

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

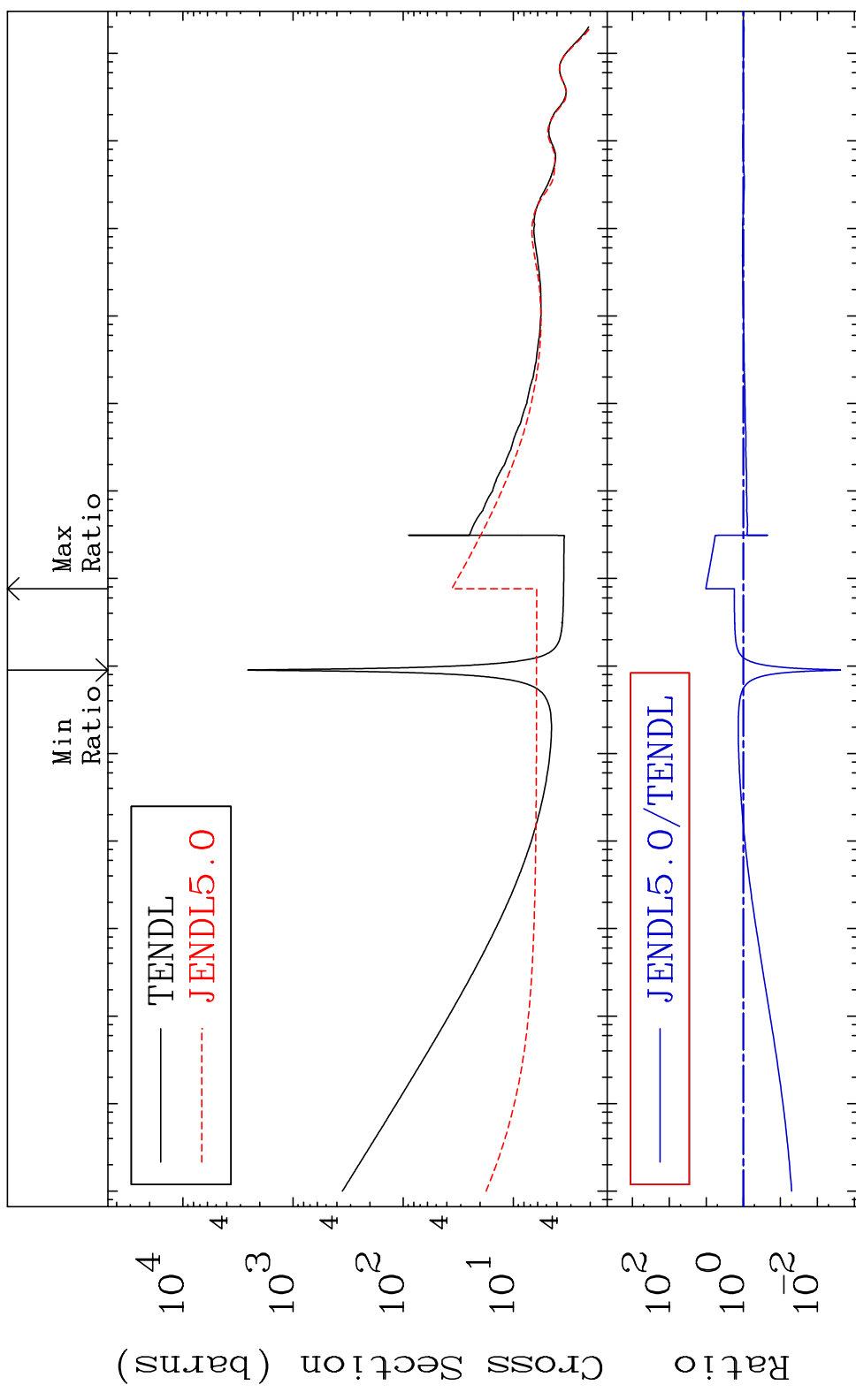
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 5143

Total
Cross Section -99.76 To 935.9 %

51-Sb-127



1 Incident Energy (eV) 51-Sb-127

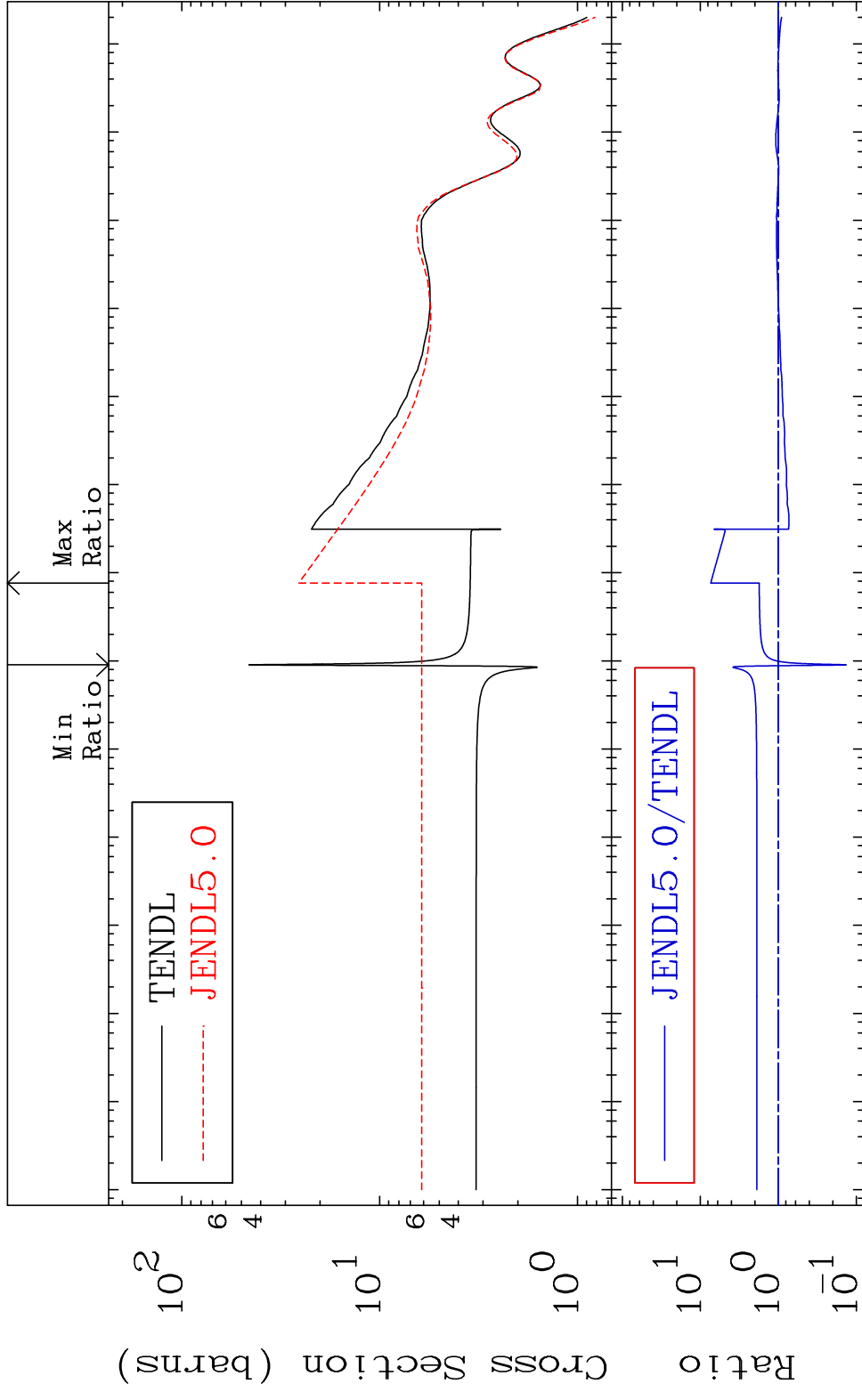
MAT 5143

Elastic

51-Sb-127

Cross Section

-86.57 To 635.3 %



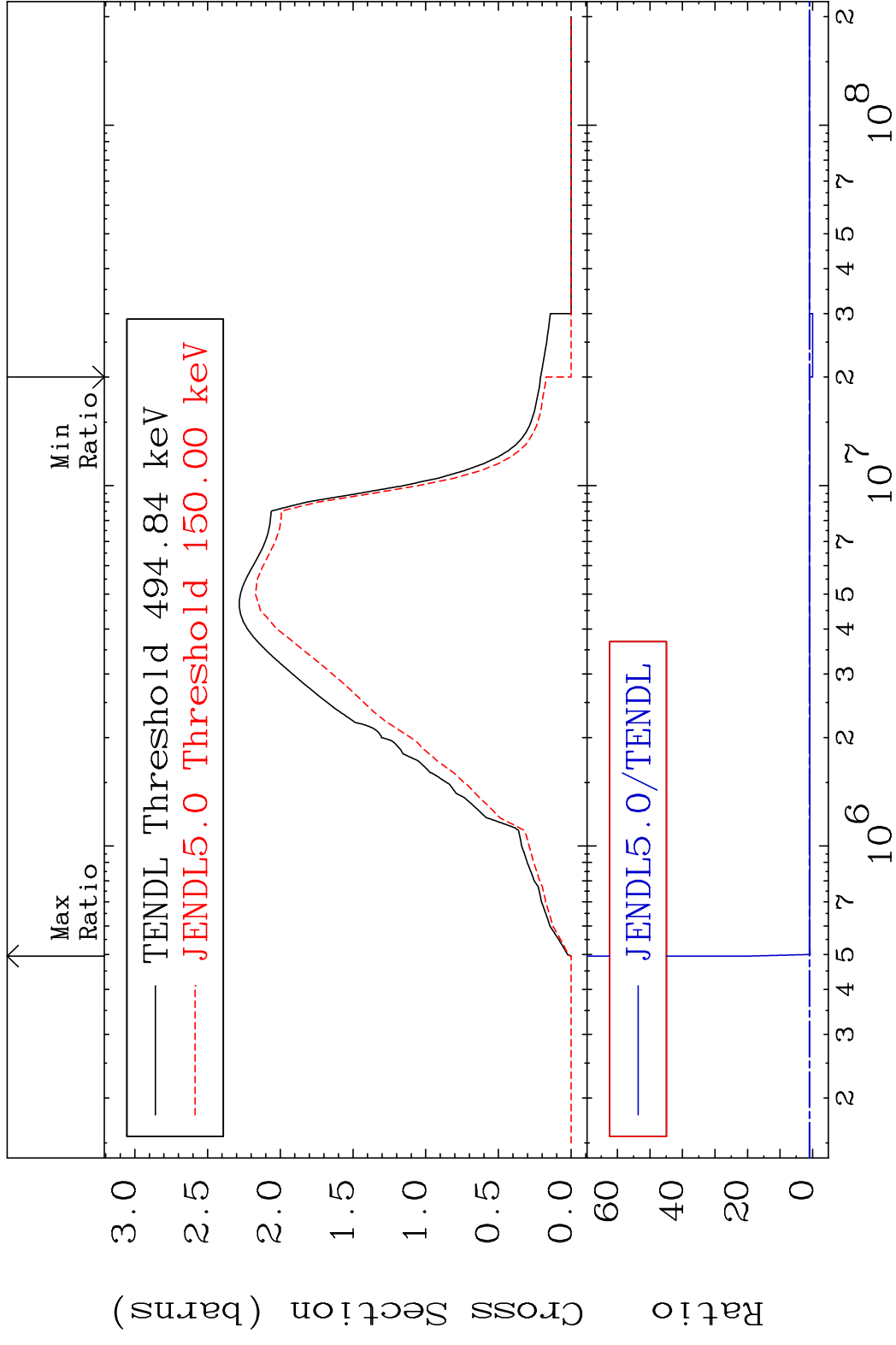
10²
10¹
10⁰
Ratio
10¹
10⁰
10⁻¹
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

2

Incident Energy (eV)

51-Sb-127

MAT 5143 Inelastic 51-Sb-127
 Cross Section -100.0 To 3904. %

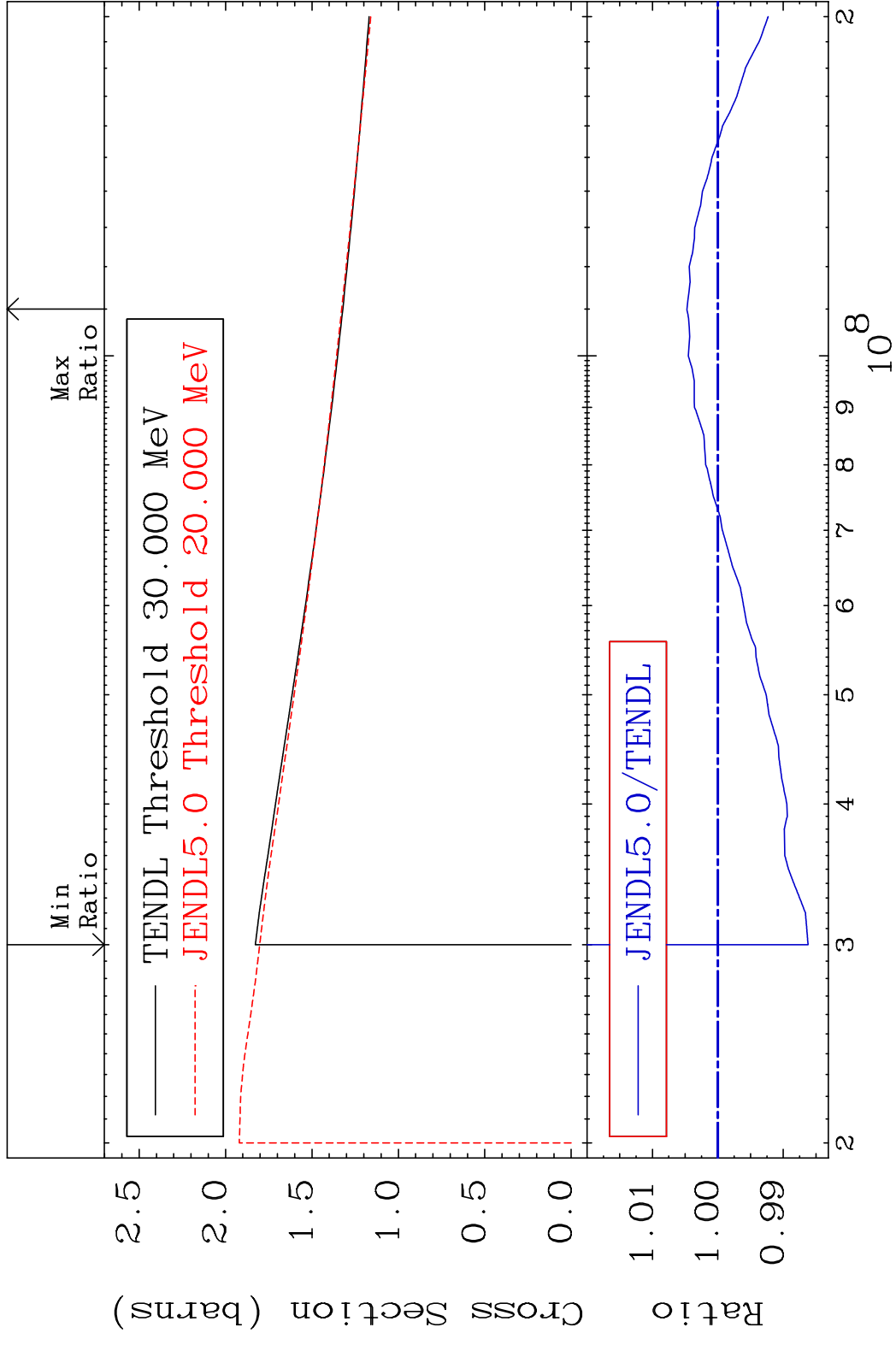


MAT 5143

(n, remainder)

51-Sb-127

Cross Section -1.379 To 0.474 %



4

Incident Energy (eV)

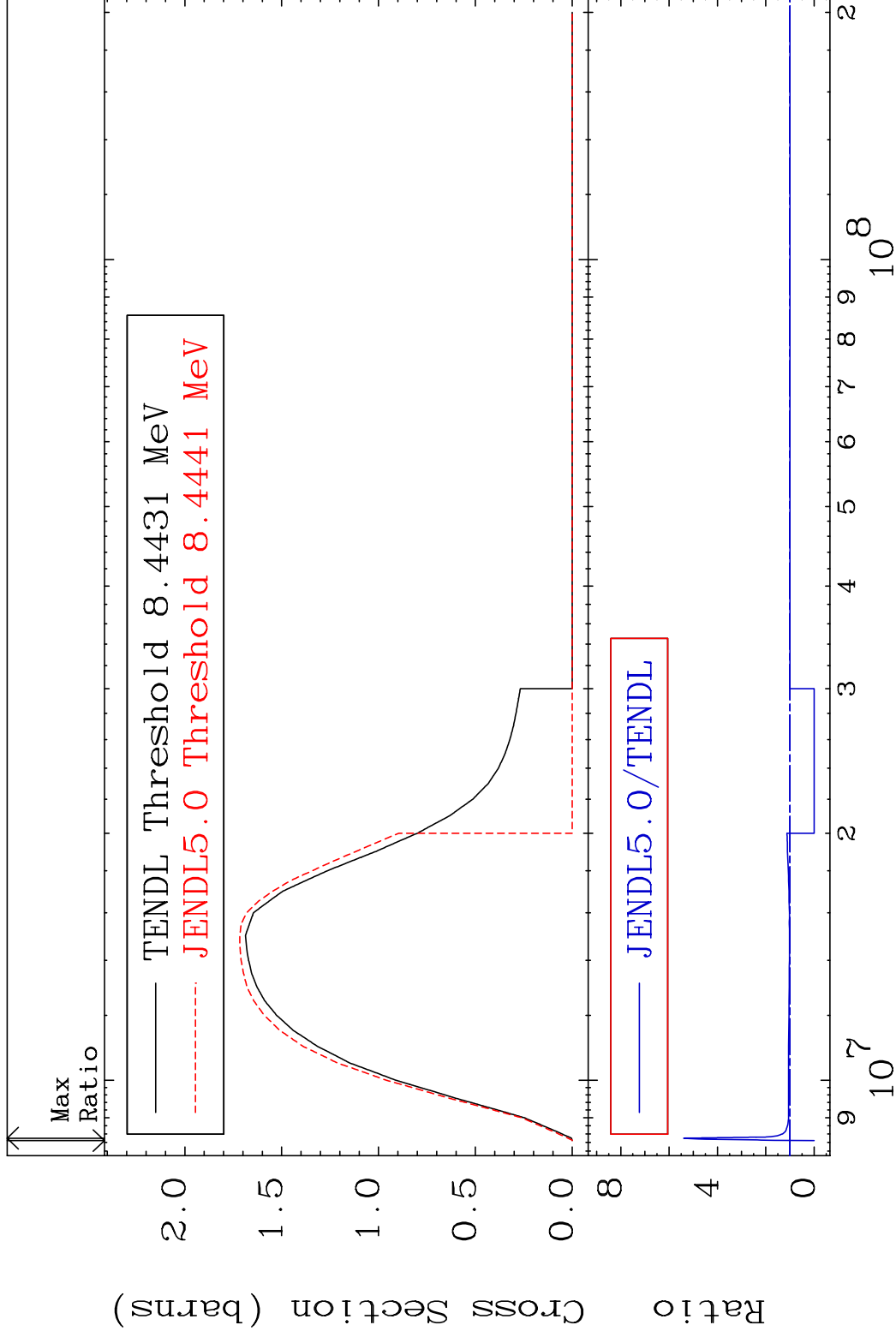
51-Sb-127

MAT 5143

(n,2n)

51-Sb-127

Cross Section -100.0 To 439.7 %



5

Incident Energy (eV)

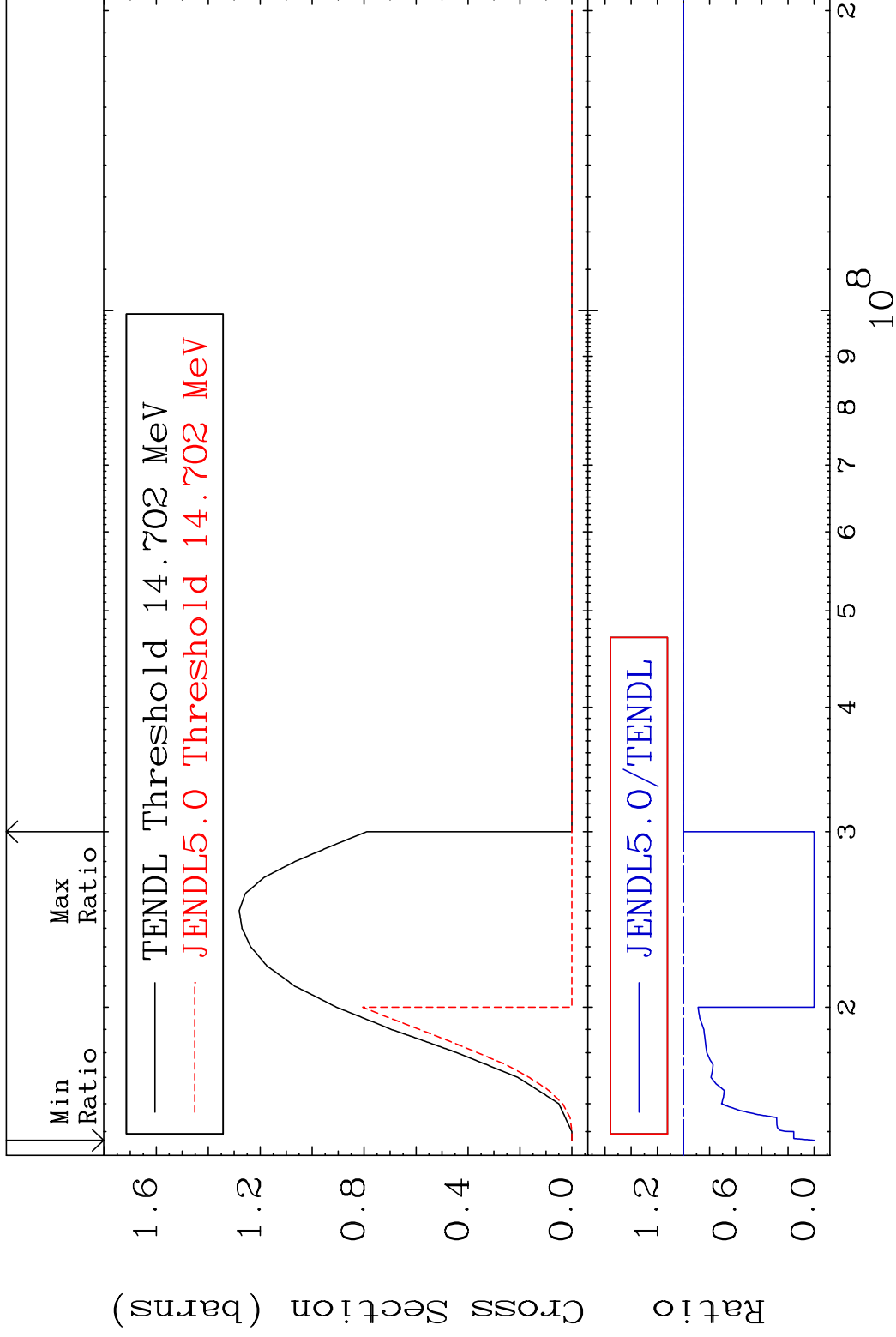
51-Sb-127

MAT 5143

(n,3n)

51-Sb-127

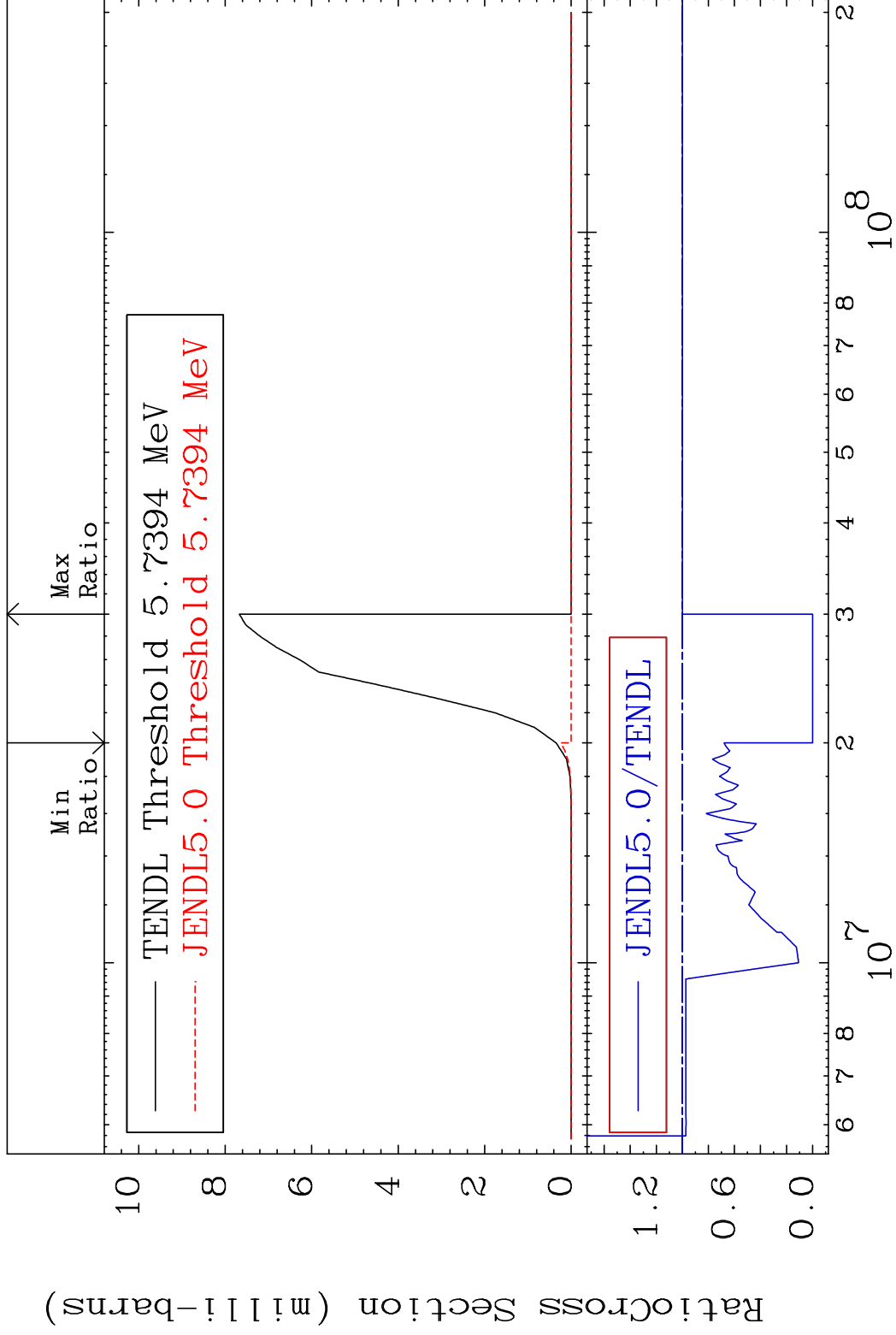
Cross Section -100.0 To 0.000 %



MAT 5143

(n, n') α 51-Sb-127

Cross Section -100.0 To 0.000 %

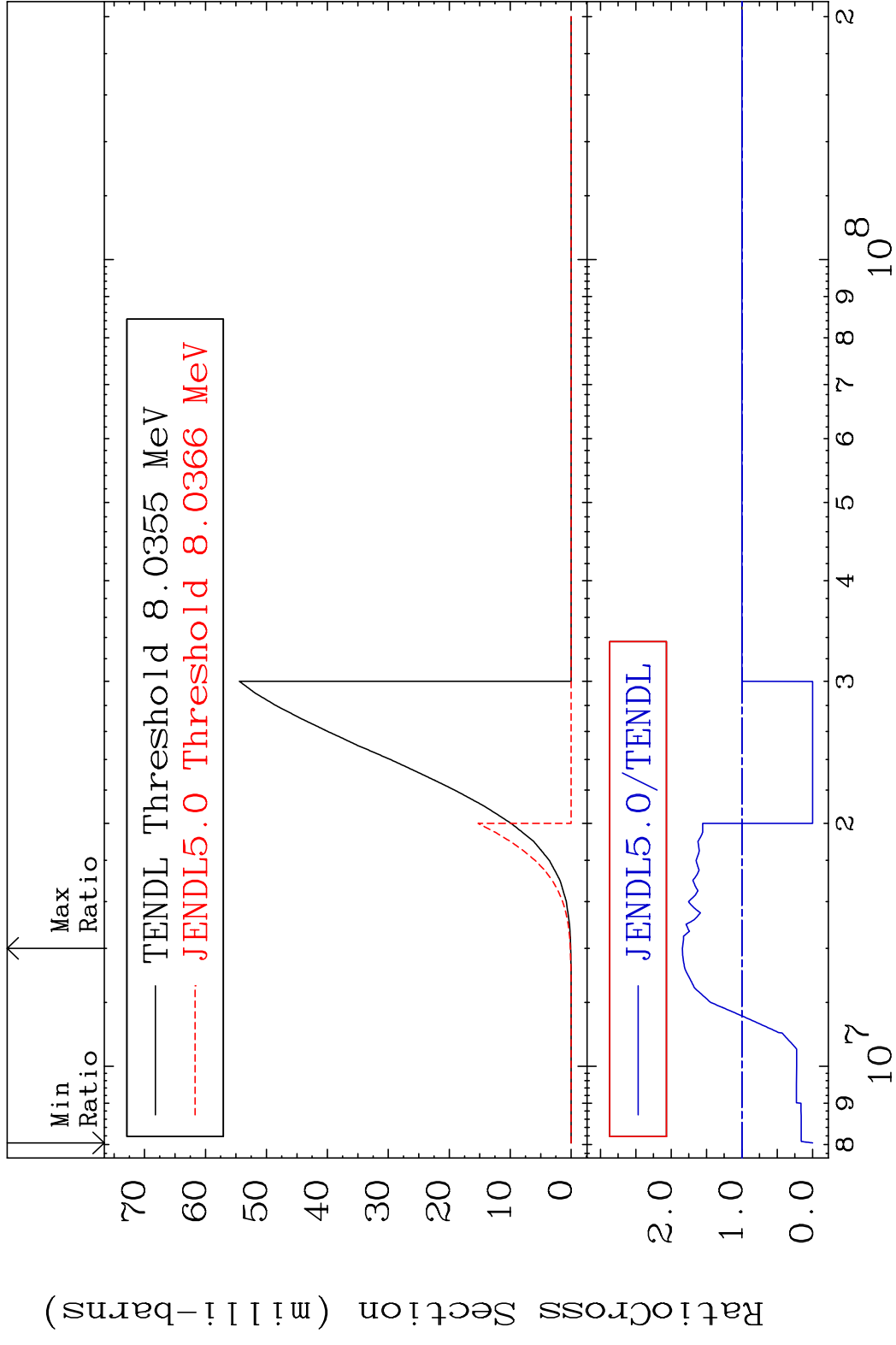


7

Incident Energy (eV)

