

Program Complot
(Version 2021-1)

by

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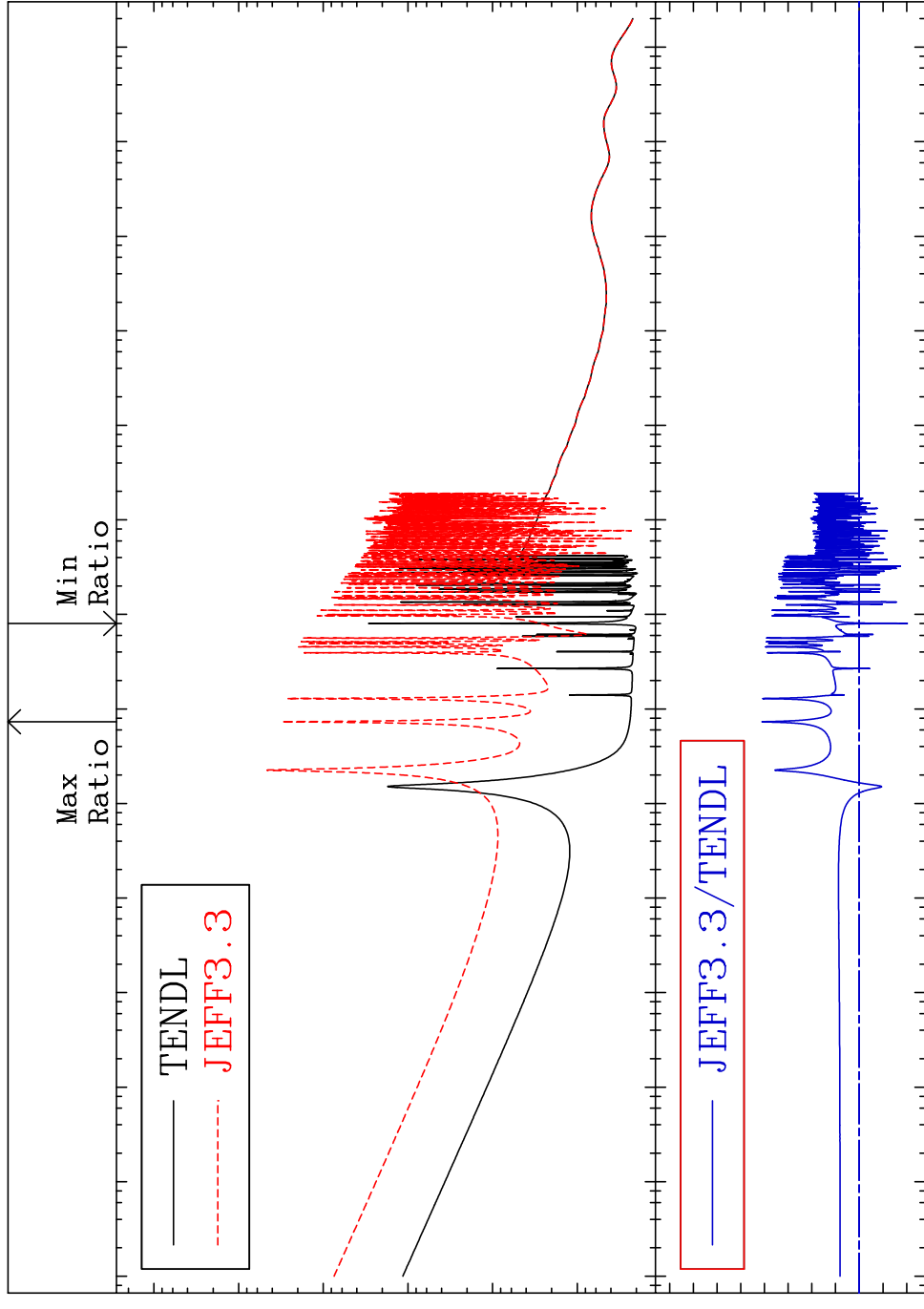
Press Mouse Button to Start

MAT 5722

57-La-137

Total

Cross Section -99.05 To 9999. %



Cross Section (barns)

Incident Energy (eV)

1

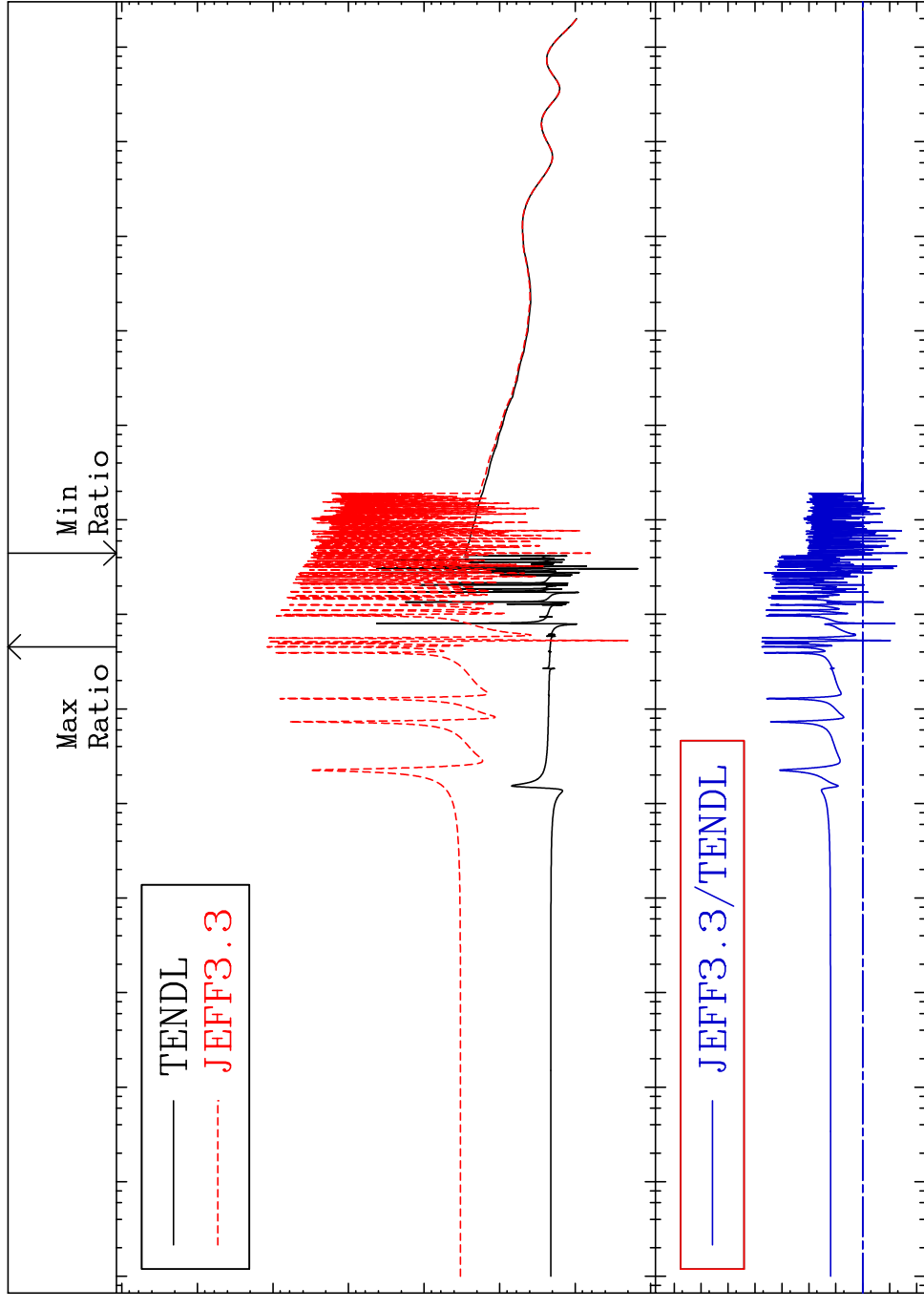
57-La-137

MAT 5722

Elastic

57-La-137

Cross Section -97.76 To 9999. %



10⁵
10⁴
10³
10²
10¹
10⁰
10⁻¹
Cross Section (barns)

10³
10⁰
Ratio

10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸
Incident Energy (eV)

2

57-La-137

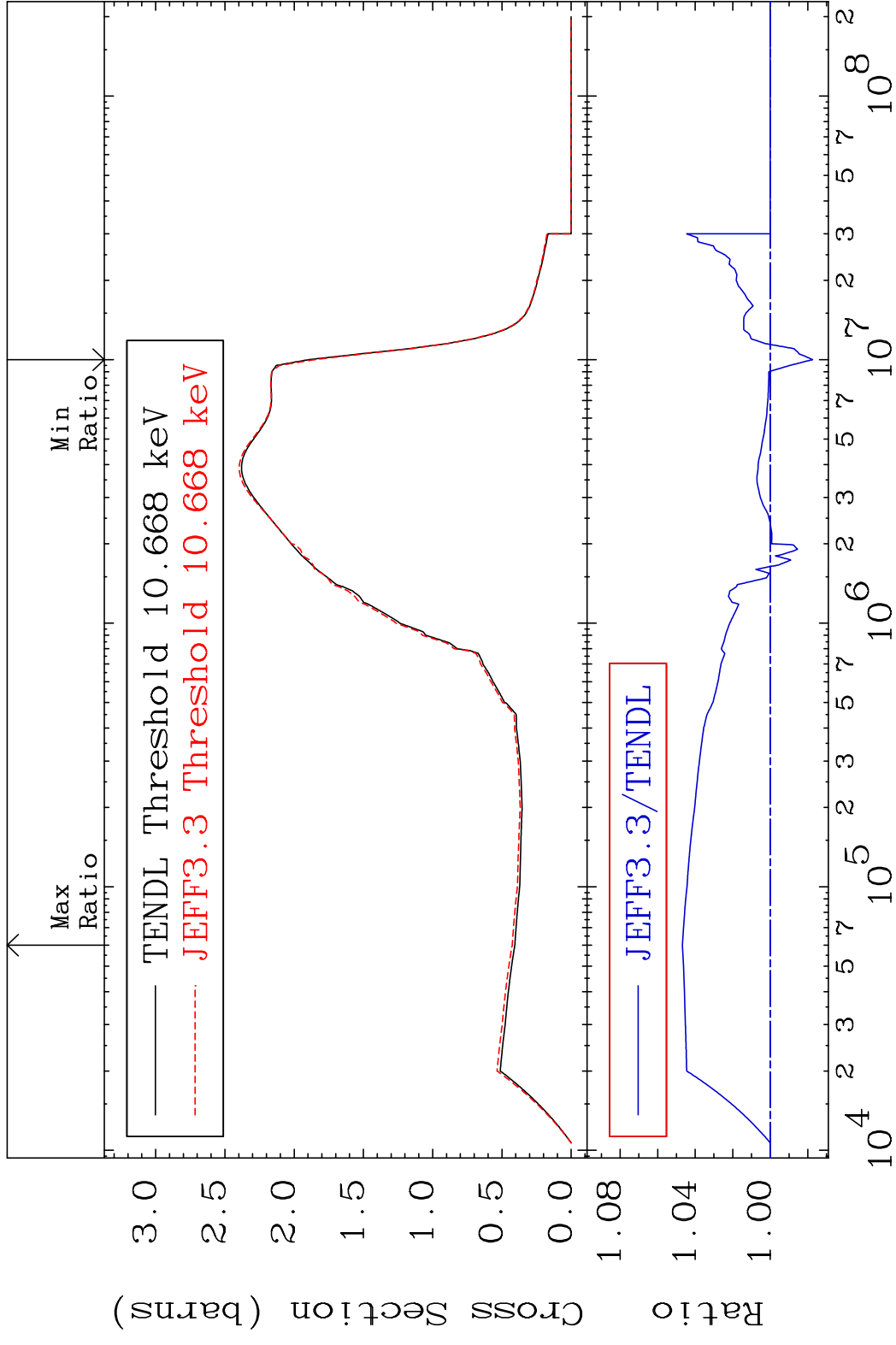
MAT 5722

Inelastic

57-La-137

Cross Section

-2.252 To 4.684 %



Incident Energy (eV)

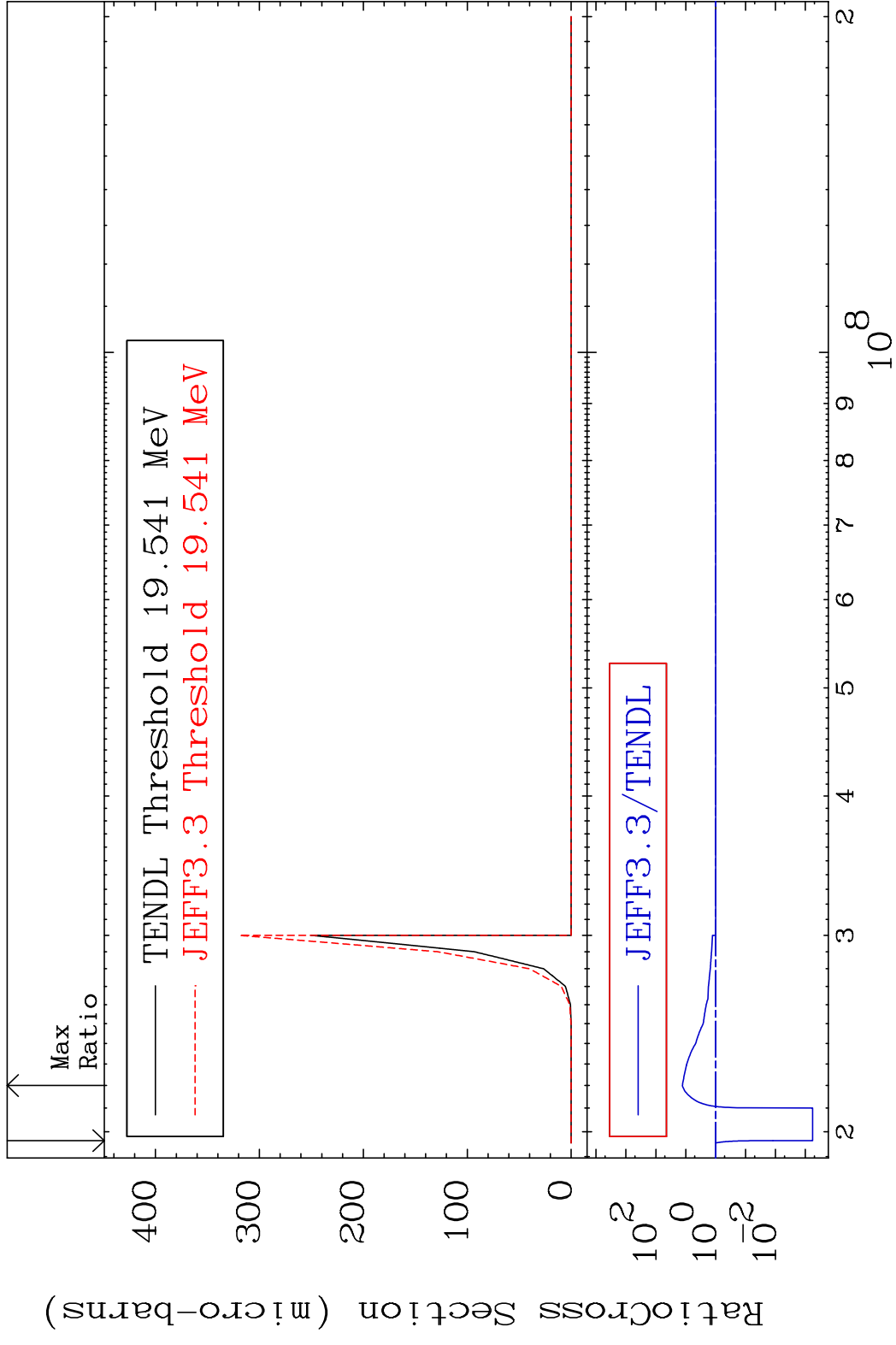
57-La-137

MAT 5722

(n,2n) d

57-La-137

Cross Section -99.94 To 1198. %

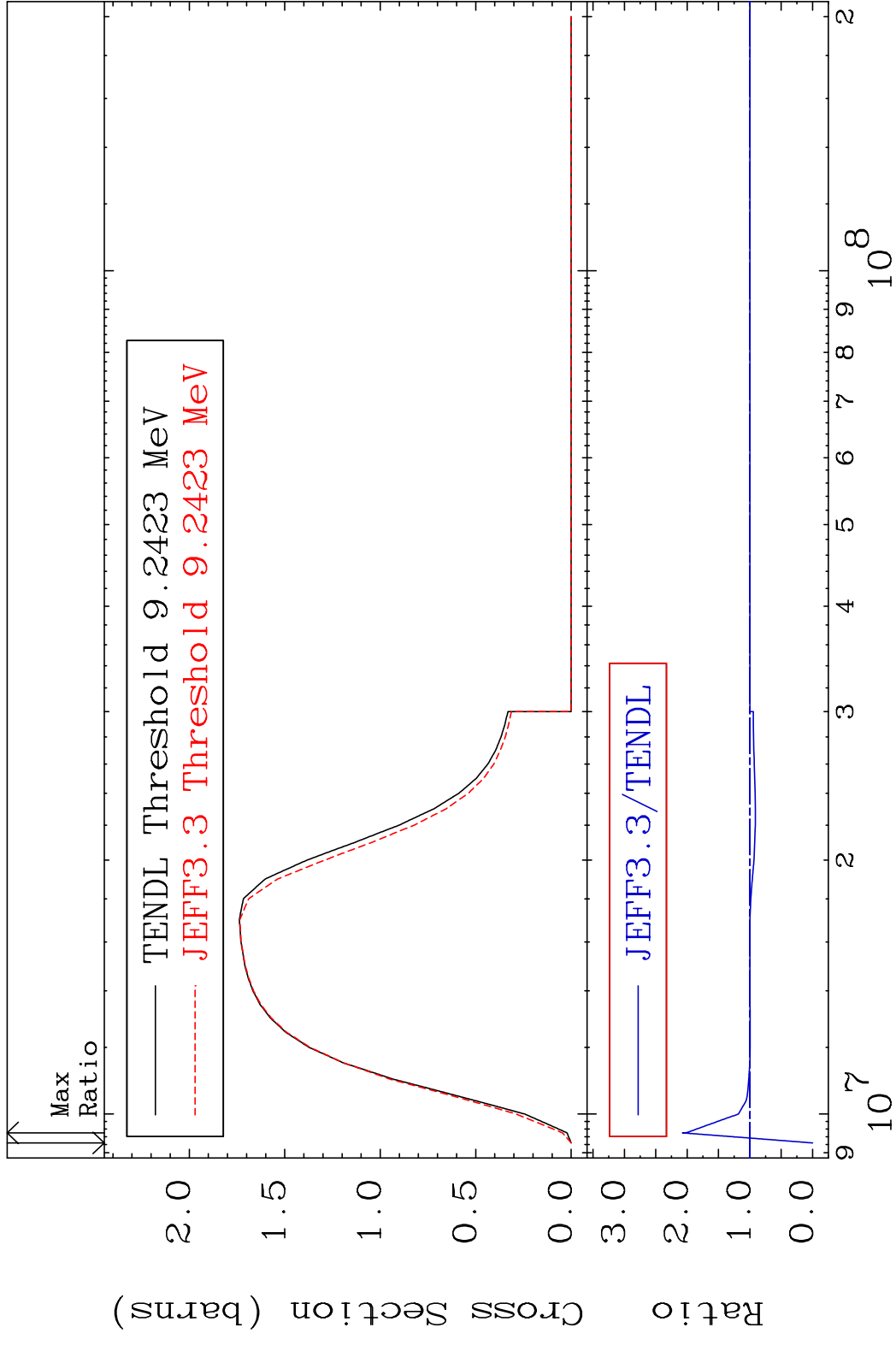


MAT 5722

(n,2n)

57-La-137

Cross Section -100.0 To 107.6 %



5

Incident Energy (eV)

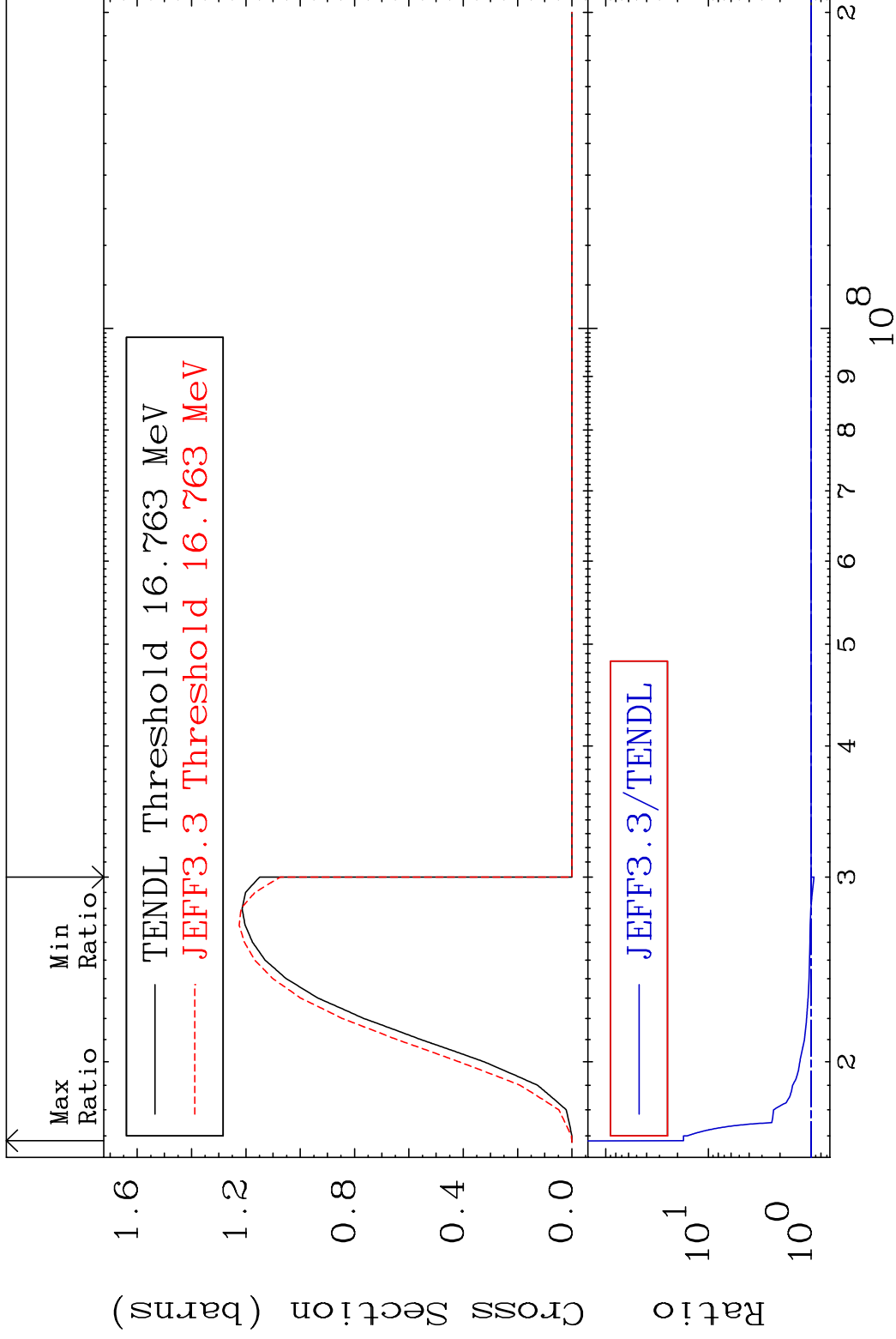
57-La-137

MAT 5722

(n,3n)

57-La-137

Cross Section -6.590 To 1651. %



6

Incident Energy (eV)

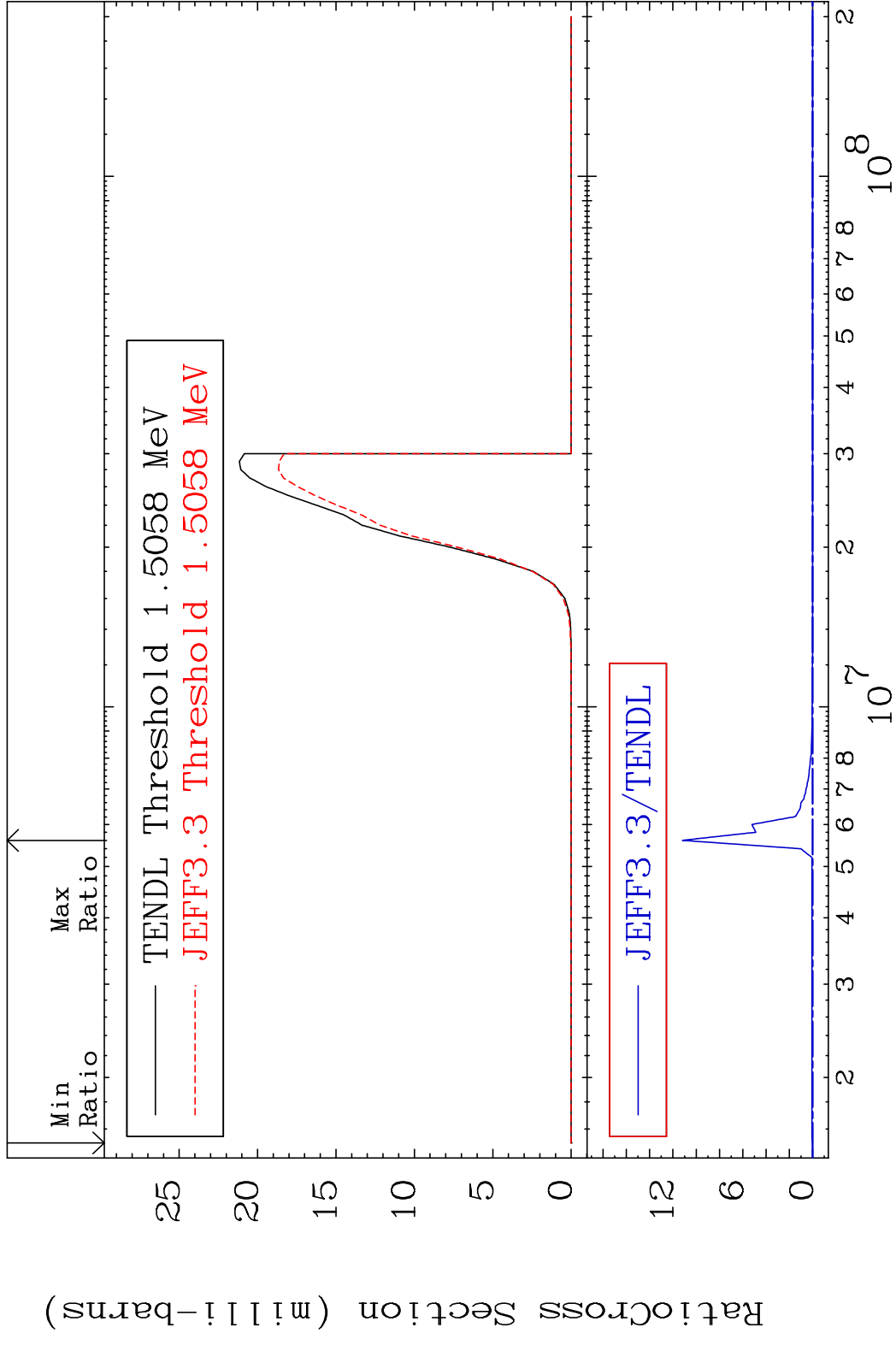
57-La-137

MAT 5722

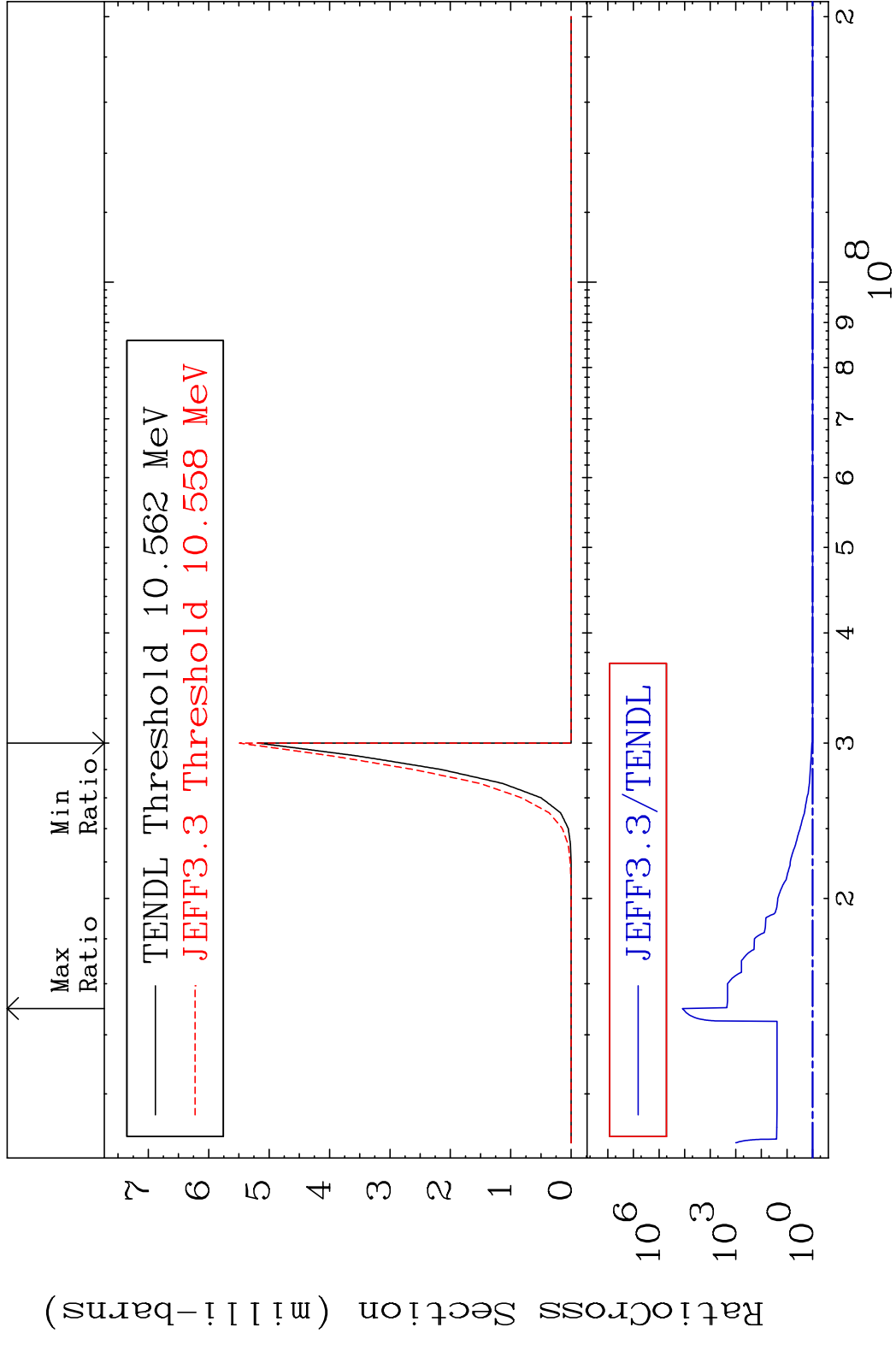
(n, n') α

57-La-137

Cross Section -100.0 To 9999. %



MAT 5722 (n,2n) α 57-La-137
 Cross Section 0.000 To 9999. %

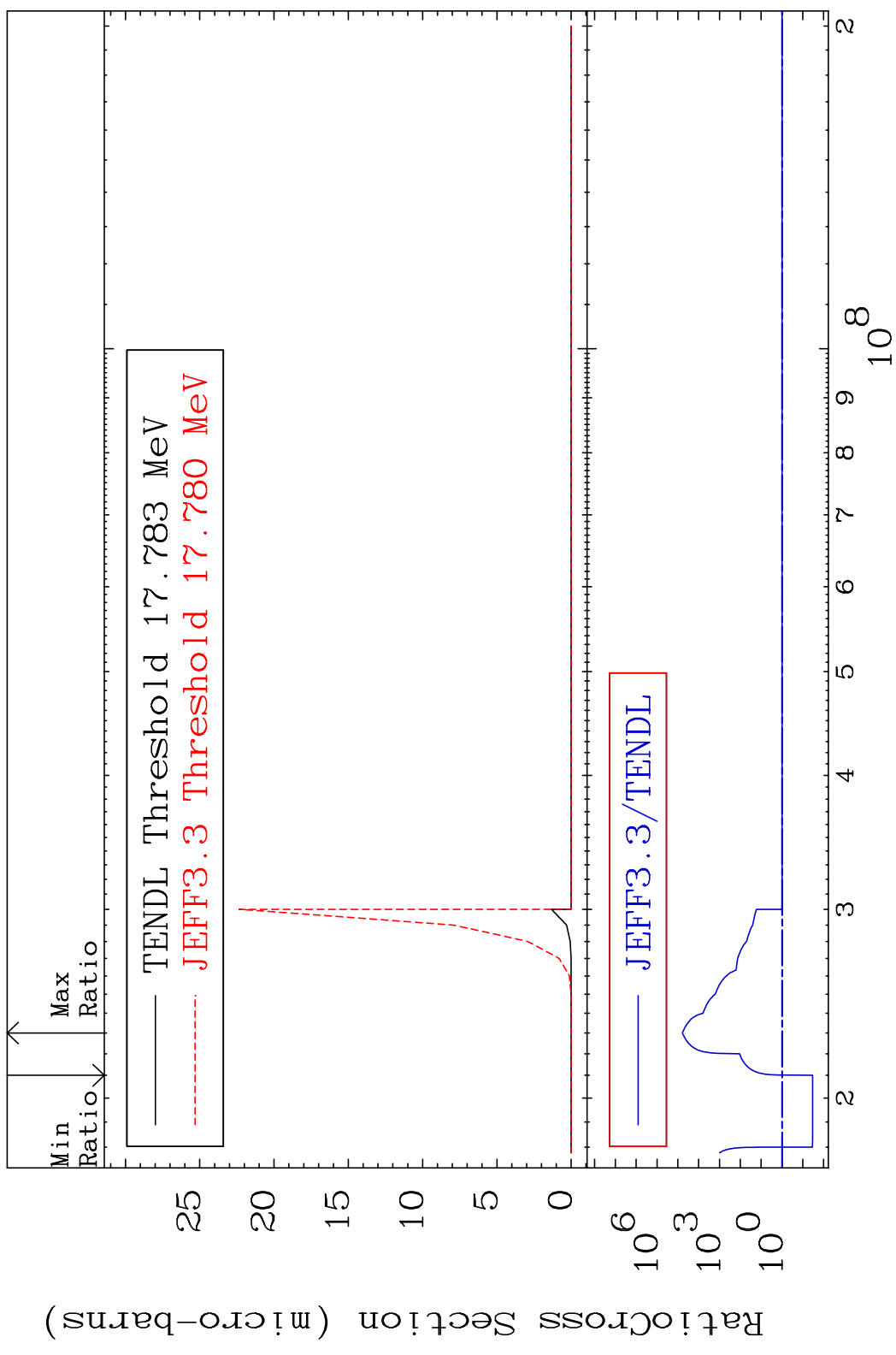


MAT 5722

(n,3n) α

57-La-137

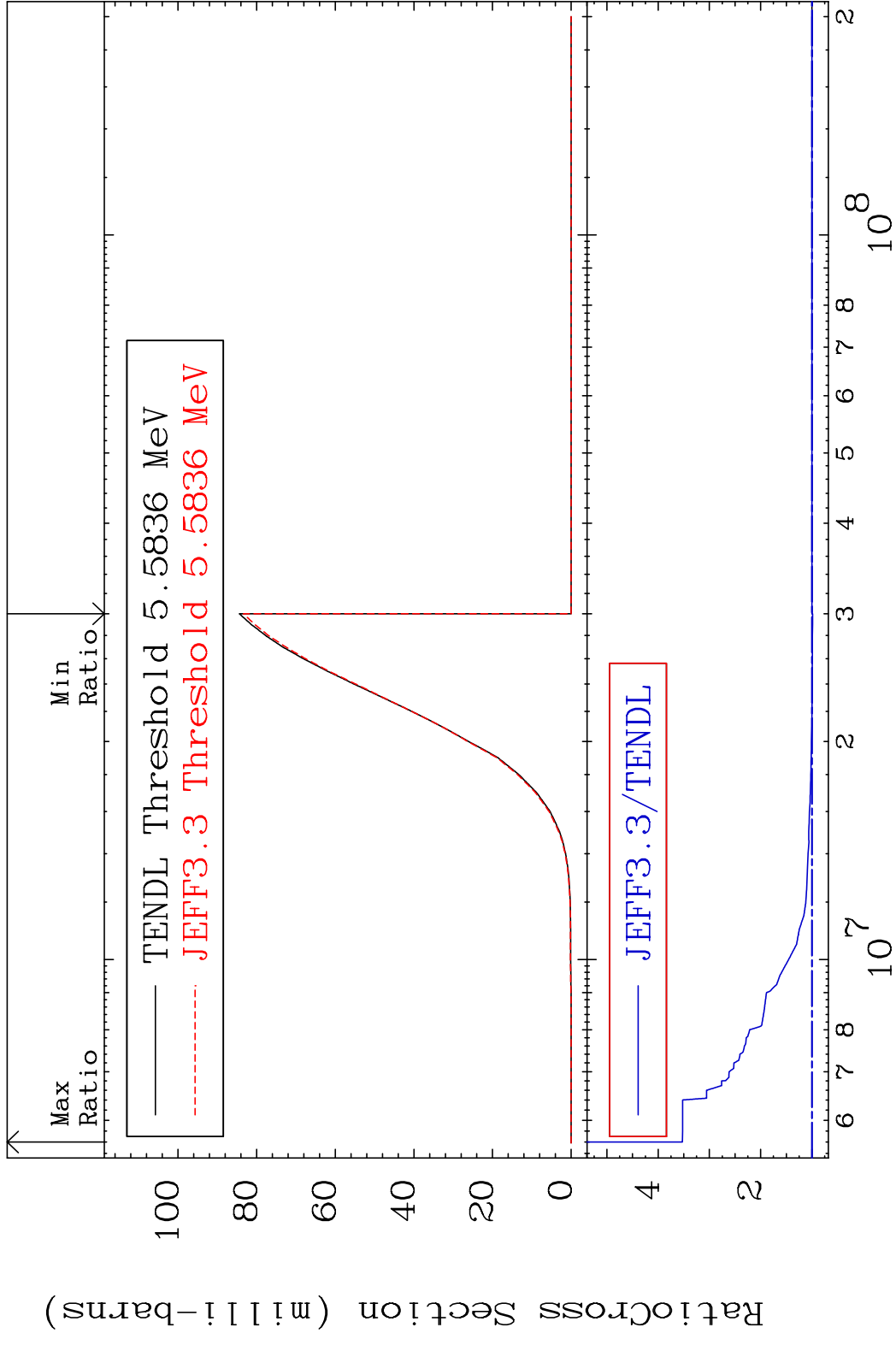
Cross Section -96.59 To 9999. %



MAT 5722

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

Cross Section -1.211 To 252.8 %



10

Incident Energy (eV)

