

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 8031

Total

80-Hg-198

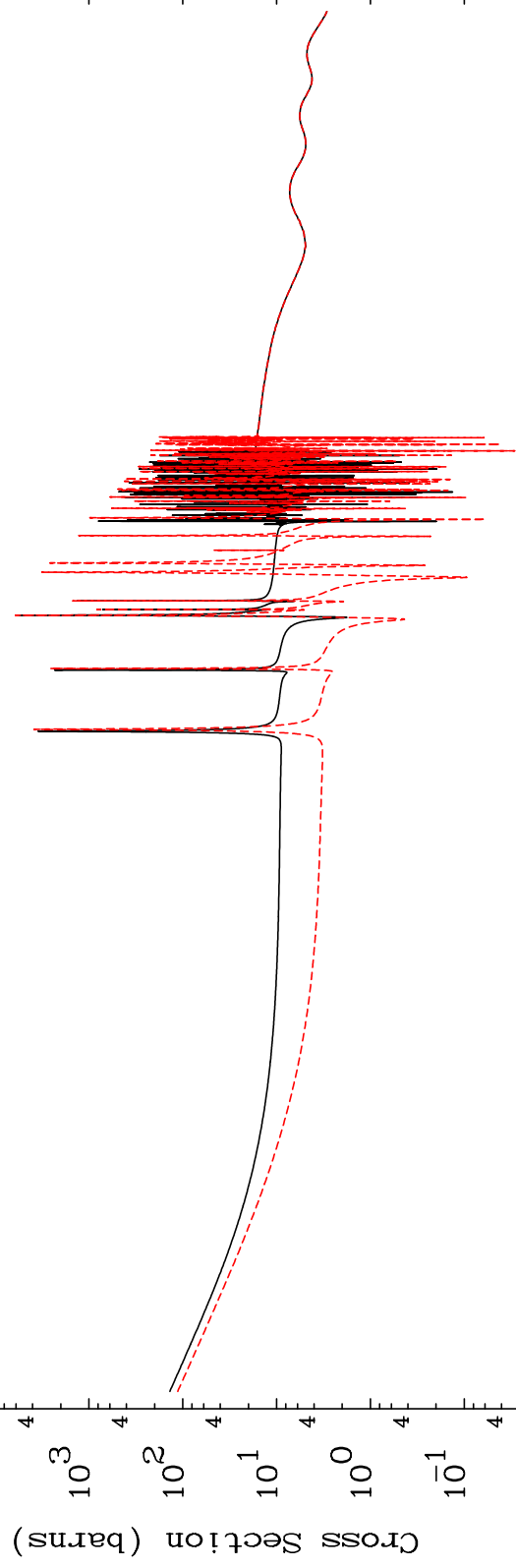
-99.95 To 9999. %

Cross Section

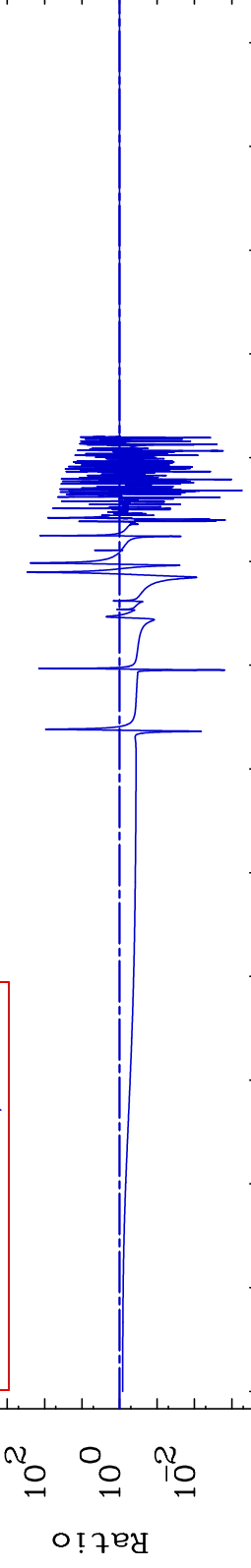
Max Ratio

Min Ratio

TENDL  
JEFF3.3



JEFF3.3/TENDL



Incident Energy (eV)

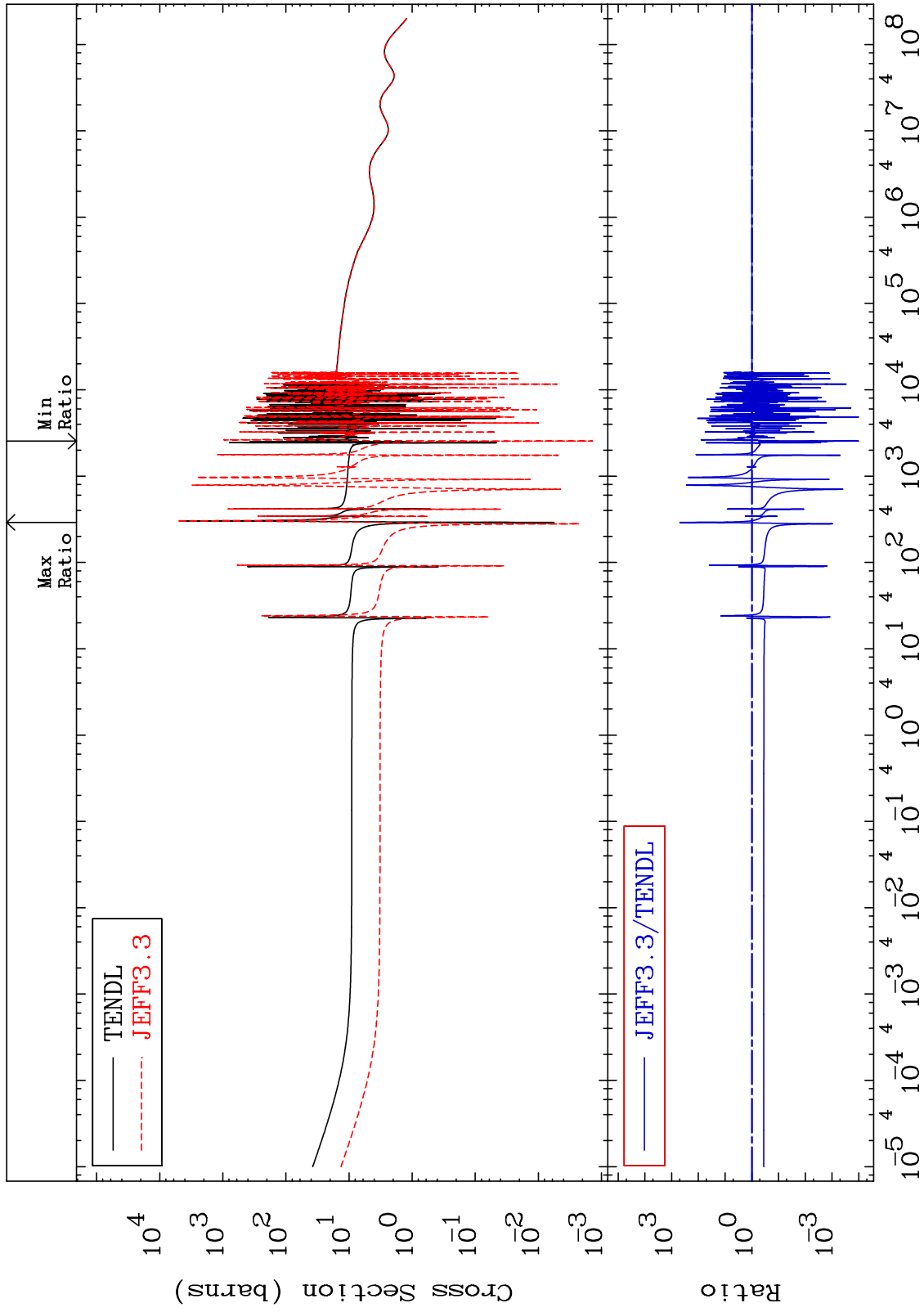
1

80-Hg-198

MAT 8031

Elastic  
Cross Section

80-Hg-198  
-99.99 To 9999. %

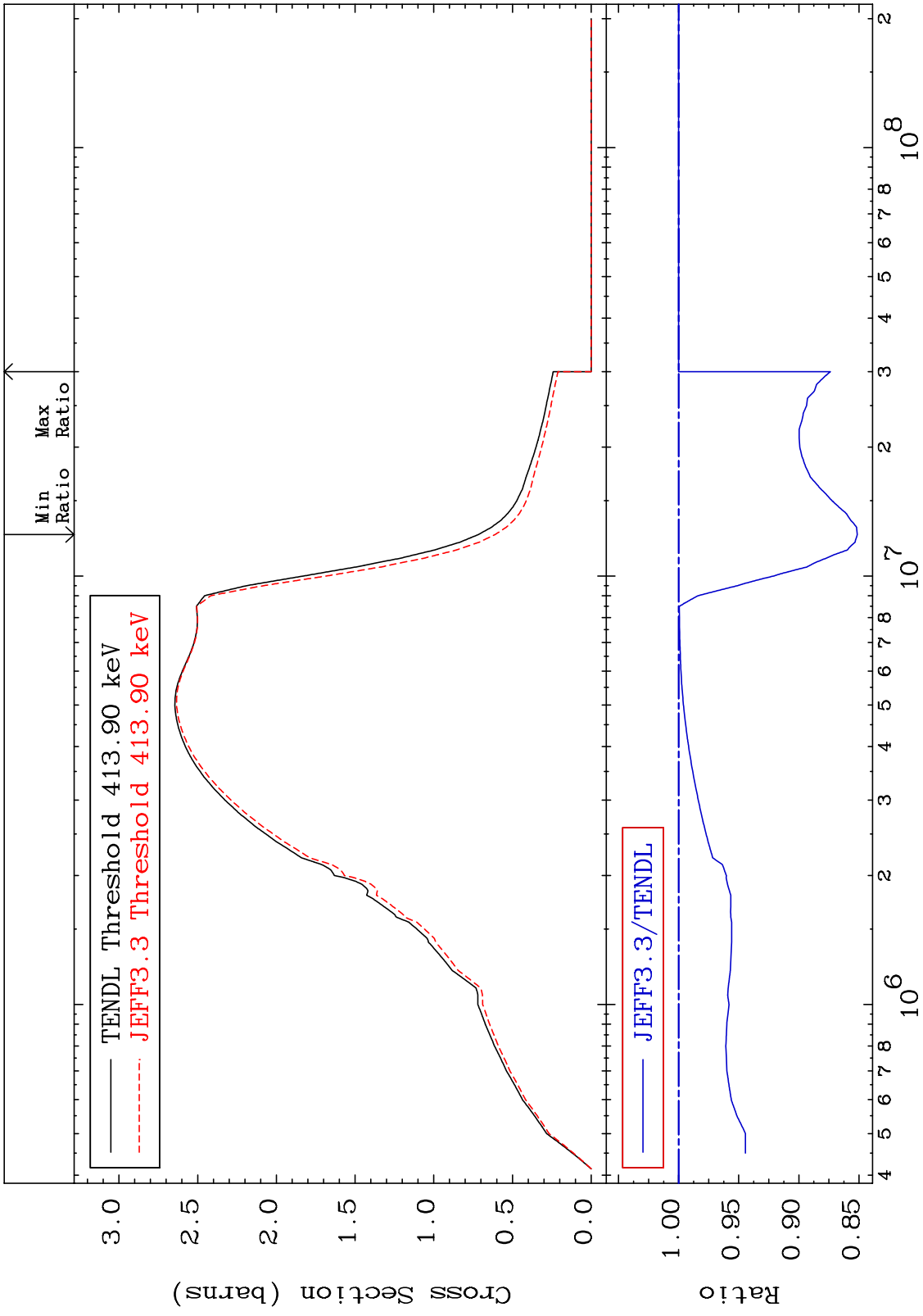


MAT 8031

80-Hg-198

-14.86 To 0.000 %

Inelastic  
Cross Section



— TENDL Threshold 413.90 keV  
- - - JEFF3.3 Threshold 413.90 keV

— JEFF3.3/TENDL

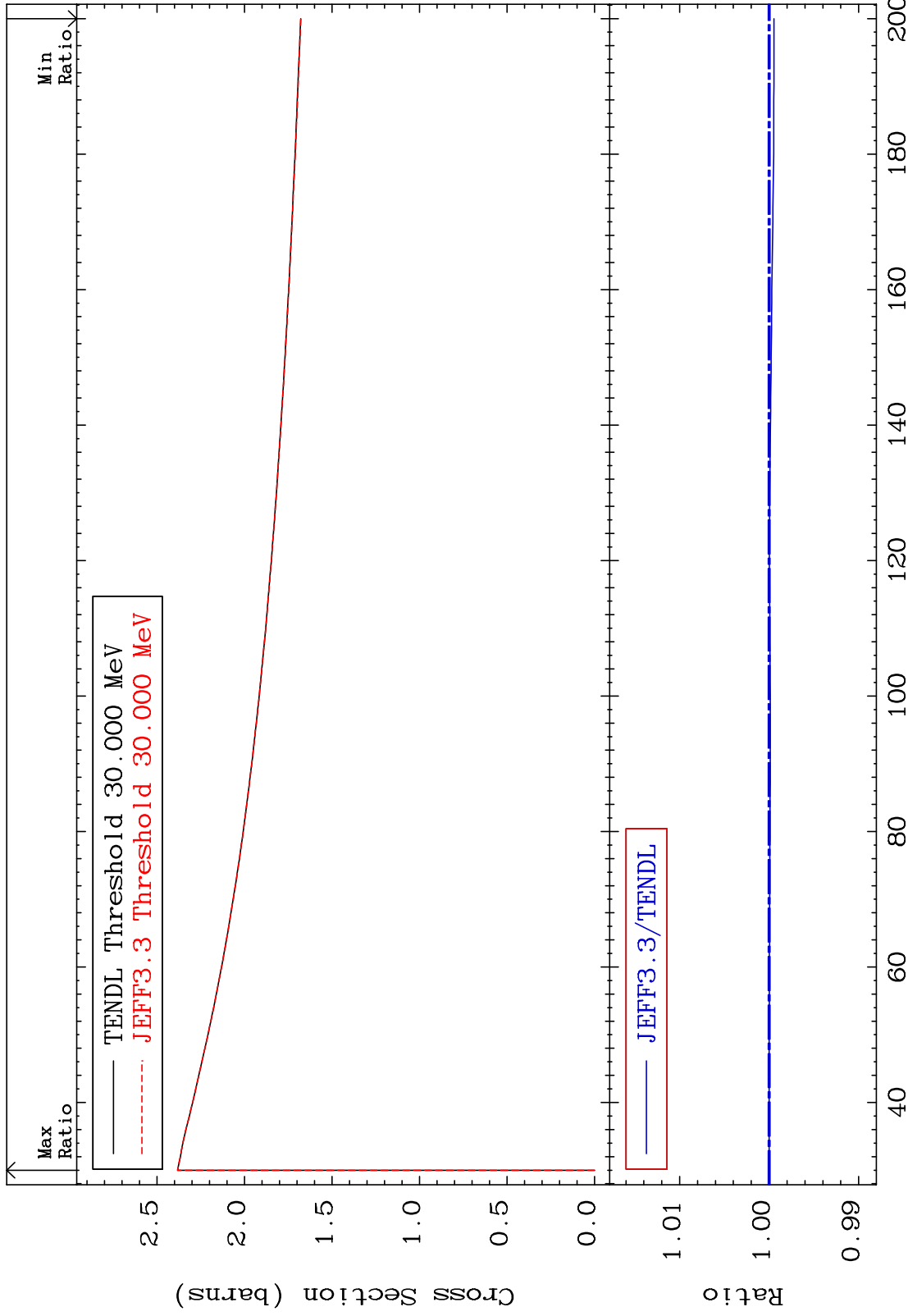
80-Hg-198

Incident Energy (eV)

