

Program Complot
(Version 2021-1)

by

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(Present Contact Information)

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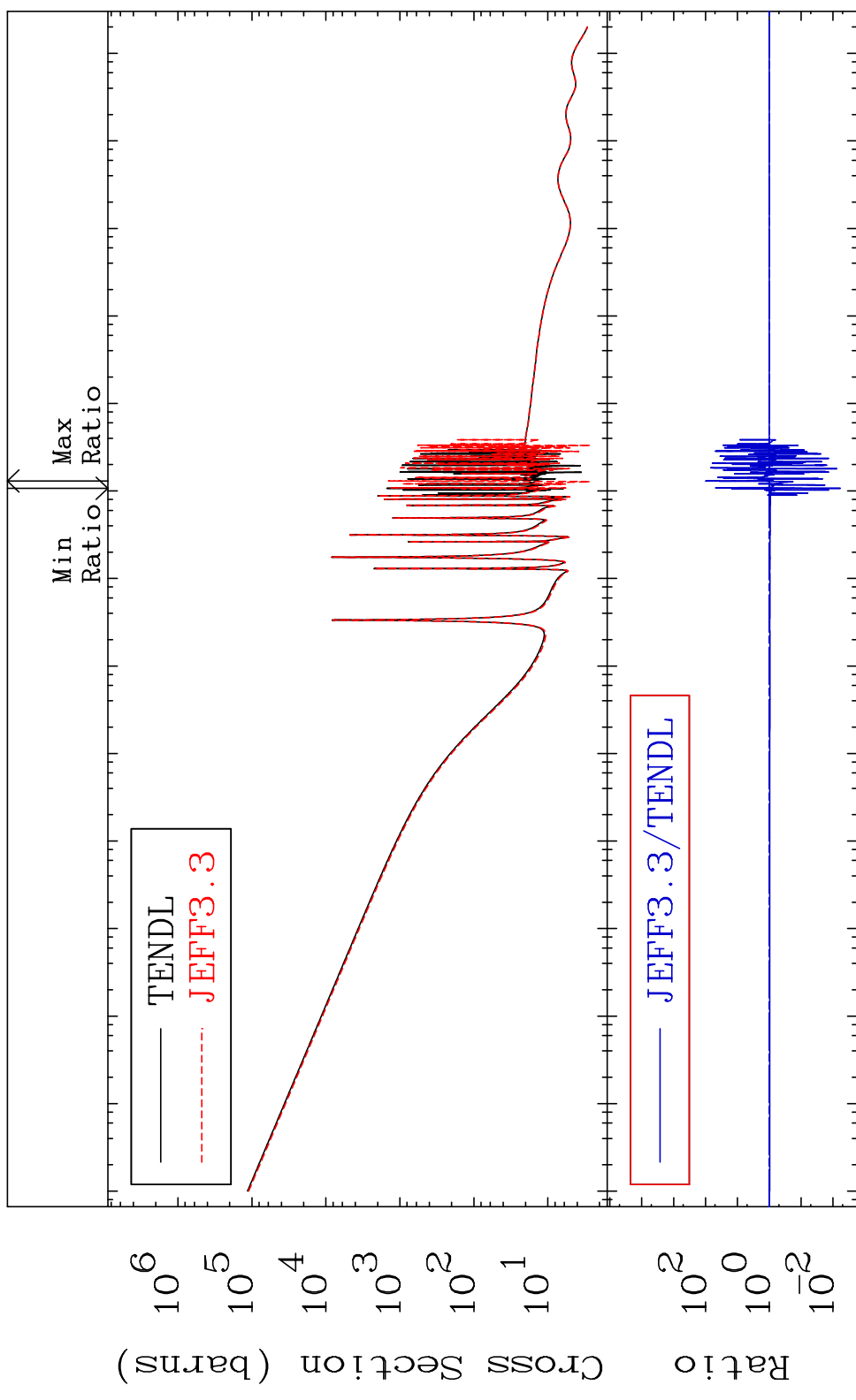
E.Mail:redcullen1@comcast.net

Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8034

Total Cross Section -99.41 To 9710. %
80-Hg-199



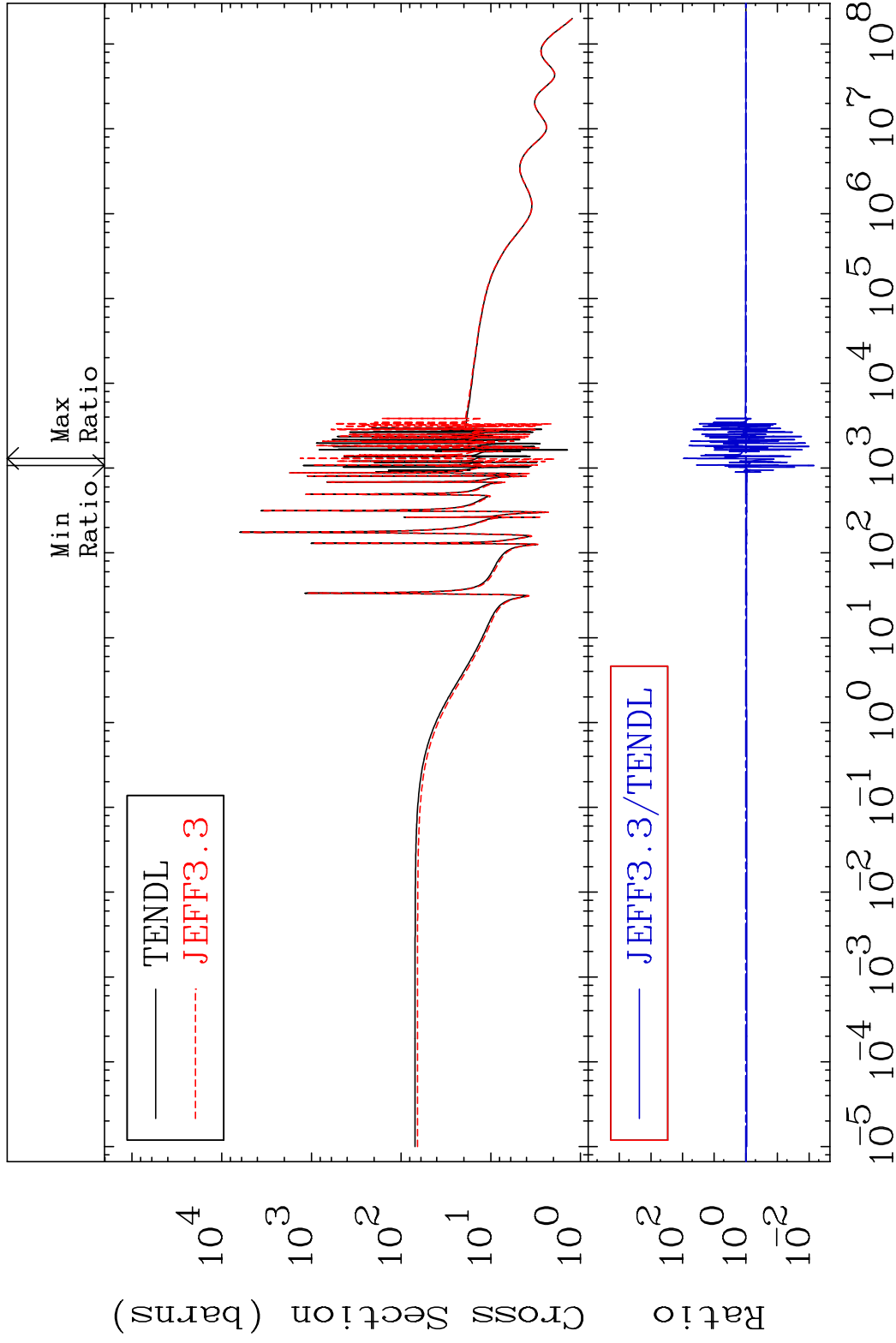
1 Incident Energy (eV) 80-Hg-199

MAT 8034

Elastic

80-Hg-199

Cross Section -99.31 To 9121. %



2

Incident Energy (eV)

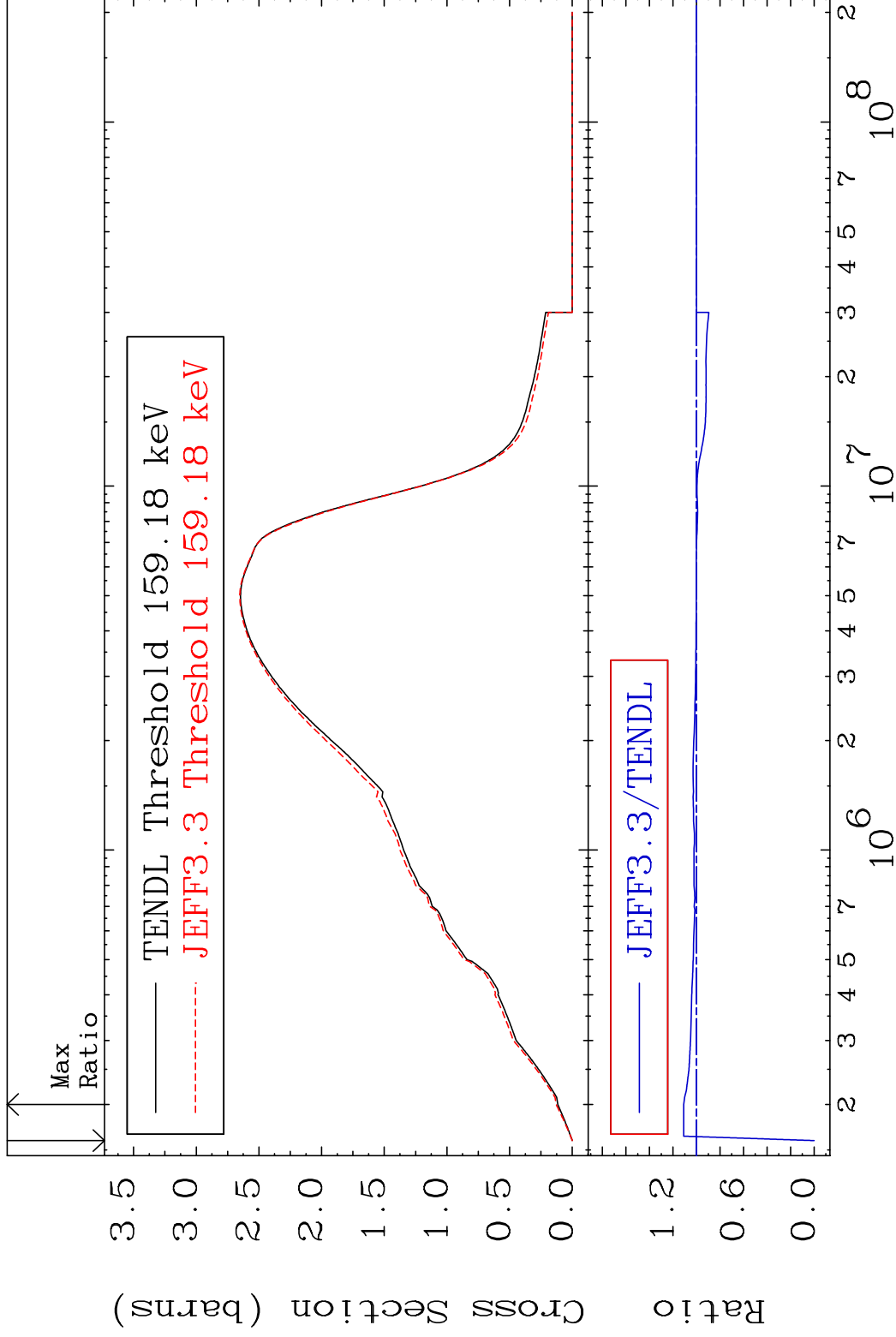
80-Hg-199

MAT 8034

Inelastic

80-Hg-199

Cross Section -100.0 To 10.92 %



3

Incident Energy (eV)

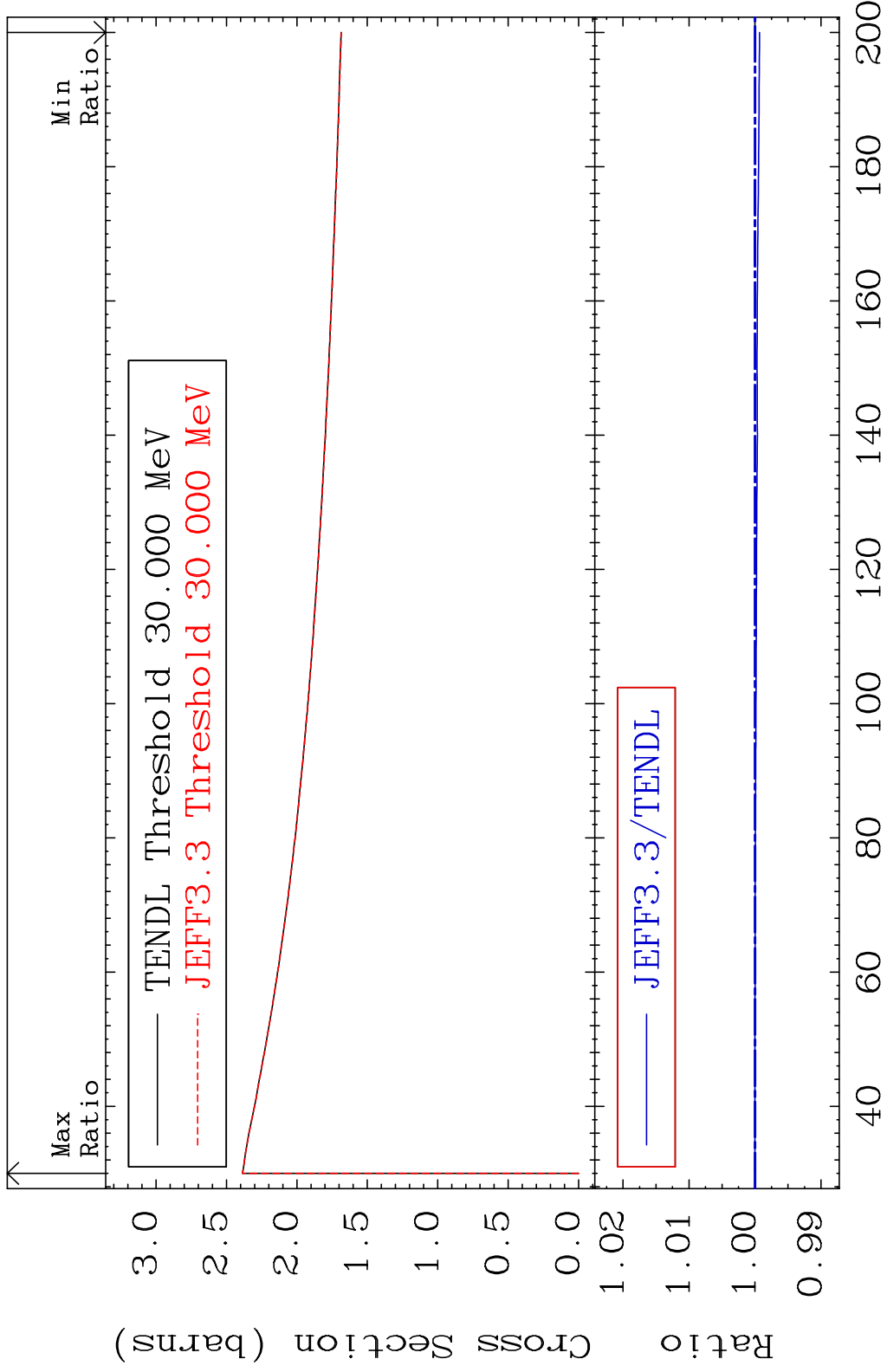
80-Hg-199

MAT 8034

(n, remainder)

80-Hg-199

Cross Section -0.070 To 0.000 %



4

Incident Energy (MeV)

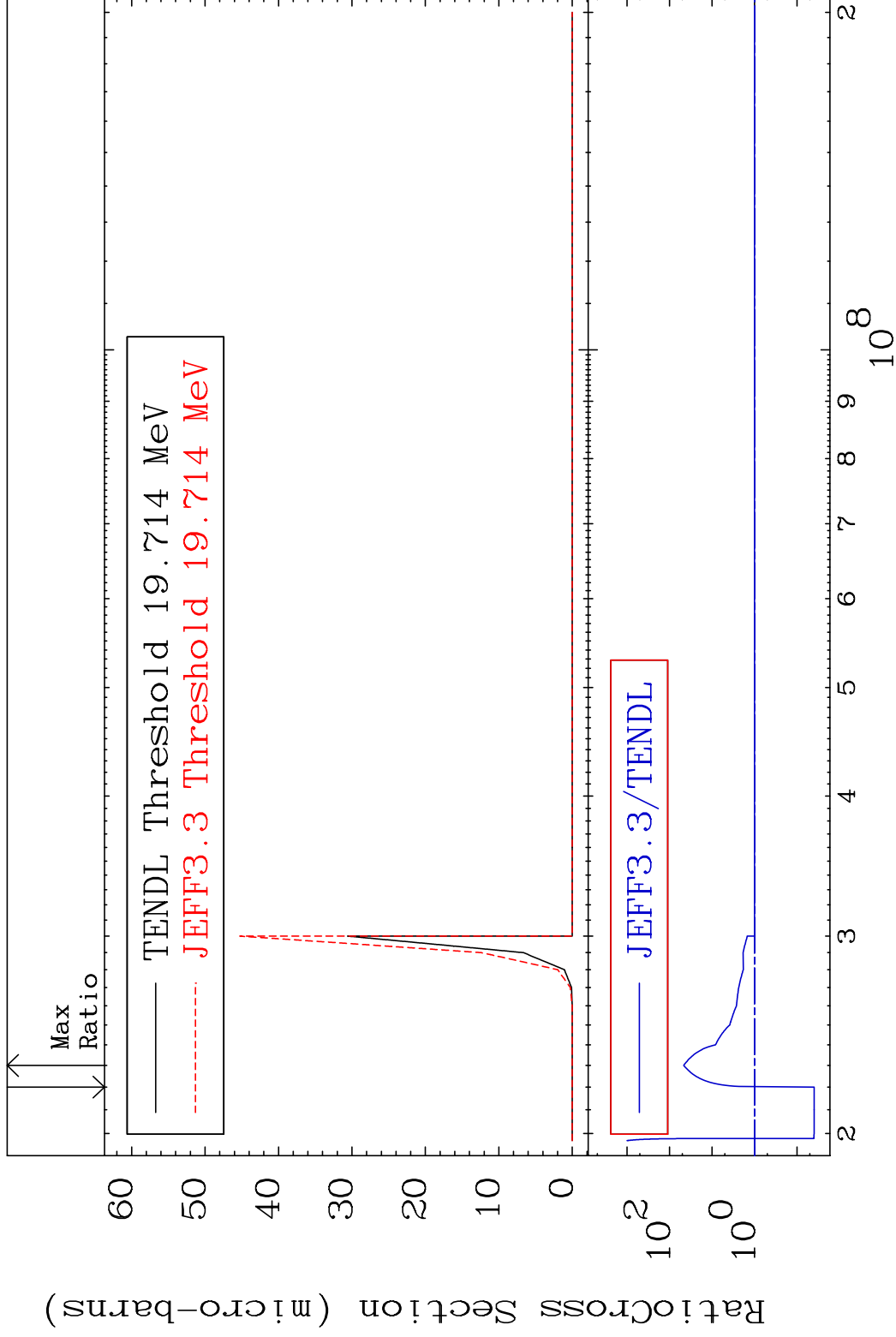
80-Hg-199

MAT 8034

(n,2n) d

80-Hg-199

Cross Section -96.03 To 4547. %



5

Incident Energy (eV)

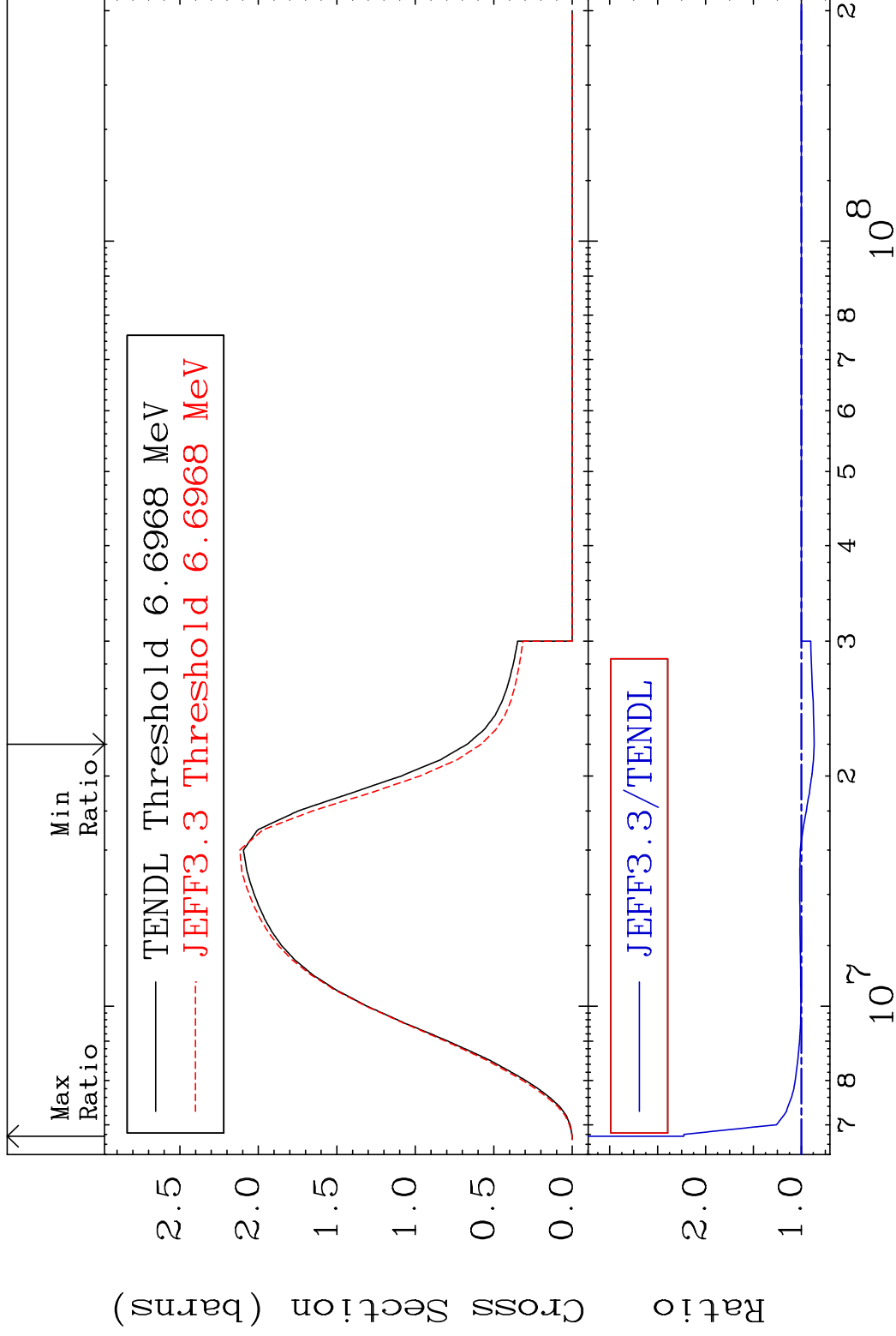
80-Hg-199

MAT 8034

(n,2n)

80-Hg-199

Cross Section -13.33 To 122.9 %



6

Incident Energy (eV)

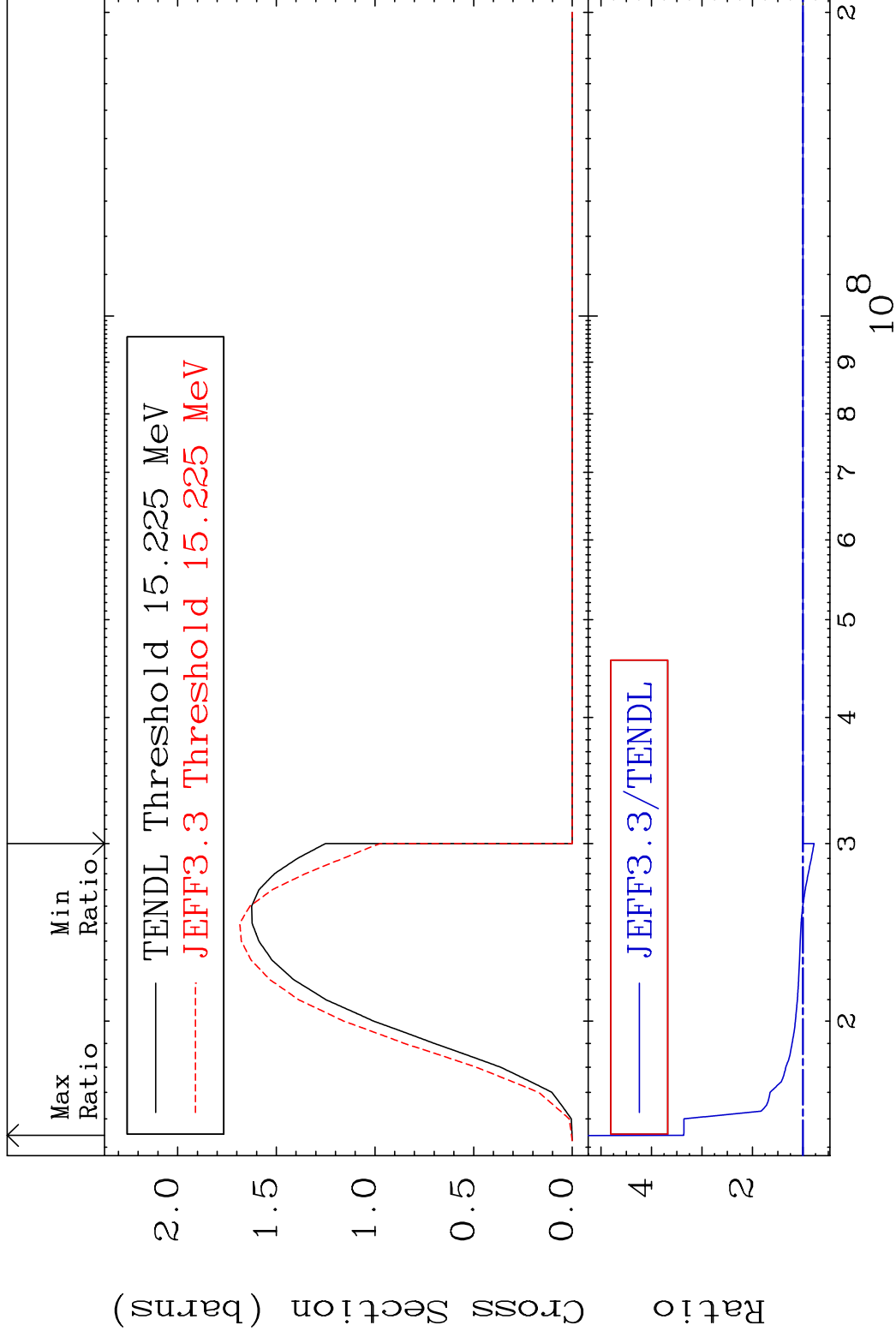
80-Hg-199

MAT 8034

(n,3n)

80-Hg-199

Cross Section -22.01 To 236.3 %



7

Incident Energy (eV)

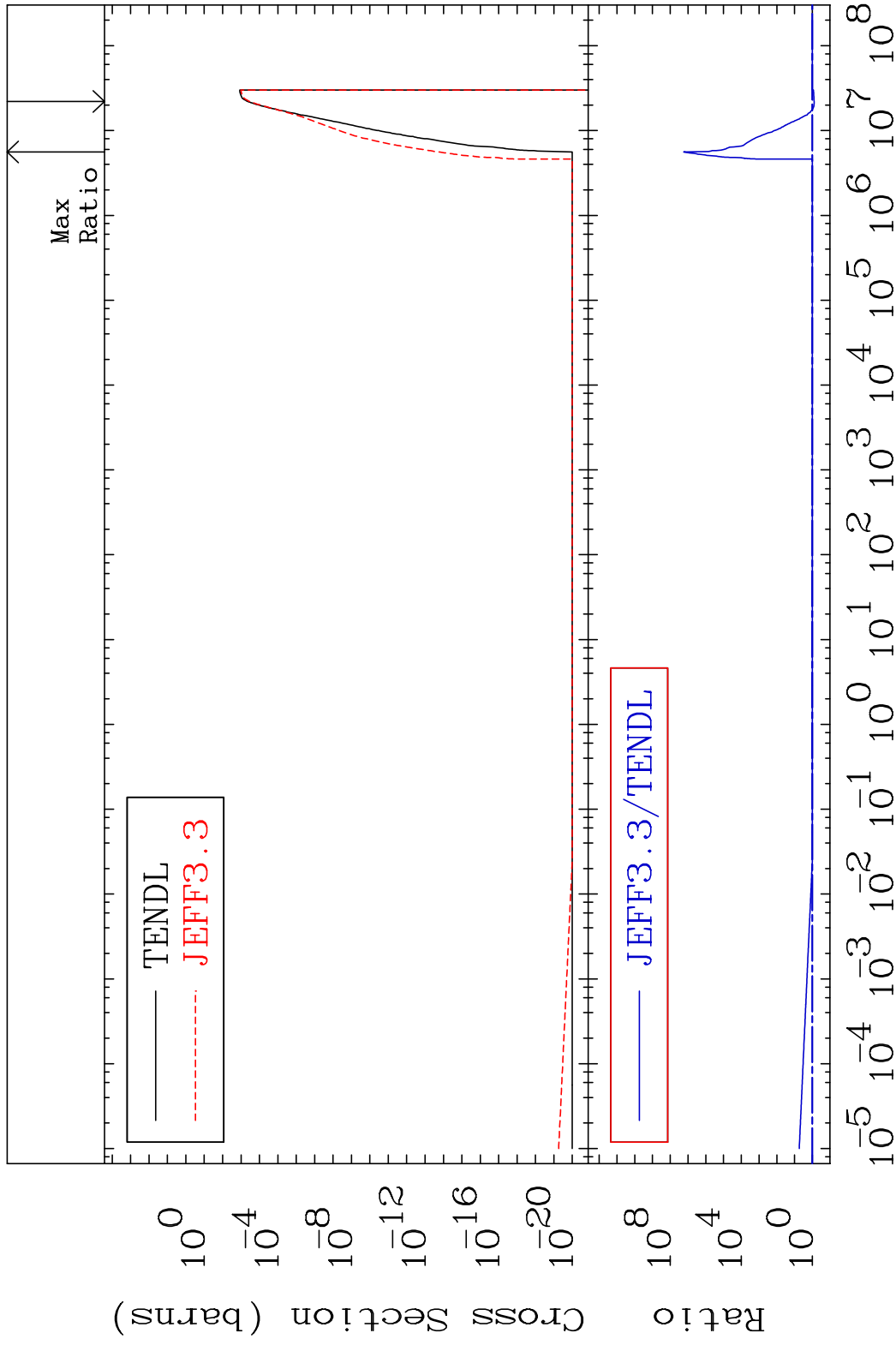
80-Hg-199

MAT 8034

(n, n') α

80-Hg-199

Cross Section -20.36 To 9999. %



8

Incident Energy (eV)

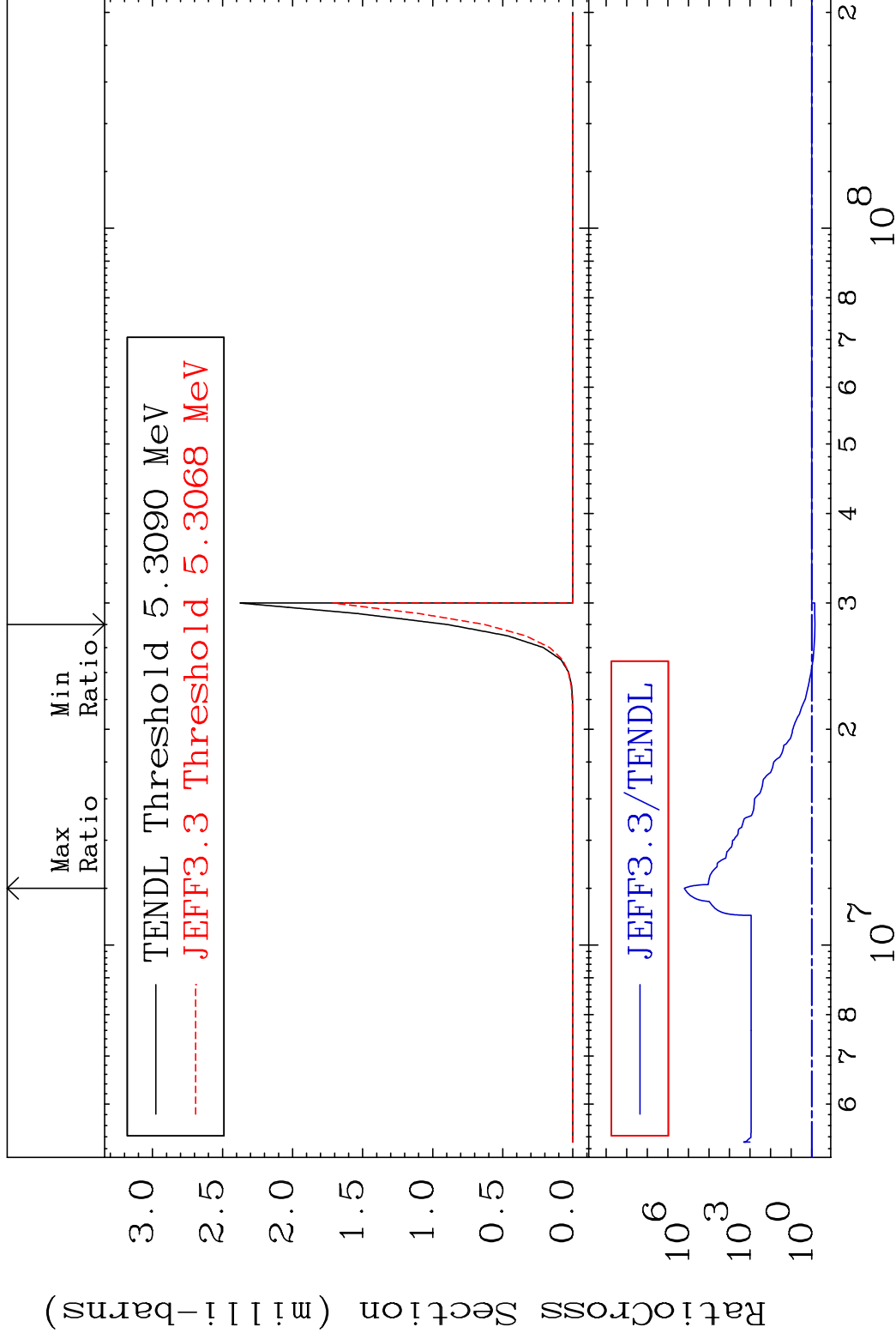
80-Hg-199

MAT 8034

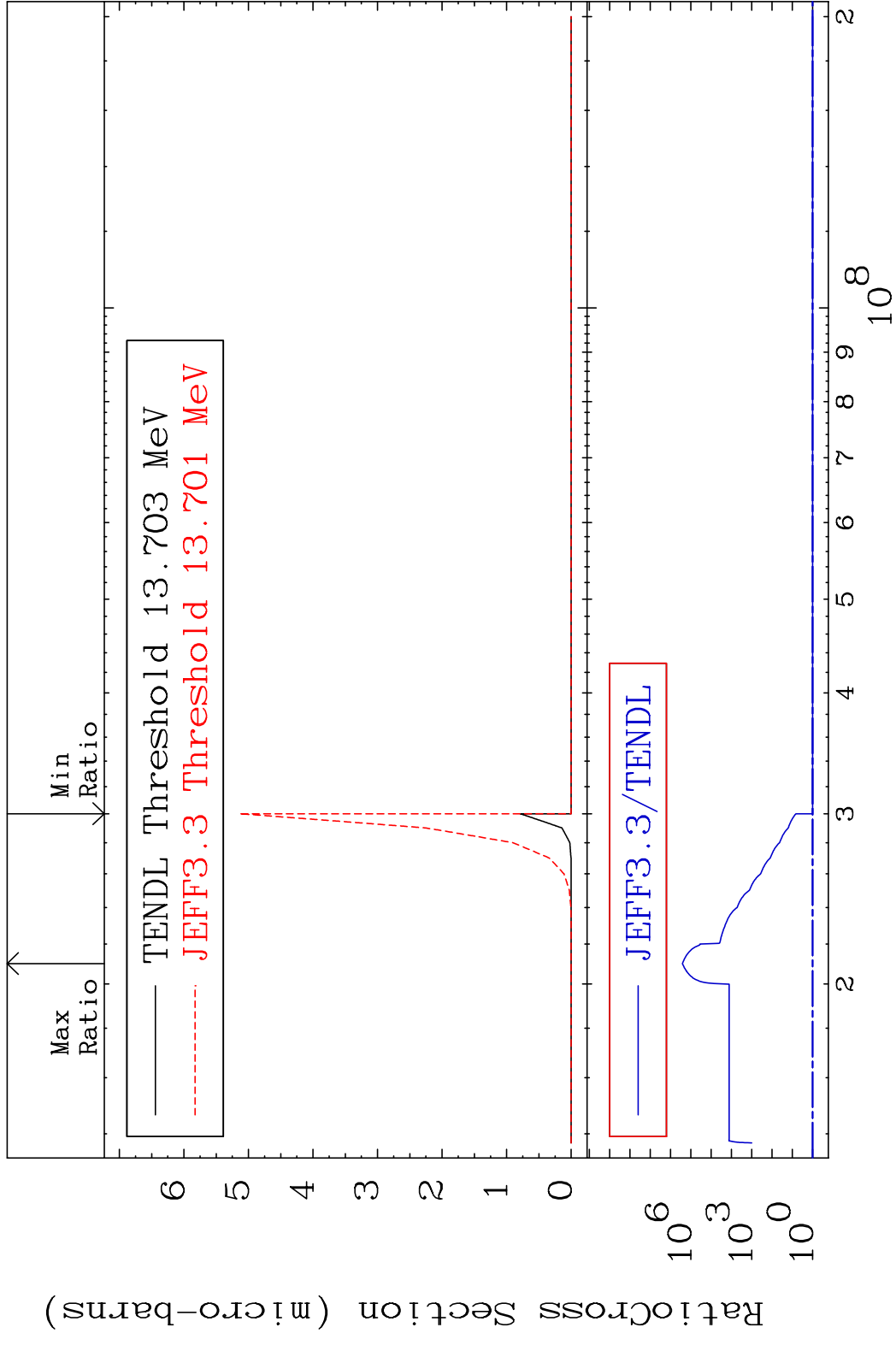
(n,2n) α

80-Hg-199

Cross Section -29.73 To 9999. %

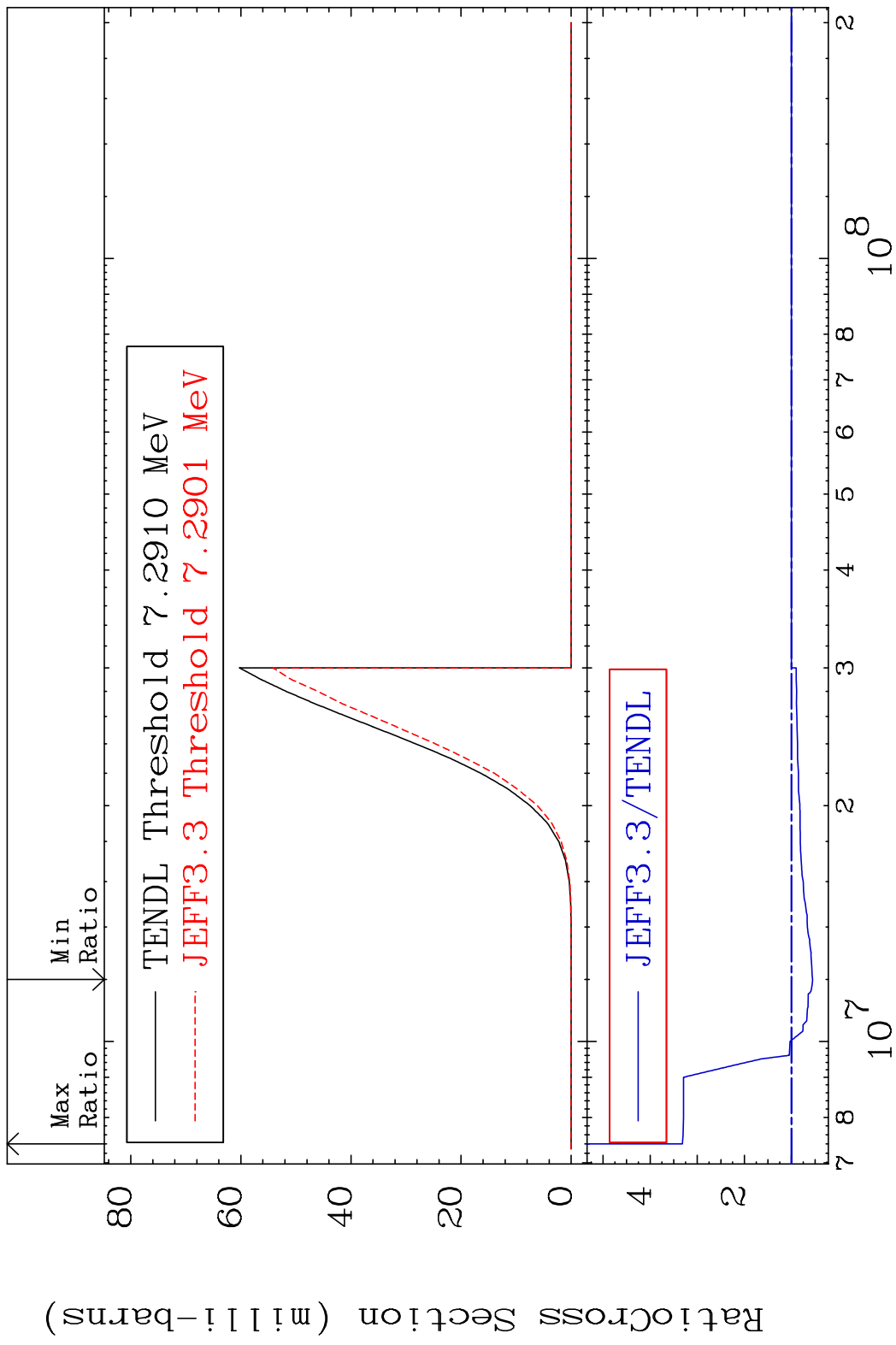


MAT 8034 (n,3n) α 80-Hg-199
 Cross Section 0.000 To 9999. %



10 Incident Energy (eV) 80-Hg-199

MAT 8034 (n, n') p 80-Hg-199
 Cross Section -44.69 To 231.7 %



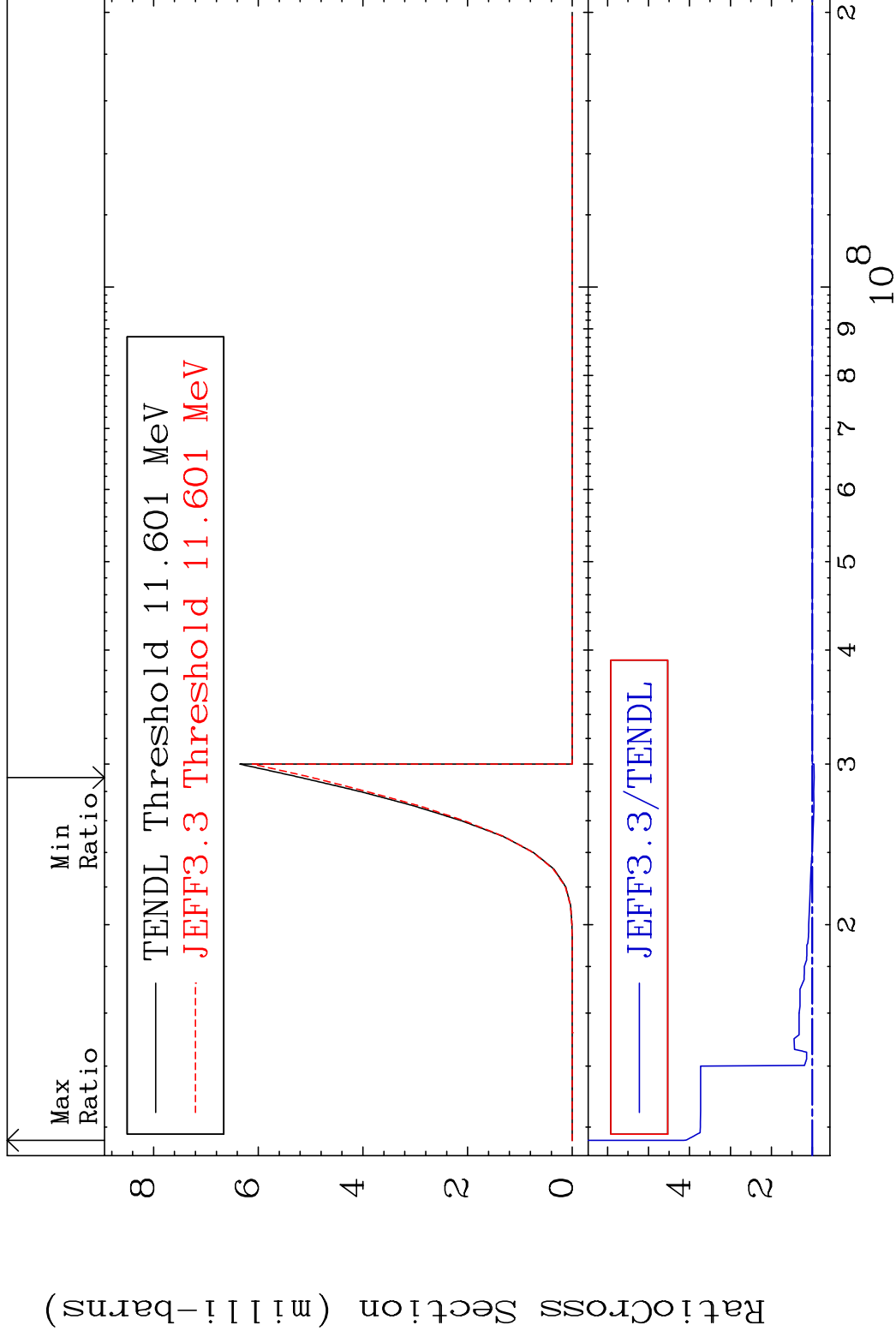
11 80-Hg-199

MAT 8034

(n, n') d

80-Hg-199

Cross Section -4.120 To 314.2 %



12

Incident Energy (eV)