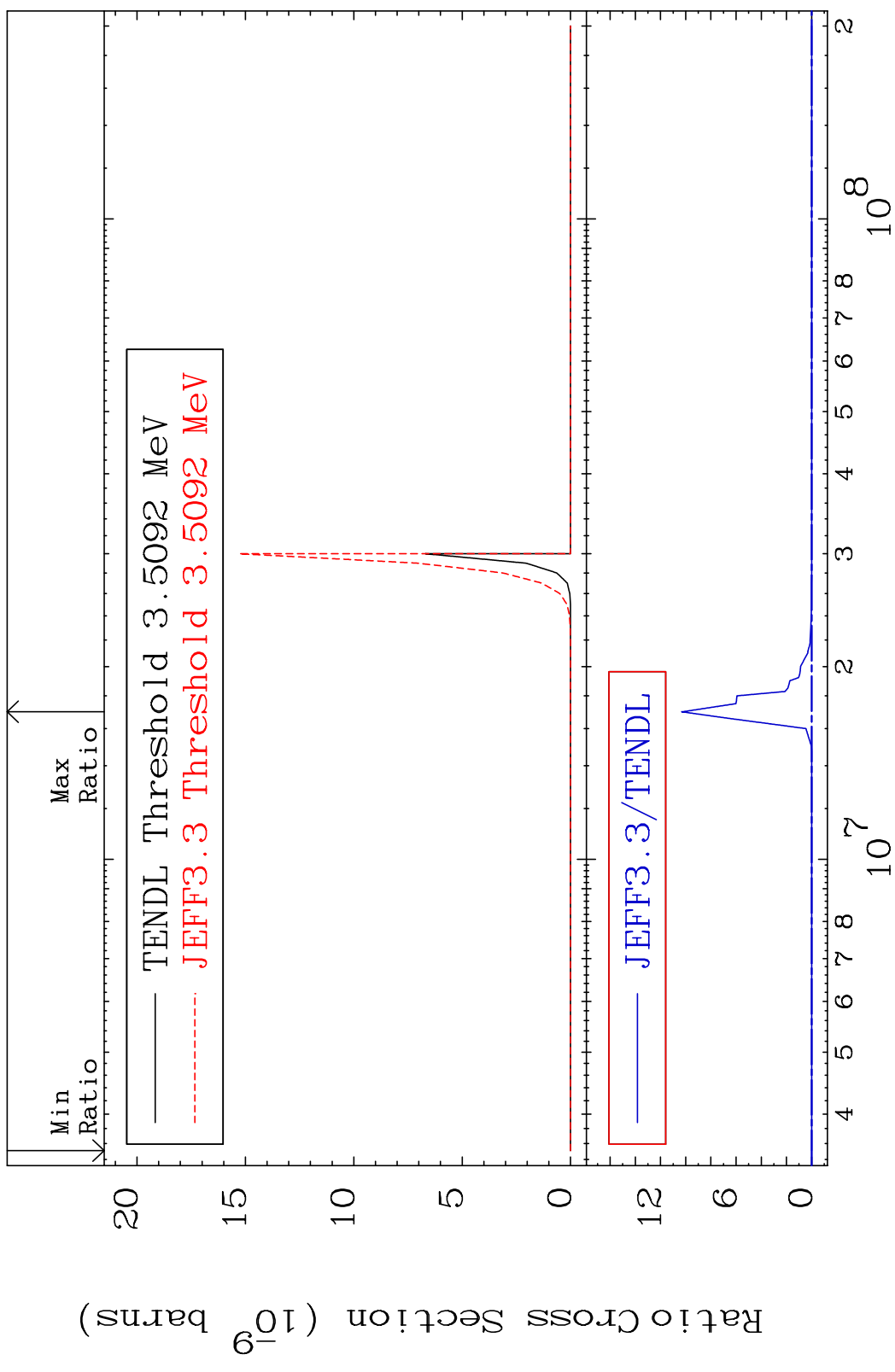
57-La-137

MAT 5722

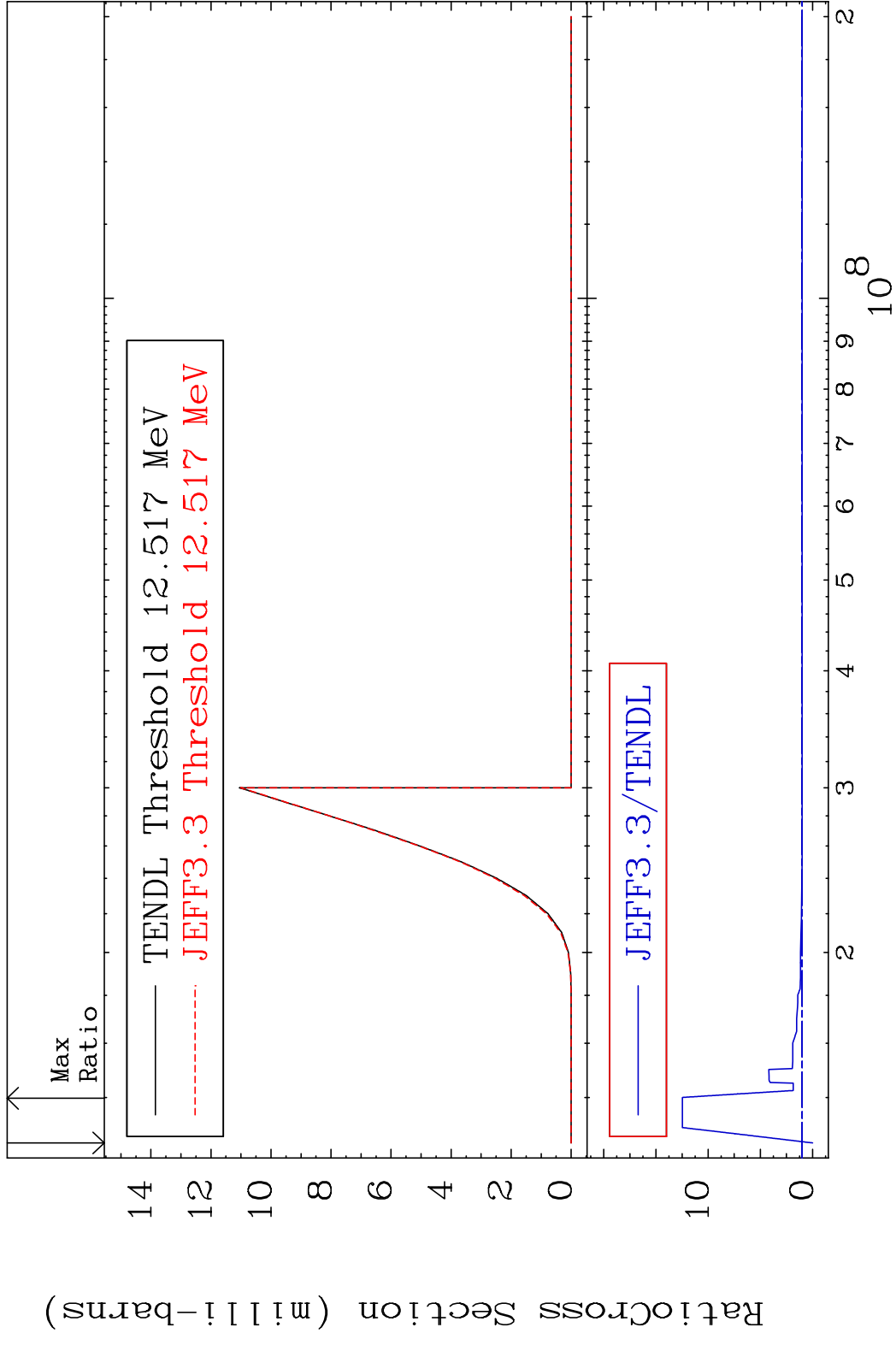
(n, n') 2α

57-La-137

Cross Section -100.0 To 9999. %



MAT 5722 (n, n') d 57-La-137
 Cross Section -100.0 To 1147. %

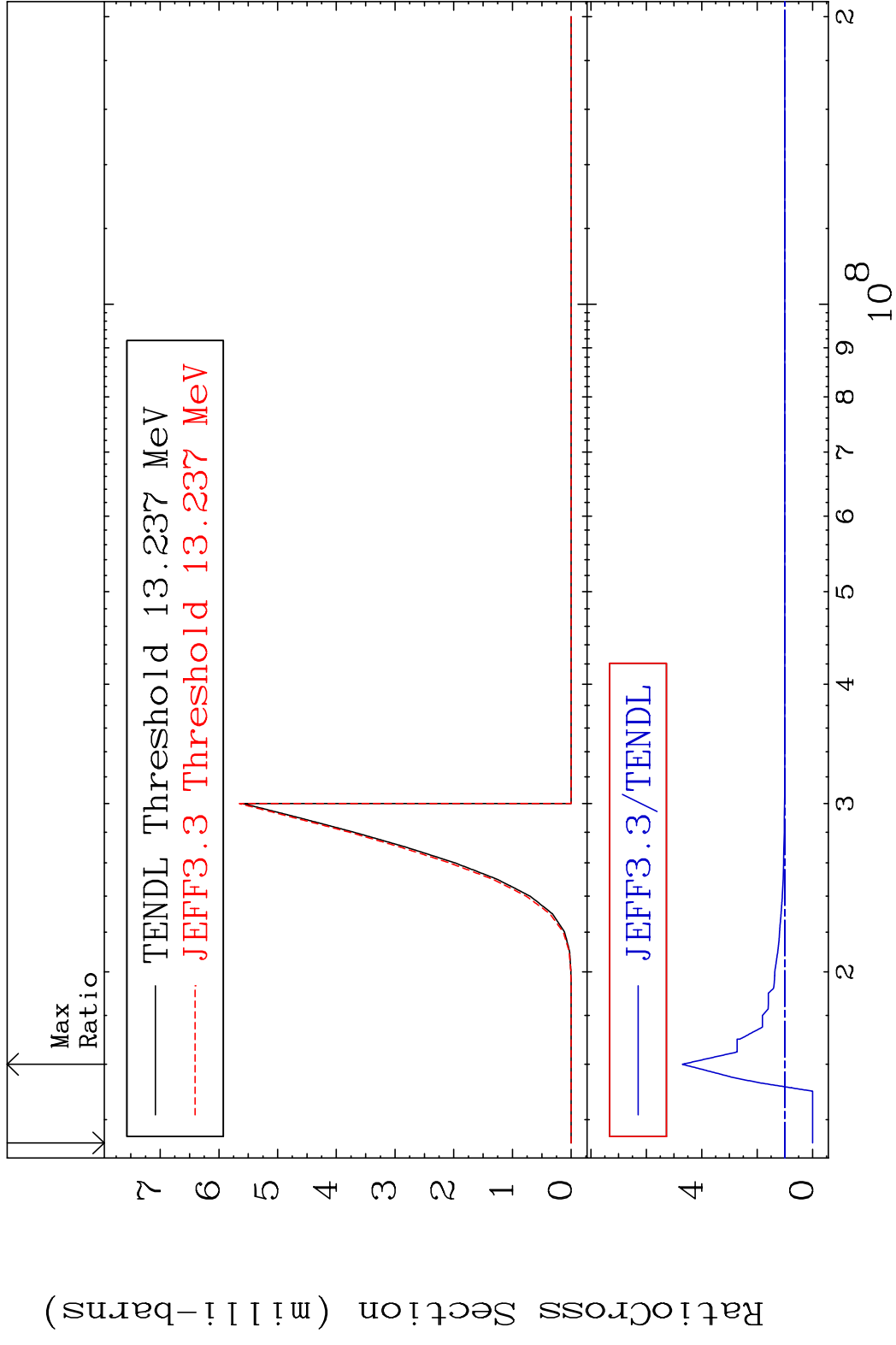


MAT 5722

(n, n') t

57-La-137

Cross Section -100.0 To 369.9 %

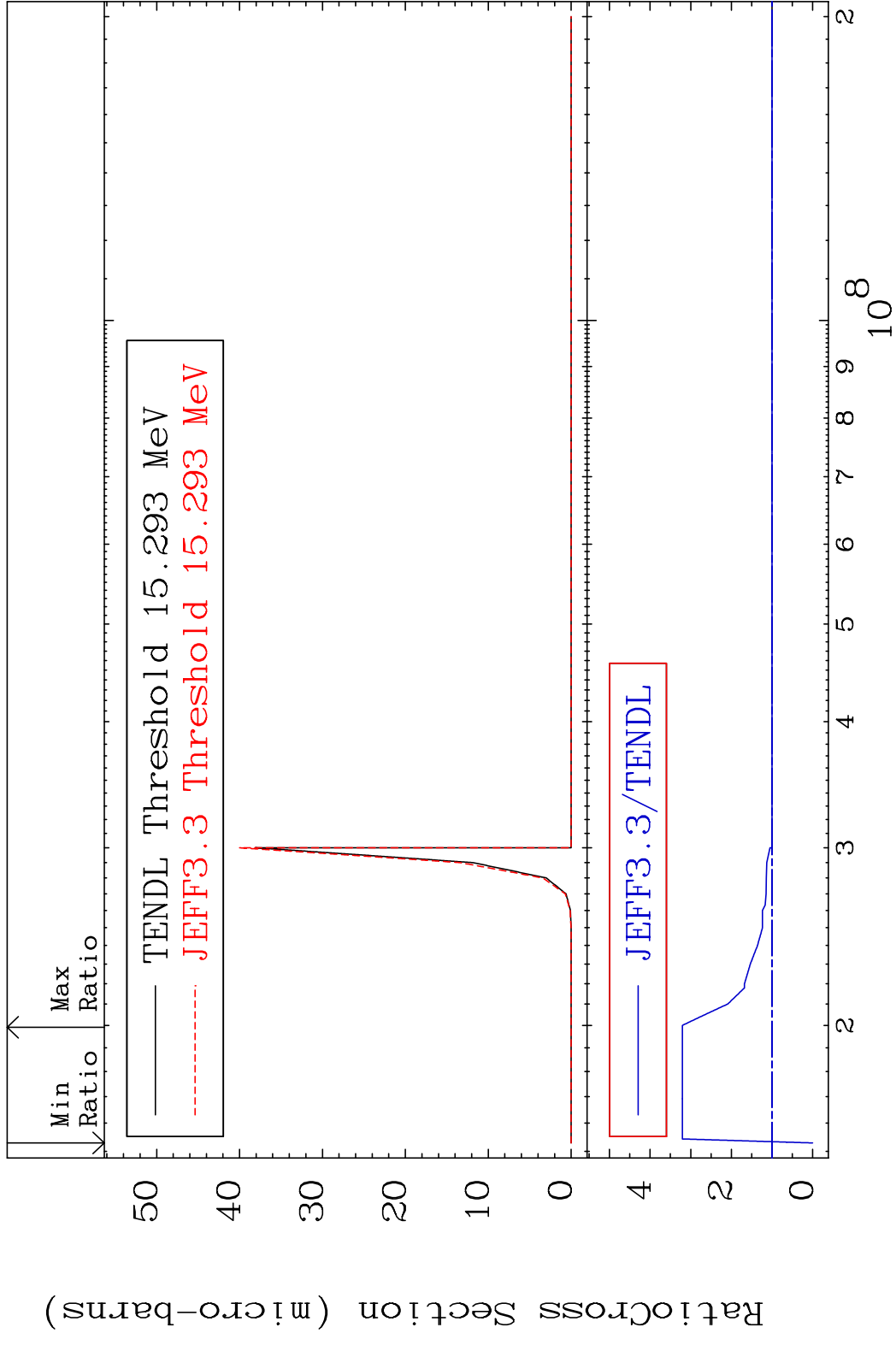


MAT 5722

(n,n') He-3

57-La-137

Cross Section -100.0 To 220.6 %

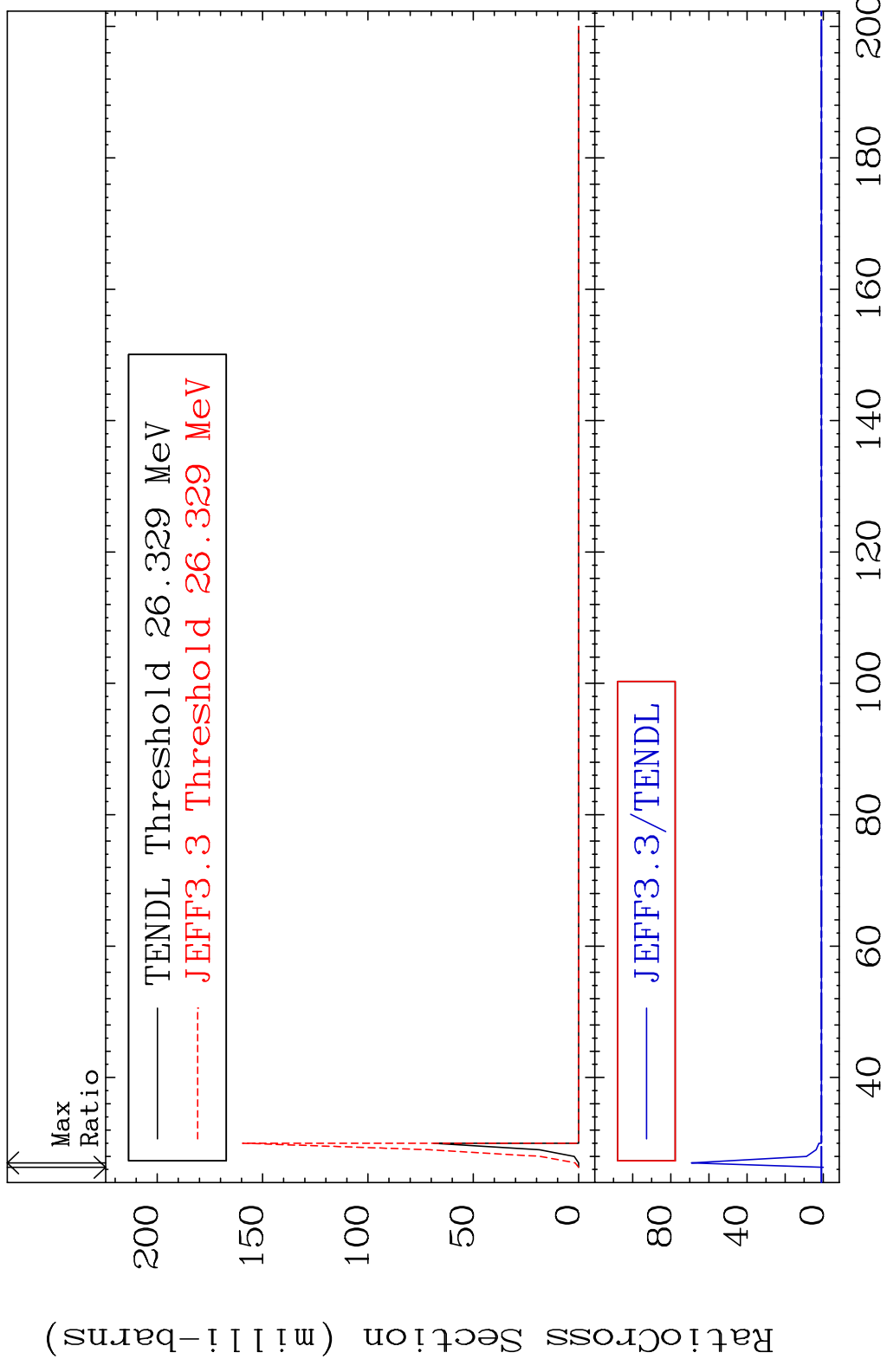


MAT 5722

(n,4n)

