

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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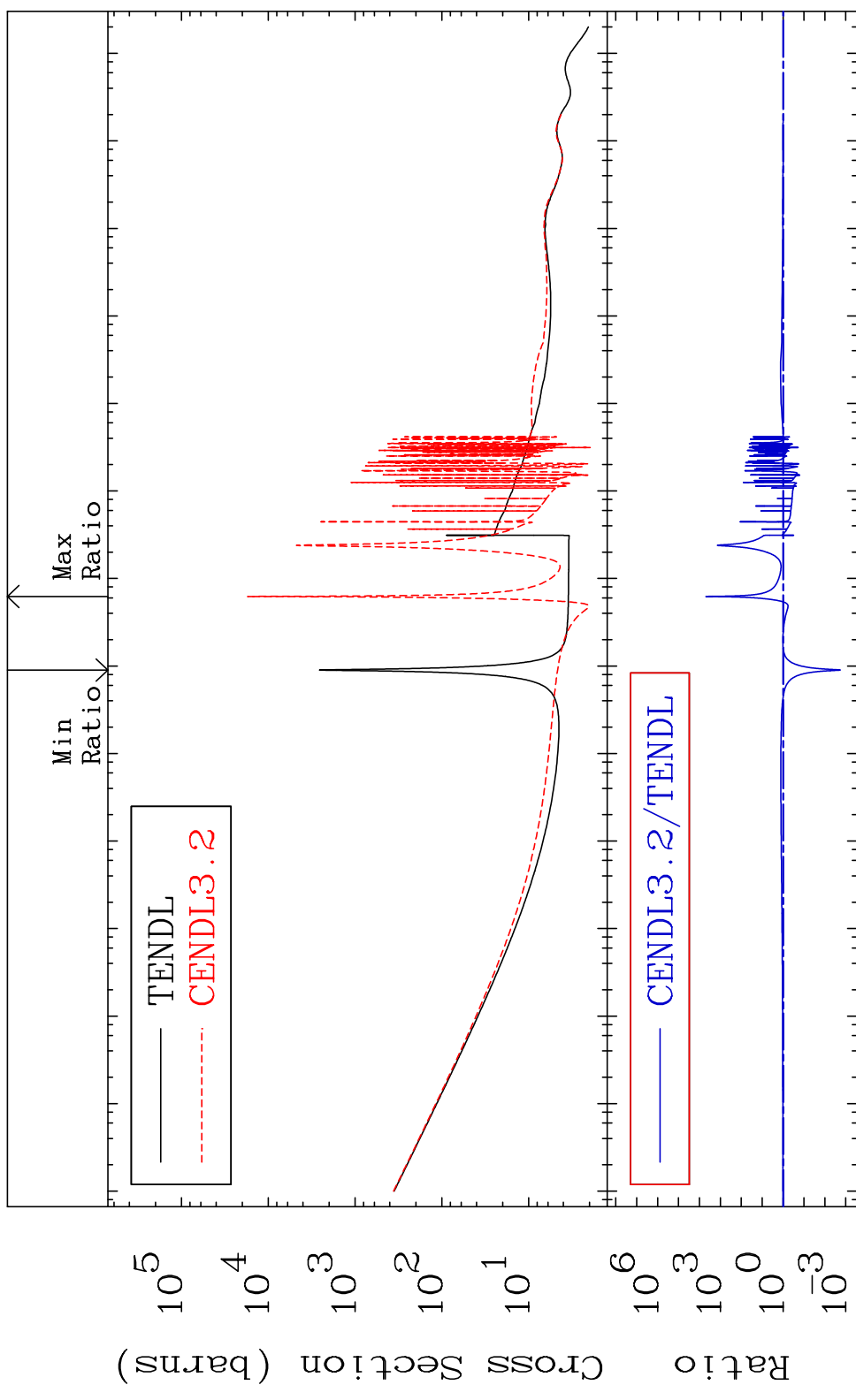
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5143

Total Cross Section -99.82 To 9999. %

51-Sb-127



1

Incident Energy (eV)

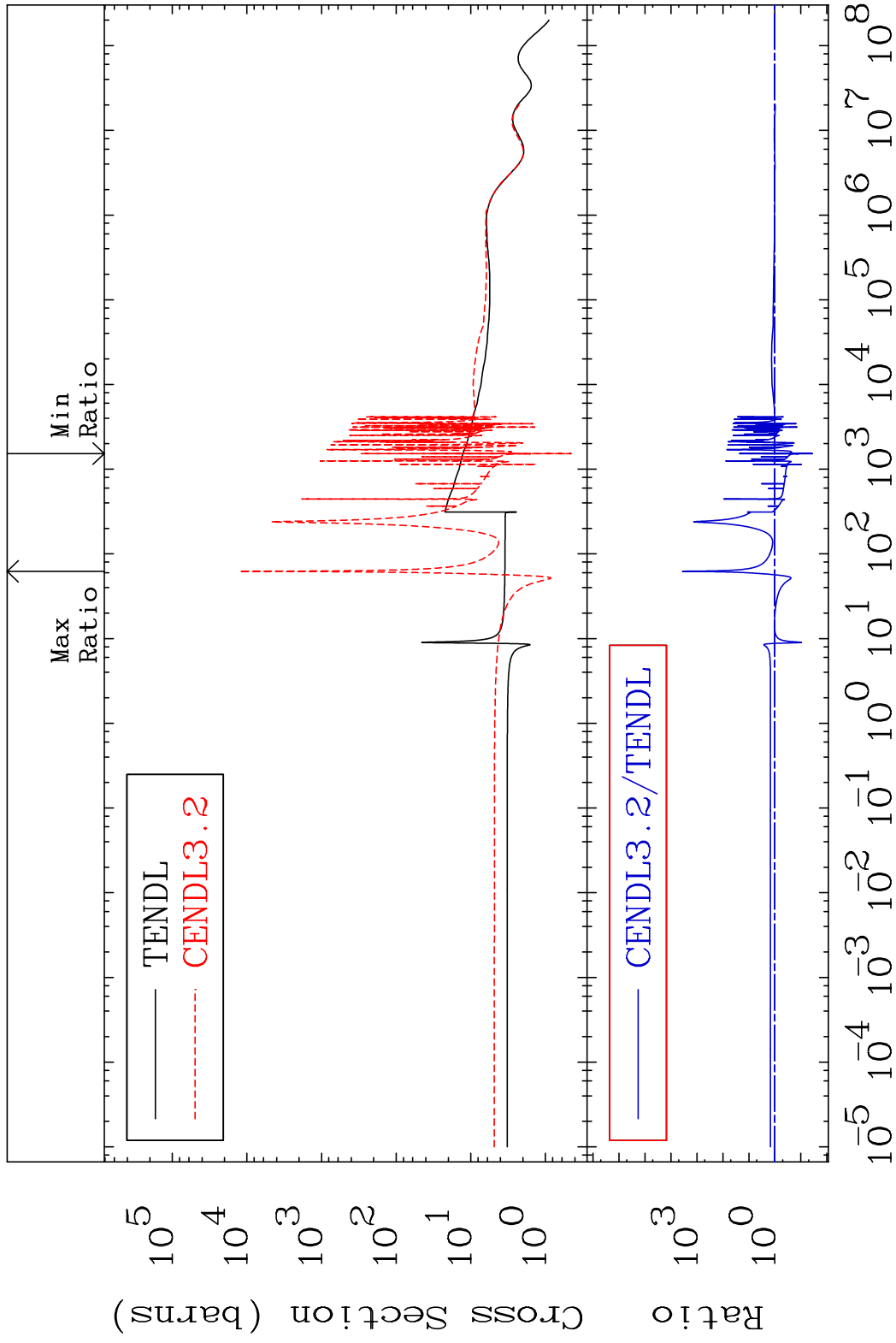
51-Sb-127

MAT 5143

Elastic

51-Sb-127

Cross Section -96.46 To 9999. %

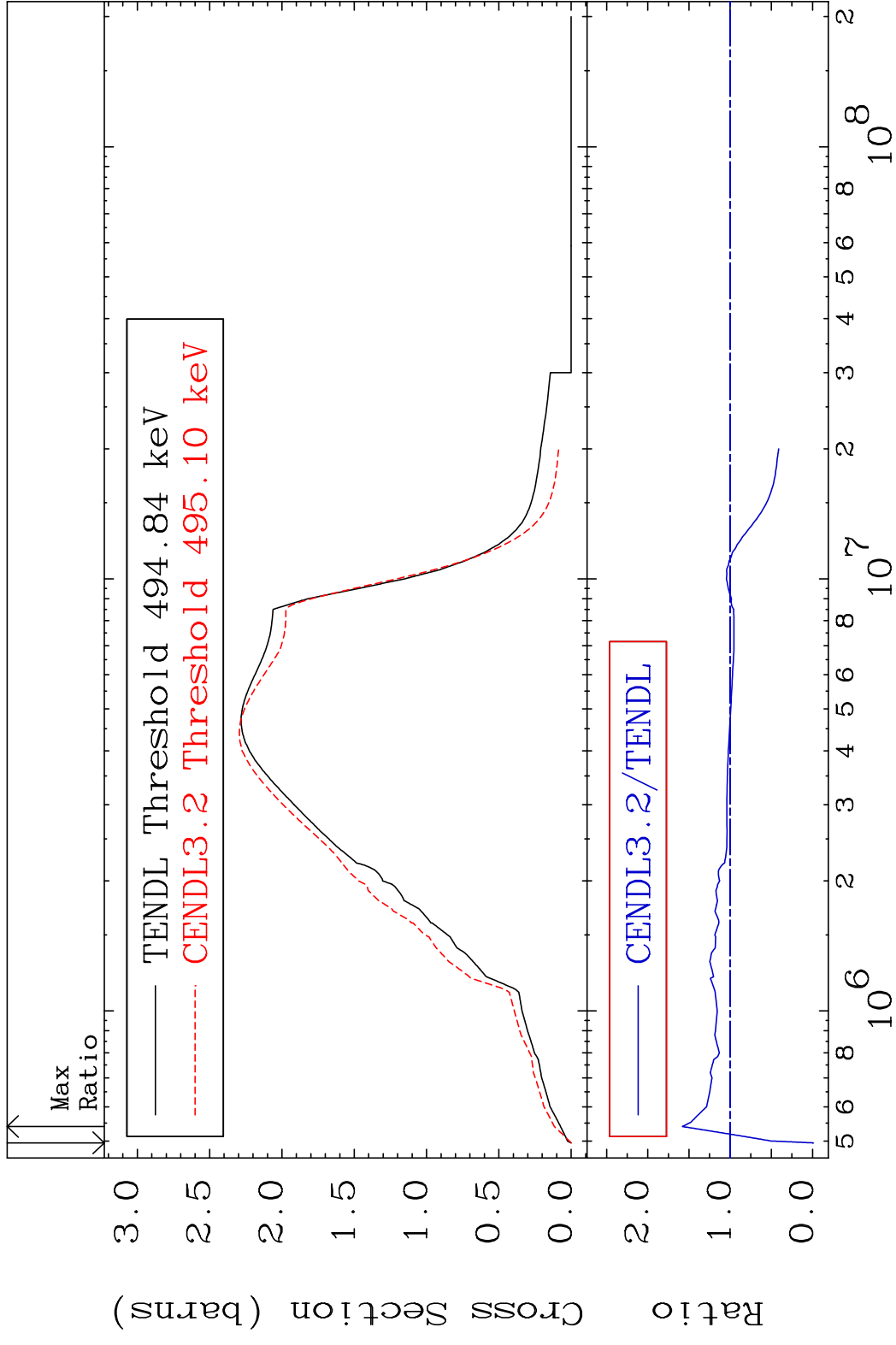


2

Incident Energy (eV)

51-Sb-127

MAT 5143 Inelastic 51-Sb-127
 Cross Section -100.0 To 58.03 %

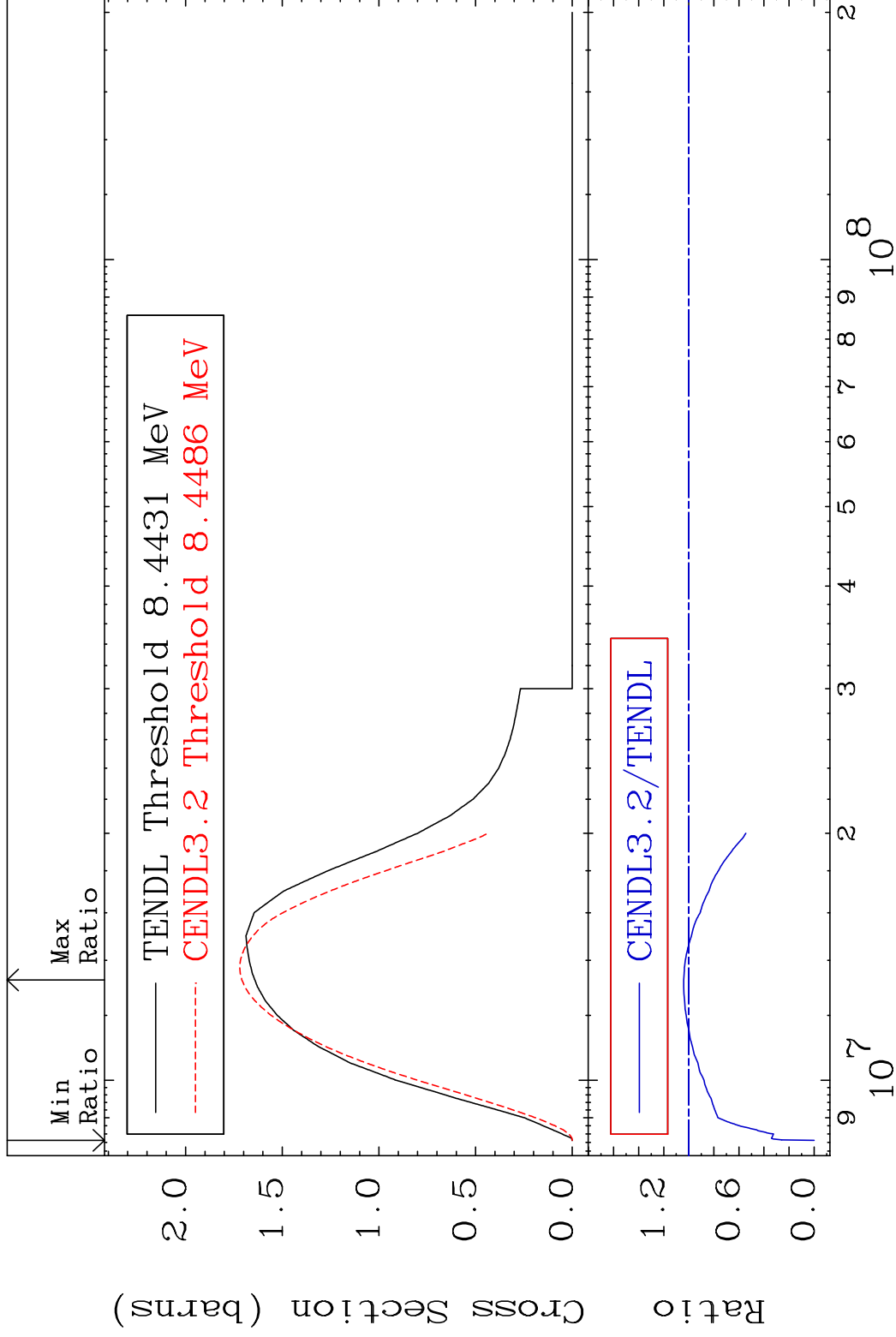


MAT 5143

(n,2n)

51-Sb-127

Cross Section -100.0 To 4.089 %



4

Incident Energy (eV)

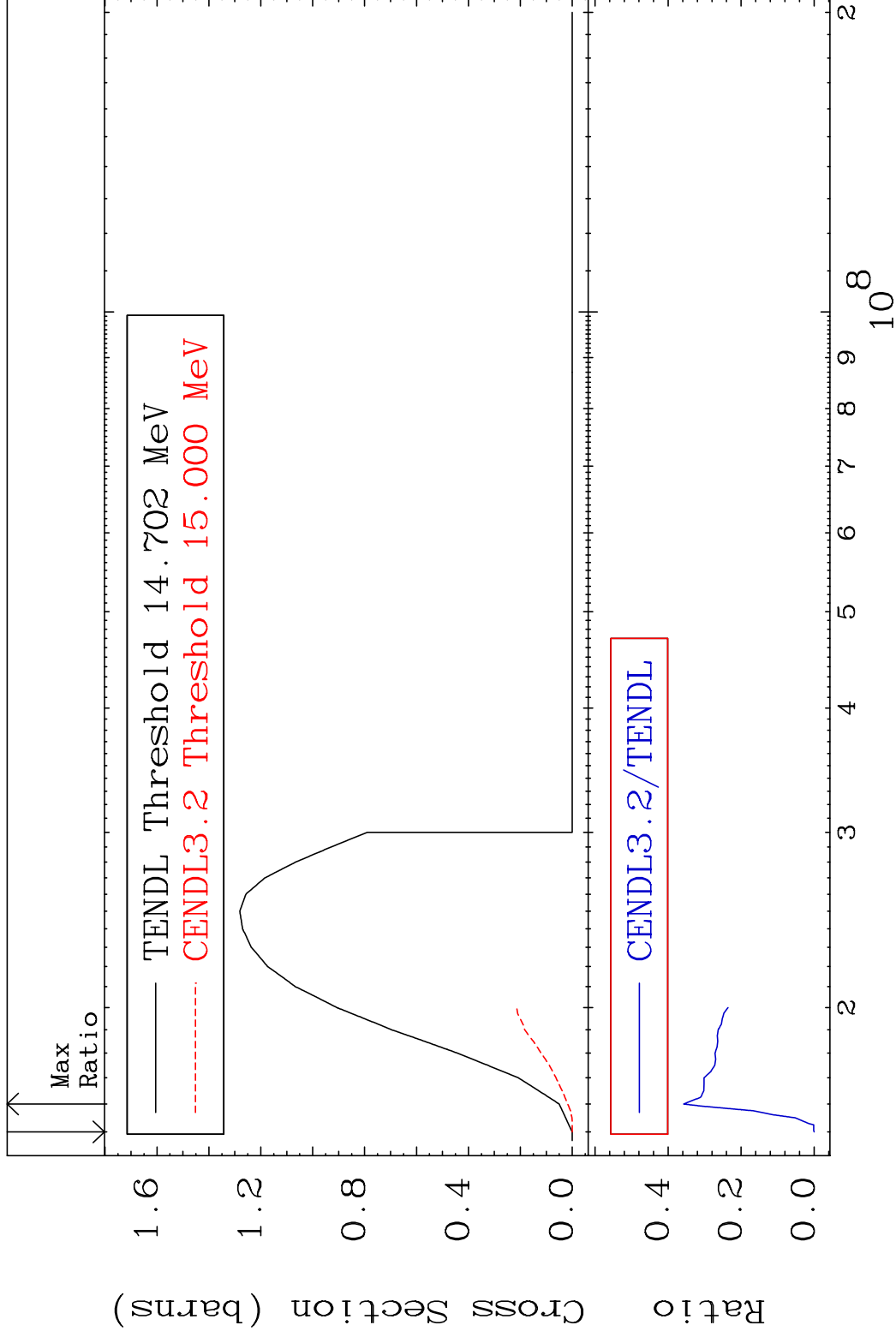
51-Sb-127

MAT 5143

(n,3n)

51-Sb-127

Cross Section -100.0 To -64.26%



5

Incident Energy (eV)

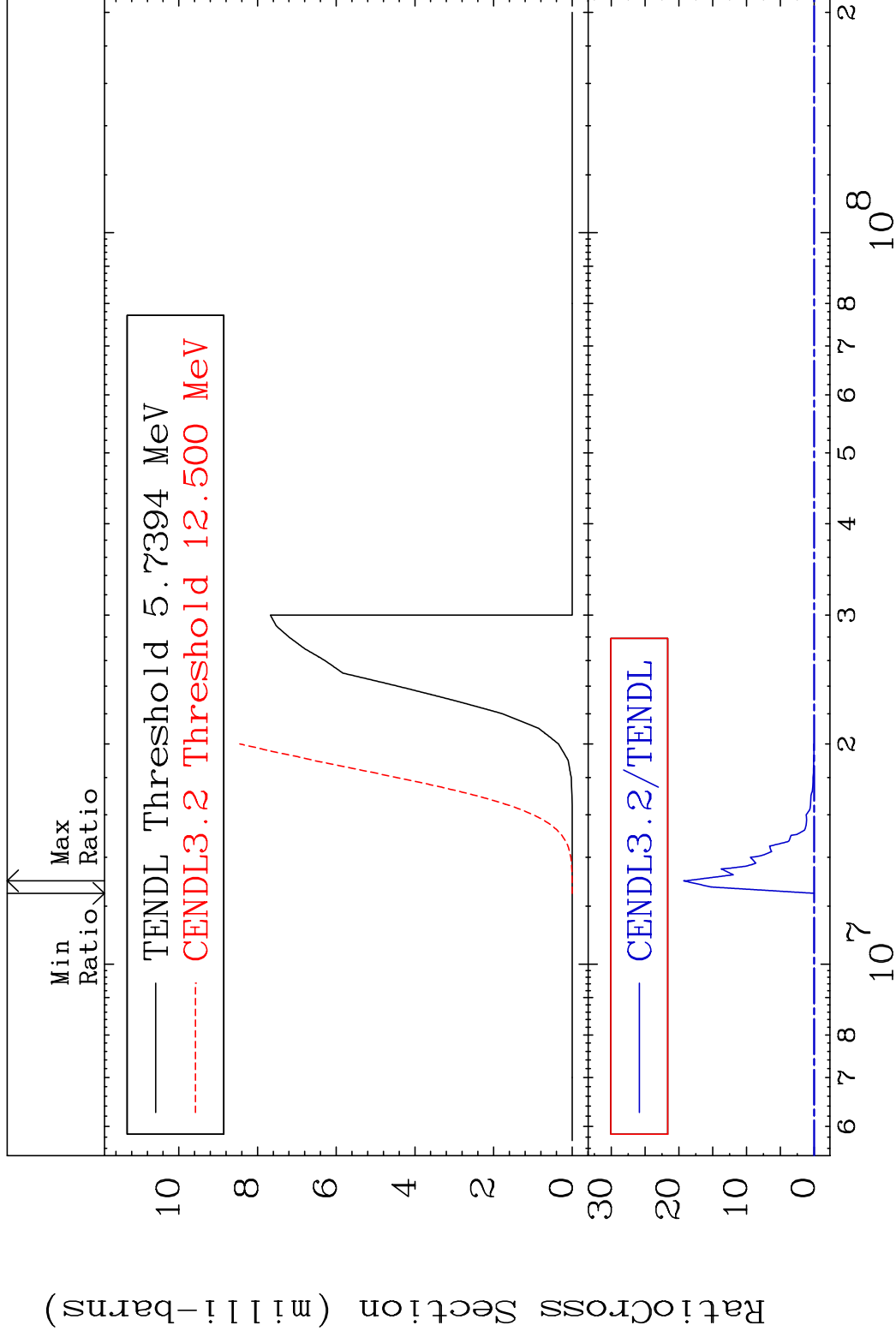
51-Sb-127

MAT 5143

(n, n') α

51-Sb-127

Cross Section -100.0 To 9999. %



6

Incident Energy (eV)

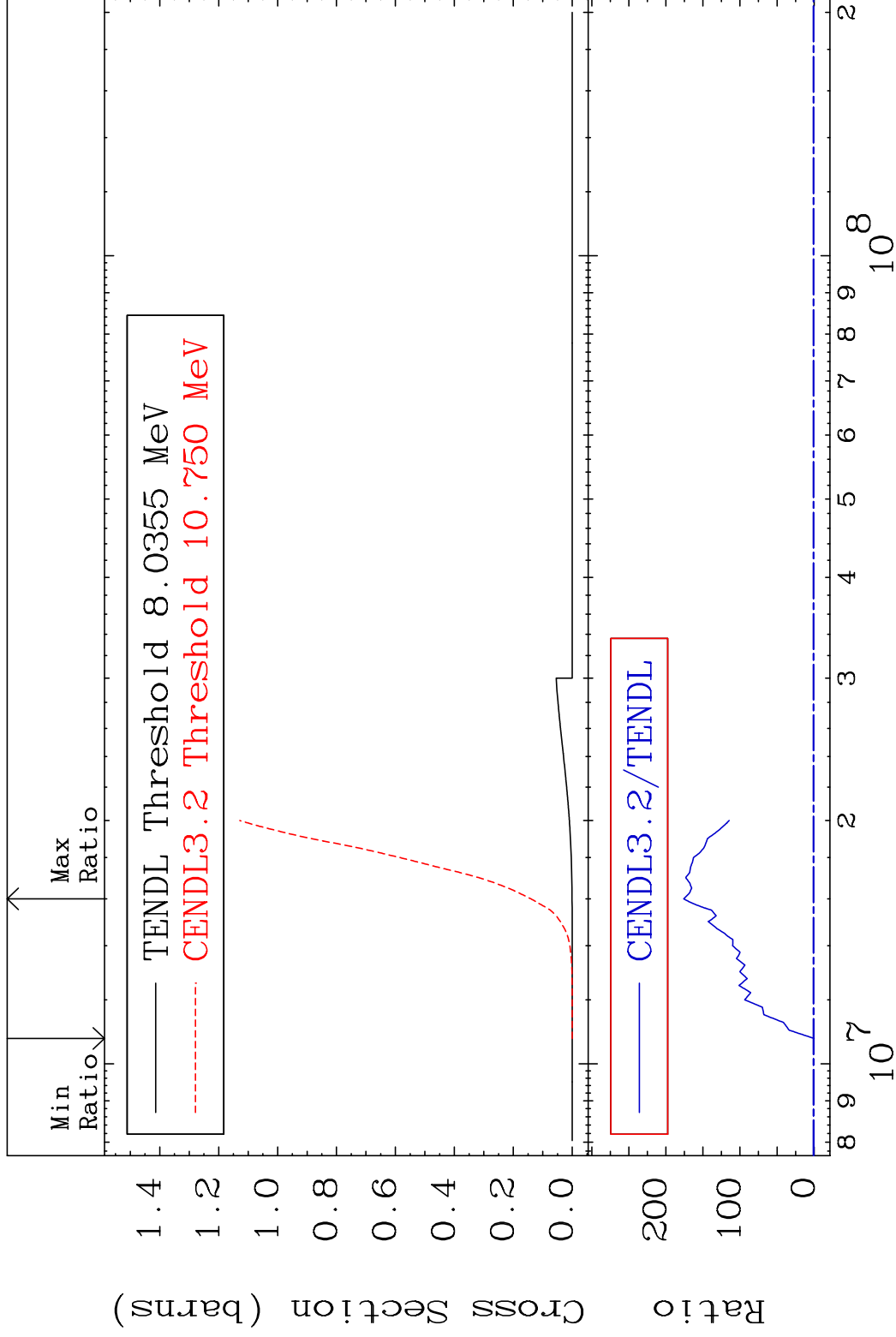
51-Sb-127

MAT 5143

(n, n') p

51-Sb-127

Cross Section -100.0 To 9999. %

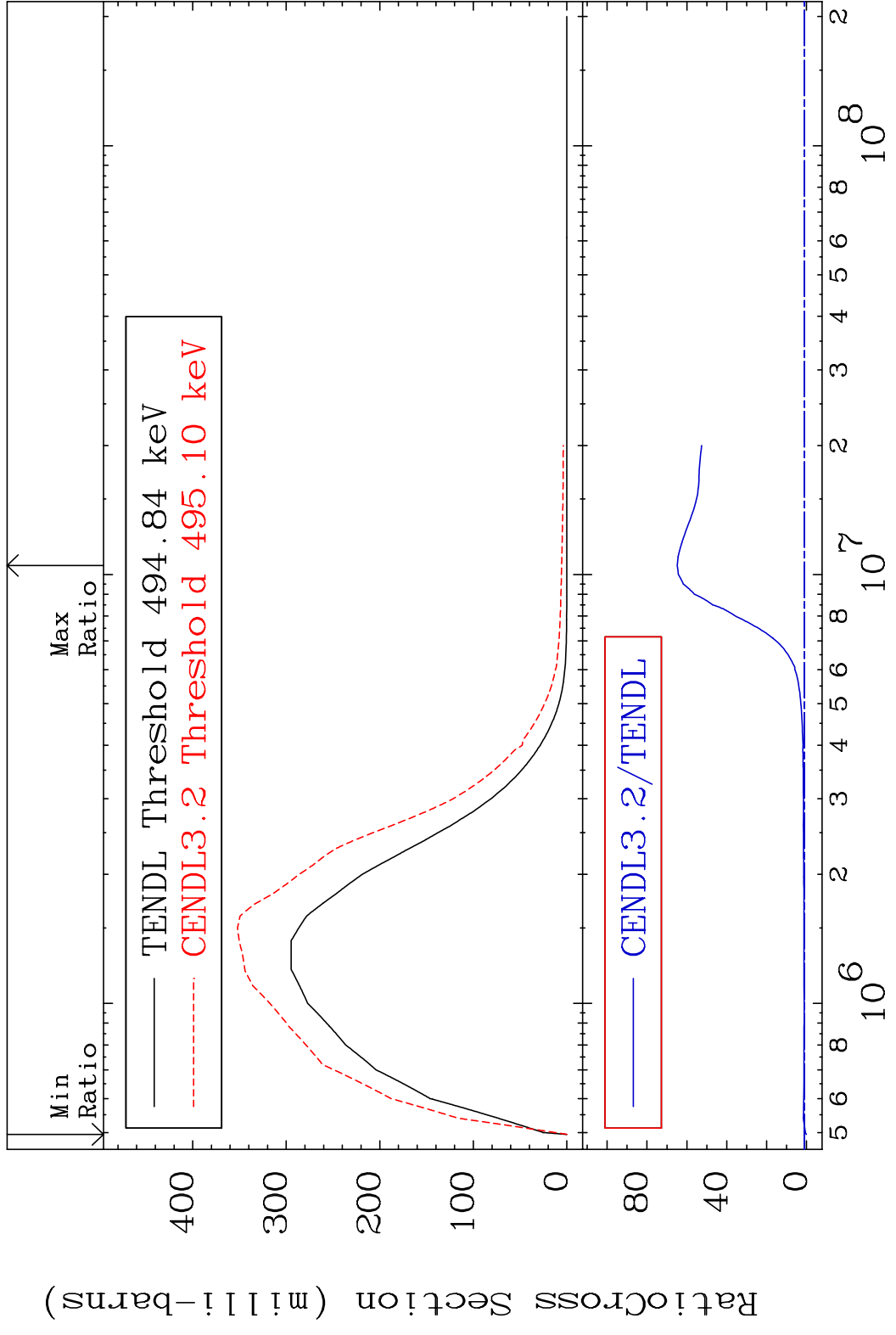


7

Incident Energy (eV)

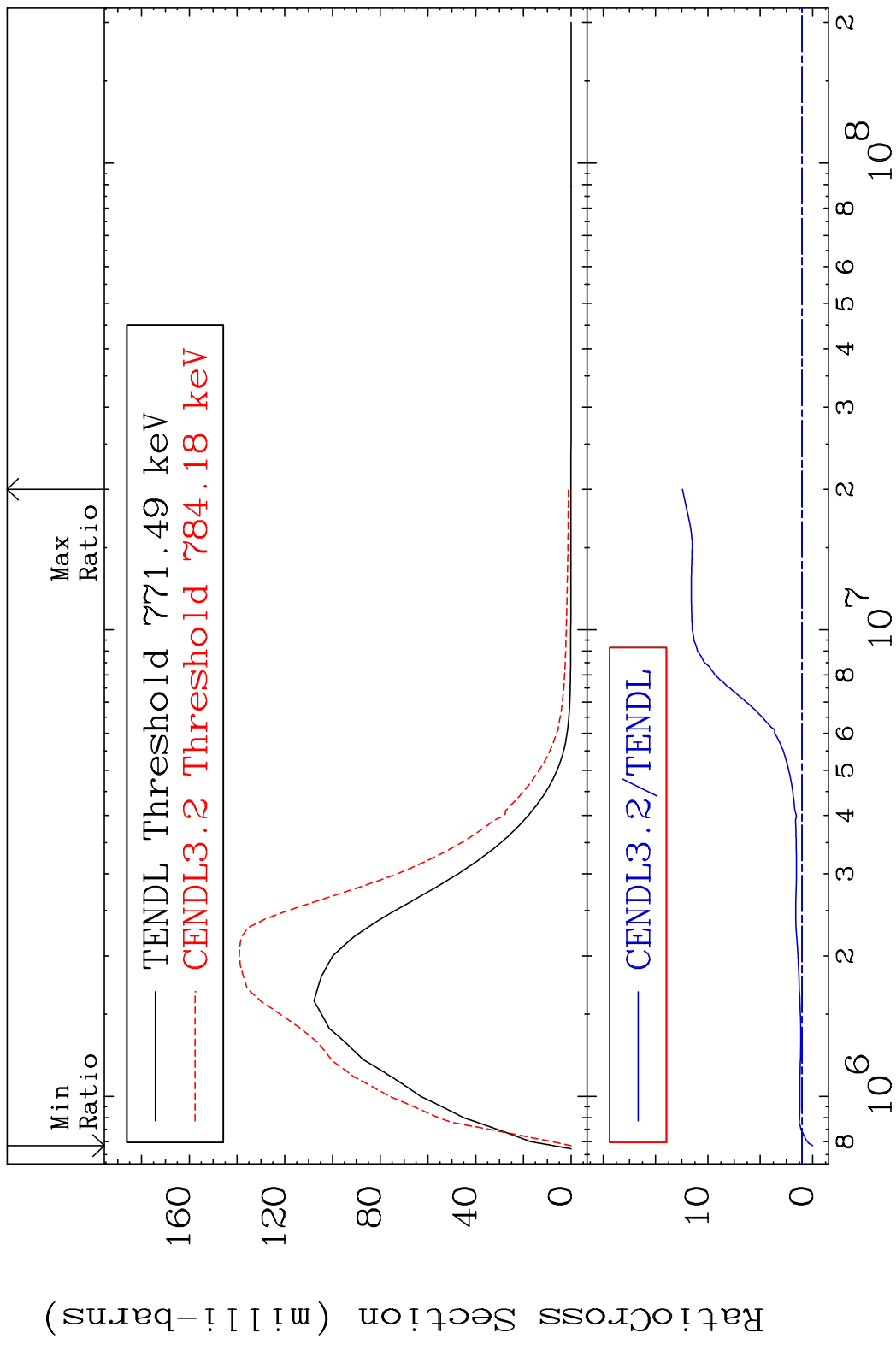
51-Sb-127

MAT 5143 MT= 51 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 6385. %



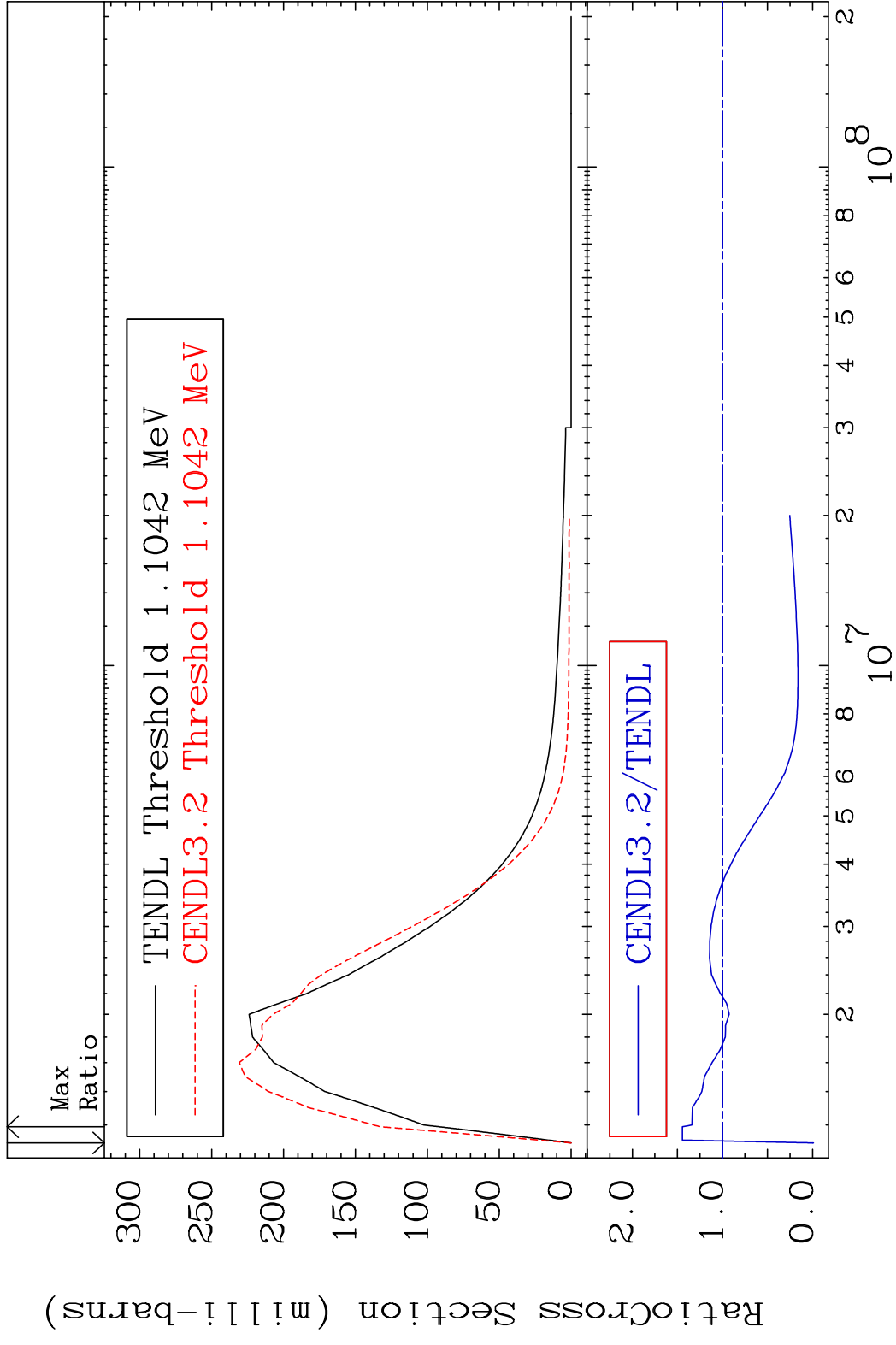
8 Incident Energy (eV) 51-Sb-127

MAT 5143 MT= 52 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 1144. %



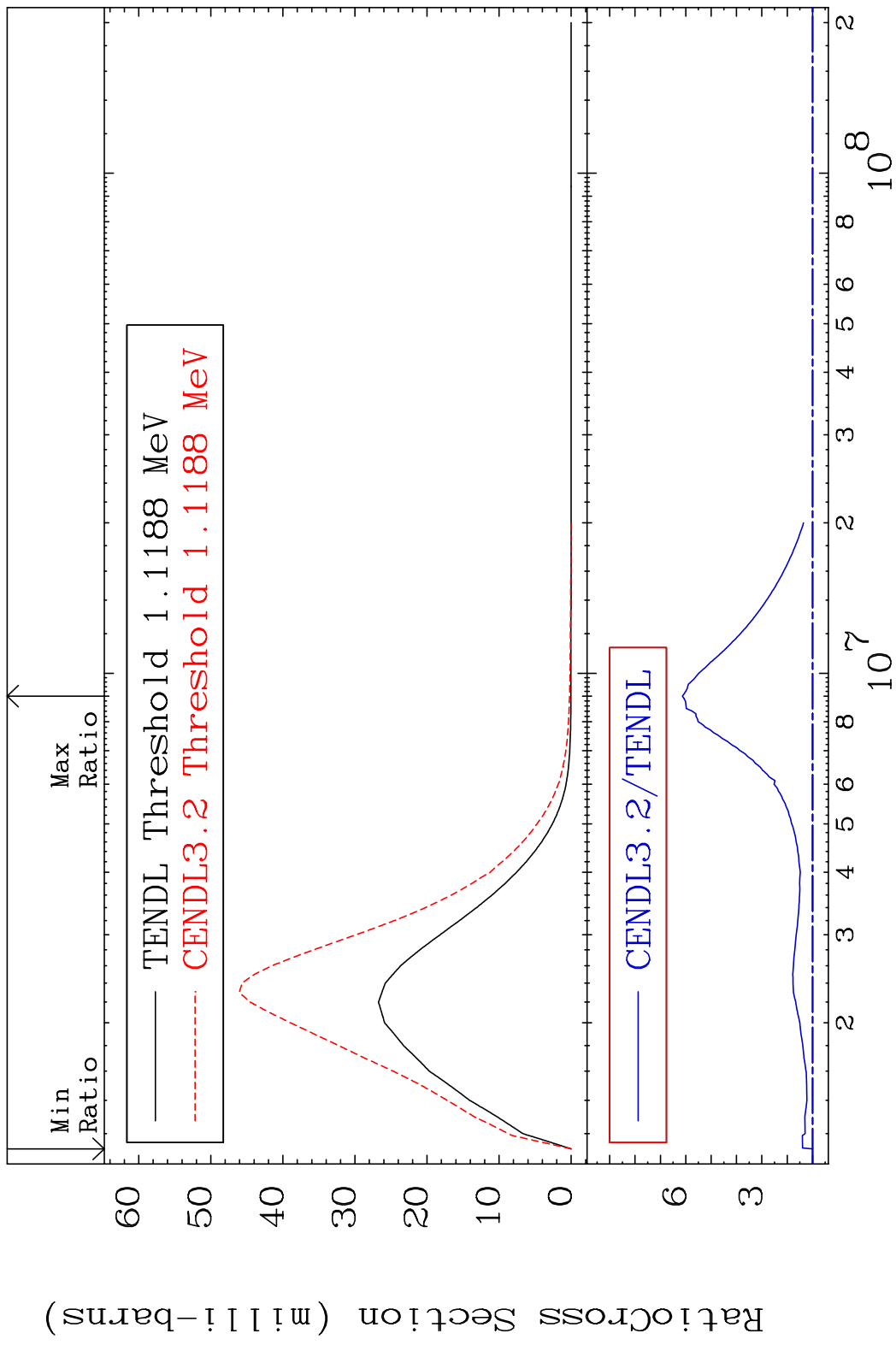
9 Incident Energy (eV) 51-Sb-127

MAT 5143 MT= 53 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 44.52 %

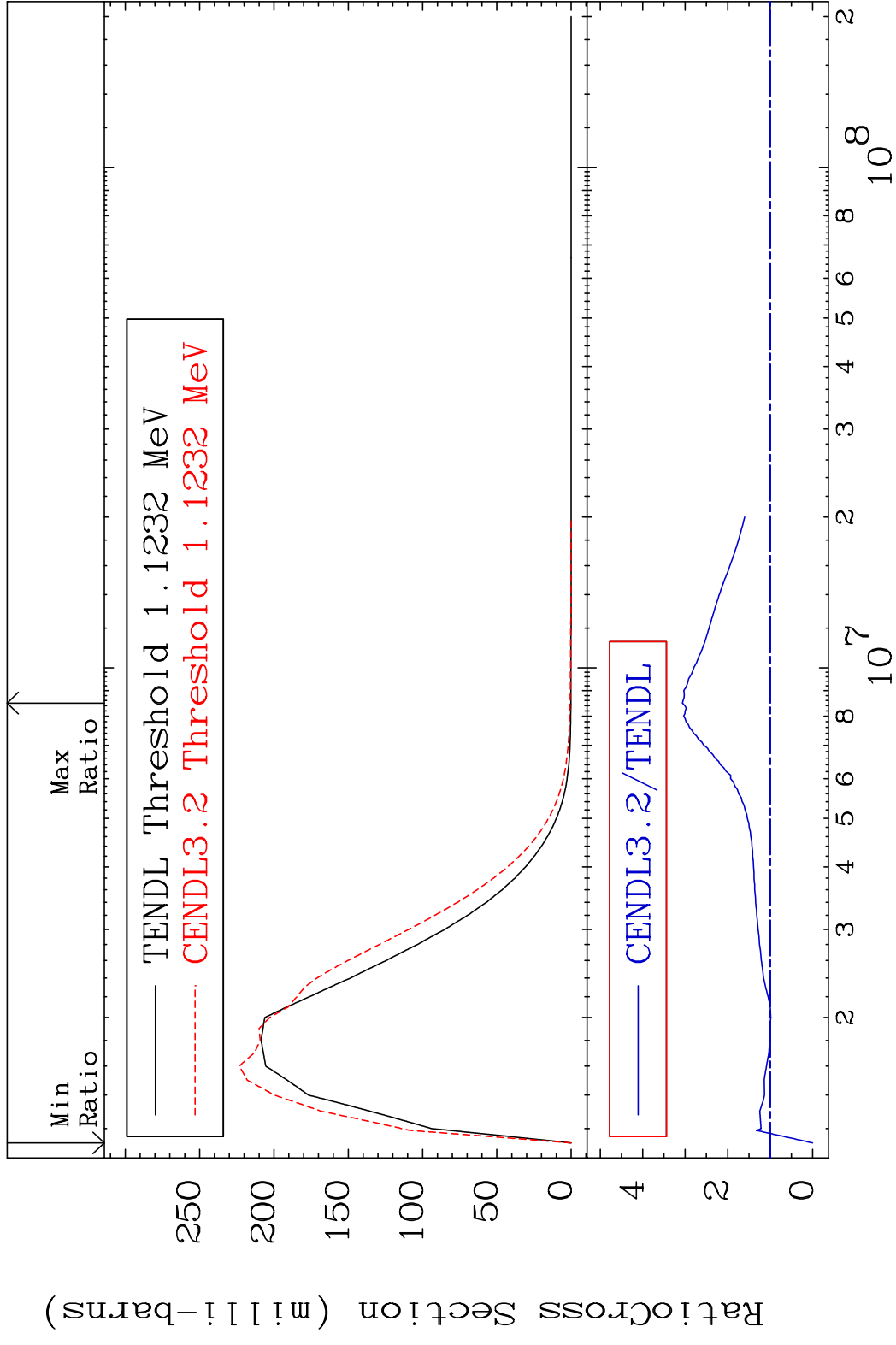


10 Incident Energy (eV) 51-Sb-127

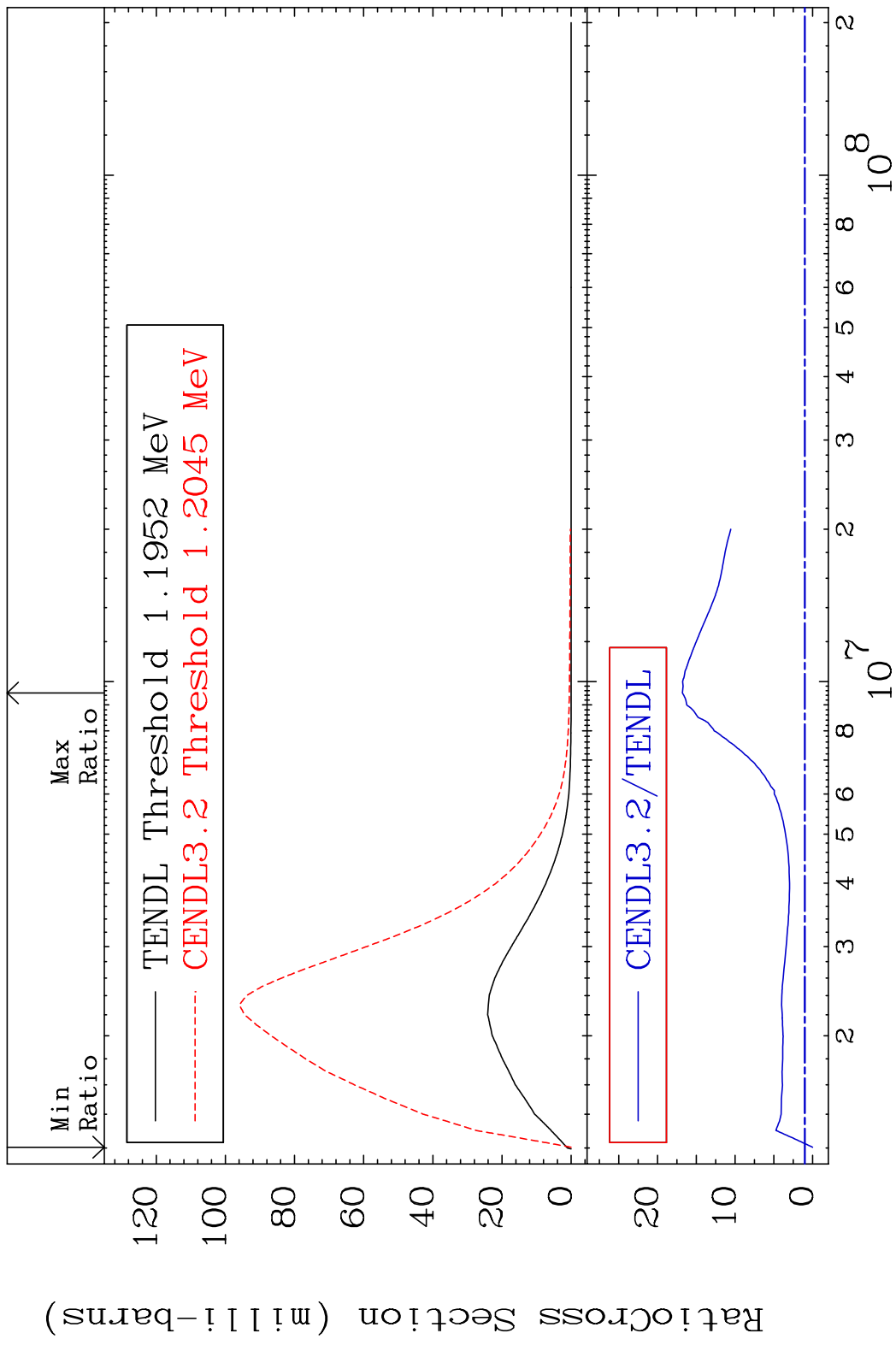
MAT 5143 MT= 54 (n, n') Level 51-Sb-127
 Cross Section 0.000 To 513.4 %