51-Sb-127

MAT 5143 (n, n') p 51-Sb-127
 Cross Section -100.0 To 84.16 %

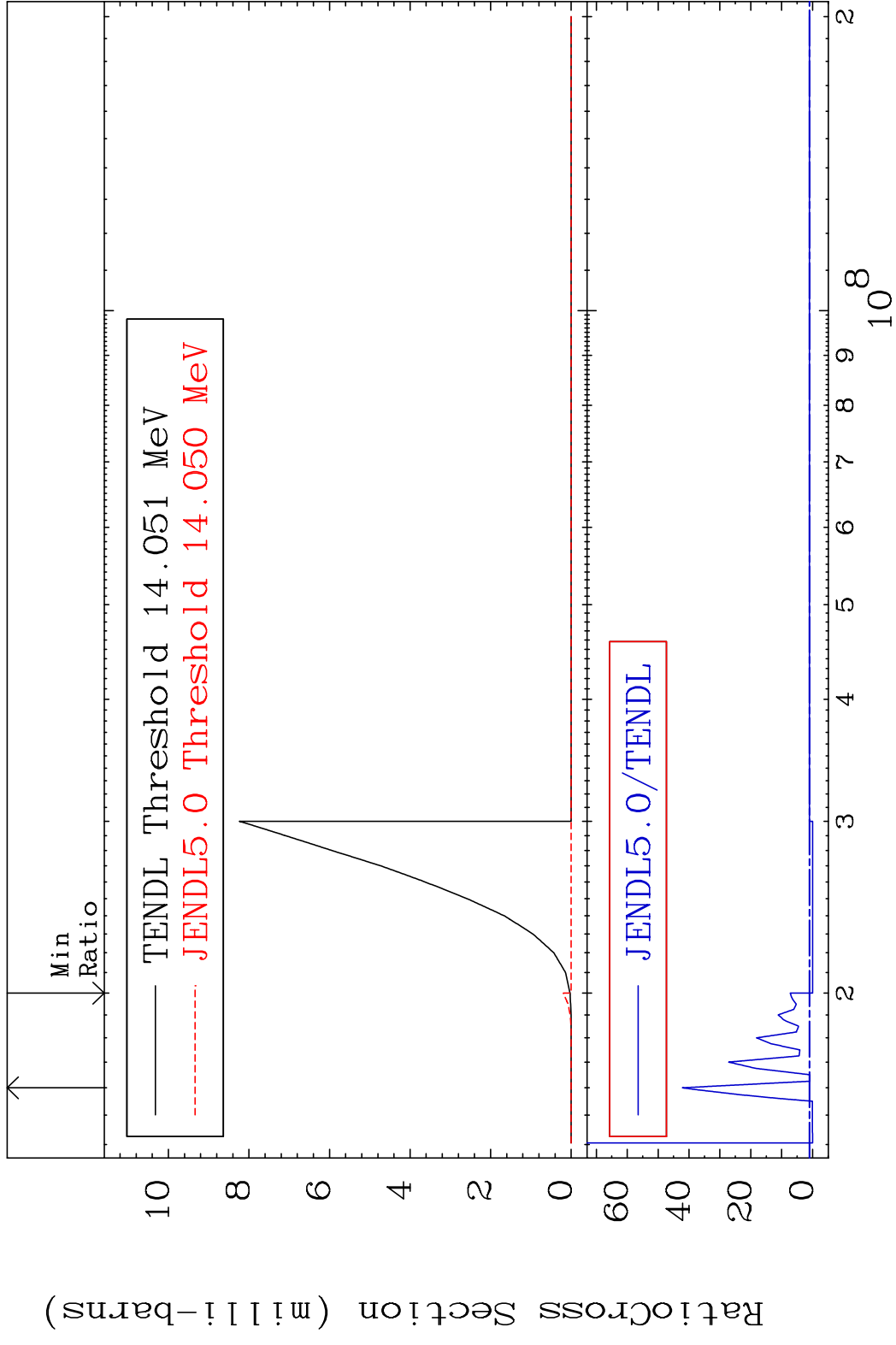


MAT 5143

(n, n') d

51-Sb-127

Cross Section -100.0 To 4115. %

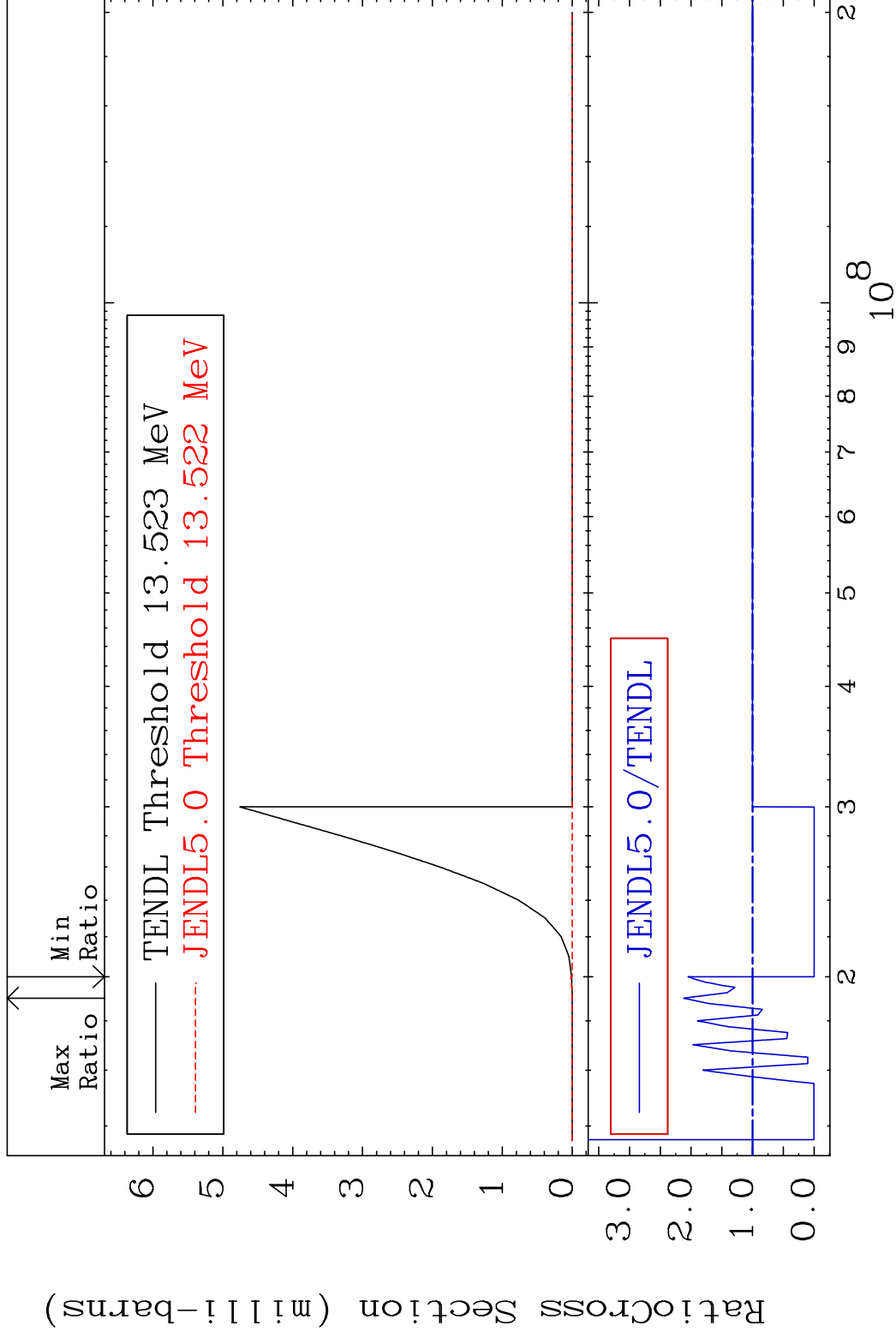


MAT 5143

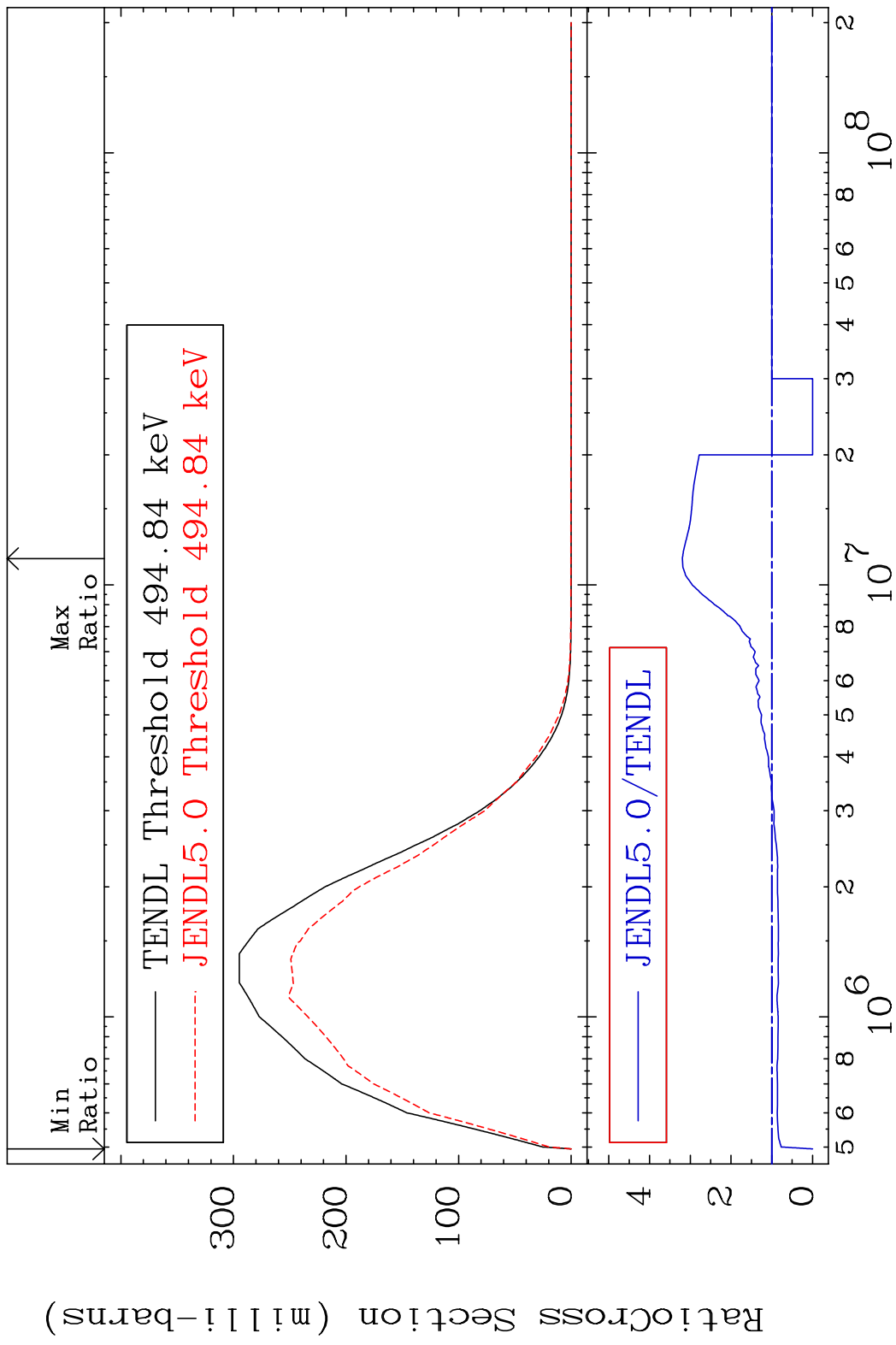
(n, n') t

51-Sb-127

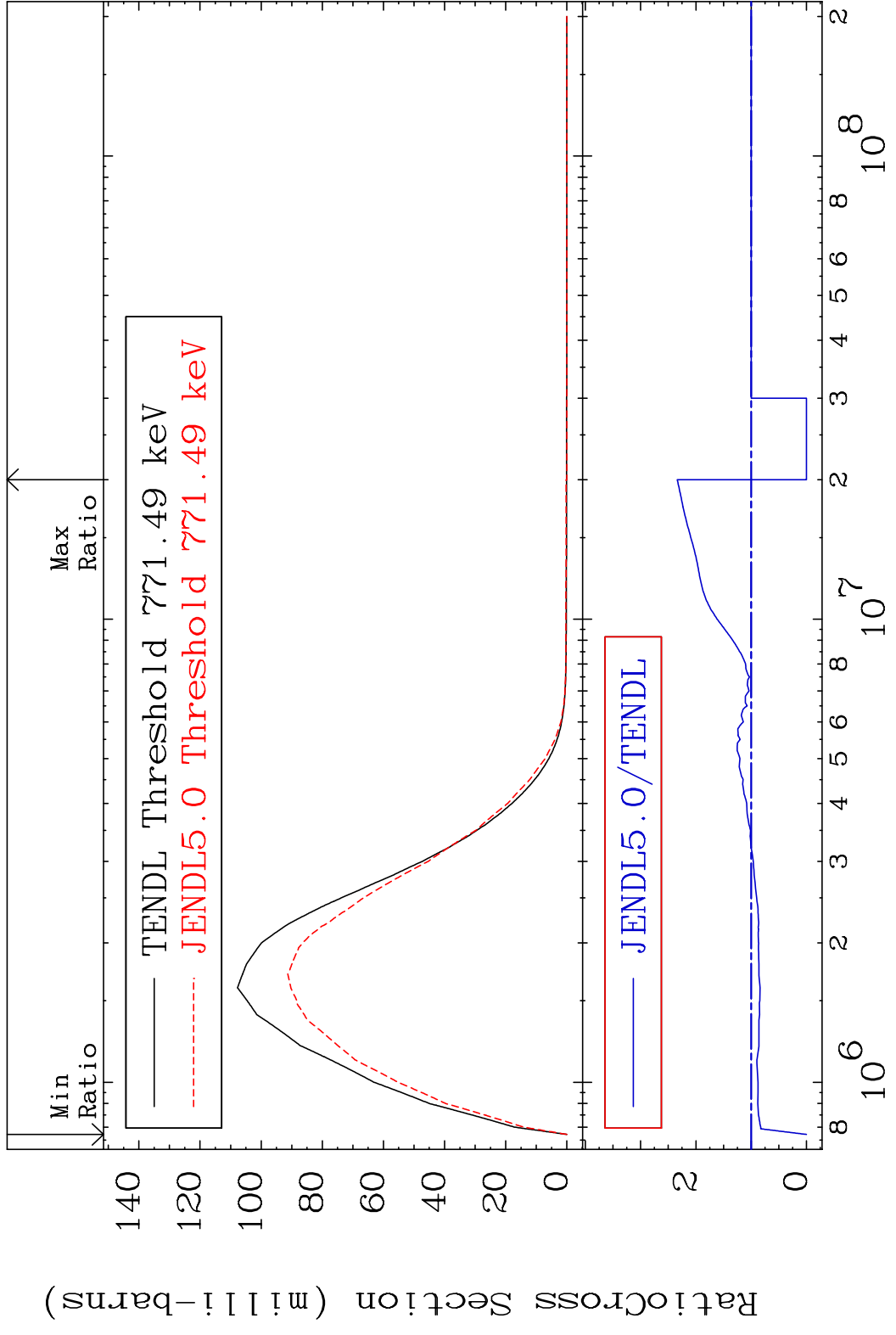
Cross Section -100.0 To 112.0 %



MAT 5143 MT= 51 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 219.5 %

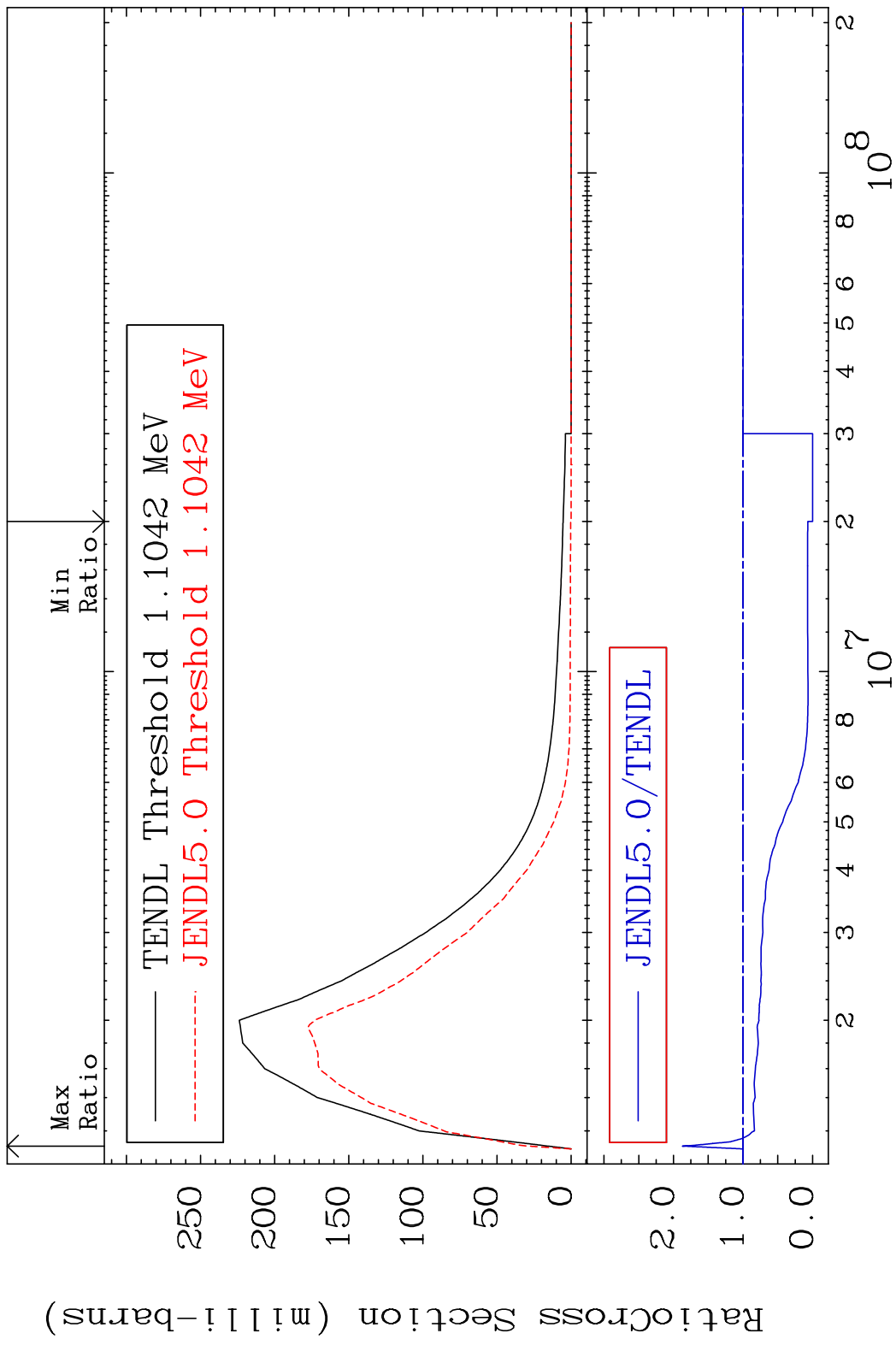


MAT 5143 MT= 52 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 133.9 %

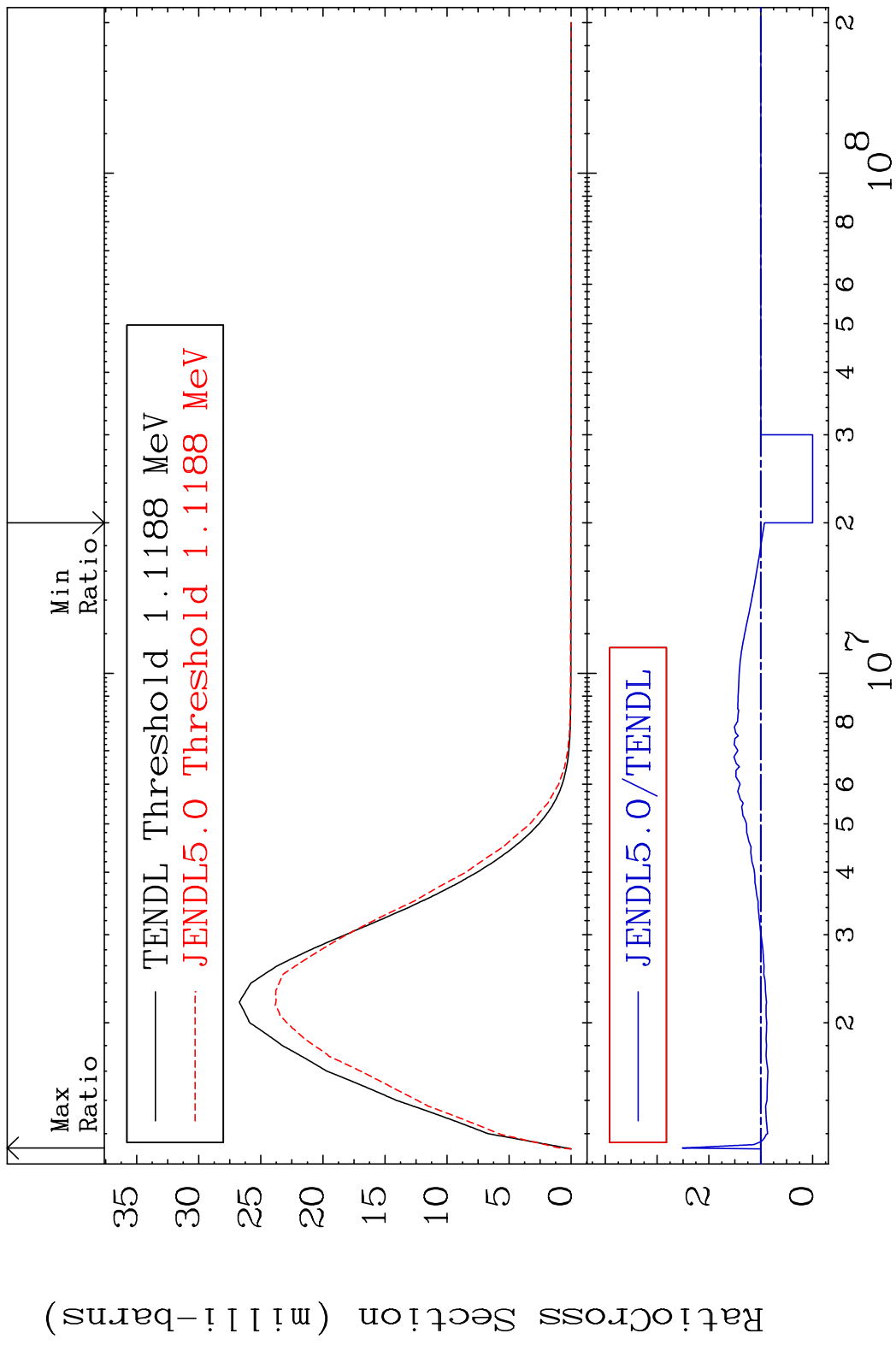


12 Incident Energy (eV) 51-Sb-127

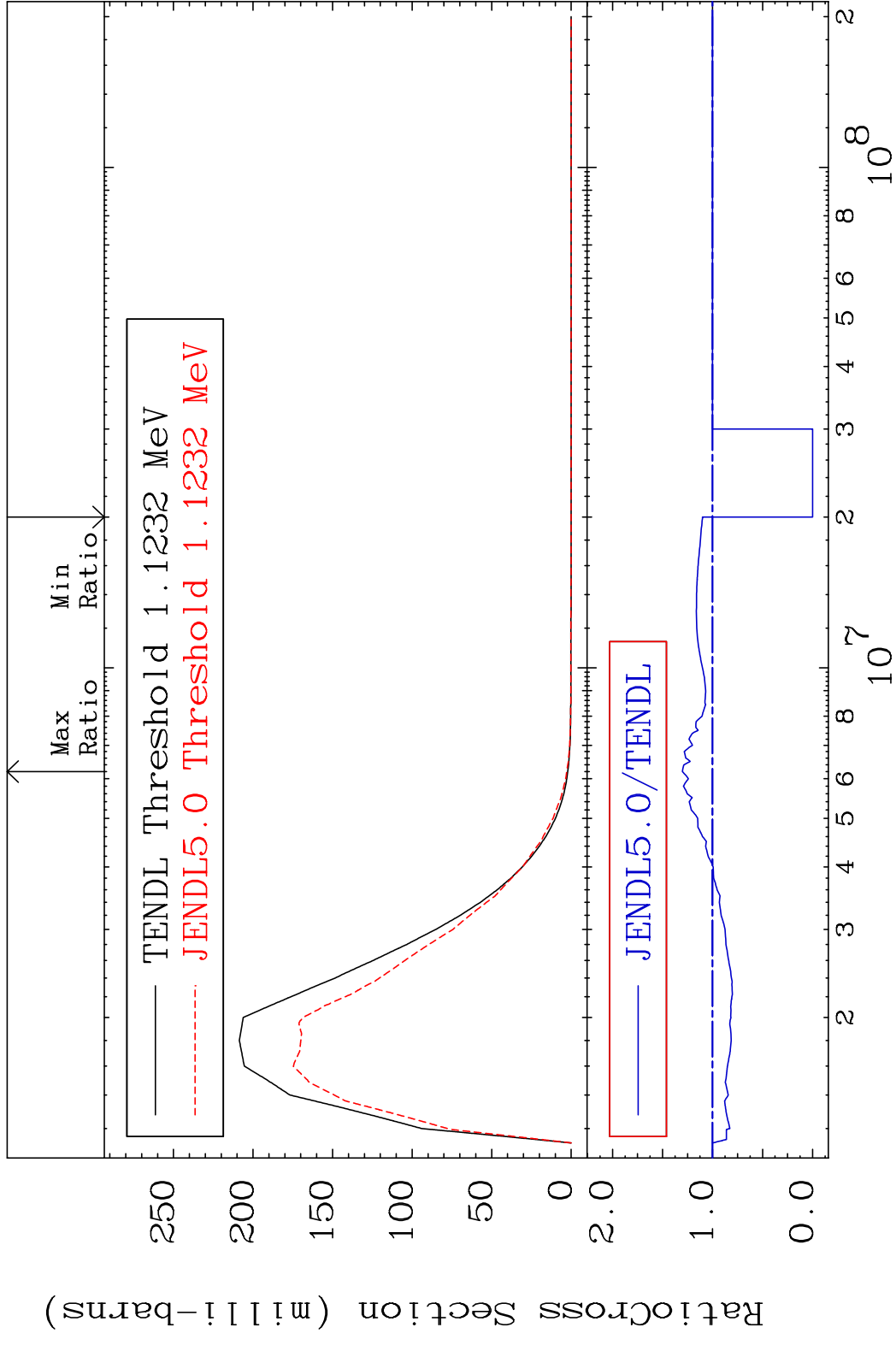
MAT 5143 MT= 53 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 87.27 %



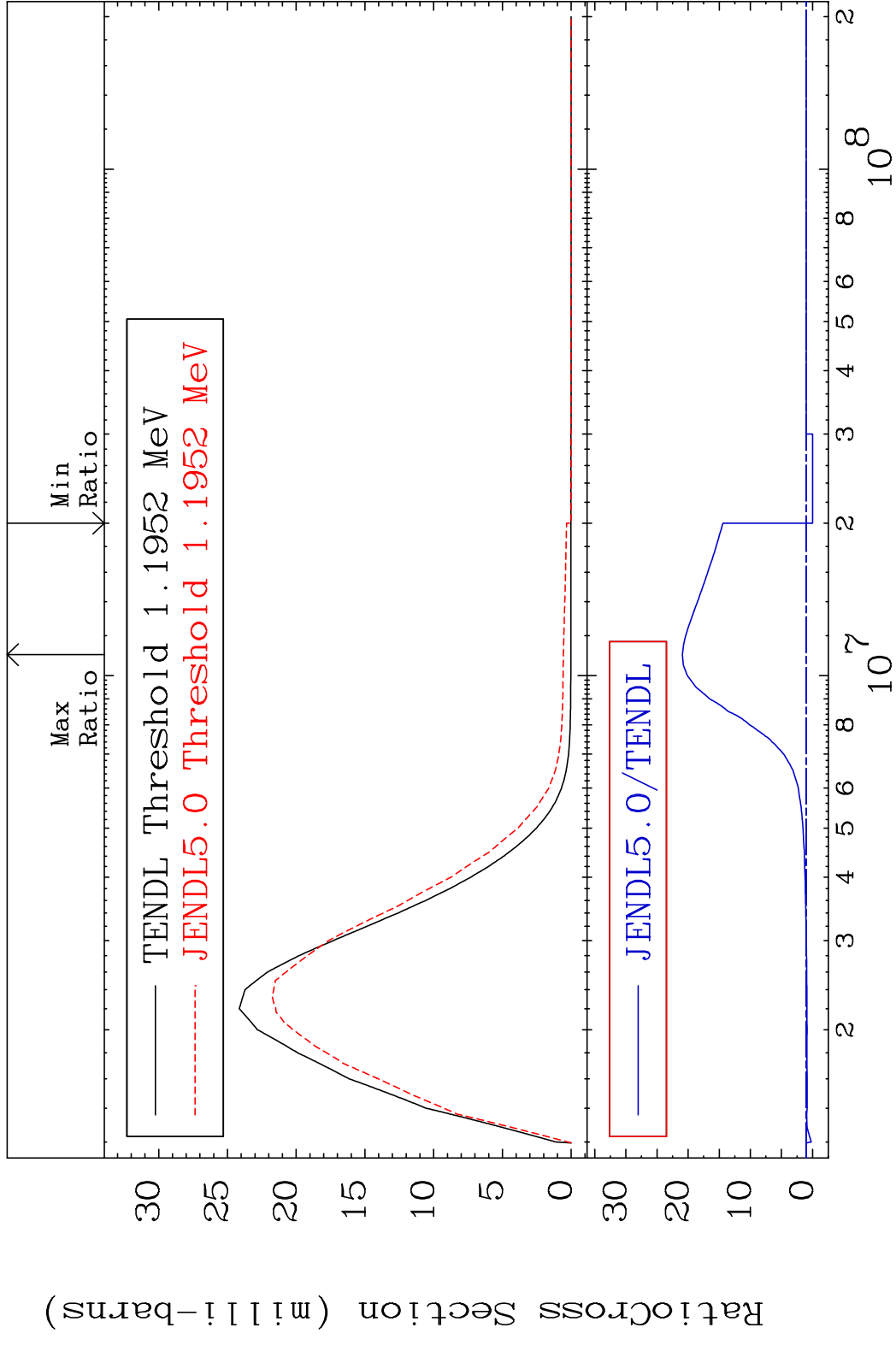
MAT 5143 MT= 54 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 151.2 %



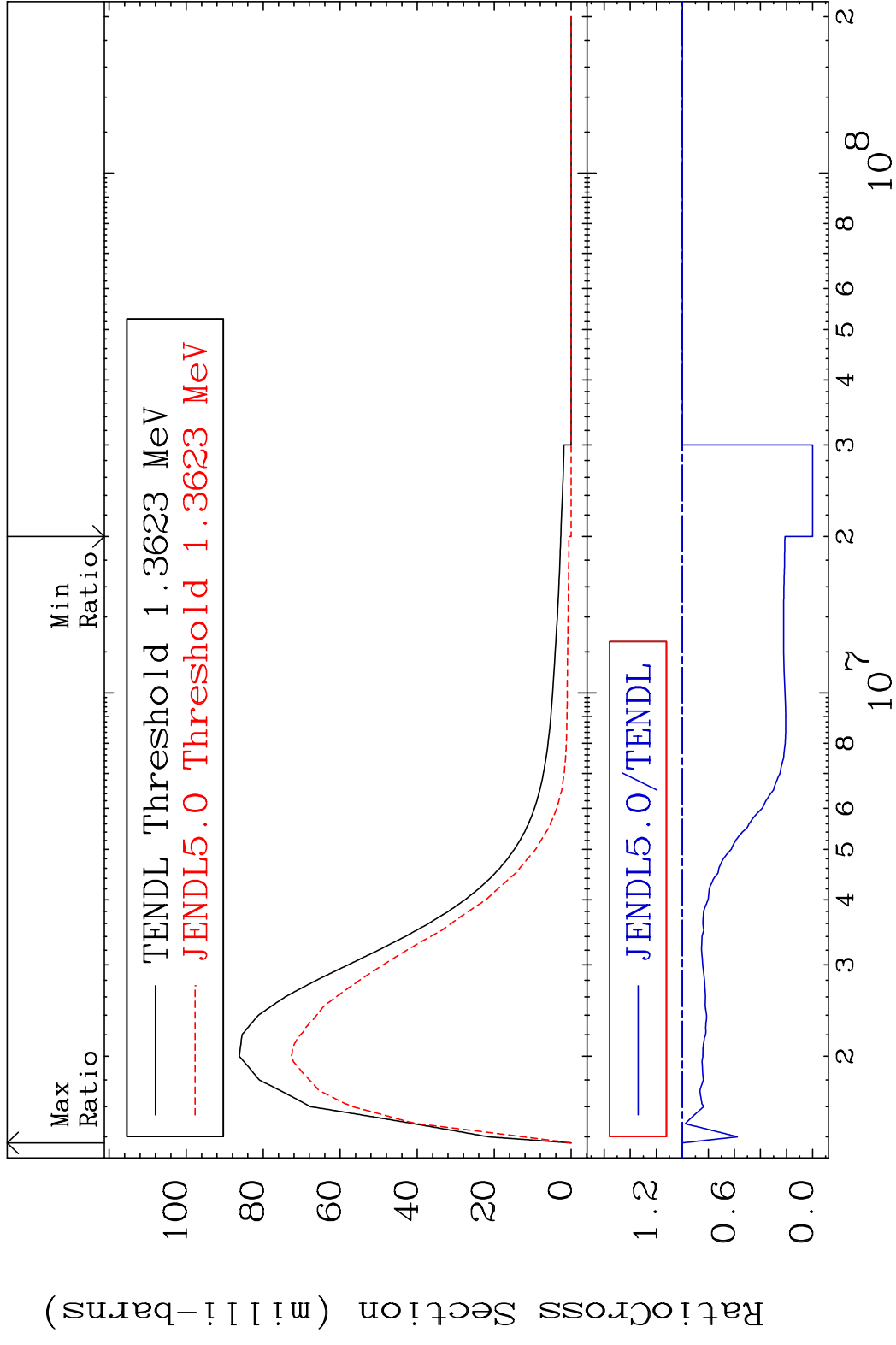
MAT 5143 MT= 55 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 30.20 %



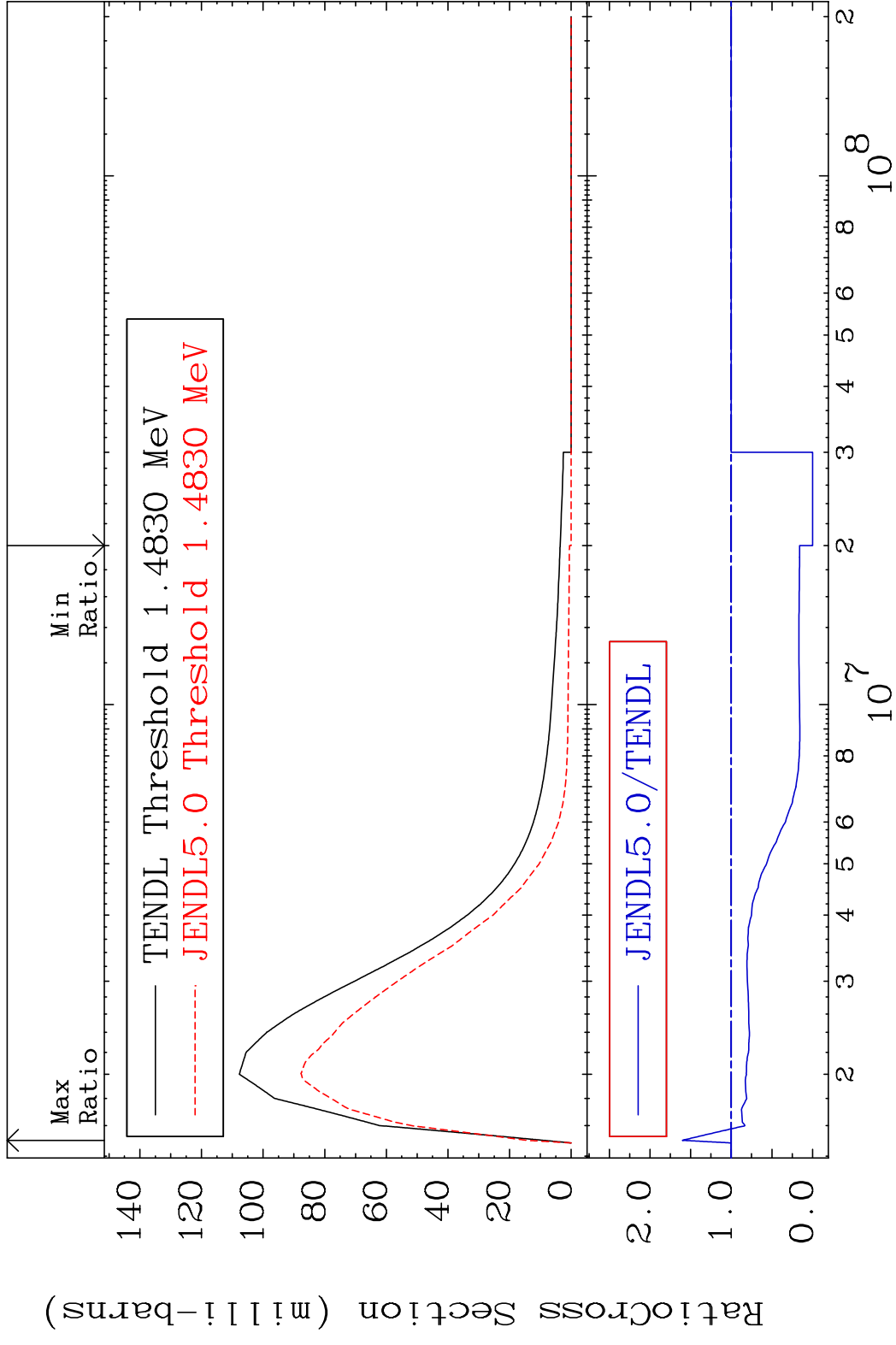
MAT 5143 MT= 56 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 1993. %



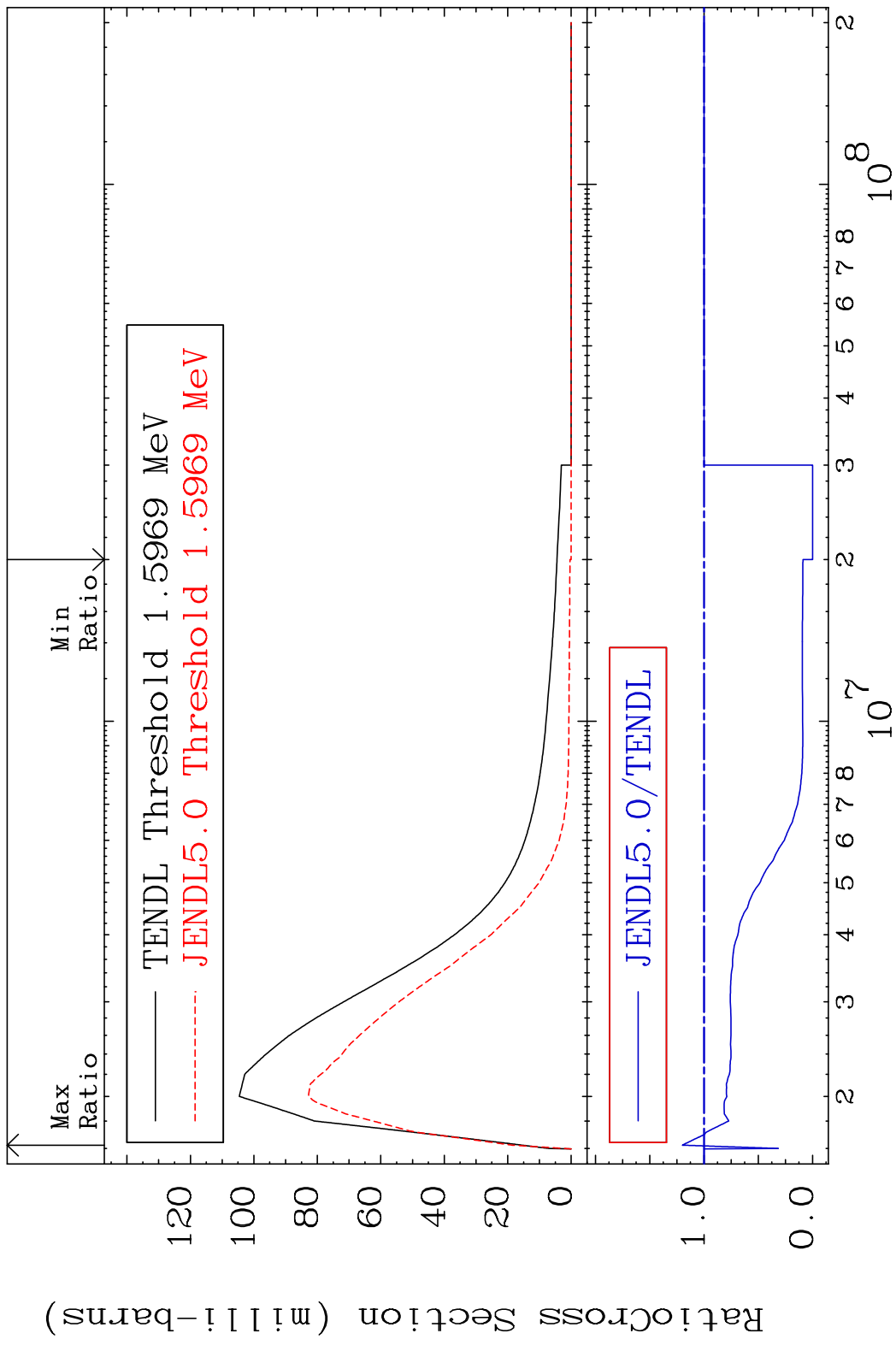
MAT 5143 MT= 57 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 0.000 %



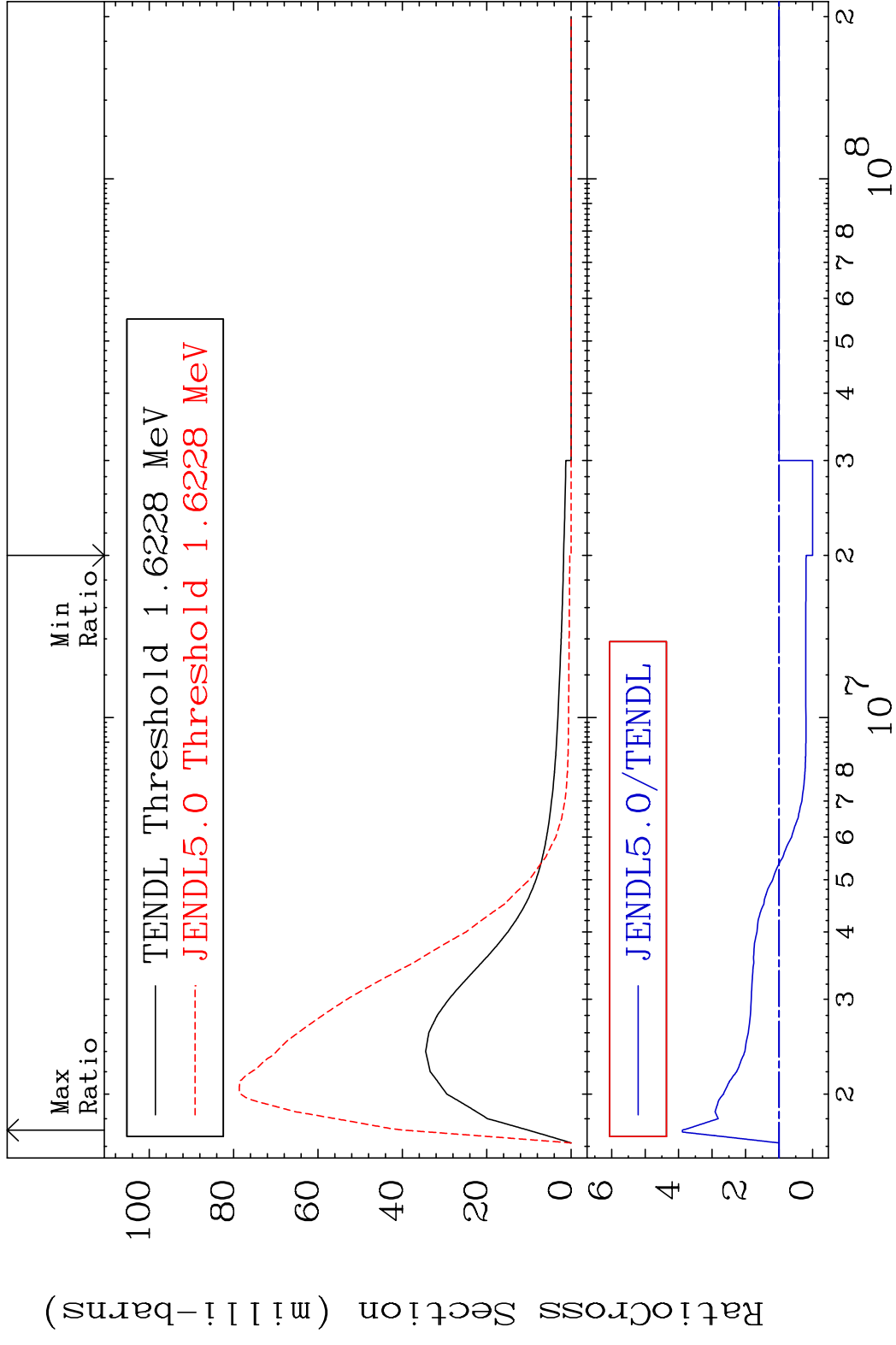
MAT 5143 MT= 58 (n,n') Level 51-Sb-127
 Cross Section -100.0 To 60.18 %



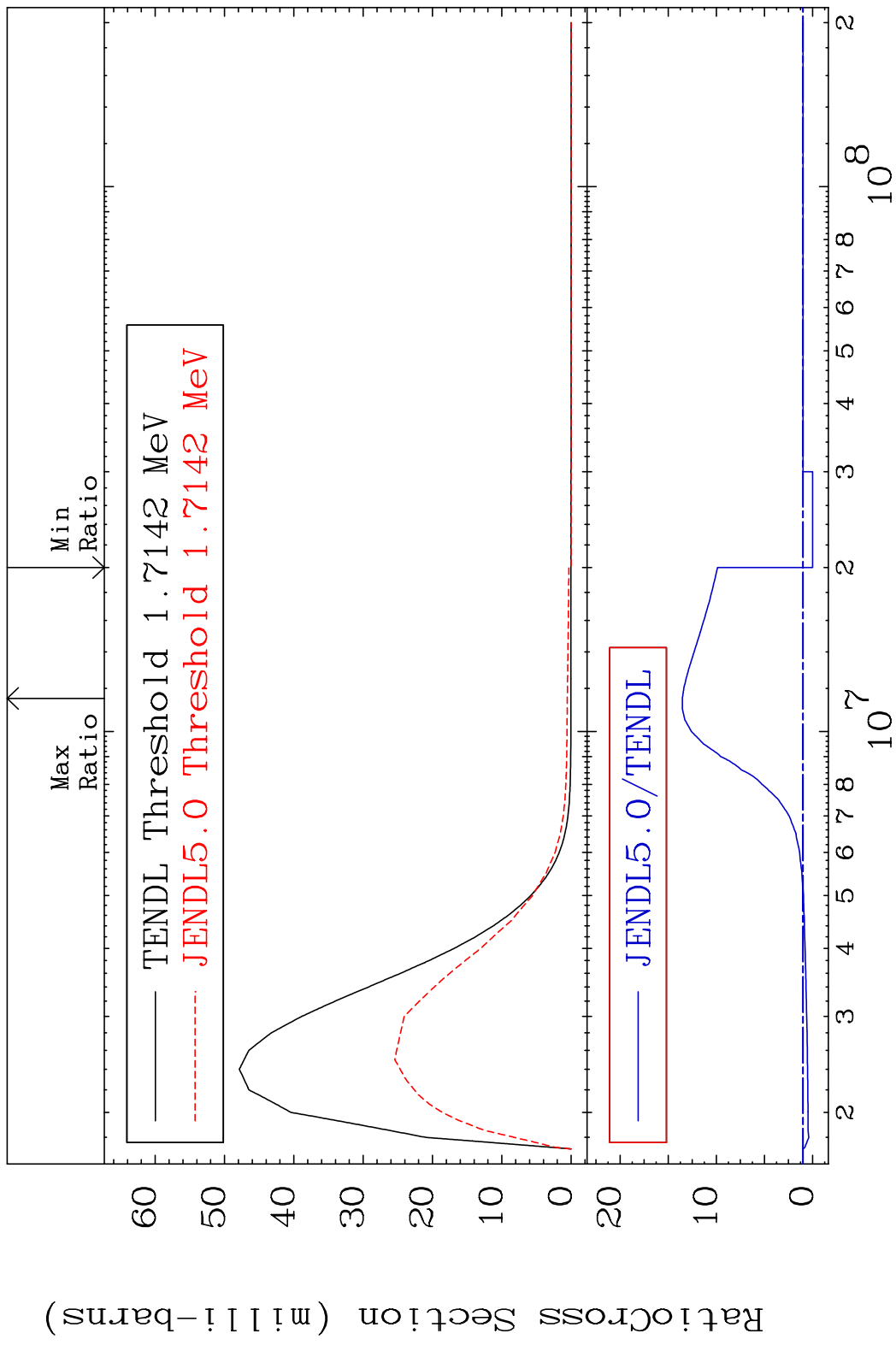
MAT 5143 MT= 59 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 19.91 %



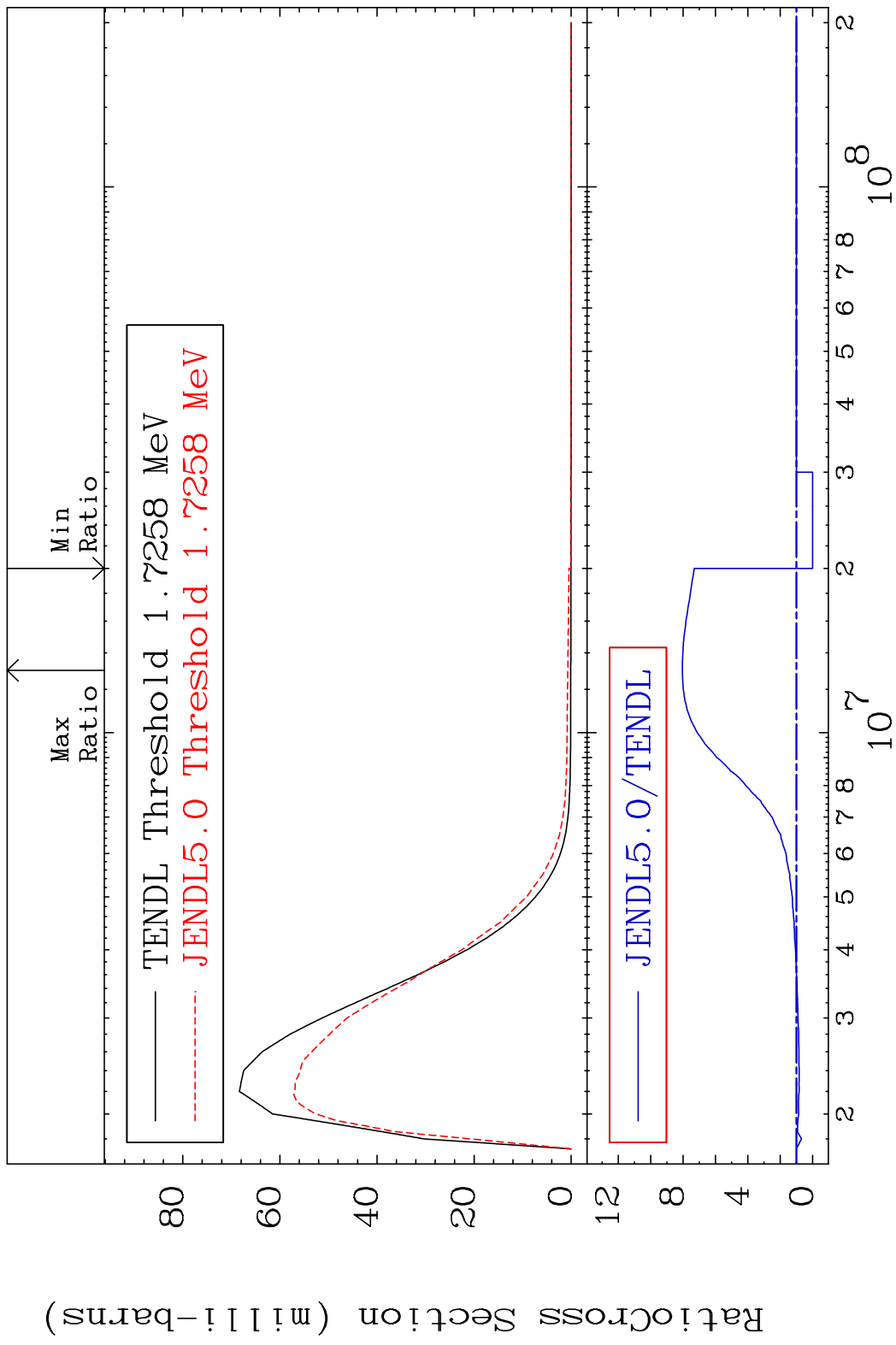
MAT 5143 MT= 60 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 288.8 %



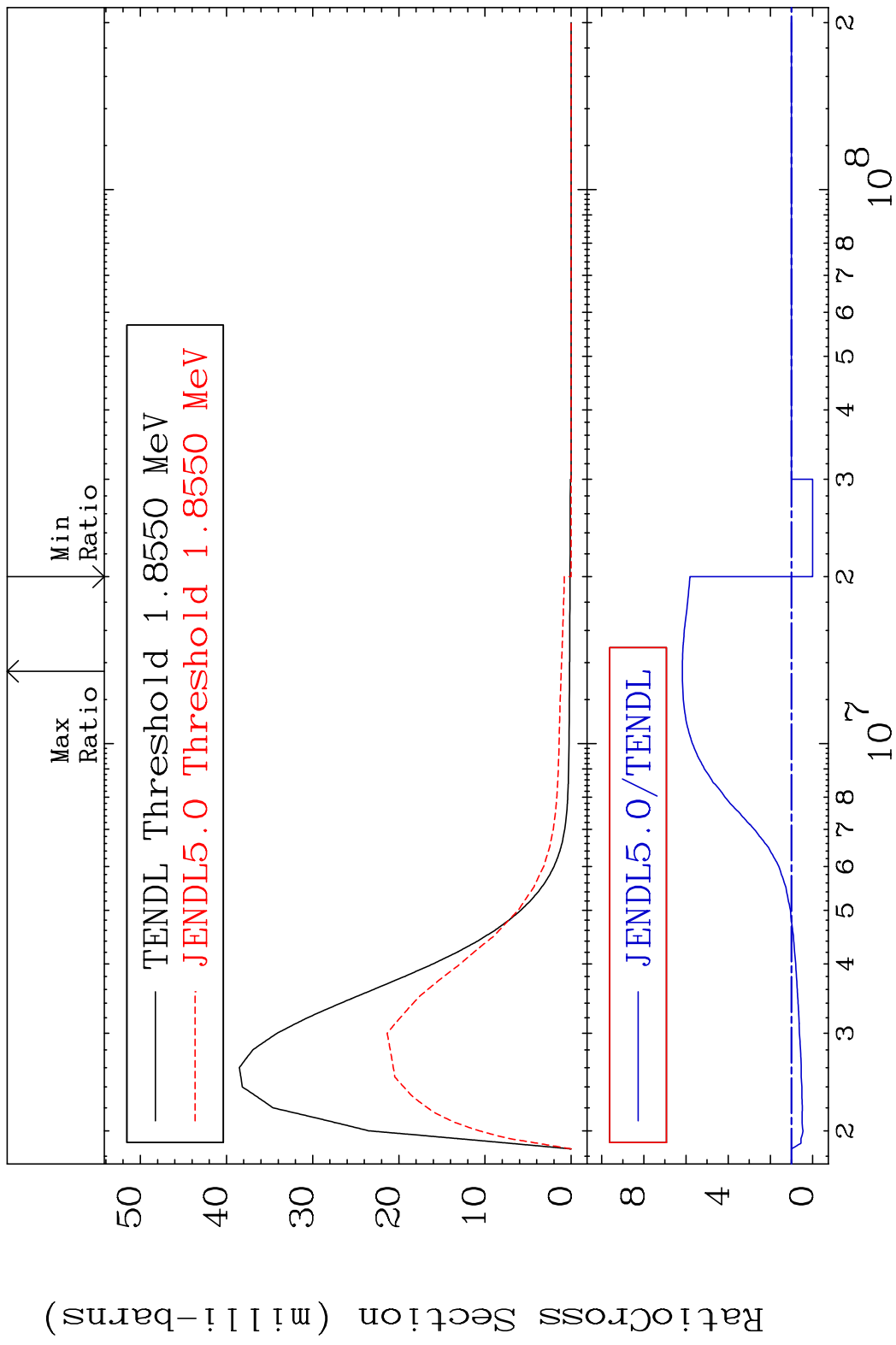
MAT 5143 MT= 61 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 1253. %



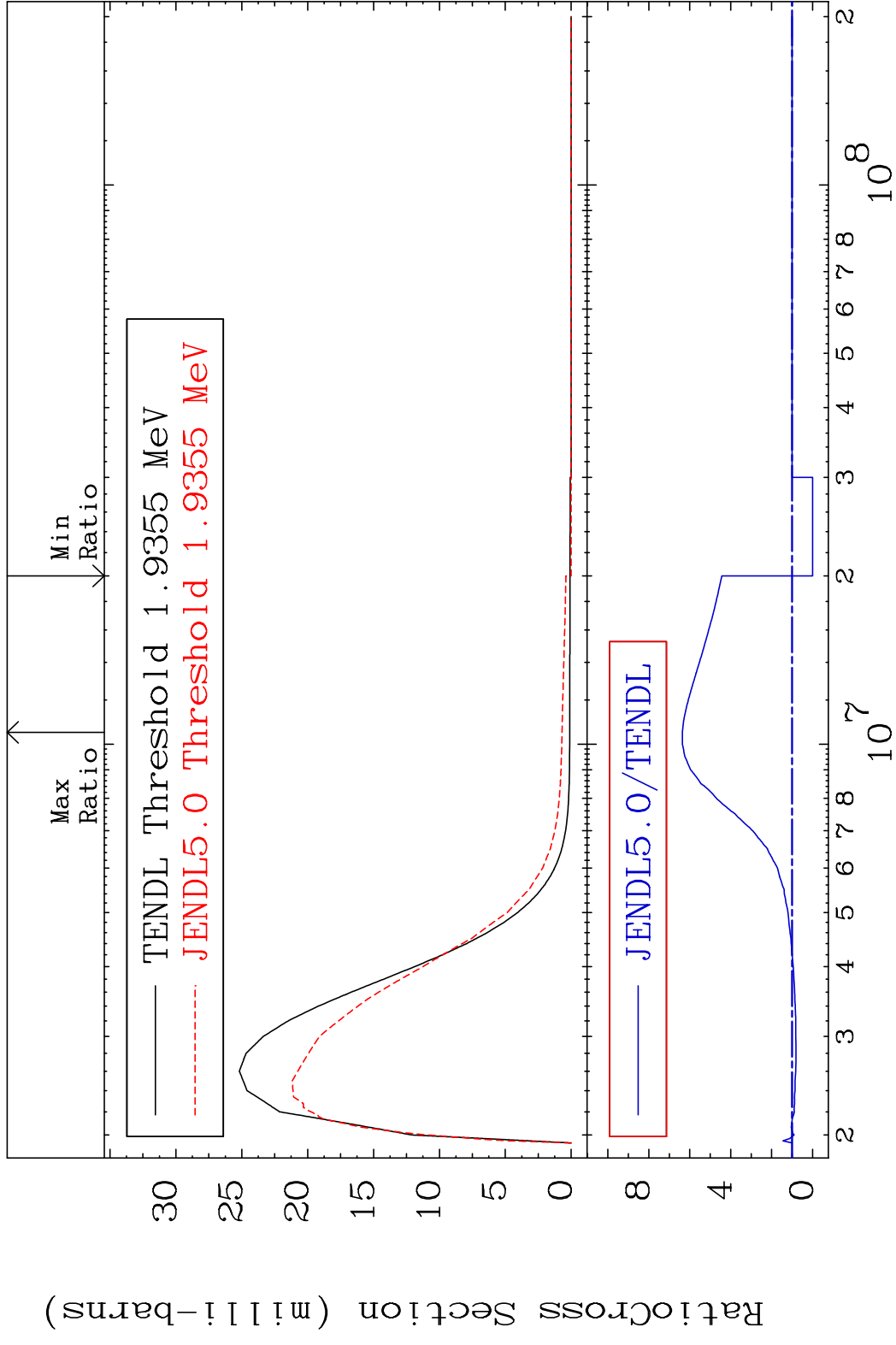
MAT 5143 MT= 62 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 704.4 %