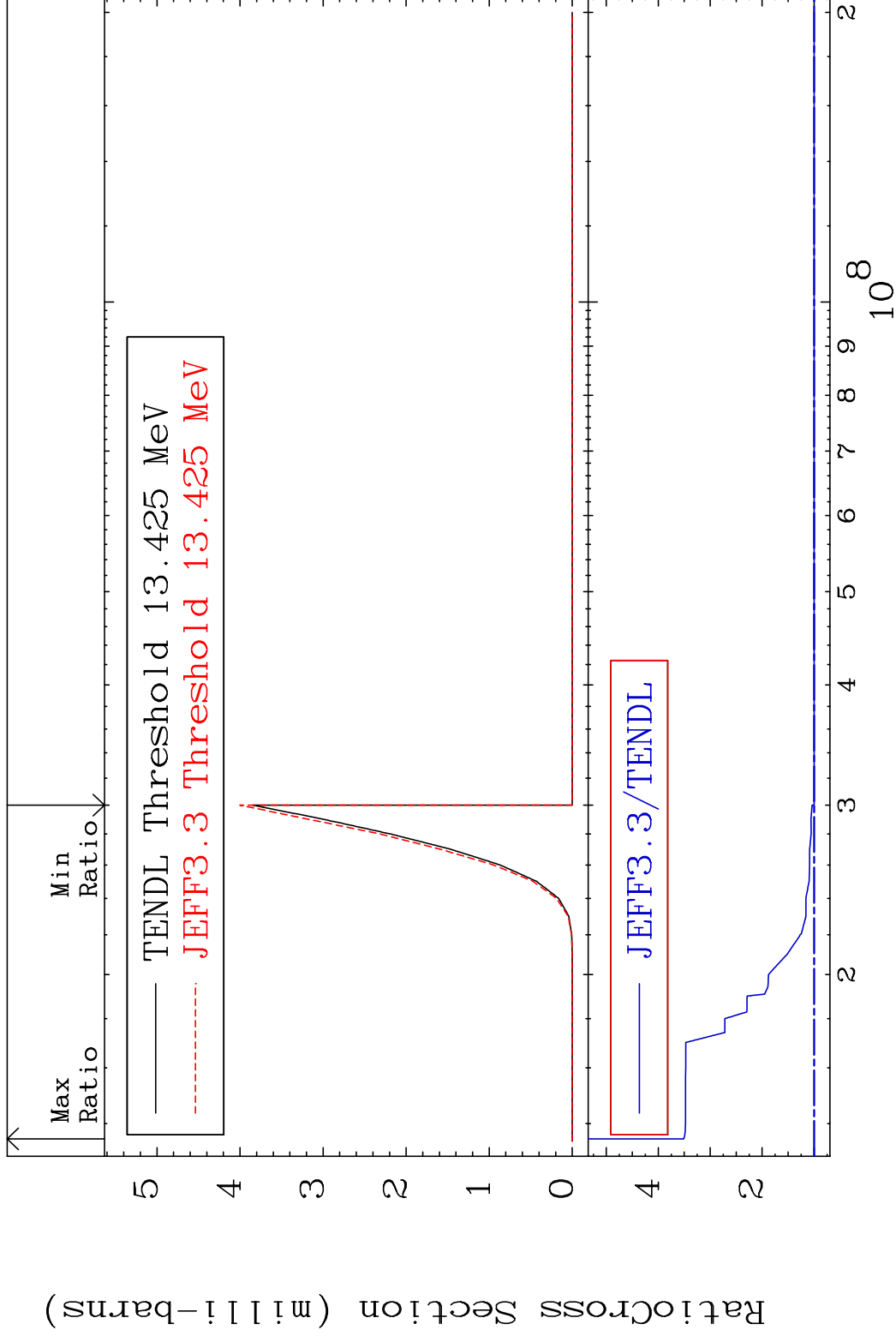
80-Hg-199

MAT 8034

(n, n') t

80-Hg-199

Cross Section 0.000 To 251.1 %

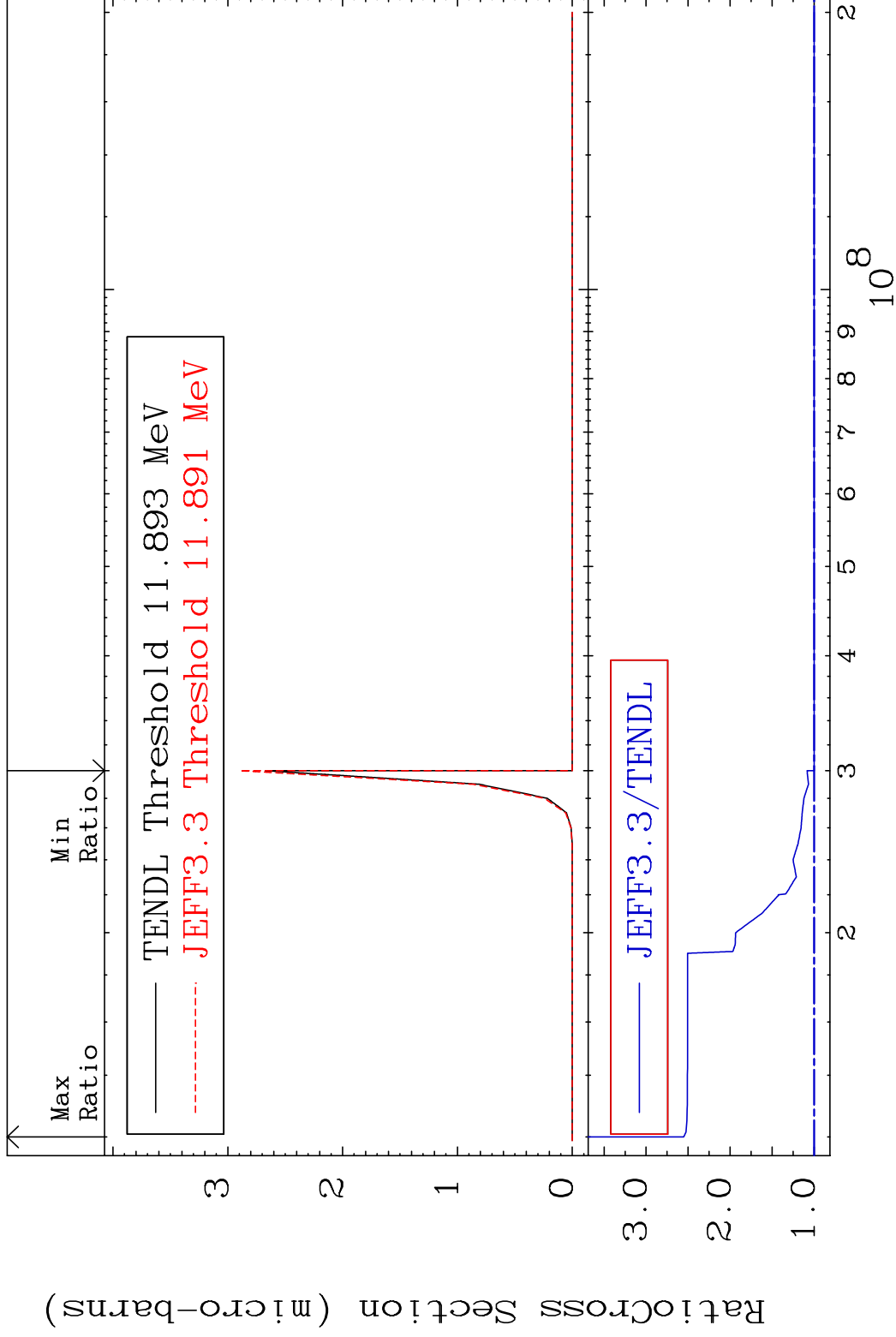


MAT 8034

(n,n') He-3

80-Hg-199

Cross Section 0.000 To 155.3 %

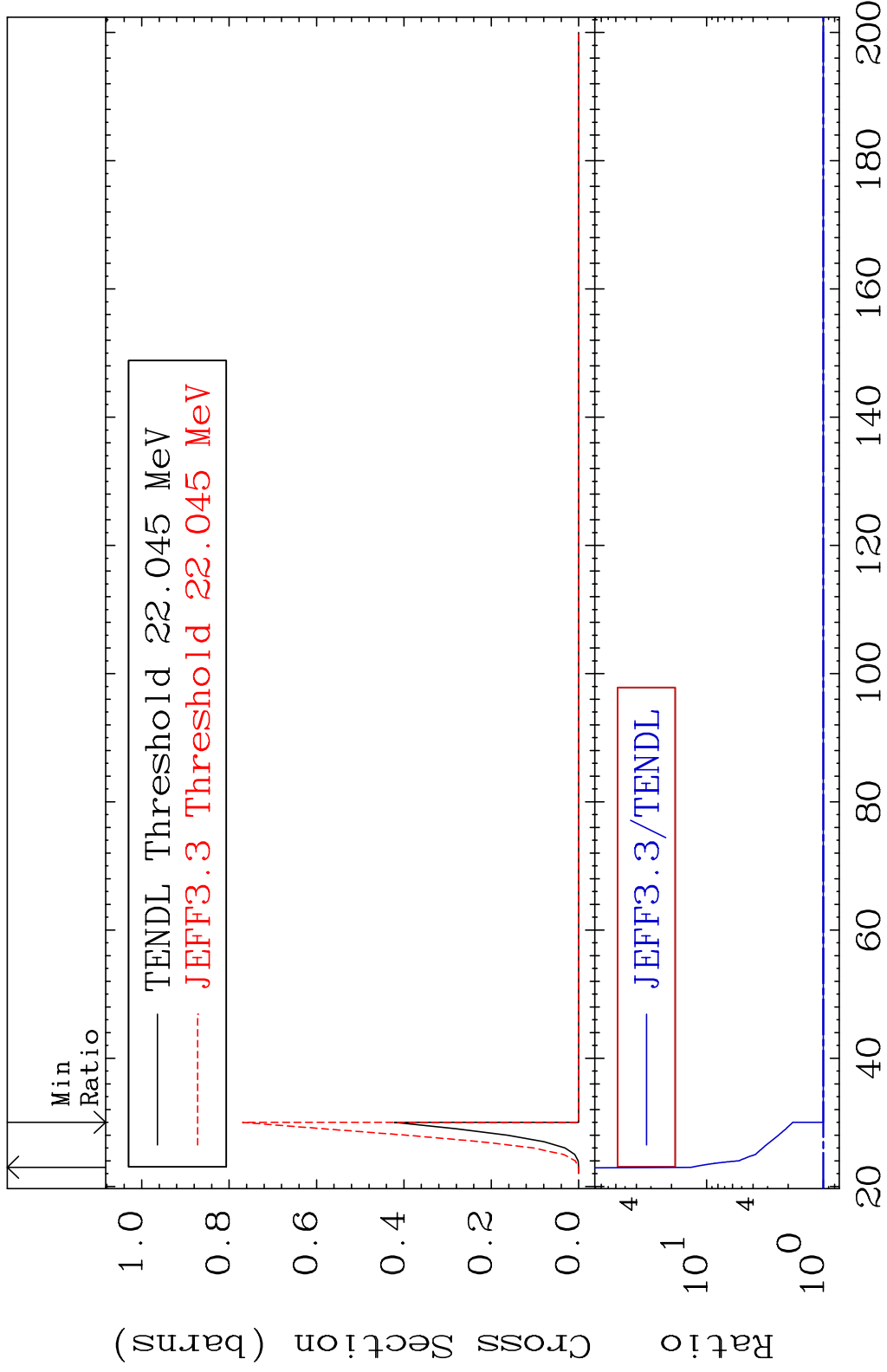


MAT 8034

(n,4n)

80-Hg-199

Cross Section 0.000 To 1253. %



15

Incident Energy (MeV)

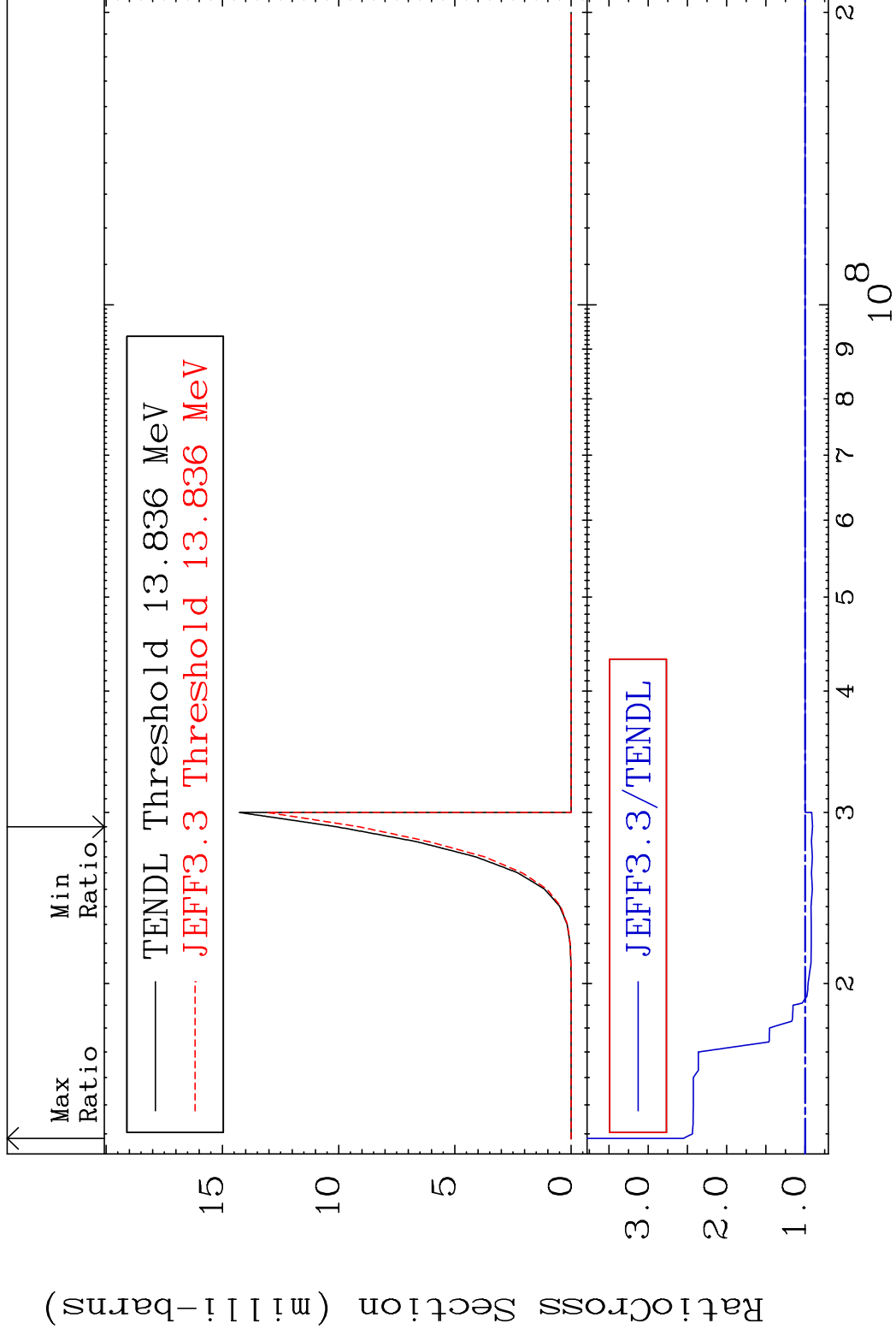
80-Hg-199

MAT 8034

(n,2n) p

80-Hg-199

Cross Section -9.512 To 156.5 %

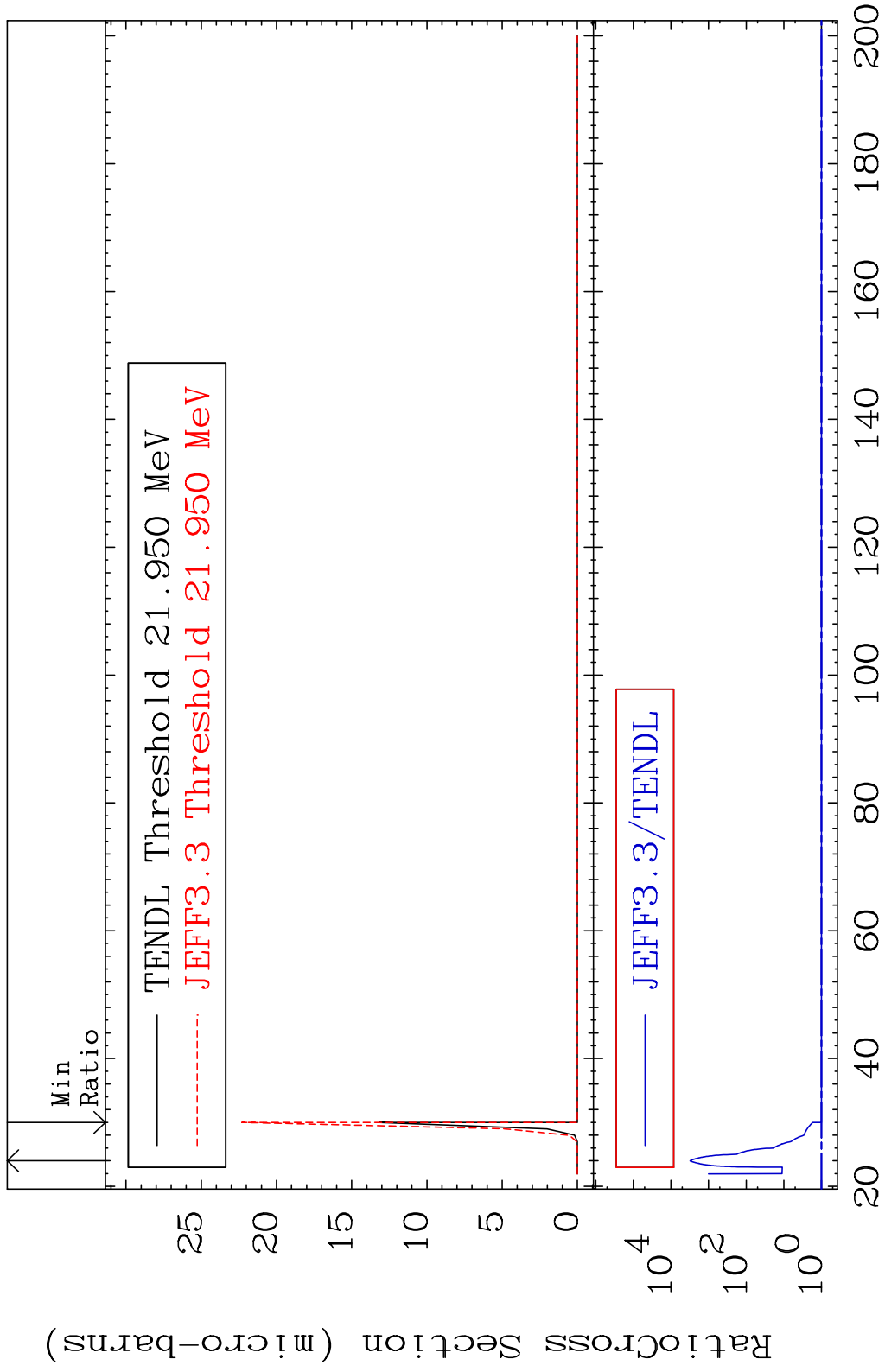


MAT 8034

(n,3n) p

80-Hg-199

Cross Section 0.000 To 9999. %



MAT 8034

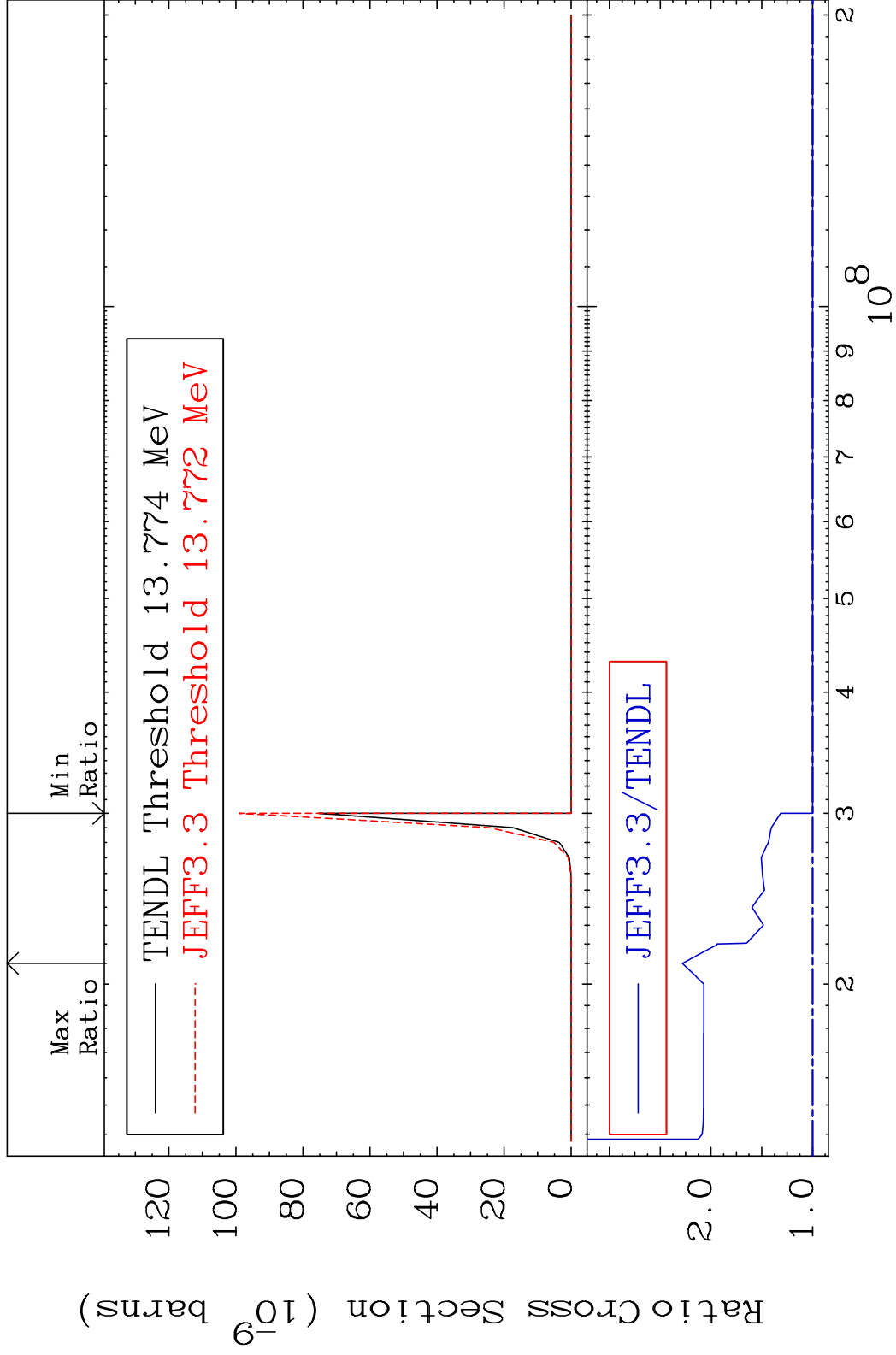
(n,2n) p

80-Hg-199

Cross Section

0.000

To 128.2 %

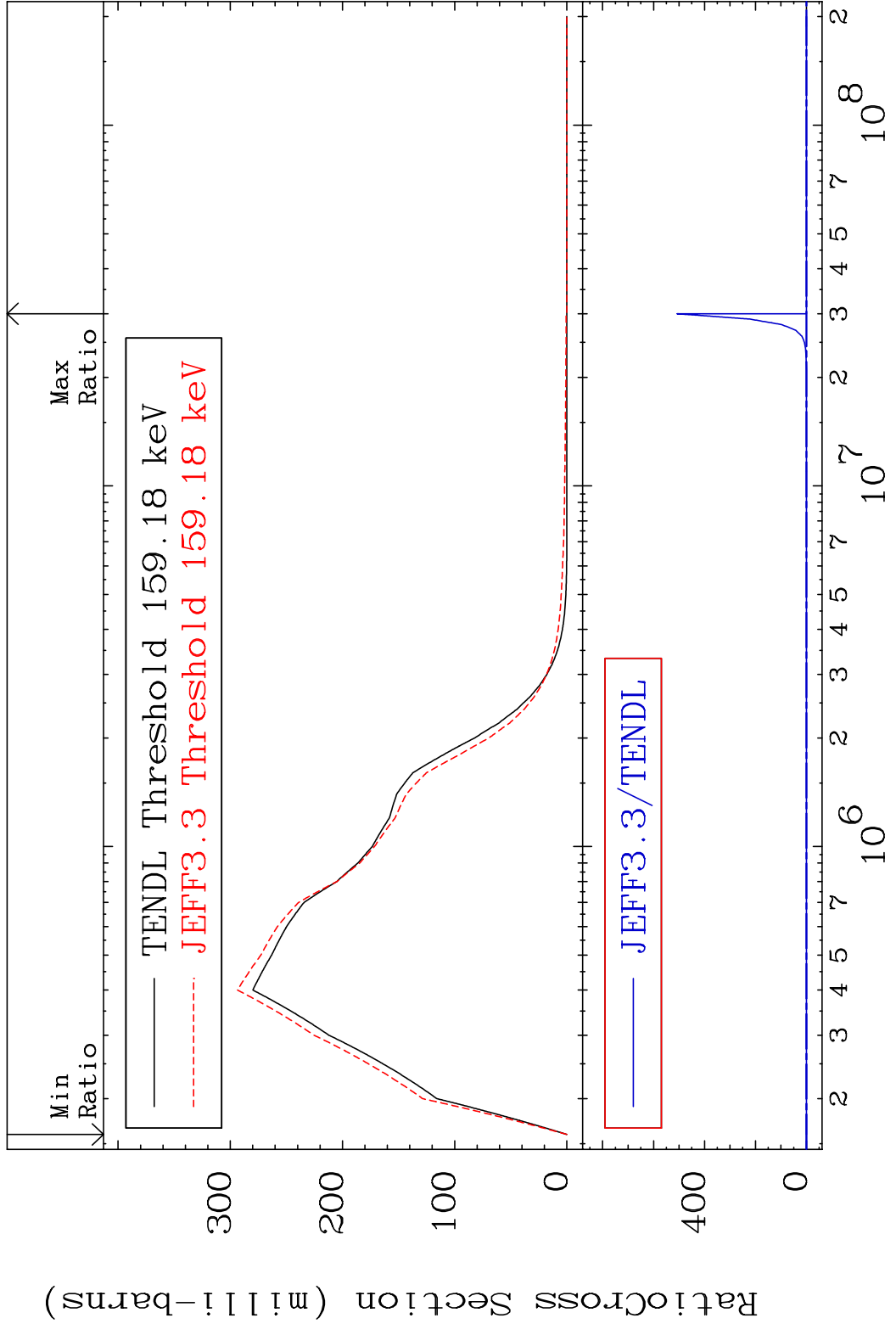


18

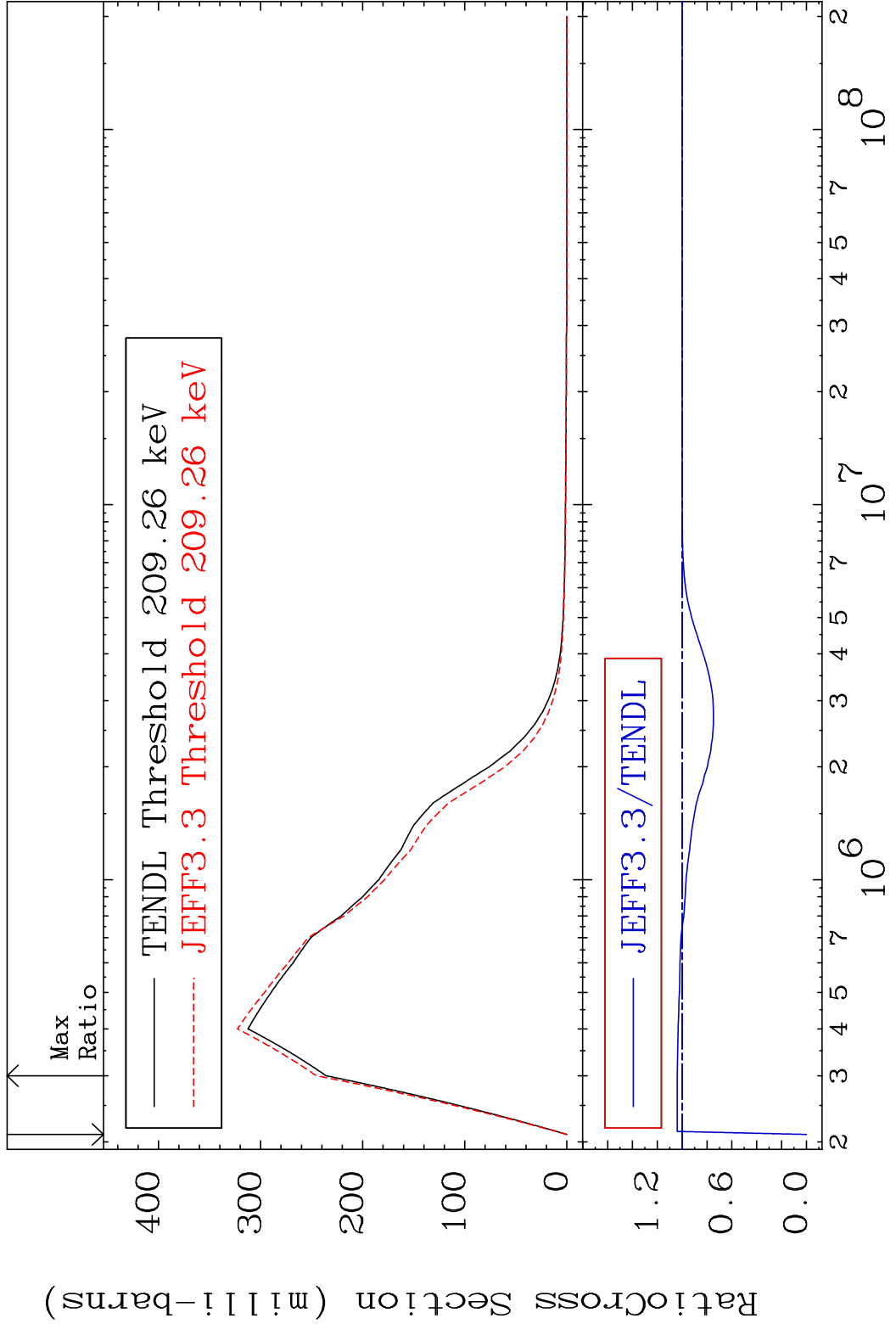
Incident Energy (eV)

80-Hg-199

MAT 8034 MT= 51 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 9999. %

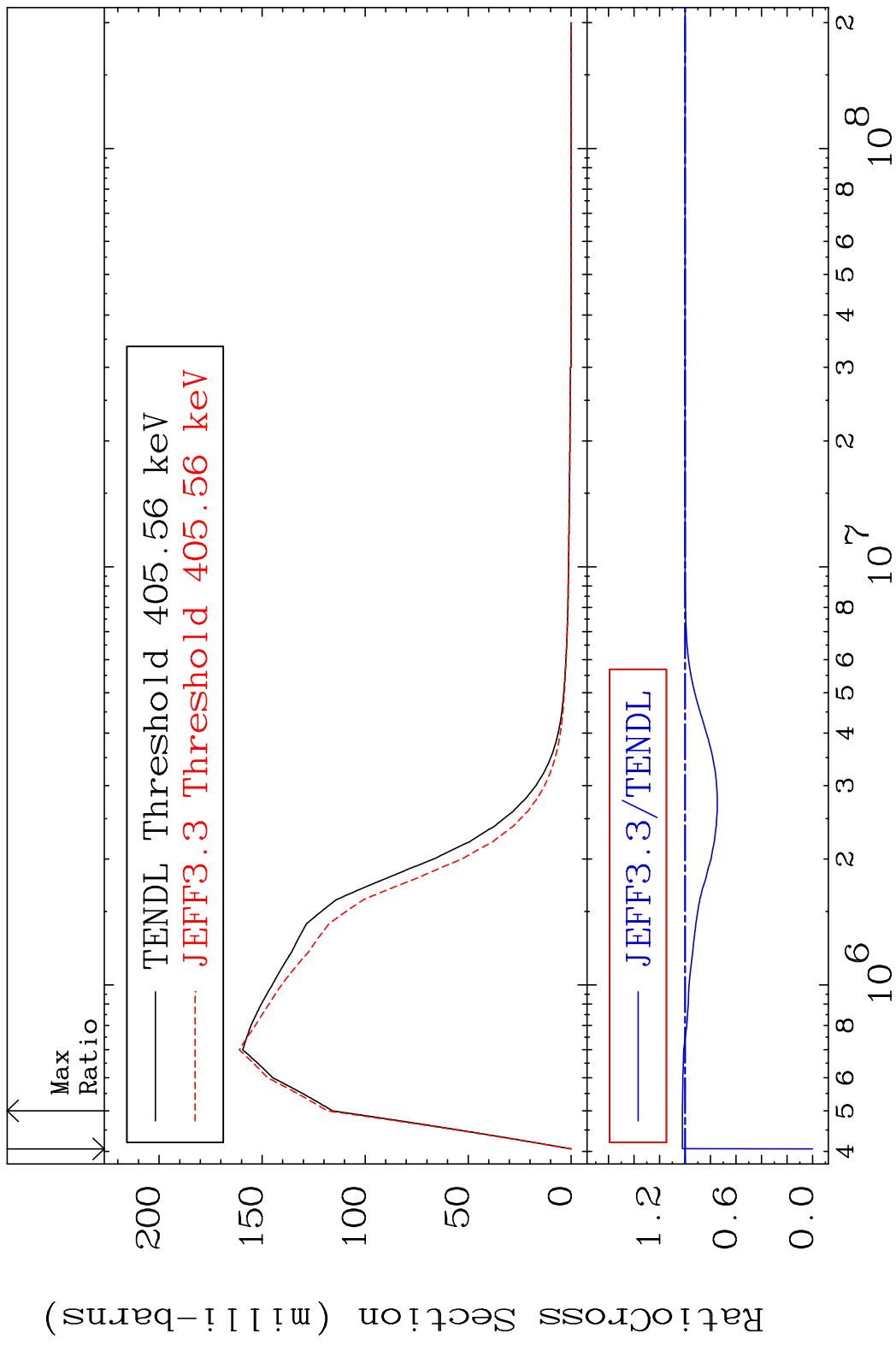


MAT 8034 MT= 52 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 4.020 %

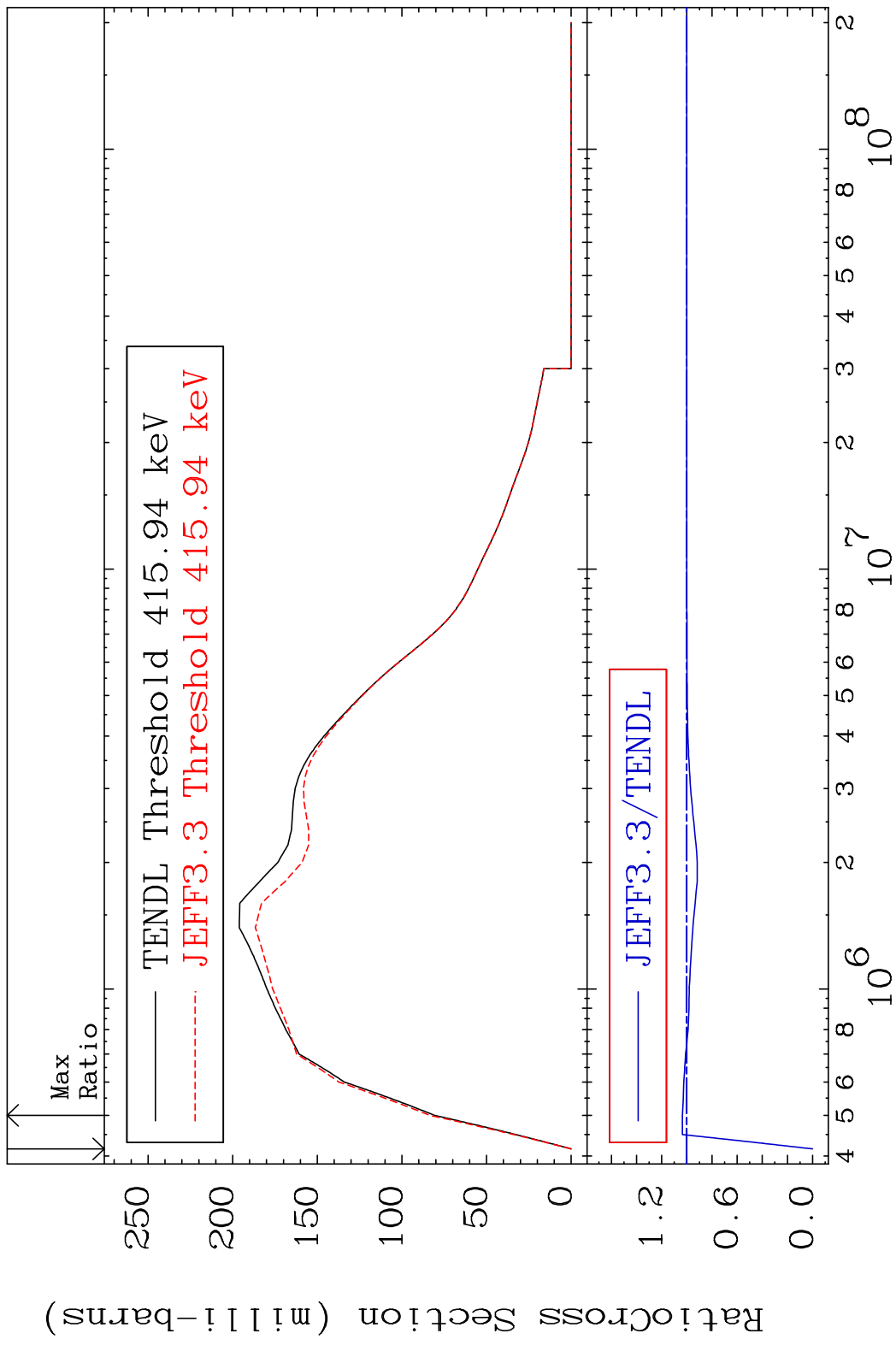


20 Incident Energy (eV) 80-Hg-199

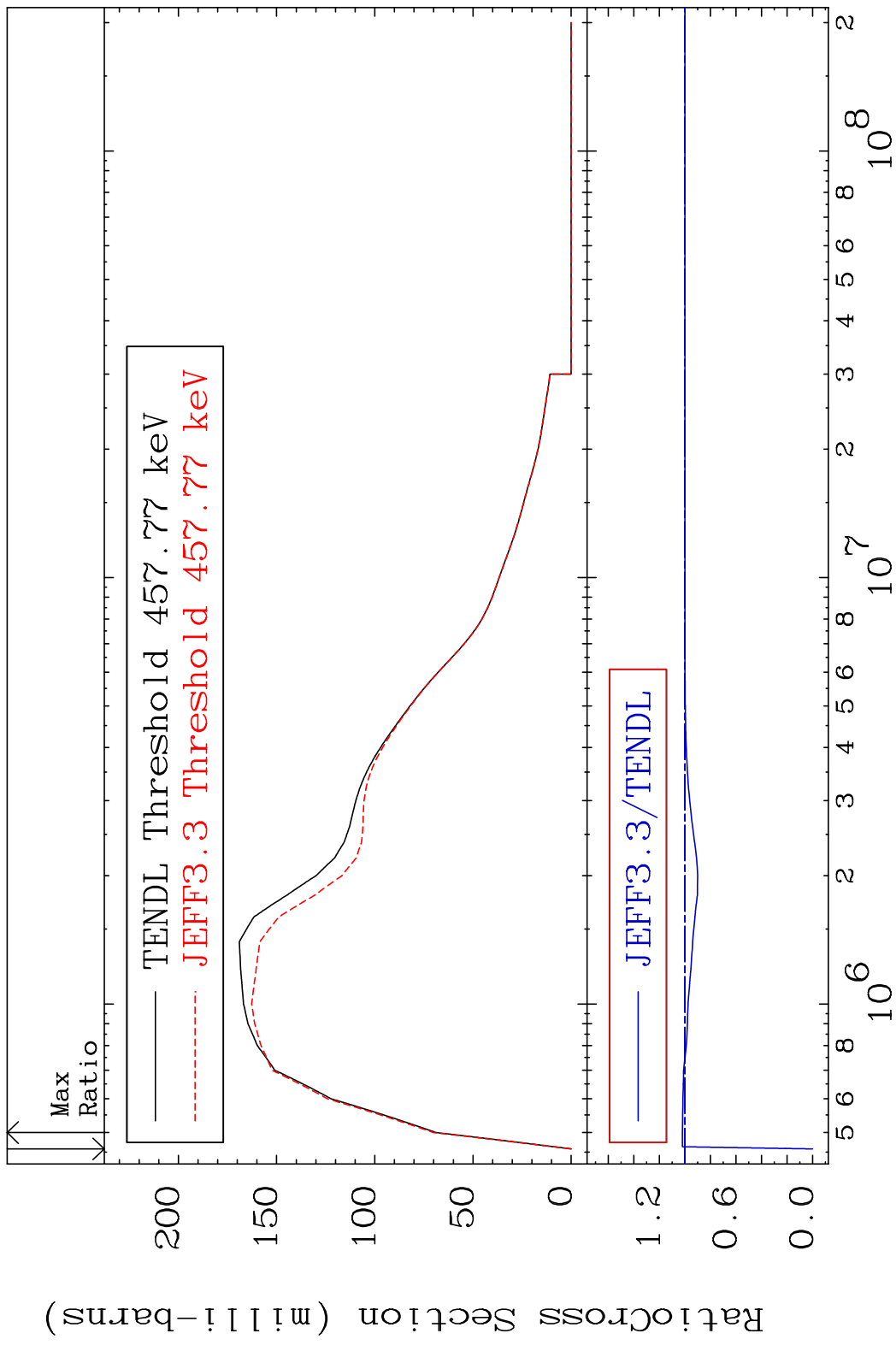
MAT 8034 MT= 53 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 2.111 %



