

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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U.S.A.

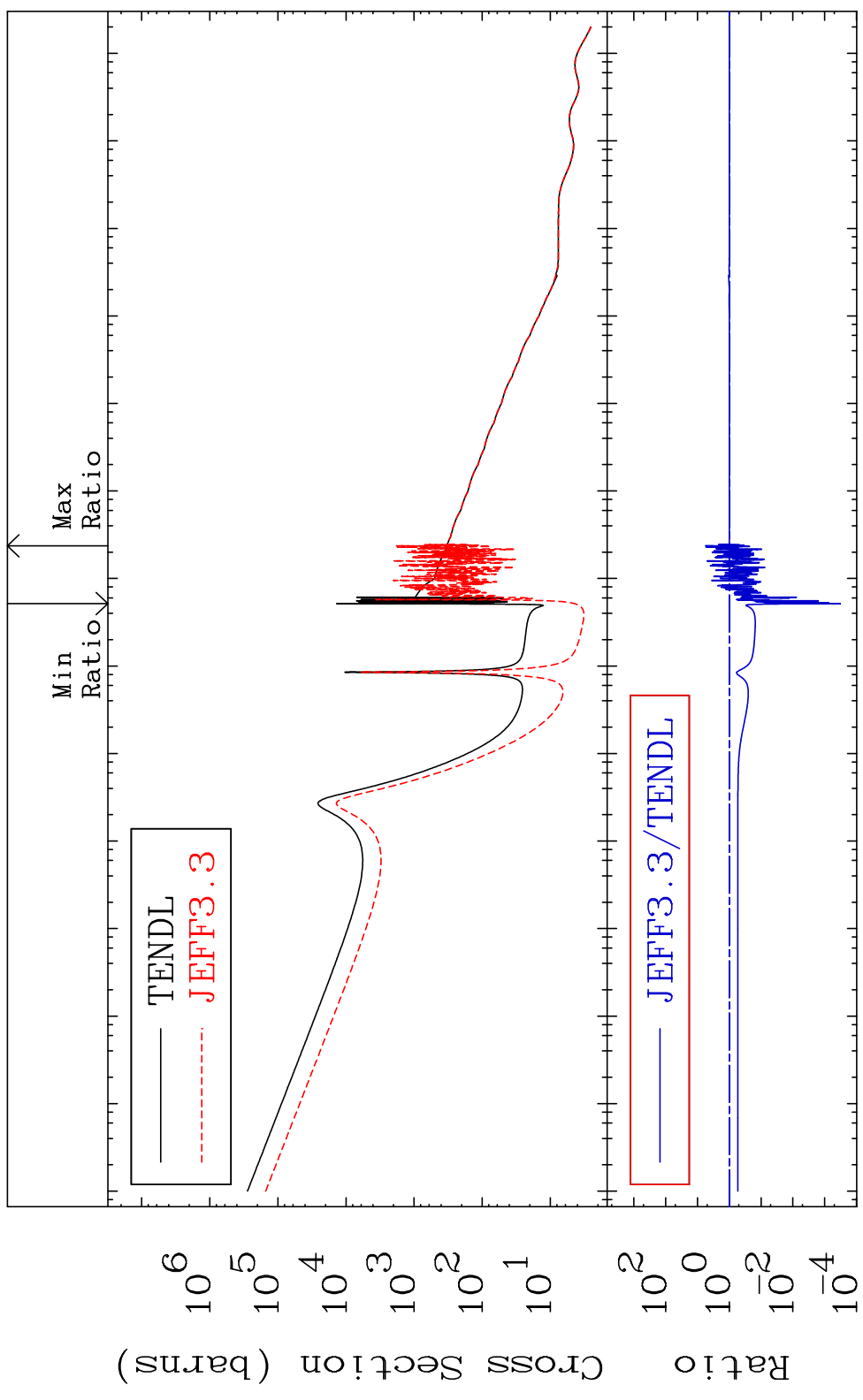
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 6729

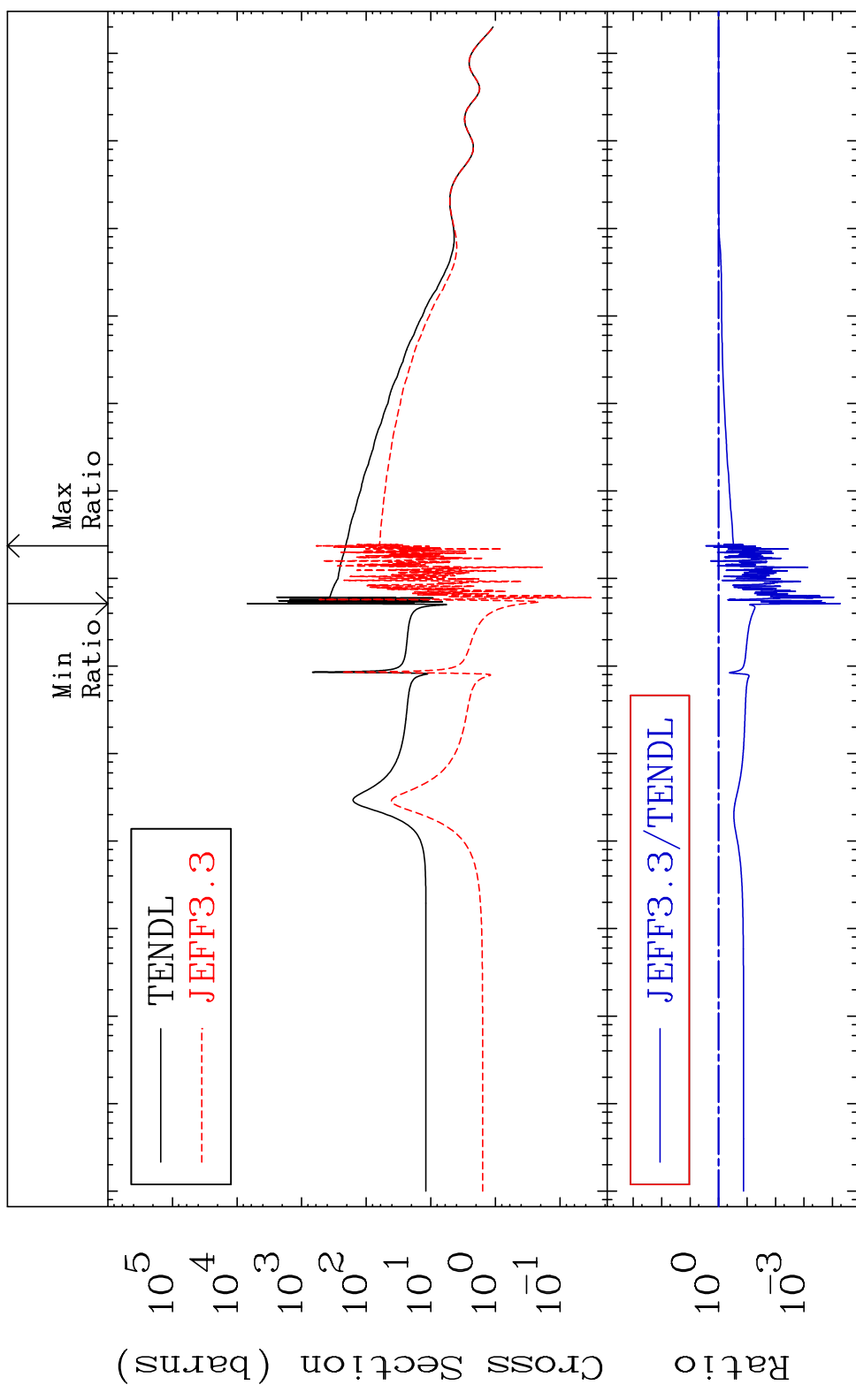
Total Cross Section -99.97 To 451.0 %
67-Ho-166m



1 Incident Energy (eV) 67-Ho-166m

MAT 6729

Elastic Cross Section -99.99 To 182.7 %
67-Ho-166m



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

2 Incident Energy (eV) 67-Ho-166m

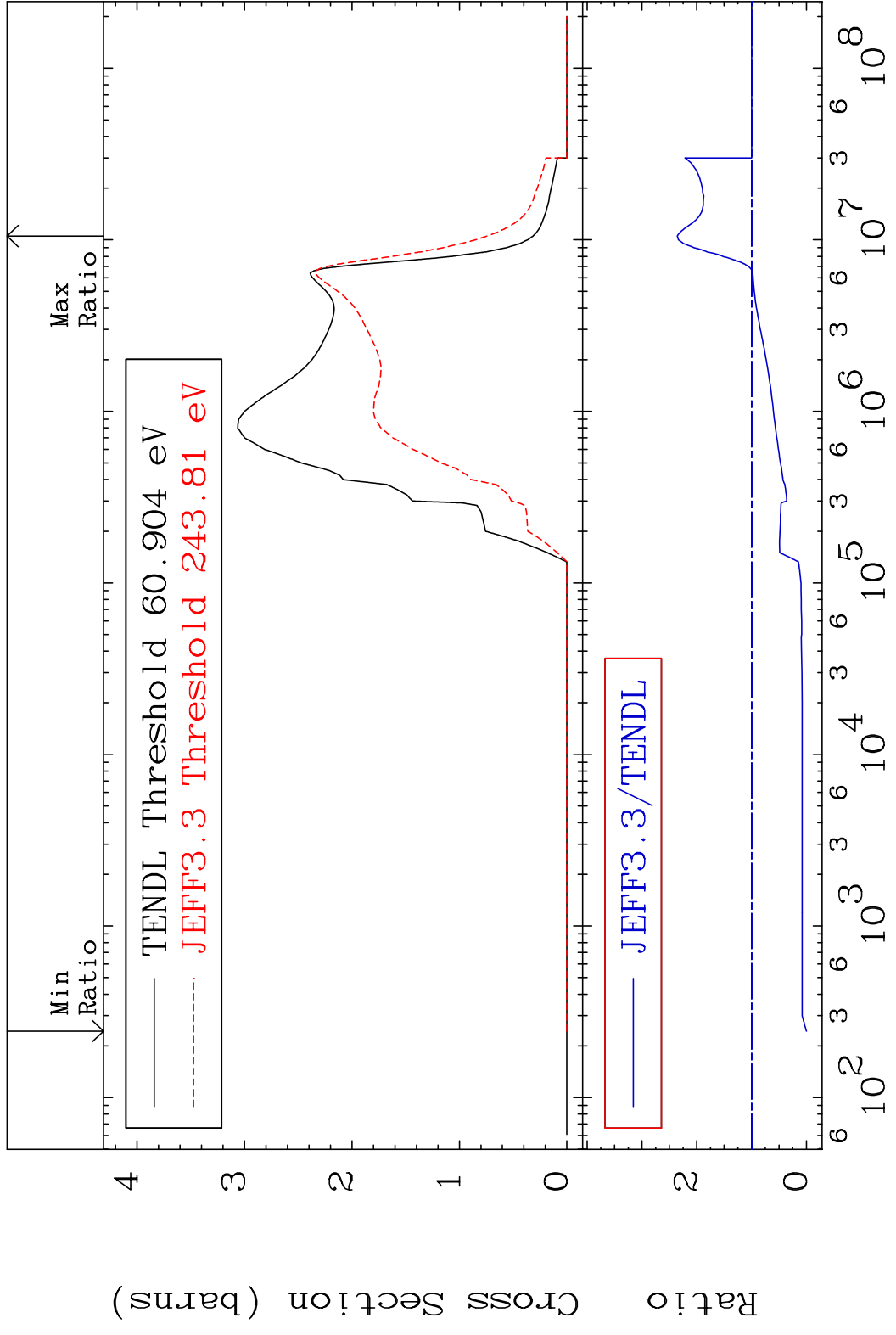
MAT 6729

Inelastic

67-Ho-166m

Cross Section

-100.0 To 135.7 %



3

Incident Energy (eV)

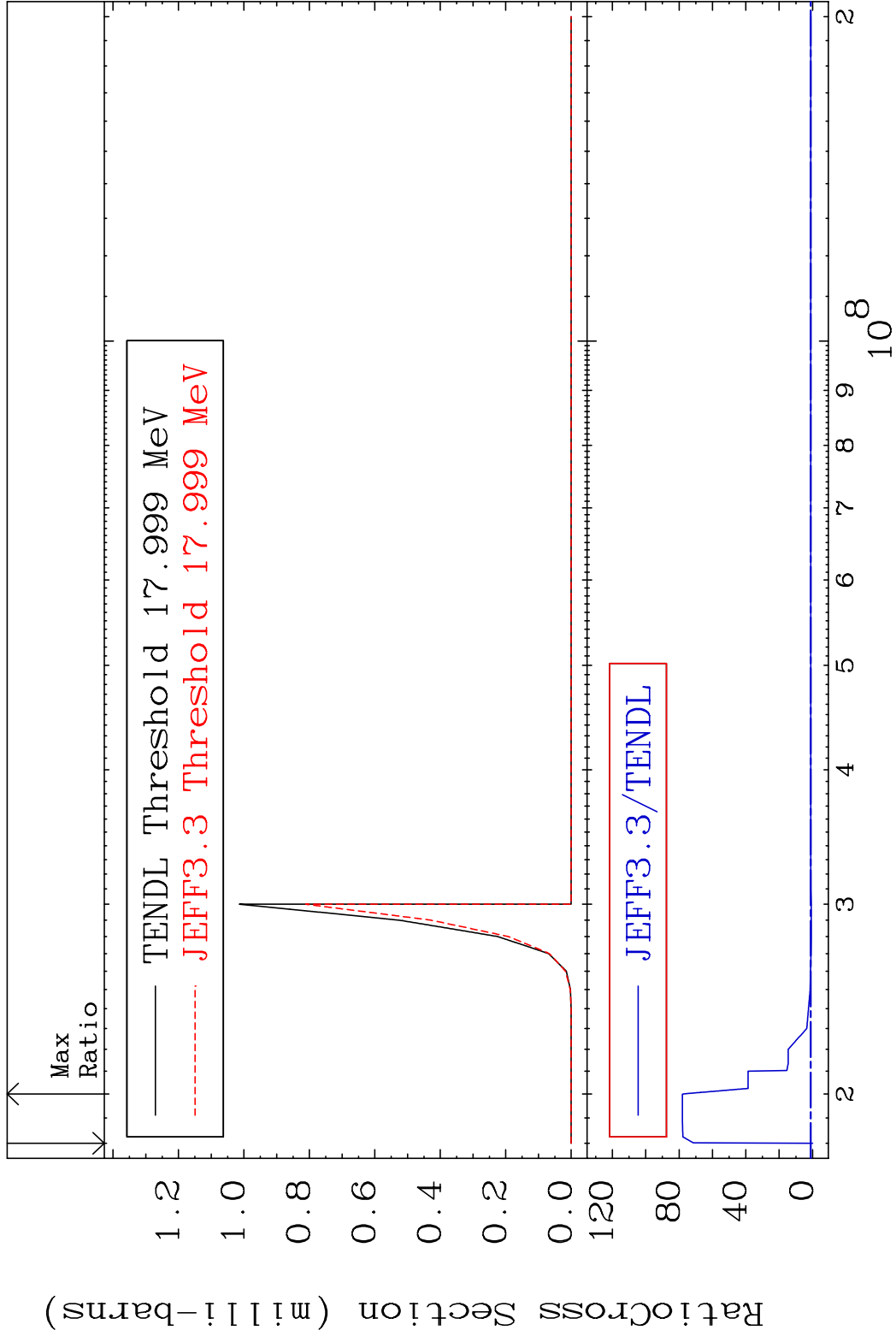
67-Ho-166m

MAT 6729

(n,2n) d

67-Ho-166m

Cross Section -100.0 To 7705. %

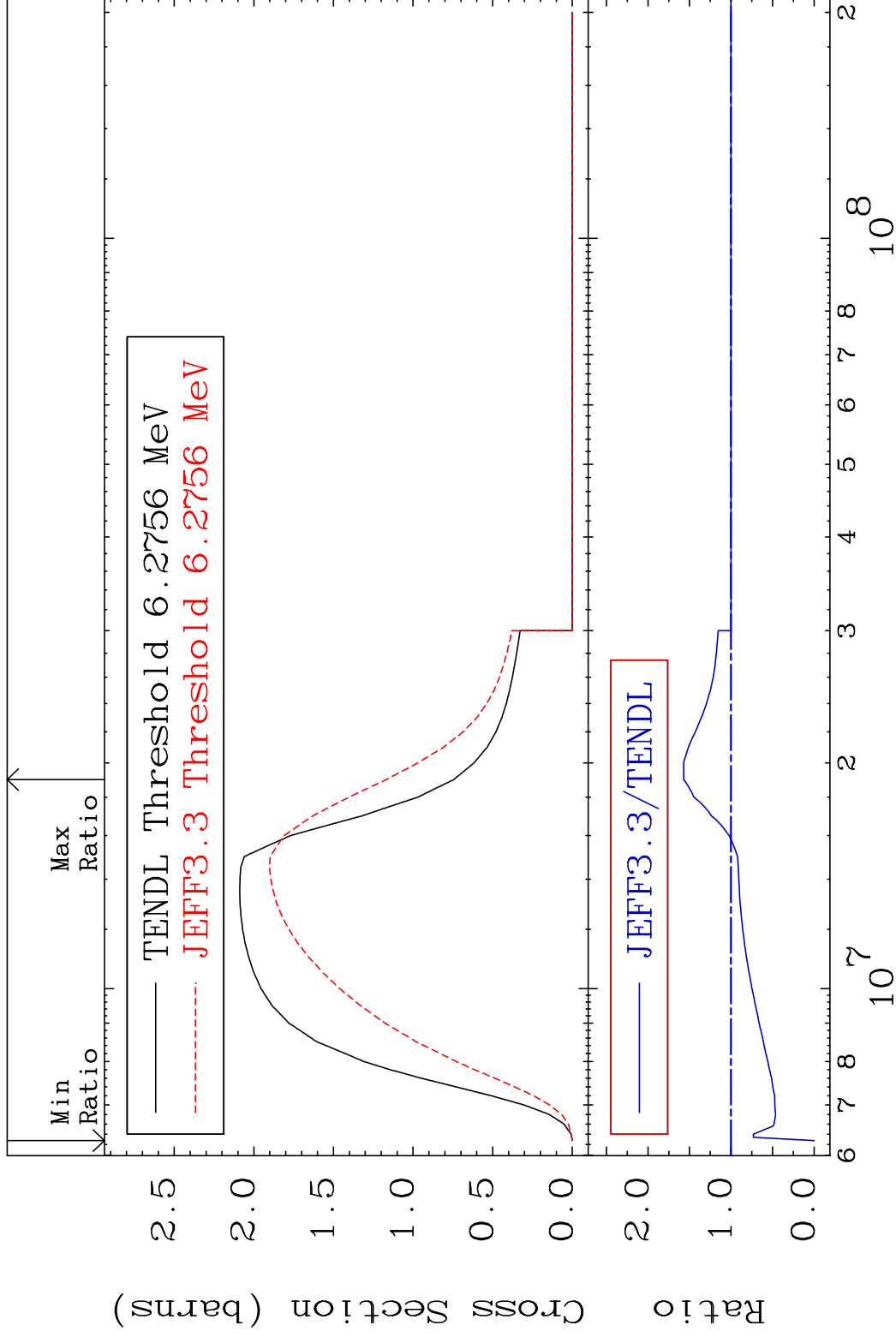


MAT 6729

(n,2n)

67-Ho-166m

Cross Section -100.0 To 57.03 %



5

Incident Energy (eV)

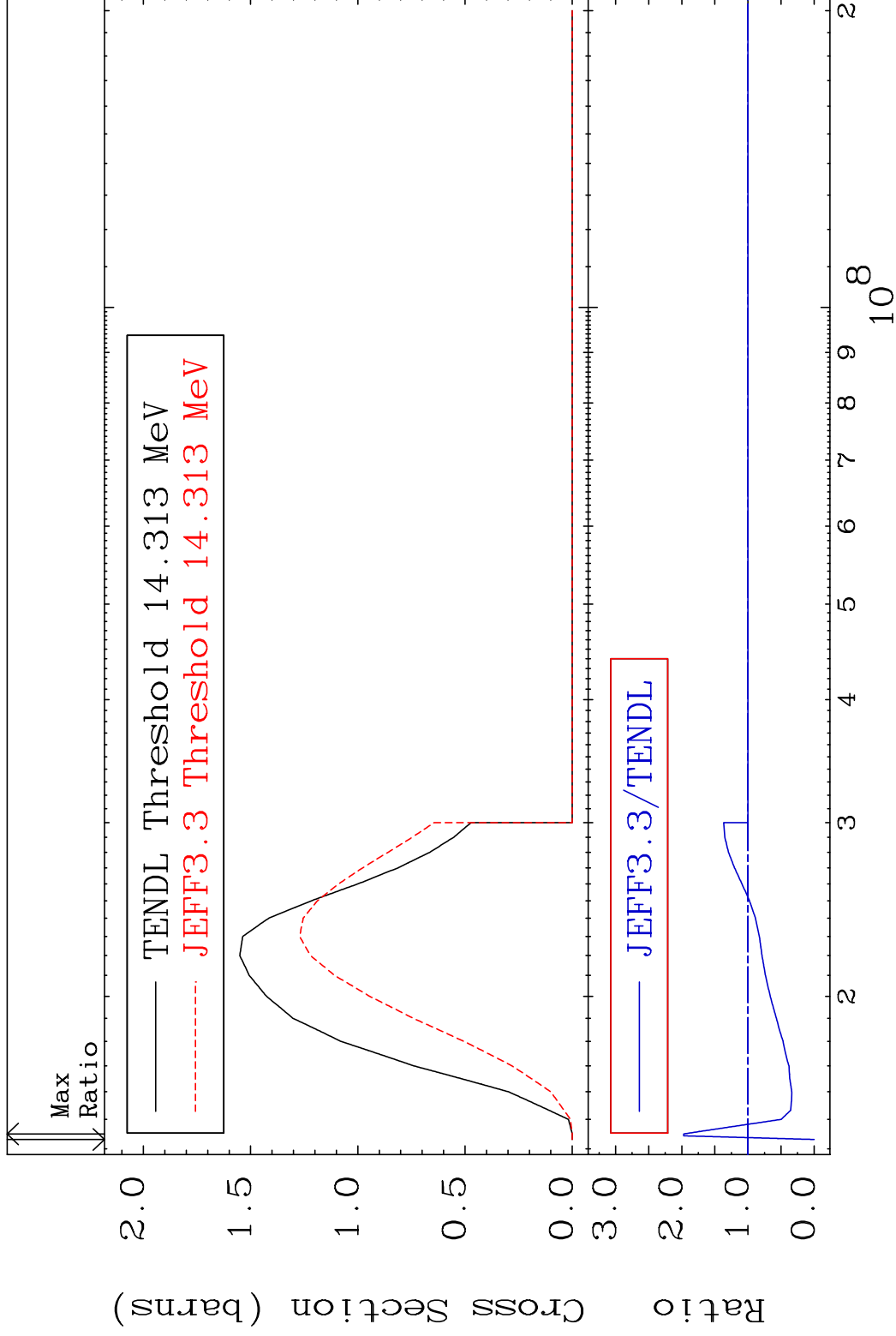
67-Ho-166m

MAT 6729

(n,3n)

67-Ho-166m

Cross Section -100.0 To 97.16 %



6

Incident Energy (eV)

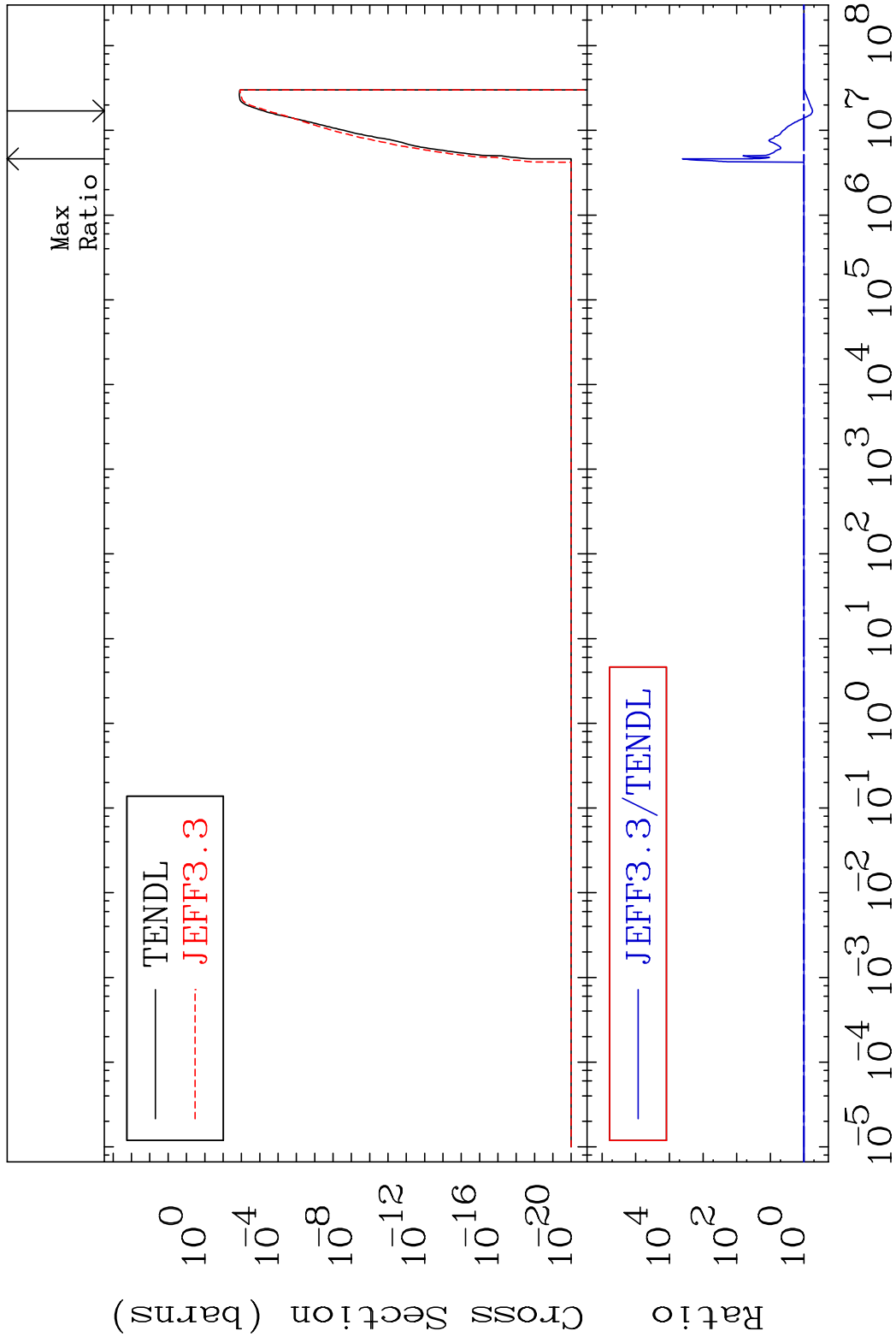
67-Ho-166m

MAT 6729

(n, n') α

67-Ho-166m

Cross Section -44.53 To 9999. %



7

Incident Energy (eV)

67-Ho-166m

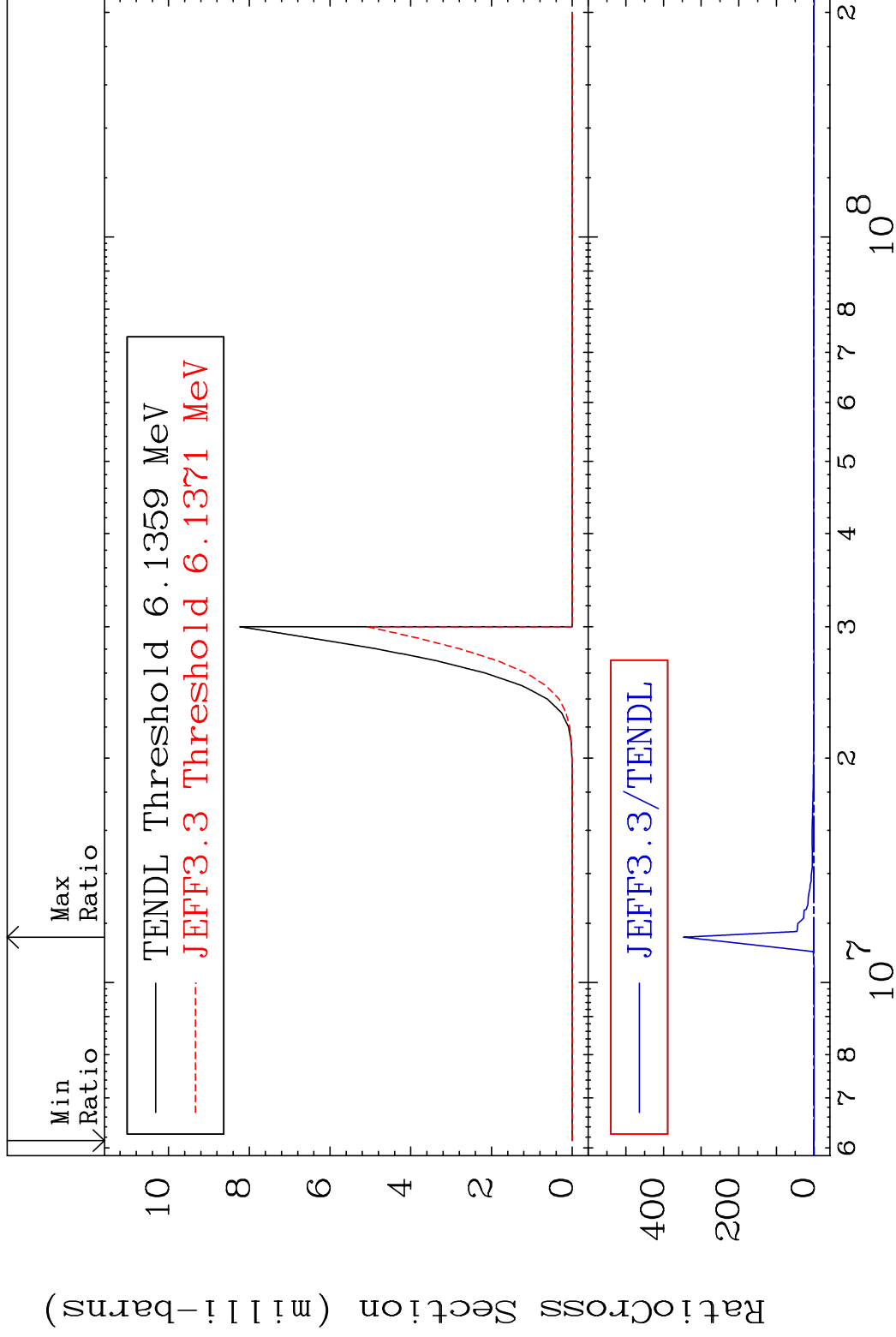
MAT 6729

(n,2n) α

67-Ho-166m

Cross Section

-100.0 To 9999. %



8

Incident Energy (eV)

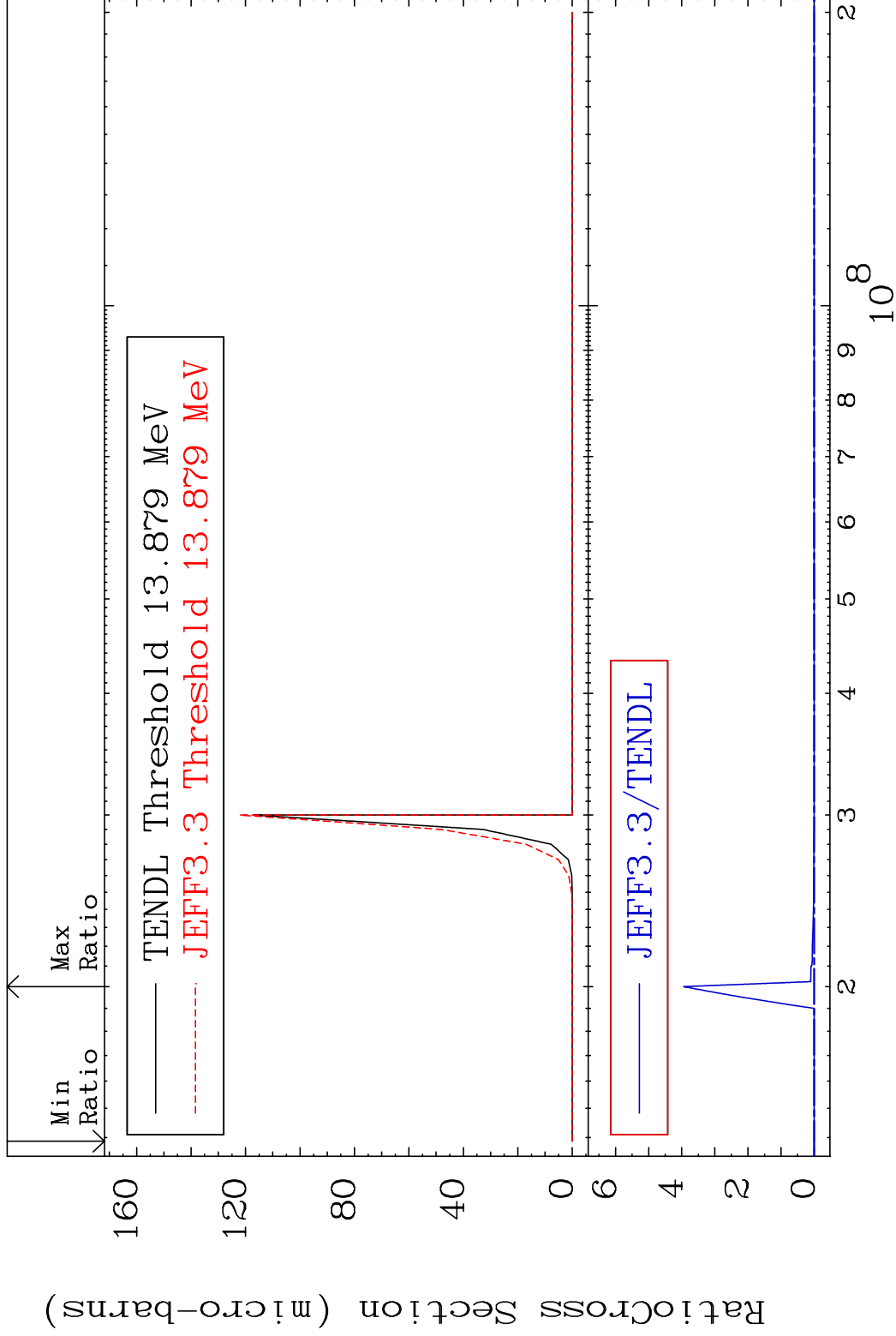
67-Ho-166m

MAT 6729

(n,3n) α

67-Ho-166m

Cross Section -100.0 To 9999. %

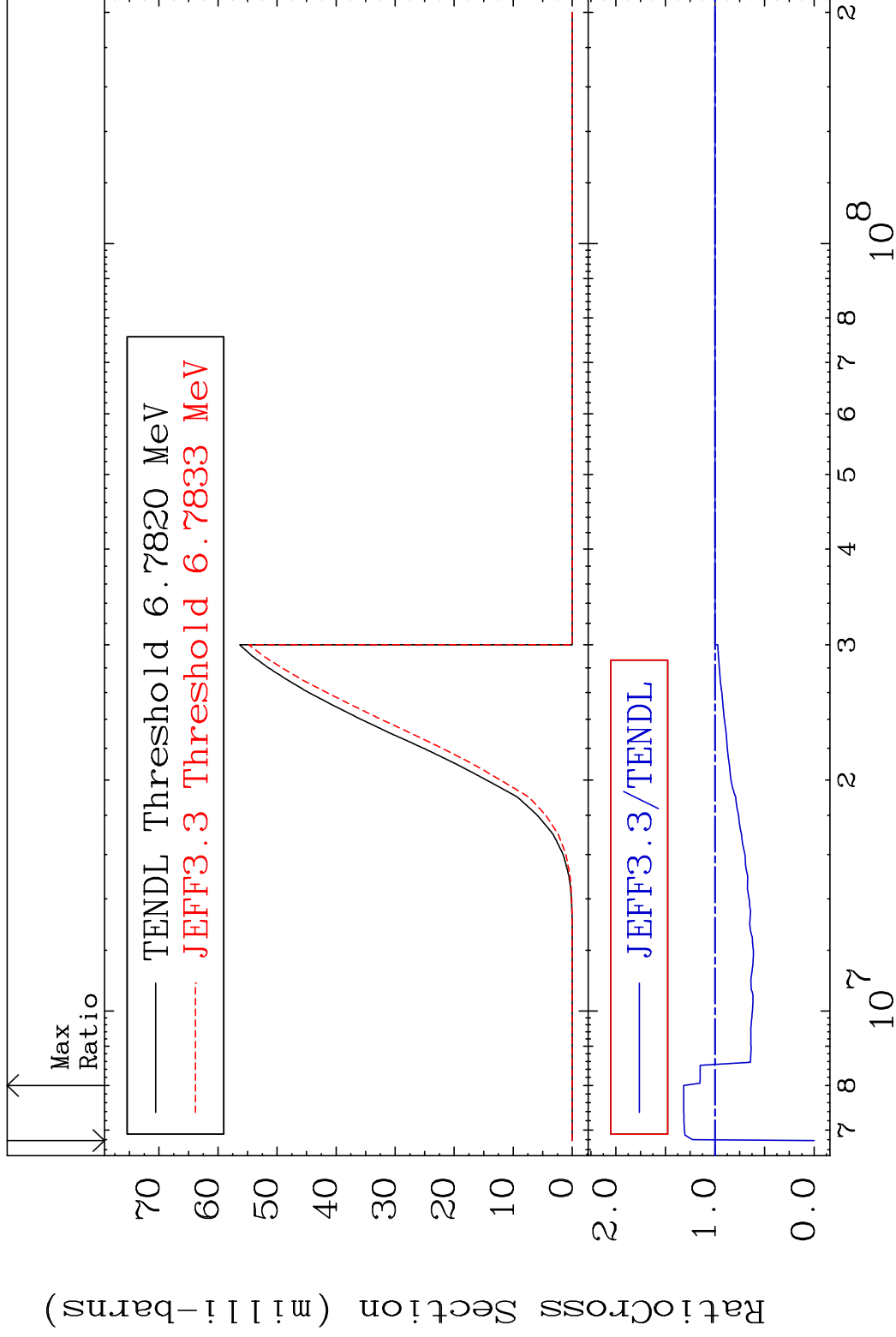


MAT 6729

(n, n') p

67-Ho-166m

Cross Section -100.0 To 31.53 %



10

Incident Energy (eV)