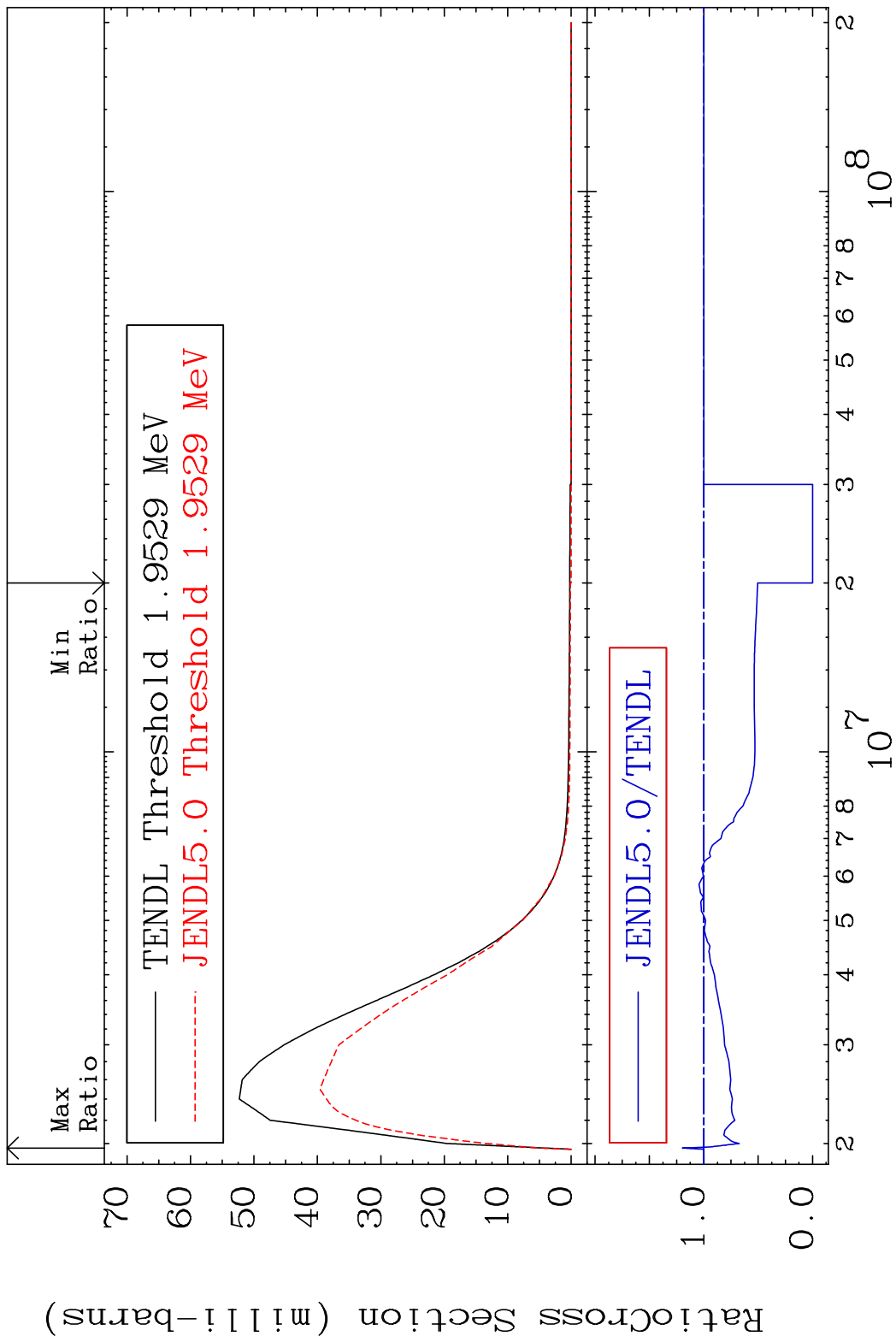
MAT 5143 MT= 63 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 517.4 %



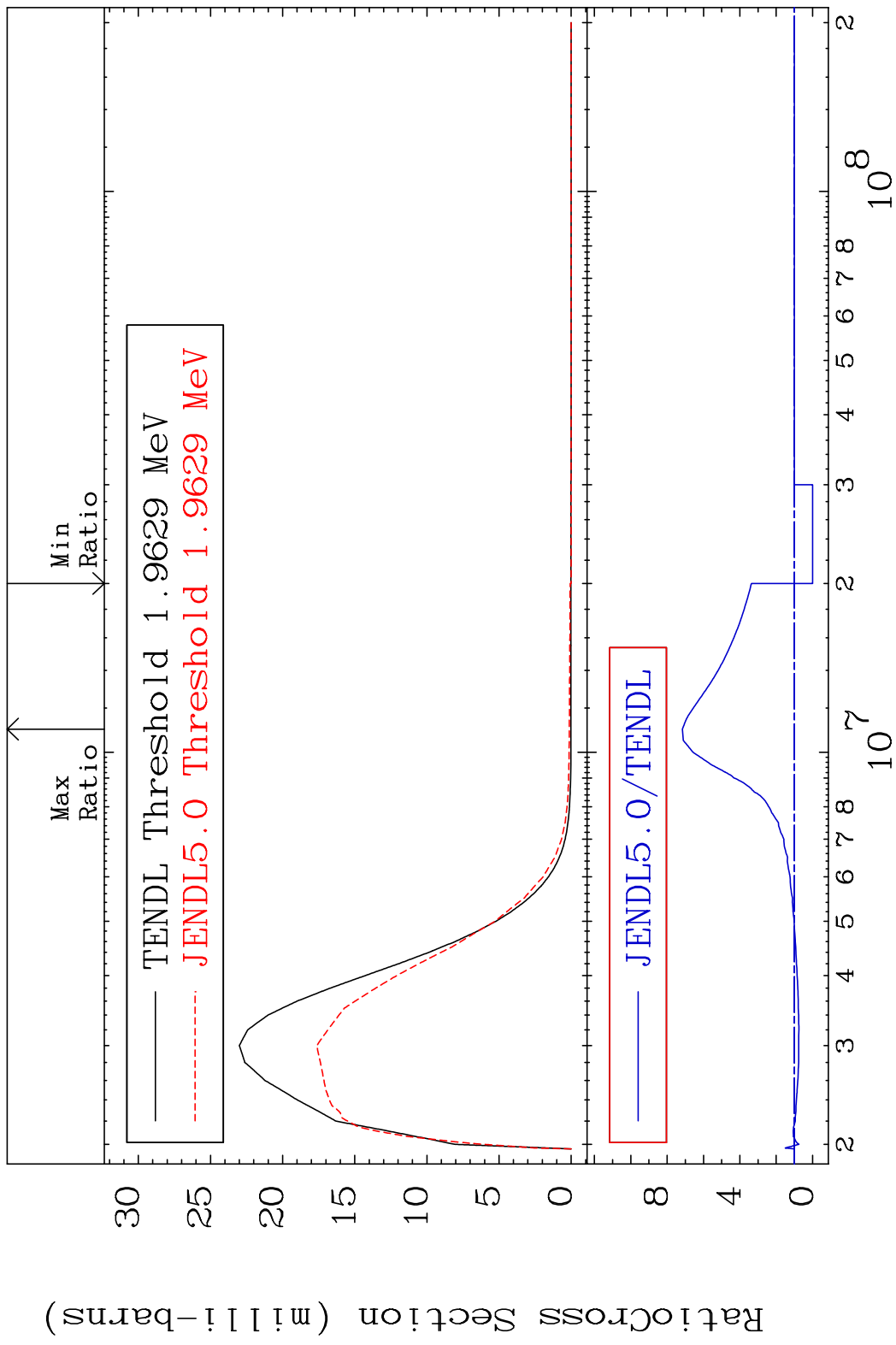
MAT 5143 MT= 64 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 536.1 %



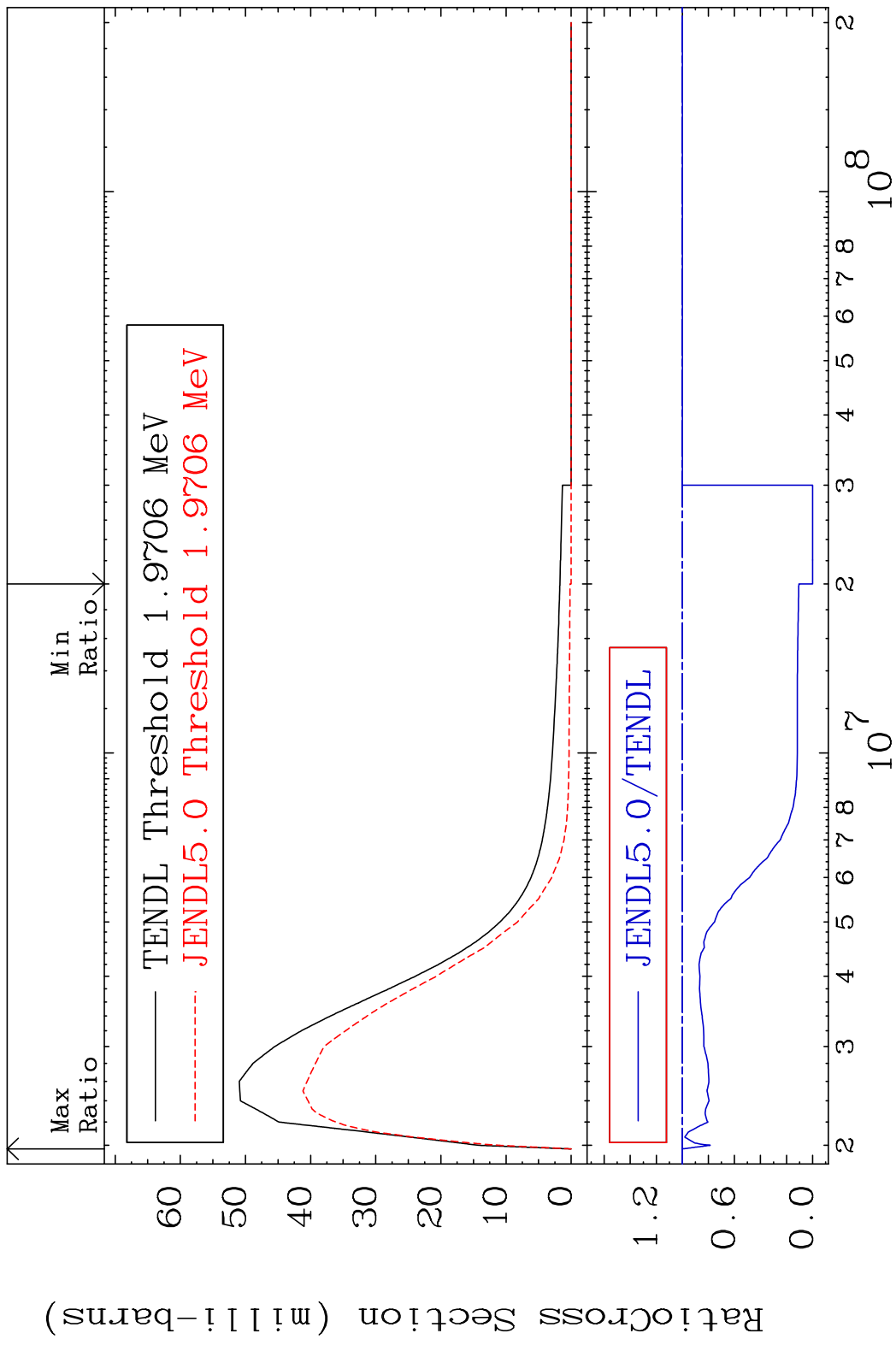
MAT 5143 MT= 65 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 19.73 %



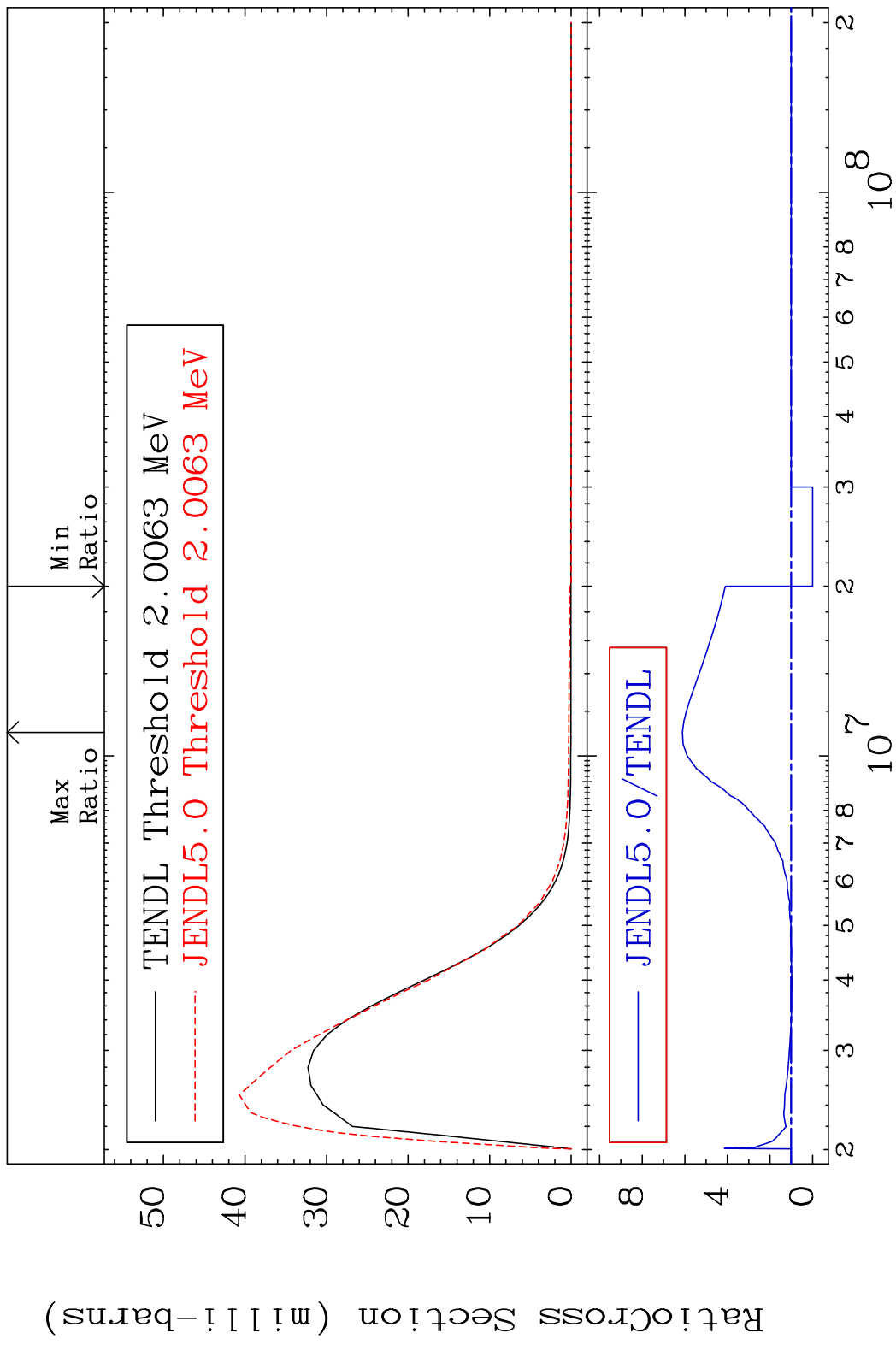
MAT 5143 MT= 66 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 616.3 %



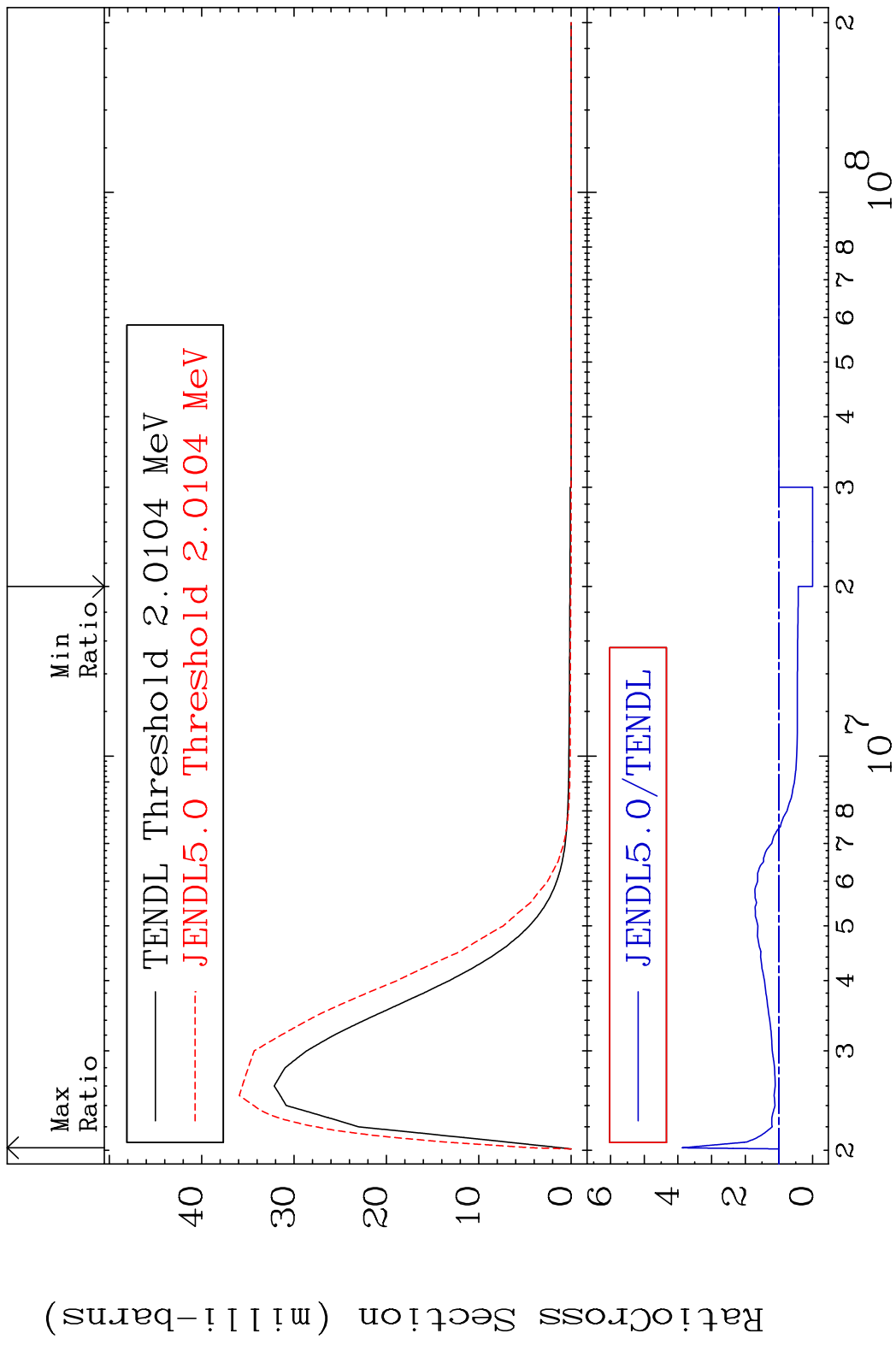
MAT 5143 MT= 67 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 0.000 %



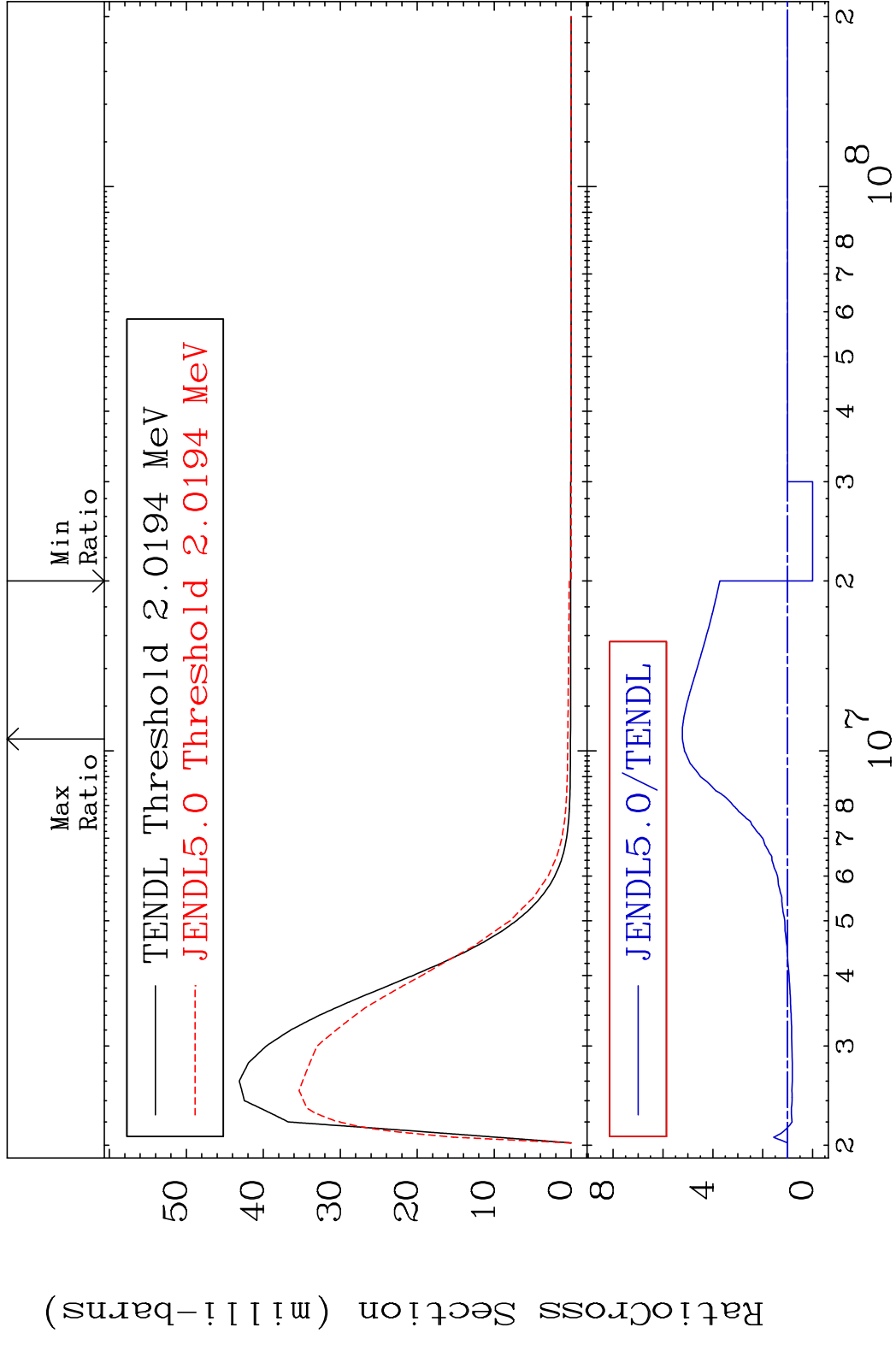
MAT 5143 MT= 68 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 511.4 %



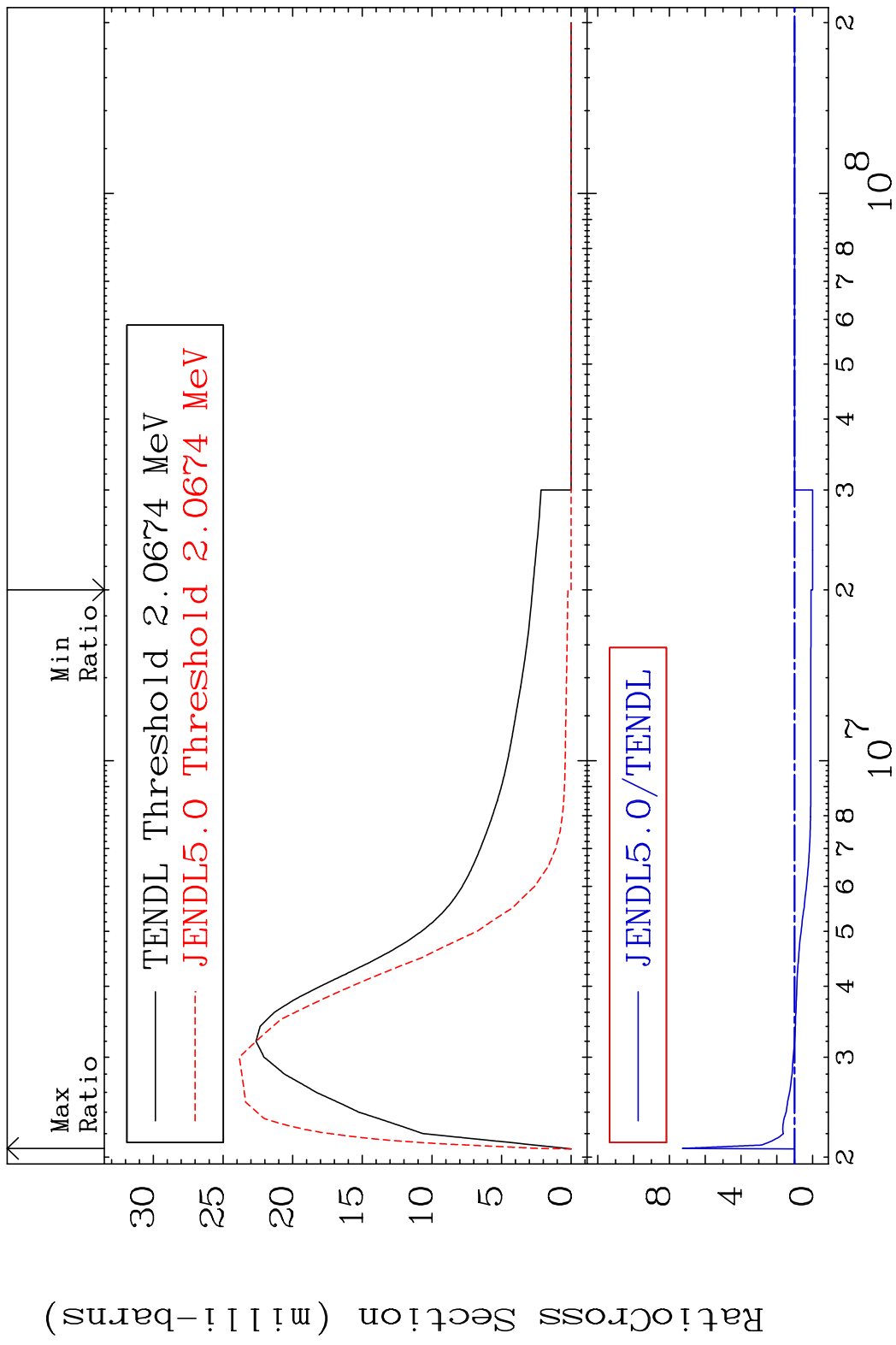
MAT 5143 MT= 69 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 286.8 %



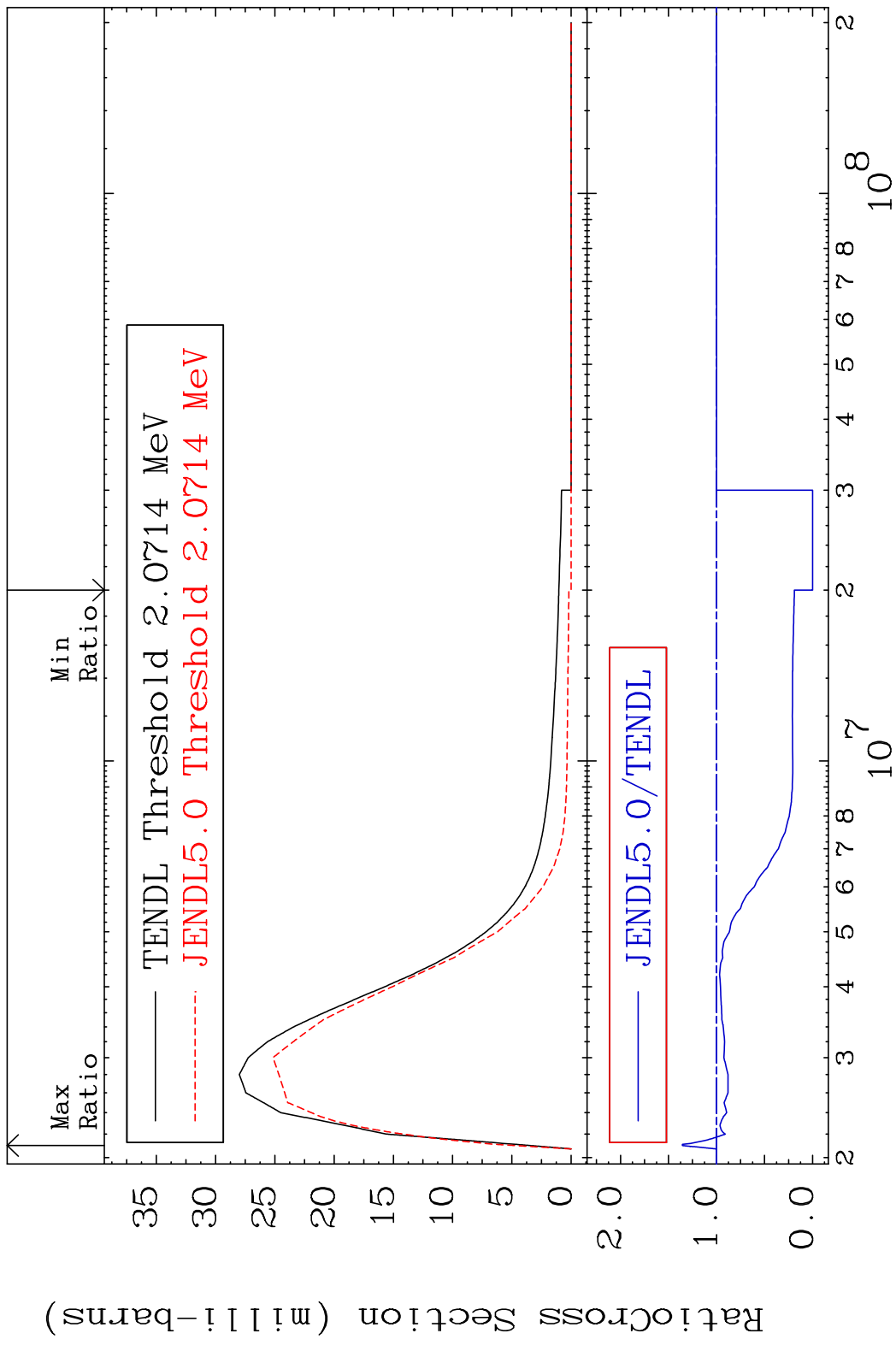
MAT 5143 MT= 70 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 422.4 %



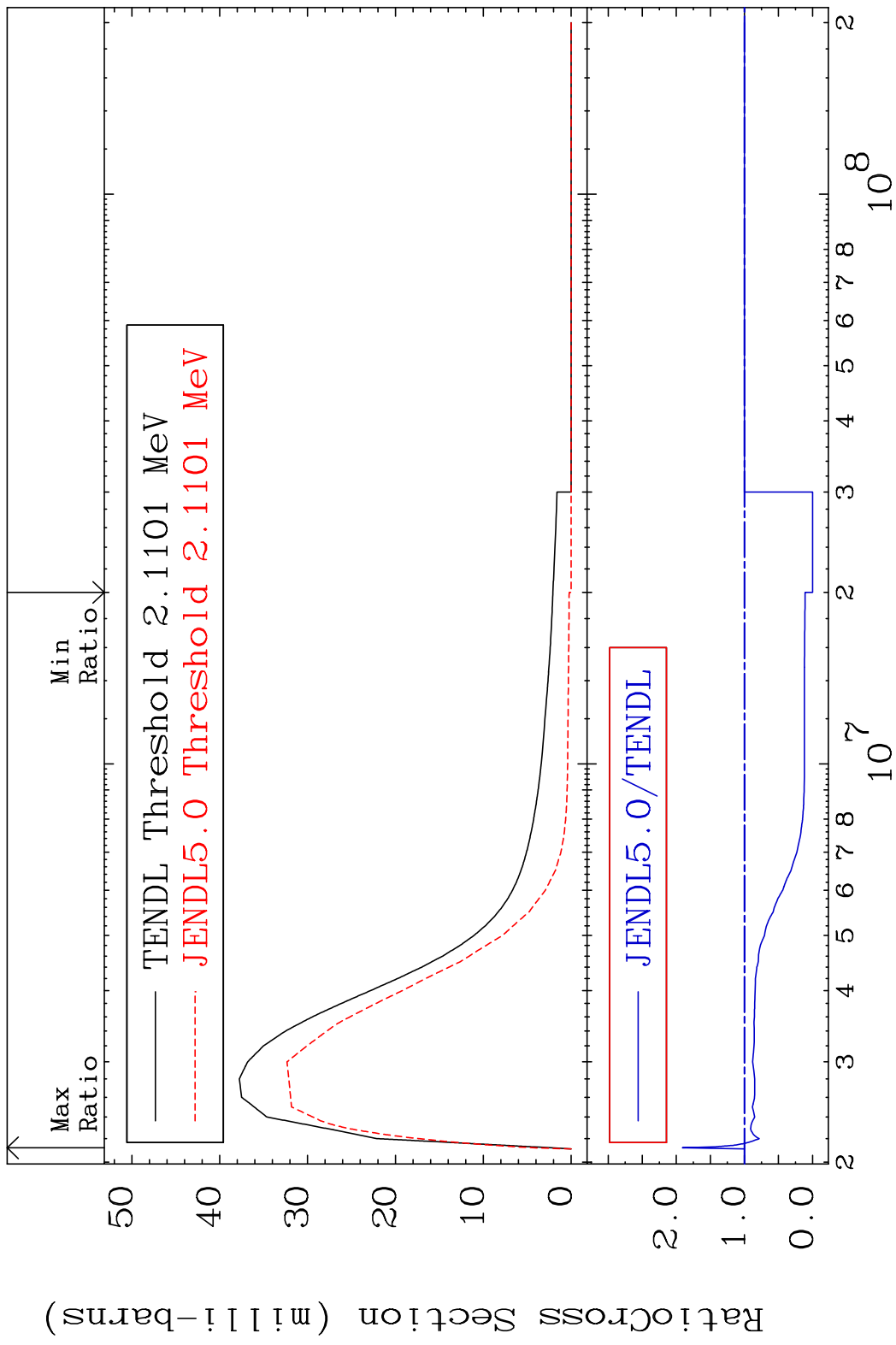
MAT 5143 MT= 71 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 627.2 %



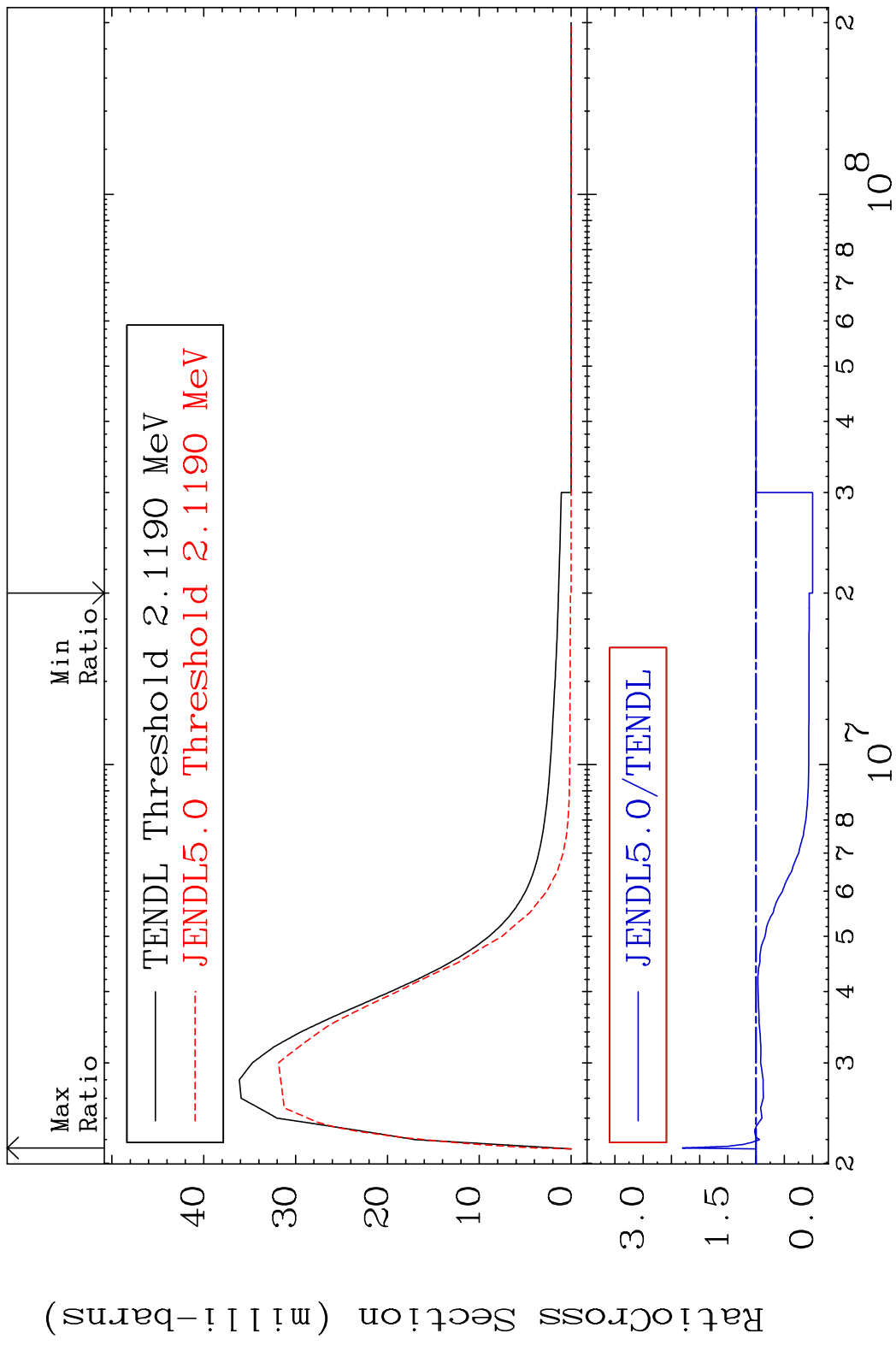
MAT 5143 MT= 72 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 35.60 %



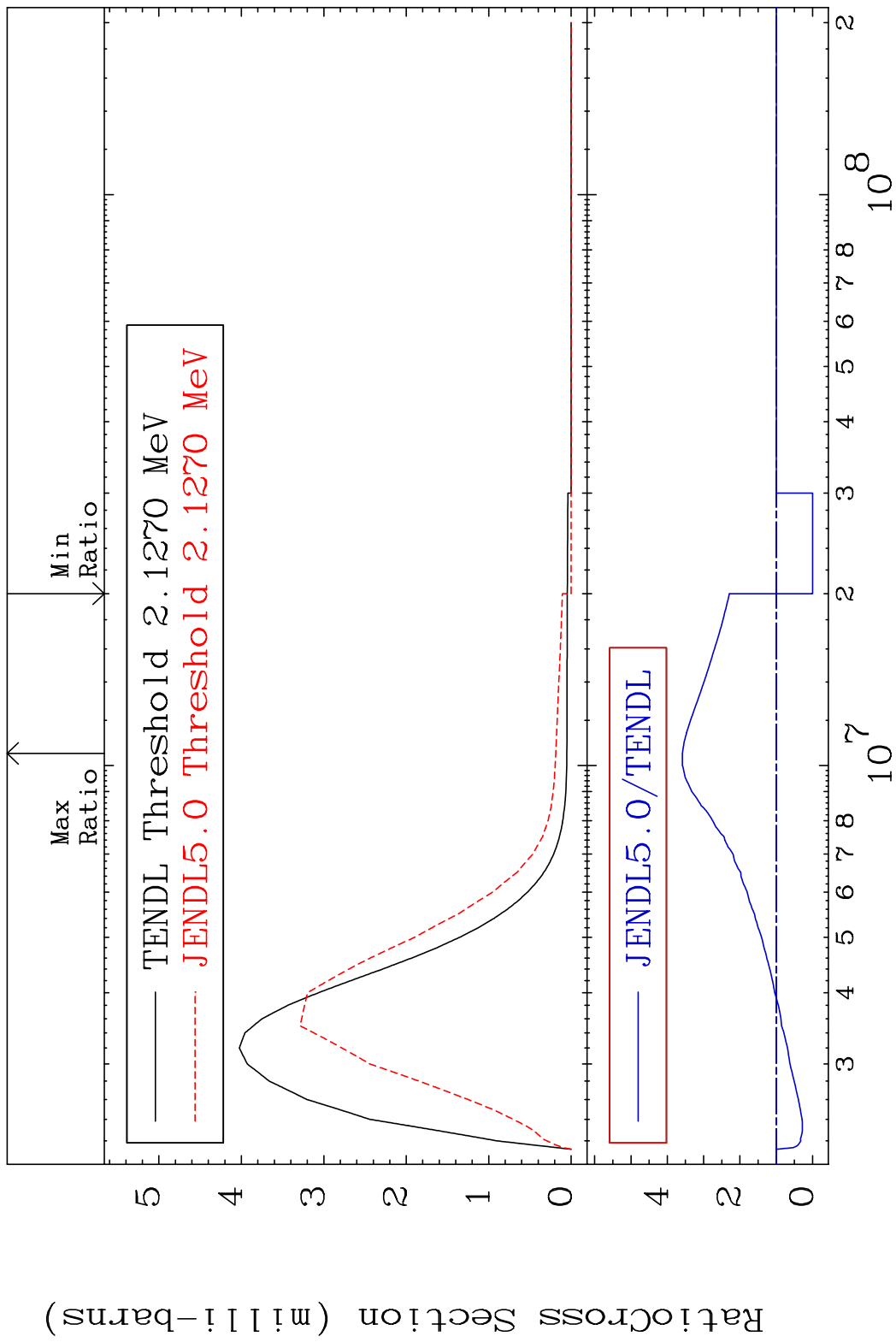
MAT 5143 MT= 73 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 91.16 %



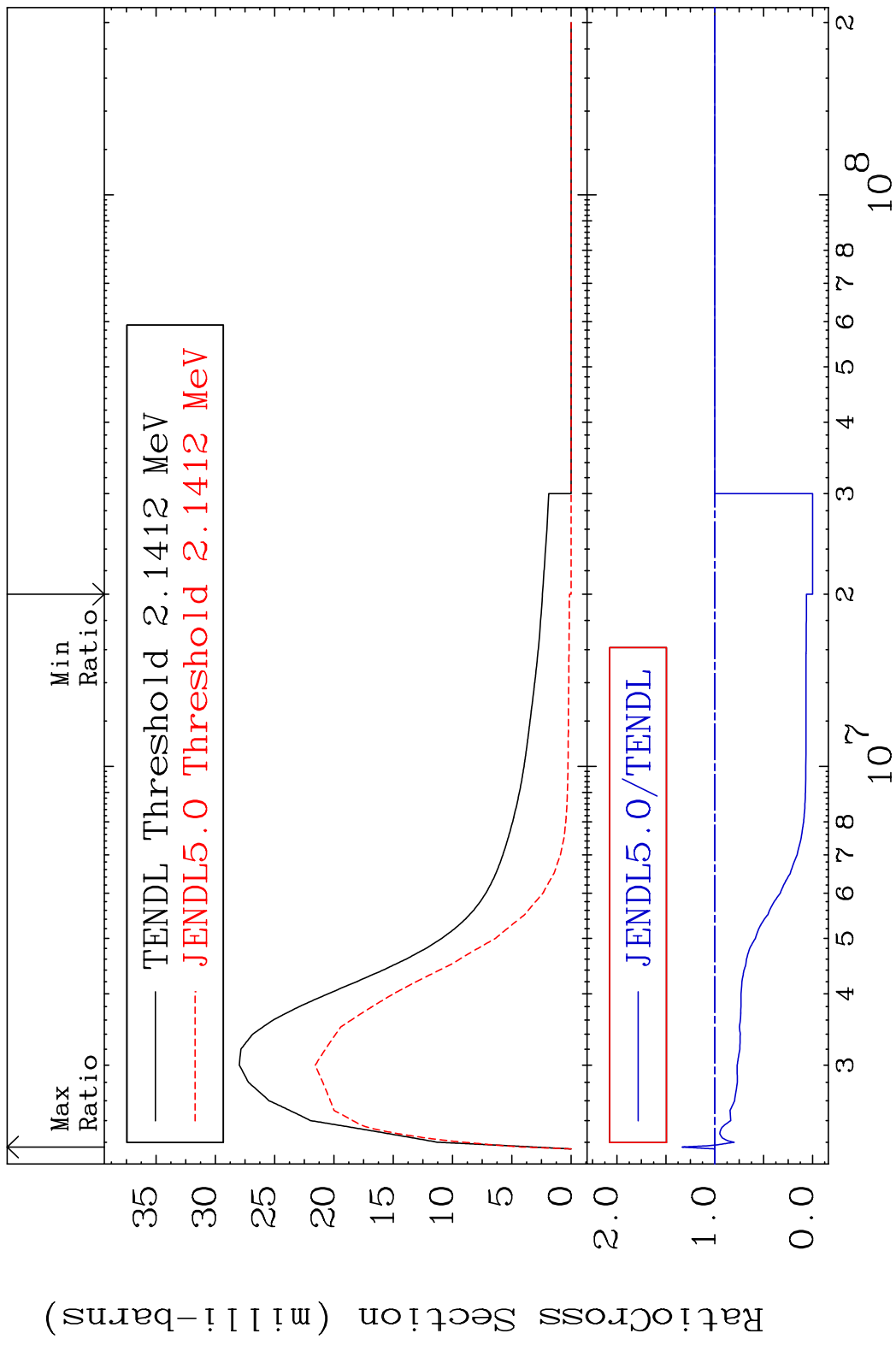
MAT 5143 MT= 74 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 130.6 %



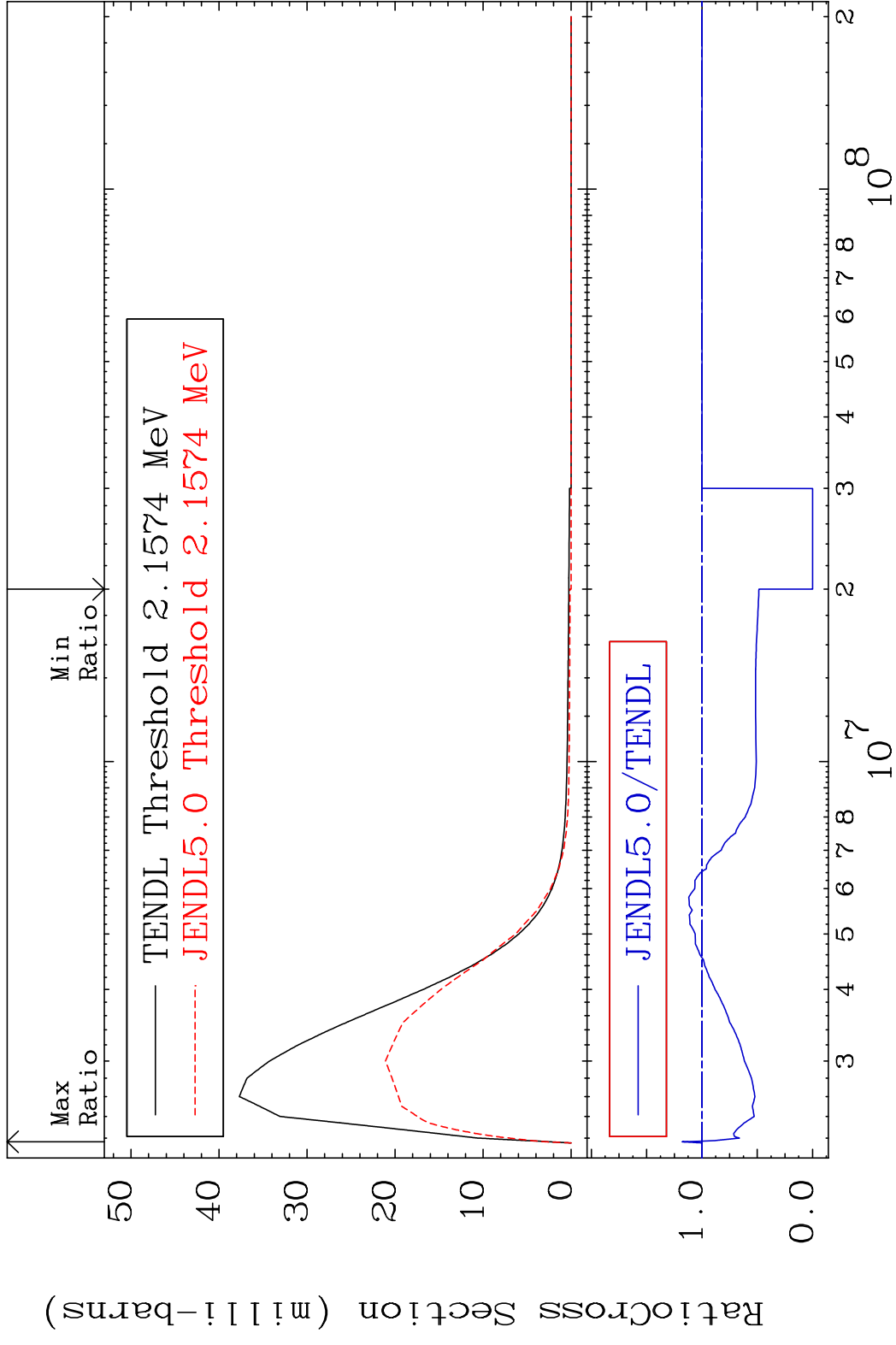
MAT 5143 MT= 75 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 258.6 %



