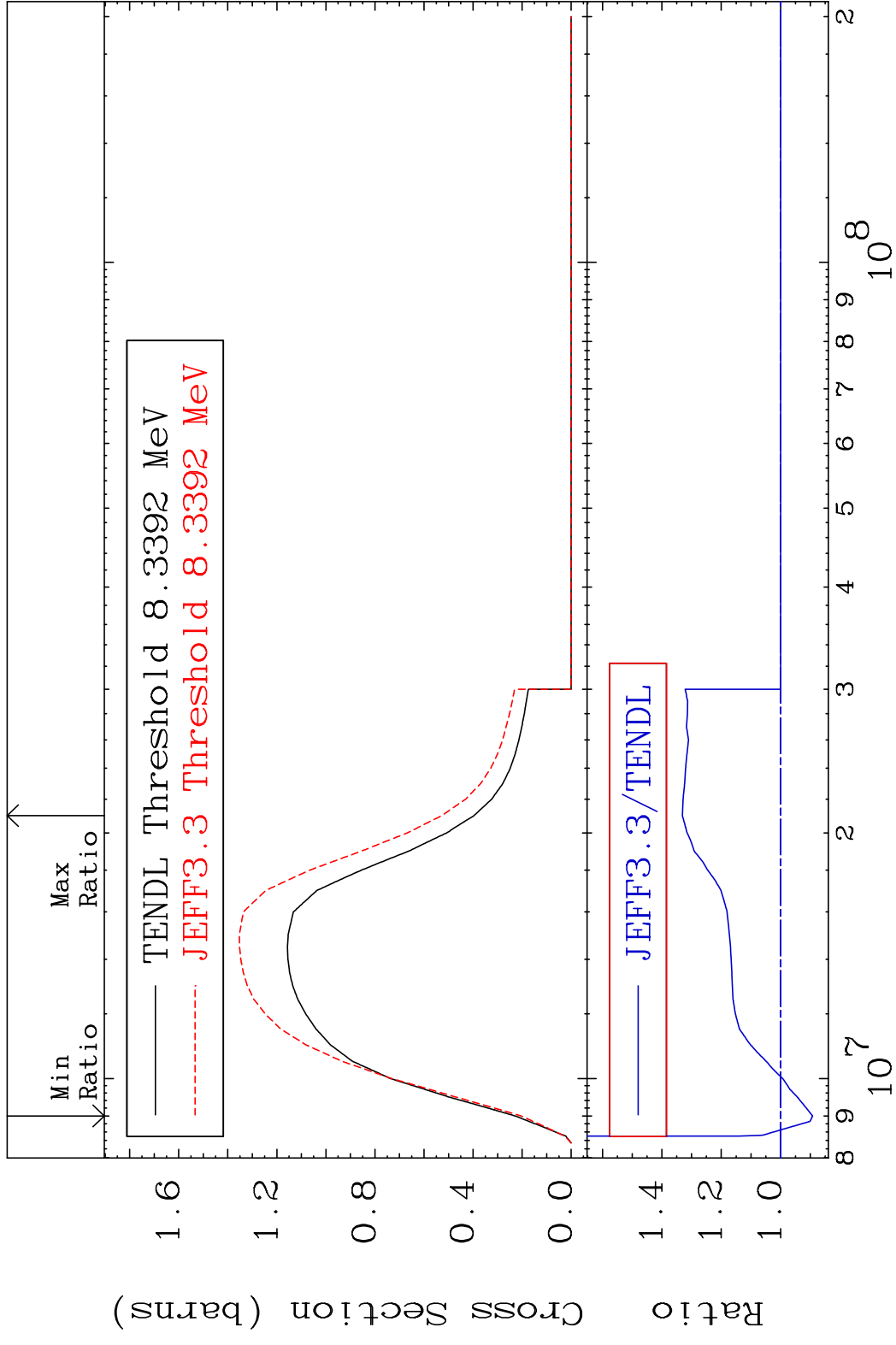


MAT 5537 (n,2n) d:54-Xe-134g 55-Cs-137
 Radionuclide Production Cross Section Ratio 2258. %

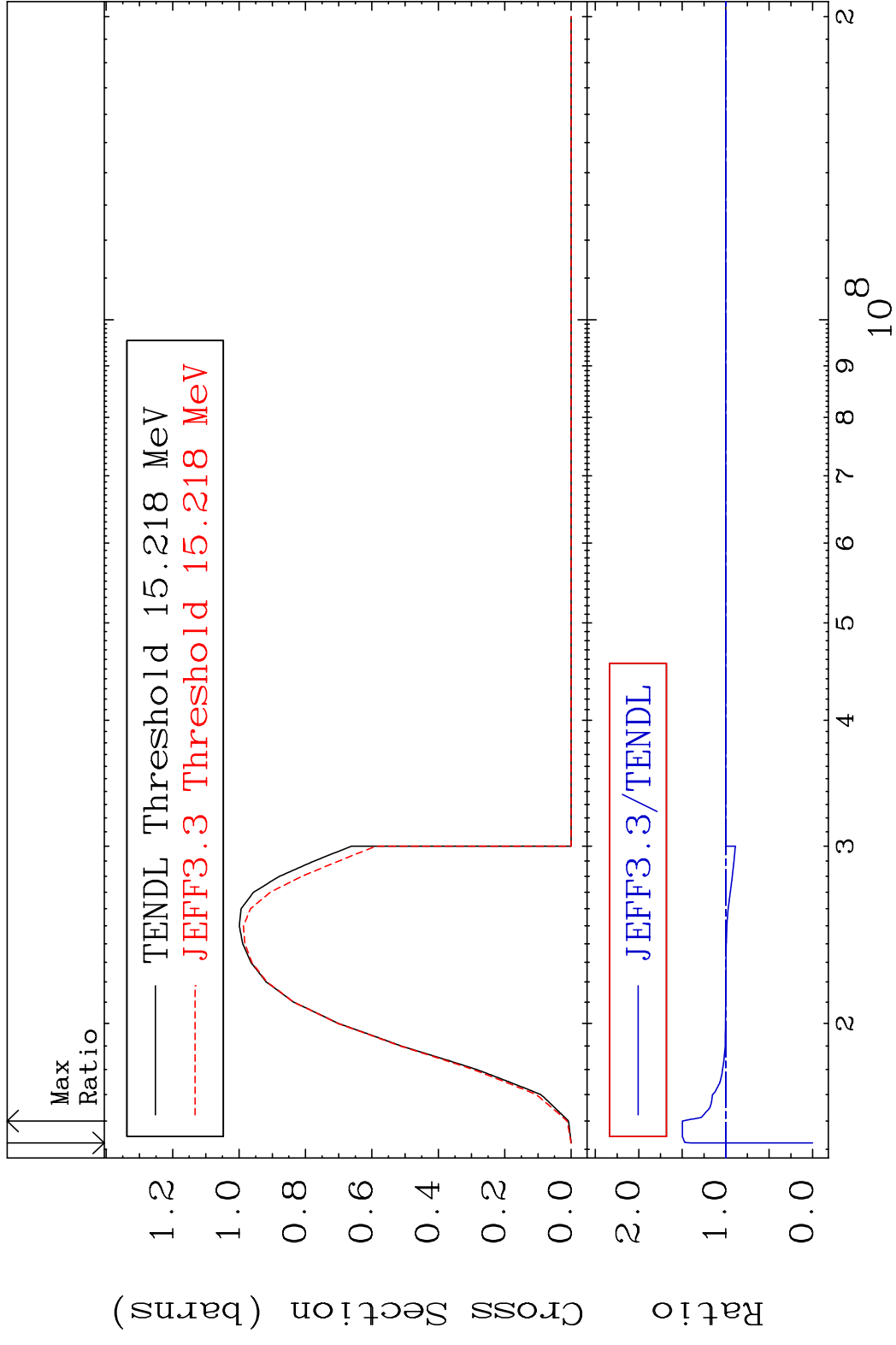




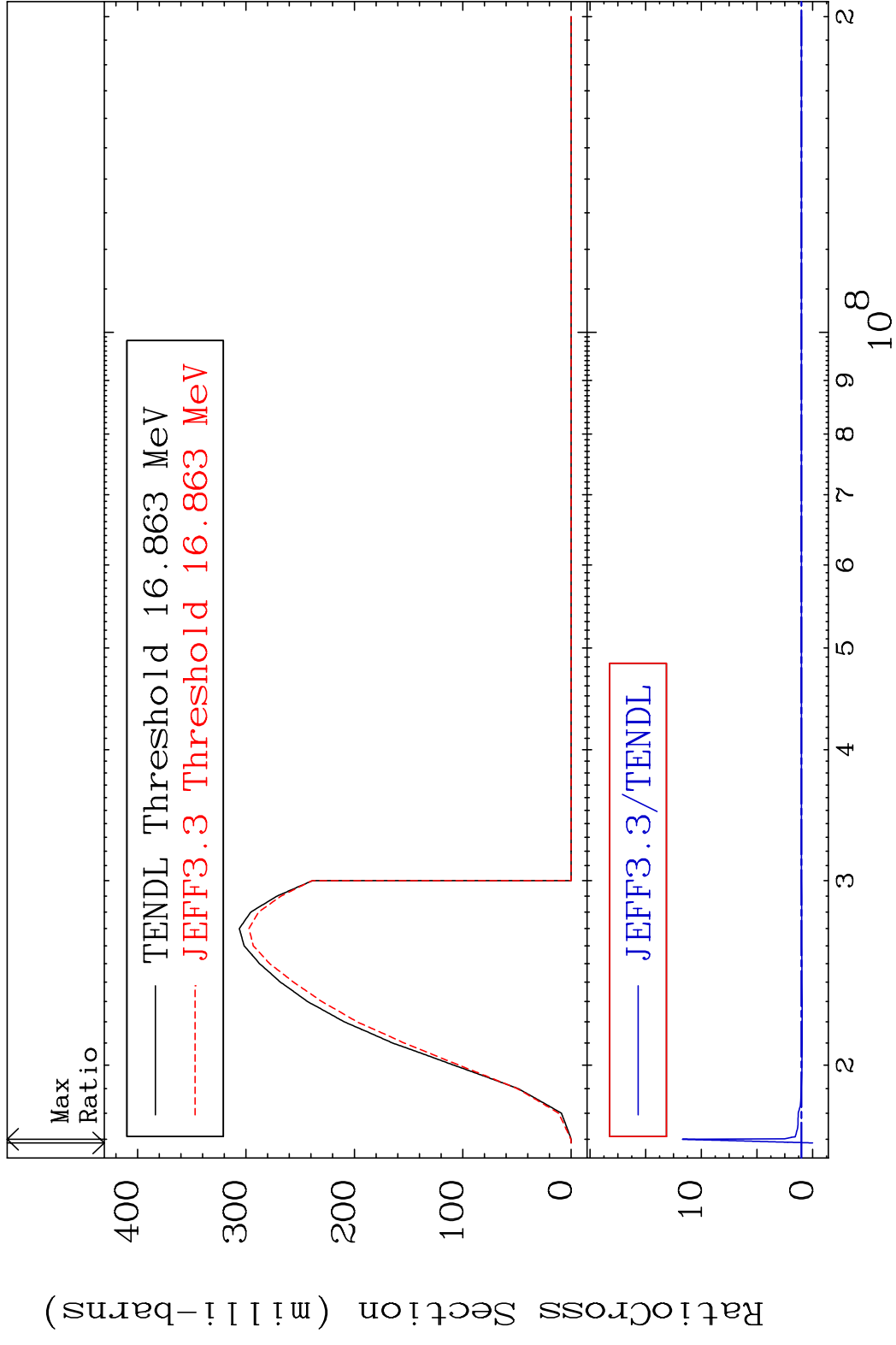
MAT 5537 (n,2n):55-Cs-136g 55-Cs-137
 Radionuclide Production Cross Section Ratio 33.11 %