MAT 5143 MT= 55 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 206.7 %



MAT 5143 MT= 56 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 1580. %

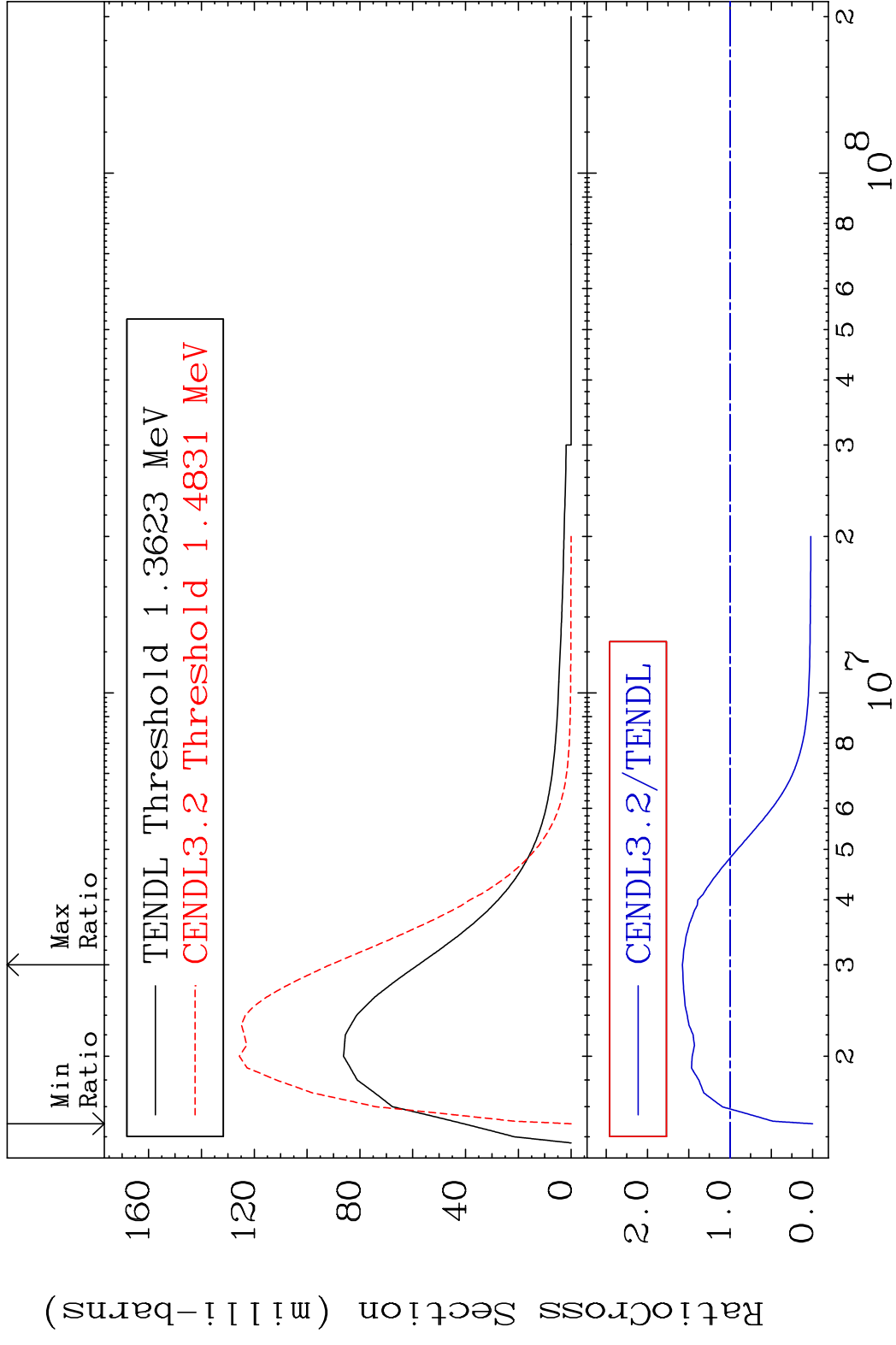


MAT 5143

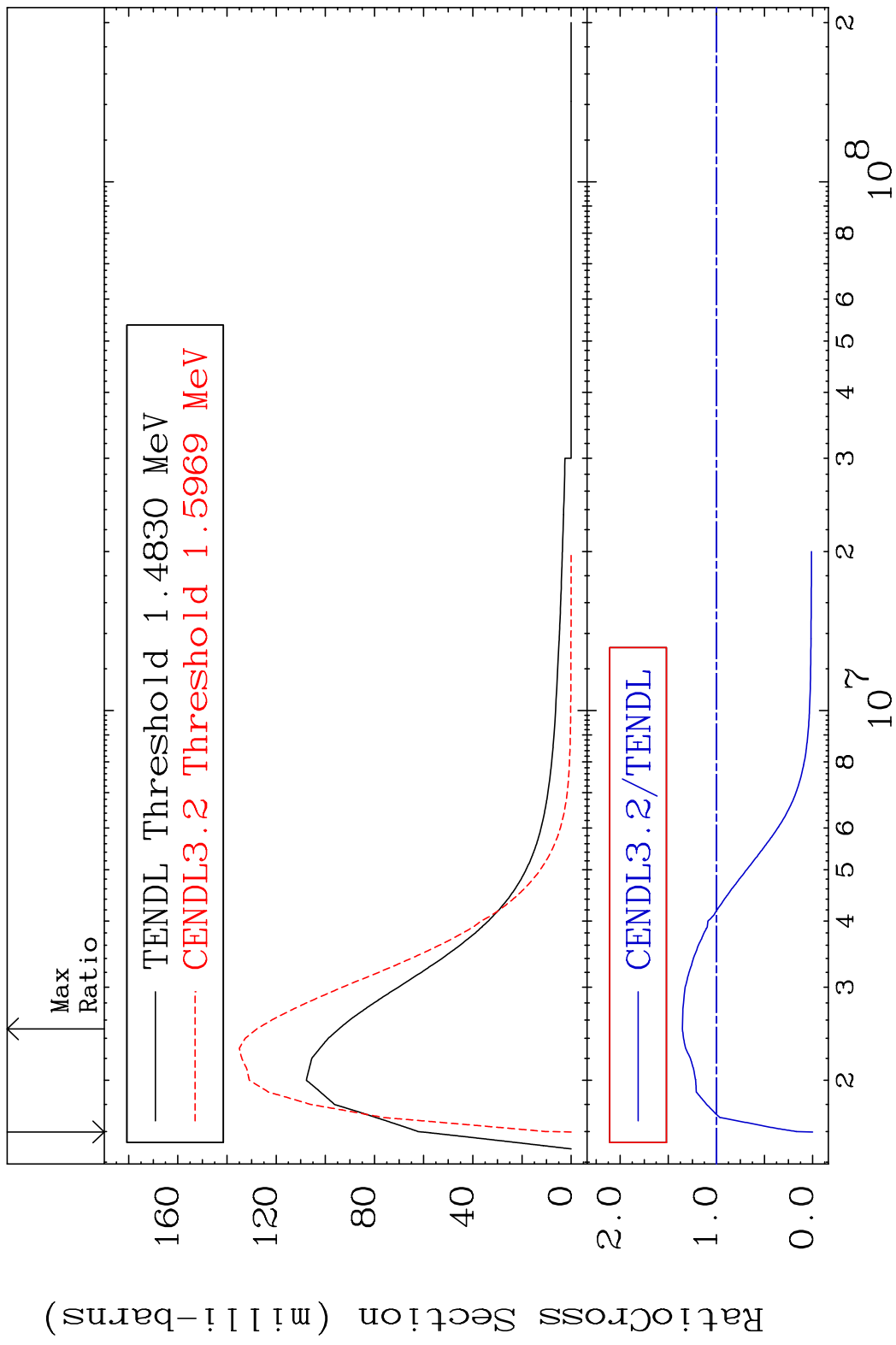
MT= 57 (n, n') Level

51-Sb-127

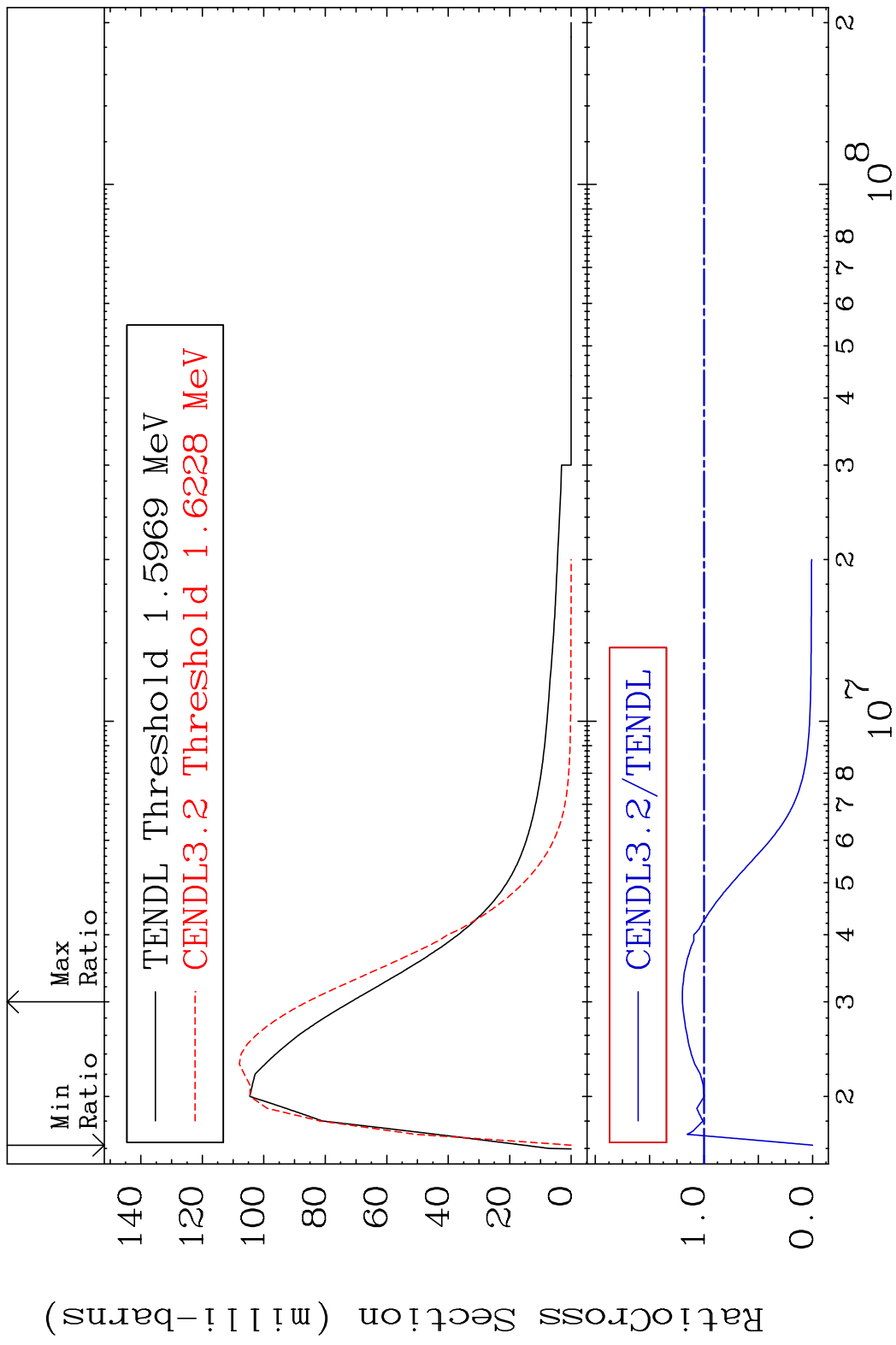
Cross Section -100.0 To 57.71 %



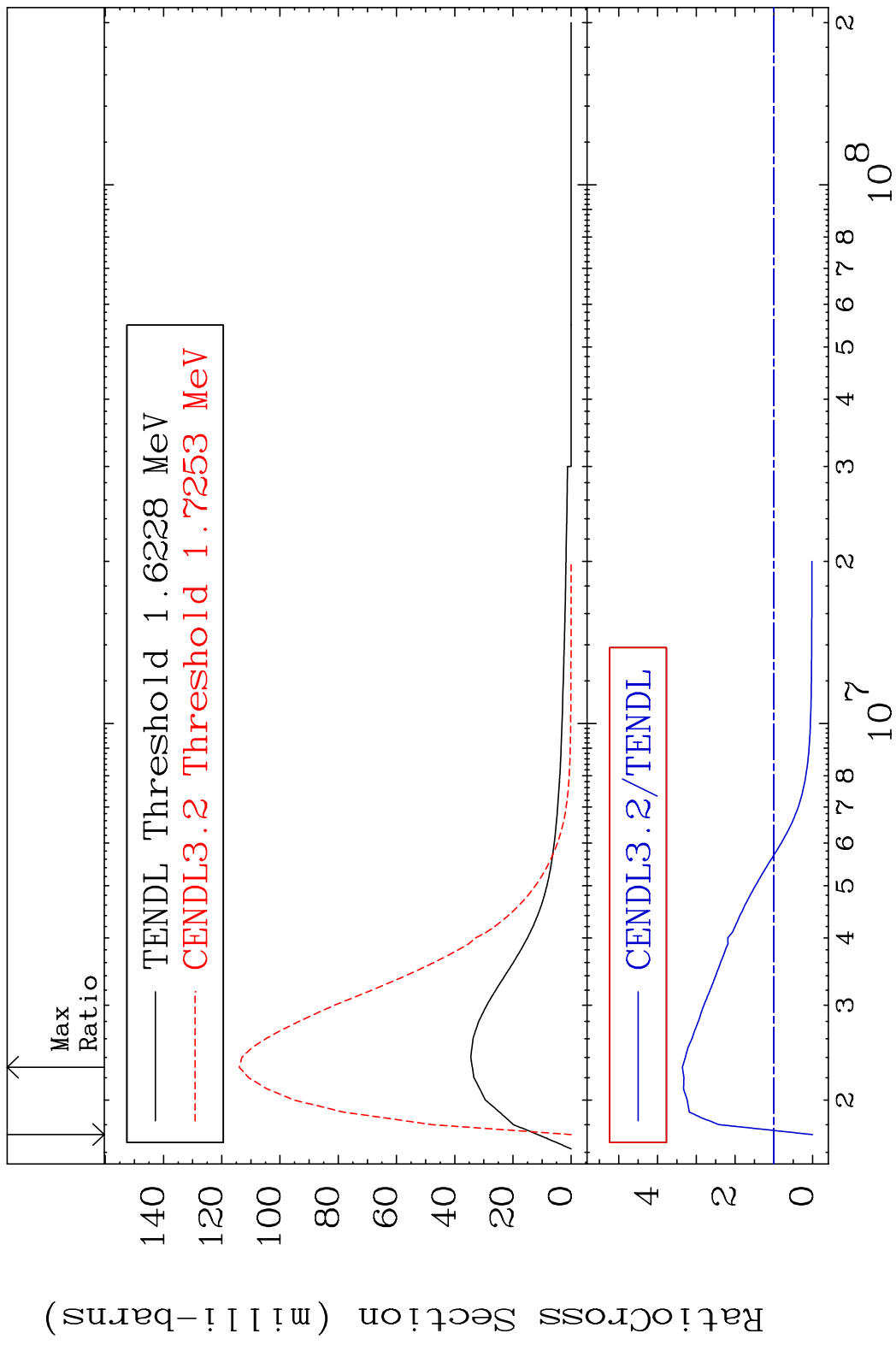
MAT 5143 MT= 58 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 35.37 %



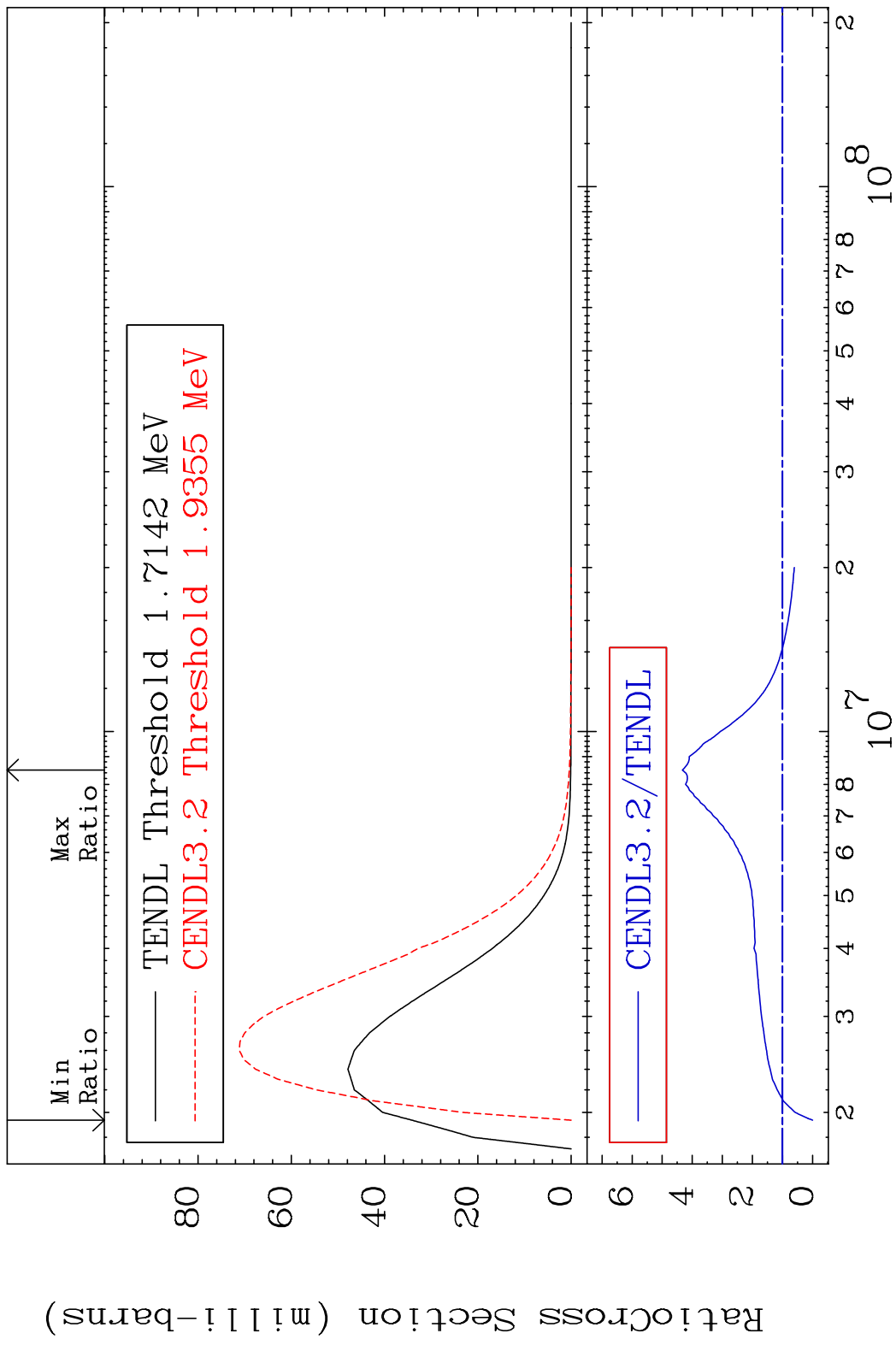
MAT 5143 MT= 59 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 19.89 %



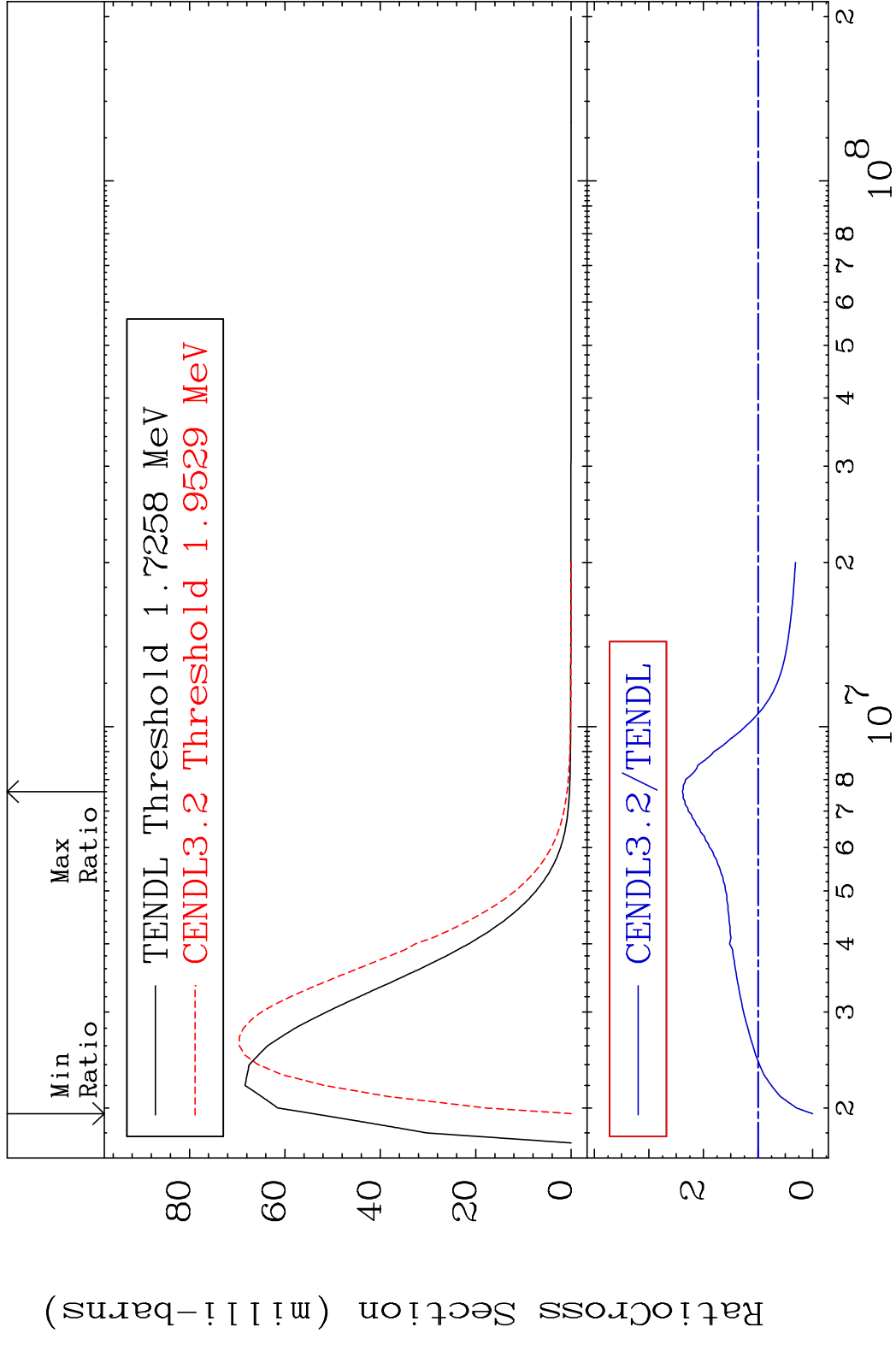
MAT 5143 MT= 60 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 235.7 %



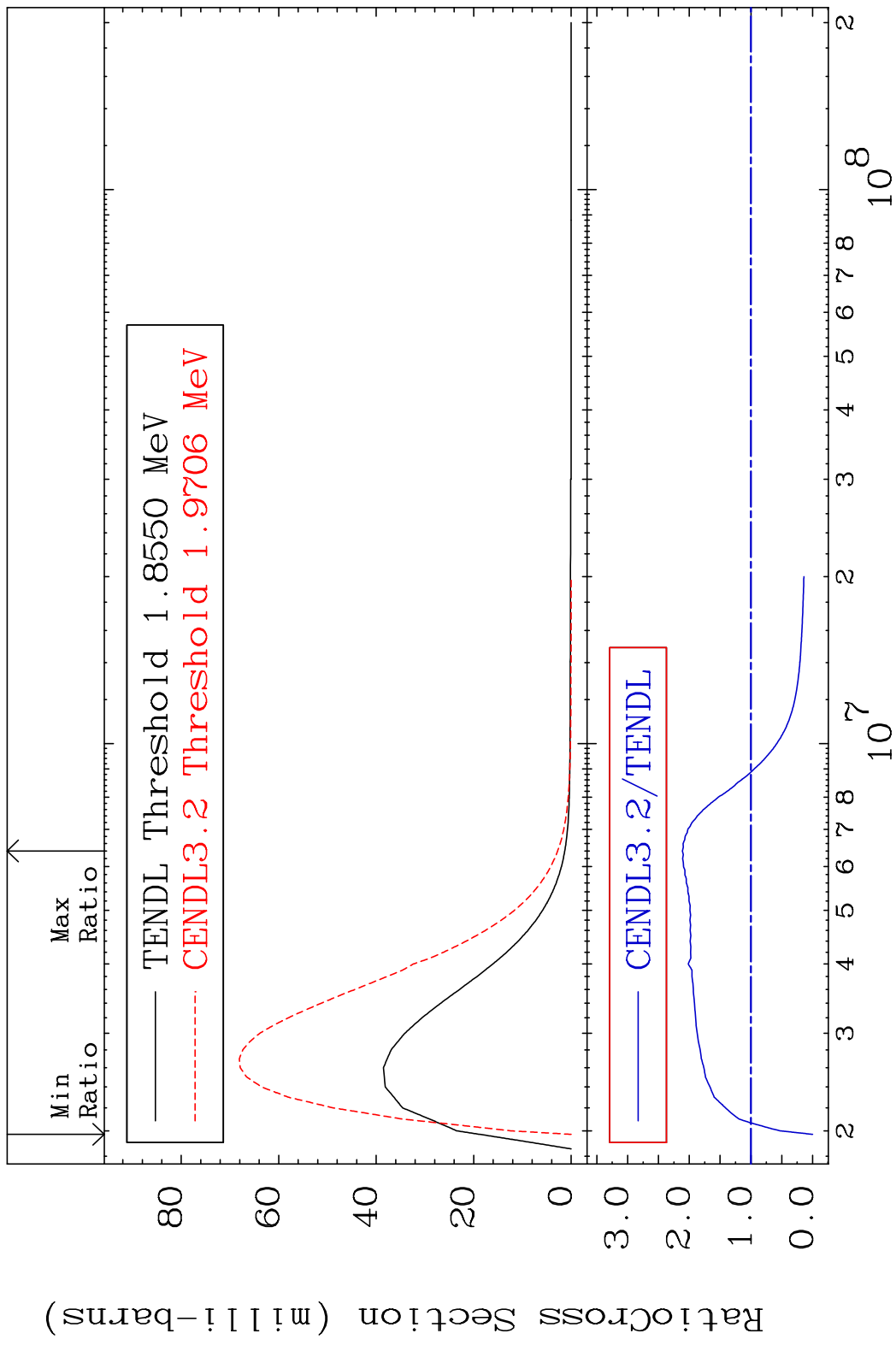
MAT 5143 MT= 61 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 333.0 %



MAT 5143 MT= 62 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 138.7 %

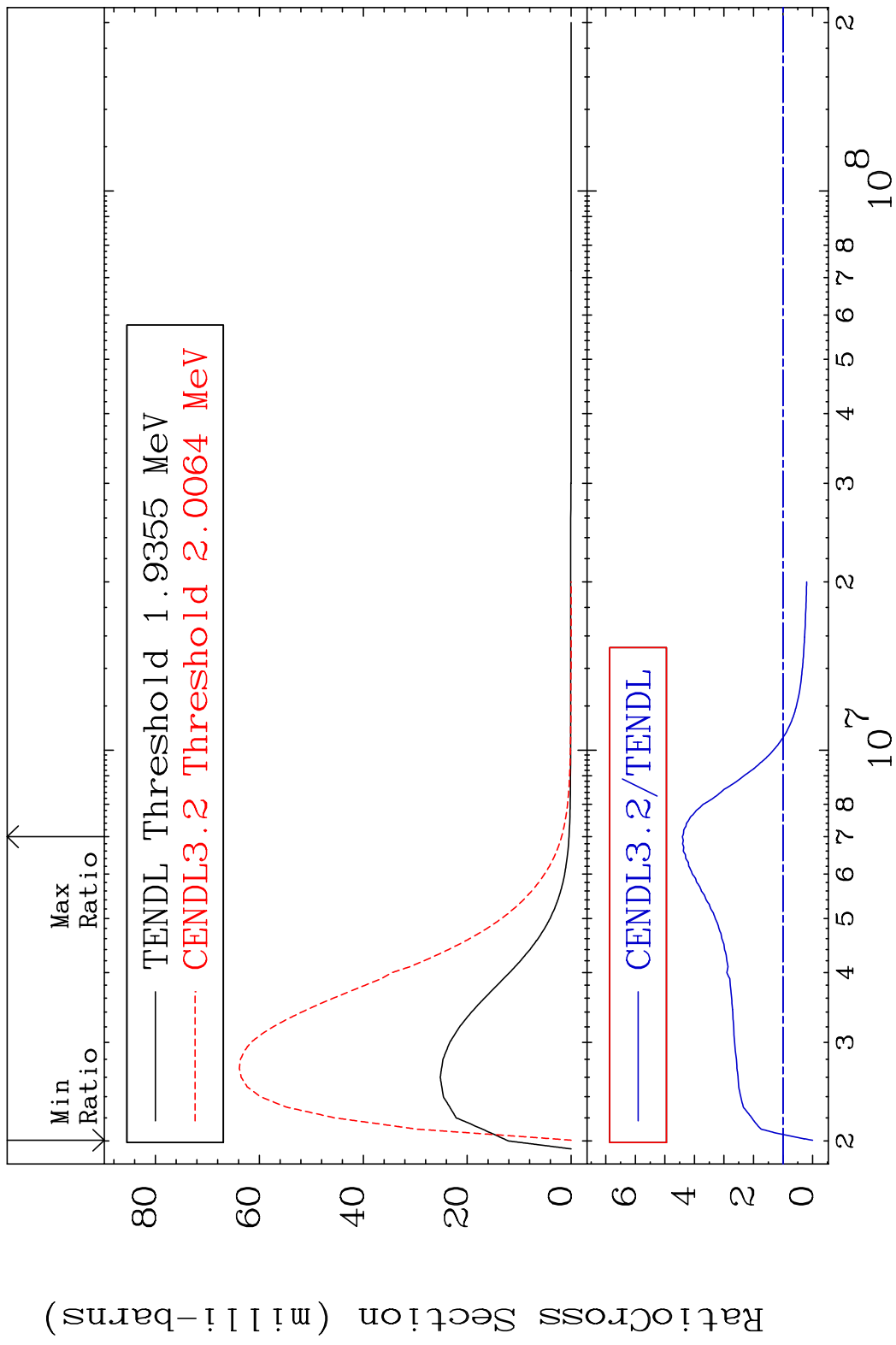


MAT 5143 MT= 63 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 111.2 %



20 Incident Energy (eV) 51-Sb-127

MAT 5143 MT= 64 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 340.9 %

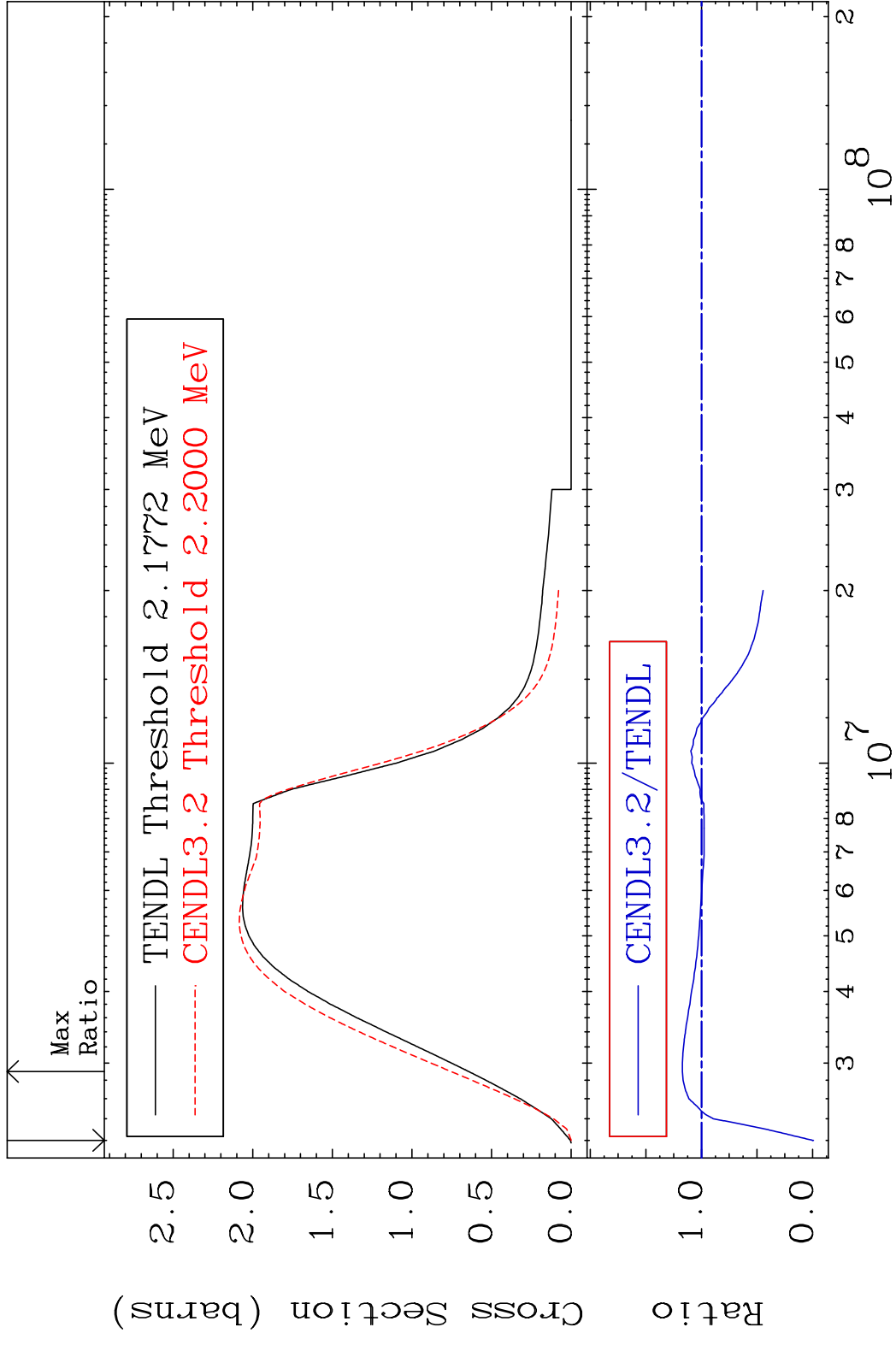


MAT 5143

(n, n') Continuum

51-Sb-127

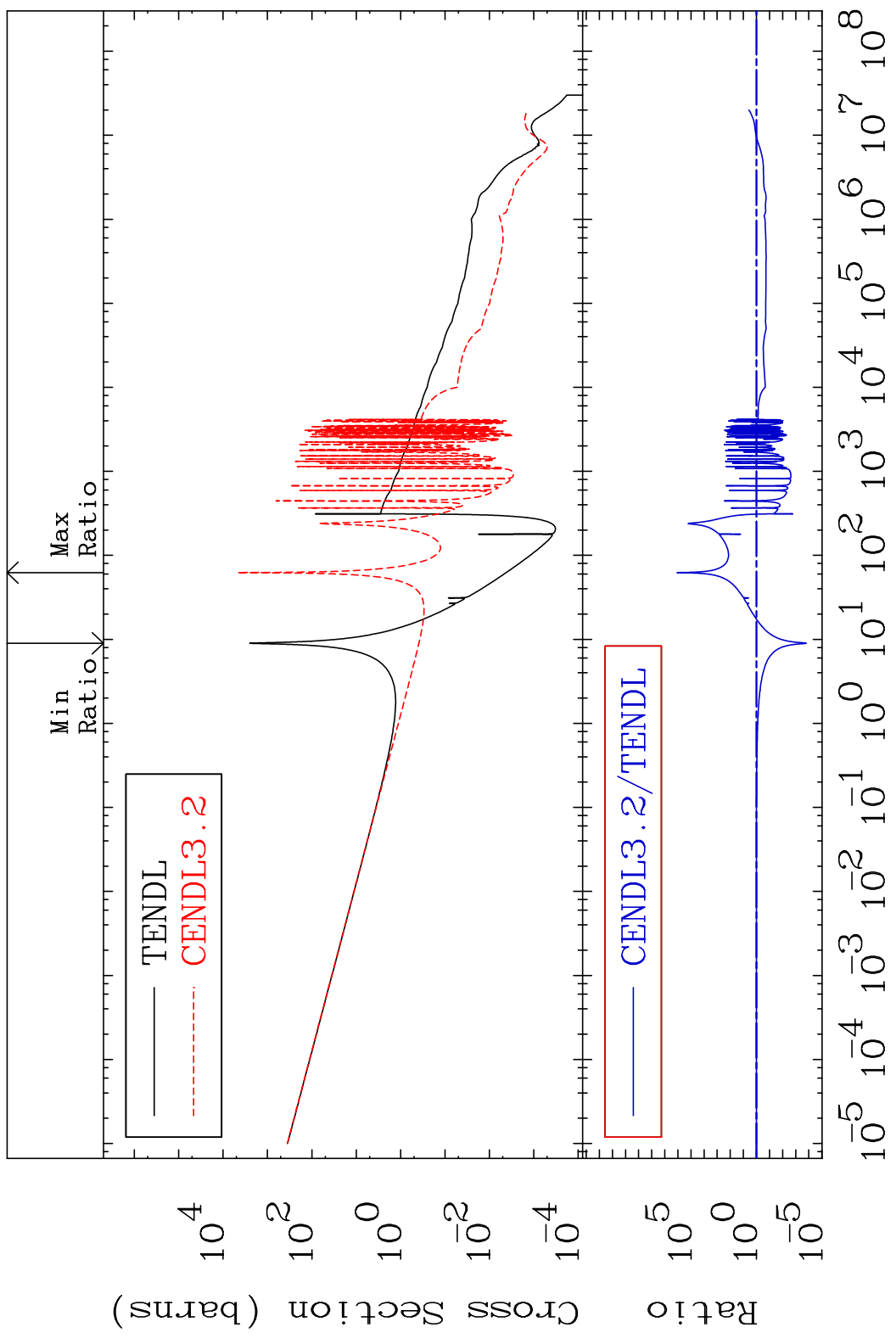
Cross Section -100.0 To 17.20 %



MAT 5143

(n, γ)
Cross Section -99.98 To 9999. %

51-Sb-127

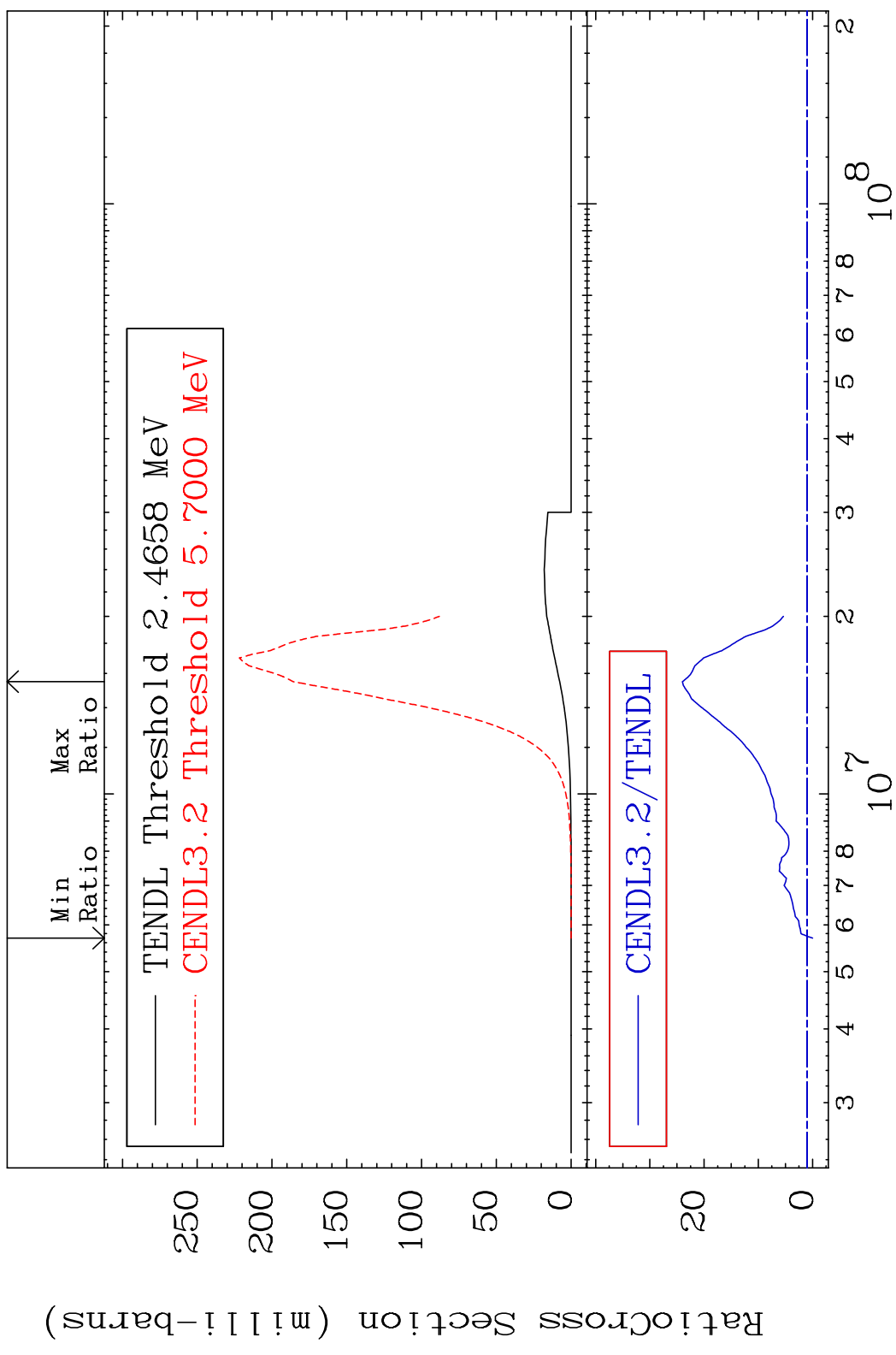


MAT 5143

(n,p)

51-Sb-127

Cross Section -100.0 To 2301. %

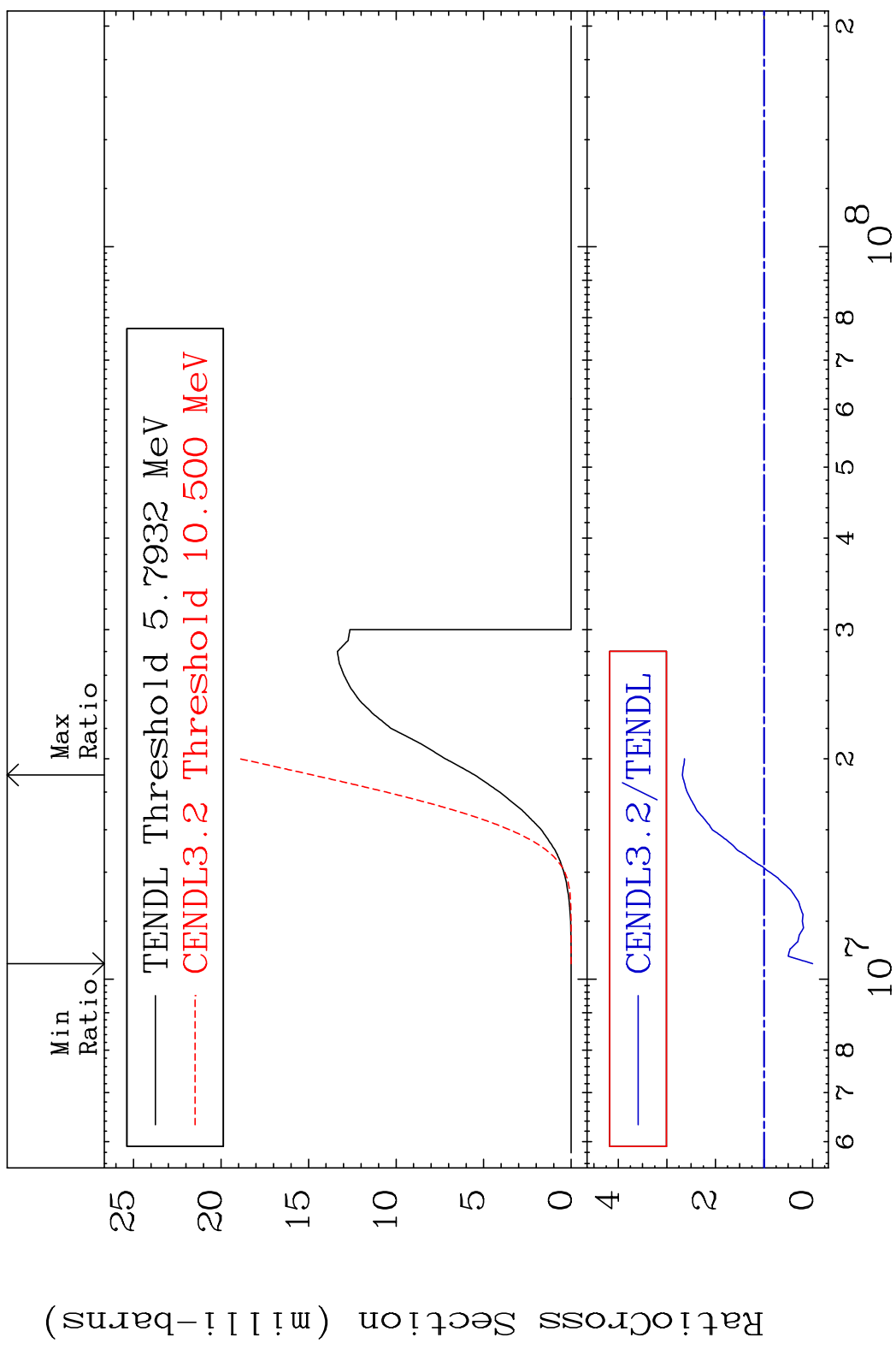


MAT 5143

(n, d)

