

Program Complot
(Version 2021-1)

by

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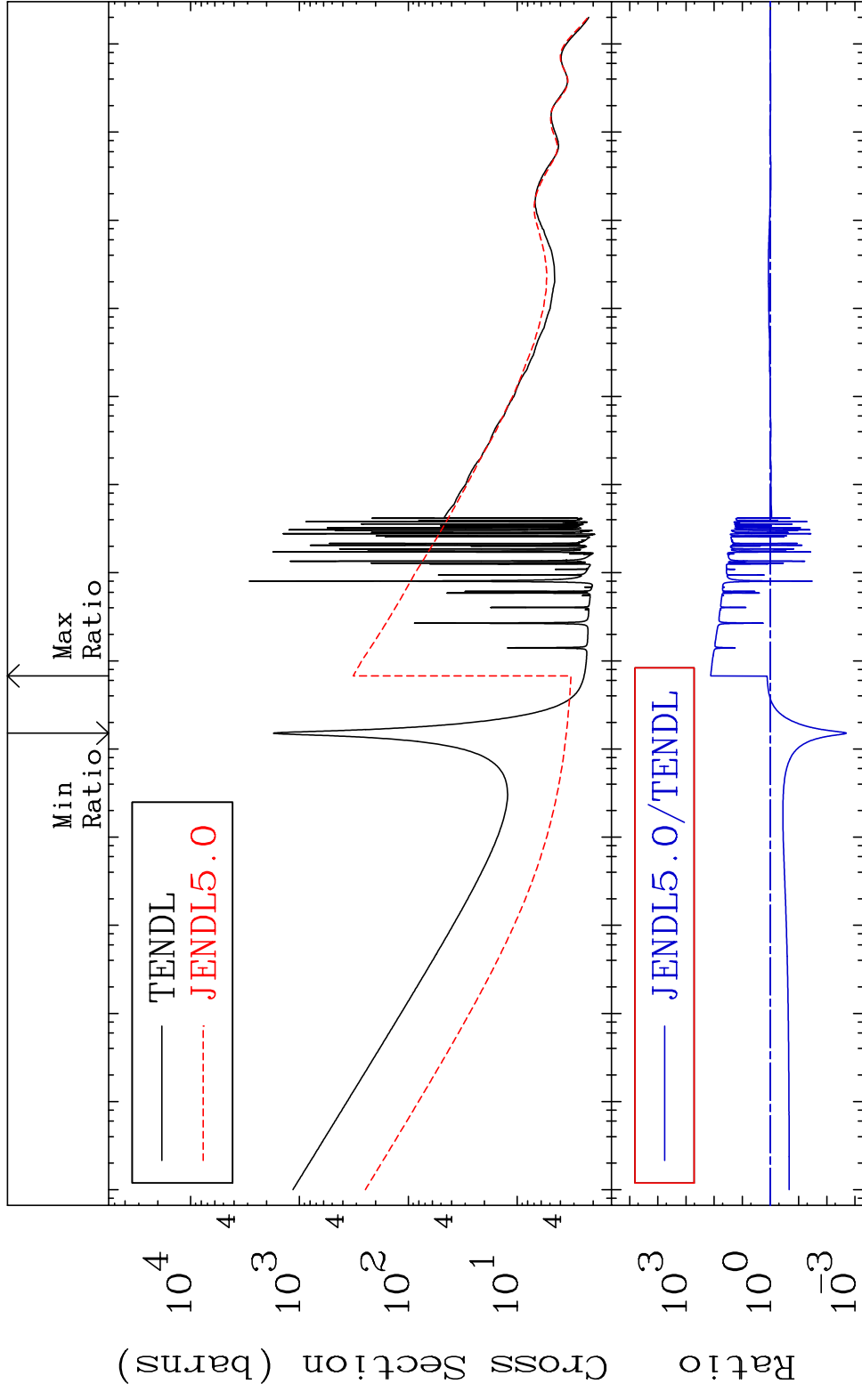
Press Mouse Button to Start

MAT 5722

57-La-137

Total

Cross Section -99.80 To 9999. %



1

Incident Energy (eV)

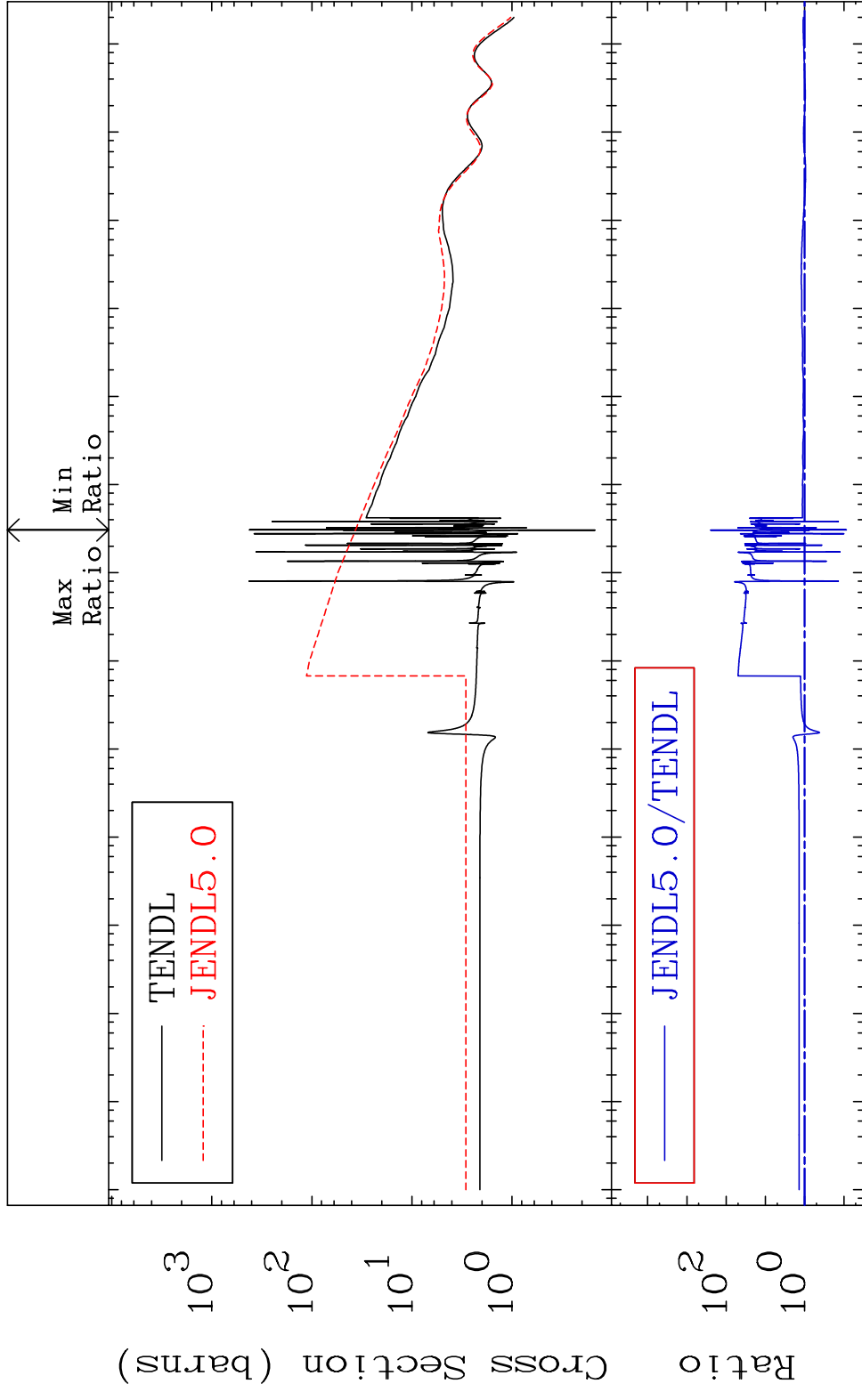
57-La-137

MAT 5722

Elastic

57-La-137

Cross Section -91.33 To 9999. %

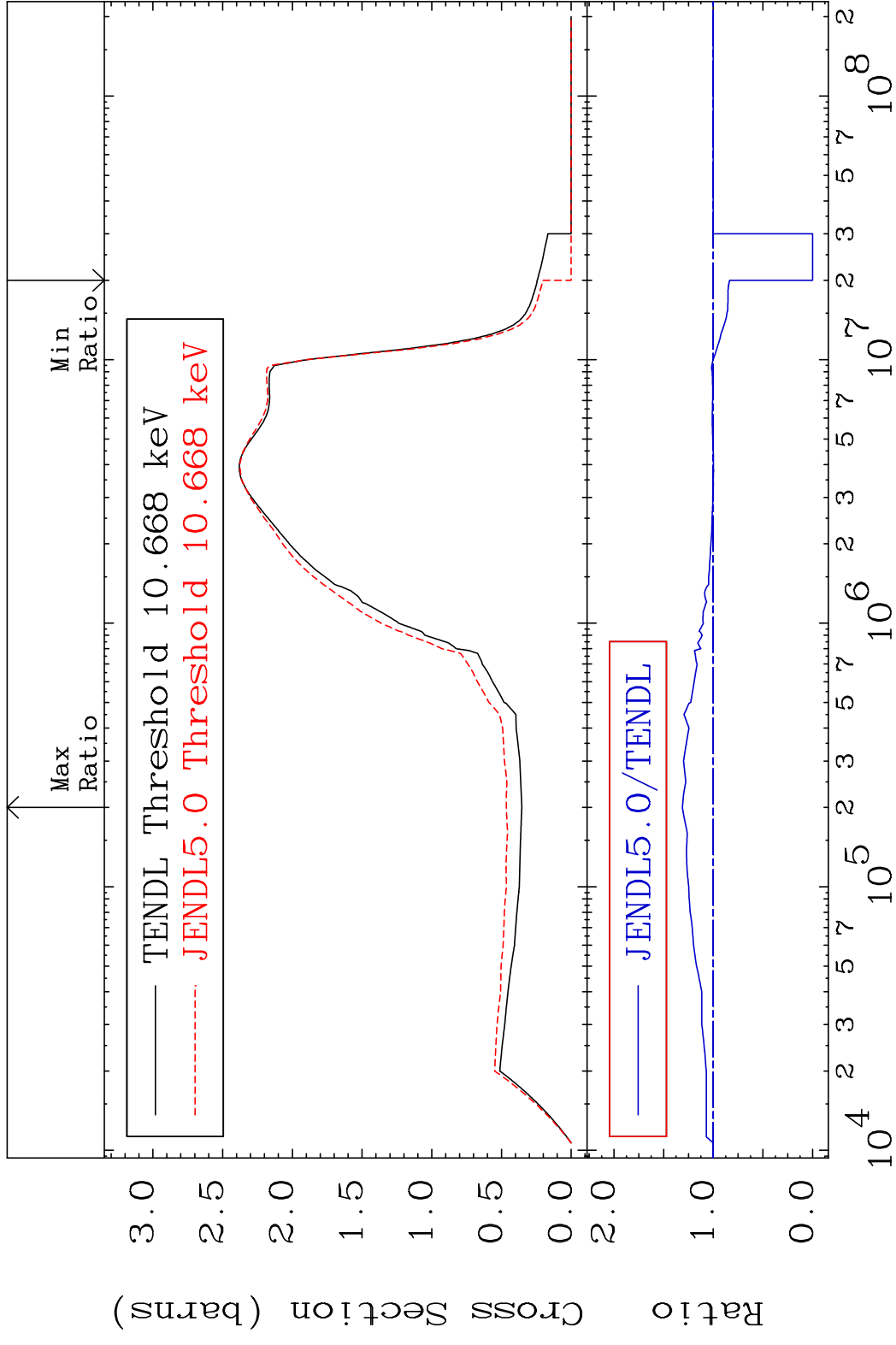


2

Incident Energy (eV)

57-La-137

MAT 5722 Inelastic 57-La-137
 Cross Section -100.0 To 31.15 %



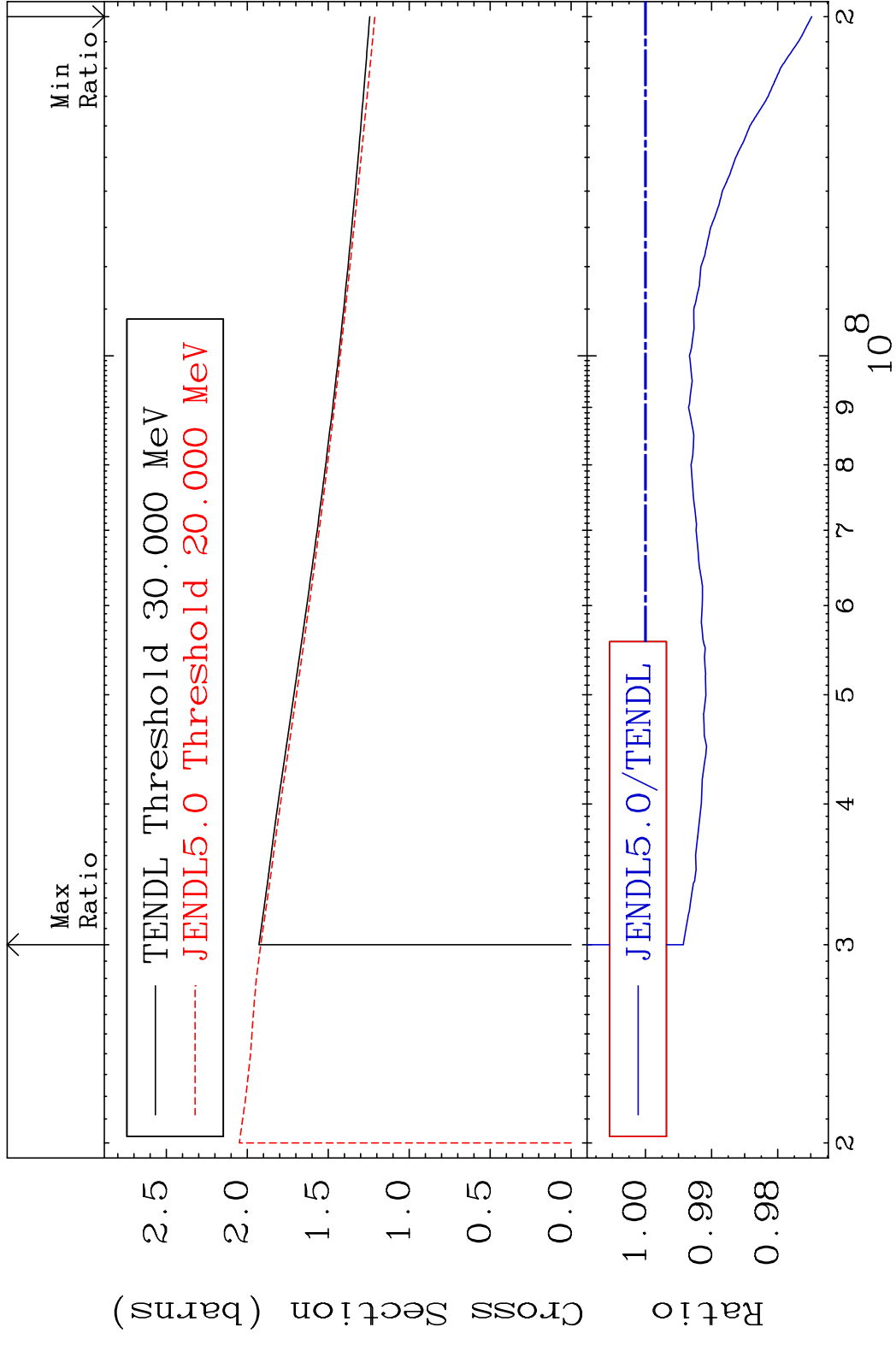
3 Incident Energy (eV) 57-La-137

MAT 5722

(n, remainder)

57-La-137

Cross Section -2.513 To -0.571%



4

Incident Energy (eV)

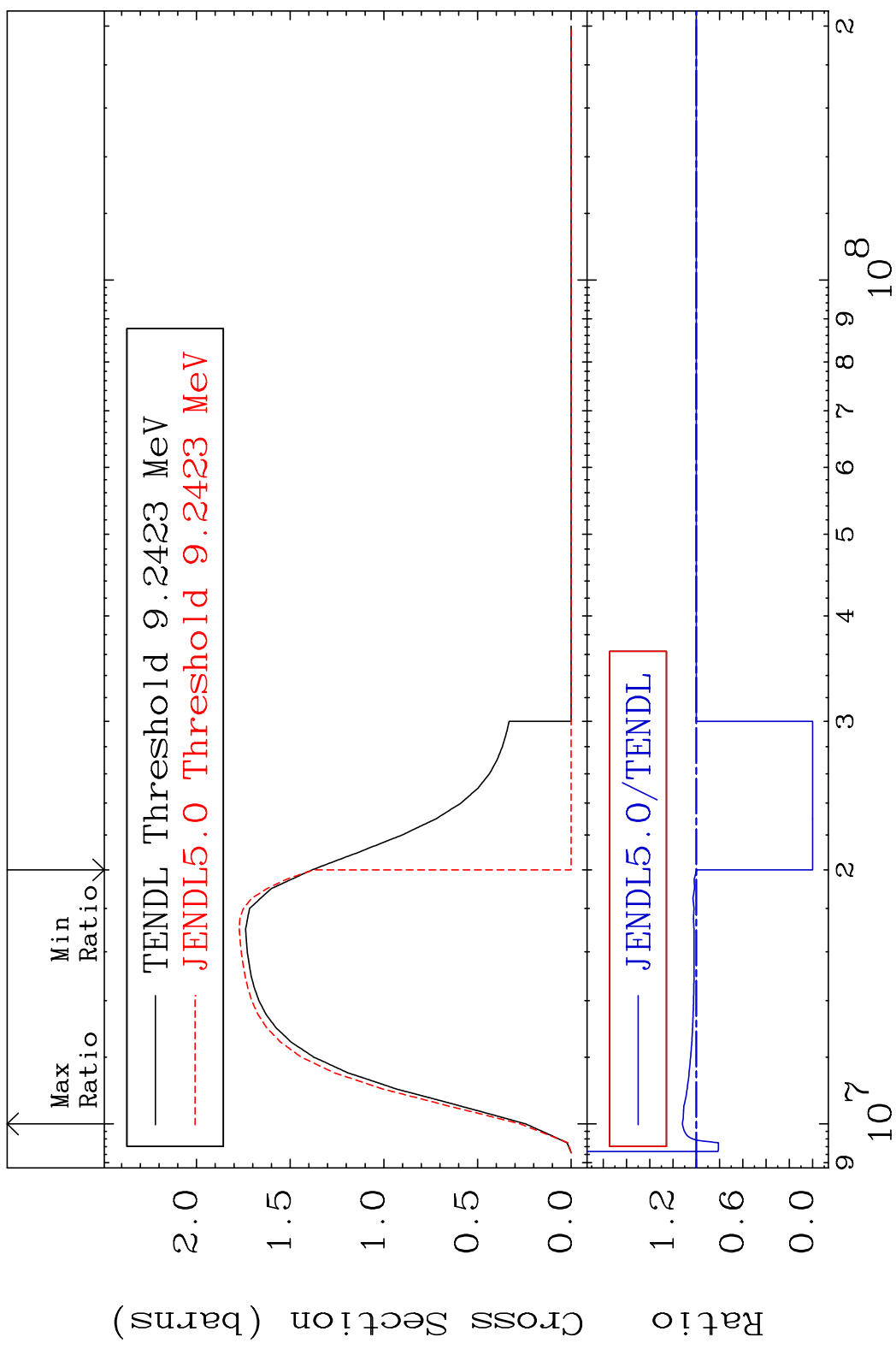
57-La-137

MAT 5722

(n,2n)

57-La-137

Cross Section -100.0 To 11.93 %



57-La-137

Incident Energy (eV)

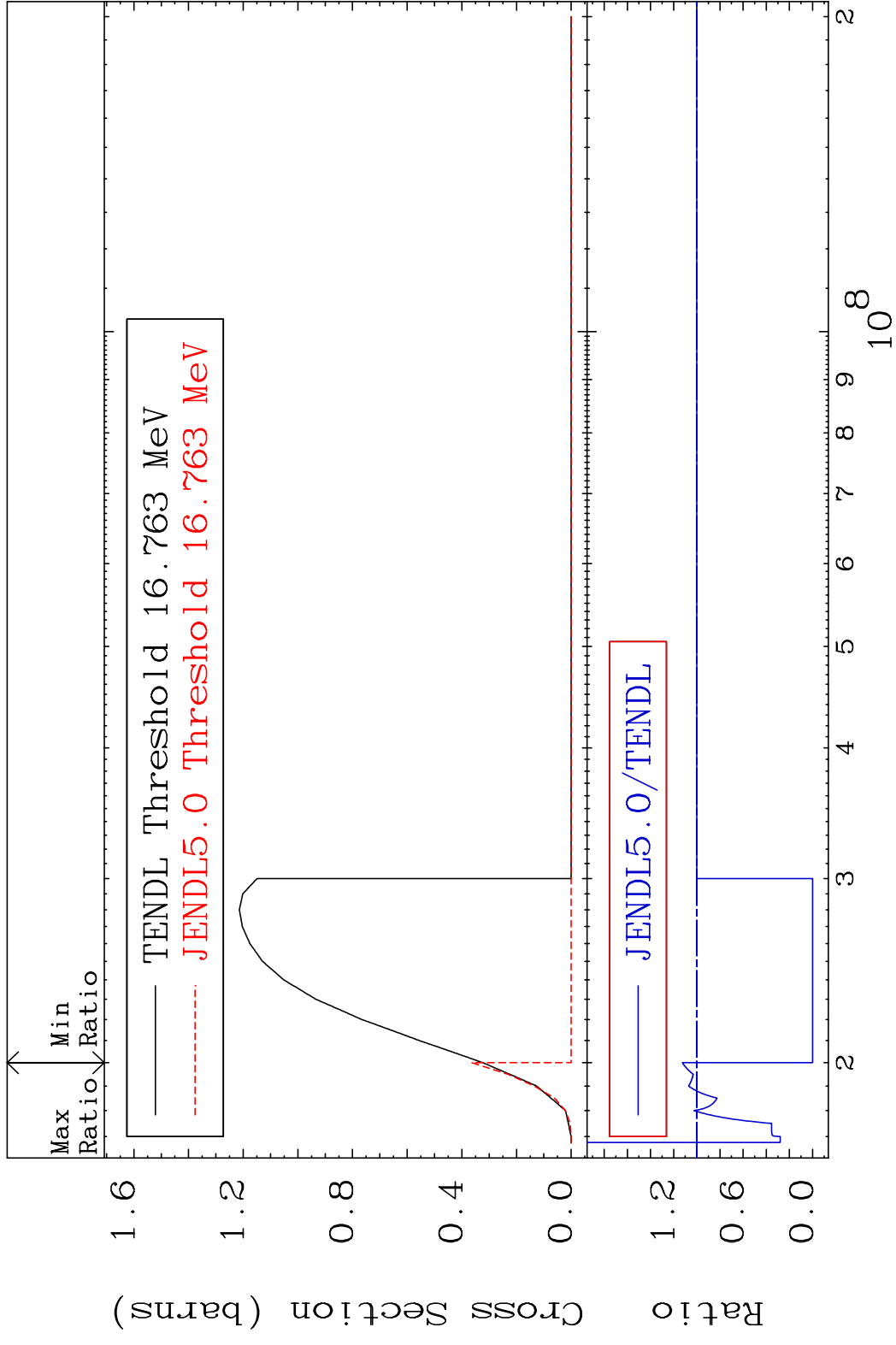
5

MAT 5722

(n,3n)

57-La-137

Cross Section -100.0 To 12.48 %

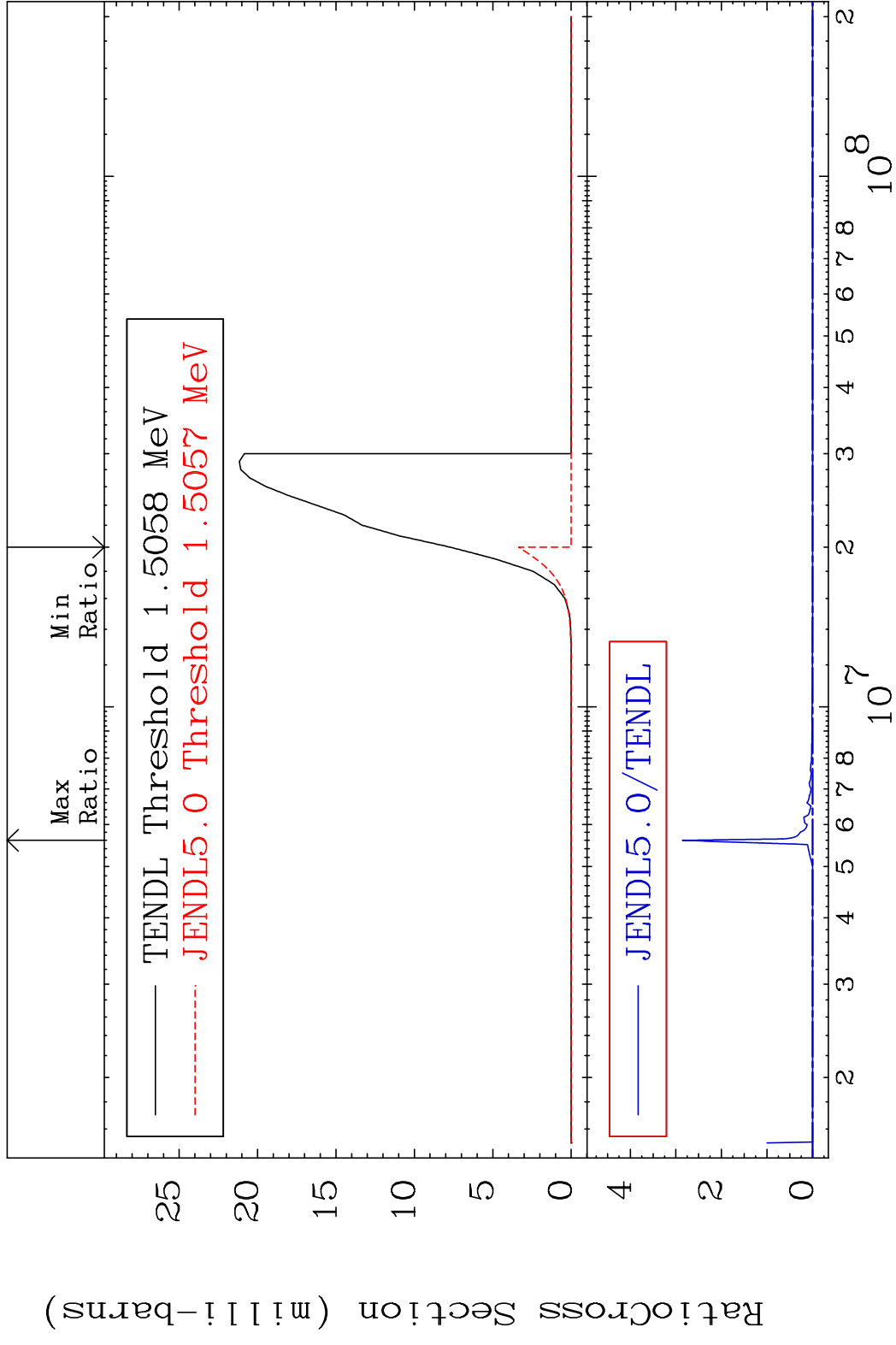


MAT 5722

(n, n') α

57-La-137

Cross Section -100.0 To 9999. %



7

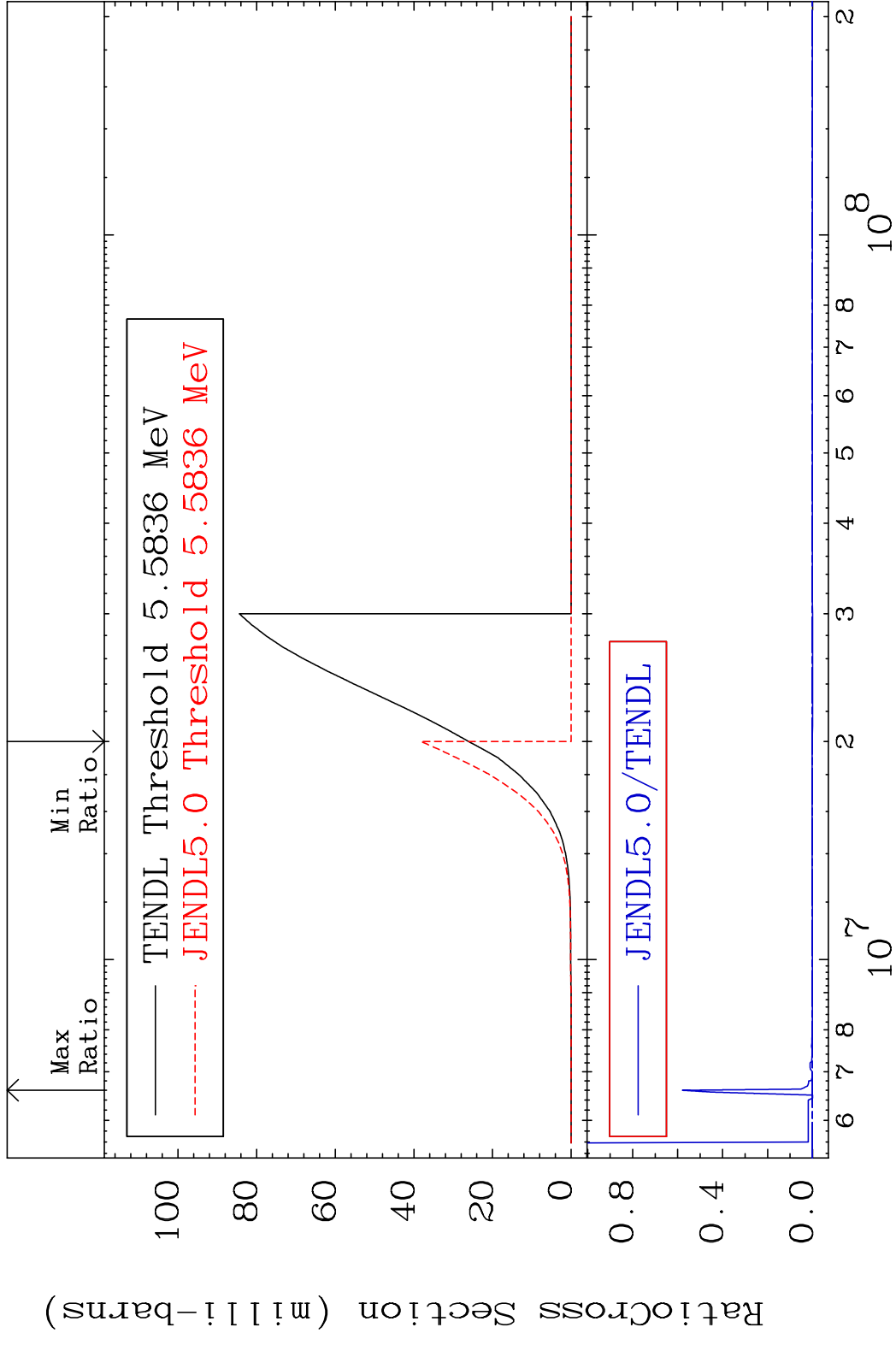
Incident Energy (eV)