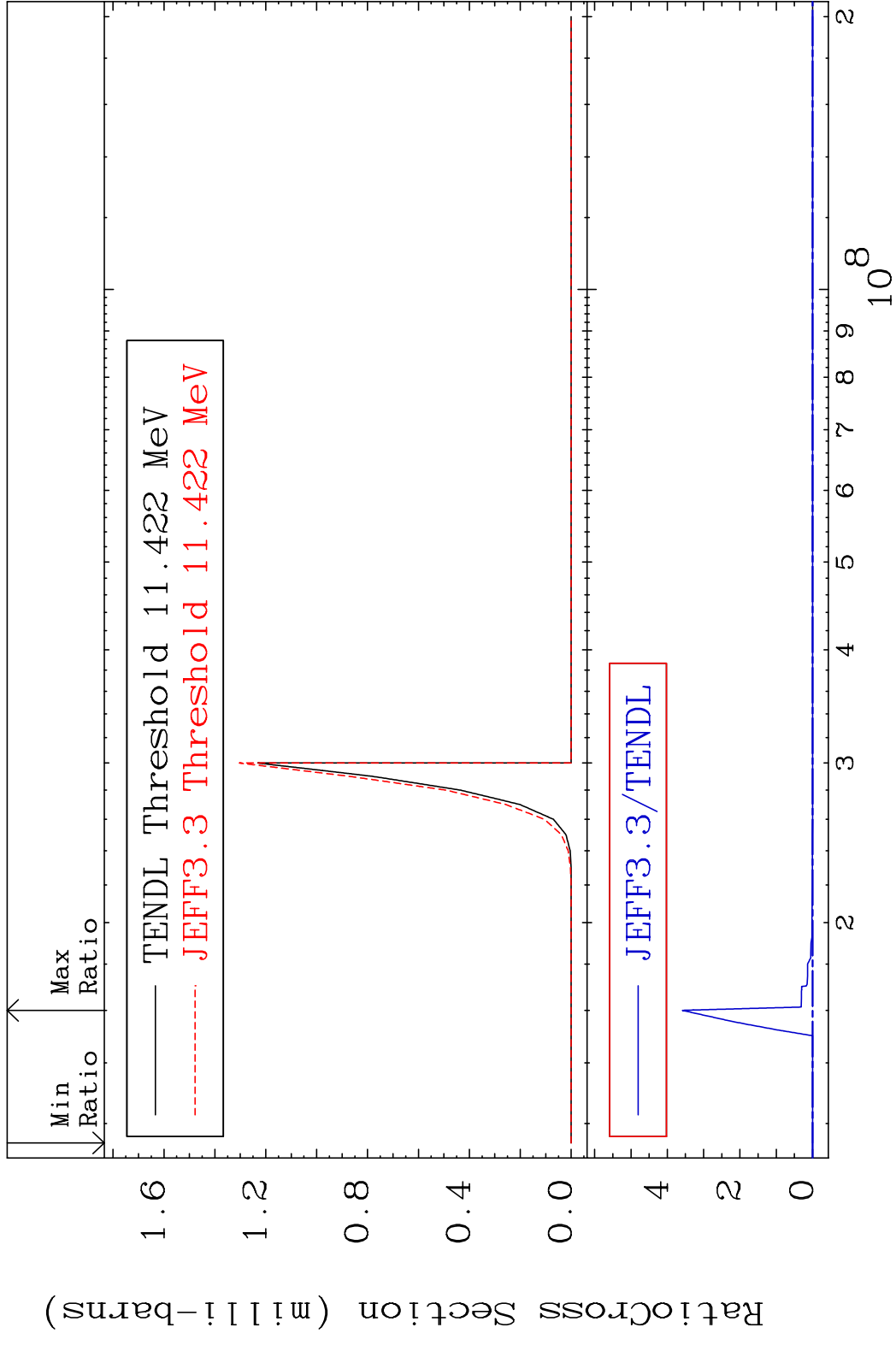


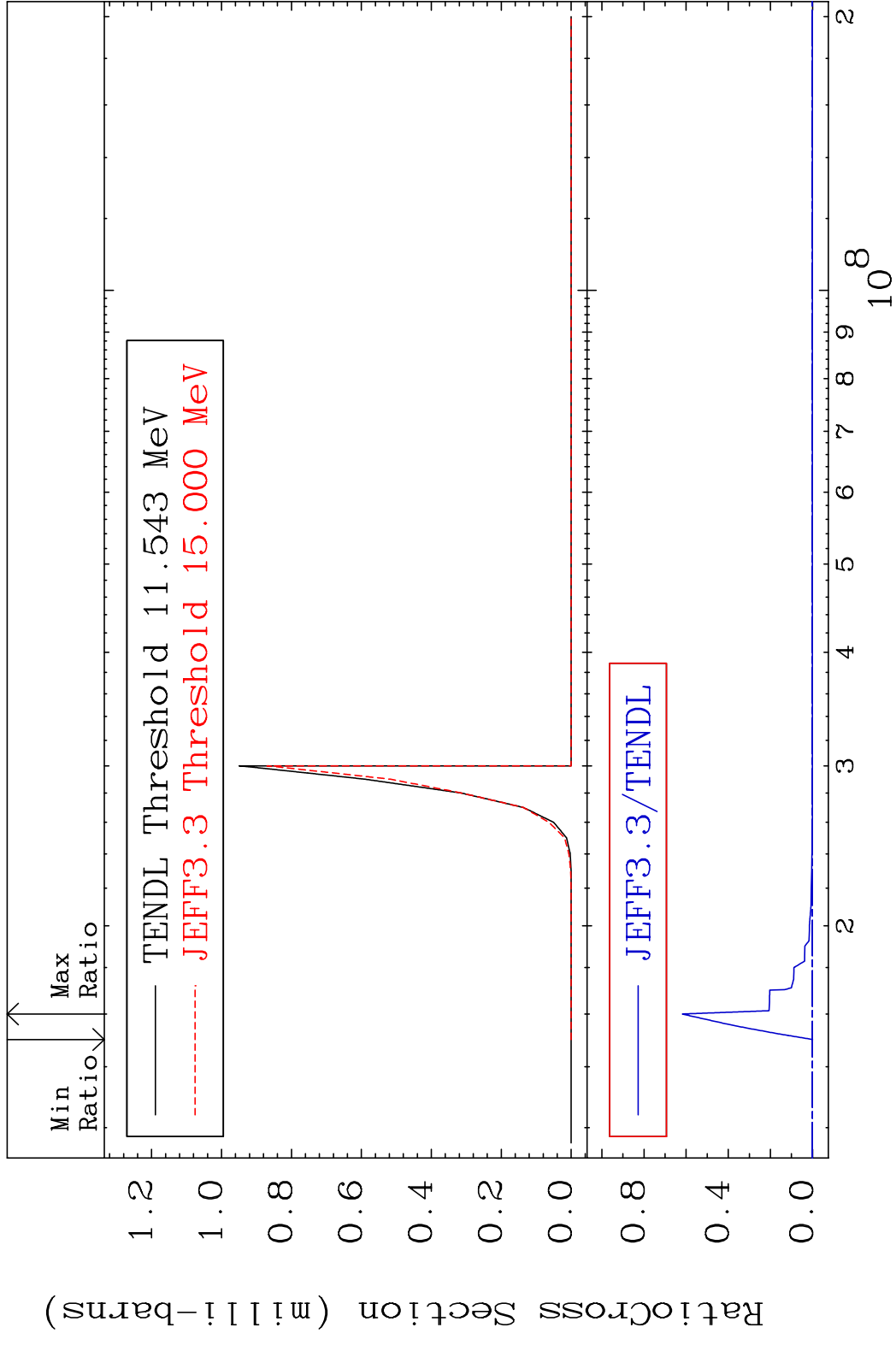
MAT 5537 (n,3n):55-Cs-135g 55-Cs-137
 Radionuclide Production Cross Section 49.88 %

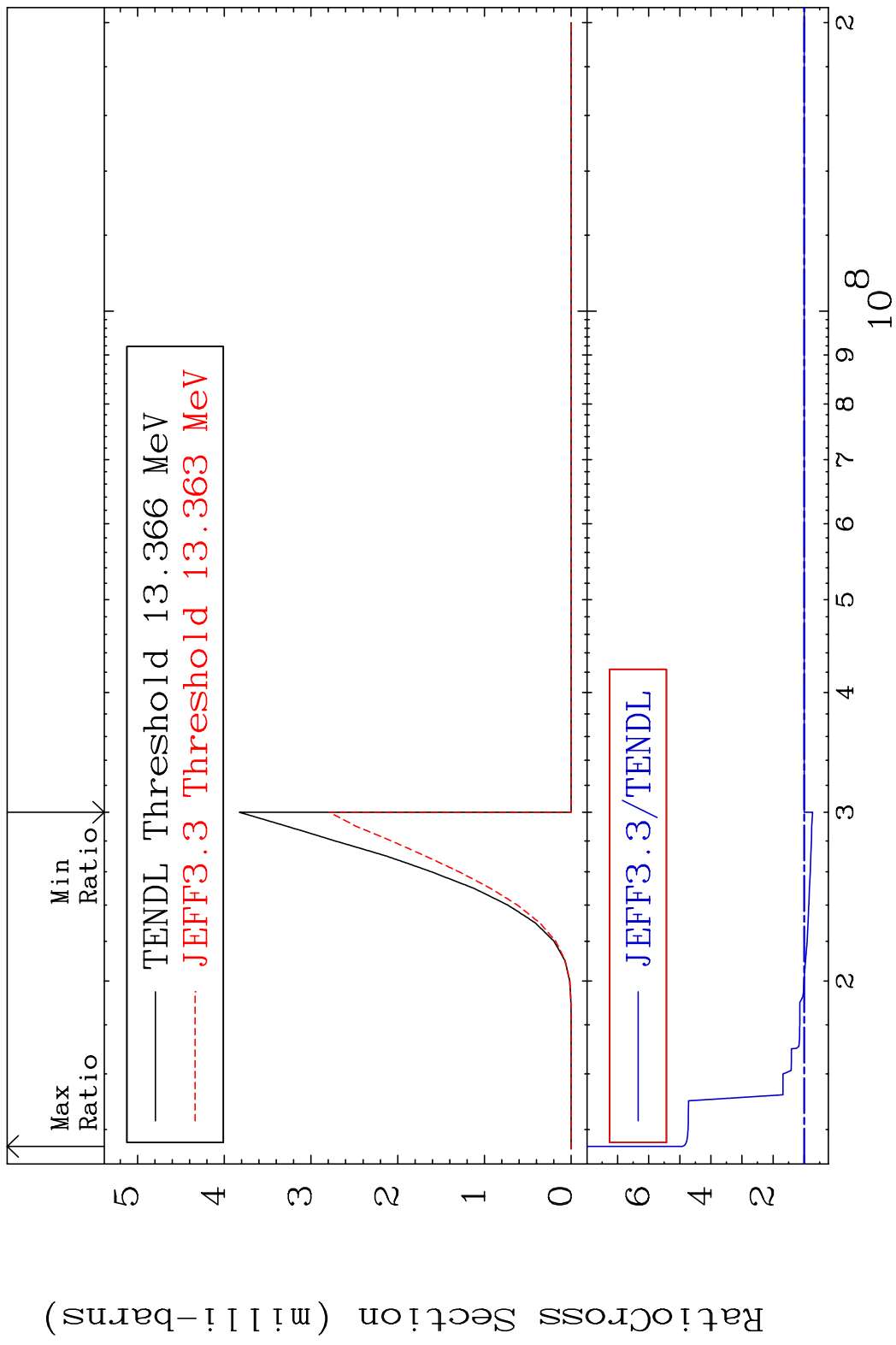


MAT 5537 (n,3n):55-Cs-135m10 55-Cs-137
 Radionuclide Production Cross Section 100.00 d10 1070. %