57-La-137

Cross Section -100.0 To 6819. %



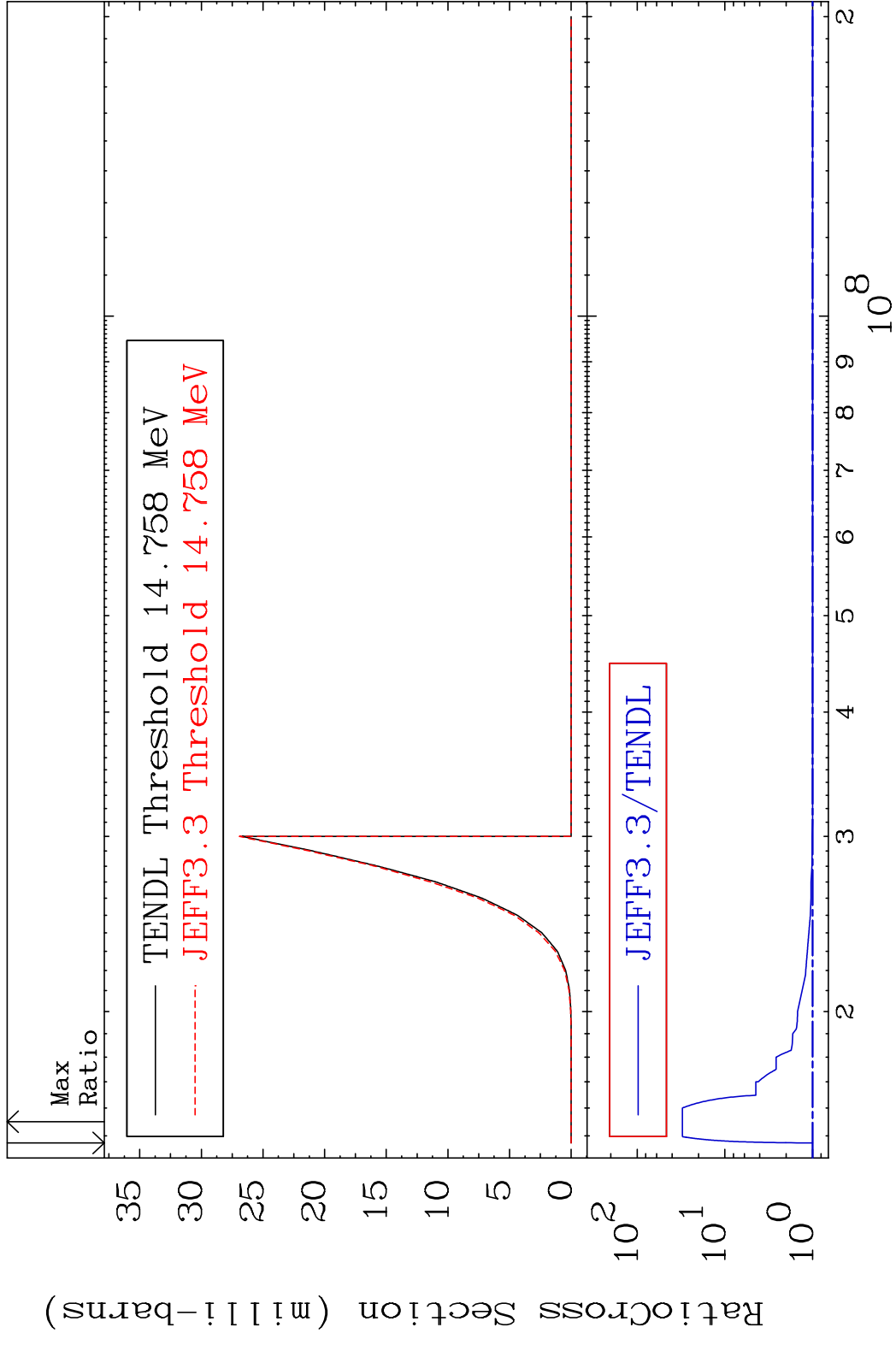
MAT 5722

(n,2n) p

57-La-137

Cross Section 0.000

To 2954. %



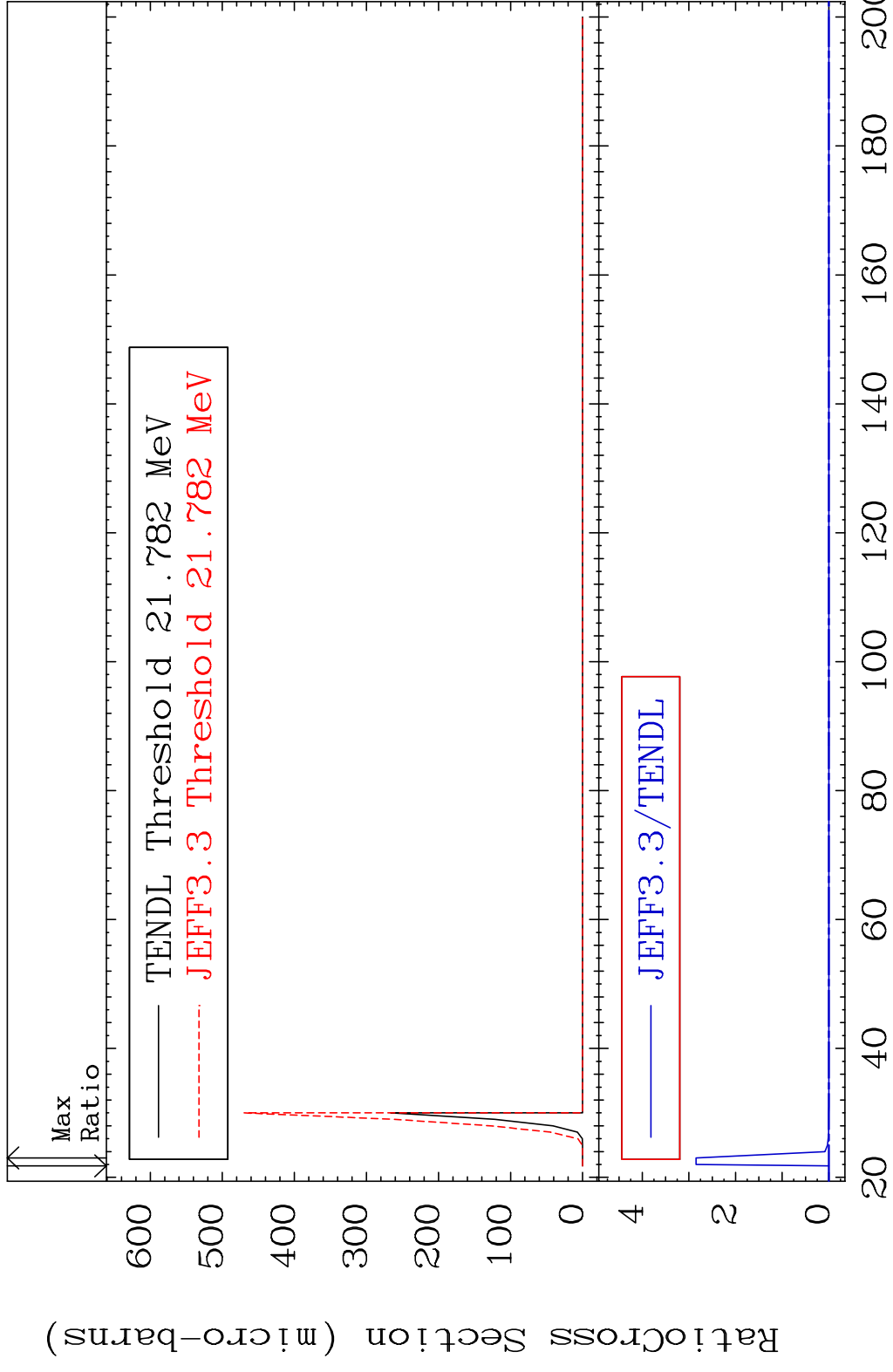
MAT 5722

(n,3n) p

57-La-137

Cross Section

-100.0 To 9999. %



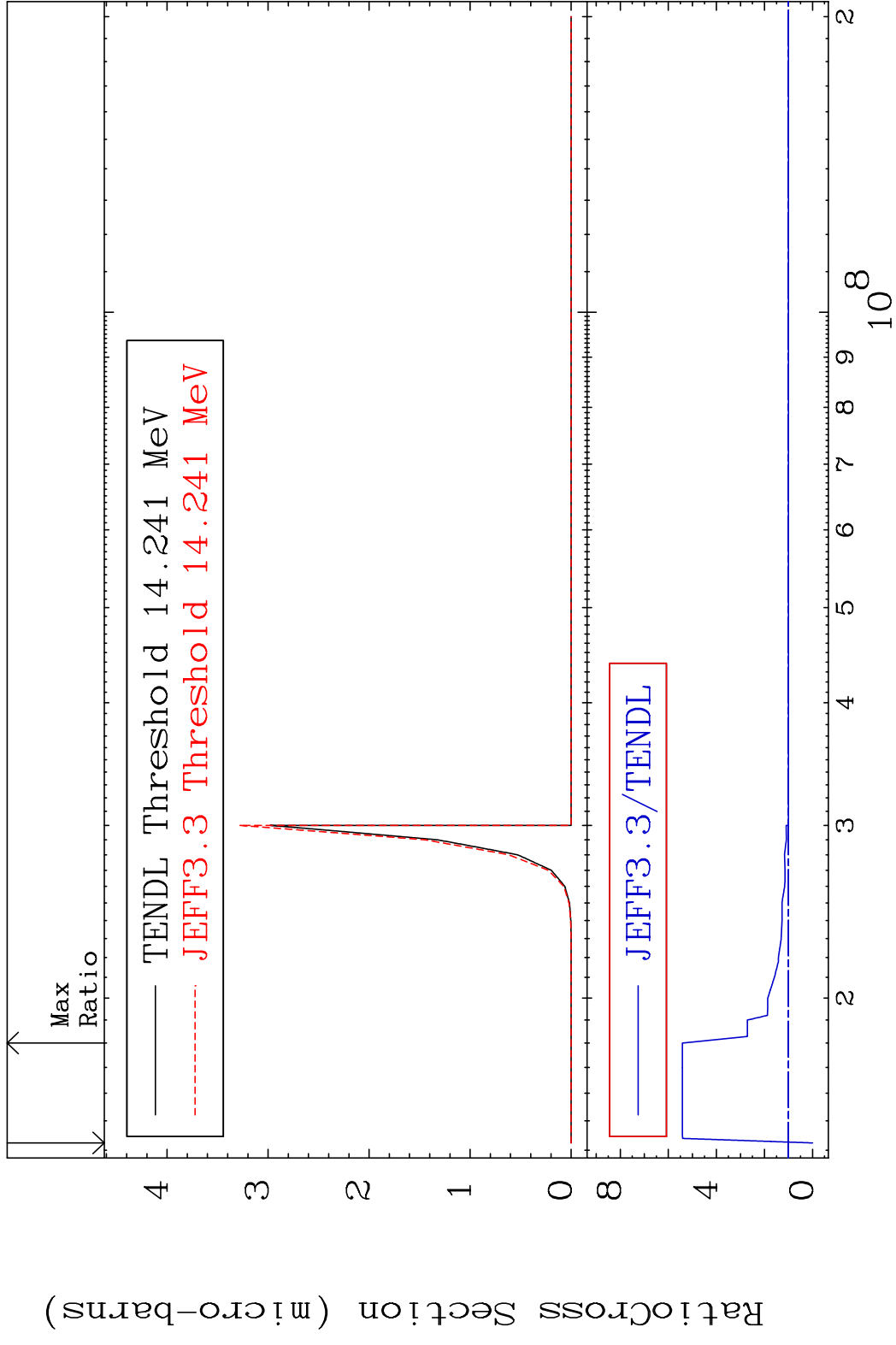
MAT 5722

(n,2n) p

57-La-137

Cross Section

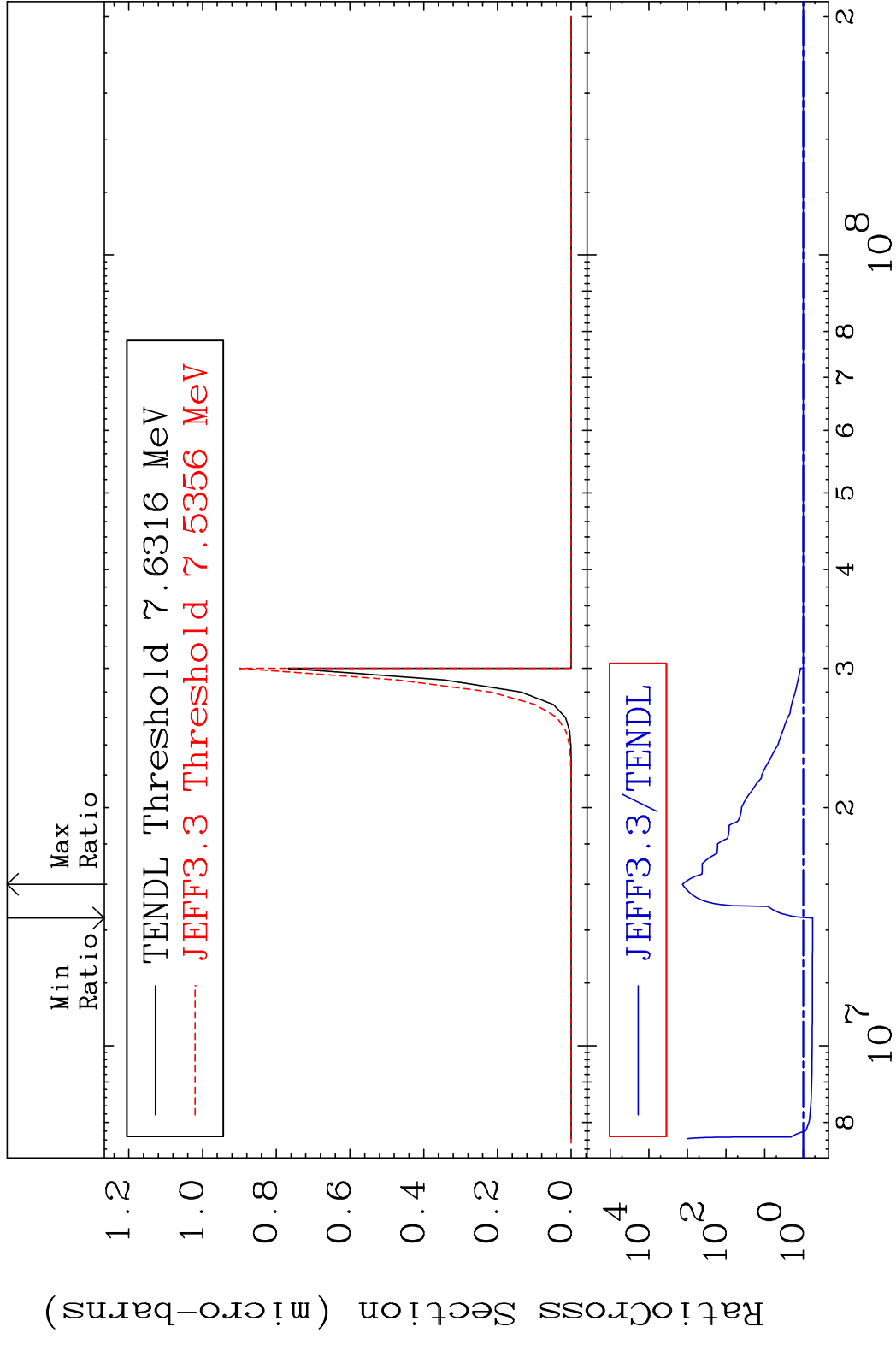
-100.0 To 441.7 %



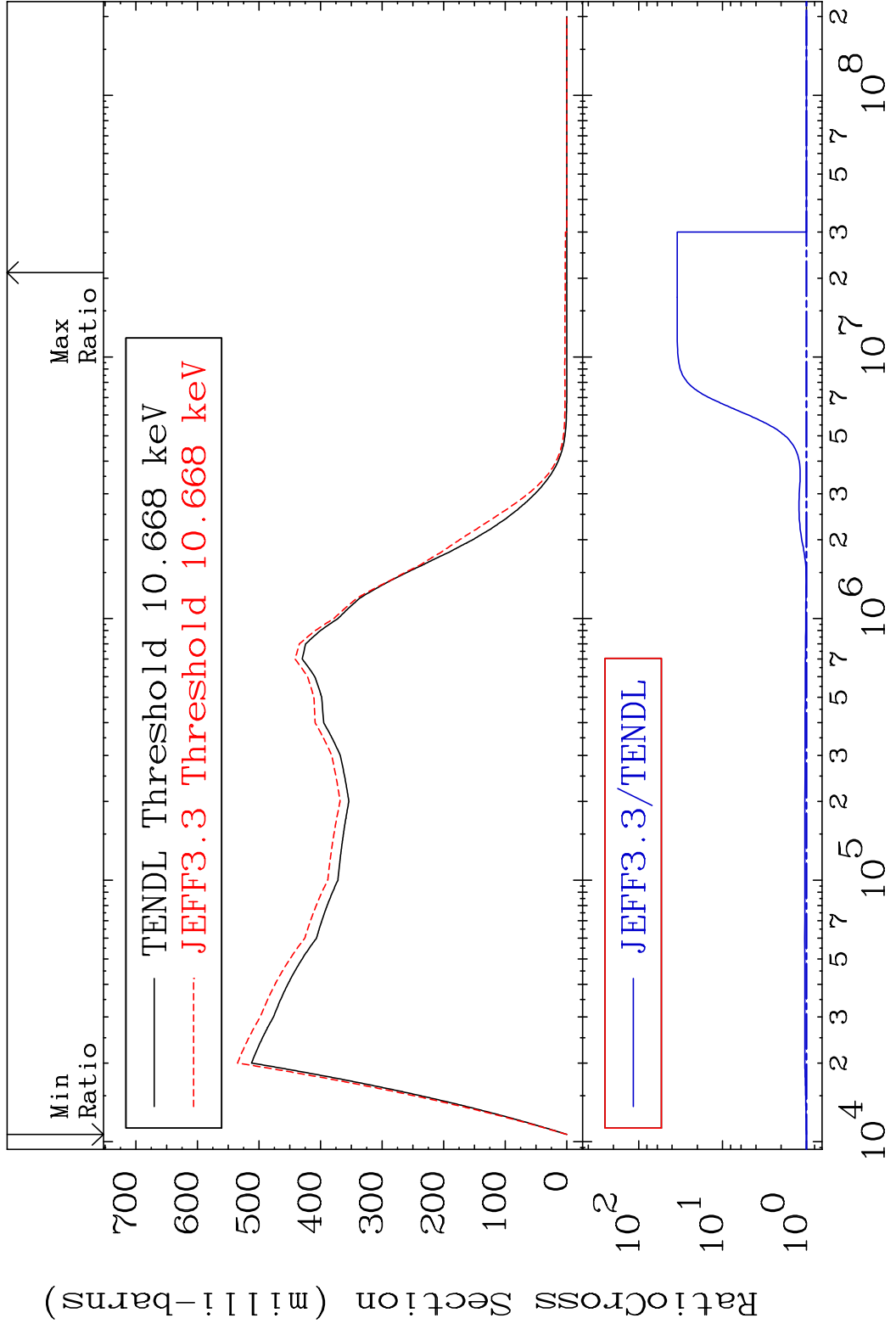
MAT 5722

(n,n') p α 57-La-137

Cross Section -42.75 To 9999. %

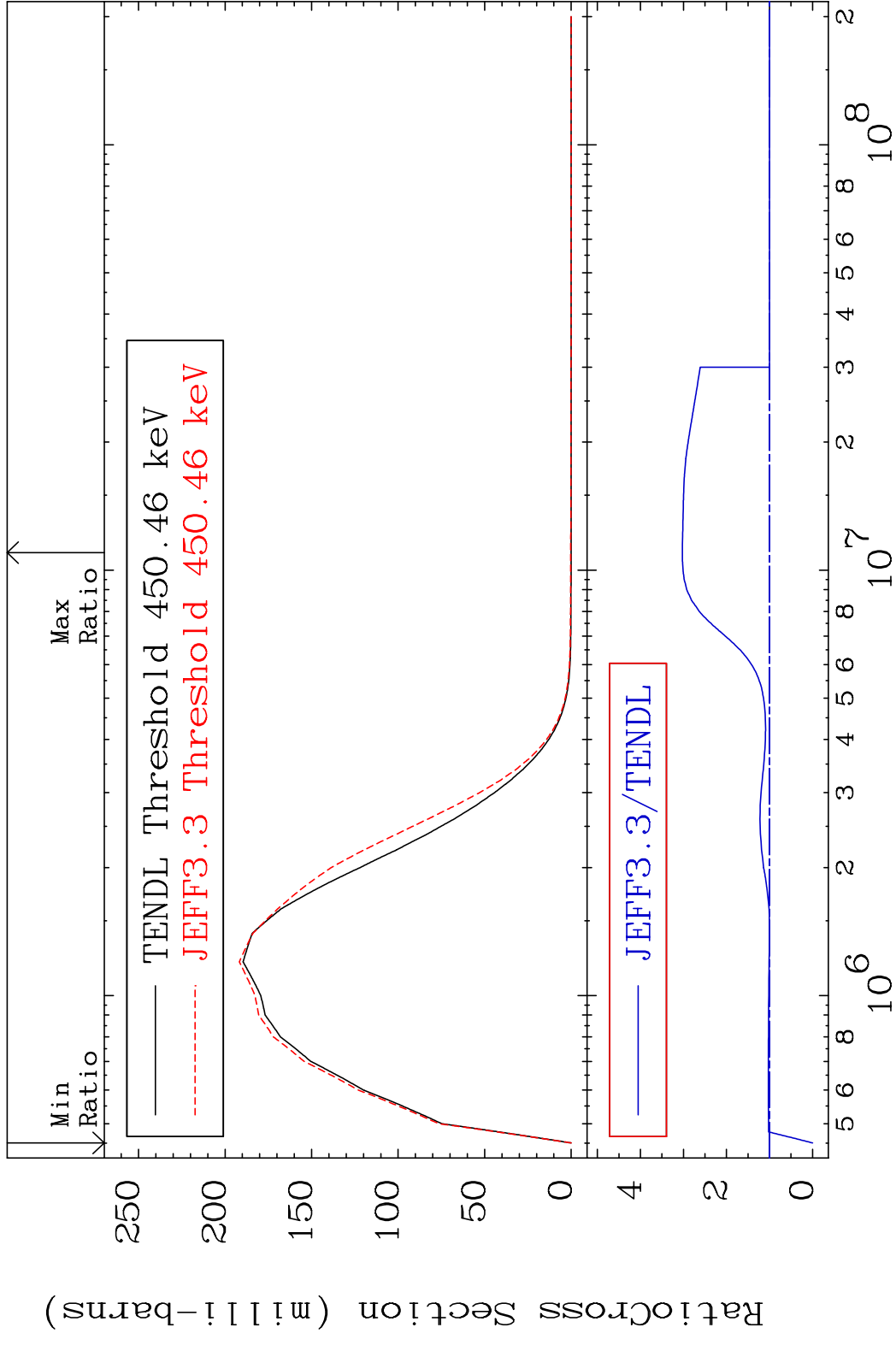


MAT 5722 MT= 51 (n, n') Level 57-La-137
 Cross Section 0.000 To 3373. %

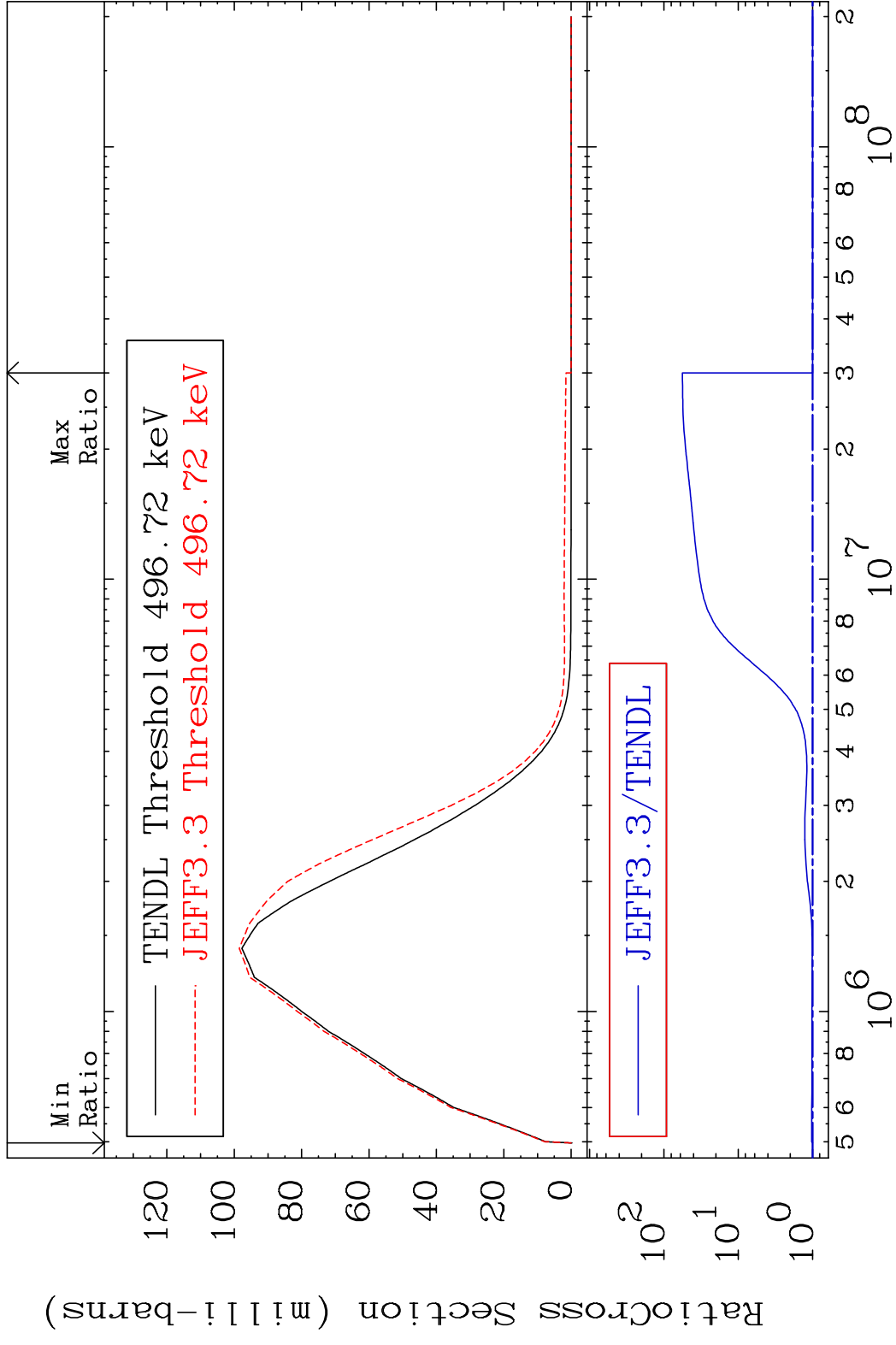


20 10⁴ 2 3 5 7 10⁵ 2 3 5 7 10⁶ 2 3 5 7 10⁷ 2 3 5 7 10⁸ 20 57-La-137

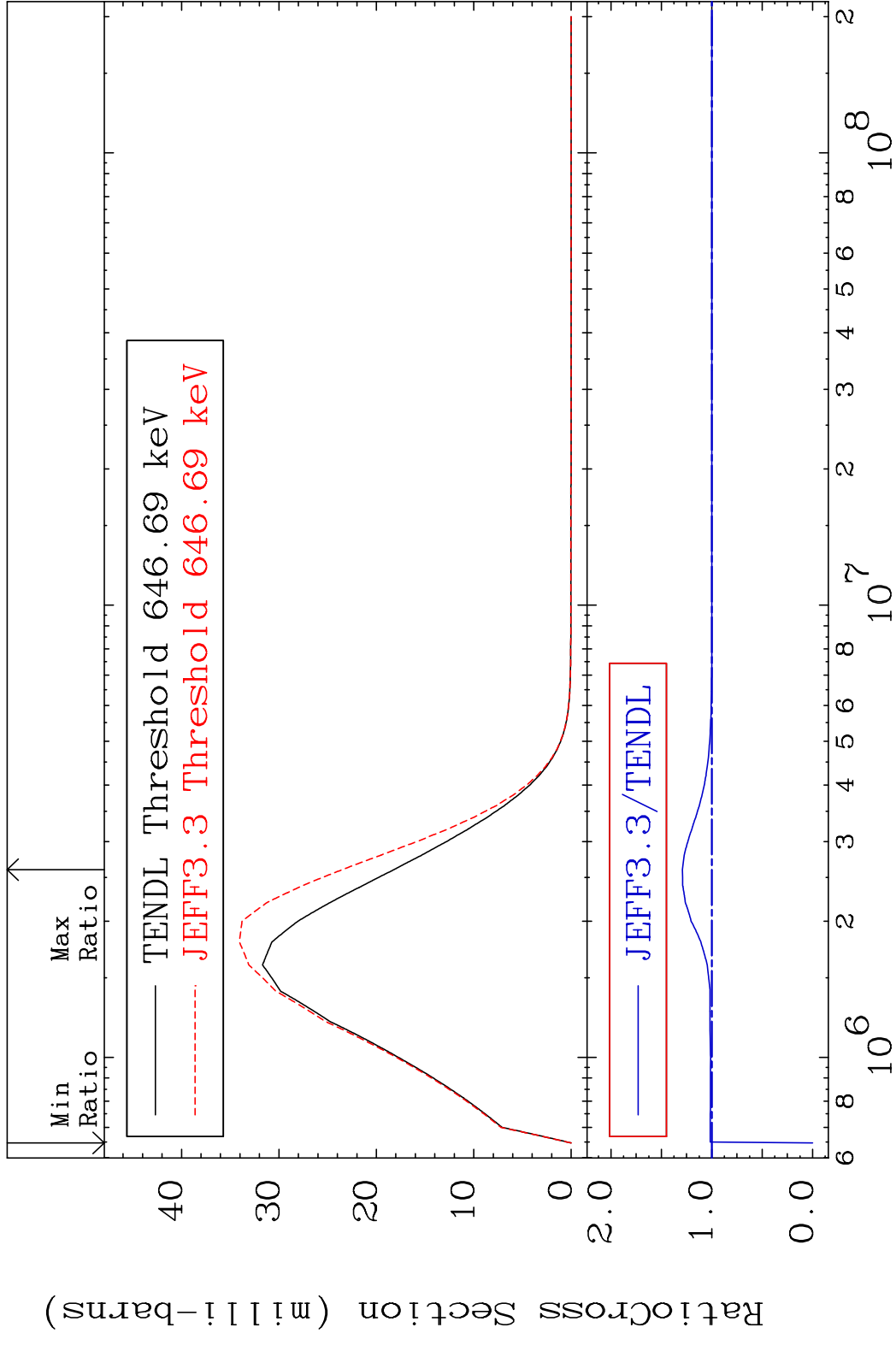
MAT 5722 MT= 52 (n, n') Level 57-La-137
 Cross Section -100.0 To 202.5 %



MAT 5722 MT= 53 (n, n') Level 57-La-137
 Cross Section 0.000 To 5548. %



MAT 5722 MT= 54 (n,n') Level 57-La-137
 Cross Section -100.0 To 29.17 %

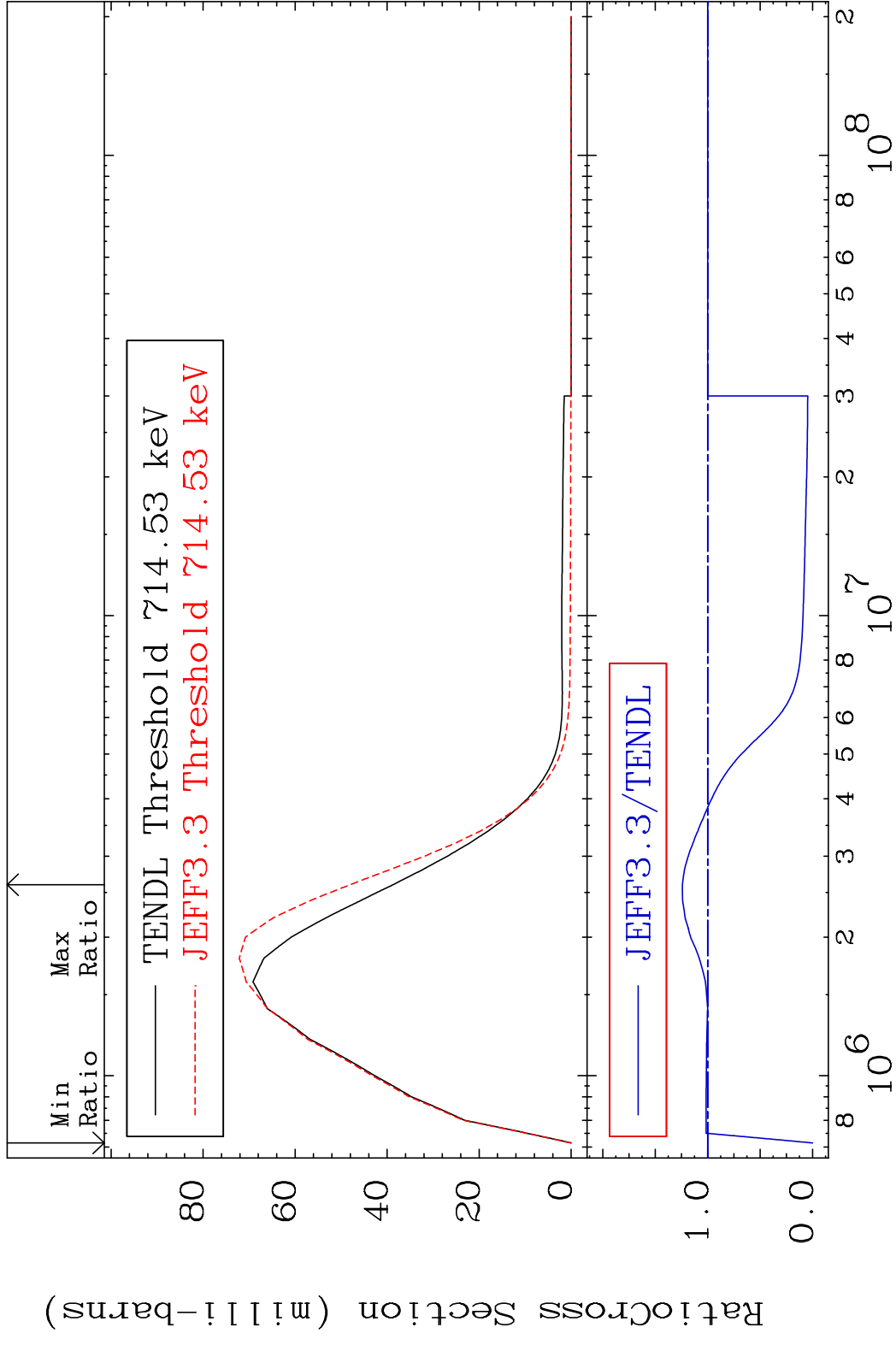


MAT 5722

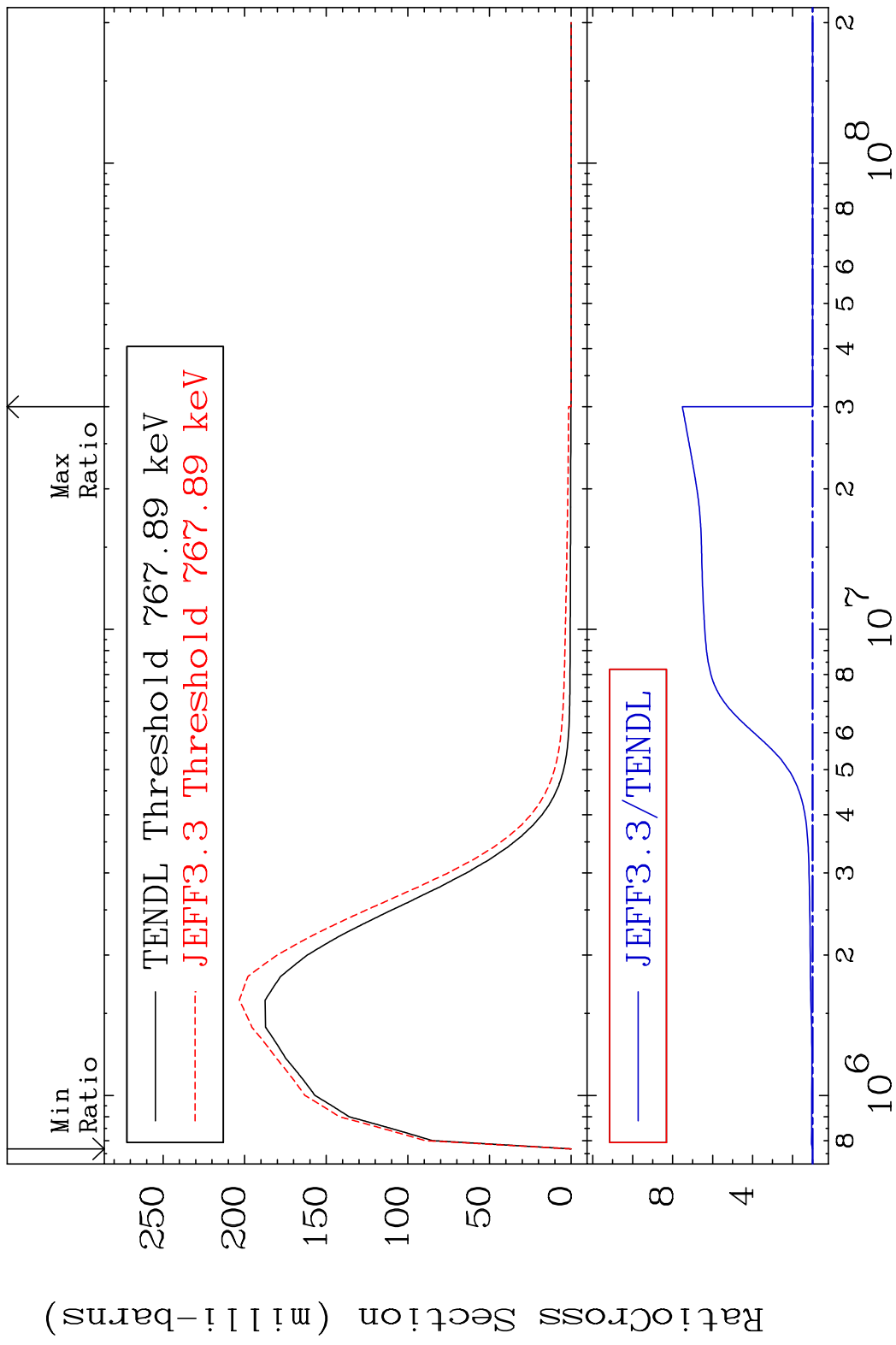
MT= 55 (n, n') Level

57-La-137

Cross Section -100.0 To 24.11 %



MAT 5722 MT= 56 (n, n') Level 57-La-137
 Cross Section 0.000 To 651.3 %



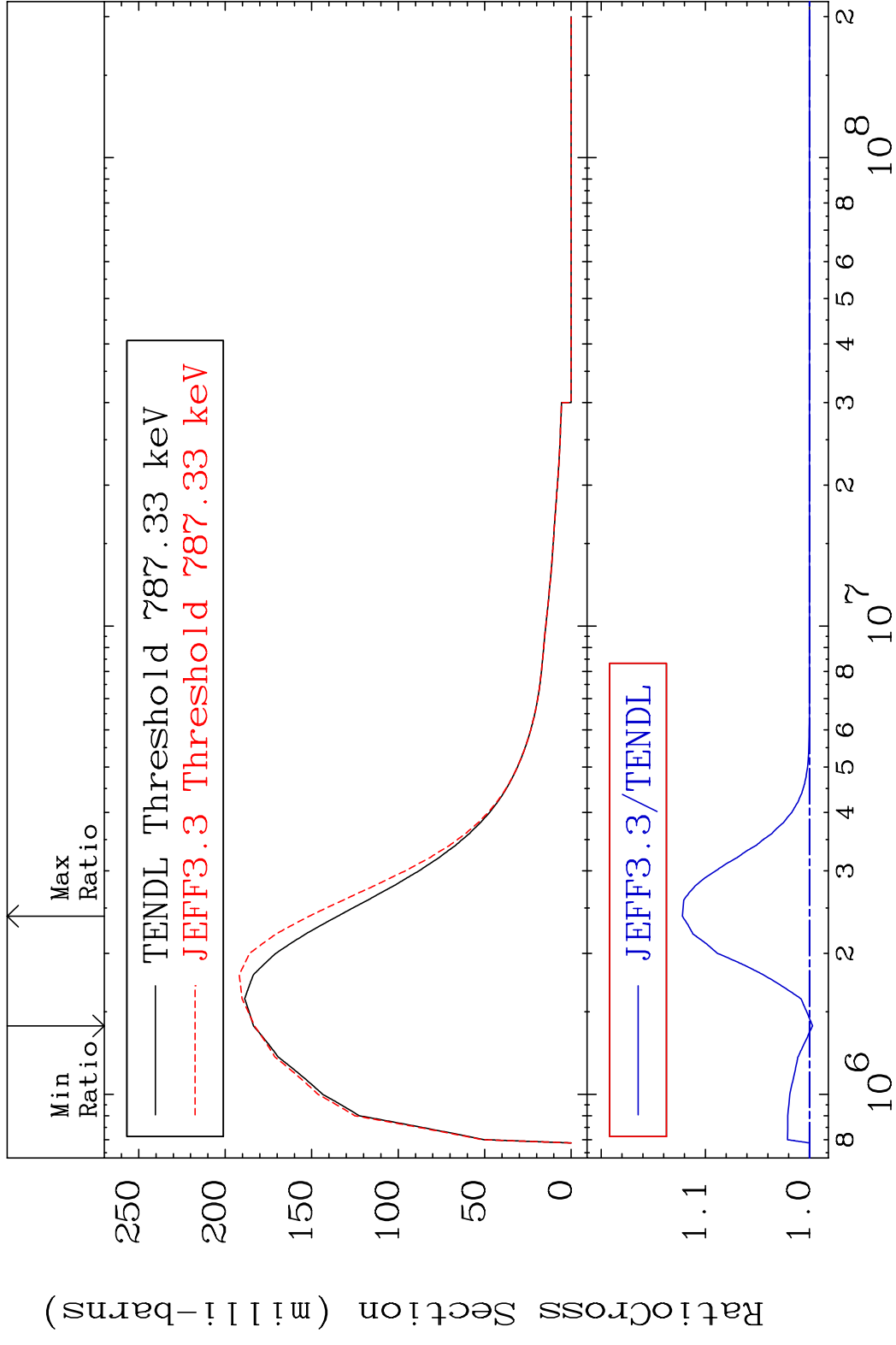
25 57-La-137

MAT 5722

MT= 57 (n,n') Level

57-La-137

Cross Section -0.299 To 12.21 %



26

Incident Energy (eV)

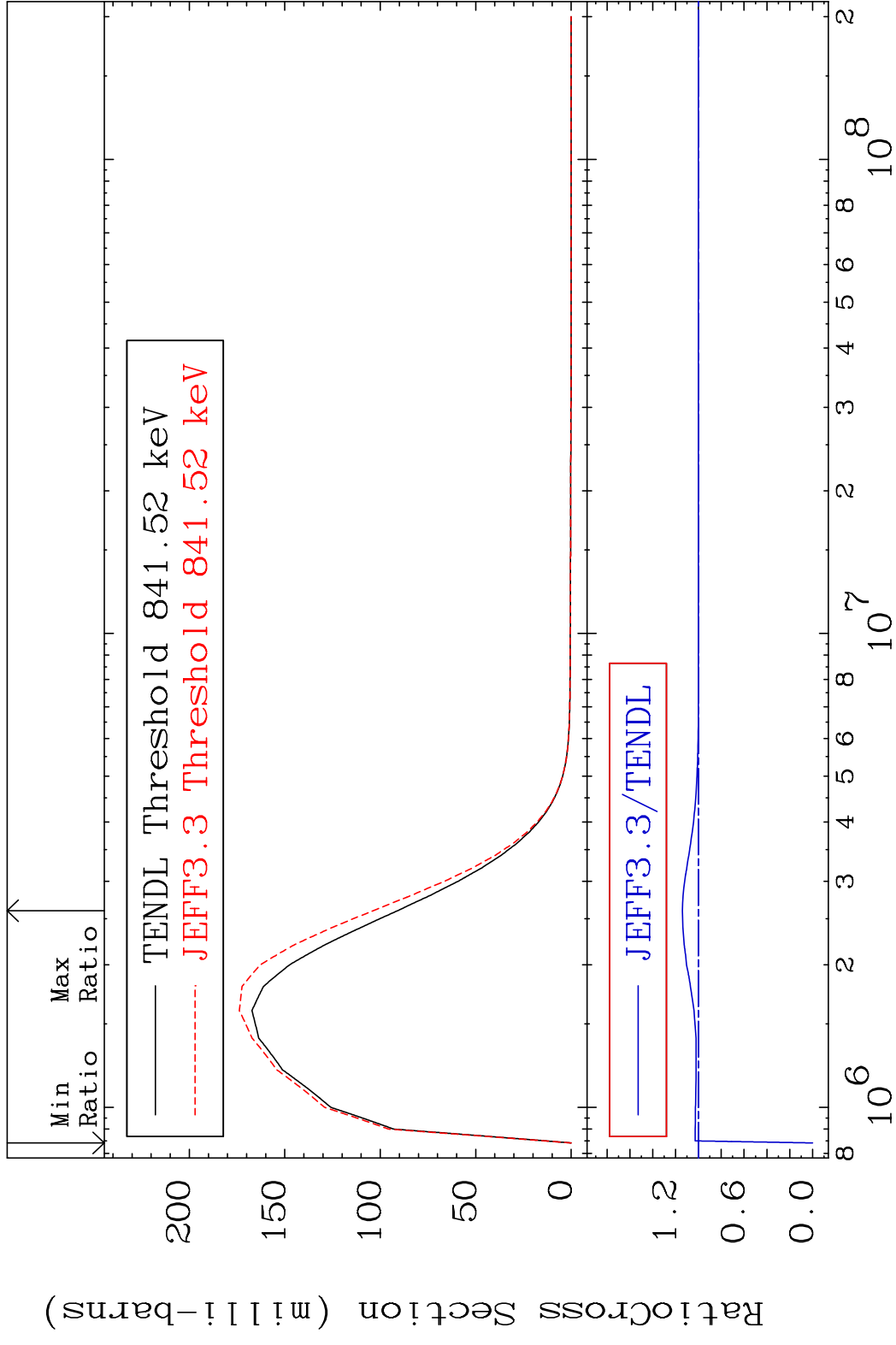
57-La-137

MAT 5722

MT= 58 (n, n') Level

57-La-137

Cross Section -100.0 To 14.08 %

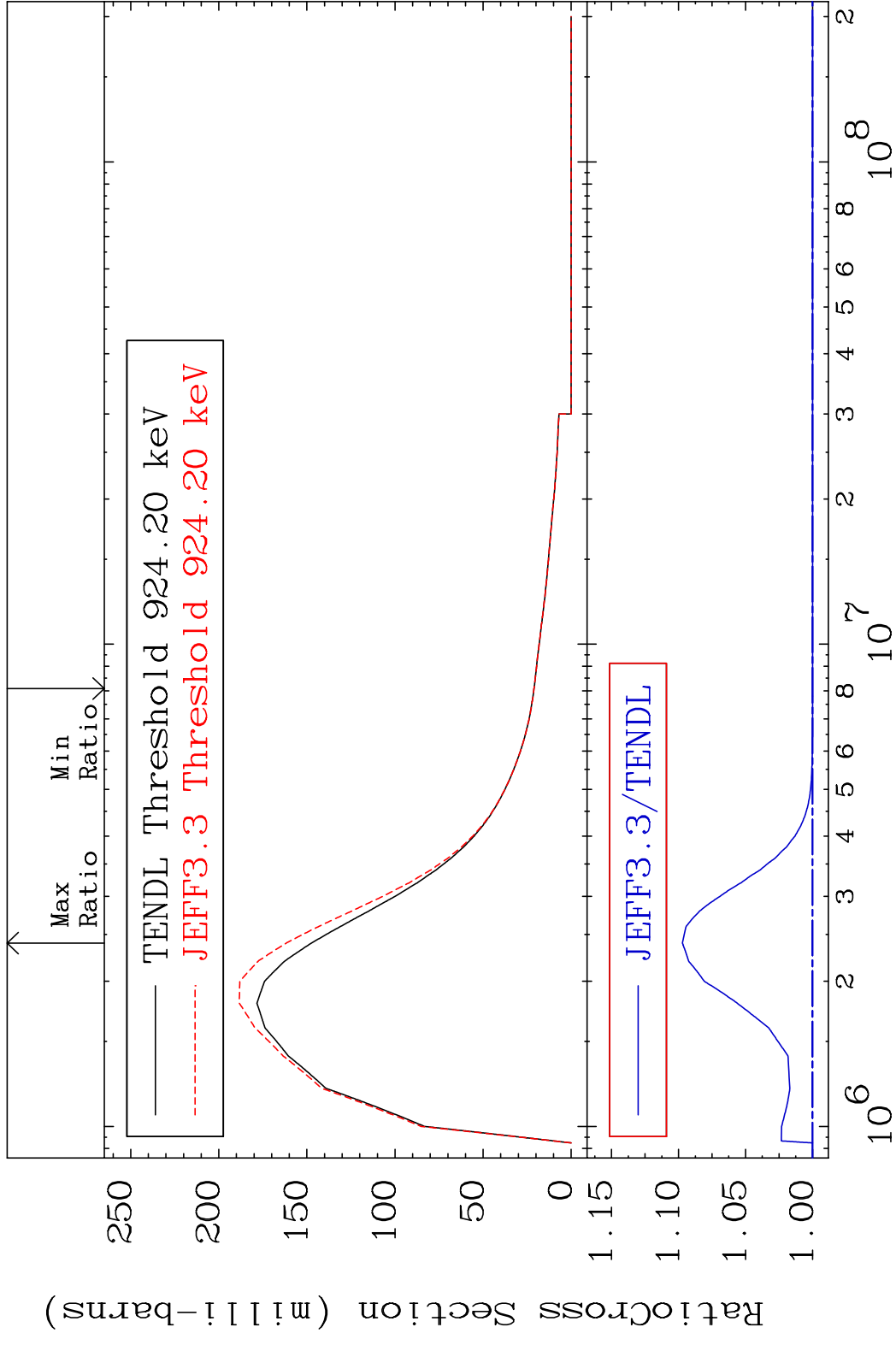


27

Incident Energy (eV)

57-La-137

MAT 5722 MT= 59 (n, n') Level 57-La-137
 Cross Section 0.000 To 9.715 %

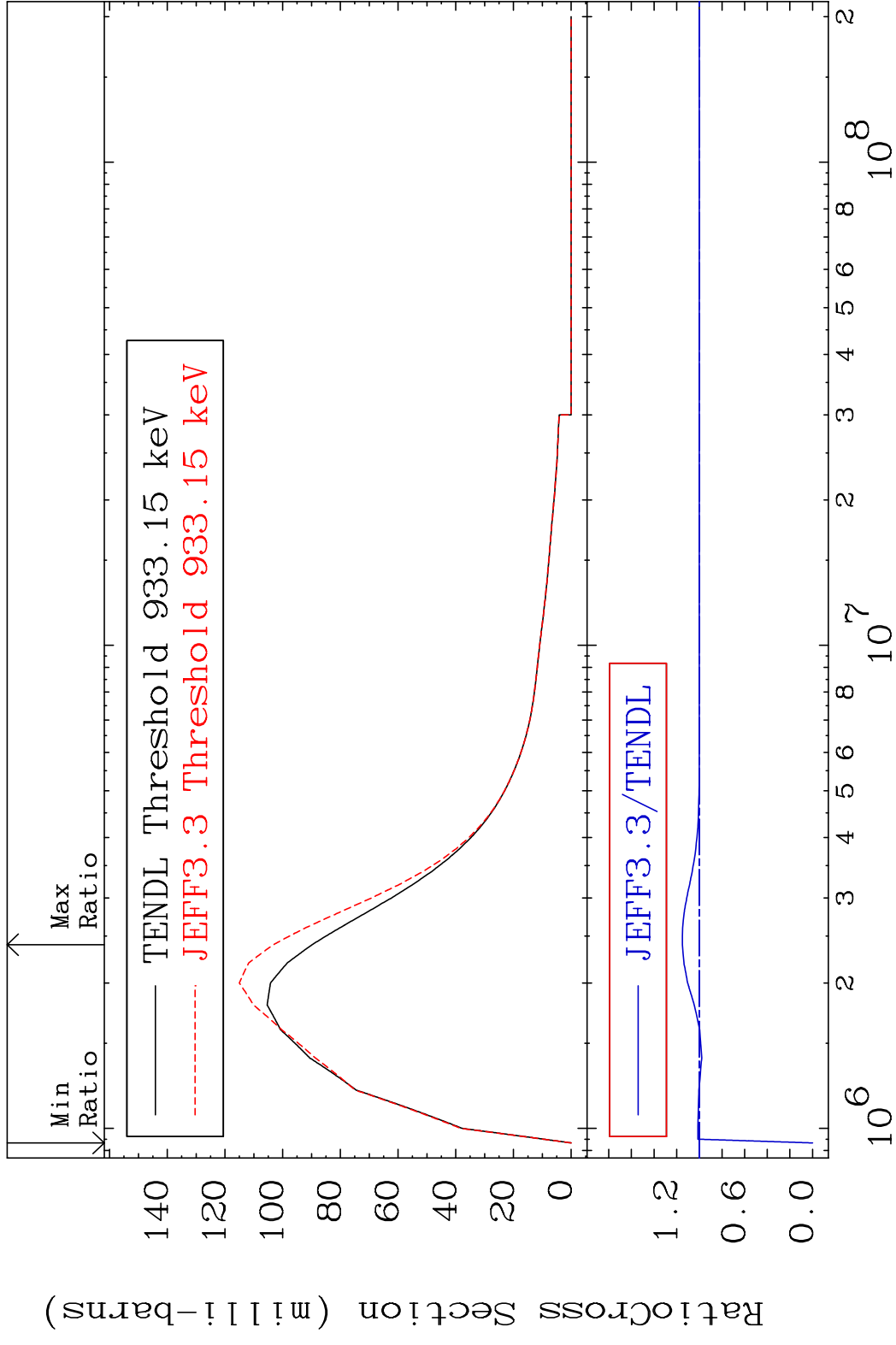


MAT 5722

MT= 60 (n, n') Level

57-La-137

Cross Section -100.0 To 14.98 %

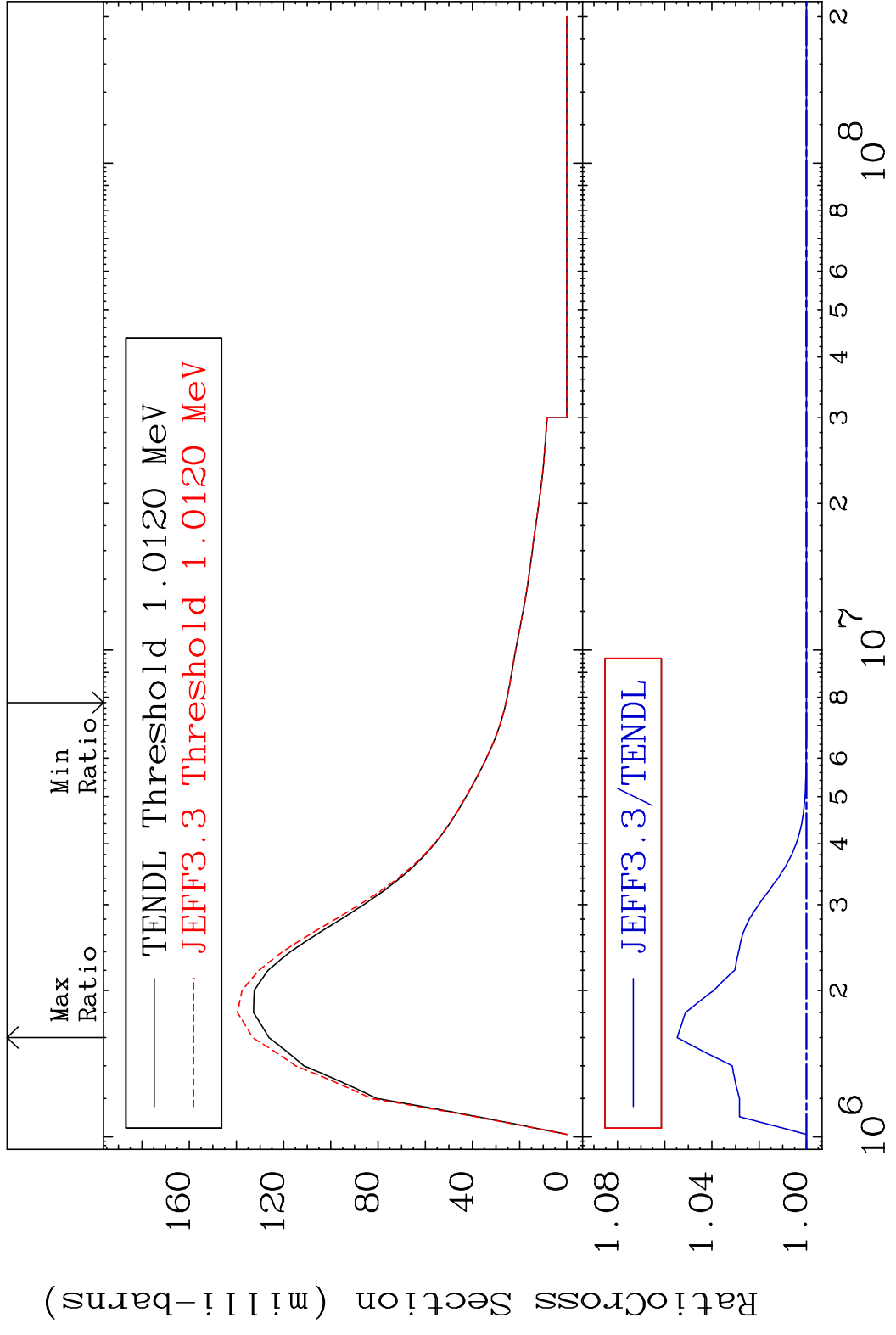


29

Incident Energy (eV)