57-La-137

MAT 5722

(n, n') p 57-La-137

Cross Section -100.0 To 9999. %

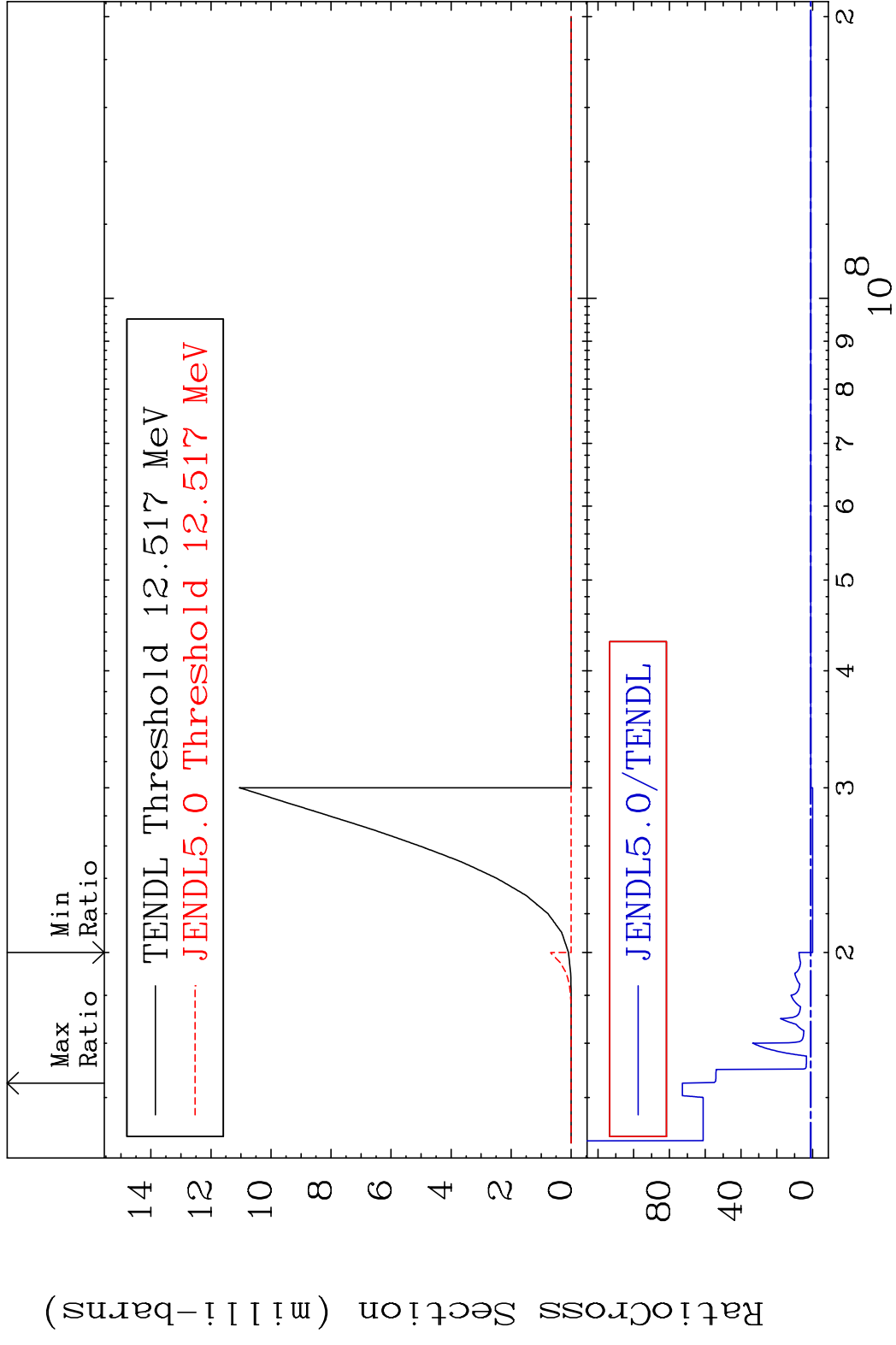


MAT 5722

(n, n') d

57-La-137

Cross Section -100.0 To 7179. %

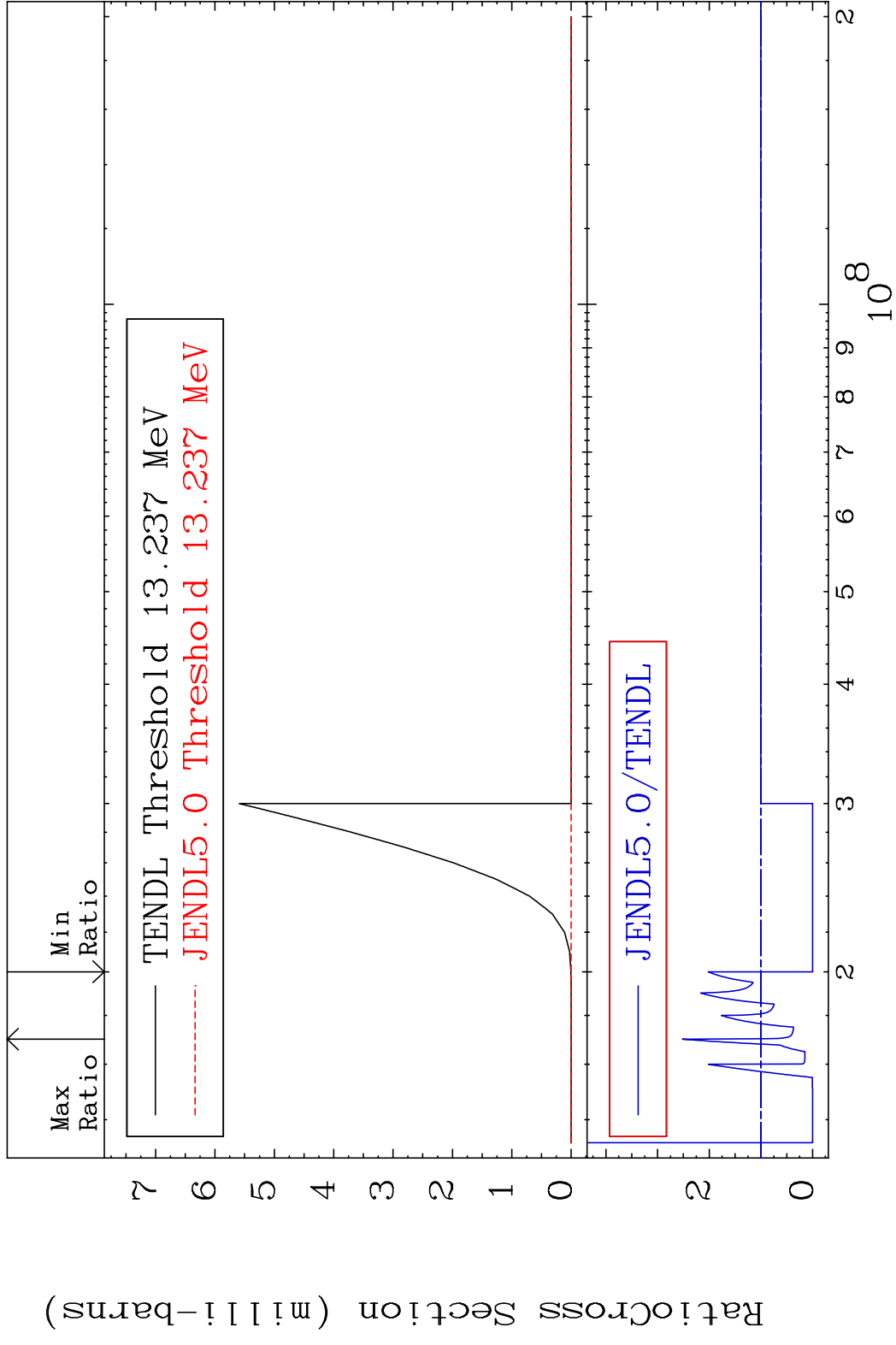


MAT 5722

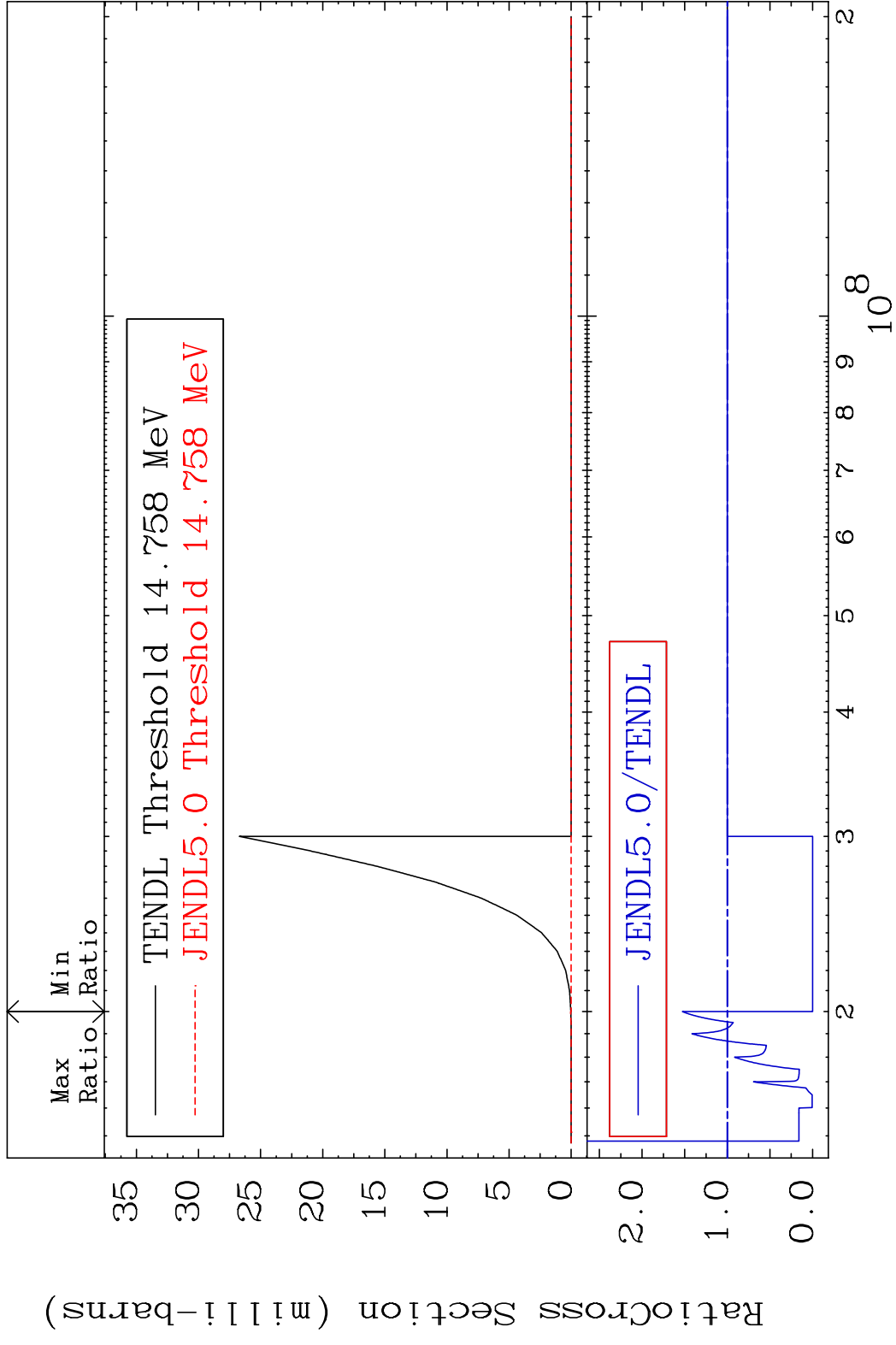
(n, n') t

57-La-137

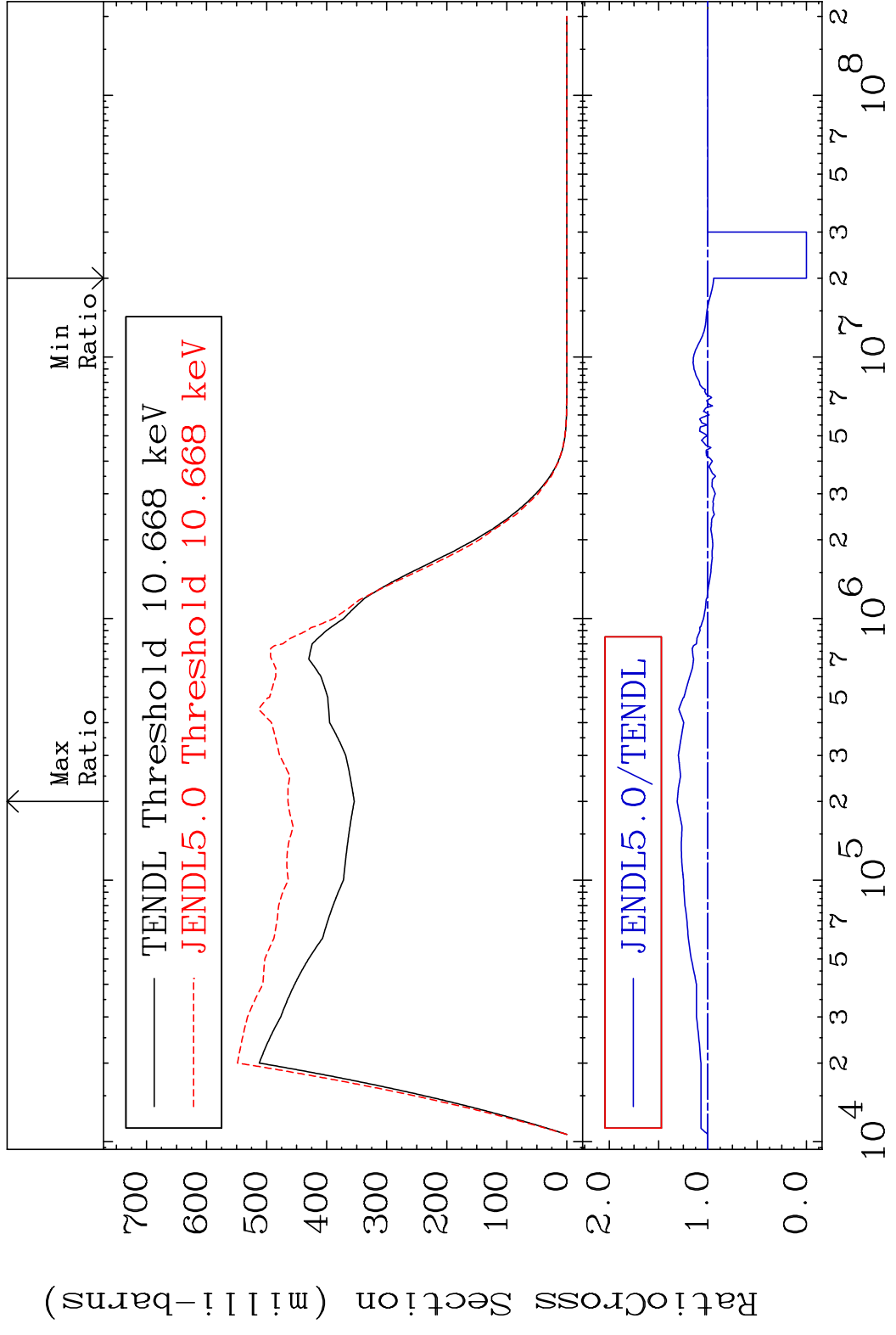
Cross Section -100.0 To 152.0 %



MAT 5722 (n,2n) p 57-La-137
 Cross Section -100.0 To 52.77 %

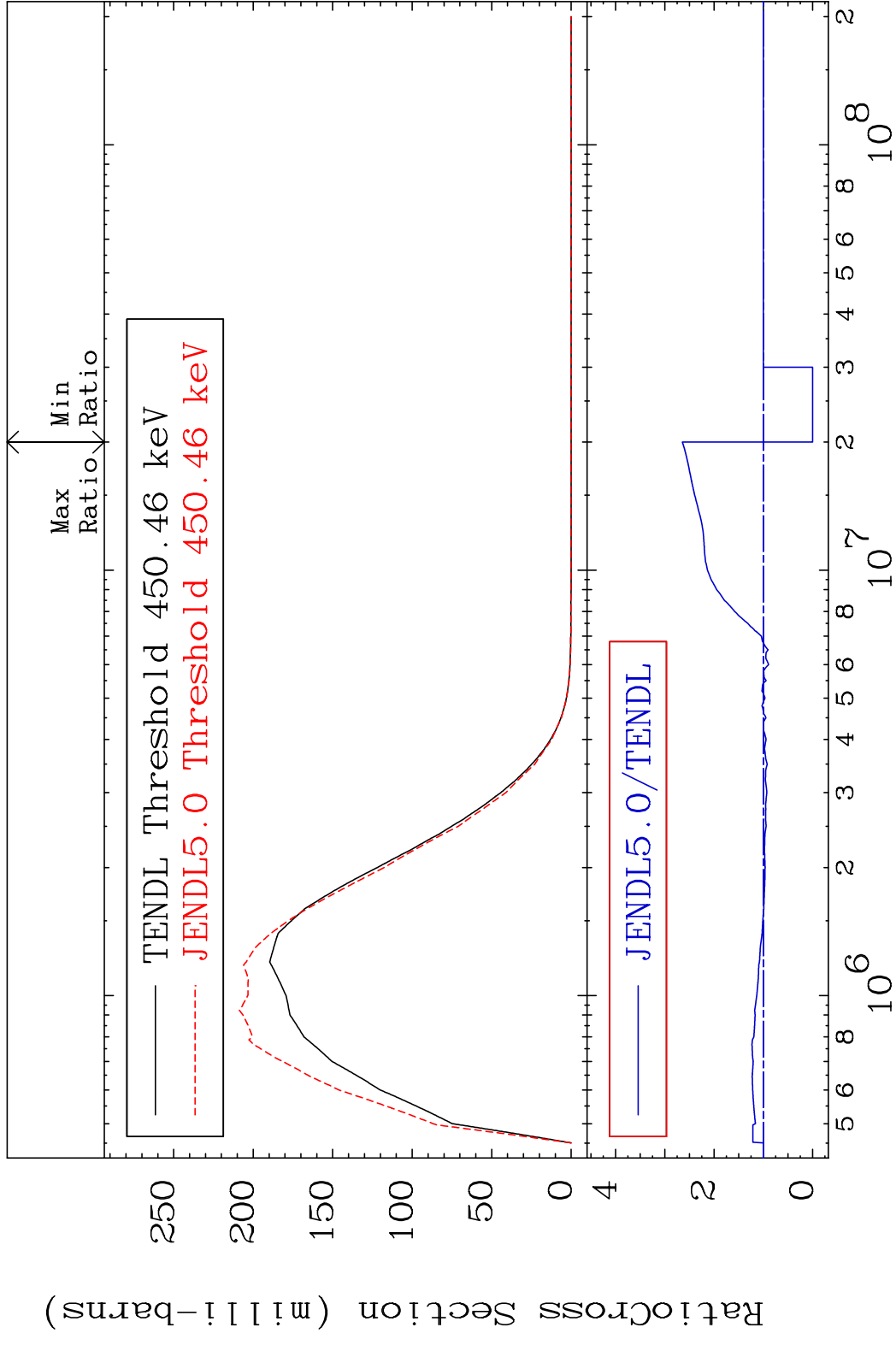


MAT 5722 MT= 51 (n, n') Level 57-La-137
 Cross Section -100.0 To 31.15 %

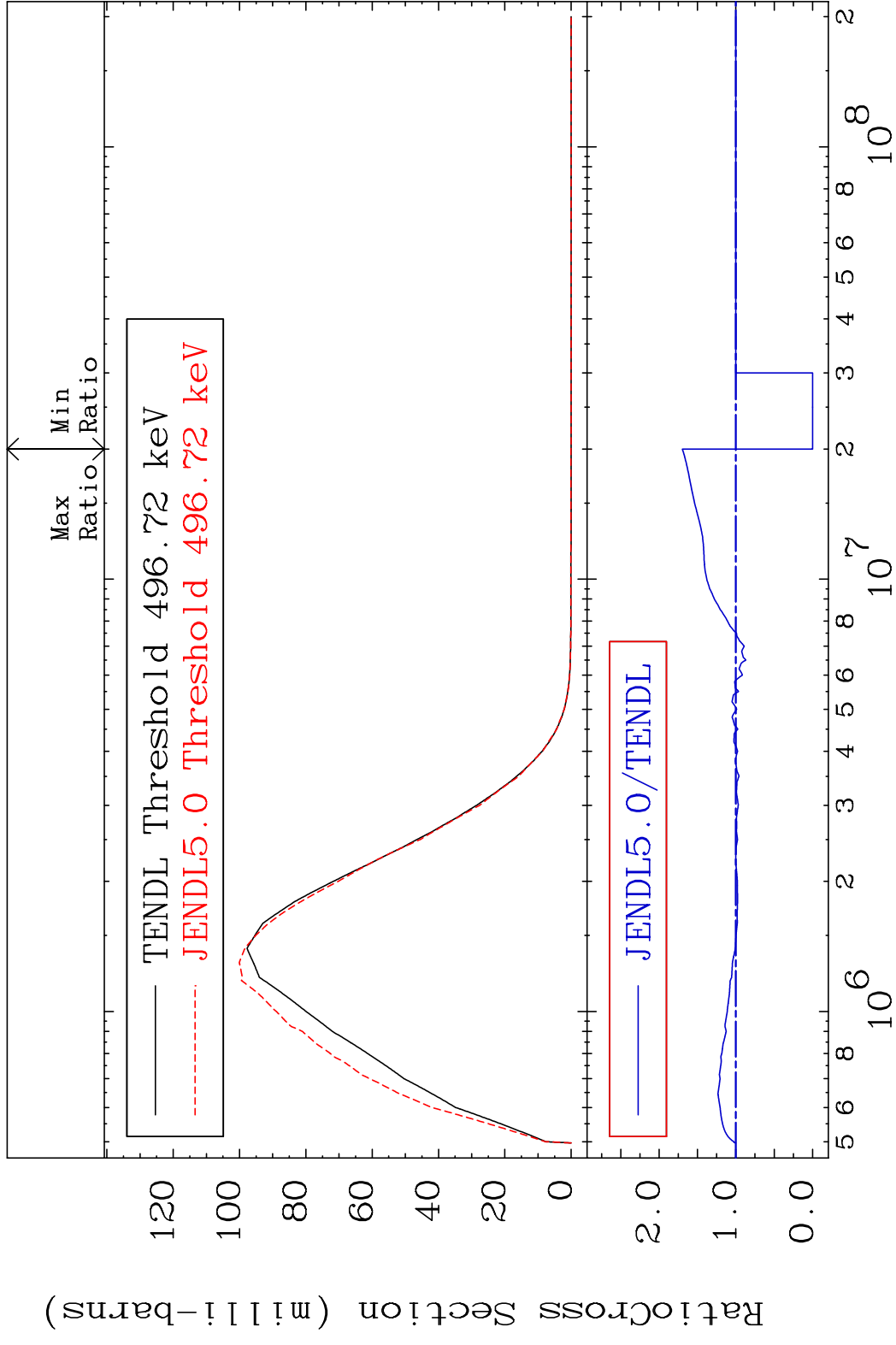


12 Incident Energy (eV) 57-La-137

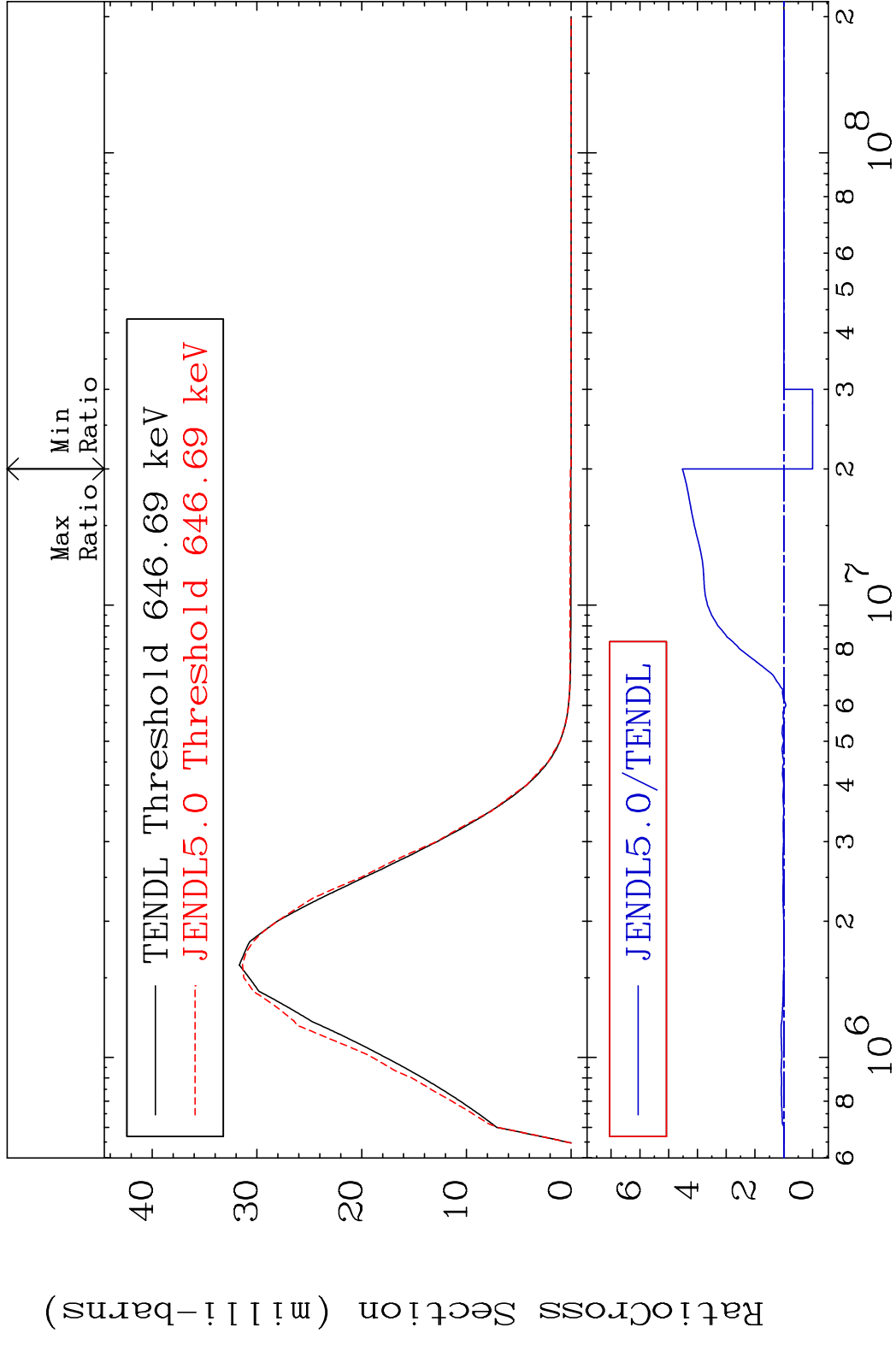
MAT 5722 MT= 52 (n, n') Level 57-La-137
 Cross Section -100.0 To 164.5 %



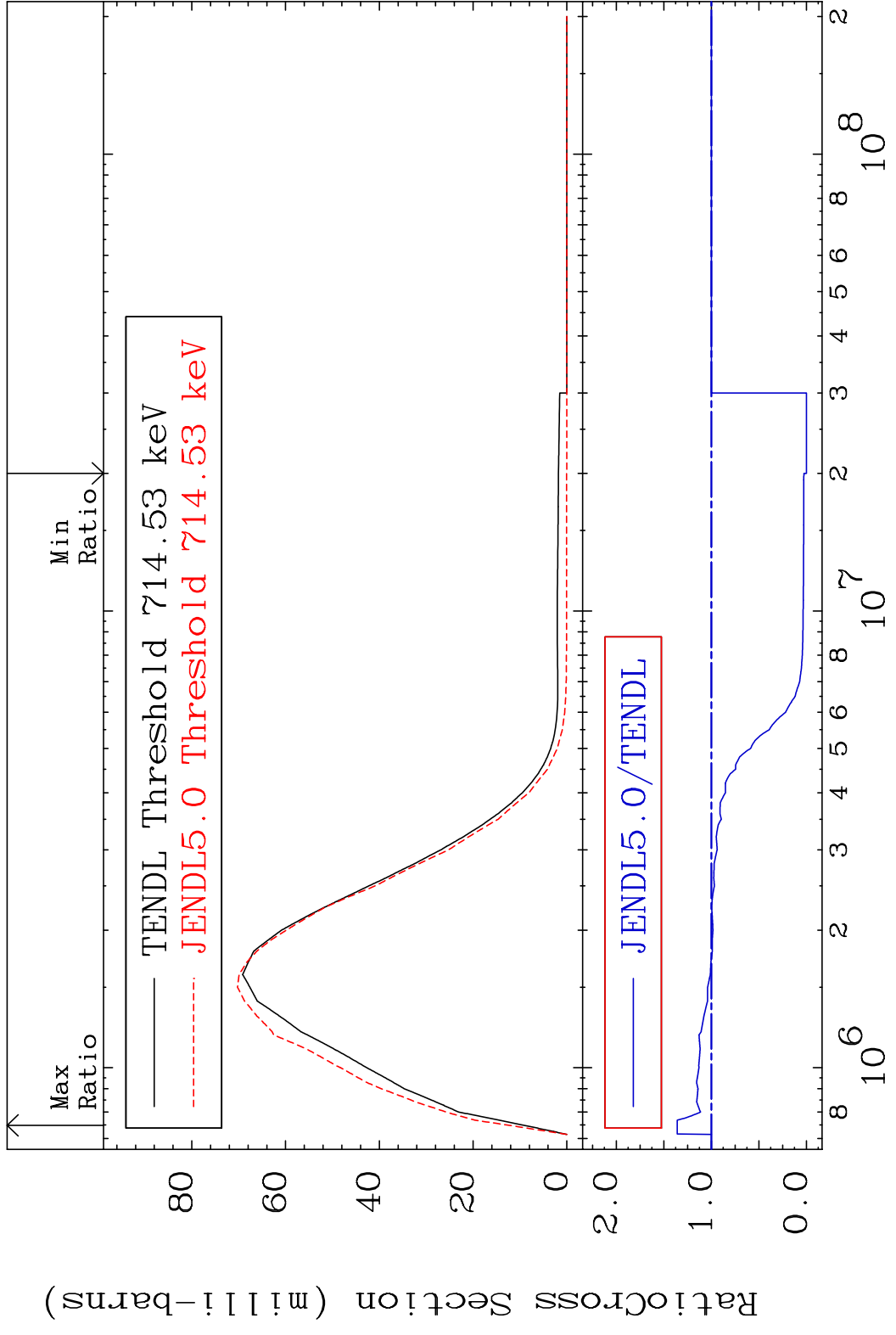
MAT 5722 MT= 53 (n, n') Level 57-La-137
 Cross Section -100.0 To 69.71 %



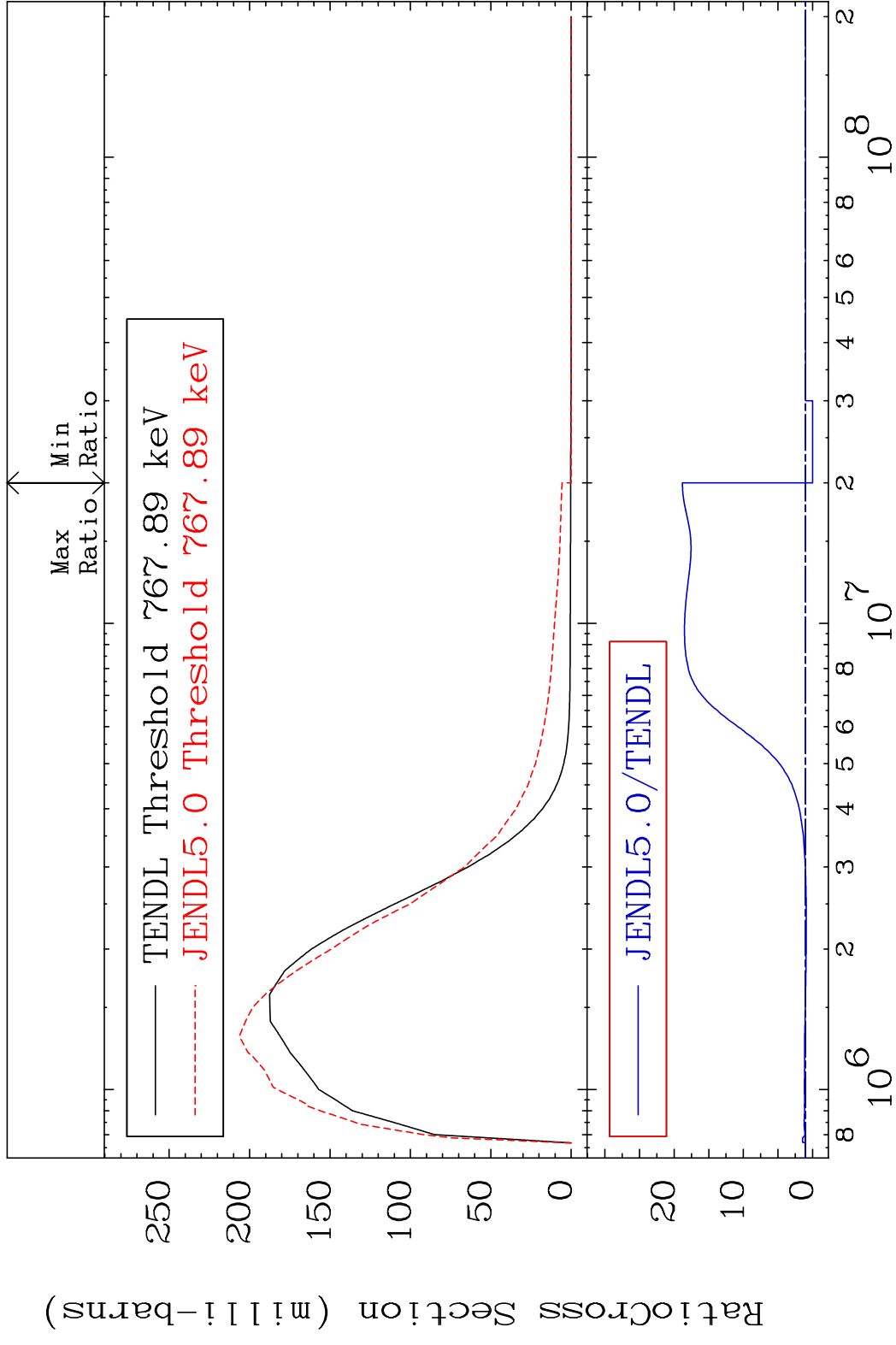
MAT 5722 MT= 54 (n, n') Level 57-La-137
 Cross Section -100.0 To 352.5 %