51-Sb-127

Cross Section -100.0 To 168.1 %



25

Incident Energy (eV)

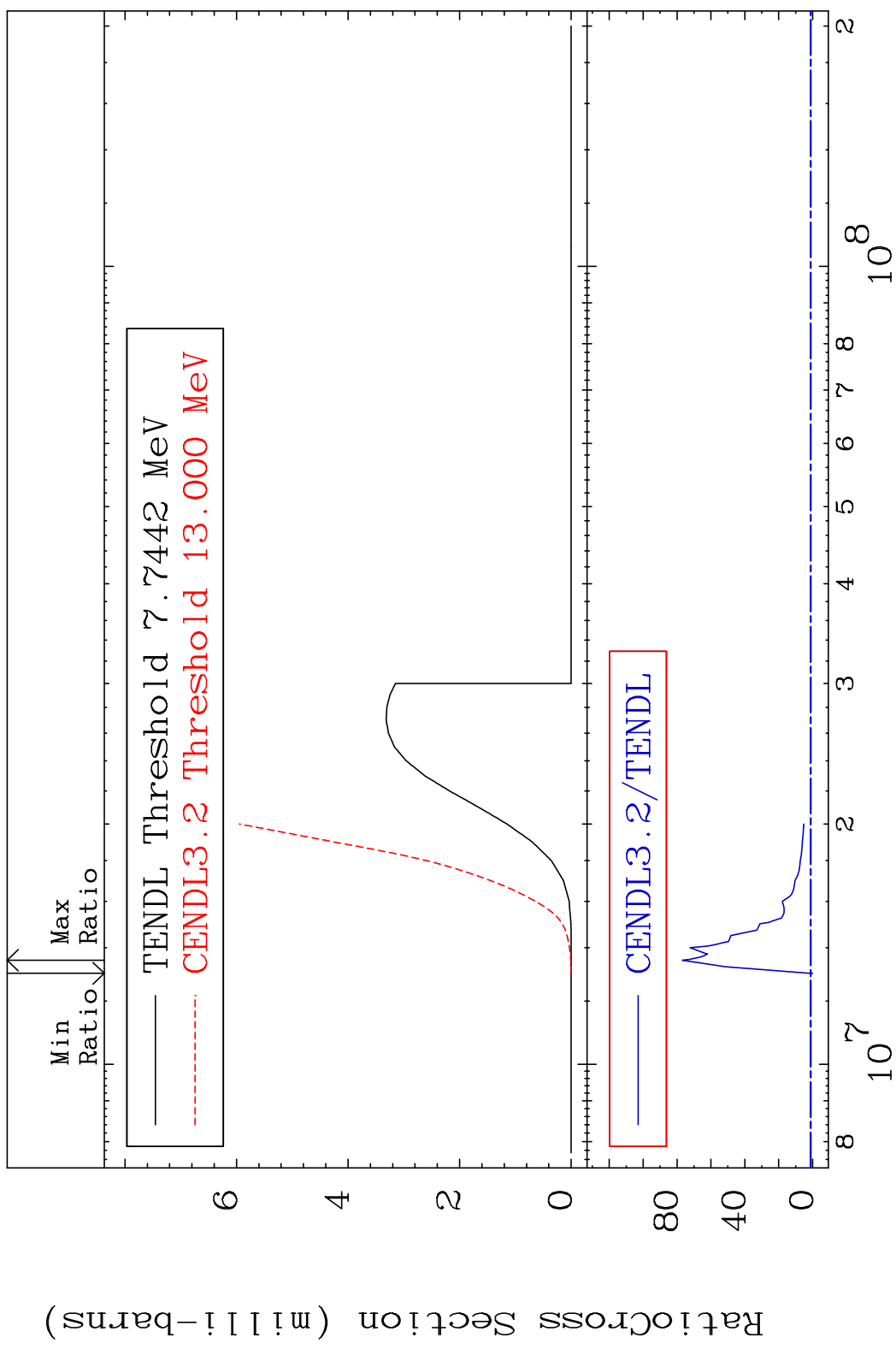
51-Sb-127

MAT 5143

(n, t)

51-Sb-127

Cross Section -100.0 To 7586. %

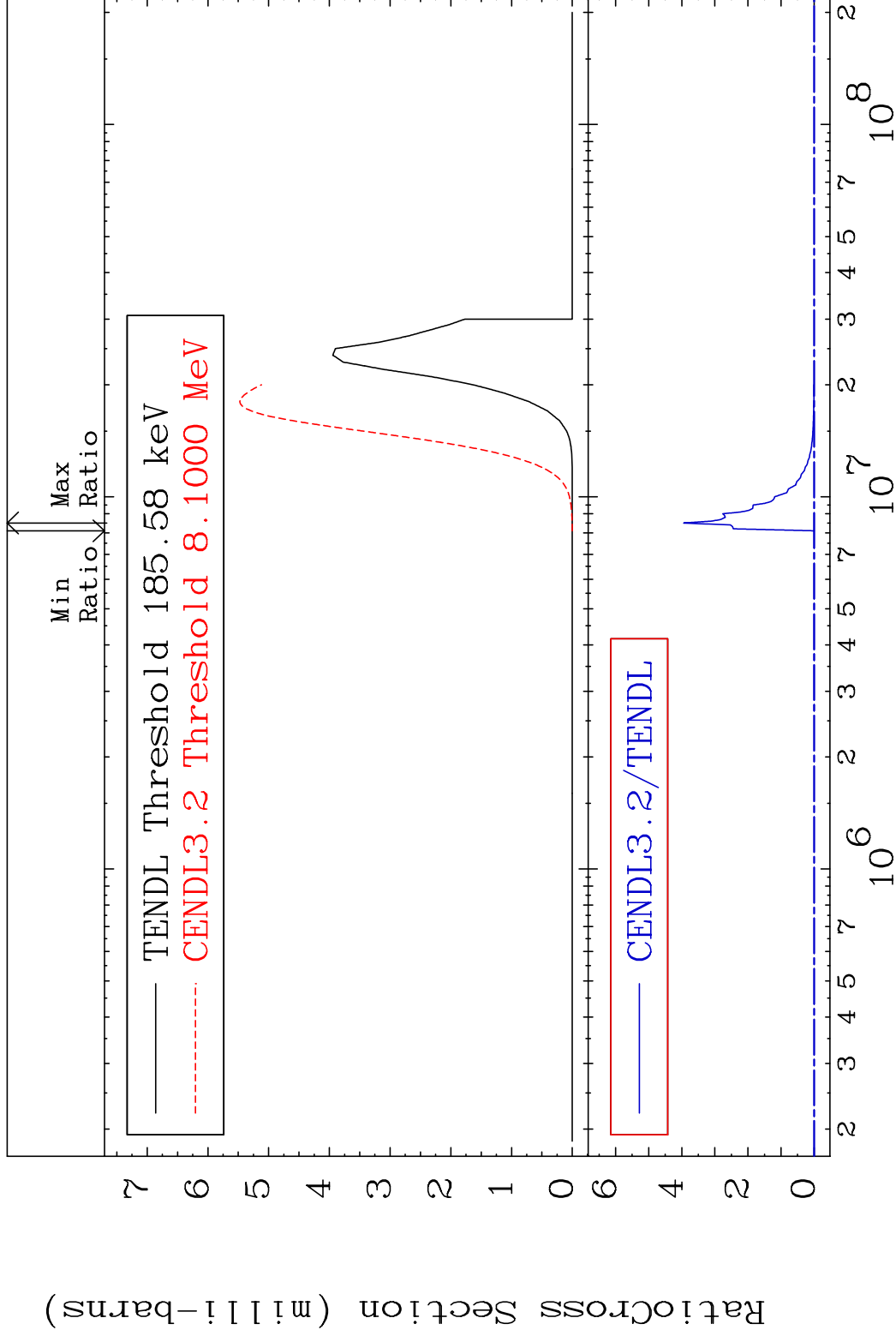


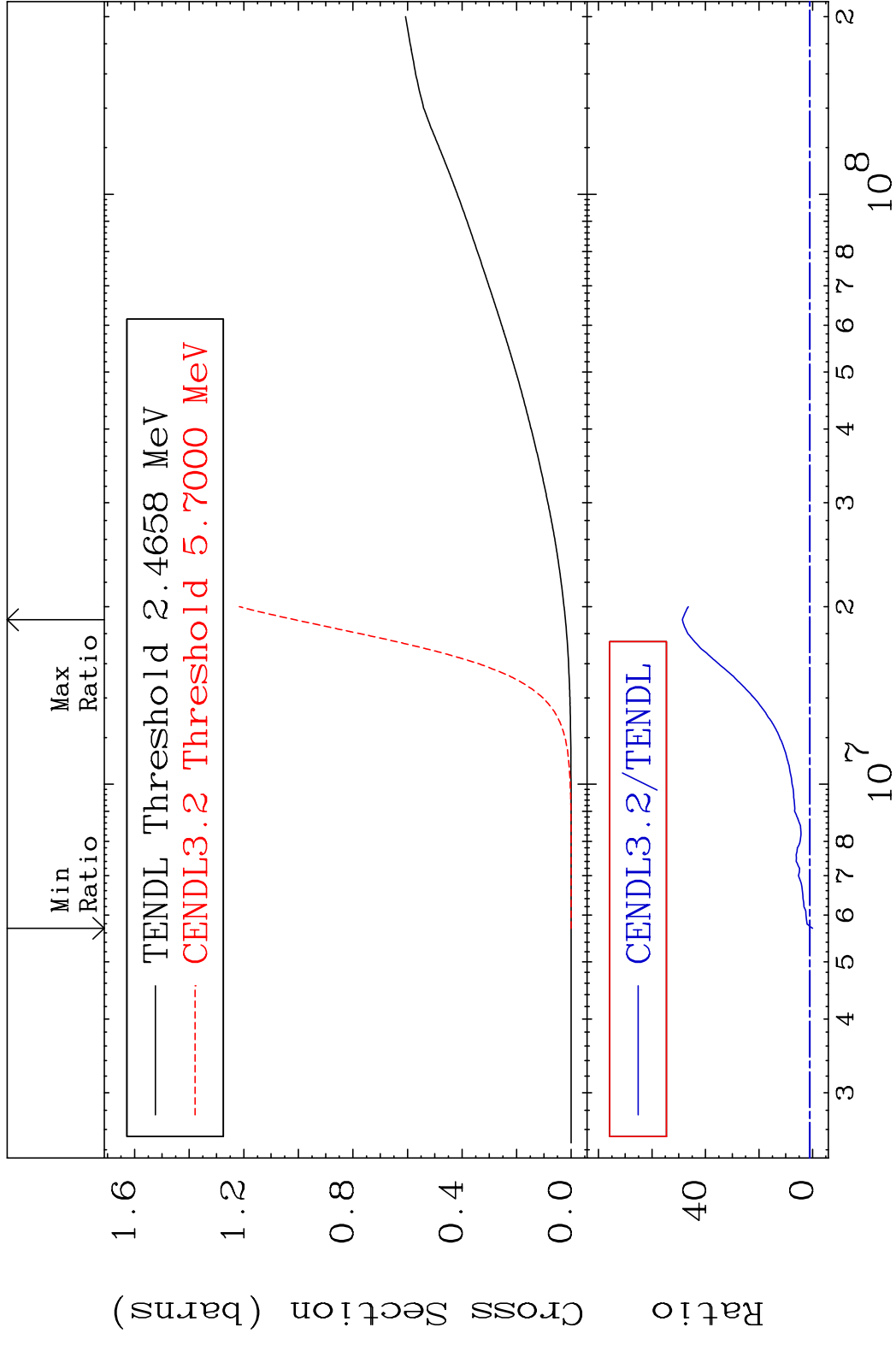
MAT 5143

(n, α)

51-Sb-127

Cross Section -100.0 To 9999. %

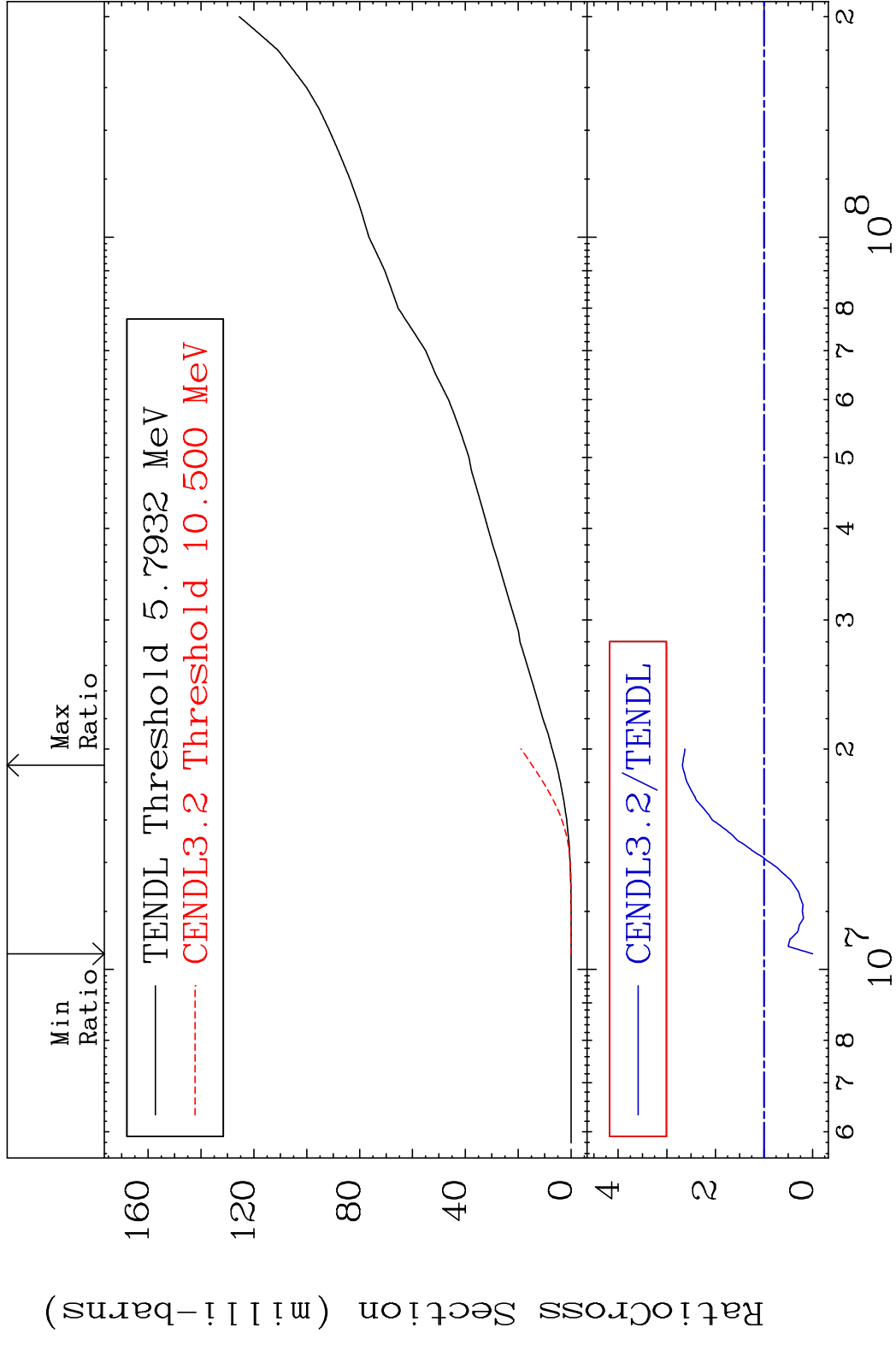




MAT 5143

Deuterium Production 51-Sb-127

Cross Section -100.0 To 167.9 %



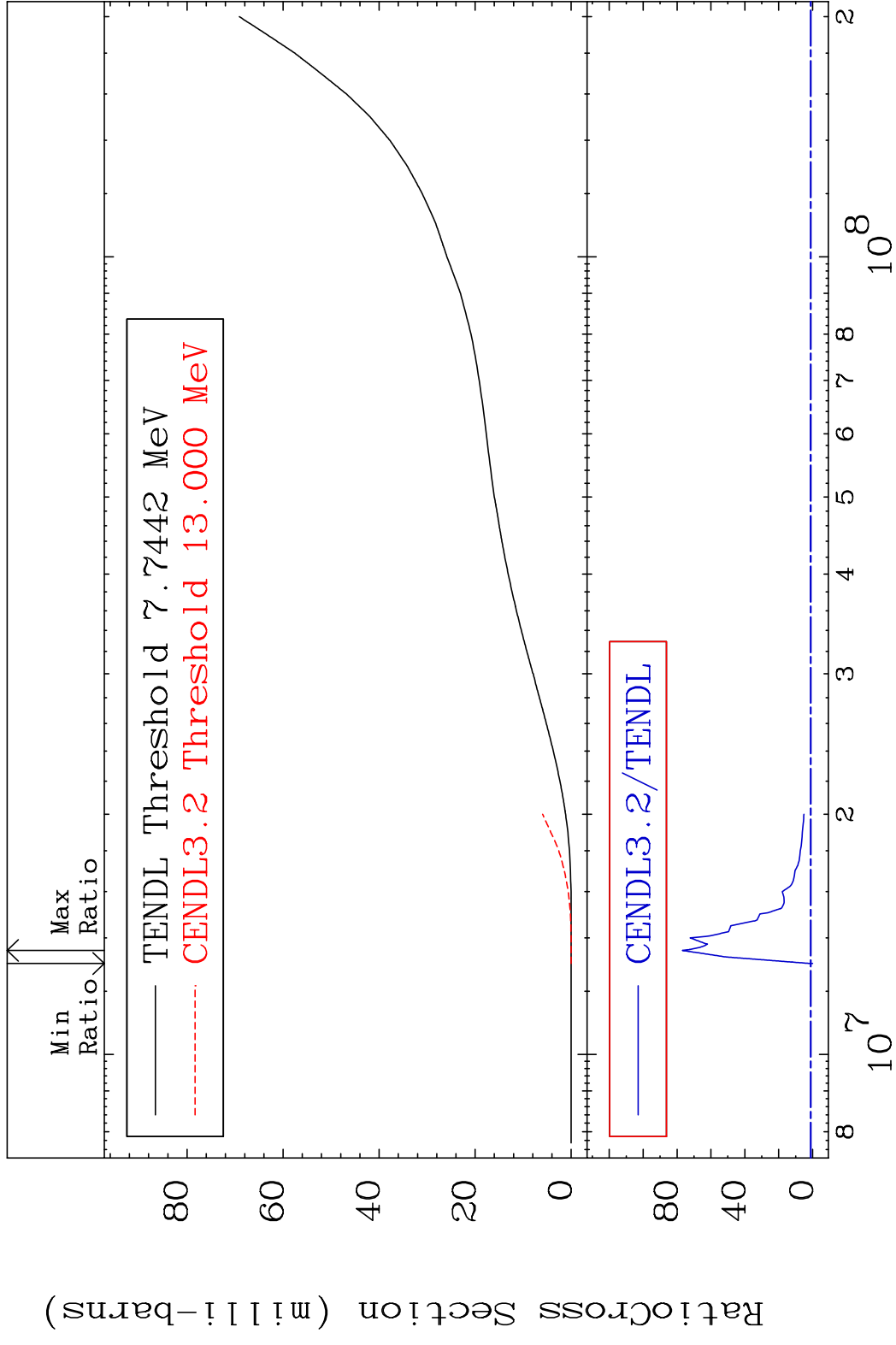
29

Incident Energy (eV)

51-Sb-127

MAT 5143

Tritium Production 51-Sb-127
Cross Section -100.0 To 7586. %

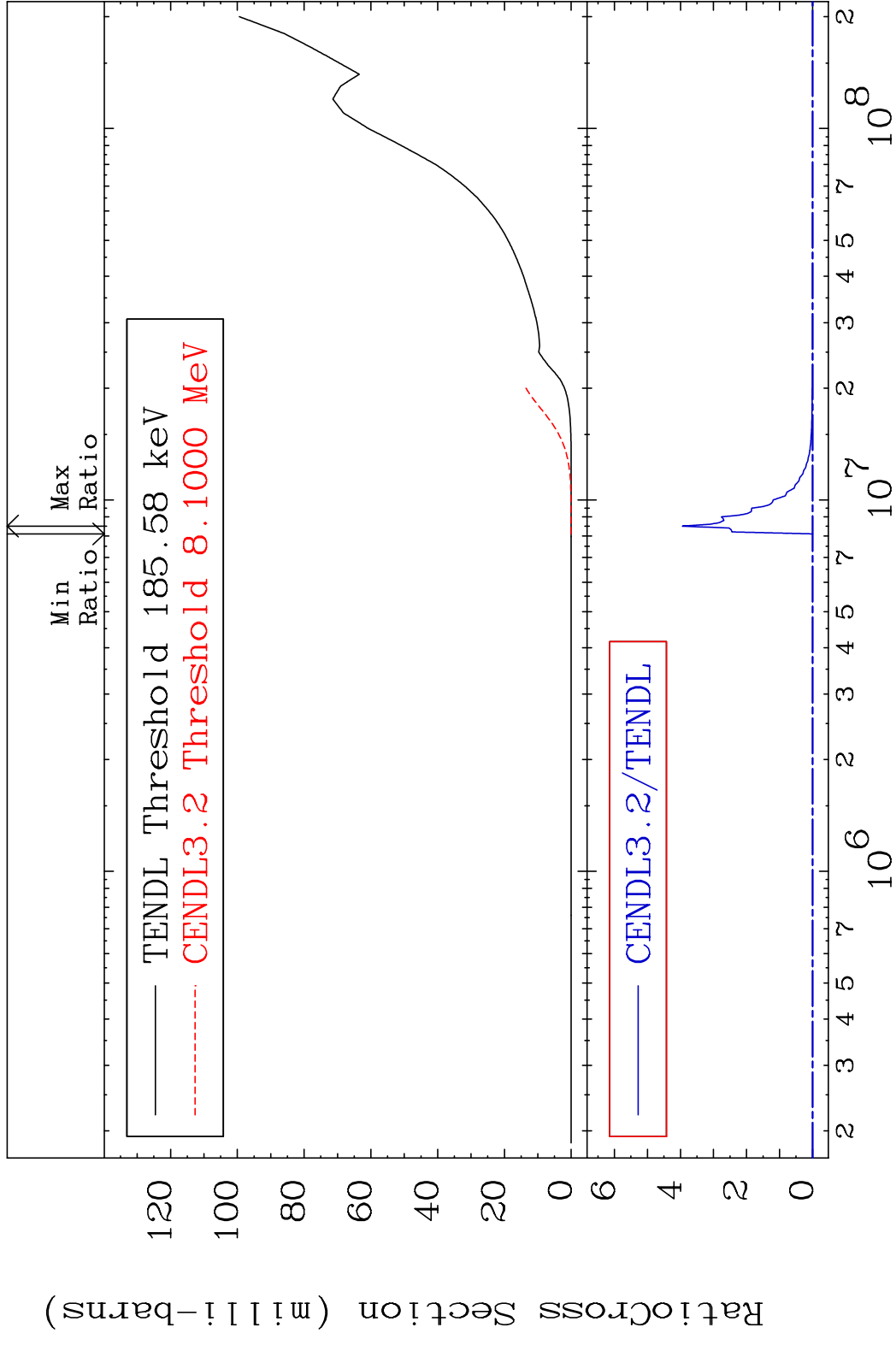


30

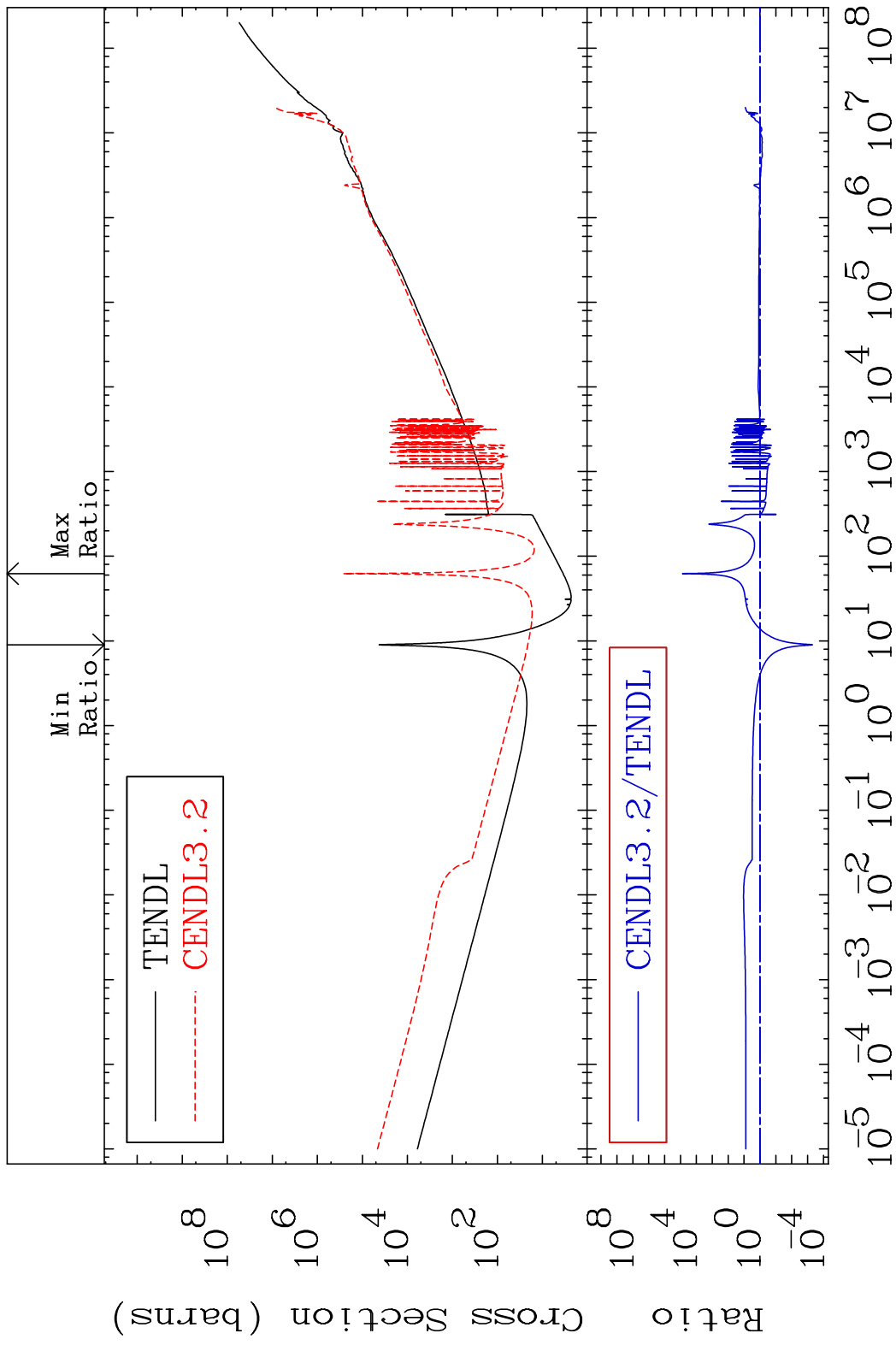
Incident Energy (eV)

51-Sb-127

Cross Section -100.0 To 9999. %

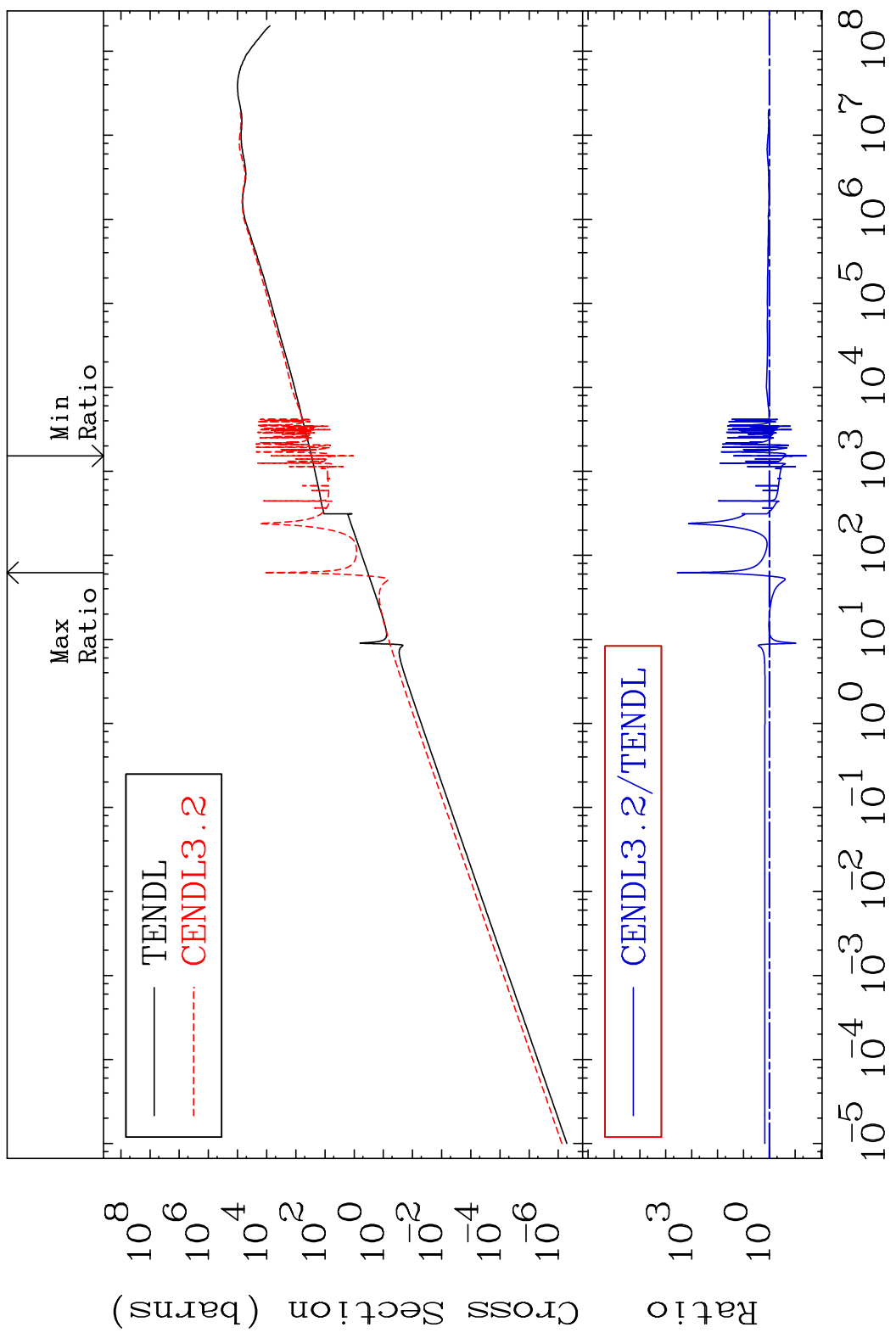


MAT 5143 Kerma total (eV-barns) 51-Sb-127
 Cross Section -99.95 To 9999. %

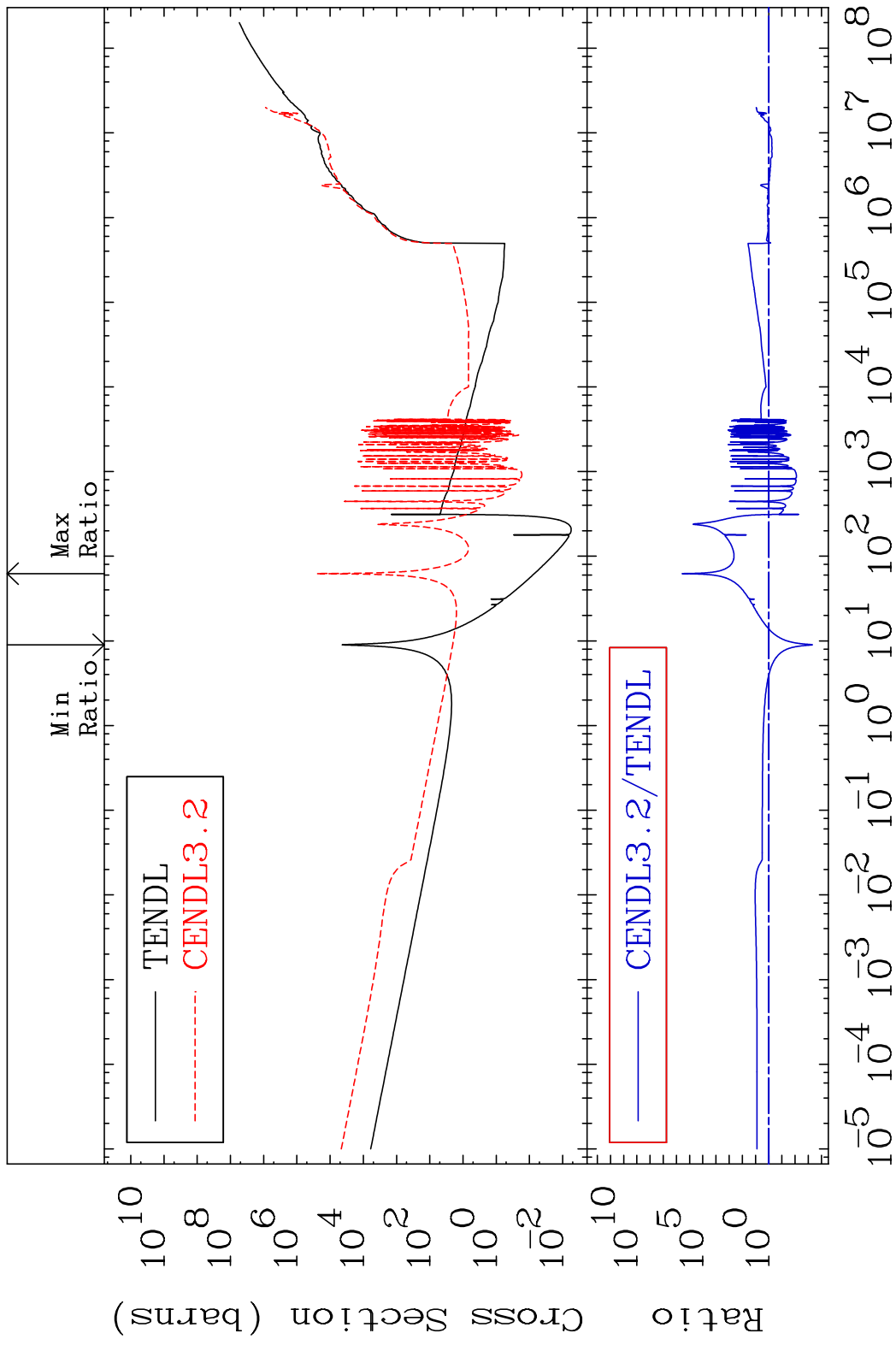


MAT 5143

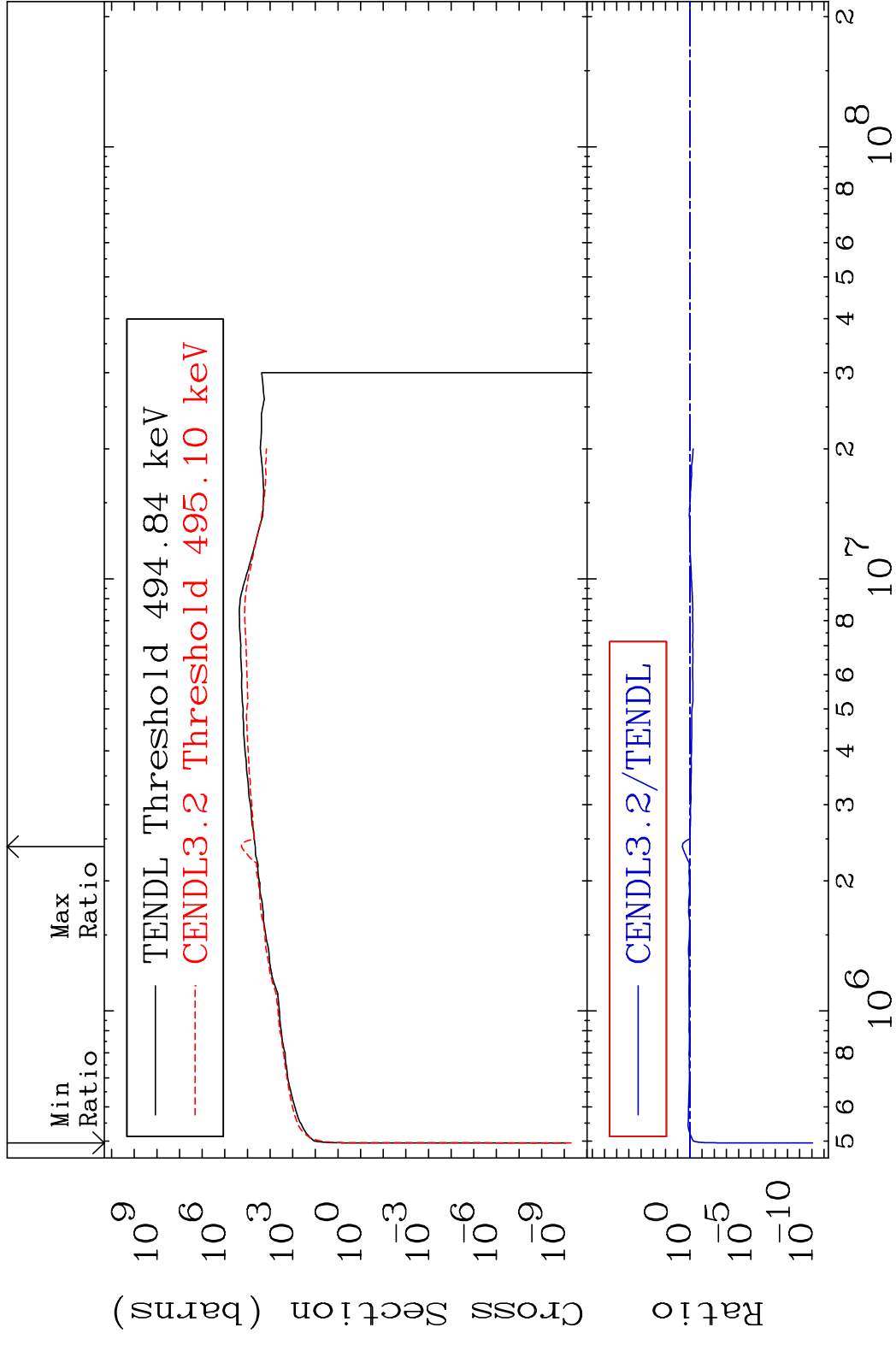
Kerma elastic Cross Section -96.31 To 9999. %



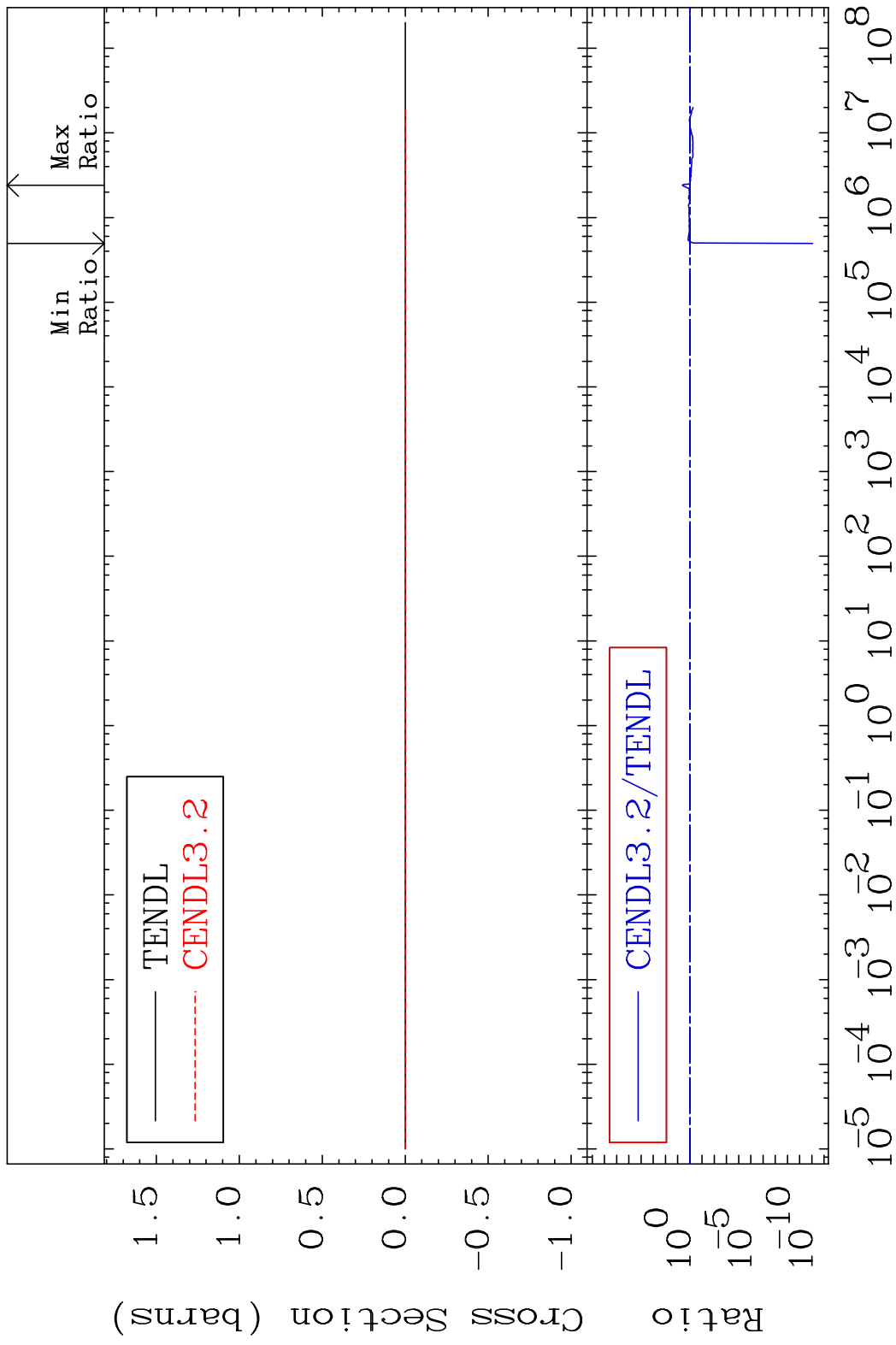
MAT 5143 Kerma non-elastic (all but mt2) 51-Sb-127
 Cross Section -99.95 To 9999. %



MAT 5143 Kerma inelastic (mt51-91) 51-Sb-127
 Cross Section -100.0 To 313.2 %

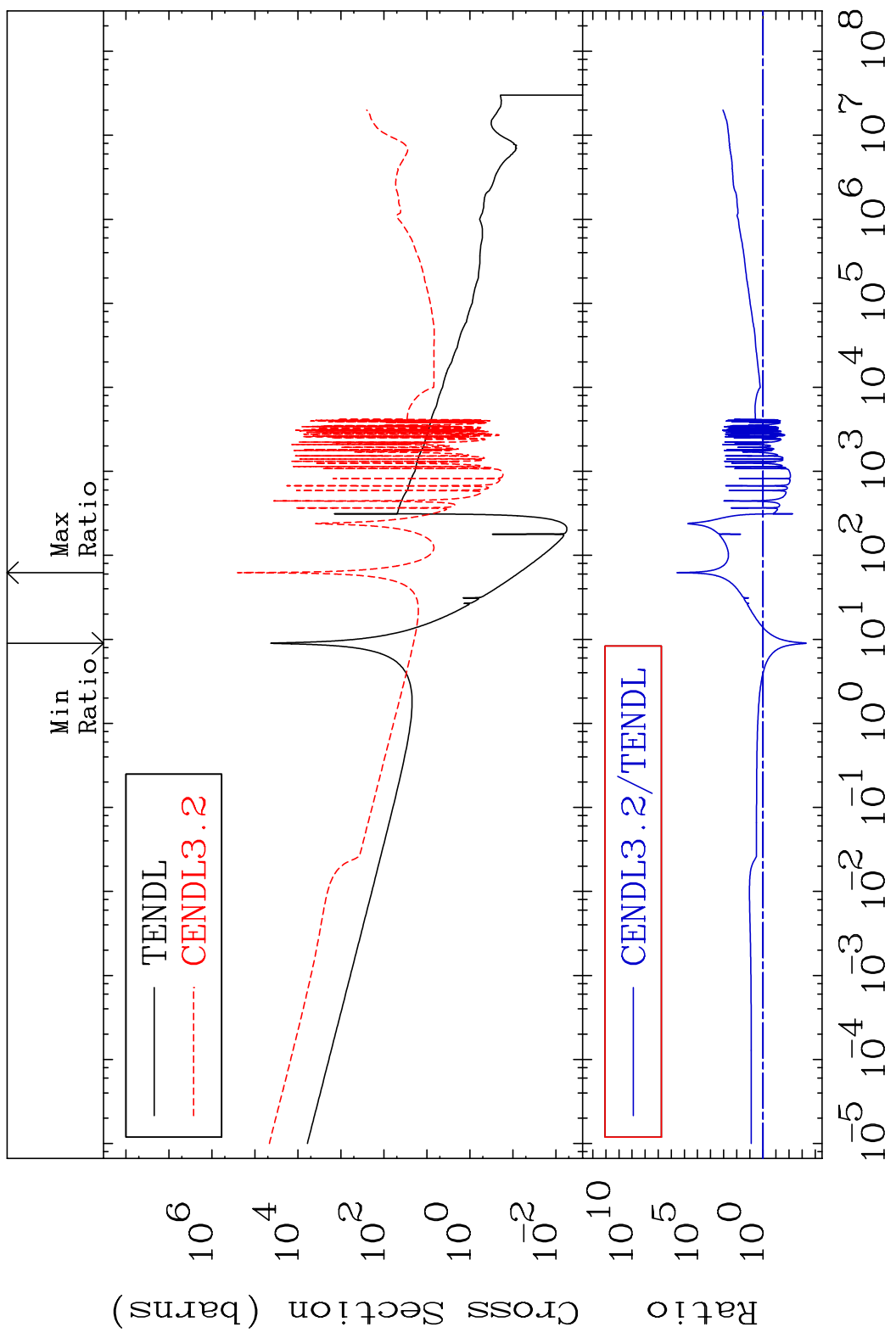


MAT 5143 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-127
 Cross Section -100.0 To 313.2 %