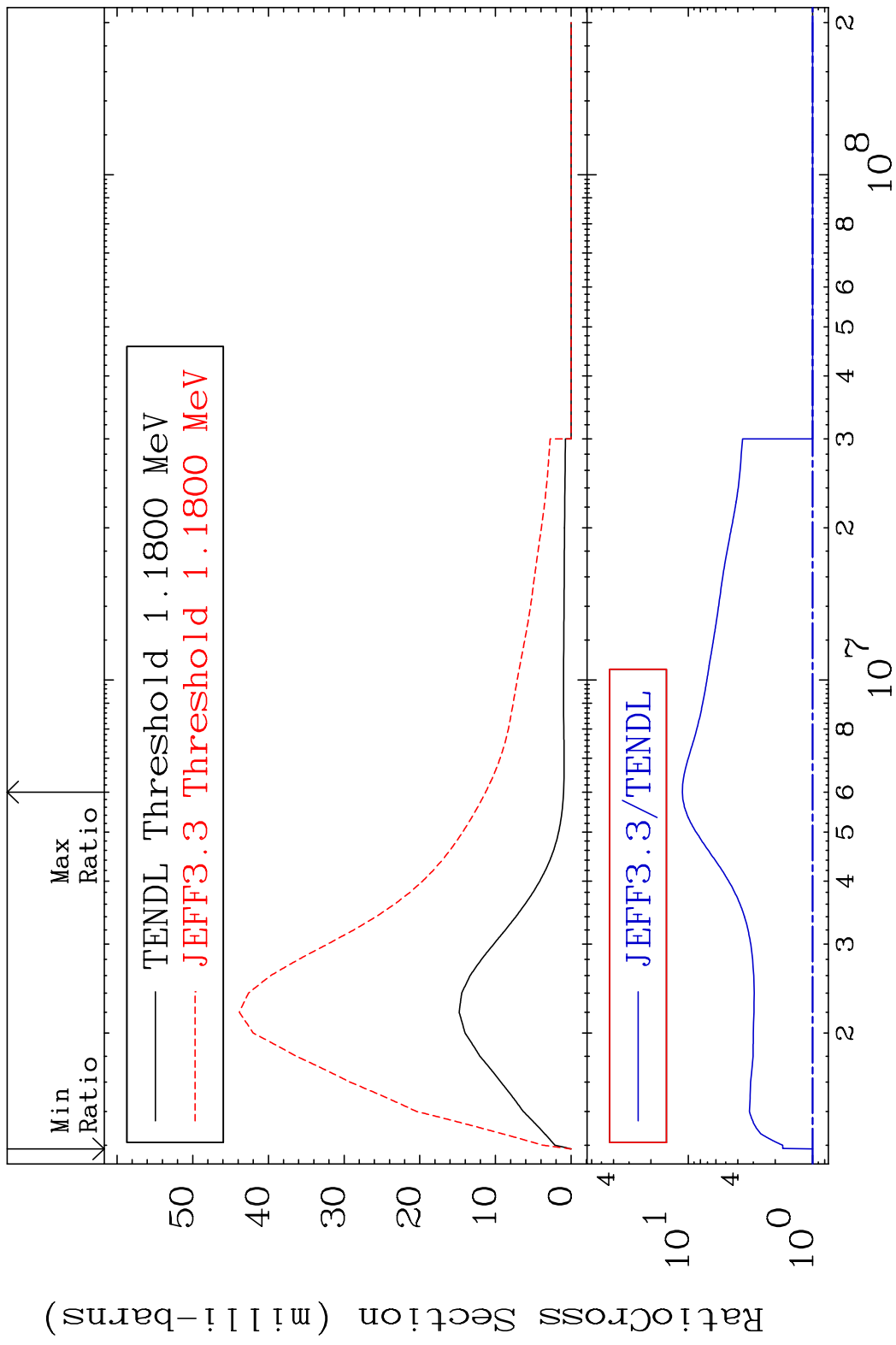
57-La-137

MAT 5722 MT= 61 (n,n') Level 57-La-137
 Cross Section 0.000 To 5.471 %

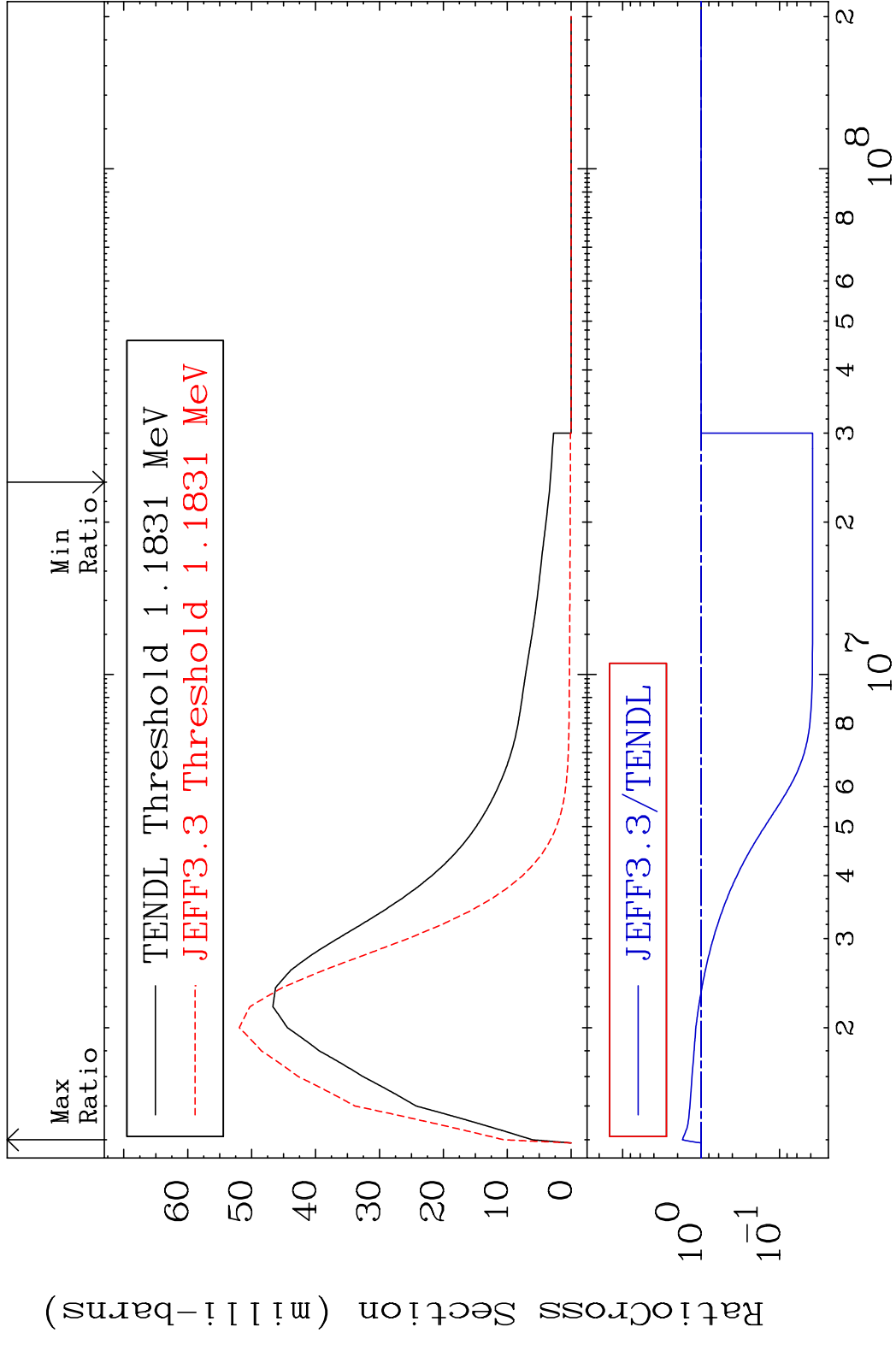


30 Incident Energy (eV) 57-La-137

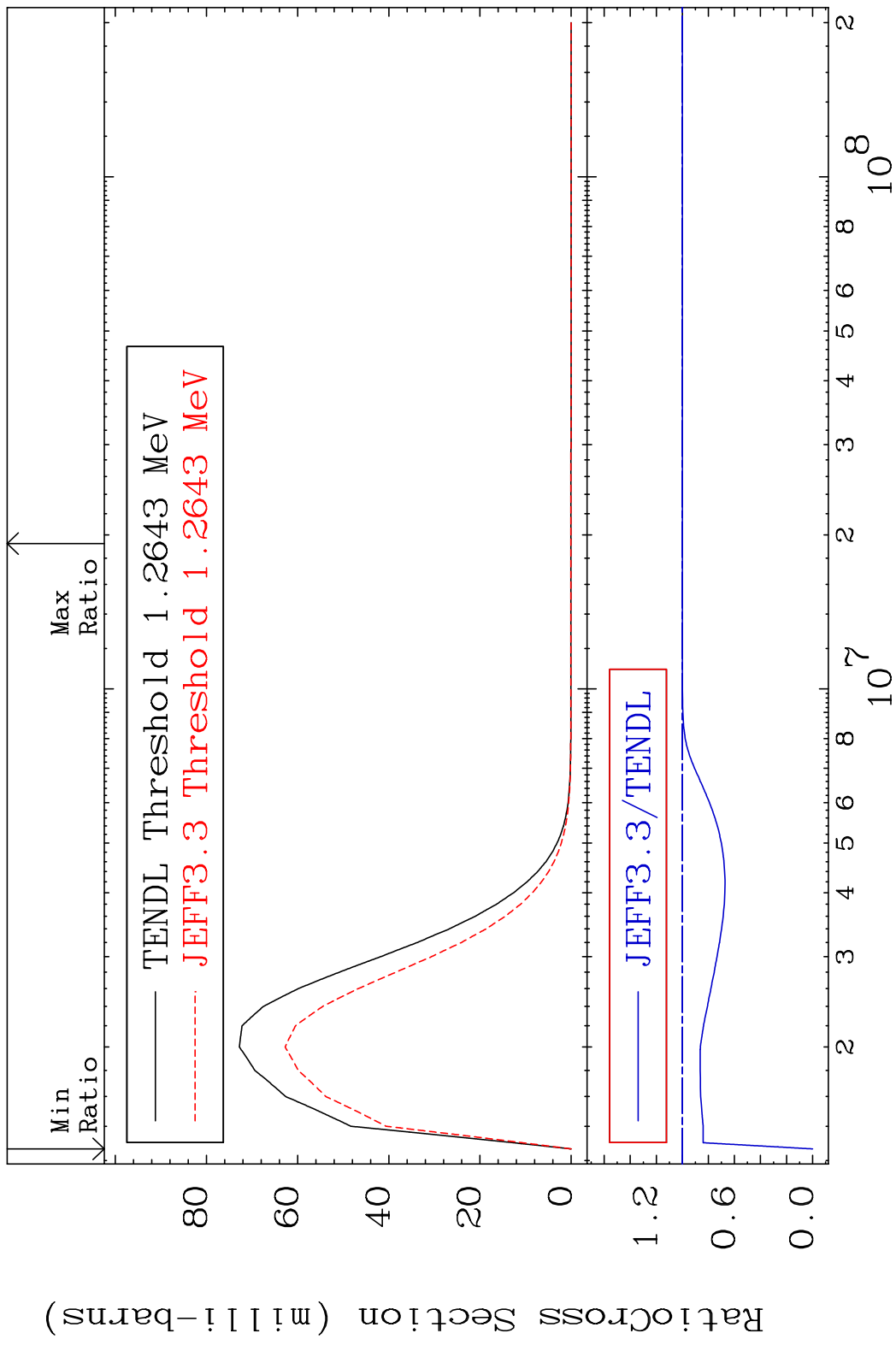
MAT 5722 MT= 62 (n,n') Level 57-La-137
 Cross Section 0.000 To 1016. %



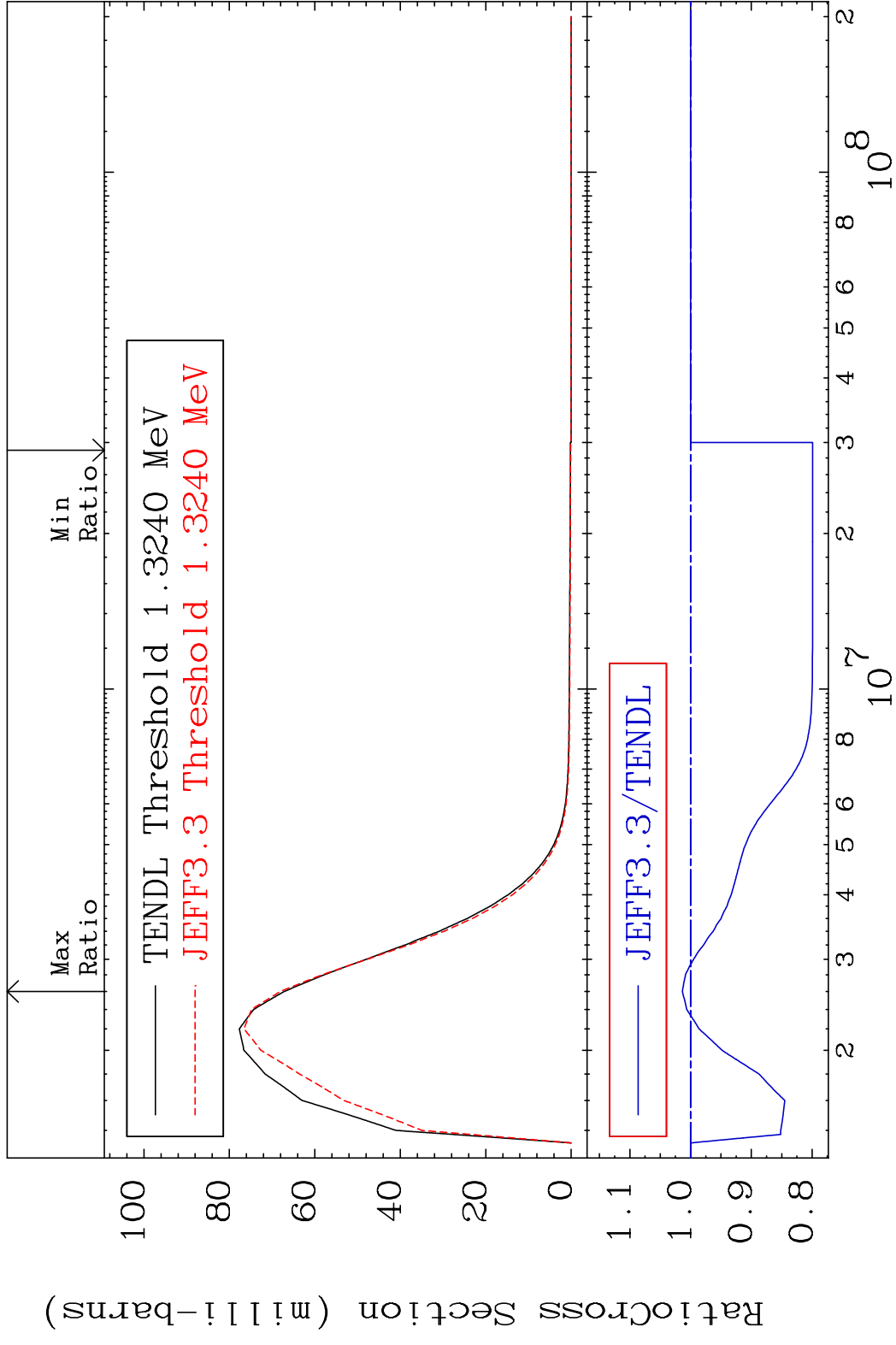
MAT 5722 MT= 63 (n, n') Level 57-La-137
 Cross Section -96.20 To 73.62 %



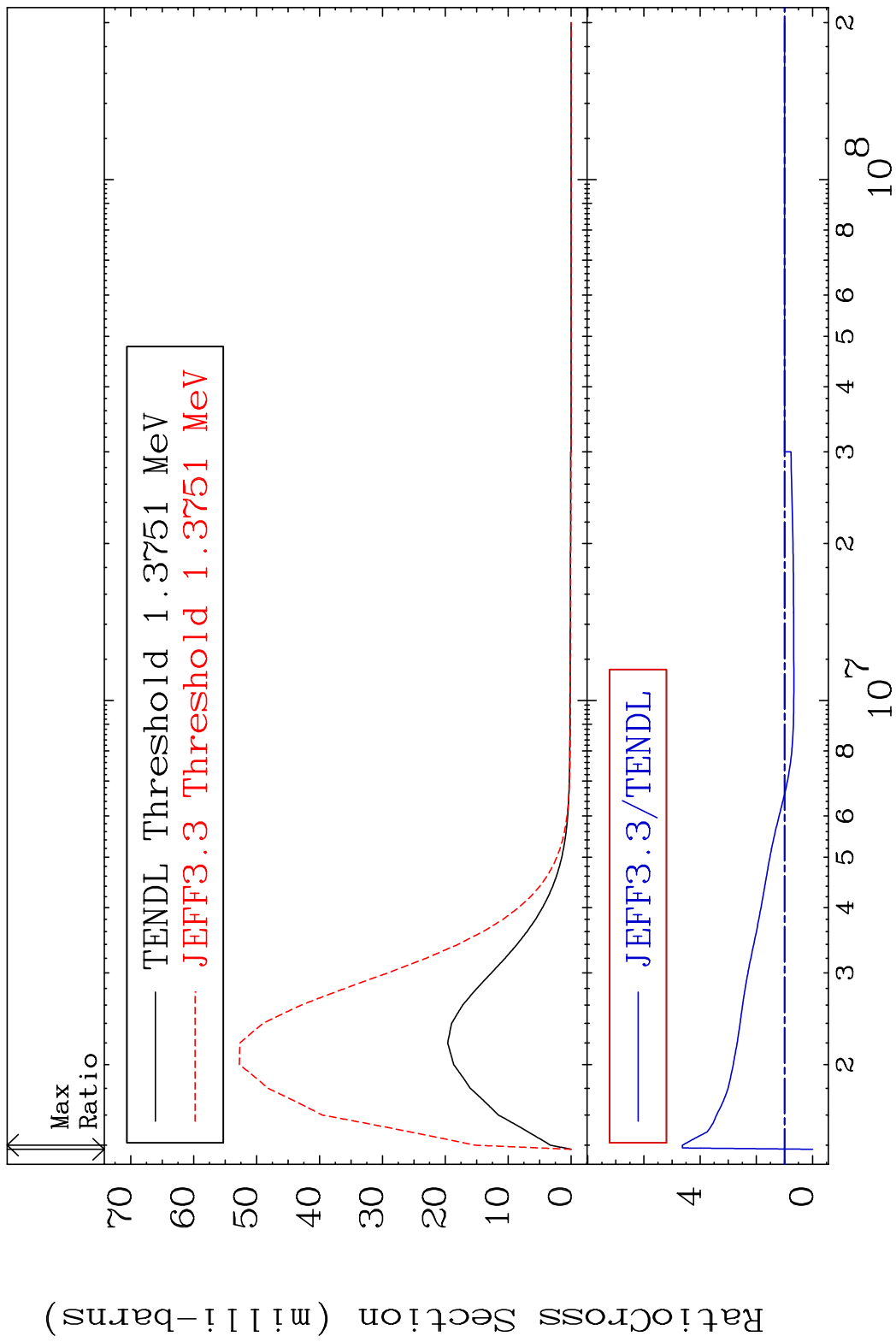
MAT 5722 MT= 64 (n, n') Level 57-La-137
 Cross Section -100.0 To 0.000 %



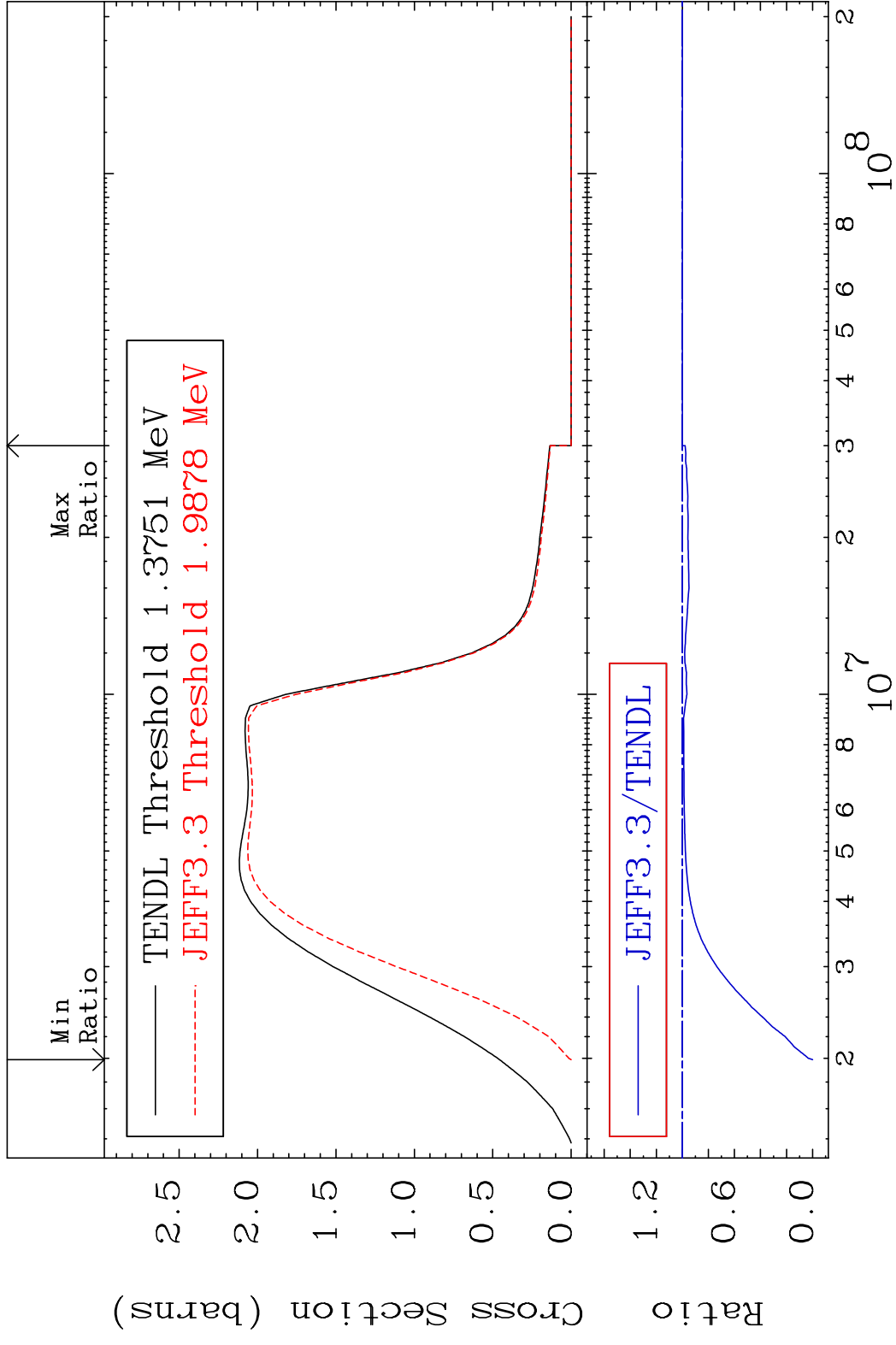
MAT 5722 MT= 65 (n,n') Level 57-La-137
 Cross Section -20.08 To 1.355 %



MAT 5722 MT= 66 (n,n') Level 57-La-137
 Cross Section -100.0 To 363.3 %



MAT 5722 (n, n') Continuum 57-La-137
 Cross Section -100.0 To 0.000 %

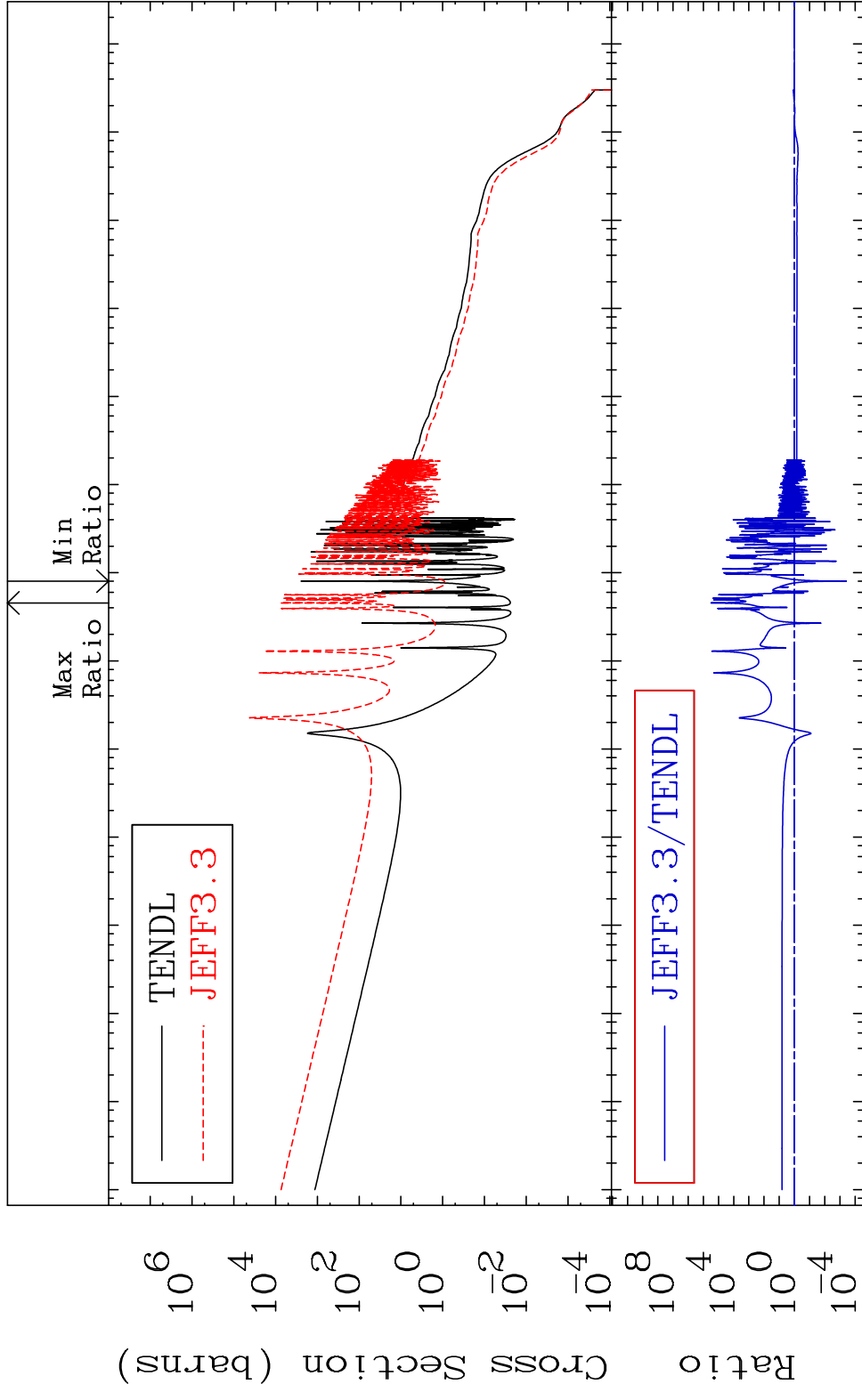


MAT 5722

(n, γ)

57-La-137

Cross Section -99.96 To 9999. %



37

Incident Energy (eV)

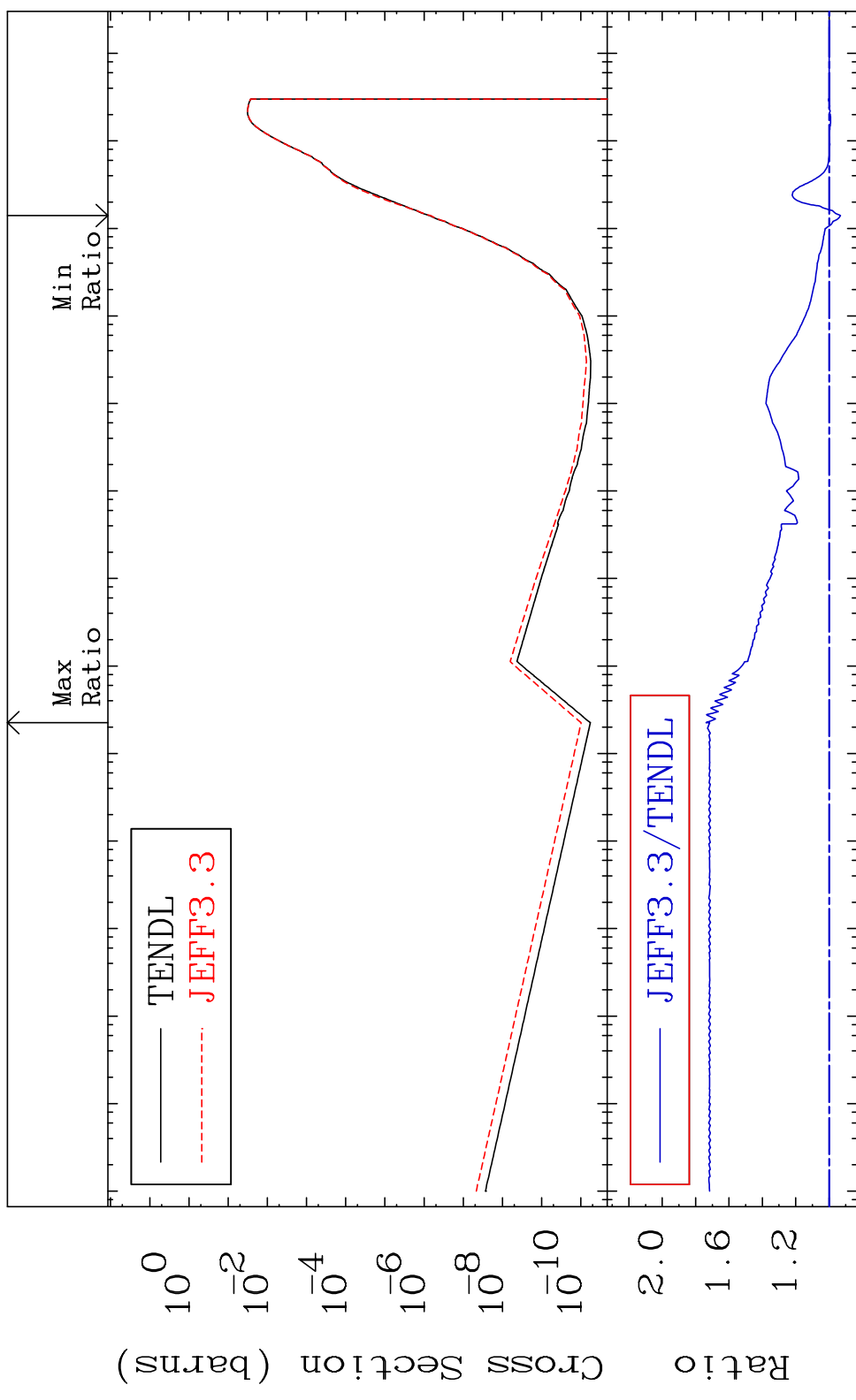
57-La-137

MAT 5722

(n, p)

57-La-137

Cross Section -6.817 To 73.92 %

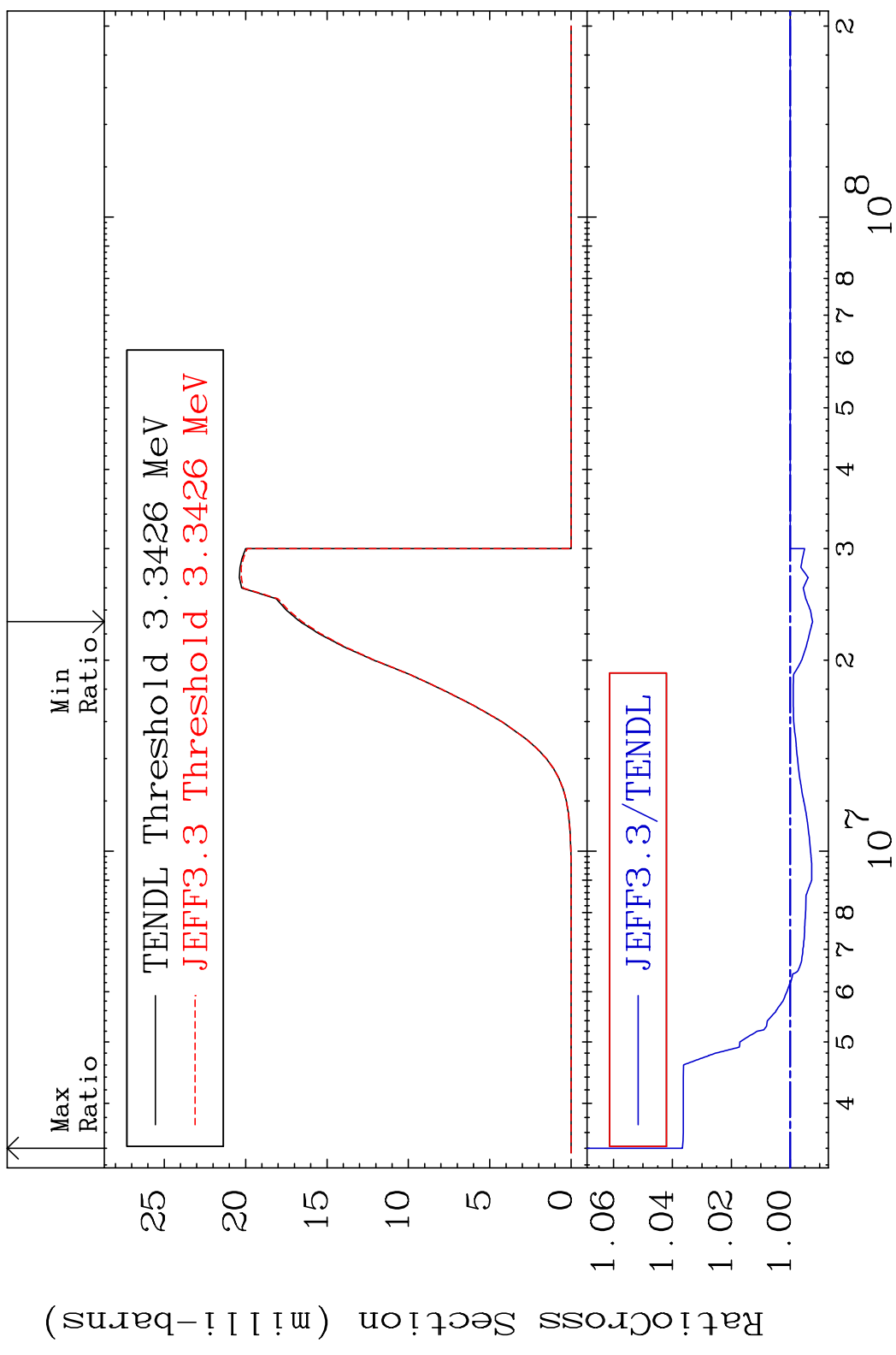


MAT 5722

(n,d)

57-La-137

Cross Section -0.760 To 3.664 %

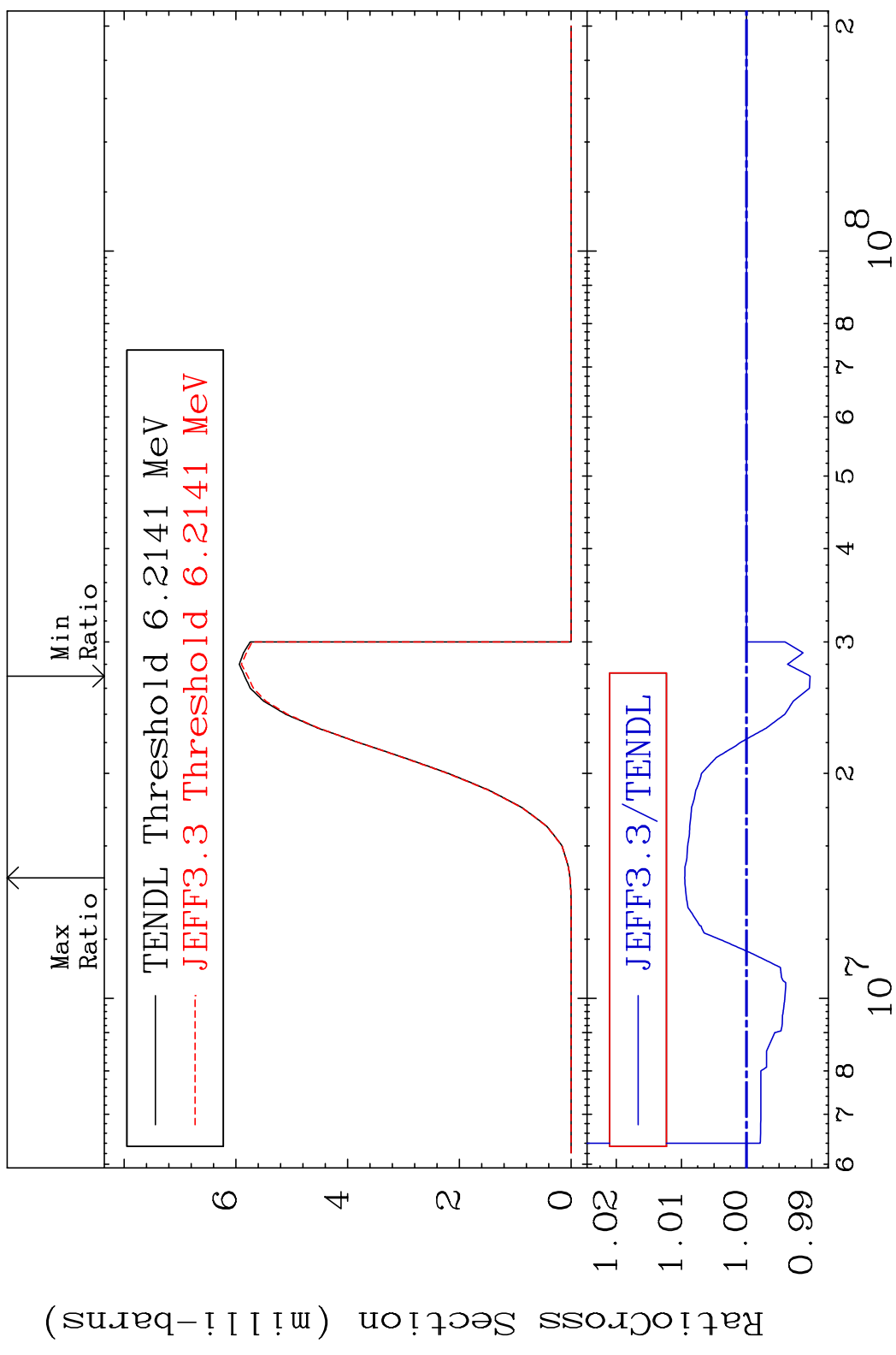


MAT 5722

(n, t)

57-La-137

Cross Section -0.977 To 0.949 %



40

Incident Energy (eV)

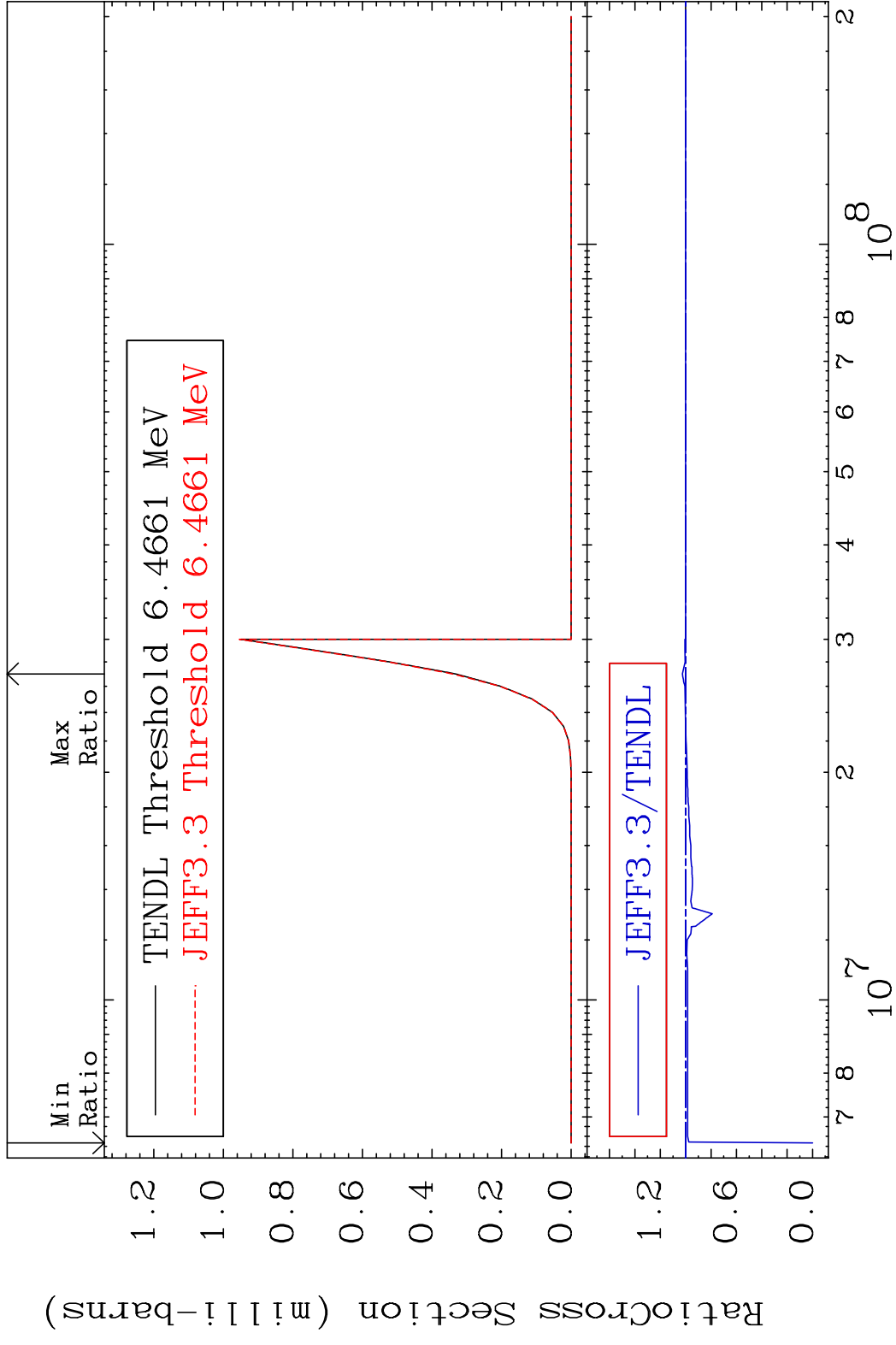
57-La-137

MAT 5722

(n, He-3)