MAT 5722 MT= 55 (n, n') Level 57-La-137
 Cross Section -100.0 To 35.94 %

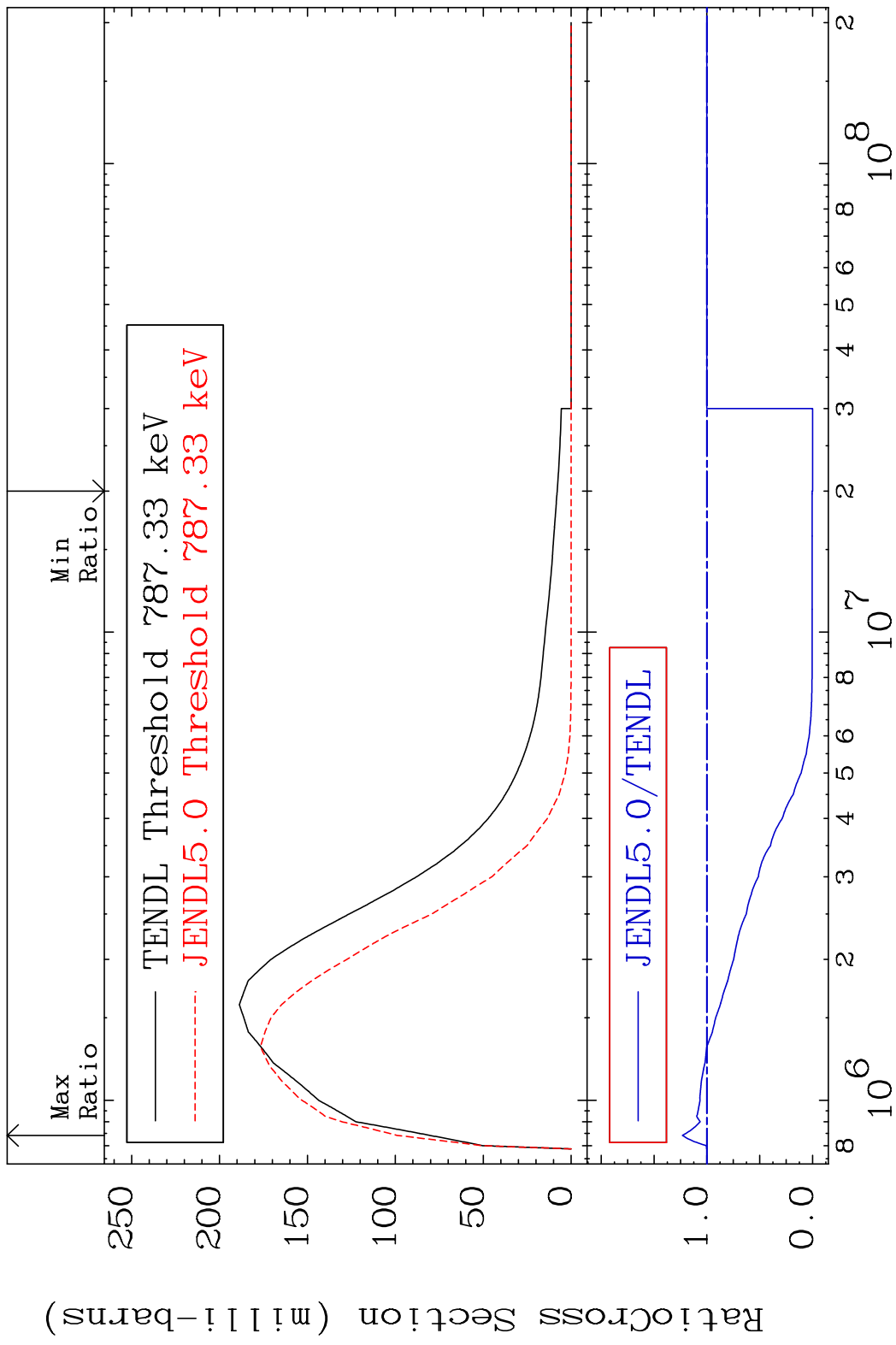


MAT 5722 MT= 56 (n, n') Level 57-La-137
 Cross Section -100.0 To 1781. %



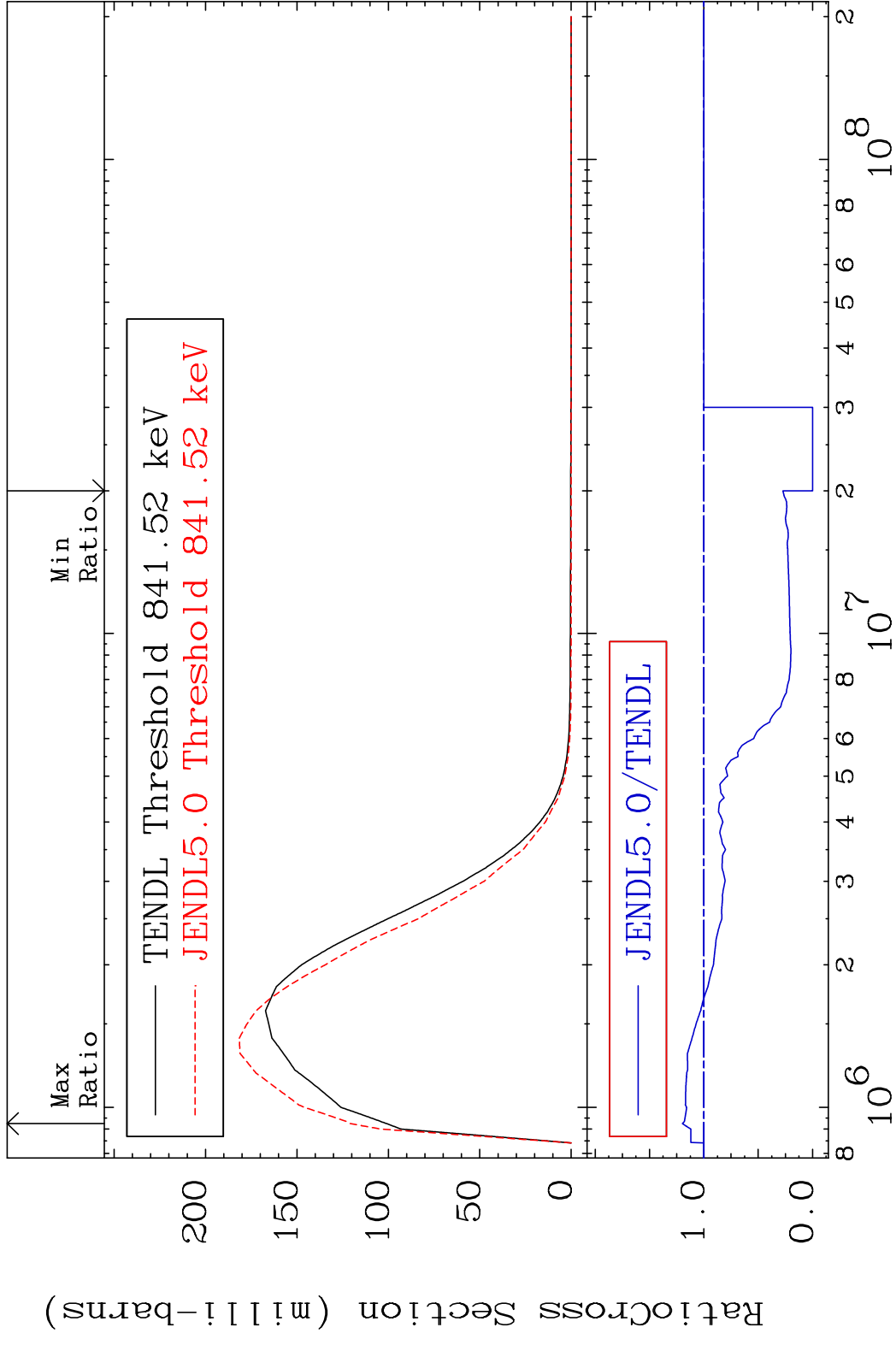
17 1781. % 57-La-137

MAT 5722 MT= 57 (n, n') Level 57-La-137
 Cross Section -100.0 To 23.23 %



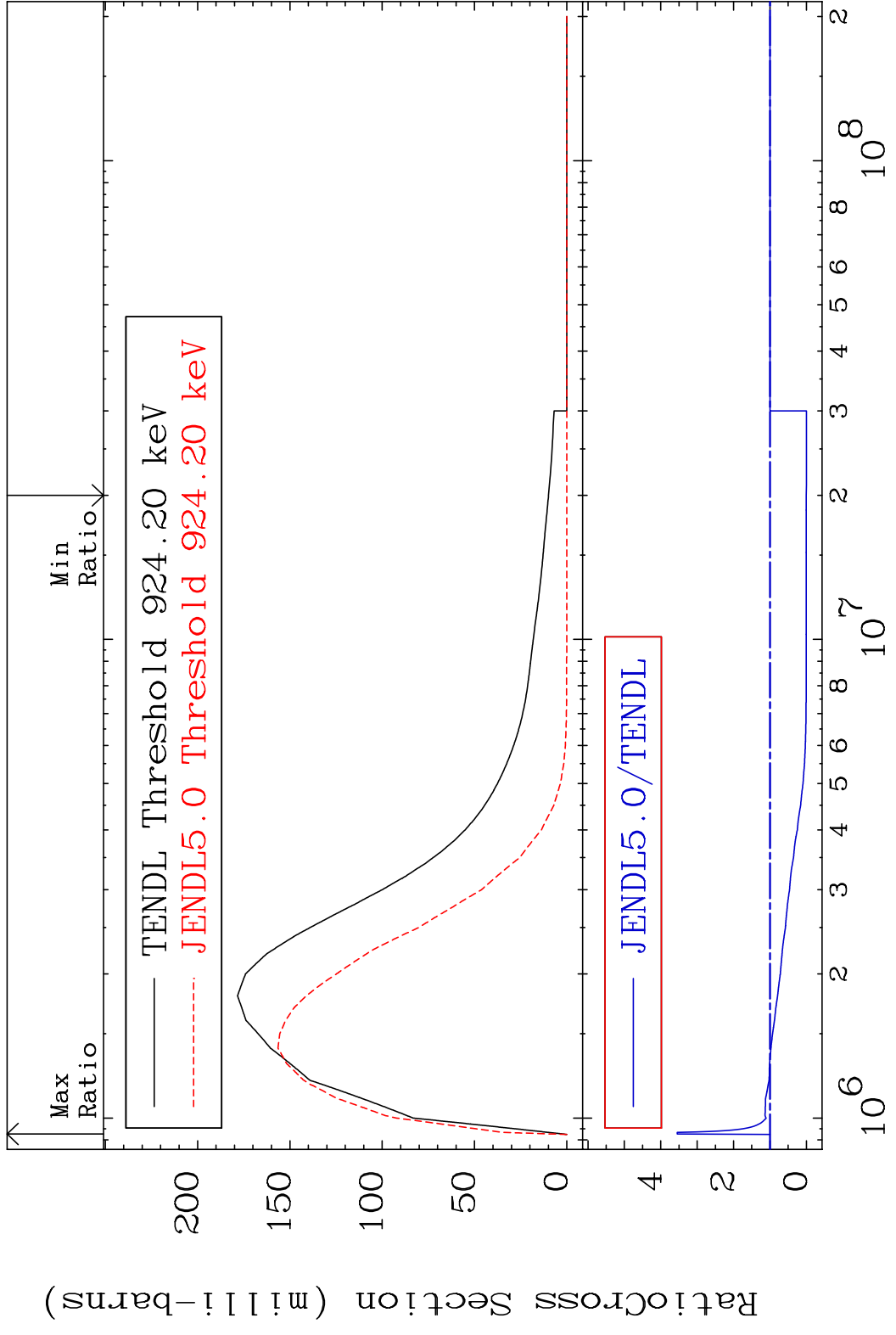
18 18 Incident Energy (eV) 57-La-137

MAT 5722 MT= 58 (n, n') Level 57-La-137
 Cross Section -100.0 To 19.79 %



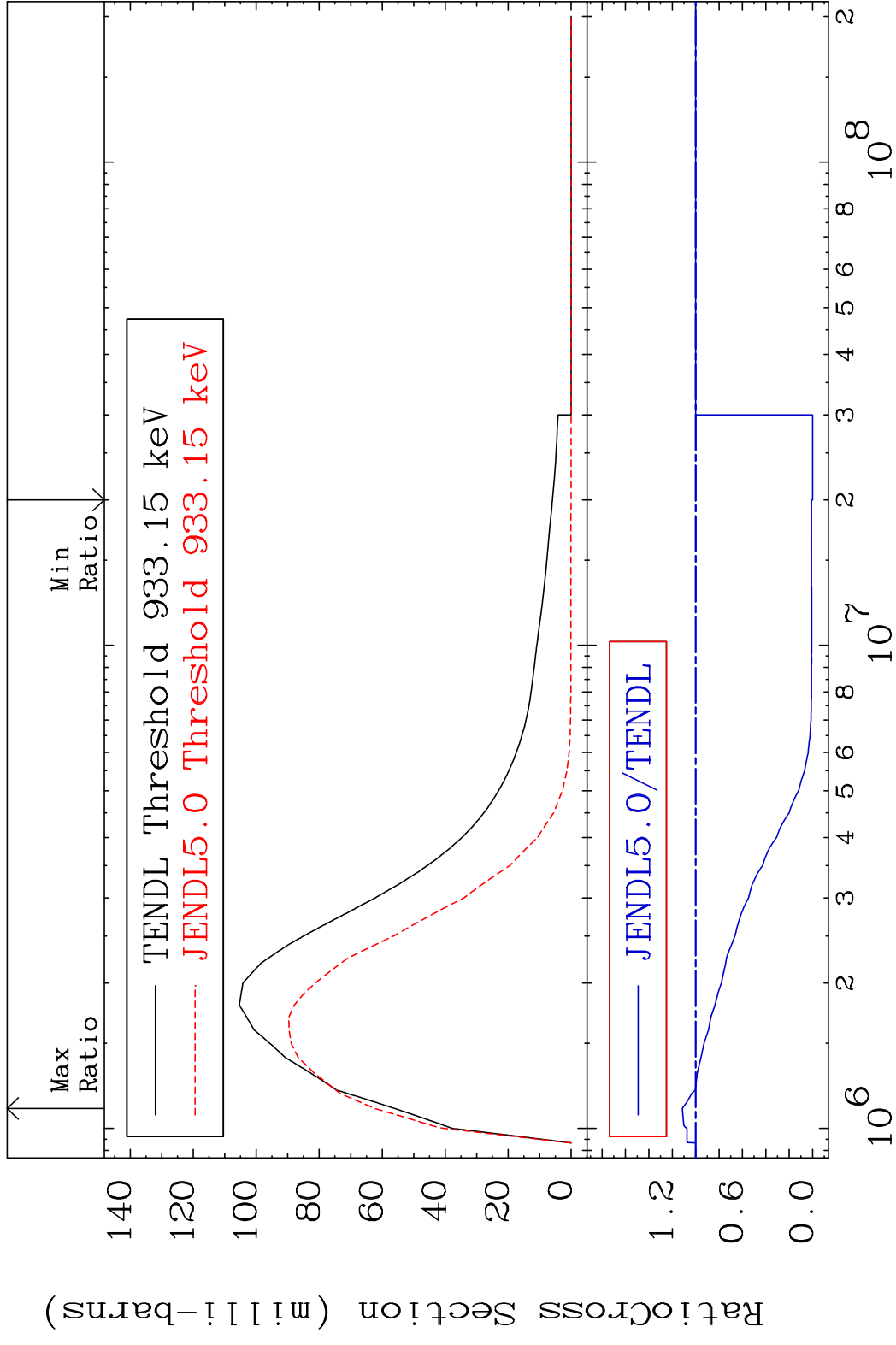
19 19 Incident Energy (eV) 57-La-137

MAT 5722 MT= 59 (n, n') Level 57-La-137
 Cross Section -100.0 To 254.9 %

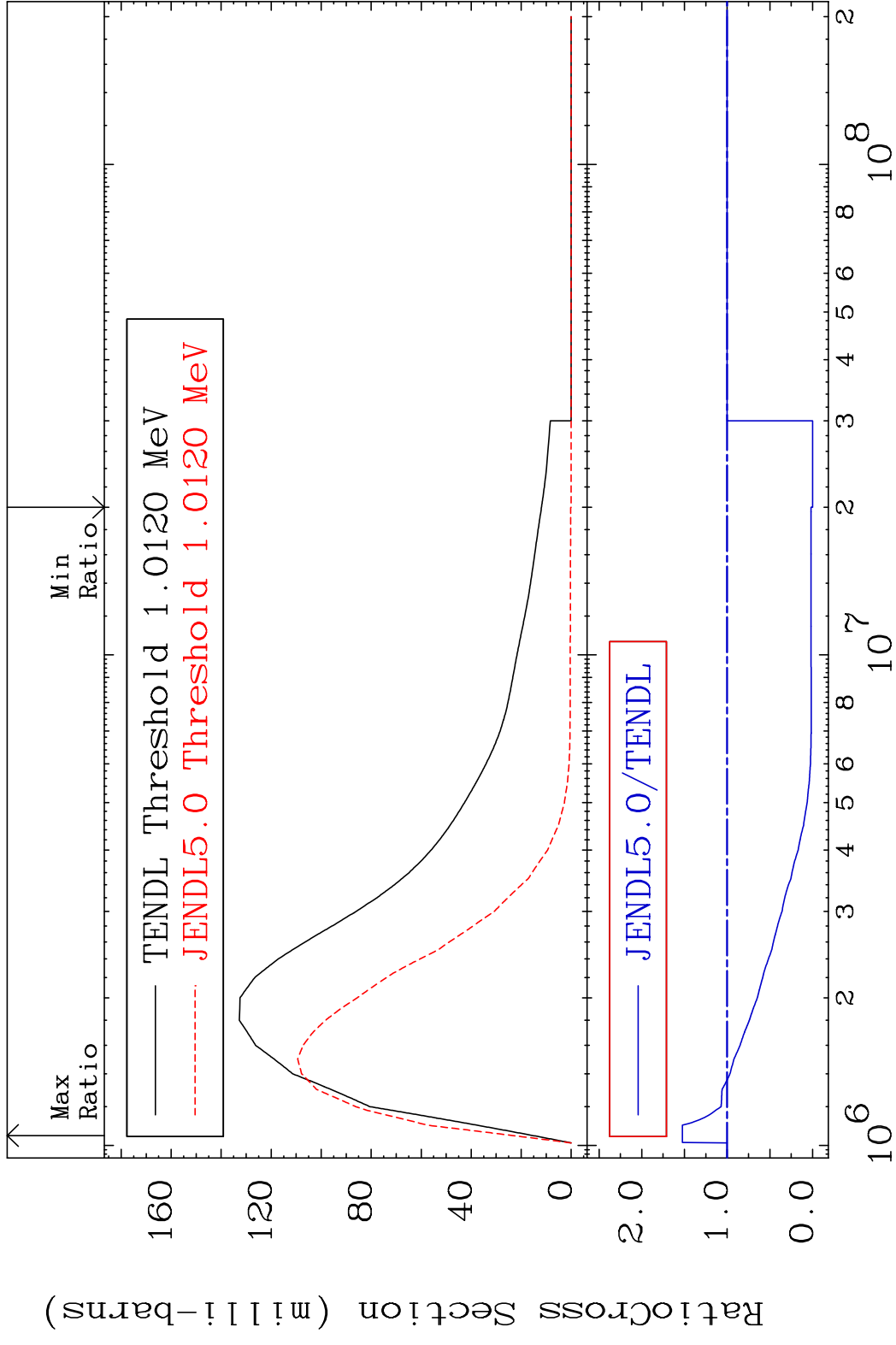


20 10⁶ 2 3 4 5 6 8 10⁷ 2 3 4 5 6 8 10⁸ 57-La-137

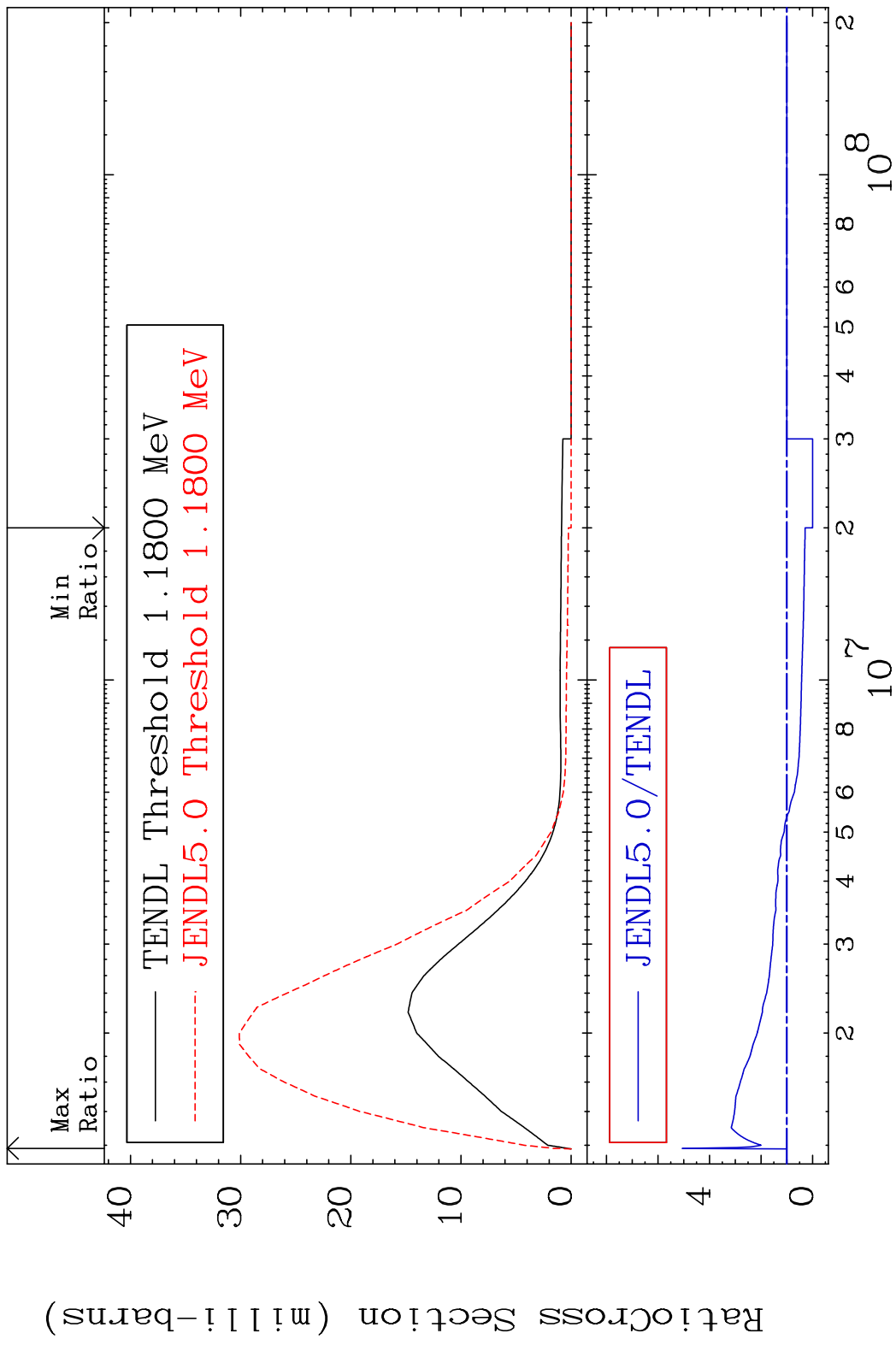
MAT 5722 MT= 60 (n, n') Level 57-La-137
 Cross Section -100.0 To 11.36 %



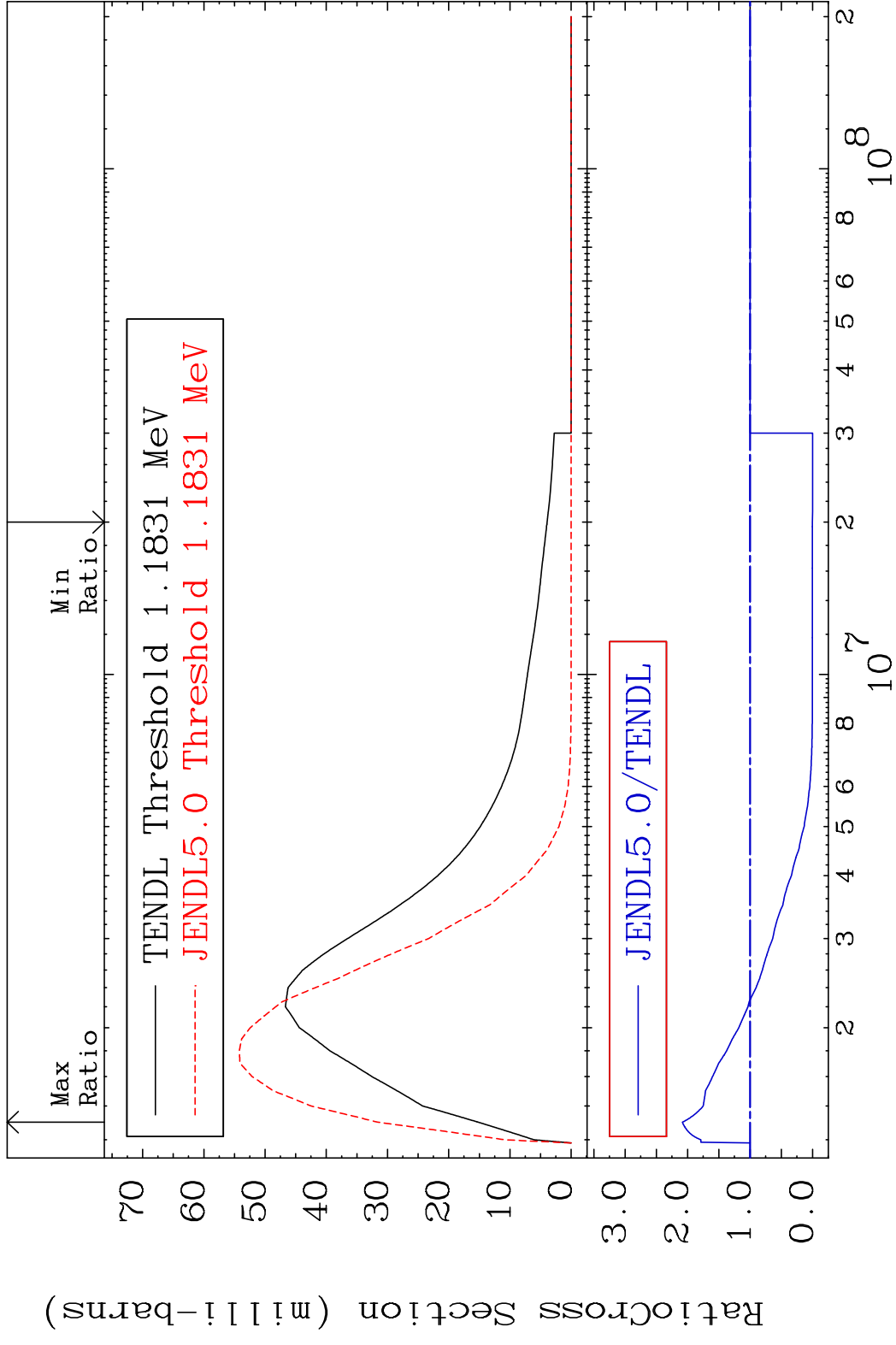
MAT 5722 MT= 61 (n, n') Level 57-La-137
 Cross Section -100.0 To 52.47 %



MAT 5722 MT= 62 (n, n') Level 57-La-137
 Cross Section -100.0 To 405.2 %



MAT 5722 MT= 63 (n, n') Level 57-La-137
 Cross Section -100.0 To 108.3 %

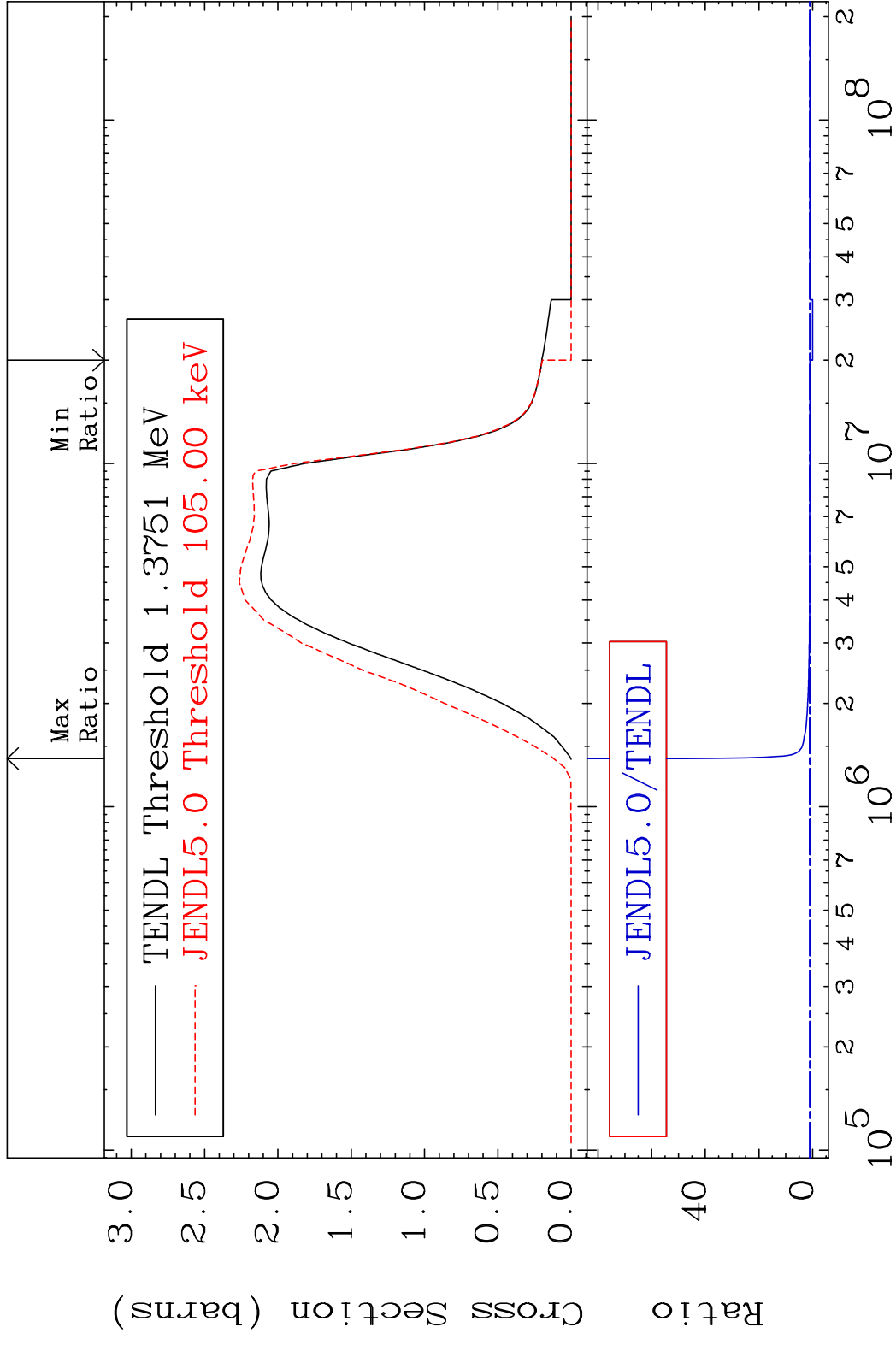


MAT 5722

(n, n') Continuum

57-La-137

Cross Section -100.0 To 4756. %



25

Incident Energy (eV)

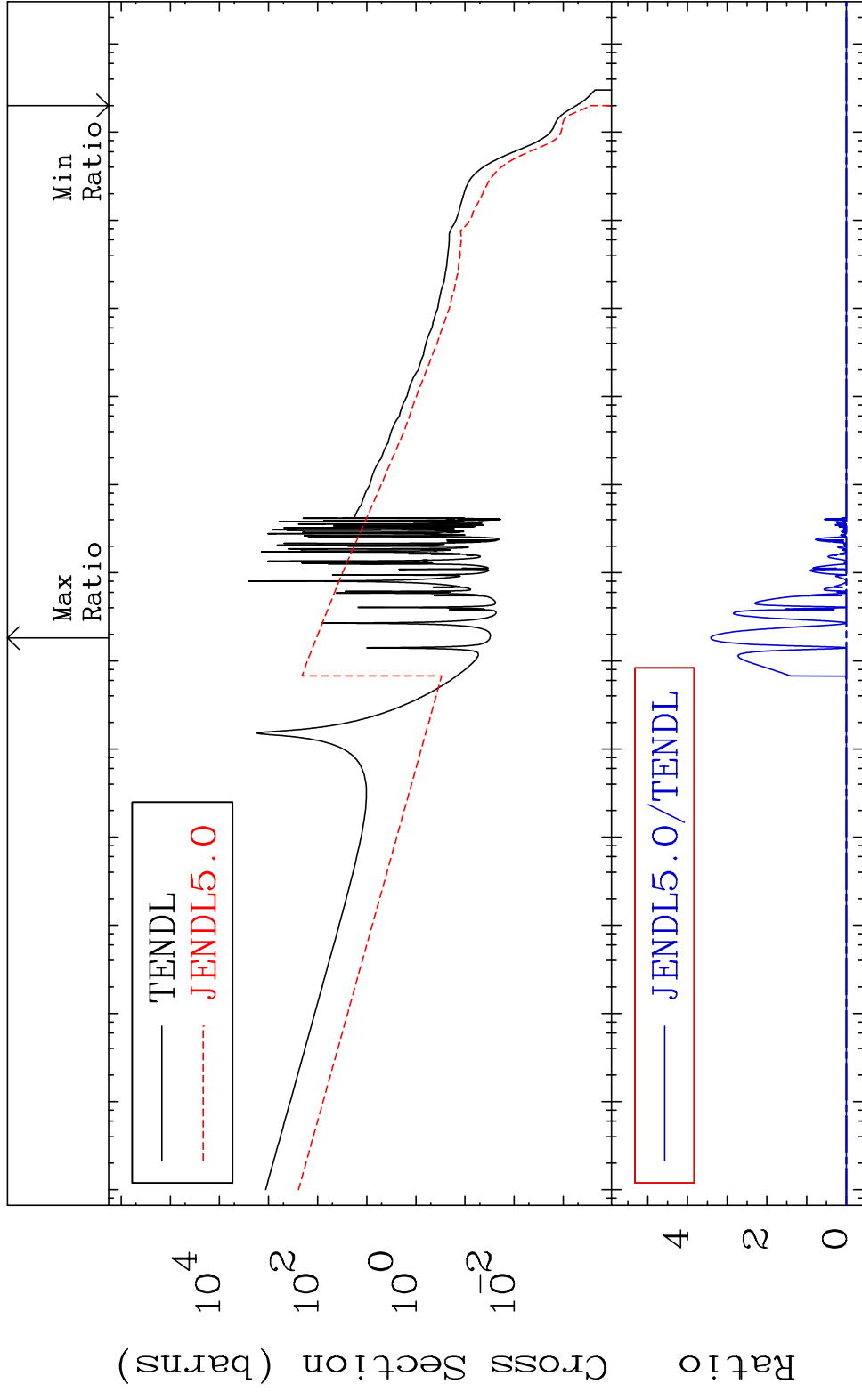
57-La-137

MAT 5722

57-La-137

(n, γ)

Cross Section -100.0 To 9999. %

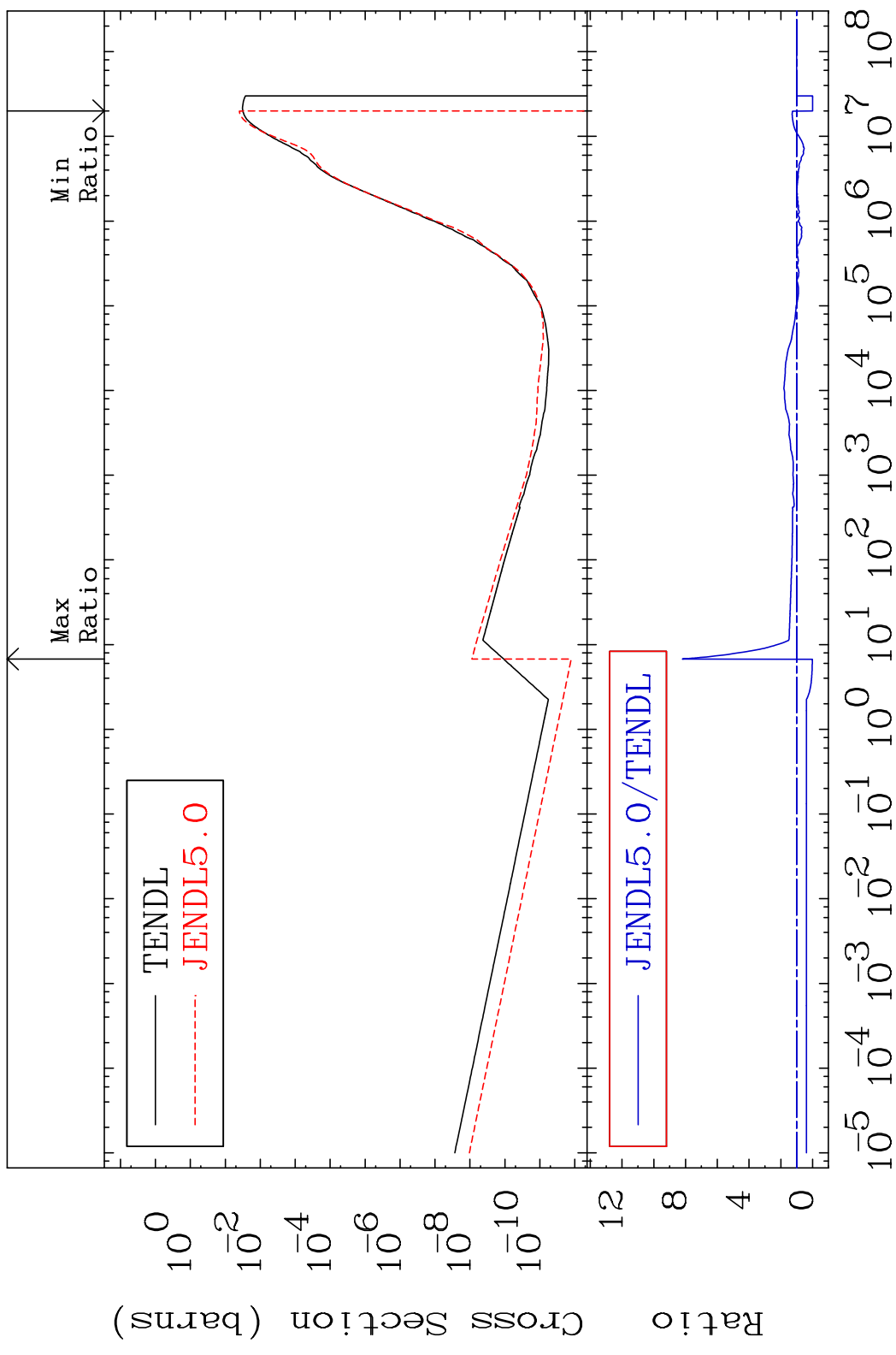


MAT 5722

(n, p)

57-La-137

Cross Section -100.0 To 720.1 %

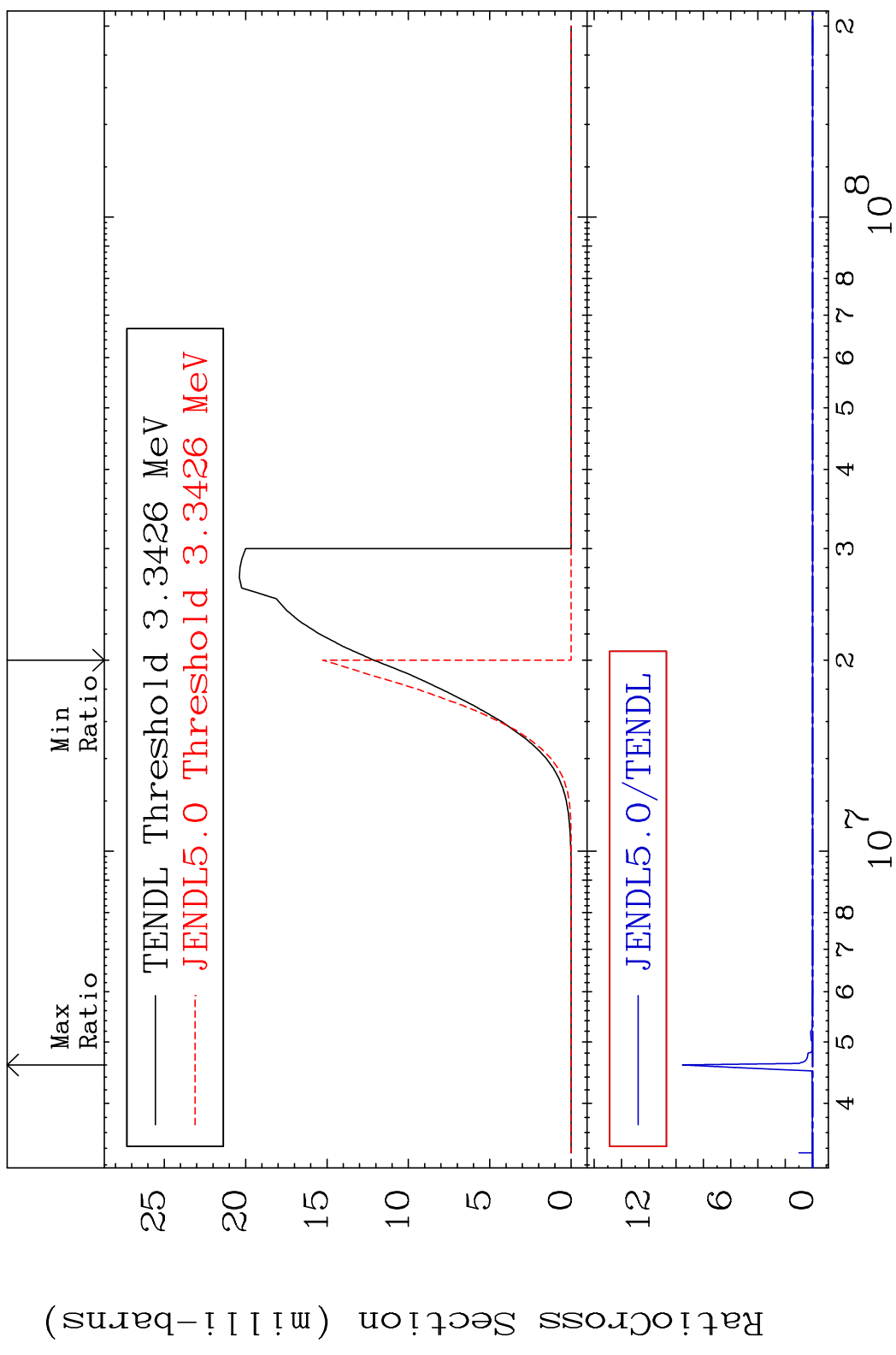


MAT 5722

(n,d)

57-La-137

Cross Section -100.0 To 9999. %

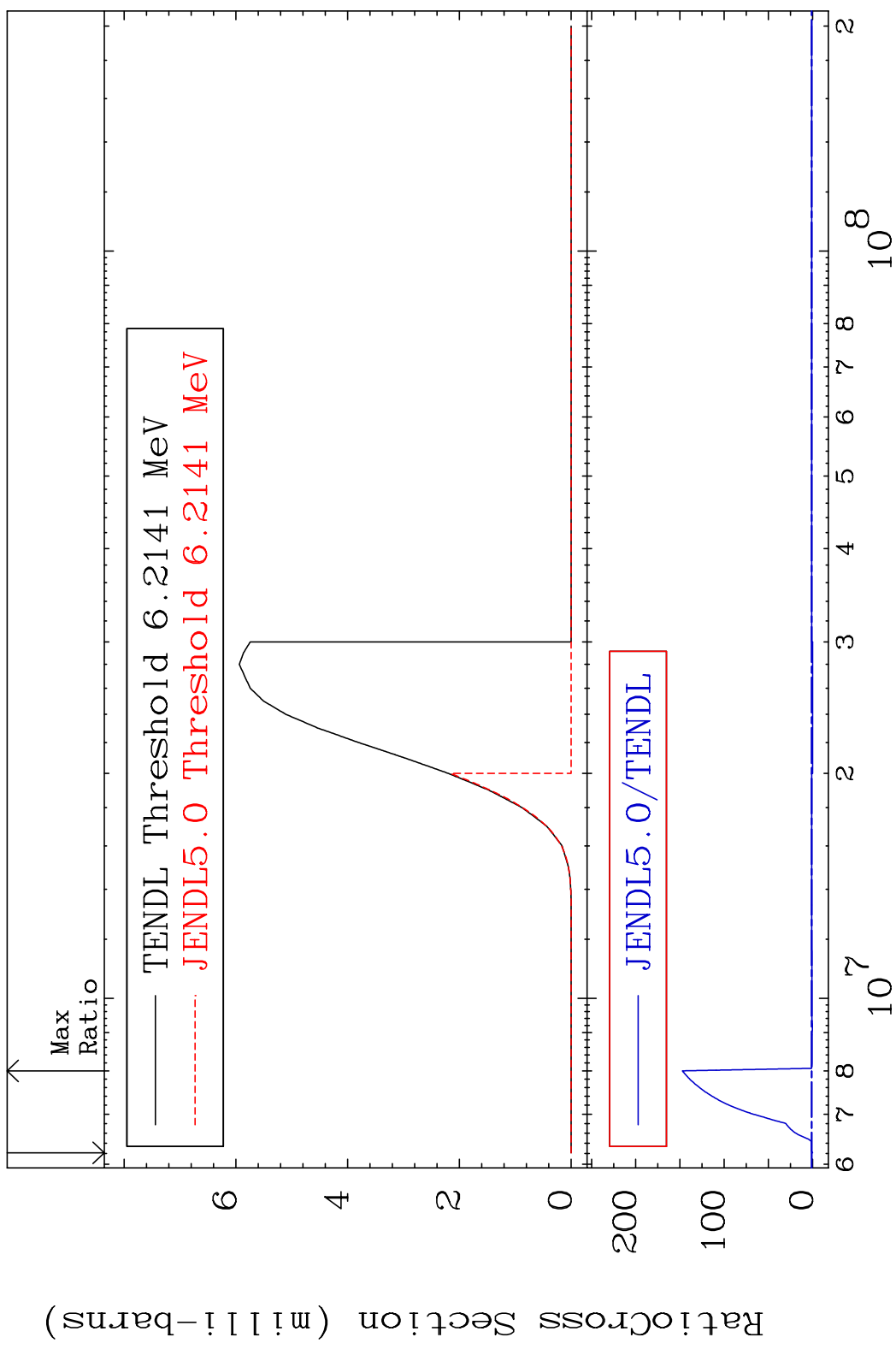


MAT 5722

(n, t)

57-La-137

Cross Section -100.0 To 9999. %

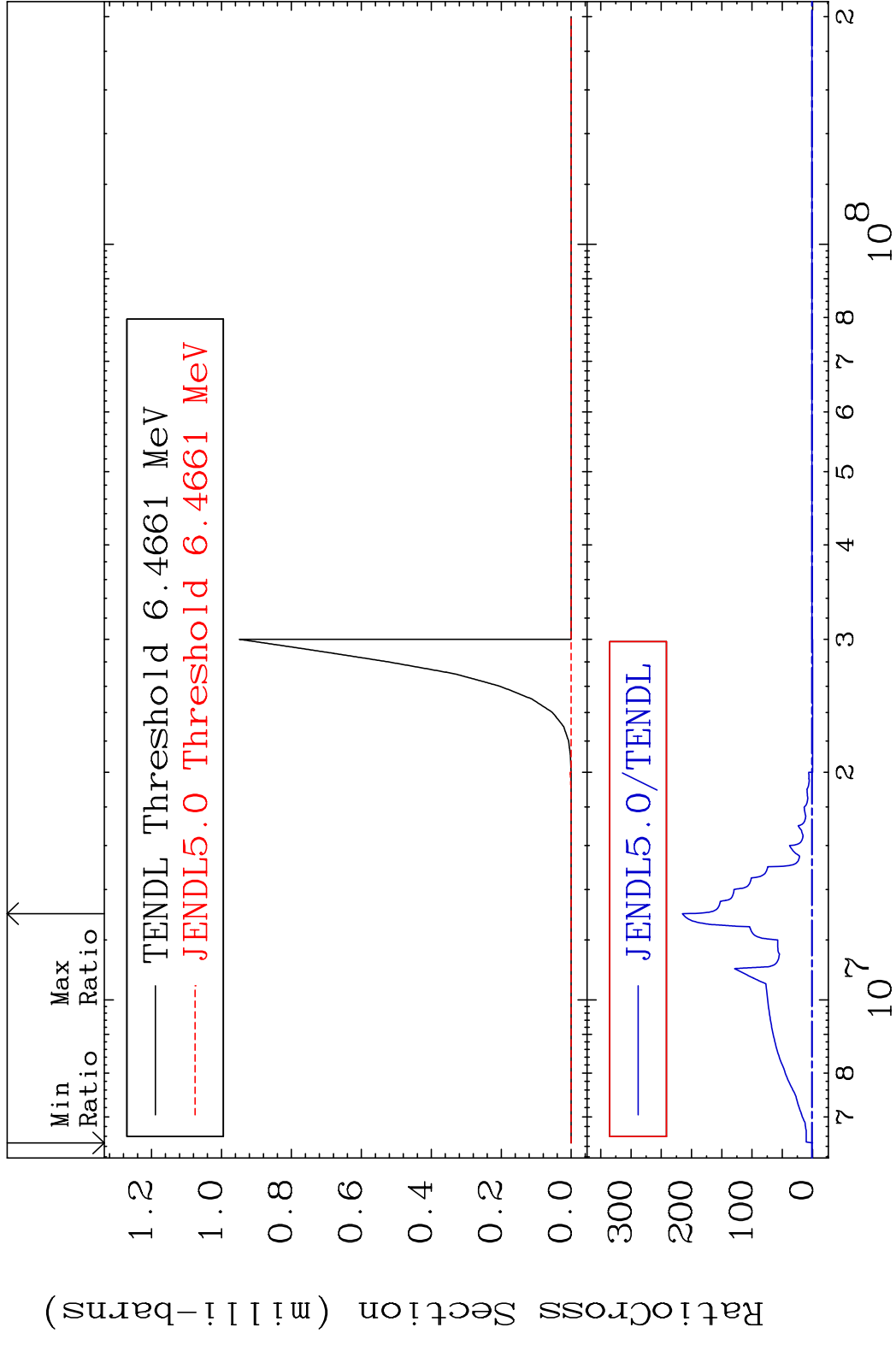


29

Incident Energy (eV)

57-La-137

Cross Section -100.0 To 9999. %

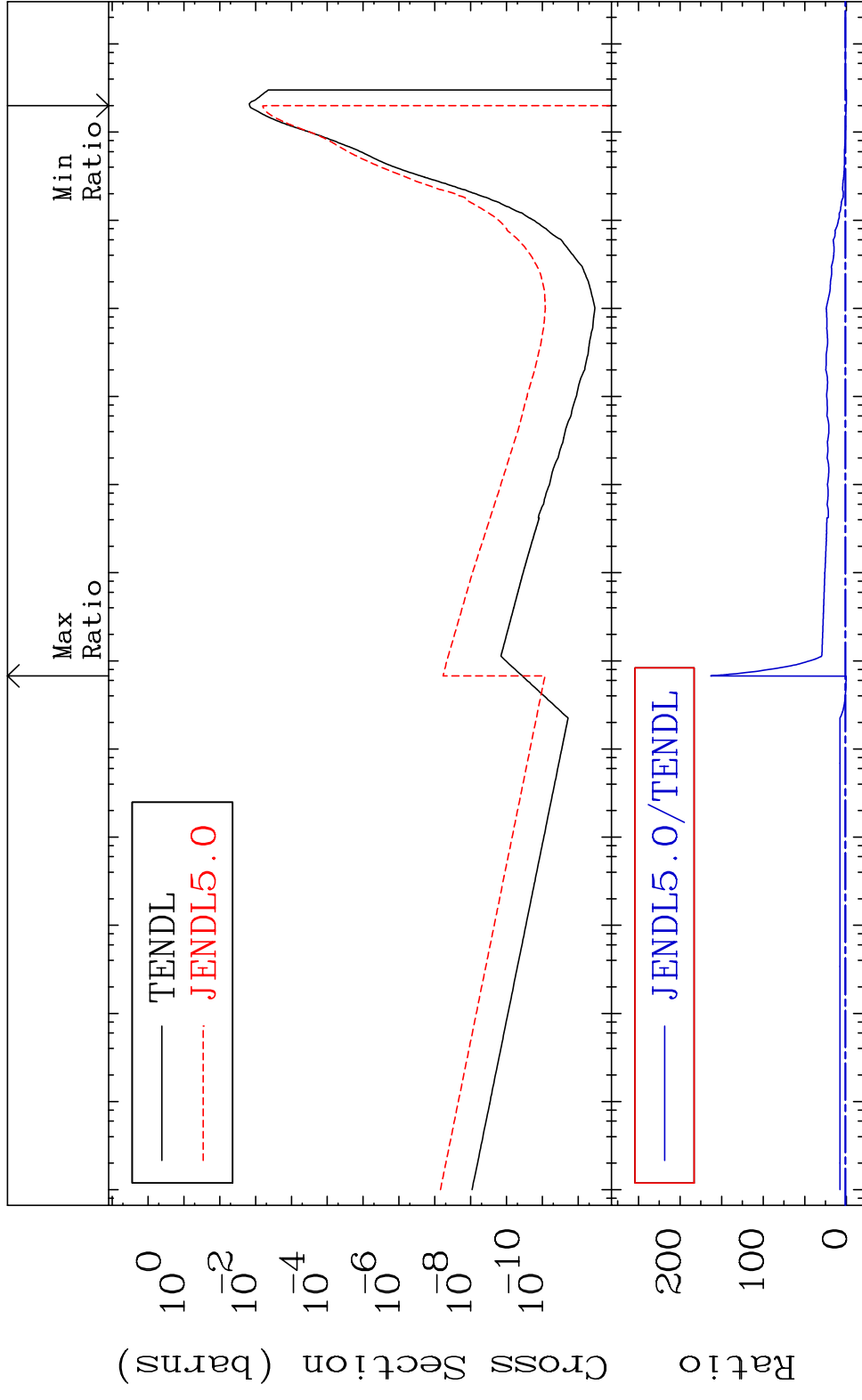


MAT 5722

(n, α)

