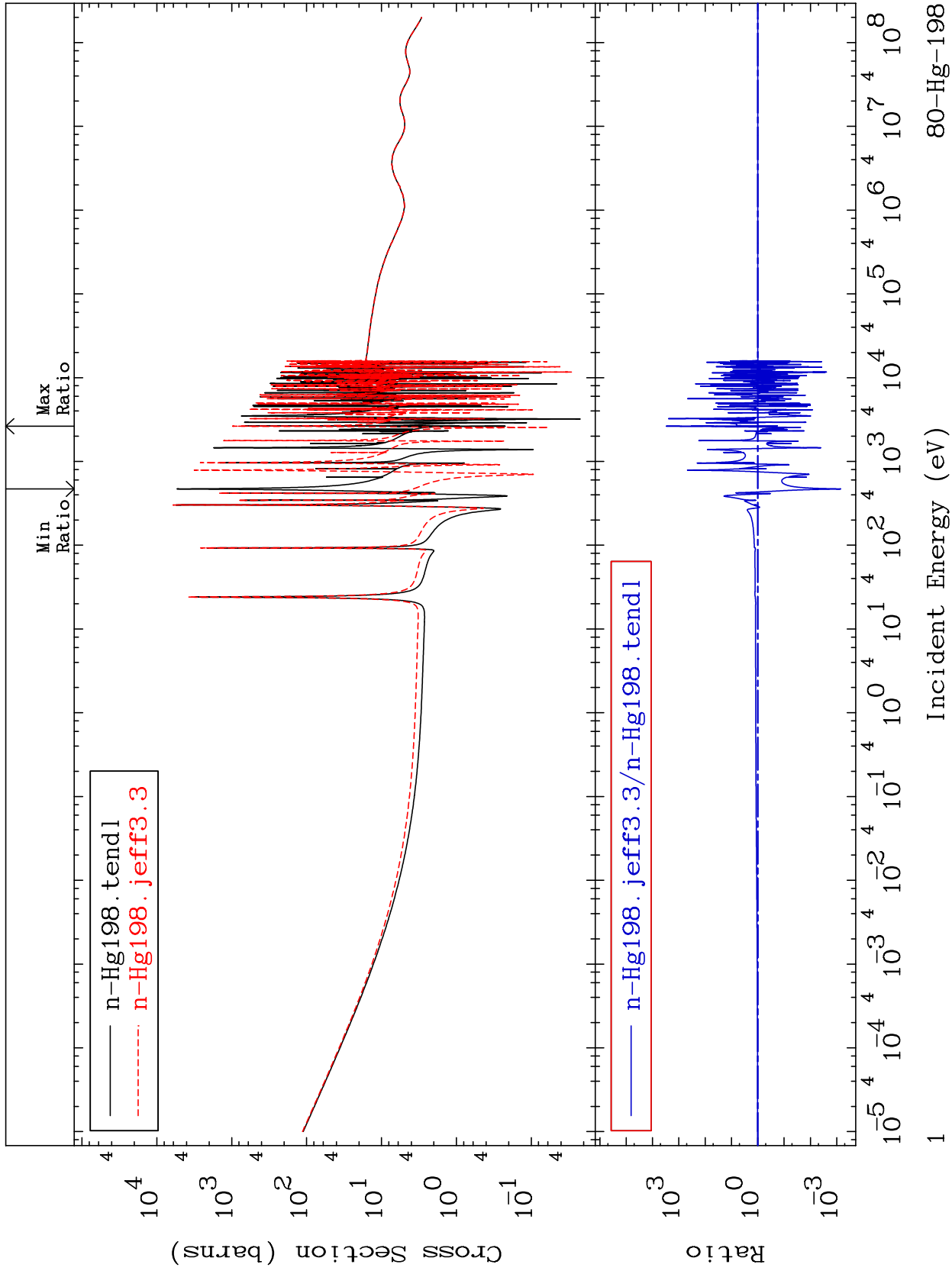


MAT 8031

Total  
Cross Section

80-Hg-198  
-99.93 To 9999. %

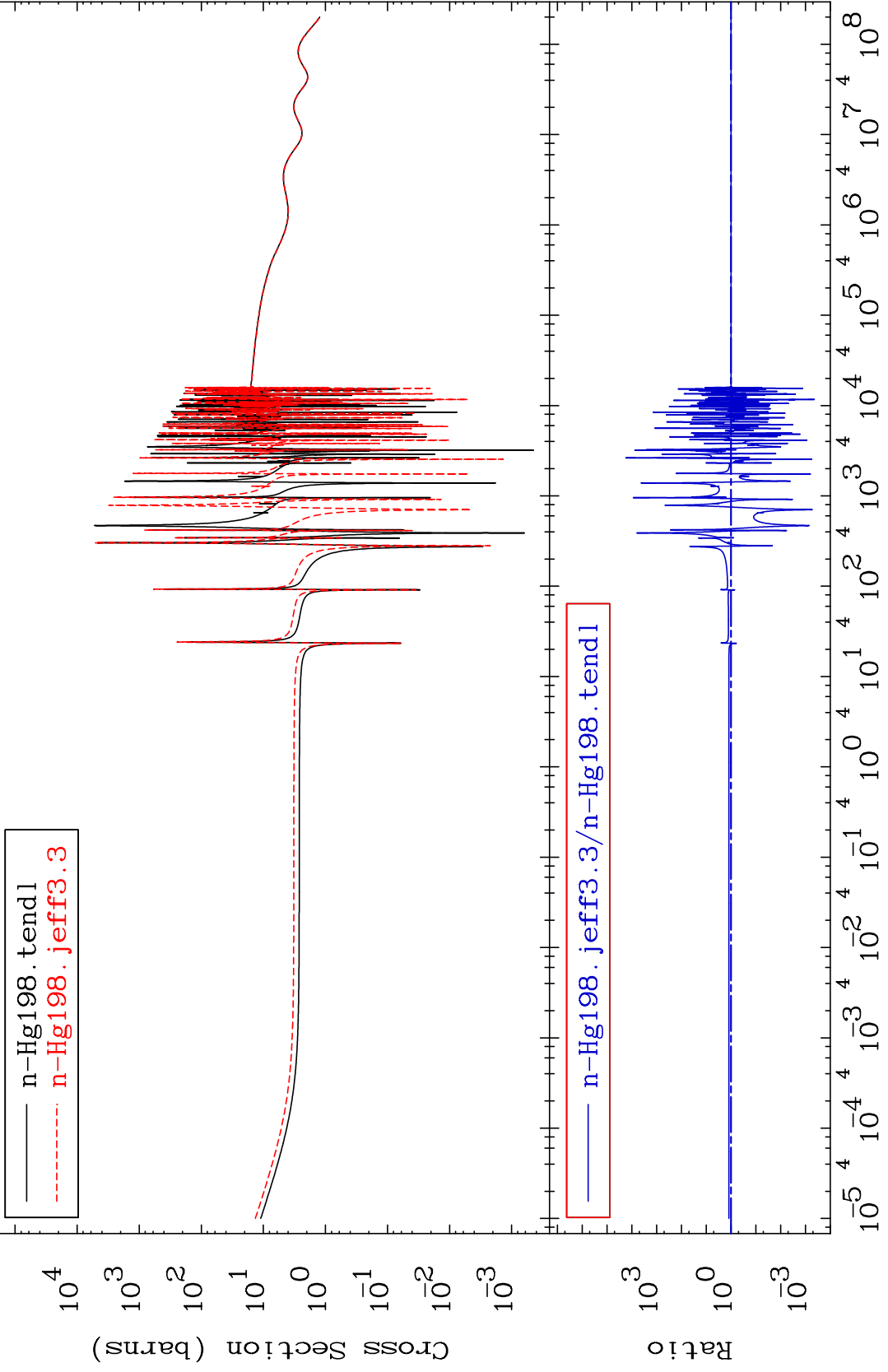


80-Hg-198

MAT 8031

Elastic  
Cross Section

80-Hg-198  
-99.96 To 9999. %



2

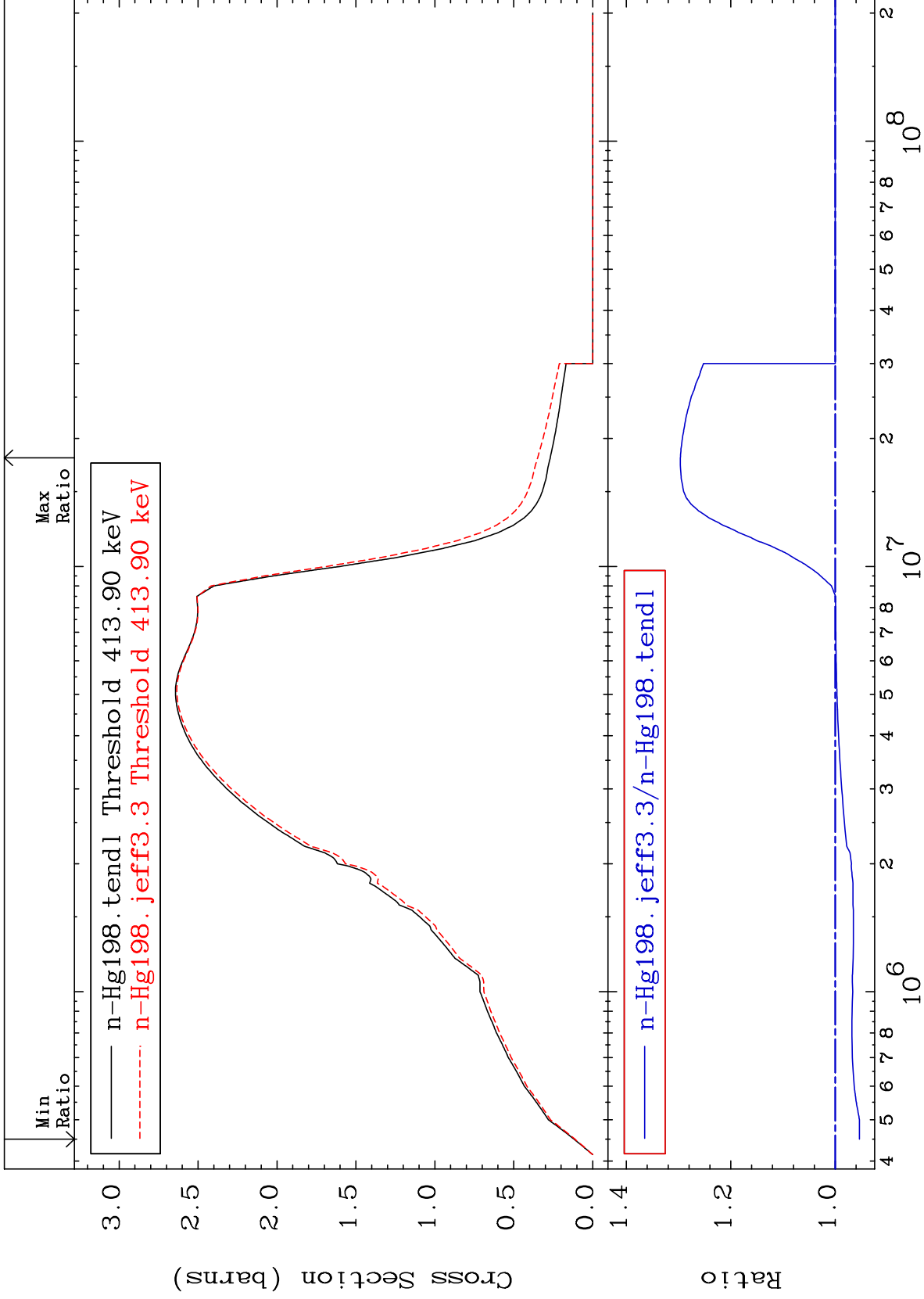
Incident Energy (eV)

80-Hg-198

MAT 8031

Inelastic  
Cross Section

80-Hg-198  
-4.640 To 29.66 %

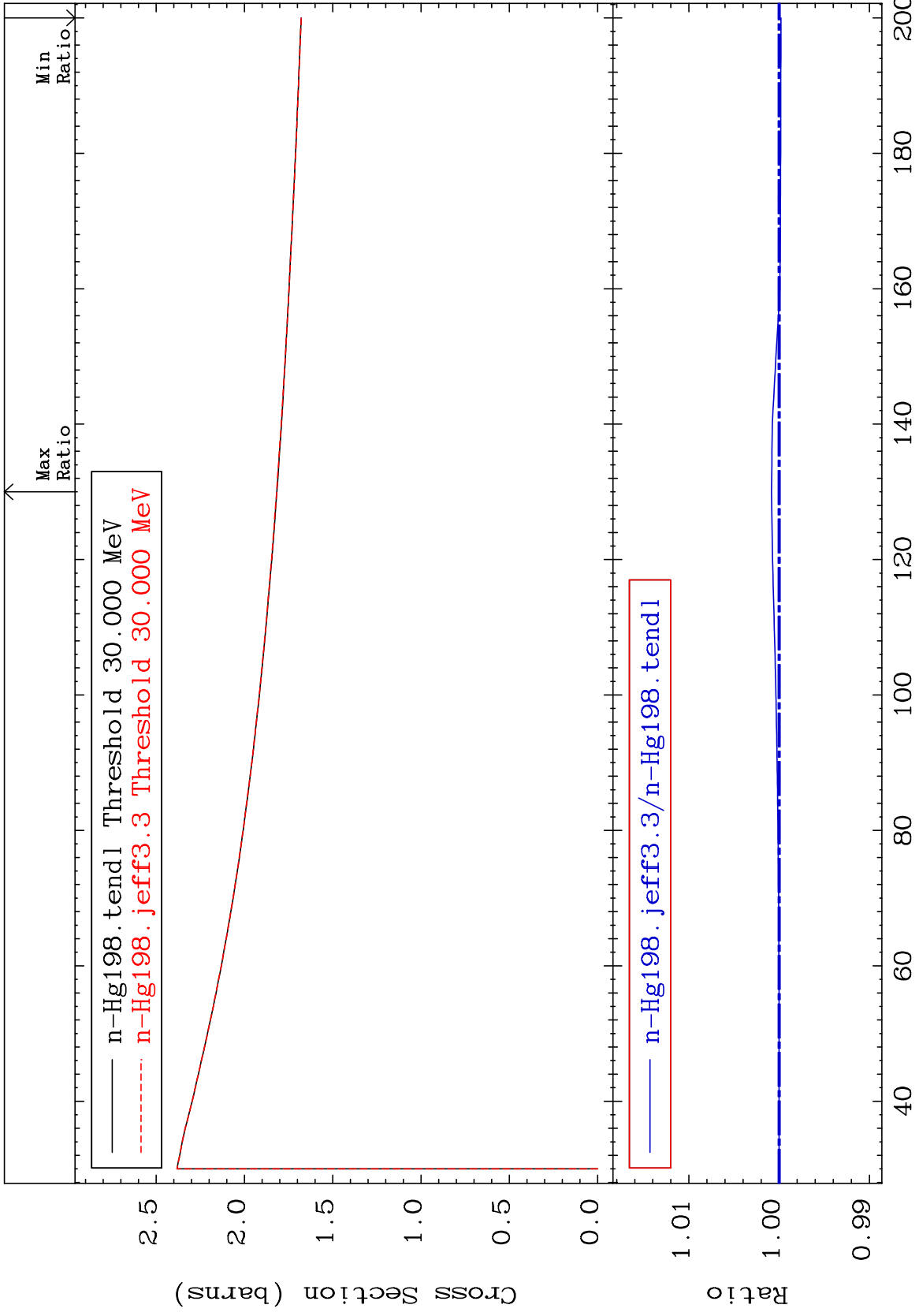


3

MAT 8031

(n, remainder)  
Cross Section

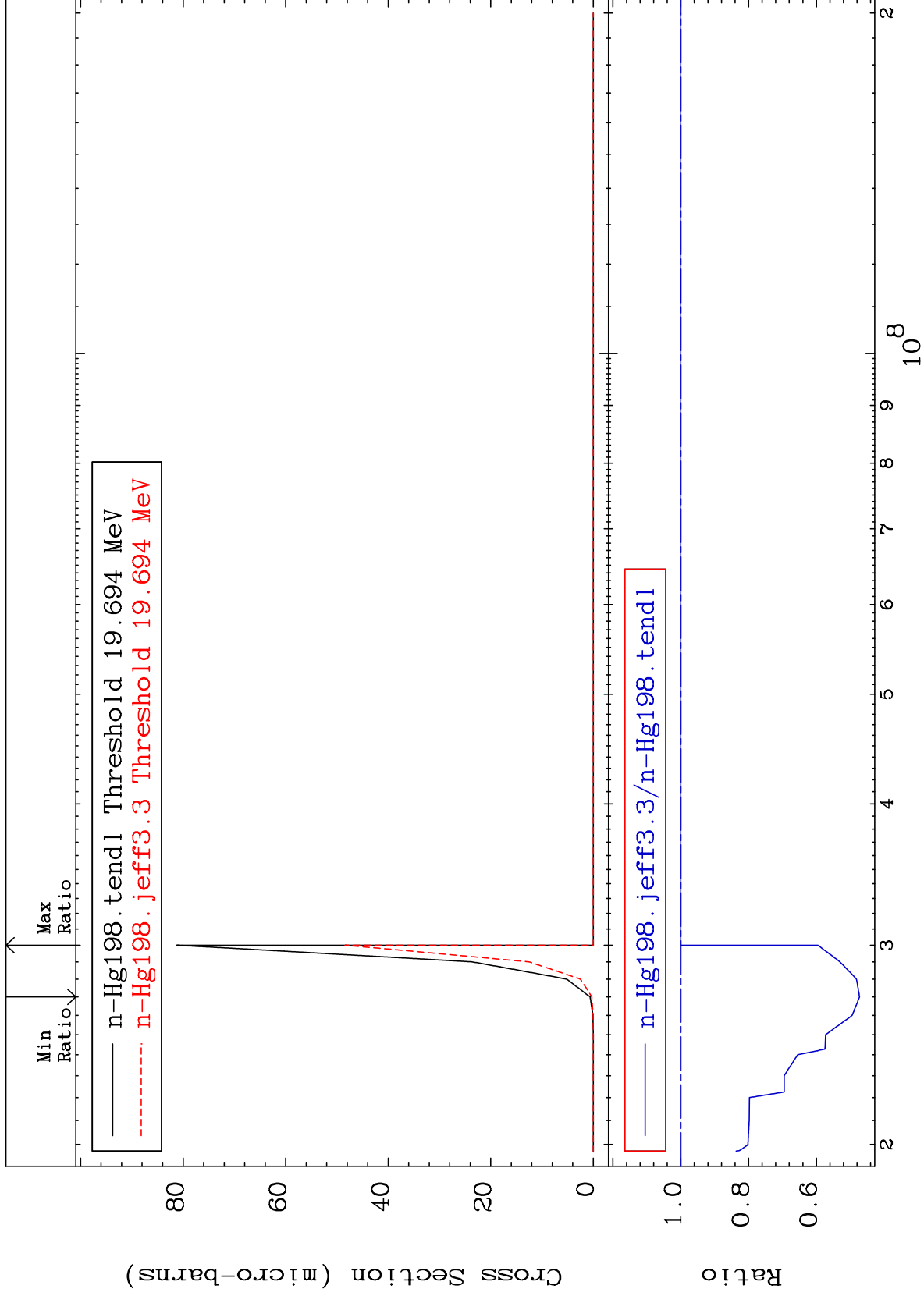
80-Hg-198  
-0.020 To 0.084 %



MAT 8031

(n,2n) d  
Cross Section

80-Hg-198  
-52.72 To 0.000 %



5

80-Hg-198

80-Hg-198

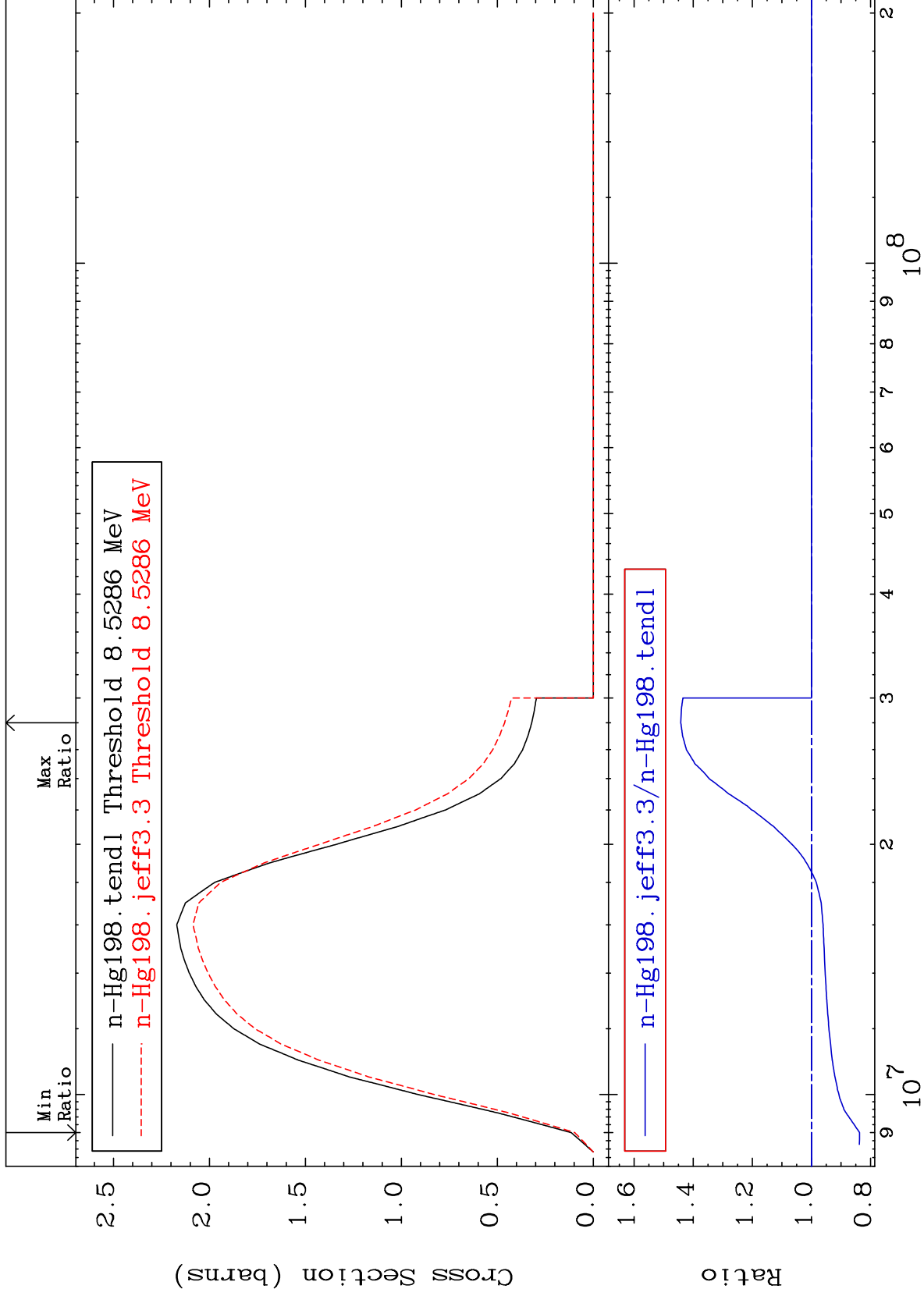
MAT 8031

(n,2n)

80-Hg-198

Cross Section

-16.26 To 44.23 %



6

Incident Energy (eV)

80-Hg-198

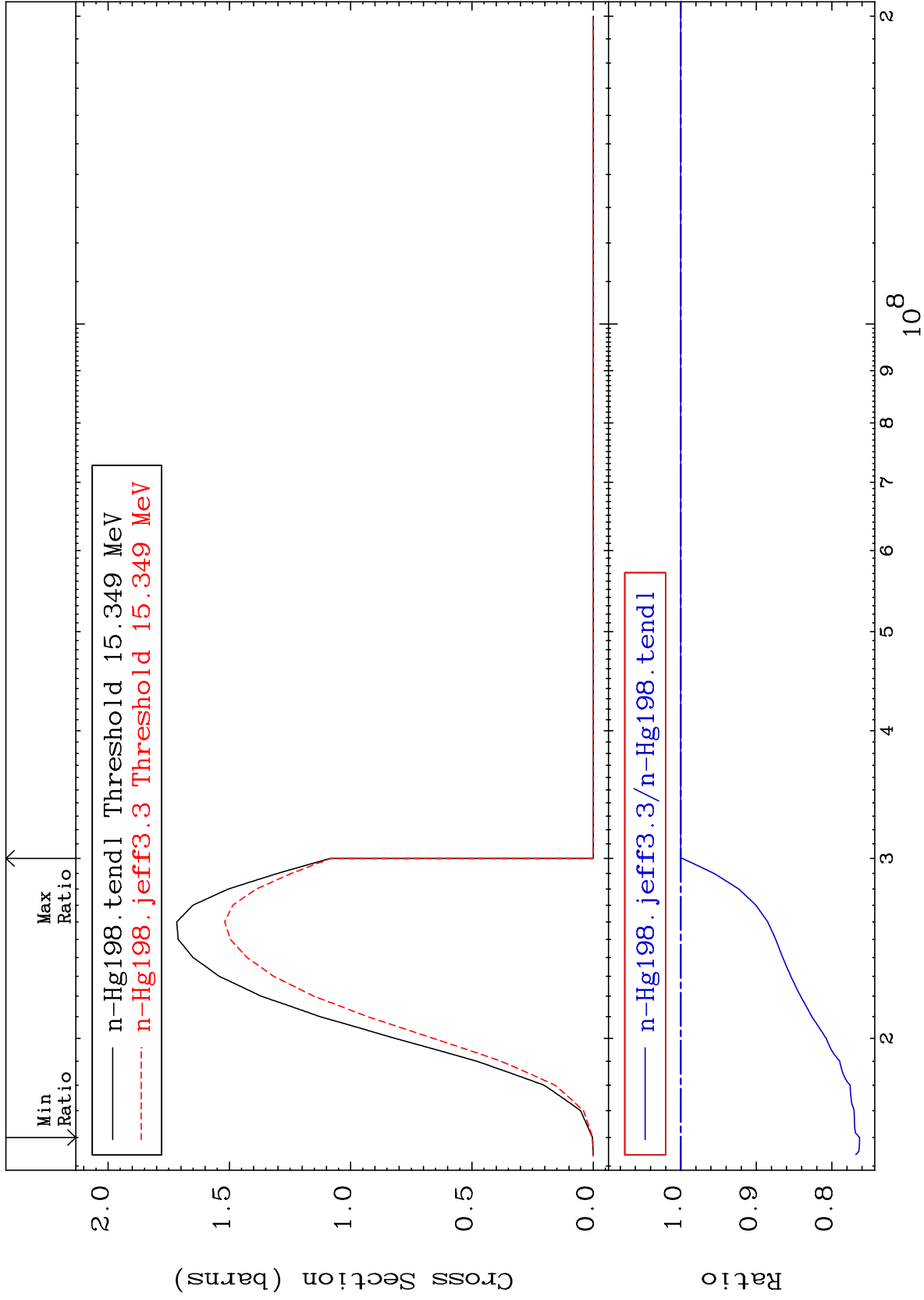
MAT 8031

(n,3n)

80-Hg-198

Cross Section

-23.66 To 0.000 %



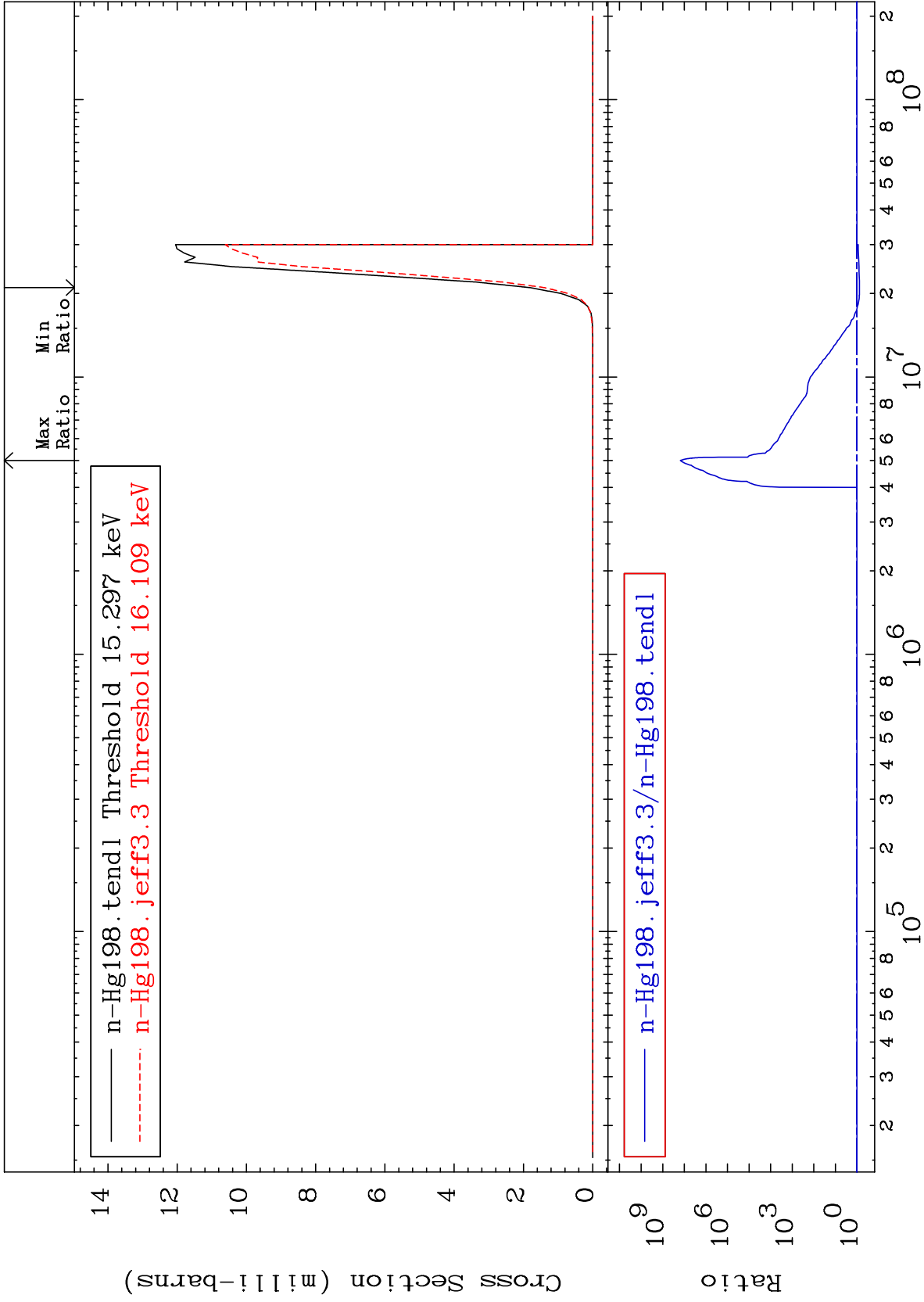
MAT 8031

(n,n')  $\alpha$

80-Hg-198

Cross Section

-23.25 To 9999. %

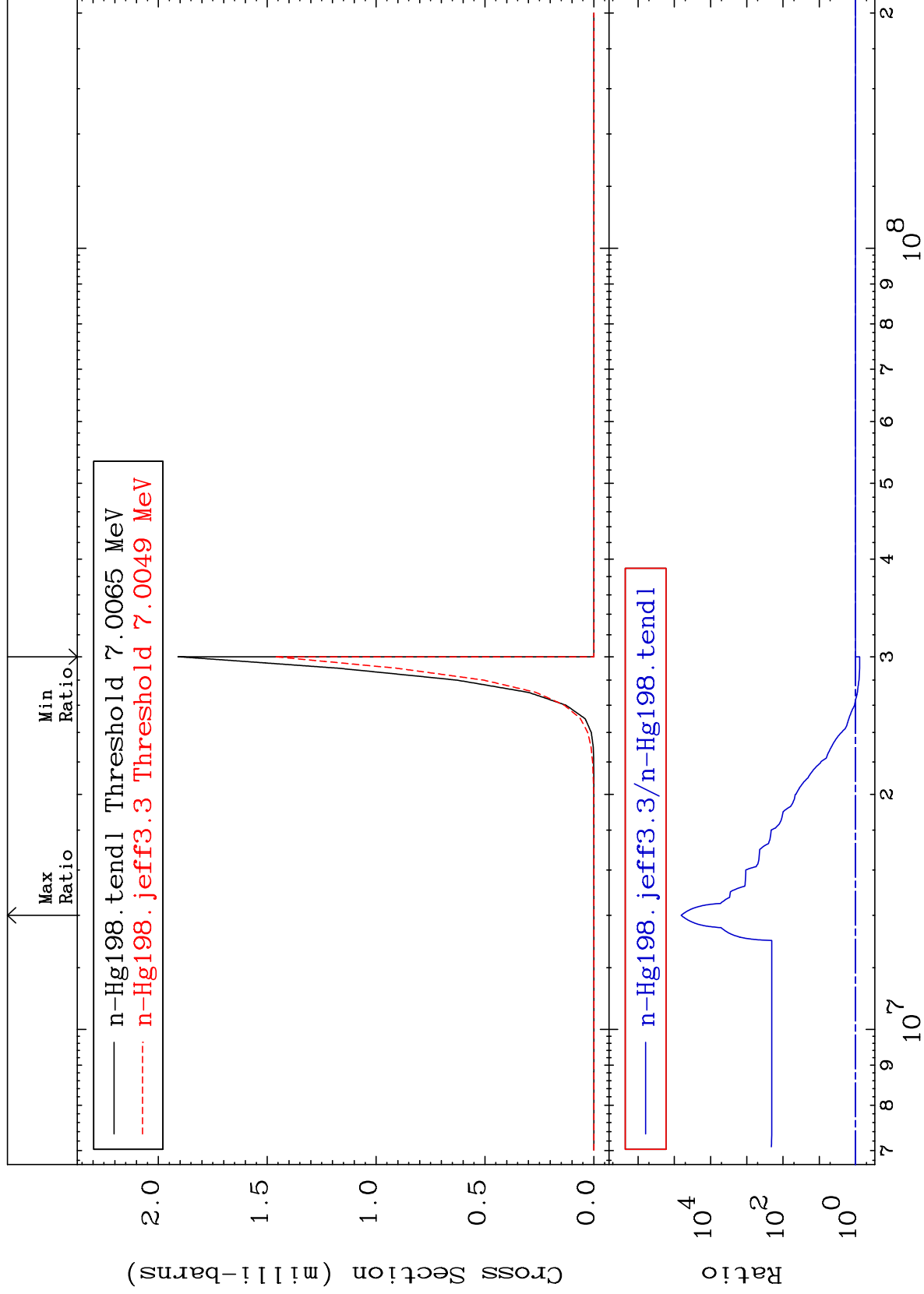




MAT 8031

(n,2n)  $\alpha$   
Cross Section

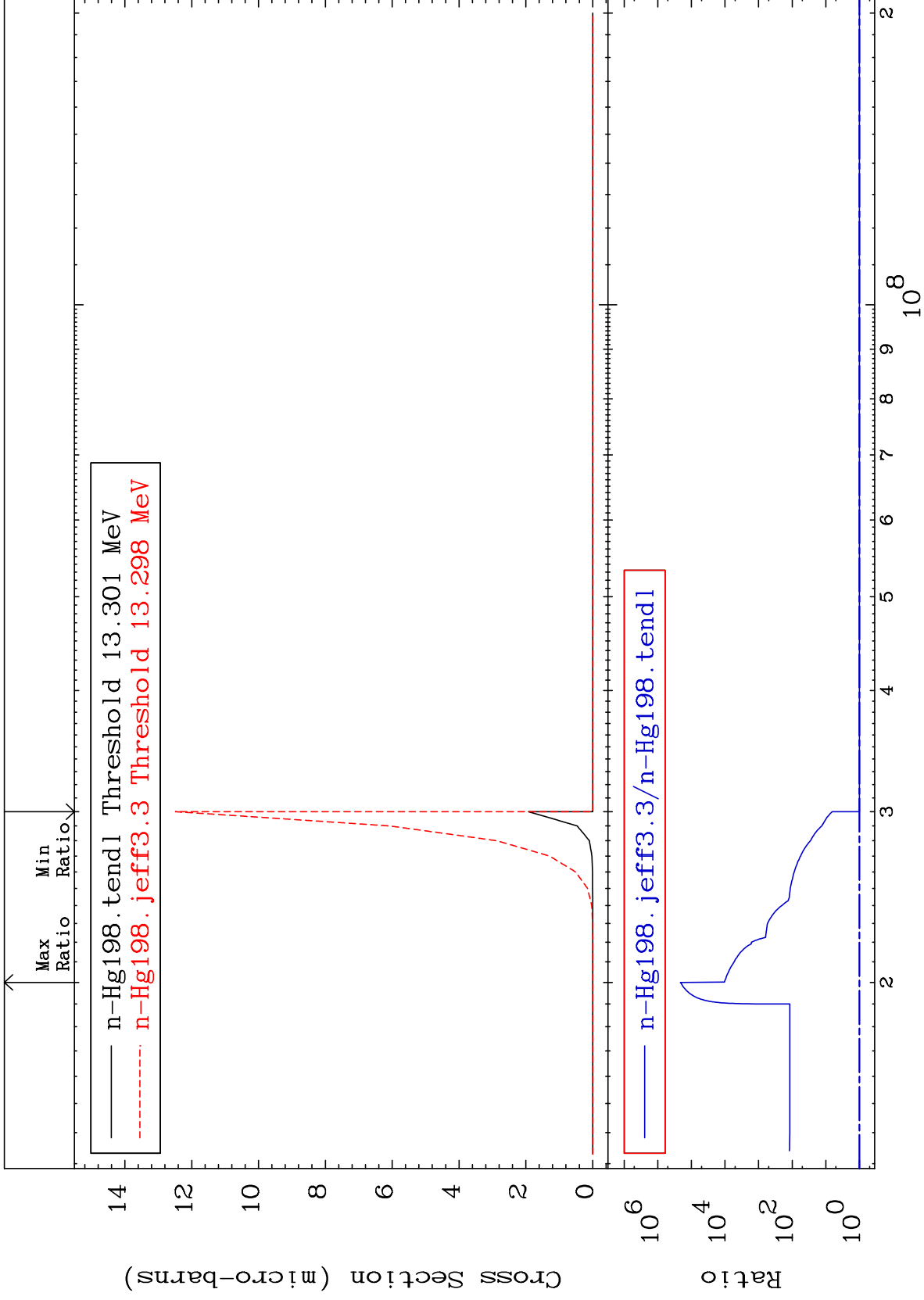
80-Hg-198  
-23.15 To 9999. %



MAT 8031

(n,3n)  $\alpha$

80-Hg-198  
Cross Section  
0.000 To 9999. %



10

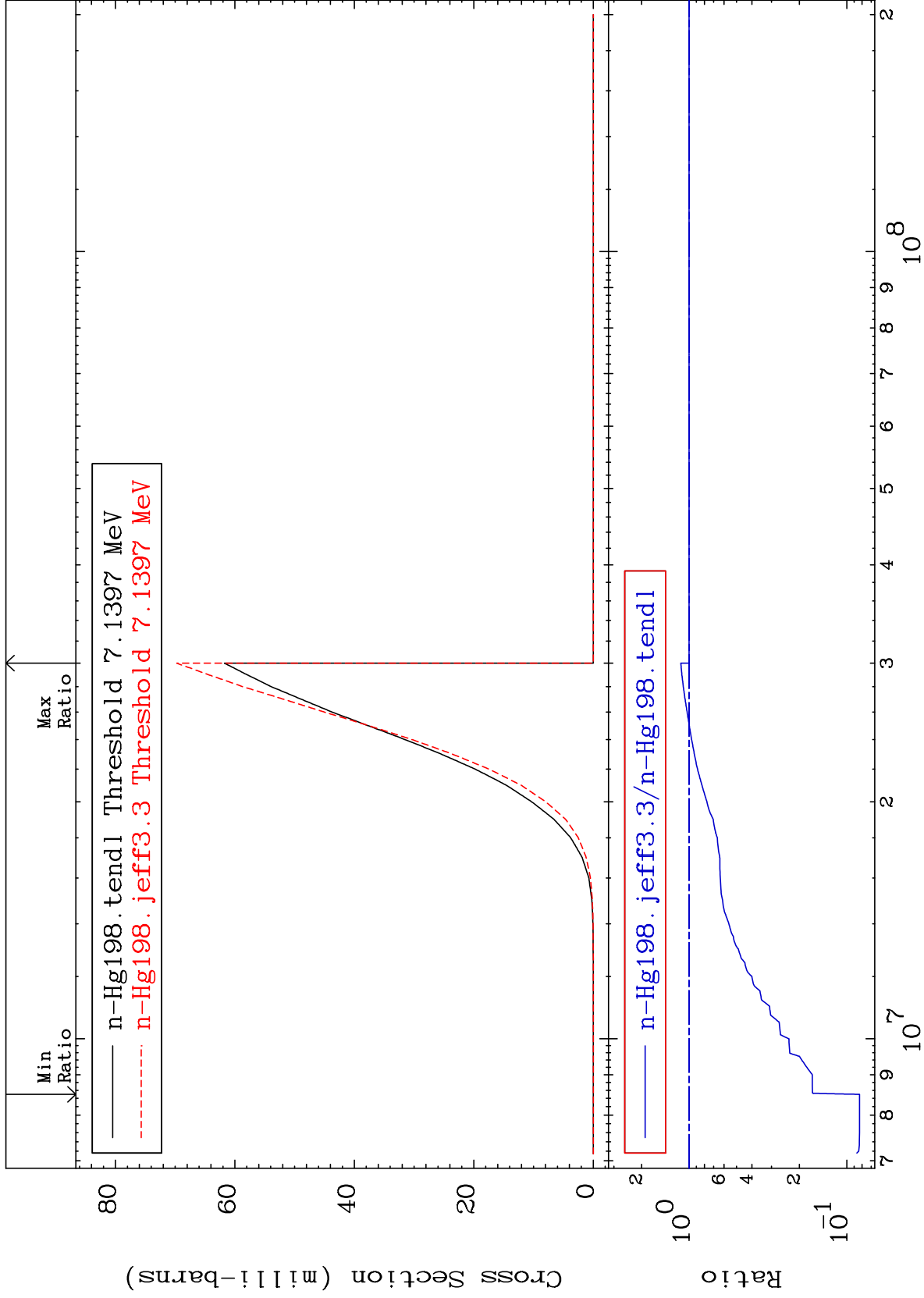
Incident Energy (eV)

80-Hg-198

MAT 8031

(n,n') p  
Cross Section

80-Hg-198  
-91.70 To 12.92 %



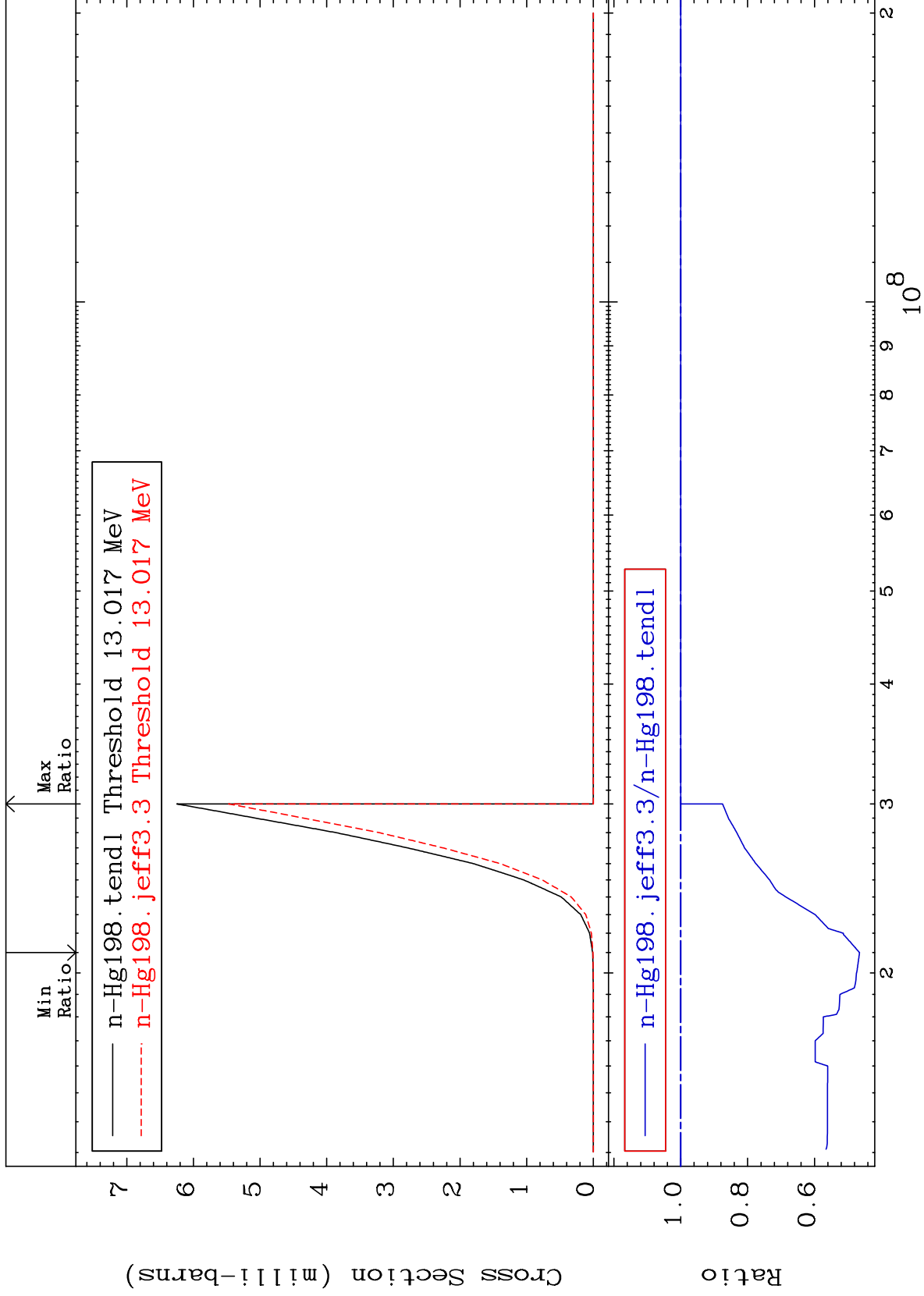
MAT 8031

(n, n') d

80-Hg-198

Cross Section

-53.48 To 0.000 %



12

Incident Energy (eV)

80-Hg-198

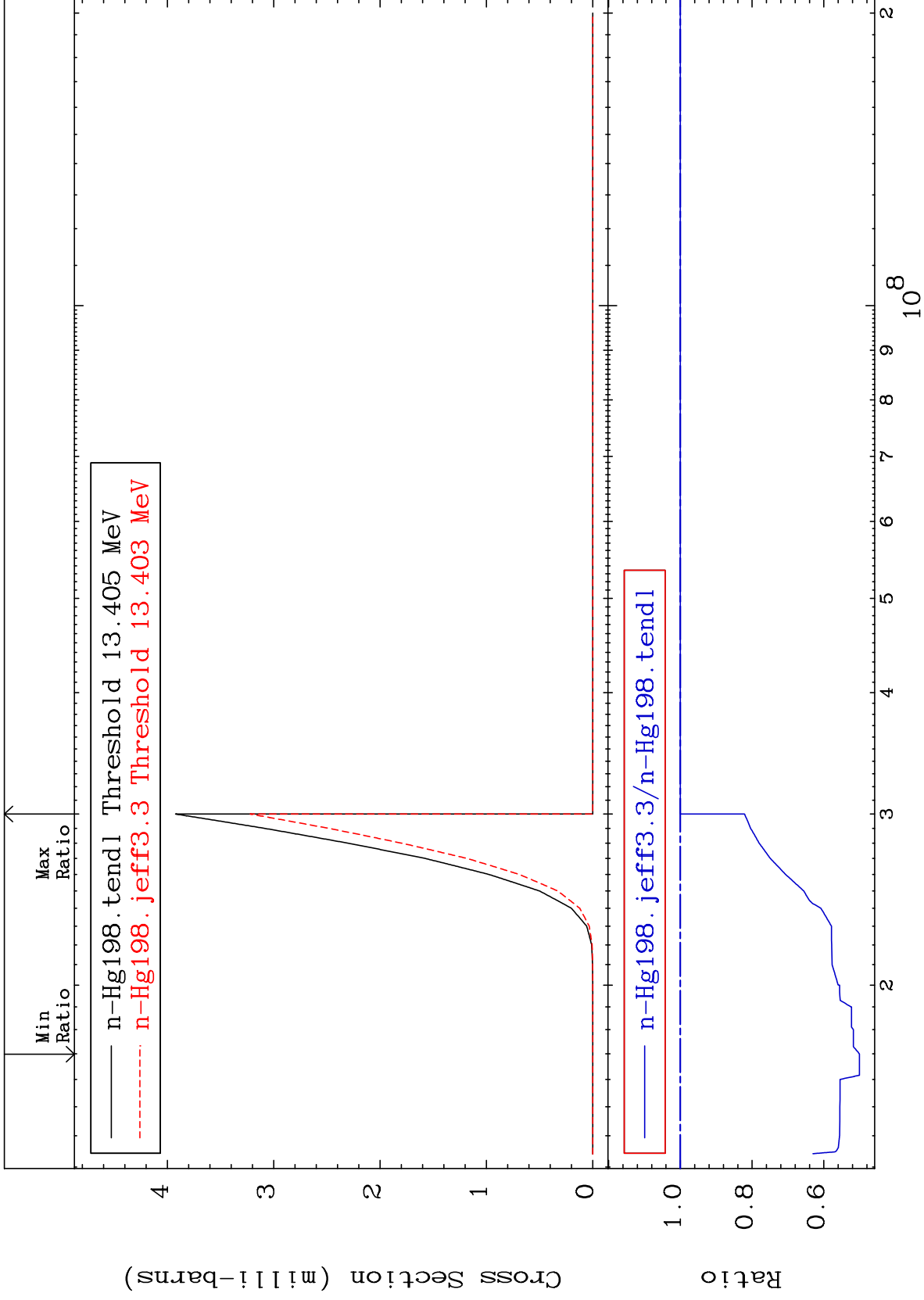
MAT 8031

(n,n') t

80-Hg-198

Cross Section

-49.91 To 0.000 %



13

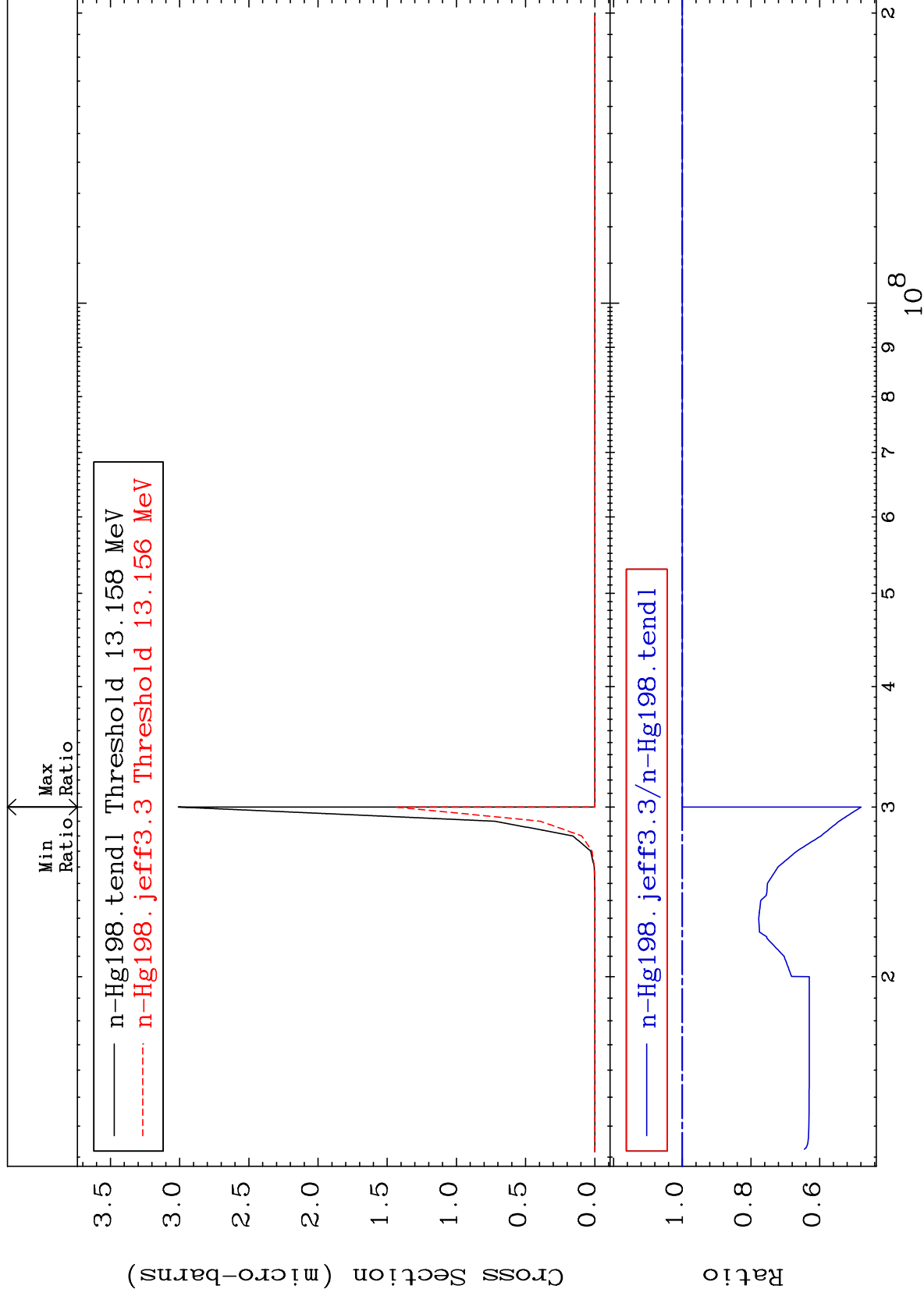
Incident Energy (eV)