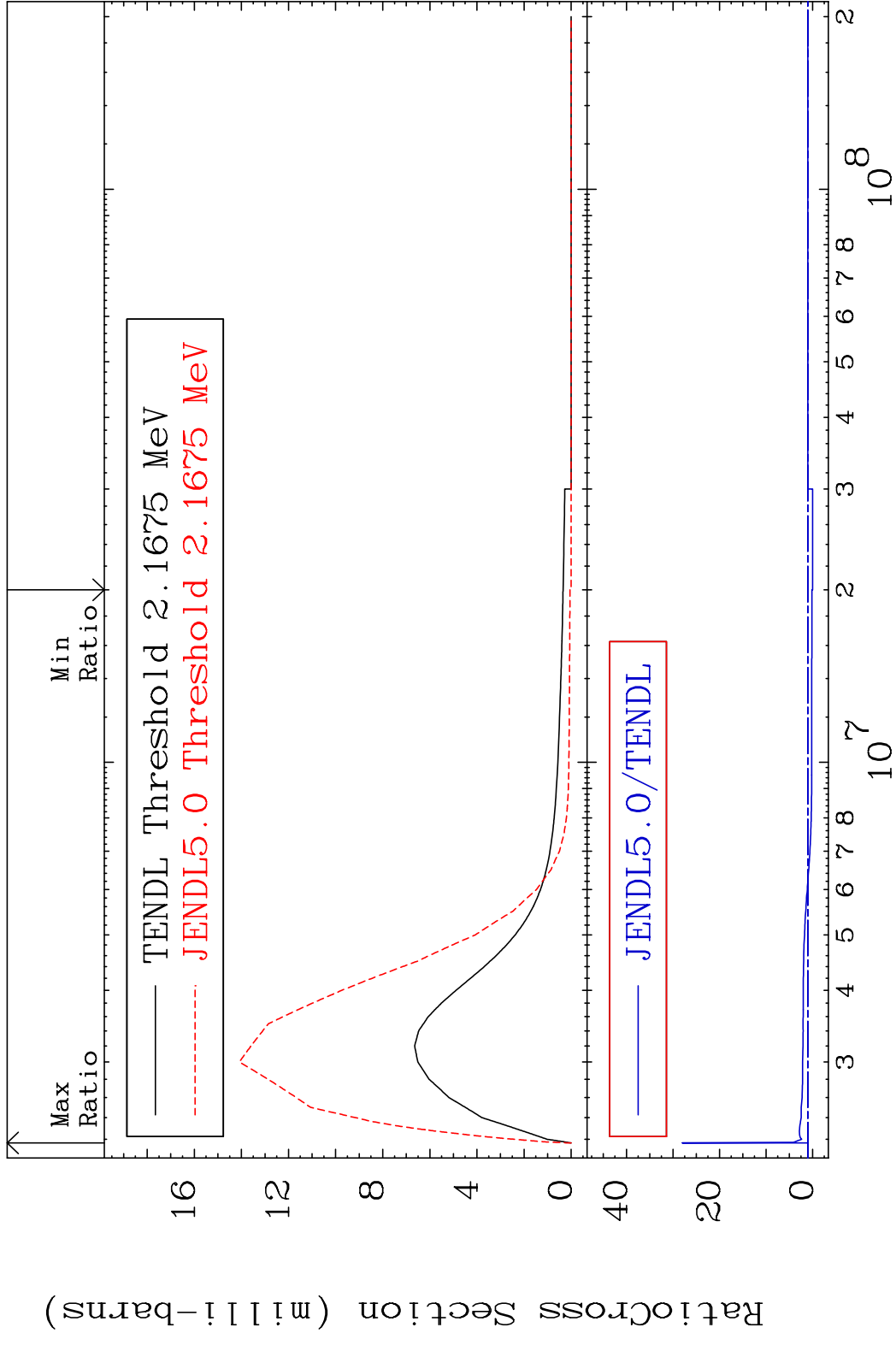
MAT 5143 MT= 76 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 33.15 %



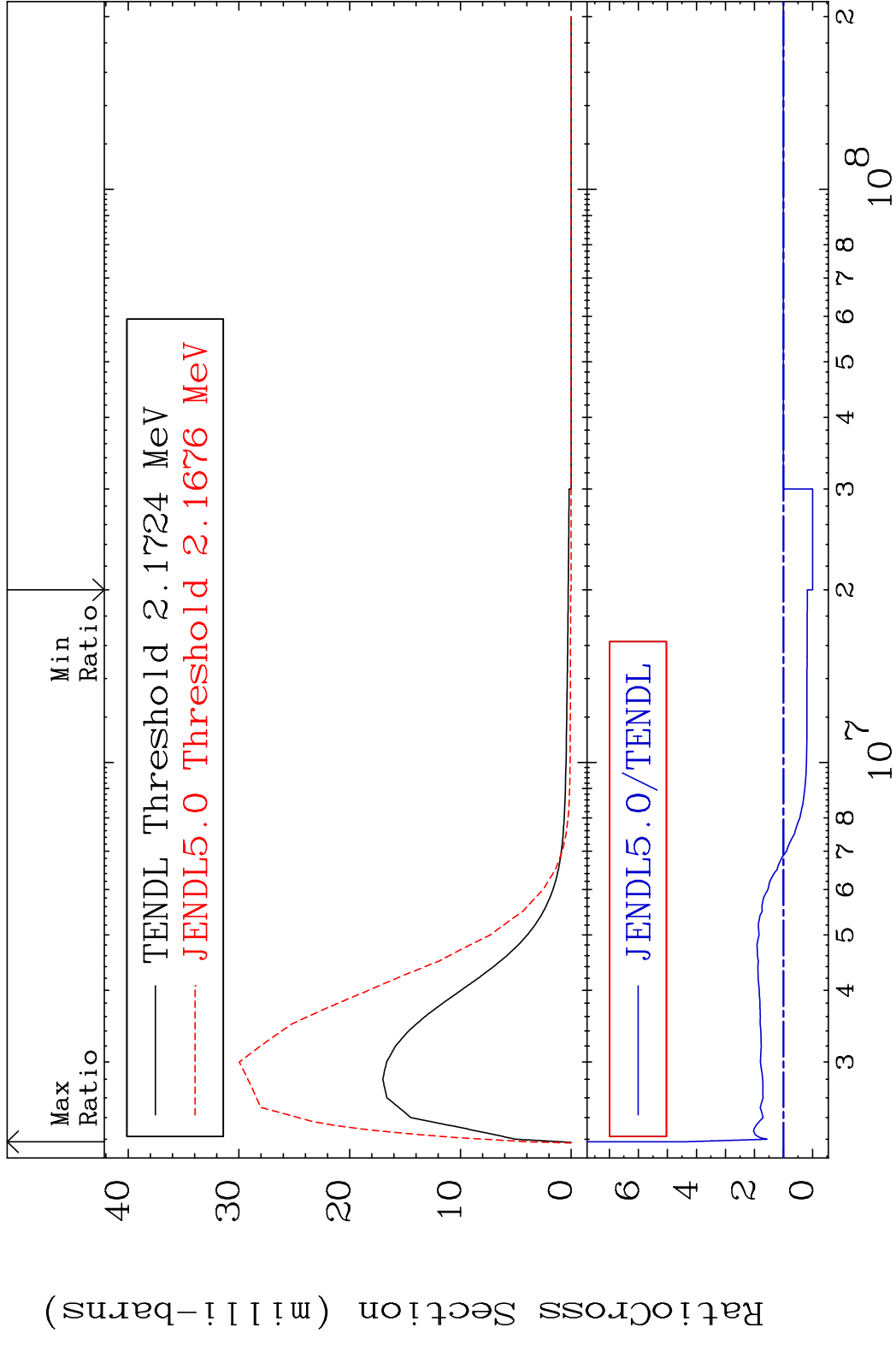
MAT 5143 MT= 77 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 17.73 %



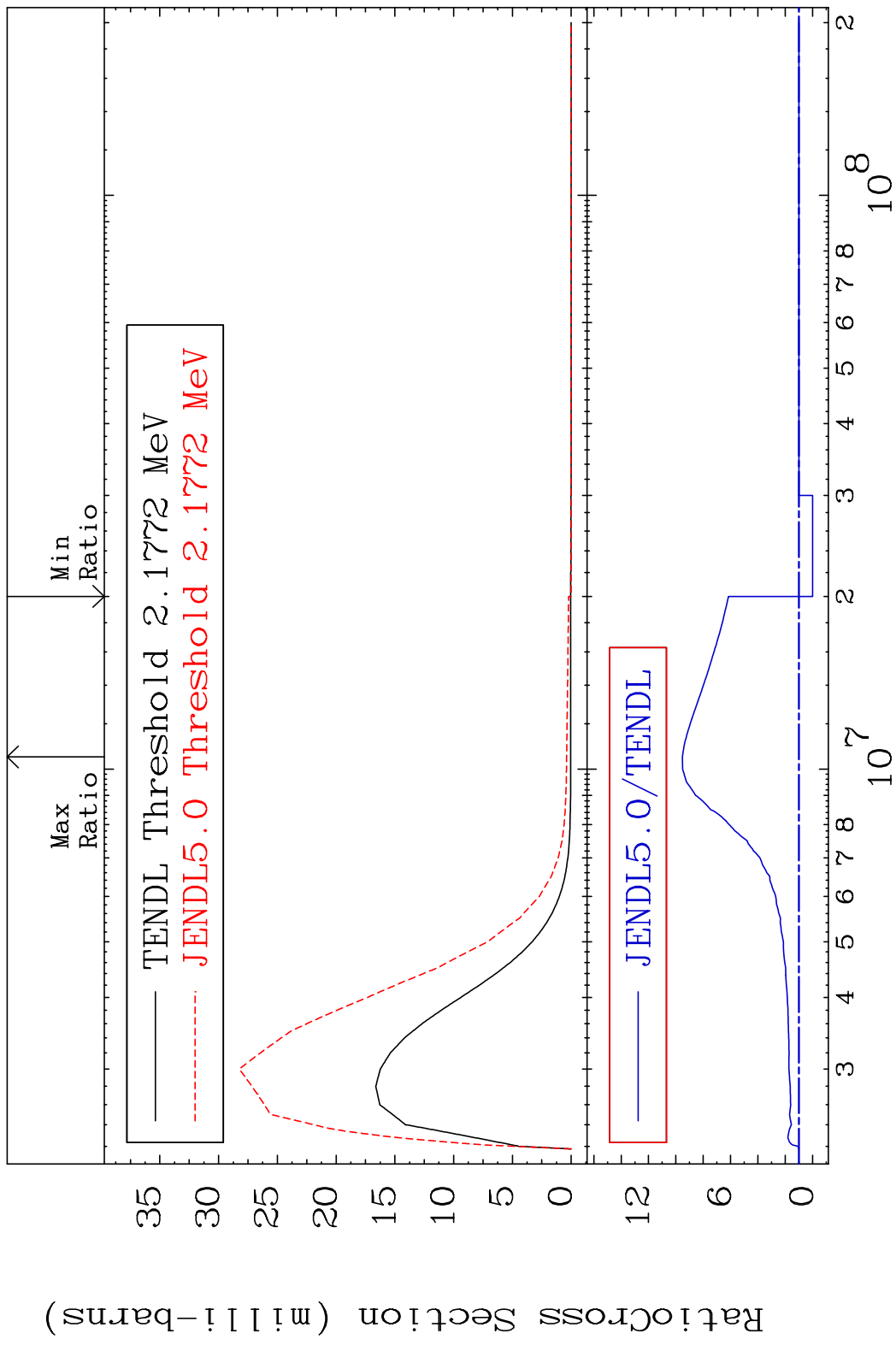
MAT 5143 MT= 78 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 2698. %



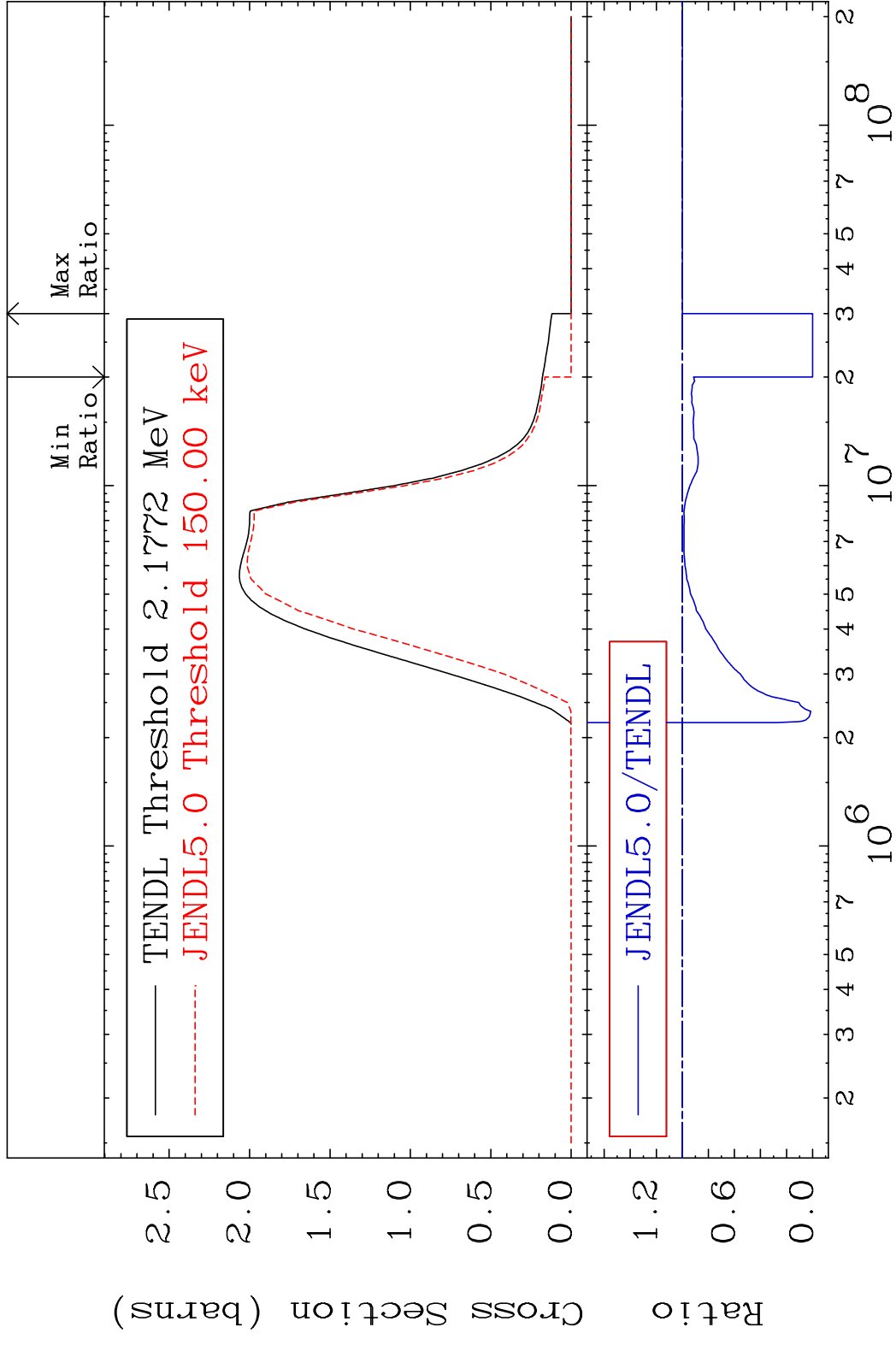
MAT 5143 MT= 79 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 348.5 %



MAT 5143 MT= 80 (n, n') Level 51-Sb-127
 Cross Section -100.0 To 852.5 %



40 Incident Energy (eV) 51-Sb-127

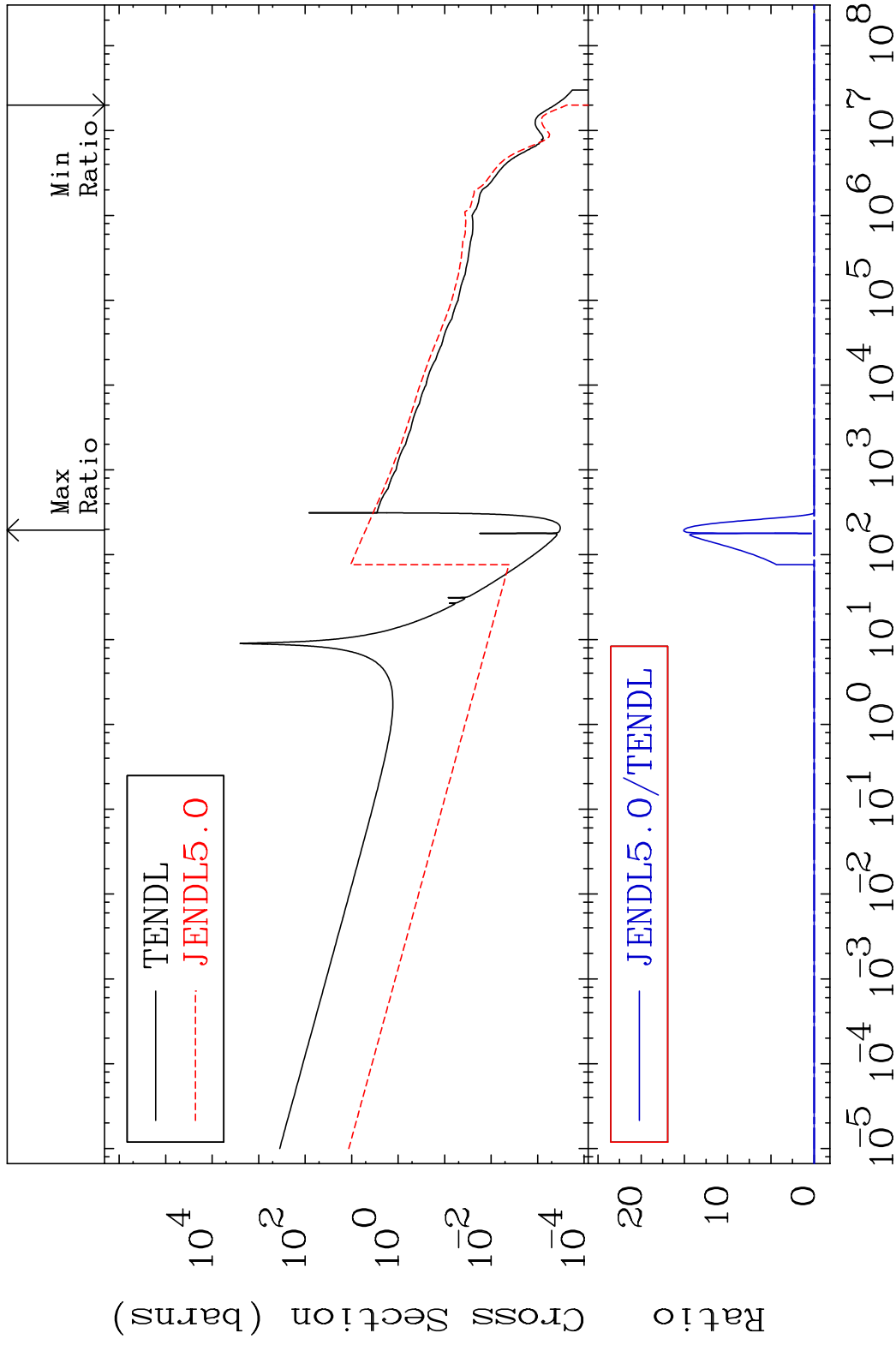


MAT 5143

(n, γ)

51-Sb-127

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

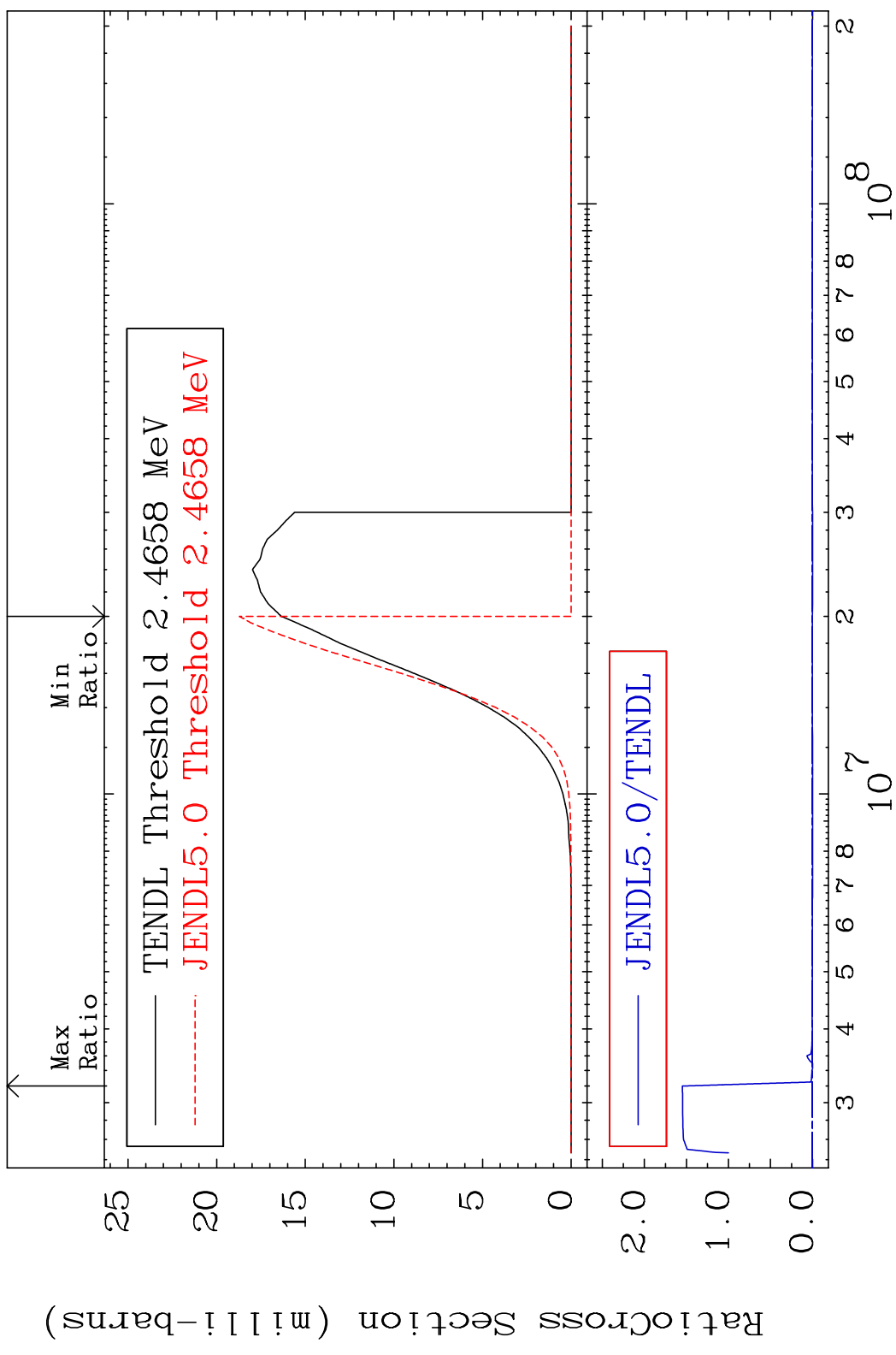
51-Sb-127

MAT 5143

(n,p)

51-Sb-127

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

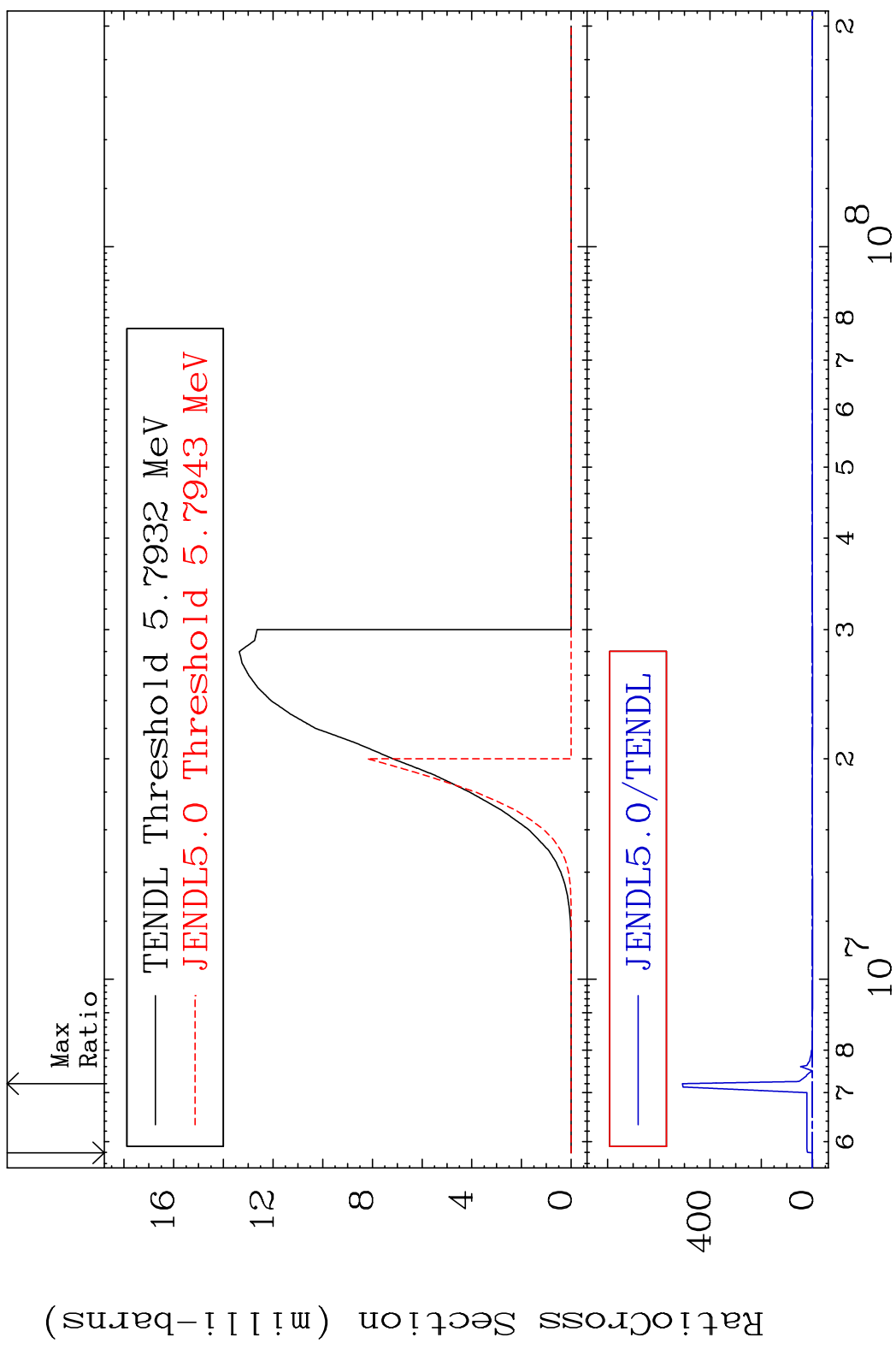
51-Sb-127

MAT 5143

(n,d)

51-Sb-127

Cross Section -100.0 To 9999. %

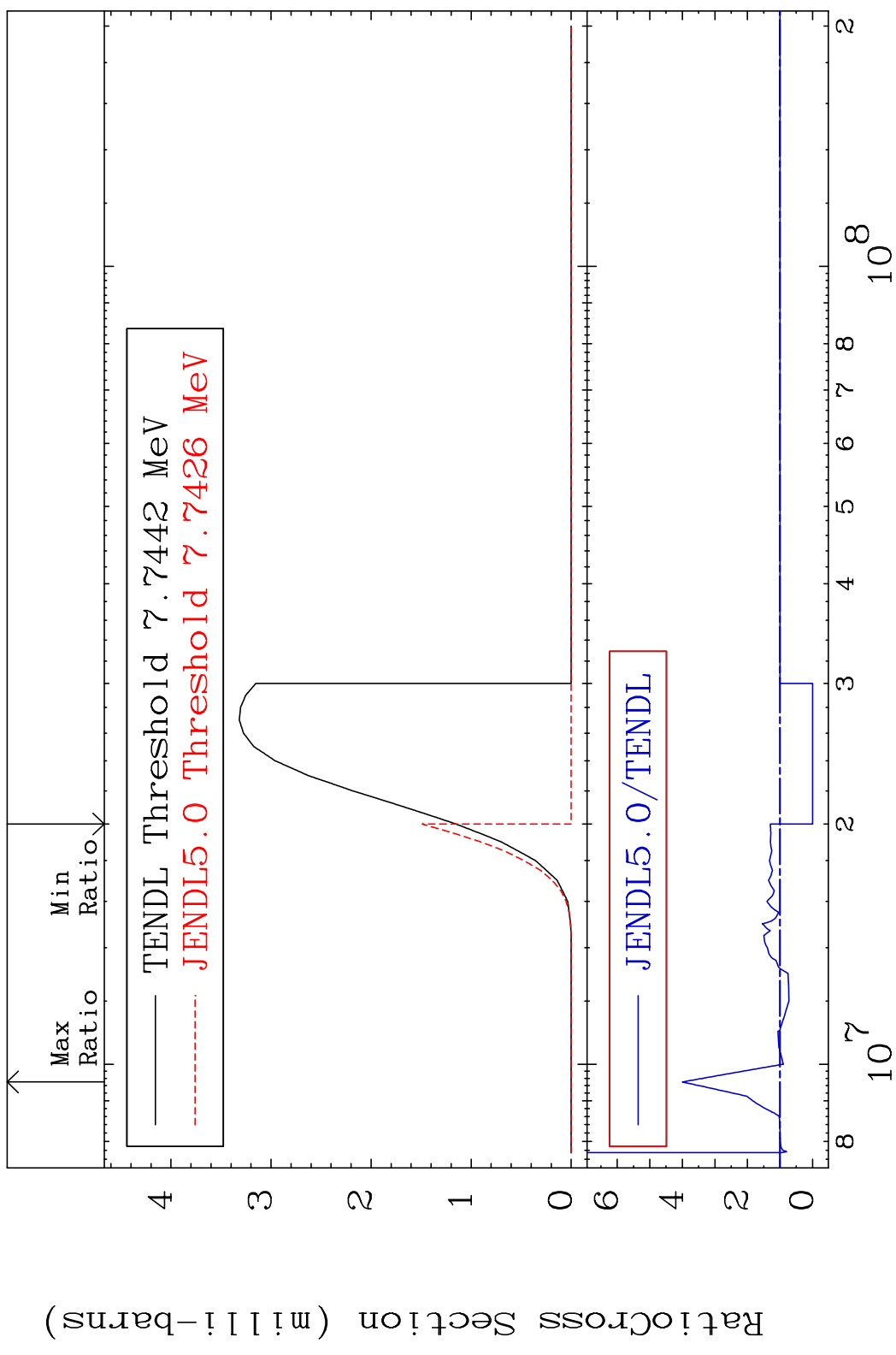


MAT 5143

(n, t)

51-Sb-127

Cross Section -100.0 To 300.0 %



45

Incident Energy (eV)

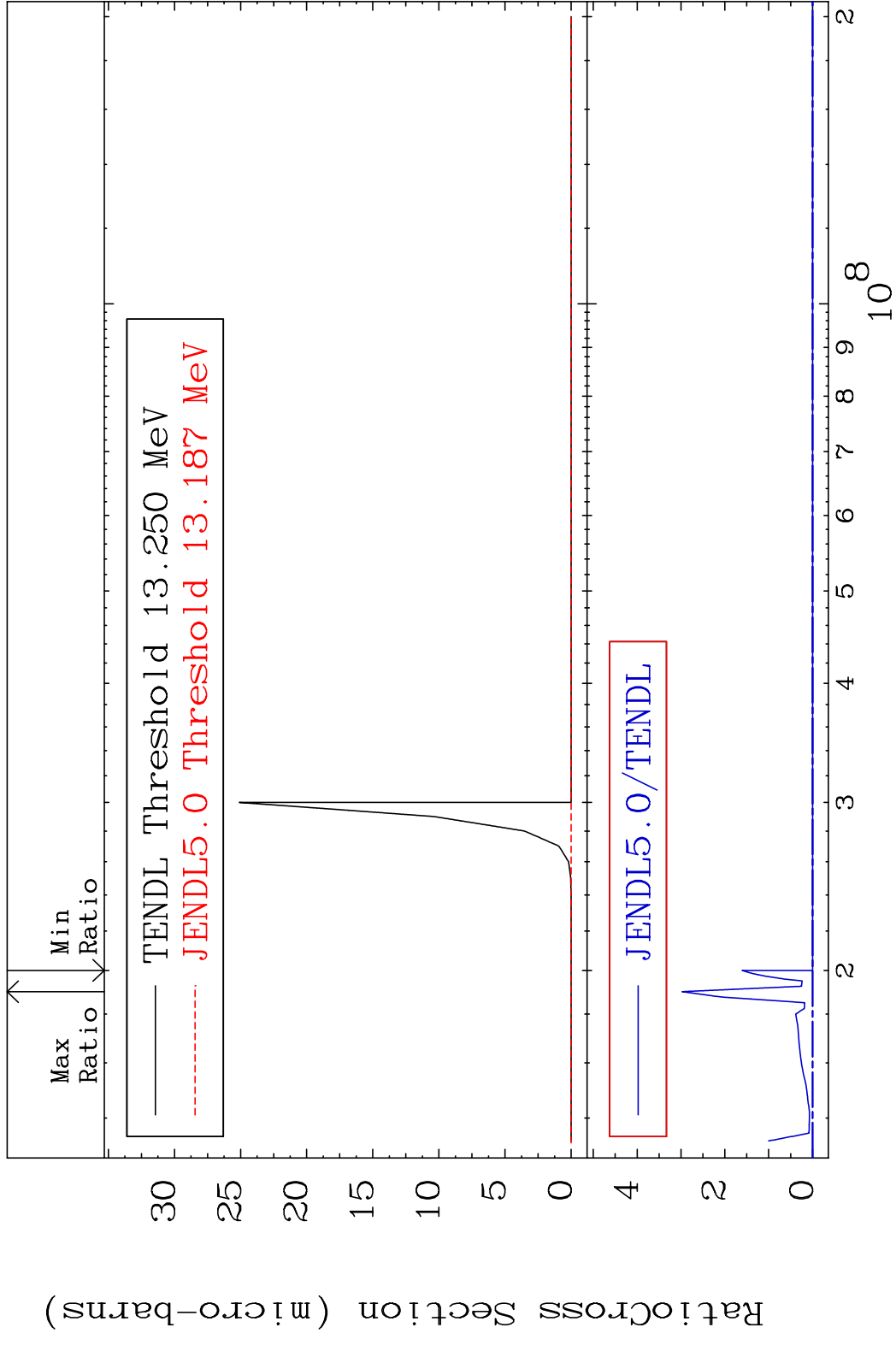
51-Sb-127

MAT 5143

(n, He-3)

51-Sb-127

Cross Section -100.0 To 9999. %

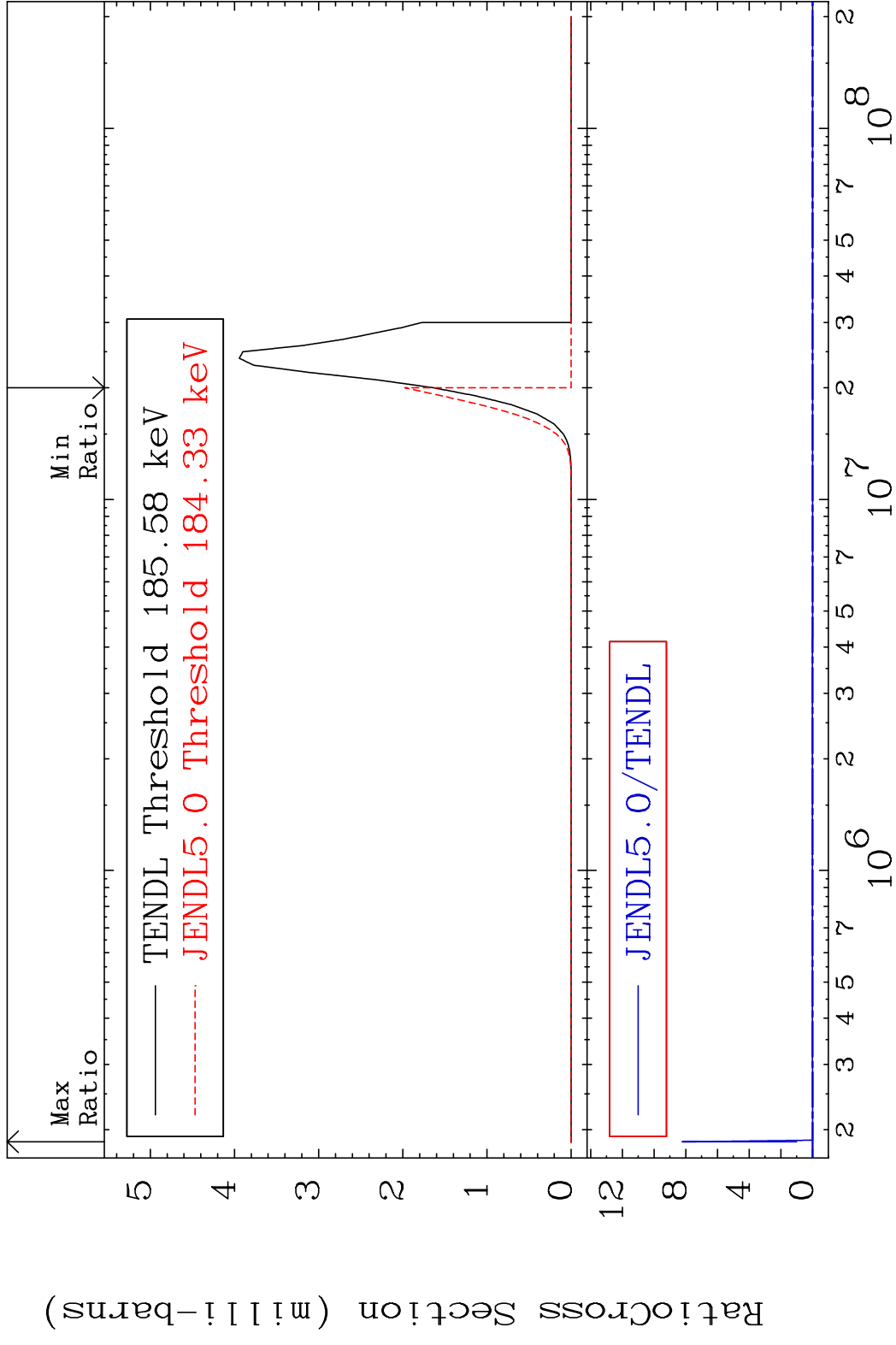


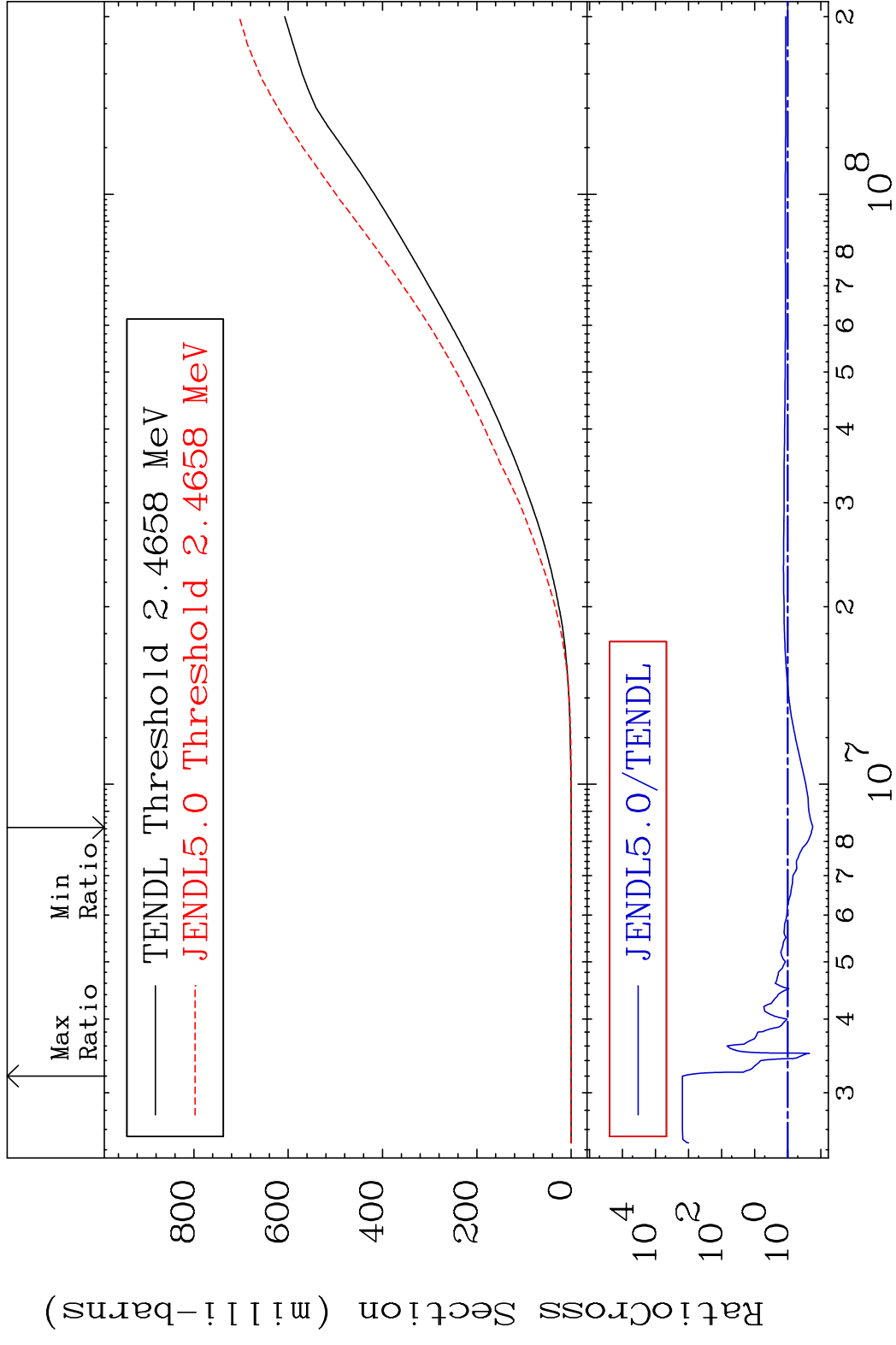
MAT 5143

(n, α)