MAT 8031

(n, remainder)  
Cross Section

80-Hg-198  
-0.055 To 0.000 %



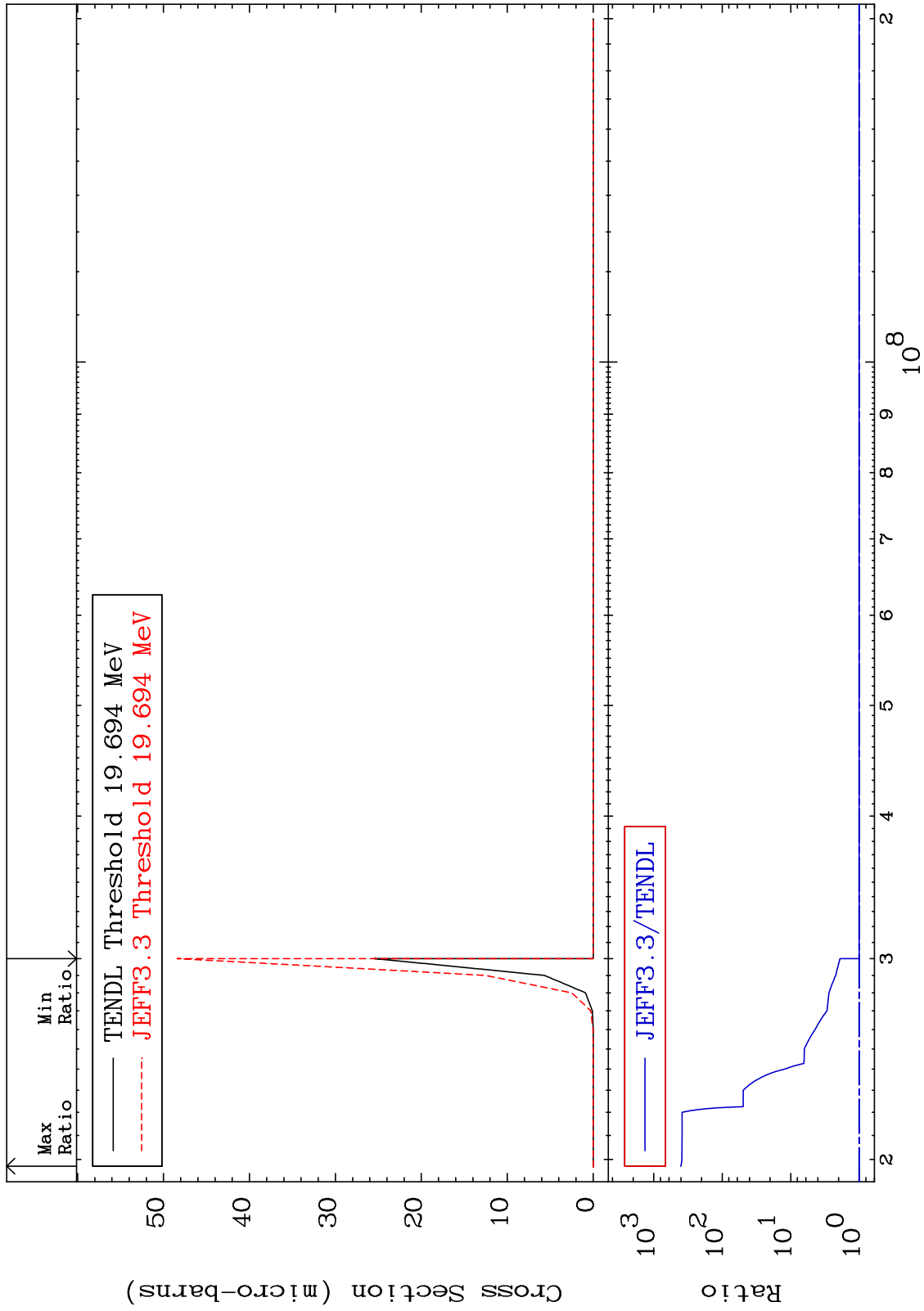
MAT 8031

(n,2n) d

80-Hg-198

Cross Section

0.000 To 9999. %



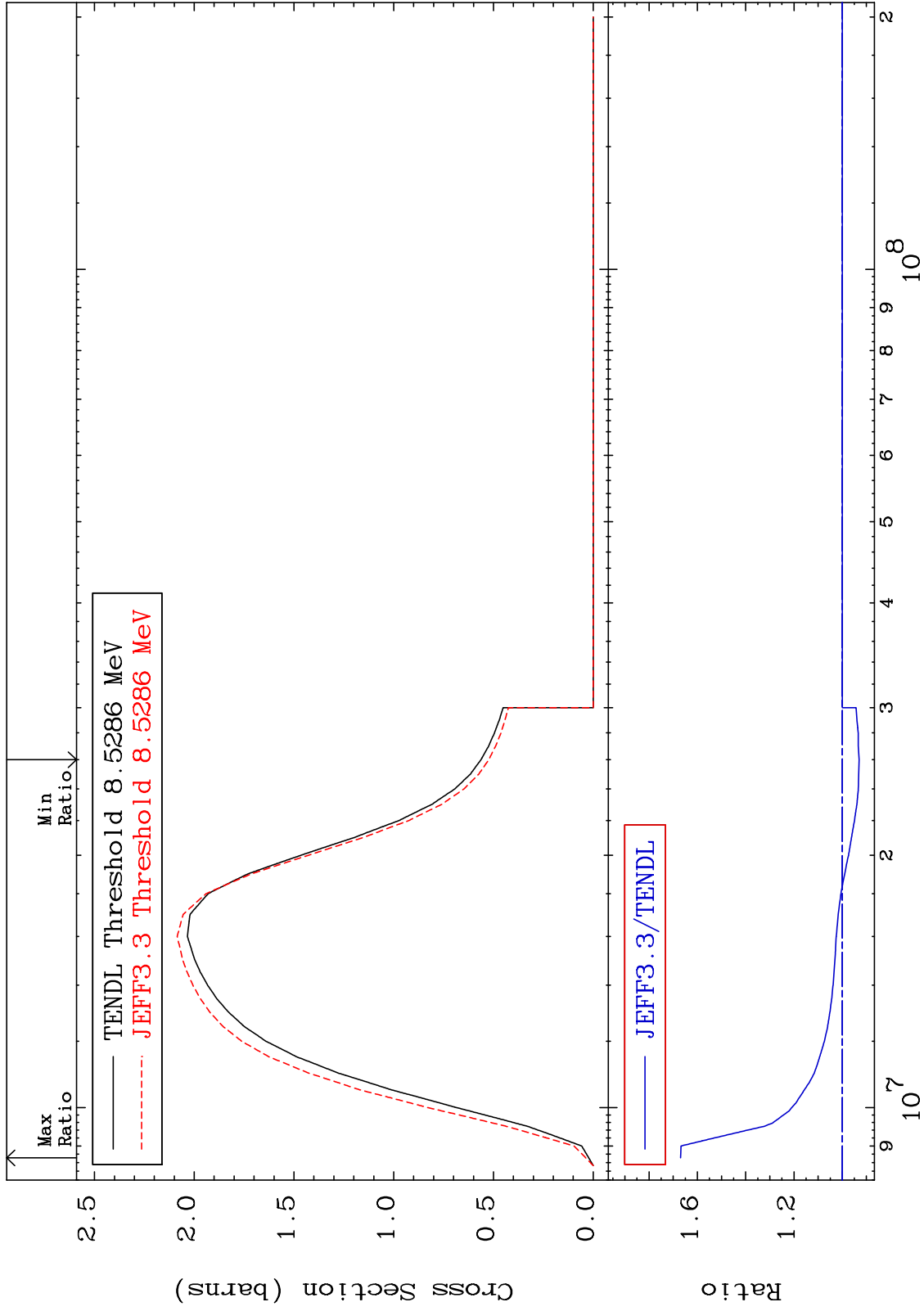
MAT 8031

(n,2n)

80-Hg-198

Cross Section

-6.995 To 66.94 %



80-Hg-198

Incident Energy (eV)

6

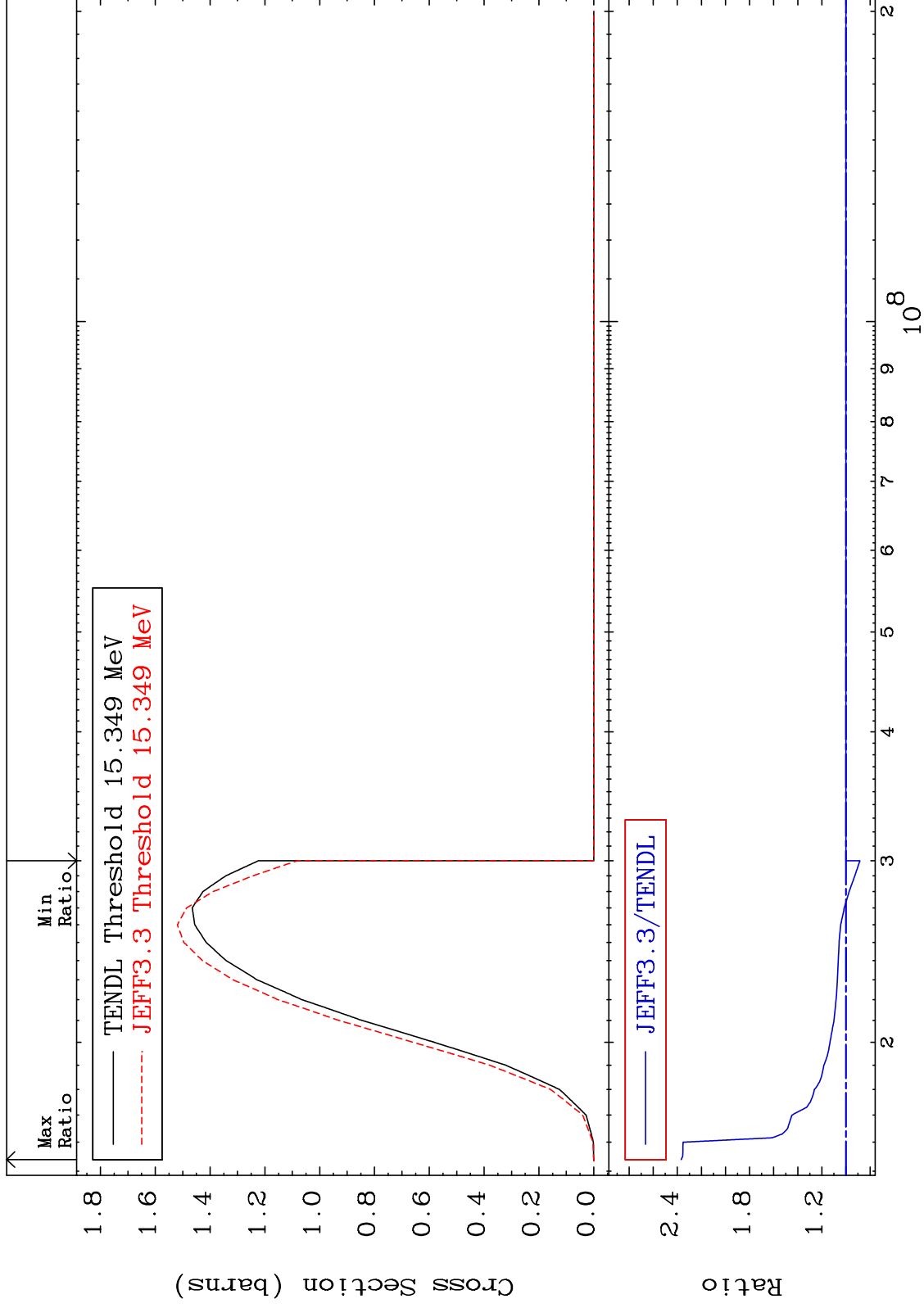
MAT 8031

(n, 3n)