80-Hg-198

MAT 8031

(n, n') He-3  
Cross Section

80-Hg-198  
-52.04 To 0.000 %



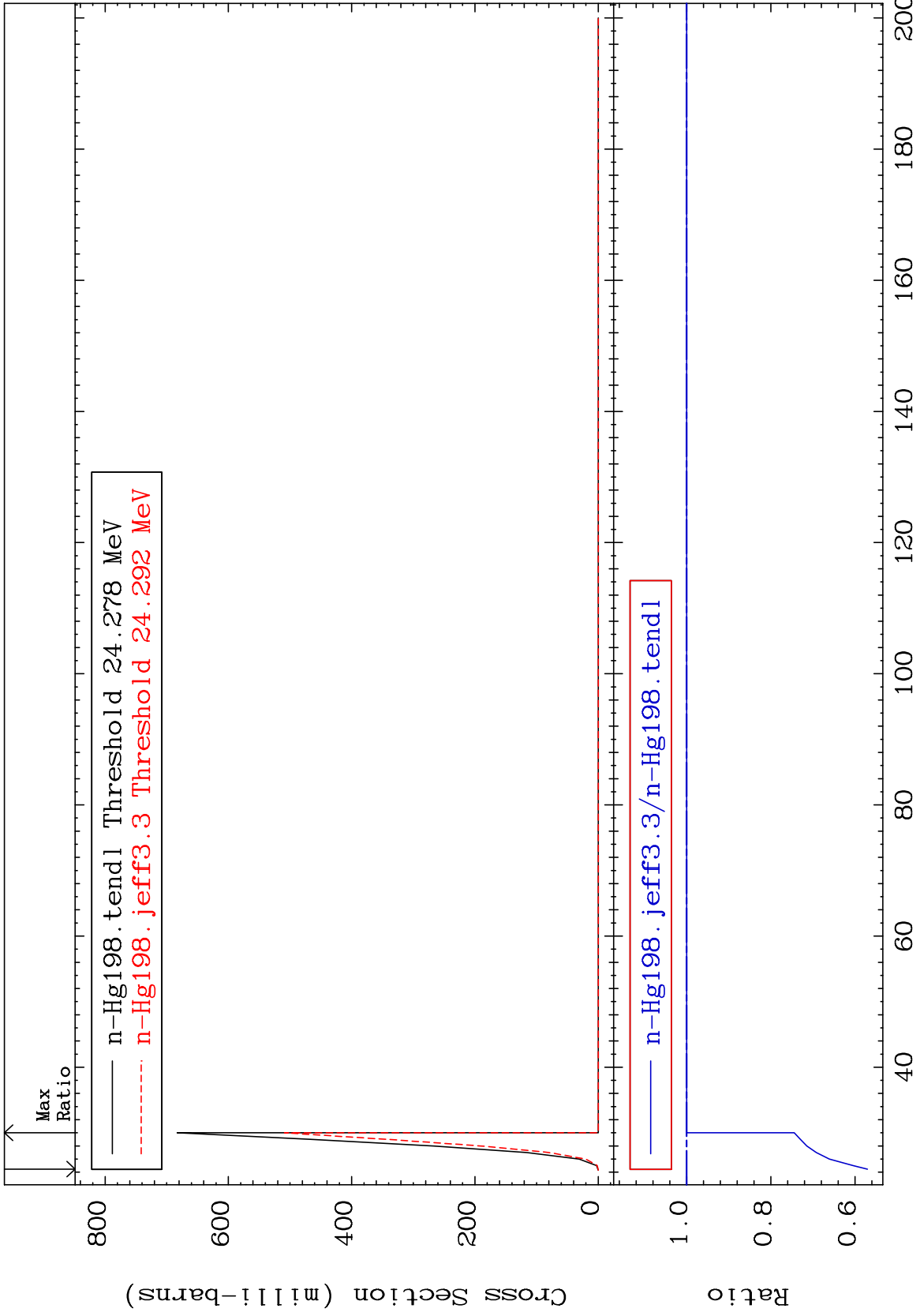
MAT 8031

(n,4n)

80-Hg-198

Cross Section

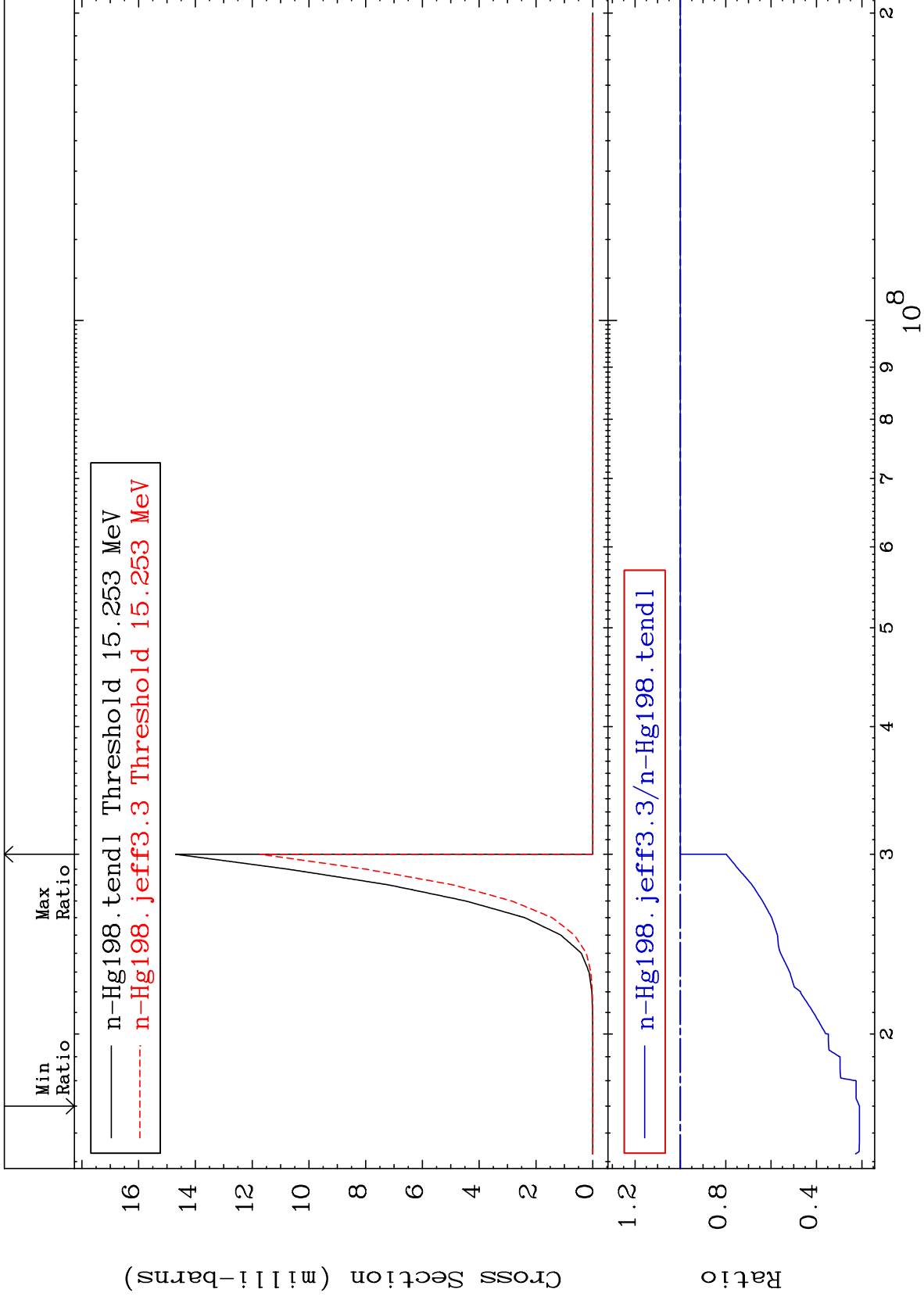
-42.93 To 0.000 %



MAT 8031

(n,2n) p  
Cross Section

80-Hg-198  
-78.93 To 0.000 %



16

Incident Energy (eV)

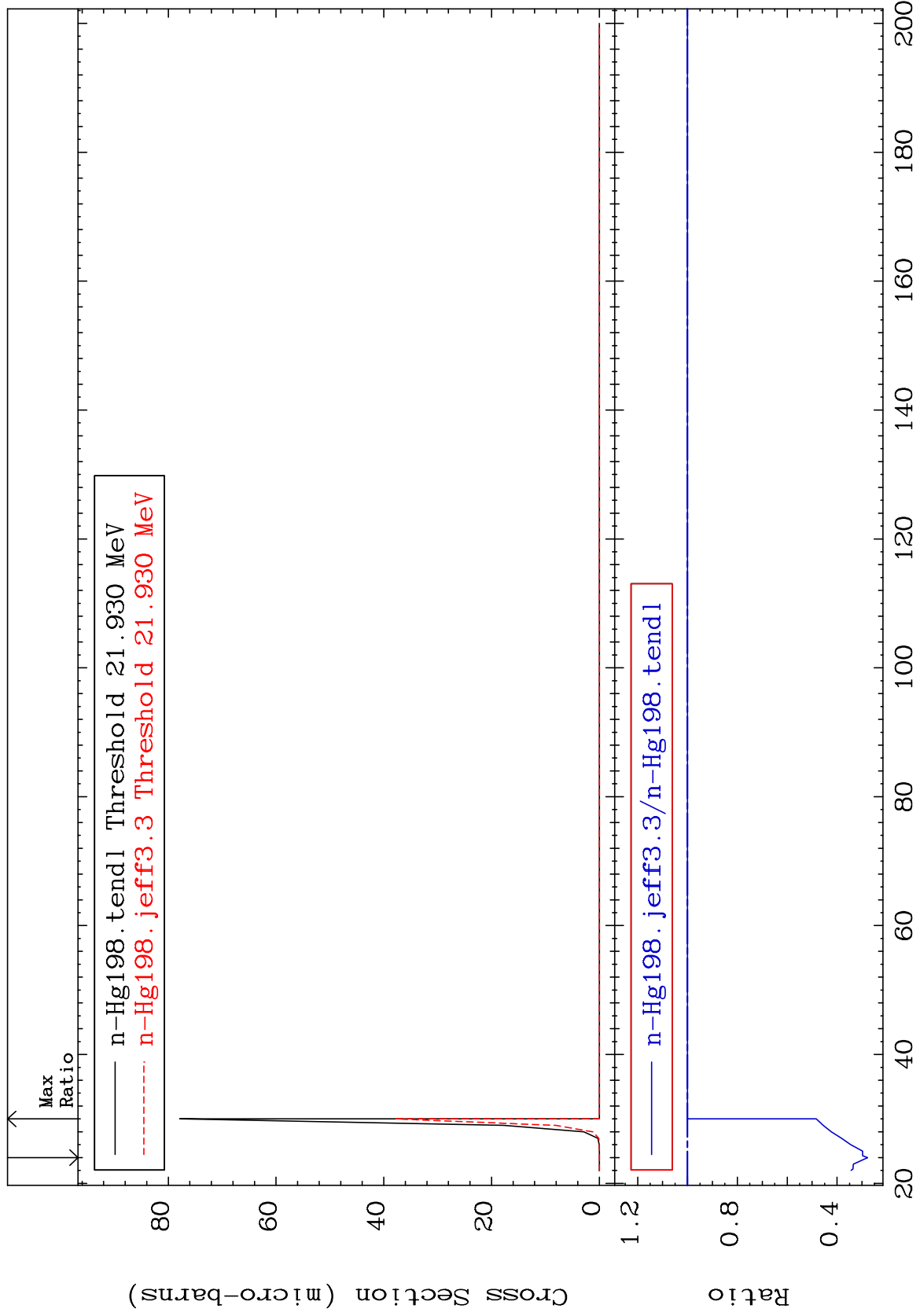
80-Hg-198



MAT 8031

(n,3n) p  
Cross Section

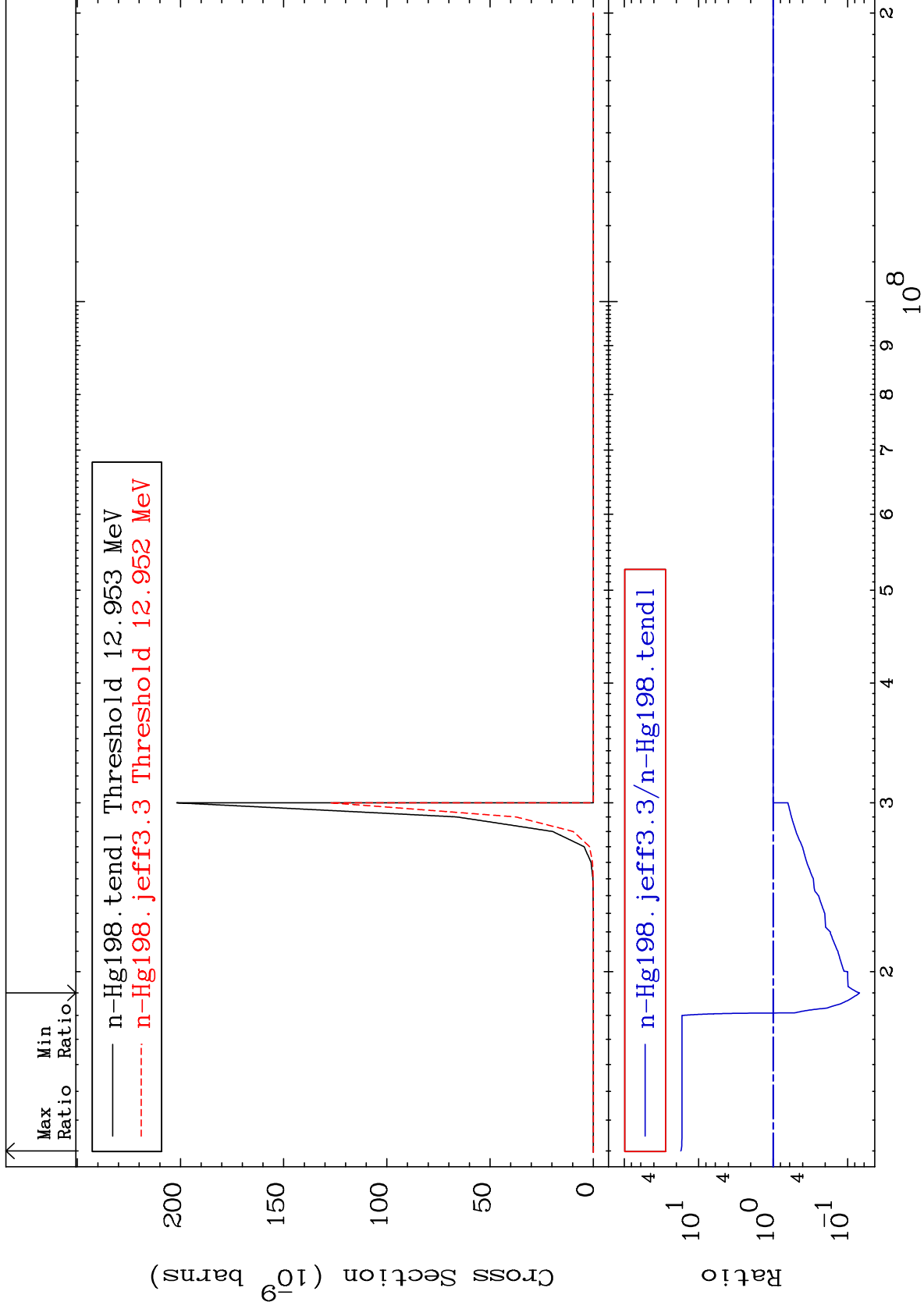
80-Hg-198  
-72.26 To 0.000 %



17

Incident Energy (MeV)

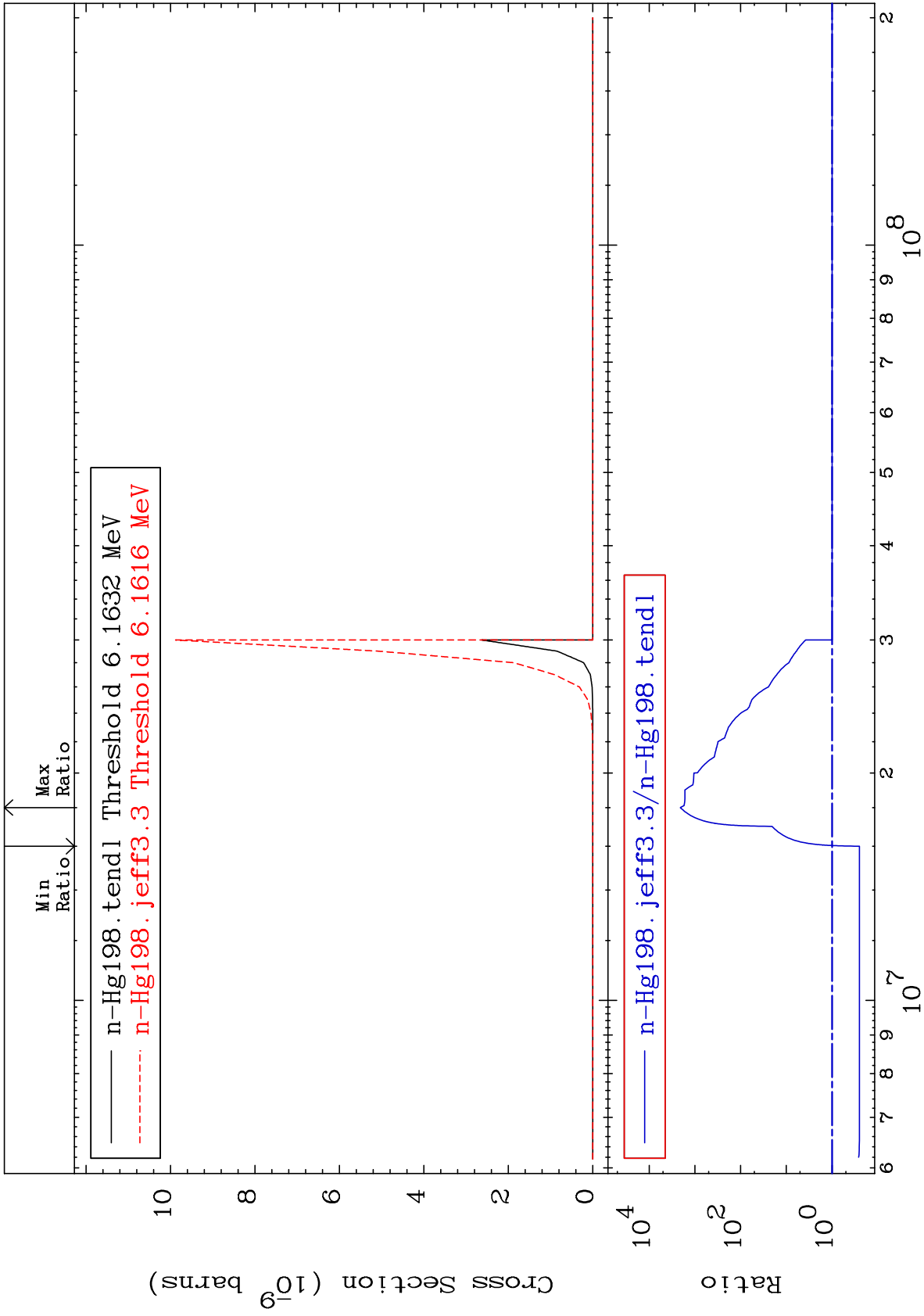
80-Hg-198



MAT 8031

(n,n') p  $\alpha$   
Cross Section

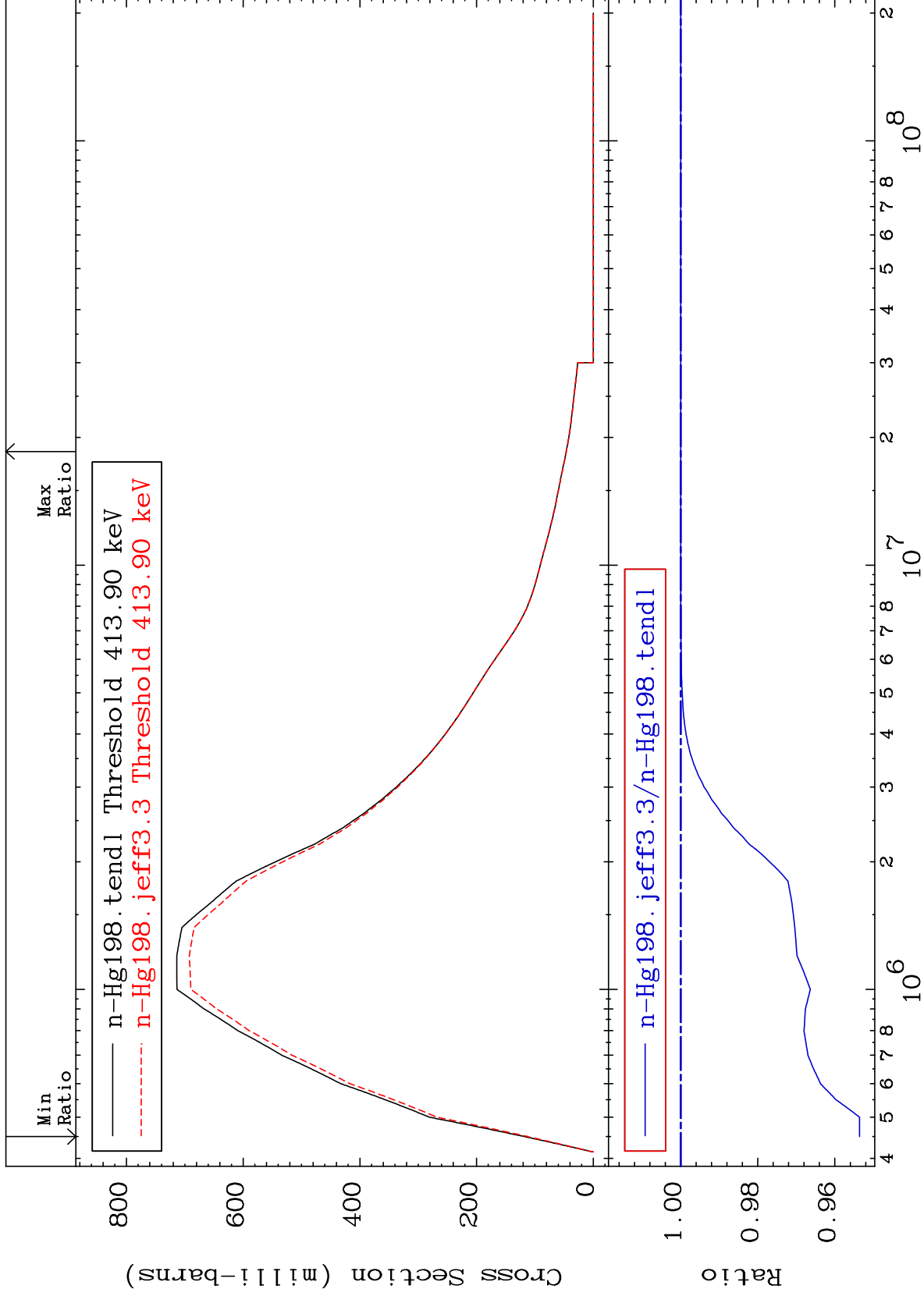
80-Hg-198  
-74.86 To 9999. %



MAT 8031

MT= 51 (n,n') Level  
Cross Section

80-Hg-198  
-4.640 To 0.000 %



20

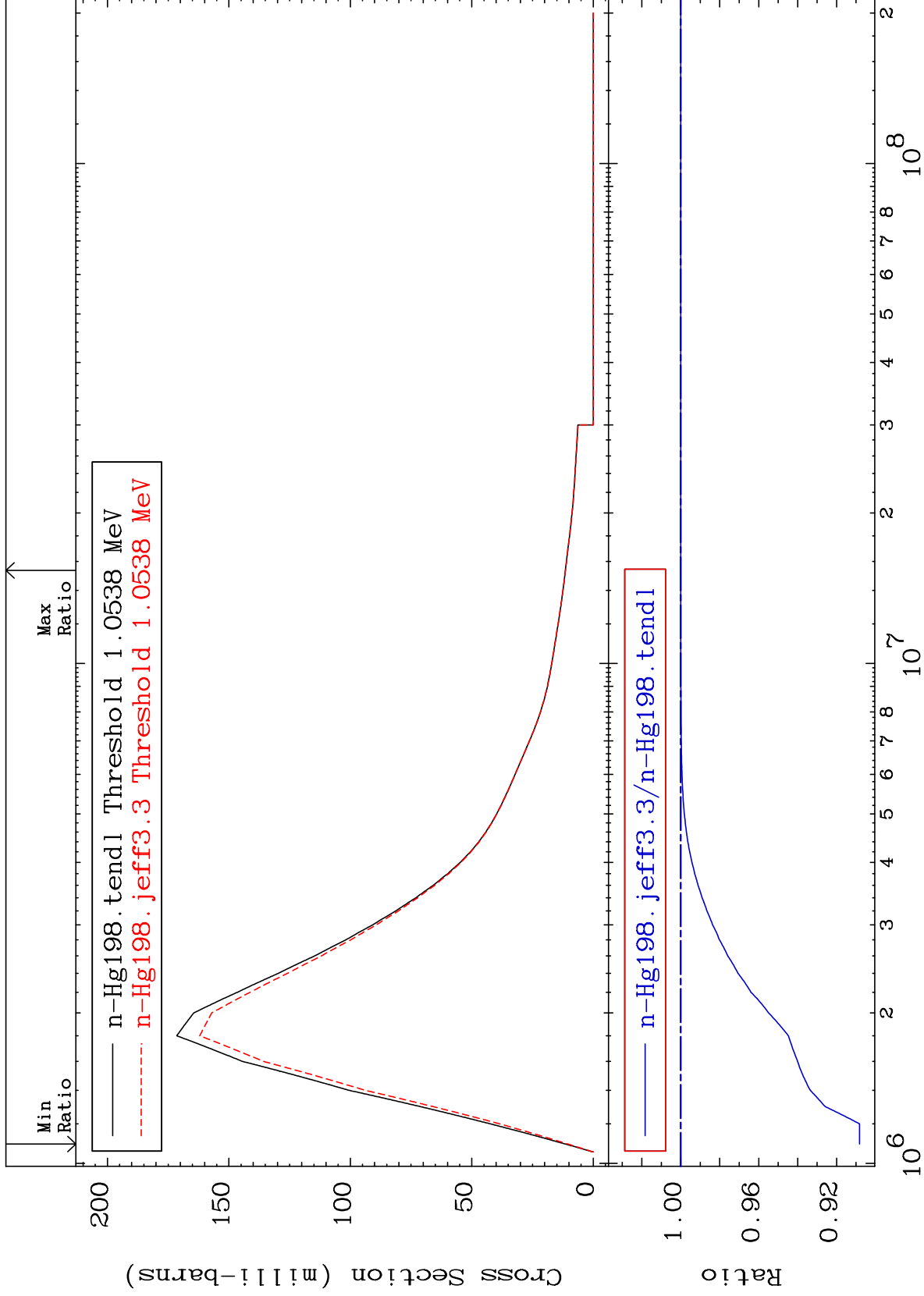
Incident Energy (eV)

80-Hg-198

MAT 8031

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

80-Hg-198  
-9.177 To 0.000 %



21

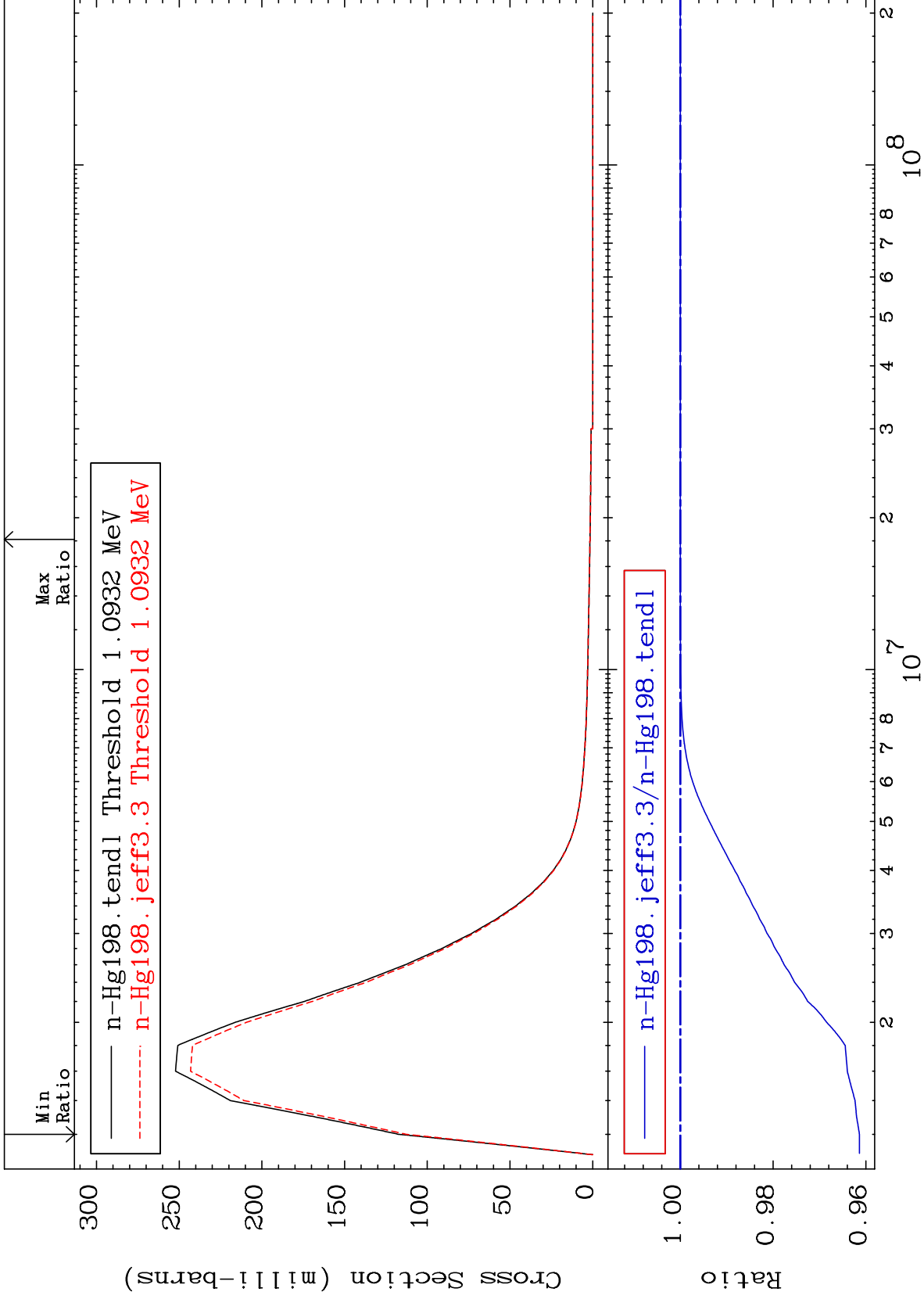
Incident Energy (eV)

80-Hg-198

MAT 8031

MT= 53 (n, n') Level  
Cross Section

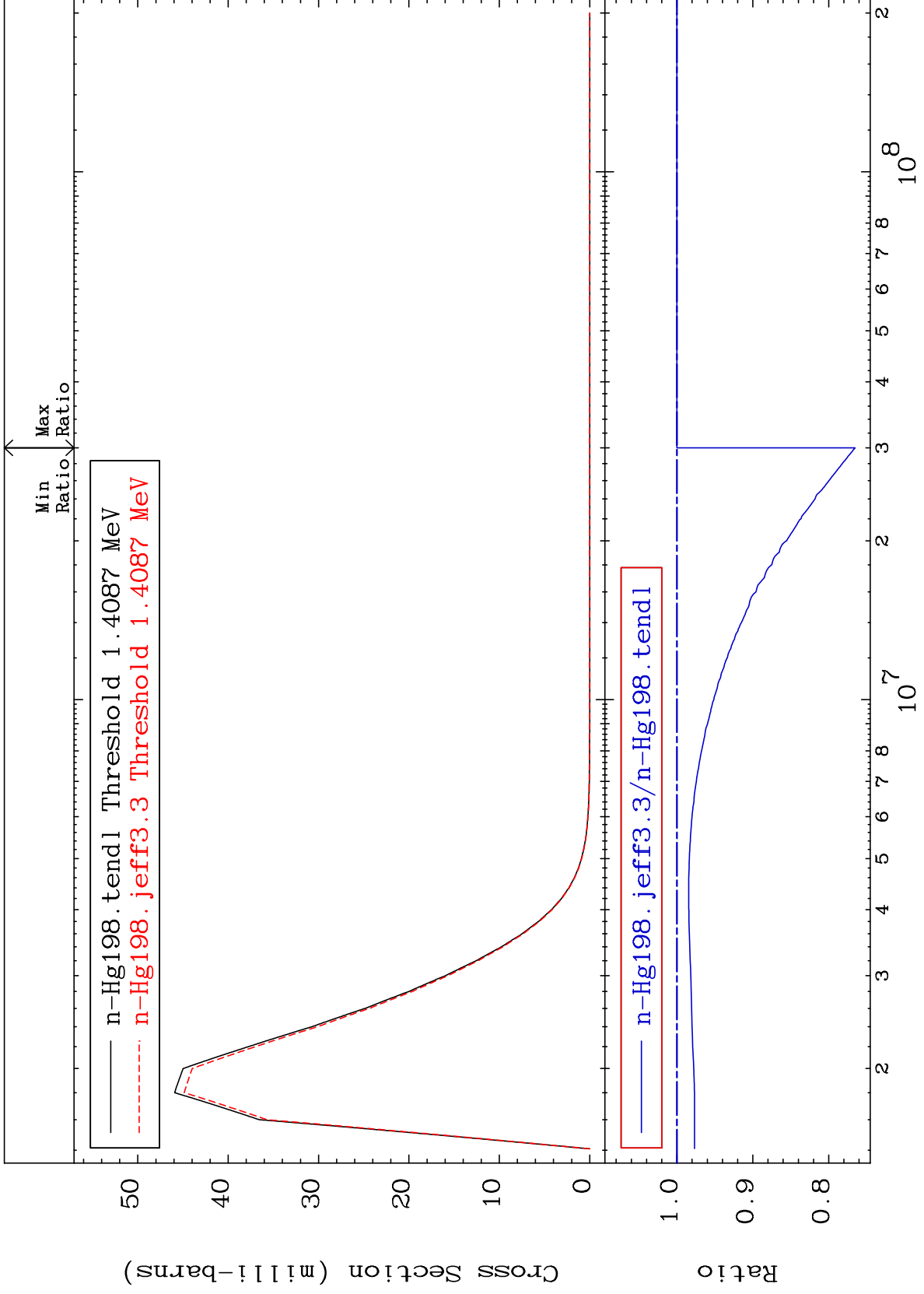
80-Hg-198  
-3.860 To 0.000 %



MAT 8031

MT= 54 (n,n') Level  
Cross Section

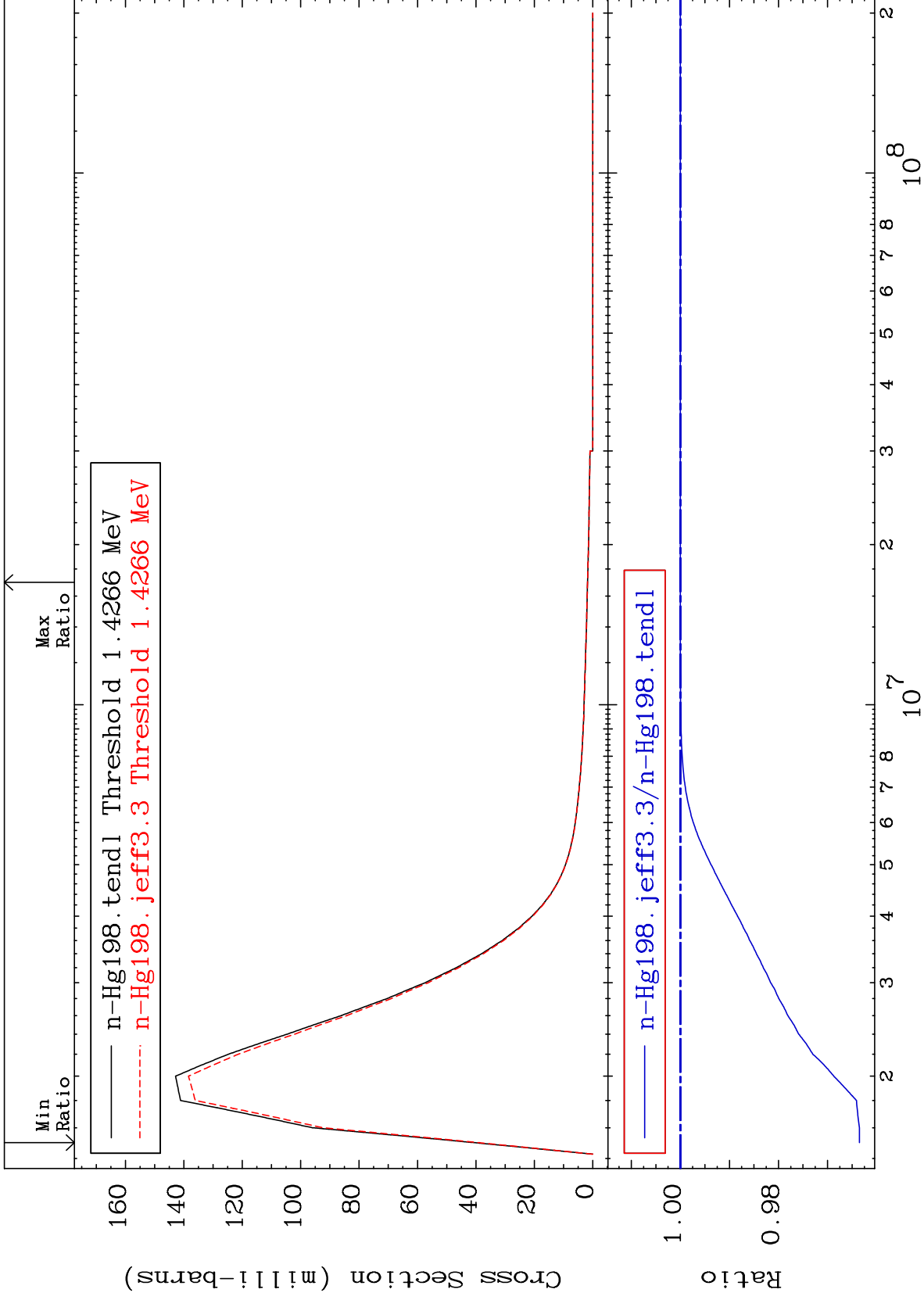
80-Hg-198  
-23.47 To 0.000 %



MAT 8031

MT= 55 (n,n') Level  
Cross Section

80-Hg-198  
-3.650 To 0.000 %

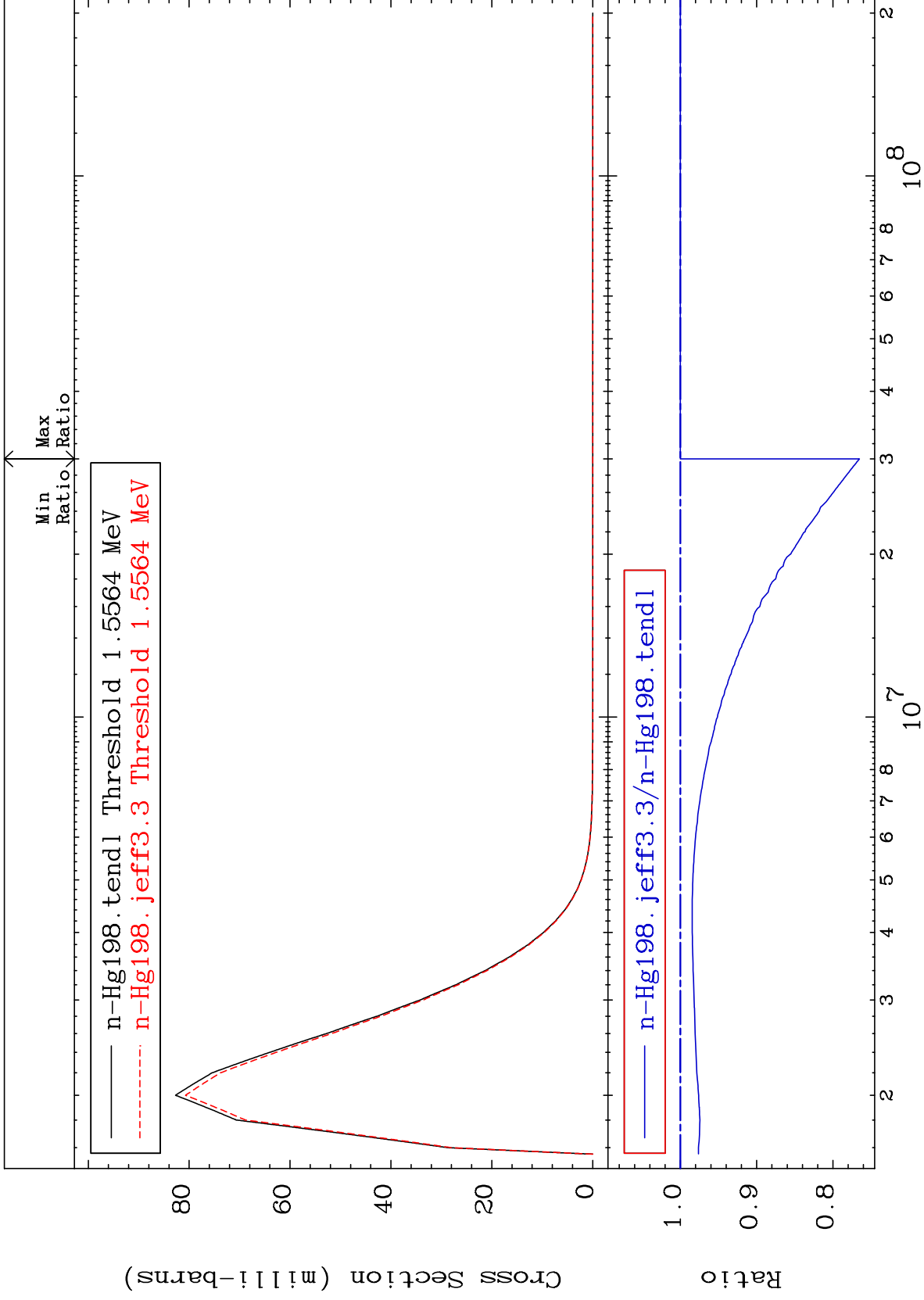




MAT 8031

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

80-Hg-198  
-23.47 To 0.000 %



25

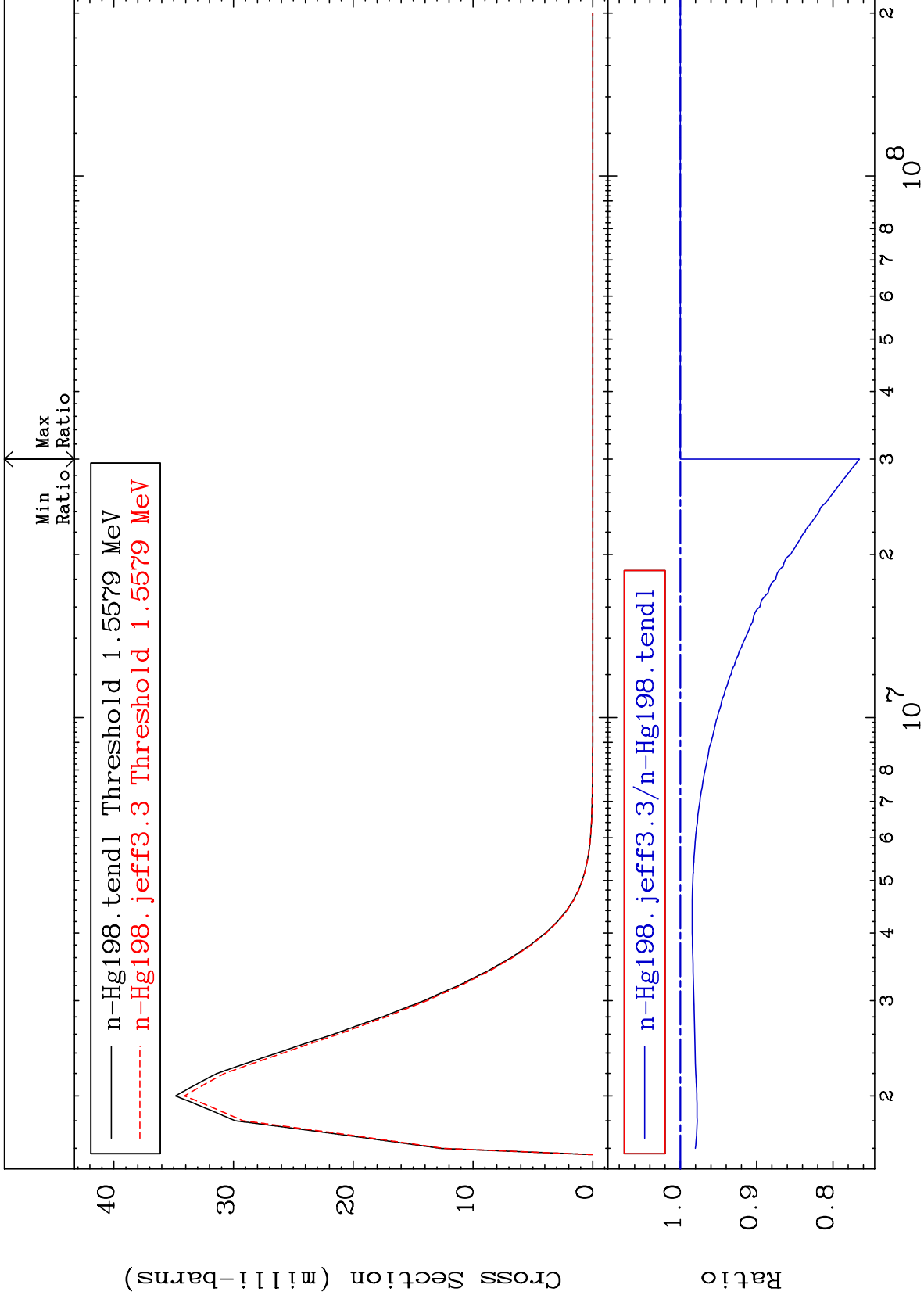
Incident Energy (eV)

