

Program Complot
(Version 2018-1)

by

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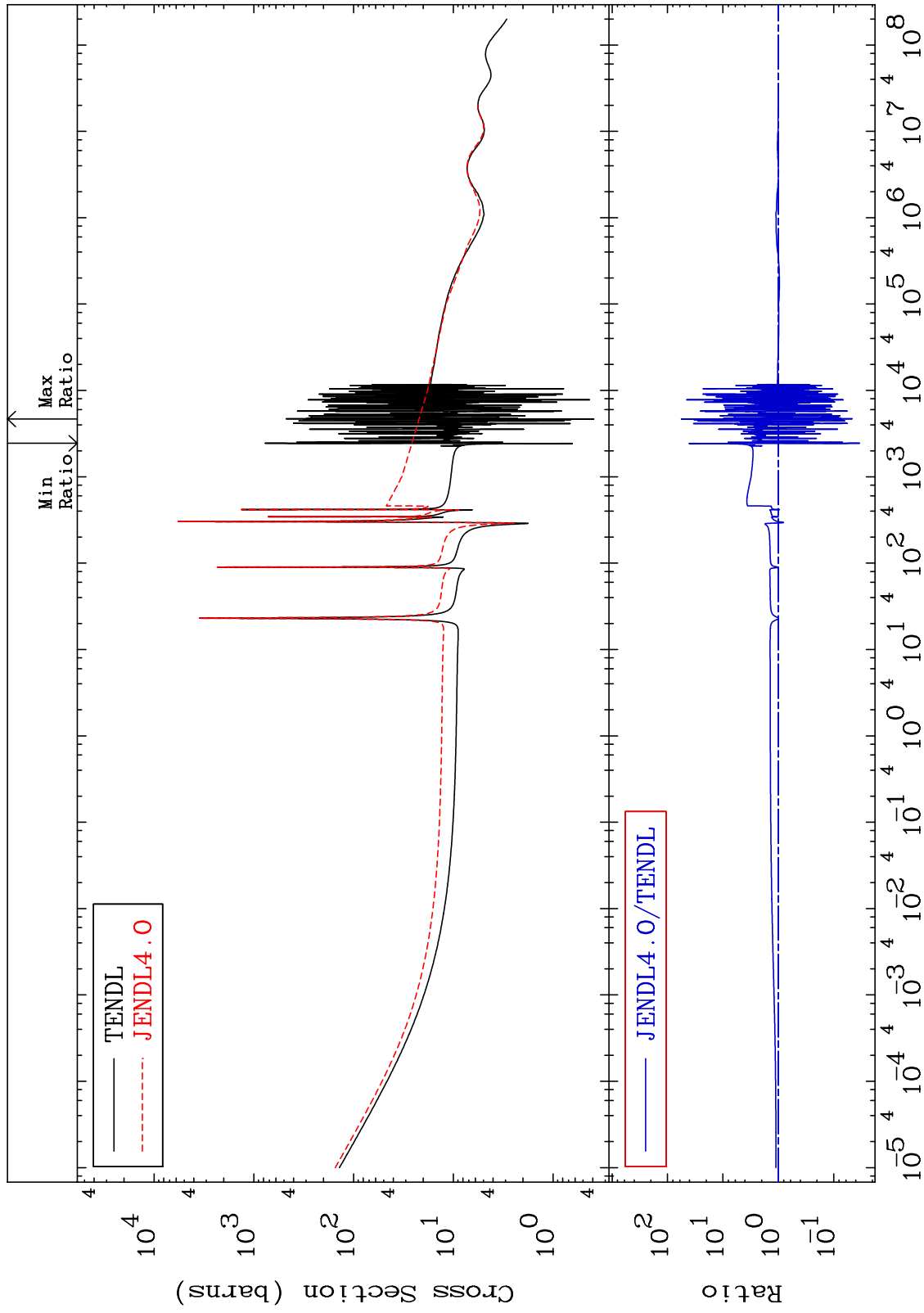
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 8031

Total
Cross Section

80-Hg-198
-96.61 To 5555. %



1

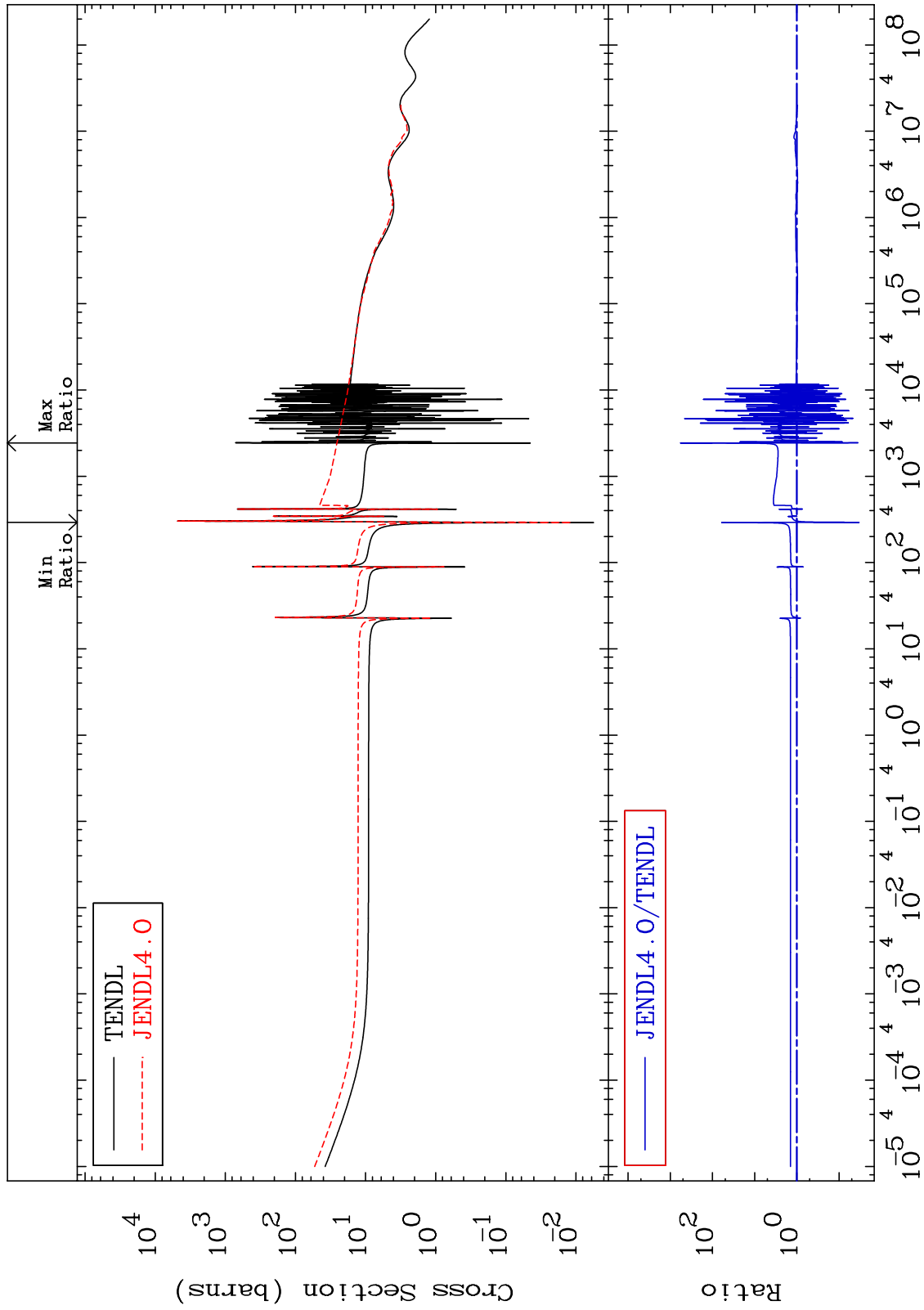
Incident Energy (eV)

80-Hg-198

MAT 8031

Elastic
Cross Section

80-Hg-198
-96.63 To 9999. %

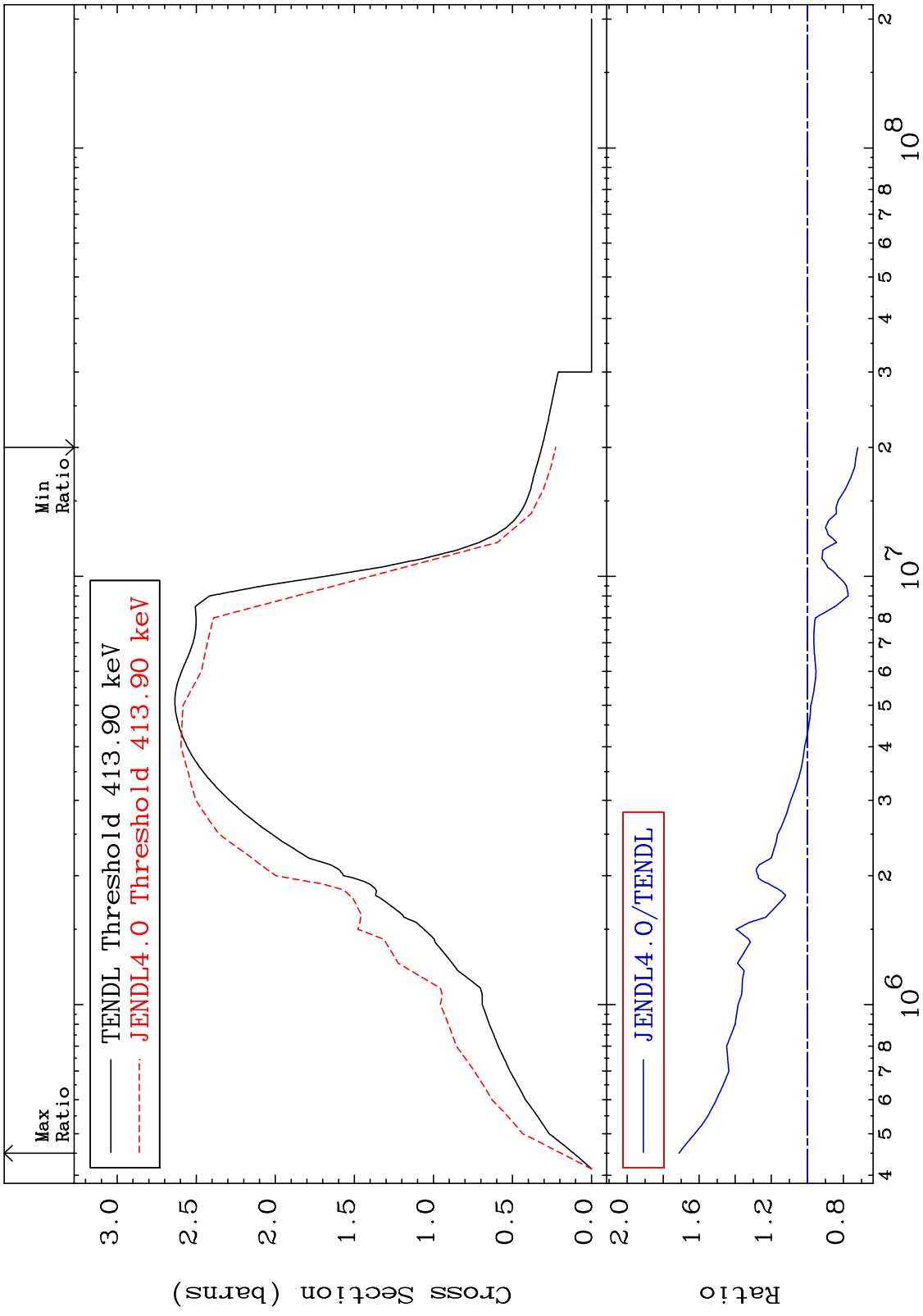


2

Incident Energy (eV)

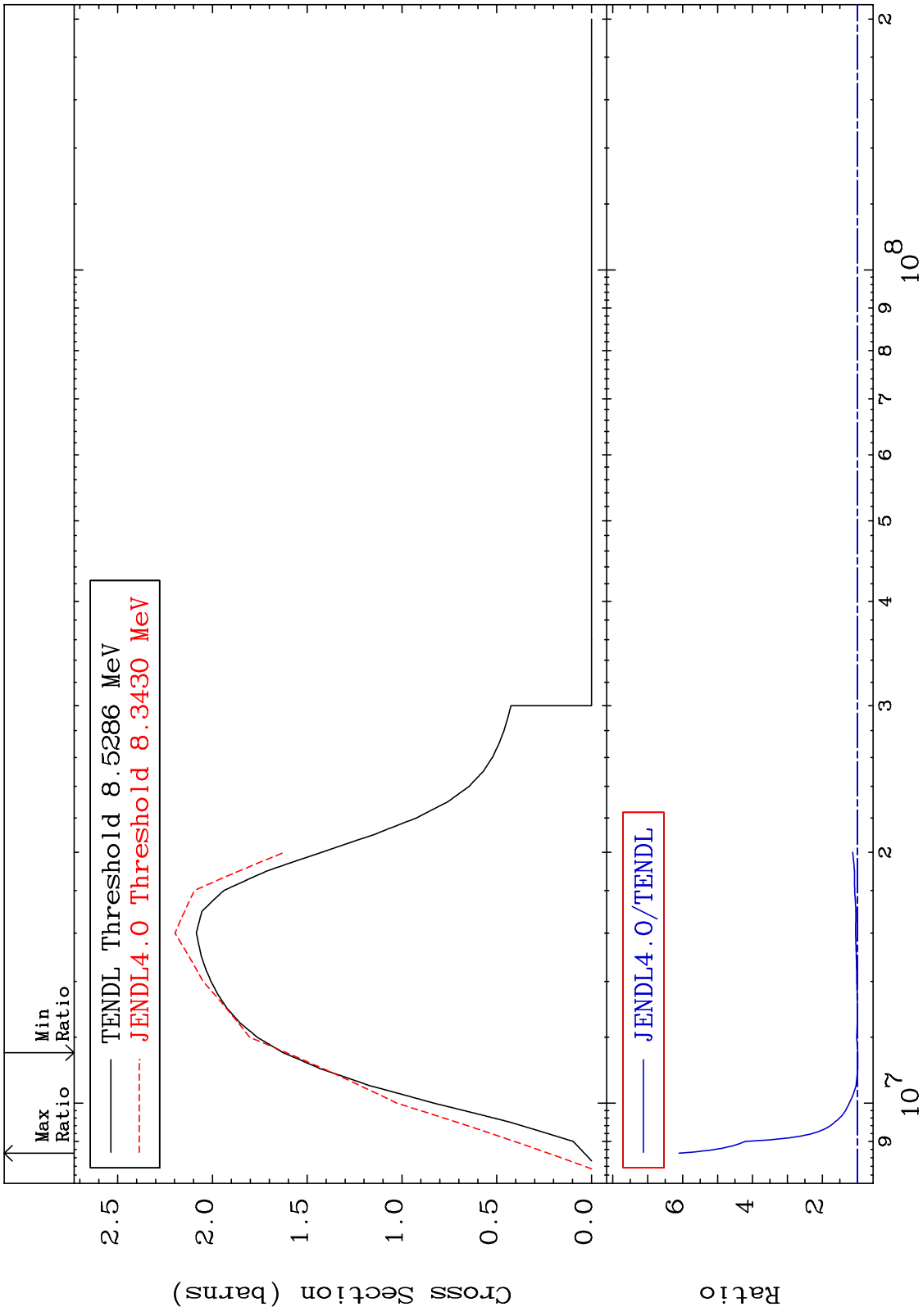
80-Hg-198

MAT 8031 Inelastic Cross Section 80-Hg-198 -28.02 To 71.17 %



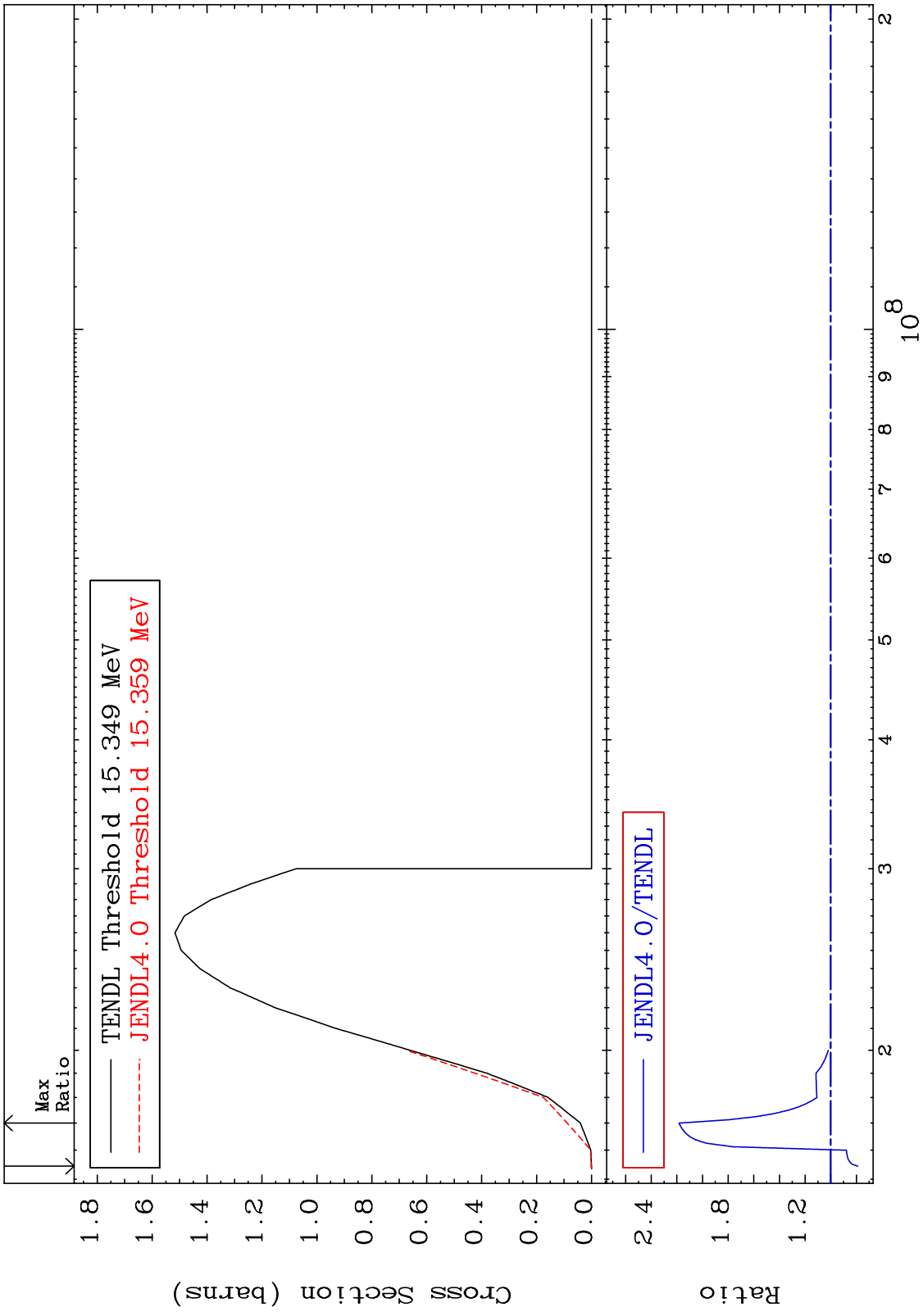
3 Incident Energy (eV) 80-Hg-198

MAT 8031 (n,2n) Cross Section 80-Hg-198 -1.123 To 510.1 %



80-Hg-198 Incident Energy (eV) 4

MAT 8031 (n,3n) Cross Section 80-Hg-198 -21.13 To 118.3 %



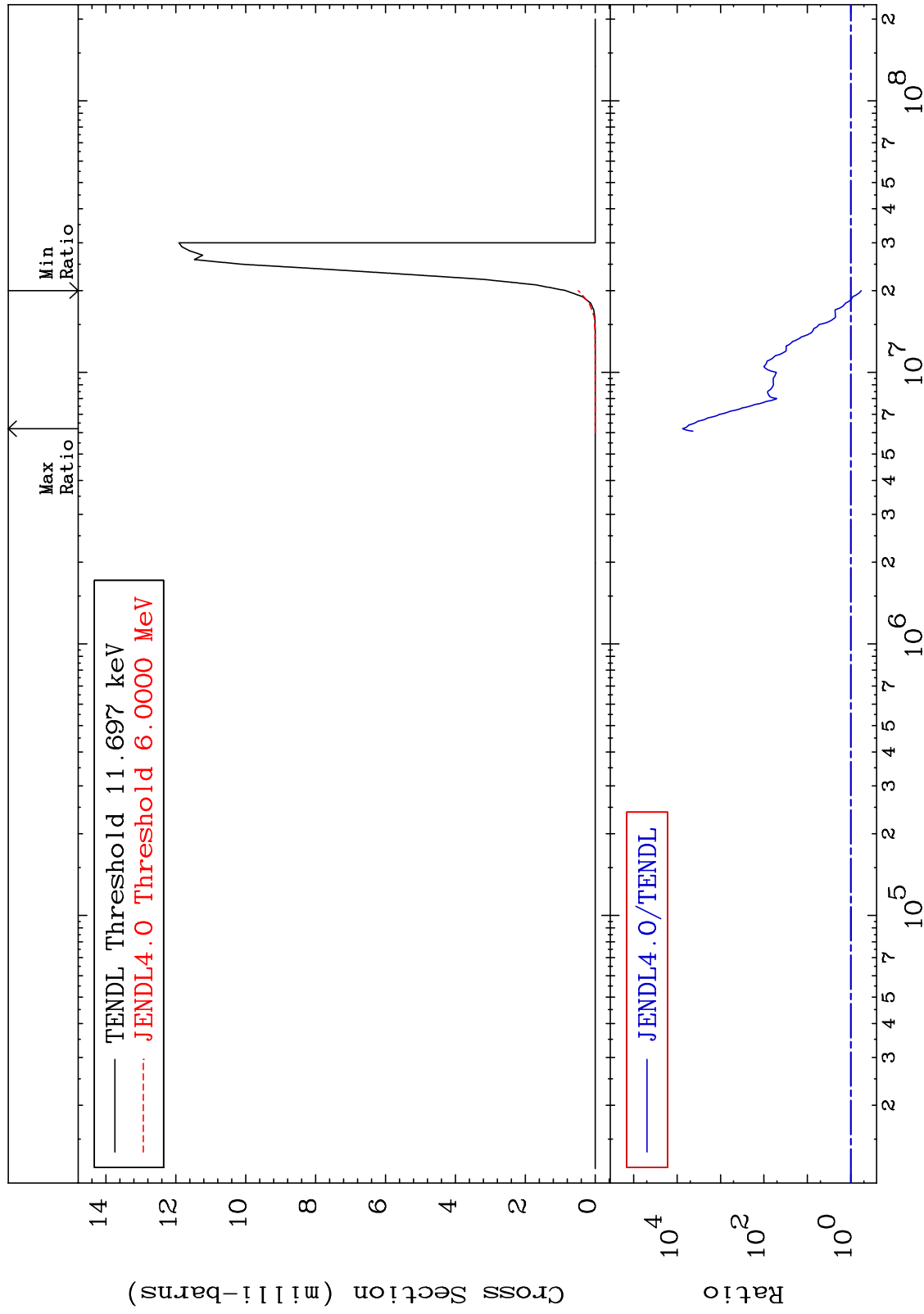
MAT 8031

(n,n') α

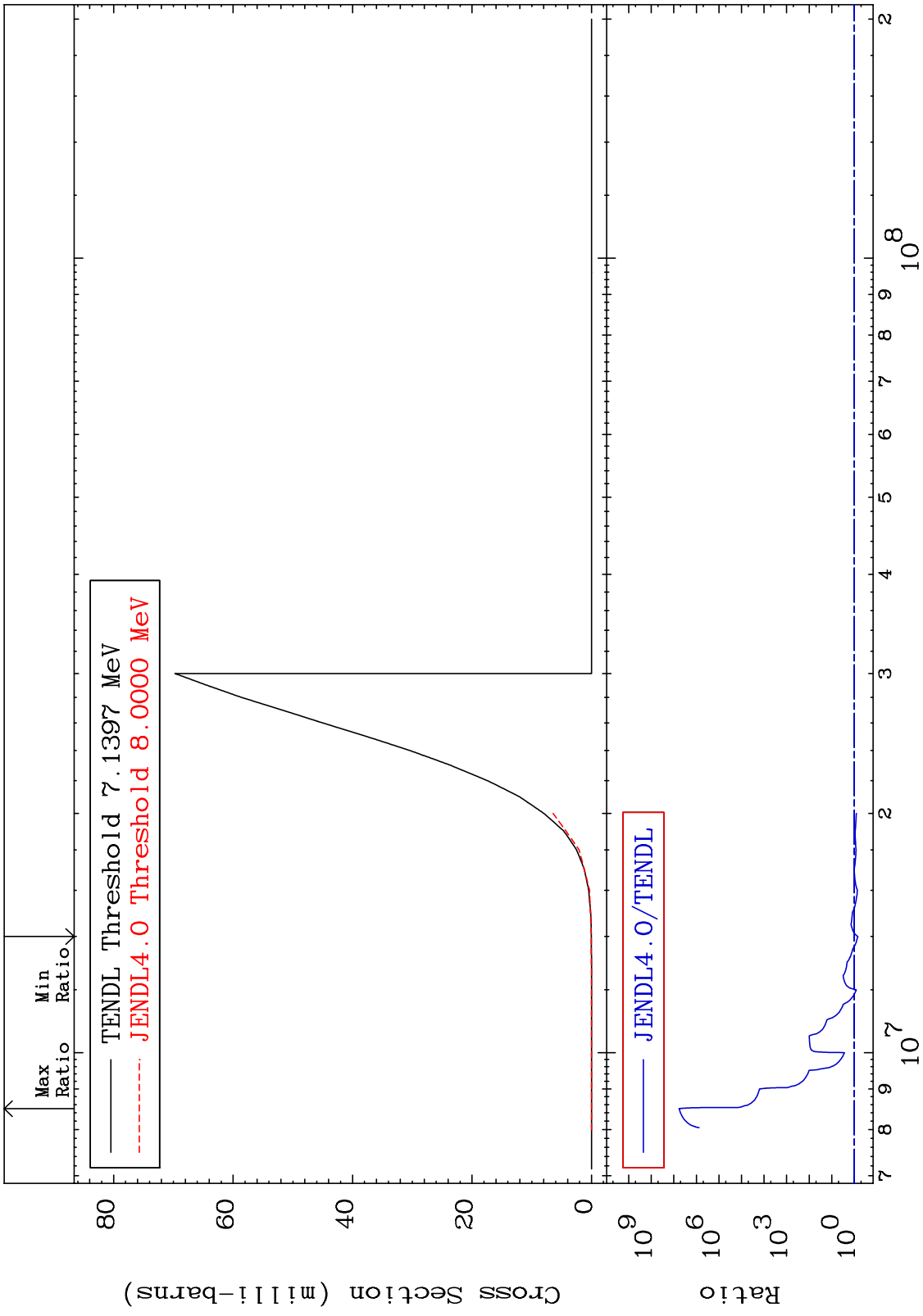
80-Hg-198

Cross Section

-42.96 To 9999. %

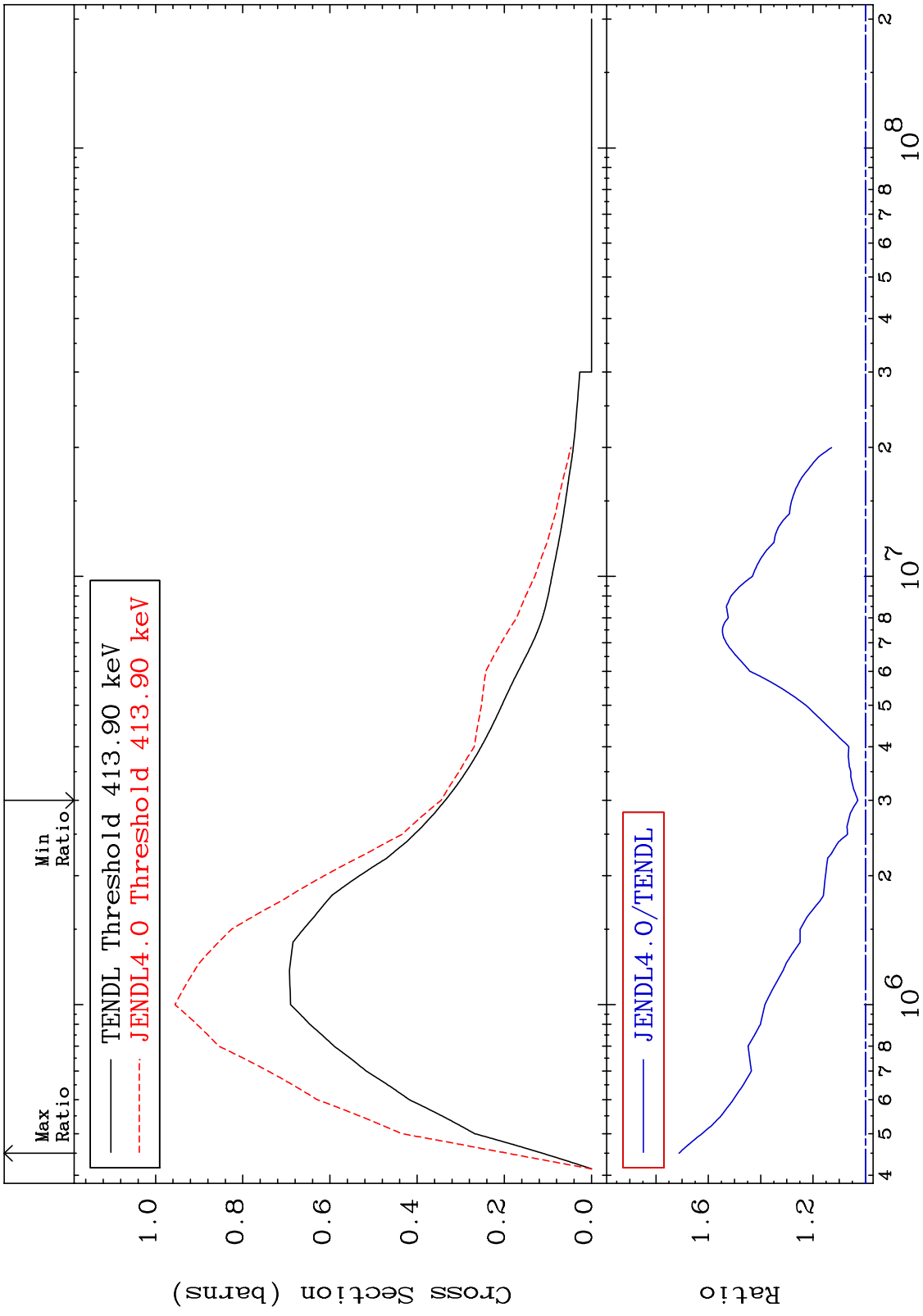


MAT 8031 (n,n') p 80-Hg-198
 Cross Section -30.34 To 9999. %



80-Hg-198 Incident Energy (eV)

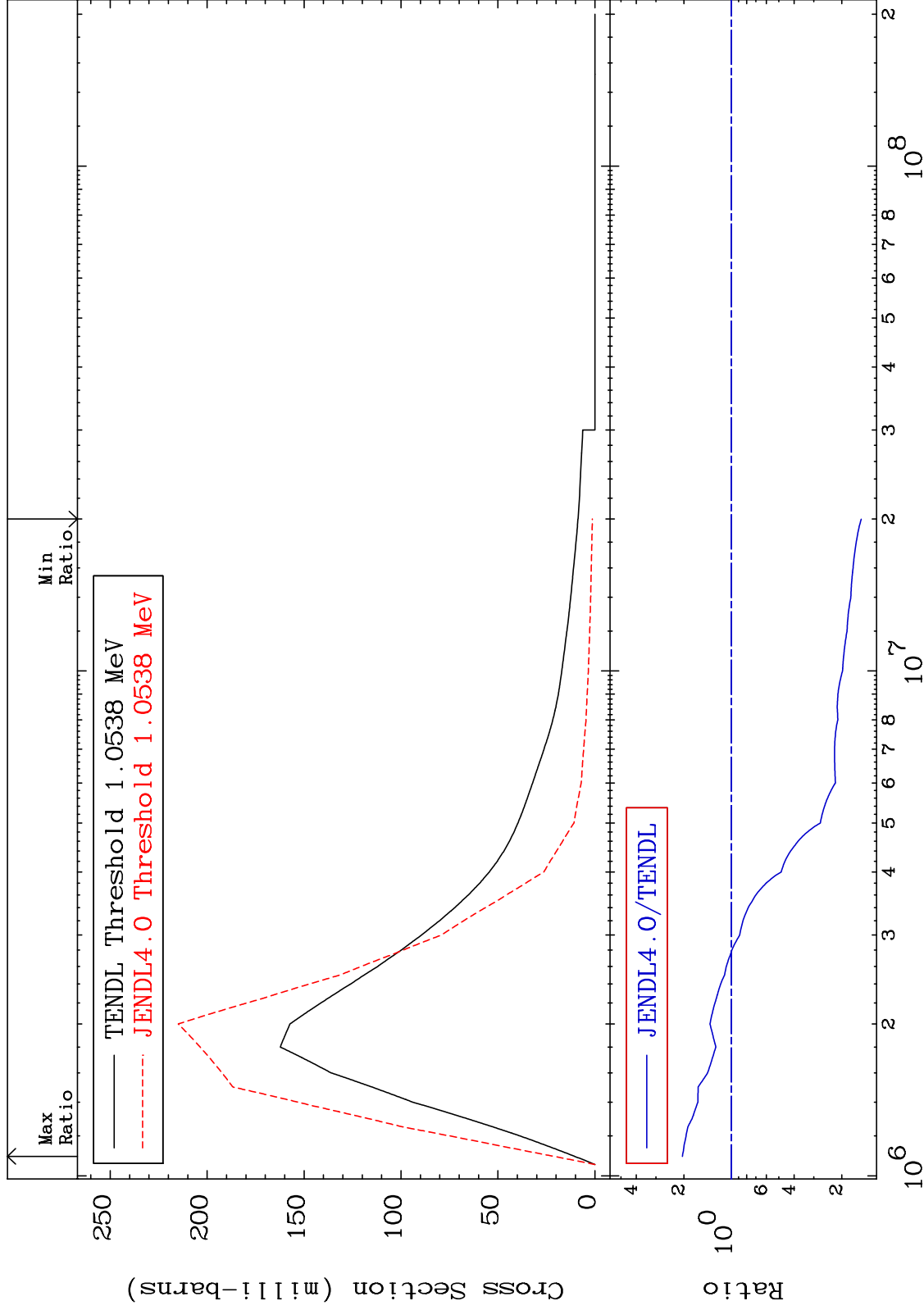
MAT 8031 MT= 51 (n,n') Level Cross Section 80-Hg-198 2.877 To 71.17 %



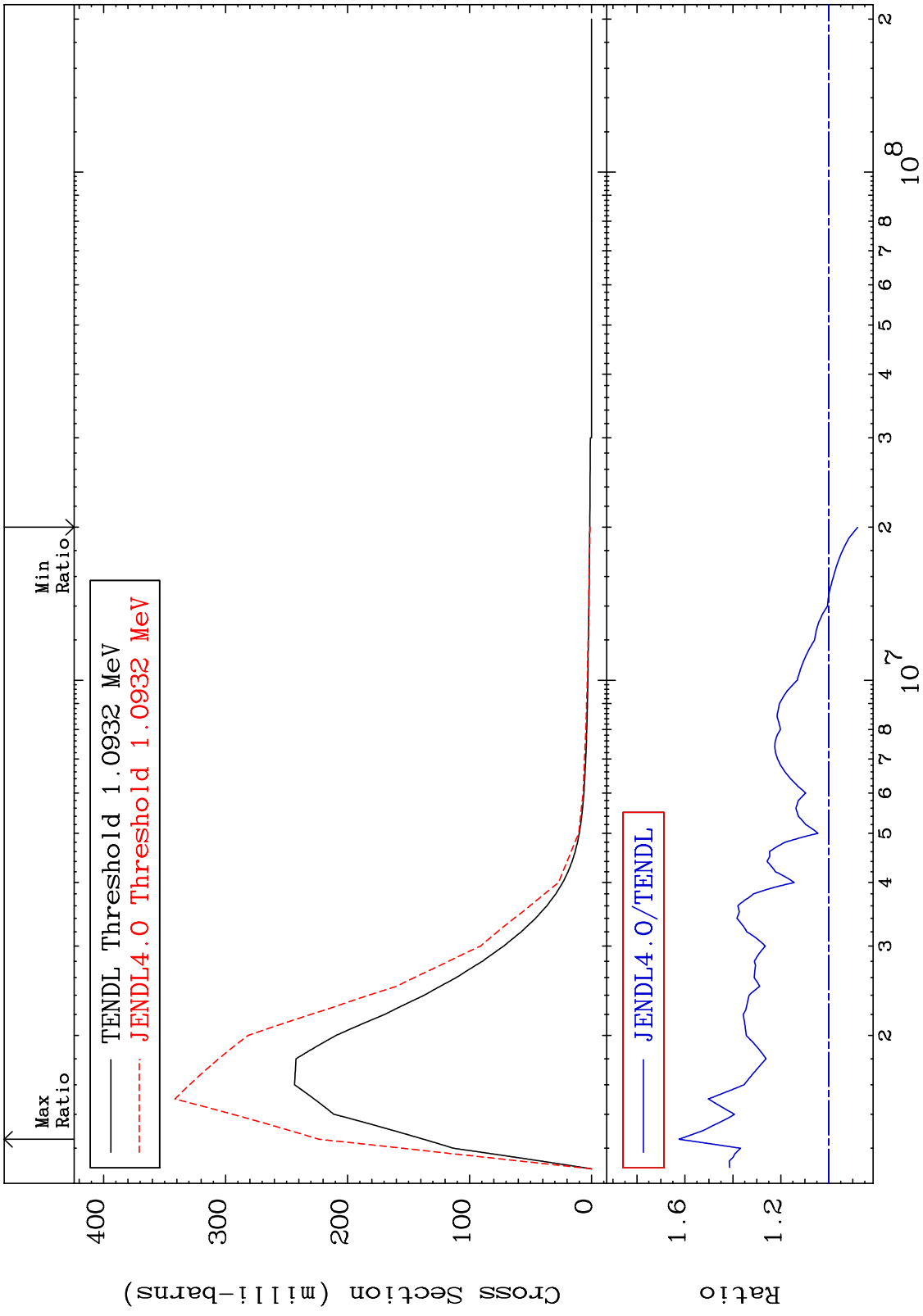
MAT 8031

MT= 52 (n,n') Level
Cross Section

80-Hg-198
-84.98 To 104.0 %

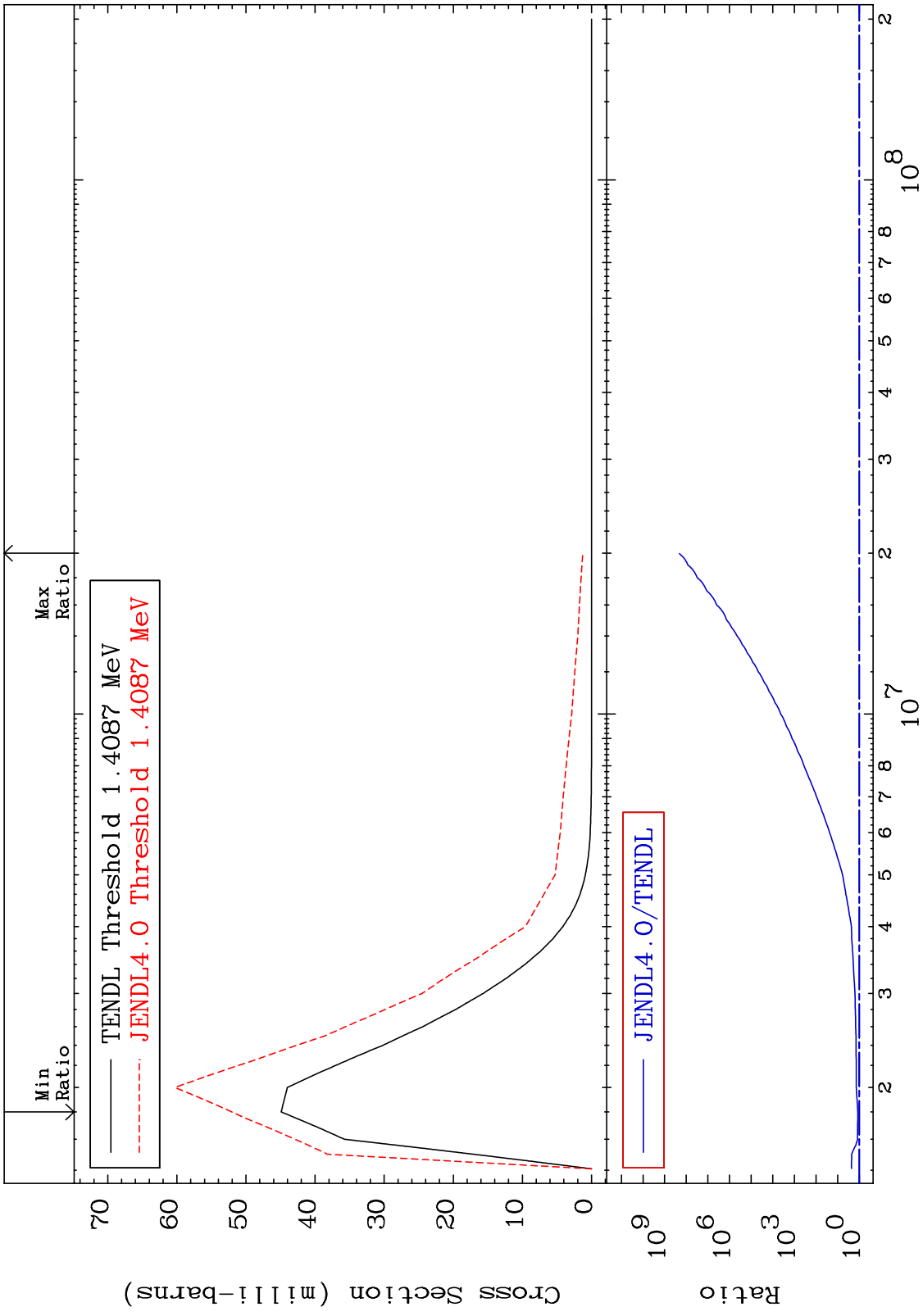


MAT 8031 MT= 53 (n,n') Level Cross Section 80-Hg-198
-12.11 To 62.44 %

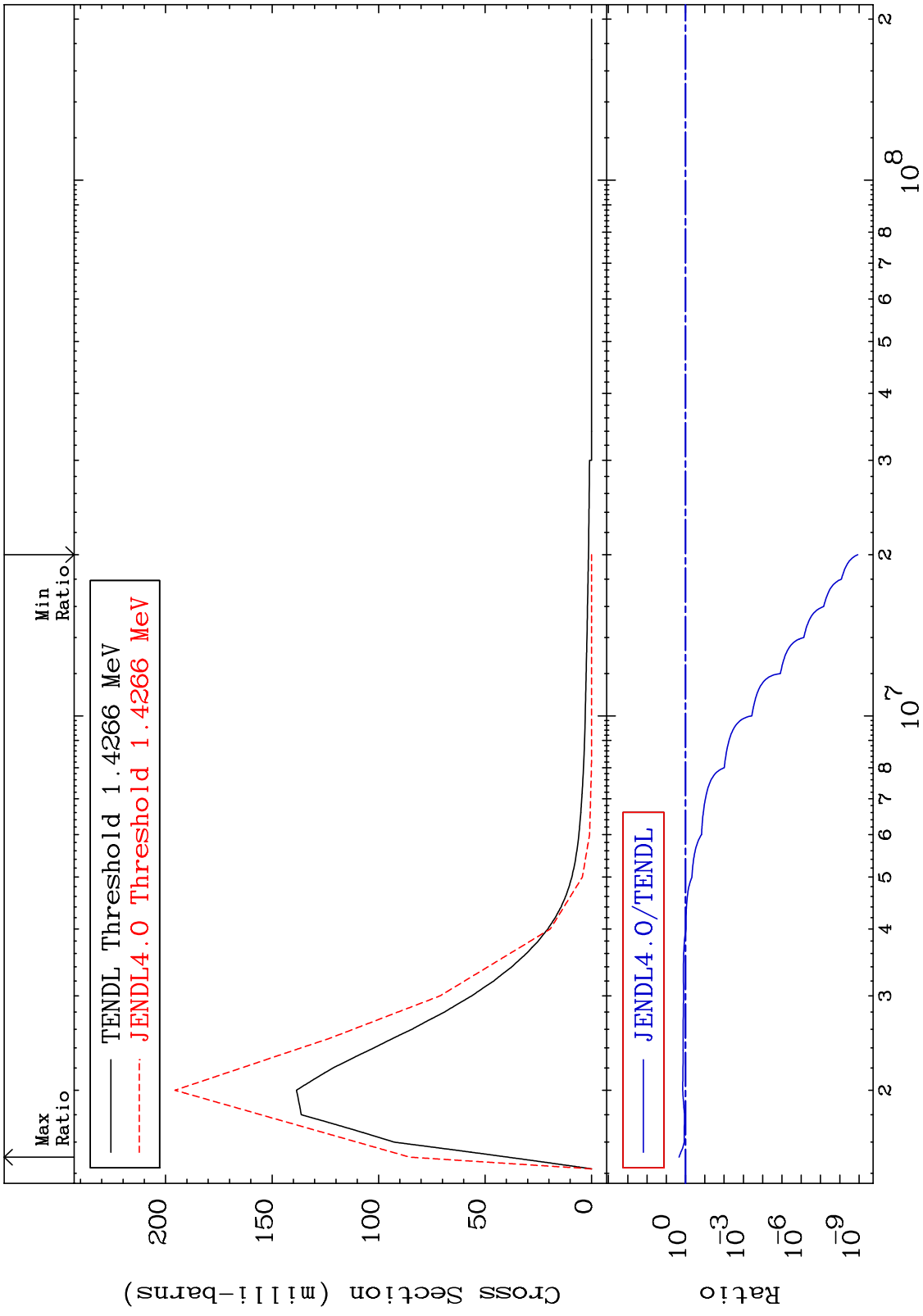


10 1.6 1.2 Ratio Incident Energy (eV) 80-Hg-198

MAT 8031 MT= 54 (n,n') Level Cross Section 80-Hg-198 To 9999. %
 15.89



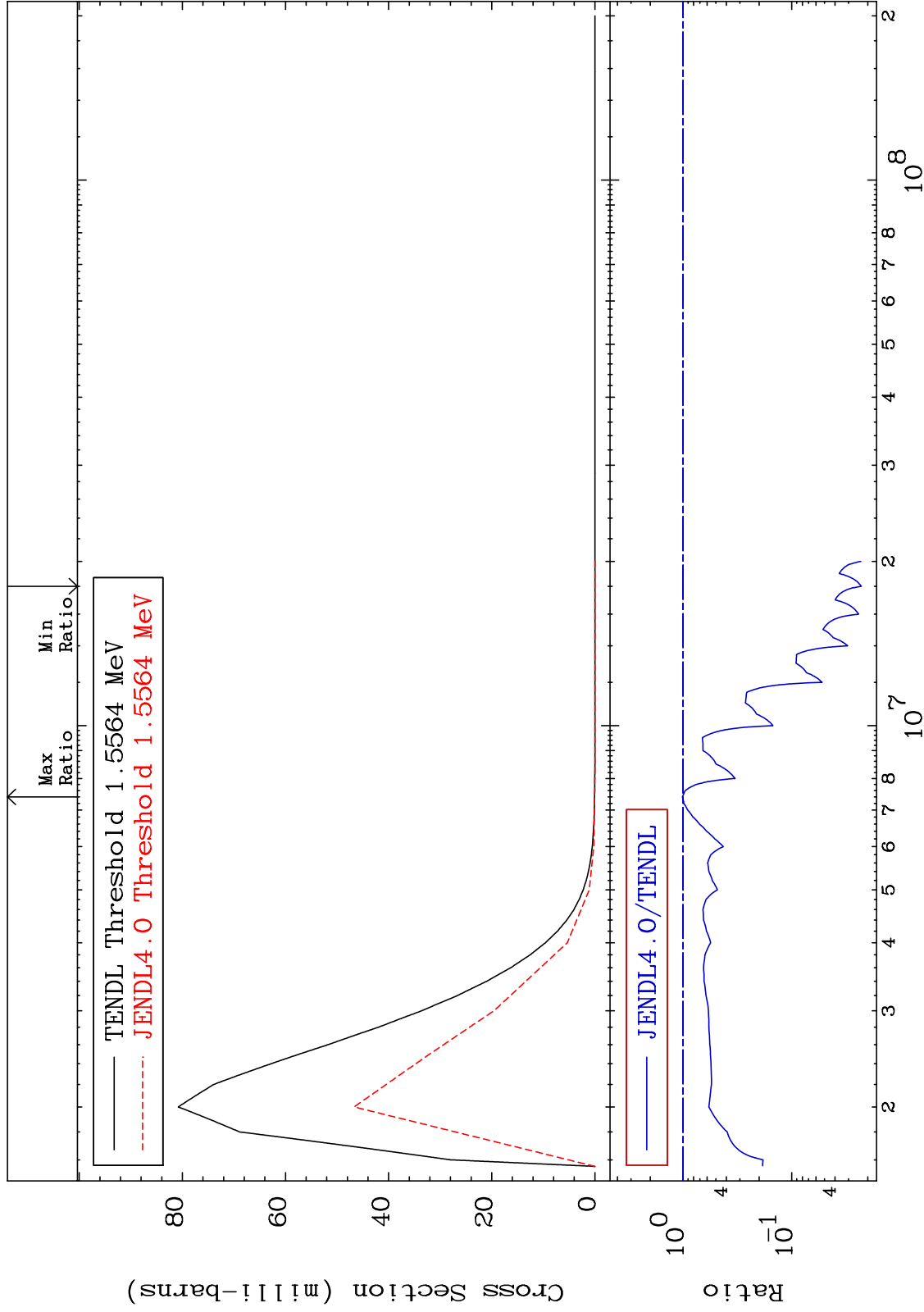
MAT 8031 MT= 55 (n,n') Level Cross Section 80-Hg-198
 -100.0 To 117.7 %