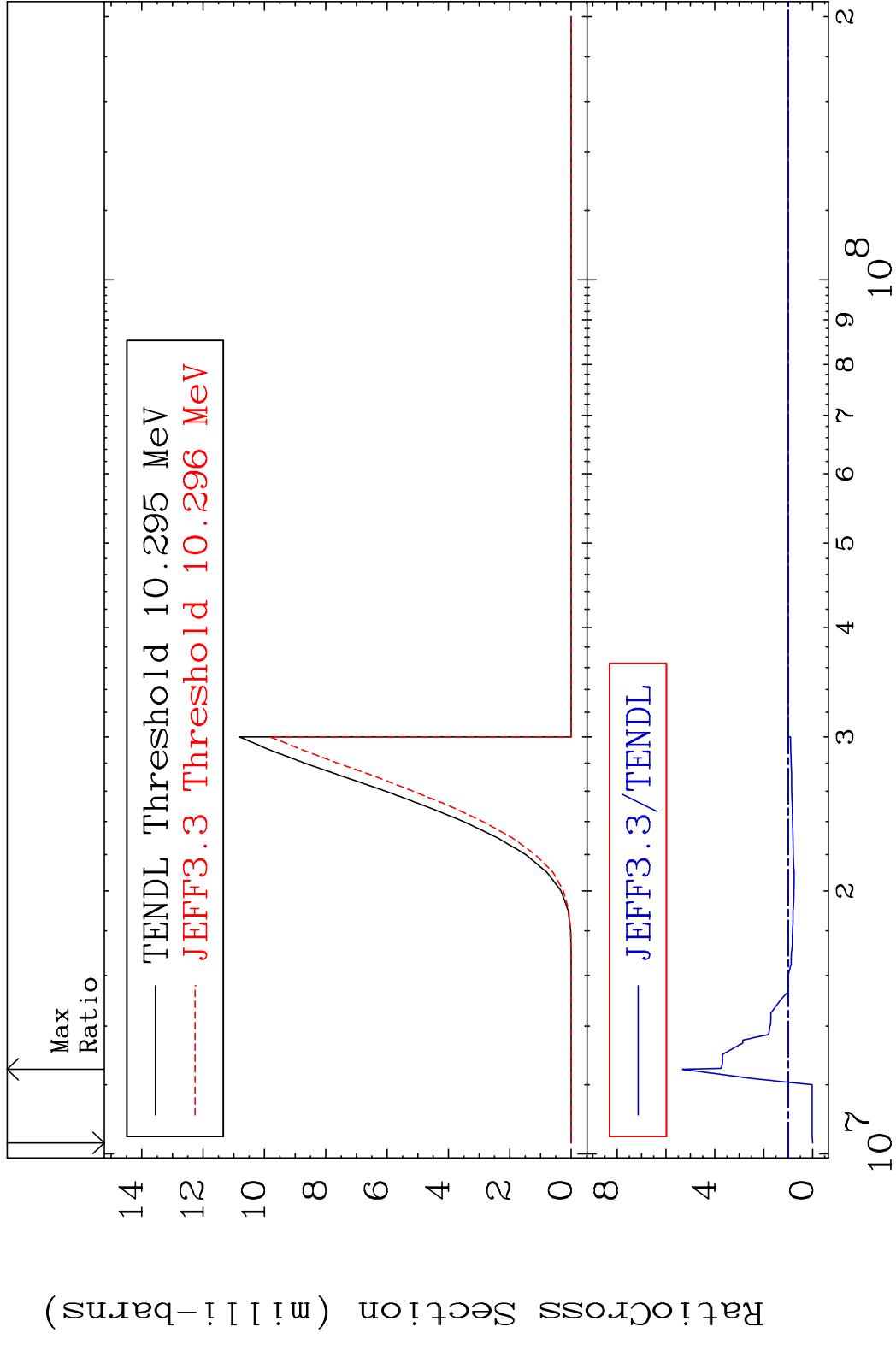
67-Ho-166m

MAT 6729

(n, n') d

67-Ho-166m

Cross Section -100.0 To 432.9 %



11

Incident Energy (eV)

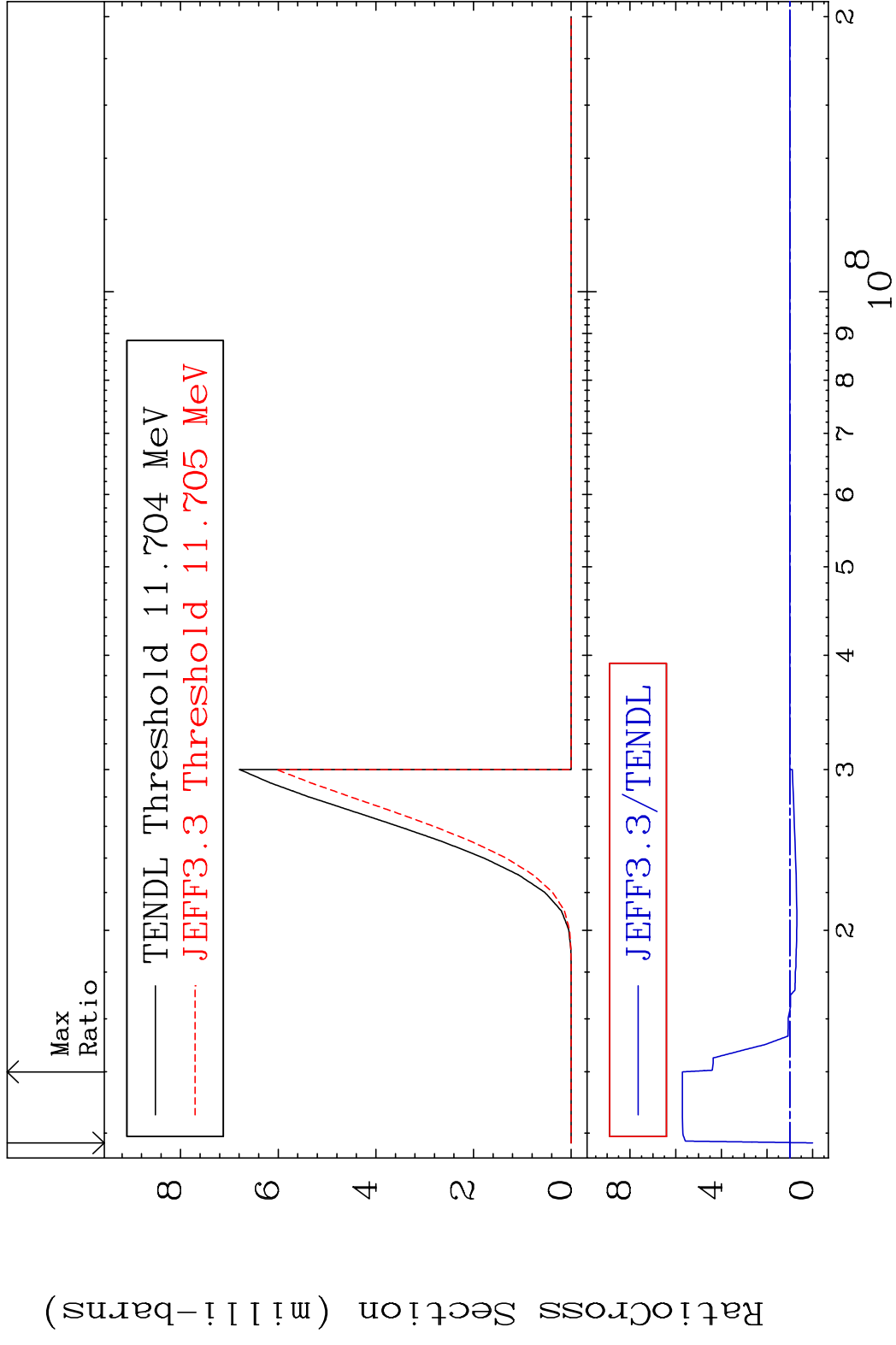
67-Ho-166m

MAT 6729

(n, n') t

67-Ho-166m

Cross Section -100.0 To 470.7 %

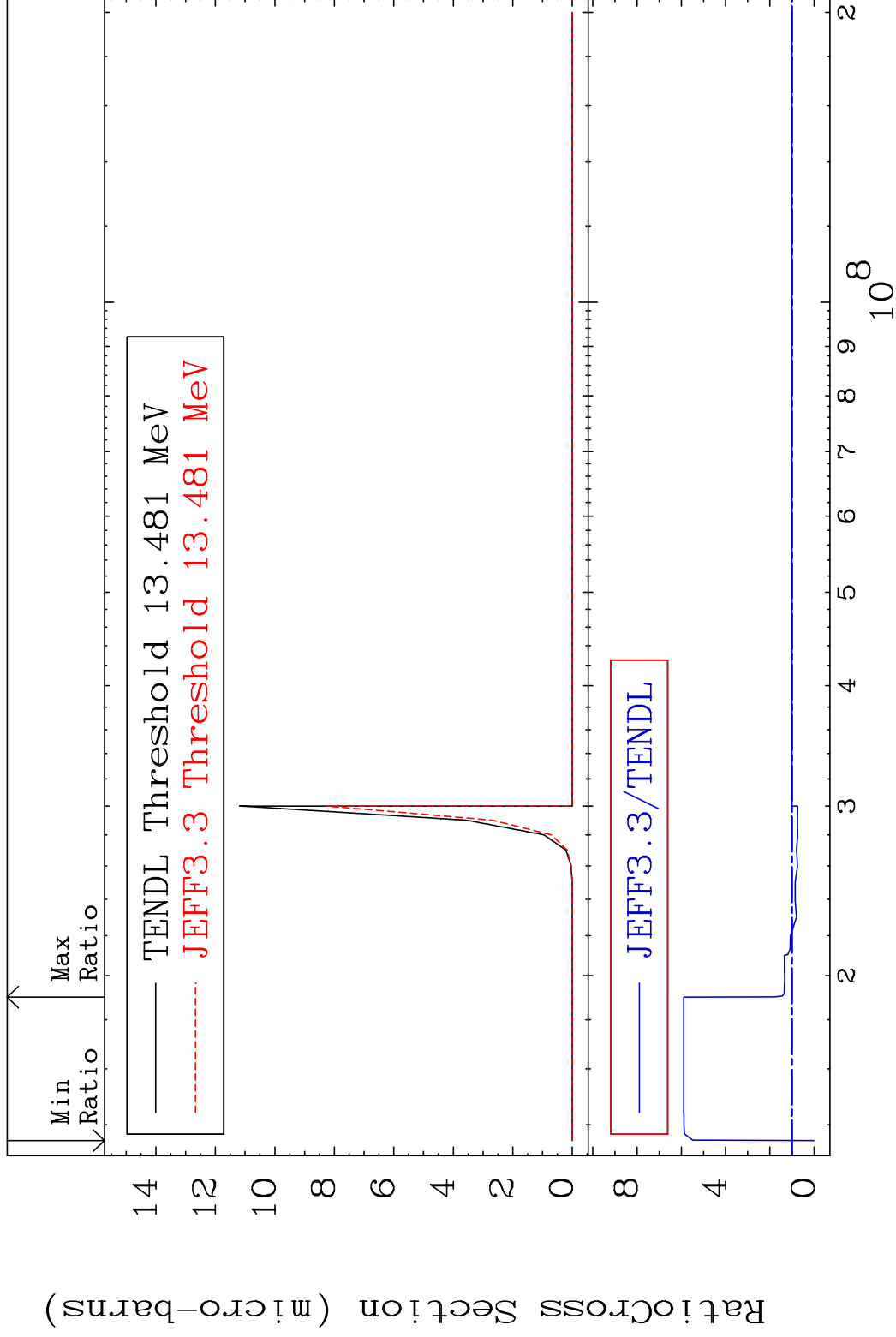


MAT 6729

(n,n') He-3

67-Ho-166m

Cross Section -100.0 To 489.5 %



13

Incident Energy (eV)

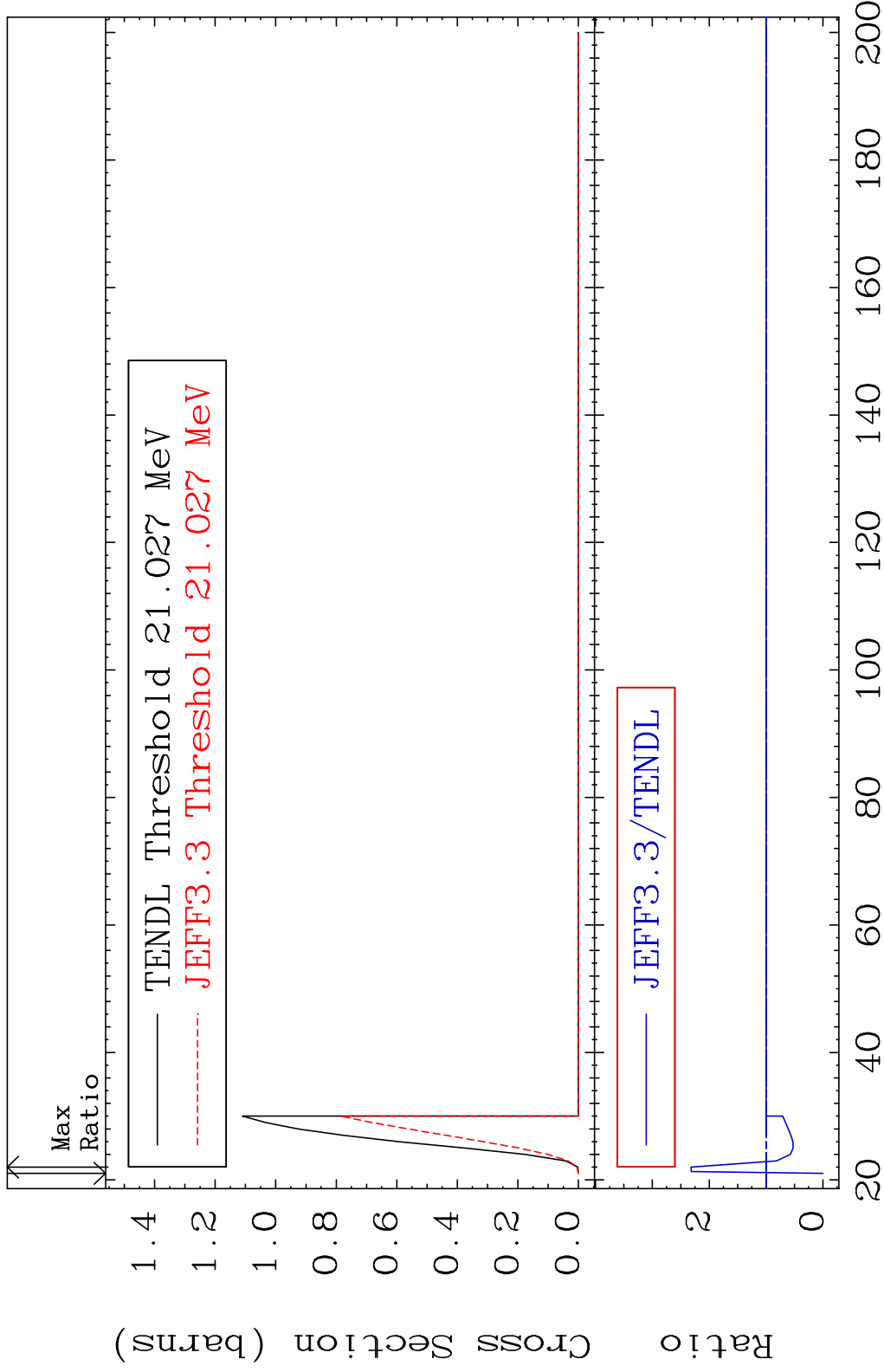
67-Ho-166m

MAT 6729

(n, 4n)

67-Ho-166m

Cross Section -100.0 To 132.0 %



14

Incident Energy (MeV)

67-Ho-166m

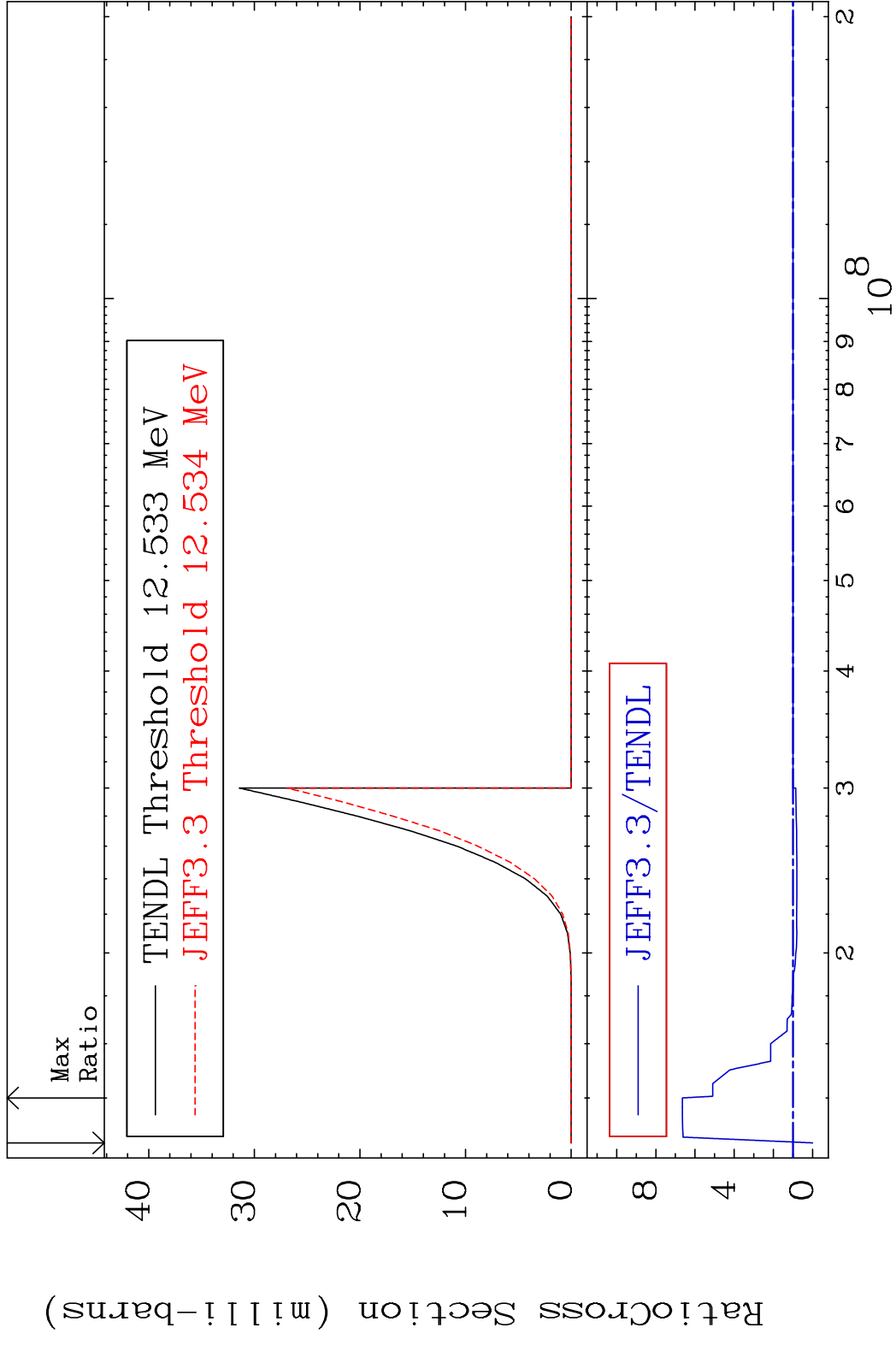
MAT 6729

(n,2n) p

67-Ho-166m

Cross Section

-100.0 To 564.6 %



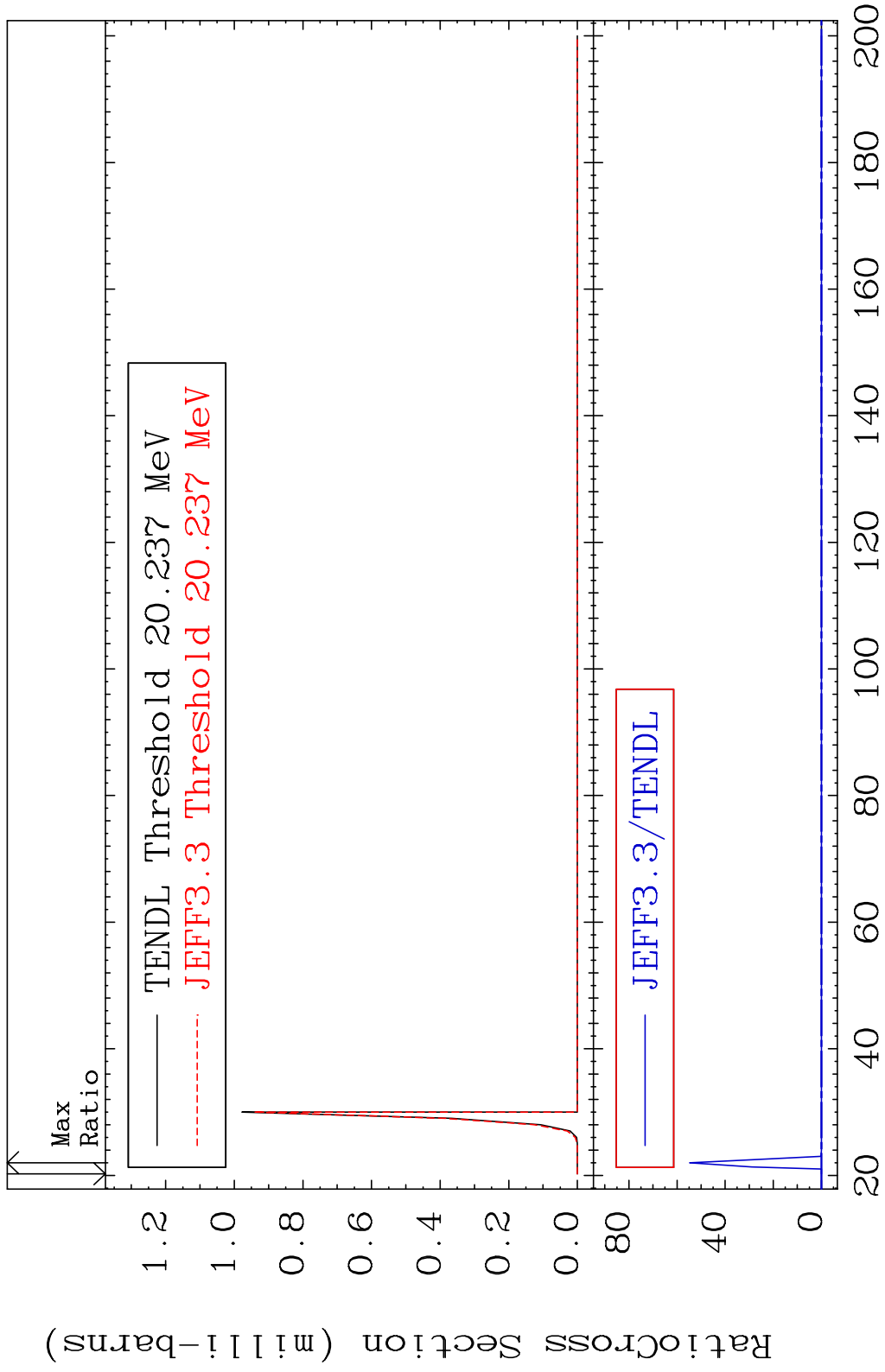
MAT 6729

(n,3n) p

67-Ho-166m

Cross Section

-100.0 To 9999. %



16

Incident Energy (MeV)

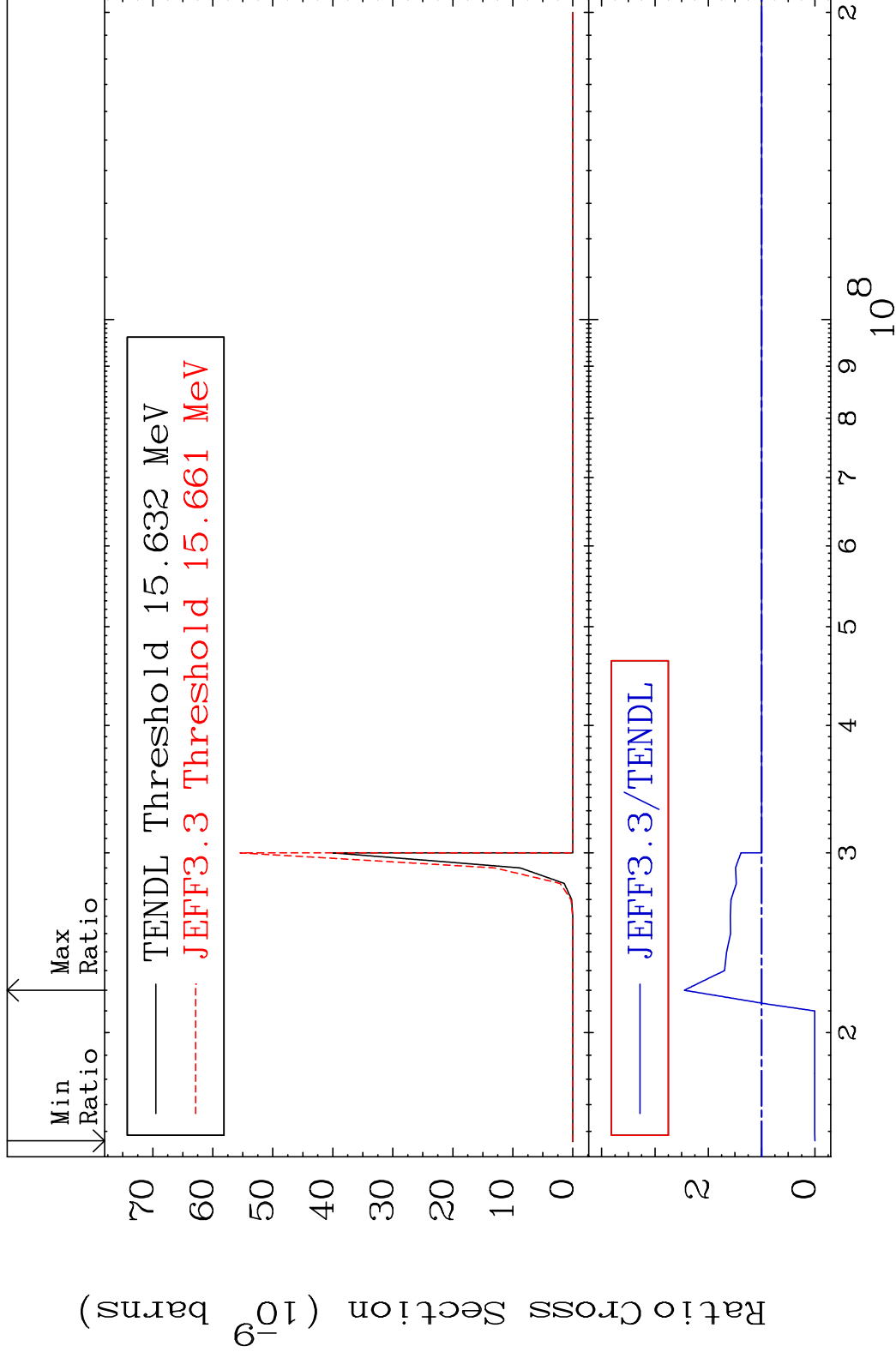
67-Ho-166m

MAT 6729

(n,2n) p

67-Ho-166m

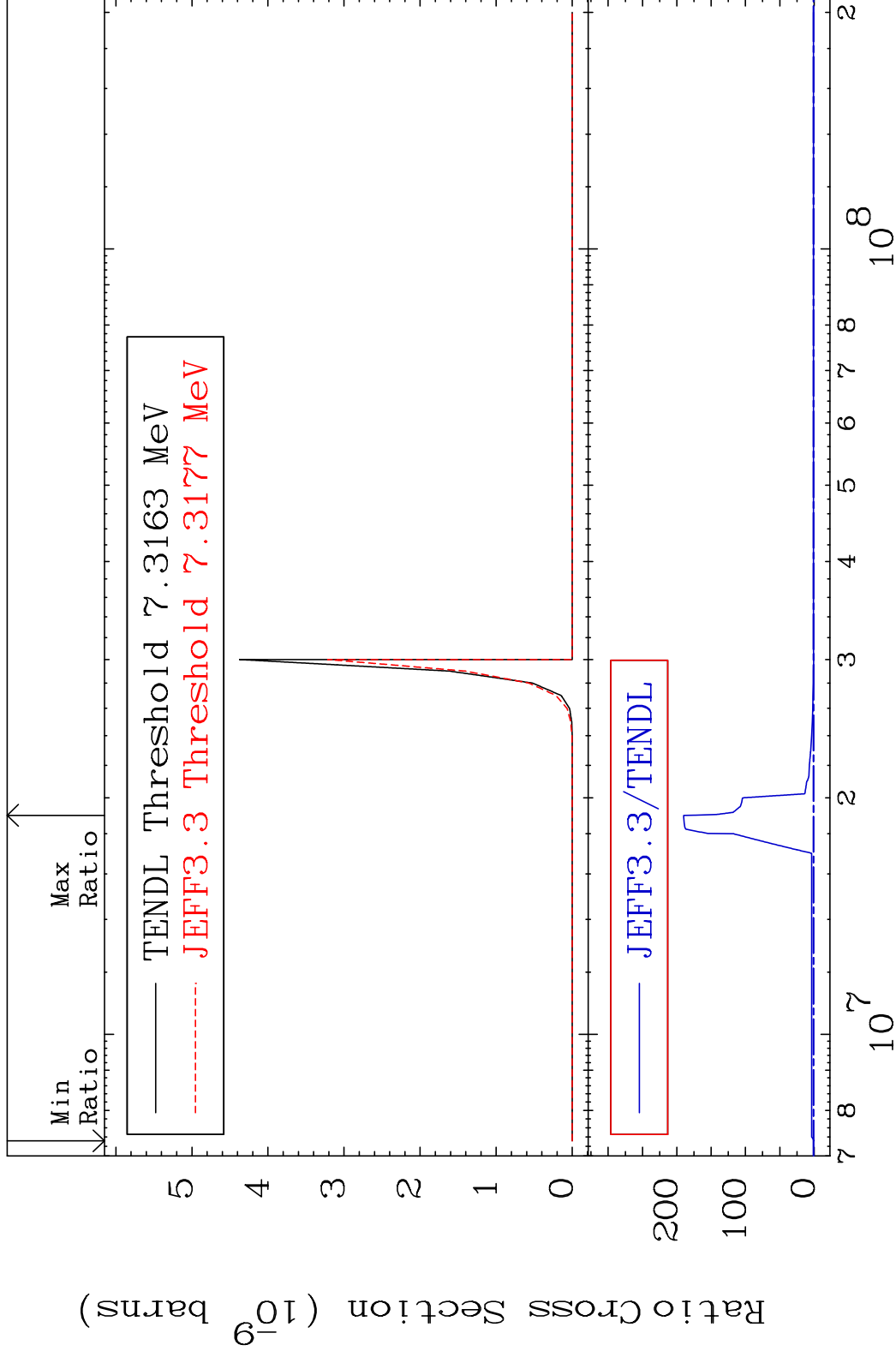
Cross Section -100.0 To 144.9 %



MAT 6729

(n, n') p α 67-Ho-166m

Cross Section -100.0 To 9999. %

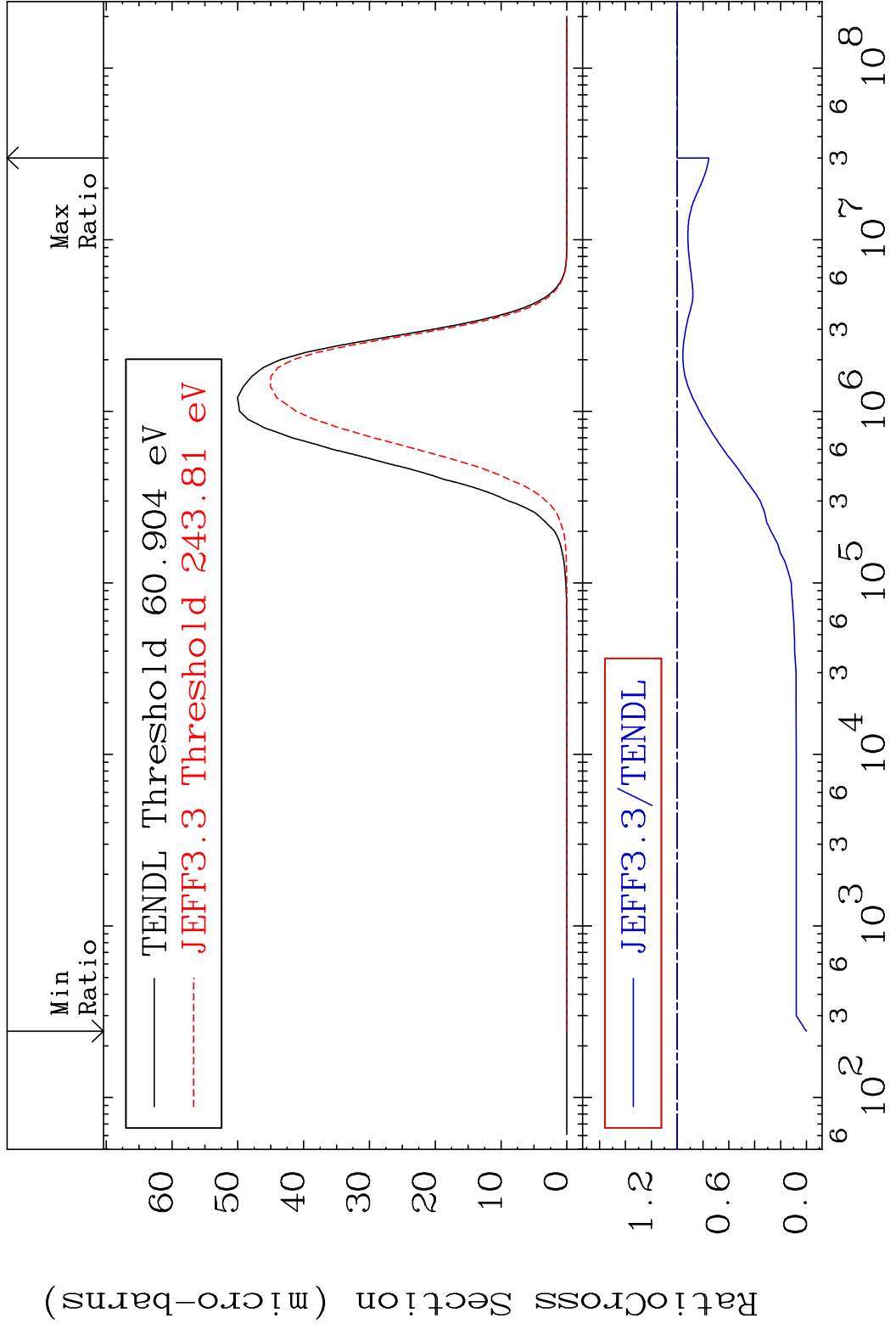


18

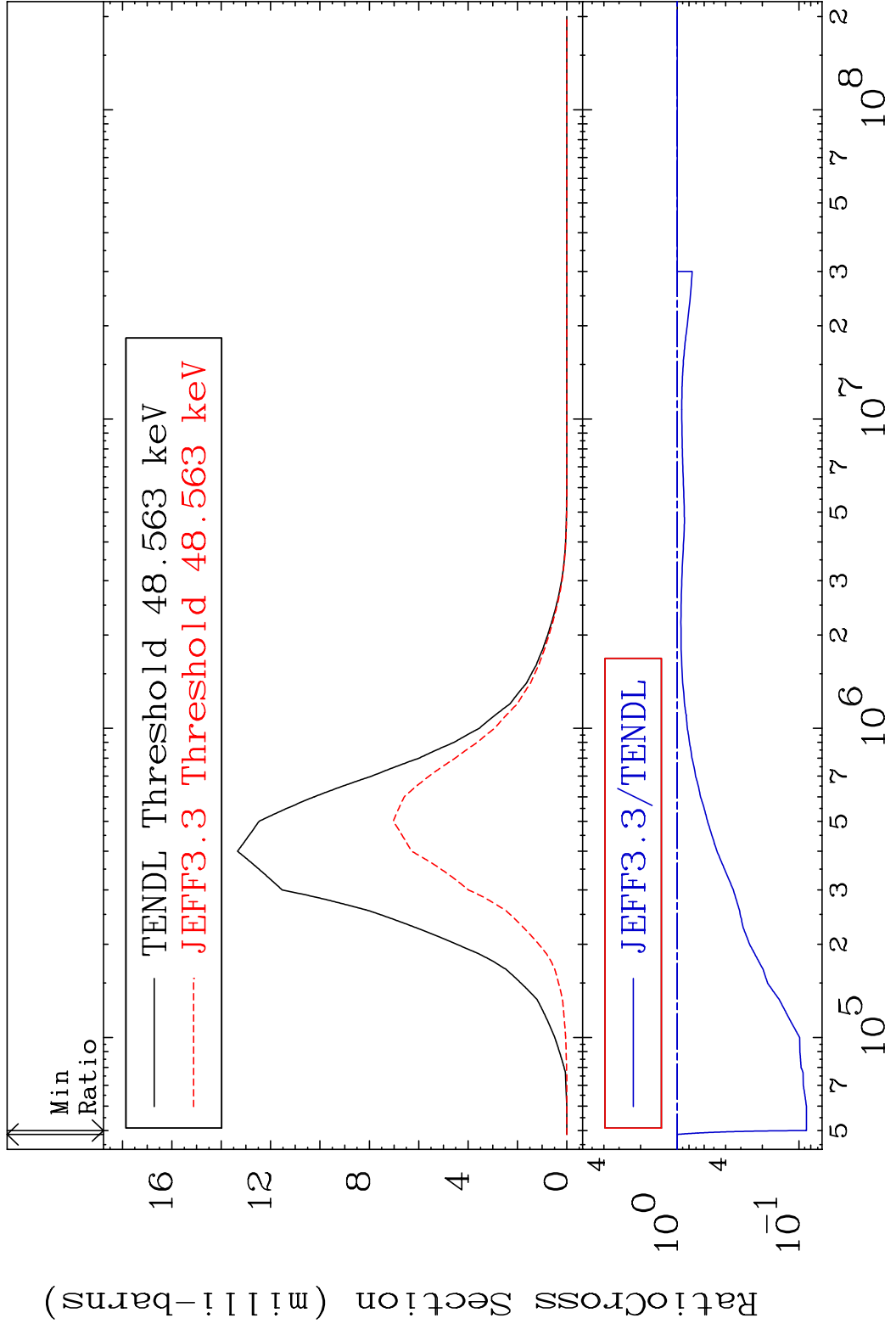
Incident Energy (eV)