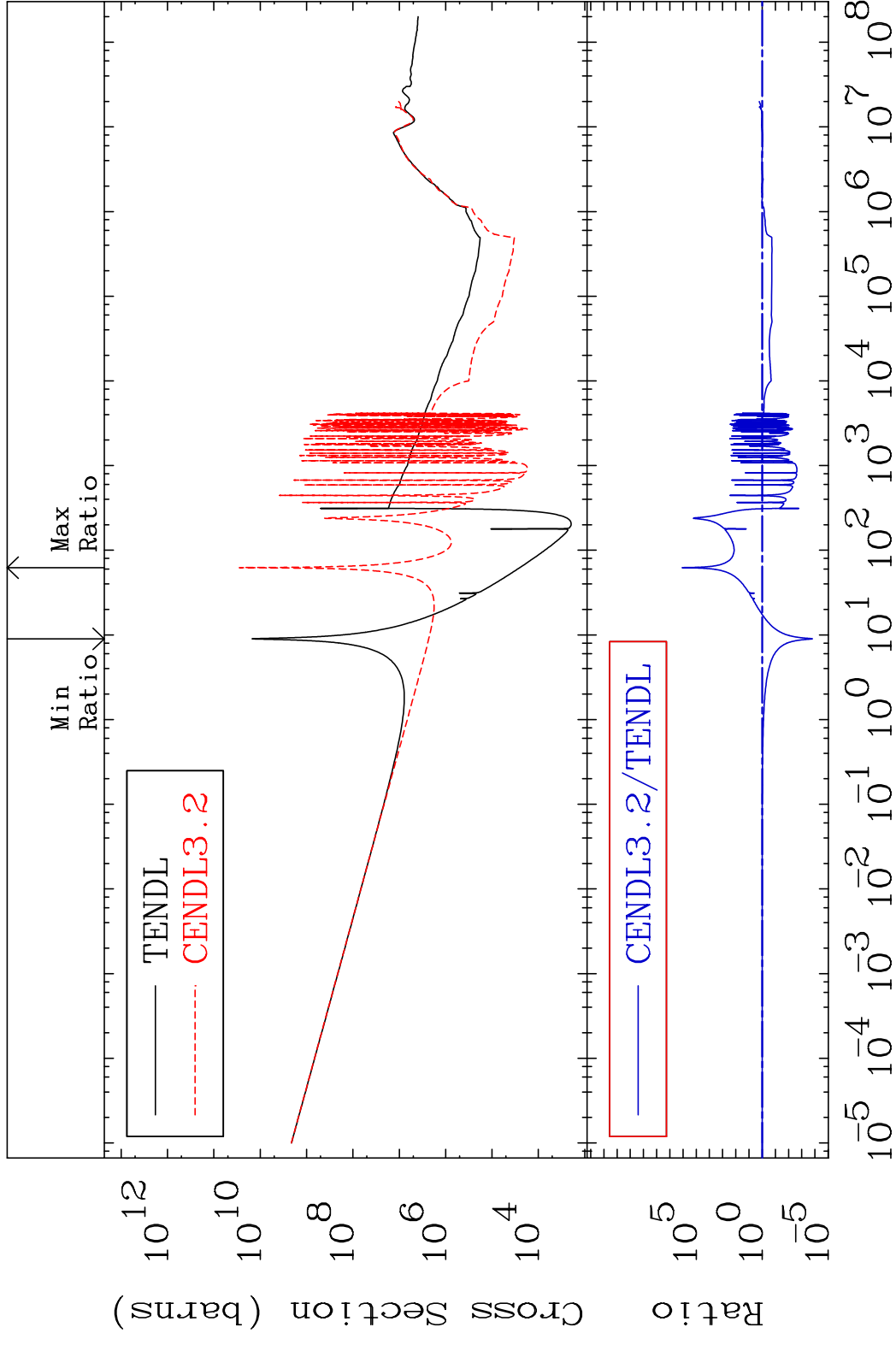


MAT 5143

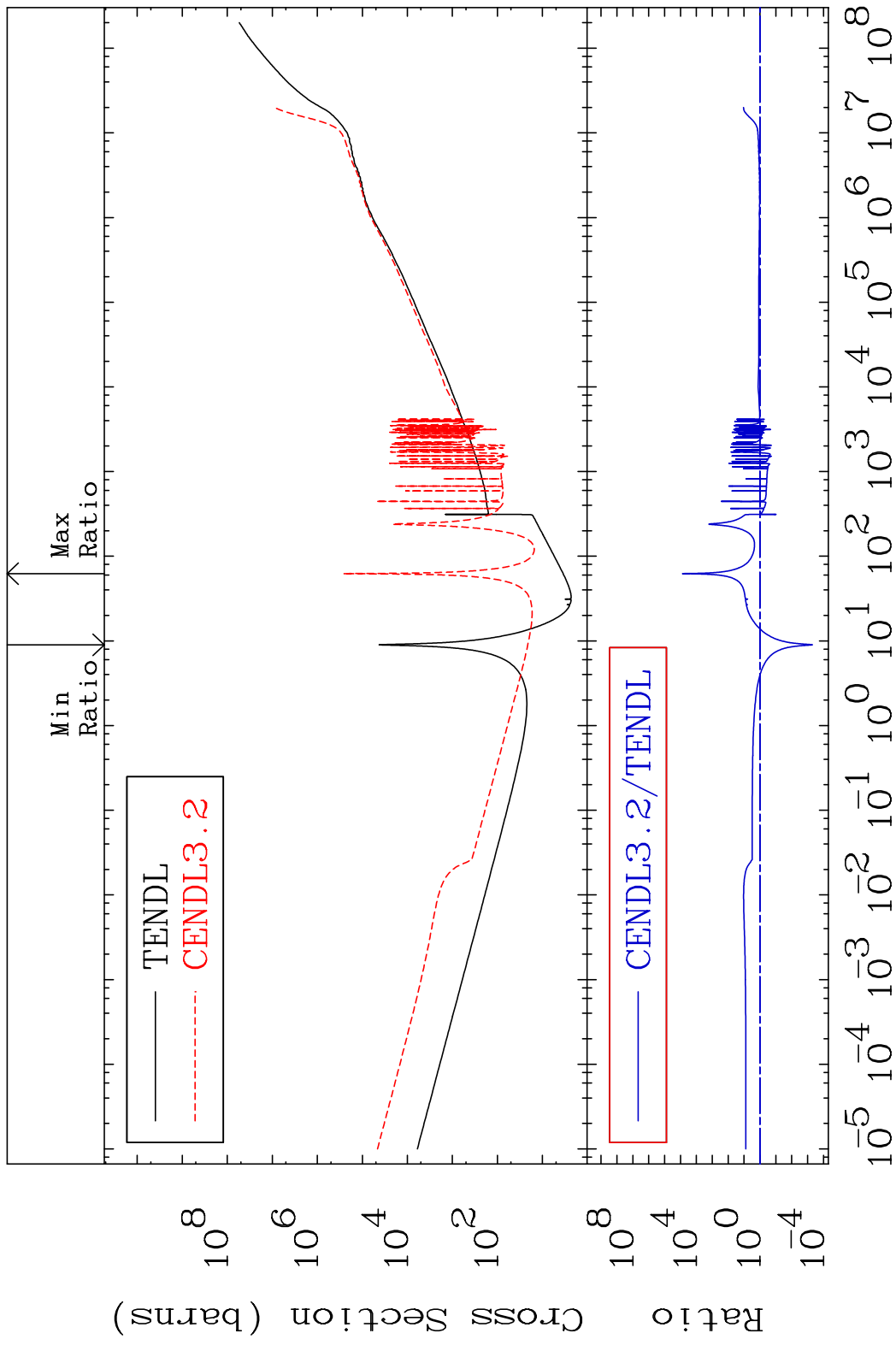
Kerma capture (mt102) 51-Sb-127
Cross Section -99.95 To 9999. %



MAT 5143 Total photon (eV-barns) 51-Sb-127
 Cross Section -99.98 To 9999. %



MAT 5143 Total kinematic kerma (high limit) 51-Sb-127
 Cross Section -99.95 To 9999. %

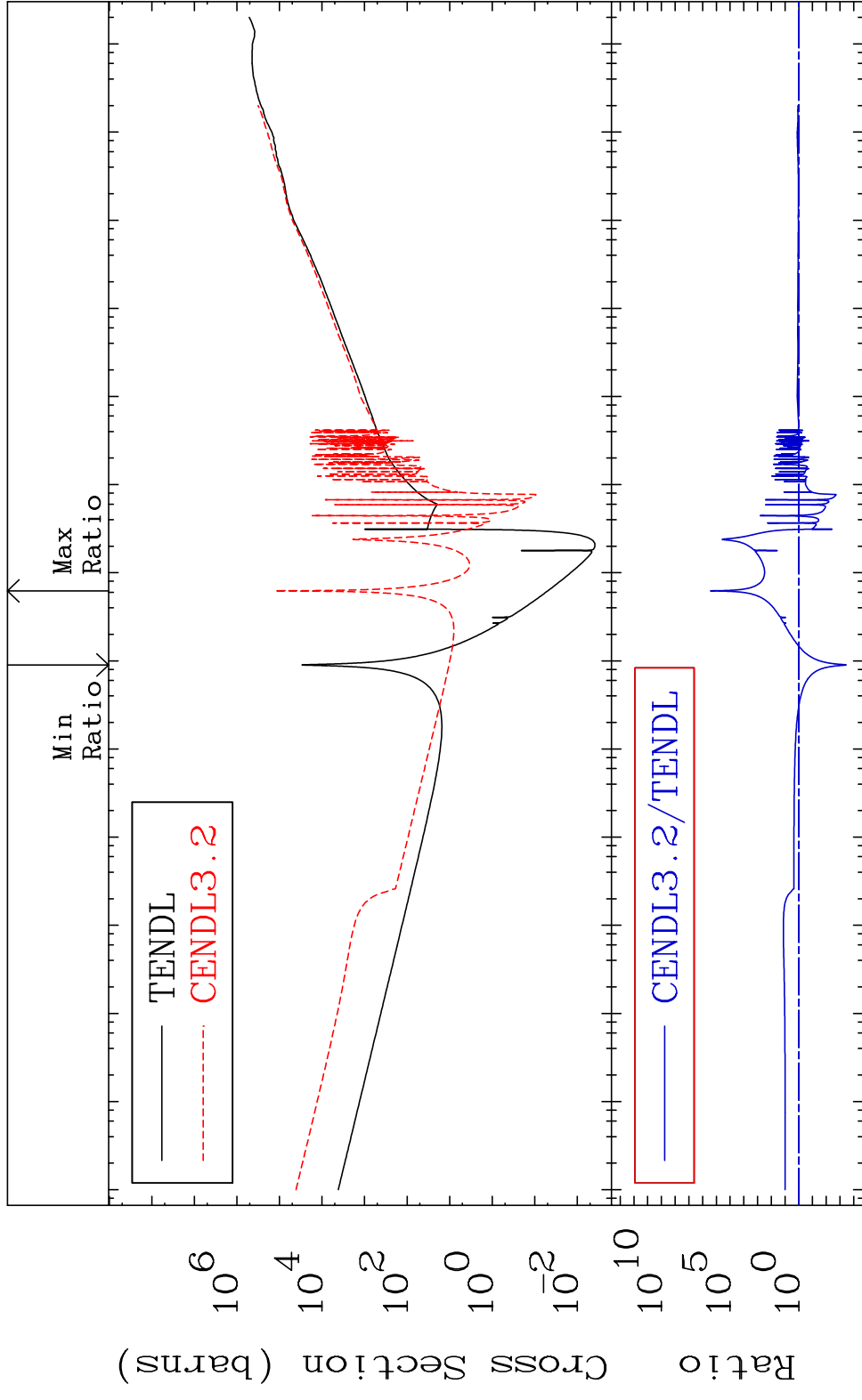


MAT 5143

Dpa total (eV-barns)

51-Sb-127

Cross Section -99.97 To 9999. %



40

Incident Energy (eV)

51-Sb-127

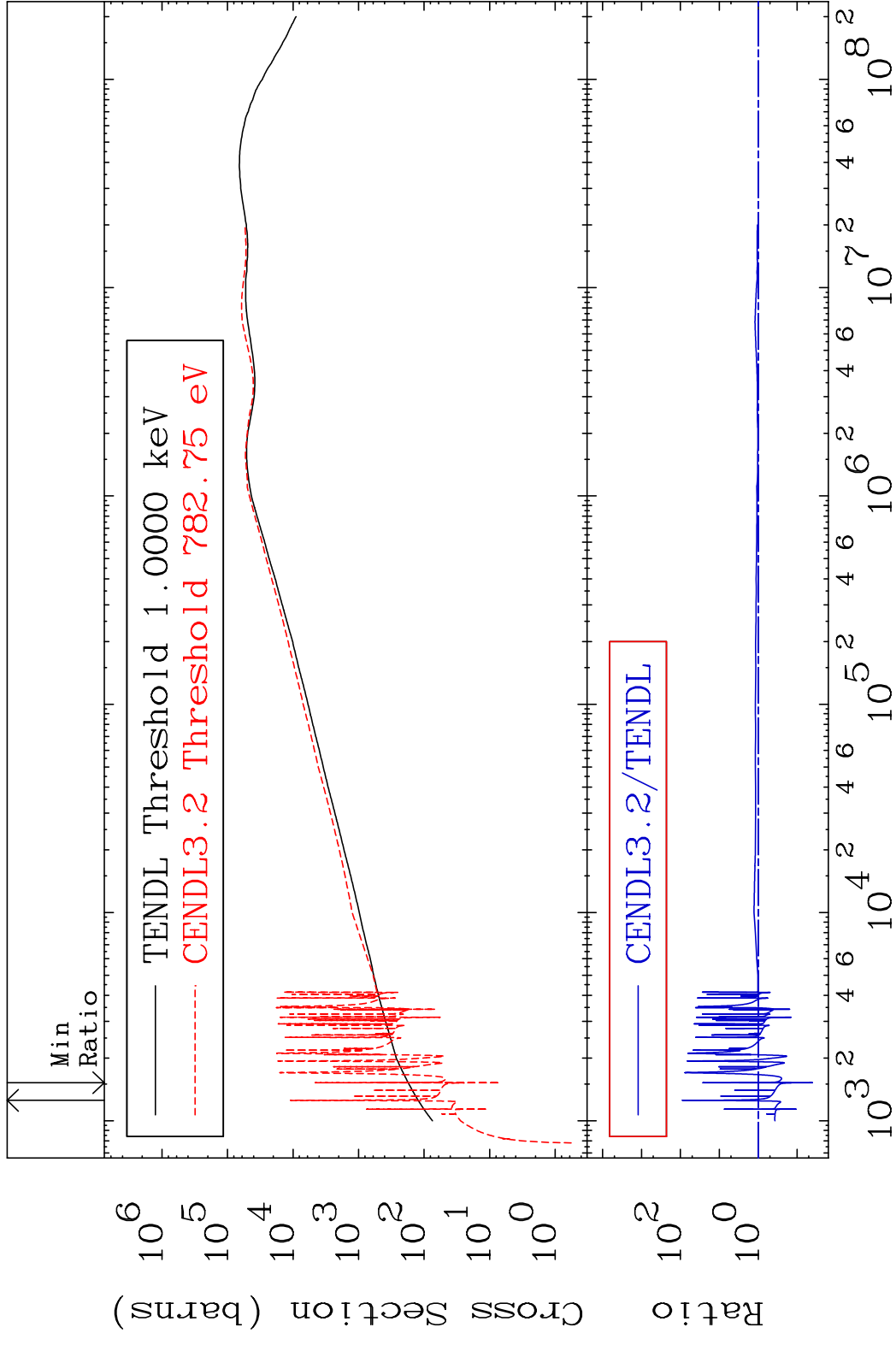
MAT 5143

Dpa elastic (mt2)

51-Sb-127

Cross Section

-95.99 To 8830. %

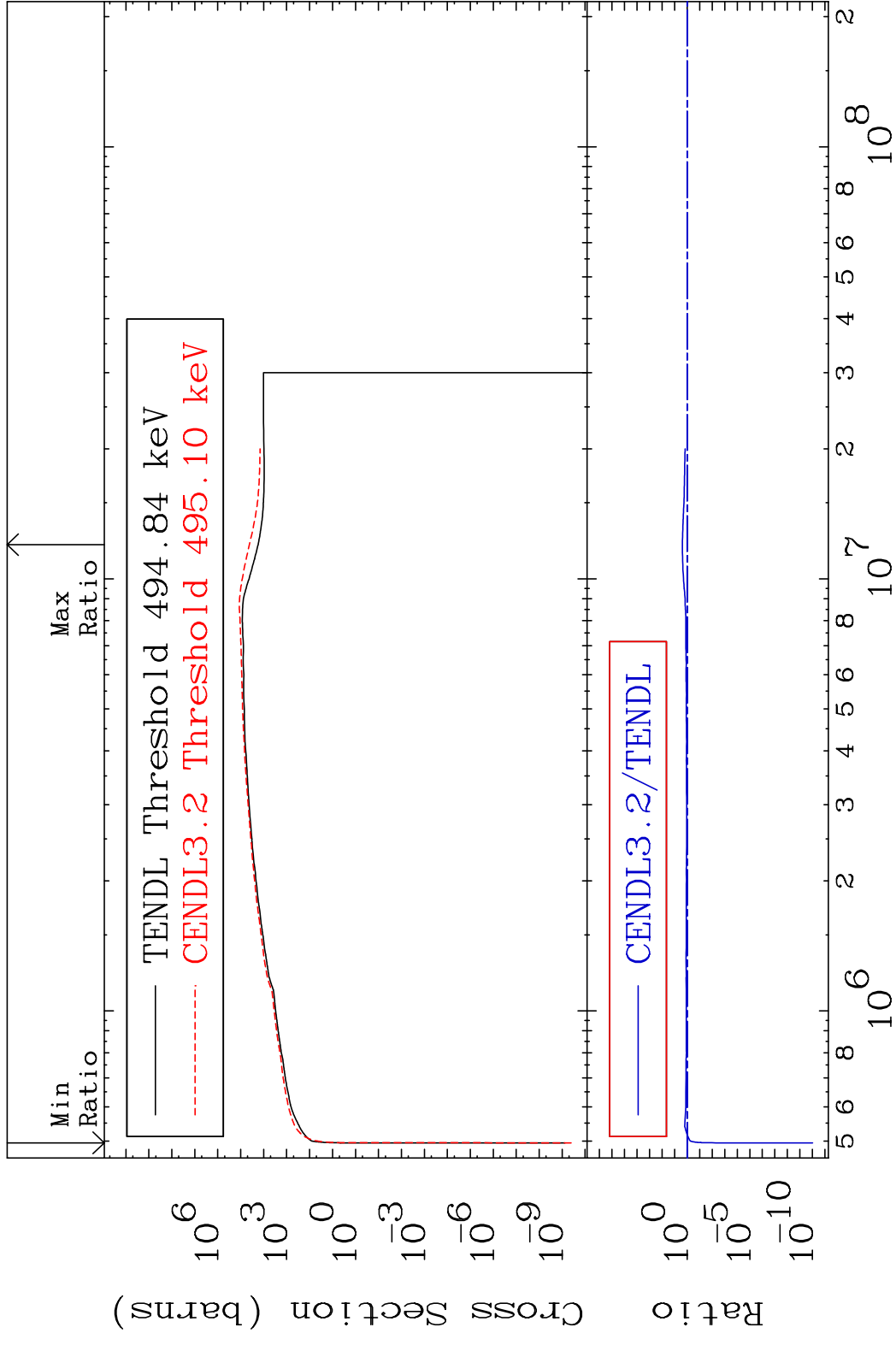


41

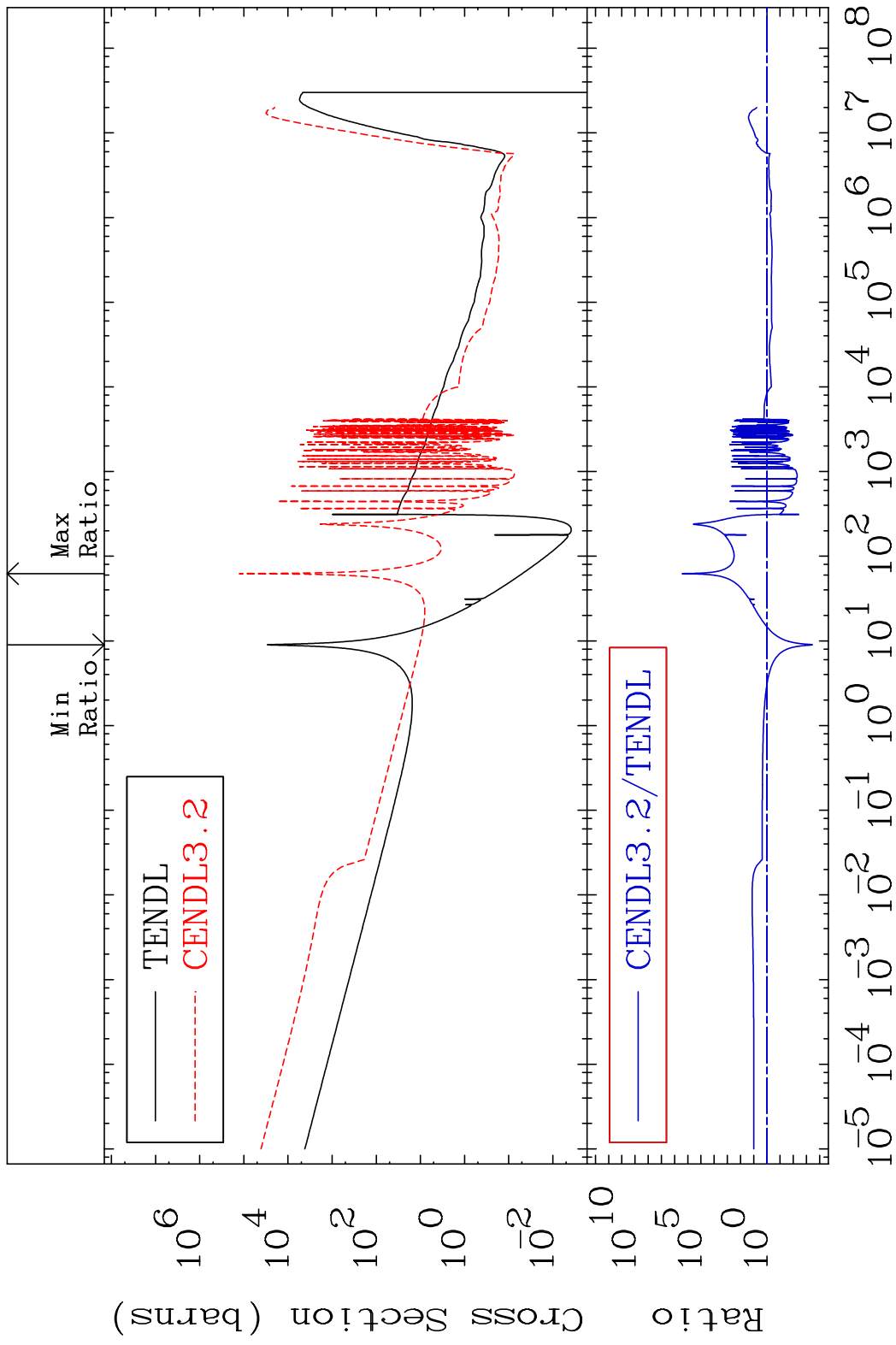
Incident Energy (eV)

51-Sb-127

MAT 5143 Dpa inelastic (mt51-91) 51-Sb-127
 Cross Section -100.0 To 140.6 %



MAT 5143 Dpa disappearance (mt102 -120) 51-Sb-127
 Cross Section -99.97 To 9999. %

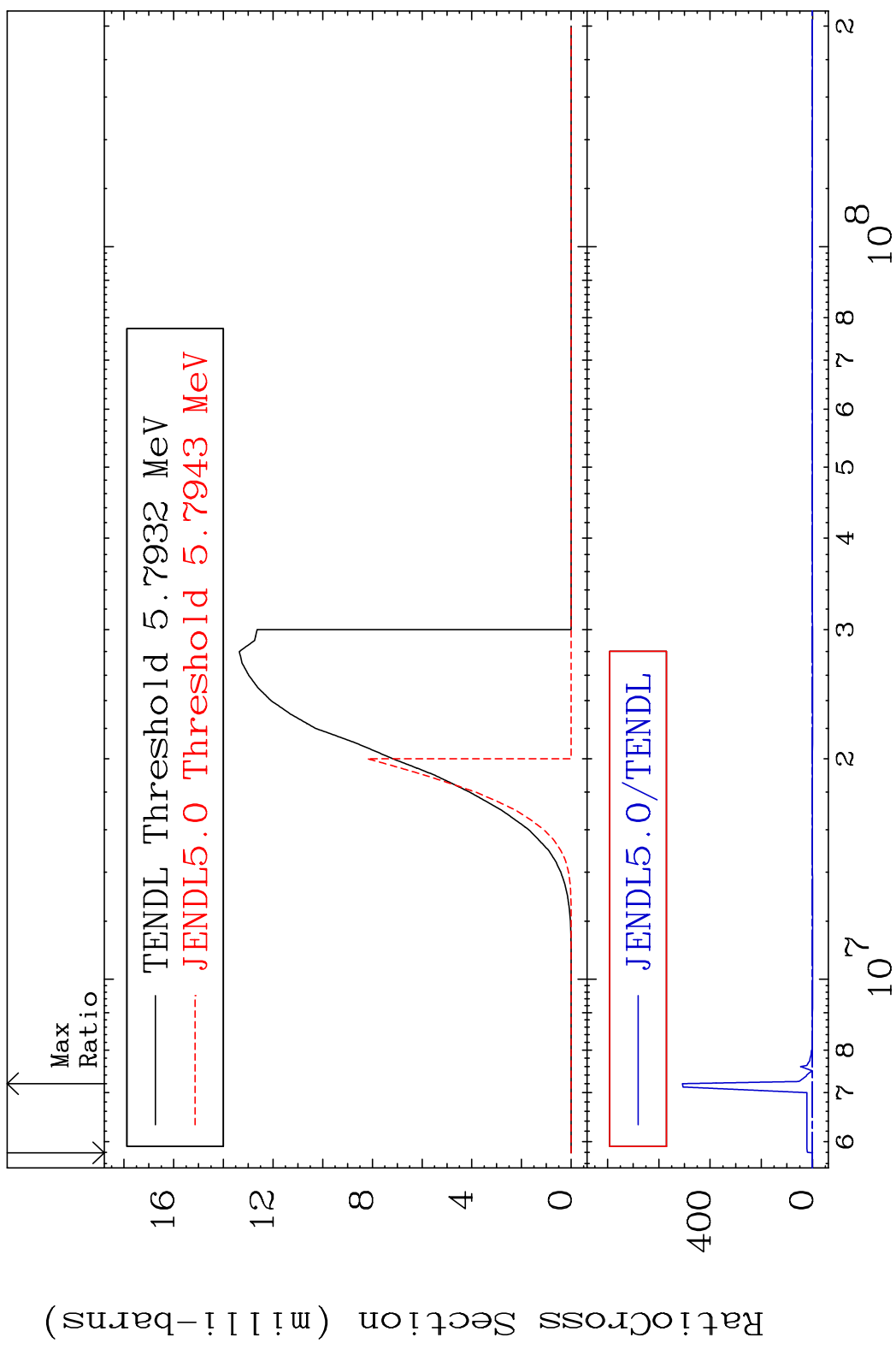


MAT 5143

(n,d)

51-Sb-127

Cross Section -100.0 To 9999. %

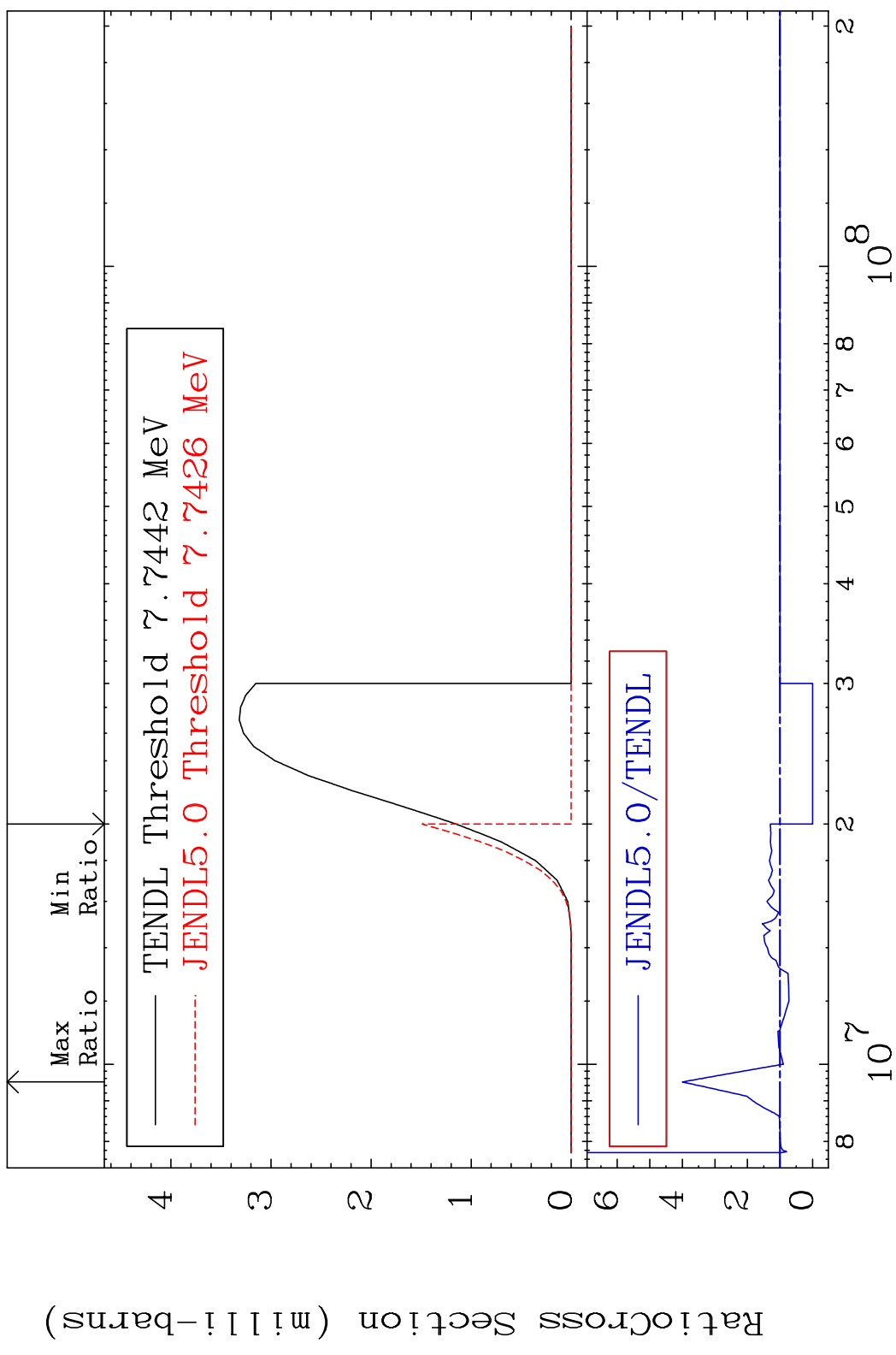


MAT 5143

(n, t)

51-Sb-127

Cross Section -100.0 To 300.0 %

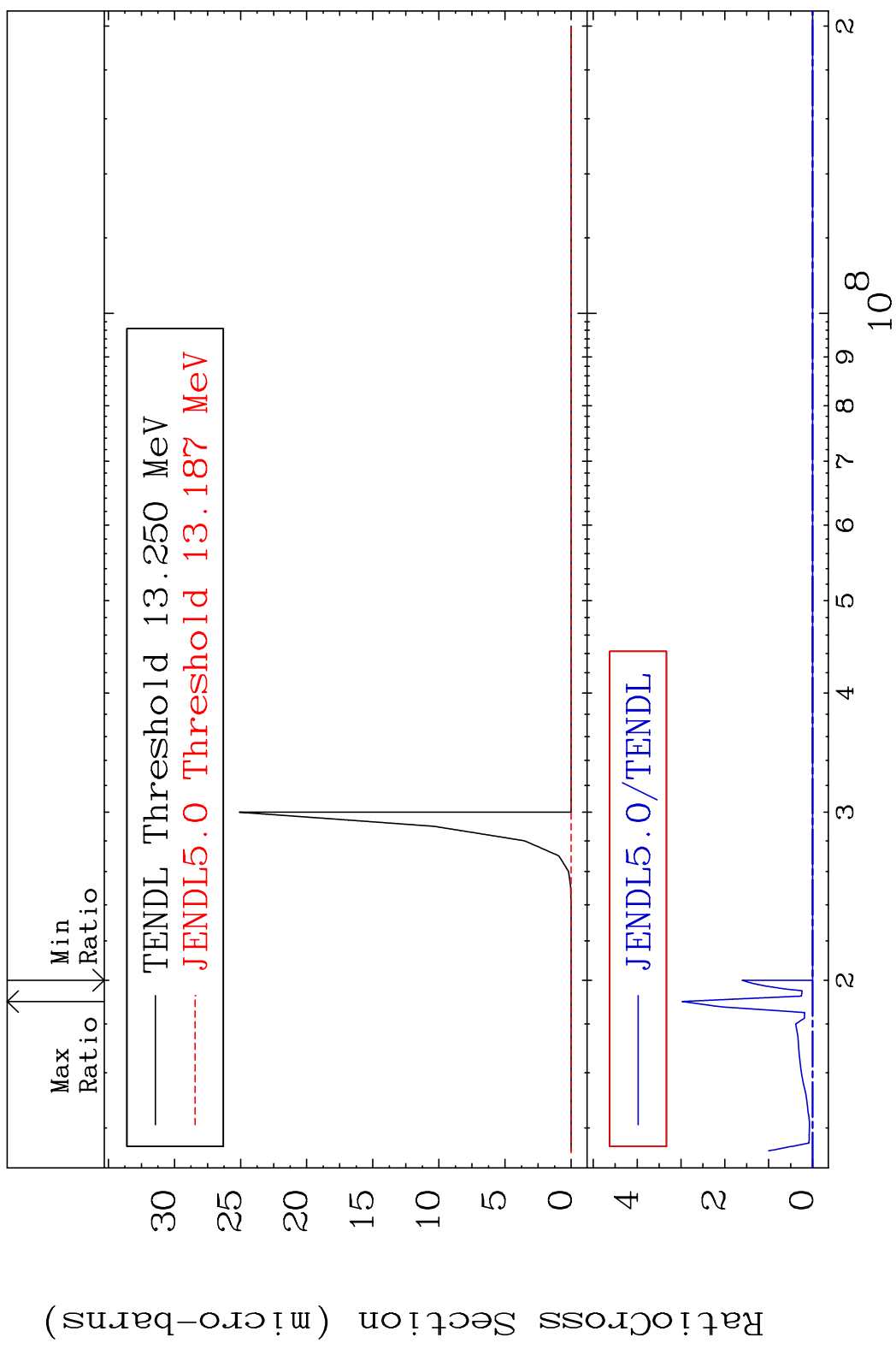


45

Incident Energy (eV)

51-Sb-127

Cross Section -100.0 To 9999. %

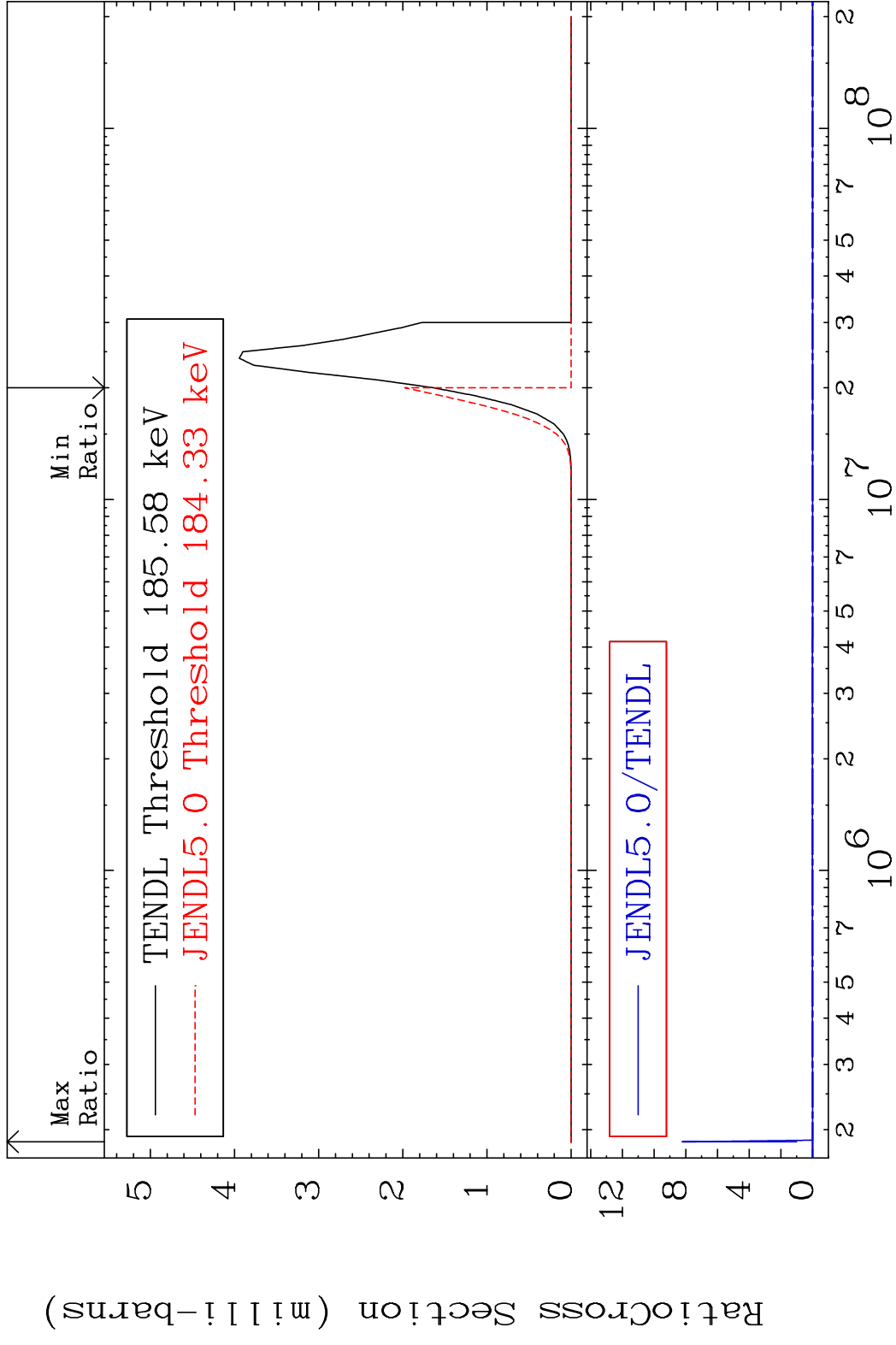


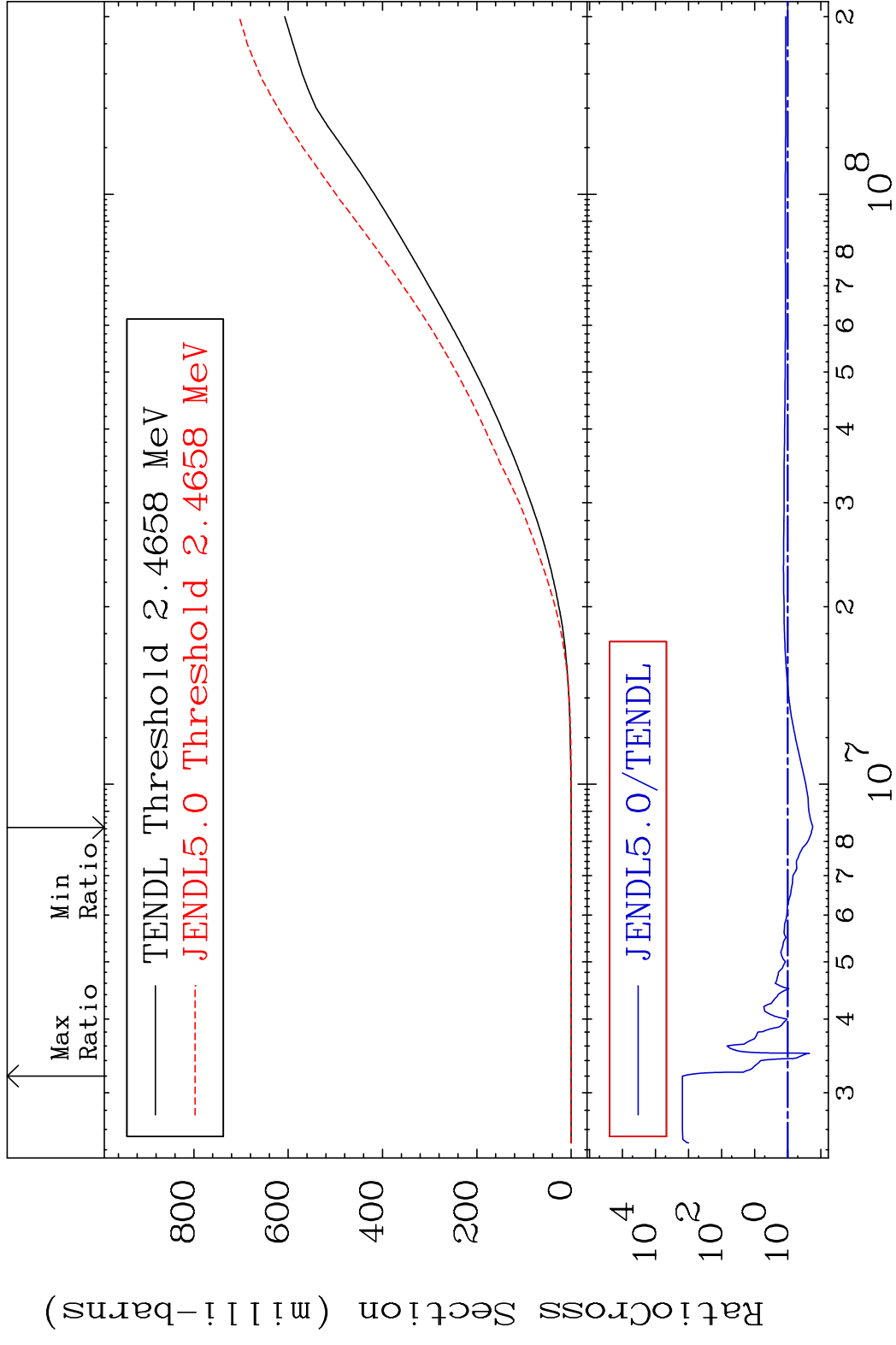
MAT 5143

(n, α)

51-Sb-127

Cross Section -100.0 To 9999. %



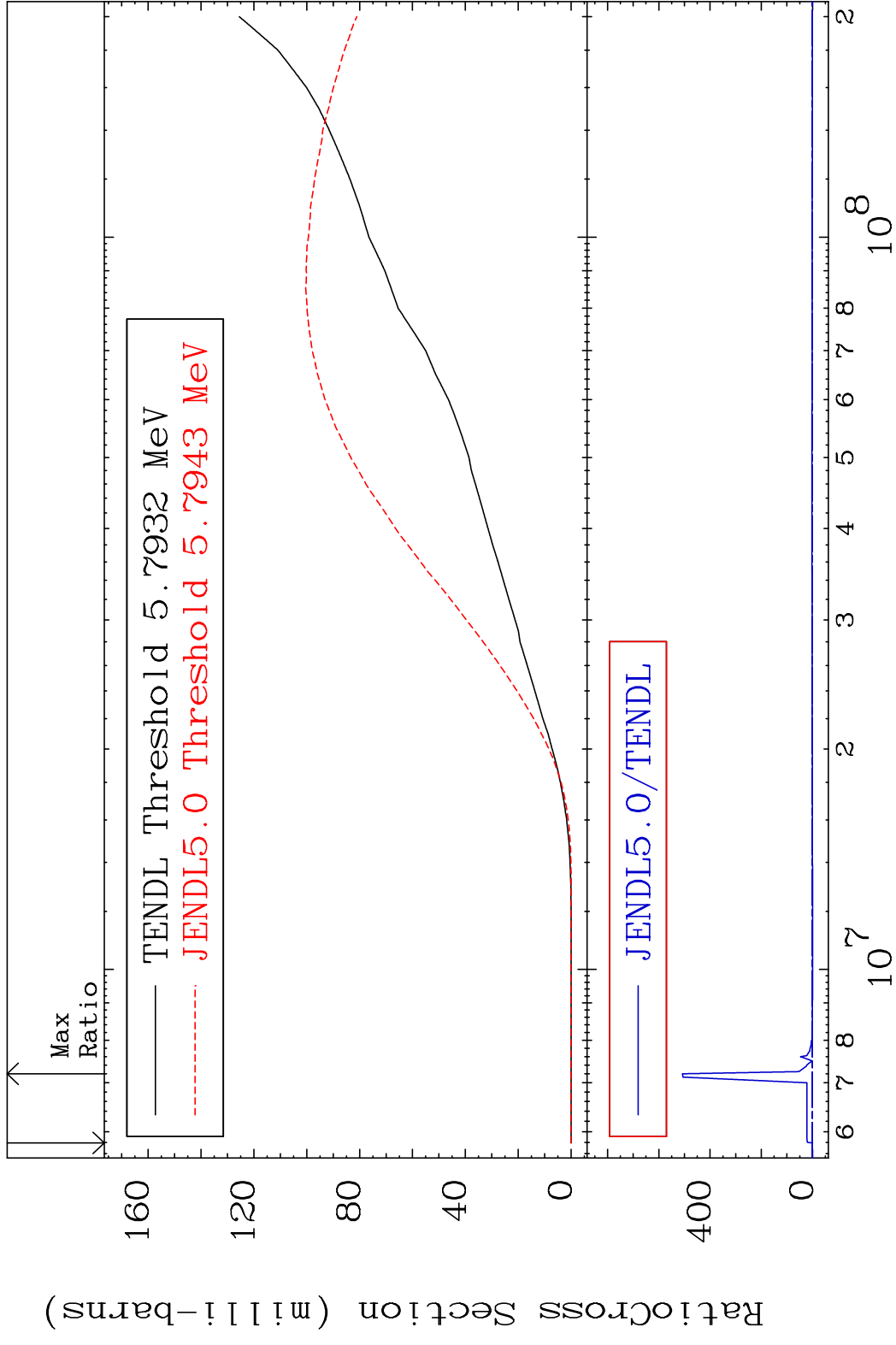


MAT 5143

Deuterium Production

51-Sb-127

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

51-Sb-127

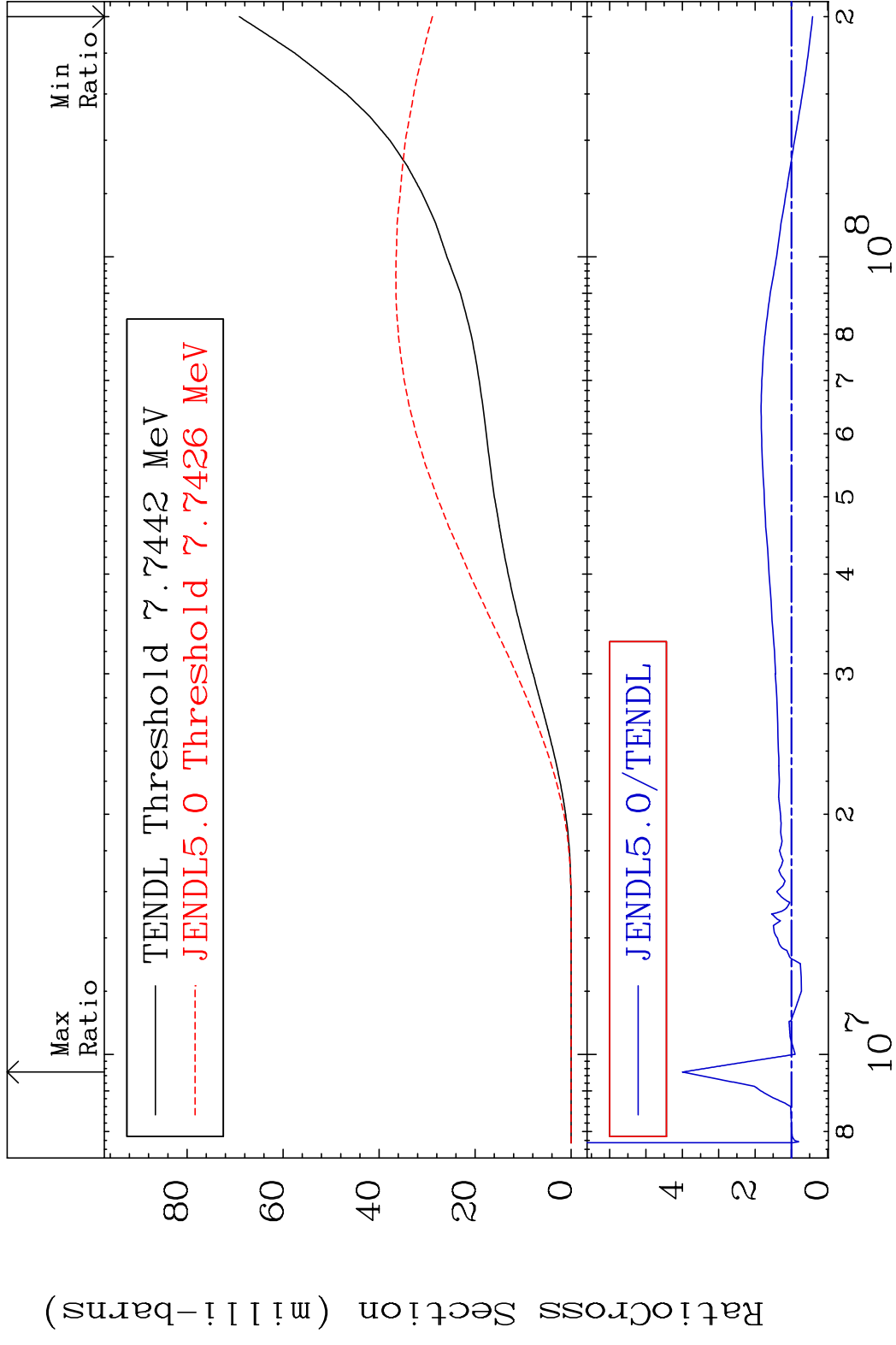
MAT 5143

Tritium Production

51-Sb-127

Cross Section

-58.18 To 300.0 %

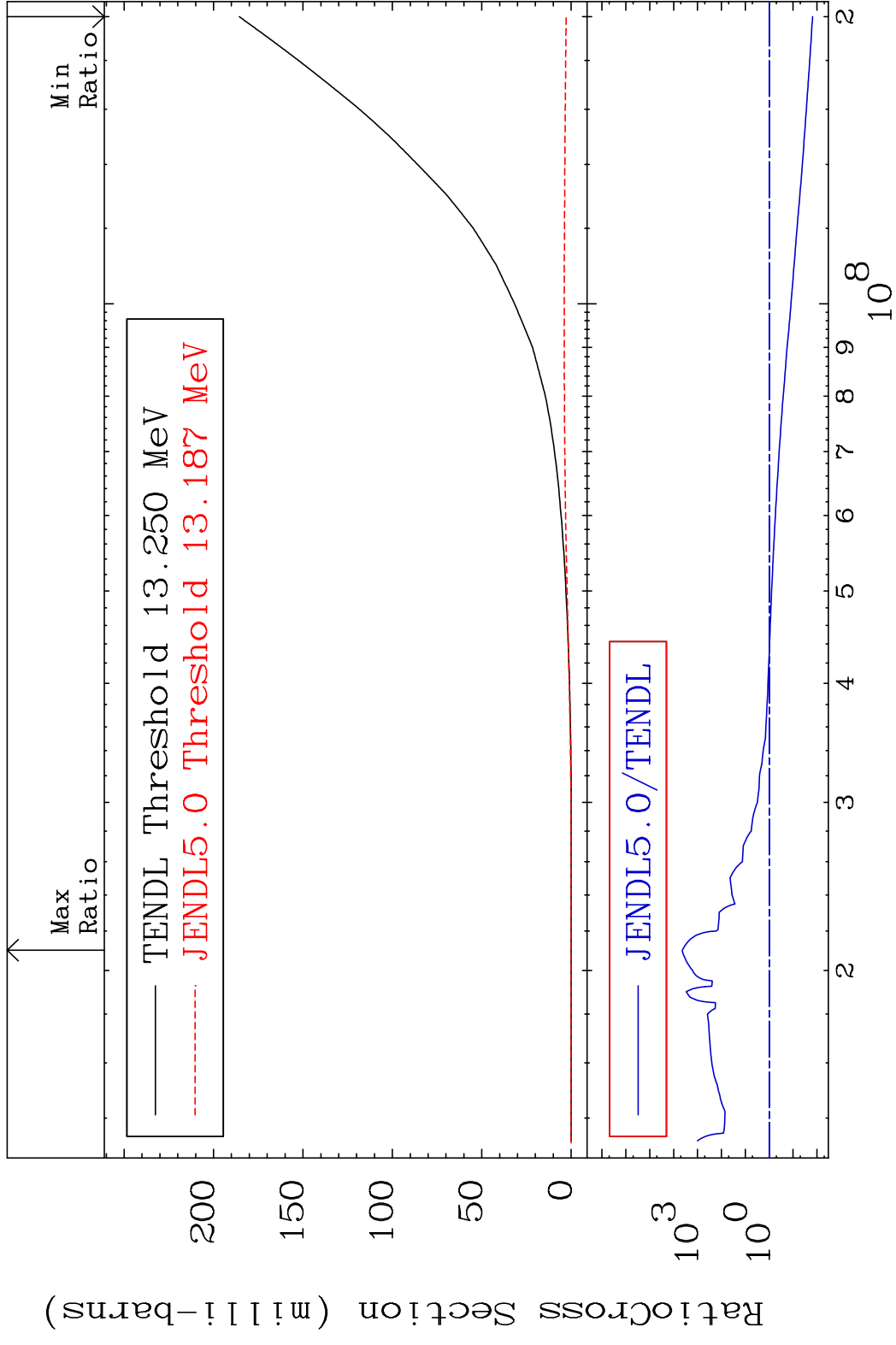


50

Incident Energy (eV)