57-La-137

Cross Section -100.0 To 2.591 %

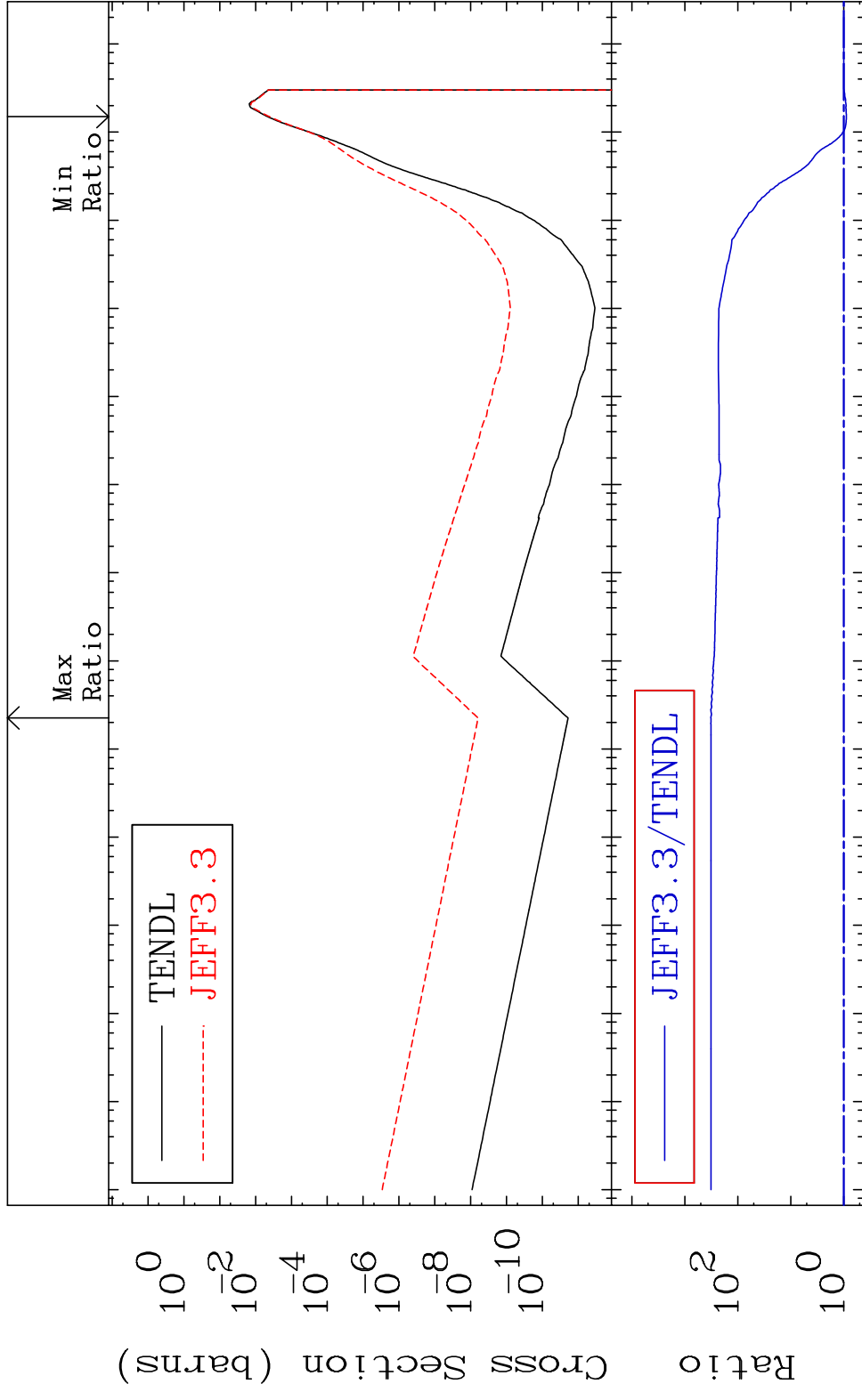


MAT 5722

(n, α)

57-La-137

Cross Section -10.41 To 9999. %



Cross Section (barns)

Ratio

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

42

Incident Energy (eV)

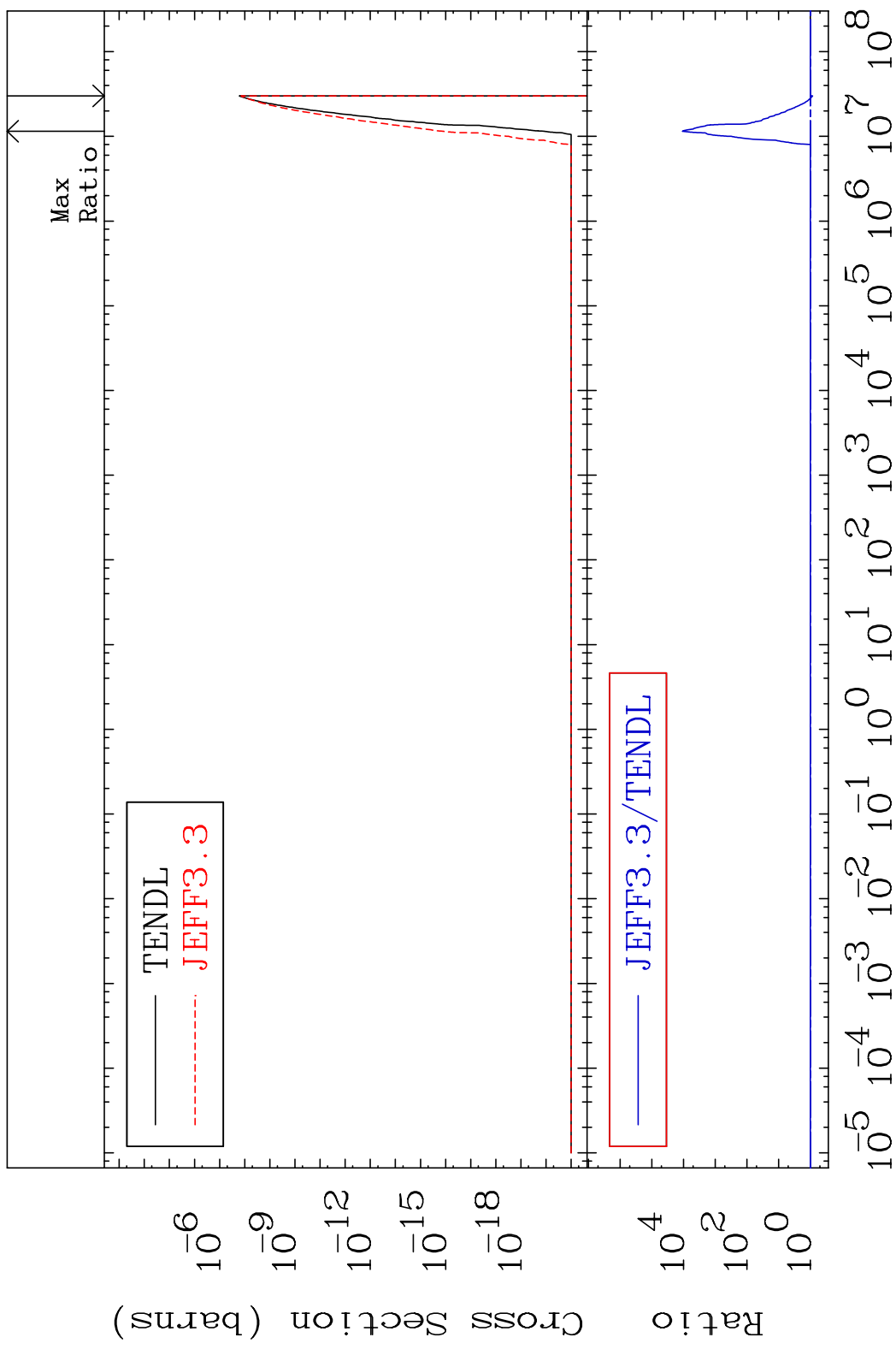
57-La-137

MAT 5722

(n,2α)

57-La-137

Cross Section -15.11 To 9999. %



43

Incident Energy (eV)

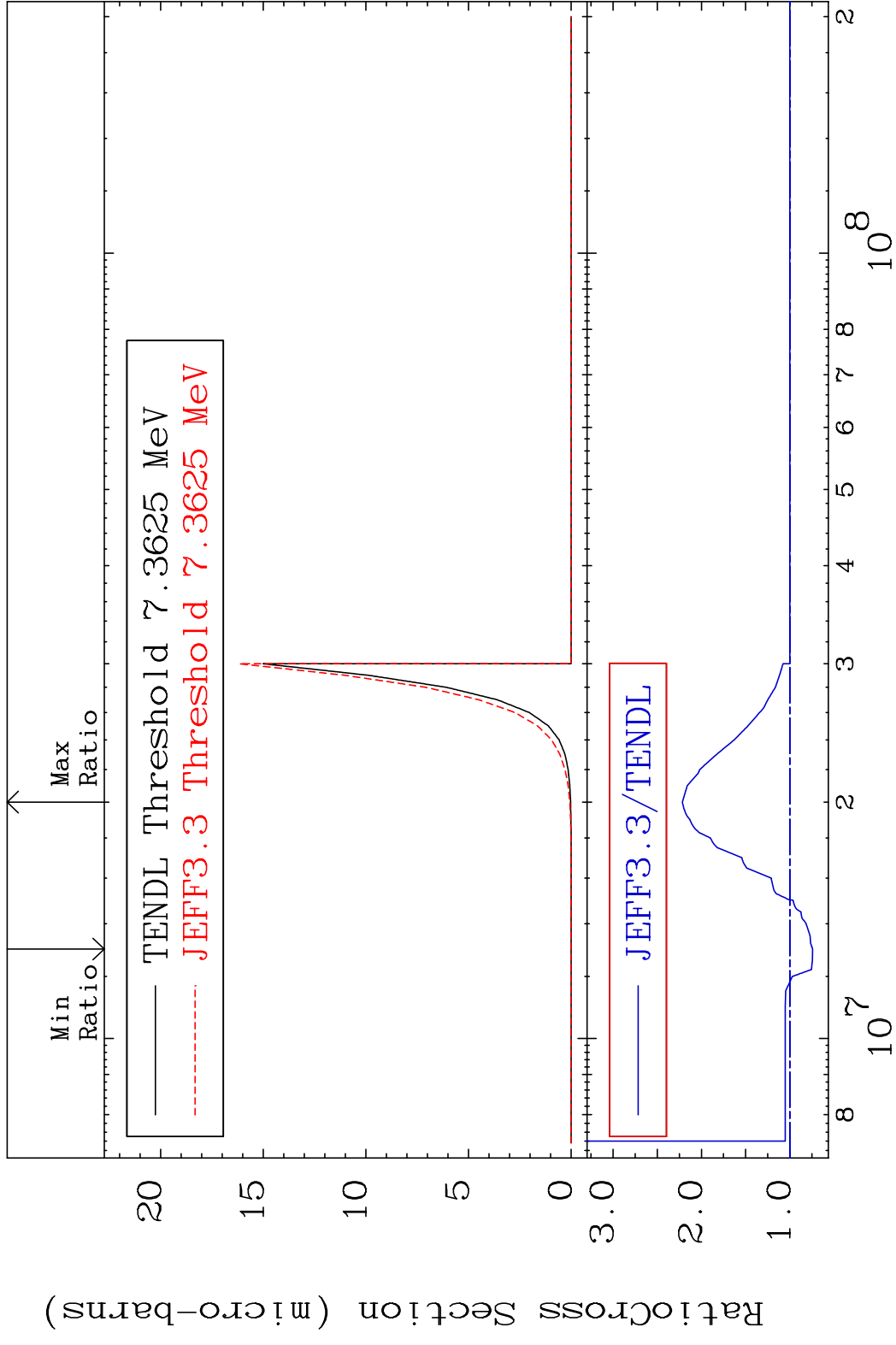
57-La-137

MAT 5722

(n,2p)

57-La-137

Cross Section -25.66 To 121.6 %

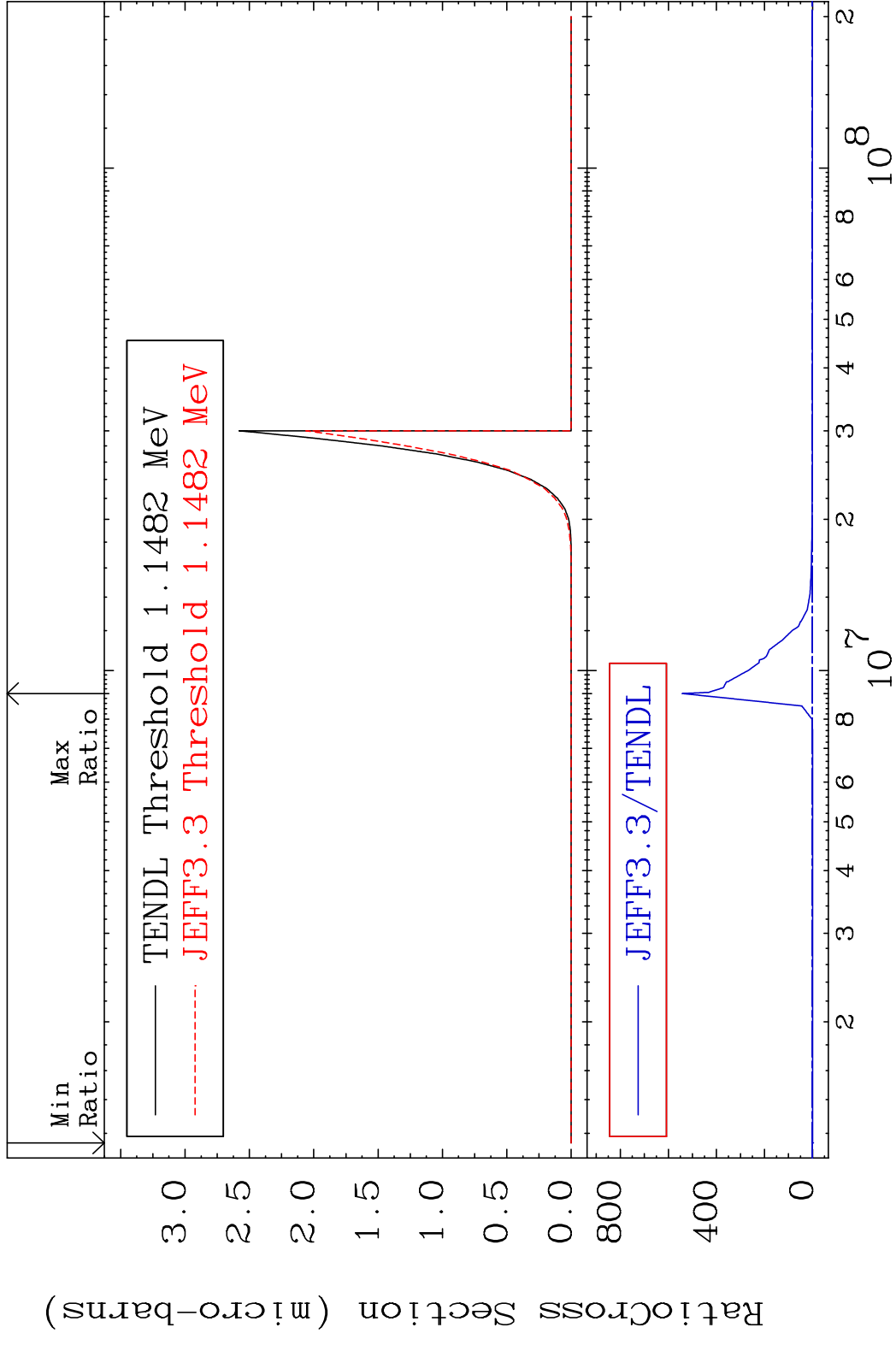


MAT 5722

(n,p) α

57-La-137

Cross Section -100.0 To 9999. %

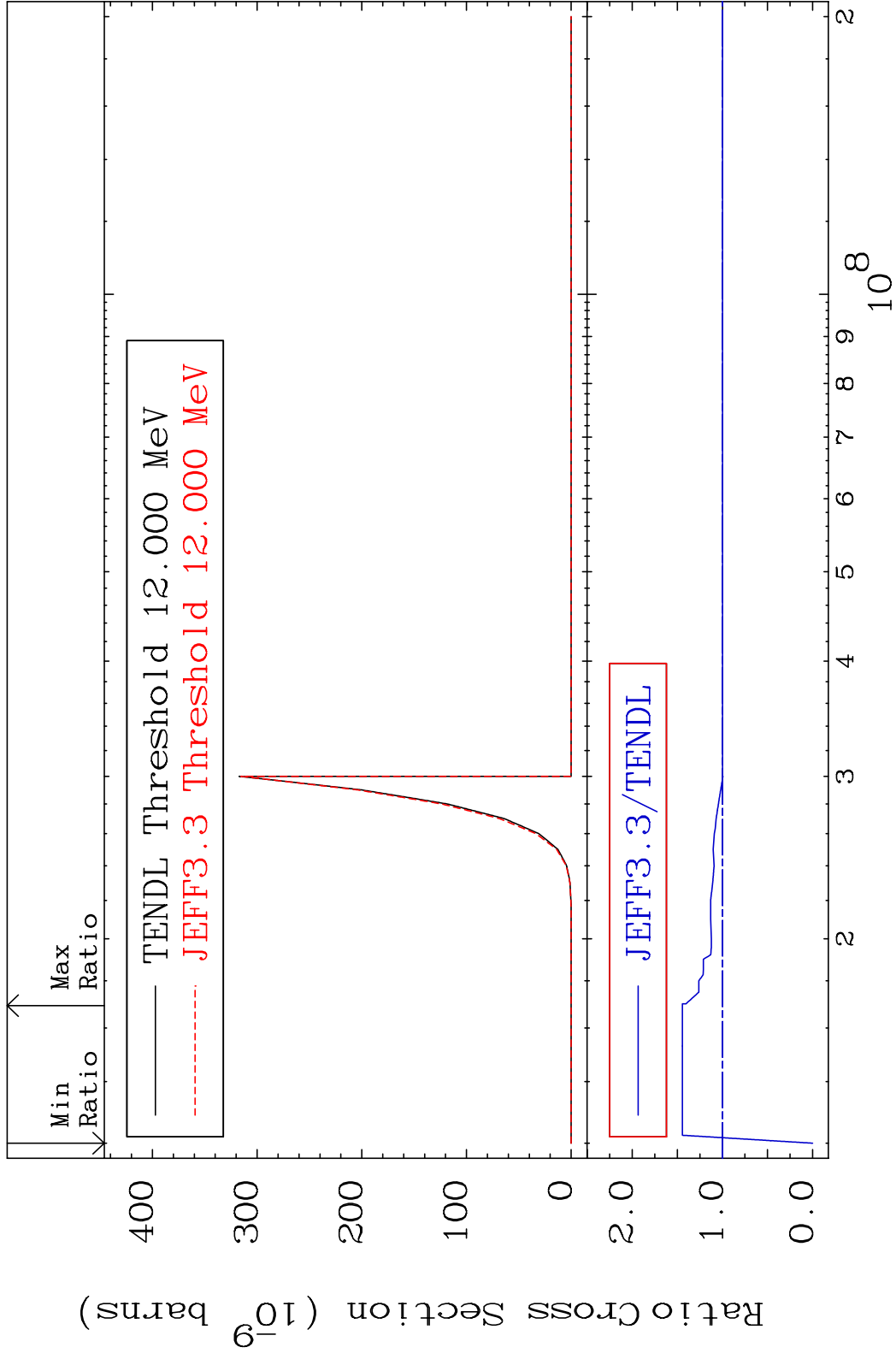


MAT 5722

(n,p) d

57-La-137

Cross Section -100.0 To 44.45 %

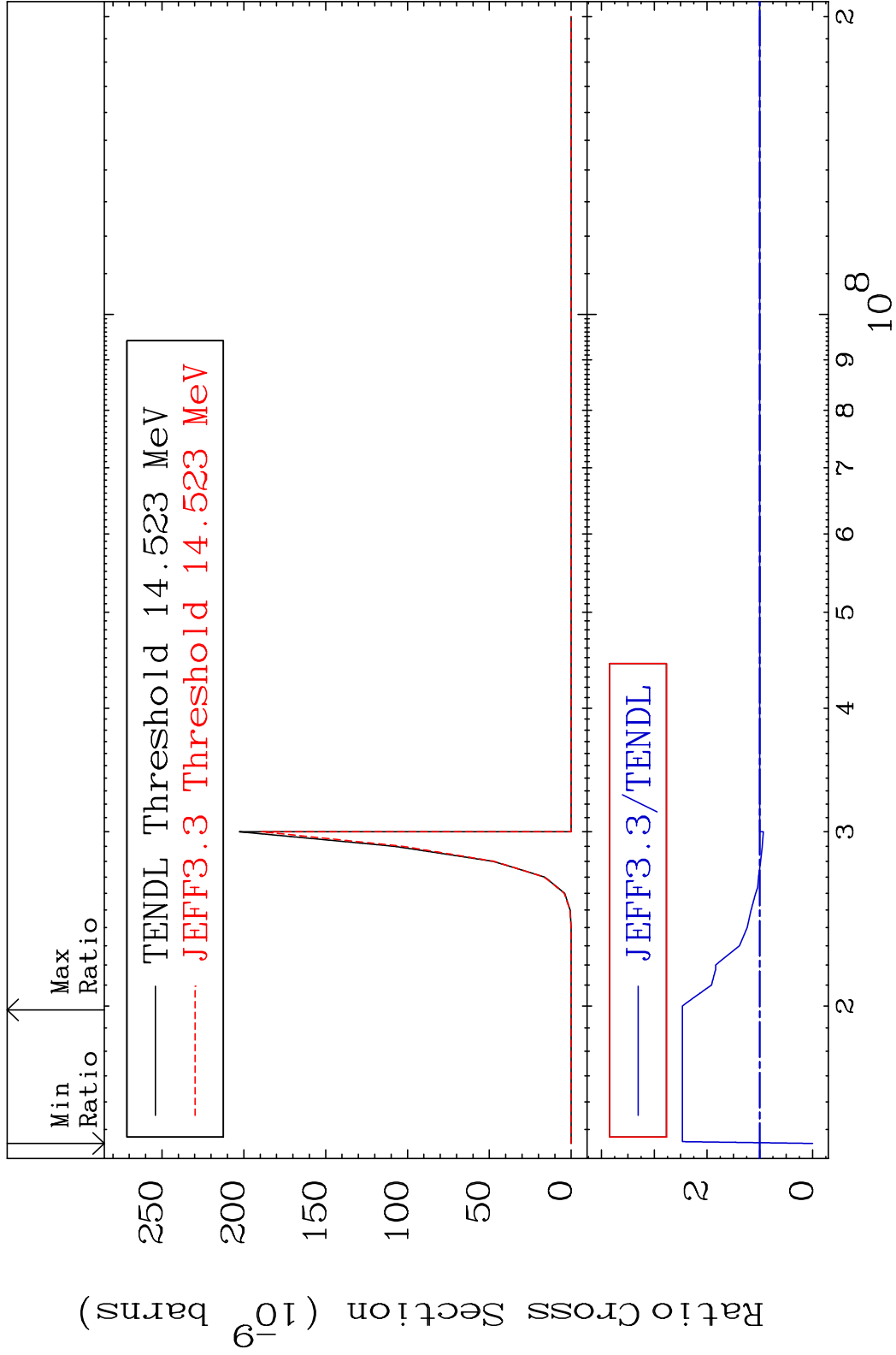


MAT 5722

(n,p) t

57-La-137

Cross Section -100.0 To 146.8 %

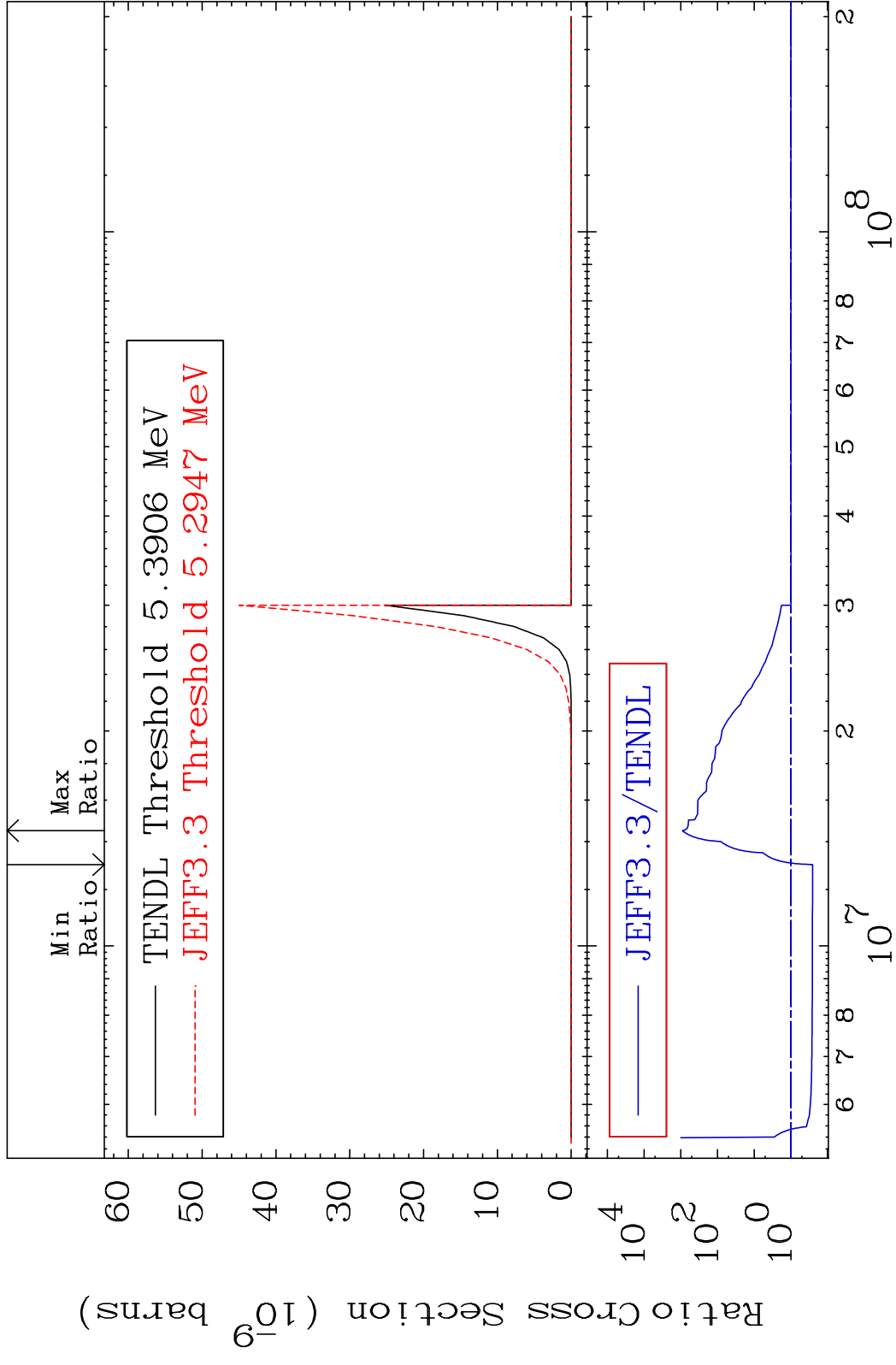


MAT 5722

(n, d) α

57-La-137

Cross Section -74.41 To 9999. %



48

Incident Energy (eV)

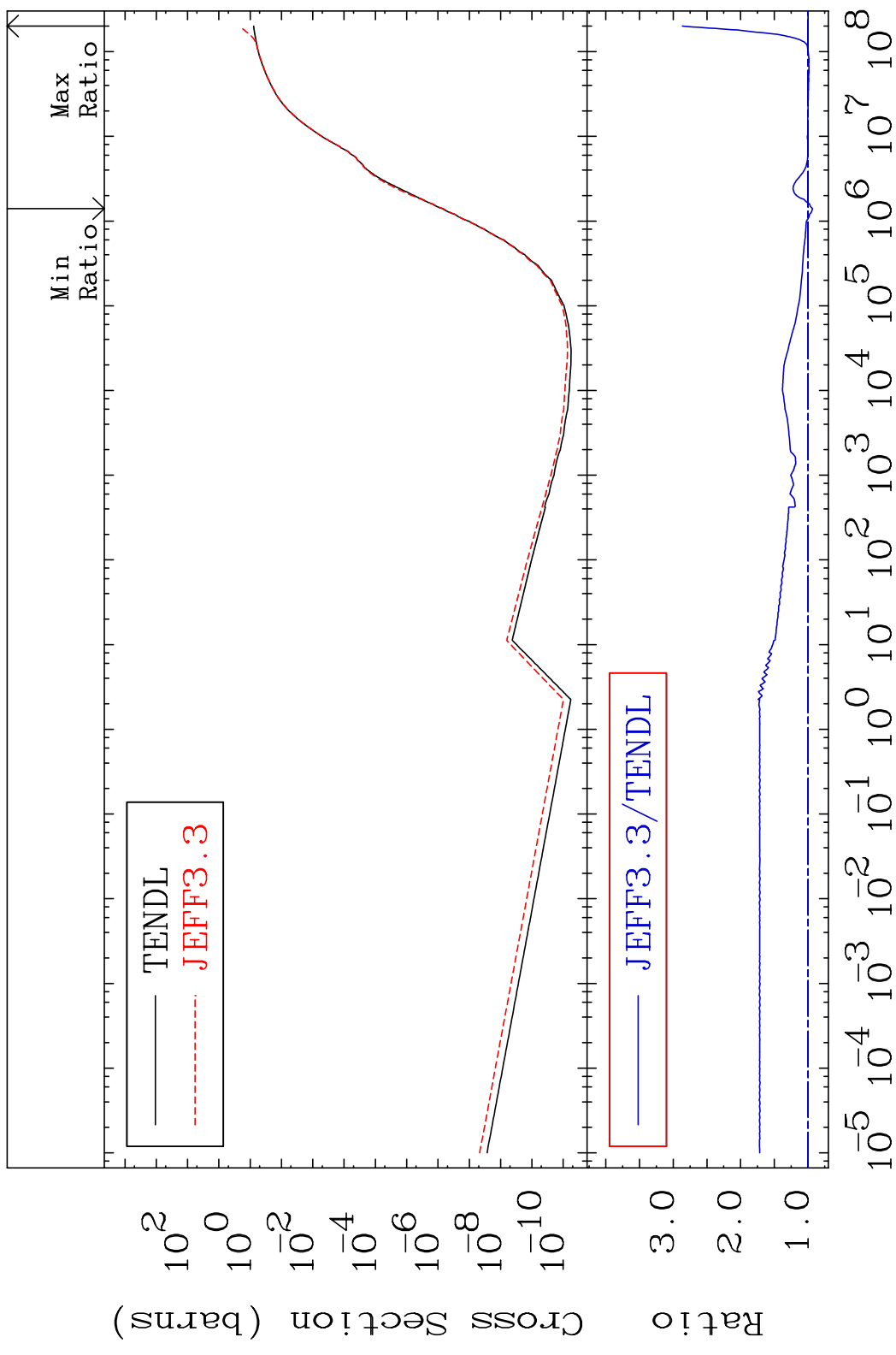
57-La-137

MAT 5722

Hydrogen Production

57-La-137

Cross Section -6.817 To 186.5 %



49

Incident Energy (eV)