80-Hg-198

MAT 8031

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

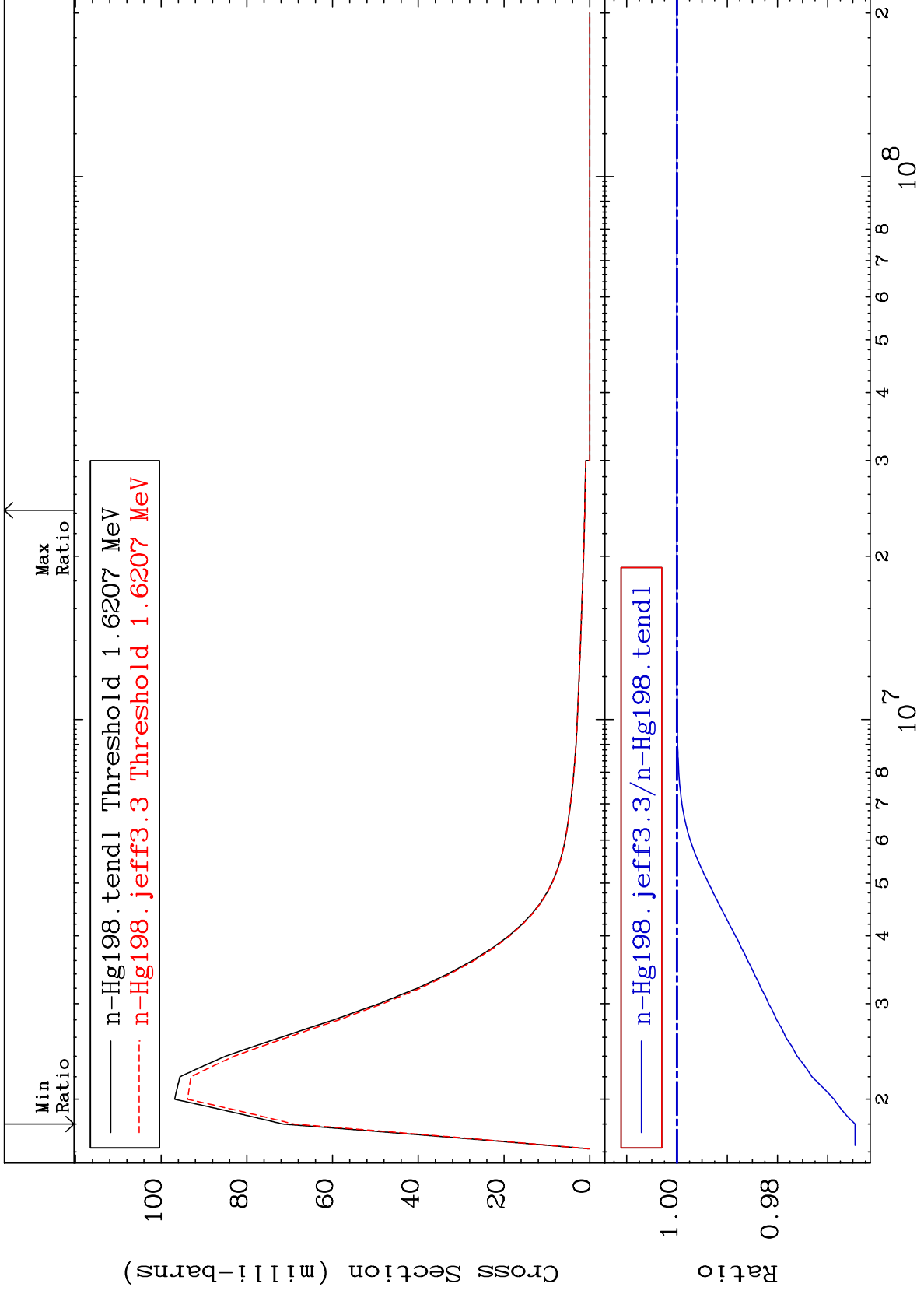
80-Hg-198  
-23.47 To 0.000 %



MAT 8031

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

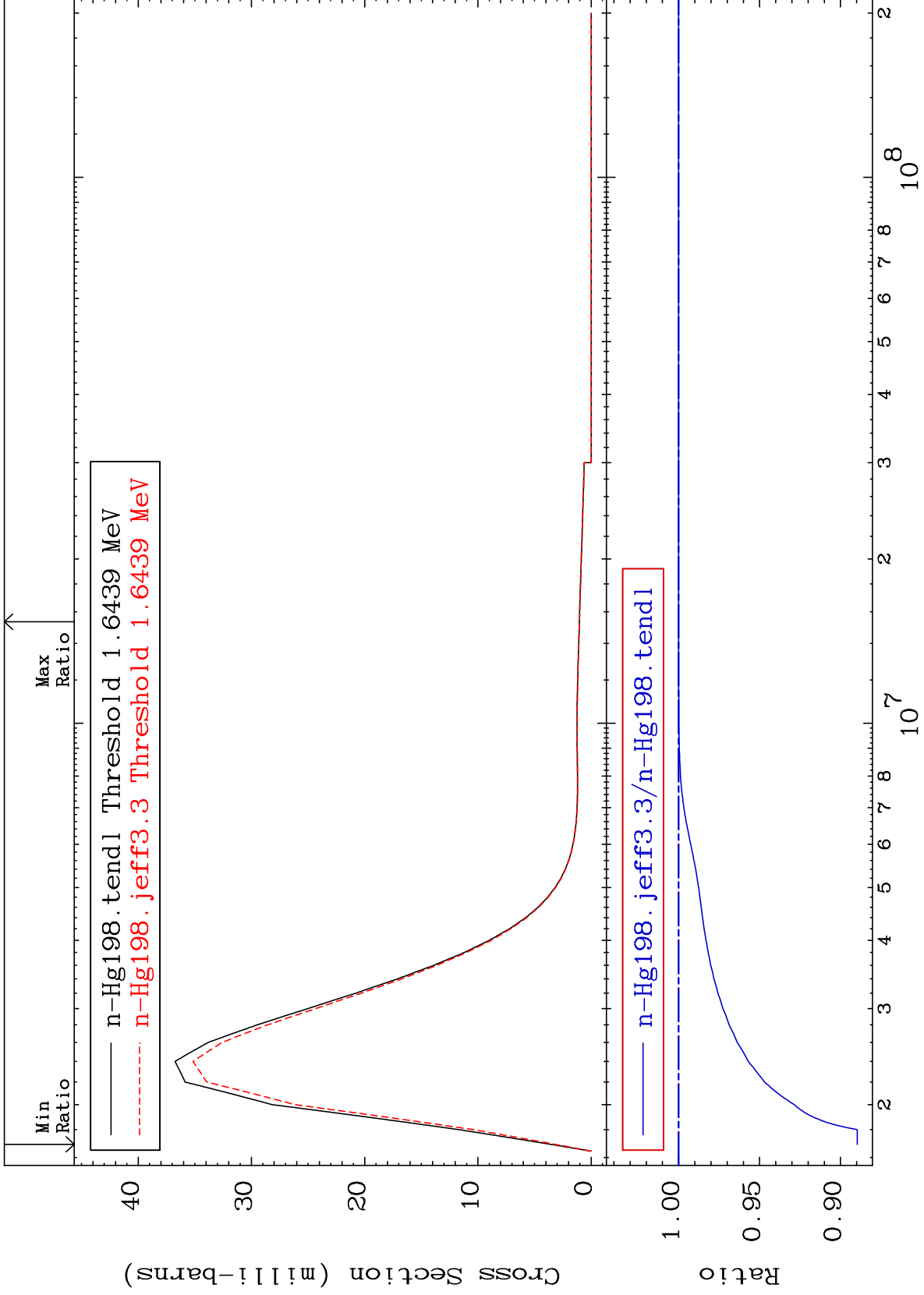
80-Hg-198  
-3.545 To 0.000 %



MAT 8031

MT= 59 (n,n') Level  
Cross Section

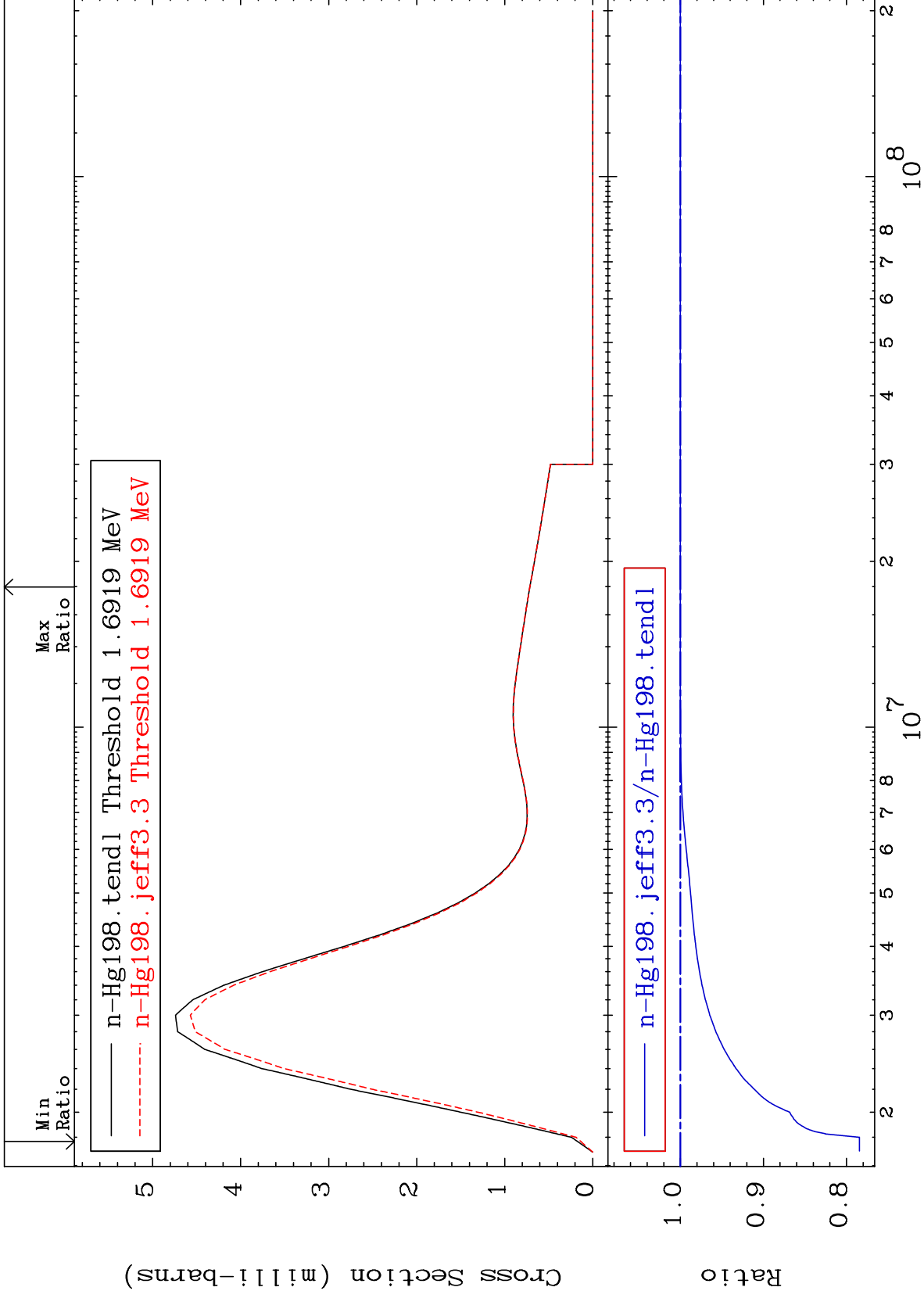
80-Hg-198  
-11.04 To 0.000 %



MAT 8031

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

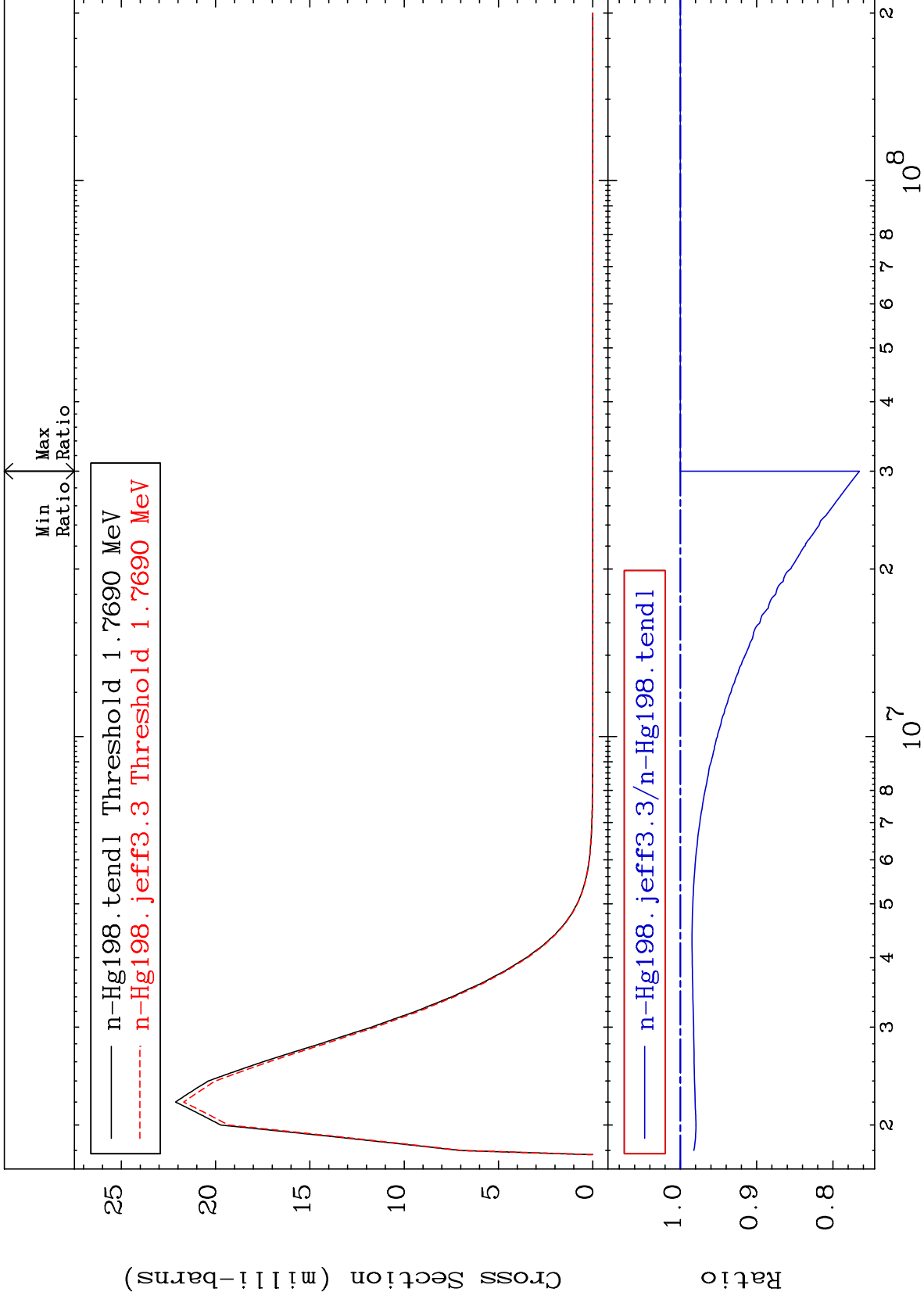
80-Hg-198  
-21.56 To 0.000 %



MAT 8031

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

80-Hg-198  
-23.47 To 0.000 %



30

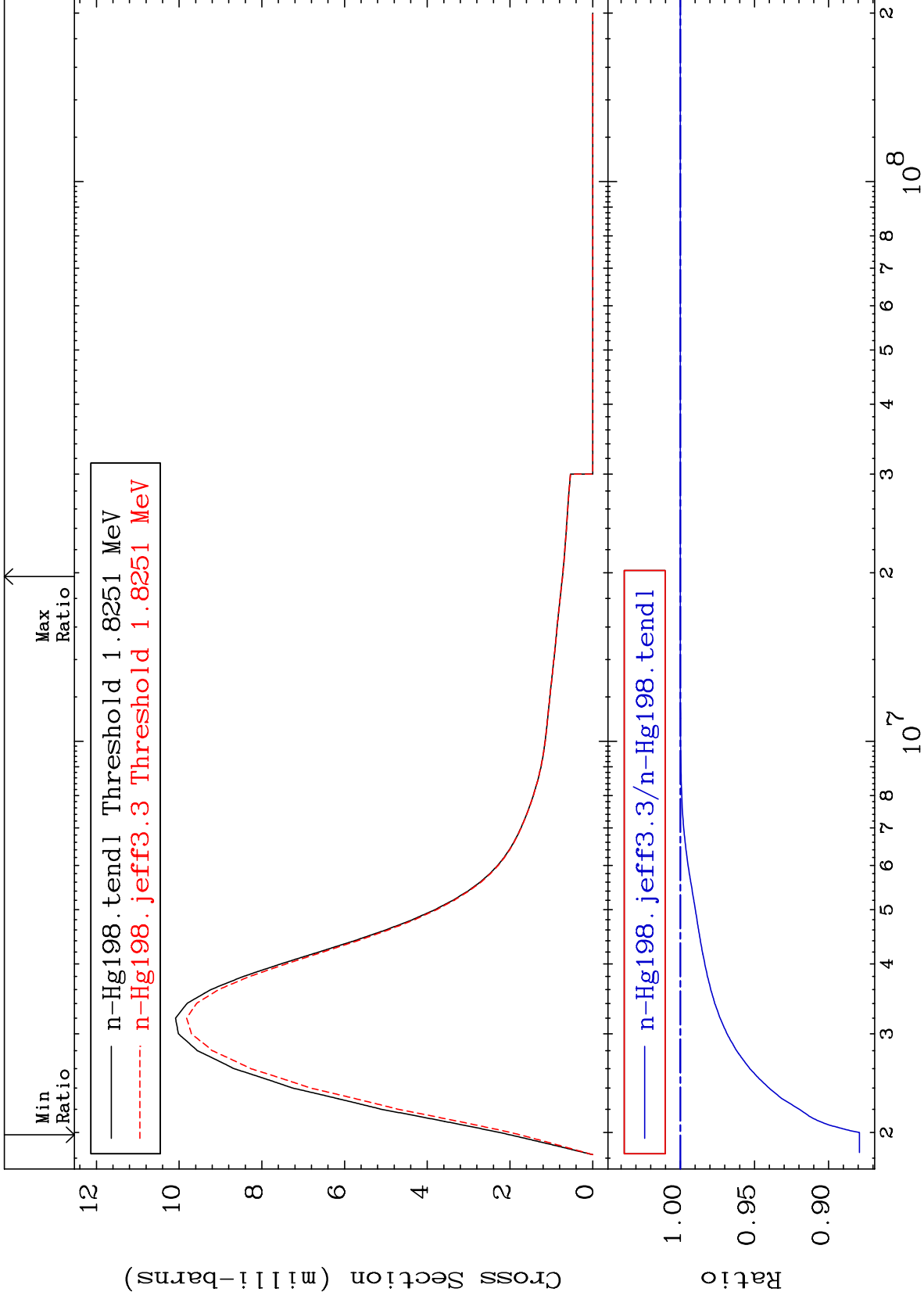
Incident Energy (eV)

80-Hg-198

MAT 8031

MT= 62 (n, n') Level  
Cross Section

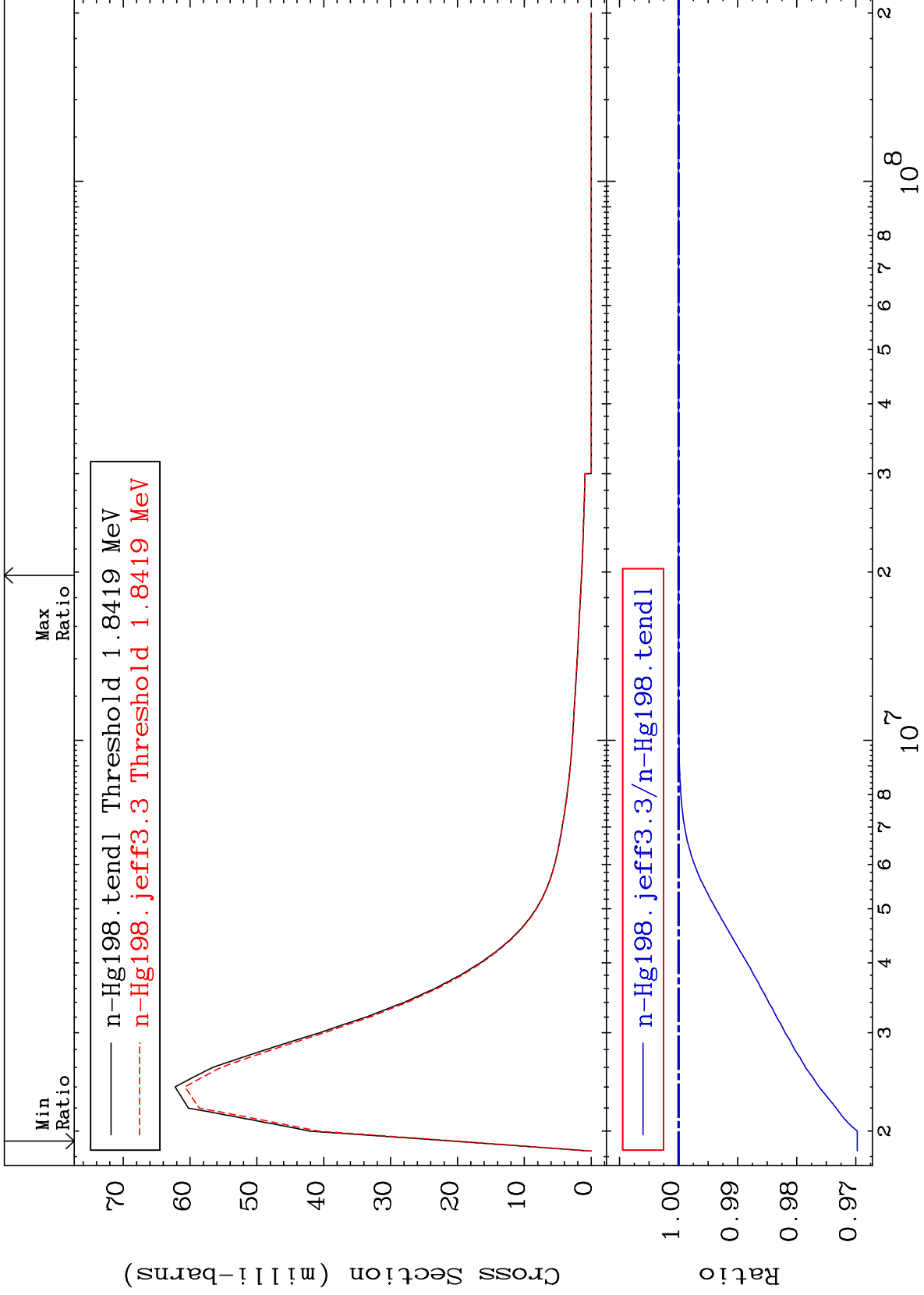
80-Hg-198  
-12.08 To 0.000 %



MAT 8031

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

80-Hg-198  
-3.025 To 0.000 %

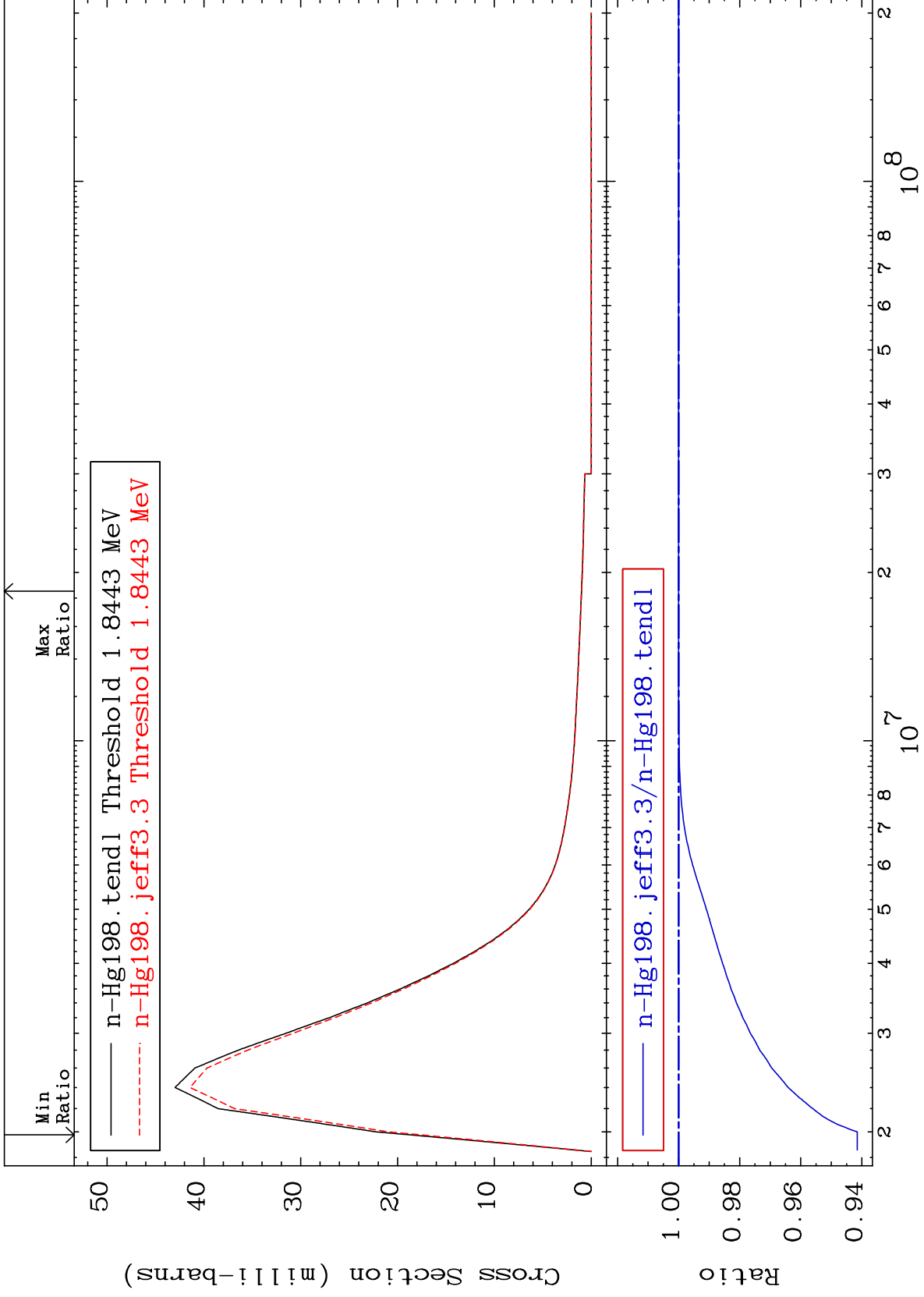




MAT 8031

MT= 64 (n,n') Level  
Cross Section

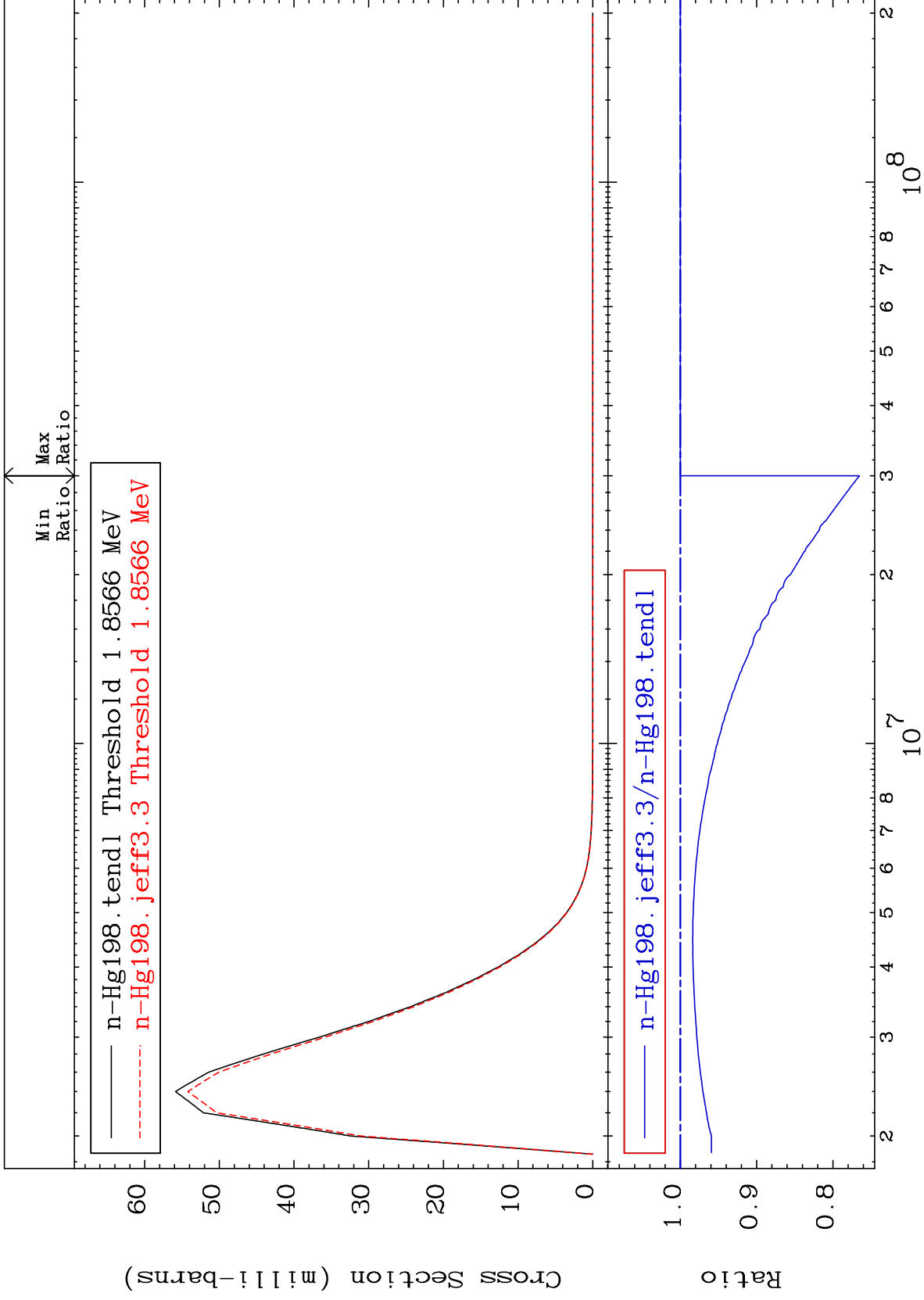
80-Hg-198  
-5.850 To 0.000 %



MAT 8031

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

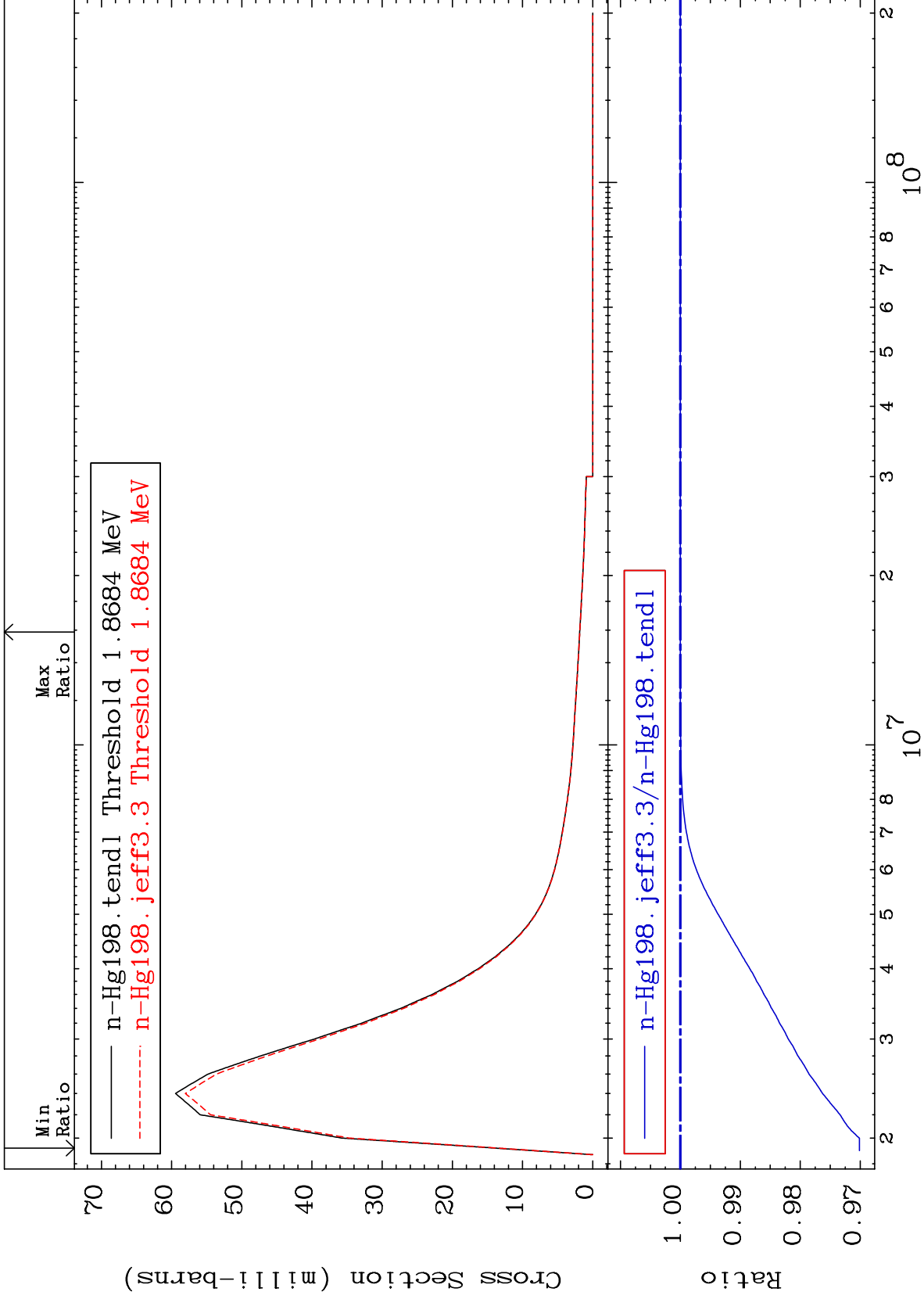
80-Hg-198  
-23.47 To 0.000 %



MAT 8031

MT= 66 (n,n') Level  
Cross Section

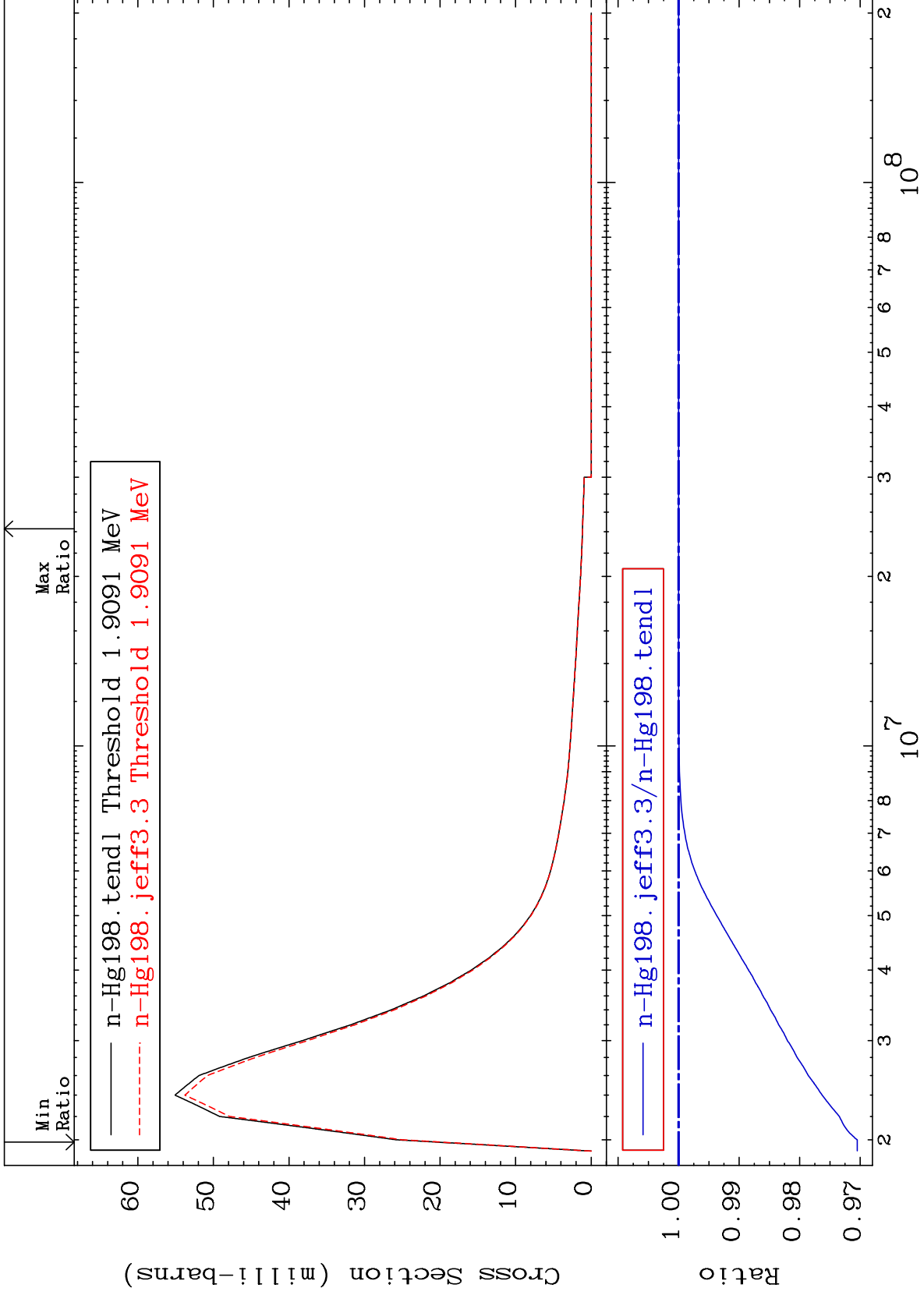
80-Hg-198  
-2.988 To 0.000 %



MAT 8031

MT= 67 (n, n') Level  
Cross Section

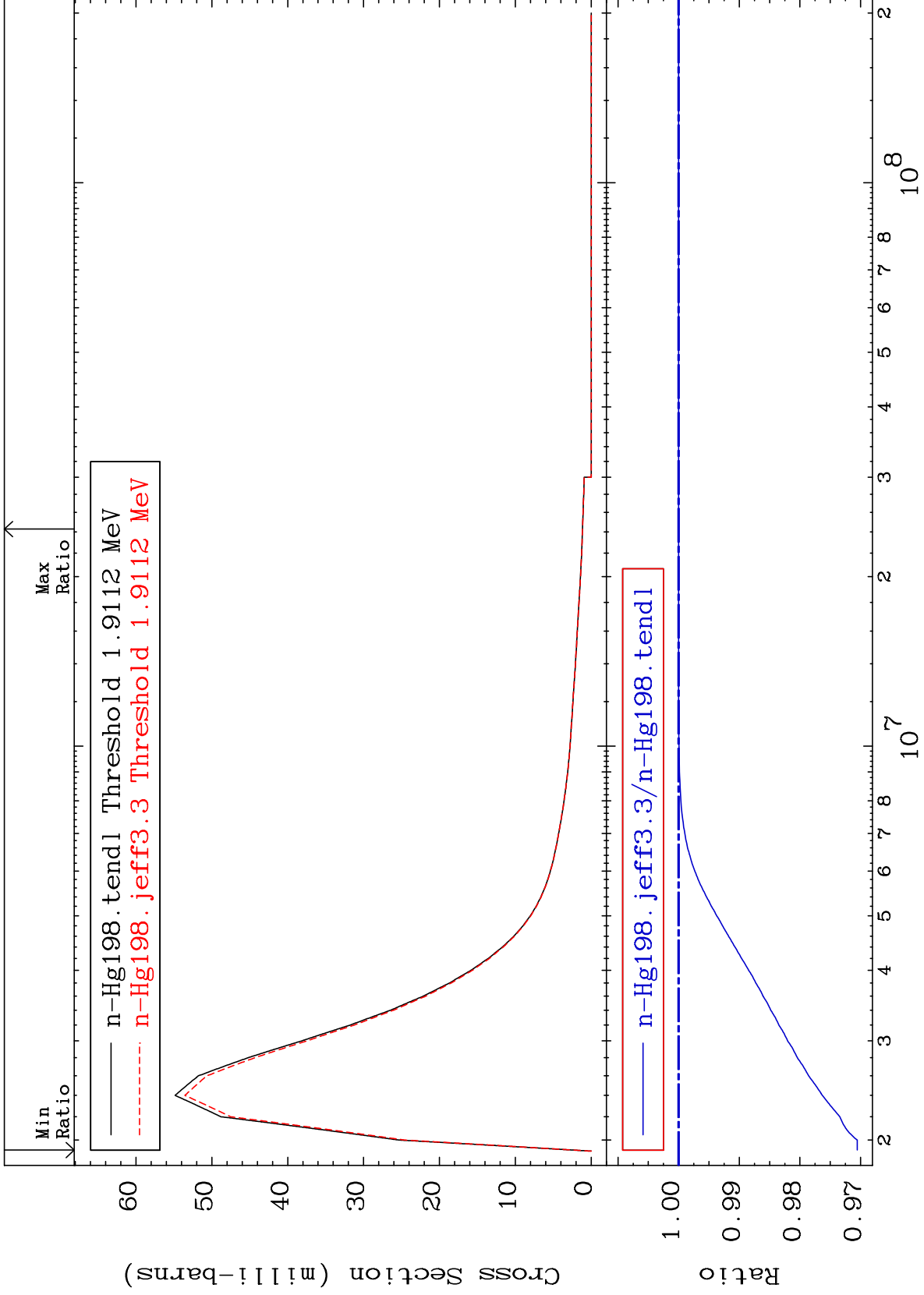
80-Hg-198  
-2.952 To 0.000 %



MAT 8031

MT= 68 (n,n') Level  
Cross Section

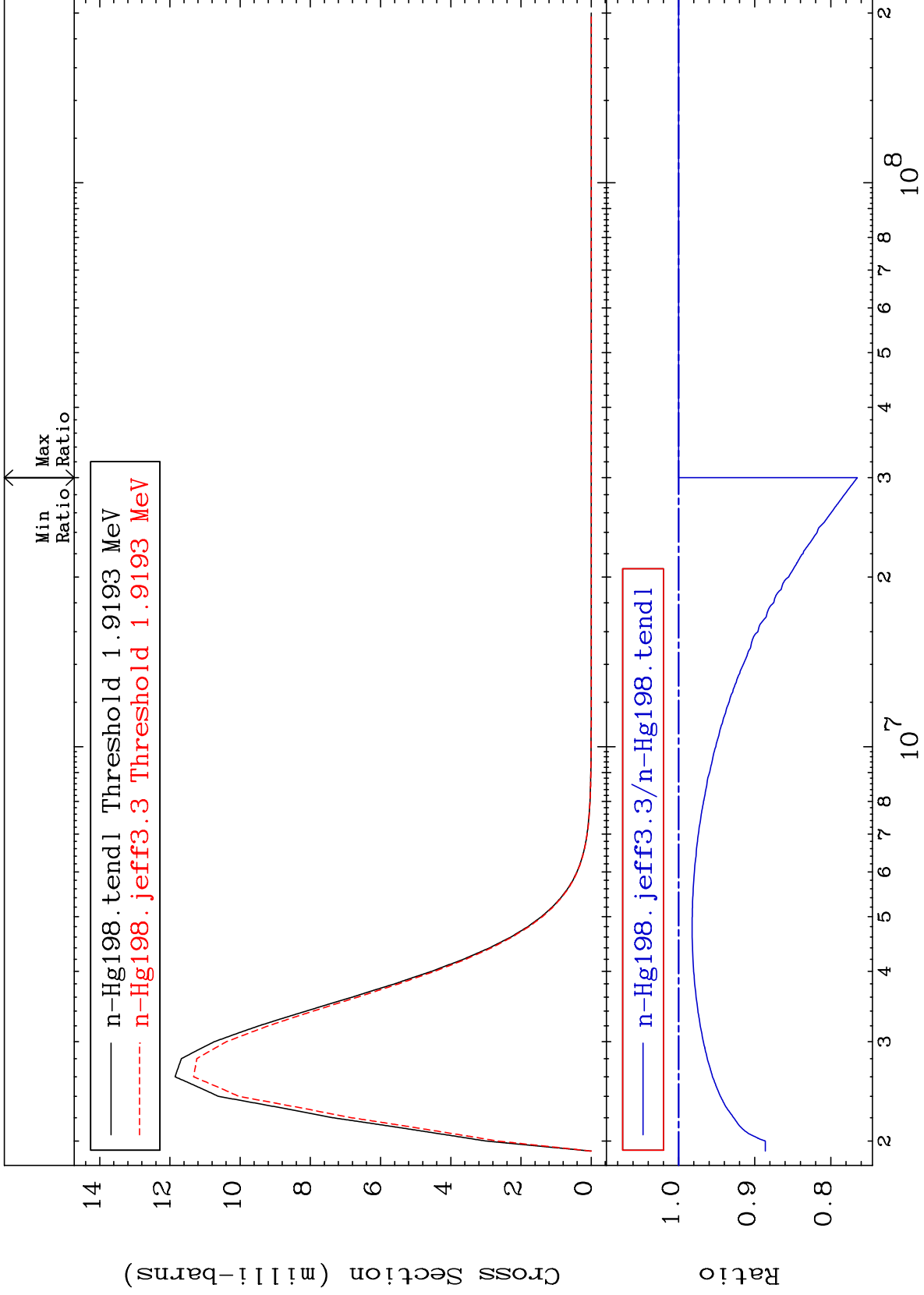
80-Hg-198  
-2.945 To 0.000 %



MAT 8031

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

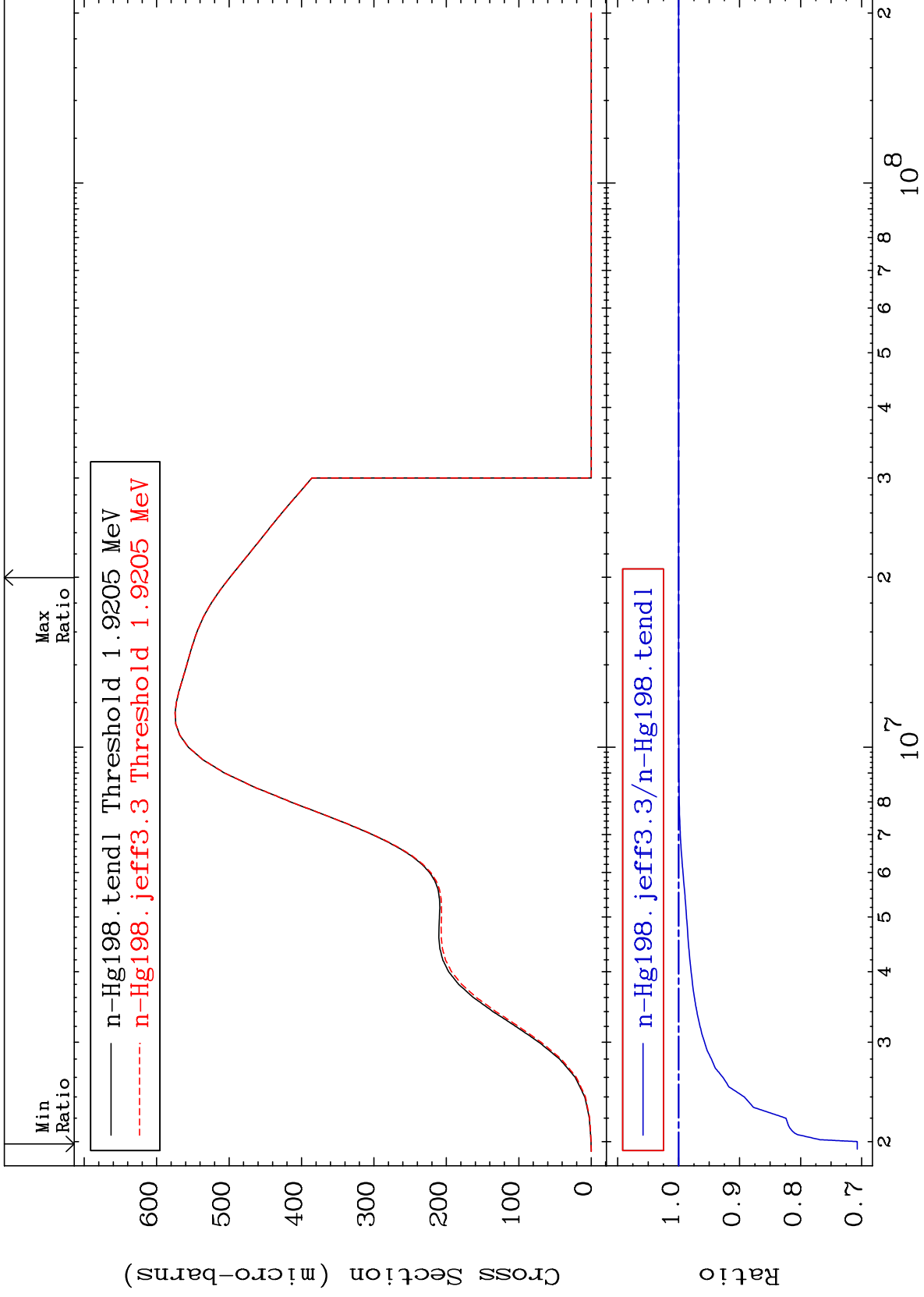
80-Hg-198  
-23.47 To 0.000 %



MAT 8031

MT= 70 (n,n') Level  
Cross Section

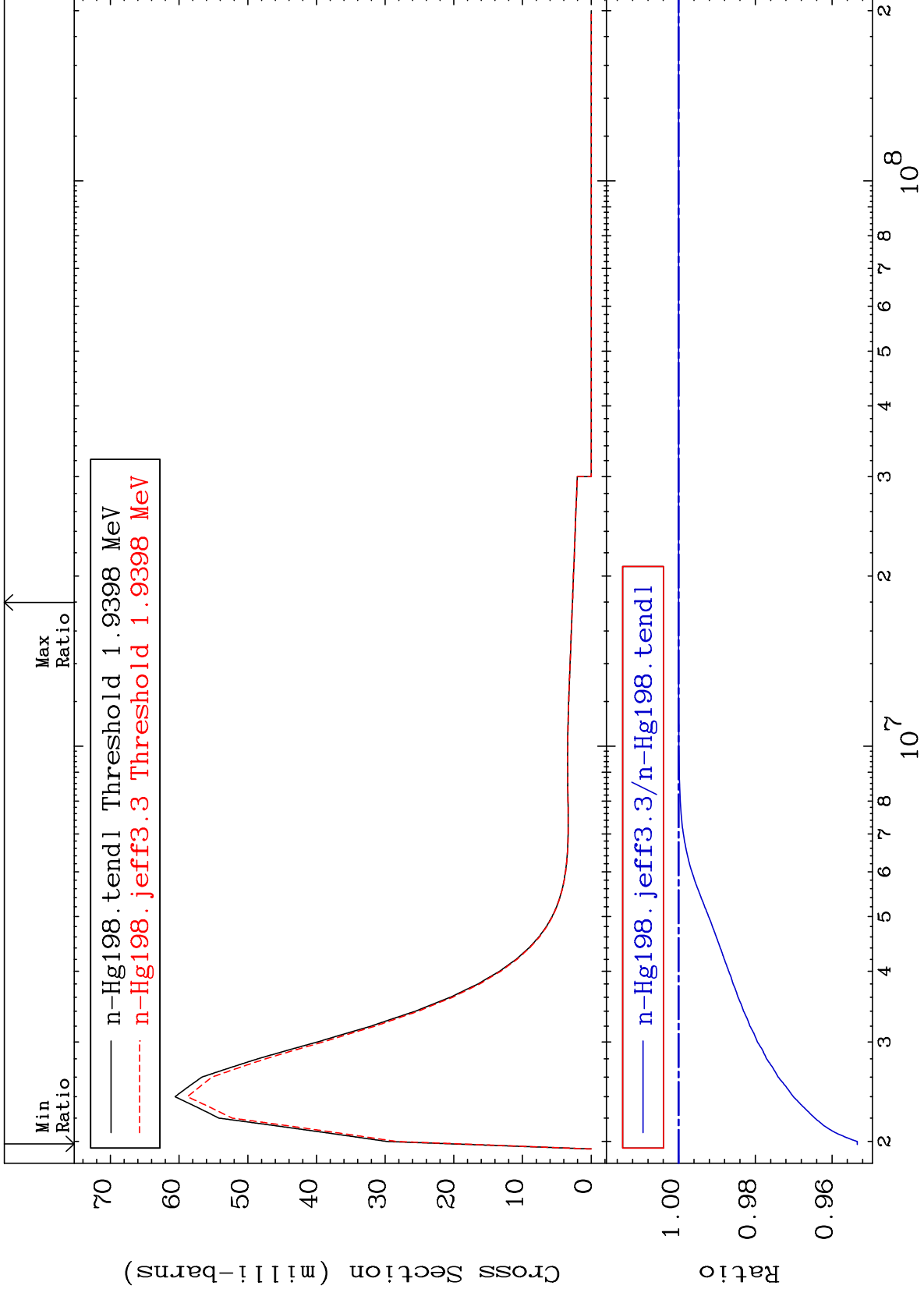
80-Hg-198  
-29.29 To 0.000 %



MAT 8031

MT= 71 (n,n') Level  
Cross Section

80-Hg-198  
-4.658 To 0.000 %



40

Incident Energy (eV)

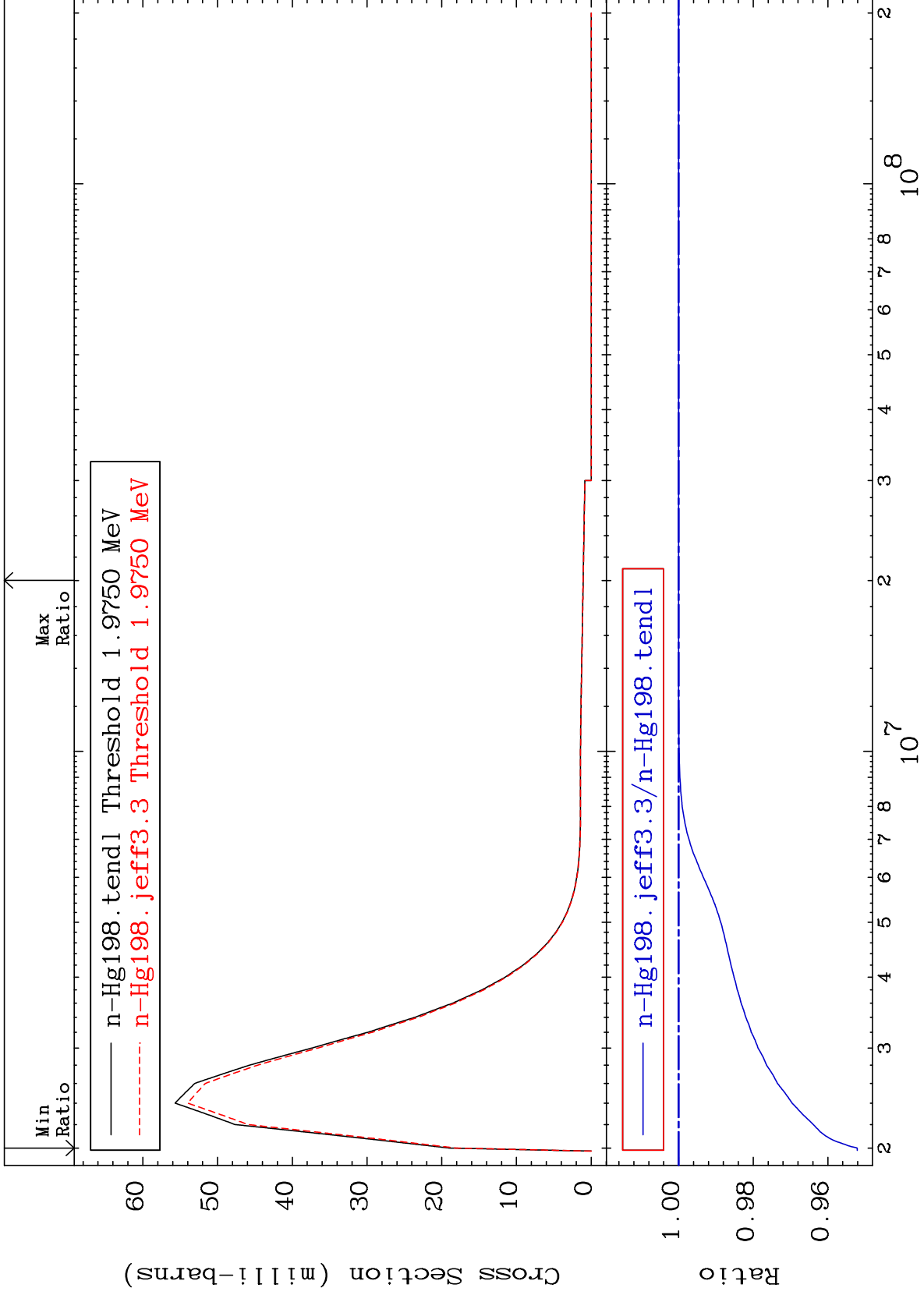
80-Hg-198



MAT 8031

MT= 72 (n,n') Level  
Cross Section

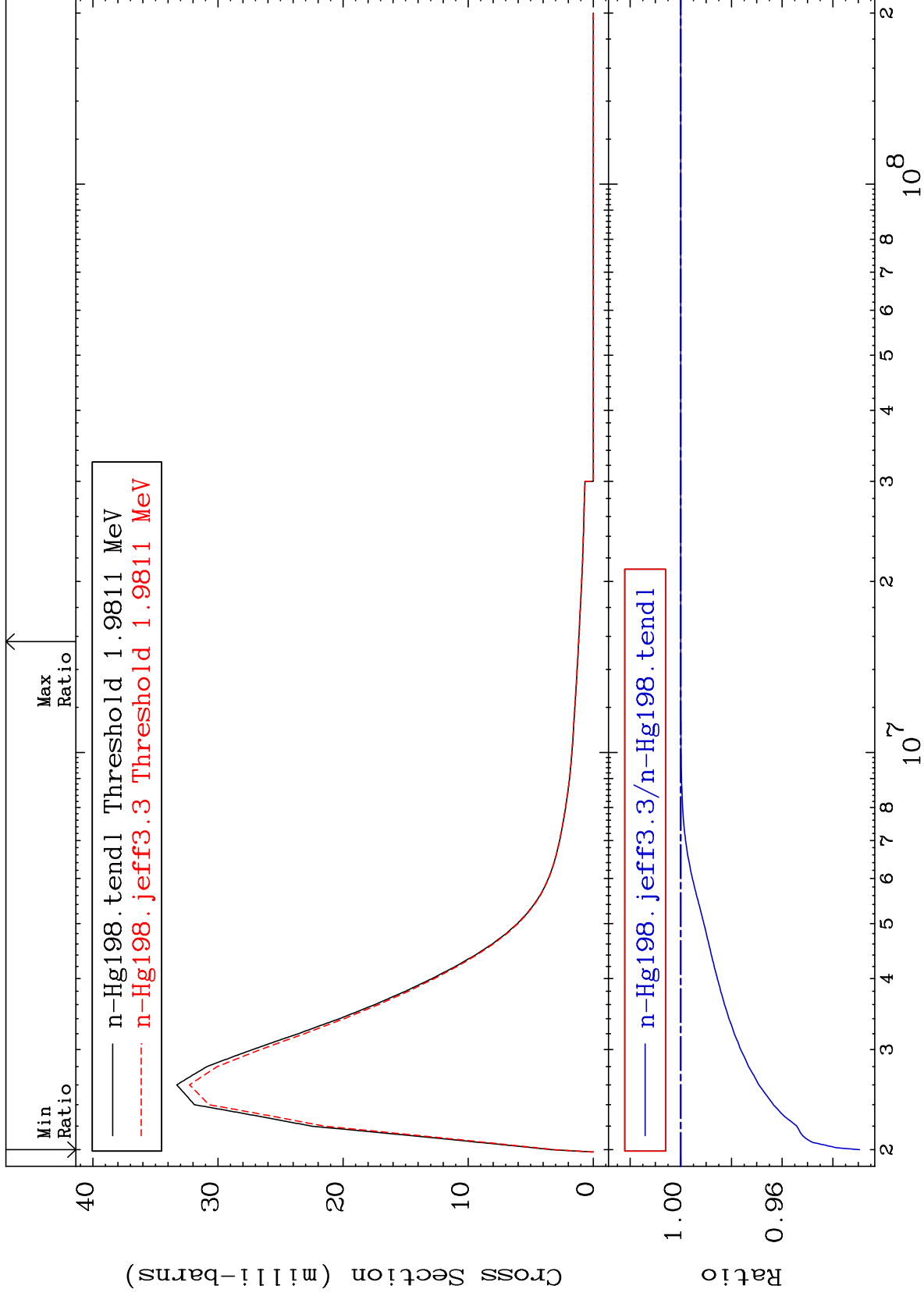
80-Hg-198  
-4.788 To 0.000 %



MAT 8031

MT= 73 (n,n') Level  
Cross Section

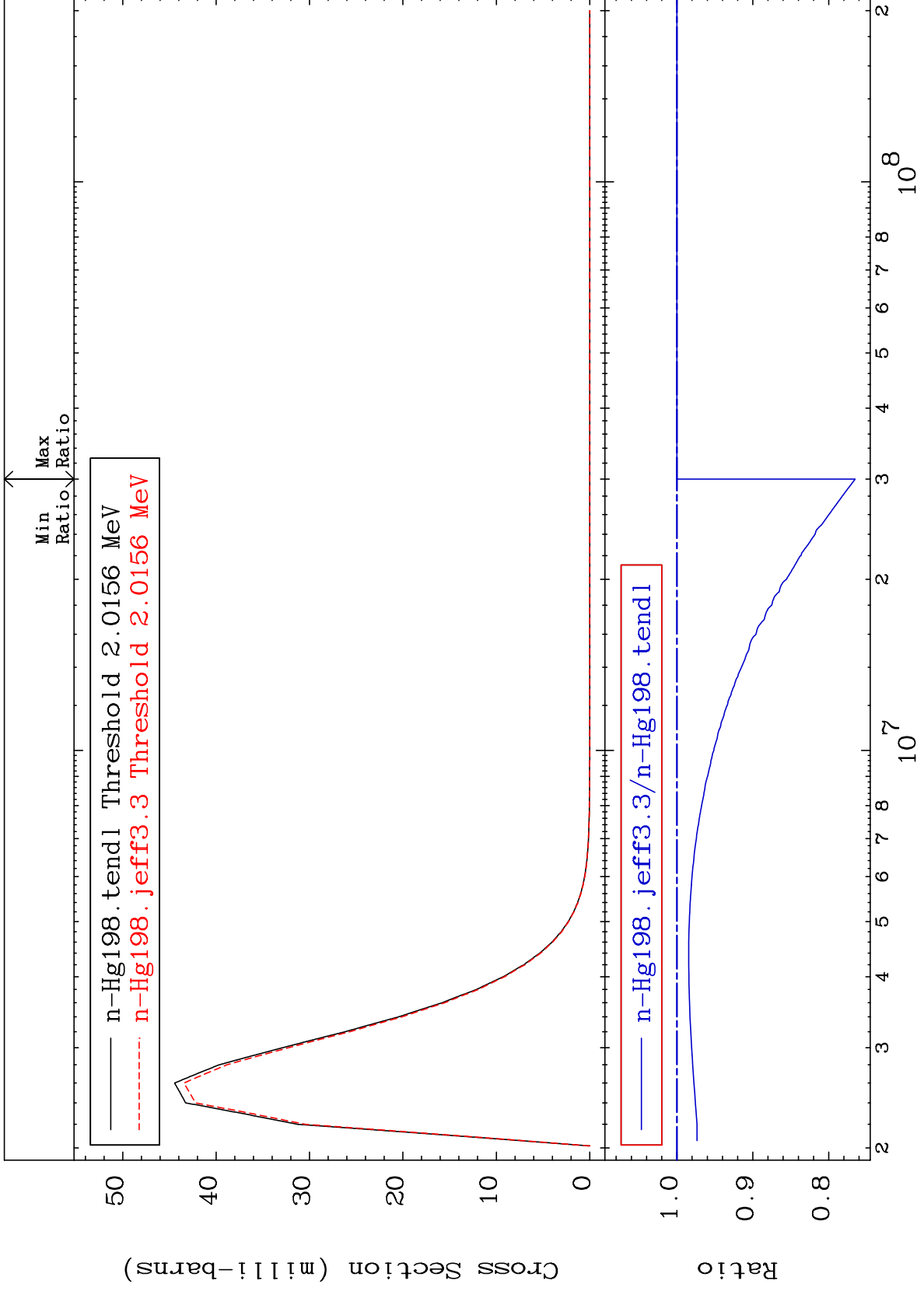
80-Hg-198  
-7.053 To 0.000 %



MAT 8031

MT= 74 (n,n') Level  
Cross Section

80-Hg-198  
-23.47 To 0.000 %



43

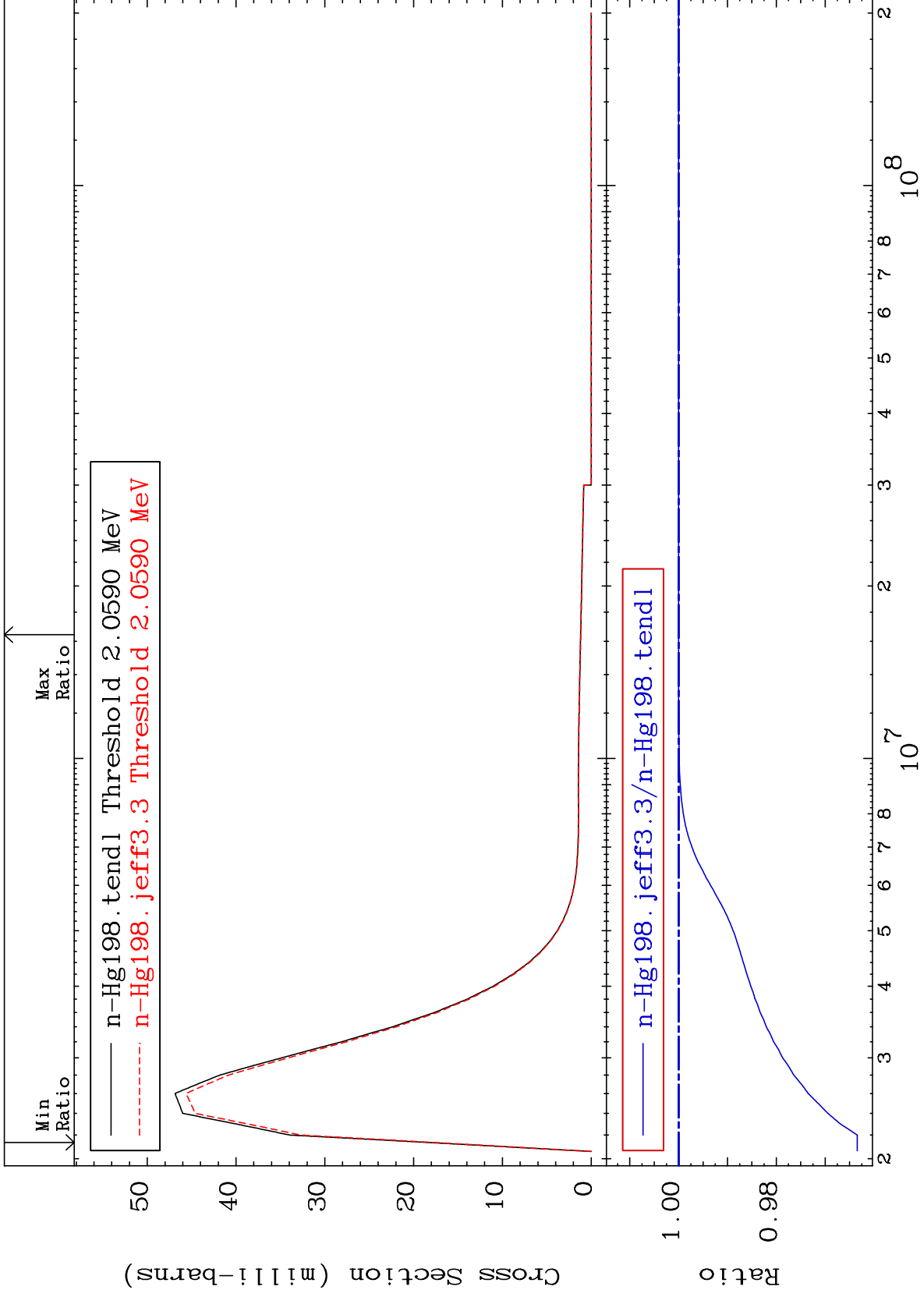
Incident Energy (eV)