MAT 8031

MT= 56 (n,n') Level
Cross Section

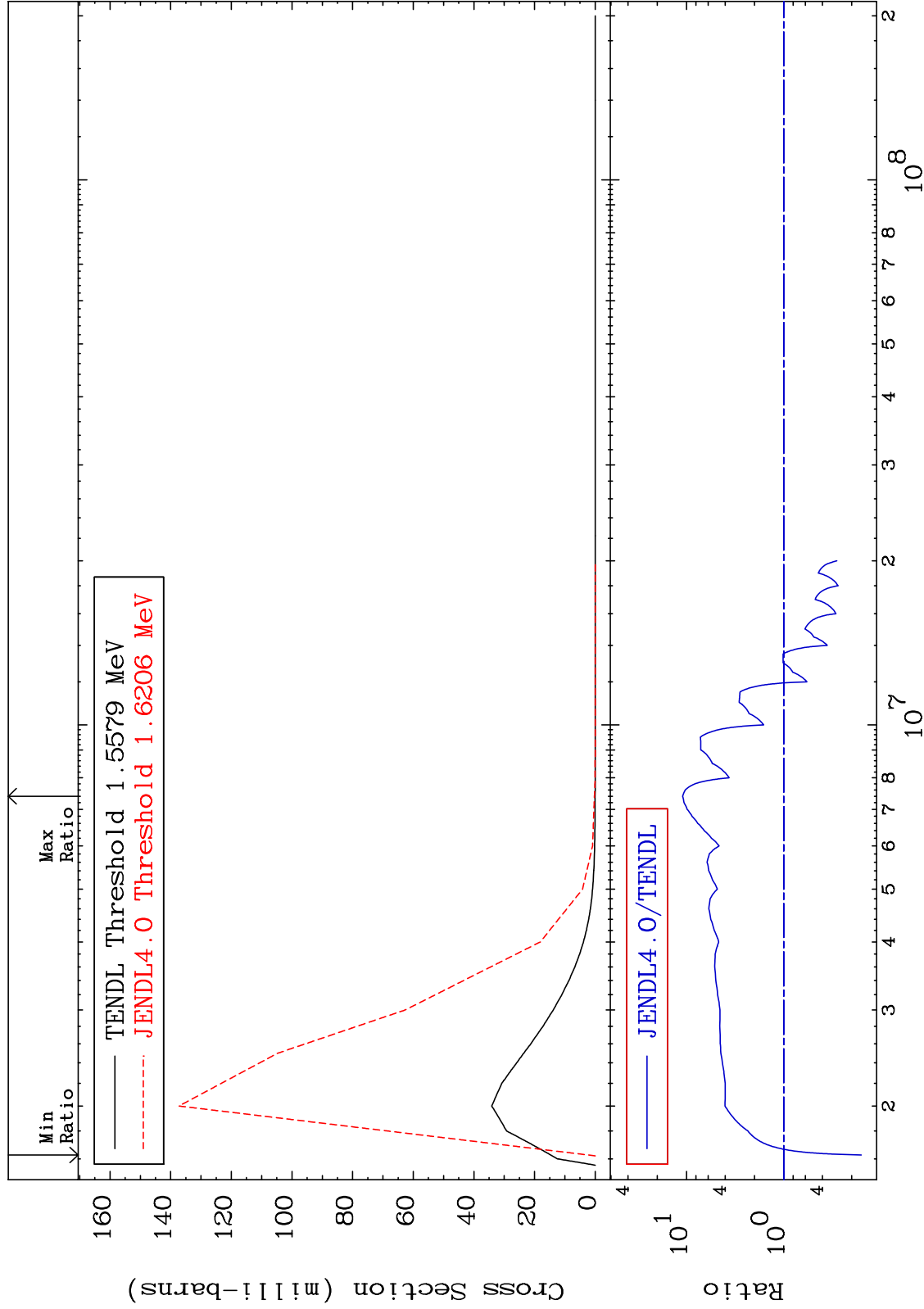
80-Hg-198
-97.70 To 1.167 %



MAT 8031

MT= 57 (n,n') Level
Cross Section

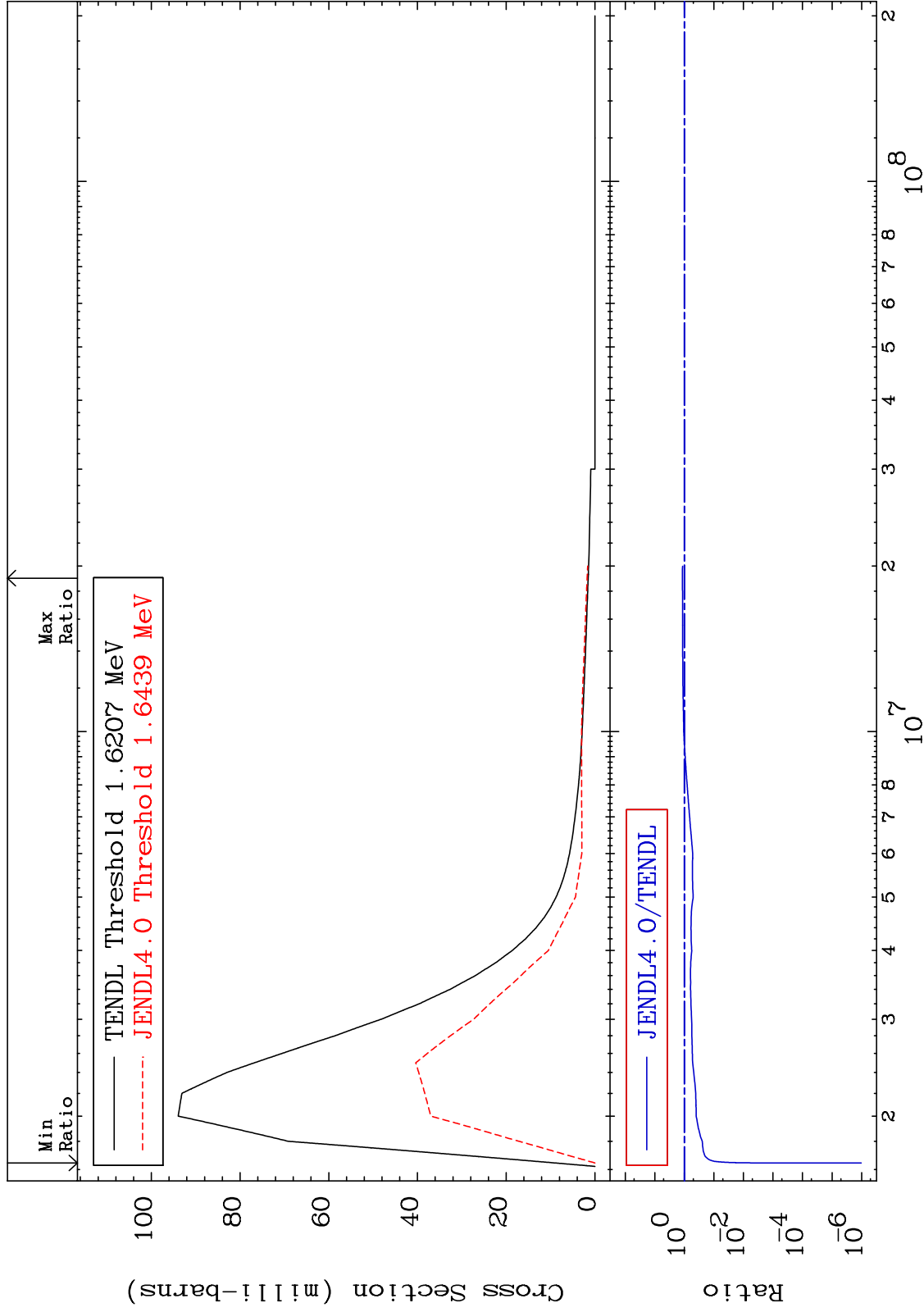
80-Hg-198
-84.06 To 997.0 %



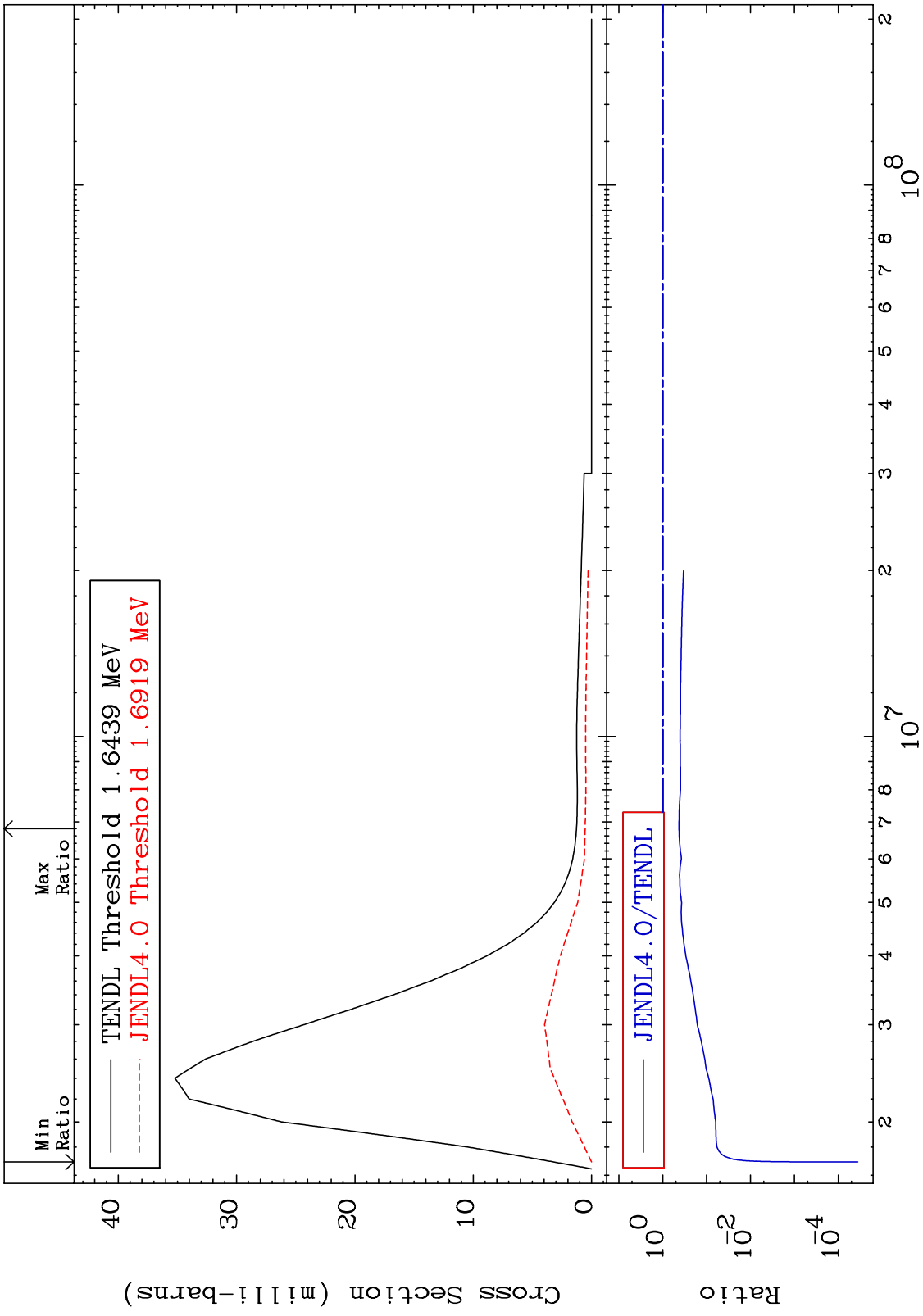
MAT 8031

MT= 58 (n,n') Level
Cross Section

80-Hg-198
-100.0 To 15.64 %



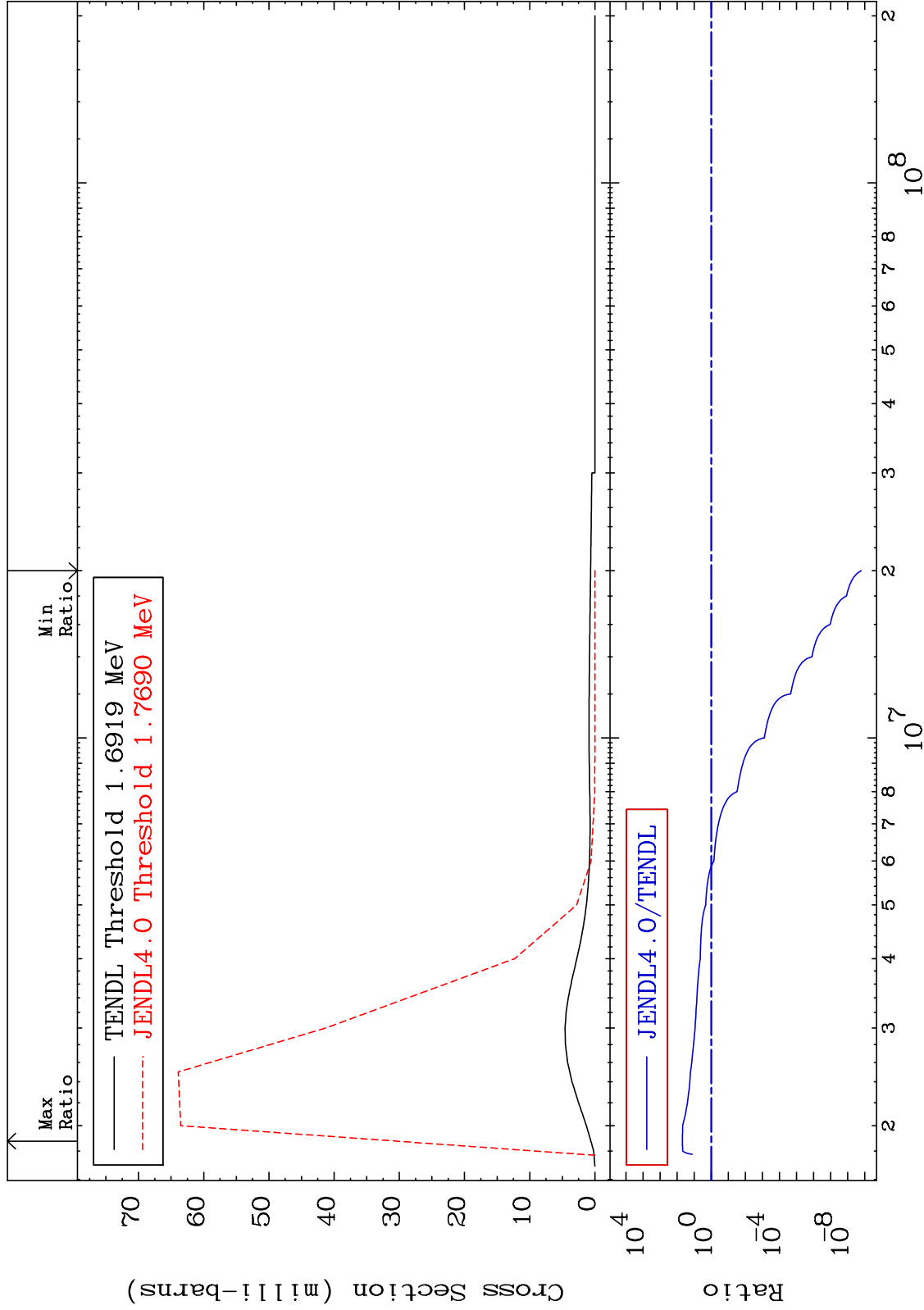
MAT 8031 MT= 59 (n,n') Level Cross Section 80-Hg-198
 -100.0 To -57.52%



MAT 8031

MT= 60 (n,n') Level
Cross Section

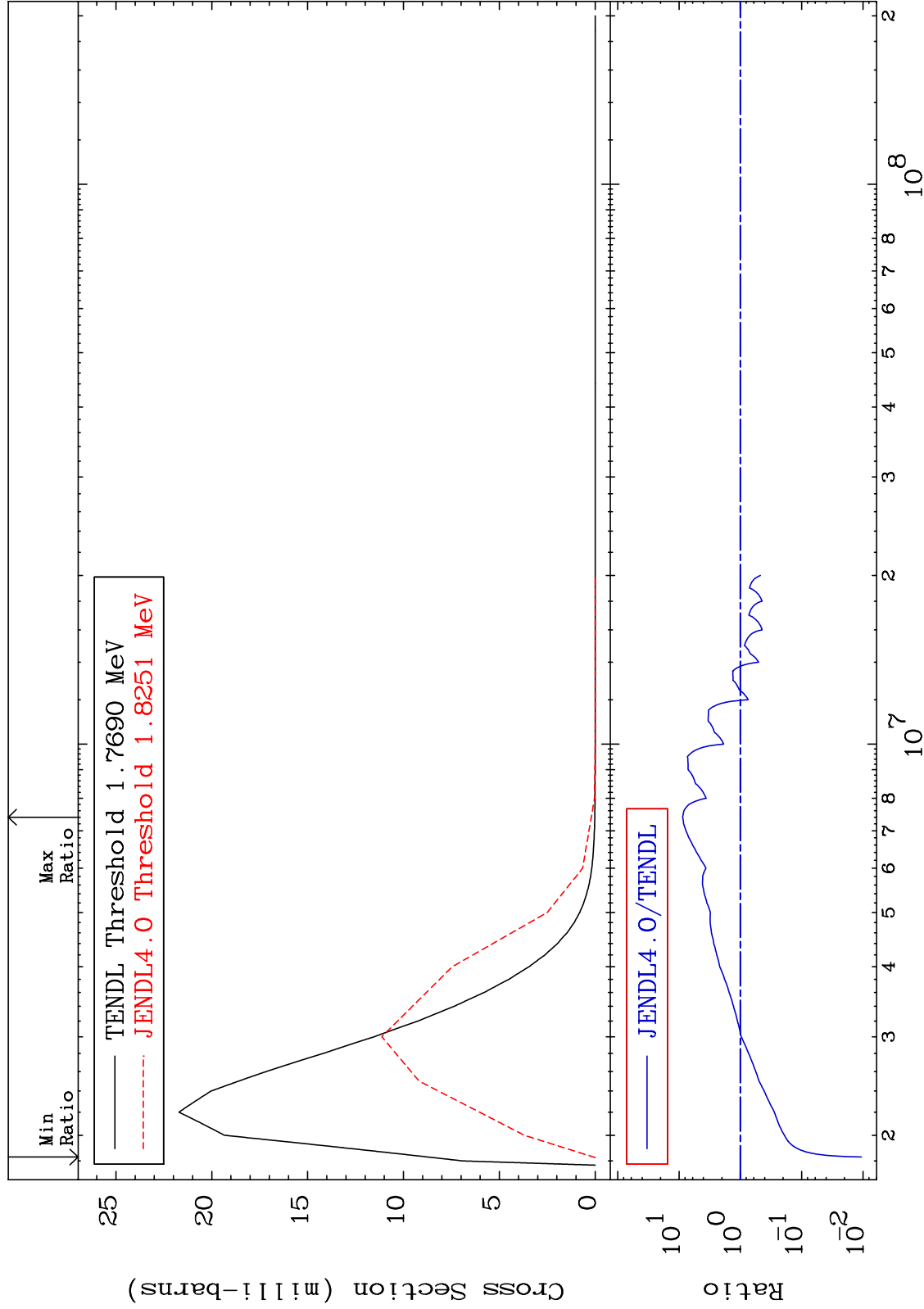
80-Hg-198
-100.0 To 4836. %



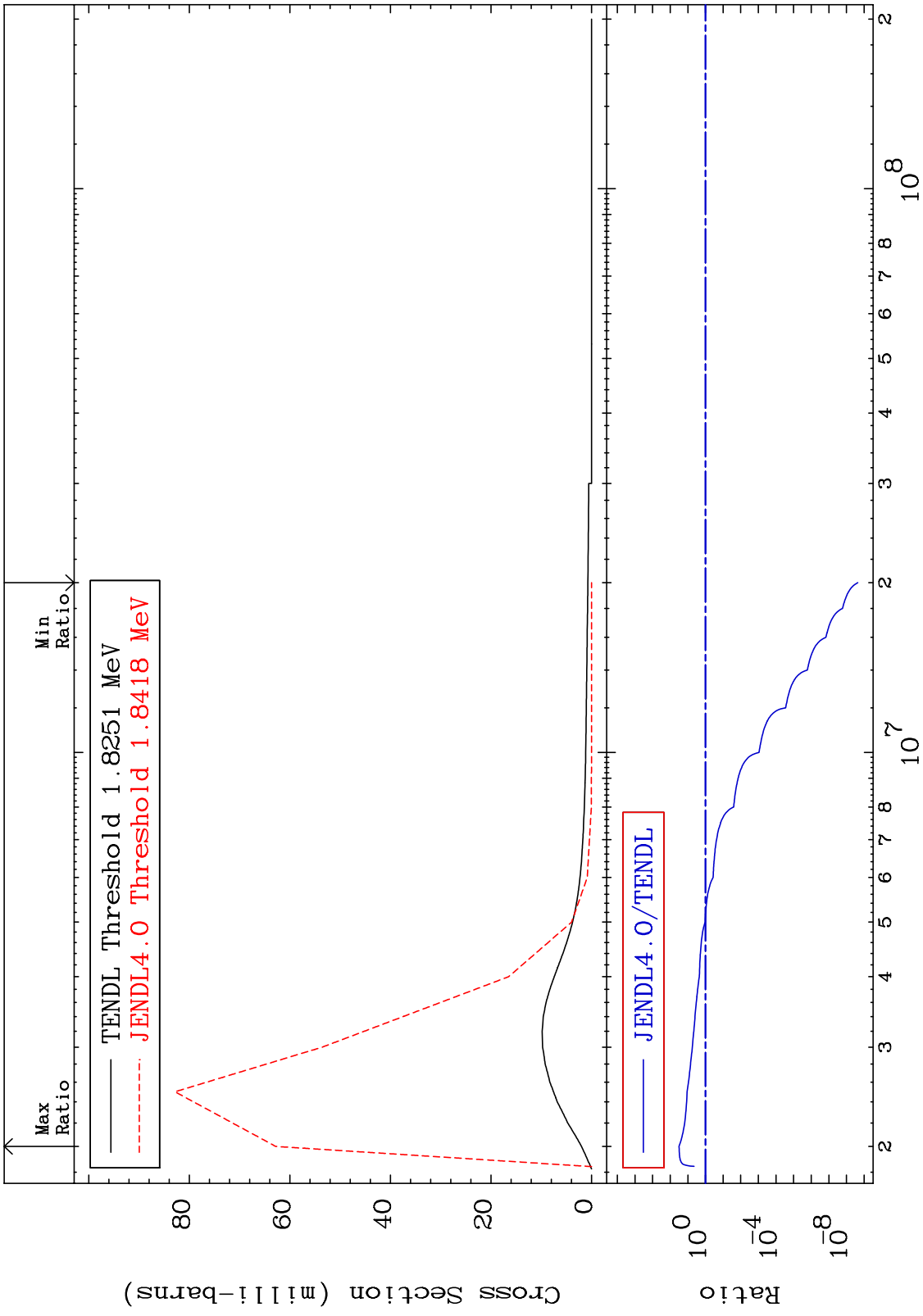
MAT 8031

MT= 61 (n,n') Level
Cross Section

80-Hg-198
-98.94 To 771.4 %



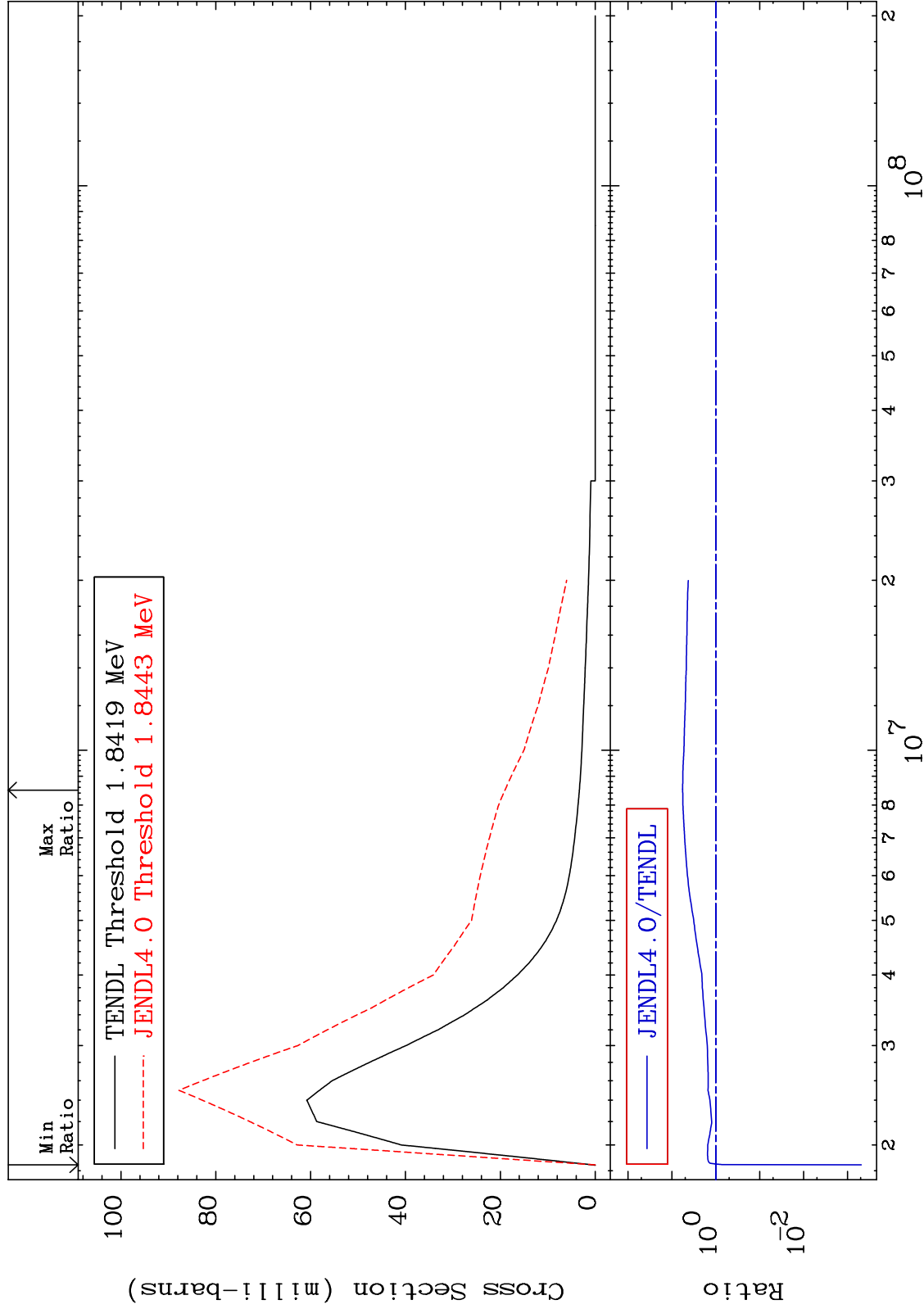
MAT 8031 MT= 62 (n,n') Level Cross Section -100.0 To 3057. % 80-Hg-198



MAT 8031

MT= 63 (n,n') Level
Cross Section

80-Hg-198
-99.95 To 470.6 %

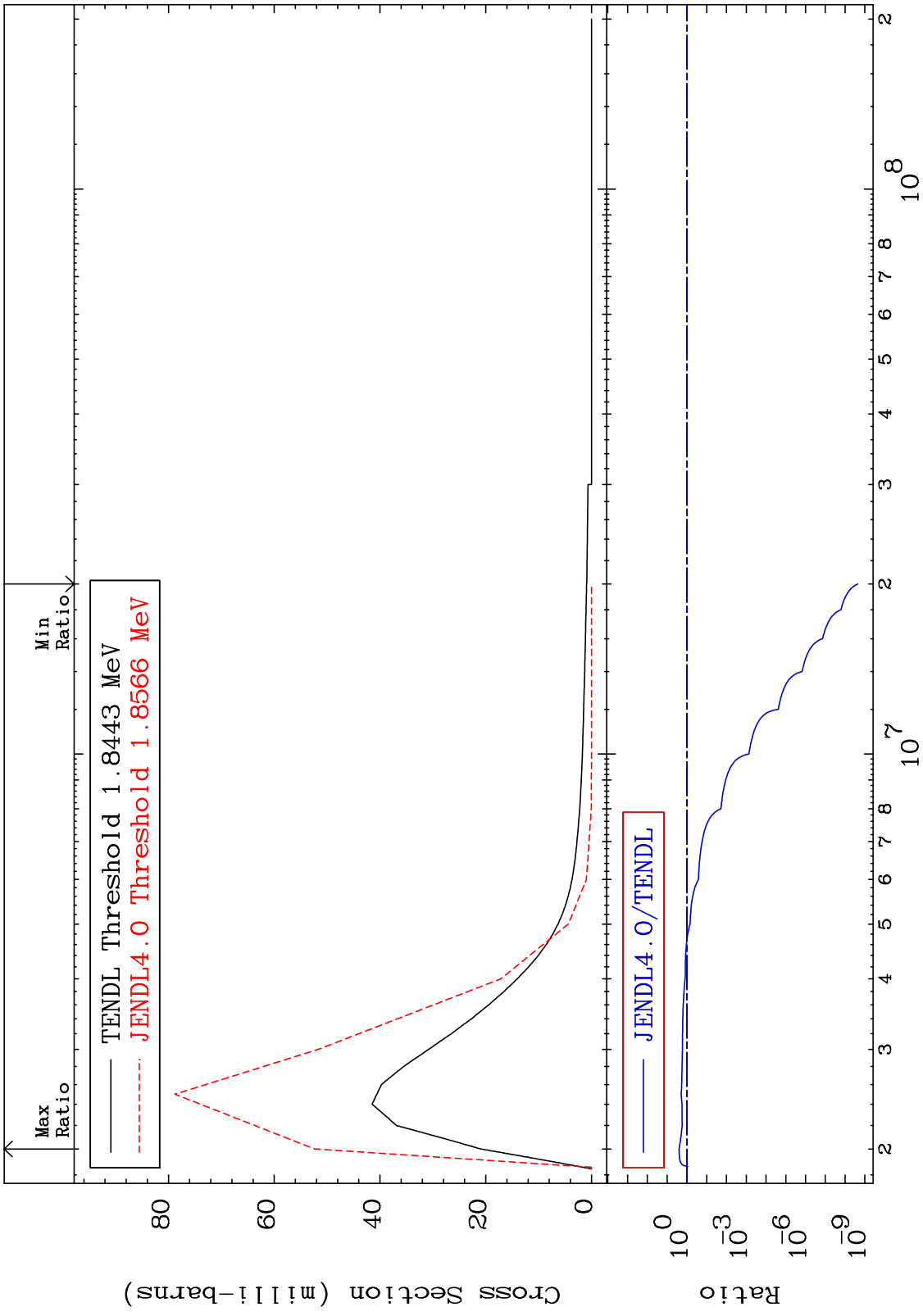


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Incident Energy (eV)

80-Hg-198

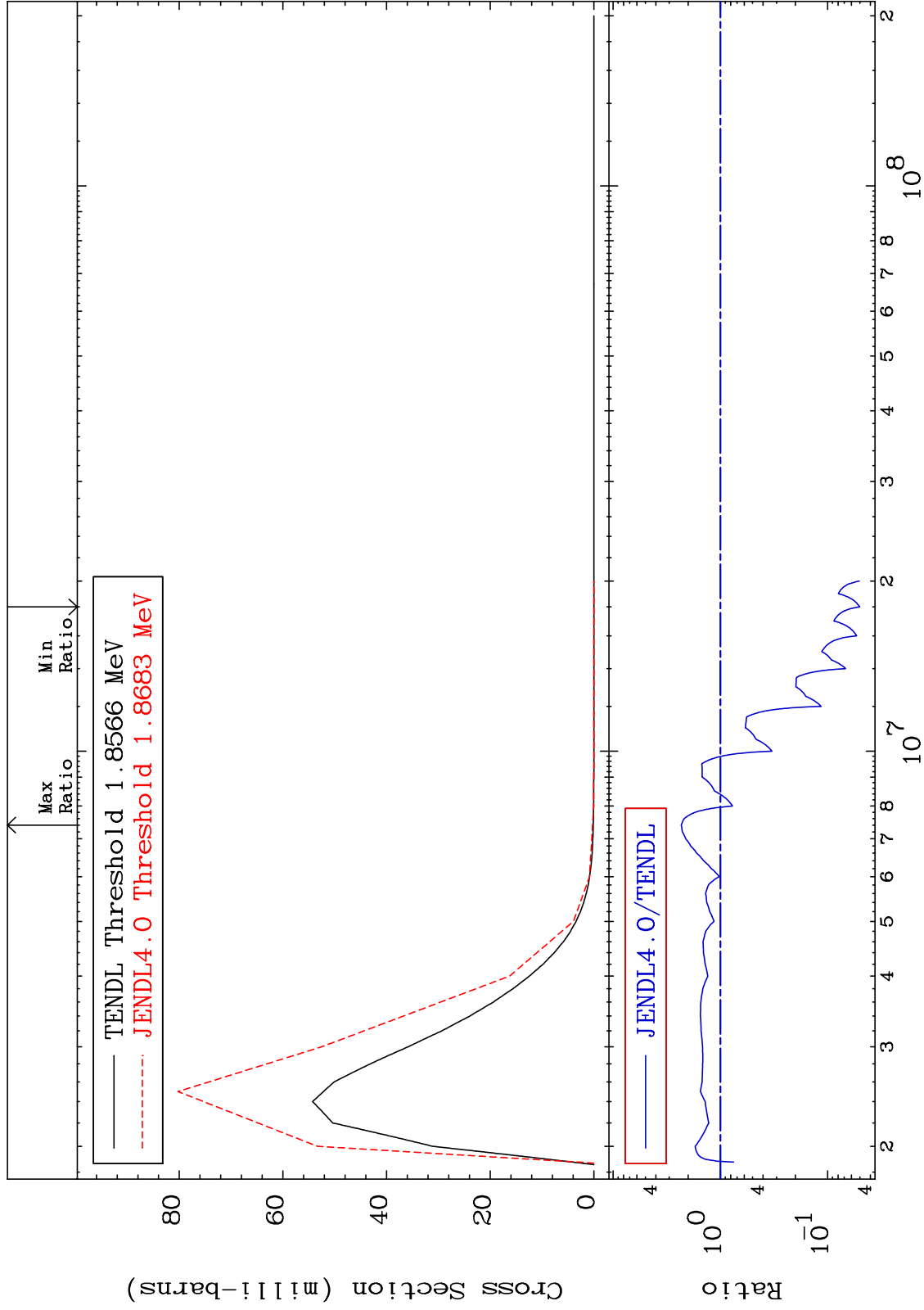
MAT 8031 MT= 64 (n,n') Level Cross Section -100.0 To 149.7 % 80-Hg-198



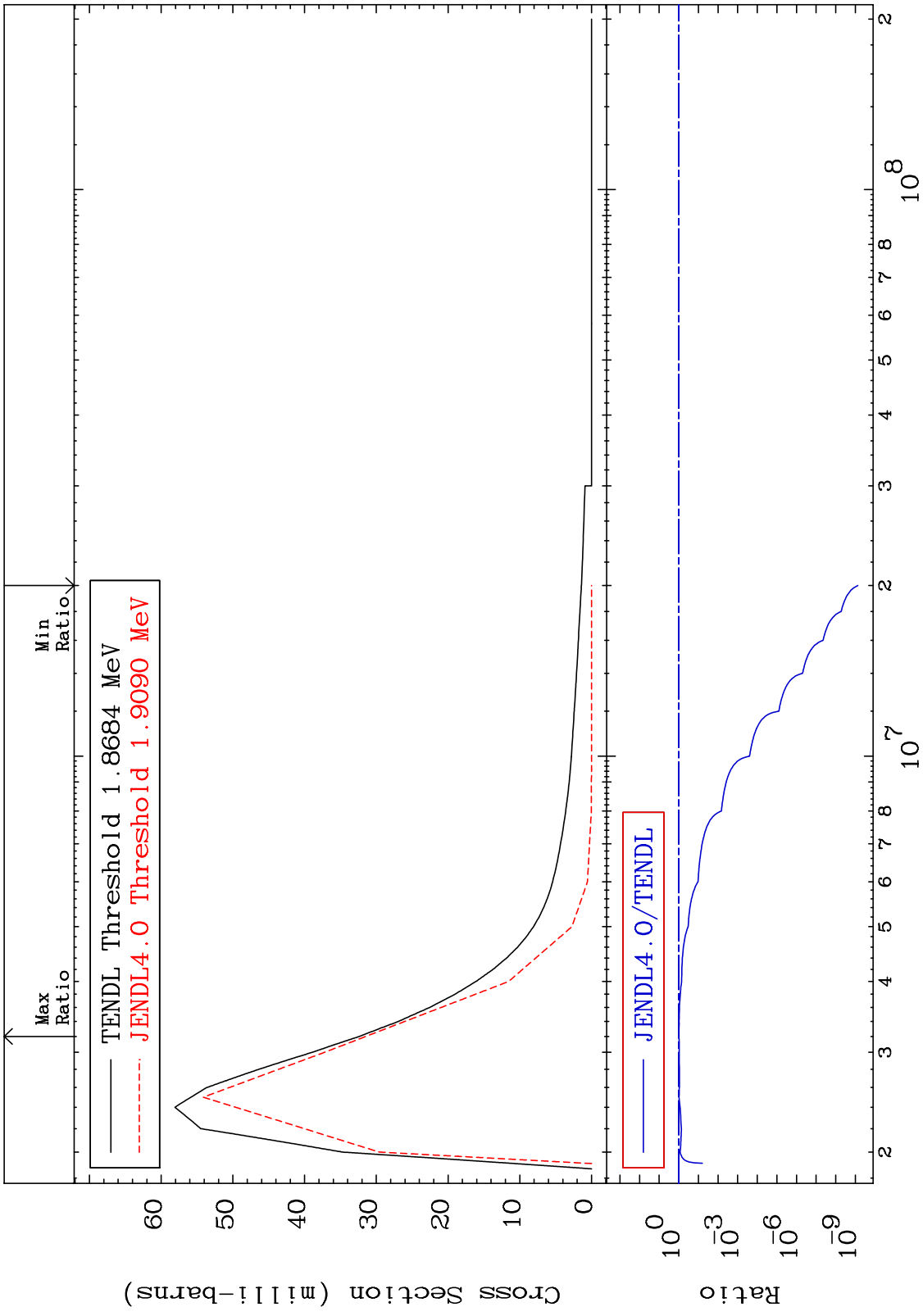
MAT 8031

MT= 65 (n,n') Level
Cross Section

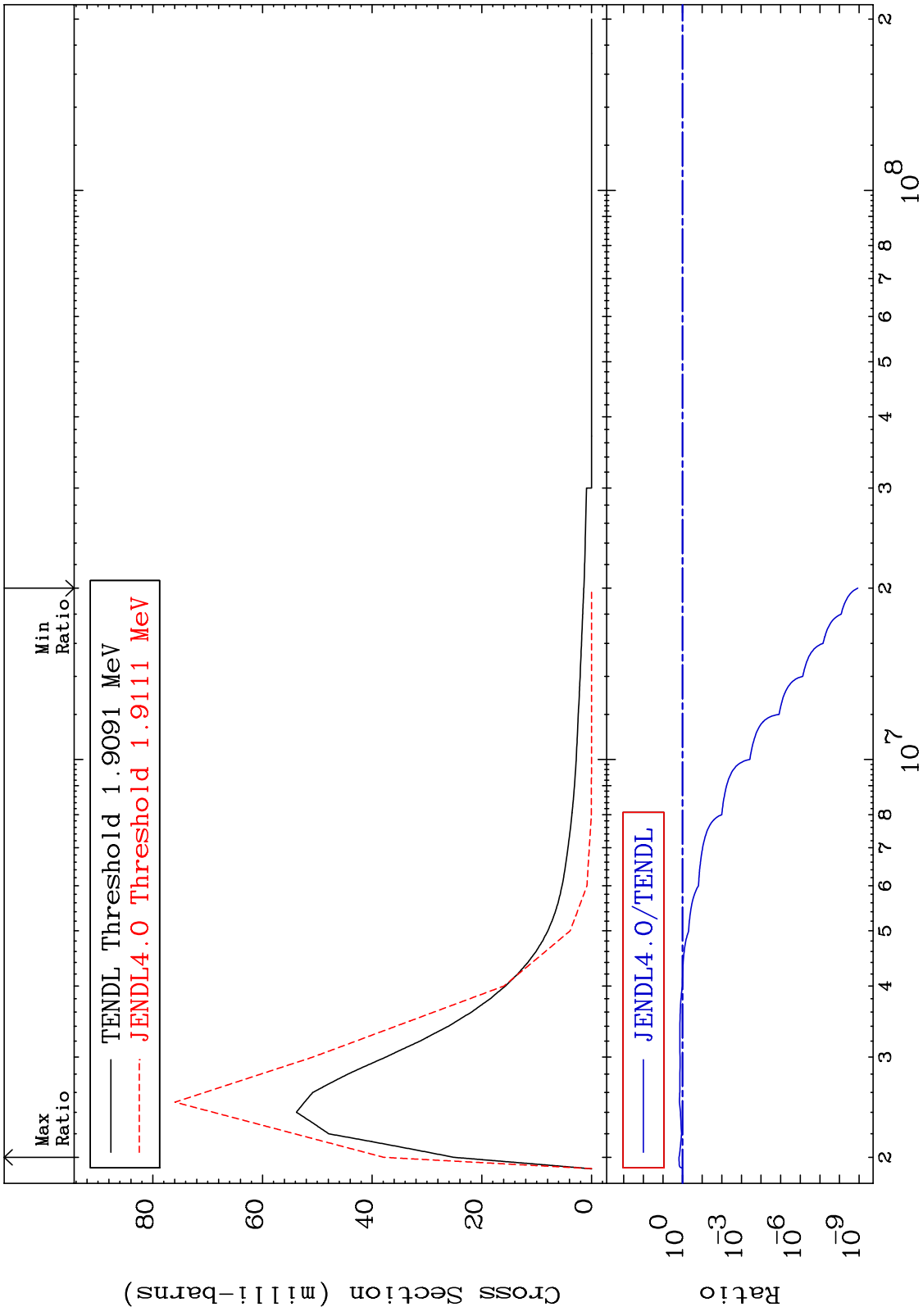
80-Hg-198
-94.98 To 131.6 %



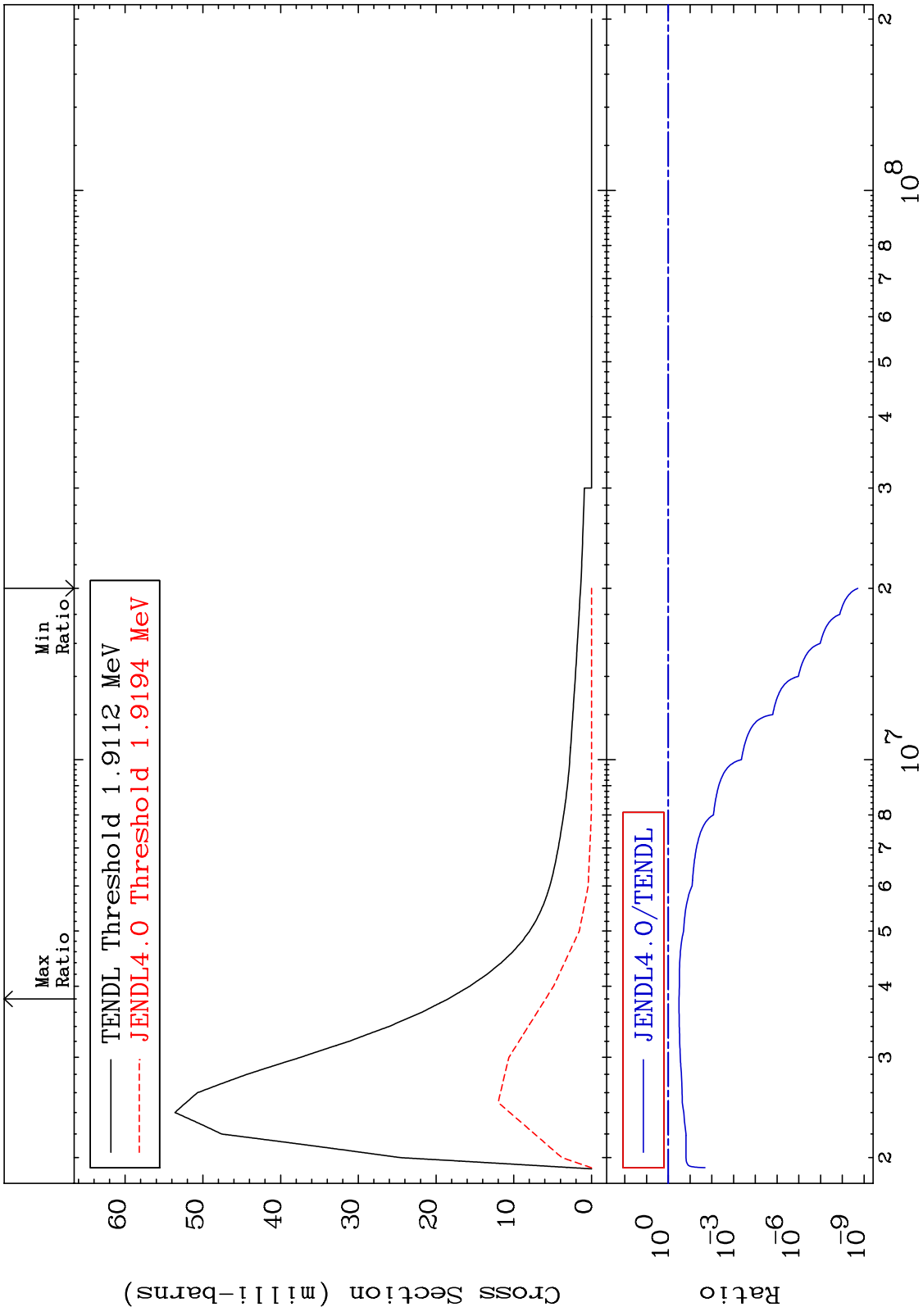
MAT 8031 MT= 66 (n,n') Level Cross Section 80-Hg-198
 -100.0 To -2.802%



MAT 8031 MT= 67 (n,n') Level Cross Section 80-Hg-198
 -100.0 To 50.90 %



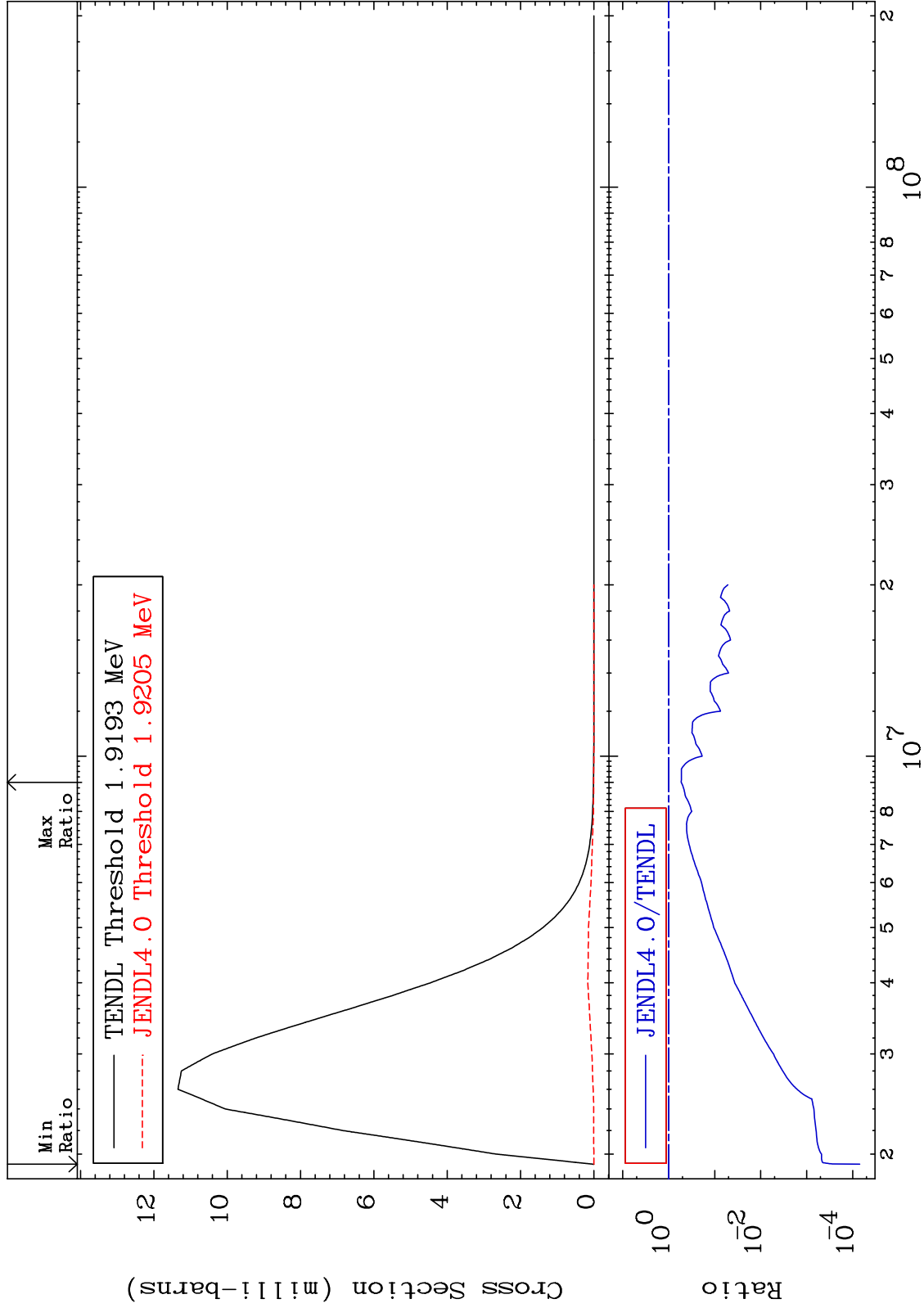
MAT 8031 MT= 68 (n,n') Level Cross Section -100.0 To -67.92% 80-Hg-198