67-Ho-166m

MAT 6729 MT= 51 (n, n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %

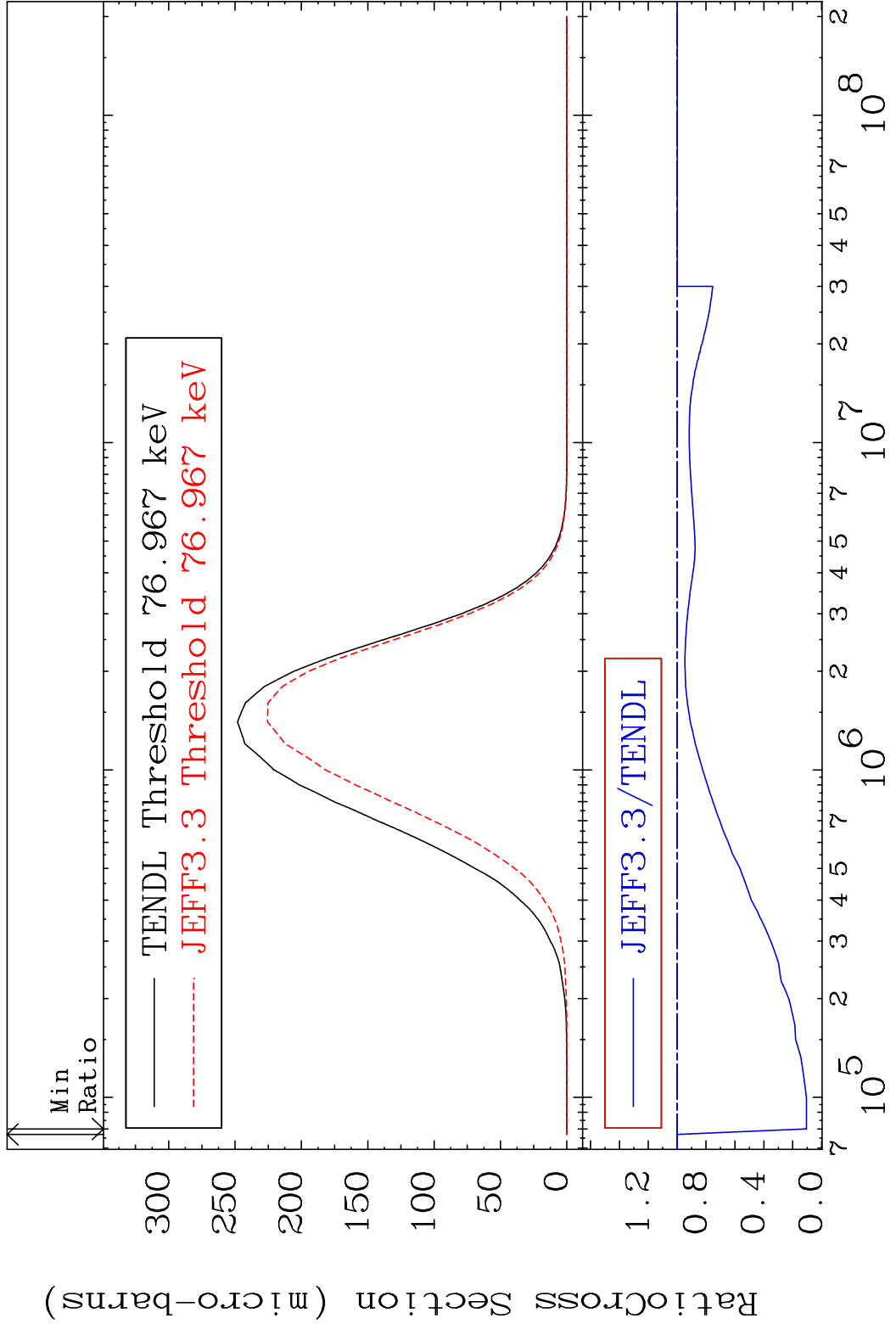


MAT 6729 MT= 52 (n, n') Level 67-Ho-166m
 Cross Section -91.31 To 0.000 %

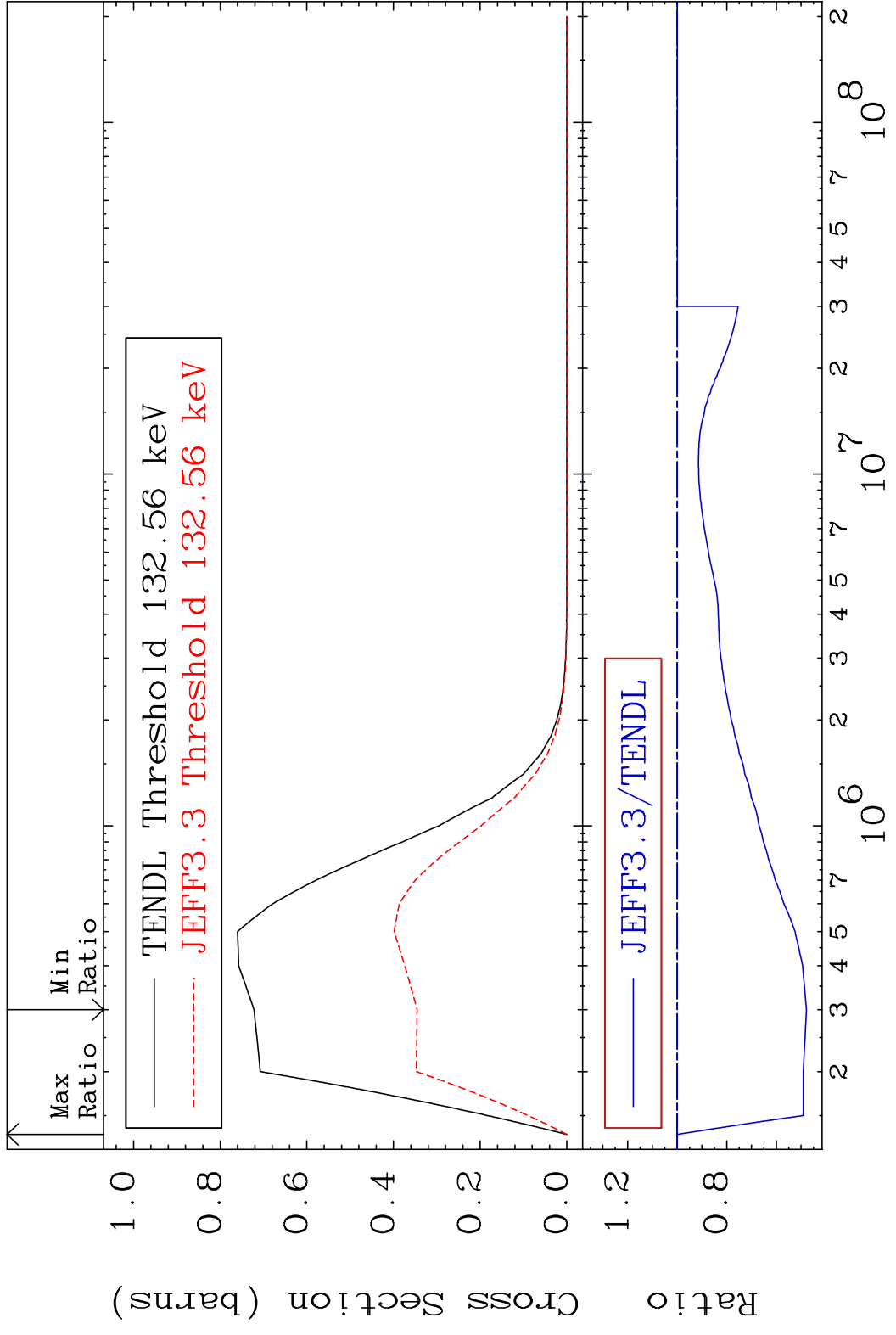


20 67-Ho-166m

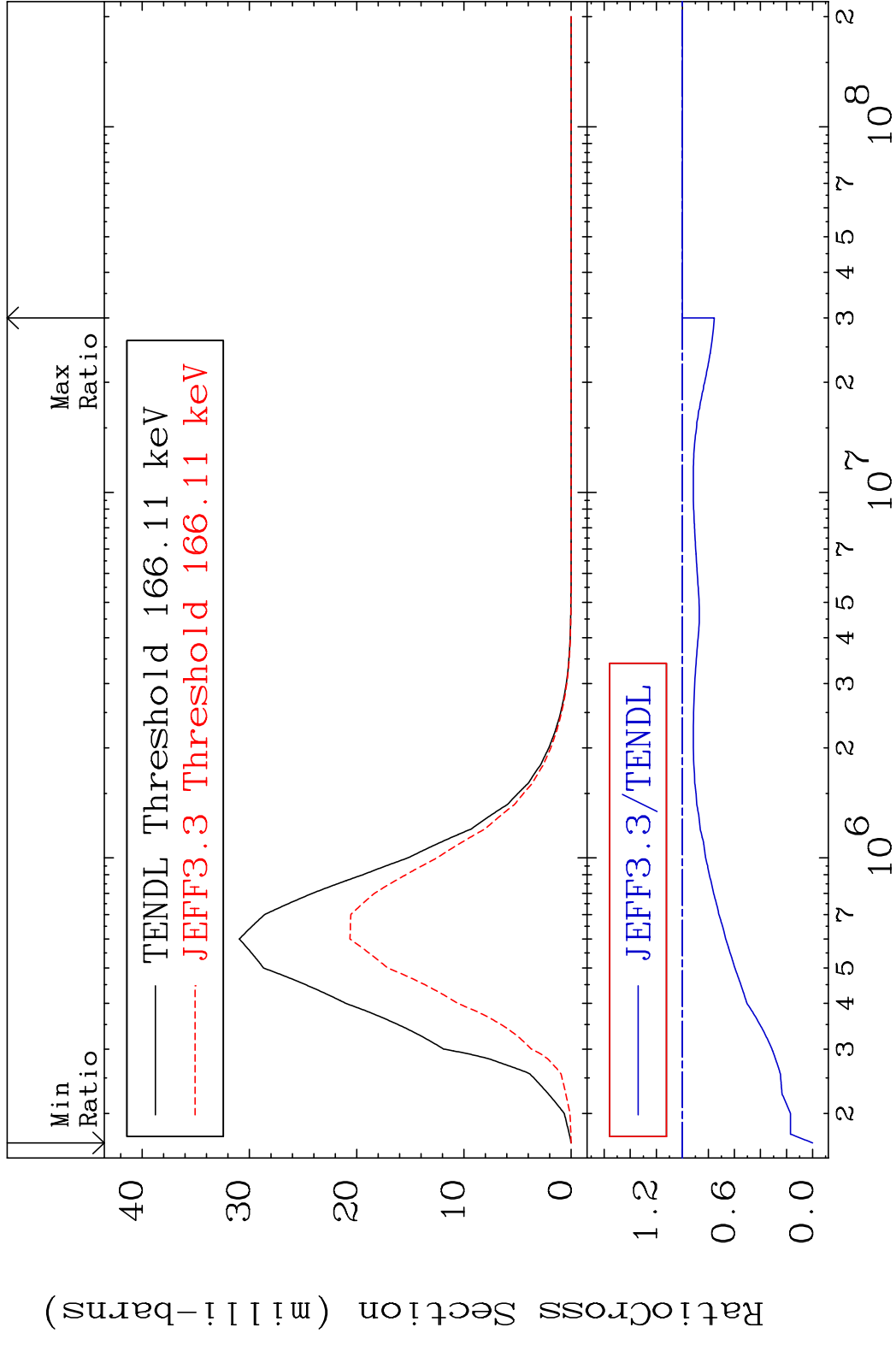
MAT 6729 MT= 53 (n, n') Level 67-Ho-166m
 Cross Section -89.47 To 0.000 %



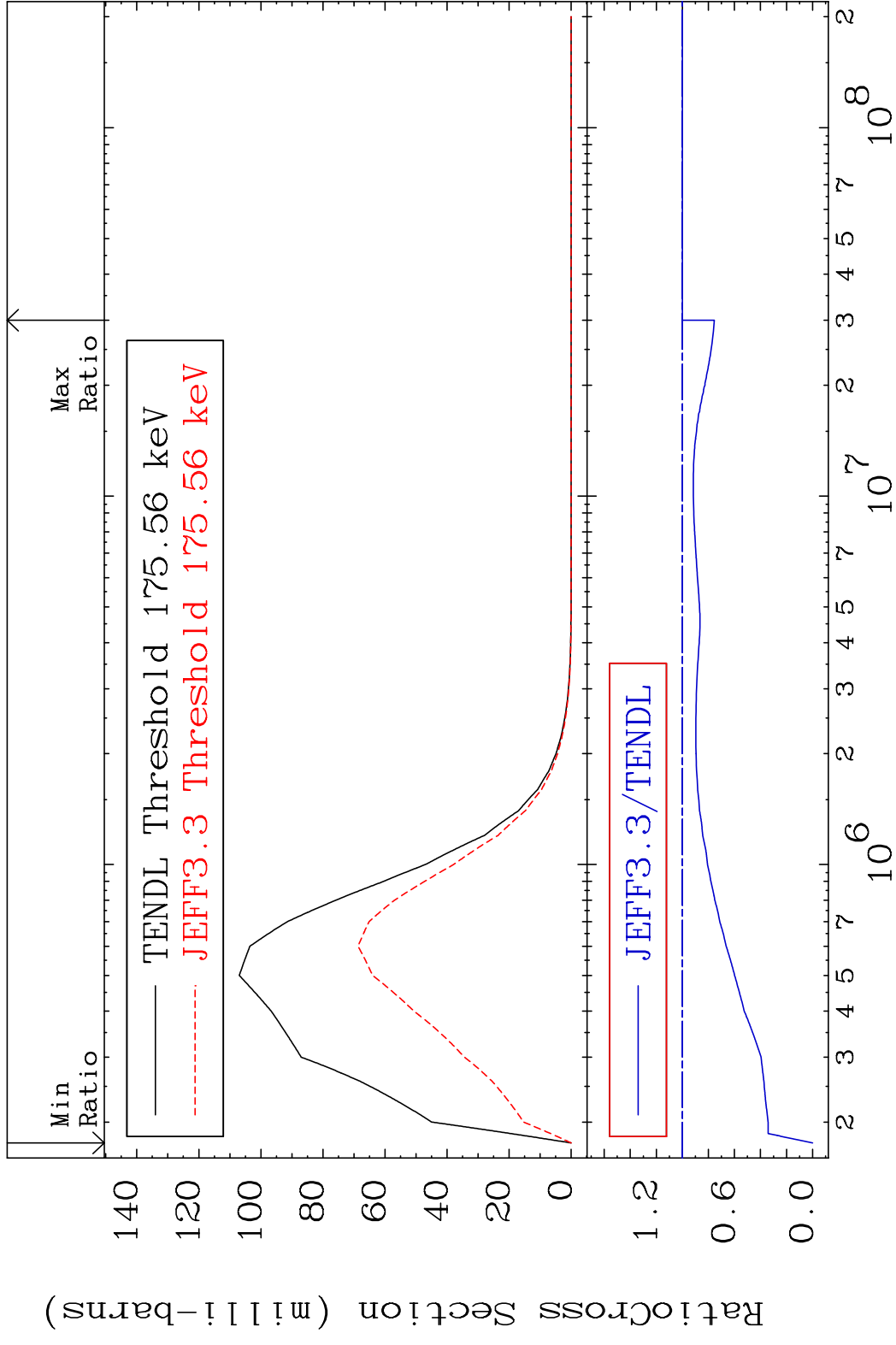
MAT 6729 MT= 54 (n,n') Level 67-Ho-166m
 Cross Section -52.14 To 0.000 %



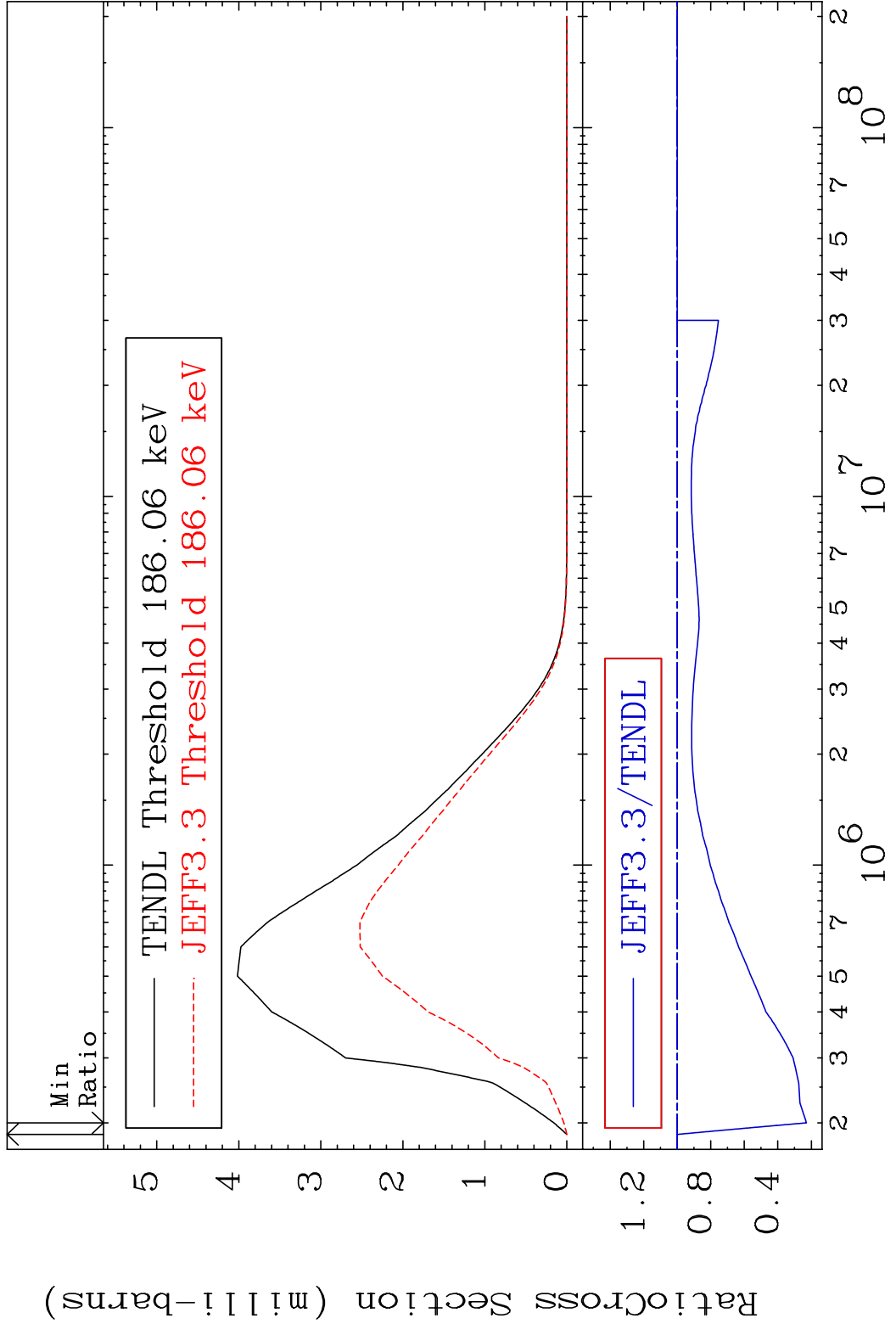
MAT 6729 MT= 55 (n,n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %



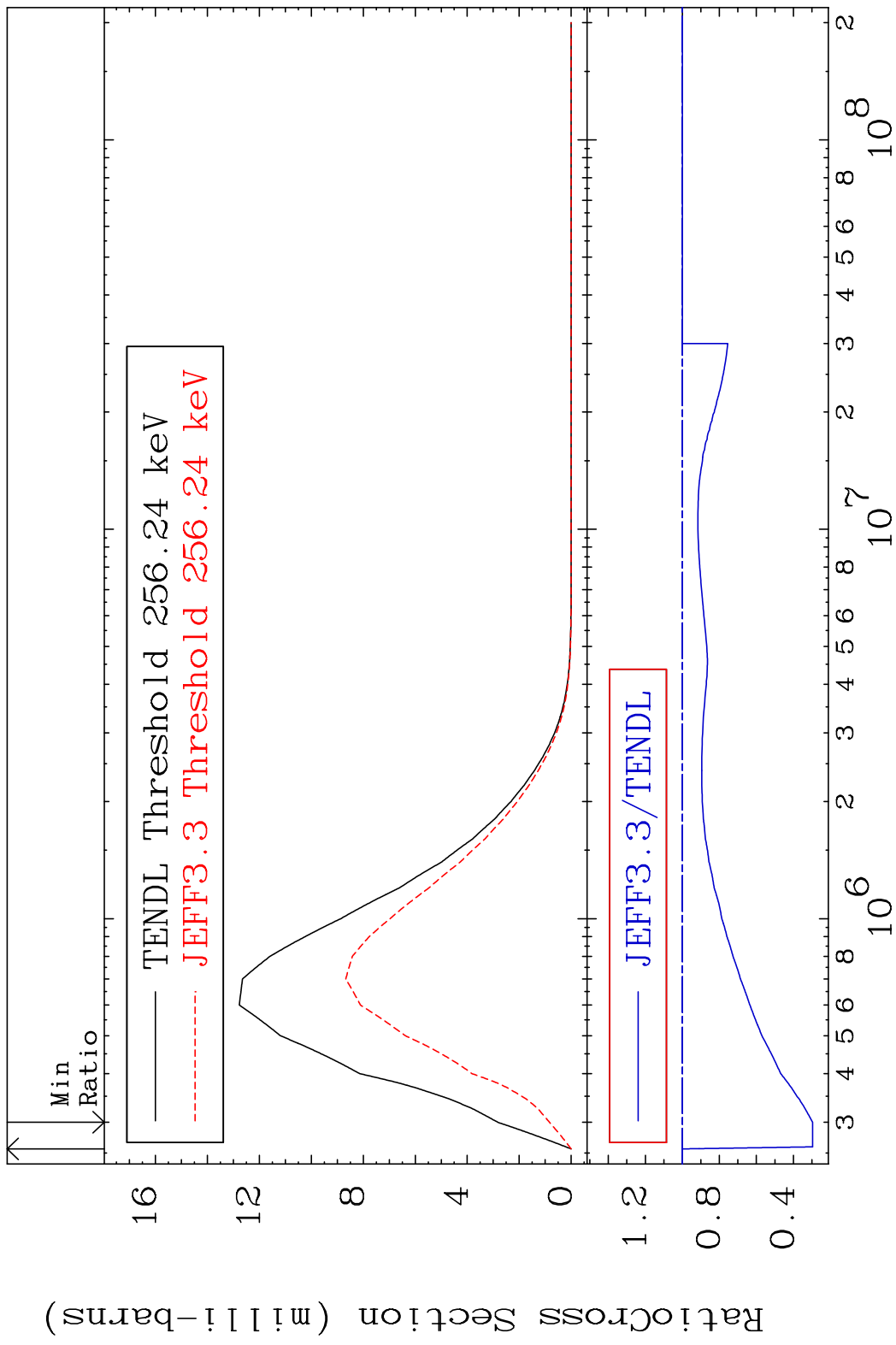
MAT 6729 MT= 56 (n,n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %



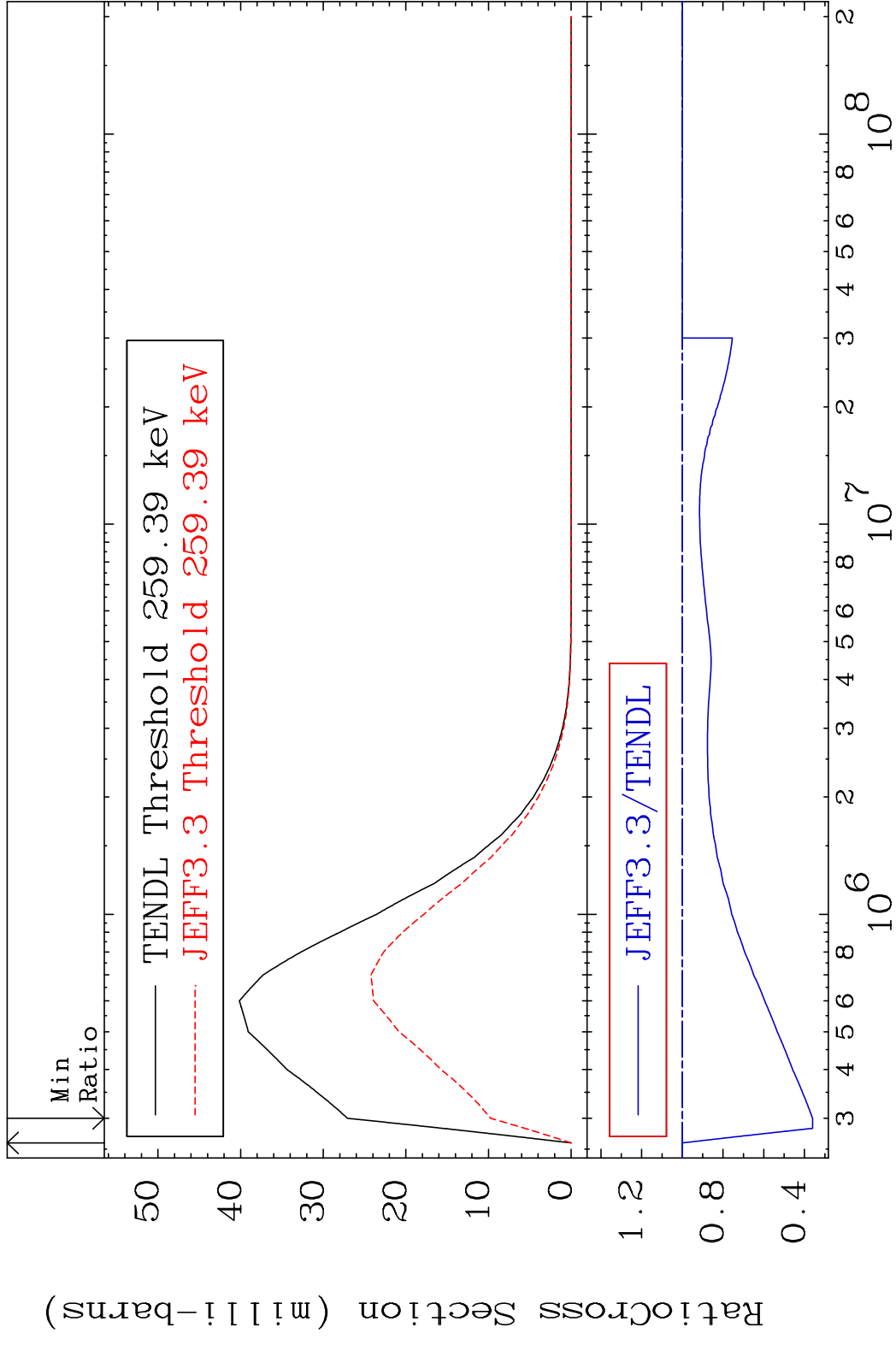
MAT 6729 MT= 57 (n,n') Level 67-Ho-166m
 Cross Section -77.07 To 0.000 %



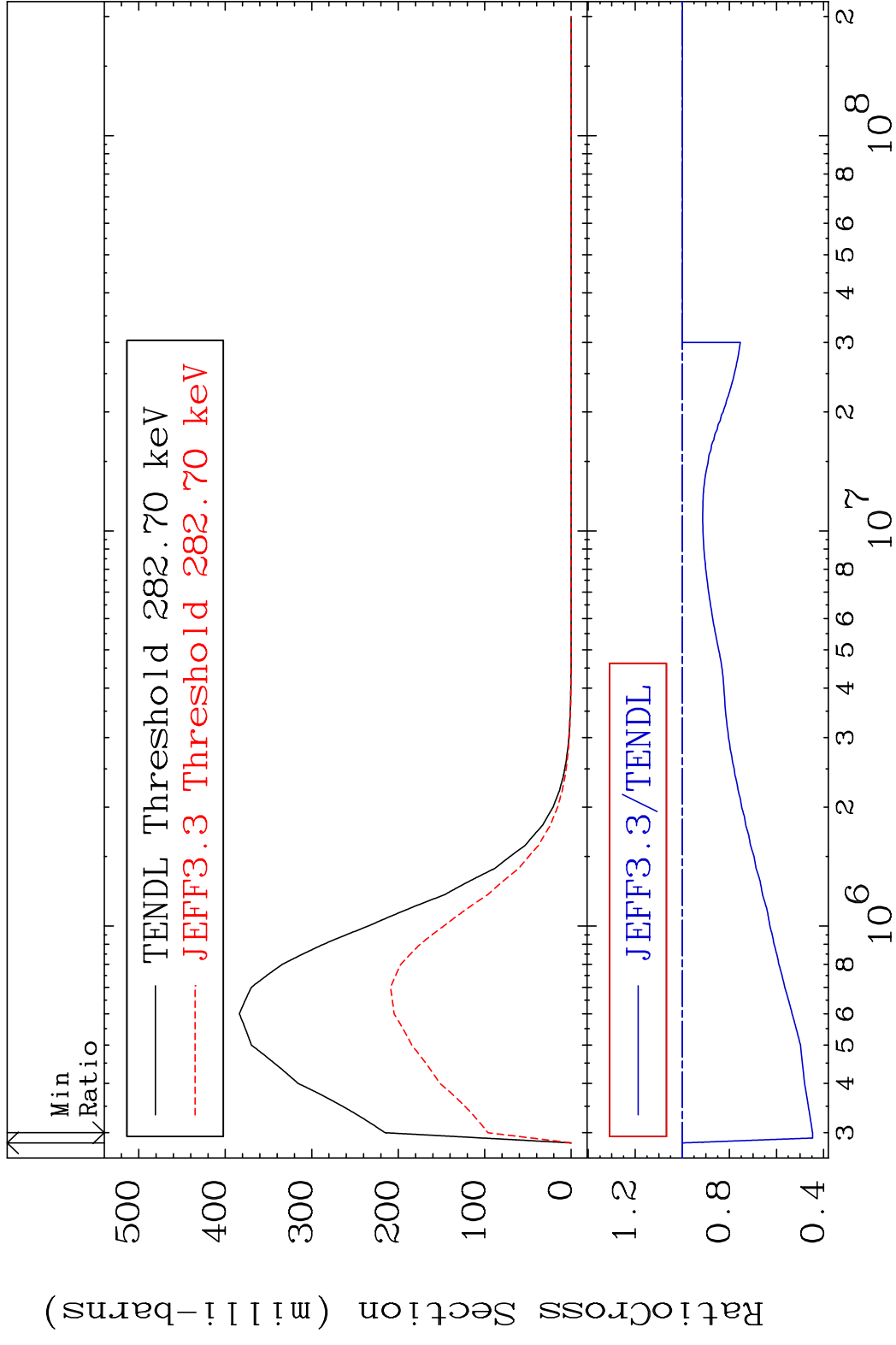
MAT 6729 MT= 58 (n, n') Level 67-Ho-166m
 Cross Section -70.36 To 0.000 %



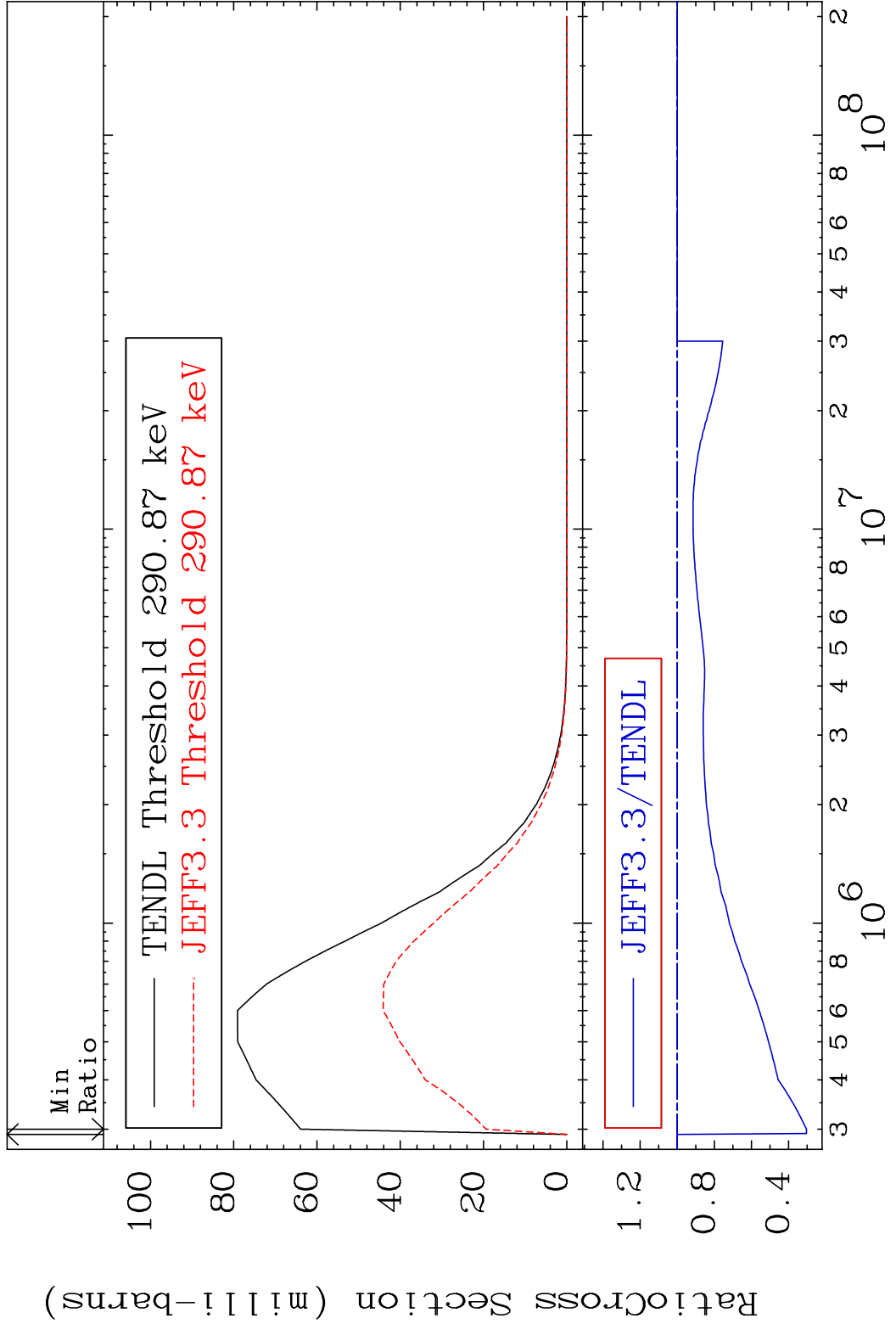
MAT 6729 MT= 59 (n, n') Level 67-Ho-166m
 Cross Section -63.97 To 0.000 %