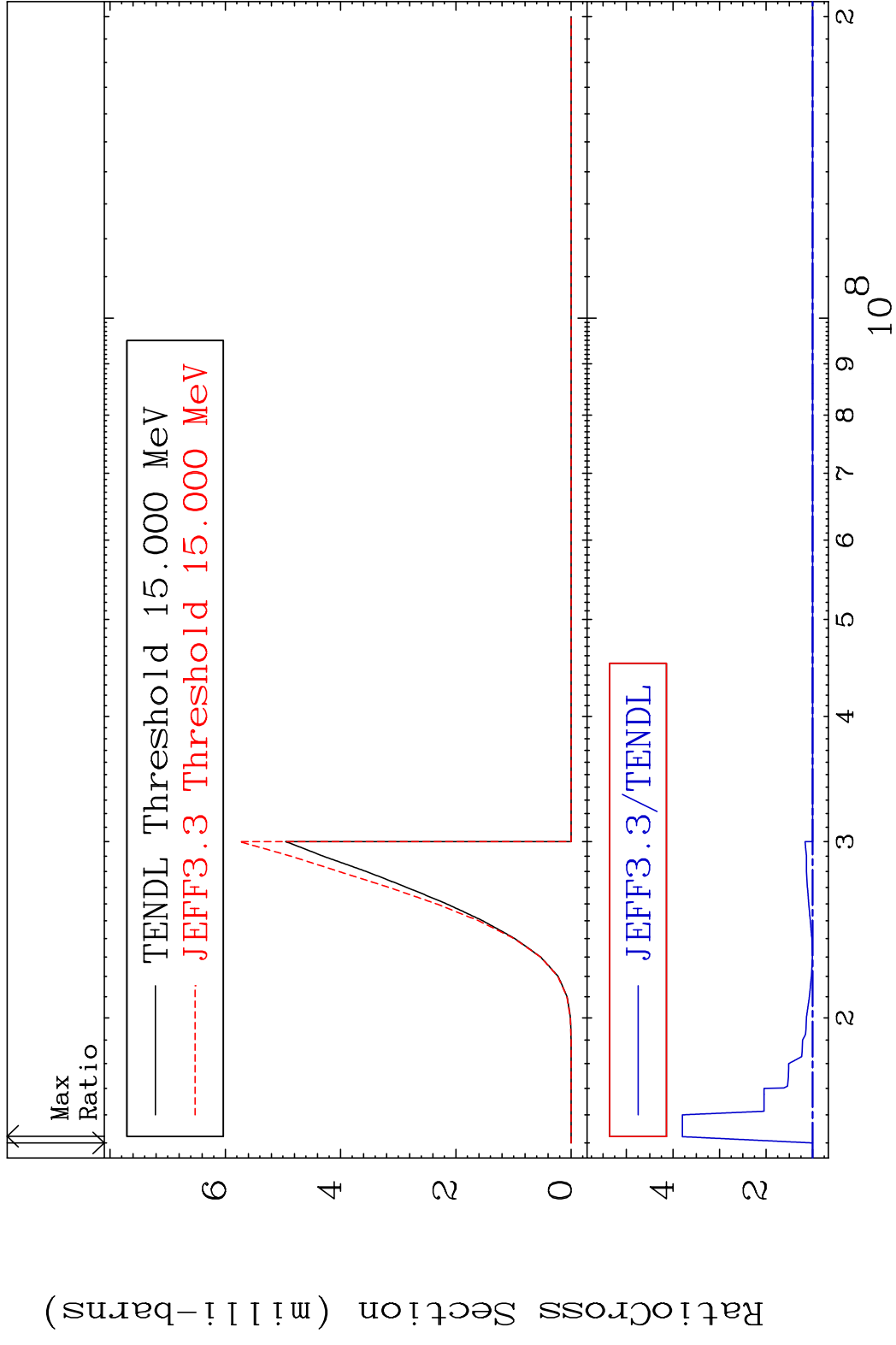




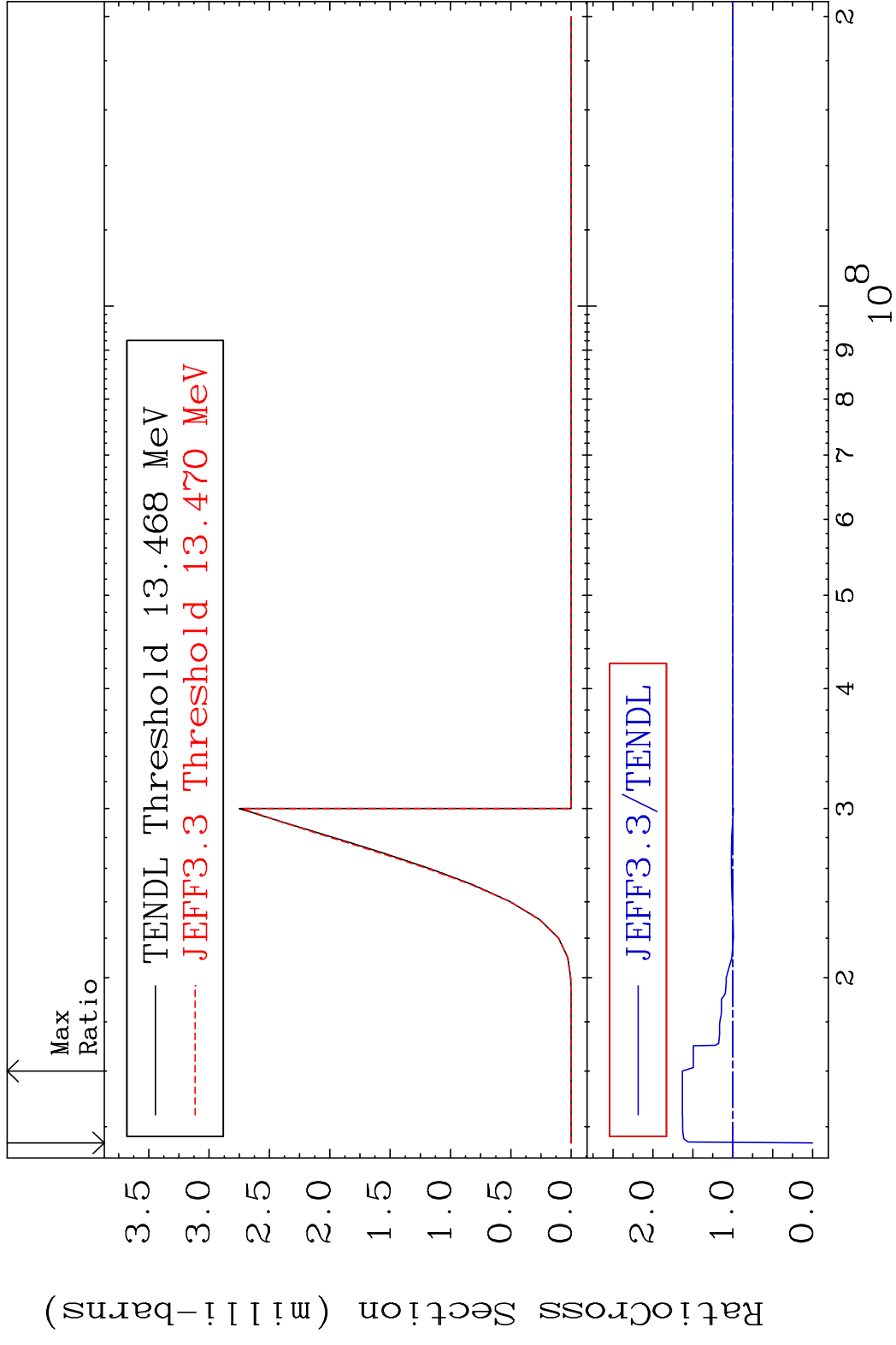


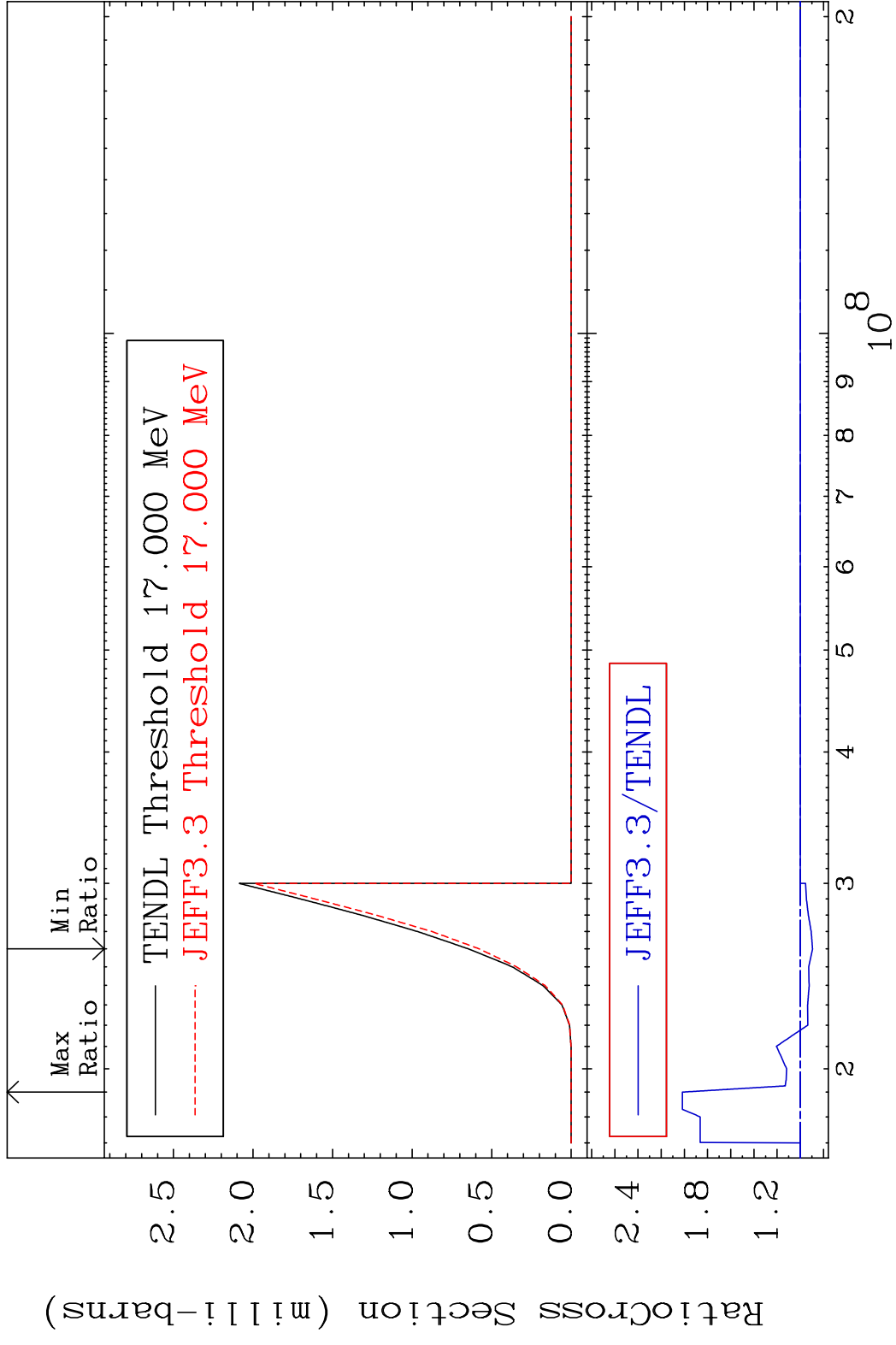


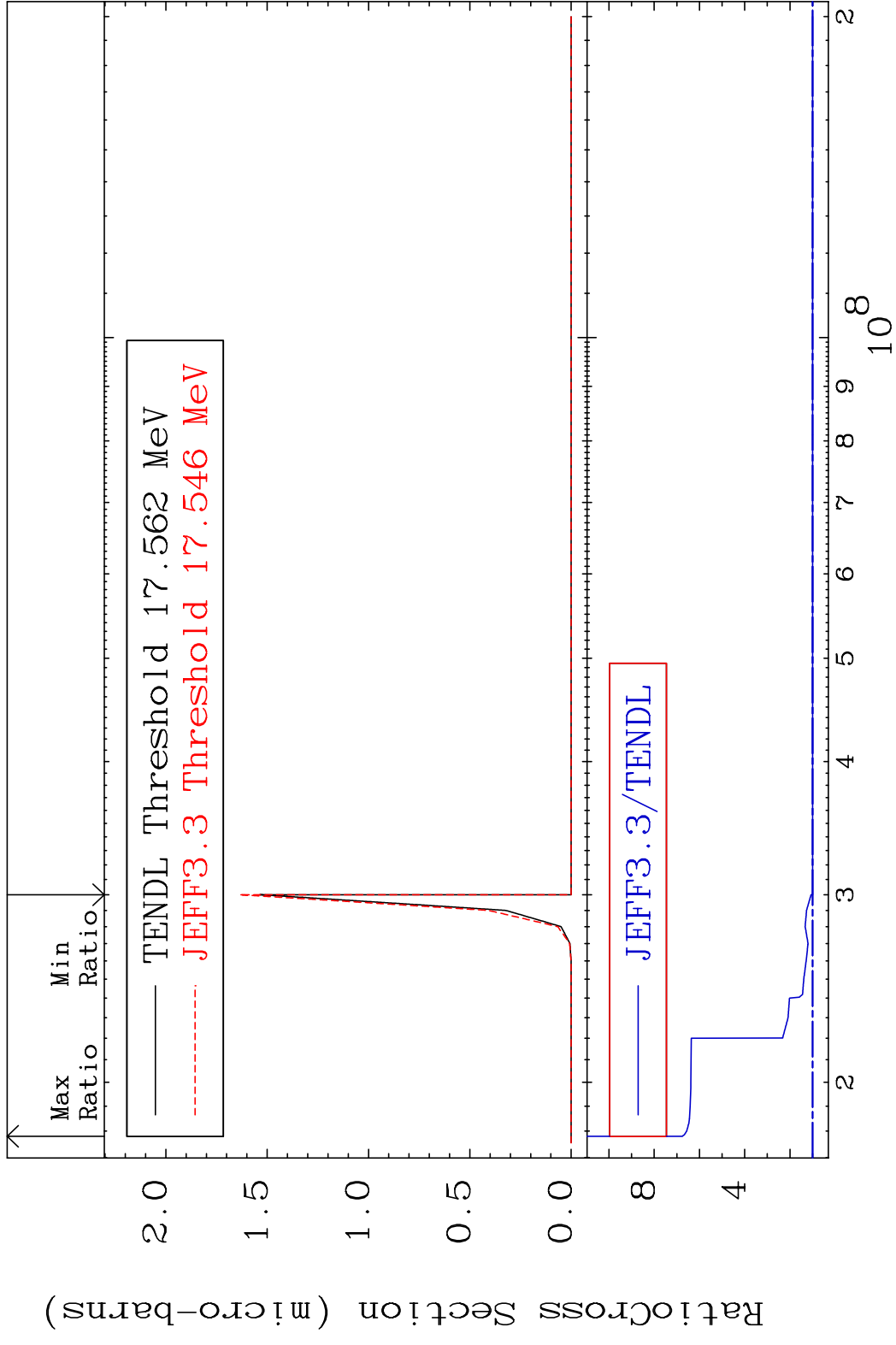
MAT 5537 (n, n') d:54-Xe-135m2 55-Cs-137
 Radionuclide Production Cross Section 279.8 %

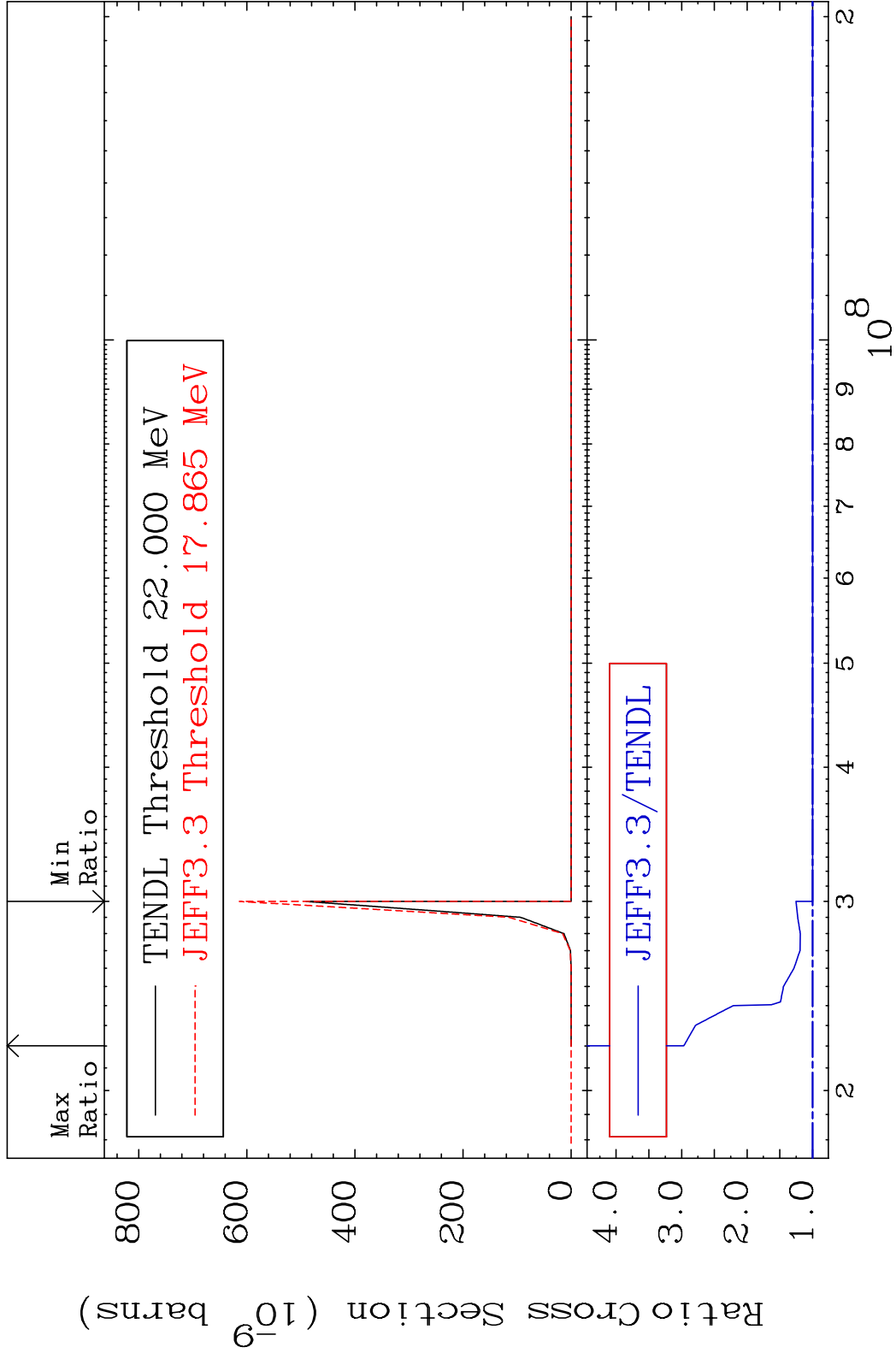


MAT 5537 (n, n') t:54-Xe-134g 55-Cs-137
 Radionuclide Production Cross Section Ratio 63.10 %