MAT 8031

MT= 69 (n,n') Level
Cross Section

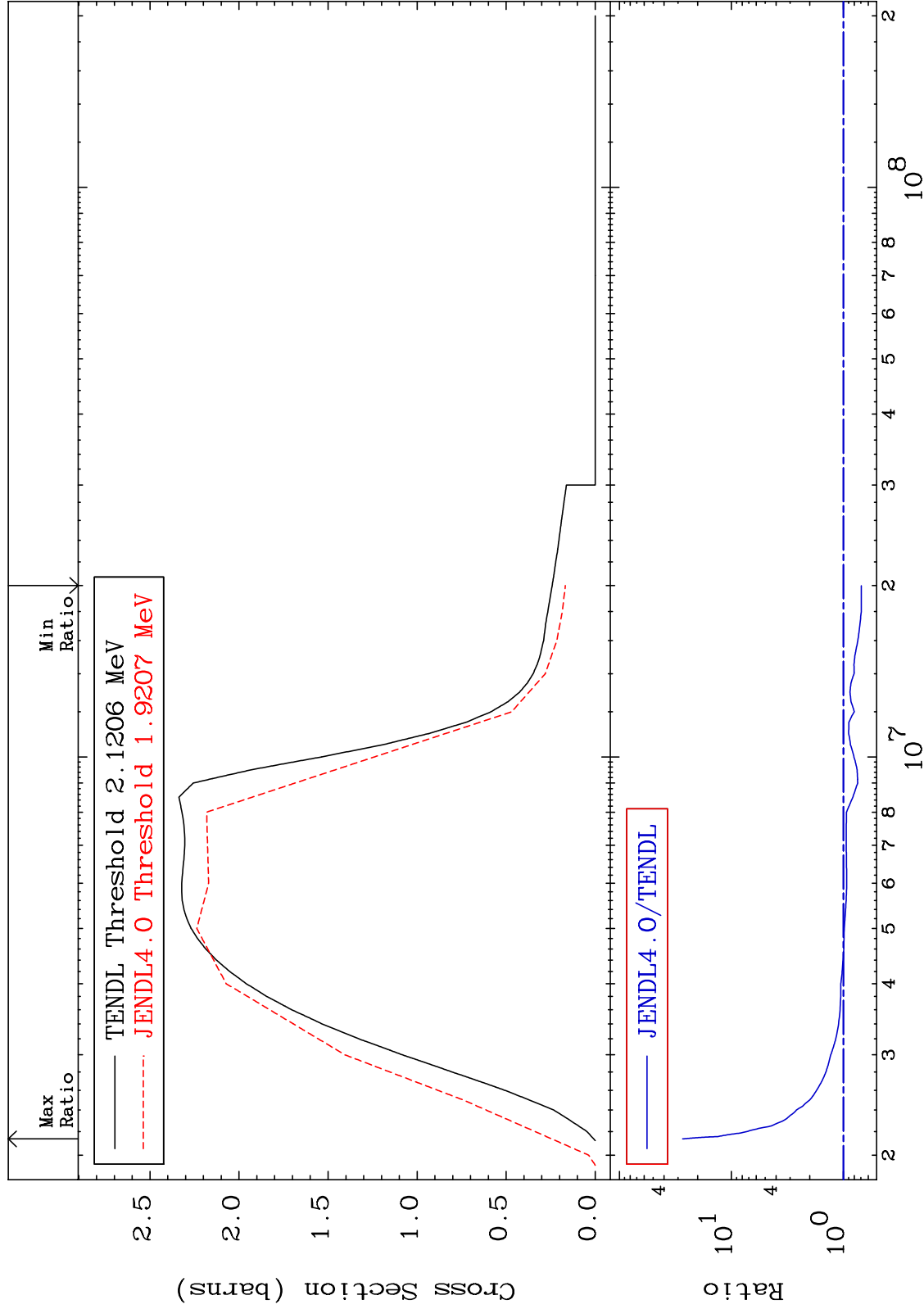
80-Hg-198
-99.99 To -46.61%



MAT 8031

(n, n') Continuum
Cross Section

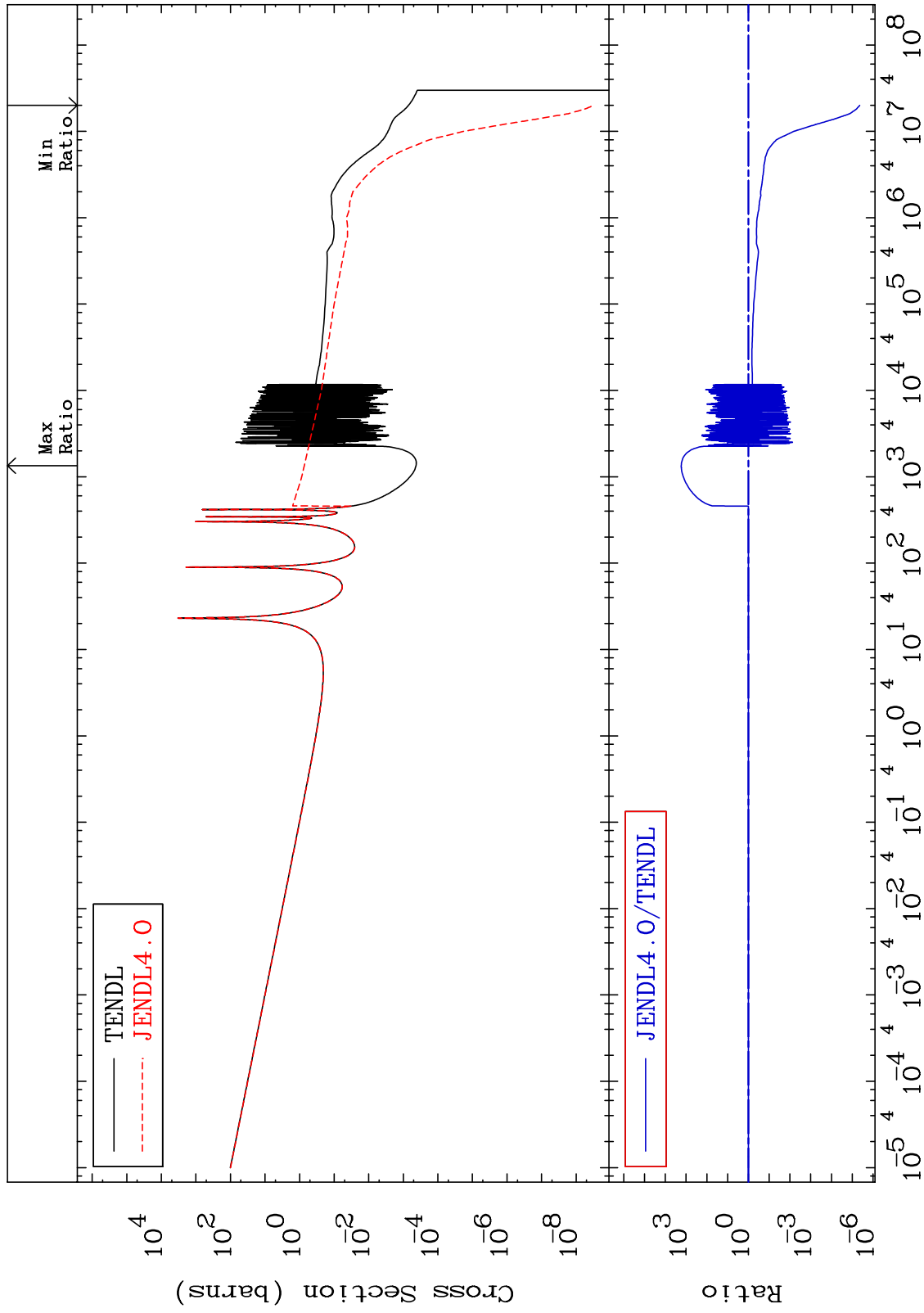
80-Hg-198
-30.71 To 2623. %



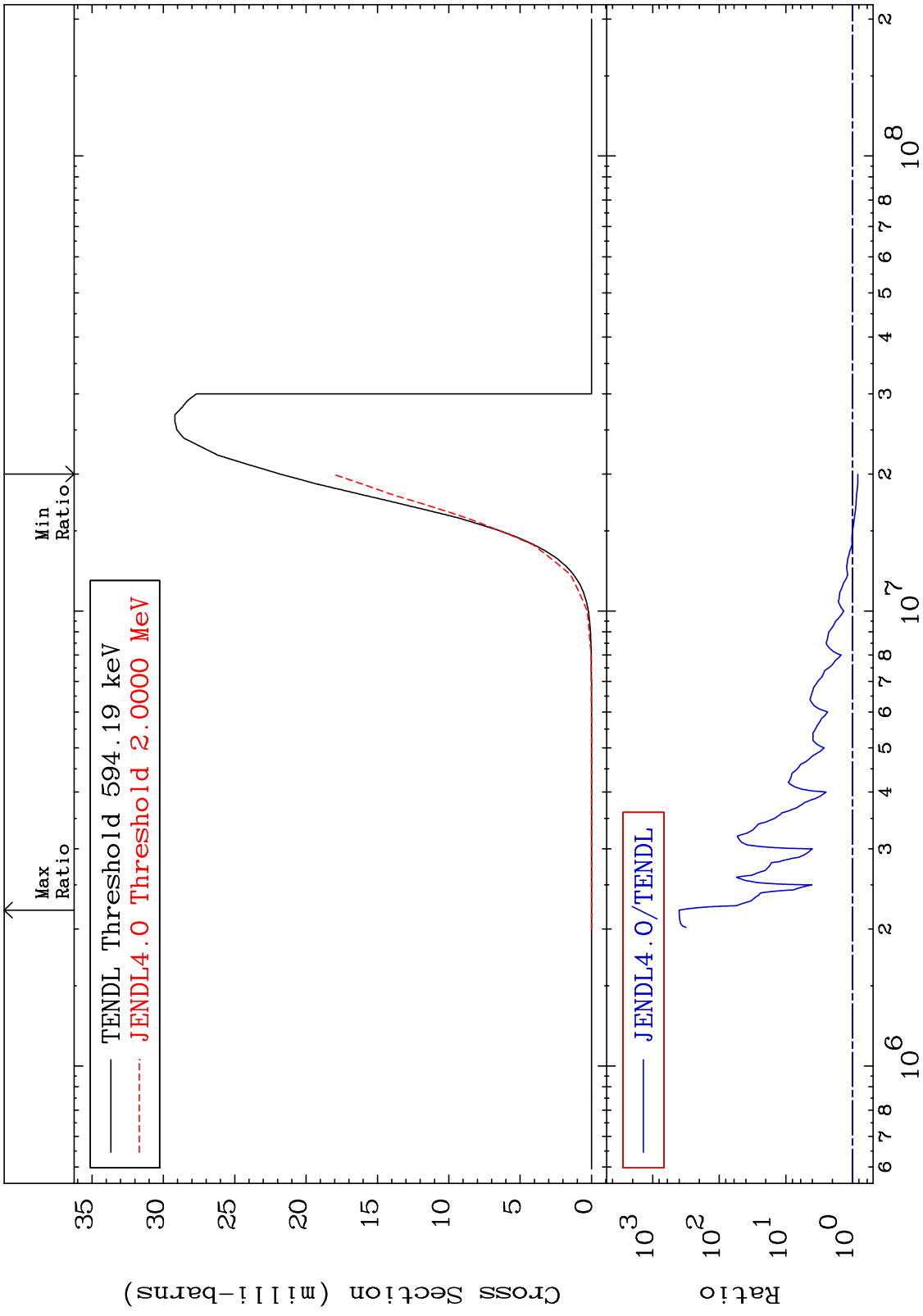
MAT 8031

80-Hg-198

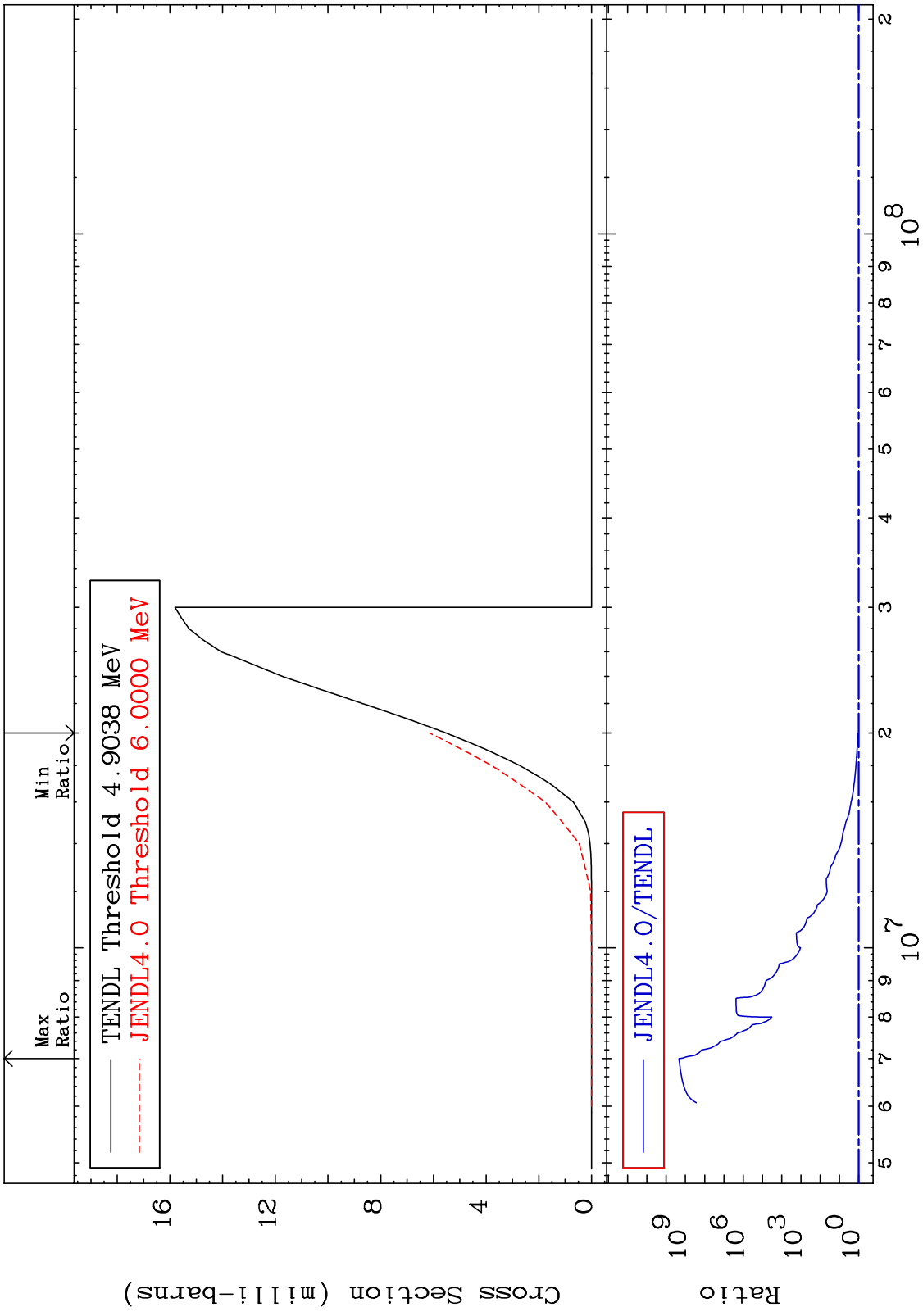
(n, γ)
Cross Section
-100.0 To 9999. %



MAT 8031 (n,p) Cross Section 80-Hg-198
 -16.84 To 9999. %



MAT 8031 (n,d) Cross Section 80-Hg-198 To 9999. %
 11.29



30 Incident Energy (eV) 80-Hg-198

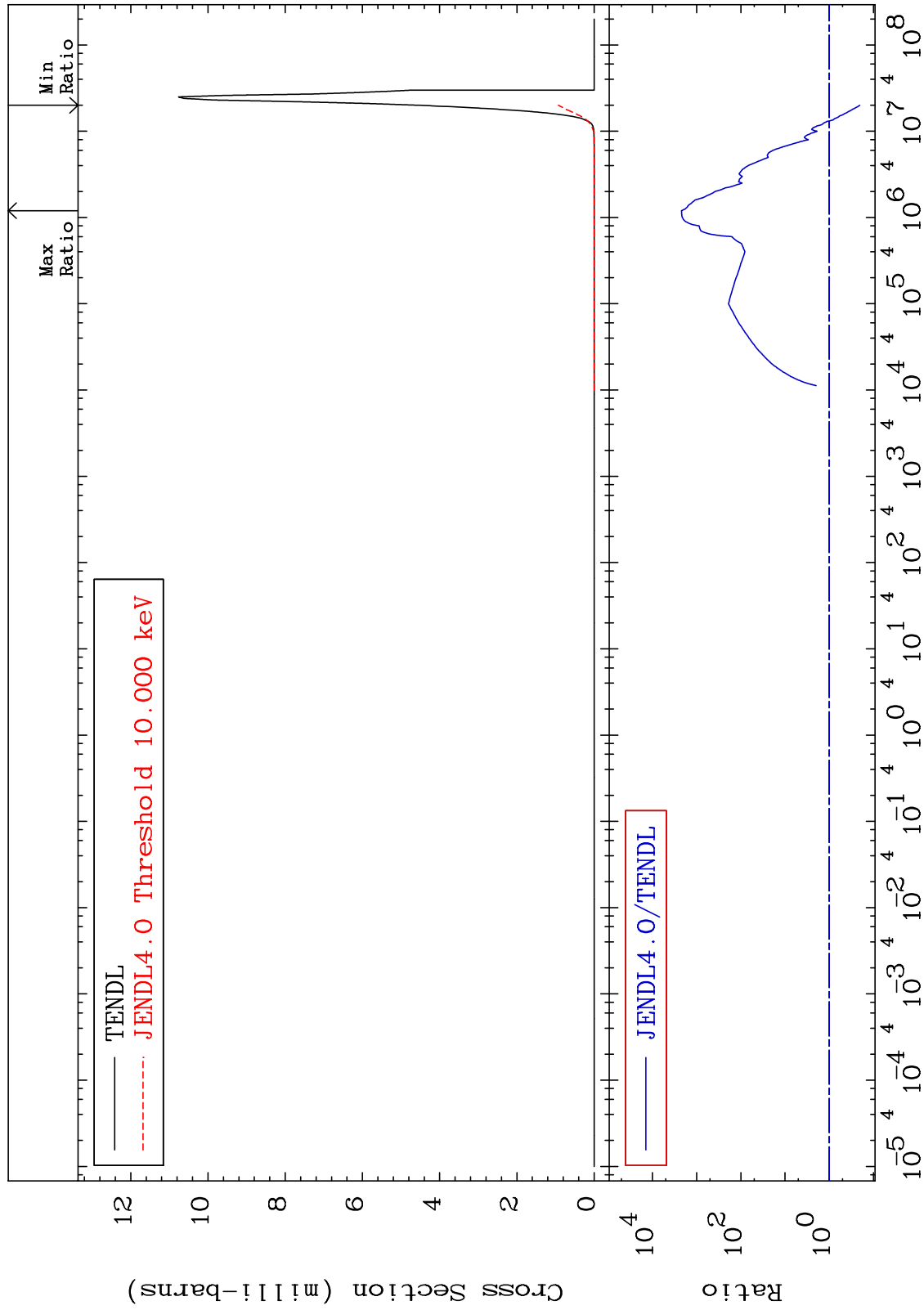
MAT 8031

(n, α)

80-Hg-198

Cross Section

-79.62 To 9999. %



31

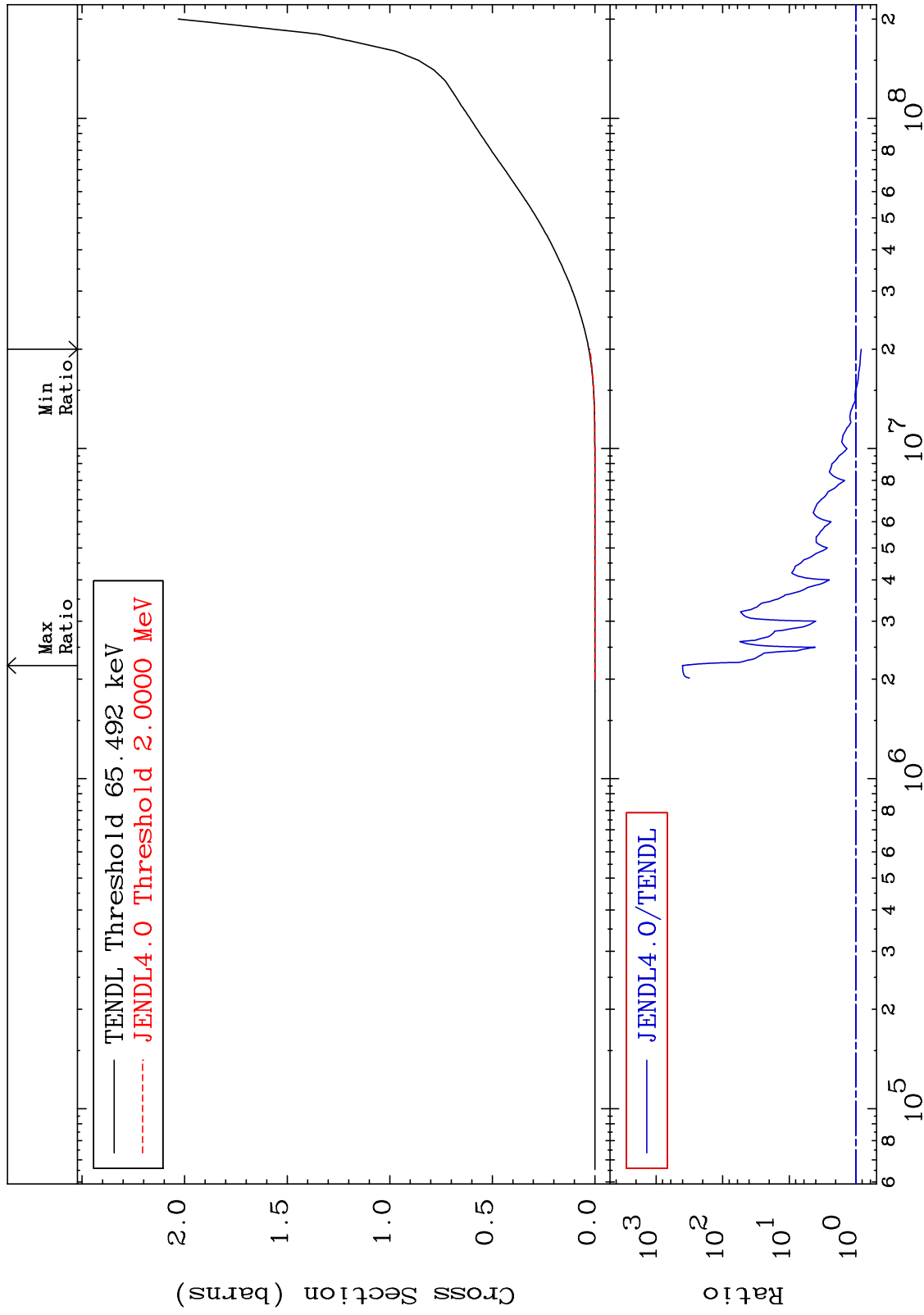
Incident Energy (eV)

80-Hg-198

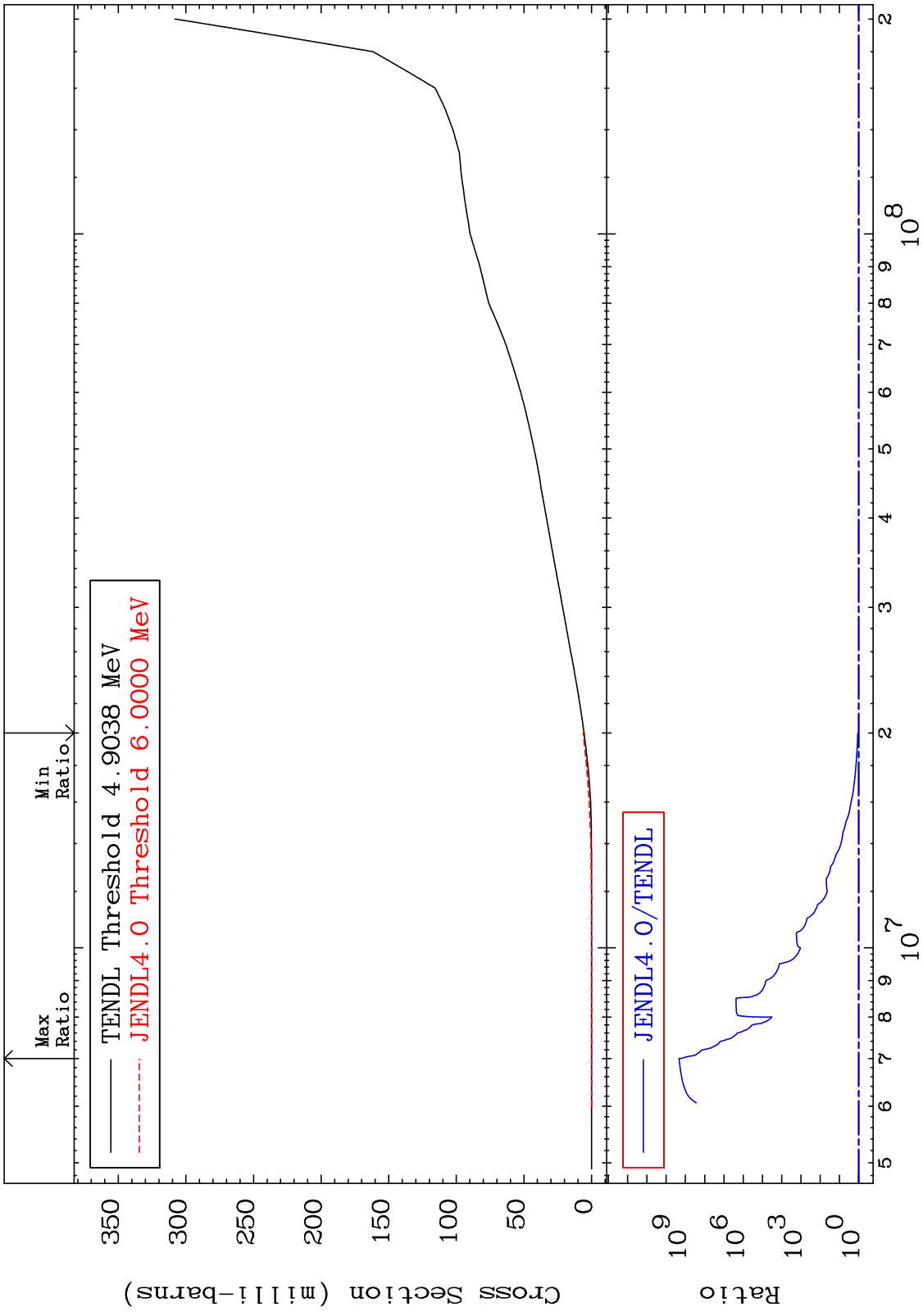
MAT 8031

Hydrogen Production
Cross Section

80-Hg-198
-17.45 To 9999. %



MAT 8031 Deuterium Production Cross Section 80-Hg-198 To 9999. %
 11.28

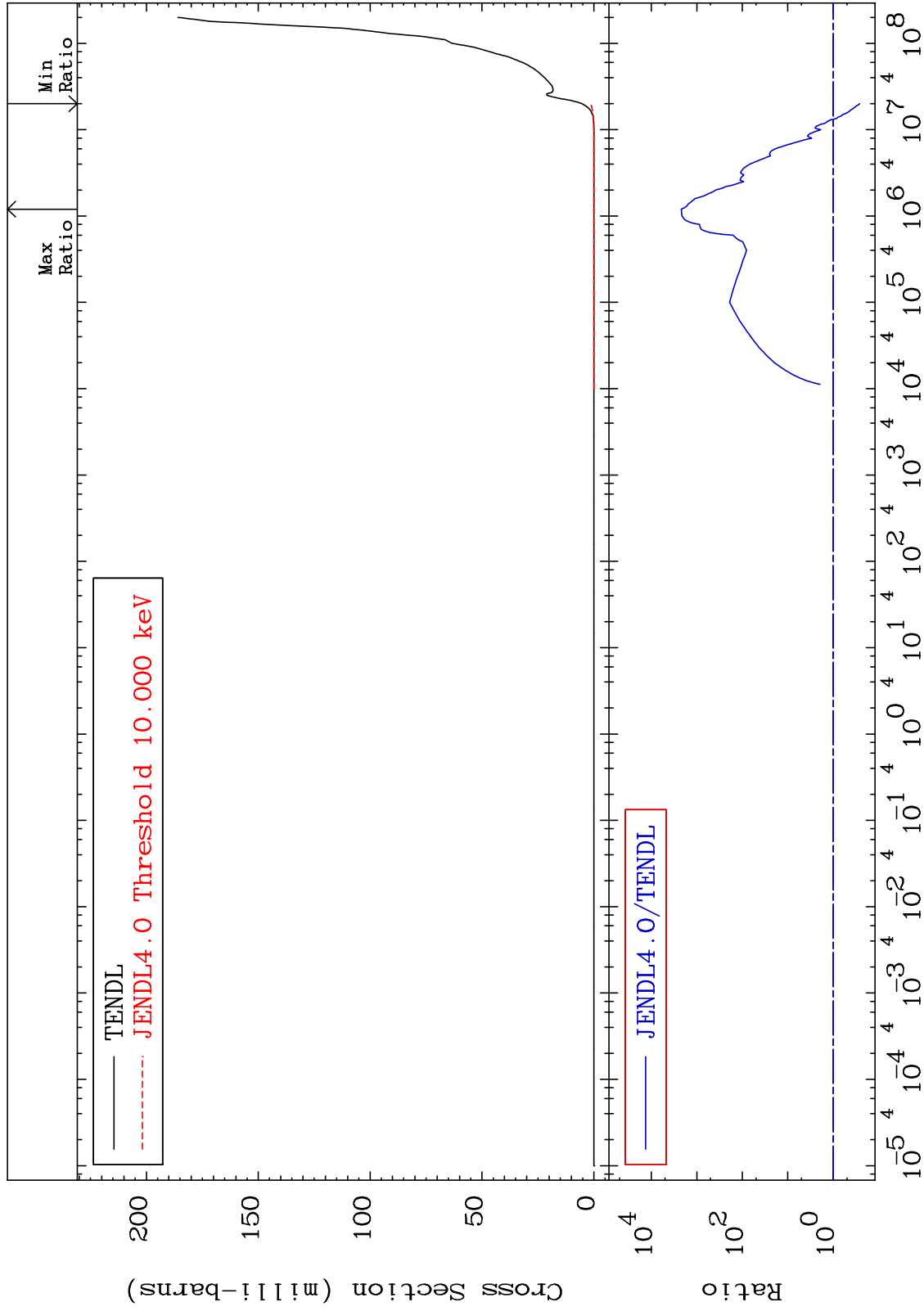


33 80-Hg-198 Incident Energy (eV)

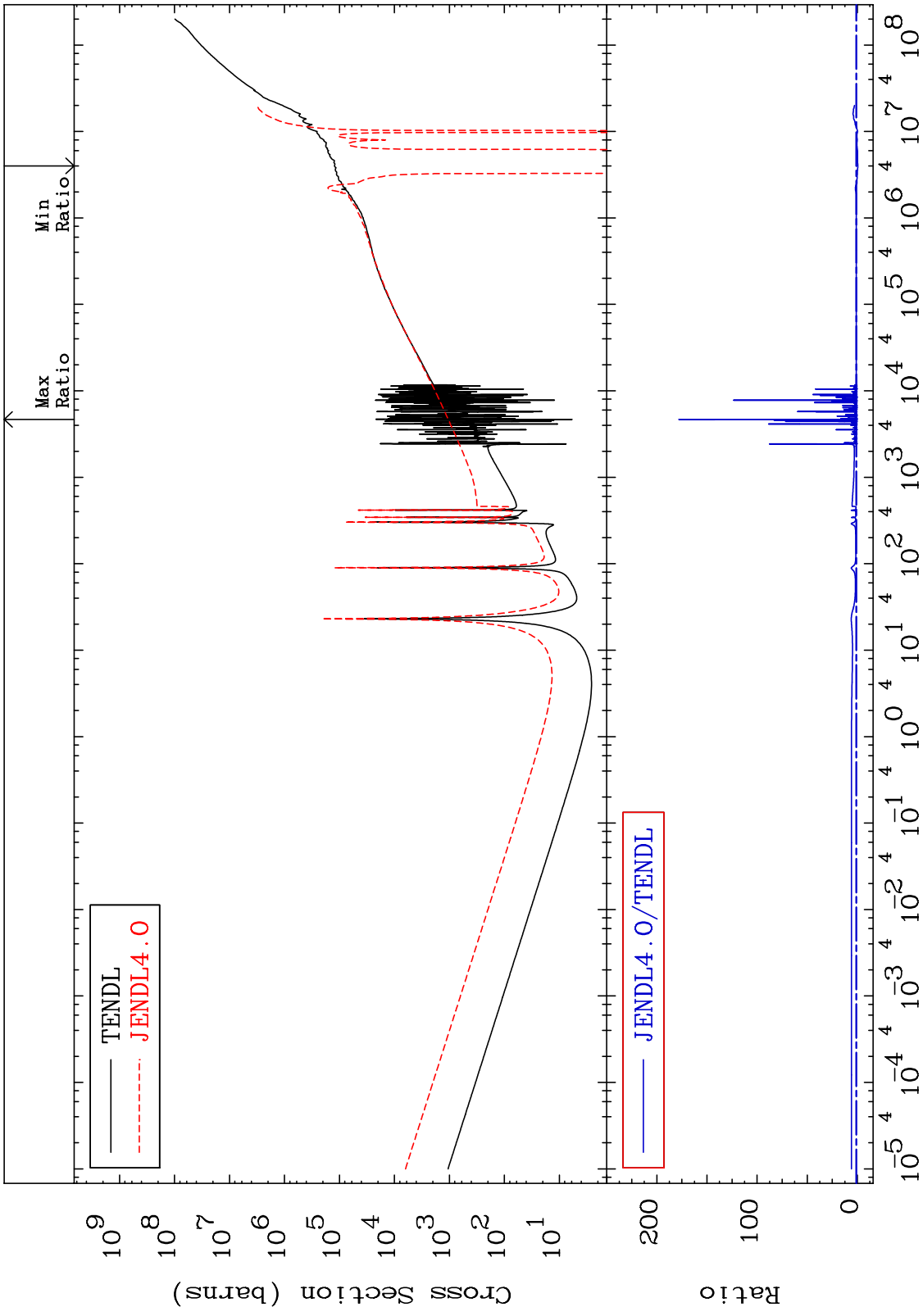
MAT 8031

He-4 Production
Cross Section

80-Hg-198
-73.84 To 9999. %



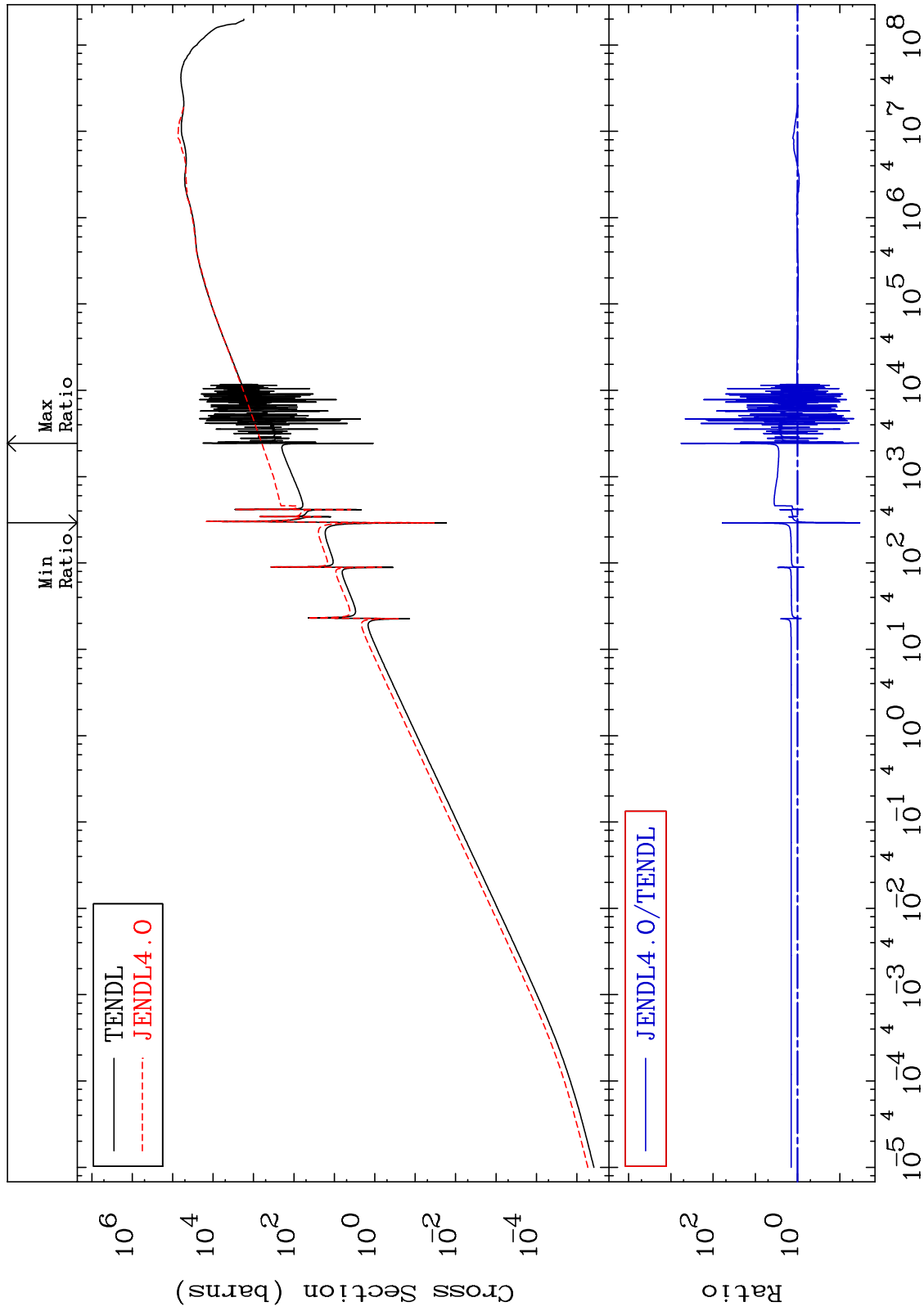
MAT 8031 Kerma total (eV-barns) Cross Section 80-Hg-198
 -151.1 To 9999. %



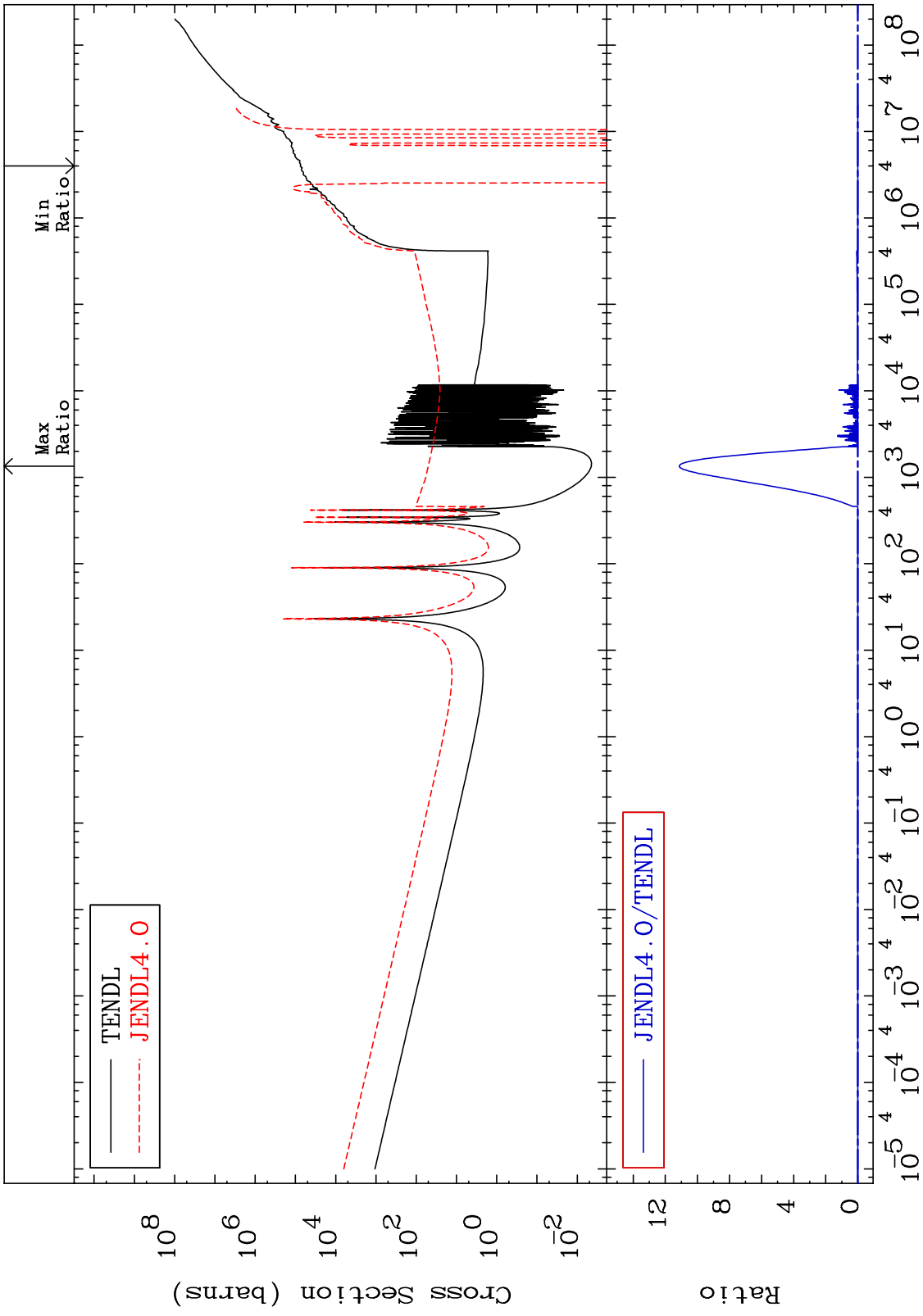
MAT 8031

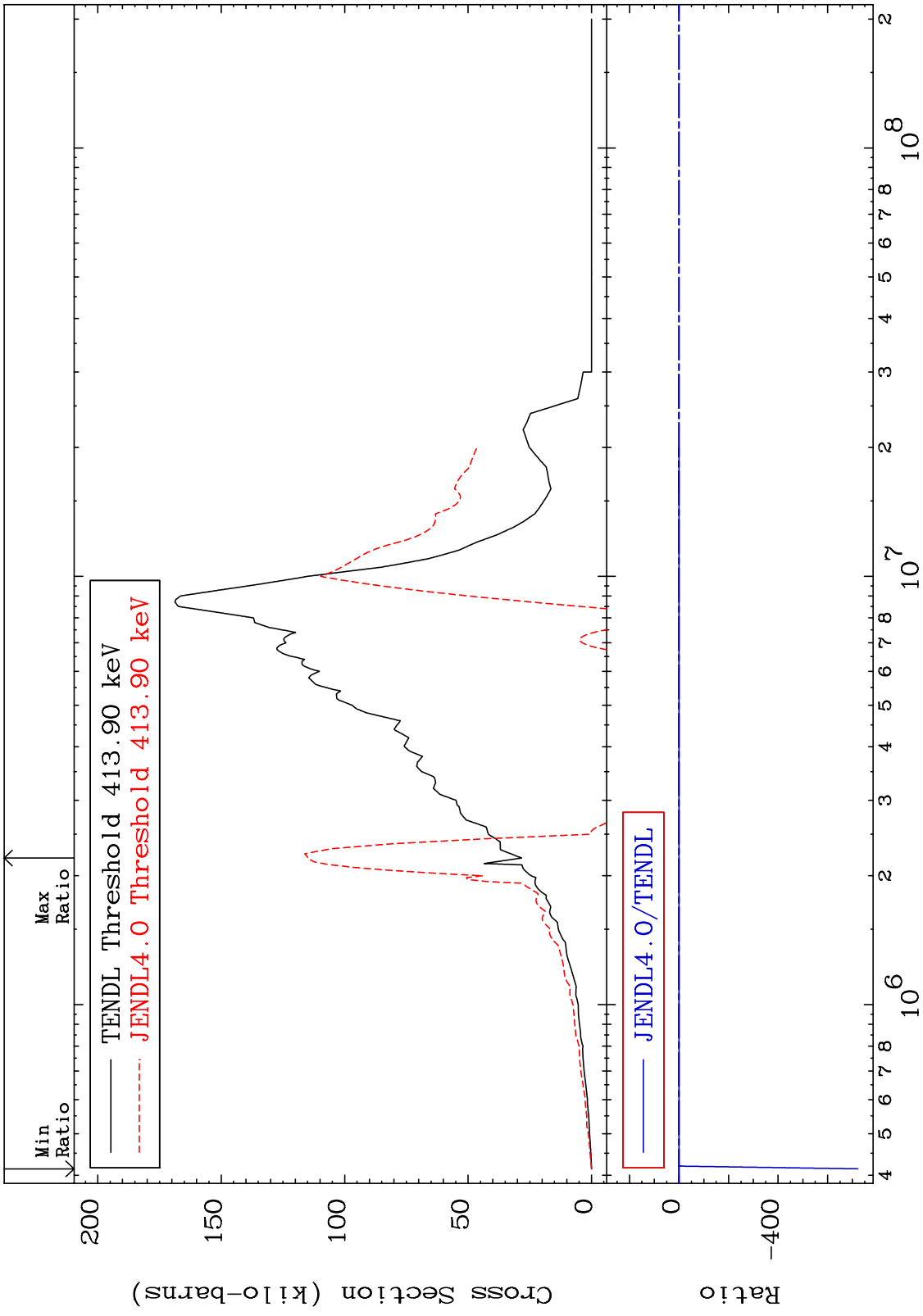
Kerma elastic
Cross Section

80-Hg-198
-96.63 To 9999. %



MAT 8031 Kerma non-elastic (all but mt.2) Cross Section 80-Hg-198
 -244.8 To 9999. %

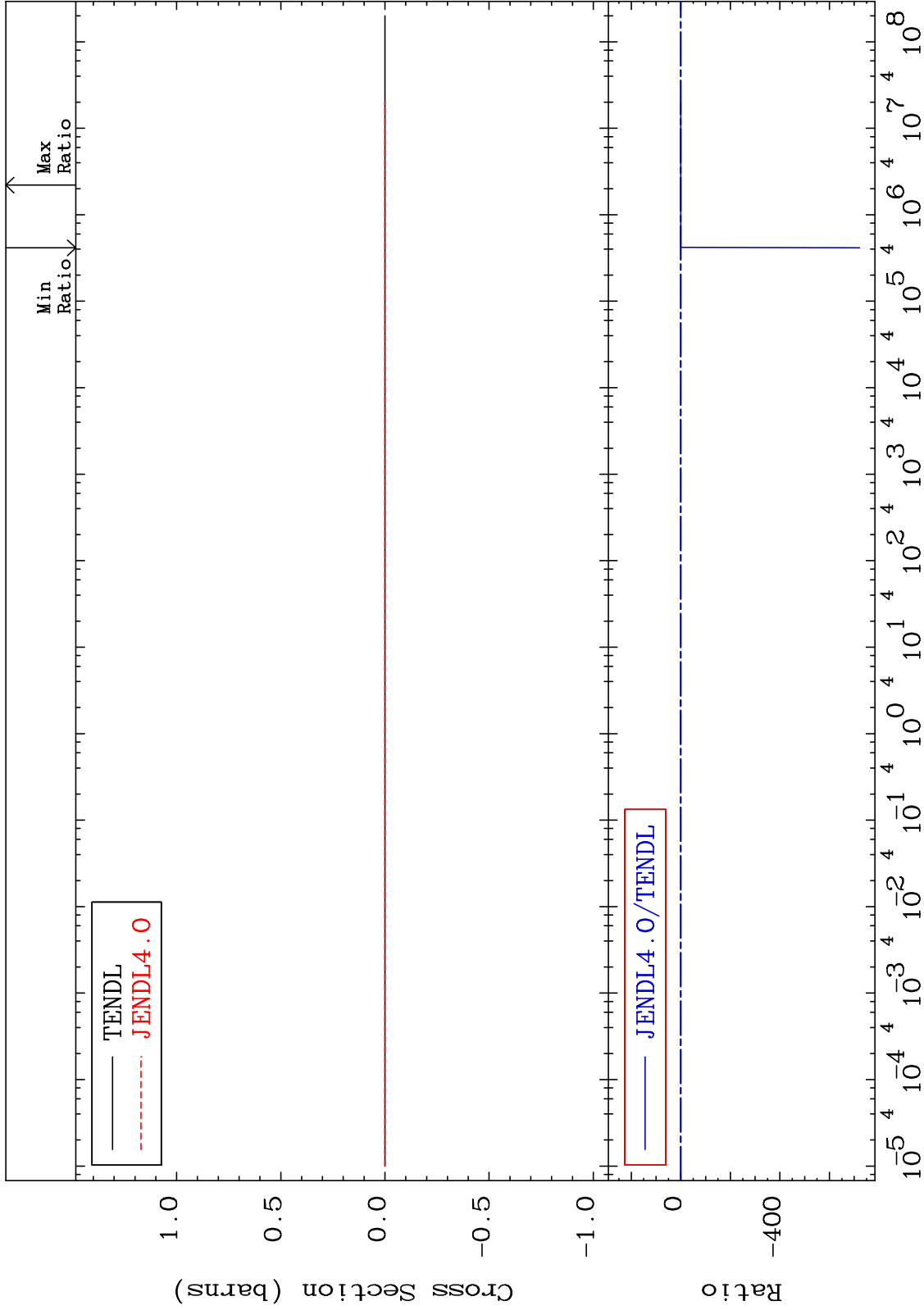




MAT 8031

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

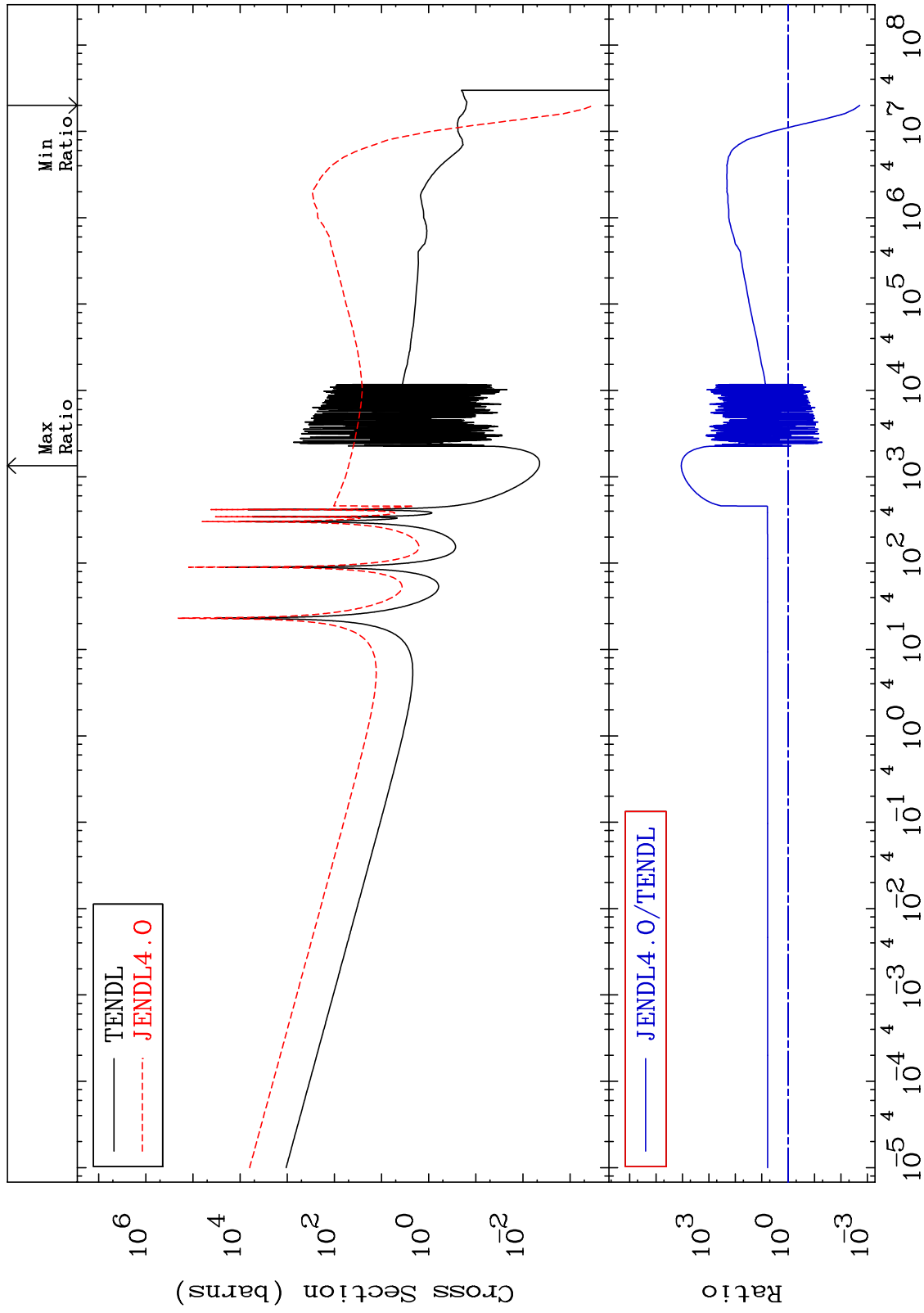
80-Hg-198
-9999. To 305.2 %



MAT 8031

Kerma capture (mt102)
Cross Section

80-Hg-198
-99.81 To 9999. %

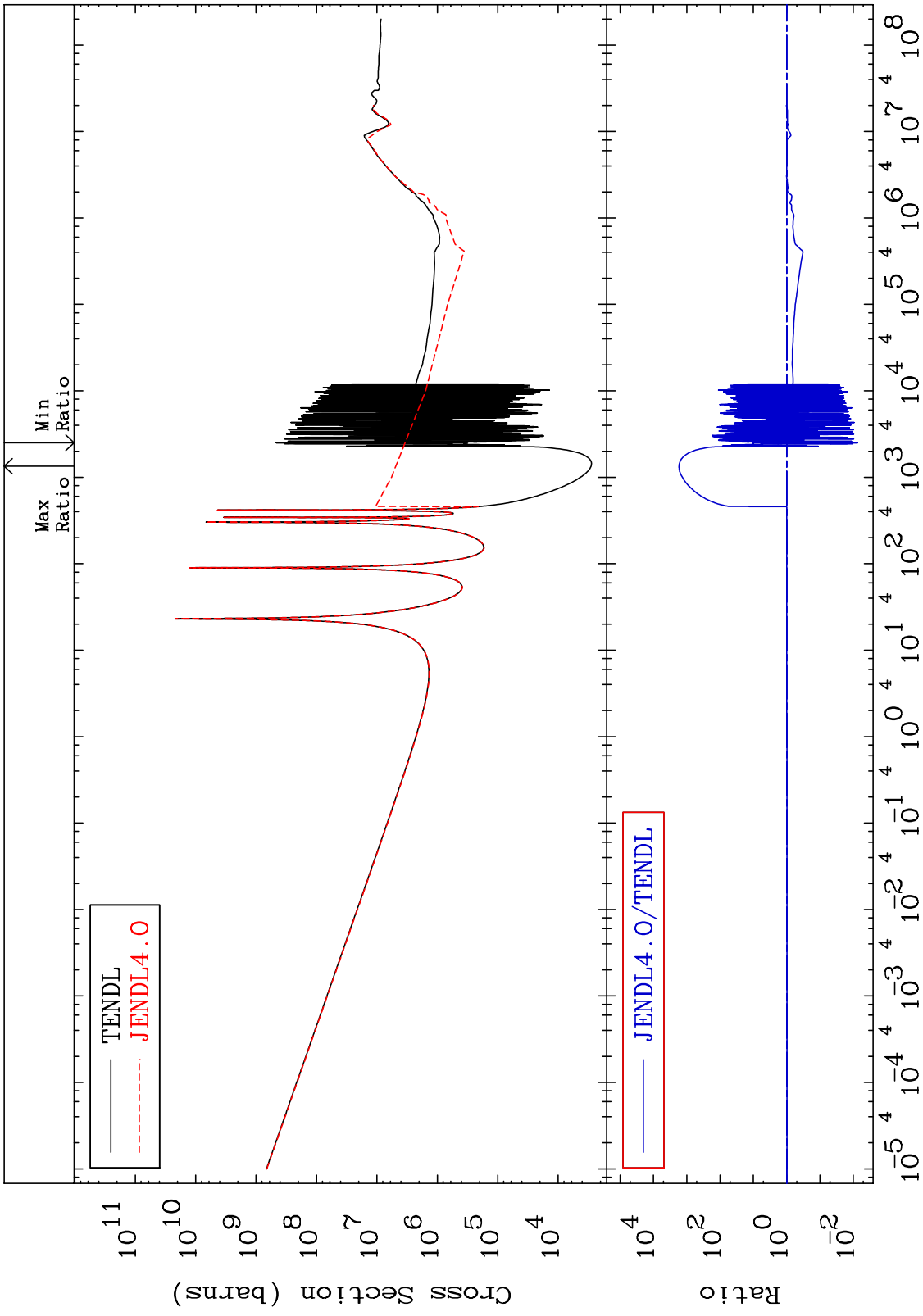


40

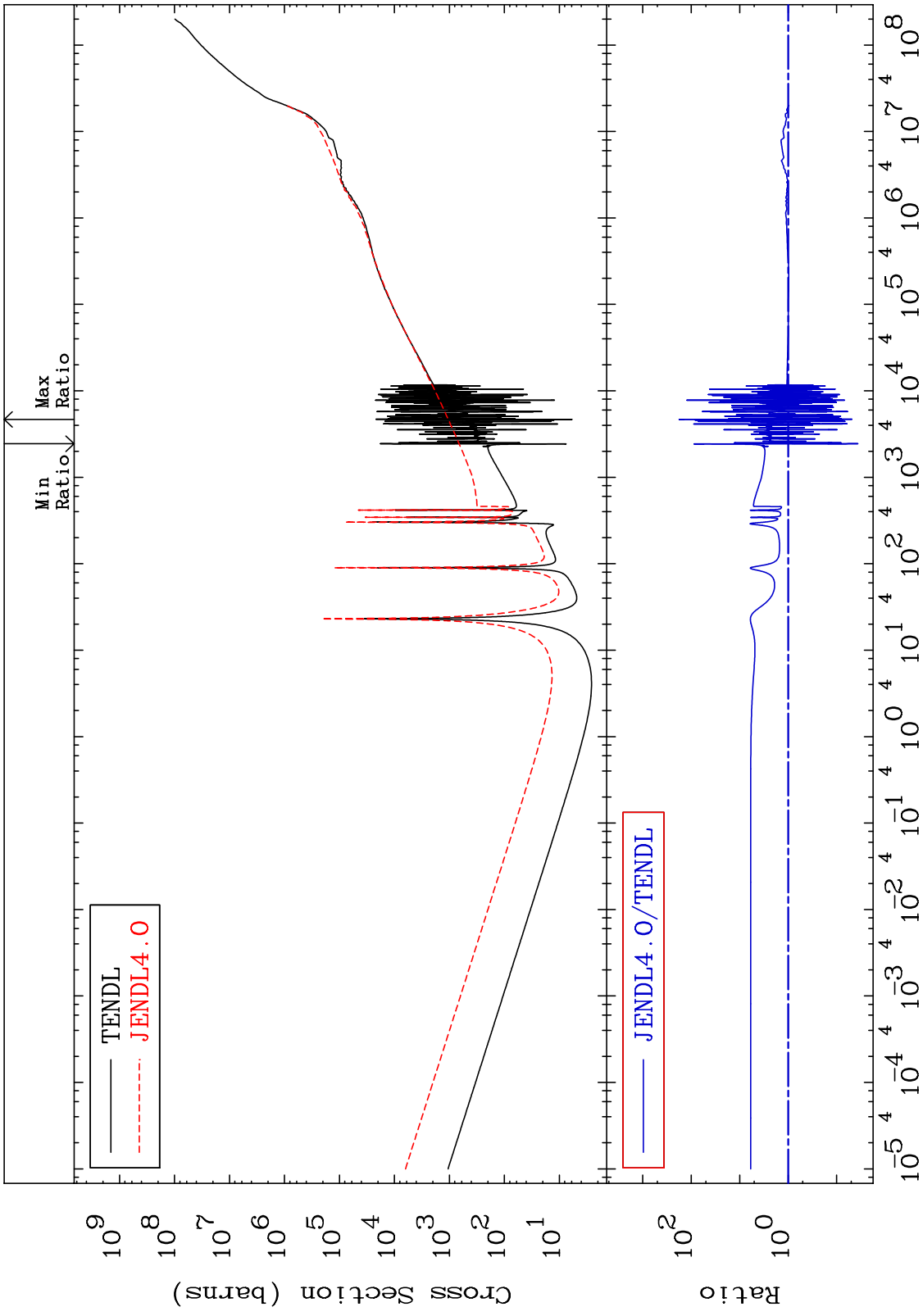
Incident Energy (eV)