51-Sb-127

Cross Section -98.47 To 9999. %

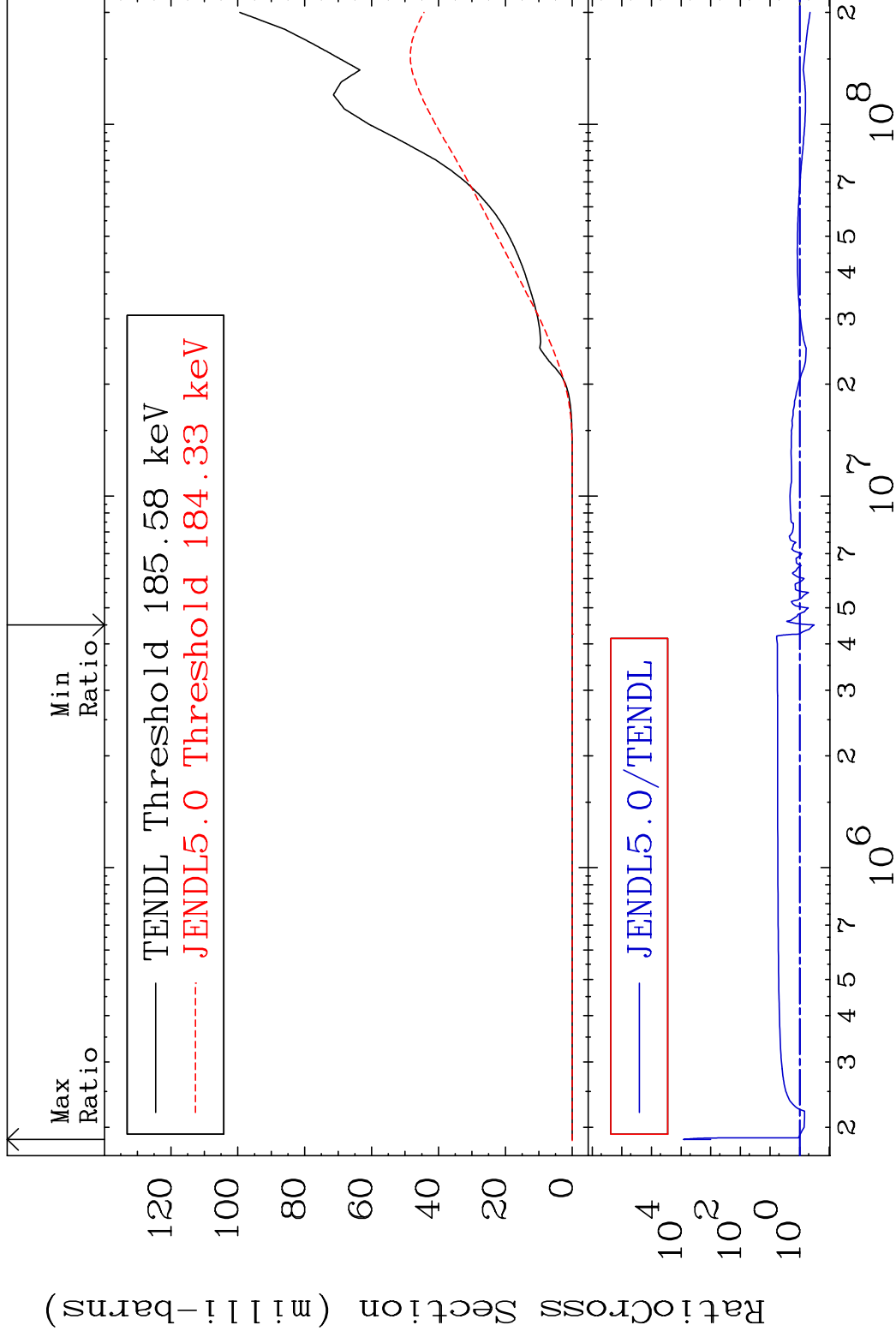


MAT 5143

He-4 Production

51-Sb-127

Cross Section -67.36 To 9999. %

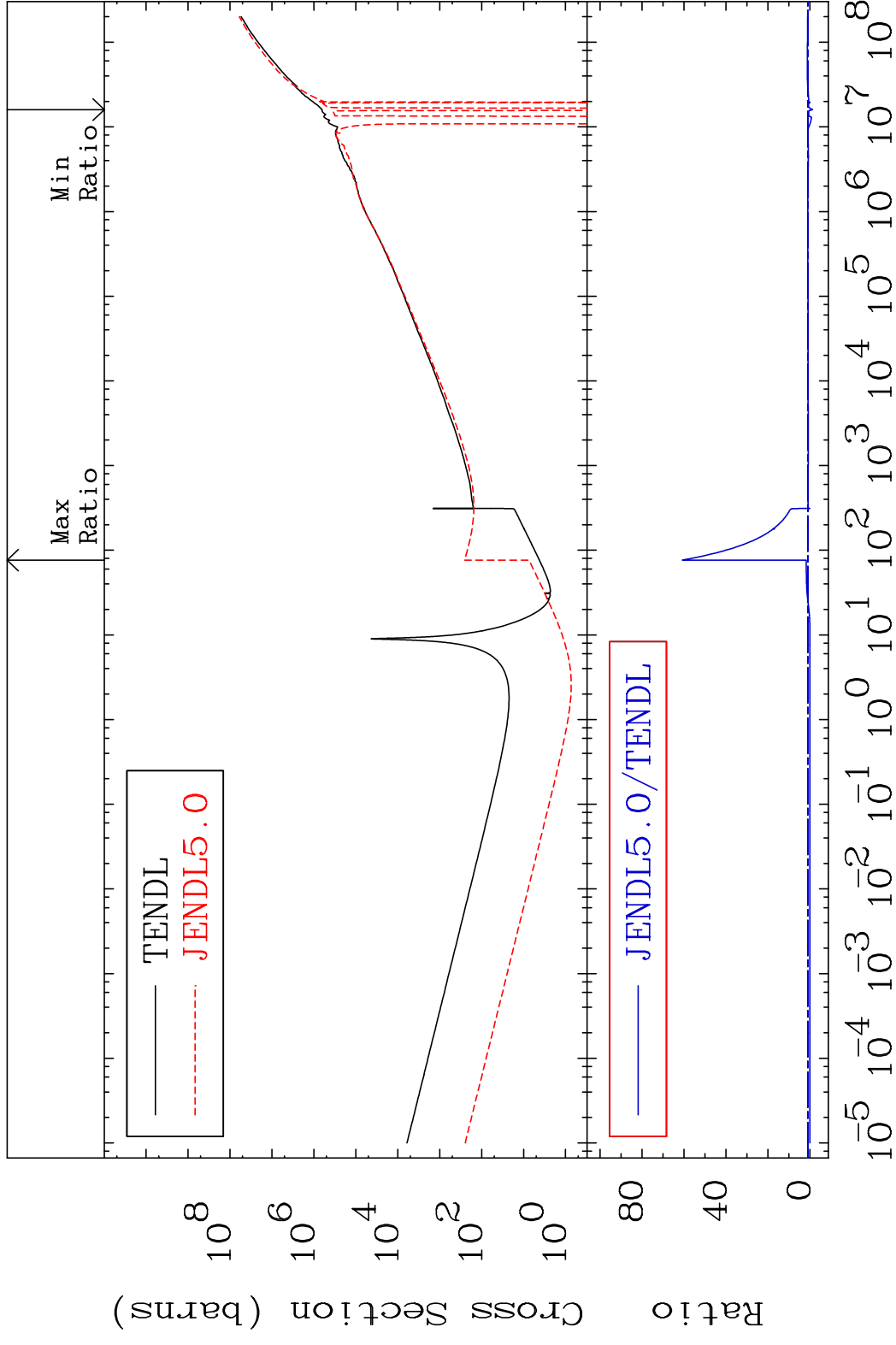


52

Incident Energy (eV)

51-Sb-127

MAT 5143 Kerma total (eV-barns) 51-Sb-127
 Cross Section -224.2 To 5982. %

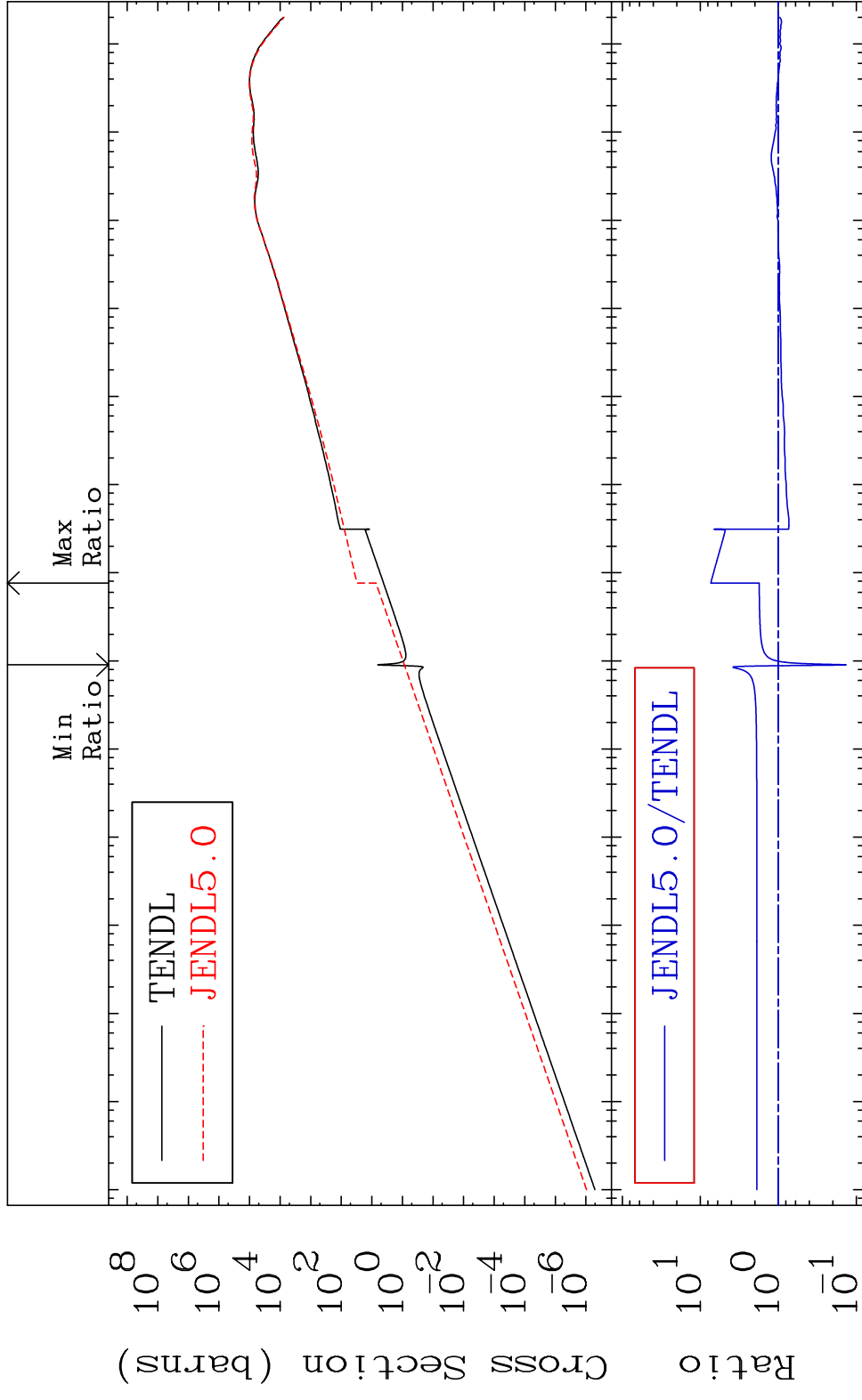


53 Incident Energy (eV) 51-Sb-127

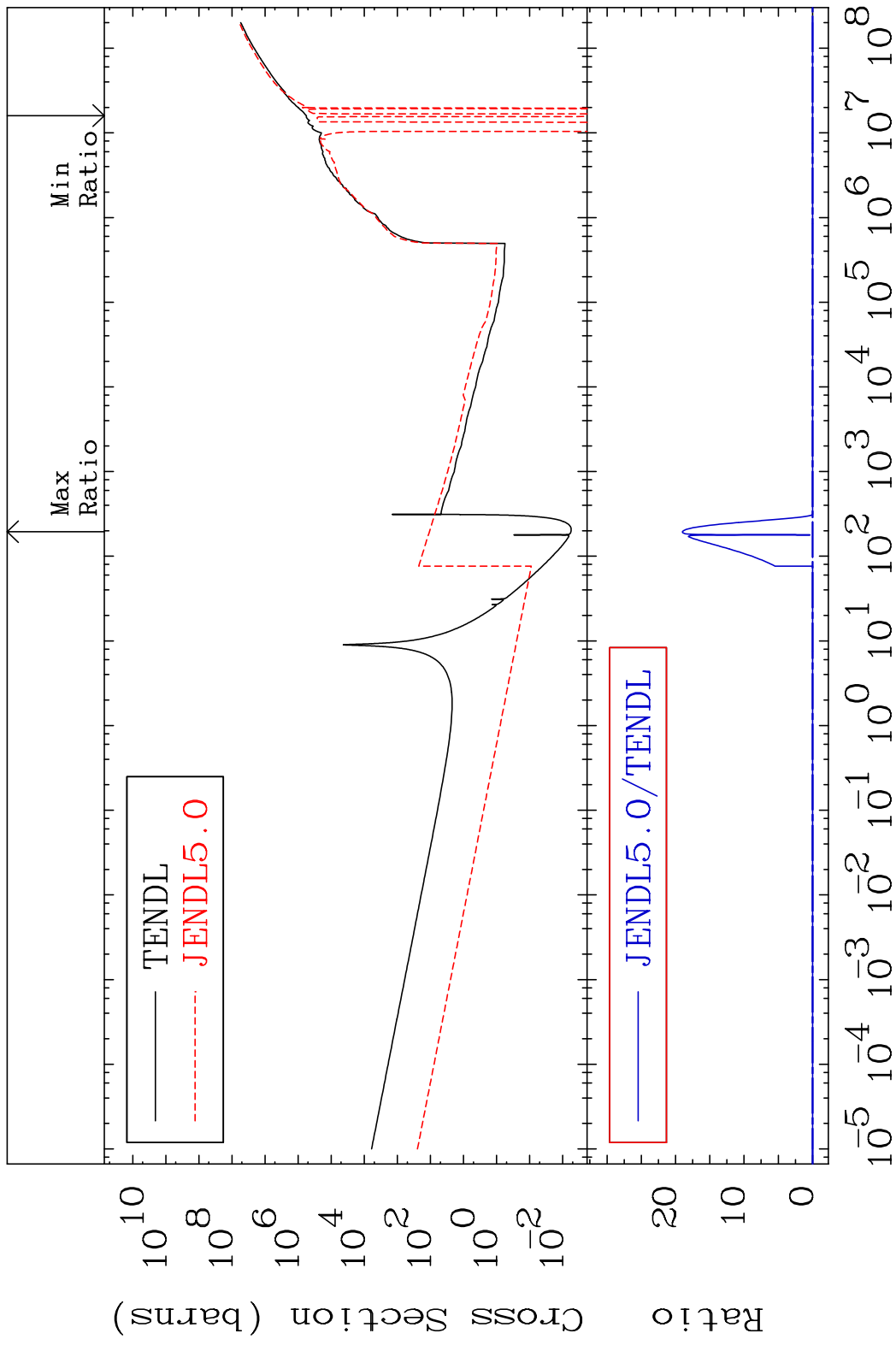
MAT 5143

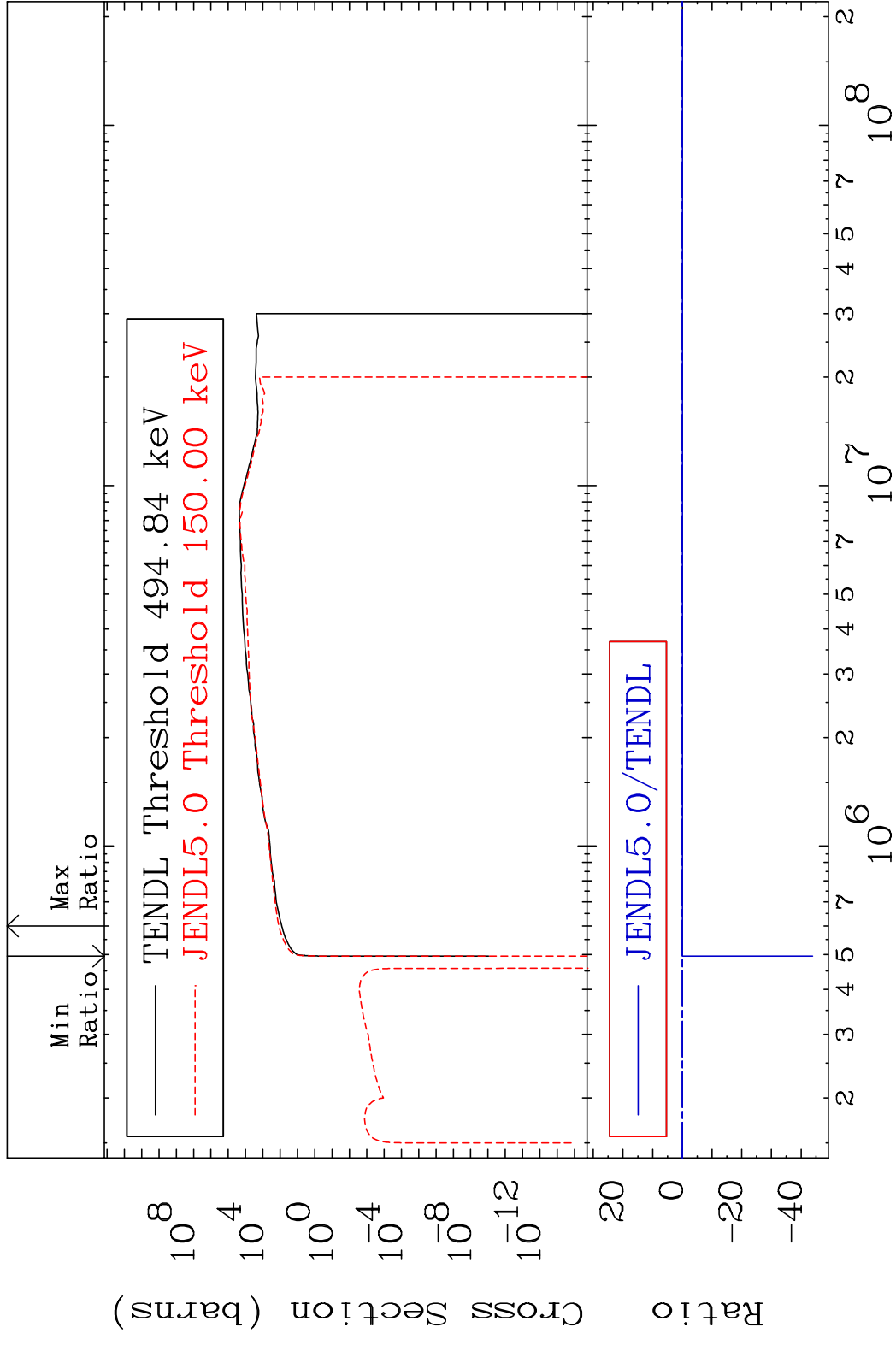
Kerma elastic Cross Section -86.57 To 635.3 %

51-Sb-127

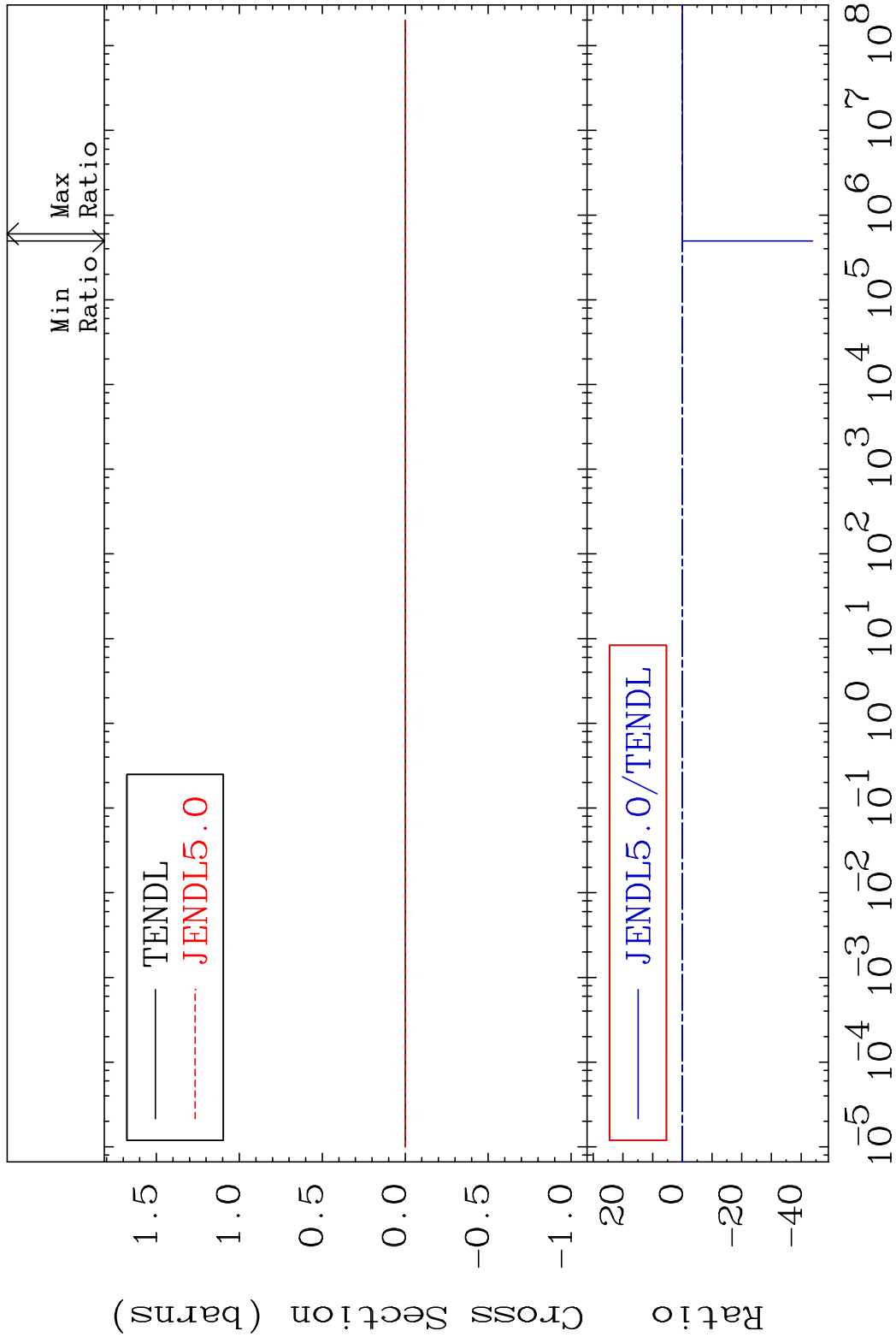


MAT 5143 Kerma non-elastic (all but mt2) 51-Sb-127
 Cross Section -253.2 To 9999. %





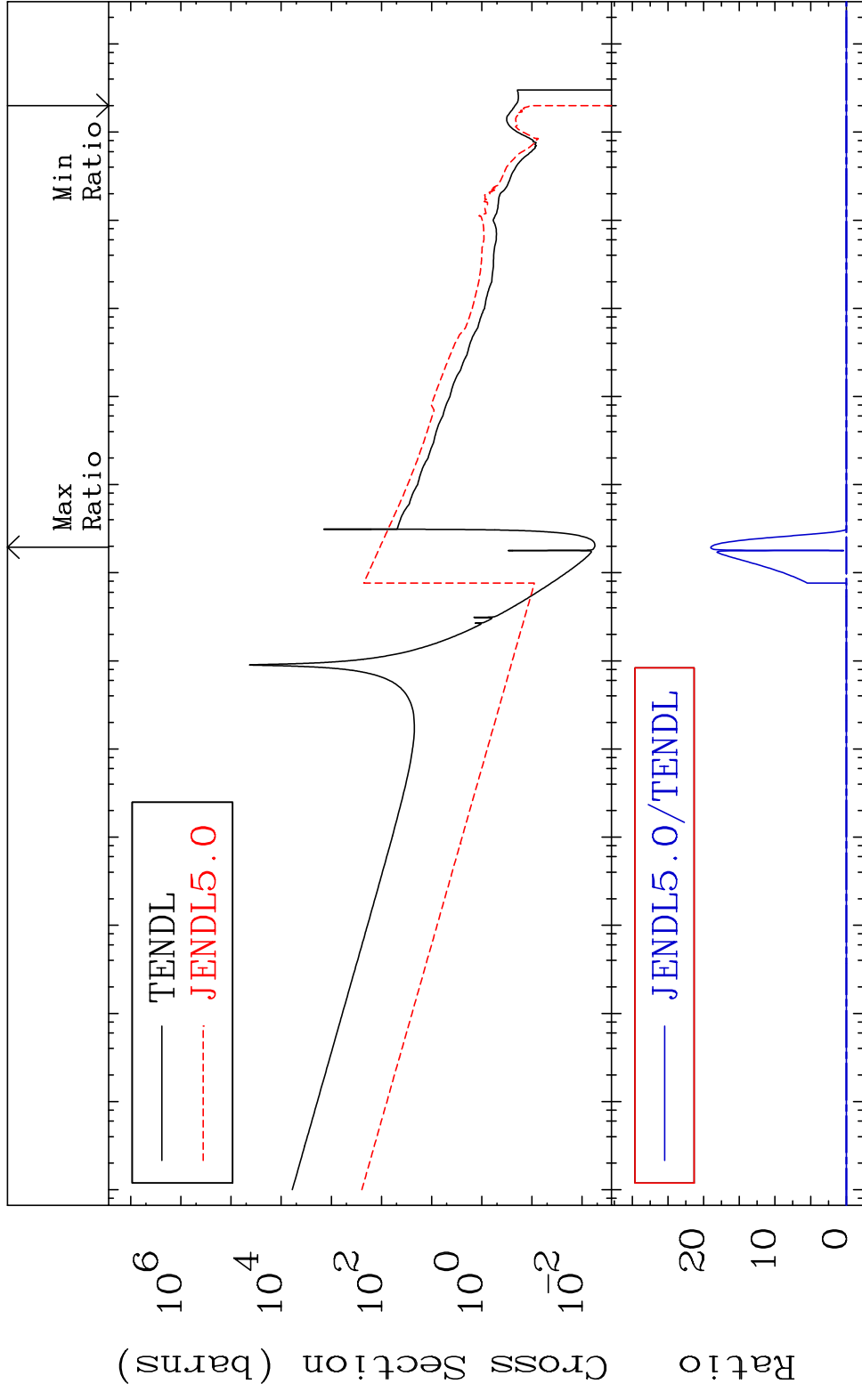
MAT 5143 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-127
 Cross Section -9999. To 51.81 %



MAT 5143

Kerma capture (mt102) 51-Sb-127

Cross Section -100.0 To 9999. %

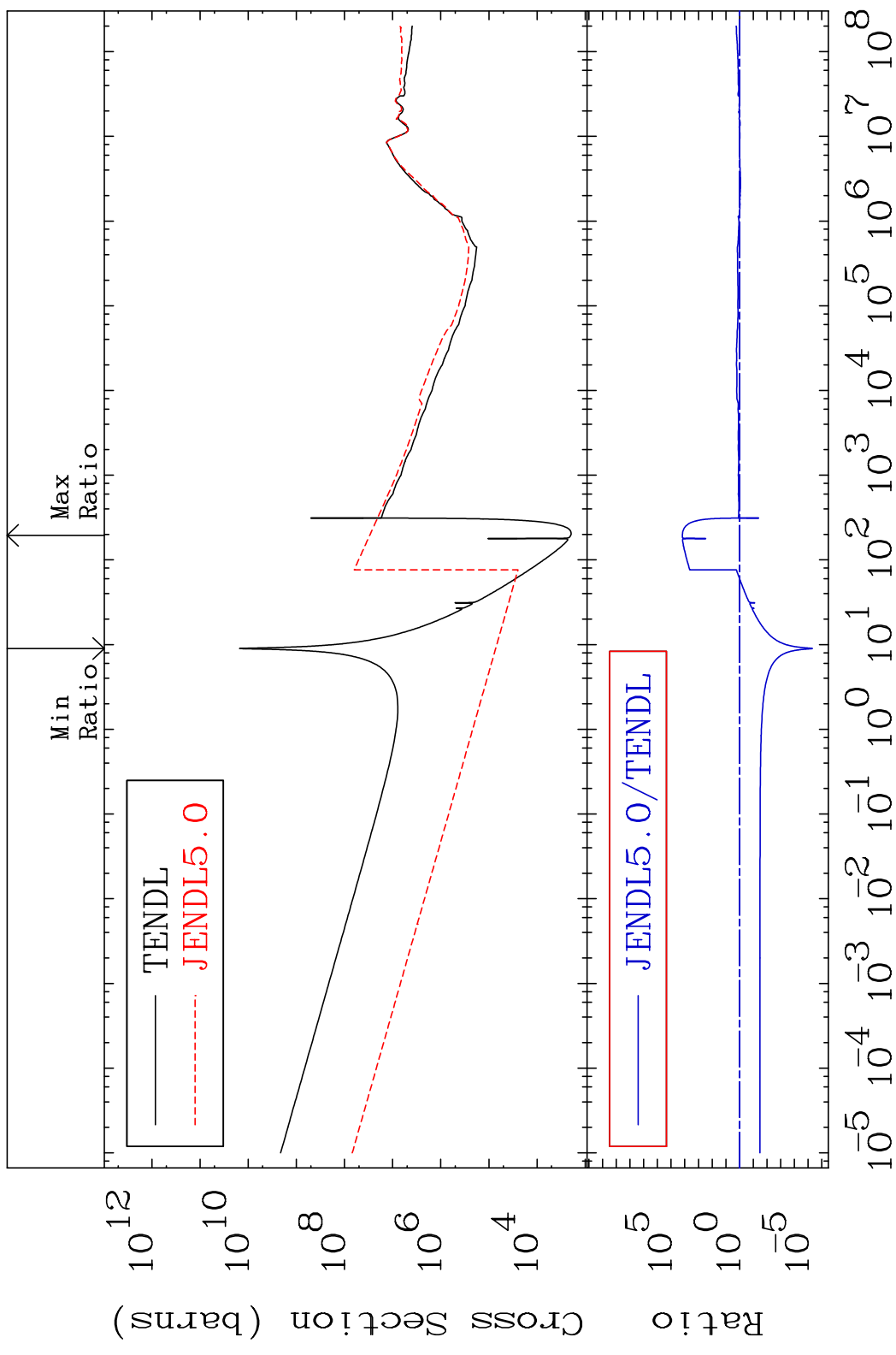


MAT 5143

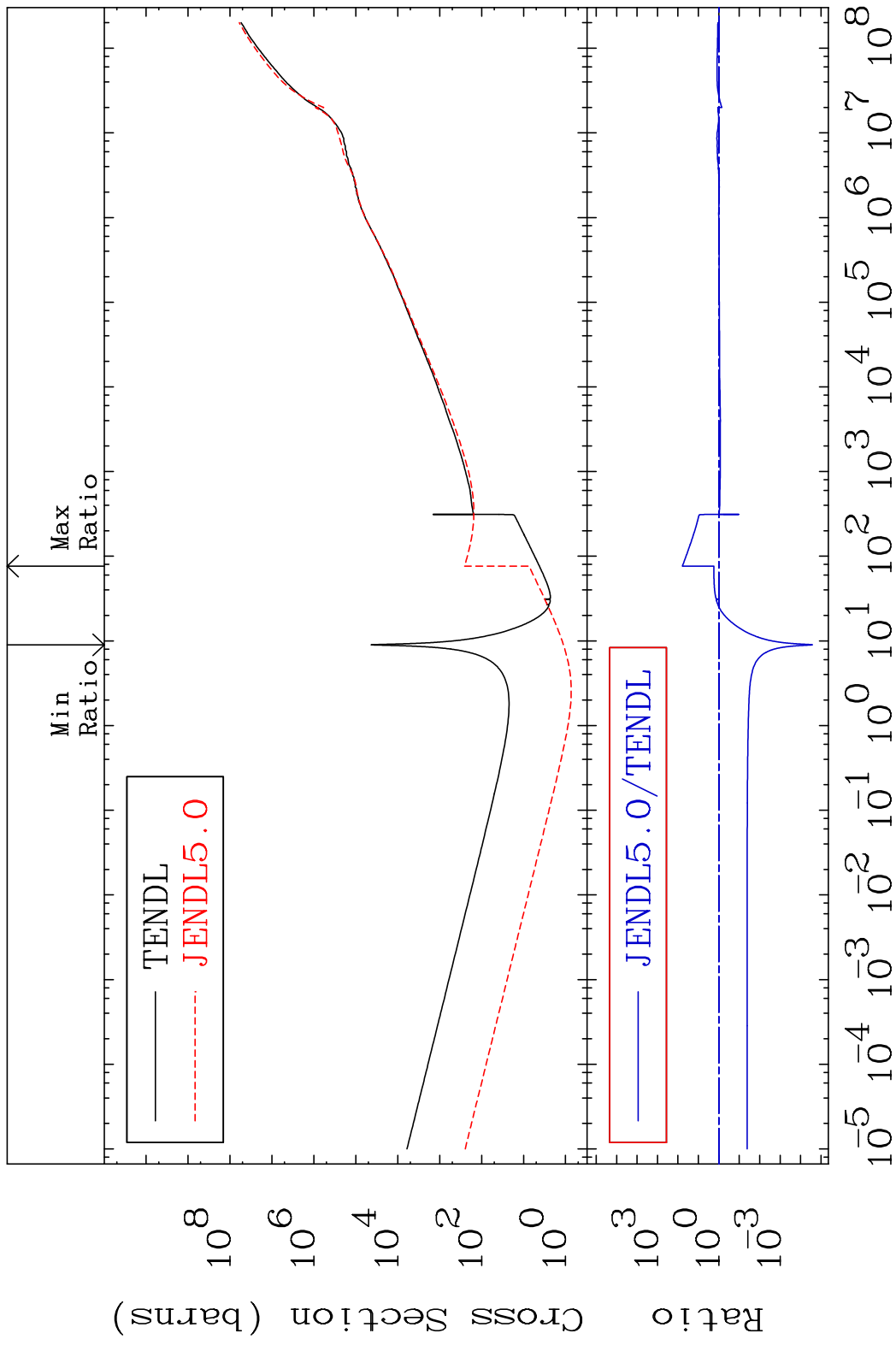
Total photon (eV-barns)

51-Sb-127

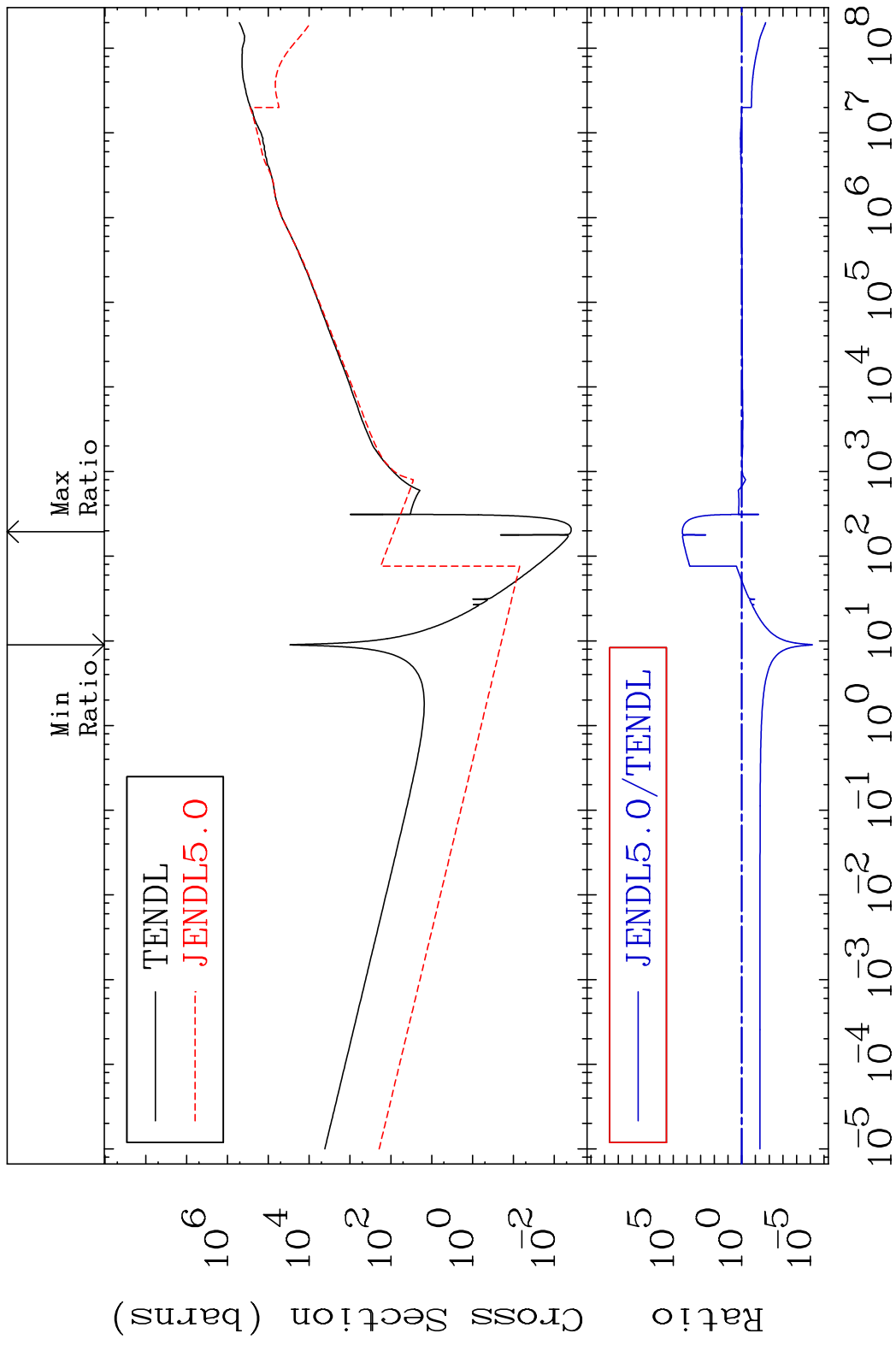
Cross Section -100.0 To 9999. %



MAT 5143 Total kinematic kerma (high limit) 51-Sb-127
Cross Section -100.0 To 5982. %



MAT 5143 Dpa total (eV-barns) 51-Sb-127
 Cross Section -100.0 To 9999. %

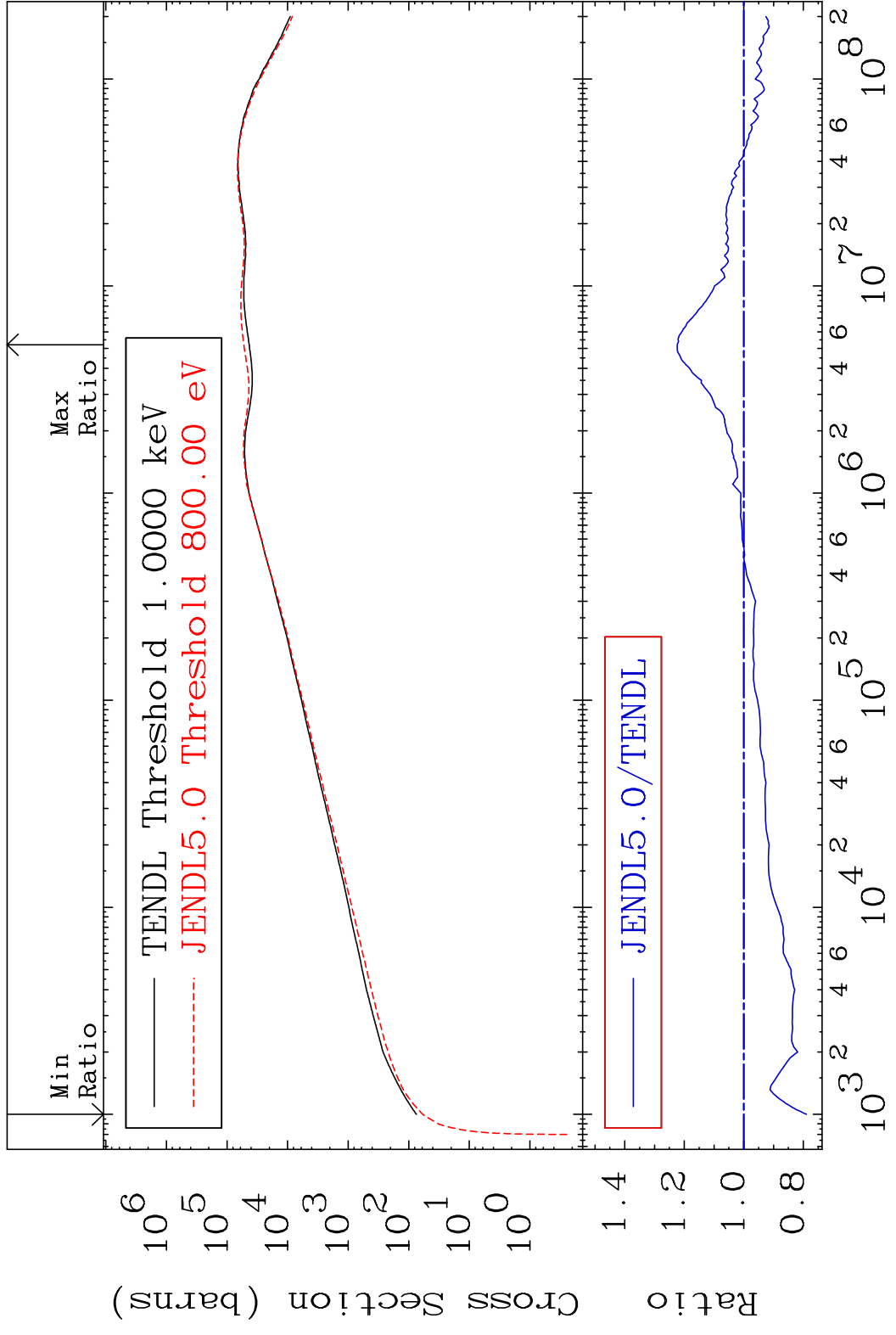


MAT 5143

Dpa elastic (mt2)

