

Program Complot
(Version 2018-1)

by

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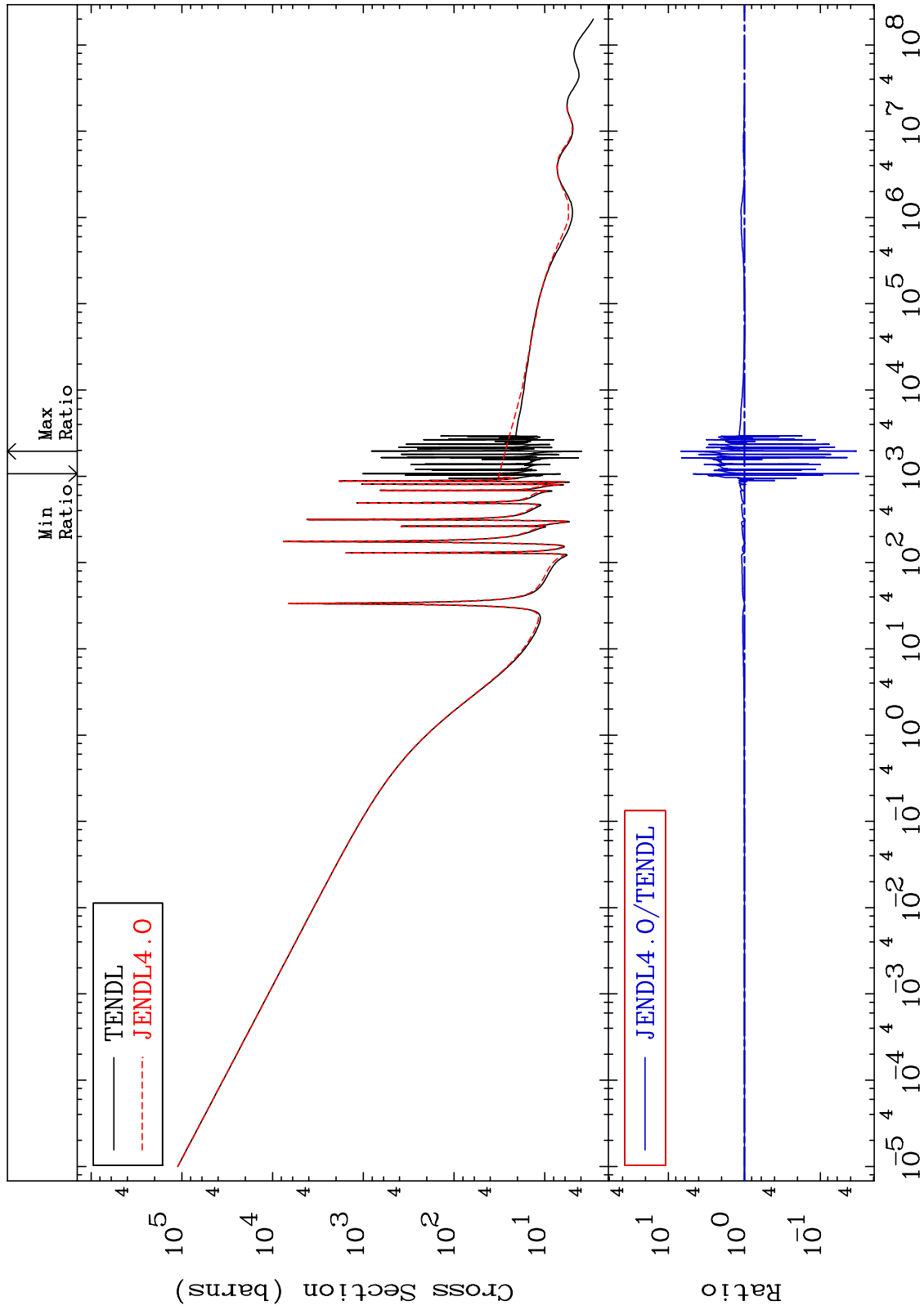
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8034

Total
Cross Section

80-Hg-199
-96.90 To 589.7 %



1

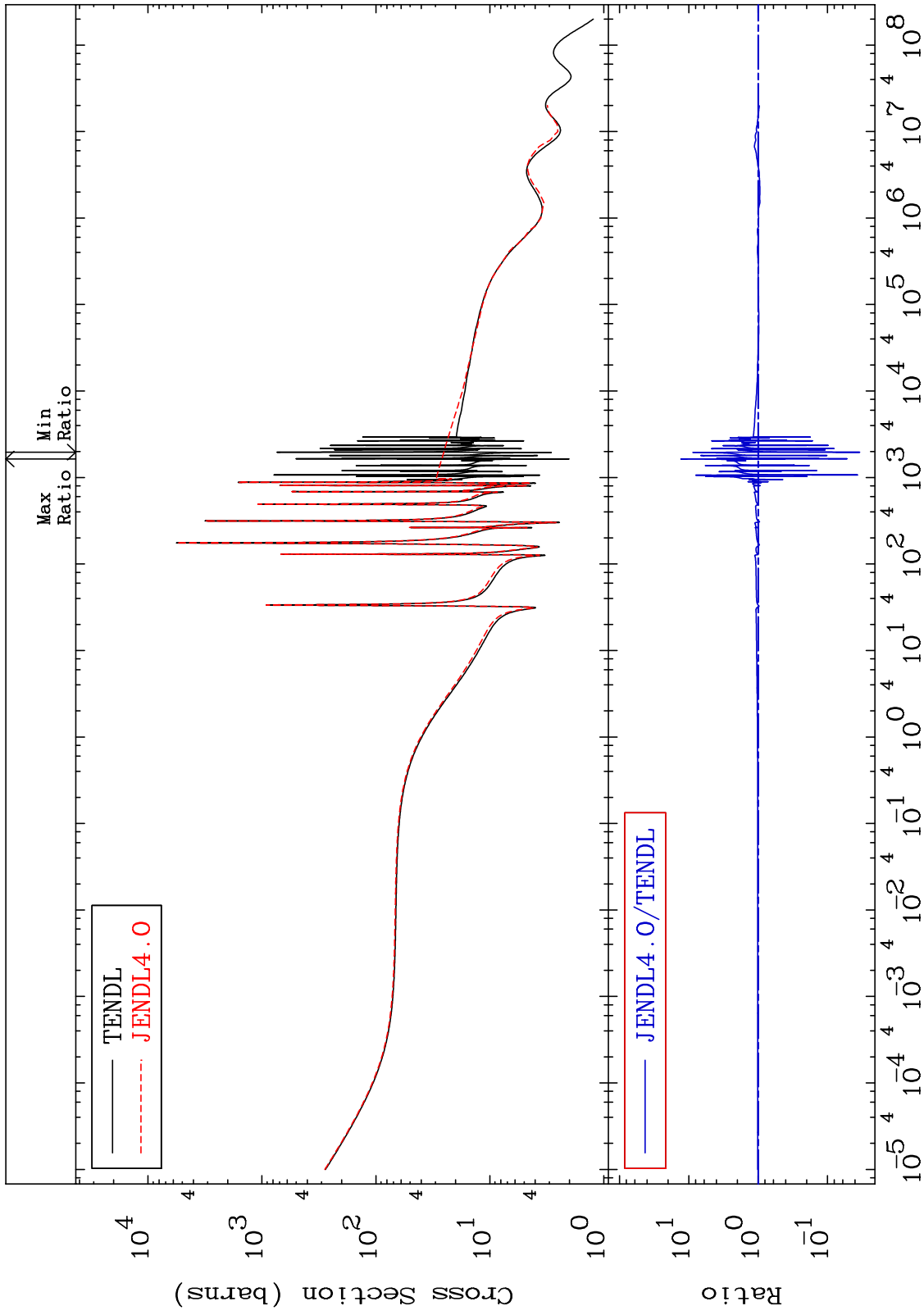
Incident Energy (eV)

80-Hg-199

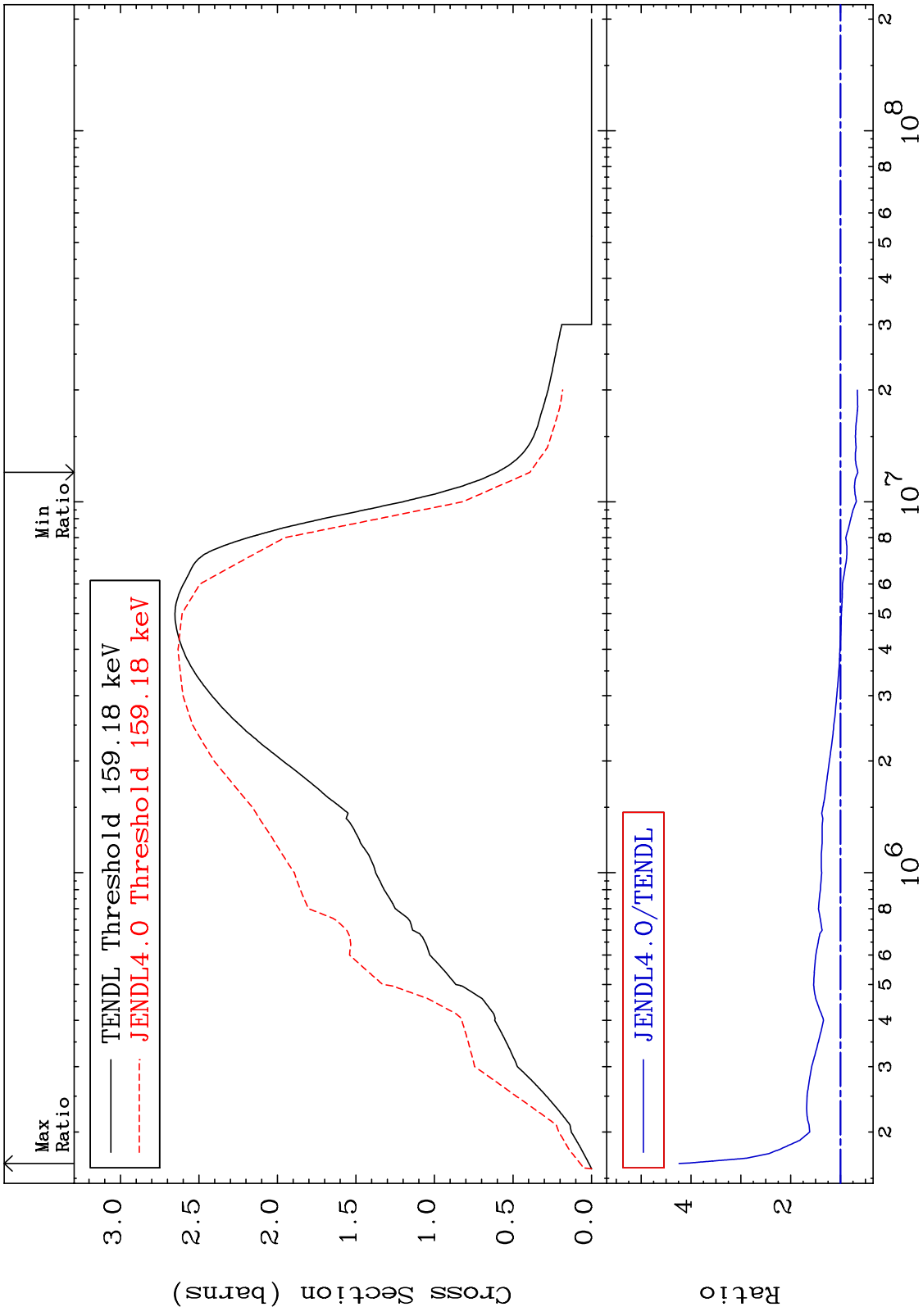
MAT 8034

Elastic
Cross Section

80-Hg-199
-96.57 To 1206. %

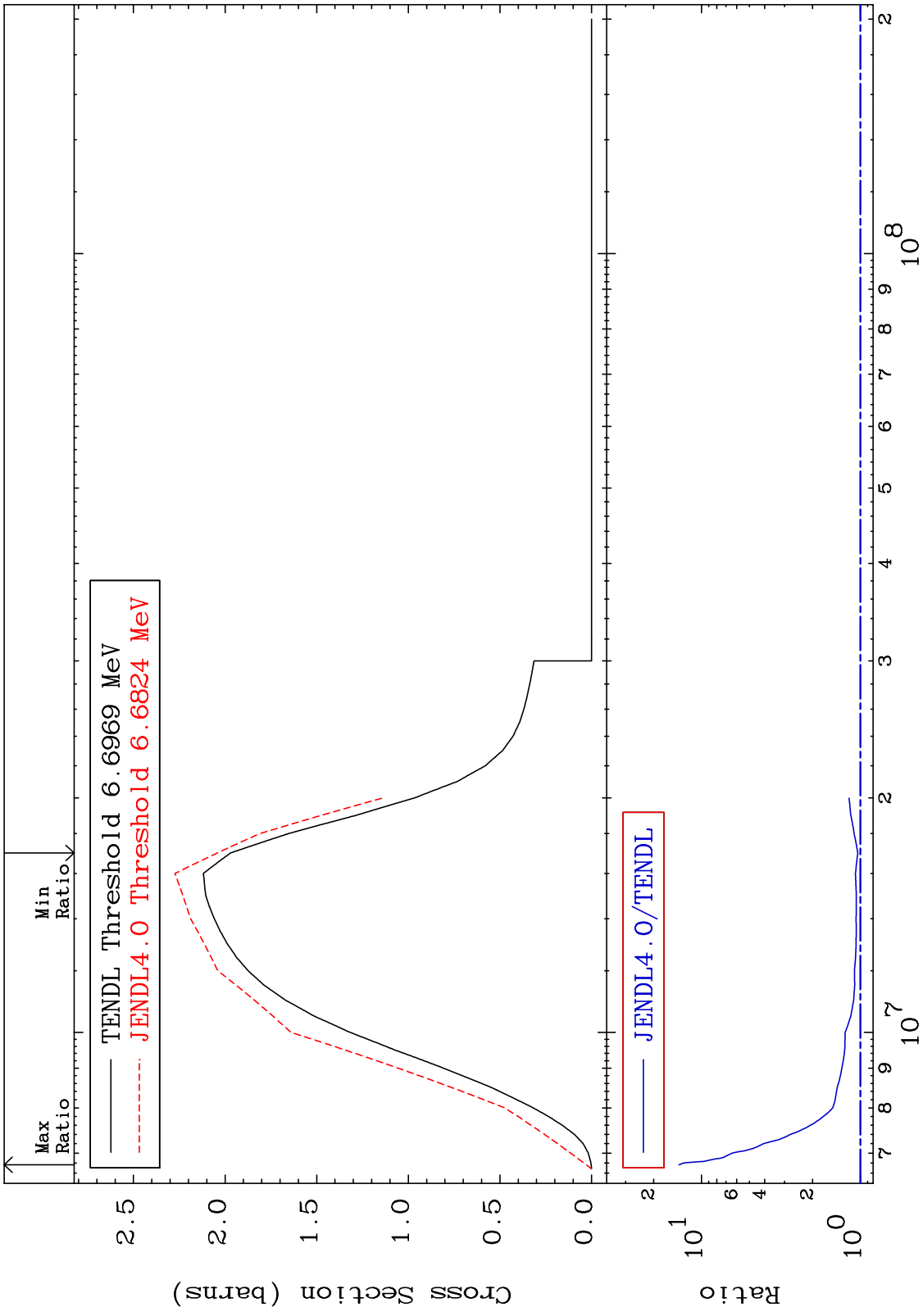


MAT 8034 Inelastic Cross Section 80-Hg-199 -34.81 To 324.1 %

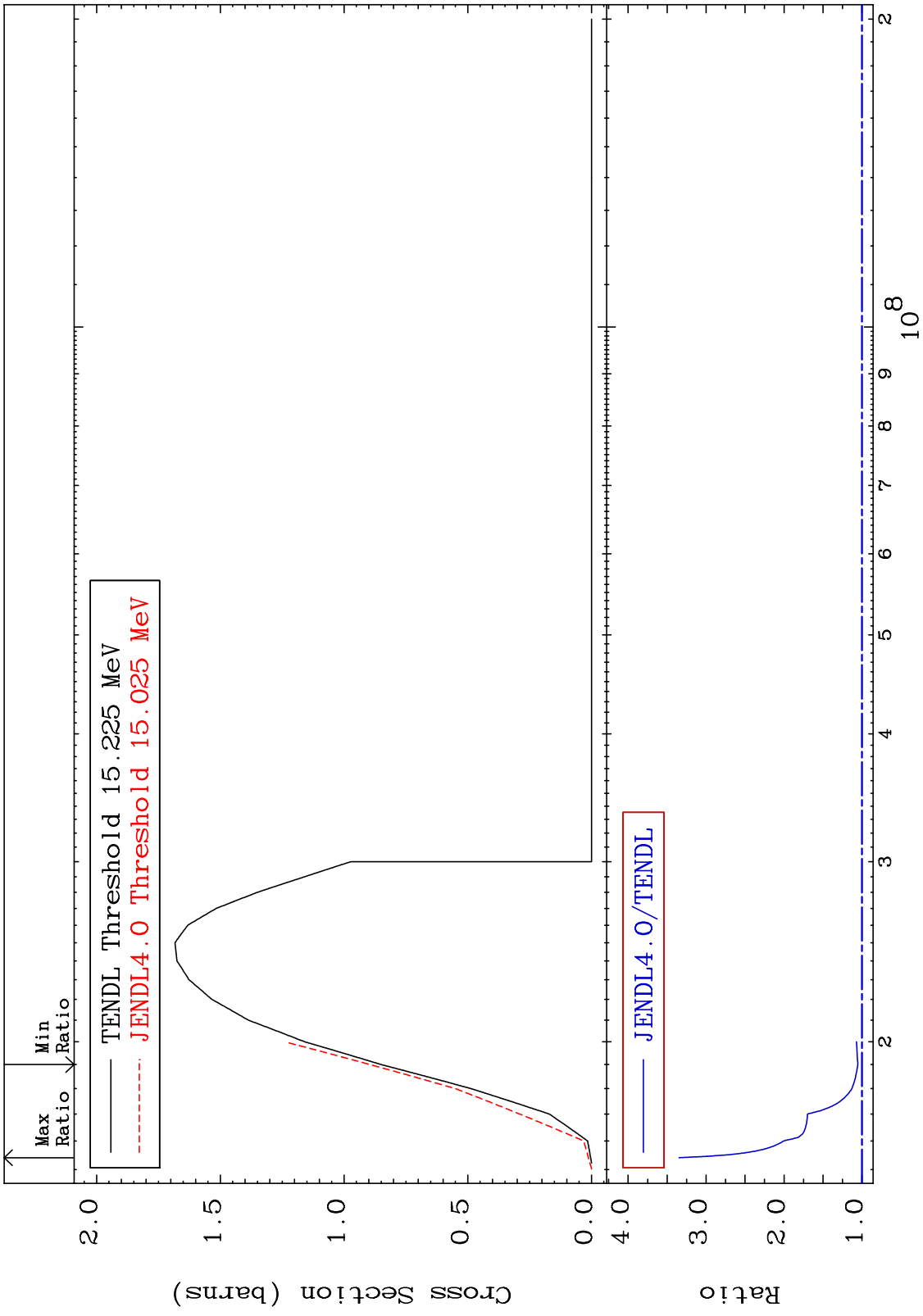


3 80-Hg-199

MAT 8034 (n,2n) Cross Section 80-Hg-199 3.647 To 1283. %



MAT 8034 (n,3n) Cross Section 80-Hg-199 To 234.7 %
 5.315



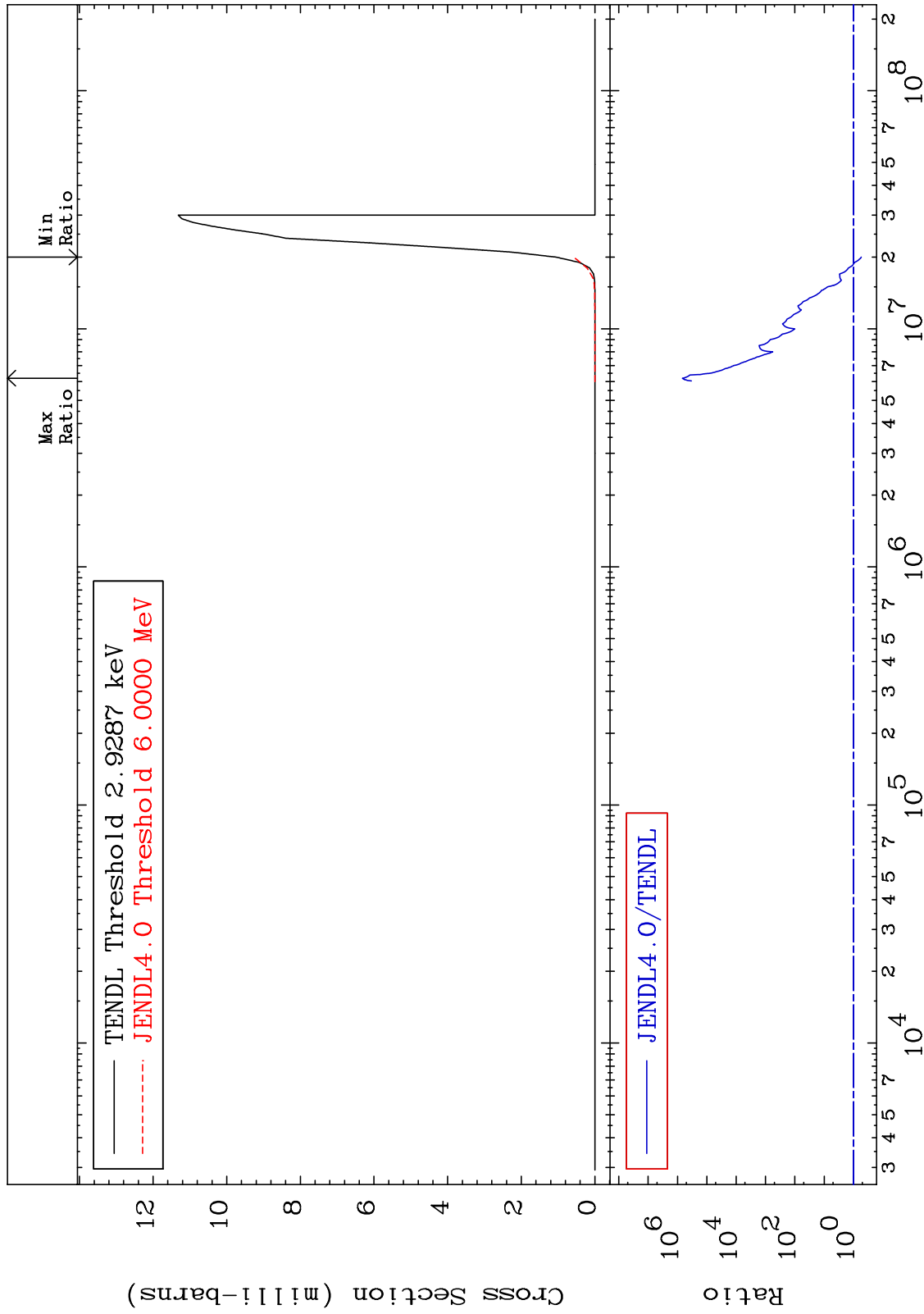
MAT 8034

(n, n') α

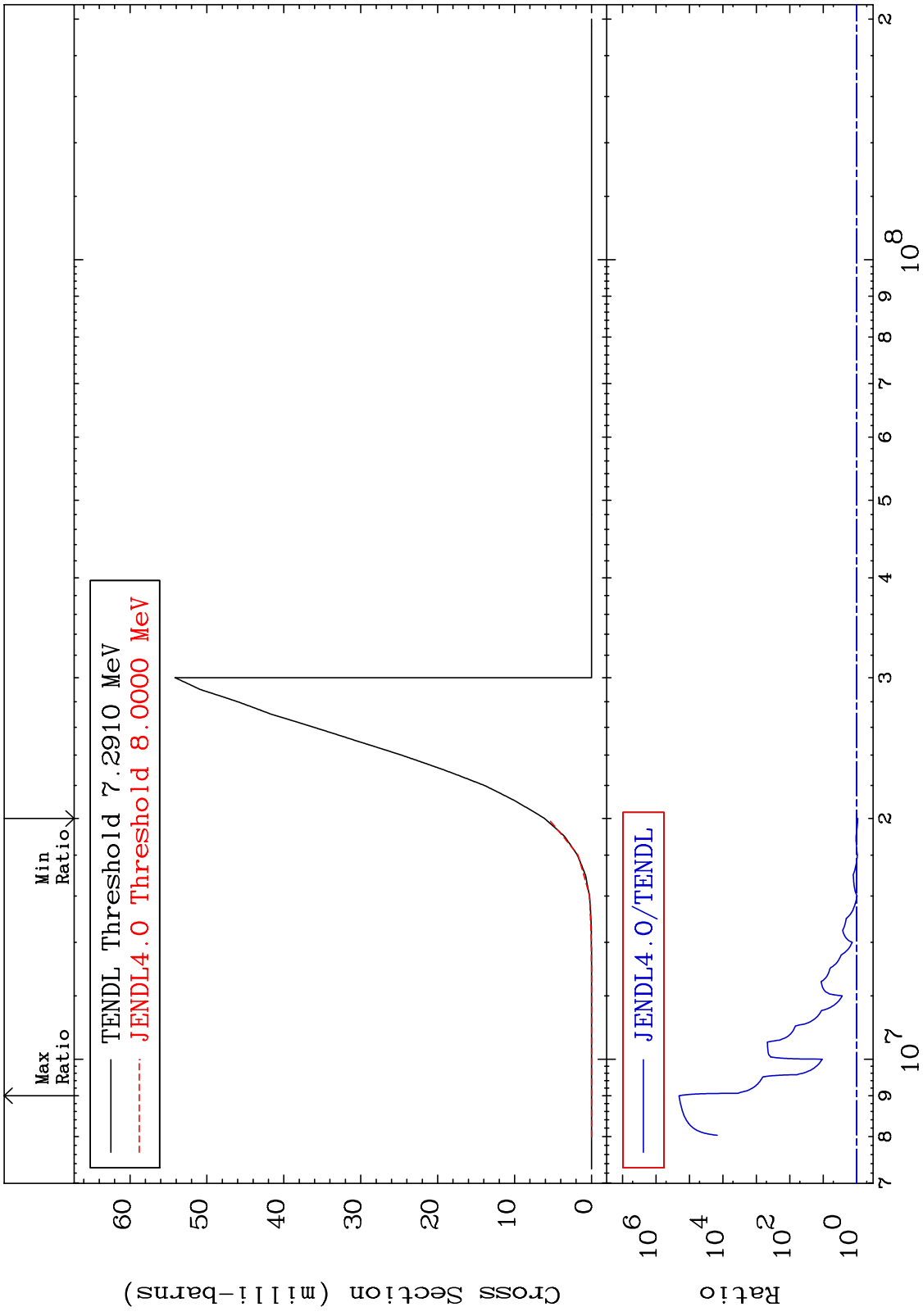
80-Hg-199

Cross Section

-45.56 To 9999. %

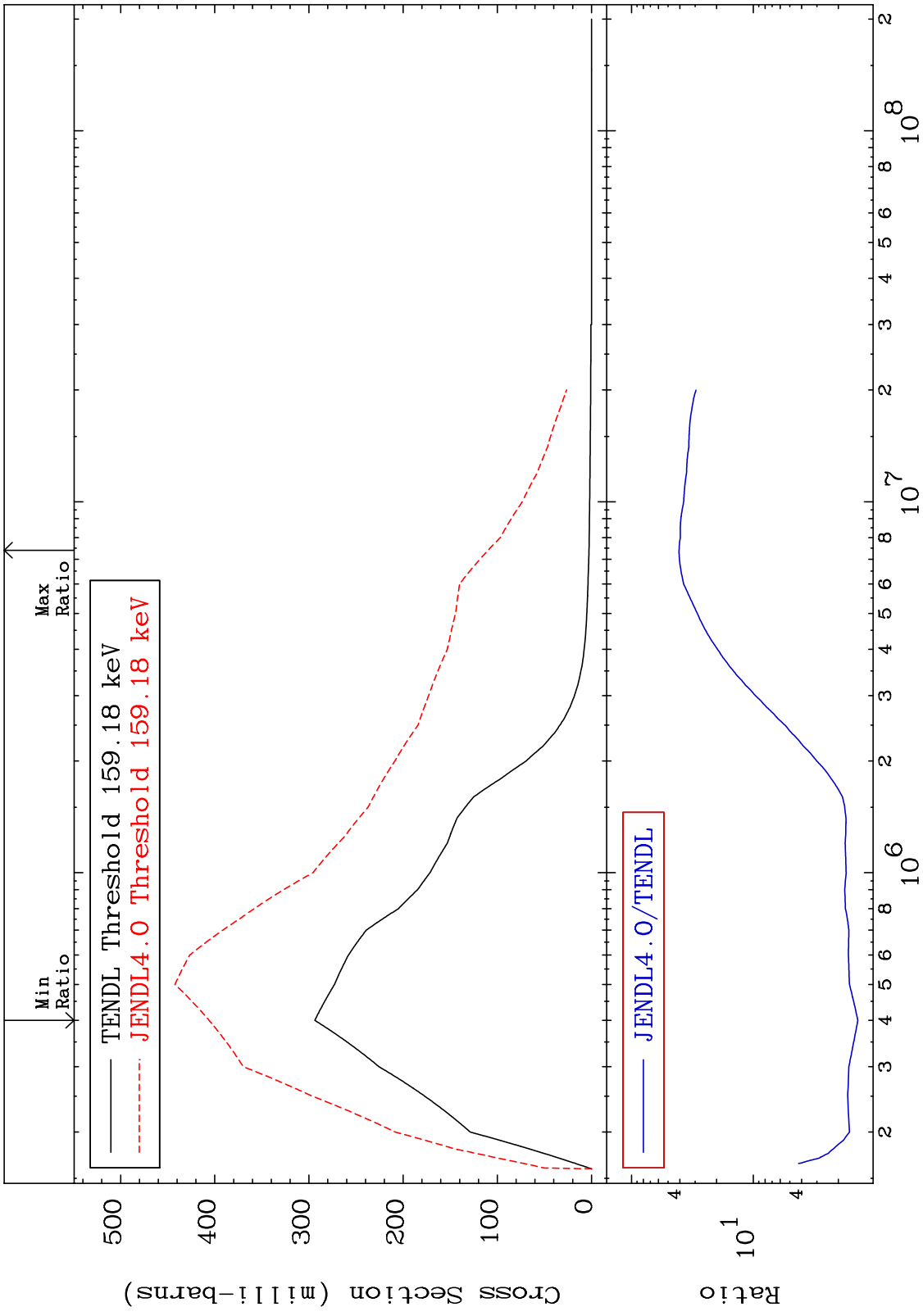


MAT 8034 (n,n') p 80-Hg-199
 Cross Section -7.378 To 9999. %



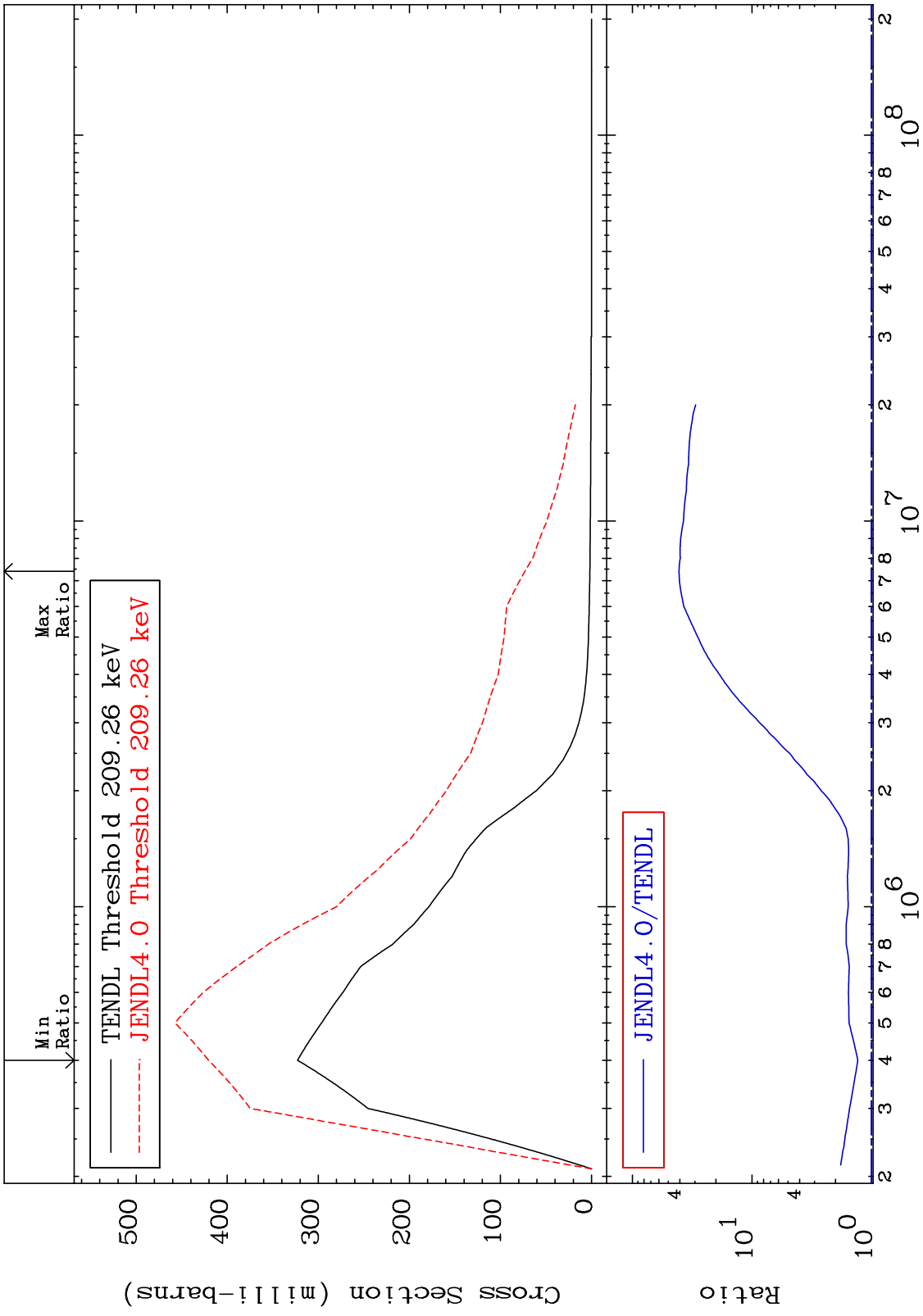
7 80-Hg-199

MAT 8034 MT= 51 (n,n') Level Cross Section 38.20 To 3969. % 80-Hg-199

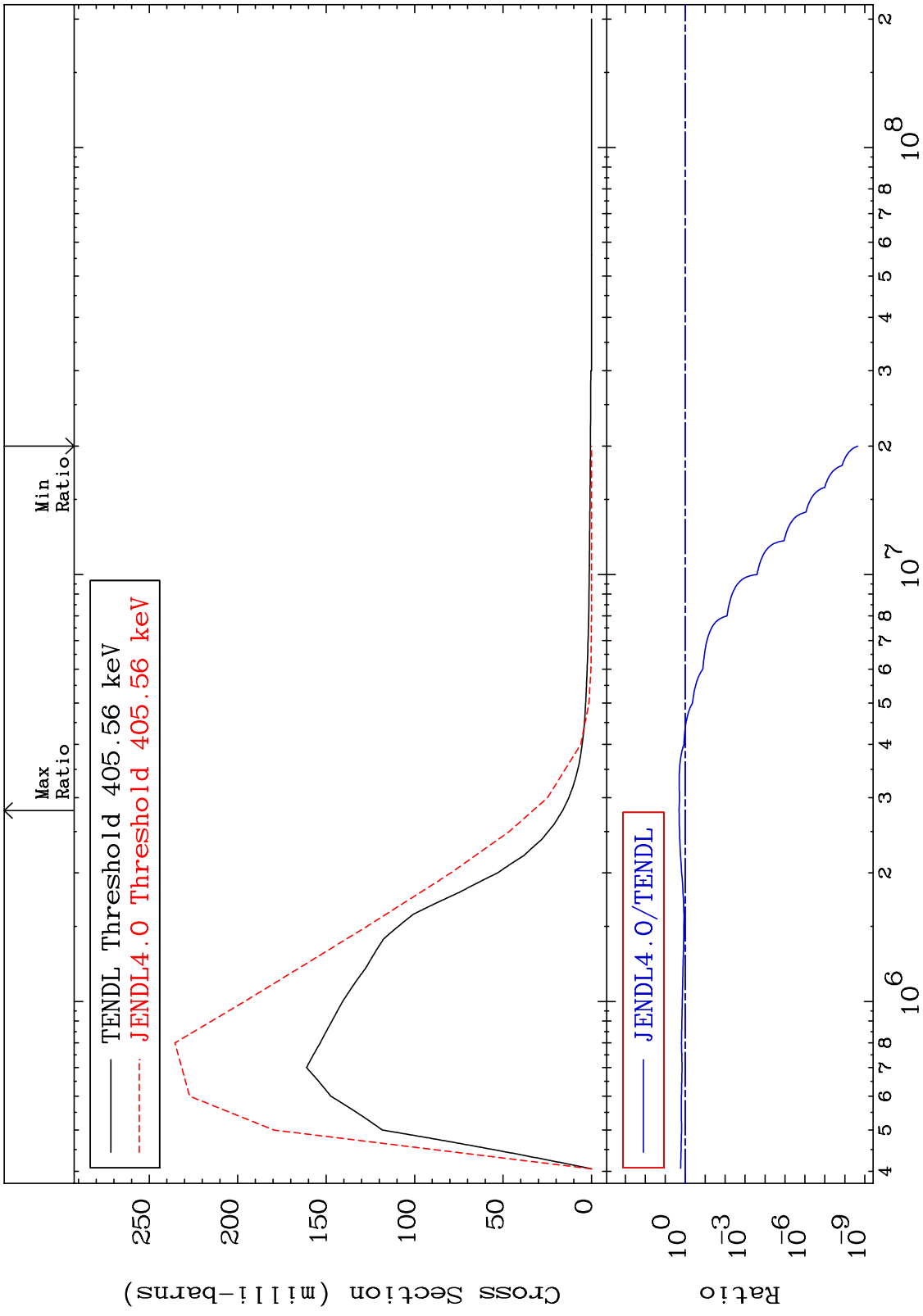


8 Incident Energy (eV) 80-Hg-199

MAT 8034 MT= 52 (n,n') Level Cross Section 80-Hg-199
 30.26 To 3968. %

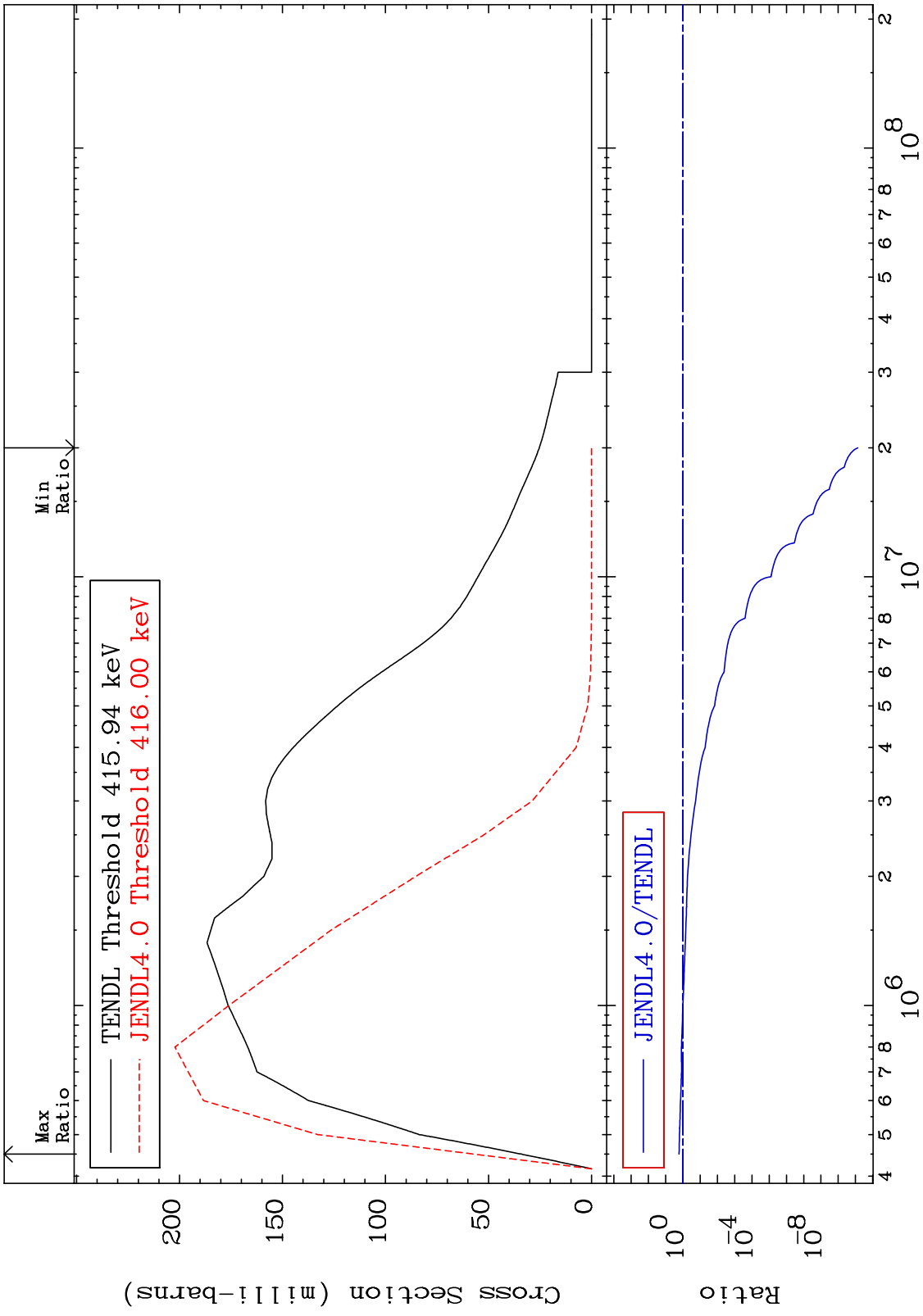


MAT 8034 MT= 53 (n,n') Level Cross Section -100.0 To 103.2 % 80-Hg-199

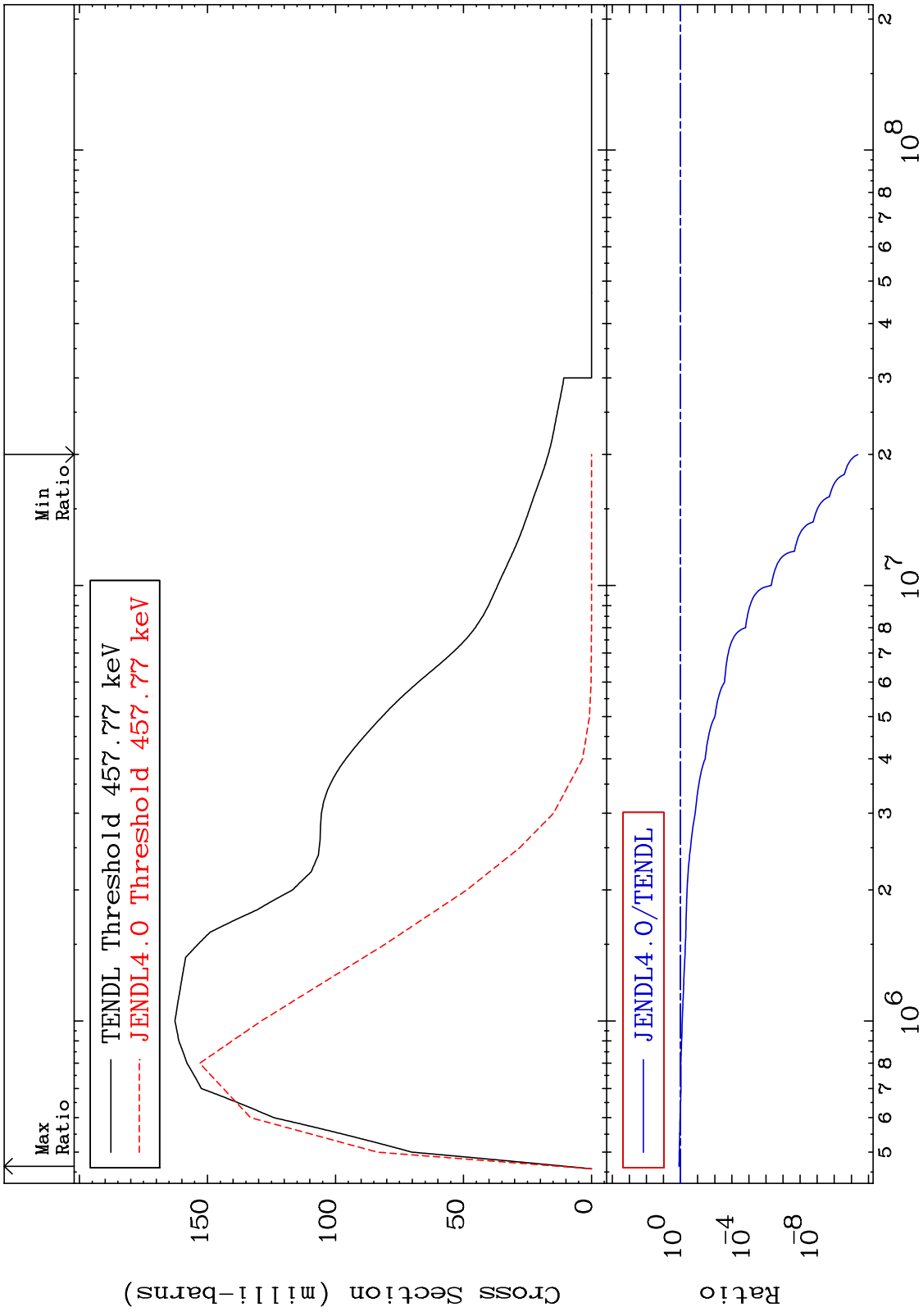


10 Incident Energy (eV) 80-Hg-199

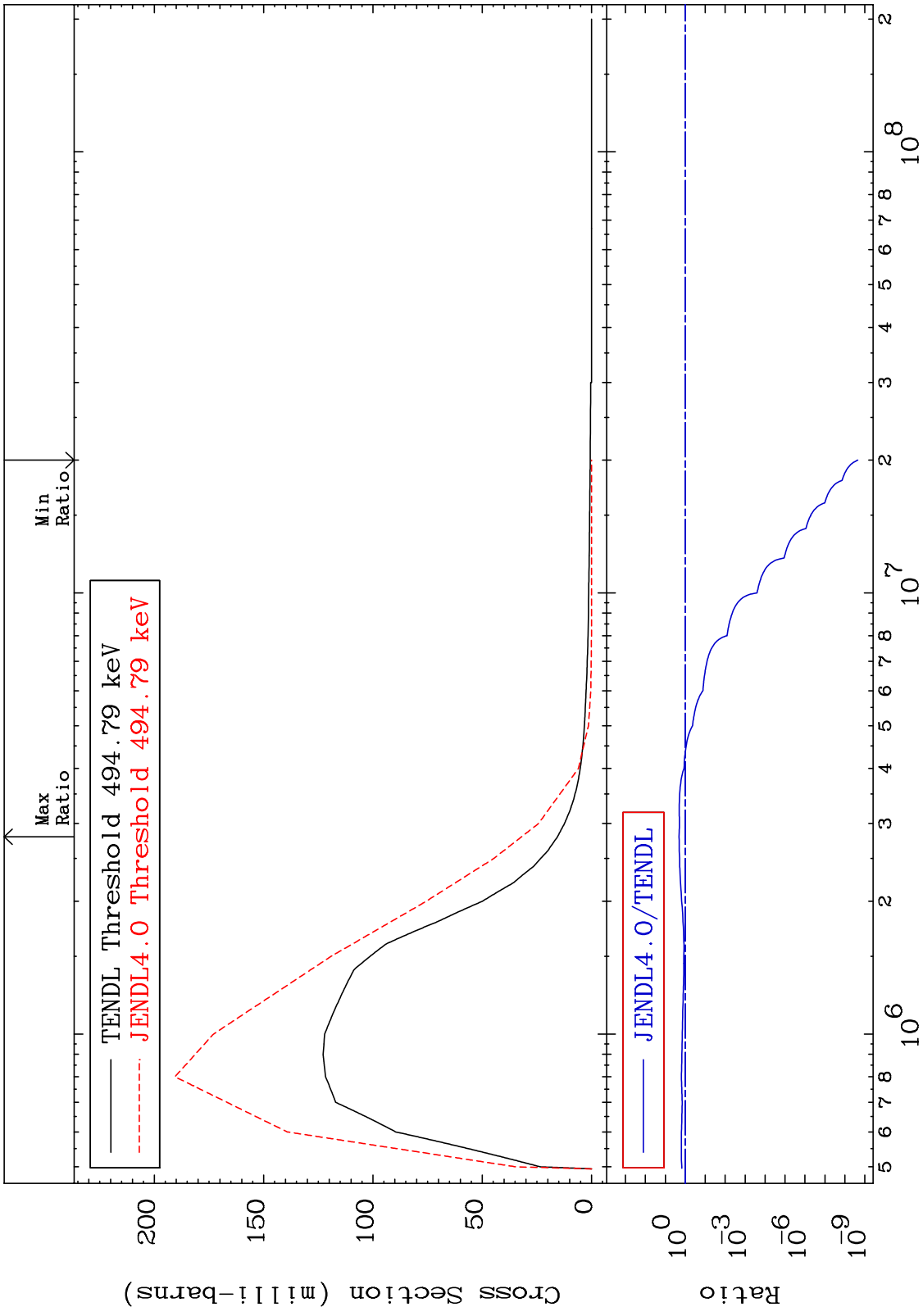
MAT 8034 MT= 54 (n,n') Level Cross Section -100.0 To 67.49 % 80-Hg-199