80-Hg-198

MAT 8031 80-Hg-198
 Total photon (eV-barns) -99.27 To 9999. %
 Cross Section



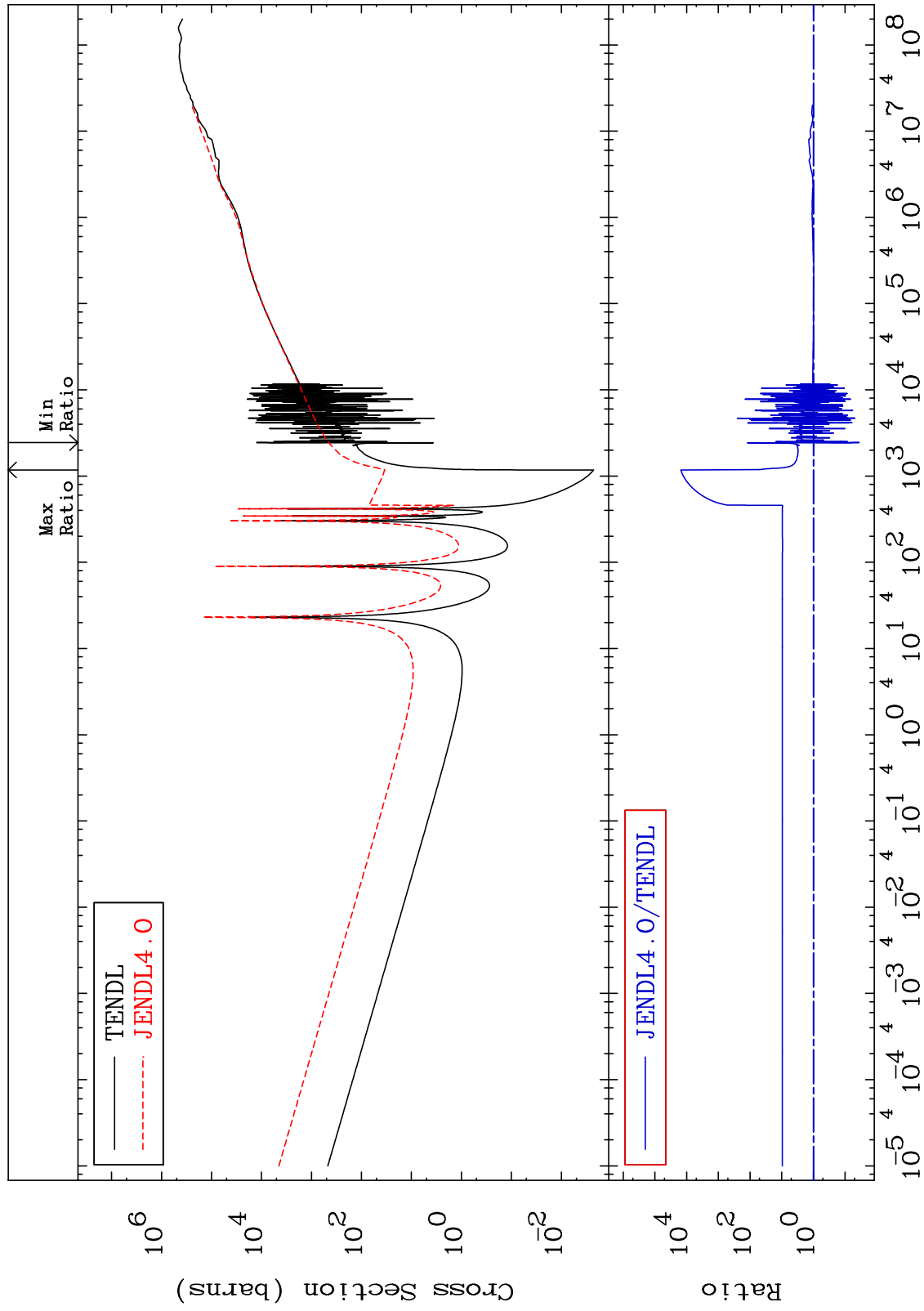
MAT 8031 Total kinematic kerma (high limit) 80-Hg-198
 Cross Section -96.34 To 9999. %



MAT 8031

Dpa total (eV-barns)
Cross Section

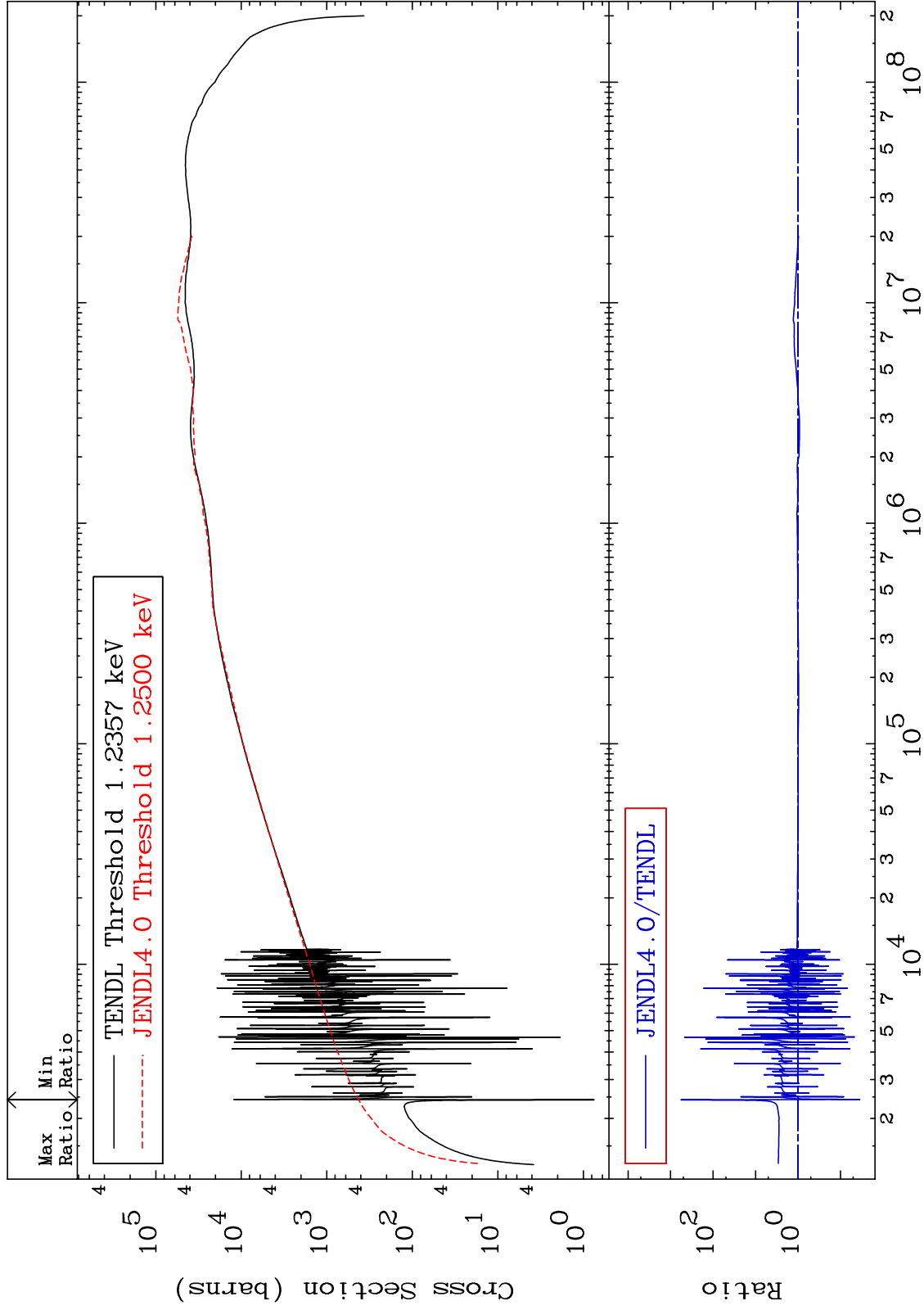
80-Hg-198
-96.38 To 9999. %



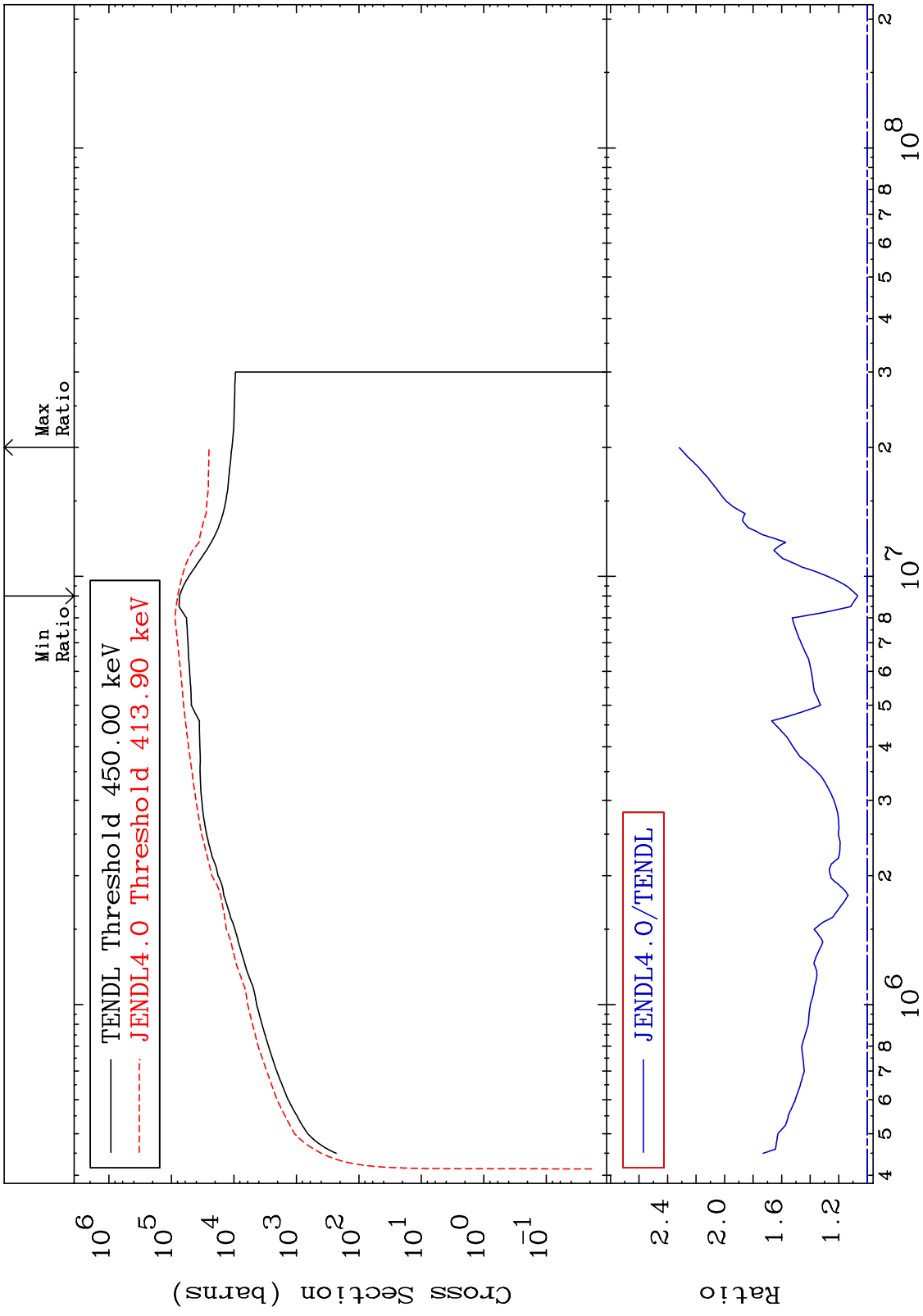
MAT 8031

Dpa elastic (mt2)
Cross Section

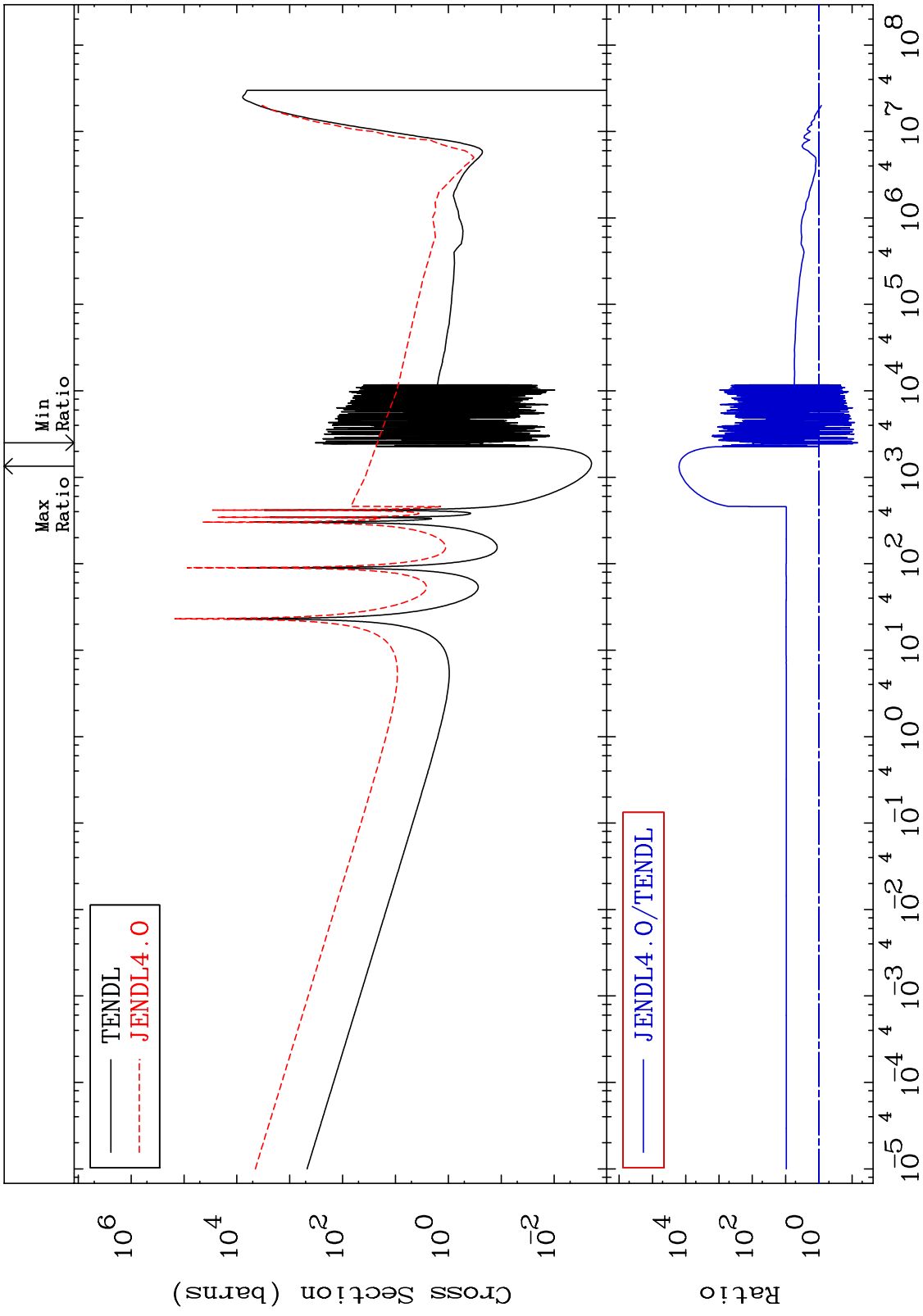
80-Hg-198
-96.49 To 9999. %



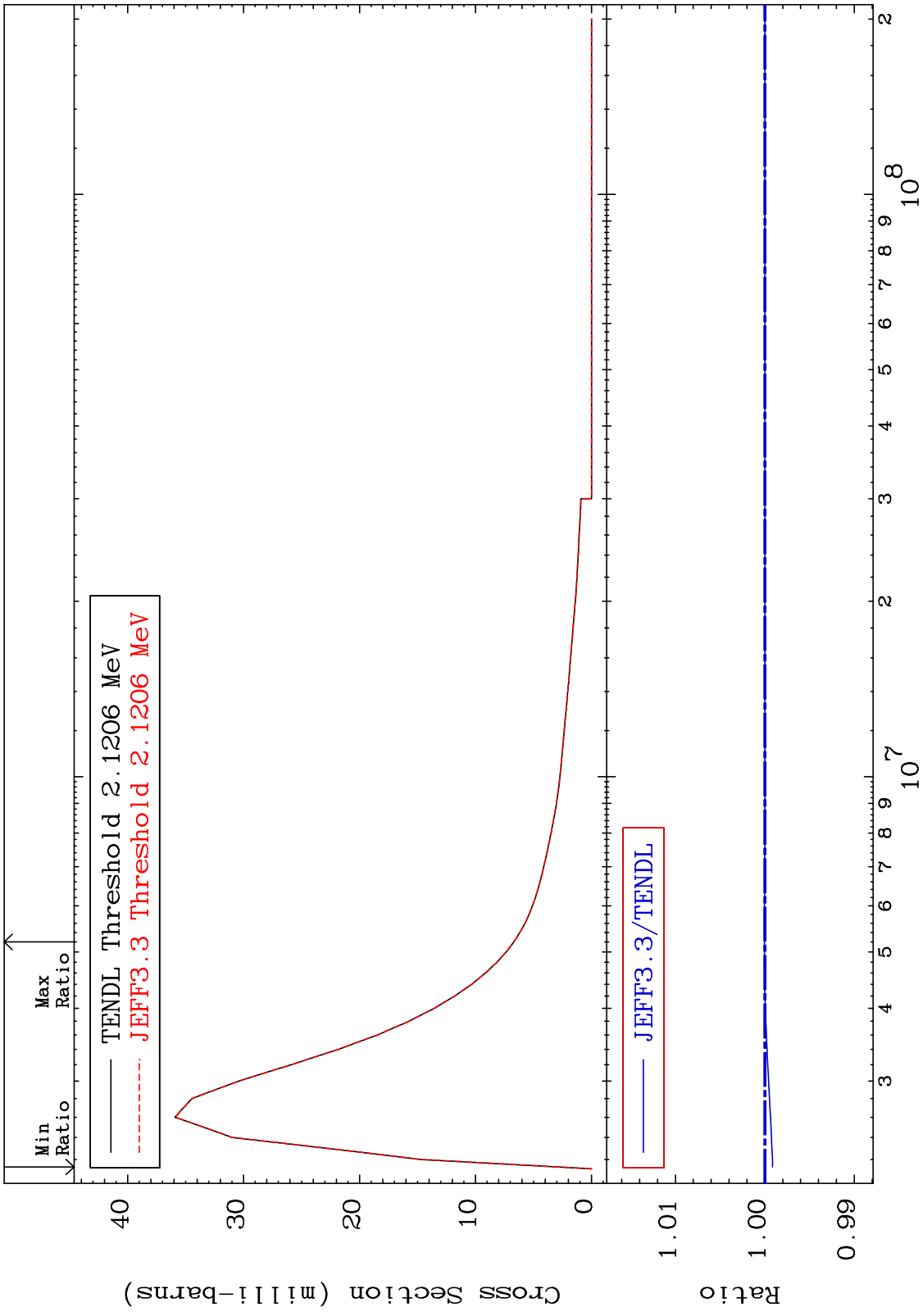
MAT 8031 Dpa inelastic (mt51-91) 80-Hg-198
 Cross Section 6.595 To 132.0 %



MAT 8031 Dpa disappearance (mt102 -120) 80-Hg-198
 Cross Section -93.27 To 9999. %



MAT 8031 MT= 79 (n,n') Level Cross Section 80-Hg-198
 -0.086 To 0.005 %

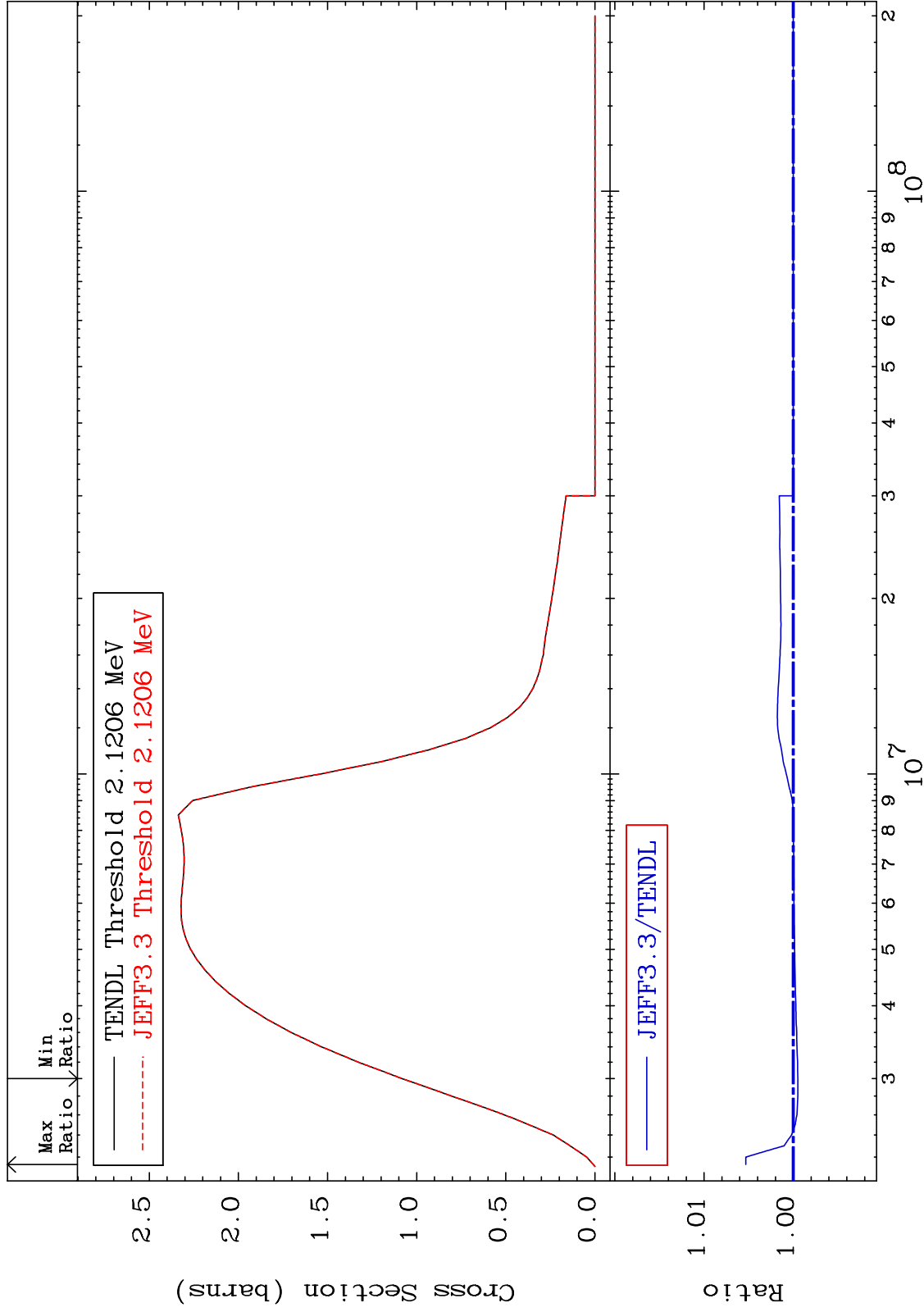


80-Hg-198

MAT 8031

(n, n') Continuum
Cross Section

80-Hg-198
-0.052 To 0.532 %



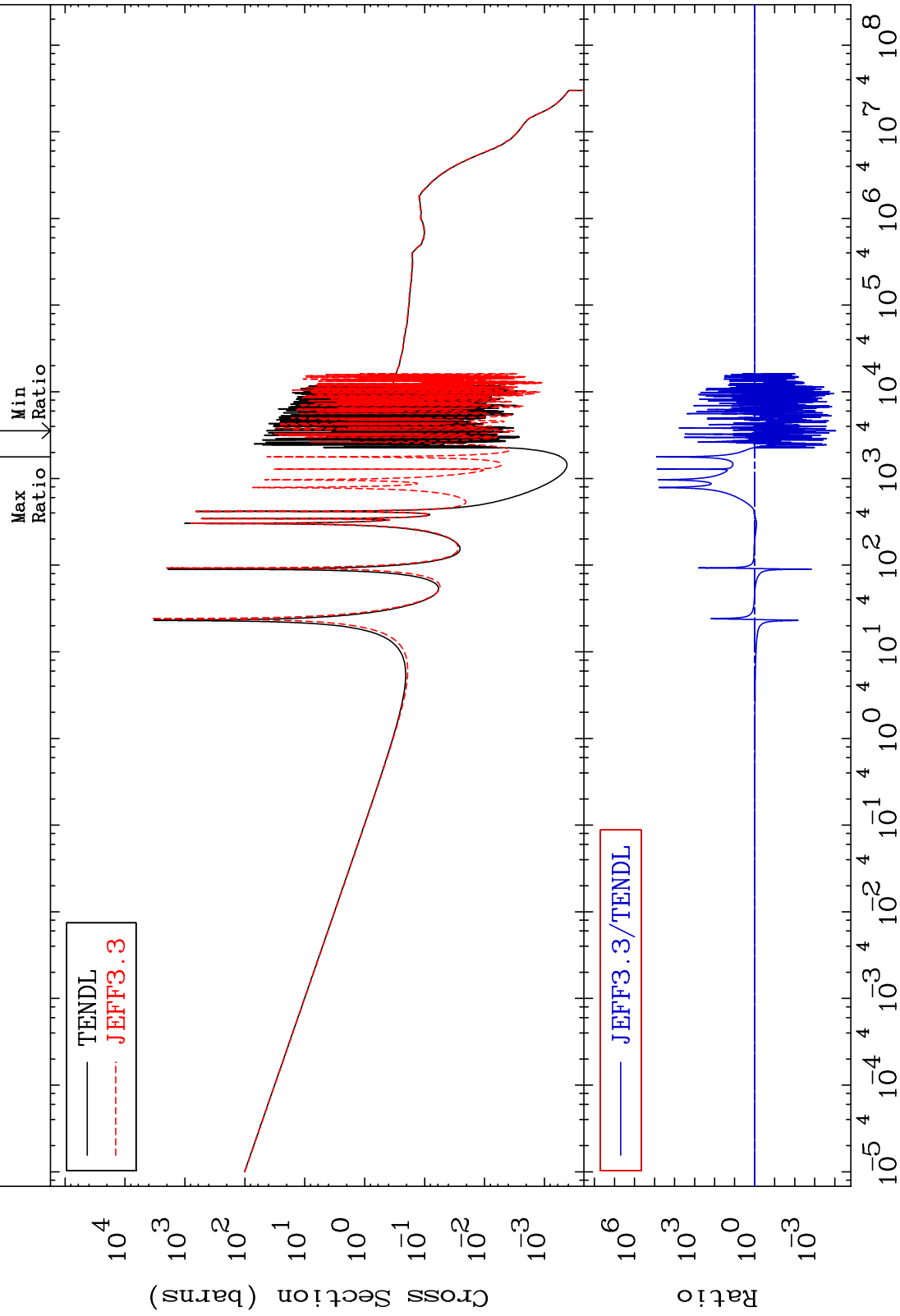
MAT 8031

(n, γ)

80-Hg-198

-99.99 To 9999. %

Cross Section



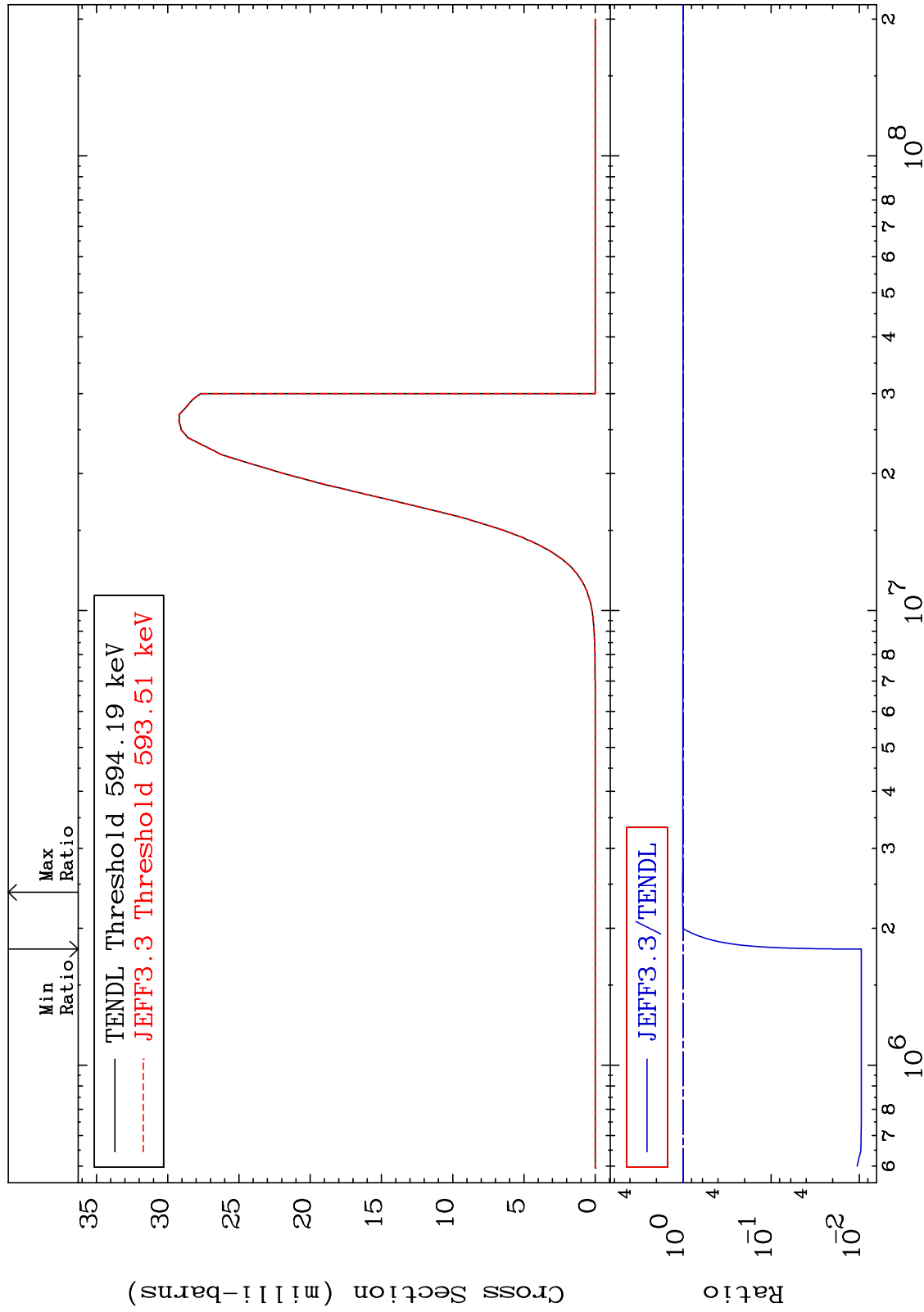
MAT 8031

(n,p)

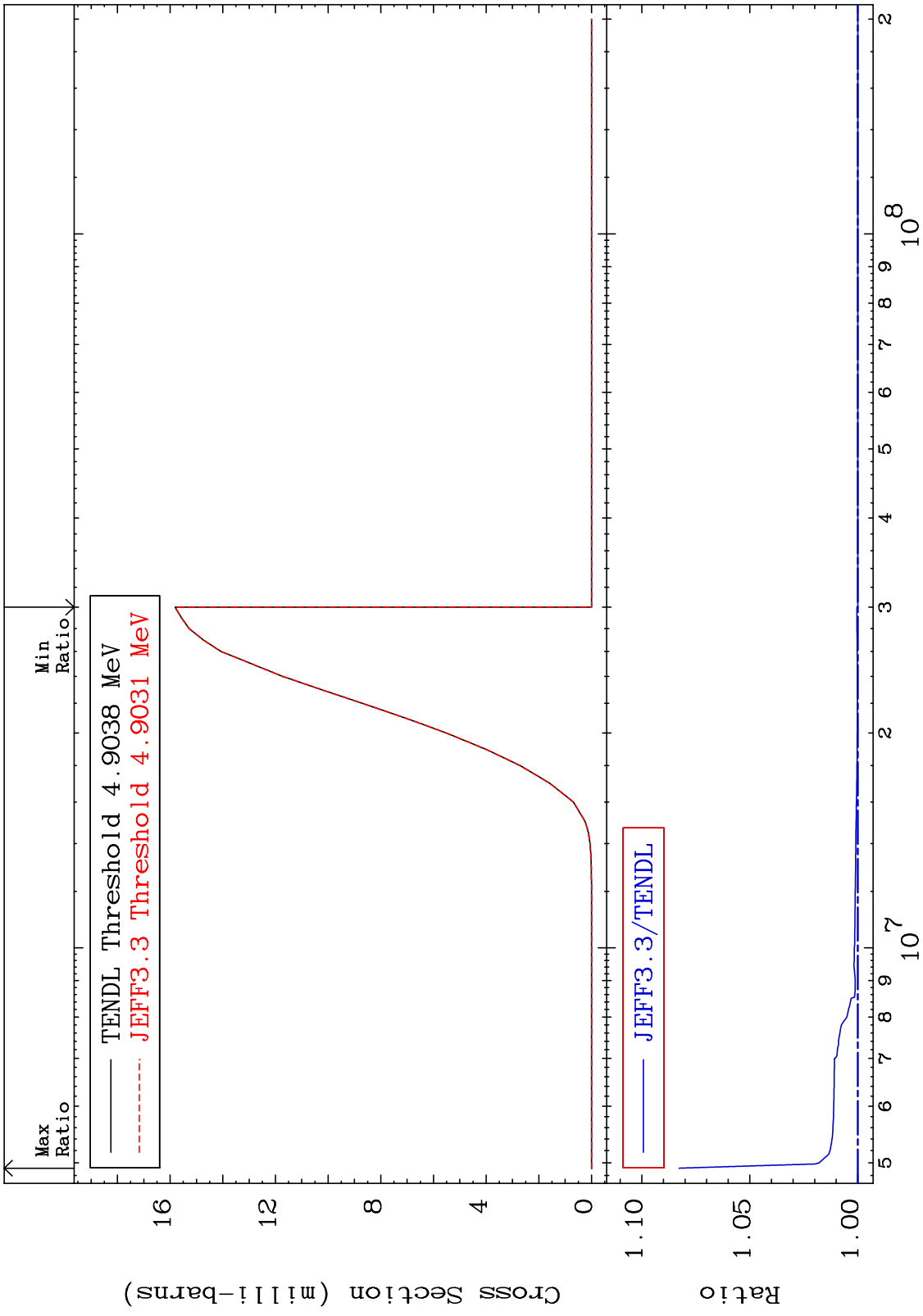
80-Hg-198

Cross Section

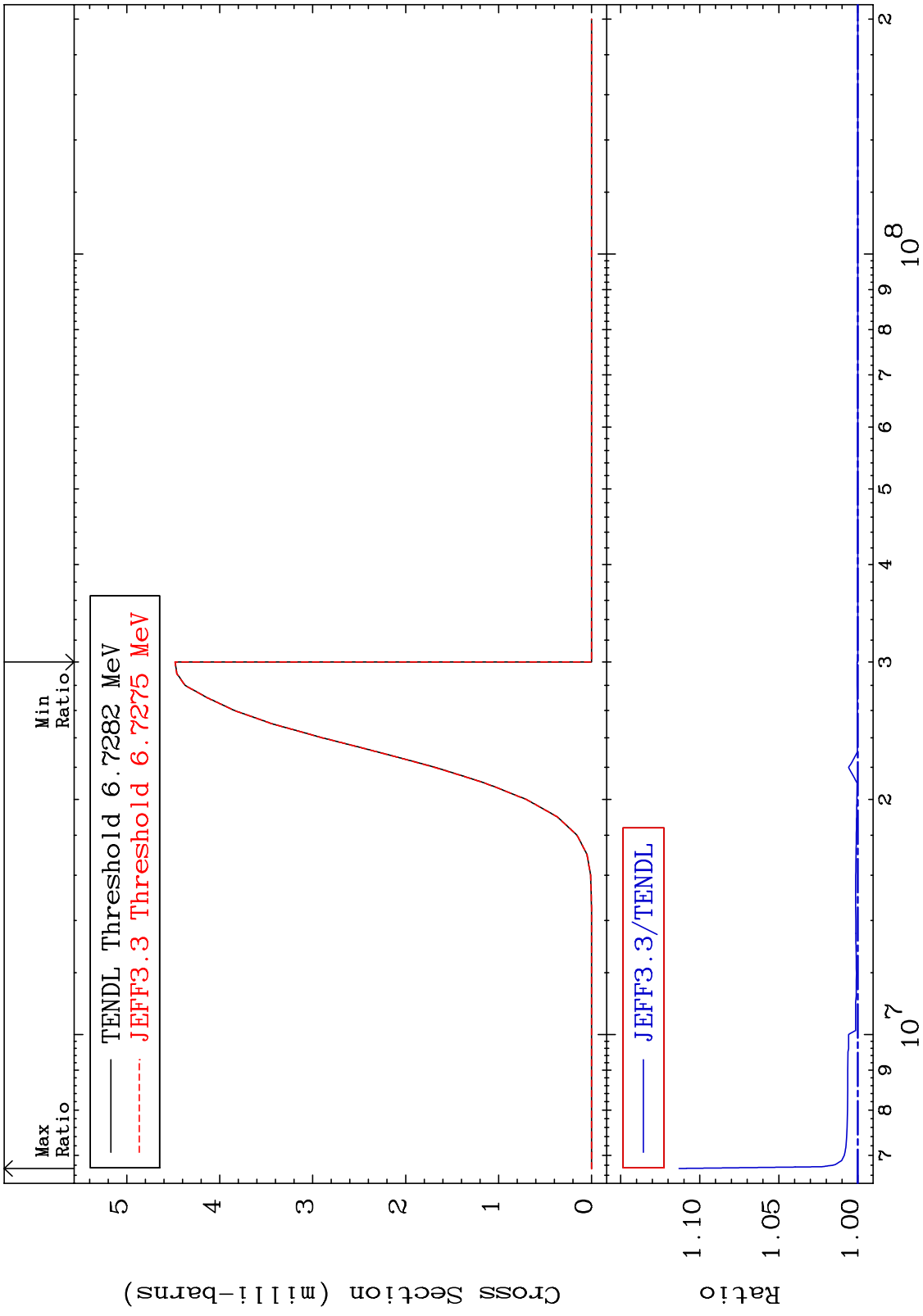
-99.05 To 0.876 %



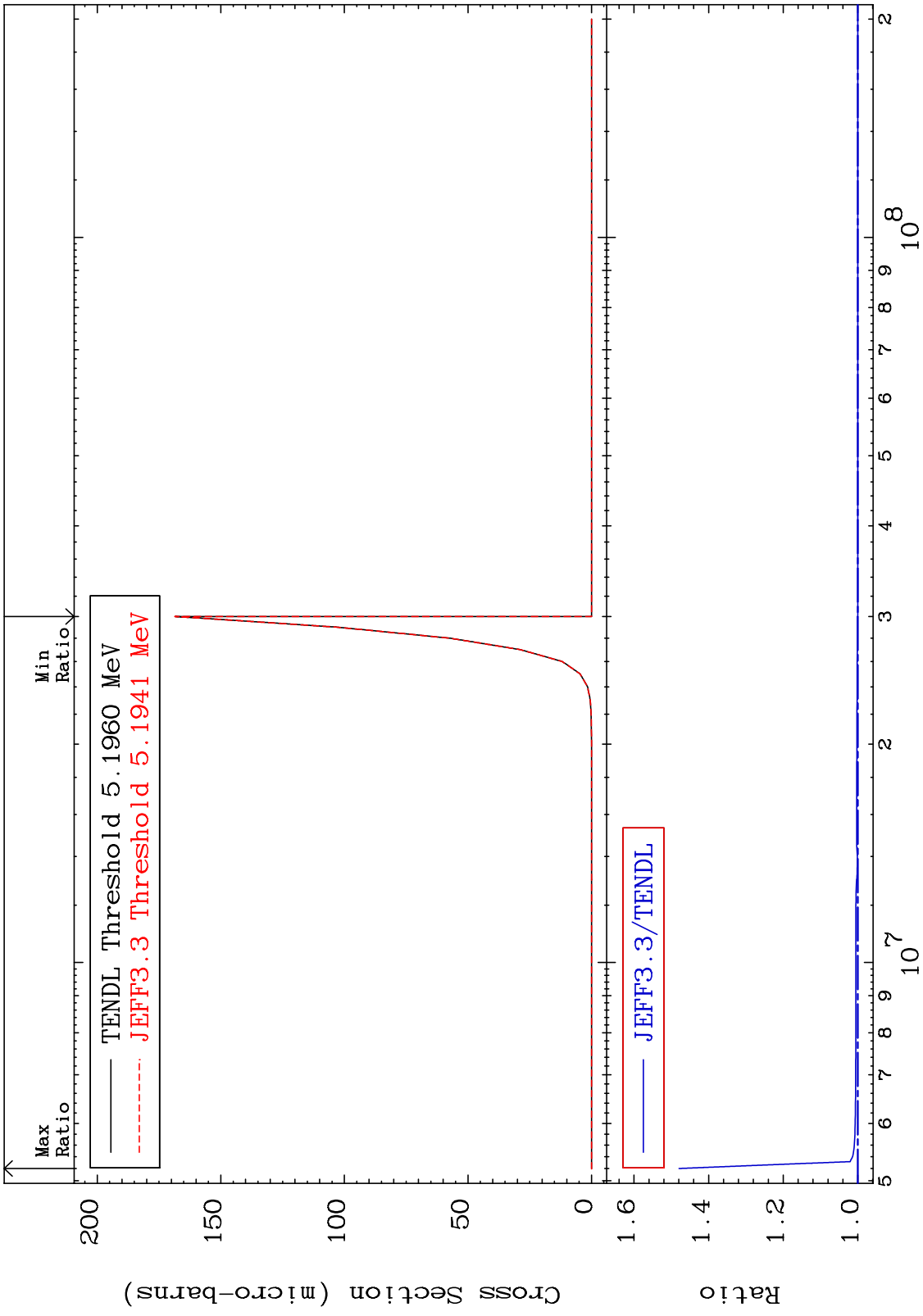
MAT 8031 (n,d) Cross Section 80-Hg-198 To 8.276 %



MAT 8031 (n,t) Cross Section 80-Hg-198 To 11.31 %



MAT 8031 (n, He-3) Cross Section 80-Hg-198 To 47.93 %



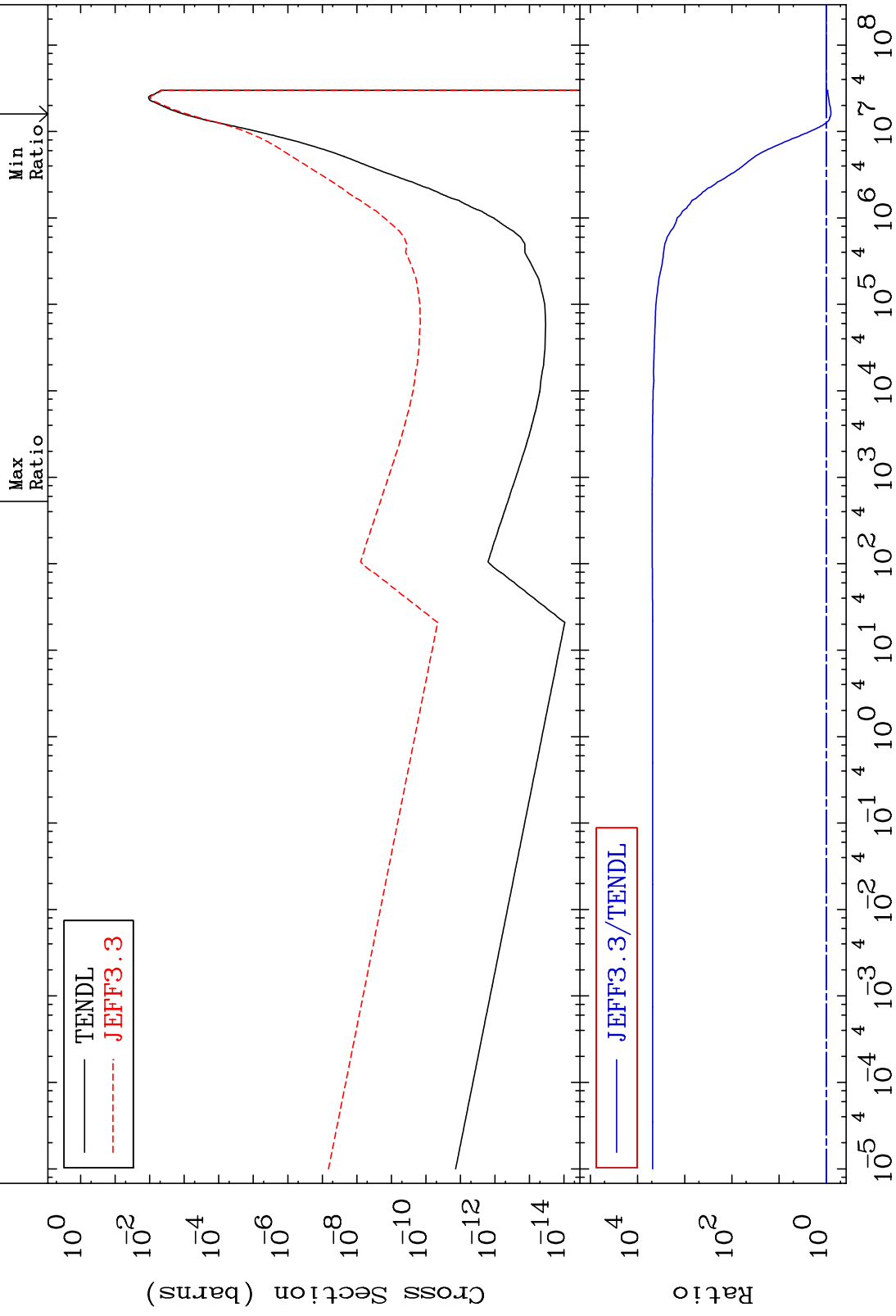
MAT 8031

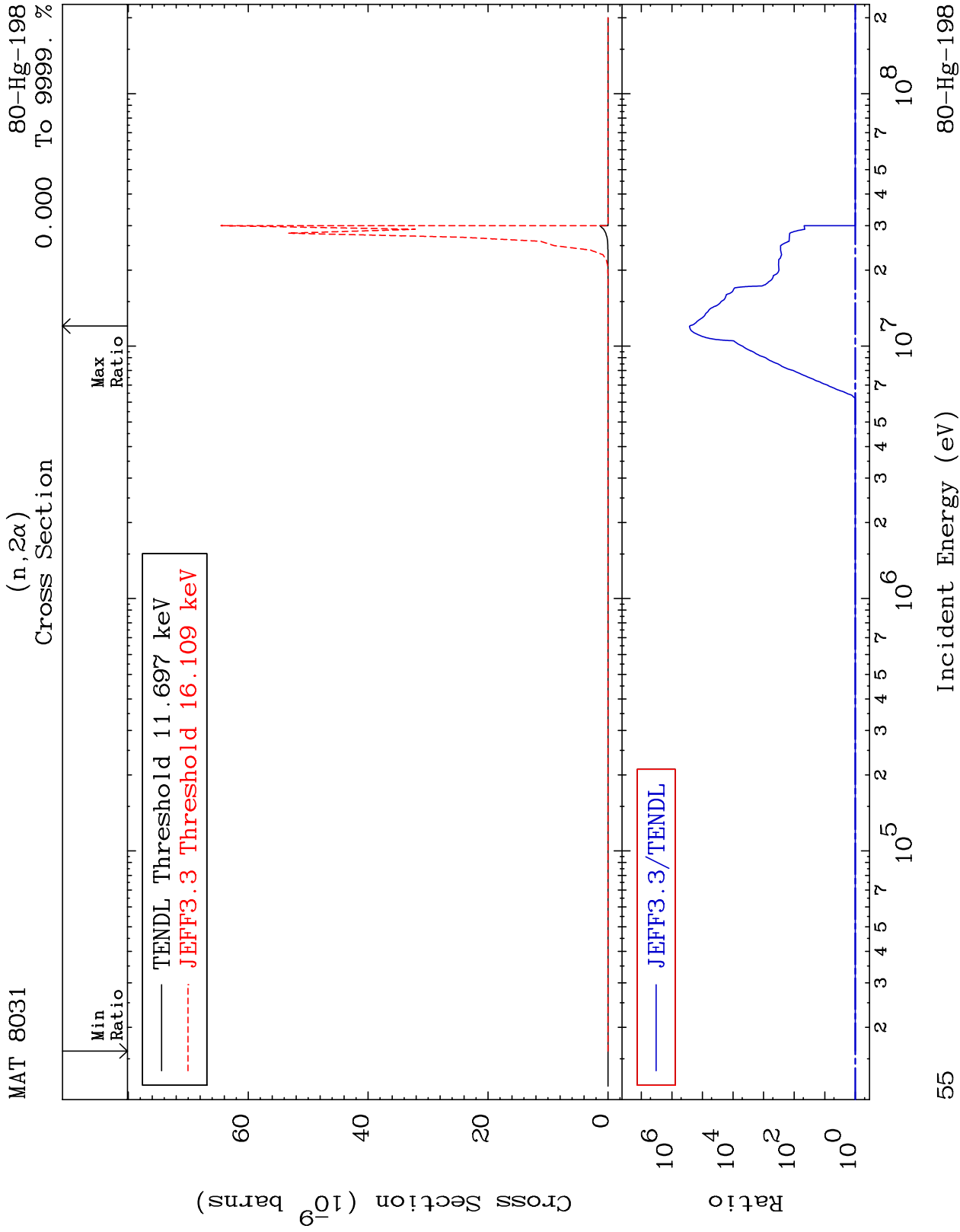
(n, α)