57-La-137

Cross Section -100.0 To 9999. %

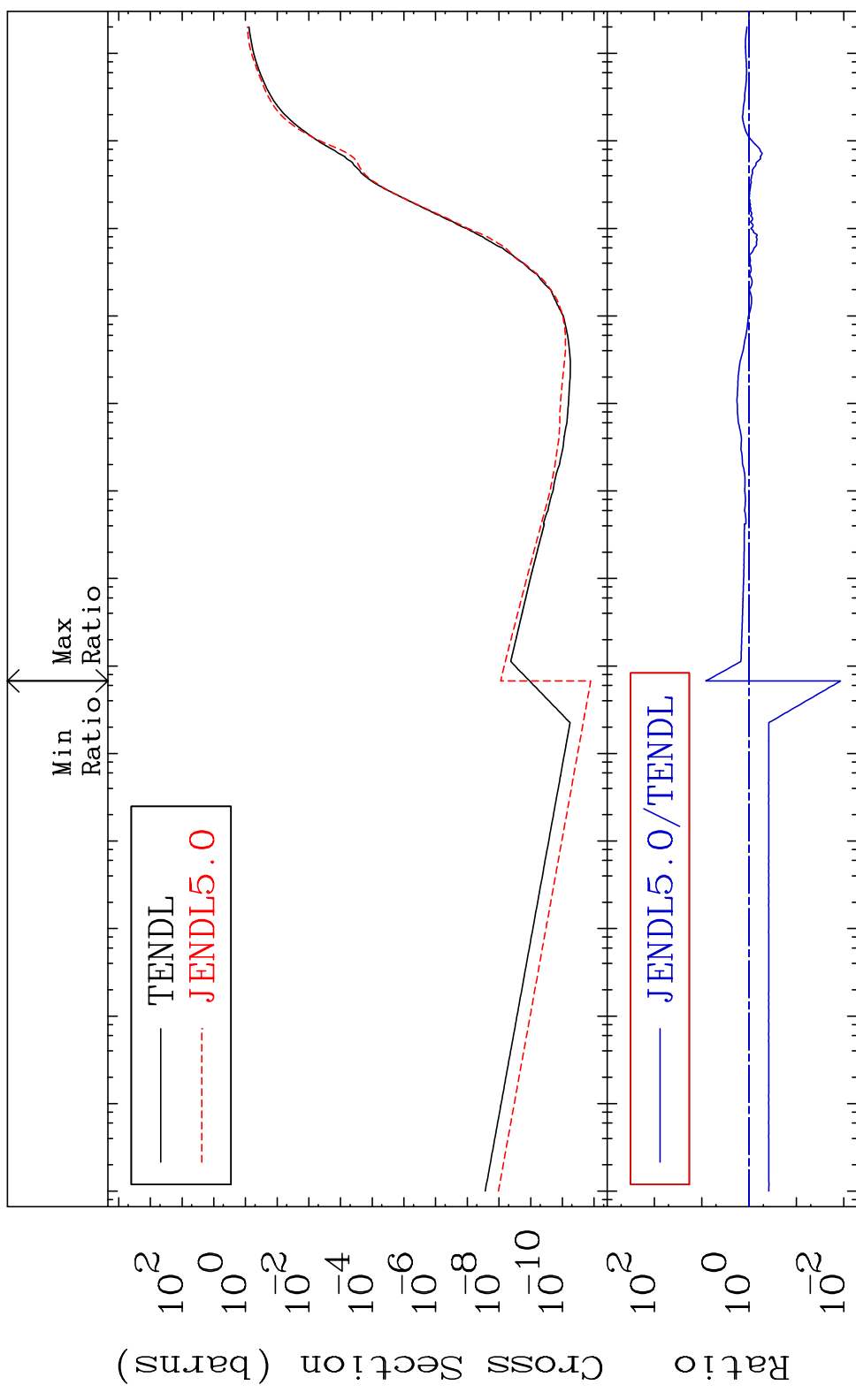


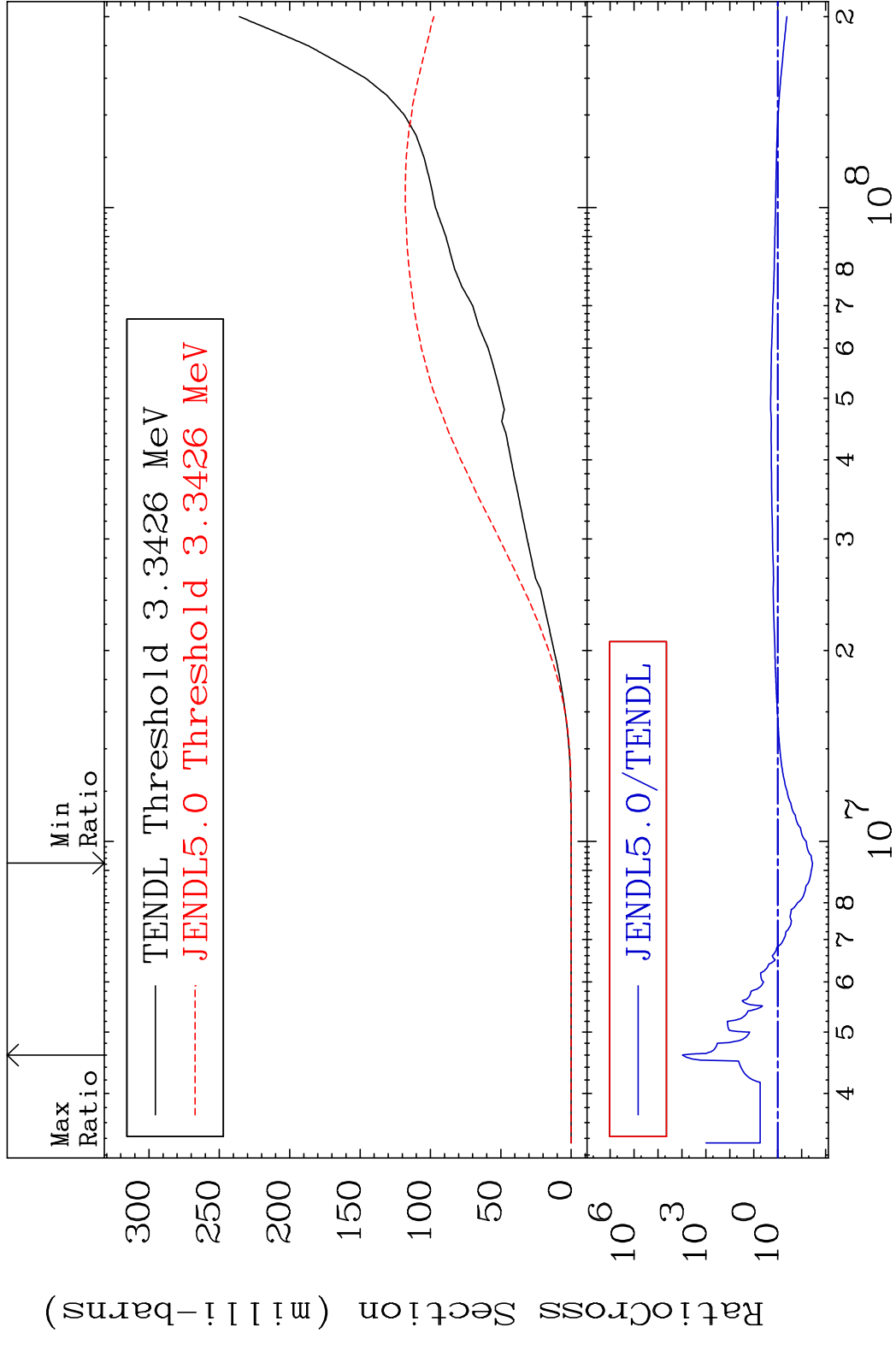
MAT 5722

Hydrogen Production

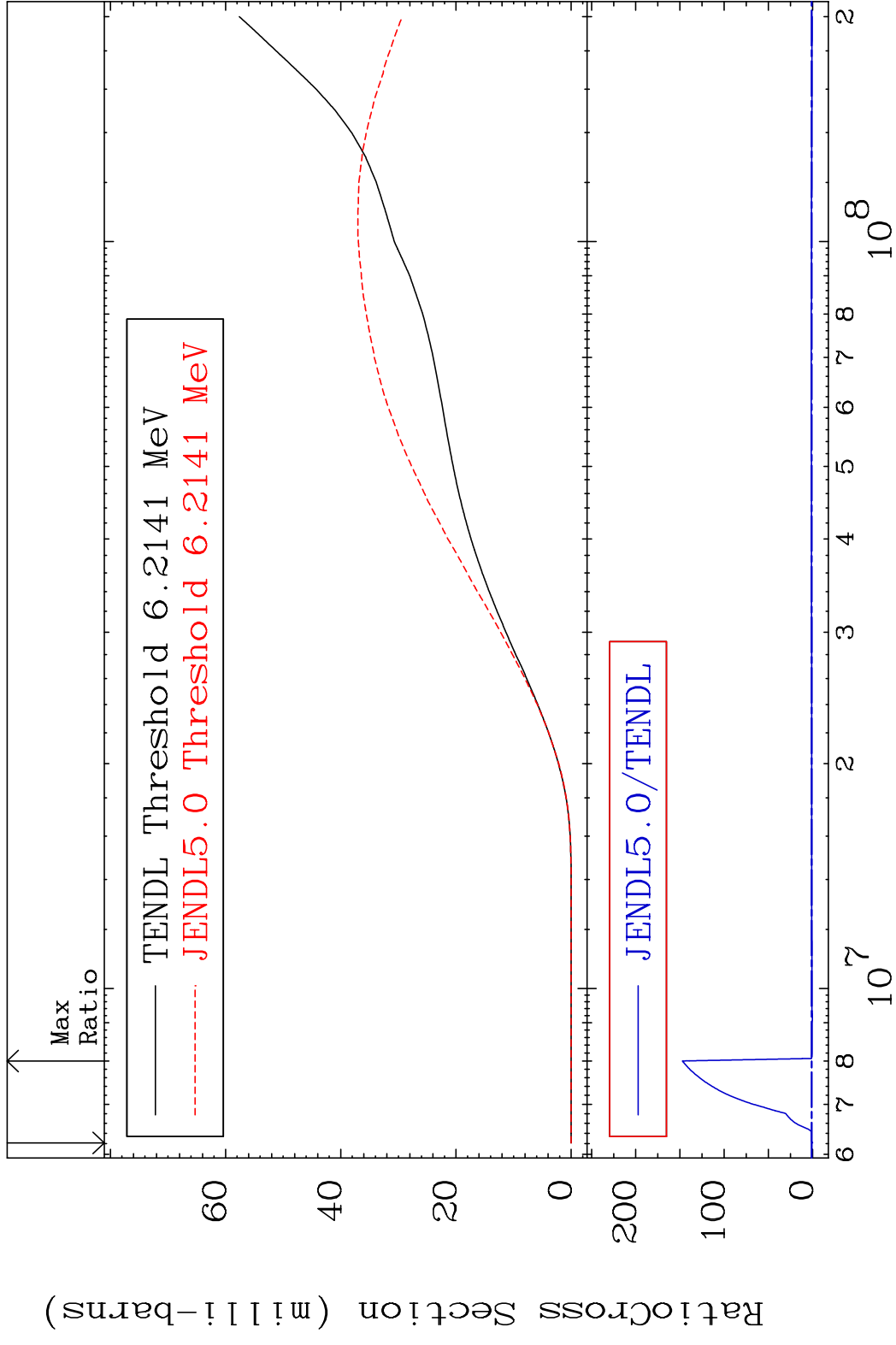
57-La-137

Cross Section -98.82 To 720.1 %





MAT 5722 Tritium Production 57-La-137
 Cross Section -100.0 To 9999. %

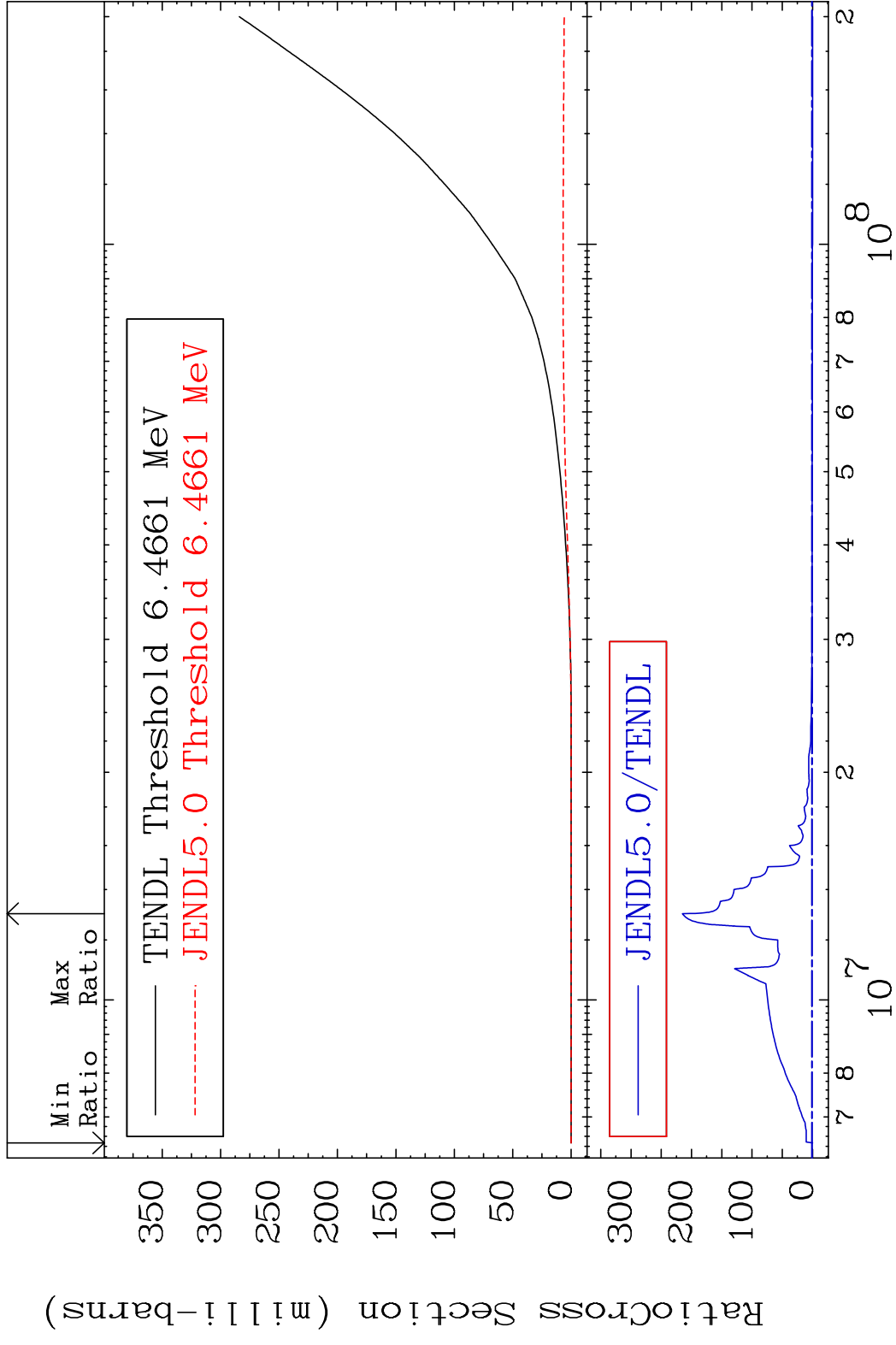


MAT 5722

He-3 Production

57-La-137

Cross Section -100.0 To 9999. %

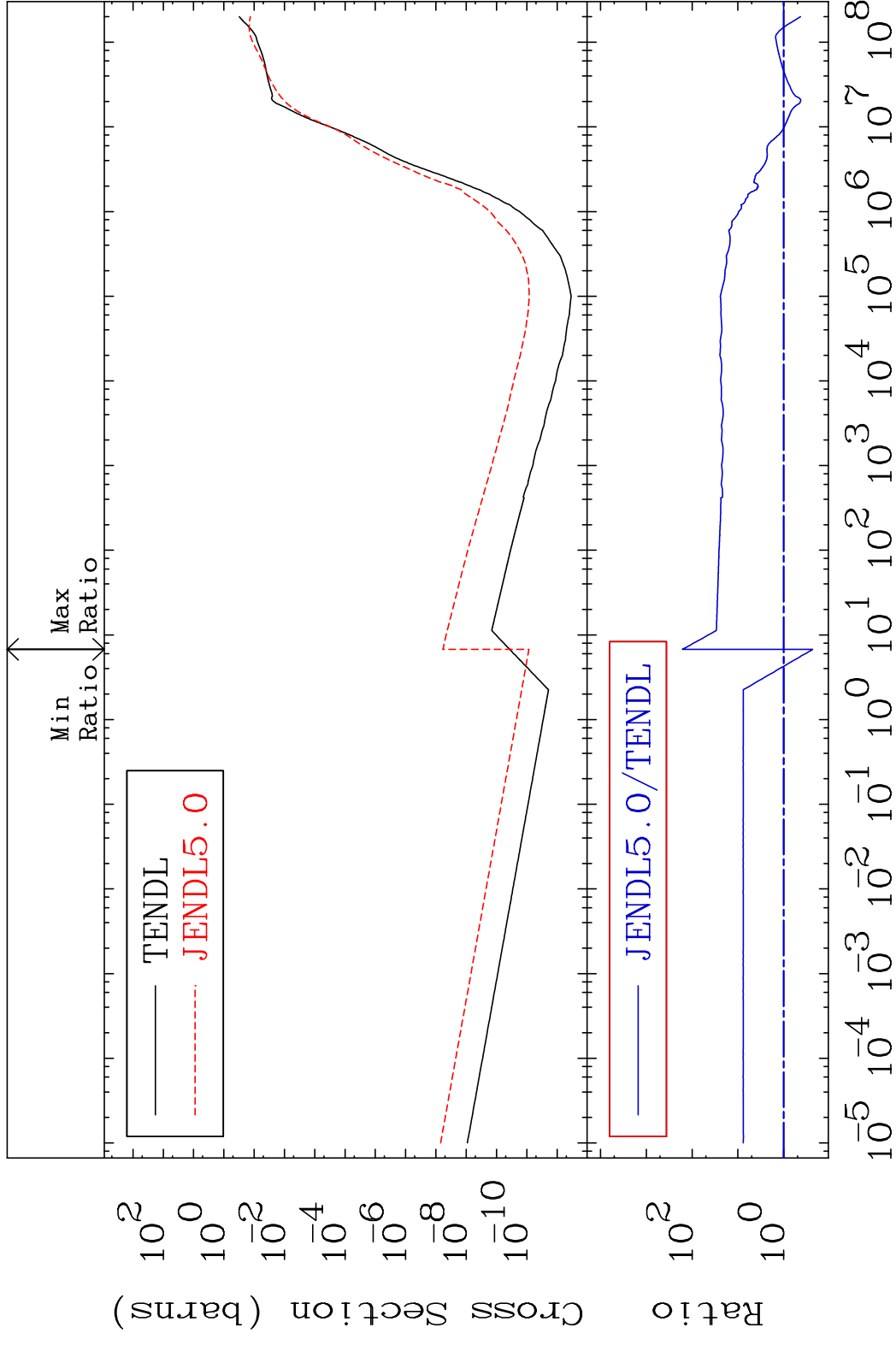


MAT 5722

He-4 Production

57-La-137

Cross Section -76.52 To 9999. %

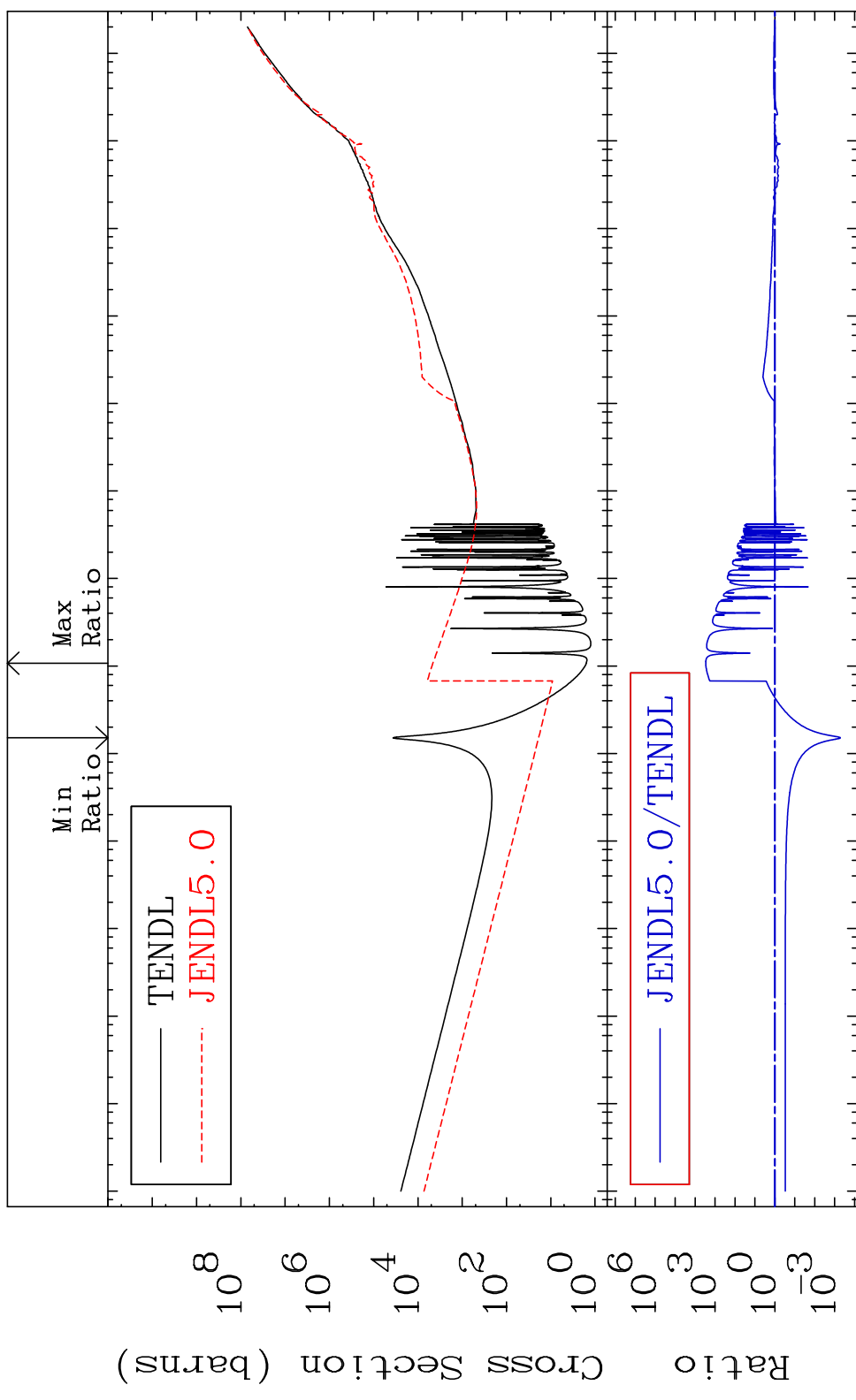


MAT 5722

Kerma total (eV-barns)

57-La-137

Cross Section -99.95 To 9999. %



Ratio
Cross Section (barns)
10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
10⁻⁸
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

37

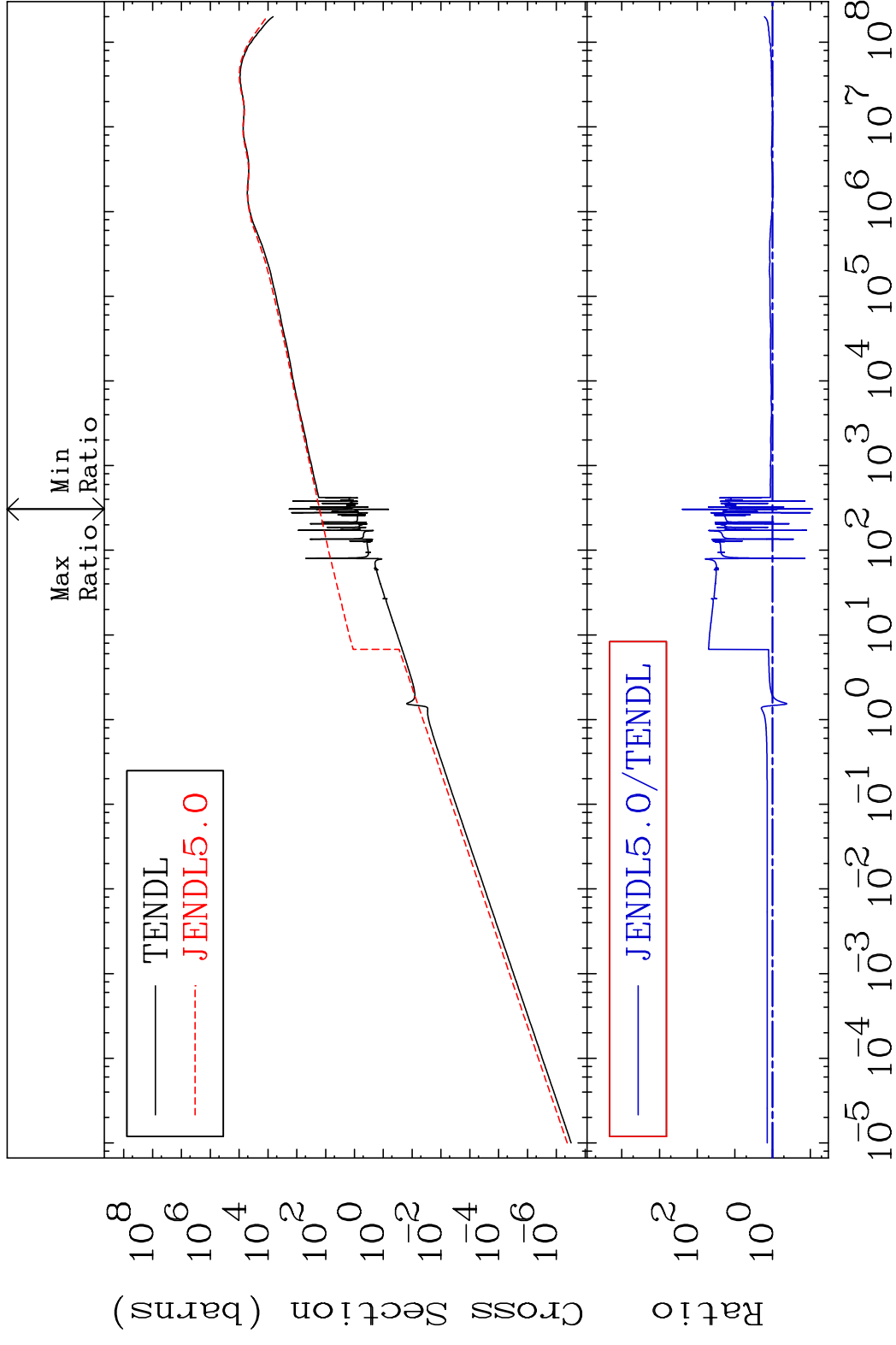
Incident Energy (eV)

57-La-137

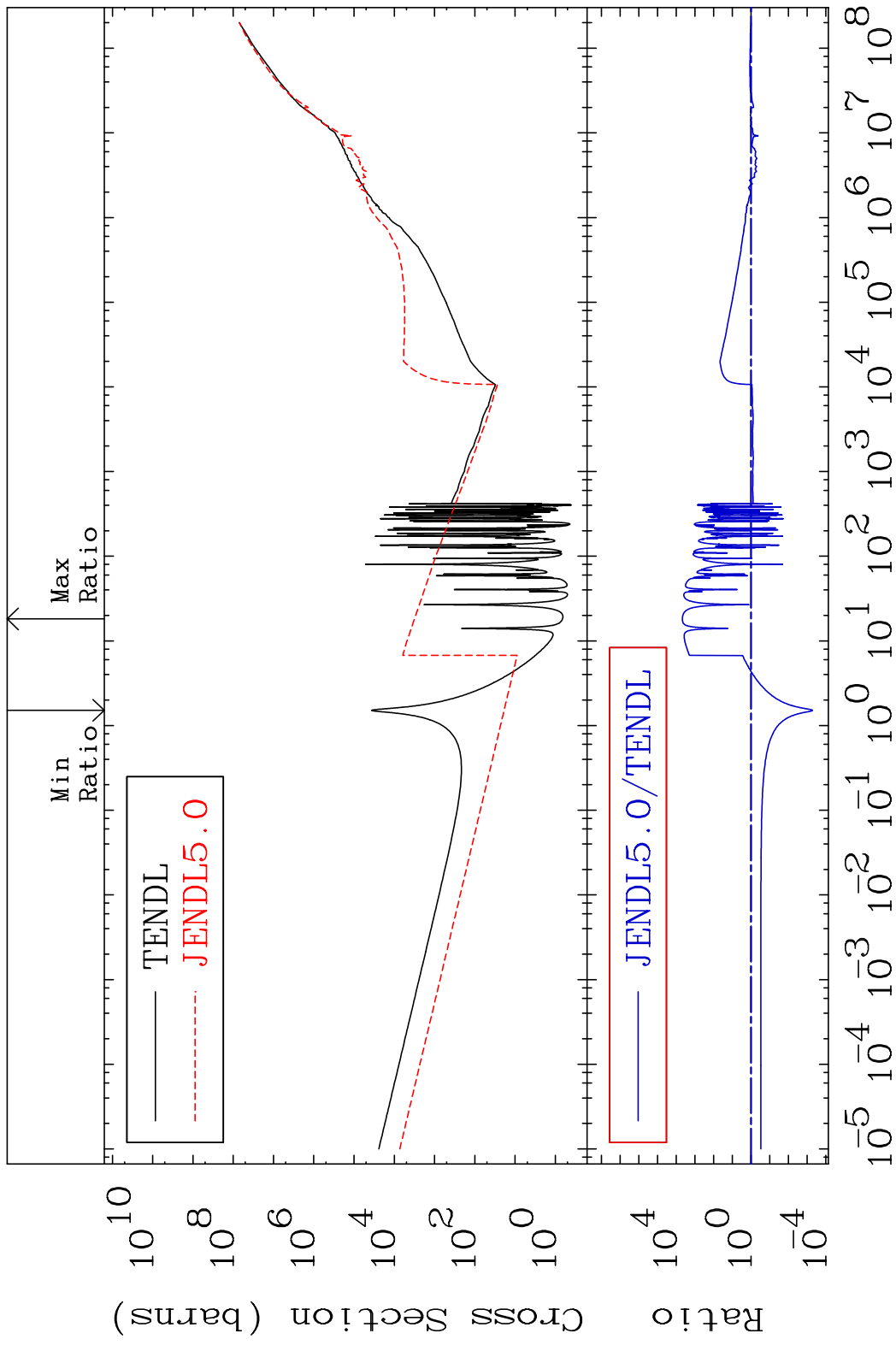
MAT 5722

Kerma elastic
Cross Section

57-La-137
-91.33 To 9999. %

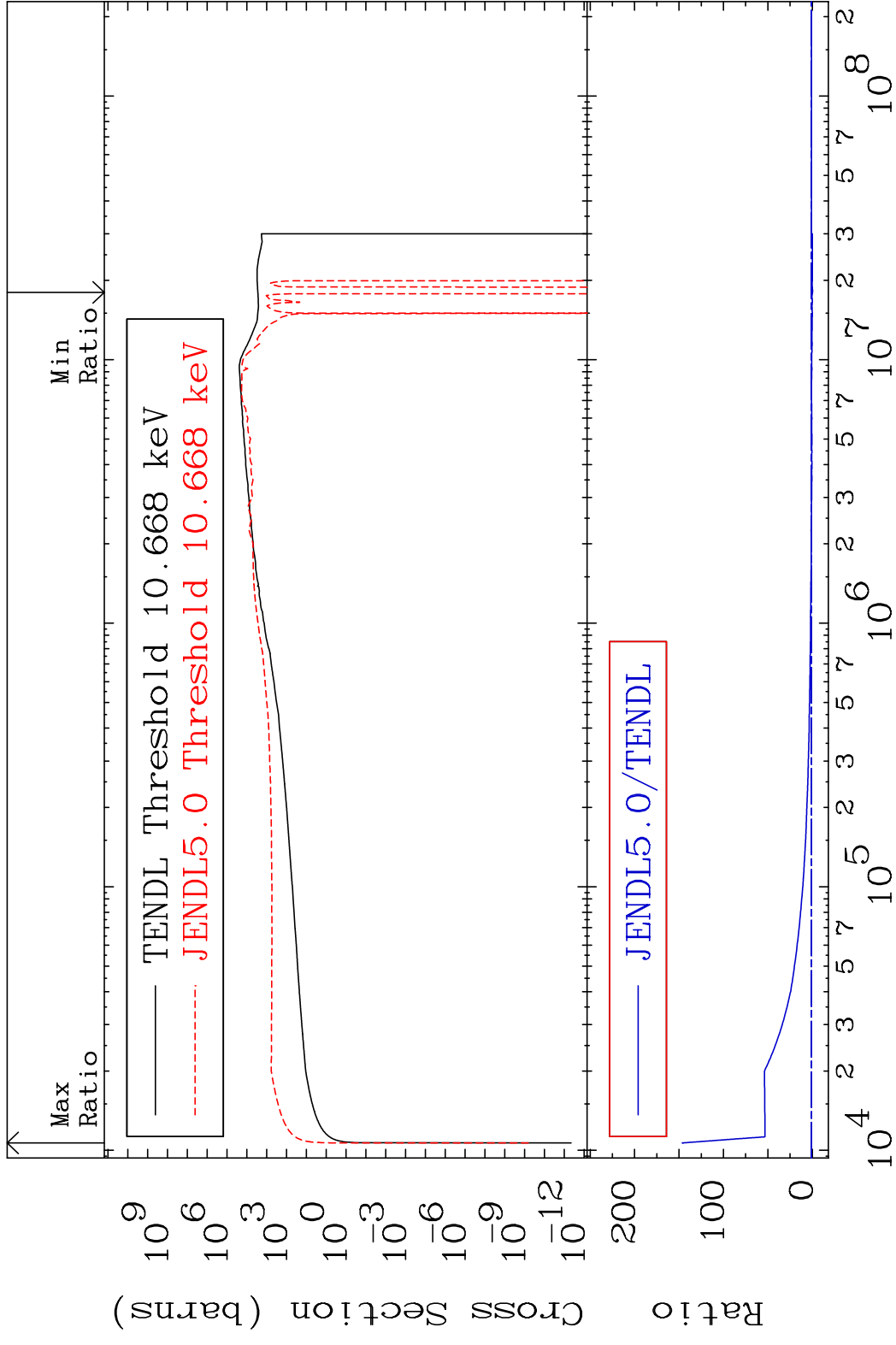


MAT 5722 Kerma non-elastic (all but mt2) 57-La-137
 Cross Section -99.95 To 9999. %



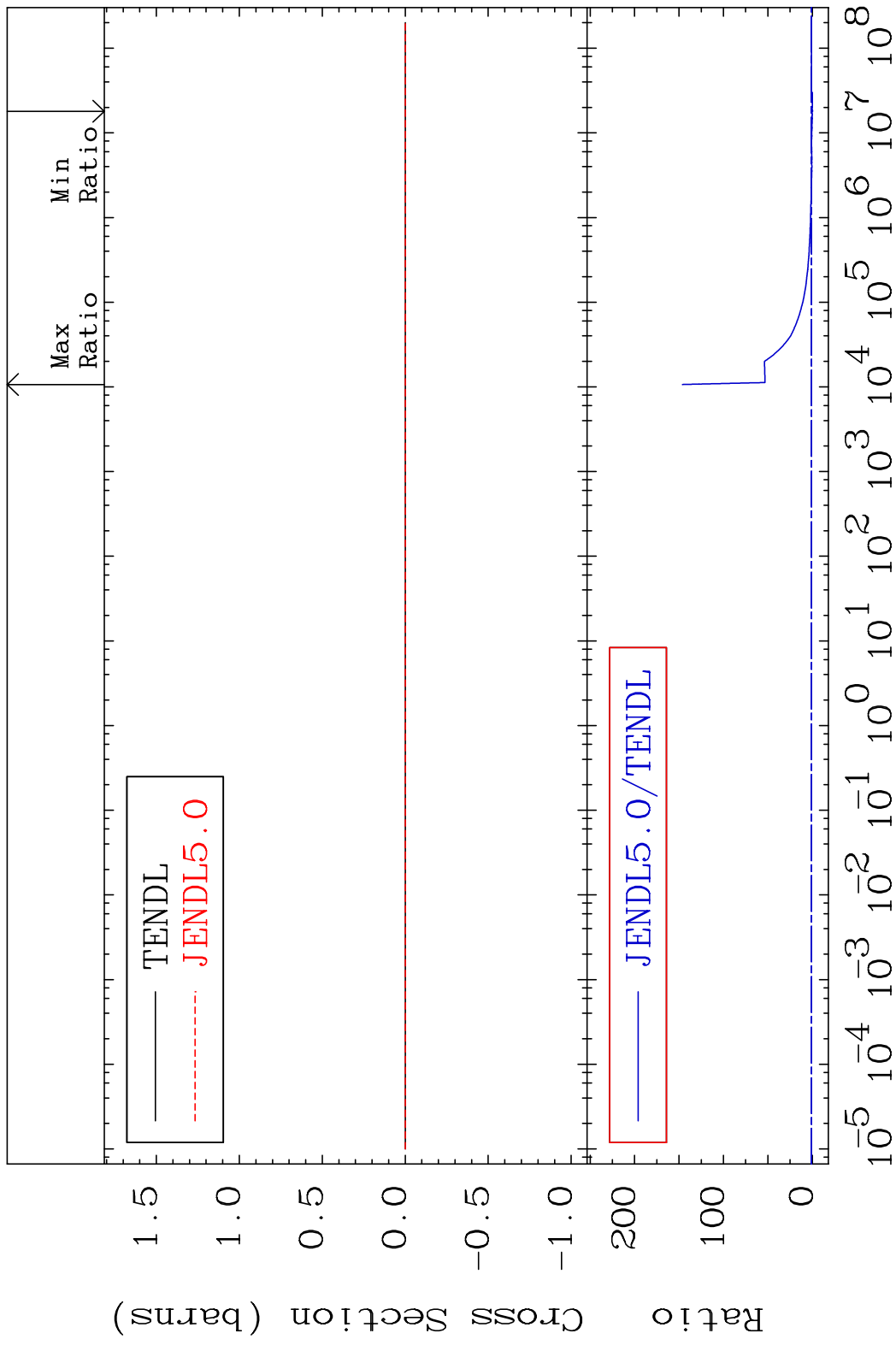
39 Incident Energy (eV) 57-La-137

MAT 5722 Kerma inelastic (mt51-91) 57-La-137
 Cross Section -127.7 To 9999. %



40 Incident Energy (eV) 57-La-137

MAT 5722 Kerma fission (mt18 or mt19-20-21-38) 57-La-137
 Cross Section -127.7 To 9999. %