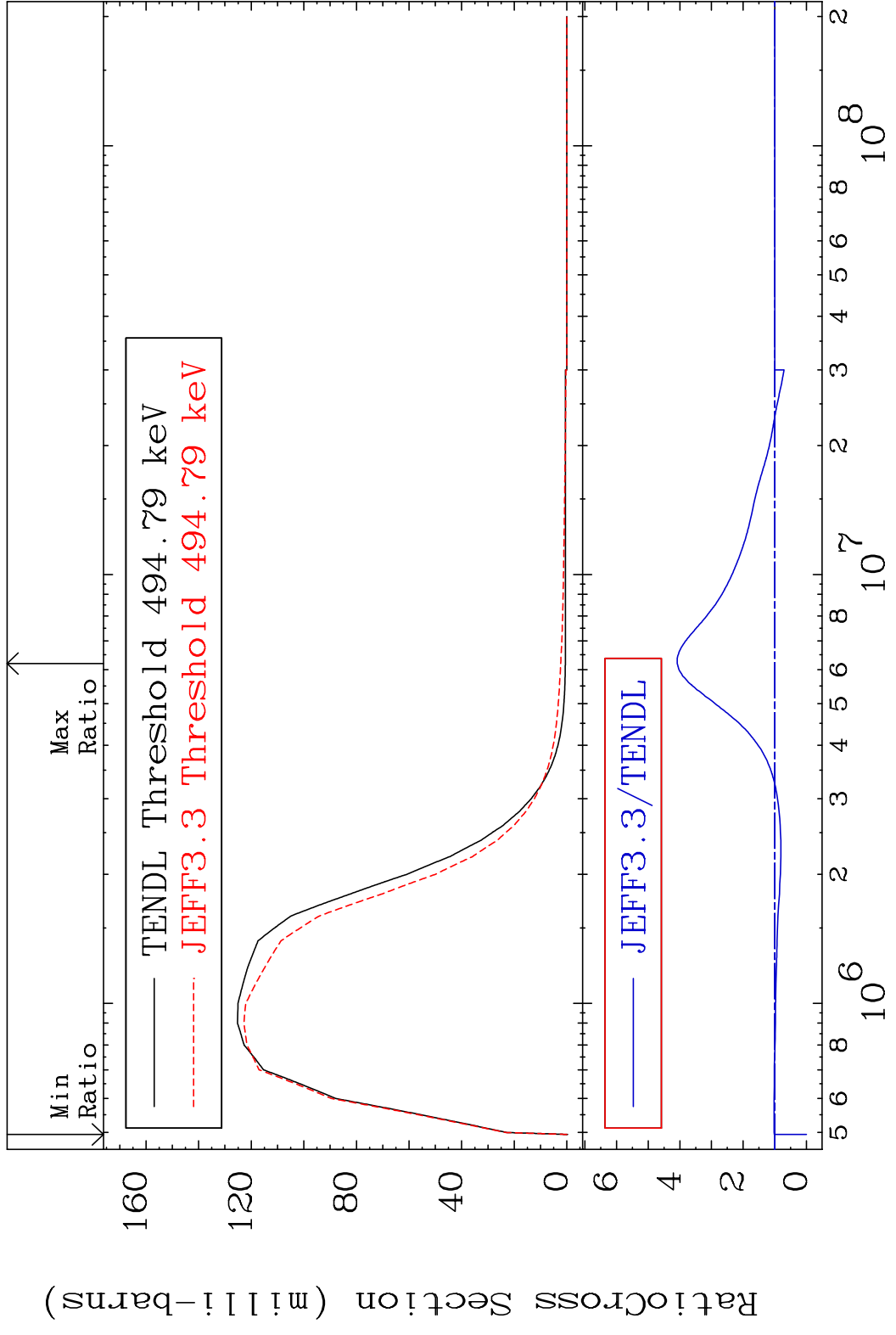
MAT 8034 MT= 54 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 3.554 %



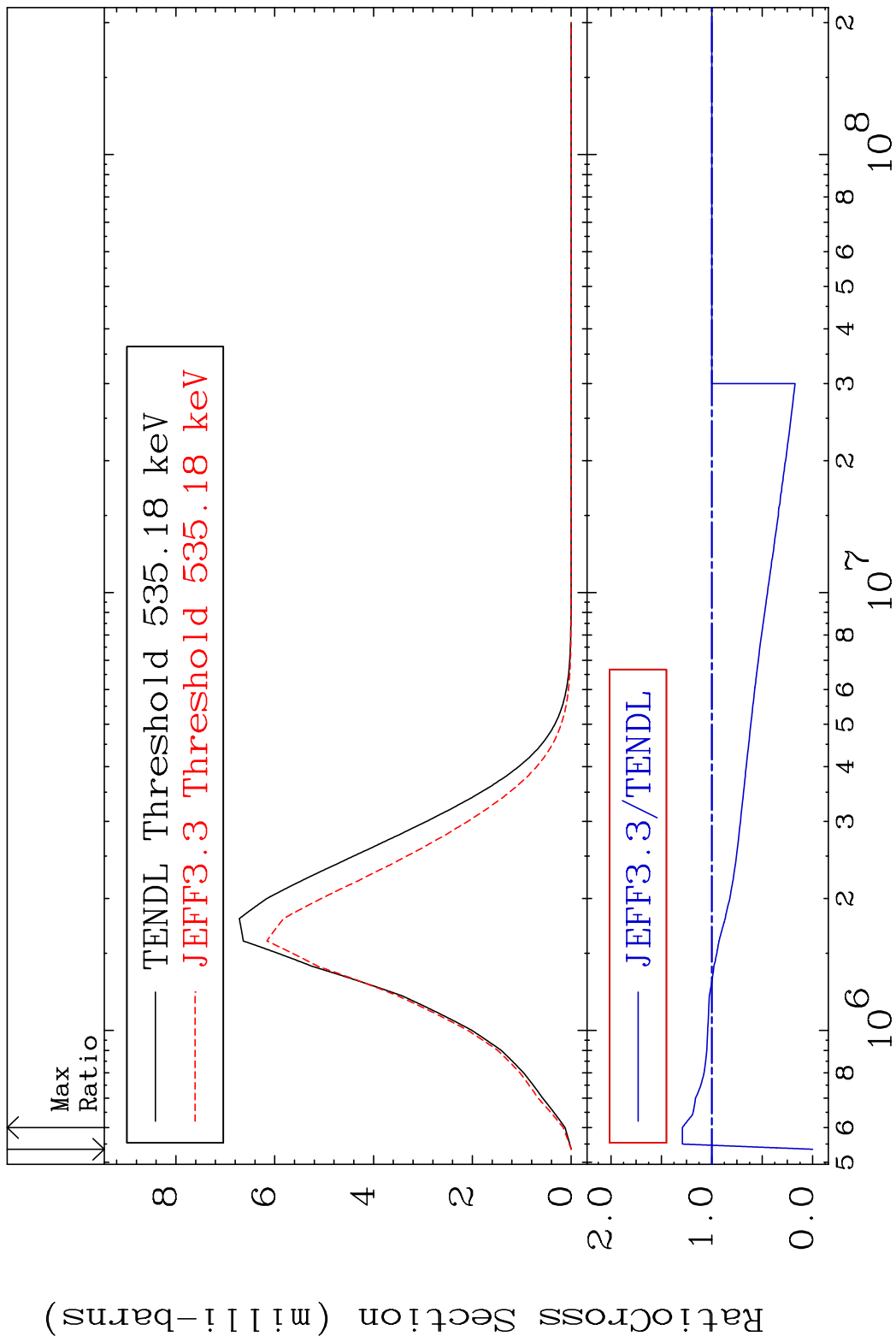
MAT 8034 MT= 55 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 1.943 %



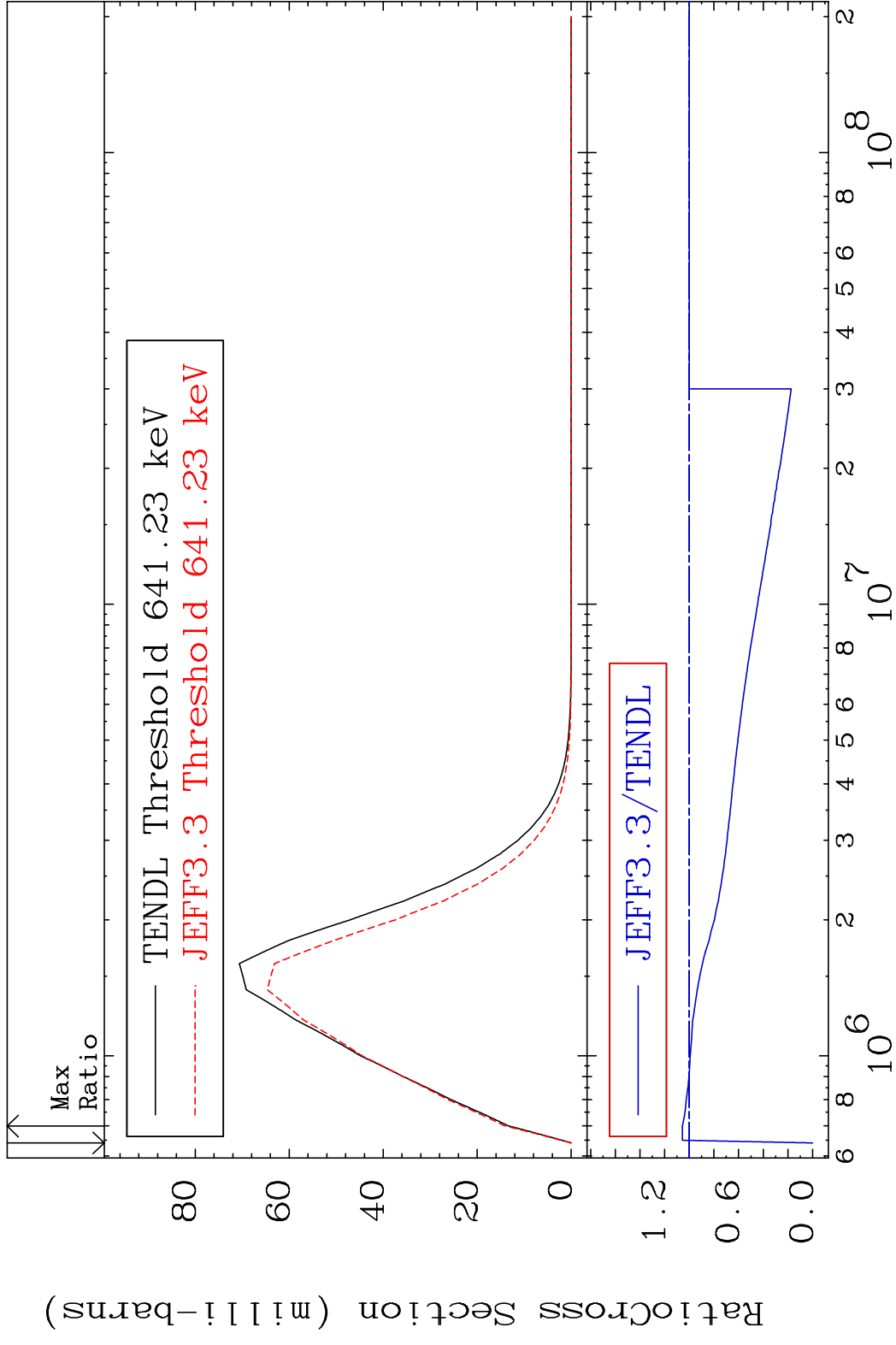
MAT 8034 MT= 56 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 308.5 %



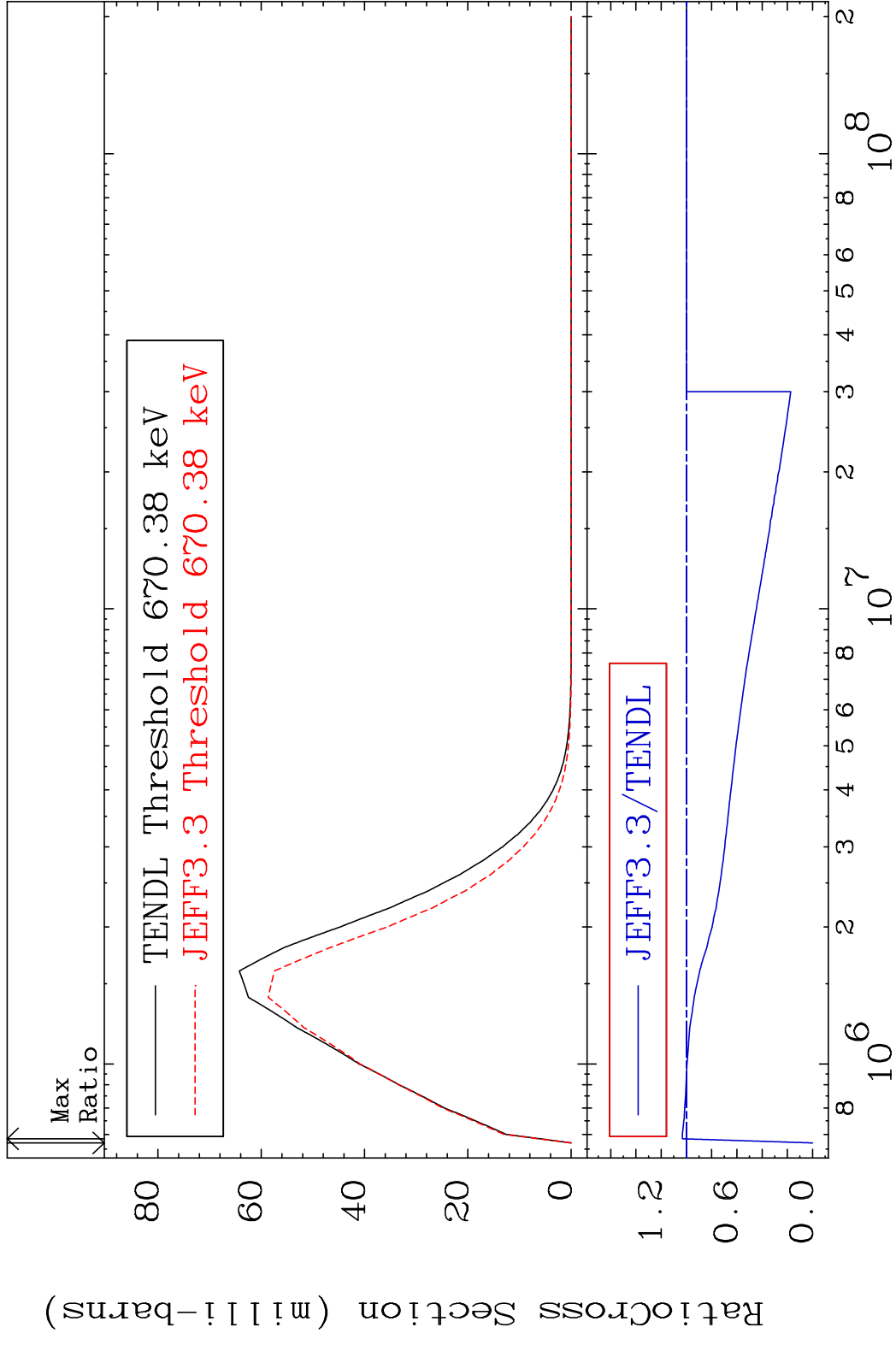
MAT 8034 MT= 57 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 29.16 %



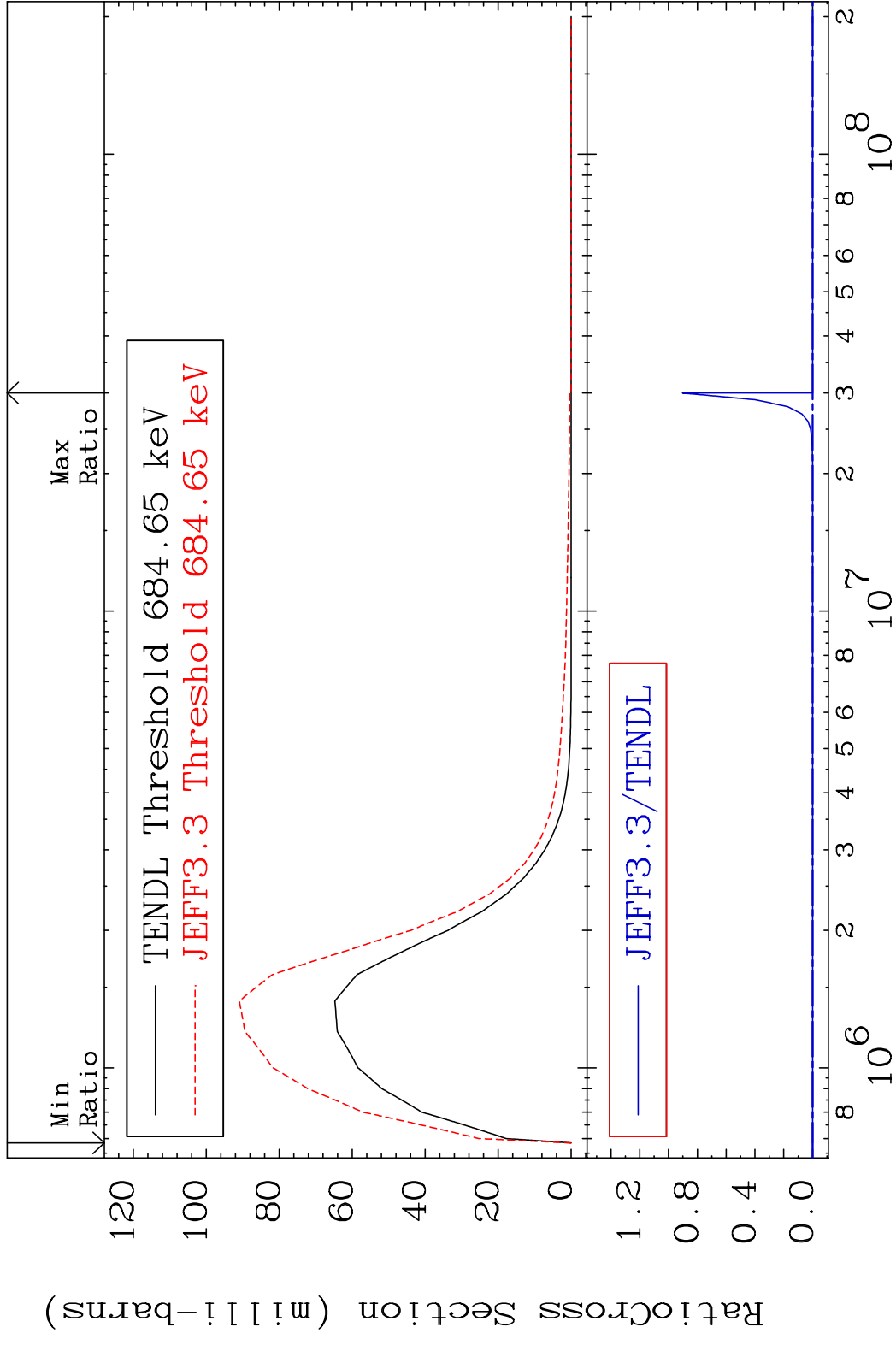
MAT 8034 MT= 58 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 5.625 %



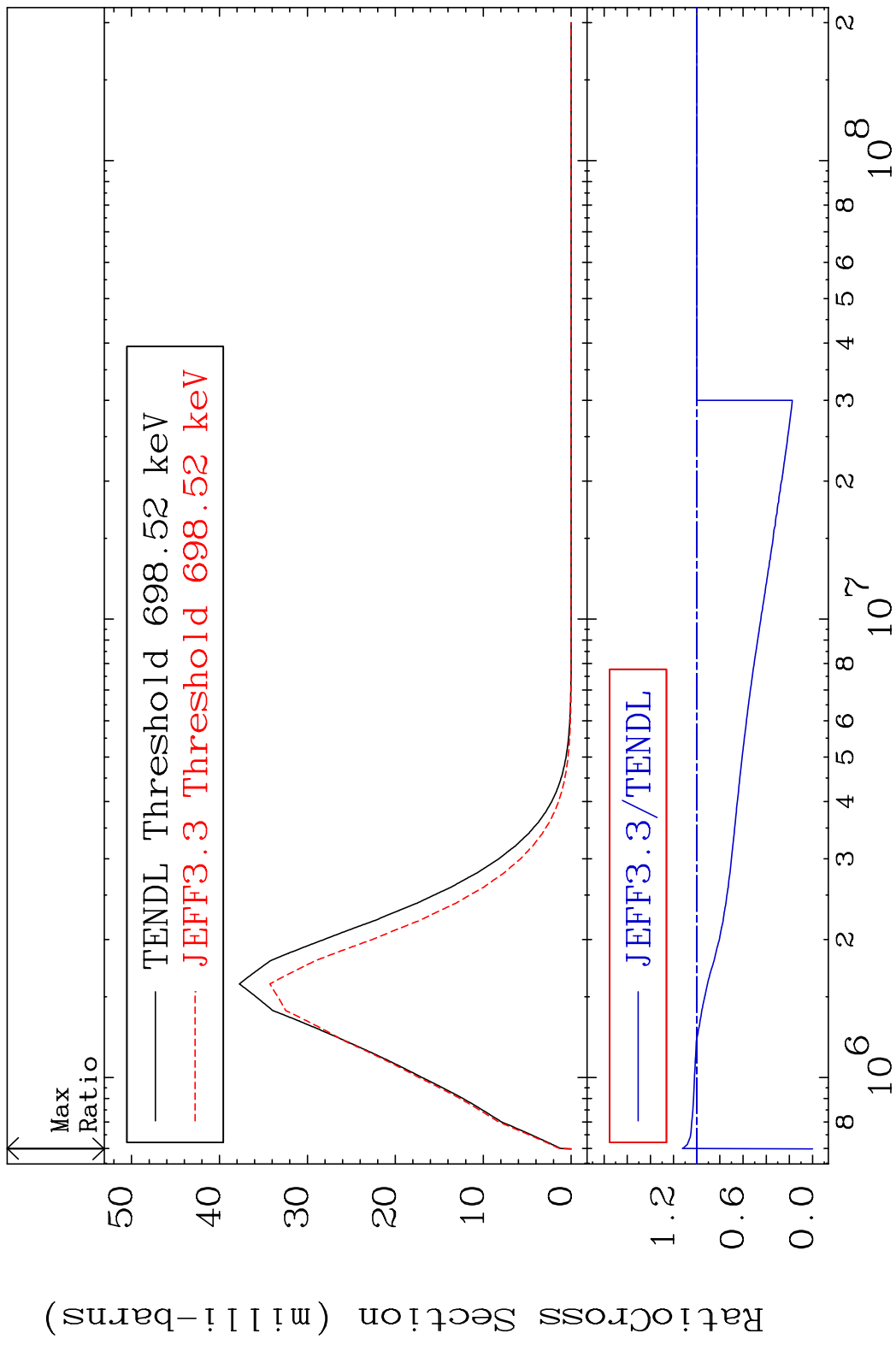
MAT 8034 MT= 59 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 3.224 %



MAT 8034 MT= 60 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 9999. %

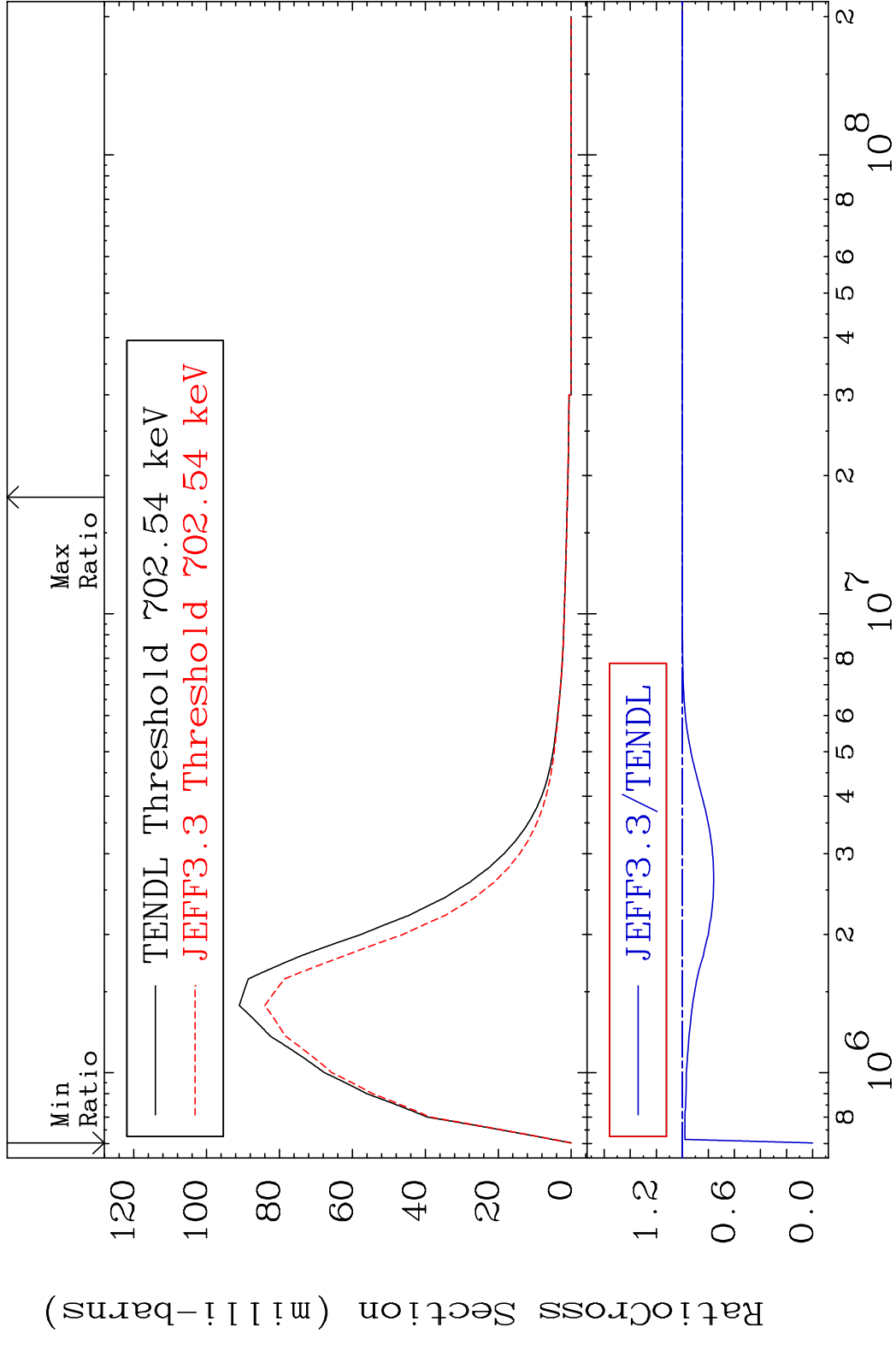


MAT 8034 MT= 61 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 12.41 %



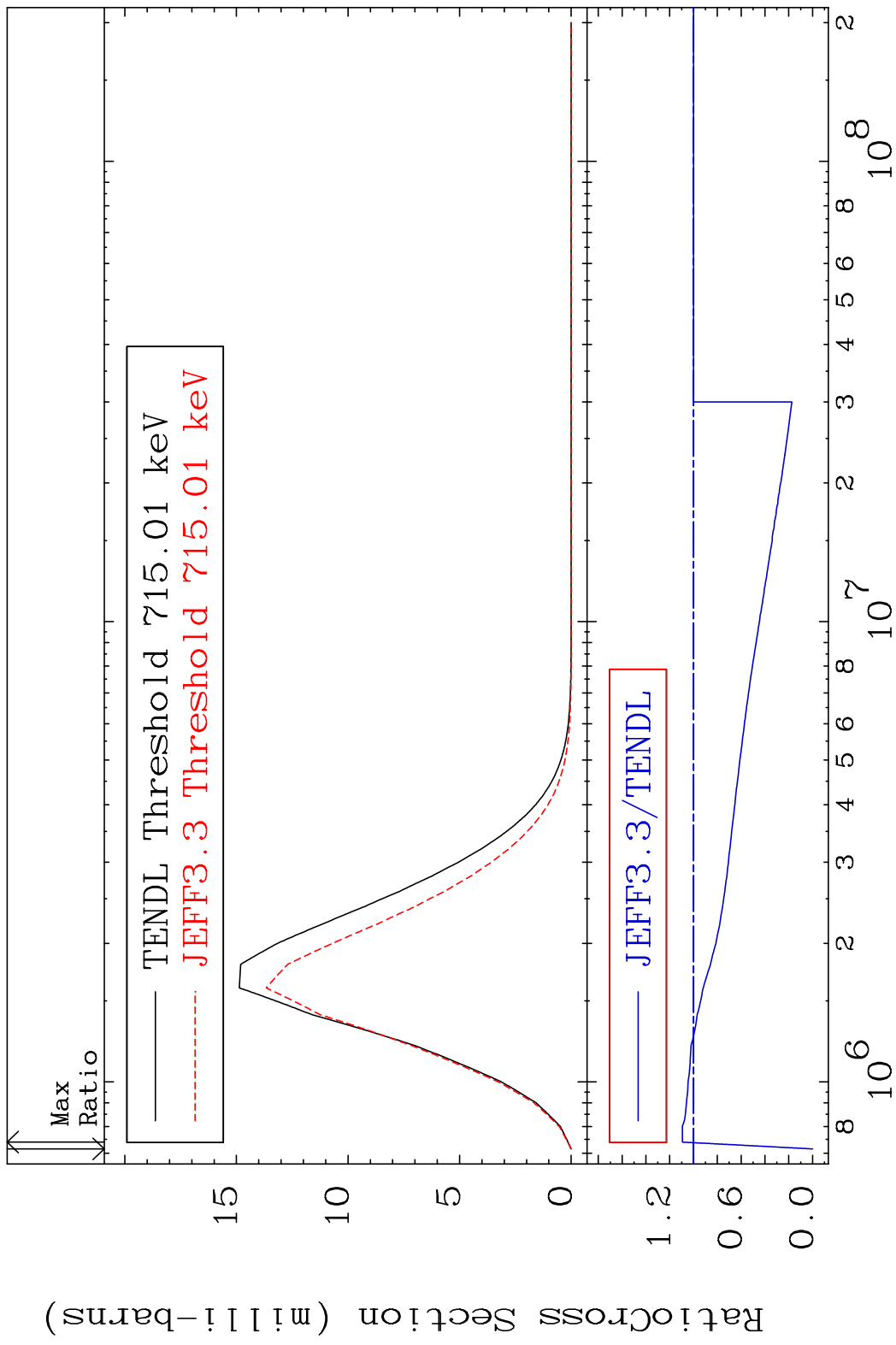
29 Incident Energy (eV) 80-Hg-199

MAT 8034 MT= 62 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 0.000 %

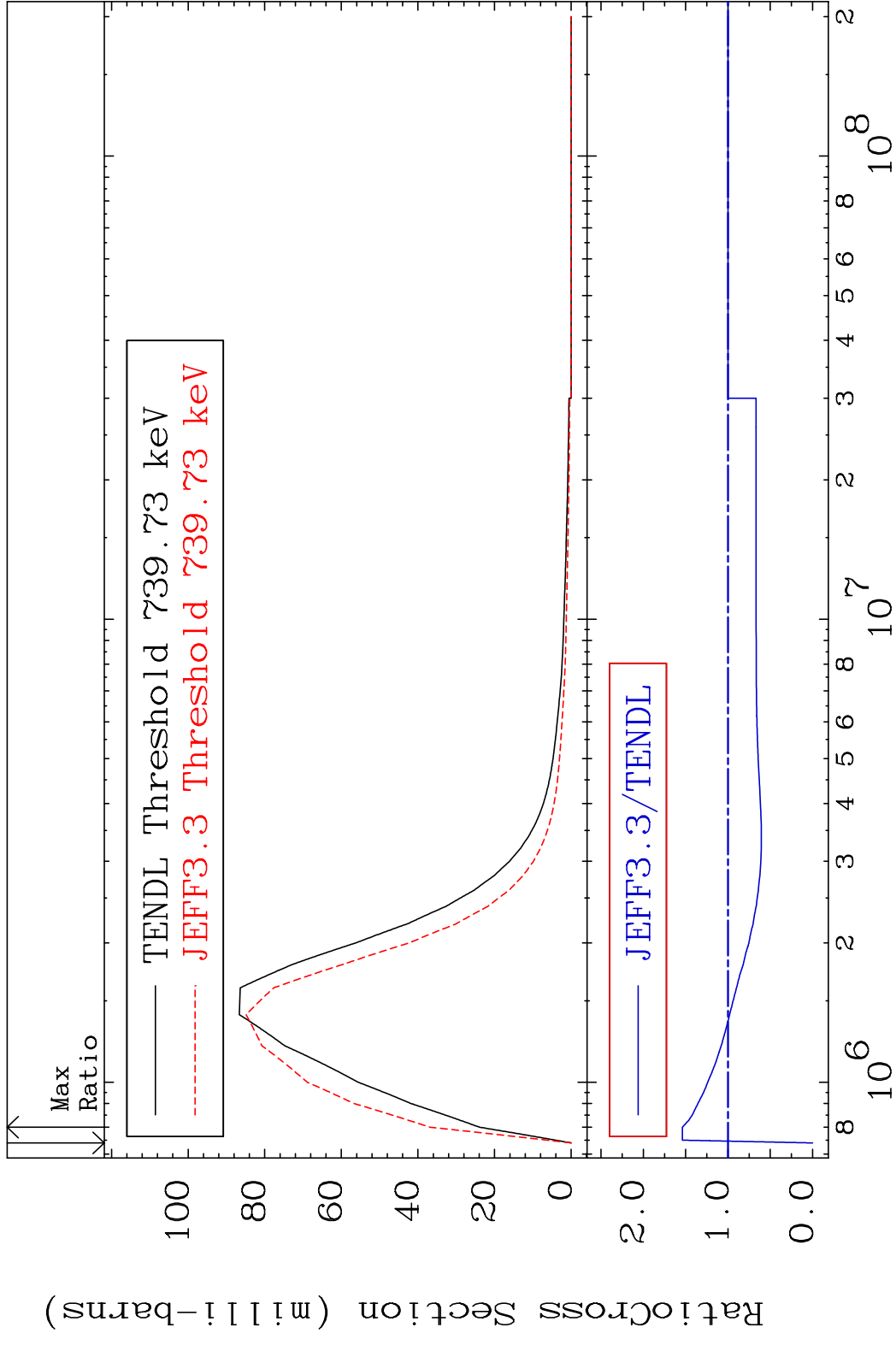


30 Incident Energy (eV) 80-Hg-199

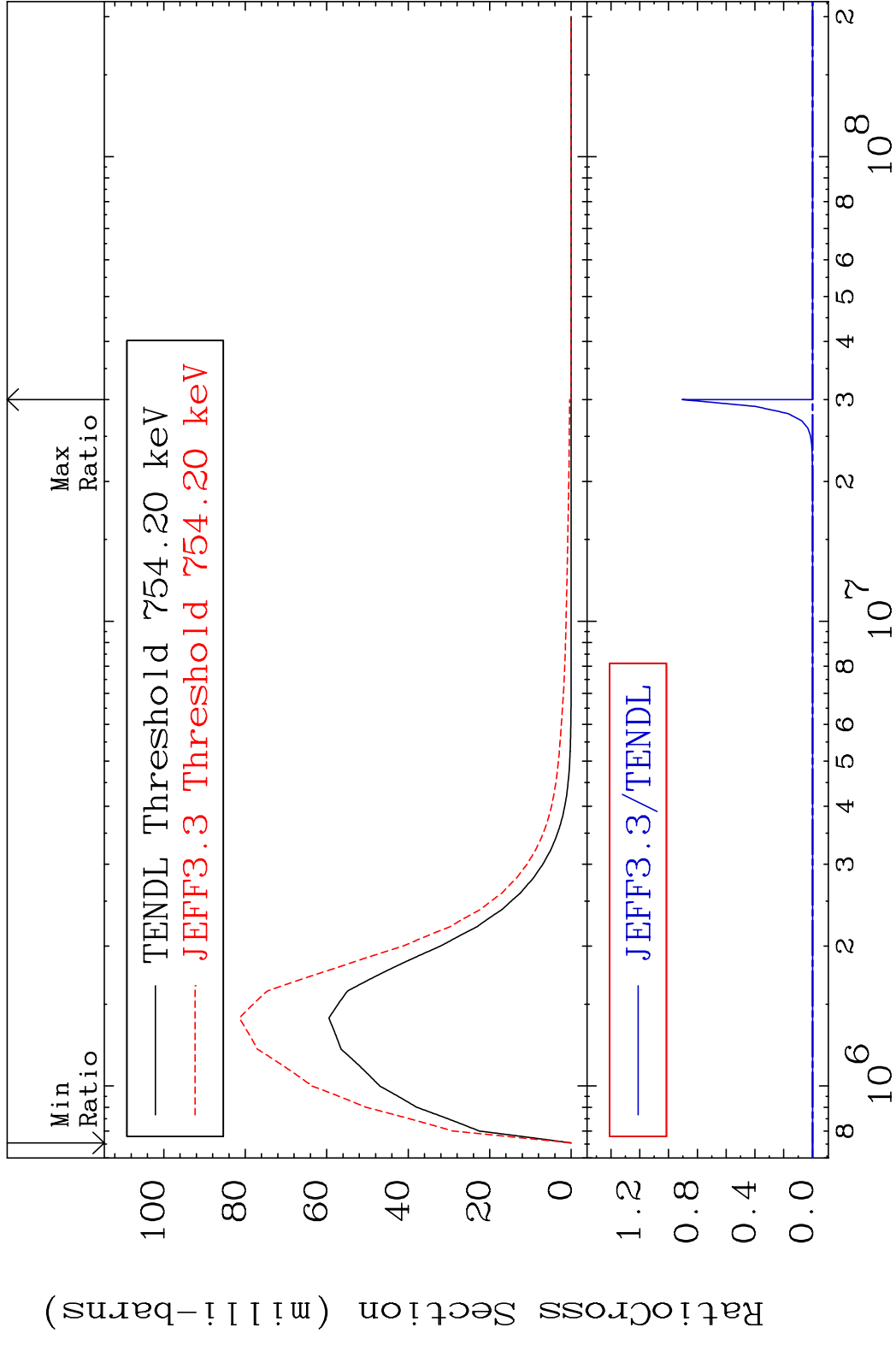
MAT 8034 MT= 63 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 9.393 %



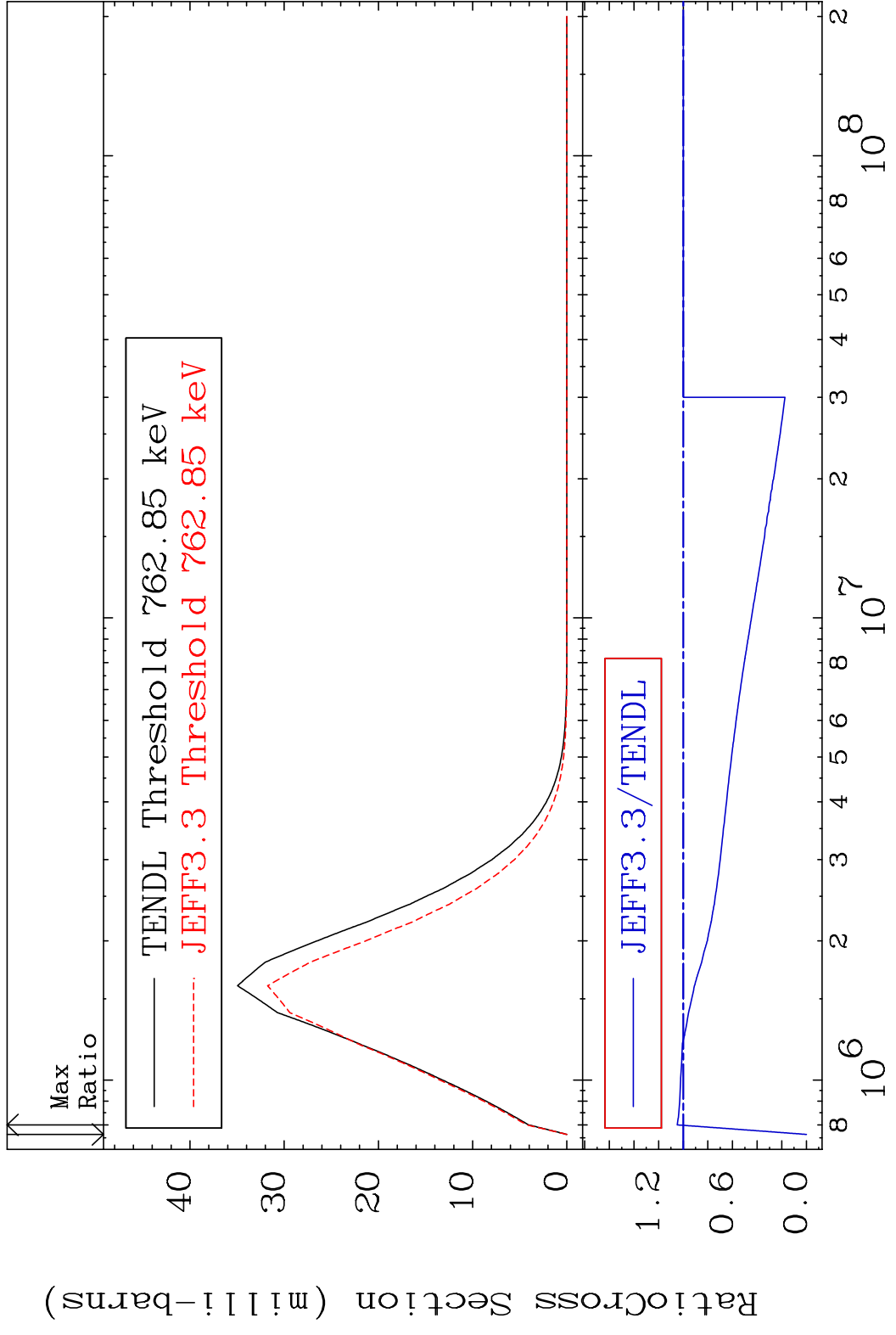
MAT 8034 MT= 64 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 53.91 %



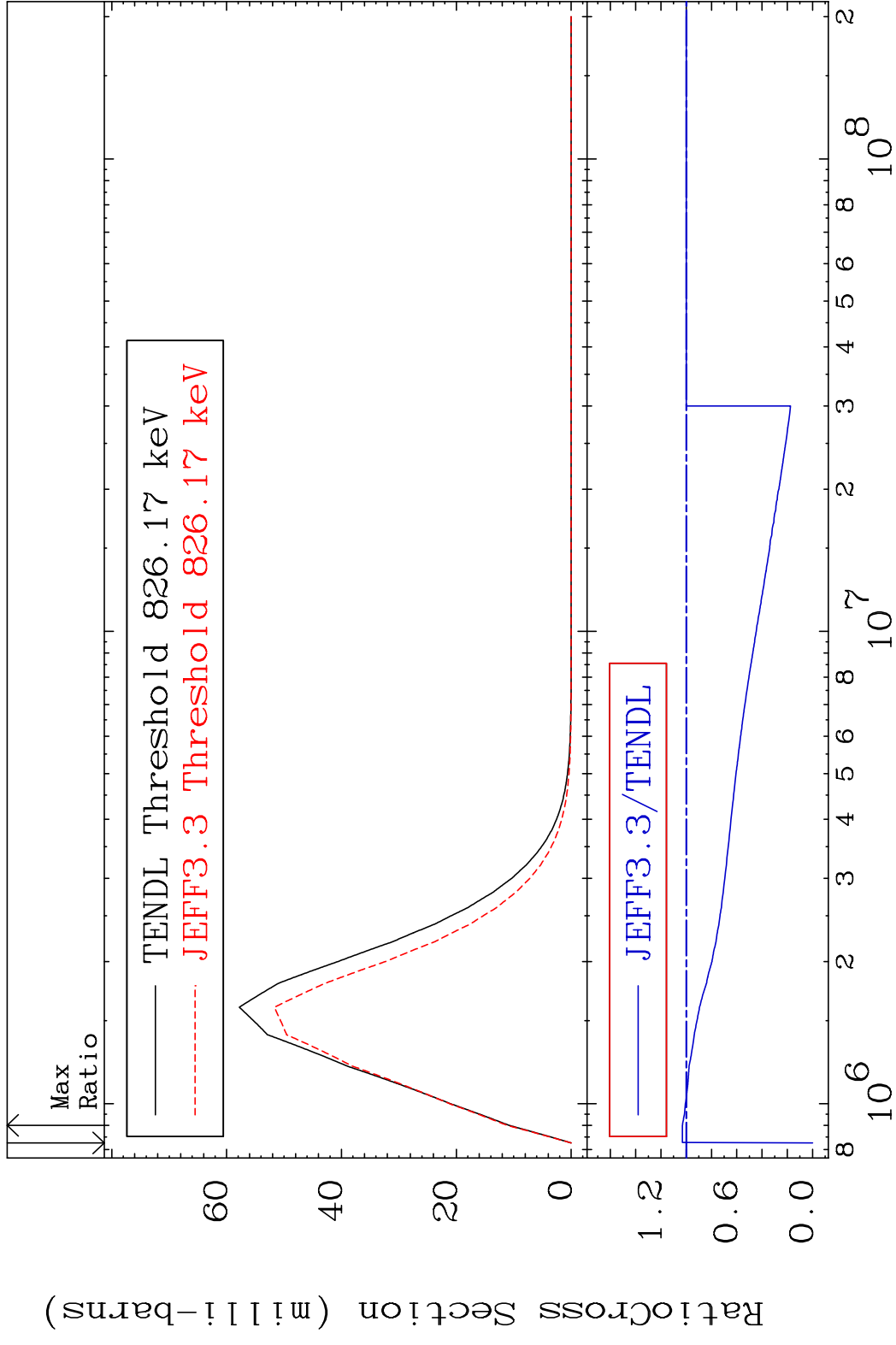
MAT 8034 MT= 65 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 9999. %