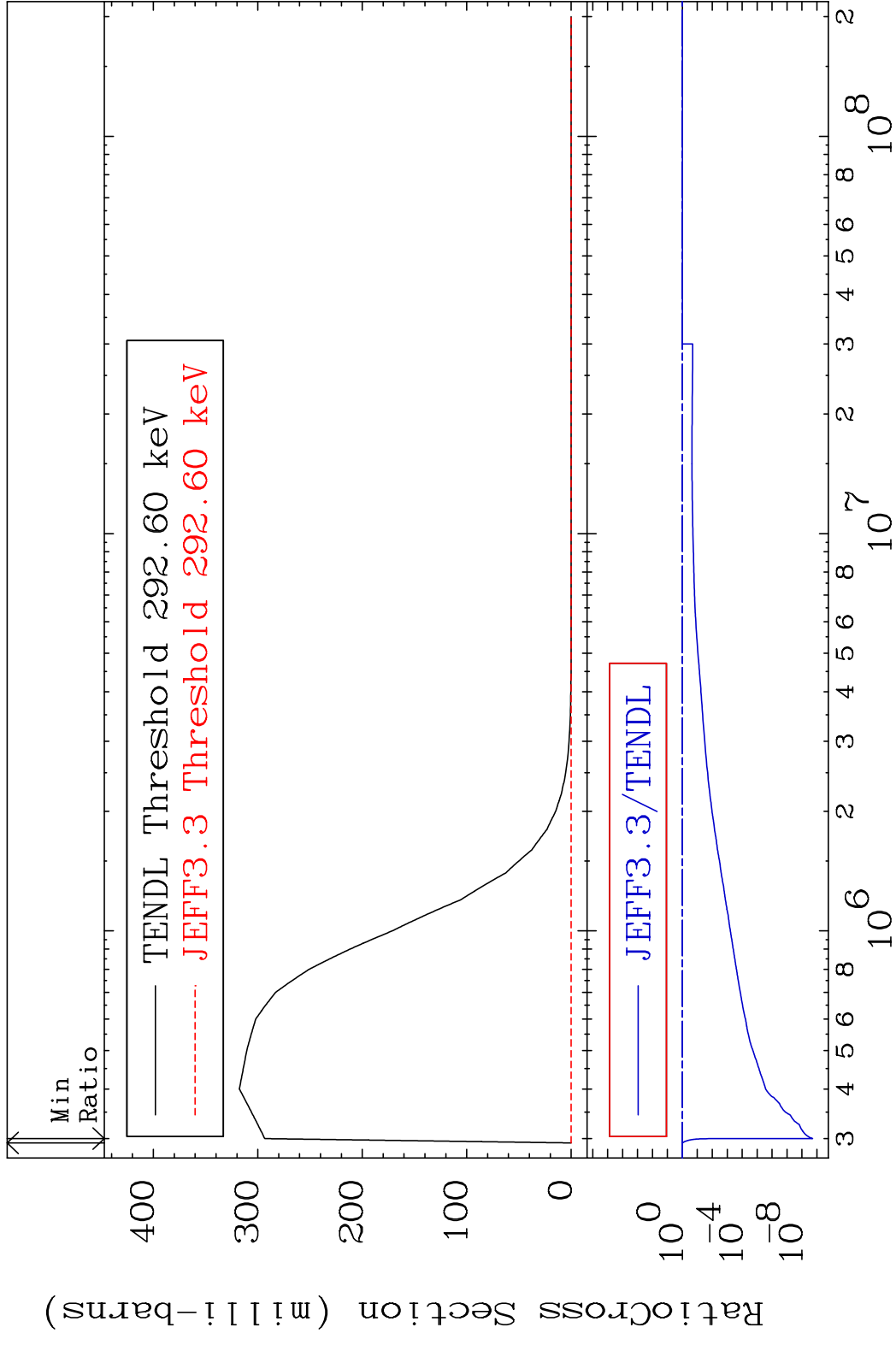
MAT 6729 MT= 60 (n, n') Level 67-Ho-166m
 Cross Section -55.31 To 0.000 %



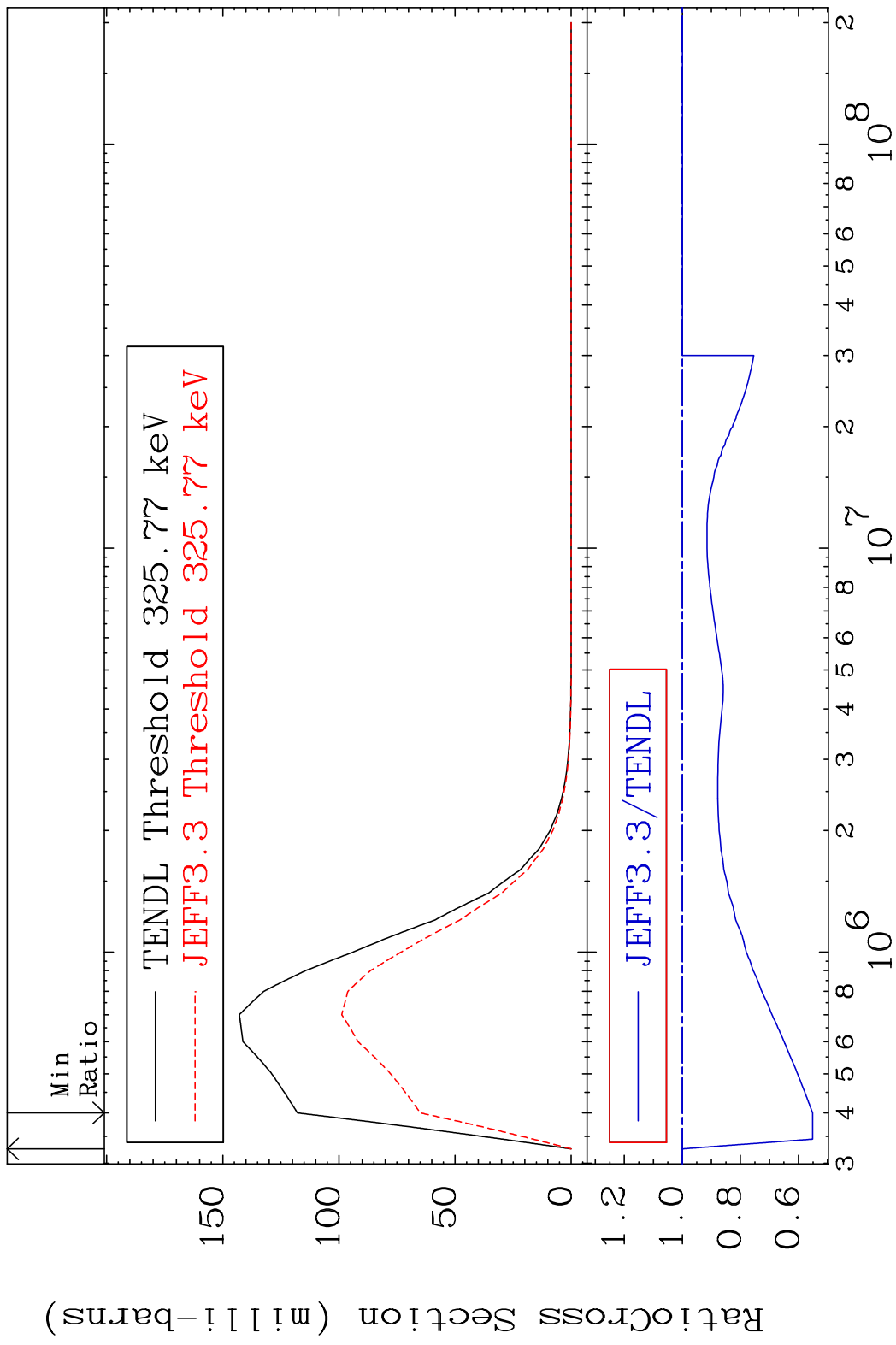
MAT 6729 MT= 61 (n,n') Level 67-Ho-166m
 Cross Section -69.65 To 0.000 %



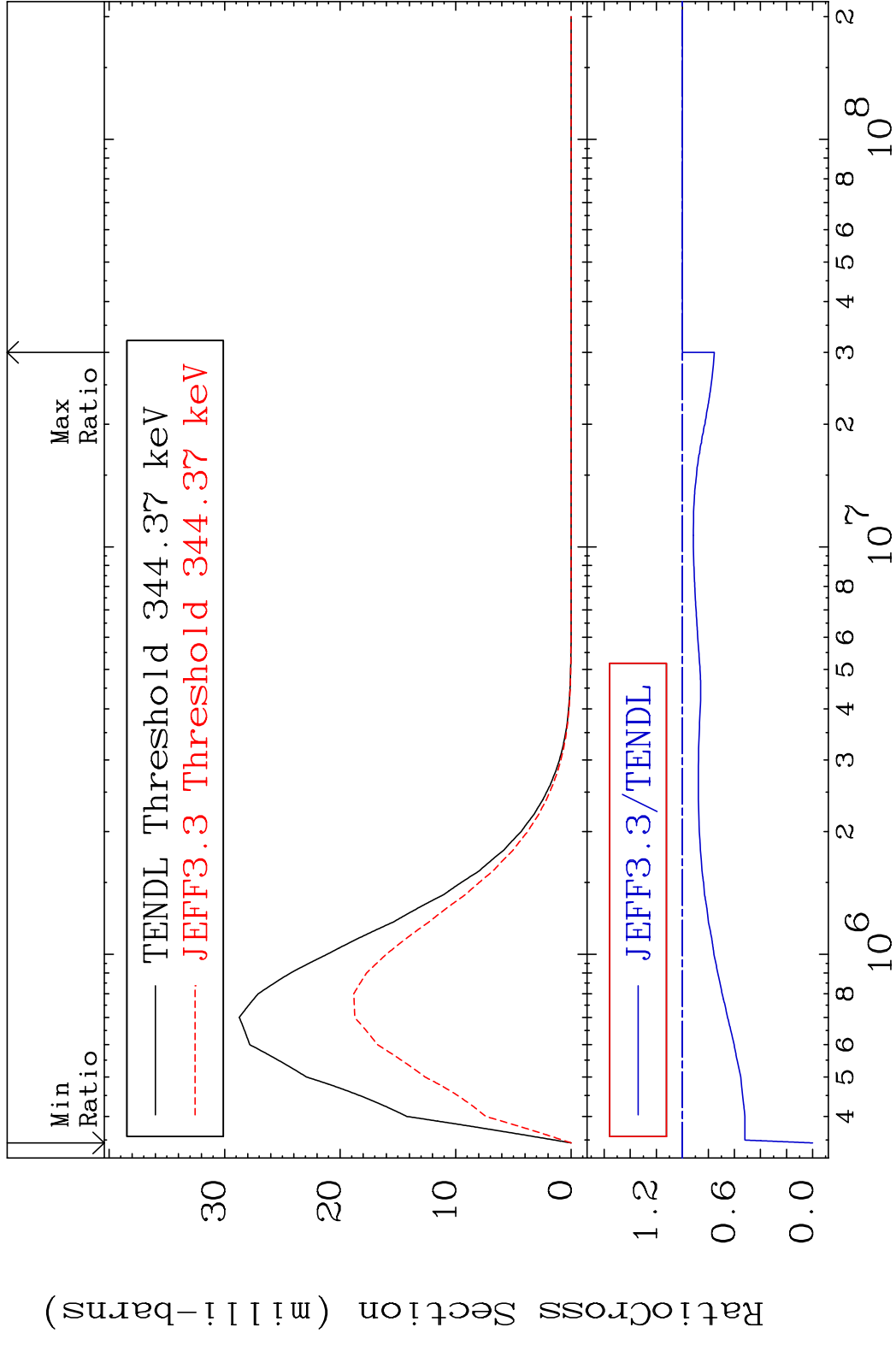
MAT 6729 MT= 62 (n, n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %



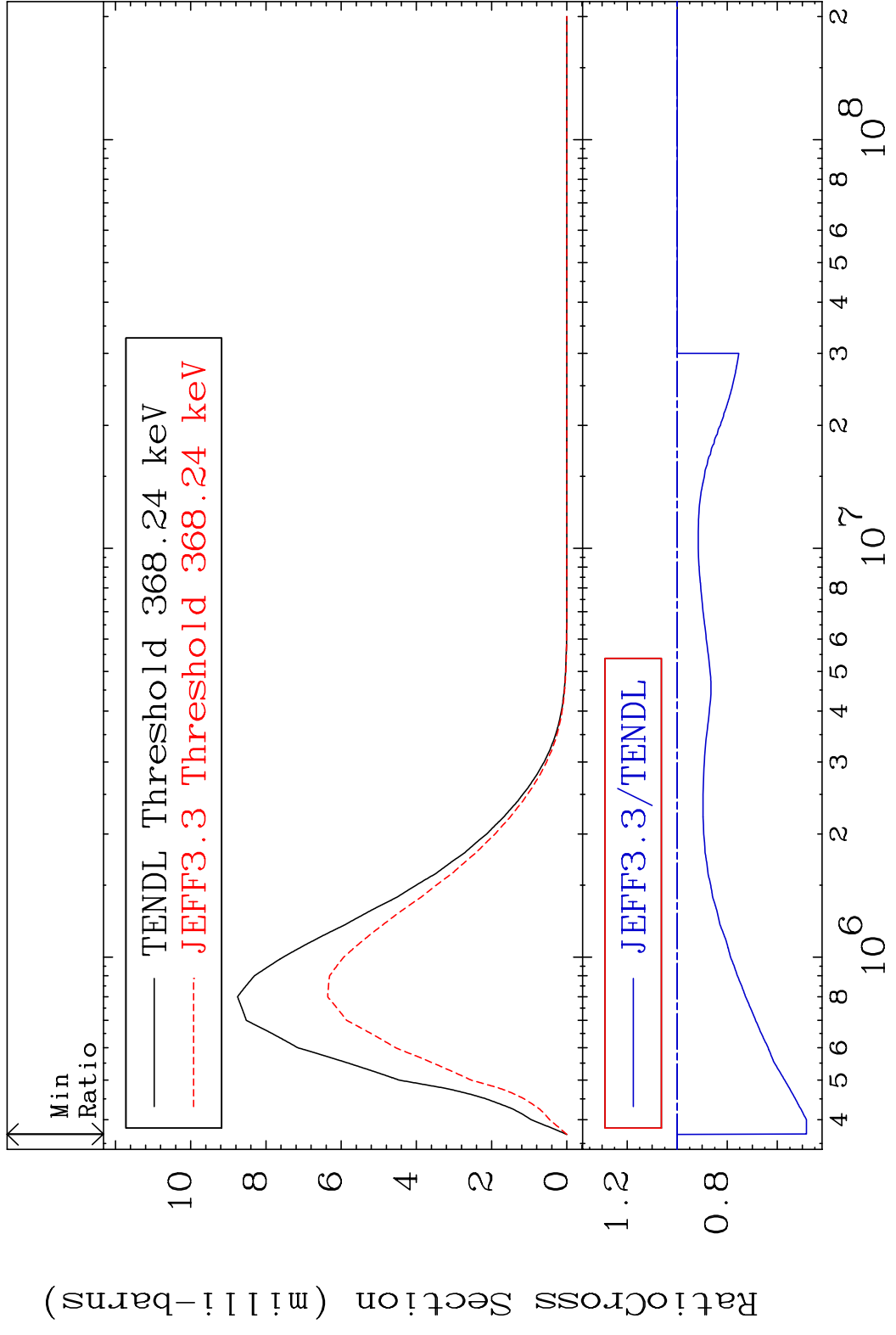
MAT 6729 MT= 63 (n, n') Level 67-Ho-166m
 Cross Section -44.86 To 0.000 %



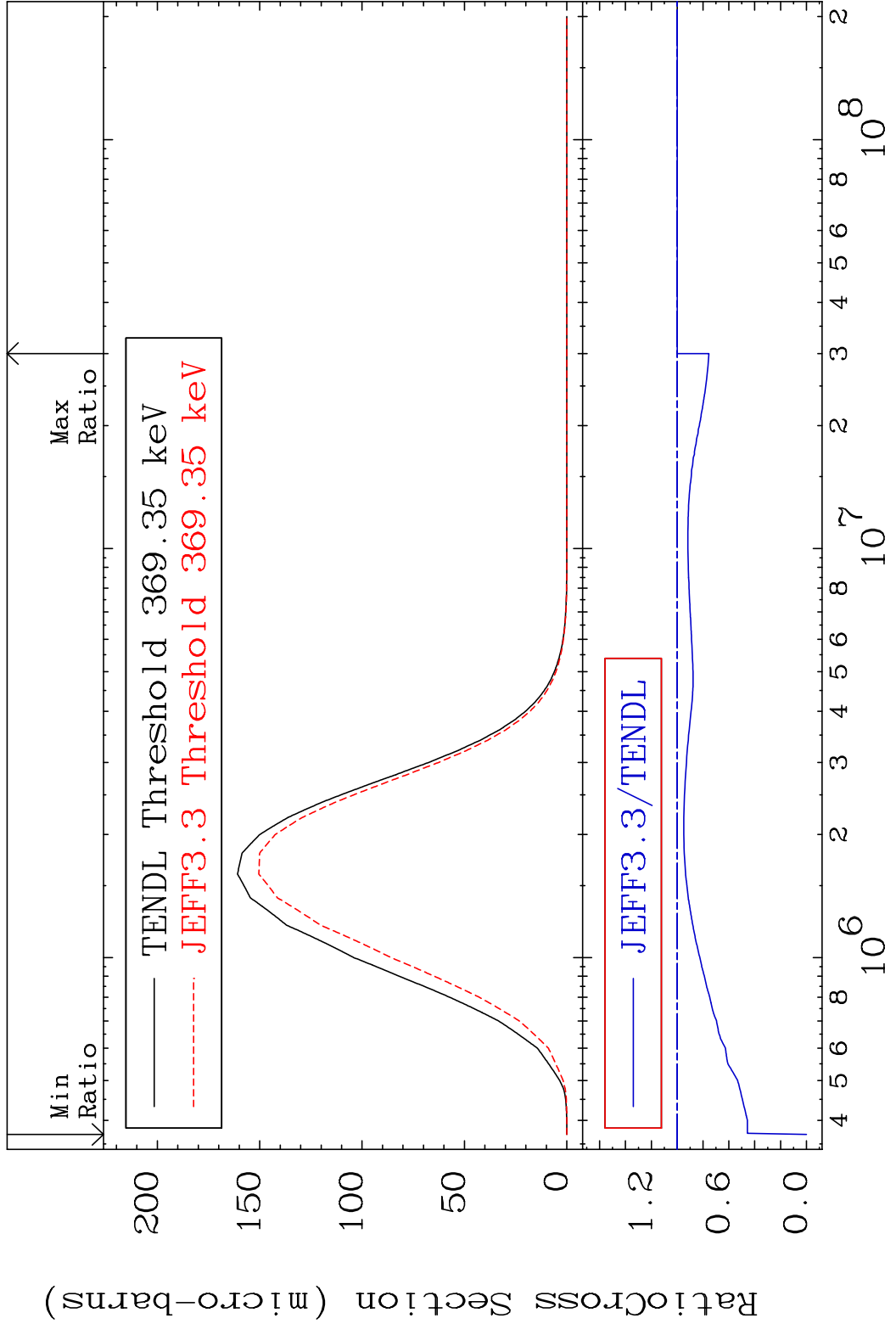
MAT 6729 MT= 64 (n,n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %



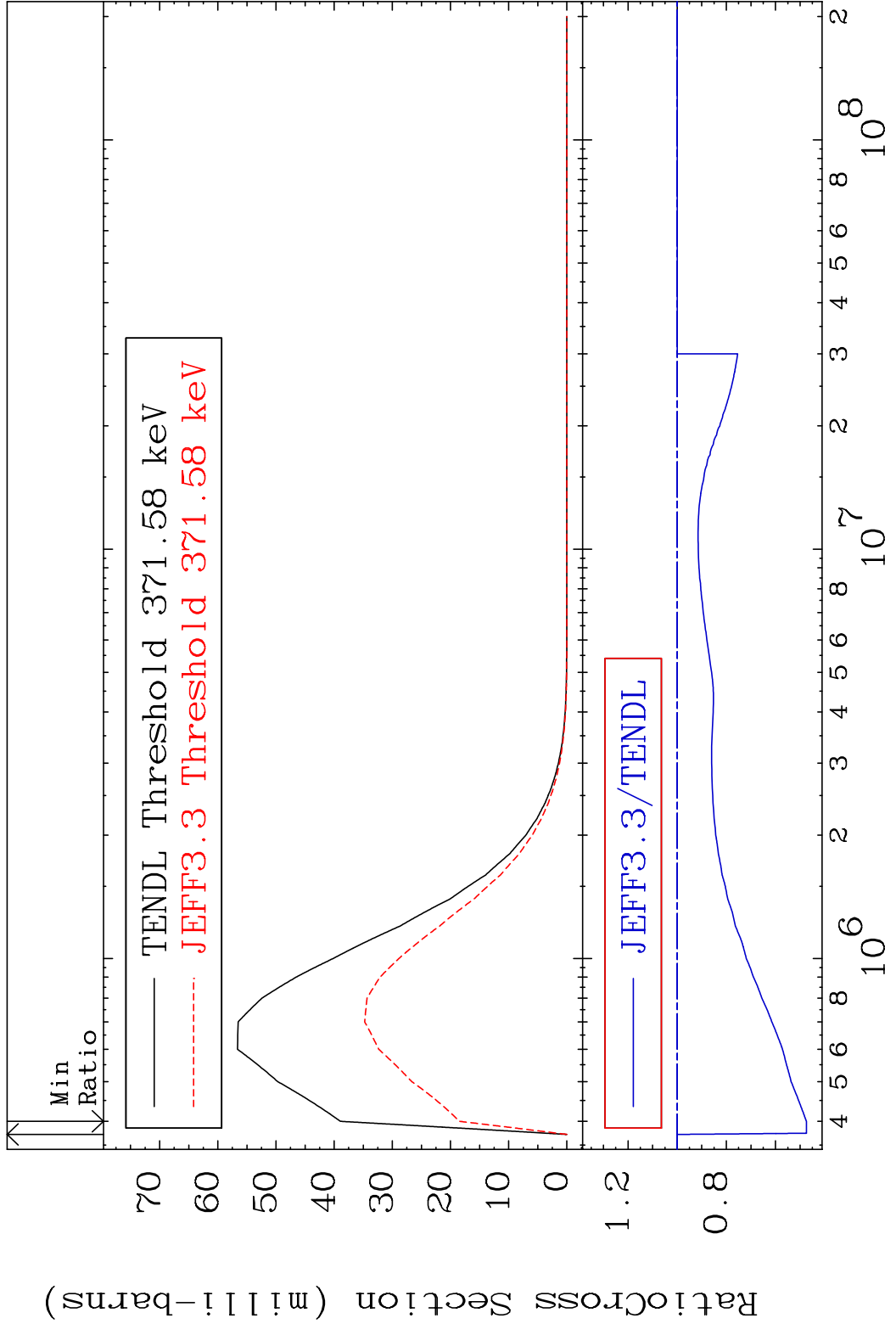
MAT 6729 MT= 65 (n,n') Level 67-Ho-166m
 Cross Section -51.60 To 0.000 %



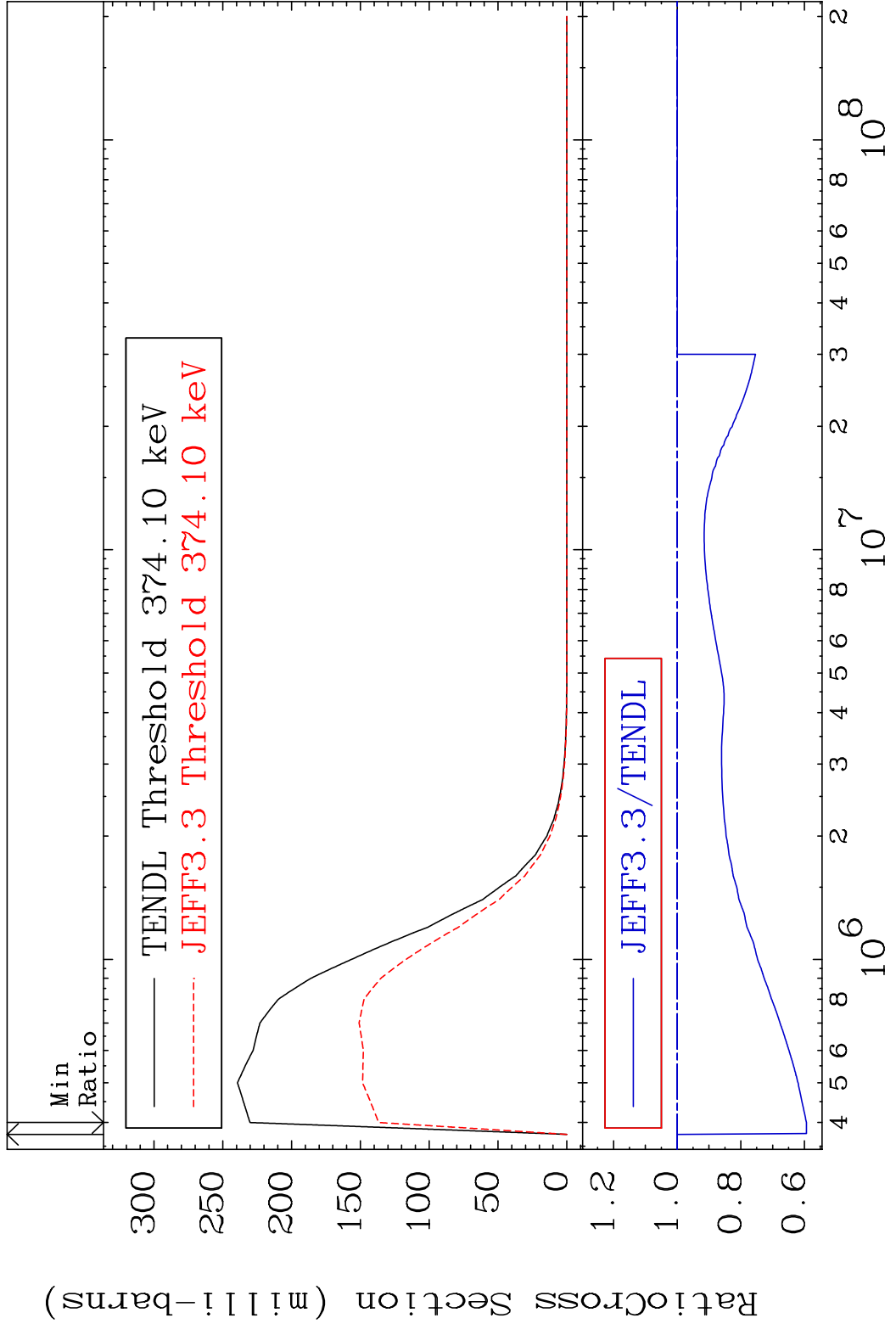
MAT 6729 MT= 66 (n, n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %



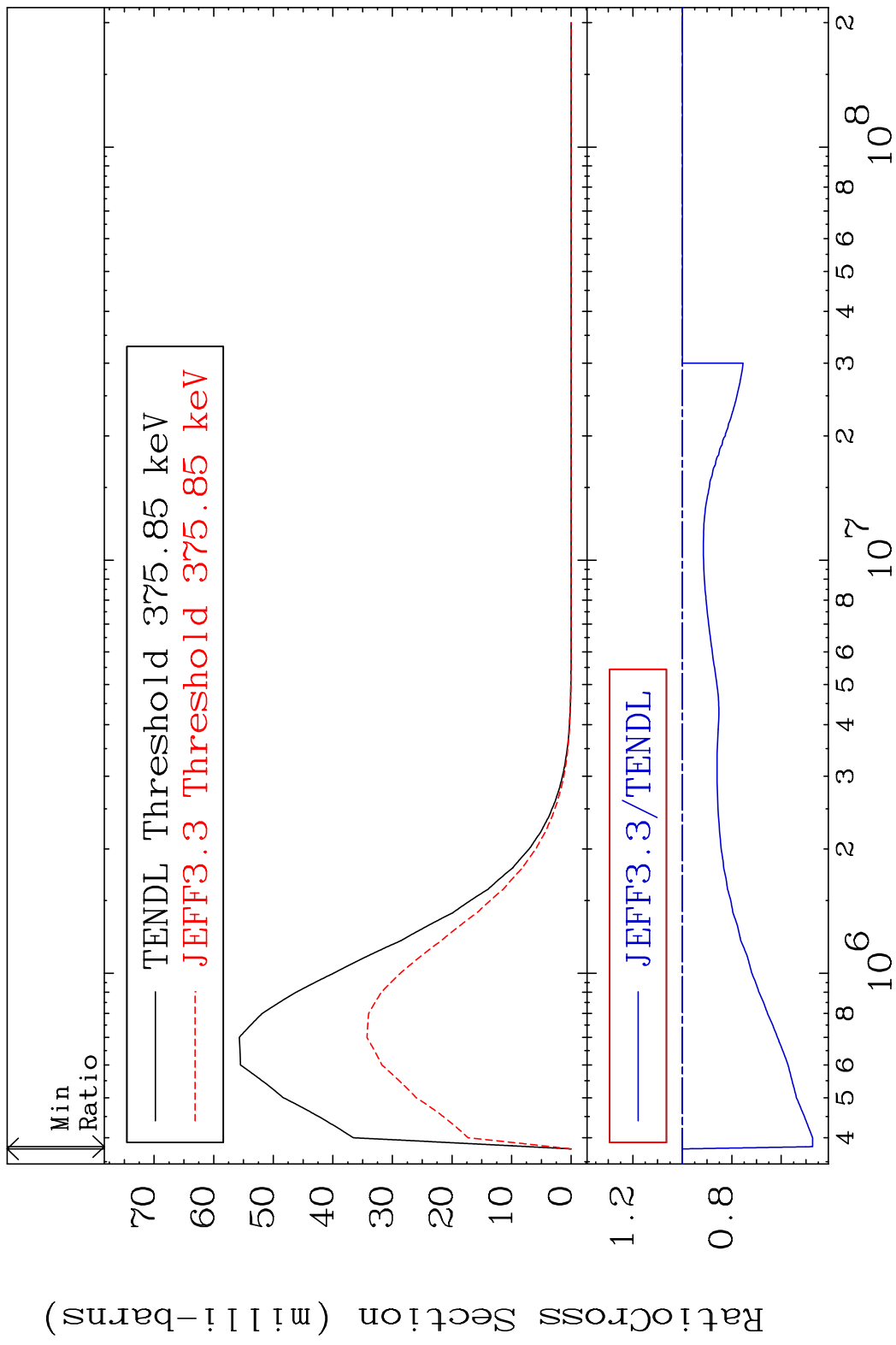
MAT 6729 MT= 67 (n,n') Level 67-Ho-166m
 Cross Section -52.56 To 0.000 %



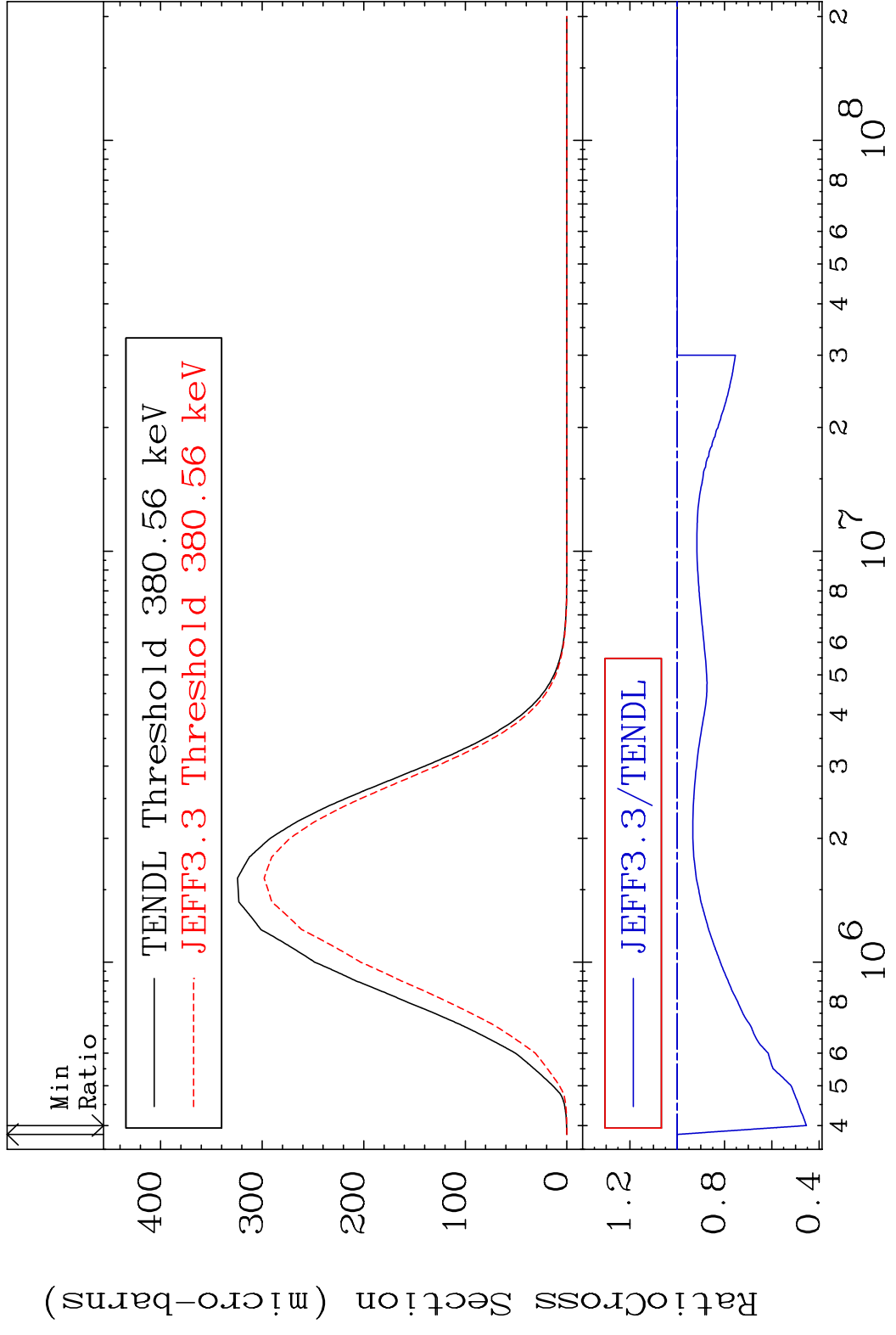
MAT 6729 MT= 68 (n,n') Level 67-Ho-166m
 Cross Section -40.62 To 0.000 %



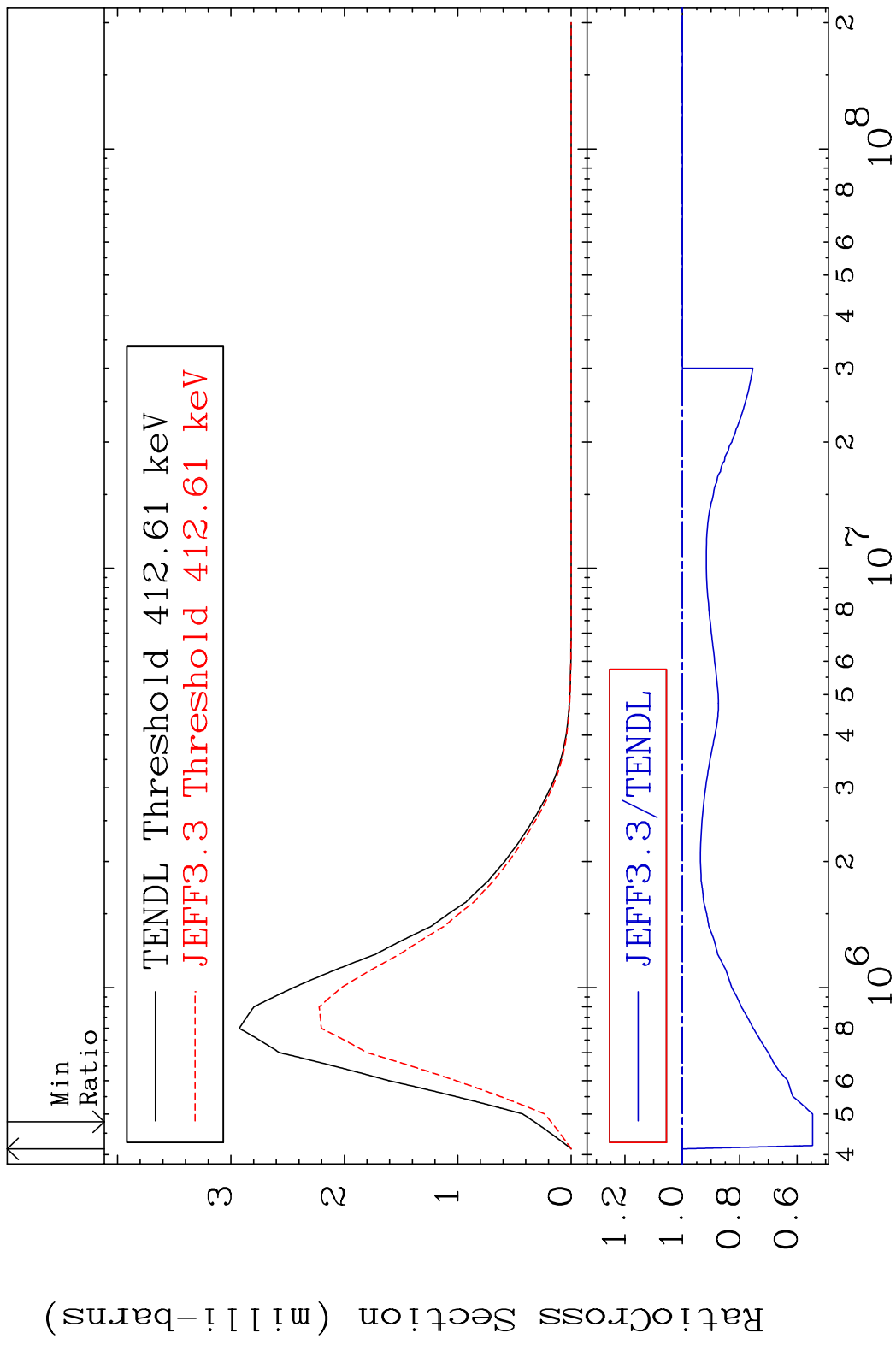
MAT 6729 MT= 69 (n,n') Level 67-Ho-166m
 Cross Section -52.66 To 0.000 %