51-Sb-127

Cross Section -100.0 To 9999. %



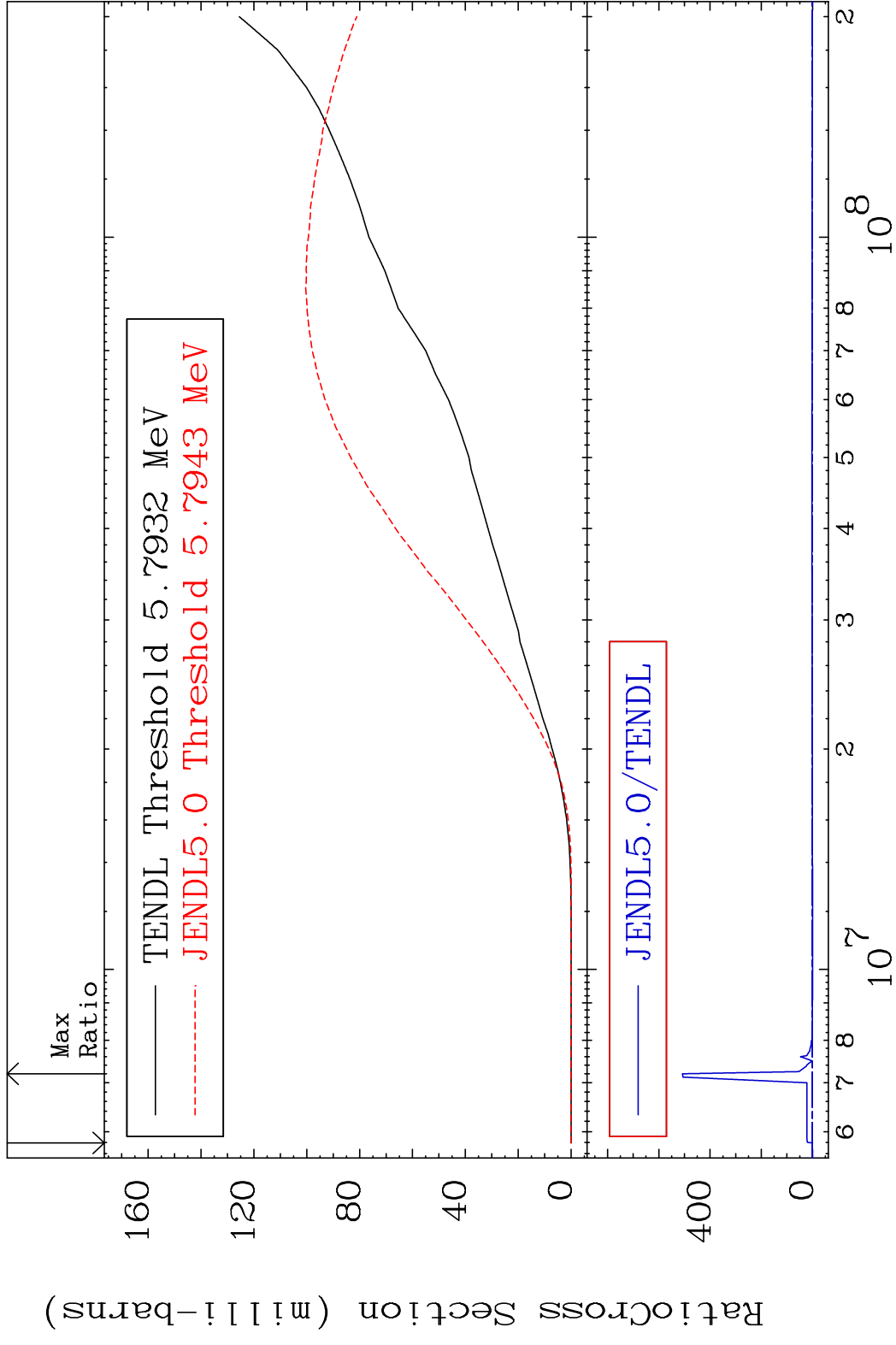


MAT 5143

Deuterium Production

51-Sb-127

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

51-Sb-127

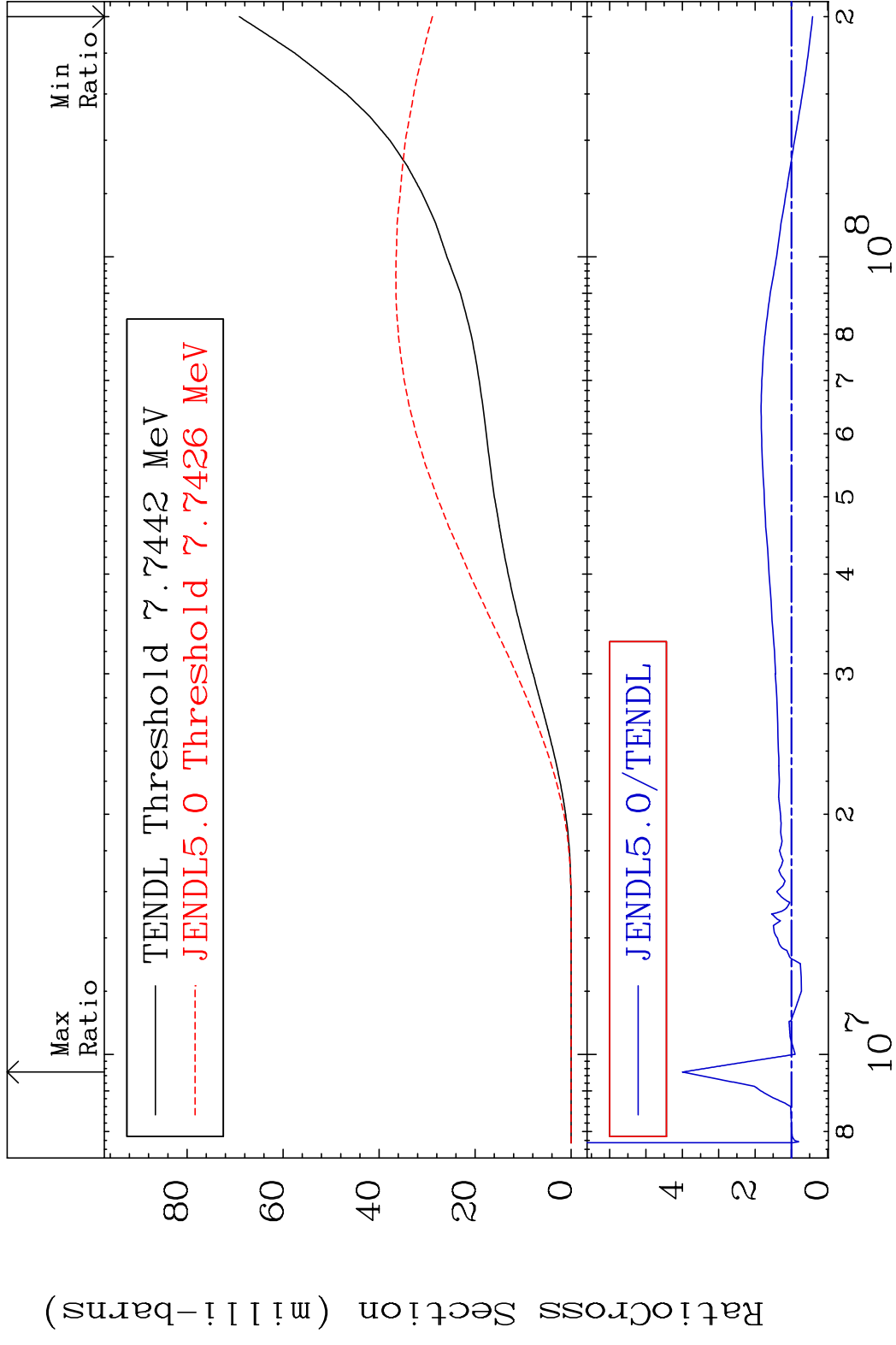
MAT 5143

Tritium Production

51-Sb-127

Cross Section

-58.18 To 300.0 %

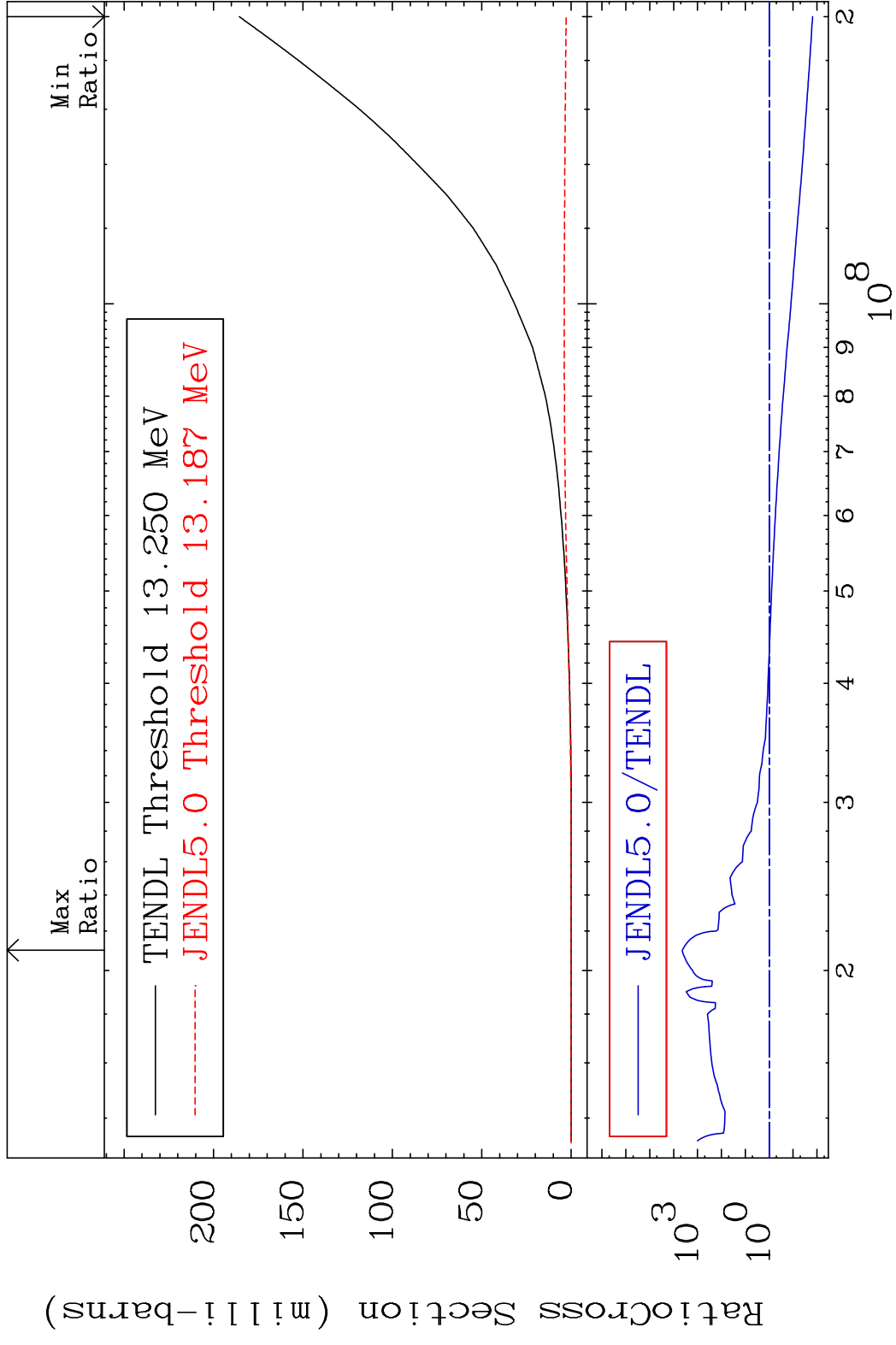


50

Incident Energy (eV)

51-Sb-127

Cross Section -98.47 To 9999. %

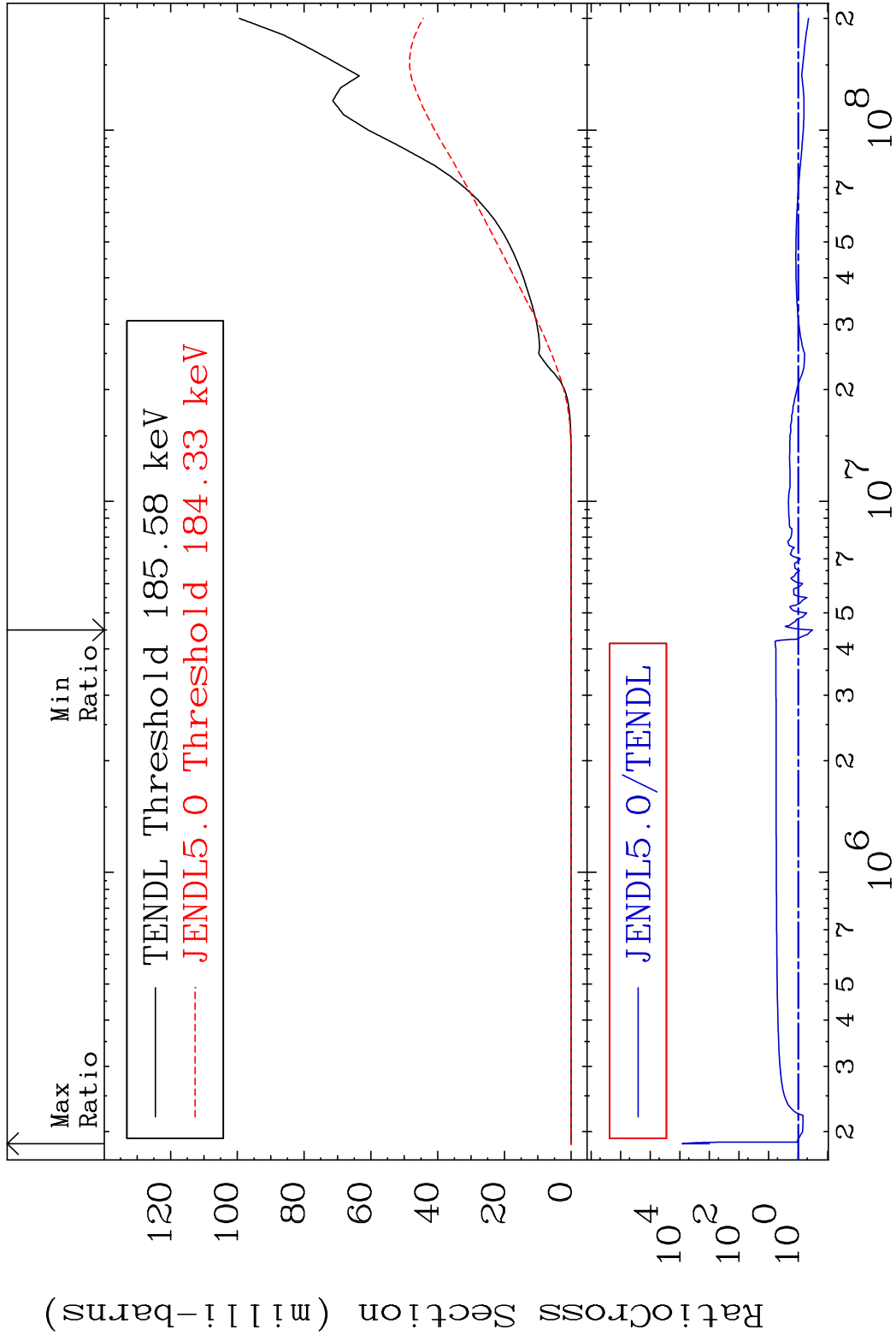


MAT 5143

He-4 Production

51-Sb-127

Cross Section -67.36 To 9999. %

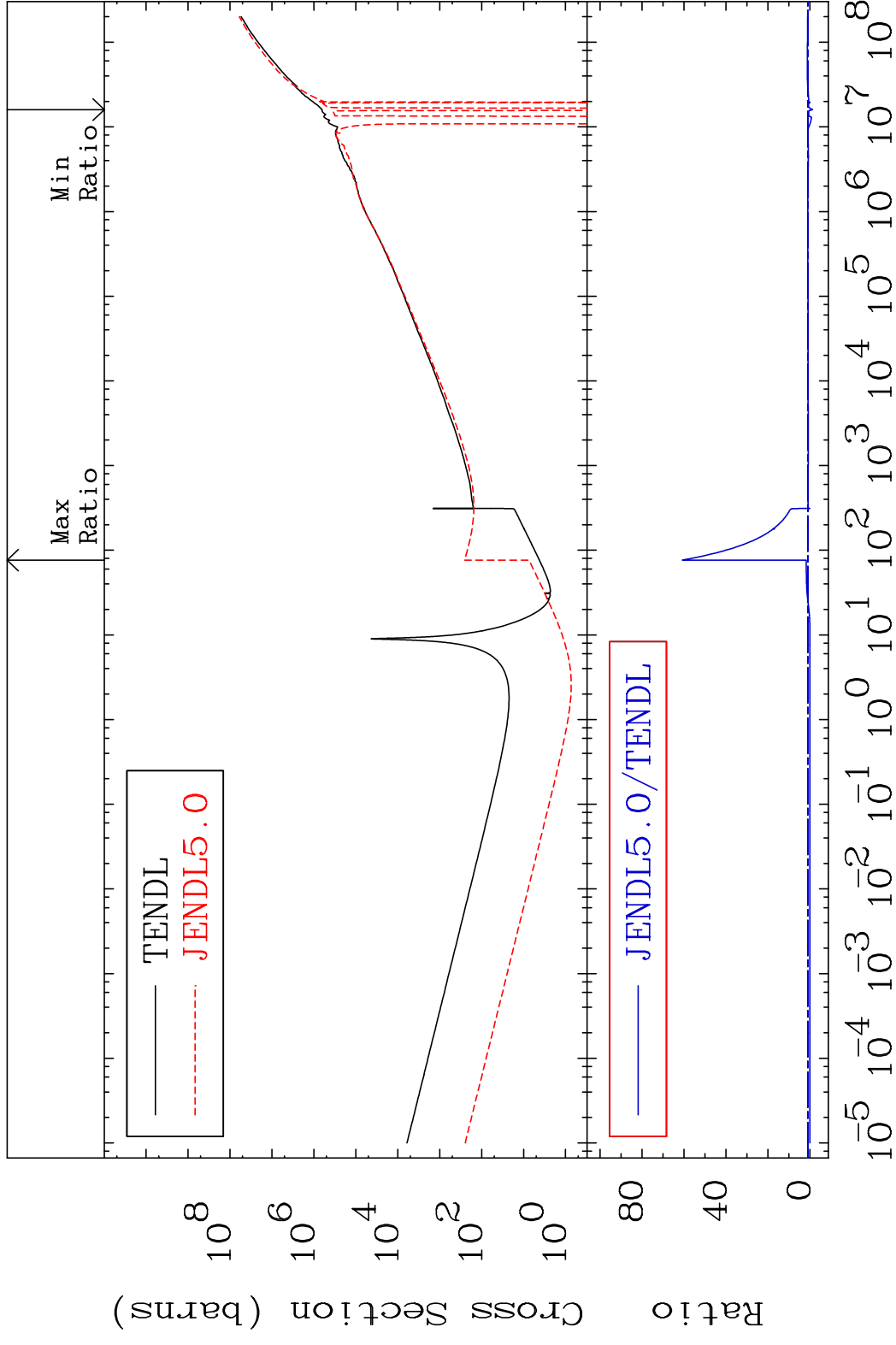


52

Incident Energy (eV)

51-Sb-127

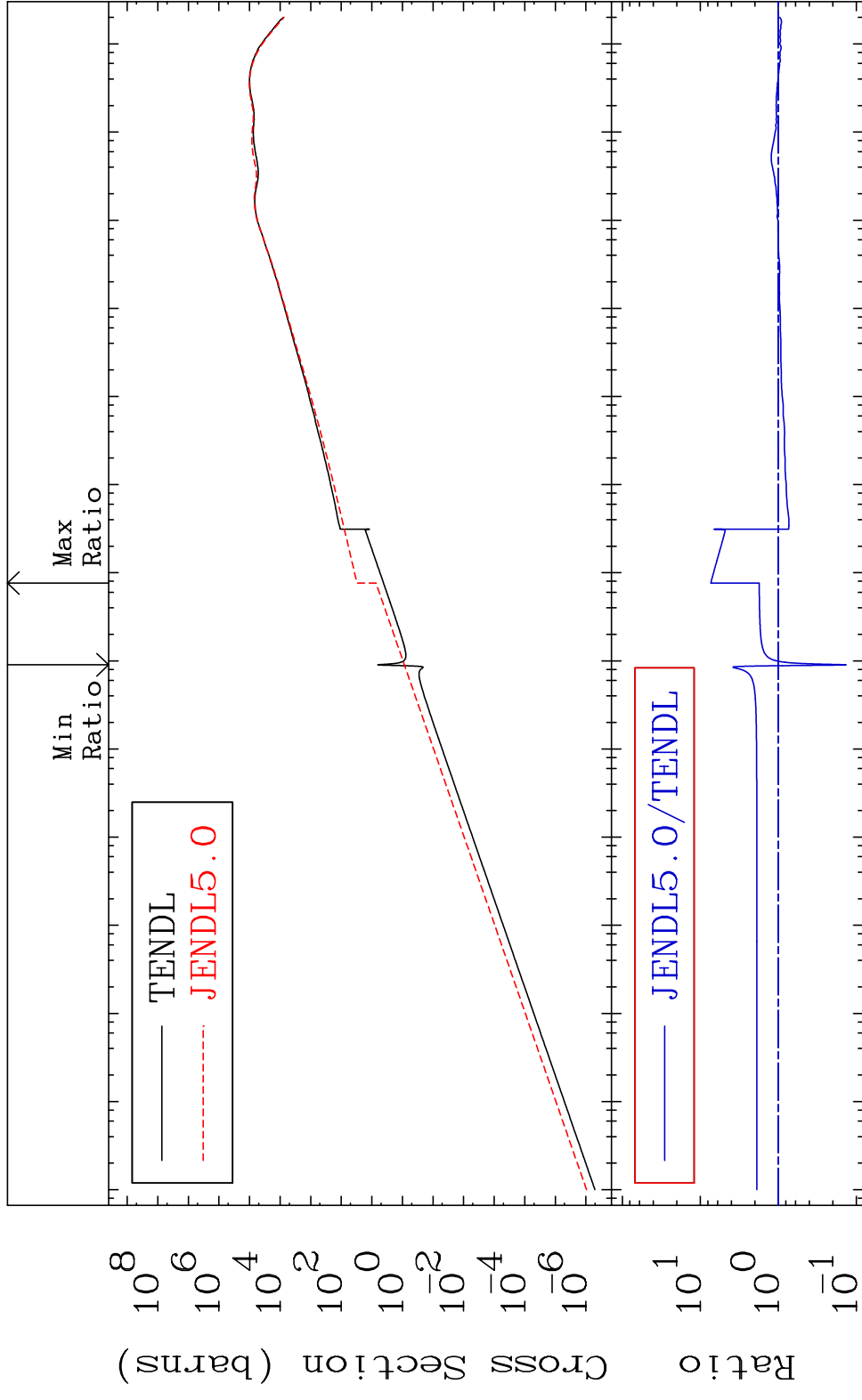
MAT 5143 Kerma total (eV-barns) 51-Sb-127
 Cross Section -224.2 To 5982. %



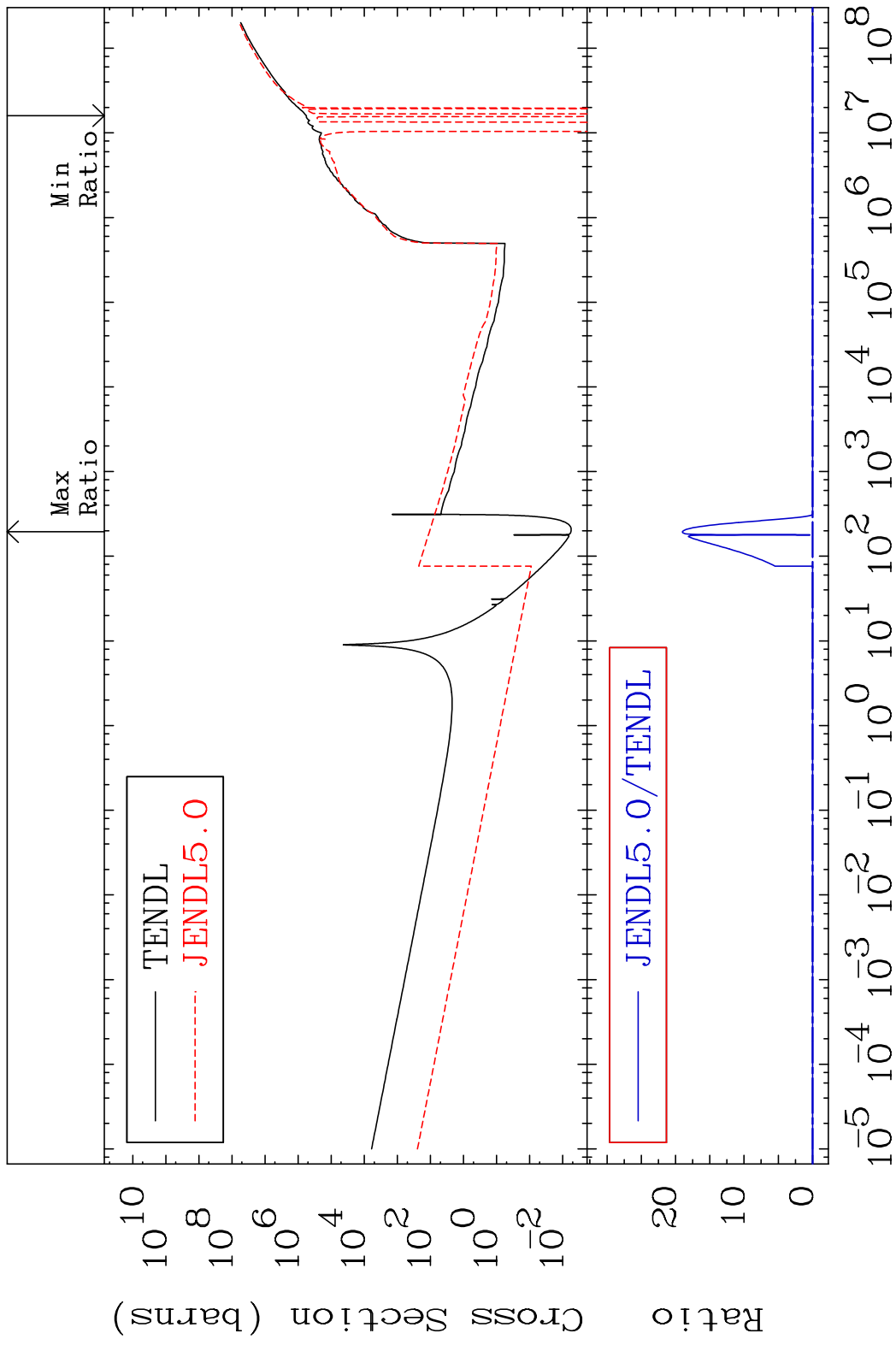
MAT 5143

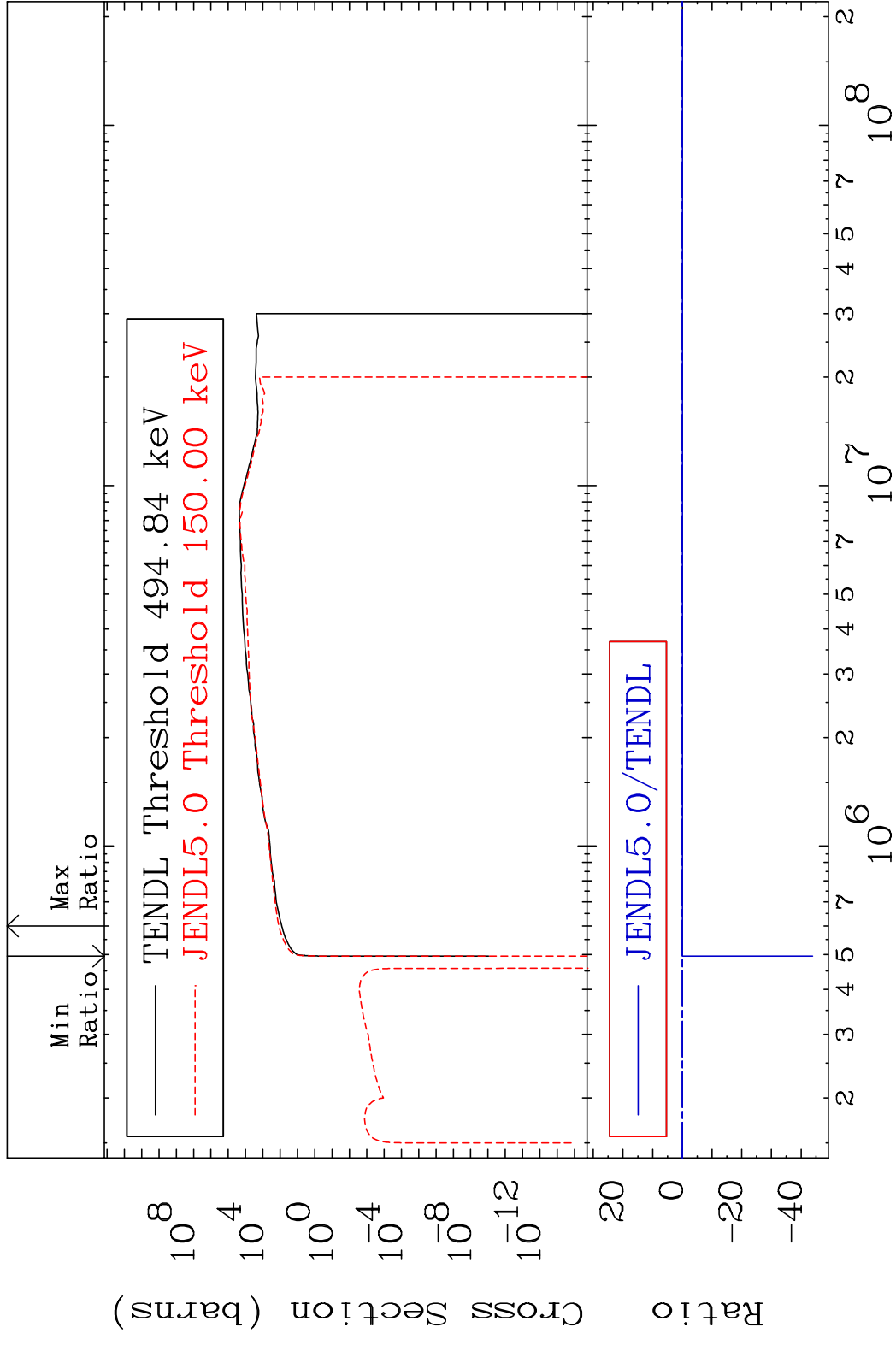
Kerma elastic Cross Section -86.57 To 635.3 %

51-Sb-127

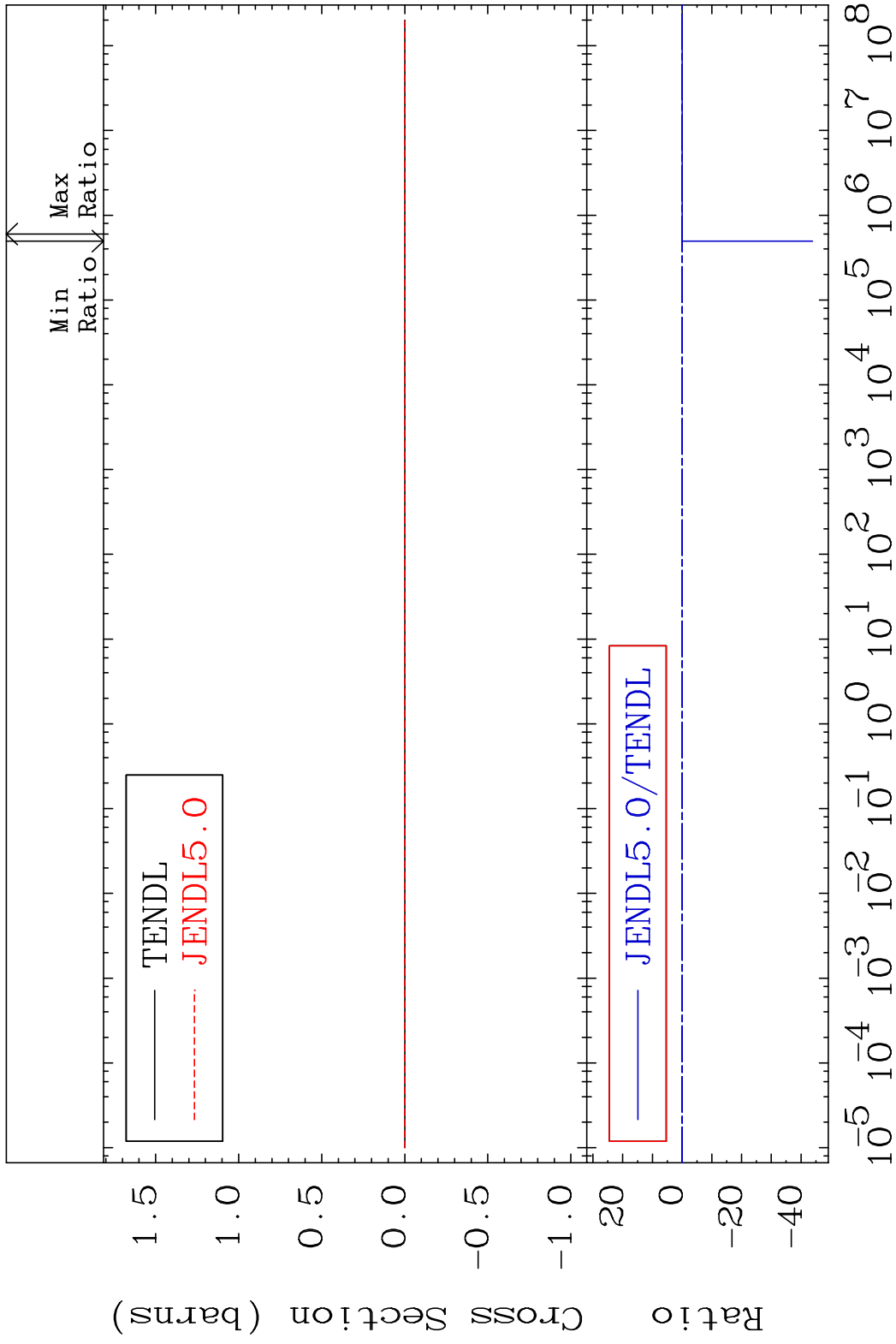


MAT 5143 Kerma non-elastic (all but mt2) 51-Sb-127
 Cross Section -253.2 To 9999. %





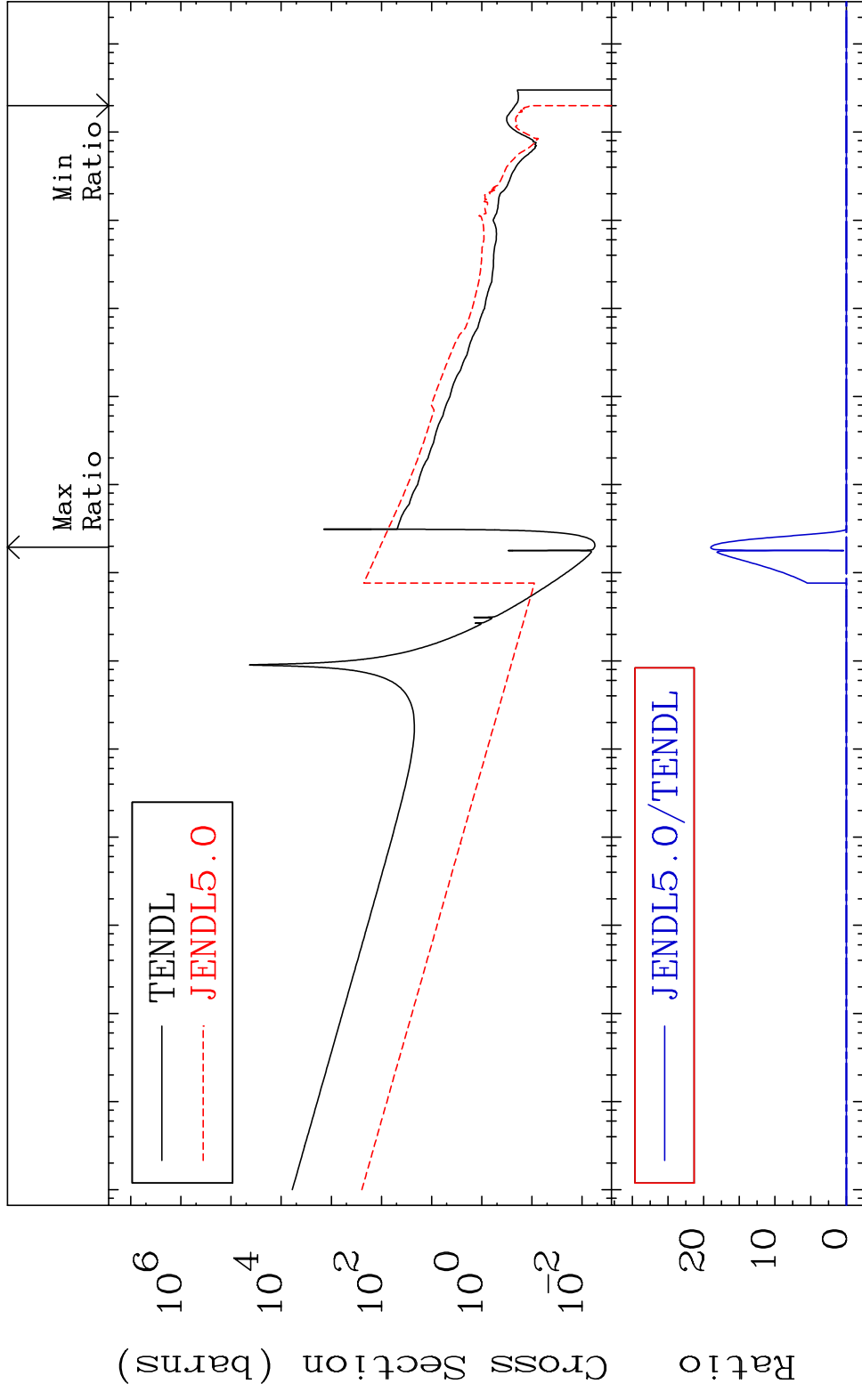
MAT 5143 Kerma fission (mt18 or mt19-20-21-38) 51-Sb-127
 Cross Section -9999. To 51.81 %



MAT 5143

Kerma capture (mt102) 51-Sb-127

Cross Section -100.0 To 9999. %

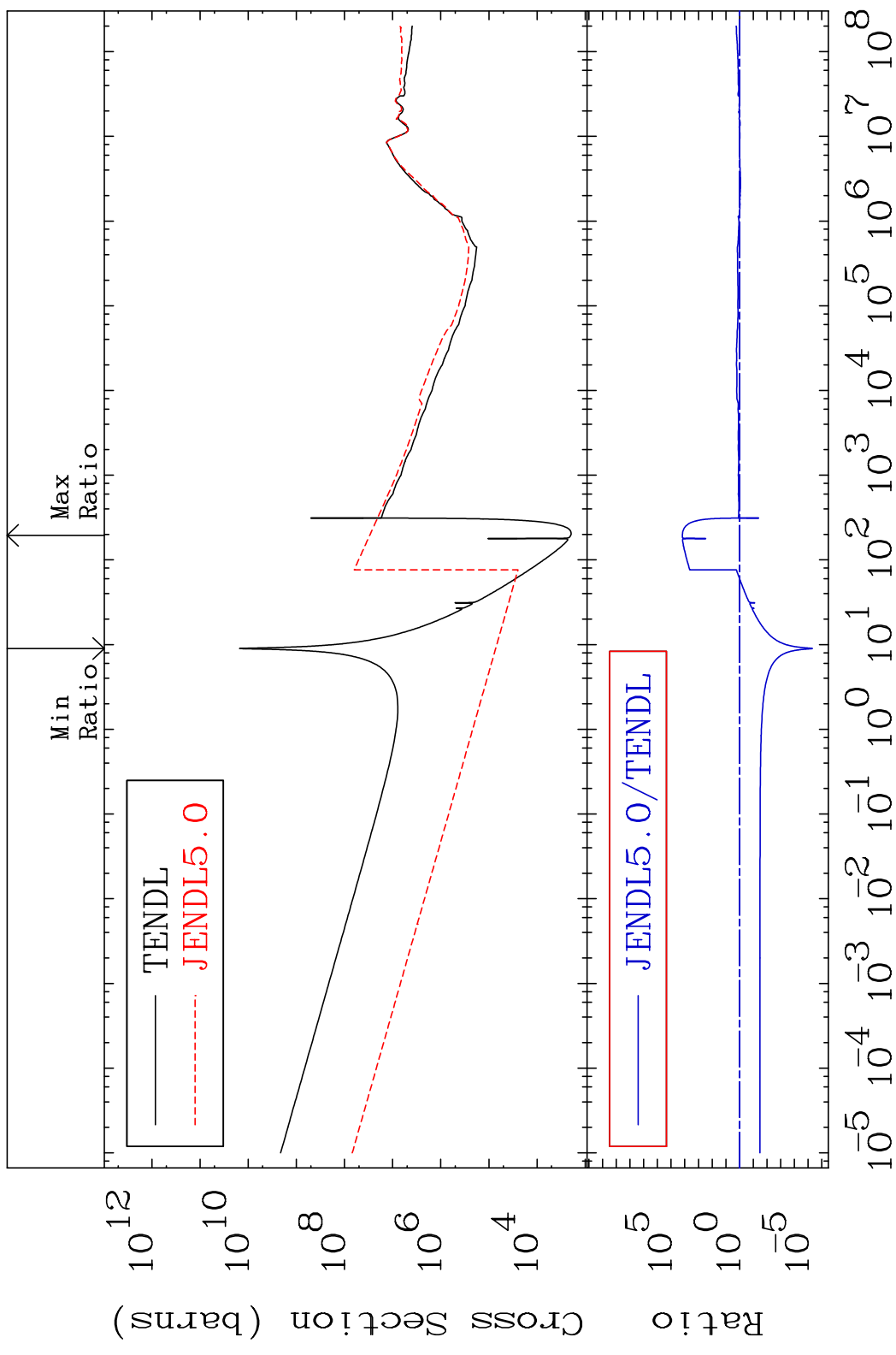


MAT 5143

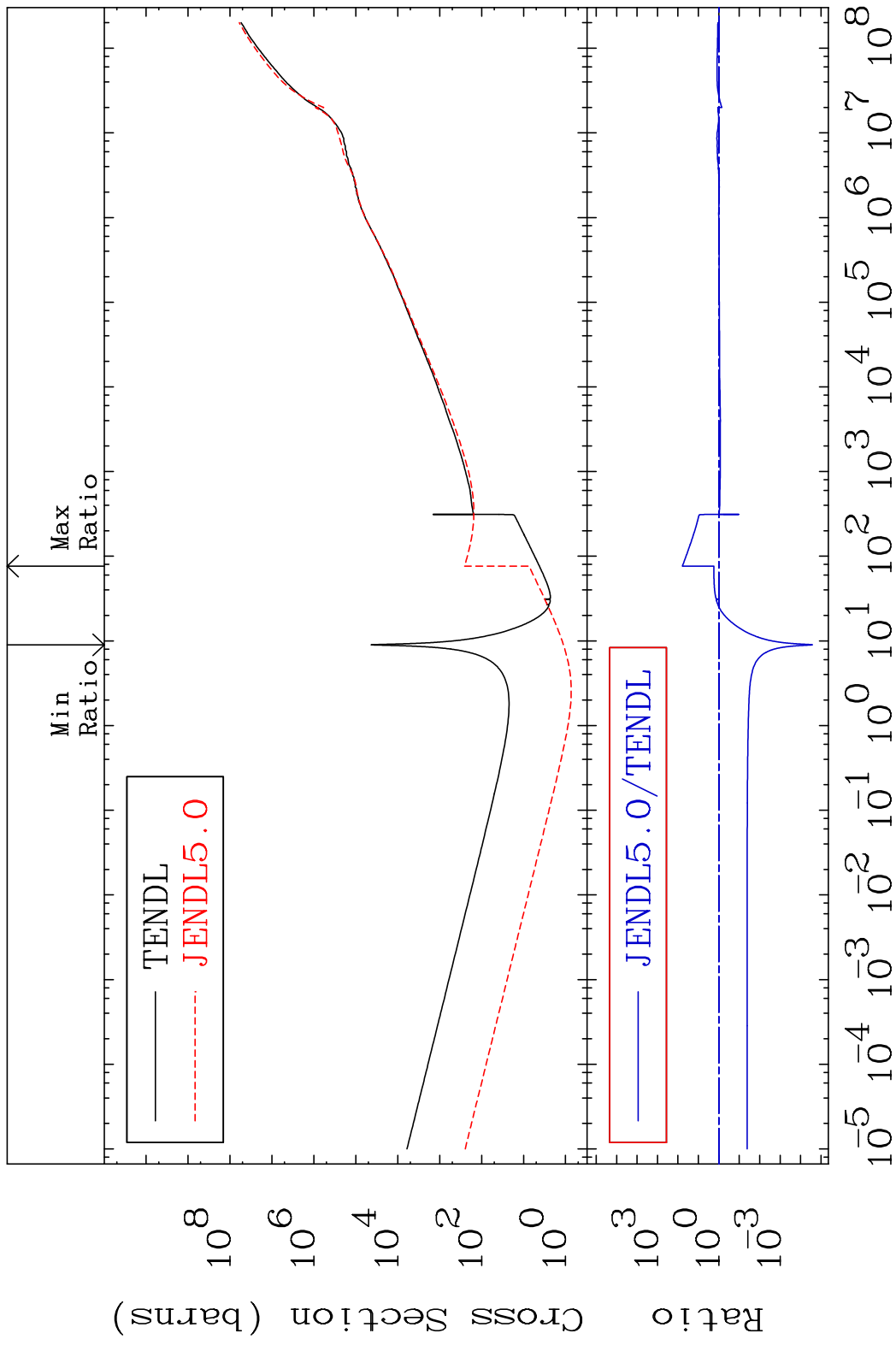
Total photon (eV-barns)

51-Sb-127

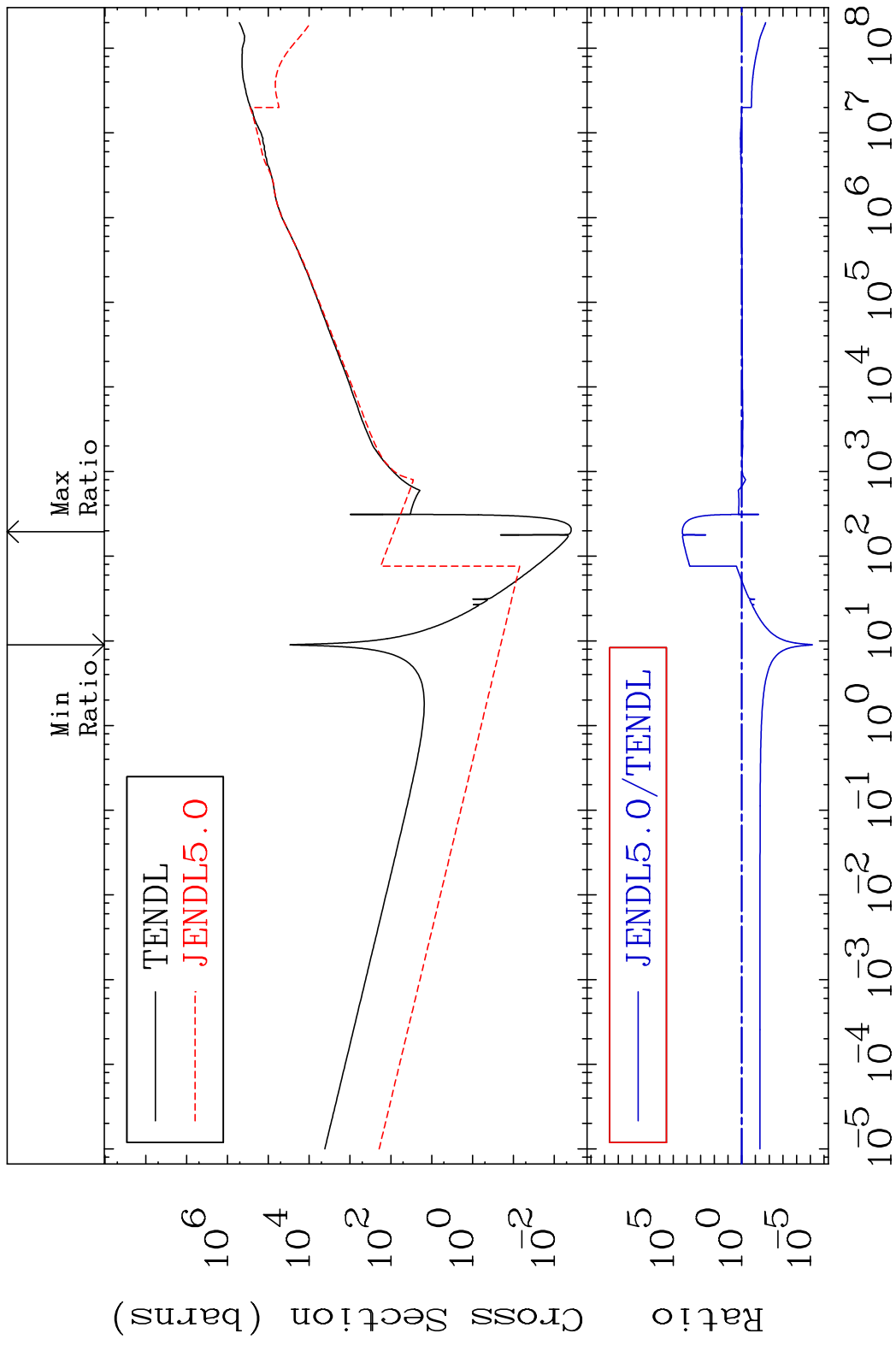
Cross Section -100.0 To 9999. %



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. %



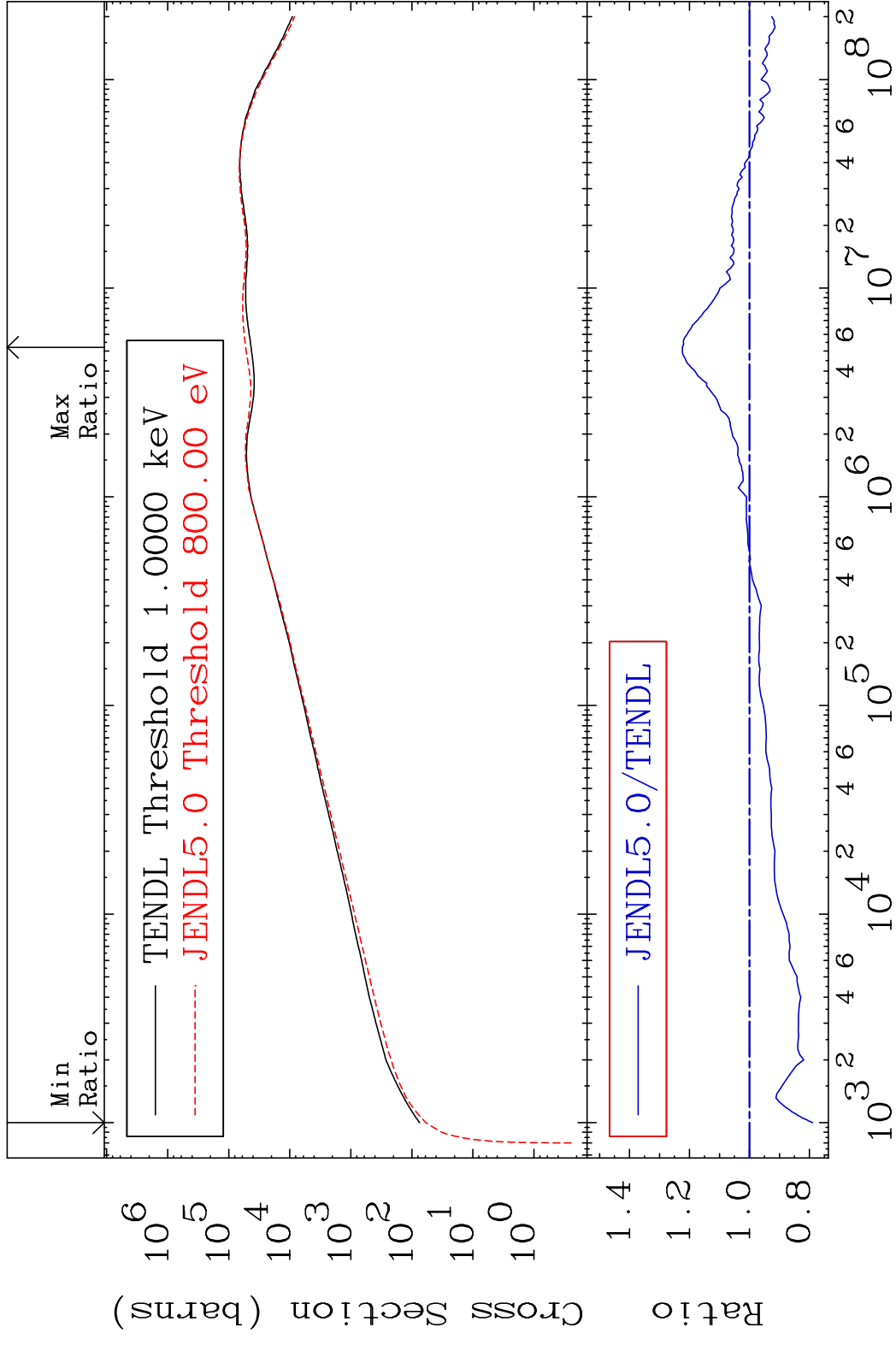
MAT 5143

Dpa elastic (mt2)