80-Hg-198

Cross Section

-11.60 To 136.8 %



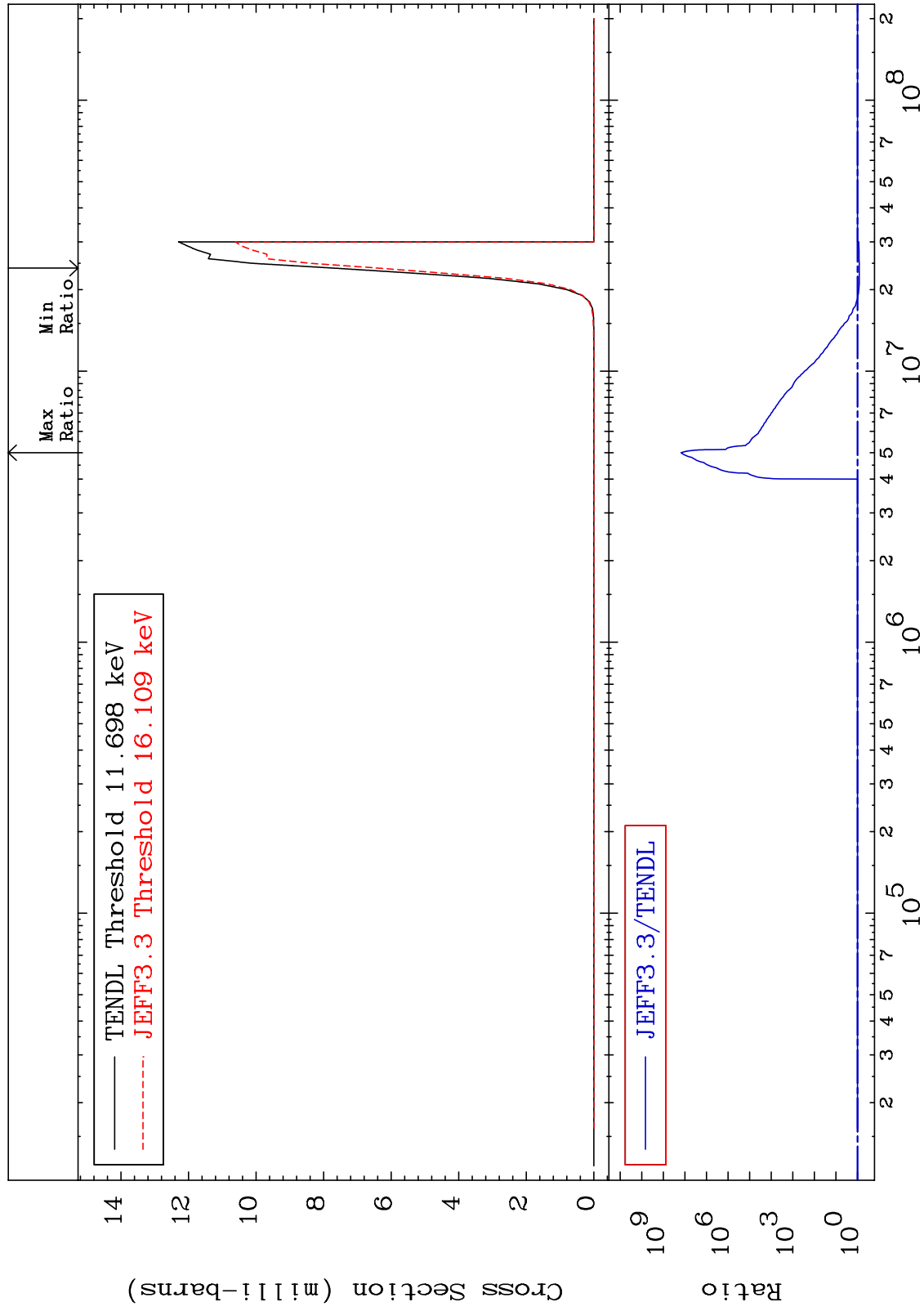


MAT 8031

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

80-Hg-198

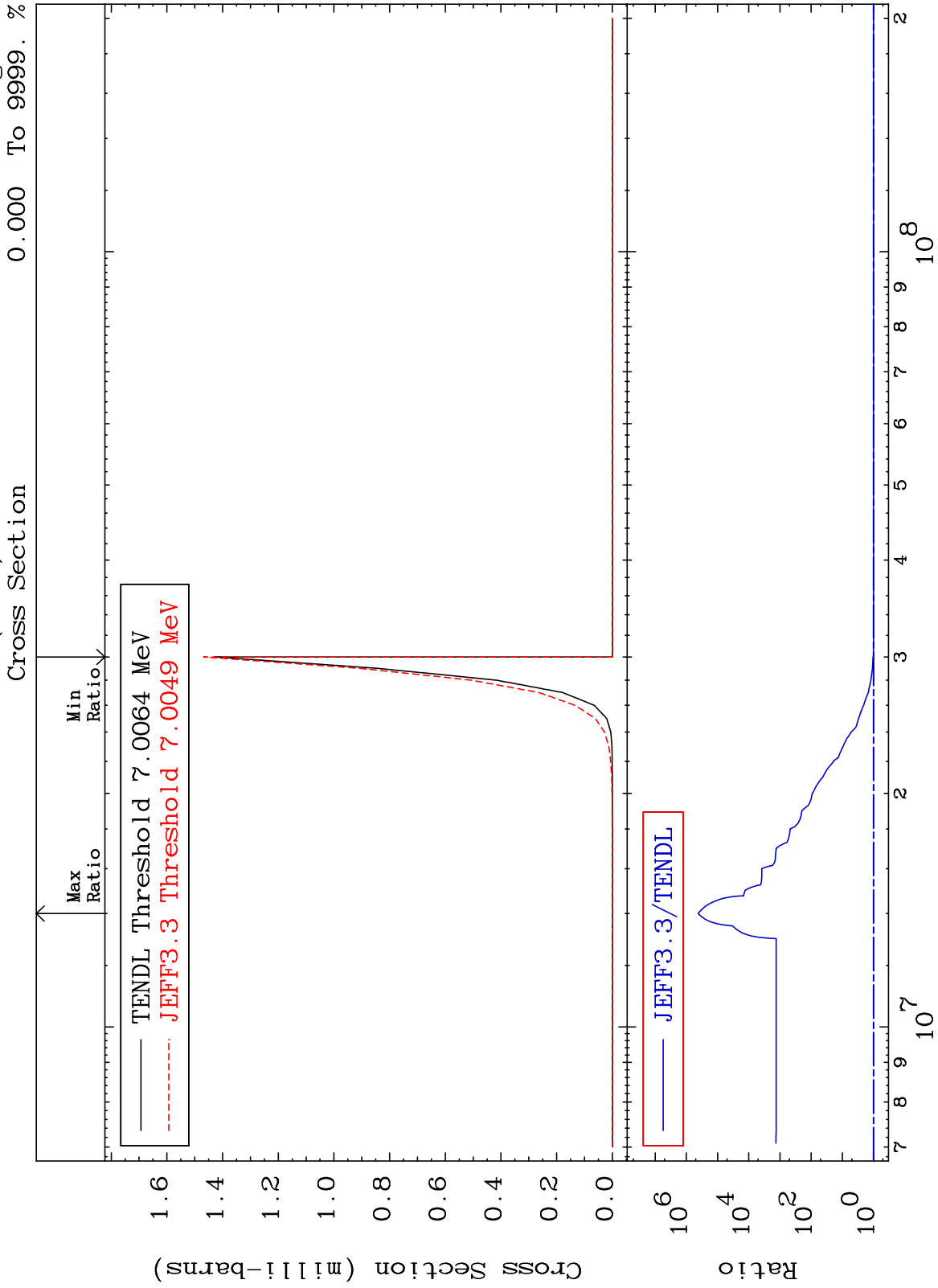
-17.18 To 9999. %



MAT 8031

(n,2n)  $\alpha$

80-Hg-198  
To 9999. %  
0.000



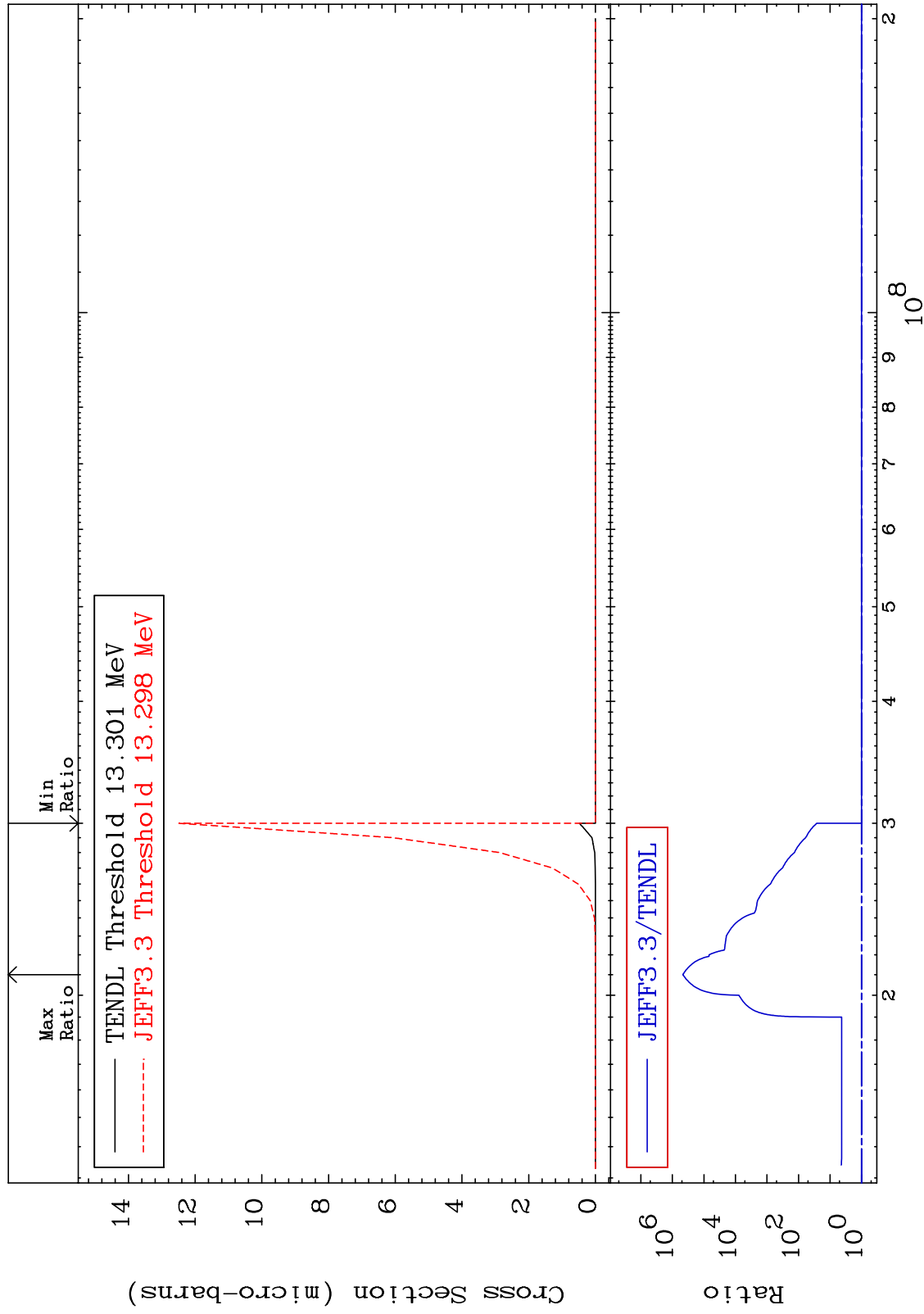
MAT 8031

(n,3n)  $\alpha$

80-Hg-198

Cross Section

0.000 To 9999. %



10

Incident Energy (eV)