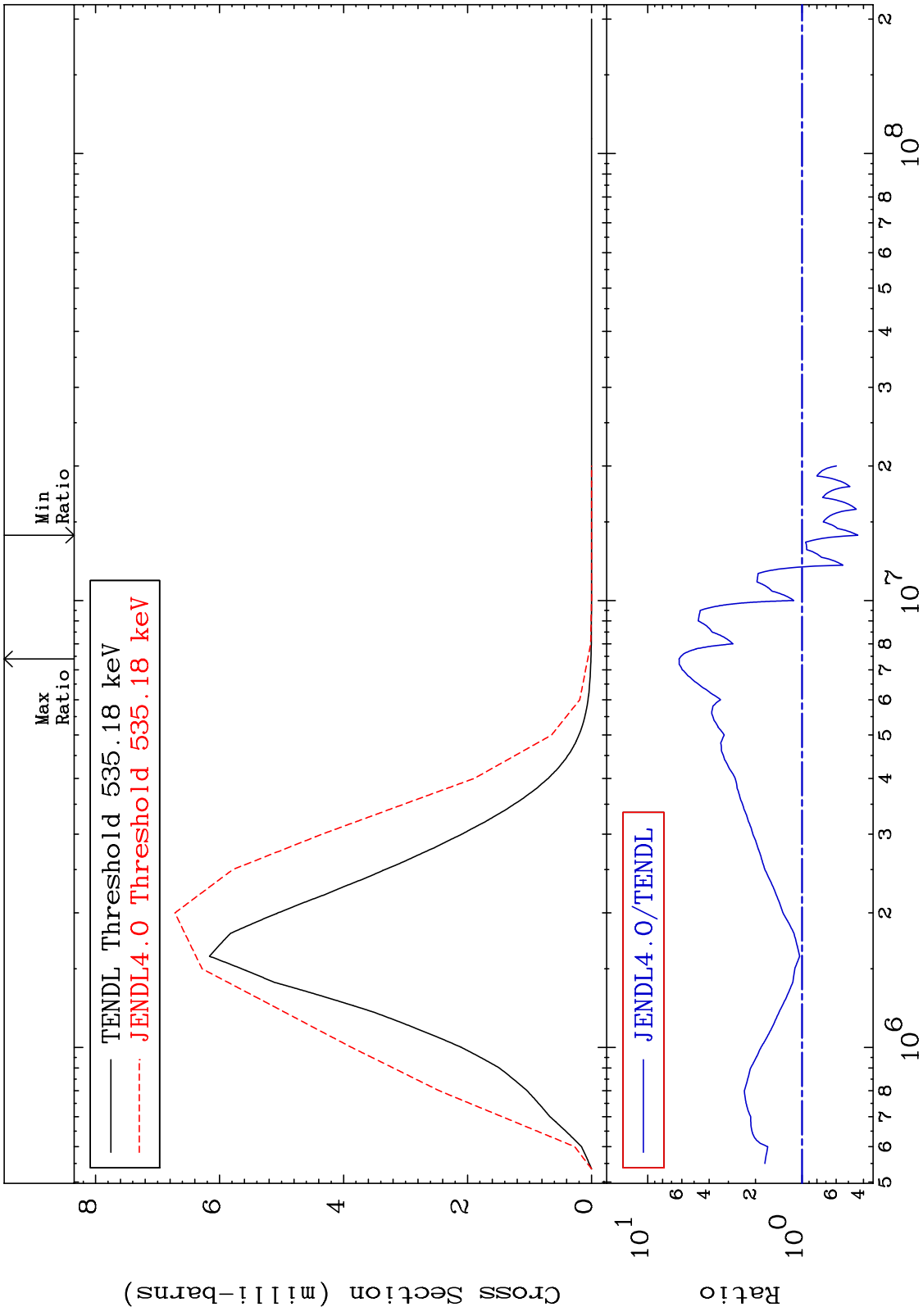
MAT 8034 MT= 55 (n,n') Level Cross Section -100.0 To 23.08 % 80-Hg-199



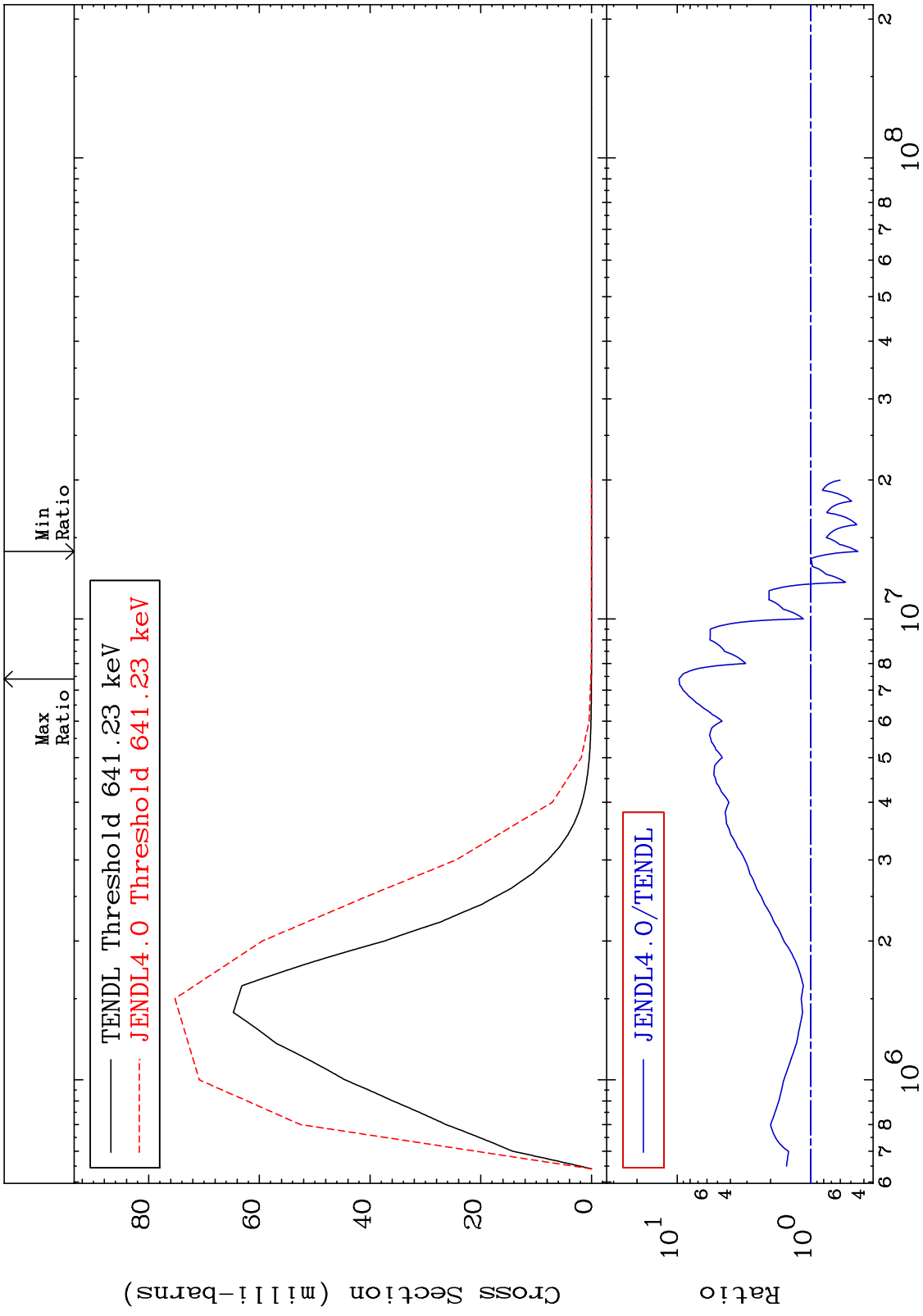
MAT 8034 MT= 56 (n,n') Level Cross Section -100.0 To 105.5 % 80-Hg-199



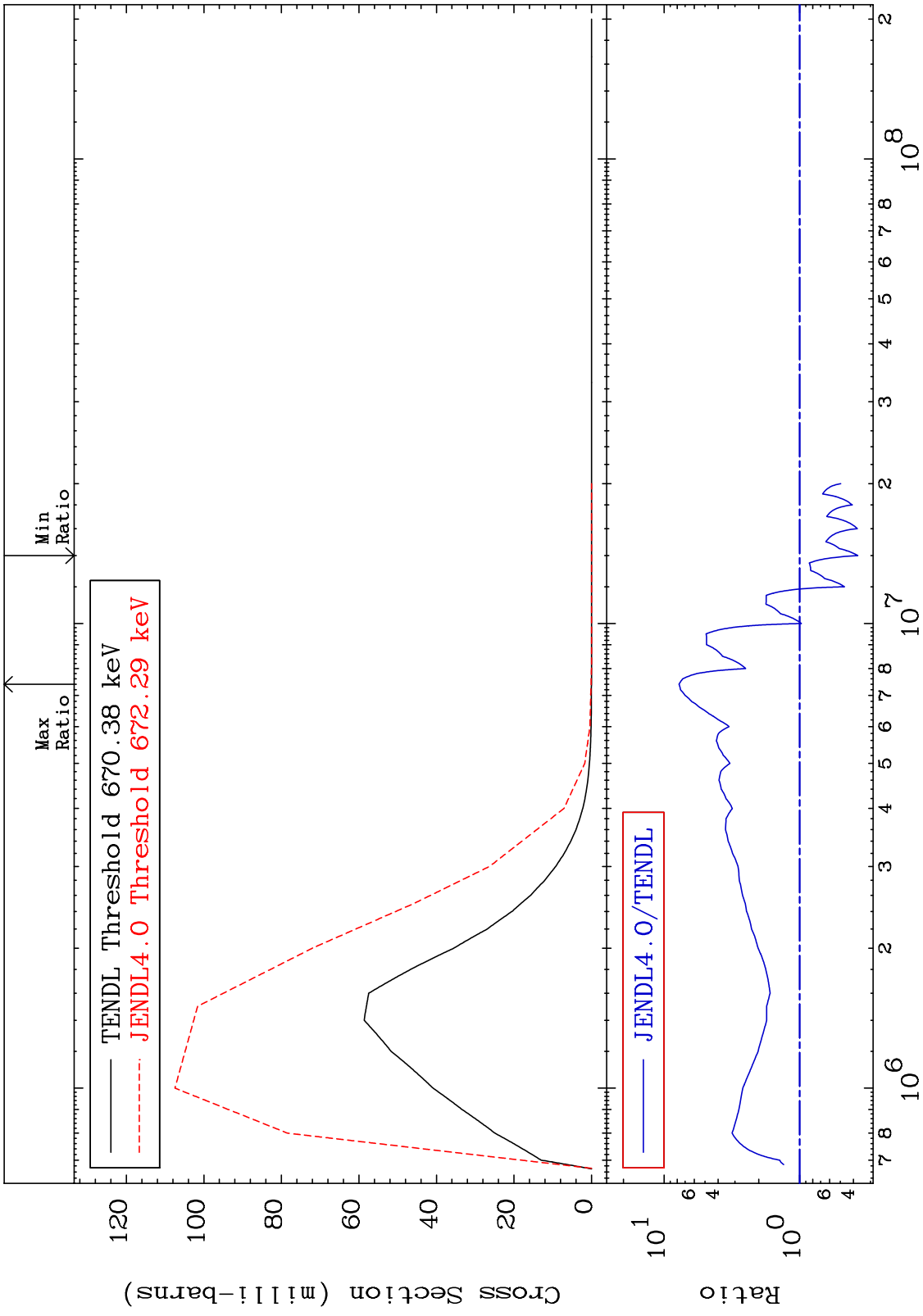
MAT 8034 MT= 57 (n,n') Level Cross Section -56.53 To 525.7 % 80-Hg-199



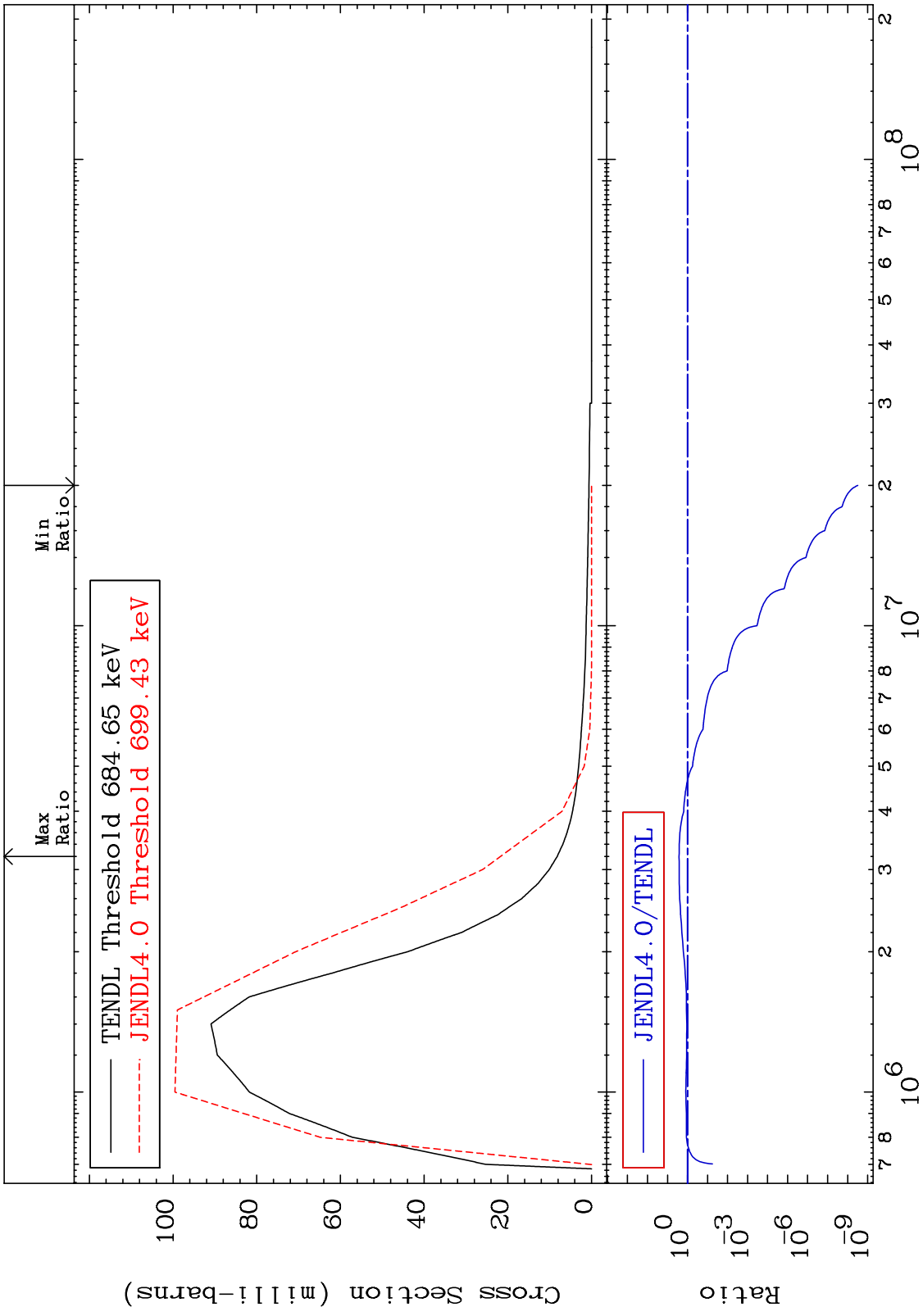
MAT 8034 MT= 58 (n,n') Level Cross Section 80-Hg-199
 -55.64 To 869.3 %



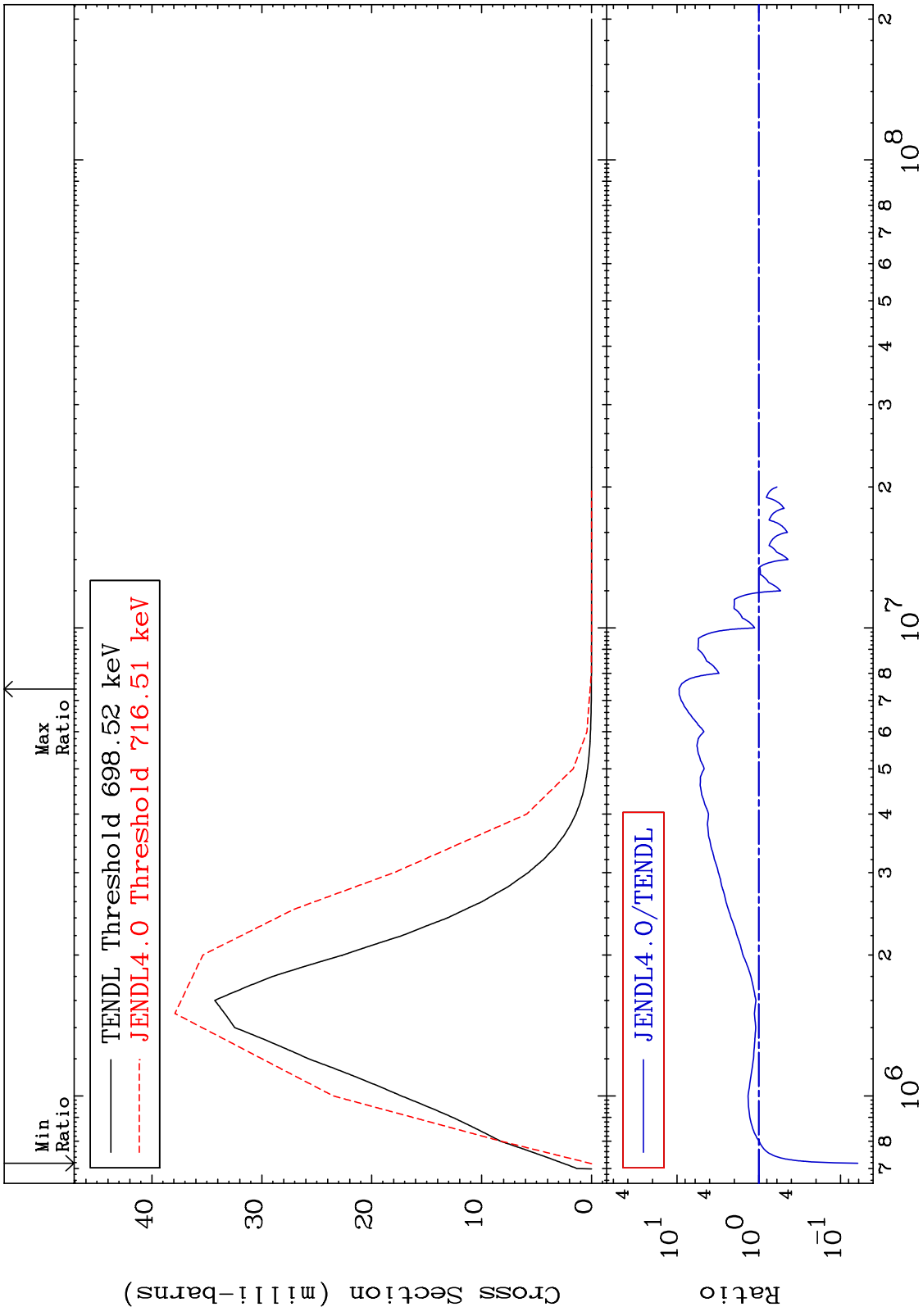
MAT 8034 MT= 59 (n,n') Level Cross Section -62.84 To 676.1 % 80-Hg-199



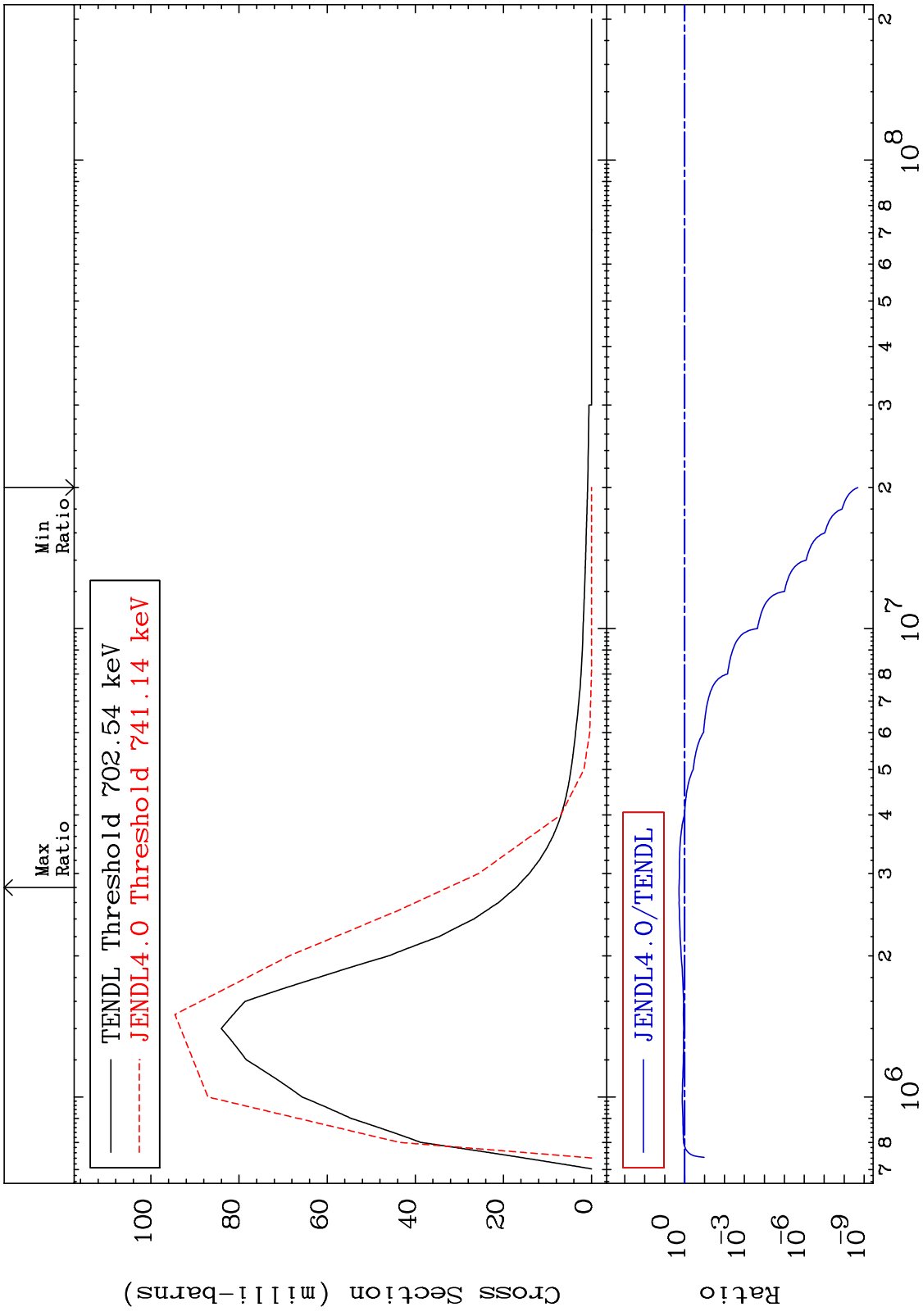
MAT 8034 MT= 60 (n,n') Level Cross Section 80-Hg-199
 -100.0 To 165.3 %



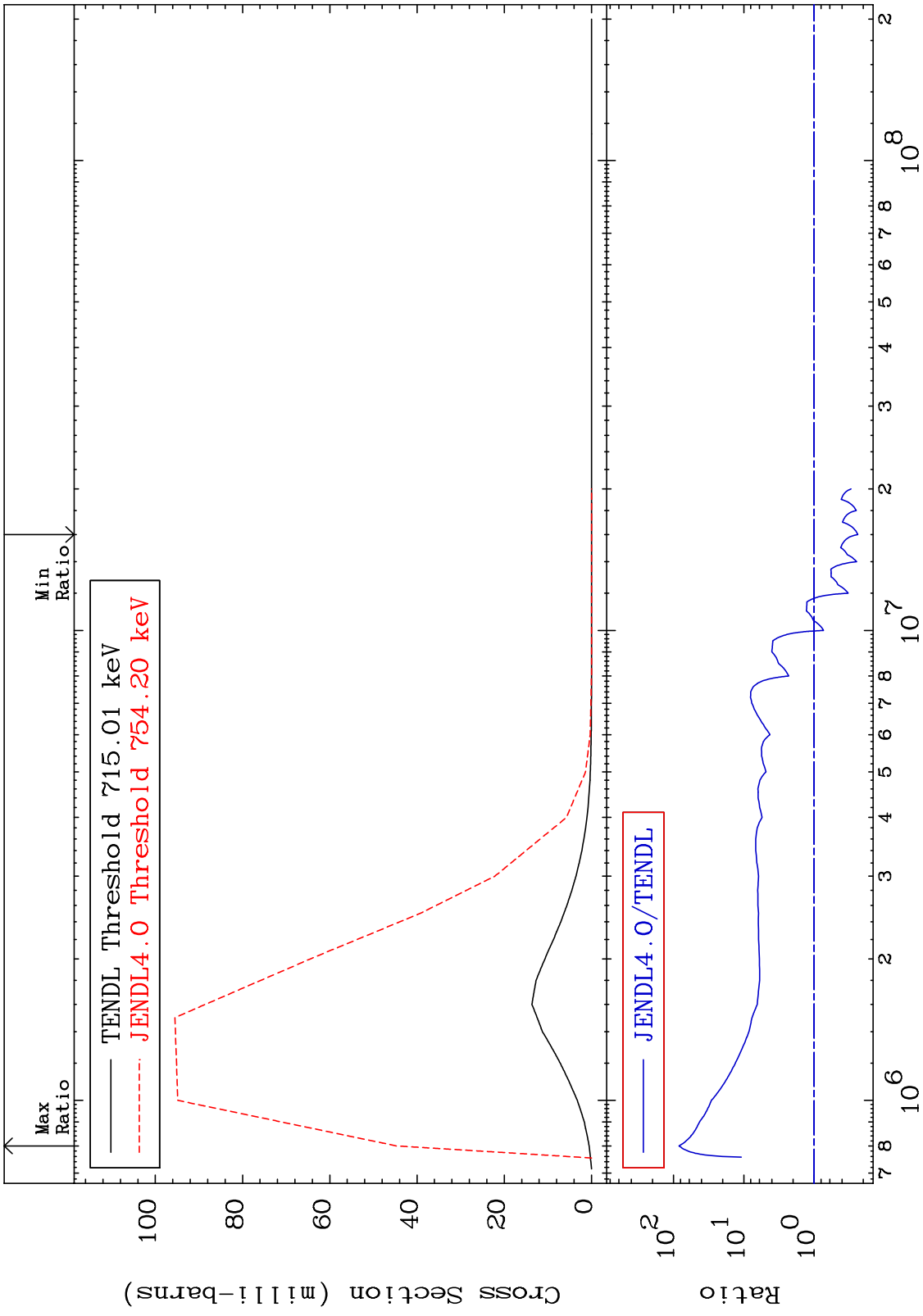
MAT 8034 MT= 61 (n,n') Level Cross Section -93.84 To 846.0 % 80-Hg-199



MAT 8034 MT= 62 (n,n') Level Cross Section 80-Hg-199
 -100.0 To 90.40 %



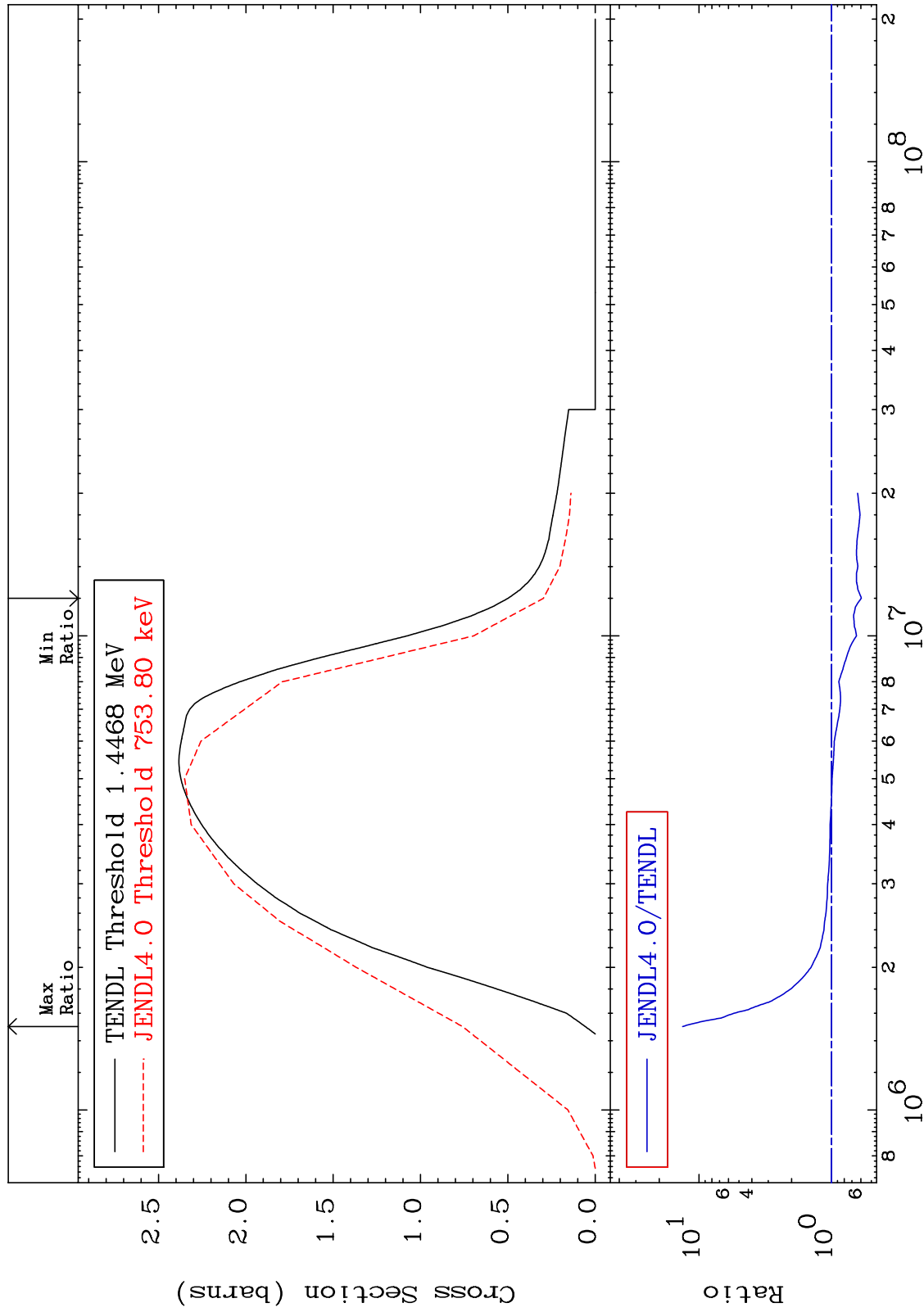
MAT 8034 MT= 63 (n,n') Level Cross Section 80-Hg-199
 -76.08 To 8268. %



MAT 8034

(n, n') Continuum
Cross Section

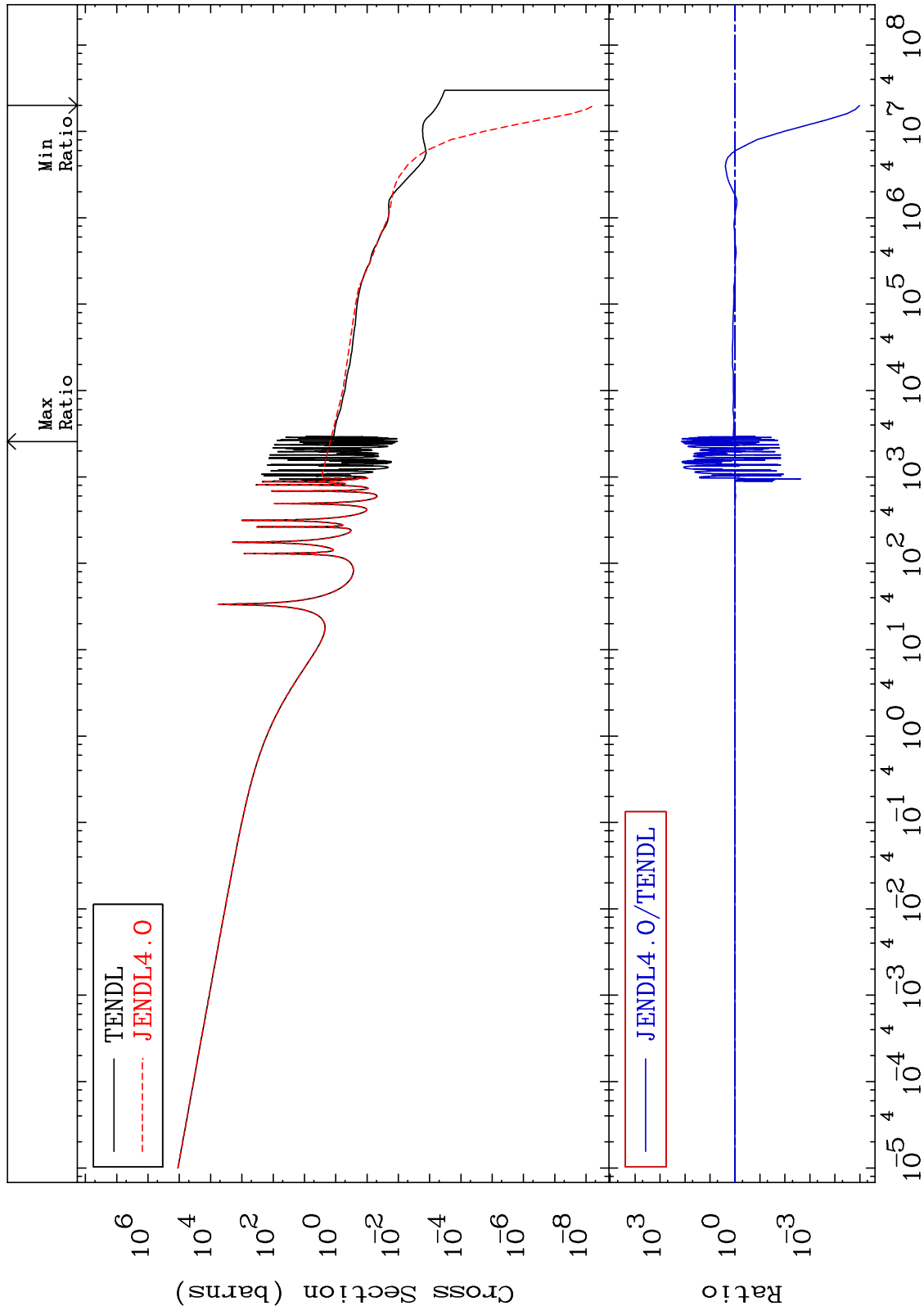
80-Hg-199
-40.49 To 1229. %



MAT 8034

(n, γ) Cross Section

80-Hg-199
-100.0 To 9999. %



MAT 8034

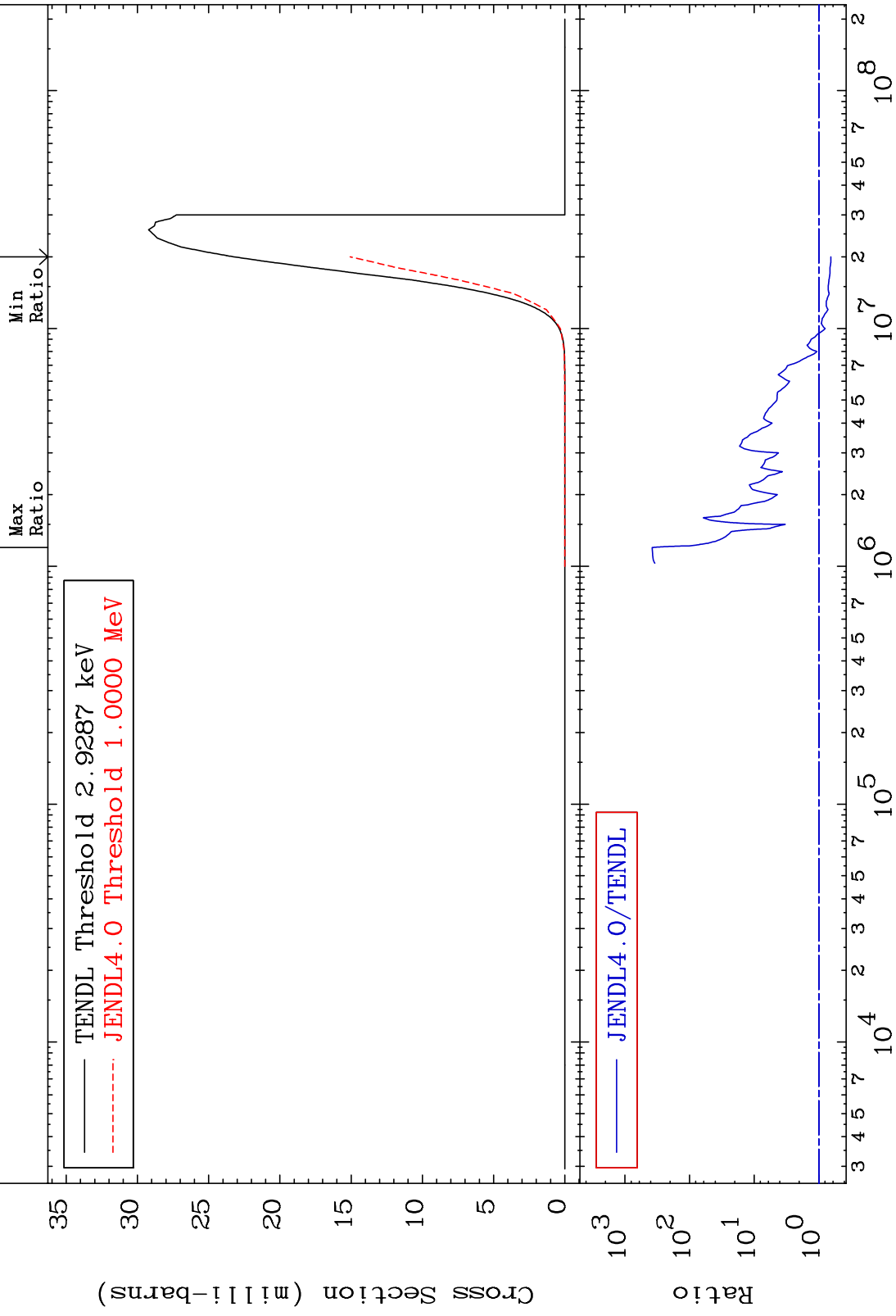
(n,p)

80-Hg-199

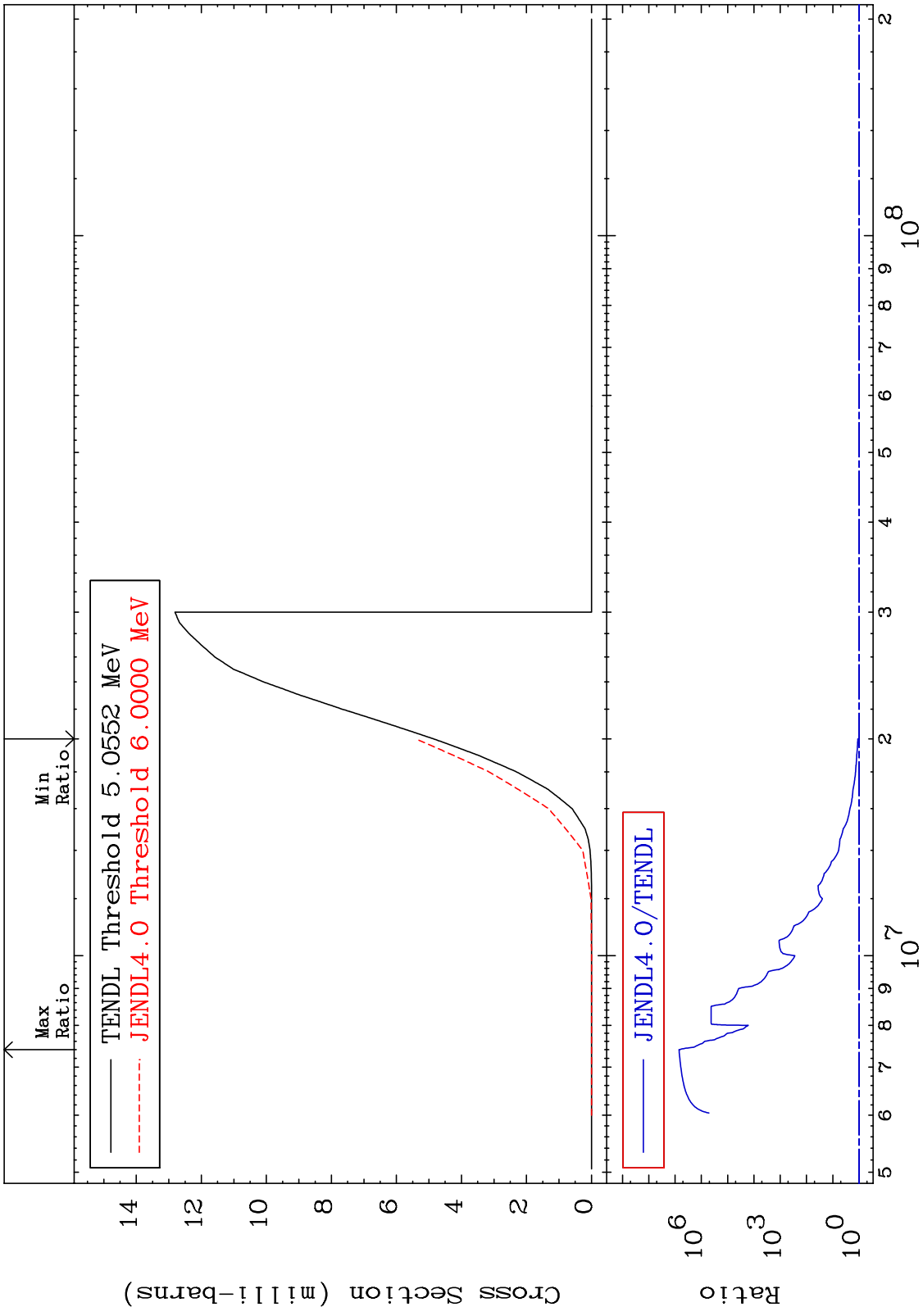
Cross Section

Cross Section

-35.17 To 9999. %



MAT 8034 (n,d) Cross Section 80-Hg-199 To 9999. %
 11.26



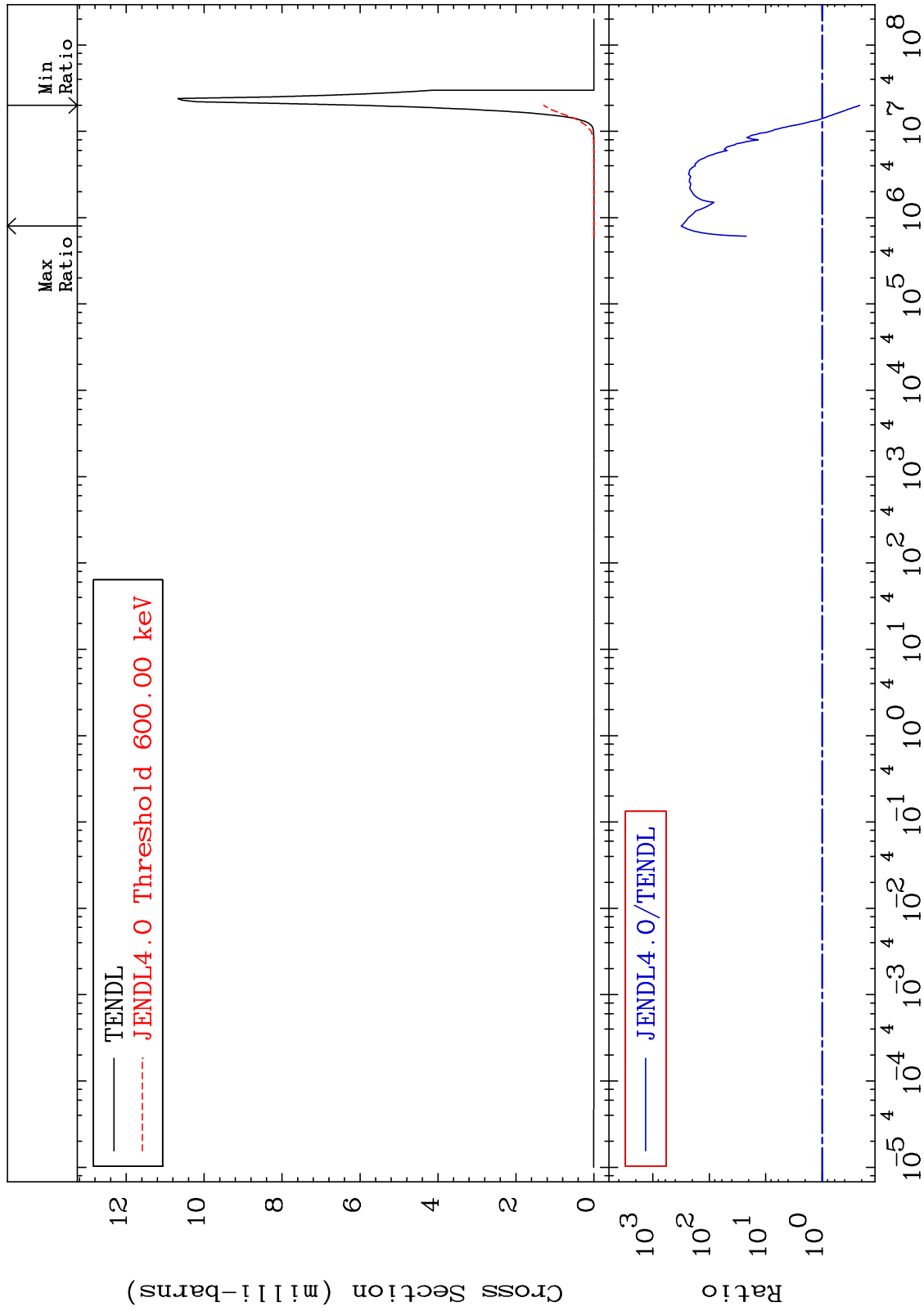
MAT 8034

(n, α)

80-Hg-199

Cross Section

-78.41 To 9999. %



25

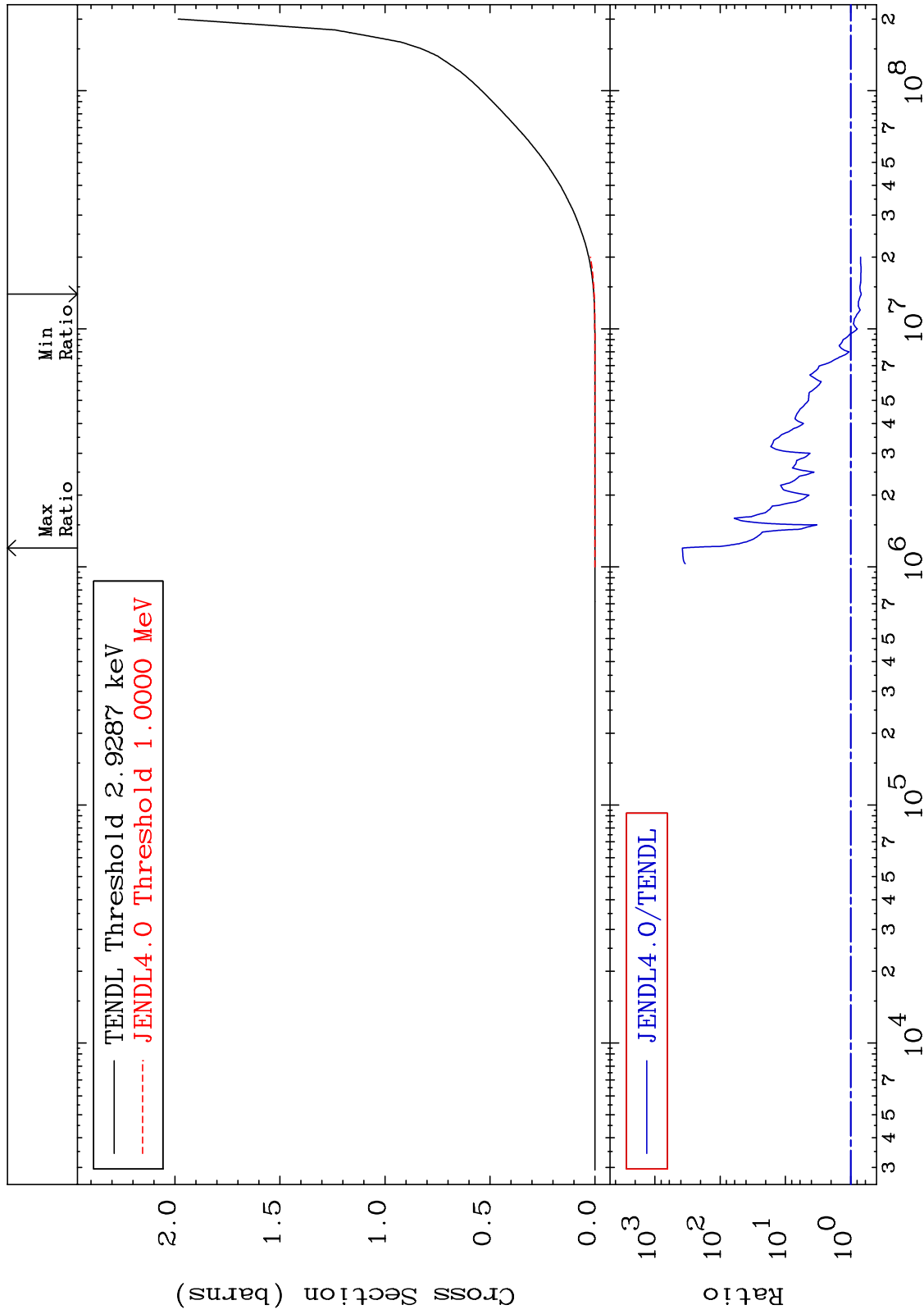
Incident Energy (eV)