51-Sb-127

Cross Section

-21.04 To 22.37 %



62

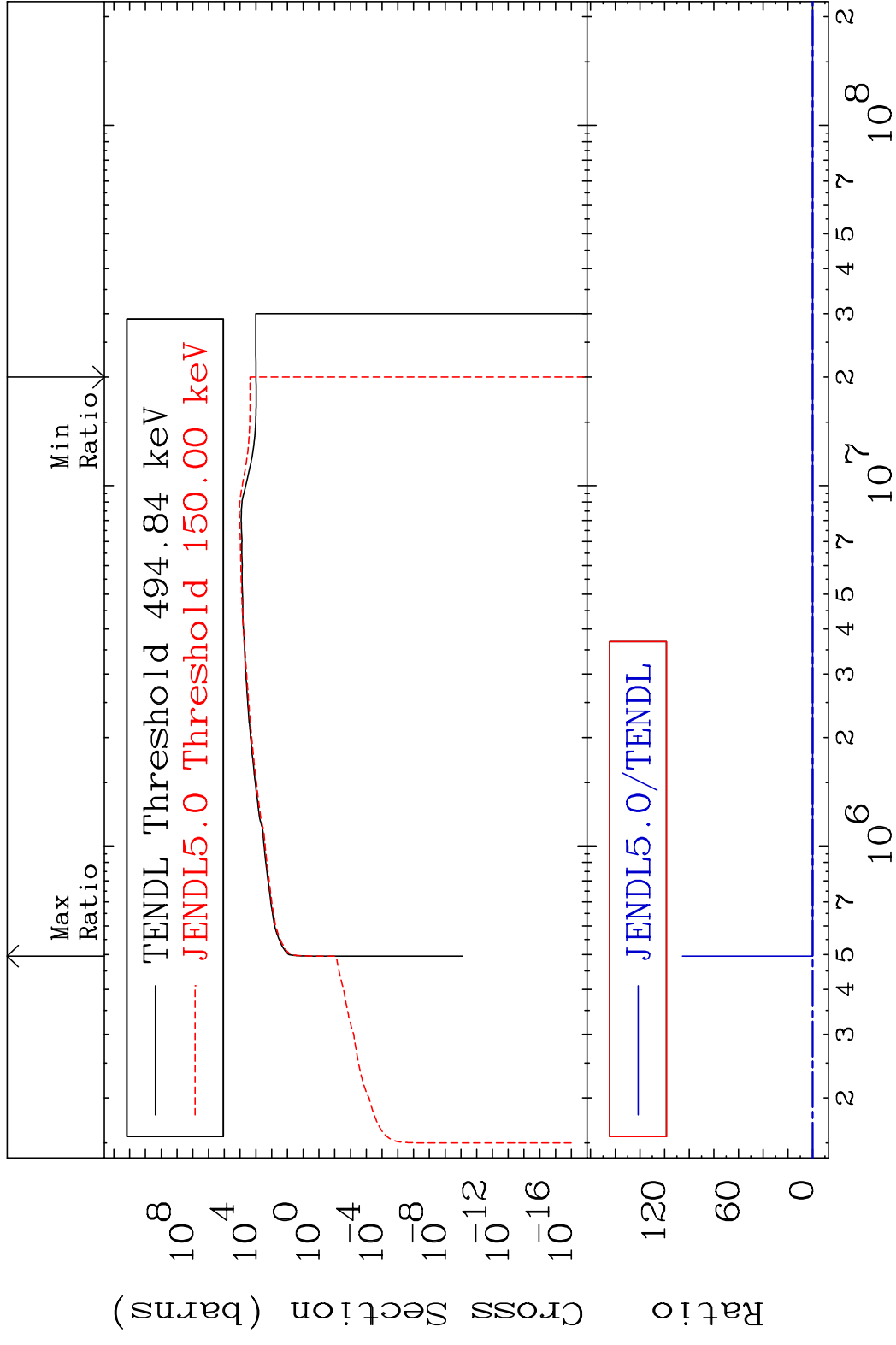
Incident Energy (eV)

51-Sb-127

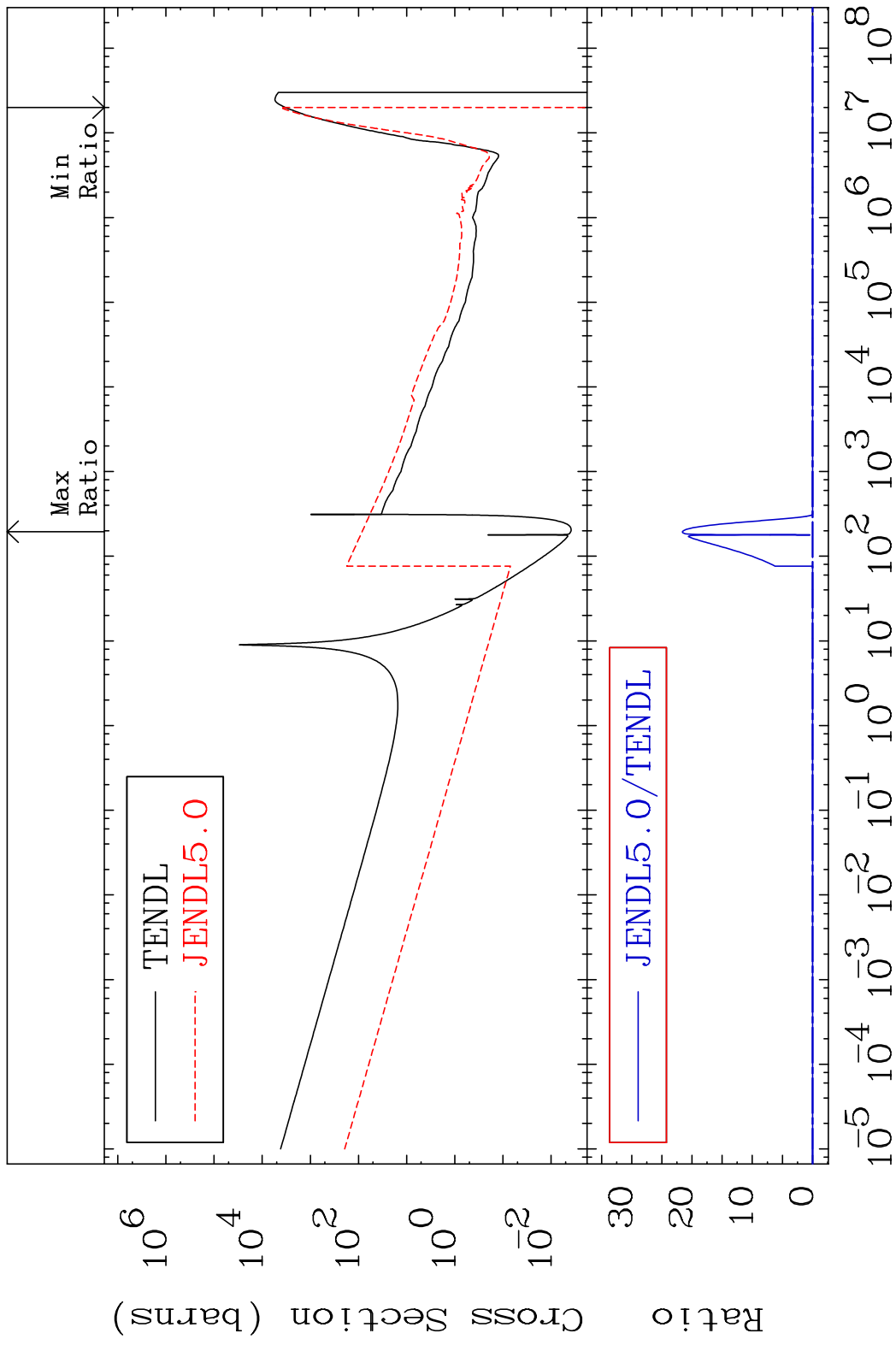
MAT 5143

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

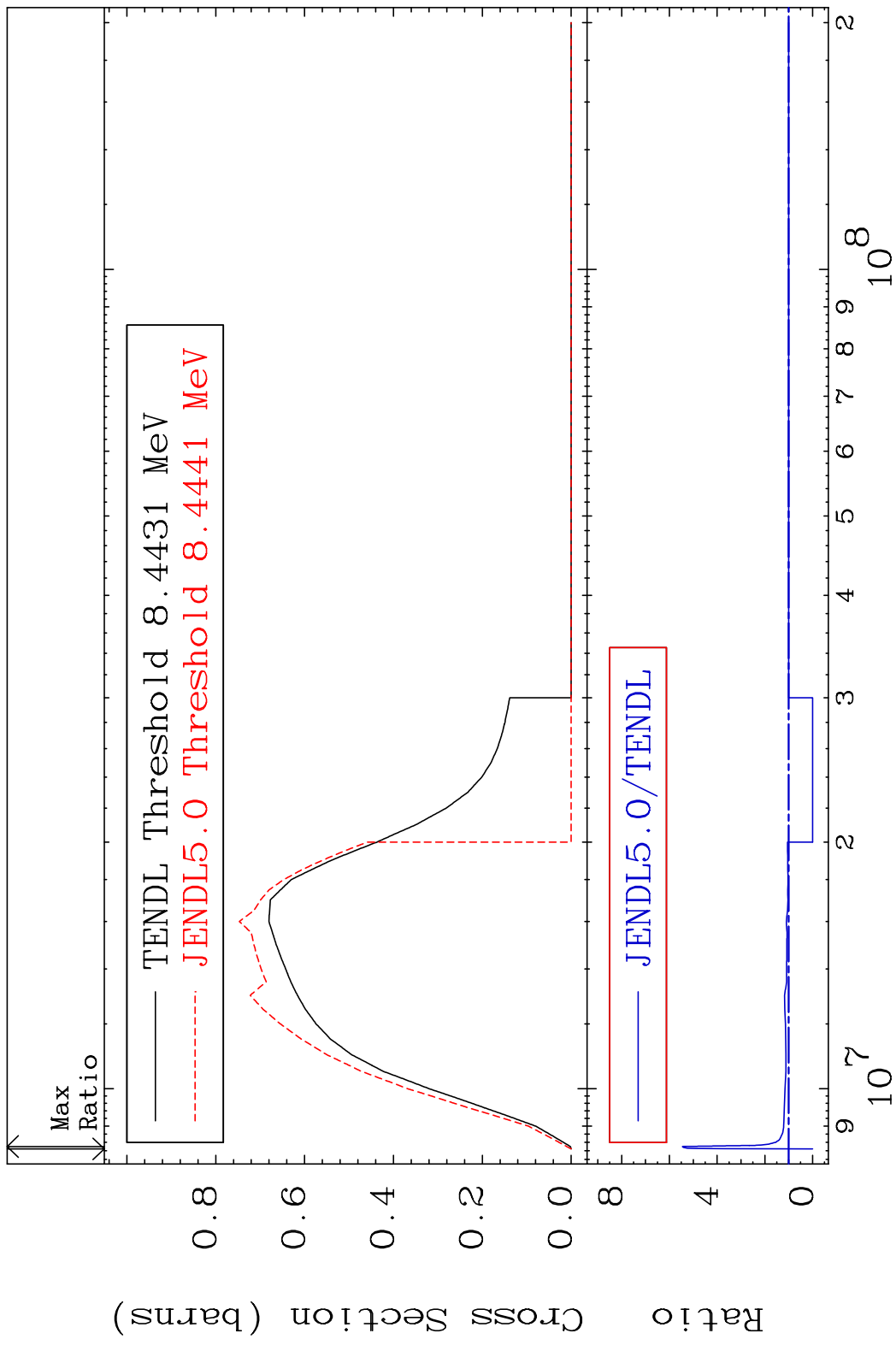
Cross Section -100.0 To 9999. %

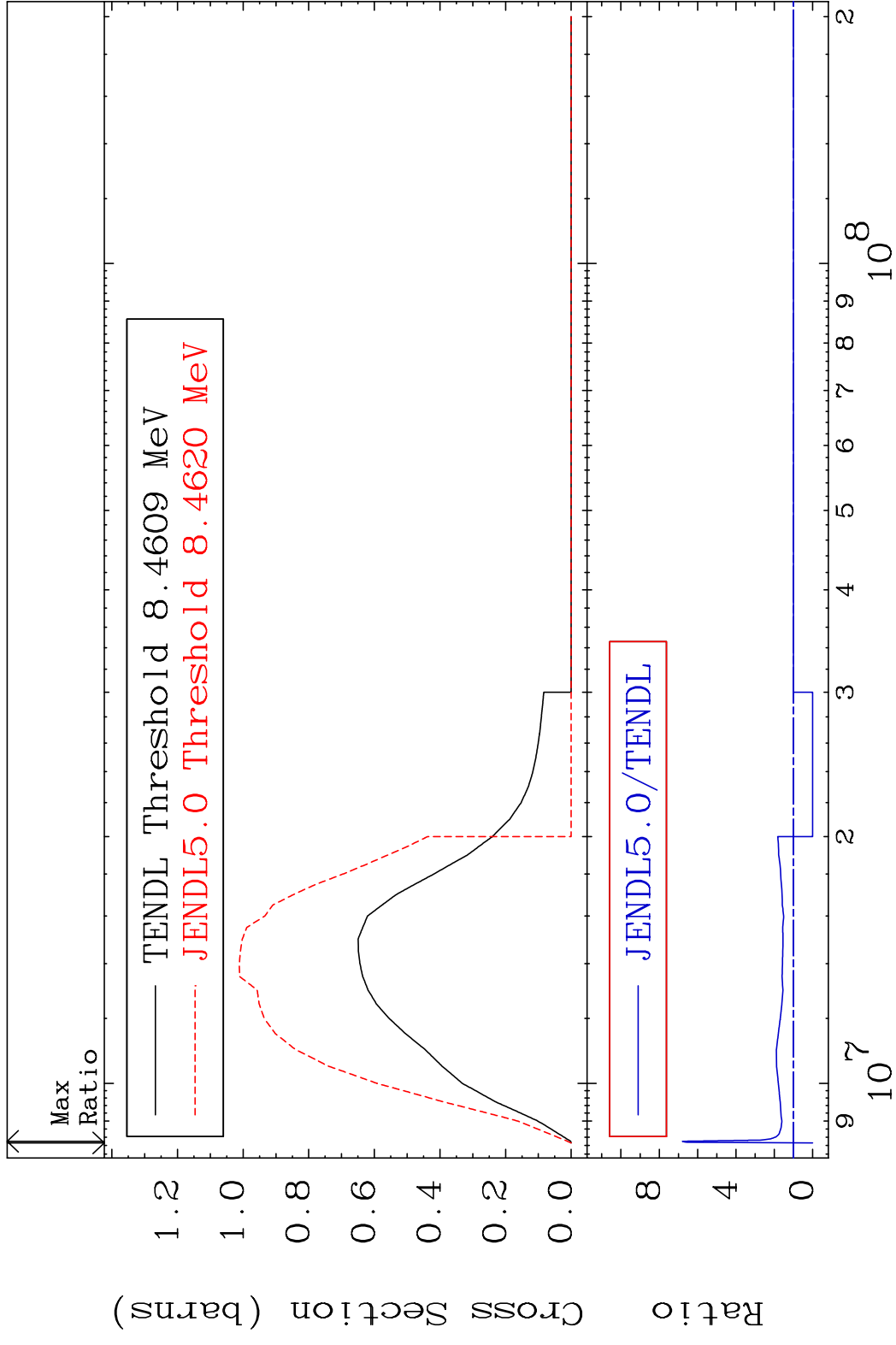


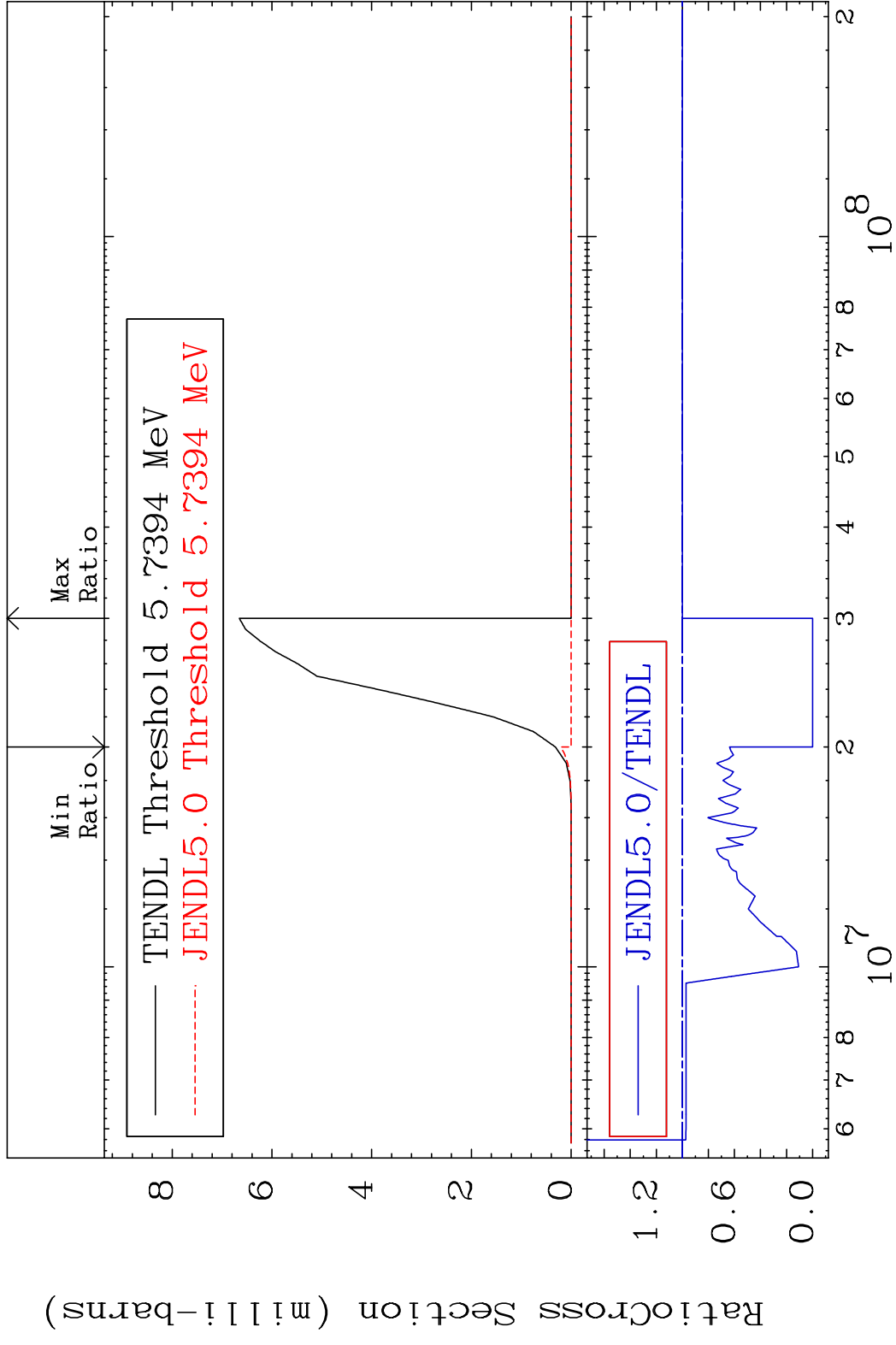
MAT 5143 Dpa disappearance (mt102 -120) 51-Sb-127
 Cross Section -100.0 To 9999. %



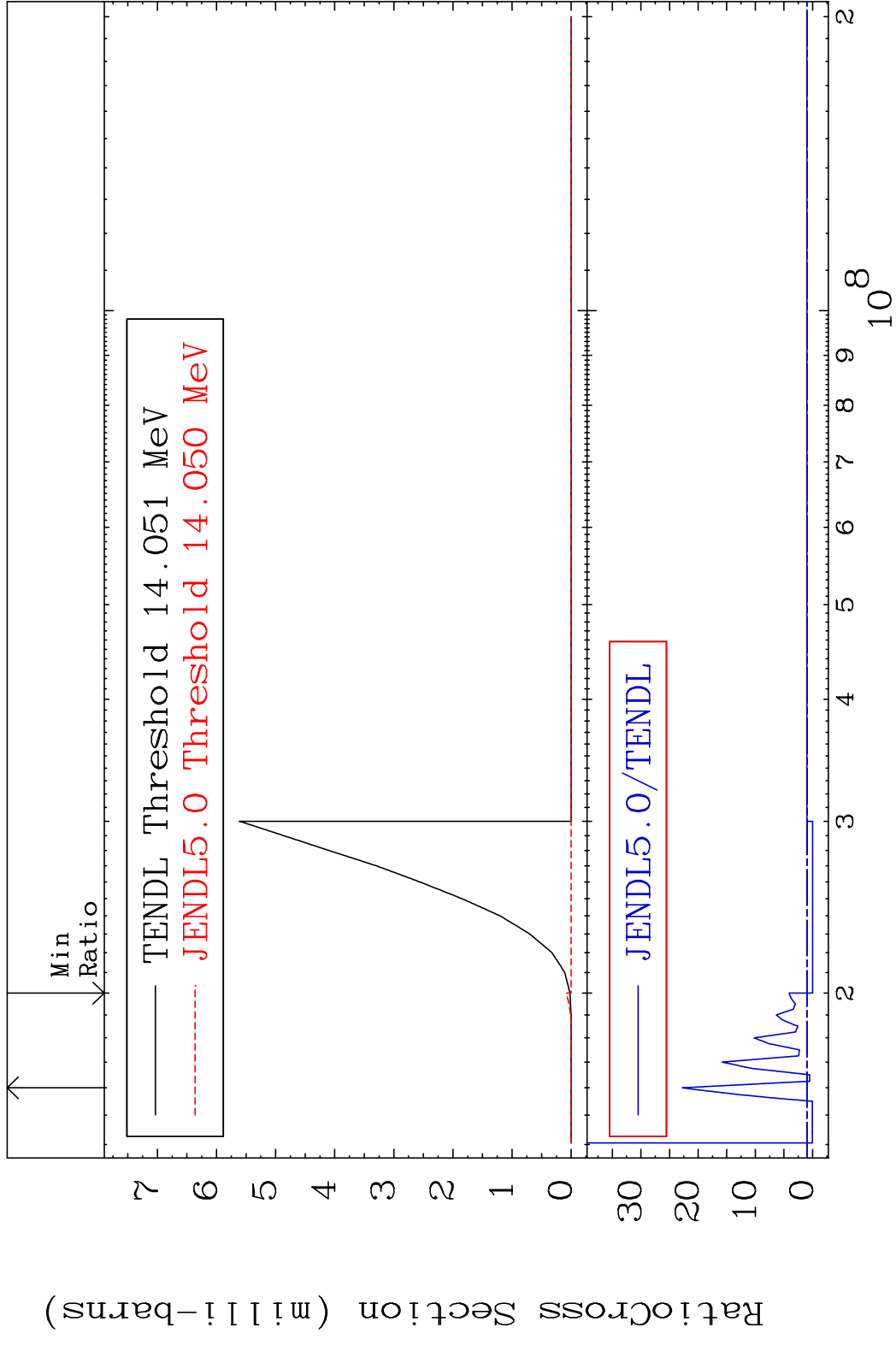
MAT 5143 (n,2n):51-Sb-126g 51-Sb-127
 Radionuclide Production Cross Section Ratio 445.7 %

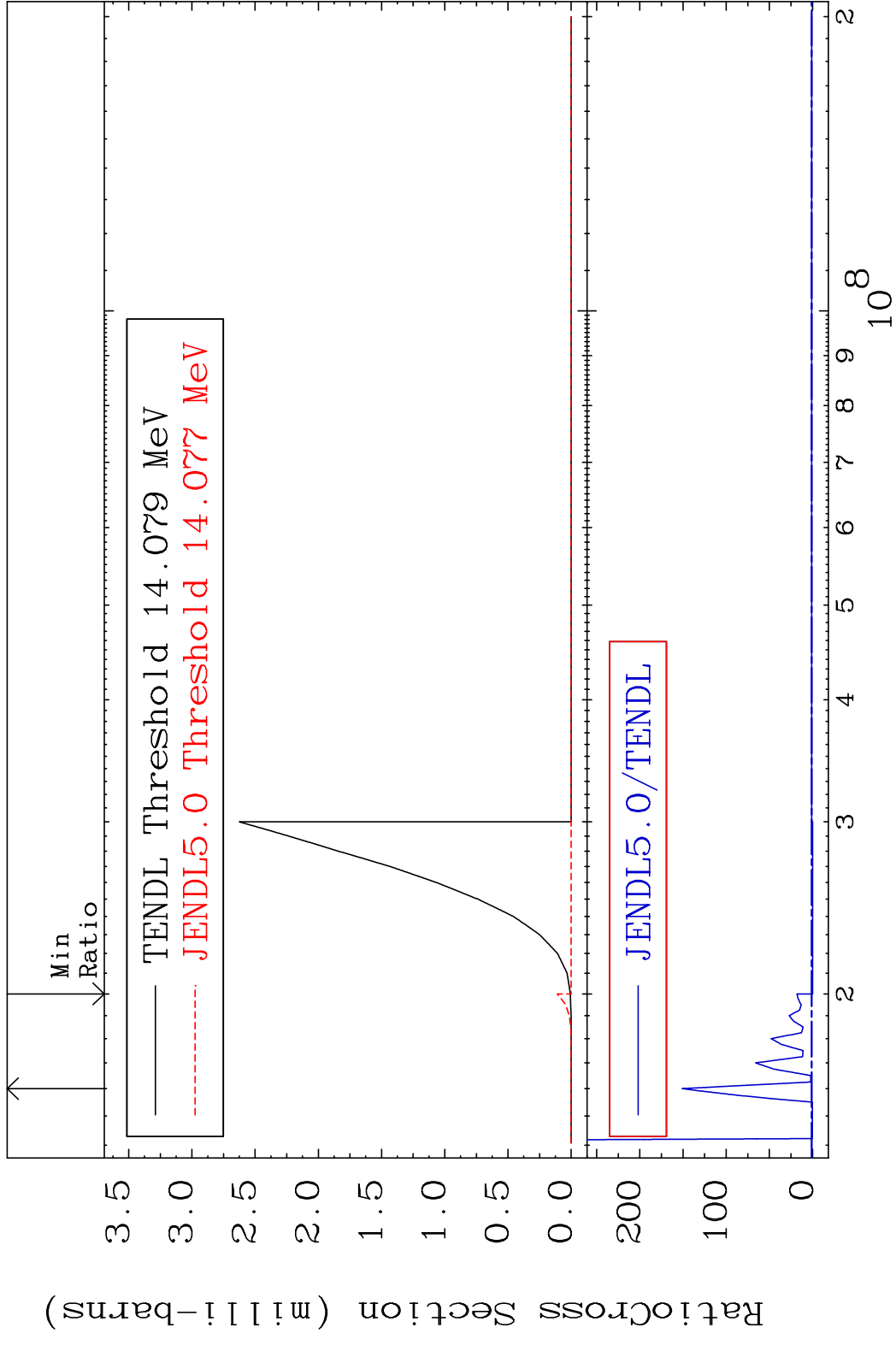


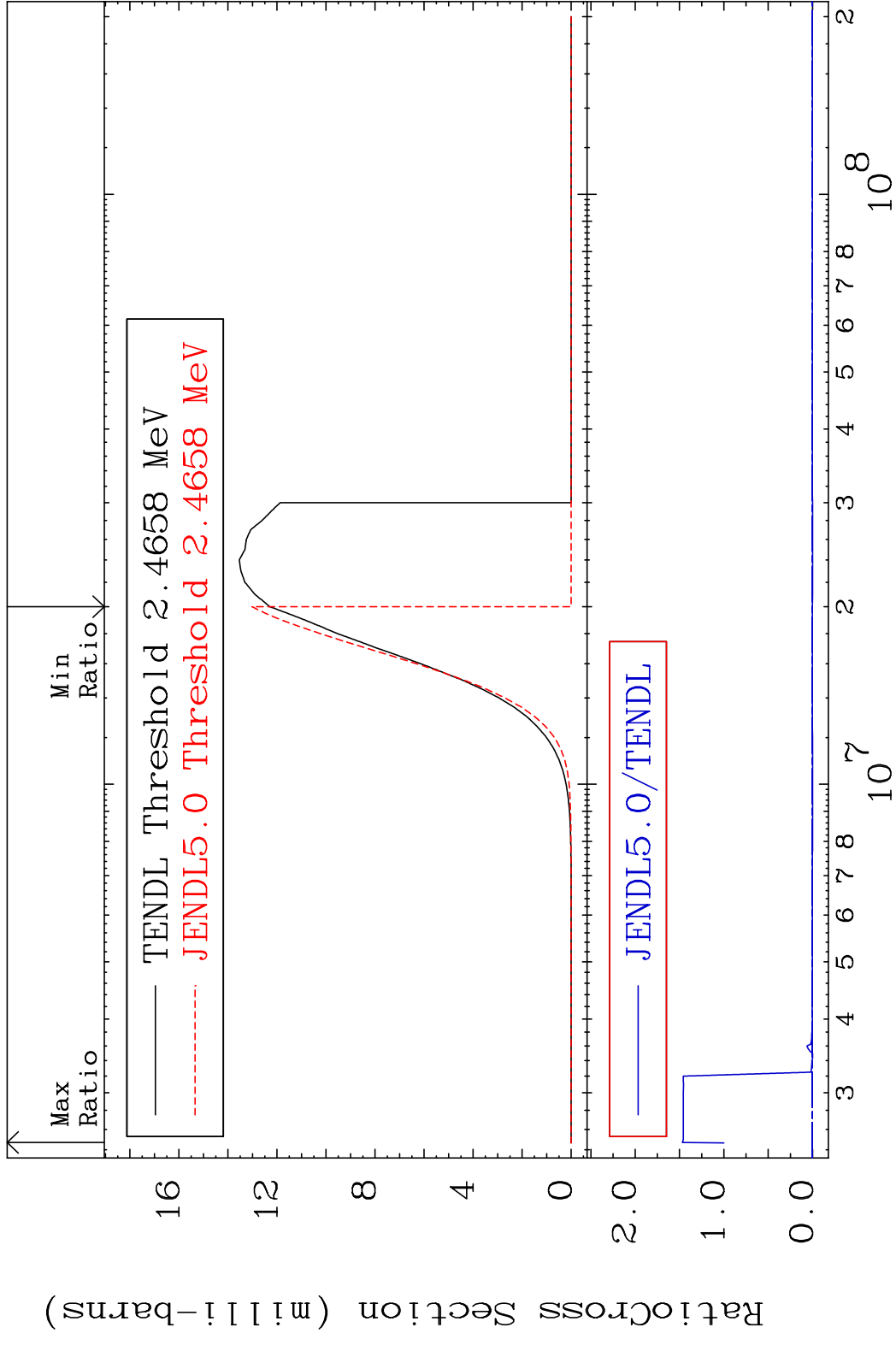




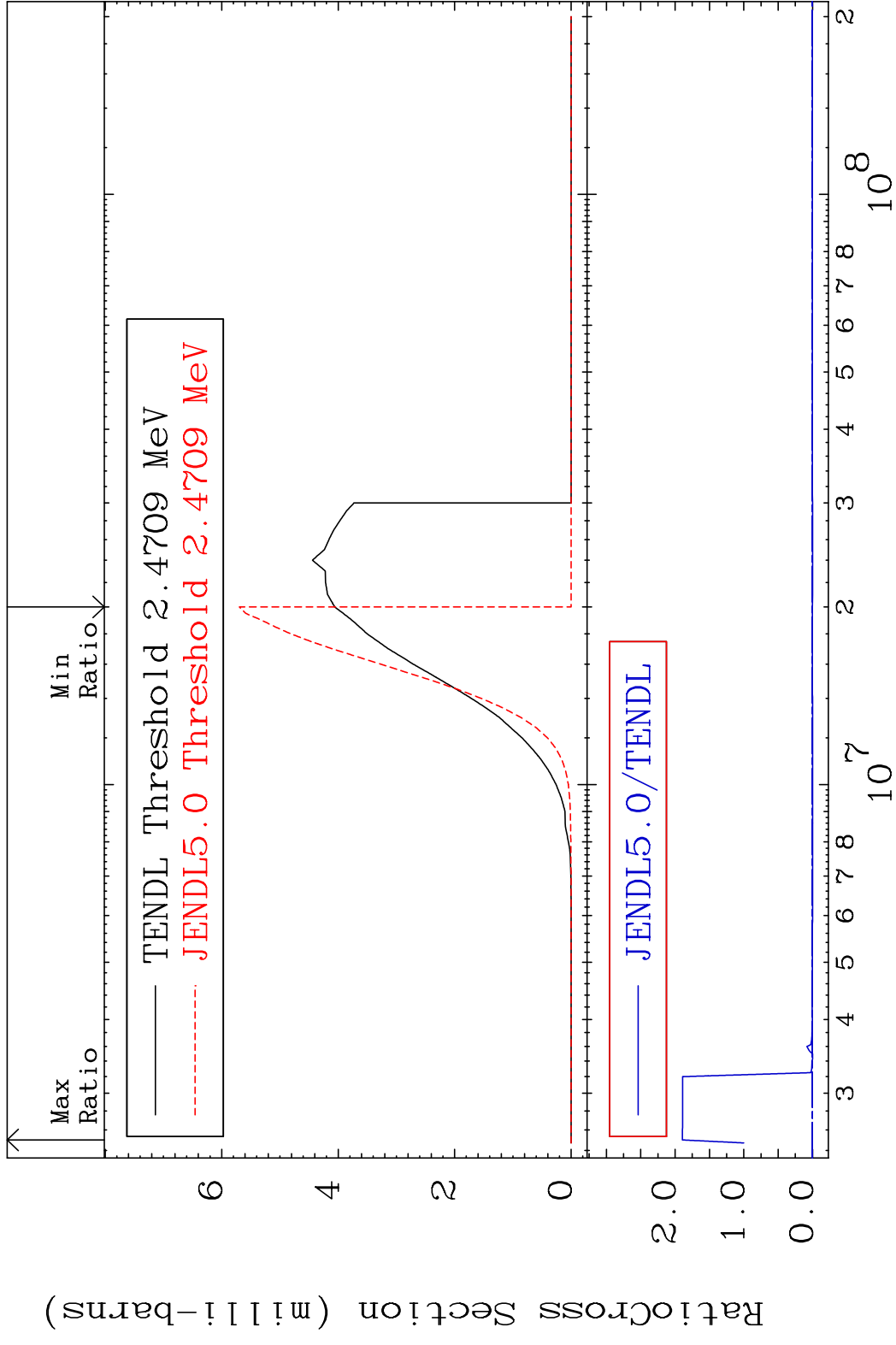


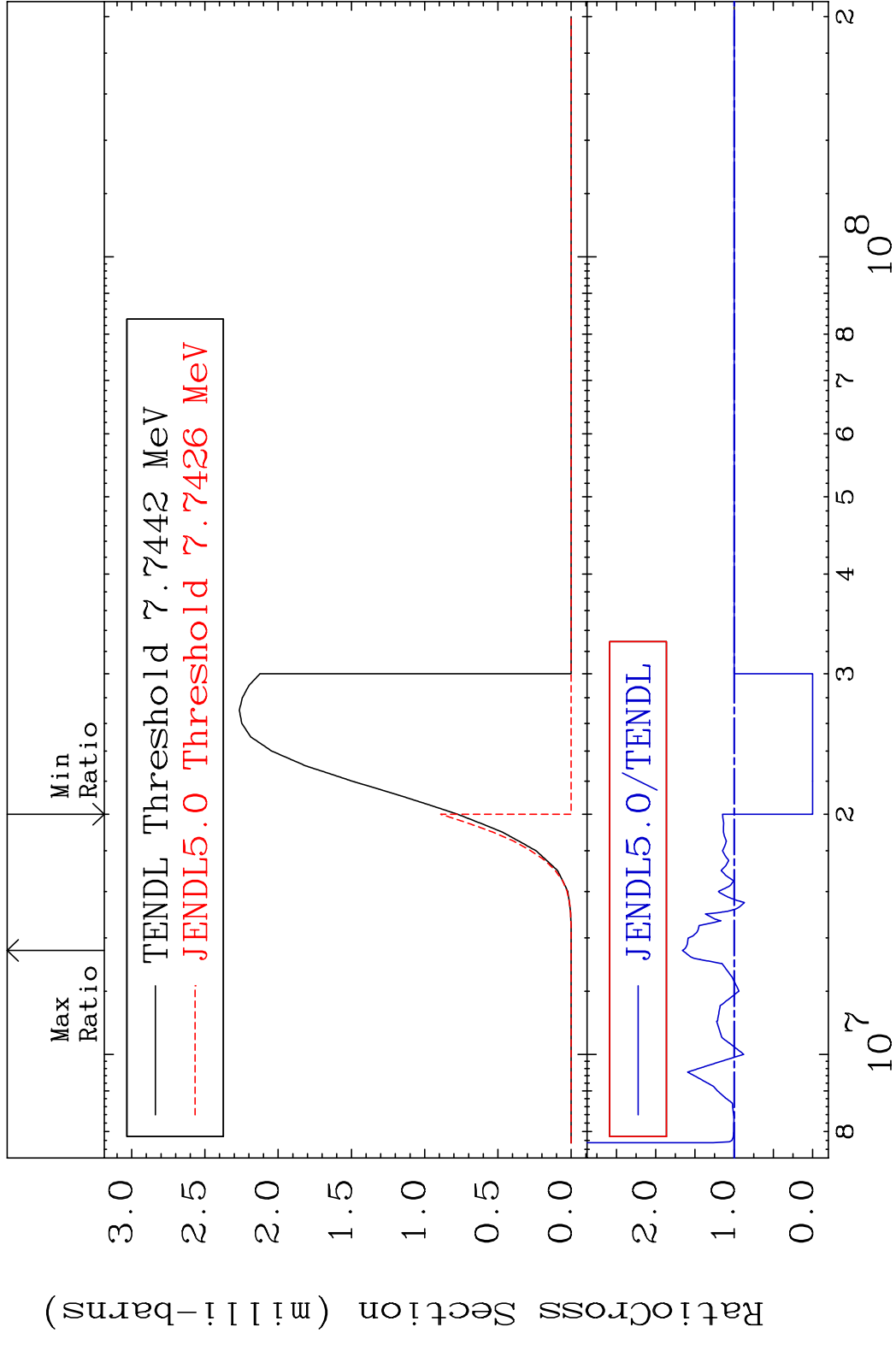


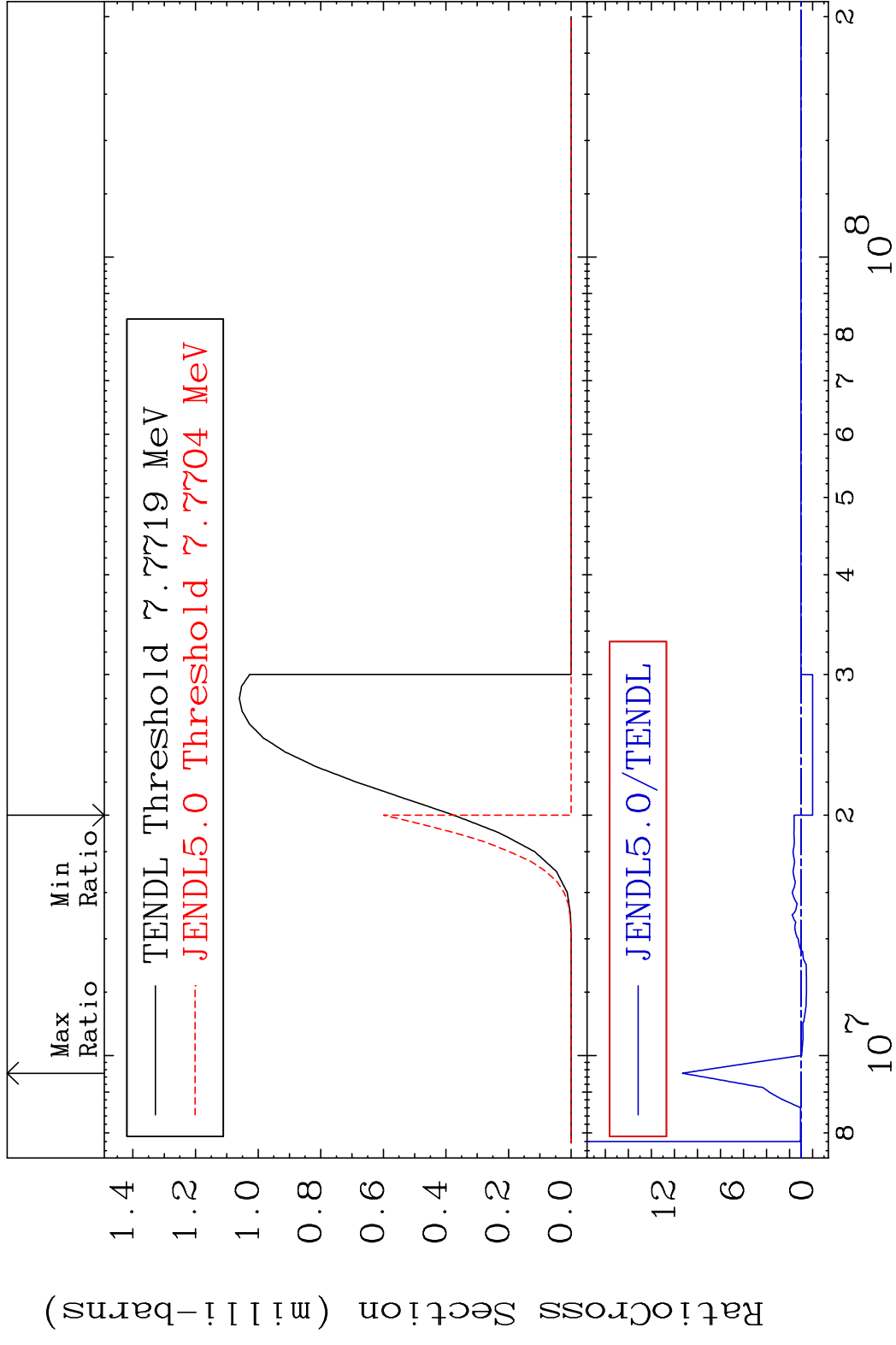


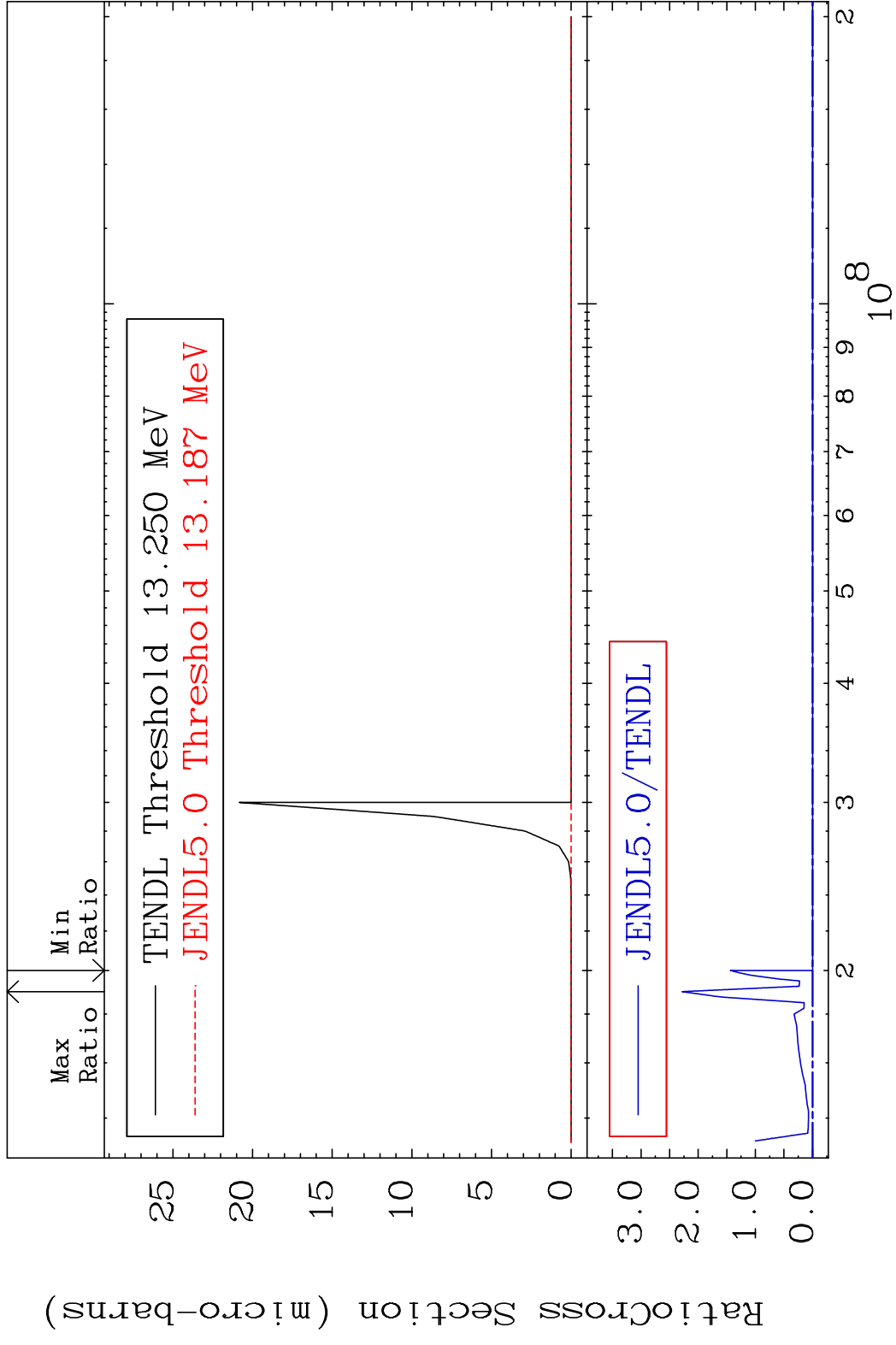


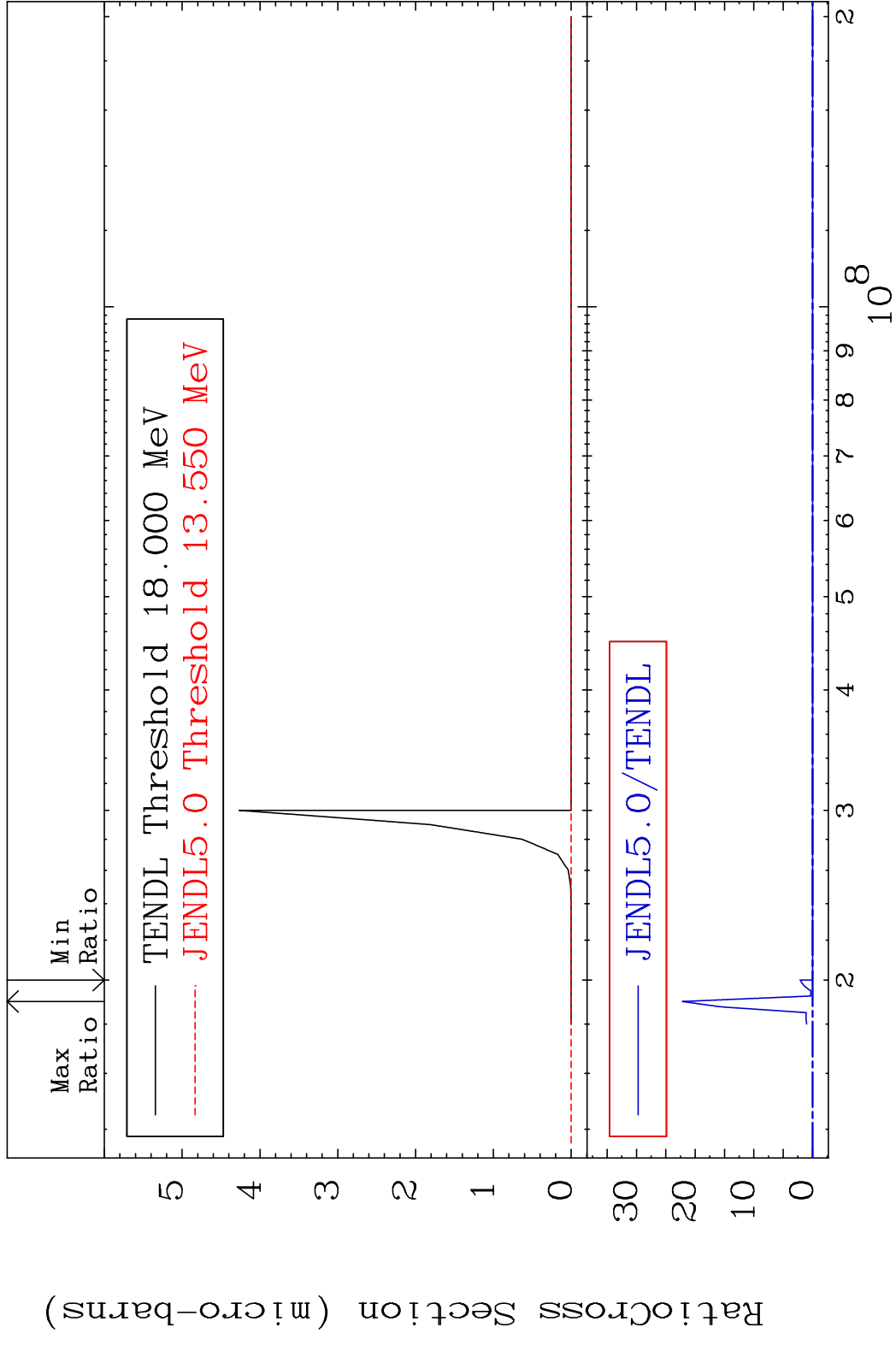
MAT 5143 (n, p):50-Sn-127m1 51-Sb-127
 Radionuclide Production Cross Section (%)