80-Hg-198

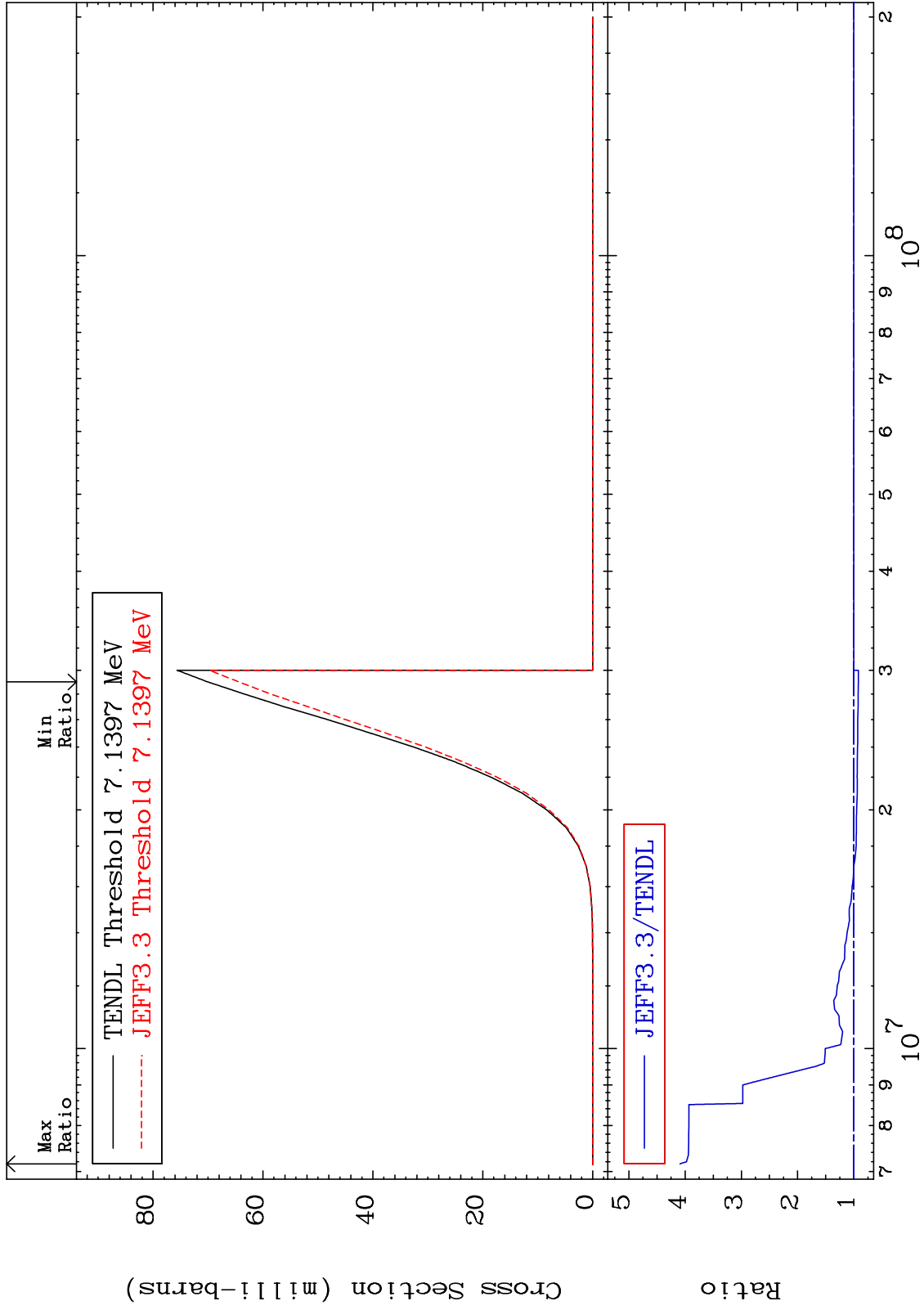
MAT 8031

(n,n') p

80-Hg-198

Cross Section

-8.068 To 309.0 %



MAT 8031

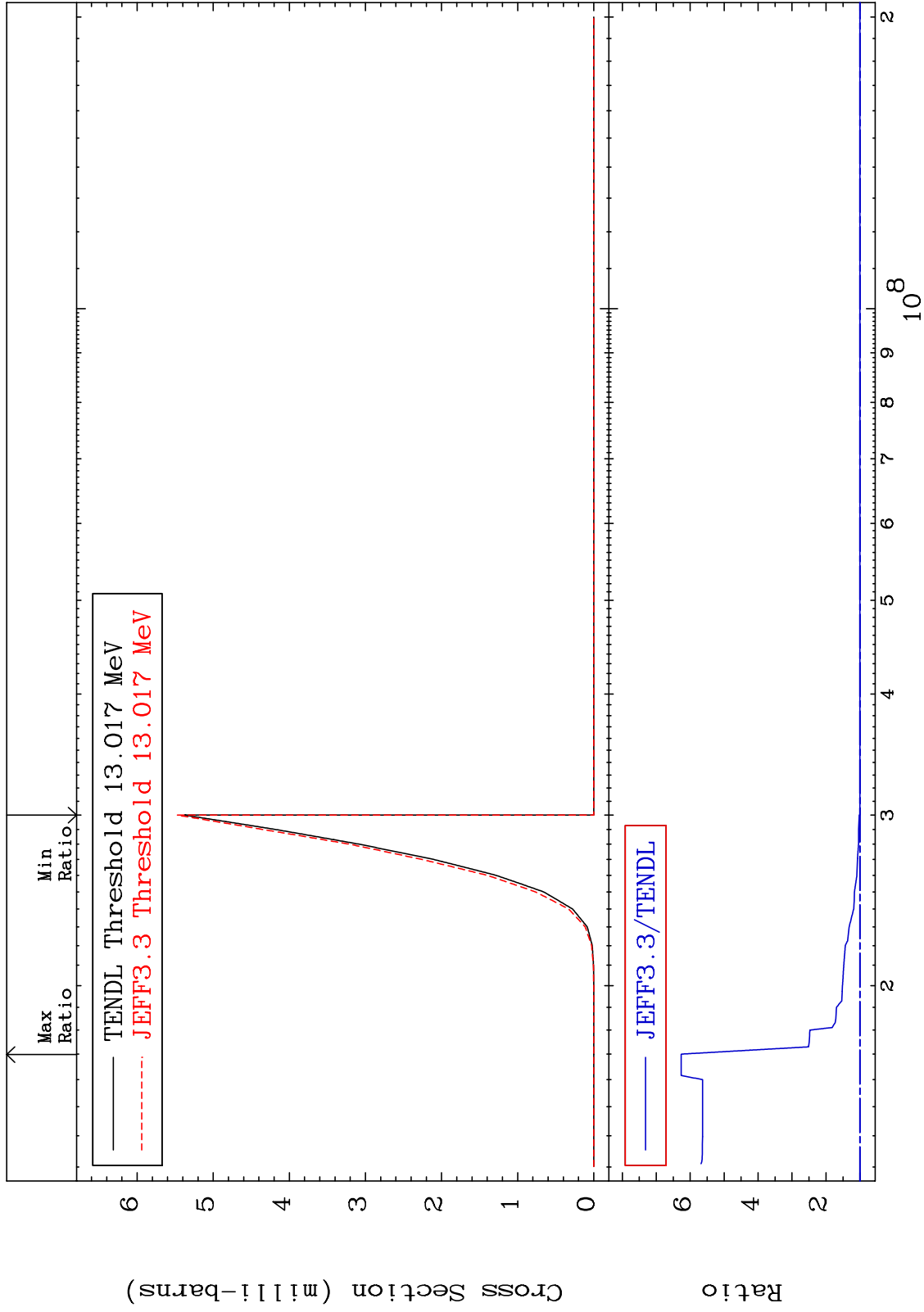
(n, n') d

80-Hg-198

Cross Section

0.000

To 526.4 %



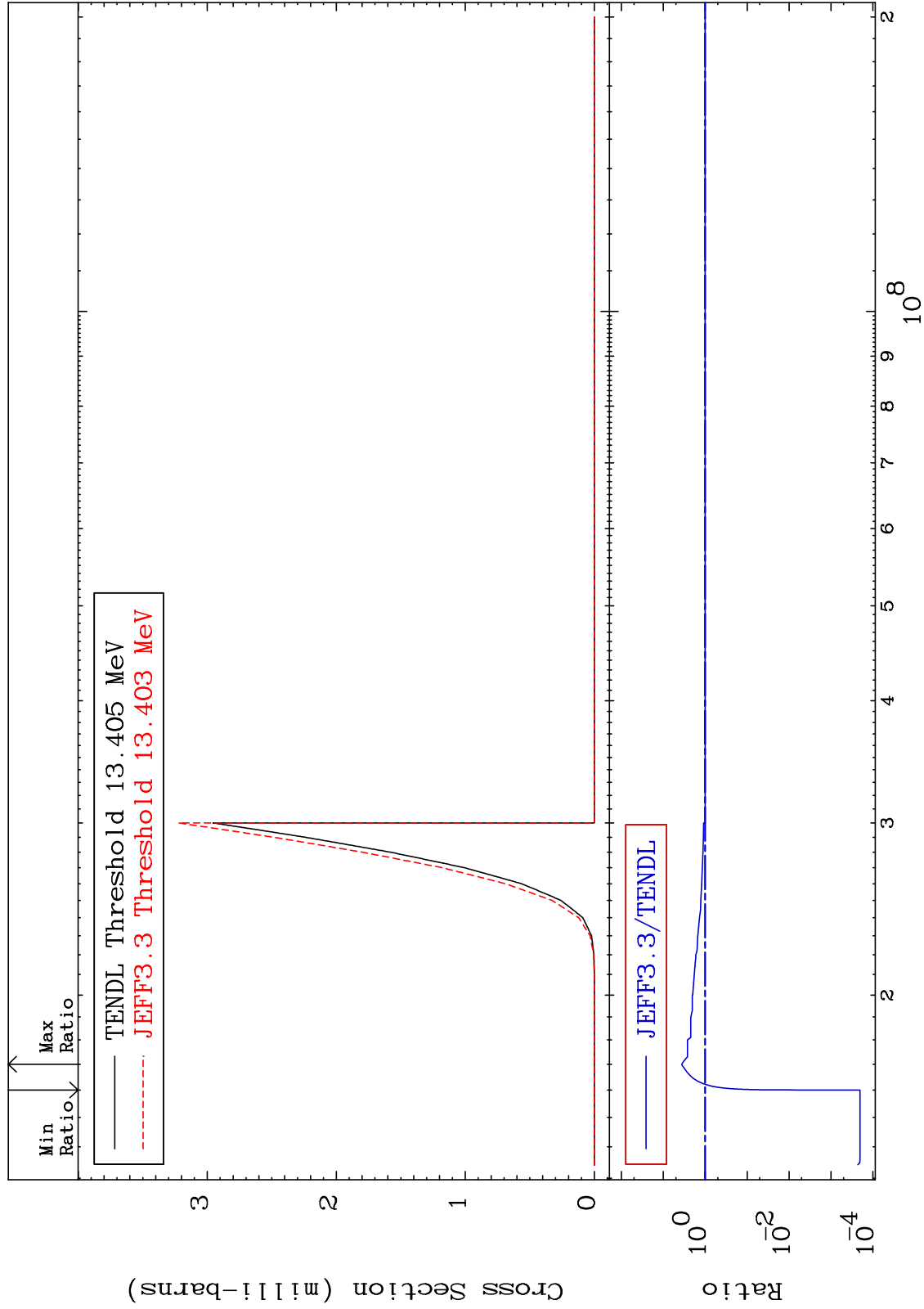
MAT 8031

(n, n') t

80-Hg-198

Cross Section

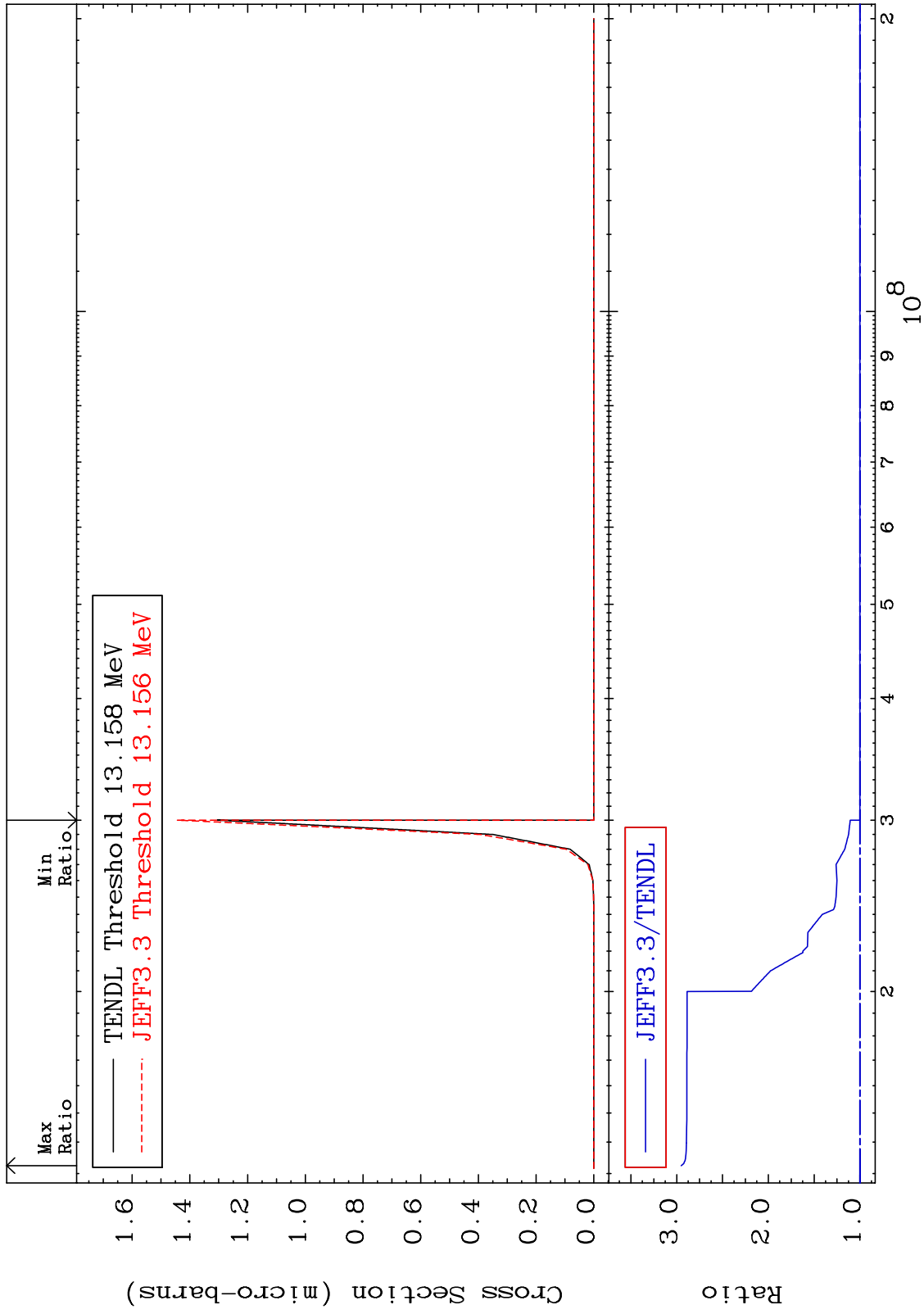
-99.98 To 265.6 %



MAT 8031

(n, n') He-3  
Cross Section

80-Hg-198  
To 195.0 %  
0.000



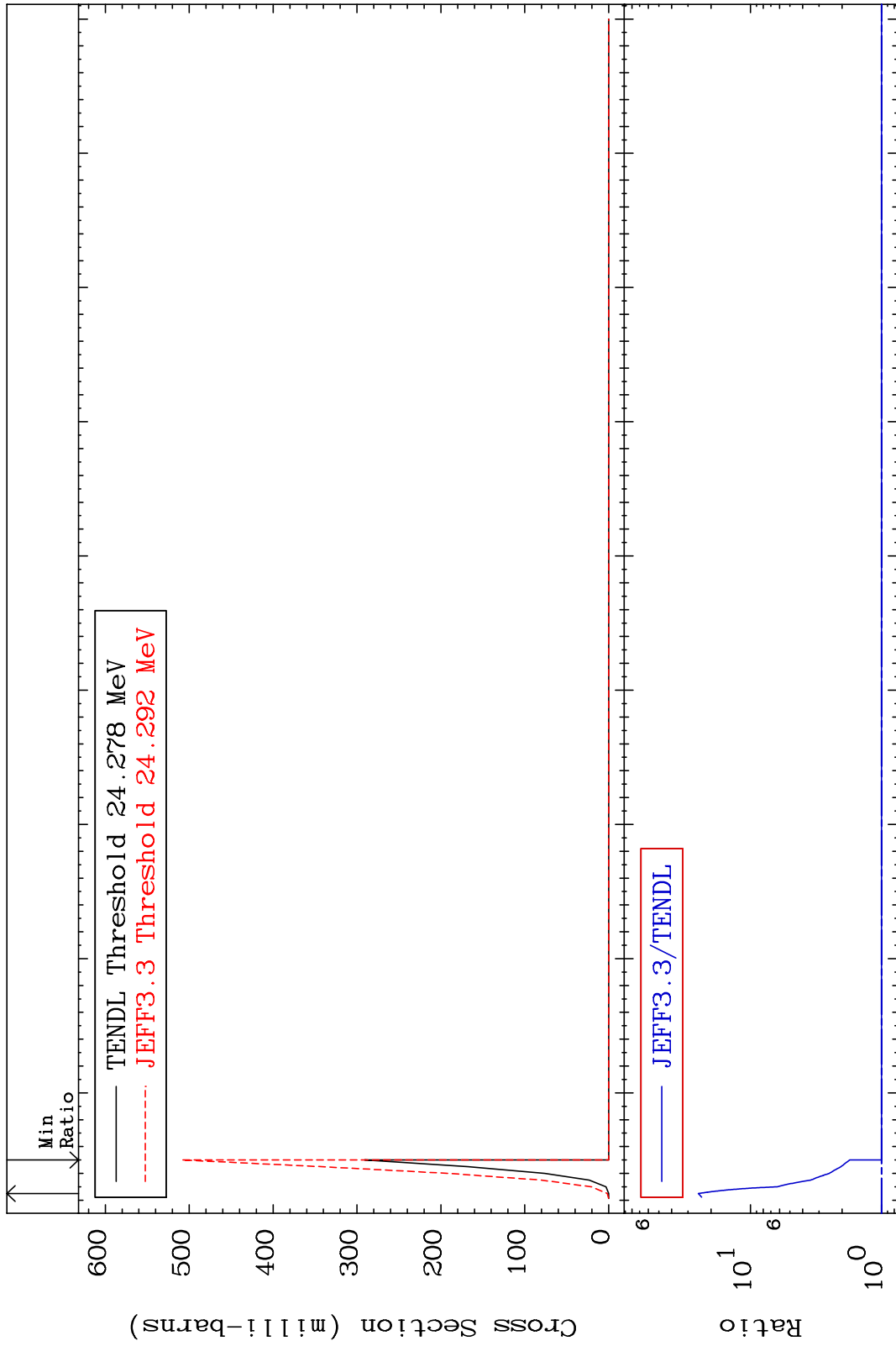
MAT 8031

(n, 4n)