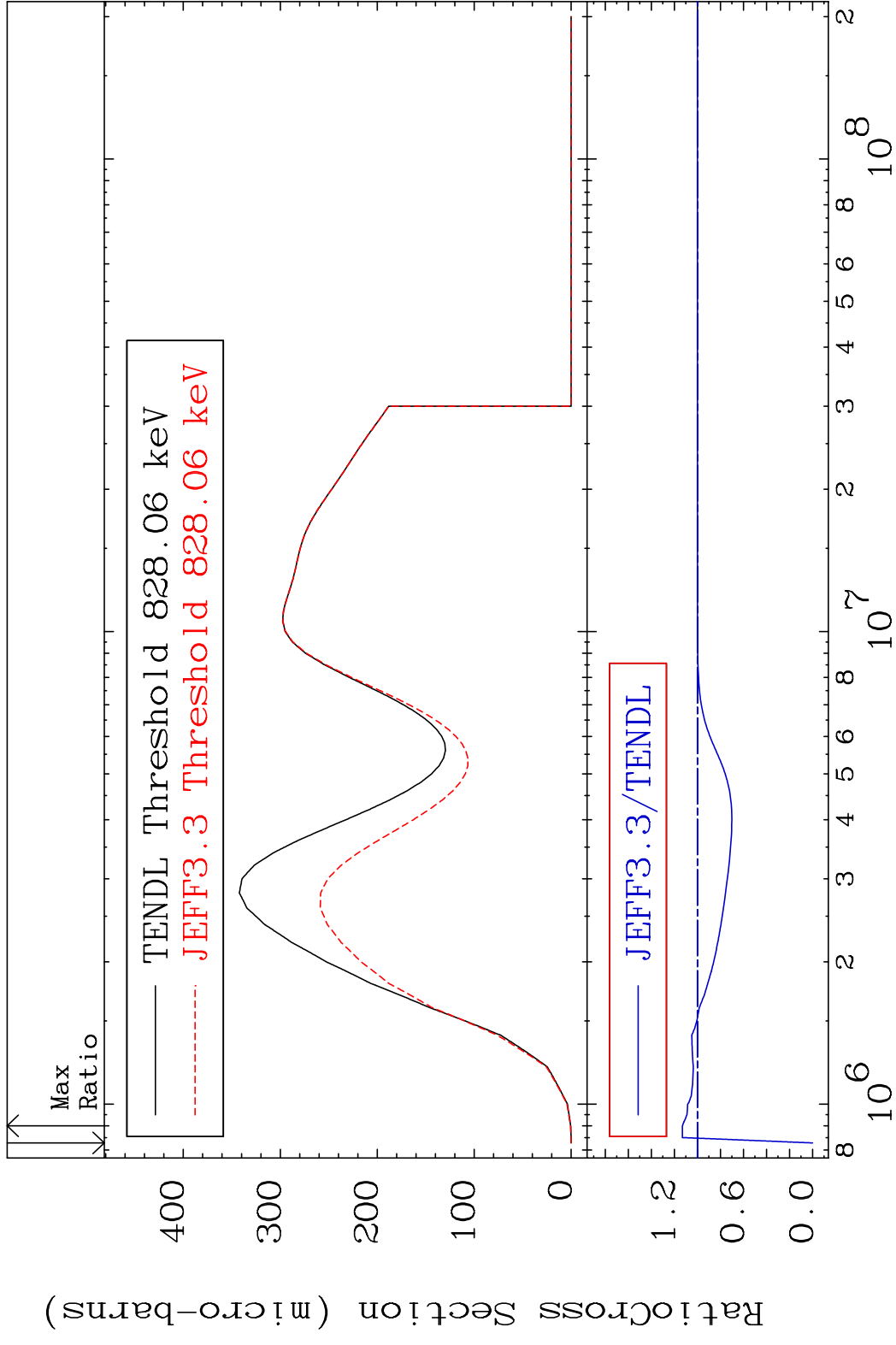
MAT 8034 MT= 66 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 4.924 %



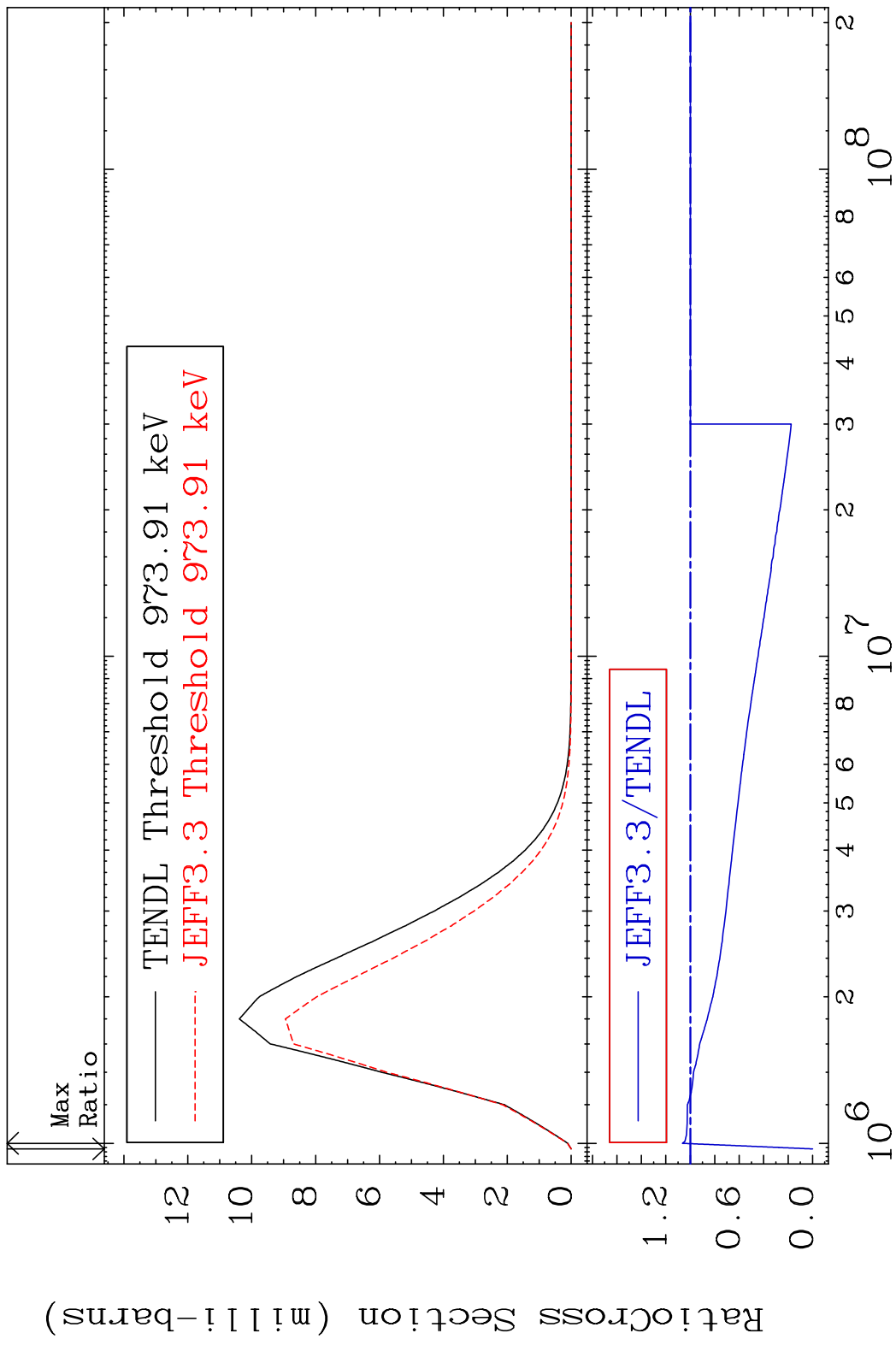
MAT 8034 MT= 67 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 3.067 %



MAT 8034 MT= 68 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 13.03 %

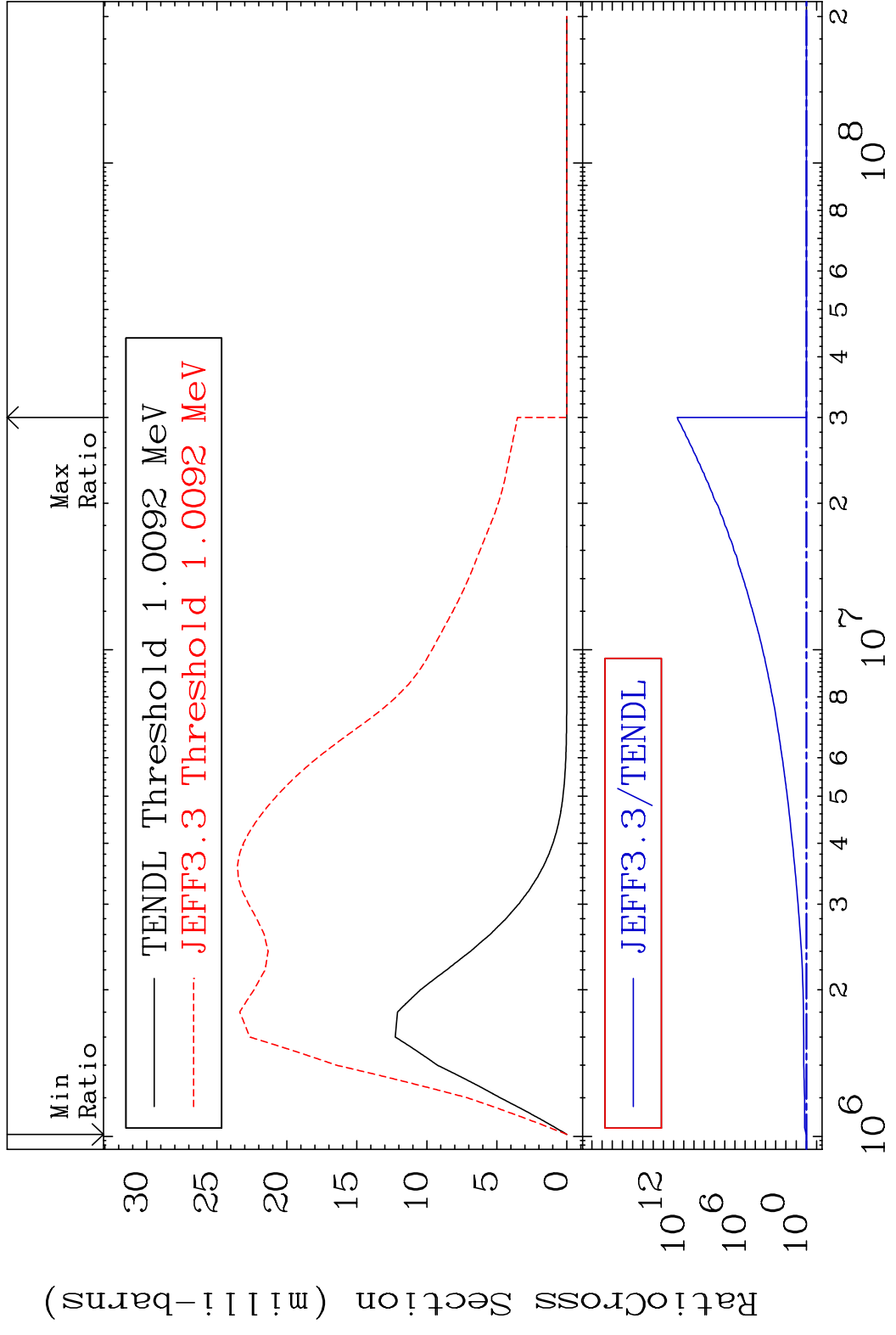


MAT 8034 MT= 69 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 6.479 %



37 Incident Energy (eV) 80-Hg-199

MAT 8034 MT= 70 (n, n') Level 80-Hg-199
 Cross Section 0.000 To 9999. %

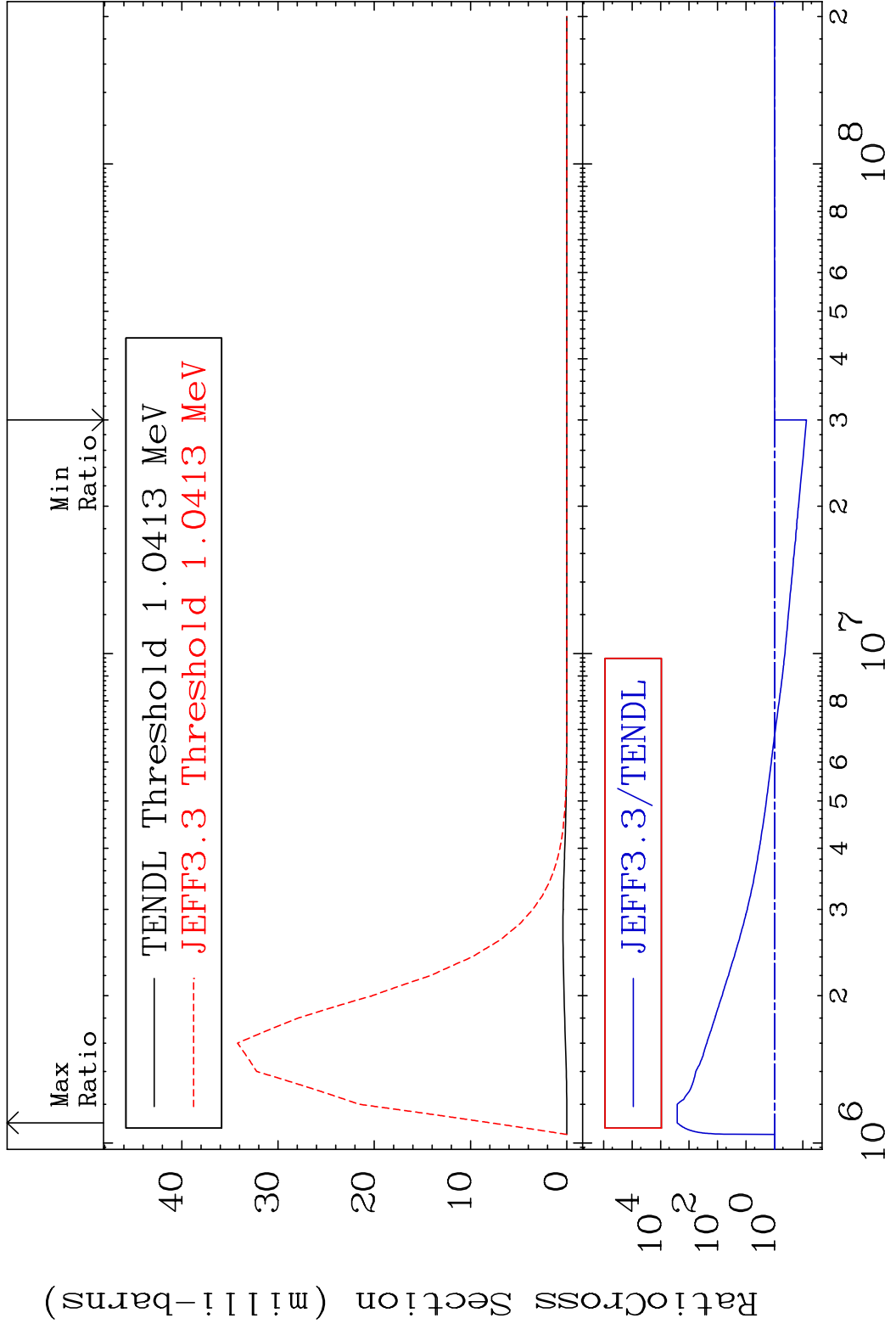


38

Incident Energy (eV)

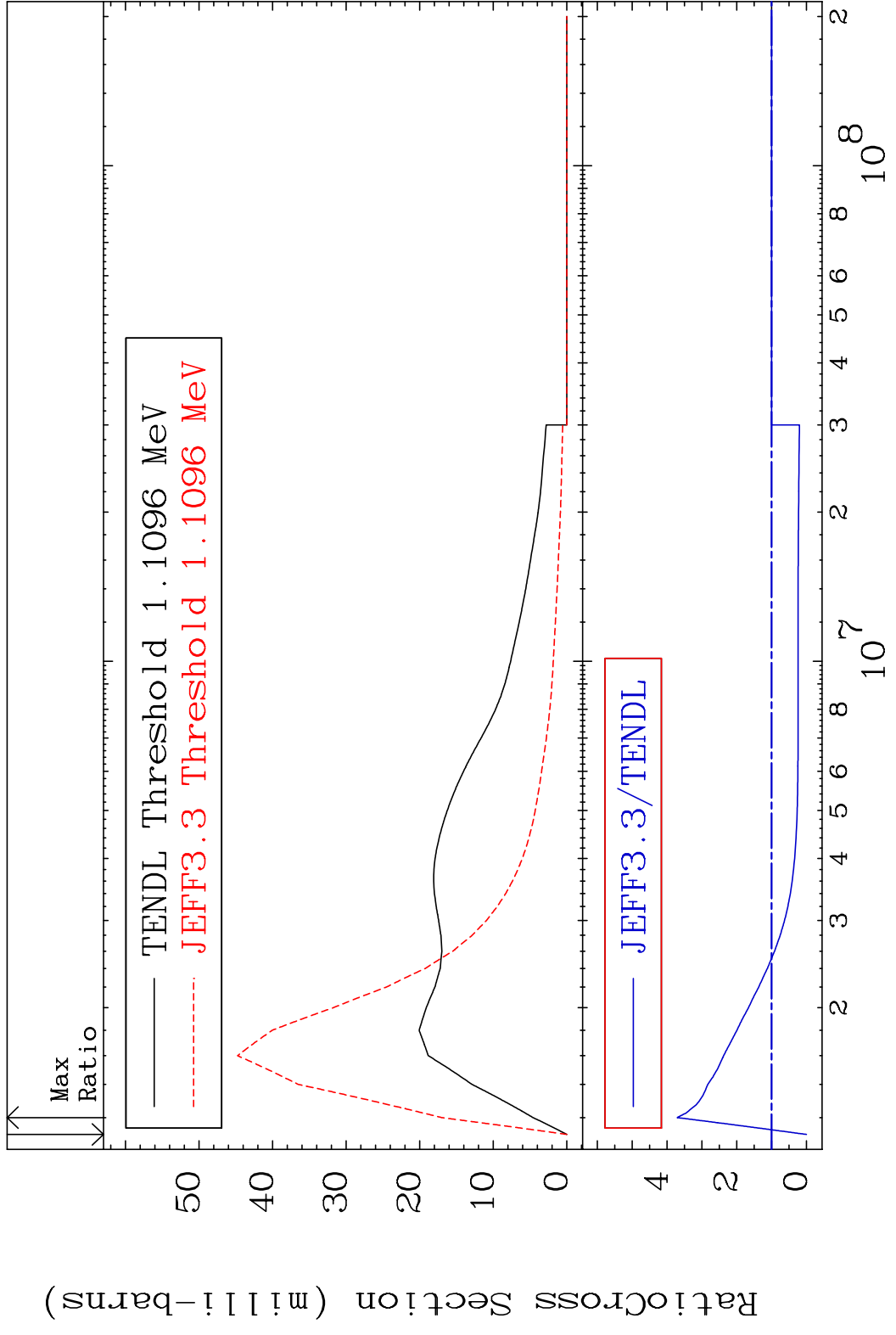
80-Hg-199

MAT 8034 MT= 71 (n, n') Level 80-Hg-199
 Cross Section -92.46 To 9999. %



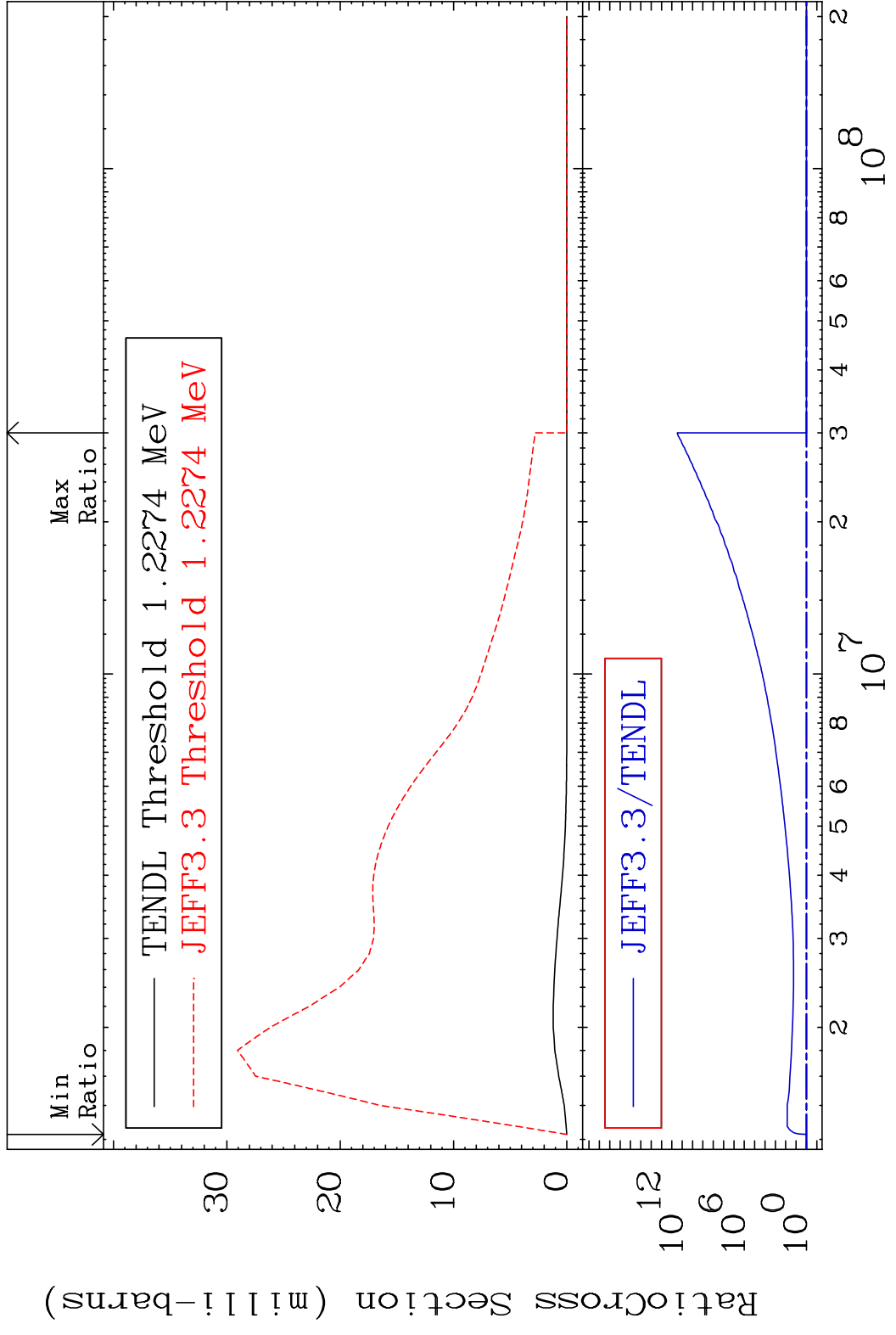
39

MAT 8034 MT= 72 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 270.9 %

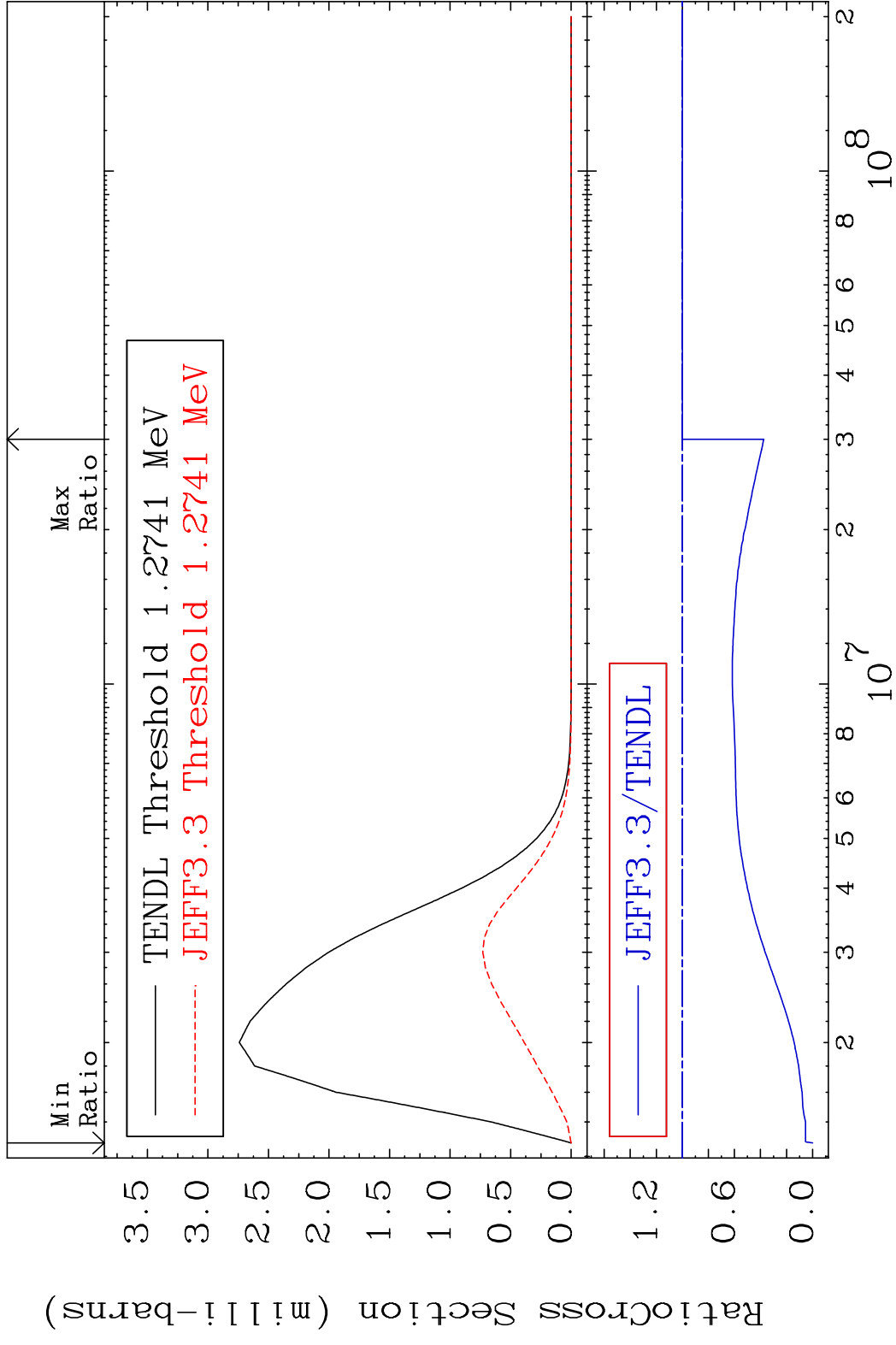


40 Incident Energy (eV) 80-Hg-199

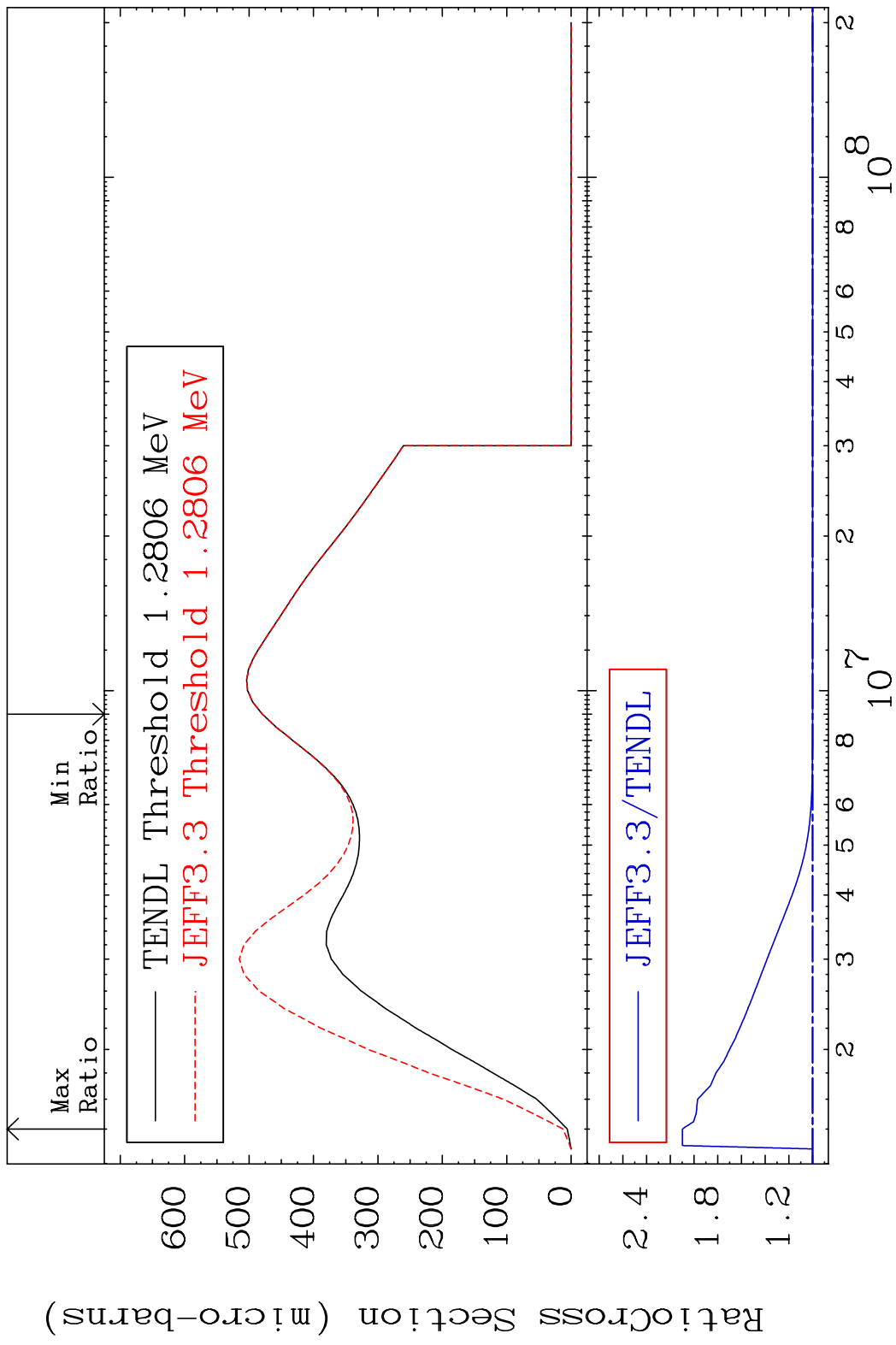
MAT 8034 MT= 73 (n, n') Level 80-Hg-199
 Cross Section 0.000 To 9999. %



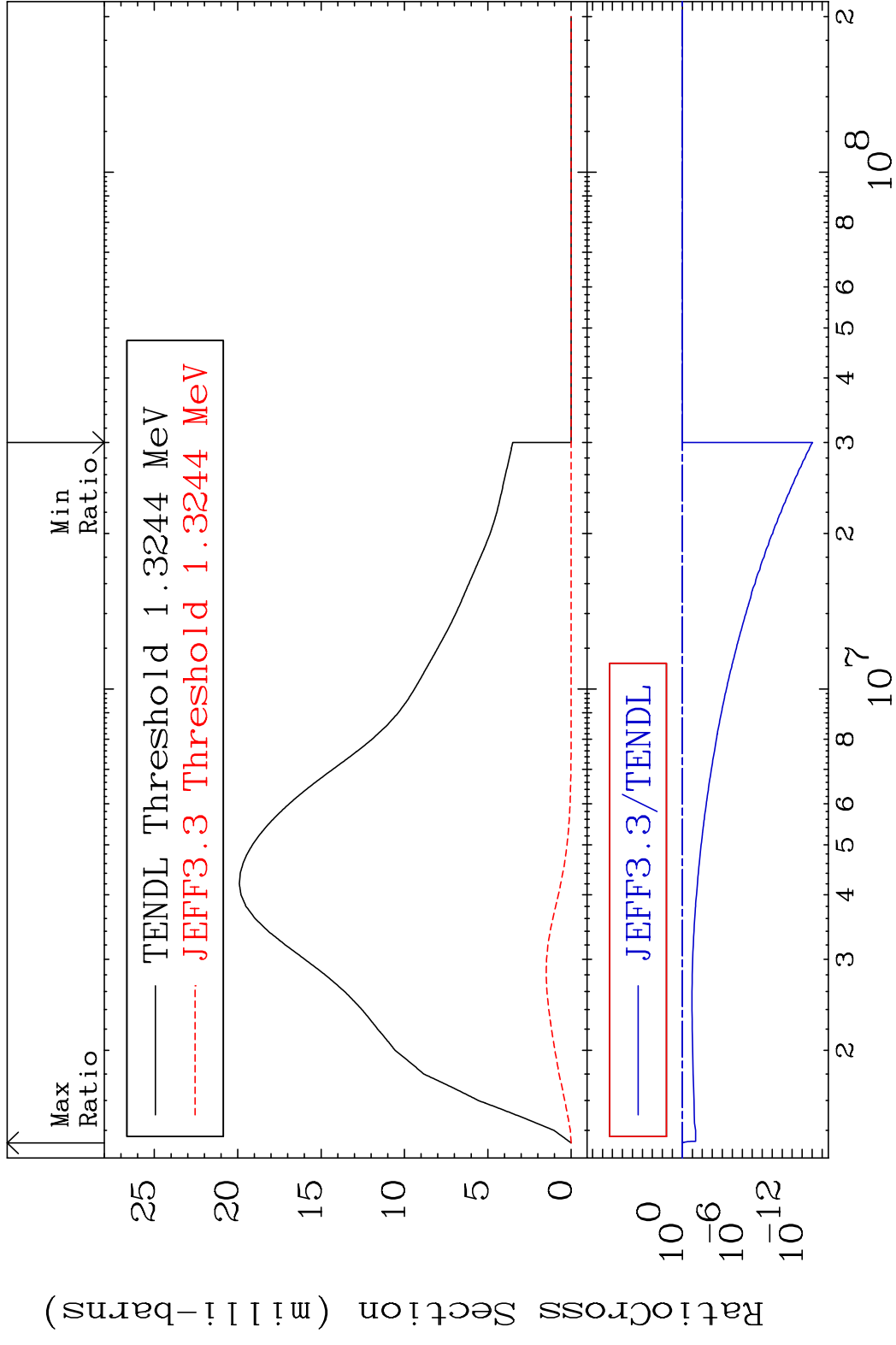
MAT 8034 MT= 74 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 0.000 %



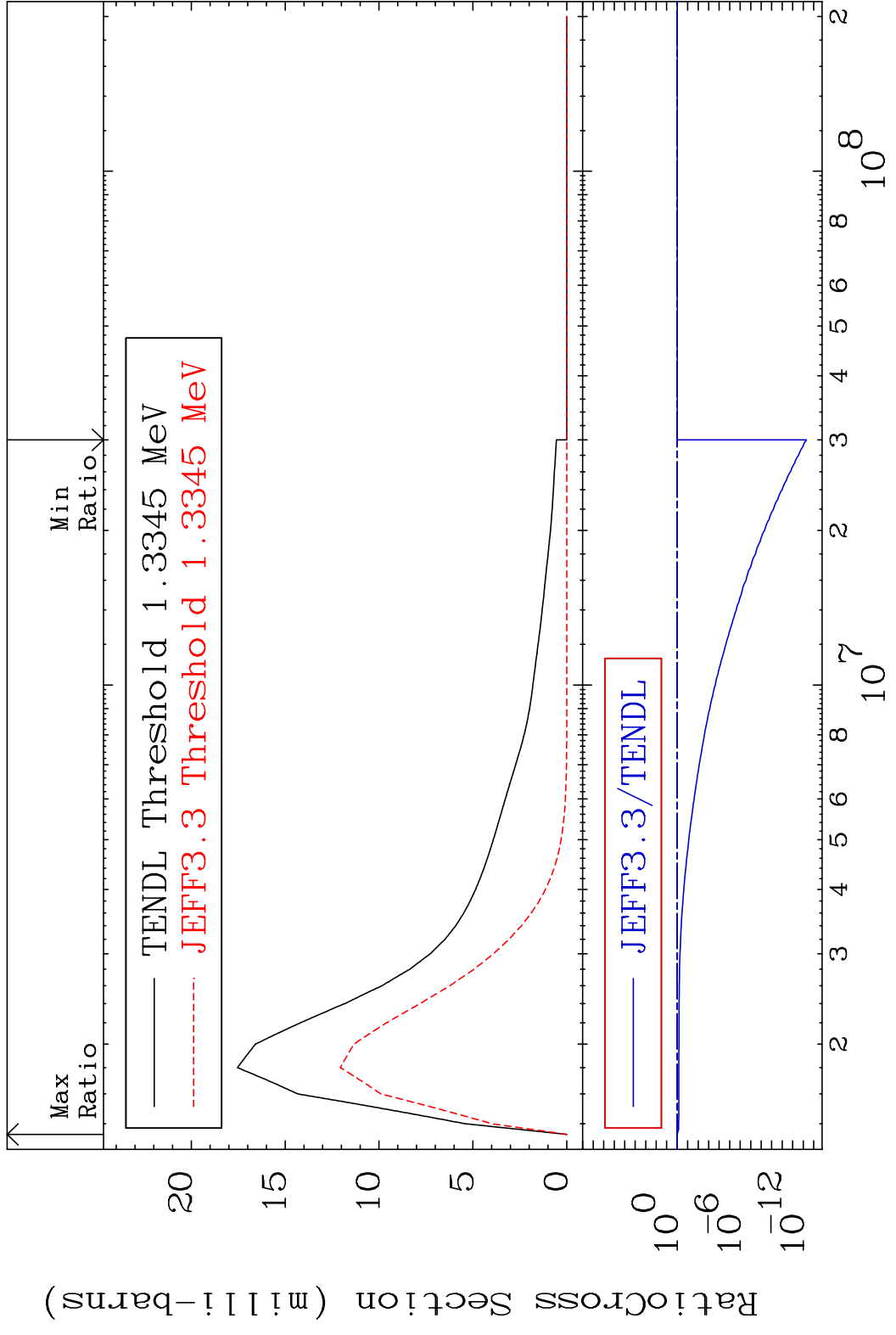
MAT 8034 MT= 75 (n, n') Level 80-Hg-199
 Cross Section -0.010 To 109.8 %



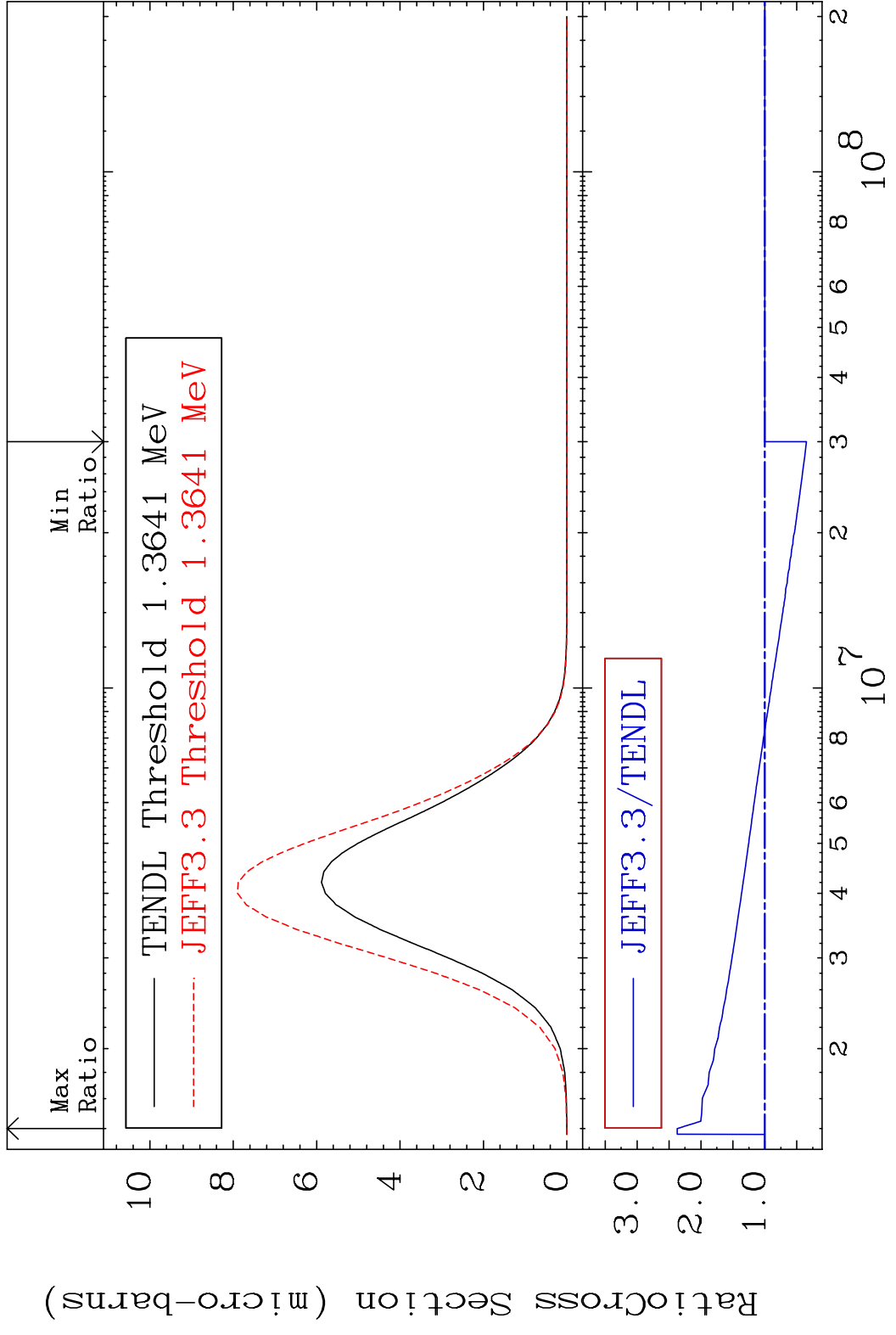
MAT 8034 MT= 76 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 0.000 %



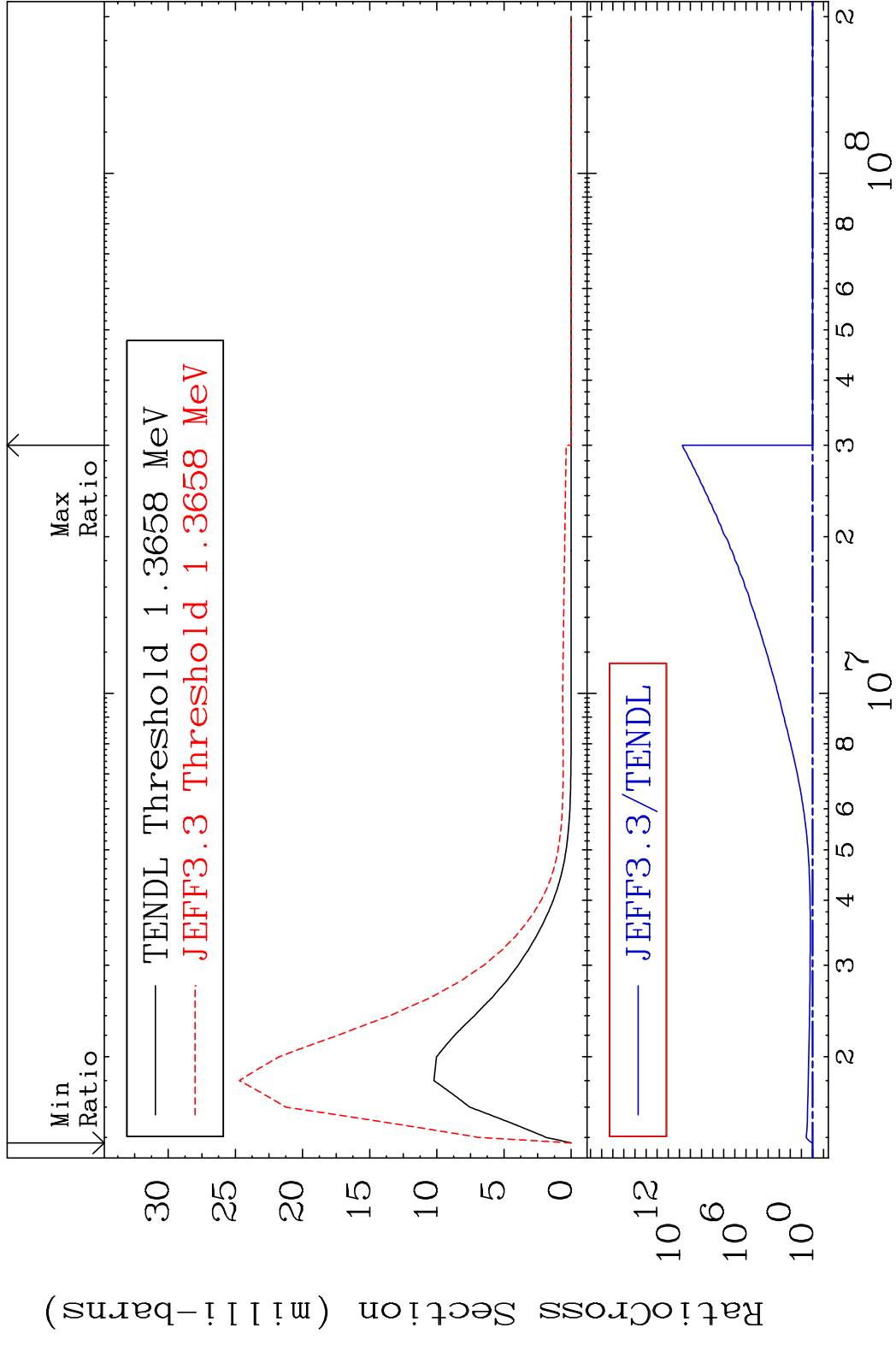
MAT 8034 MT= 77 (n, n') Level 80-Hg-199
 Cross Section -100.0 To 0.000 %