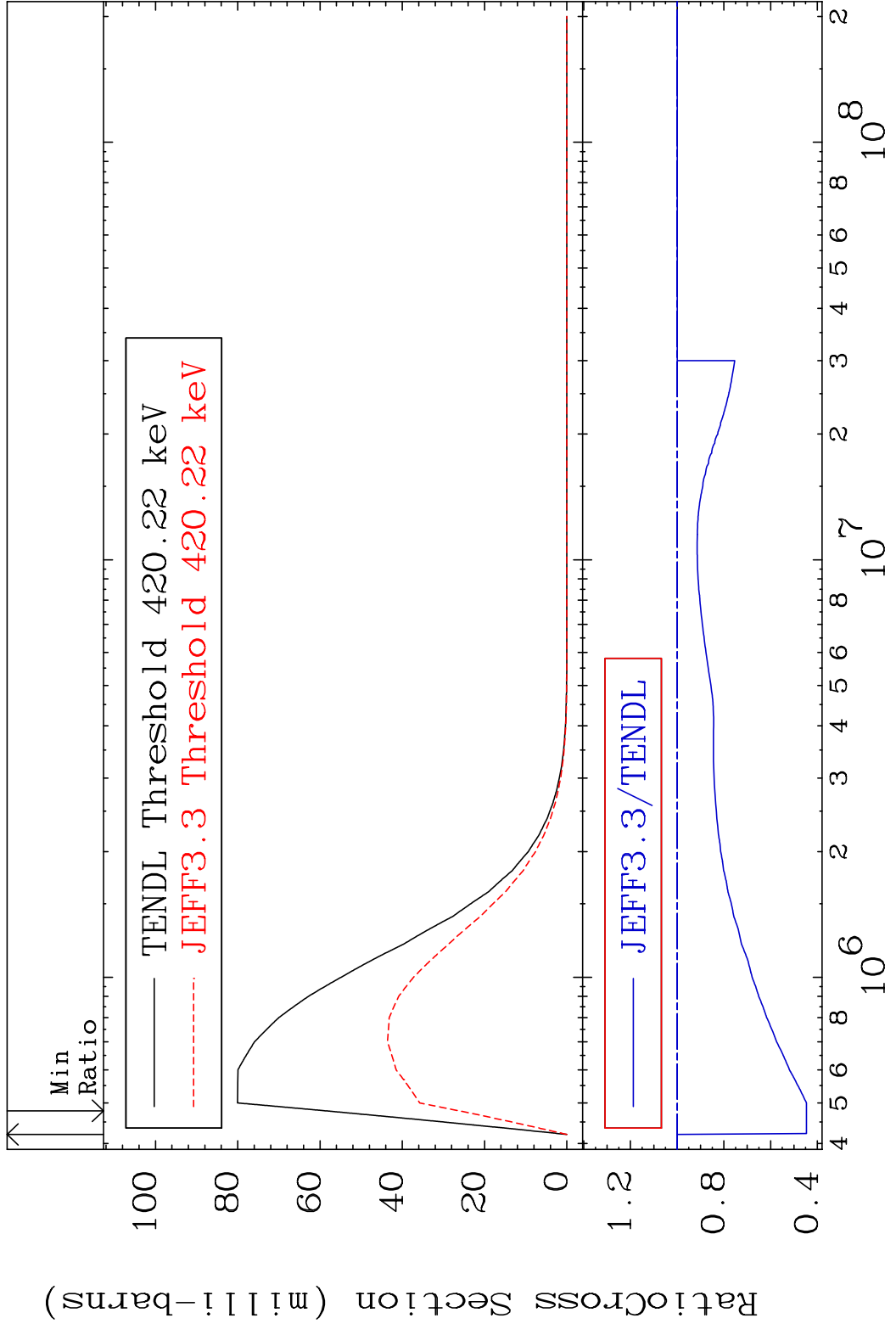
MAT 6729 MT= 70 (n,n') Level 67-Ho-166m
 Cross Section -54.61 To 0.000 %



MAT 6729 MT= 71 (n,n') Level 67-Ho-166m
 Cross Section -45.43 To 0.000 %

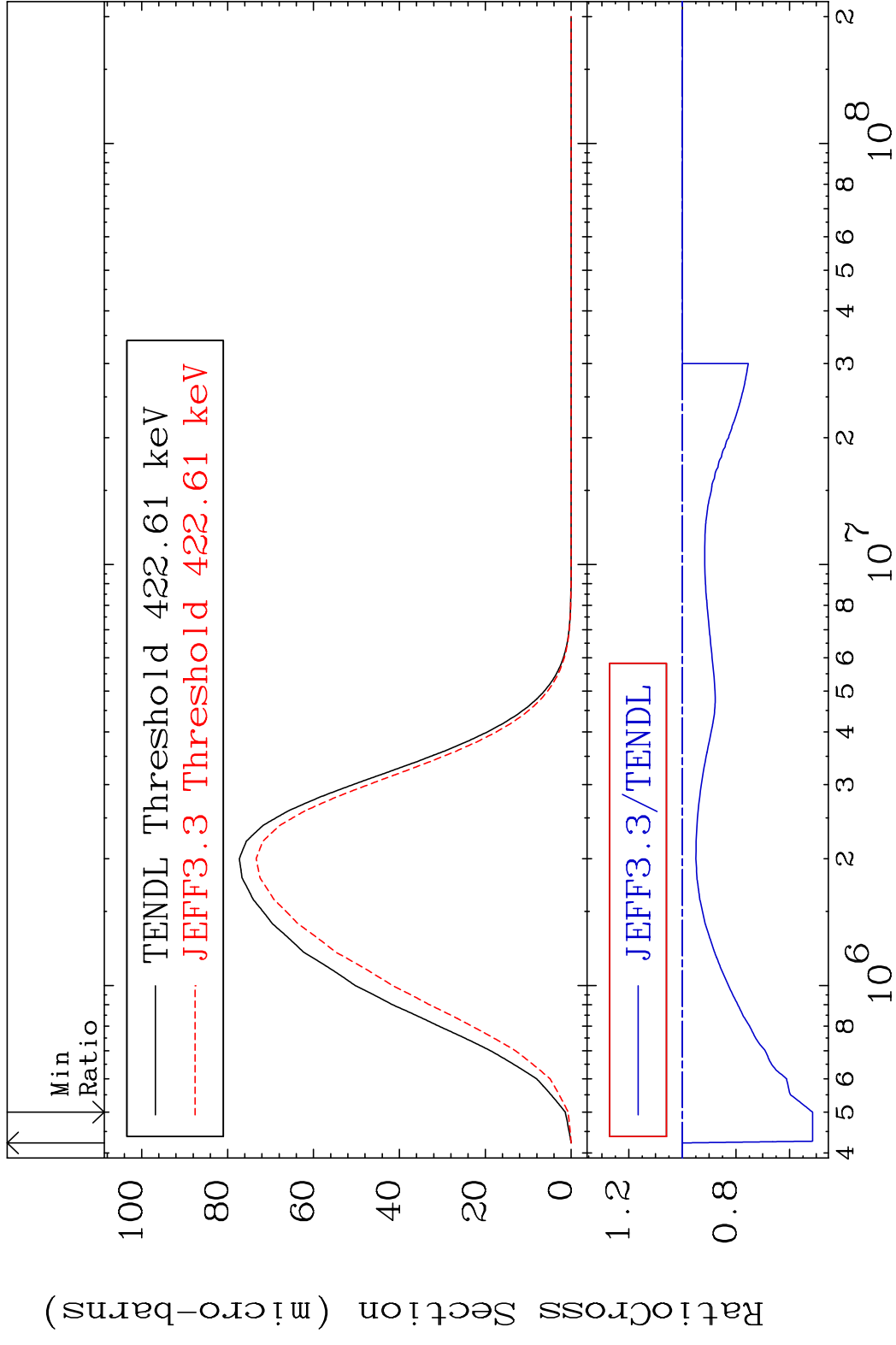


MAT 6729 MT= 72 (n,n') Level 67-Ho-166m
 Cross Section -55.34 To 0.000 %

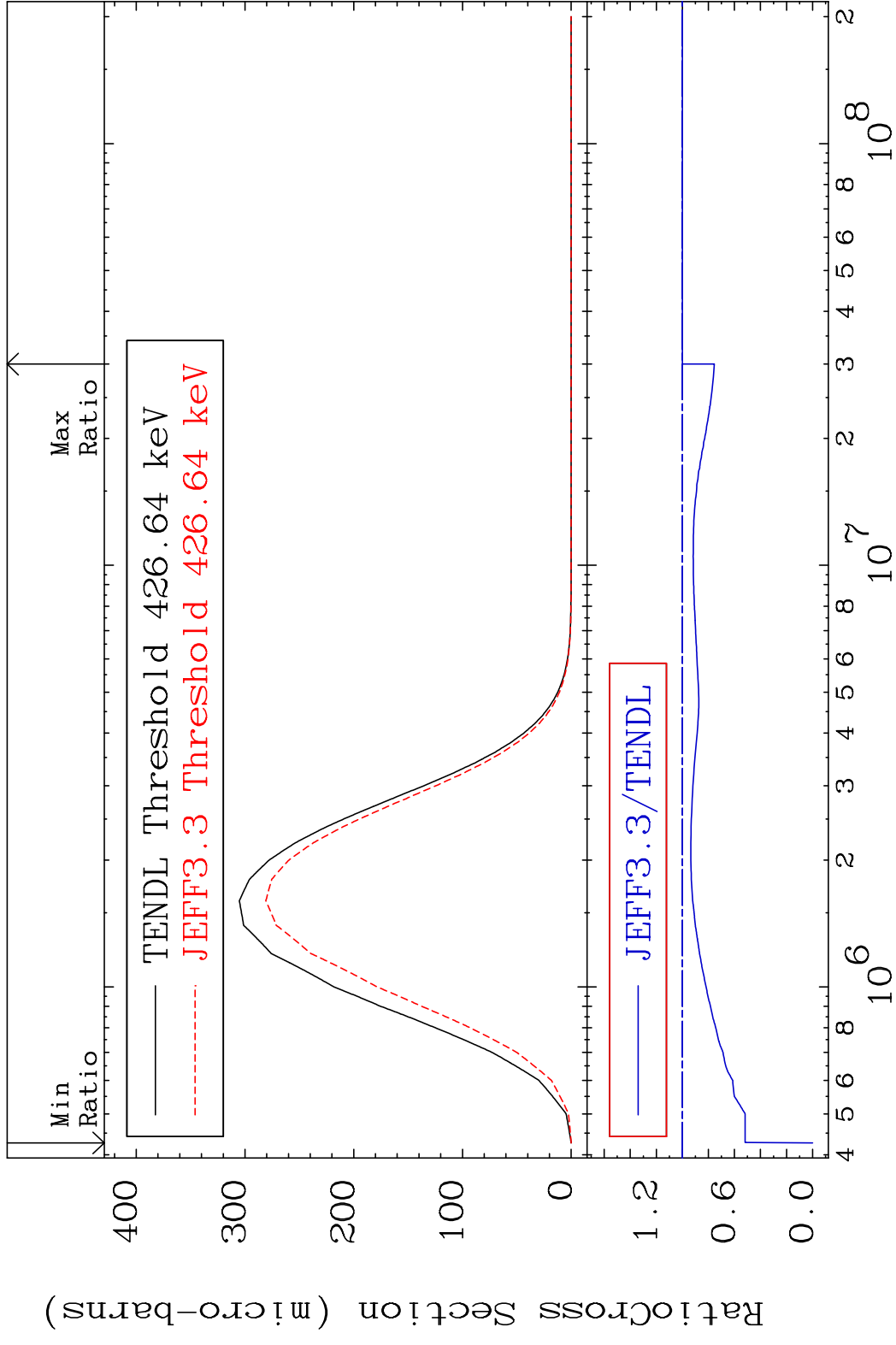


40 Incident Energy (eV) 67-Ho-166m

MAT 6729 MT= 73 (n, n') Level 67-Ho-166m
 Cross Section -48.60 To 0.000 %

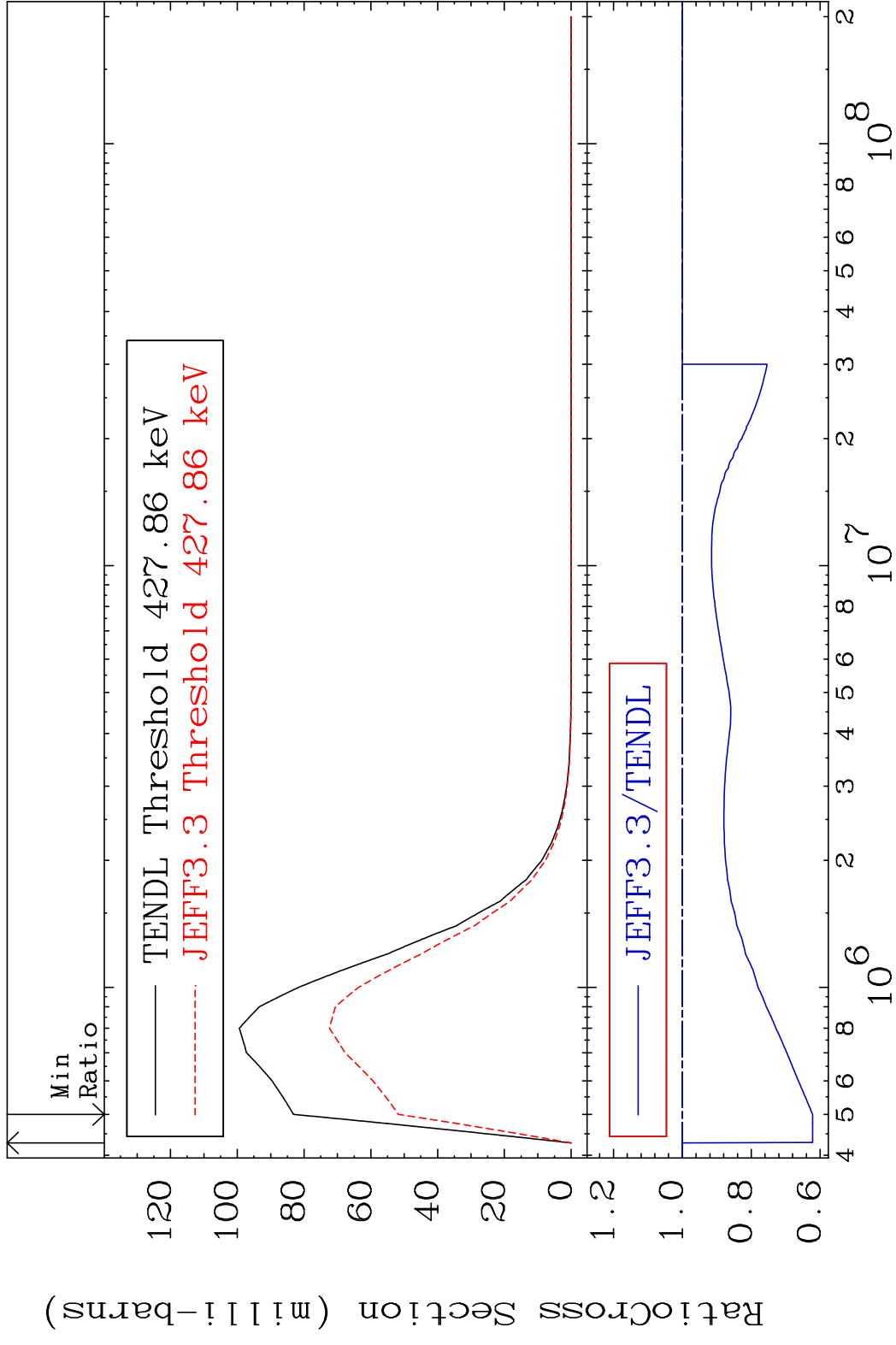


MAT 6729 MT= 74 (n,n') Level 67-Ho-166m
 Cross Section -100.0 To 0.000 %

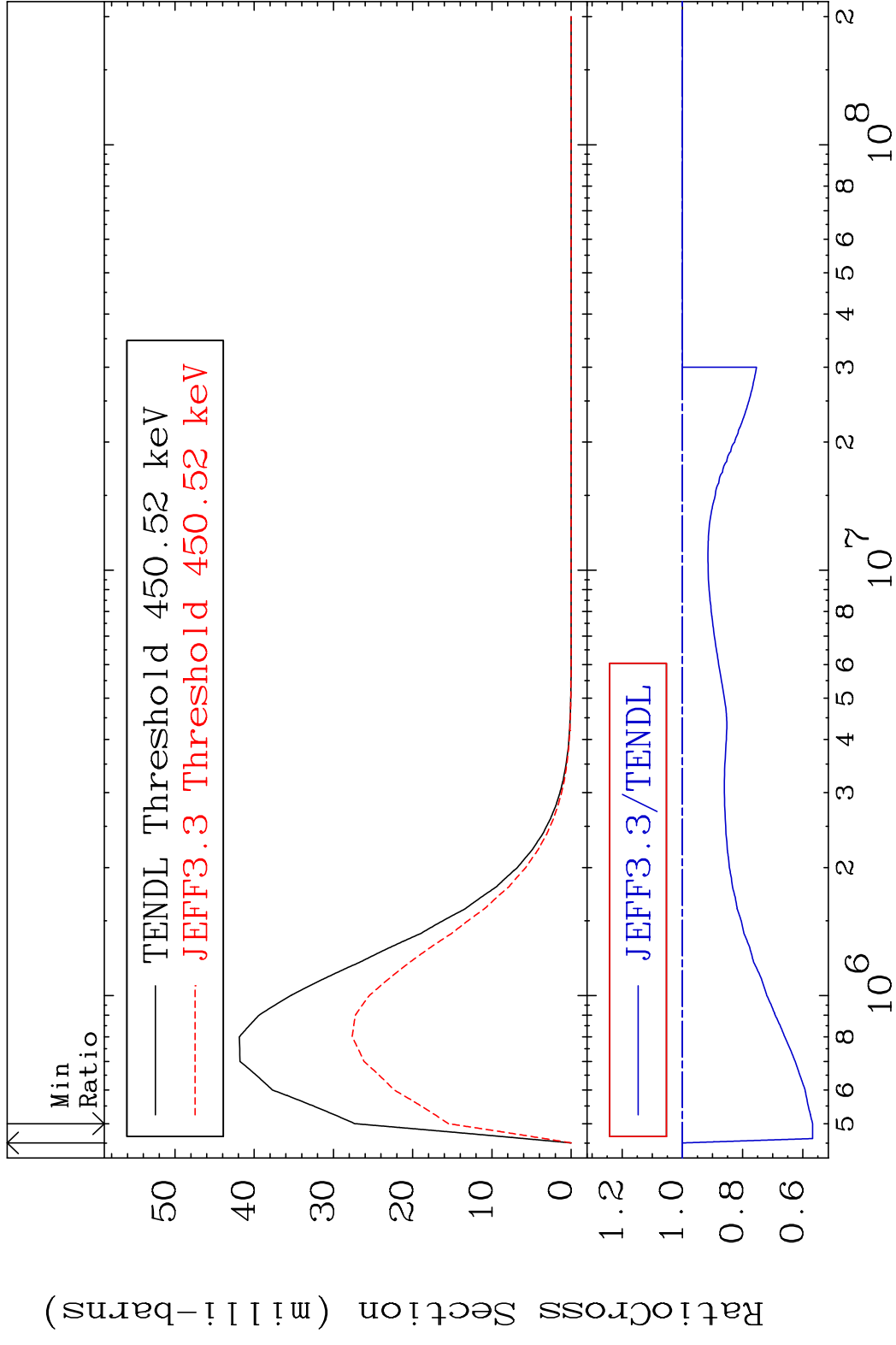


42 Incident Energy (eV) 67-Ho-166m

MAT 6729 MT= 75 (n,n') Level 67-Ho-166m
 Cross Section -37.79 To 0.000 %



MAT 6729 MT= 76 (n,n') Level 67-Ho-166m
 Cross Section -43.22 To 0.000 %

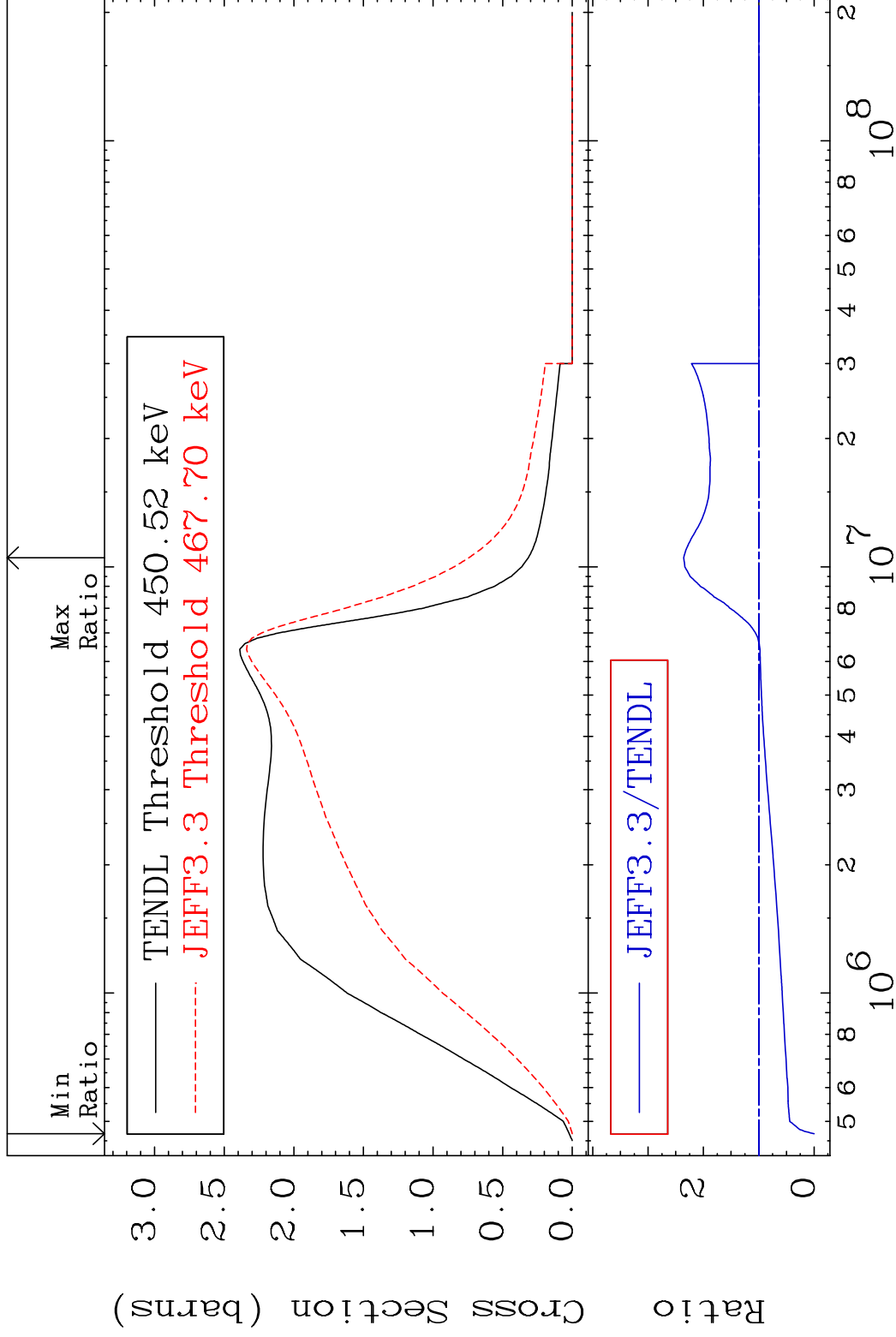


MAT 6729

(n, n') Continuum

67-Ho-166m

Cross Section -100.0 To 135.7 %



45

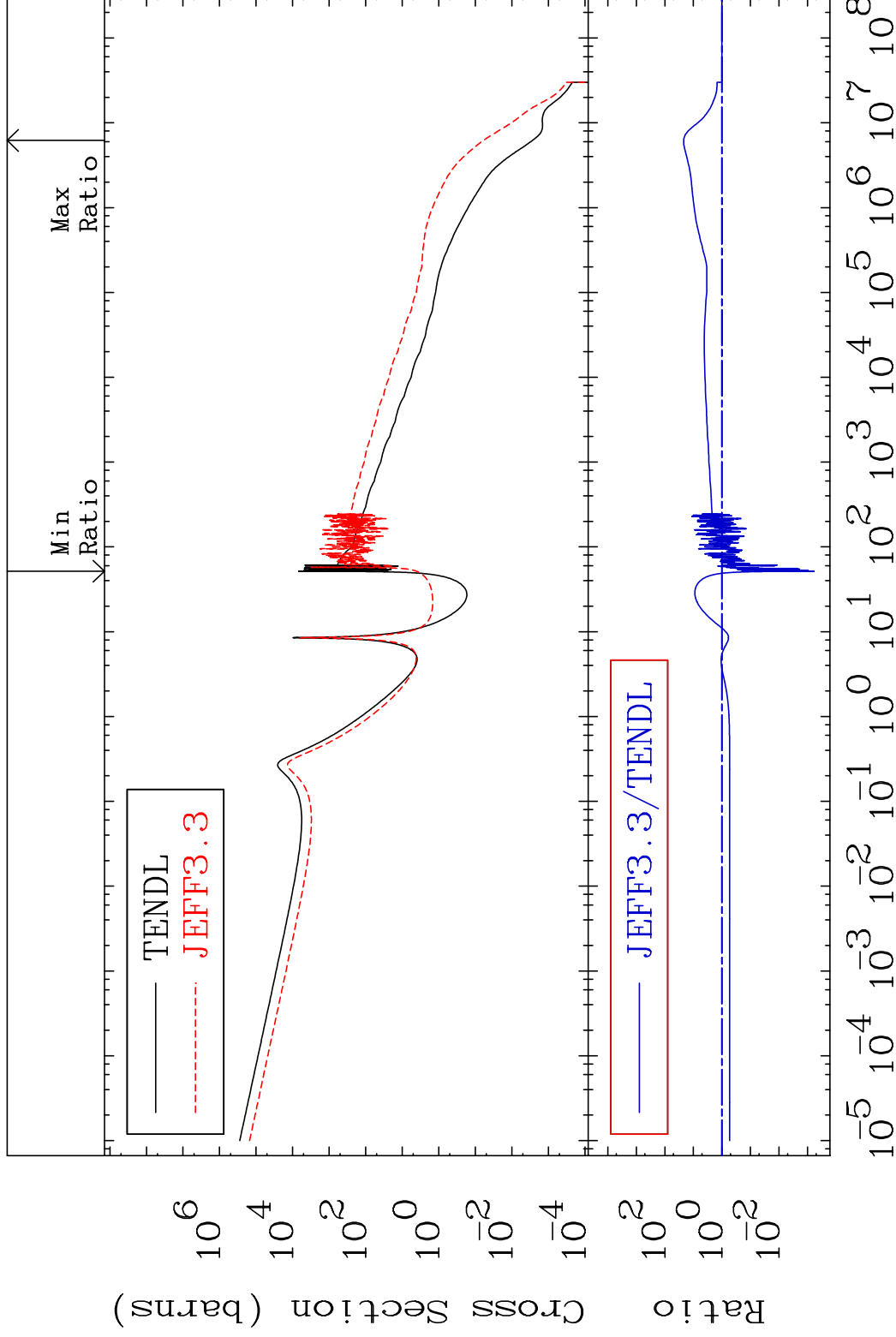
Incident Energy (eV)

67-Ho-166m

MAT 6729

(n, γ)
Cross Section -99.94 To 2095. %

67-Ho-166m



46

Incident Energy (eV)

67-Ho-166m

MAT 6729

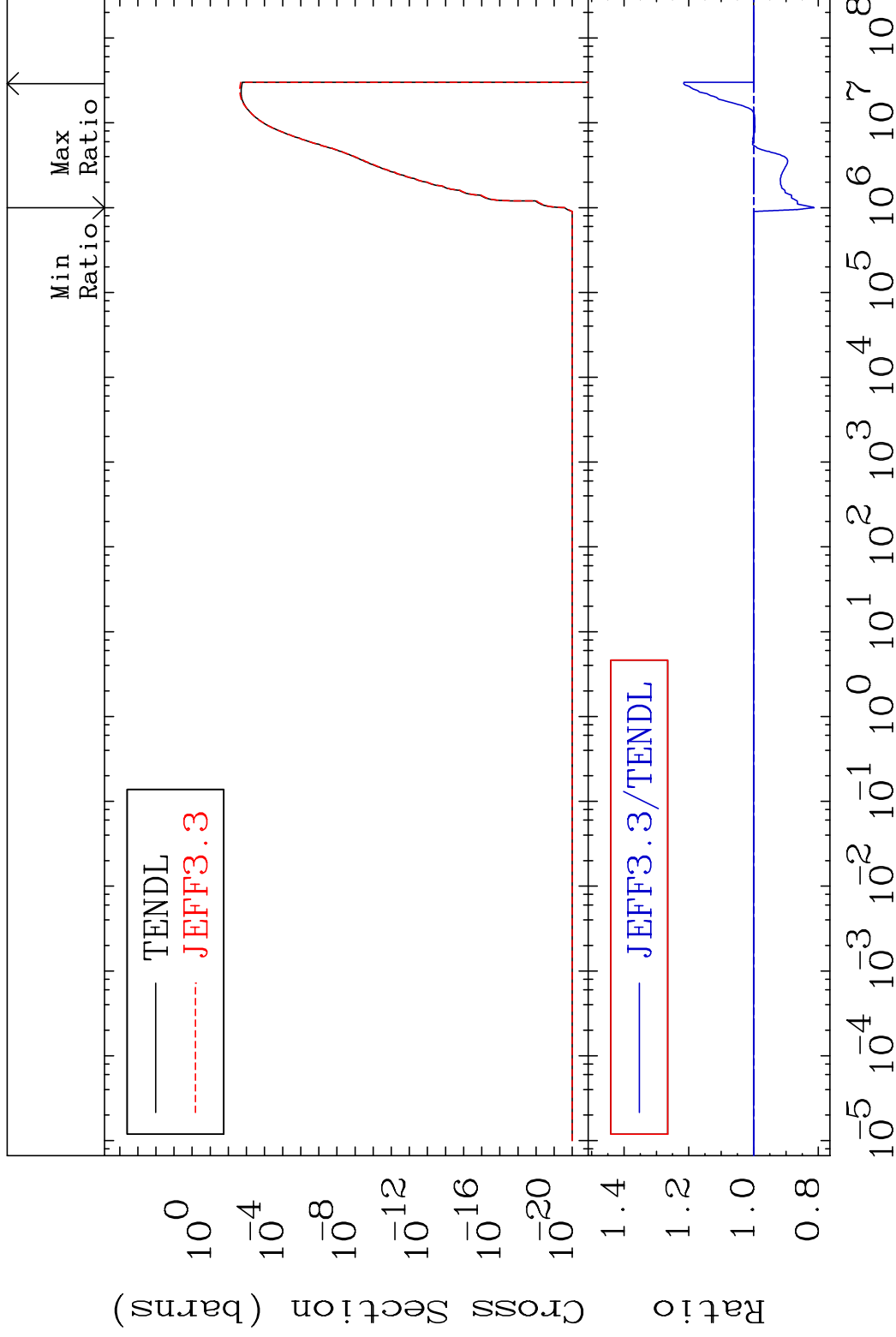
(n, p)

67-Ho-166m

Cross Section

-18.68

To 21.59 %



47

Incident Energy (eV)

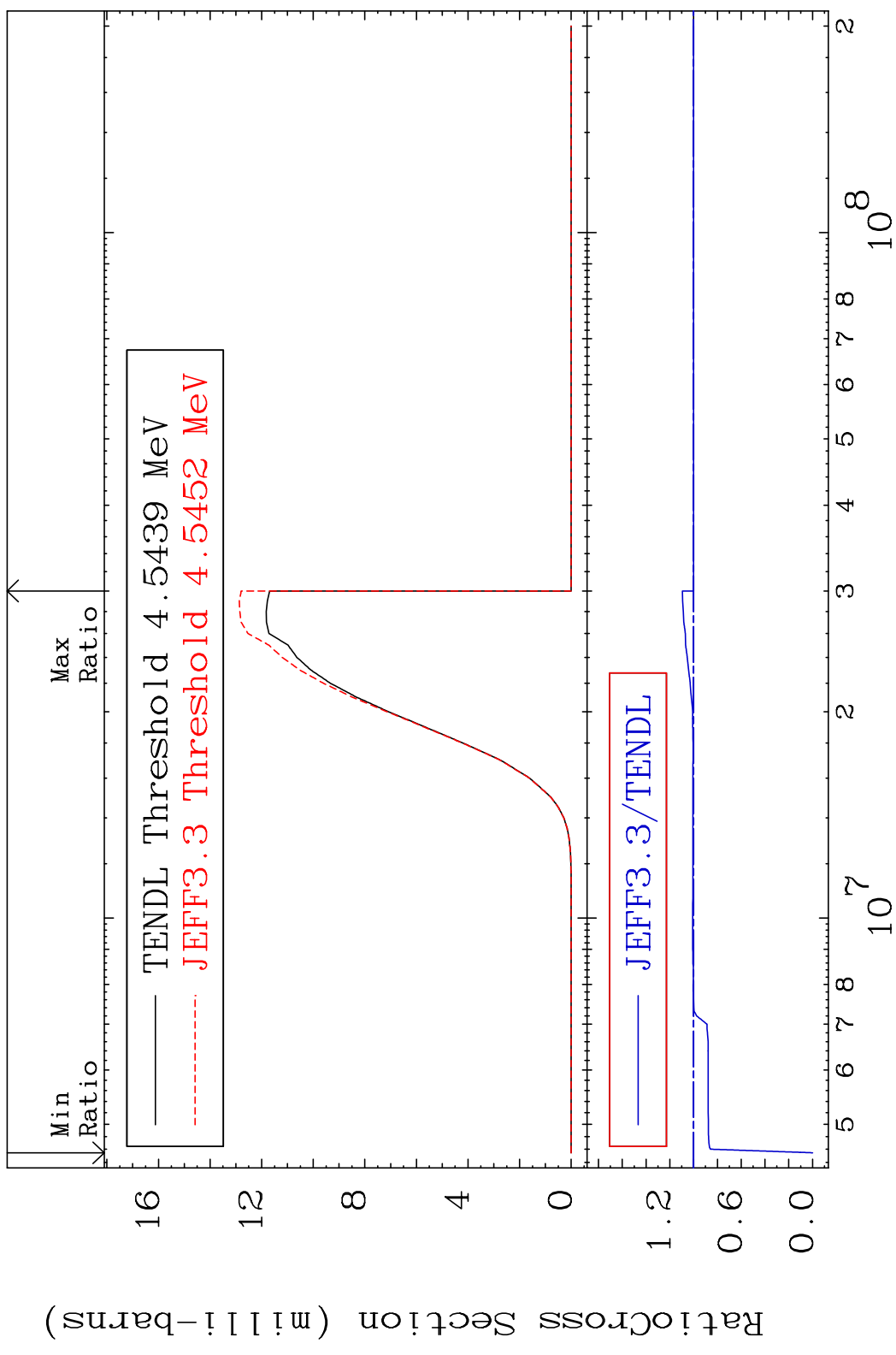
67-Ho-166m

MAT 6729

(n, d)

67-Ho-166m

Cross Section -100.0 To 9.479 %



48

Incident Energy (eV)