80-Hg-198

Cross Section

0.000 To 2397. %

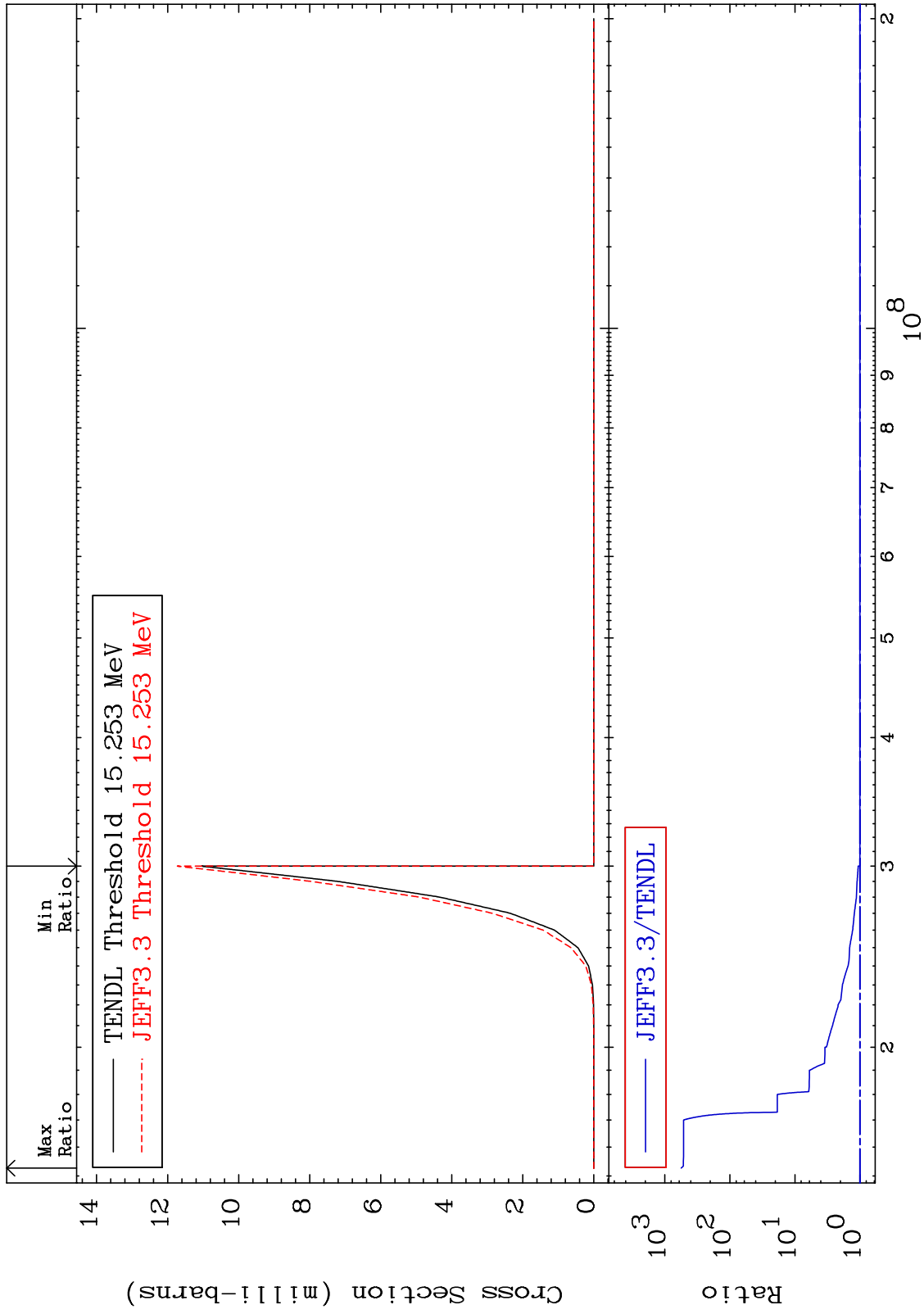




MAT 8031

(n,2n) p  
Cross Section

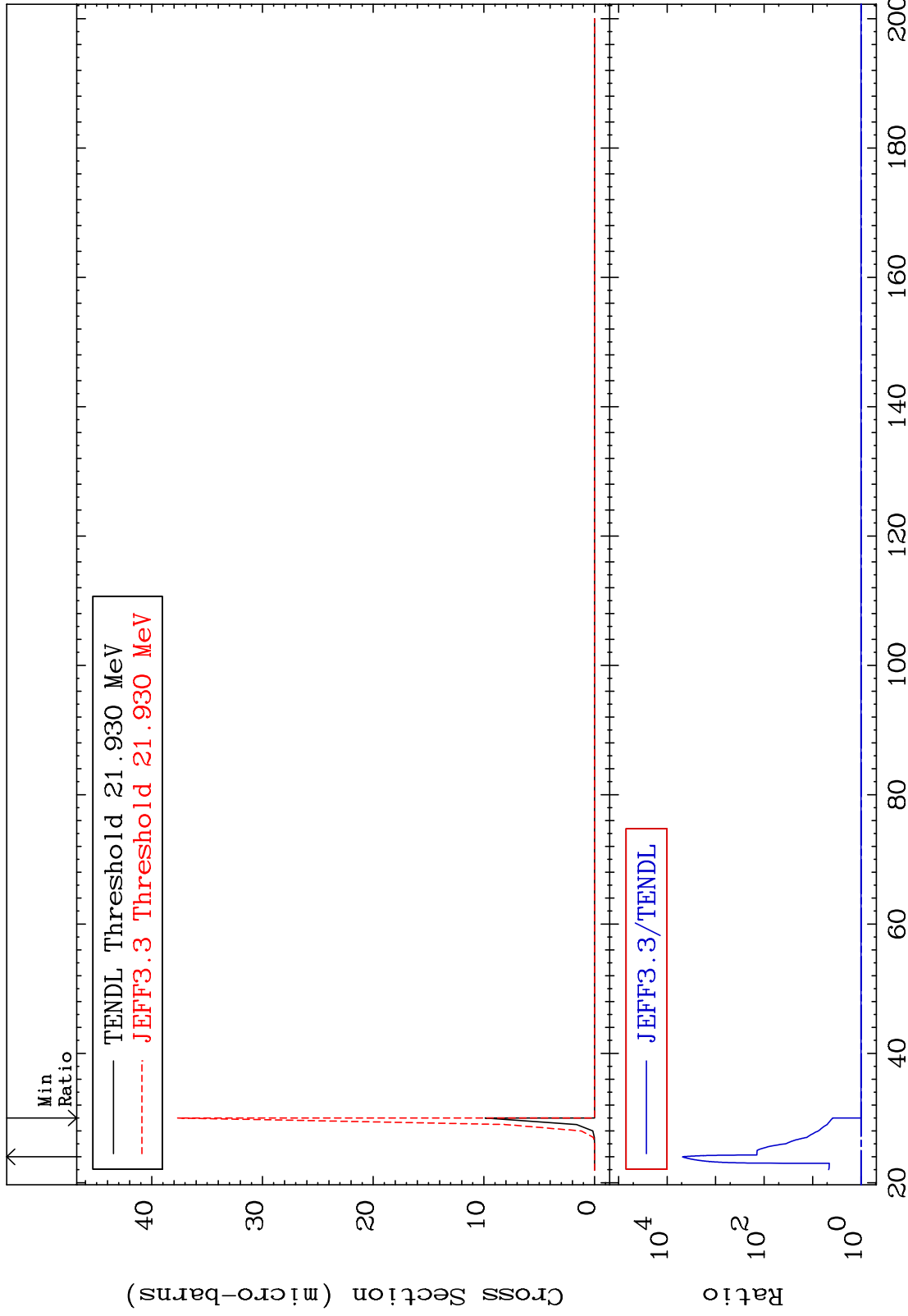
80-Hg-198  
To 9999. %  
0.000



MAT 8031

(n,3n) p  
Cross Section

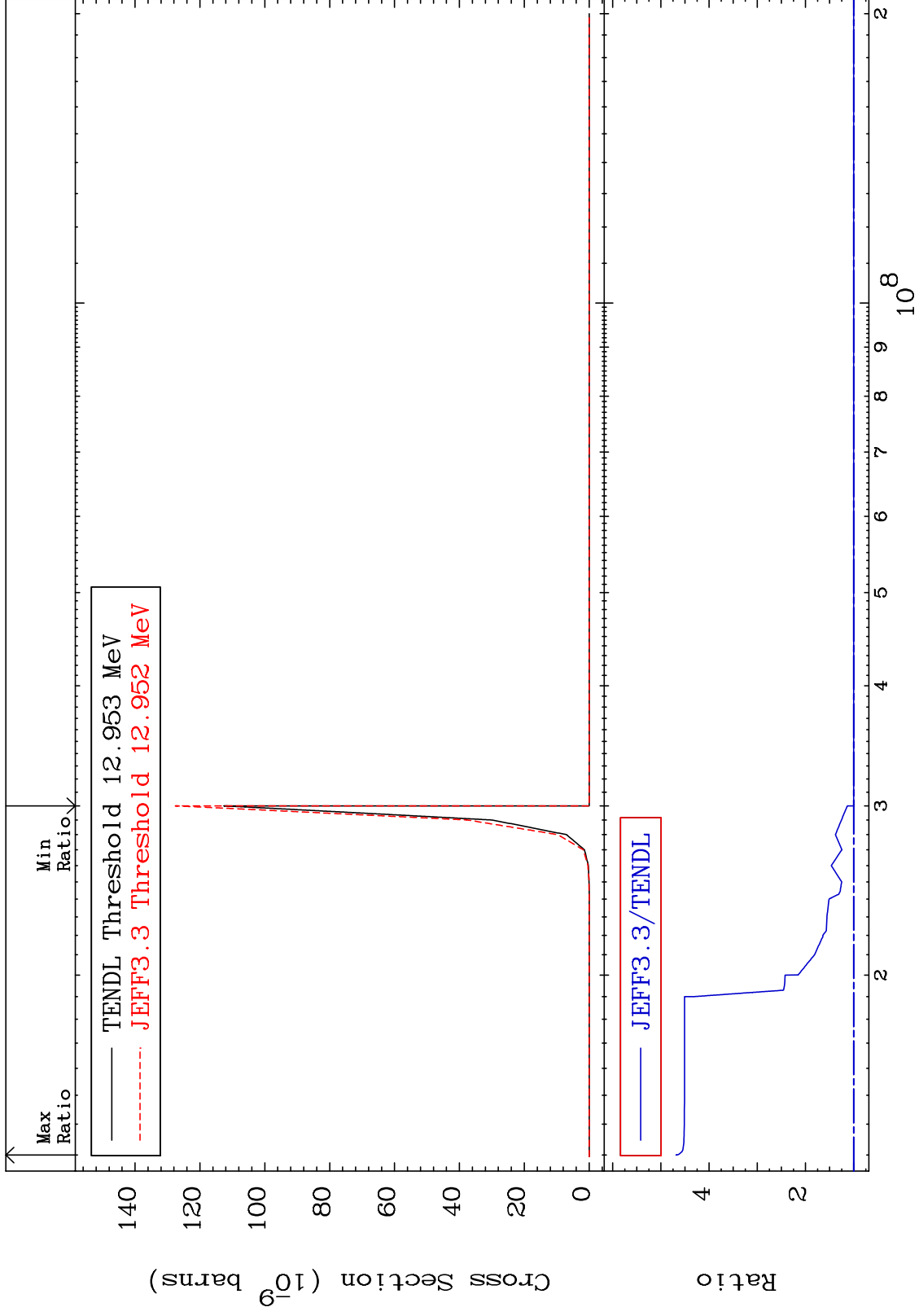
80-Hg-198  
0.000 To 9999. %



MAT 8031

(n,2n) p  
Cross Section

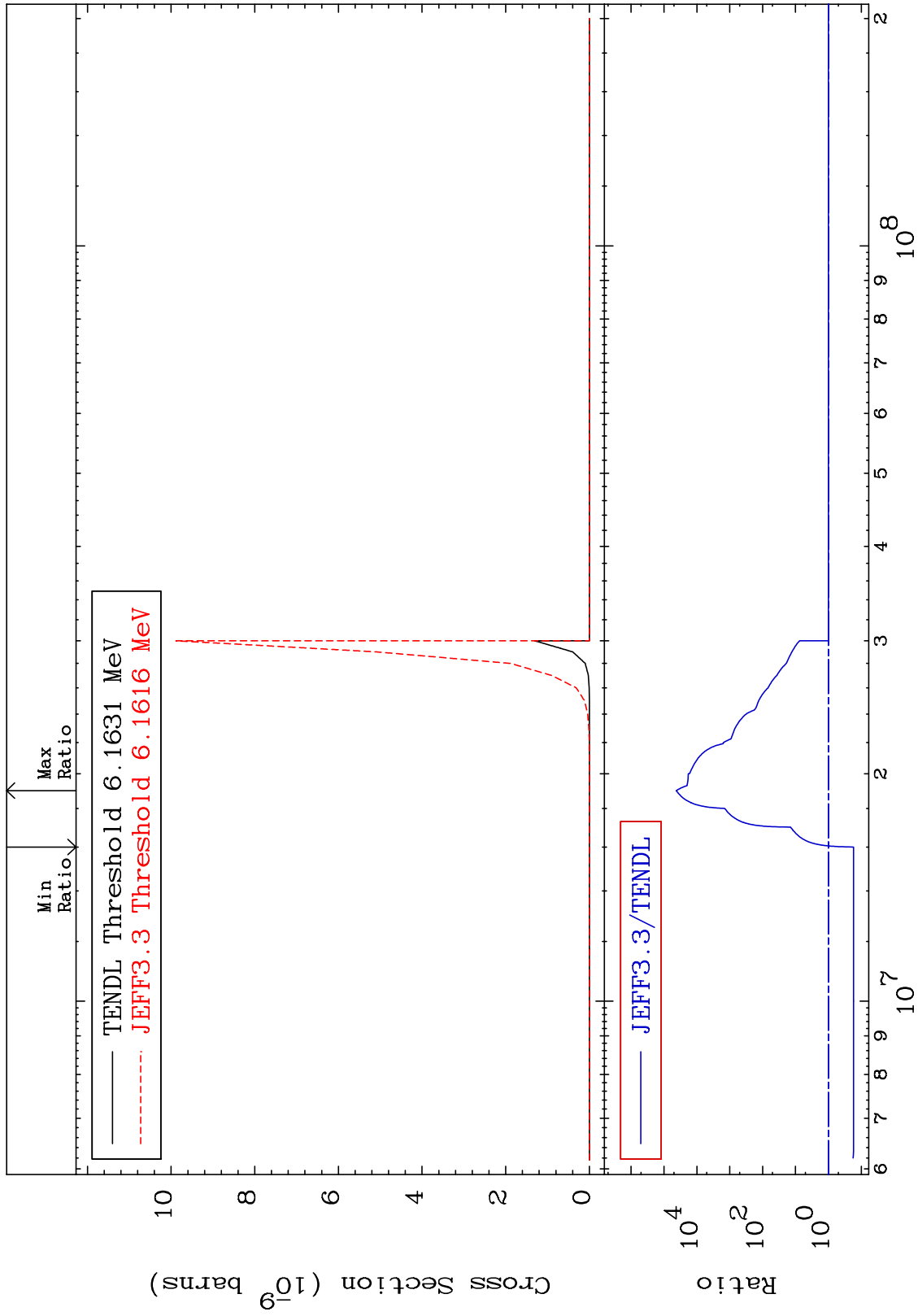
80-Hg-198  
0.000 To 368.5 %

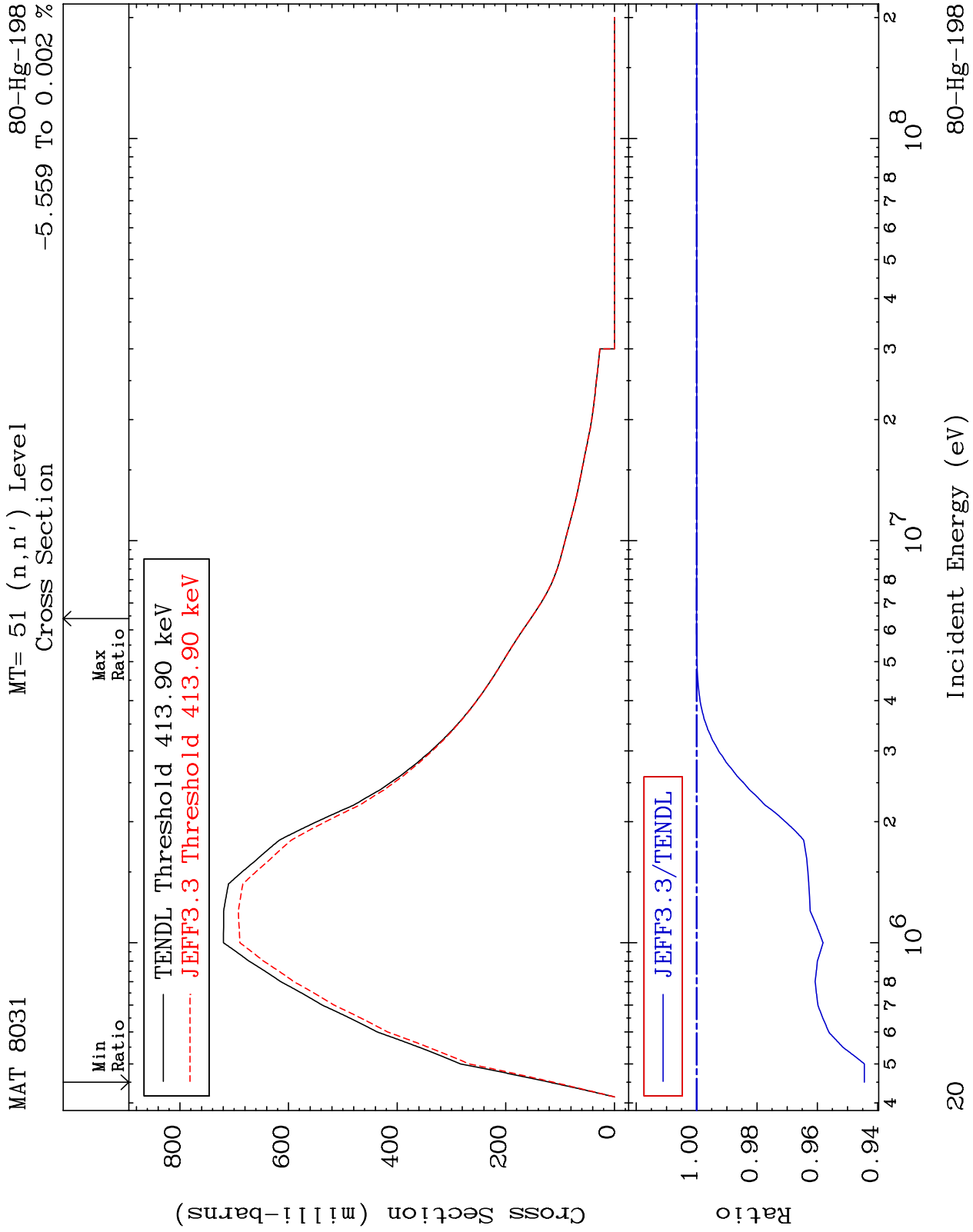


MAT 8031