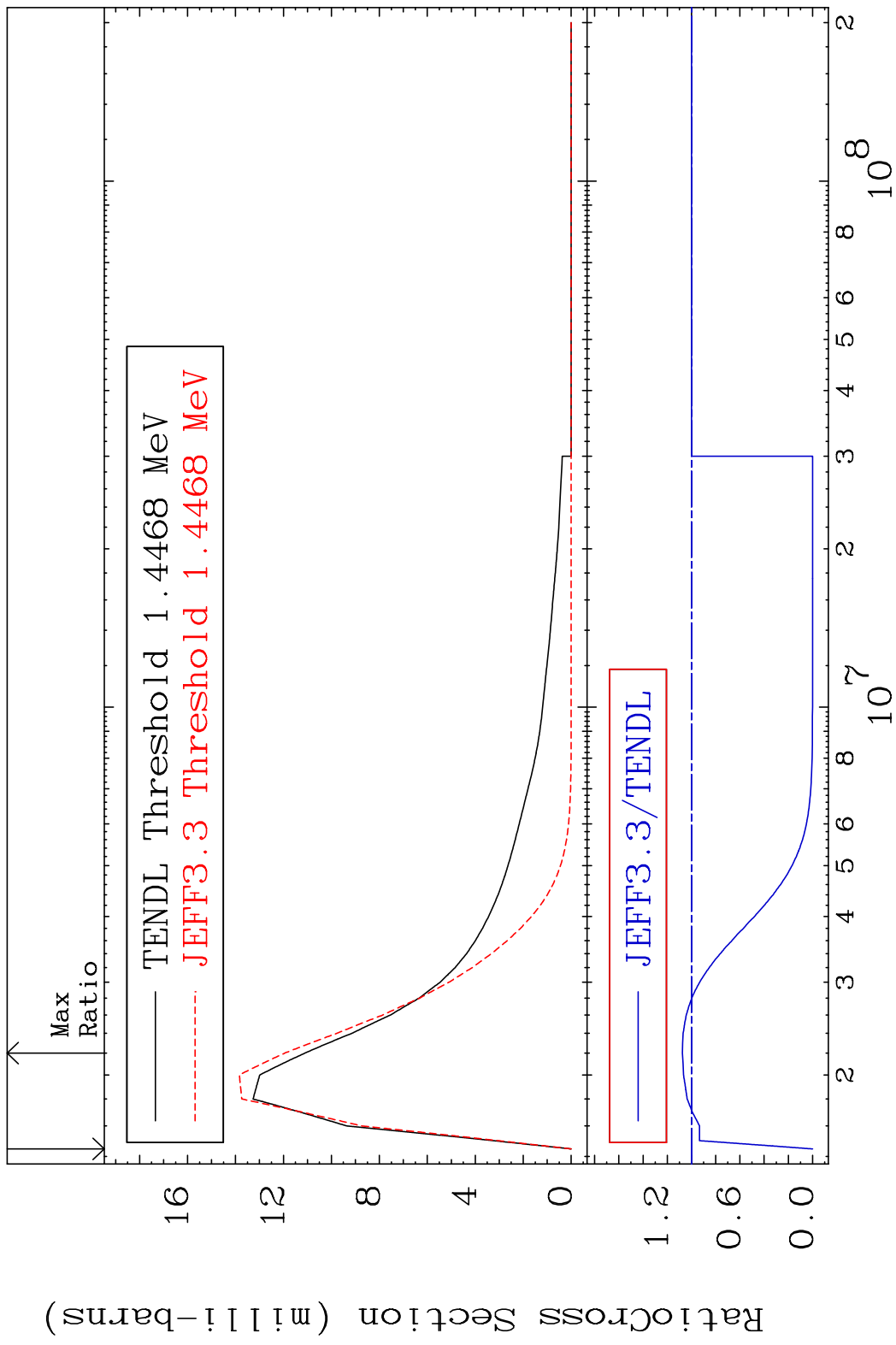
MAT 8034 MT= 78 (n, n') Level 80-Hg-199
 Cross Section -65.10 To 137.2 %



MAT 8034 MT= 79 (n, n') Level 80-Hg-199
 Cross Section 0.000 To 9999. %



MAT 8034 MT= 80 (n,n') Level 80-Hg-199
 Cross Section -100.0 To 7.542 %

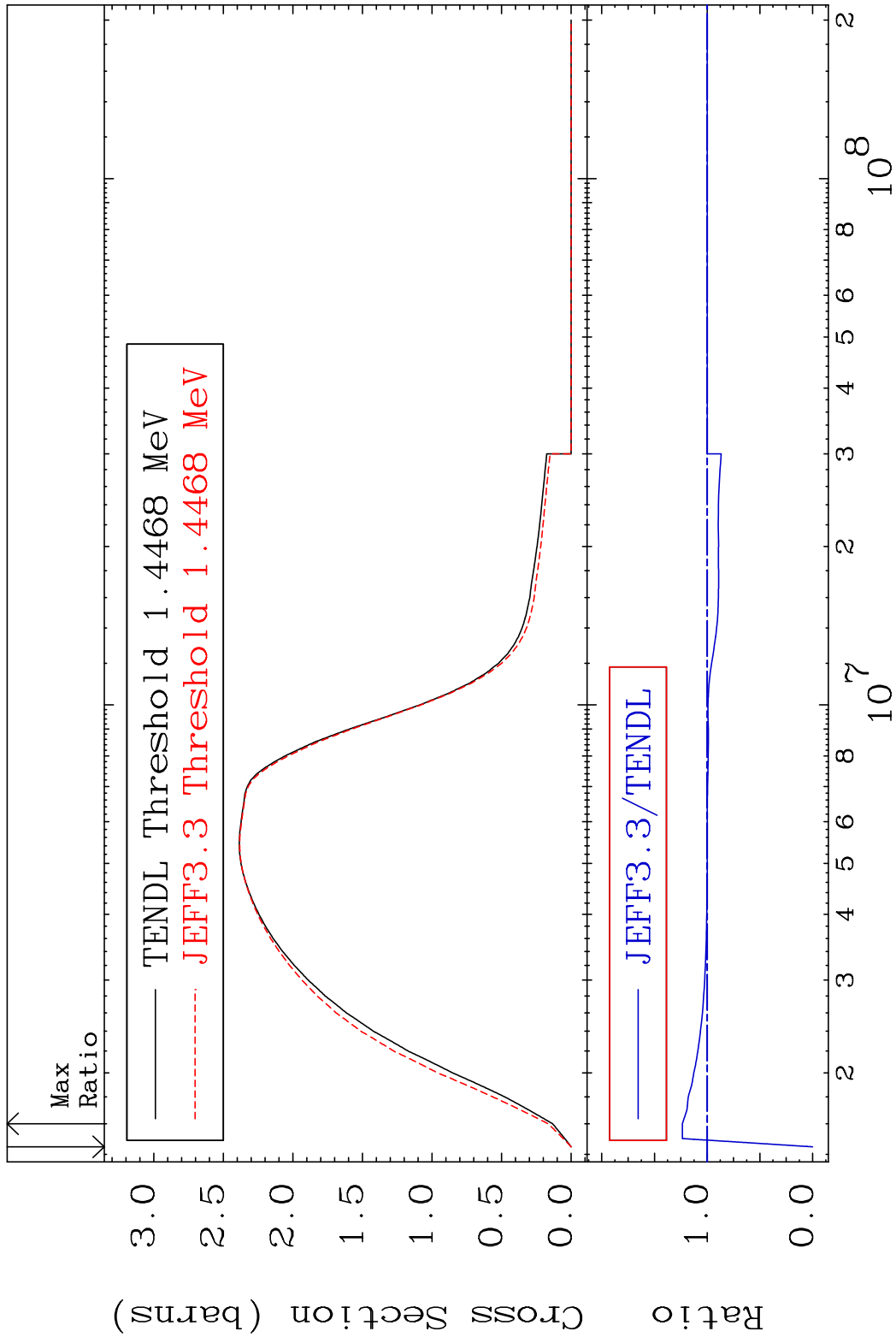


MAT 8034

(n, n') Continuum

80-Hg-199

Cross Section -100.0 To 23.54 %



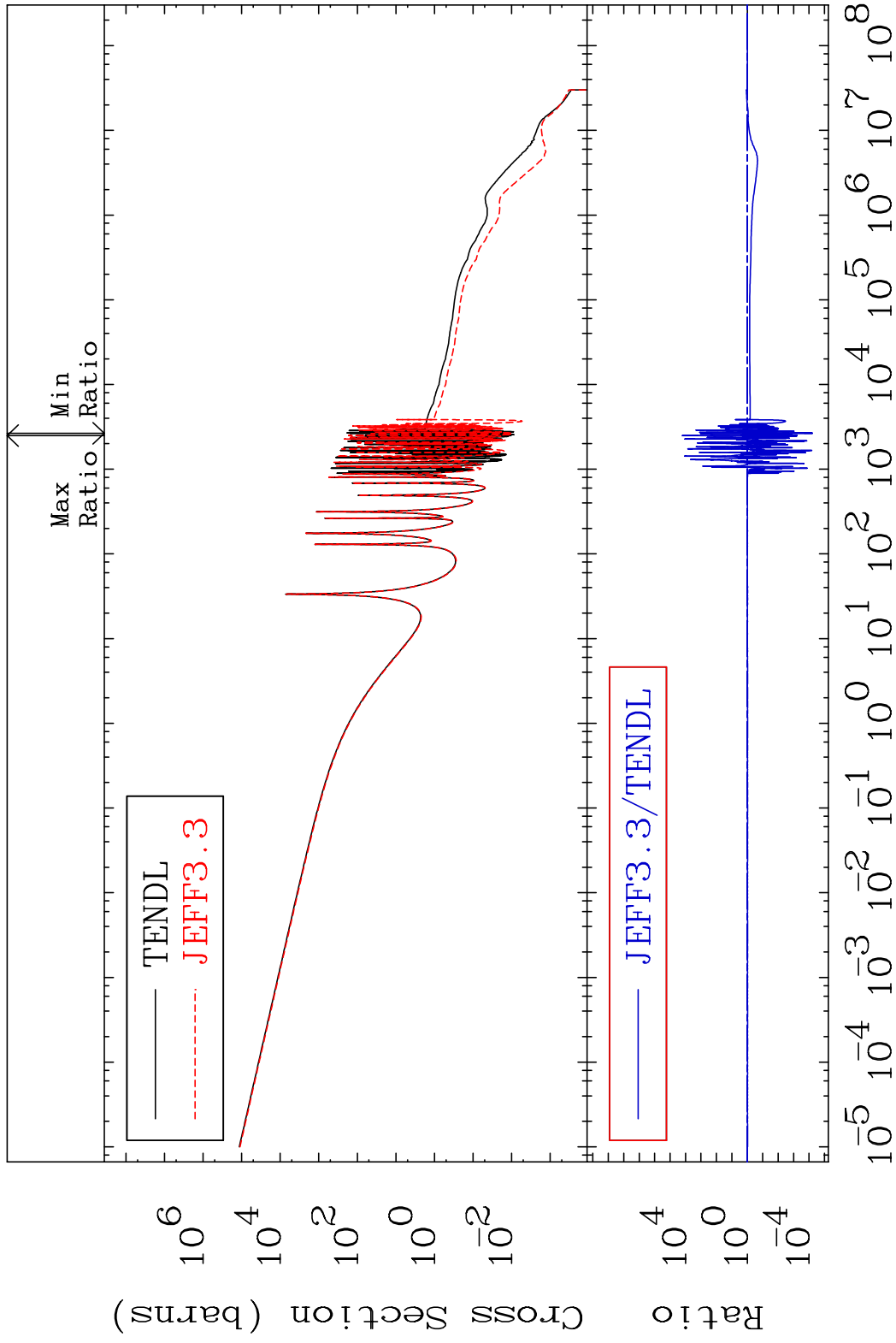
49

Incident Energy (eV)

80-Hg-199

MAT 8034

(n, γ)
Cross Section 80-Hg-199
-99.99 To 9999. %



50

80-Hg-199

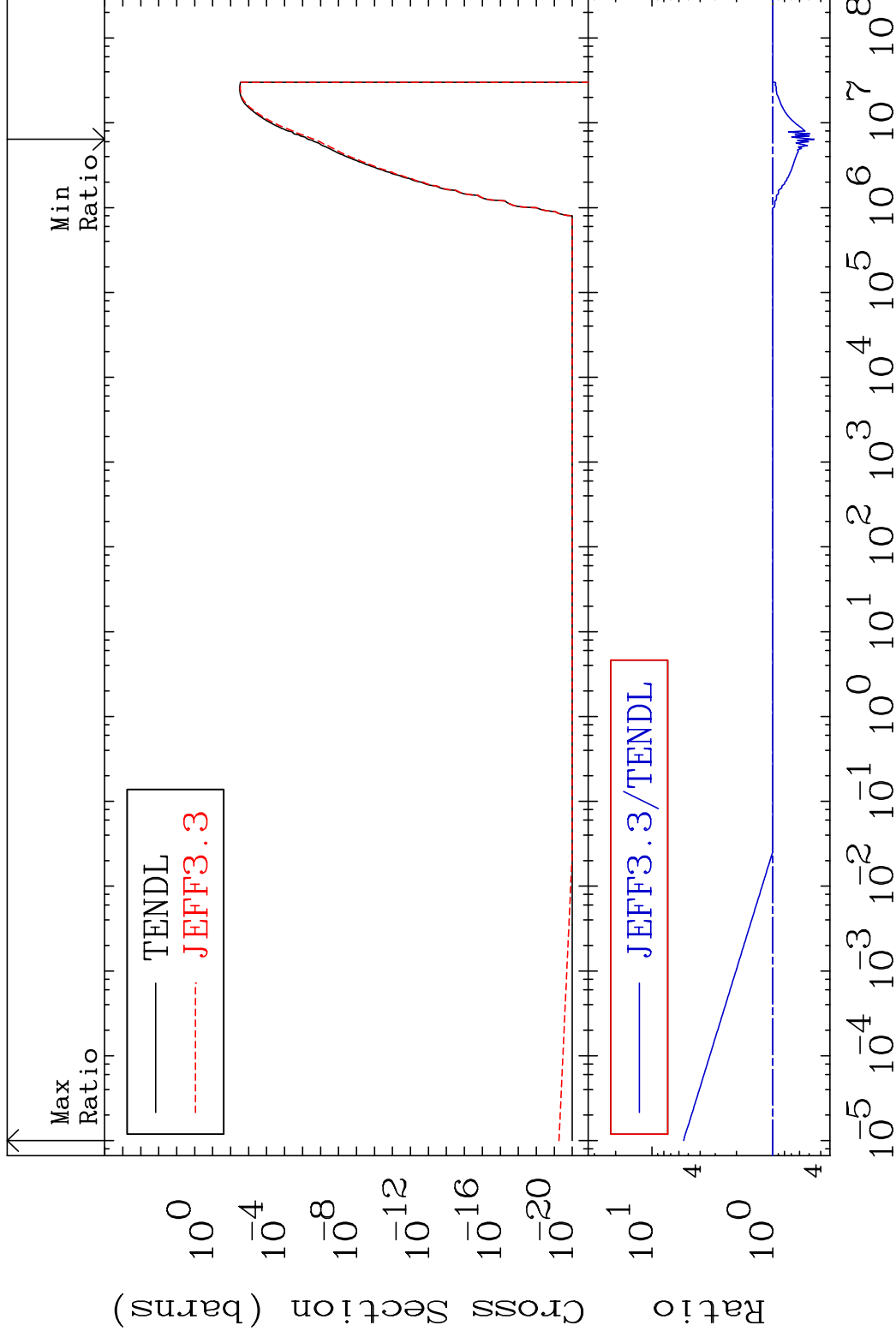
MAT 8034

(n, p)

80-Hg-199

Cross Section

-54.62 To 446.8 %



51

Incident Energy (eV)

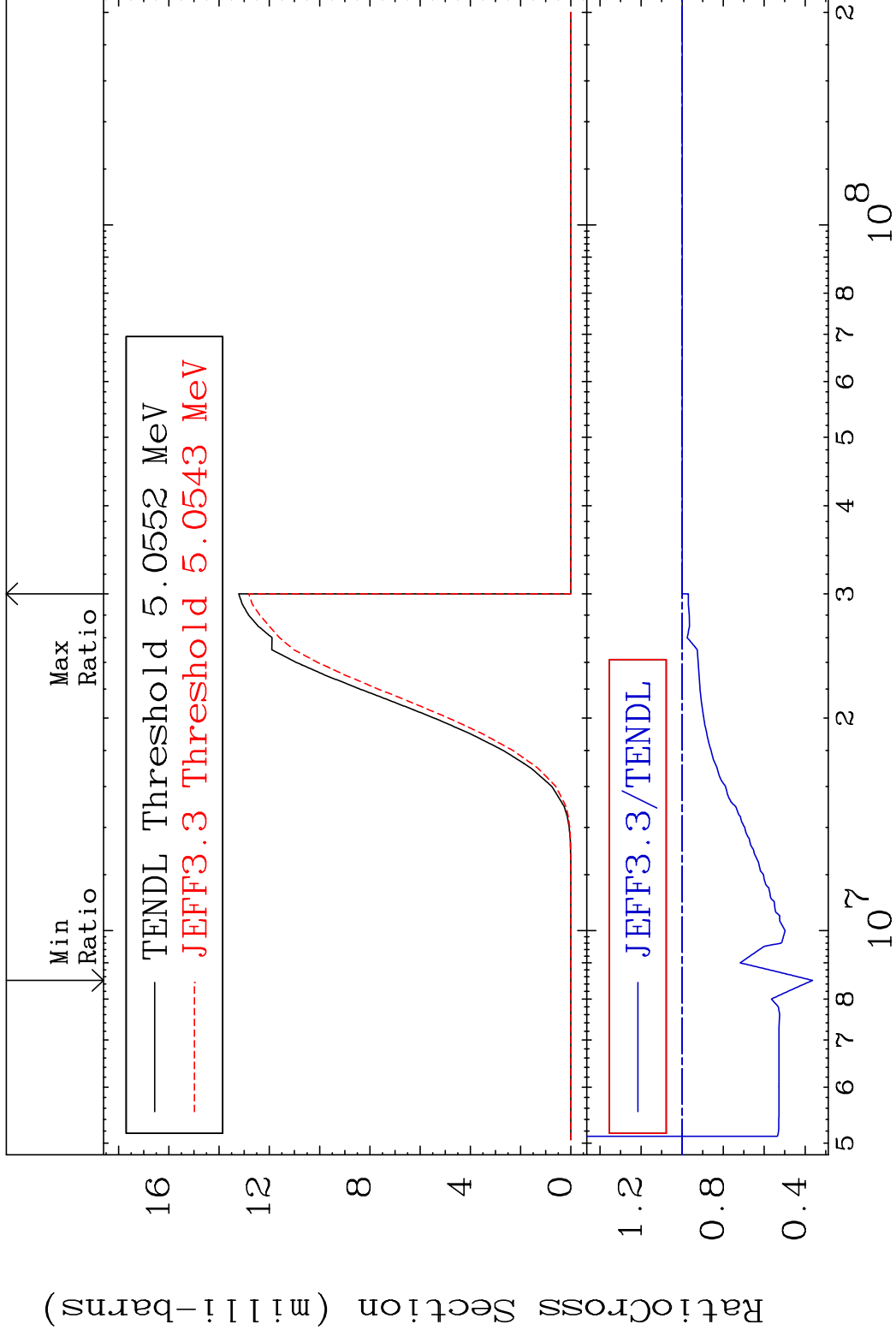
80-Hg-199

MAT 8034

(n, d)

80-Hg-199

Cross Section -63.52 To 0.000 %



52

Incident Energy (eV)

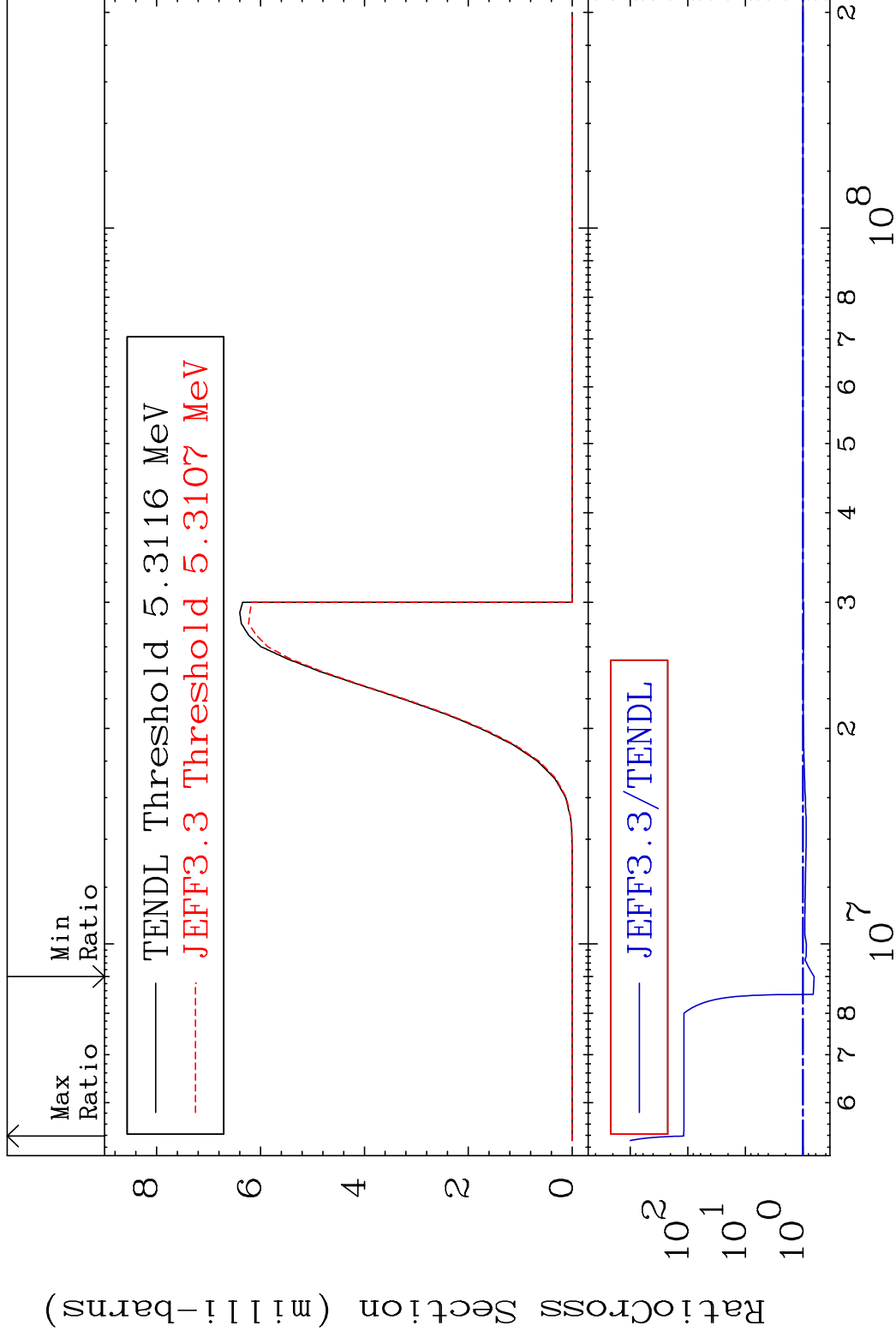
80-Hg-199

MAT 8034

(n, t)

80-Hg-199

Cross Section -35.97 To 9999. %



53

Incident Energy (eV)

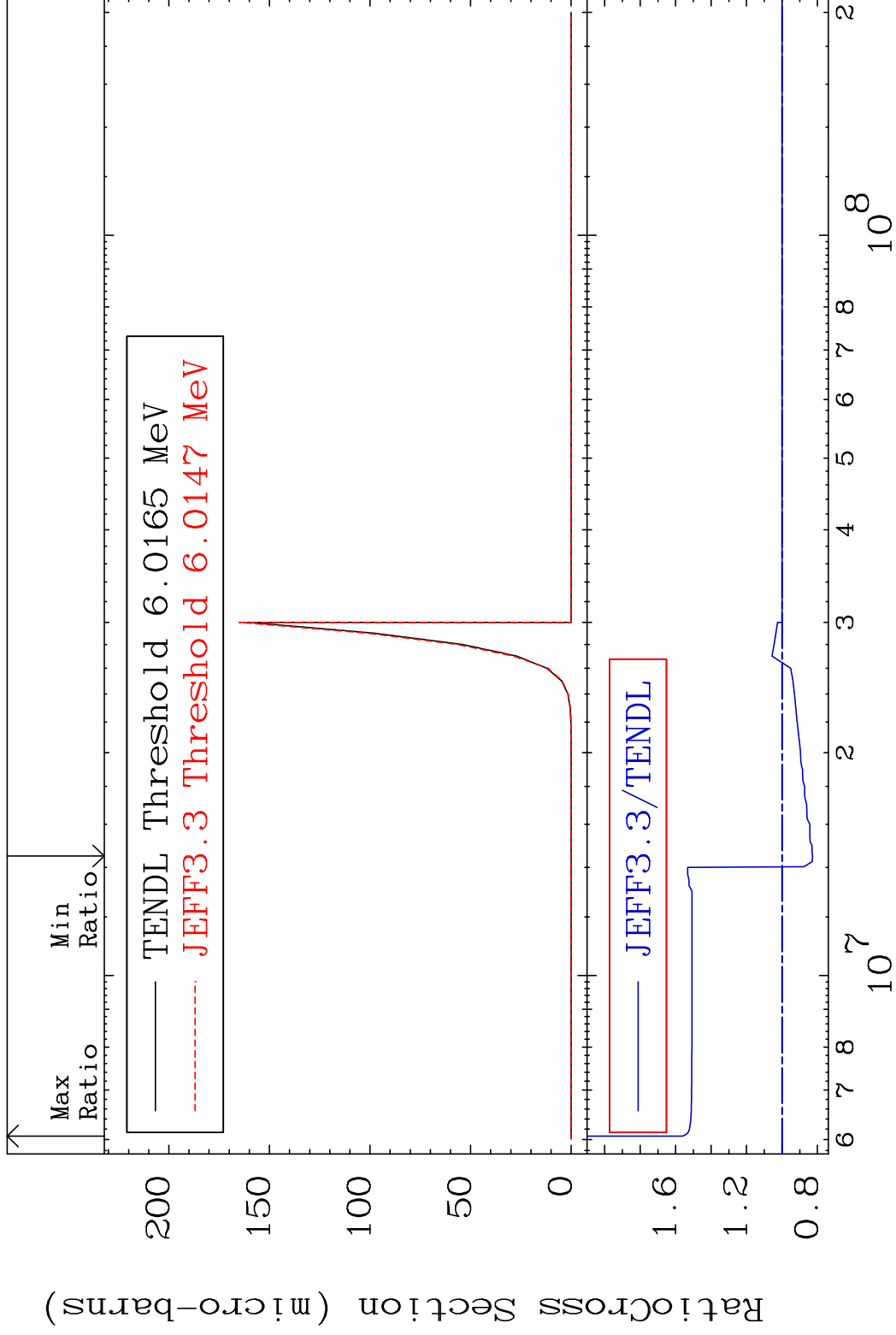
80-Hg-199

MAT 8034

(n, He-3)

80-Hg-199

Cross Section -17.23 To 56.21 %



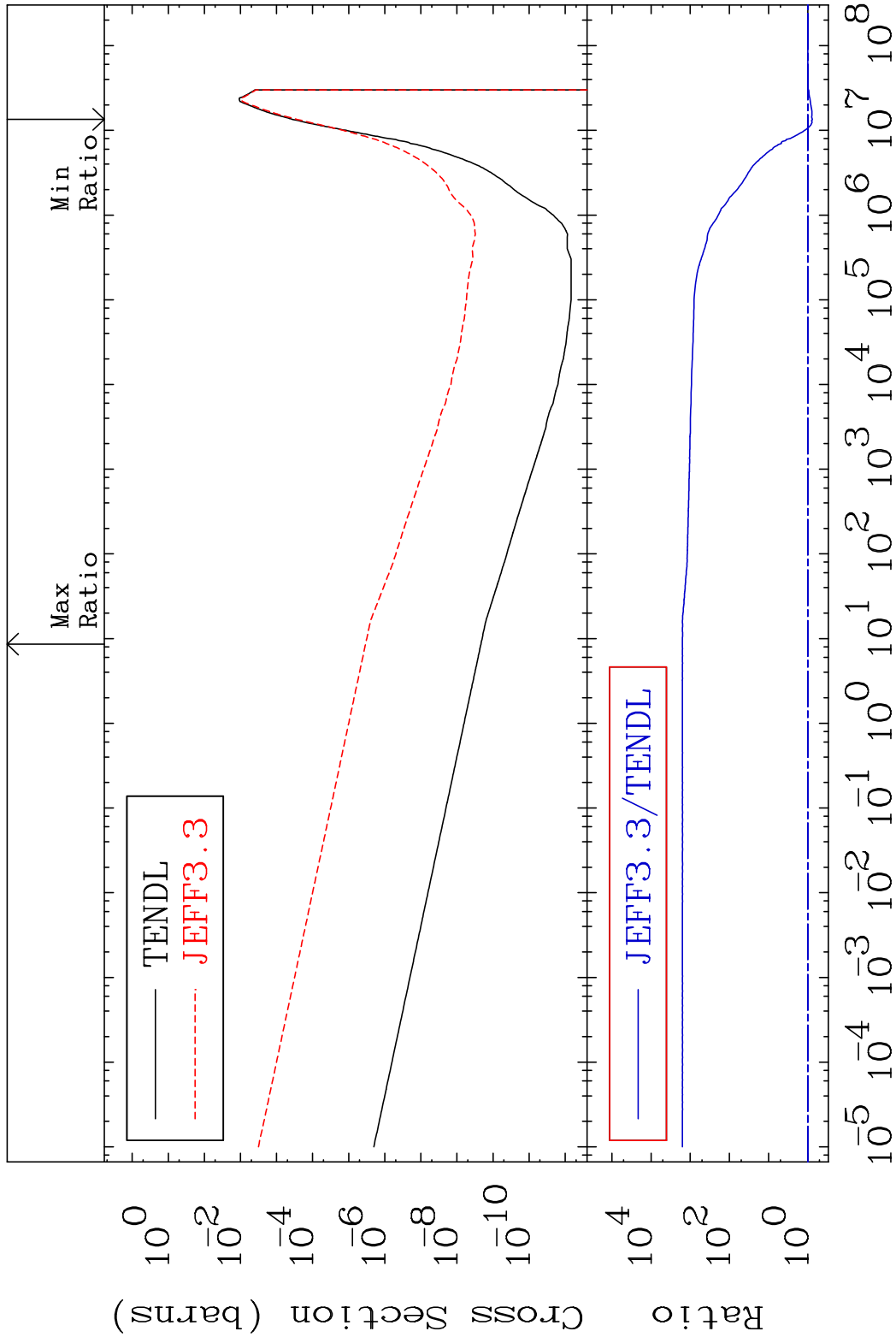
54

Incident Energy (eV)

80-Hg-199

MAT 8034

(n, α)
Cross Section -24.58 To 9999. %
80-Hg-199



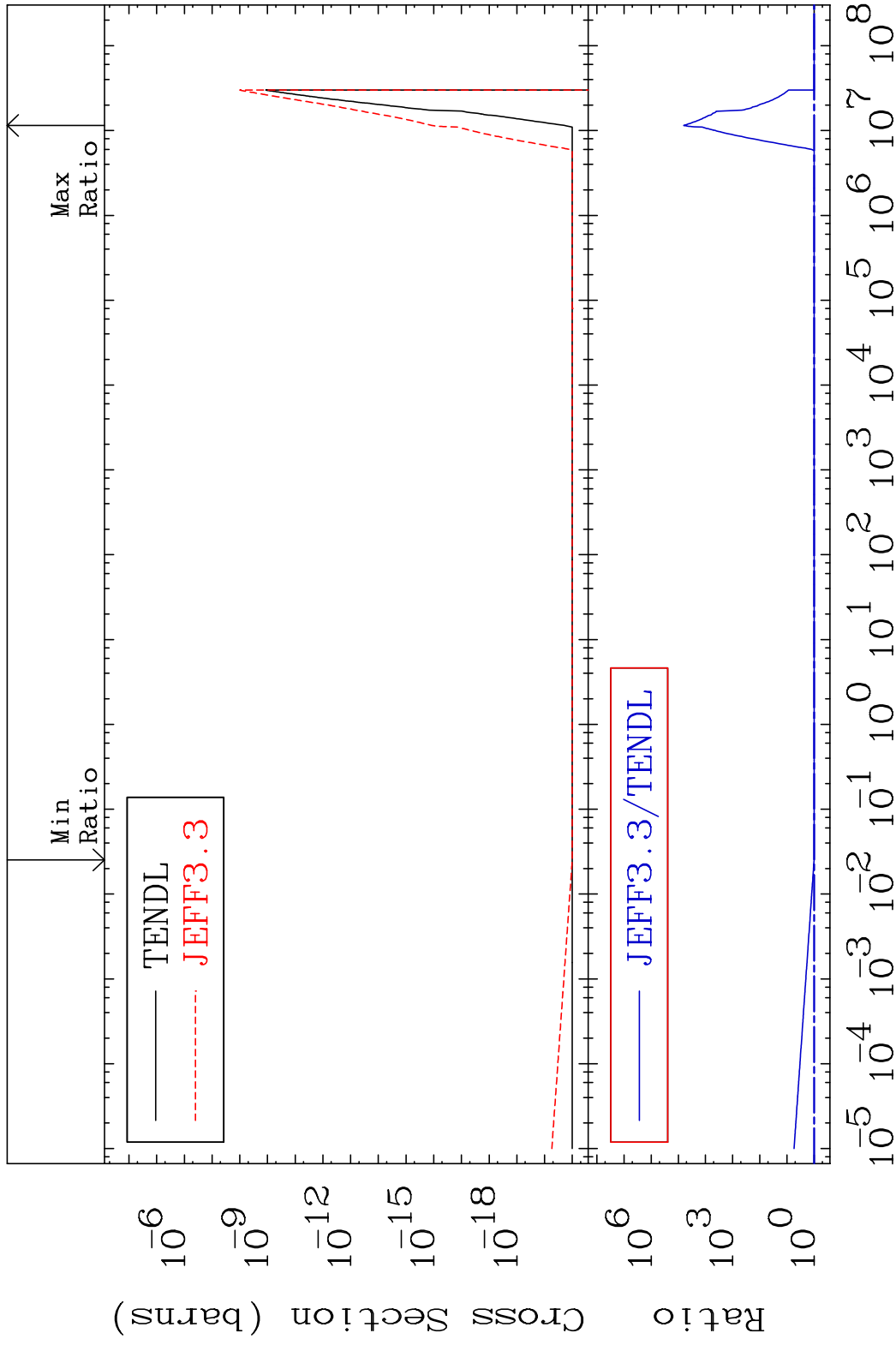
55

Incident Energy (eV) 80-Hg-199

MAT 8034

(n,2α) 80-Hg-199

Cross Section 0.000 To 9999. %



56

Incident Energy (eV)

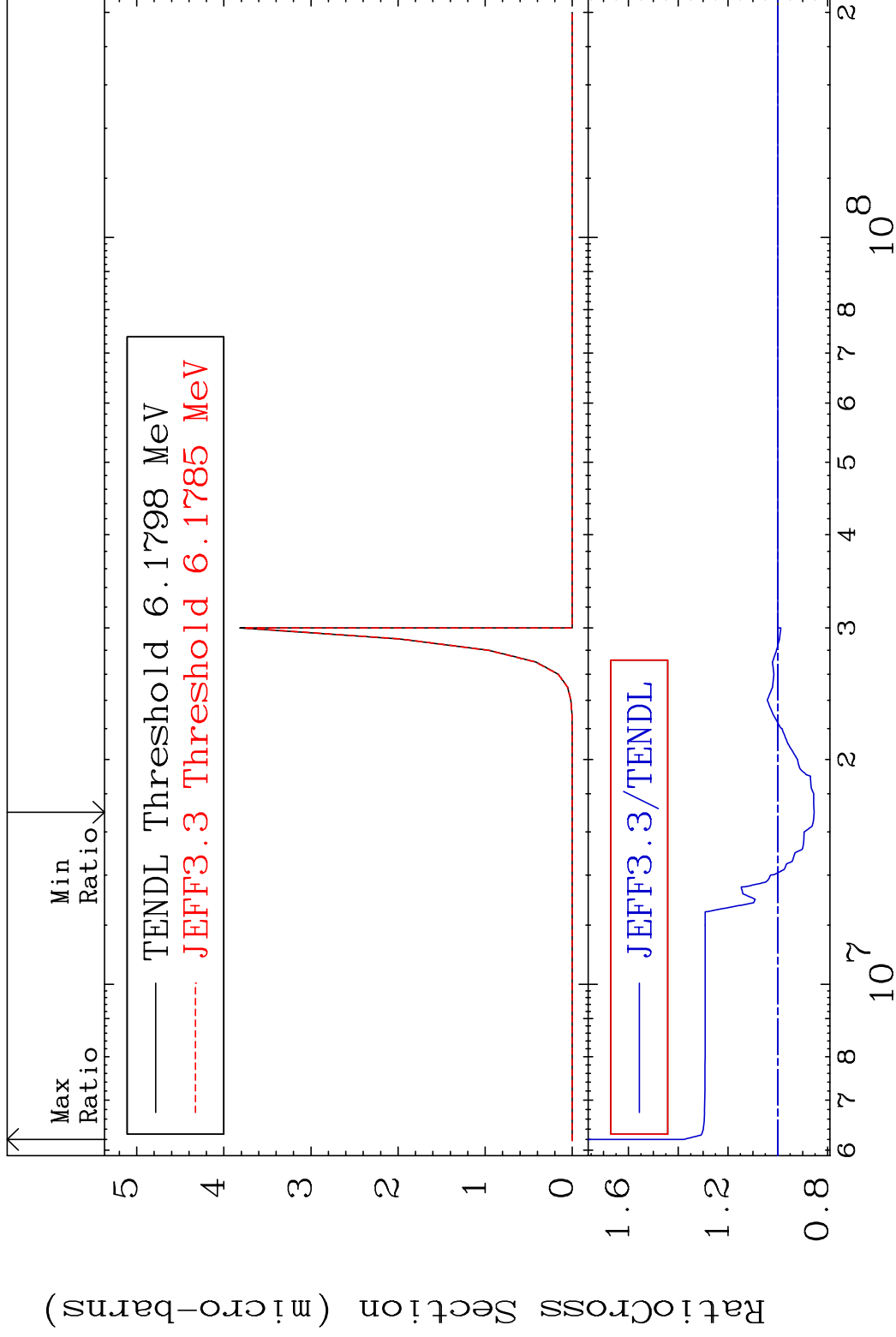
80-Hg-199

MAT 8034

(n,2p)

80-Hg-199

Cross Section -14.59 To 37.82 %



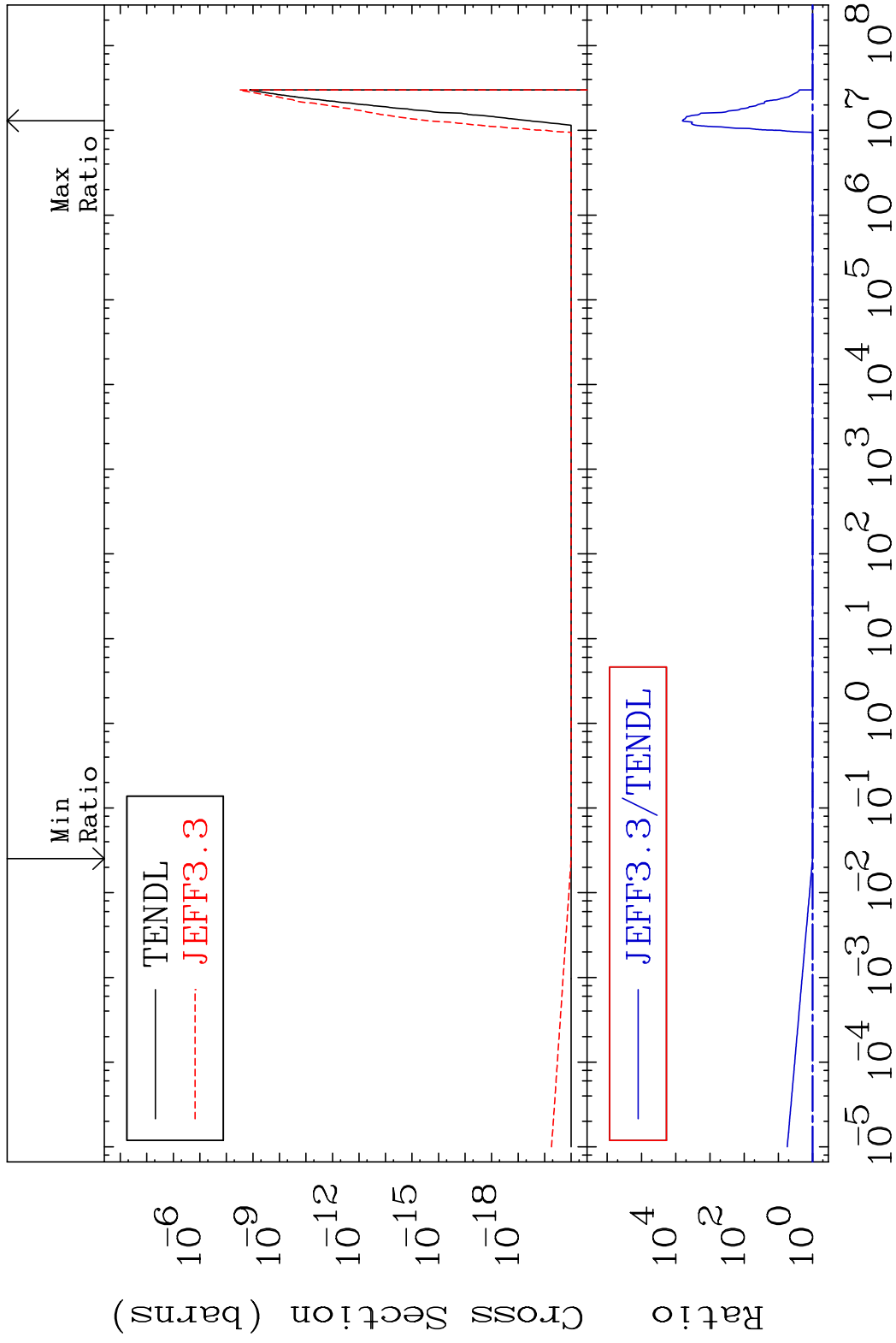
57

Incident Energy (eV)

80-Hg-199

MAT 8034

(n,p) α 80-Hg-199
Cross Section 0.000 To 9999. %



58

Incident Energy (eV)