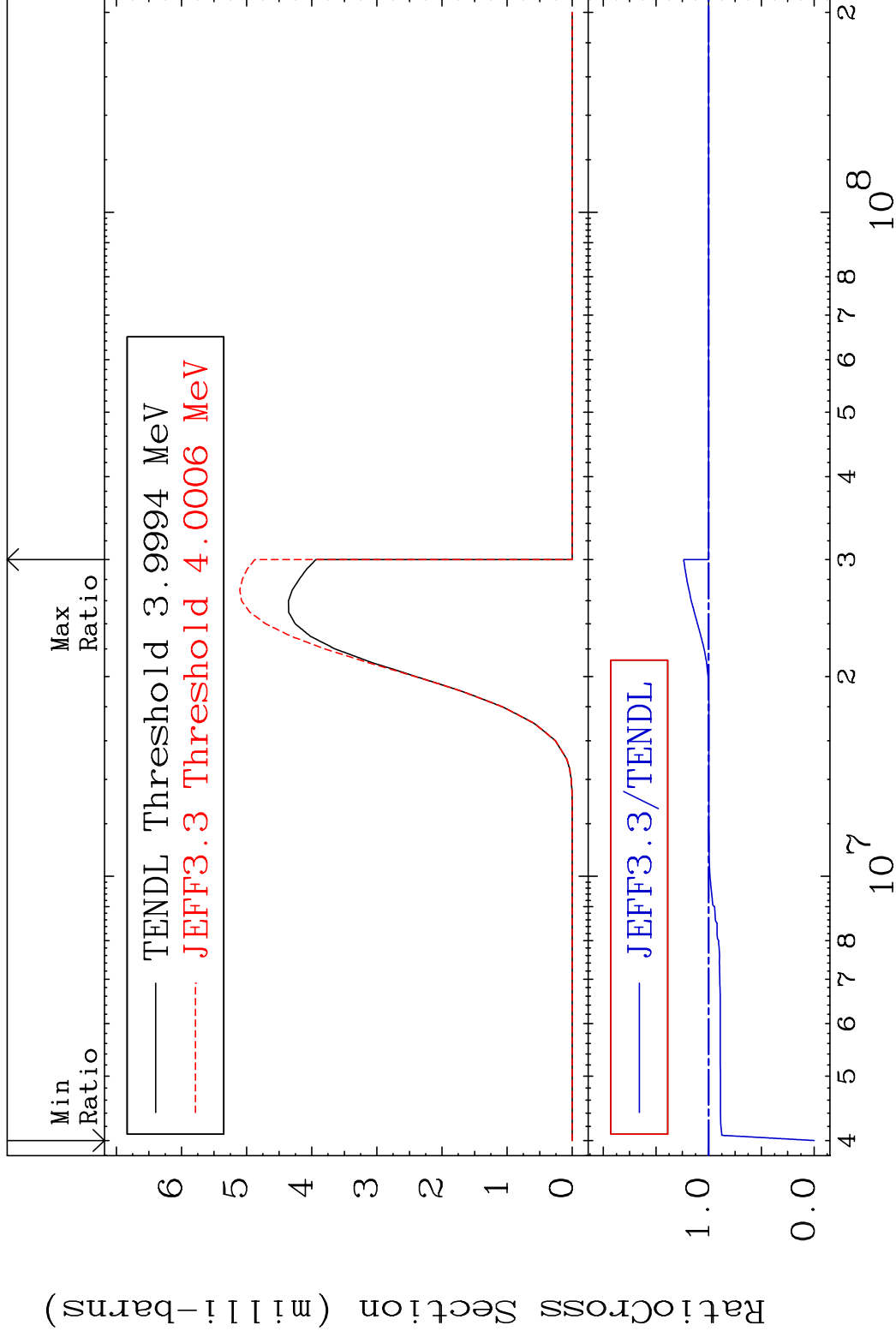
67-Ho-166m

MAT 6729

(n, t)

67-Ho-166m

Cross Section -100.0 To 23.76 %



49

Incident Energy (eV)

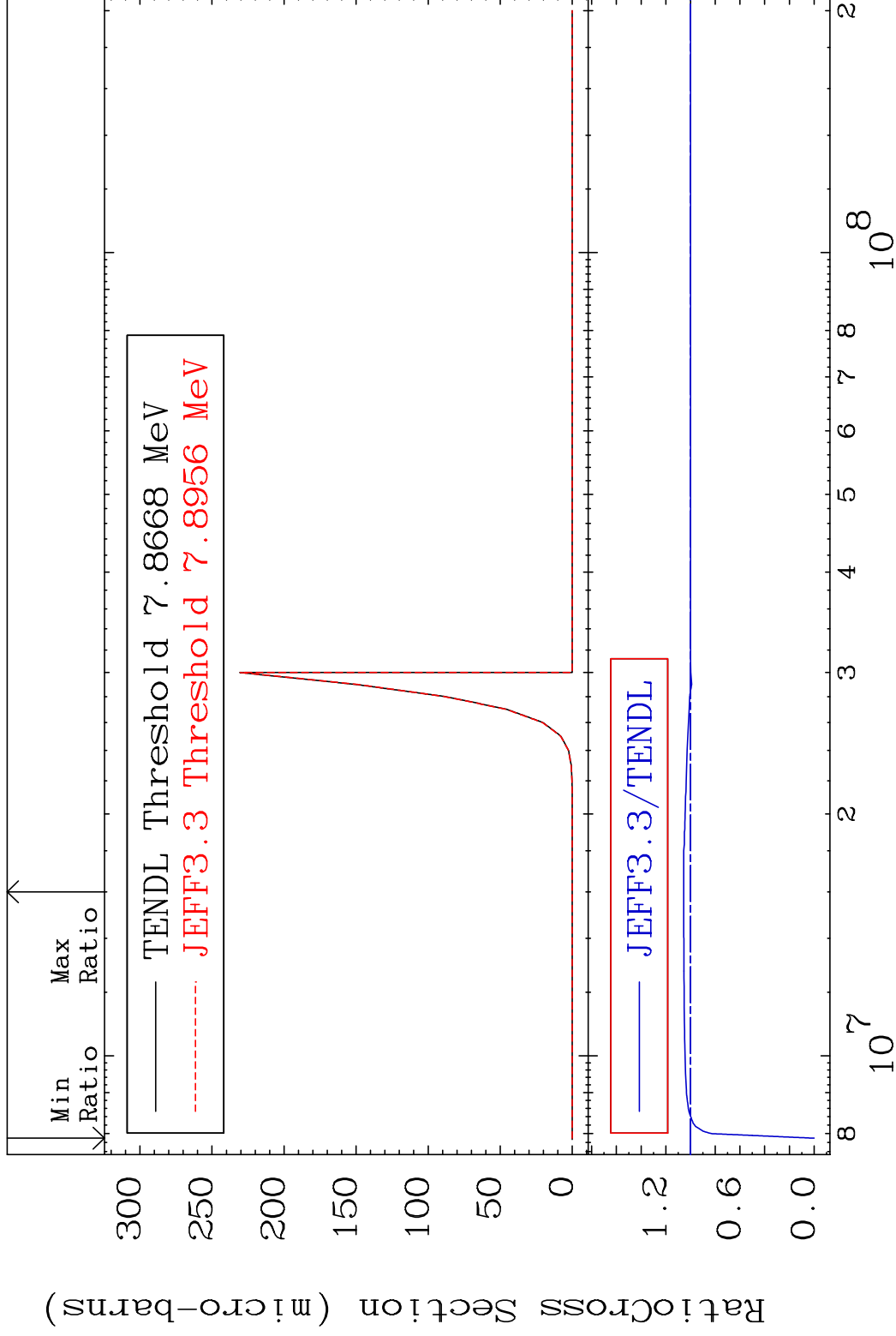
67-Ho-166m

MAT 6729

(n, He-3)

67-Ho-166m

Cross Section -100.0 To 5.564 %



50

Incident Energy (eV)

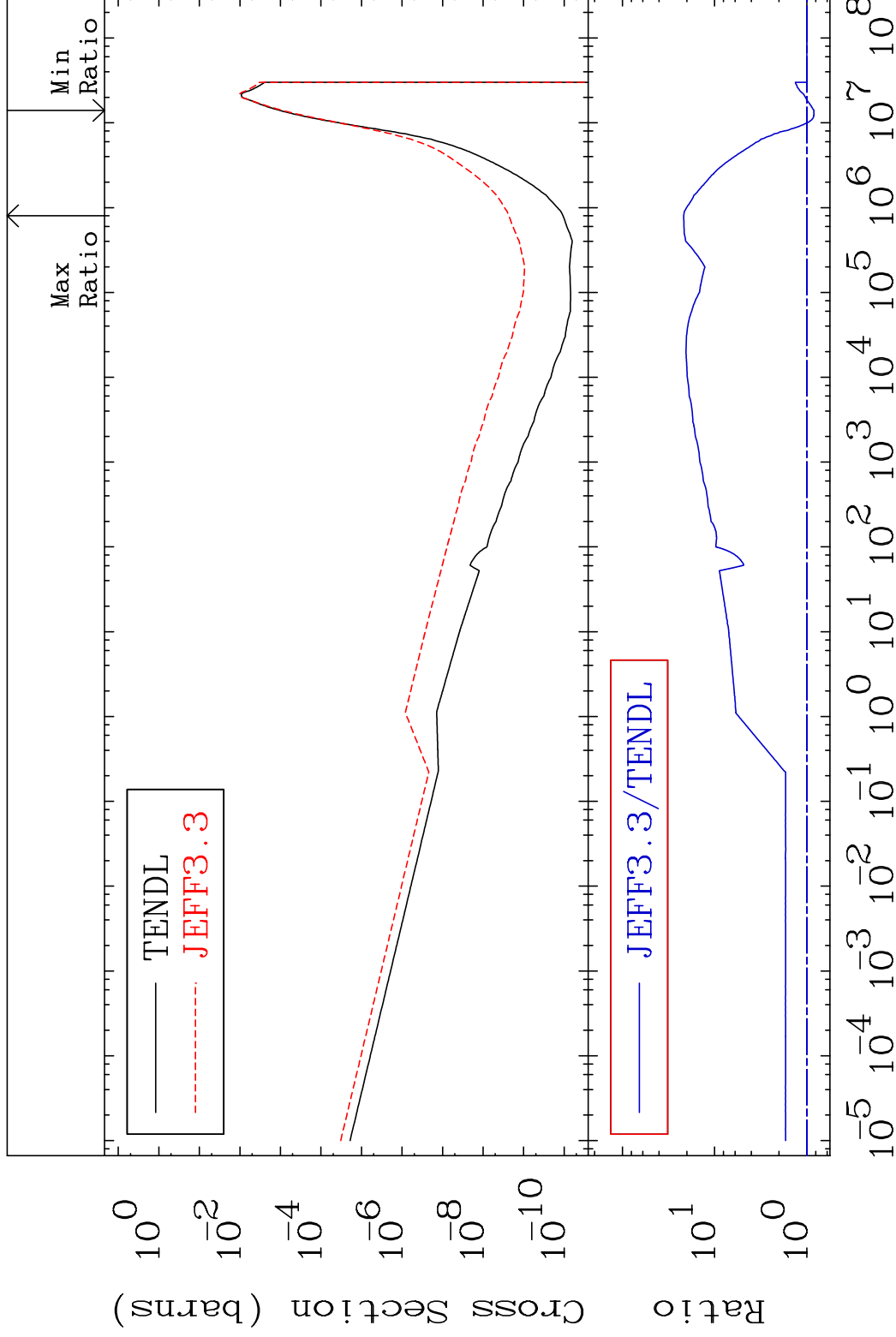
67-Ho-166m

MAT 6729

(n, α)

67-Ho-166m

Cross Section -16.69 To 2066. %



51

Incident Energy (eV)

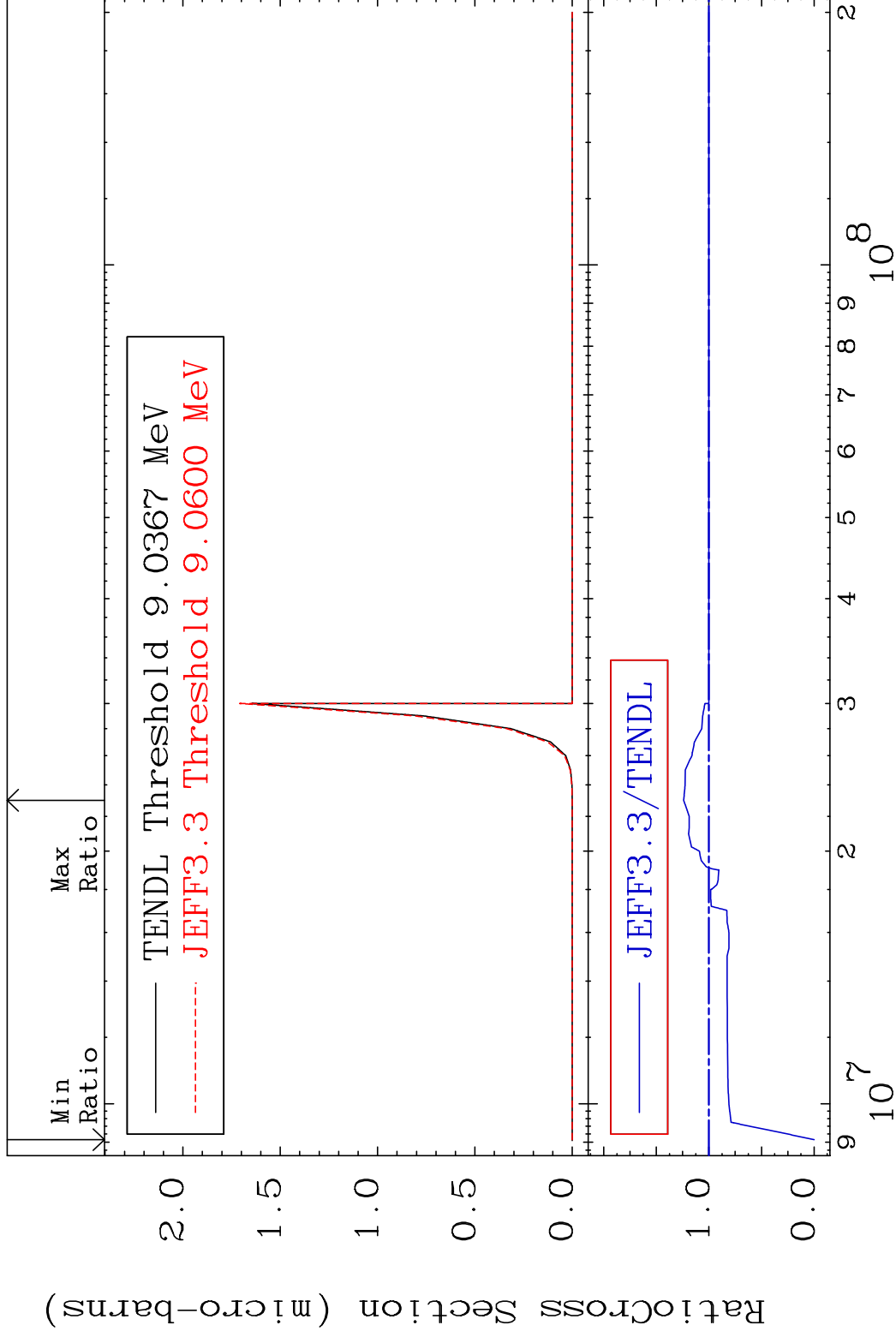
67-Ho-166m

MAT 6729

(n,2p)

67-Ho-166m

Cross Section -100.0 To 24.01 %

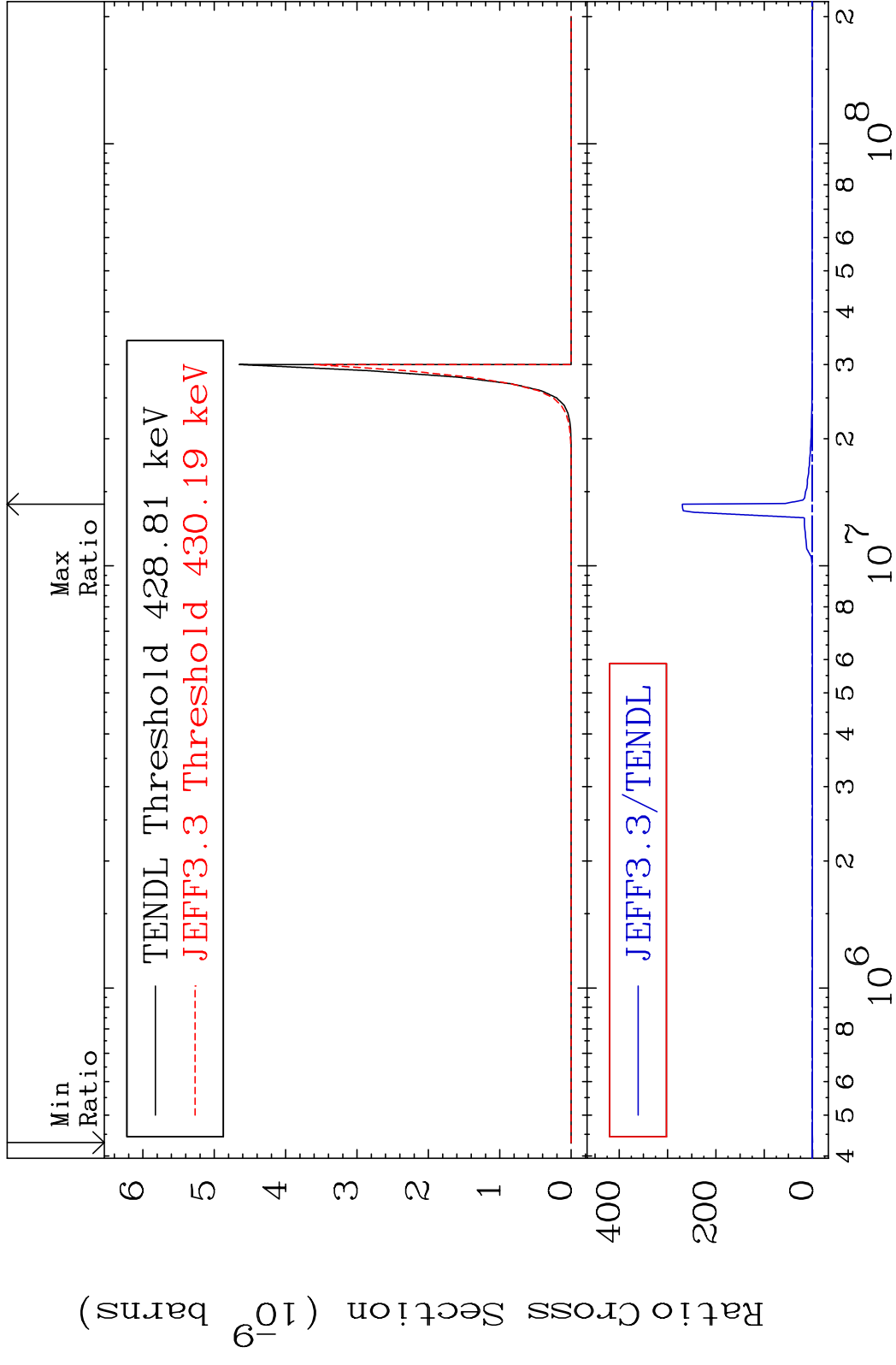


52

Incident Energy (eV)

67-Ho-166m

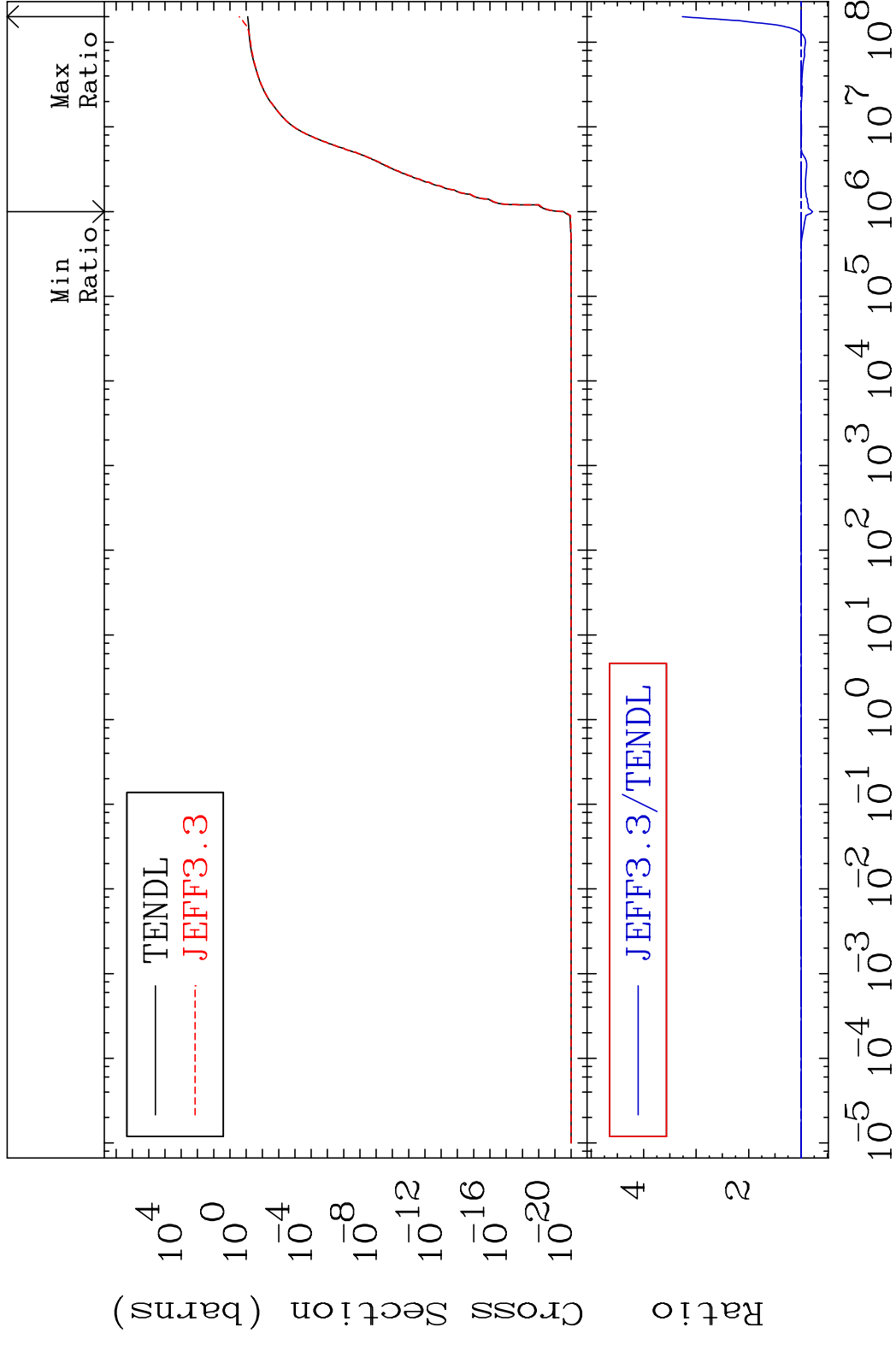
MAT 6729 (n,p) α 67-Ho-166m
 Cross Section -100.0 To 9999. %



MAT 6729

Hydrogen Production
Cross Section

67-Ho-166m
-21.76 To 226.3 %

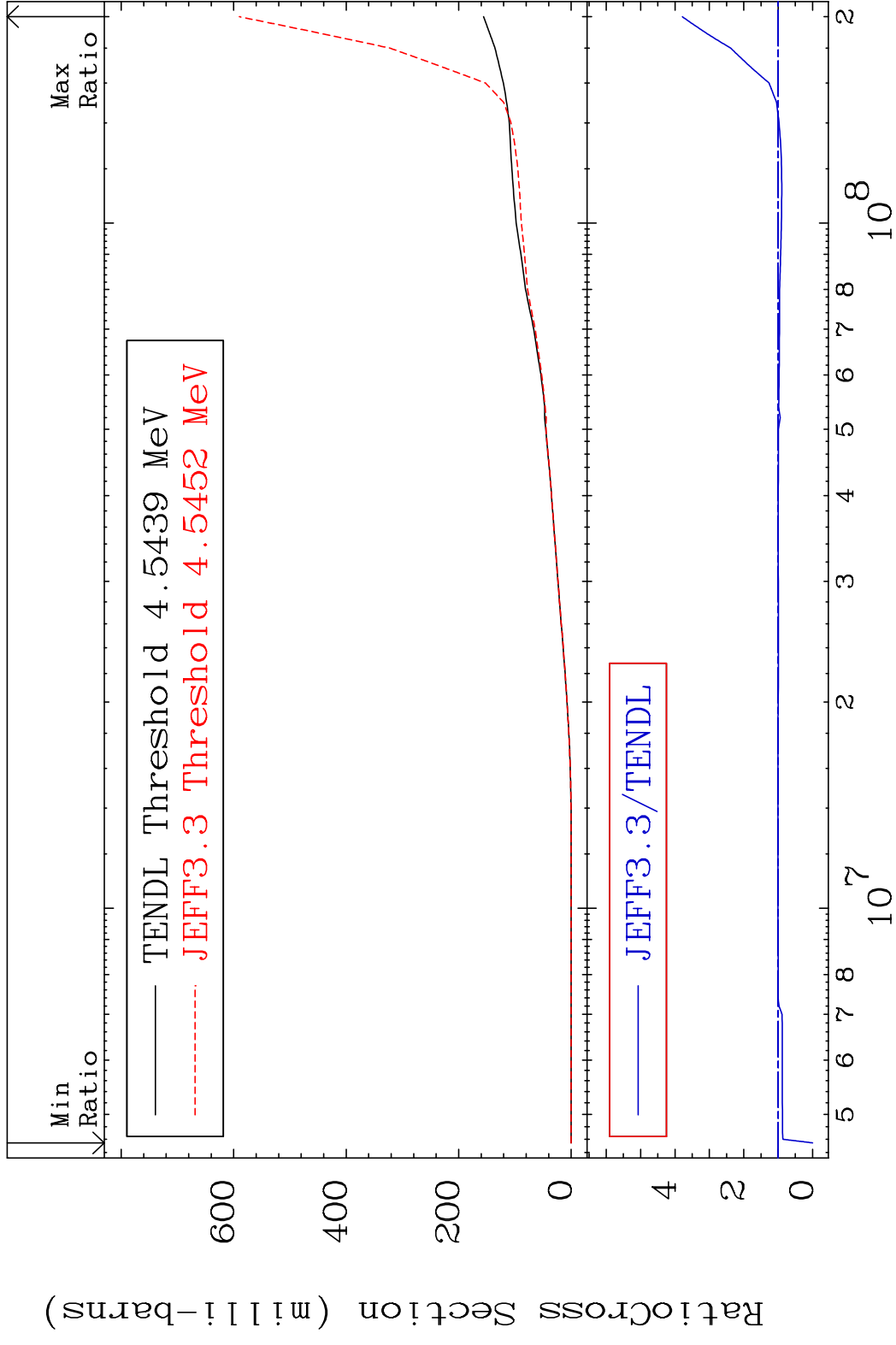


MAT 6729

Deuterium Production

67-Ho-166m

Cross Section -100.0 To 278.6 %



55

Incident Energy (eV)

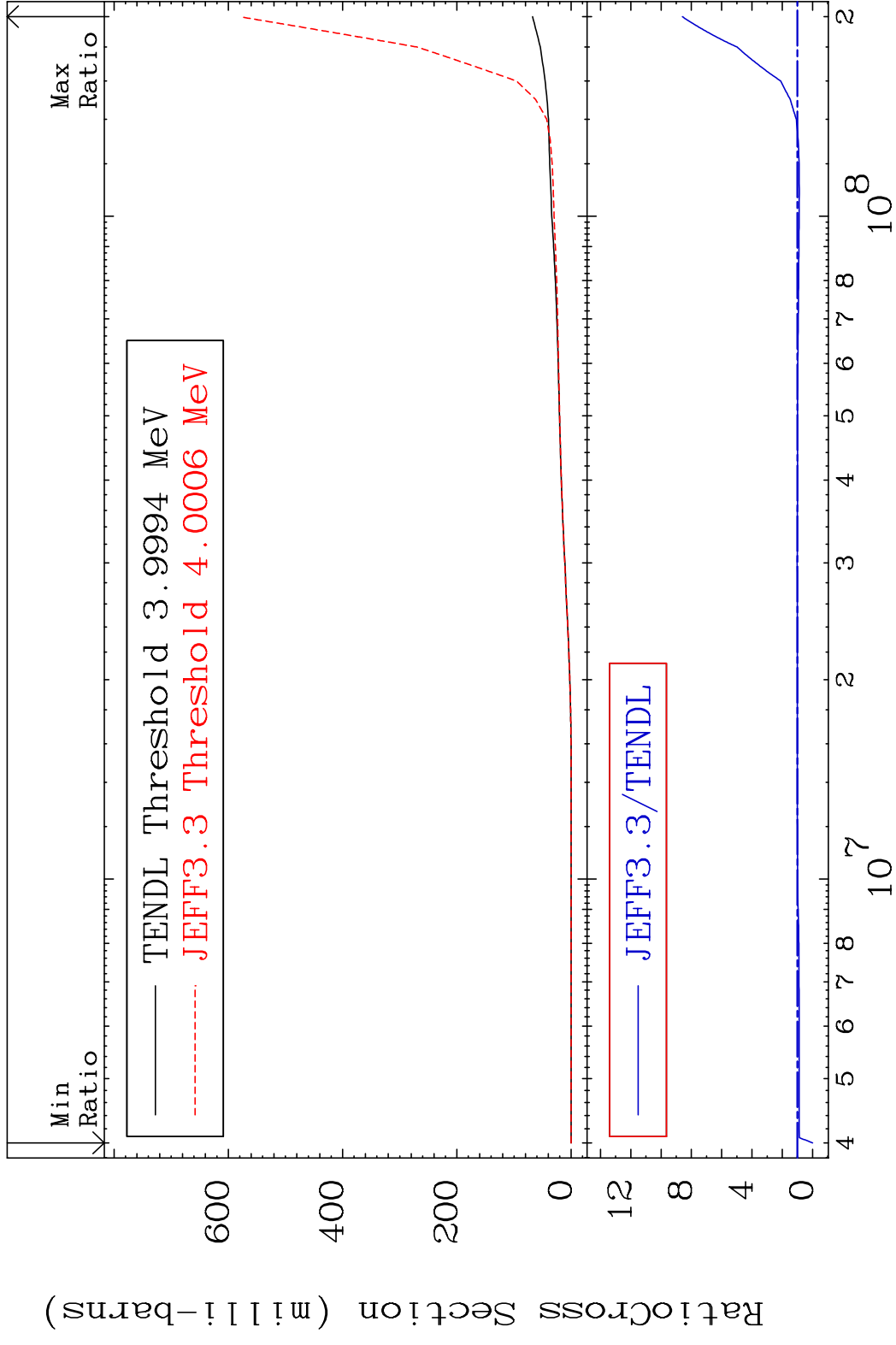
67-Ho-166m

MAT 6729

Tritium Production

67-Ho-166m

Cross Section -100.0 To 759.7 %

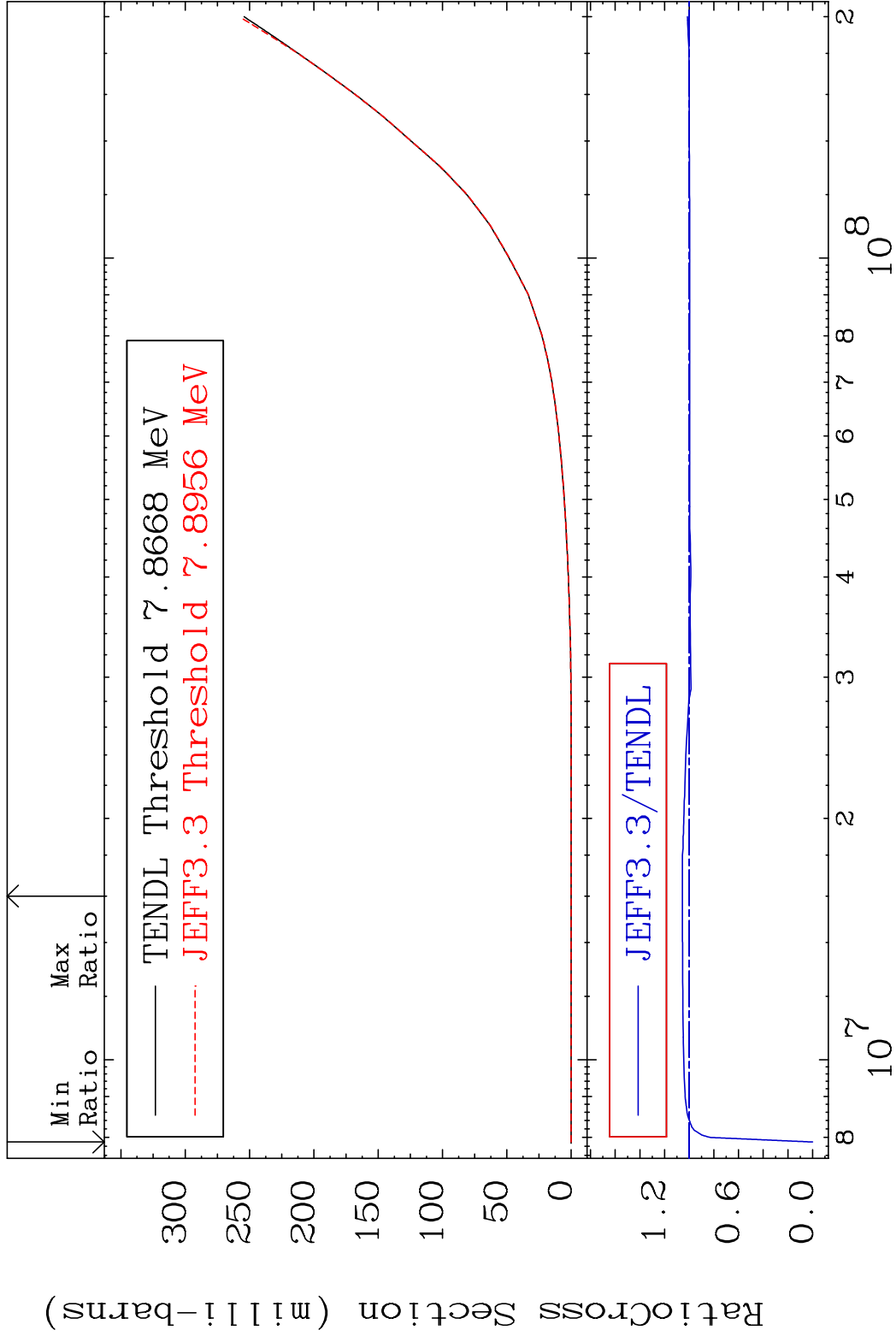


MAT 6729

He-3 Production

67-Ho-166m

Cross Section -100.0 To 5.565 %



57

Incident Energy (eV)

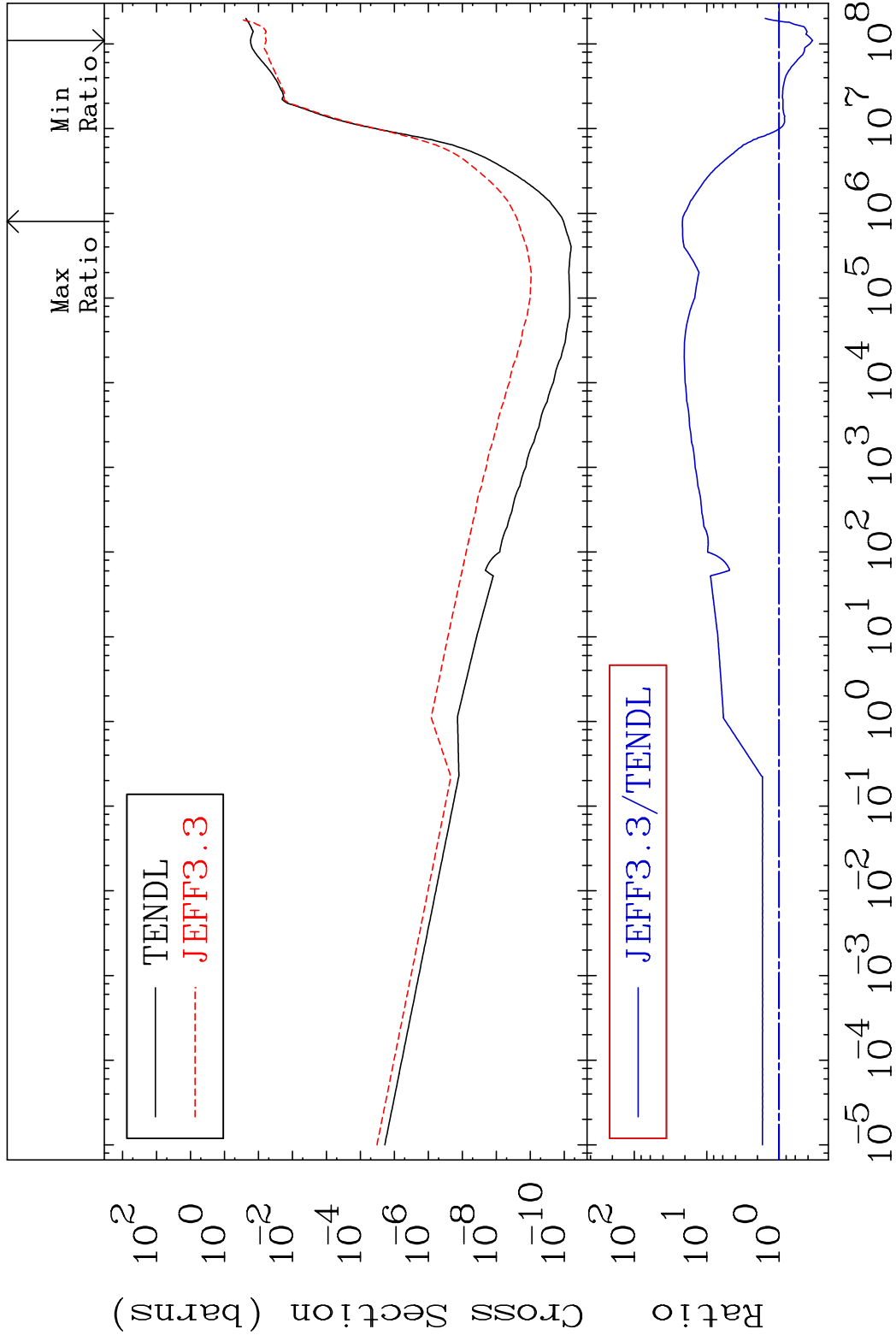
67-Ho-166m

MAT 6729

He-4 Production

67-Ho-166m

Cross Section -65.35 To 2066. %



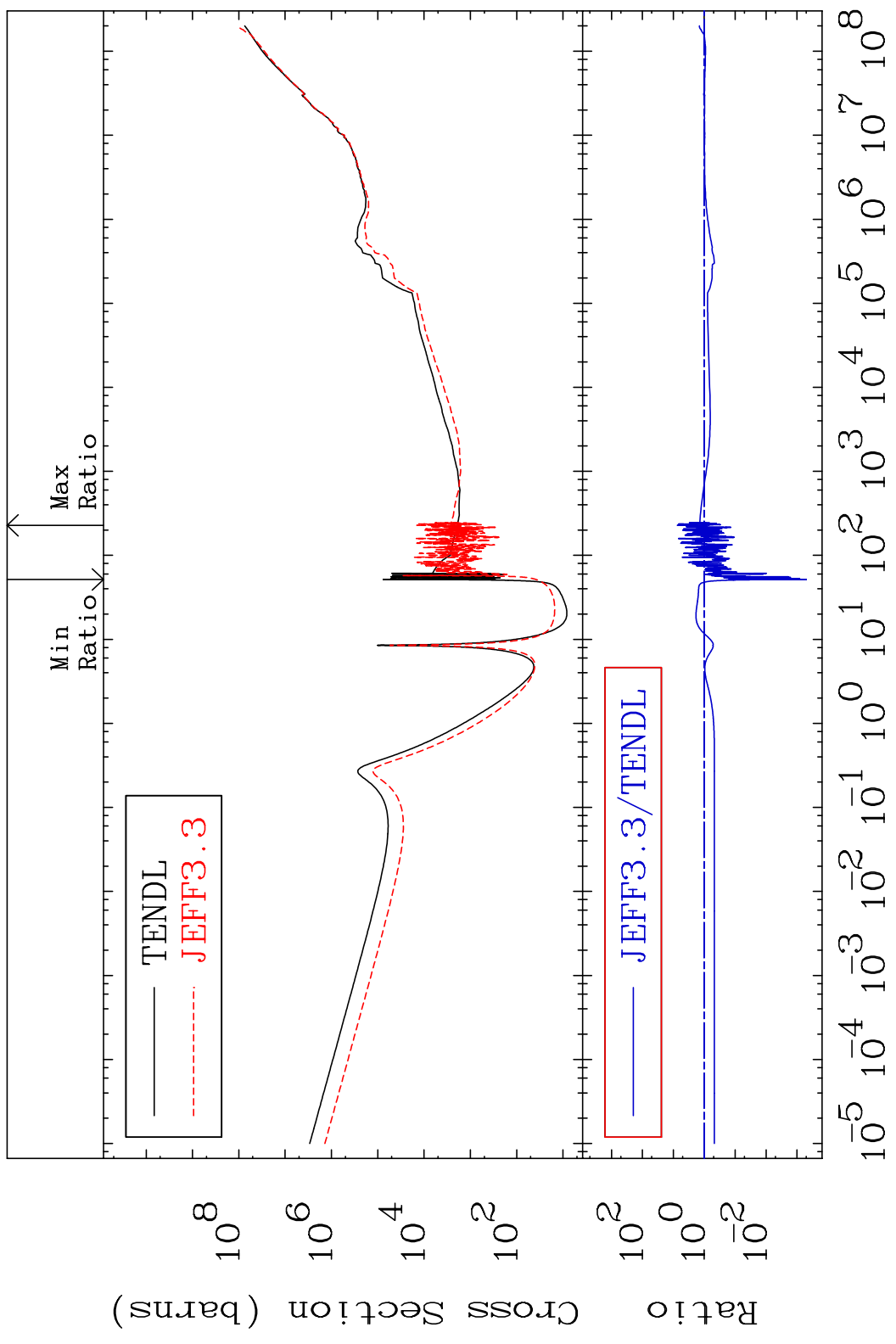
58

Incident Energy (eV)