80-Hg-198

MAT 8031

MT= 75 (n,n') Level  
Cross Section

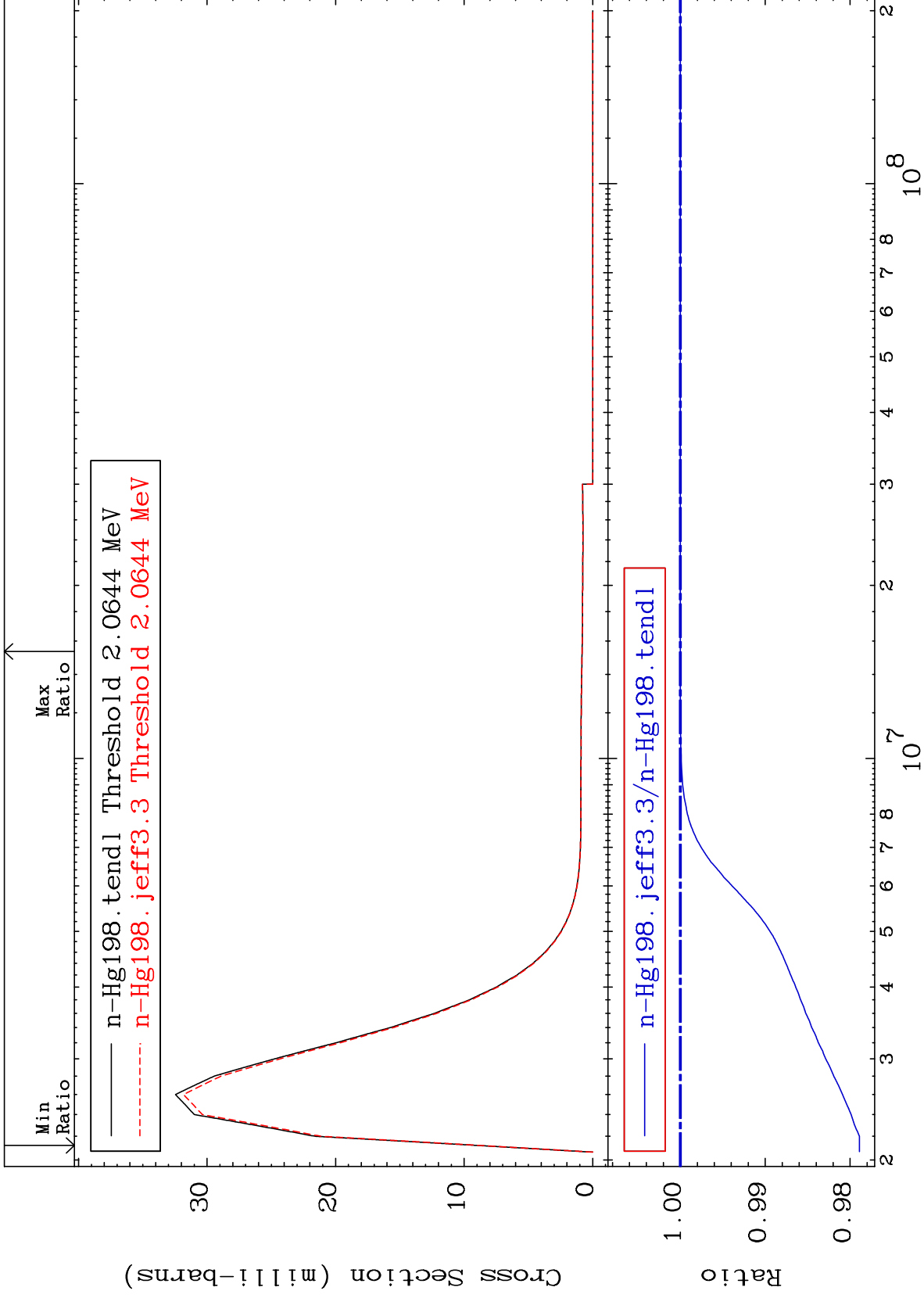
80-Hg-198  
-3.658 To 0.000 %



MAT 8031

MT= 76 (n,n') Level  
Cross Section

80-Hg-198  
-2.110 To 0.000 %



45

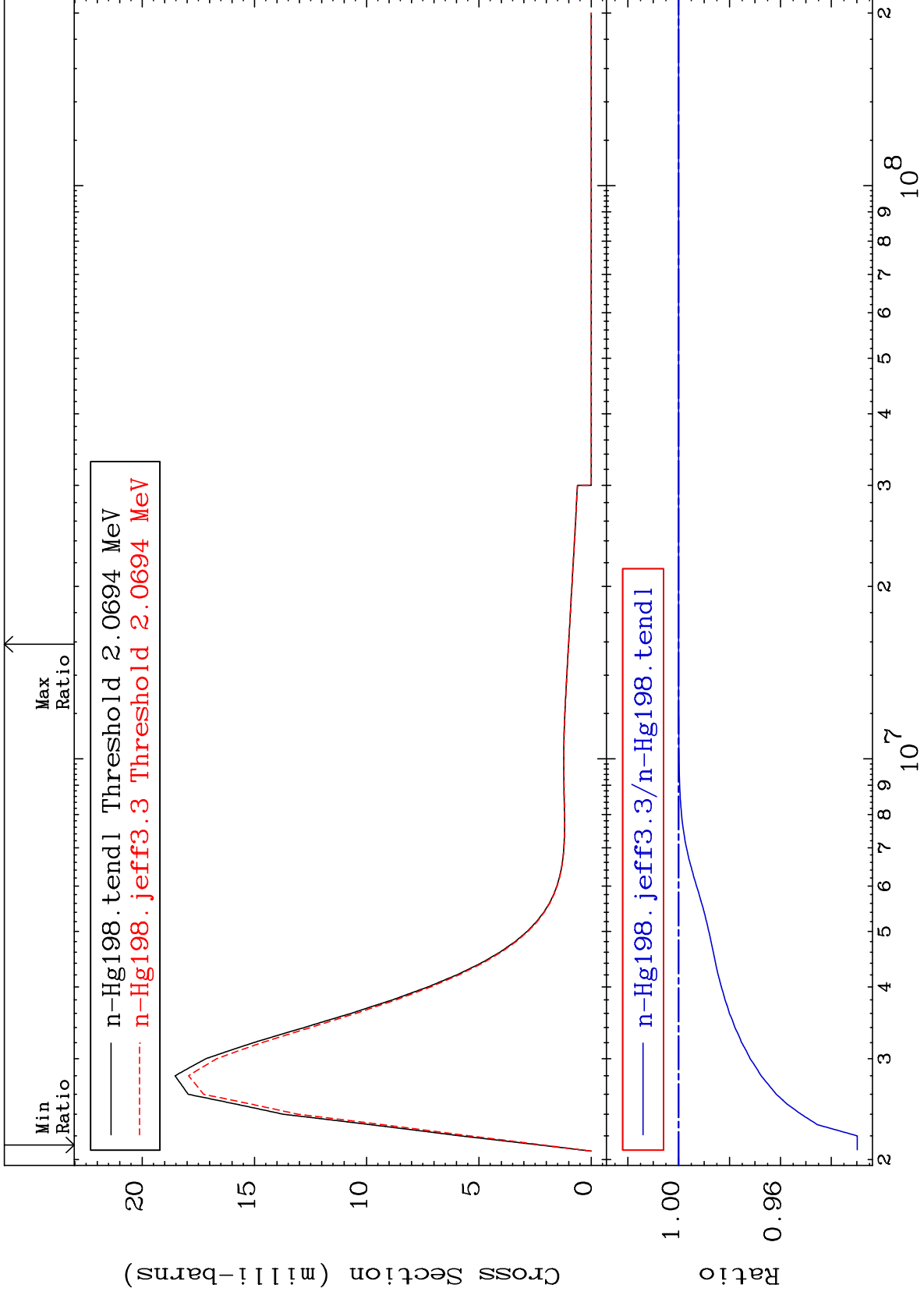
Incident Energy (eV)

80-Hg-198

MAT 8031

MT= 77 (n,n') Level  
Cross Section

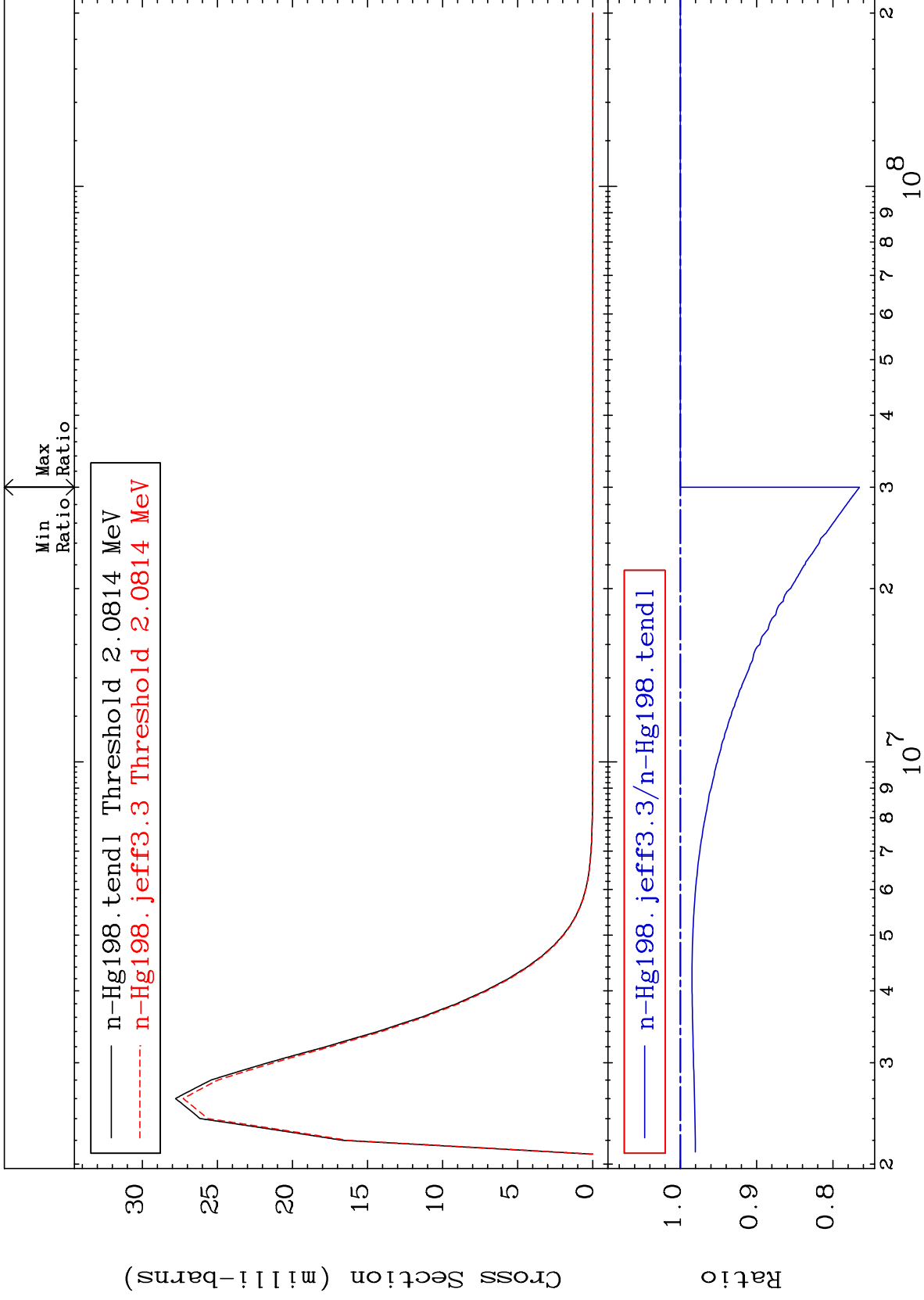
80-Hg-198  
-7.020 To 0.000 %



MAT 8031

MT= 78 (n,n') Level  
Cross Section

80-Hg-198  
-23.47 To 0.000 %



47

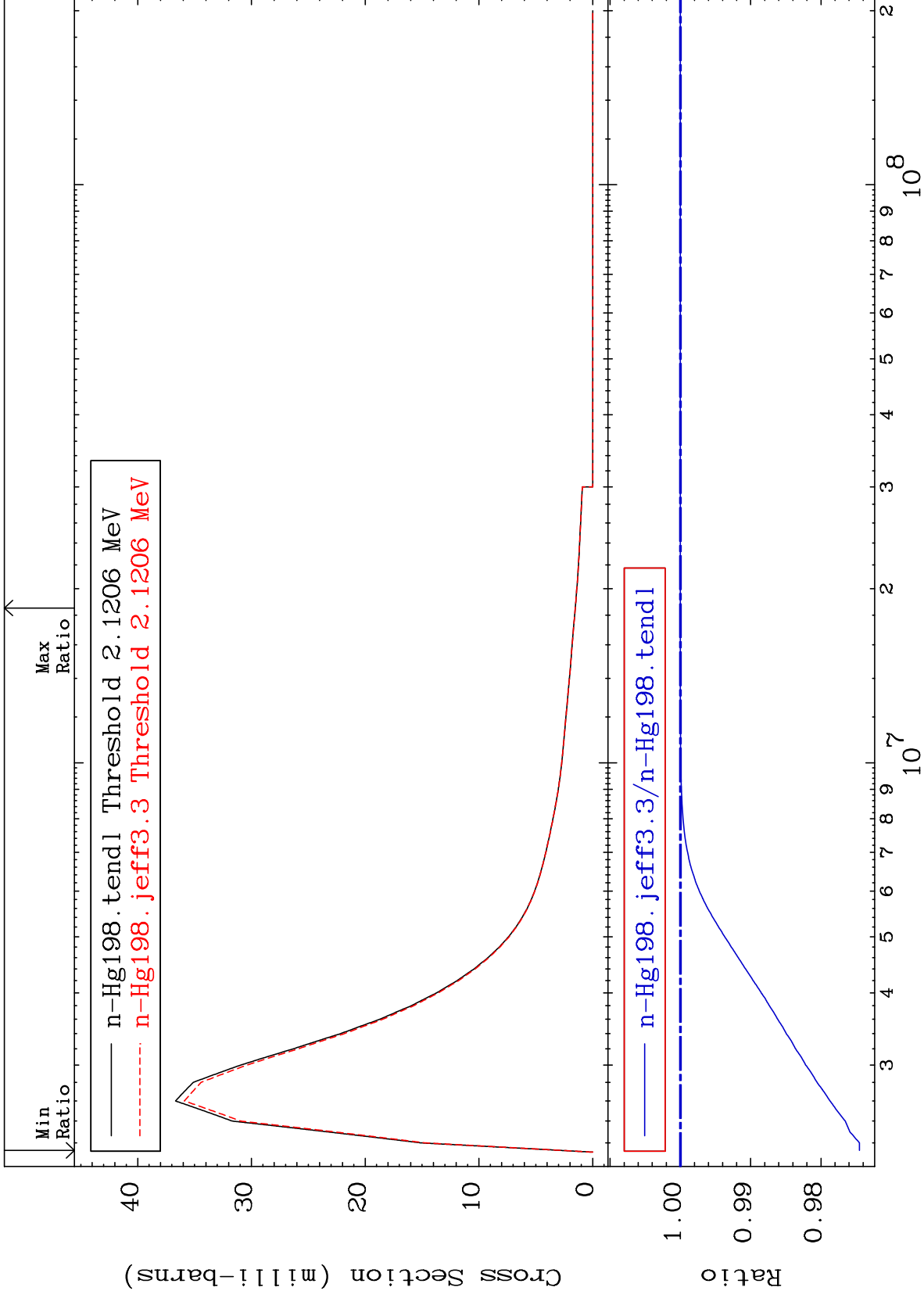
Incident Energy (eV)

80-Hg-198

MAT 8031

MT= 79 (n,n') Level  
Cross Section

80-Hg-198  
-2.547 To 0.000 %

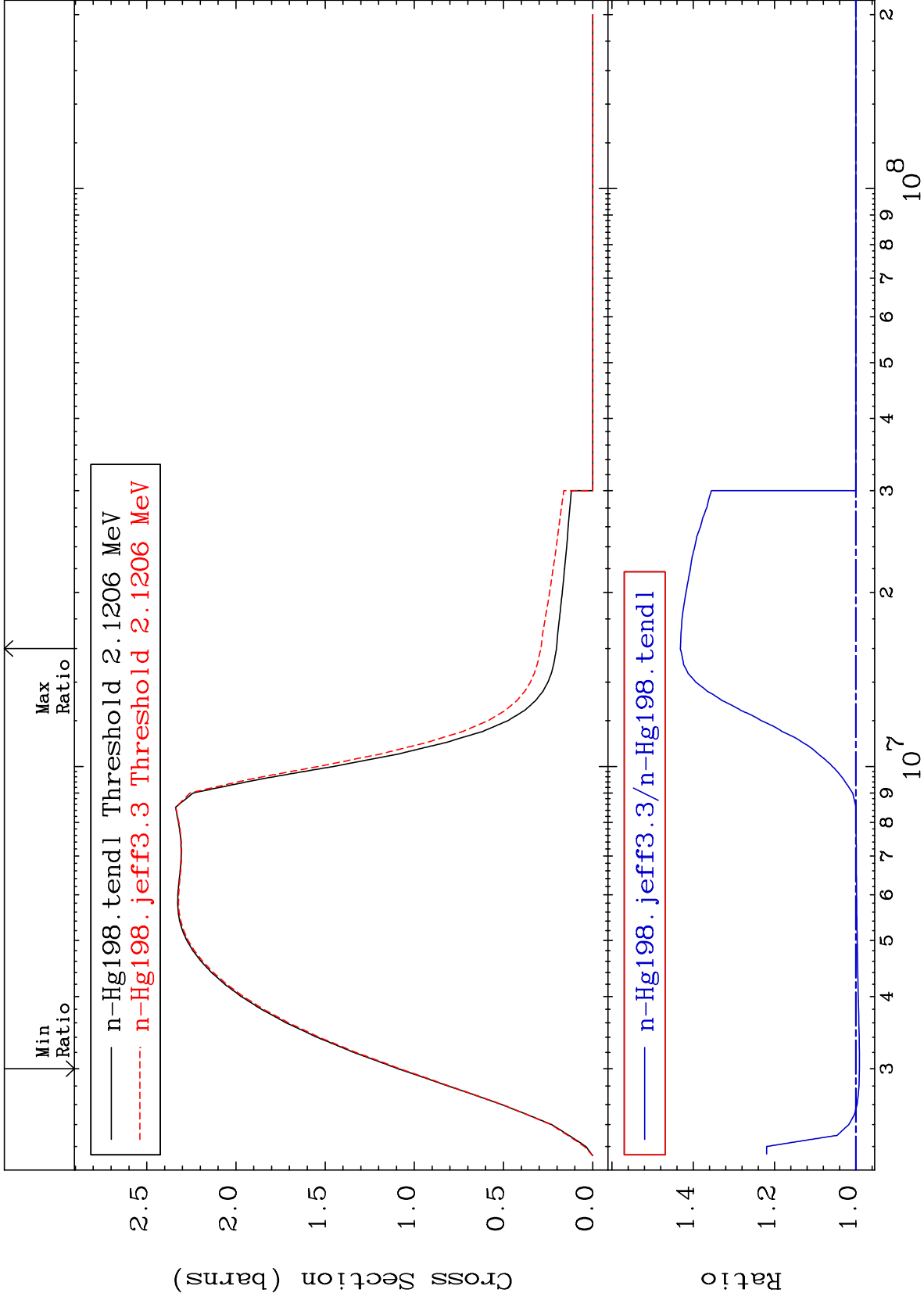




MAT 8031

(n, n') Continuum  
Cross Section

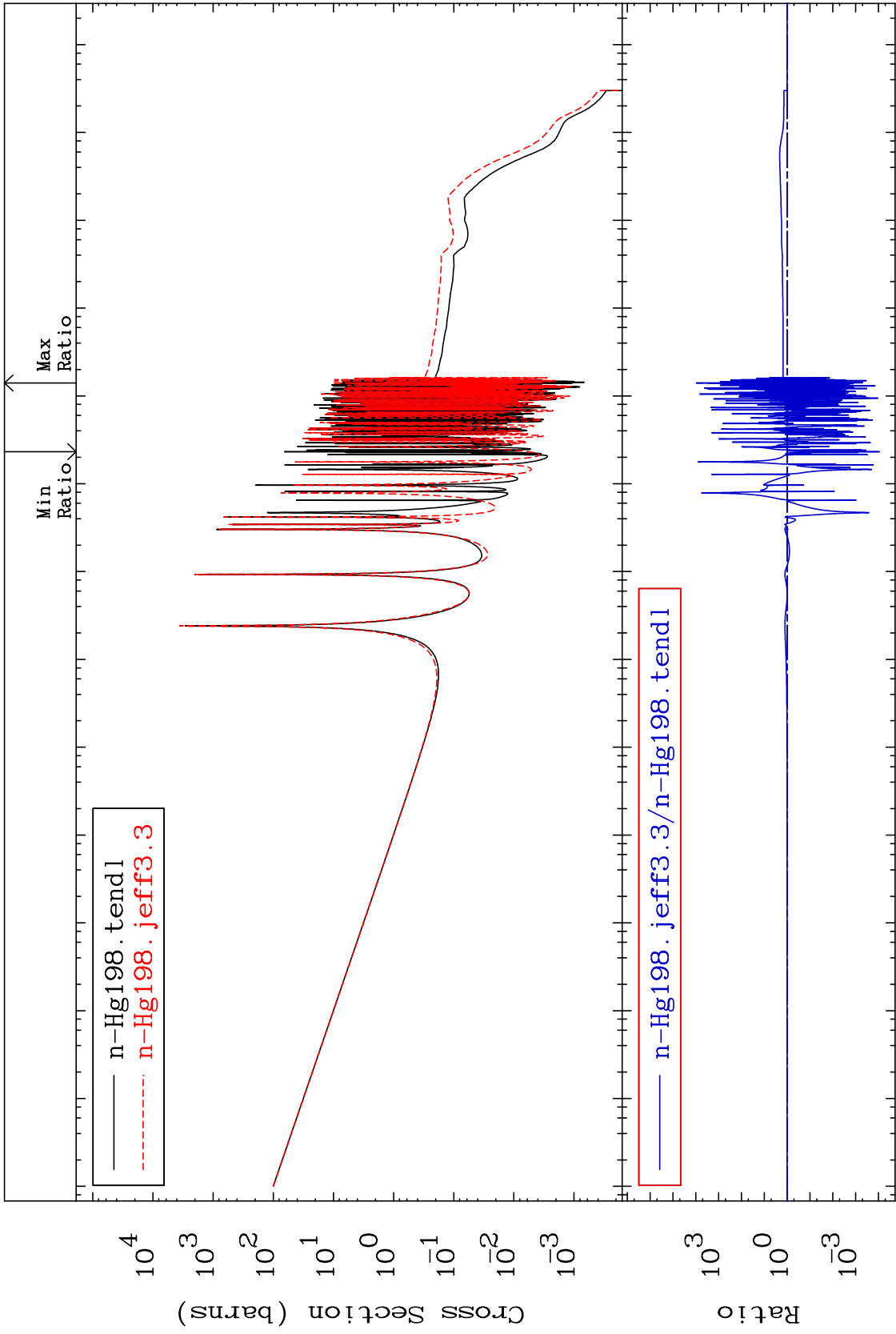
80-Hg-198  
-0.890 To 43.16 %



MAT 8031

(n,  $\gamma$ )  
Cross Section

80-Hg-198  
-99.99 To 9999. %



50

Incident Energy (eV)

80-Hg-198

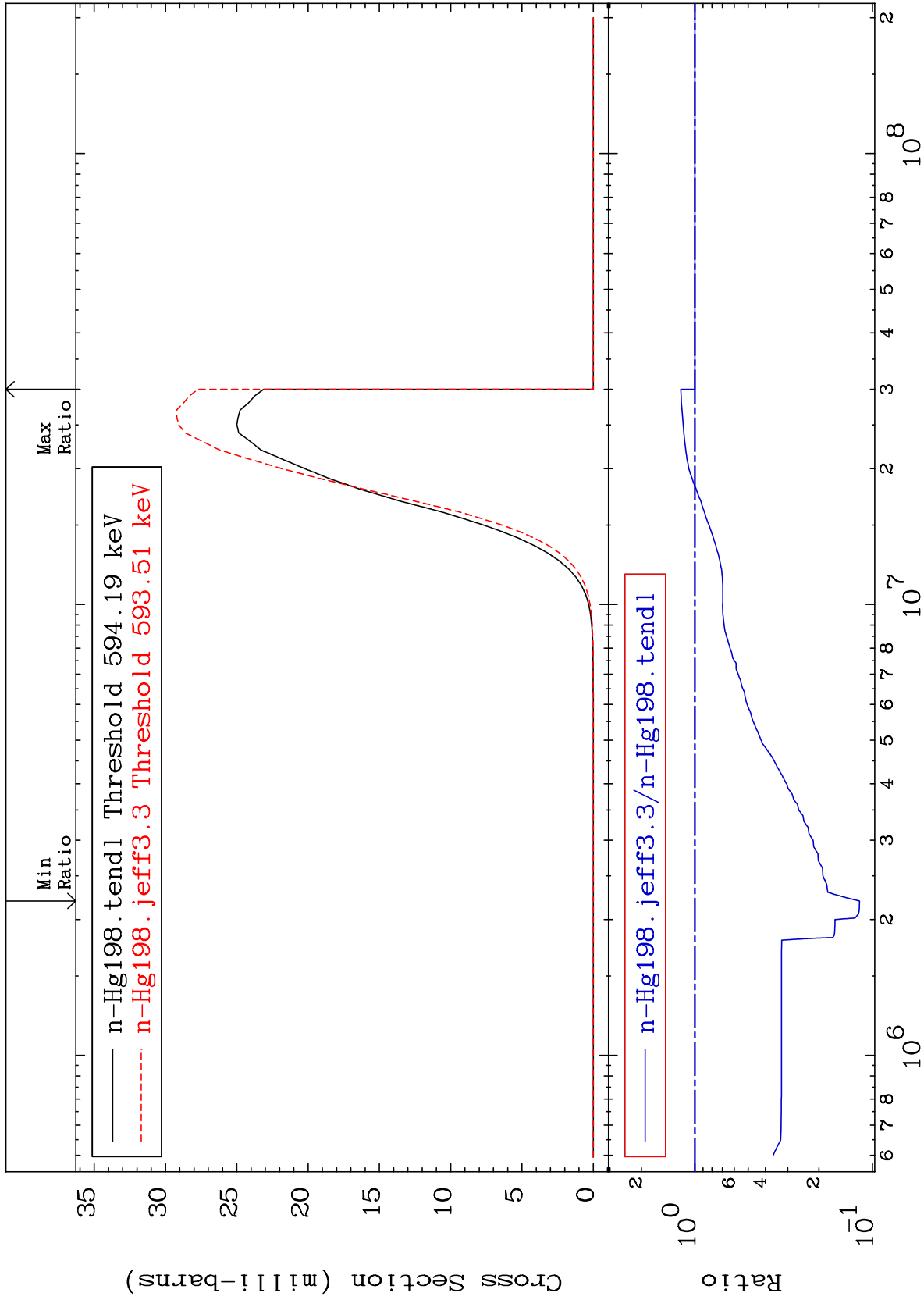
MAT 8031

(n,p)

80-Hg-198

Cross Section

-88.18 To 19.92 %



51

Incident Energy (eV)

80-Hg-198

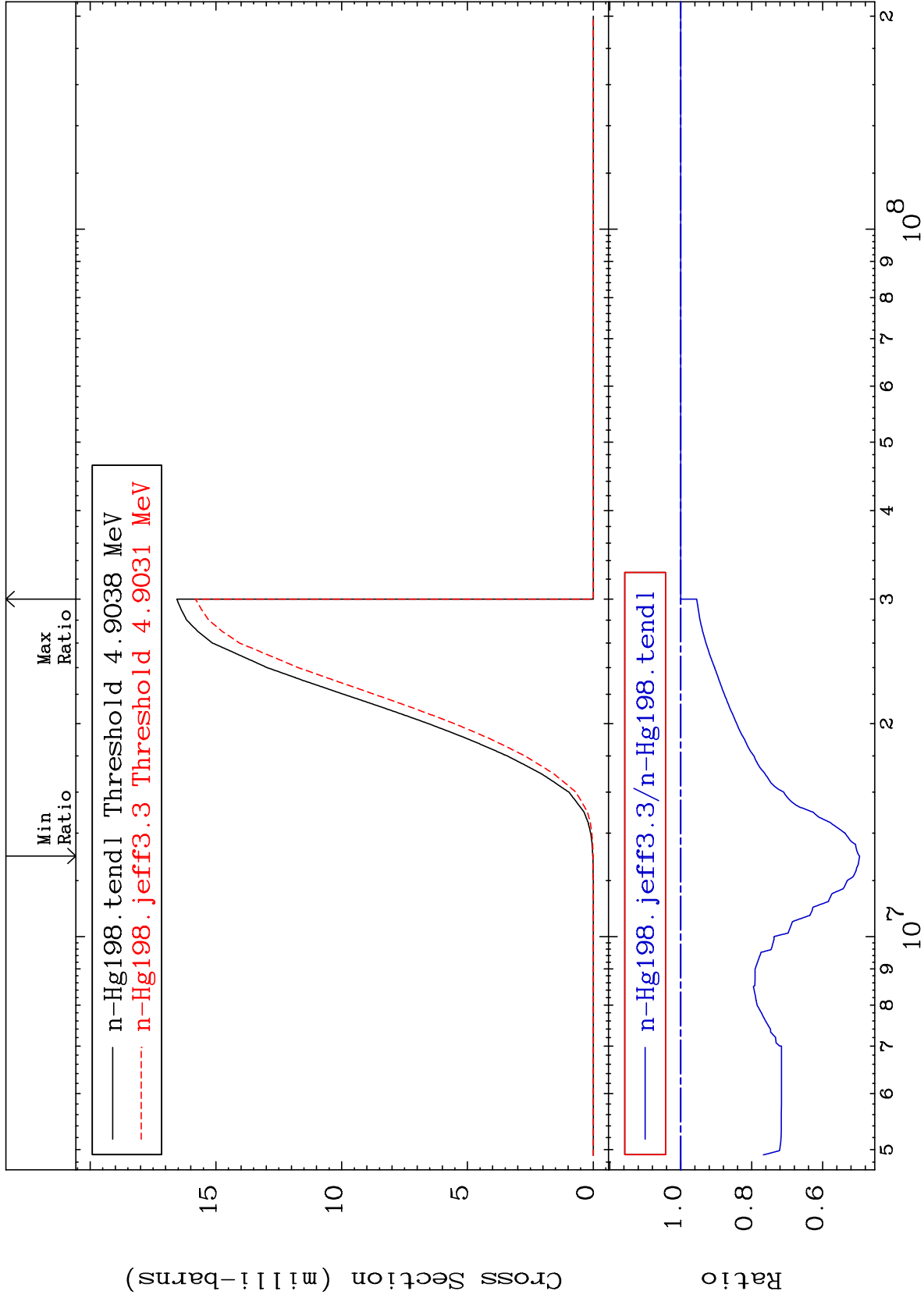
MAT 8031

(n, d)

80-Hg-198

Cross Section

-50.38 To 0.000 %



52

Incident Energy (eV)

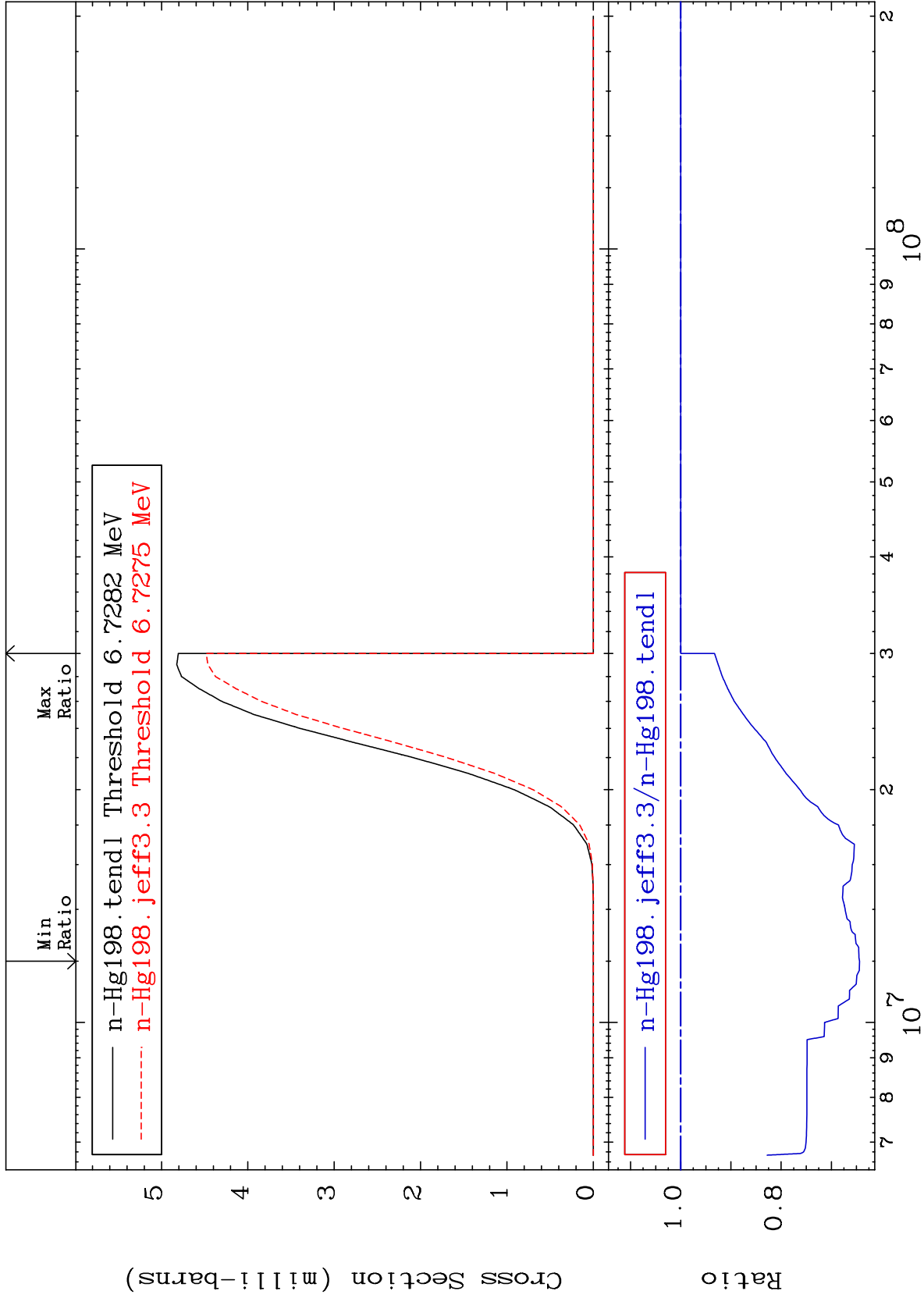
80-Hg-198

MAT 8031

80-Hg-198

-35.62 To 0.000 %

(n, t)  
Cross Section



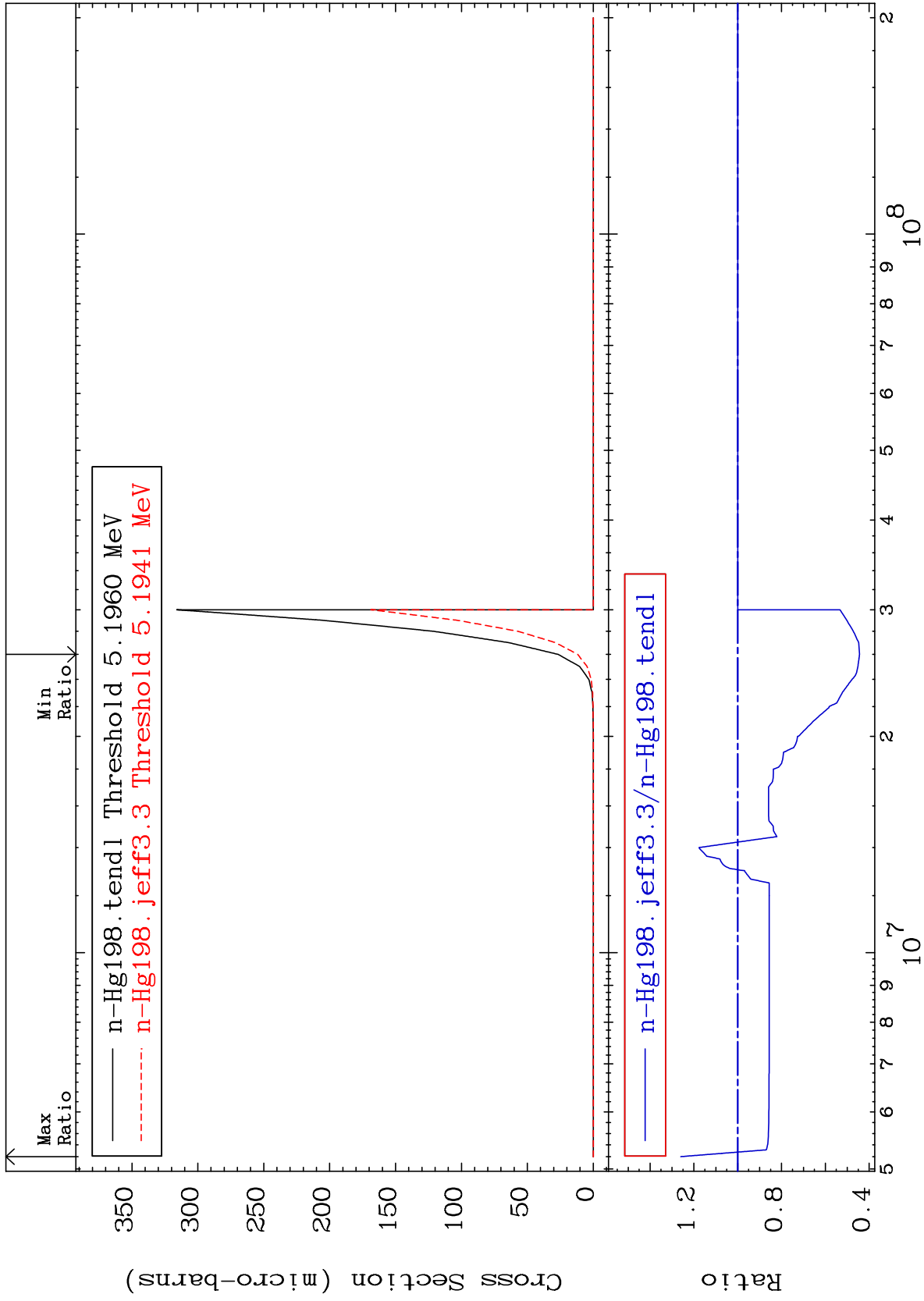
MAT 8031

(n, He-3)

80-Hg-198

Cross Section

-55.60 To 25.99 %



54

Incident Energy (eV)

80-Hg-198

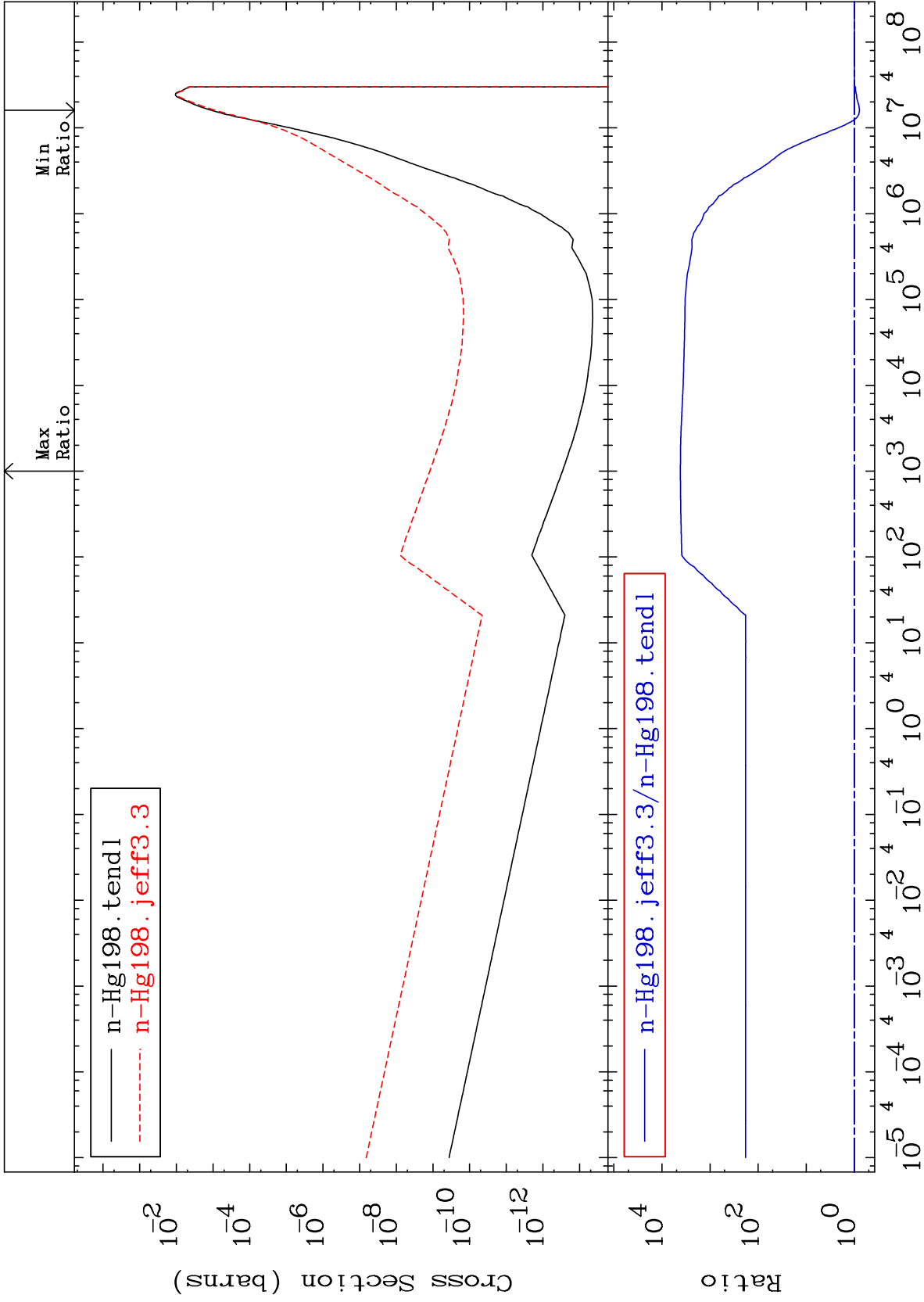
MAT 8031

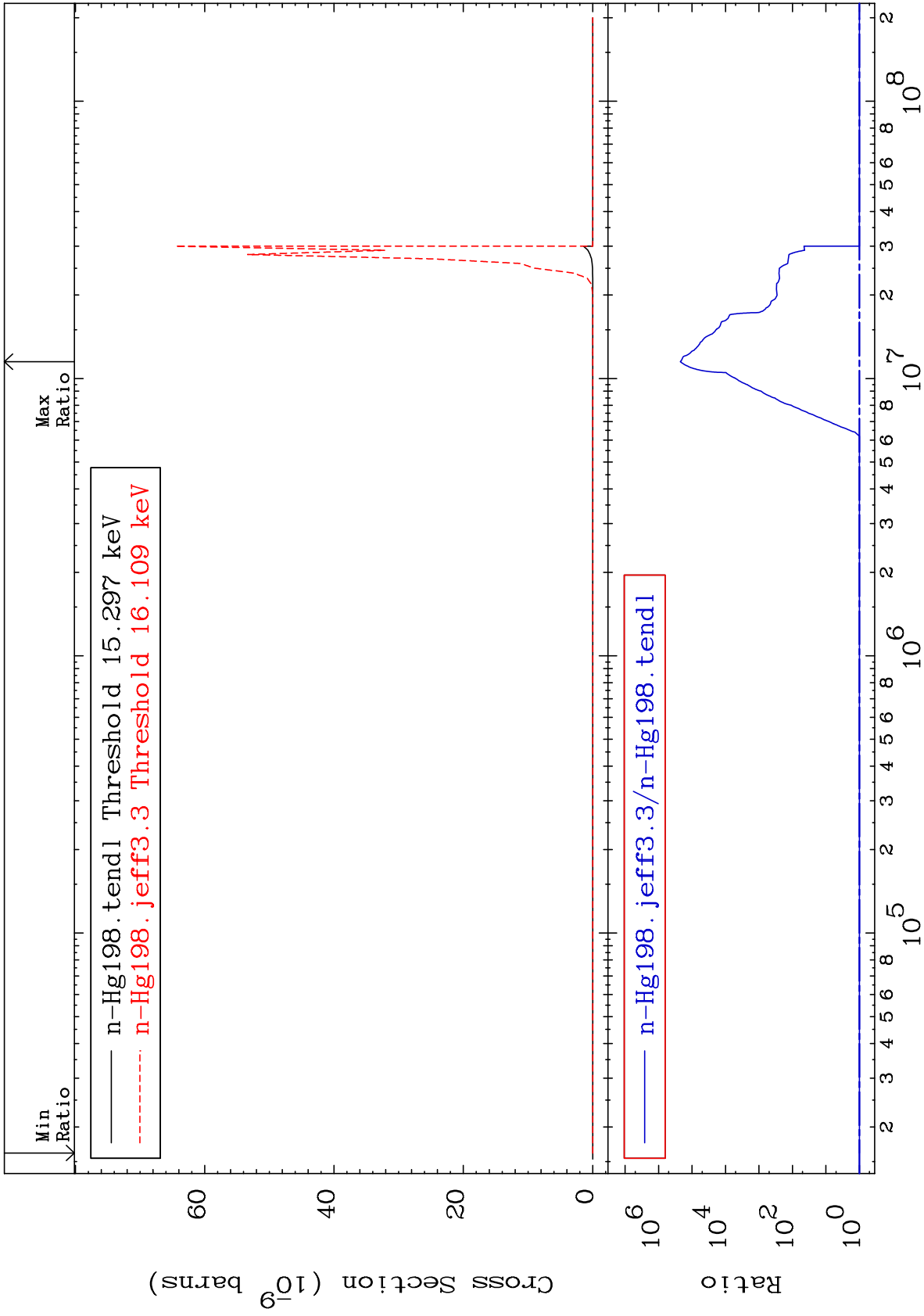
(n,  $\alpha$ )

80-Hg-198

Cross Section

-21.72 To 9999. %







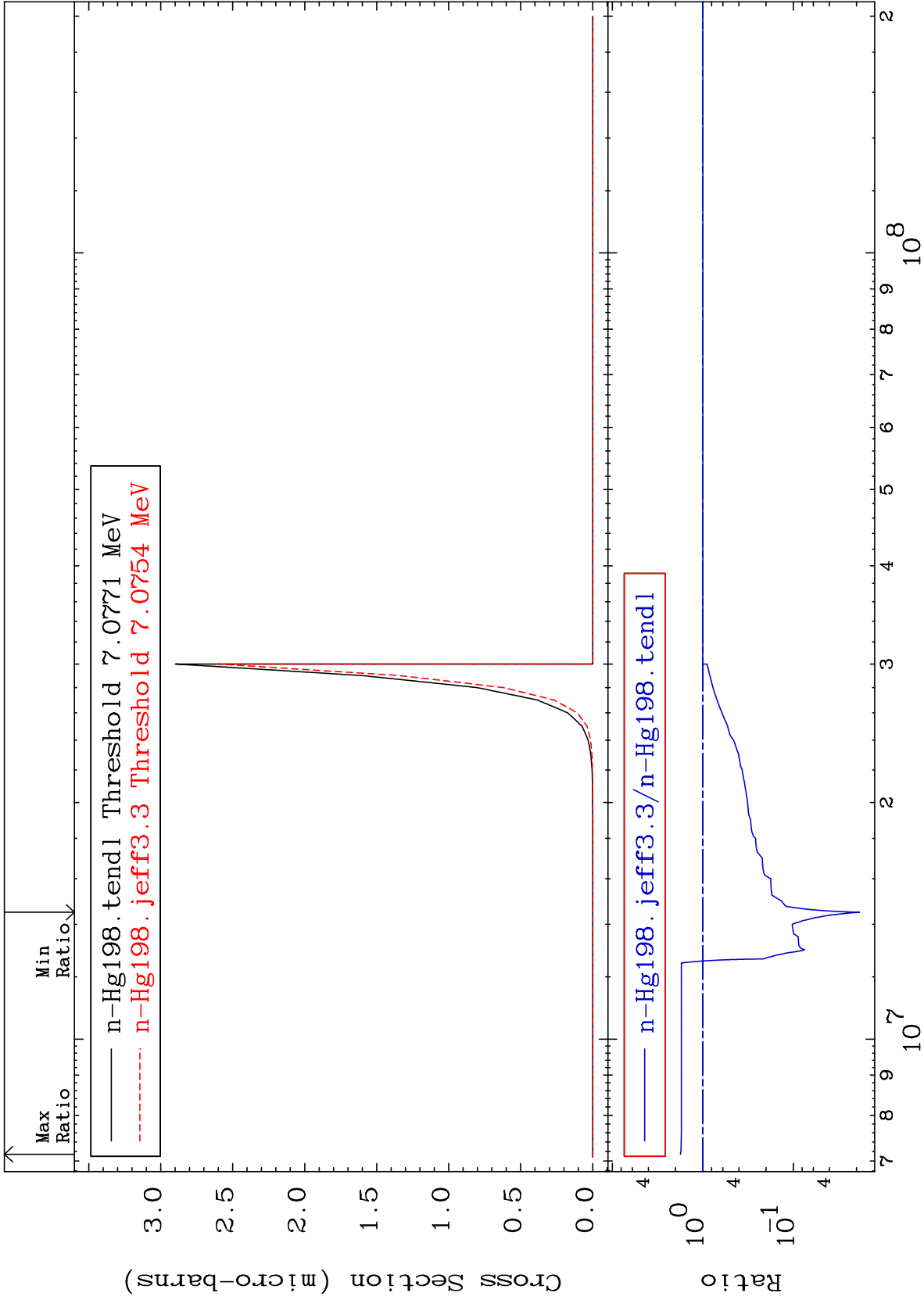
MAT 8031

(n,2p)