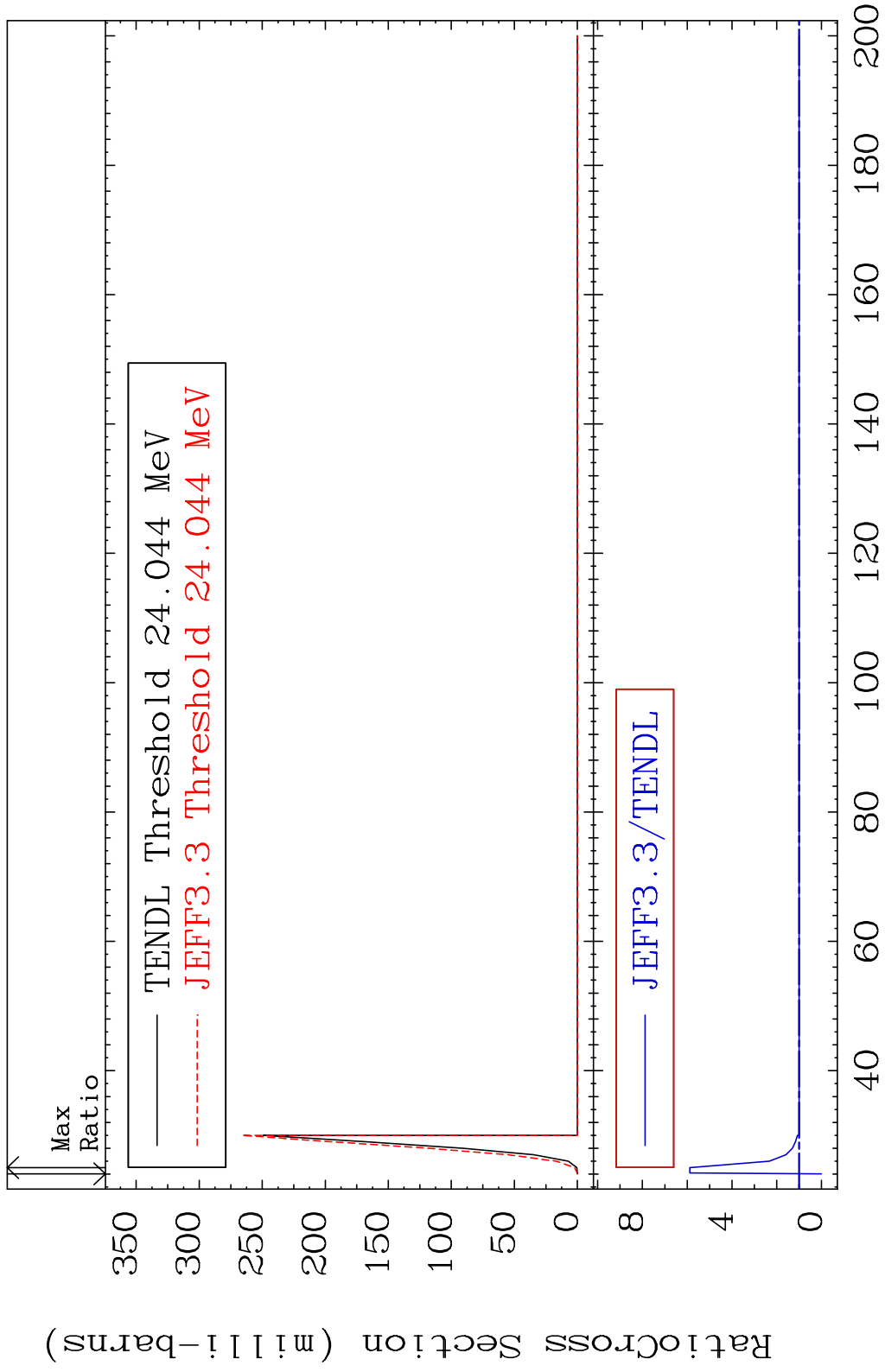




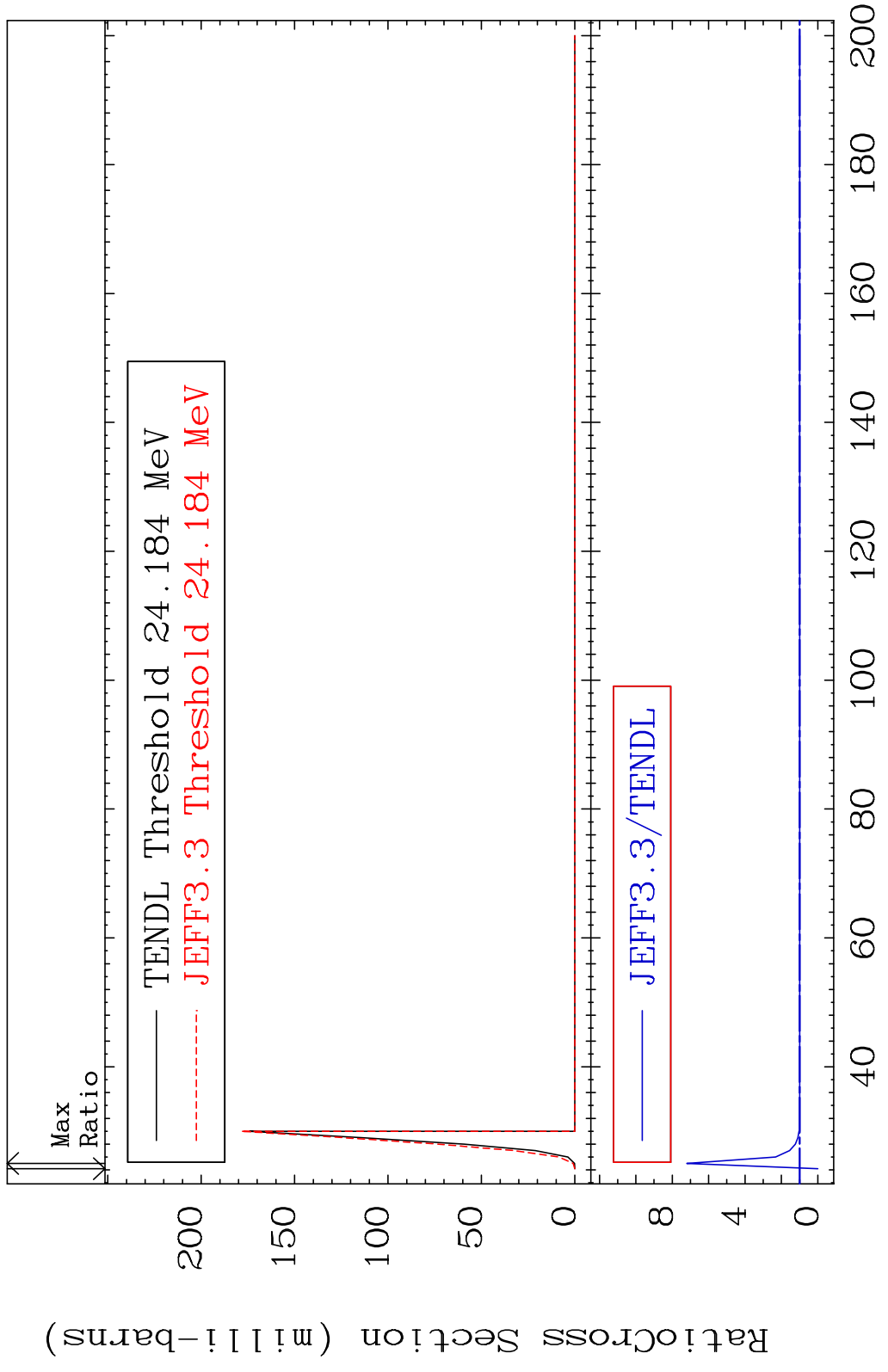


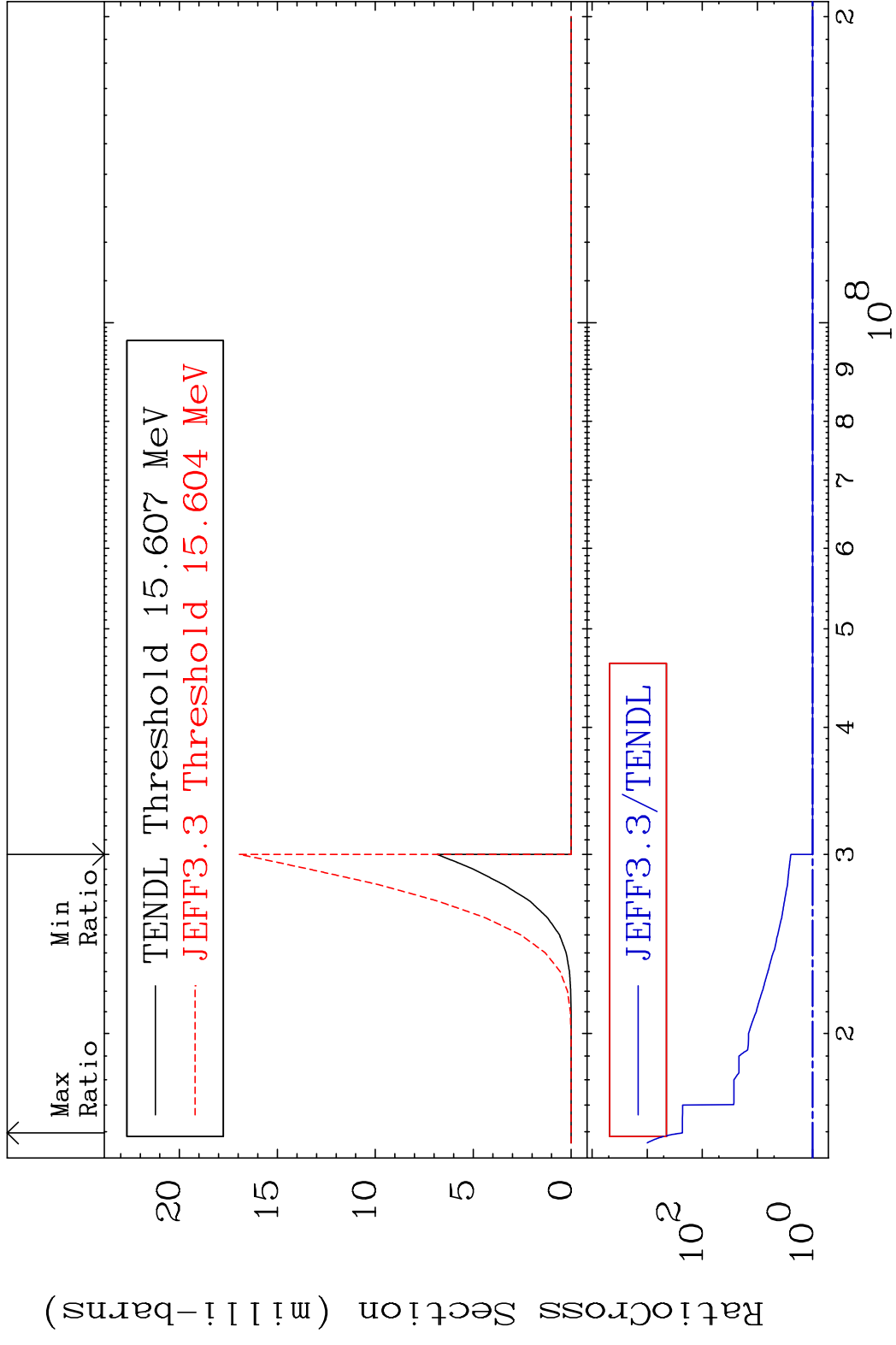


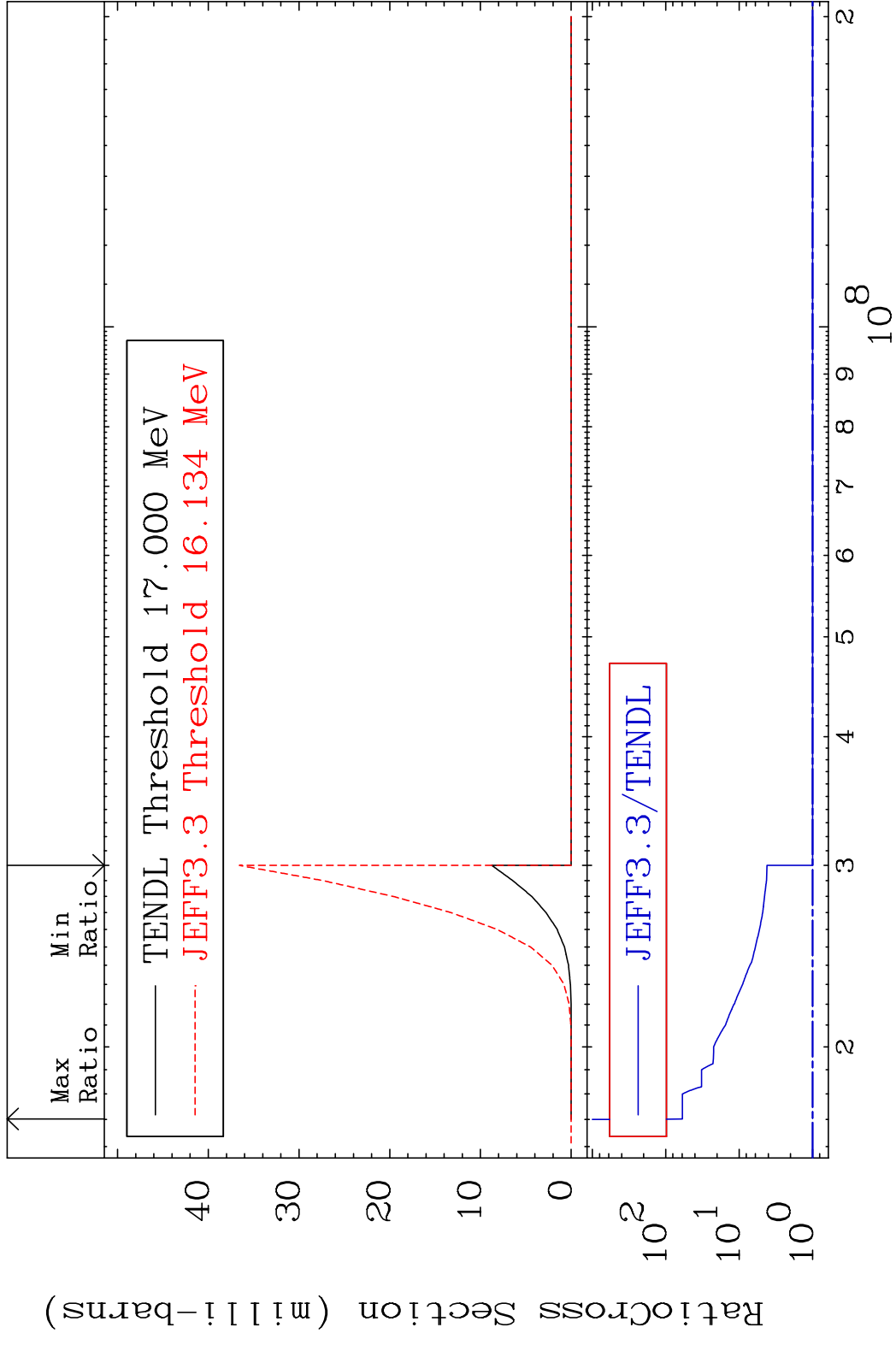
MAT 5537 (n,4n):55-Cs-134g 55-Cs-137
 Radionuclide Production Cross Section 180.01 dth 488.4 %