80-Hg-198

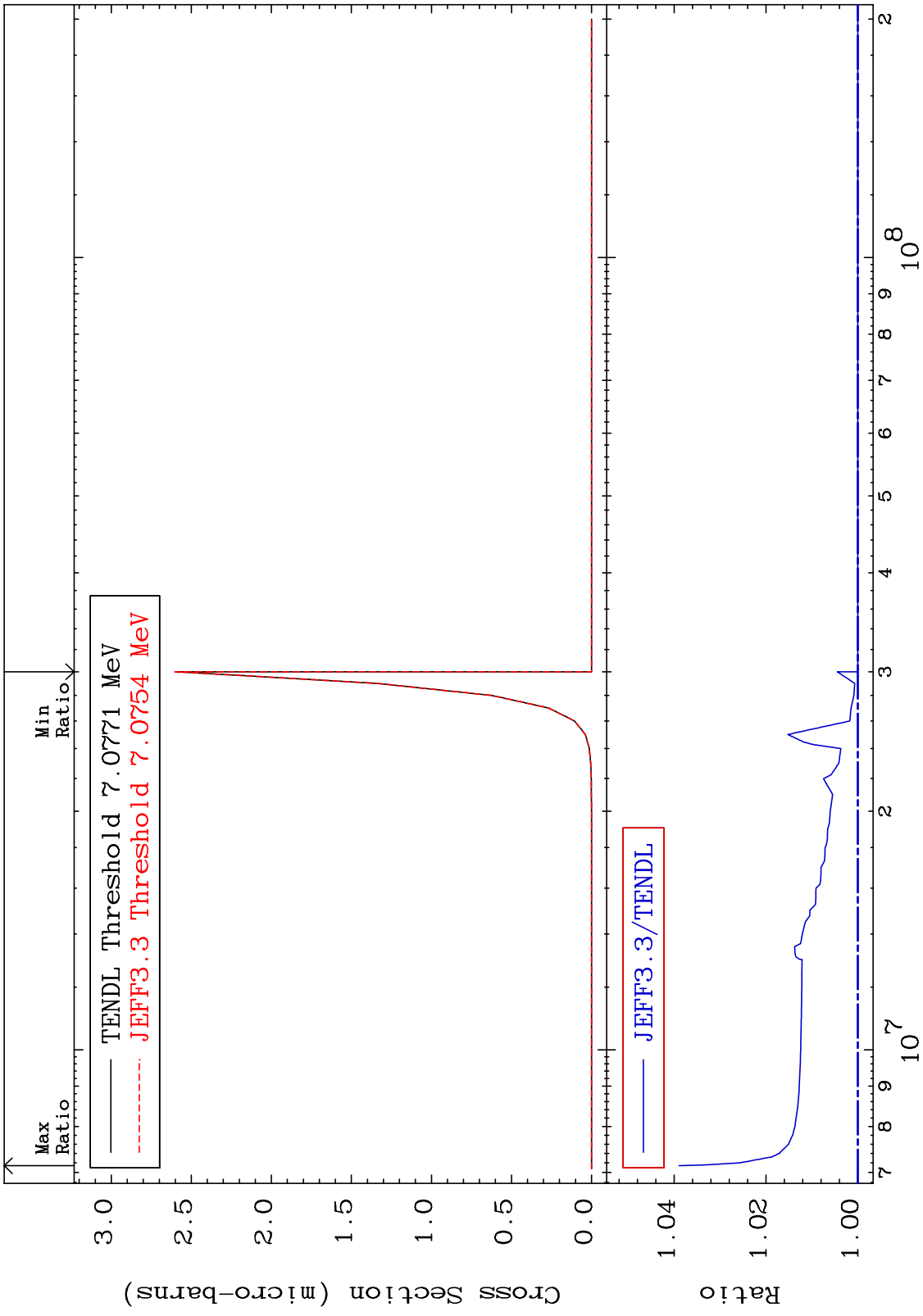
-19.95 To 9999. %

Cross Section





MAT 8031 (n,2p) Cross Section 80-Hg-198 To 3.895 %



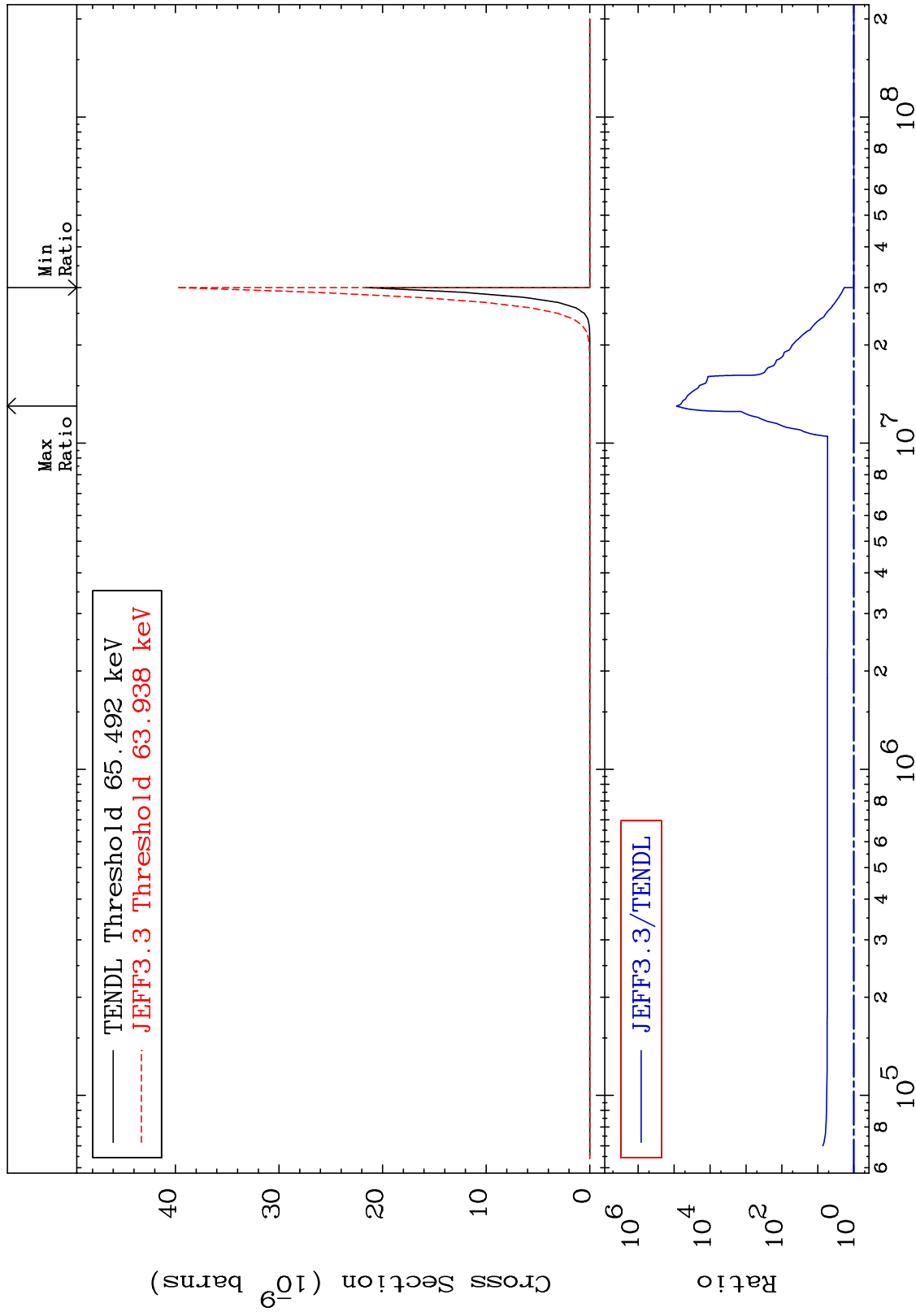
MAT 8031

(n,p) α

80-Hg-198

Cross Section

0.000 To 9999. %

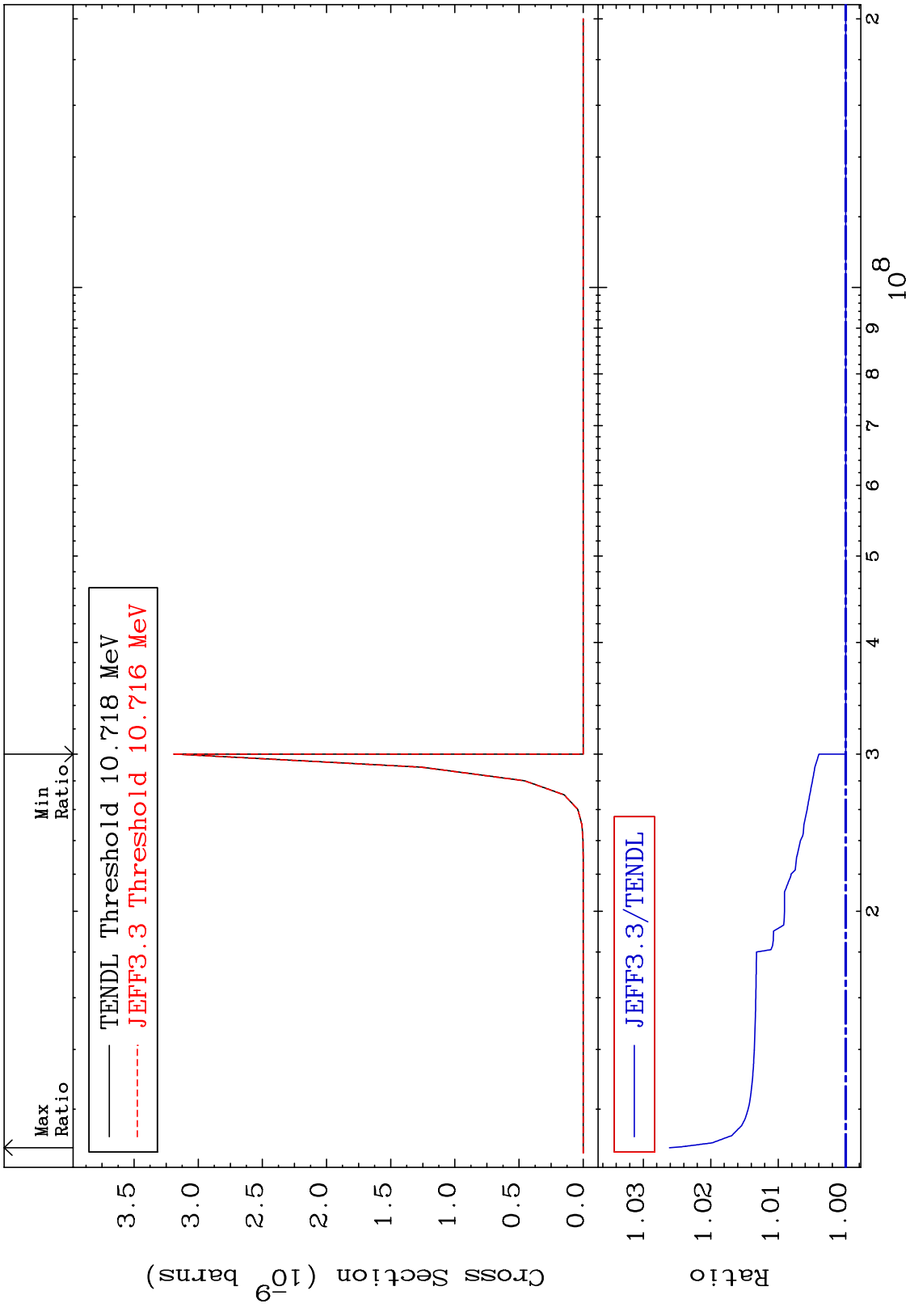


57

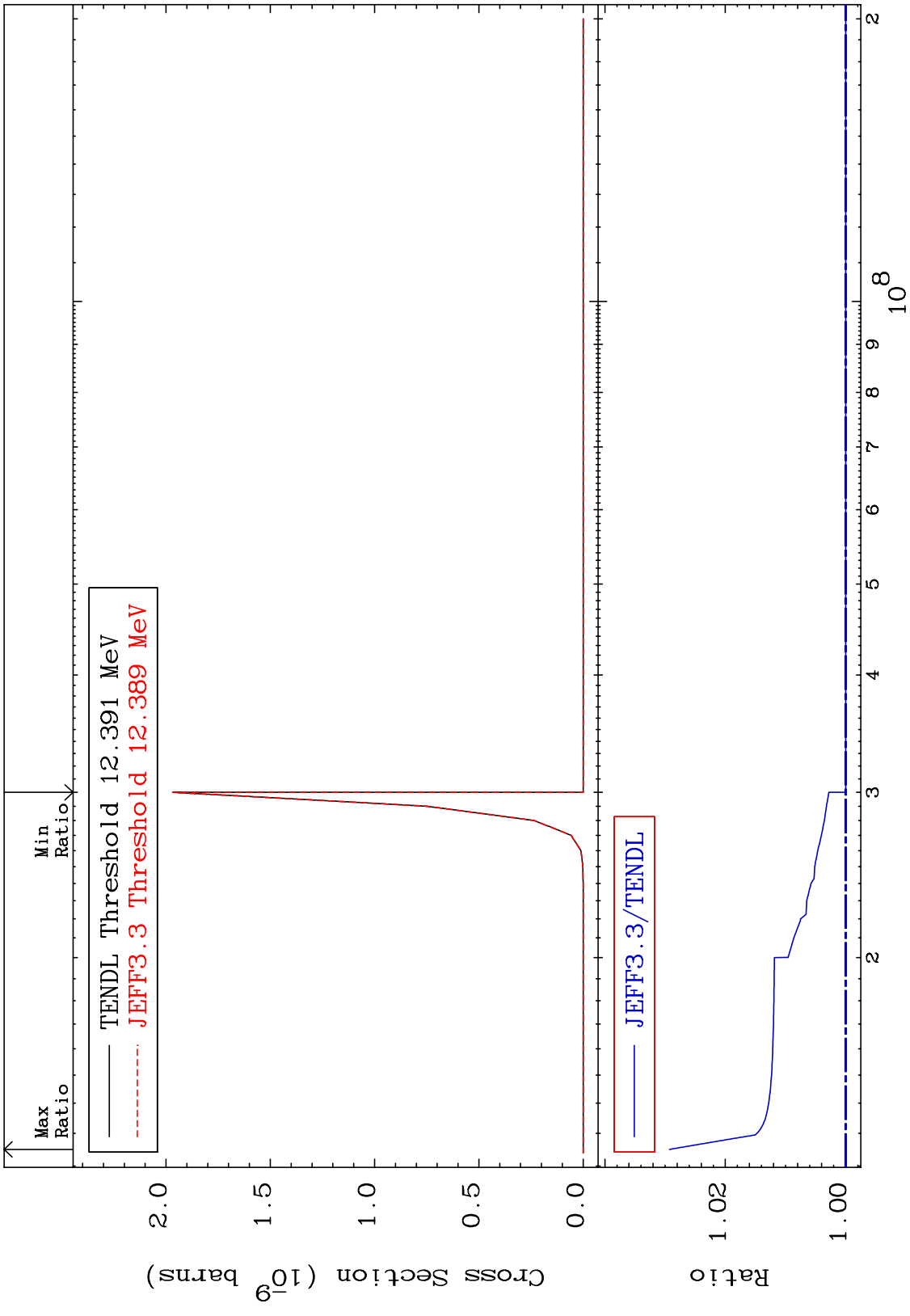
Incident Energy (eV)

80-Hg-198

MAT 8031 (n,p) d 80-Hg-198
 Cross Section 0.000 To 2.612 %



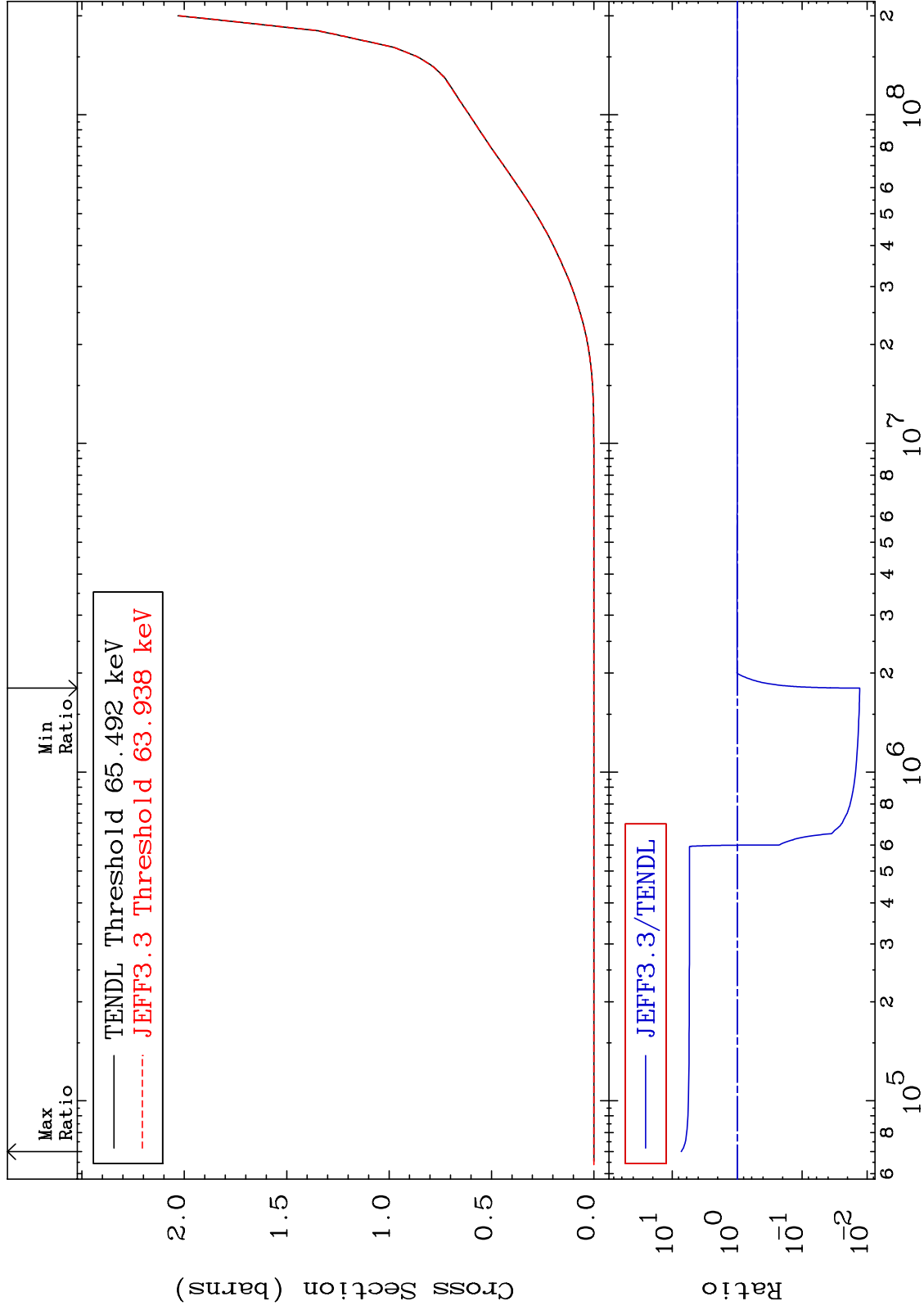
MAT 8031 (n,p) t 80-Hg-198
 Cross Section 0.000 To 2.928 %



MAT 8031

Hydrogen Production
Cross Section

80-Hg-198
-98.70 To 627.9 %



60

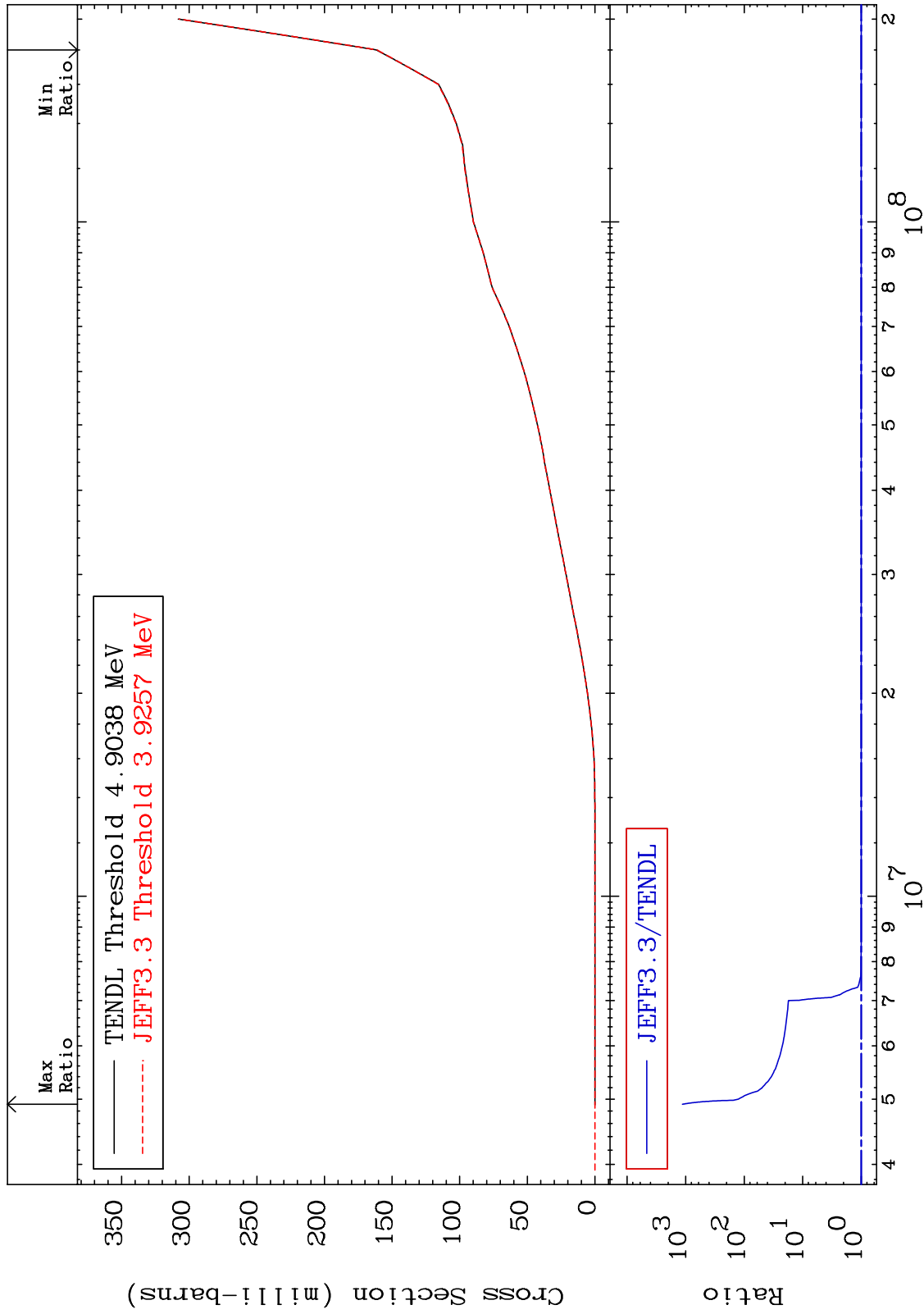
Incident Energy (eV)

80-Hg-198

MAT 8031

Deuterium Production
Cross Section

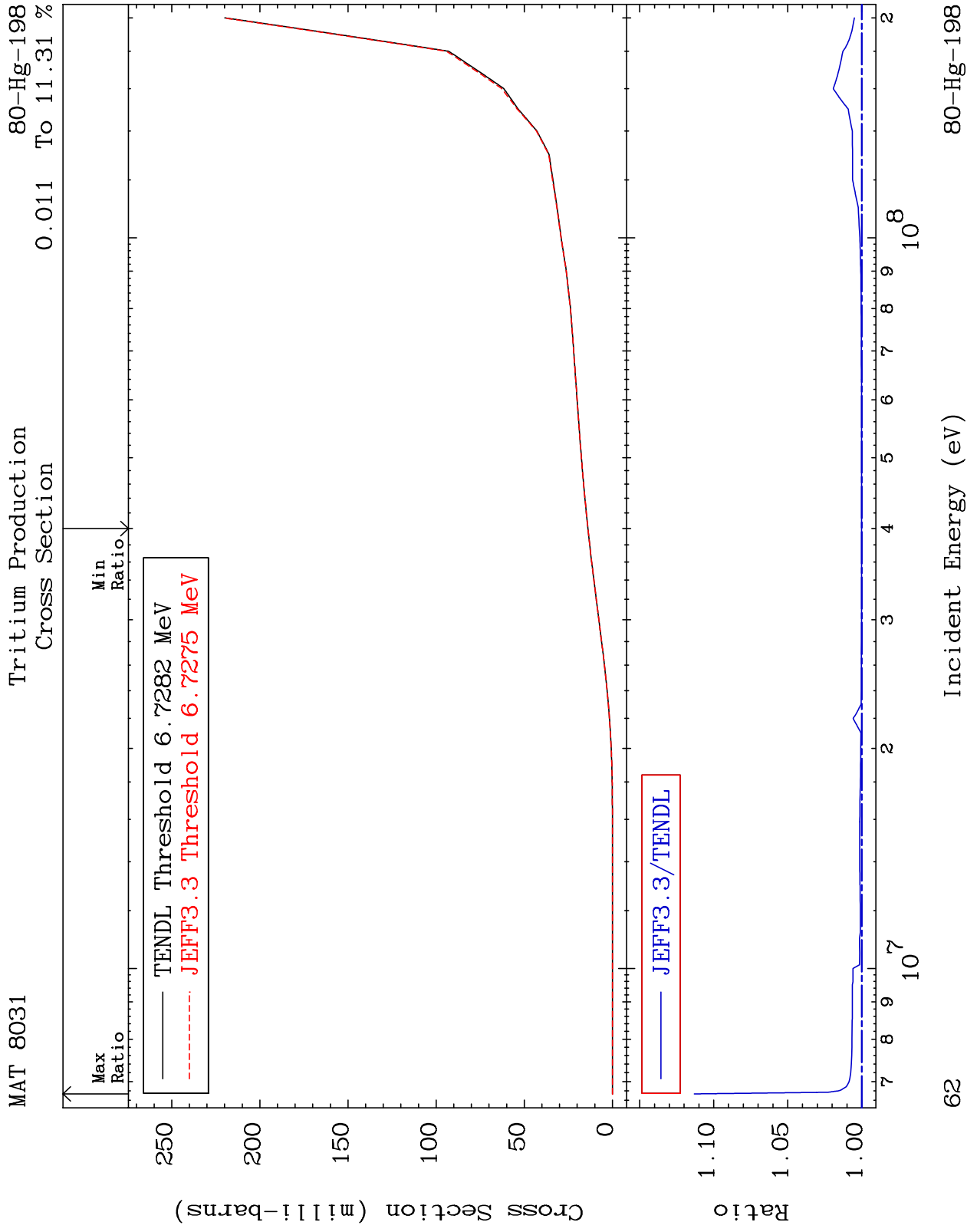
80-Hg-198
-0.299 To 9999. %



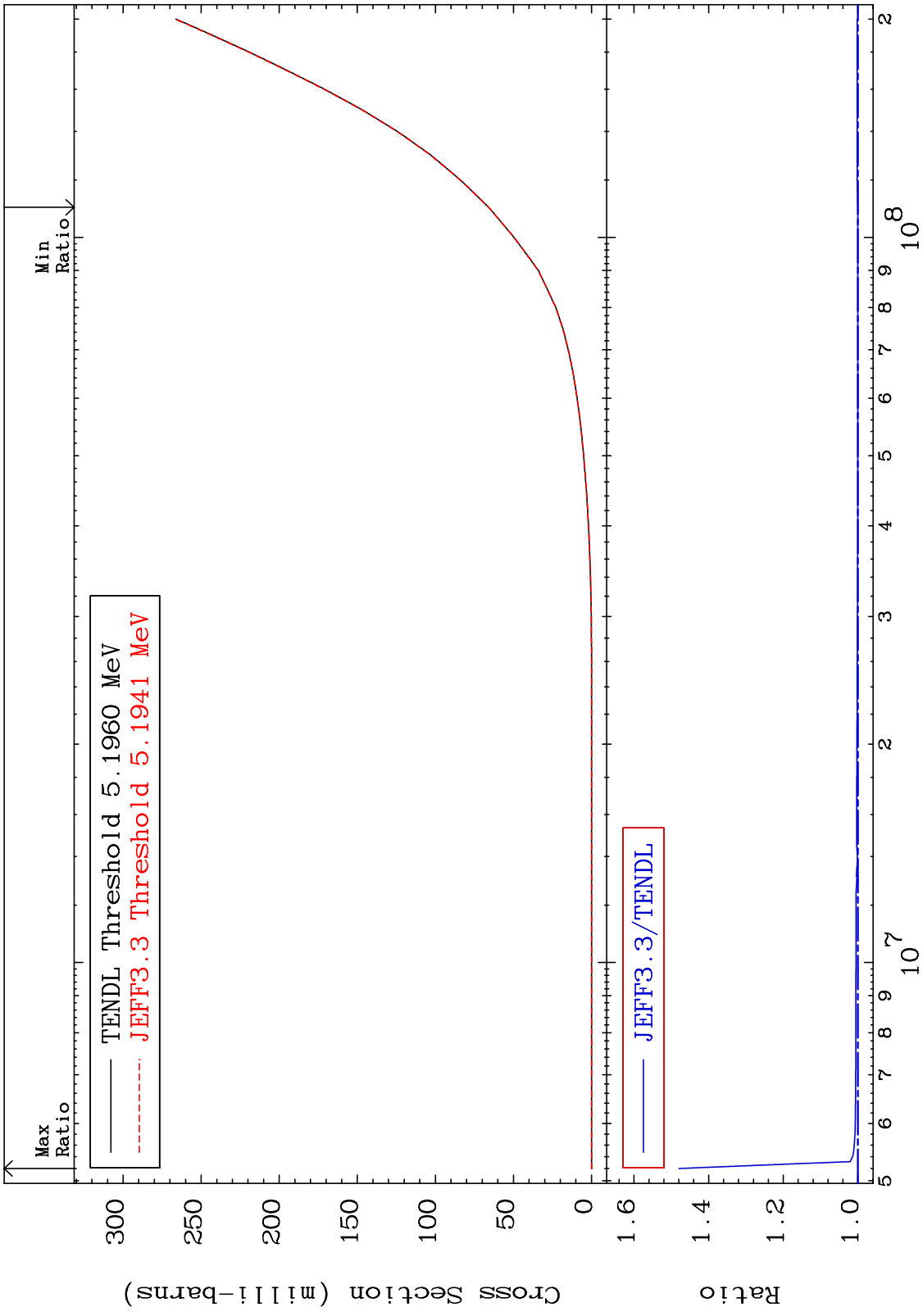
61

Incident Energy (eV)

80-Hg-198



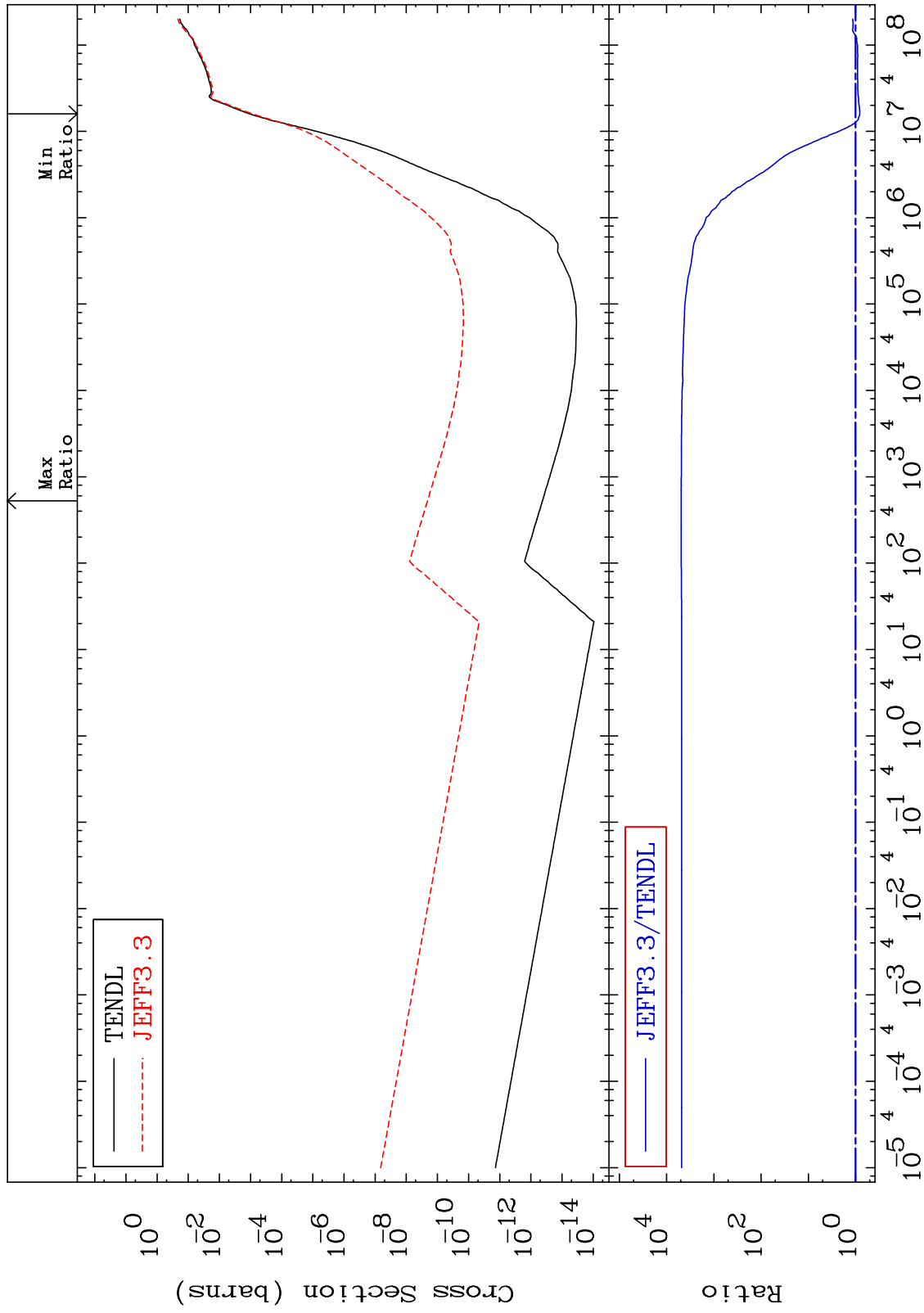
MAT 8031 He-3 Production Cross Section 80-Hg-198 To 47.93 %



MAT 8031

He-4 Production
Cross Section

80-Hg-198
-18.45 To 9999. %

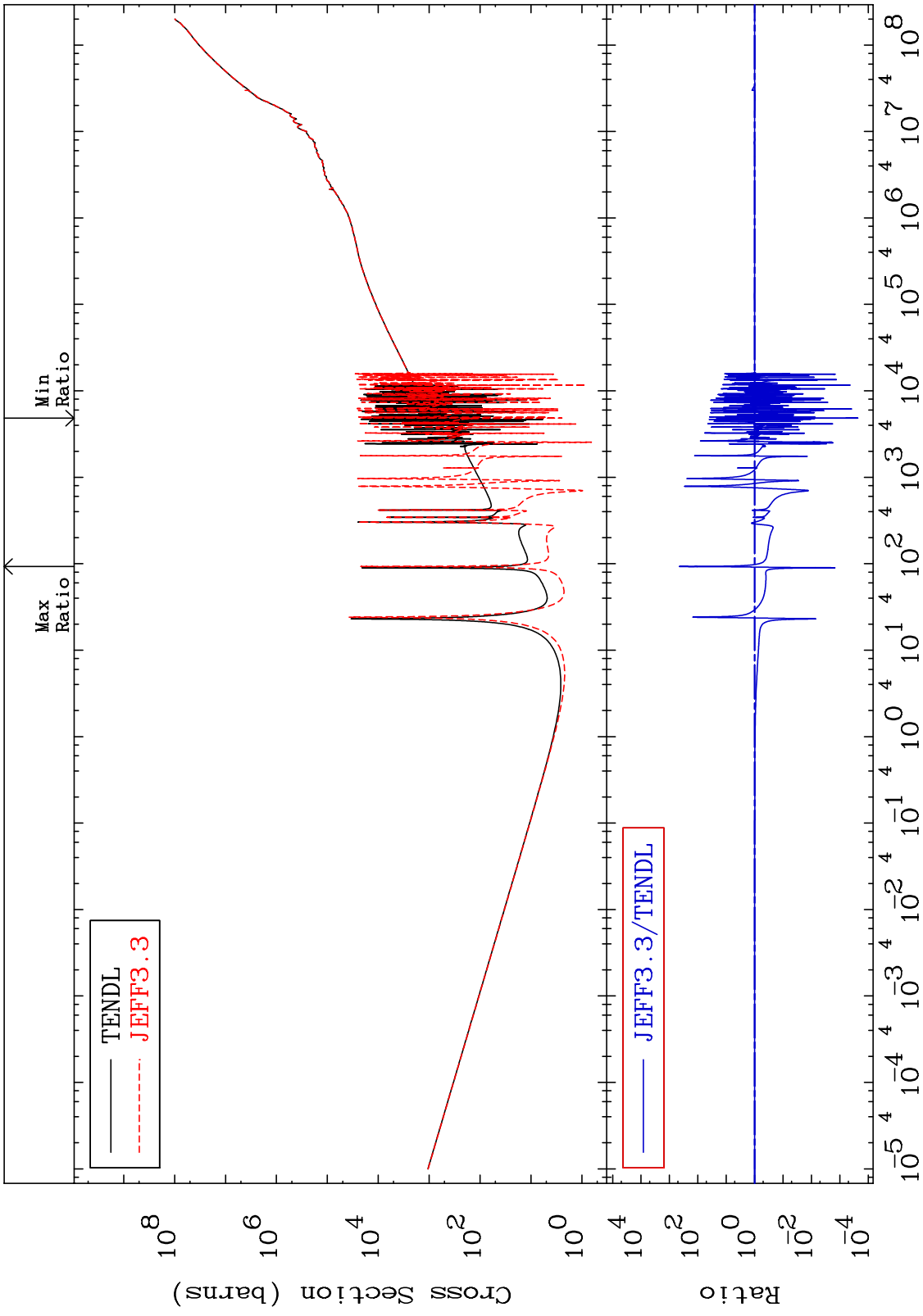


64

Incident Energy (eV)

80-Hg-198

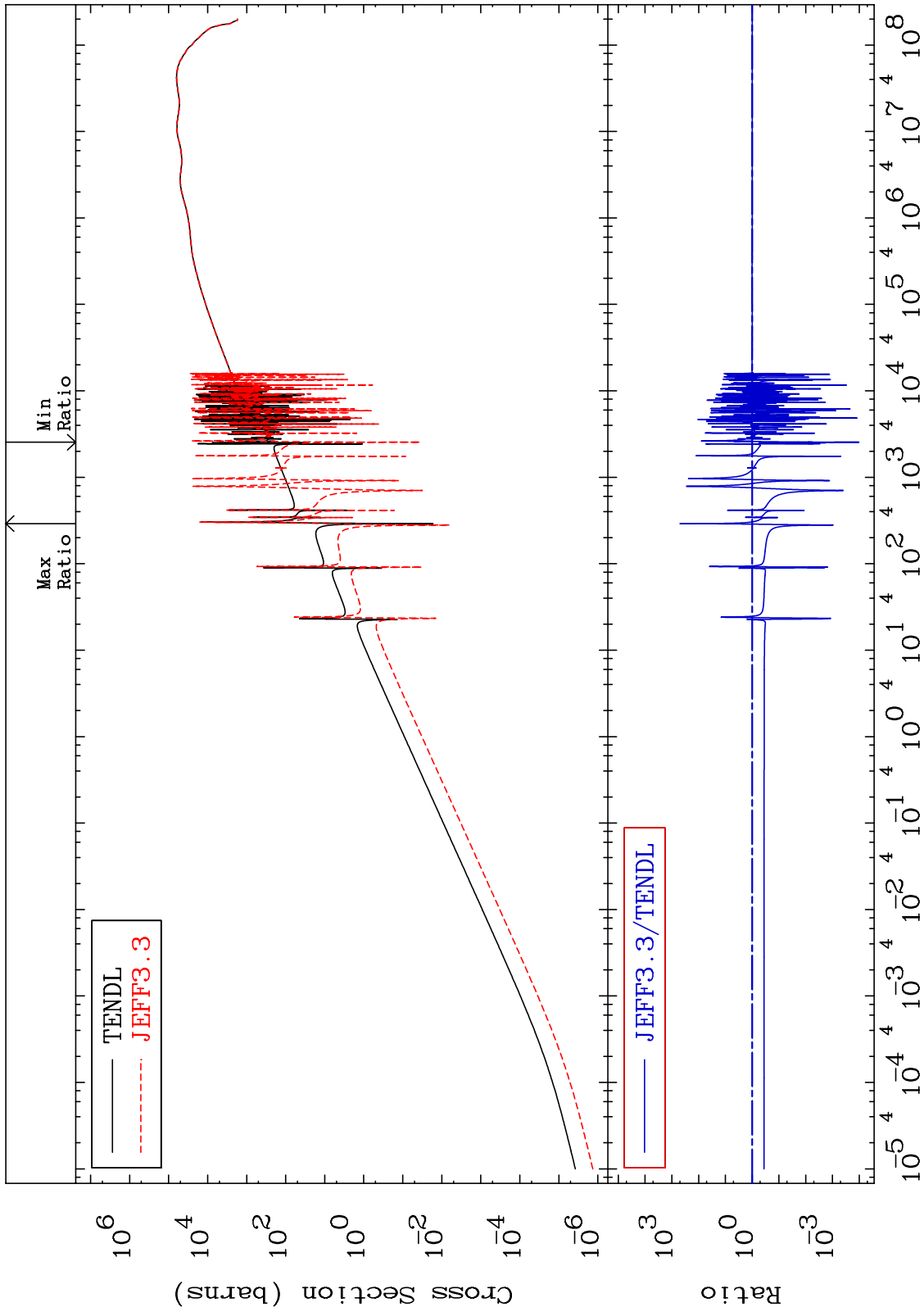
MAT 8031 Kerma total (eV-barns) 80-Hg-198
 Cross Section -99.98 To 9999. %



MAT 8031

Kerma elastic
Cross Section

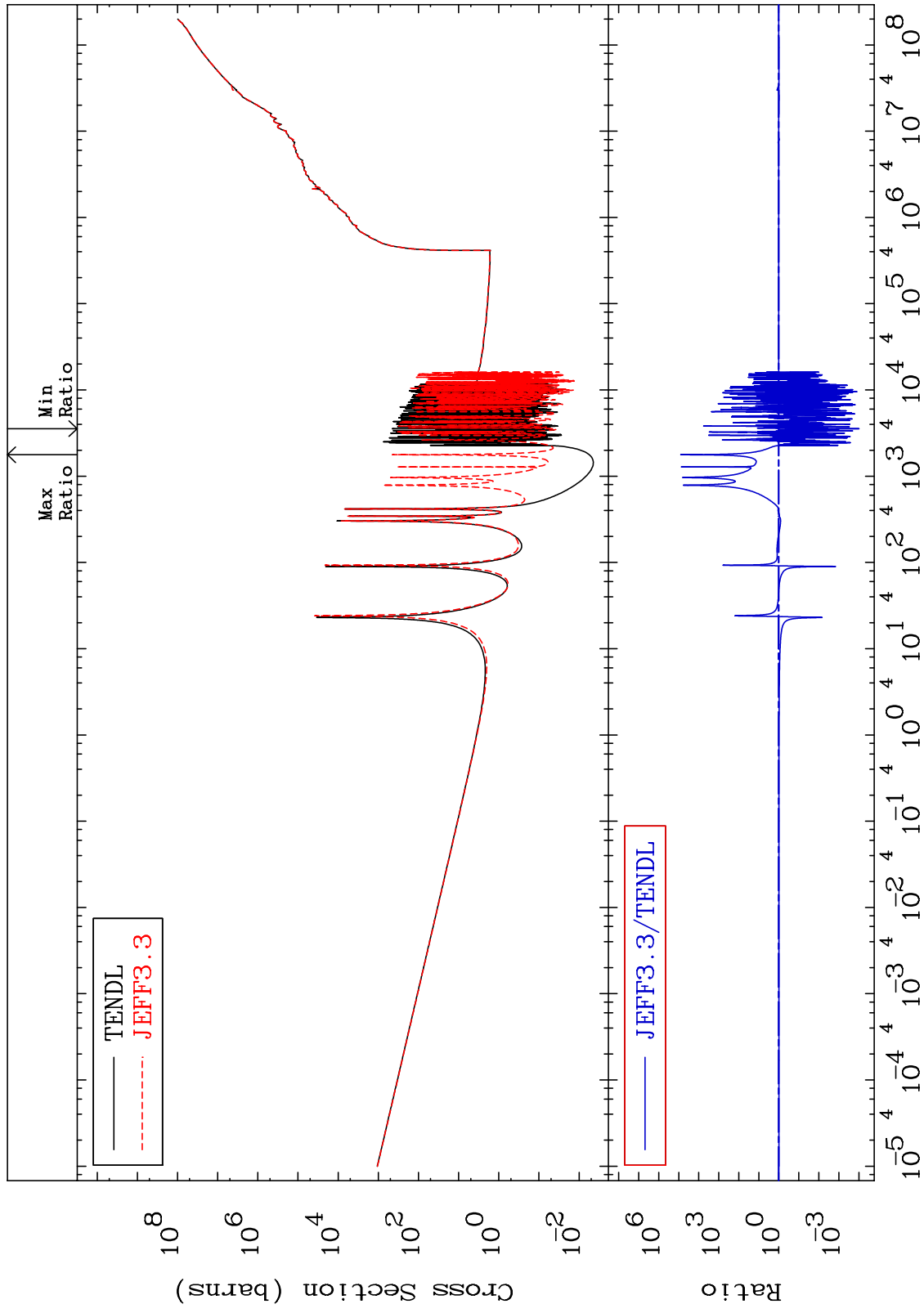
80-Hg-198
-99.99 To 9999. %



MAT 8031

Kerma non-elastic (all but mt2)
Cross Section

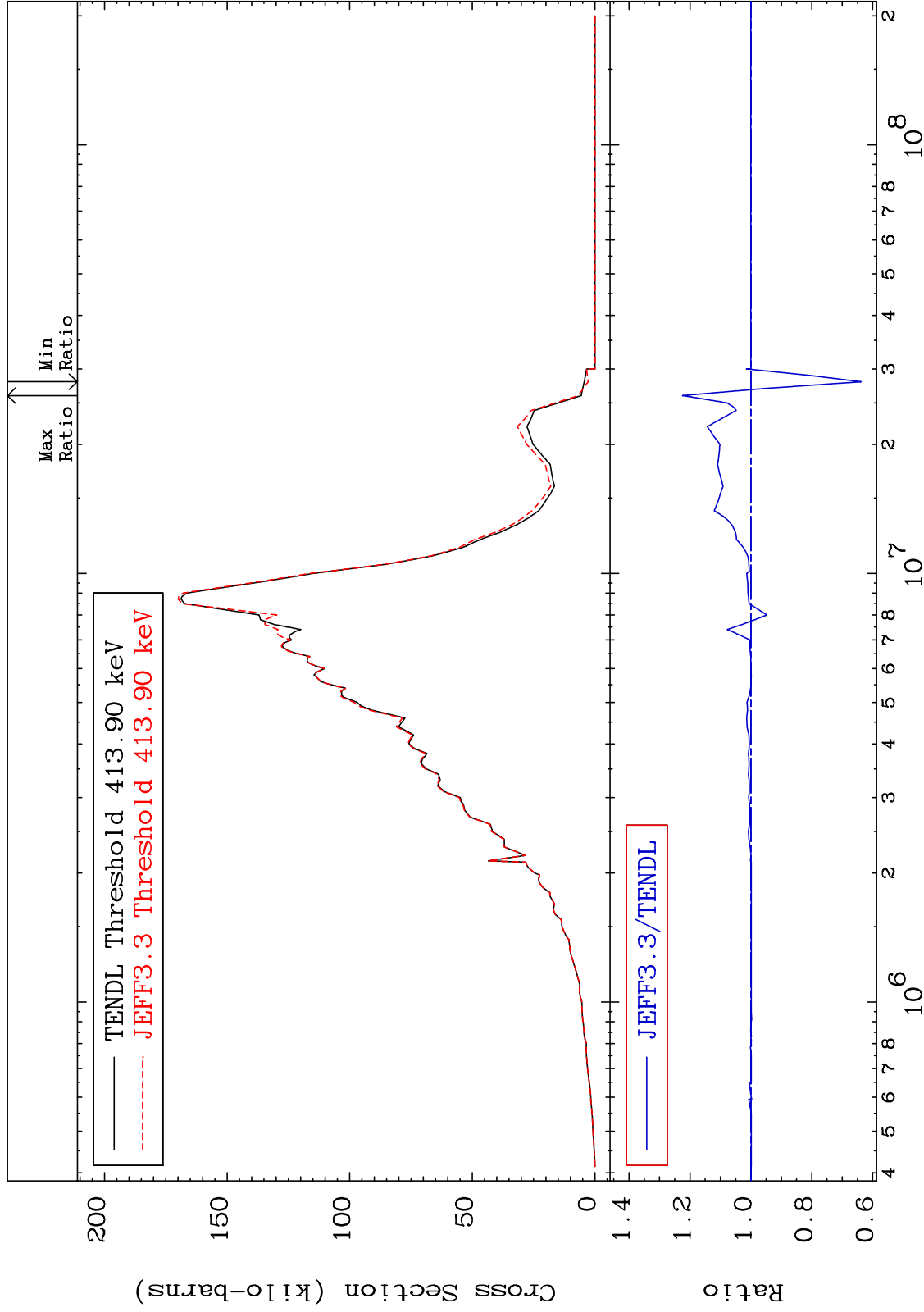
80-Hg-198
-99.99 To 9999. %



MAT 8031

Kerma inelastic (mt51-91)
Cross Section

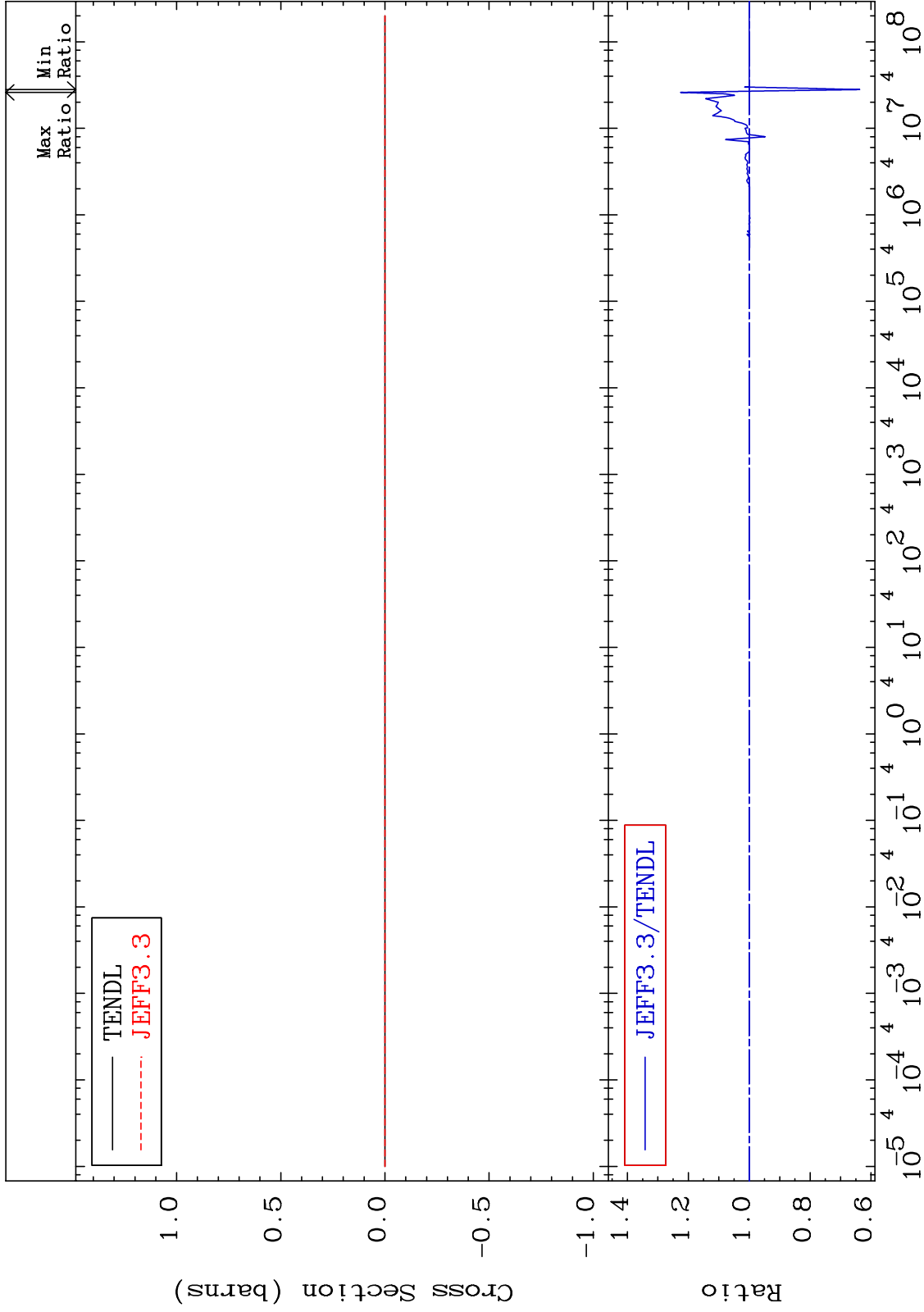
80-Hg-198
-36.25 To 22.46 %



MAT 8031

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

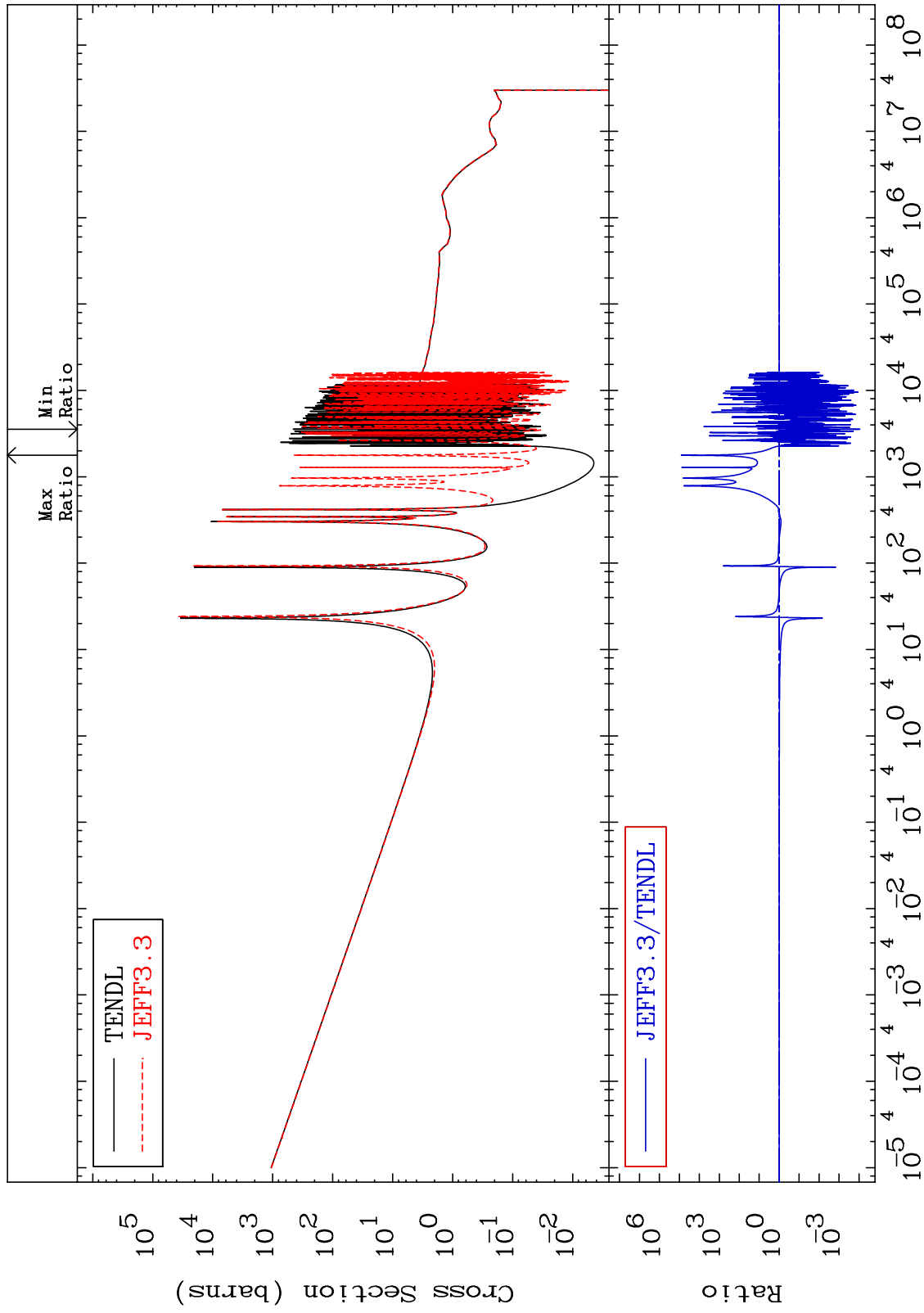
80-Hg-198
-36.25 To 22.46 %



MAT 8031

Kerma capture (mt102)
Cross Section

80-Hg-198
-99.99 To 9999. %



70

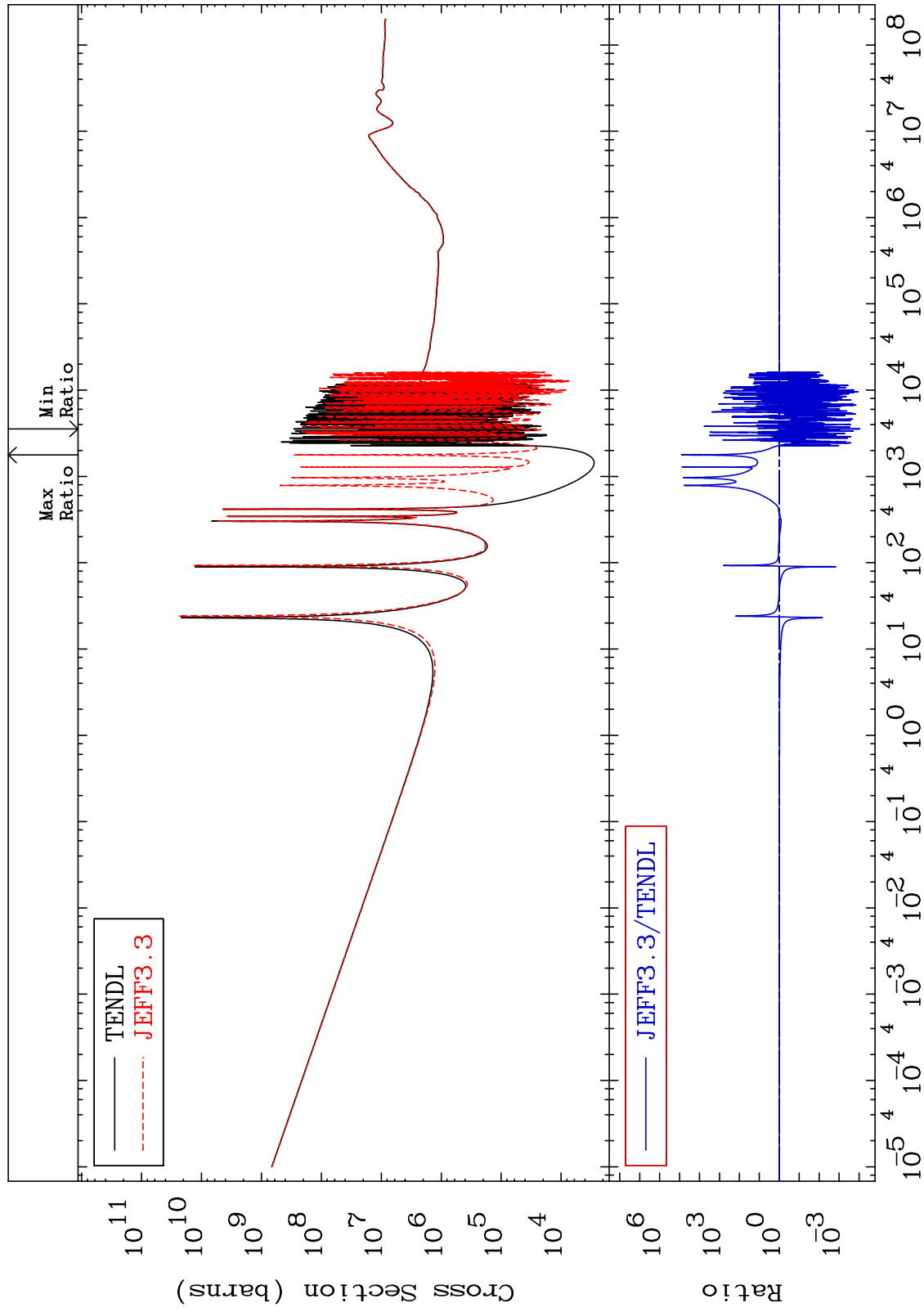
Incident Energy (eV)