80-Hg-198

Cross Section

-98.14 To 77.23 %

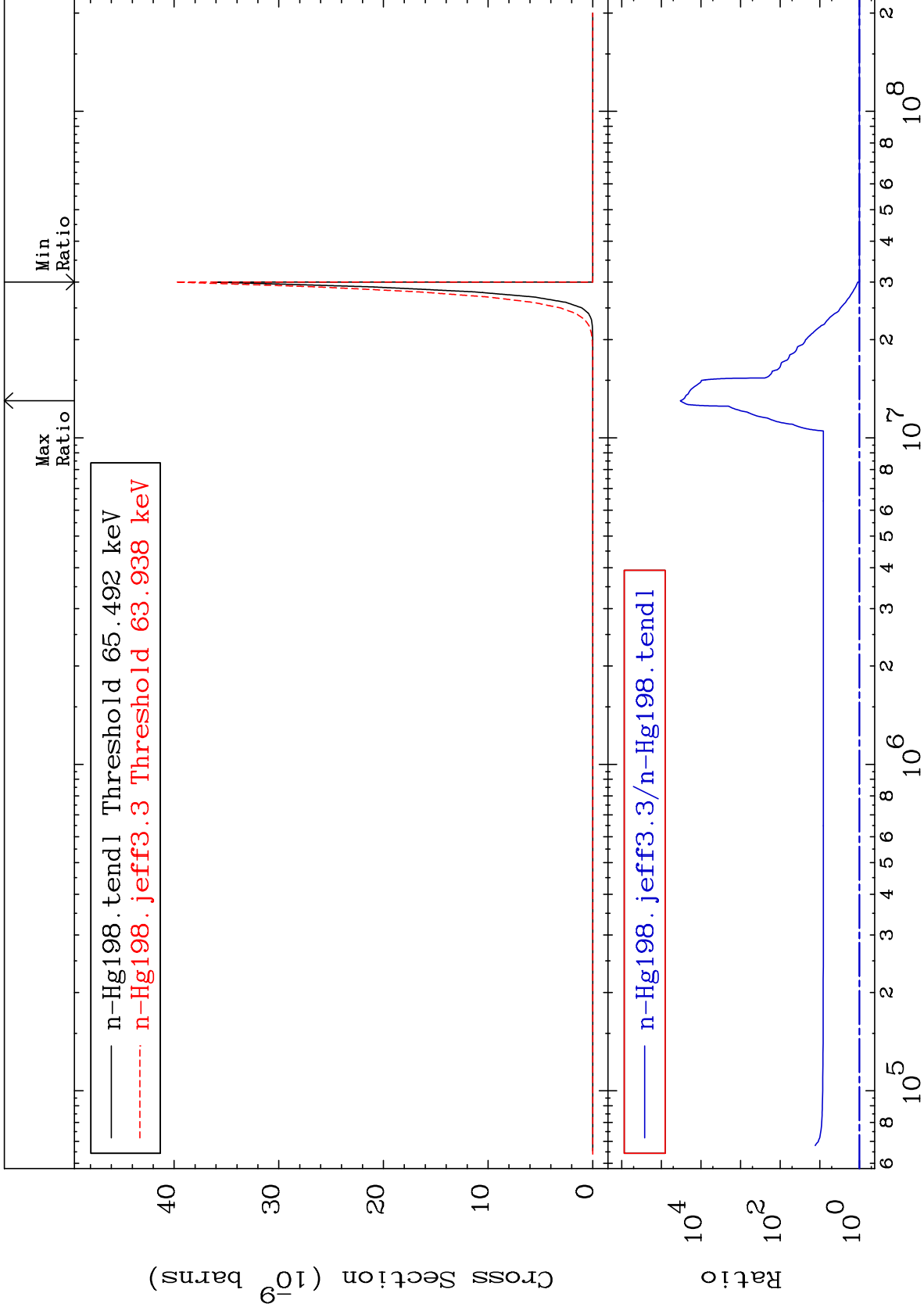


MAT 8031

(n, p)  $\alpha$

80-Hg-198  
To 9999. %

Cross Section



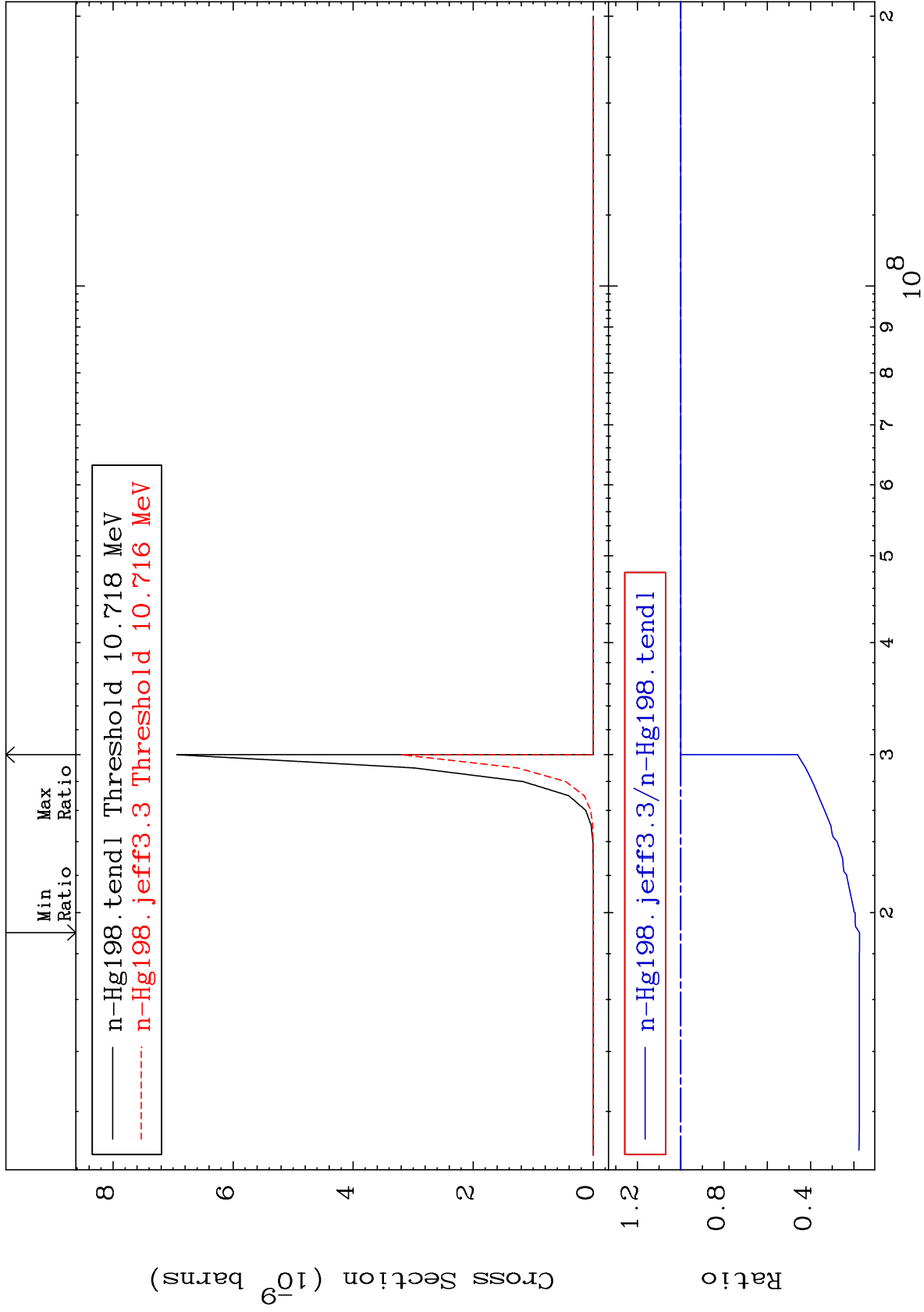
MAT 8031

(n, p) d

80-Hg-198

Cross Section

-82.58 To 0.000 %



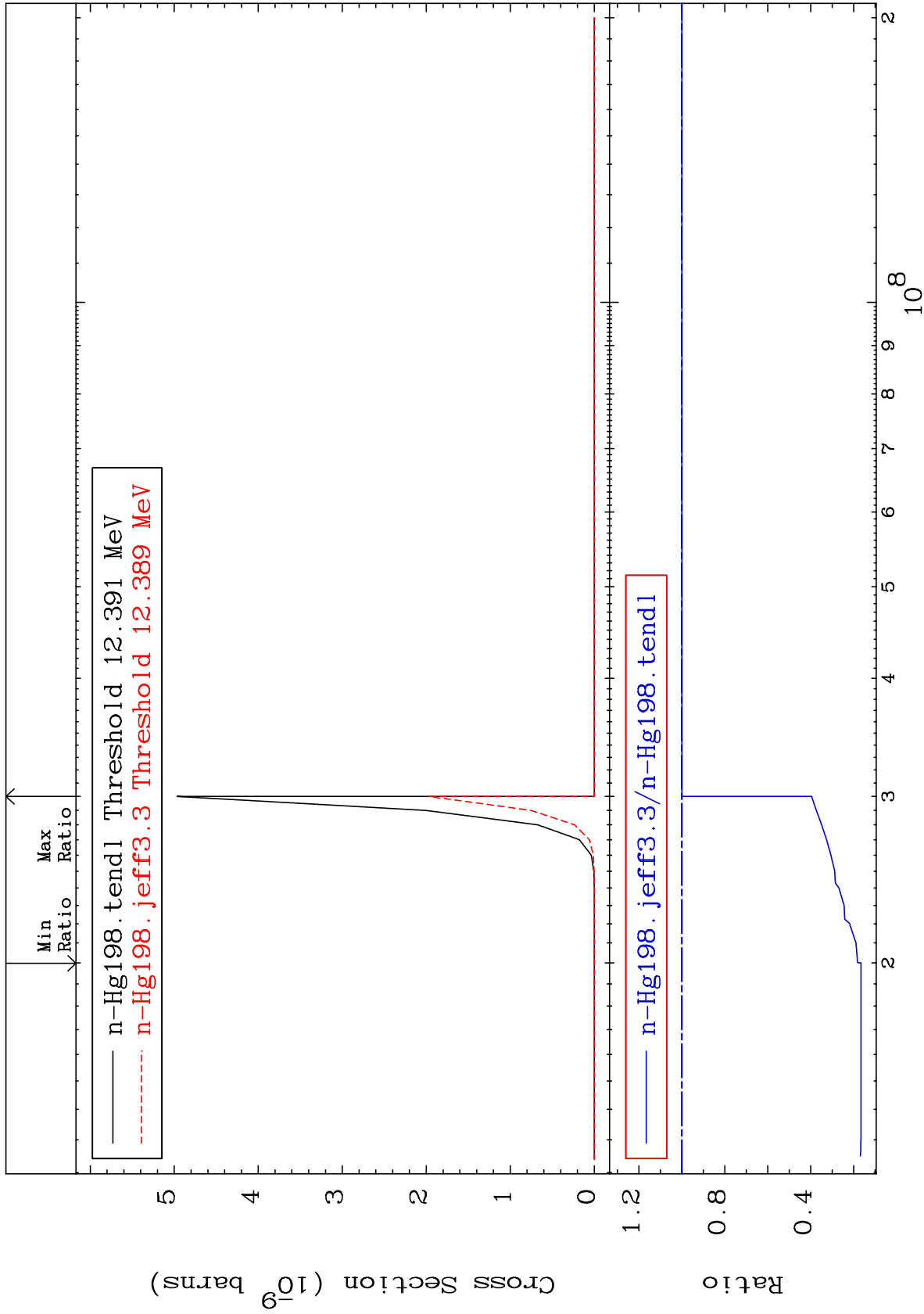
MAT 8031

(n, p) t

80-Hg-198

Cross Section

-83.37 To 0.000 %



60

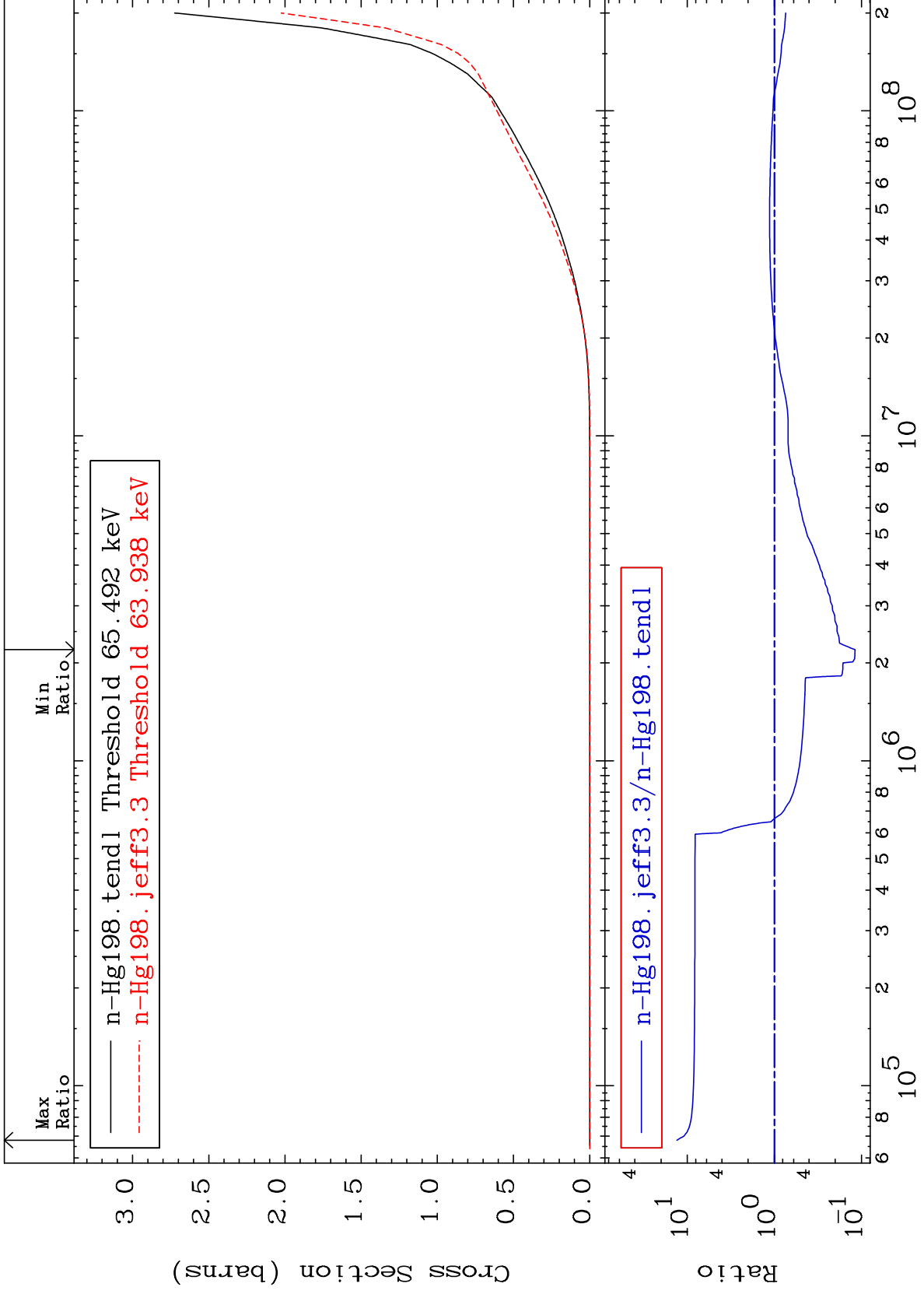
Incident Energy (eV)

80-Hg-198

MAT 8031

Hydrogen Production  
Cross Section

80-Hg-198  
-88.18 To 1214. %



61

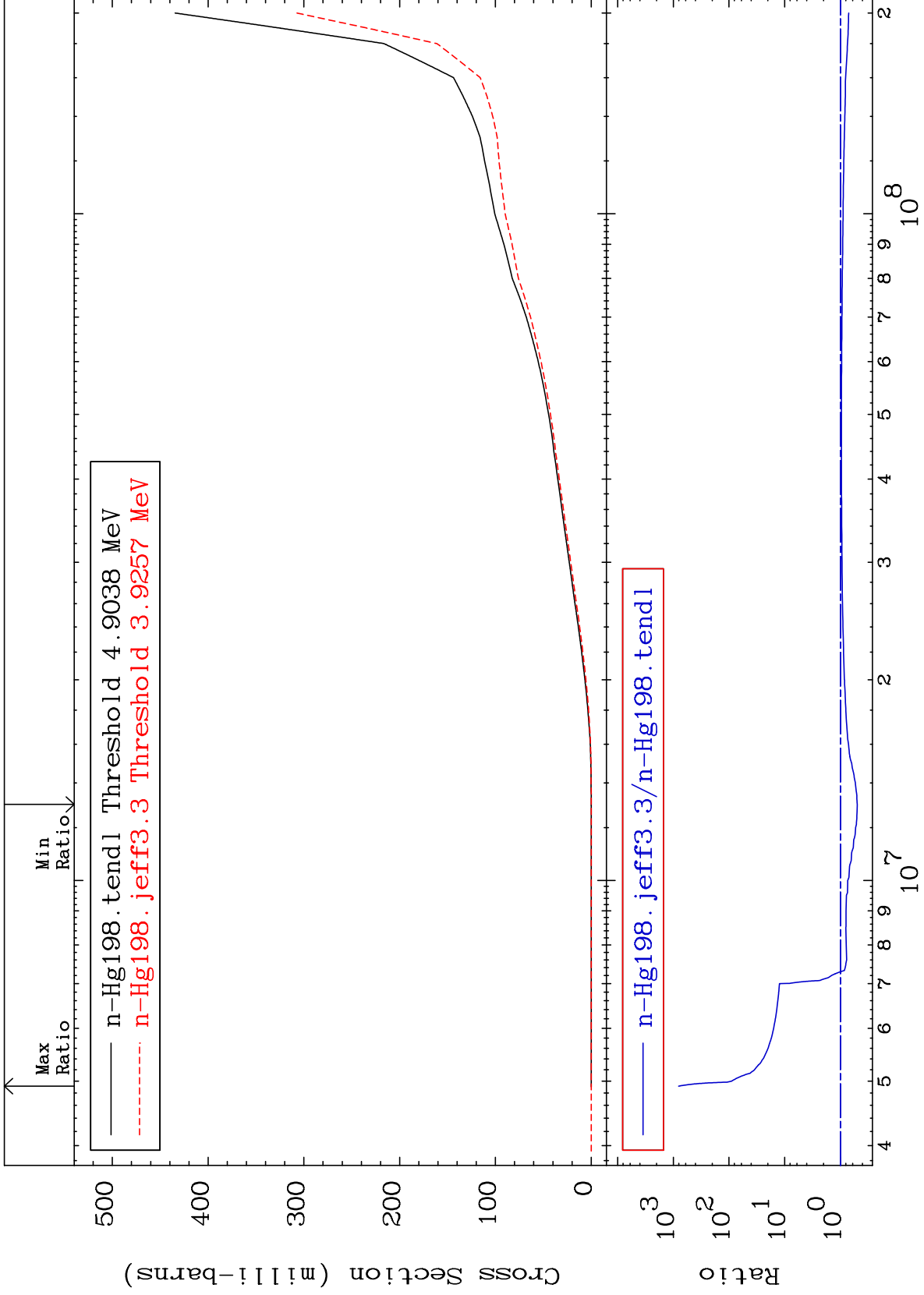
Incident Energy (eV)

80-Hg-198

MAT 8031

Deuterium Production  
Cross Section

80-Hg-198  
-50.38 To 9999. %



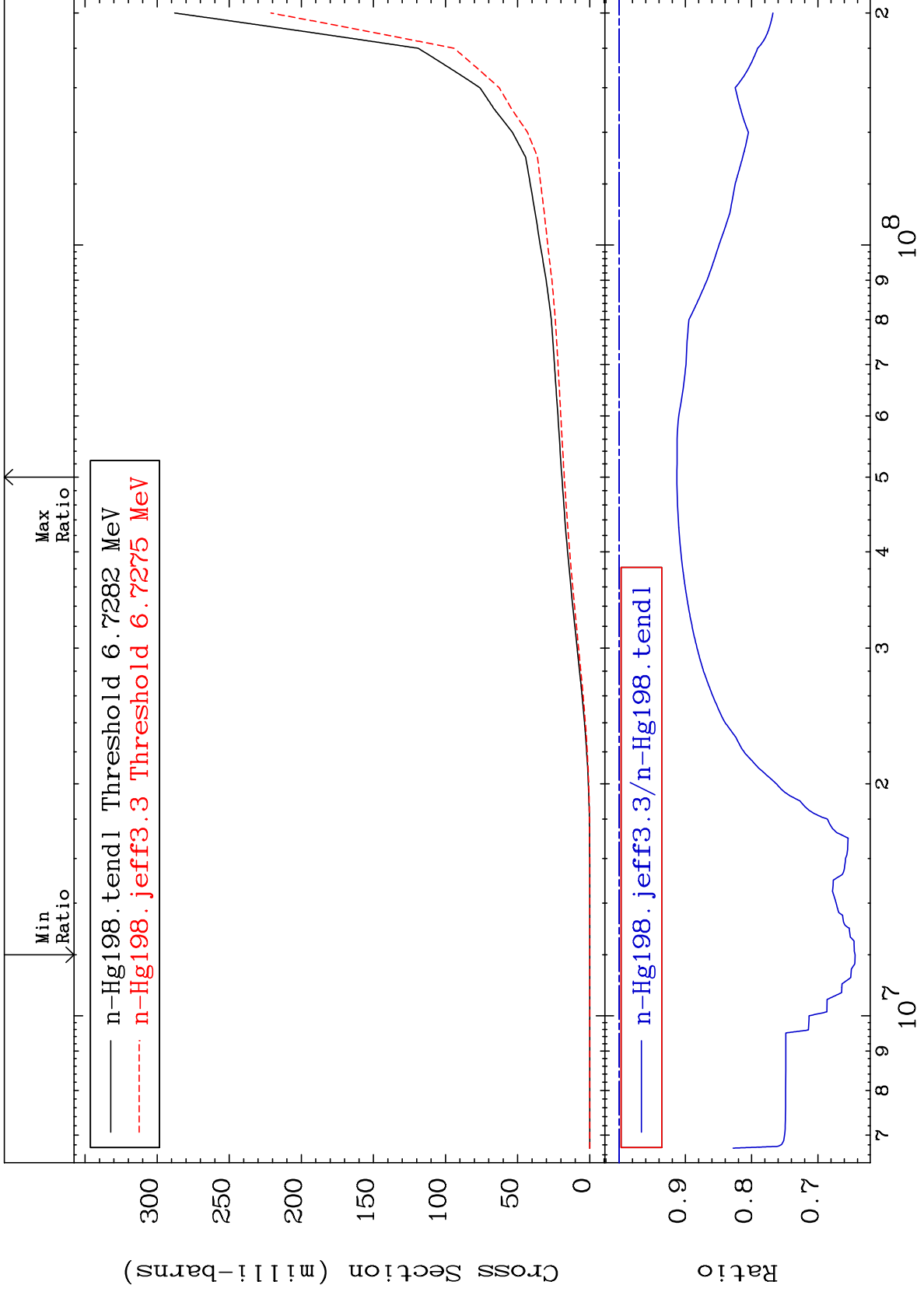
62

80-Hg-198

MAT 8031

Tritium Production  
Cross Section

80-Hg-198  
-35.62 To -8.712%



63

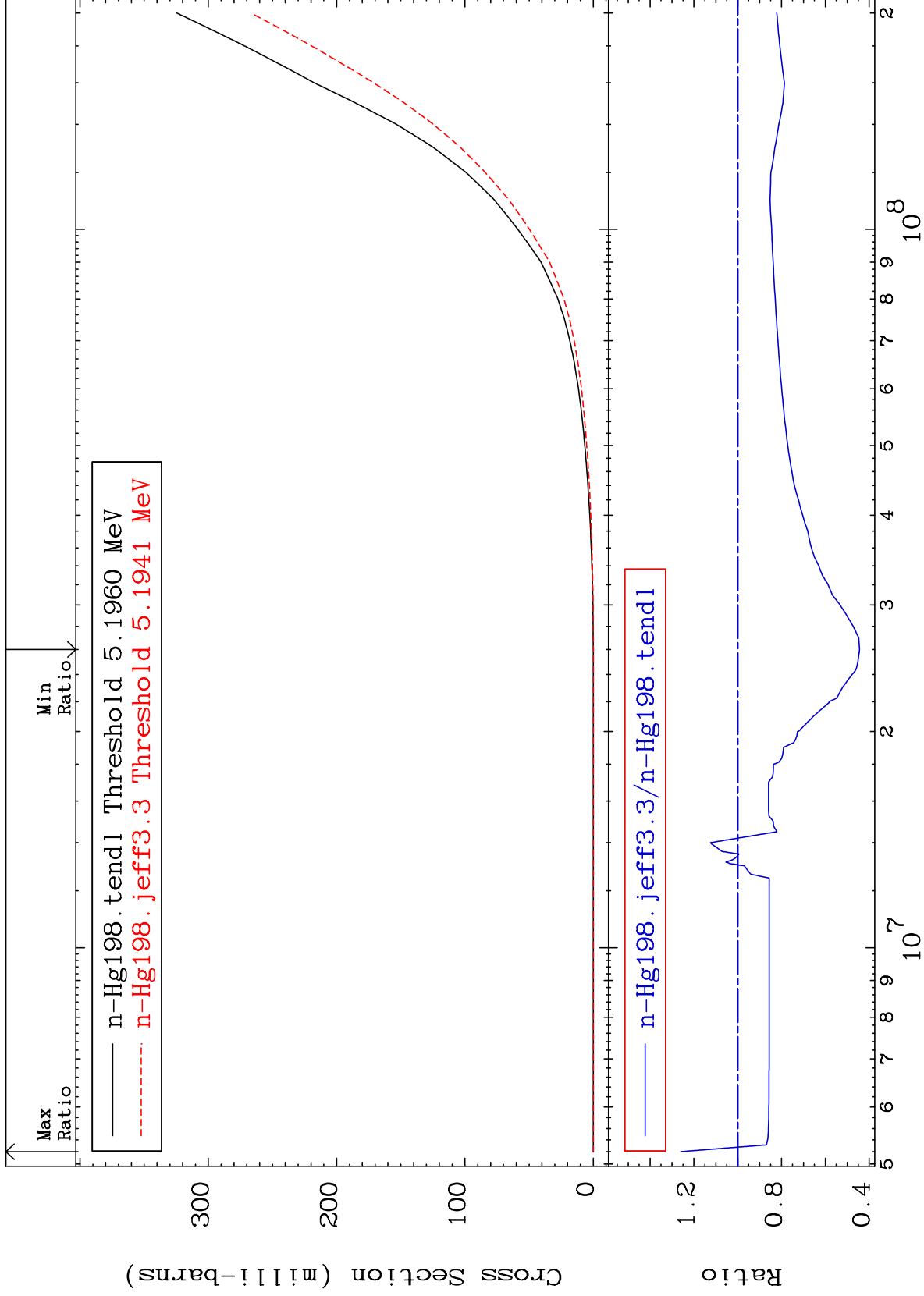
Incident Energy (eV)

80-Hg-198

MAT 8031

He-3 Production  
Cross Section

80-Hg-198  
-55.60 To 25.99 %



64

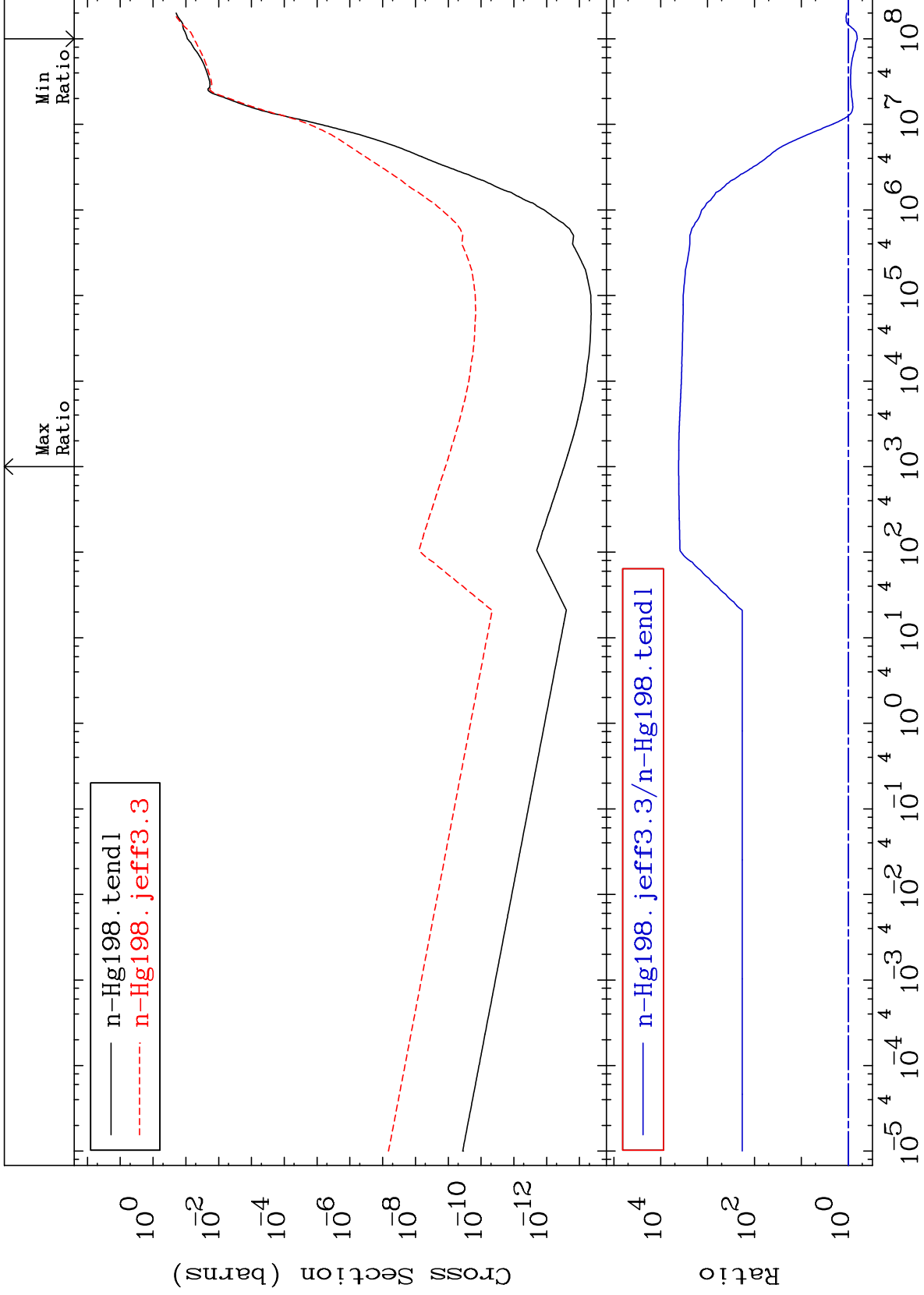
80-Hg-198



MAT 8031

He-4 Production  
Cross Section

80-Hg-198  
-35.88 To 9999. %



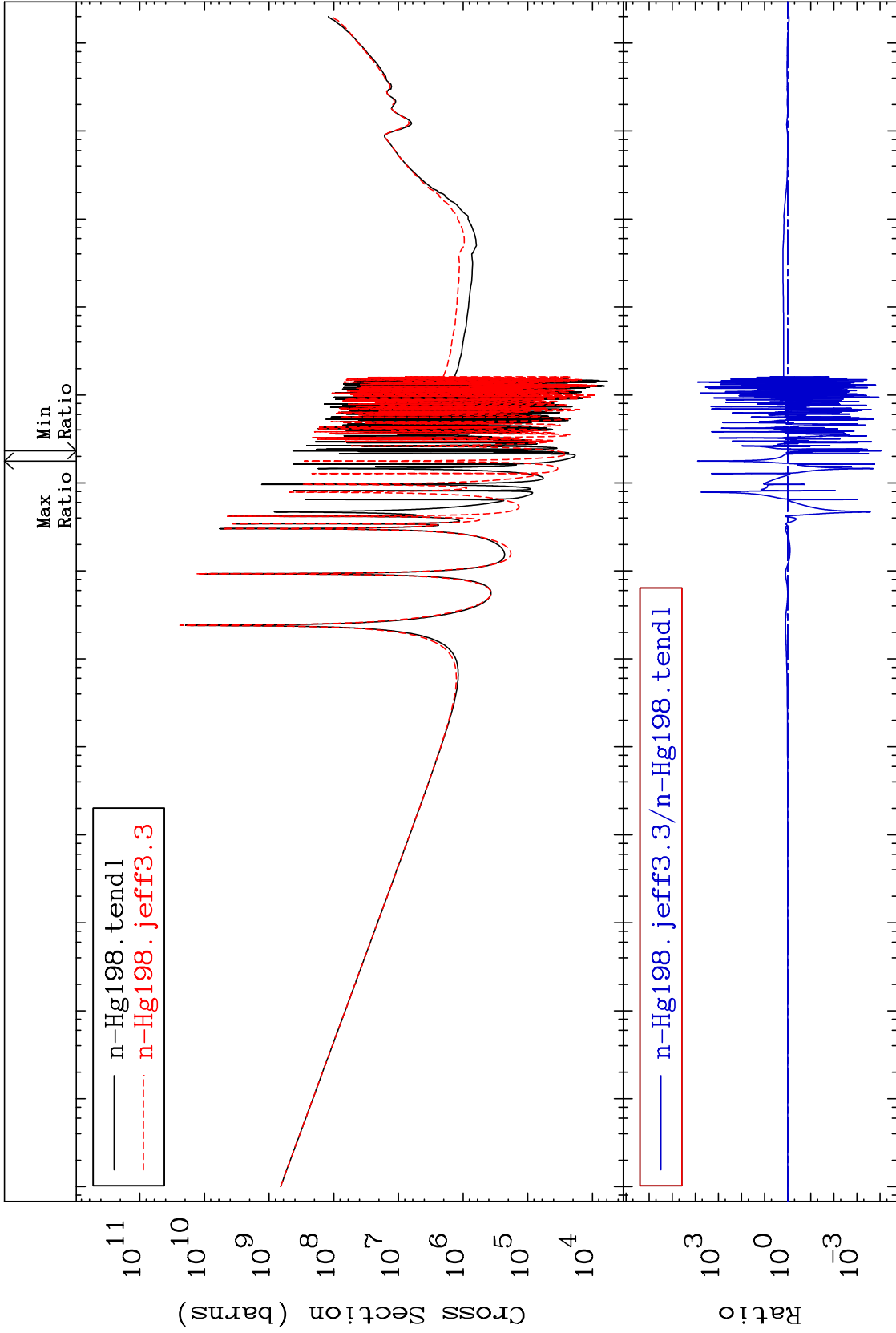
65

Incident Energy (eV)

80-Hg-198

Cross Section

-99.99 To 9999. %

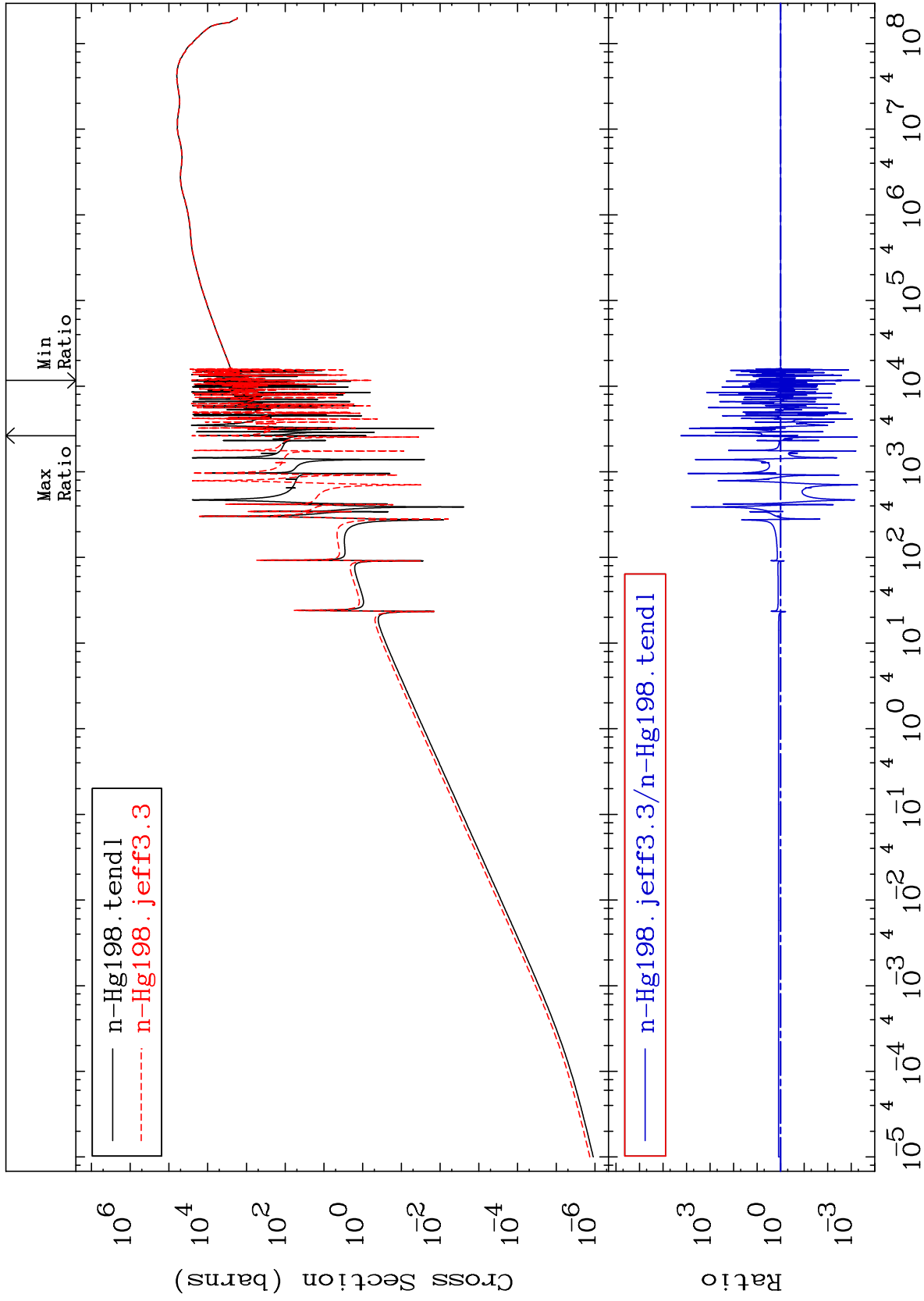


Incident Energy (eV)

MAT 8031

Kerma elastic  
Cross Section

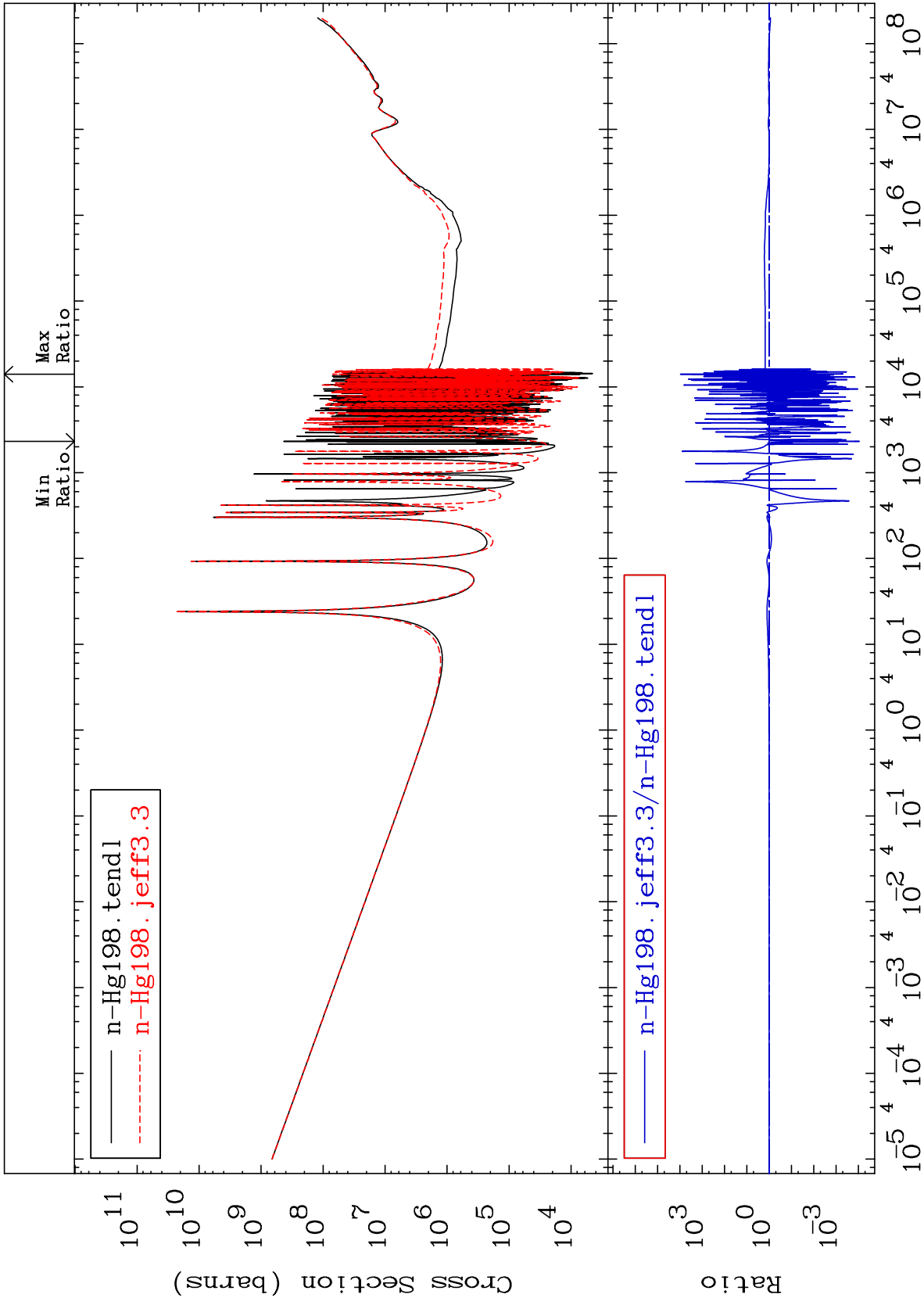
80-Hg-198  
-99.96 To 9999. %

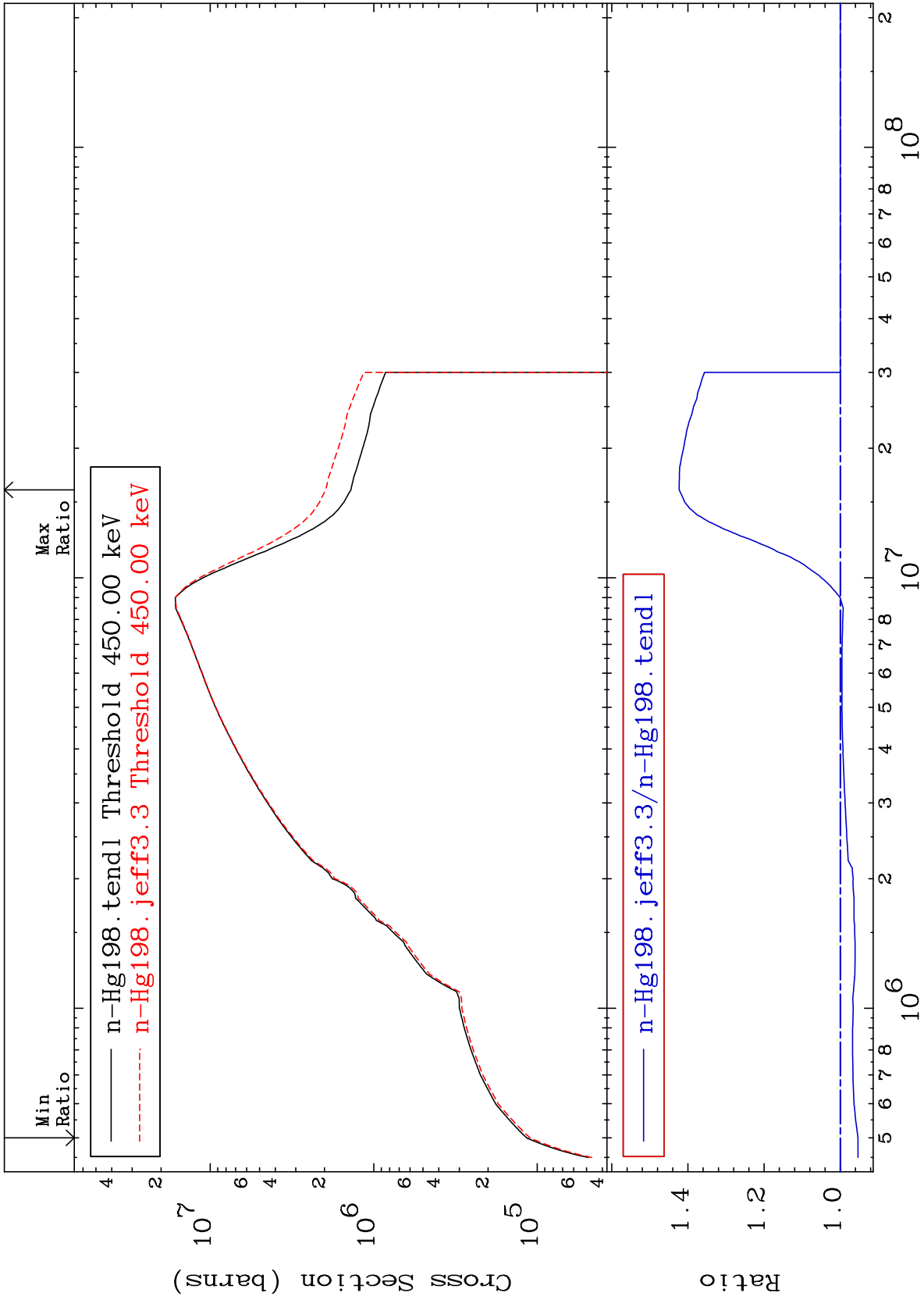


67

Incident Energy (eV)

80-Hg-198

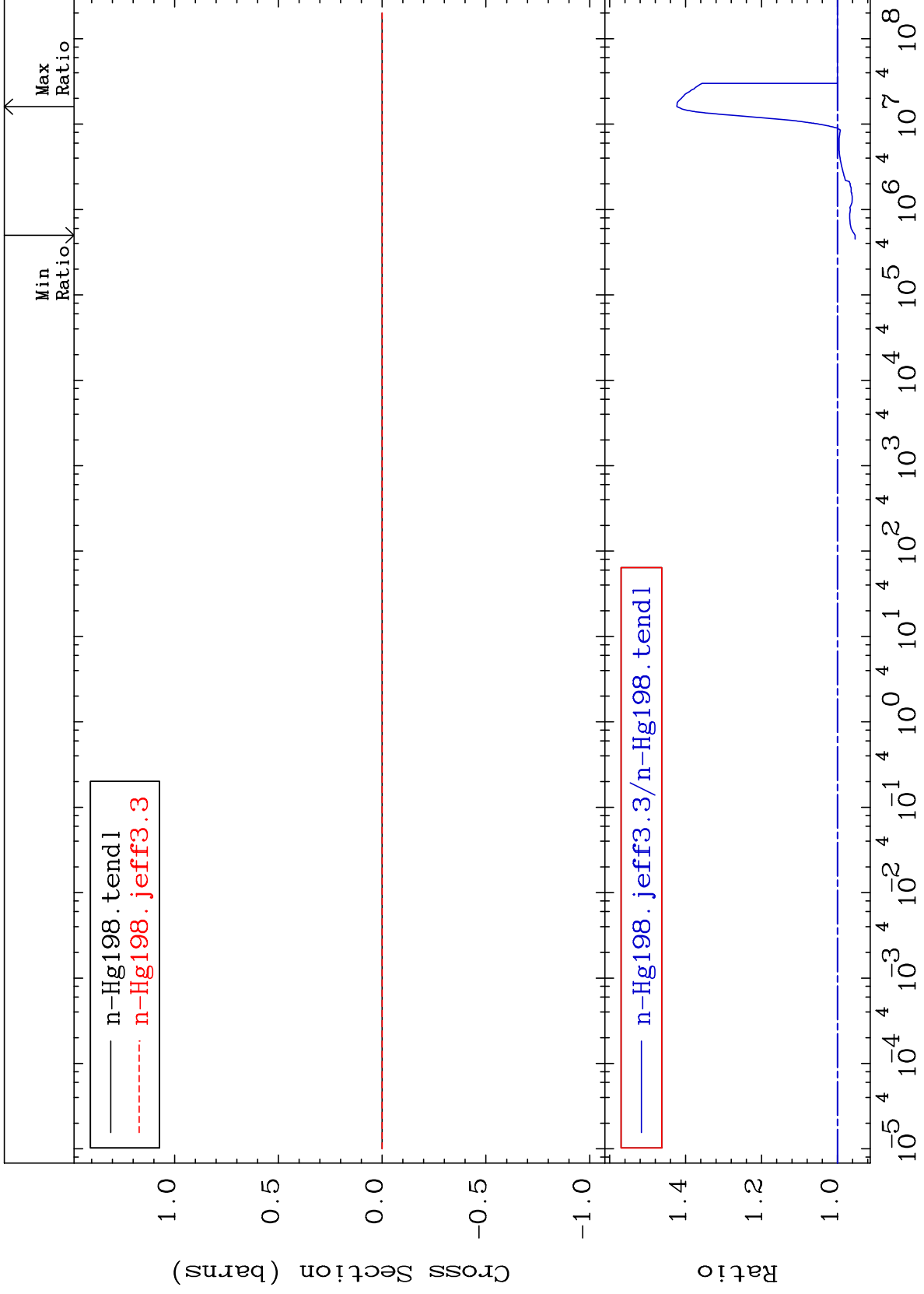




MAT 8031

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

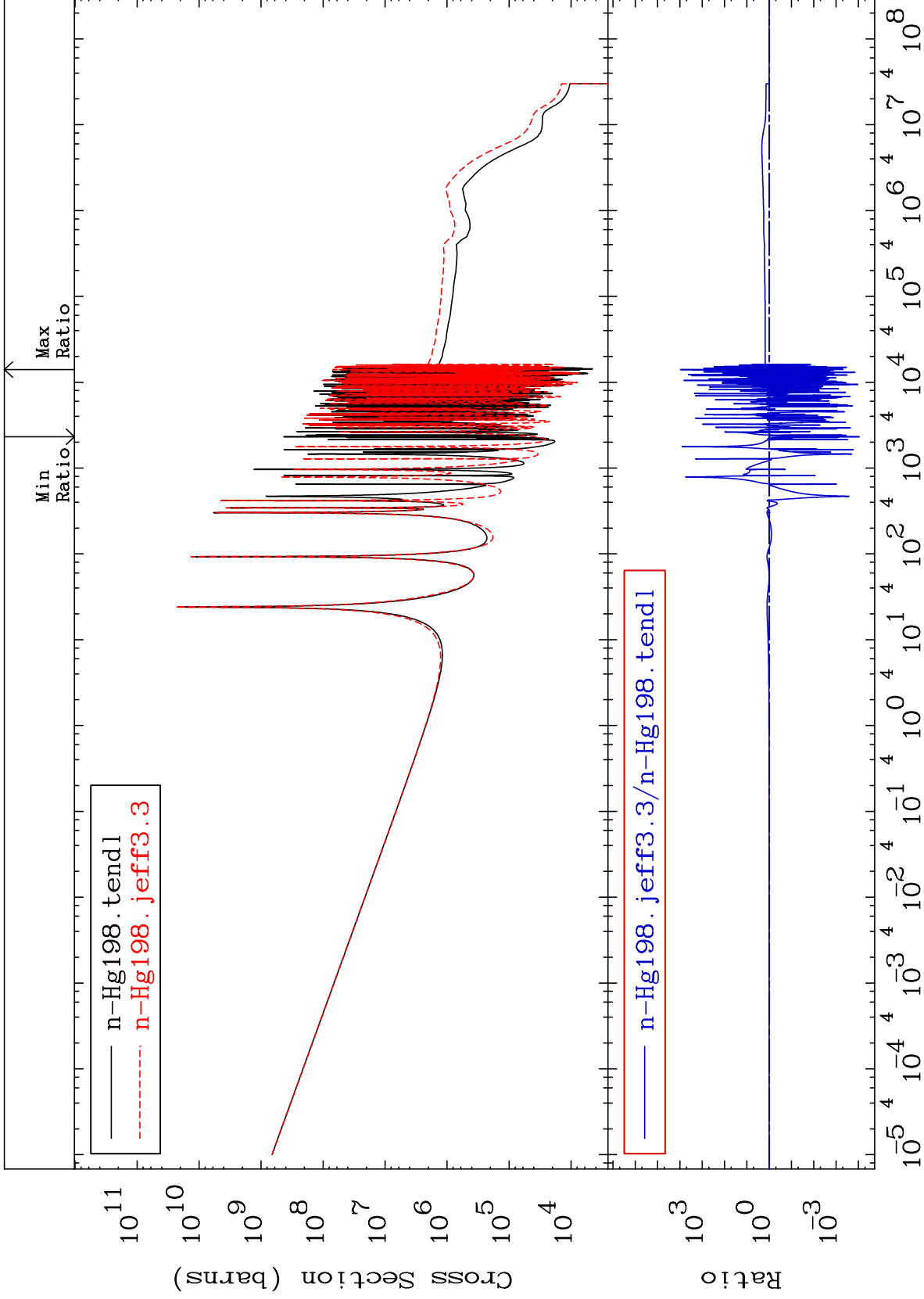
80-Hg-198  
-4.640 To 42.30 %



MAT 8031

Kerma capture (mt102)  
Cross Section

80-Hg-198  
-99.99 To 9999. %



71

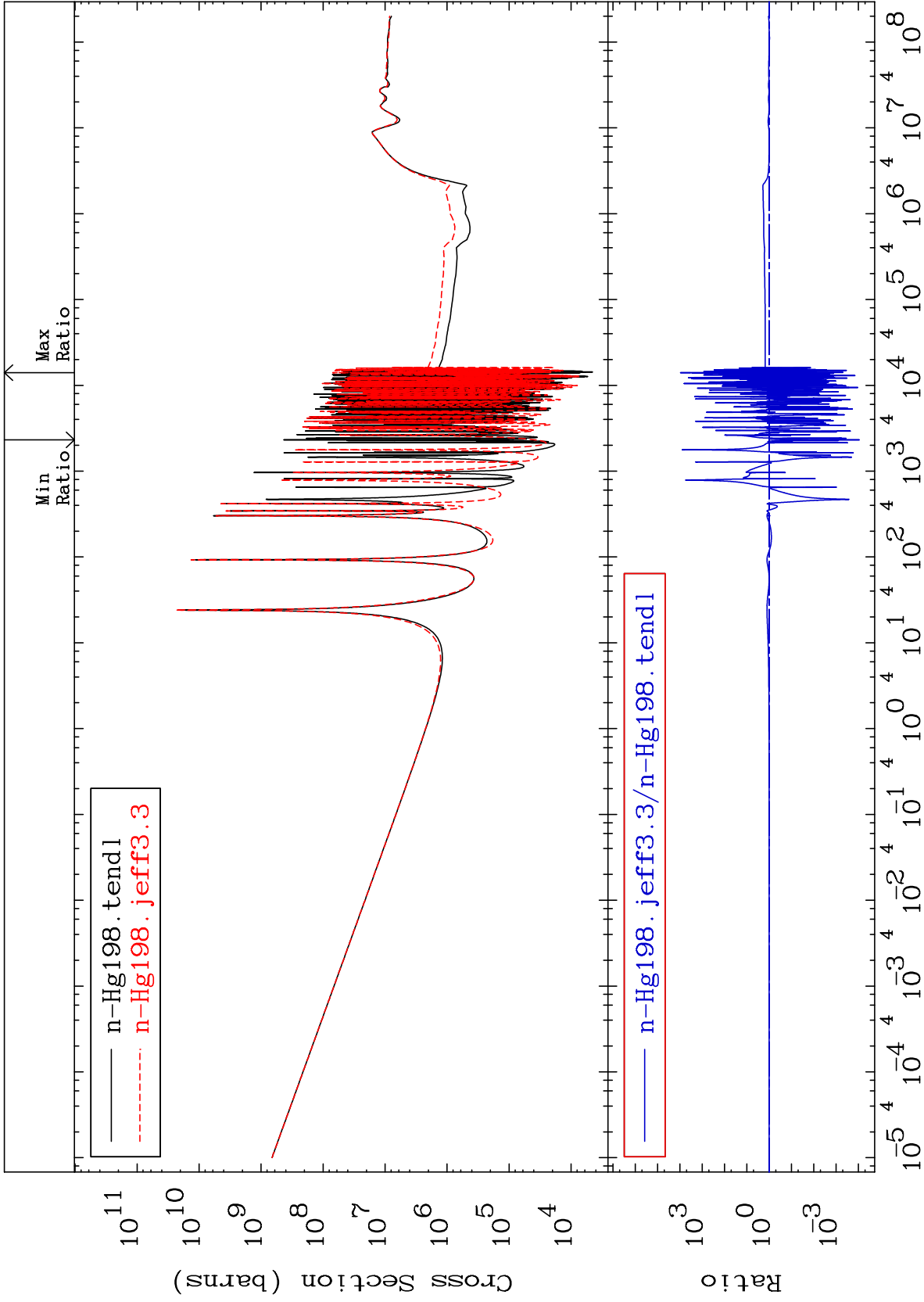
Incident Energy (eV)