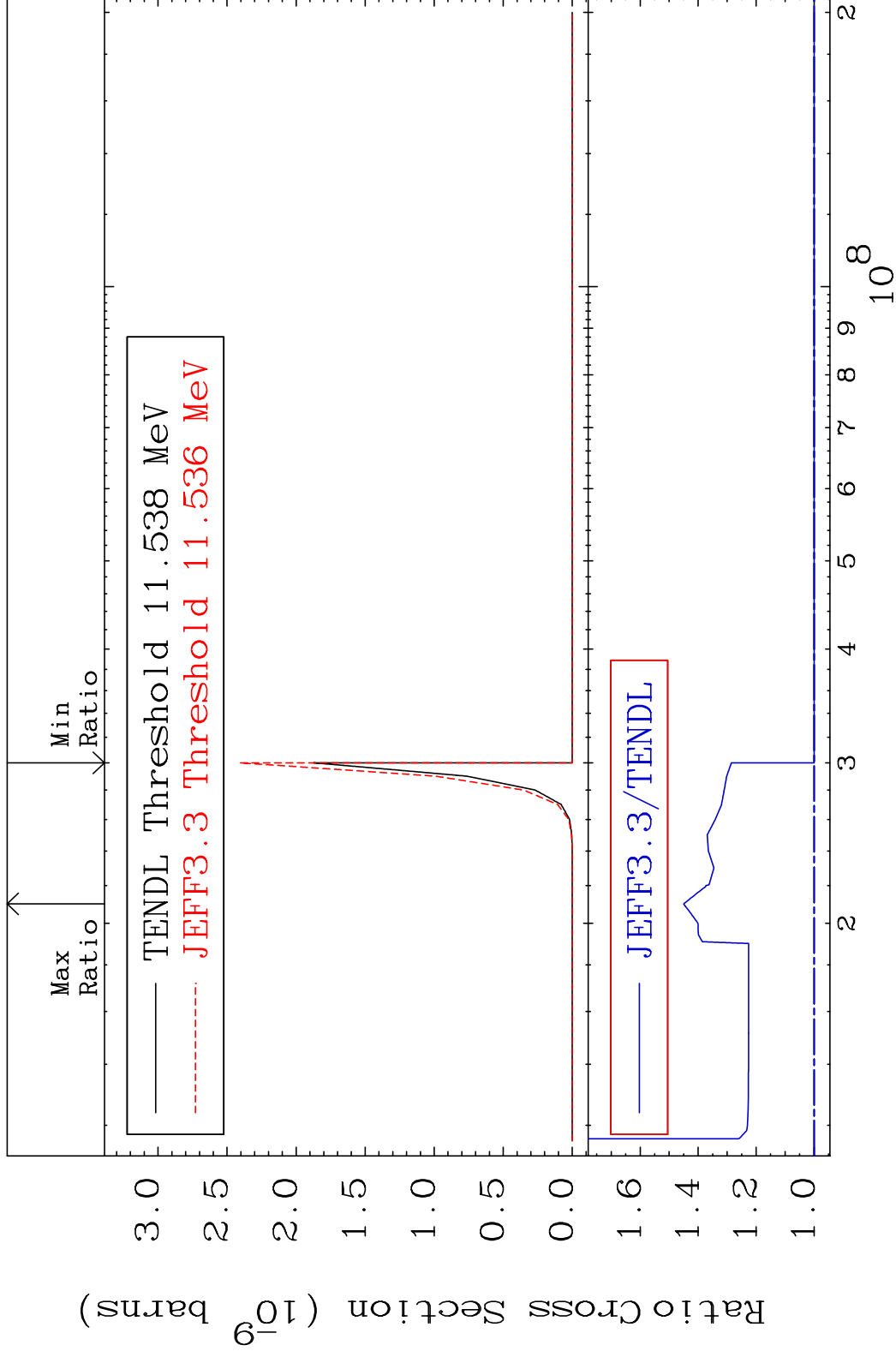
80-Hg-199

MAT 8034

(n,p) d

80-Hg-199

Cross Section 0.000 To 45.00 %

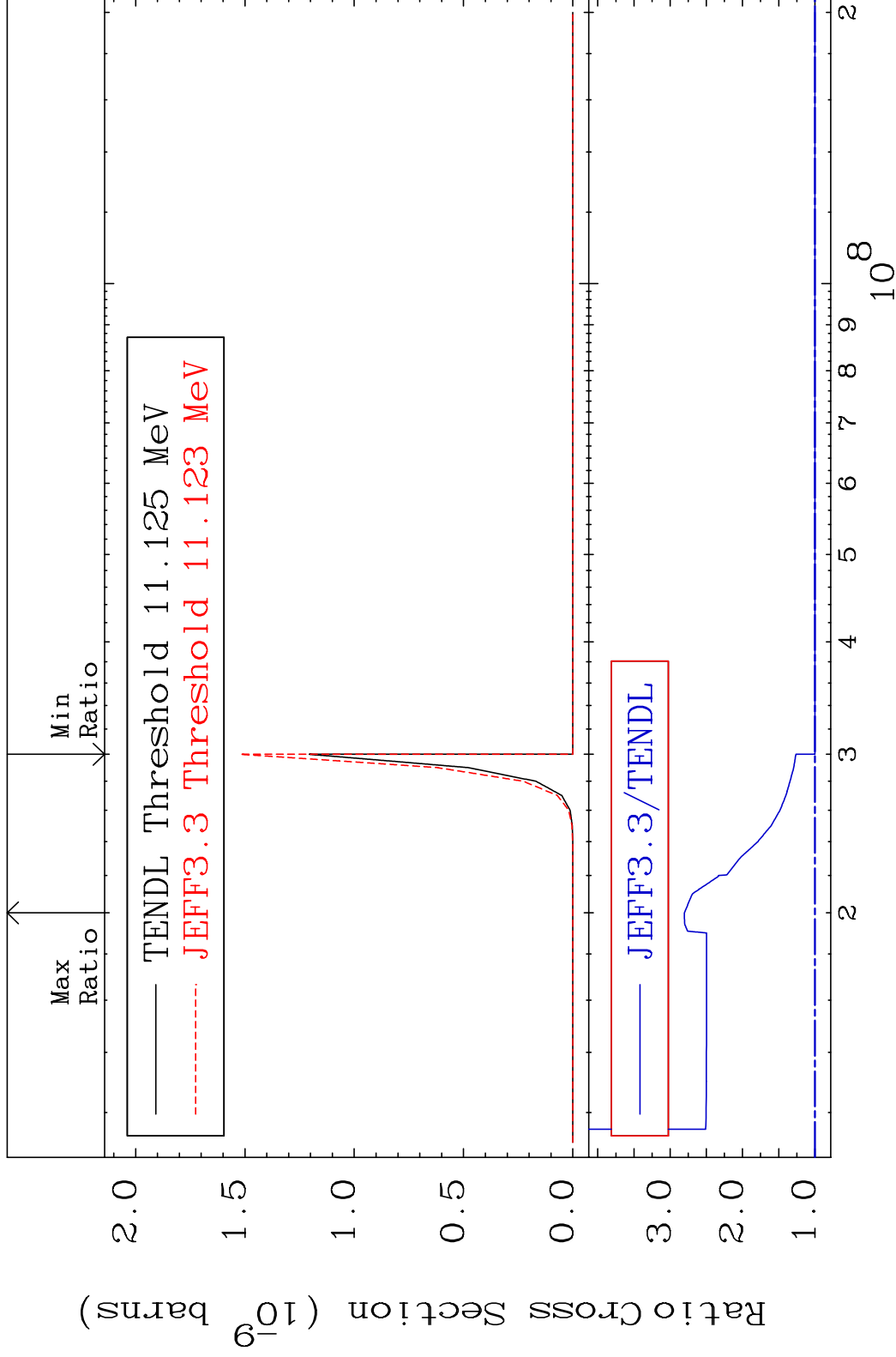


MAT 8034

(n,p) t

80-Hg-199

Cross Section 0.000 To 180.4 %



60

Incident Energy (eV)

80-Hg-199

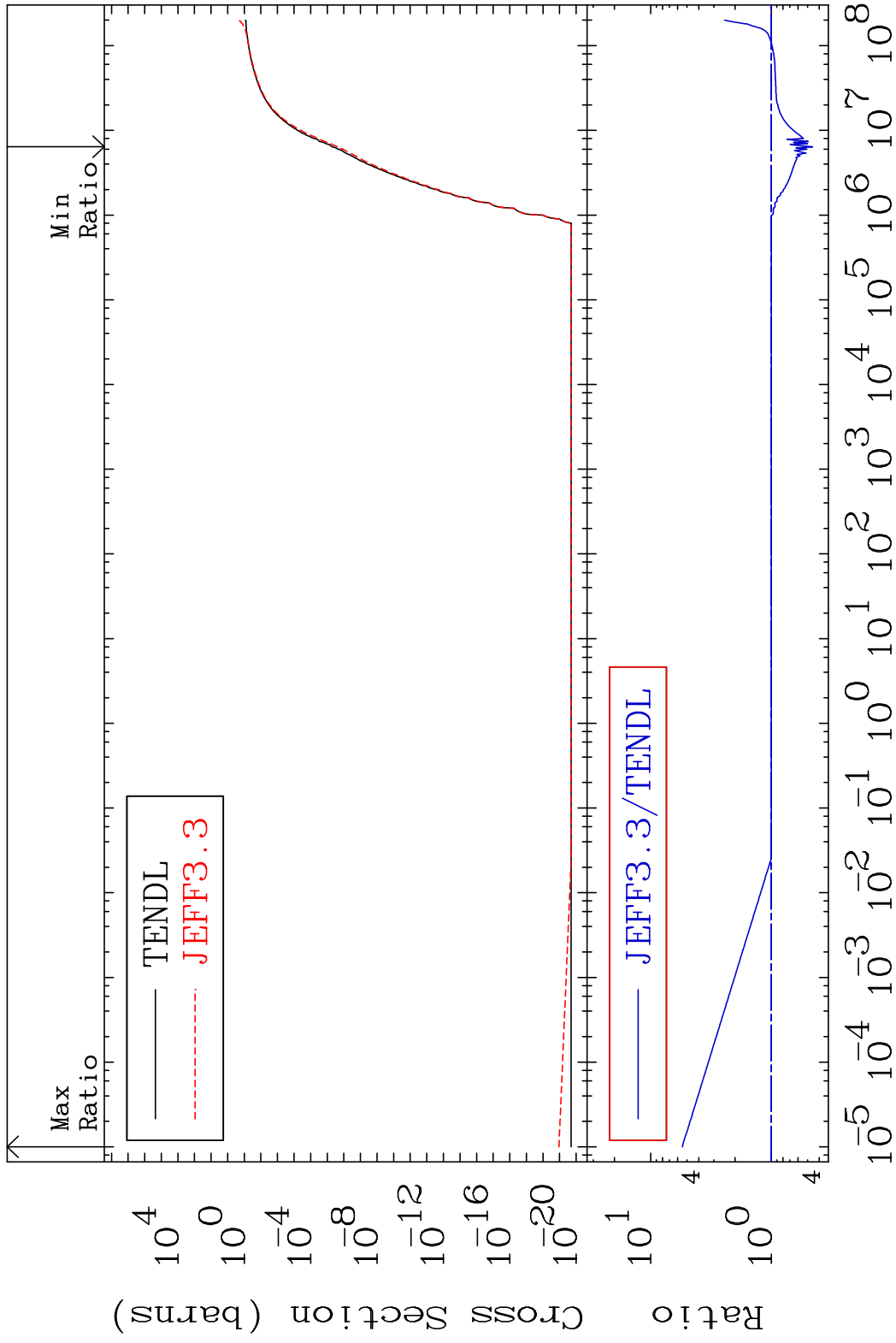
MAT 8034

Hydrogen Production

80-Hg-199

Cross Section

-54.62 To 446.8 %



61

Incident Energy (eV)

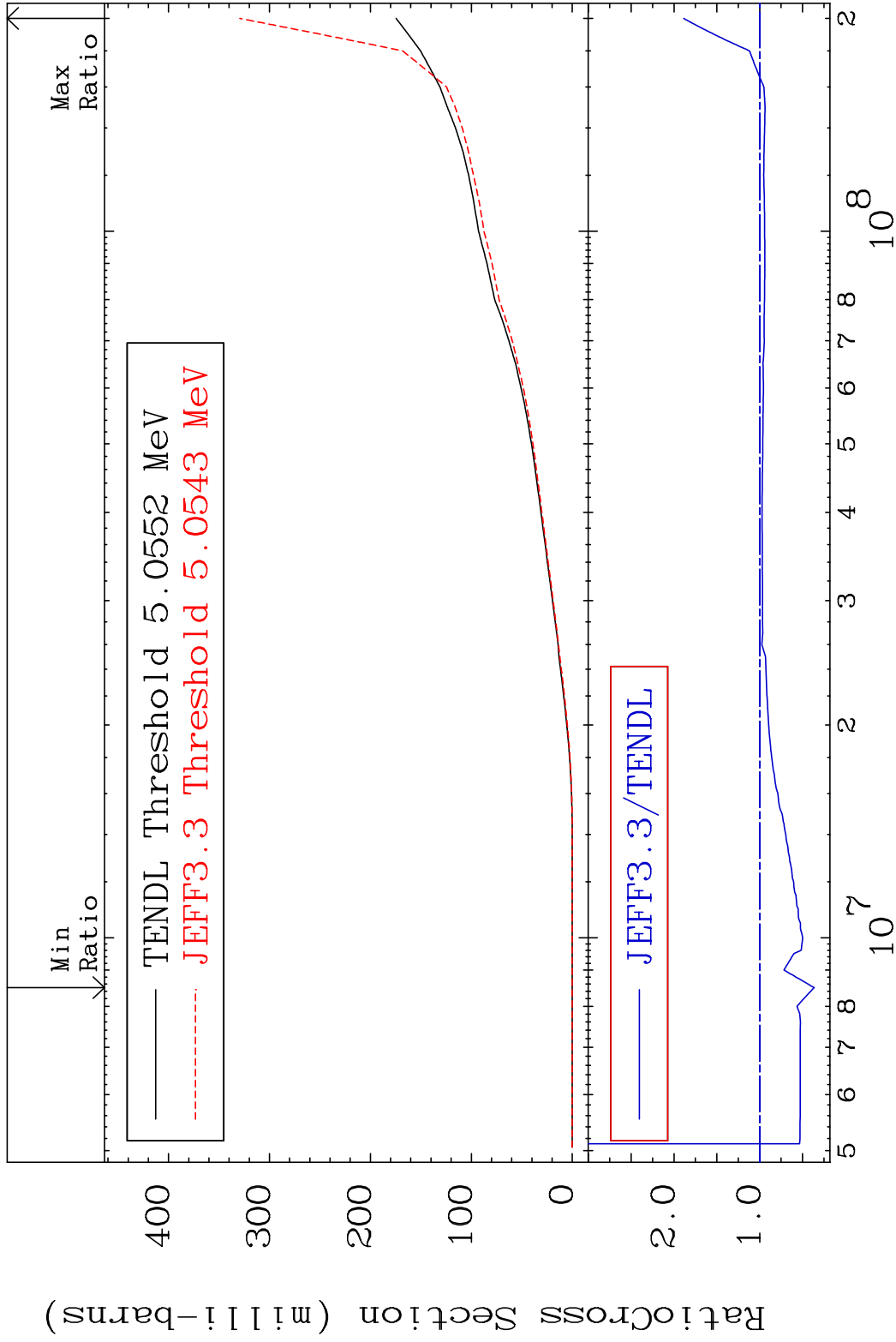
80-Hg-199

MAT 8034

Deuterium Production

80-Hg-199

Cross Section -63.52 To 88.74 %



62

Incident Energy (eV)

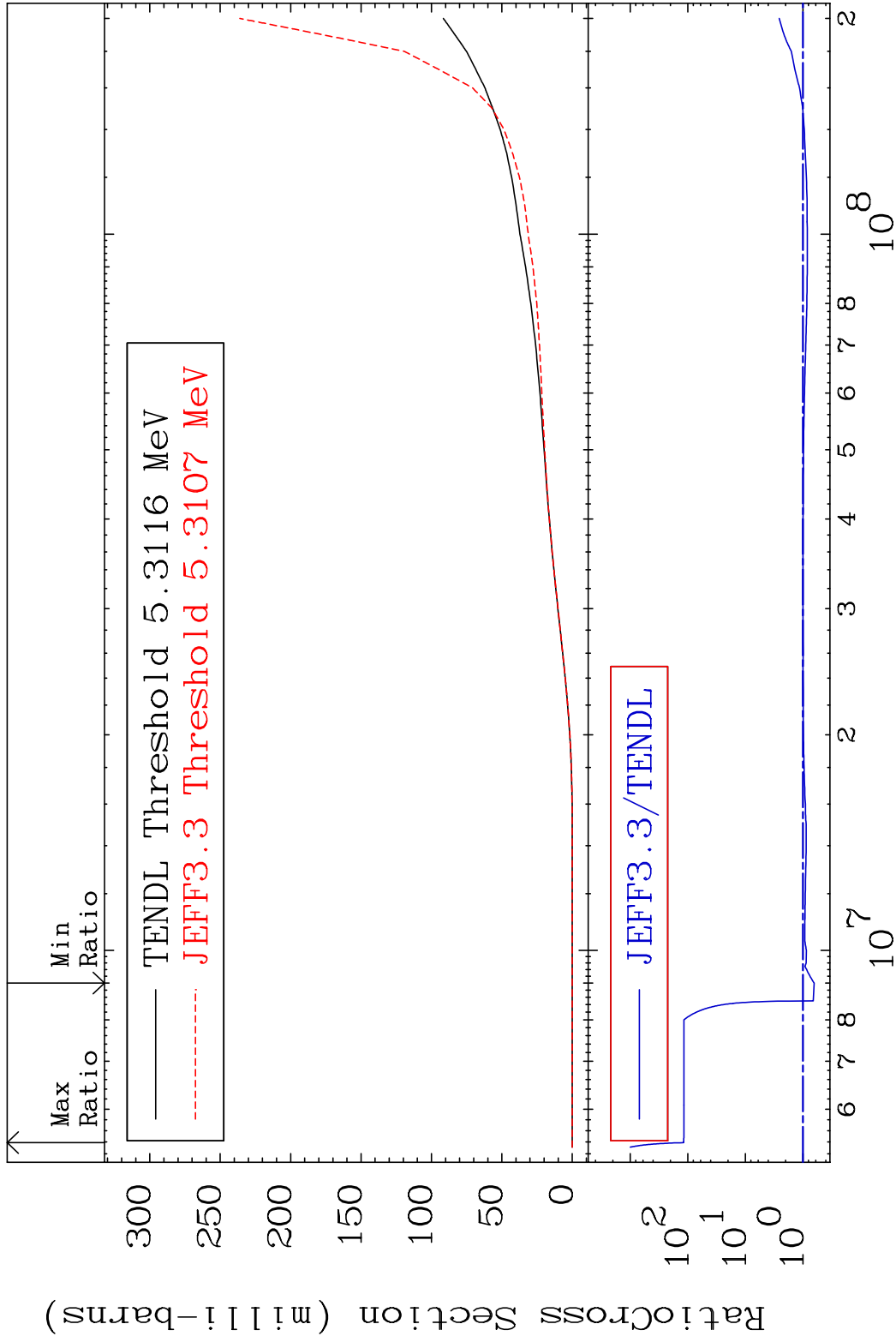
80-Hg-199

MAT 8034

Tritium Production

80-Hg-199

Cross Section -35.97 To 9999. %



63

Incident Energy (eV)

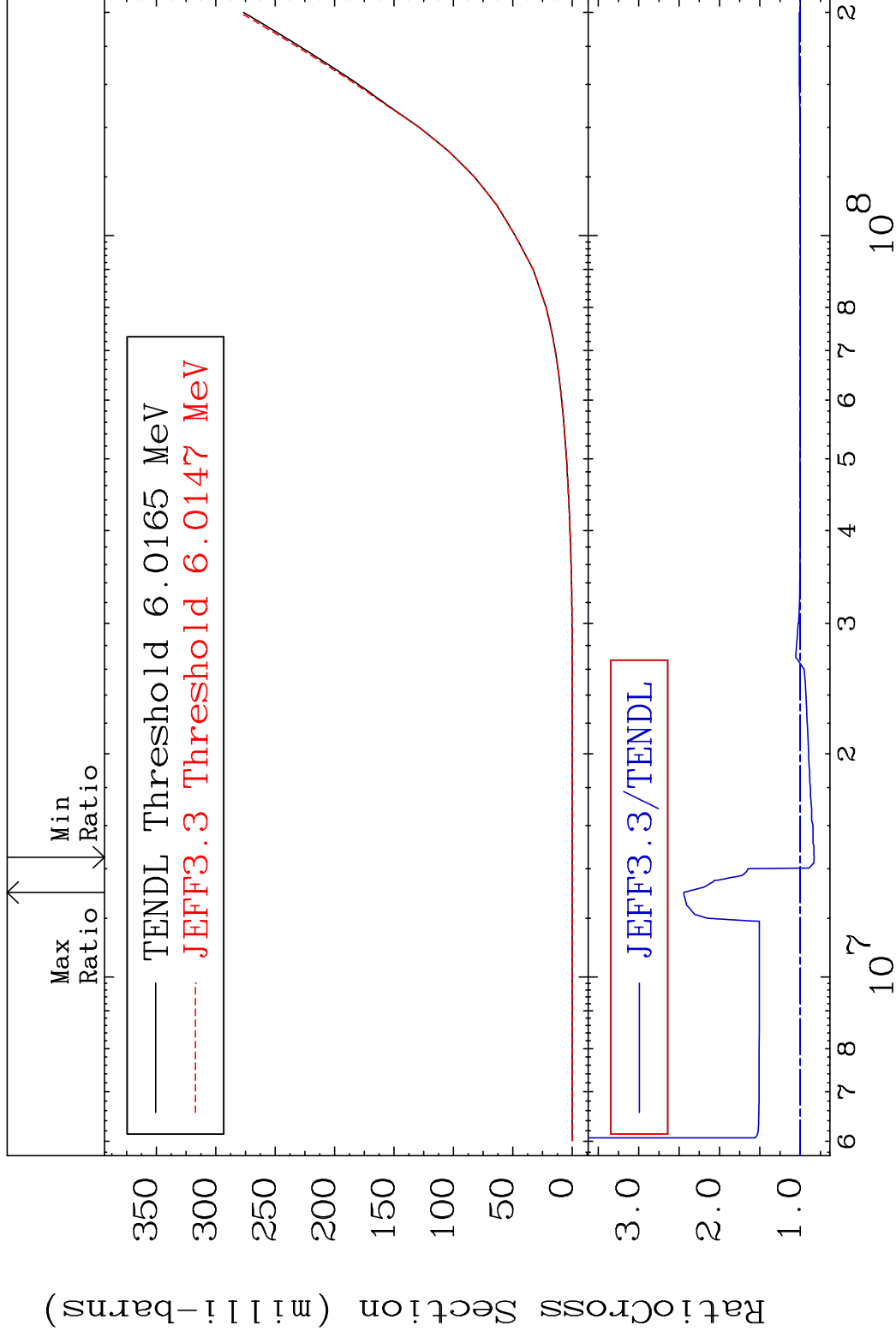
80-Hg-199

MAT 8034

He-3 Production

80-Hg-199

Cross Section -17.14 To 144.4 %



64

Incident Energy (eV)

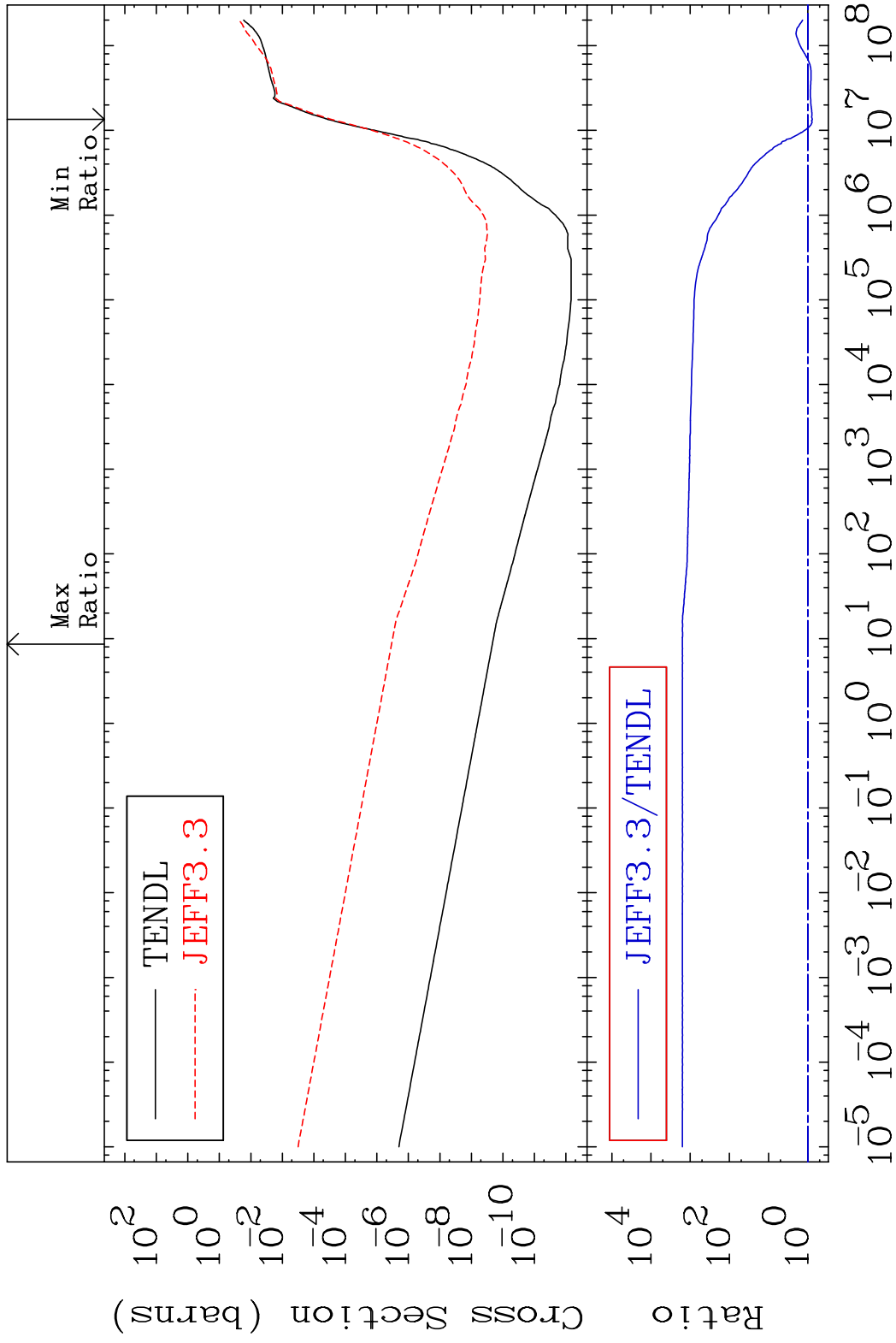
80-Hg-199

MAT 8034

He-4 Production

80-Hg-199

Cross Section -24.12 To 9999. %



65

Incident Energy (eV)

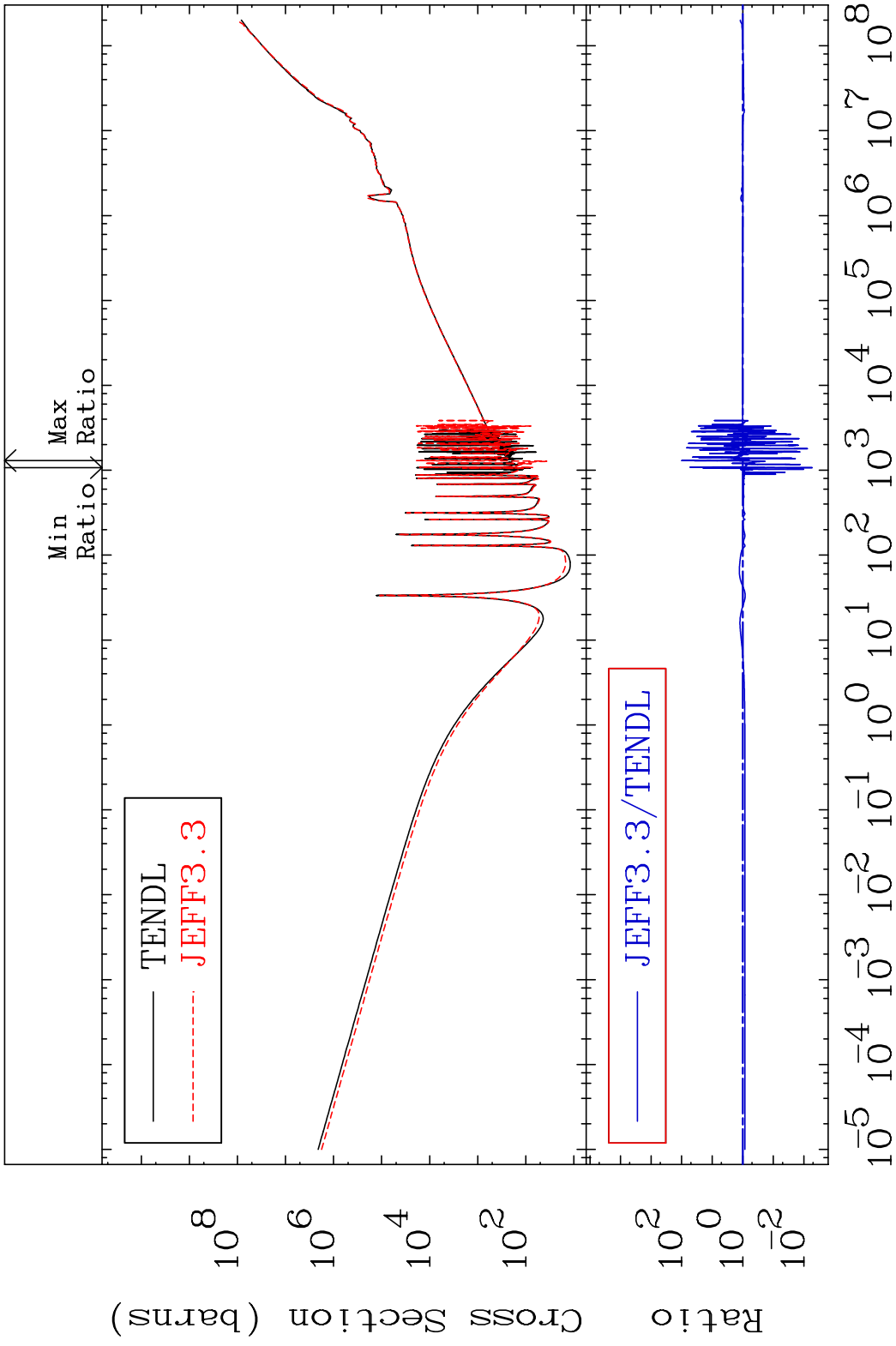
80-Hg-199

MAT 8034

Kerma total (eV-barns)

80-Hg-199

Cross Section -99.47 To 9834. %



66

Incident Energy (eV)

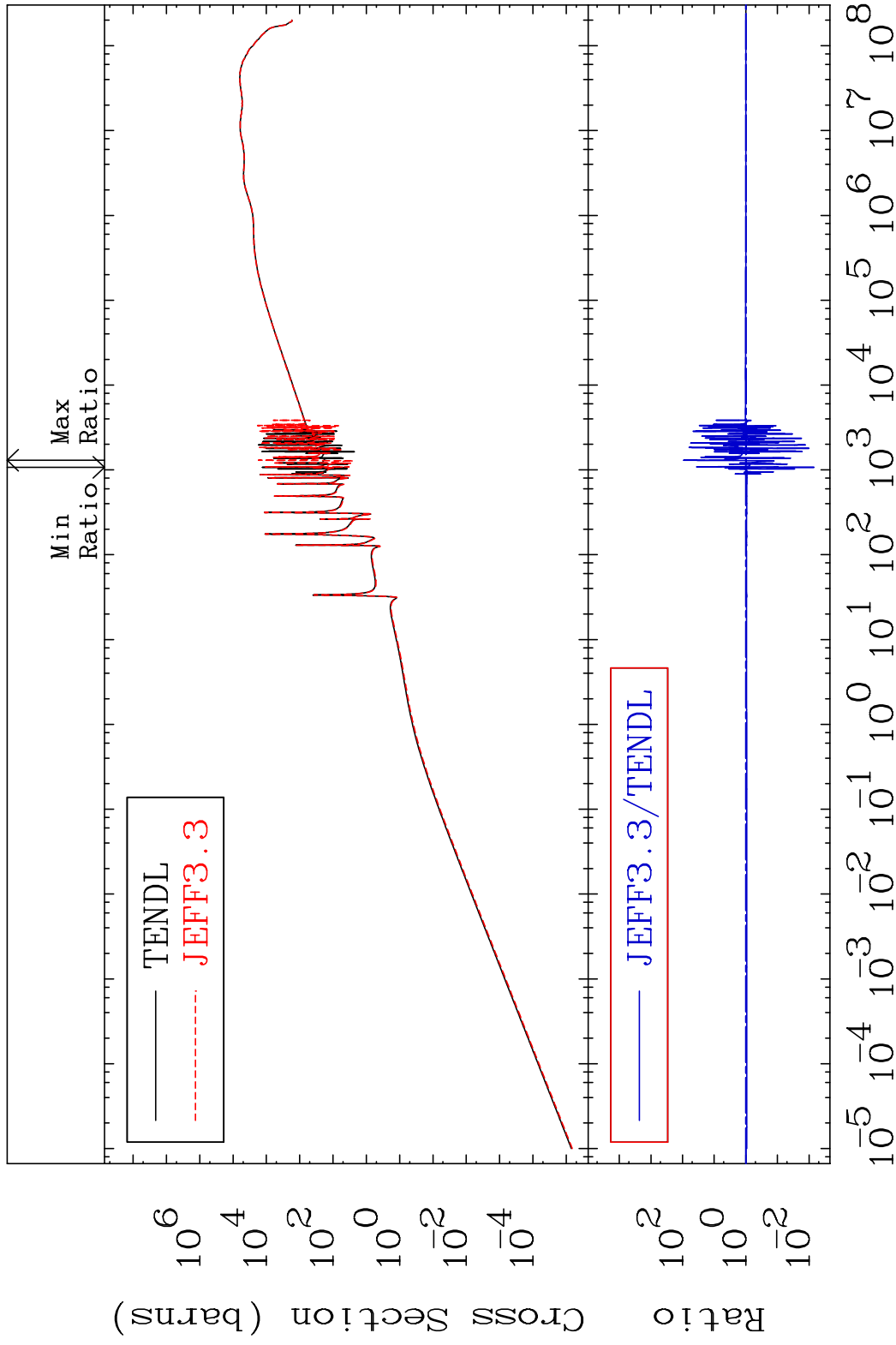
80-Hg-199

MAT 8034

Kerma elastic

80-Hg-199

Cross Section -99.31 To 9122. %

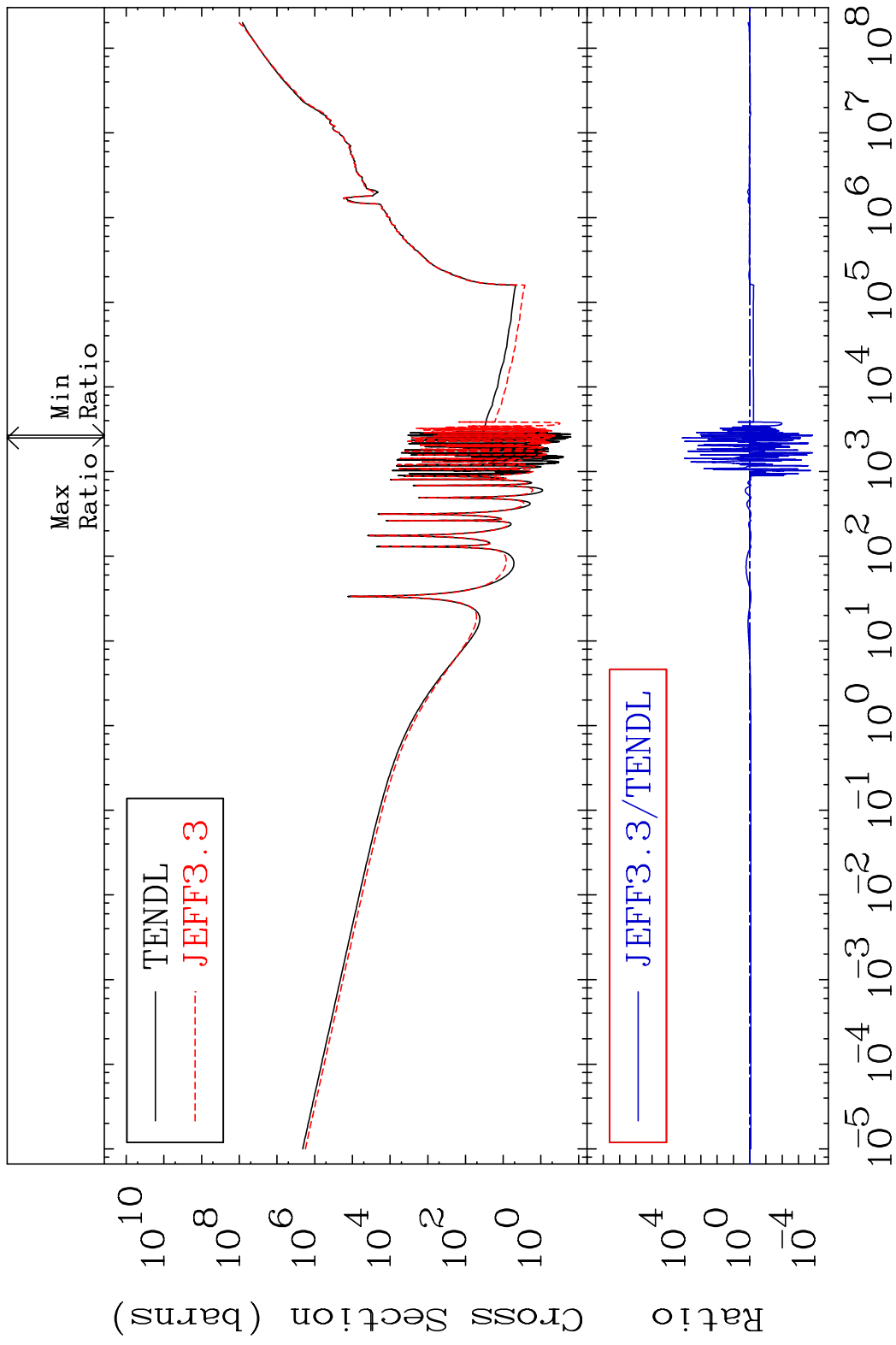


67

Incident Energy (eV)

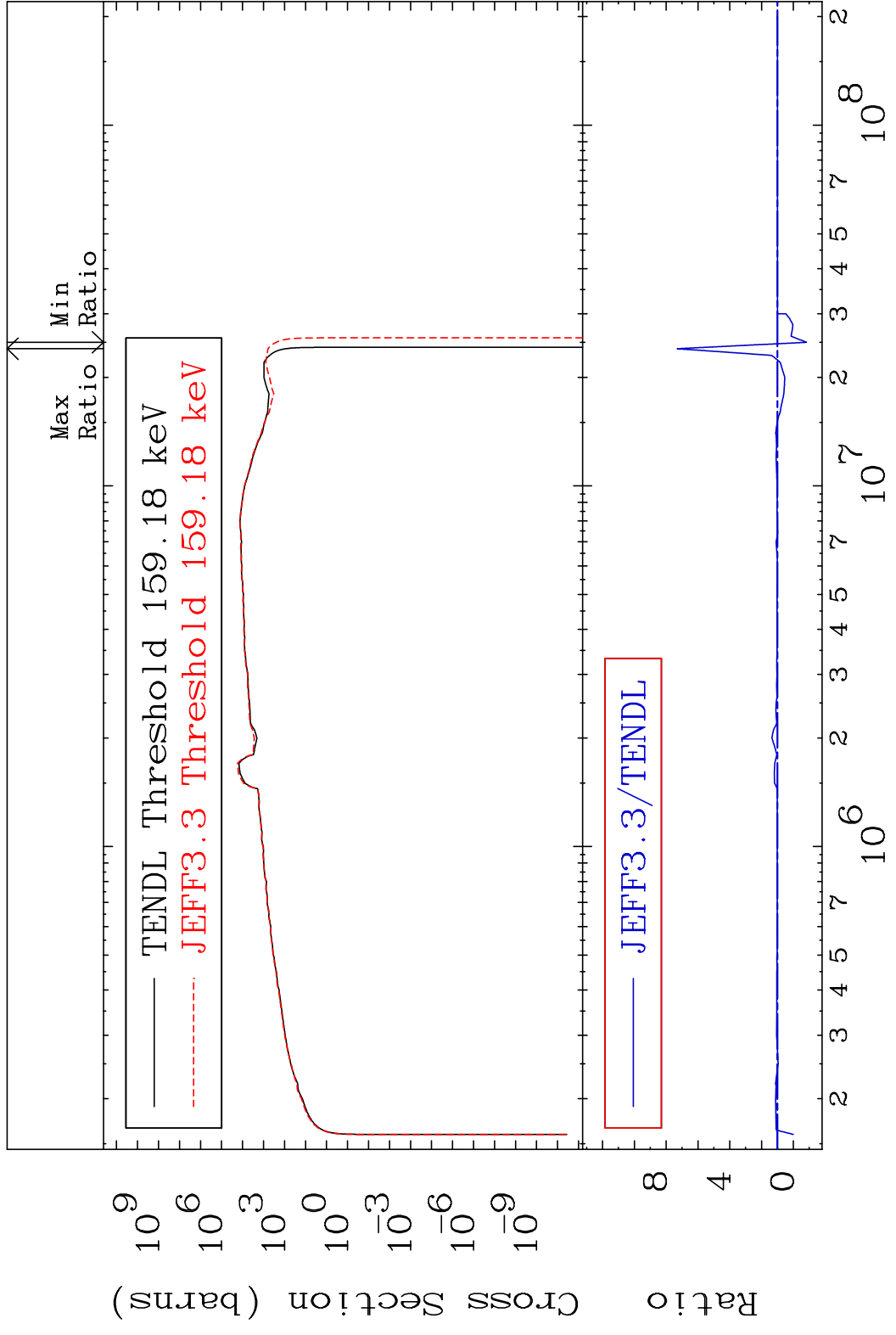
80-Hg-199

MAT 8034 Kerma non-elastic (all but mt2) 80-Hg-199
 Cross Section -99.99 To 9999. %

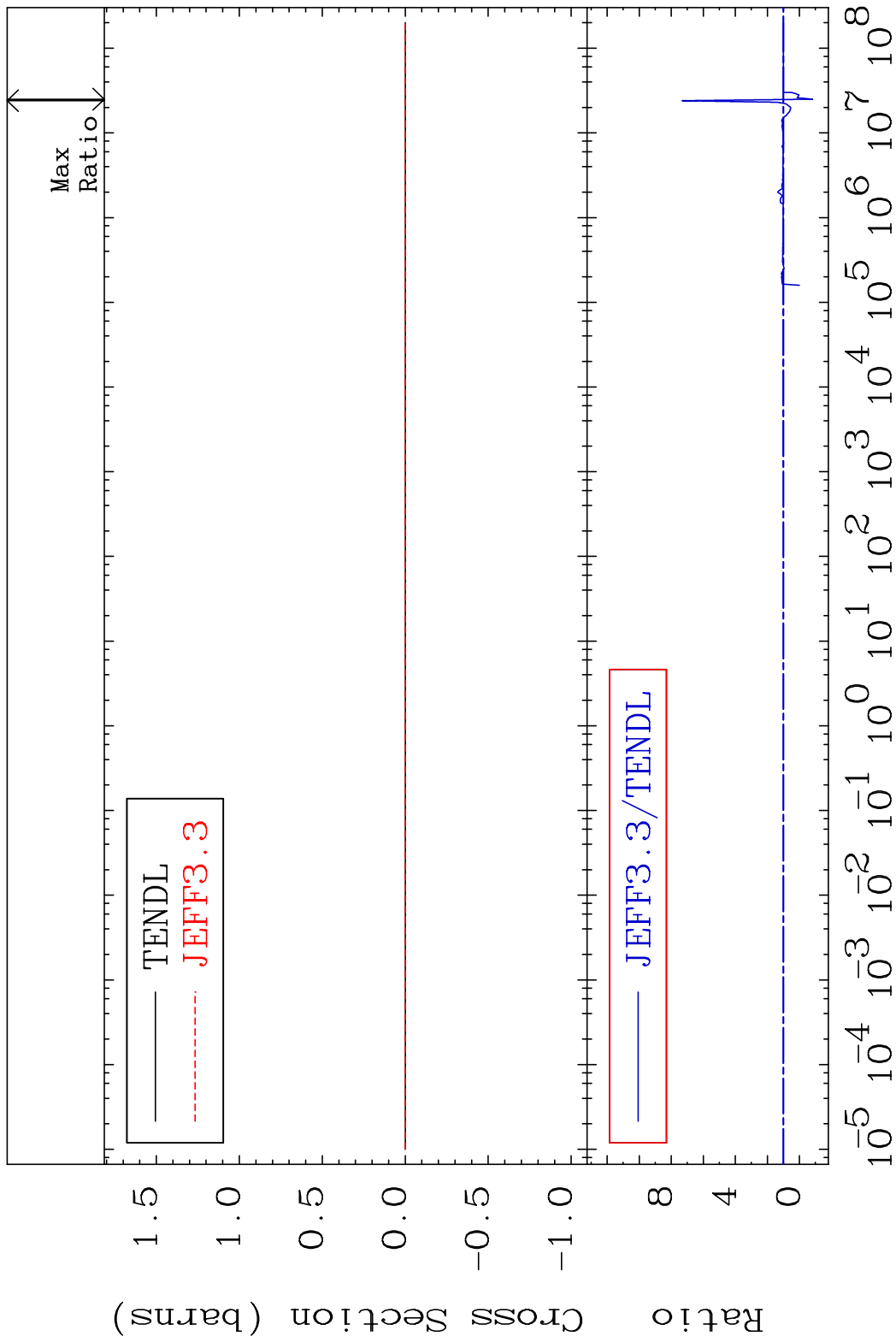


68 Incident Energy (eV) 80-Hg-199

MAT 8034 Kerma inelastic (mt51-91) 80-Hg-199
 Cross Section -182.2 To 630.6 %



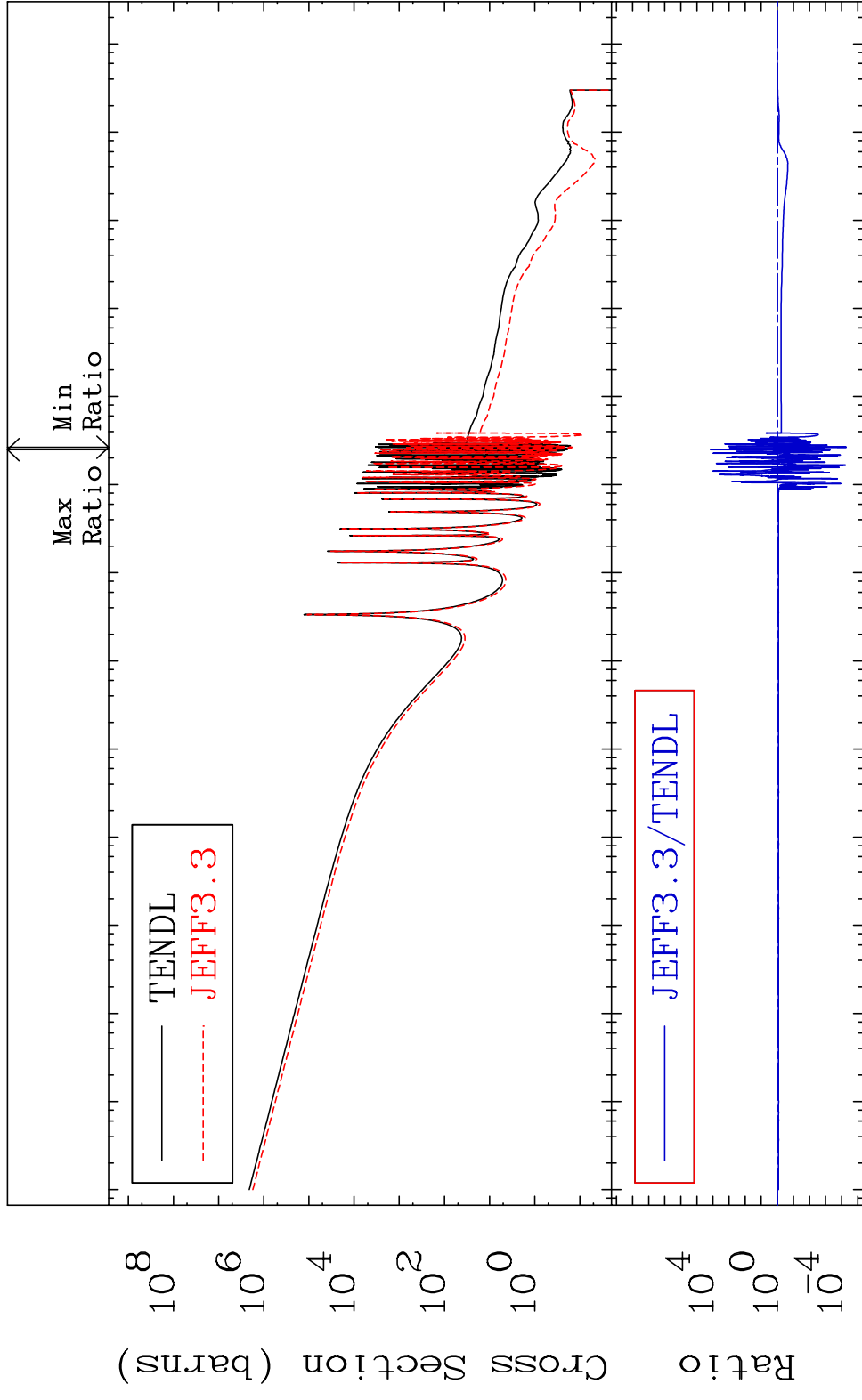
MAT 8034 Kerma fission (mt18 or mt19-20-21-38)80-Hg-199
 Cross Section -182.2 To 630.6 %