80-Hg-198

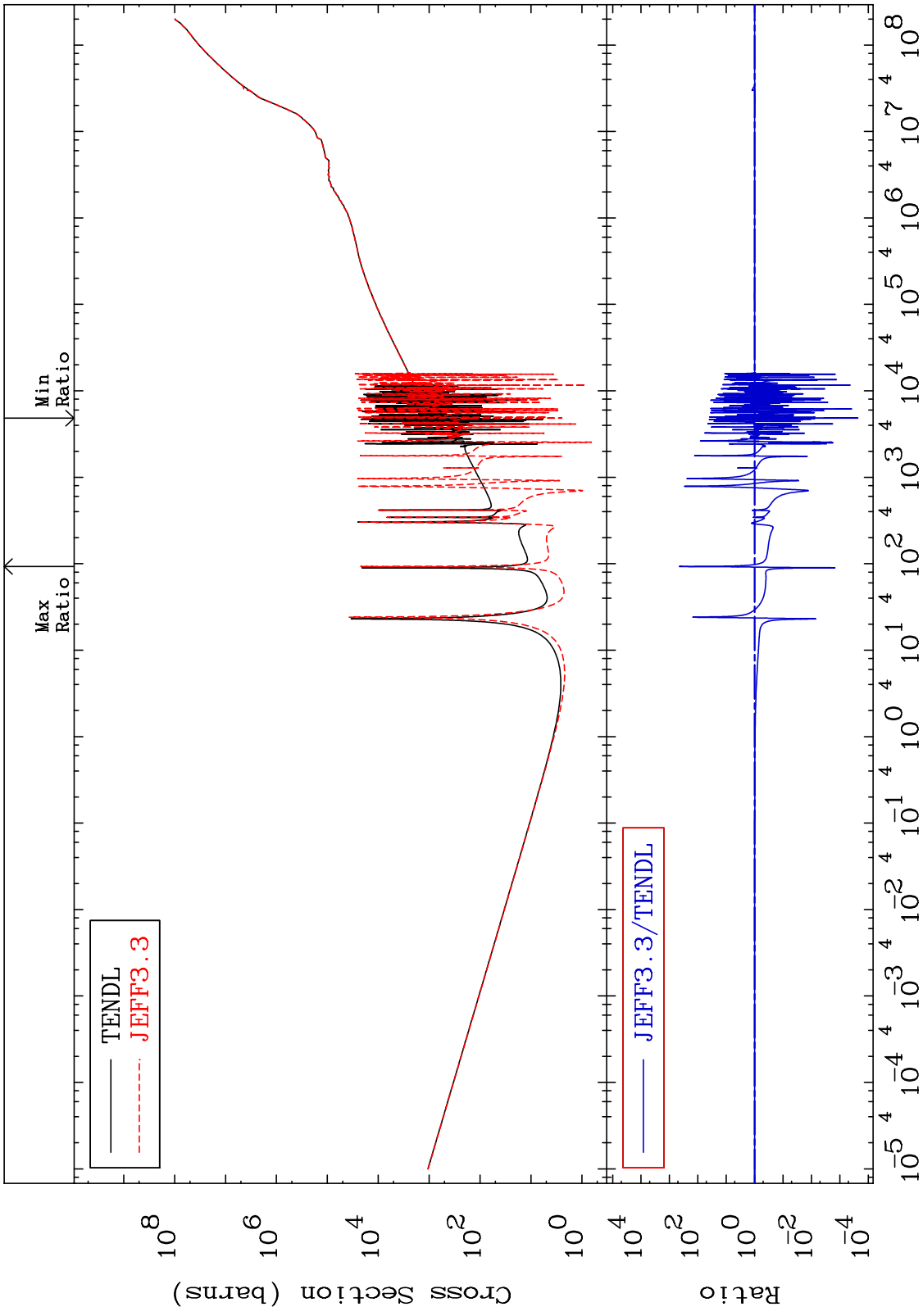
MAT 8031

Total photon (eV-barns)
Cross Section

80-Hg-198
-99.99 To 9999. %



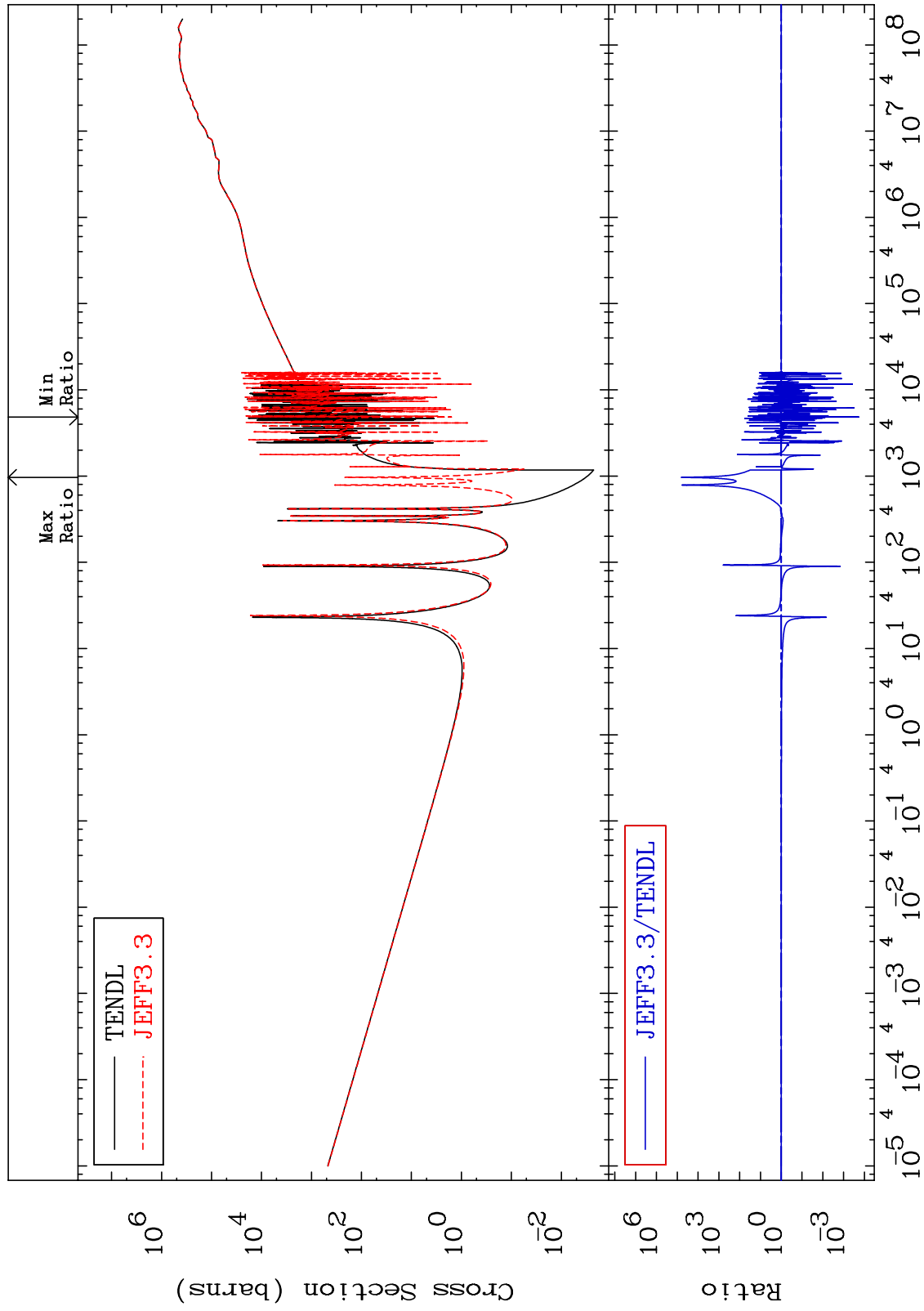
MAT 8031 Total kinematic kerma (high limit) 80-Hg-198
 Cross Section -99.98 To 9999. %



MAT 8031

Dpa total (eV-barns)
Cross Section

80-Hg-198
-99.98 To 9999. %



73

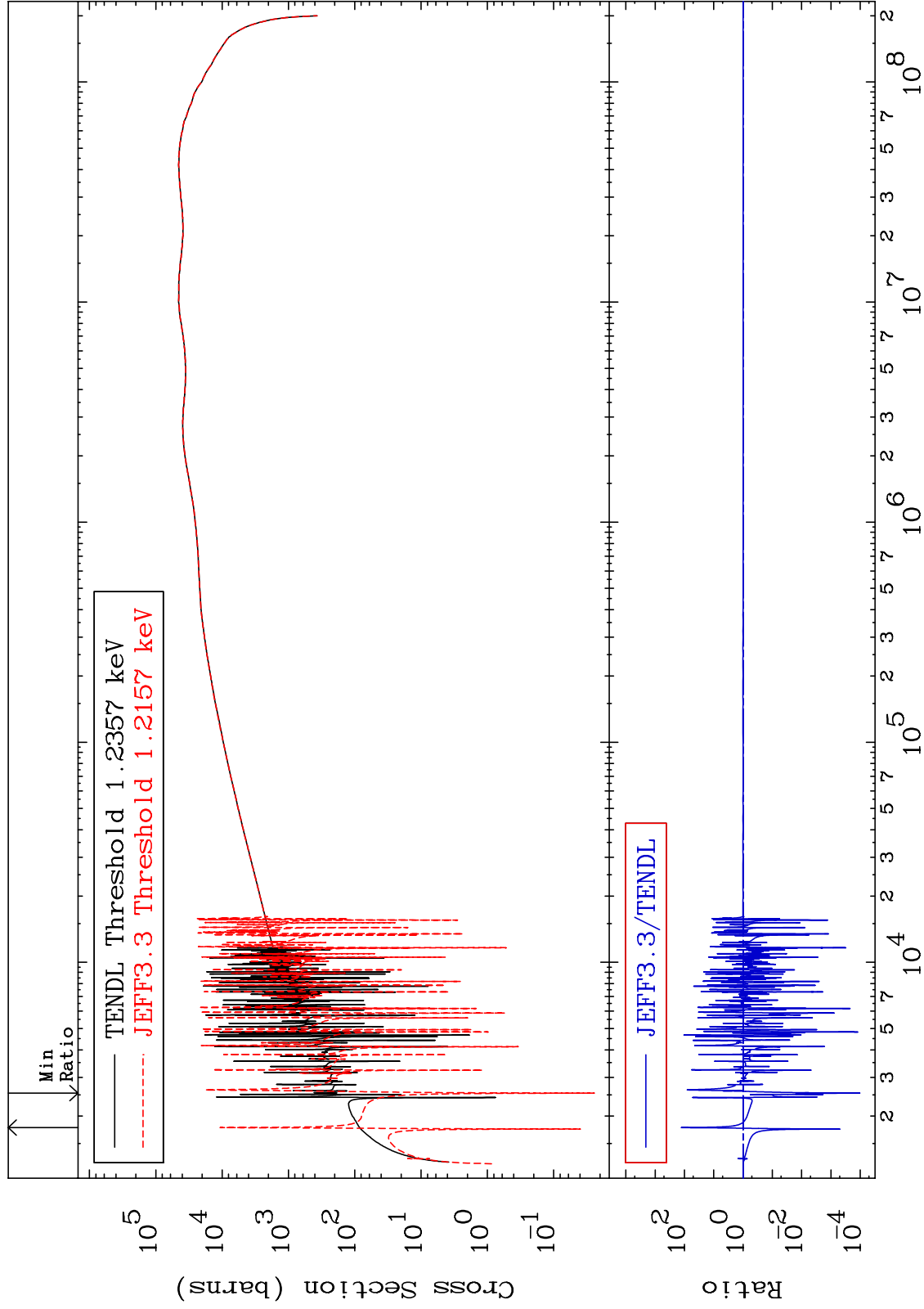
Incident Energy (eV)

80-Hg-198

MAT 8031

Dpa elastic (mt2)
Cross Section

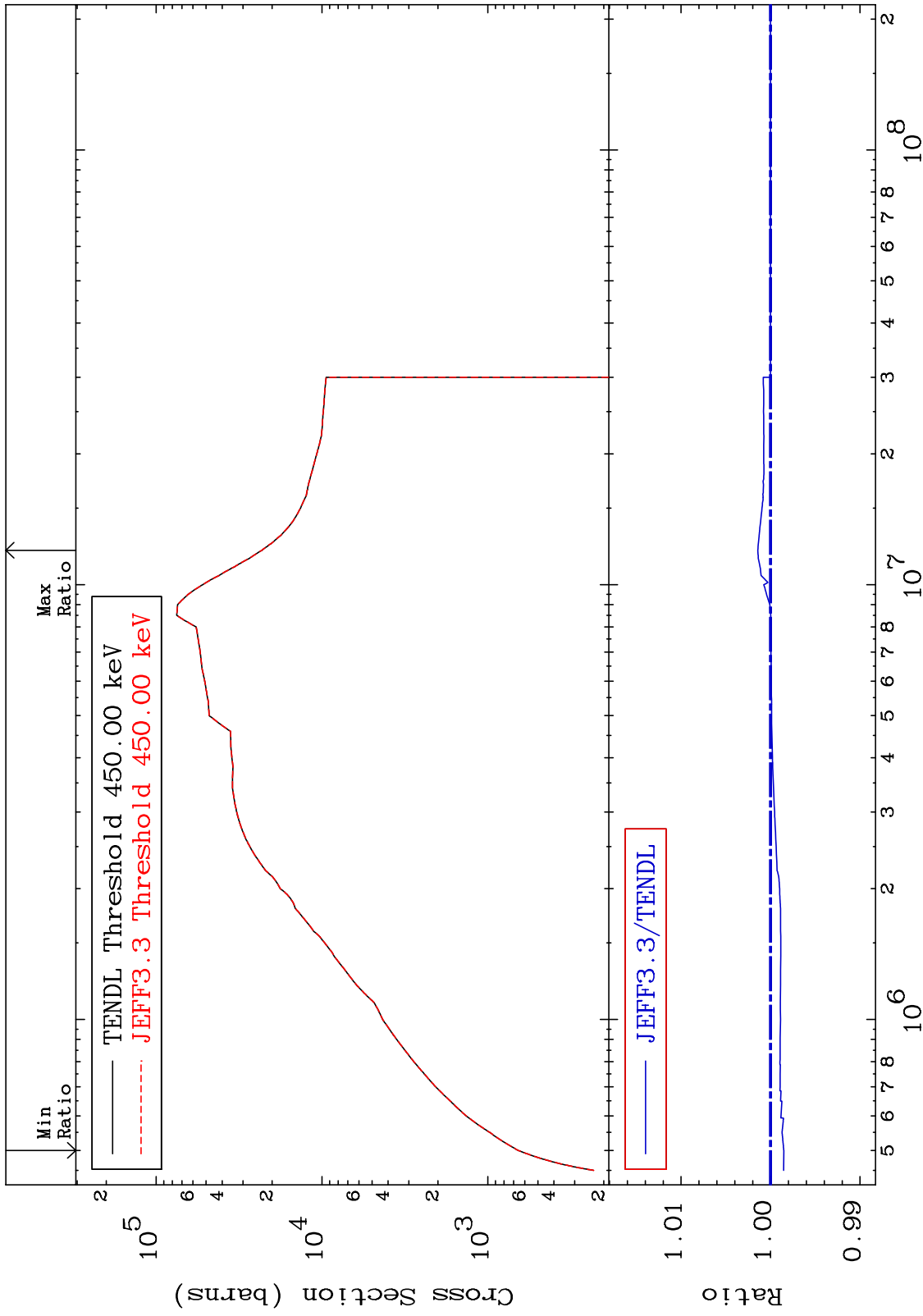
80-Hg-198
-99.99 To 9999. %



MAT 8031

Dpa inelastic (mt51-91)
Cross Section

80-Hg-198
-0.147 To 0.143 %



75

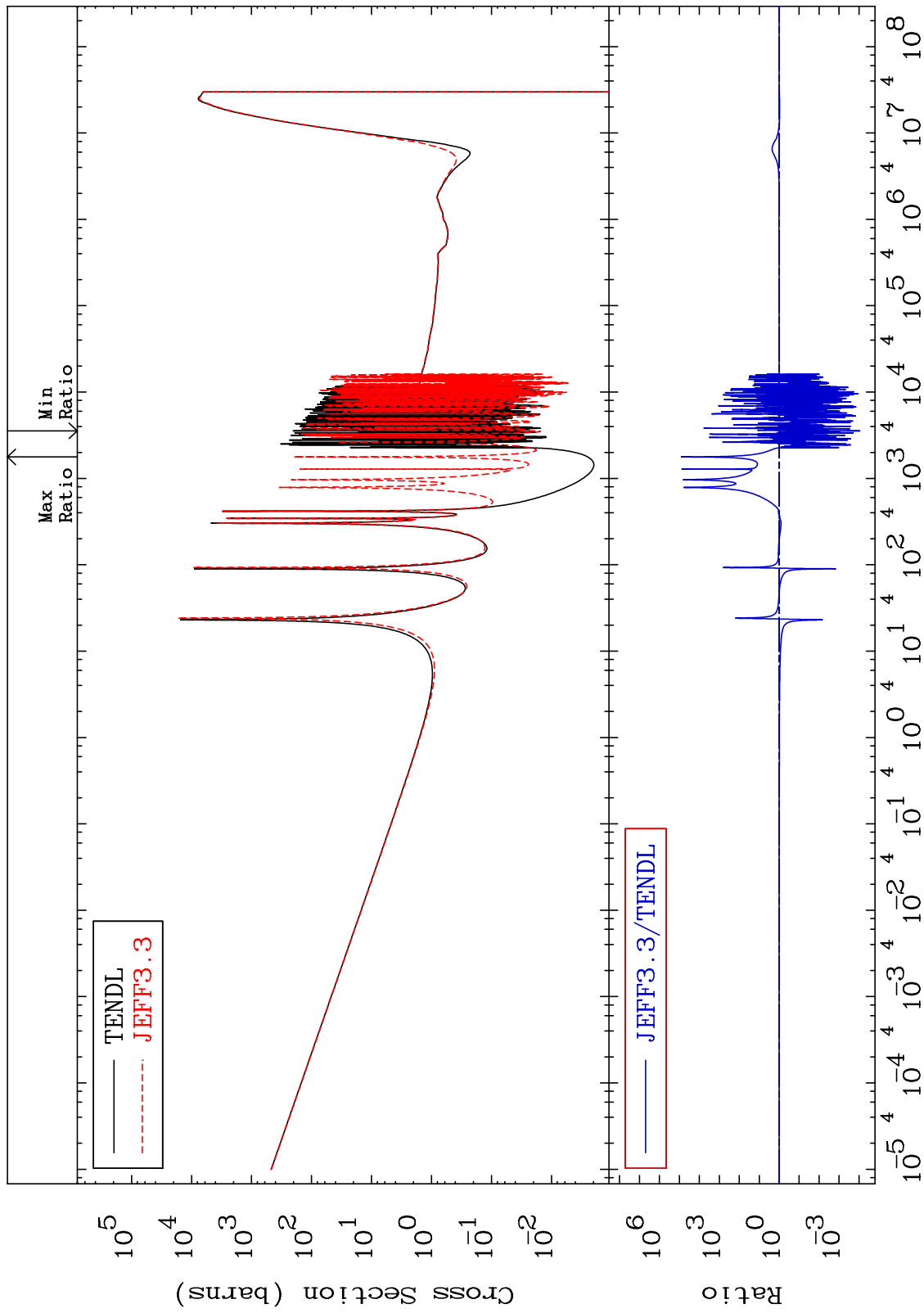
Incident Energy (eV)

80-Hg-198

MAT 8031

Dpa disappearance (mt102 -120)
Cross Section

80-Hg-198
-99.99 To 9999. %



76

Incident Energy (eV)

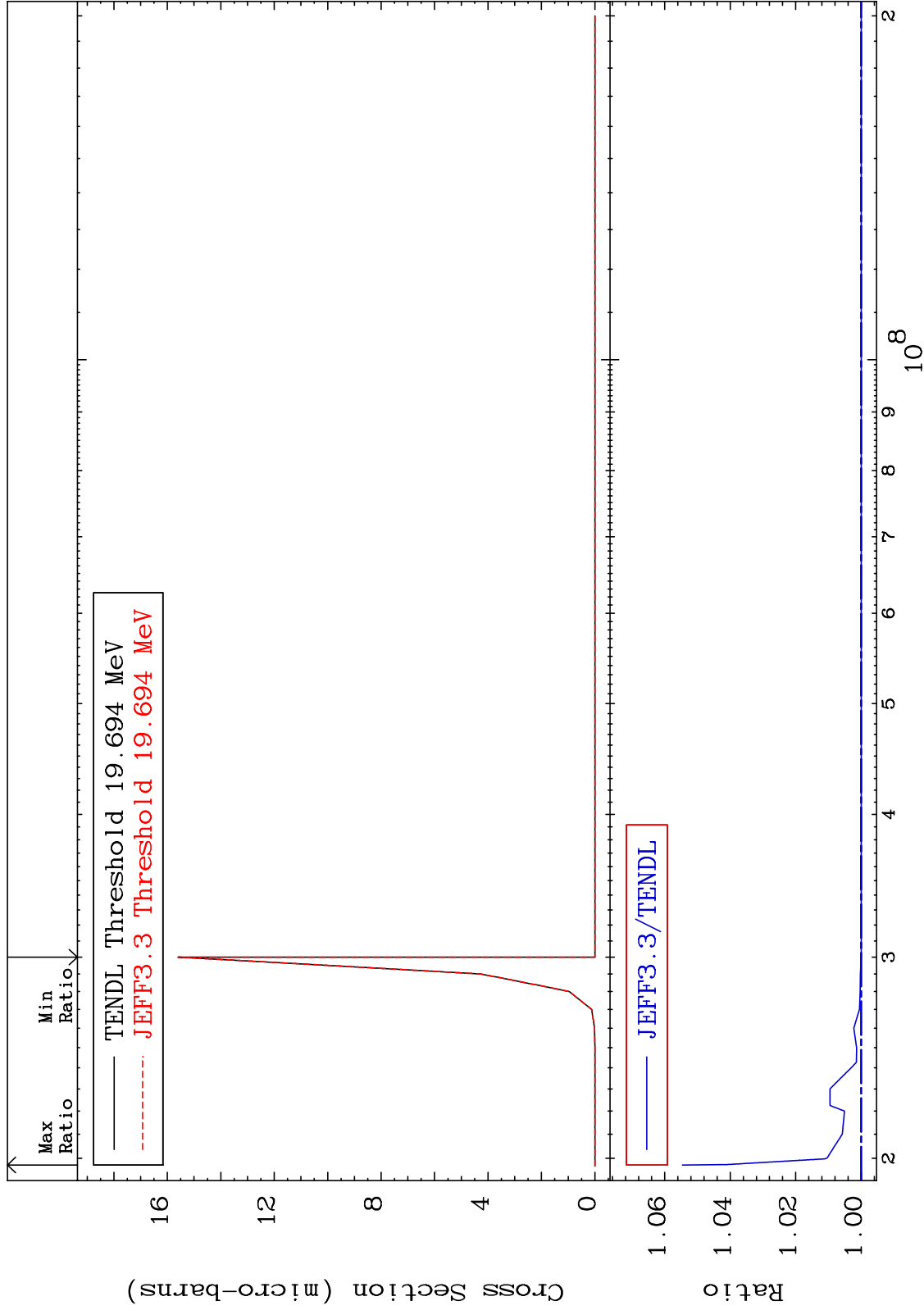
80-Hg-198

MAT 8031

(n,2n) d:79-Au-195g

80-Hg-198

Radionuclide Production Cross Section -0.004 To 5.459 %



77

Incident Energy (eV)

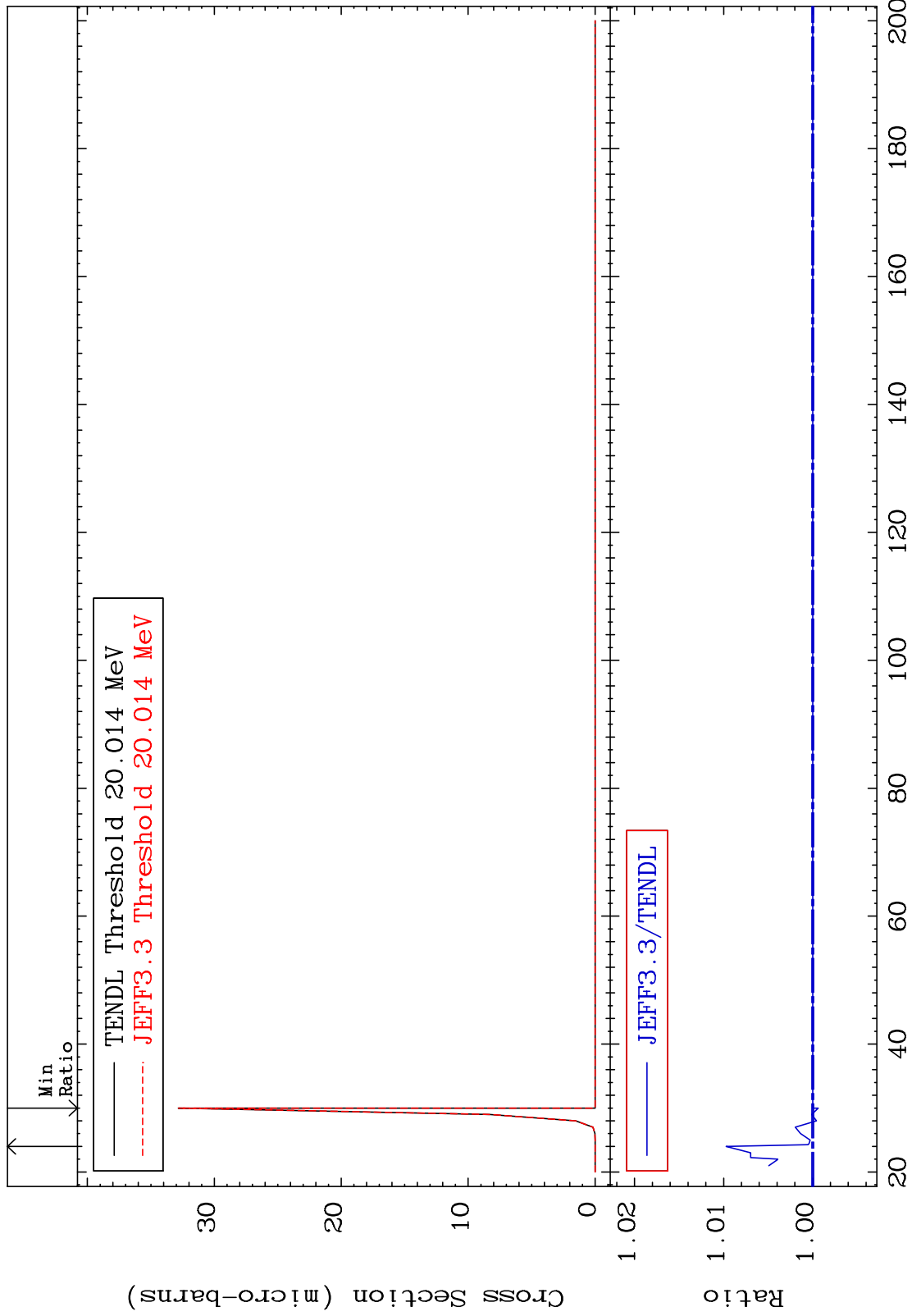
80-Hg-198

MAT 8031

(n,2n) d:79-Au-195m4

80-Hg-198

Radionuclide Production Cross Section -0.062 To 0.972 %



78

Incident Energy (MeV)

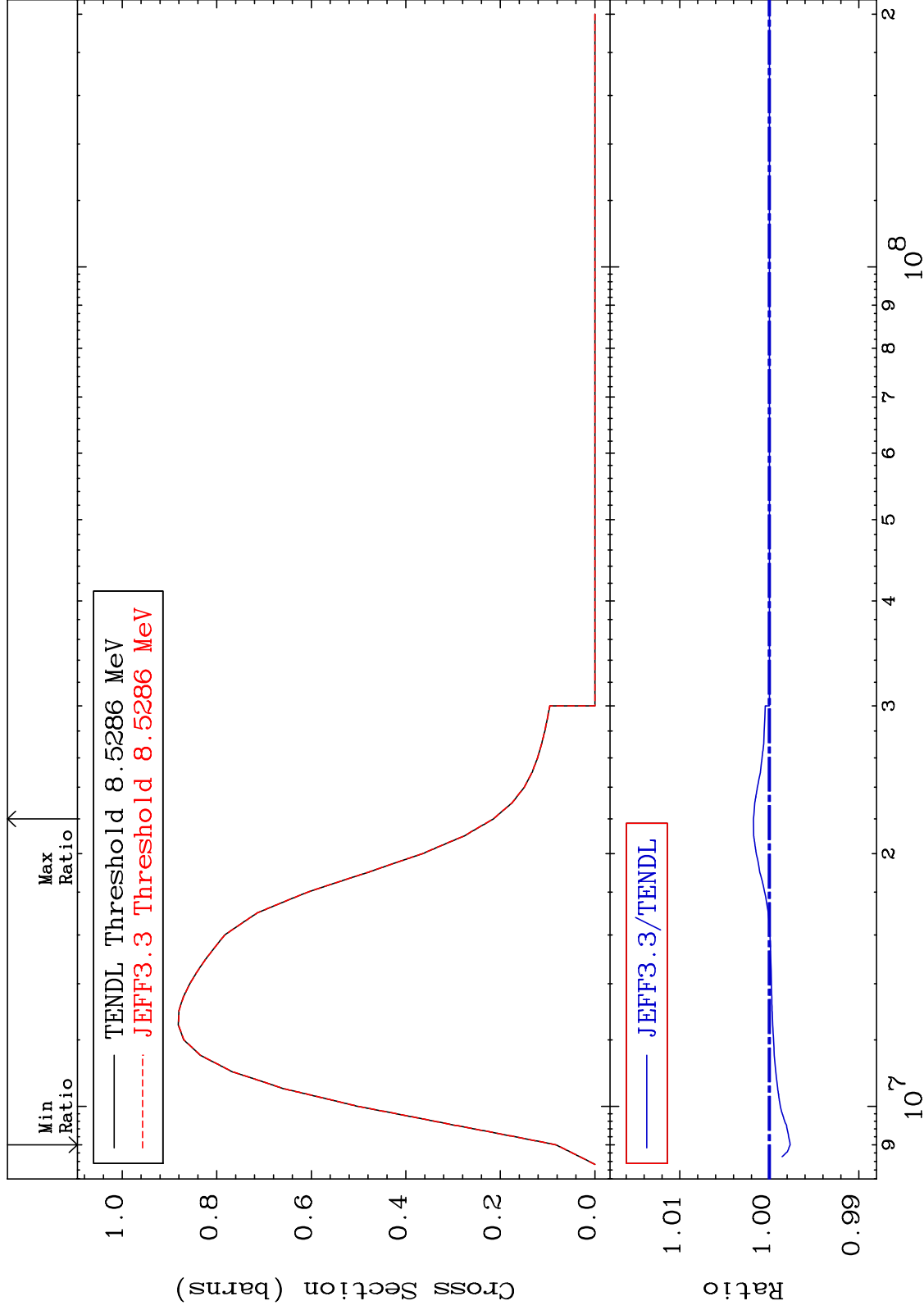
80-Hg-198

MAT 8031

(n,2n):80-Hg-197g

80-Hg-198

Radionuclide Production Cross Section -0.234 To 0.177 %



79

Incident Energy (eV)

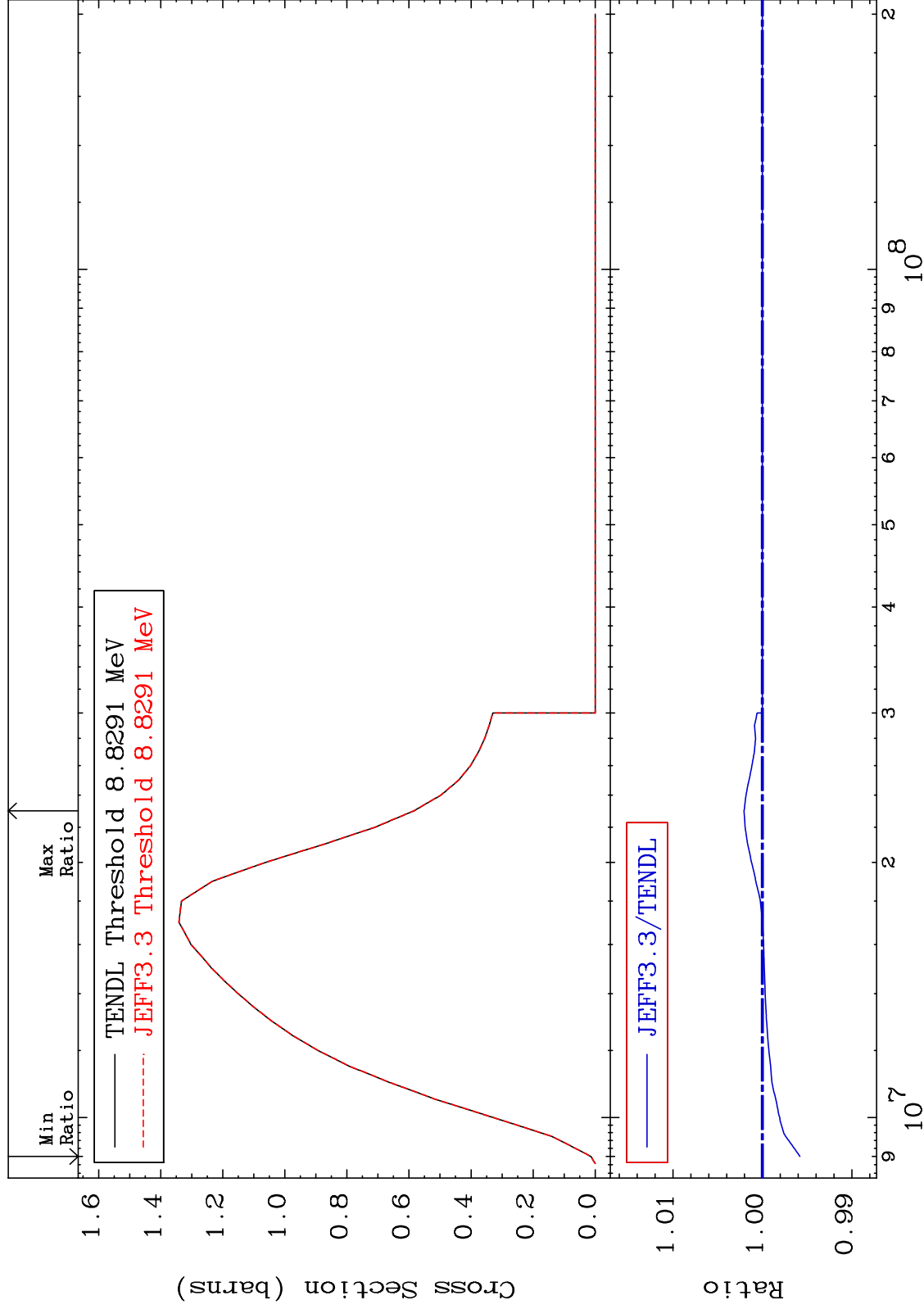
80-Hg-198

MAT 8031

(n,2n):80-Hg-197m4

80-Hg-198

Radionuclide Production Cross Section -0.419 To 0.205 %



80

Incident Energy (eV)

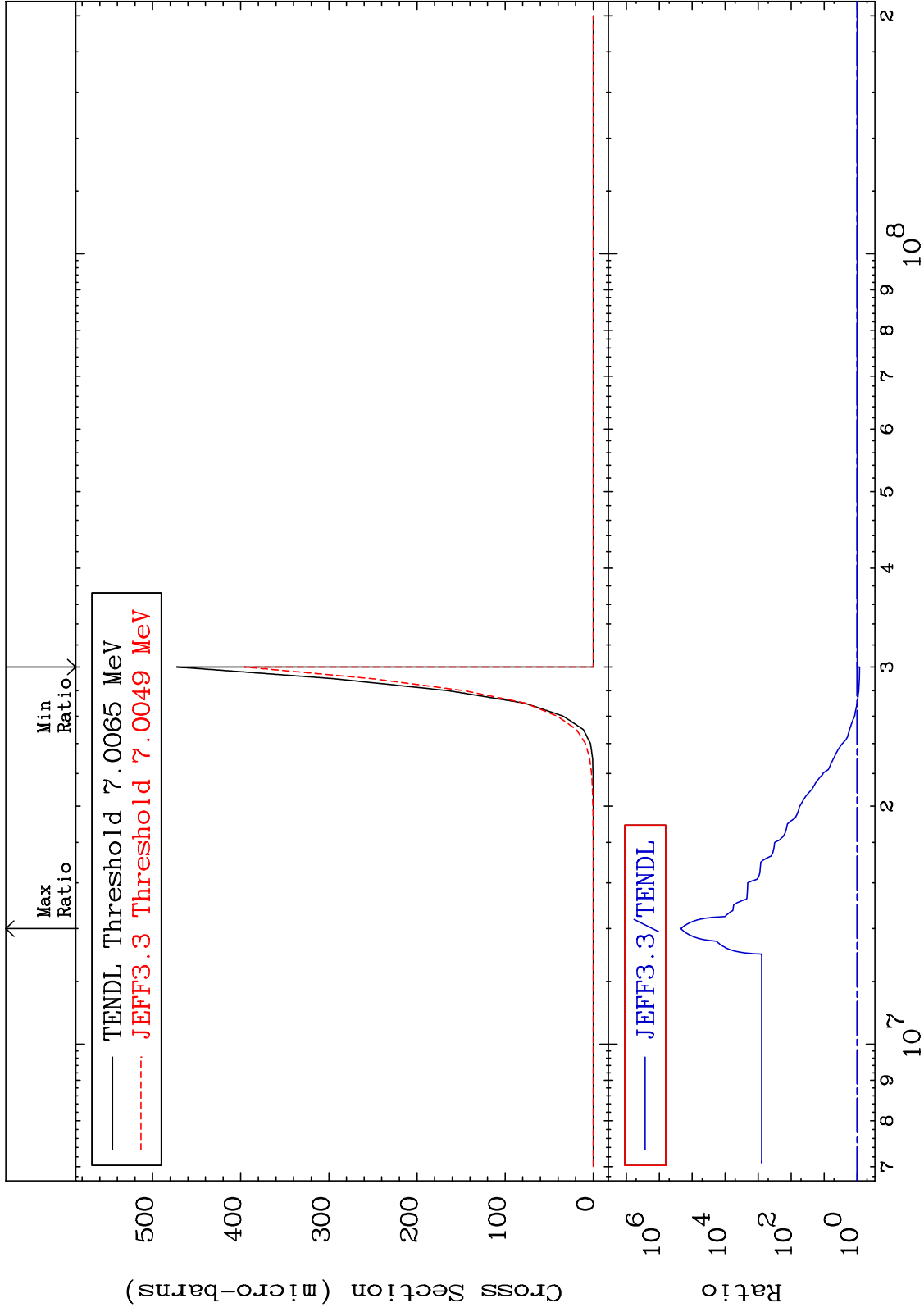
80-Hg-198

MAT 8031

(n,2n) α : 78-Pt-193g

80-Hg-198

Radionuclide Production Cross Section -16.23 To 9999. %



81

Incident Energy (eV)

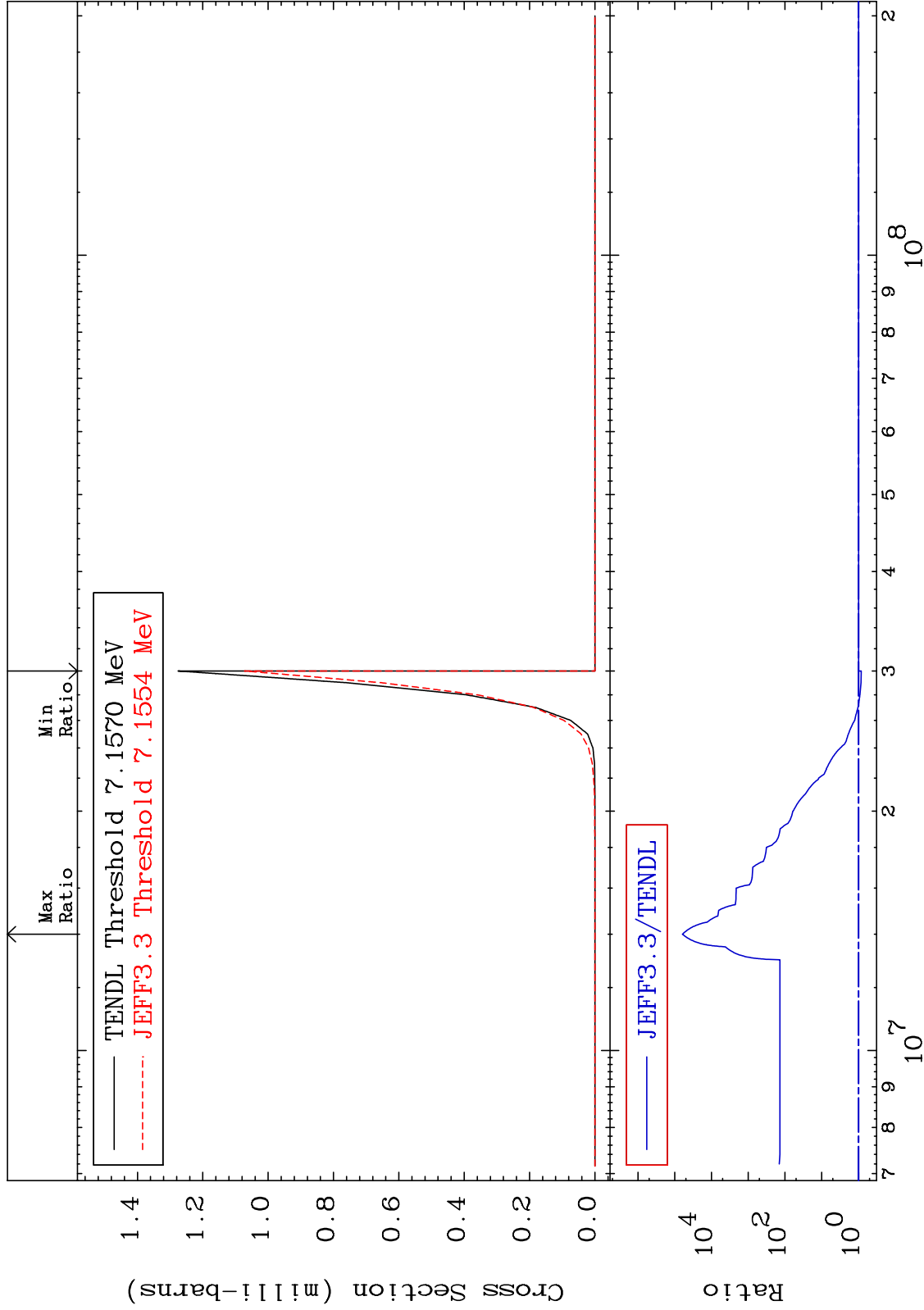
80-Hg-198

MAT 8031

(n,2n) α :78-Pt-193m5

80-Hg-198

Radionuclide Production Cross Section -15.96 To 9999. %

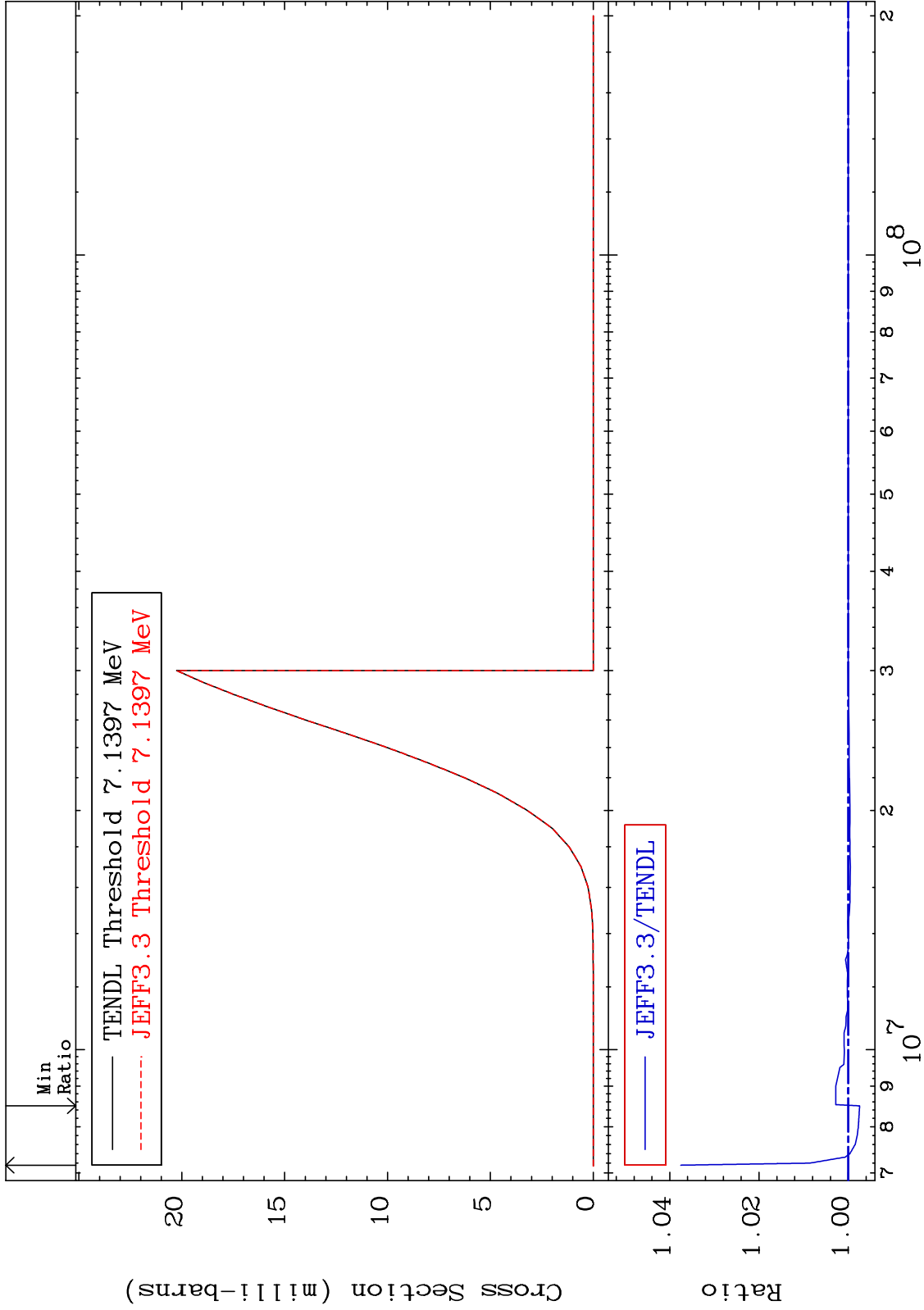


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -0.254 To 3.753 %

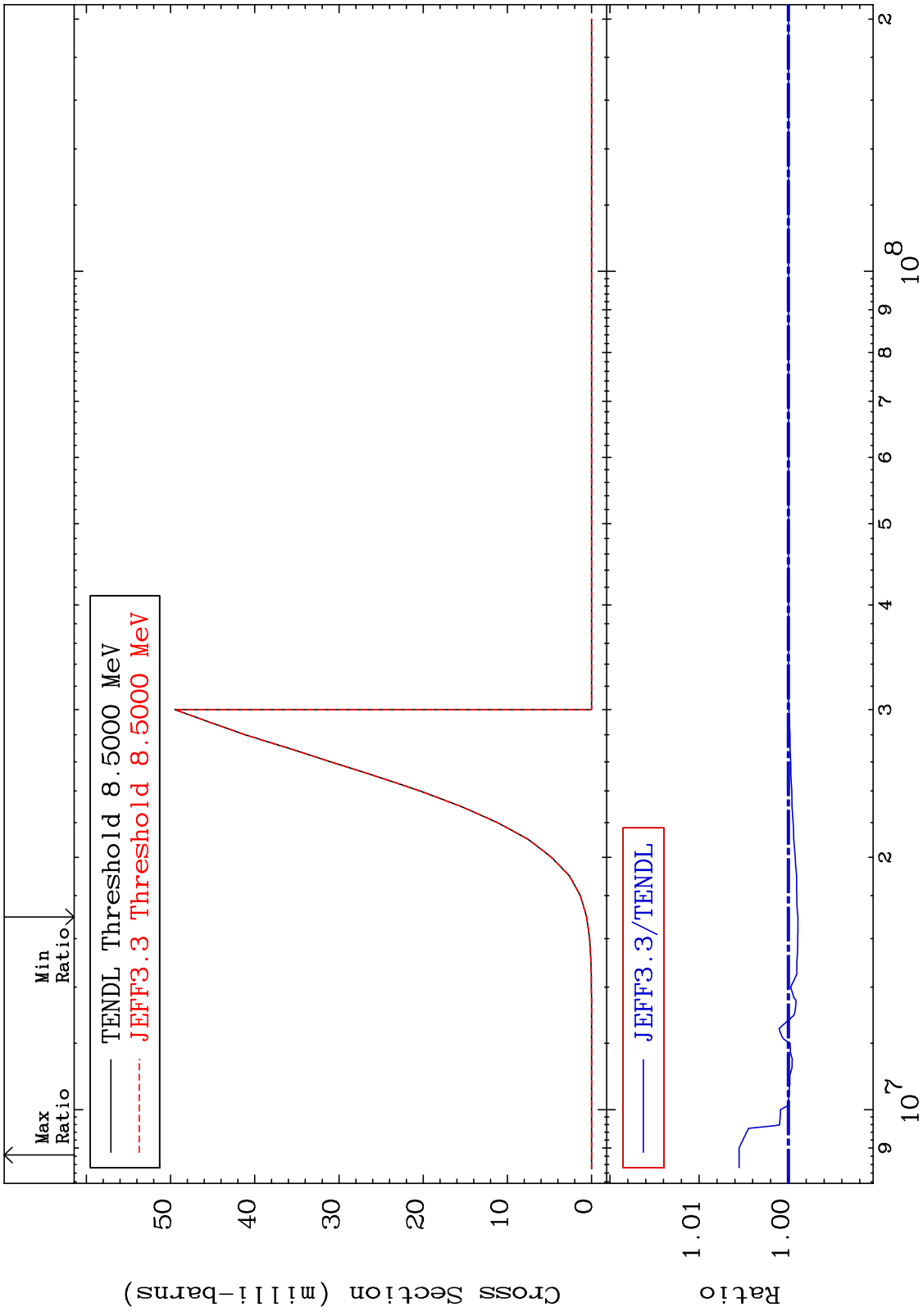


83

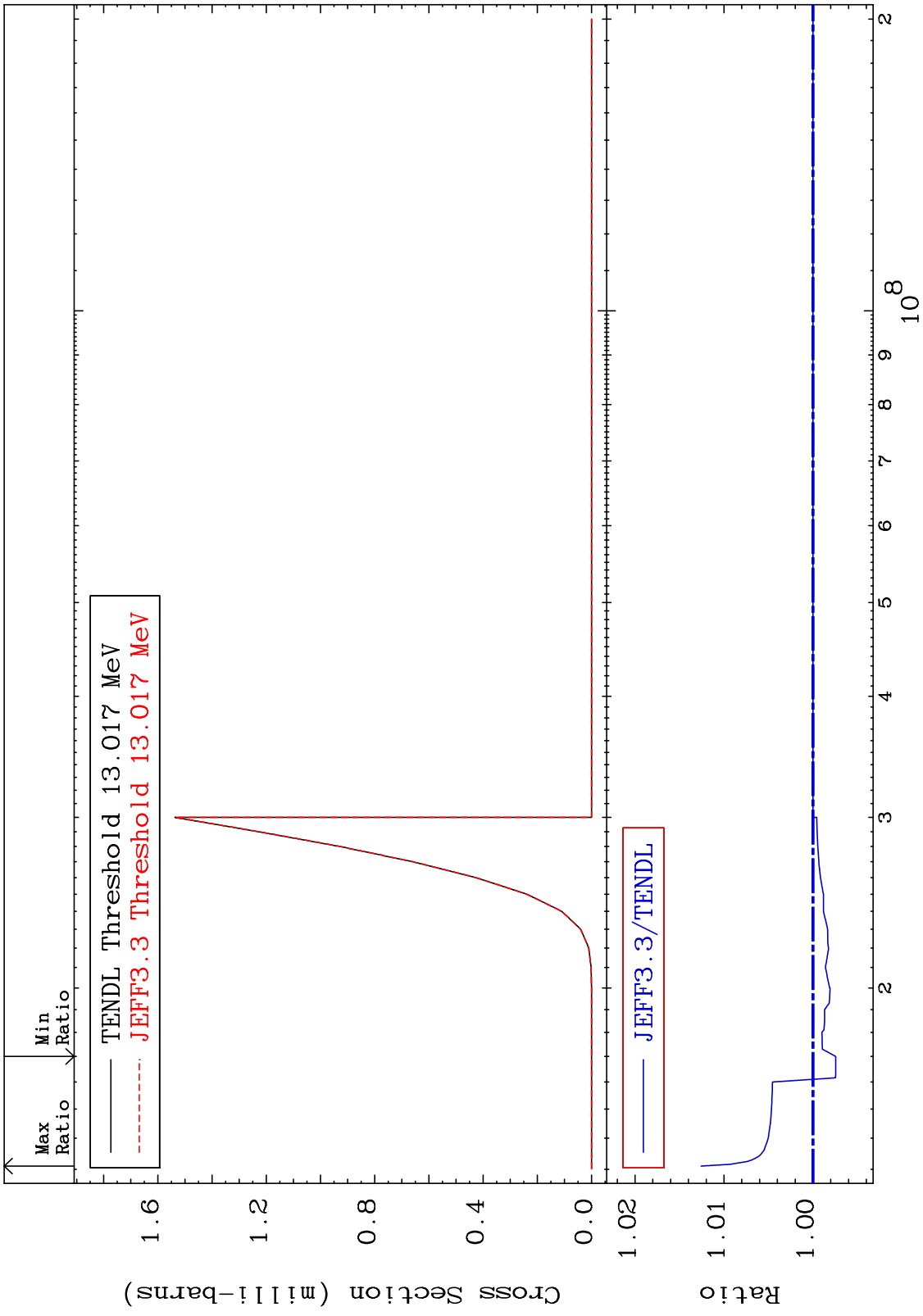
Incident Energy (eV)