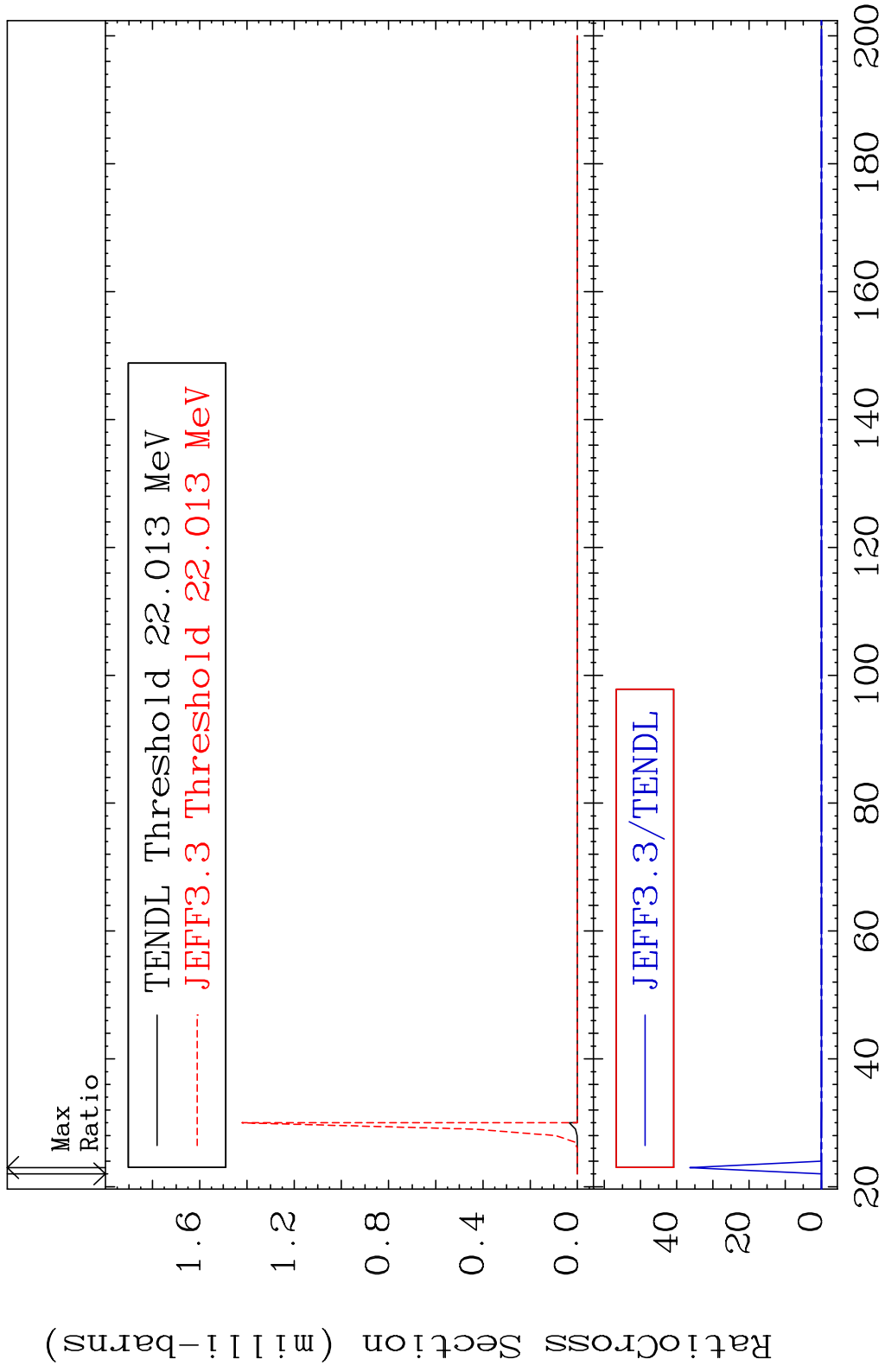


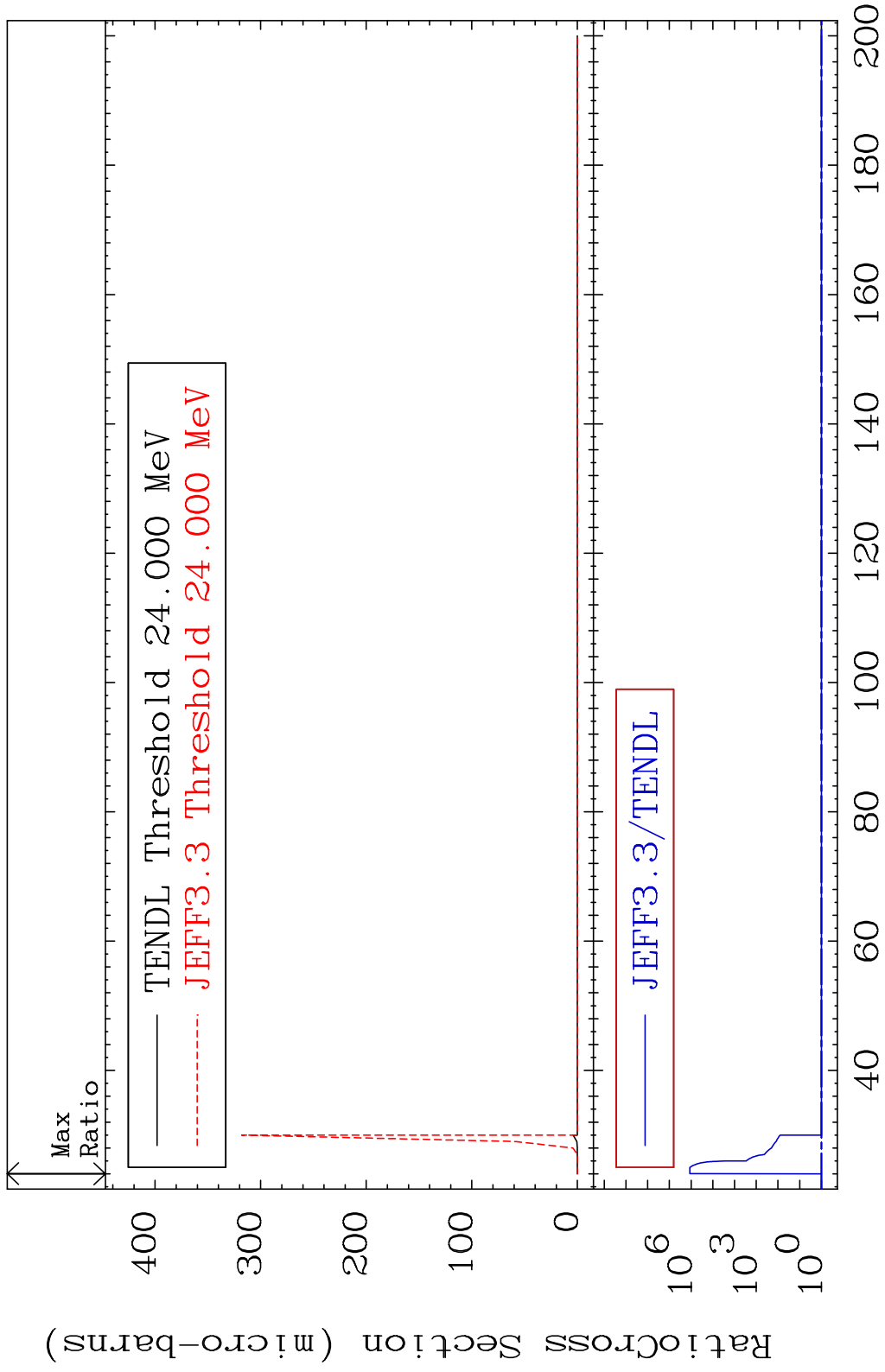
MAT 5537 (n, 4n):55-Cs-134m3 55-Cs-137
 Radionuclide Production Cross Section 180.01 dno 620.3 %



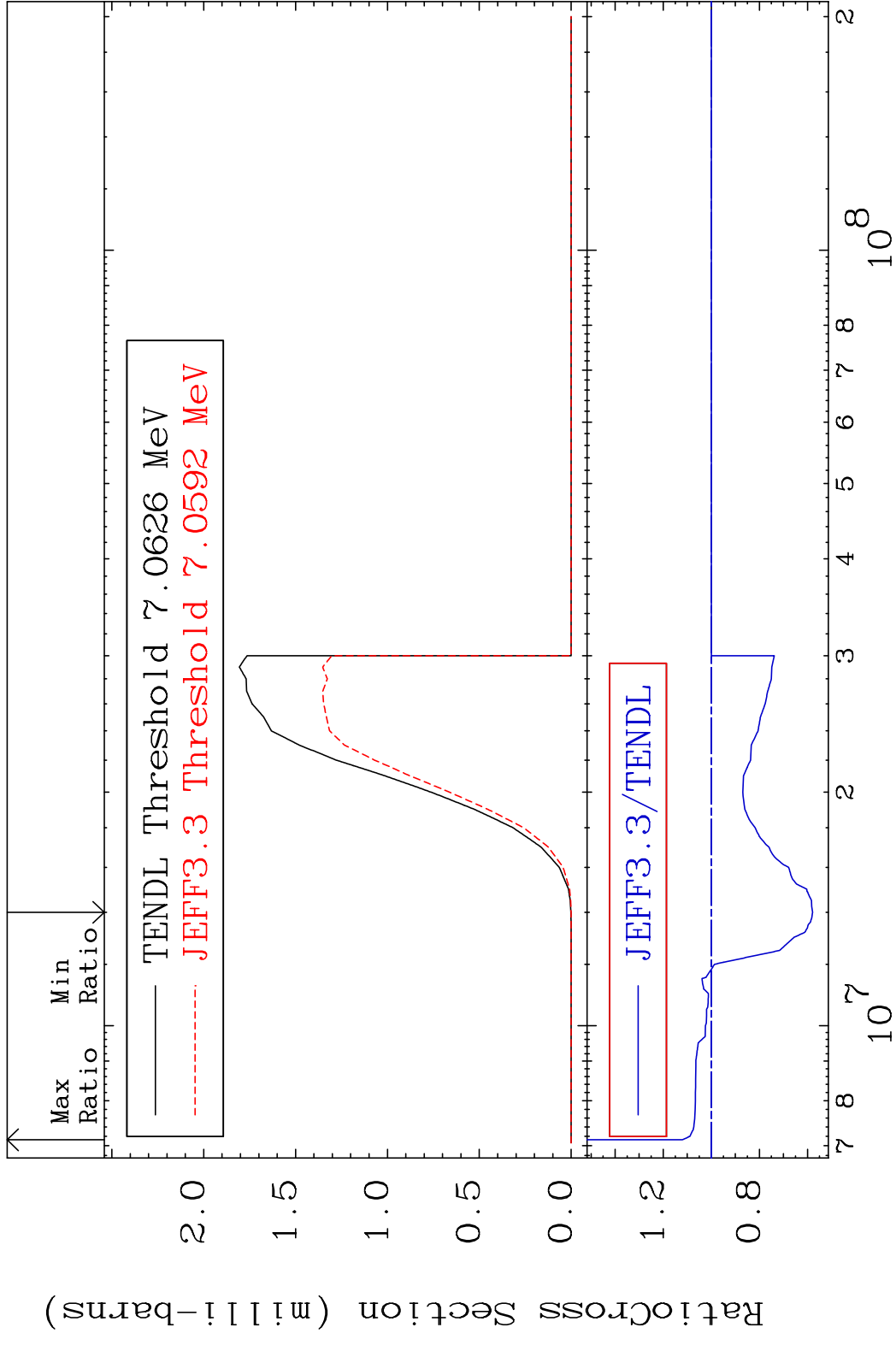




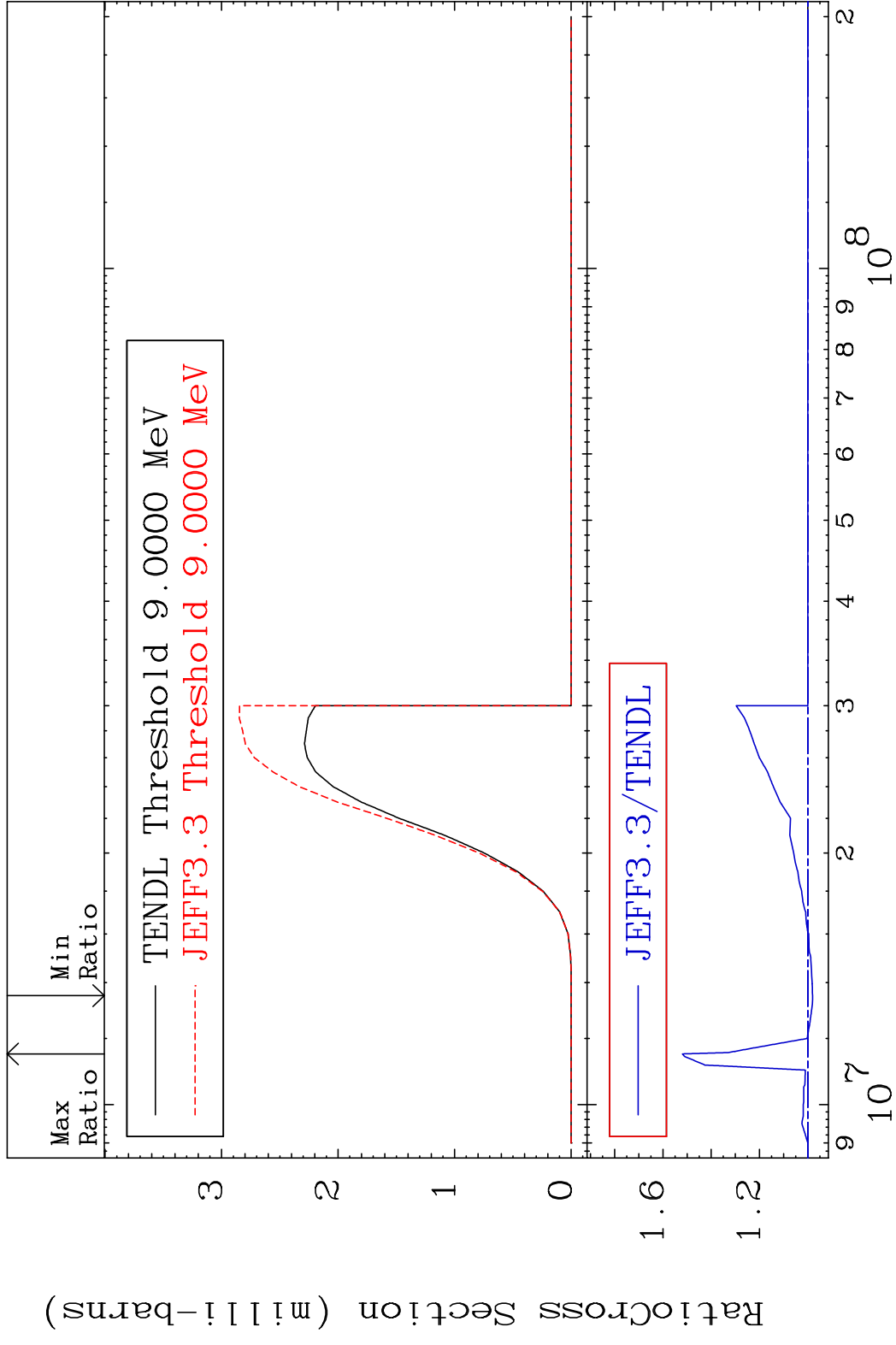




MAT 5537 (n, t):54-Xe-135g 55-Cs-137
 Radionuclide Production Cross Section 12.04 %