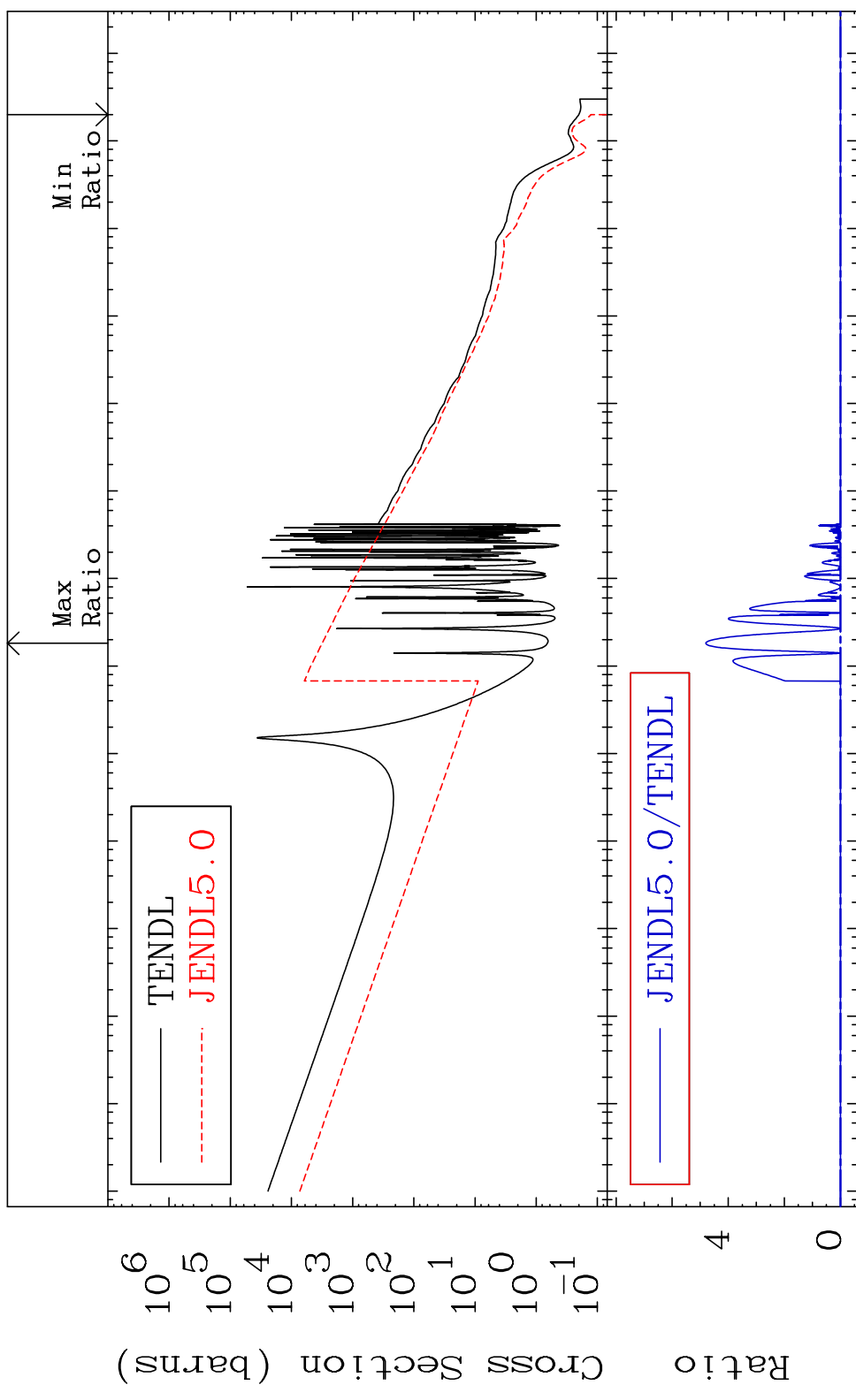


MAT 5722

Kerma capture (mt102)

57-La-137

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

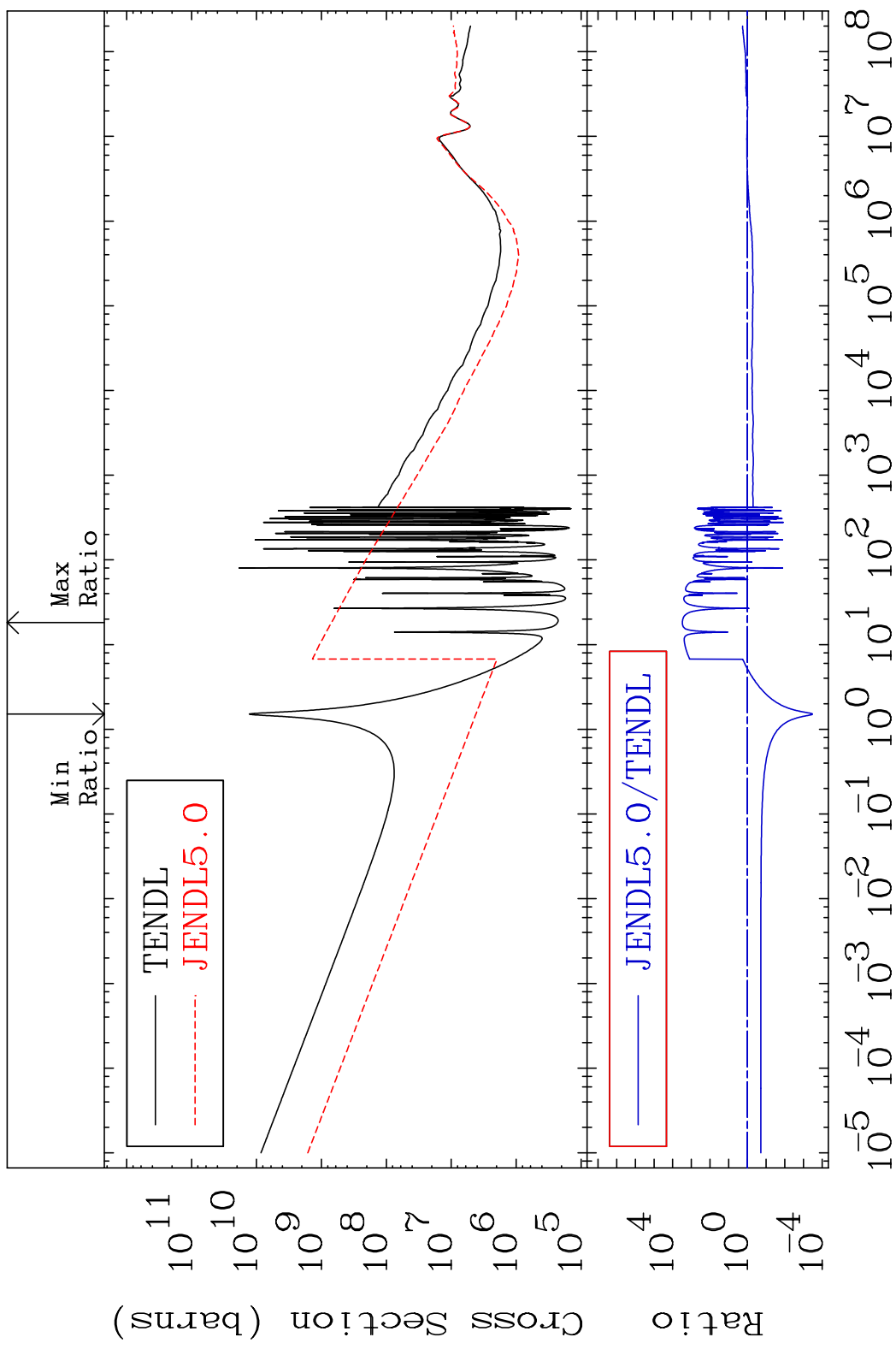
57-La-137

MAT 5722

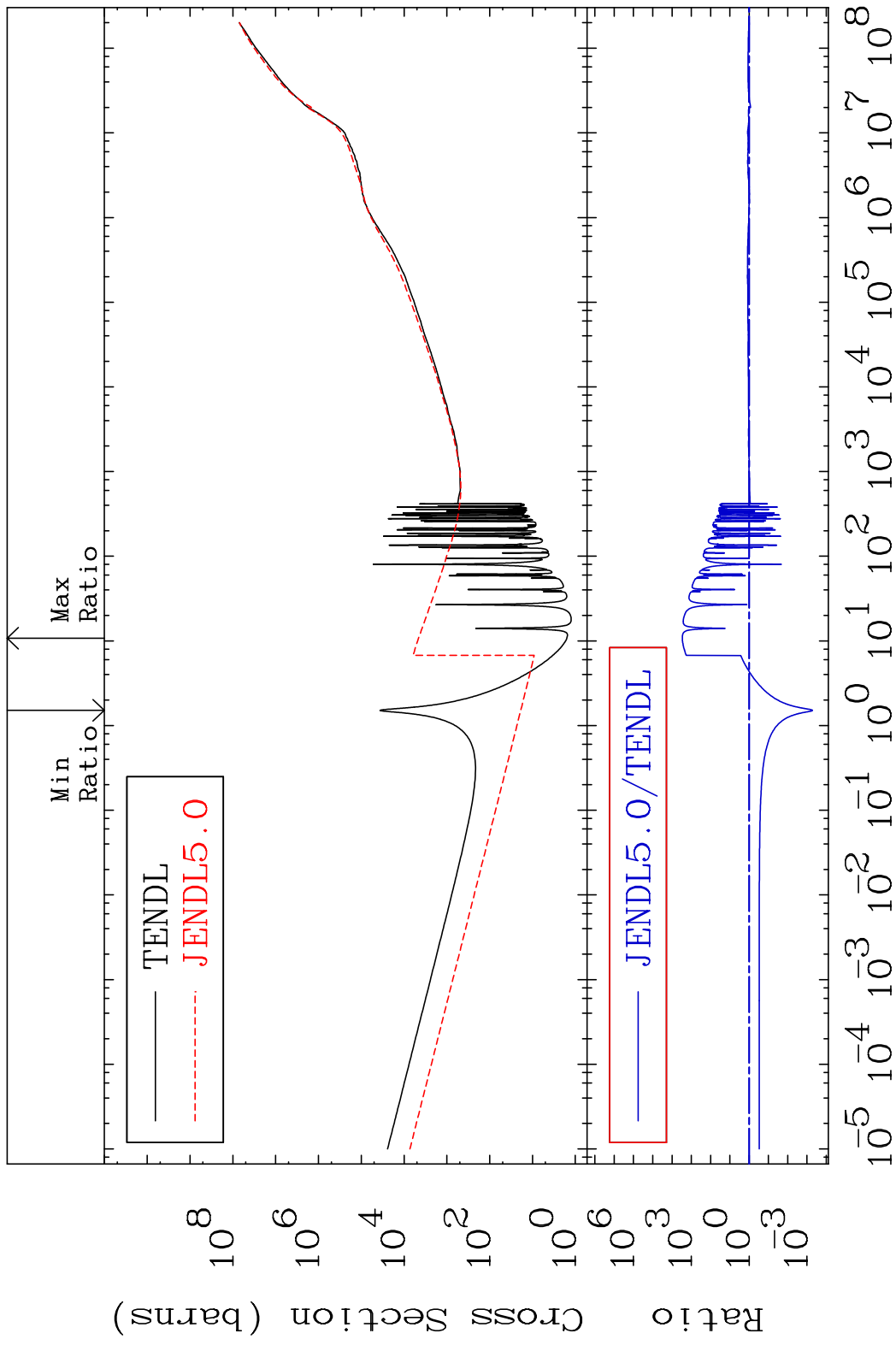
Total photon (eV-barns)

57-La-137

Cross Section -99.97 To 9999. %



MAT 5722 Total kinematic kerma (high limit) 57-La-137
 Cross Section -99.95 To 9999. %

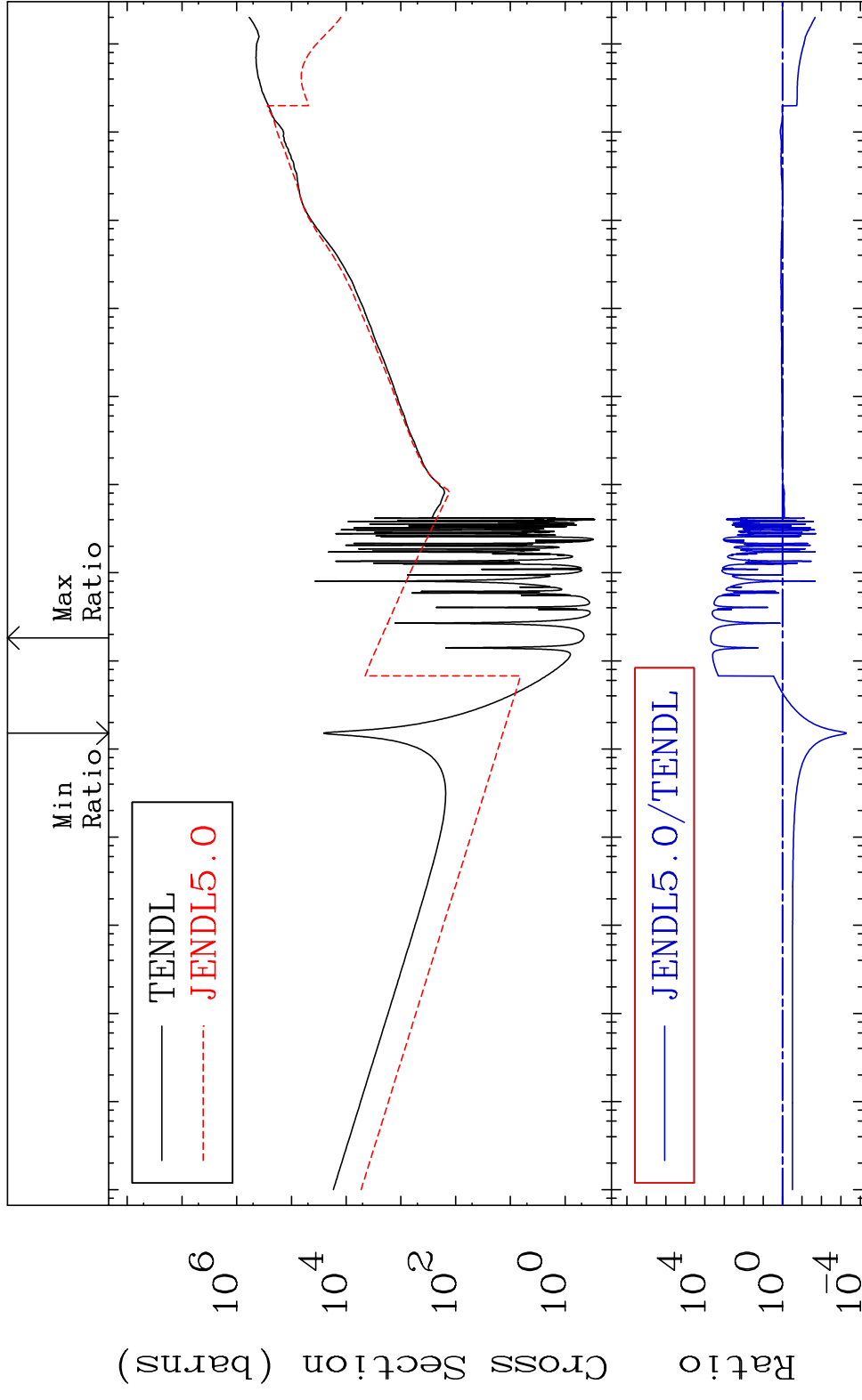


MAT 5722

Dpa total (eV-barns)

57-La-137

Cross Section -99.95 To 9999. %



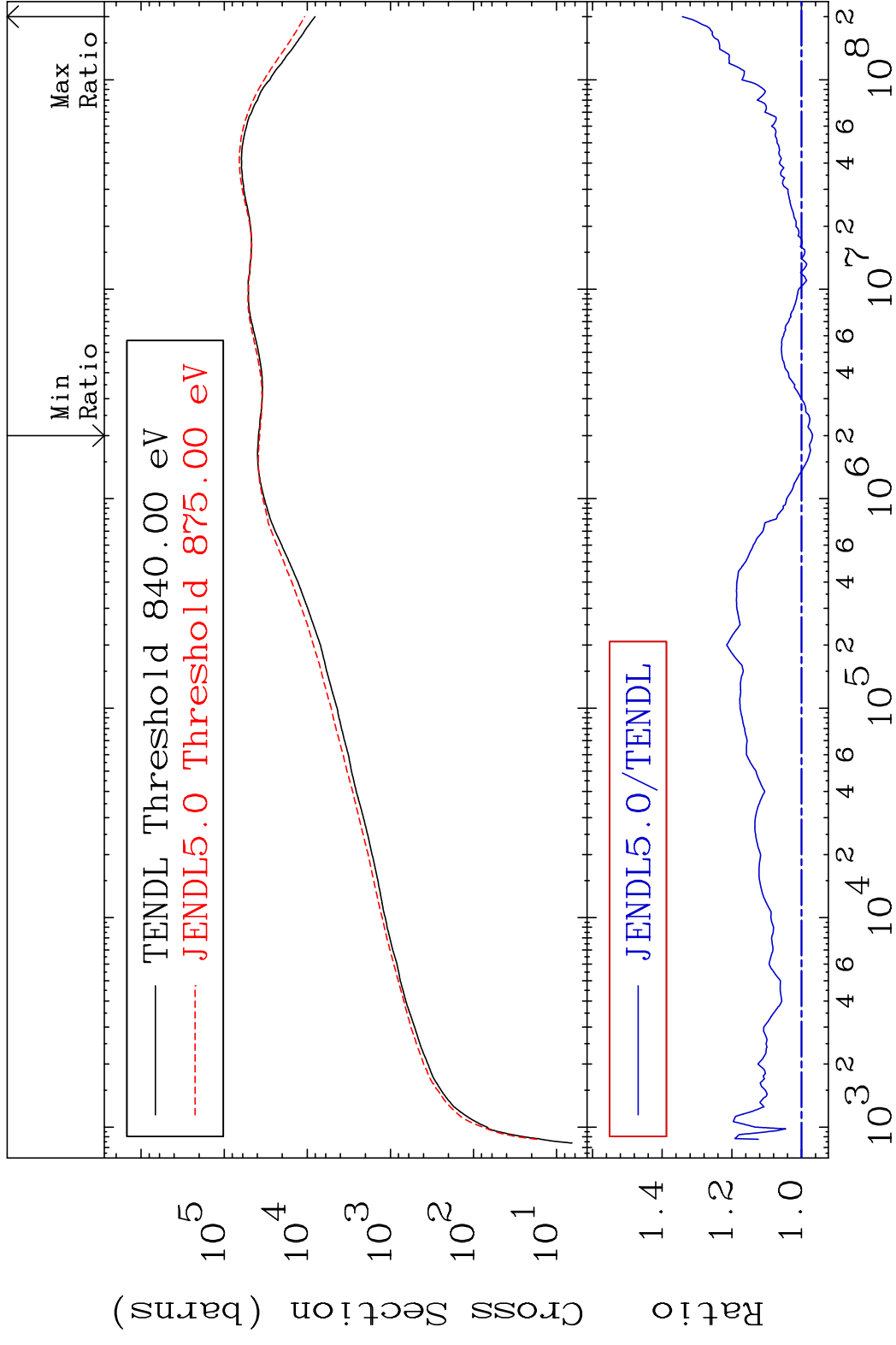
MAT 5722

Dpa elastic (mt2)

57-La-137

Cross Section

-3.165 To 34.20 %



46

Incident Energy (eV)

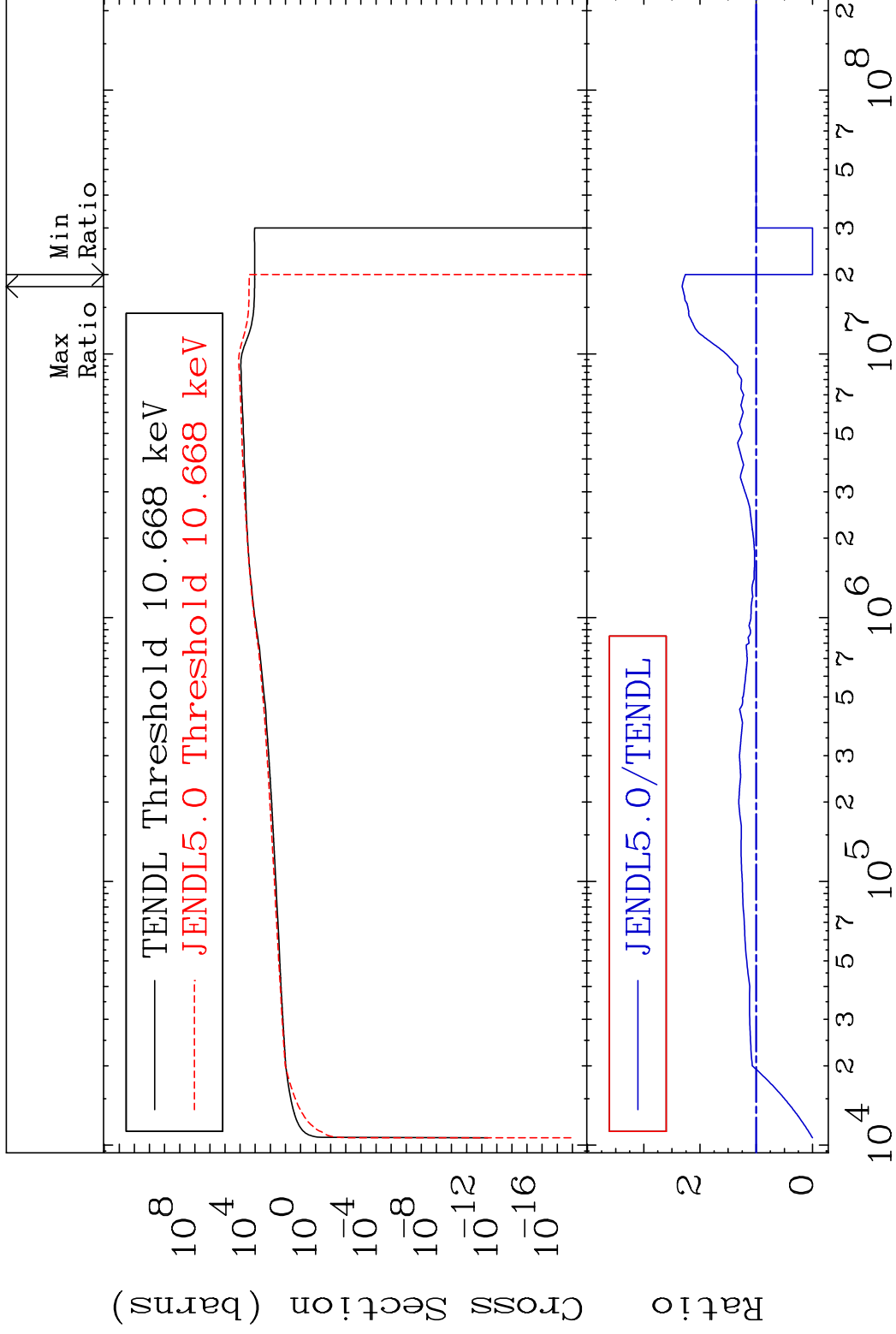
57-La-137

MAT 5722

Dpa inelastic (mt51-91)

57-La-137

Cross Section -100.0 To 131.8 %

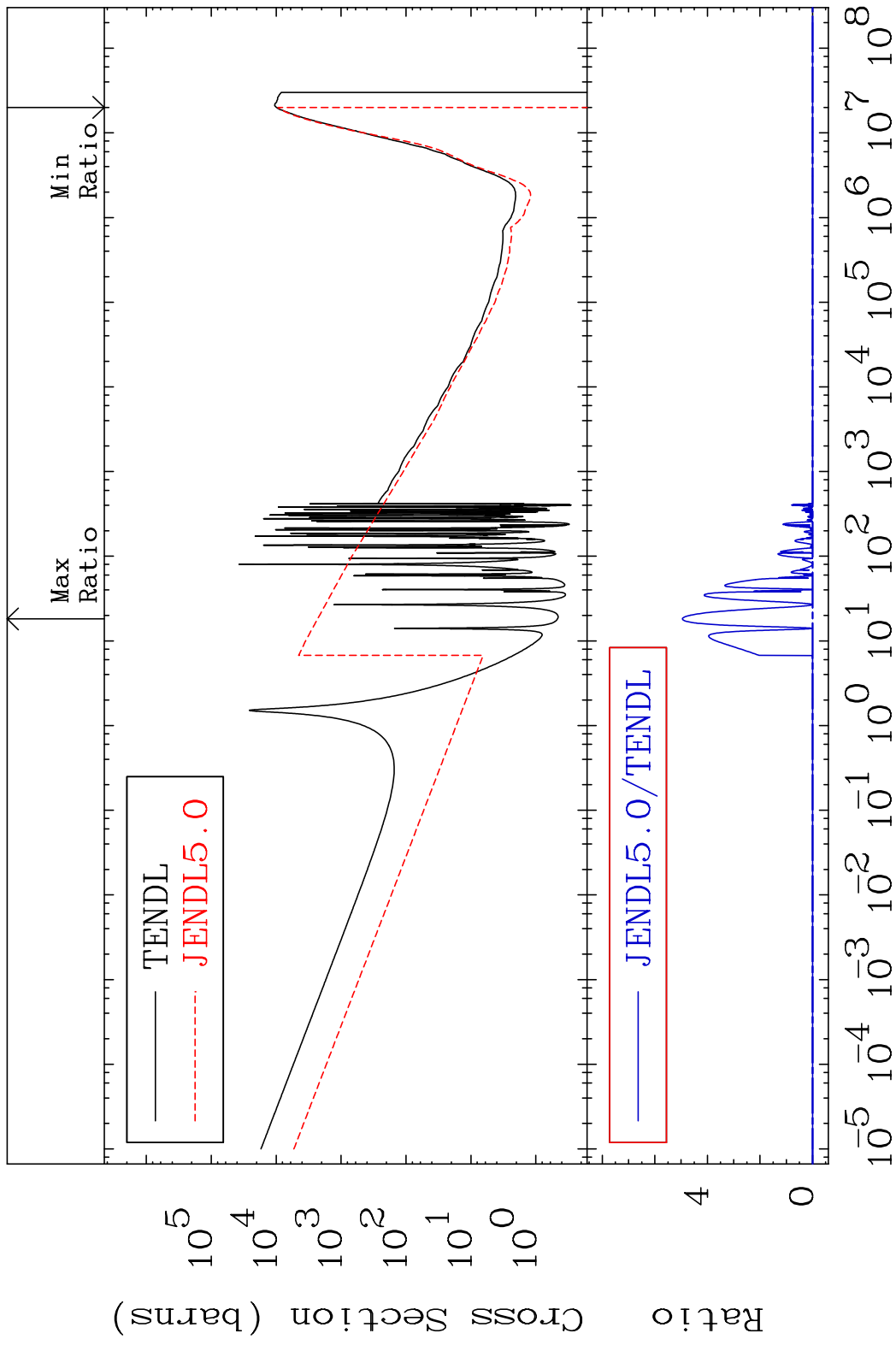


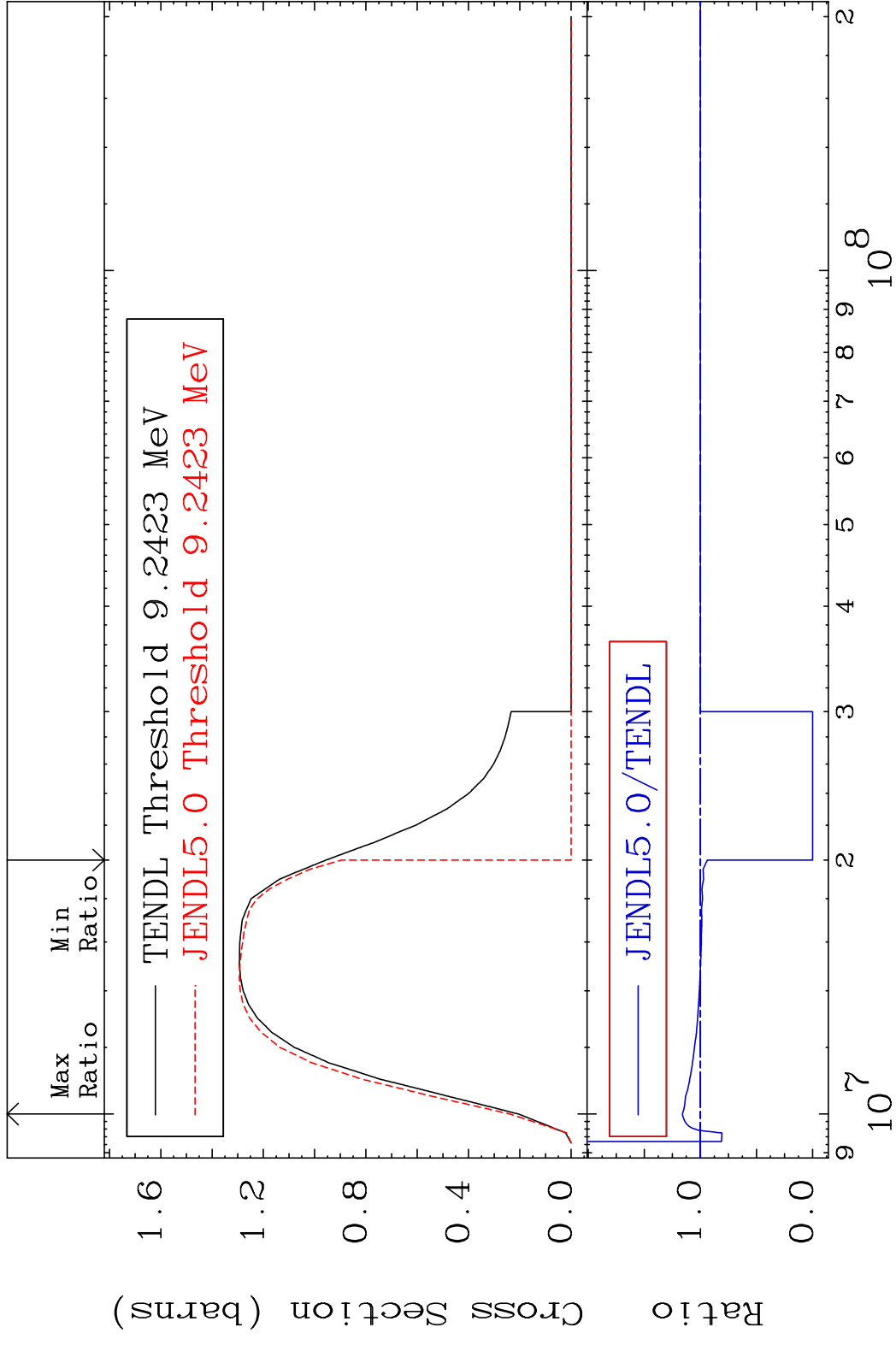
47

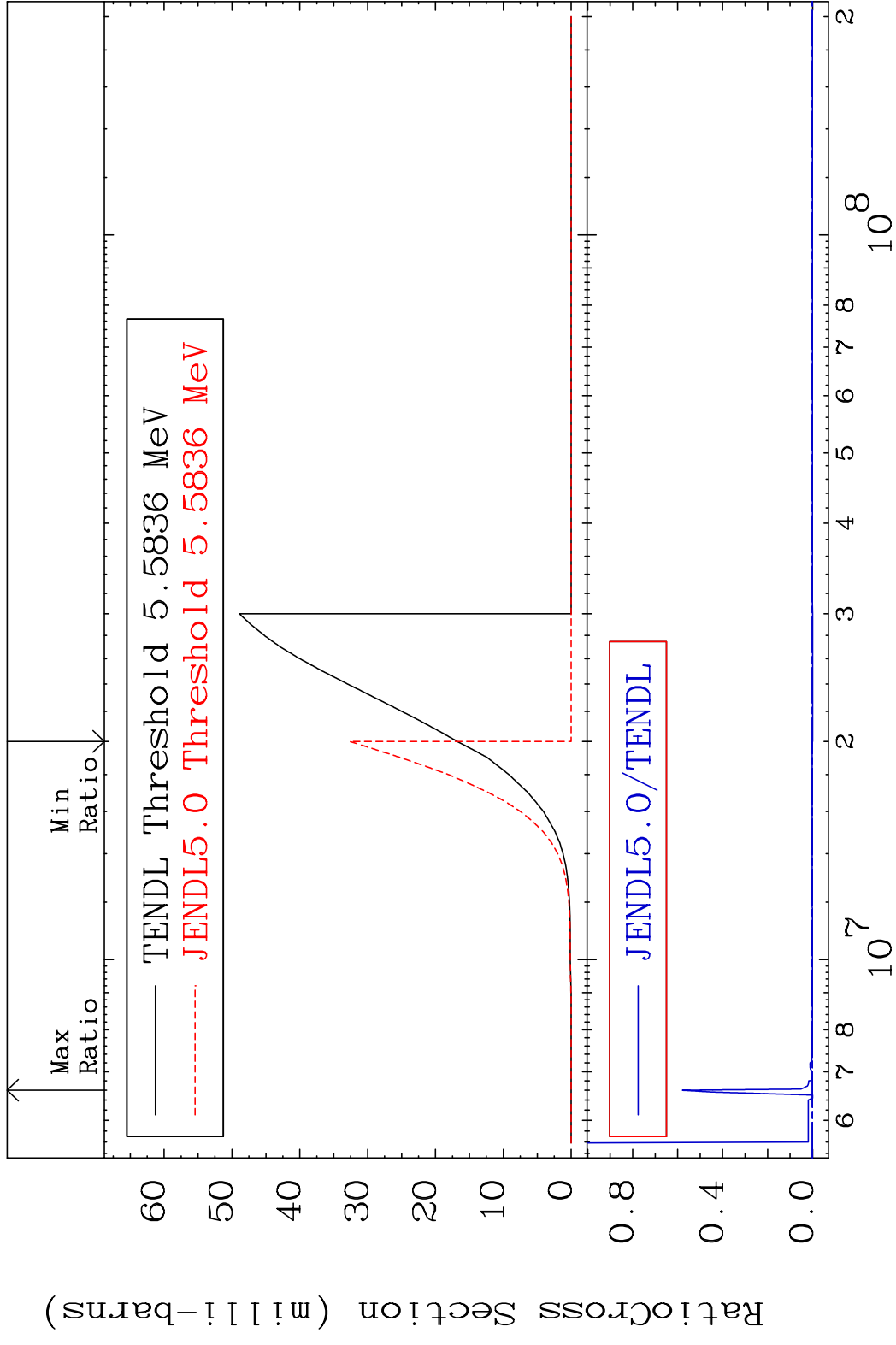
Incident Energy (eV)