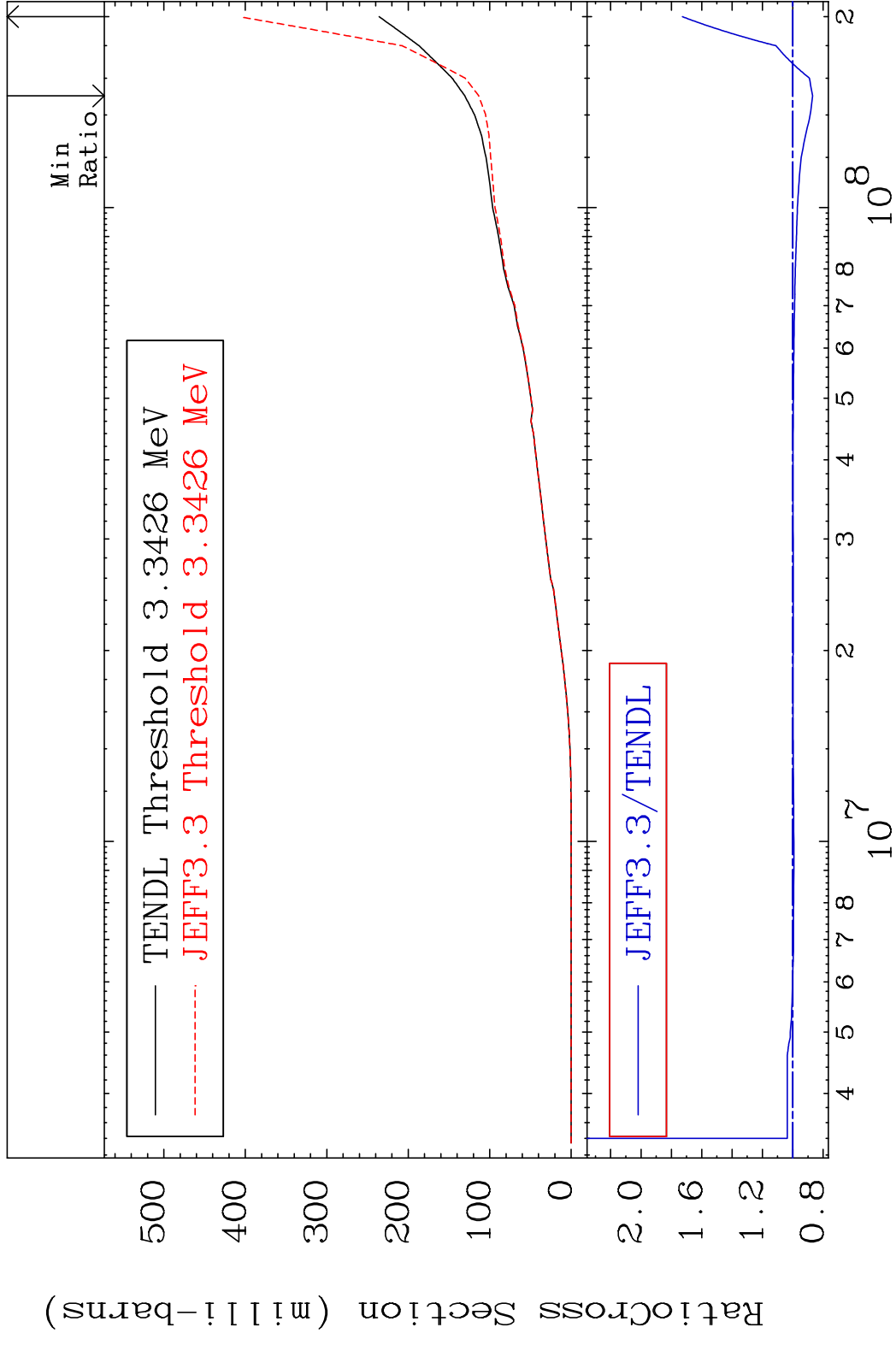
57-La-137

MAT 5722

Deuterium Production

57-La-137

Cross Section -13.03 To 72.76 %

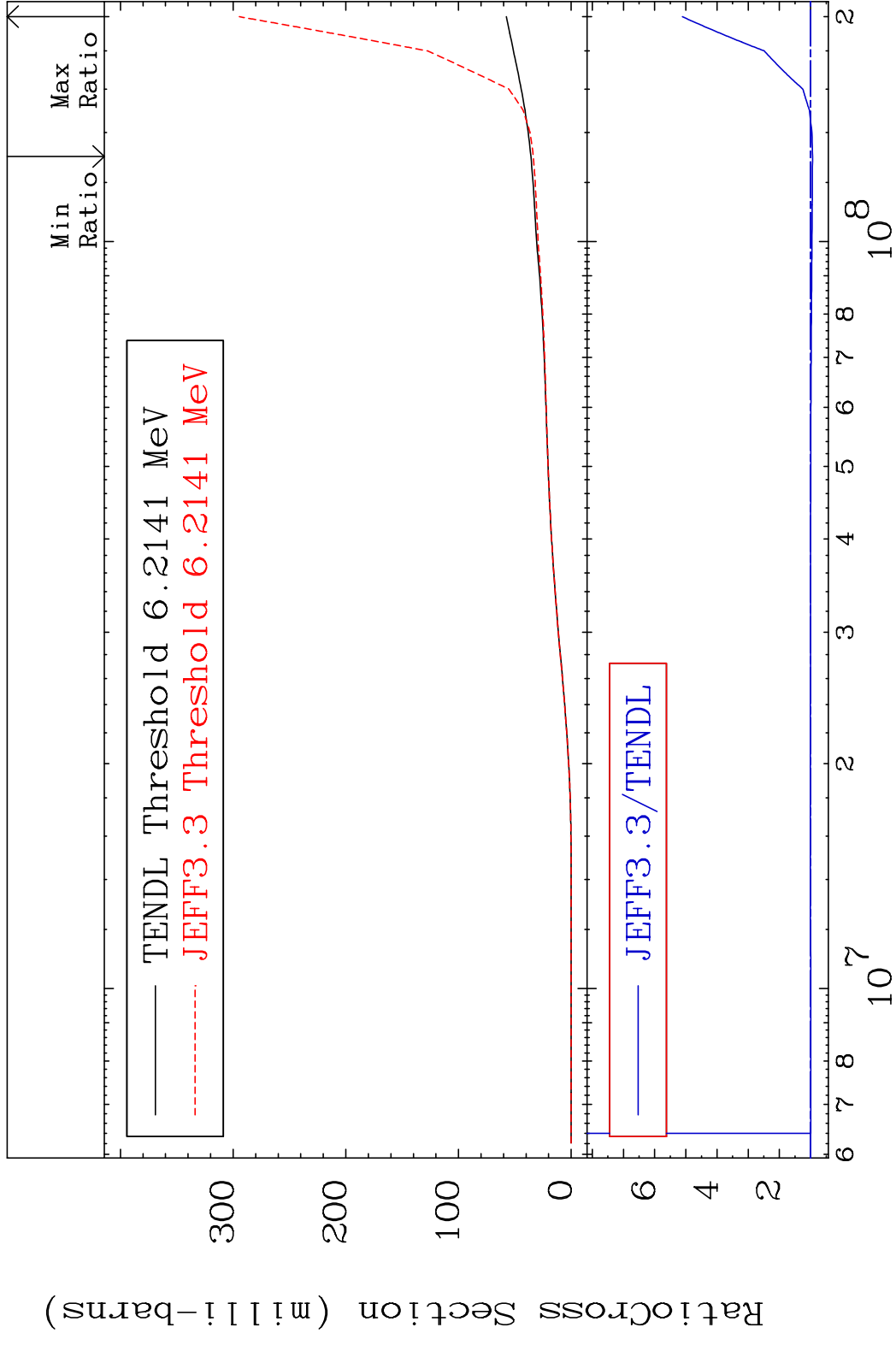


MAT 5722

Tritium Production

57-La-137

Cross Section -6.217 To 411.2 %

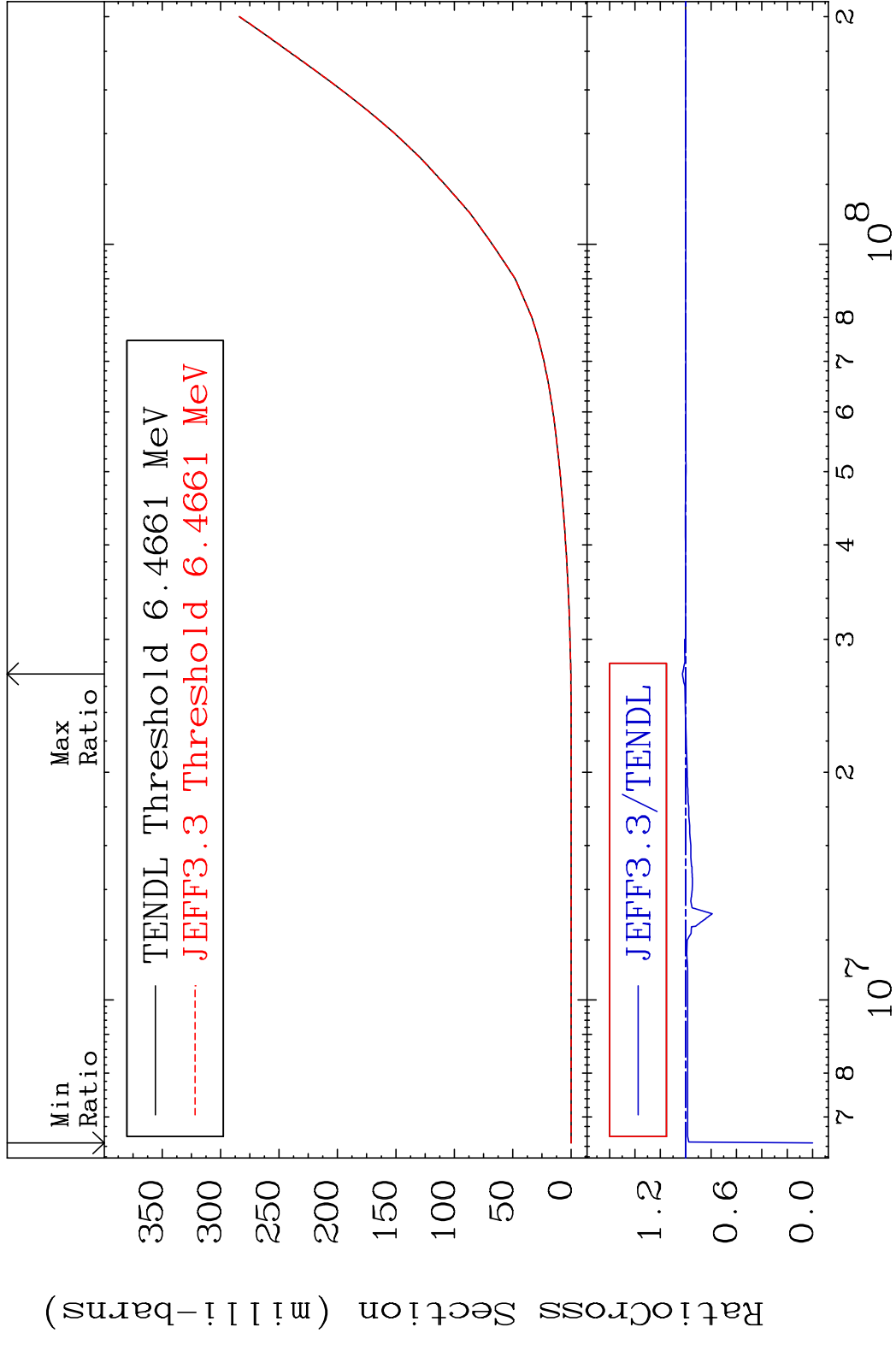


MAT 5722

He-3 Production

57-La-137

Cross Section -100.0 To 2.614 %

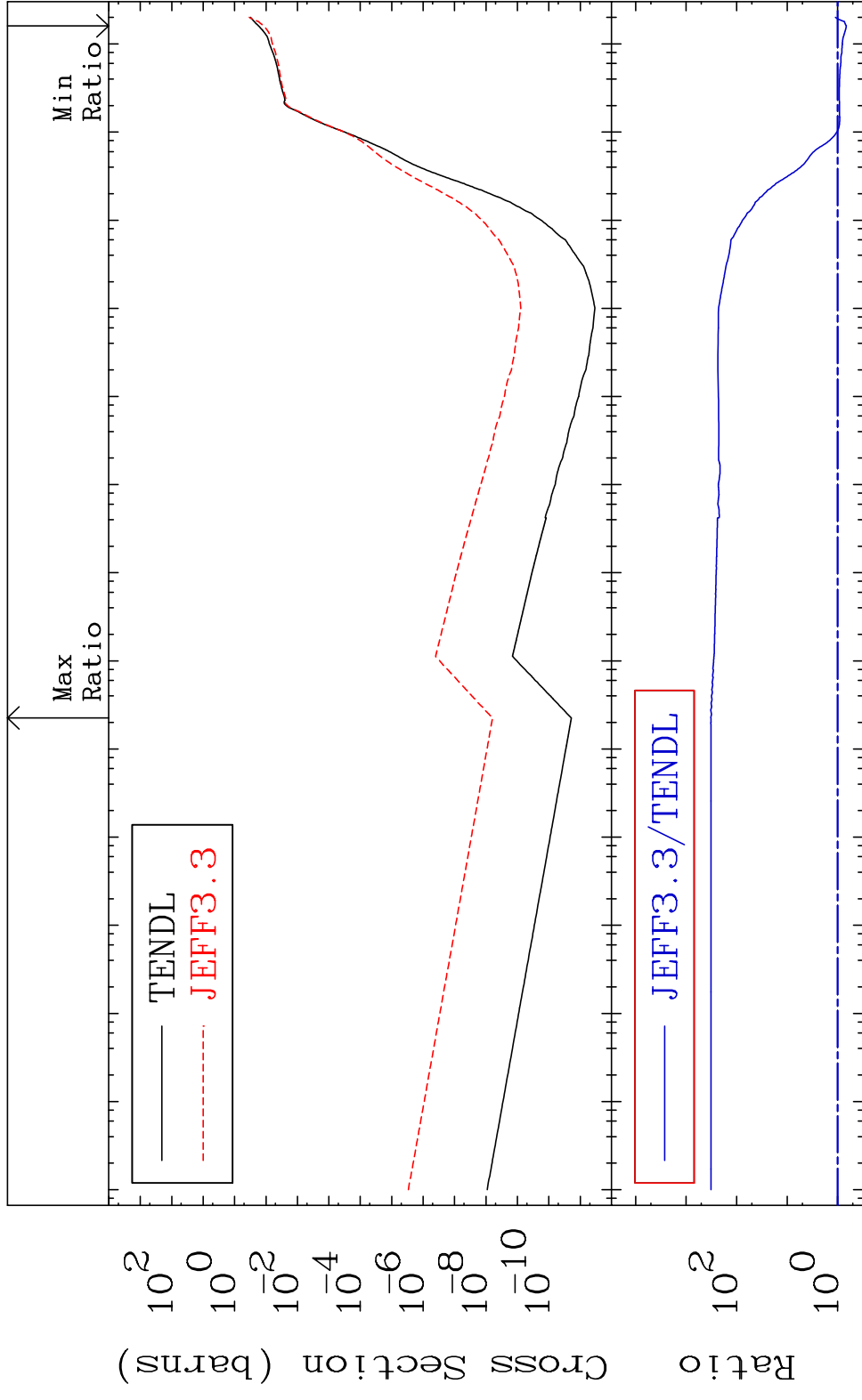


MAT 5722

He-4 Production

57-La-137

Cross Section -32.66 To 9999. %



Cross Section (barns)
Ratio

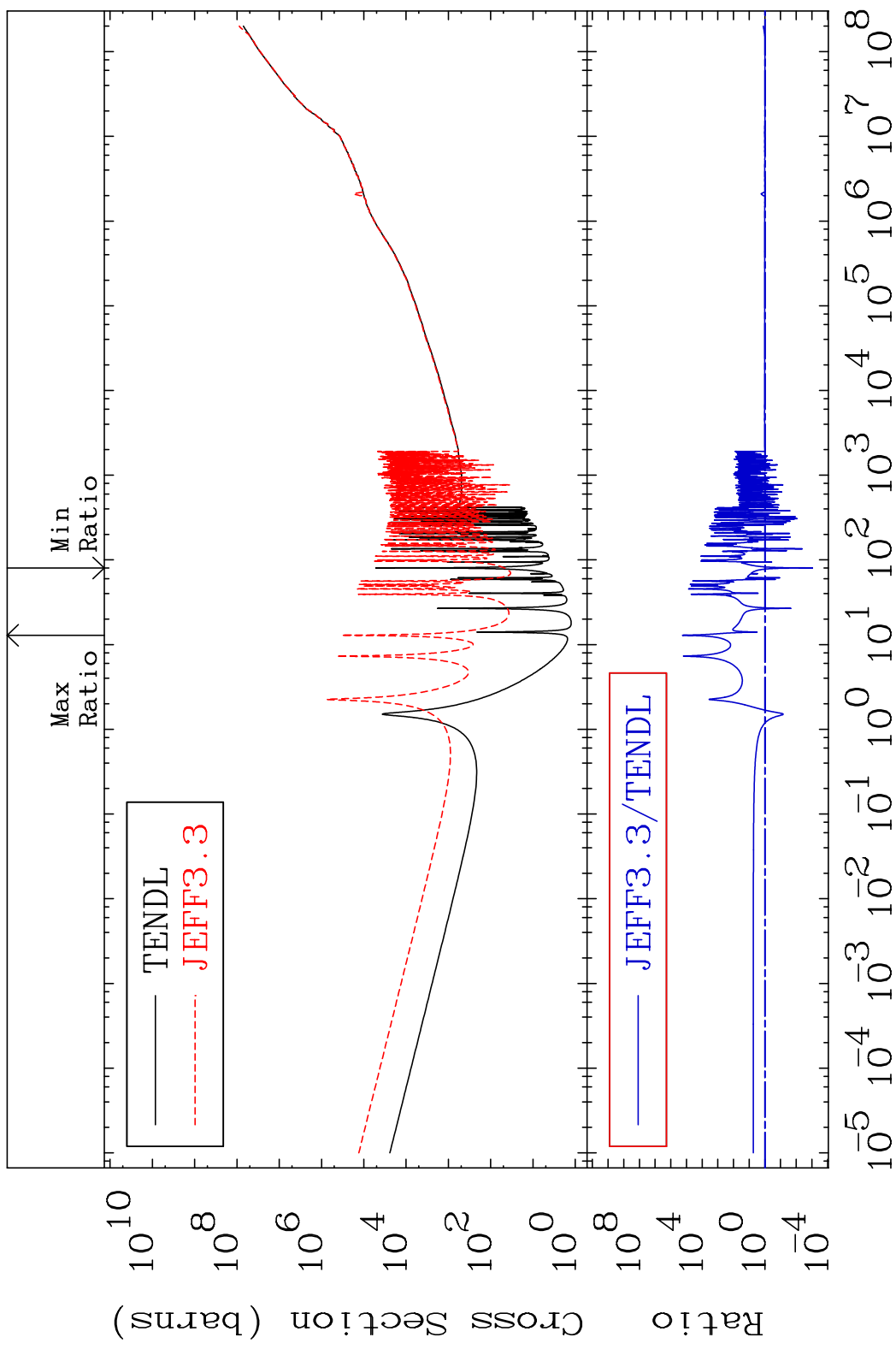
Incident Energy (eV)

MAT 5722

Kerma total (eV-barns)

57-La-137

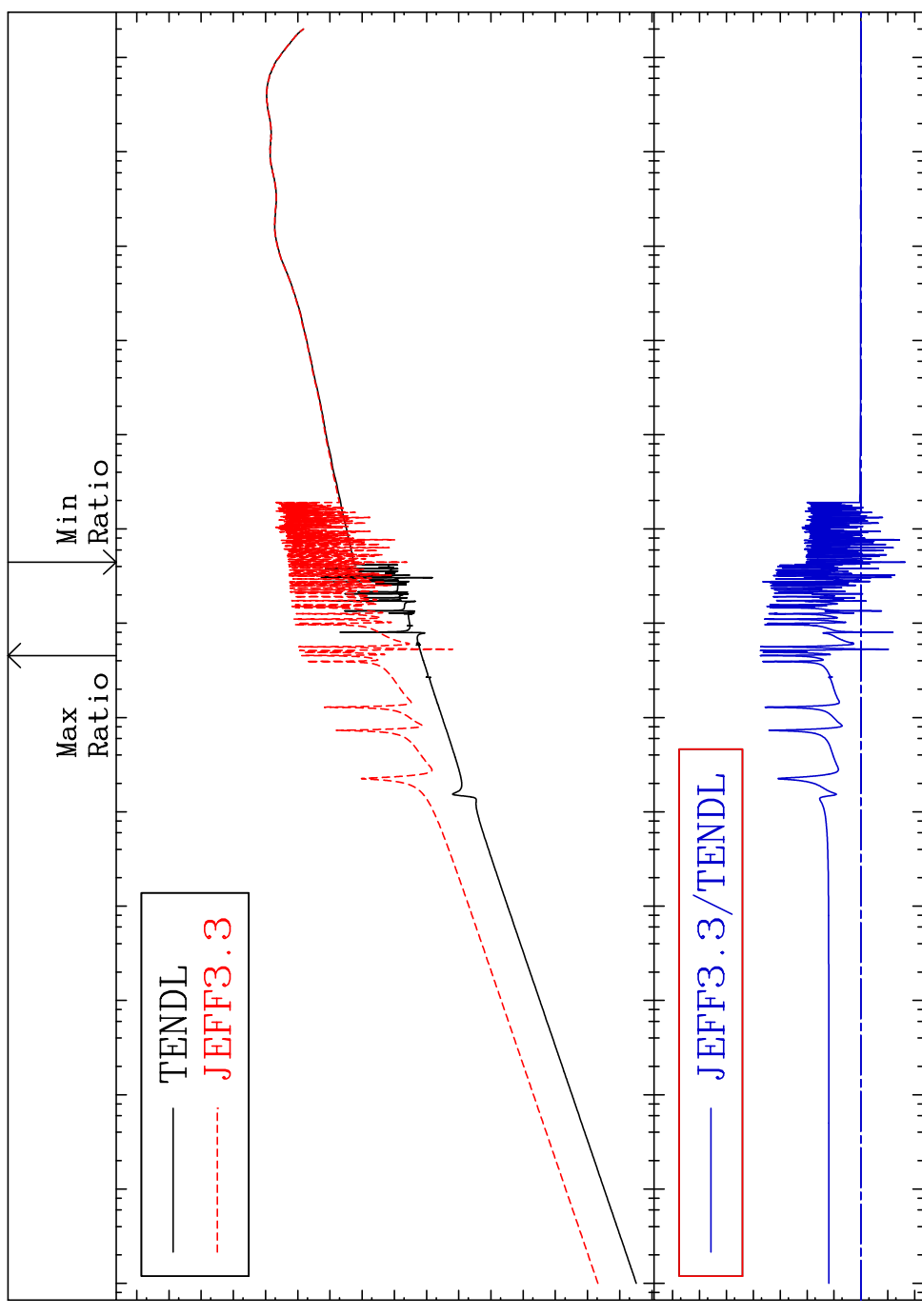
Cross Section -99.91 To 9999. %



MAT 5722

Kerma elastic Cross Section -97.76 To 9999. %

57-La-137



Cross Section (barns)
10⁸
10⁶
10⁴
10²
10⁰
10⁻²
10⁻⁴
10⁻⁶
Ratio
10³
10⁰

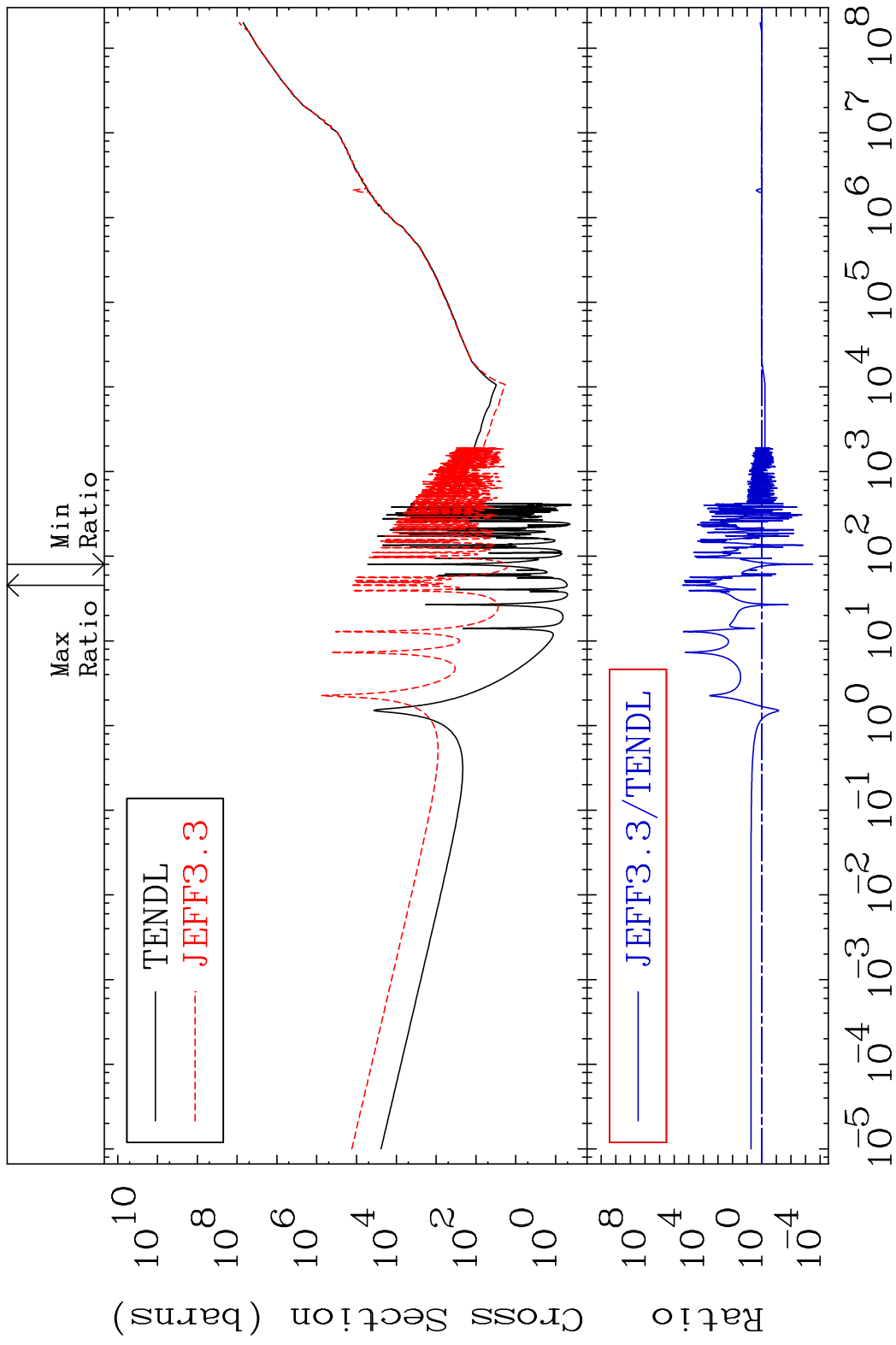
10⁻⁵ 10⁻⁴ 10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

55

Incident Energy (eV)

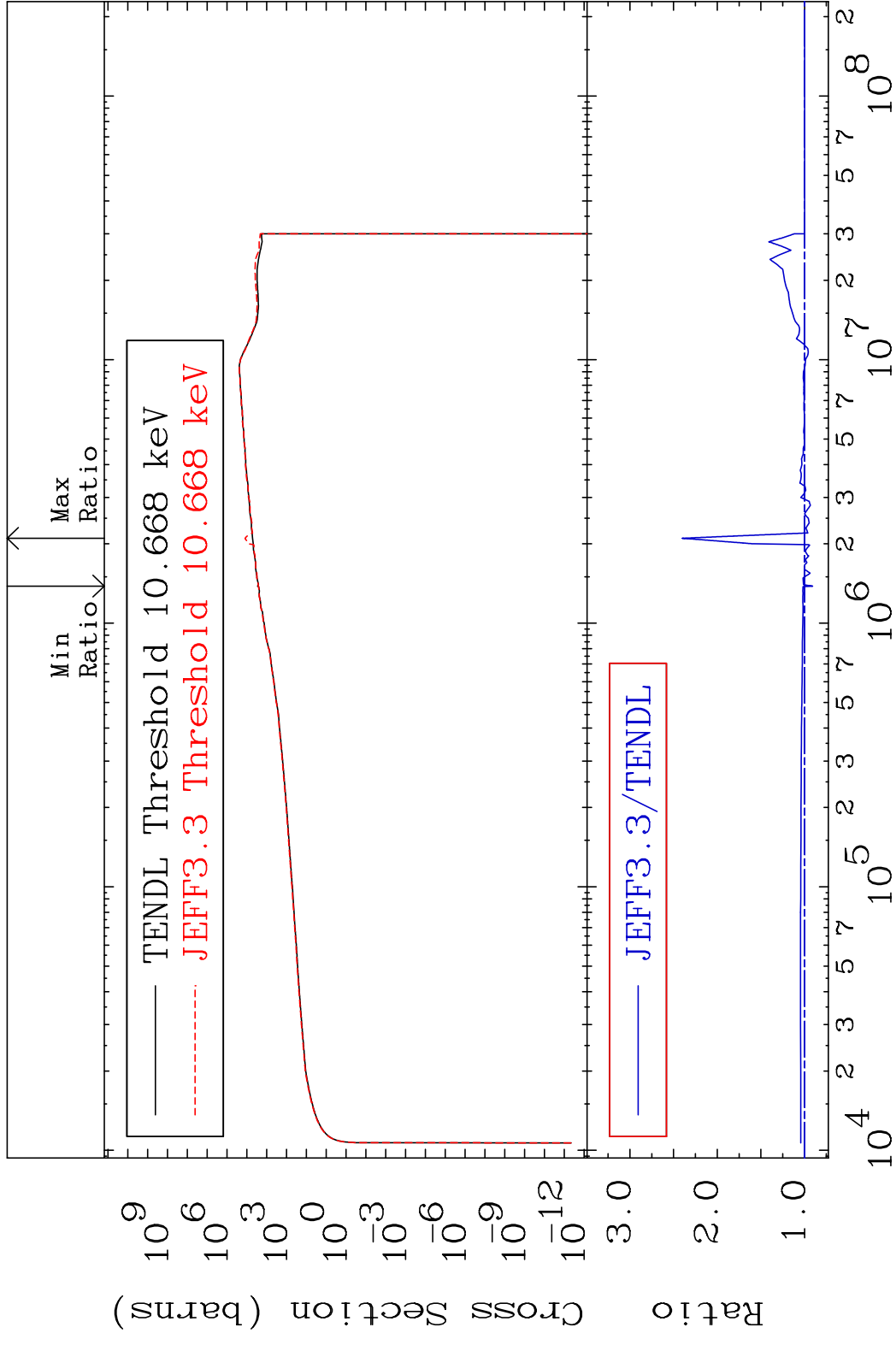
57-La-137

MAT 5722 Kerma non-elastic (all but mt2) 57-La-137
 Cross Section -99.97 To 9999. %



MAT 5722

Kerma inelastic (mt51-91) 57-La-137
Cross Section -9.149 To 140.0 %

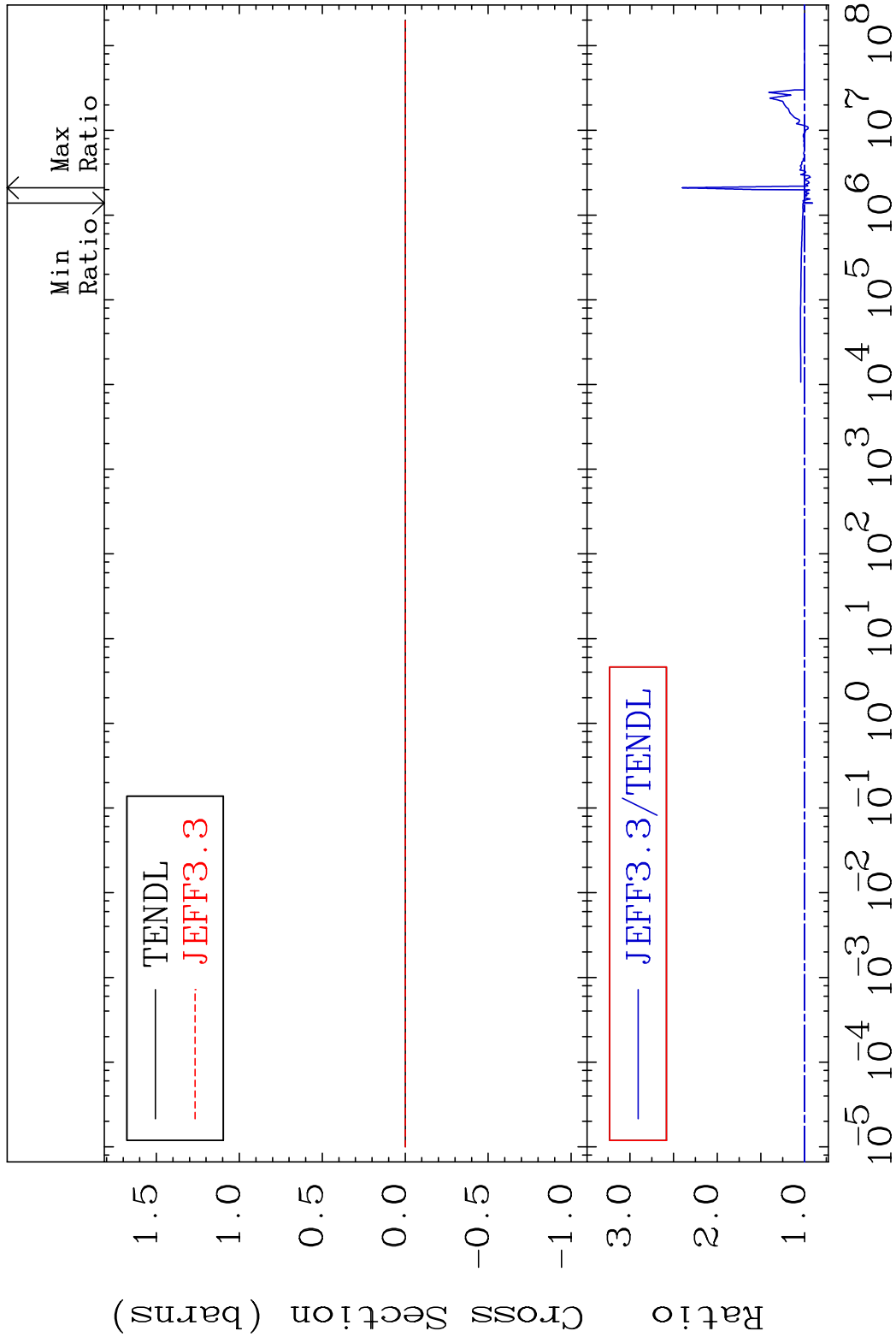


57

Incident Energy (eV)

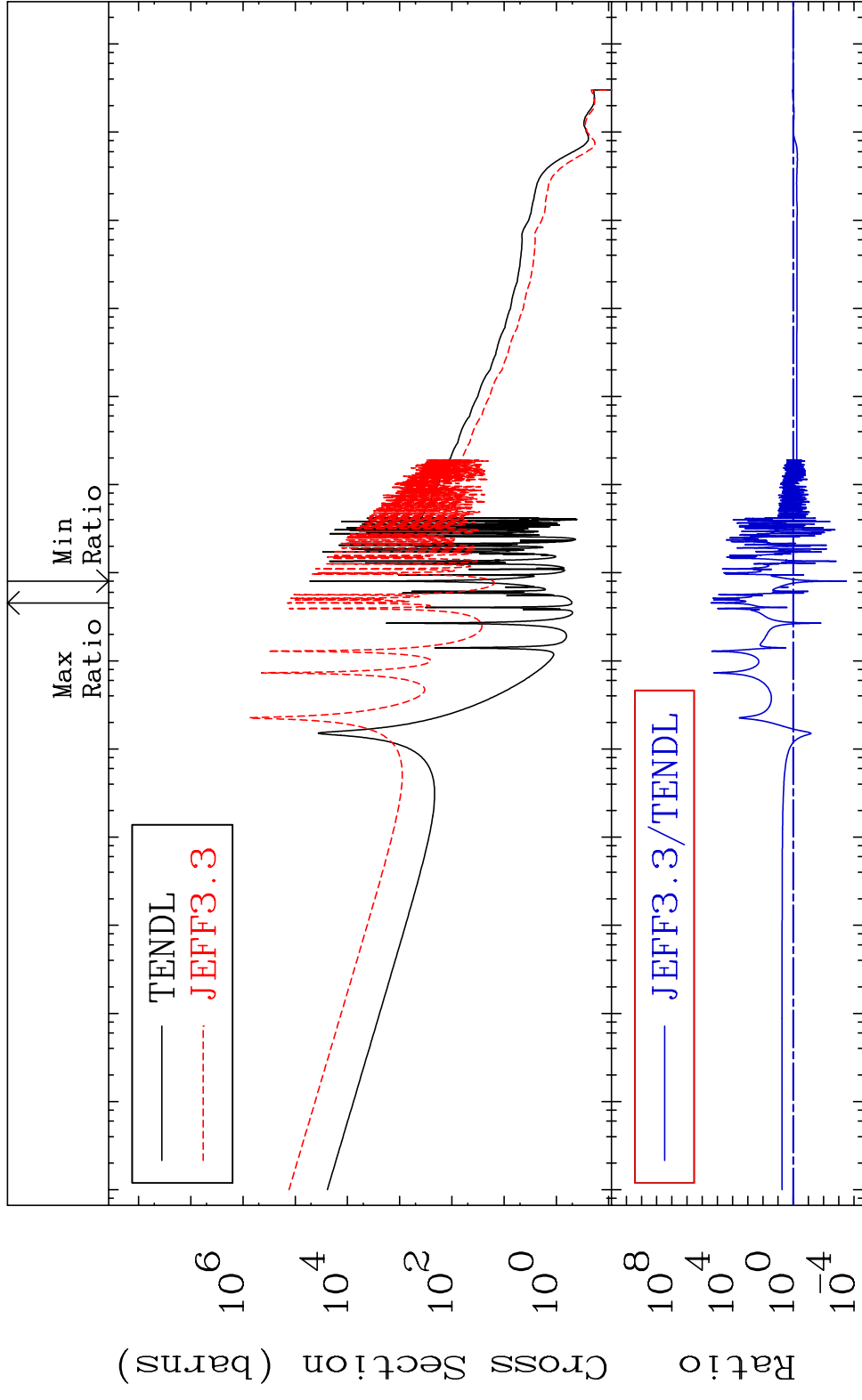
57-La-137

MAT 5722 Kerma fission (mt18 or mt19-20-21-38) 57-La-137
 Cross Section -9.149 To 140.0 %



MAT 5722

Kerma capture (mt102) 57-La-137
Cross Section -99.97 To 9999. %



59

Incident Energy (eV)

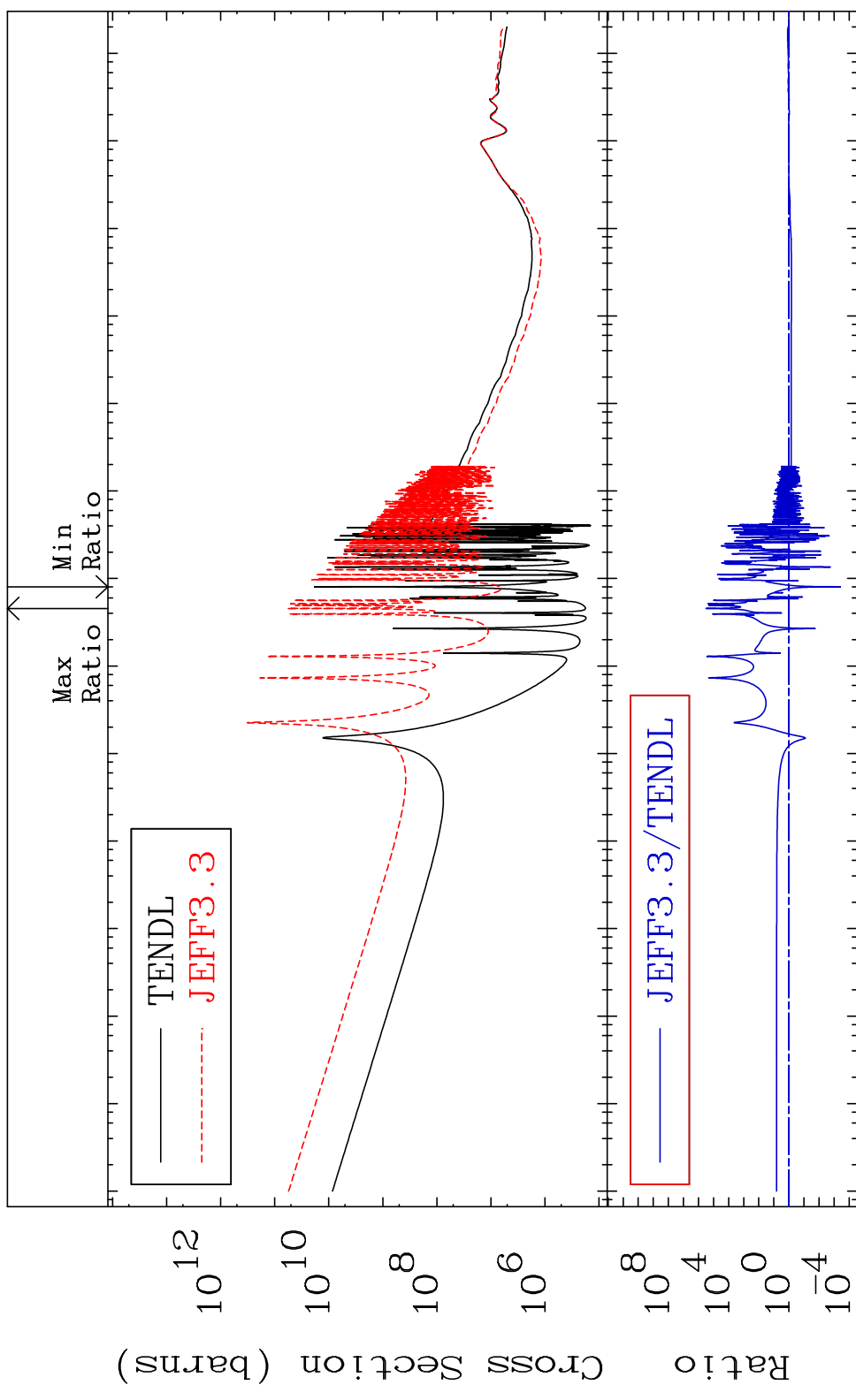
57-La-137

MAT 5722

Total photon (eV-barns)

57-La-137

Cross Section -99.96 To 9999. %

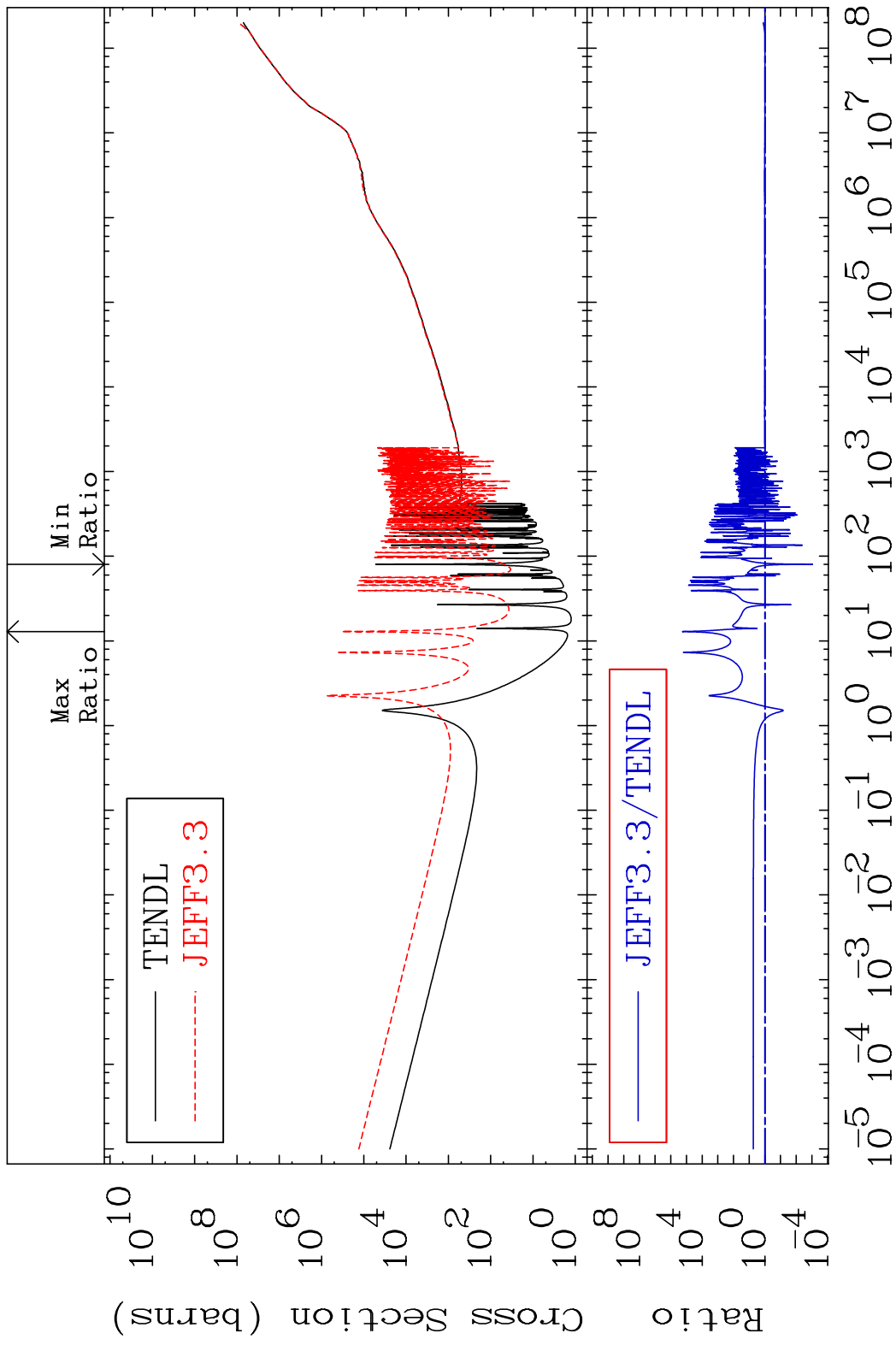


60

Incident Energy (eV)

57-La-137

MAT 5722 Total kinematic kerma (high limit) 57-La-137
 Cross Section -99.91 To 9999. %