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

80-Hg-198  
-82.86 To 9999. %

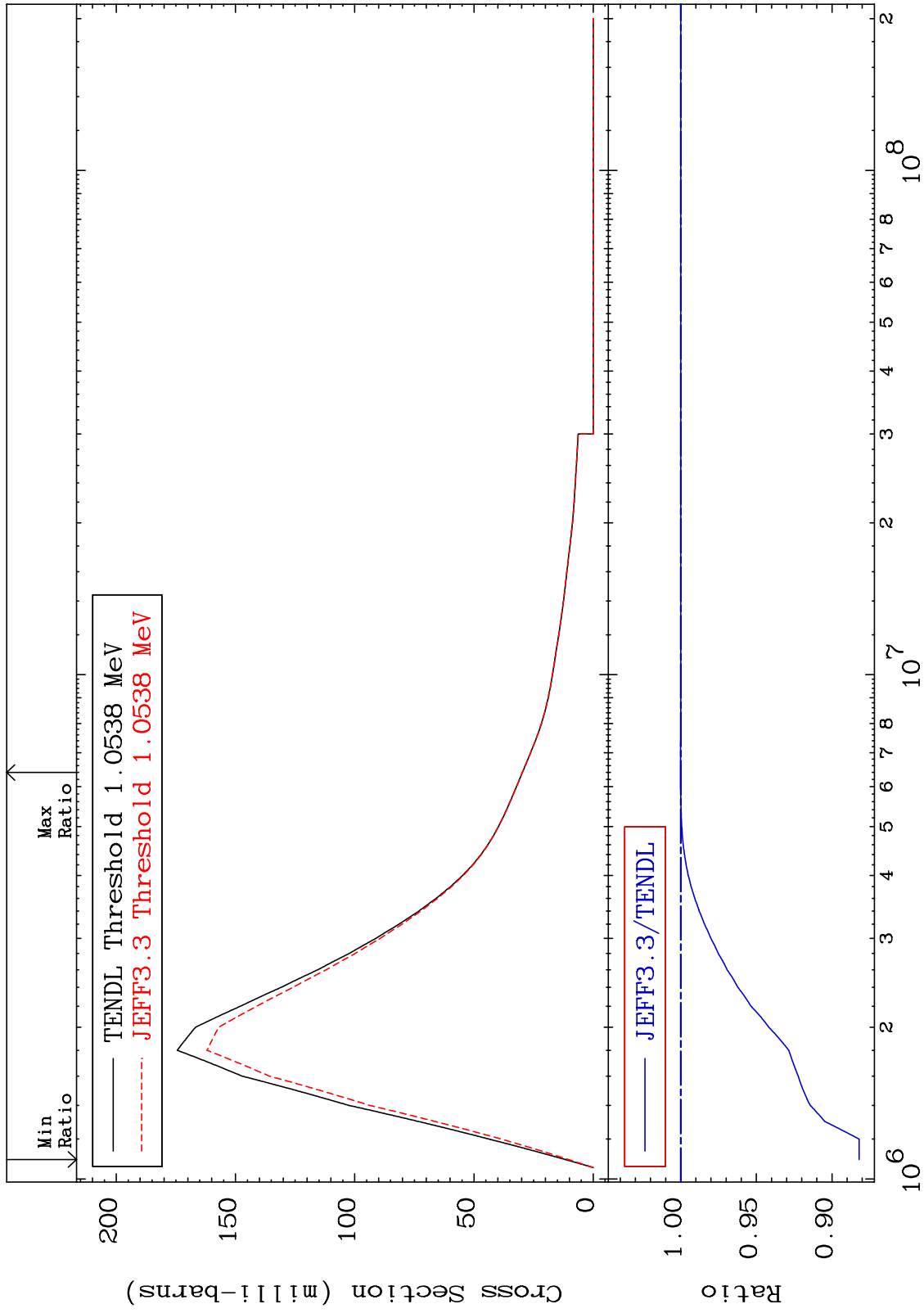




MAT 8031

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

80-Hg-198  
-11.80 To 0.008 %

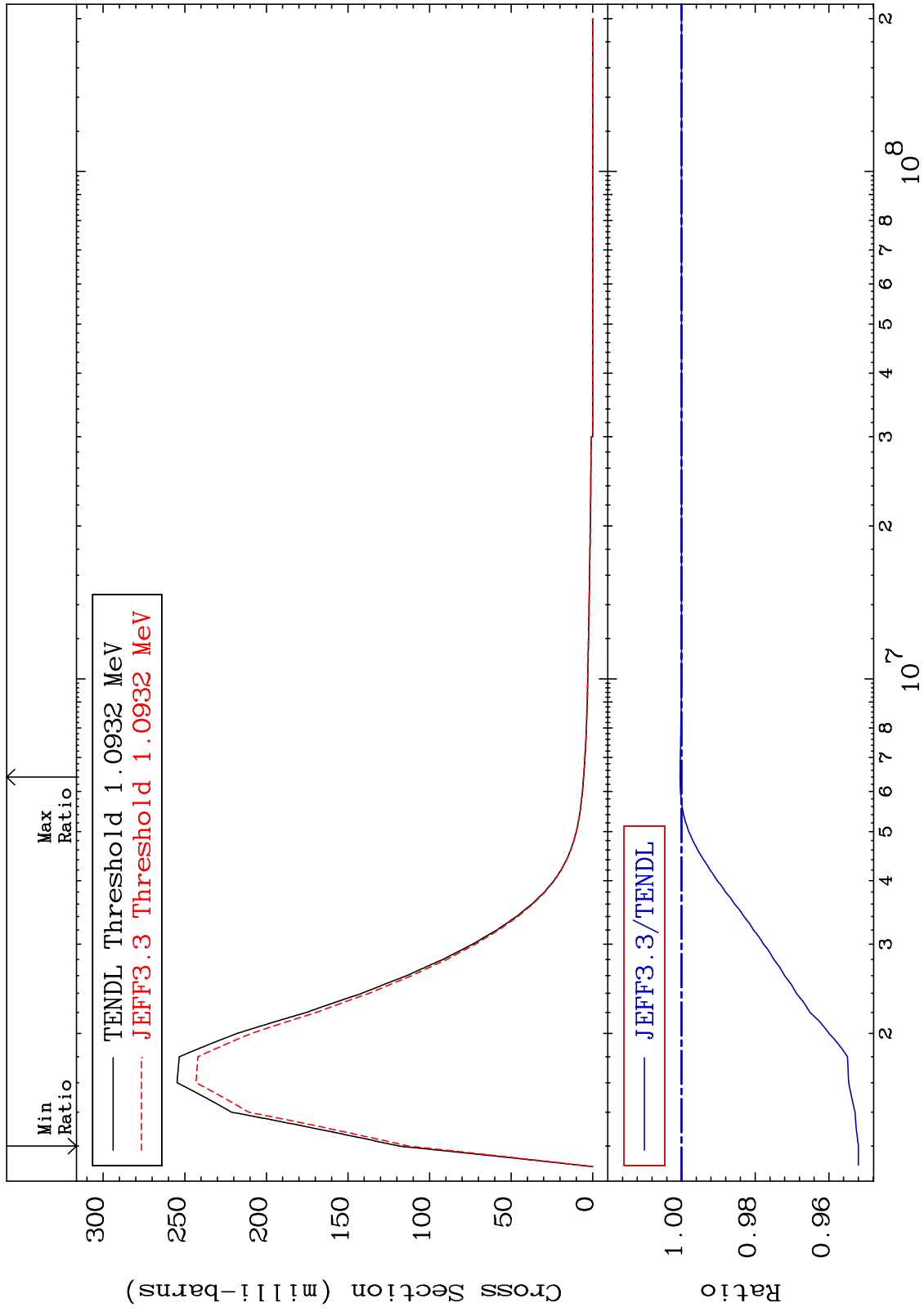


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Incident Energy (eV)

80-Hg-198

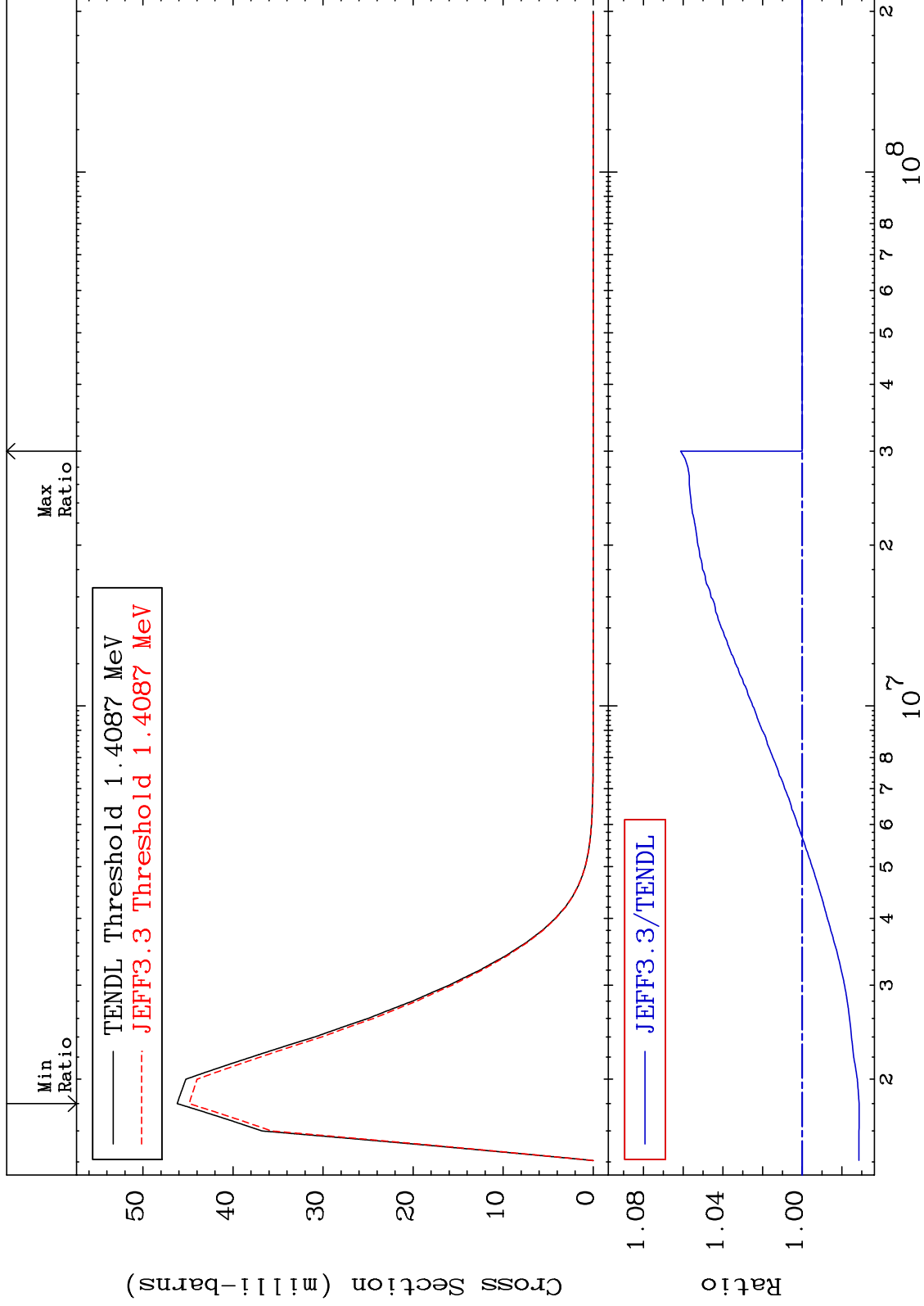
MAT 8031 MT= 53 (n, n') Level  
Cross Section 80-Hg-198  
-4.801 To 0.040 %