51-Sb-127

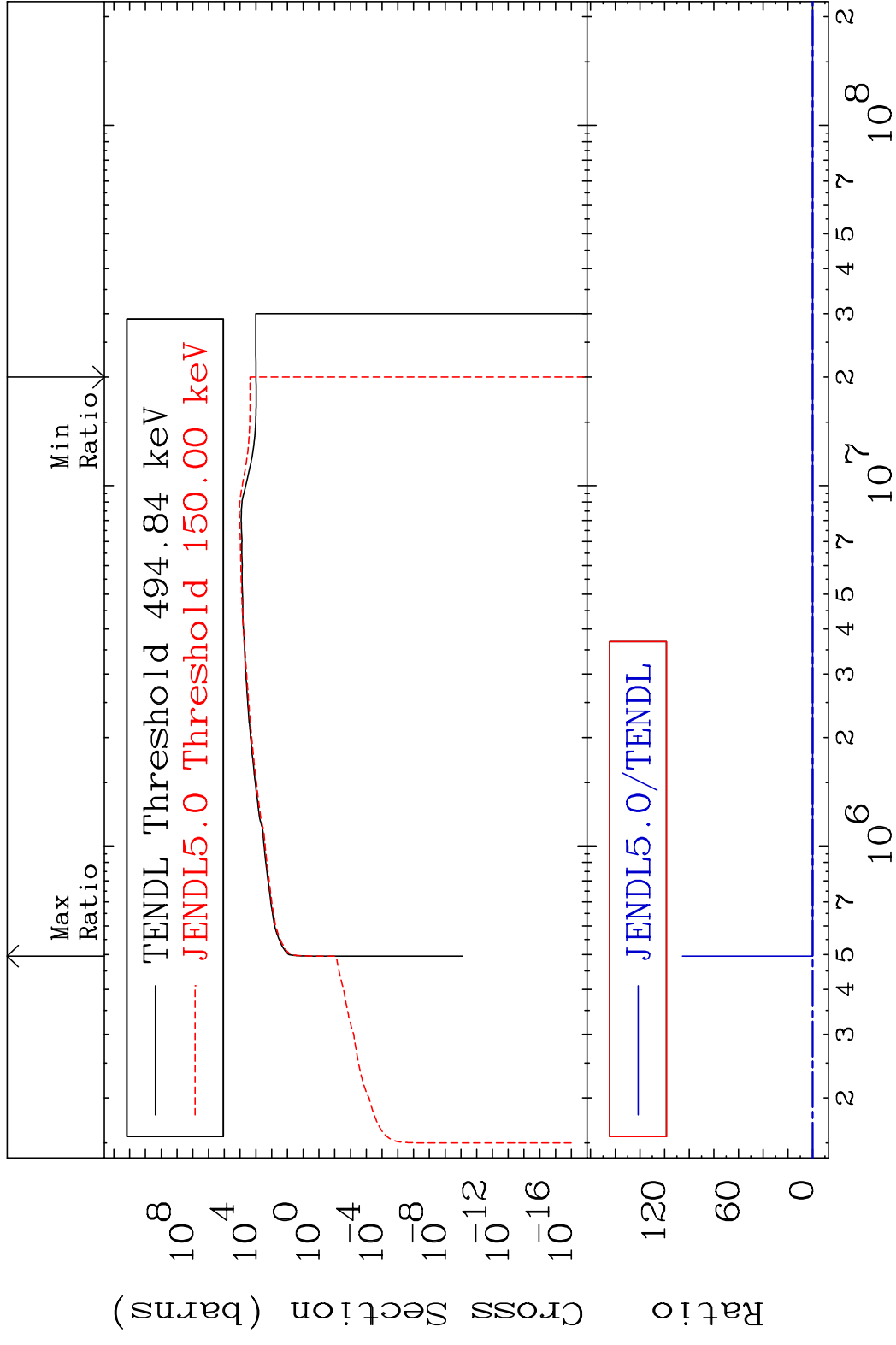
Cross Section -21.04 To 22.37 %



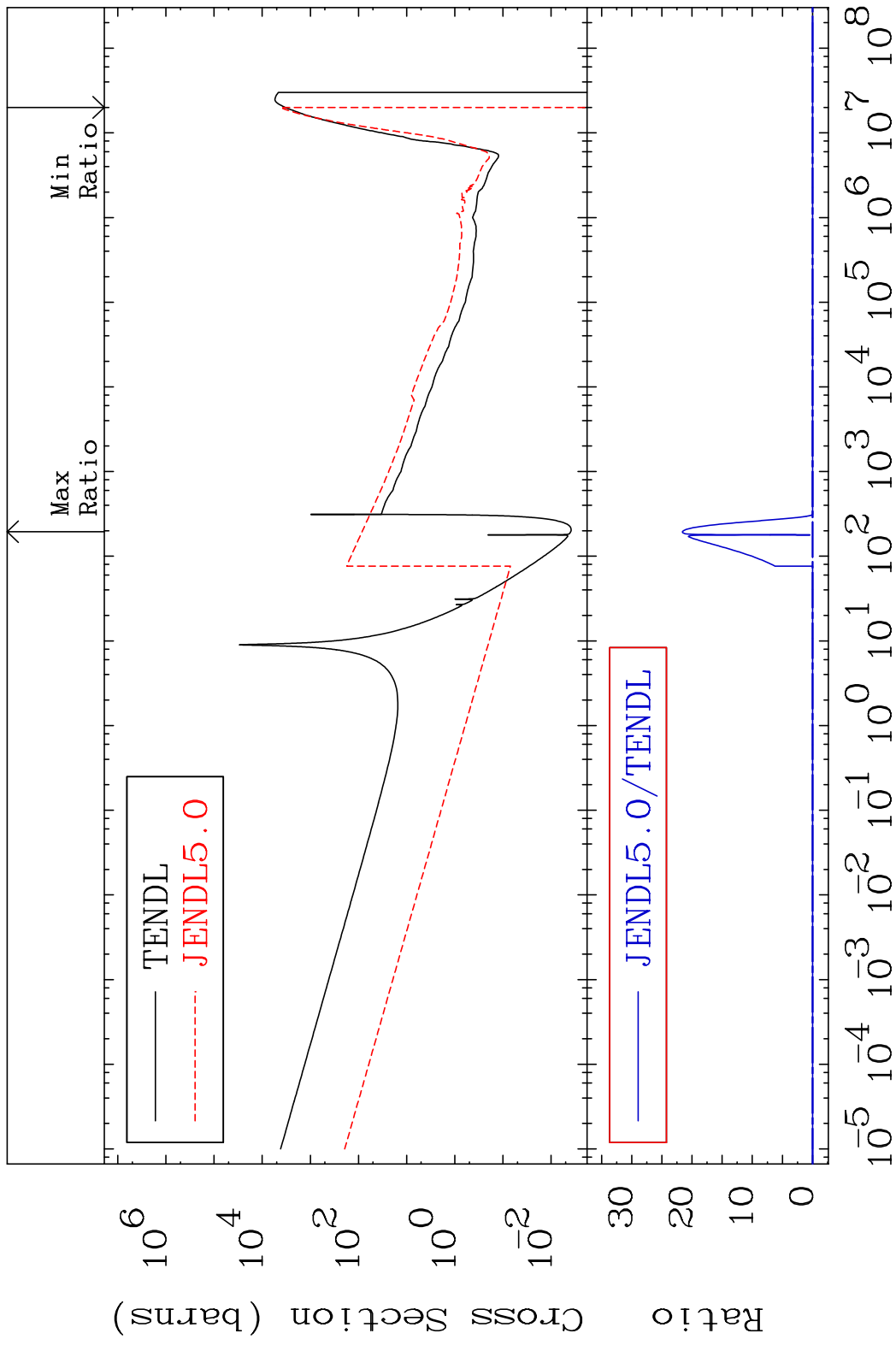
MAT 5143

Dpa inelastic (mt51-91) 51-Sb-127

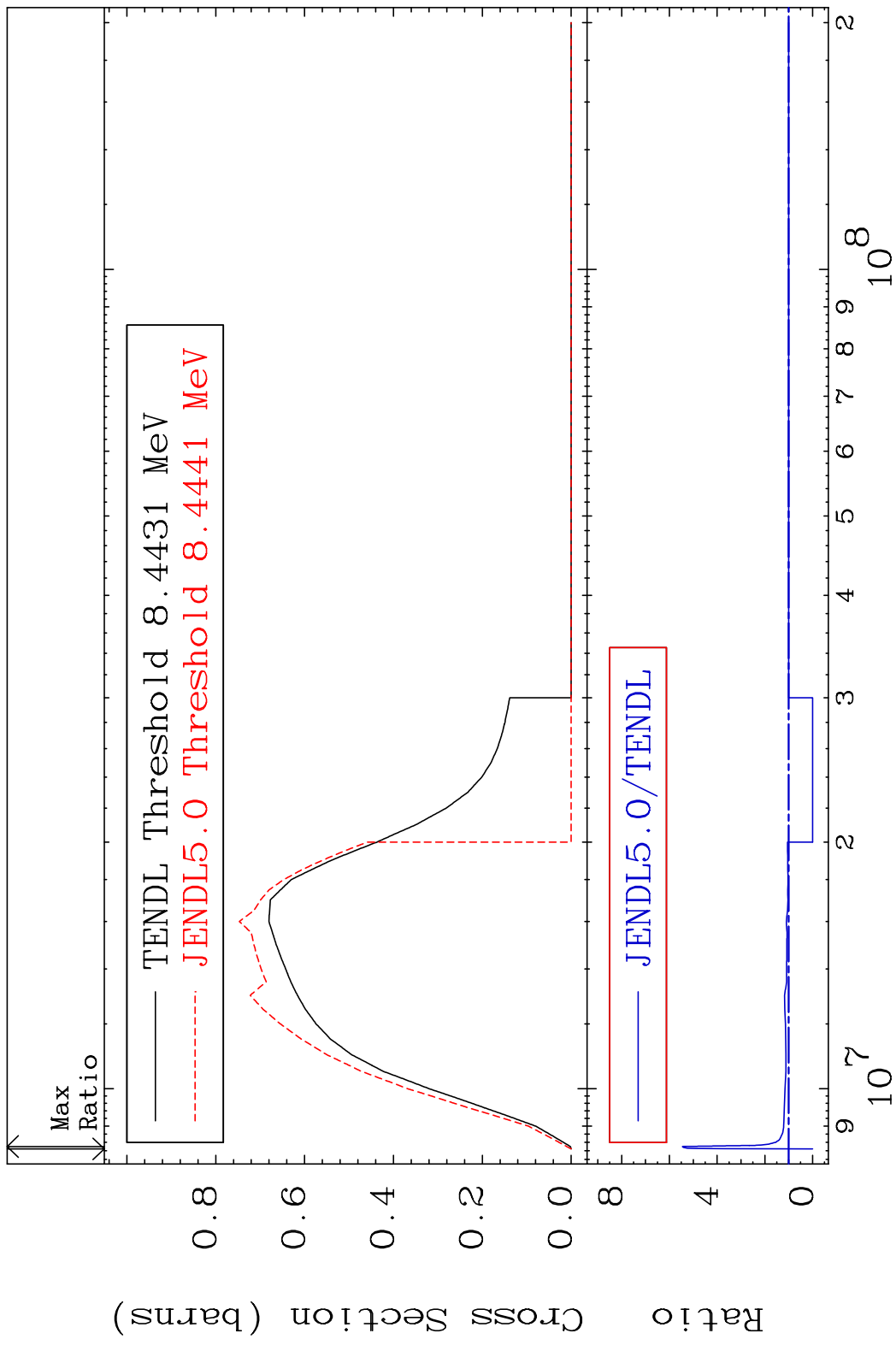
Cross Section -100.0 To 9999. %



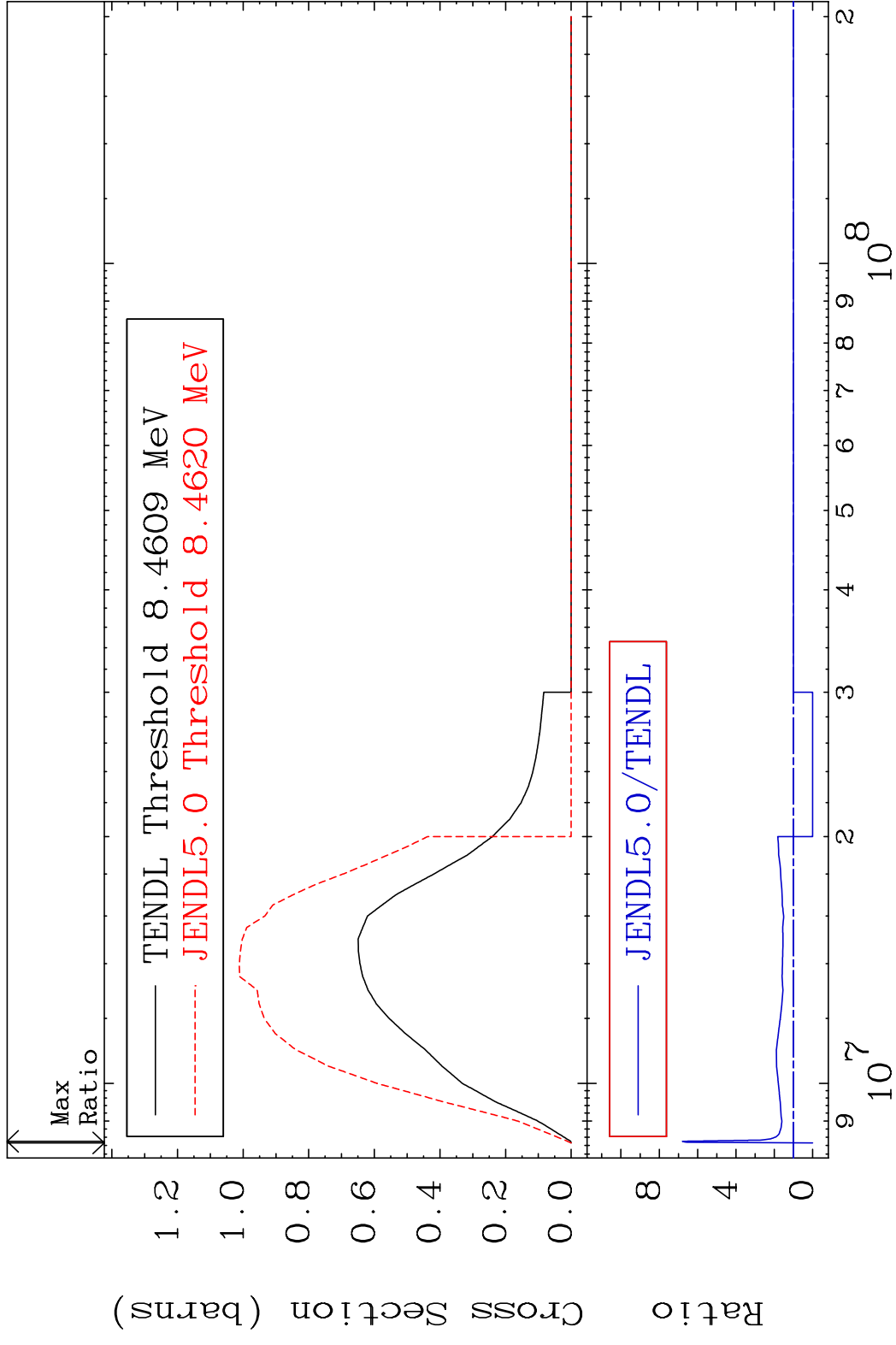
MAT 5143 Dpa disappearance (mt102 -120) 51-Sb-127
 Cross Section -100.0 To 9999. %

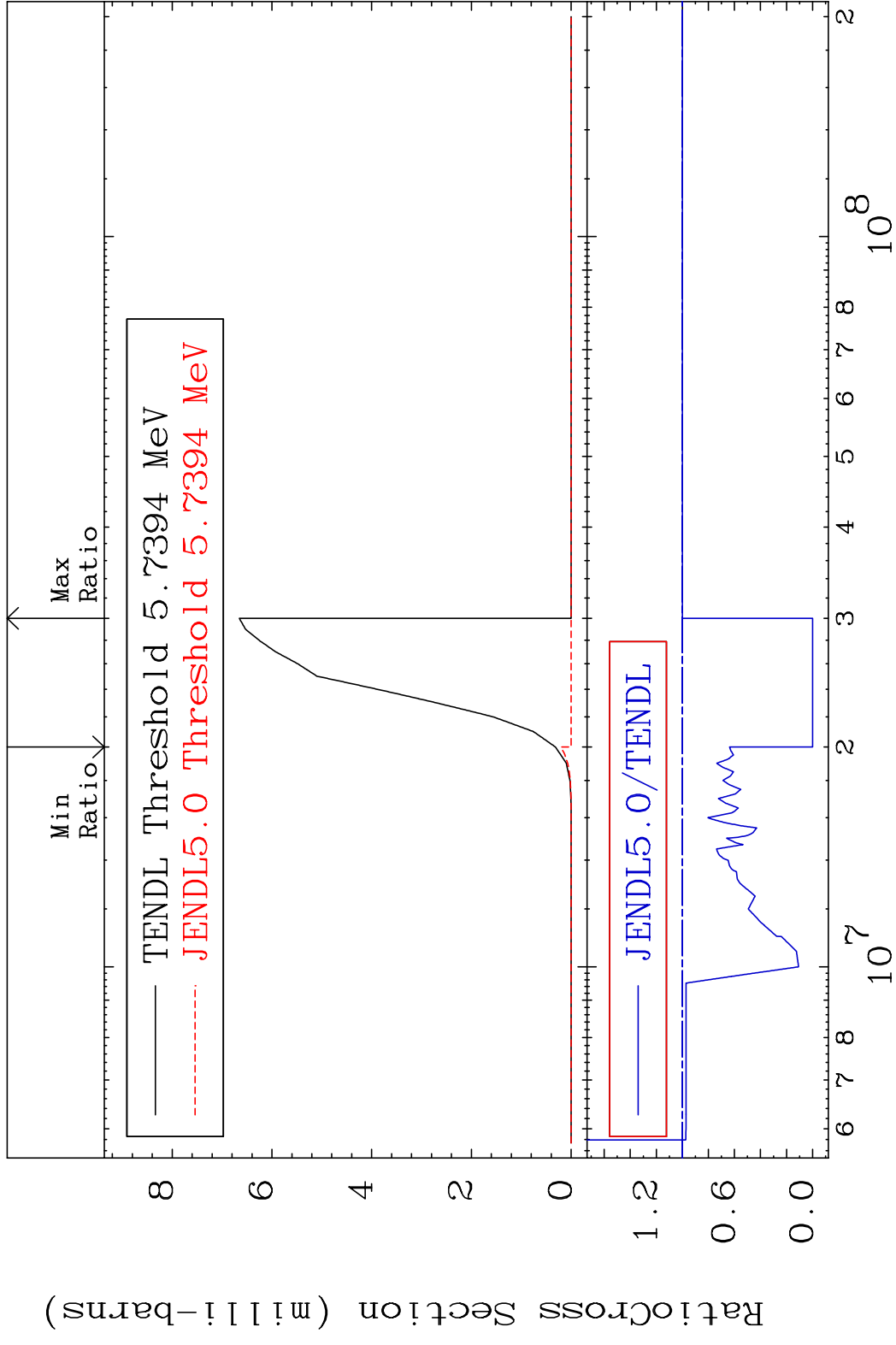


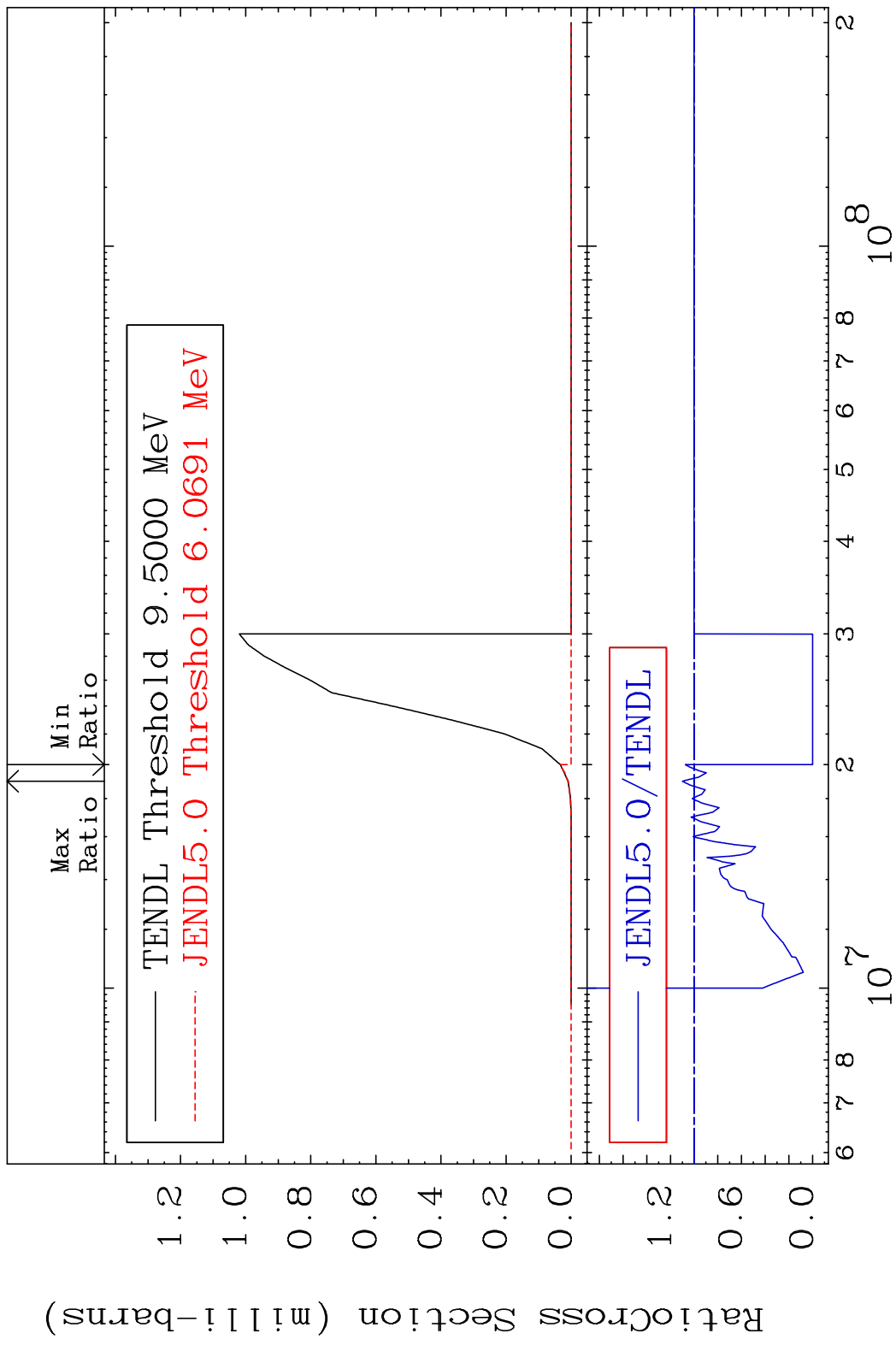
MAT 5143 (n,2n):51-Sb-126g 51-Sb-127
 Radionuclide Production Cross Section Ratio 445.7 %

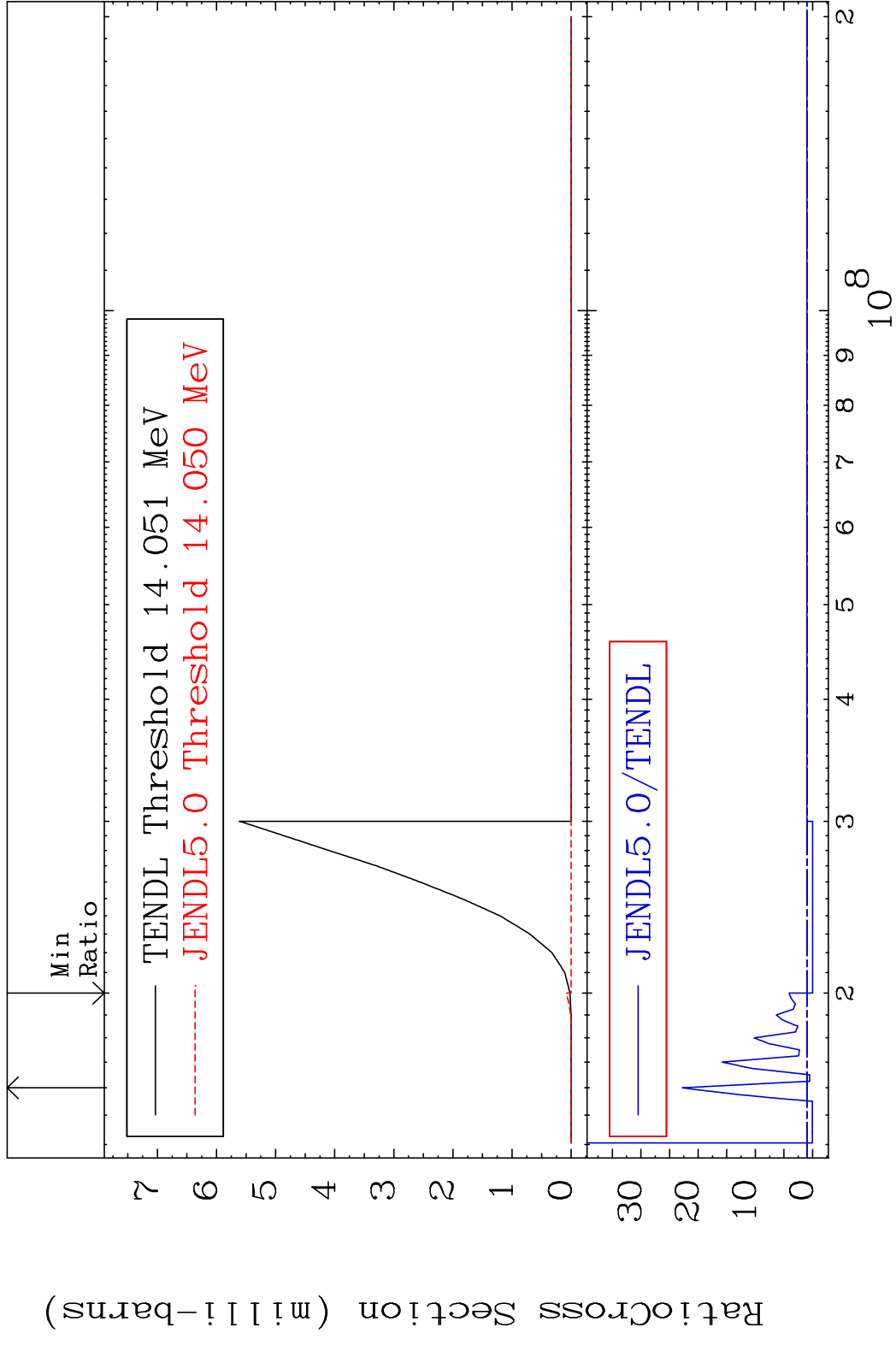


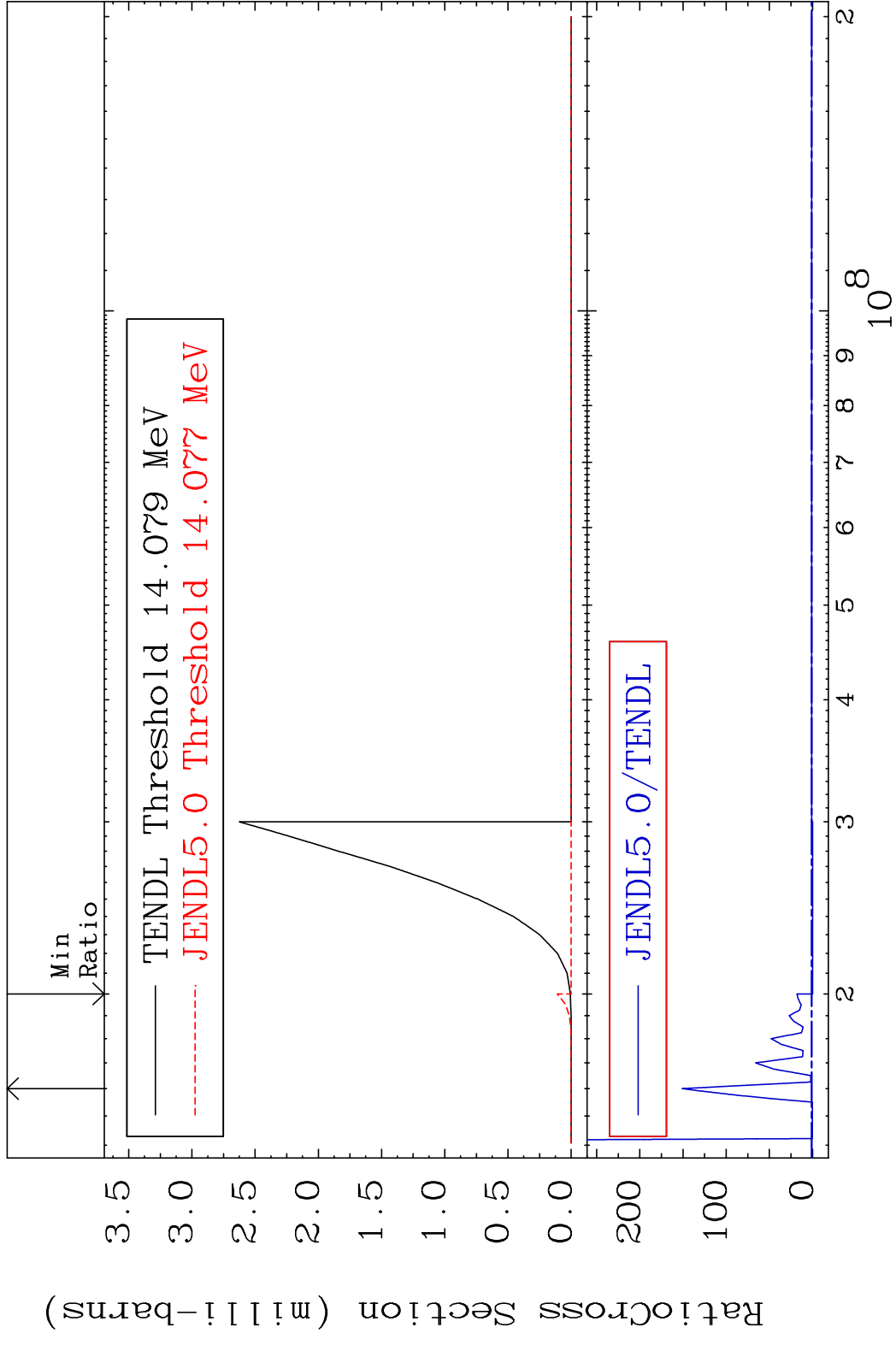
MAT 5143 (n,2n):51-Sb-126m1 51-Sb-127
 Radionuclide Production Cross Section 180.0 dth 579.4 %



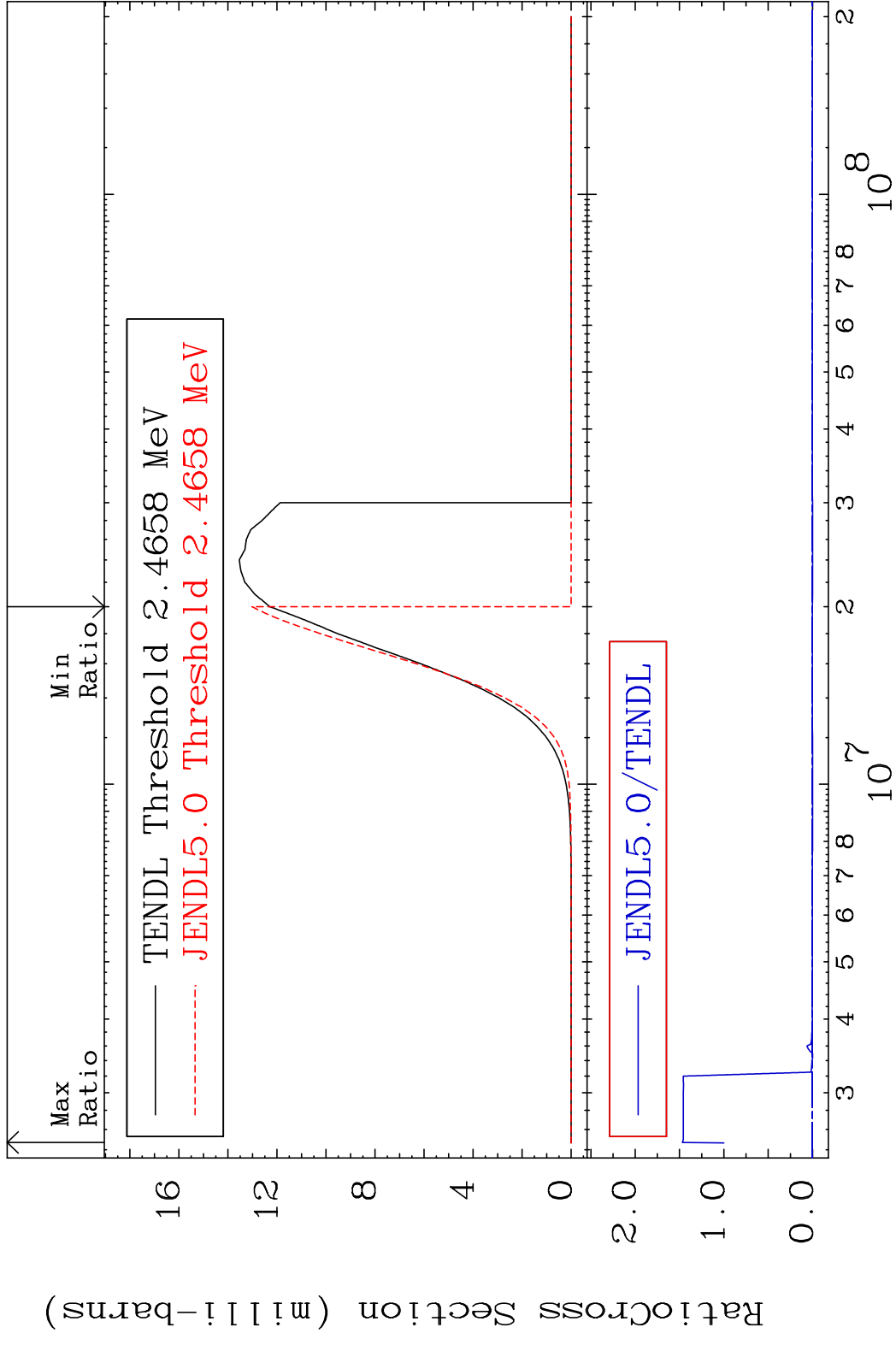




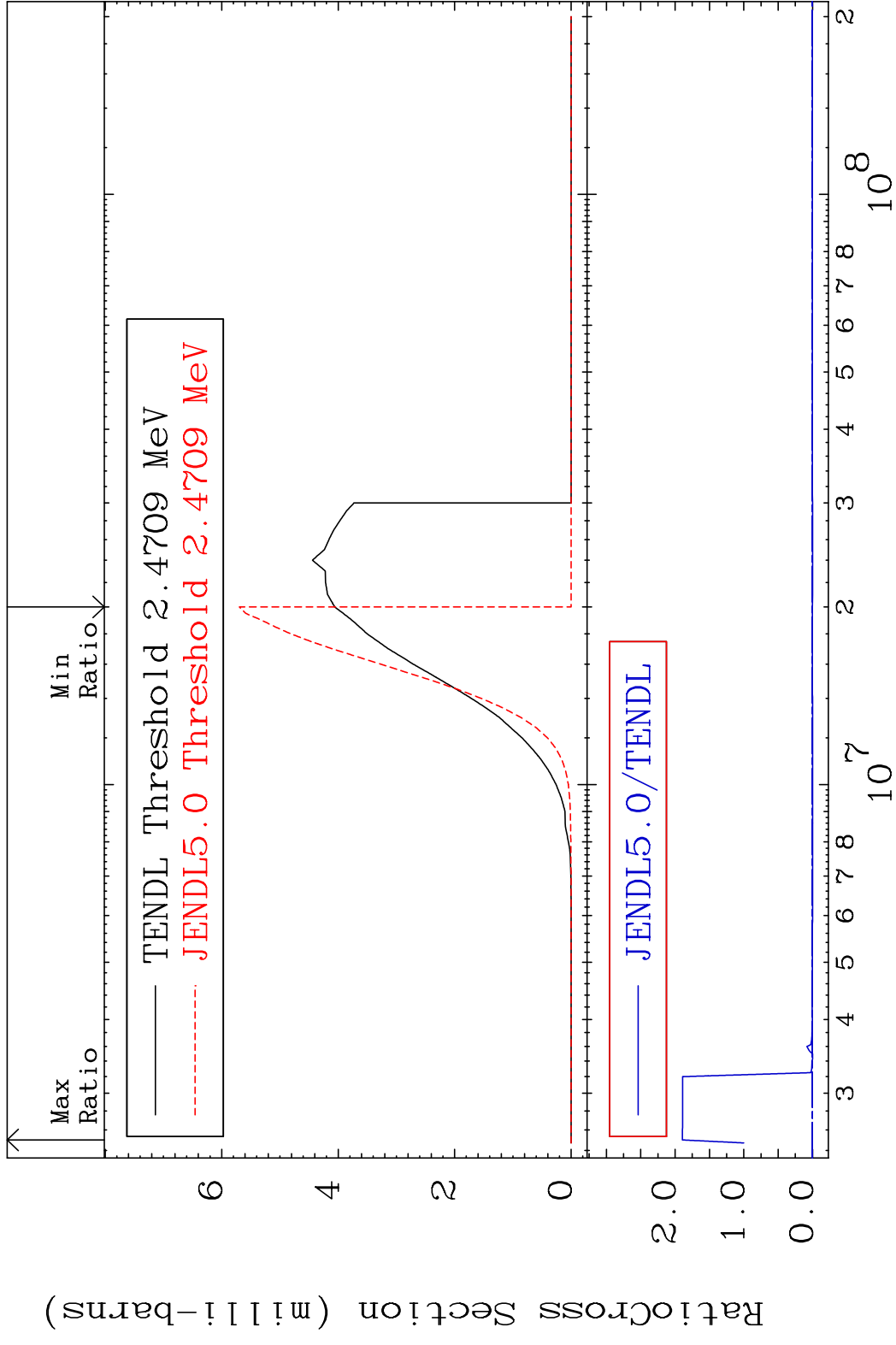


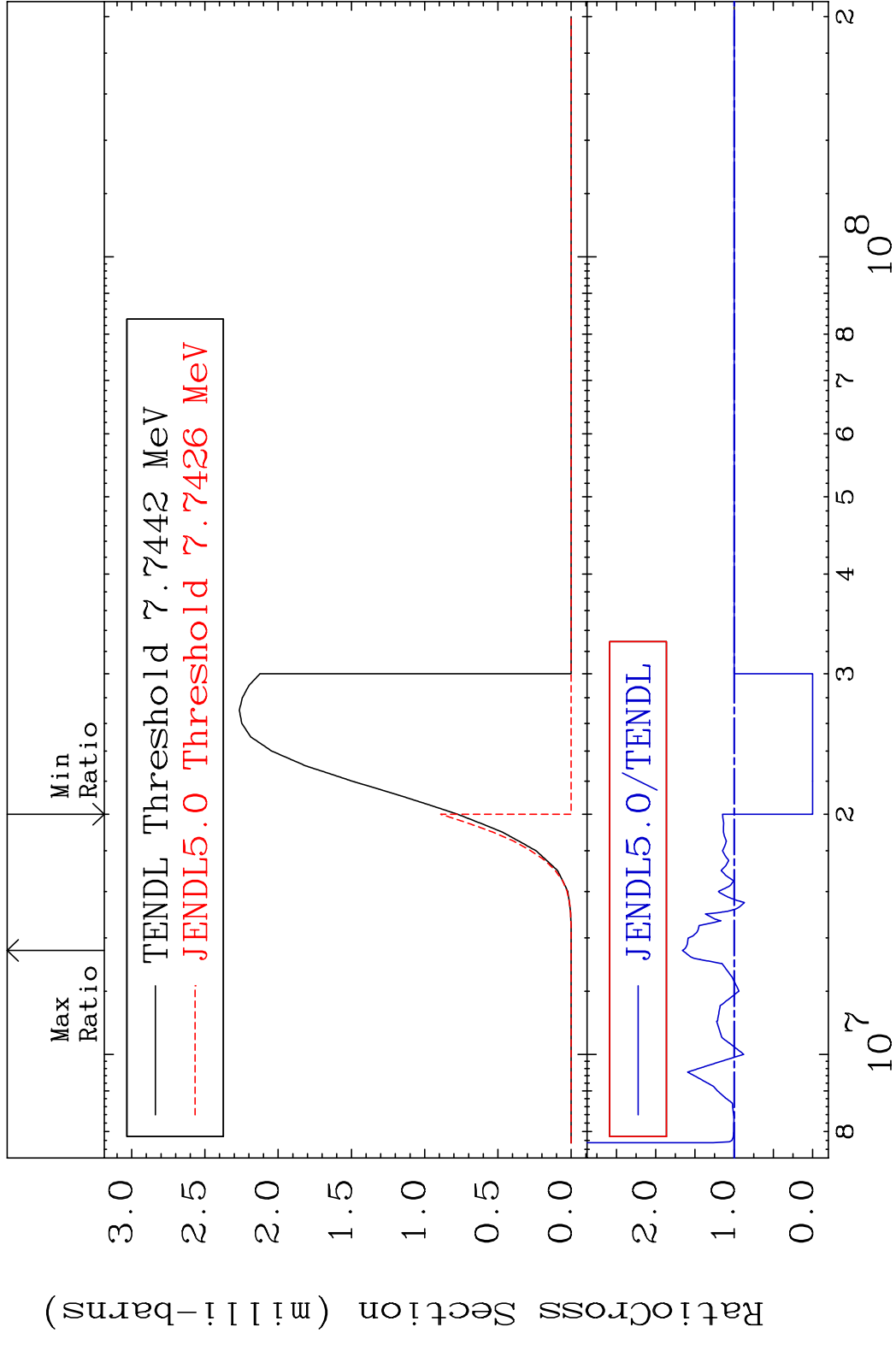


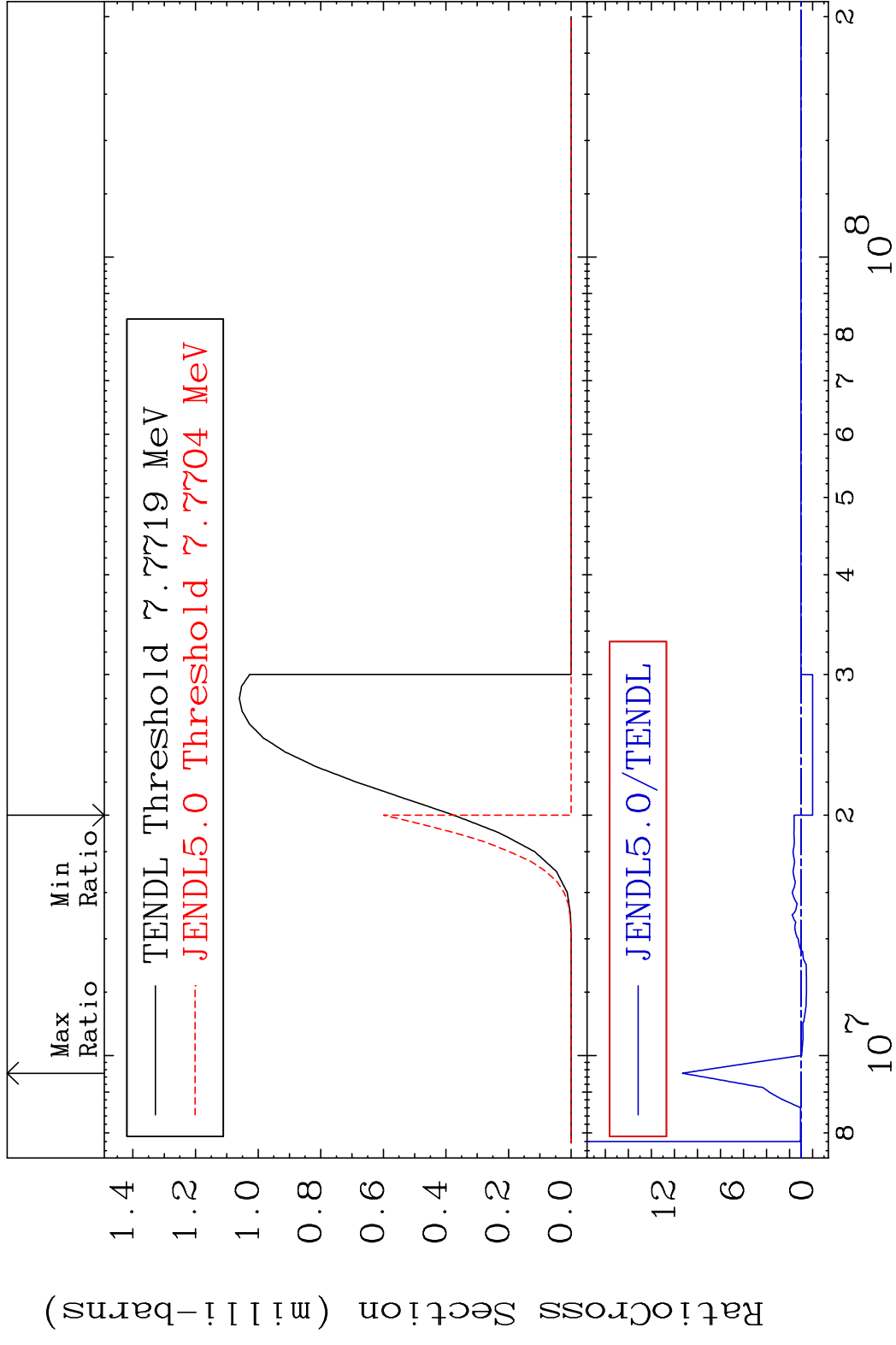
MAT 5143 (n,p):50-Sn-127 51-Sb-127
 Radionuclide Production Cross Section (%)