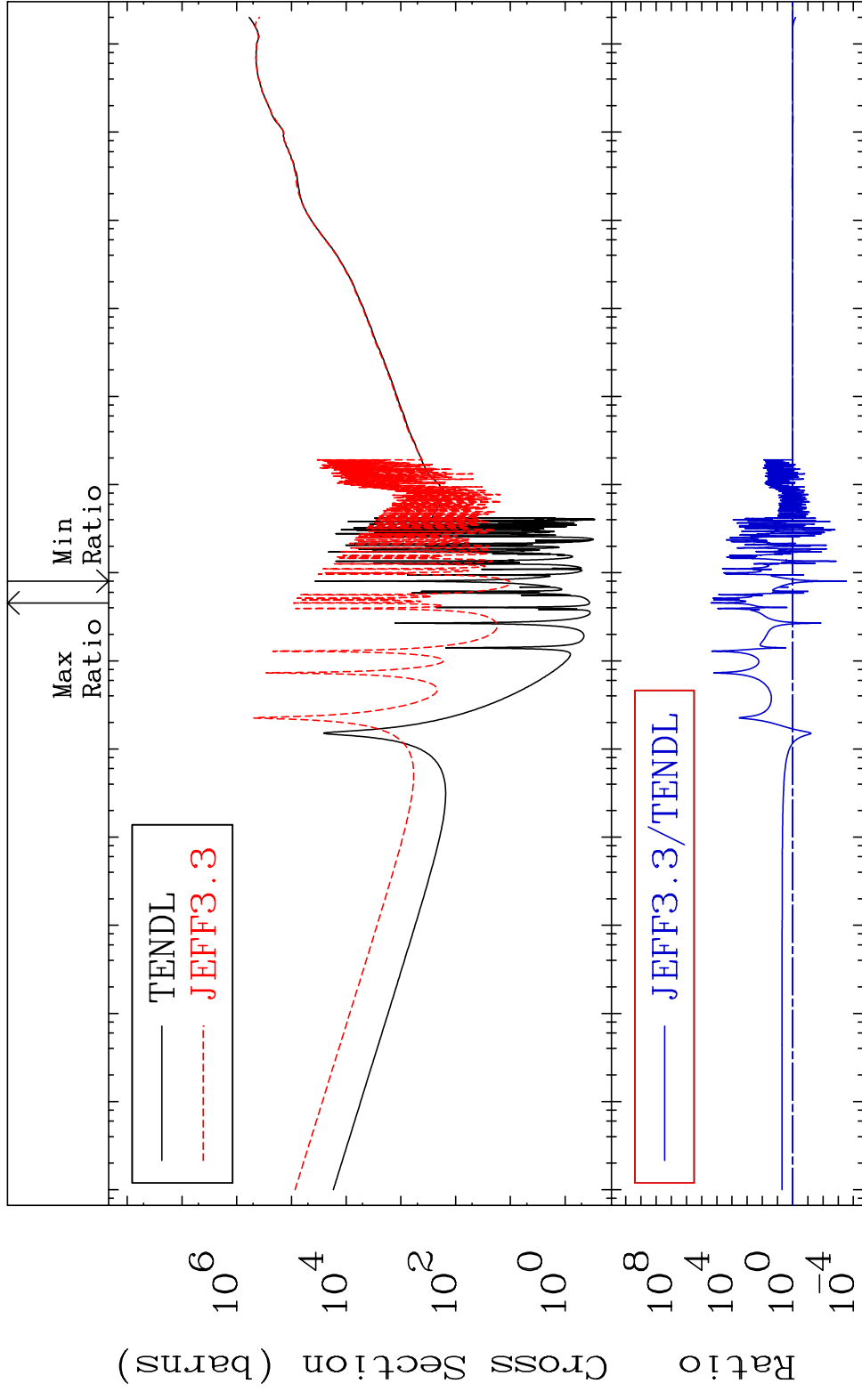


MAT 5722

Dpa total (eV-barns)

57-La-137

Cross Section -99.97 To 9999. %



62

Incident Energy (eV)

57-La-137

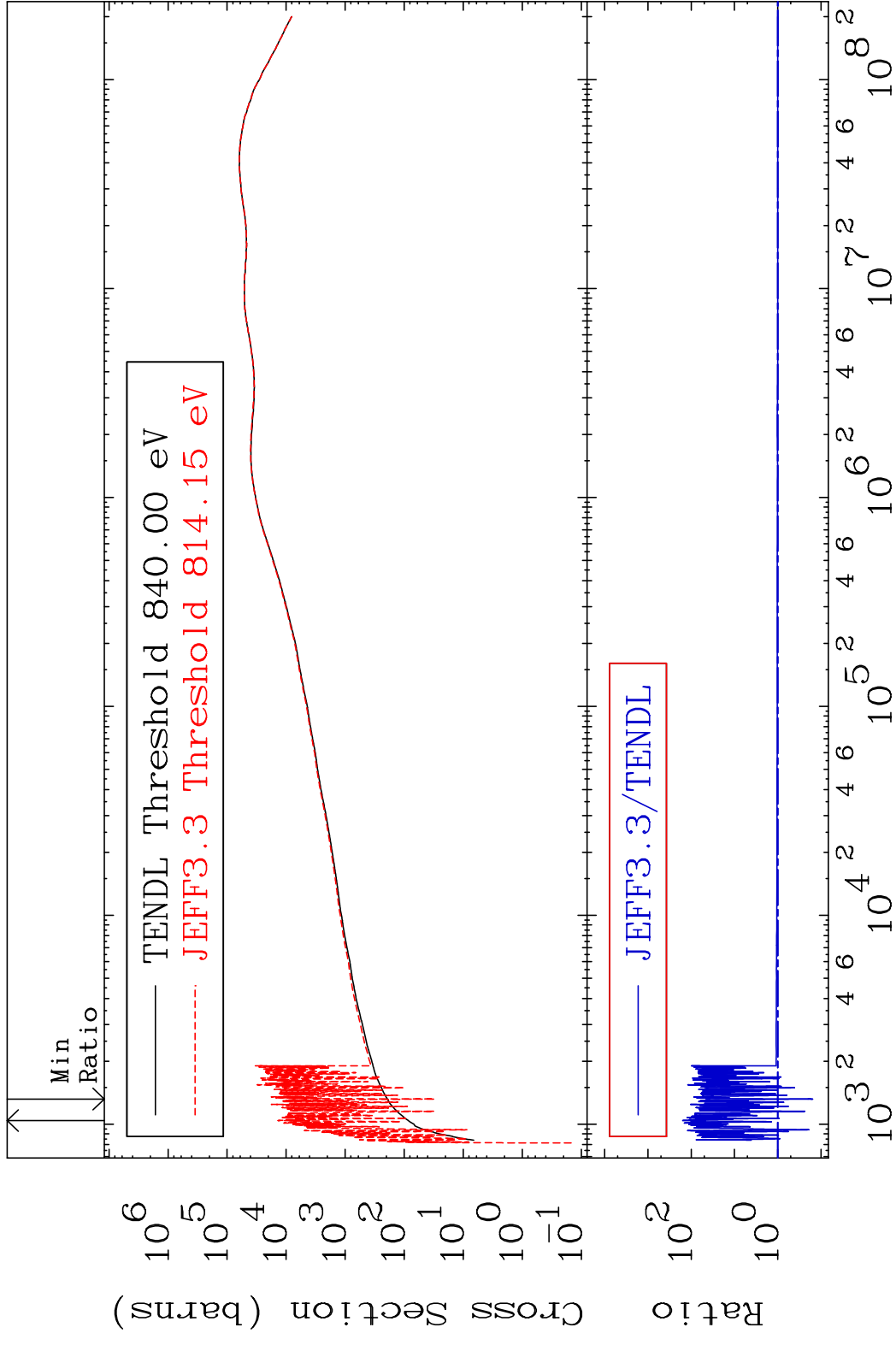
MAT 5722

Dpa elastic (mt2)

57-La-137

Cross Section

-84.37 To 9999. %



63

Incident Energy (eV)

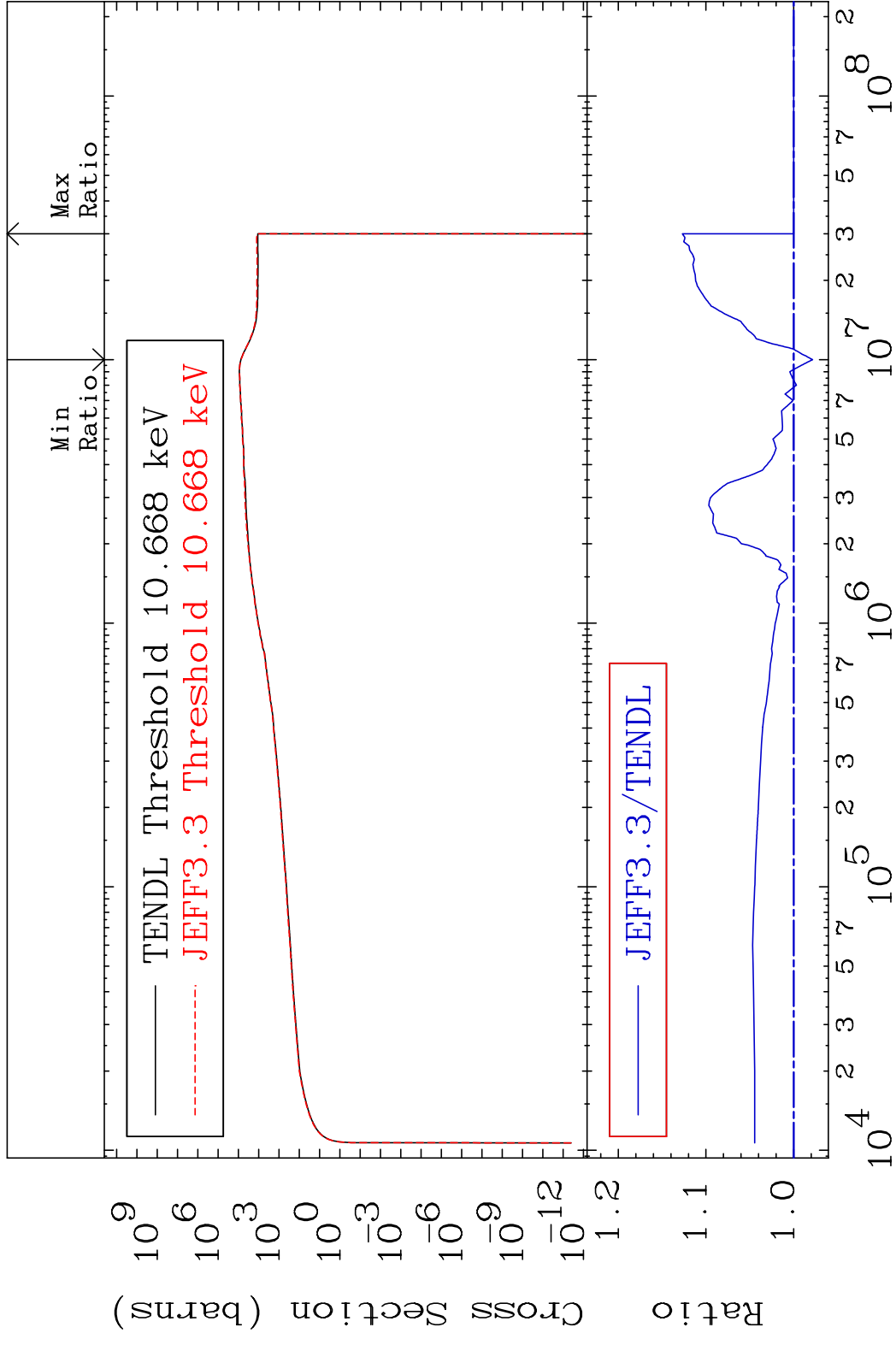
57-La-137

MAT 5722

Dpa inelastic (mt51-91)

57-La-137

Cross Section -2.149 To 12.69 %

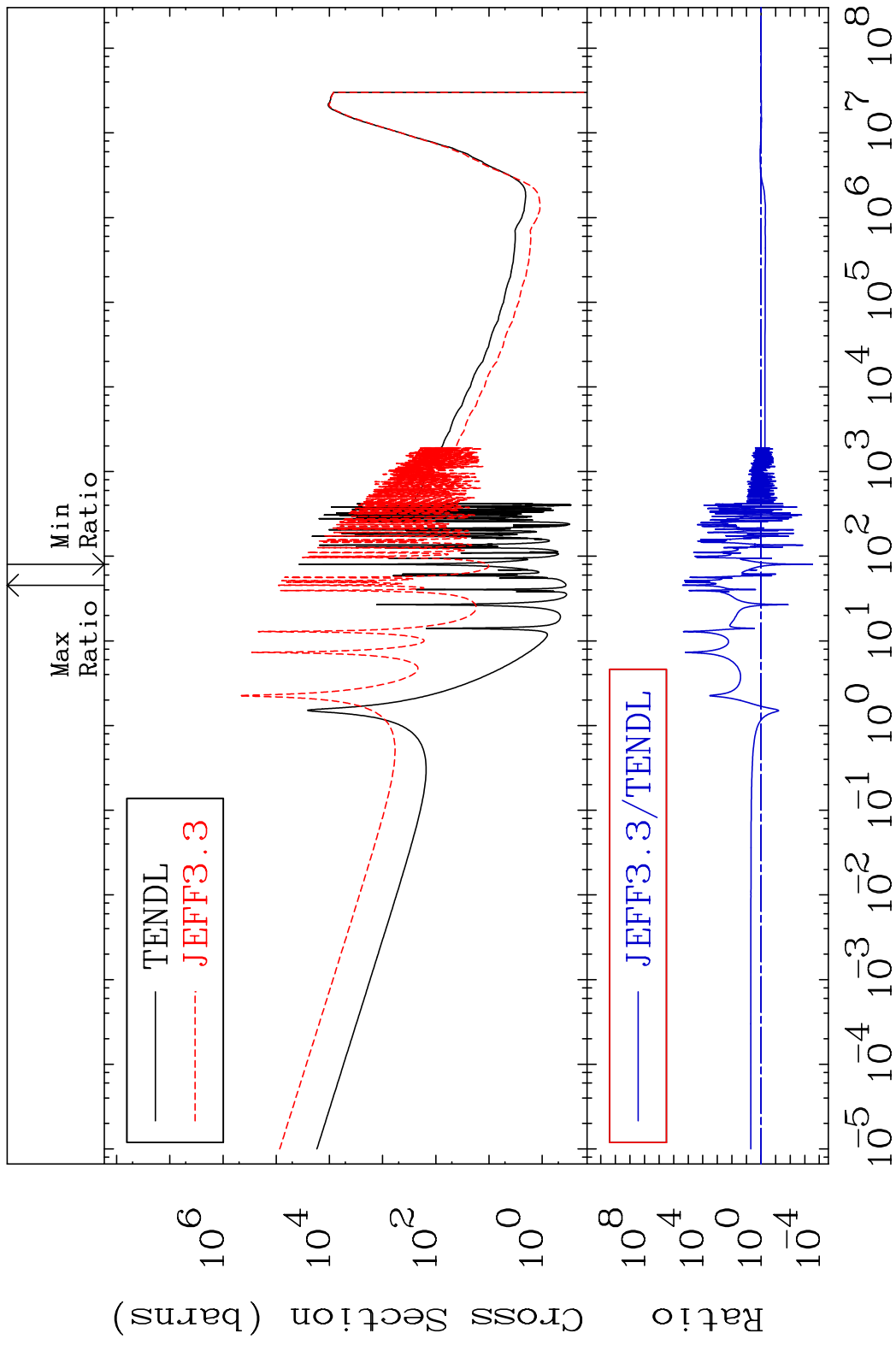


64

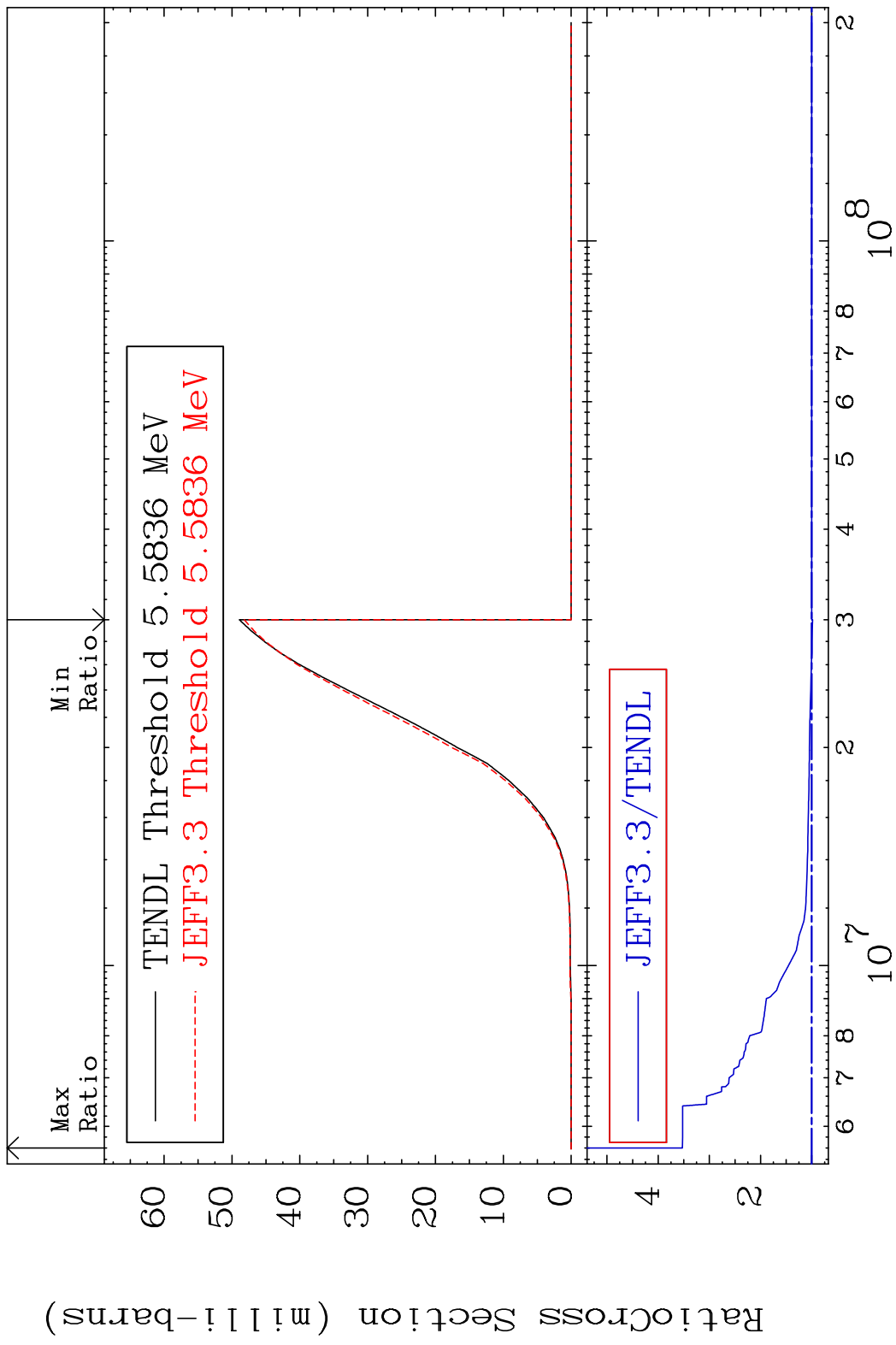
Incident Energy (eV)

57-La-137

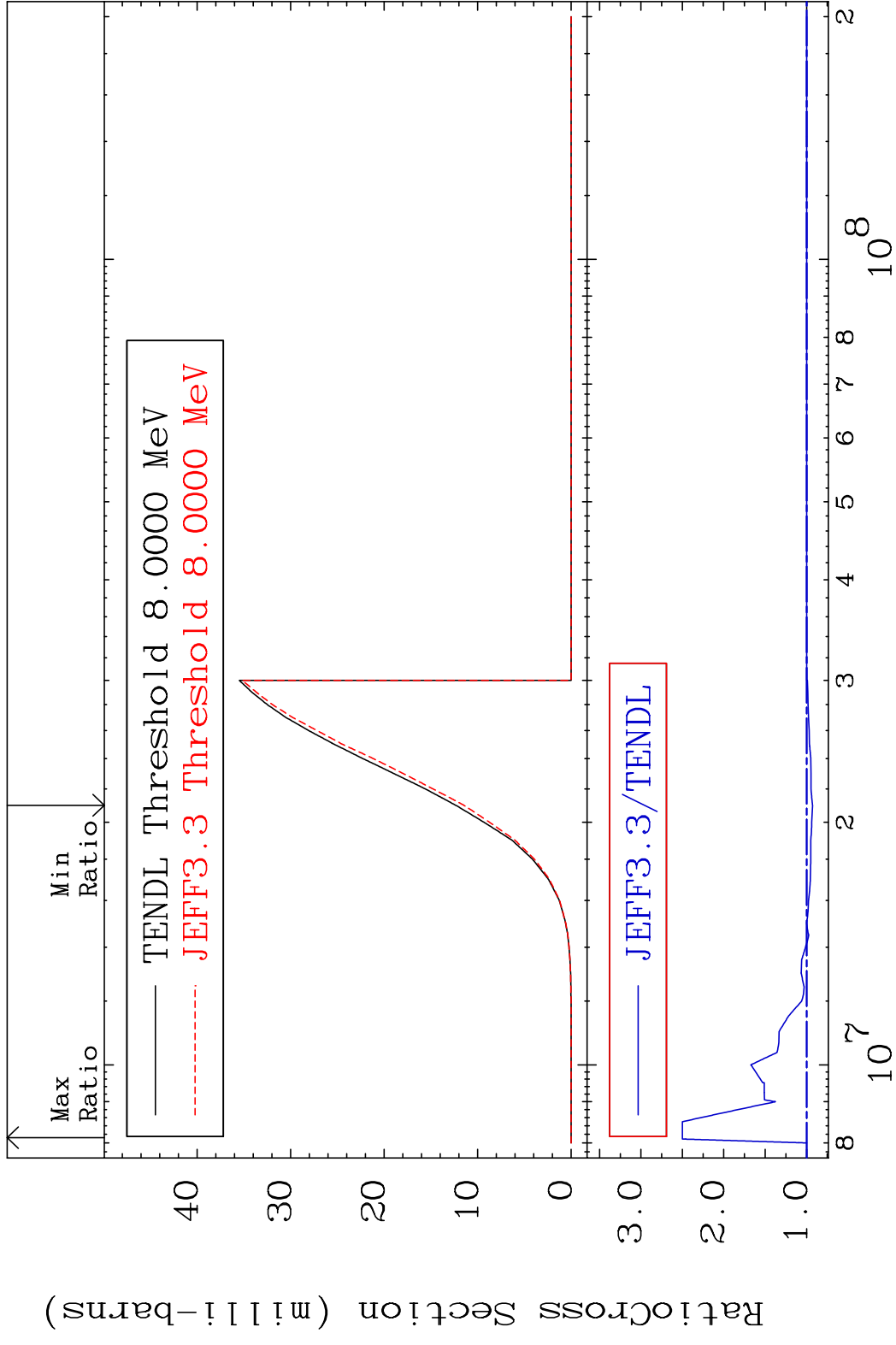
MAT 5722 Dpa disappearance (mt102 -120) 57-La-137
 Cross Section -99.97 To 9999. %



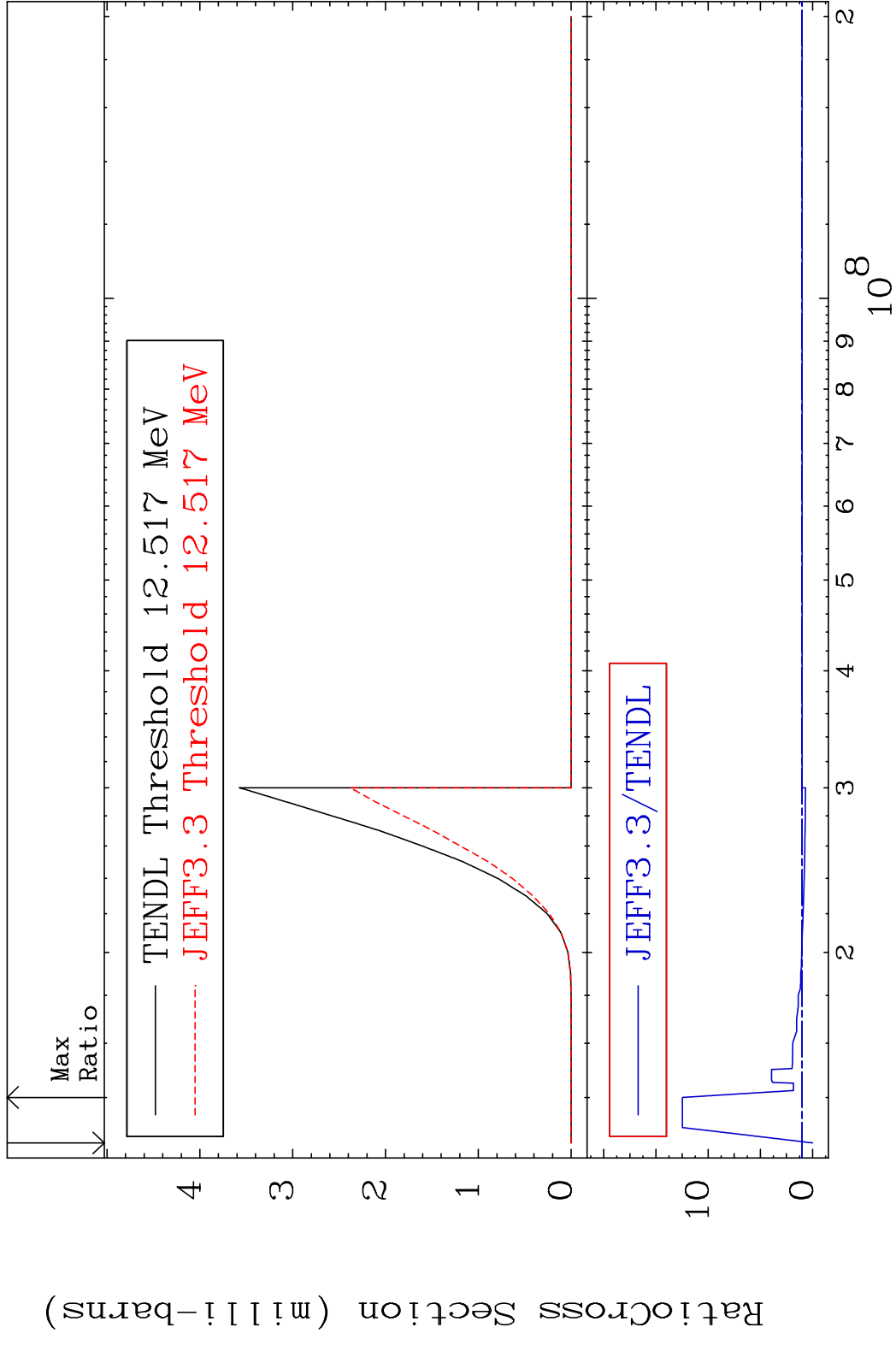
65 Incident Energy (eV) 57-La-137



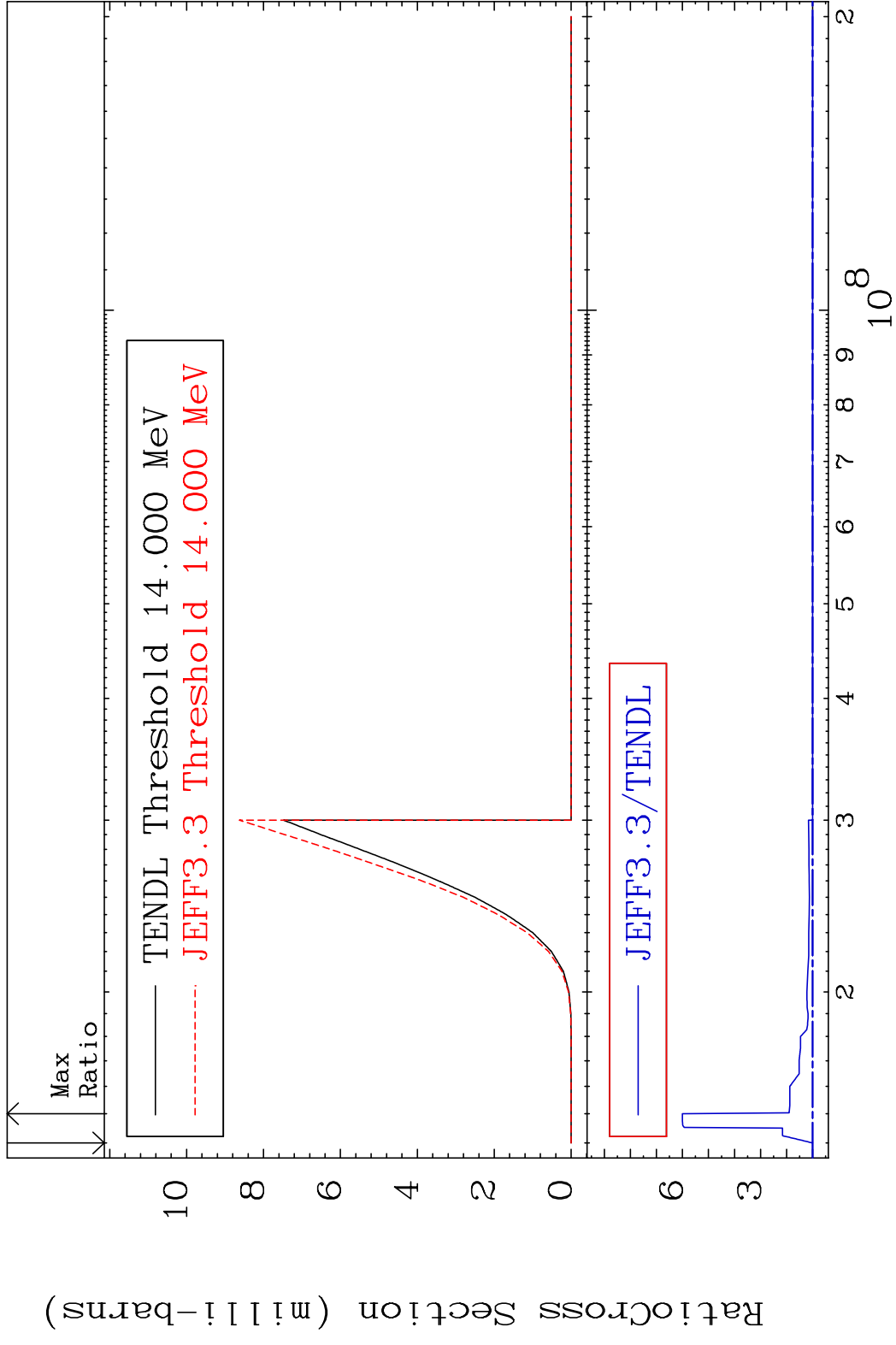
MAT 5722 (n, n') p:56-Ba-136m5 57-La-137
 Radionuclide Production Cross Section 150.0 %

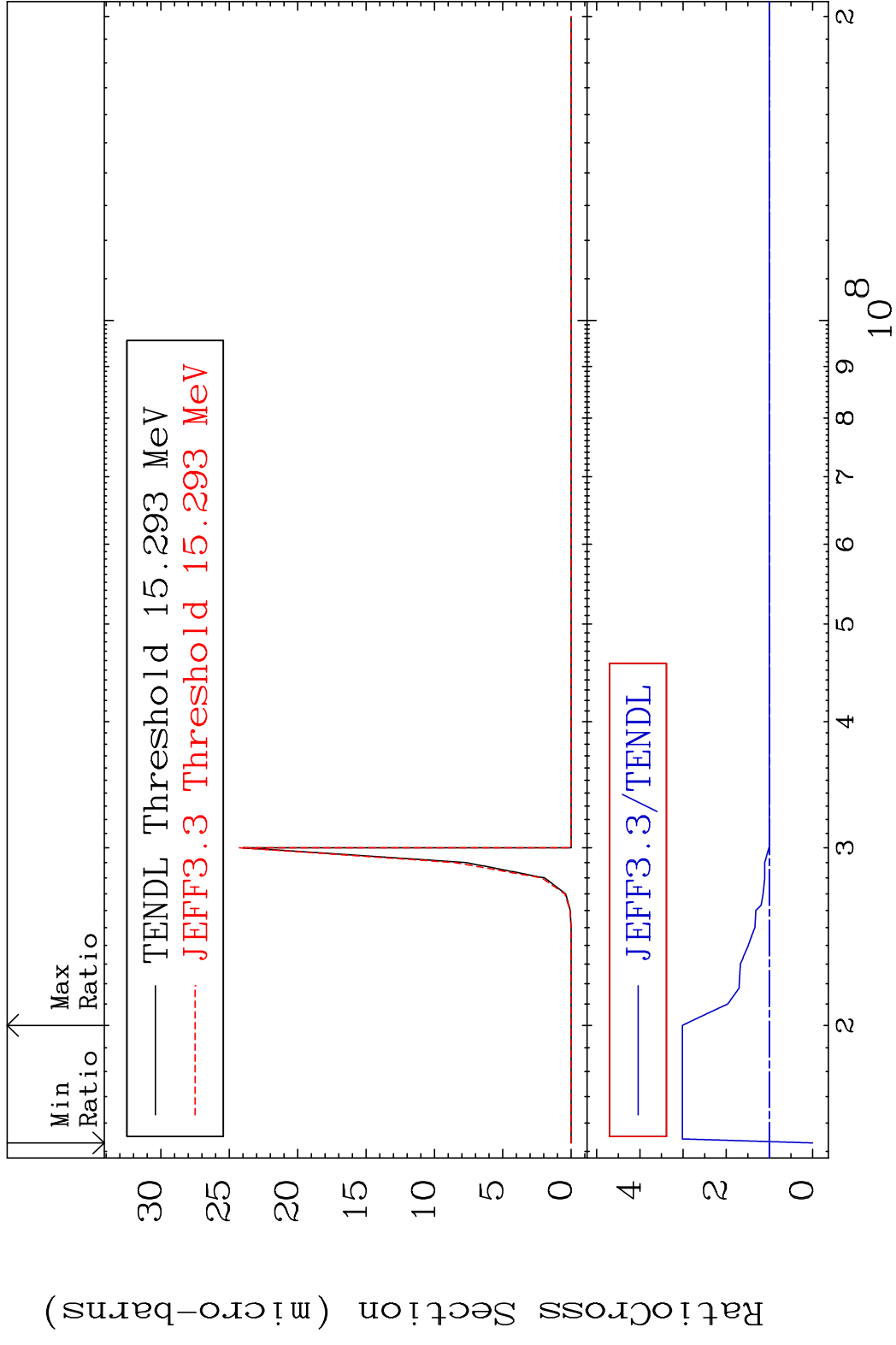


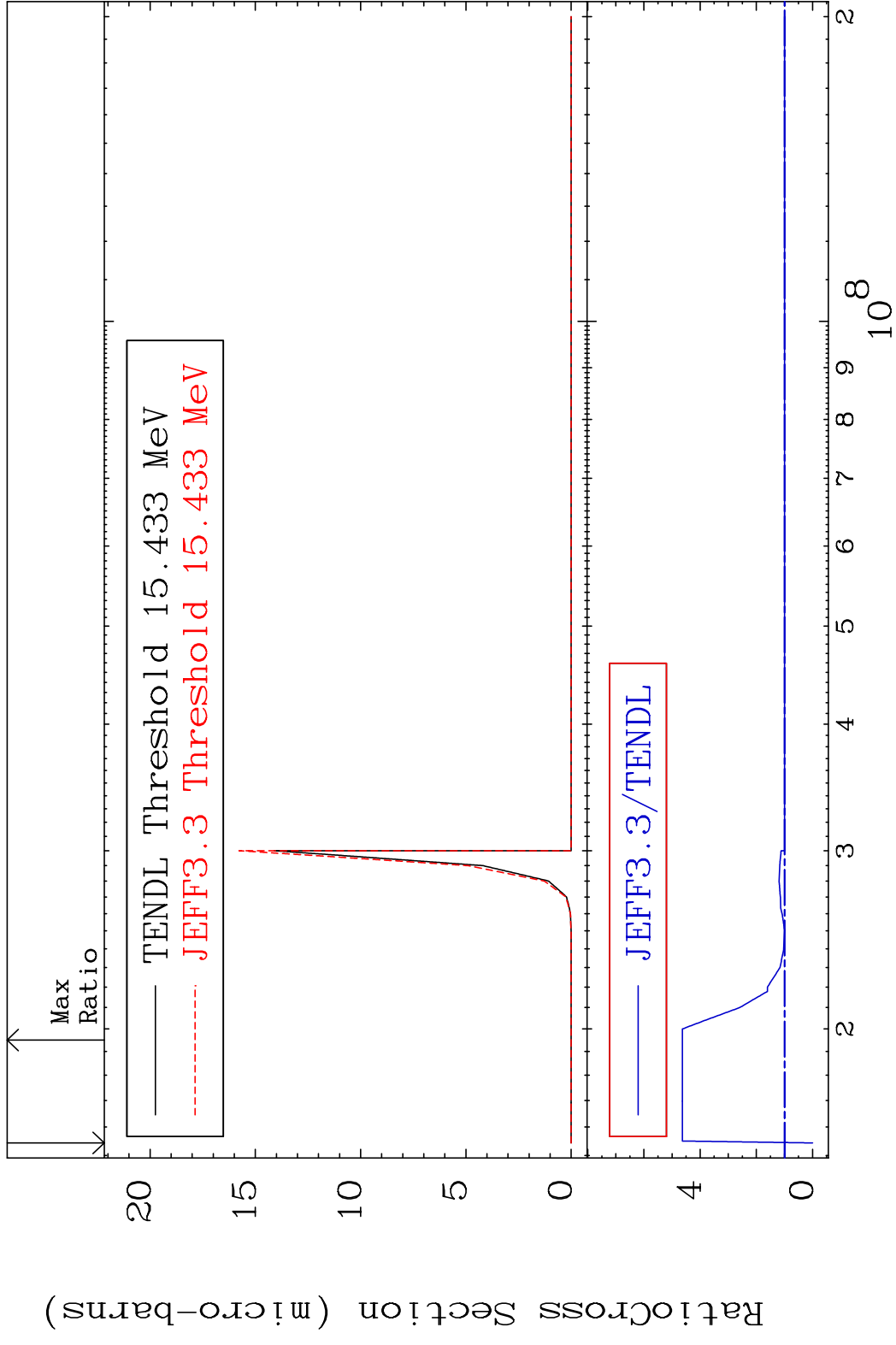
MAT 5722 (n, n') d:56-Ba-135g 57-La-137
 Radionuclide Production Cross Section Ratio 1147. %