80-Hg-199

MAT 8034

Hydrogen Production
Cross Section

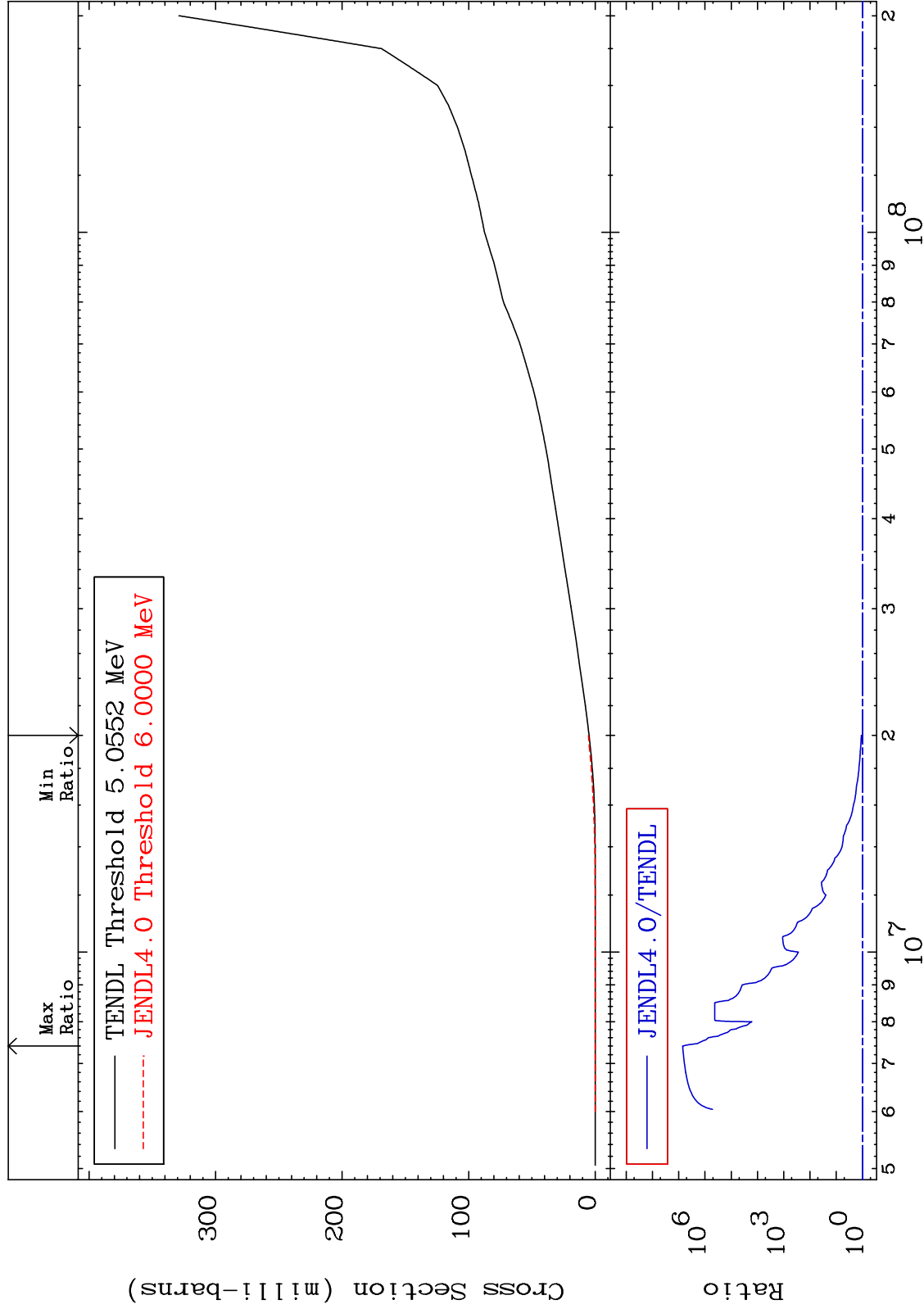
80-Hg-199
-30.85 To 9999. %



MAT 8034

Deuterium Production
Cross Section

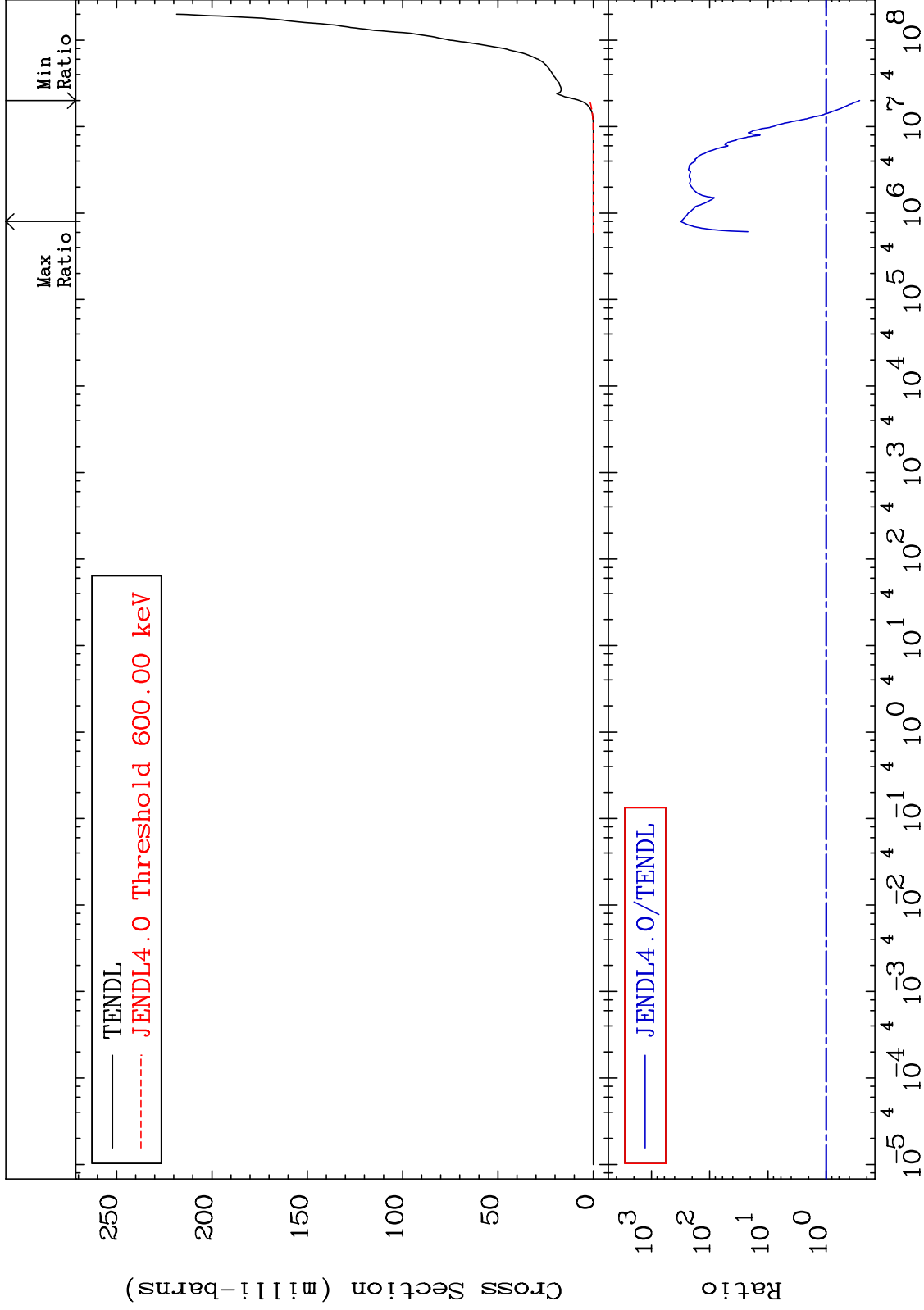
80-Hg-199
11.11 To 9999. %



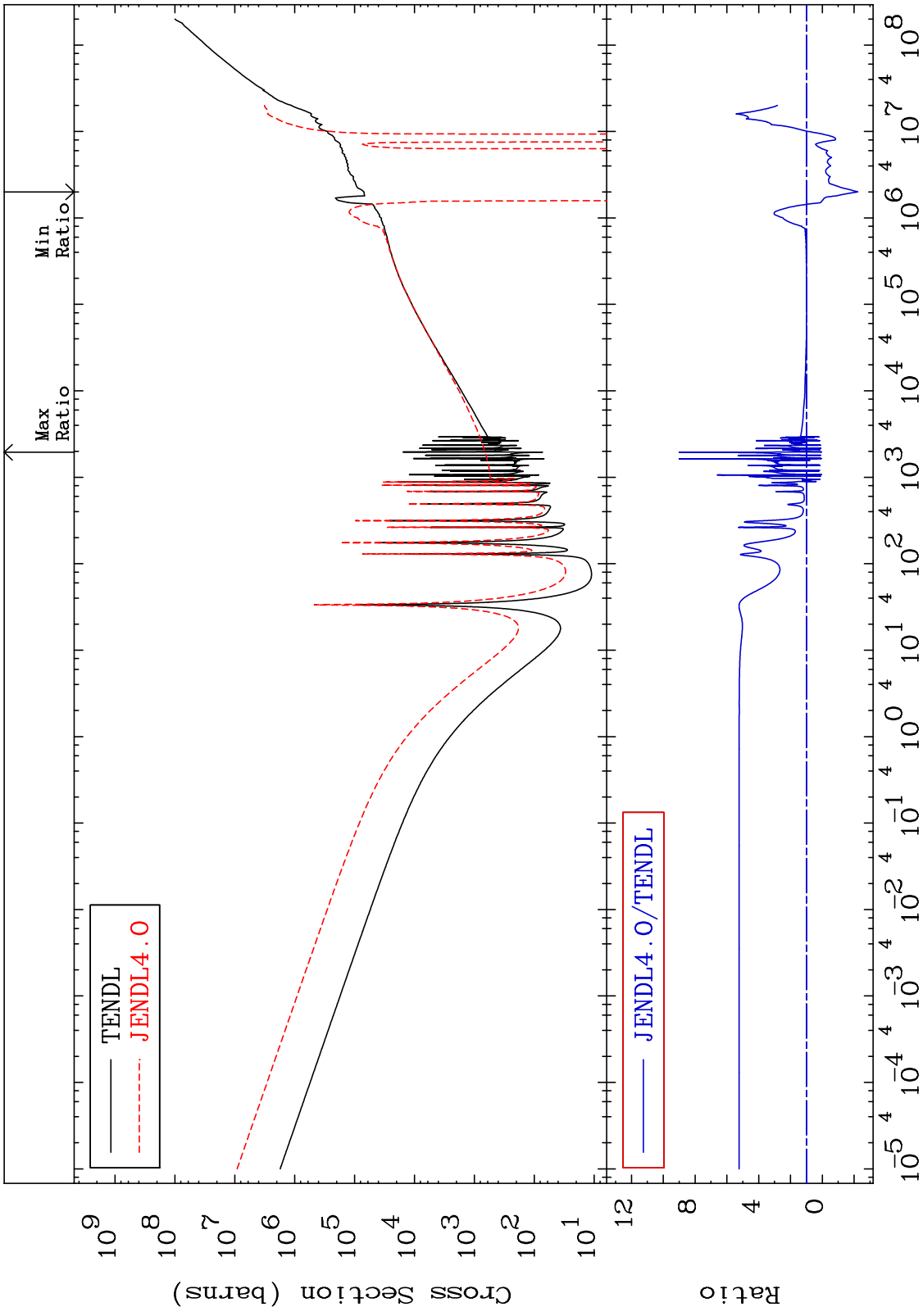
MAT 8034

He-4 Production
Cross Section

80-Hg-199
-73.45 To 9999. %



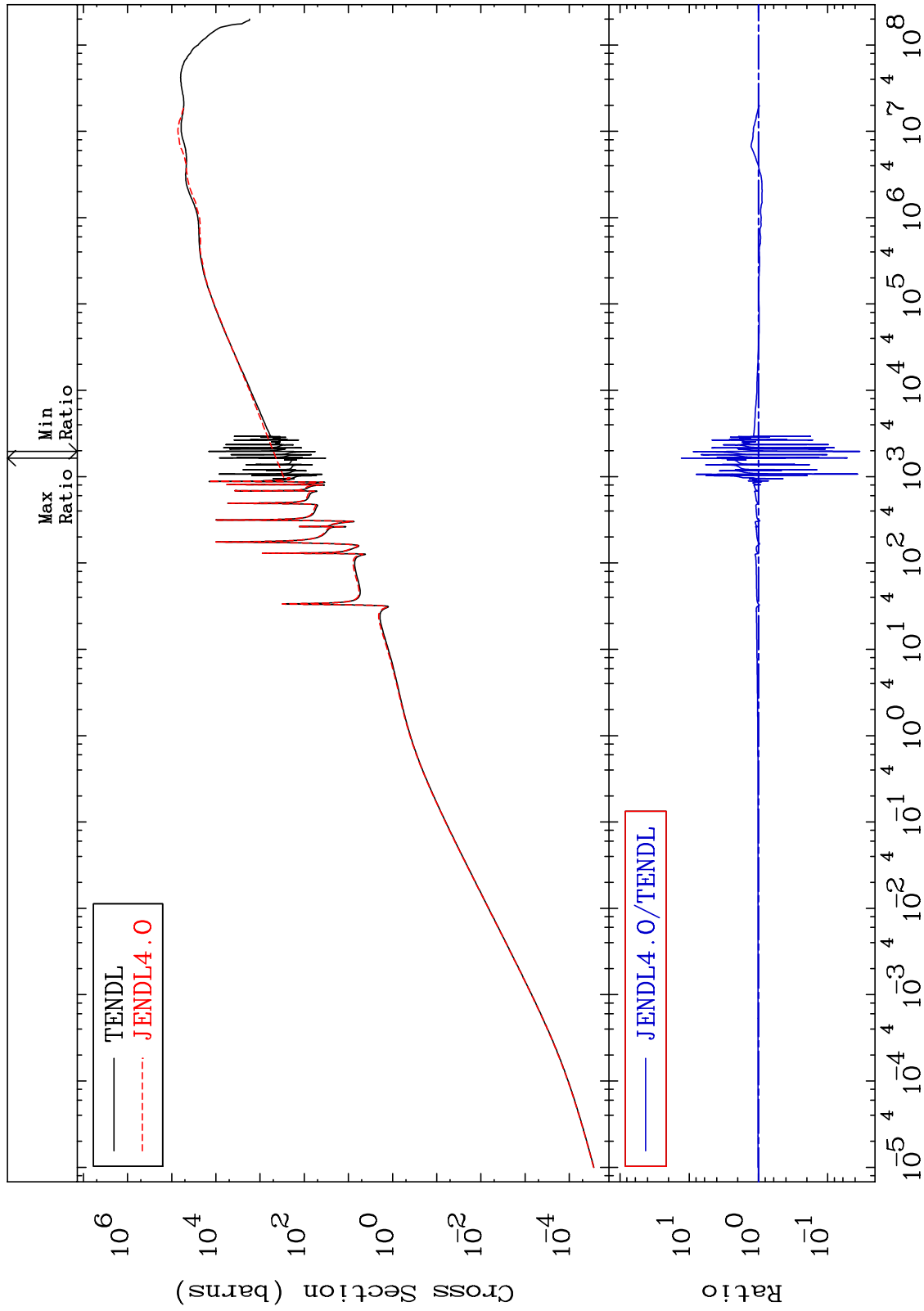
MAT 8034 Kerma total (eV-barns) 80-Hg-199
 Cross Section -323.4 To 800.9 %



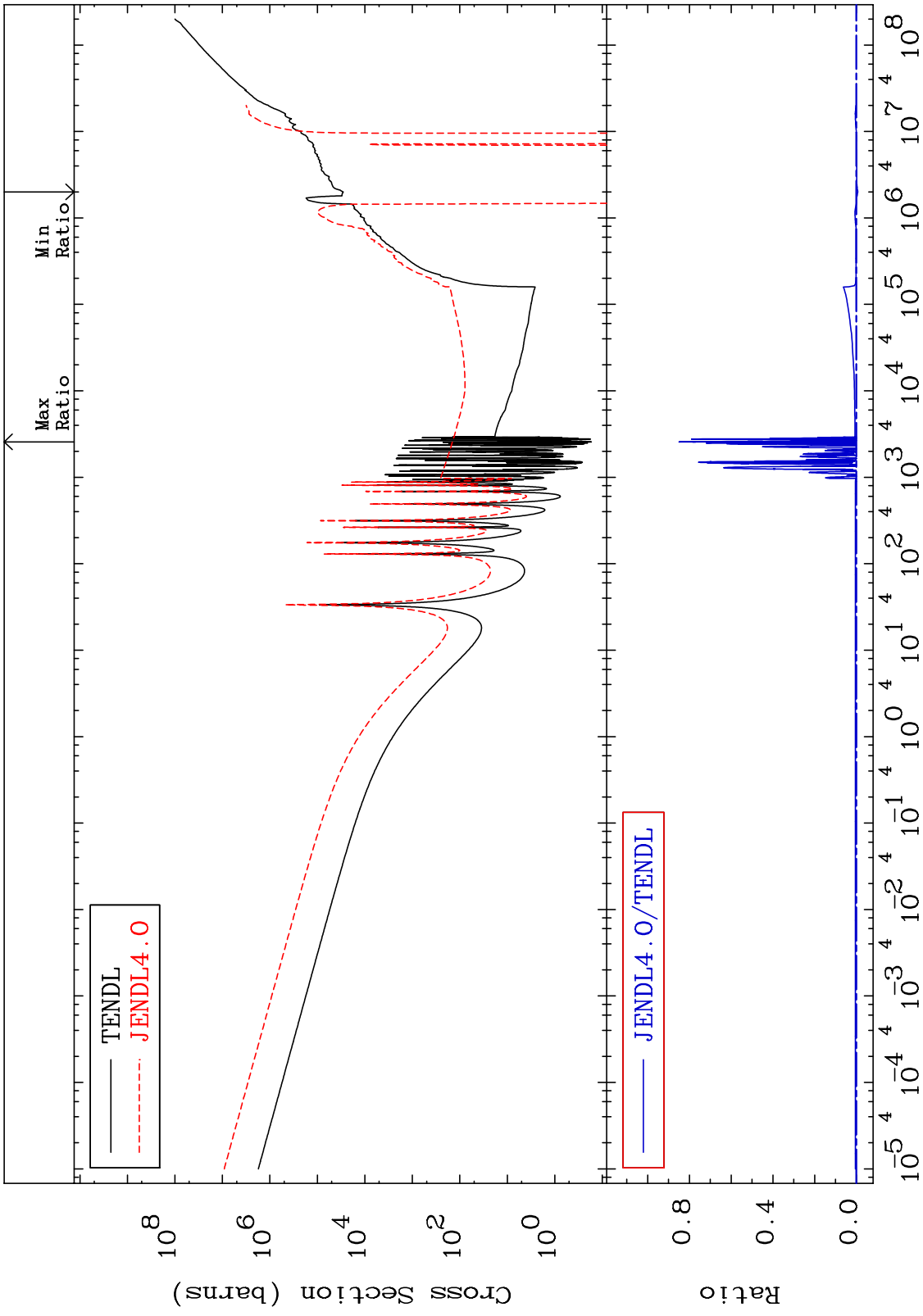
MAT 8034

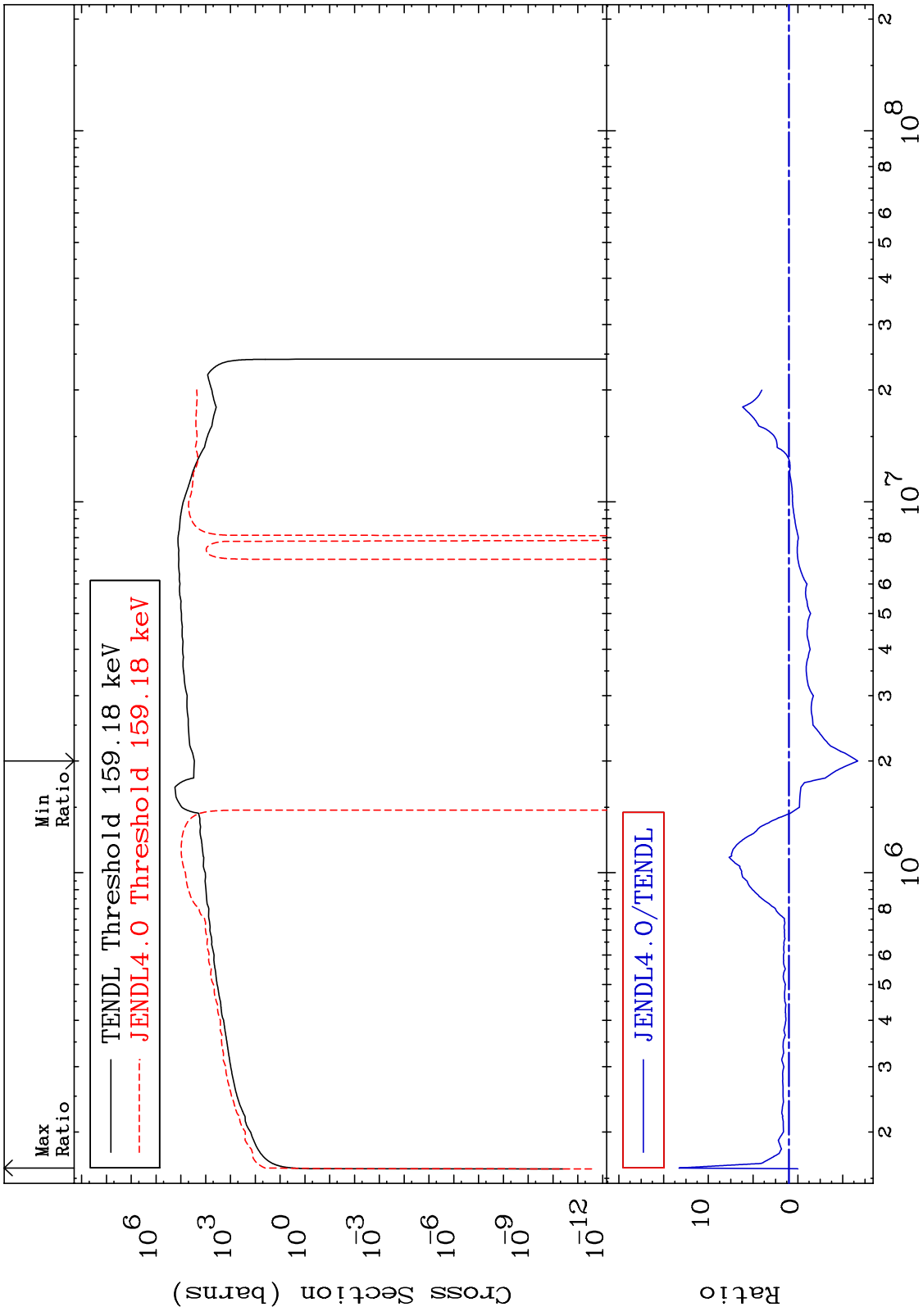
Kerma elastic
Cross Section

80-Hg-199
-96.57 To 1206. %



MAT 8034 Kerma non-elastic (all but mt.2) Cross Section 80-Hg-199 -768.8 To 9999. %

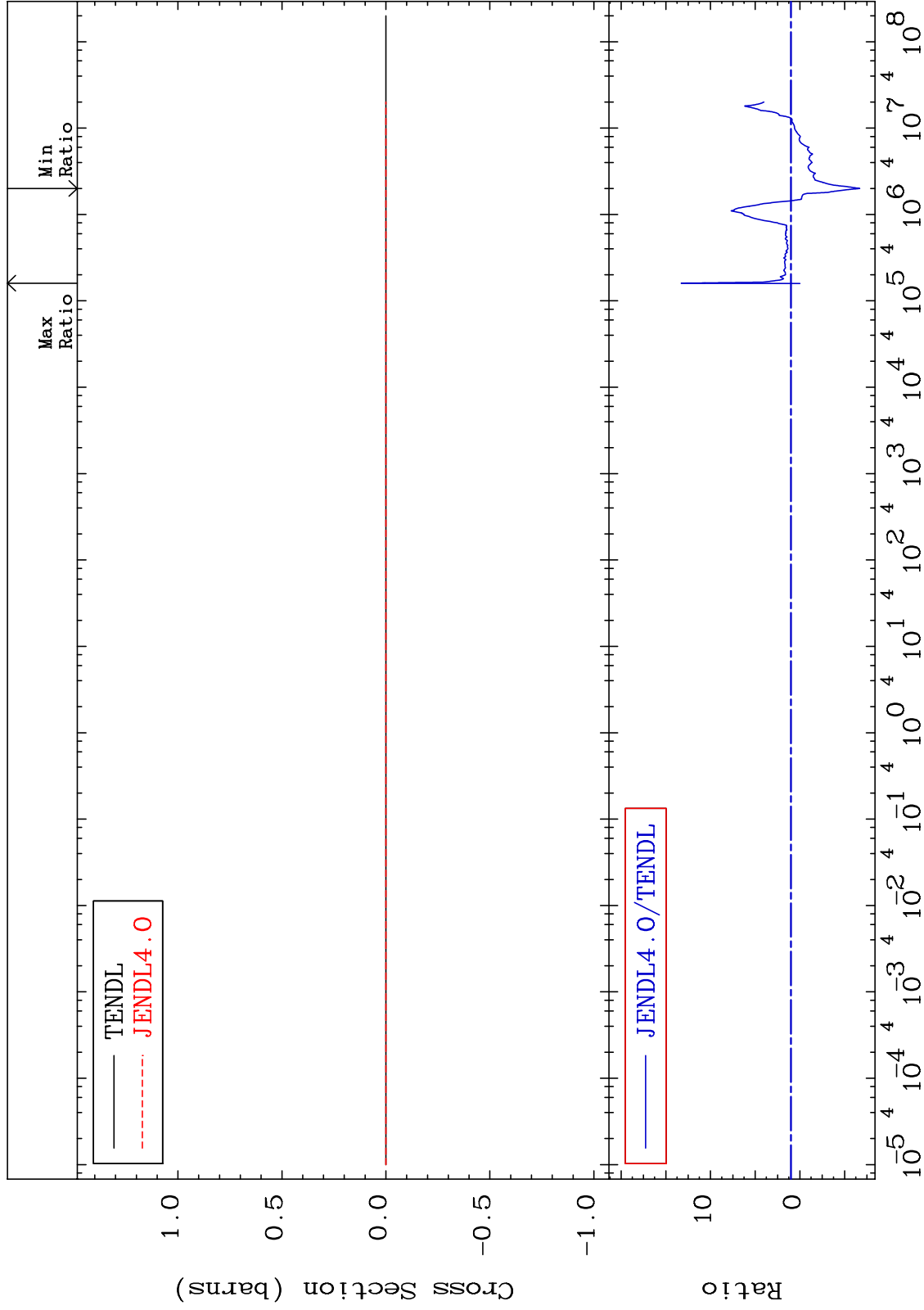




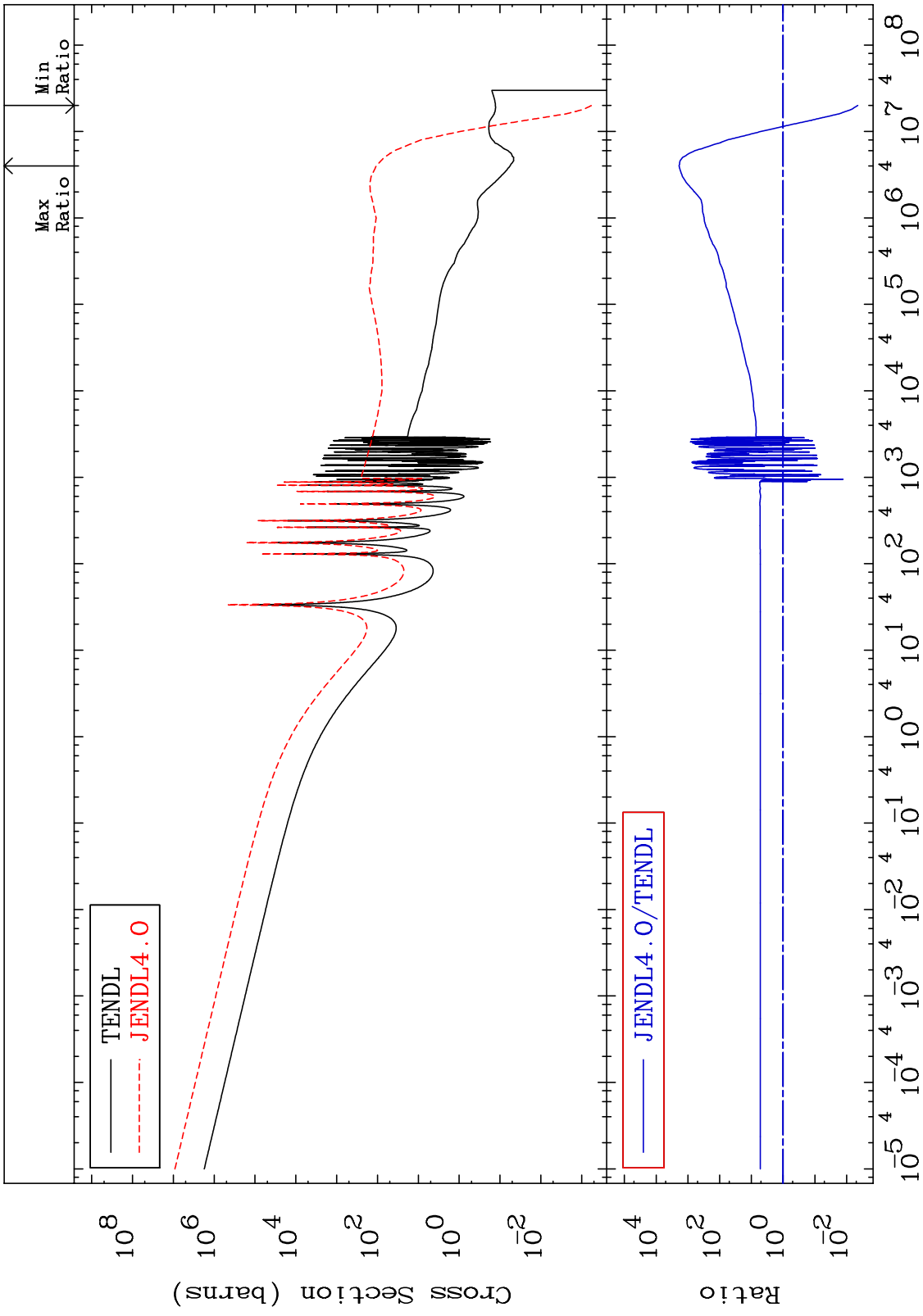
MAT 8034

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

80-Hg-199
-769.4 To 1227. %



MAT 8034 Kerma capture (mt102) 80-Hg-199
 Cross Section -99.56 To 9999. %

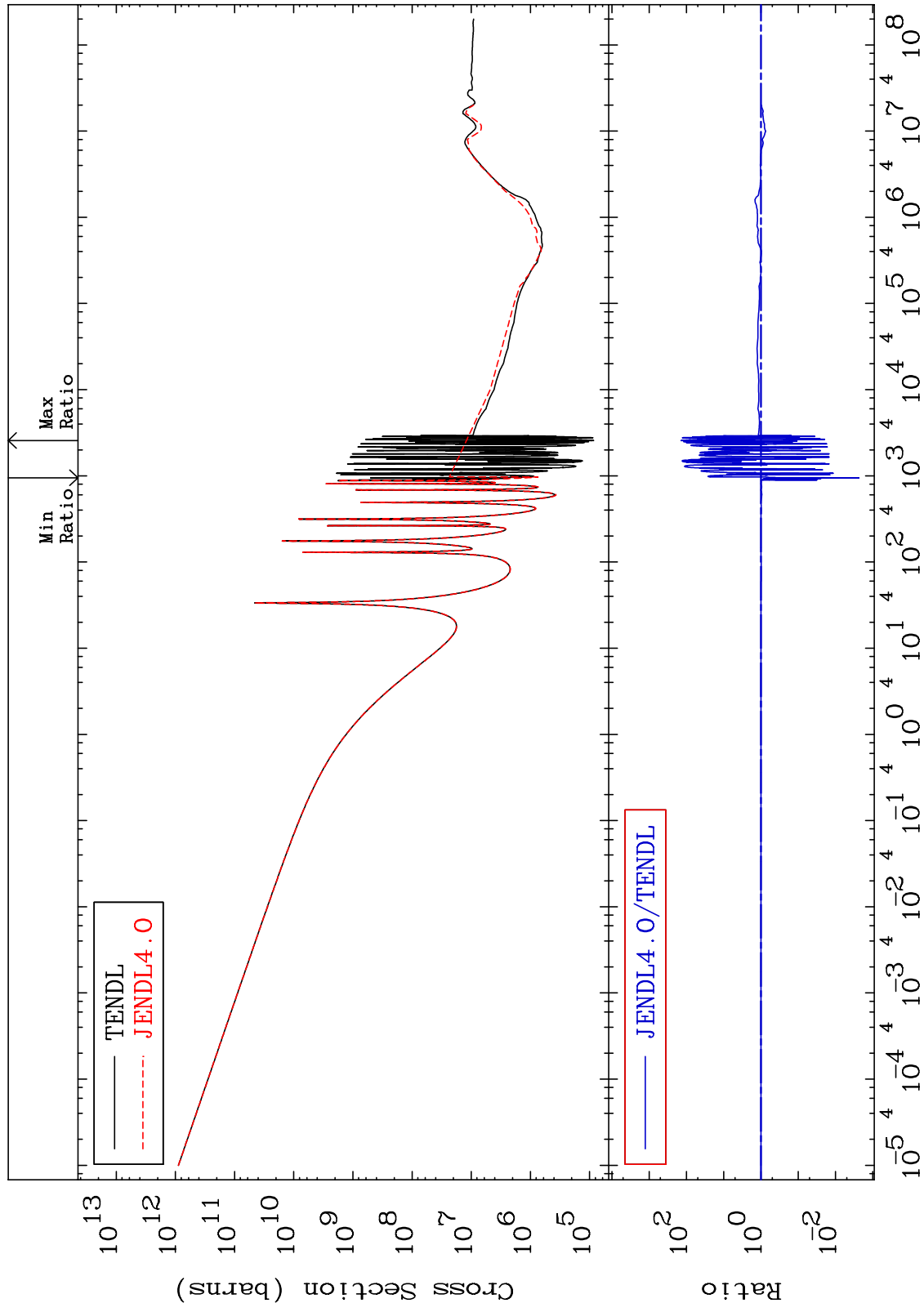


34 Incident Energy (eV) 80-Hg-199

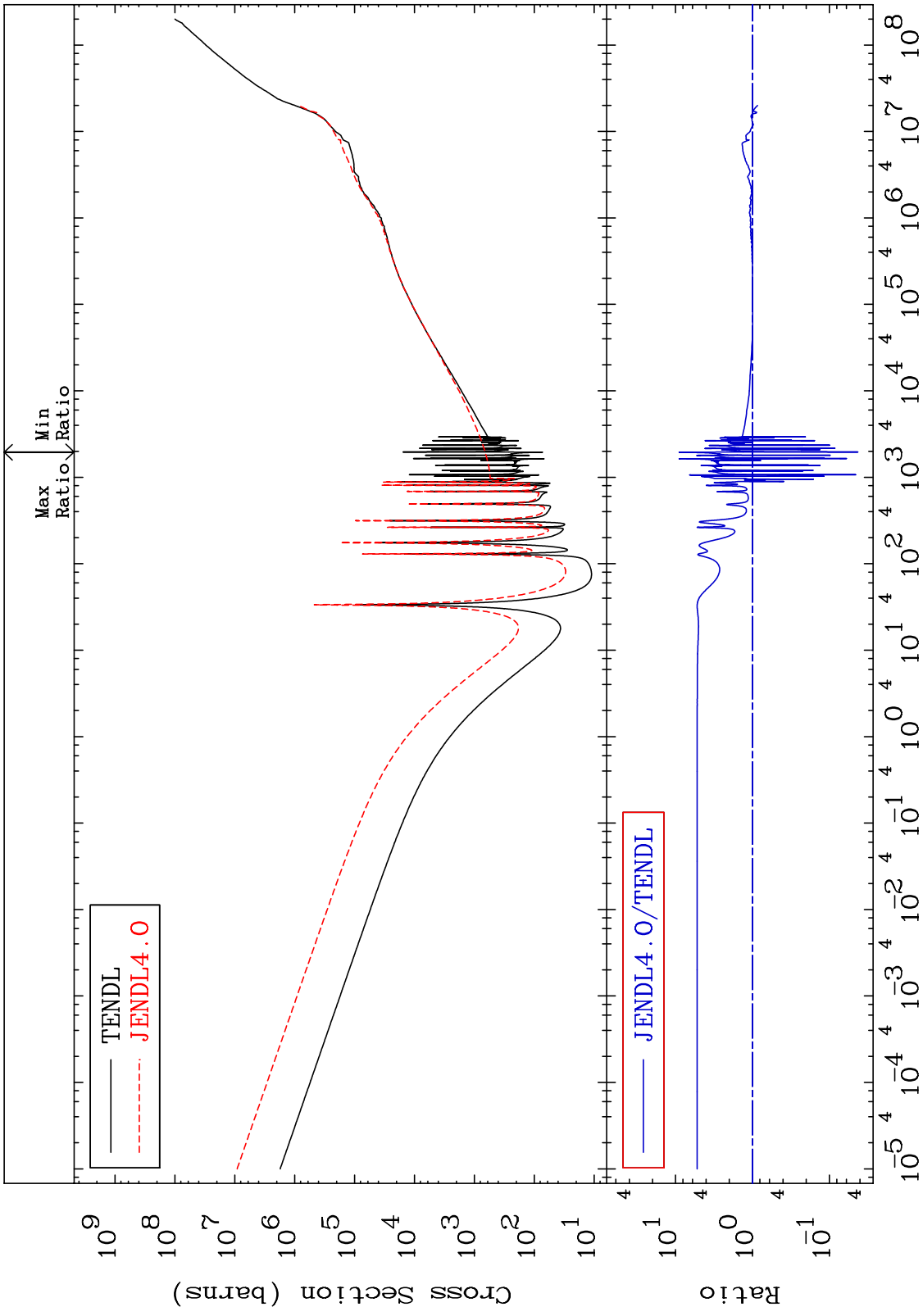
MAT 8034

Total photon (eV-barns)
Cross Section

80-Hg-199
-99.77 To 9999. %



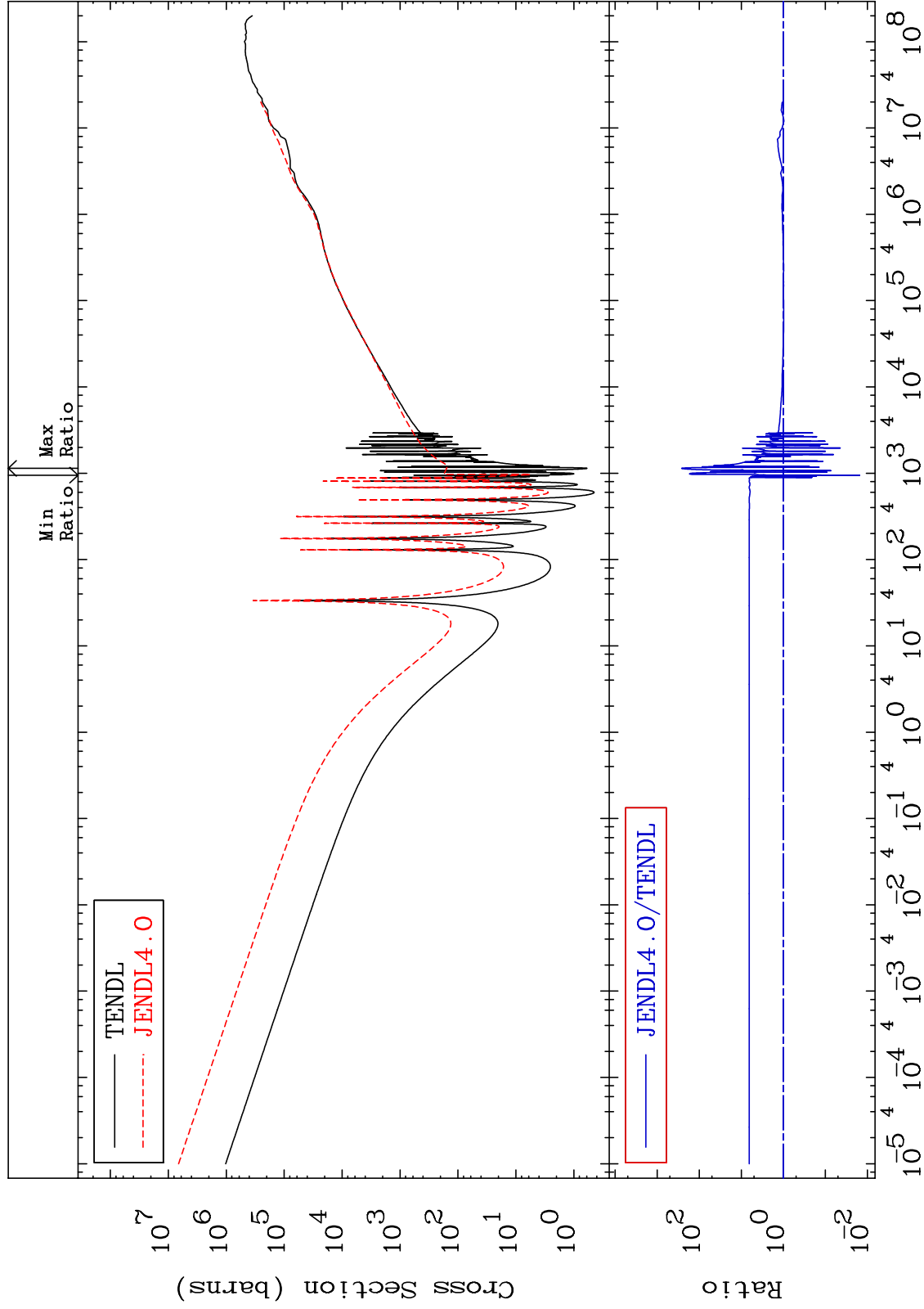
MAT 8034 Total kinematic kerma (high limit) 80-Hg-199
 Cross Section -95.75 To 800.9 %



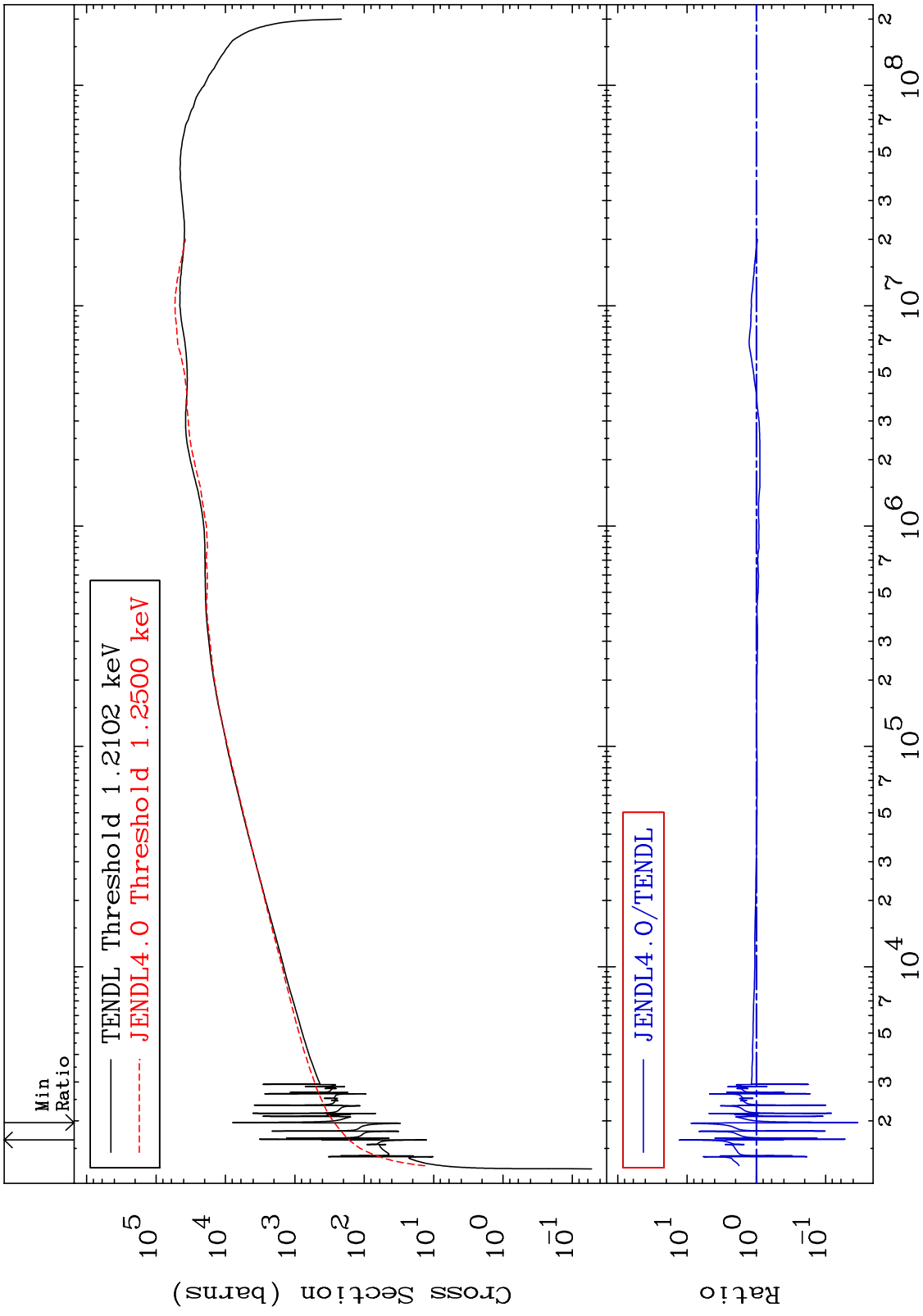
MAT 8034

Dpa total (eV-barns)
Cross Section

80-Hg-199
-98.48 To 9999. %



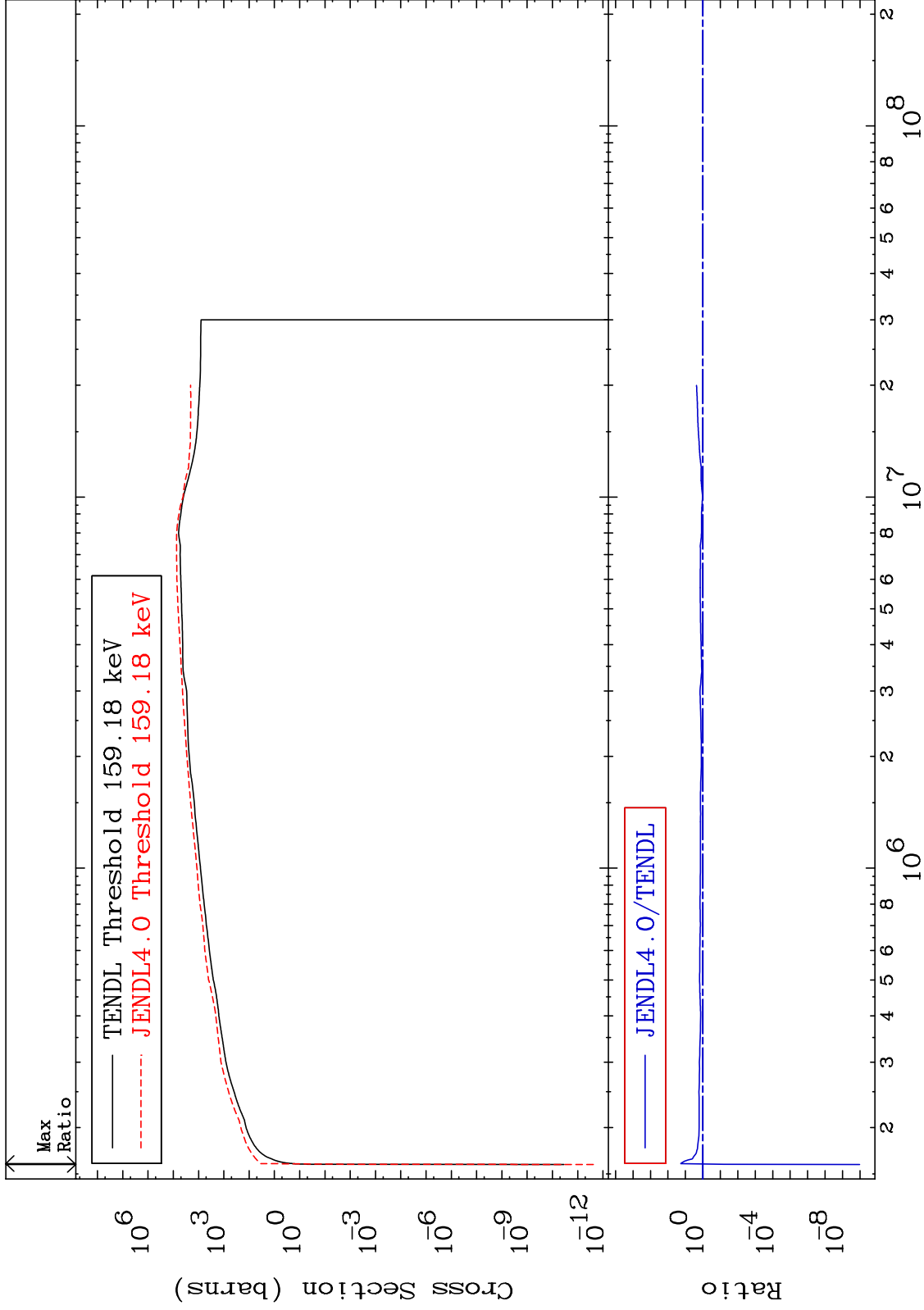
MAT 8034 Dpa elastic (mt2) 80-Hg-199
 Cross Section -96.58 To 1206. %