MAT 8031

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

80-Hg-198  
-2.868 To 6.129 %

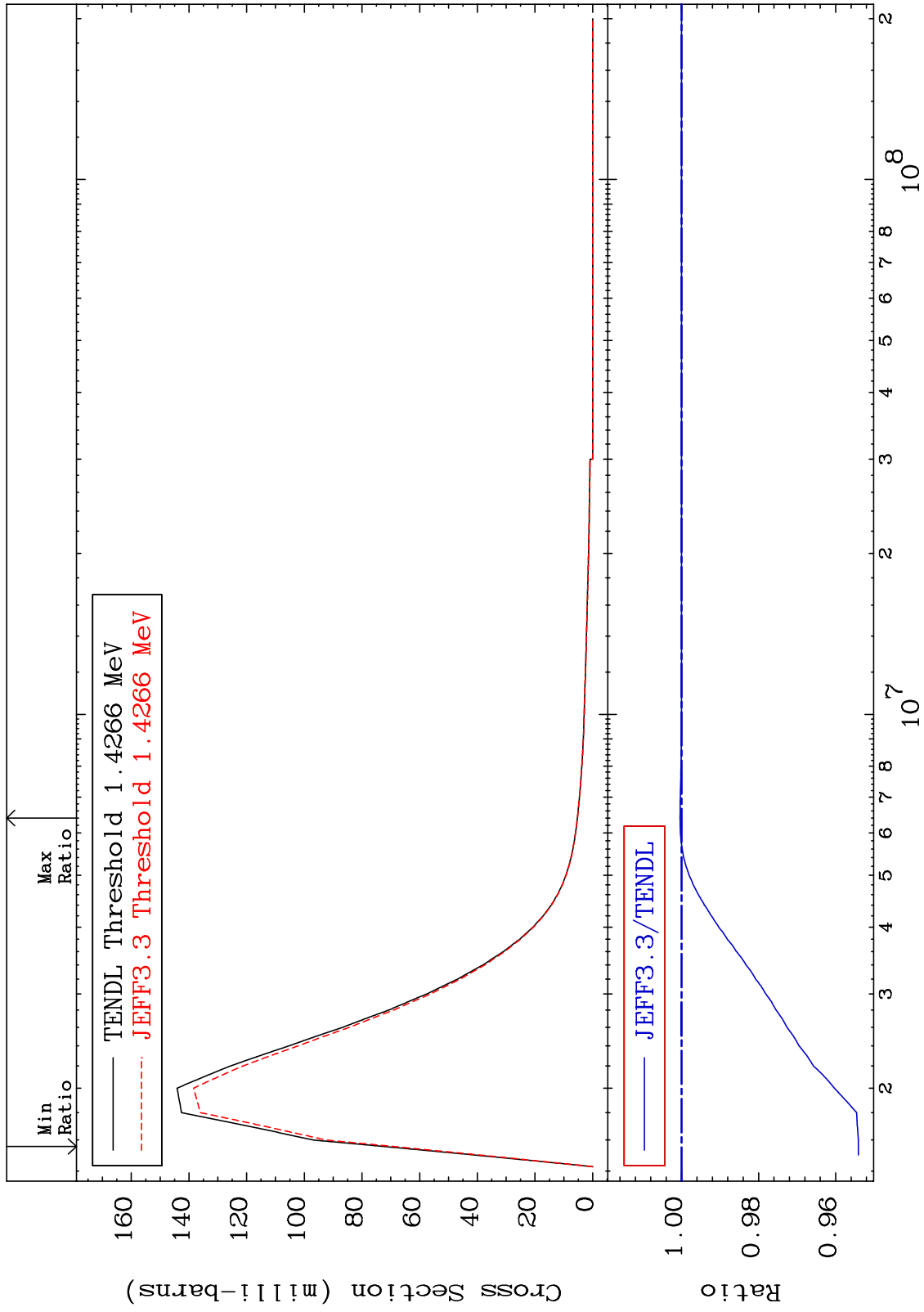


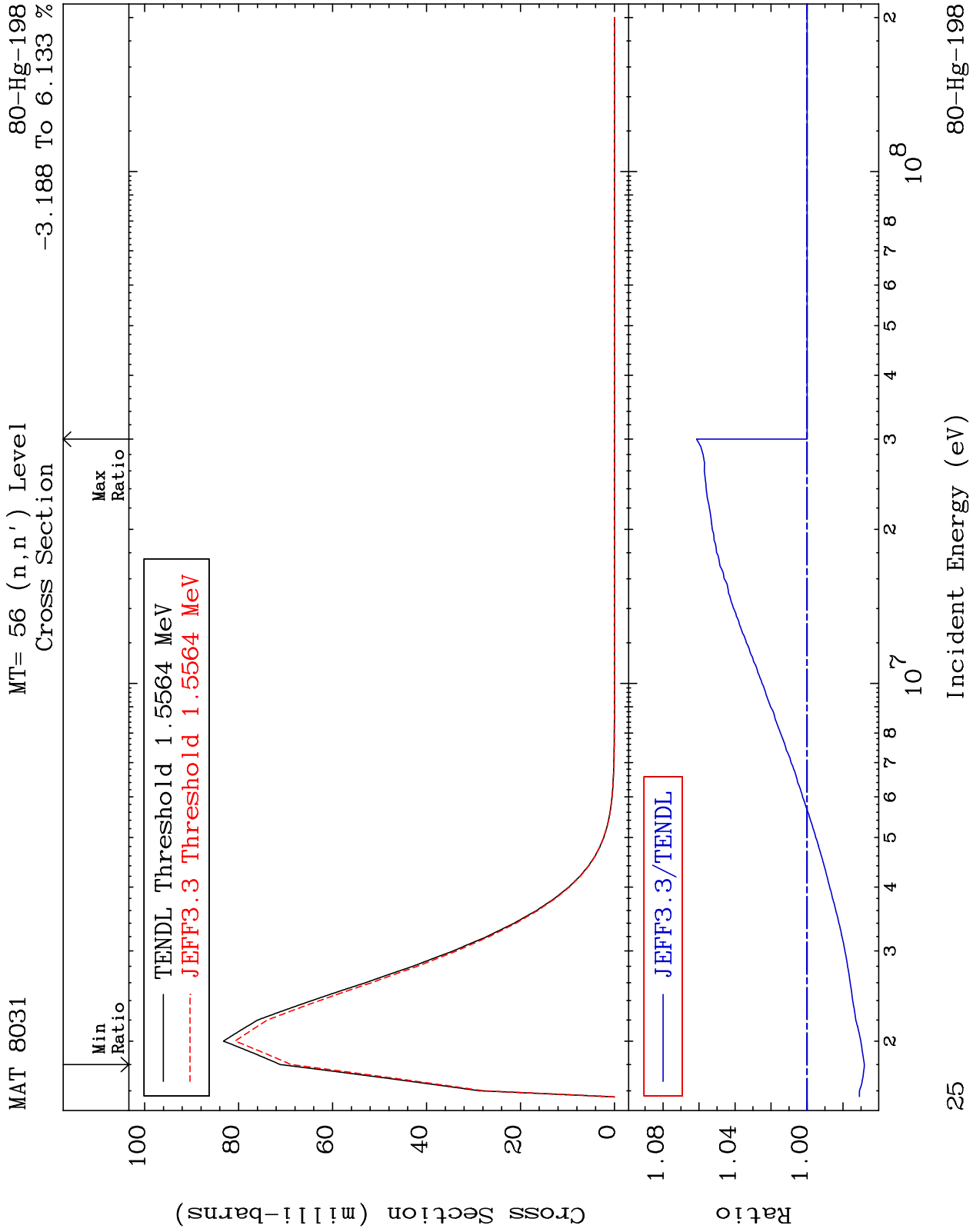


MAT 8031

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

80-Hg-198  
-4.590 To 0.041 %

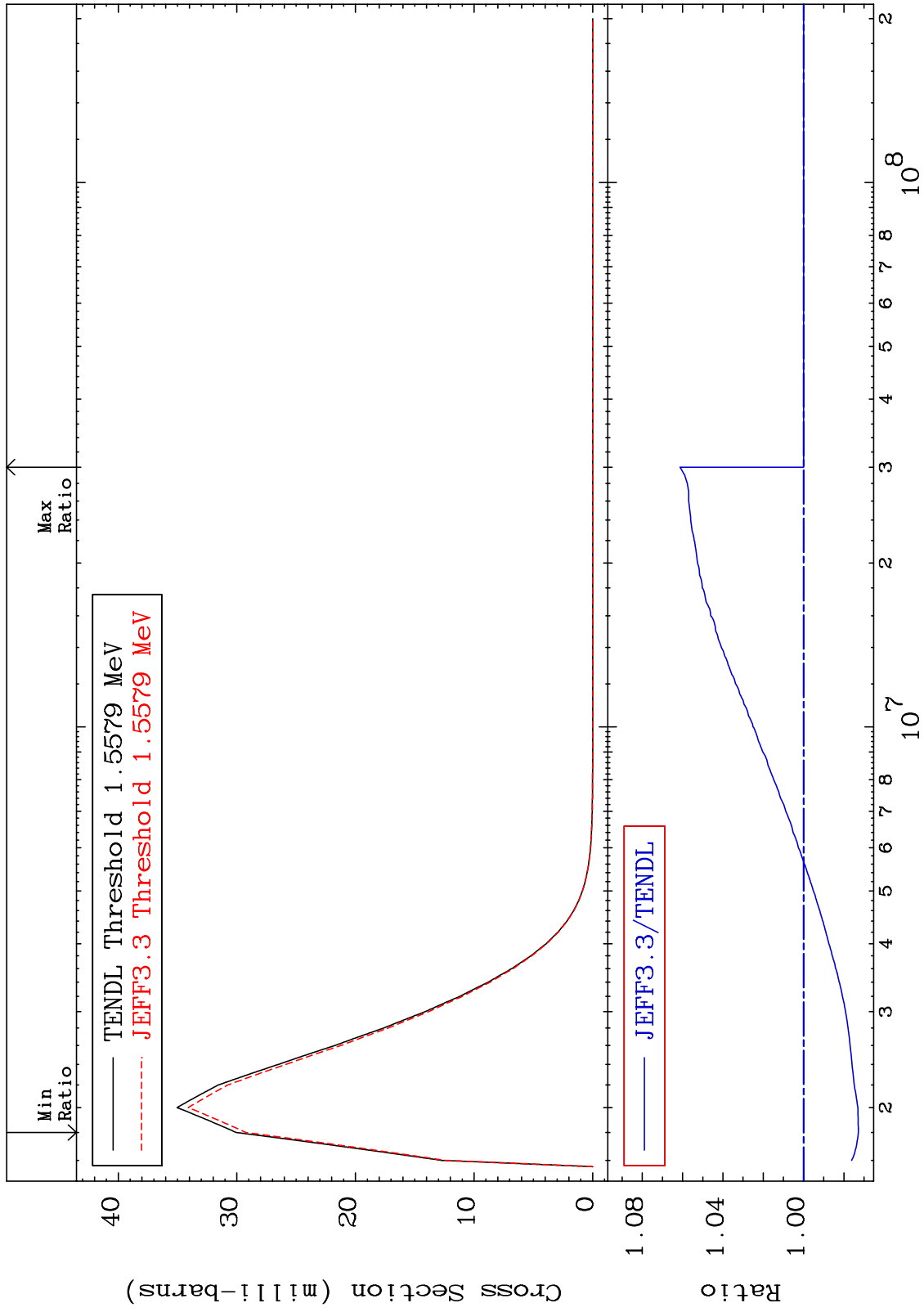




MAT 8031

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

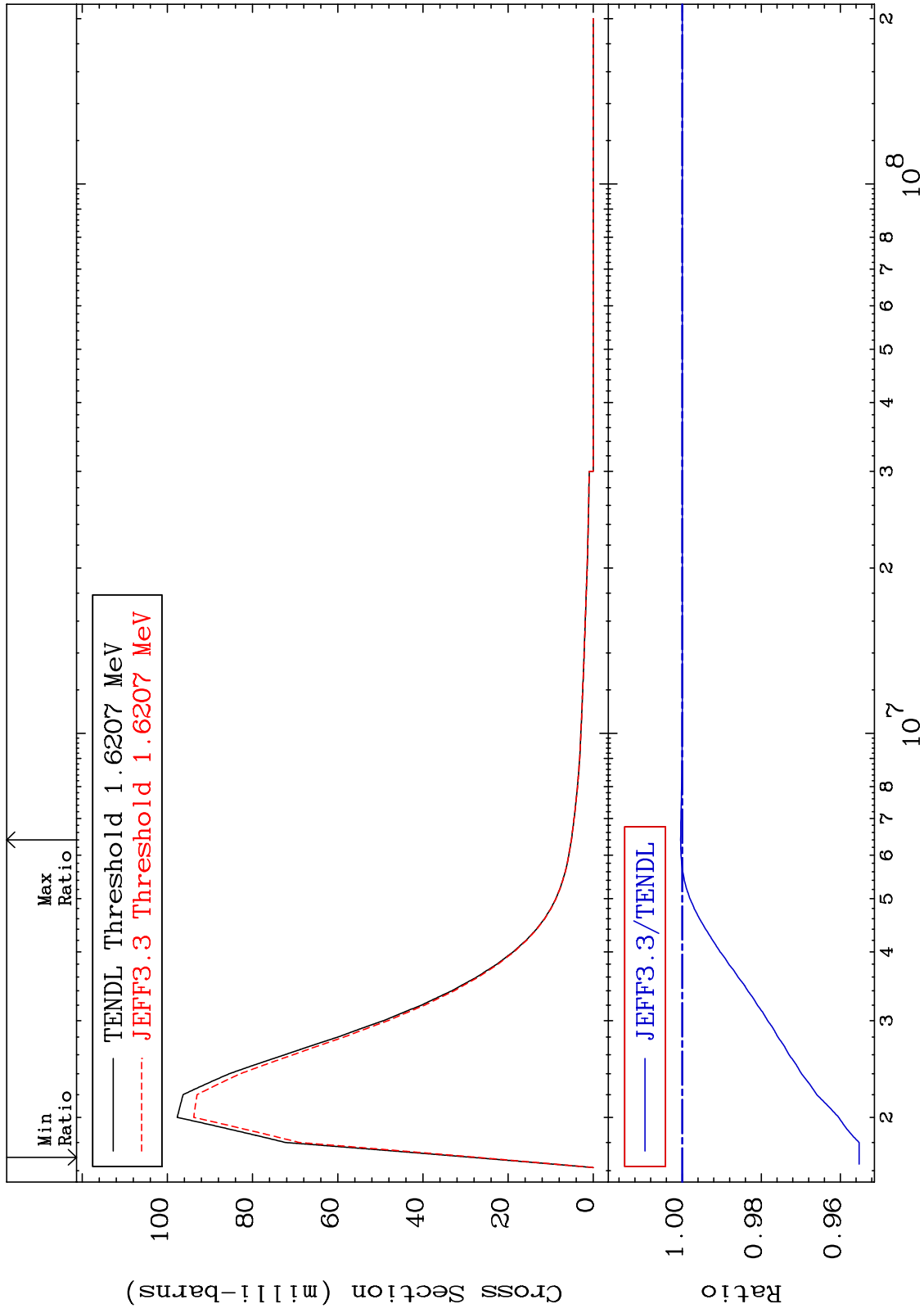
80-Hg-198  
-2.721 To 6.129 %



MAT 8031

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

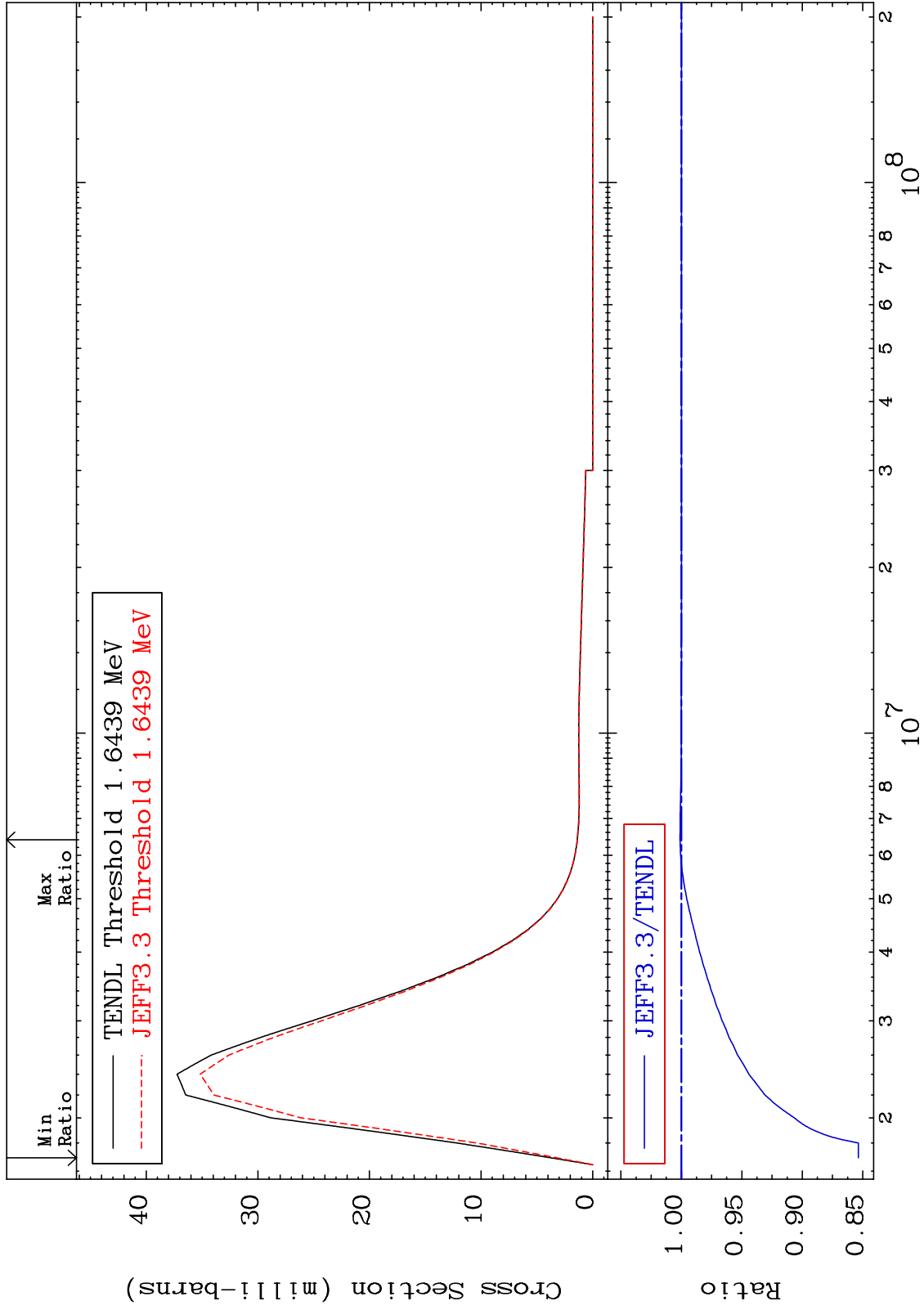
80-Hg-198  
-4.479 To 0.041 %



MAT 8031

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

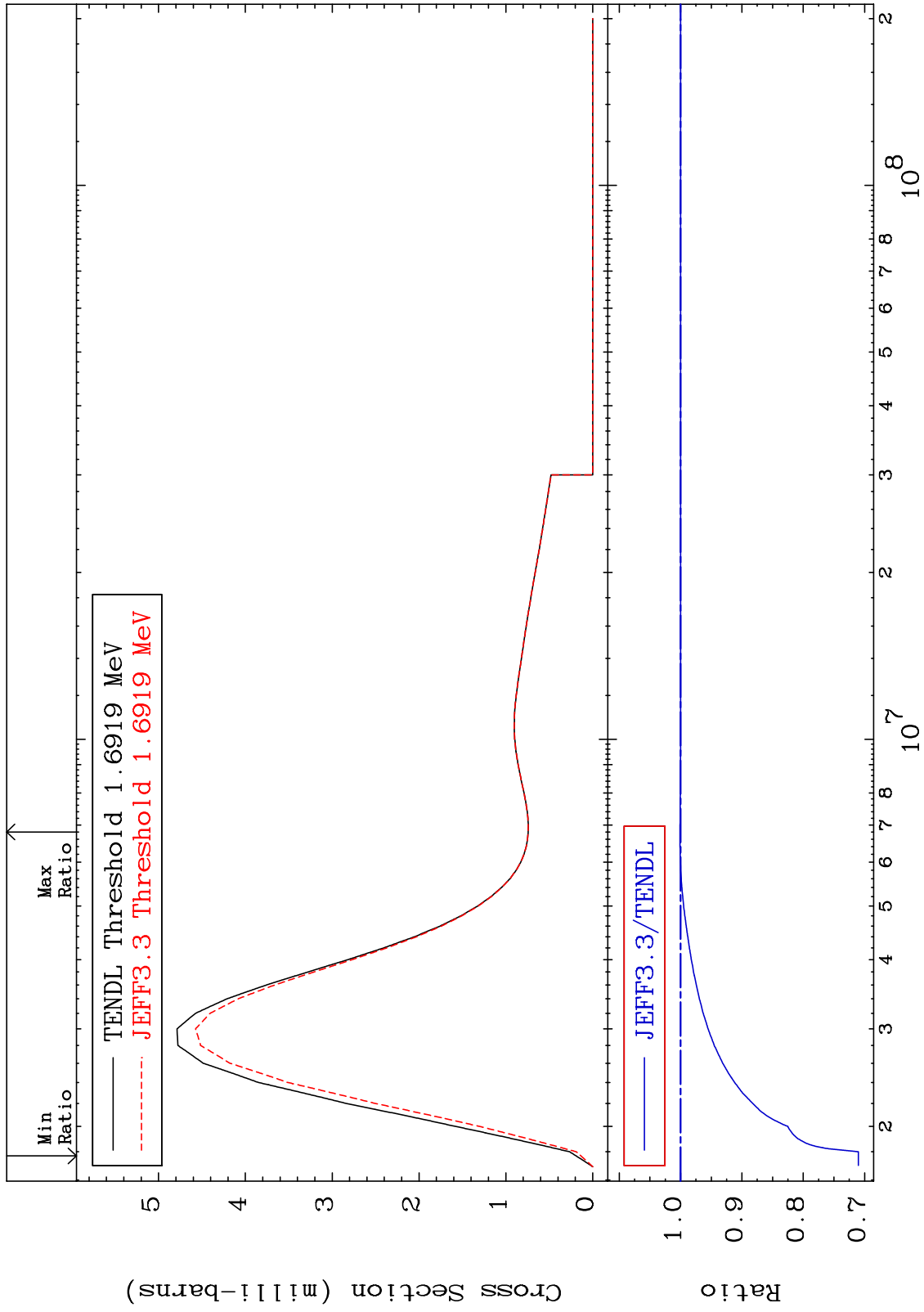
80-Hg-198  
-14.64 To 0.112 %



MAT 8031

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