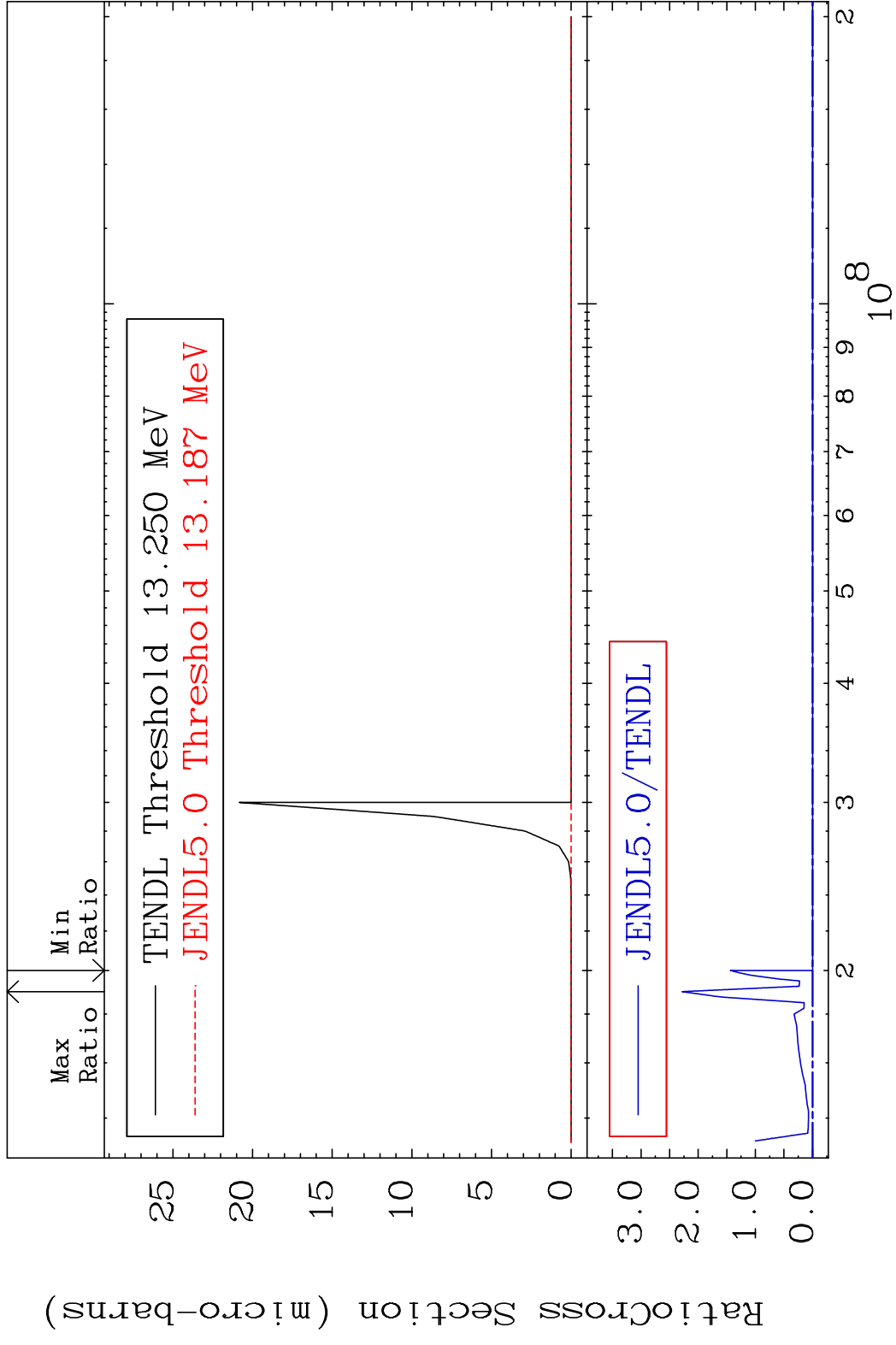


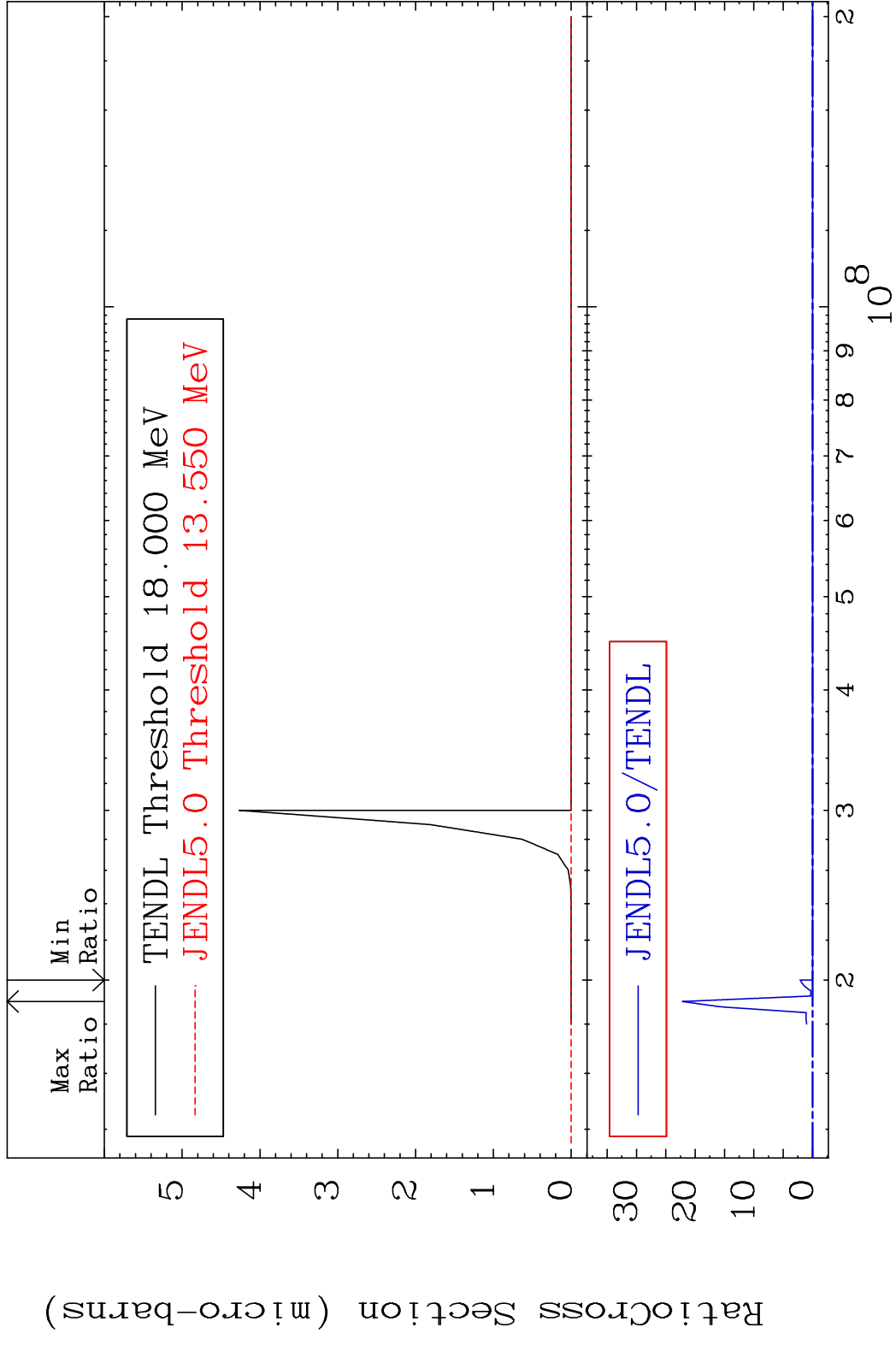
MAT 5143 (n, p):50-Sn-127m1 51-Sb-127
 Radionuclide Production Cross Section (%)