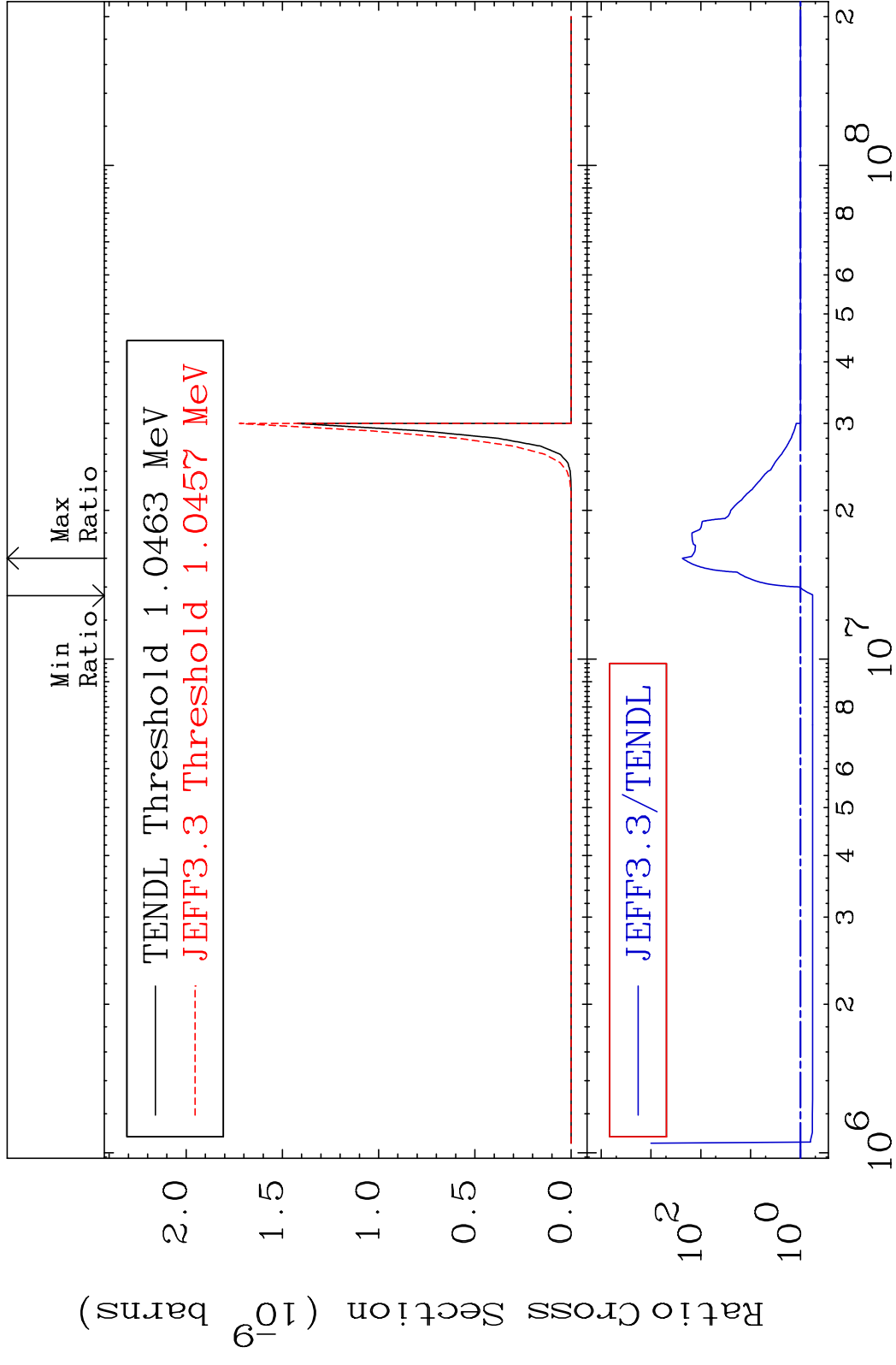


MAT 5537 (n, t):54-Xe-135m2 55-Cs-137
 Radionuclide Production Cross Section 51.96 %