67-Ho-166m

MAT 6729

Kerma total (eV-barns) 67-Ho-166m
Cross Section -99.95 To 650.4 %



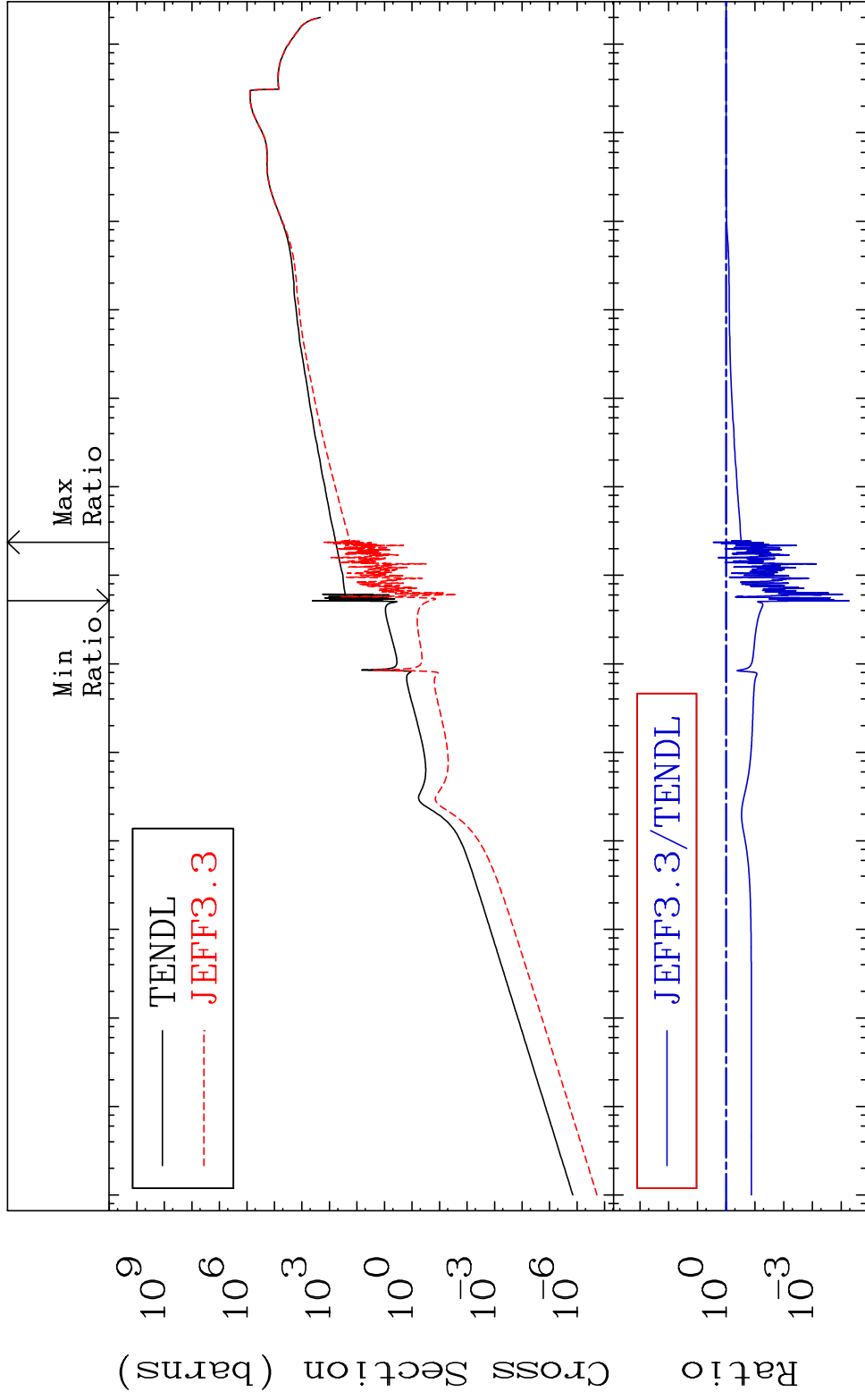
59

67-Ho-166m

MAT 6729

Kerma elastic
Cross Section

67-Ho-166m
-99.99 To 183.5 %



Cross Section (barns)

10^9
 10^6
 10^3
 10^0
 10^{-3}
 10^{-6}

Ratio

10^0
 10^{-3}

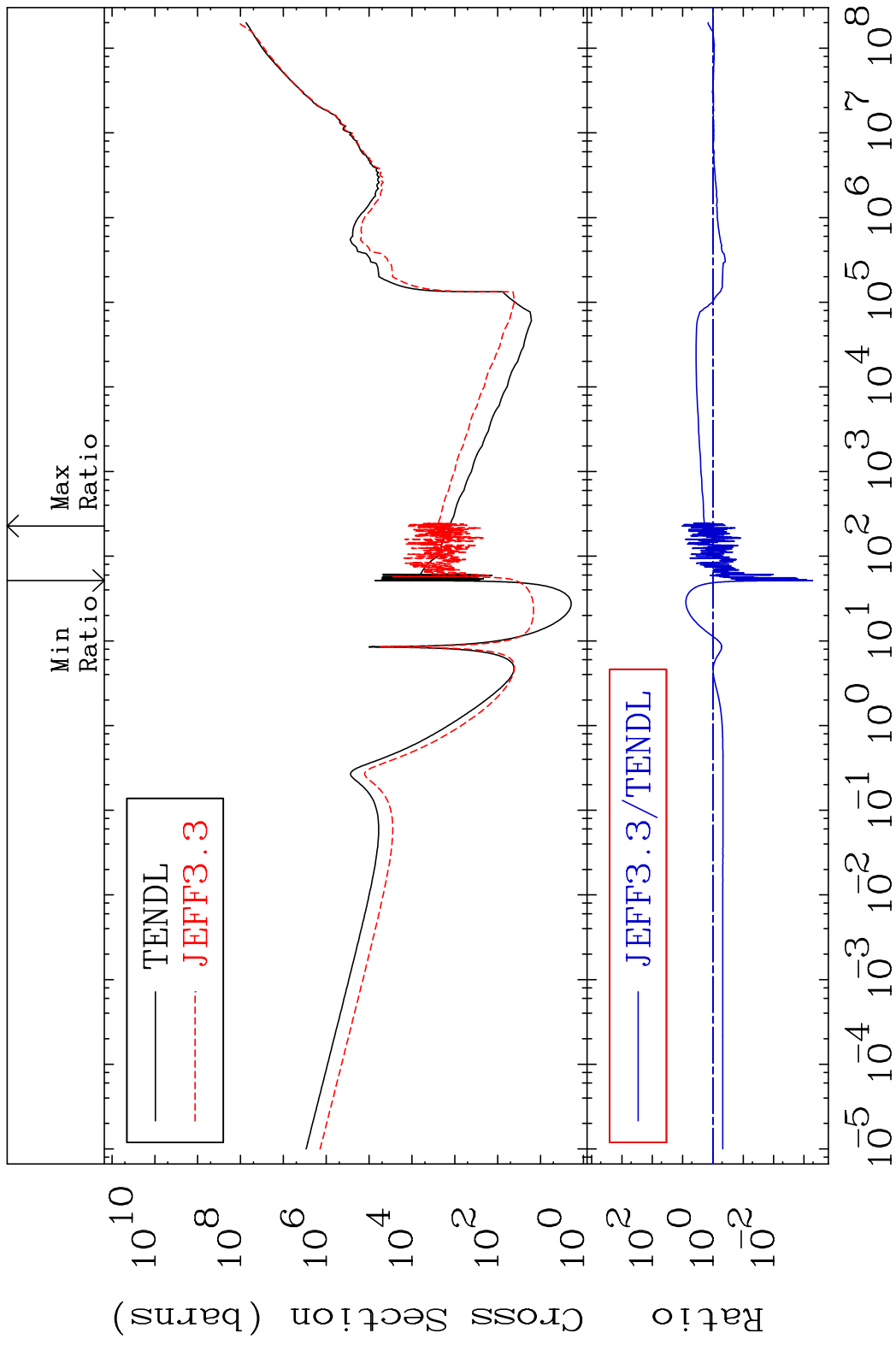
Incident Energy (eV)

10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8

60

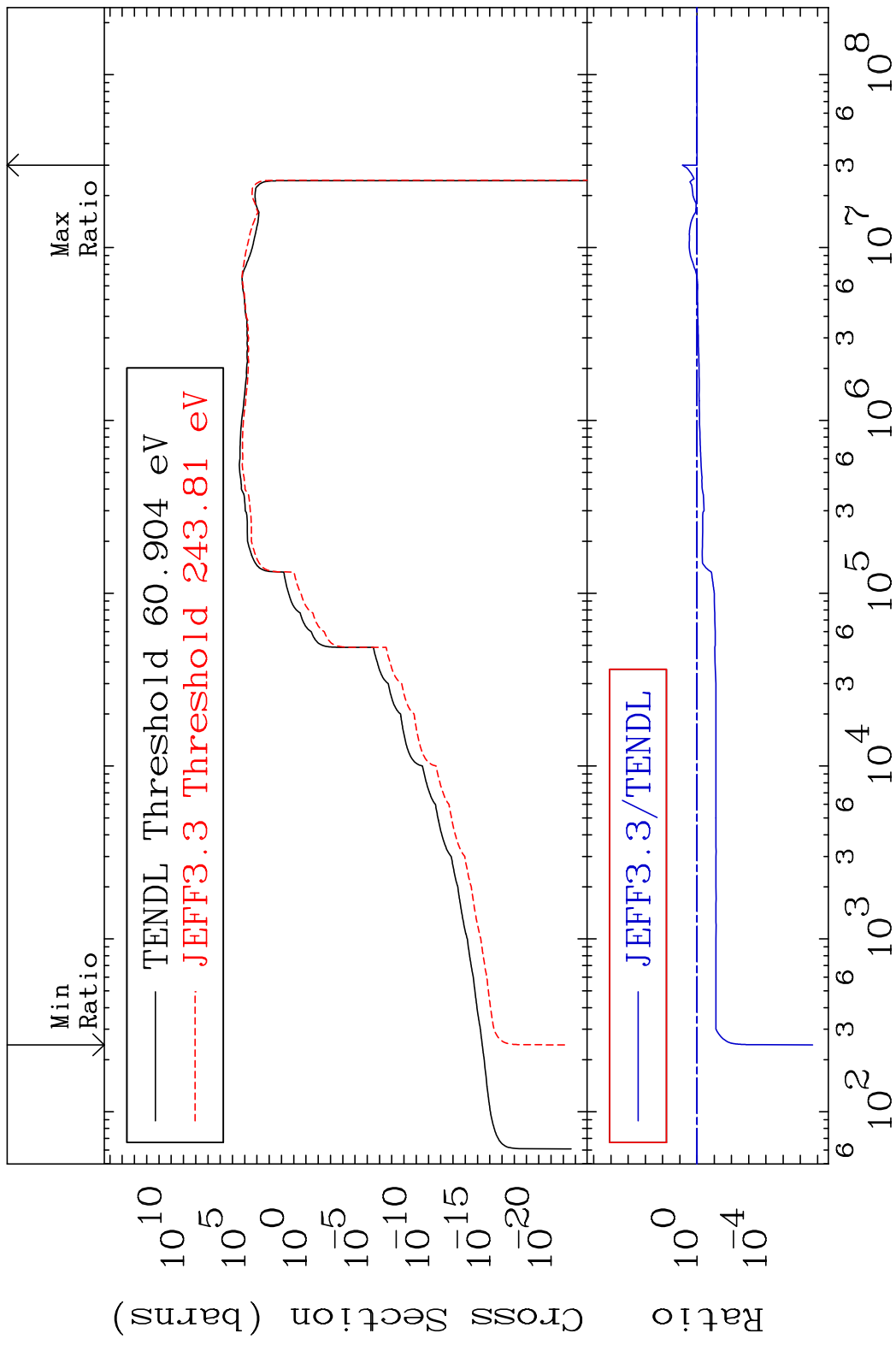
67-Ho-166m

MAT 6729 Kerma non-elastic (all but mt2) 67-Ho-166m
 Cross Section -99.95 To 917.0 %

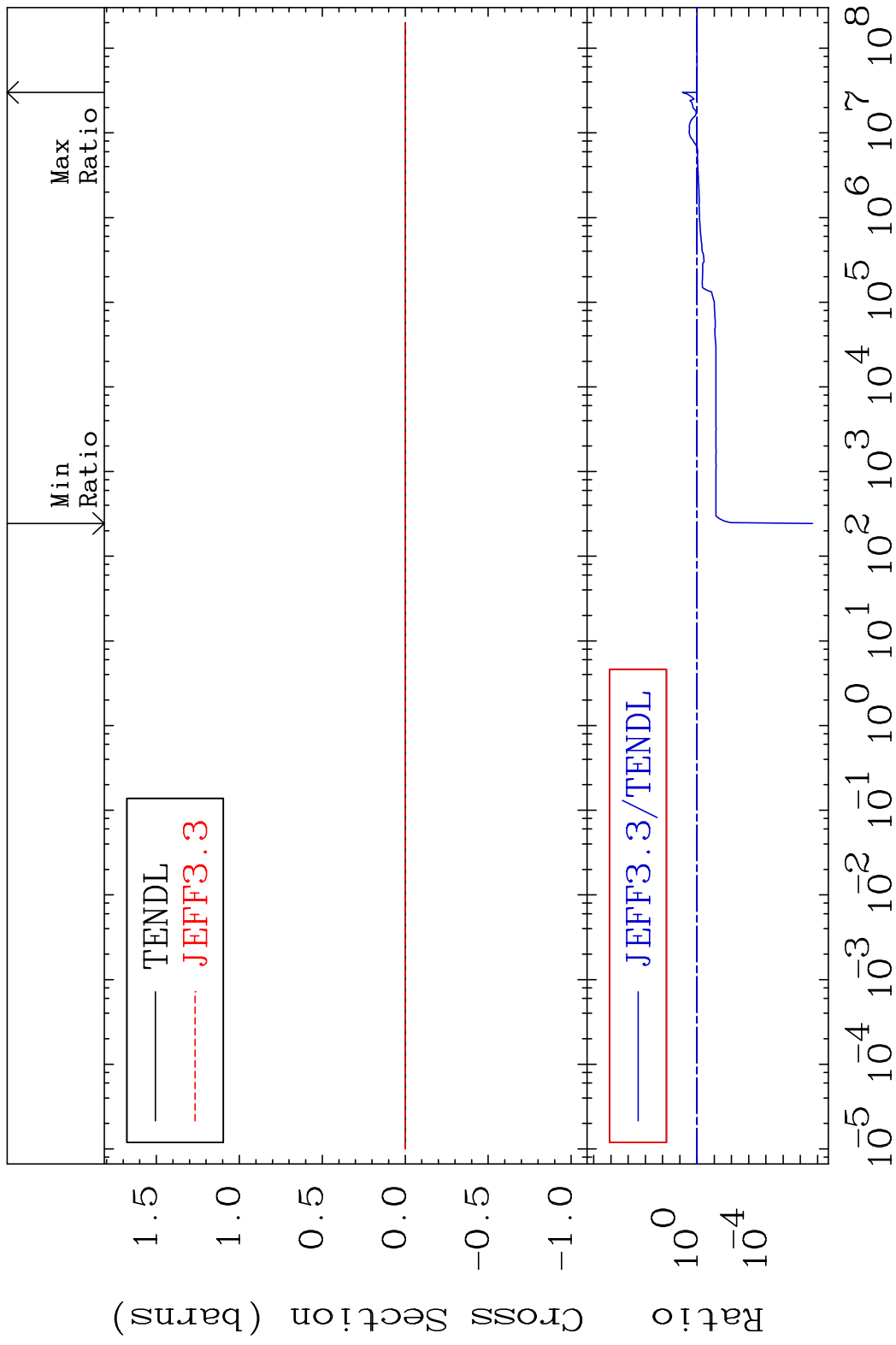


61 Incident Energy (eV) 67-Ho-166m

MAT 6729 Kerma inelastic (mt51-91) 67-Ho-166m
 Cross Section -100.0 To 609.2 %

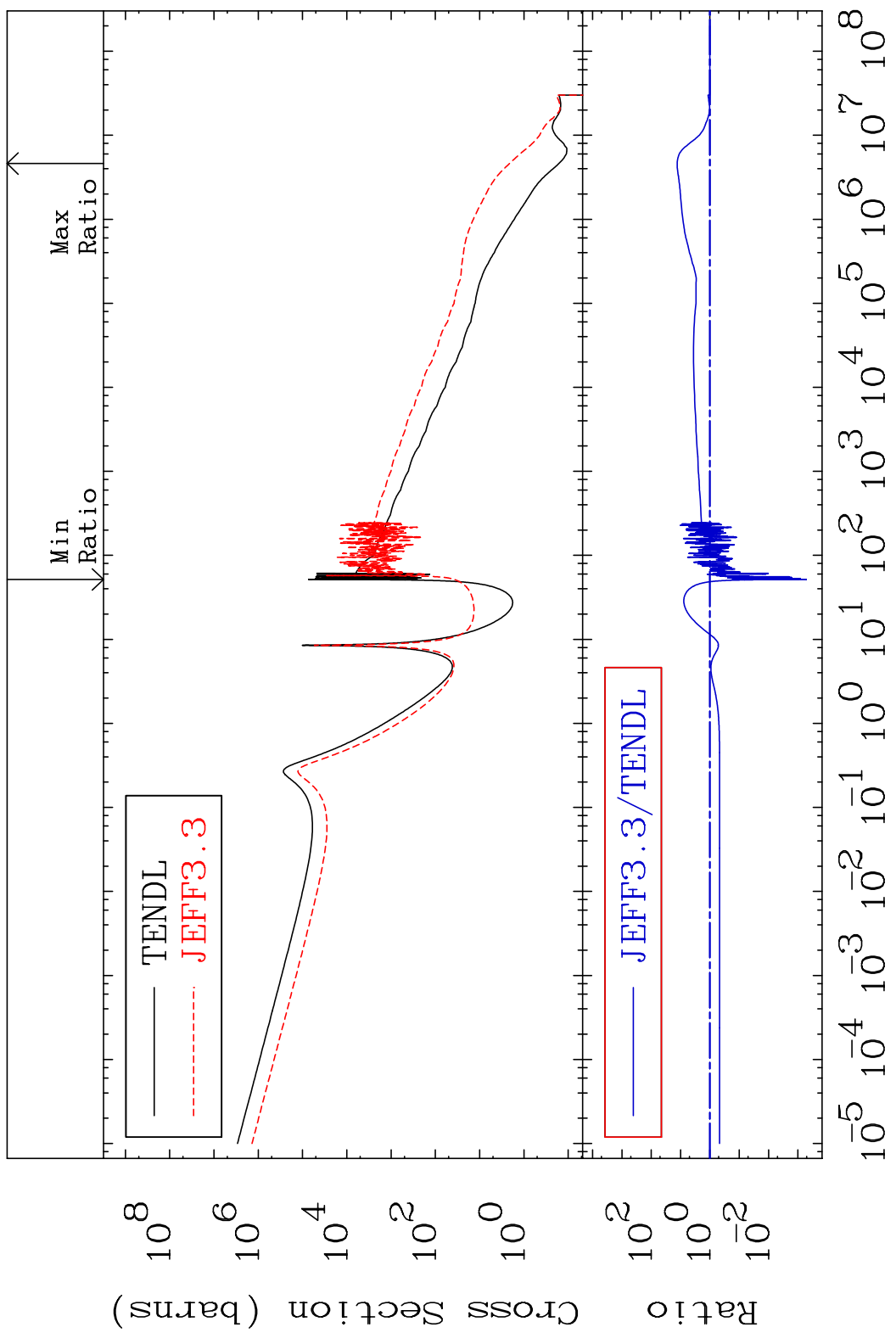


MAT 6729 Kerma fission (mt18 or mt19-20-21-36) - Ho-166m
 Cross Section -100.0 To 609.2 %



MAT 6729

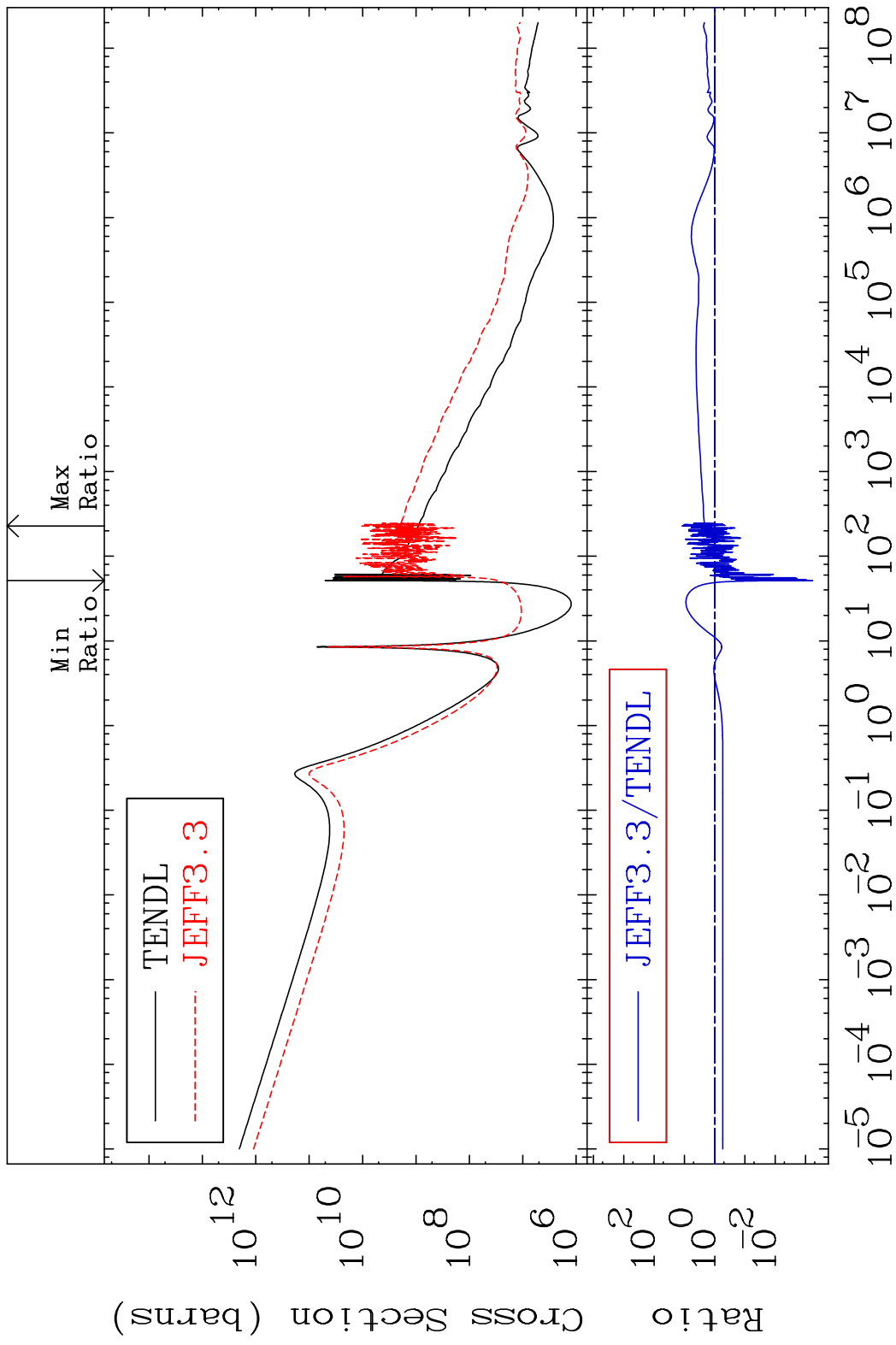
Kerma capture (mt102) 67-Ho-166m
Cross Section -99.95 To 1204. %



64

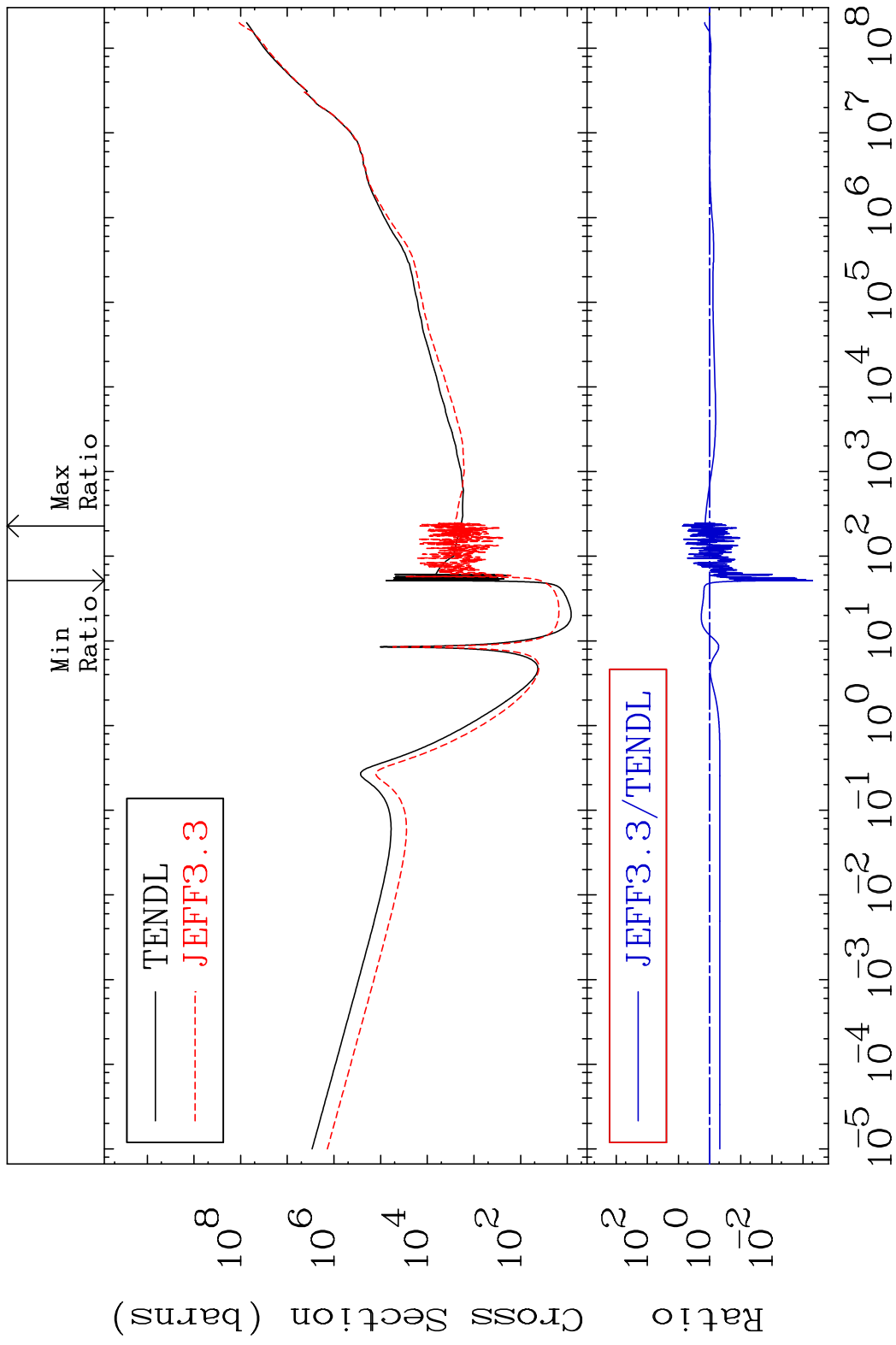
Incident Energy (eV) 67-Ho-166m

MAT 6729 Total photon (eV-barns) 67-Ho-166m
 Cross Section -99.94 To 1068. %



65 Incident Energy (eV) 67-Ho-166m

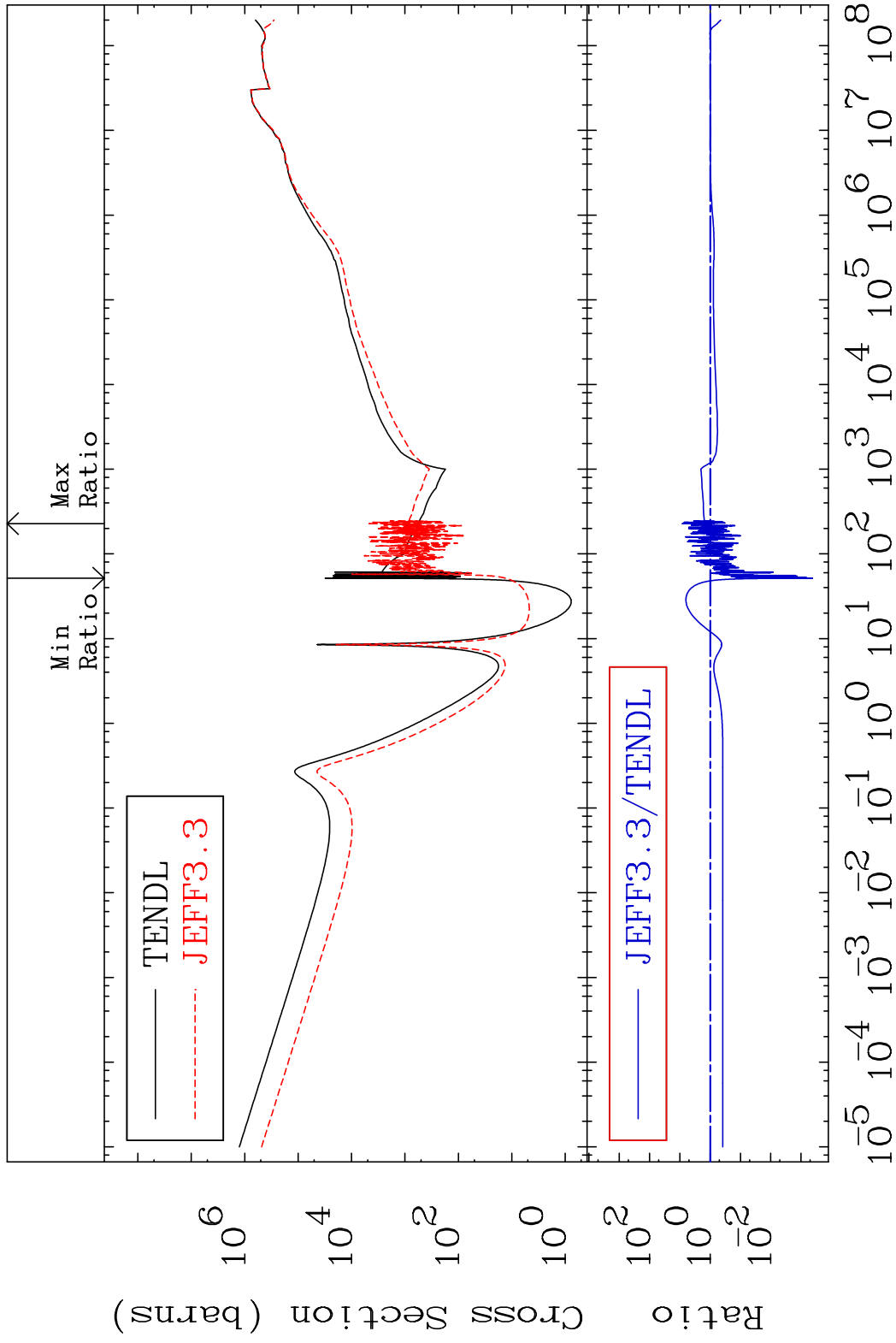
MAT 6729 Total kinematic kerma (high limit)67-Ho-166m
 Cross Section -99.95 To 650.4 %



MAT 6729

Dpa total (eV-barns) 67-Ho-166m

Cross Section -99.96 To 726.9 %



67

Incident Energy (eV)

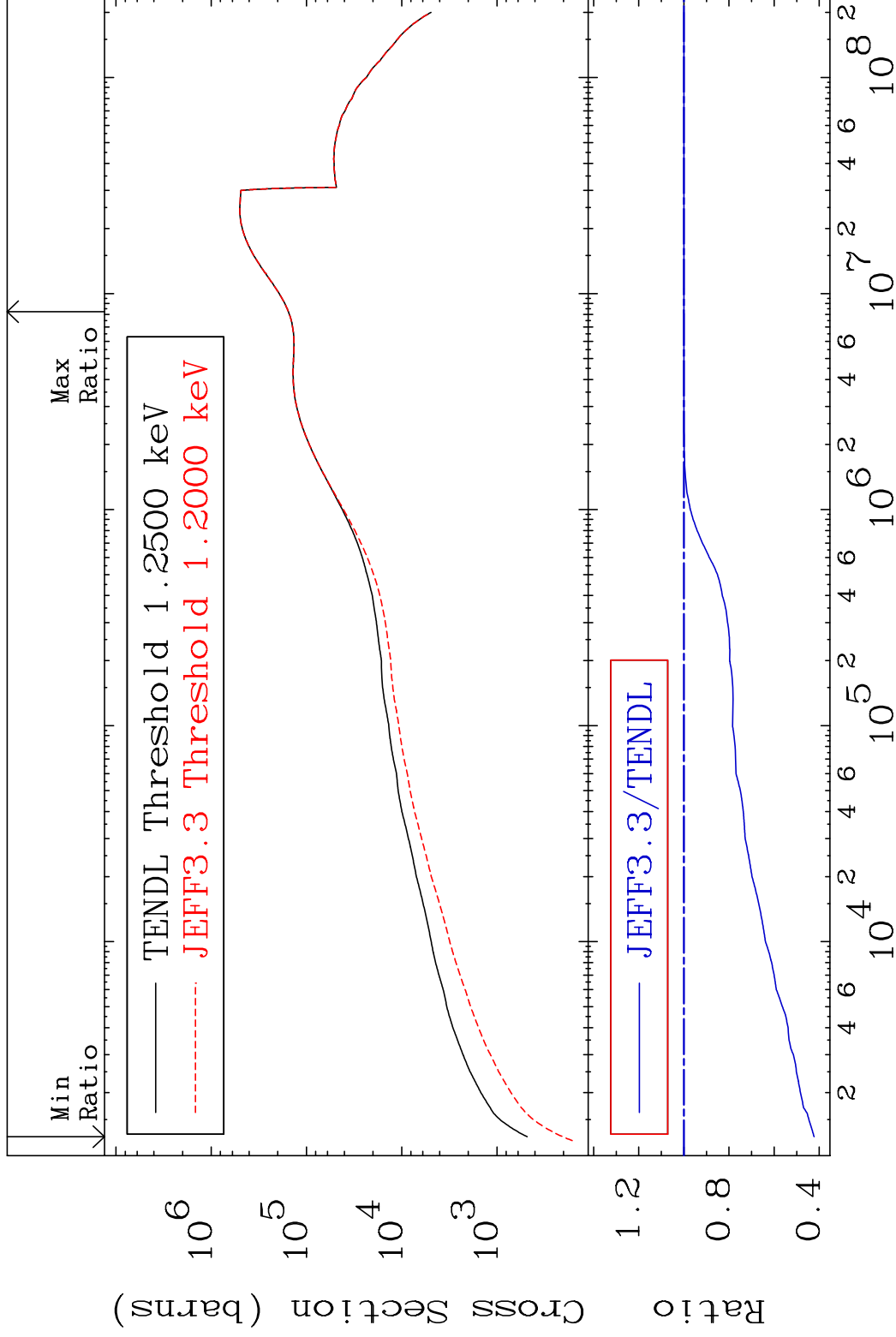
67-Ho-166m

MAT 6729

Dpa elastic (mt2)