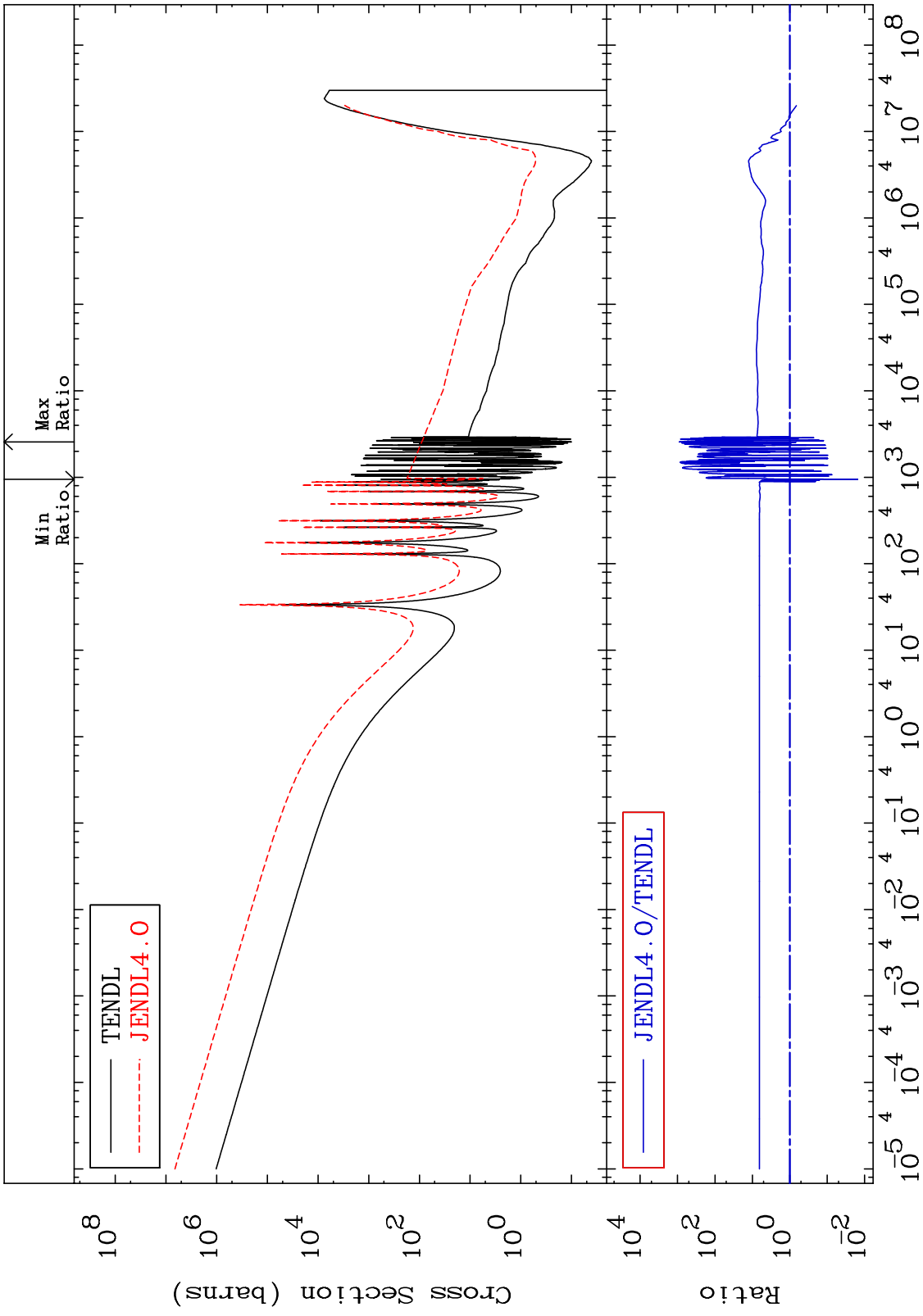
MAT 8034

Dpa inelastic (mt51-91)
Cross Section

80-Hg-199
-100.0 To 1730. %

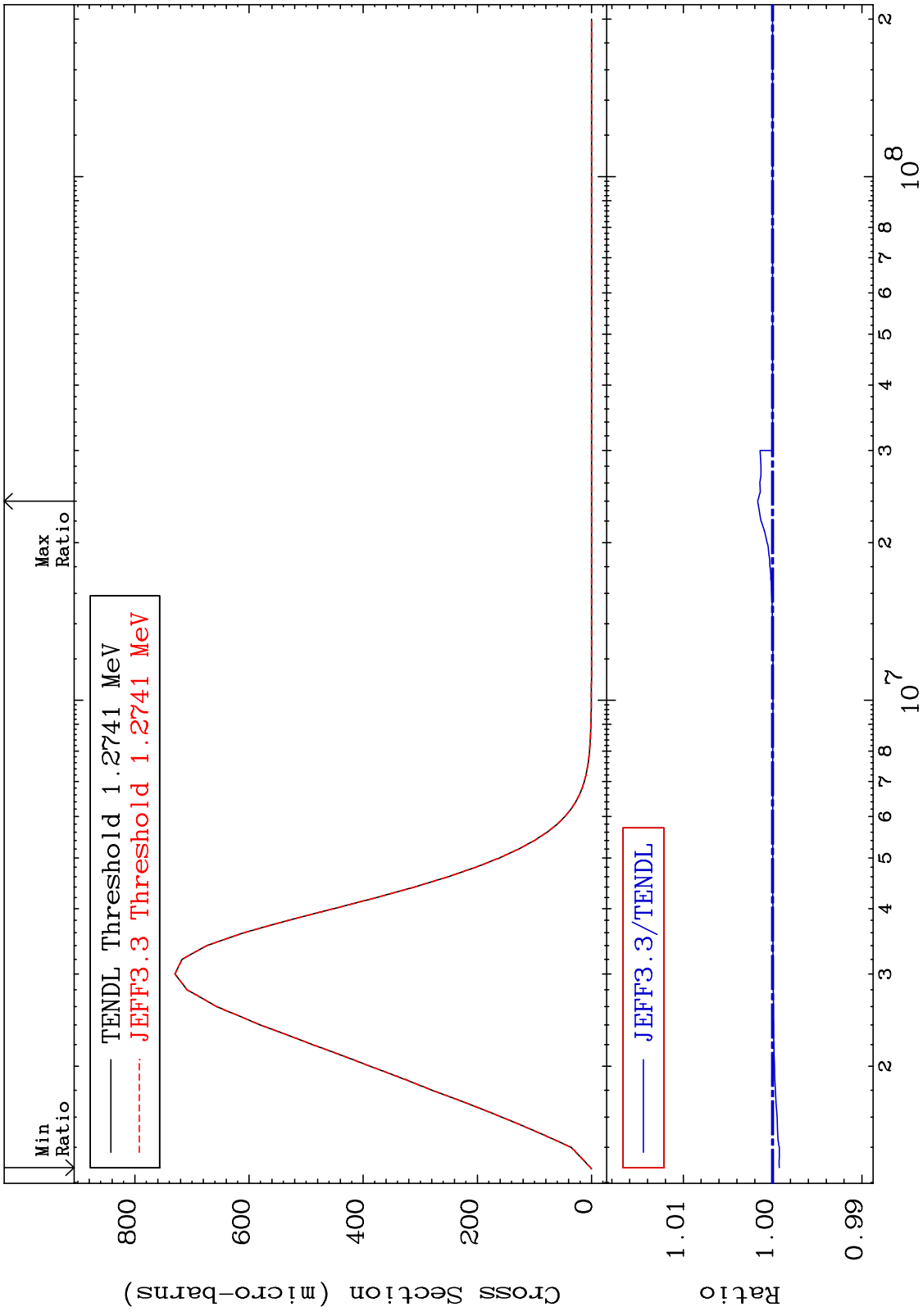


MAT 8034 Dpa disappearance (mt102 -120) 80-Hg-199
 Cross Section -98.48 To 9999. %

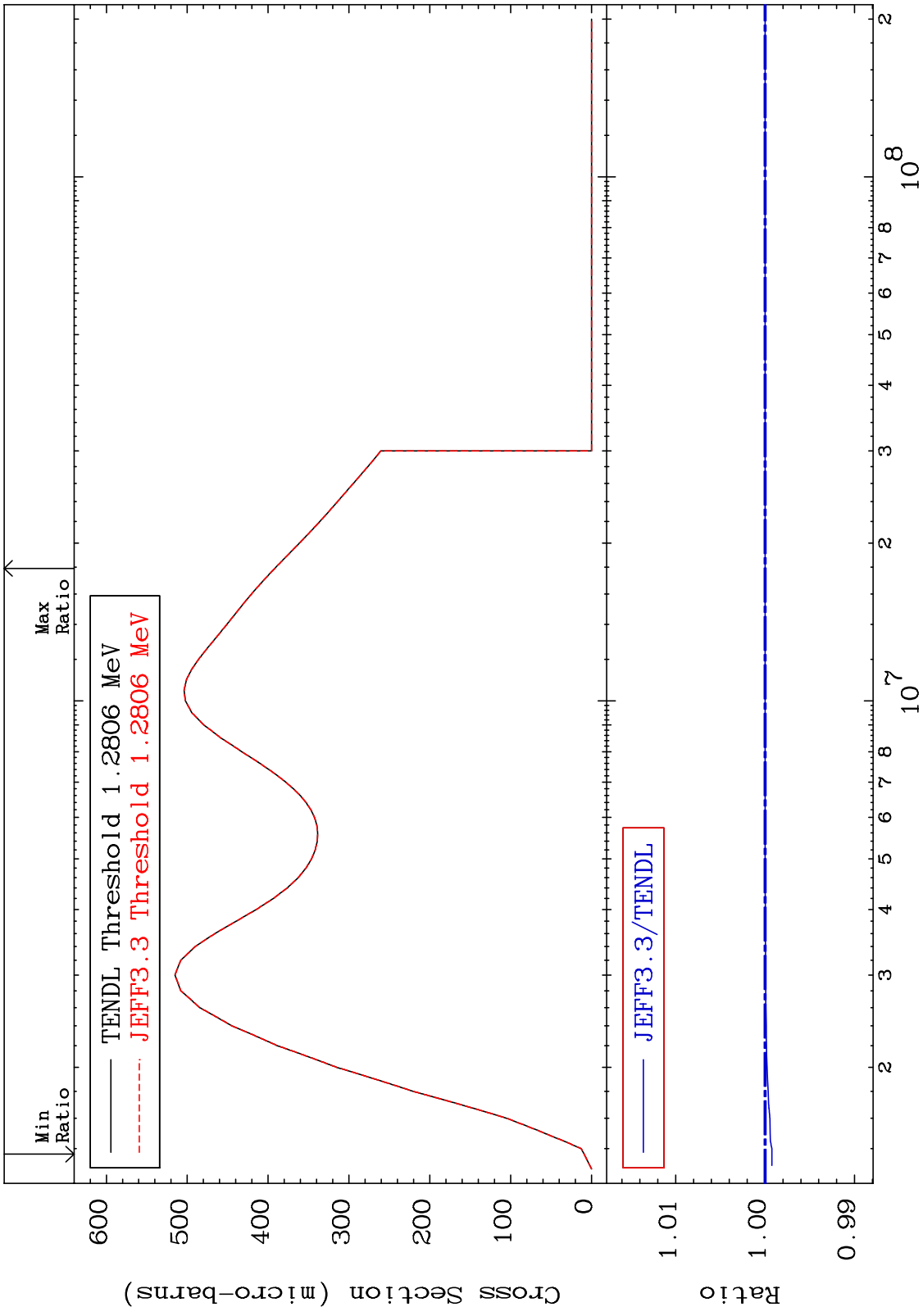


40 Incident Energy (eV) 80-Hg-199

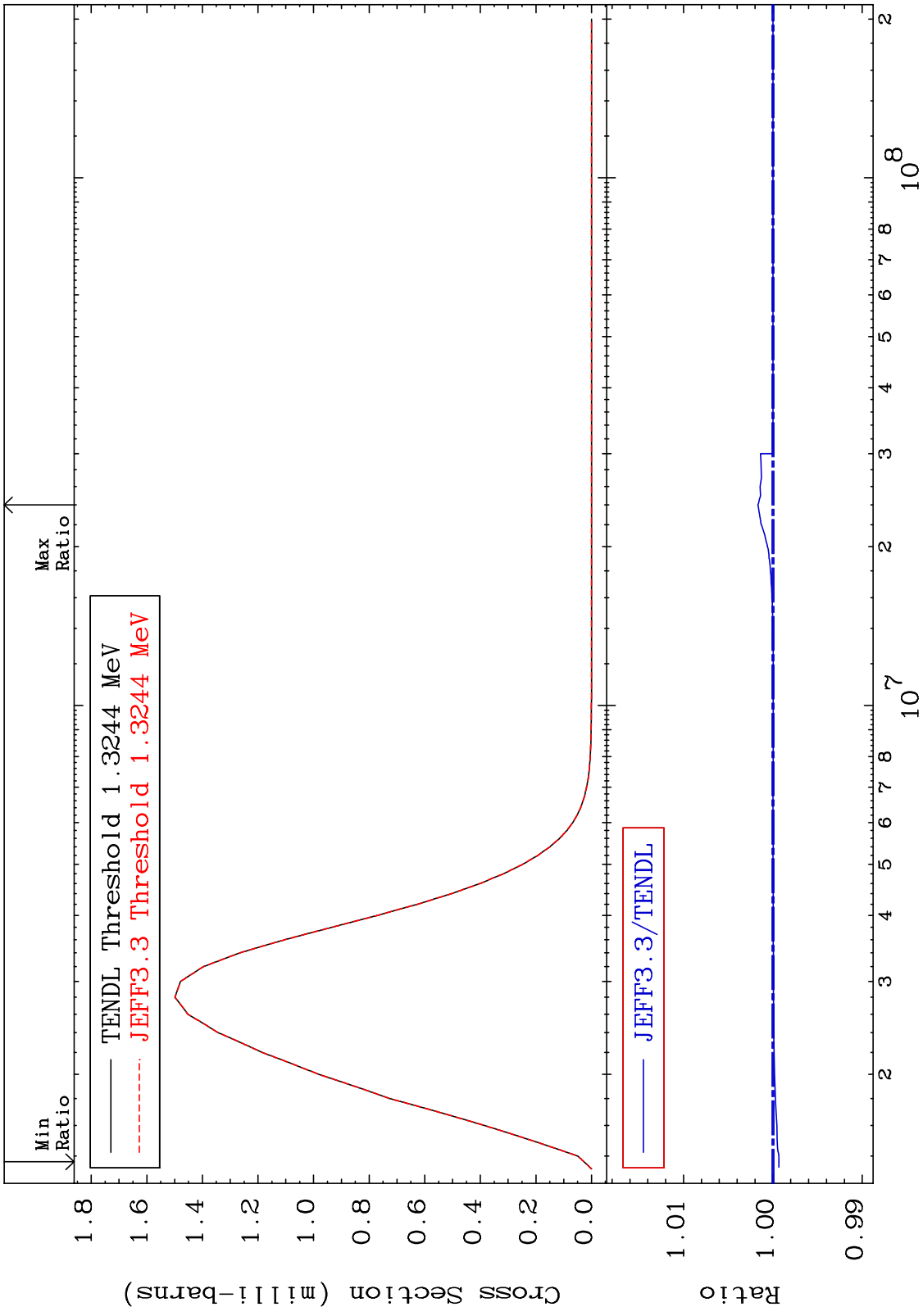
MAT 8034 MT= 74 (n,n') Level Cross Section 80-Hg-199
 -0.074 To 0.167 %



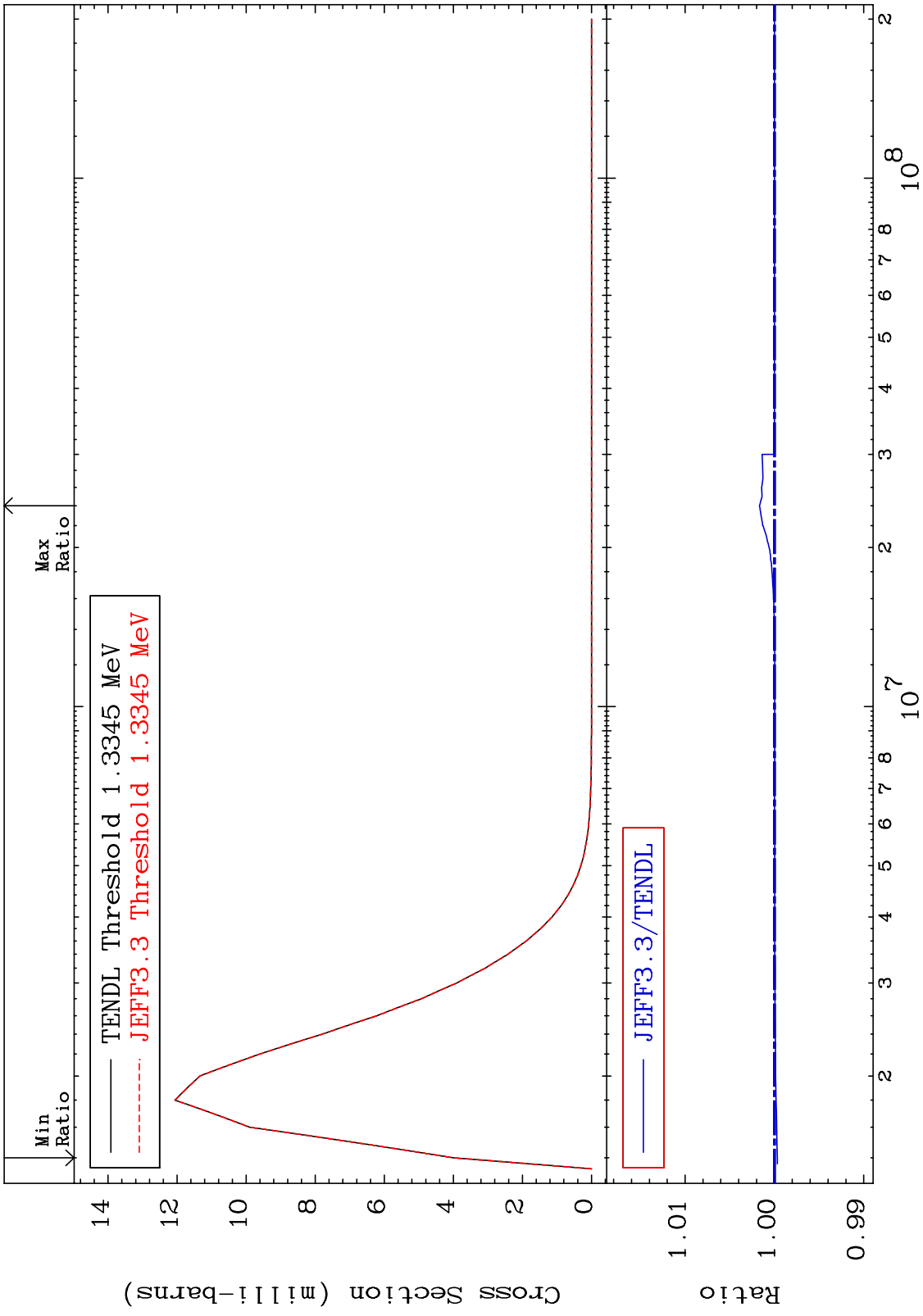
MAT 8034 MT= 75 (n,n') Level Cross Section 80-Hg-199
 -0.075 To 0.000 %



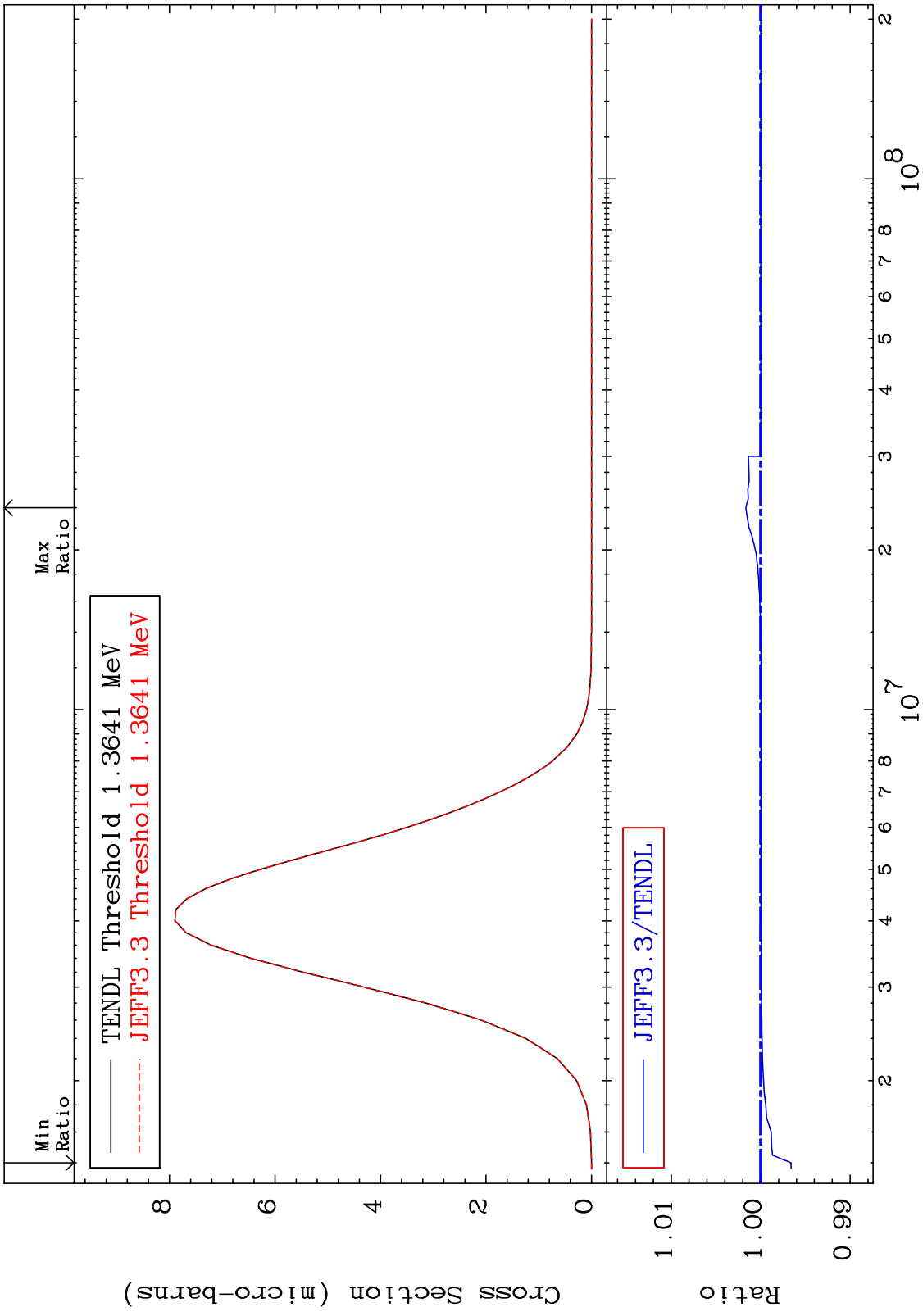
MAT 8034 MT= 76 (n,n') Level Cross Section -0.067 To 0.167 % 80-Hg-199



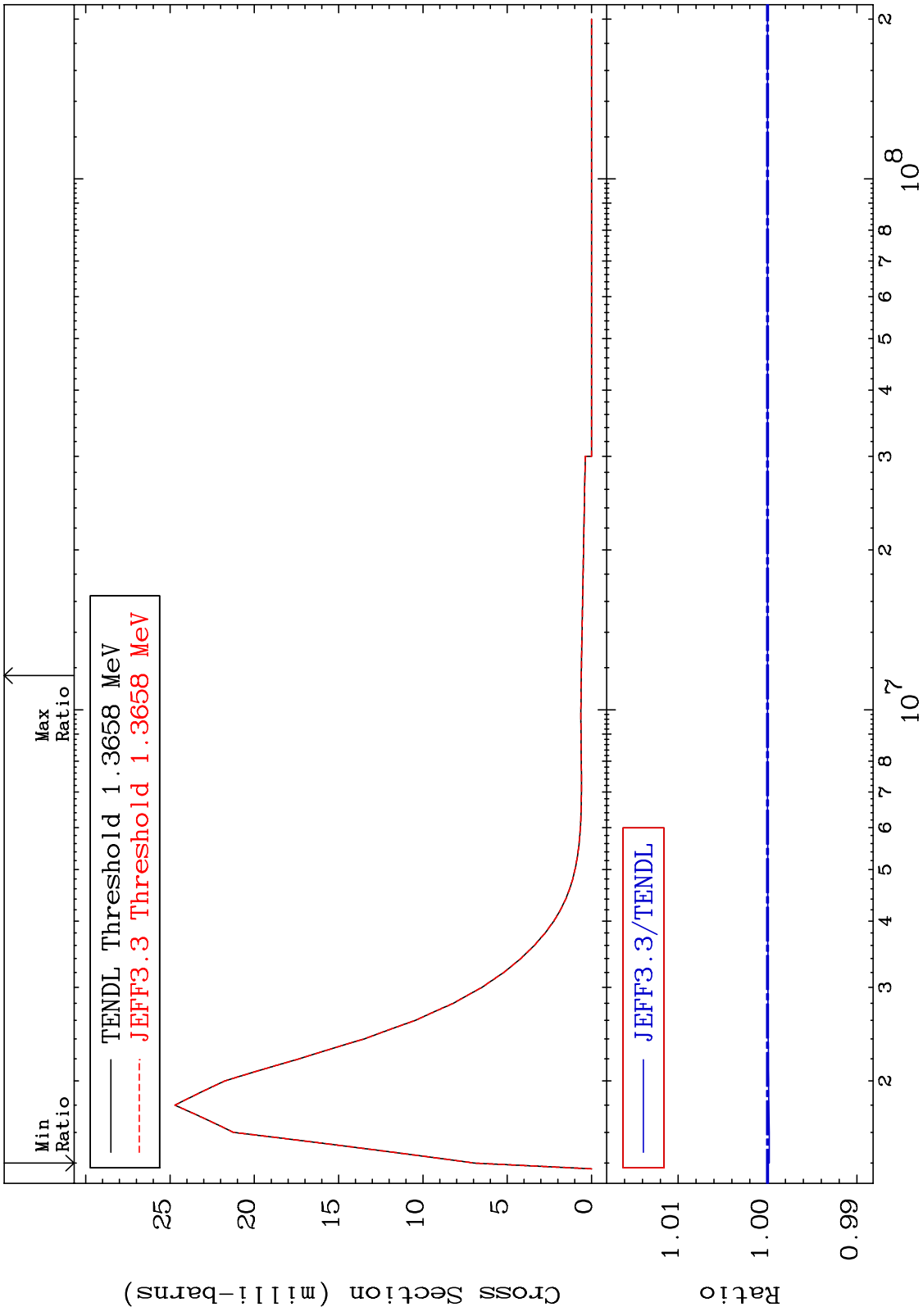
MAT 8034 MT= 77 (n,n') Level Cross Section 80-Hg-199
 -0.033 To 0.167 %



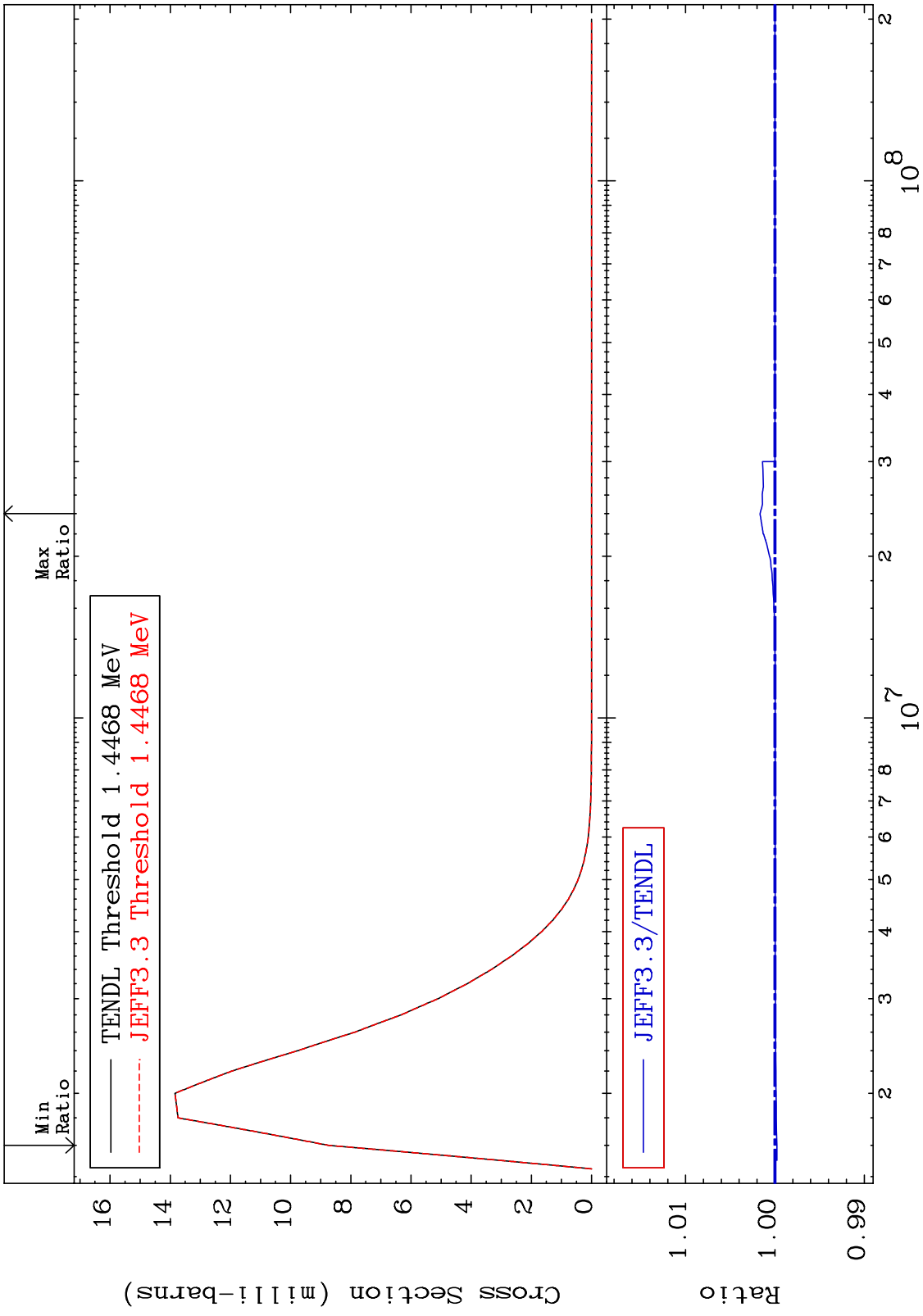
MAT 8034 MT= 78 (n,n') Level Cross Section 80-Hg-199
 -0.340 To 0.167 %



MAT 8034 MT= 79 (n,n') Level Cross Section 80-Hg-199
 -0.019 To 0.000 %



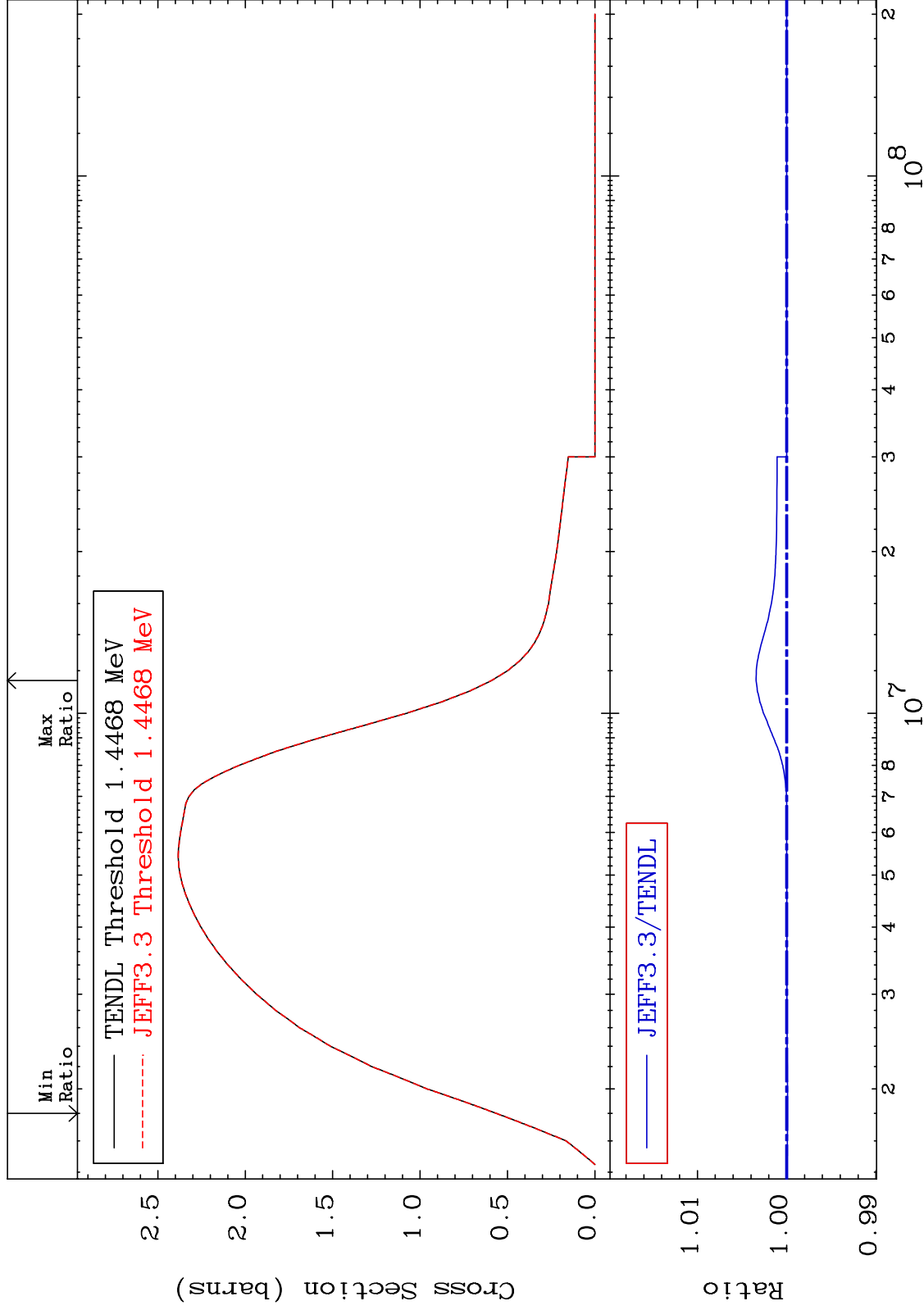
MAT 8034 MT= 80 (n, n') Level Cross Section -0.022 To 0.167 % 80-Hg-199



MAT 8034

(n, n') Continuum
Cross Section

80-Hg-199
-0.011 To 0.342 %



48

Incident Energy (eV)

80-Hg-199

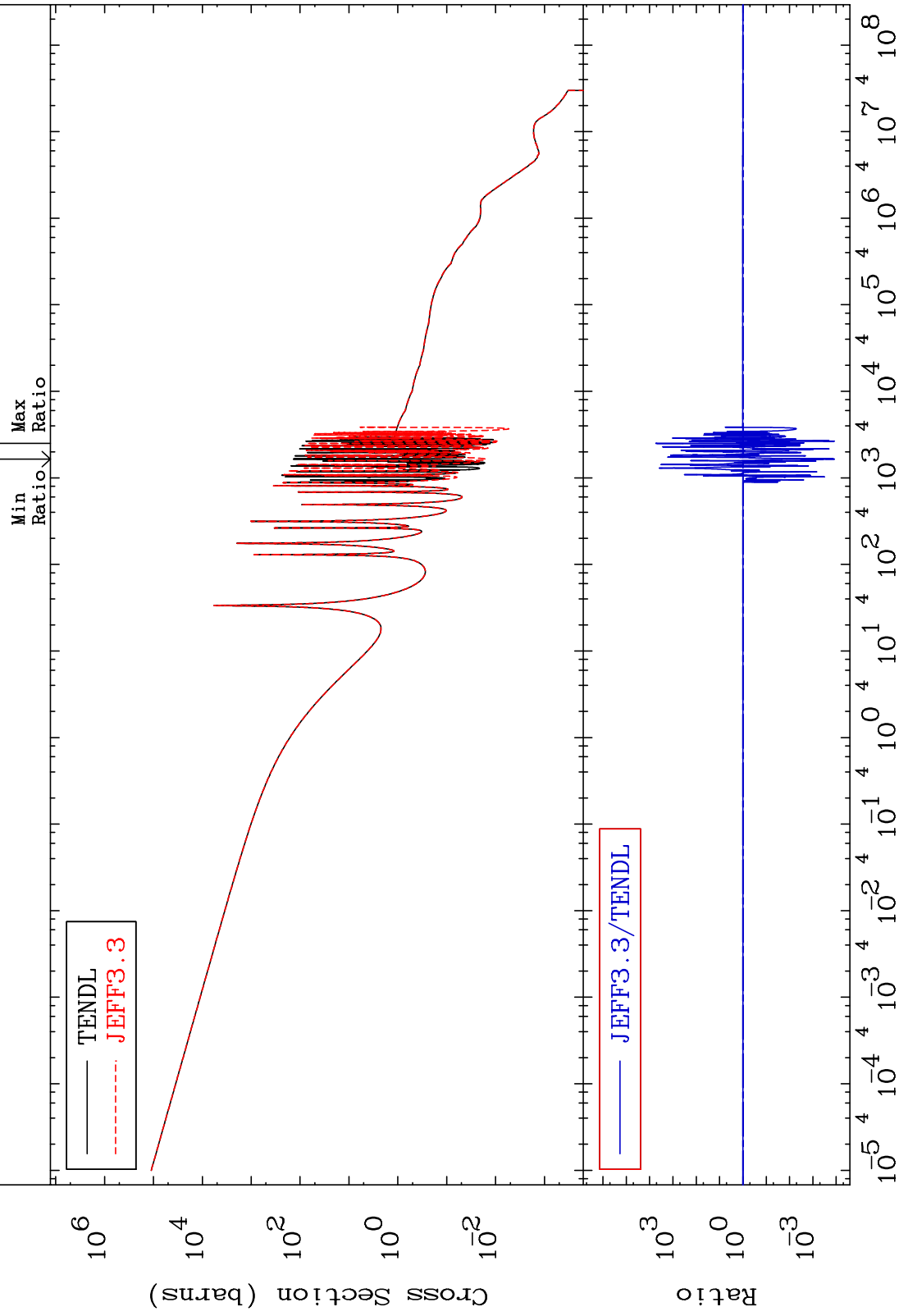
MAT 8034

(n, γ)

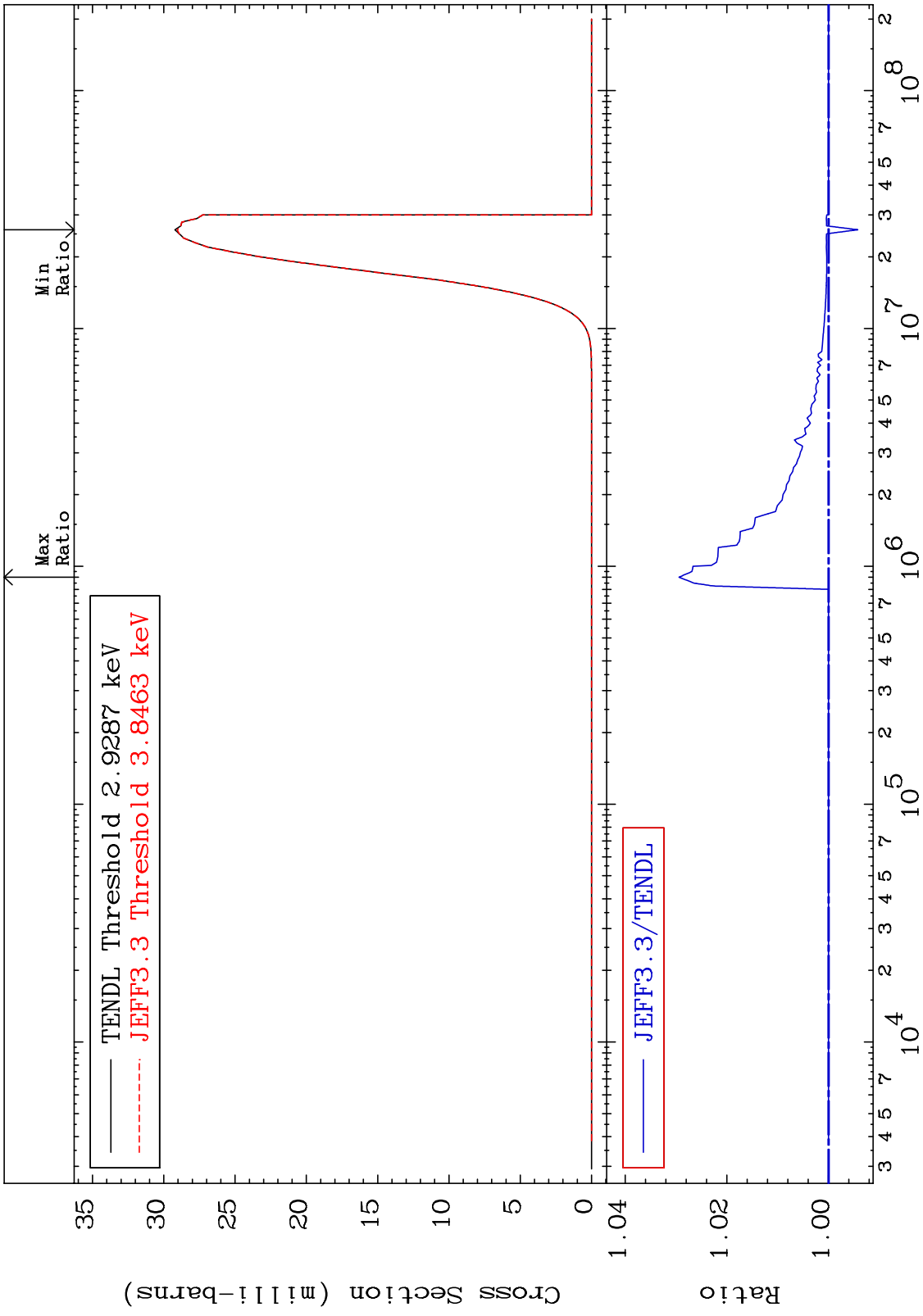
80-Hg-199

-99.99 To 9999. %

Cross Section

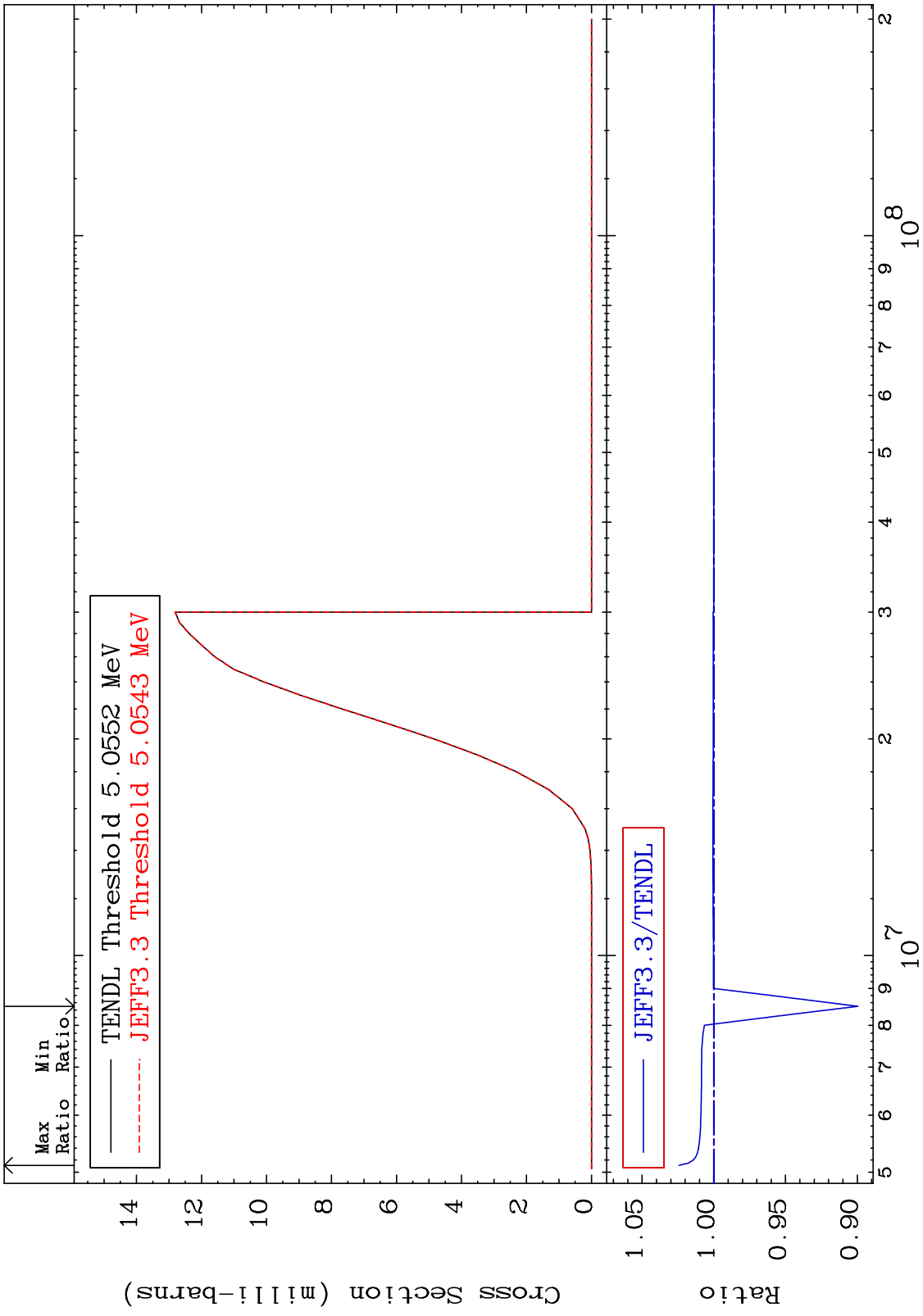


MAT 8034 (n,p) Cross Section 80-Hg-199 -0.576 To 2.940 %

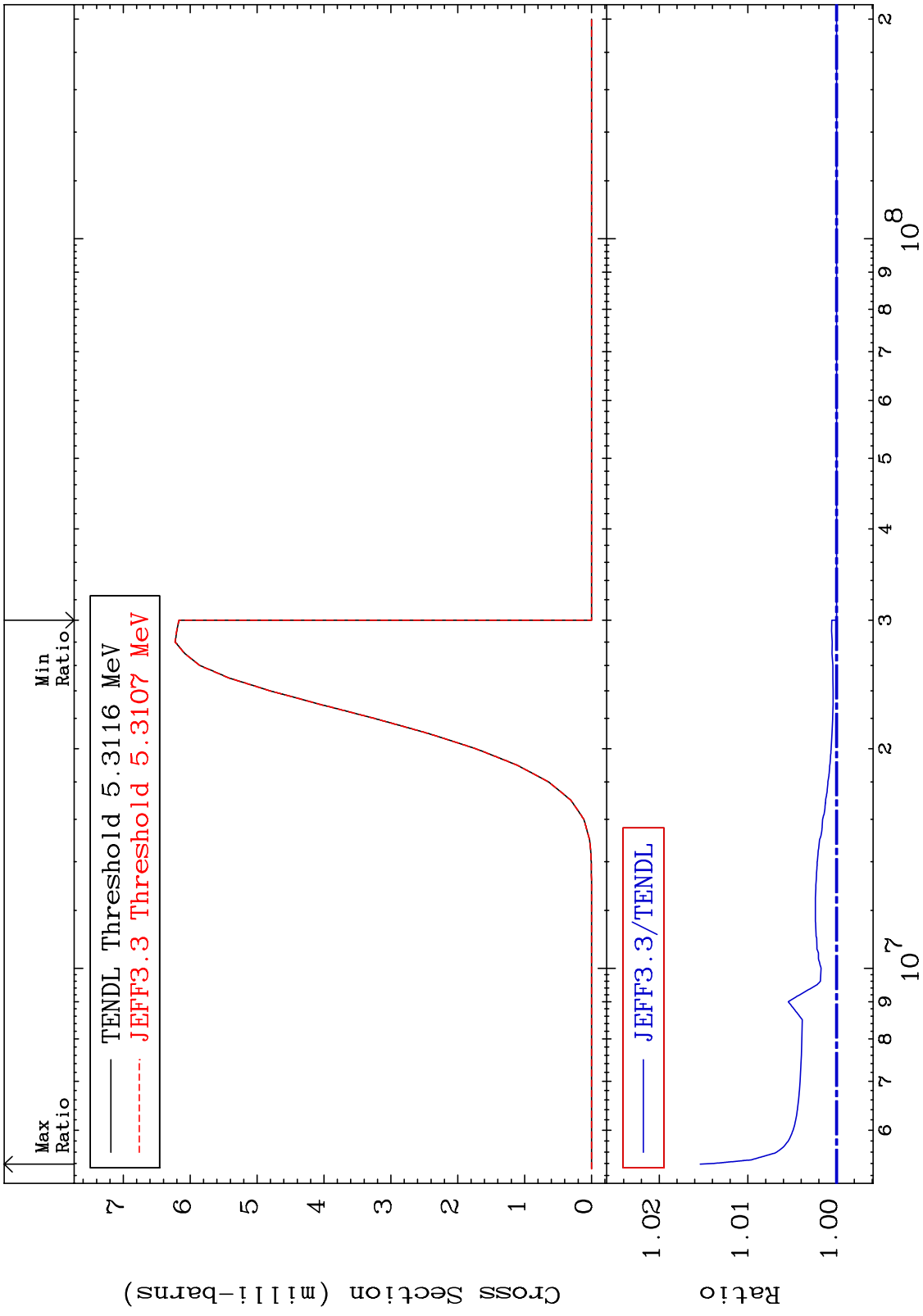


50 Incident Energy (eV) 80-Hg-199

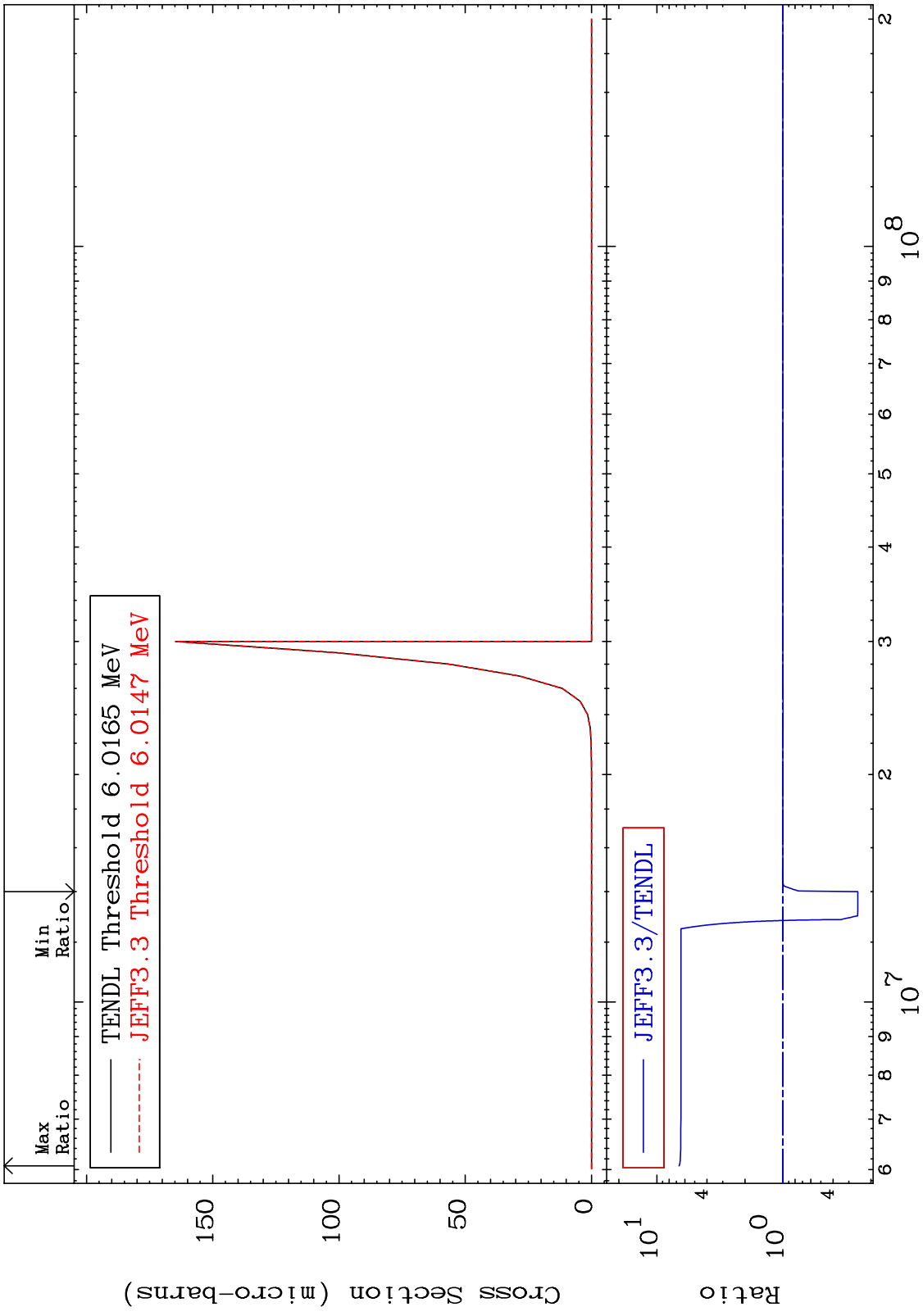
MAT 8034 (n,d) Cross Section 80-Hg-199 -10.04 To 2.426 %