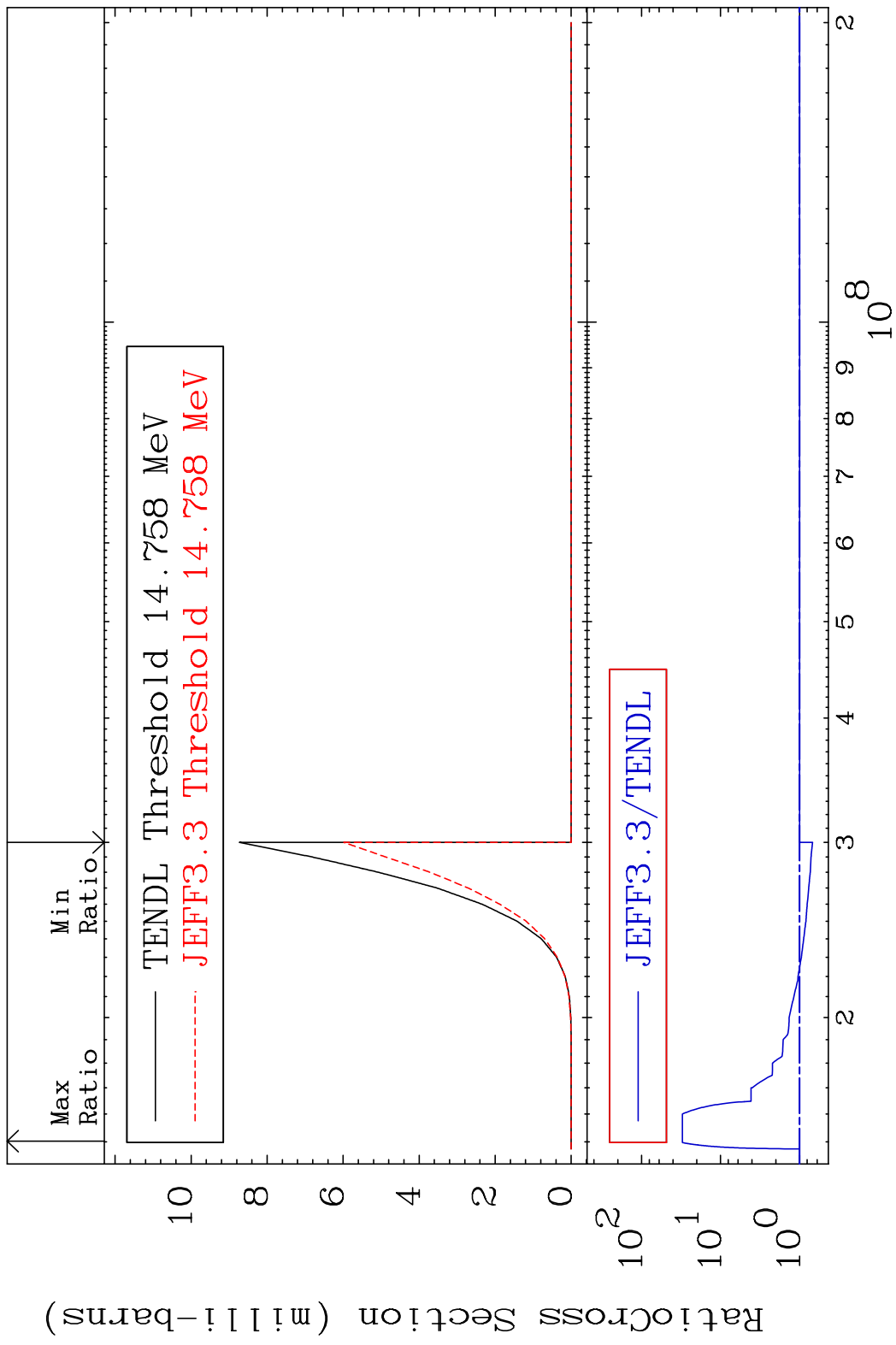


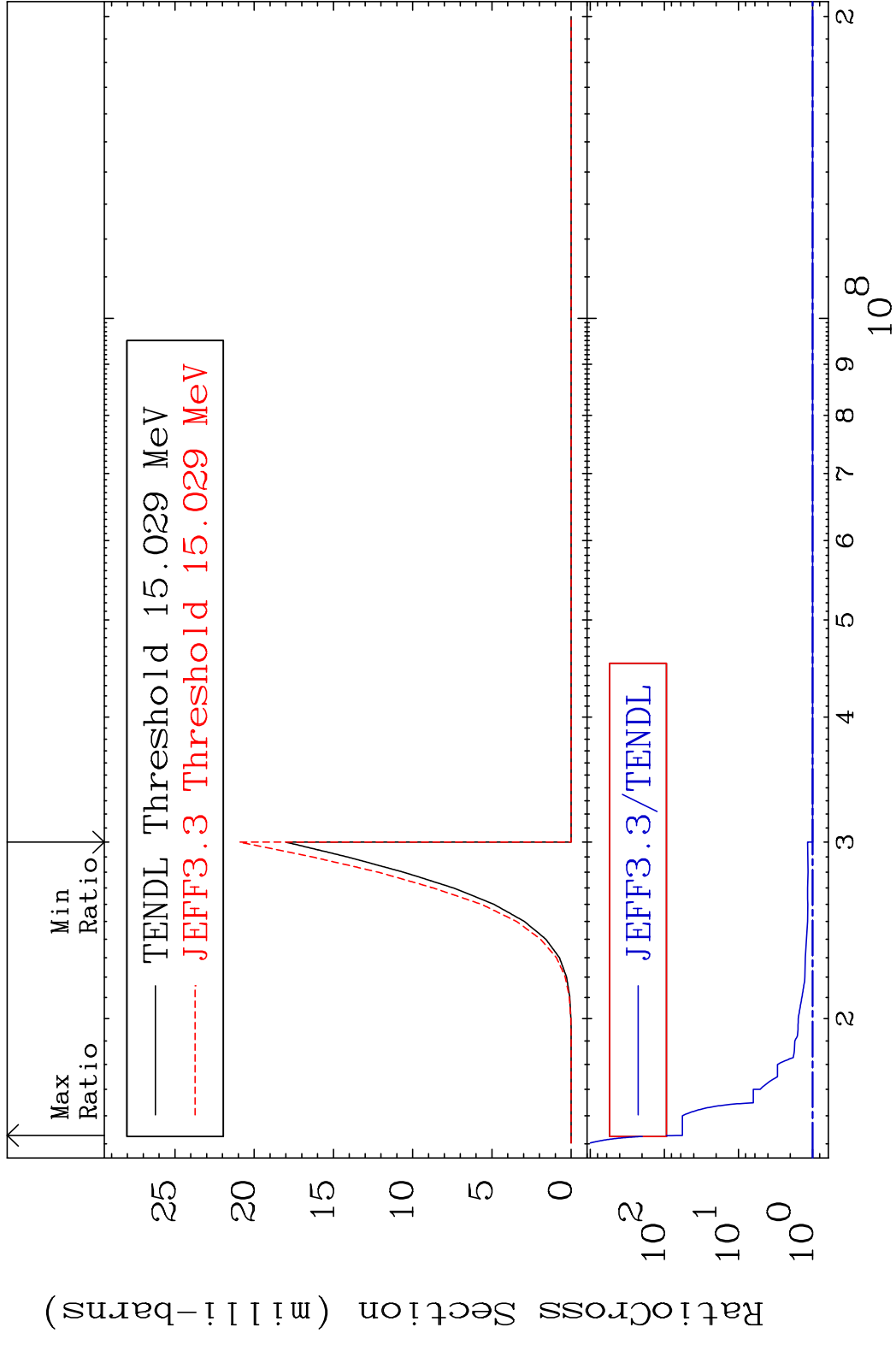
MAT 5722 (n, n') d:56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section 500.5 %

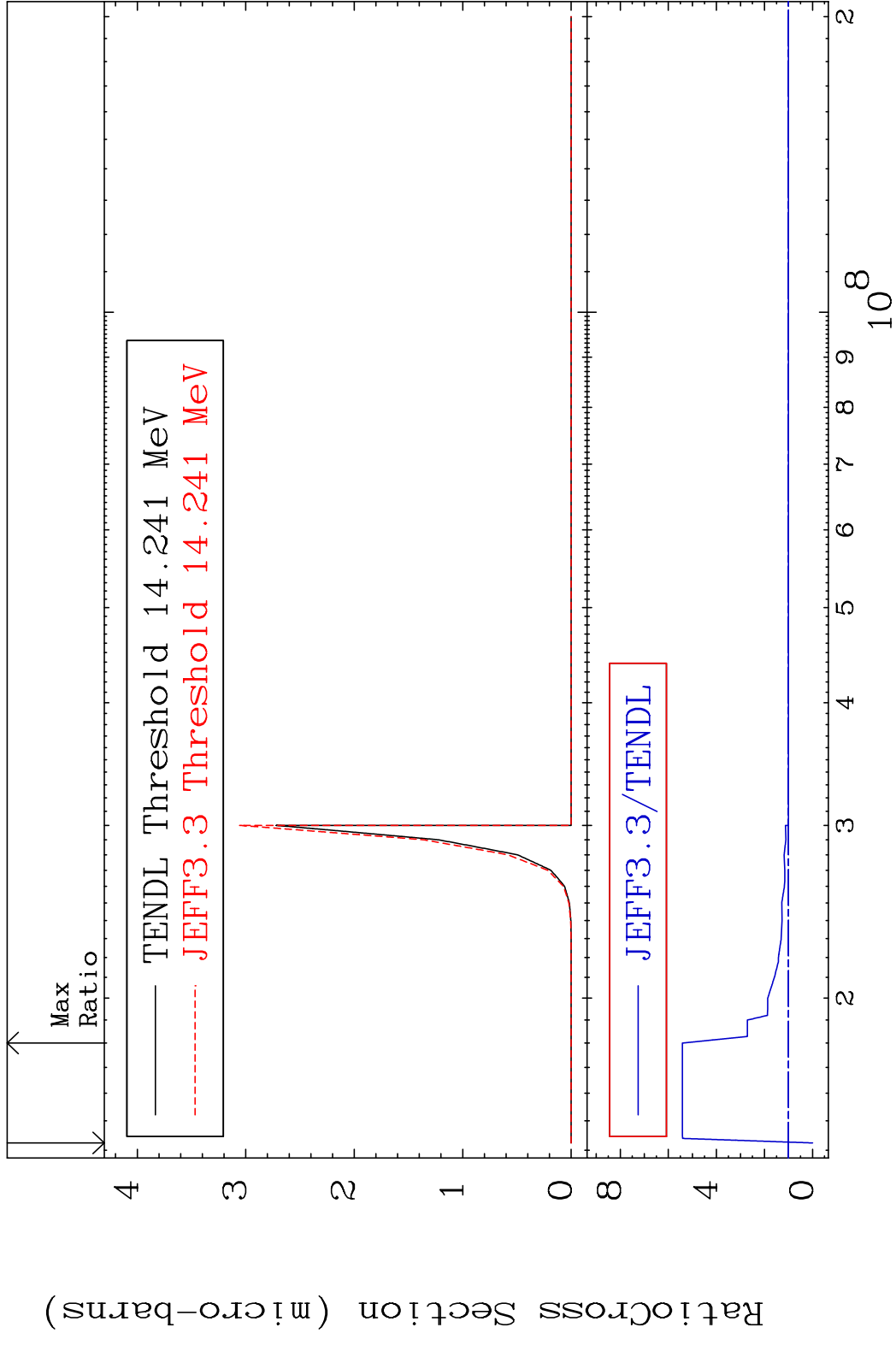


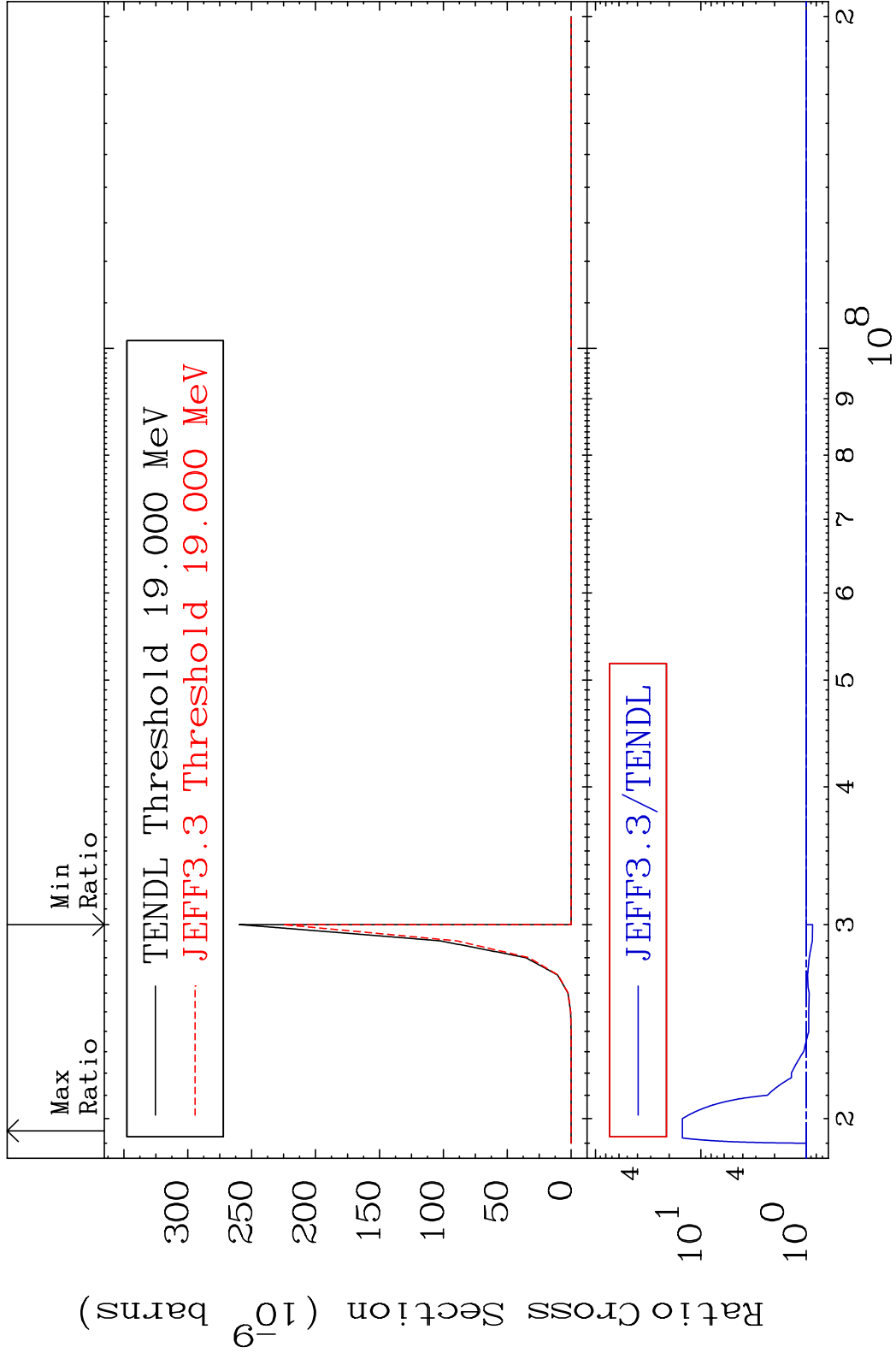


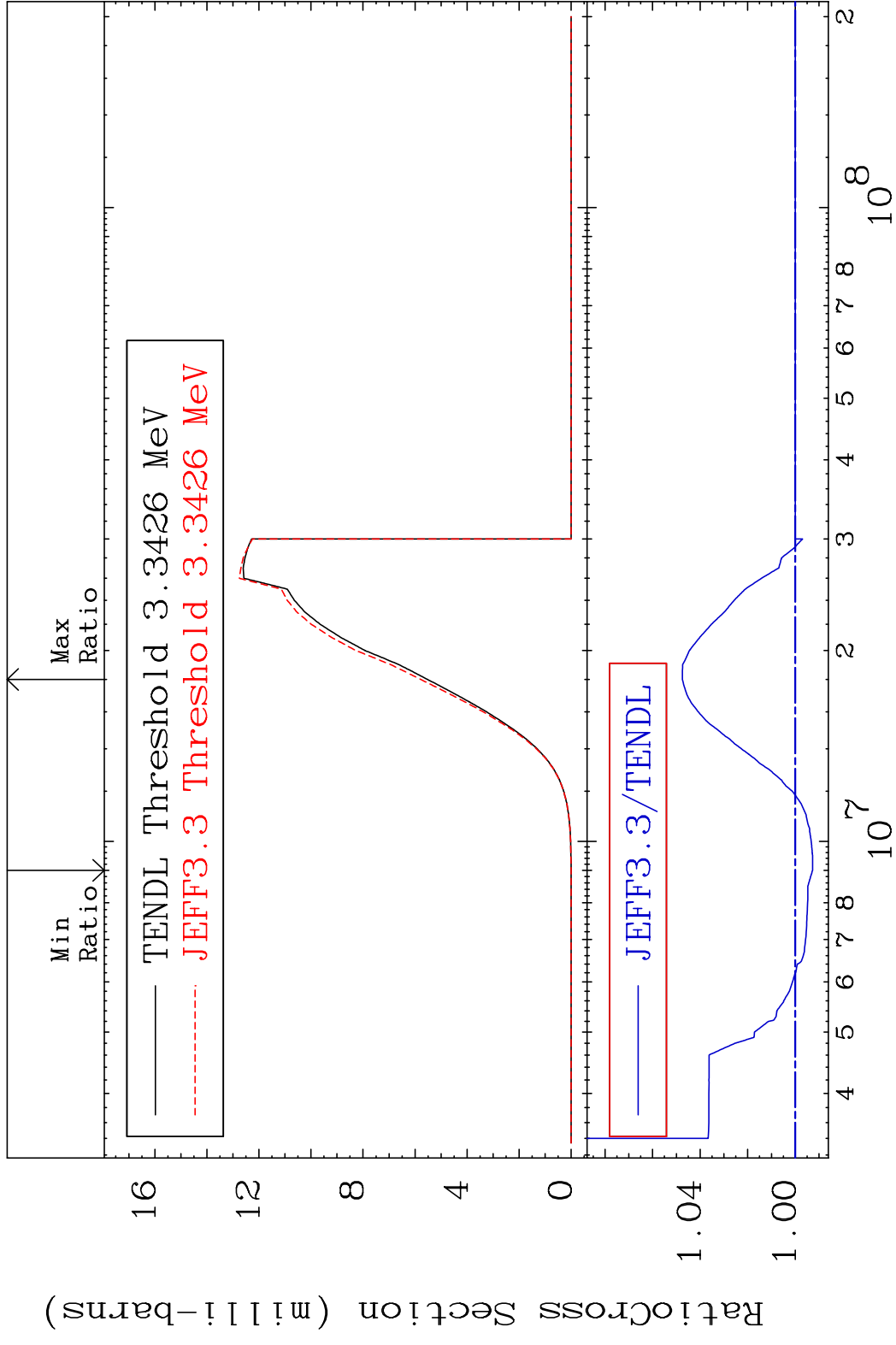


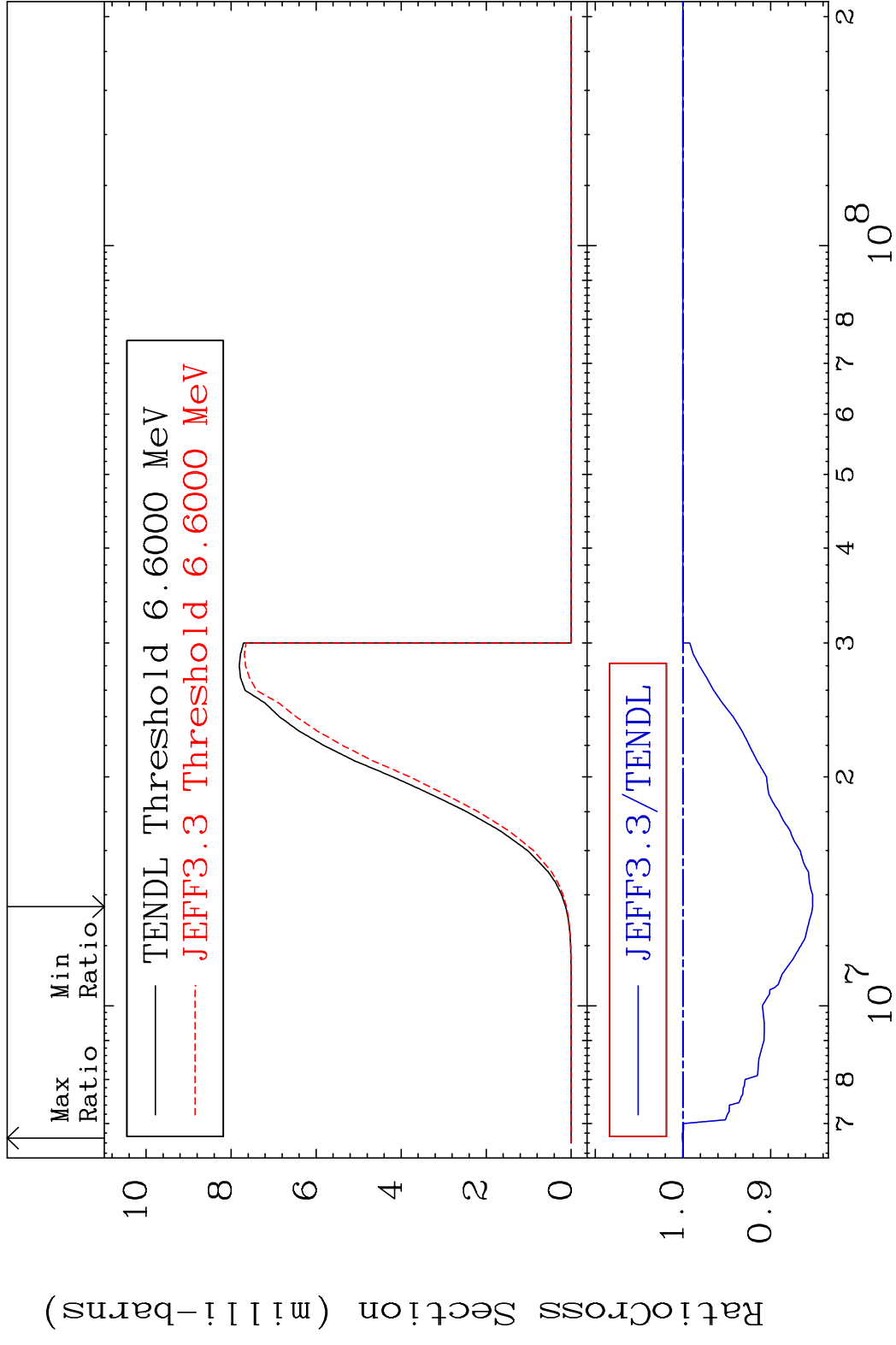


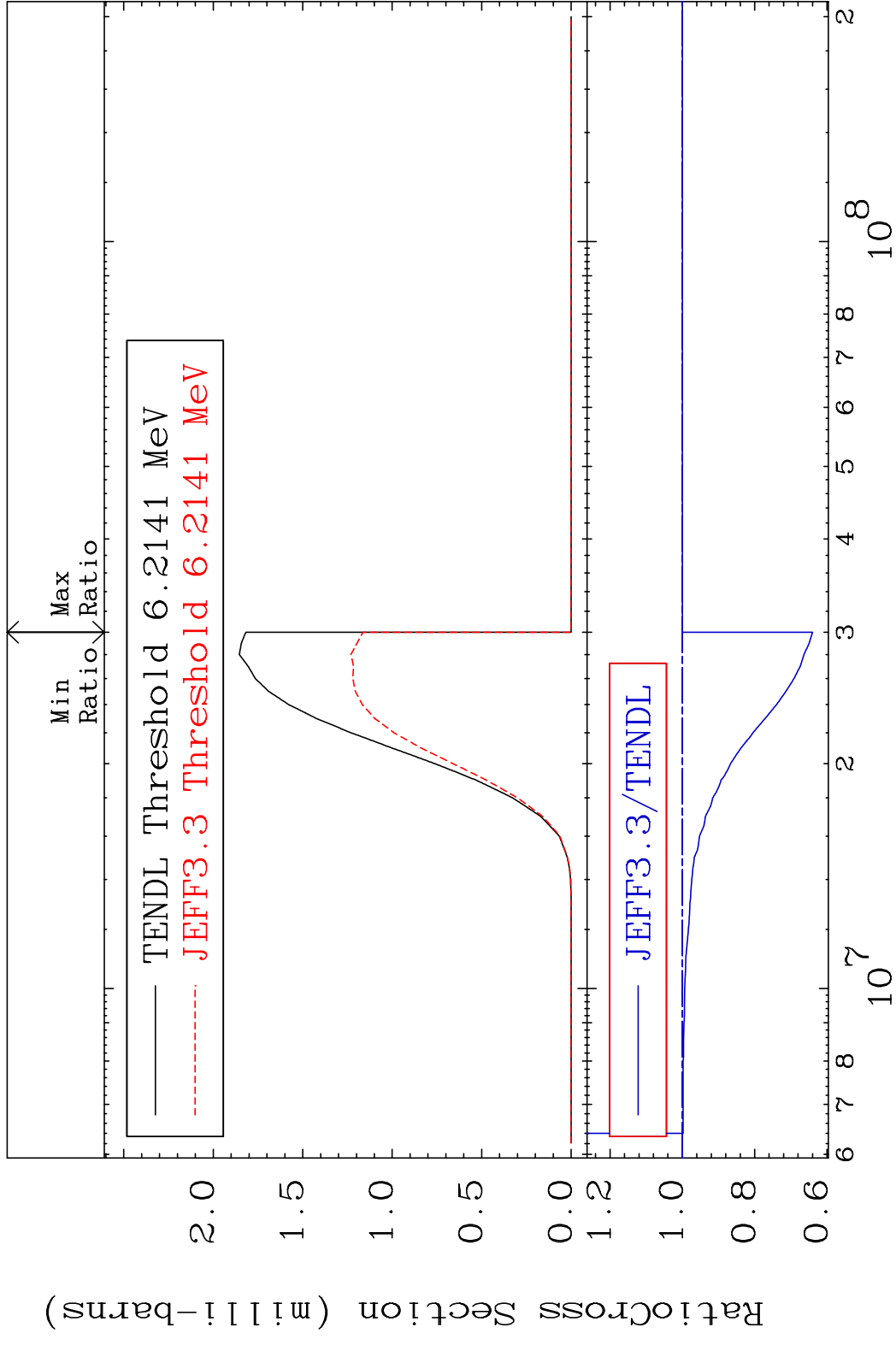




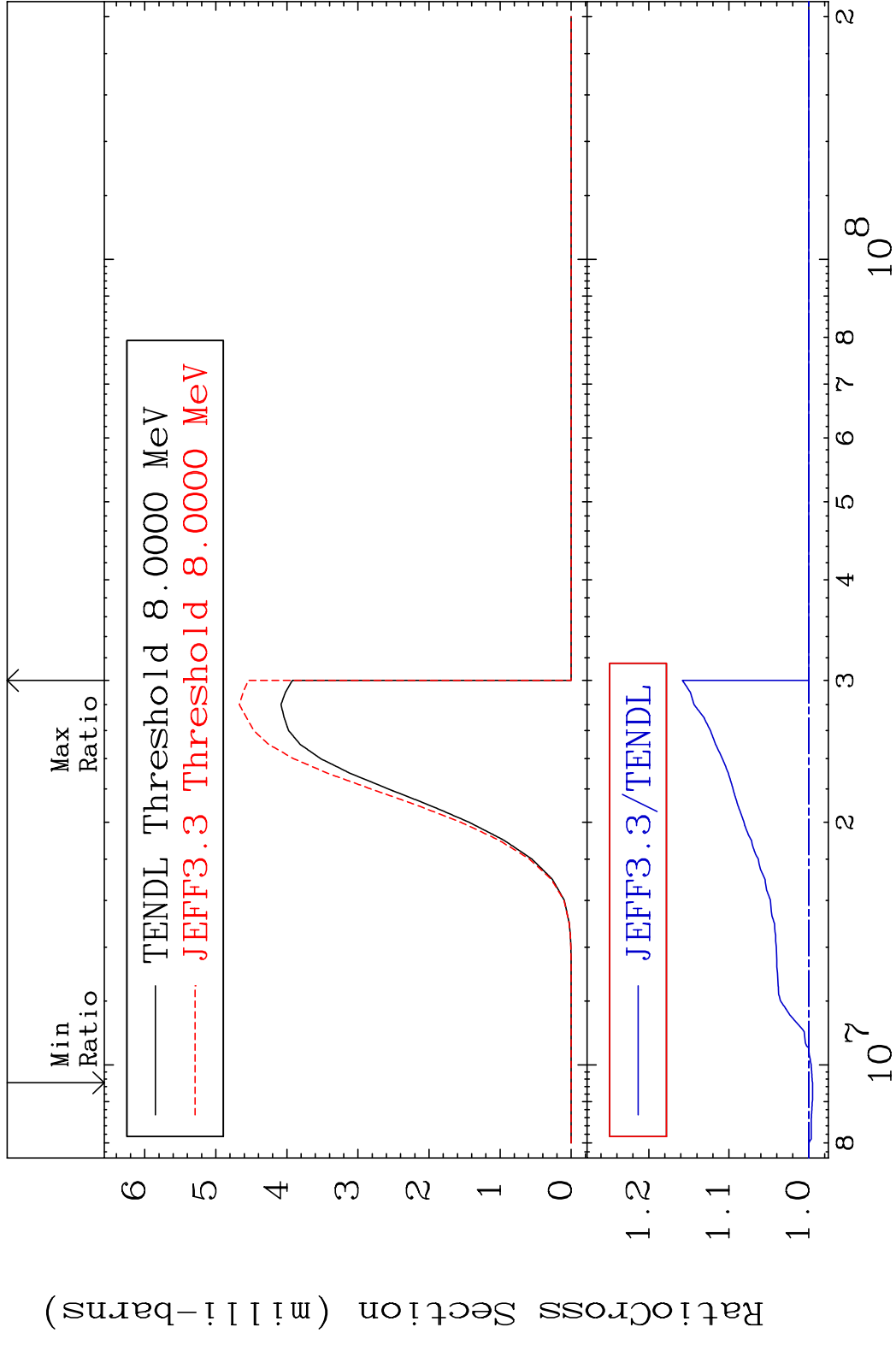




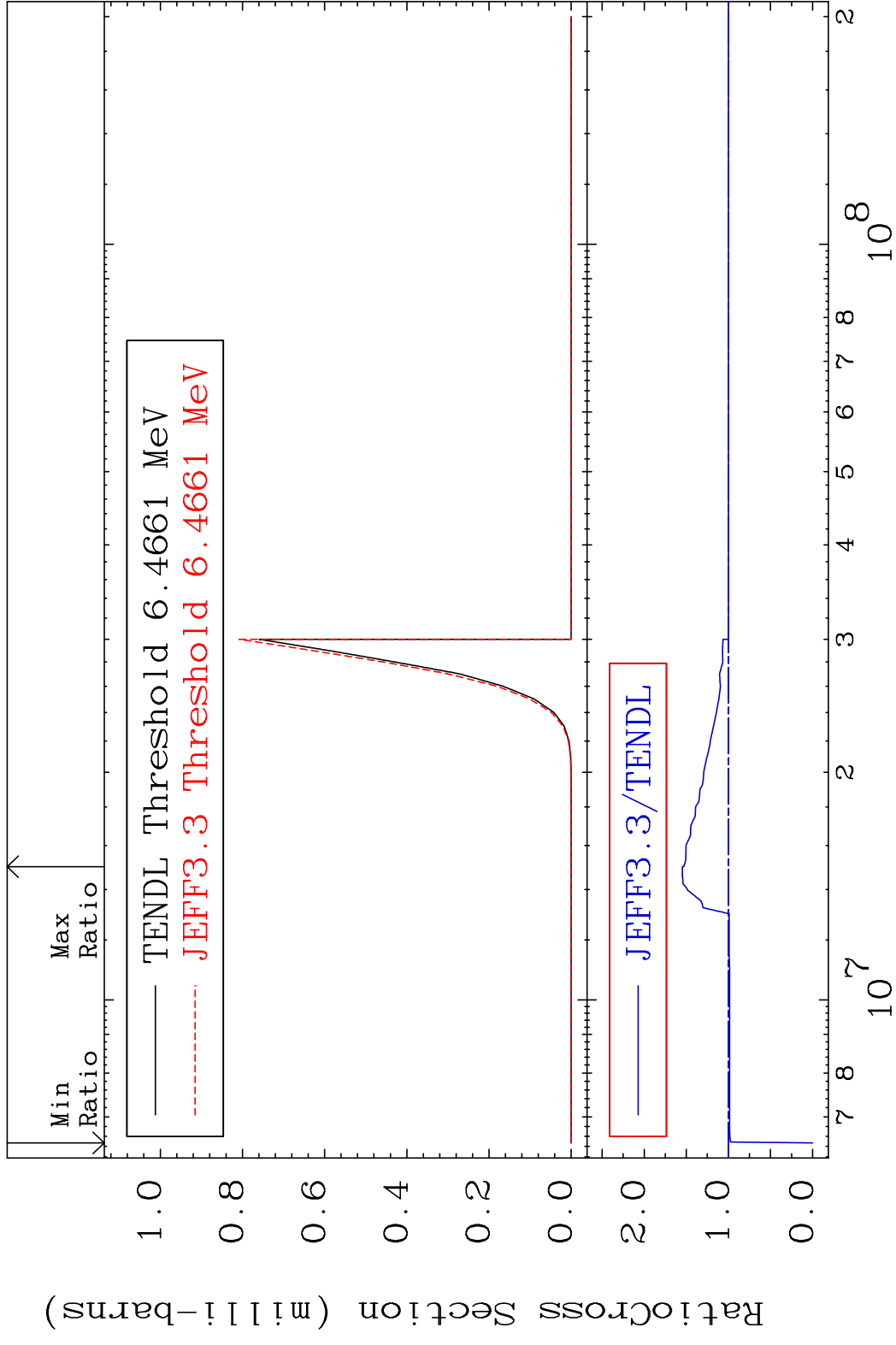


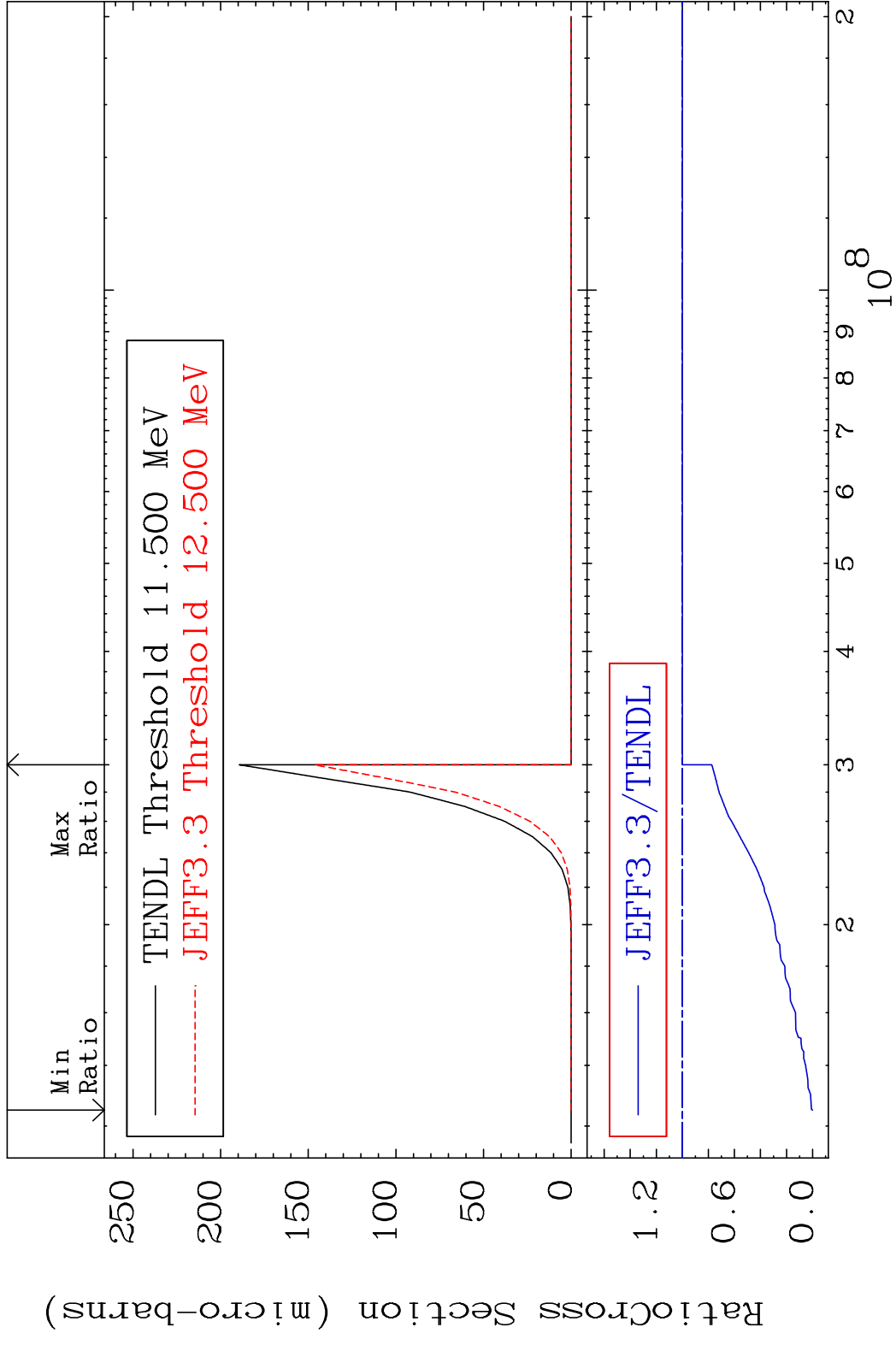


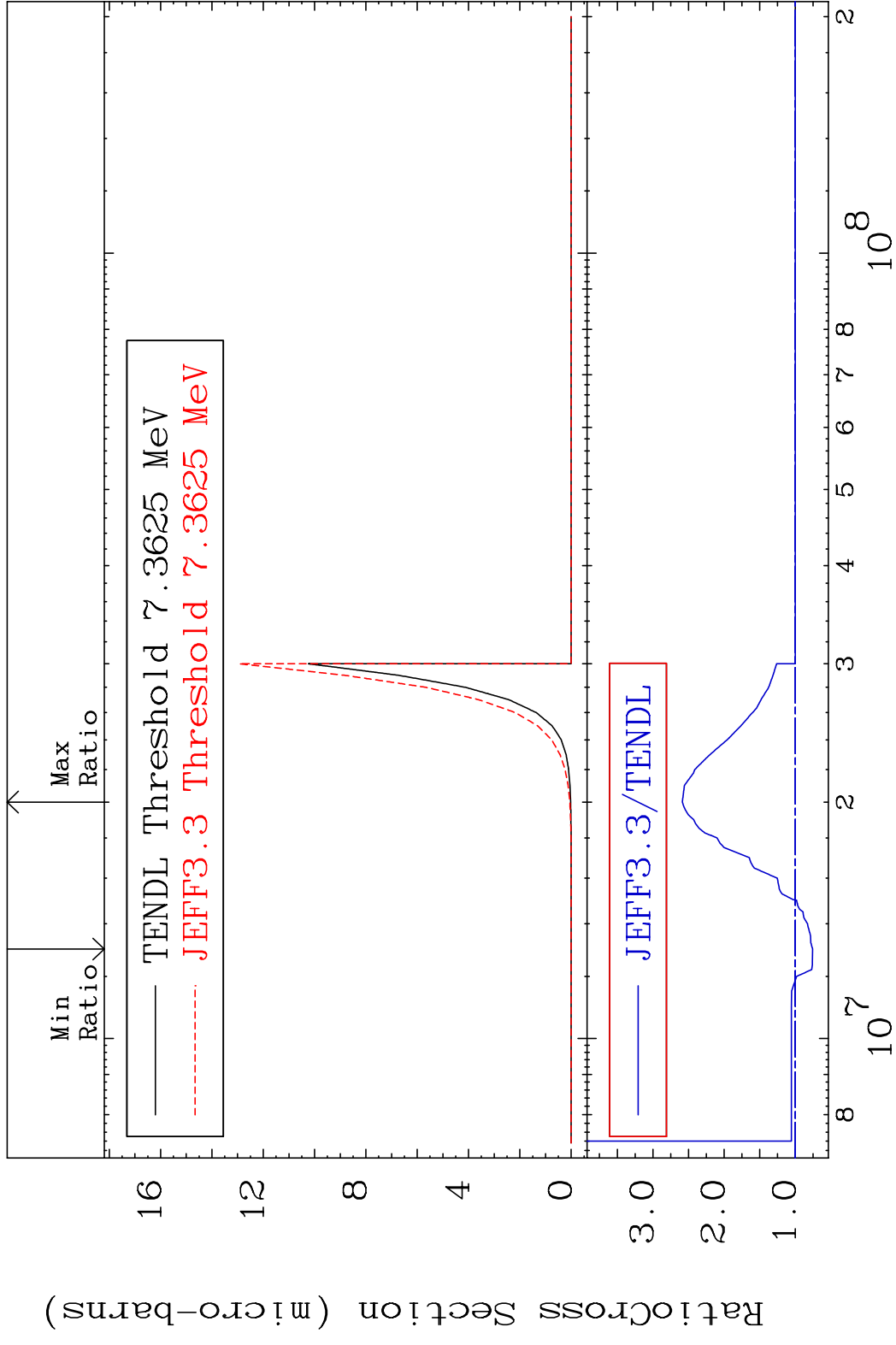
MAT 5722 (n, t):56-Ba-135m2 57-La-137
 Radionuclide Production Cross Section 15.82 %



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 Ratio 9999. %