80-Hg-198

MAT 8031

Total photon (eV-barns)  
Cross Section

80-Hg-198  
-99.99 To 9999. %

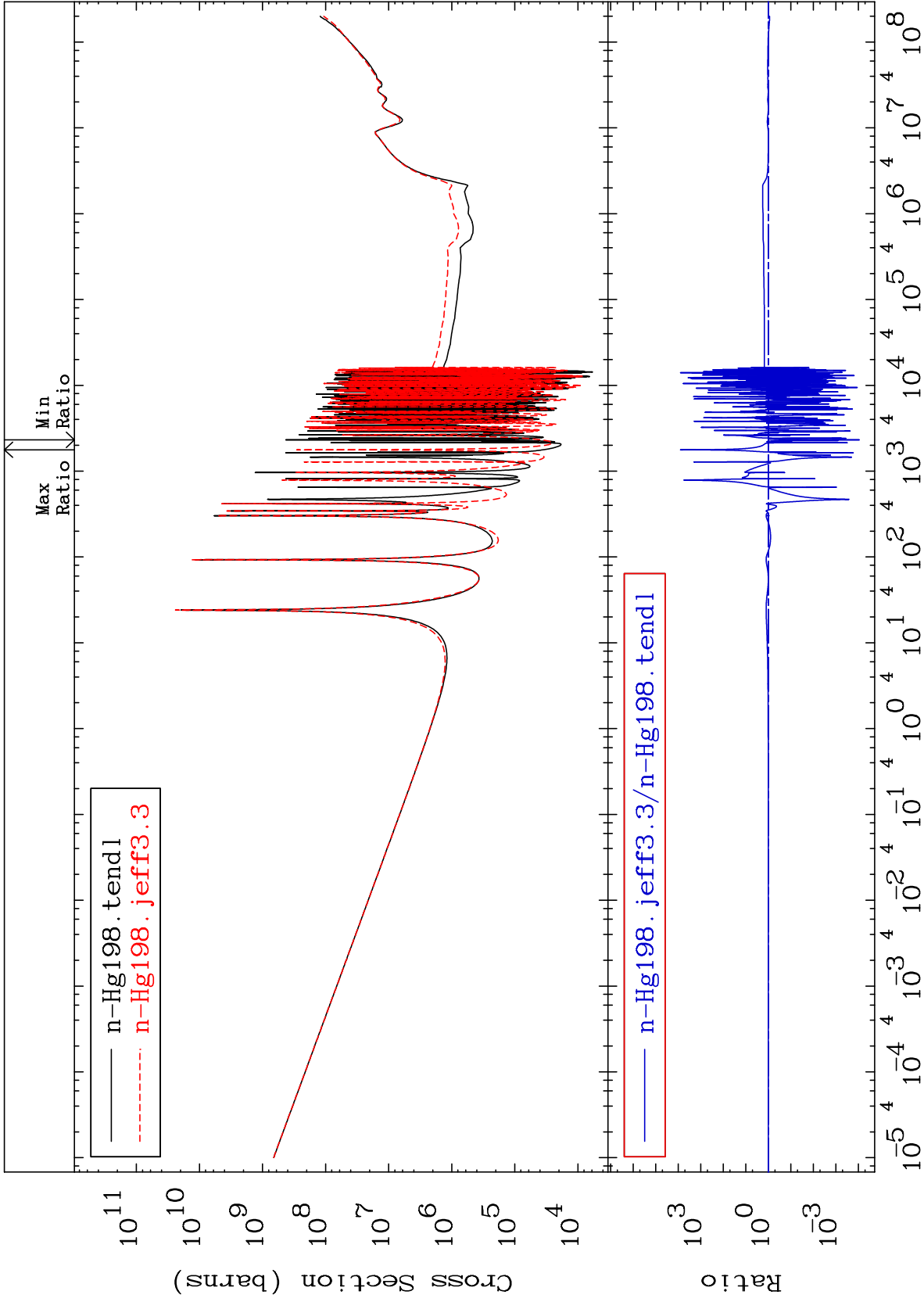


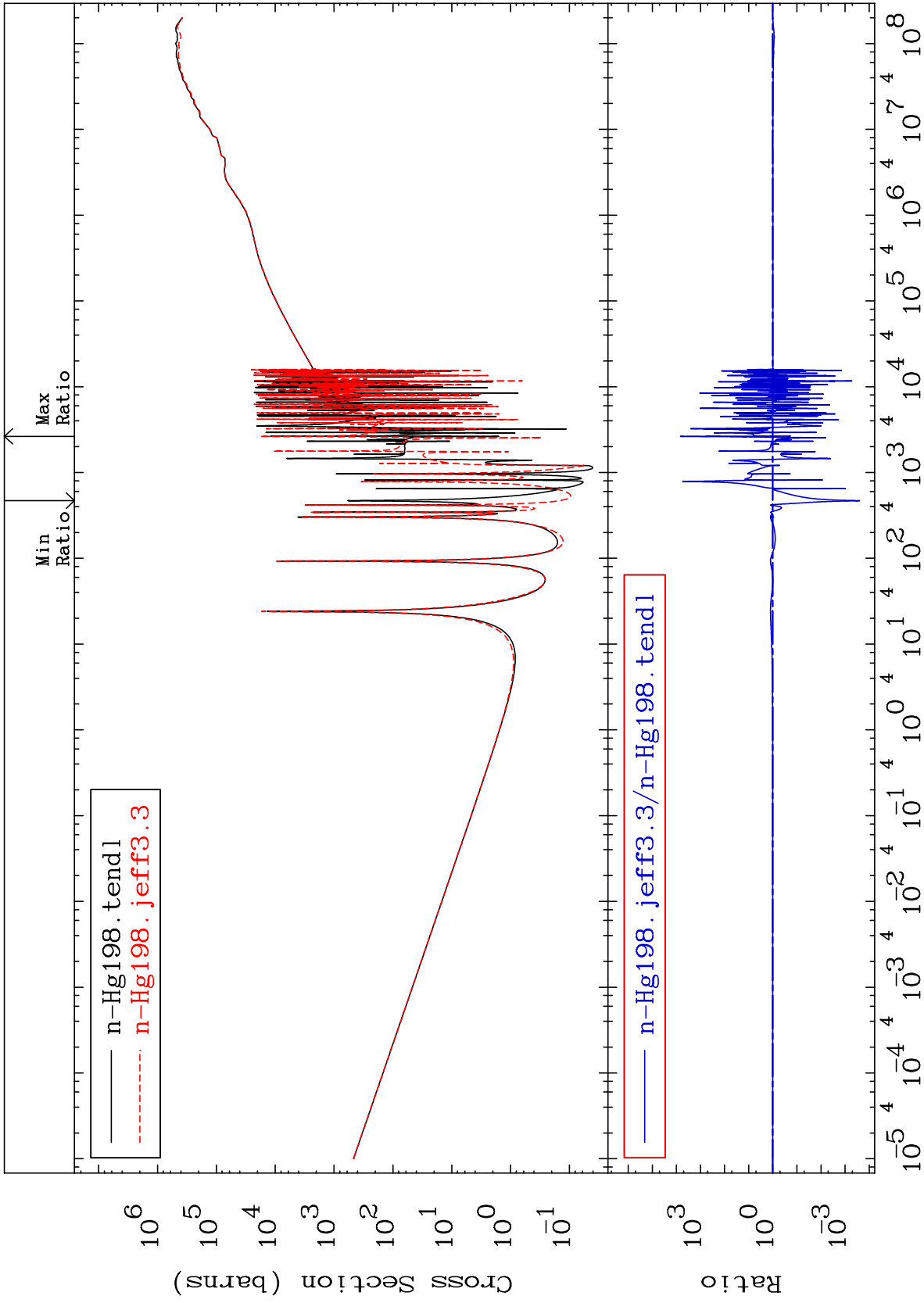
72

Incident Energy (eV)

80-Hg-198



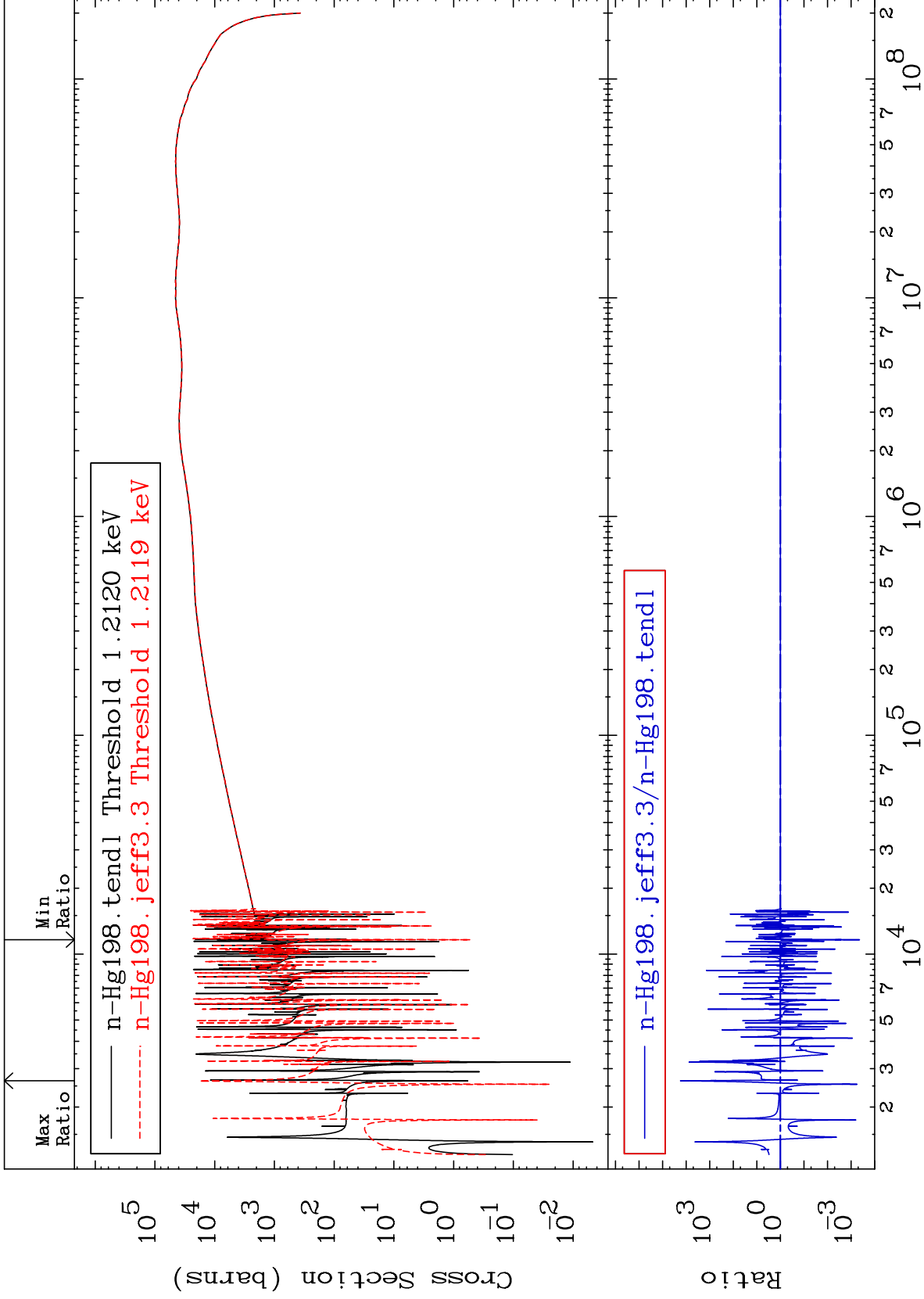


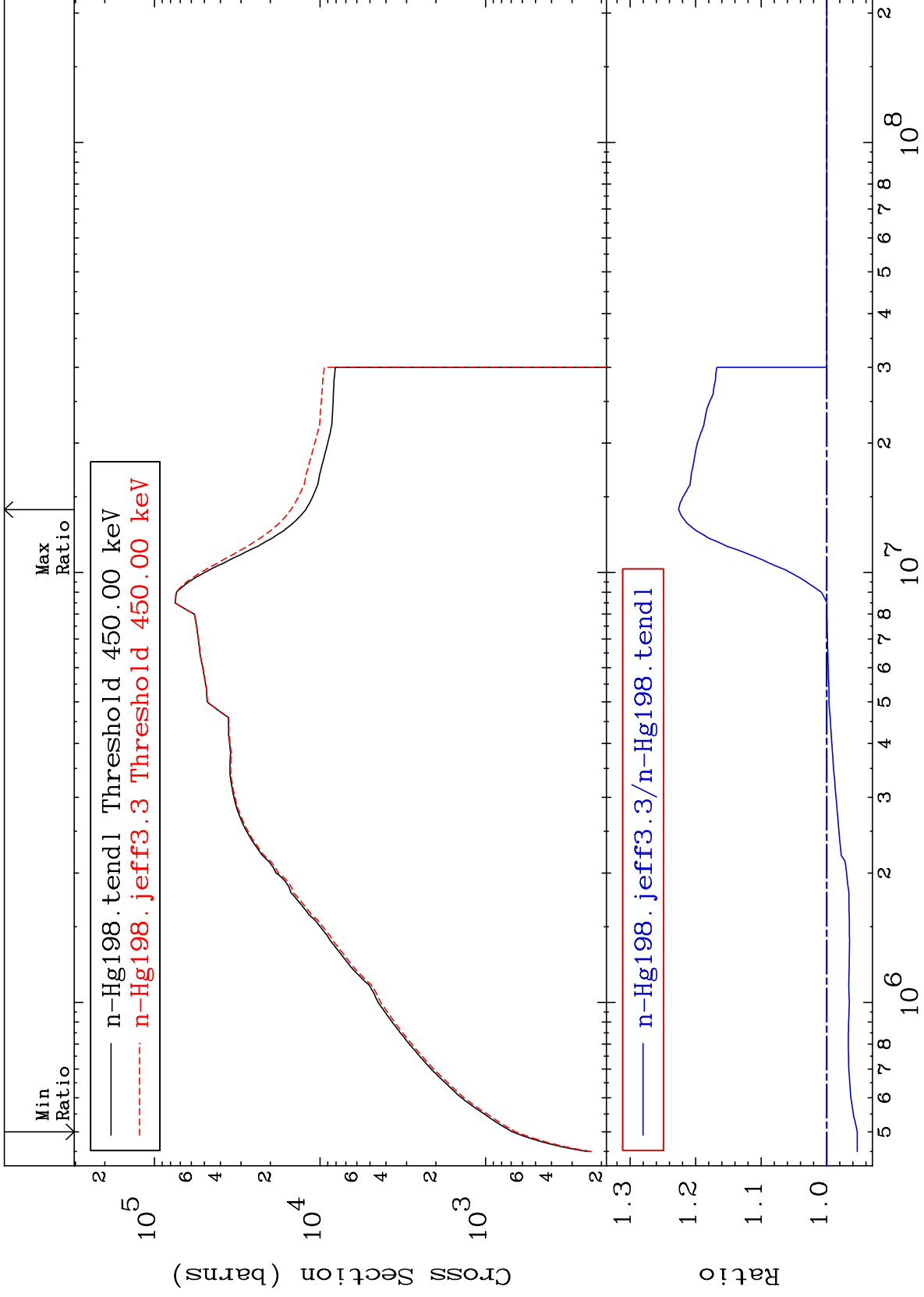


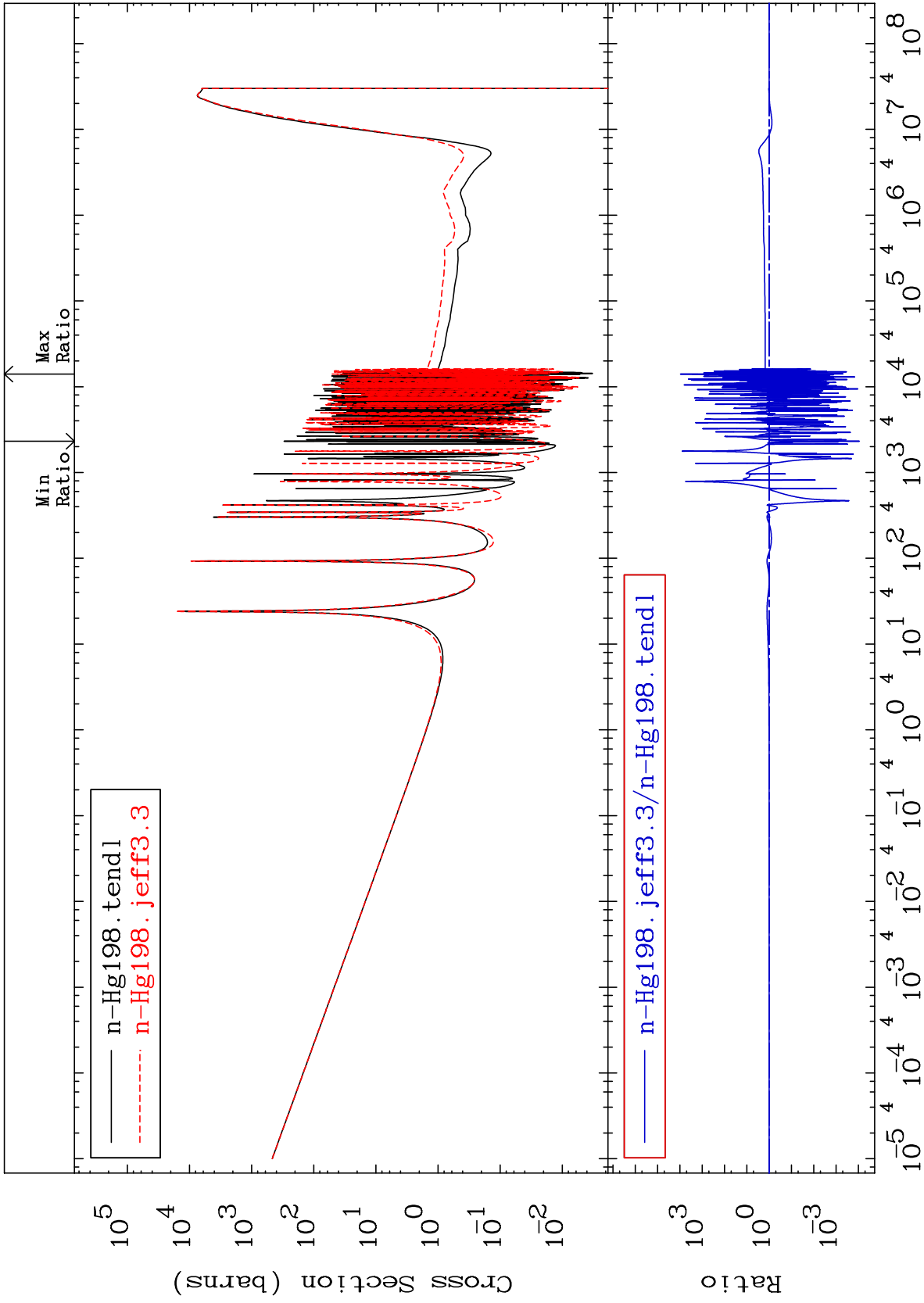
MAT 8031

Dpa elastic (mt2)  
Cross Section

80-Hg-198  
-99.96 To 9999. %





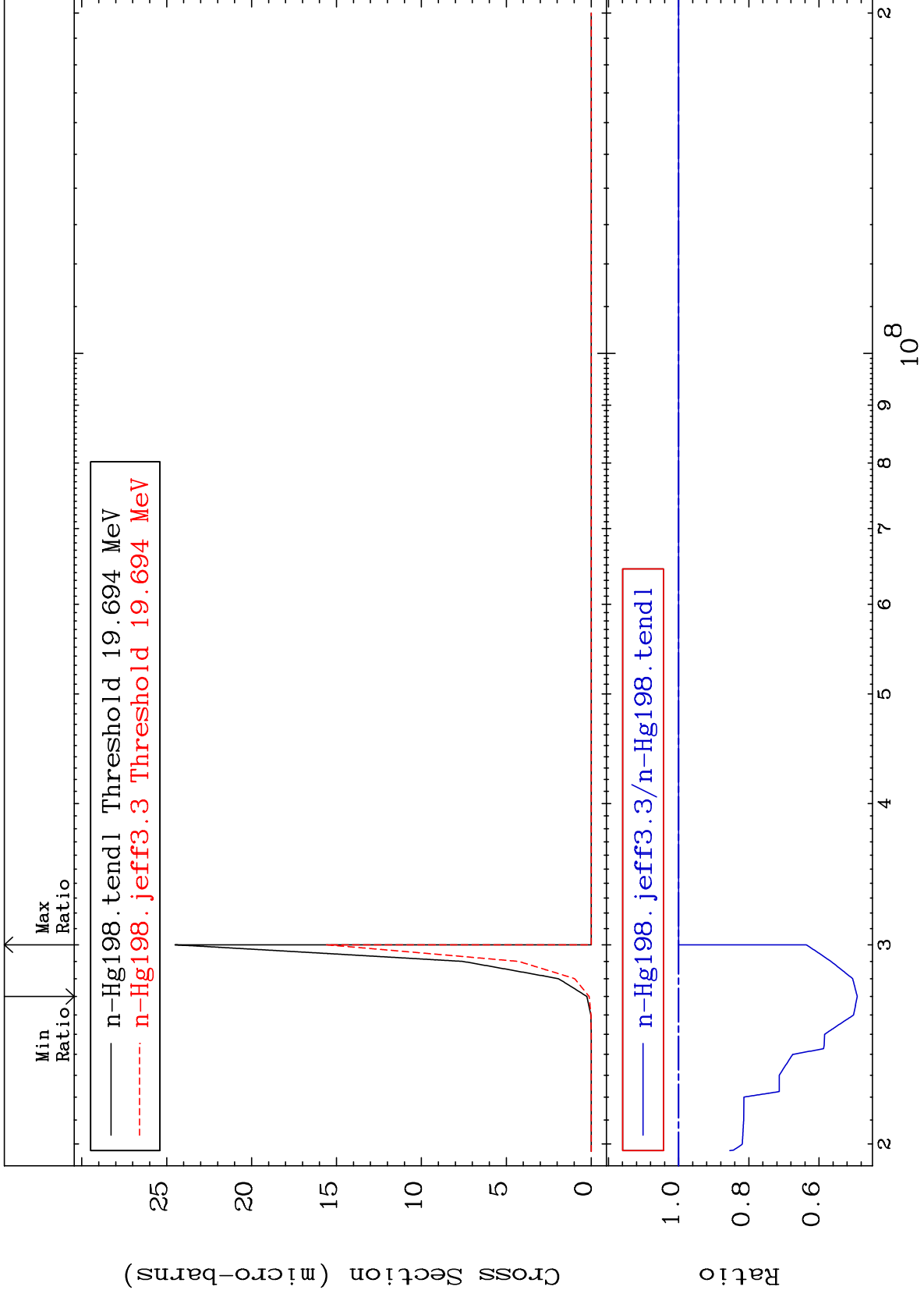


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -50.90 To 0.000 %



78

Incident Energy (eV)

80-Hg-198

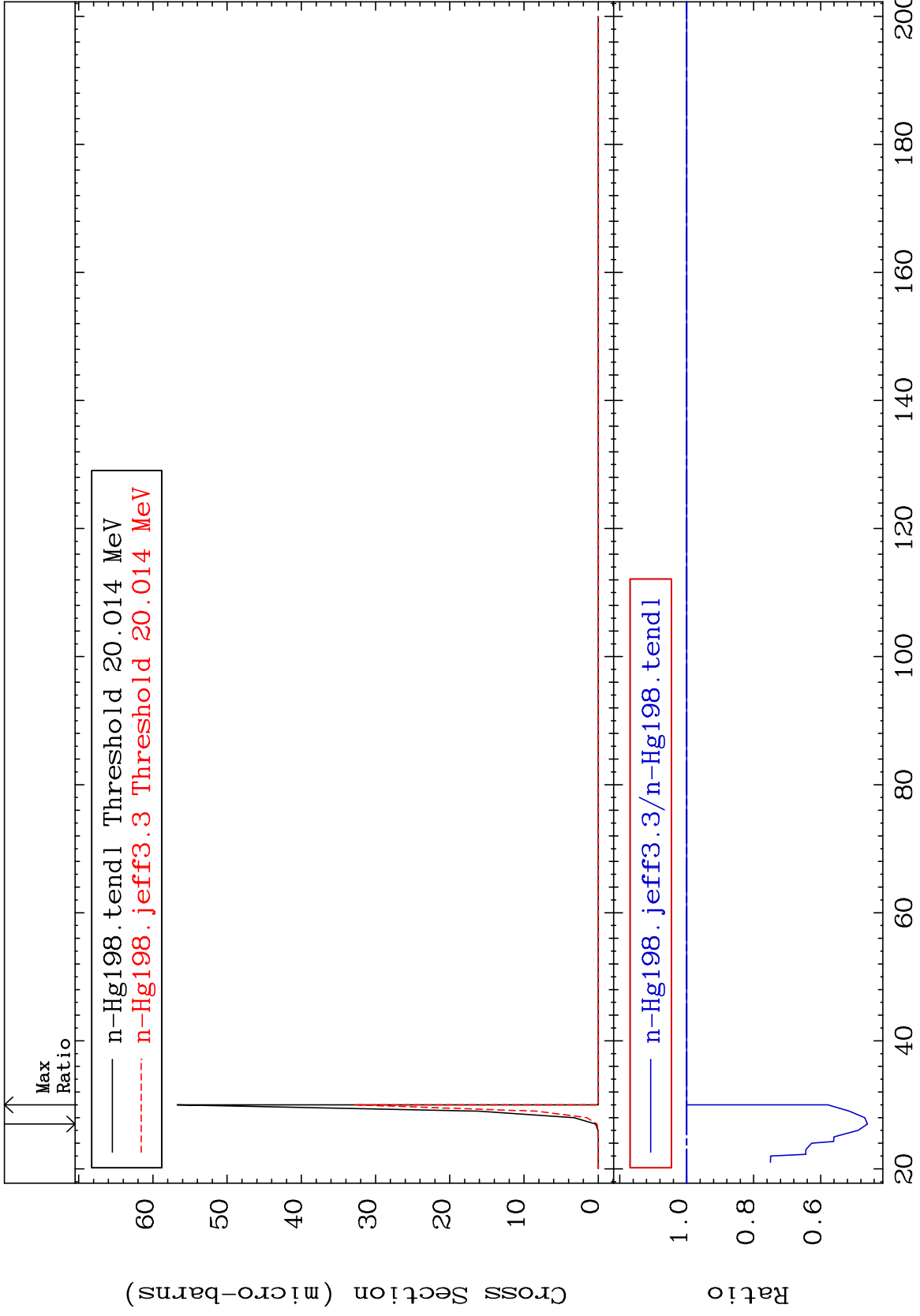
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-53.97 To 0.000 %



79

Incident Energy (MeV)

80-Hg-198

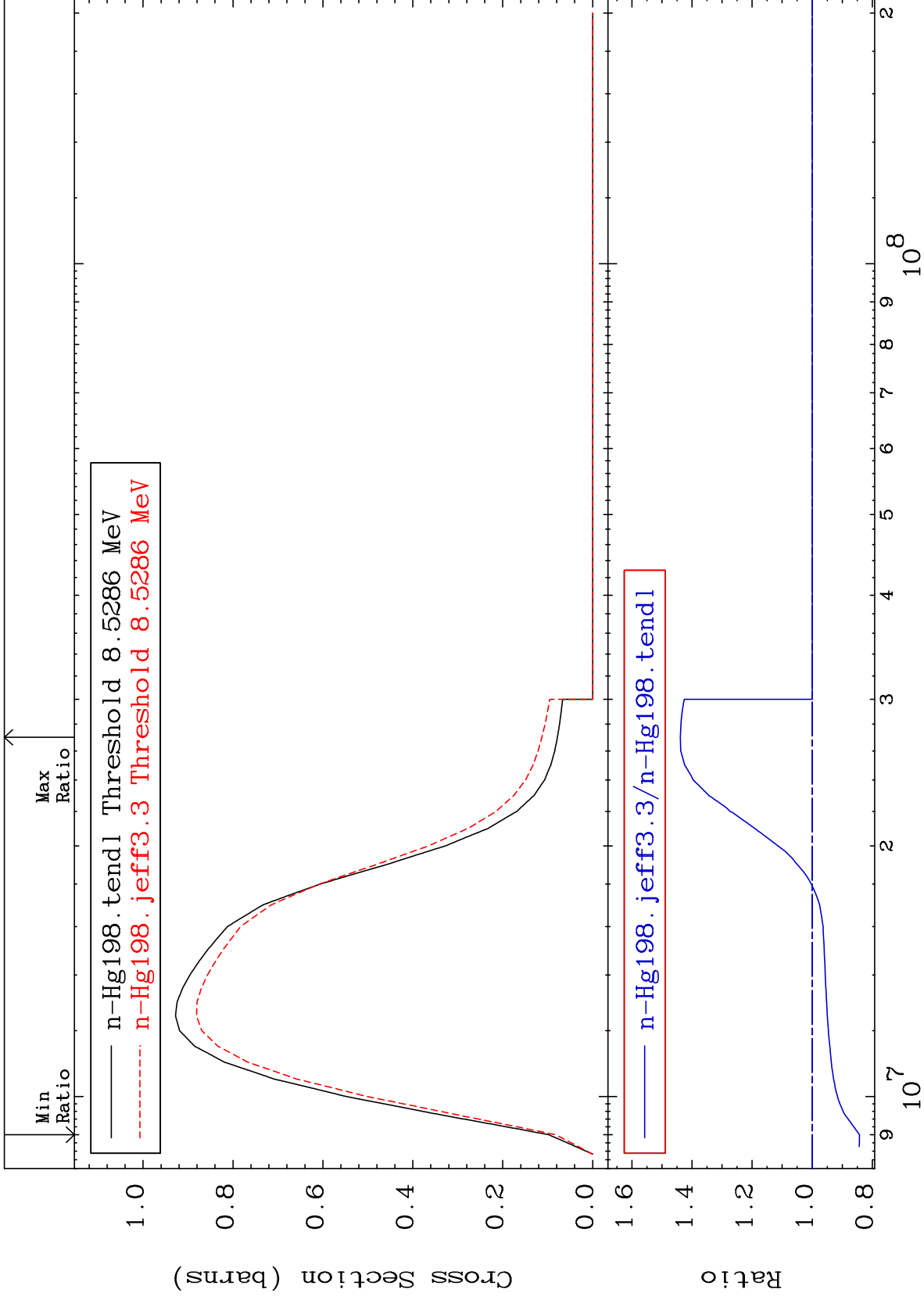
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-15.72 To 43.89 %



80

Incident Energy (eV)

80-Hg-198

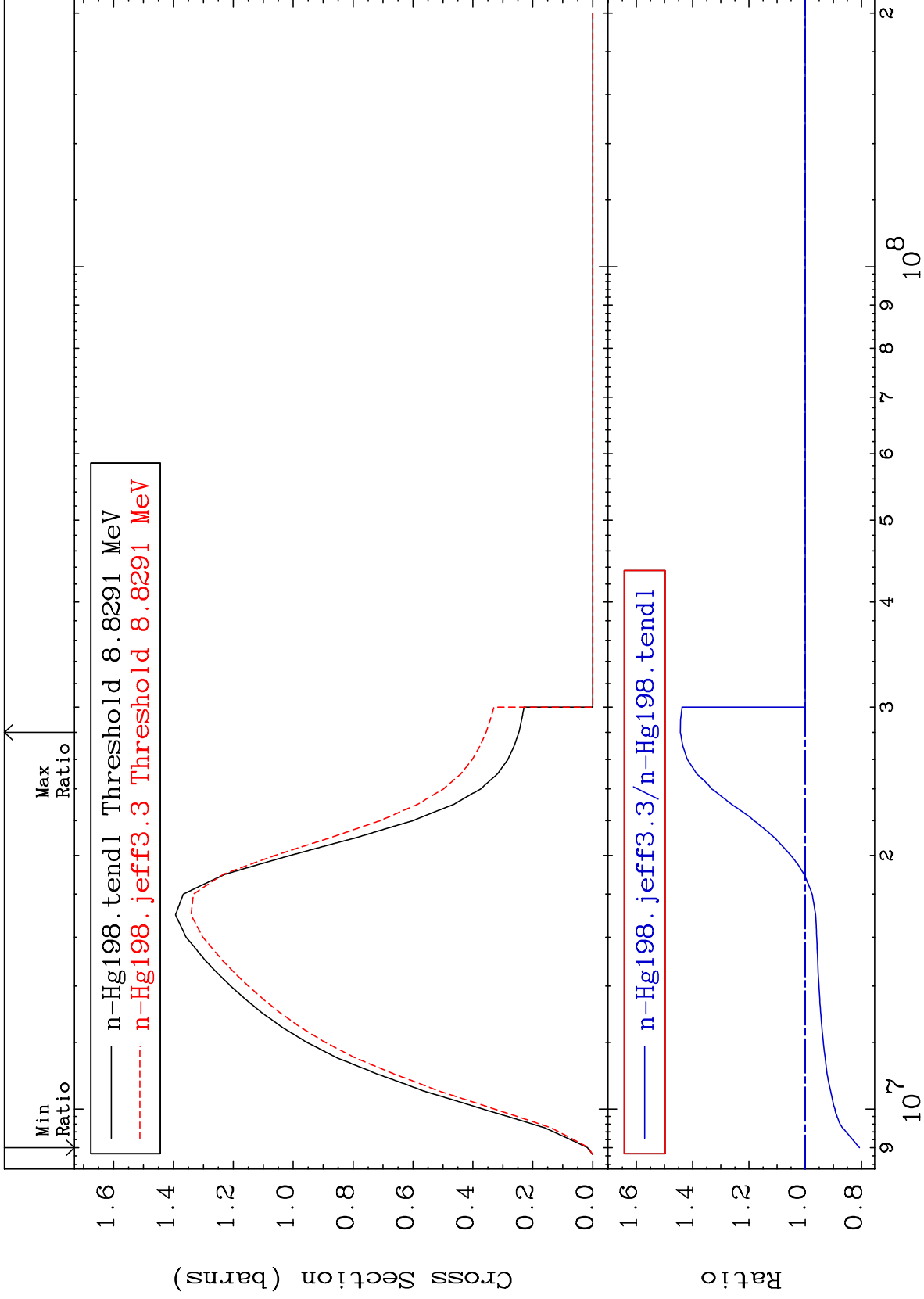


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -19.27 To 44.38 %



81

Incident Energy (eV)

80-Hg-198

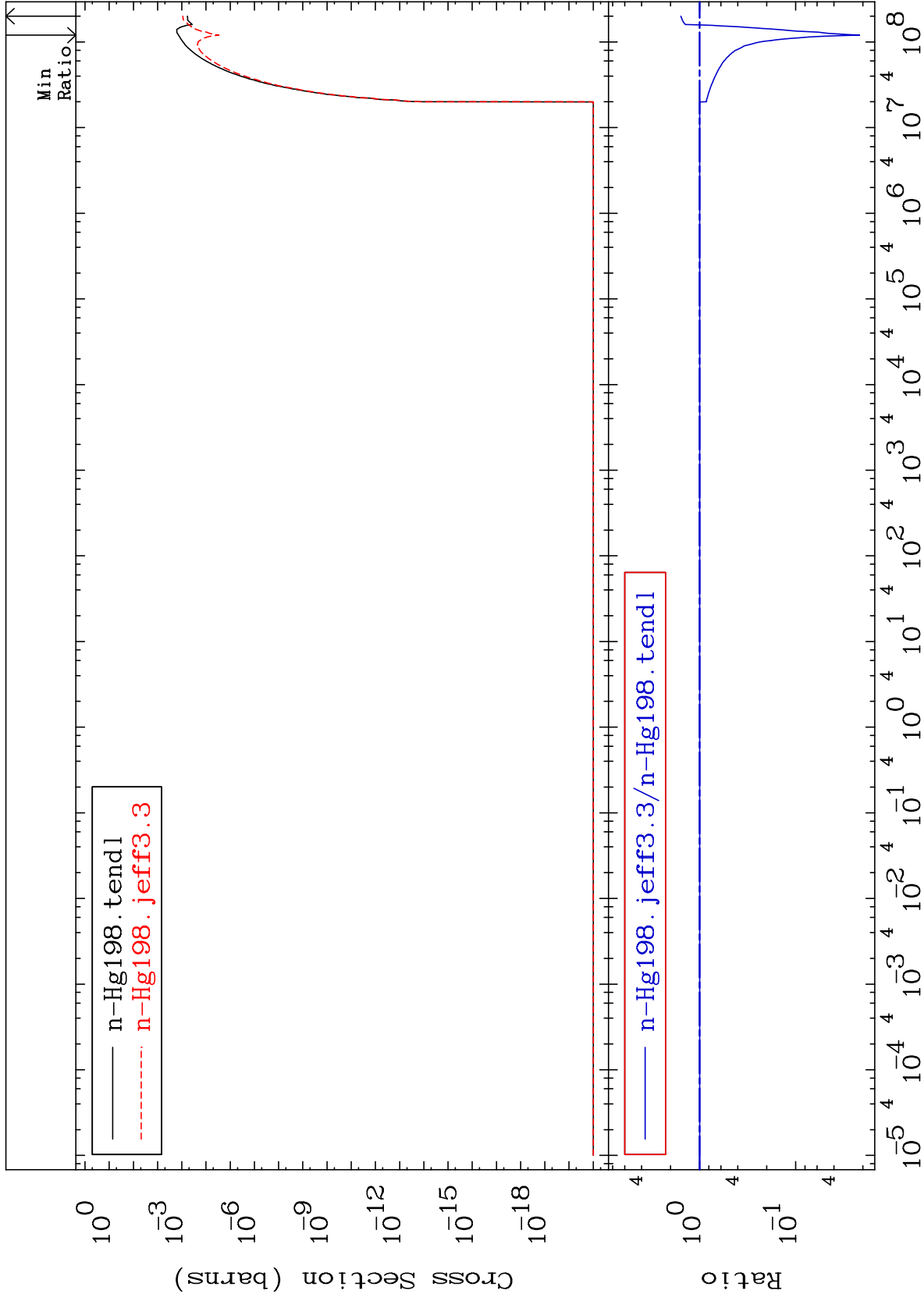
MAT 8031

Fission: Photon

80-Hg-198

Radionuclide Production Cross Section

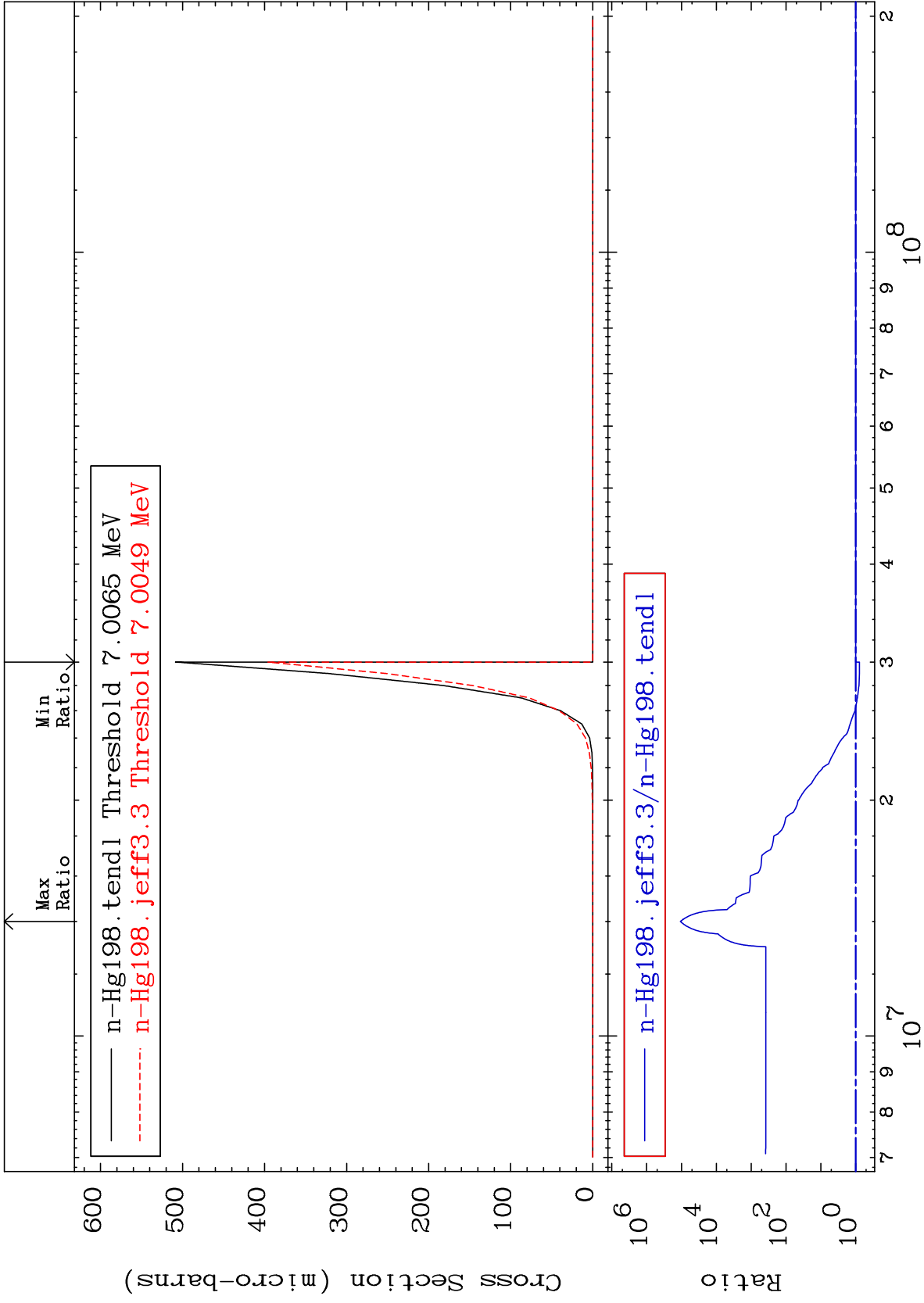
-97.83 To 56.83 %



82

Incident Energy (eV)

80-Hg-198



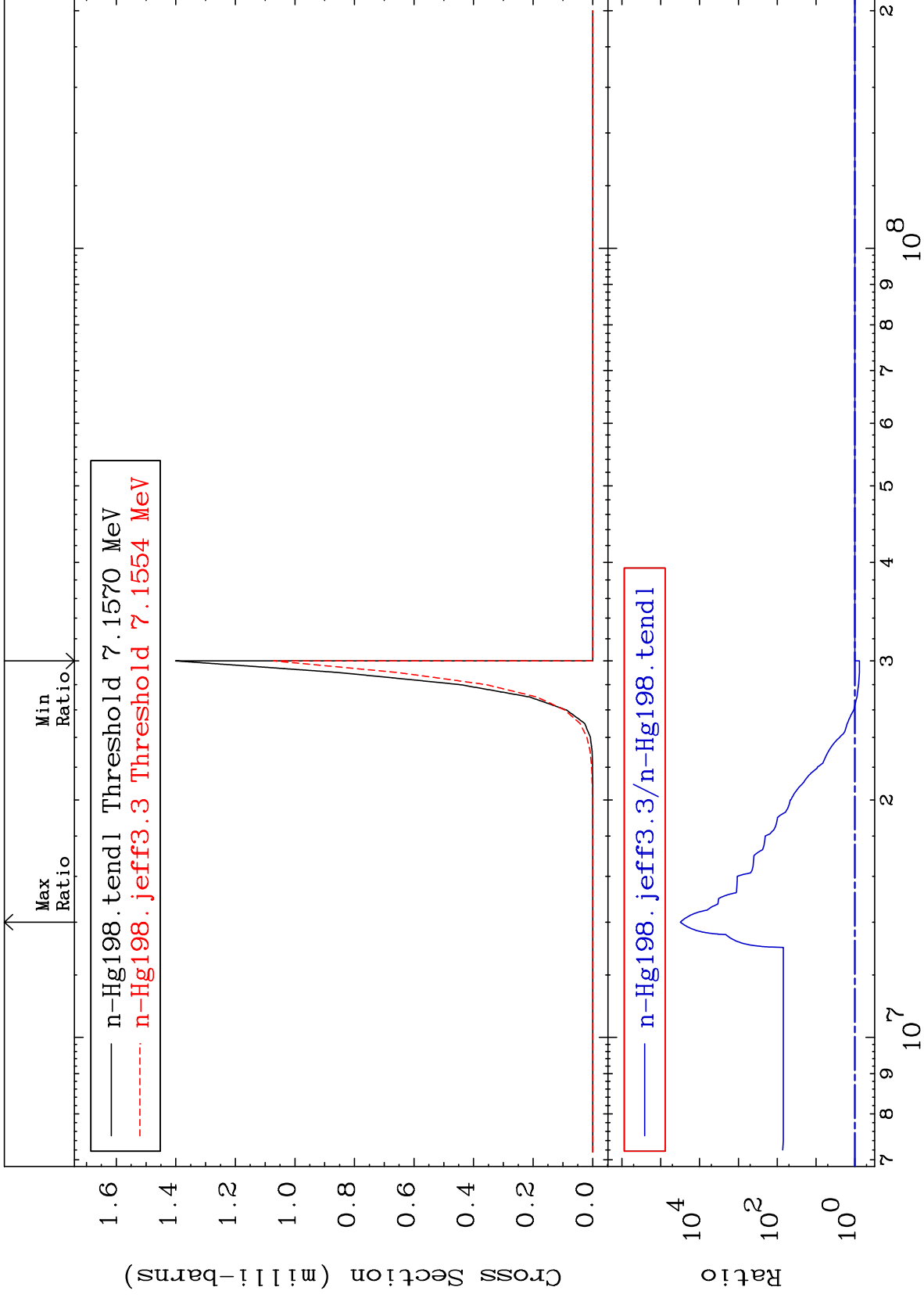
MAT 8031

(n,2n)  $\alpha$ : 78-Pt-193m5

80-Hg-198

Radionuclide Production Cross Section

-23.52 To 9999. %



84

Incident Energy (eV)

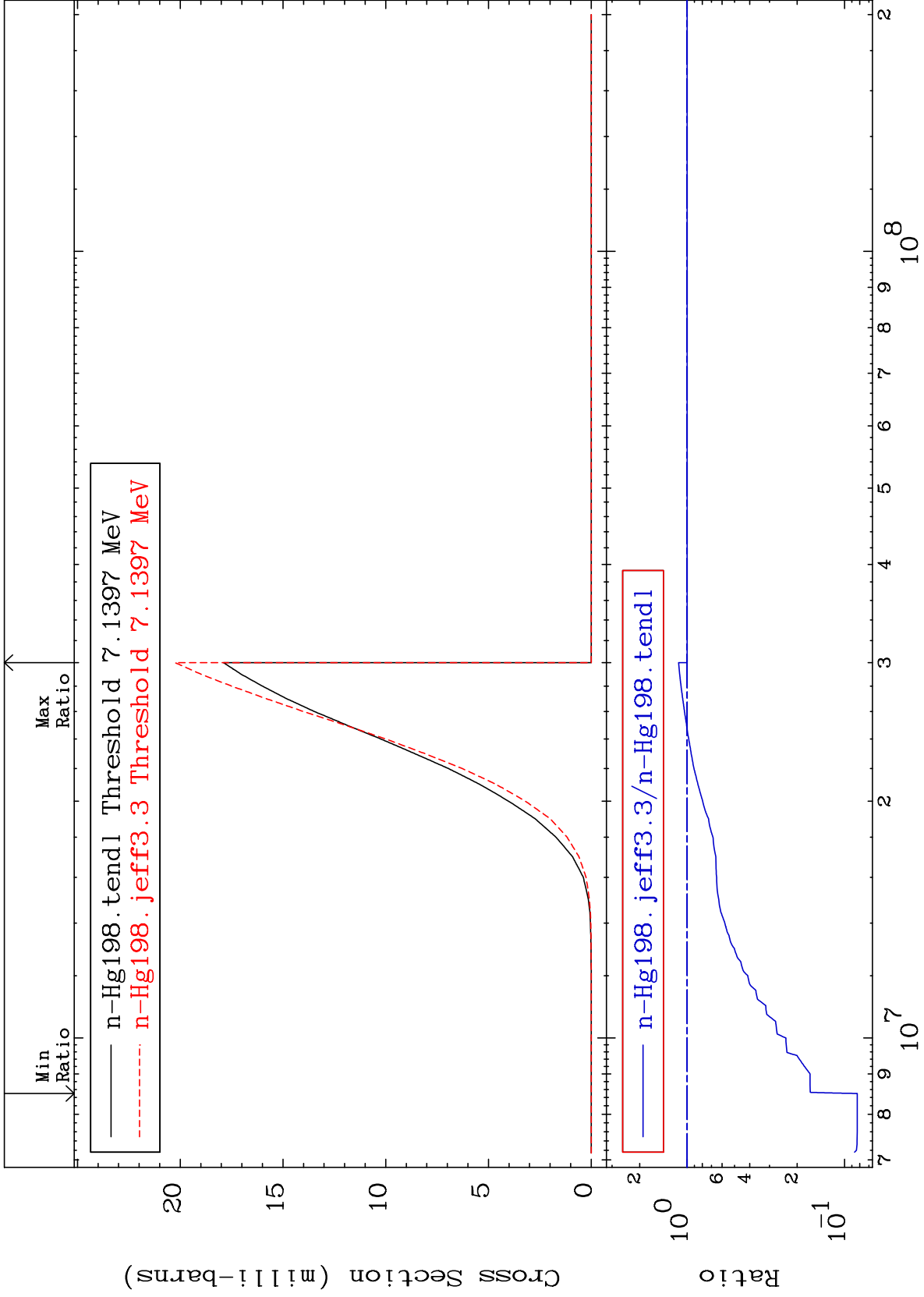
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -91.70 To 13.20 %



85

Incident Energy (eV)