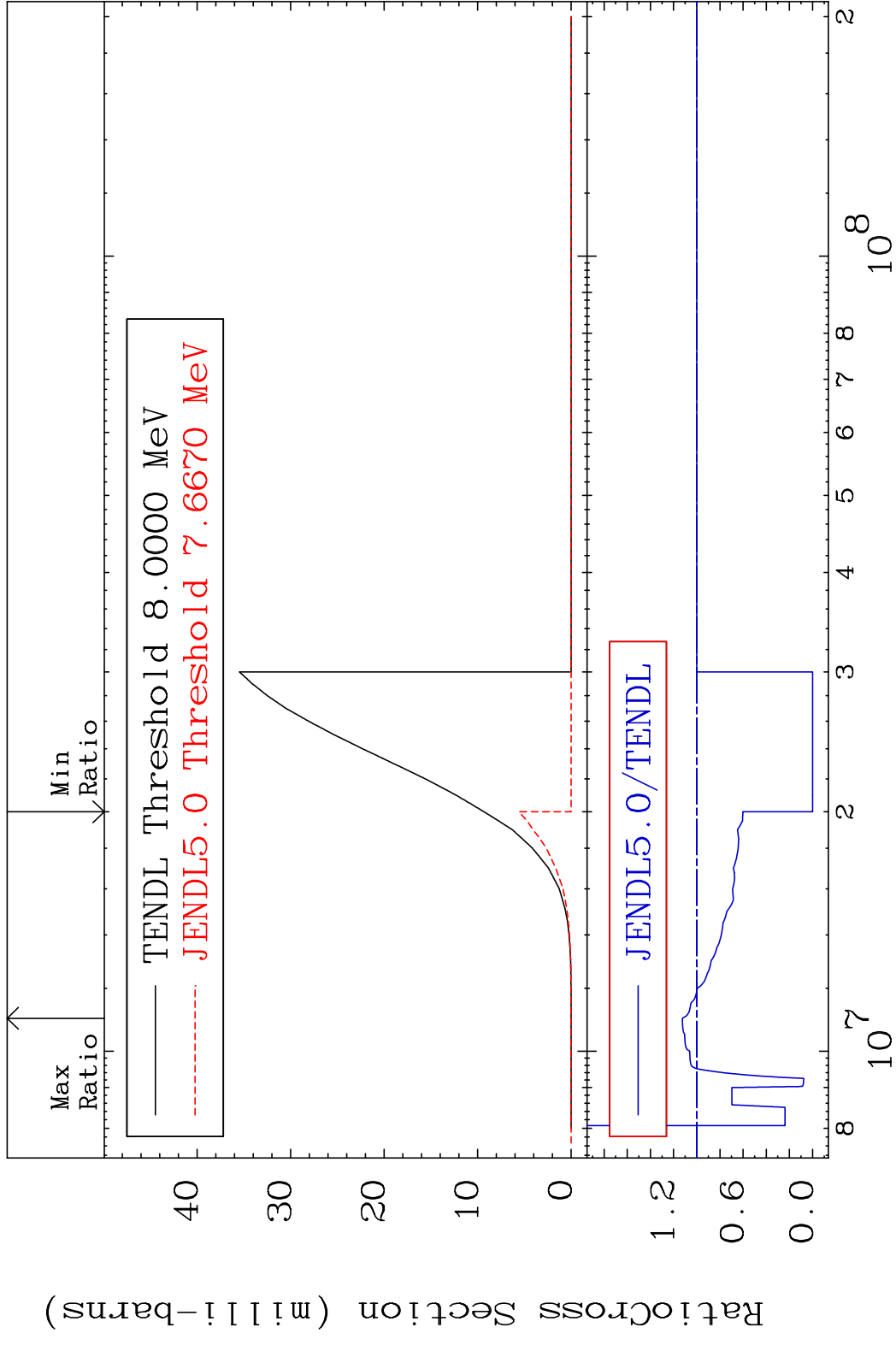
57-La-137

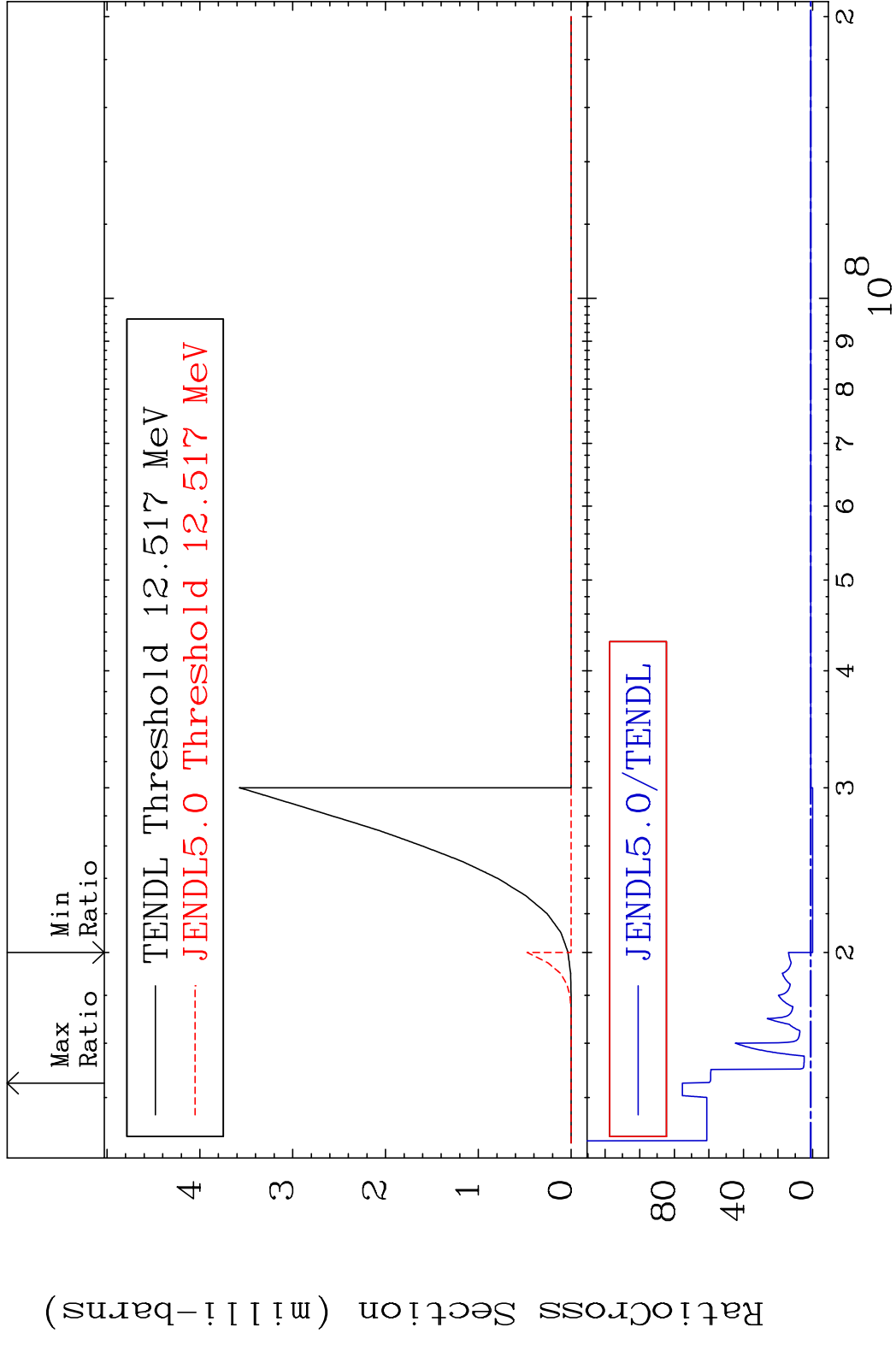
MAT 5722 Dpa disappearance (mt102 -120) 57-La-137
Cross Section -100.0 To 9999. %

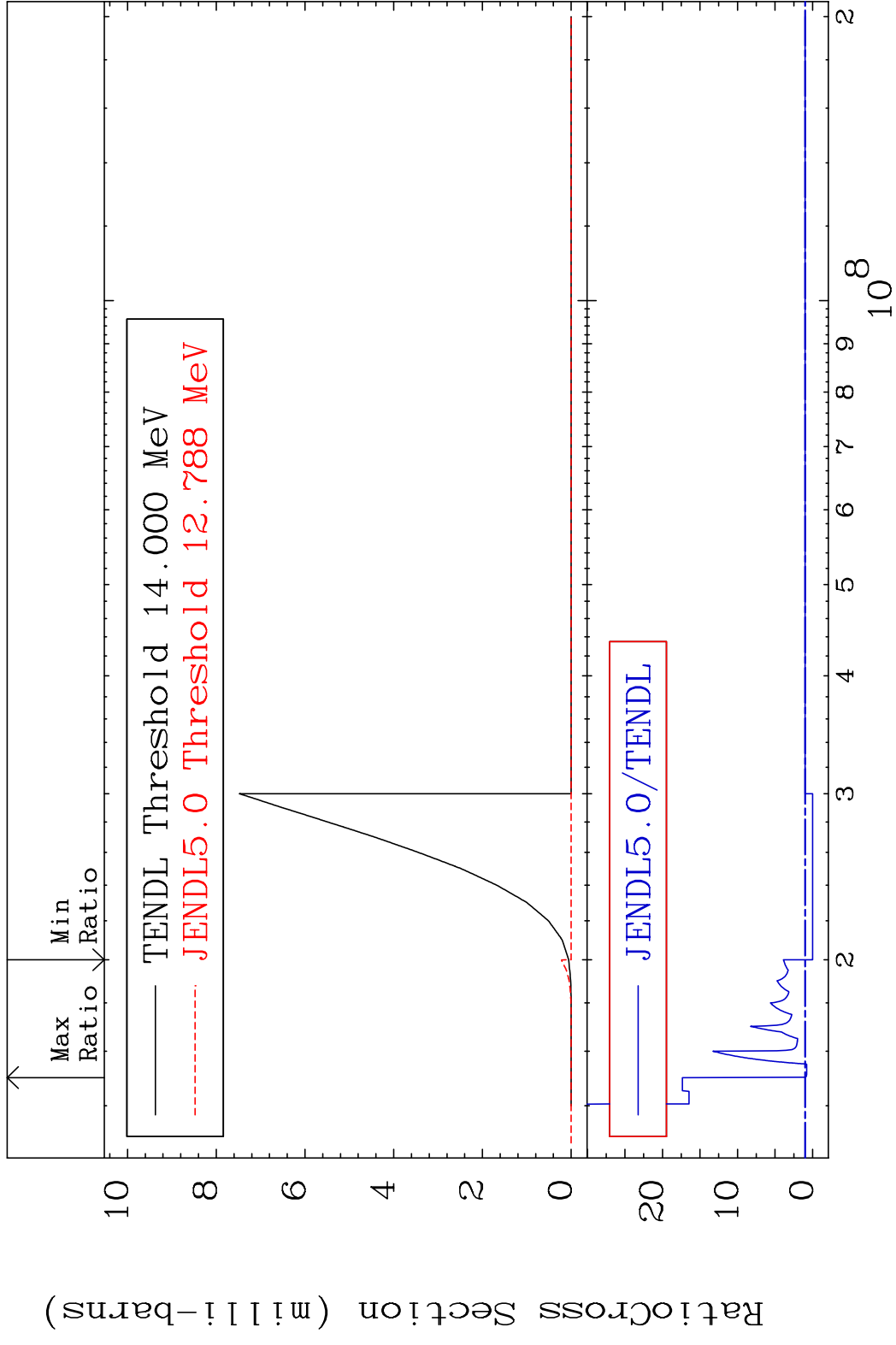


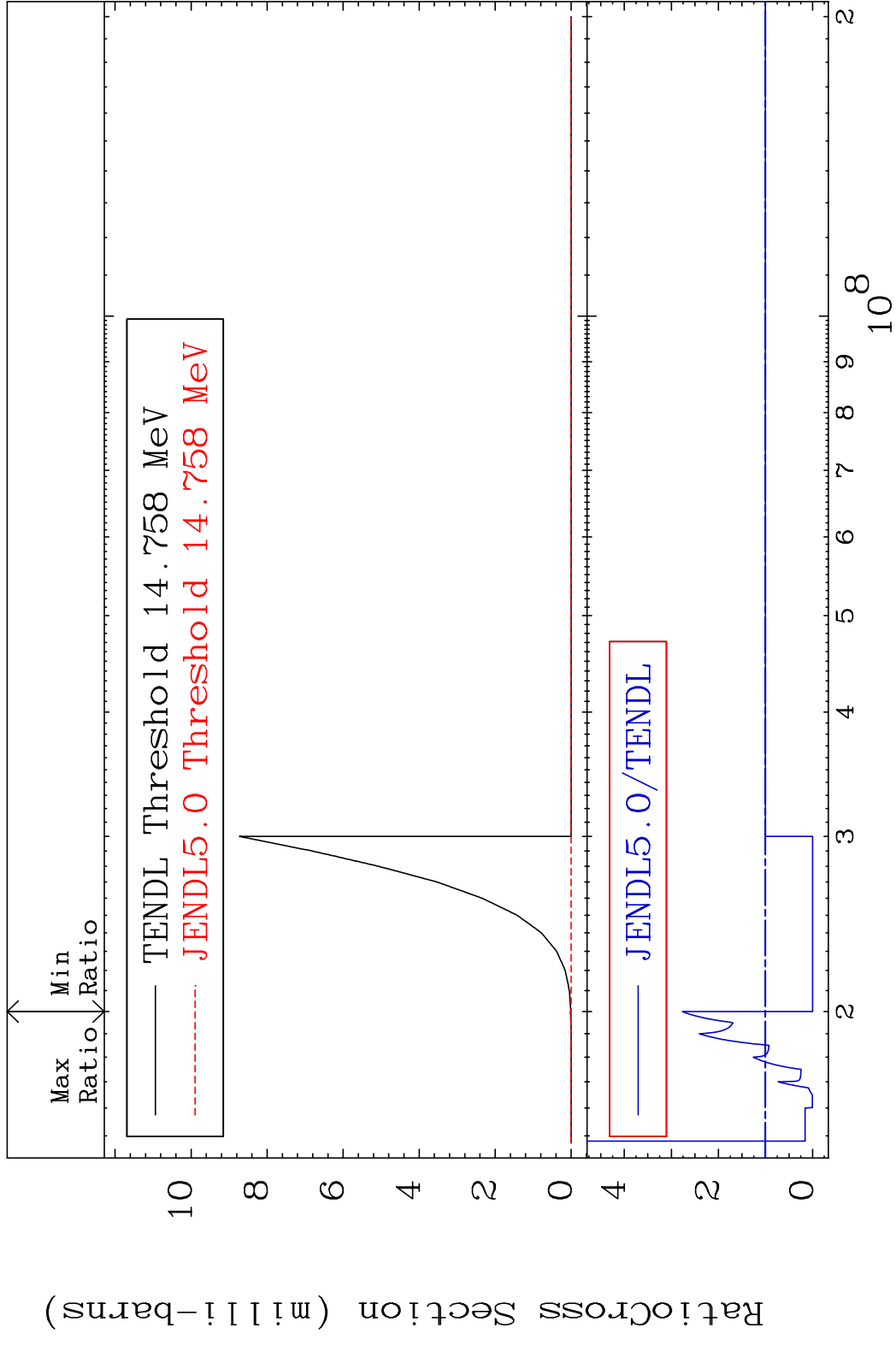


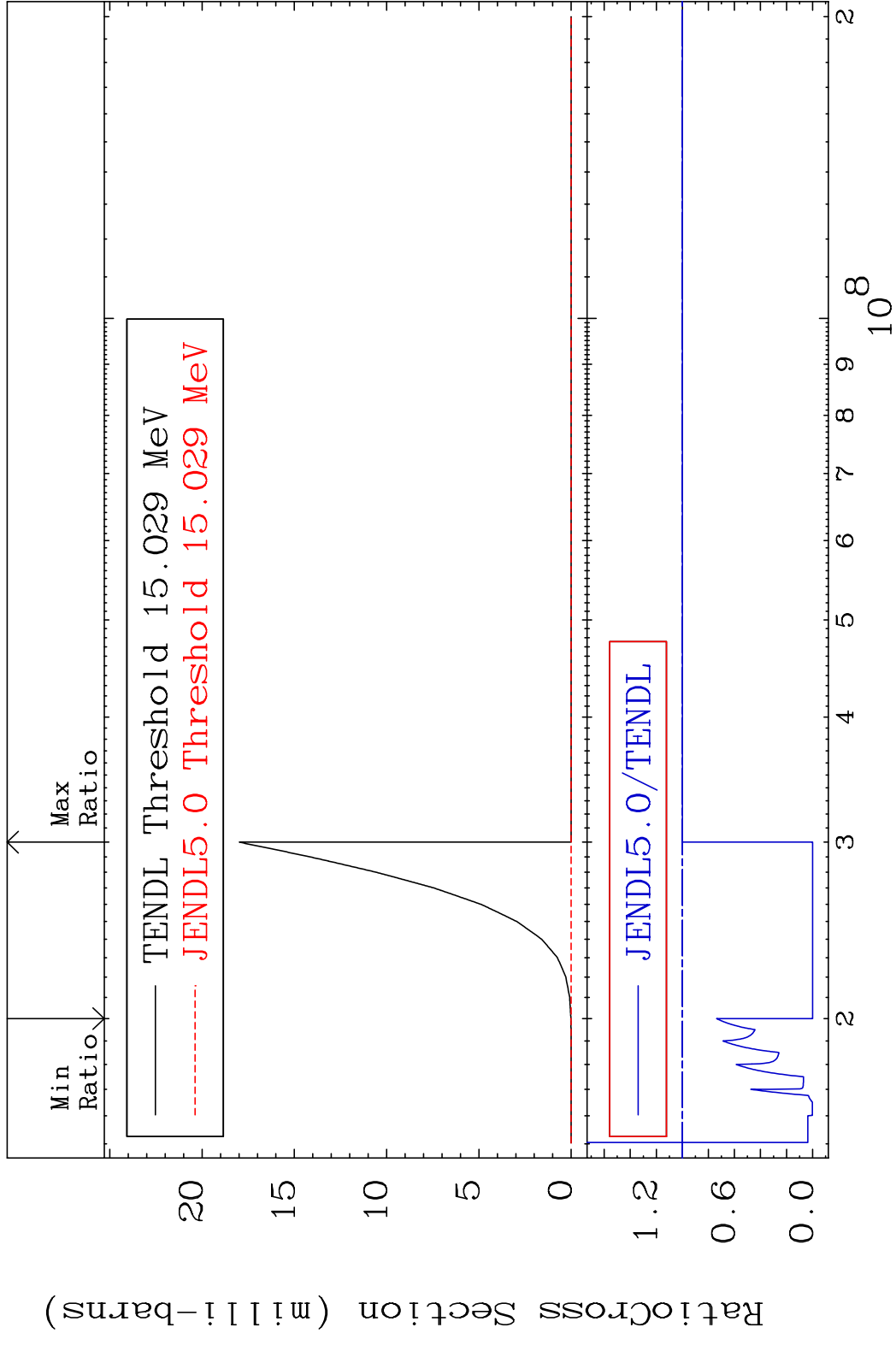


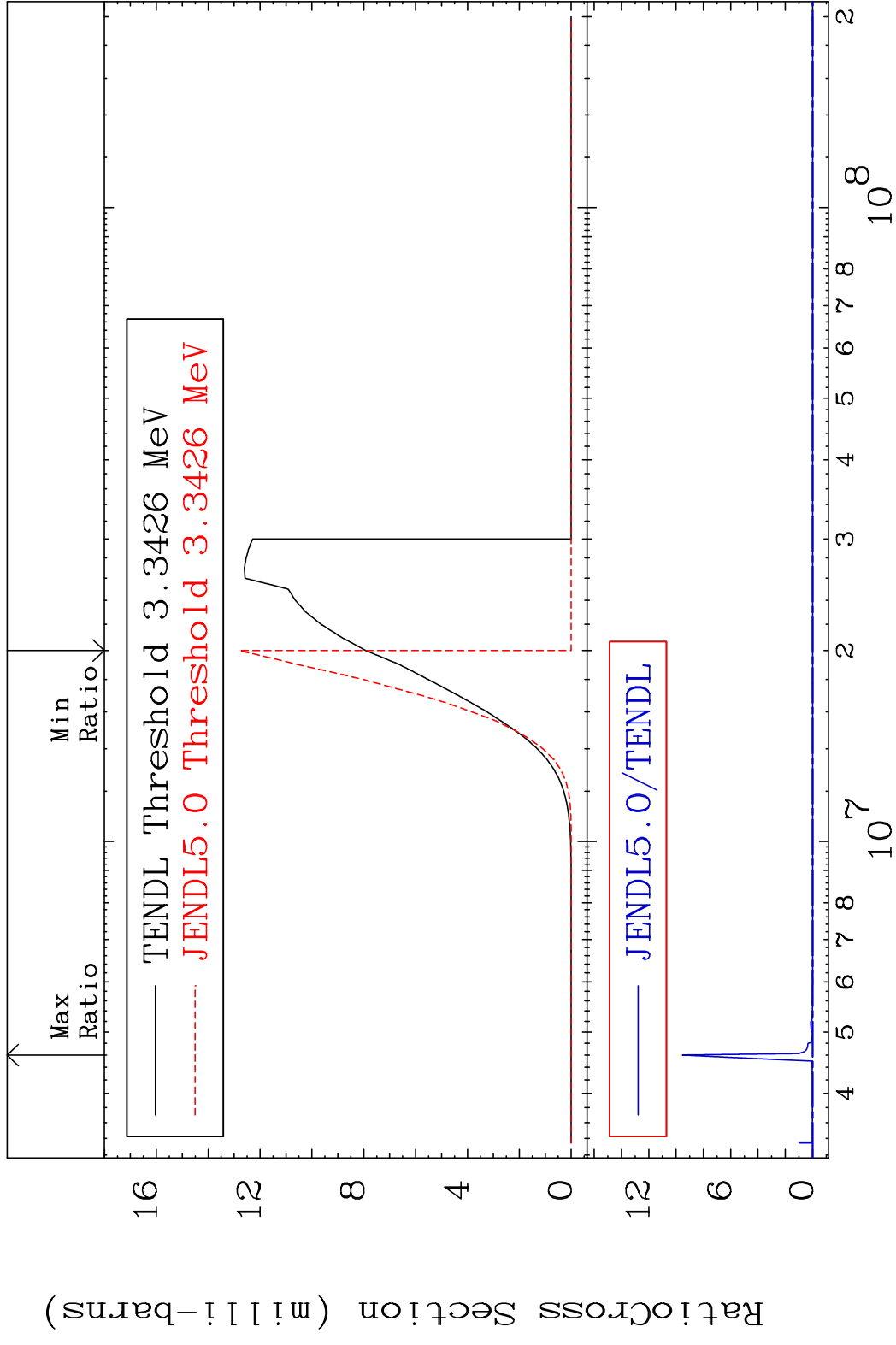


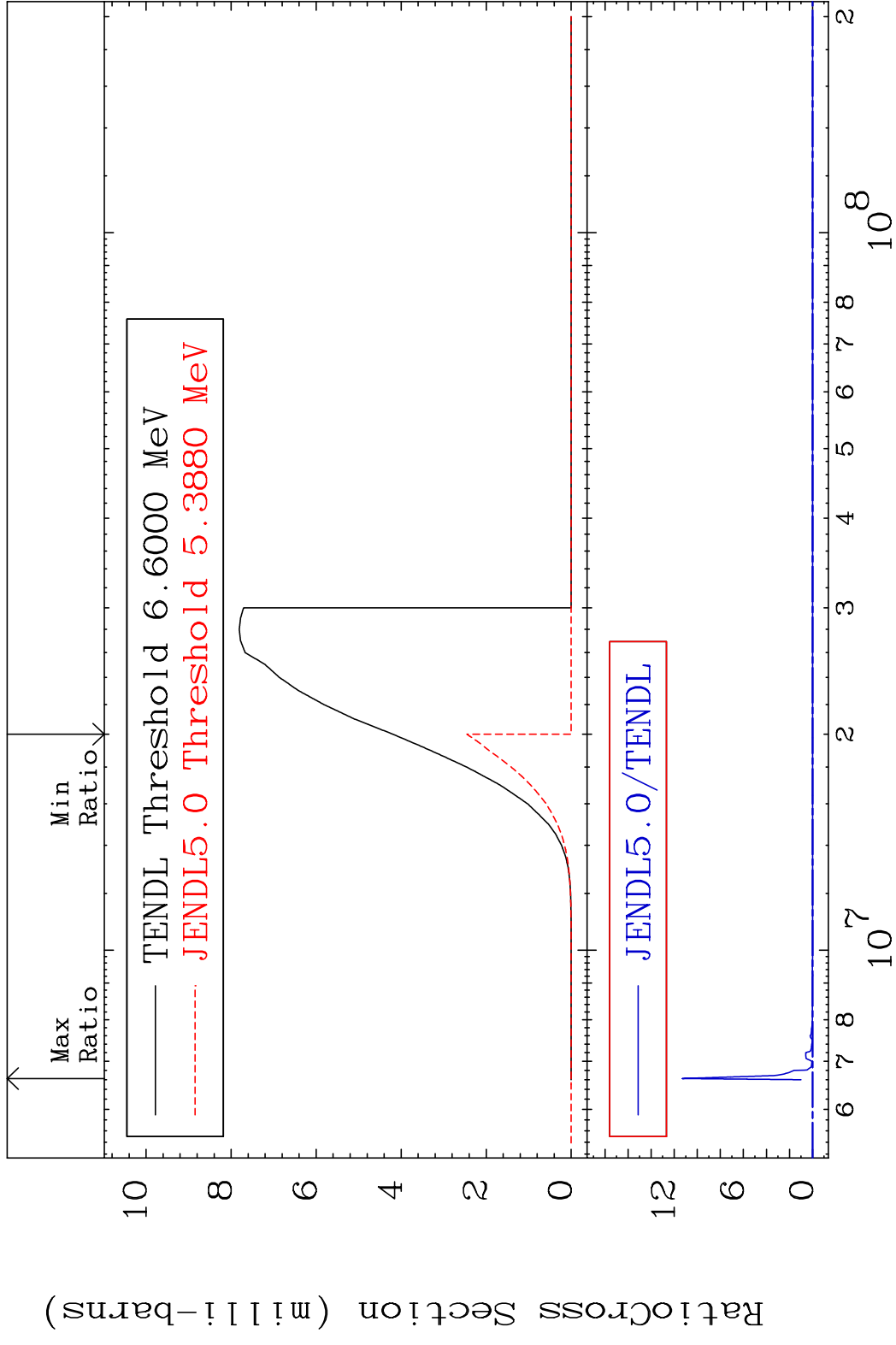


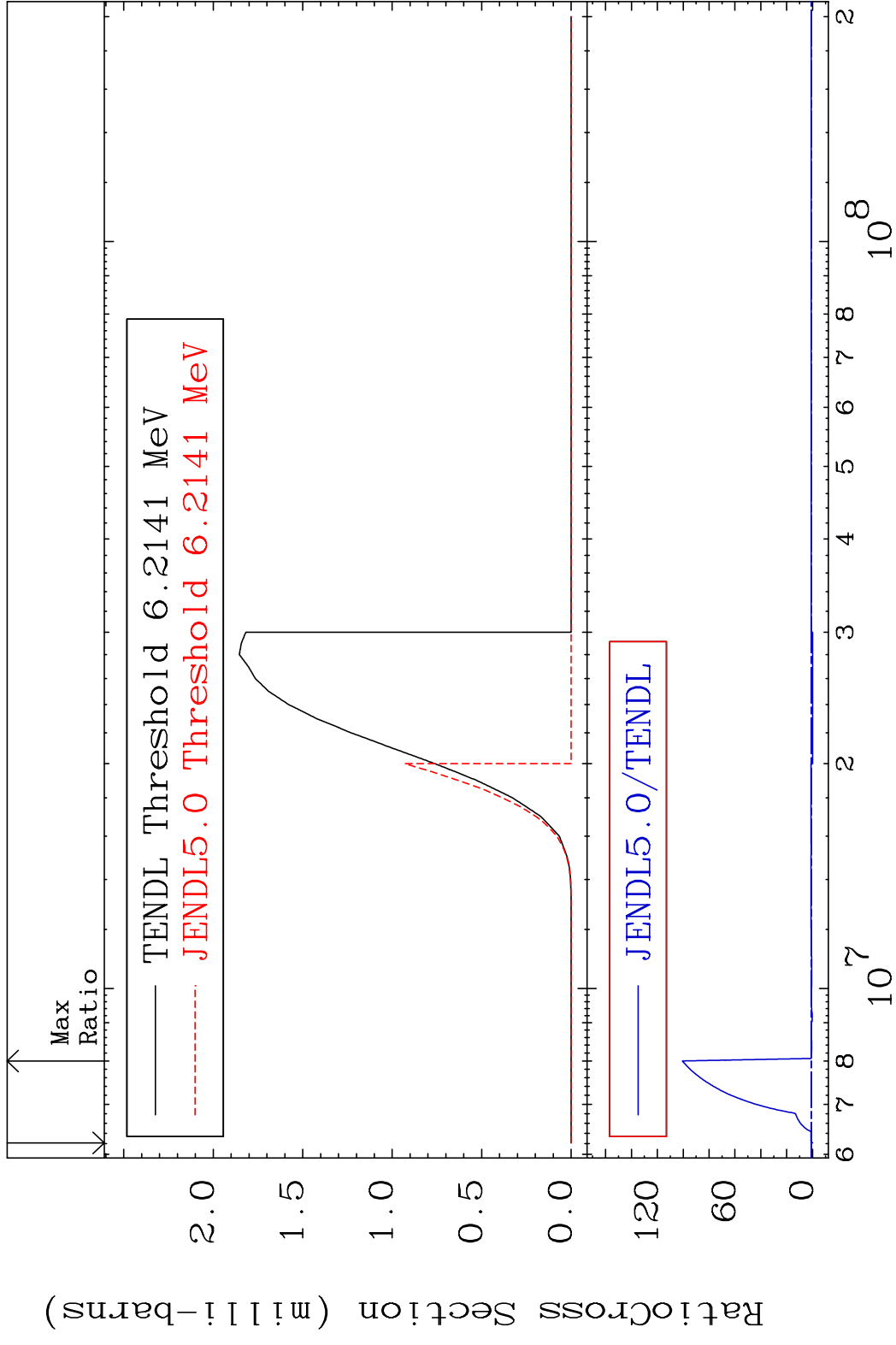




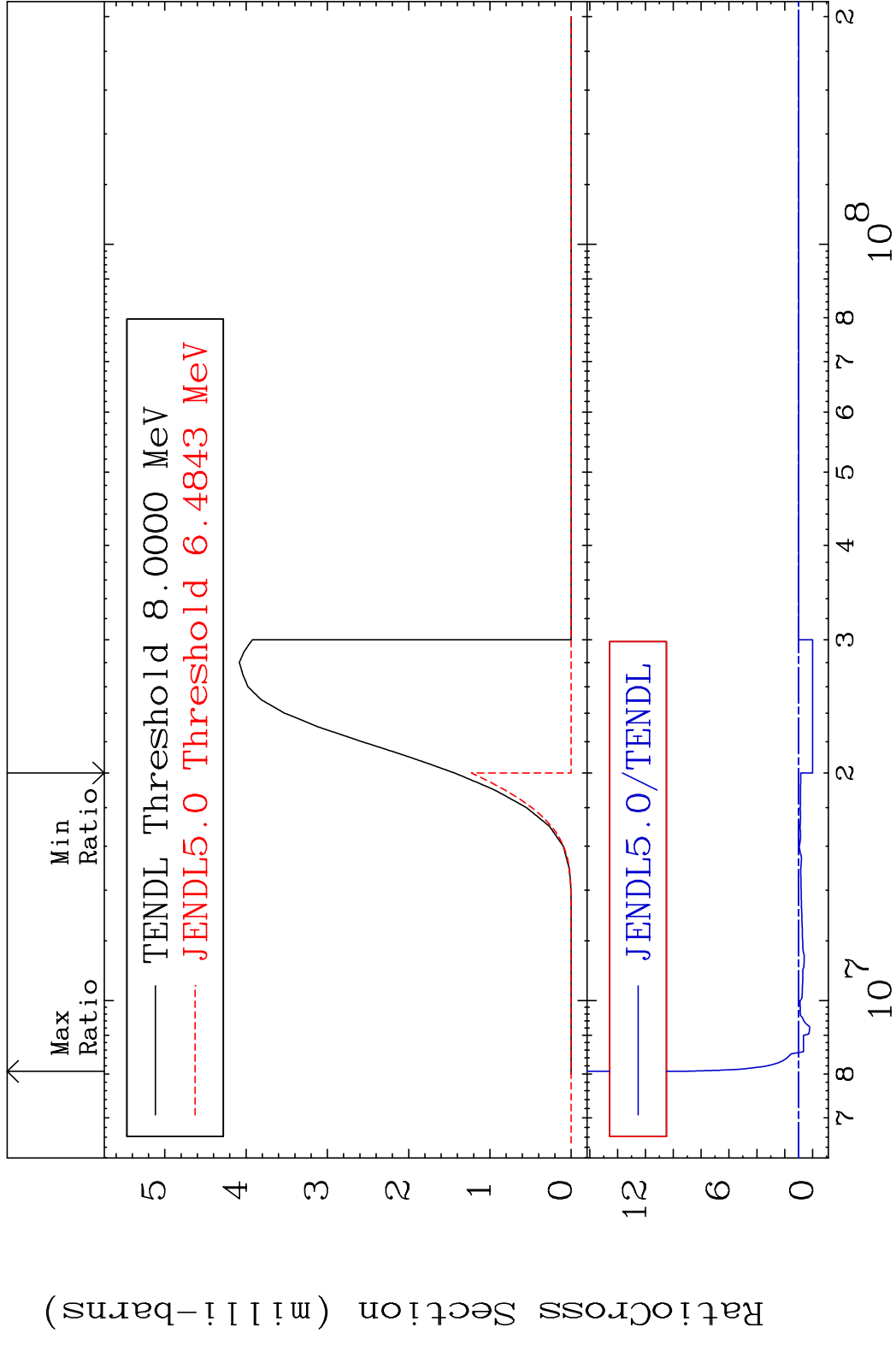


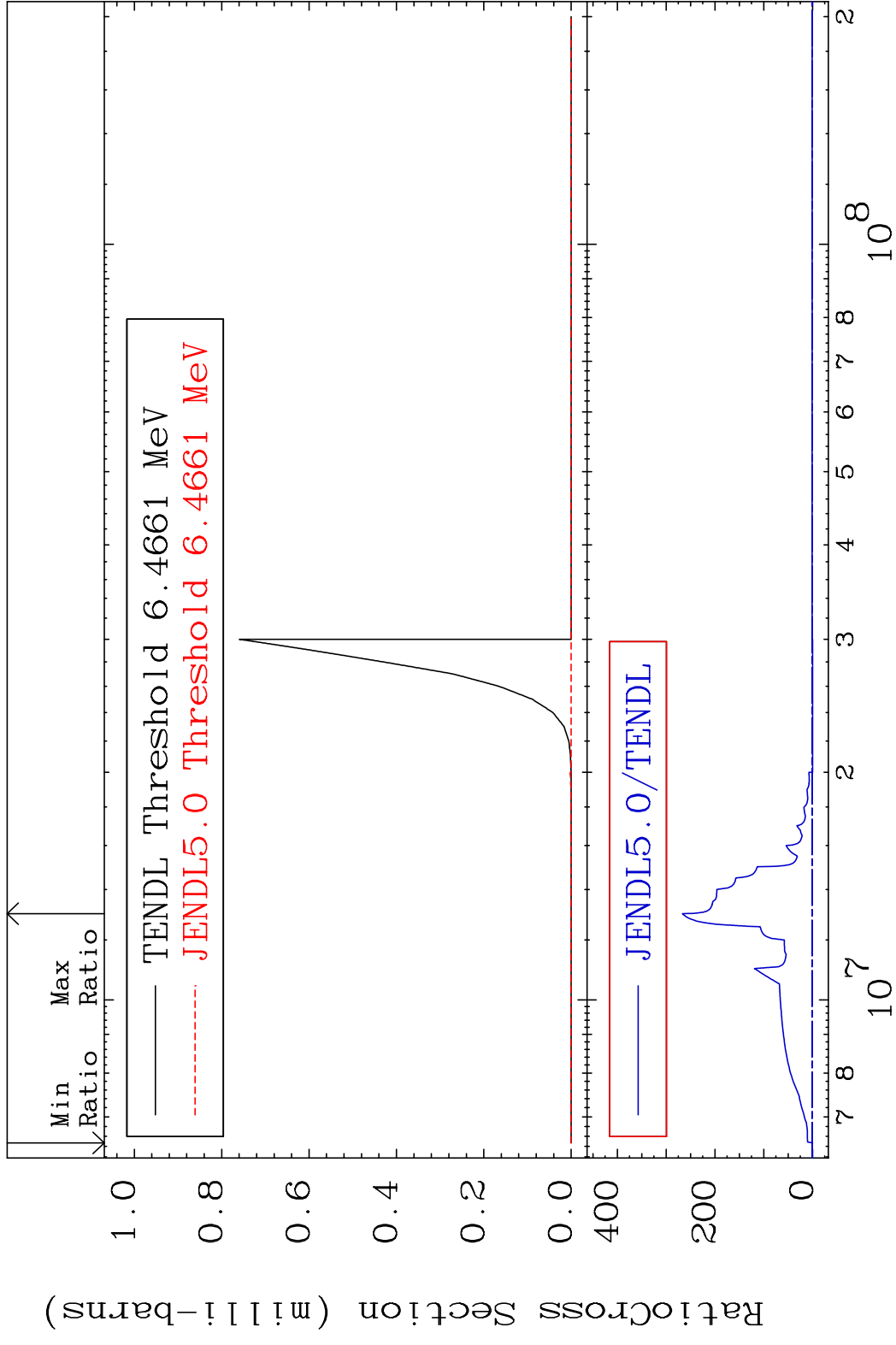


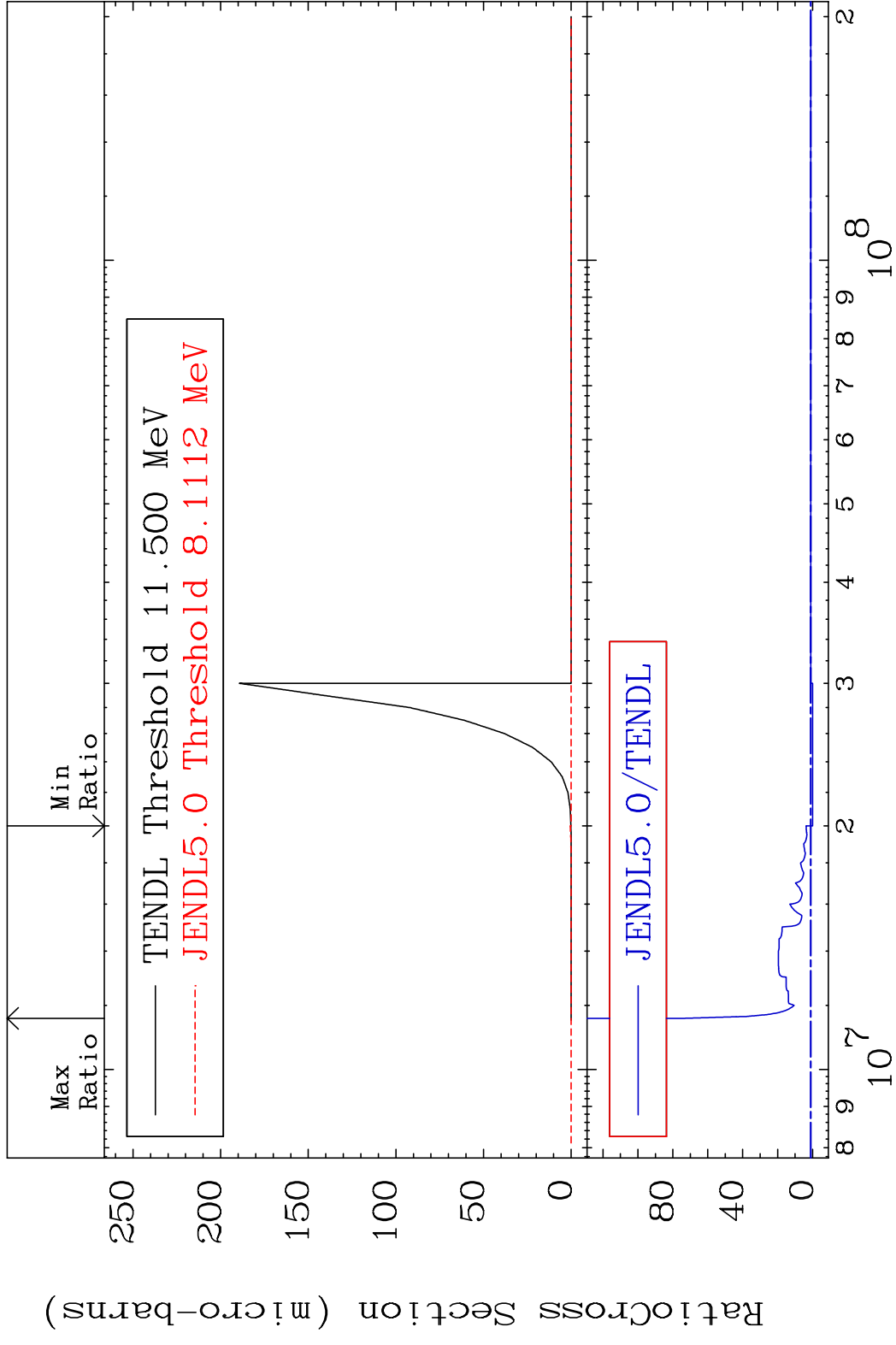




MAT 5722 (n, t):56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section 834.9 %