80-Hg-198

MAT 8031 (n, n') p:79-Au-197m4 80-Hg-198
 Radionuclide Production Cross Section -0.106 To 0.553 %



MAT 8031 (n, n') d:79-Au-196g 80-Hg-198
 Radionuclide Production Cross Section -0.256 To 1.257 %

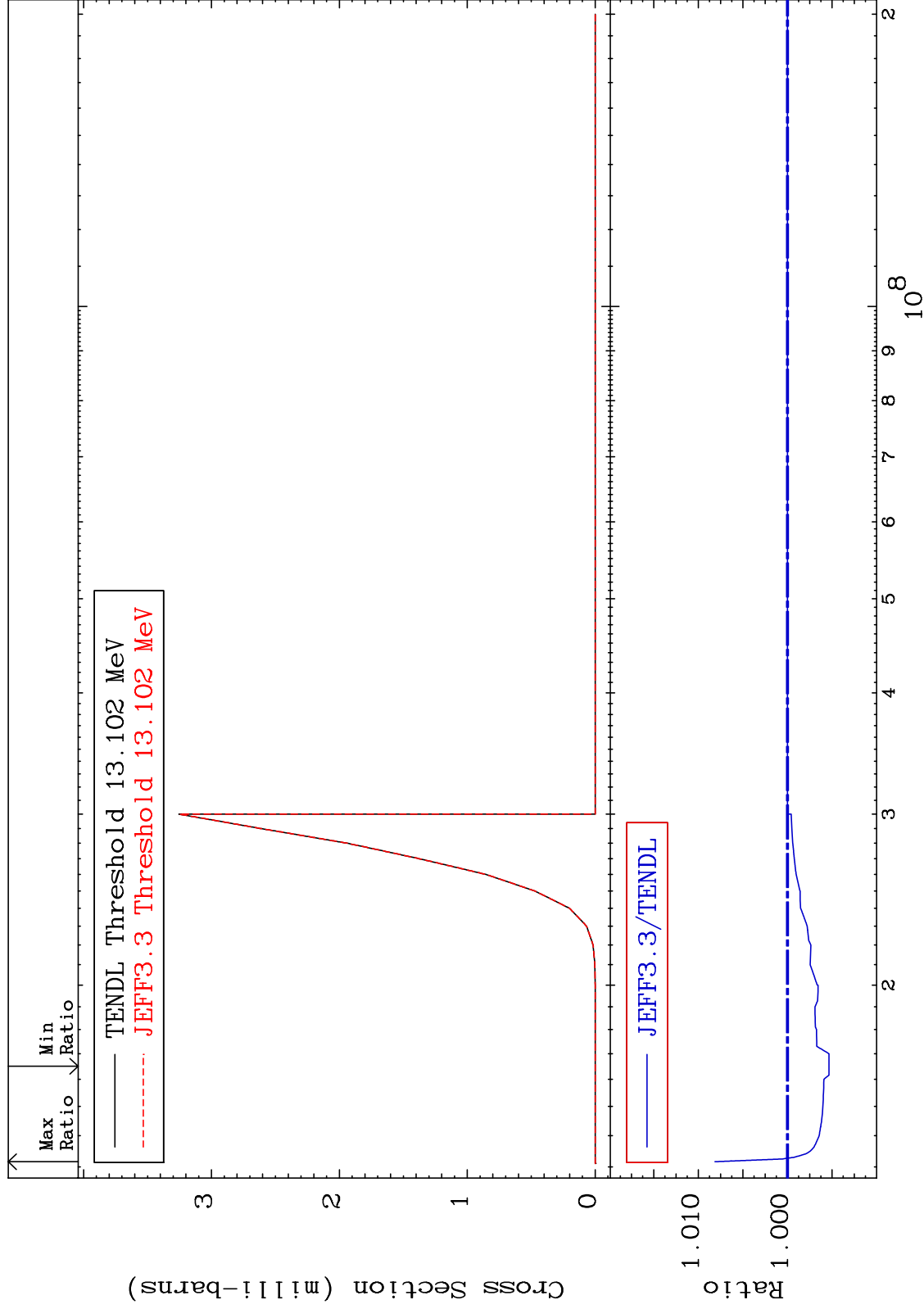


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -0.465 To 0.812 %

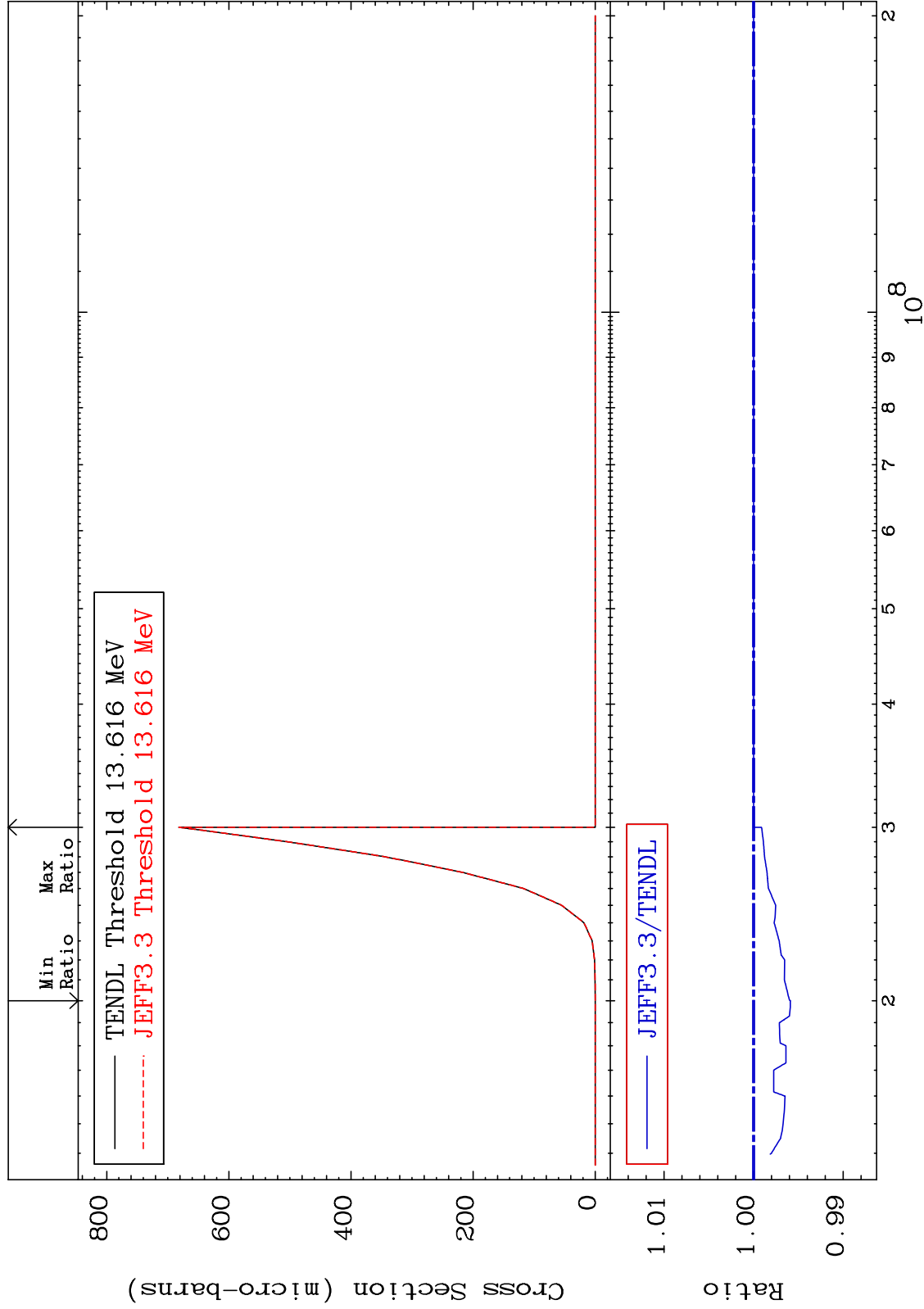


MAT 8031

(n, n') d:79-Au-196m5

80-Hg-198

Radionuclide Production Cross Section -0.411 To 0.000 %



87

Incident Energy (eV)

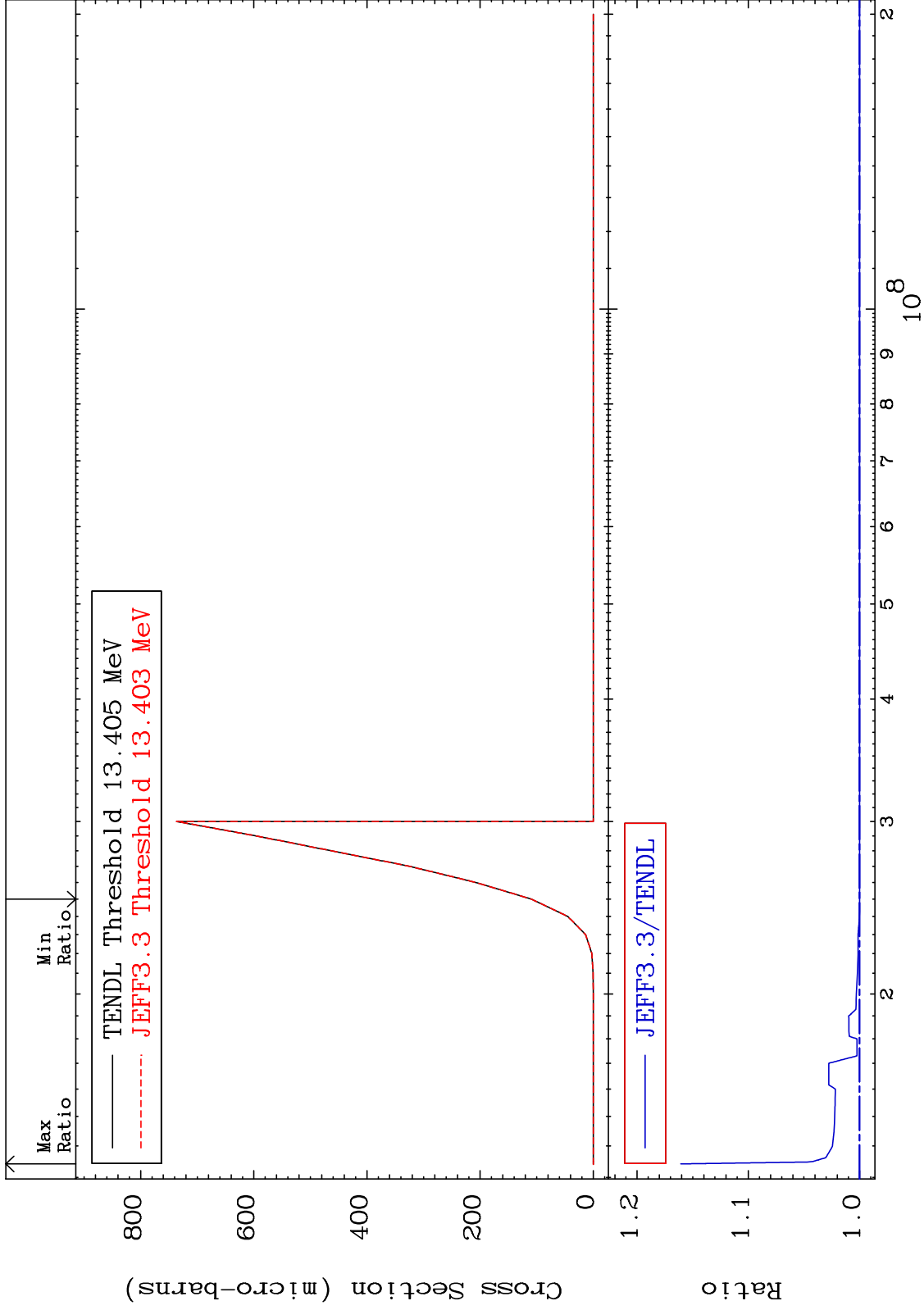
80-Hg-198

MAT 8031

(n, n') t: 79-Au-195g

80-Hg-198

Radionuclide Production Cross Section -0.008 To 16.07 %

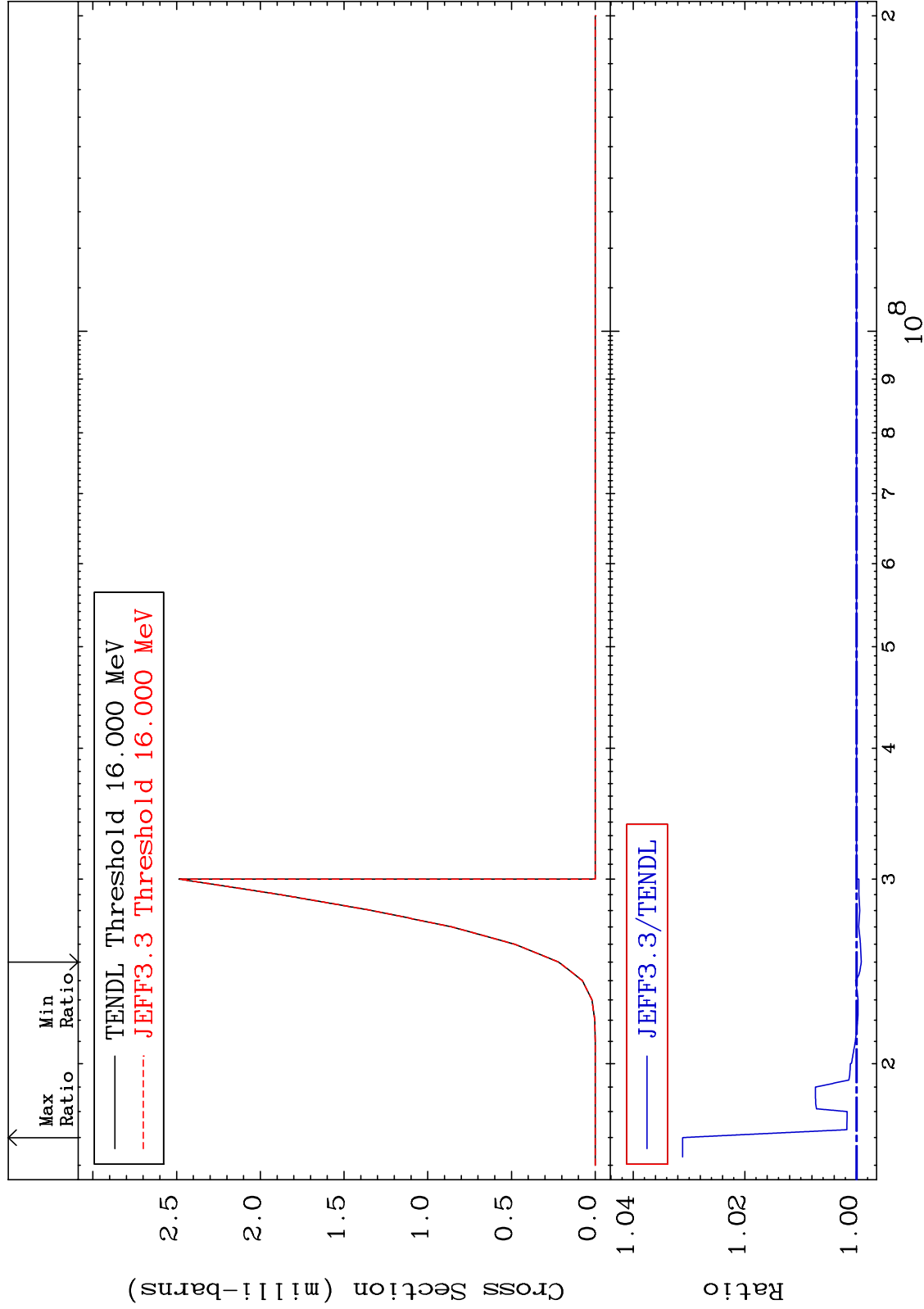


MAT 8031

(n,n') t:79-Au-195m4

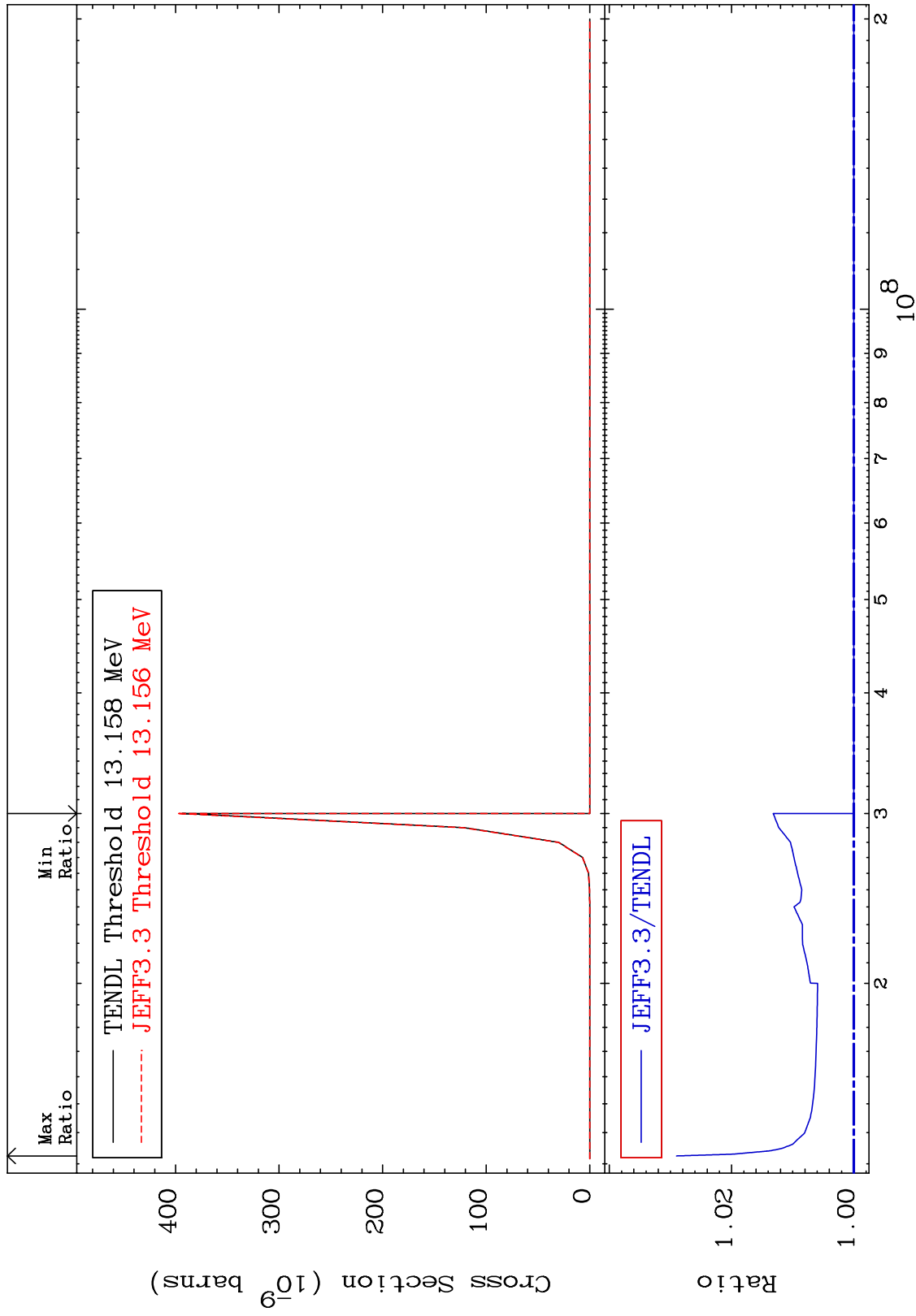
80-Hg-198

Radionuclide Production Cross Section -0.086 To 3.114 %



MAT 8031

(n, n') He-3:78-Pt-195g 80-Hg-198
Radionuclide Production Cross Section 0.000 To 2.901 %



90

Incident Energy (eV)

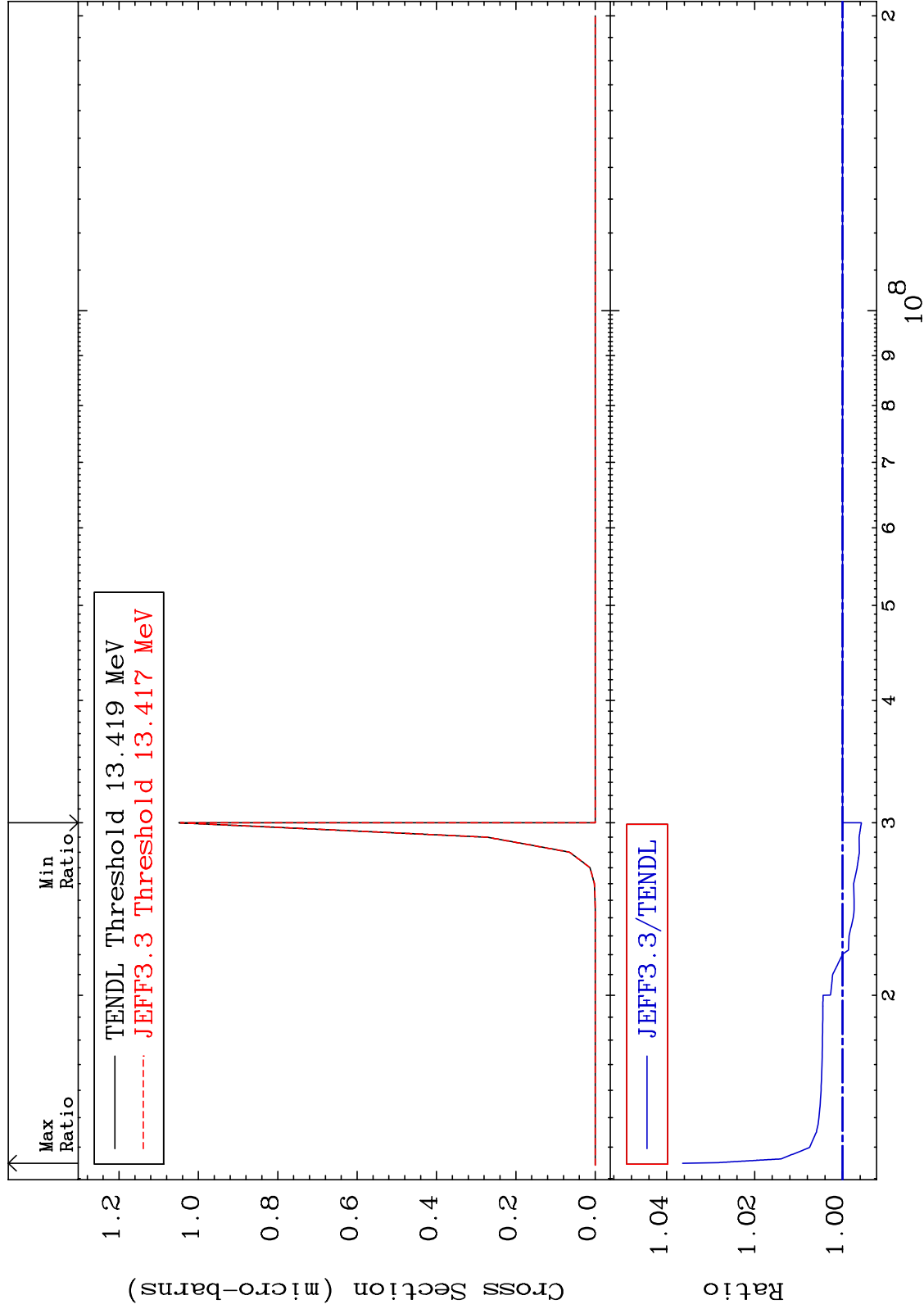
80-Hg-198

MAT 8031

(n, n') He-3:78-Pt-195m7

80-Hg-198

Radionuclide Production Cross Section -0.427 To 3.636 %

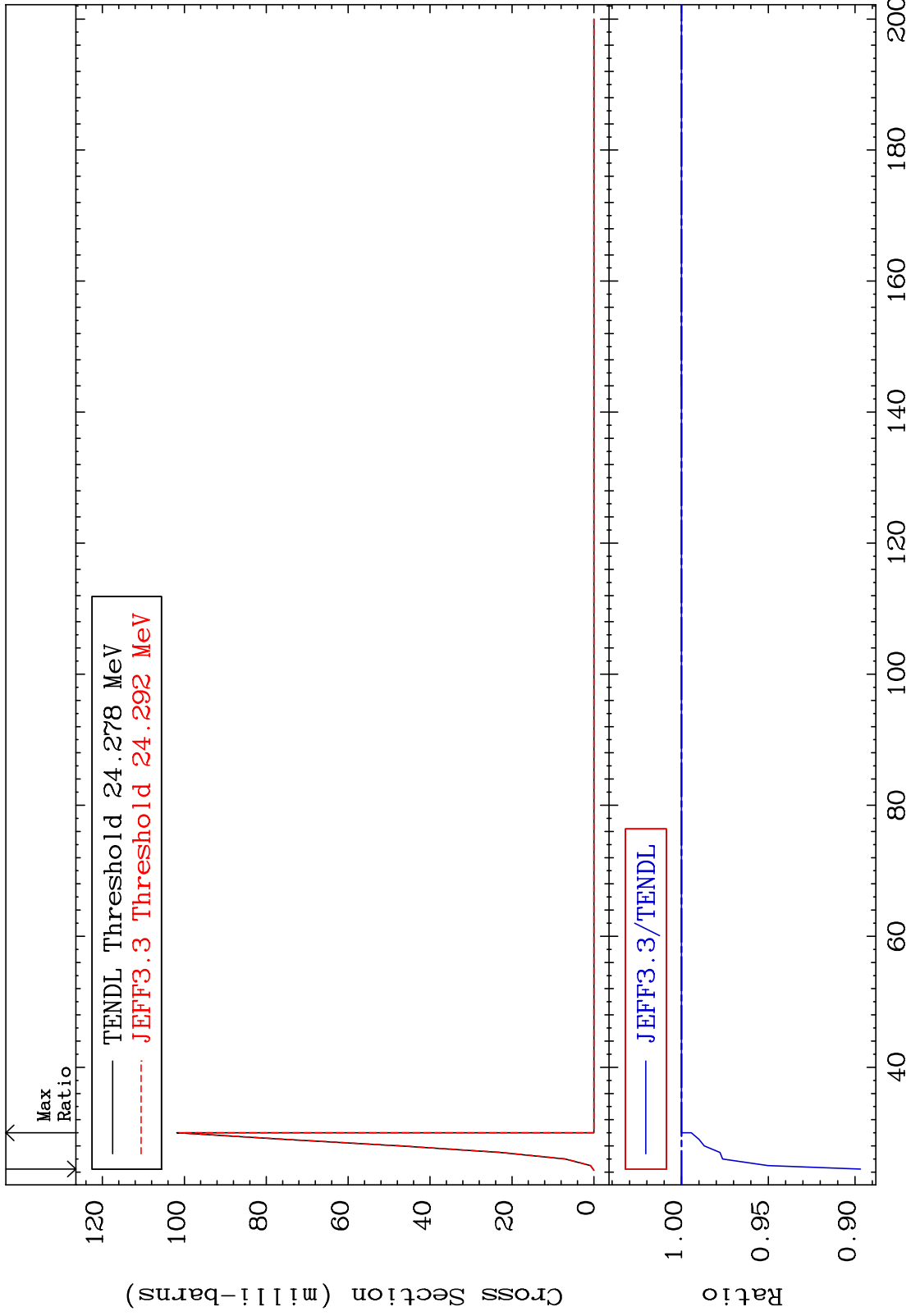


MAT 8031

(n,4n):80-Hg-195g

80-Hg-198

Radionuclide Production Cross Section -10.32 To 0.000 %



92

Incident Energy (MeV)

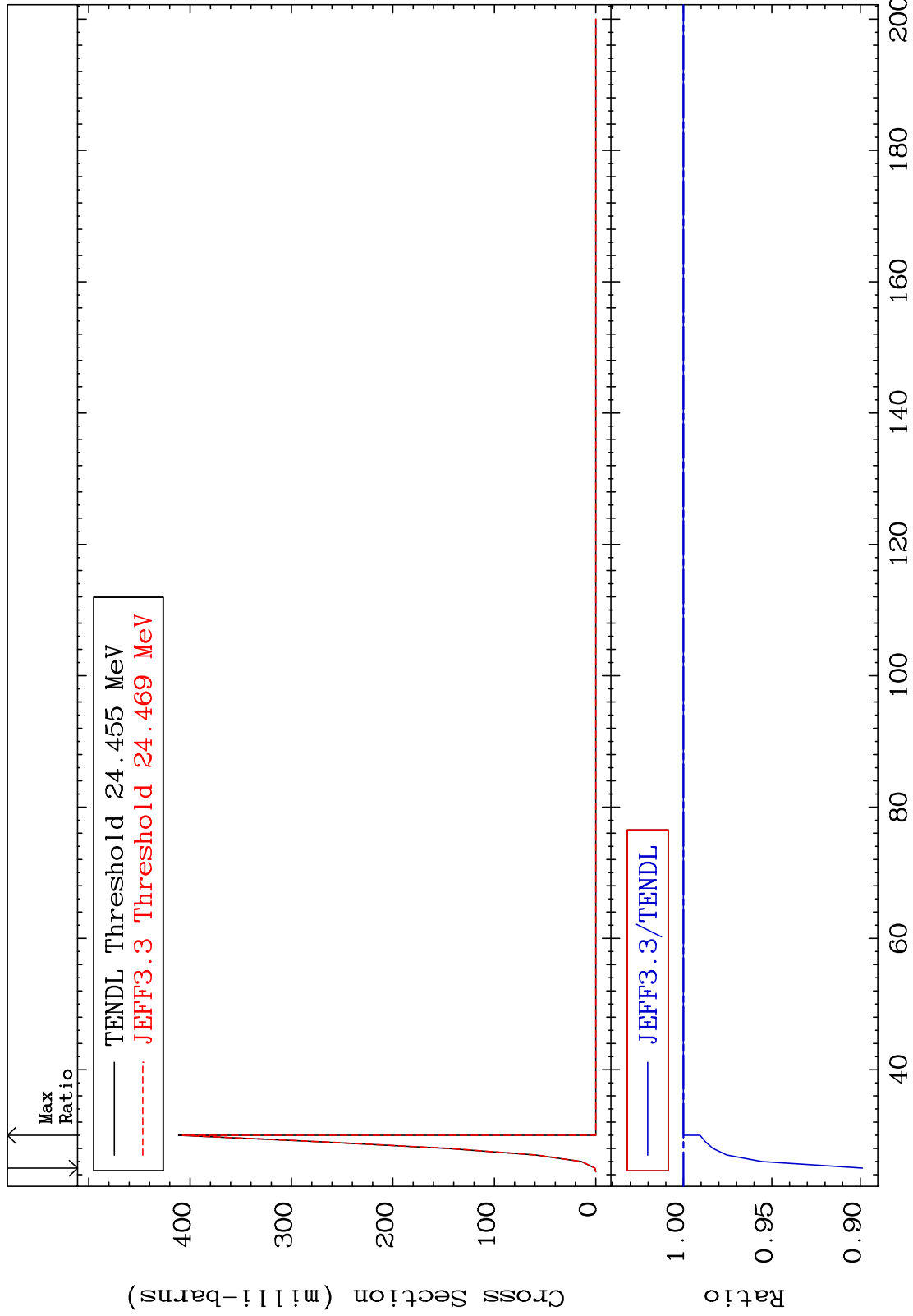
80-Hg-198

MAT 8031

(n,4n):80-Hg-195m3

80-Hg-198

Radionuclide Production Cross Section -10.12 To 0.000 %



93

Incident Energy (MeV)

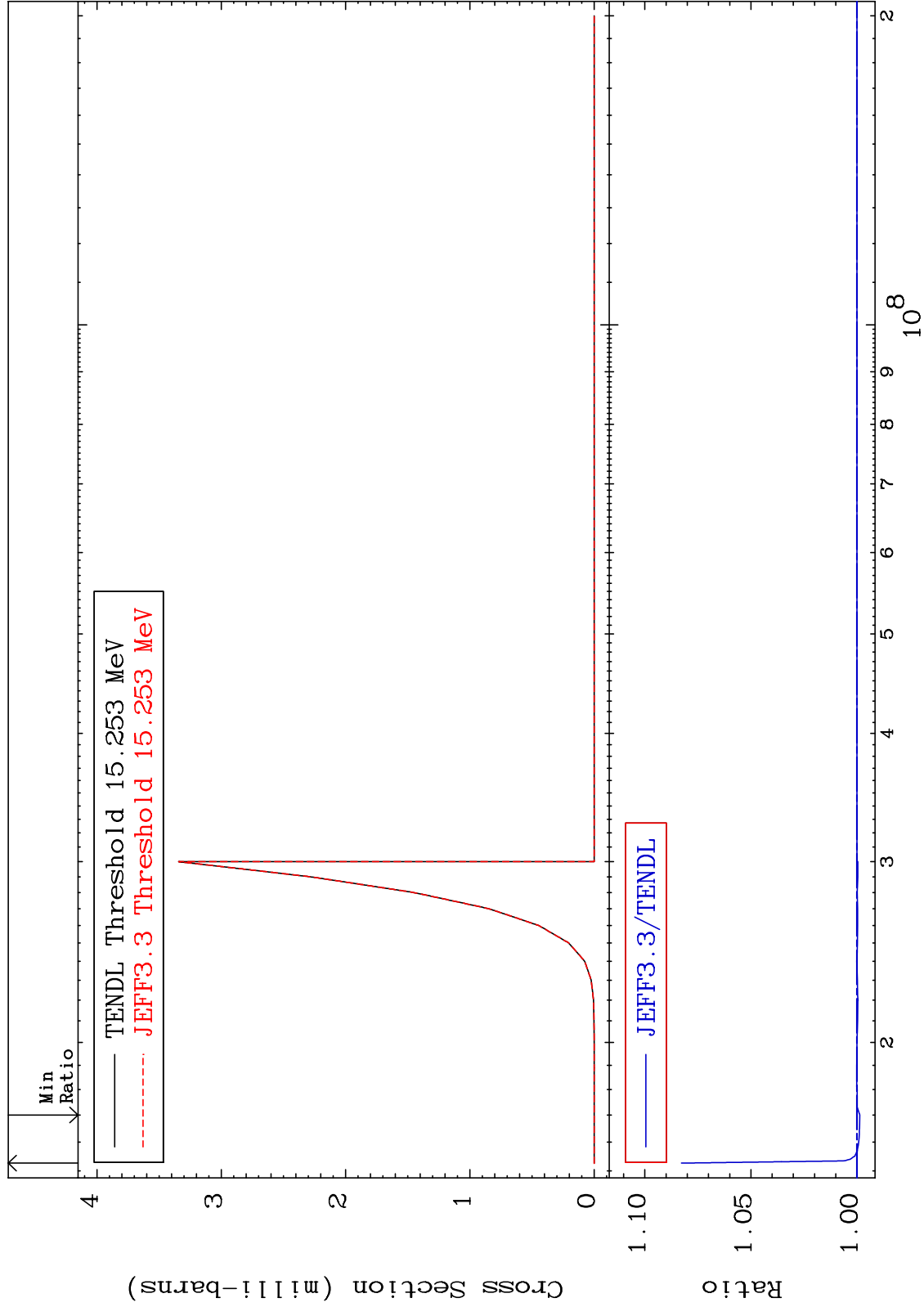
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -0.135 To 8.274 %

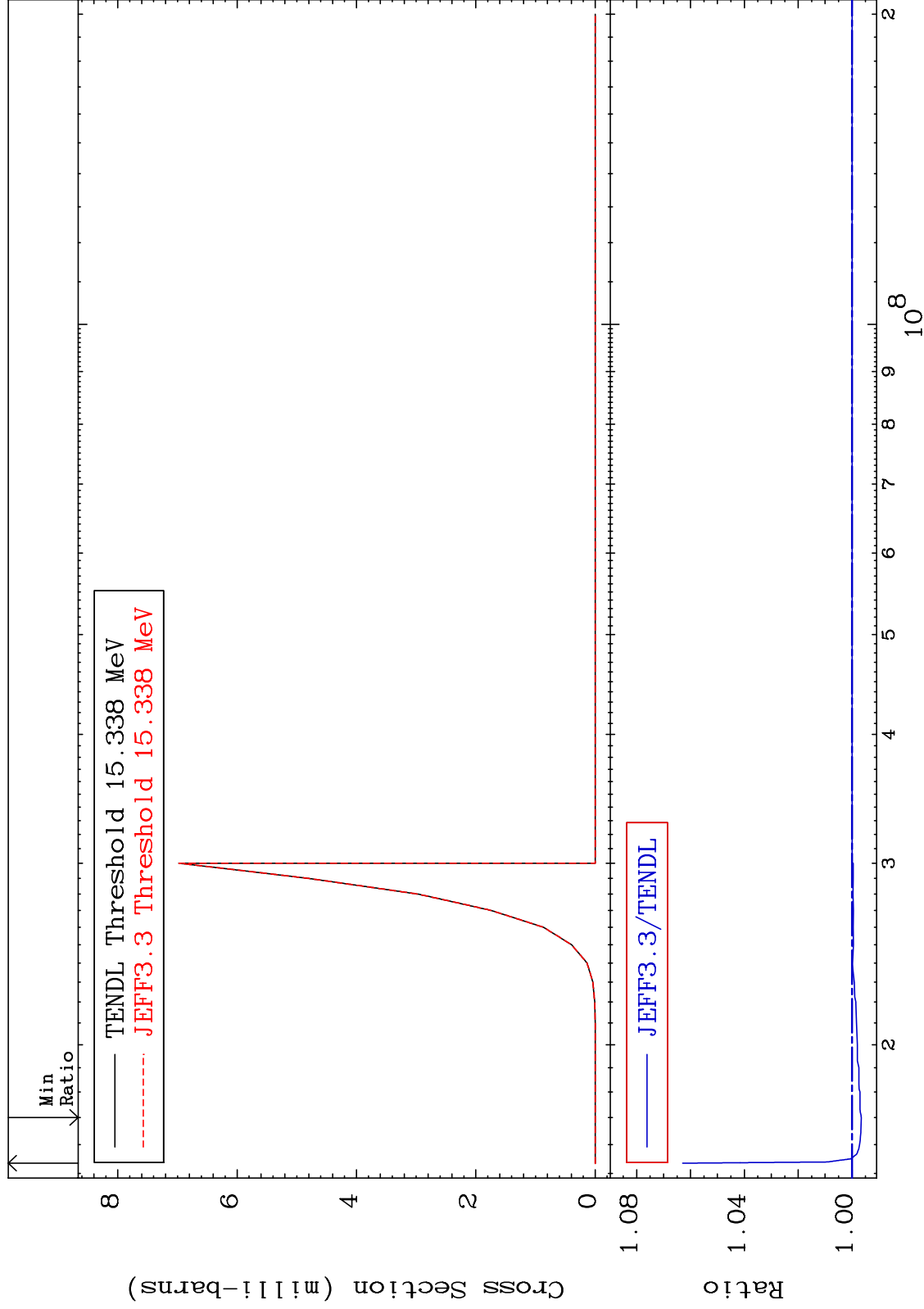


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -0.346 To 6.291 %



95

Incident Energy (eV)

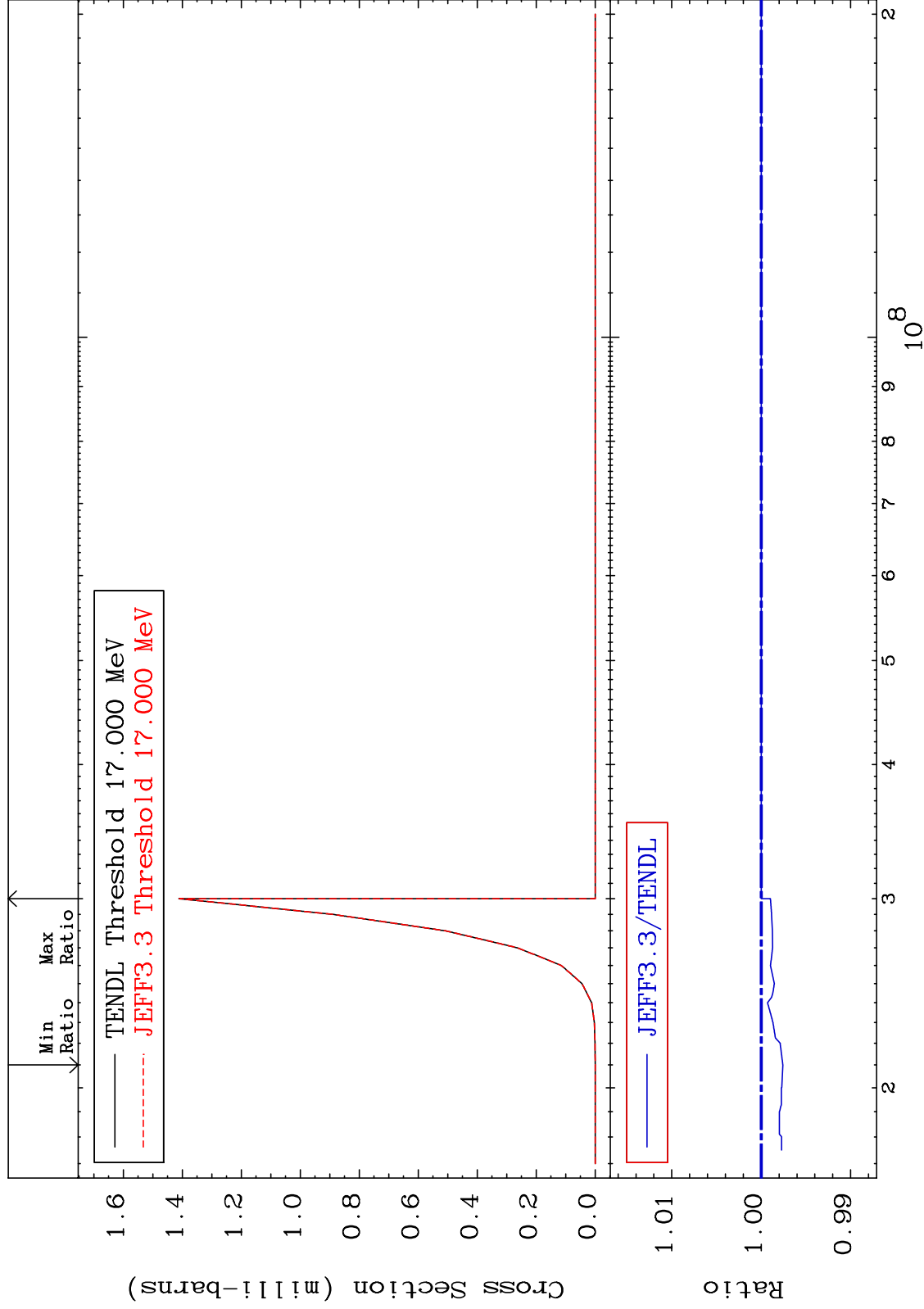
80-Hg-198

MAT 8031

(n,2n) p:79-Au-196m5

80-Hg-198

Radionuclide Production Cross Section -0.242 To 0.000 %

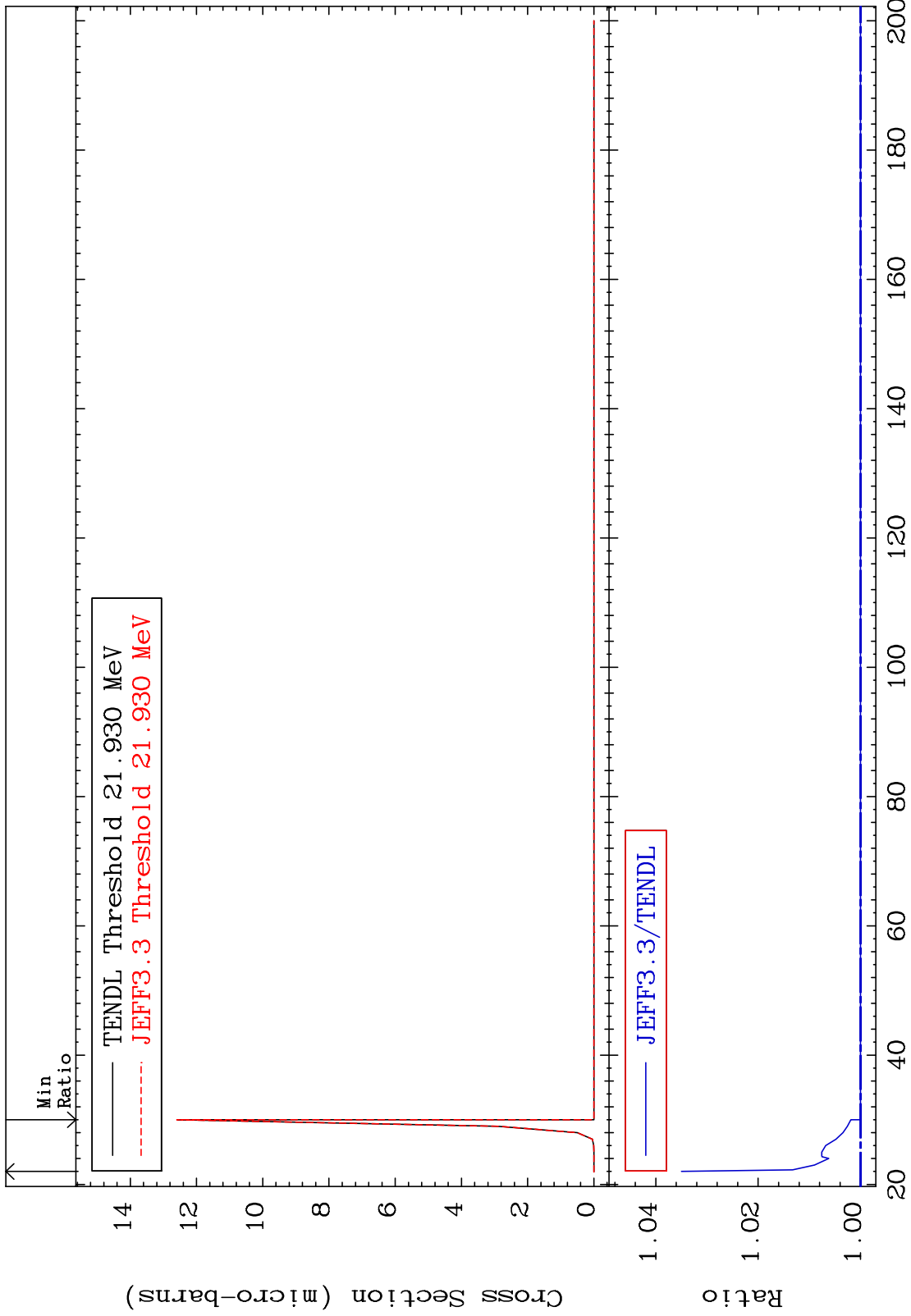


MAT 8031

(n,3n) p:79-Au-195g

80-Hg-198

Radionuclide Production Cross Section 0.000 To 3.497 %



97

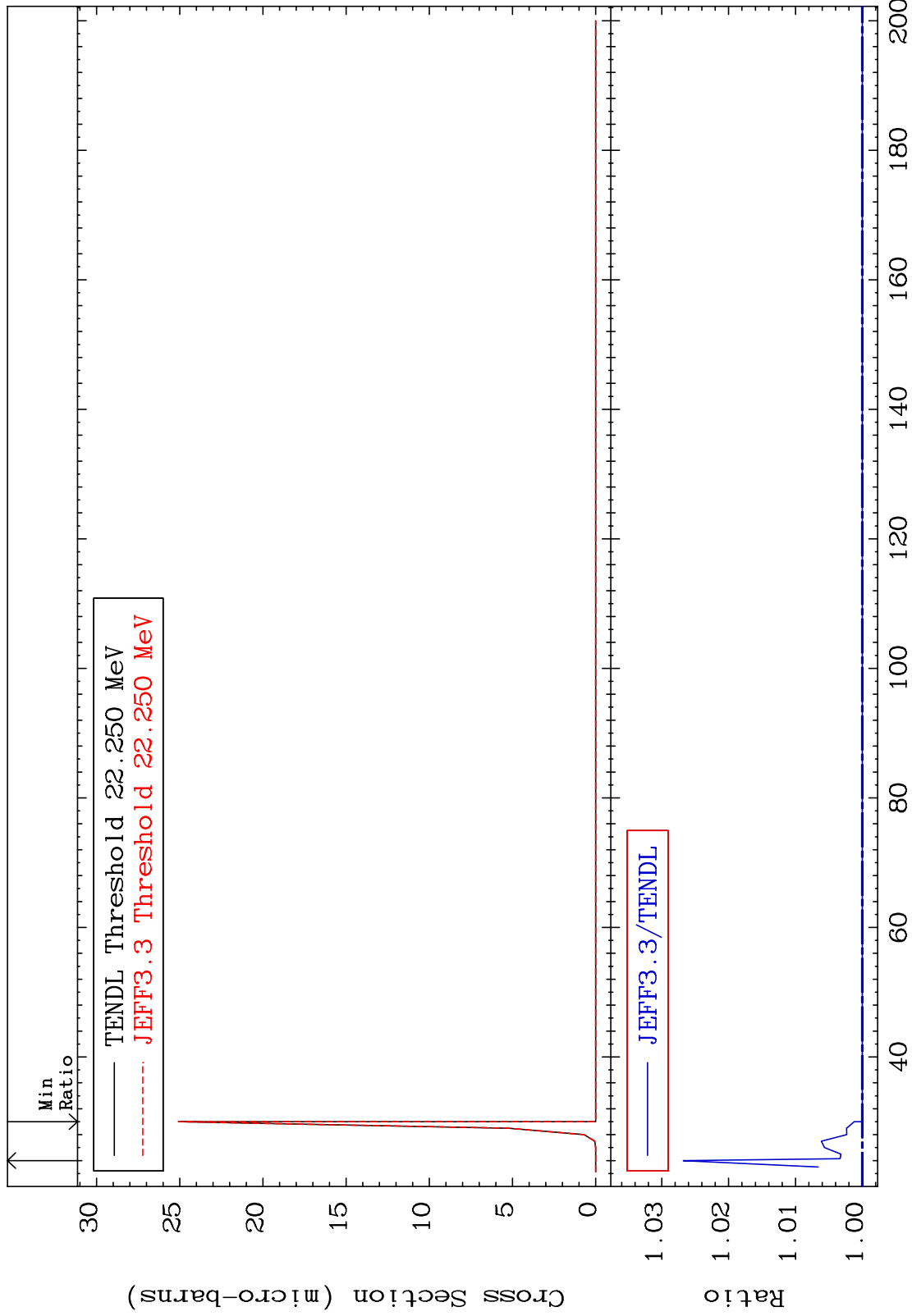
80-Hg-198

MAT 8031

(n,3n) p:79-Au-195m4

80-Hg-198

Radionuclide Production Cross Section 0.000 To 2.678 %

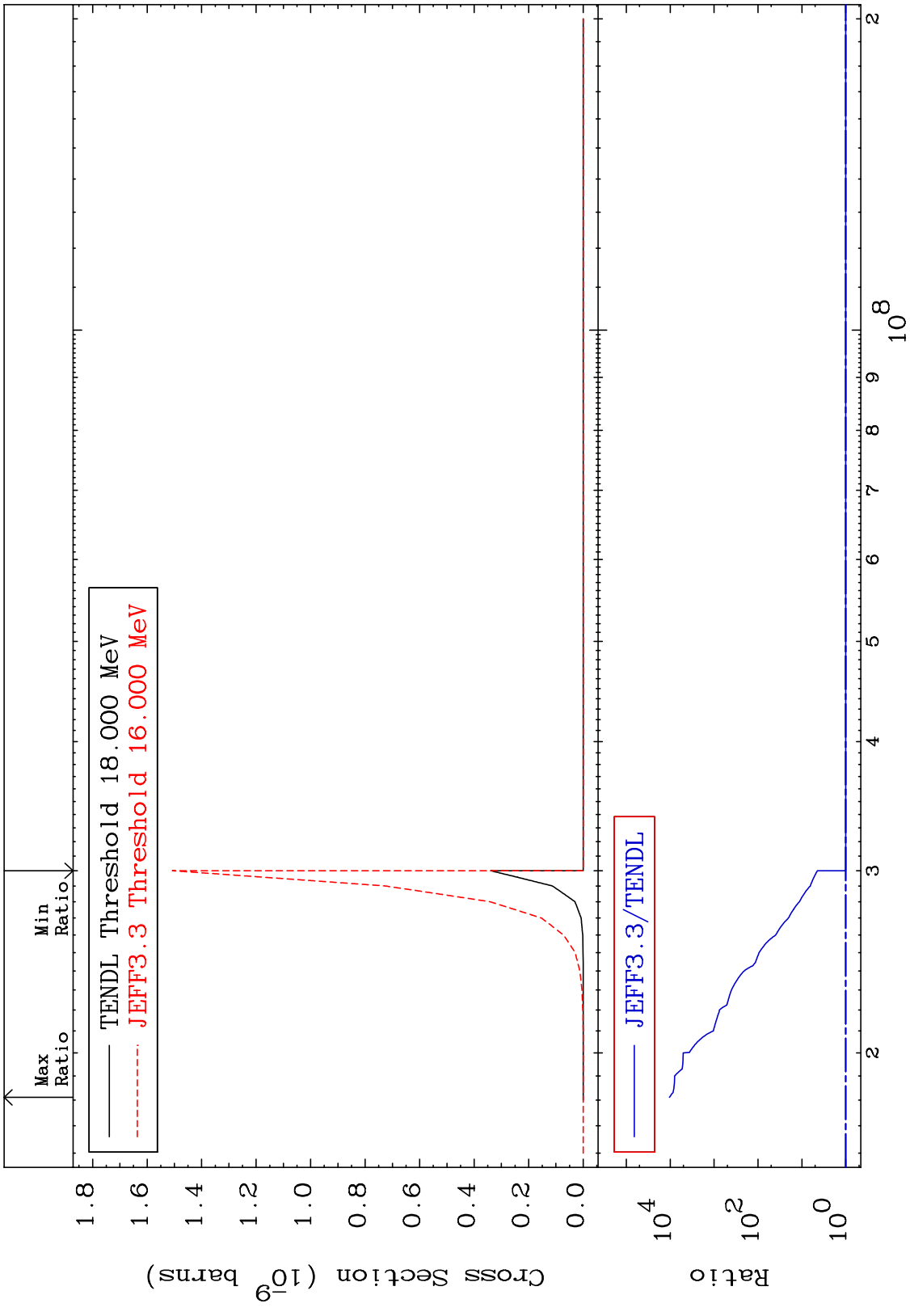


98

Incident Energy (MeV)