MAT 8034 (n,t) Cross Section 80-Hg-199 To 1.538 %

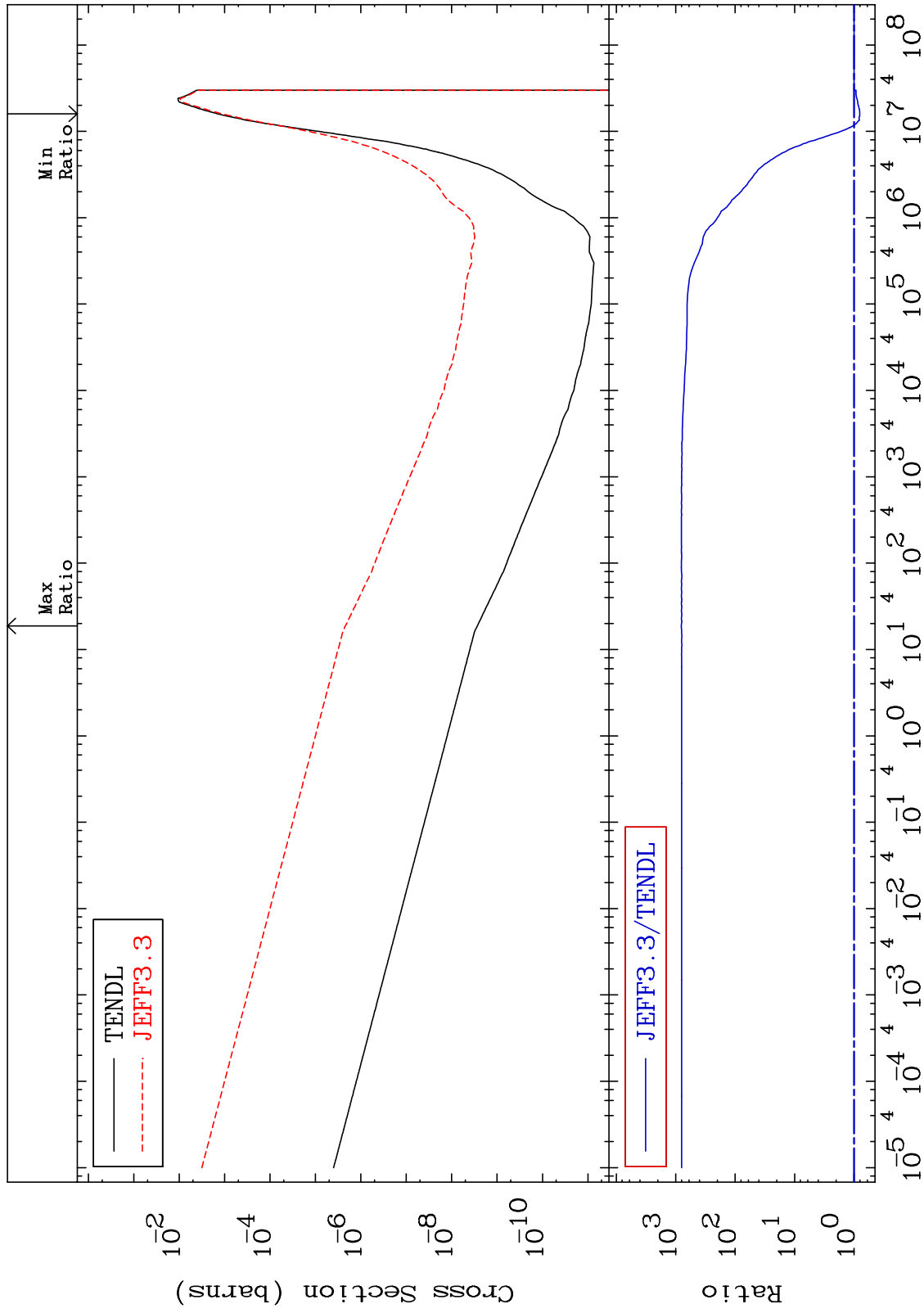


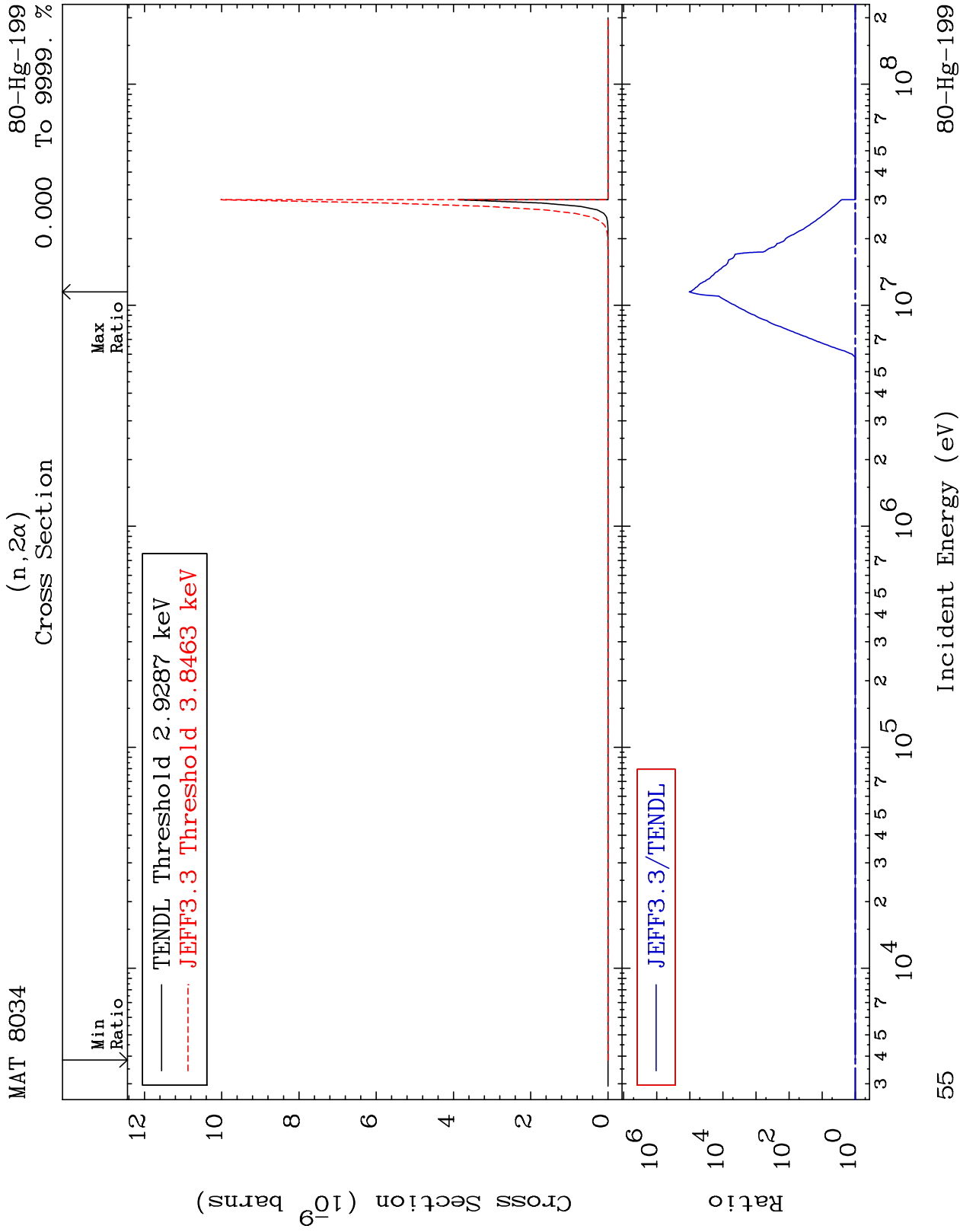
MAT 8034 (n, He-3) Cross Section 80-Hg-199 -74.57 To 566.7 %



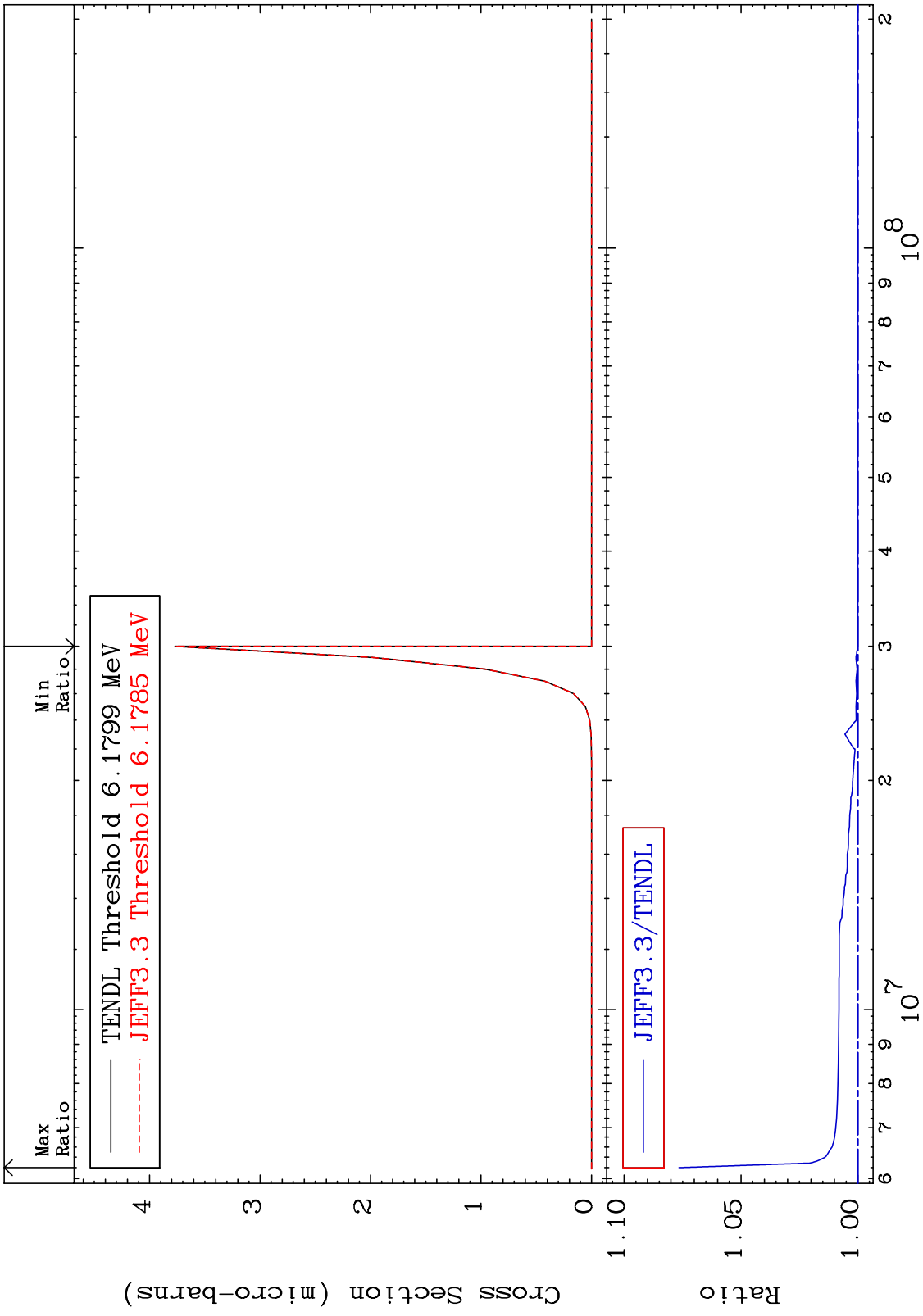
MAT 8034

(n, α) Cross Section
-19.80 To 9999. %
80-Hg-199

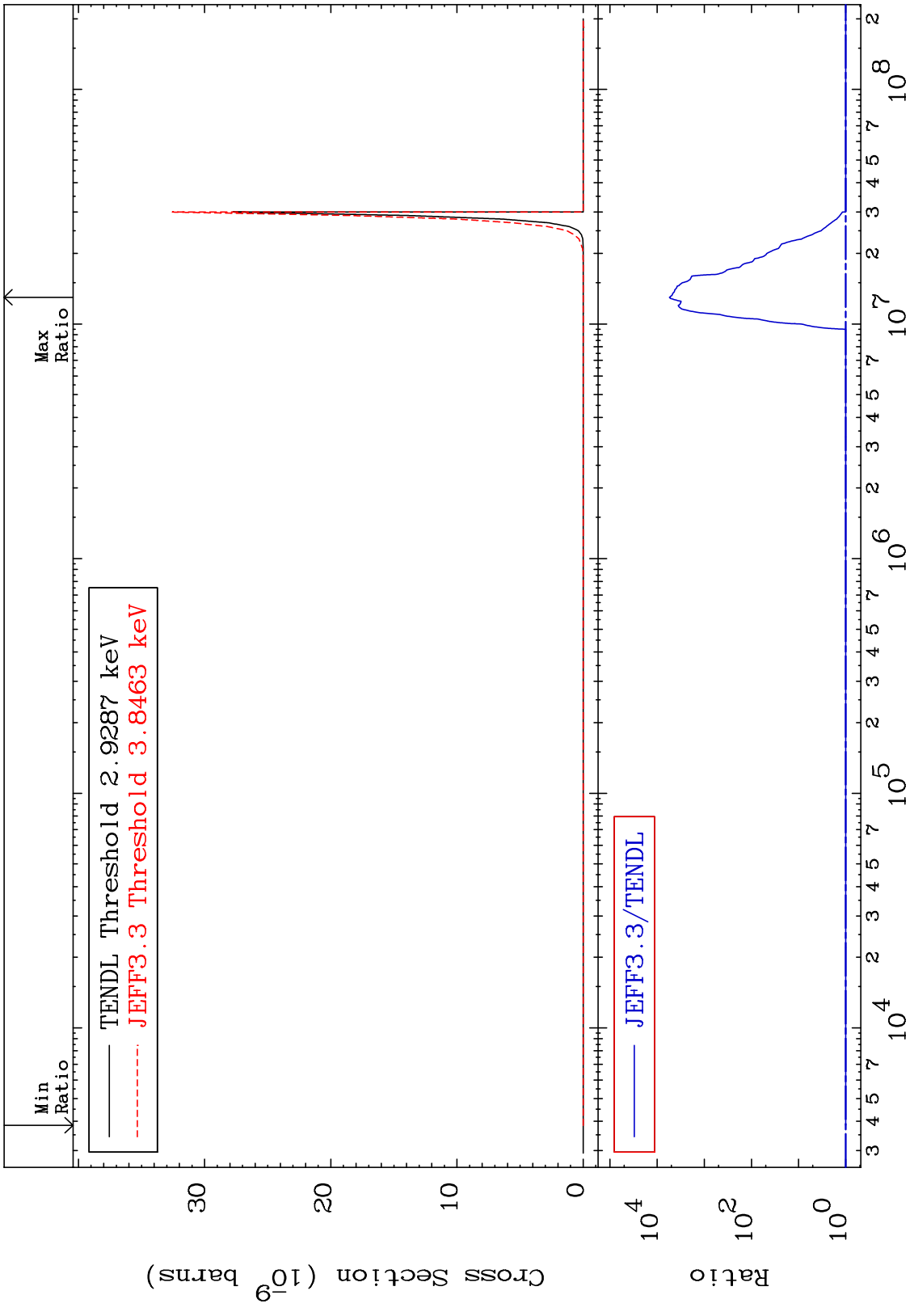




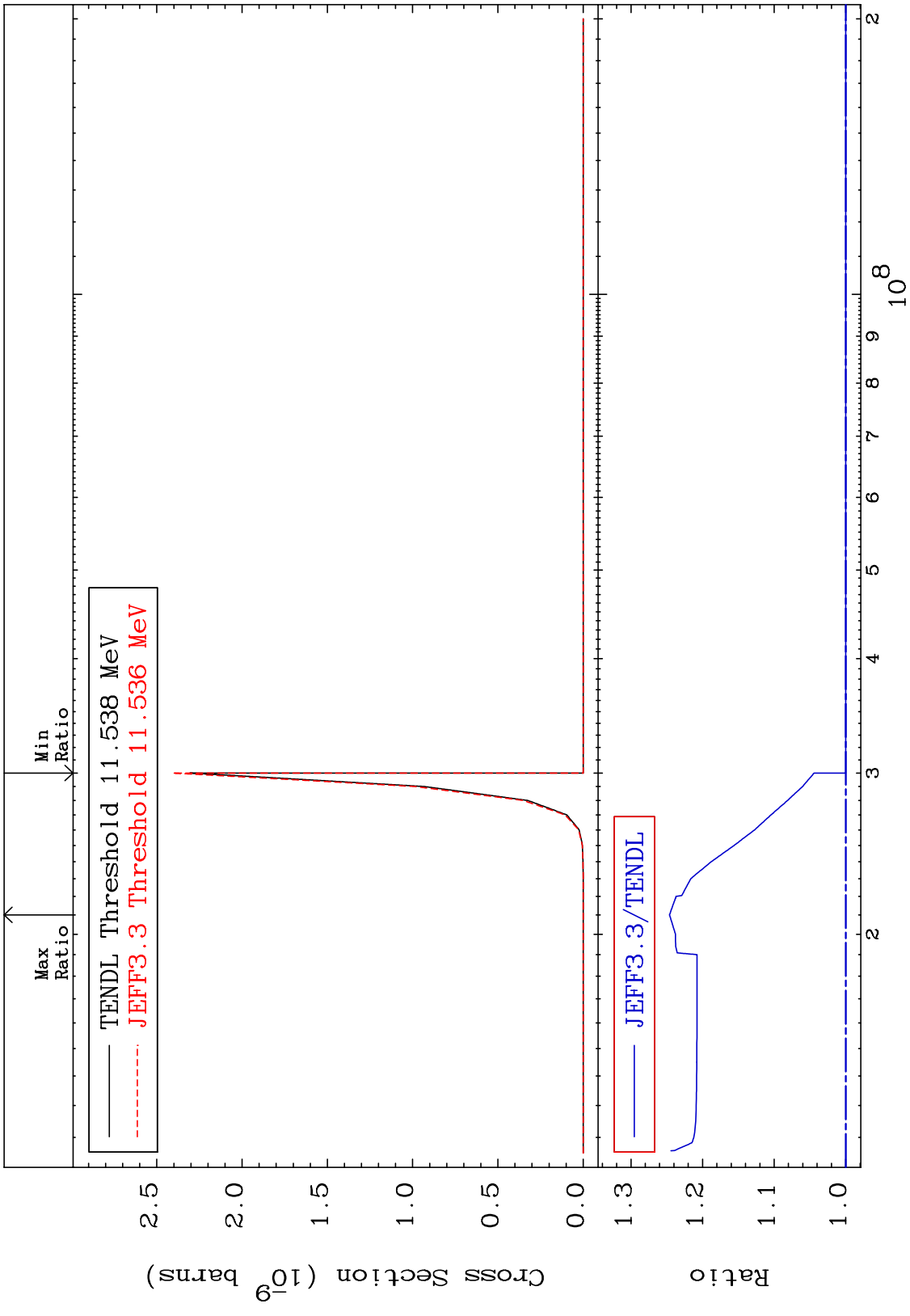
MAT 8034 (n,2p) Cross Section 80-Hg-199 -0.002 To 7.652 %



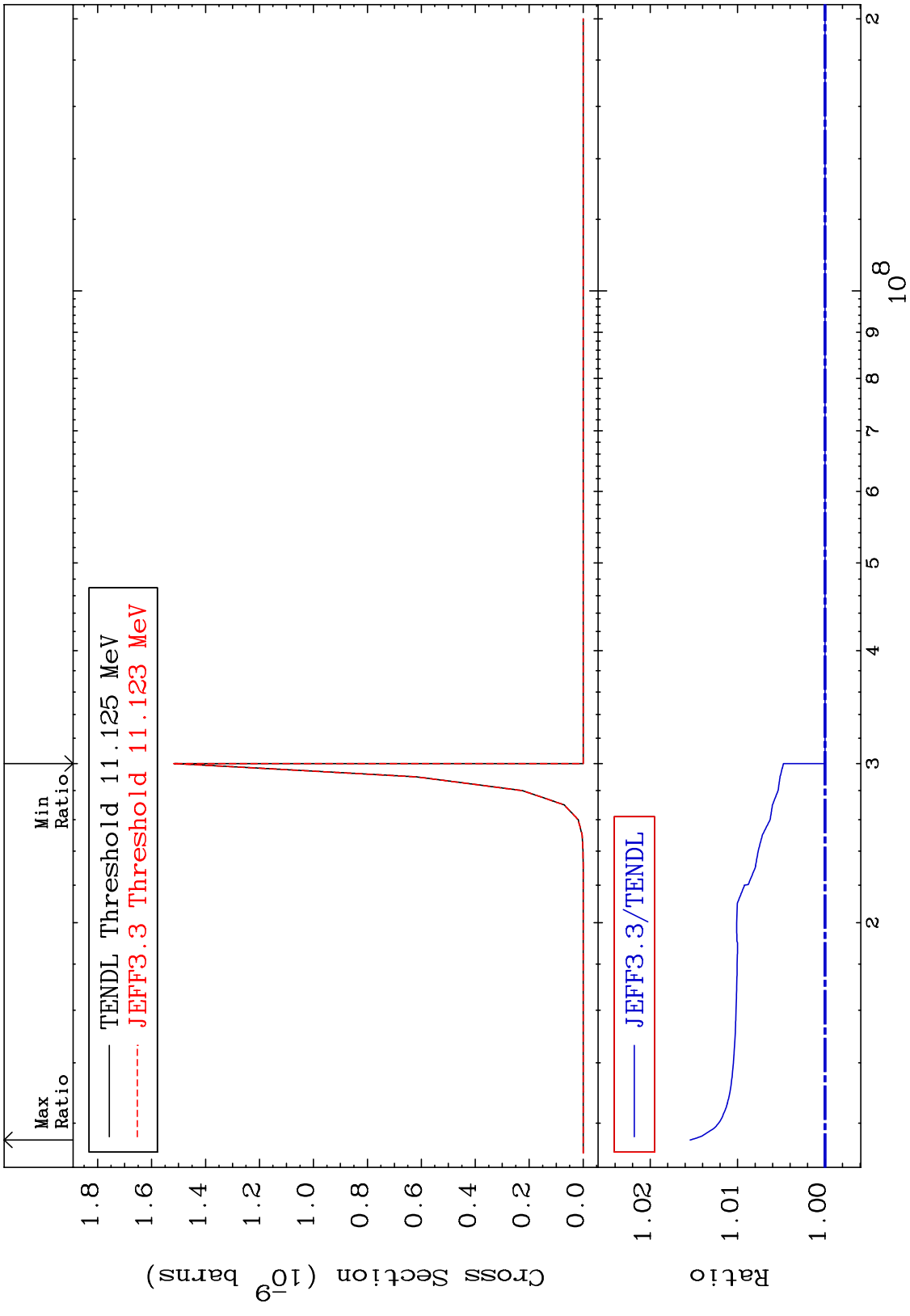
MAT 8034 (n,p) α 80-Hg-199
 Cross Section To 9999. %



MAT 8034 (n,p) d 80-Hg-199
 Cross Section 0.000 To 24.62 %



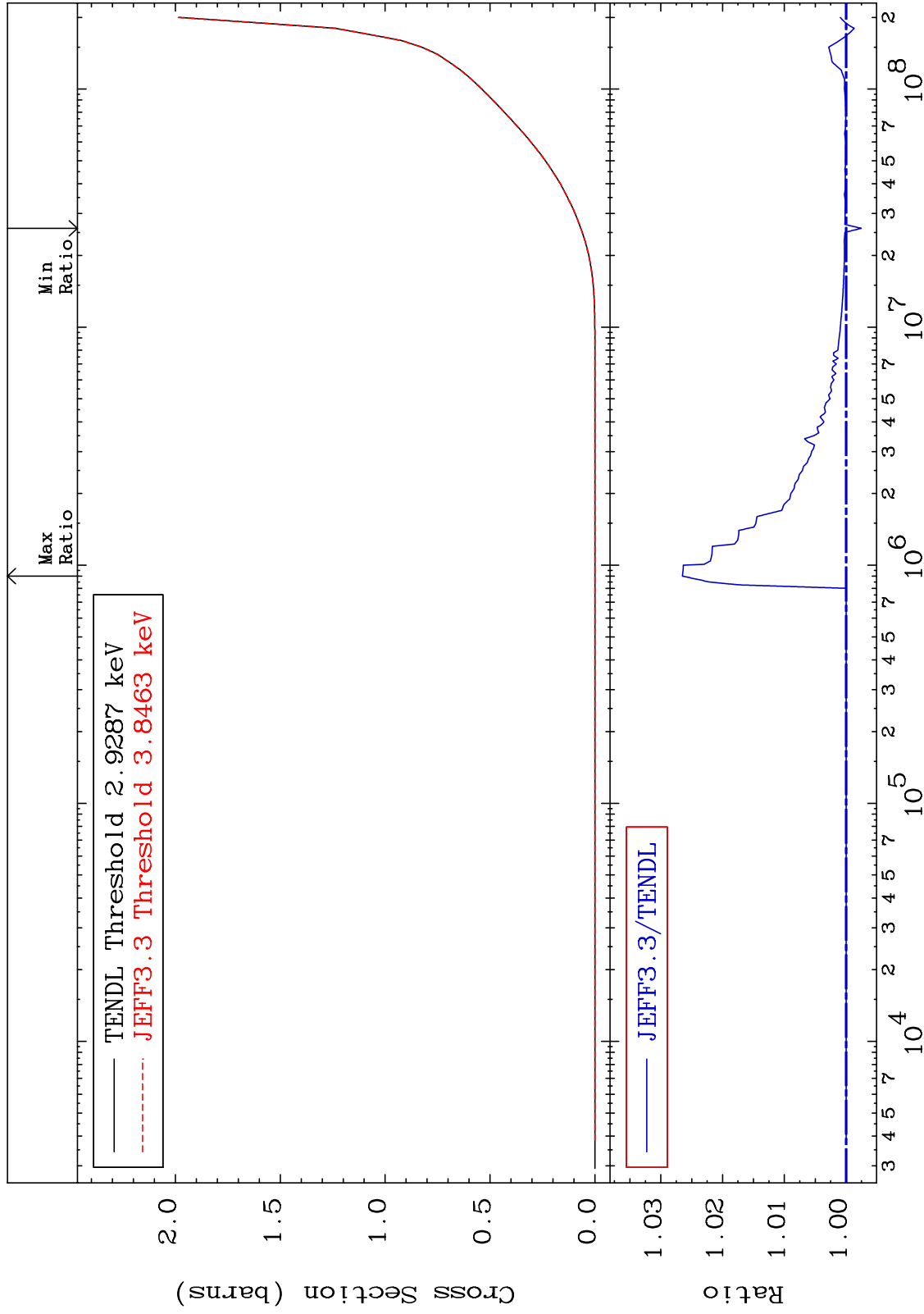
MAT 8034 (n,p) t 80-Hg-199
 Cross Section 0.000 To 1.542 %



MAT 8034

Hydrogen Production
Cross Section

80-Hg-199
-0.246 To 2.650 %



60

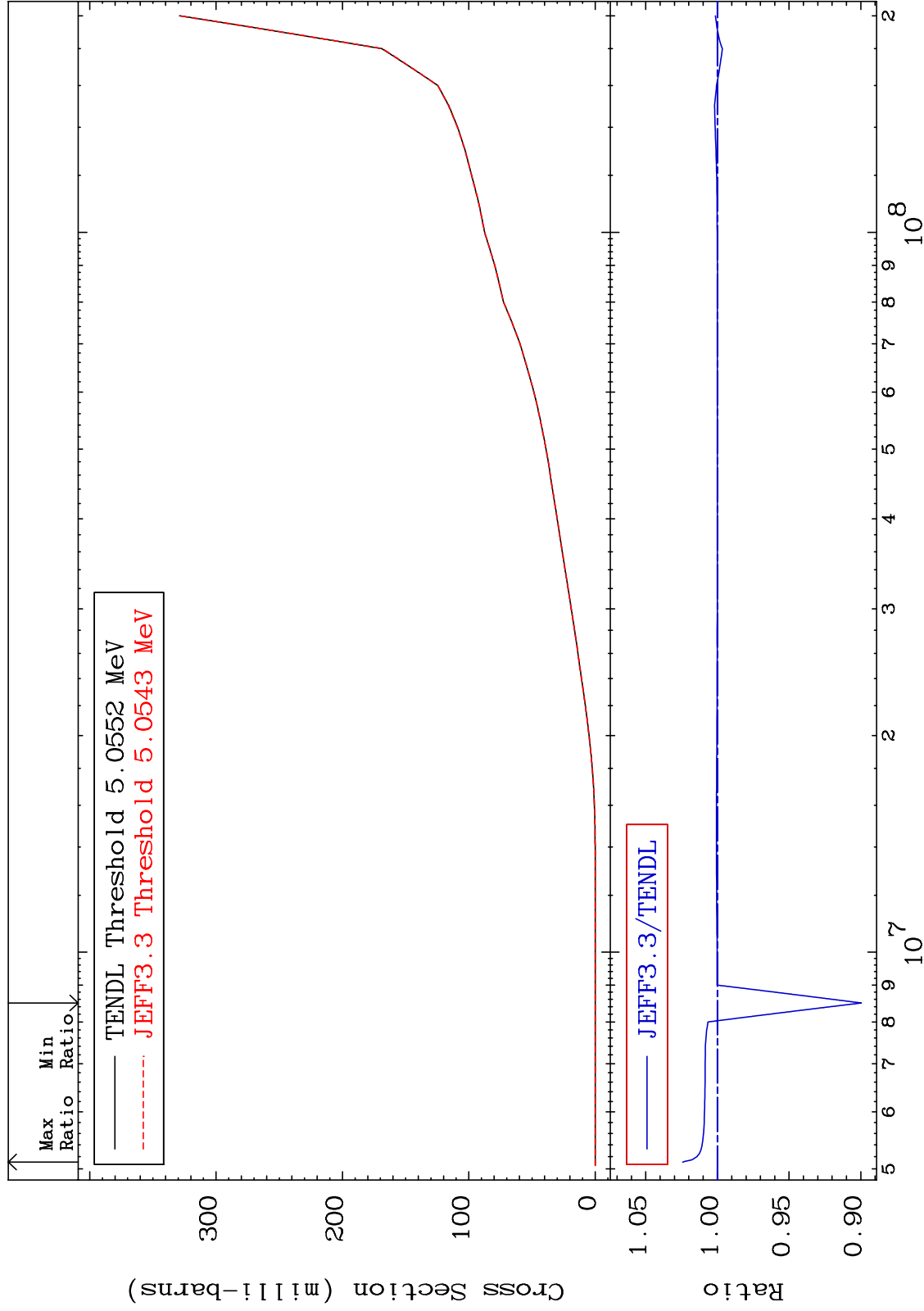
80-Hg-199

80-Hg-199

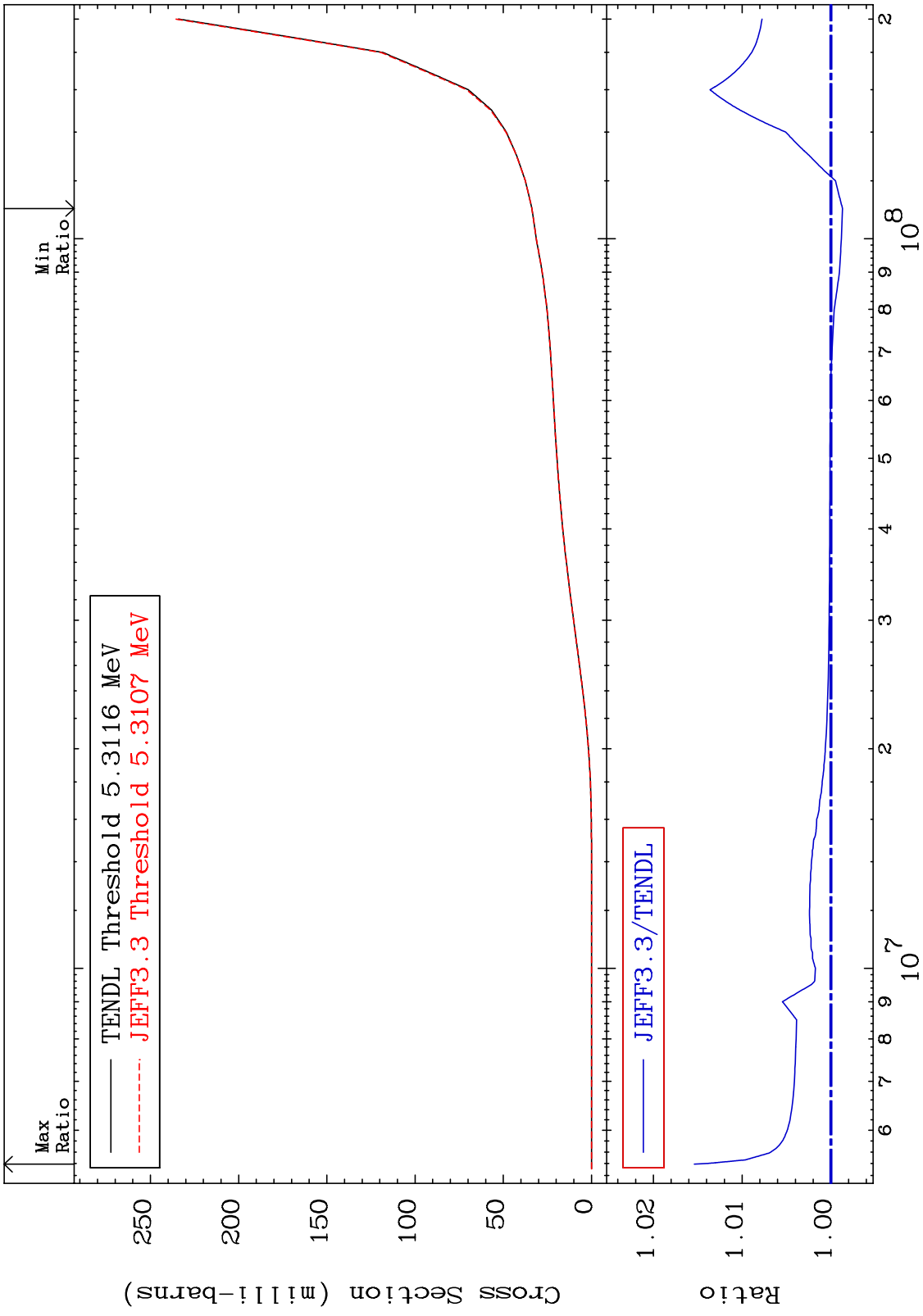
MAT 8034

Deuterium Production
Cross Section

80-Hg-199
-10.04 To 2.426 %



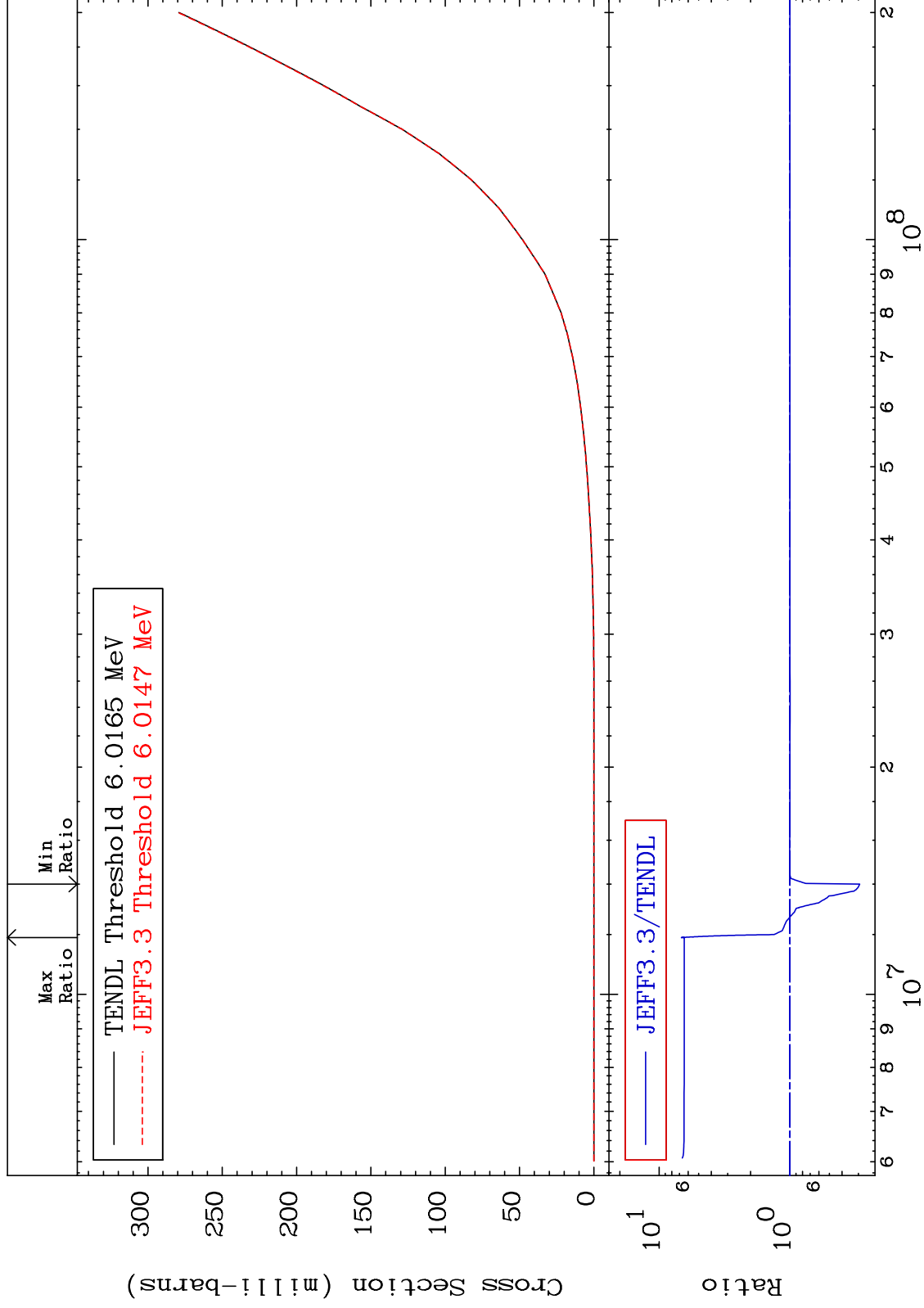
MAT 8034 Tritium Production Cross Section 80-Hg-199 -0.131 To 1.538 %



MAT 8034

He-3 Production
Cross Section

80-Hg-199
-70.76 To 578.2 %



63

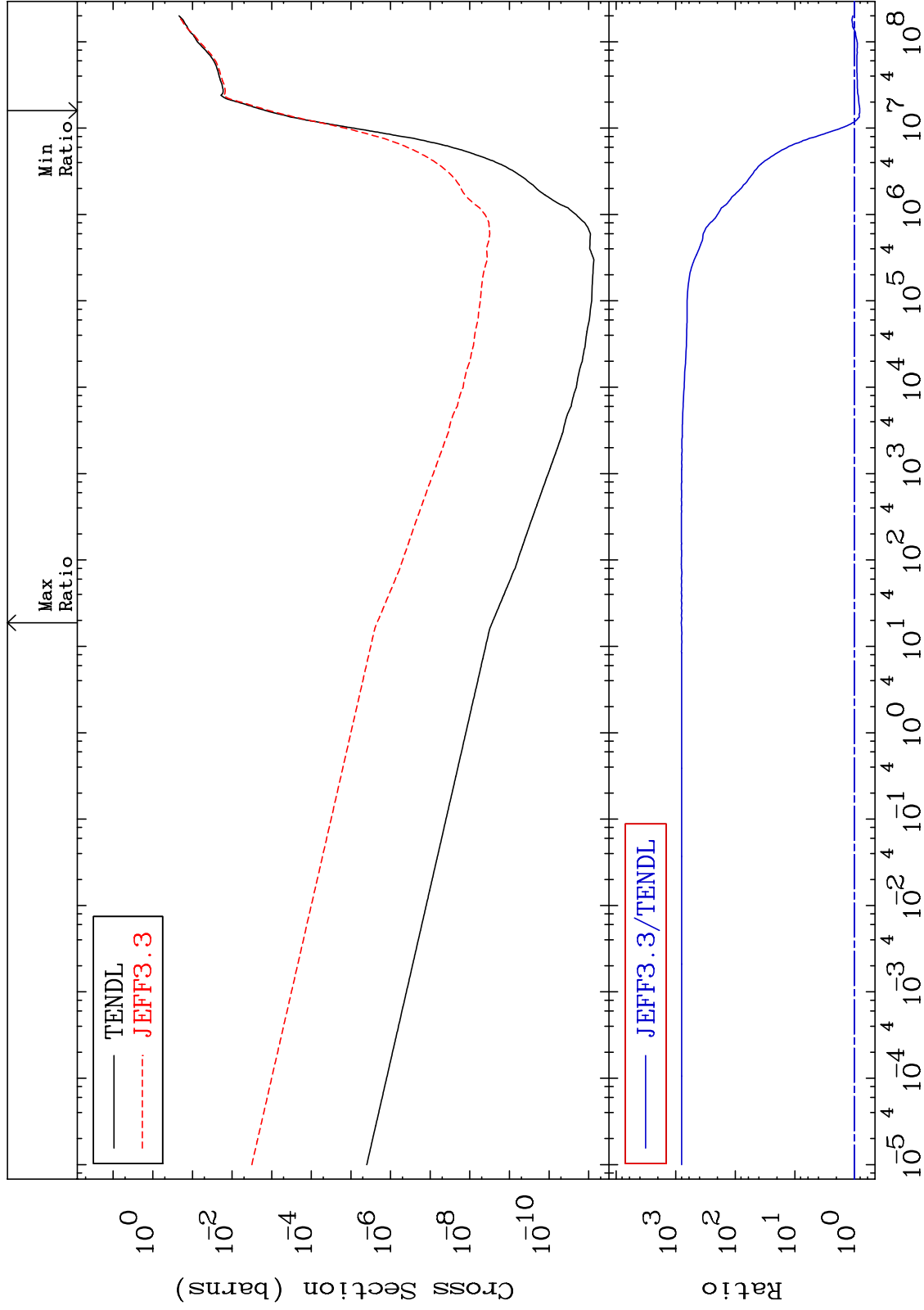
Incident Energy (eV)