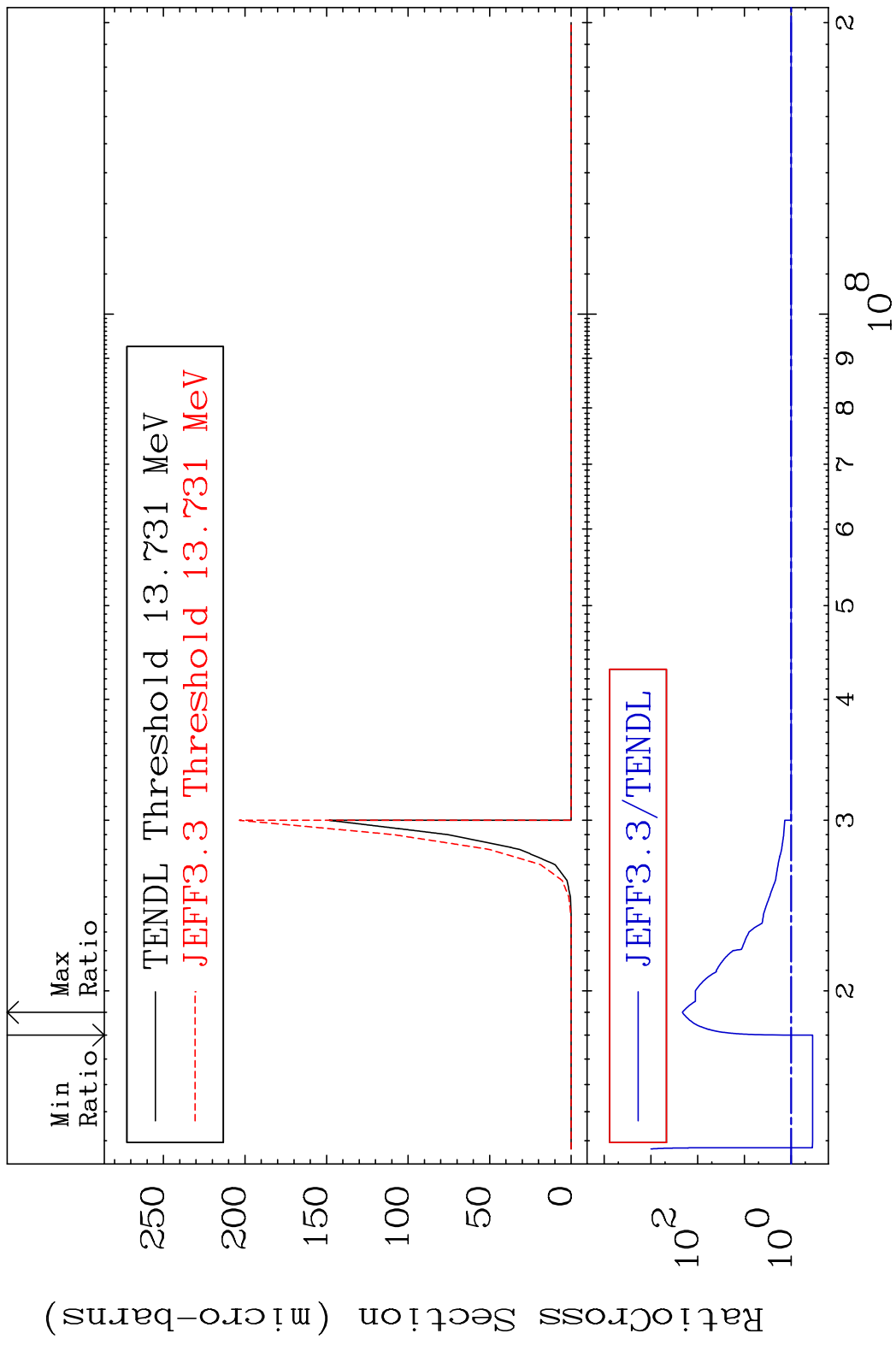


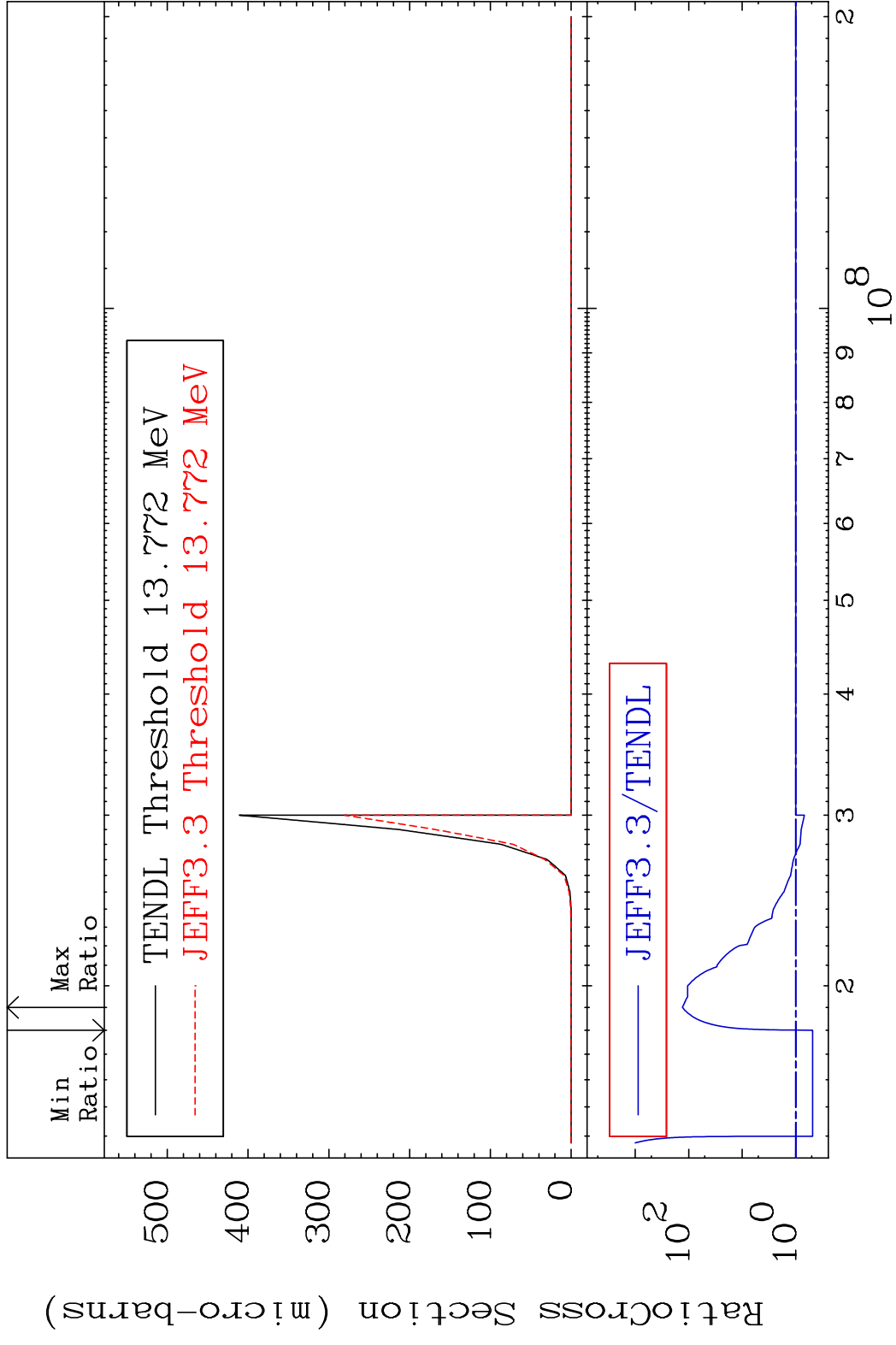


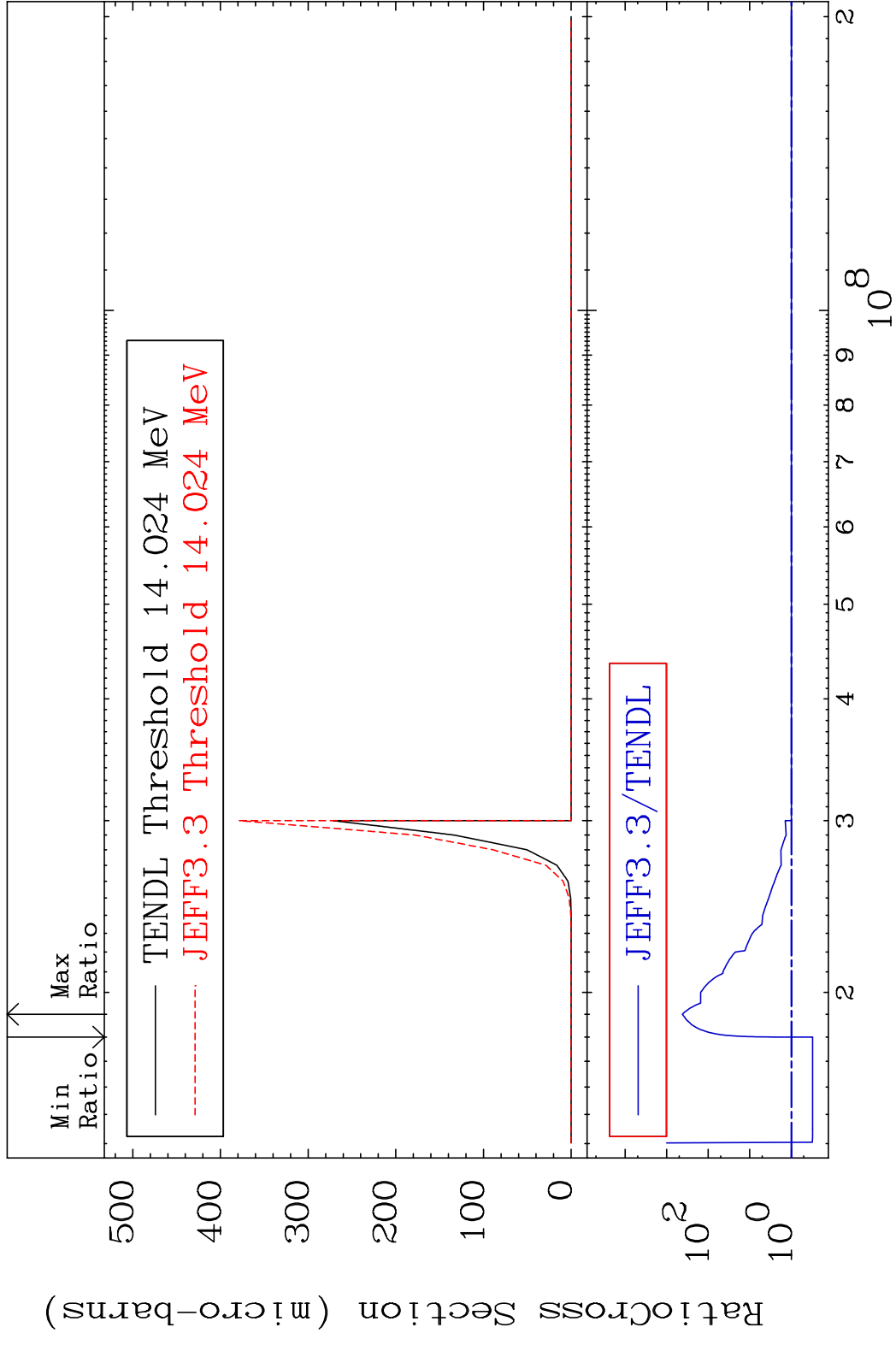


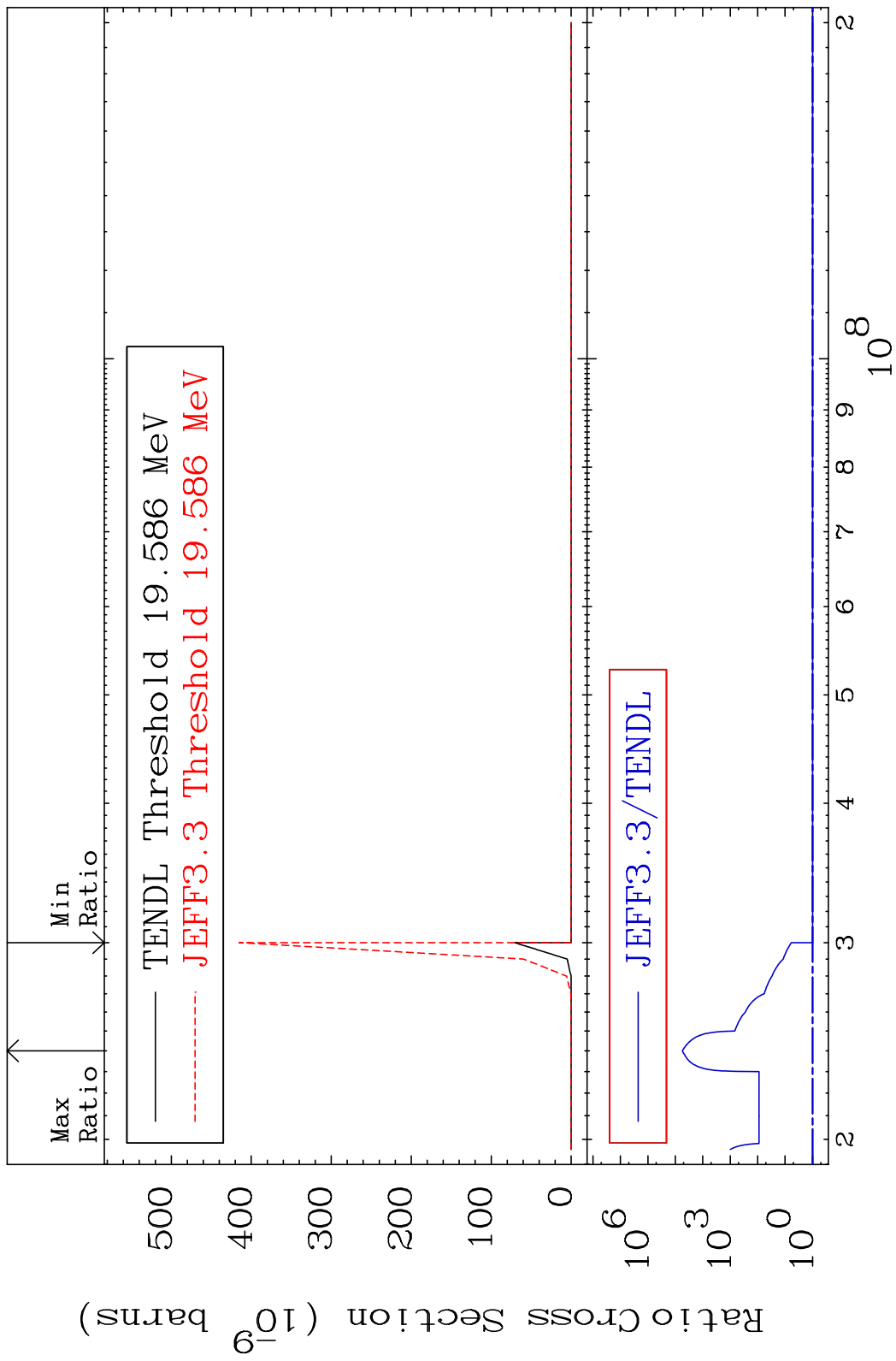


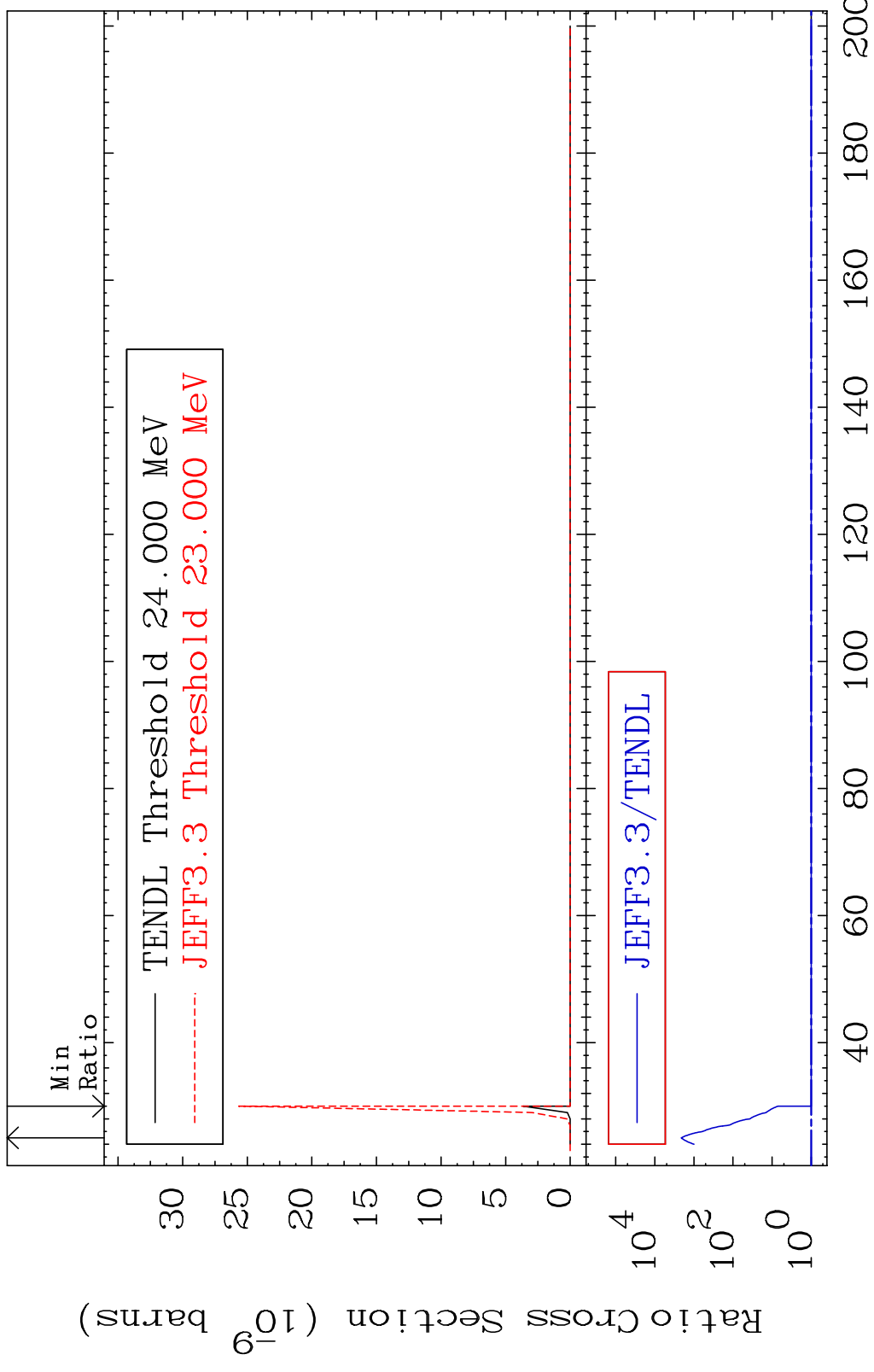


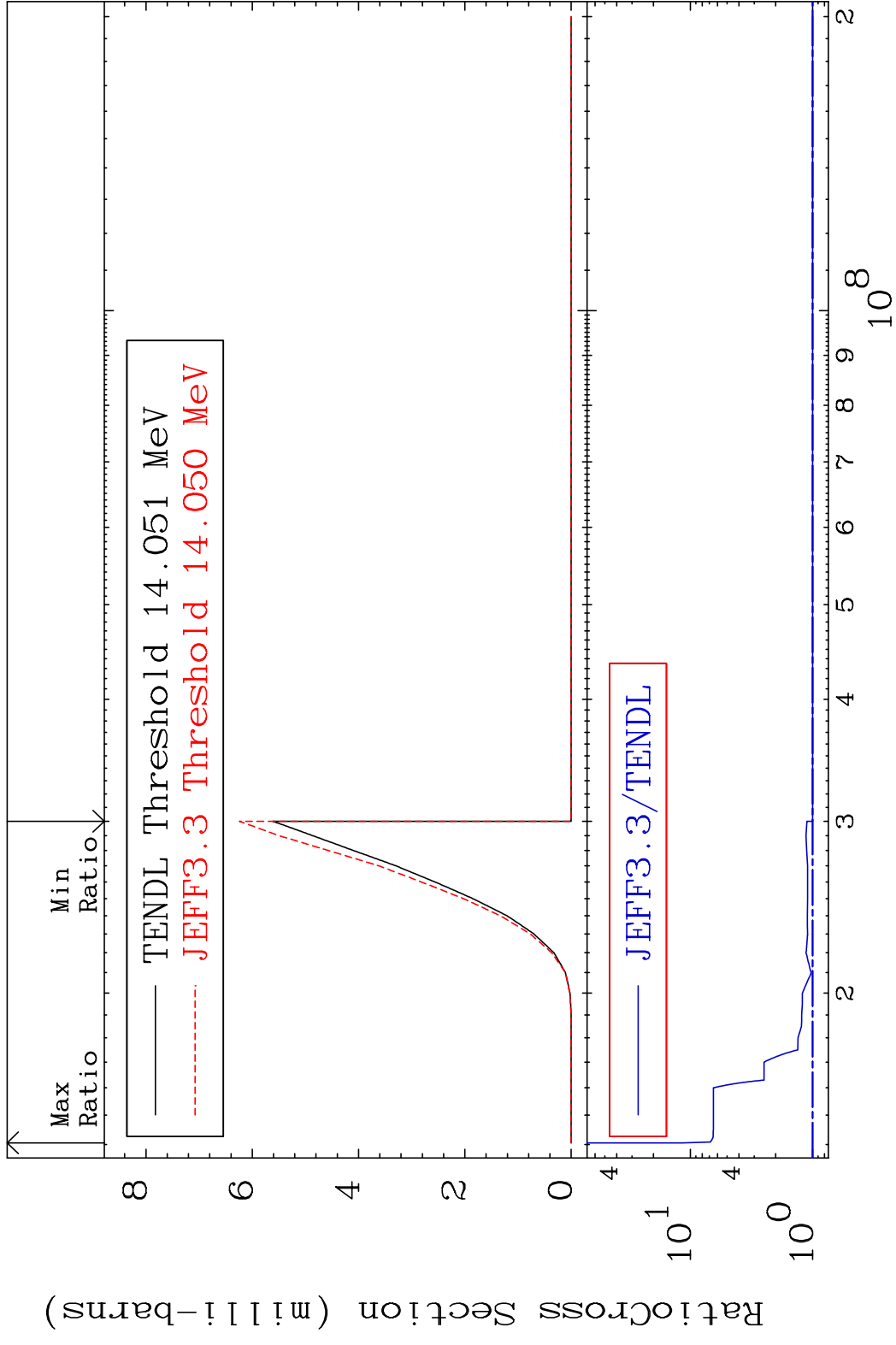


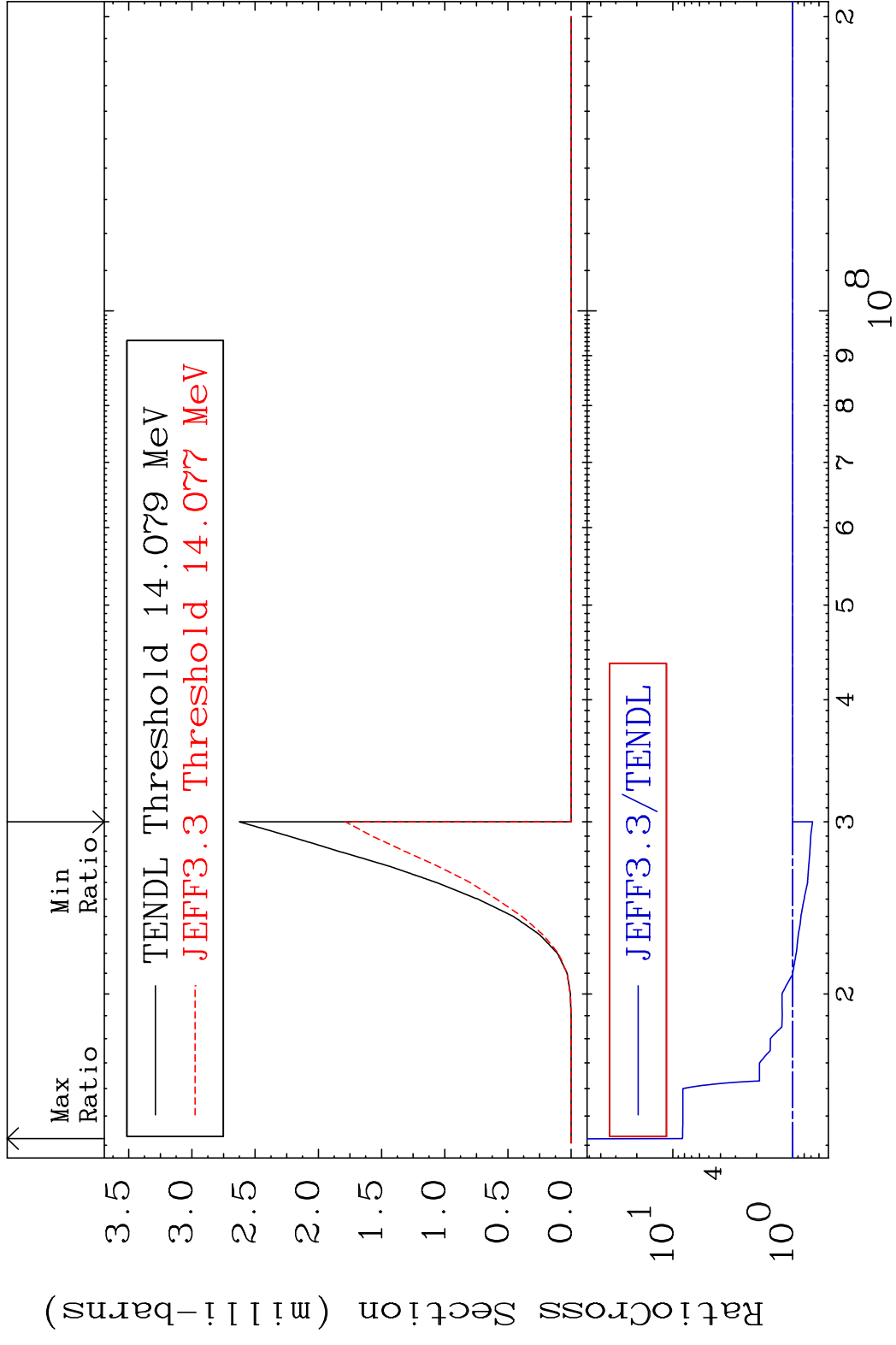


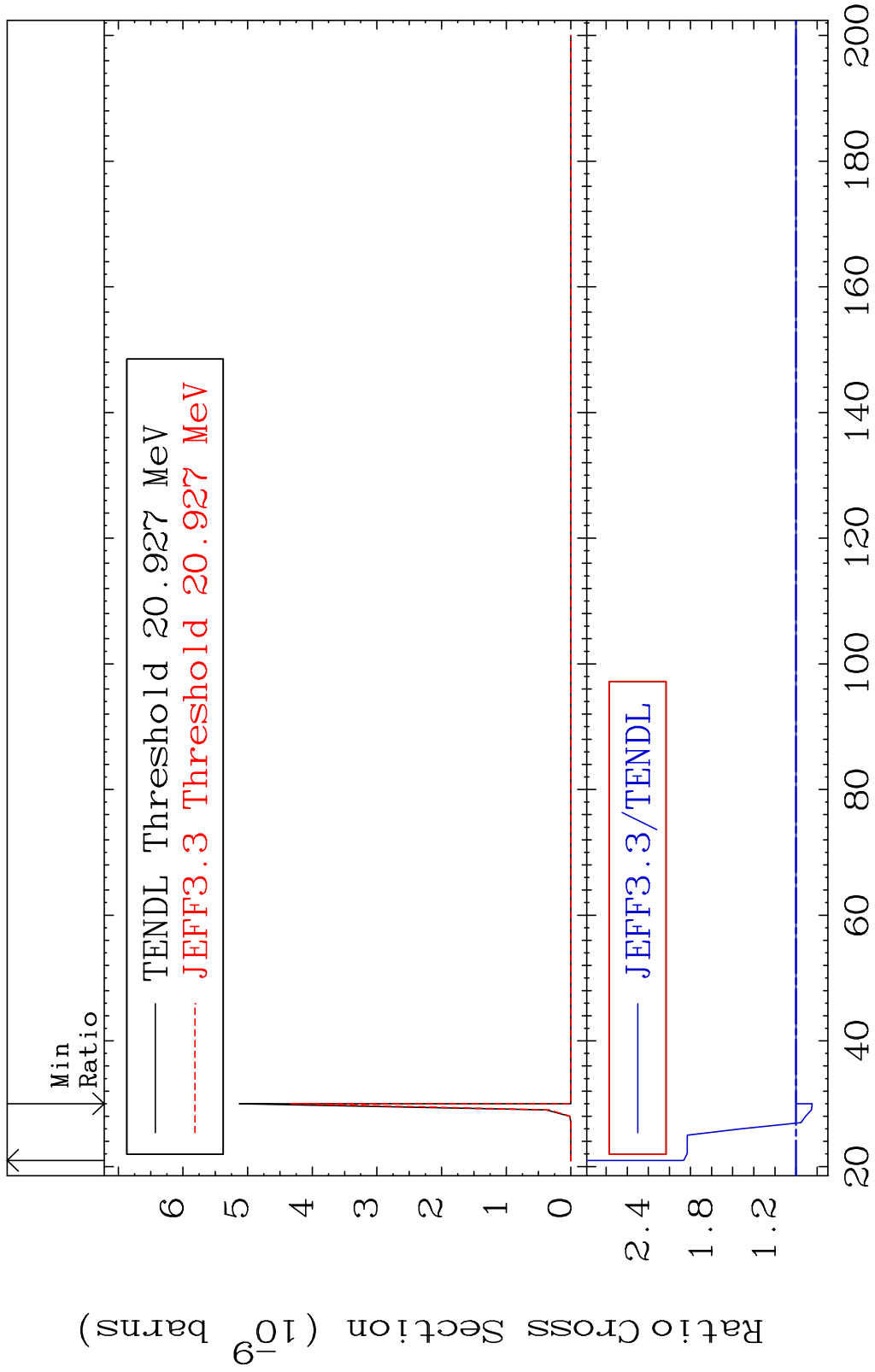


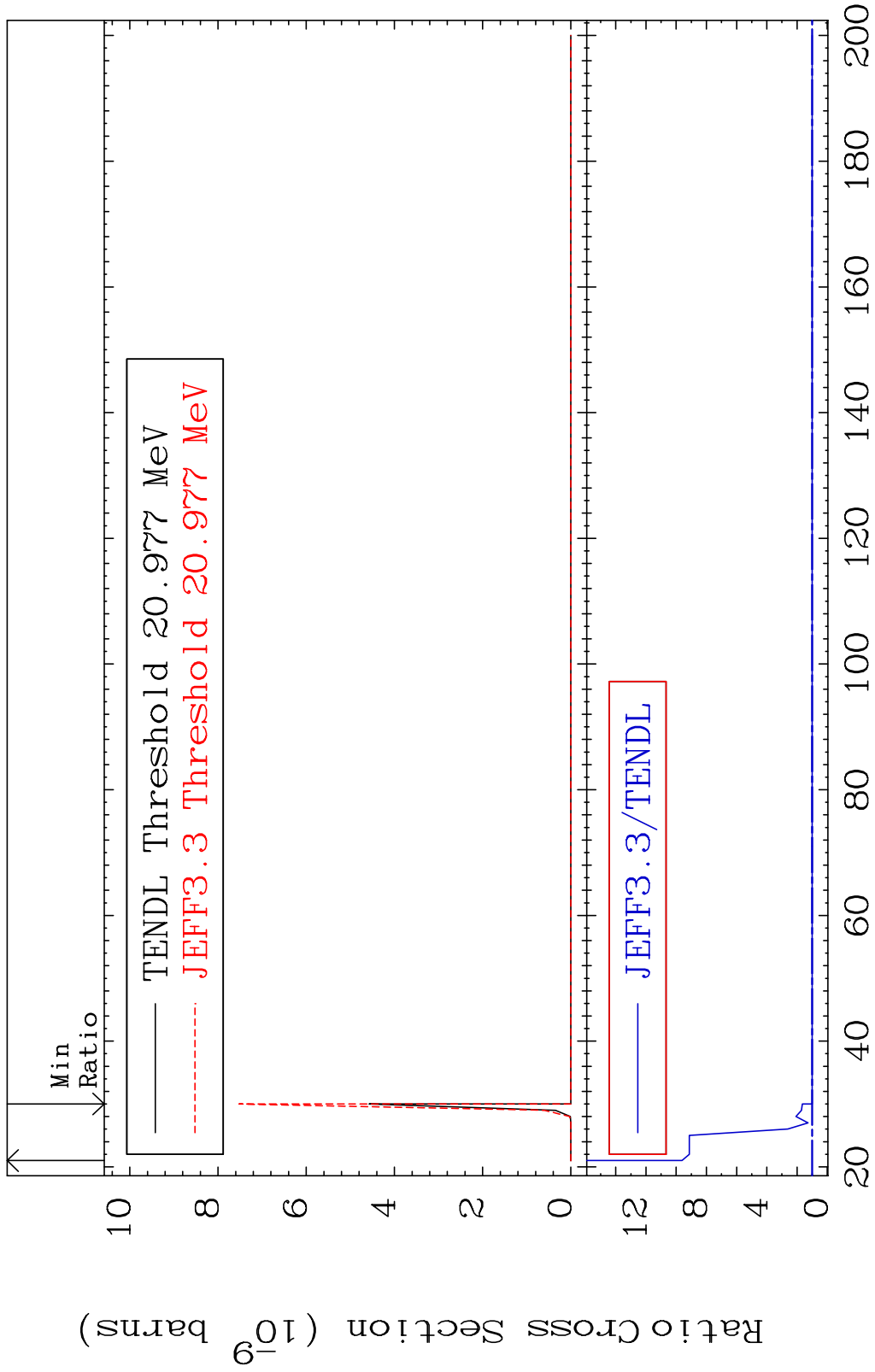


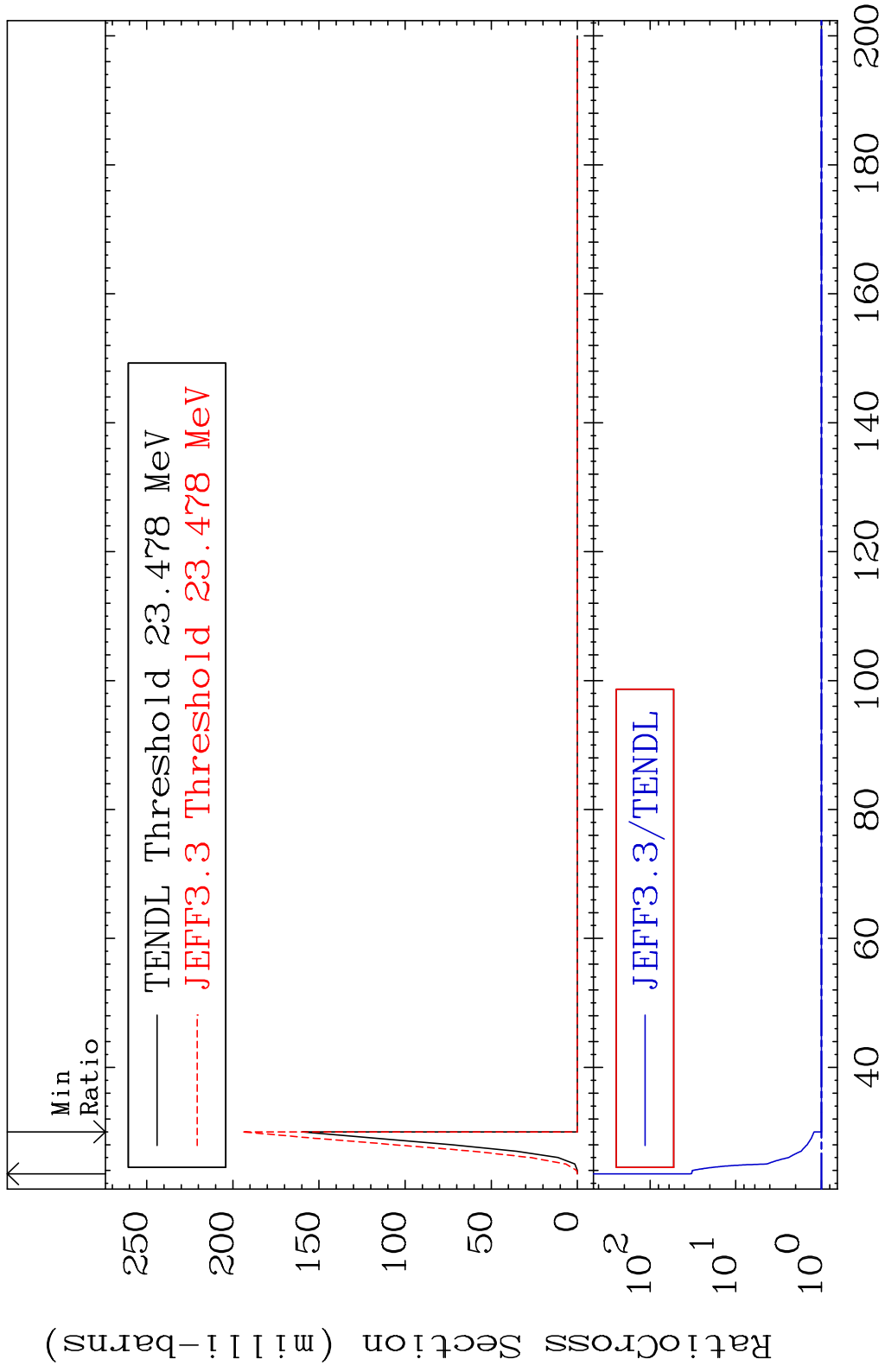


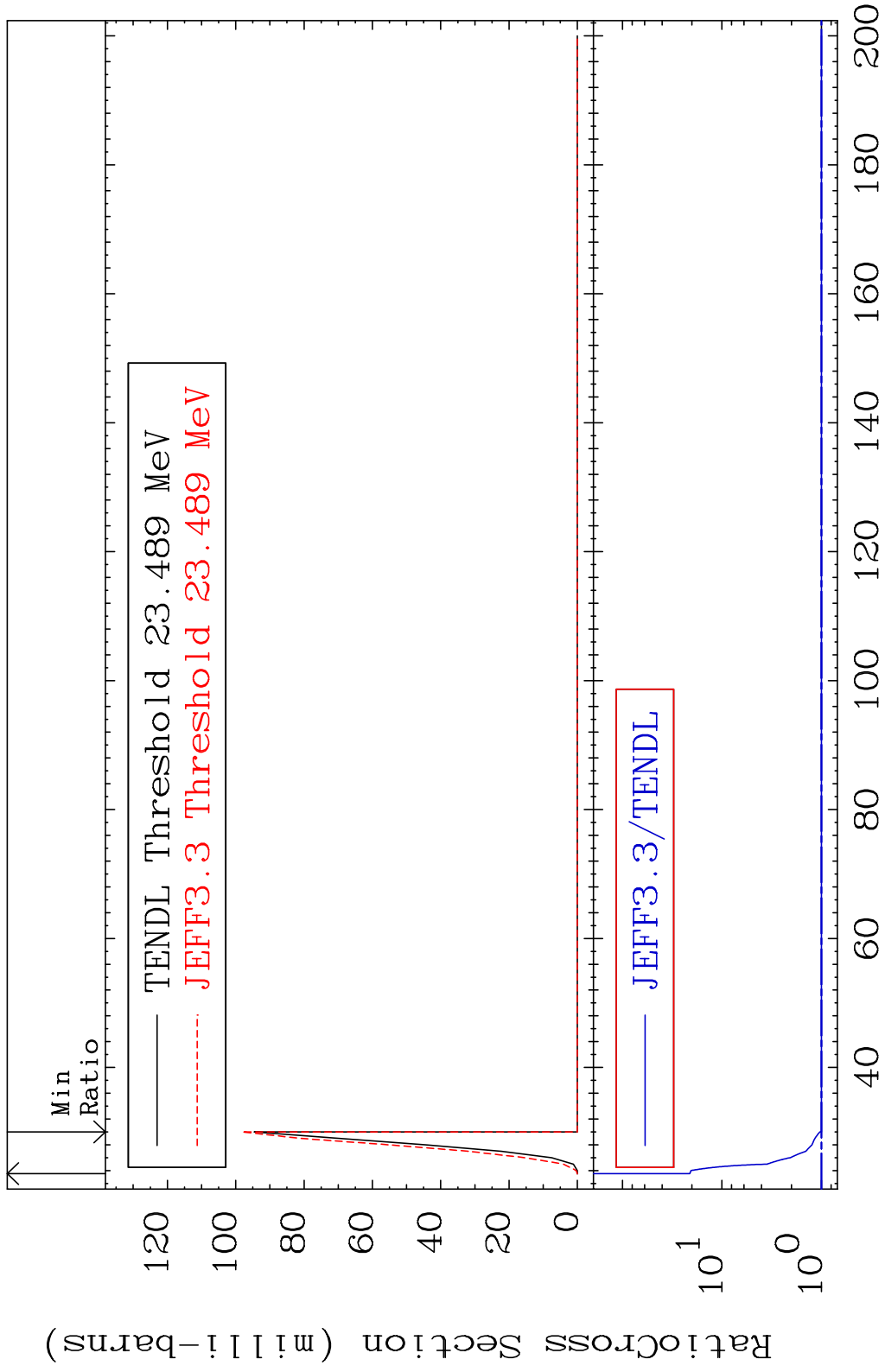


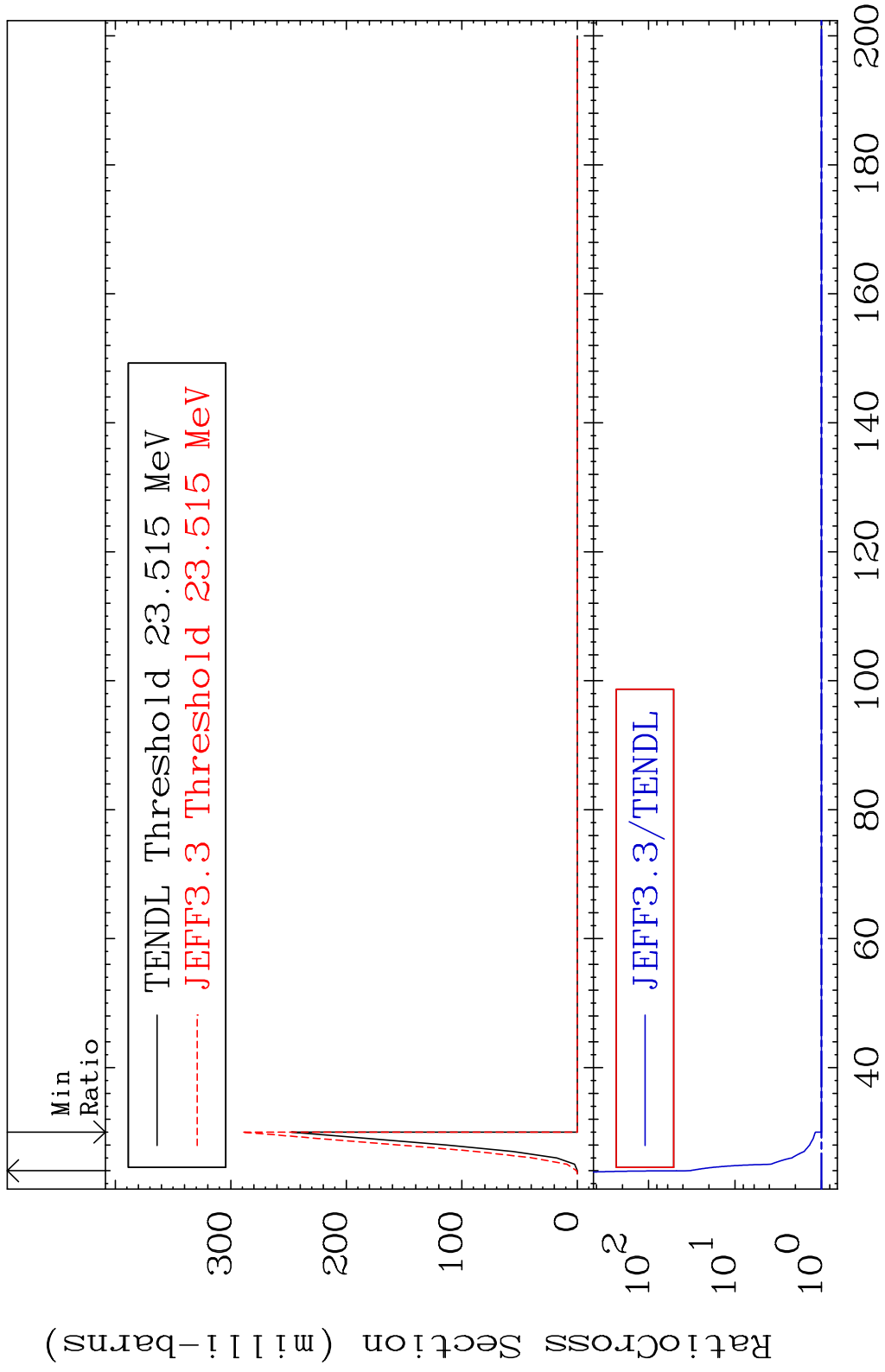


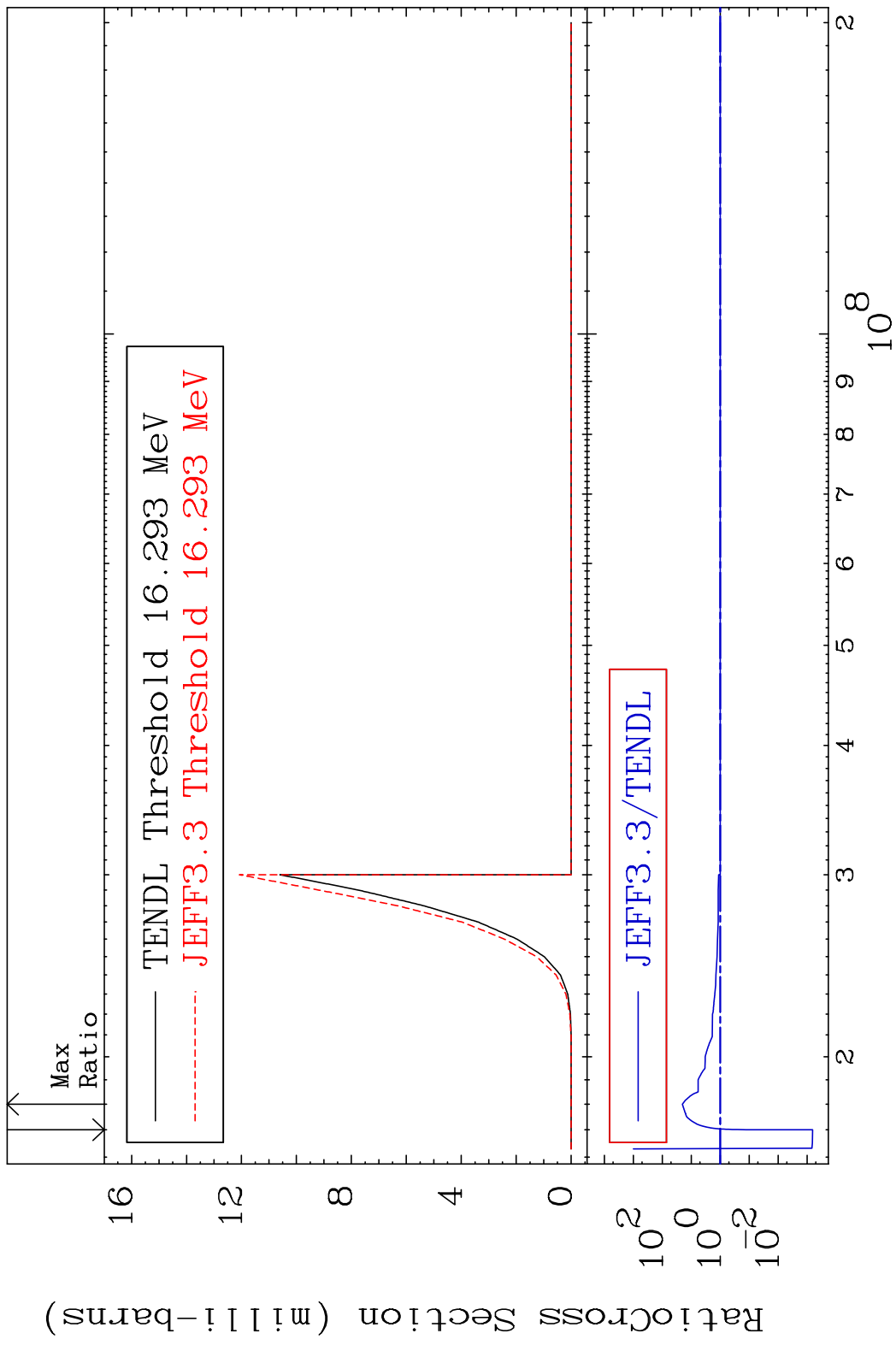


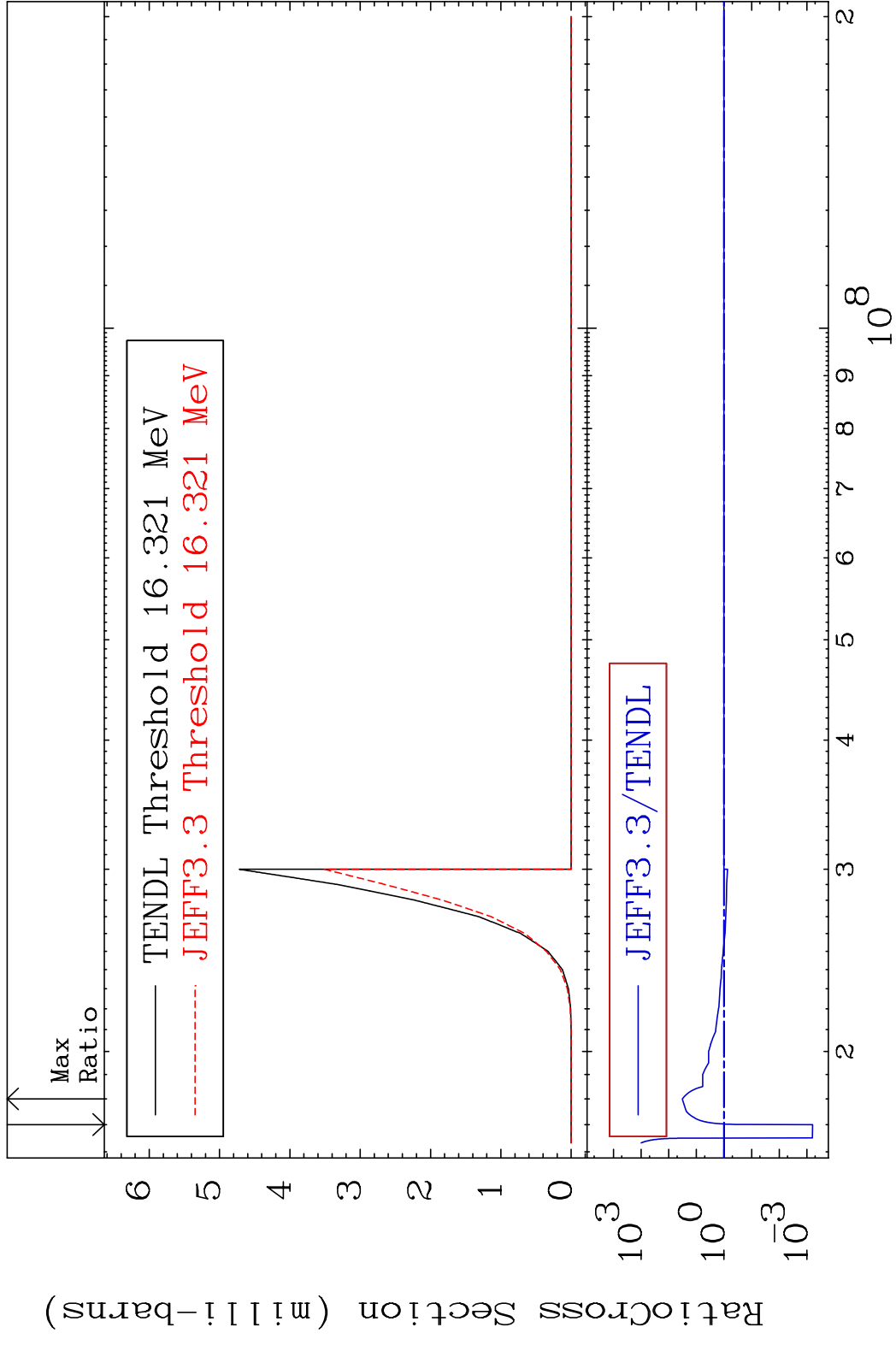