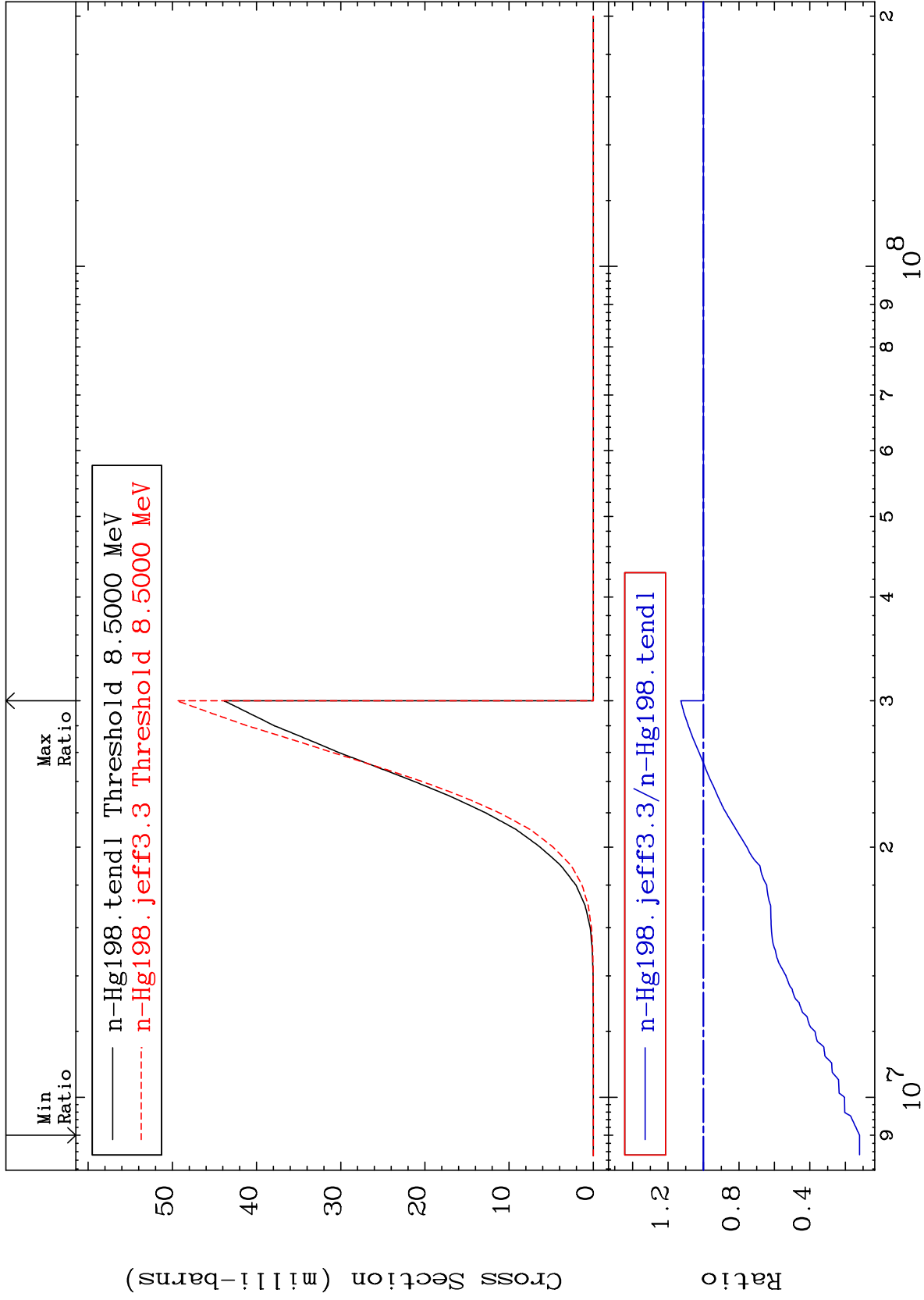
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -88.00 To 12.81 %

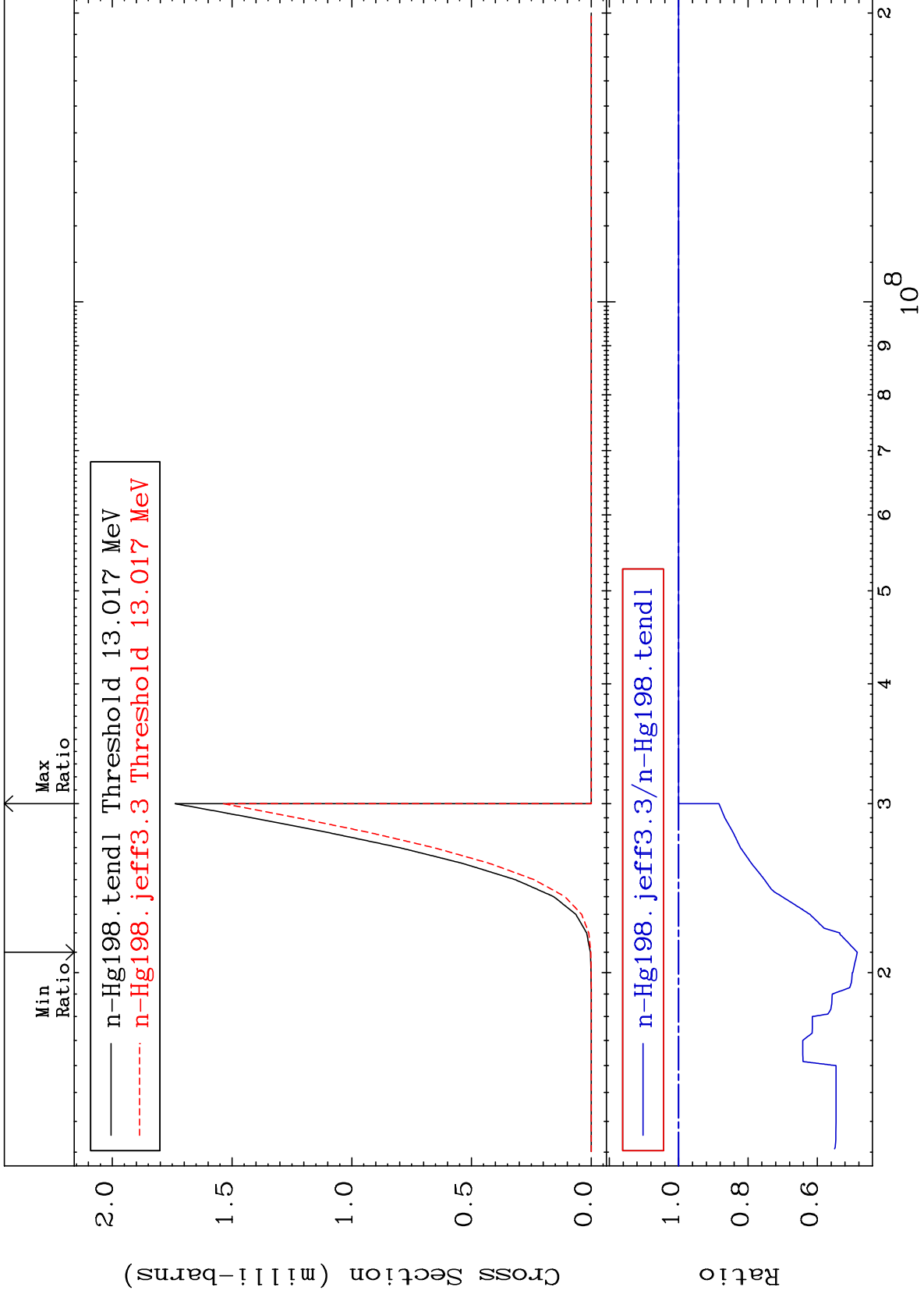


86

Incident Energy (eV)

80-Hg-198

Radionuclide Production Cross Section -51.52 To 0.000 %



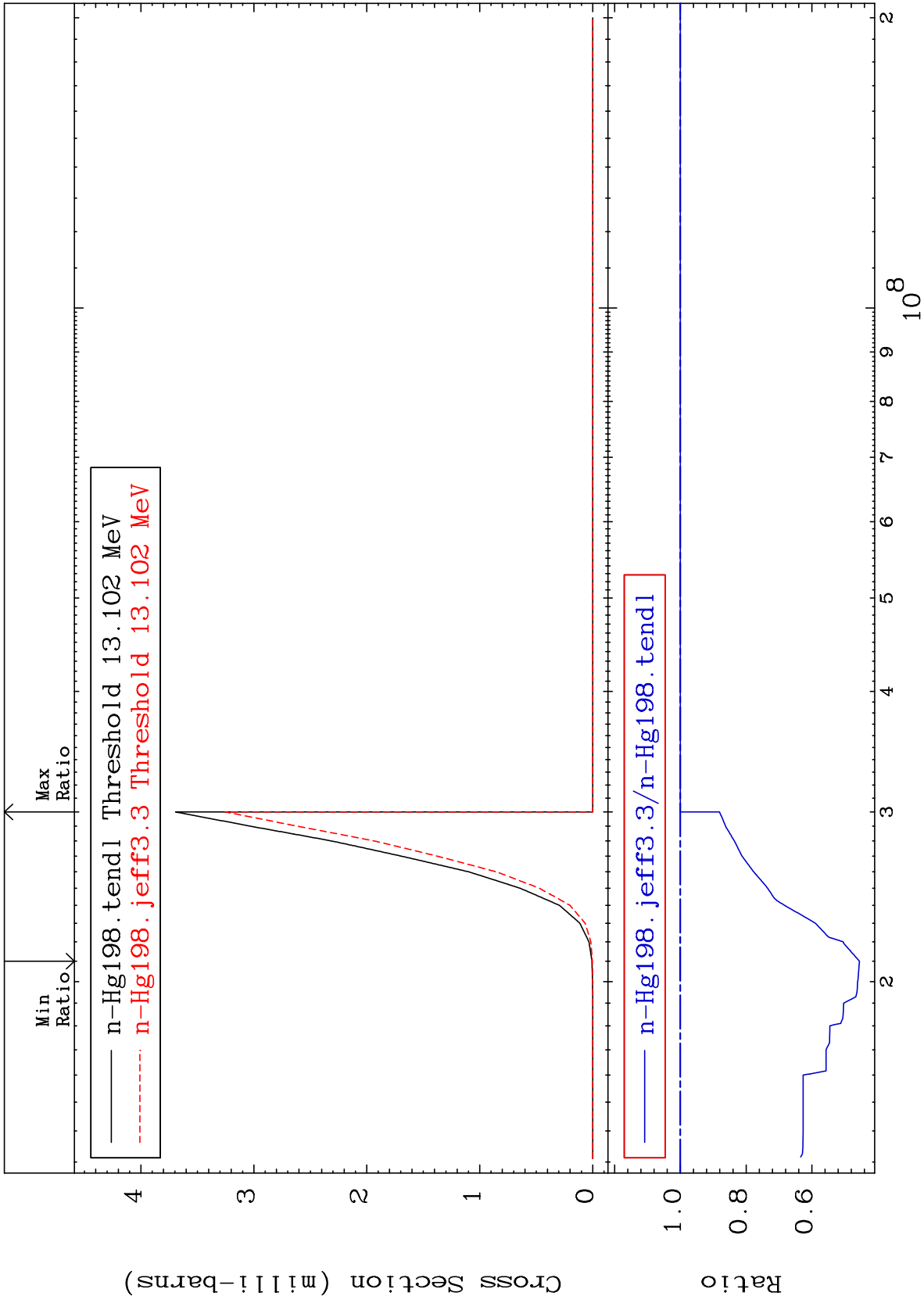
MAT 8031

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

80-Hg-198

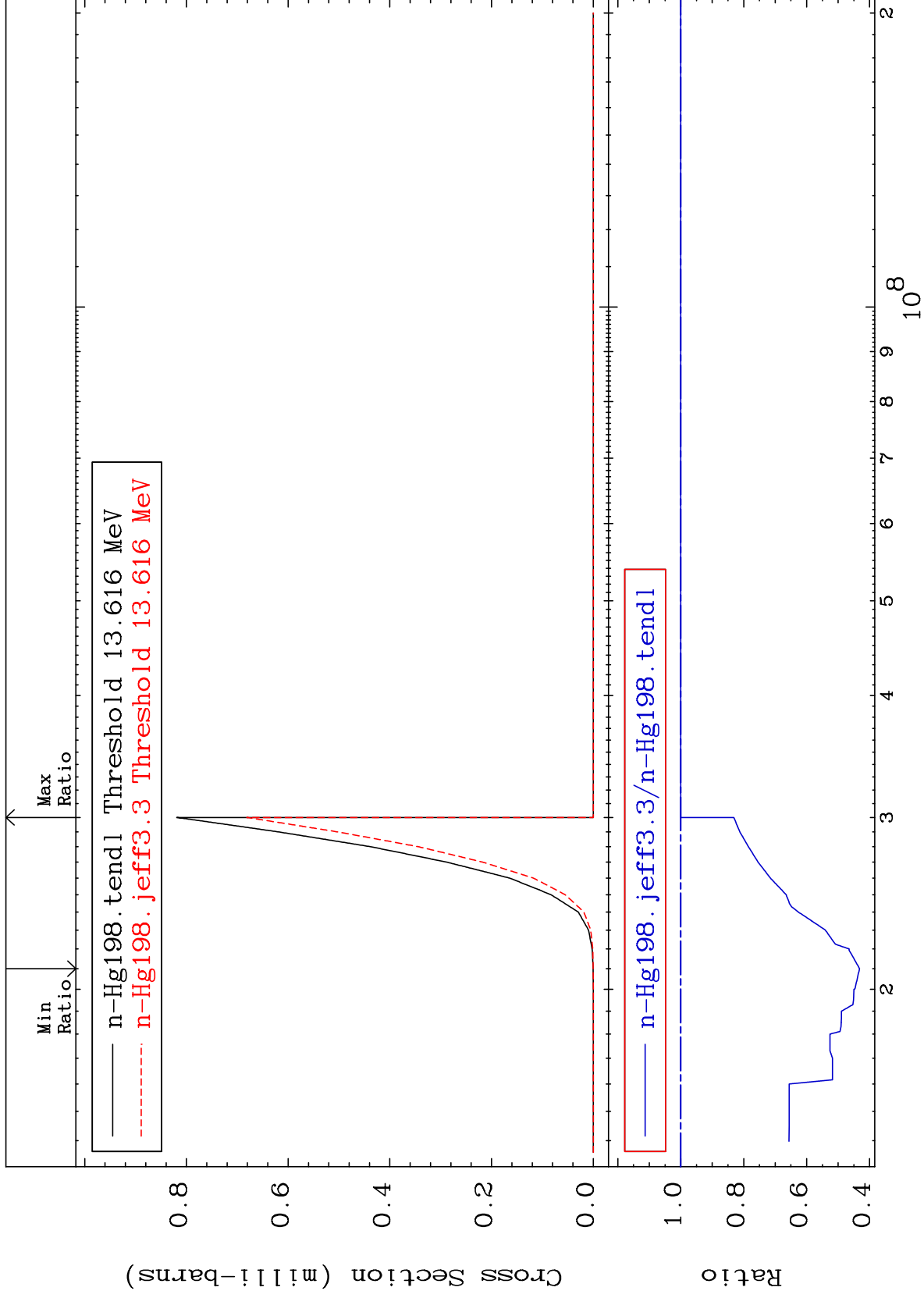
Radionuclide Production Cross Section

-54.46 To 0.000 %

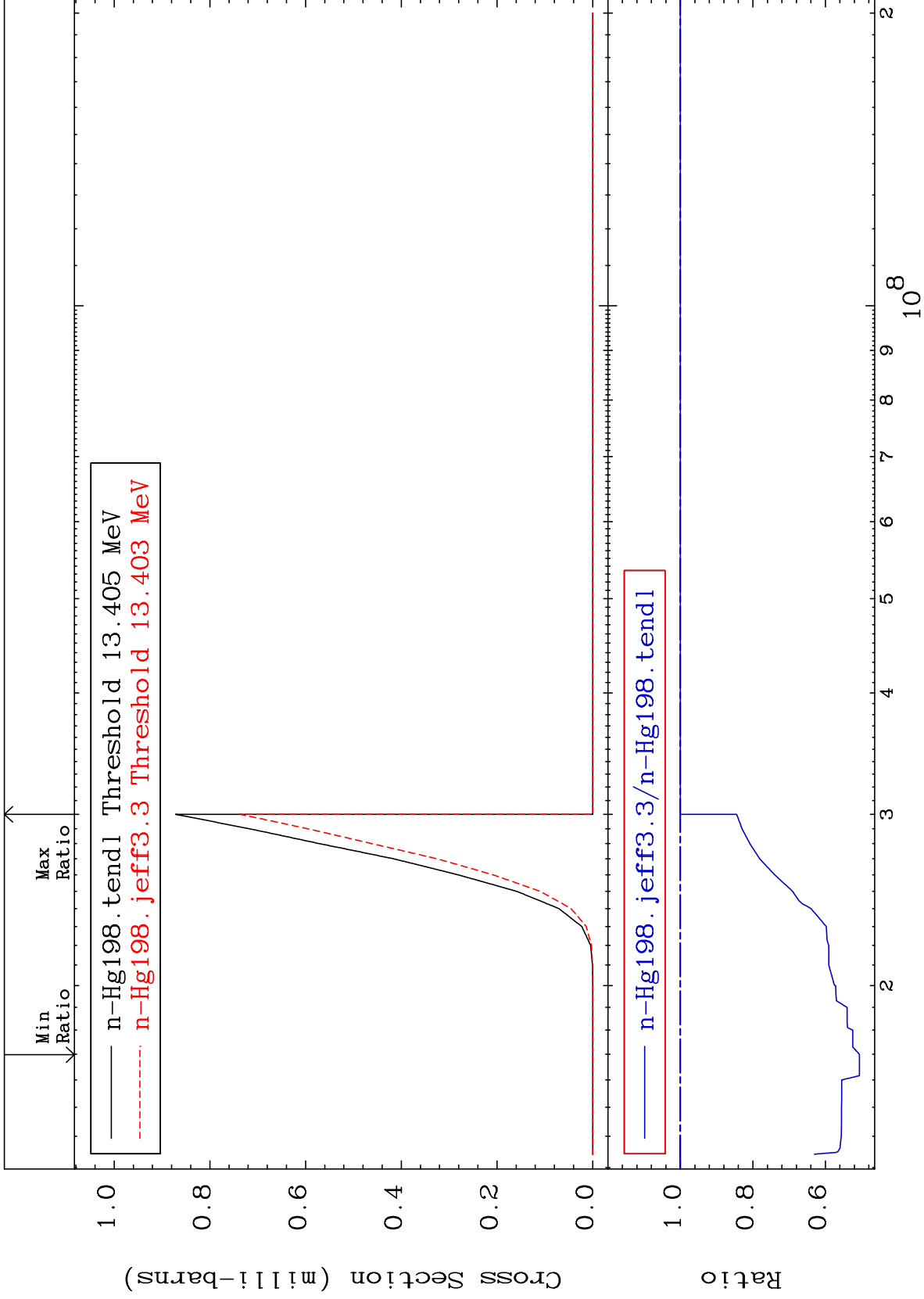




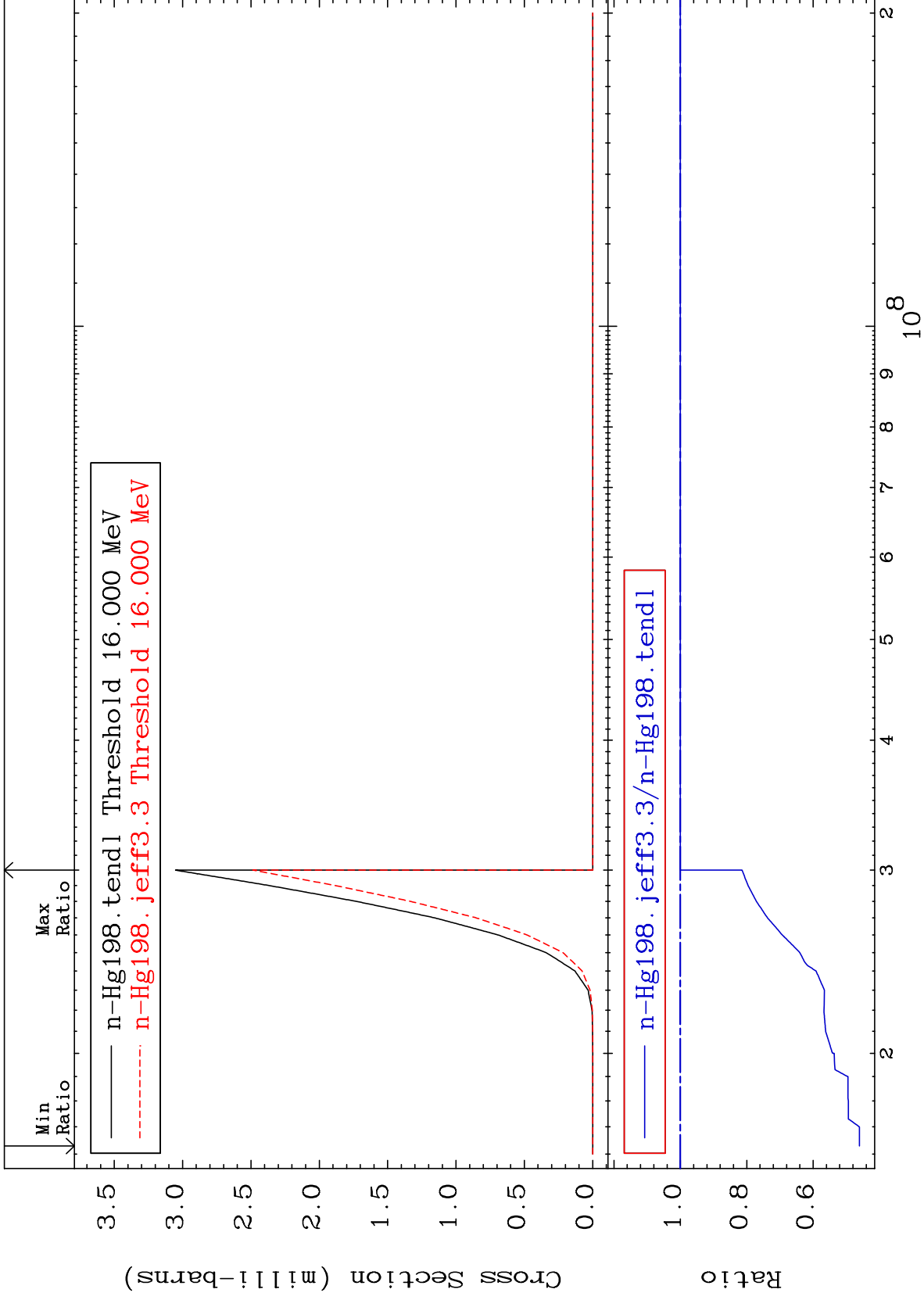
Radionuclide Production Cross Section -56.80 To 0.000 %



Radionuclide Production Cross Section -49.39 To 0.000 %

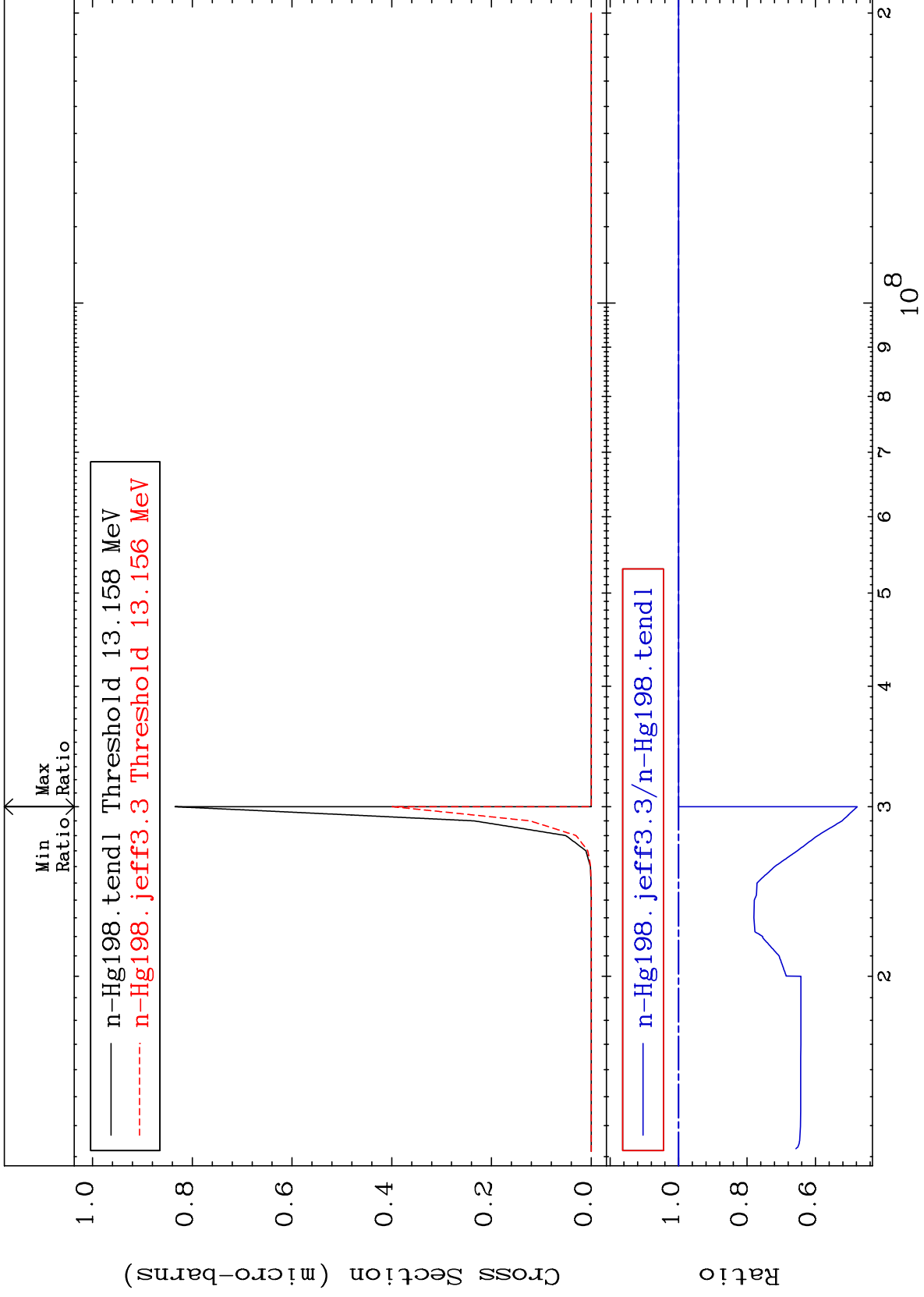


Radionuclide Production Cross Section -53.94 To 0.000 %

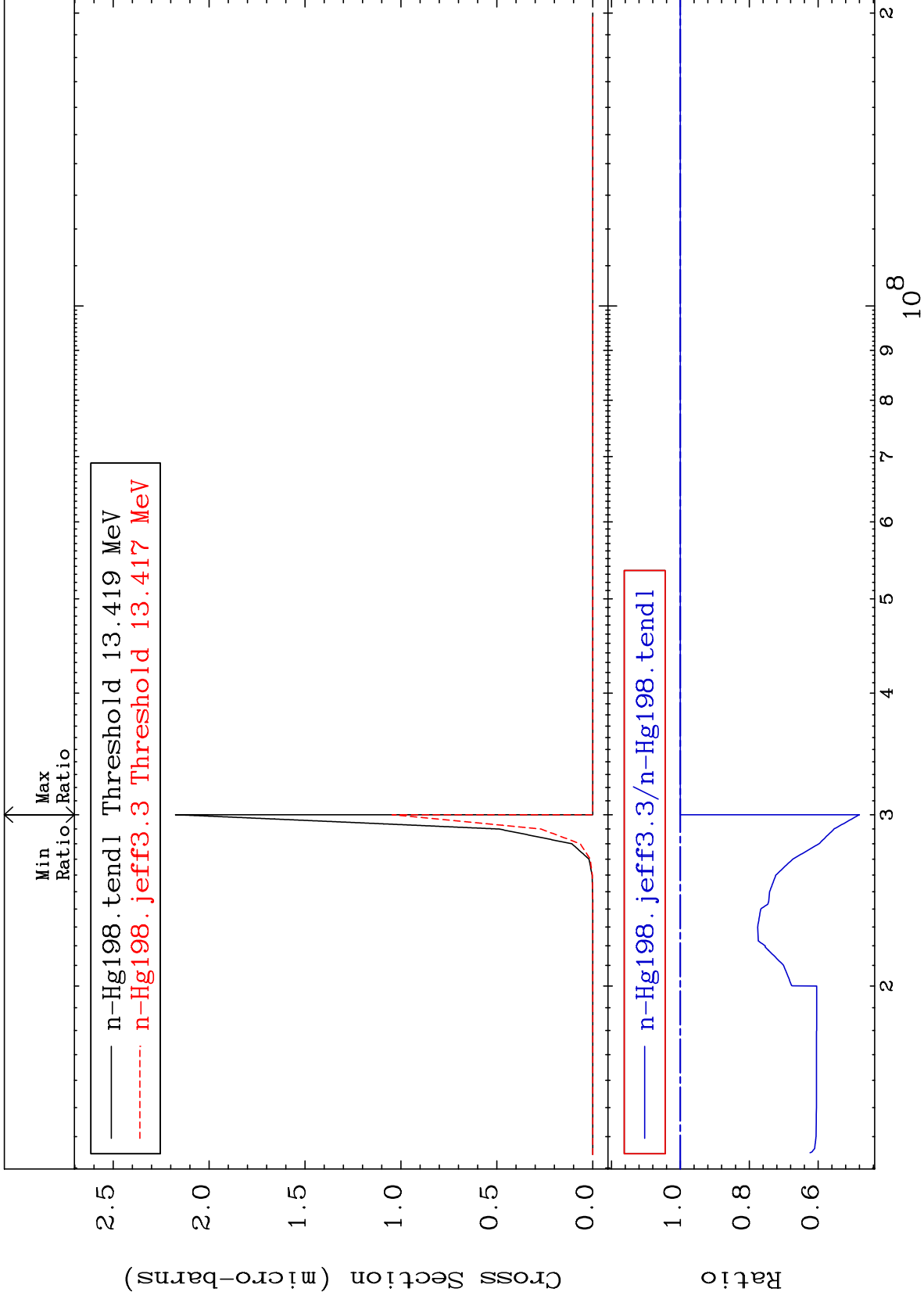


MAT 8031

(n, n') He-3:78-Pt-195g 80-Hg-198  
Radionuclide Production Cross Section -52.22 To 0.000 %



Radionuclide Production Cross Section -51.98 To 0.000 %



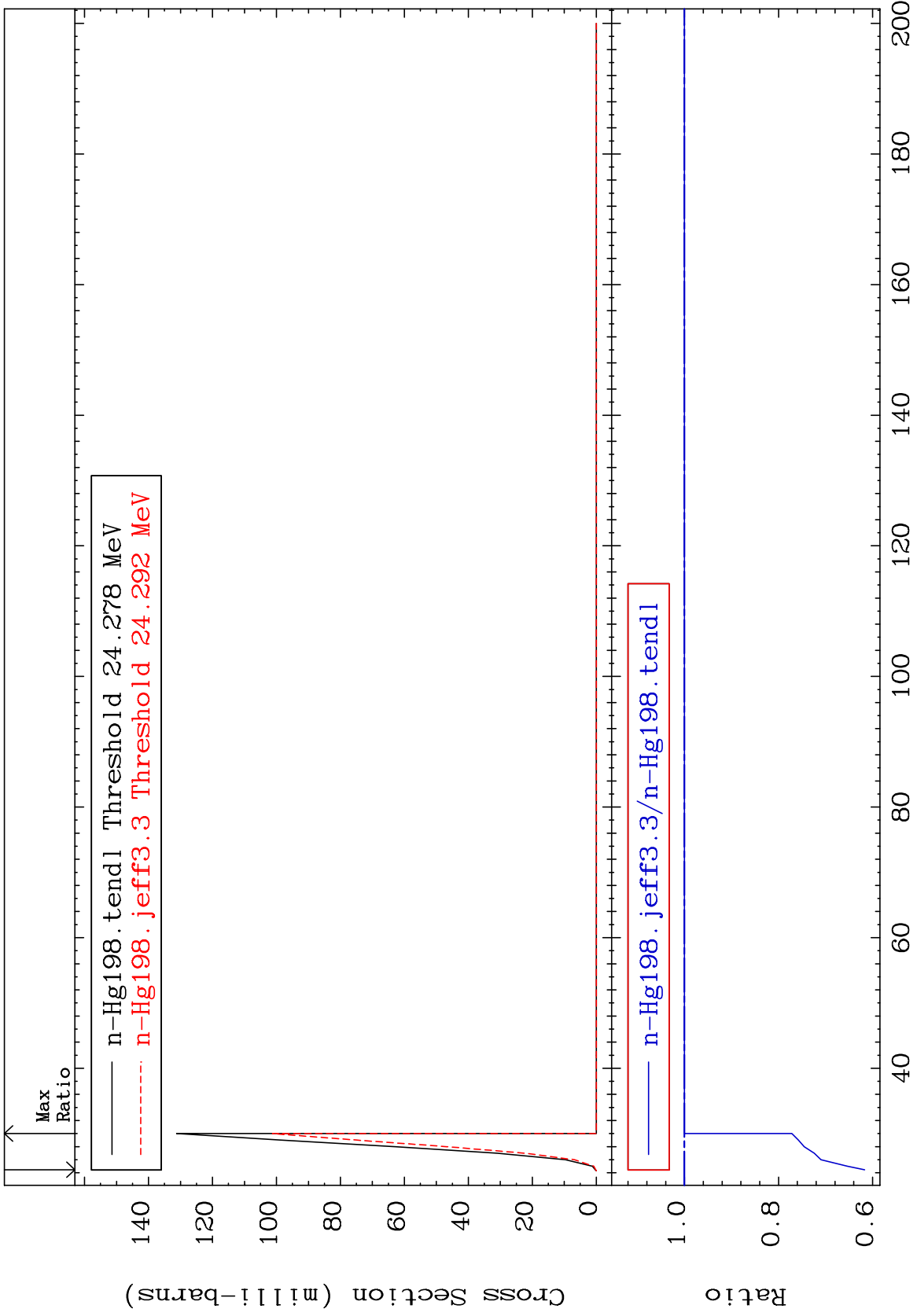
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-38.30 To 0.000 %

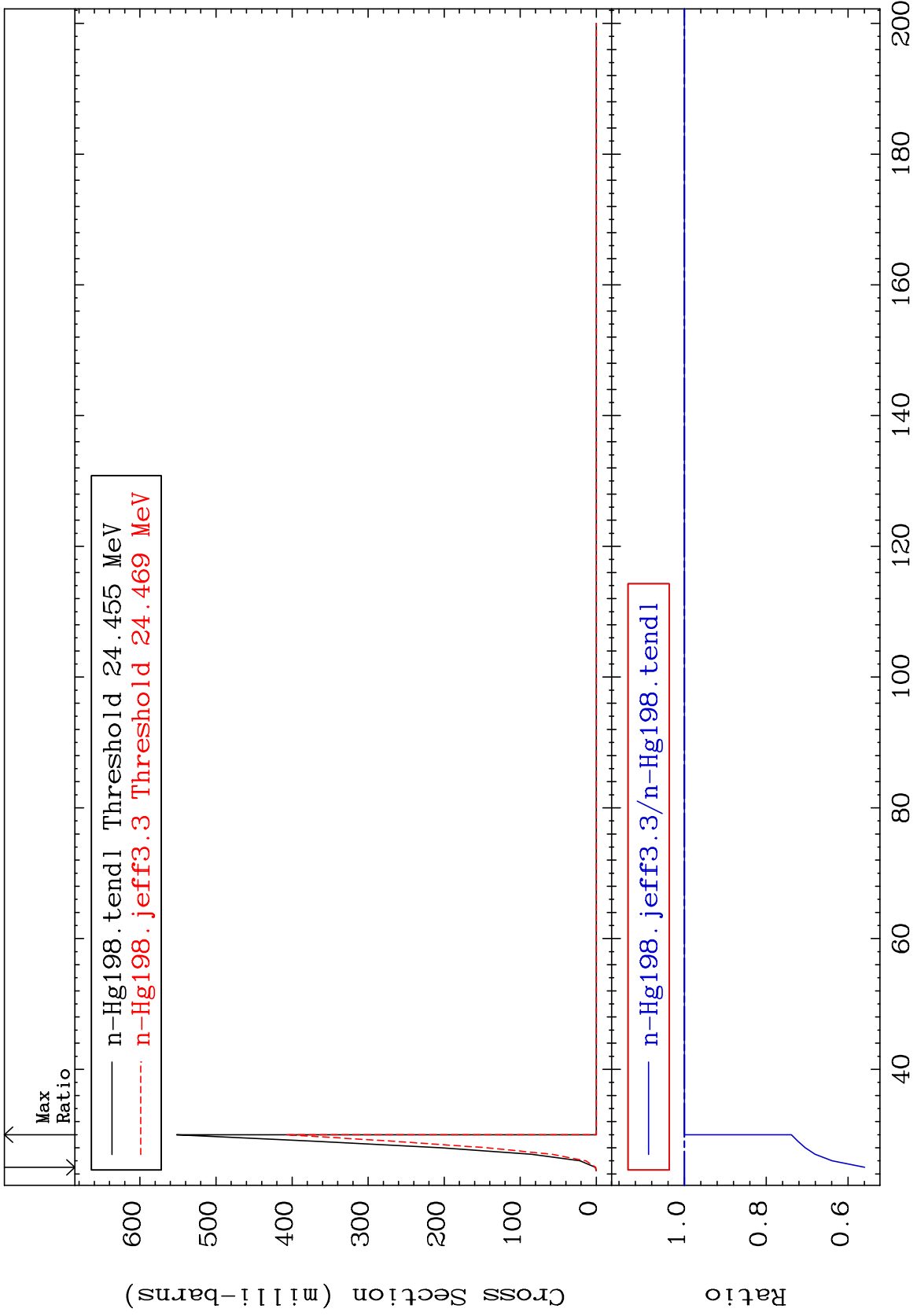


MAT 8031

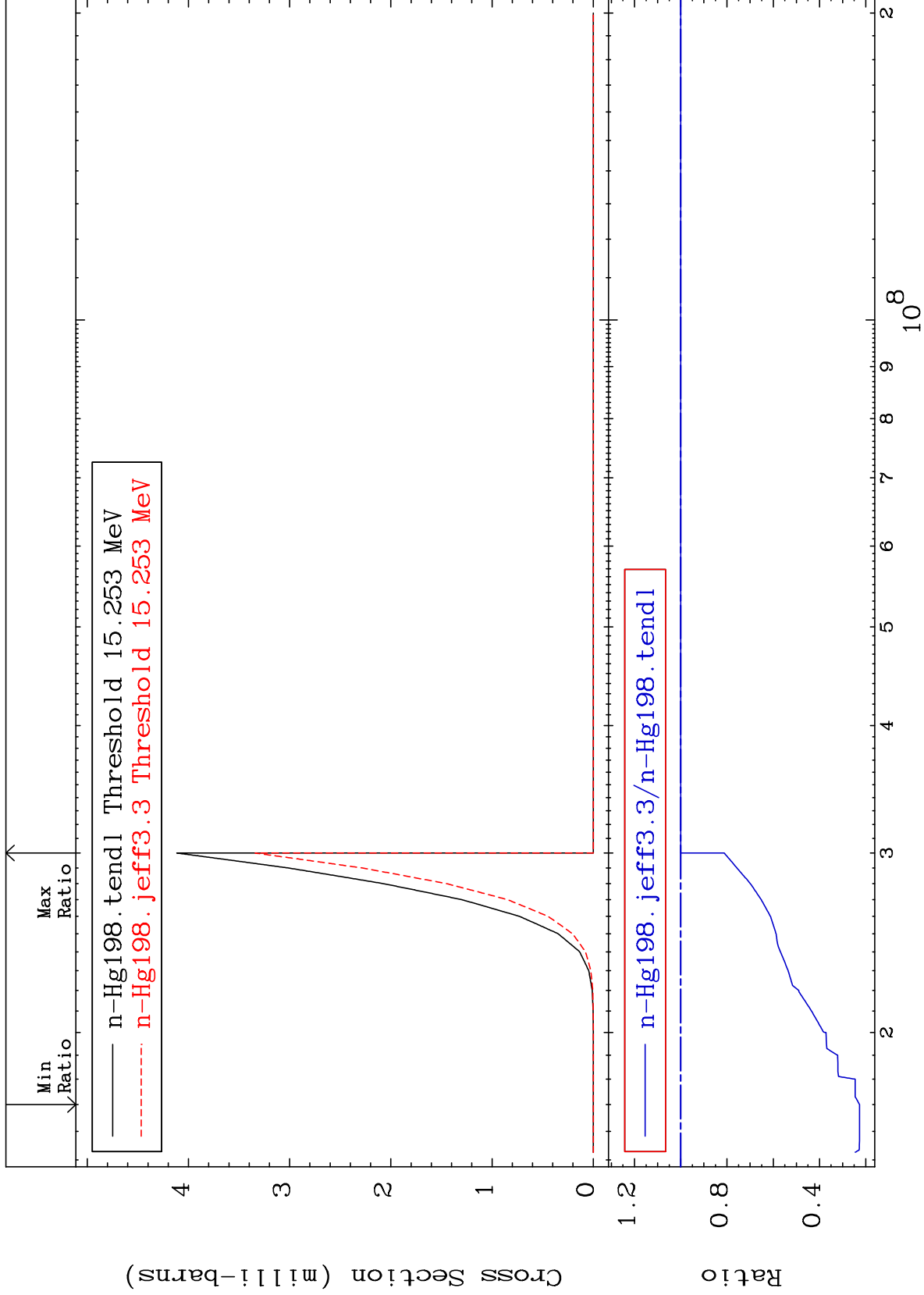
(n, 4n) : 80-Hg-195m3

80-Hg-198

Radionuclide Production Cross Section -44.04 To 0.000 %

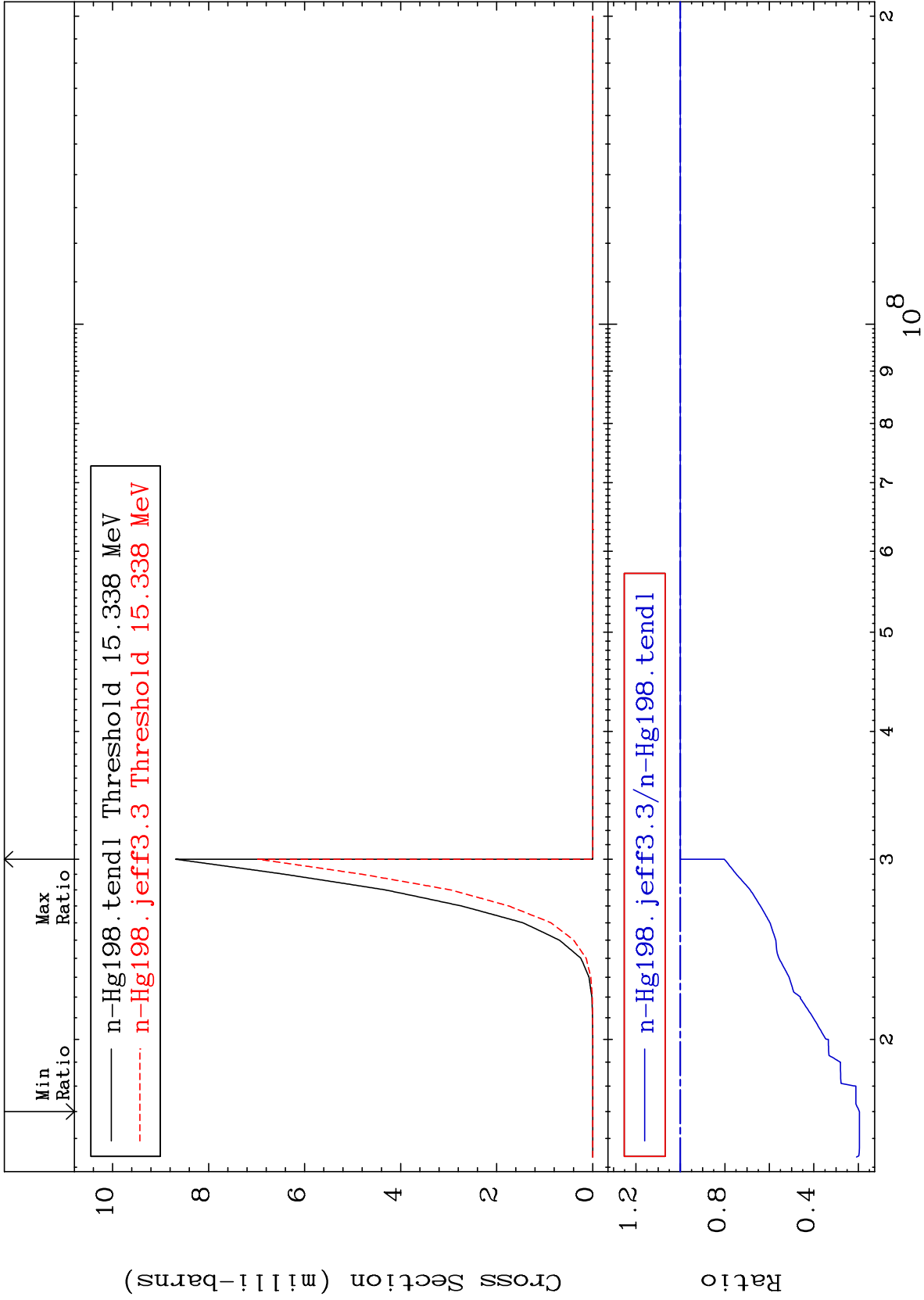


Radionuclide Production Cross Section -77.31 To 0.000 %





Radionuclide Production Cross Section -80.49 To 0.000 %



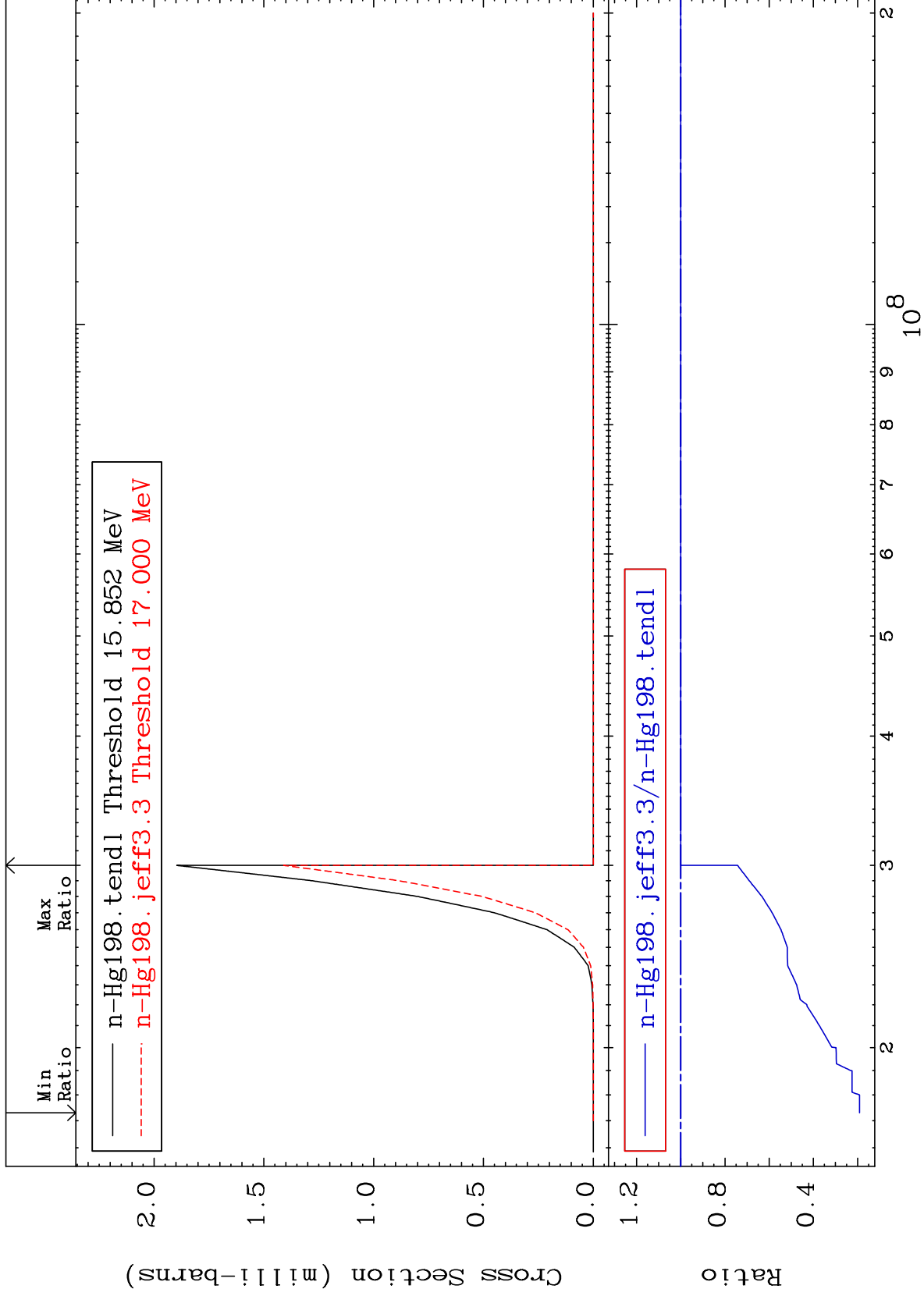
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-80.88 To 0.000 %



98

Incident Energy (eV)

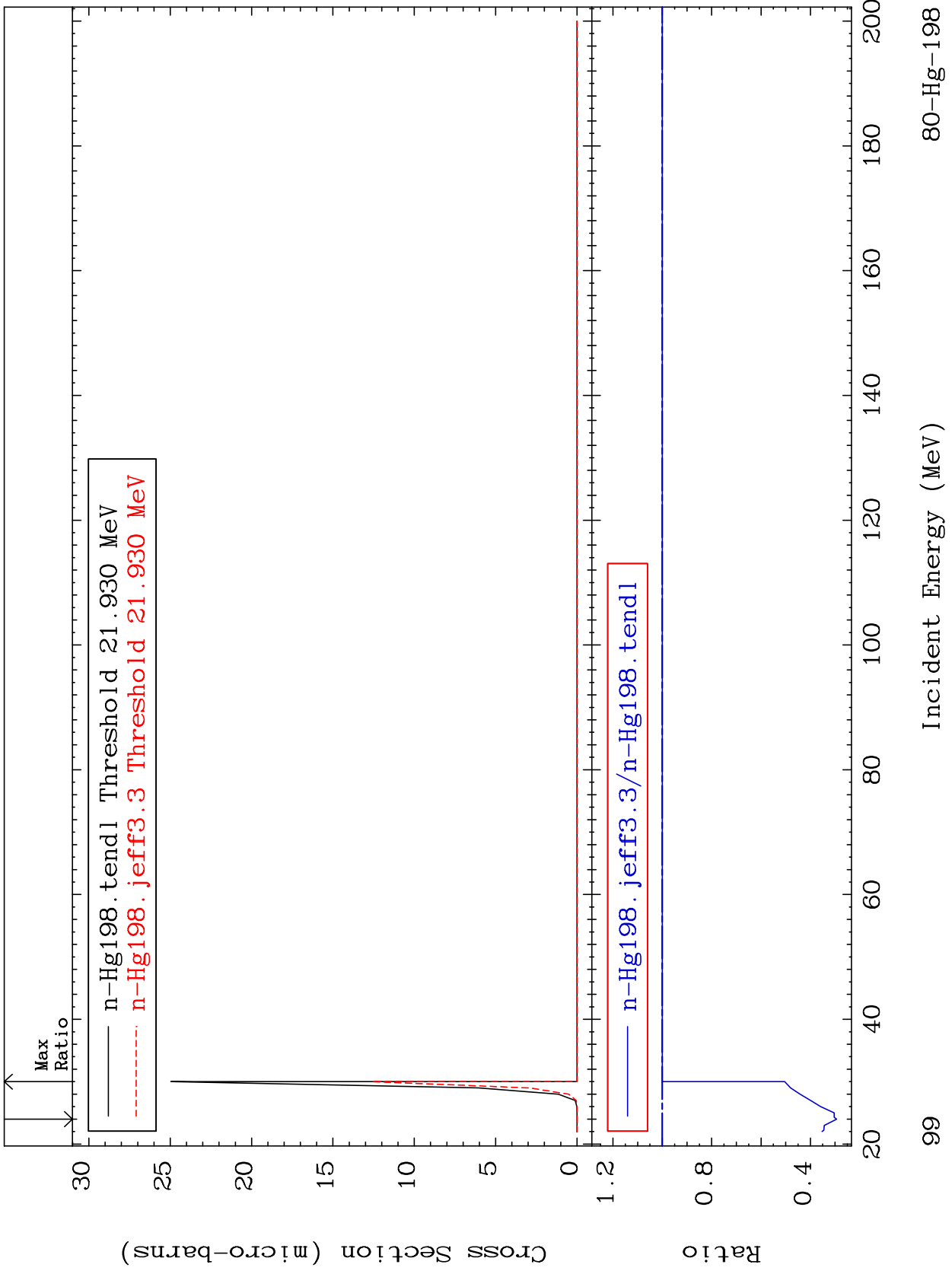
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -70.64 To 0.000 %