80-Hg-199

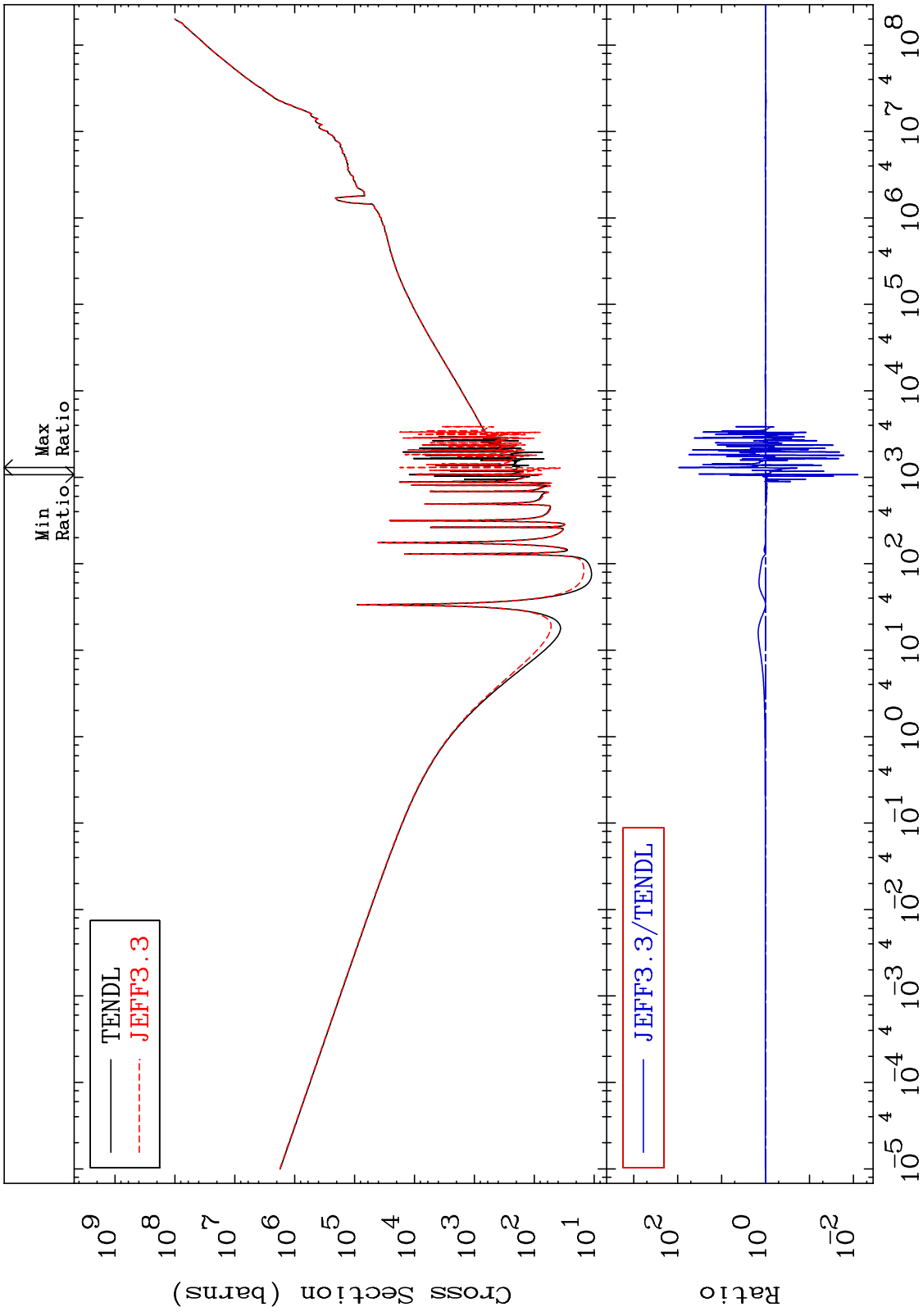
MAT 8034

He-4 Production
Cross Section

80-Hg-199
-18.92 To 9999. %



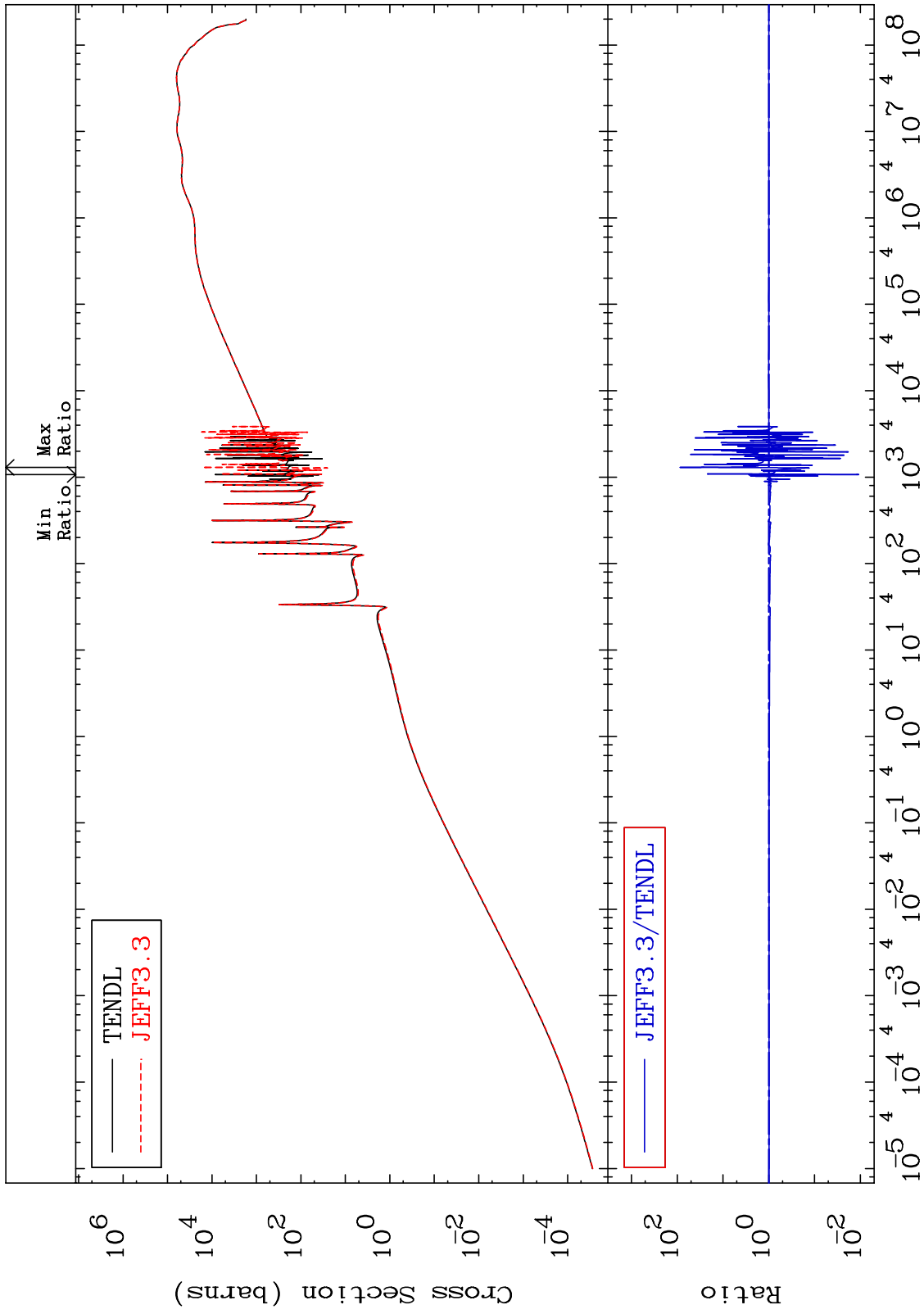
MAT 8034 Kerma total (eV-barns) 80-Hg-199
 Cross Section -99.21 To 9163. %



MAT 8034

Kerma elastic
Cross Section

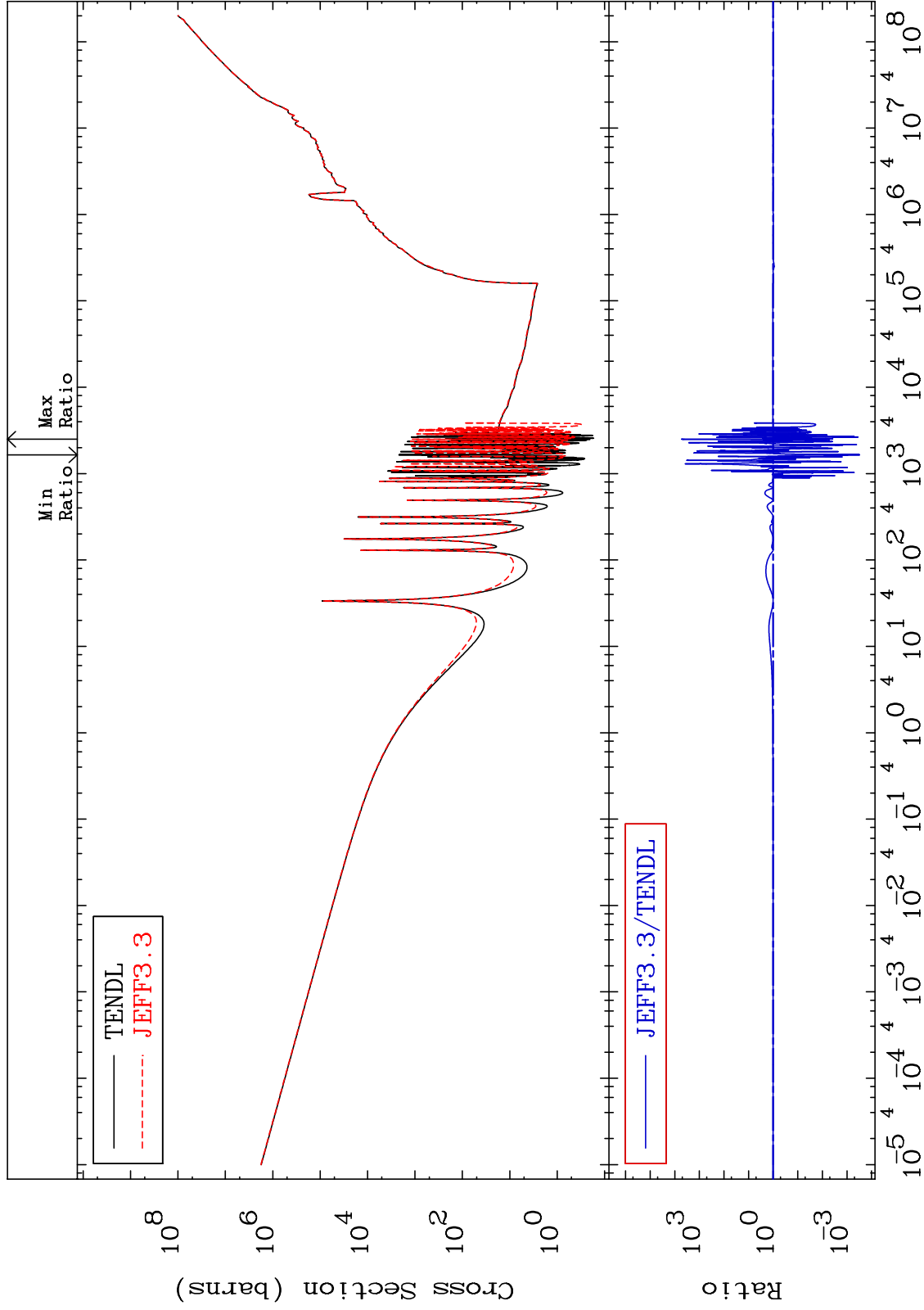
80-Hg-199
-98.92 To 8505. %



MAT 8034

Kerma non-elastic (all but mt2)
Cross Section

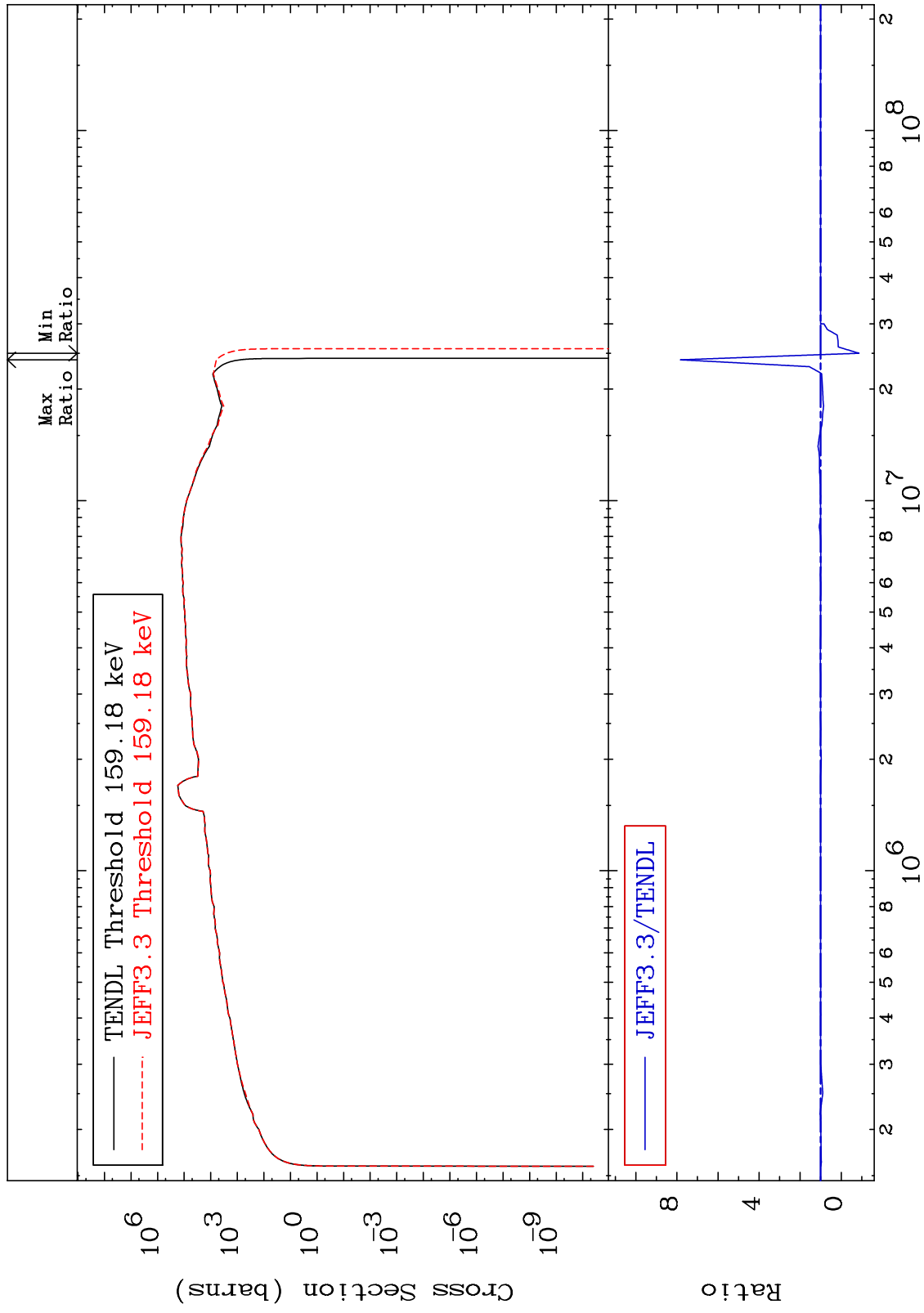
80-Hg-199
-99.97 To 9999. %



MAT 8034

Kerma inelastic (mt51-91)
Cross Section

80-Hg-199
-186.8 To 682.0 %



68

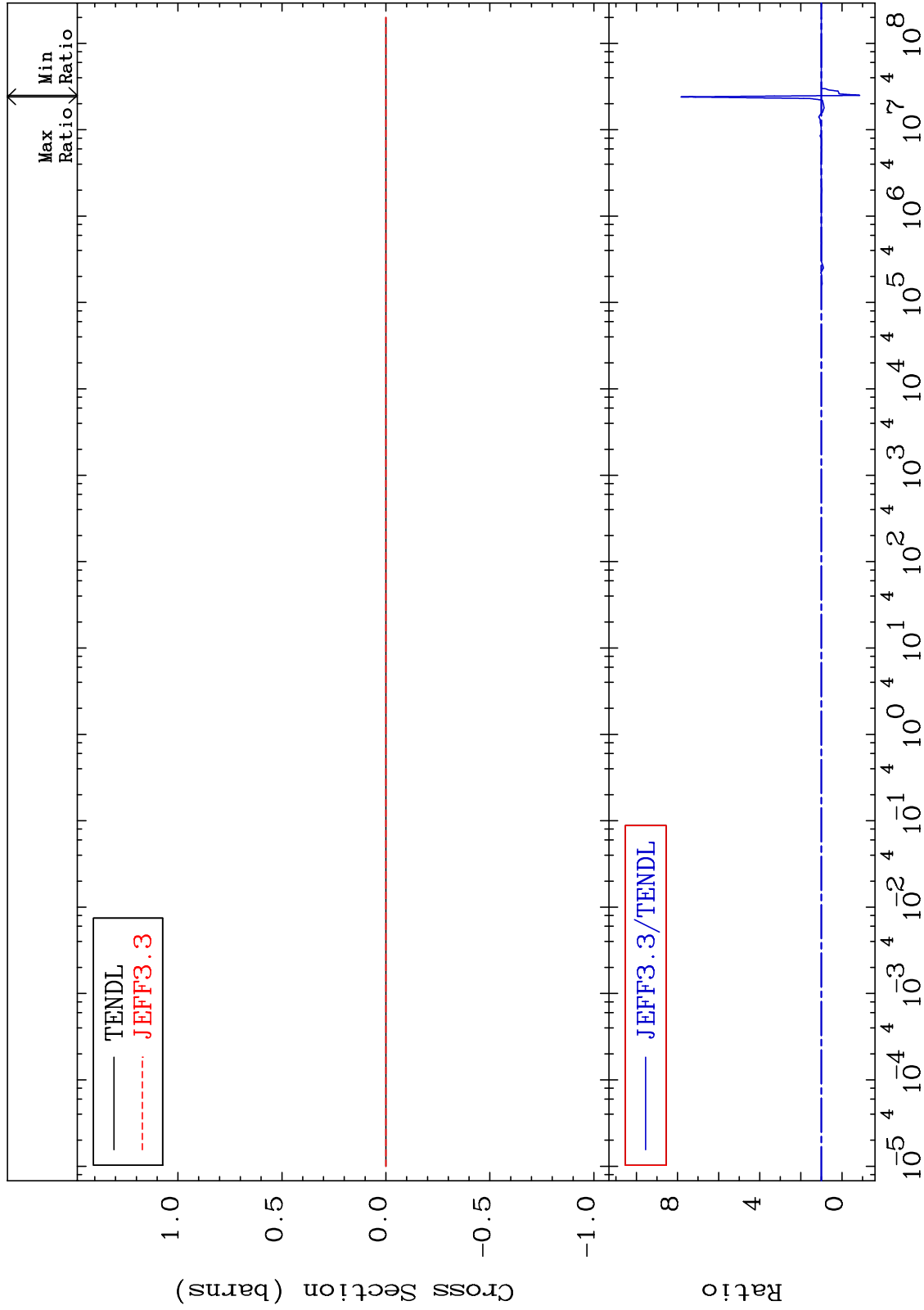
80-Hg-199

80-Hg-199

MAT 8034

Kerma fission (mt18 or mt19-20-21-38)
Cross Section

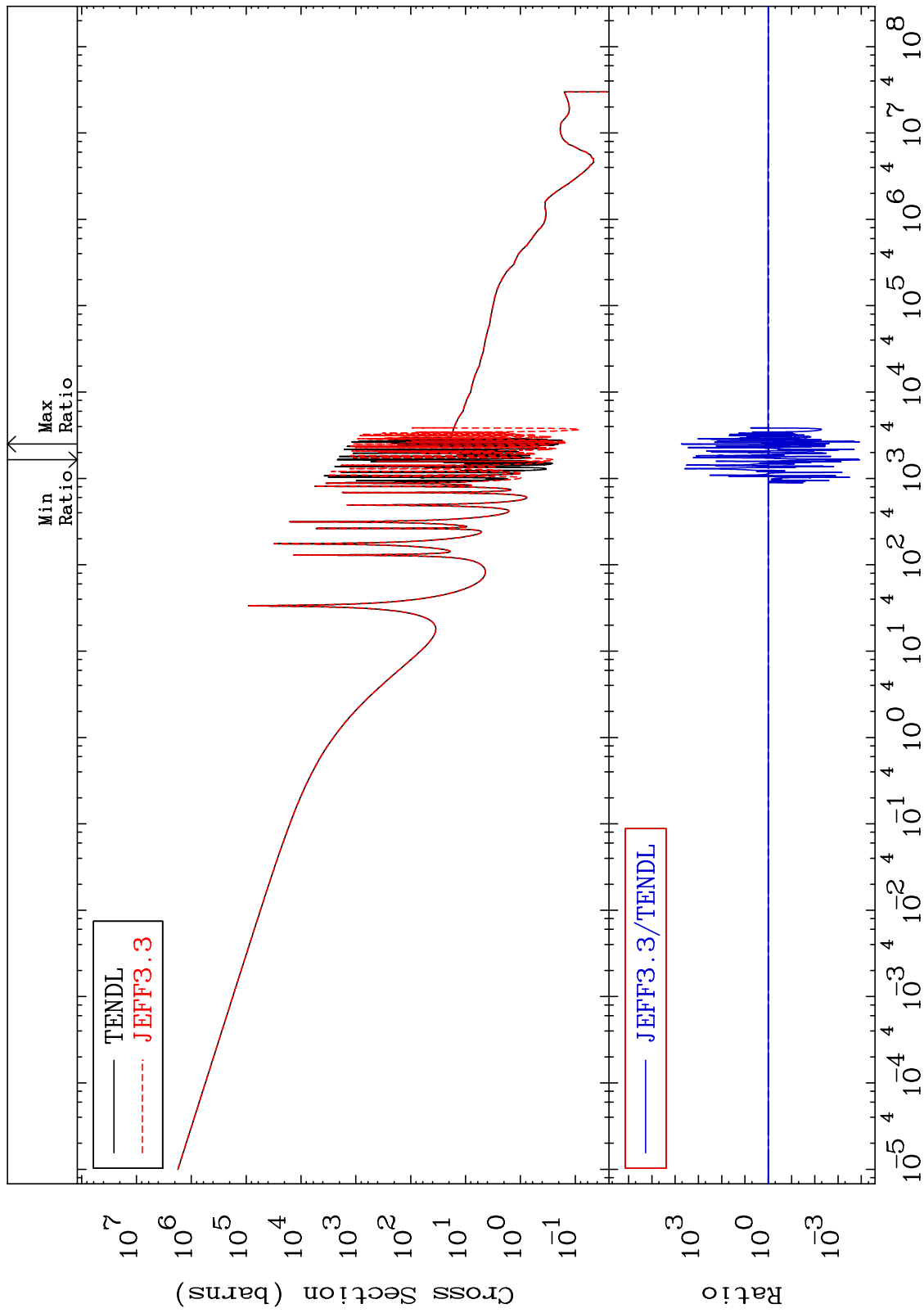
80-Hg-199
-186.8 To 682.0 %



MAT 8034

Kerma capture (mt102)
Cross Section

80-Hg-199
-99.99 To 9999. %



70

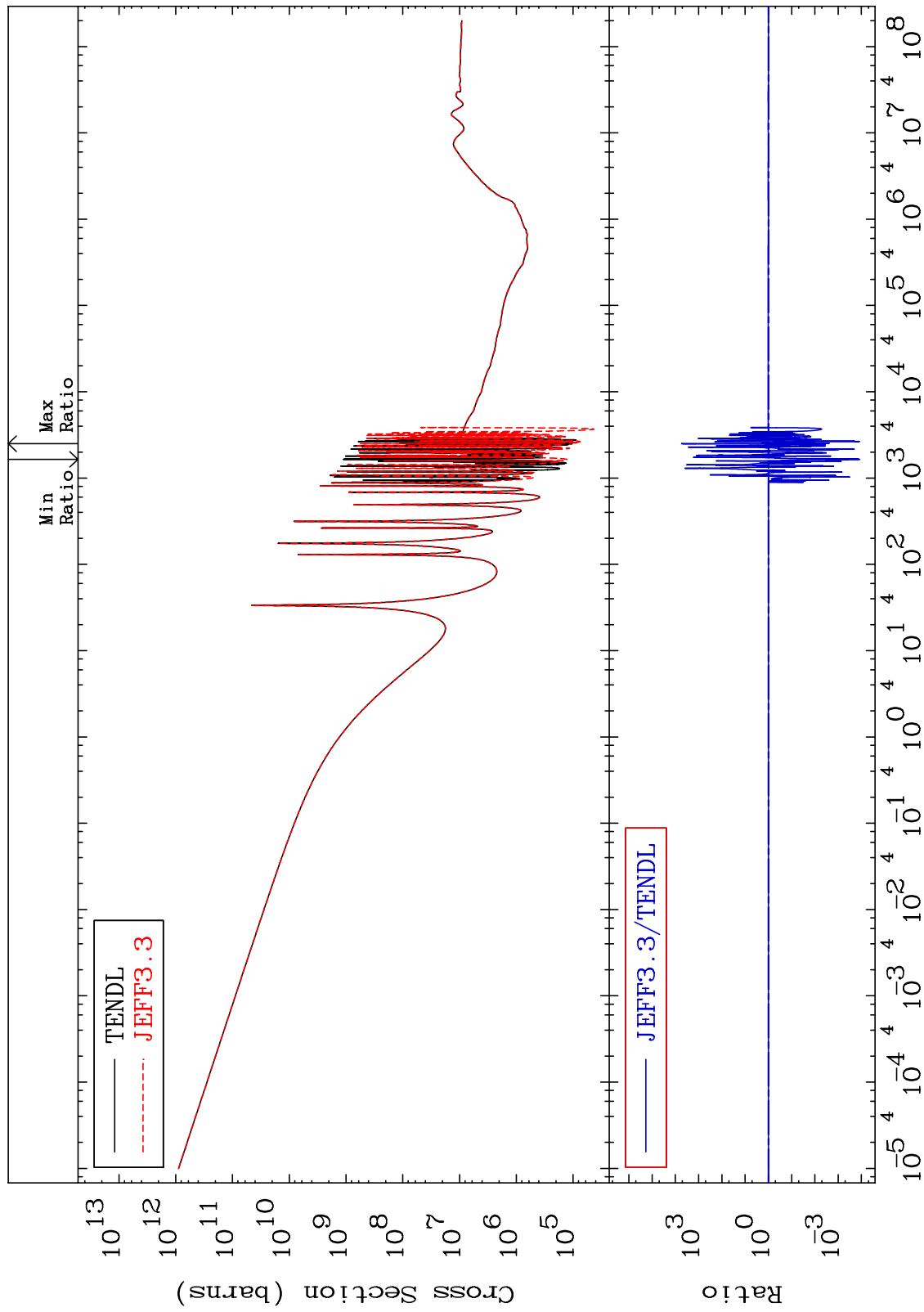
Incident Energy (eV)

80-Hg-199

MAT 8034

Total photon (eV-barns)
Cross Section

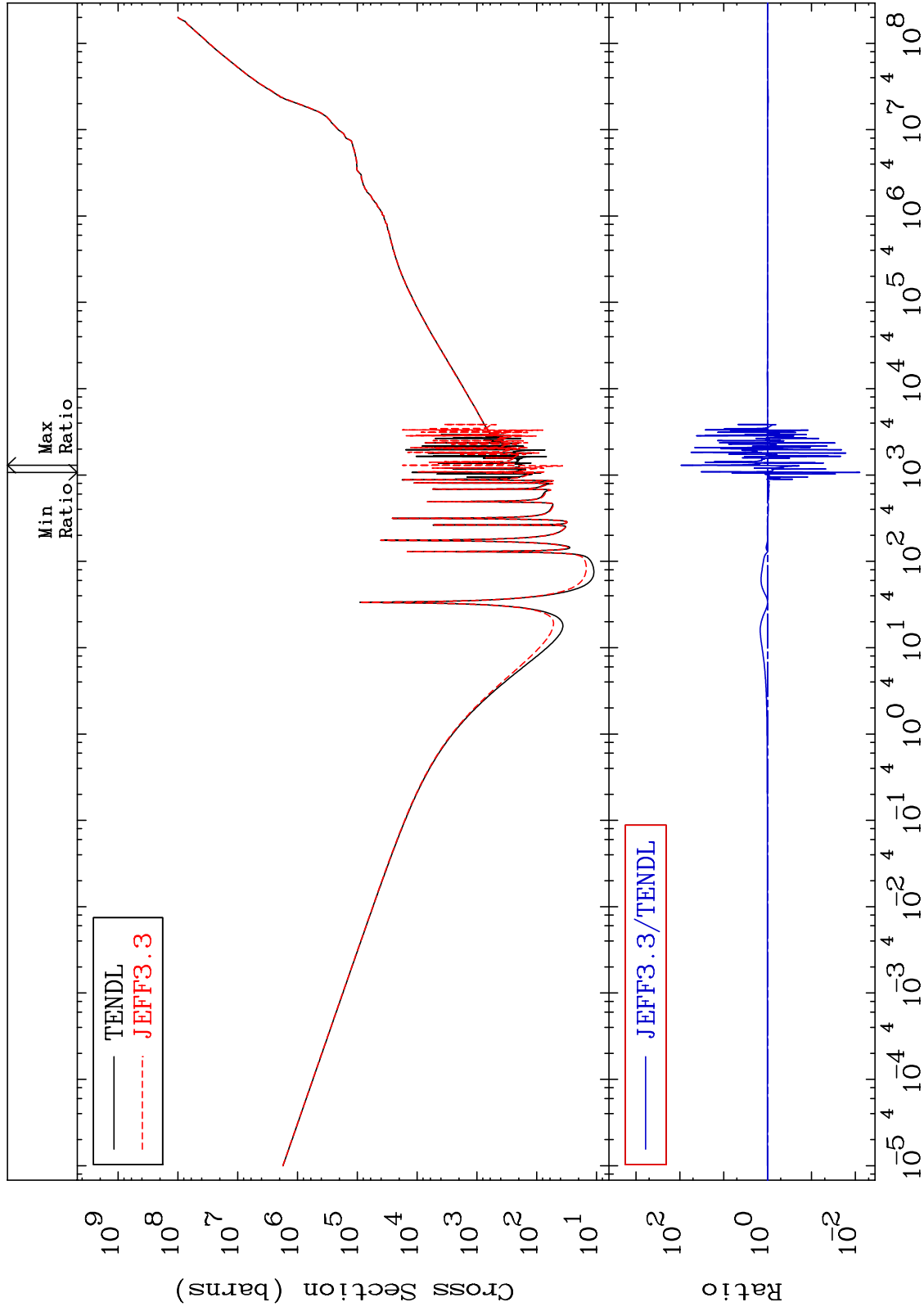
80-Hg-199
-99.99 To 9999. %



MAT 8034

Total kinematic kerma (high limit)
Cross Section

80-Hg-199
-99.21 To 9163. %



72

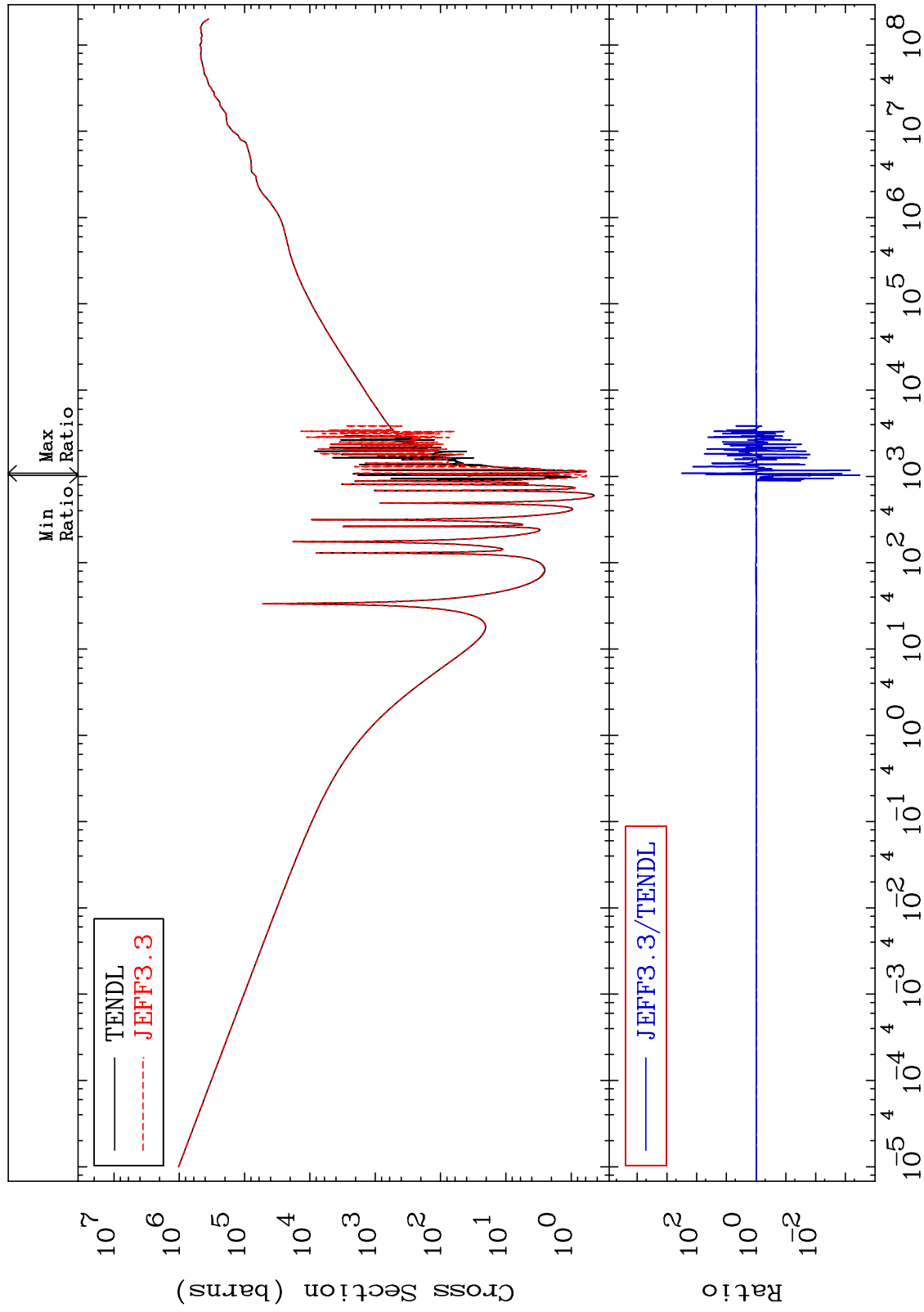
Incident Energy (eV)

80-Hg-199

MAT 8034

Dpa total (eV-barns)
Cross Section

80-Hg-199
-99.97 To 9999. %

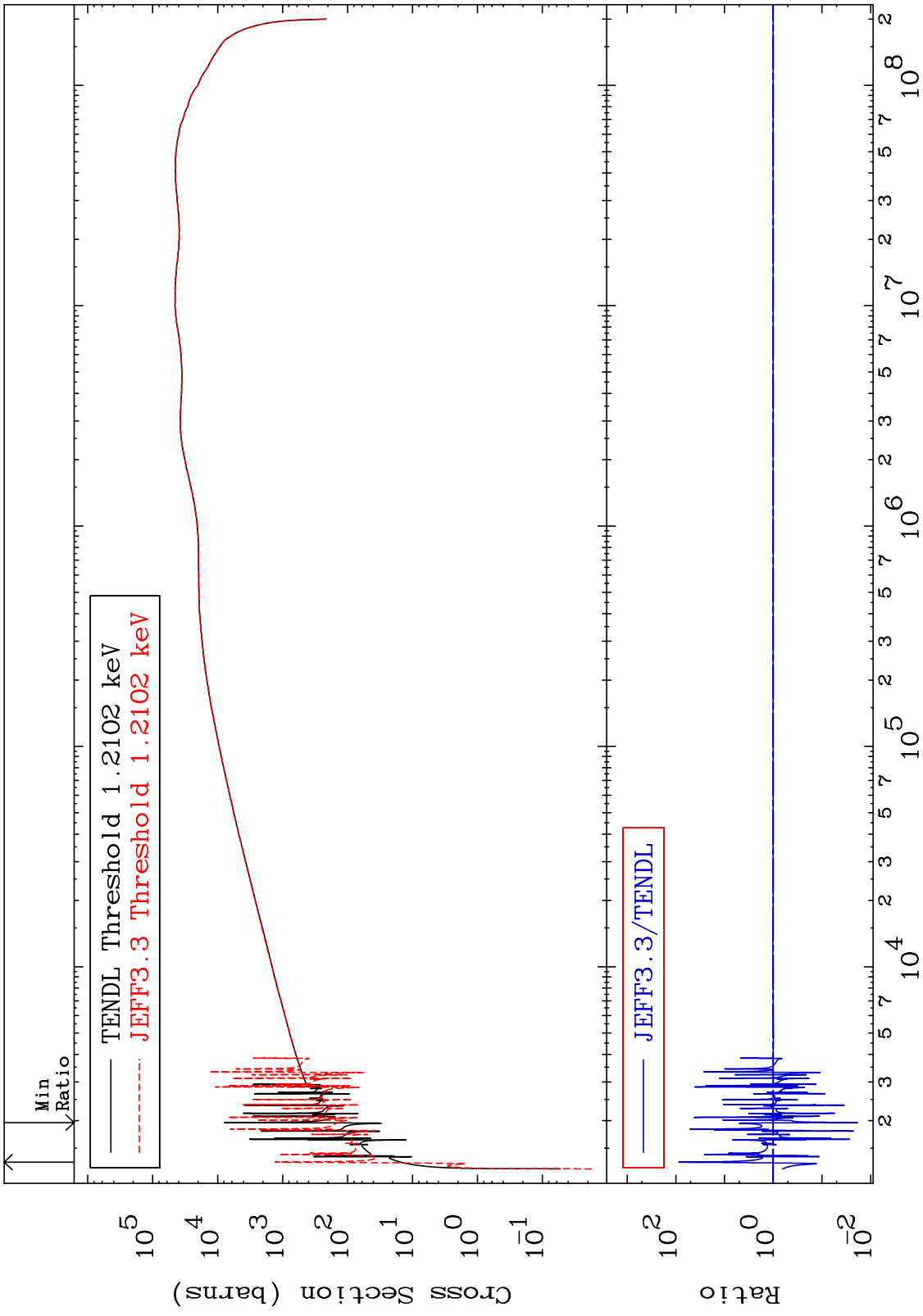


73

Incident Energy (eV)

80-Hg-199

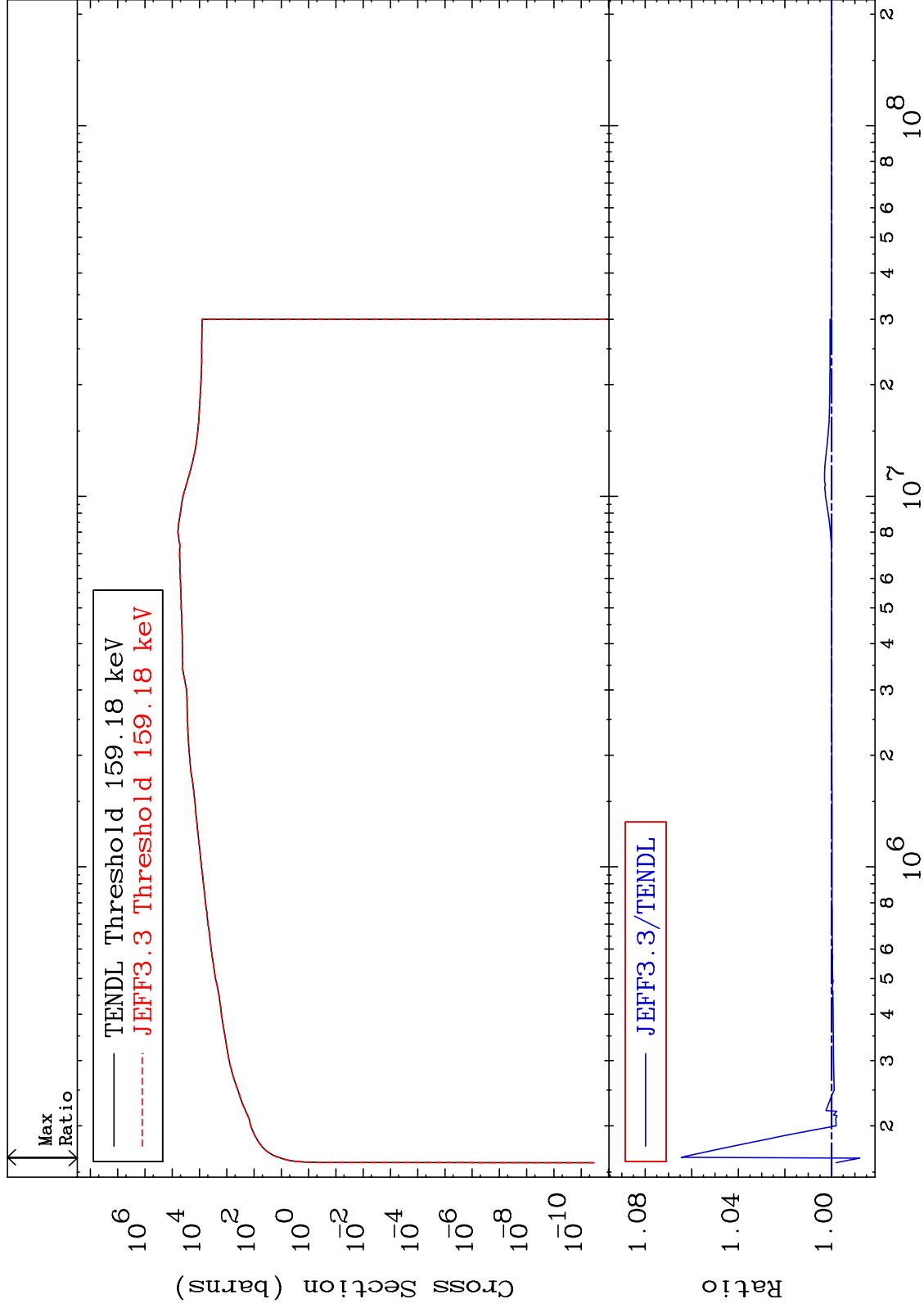
MAT 8034 Dpa elastic (mt2) 80-Hg-199
 Cross Section -98.17 To 8505. %



MAT 8034

Dpa inelastic (mt51-91)
Cross Section

80-Hg-199
-1.211 To 6.449 %



75

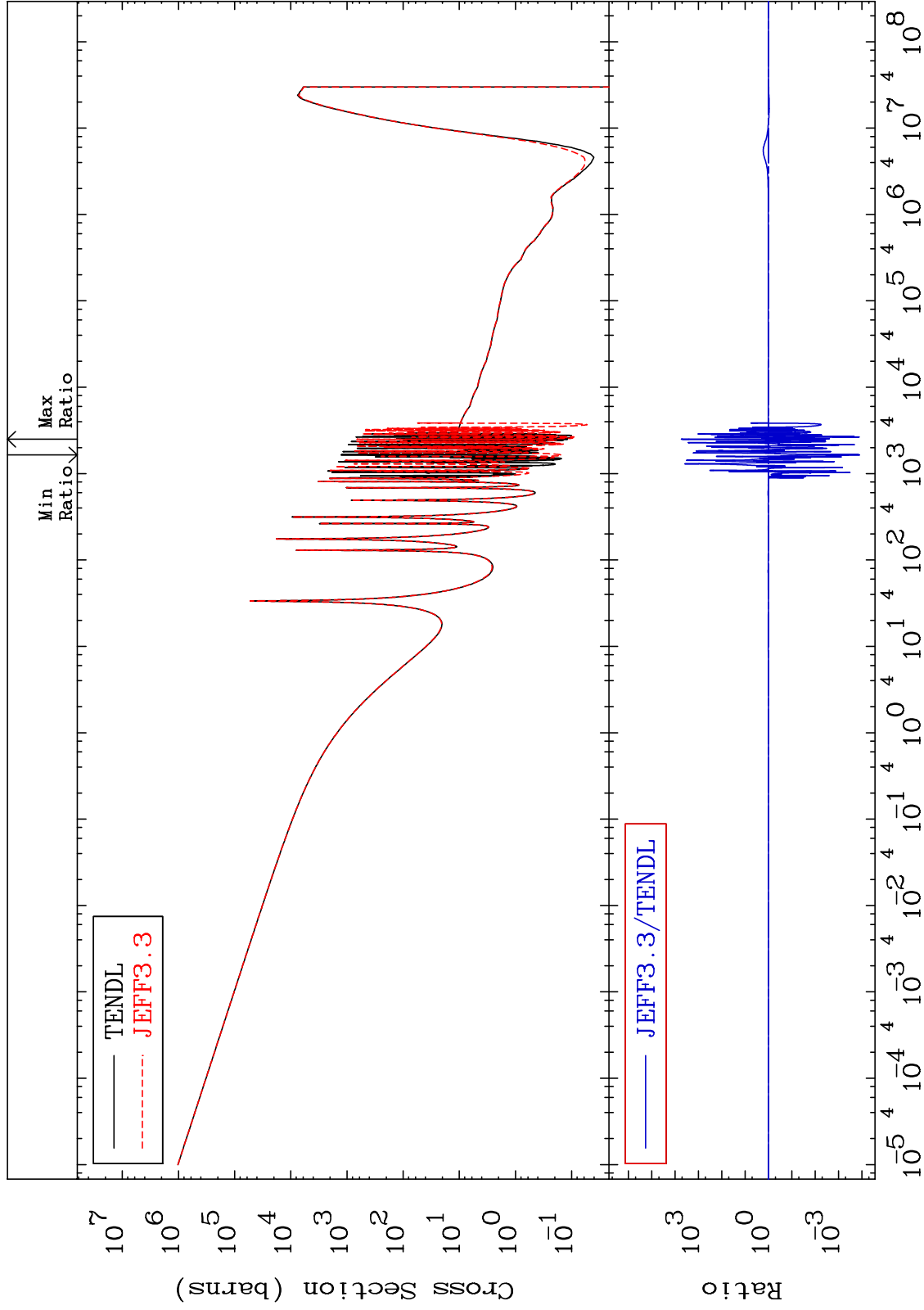
Incident Energy (eV)

80-Hg-199

MAT 8034

Dpa disappearance (mt102 -120)
Cross Section

80-Hg-199
-99.99 To 9999. %



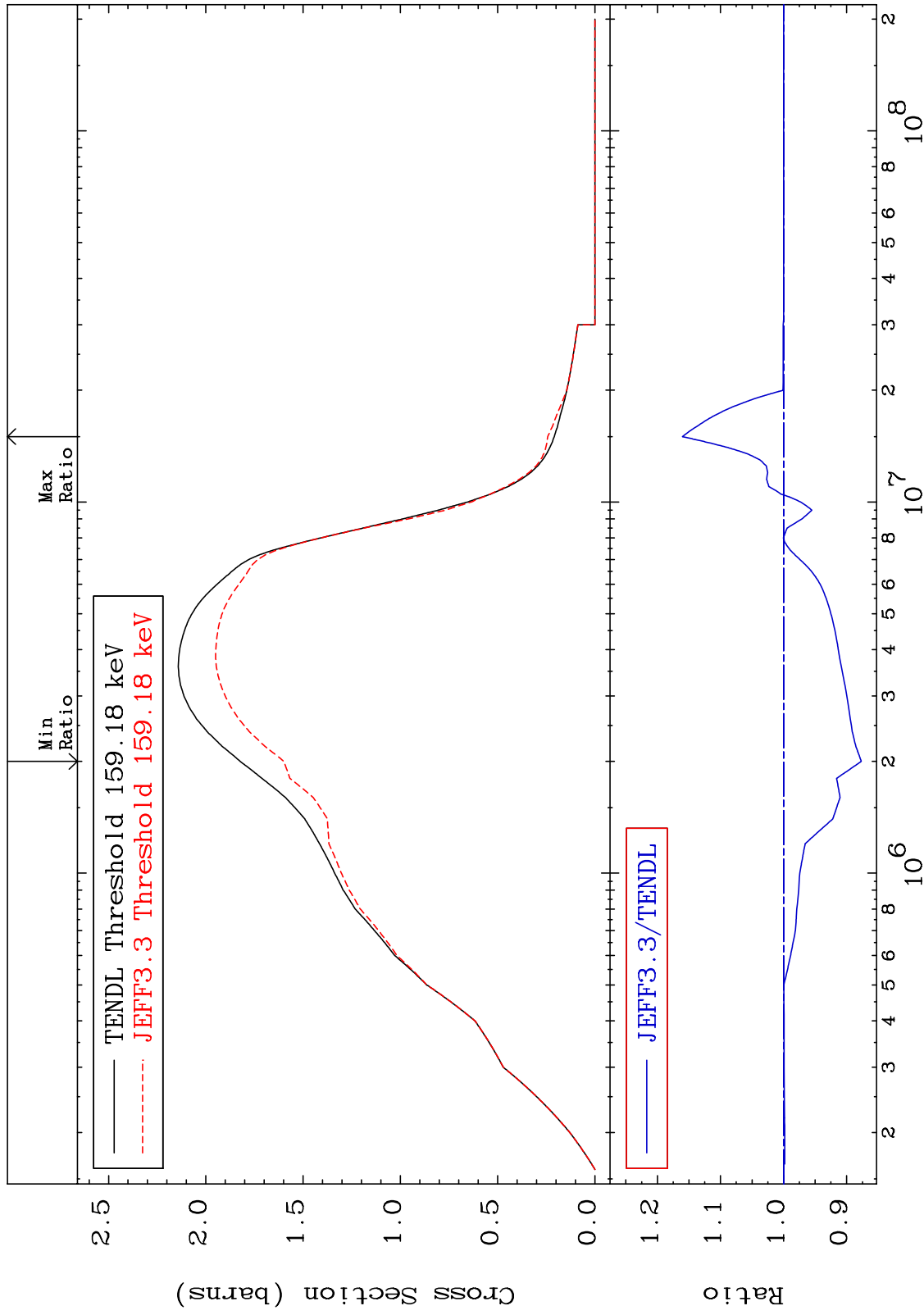
76

Incident Energy (eV)

80-Hg-199

MAT 8034

Inelastic:80-Hg-199g 80-Hg-199
Radionuclide Production Cross Section -12.32 To 16.03 %

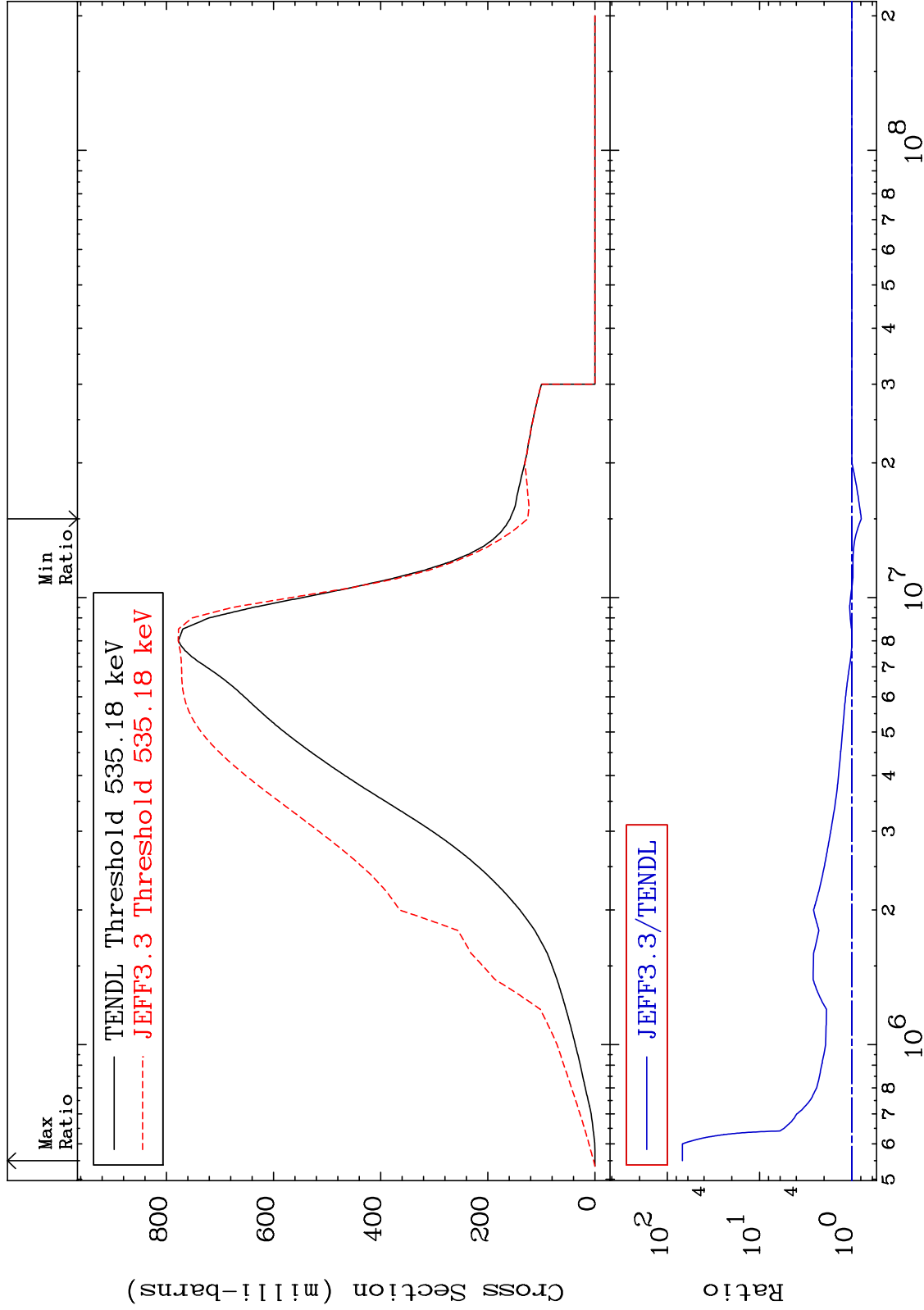


MAT 8034

Inelastic:80-Hg-199m7

80-Hg-199

Radionuclide Production Cross Section -20.80 To 6768. %



78

Incident Energy (eV)