70 Incident Energy (eV) 80-Hg-199

MAT 8034

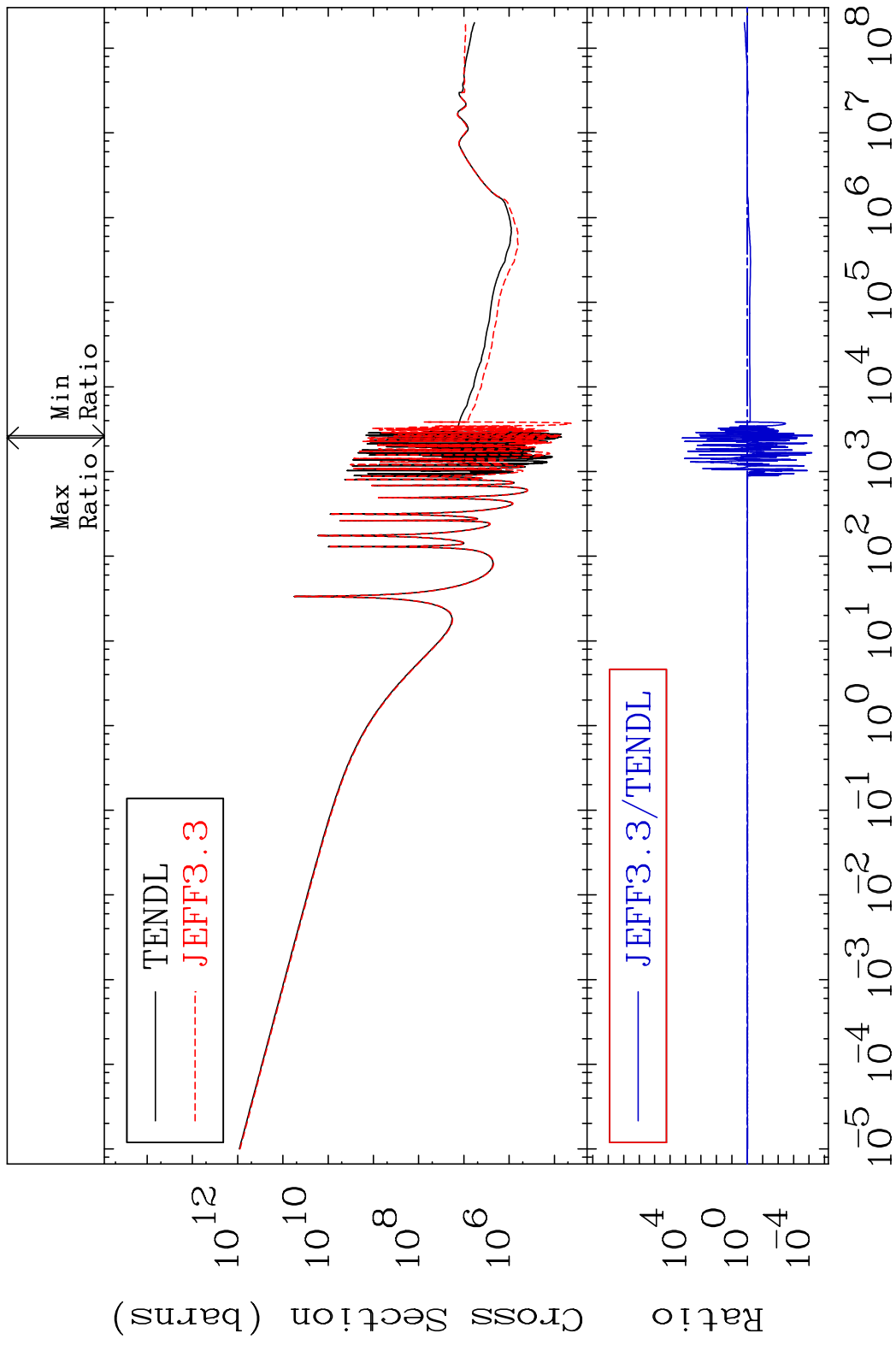
Kerma capture (mt102) 80-Hg-199
Cross Section -99.99 To 9999. %



71

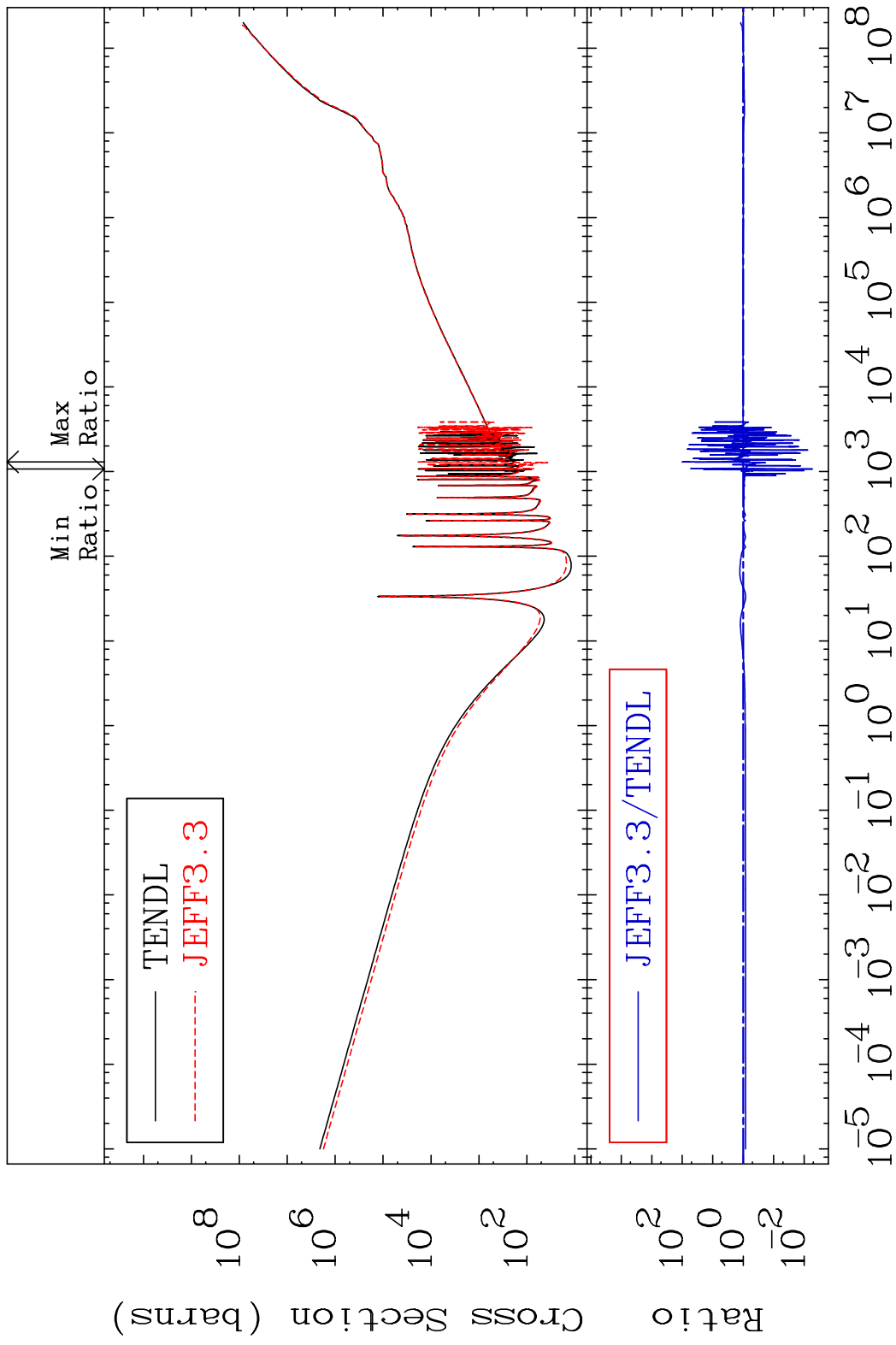
Incident Energy (eV) 80-Hg-199

MAT 8034 Total photon (eV-barns) 80-Hg-199
 Cross Section -99.99 To 9999. %



72 Incident Energy (eV) 80-Hg-199

MAT 8034 Total kinematic kerma (high limit) 80-Hg-199
 Cross Section -99.47 To 9834. %

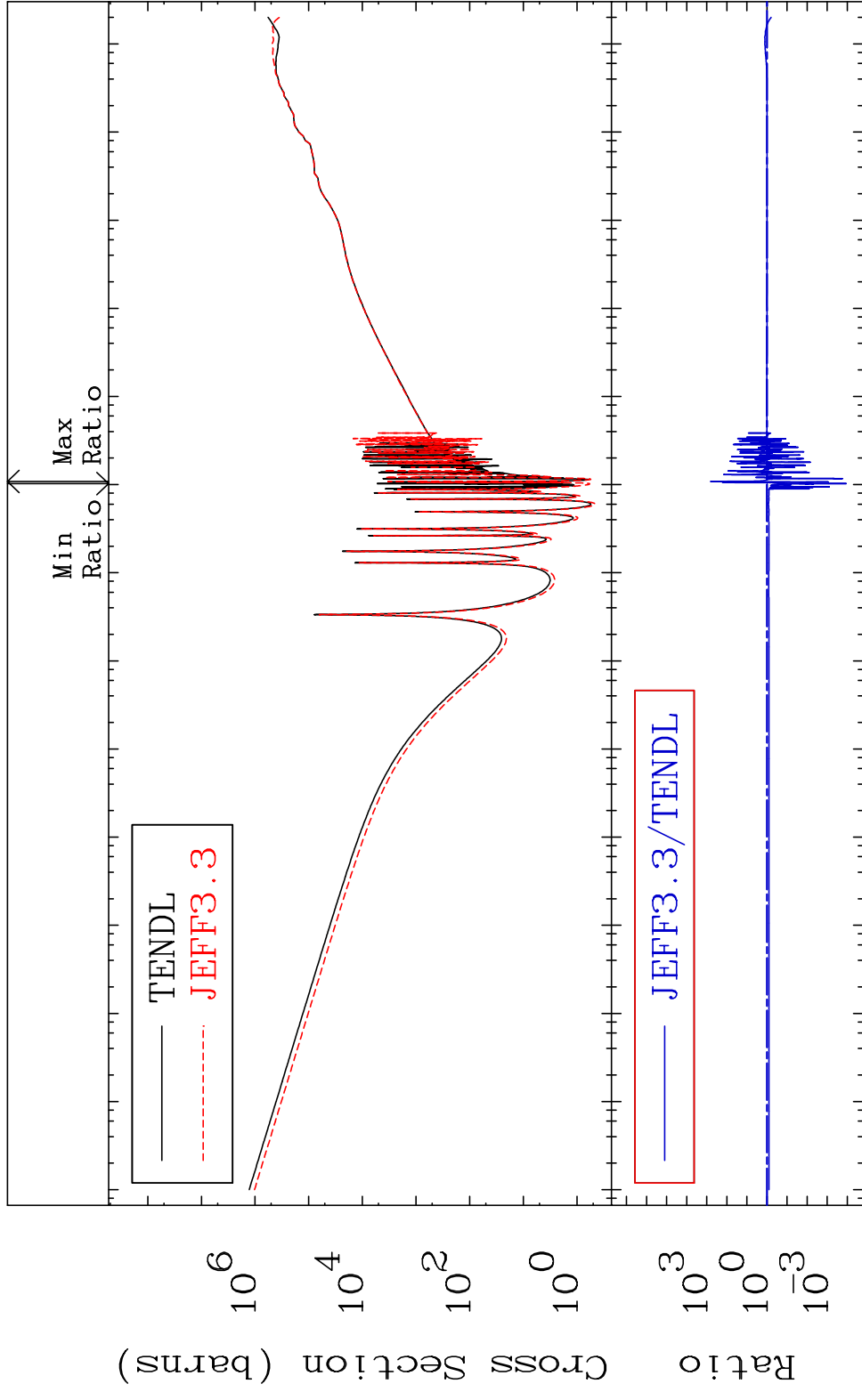


MAT 8034

Dpa total (eV-barns)

80-Hg-199

Cross Section -99.99 To 9999. %



74

Incident Energy (eV)

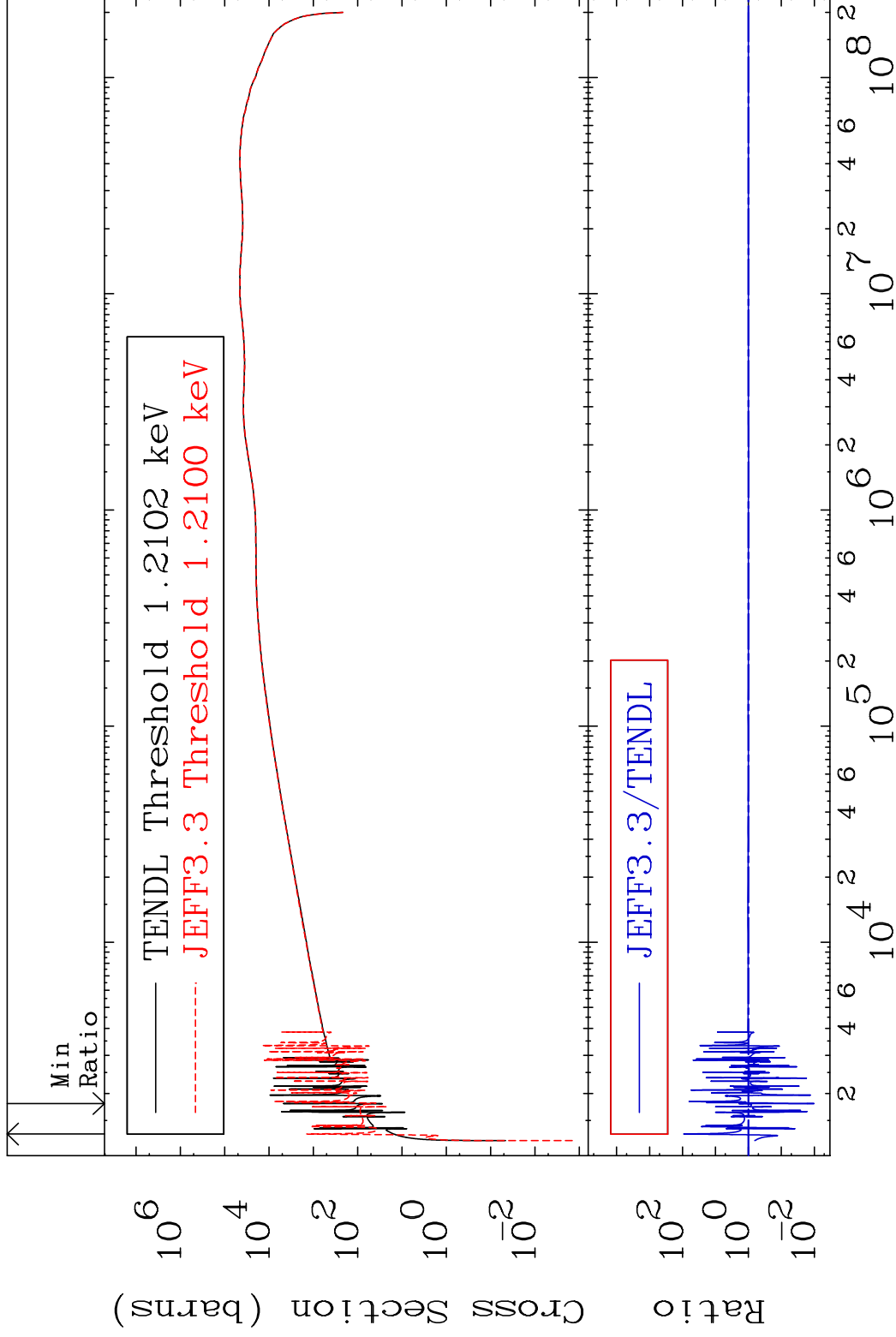
80-Hg-199

MAT 8034

Dpa elastic (mt2)

80-Hg-199

Cross Section -98.99 To 9122. %

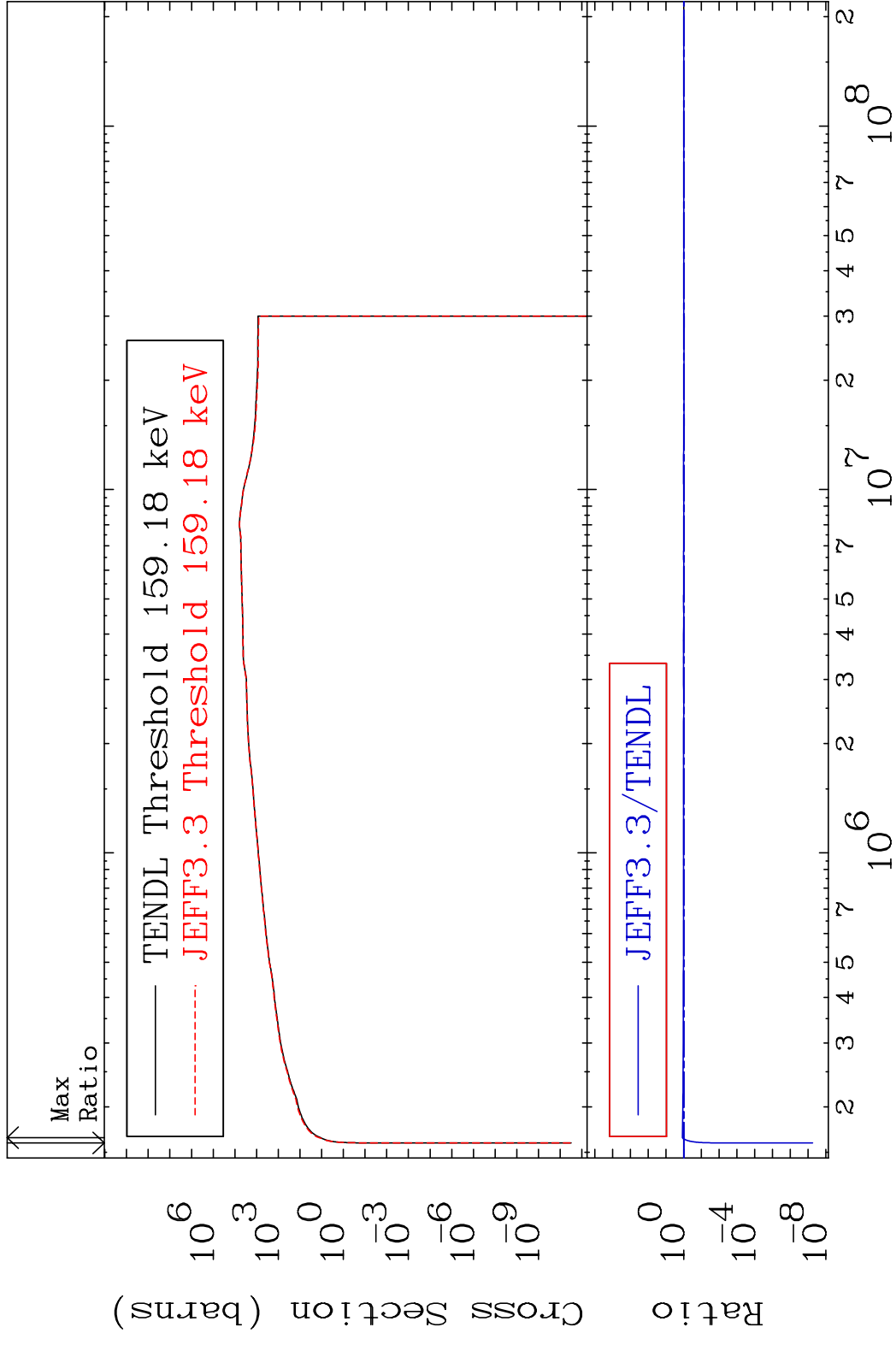


75

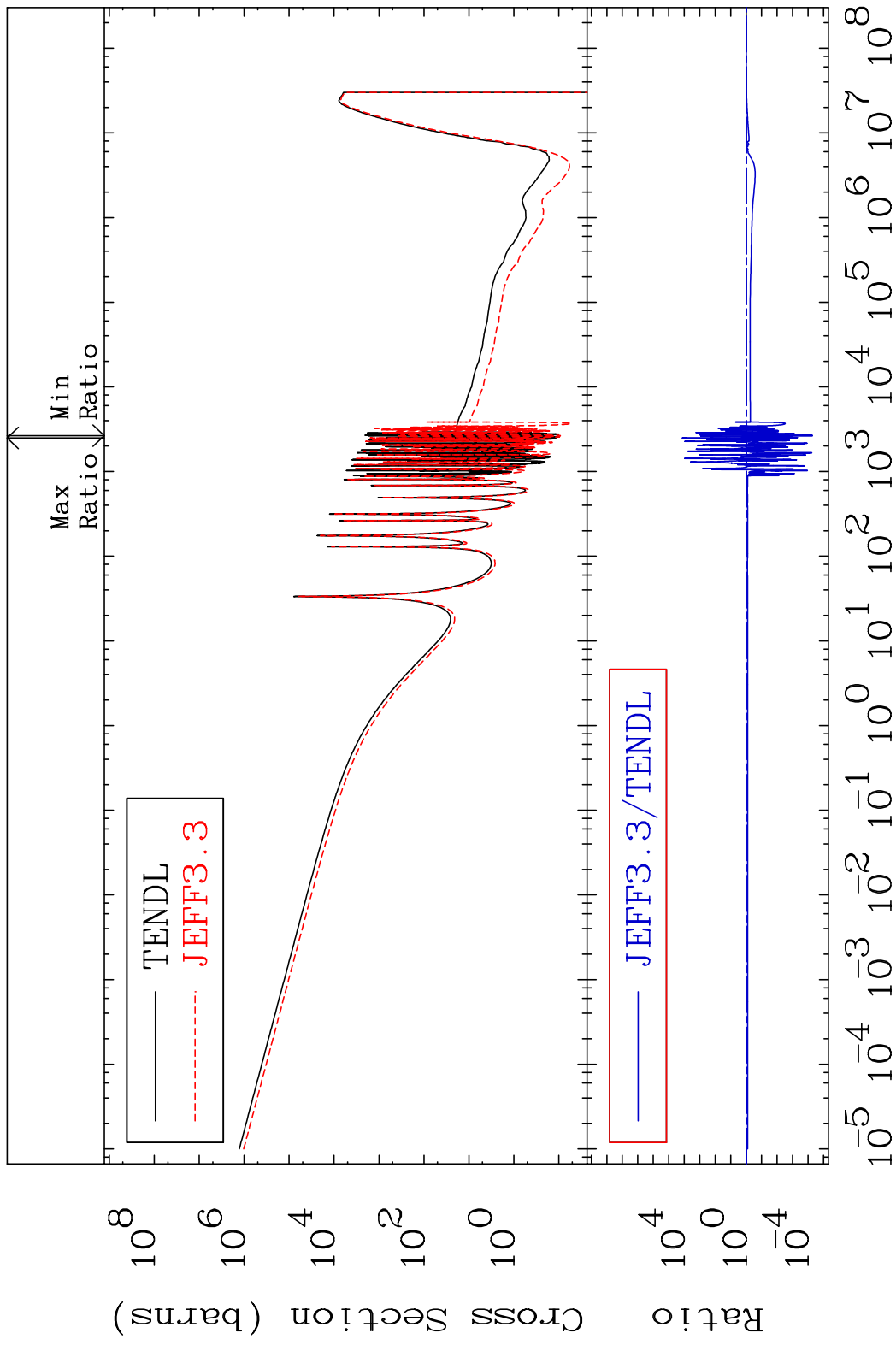
Incident Energy (eV)

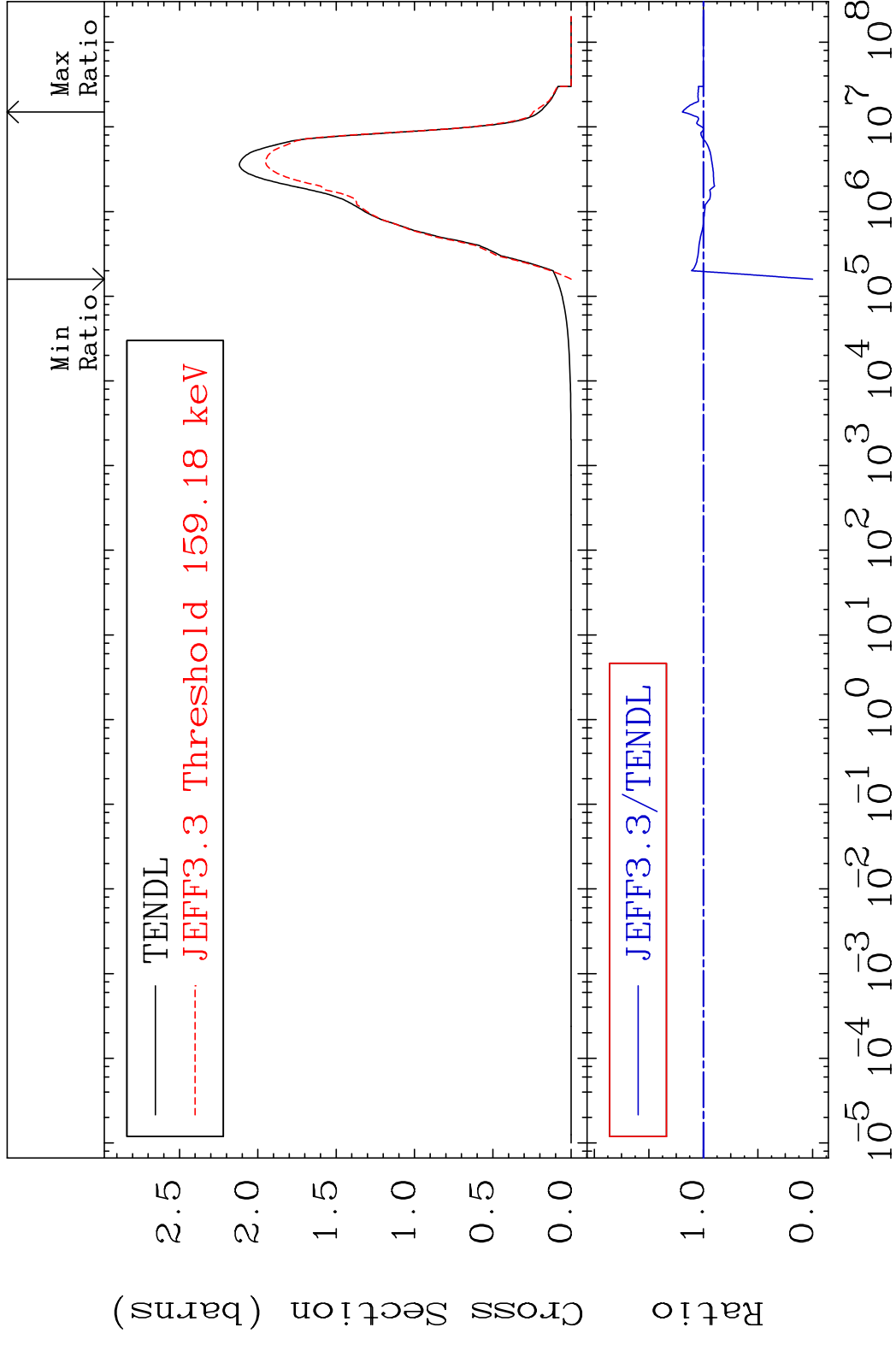
80-Hg-199

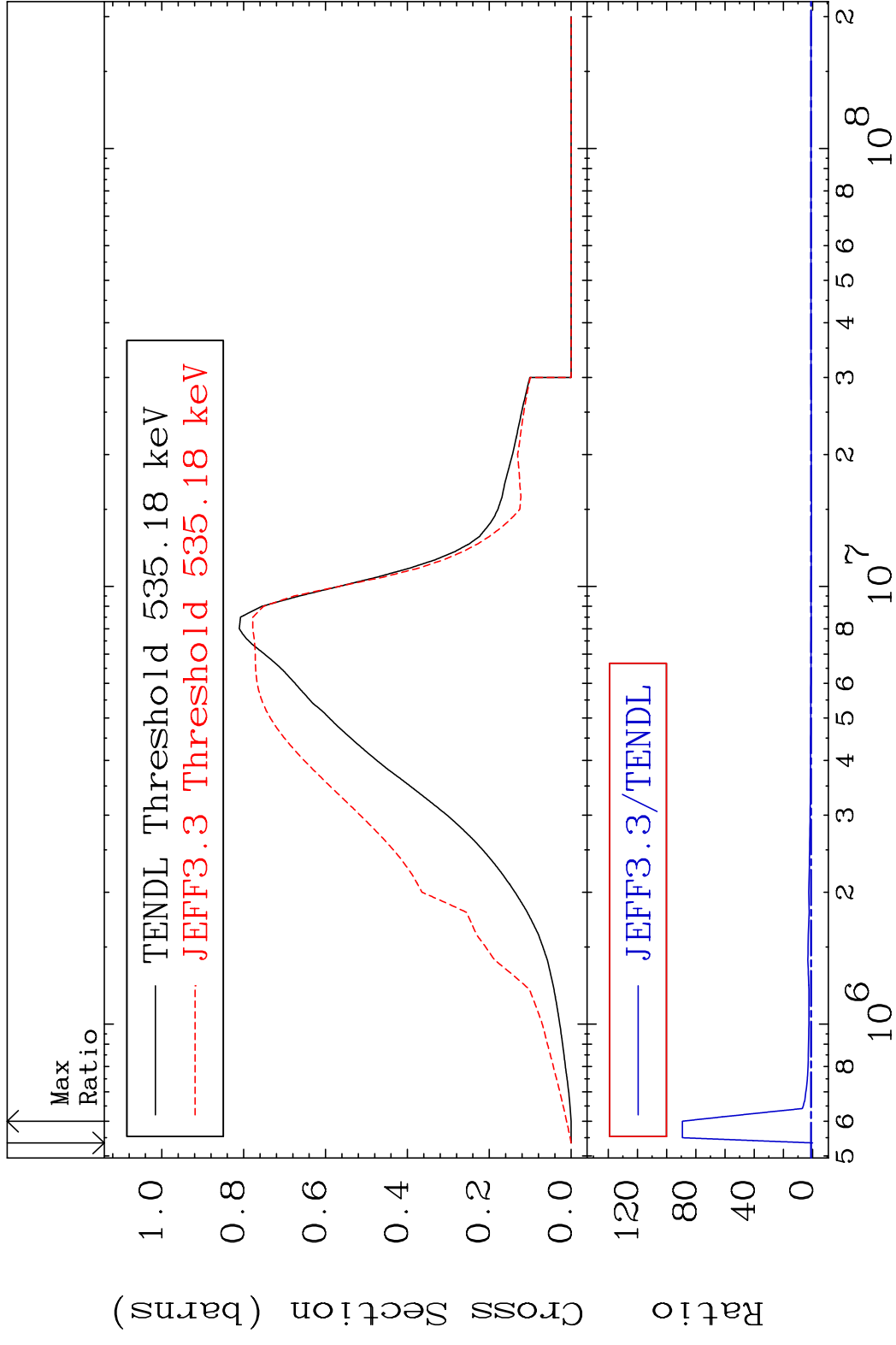
MAT 8034 Dpa inelastic (mt51-91) 80-Hg-199
 Cross Section -100.0 To 18.26 %



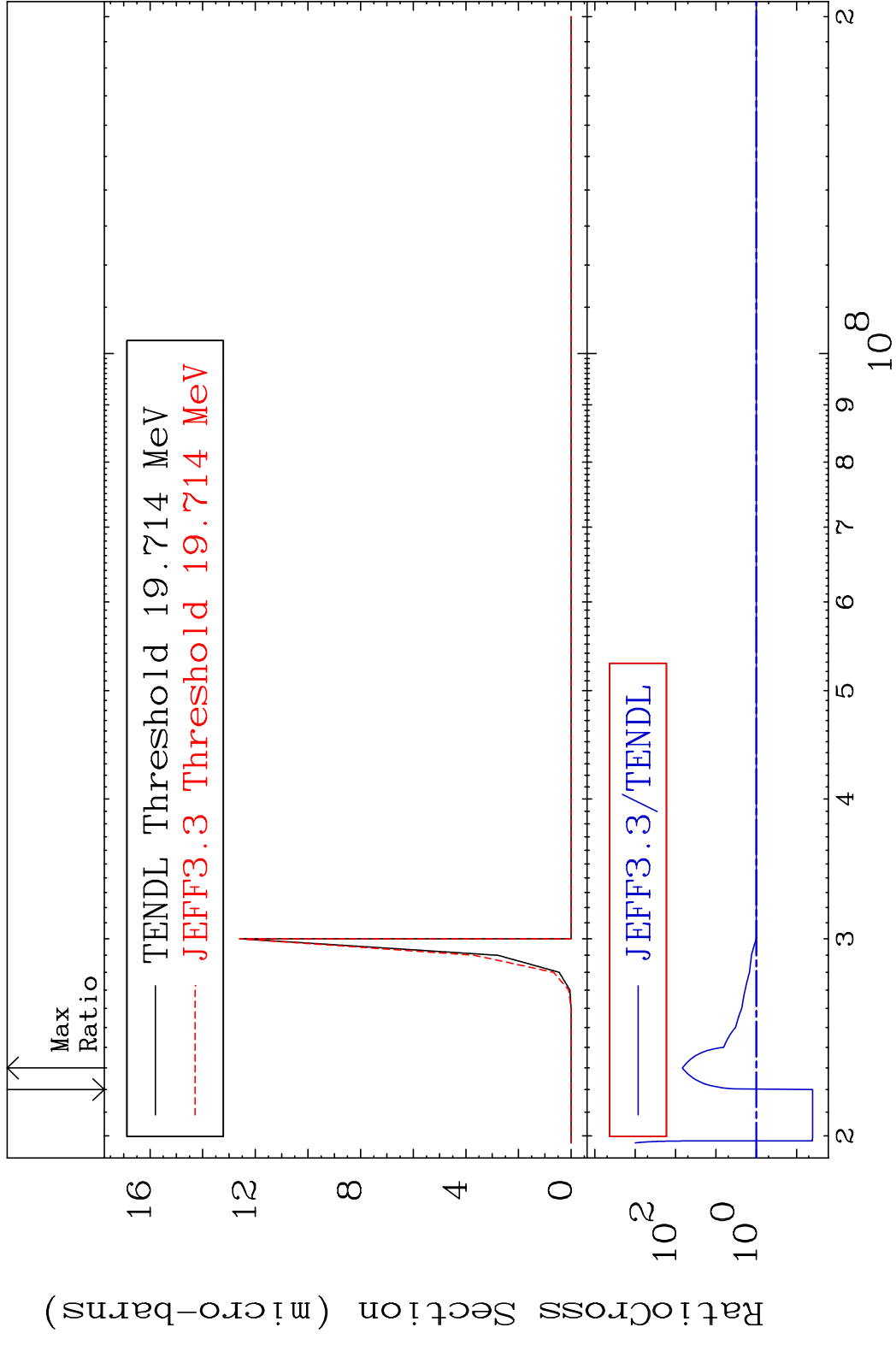
MAT 8034 Dpa disappearance (mt102 -120) 80-Hg-199
 Cross Section -99.99 To 9999. %

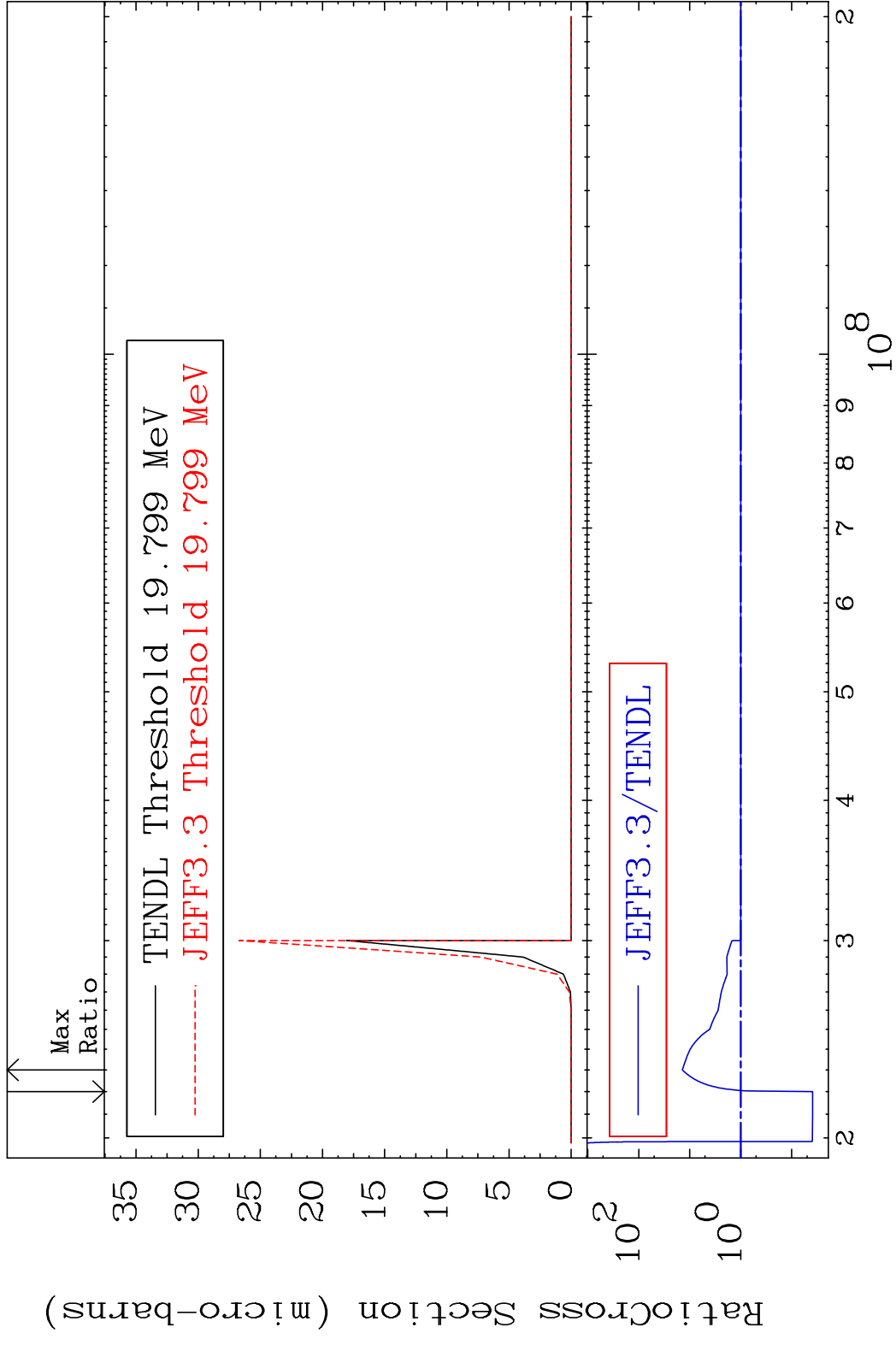




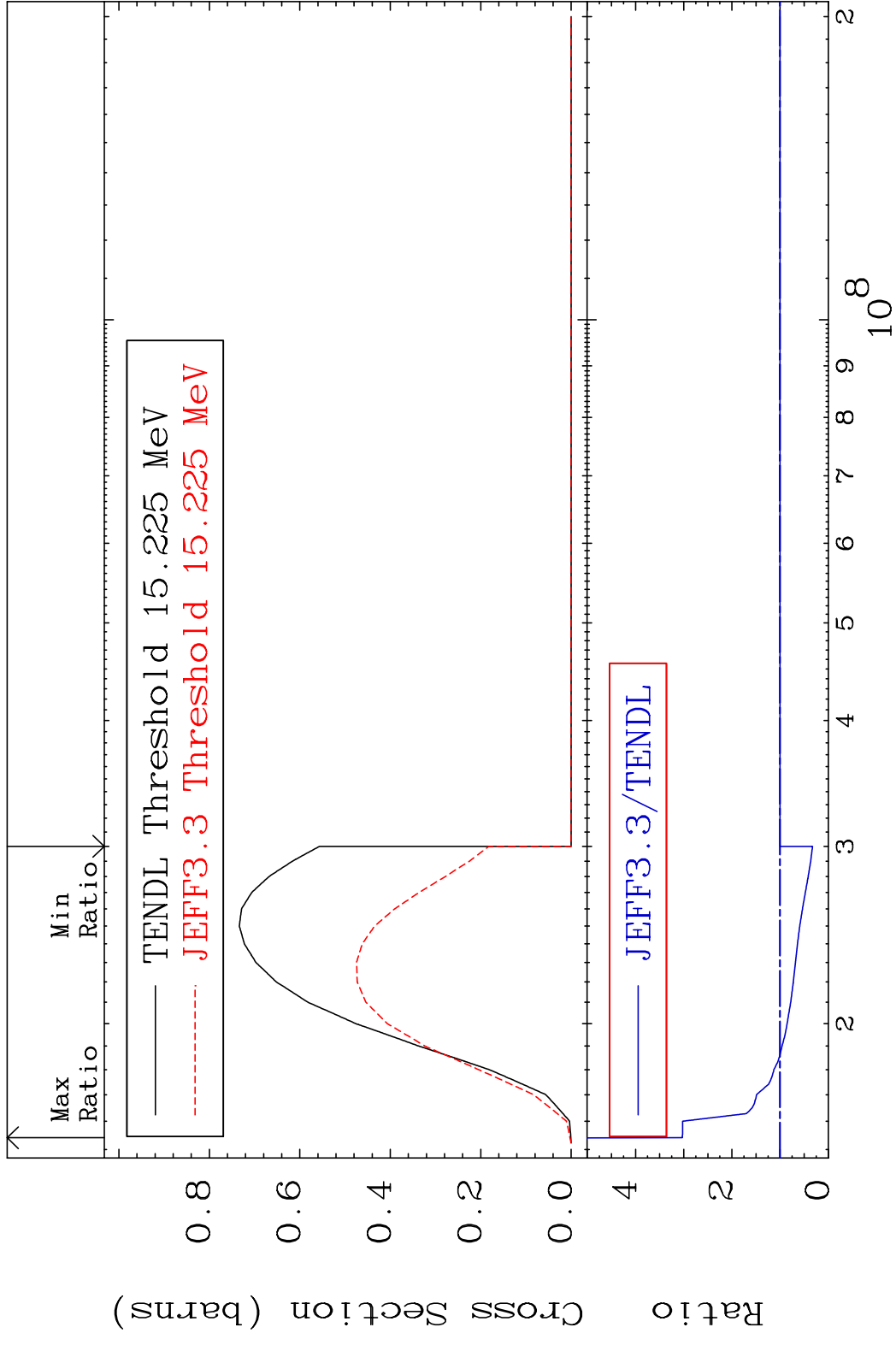


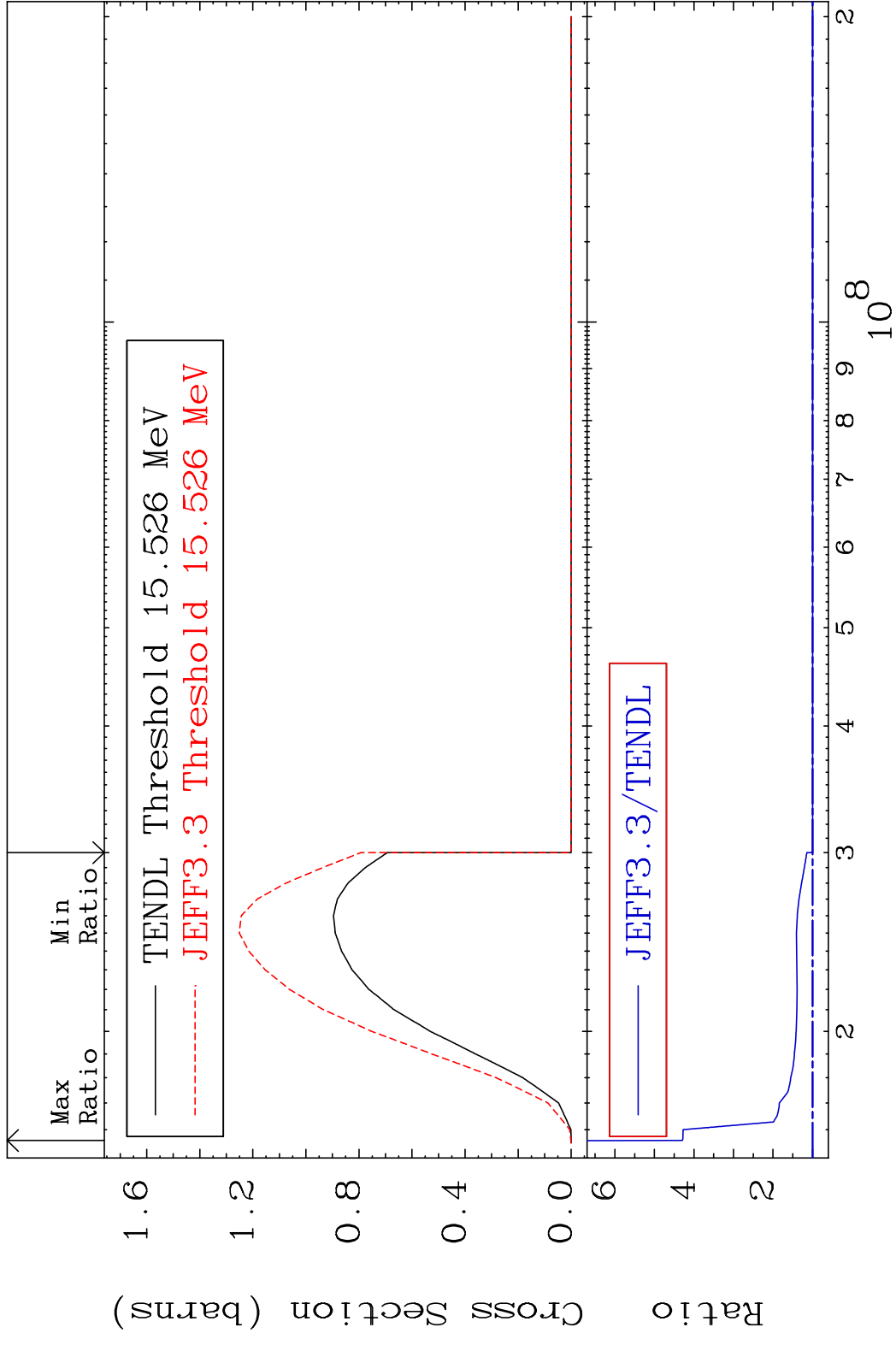
MAT 8034 (n,2n) d:79-Au-196g 80-Hg-199
 Radionuclide Production Cross Section 95.95 dth 6713. %