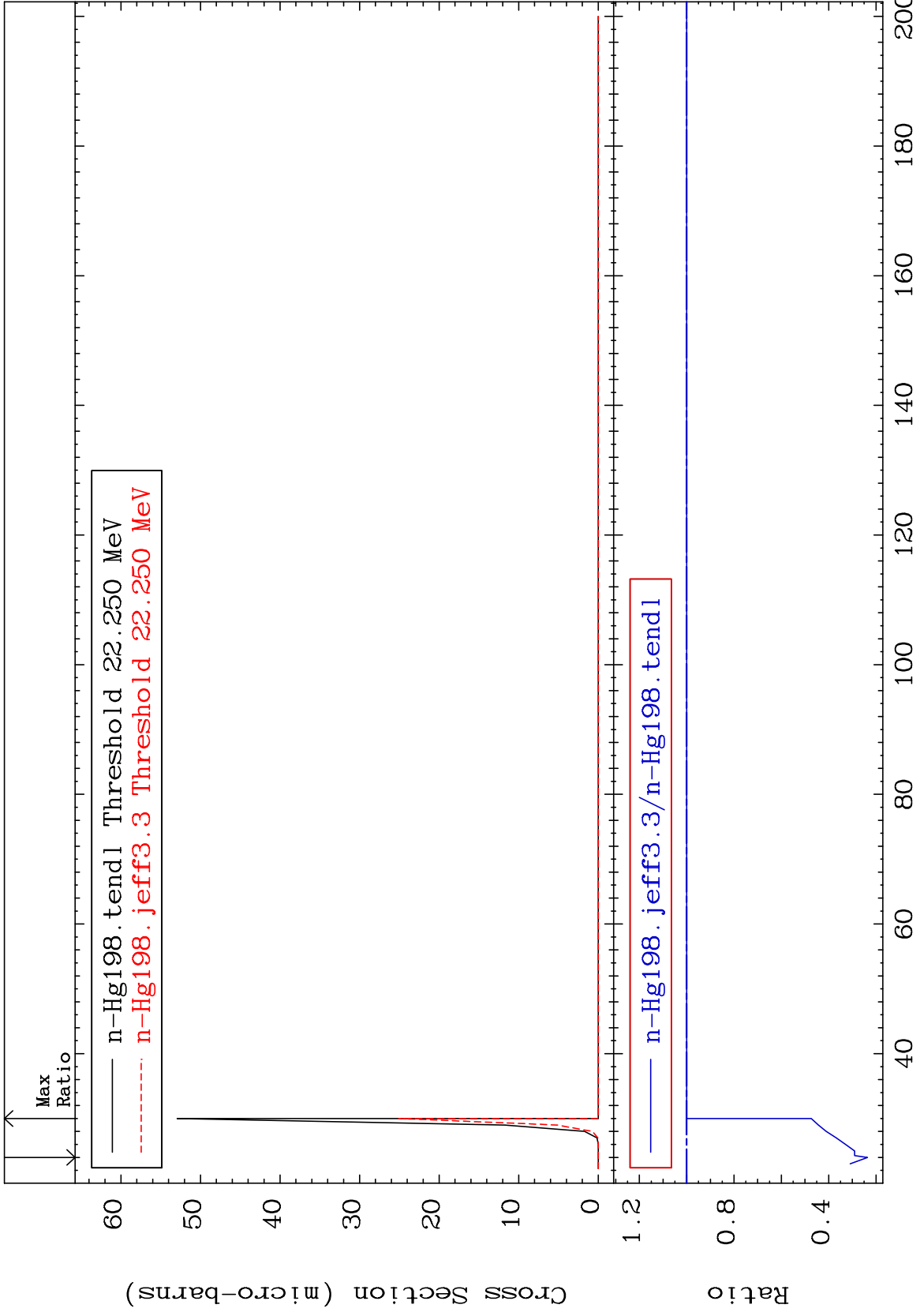
MAT 8031

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

80-Hg-198

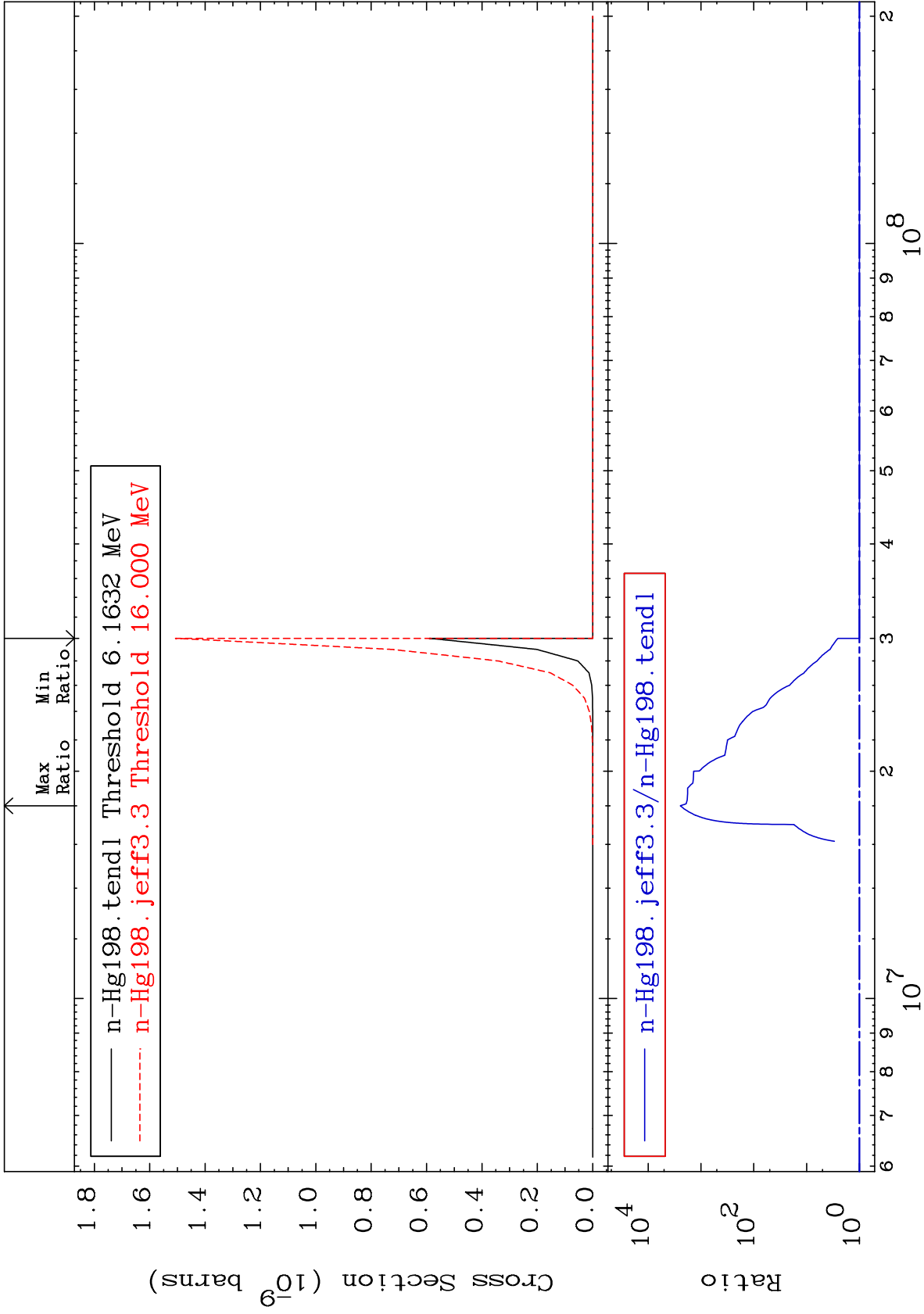
Radionuclide Production Cross Section

-76.40 To 0.000 %



MAT 8031

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



101

Incident Energy (eV)

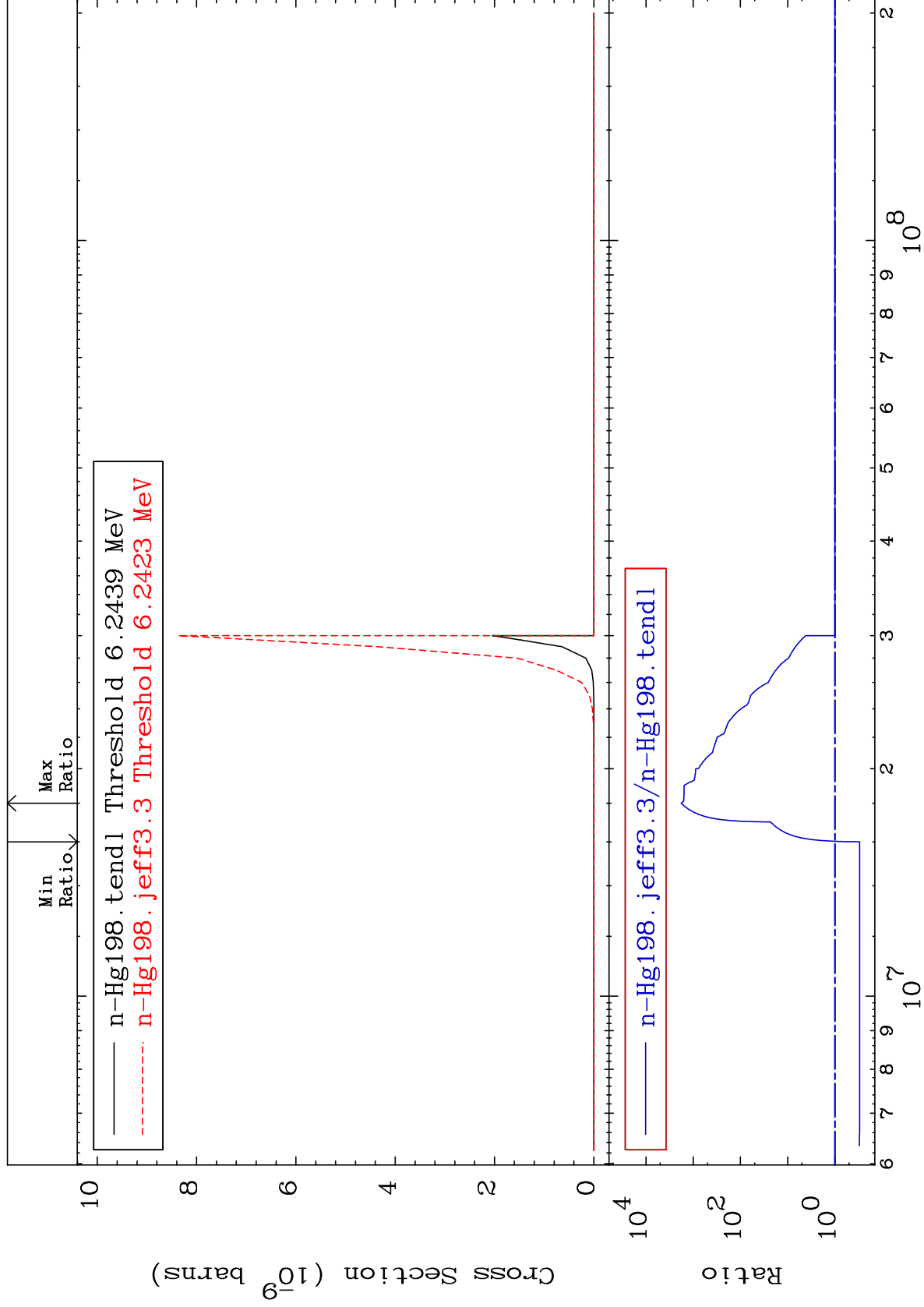
80-Hg-198

MAT 8031

(n, n') p  $\alpha$ :77-Ir-193m2

80-Hg-198

Radionuclide Production Cross Section -70.14 To 9999. %



102

Incident Energy (eV)

80-Hg-198

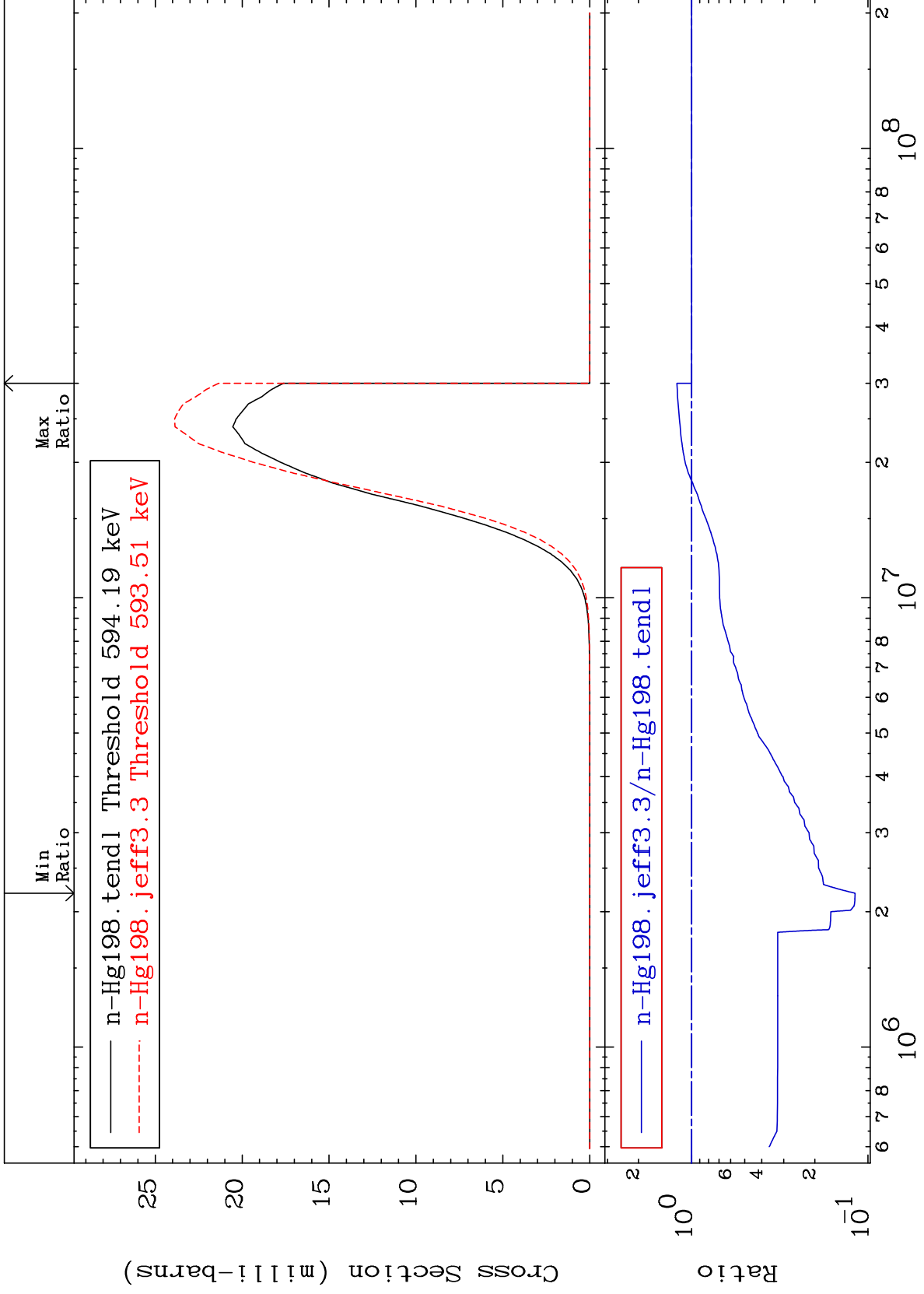
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-88.18 To 21.13 %



103

Incident Energy (eV)

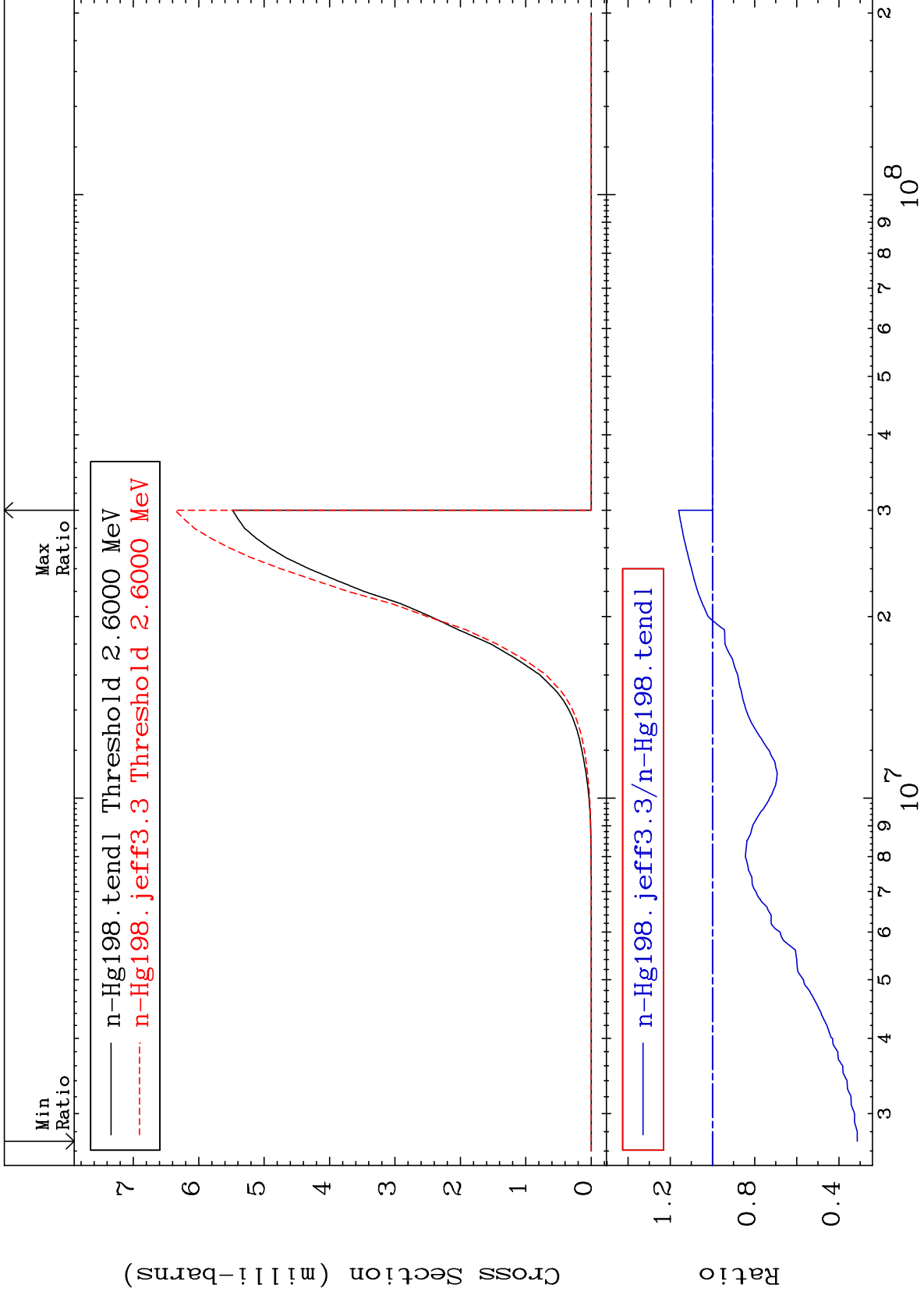
80-Hg-198

MAT 8031

(n, p) : 79-Au-198m10

80-Hg-198

Radionuclide Production Cross Section -68.66 To 16.03 %



104

80-Hg-198



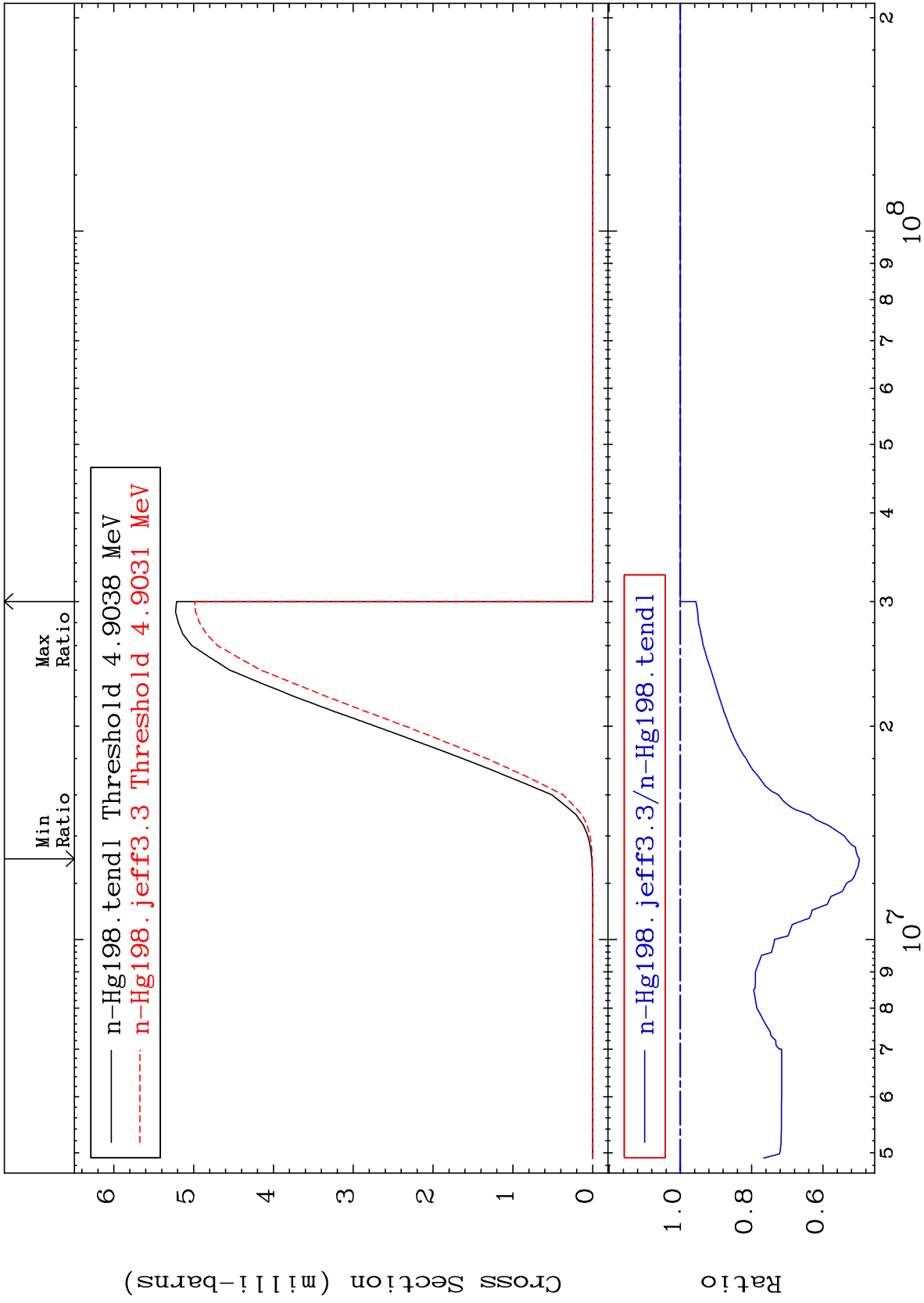
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-50.21 To 0.000 %



— n-Hg198.tendl Threshold 4.9038 MeV  
- - - n-Hg198.jeff3.3 Threshold 4.9031 MeV

— n-Hg198.jeff3.3/n-Hg198.tendl

105

Incident Energy (eV)

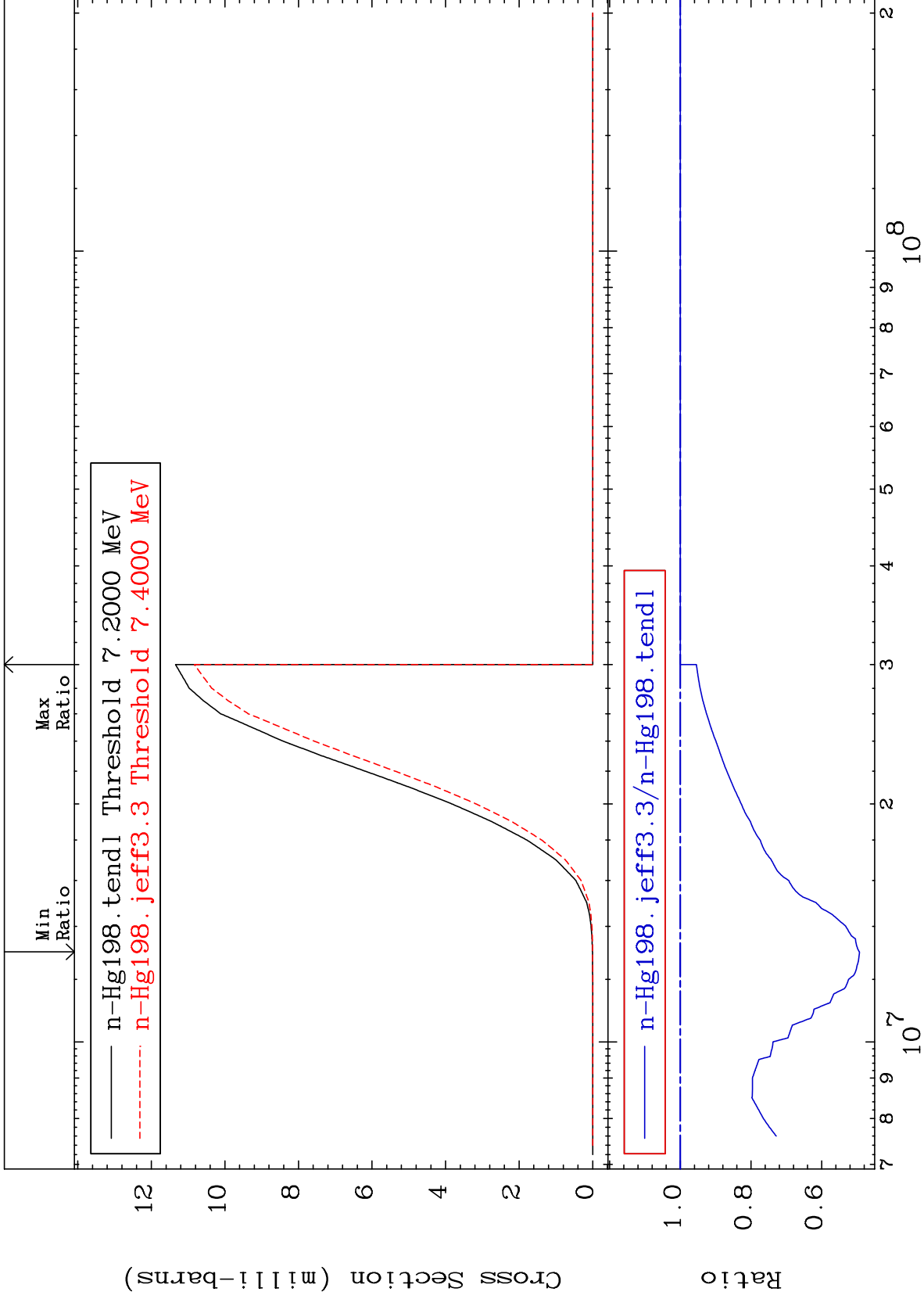
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -50.66 To 0.000 %



106

Incident Energy (eV)

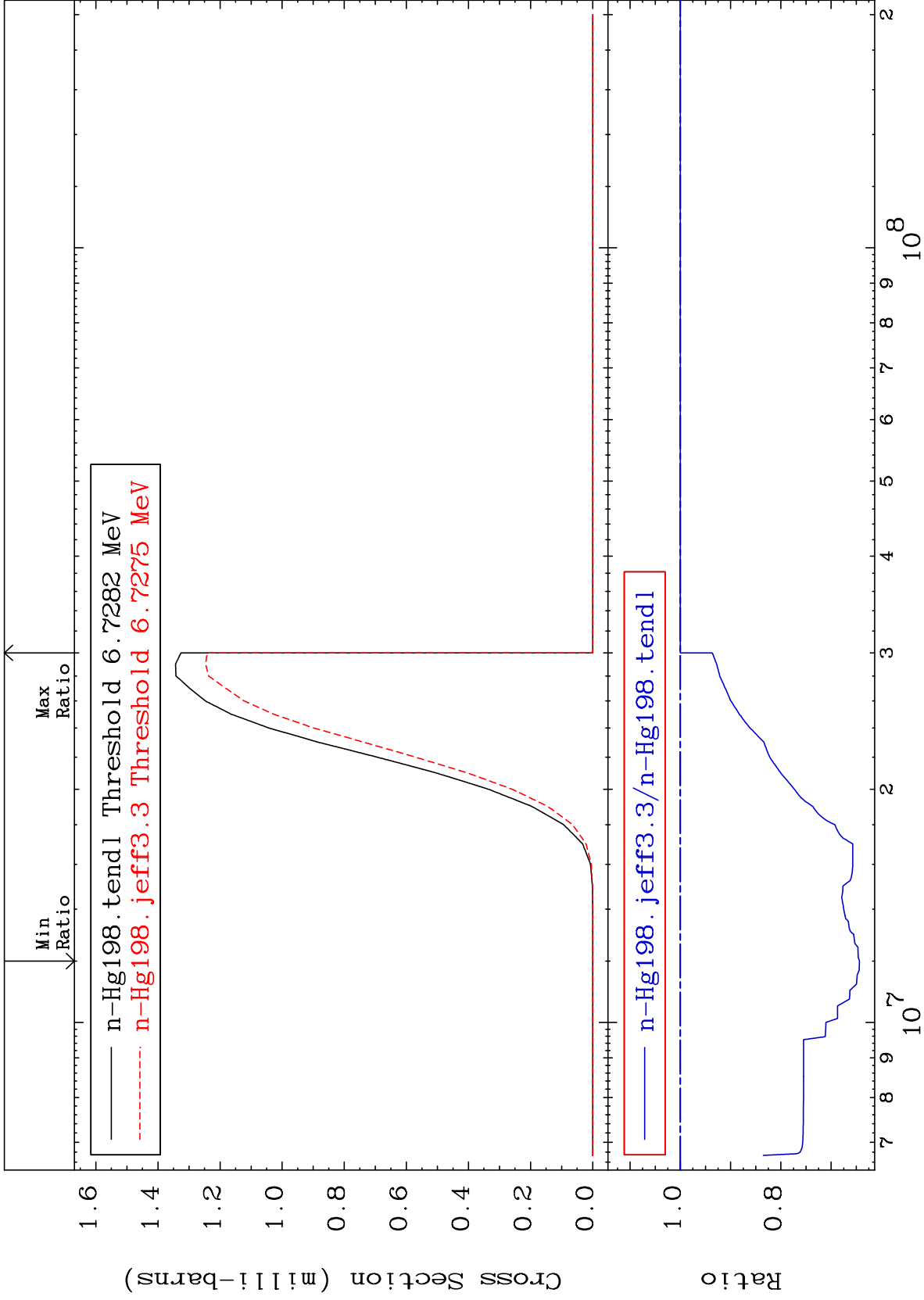
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -35.63 To 0.000 %



107

Incident Energy (eV)

80-Hg-198

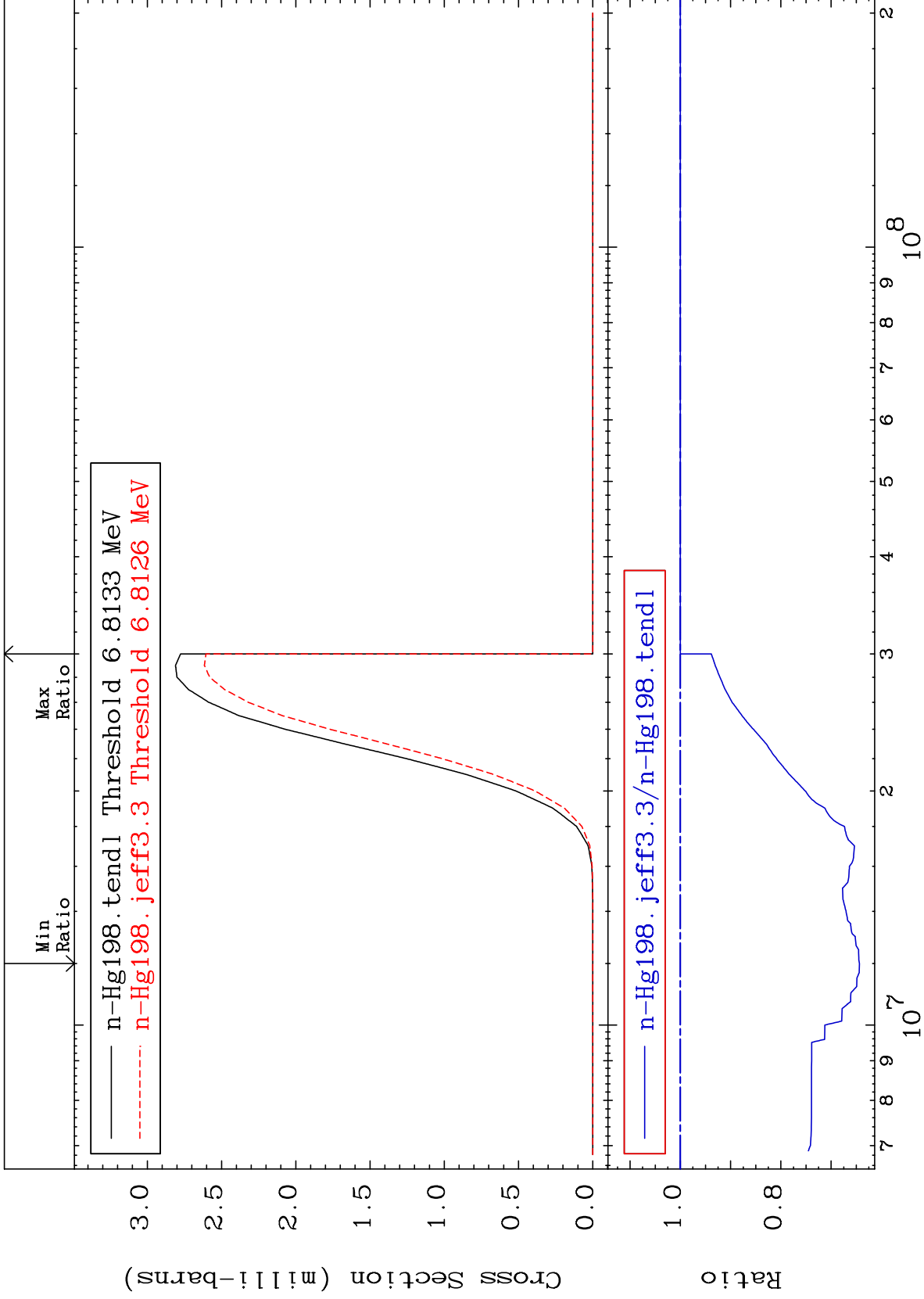
MAT 8031

(n, t) : 79-Au-196m3

80-Hg-198

Radionuclide Production Cross Section

-35.62 To 0.000 %



108

Incident Energy (eV)

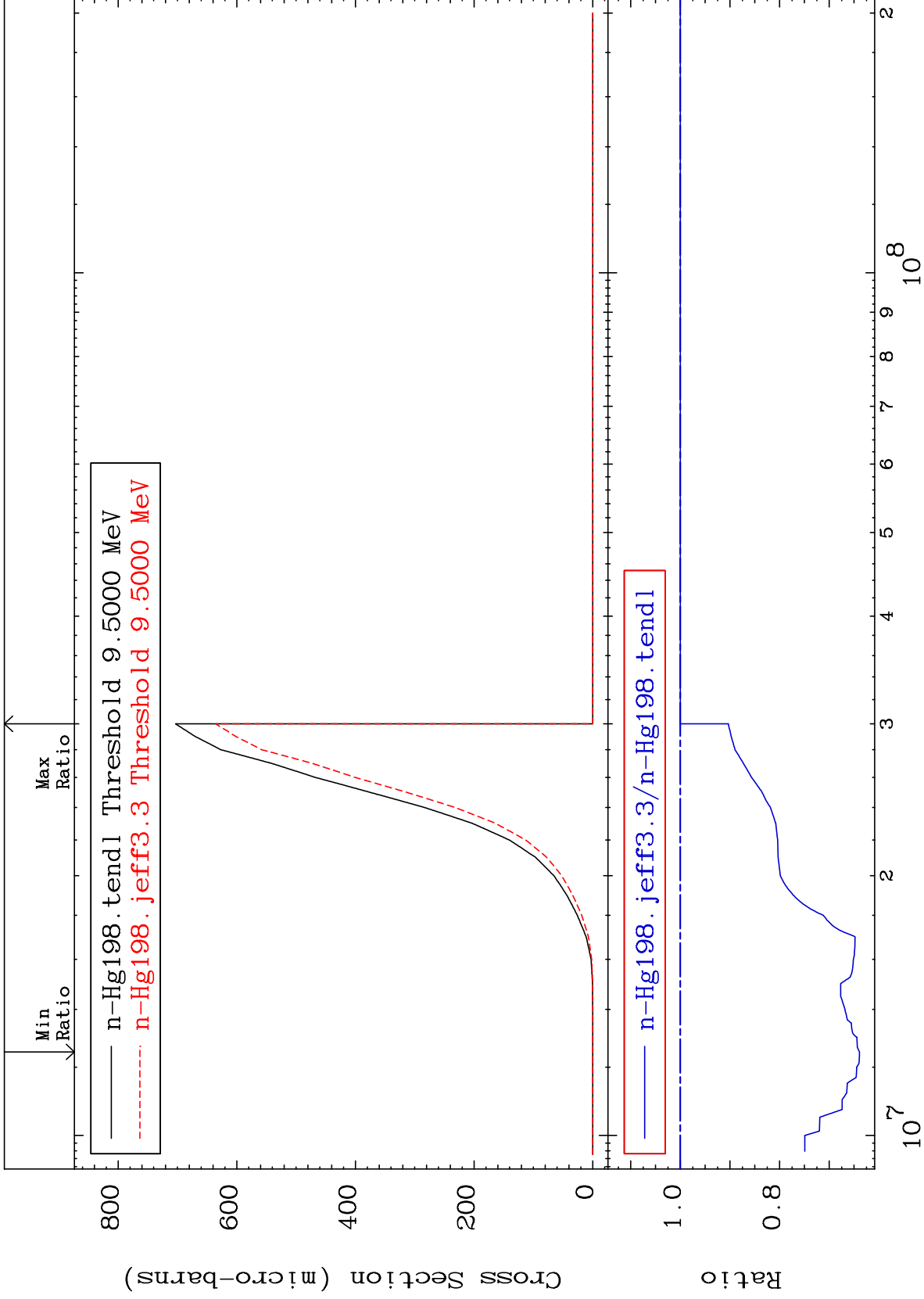
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -36.07 To 0.000 %



109

80-Hg-198

80-Hg-198

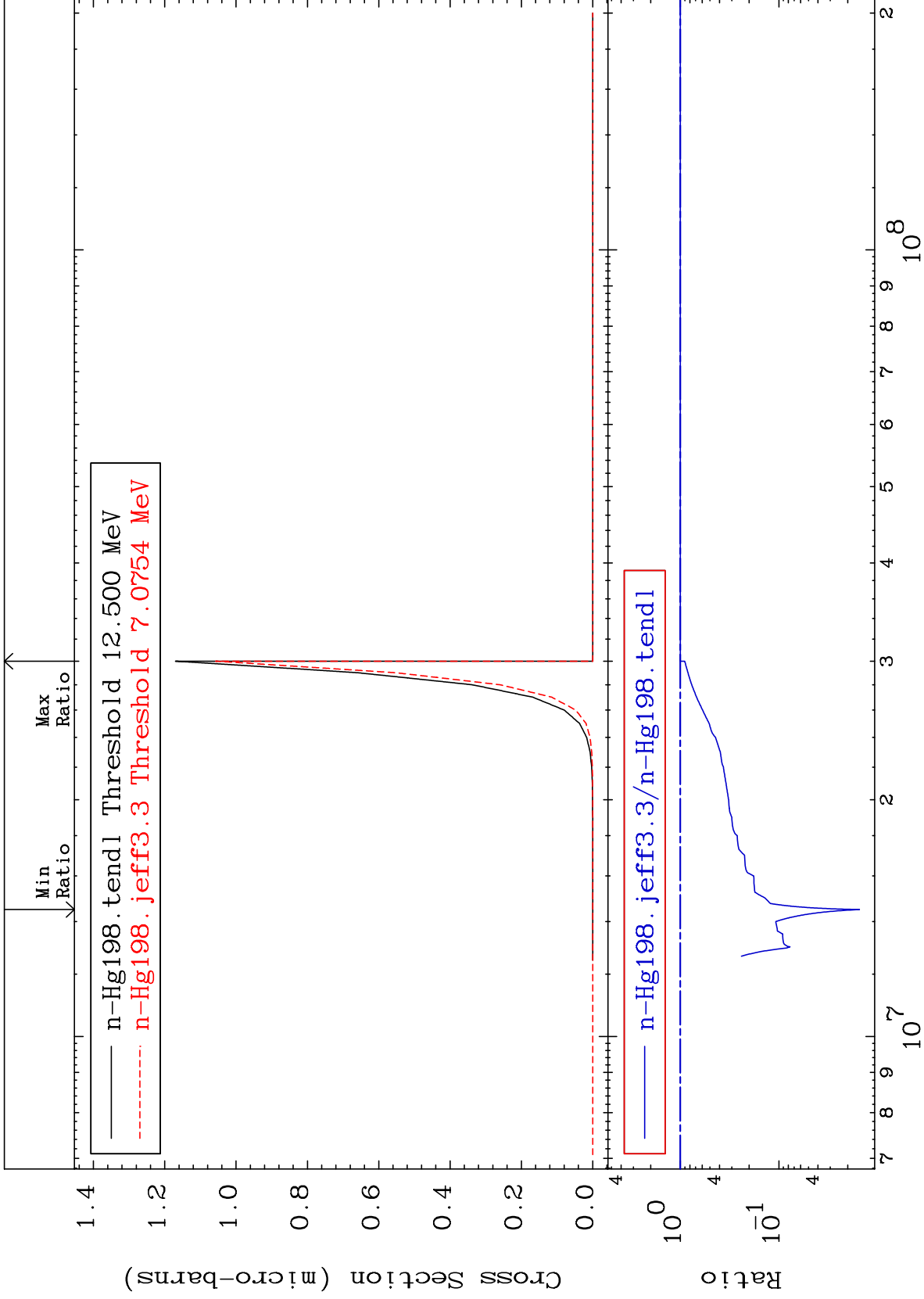
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-98.48 To 0.000 %



110

80-Hg-198

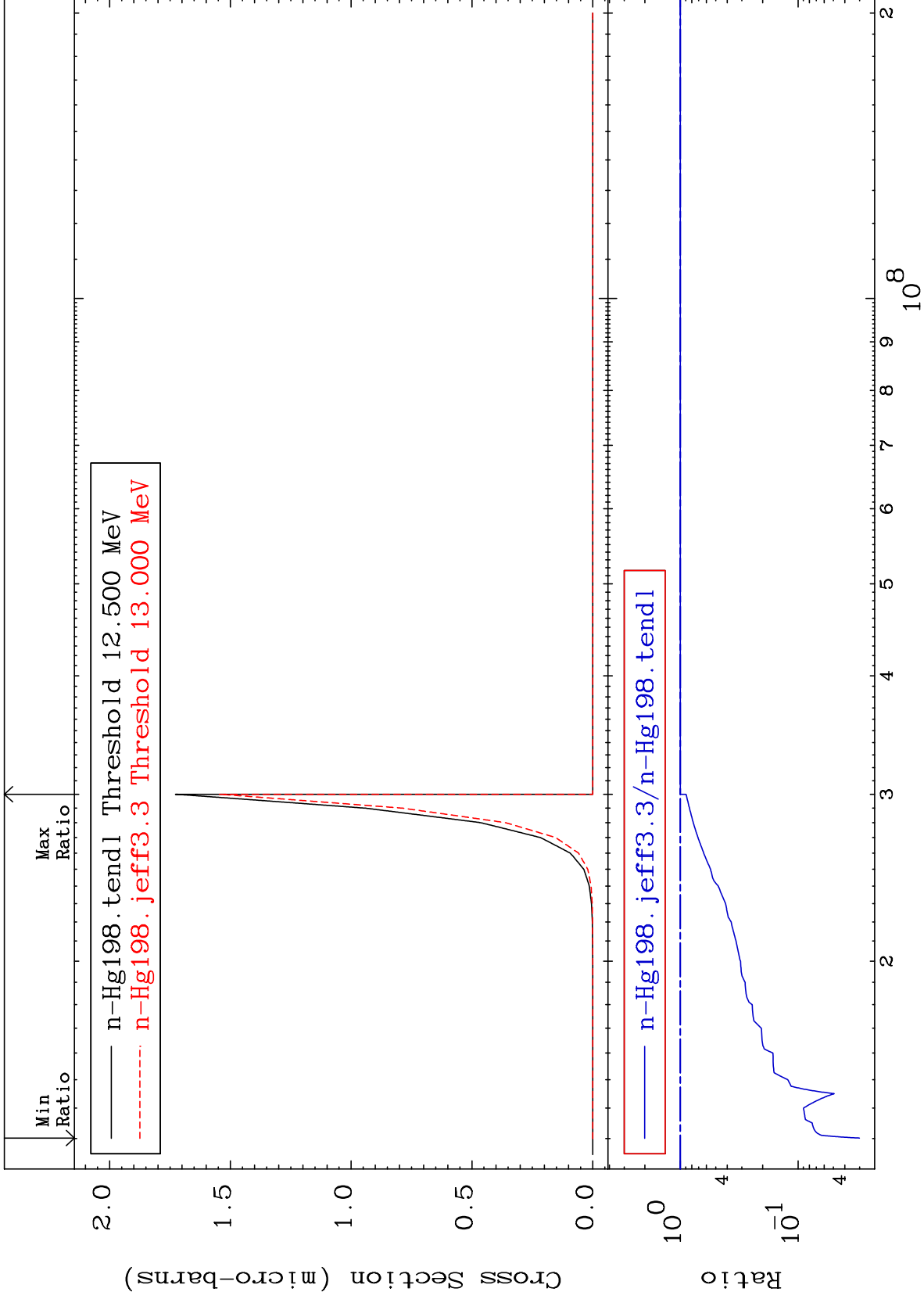
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -96.99 To 0.000 %



111

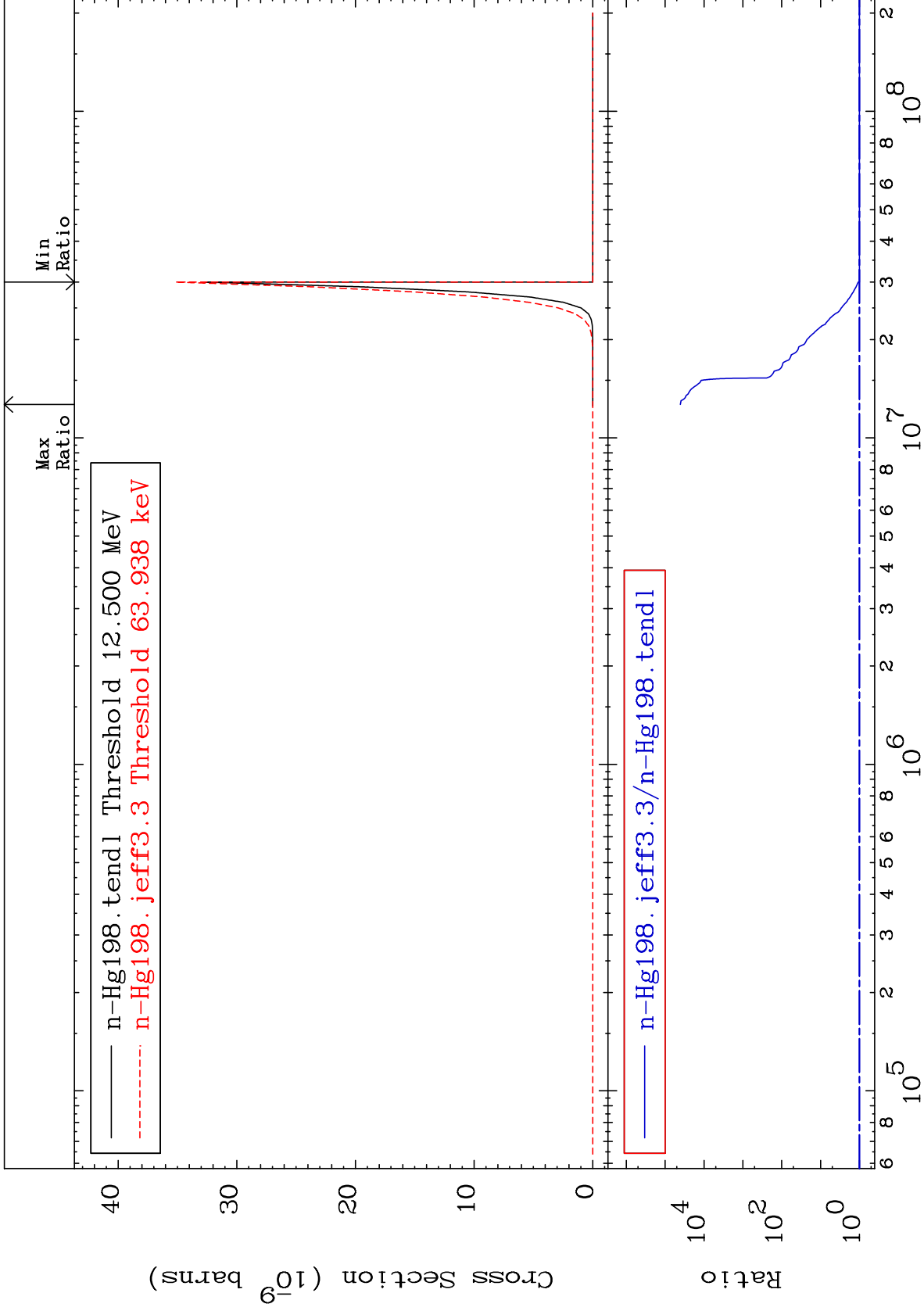
Incident Energy (eV)

80-Hg-198

MAT 8031

(n, p)  $\alpha$ : 77-Ir-194g  
Radionuclide Production Cross Section 0.000 To 9999. %

80-Hg-198



112

Incident Energy (eV)

80-Hg-198

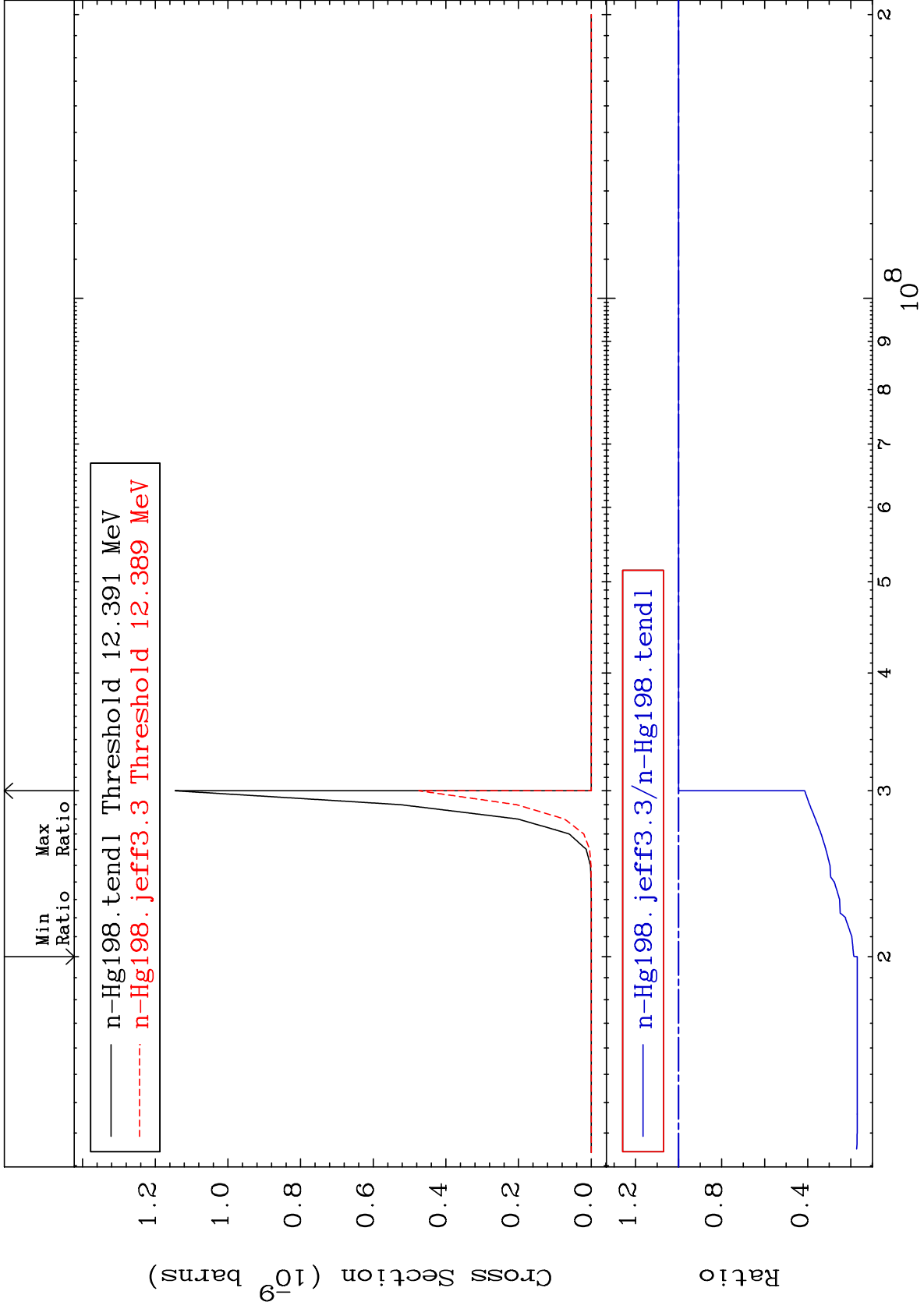


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -83.02 To 0.000 %



113

Incident Energy (eV)

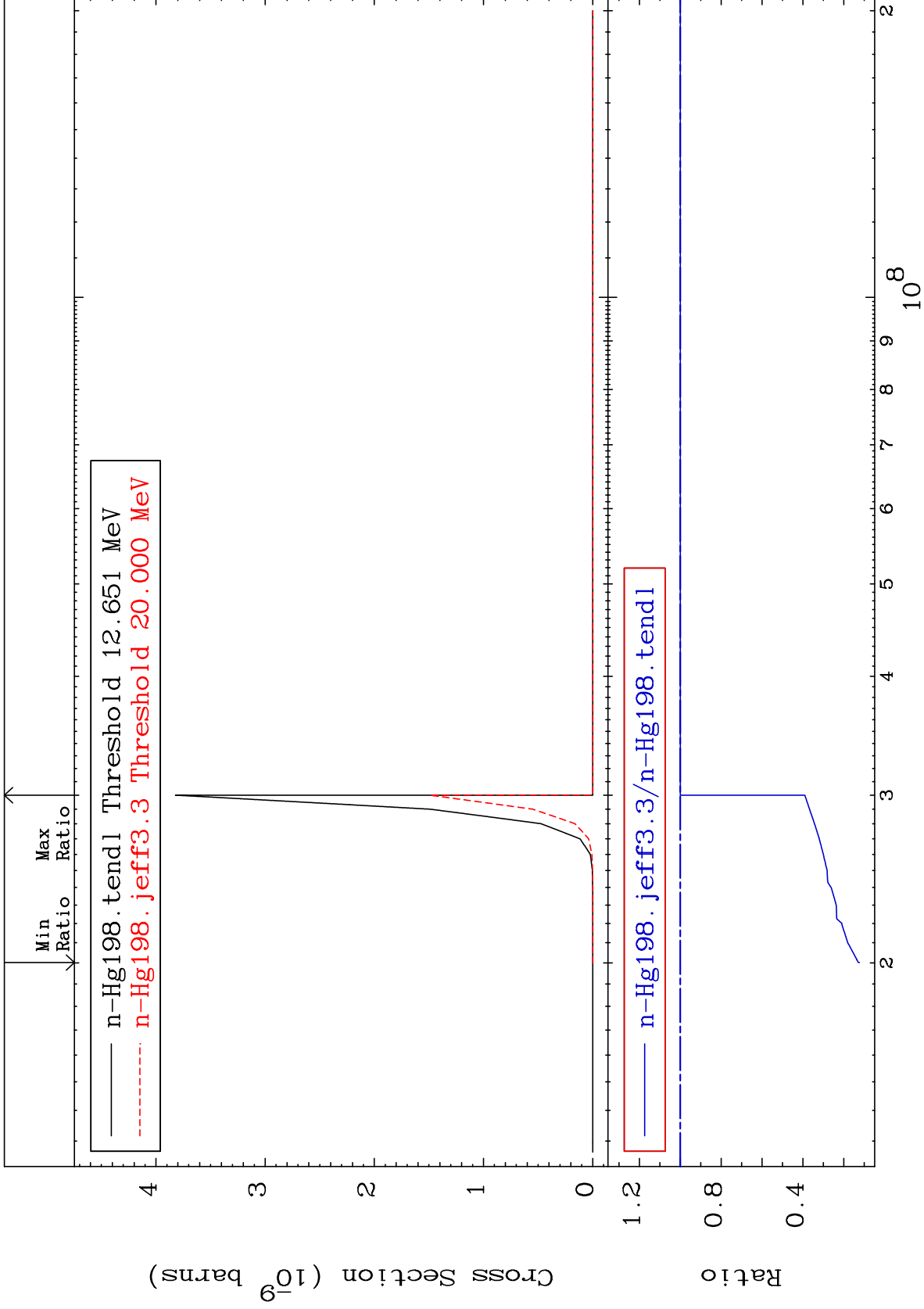
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -87.61 To 0.000 %



114

Incident Energy (eV)

80-Hg-198