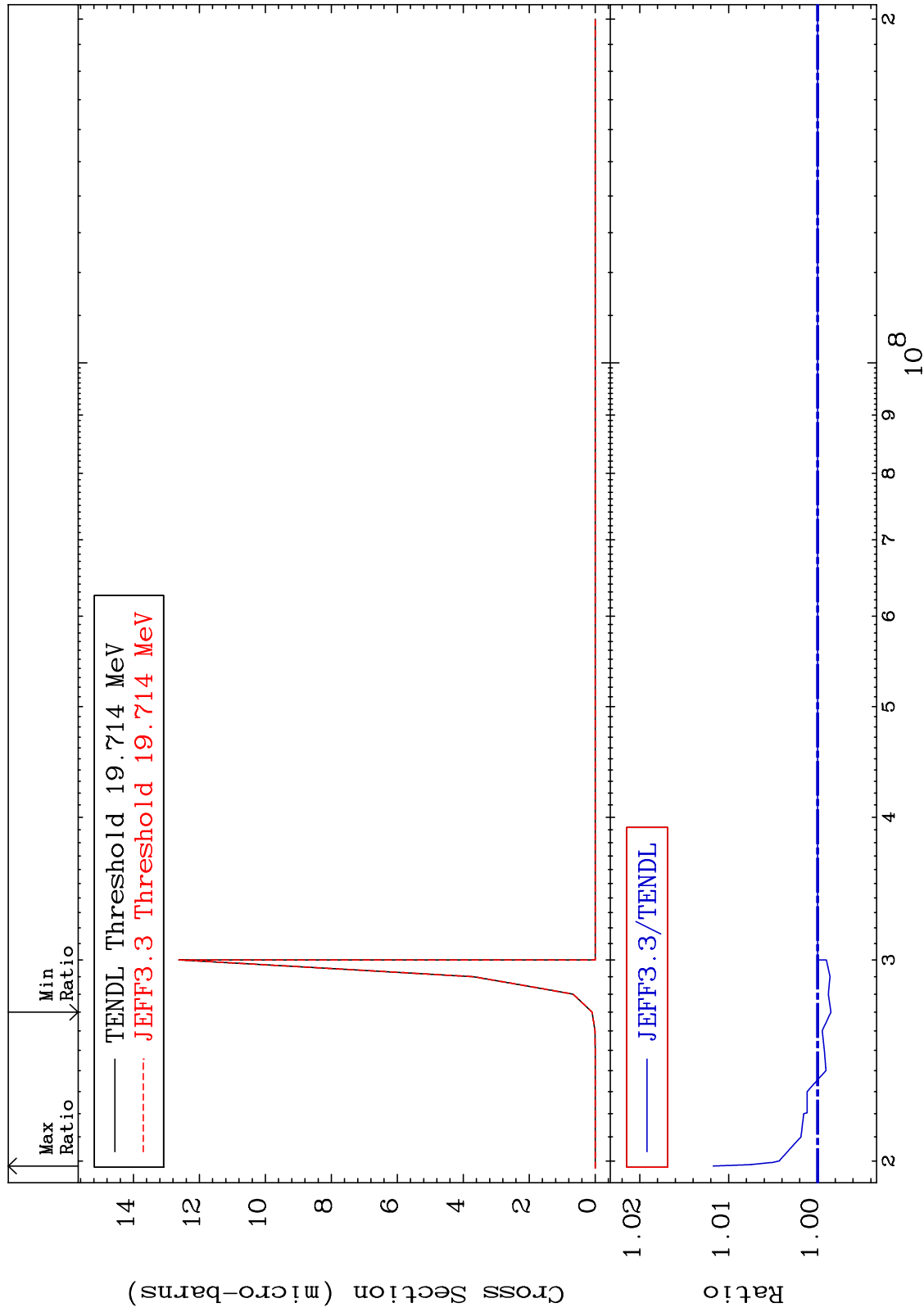
80-Hg-199

MAT 8034

(n,2n) d:79-Au-196g

80-Hg-199

Radionuclide Production Cross Section -0.150 To 1.175 %



79

Incident Energy (eV)

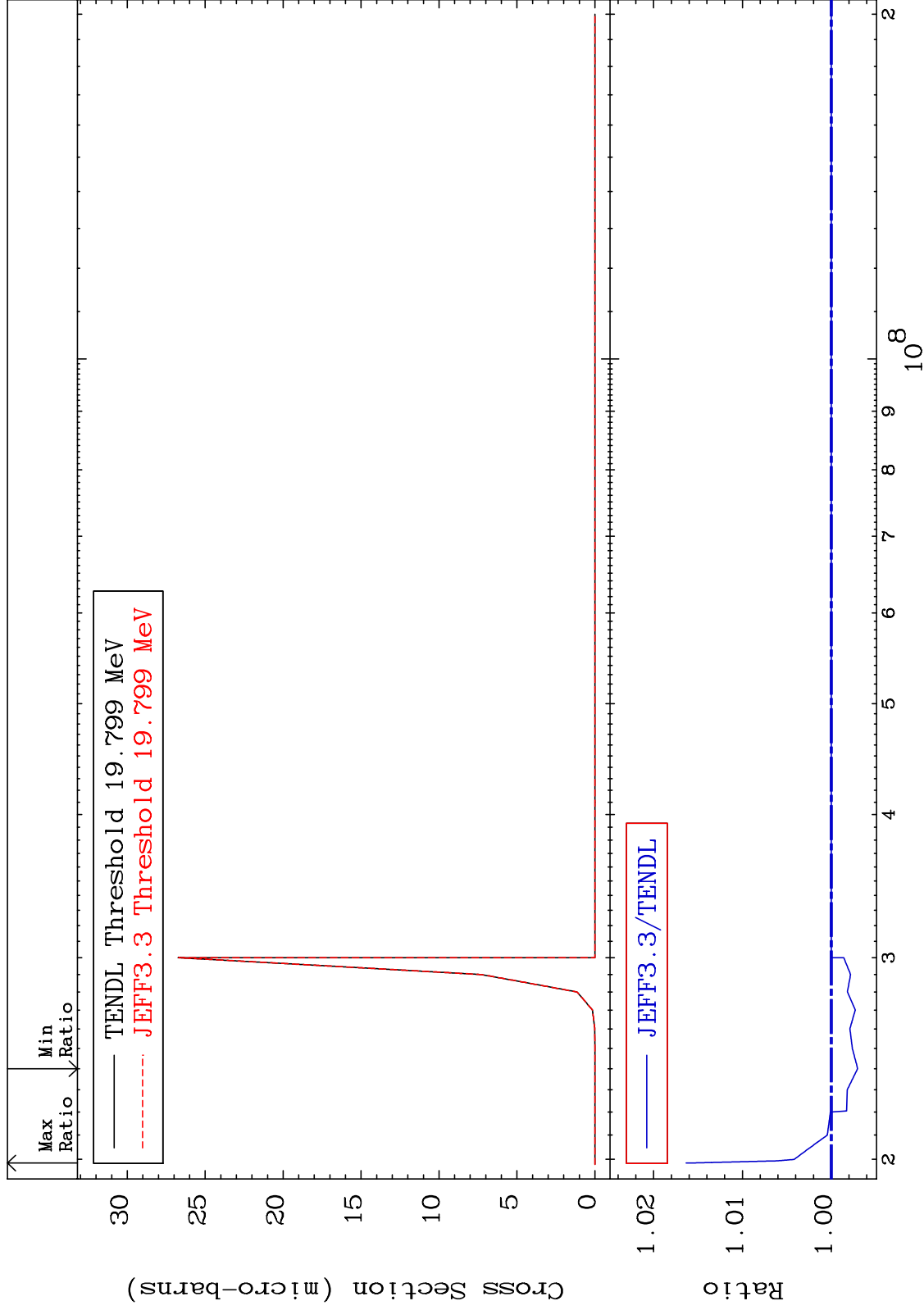
80-Hg-199

MAT 8034

(n,2n) d:79-Au-196m3

80-Hg-199

Radionuclide Production Cross Section -0.297 To 1.634 %



80

Incident Energy (eV)

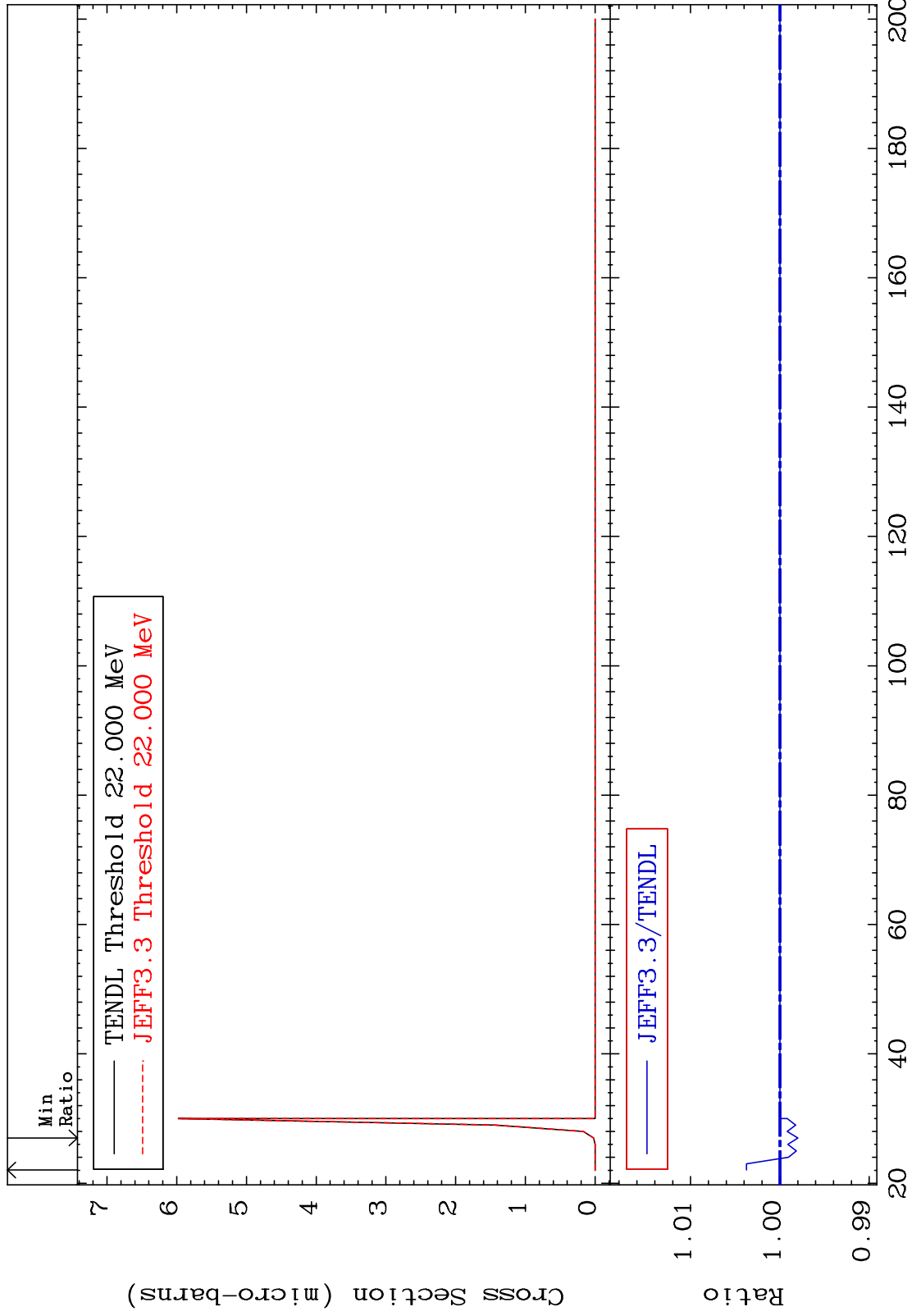
80-Hg-199

MAT 8034

(n,2n) d:79-Au-196m10

80-Hg-199

Radionuclide Production Cross Section -0.201 To 0.375 %



81

Incident Energy (MeV)

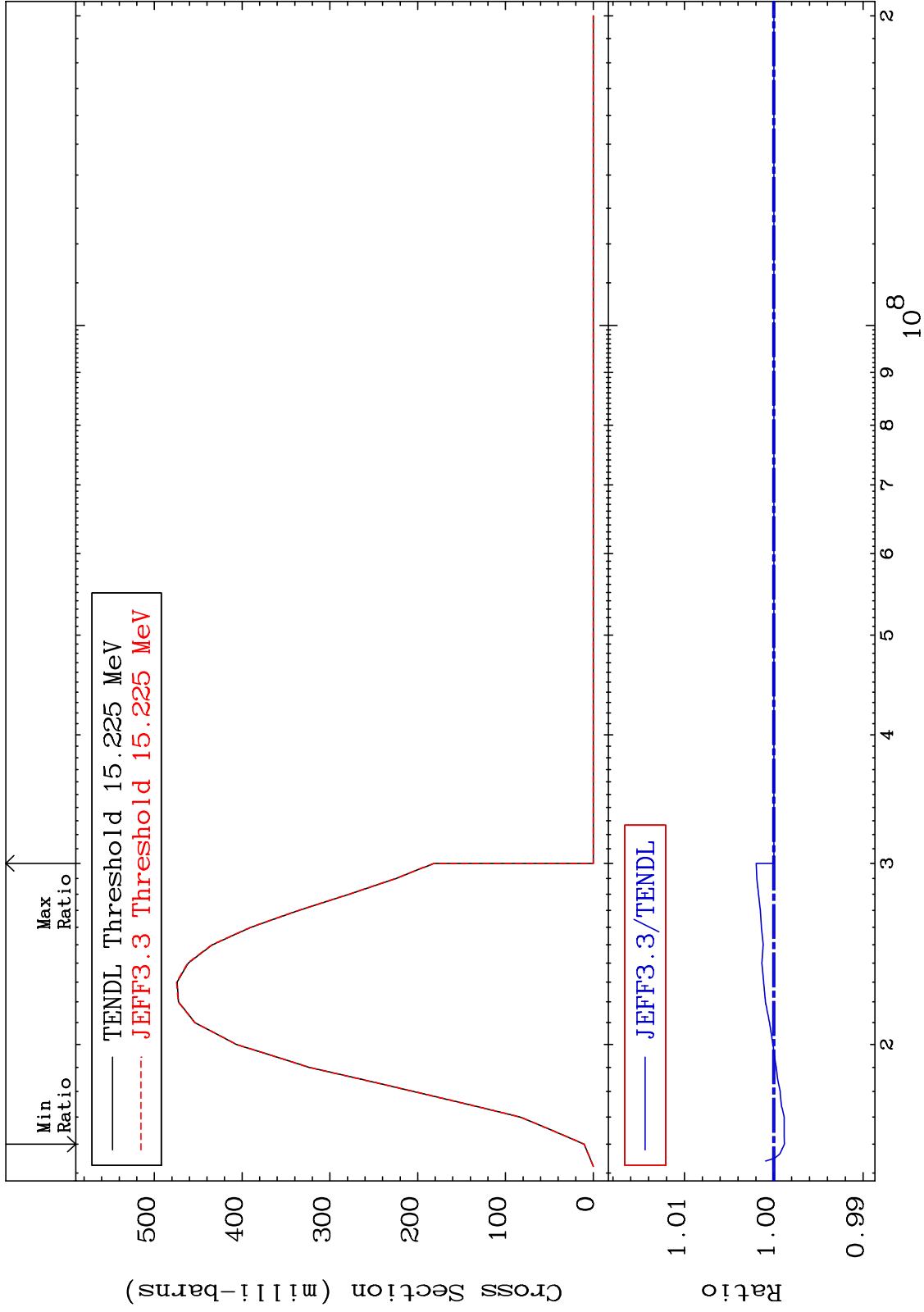
80-Hg-199

MAT 8034

(n,3n):80-Hg-197g

80-Hg-199

Radionuclide Production Cross Section -0.118 To 0.198 %



82

Incident Energy (eV)

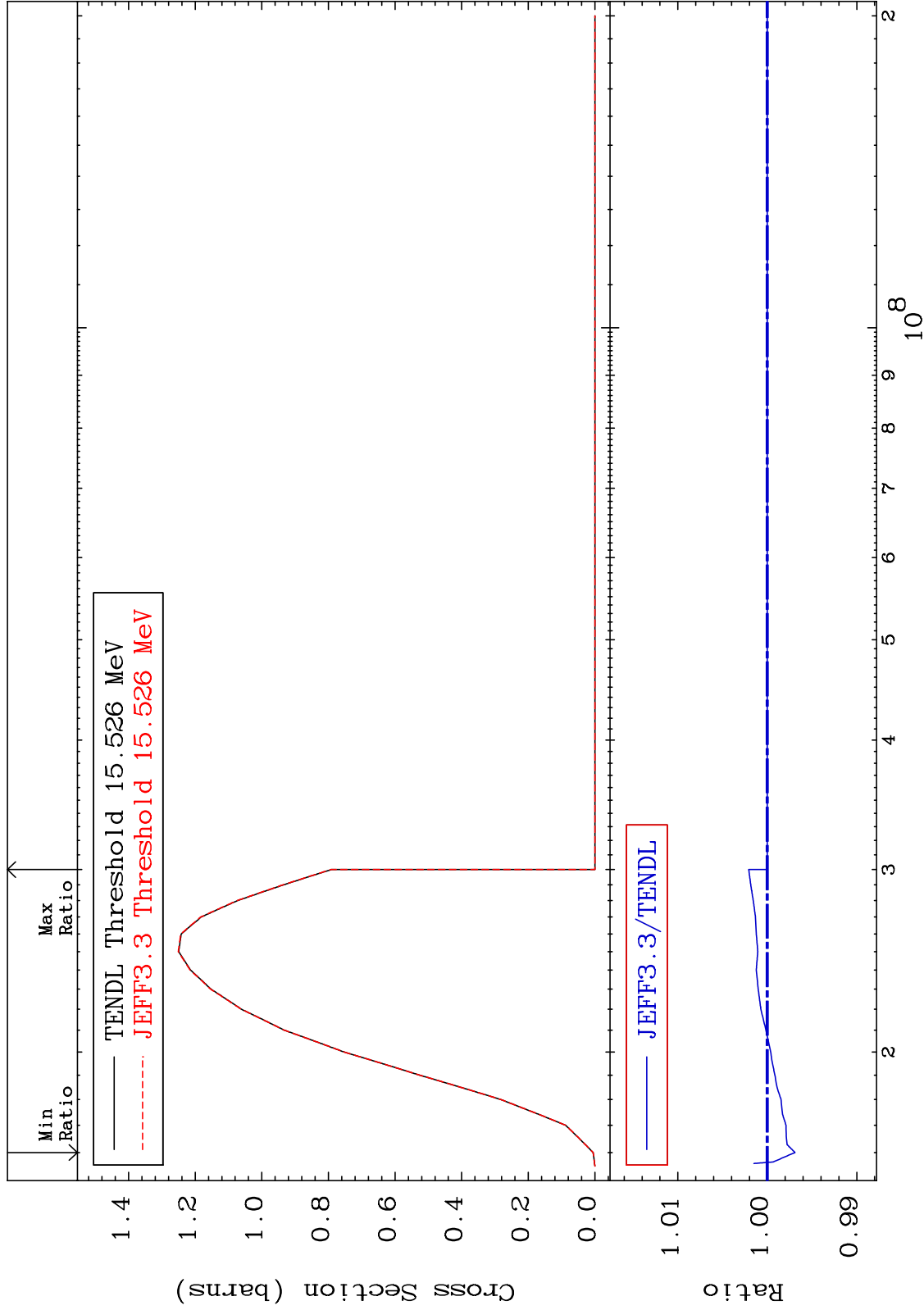
80-Hg-199

MAT 8034

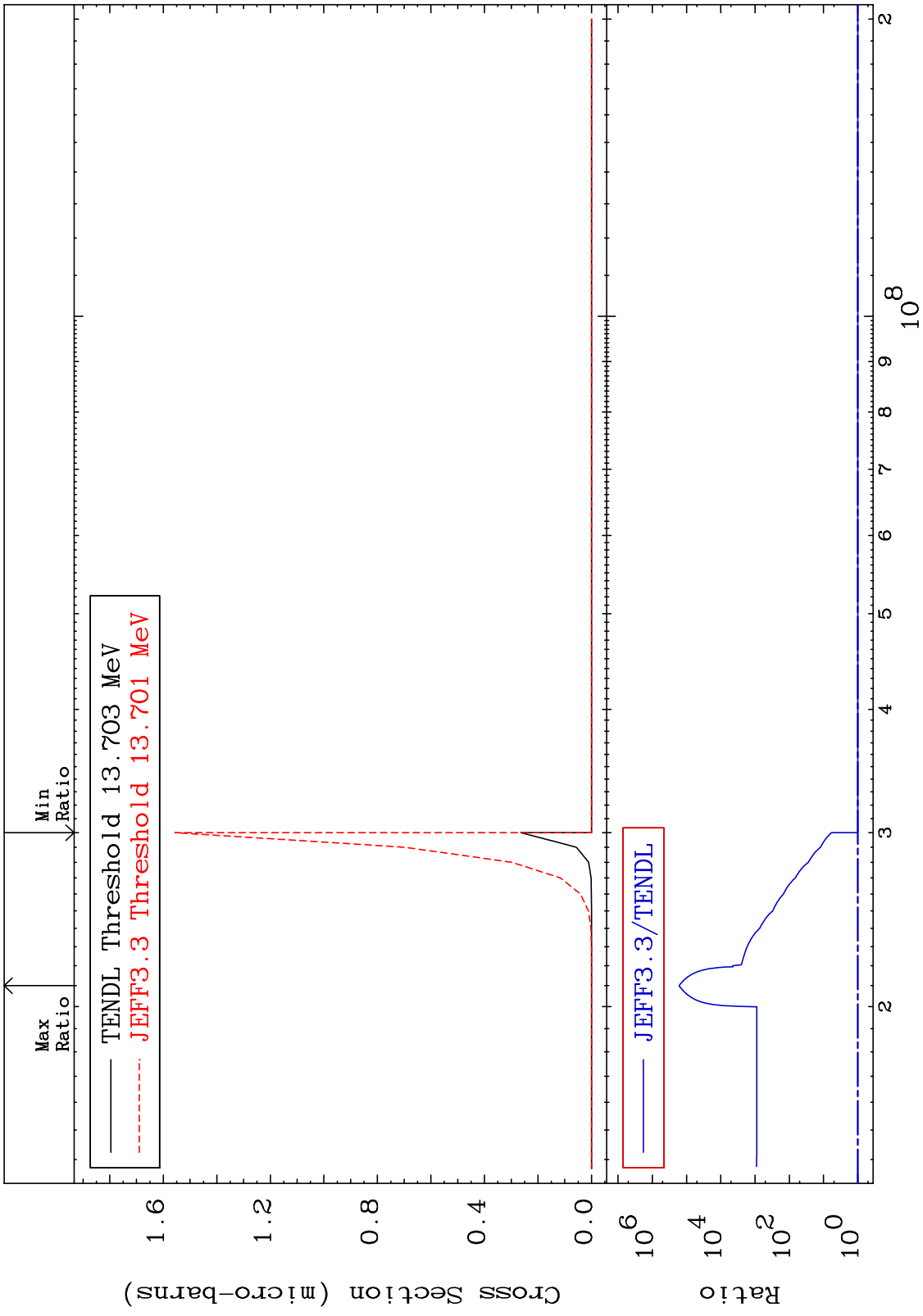
(n, 3n) : 80-Hg-197m4

80-Hg-199

Radionuclide Production Cross Section -0.310 To 0.208 %



MAT 8034 (n,3n) α : 78-Pt-193g 80-Hg-199
 Radionuclide Production Cross Section 0.000 To 9999. %

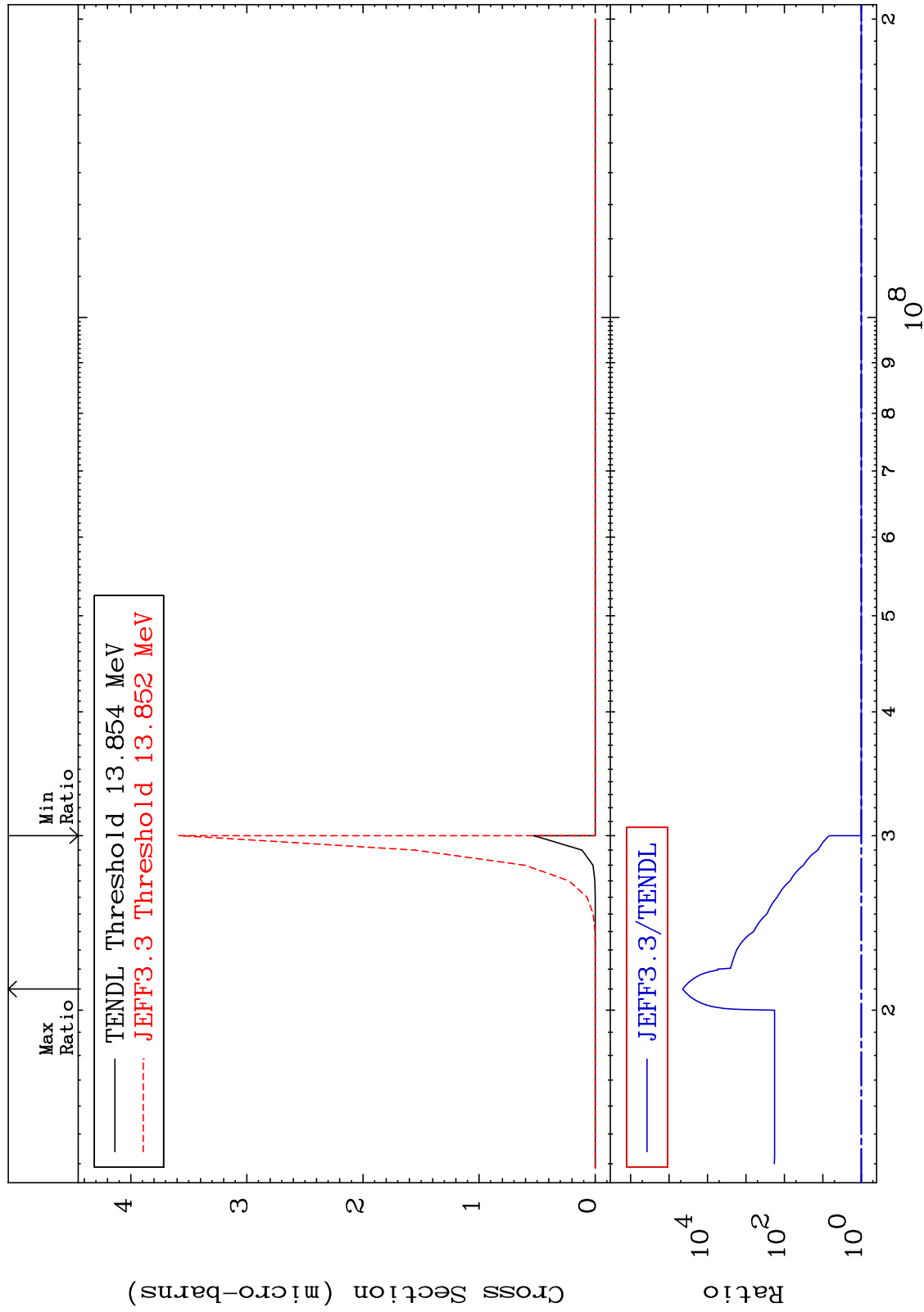


MAT 8034

(n,3n) α :78-Pt-193m5

80-Hg-199

Radionuclide Production Cross Section 0.000 To 9999. %

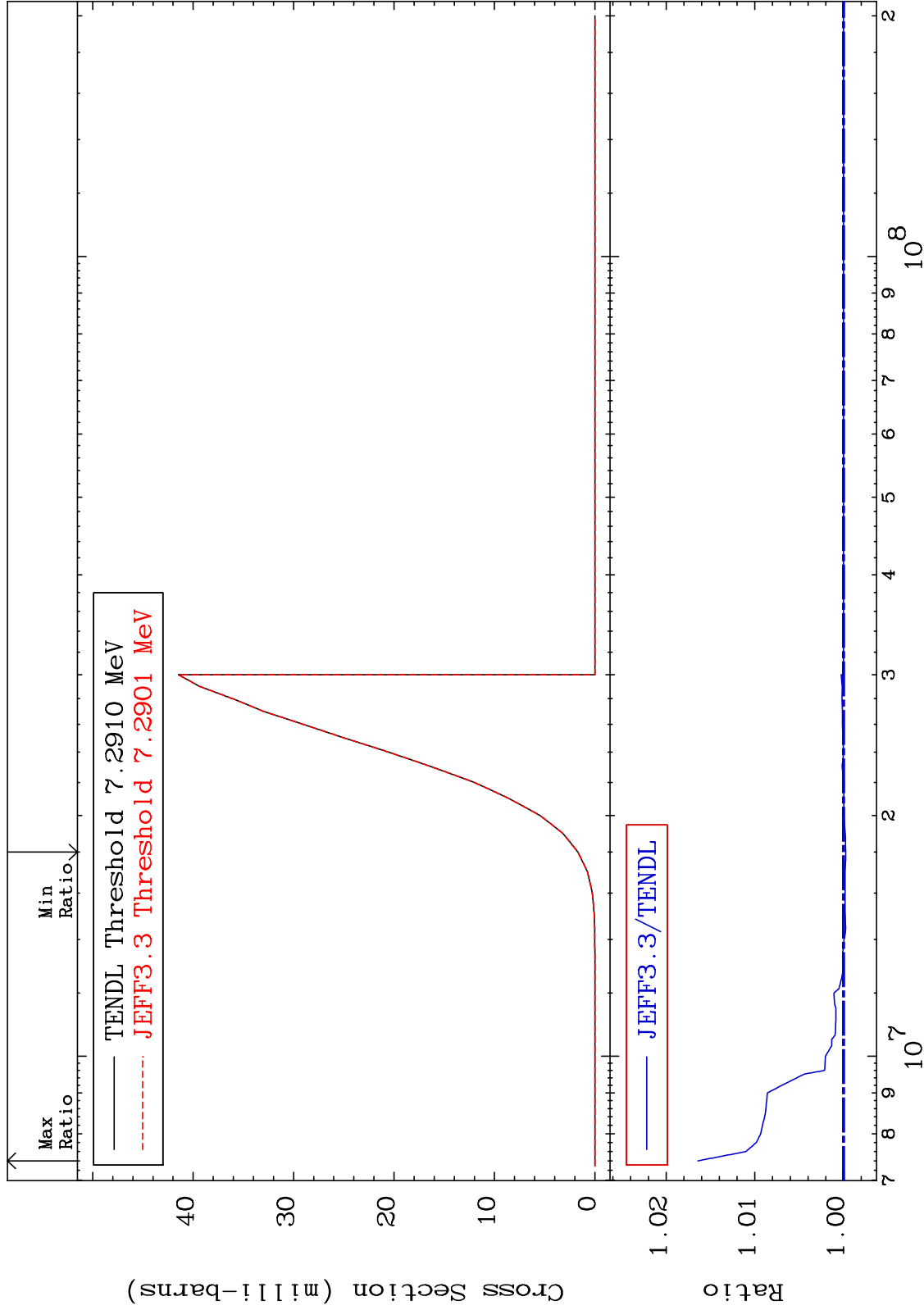


MAT 8034

(n,n') p:79-Au-198g

80-Hg-199

Radionuclide Production Cross Section -0.025 To 1.641 %



86

Incident Energy (eV)

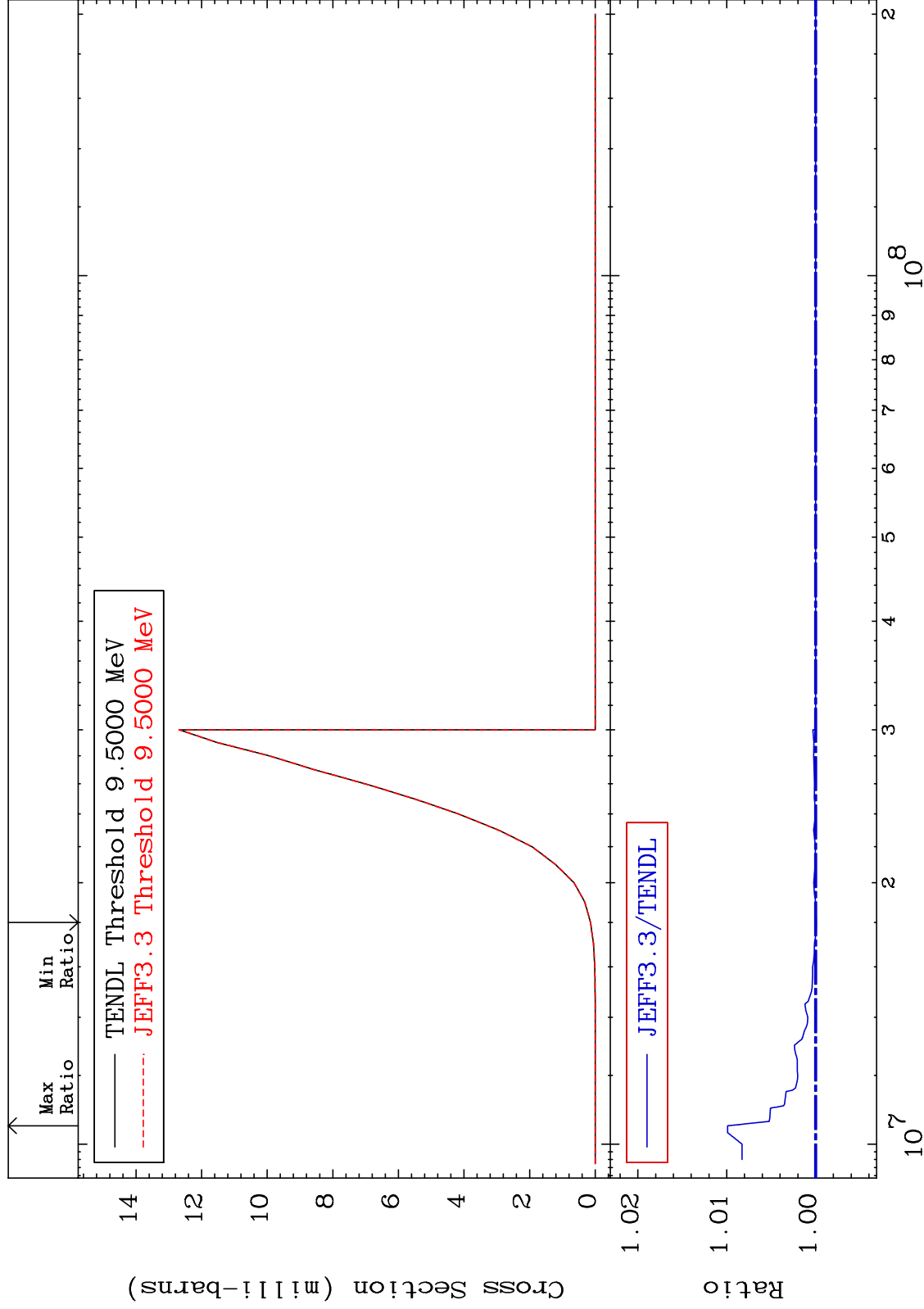
80-Hg-199

MAT 8034

(n,n') p:79-Au-198m5

80-Hg-199

Radionuclide Production Cross Section -0.008 To 0.990 %



87

Incident Energy (eV)

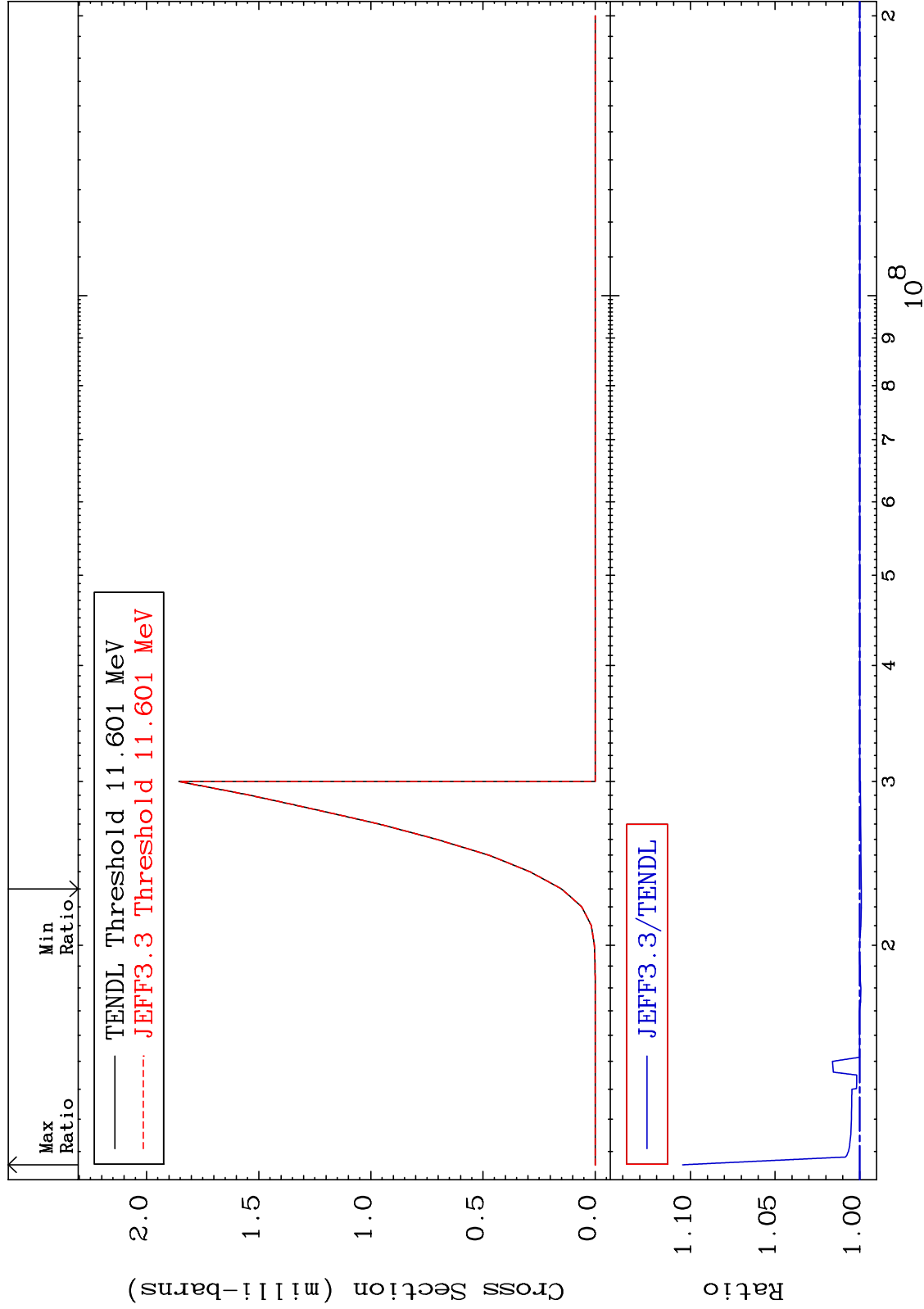
80-Hg-199

MAT 8034

(n, n') d:79-Au-197g

80-Hg-199

Radionuclide Production Cross Section -0.099 To 10.46 %

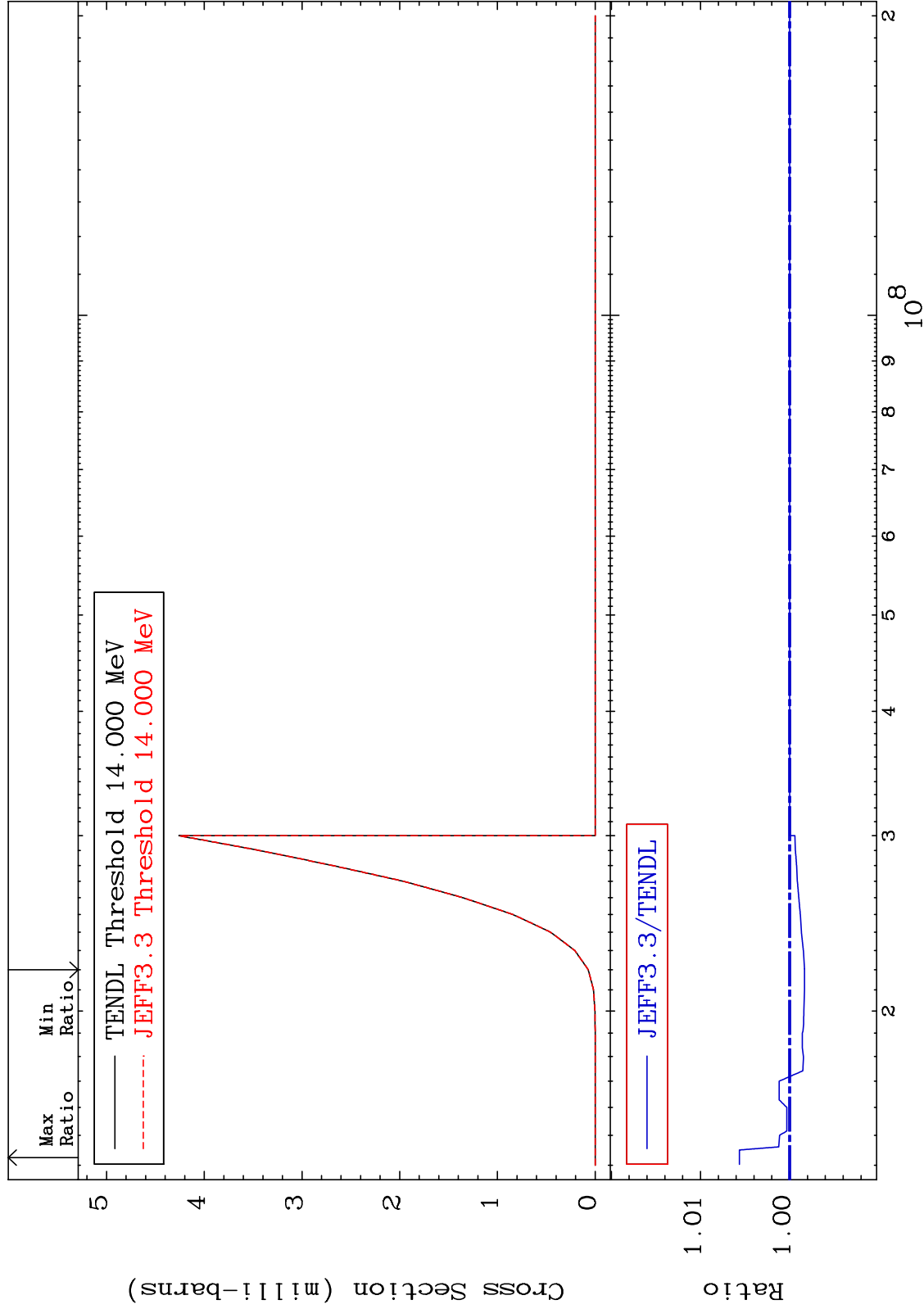


MAT 8034

(n, n') d:79-Au-197m4

80-Hg-199

Radionuclide Production Cross Section -0.167 To 0.563 %

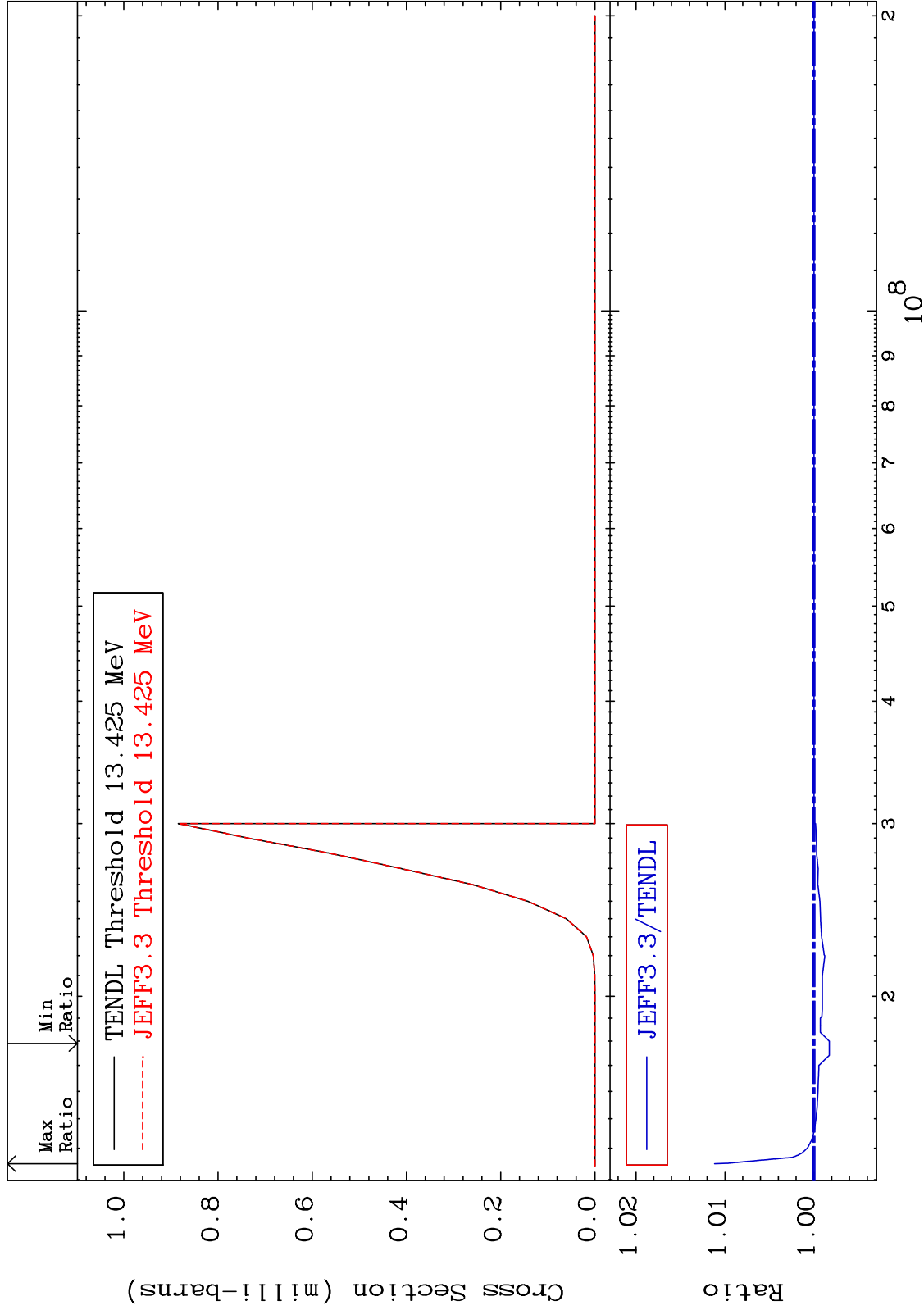


MAT 8034

(n, n') t: 79-Au-196g

80-Hg-199

Radionuclide Production Cross Section -0.172 To 1.117 %

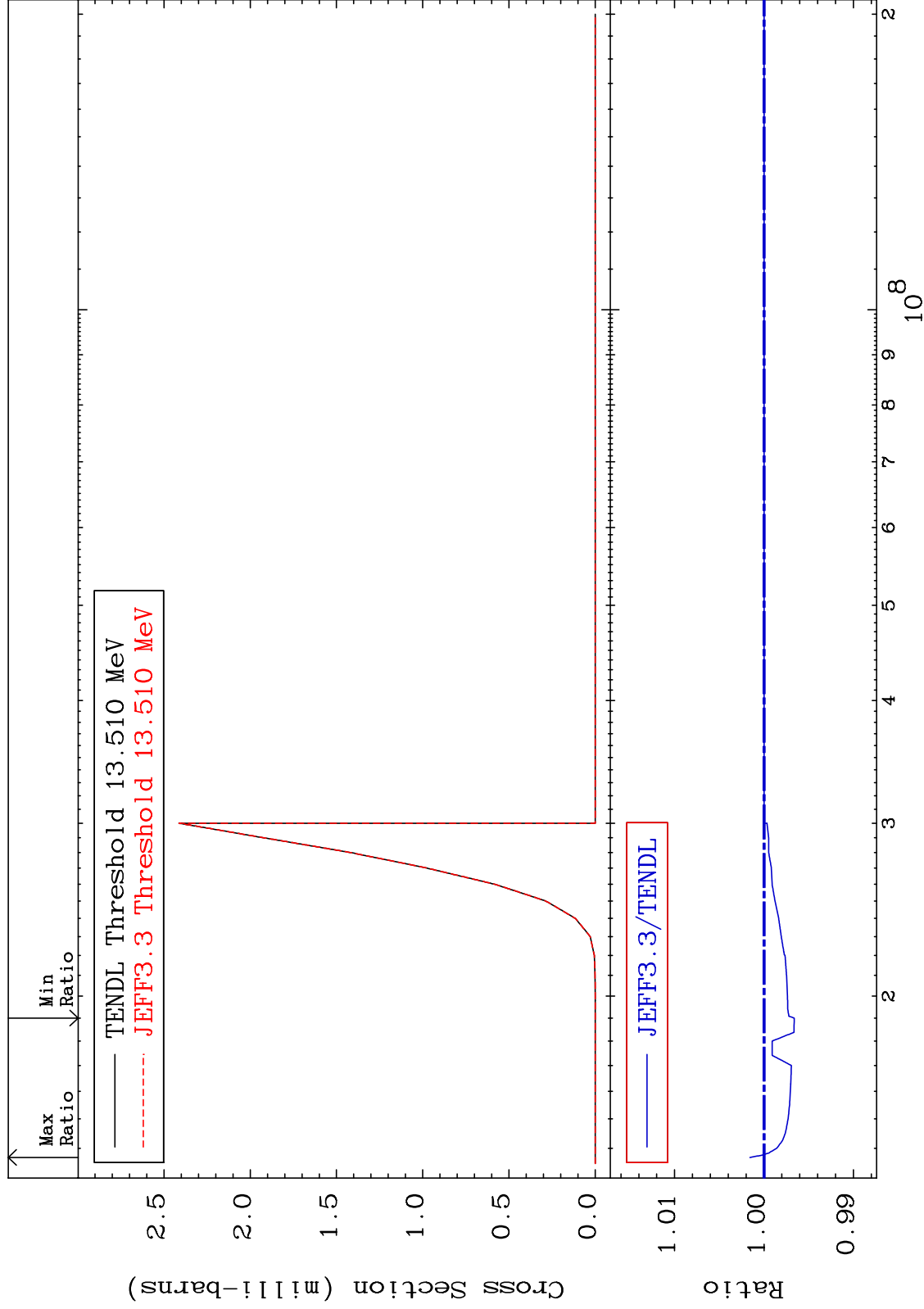


MAT 8034

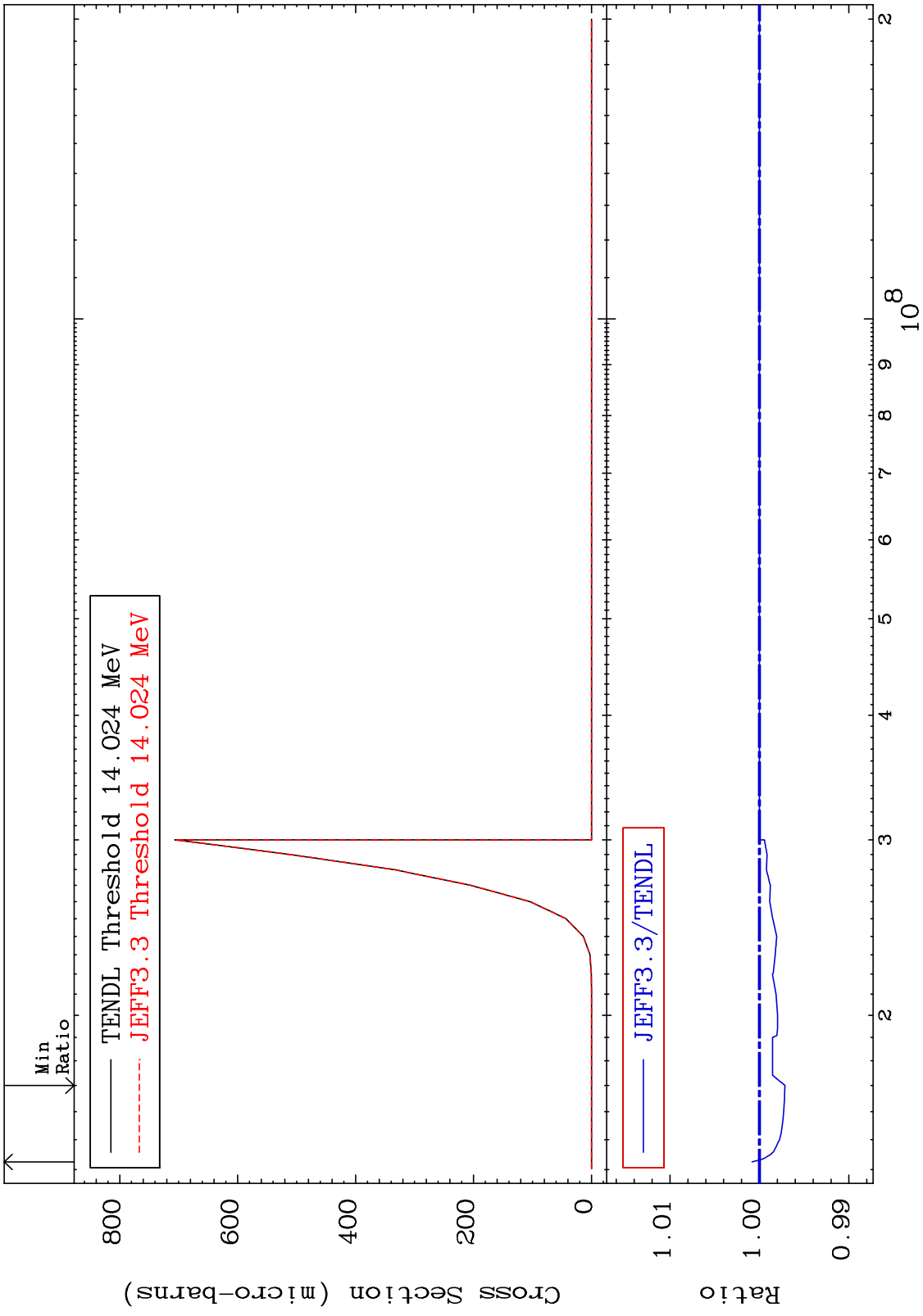
(n,n') t:79-Au-196m3

80-Hg-199

Radionuclide Production Cross Section -0.337 To 0.158 %



MAT 8034 (n,n') t:79-Au-196m10 80-Hg-199
 Radionuclide Production Cross Section -0.285 To 0.084 %