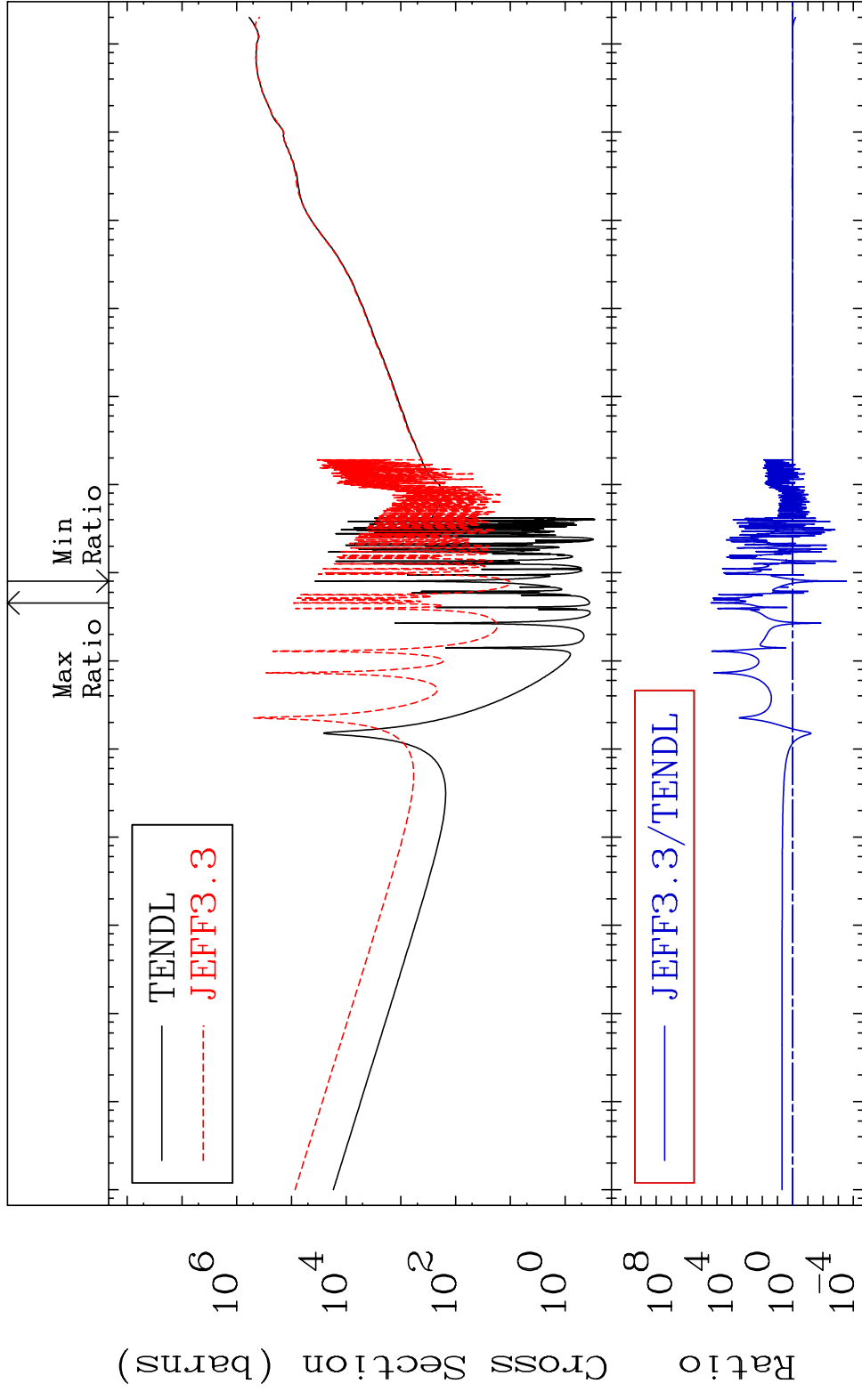


MAT 5722

Dpa total (eV-barns)

57-La-137

Cross Section -99.97 To 9999. %



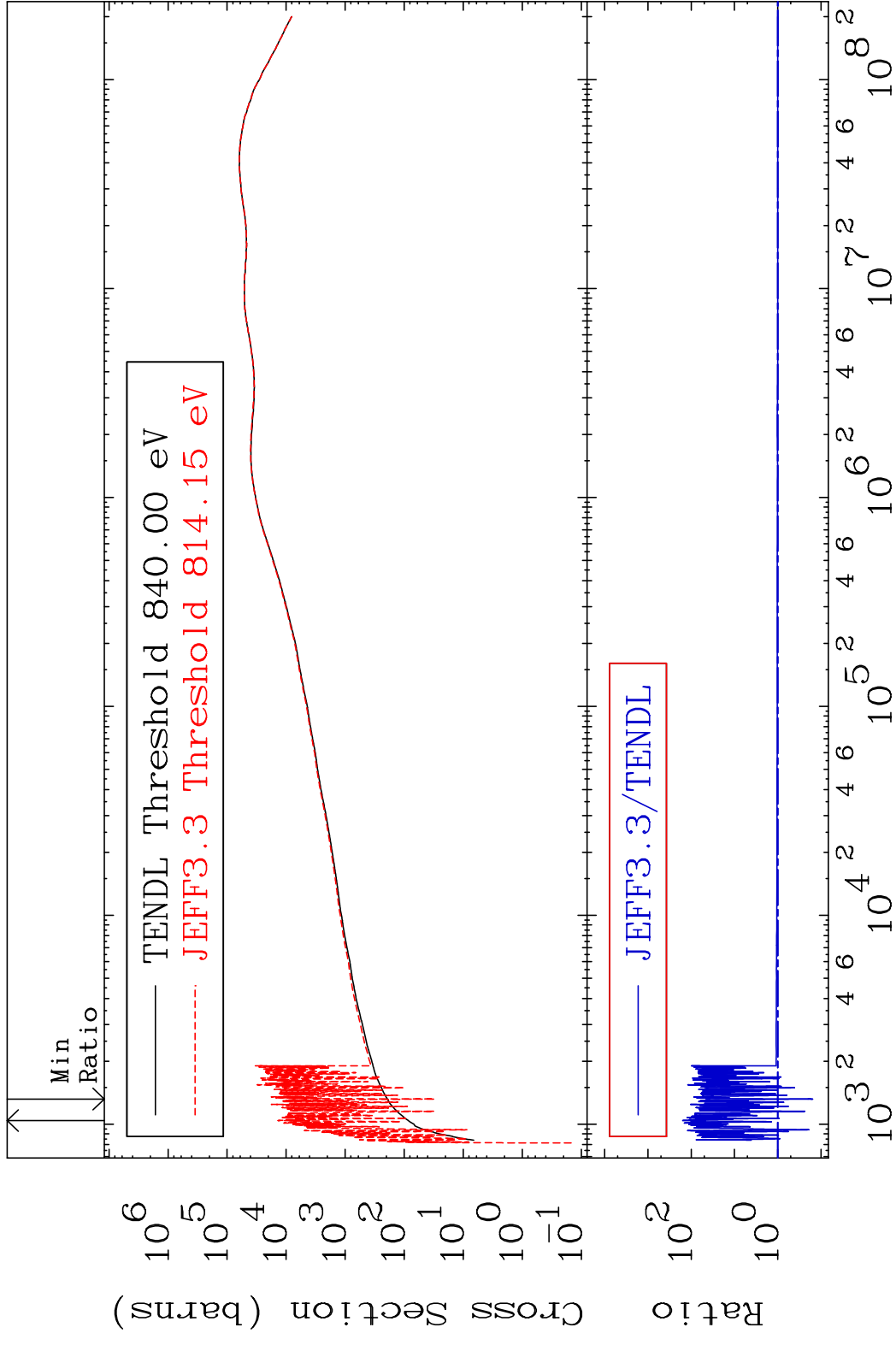
MAT 5722

Dpa elastic (mt2)

57-La-137

Cross Section

-84.37 To 9999. %



63

Incident Energy (eV)

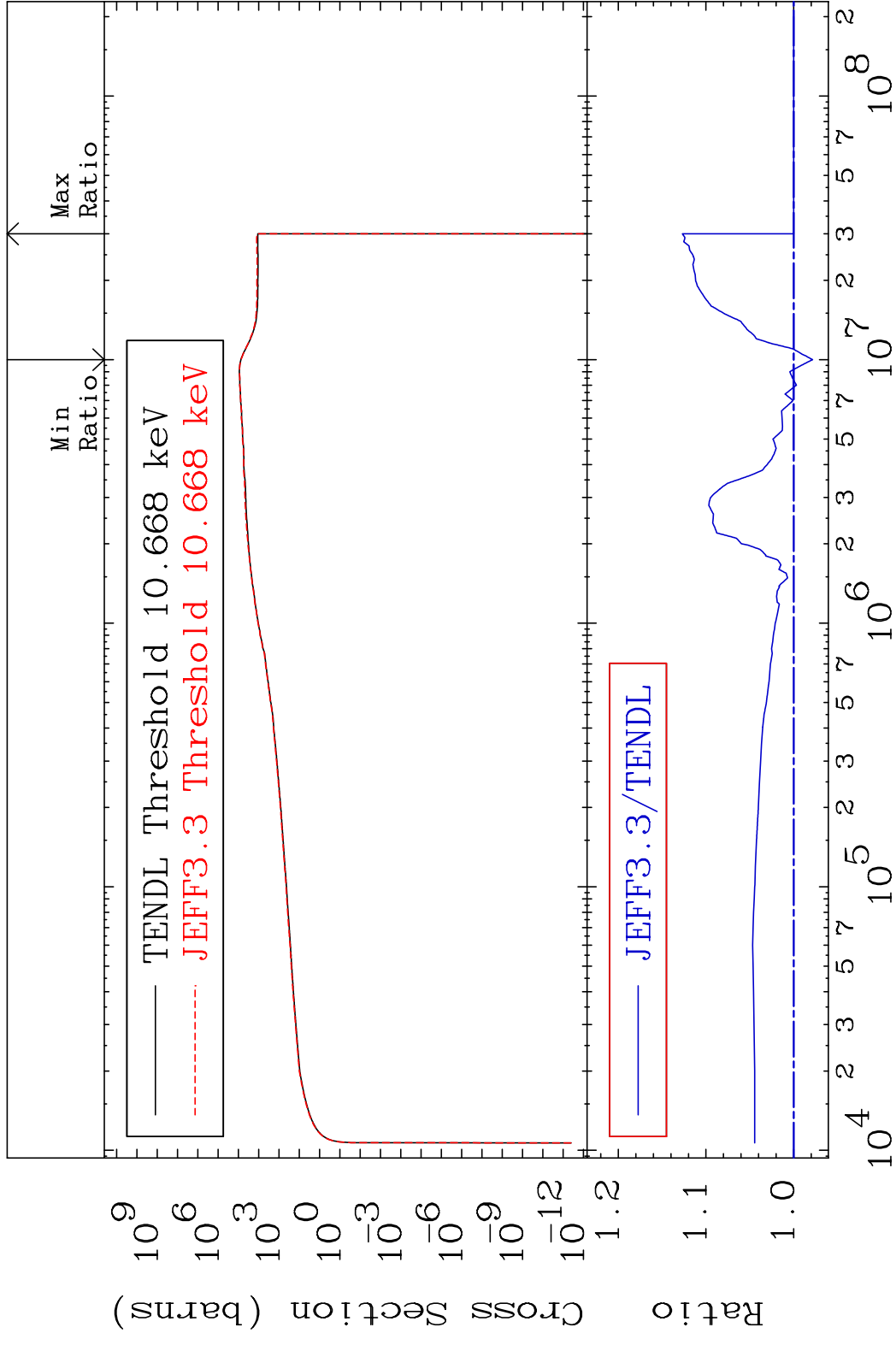
57-La-137

MAT 5722

Dpa inelastic (mt51-91)

57-La-137

Cross Section -2.149 To 12.69 %

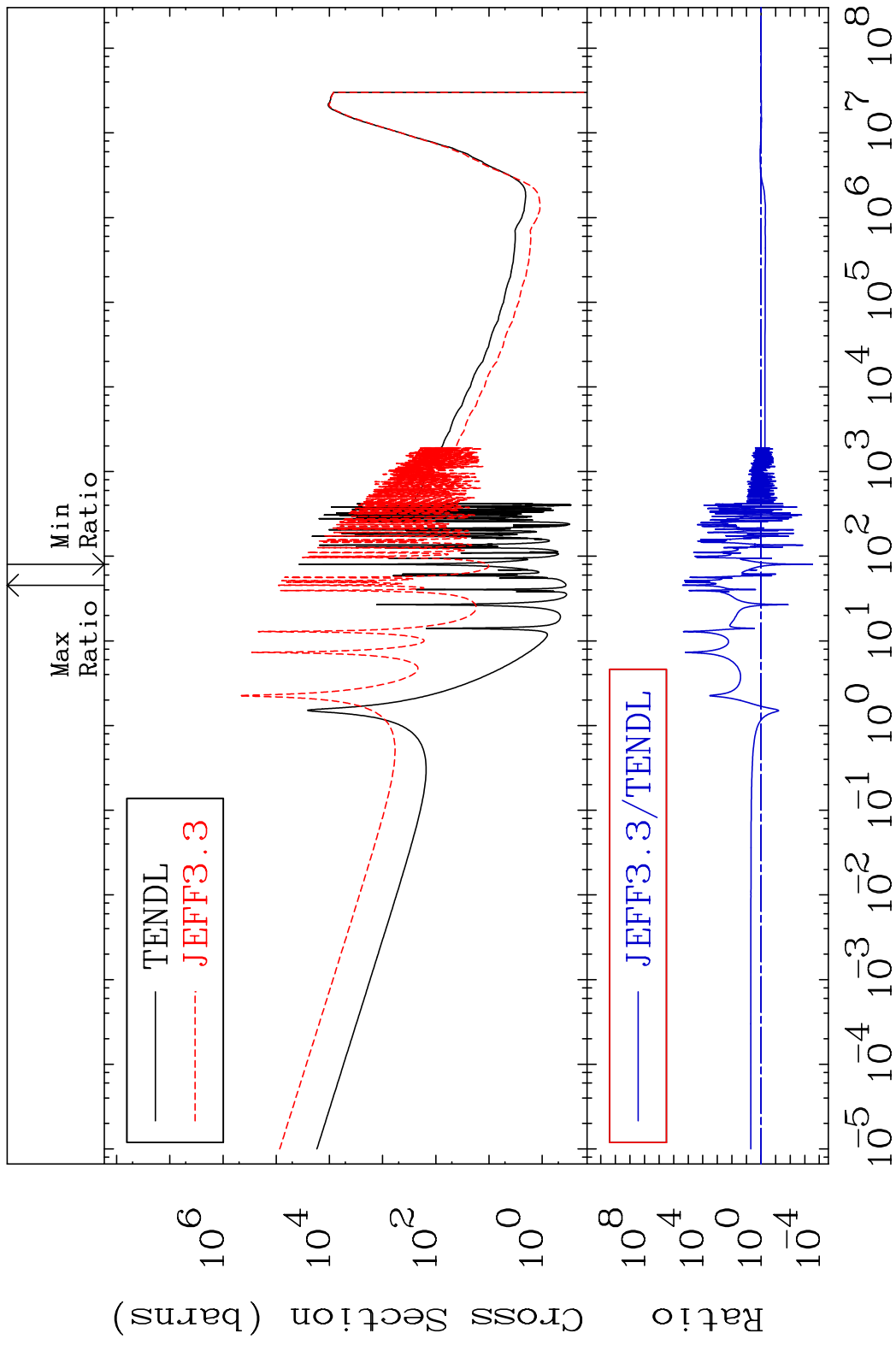


64

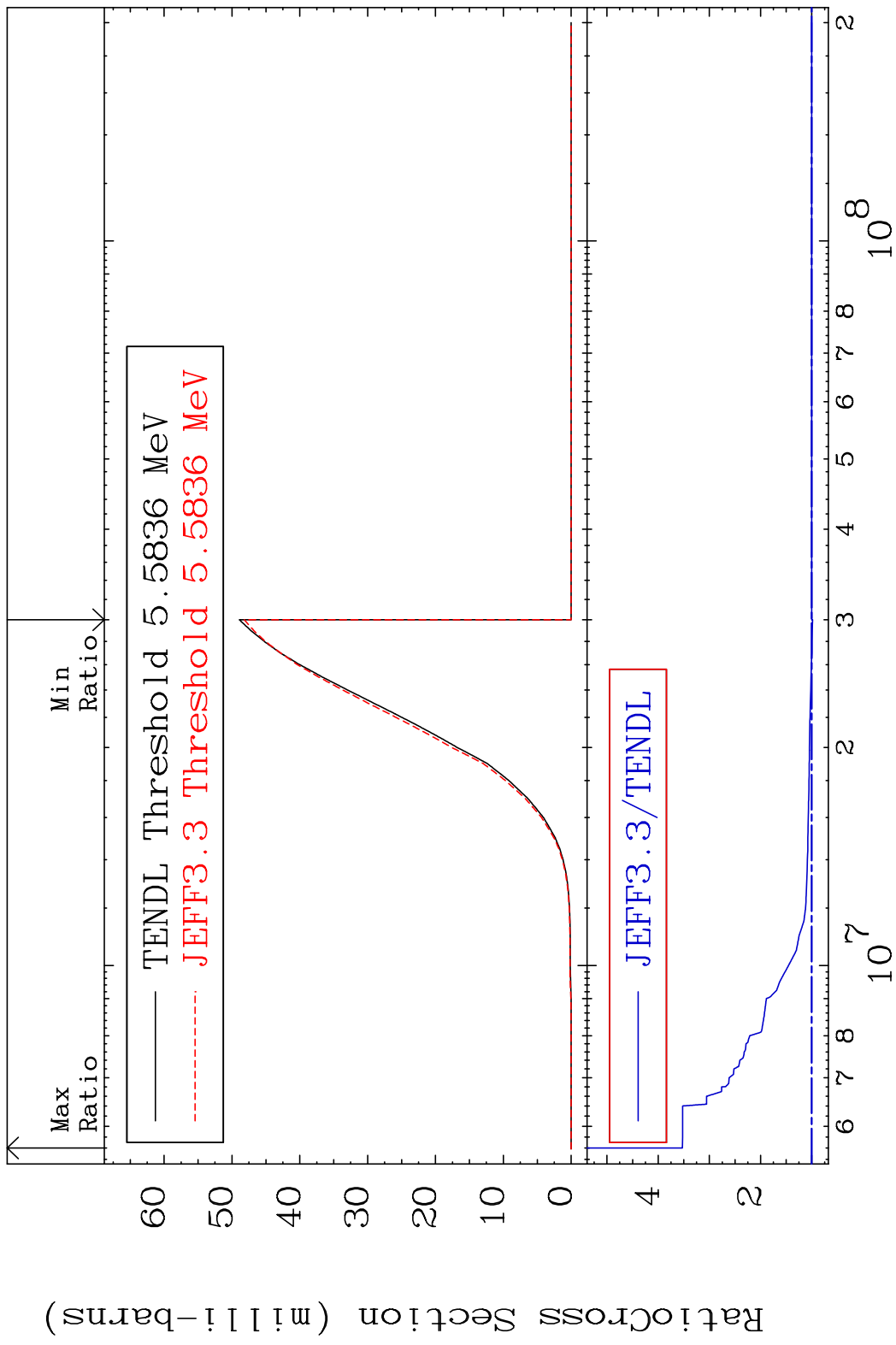
Incident Energy (eV)

57-La-137

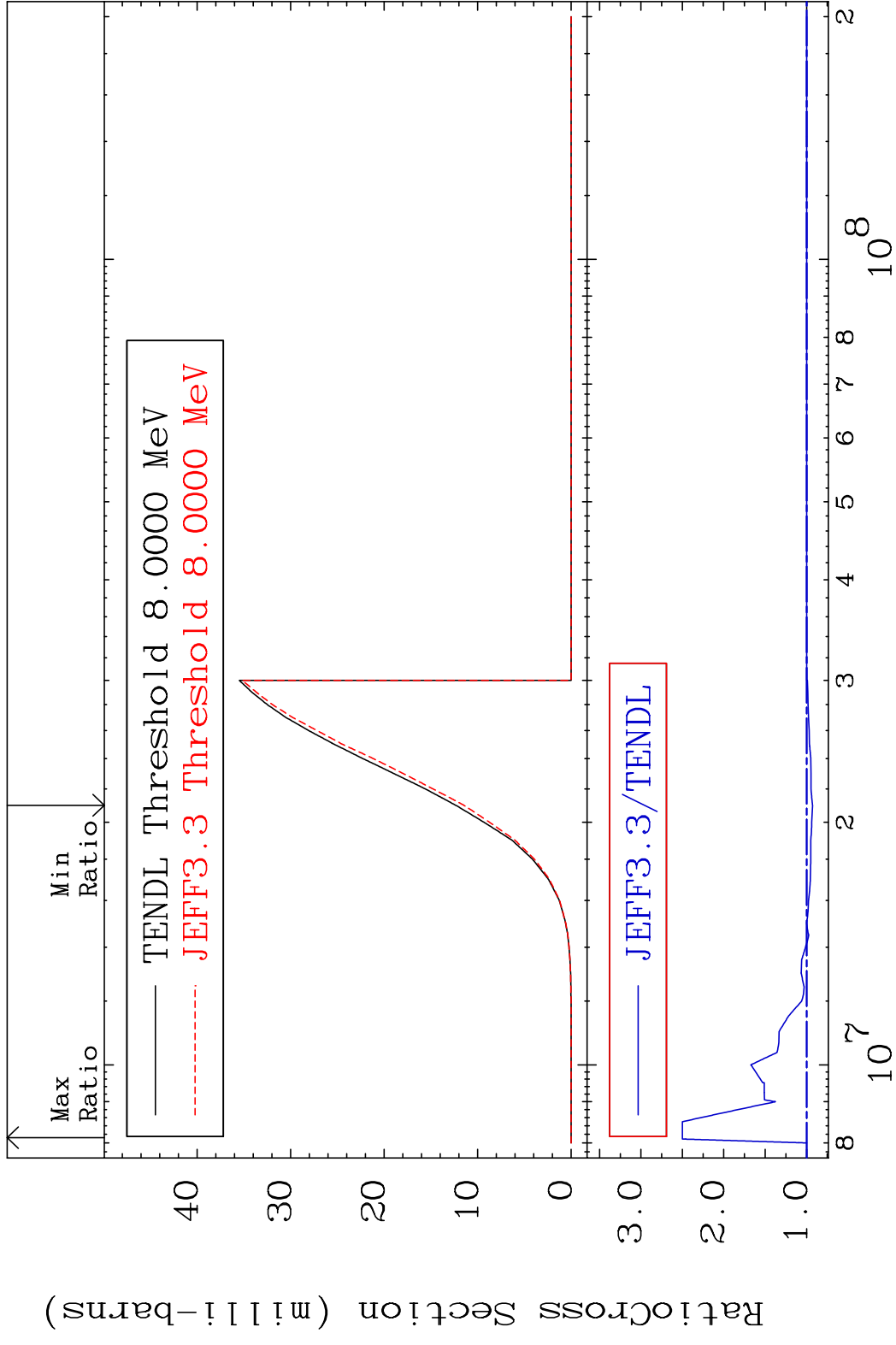
MAT 5722 Dpa disappearance (mt102 -120) 57-La-137
 Cross Section -99.97 To 9999. %



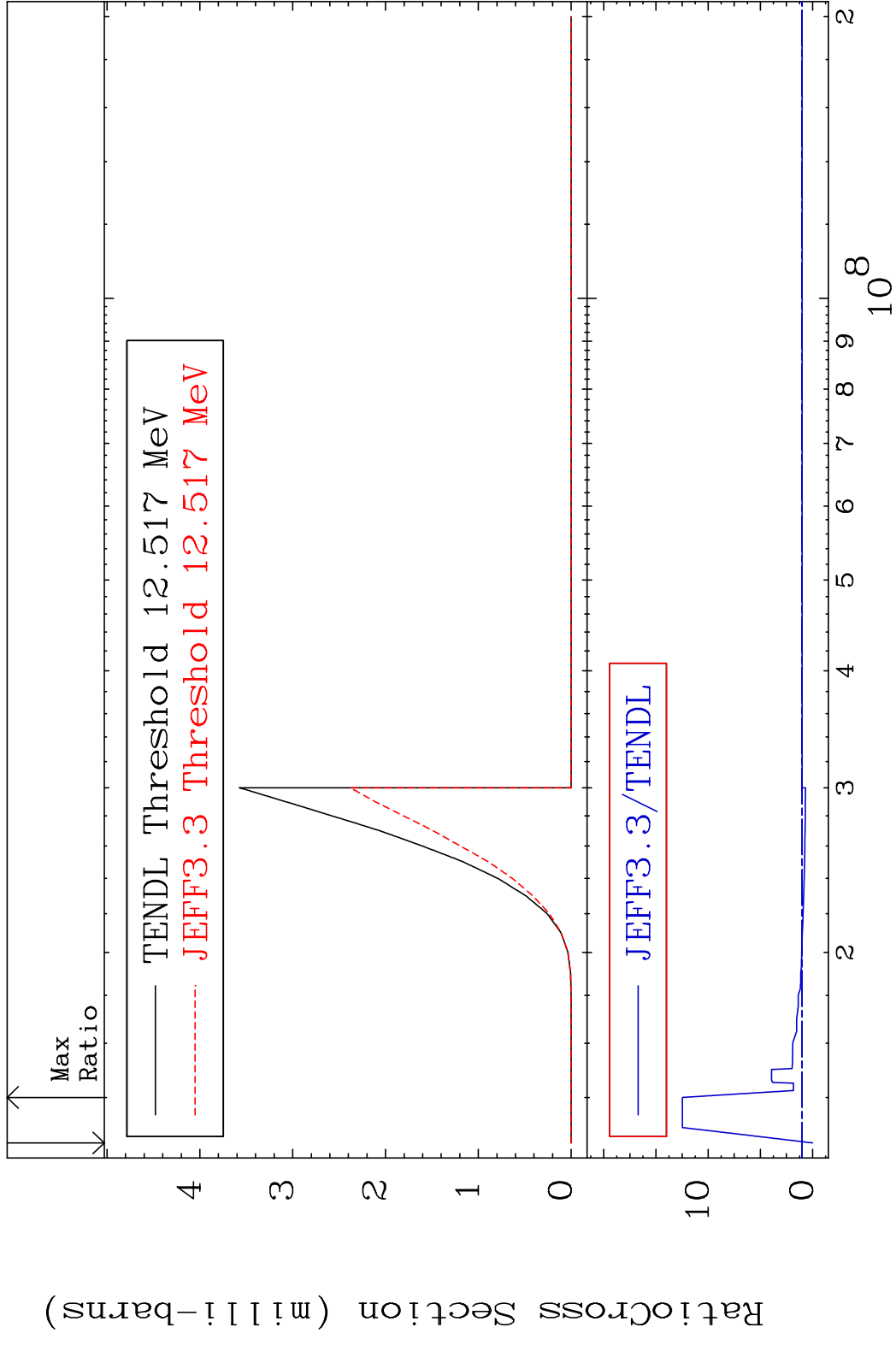
65 Incident Energy (eV) 57-La-137



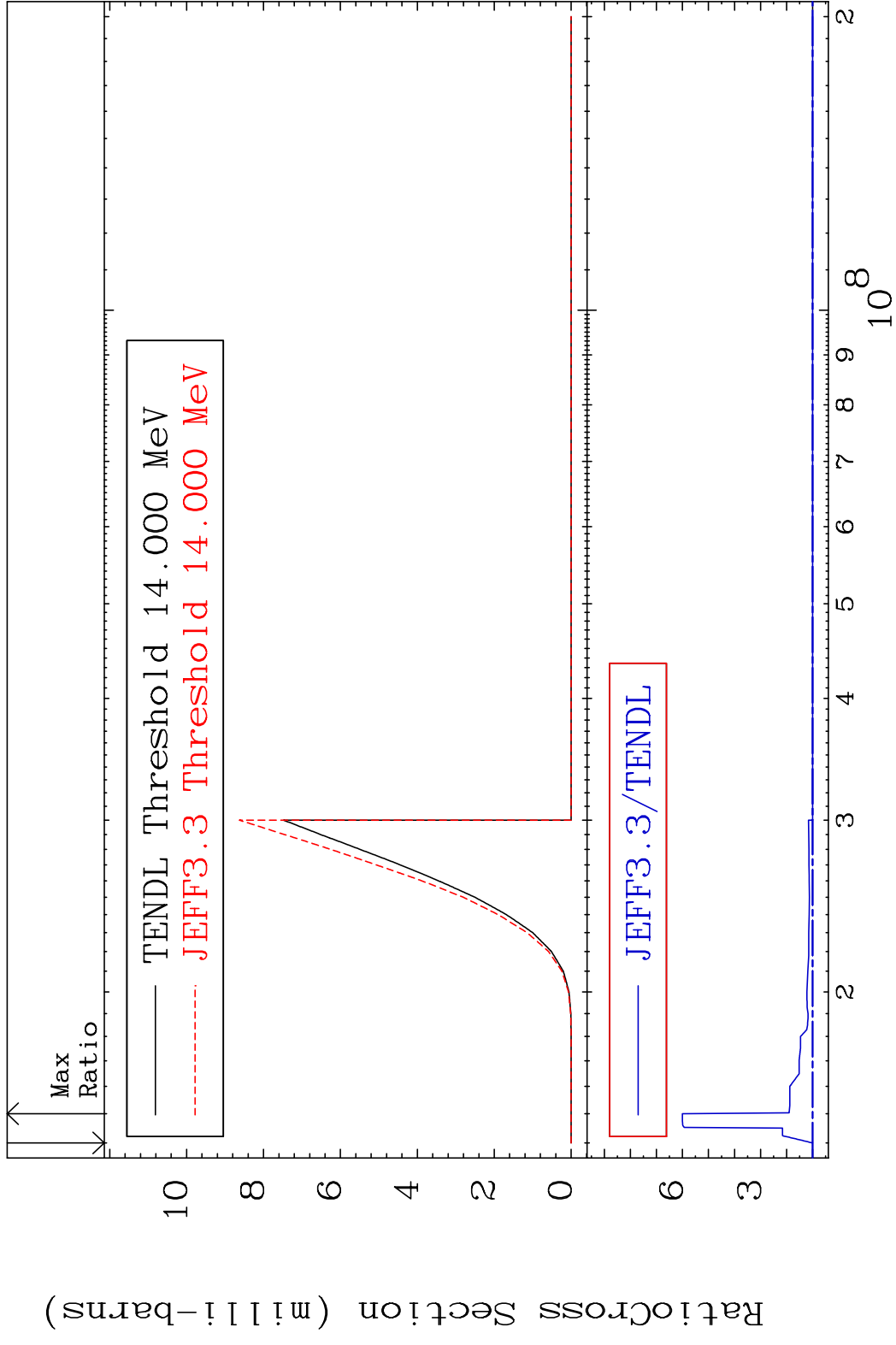
MAT 5722 (n, n') p:56-Ba-136m5 57-La-137
 Radionuclide Production Cross Section 150.0 %

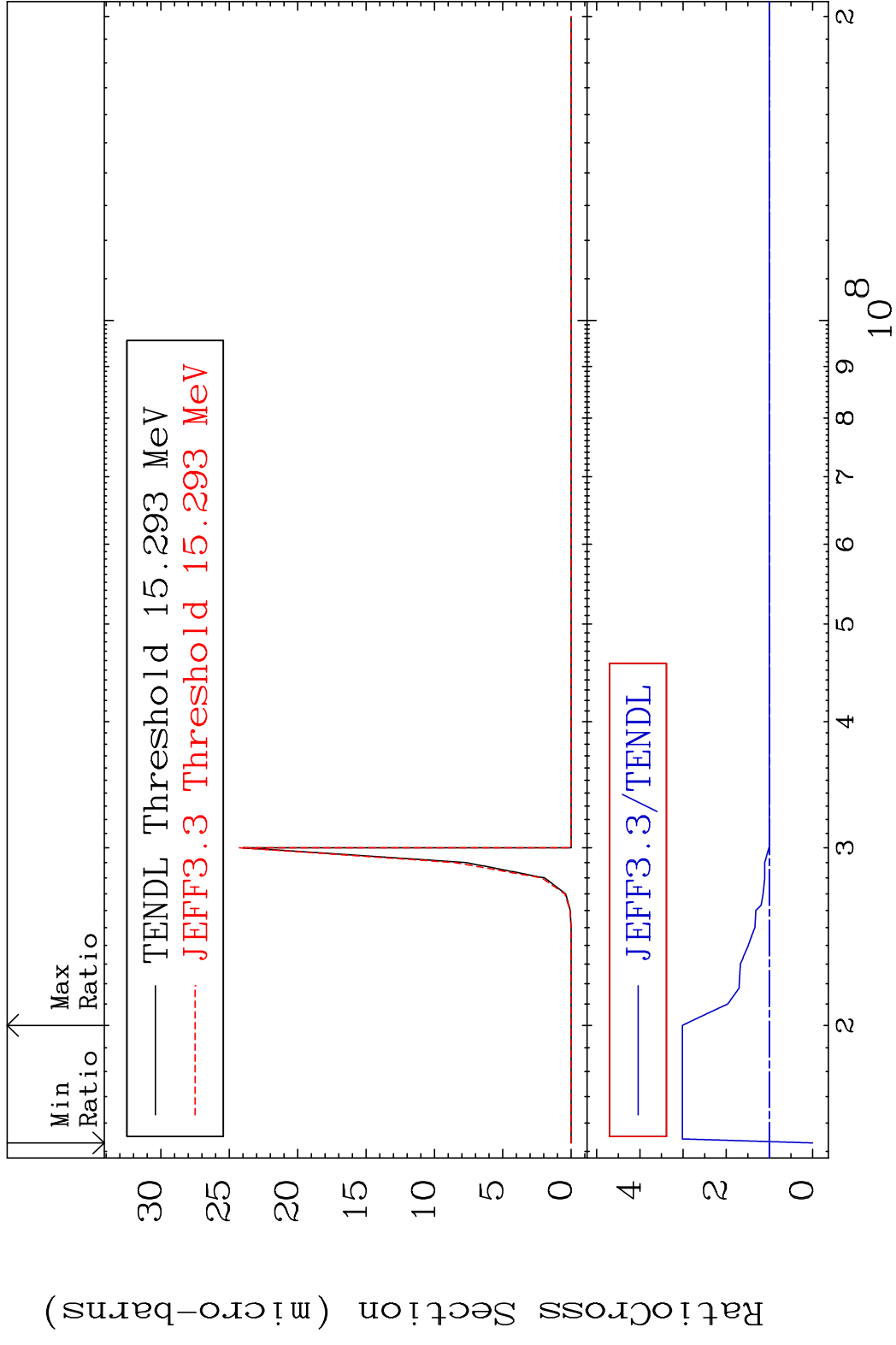


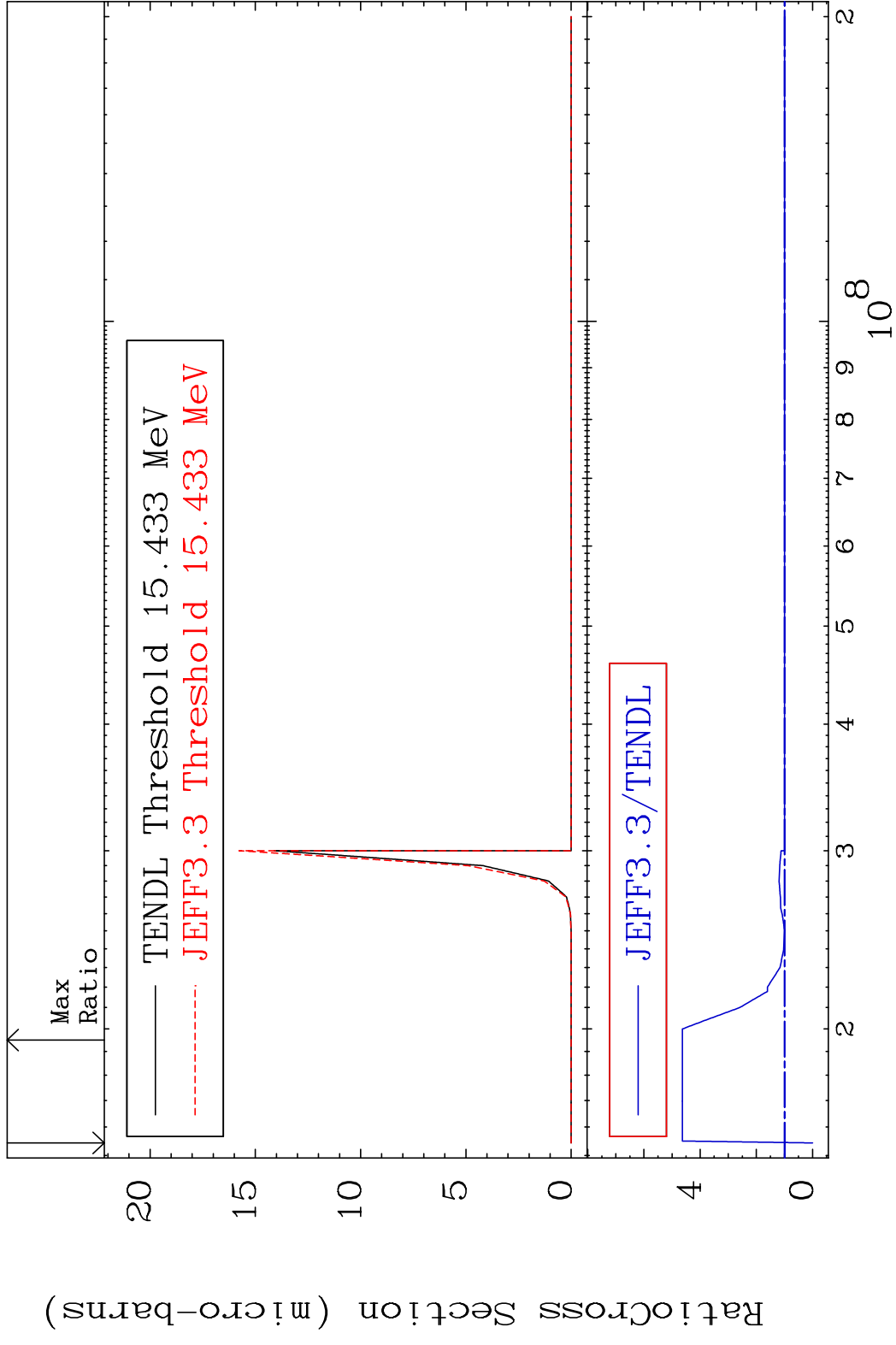
MAT 5722 (n, n') d:56-Ba-135g 57-La-137
 Radionuclide Production Cross Section Ratio 1147. %