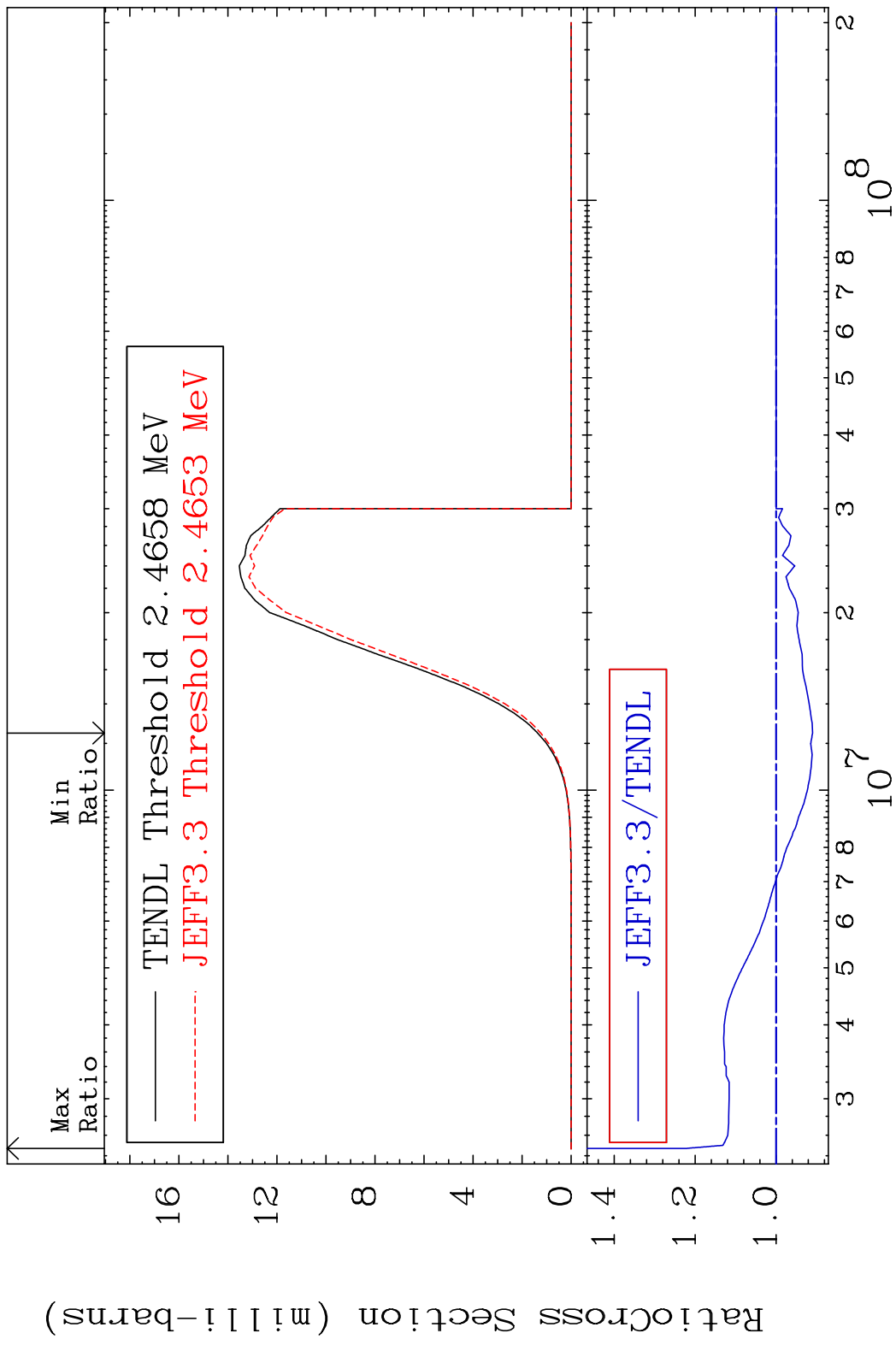


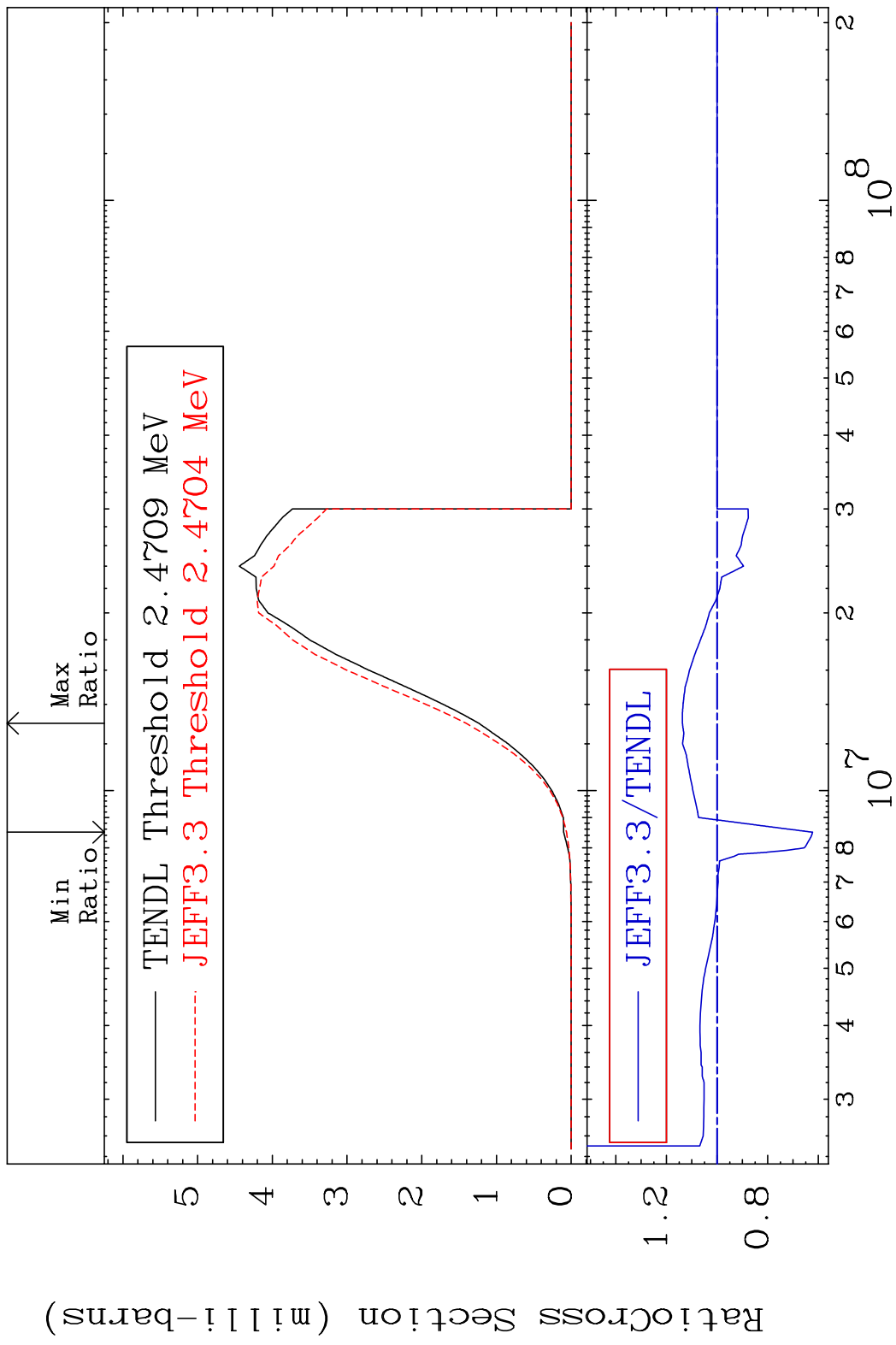




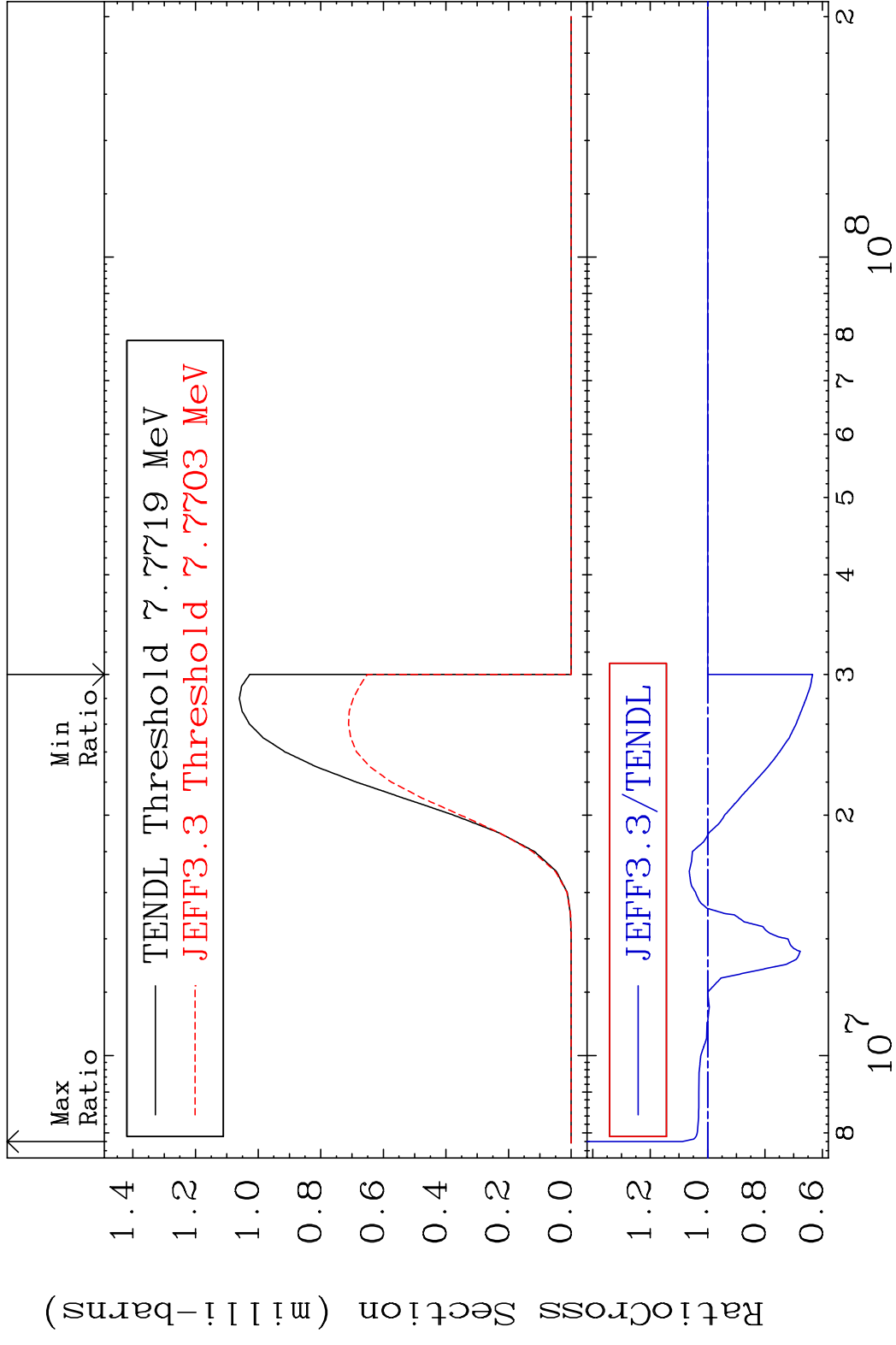


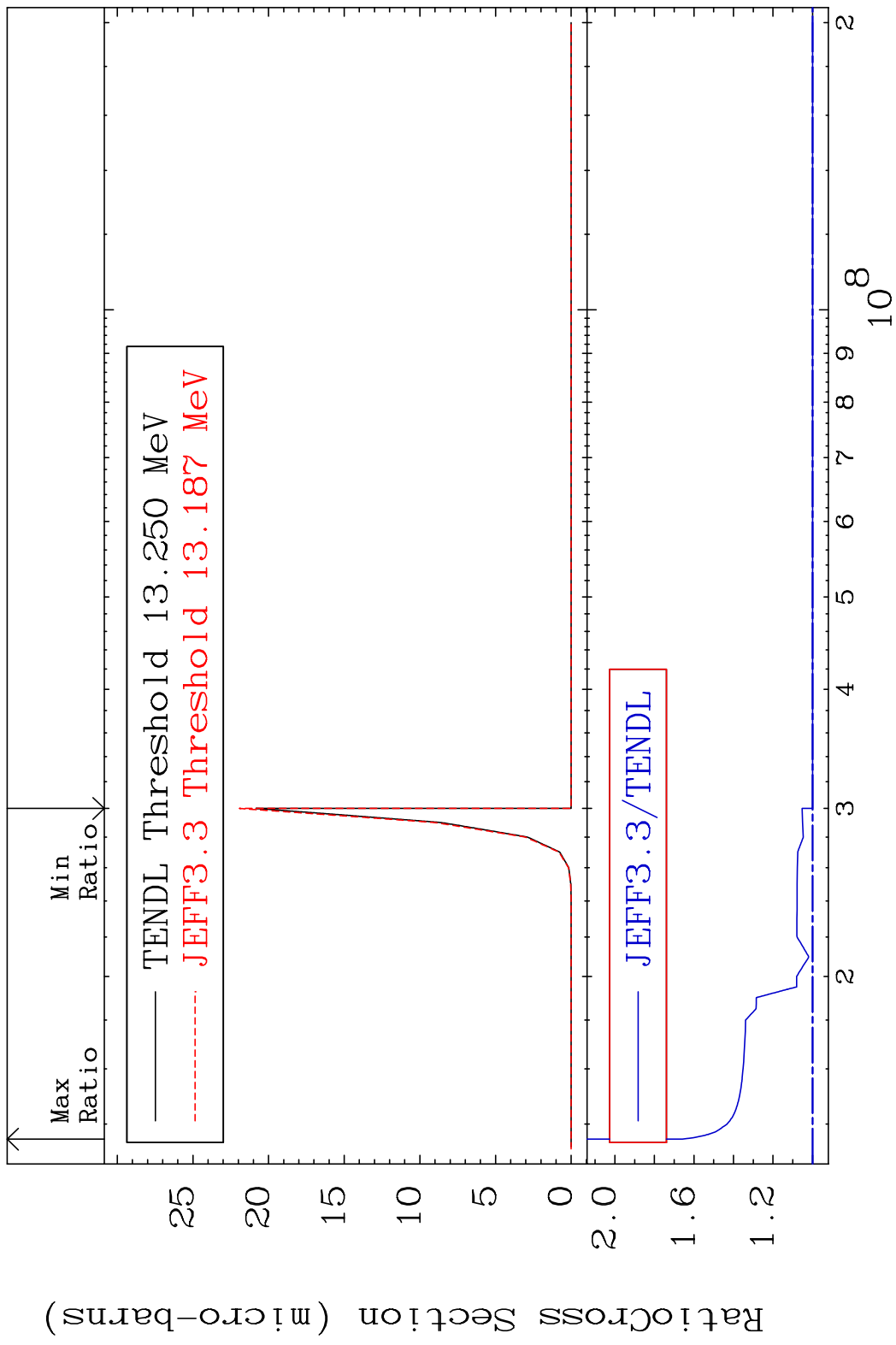


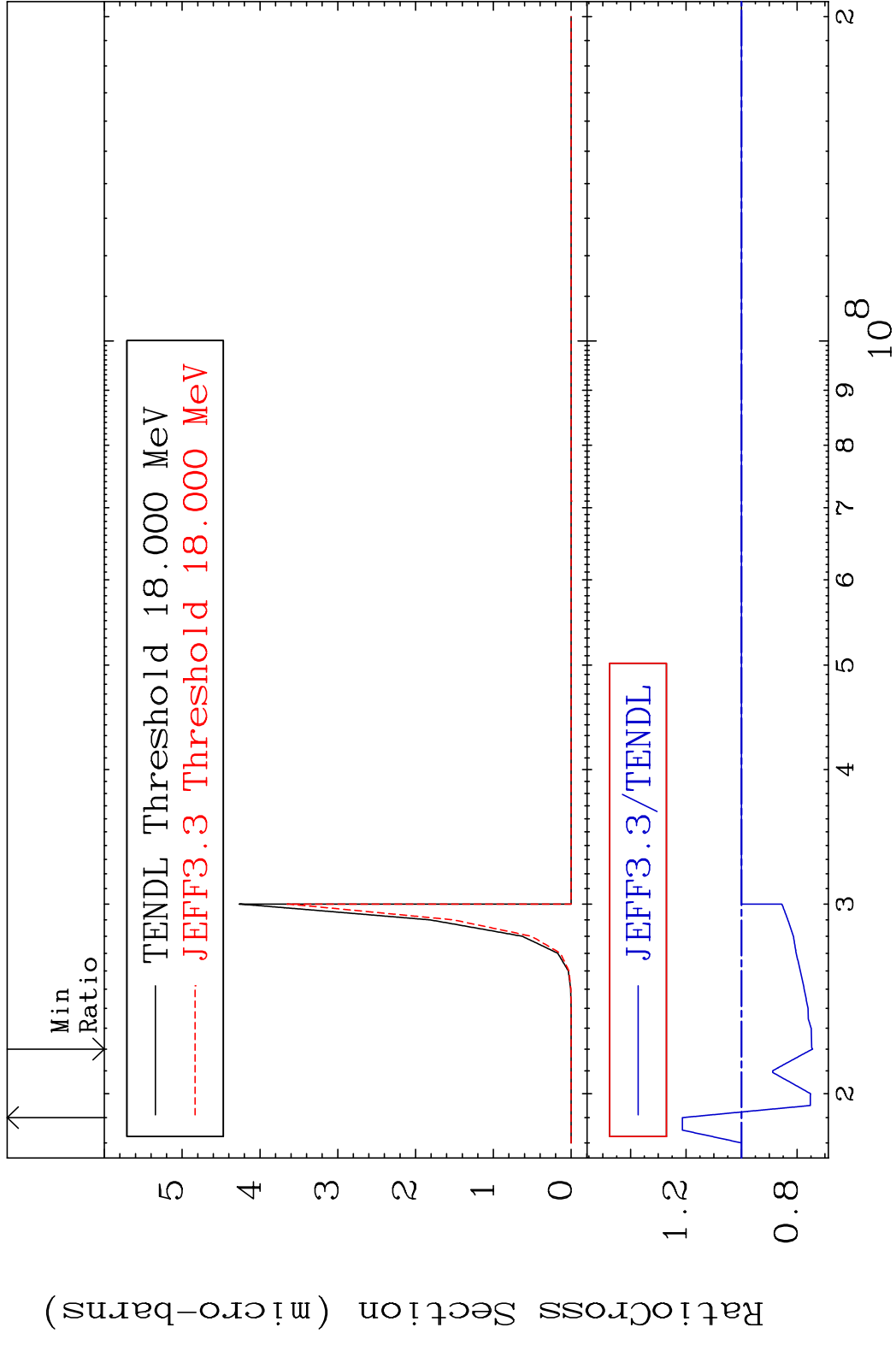


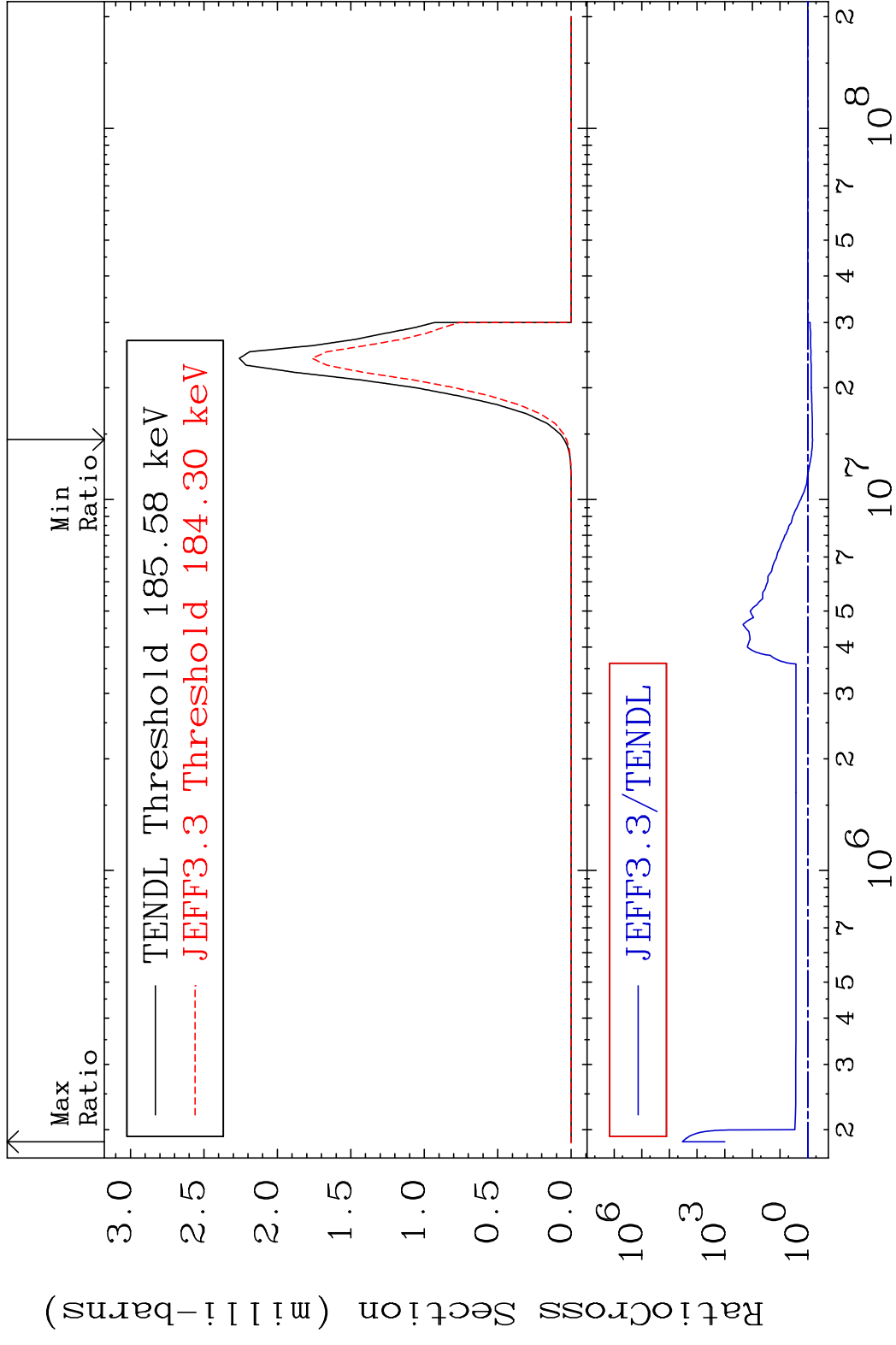


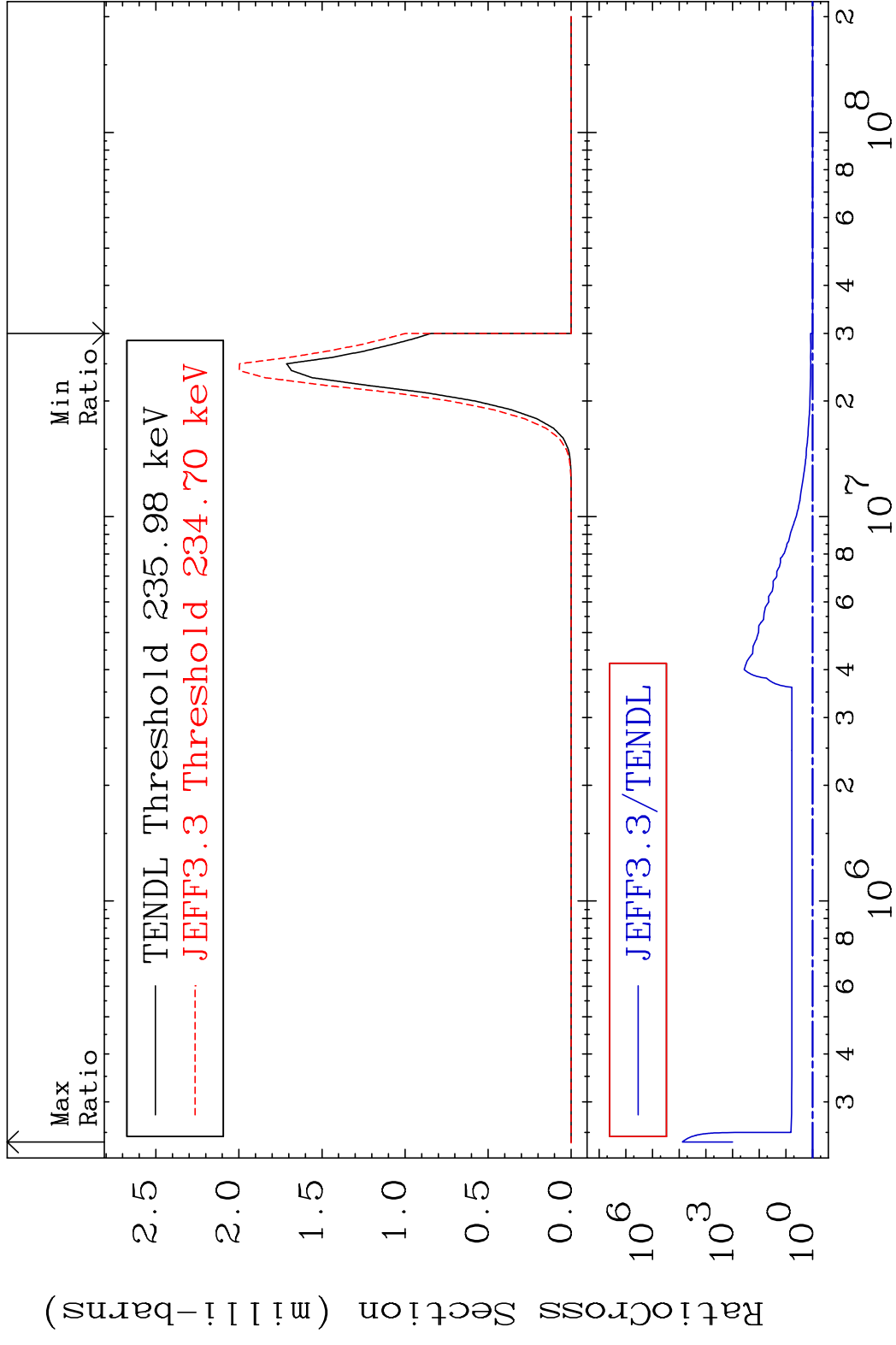
MAT 5143 (n, t):50-Sn-125m1 51-Sb-127
 Radionuclide Production Cross Section 5143 8.799 %



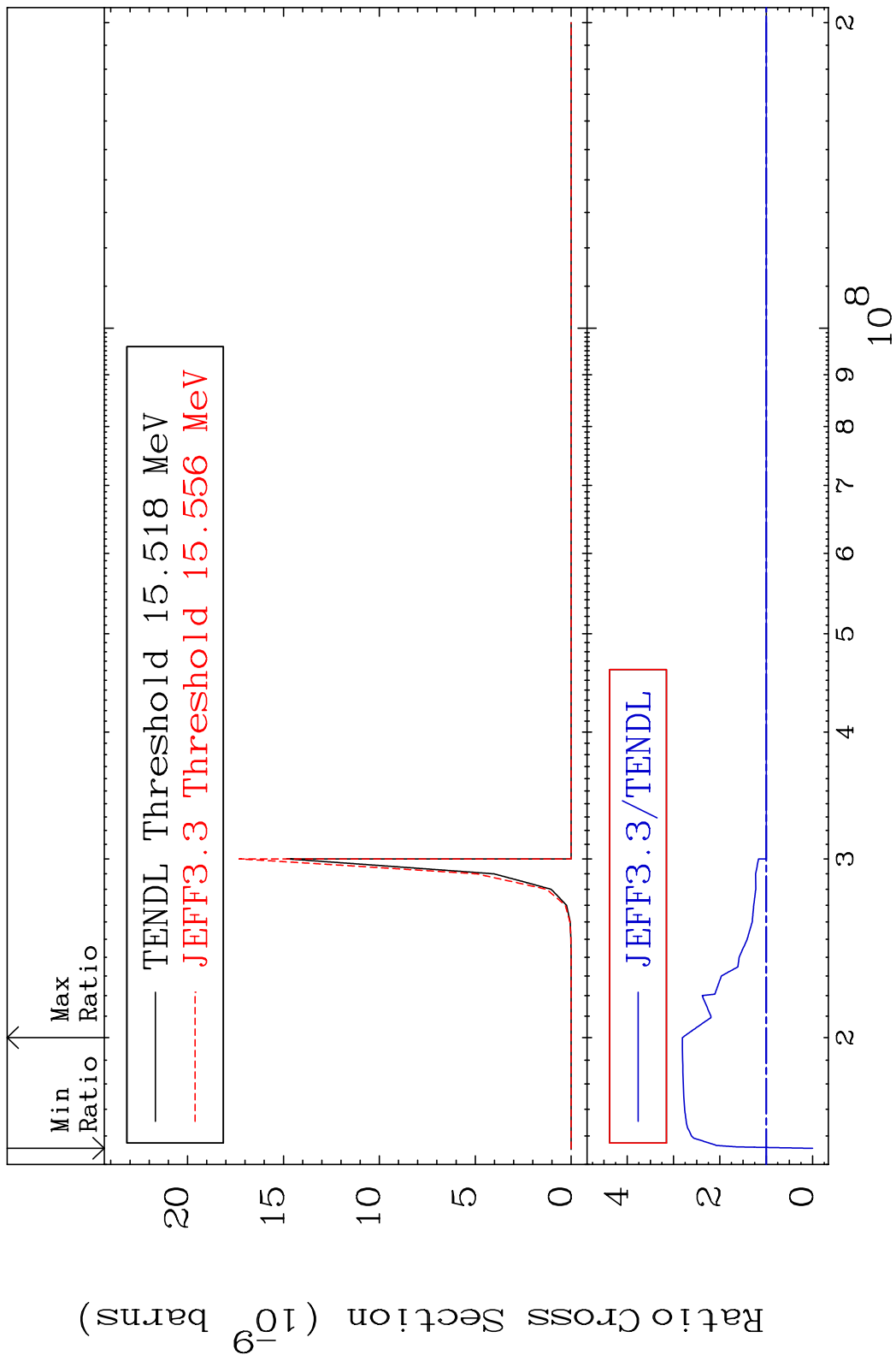




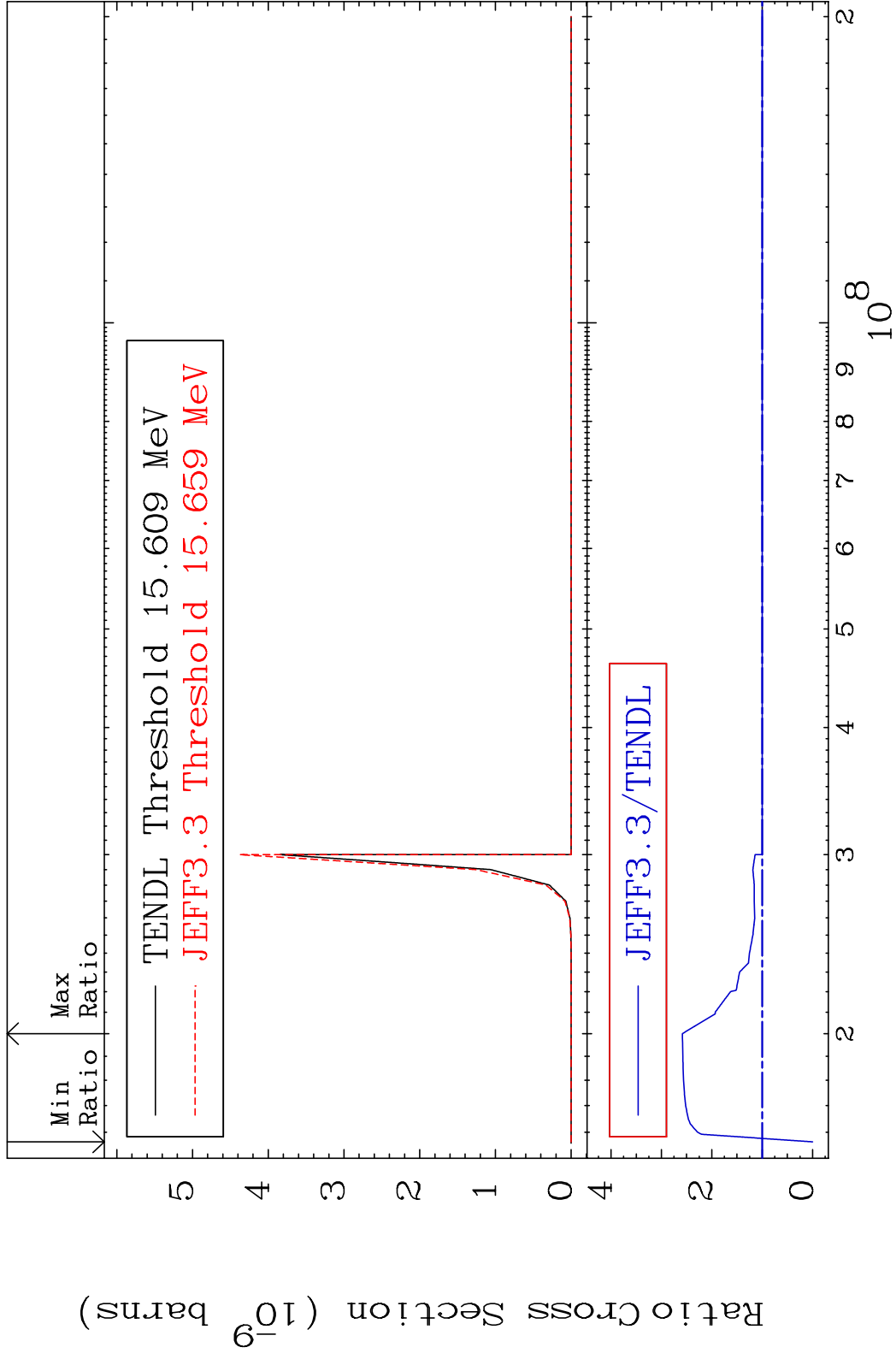




MAT 5143 (n,2p):49-In-126g 51-Sb-127
 Radionuclide Production Cross Section 181.0 %



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