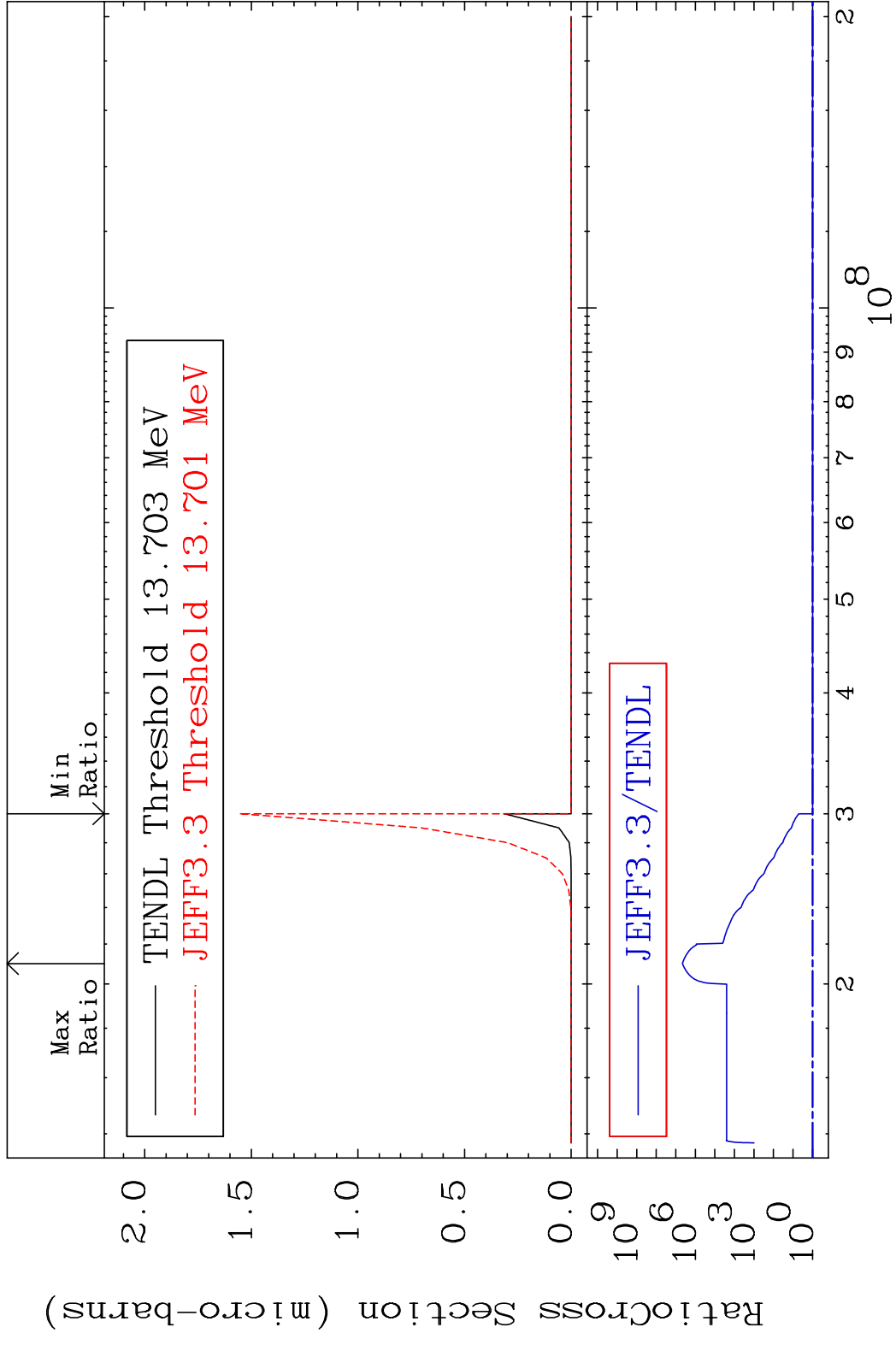


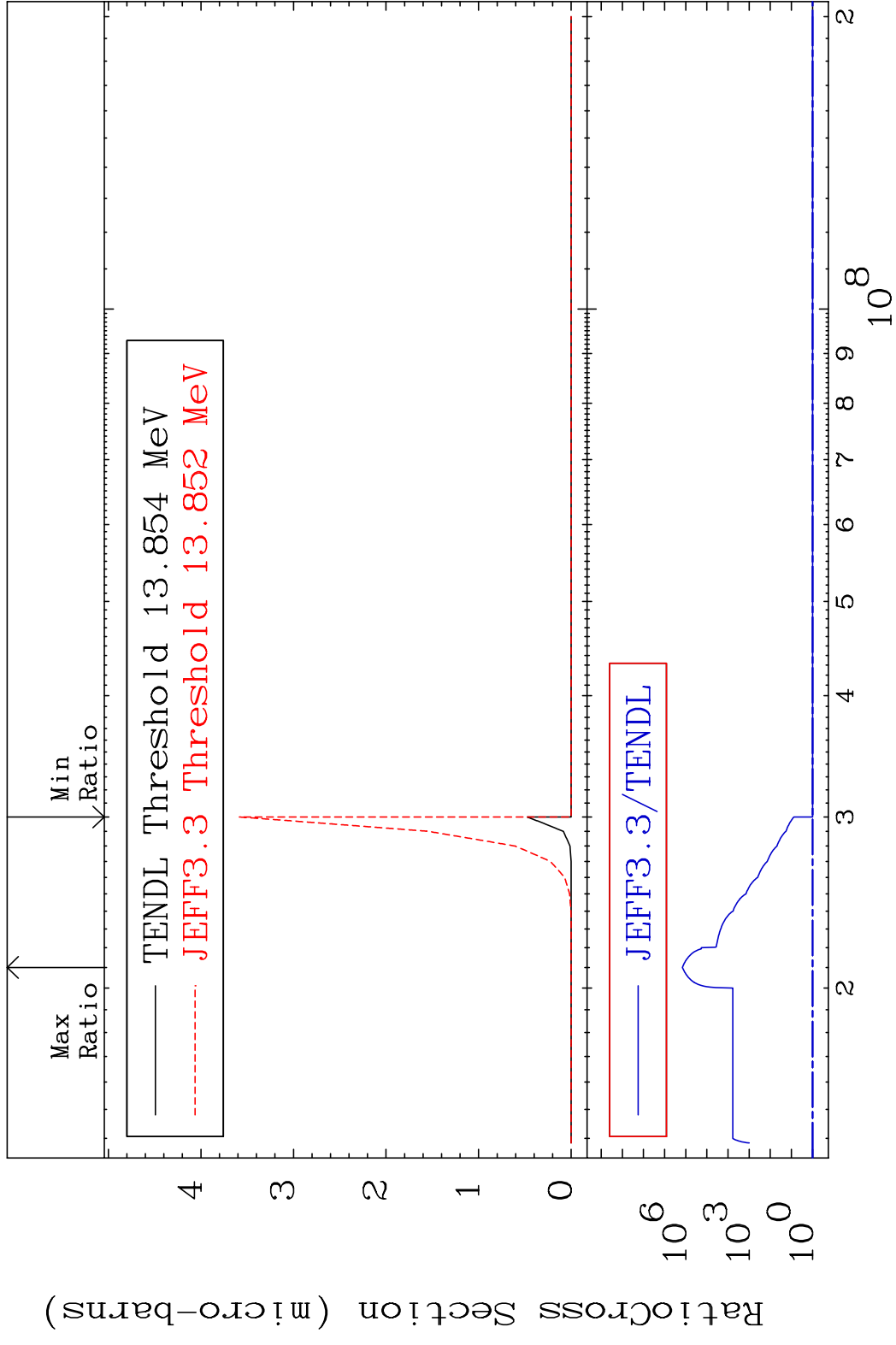


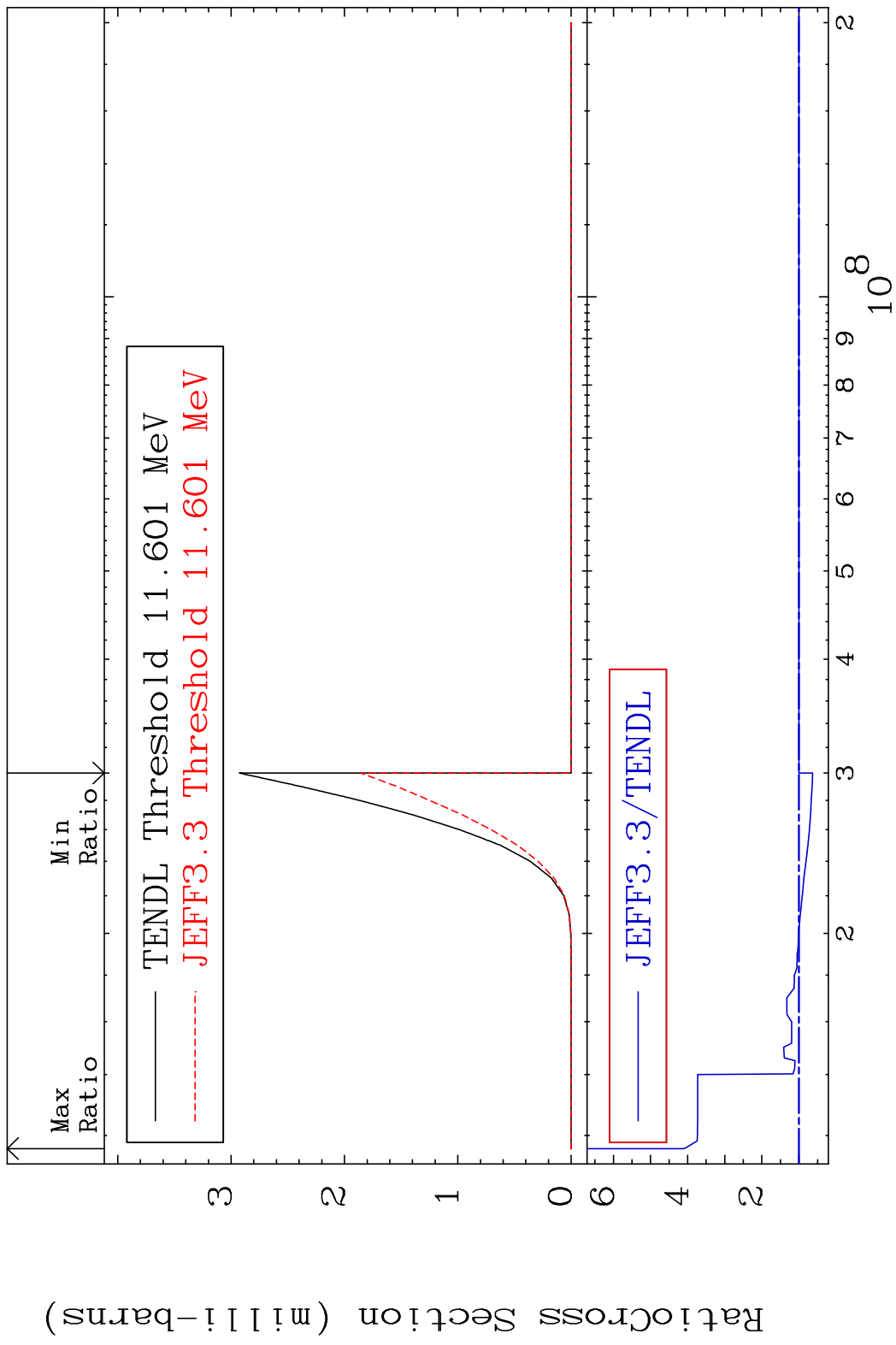
MAT 8034 (n,3n):80-Hg-197g 80-Hg-199
 Radionuclide Production Cross Section 65e371d0 202.8 %

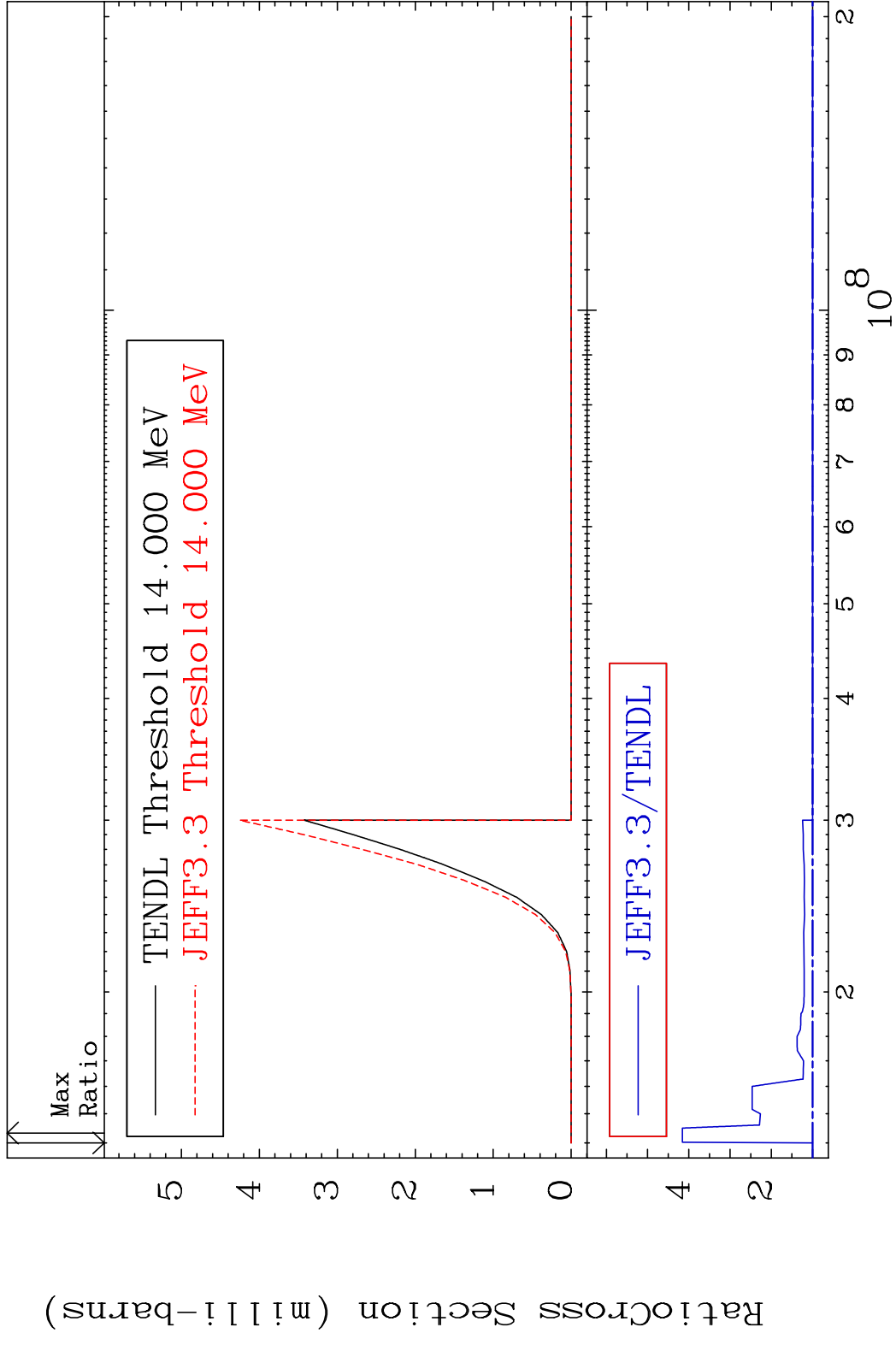


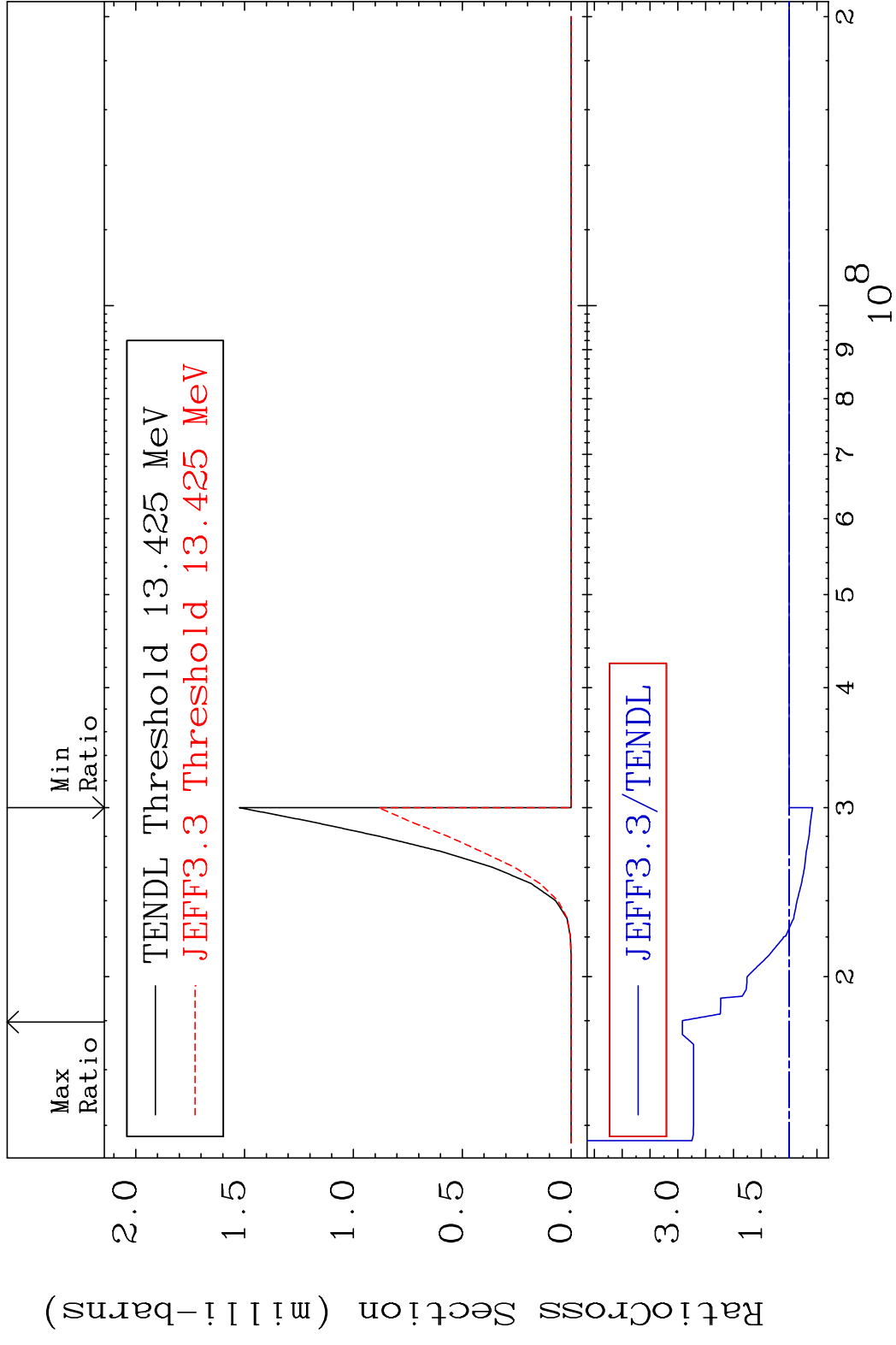


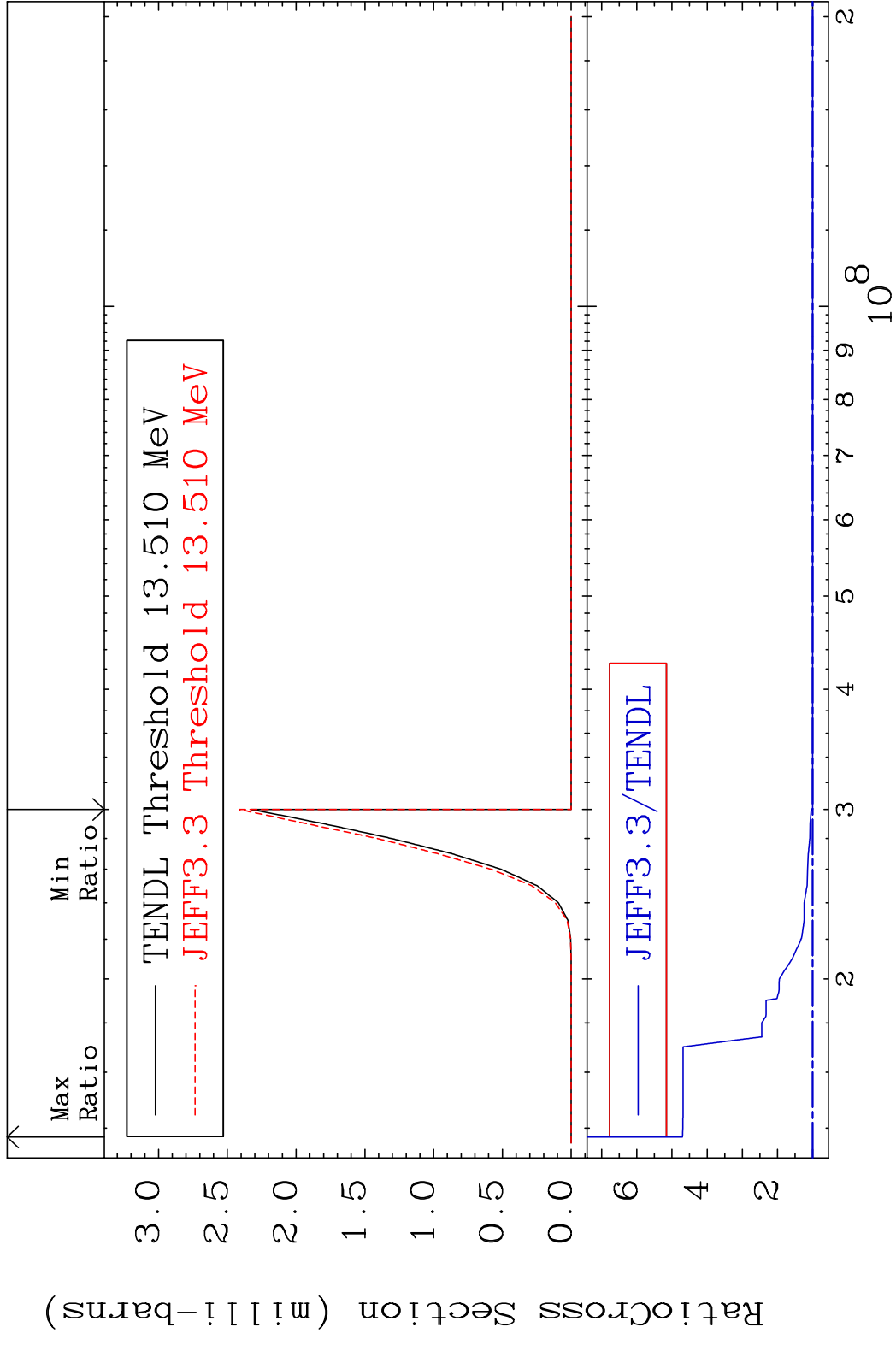


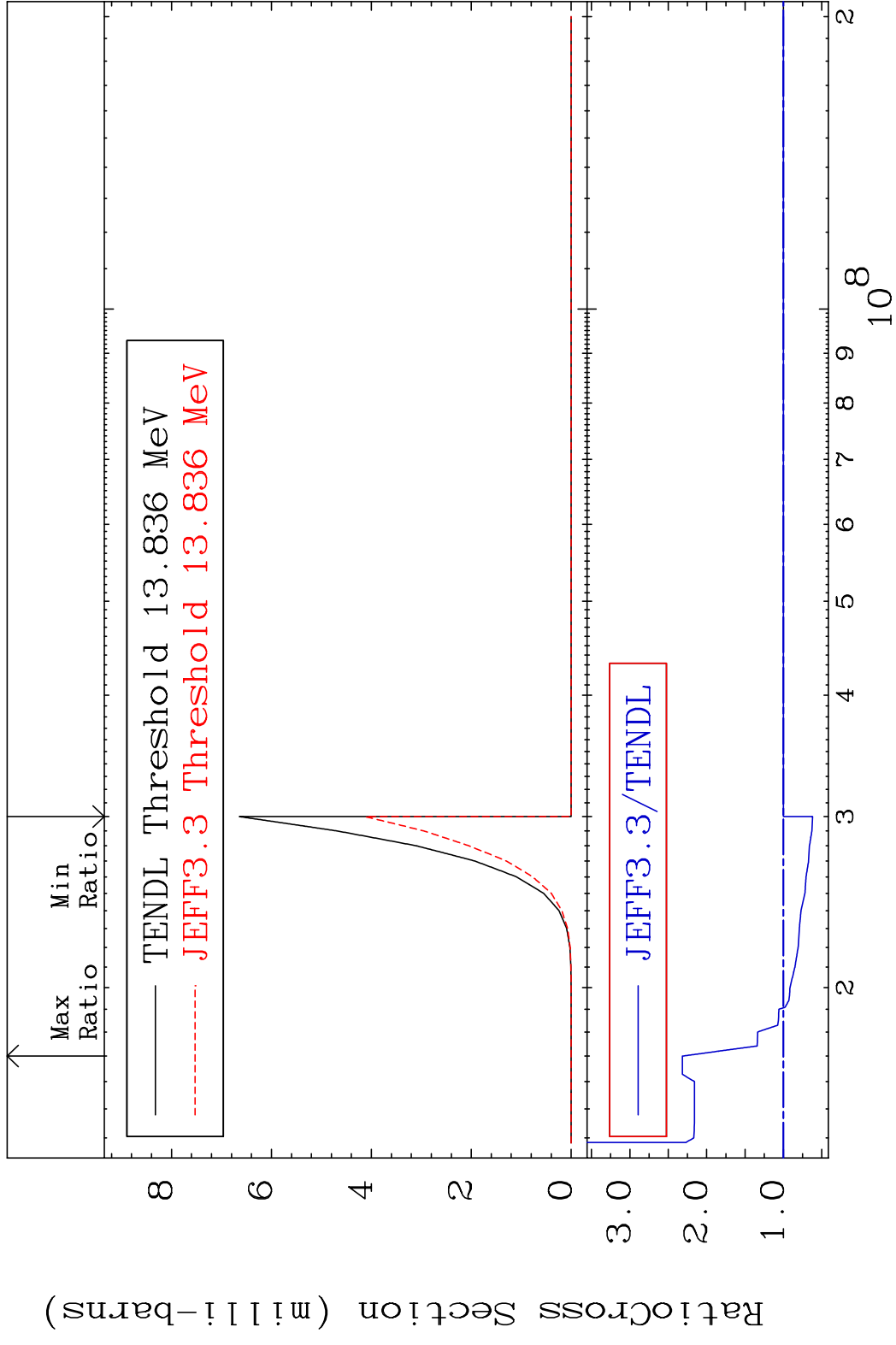


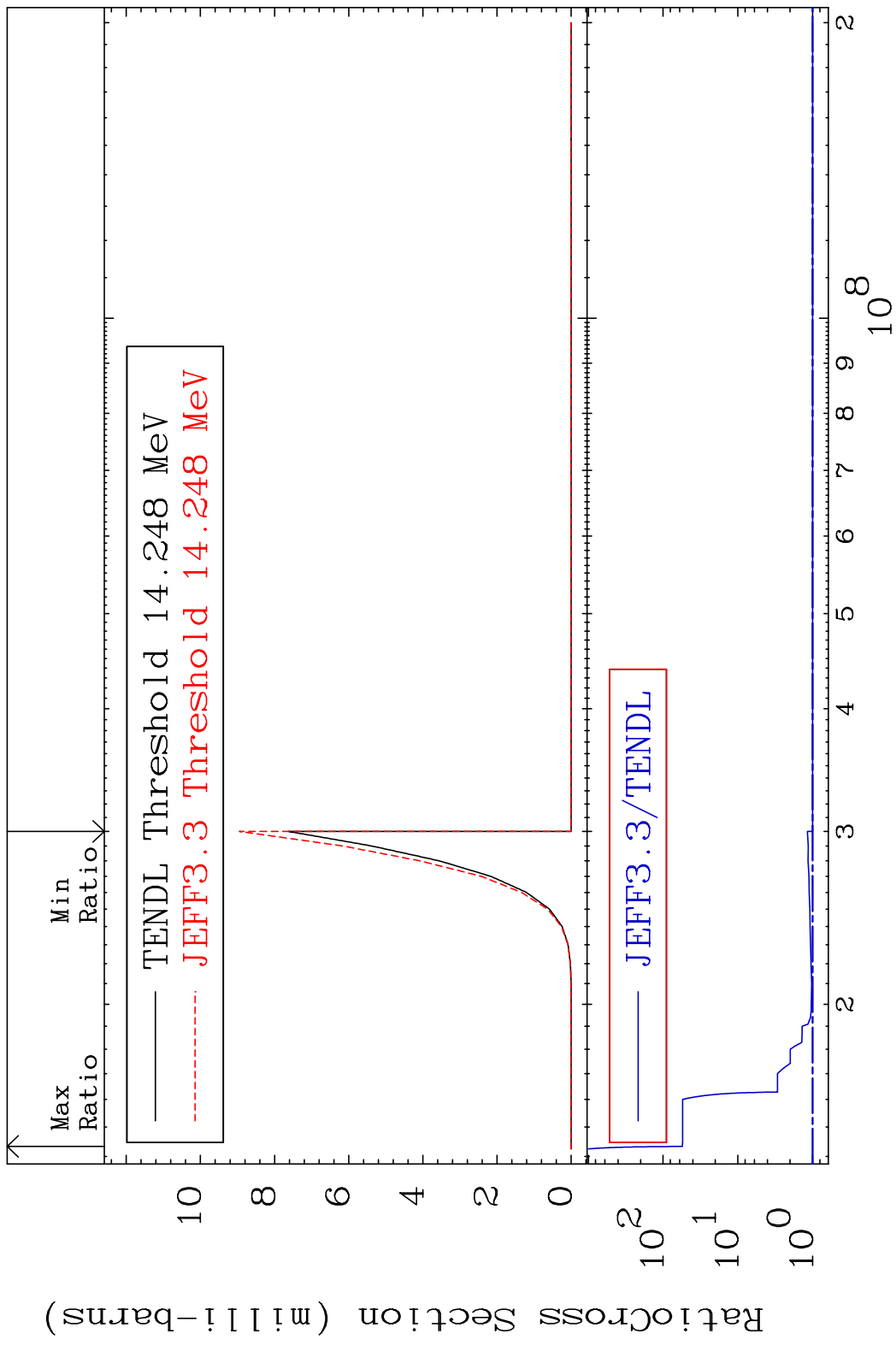


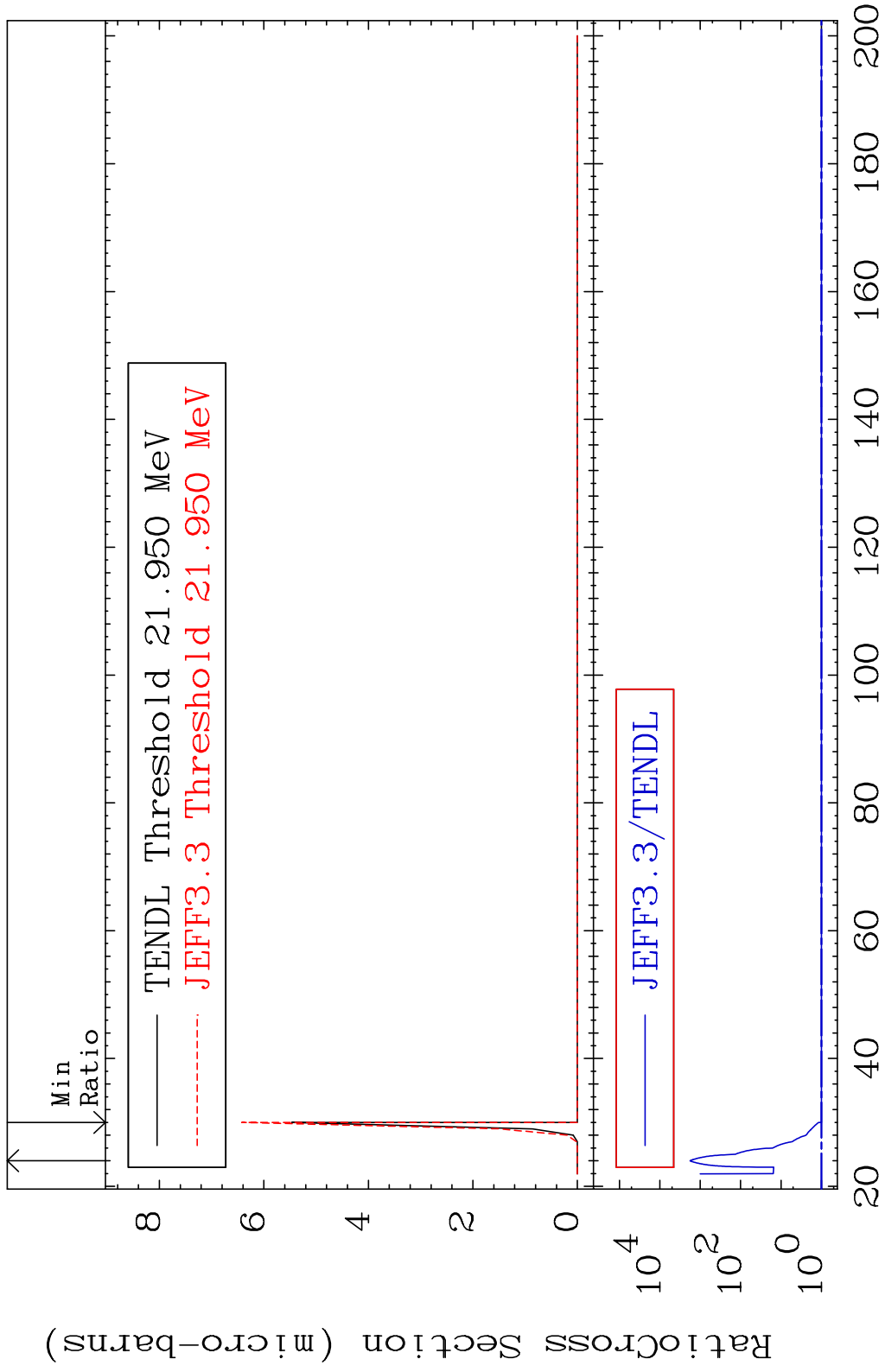


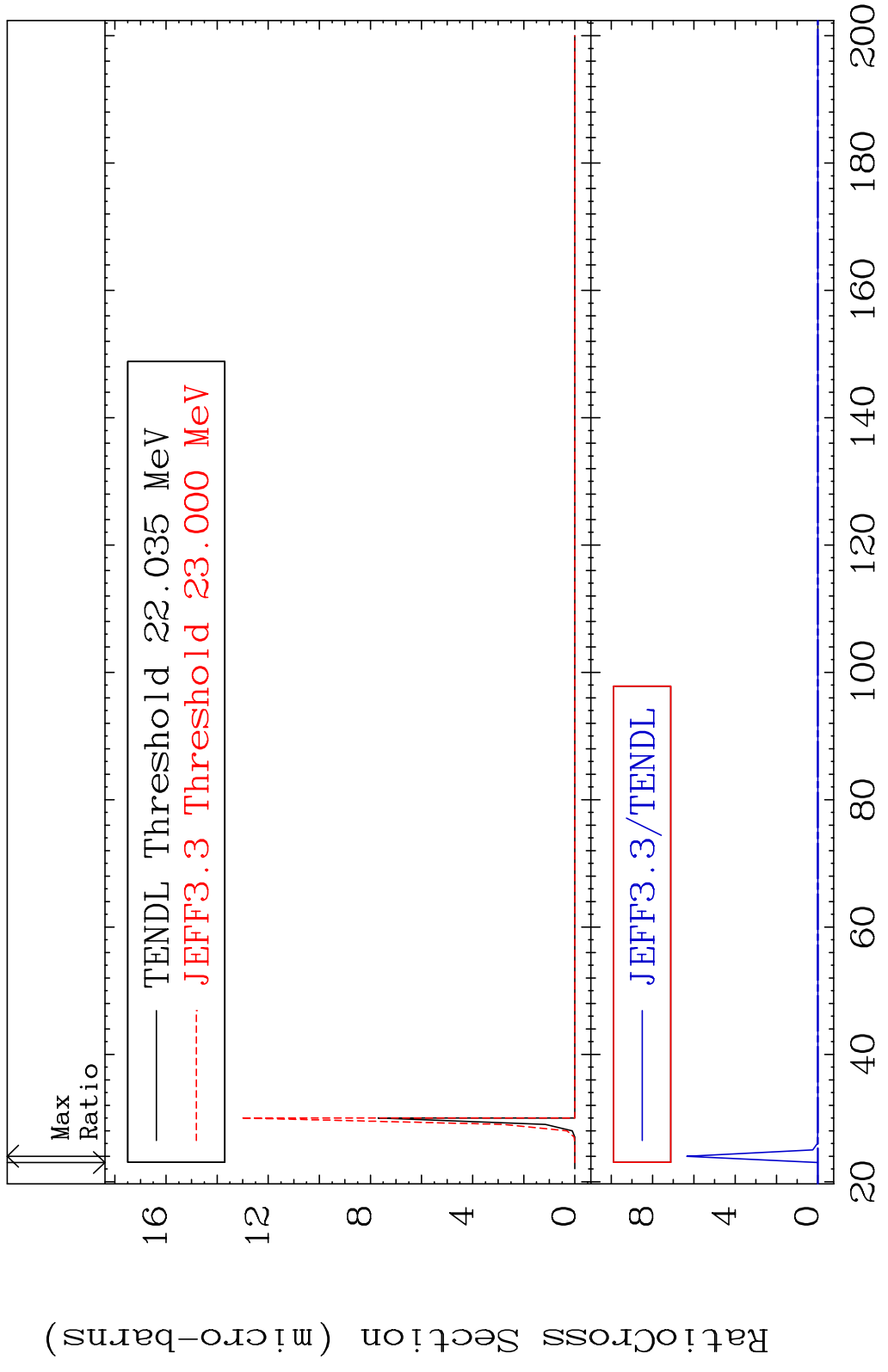




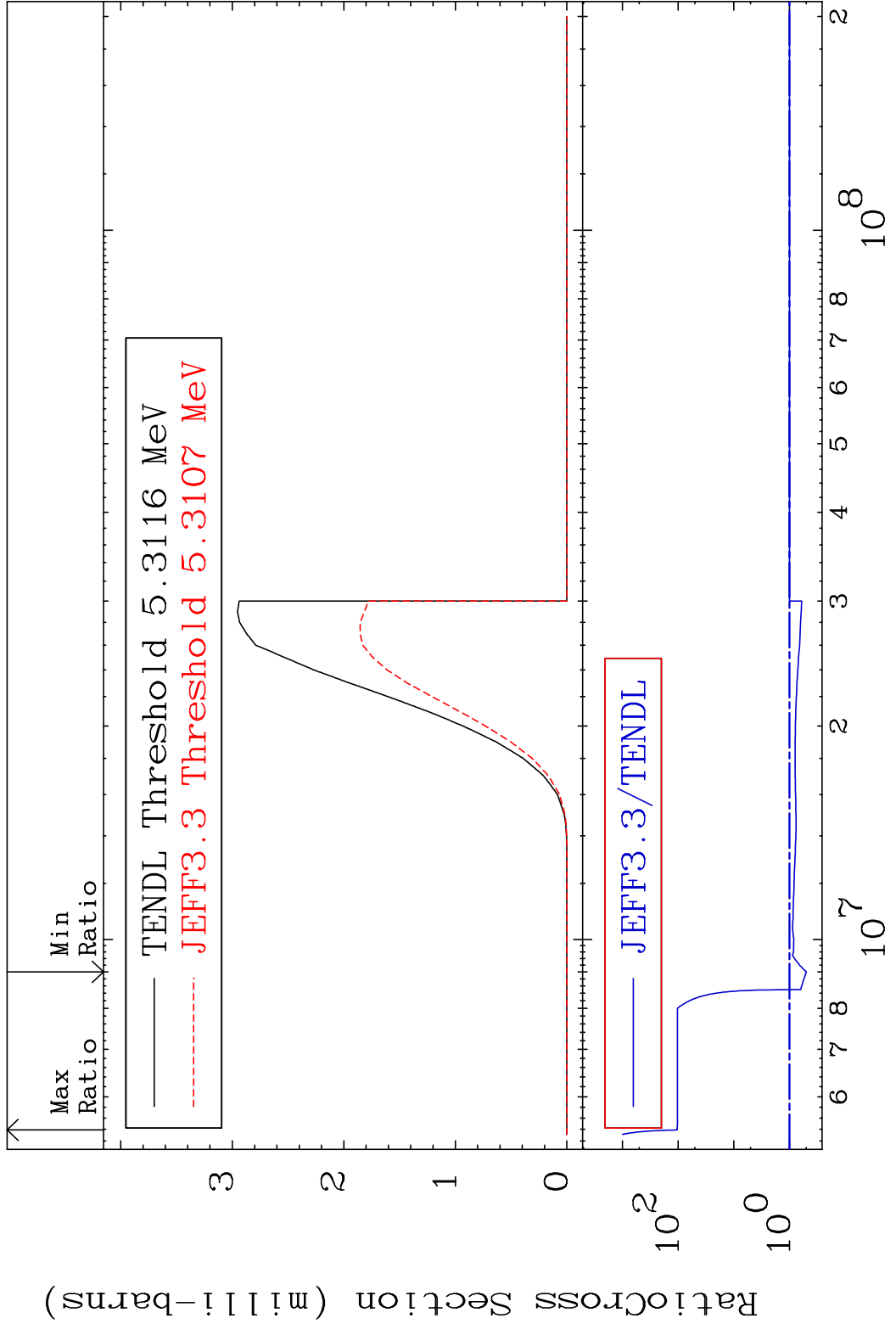








MAT 8034 (n, t): 79-Au-197g 80-Hg-199
 Radionuclide Production Cross Section (%)



94 Incident Energy (eV) 80-Hg-199

MAT 8034 (n, t): 79-Au-197m4 80-Hg-199
 Radionuclide Production Cross Section 28.81 %