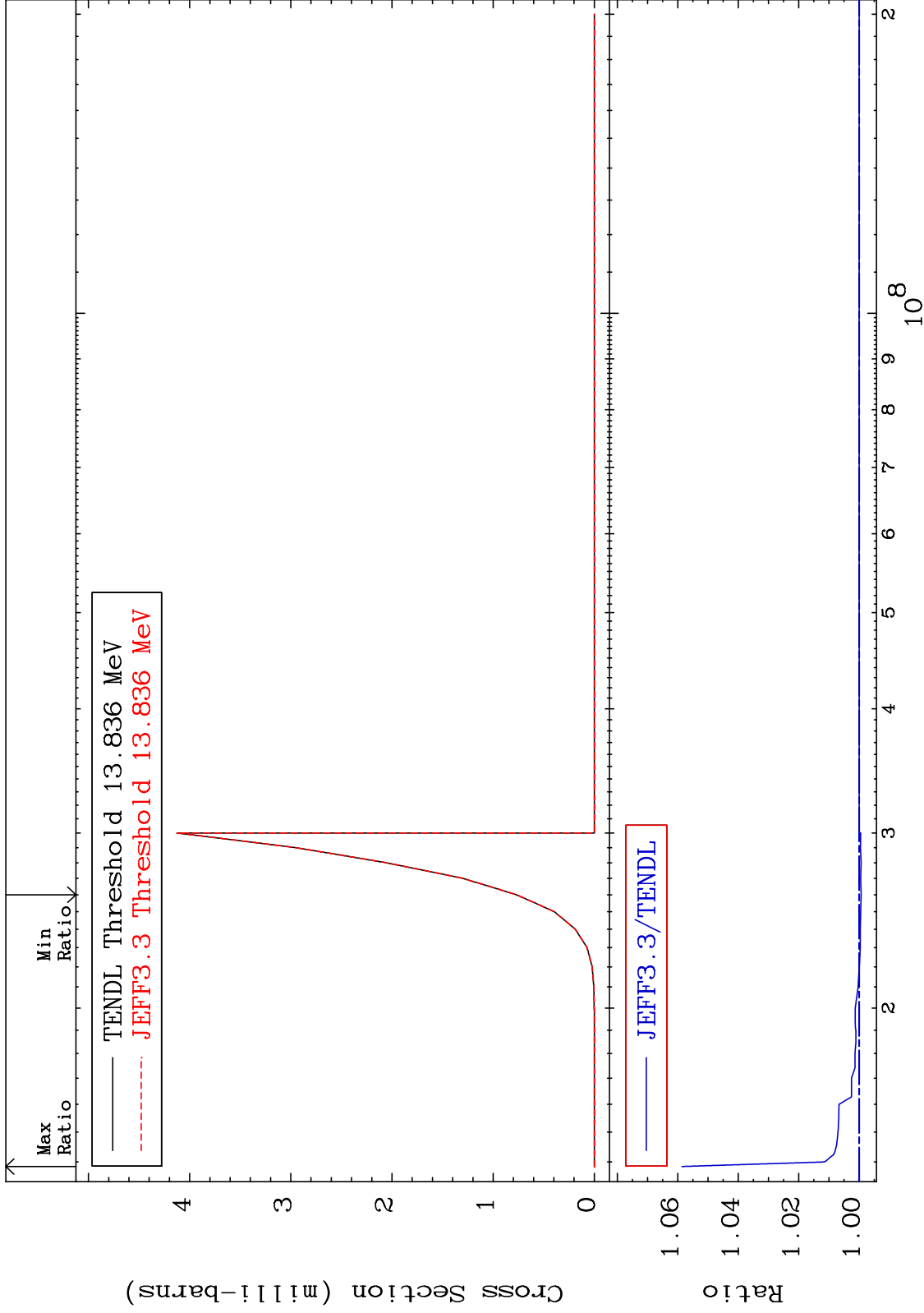


MAT 8034

(n,2n) p:79-Au-197g

80-Hg-199

Radionuclide Production Cross Section -0.067 To 5.858 %

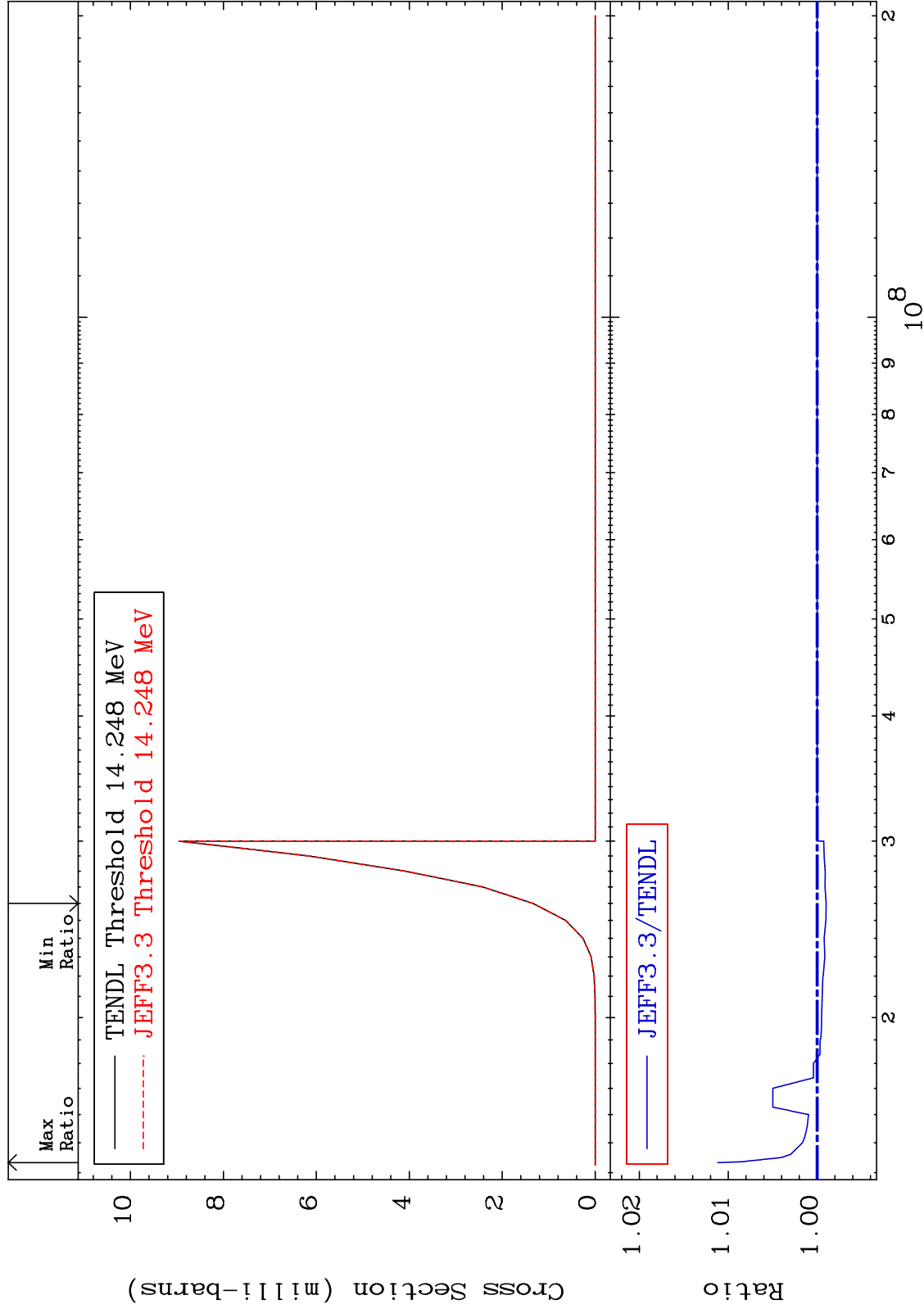


MAT 8034

(n,2n) p:79-Au-197m4

80-Hg-199

Radionuclide Production Cross Section -0.101 To 1.117 %

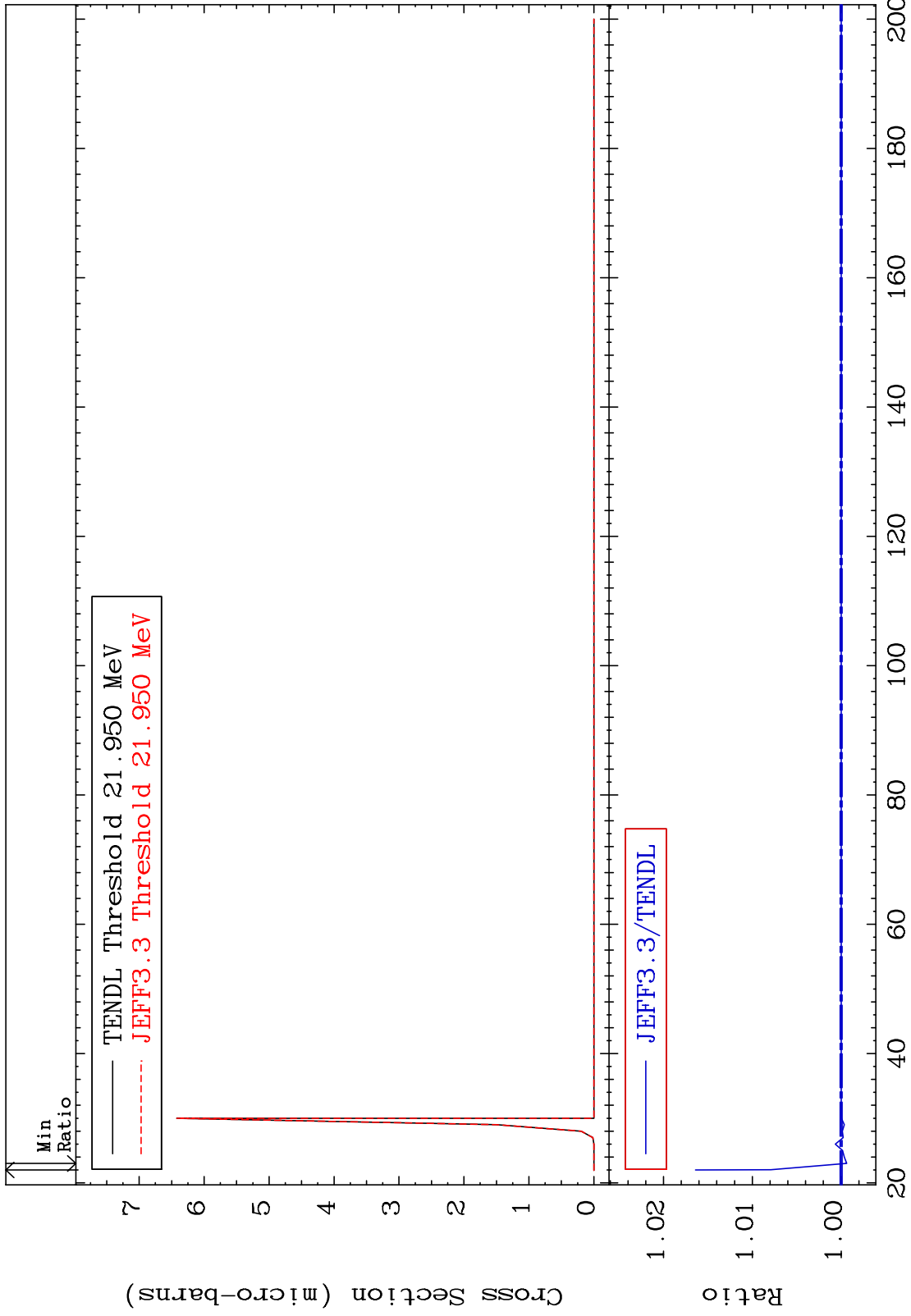


MAT 8034

(n,3n) p:79-Au-196g

80-Hg-199

Radionuclide Production Cross Section -0.062 To 1.640 %



95

Incident Energy (MeV)

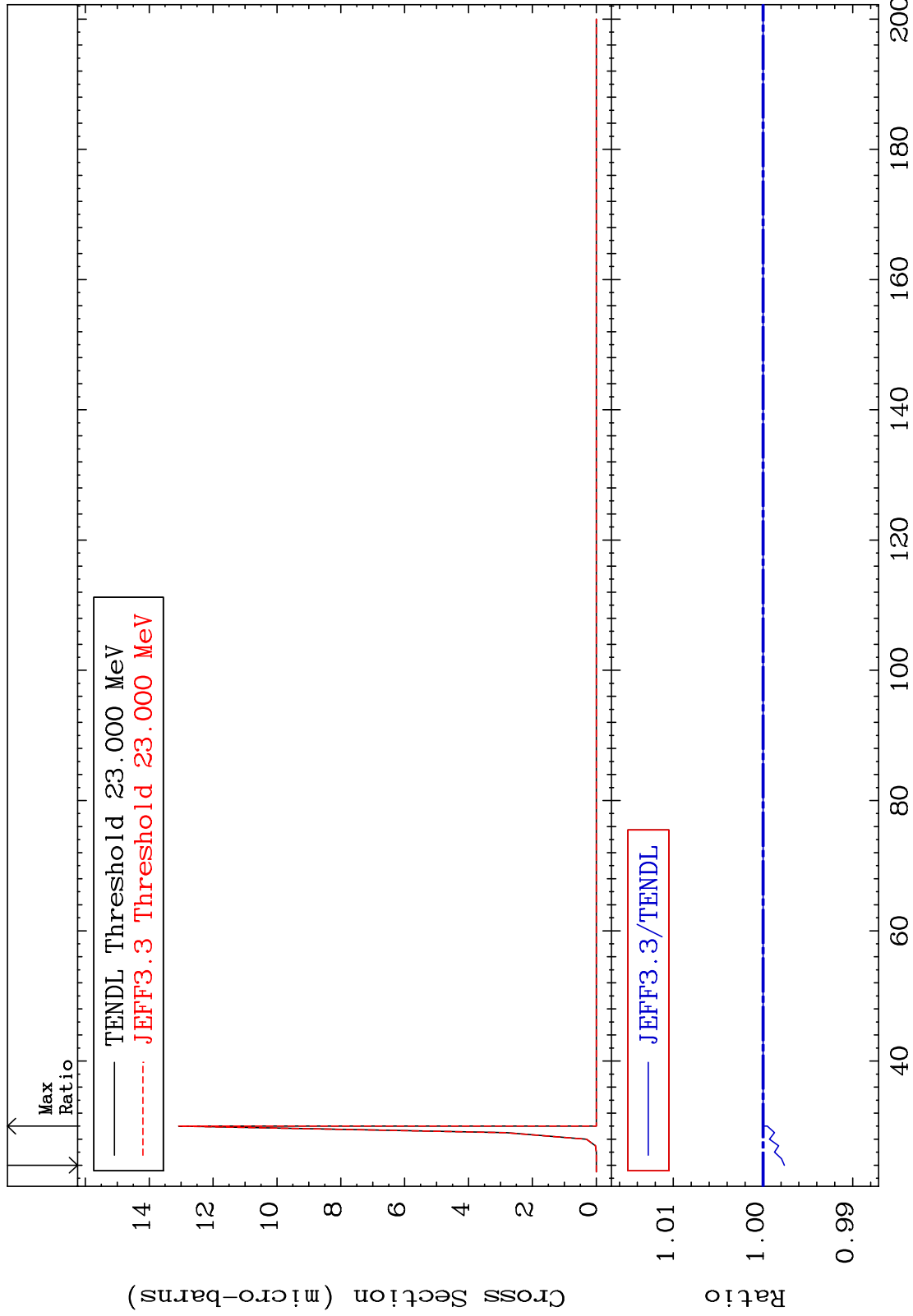
80-Hg-199

MAT 8034

(n,3n) p:79-Au-196m3

80-Hg-199

Radionuclide Production Cross Section -0.238 To 0.000 %

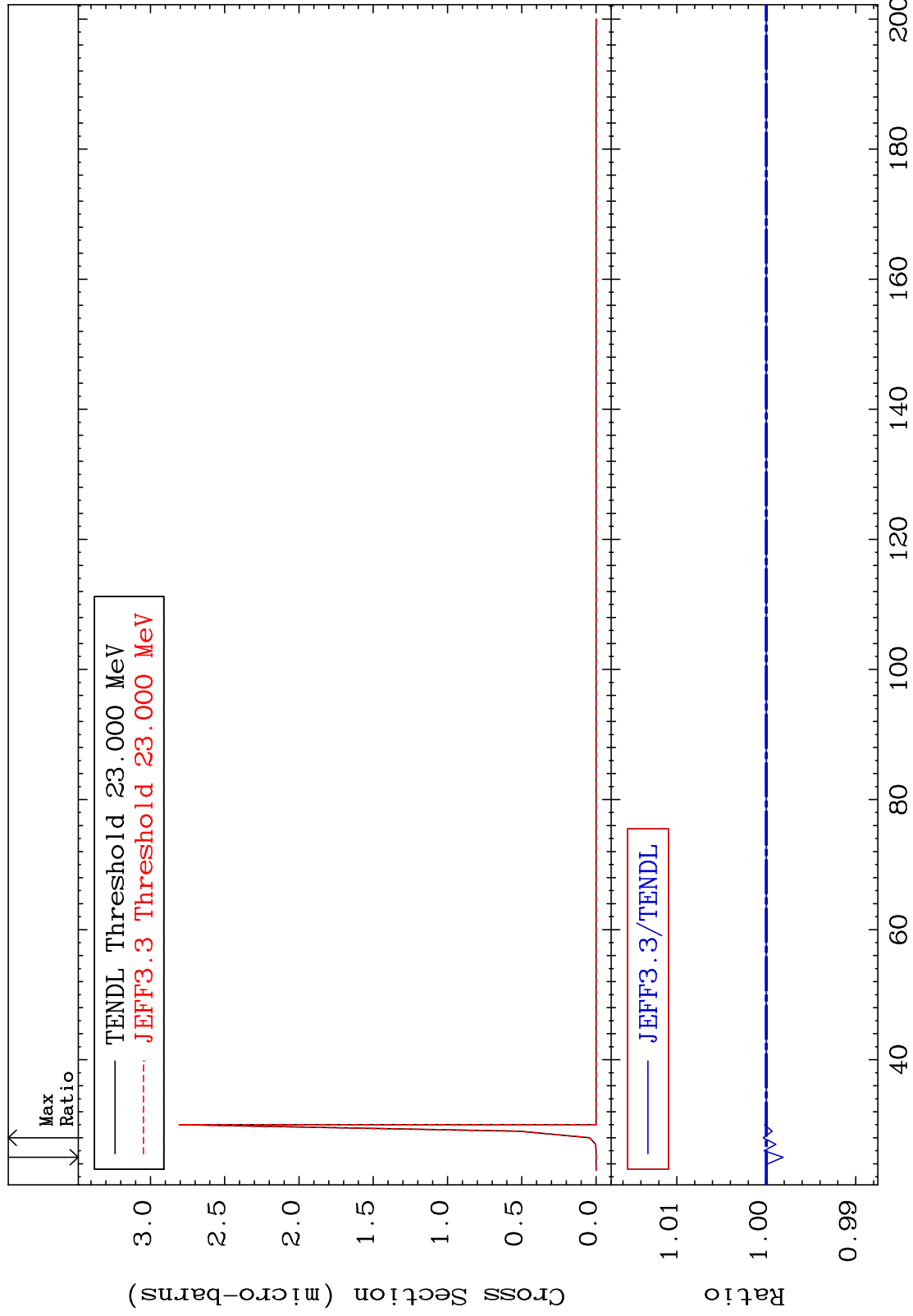


MAT 8034

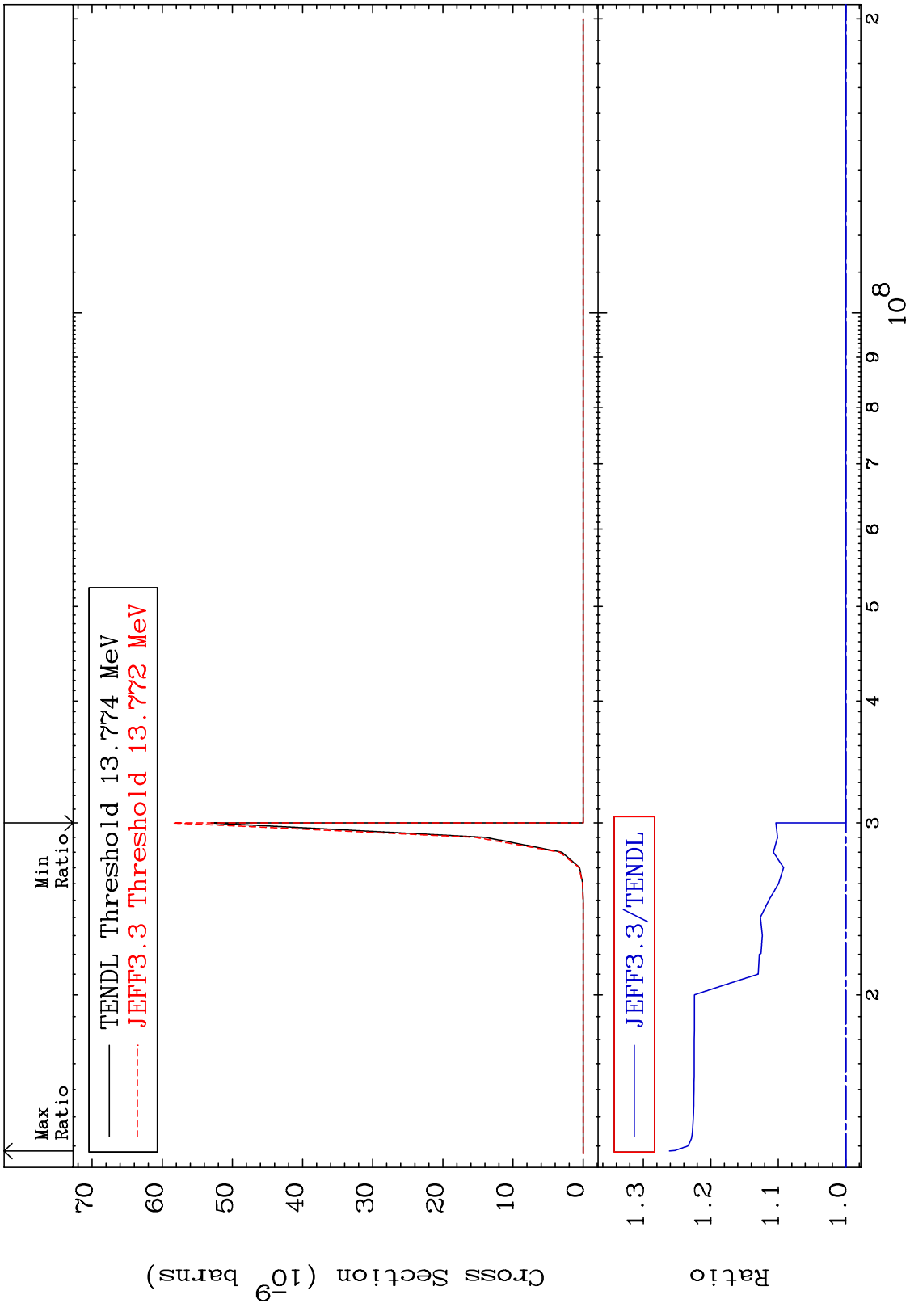
(n,3n) p:79-Au-196m10

80-Hg-199

Radionuclide Production Cross Section -0.187 To 0.034 %



MAT 8034 (n,2n) p:78-Pt-197g 80-Hg-199
 Radionuclide Production Cross Section 0.000 To 26.12 %

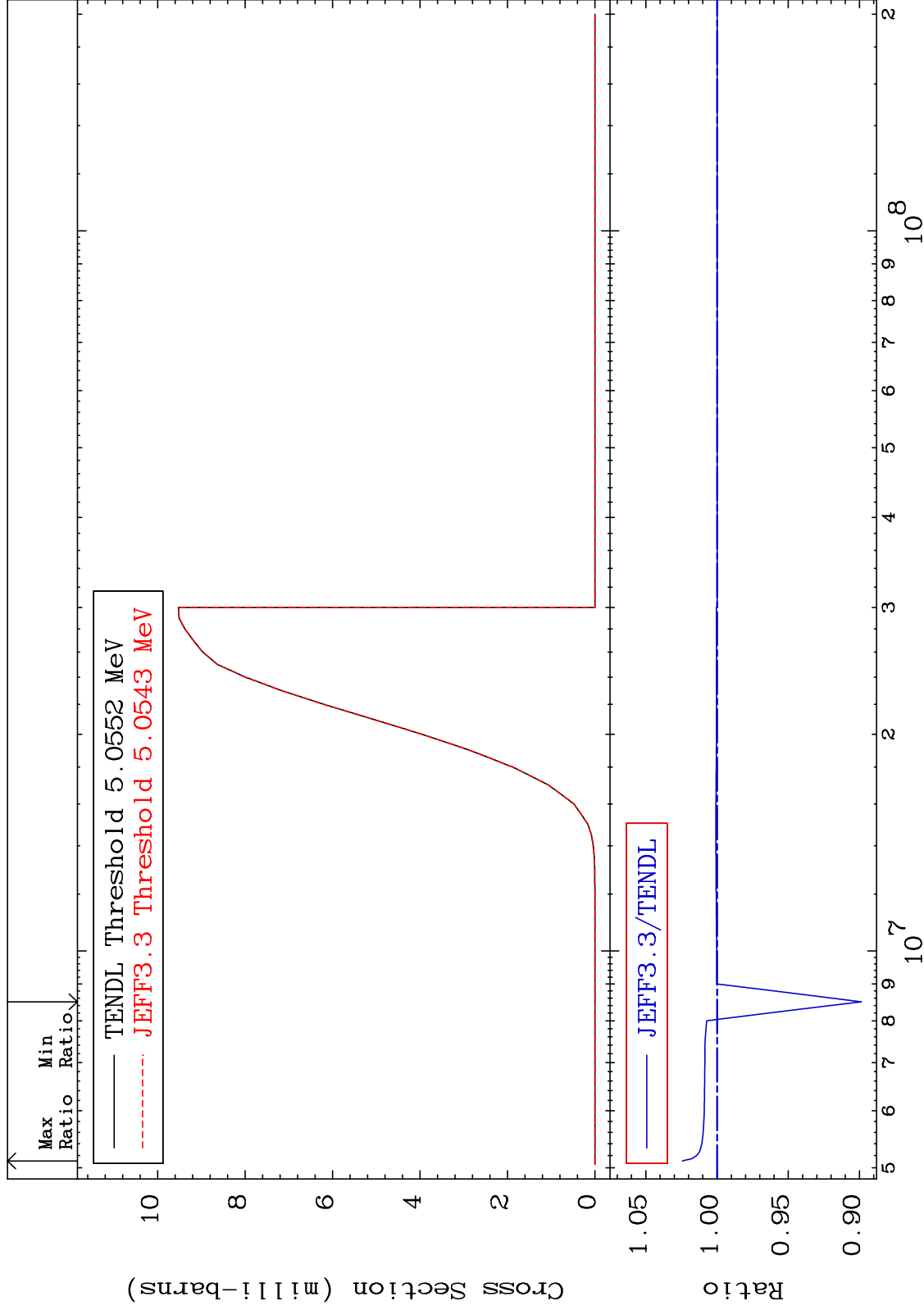


MAT 8034

(n,d) : 79-Au-198g

80-Hg-199

Radionuclide Production Cross Section -10.12 To 2.427 %

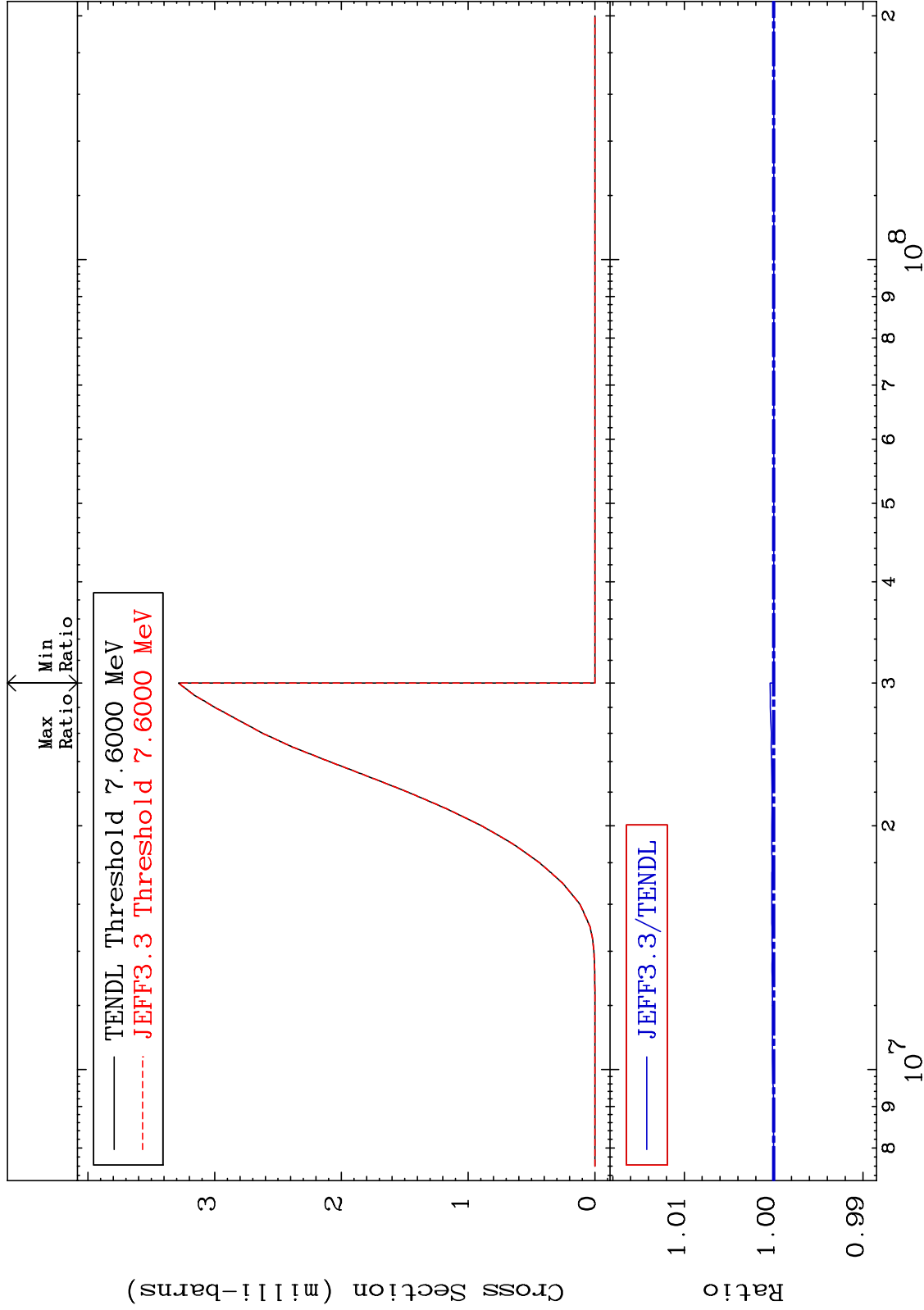


MAT 8034

(n, d) : 79-Au-198m5

80-Hg-199

Radionuclide Production Cross Section 0.000 To 0.040 %

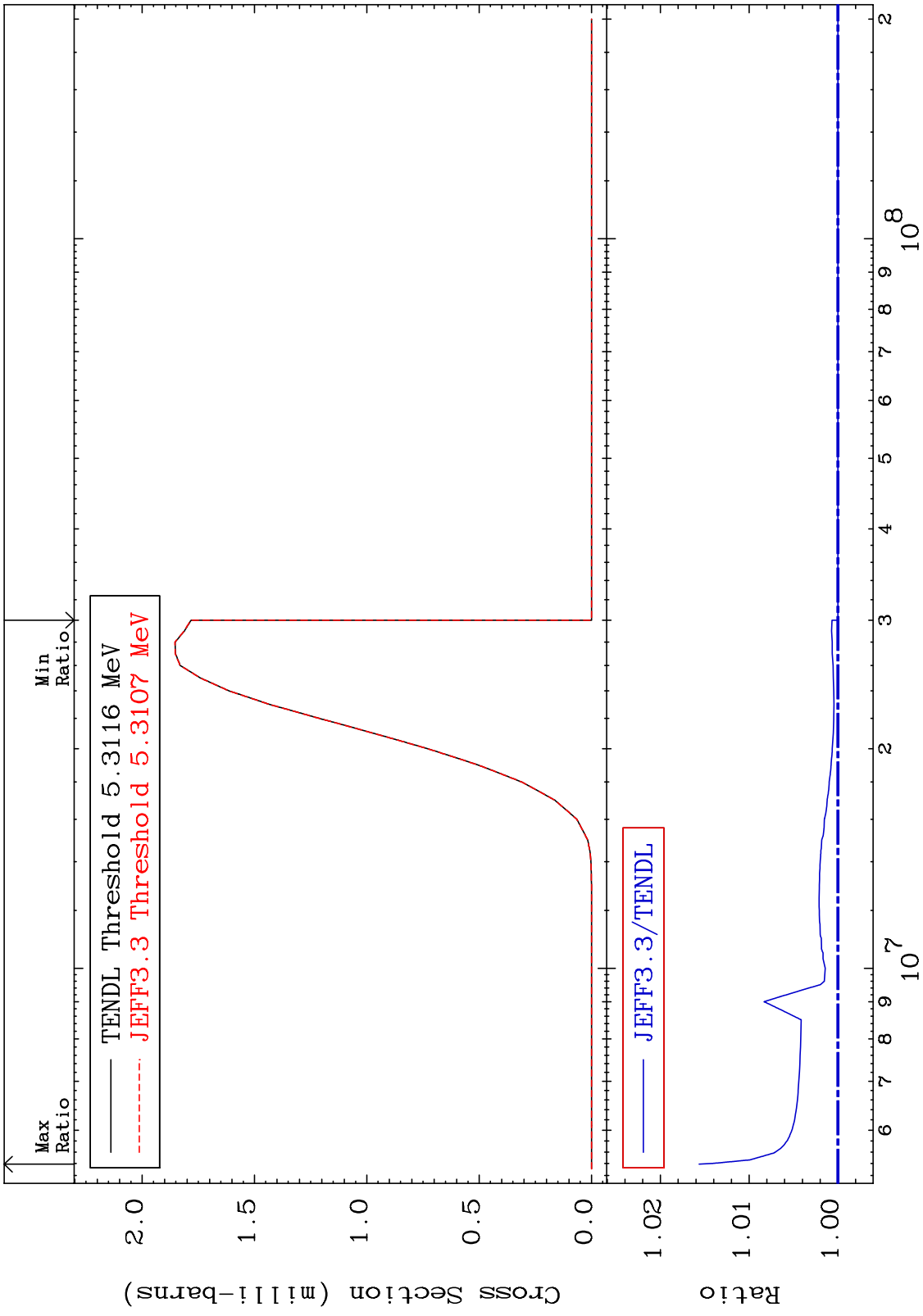


100

Incident Energy (eV)

80-Hg-199

MAT 8034 (n,t):79-Au-197g 80-Hg-199
 Radionuclide Production Cross Section 0.000 To 1.565 %

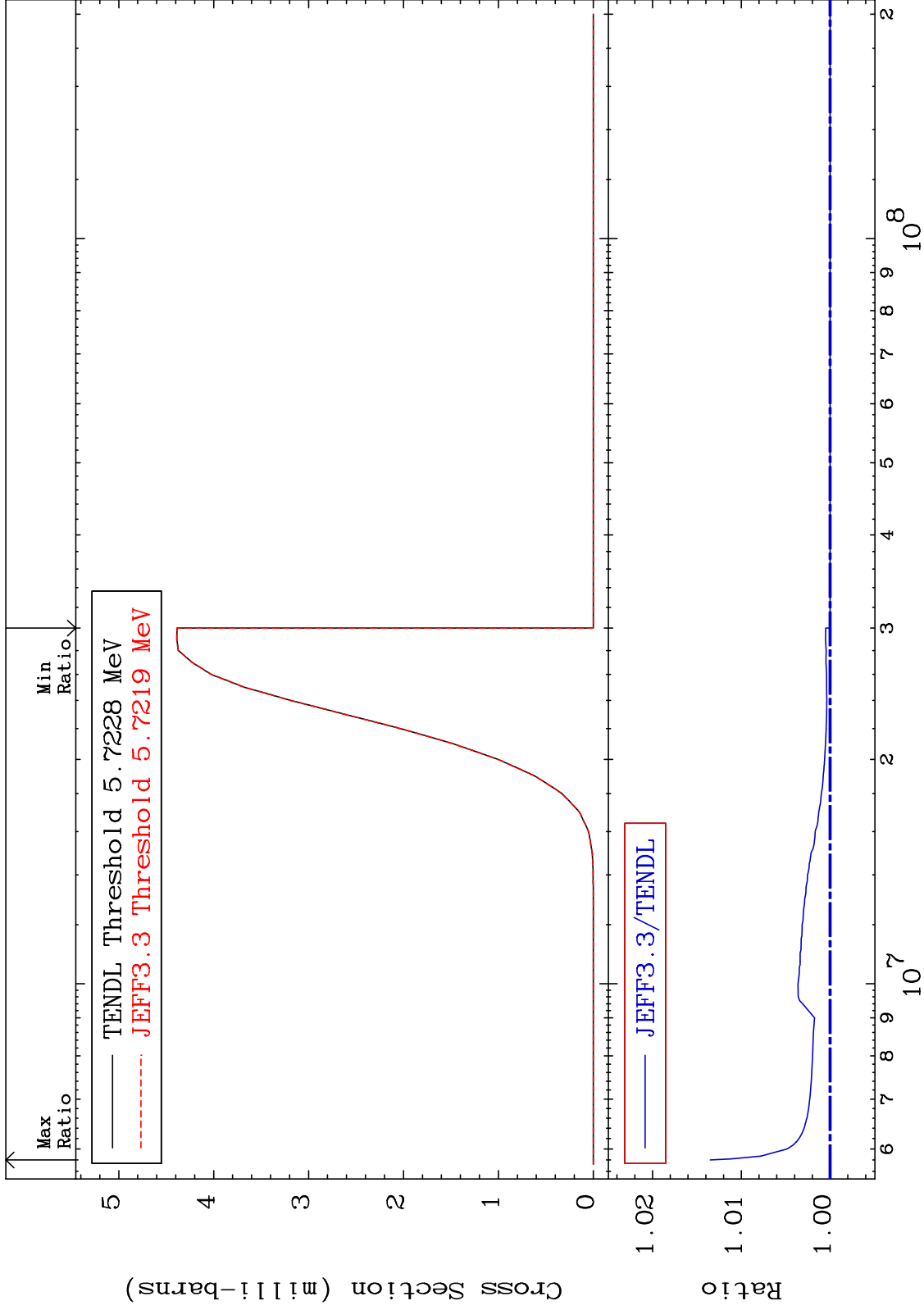


MAT 8034

(n, t): 79-Au-197m4

80-Hg-199

Radionuclide Production Cross Section 0.000 To 1.349 %



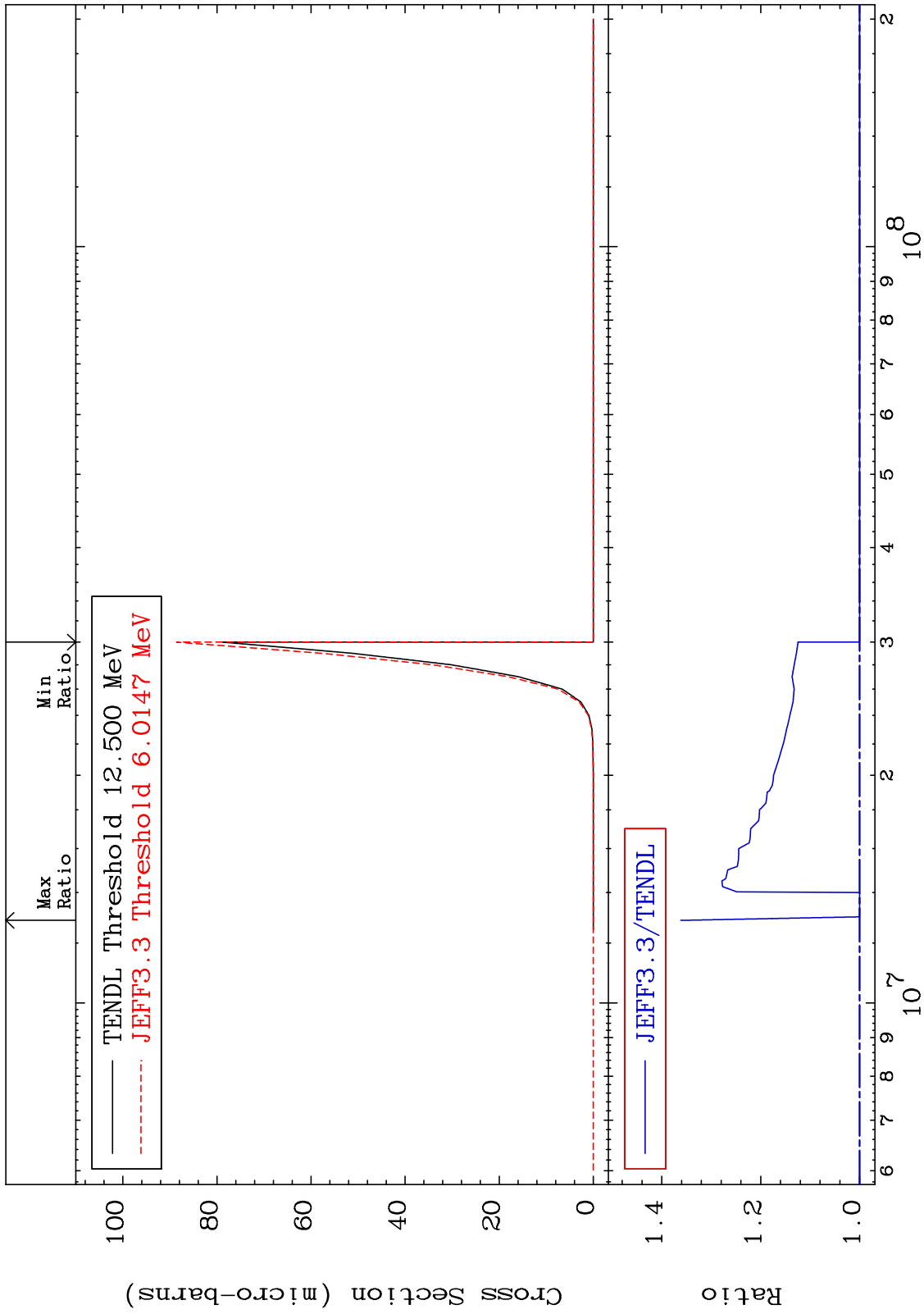
102

Incident Energy (eV)

80-Hg-199

MAT 8034

(n, He-3) : 78-Pt-197g 80-Hg-199
Radionuclide Production Cross Section 0.000 To 36.15 %



103

Incident Energy (eV)

80-Hg-199

MAT 8034

(n,p) d:78-Pt-197g

80-Hg-199

Radionuclide Production Cross Section 0.000 To 32.06 %