80-Hg-198

MAT 8031 (n,n') p α:77-Ir-193g 80-Hg-198
 Radionuclide Production Cross Section 0.000 To 9999. %

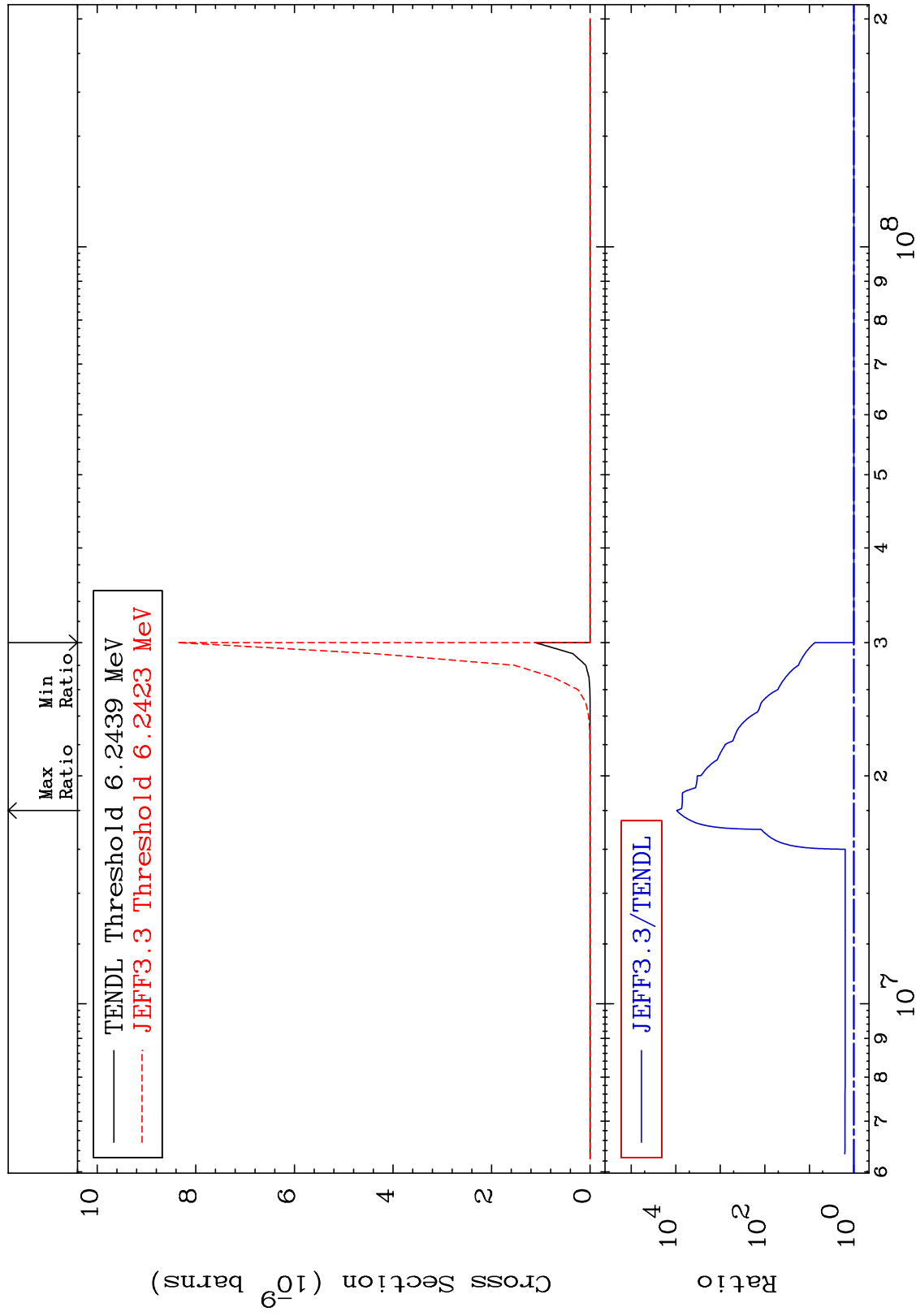


MAT 8031

(n,n') p α : 77-Ir-193m2

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



100

Incident Energy (eV)

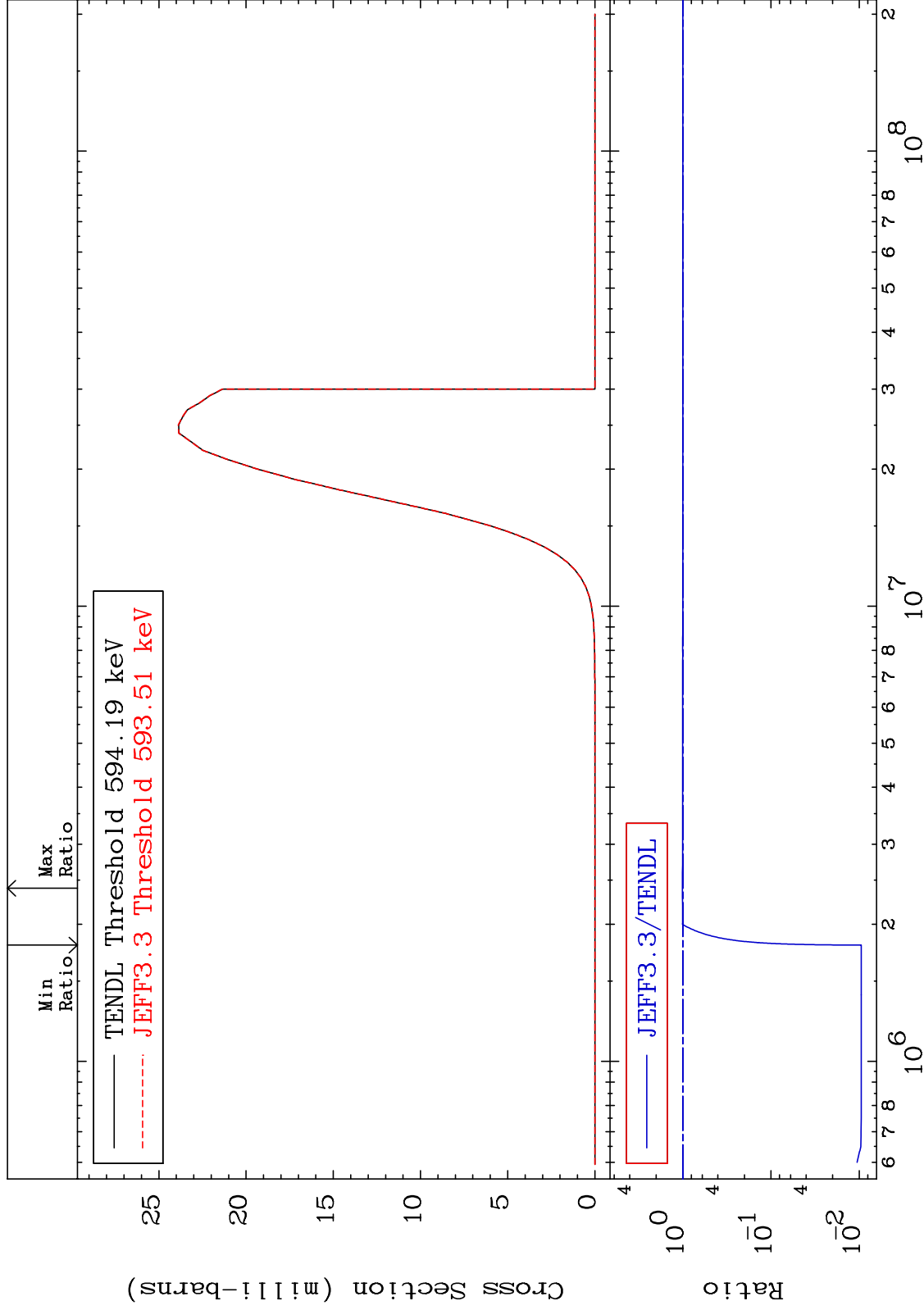
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -99.05 To 0.876 %

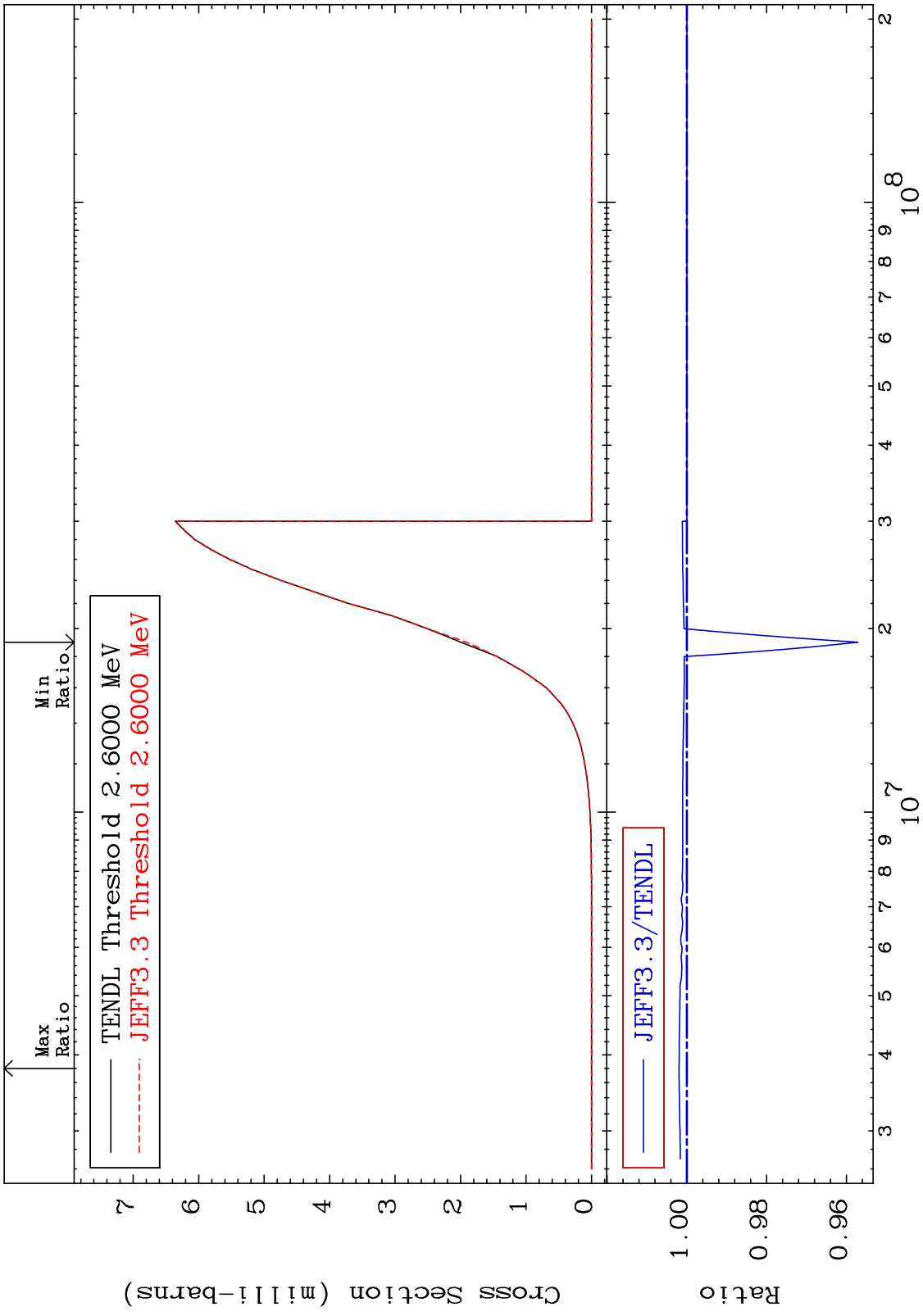


101

Incident Energy (eV)

80-Hg-198

MAT 8031 (n,p):79-Au-198m10 80-Hg-198
 Radionuclide Production Cross Section -4.287 To 0.196 %



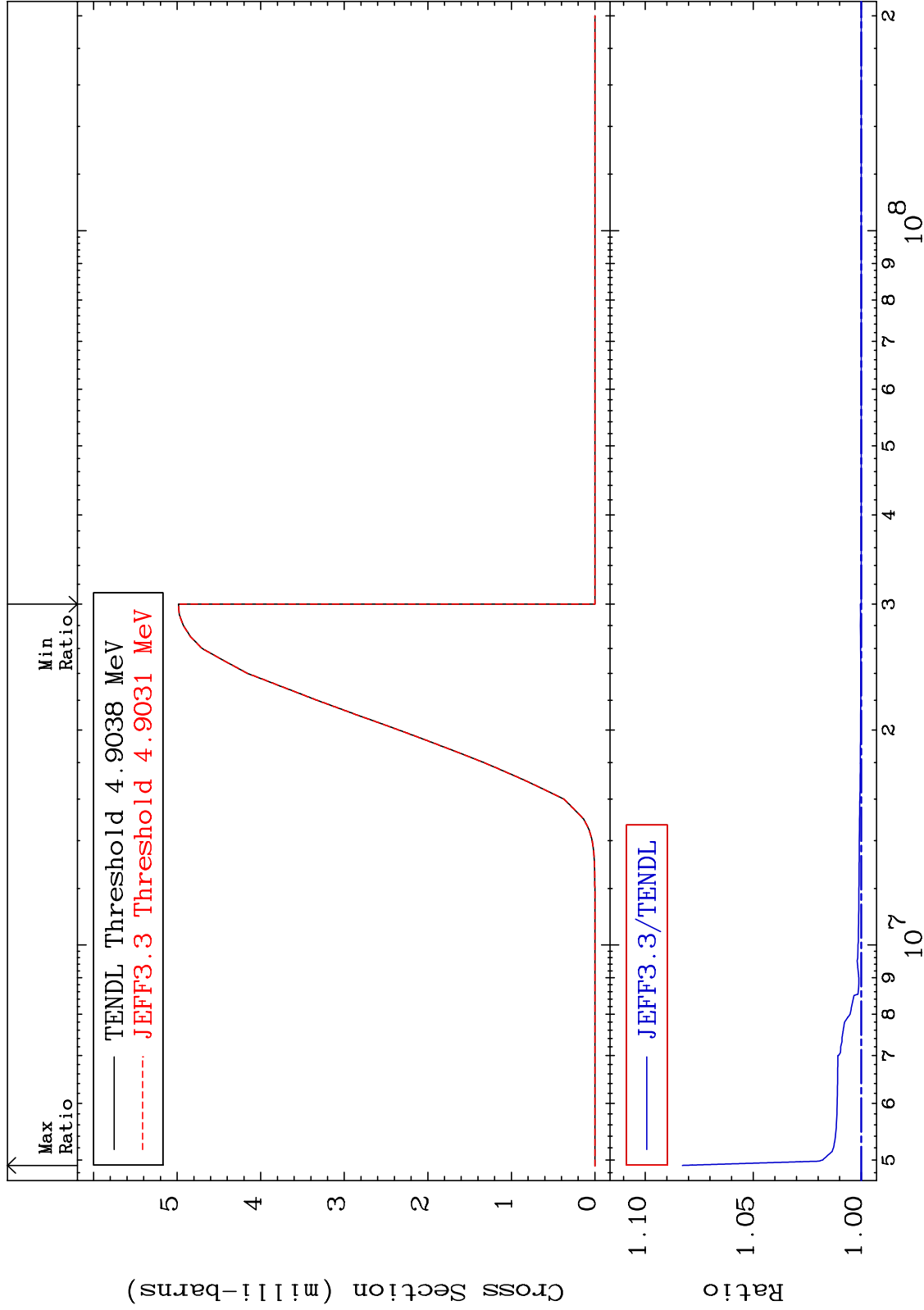
102 80-Hg-198

MAT 8031

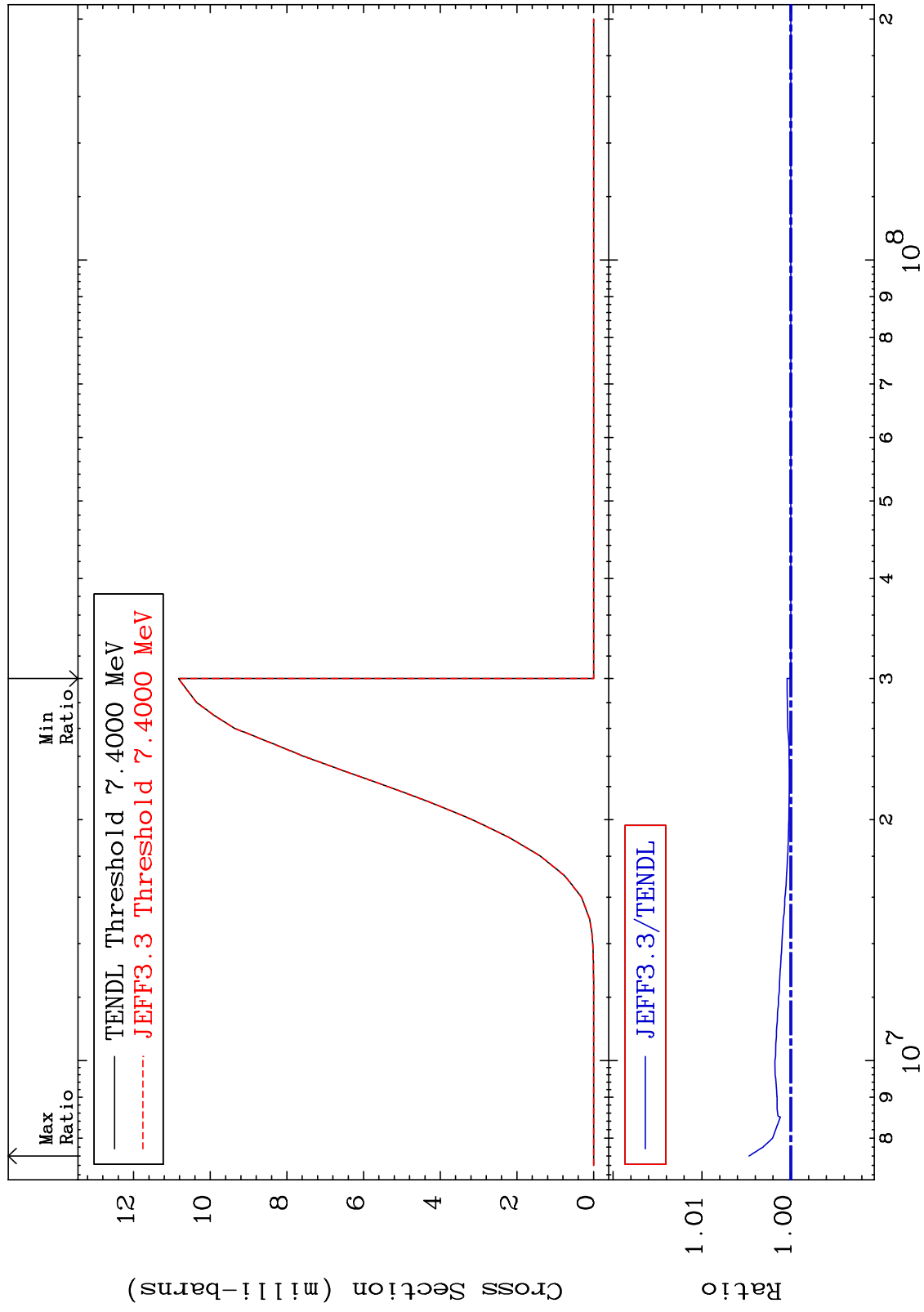
(n,d) : 79-Au-197g

80-Hg-198

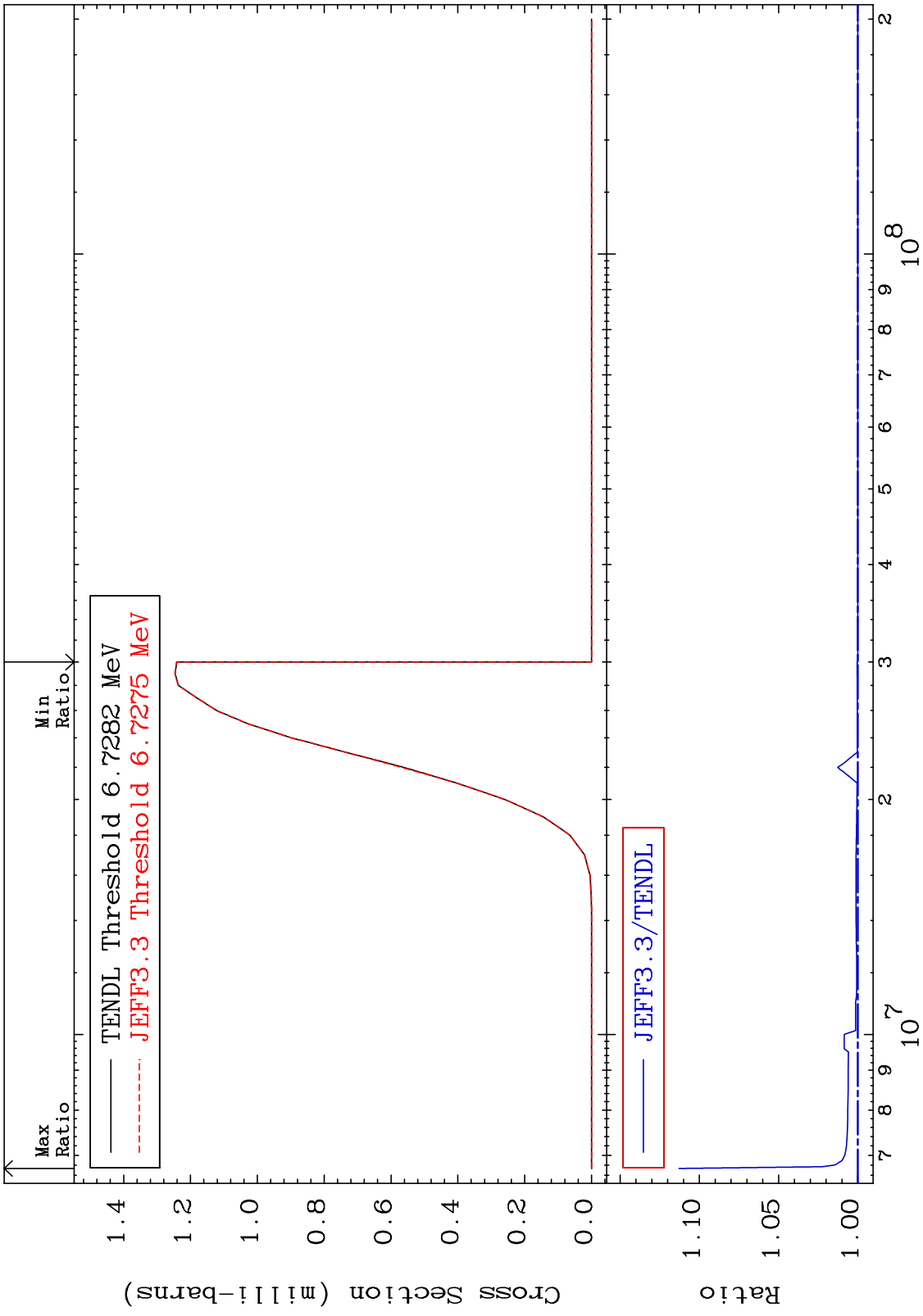
Radionuclide Production Cross Section 0.000 To 8.277 %



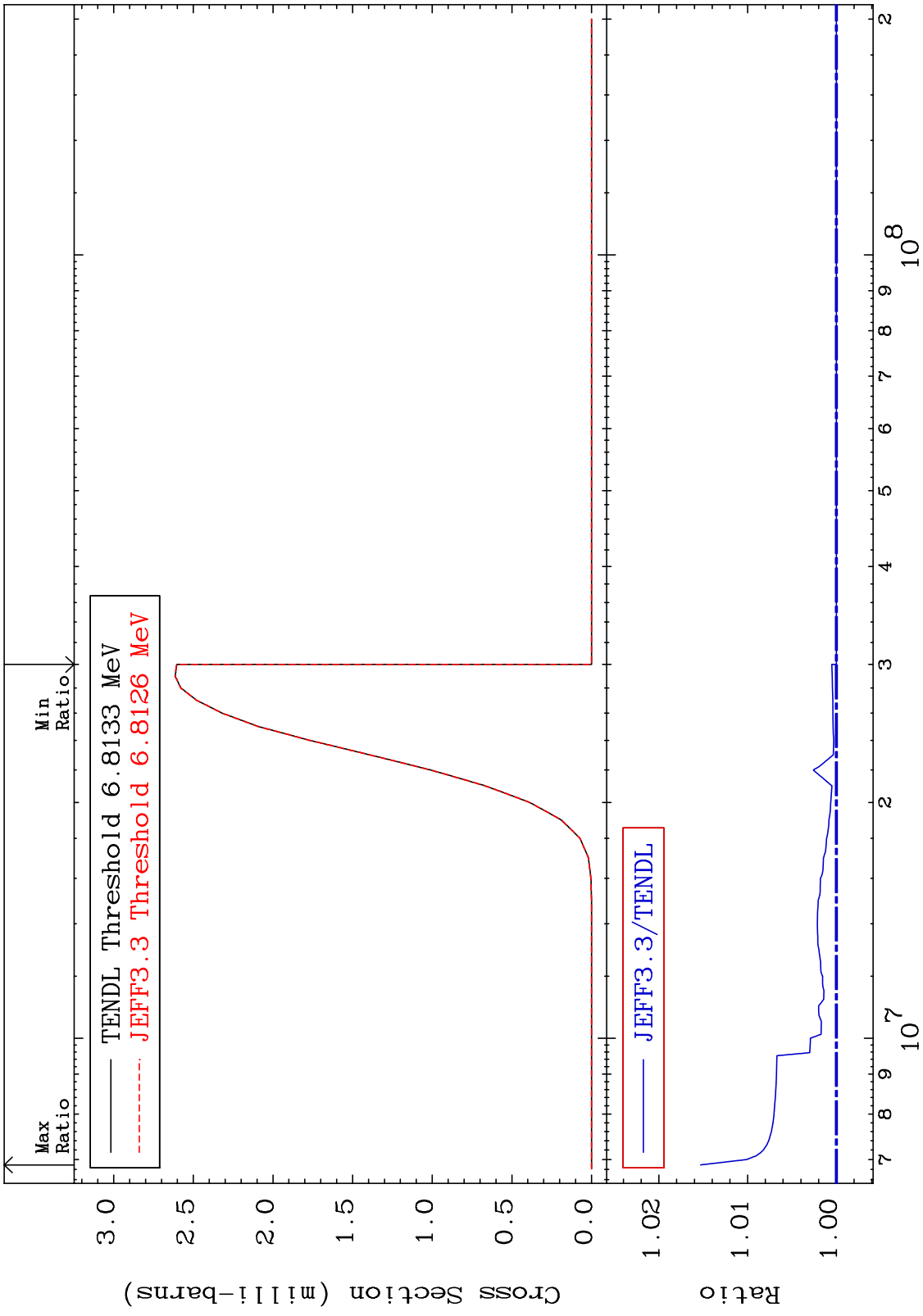
MAT 8031 (n,d):79-Au-197m4 80-Hg-198
Radionuclide Production Cross Section 0.000 To 0.470 %



MAT 8031 (n,t):79-Au-196g 80-Hg-198
 Radionuclide Production Cross Section 0.000 To 11.28 %



MAT 8031 (n, t) : 79-Au-196m3 80-Hg-198
 Radionuclide Production Cross Section 0.000 To 1.531 %



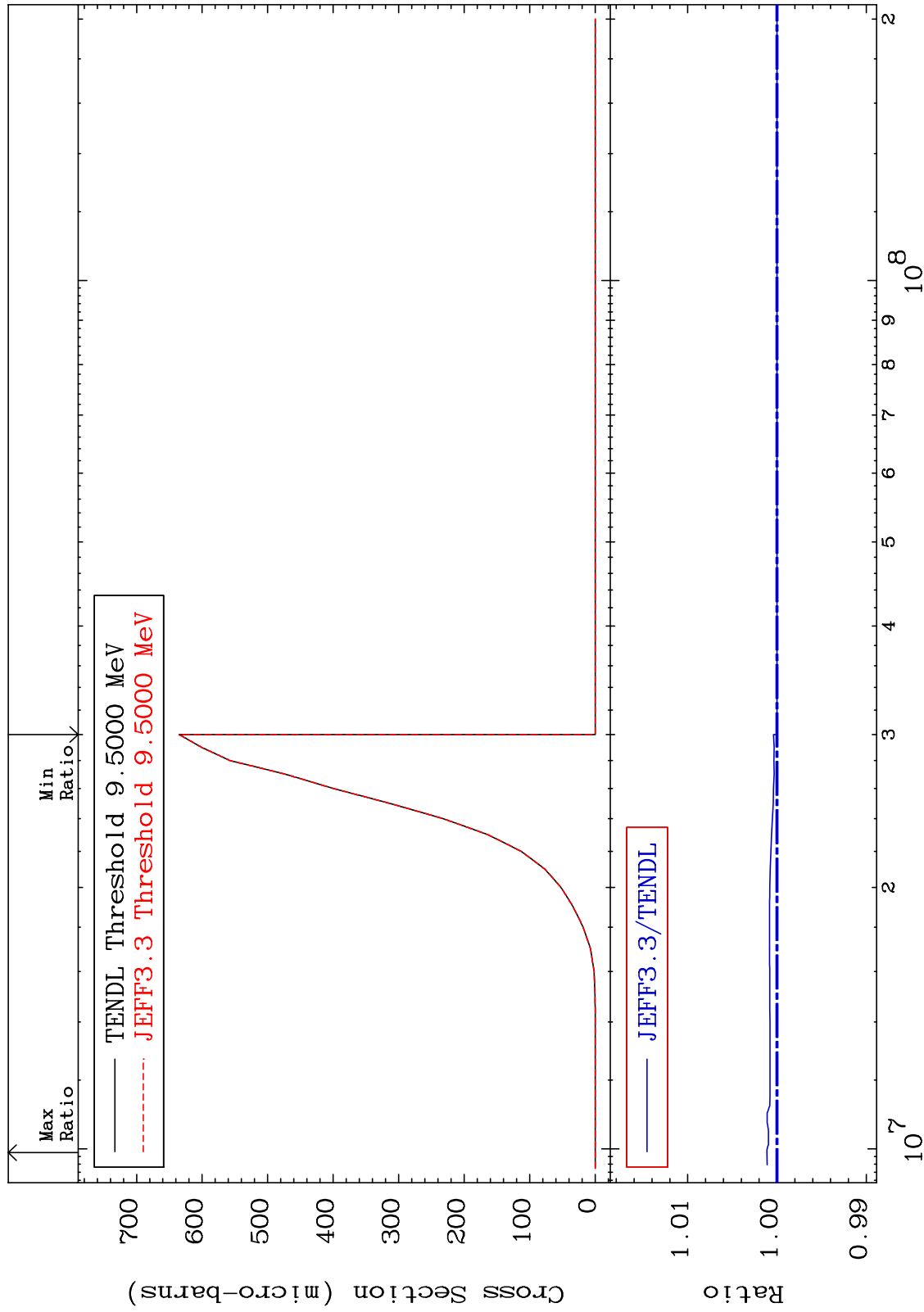
106 Incident Energy (eV) 80-Hg-198

MAT 8031

(n, t) : 79-Au-196m5

80-Hg-198

Radionuclide Production Cross Section 0.000 To 0.112 %

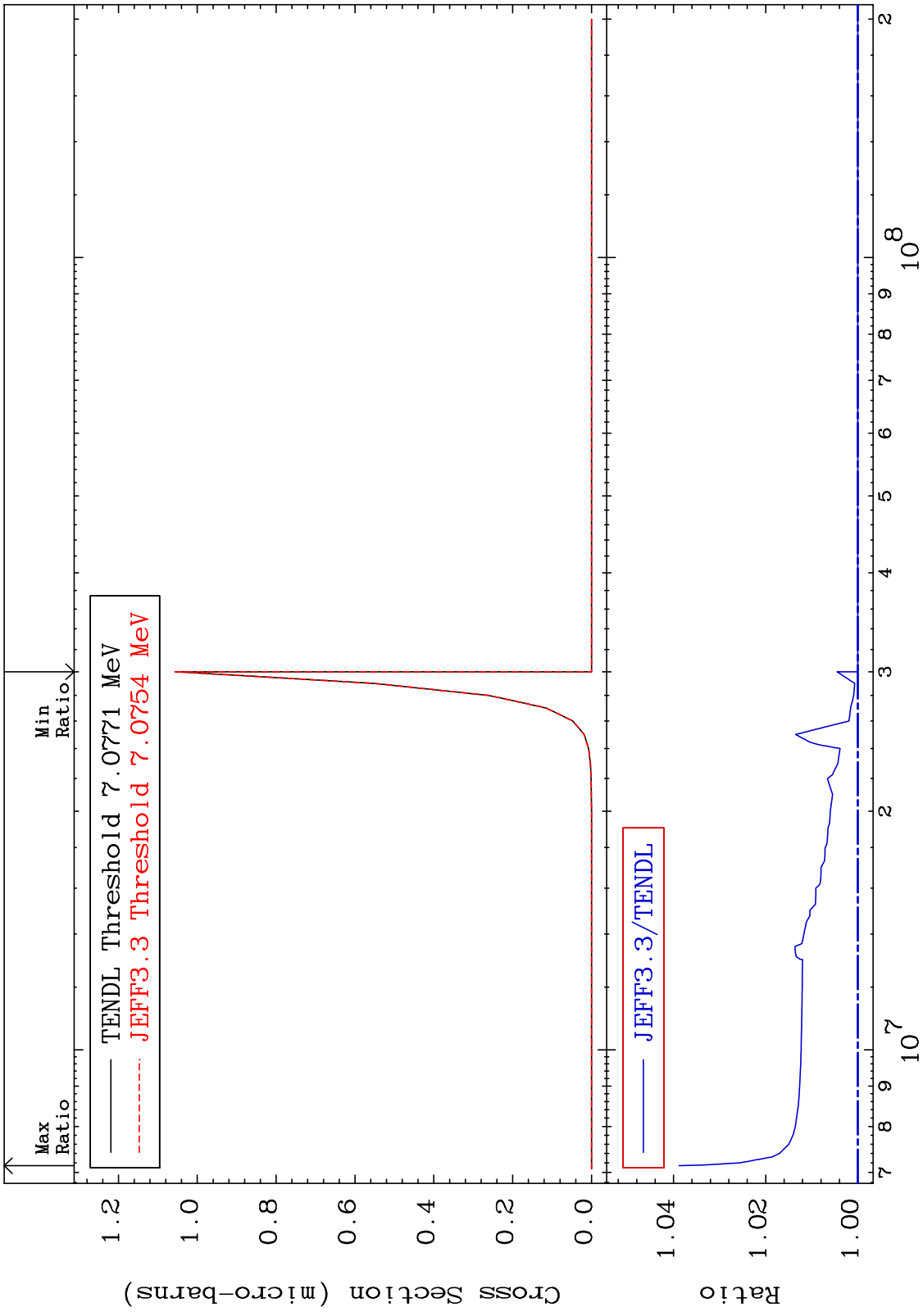


107

Incident Energy (eV)

80-Hg-198

MAT 8031 (n,2p):78-Pt-197g 80-Hg-198
 Radionuclide Production Cross Section 0.000 To 3.881 %

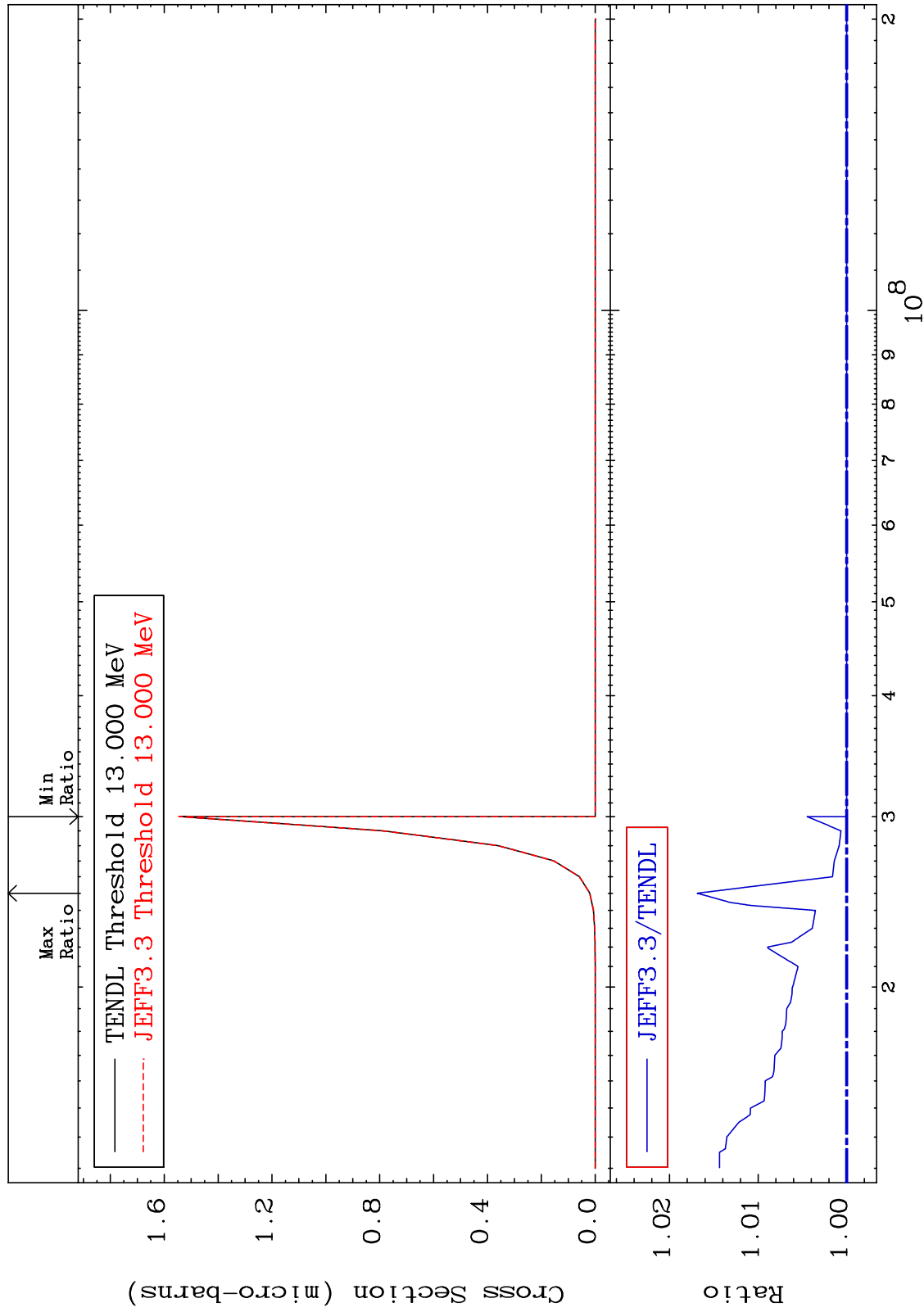


MAT 8031

(n,2p):78-Pt-197m9

80-Hg-198

Radionuclide Production Cross Section 0.000 To 1.687 %

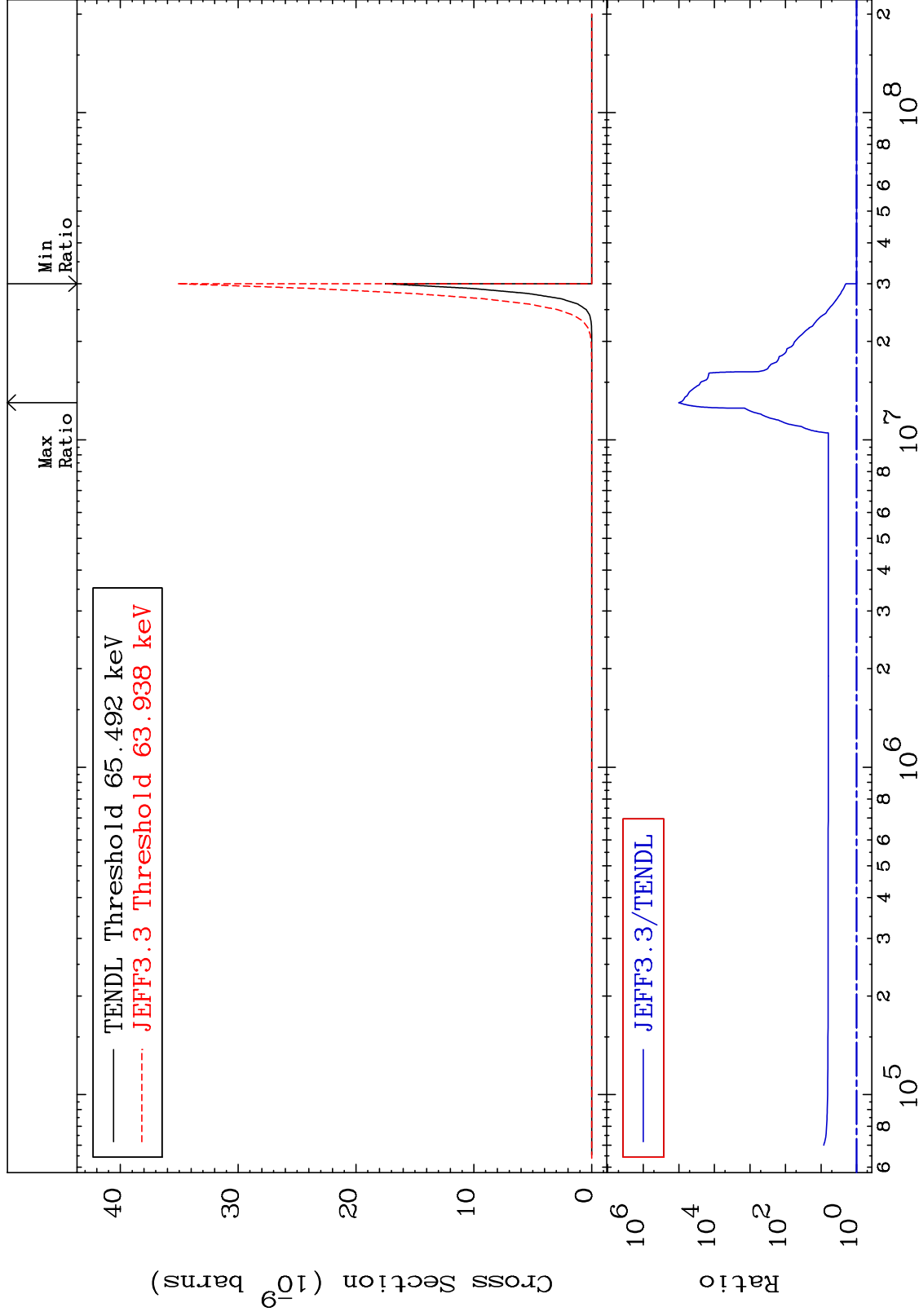


MAT 8031

(n,p) α : ⁷⁷Ir-194g

⁸⁰Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %

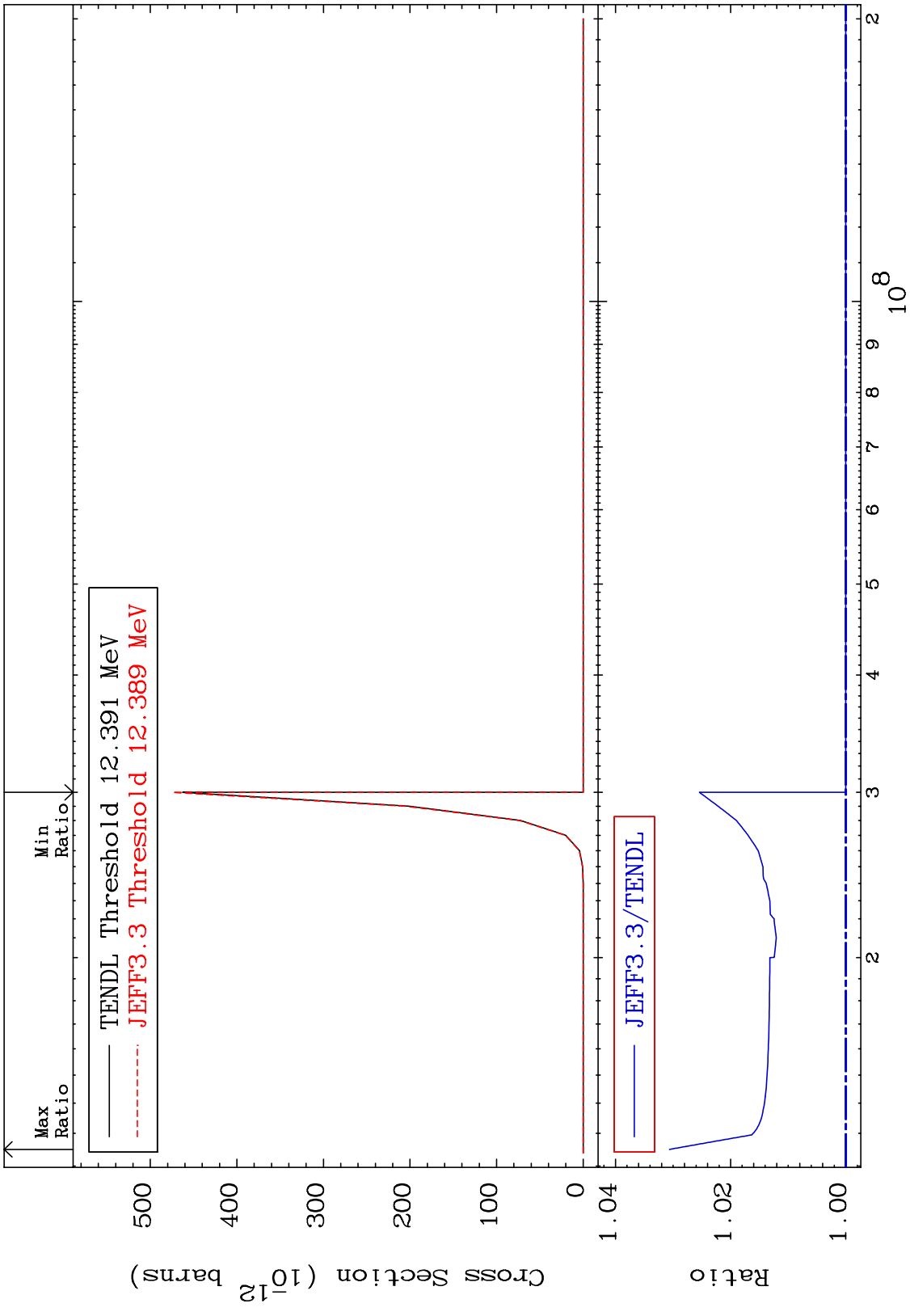


110

Incident Energy (eV)

⁸⁰Hg-198

MAT 8031 (n,p) t:78-Pt-195g 80-Hg-198
 Radionuclide Production Cross Section 0.000 To 3.062 %



MAT 8031

(n,p) t:78-Pt-195m7

80-Hg-198

Radionuclide Production Cross Section -0.416 To 0.234 %