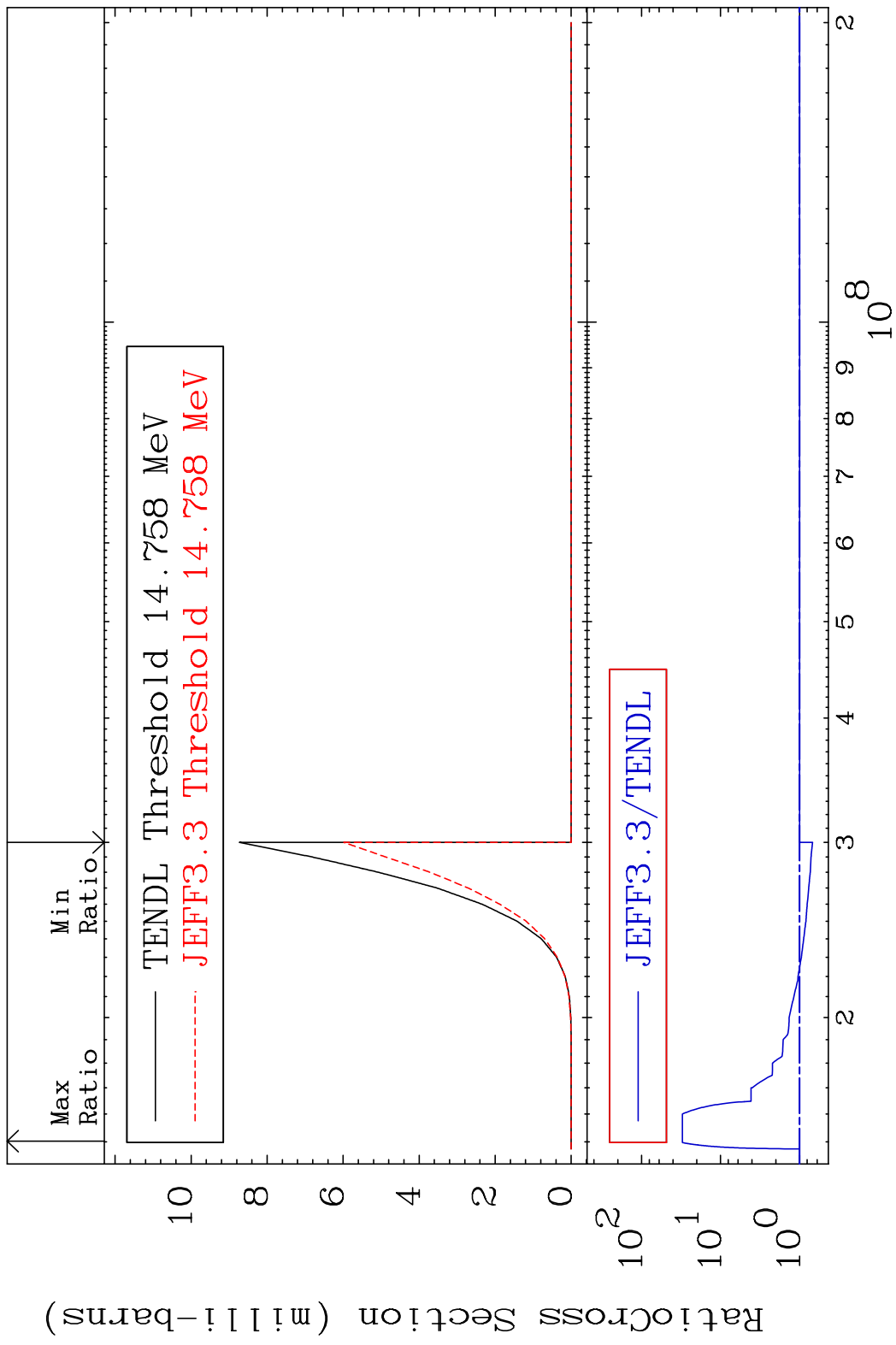


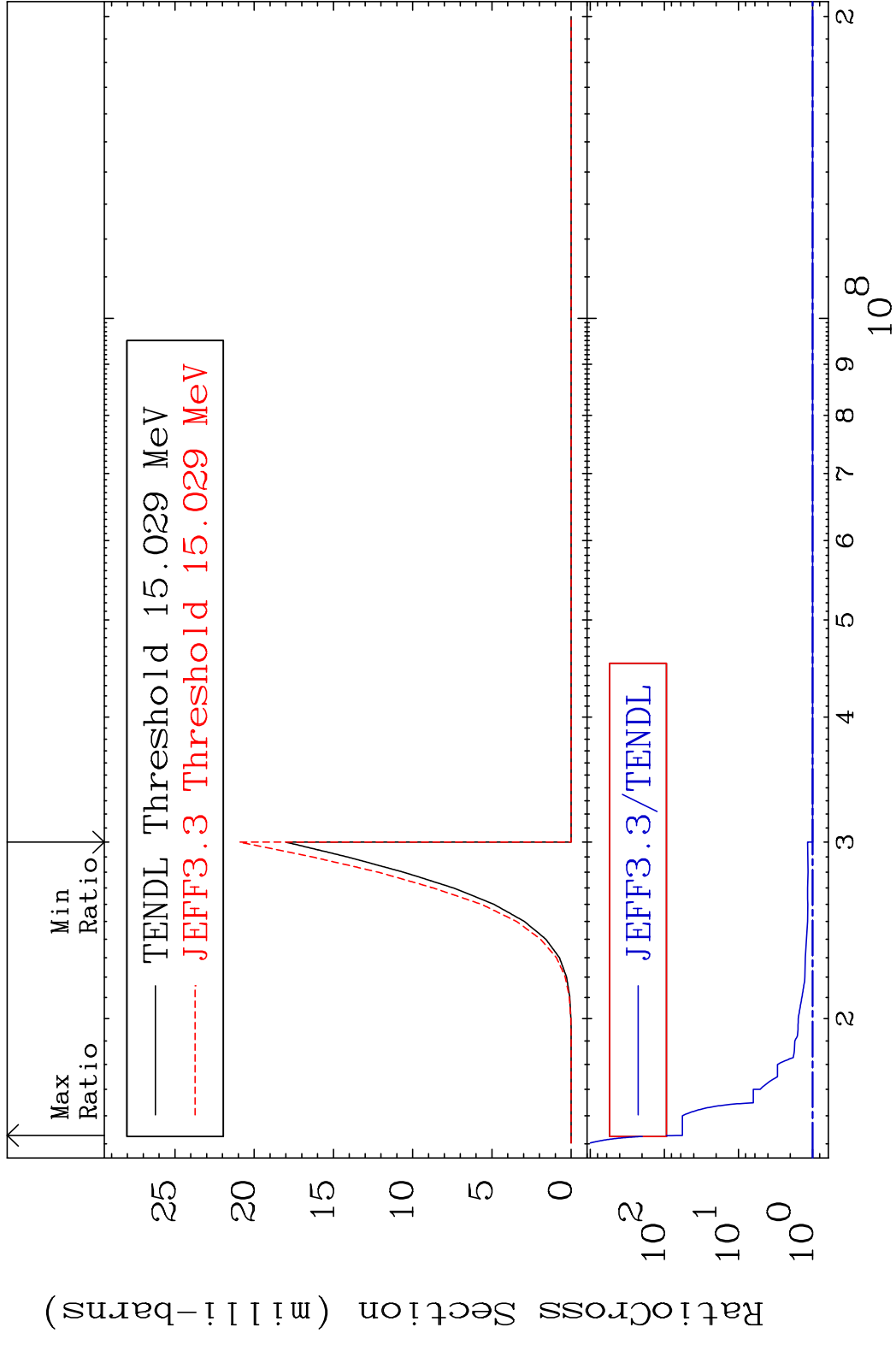
MAT 5722 (n, n') d:56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section 500.5 %

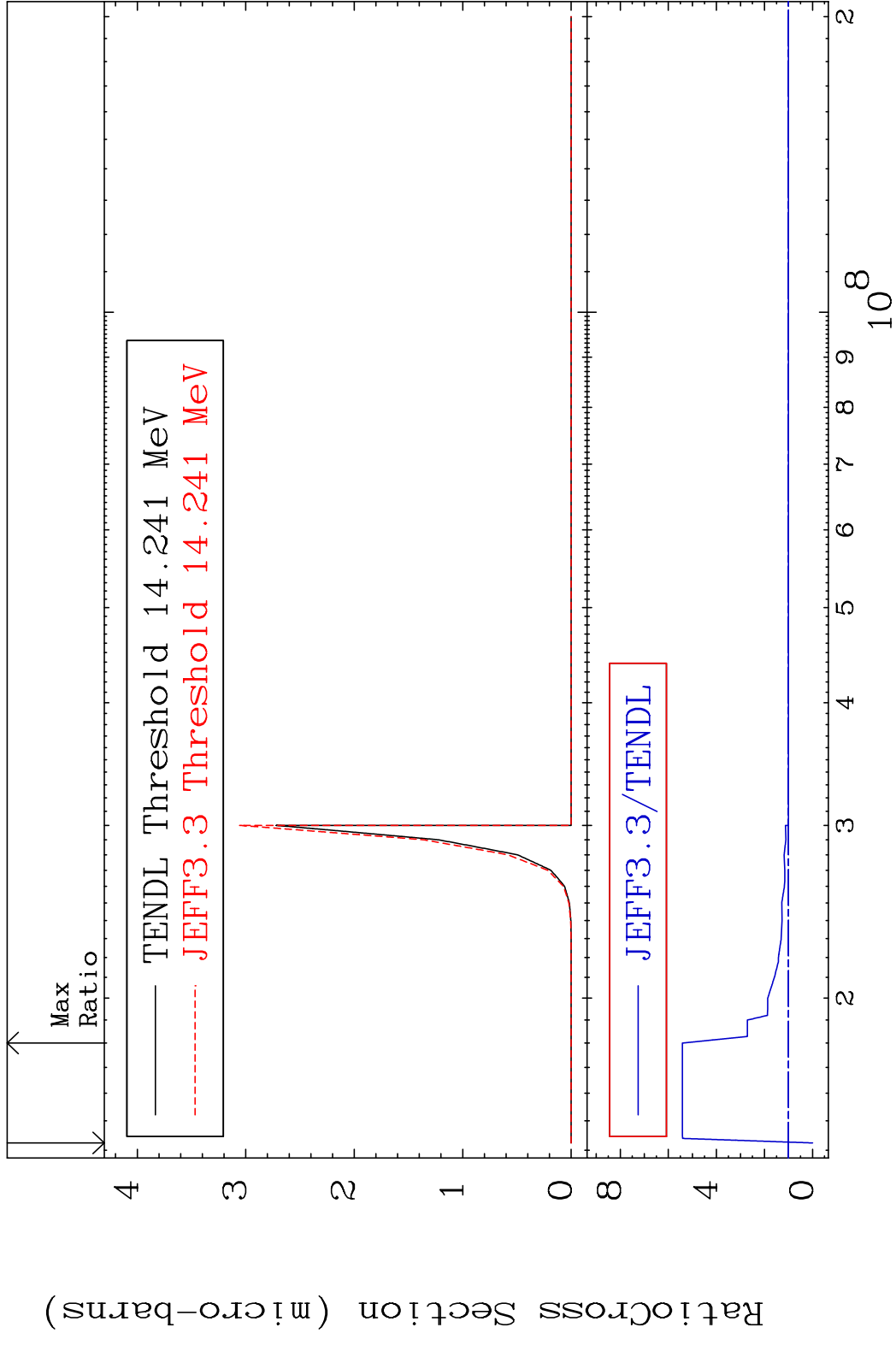


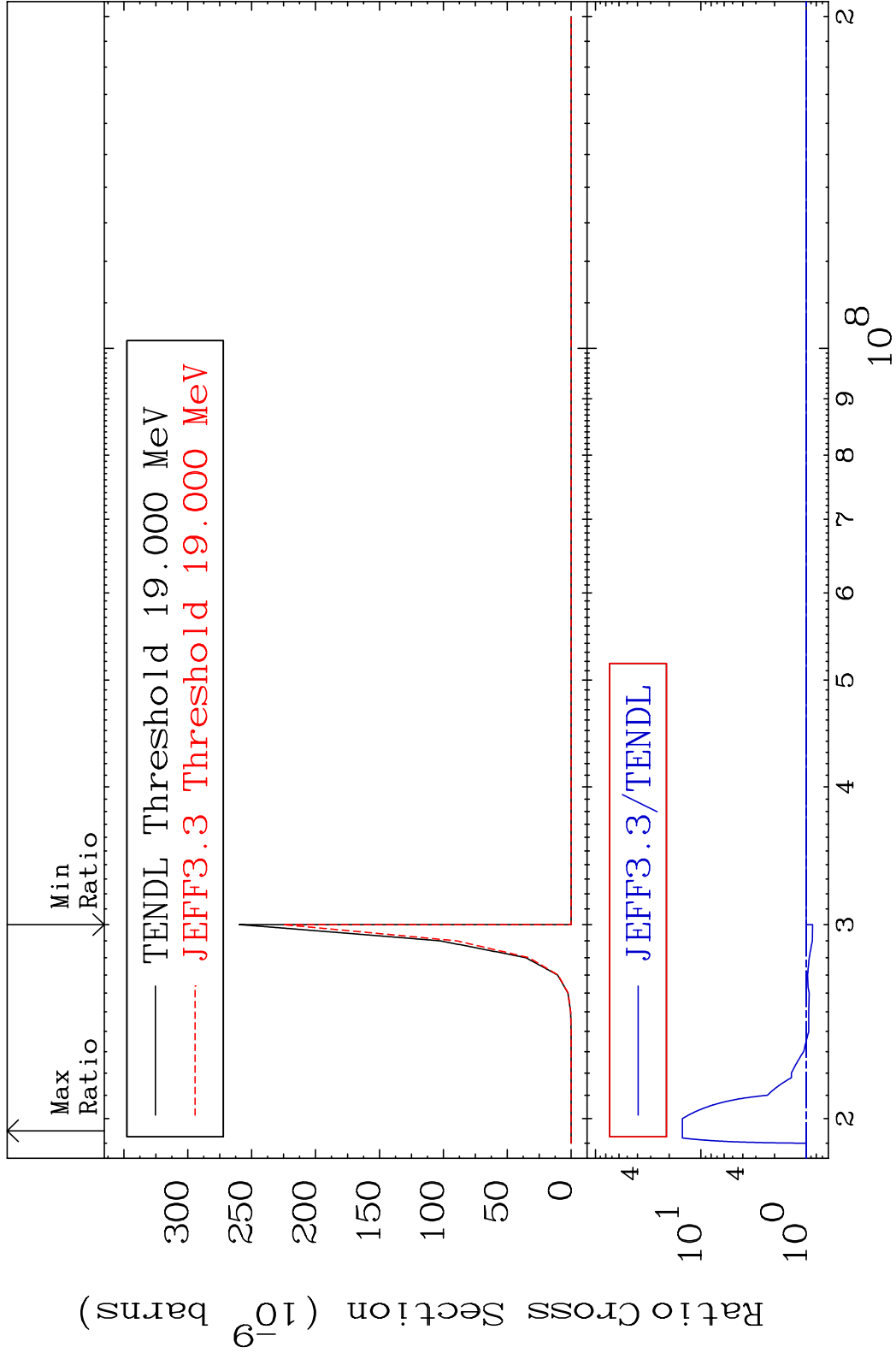


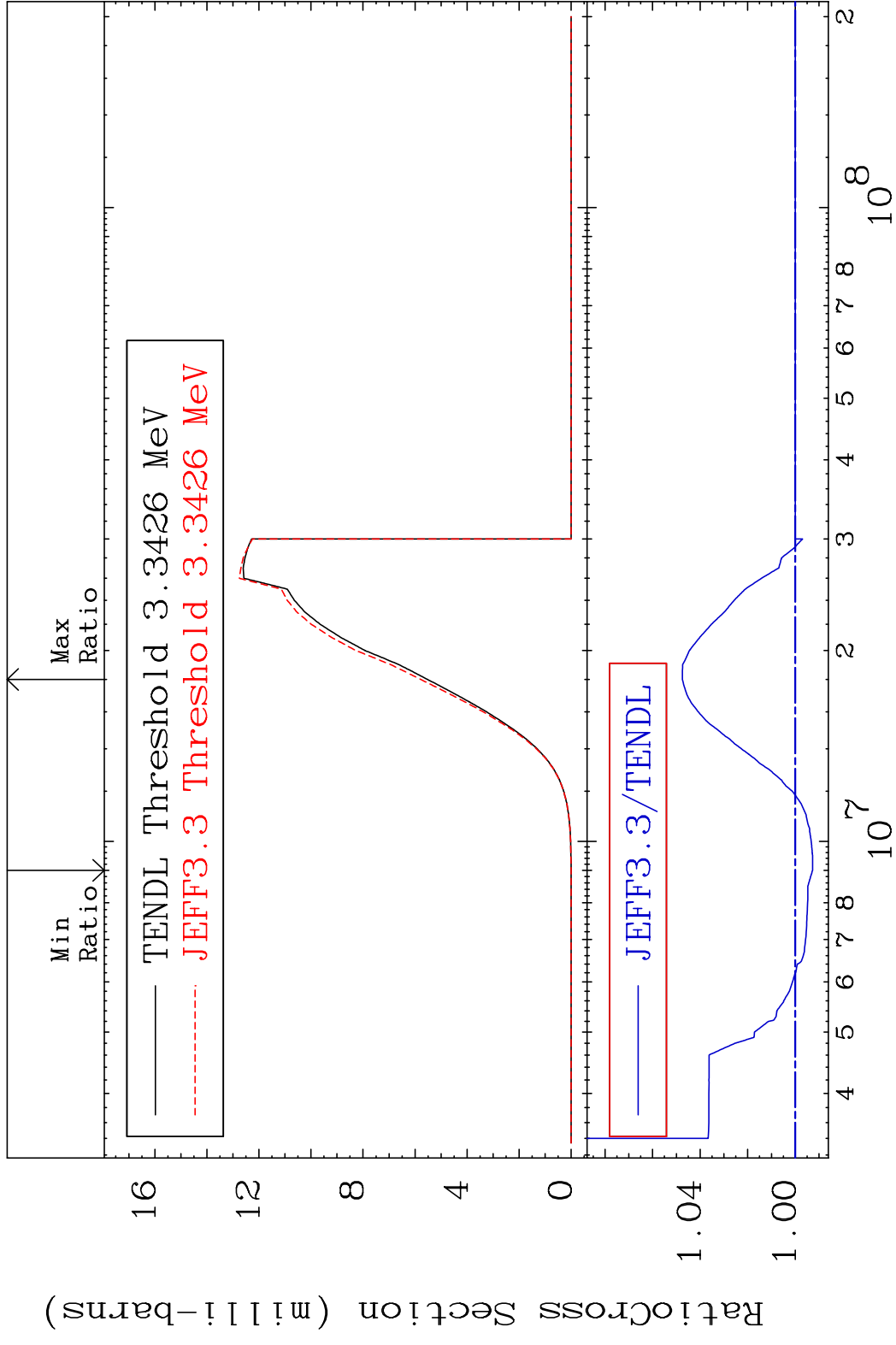


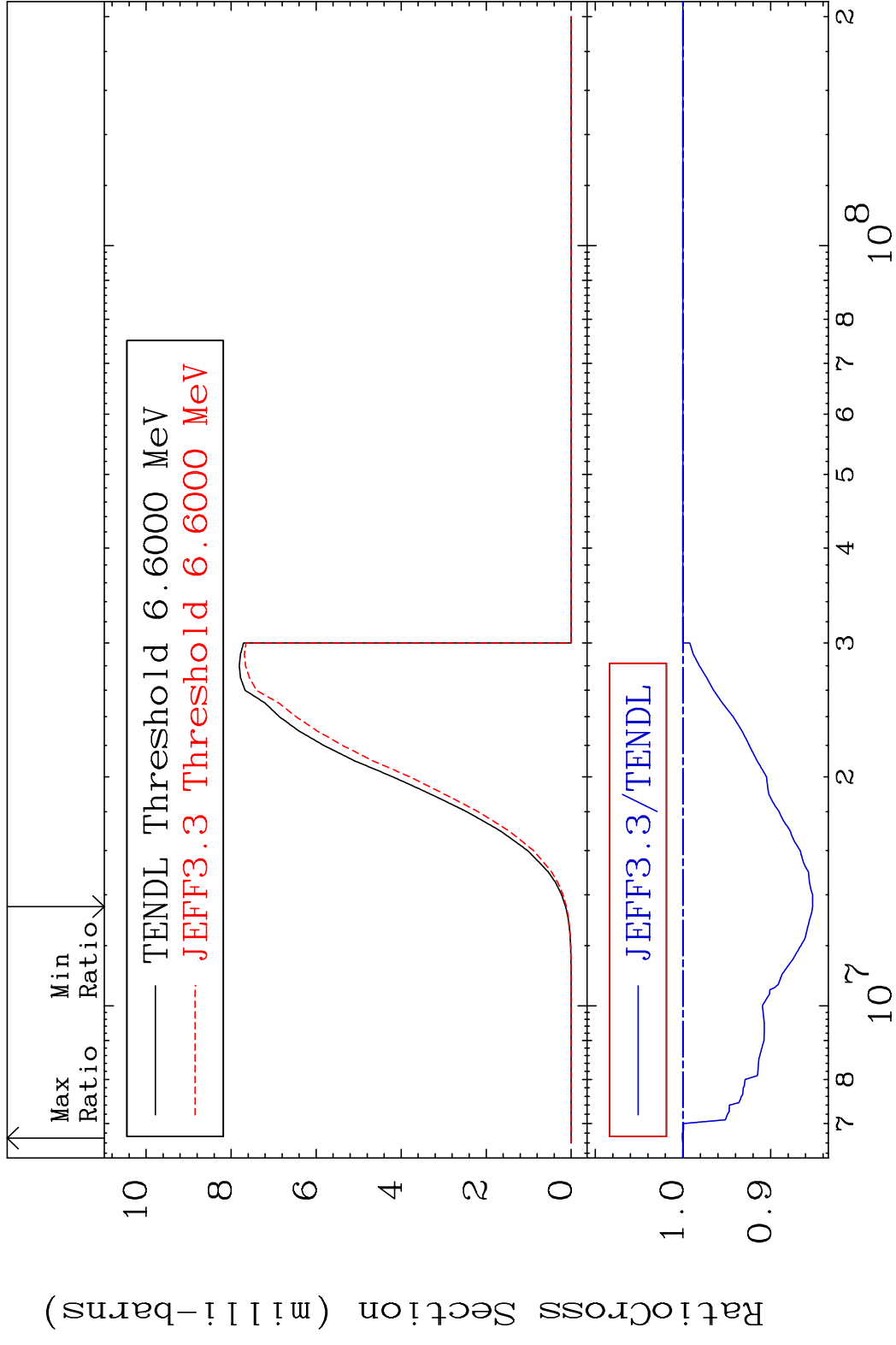


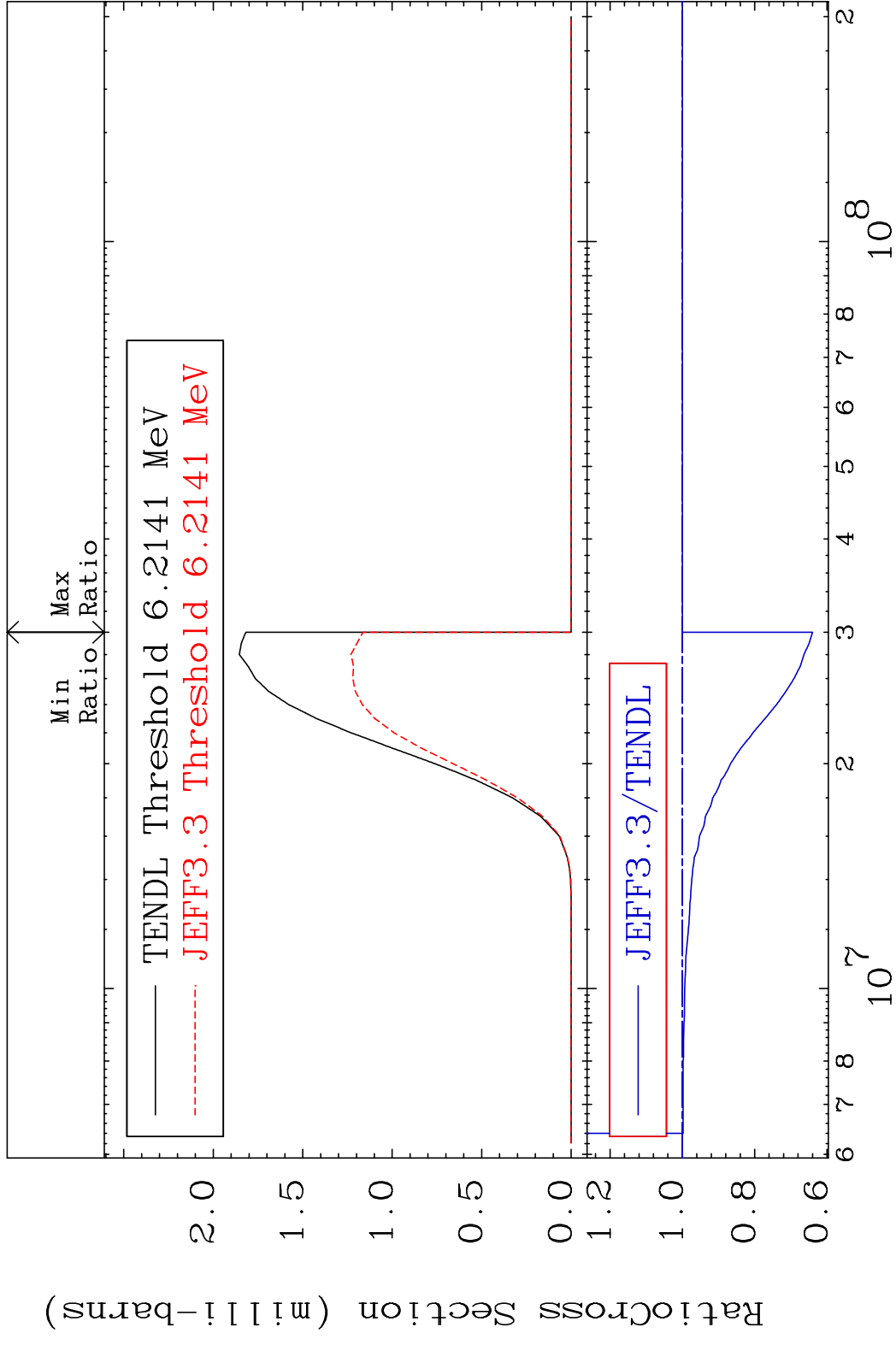




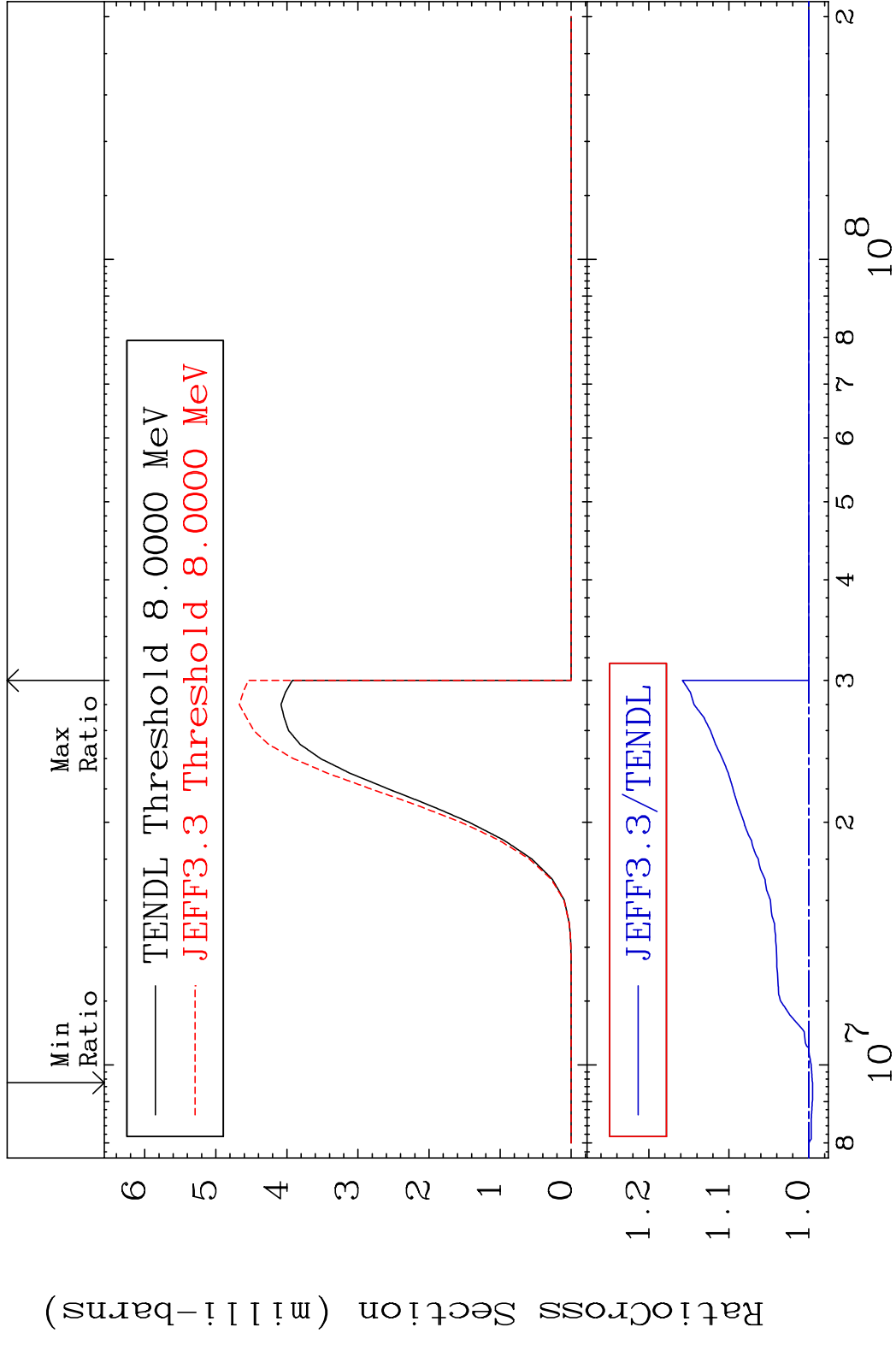




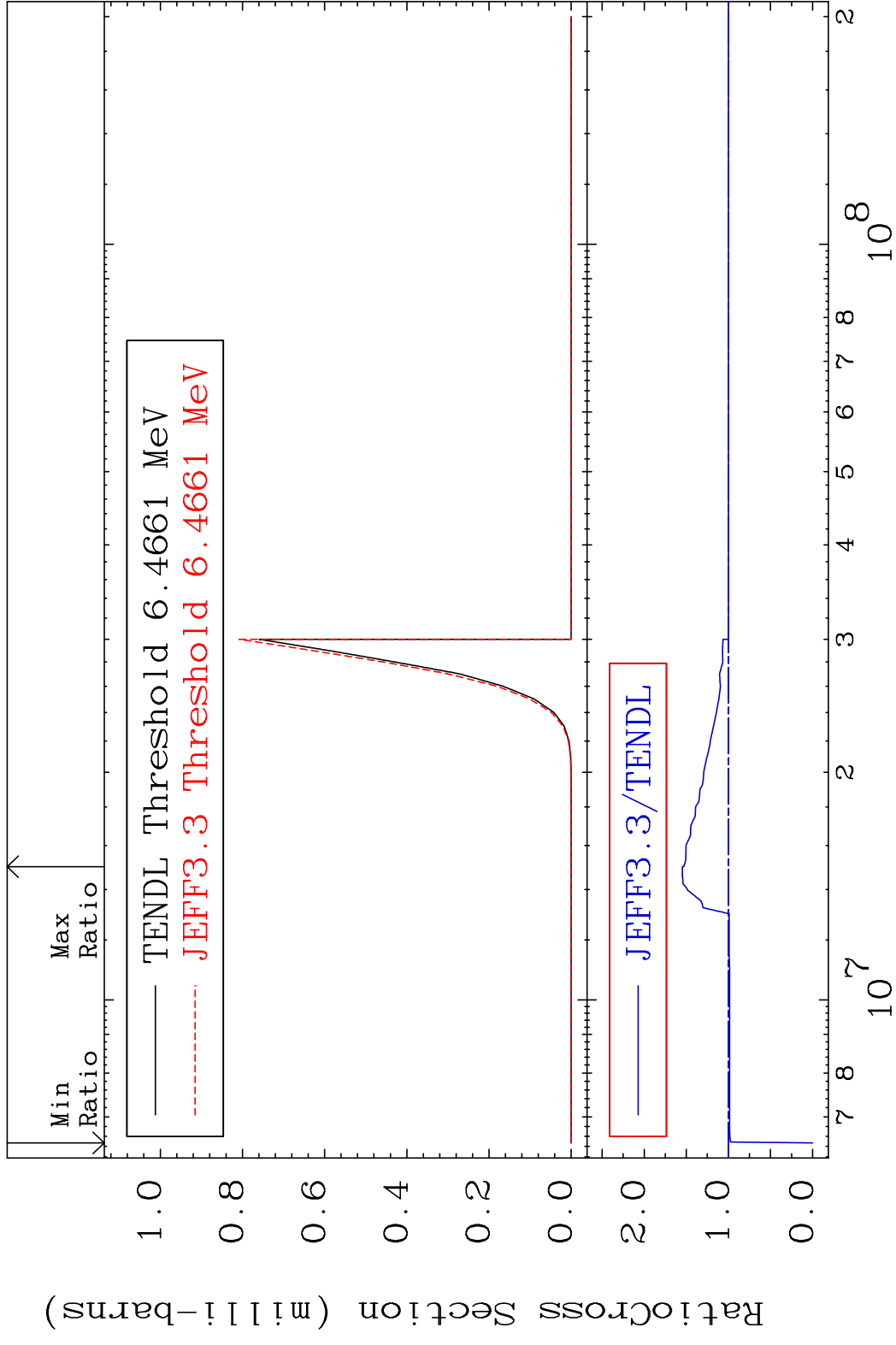


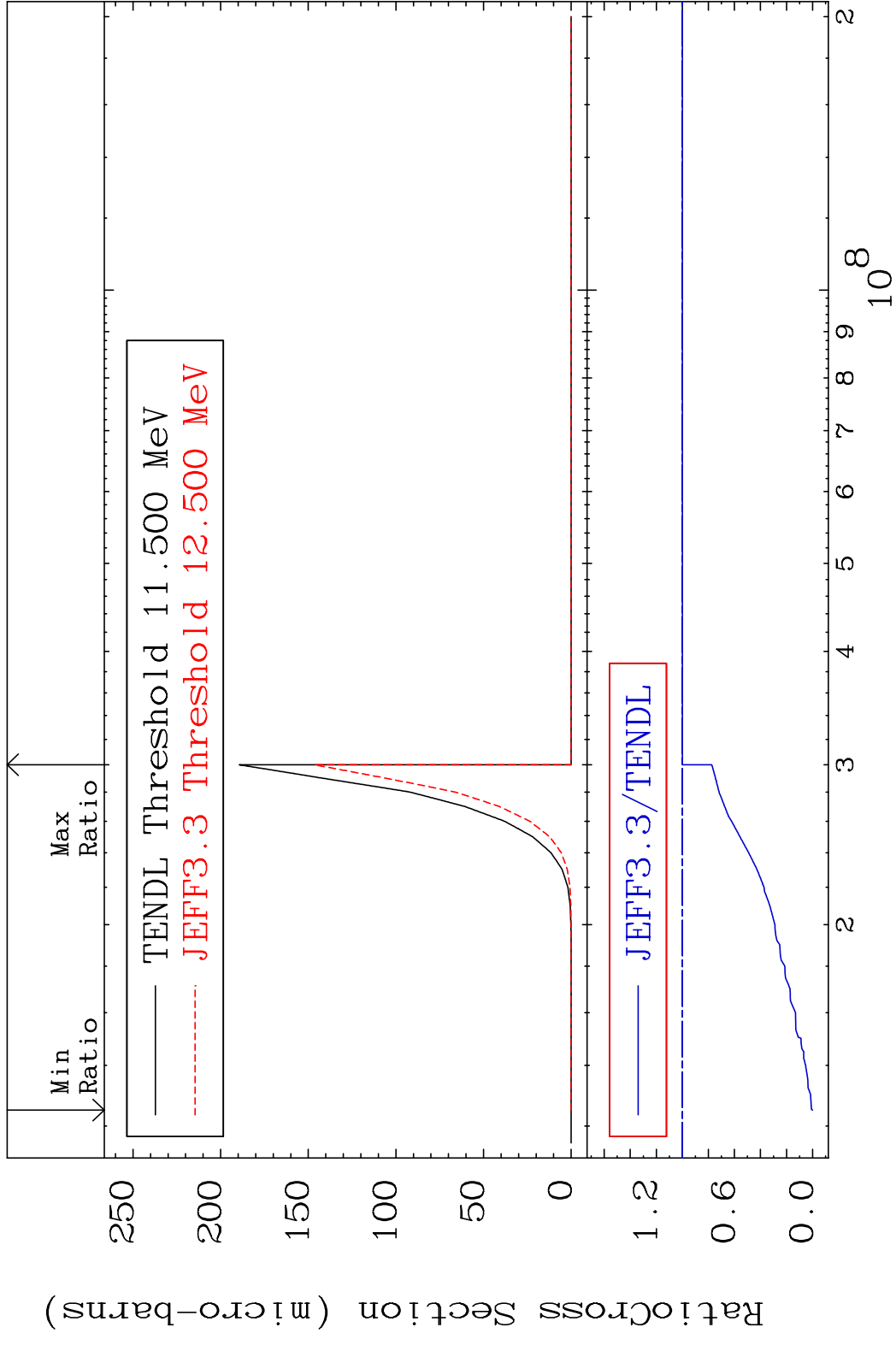


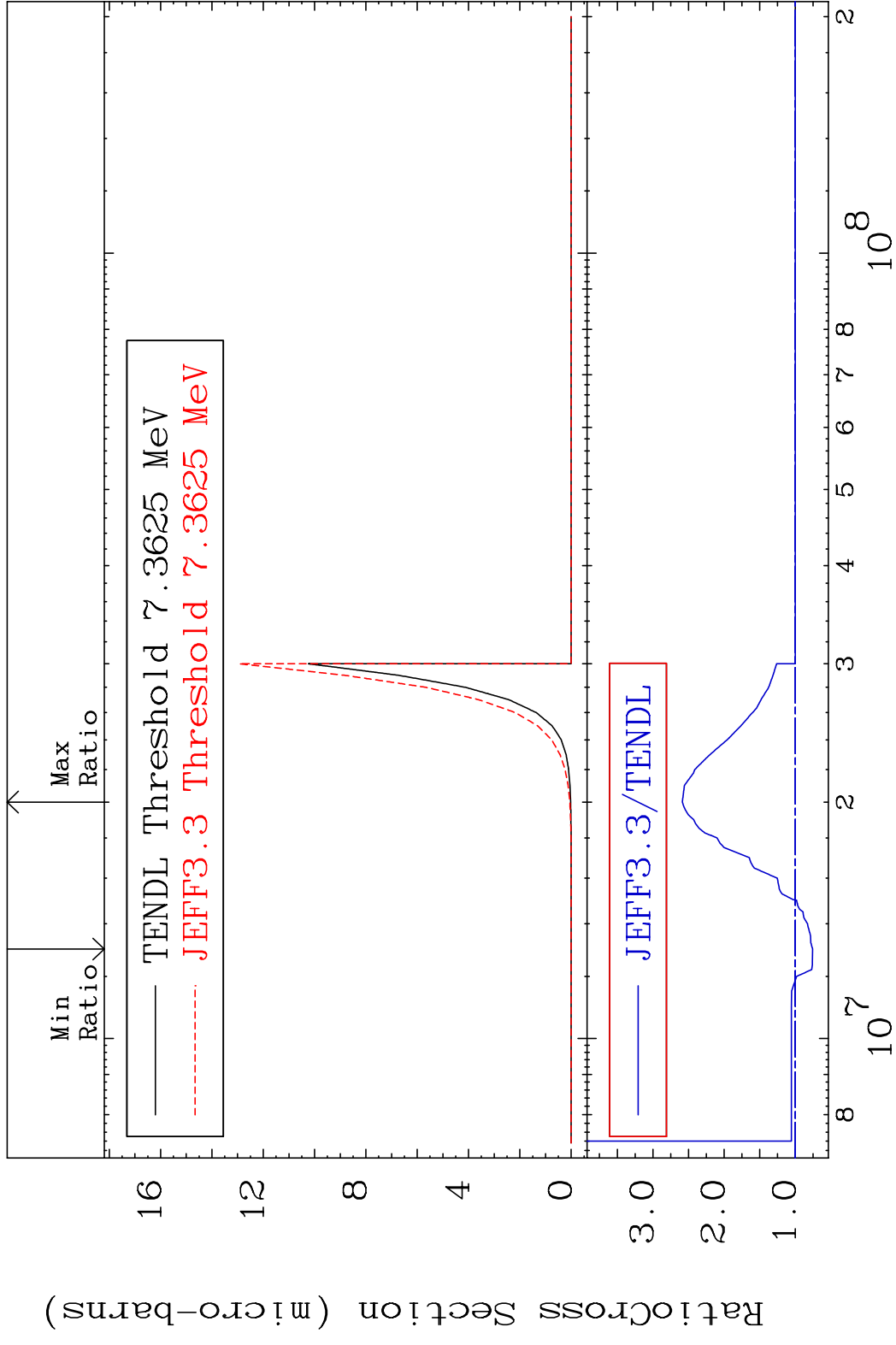
MAT 5722 (n, t):56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section 15.82 %



MAT 5722 (n, He-3) : 55-Cs-135g 57-La-137
 Radionuclide Production Cross Section Ratio 54.69 %







MAT 5722 (n, p) α :54-Xe-133g 57-La-137
 Radionuclide Production Cross Section to 9999. %