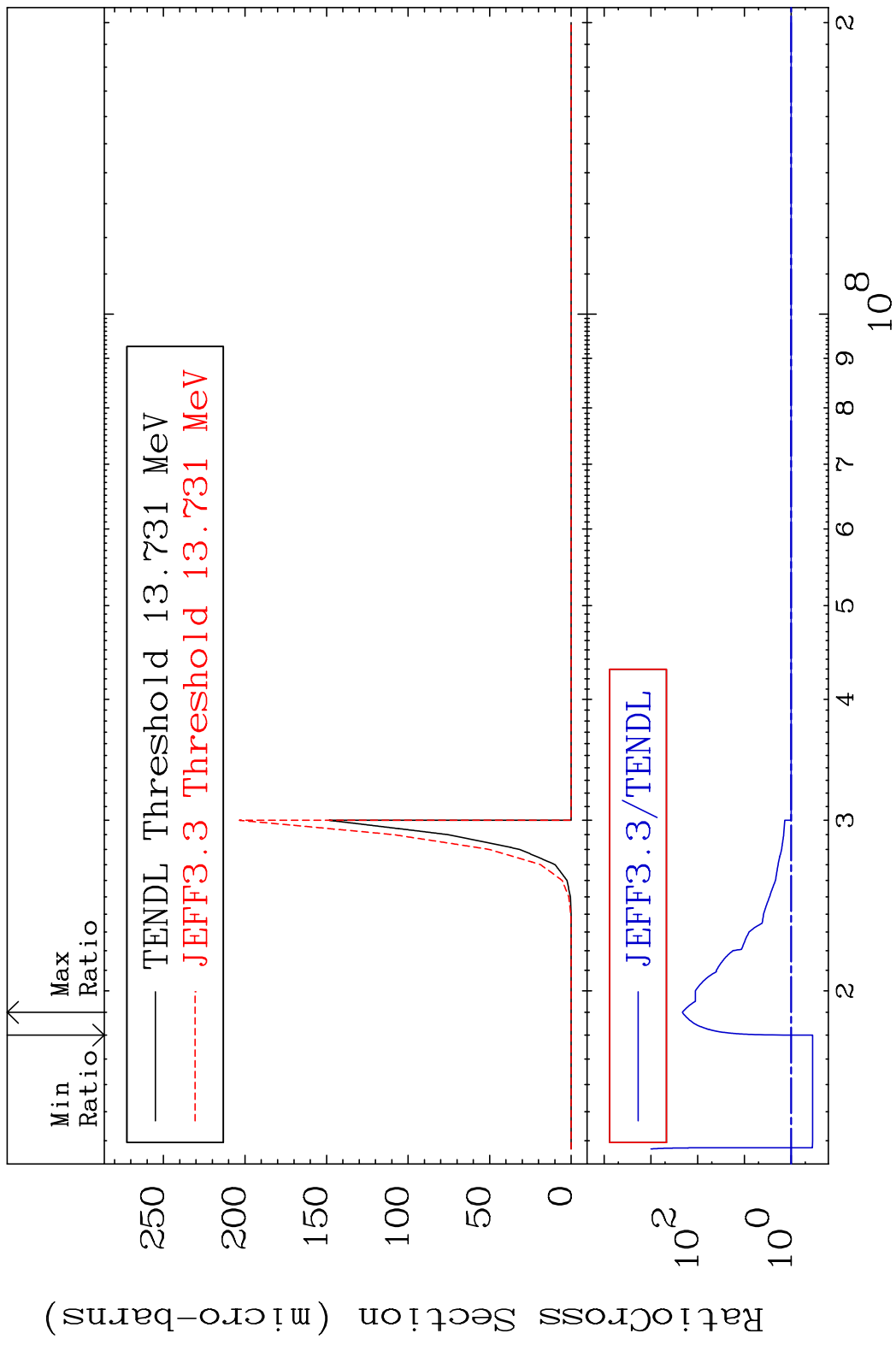


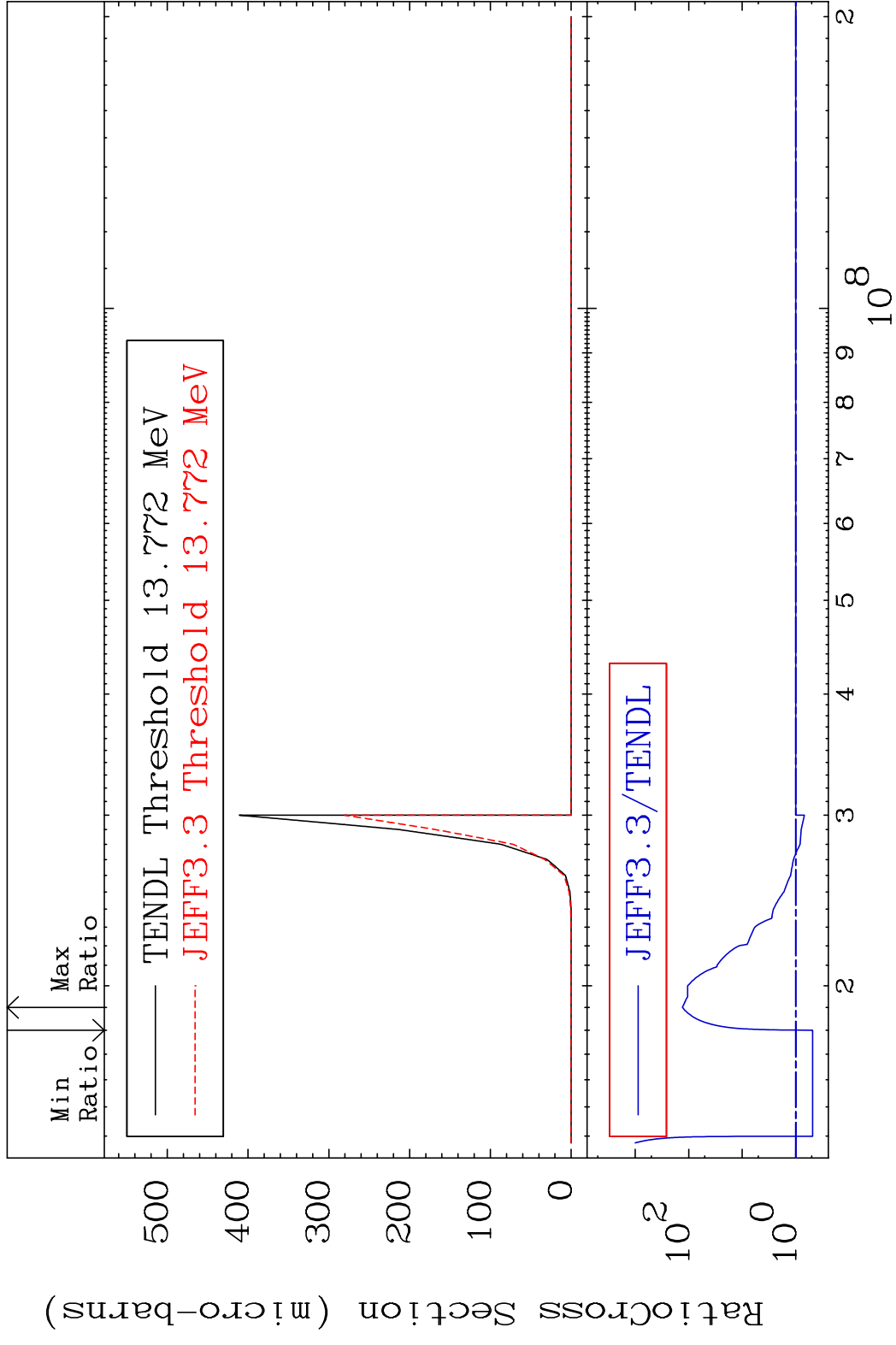


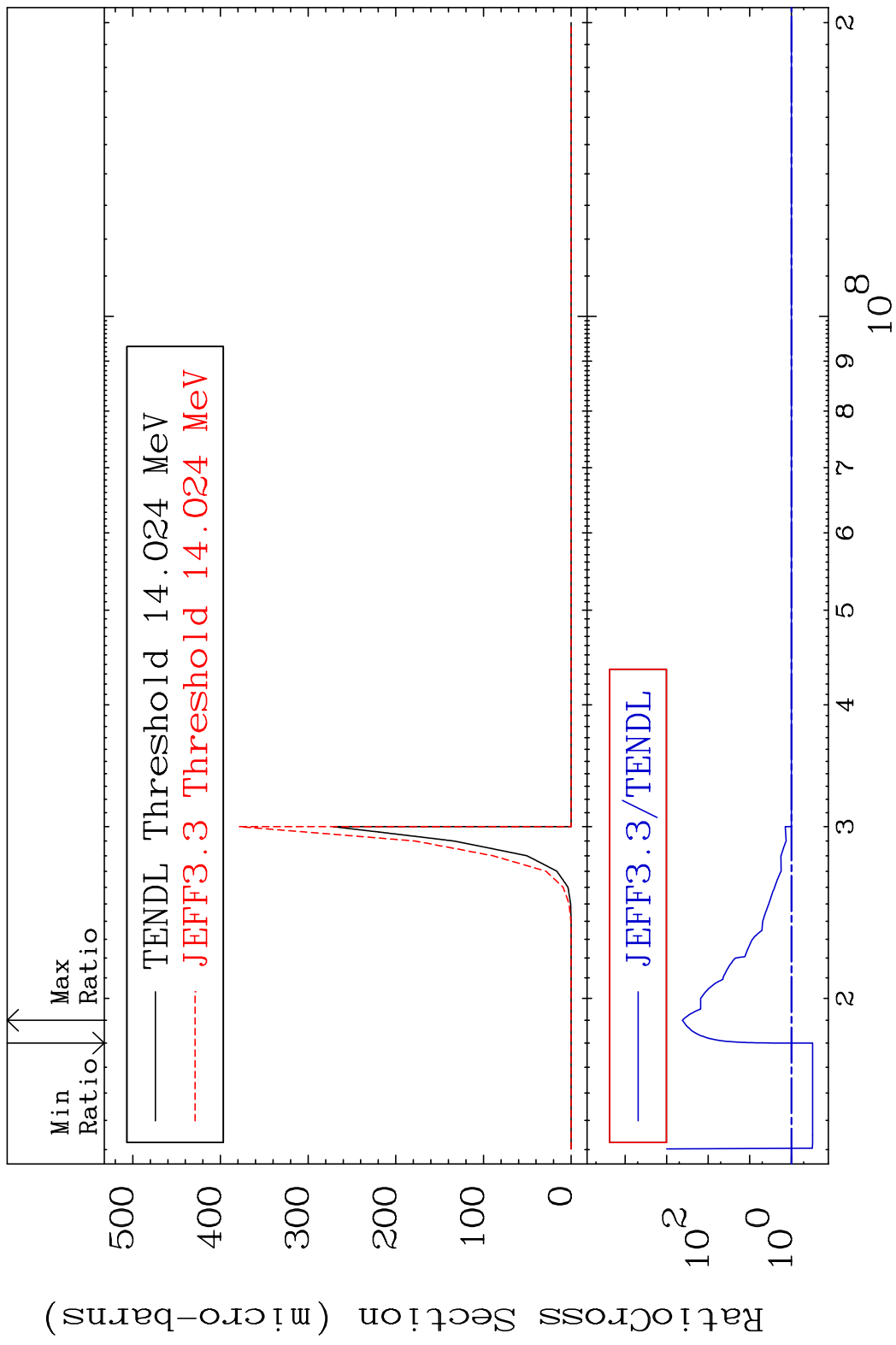


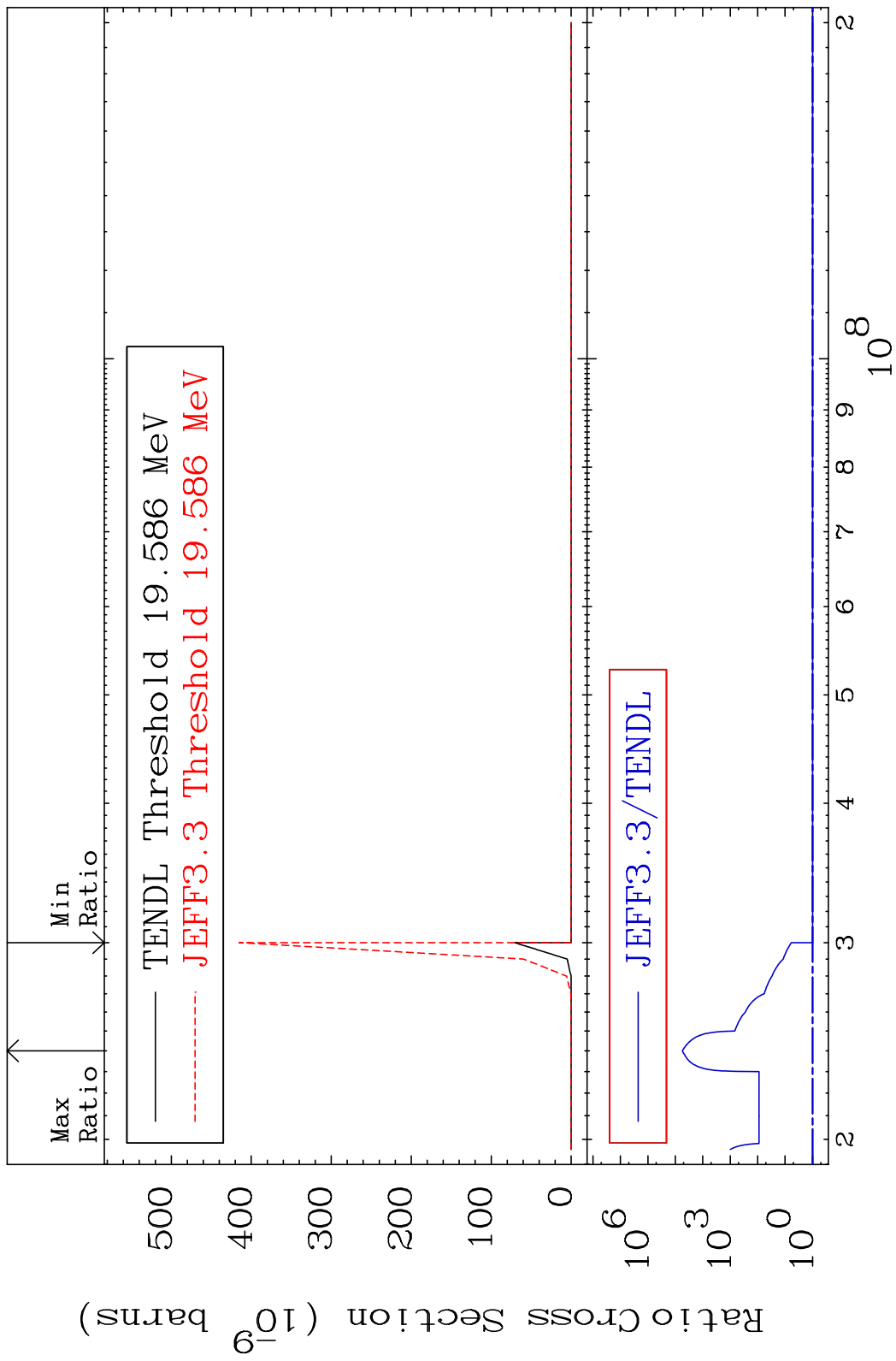


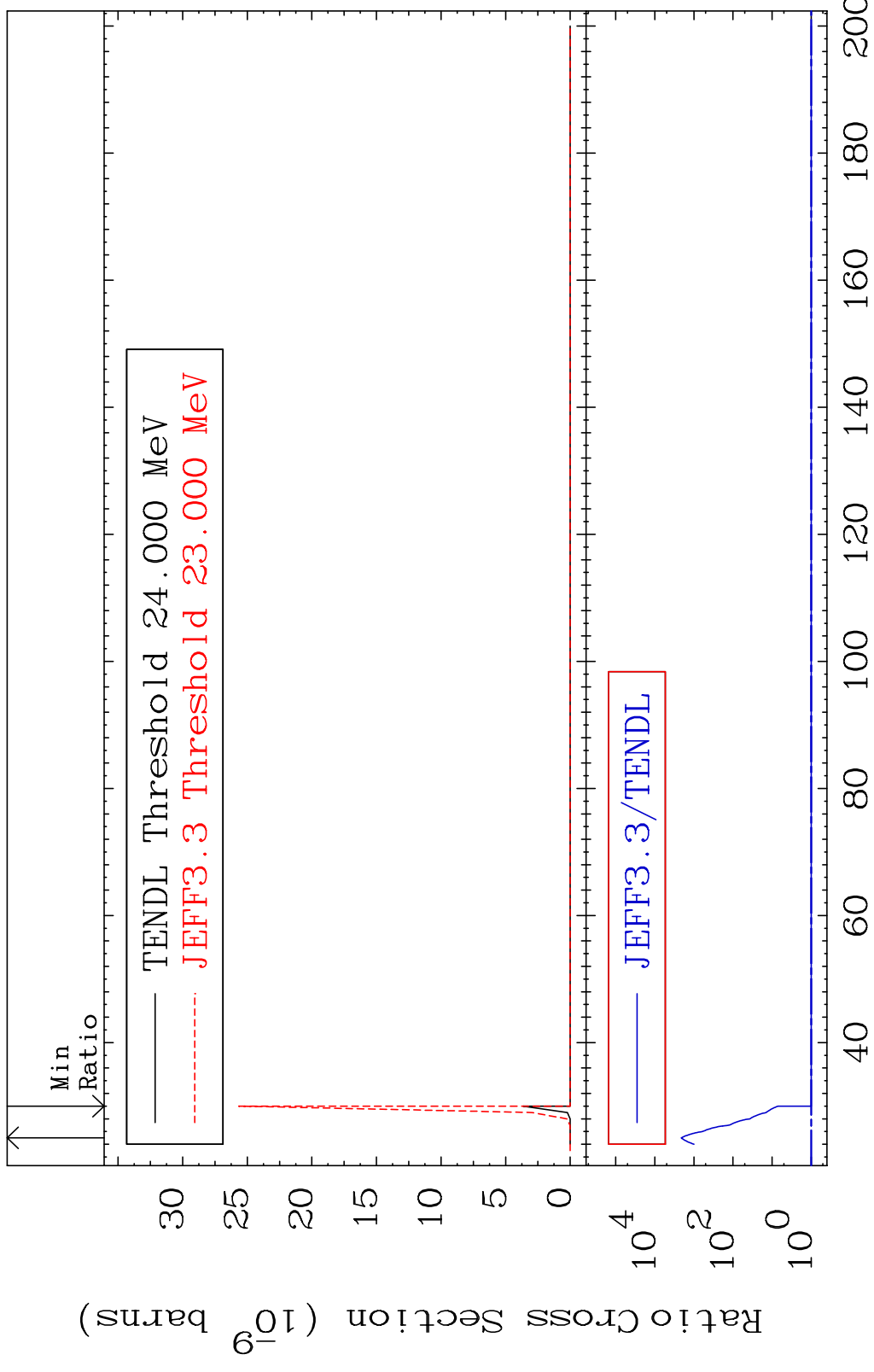


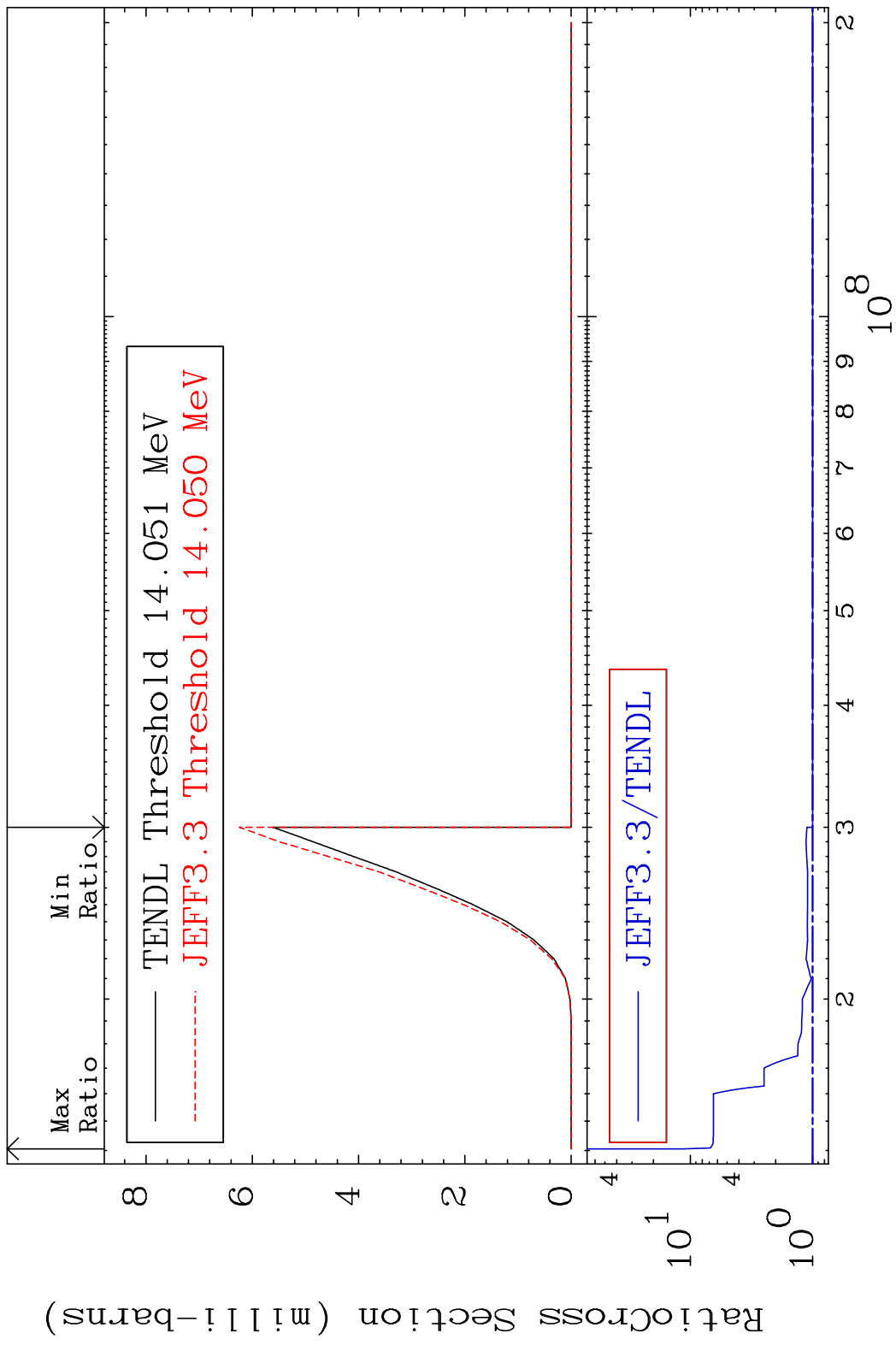


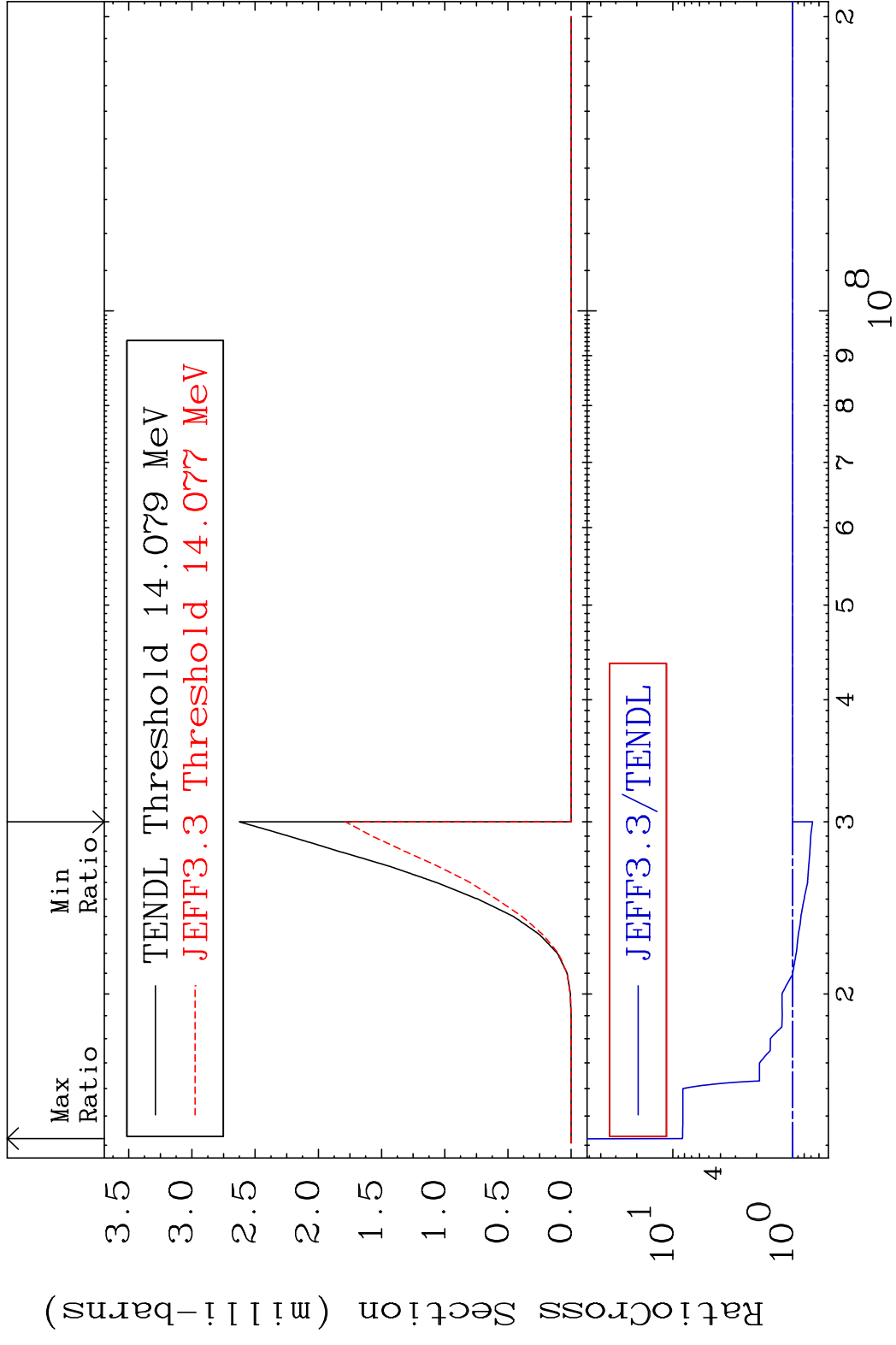


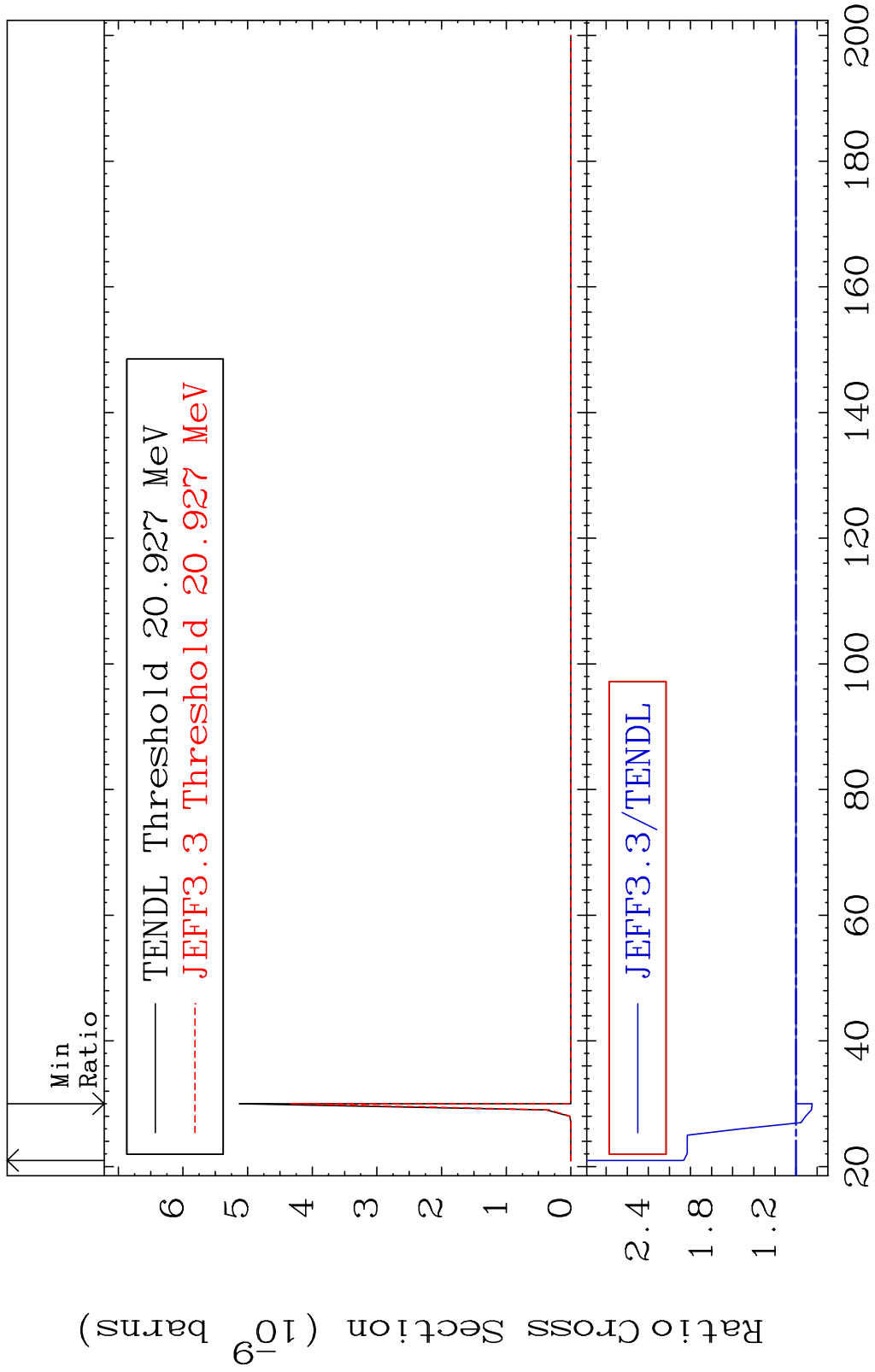


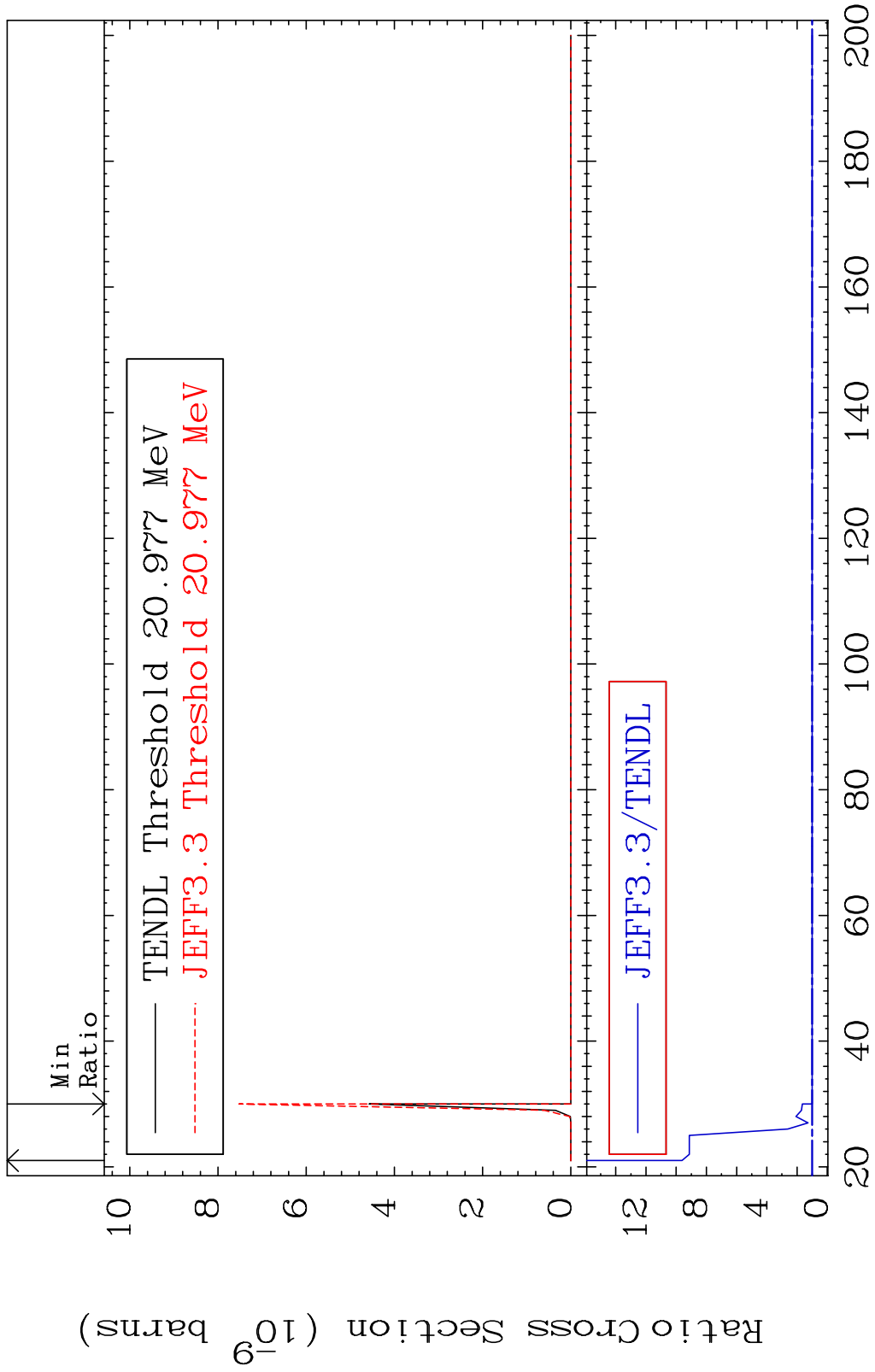


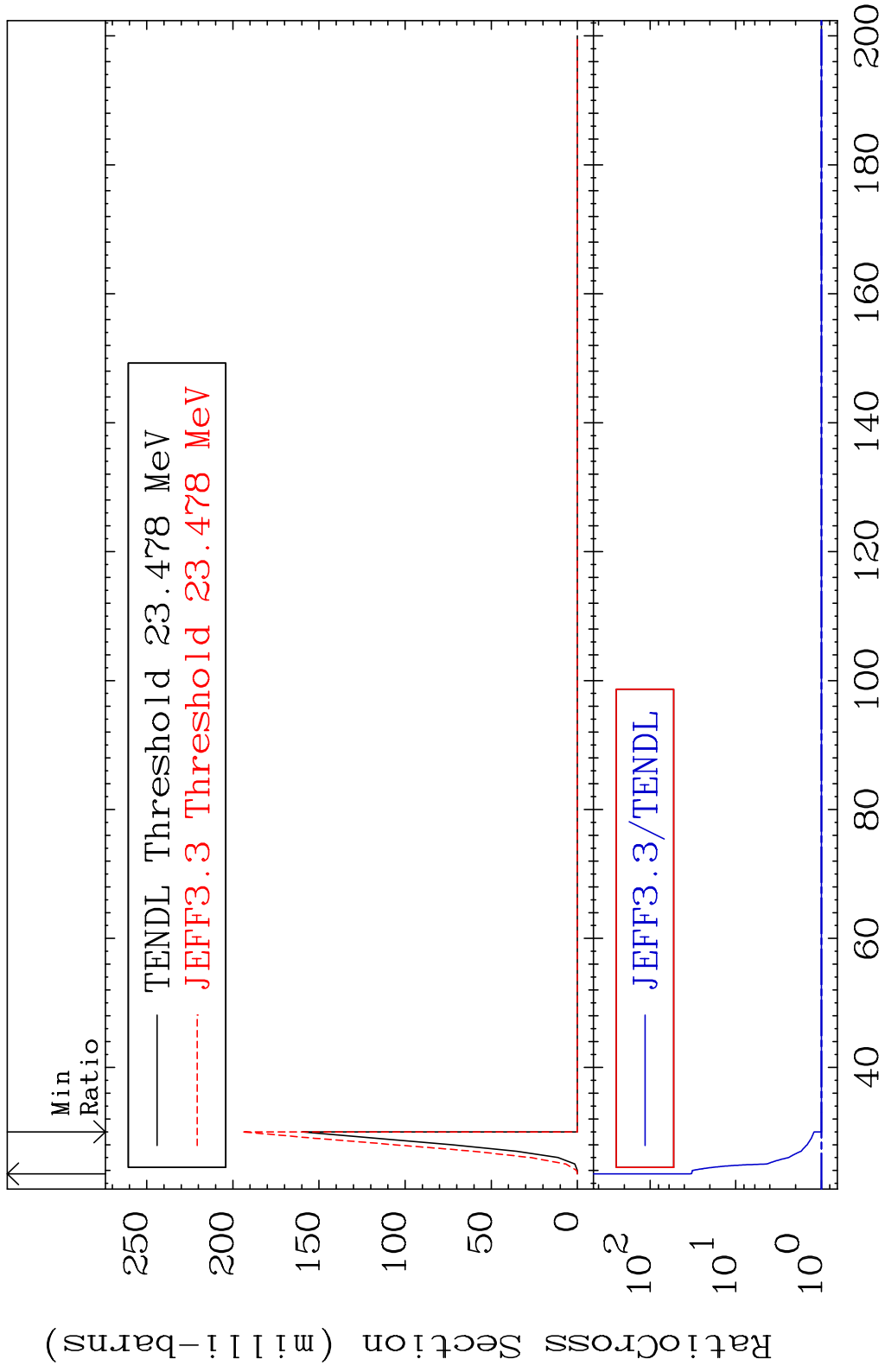


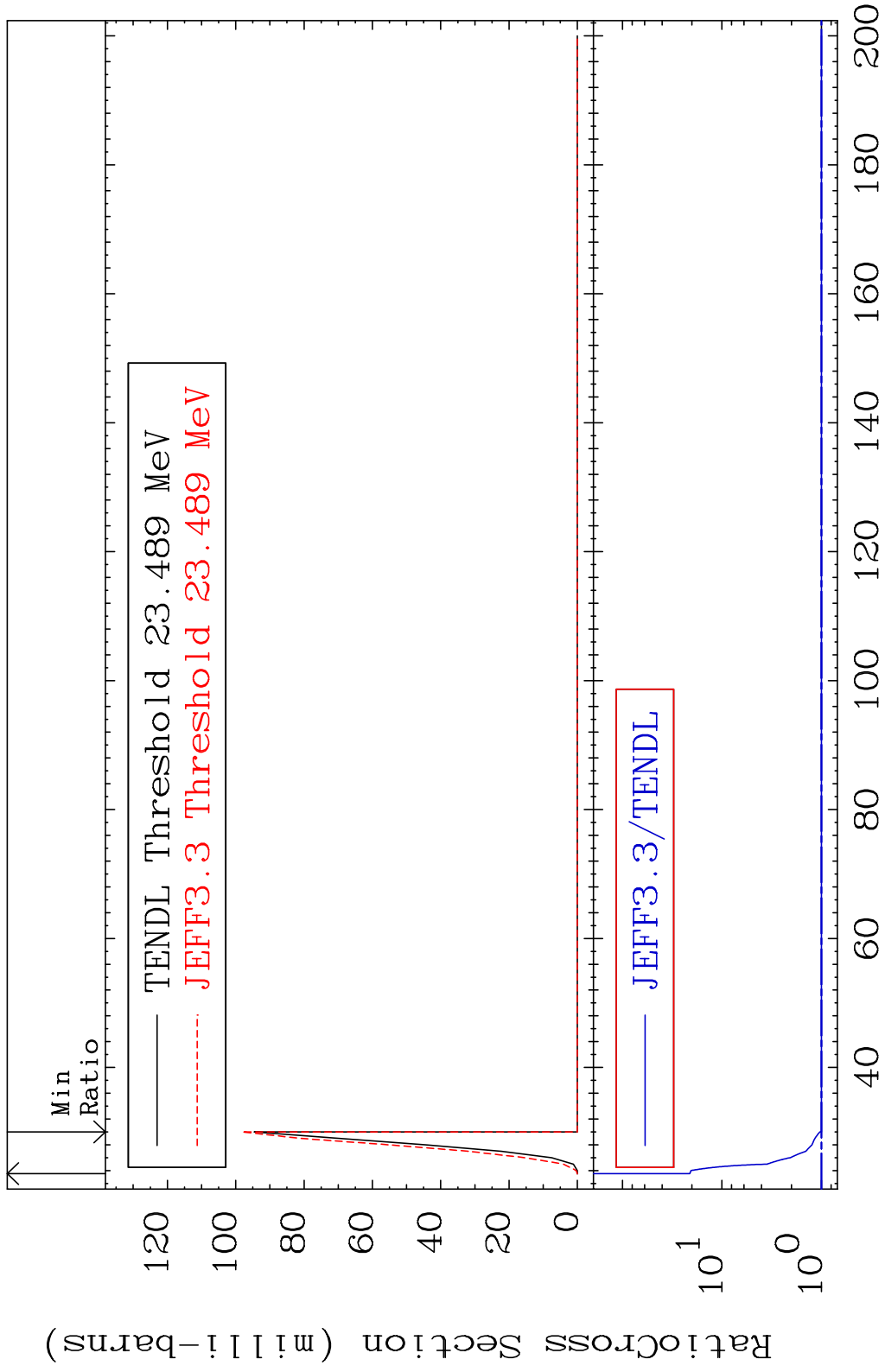


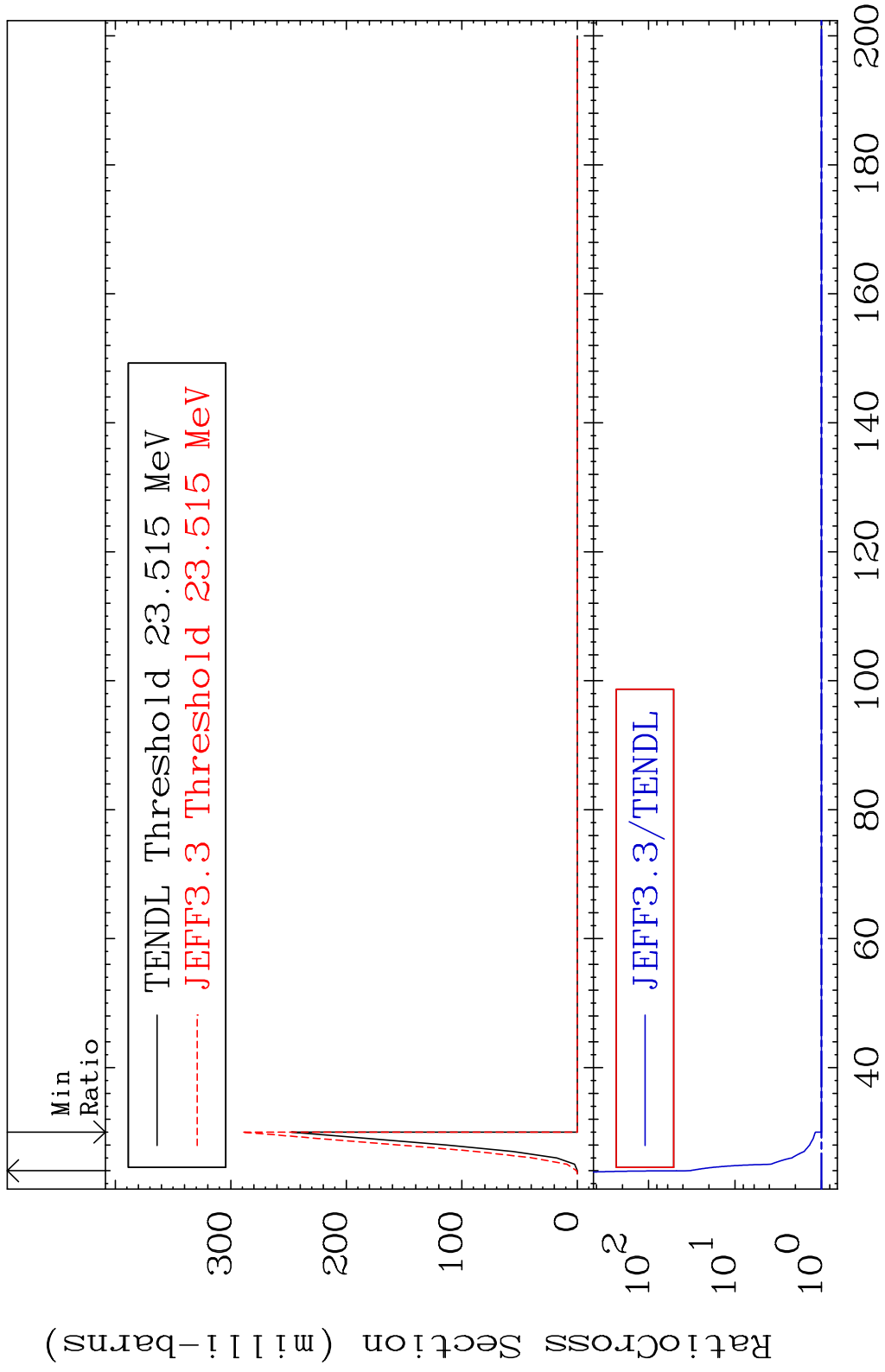


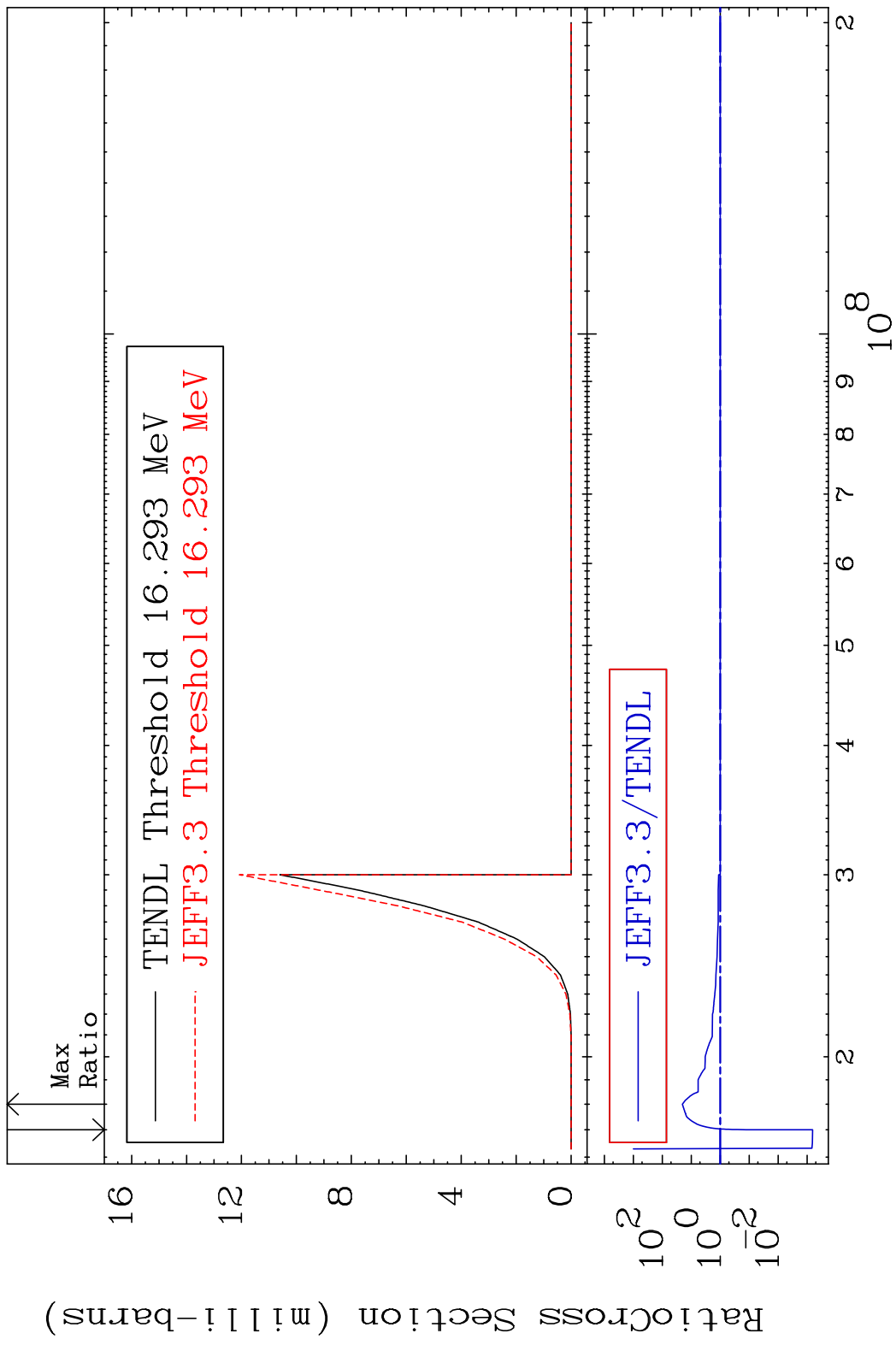


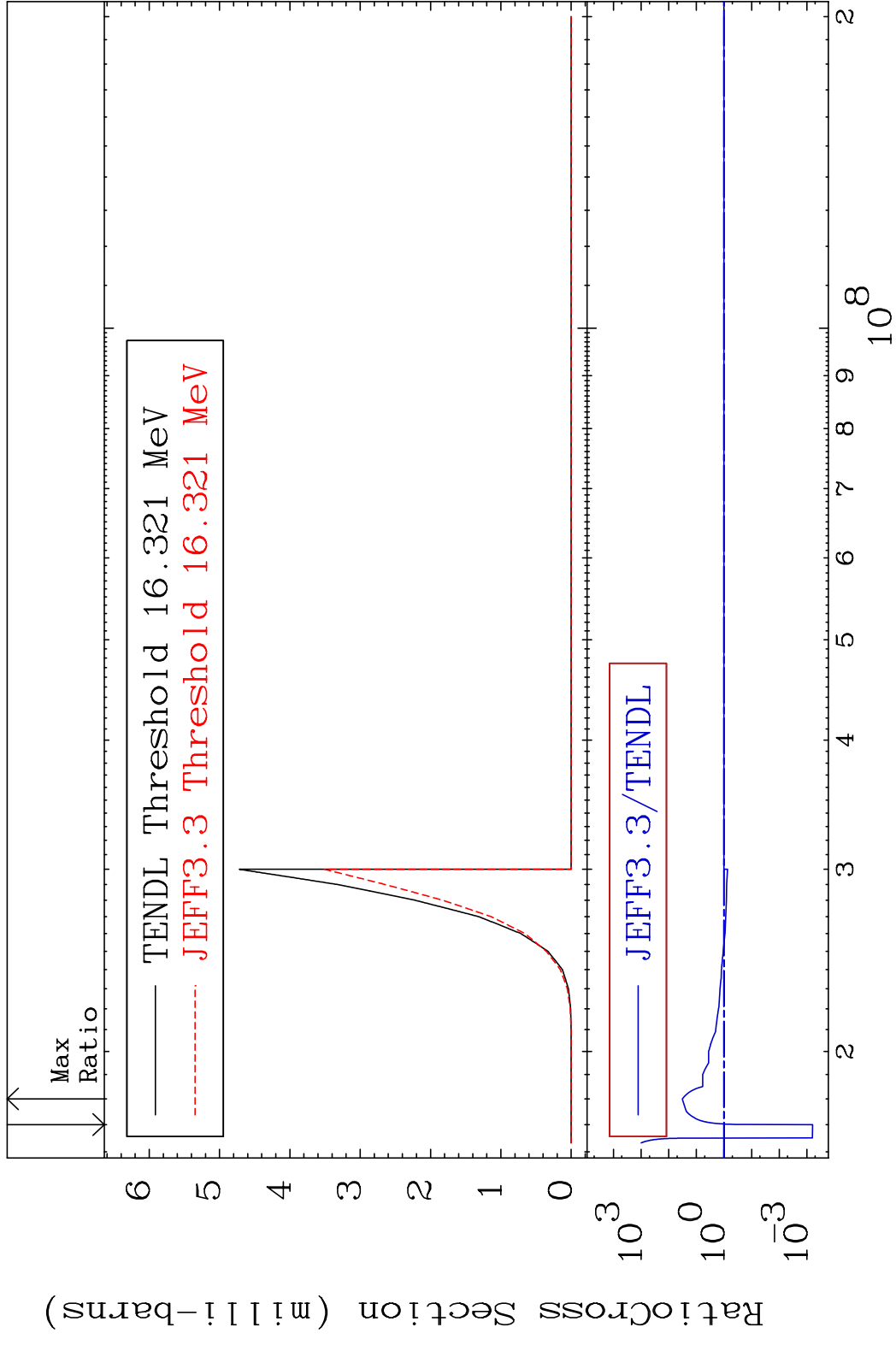


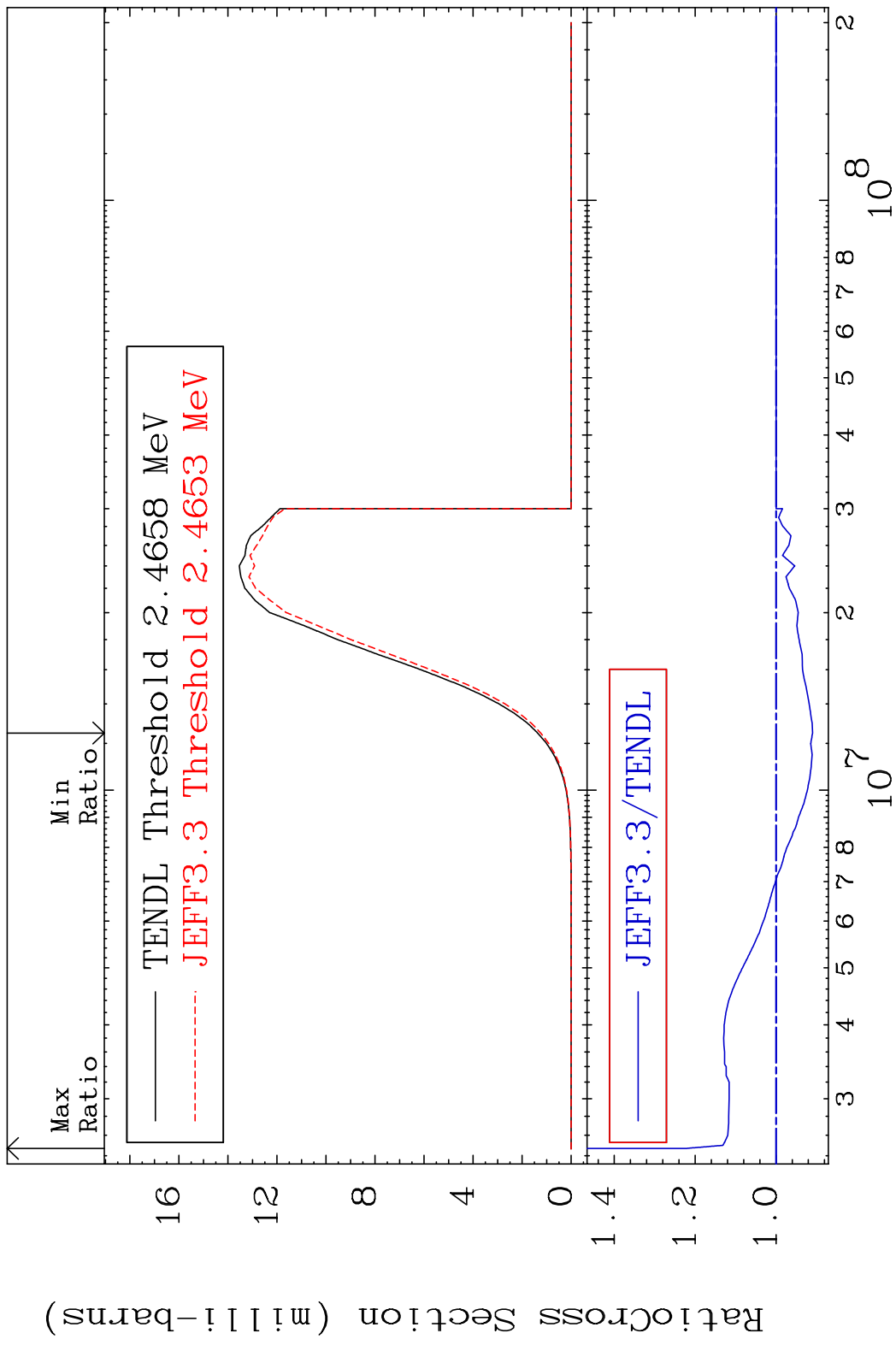


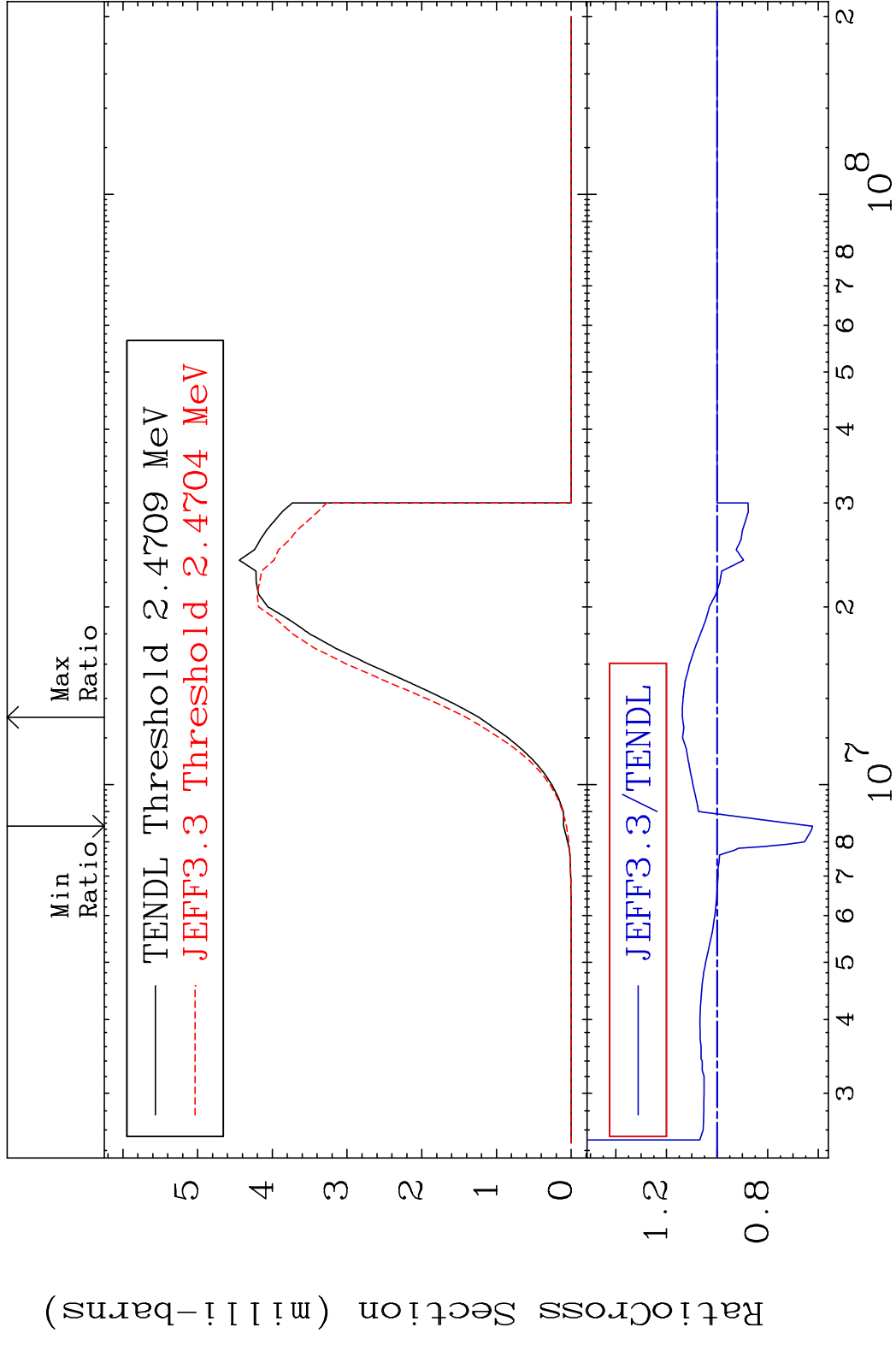










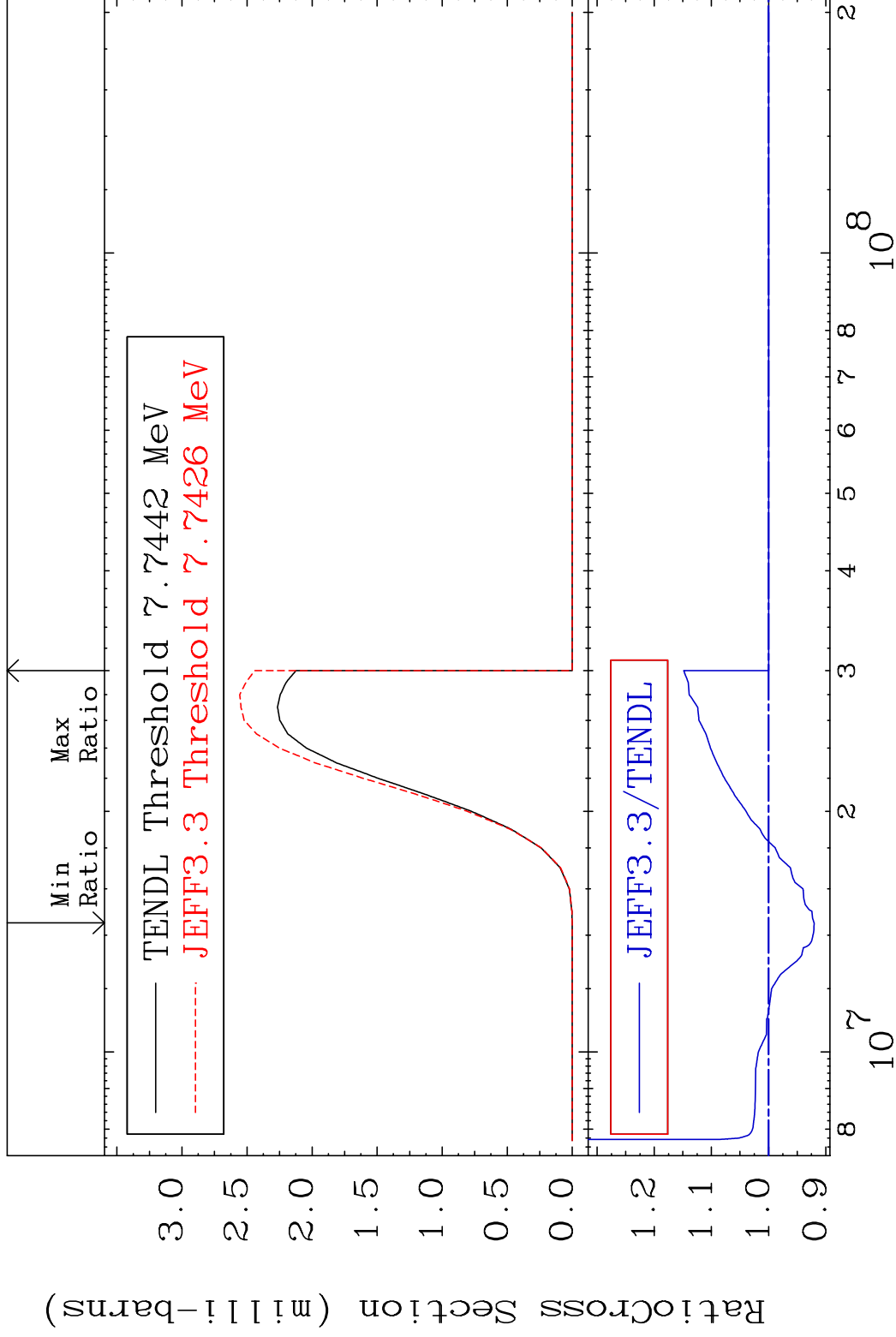


MAT 5143

(n, t):50-Sn-125g

51-Sb-127

Radionuclide Production Cross Section 14.86 %

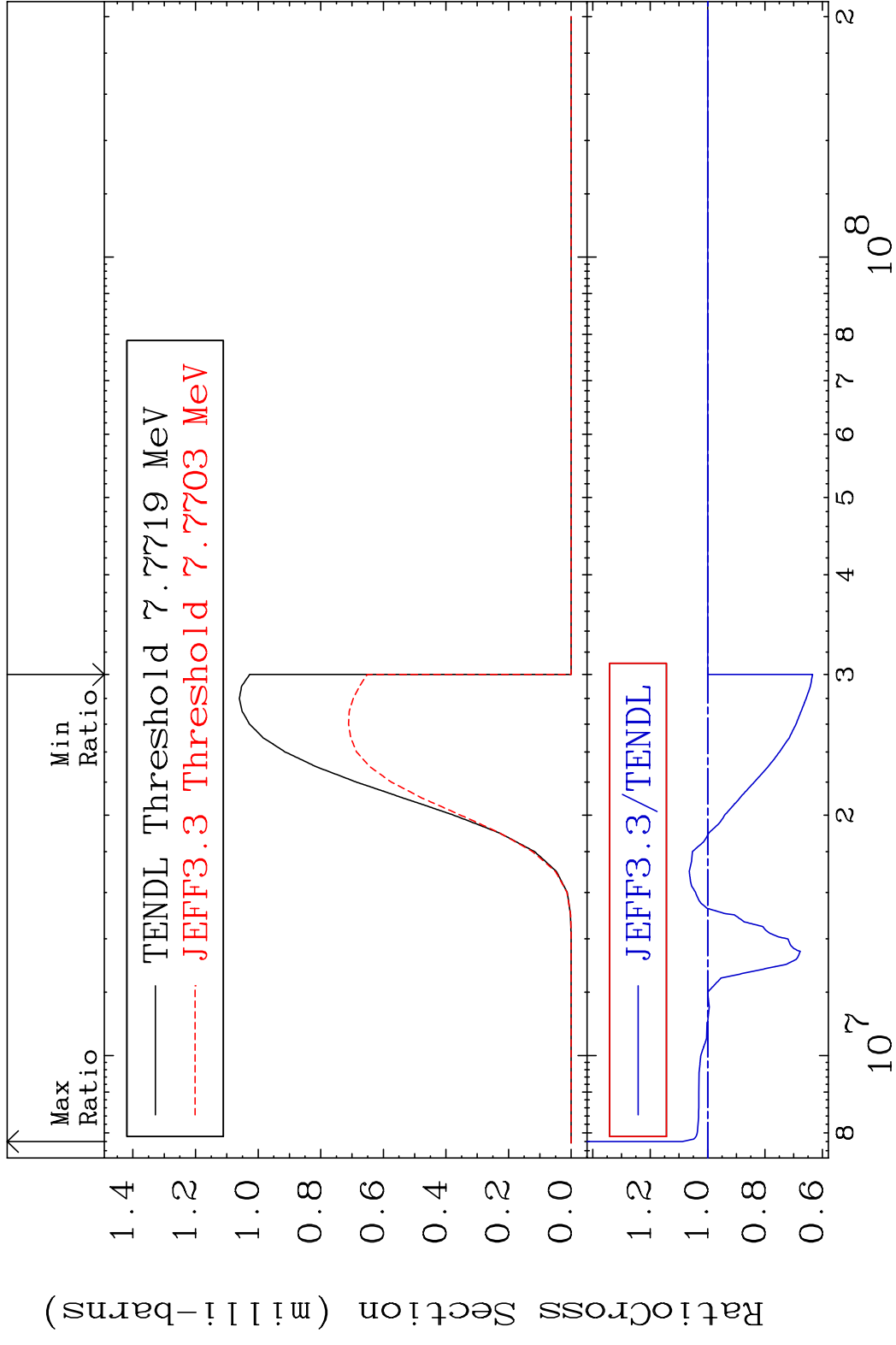


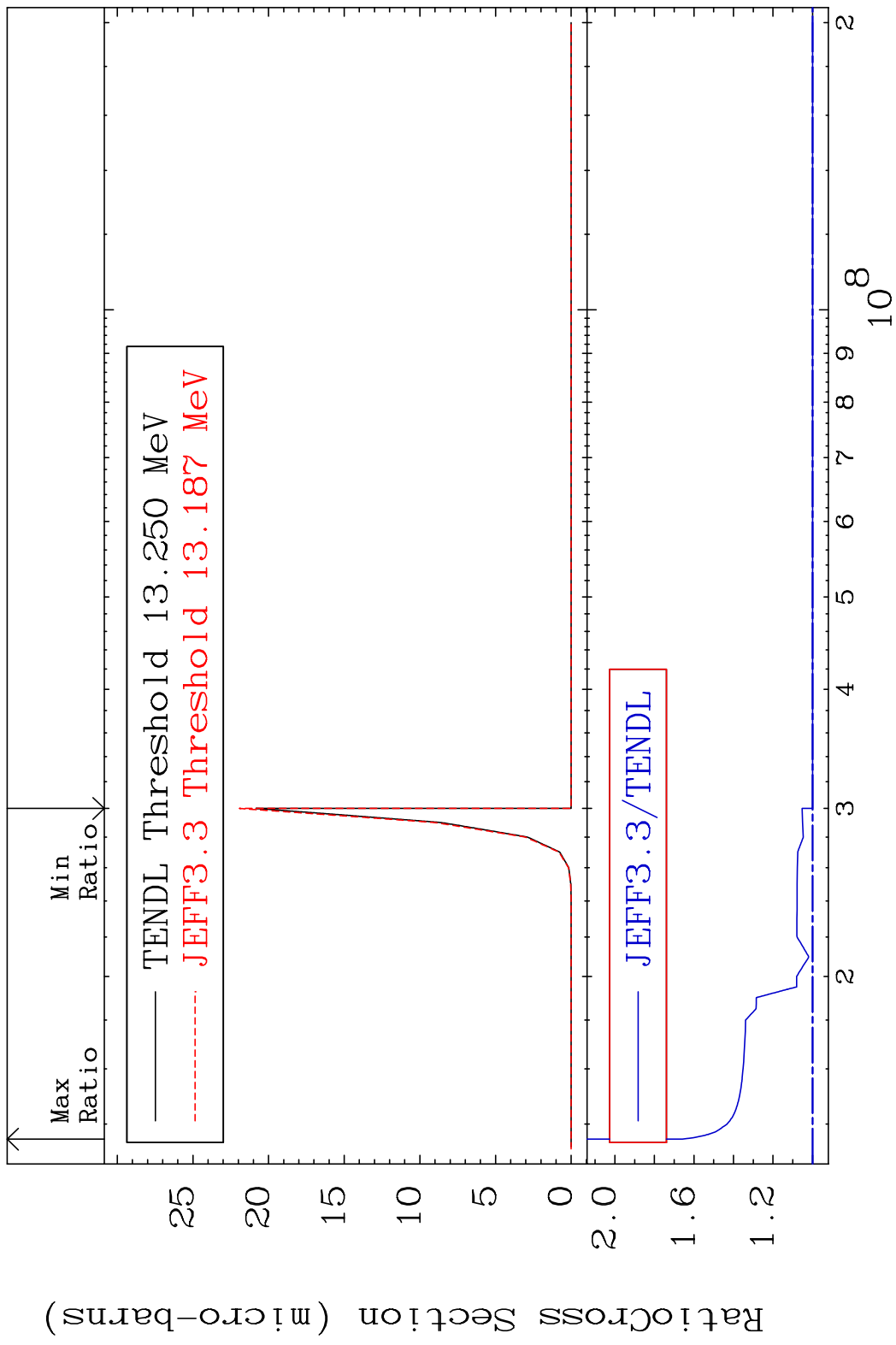
93

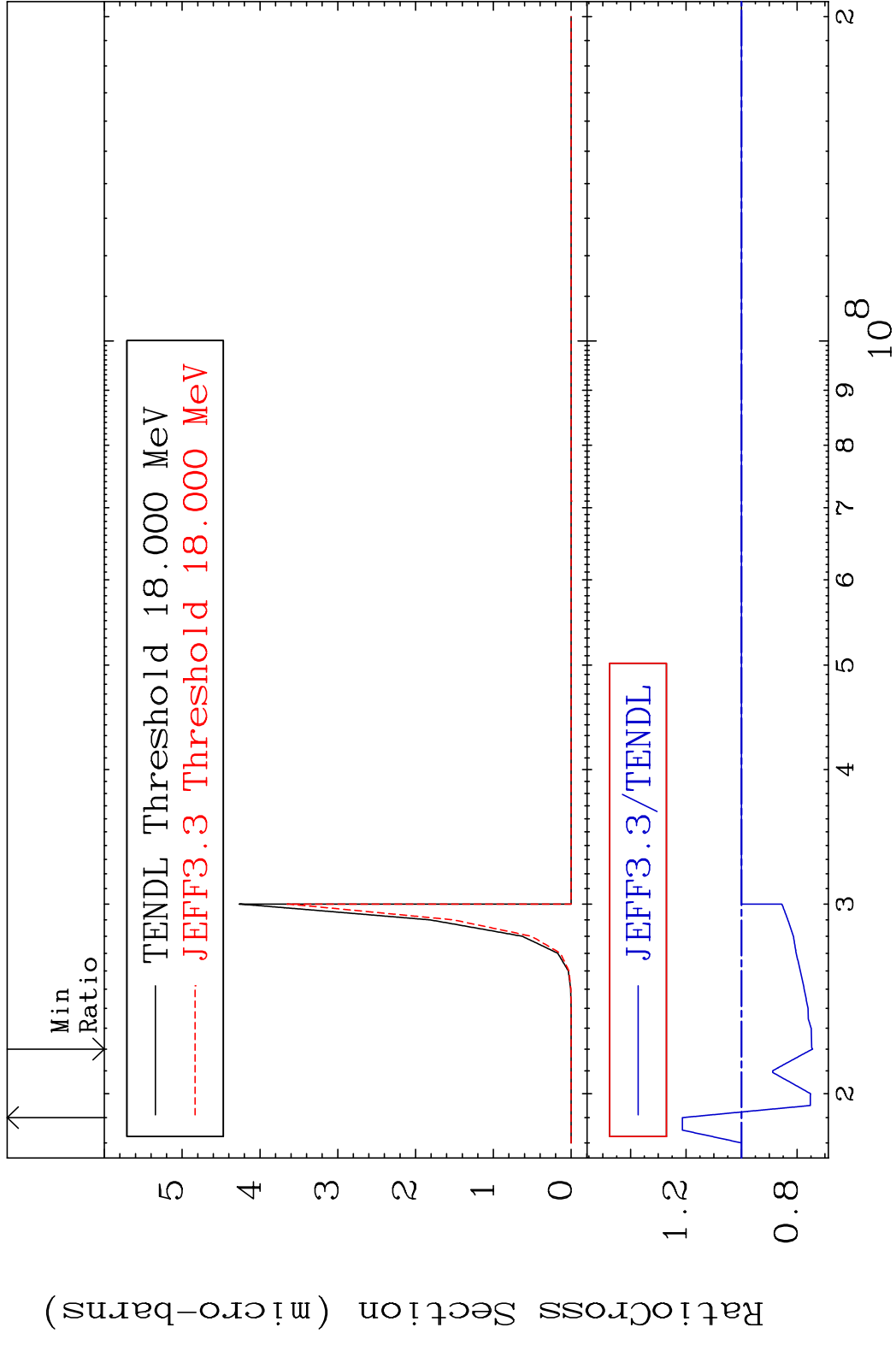
Incident Energy (eV)

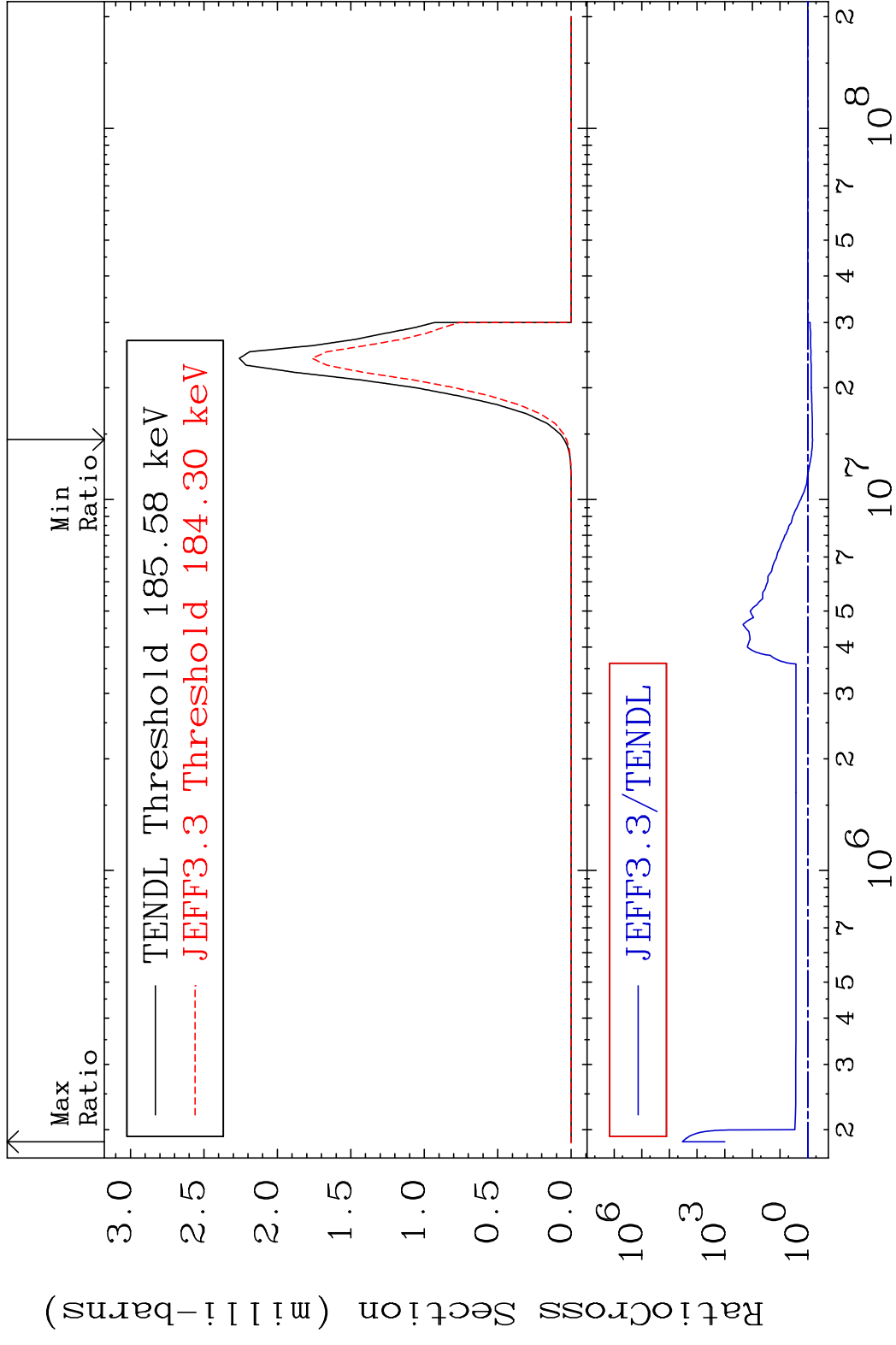
51-Sb-127

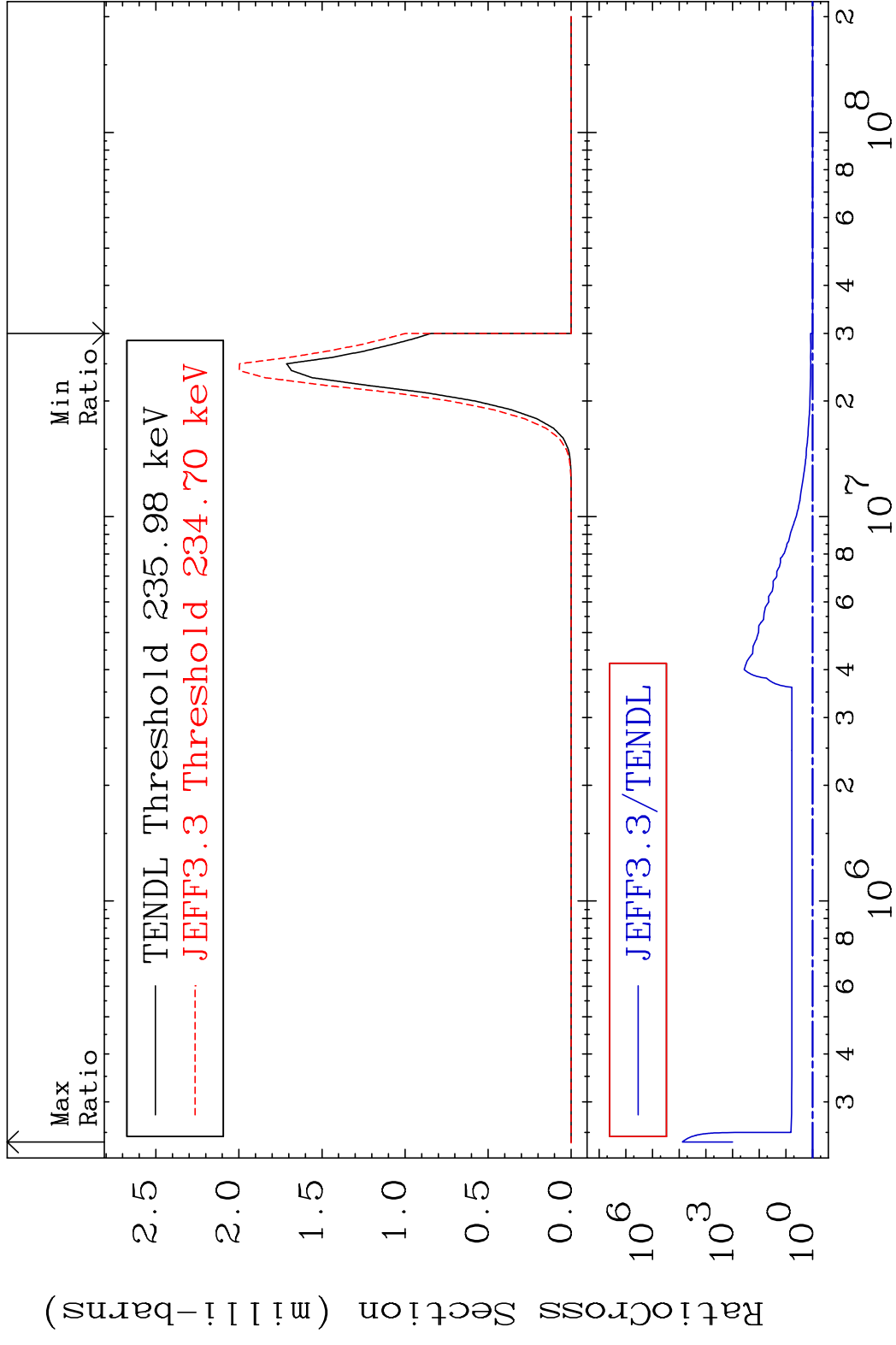
MAT 5143 (n, t):50-Sn-125m1 51-Sb-127
 Radionuclide Production Cross Section 5143 8.799 %

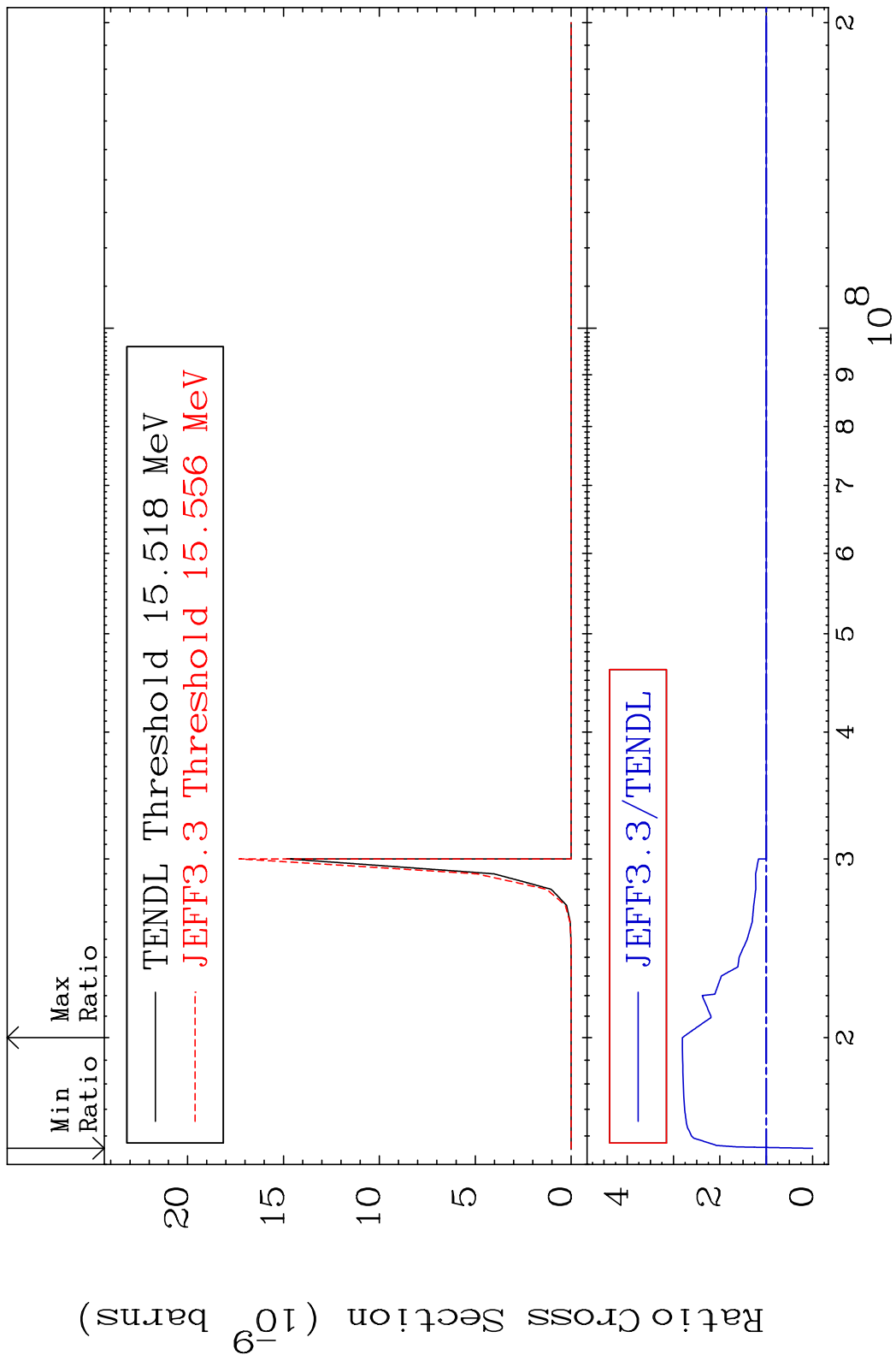




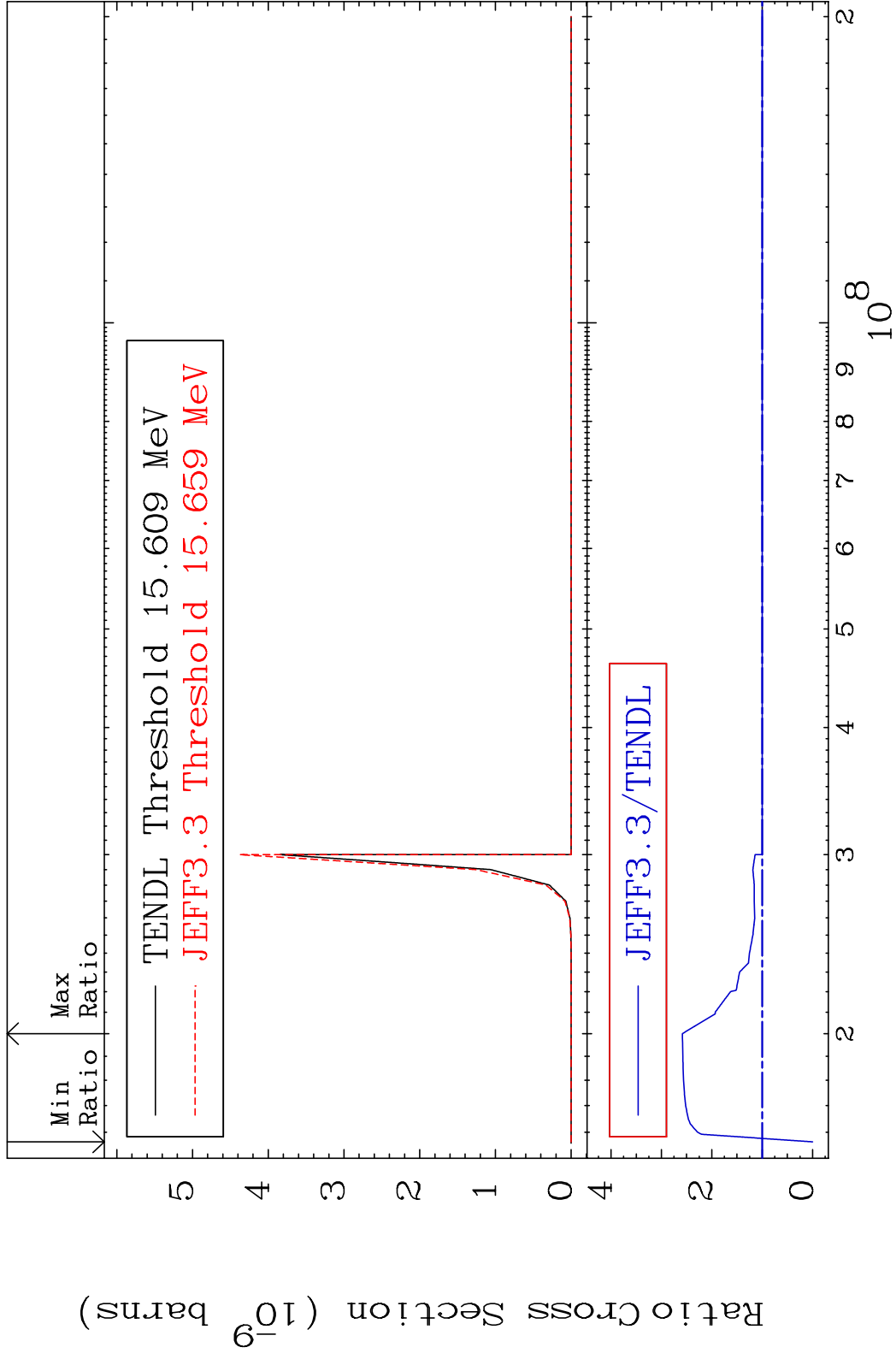








MAT 5143 (n,2p):49-In-126m1 51-Sb-127
 Radionuclide Production Cross Section 158.0 mb 158.4 %



100 Incident Energy (eV) 51-Sb-127