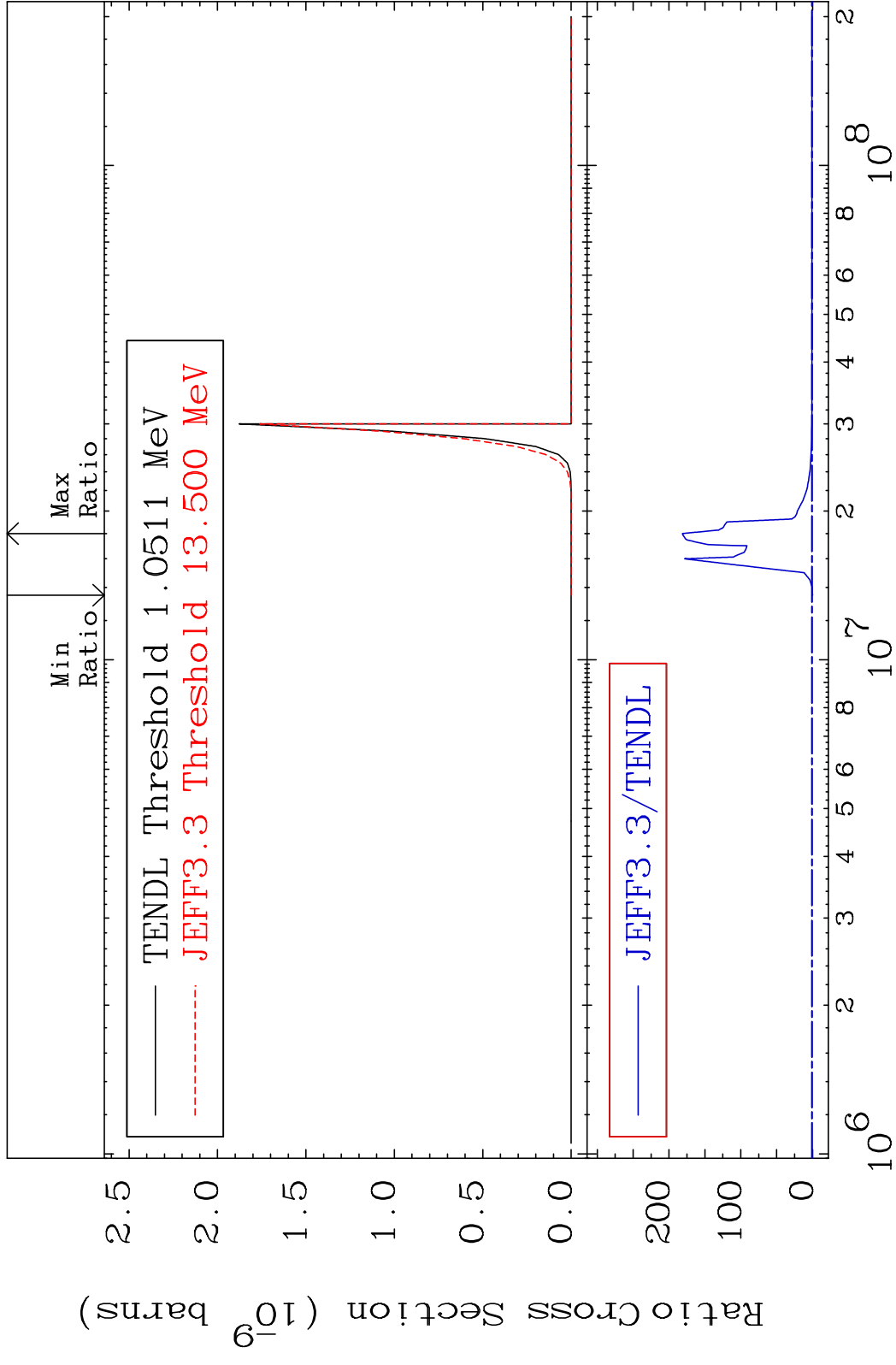


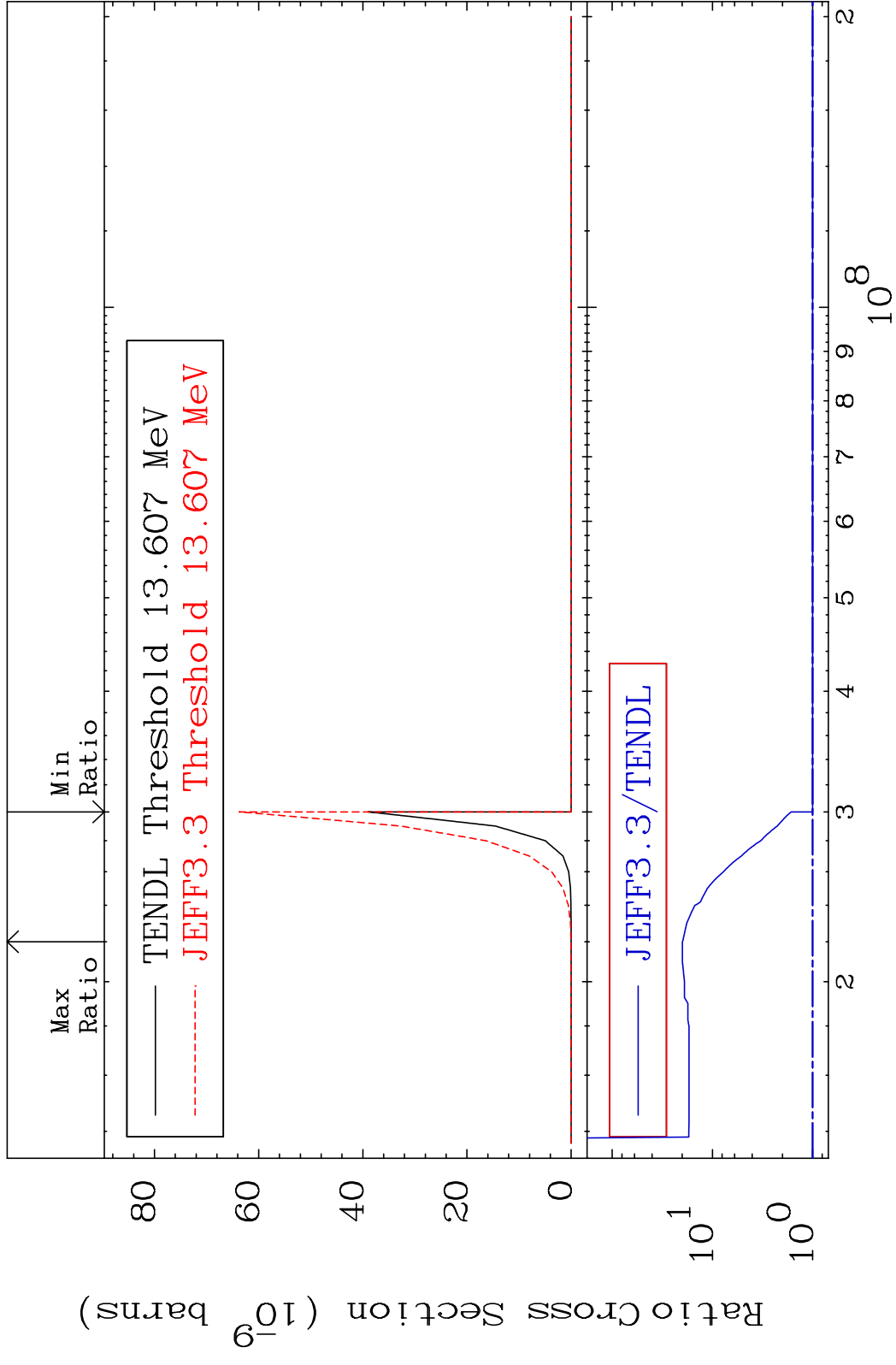
94 Incident Energy (eV) 55-Cs-137

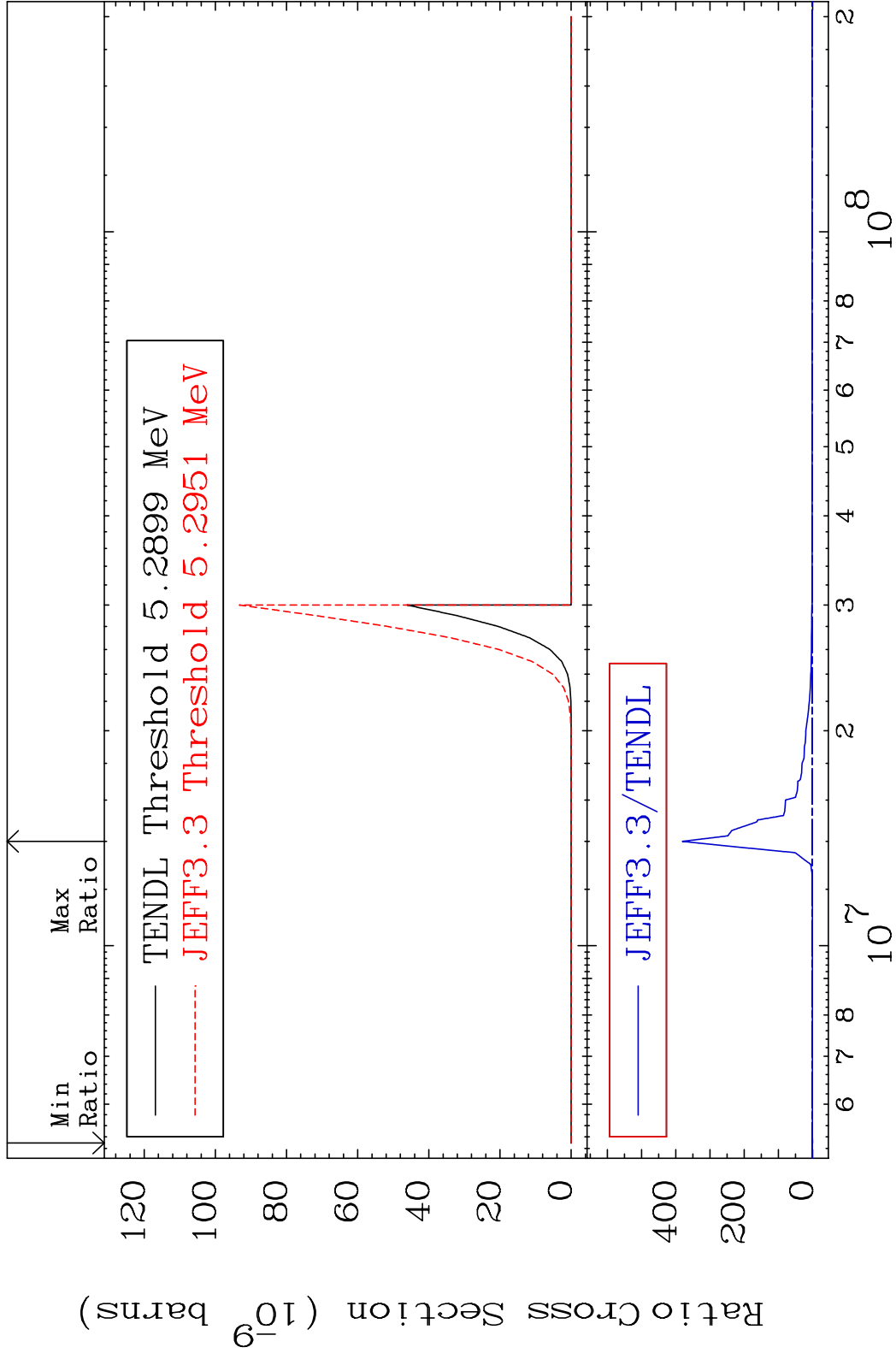
MAT 5537 (n,2α):51-Sb-130g 55-Cs-137
 Radionuclide Production Cross Section Ratio 9999. %



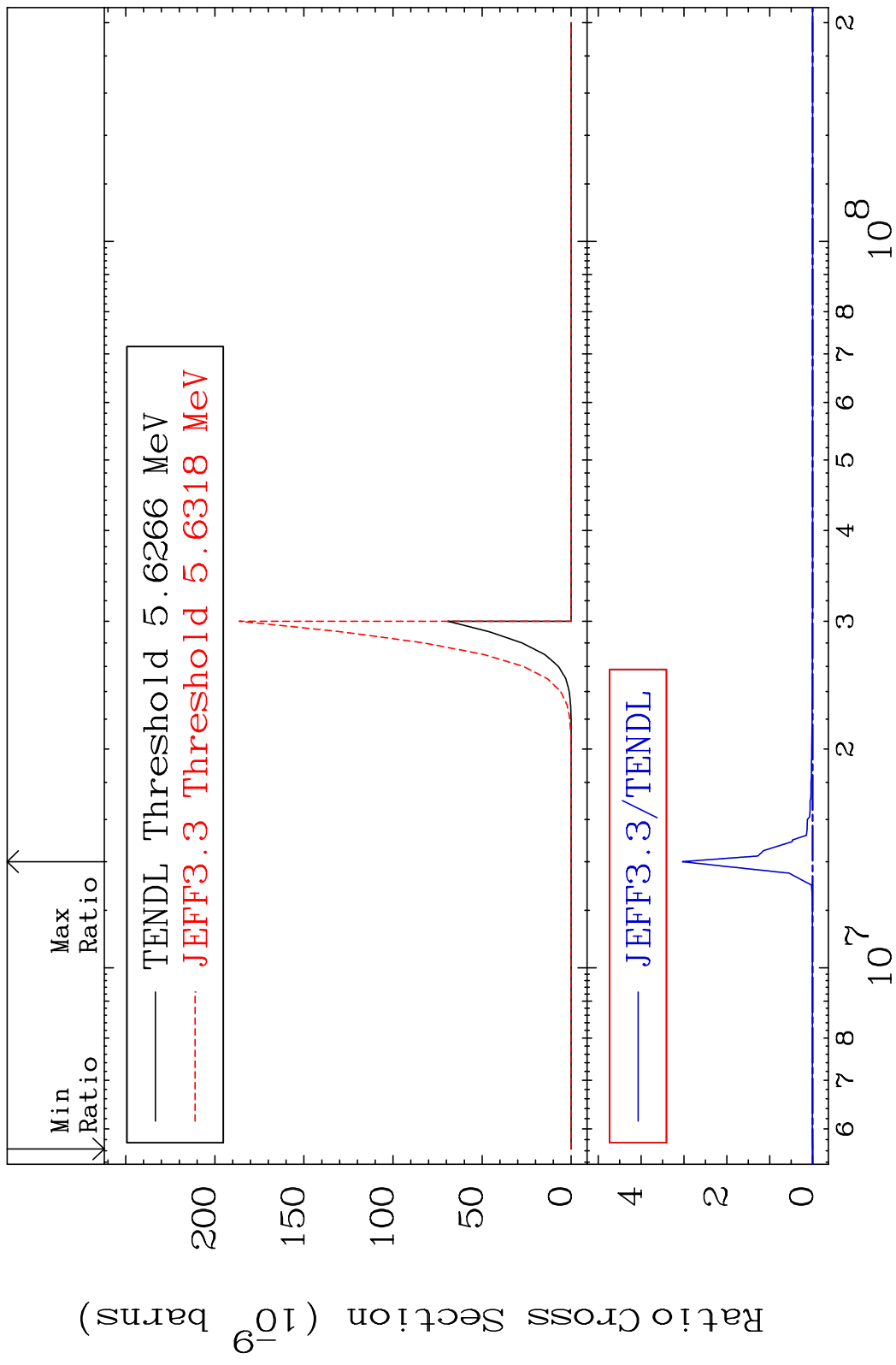