67-Ho-166m

Cross Section -57.72 To 0.106 %

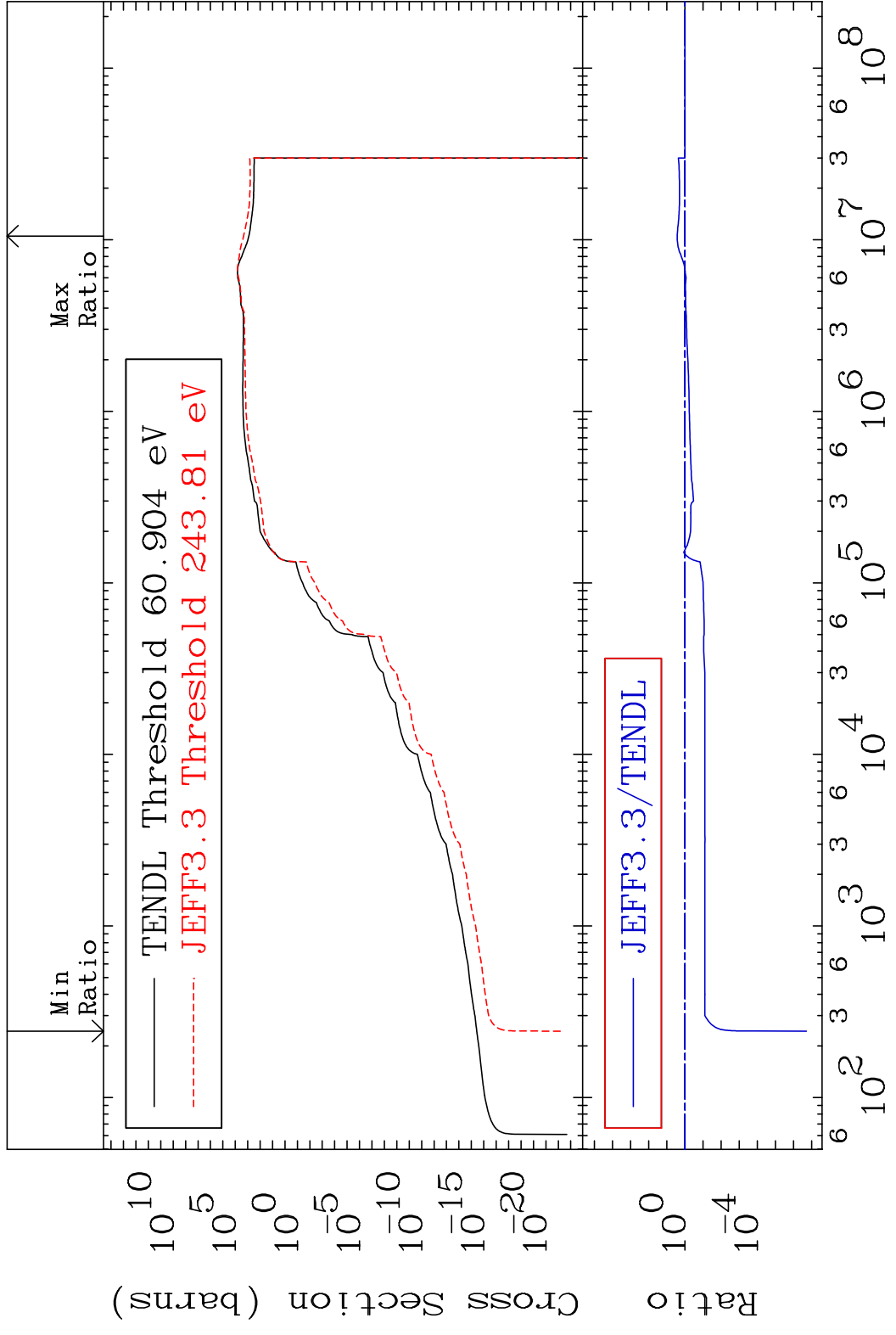


68

Incident Energy (eV)

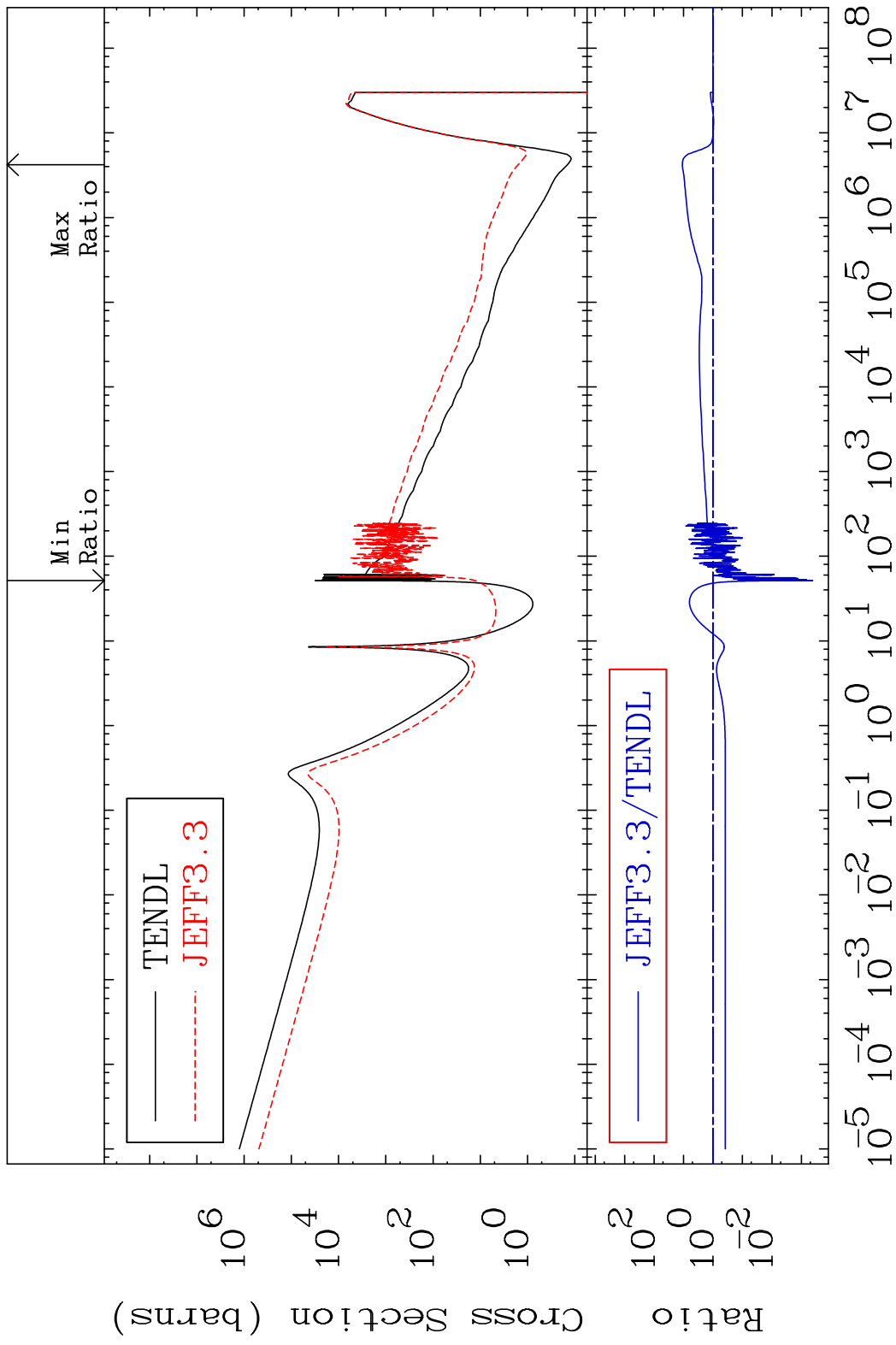
67-Ho-166m

MAT 6729 Dpa inelastic (mt51-91) 67-Ho-166m
 Cross Section -100.0 To 167.9 %



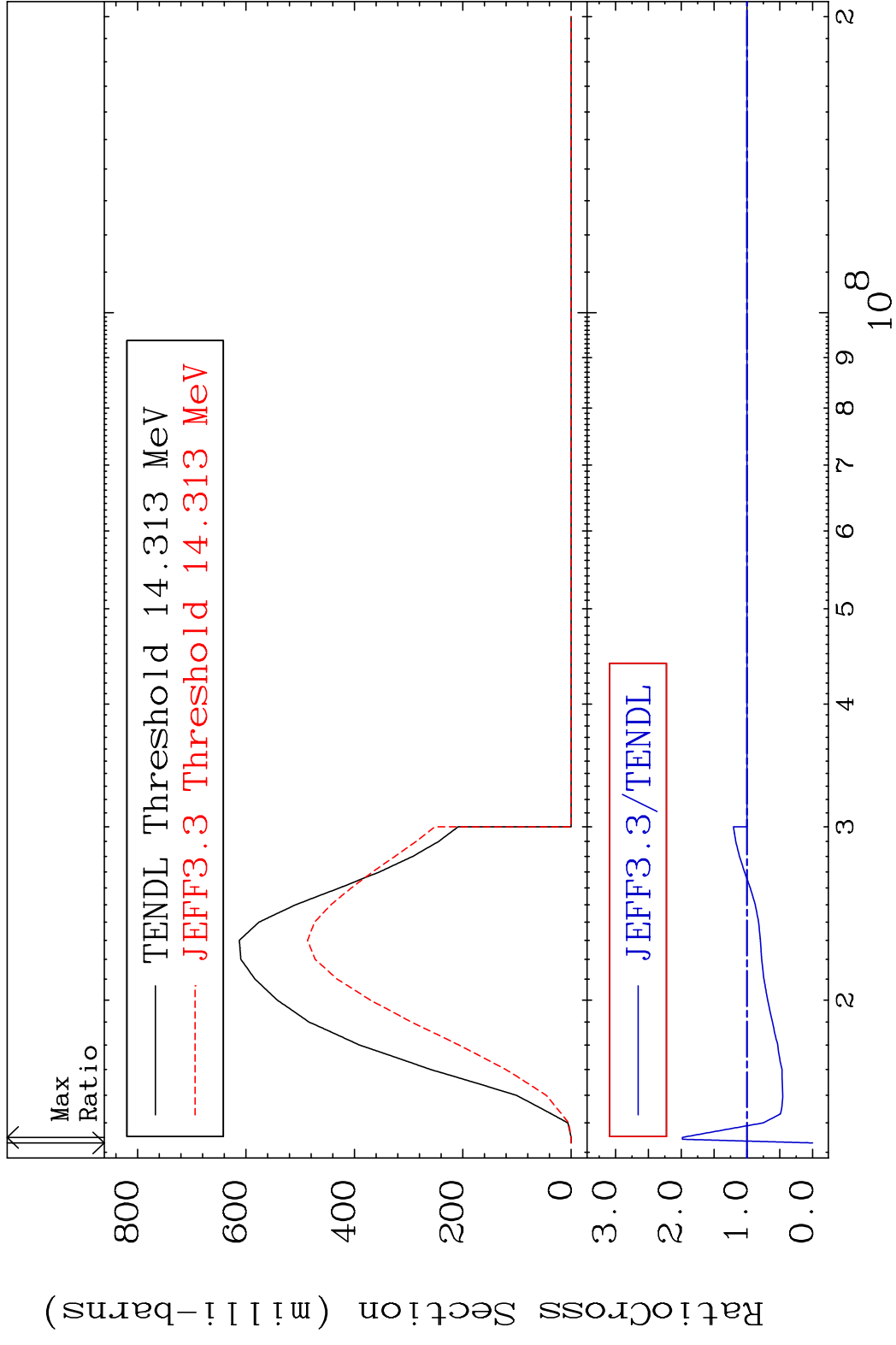
69 67-Ho-166m

MAT 6729 Dpa disappearance (mt102 -120) 67-Ho-166m
 Cross Section -99.96 To 1000. %

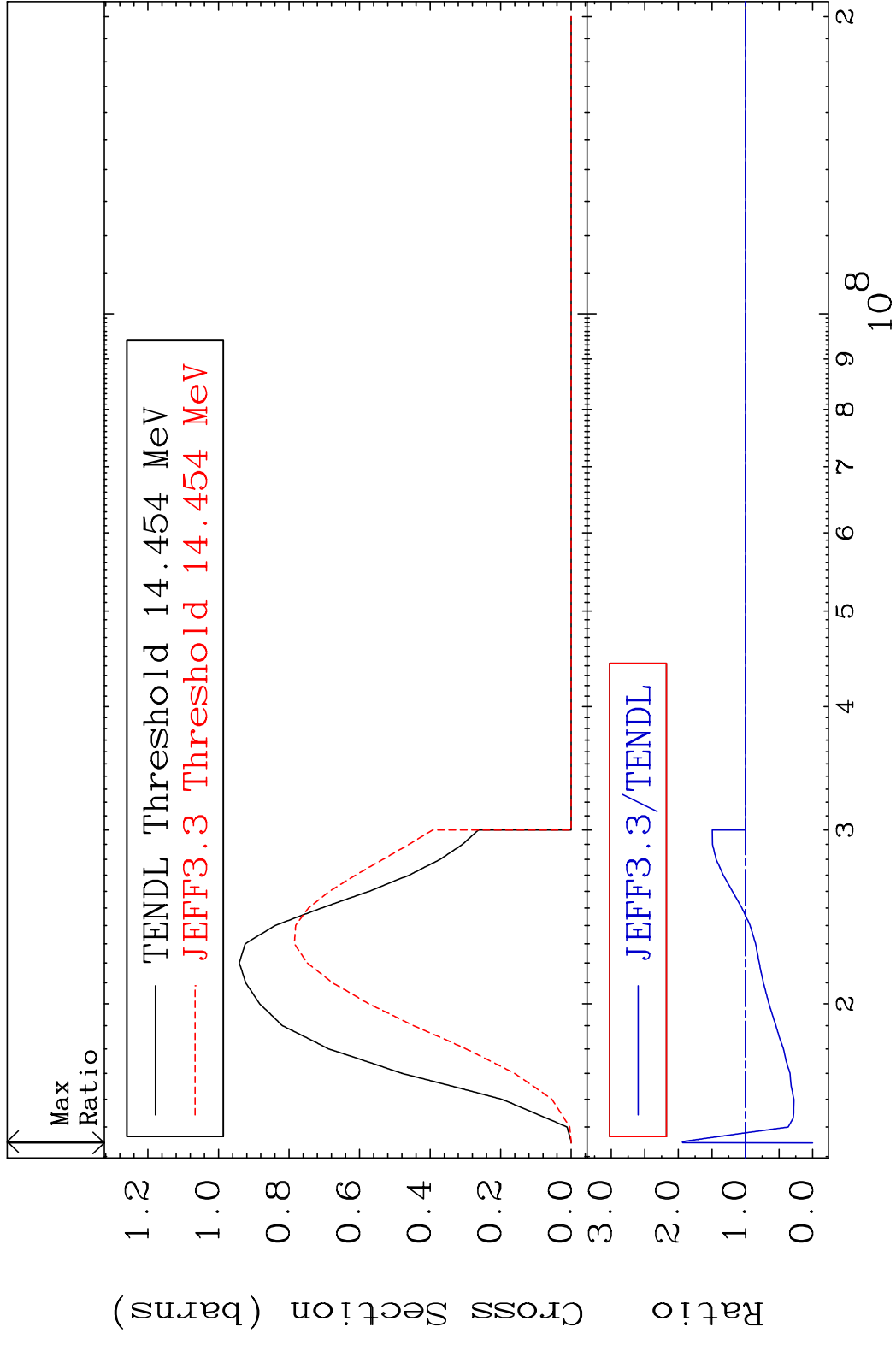


70 Incident Energy (eV) 67-Ho-166m

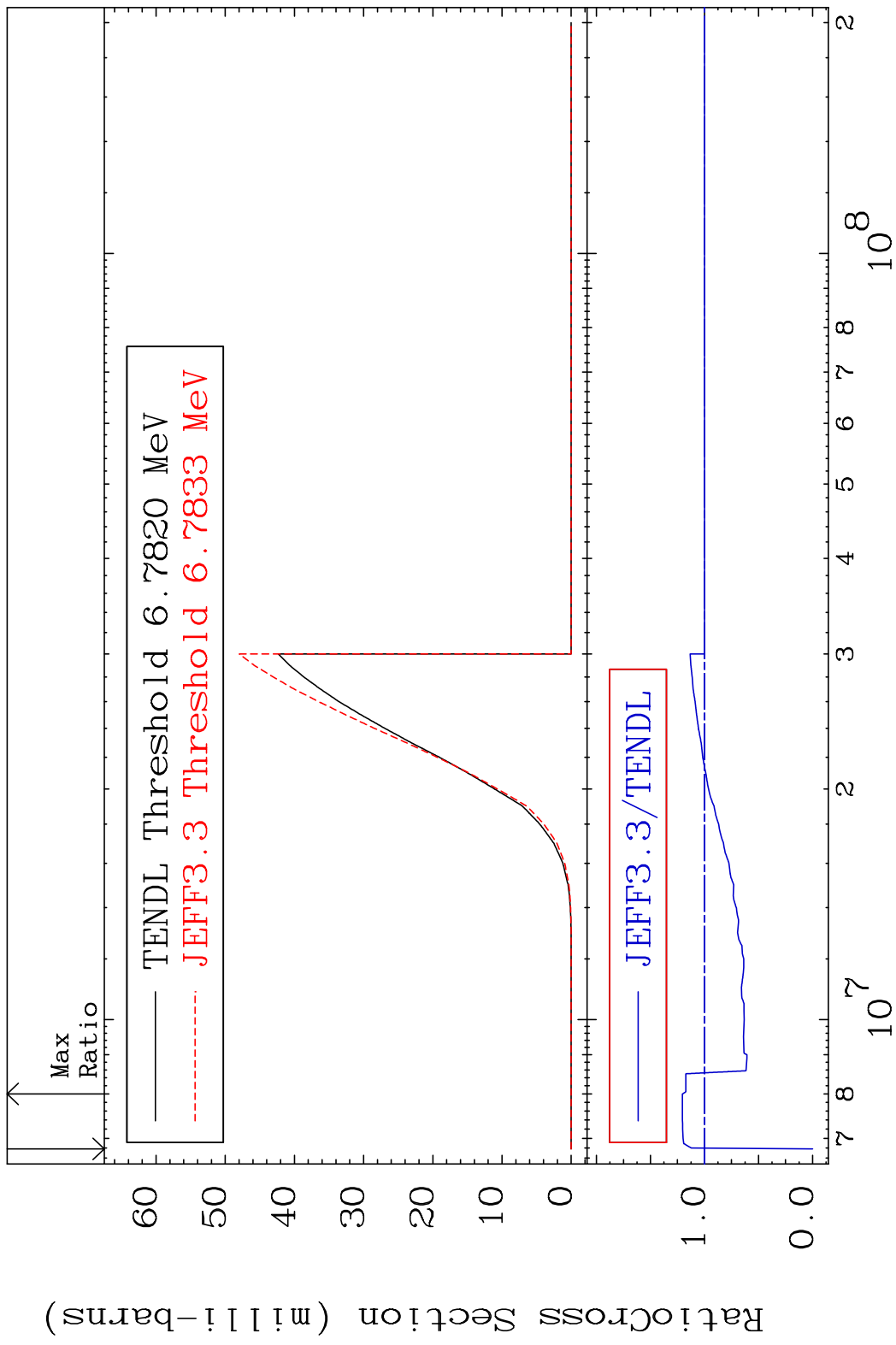
MAT 6729 (n,3n):67-Ho-164g 67-Ho-166m
 Radionuclide Production Cross Section 180.01 dth 98.29 %



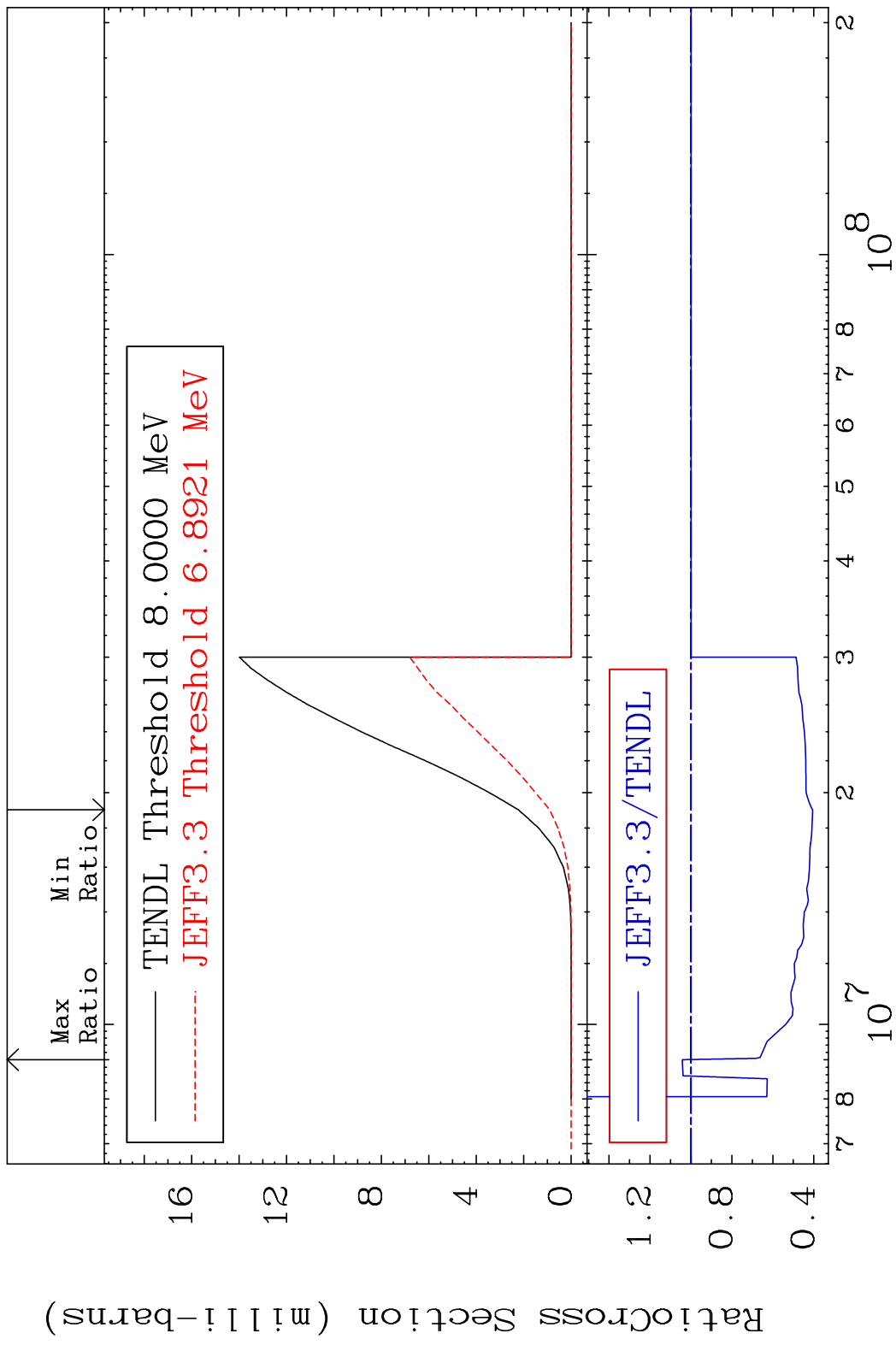
MAT 6729 (n, 3n):67-Ho-164m3 67-Ho-166m
 Radionuclide Production Cross Section Ratio 94.08 %



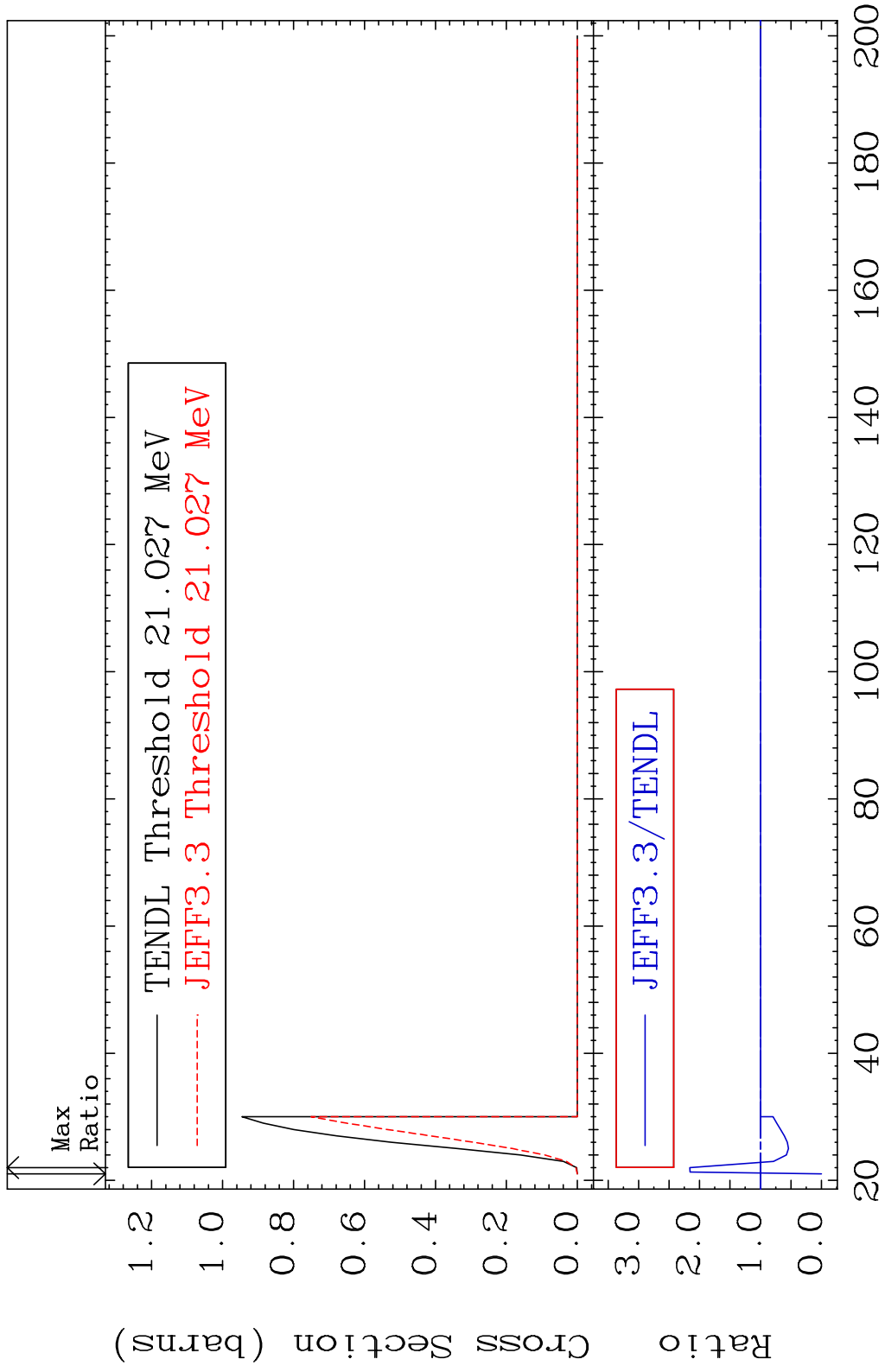
MAT 6729 (n, n') p:66-Dy-165g 67-Ho-166m
 Radionuclide Production Cross Section 180.01 dth 20.48 %



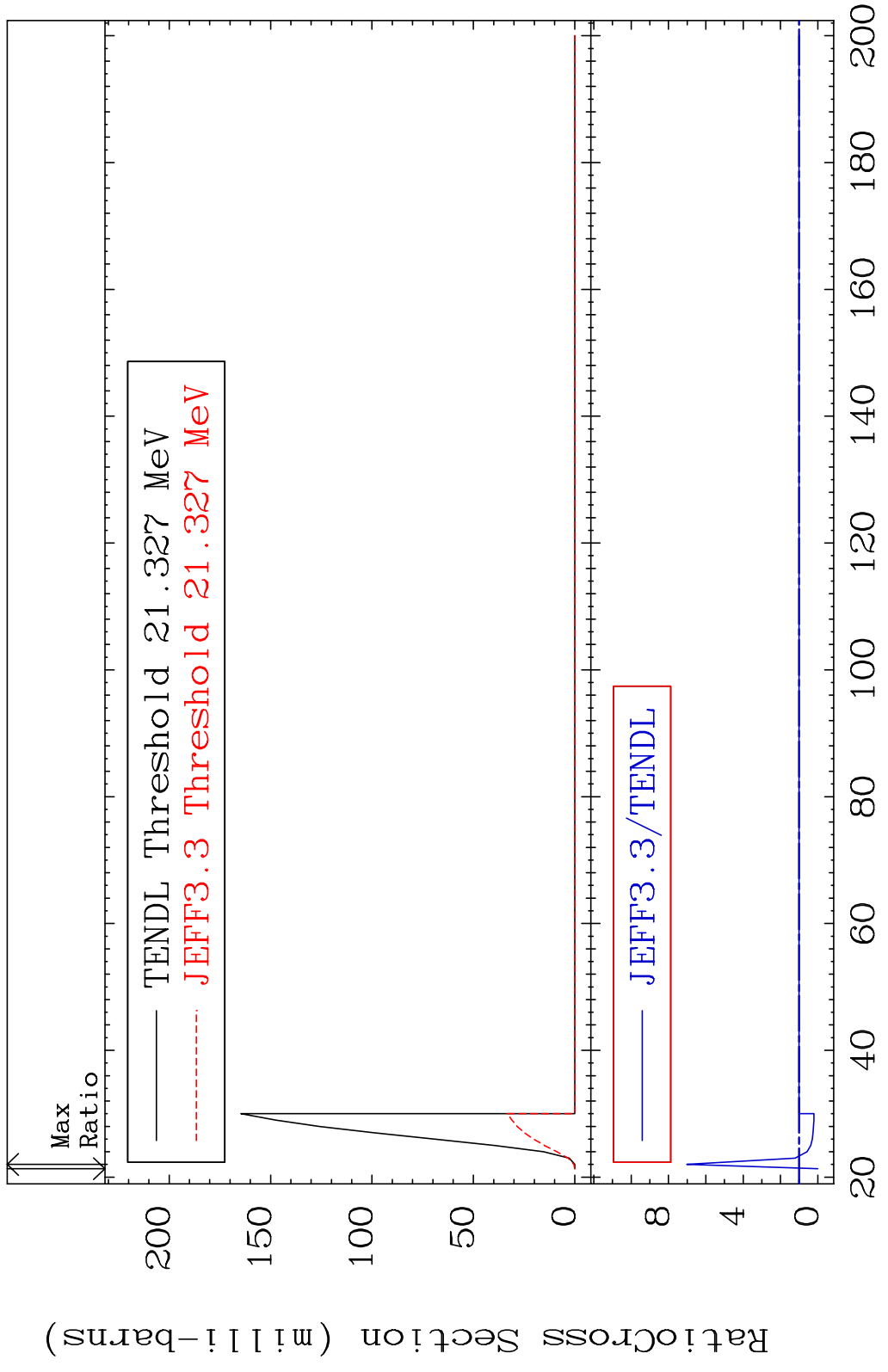
MAT 6729 (n, n') p:66-Dy-165m2 67-Ho-166m
 Radionuclide Production Cross Section 4.196 %



MAT 6729 (n,4n):67-Ho-163g 67-Ho-166m
 Radionuclide Production Cross Section 180.0 dth 116.0 %

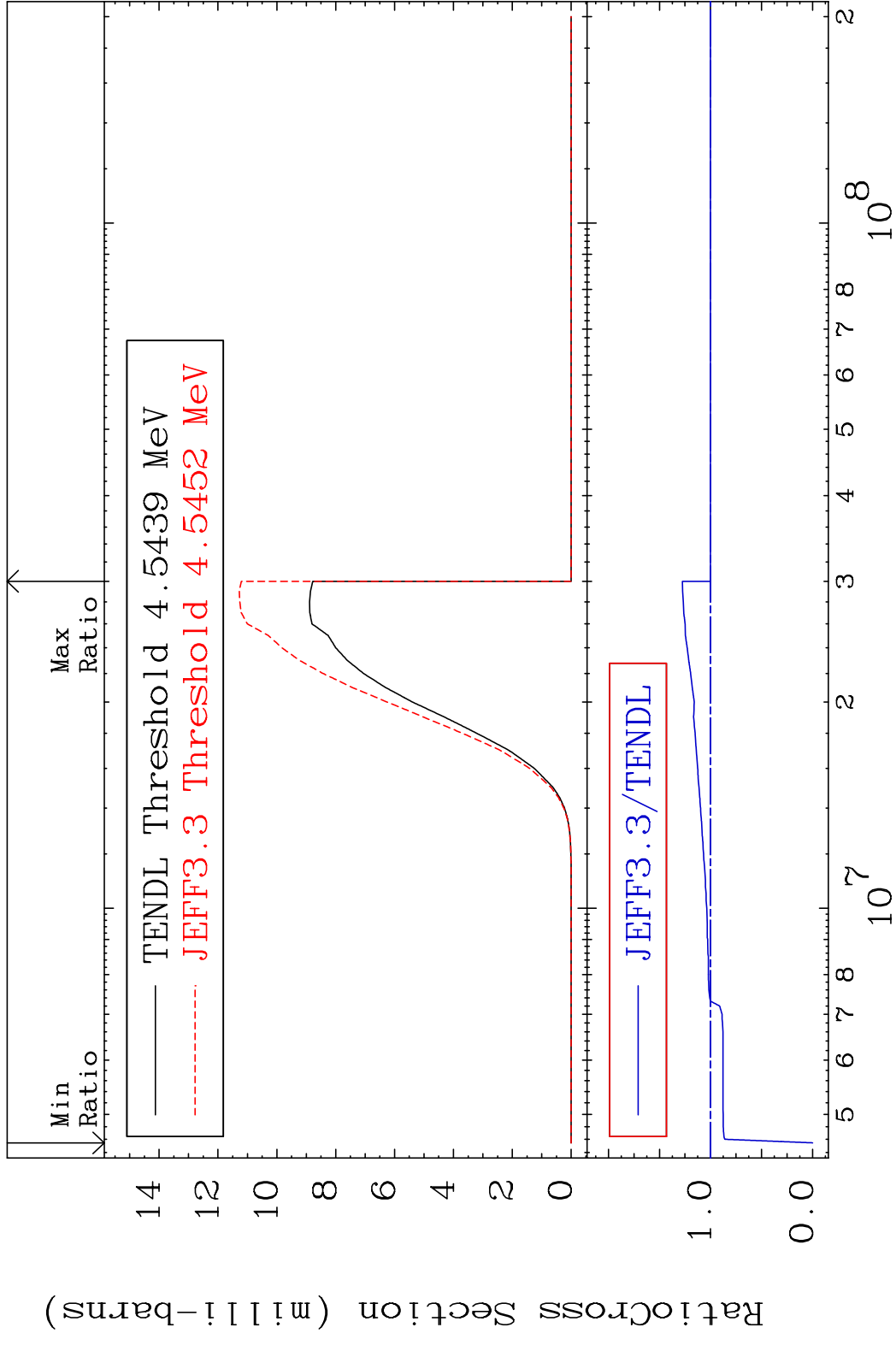


MAT 6729 (n, 4n):67-Ho-163m3 67-Ho-166m
 Radionuclide Production Cross Section 180.0 dth 602.2 %



76 Incident Energy (MeV) 67-Ho-166m

MAT 6729 (n, d):66-Dy-165g 67-Ho-166m
 Radionuclide Production Cross Section 180.01 dth 27.60 %



MAT 6729 (n, d): 66-Dy-165m2 67-Ho-166m
 Radionuclide Production Cross Section 48.75 dtho 34.25 %