95 Incident Energy (eV) 55-Cs-137



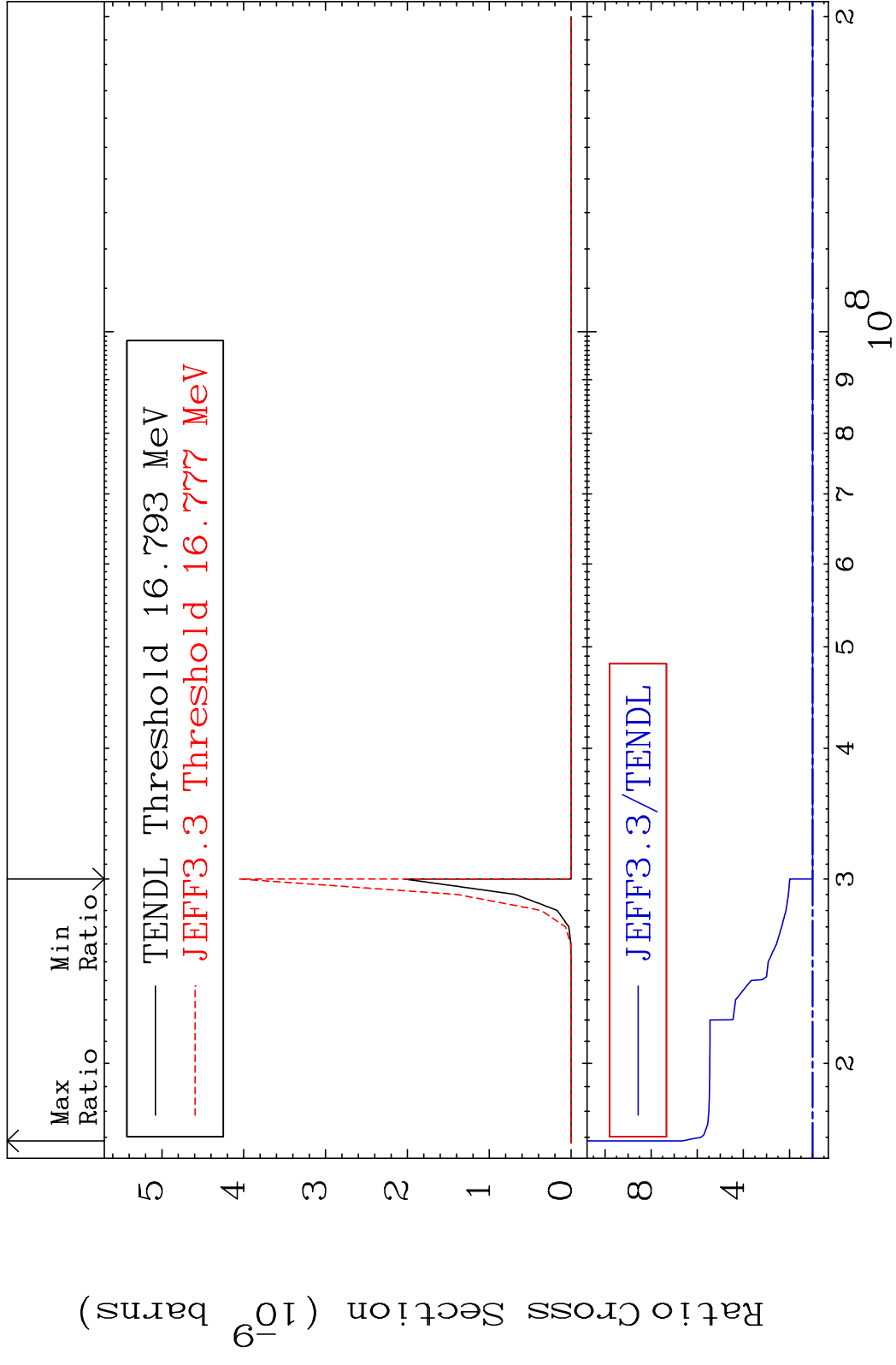




MAT 5537 (n, p) α :52-Te-133m2 55-Cs-137
 Radionuclide Production Cross Section Ratio 9999. %



MAT 5537 (n,p) t:53-I -134g 55-Cs-137
 Radionuclide Production Cross Section 564.5 %



100 Incident Energy (eV) 55-Cs-137