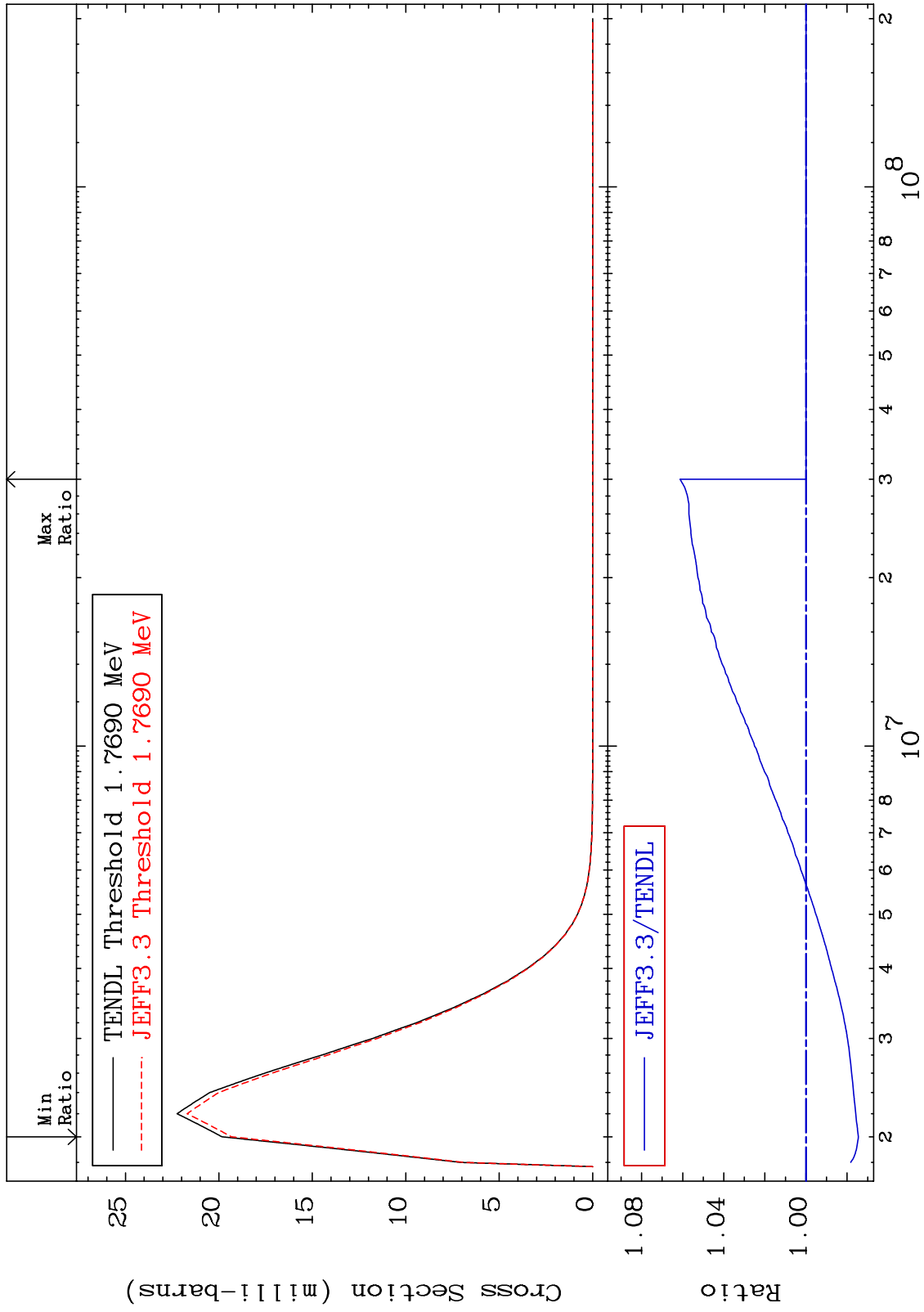
80-Hg-198  
-28.99 To 0.095 %



MAT 8031

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

80-Hg-198  
-2.550 To 6.130 %



30

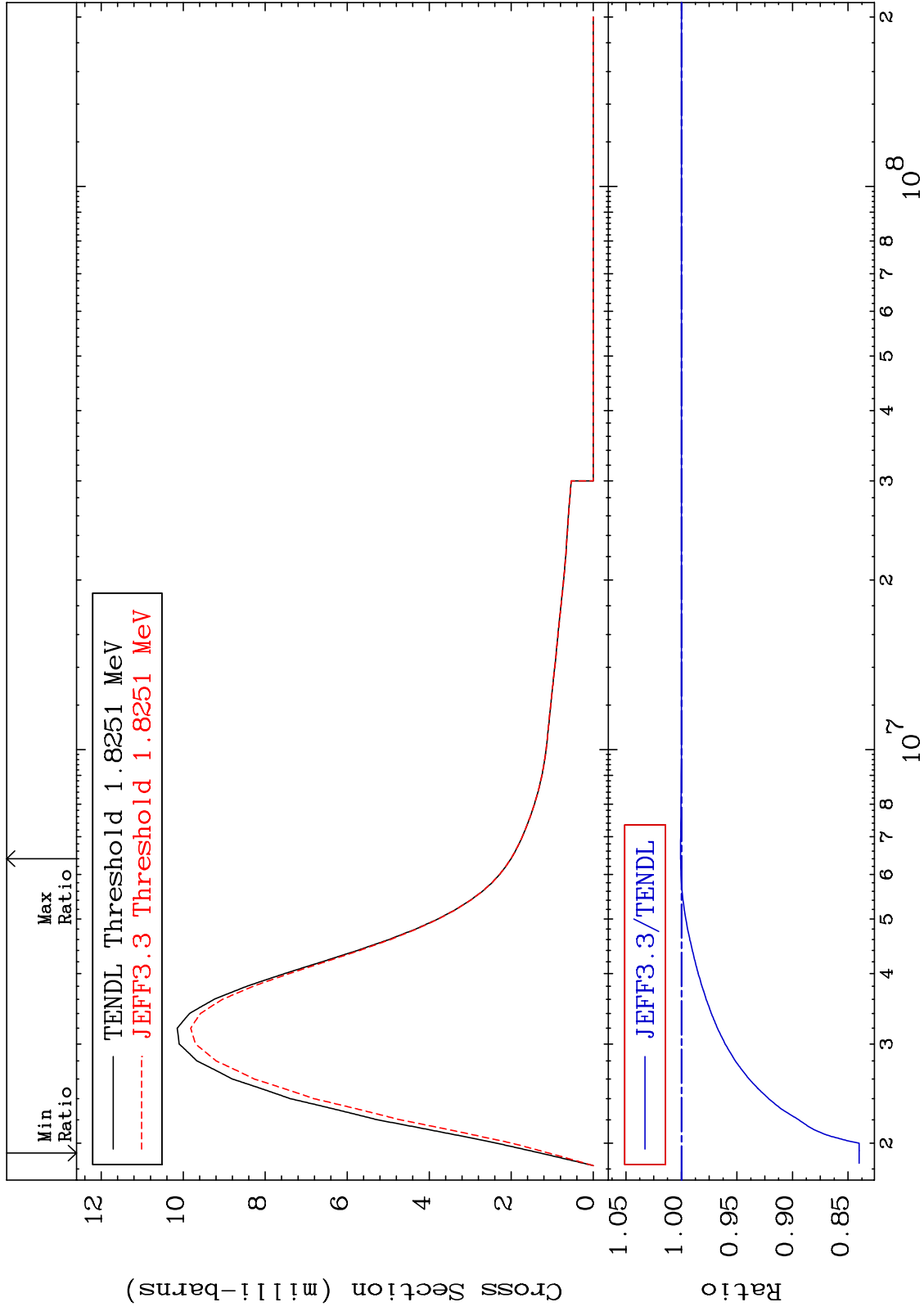
Incident Energy (eV)

80-Hg-198

MAT 8031

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

80-Hg-198  
-16.00 To 0.074 %

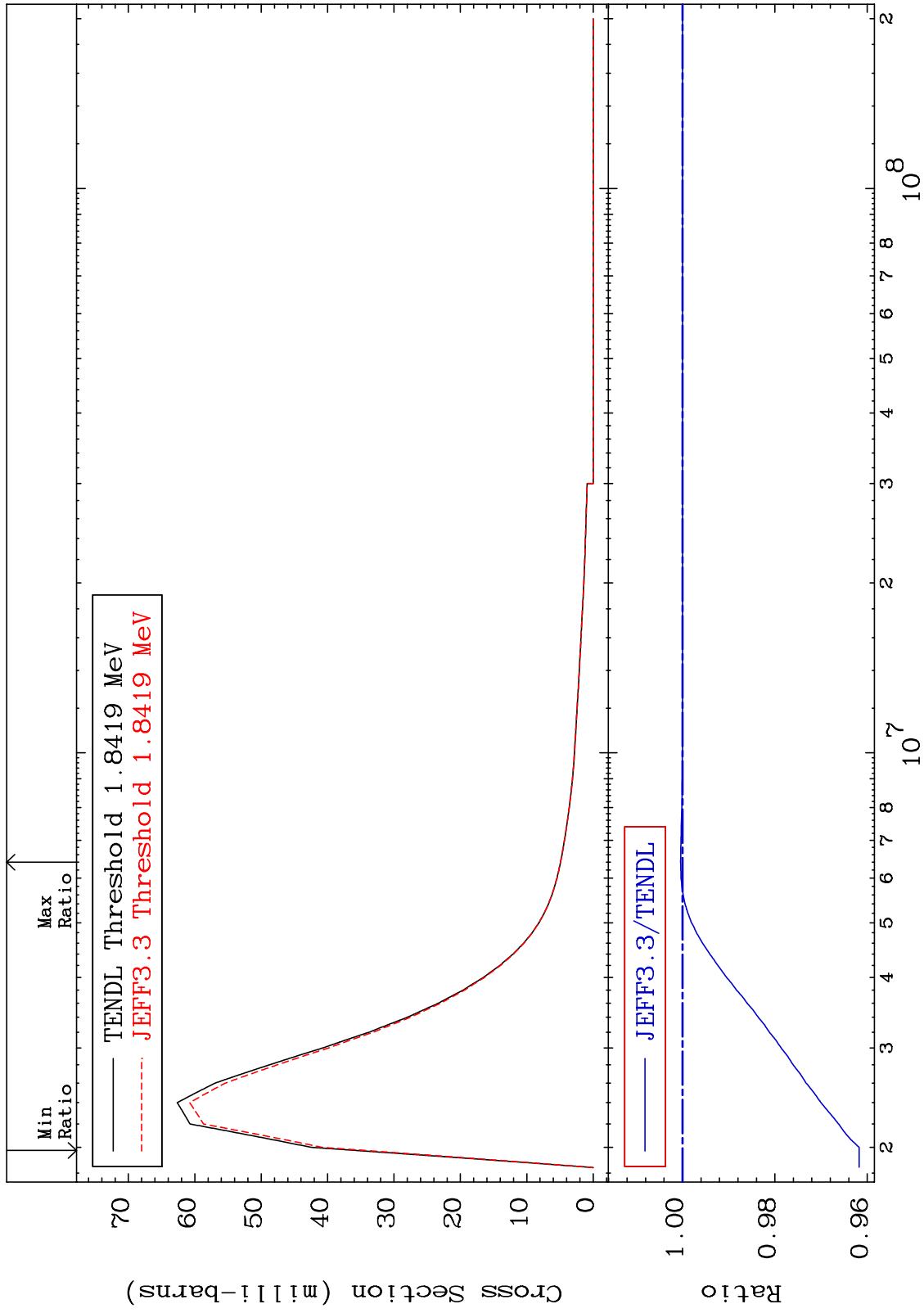




MAT 8031

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

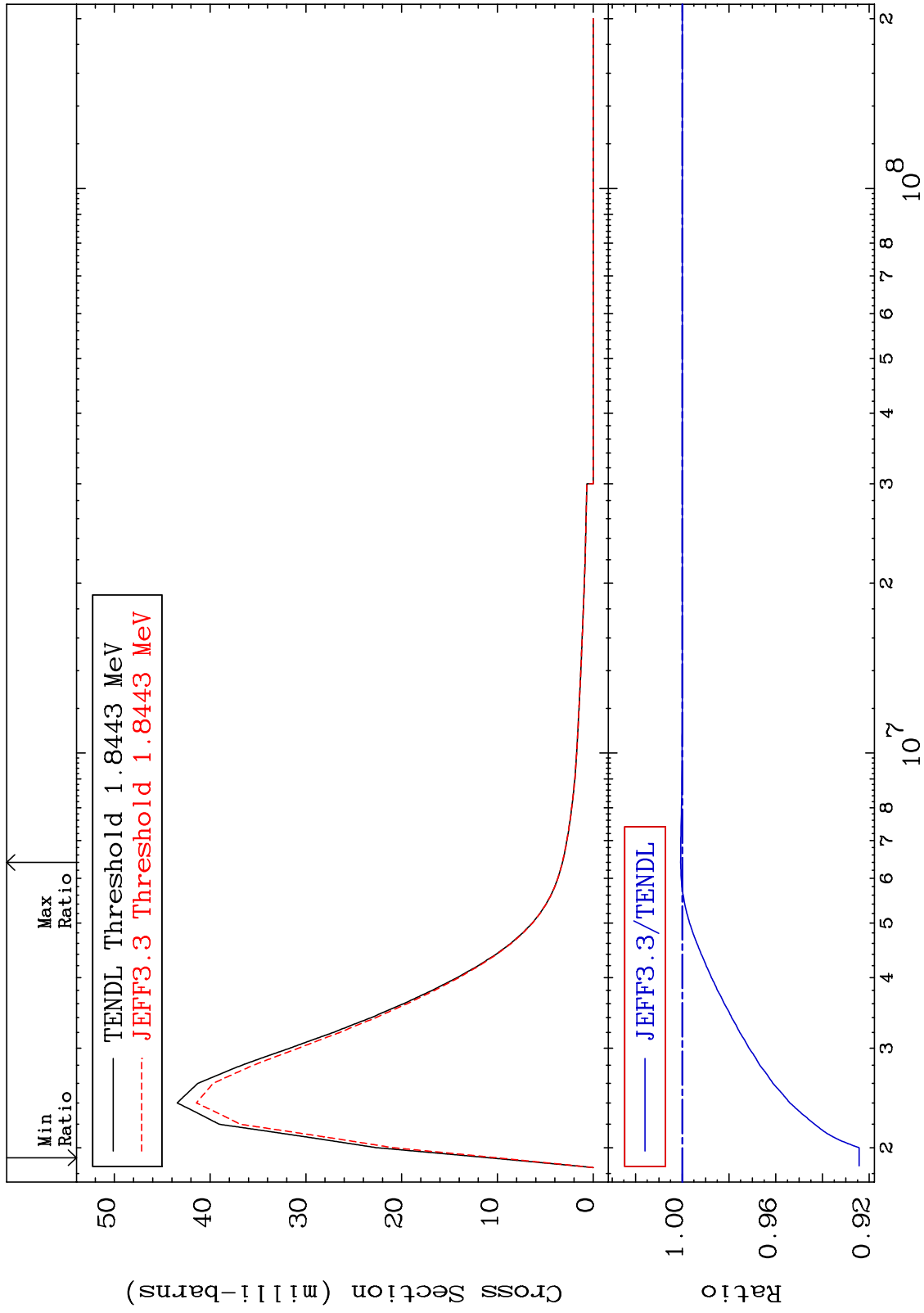
80-Hg-198  
-3.825 To 0.041 %



MAT 8031

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

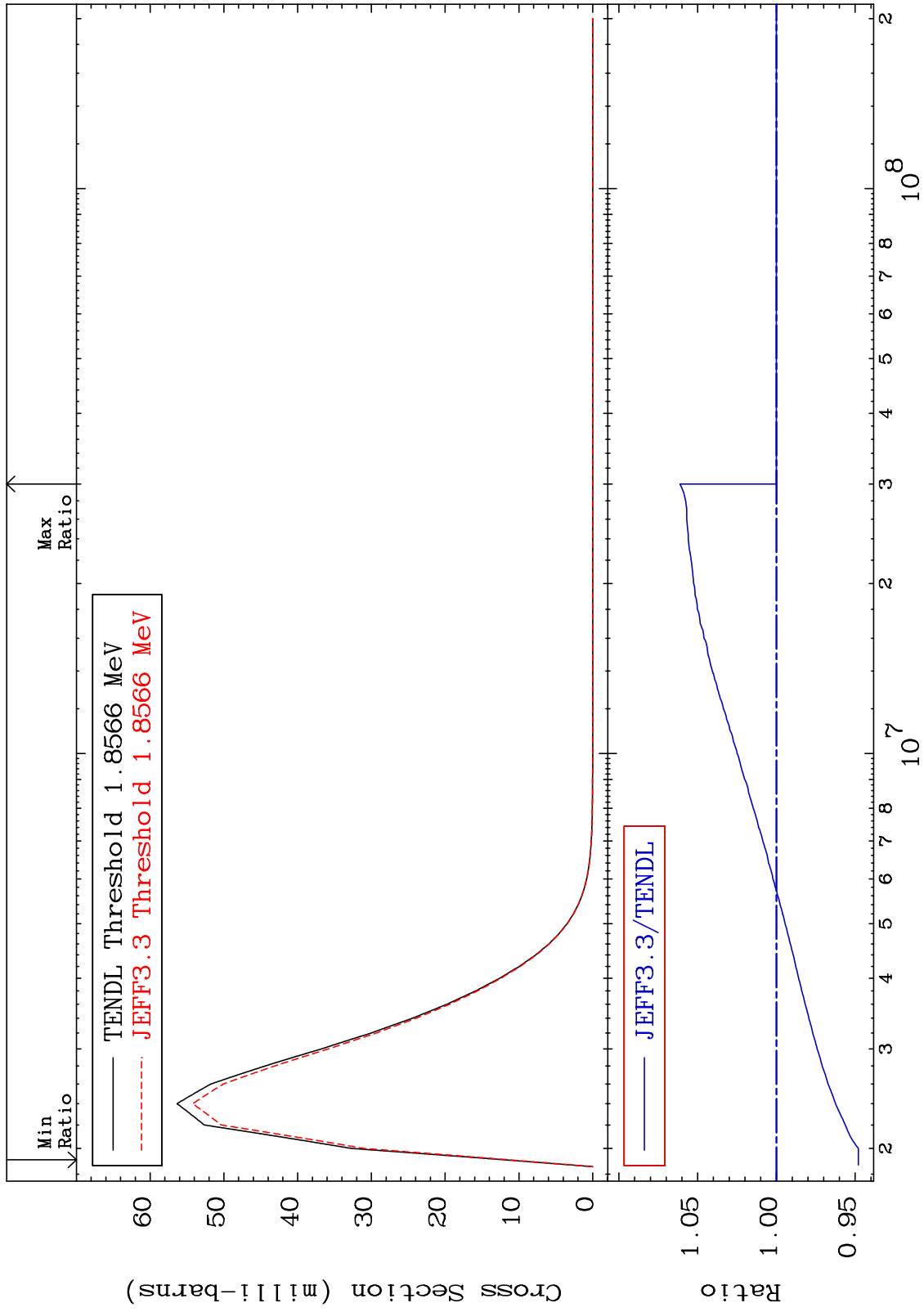
80-Hg-198  
-7.569 To 0.070 %



MAT 8031

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

80-Hg-198  
-5.206 To 6.121 %



34

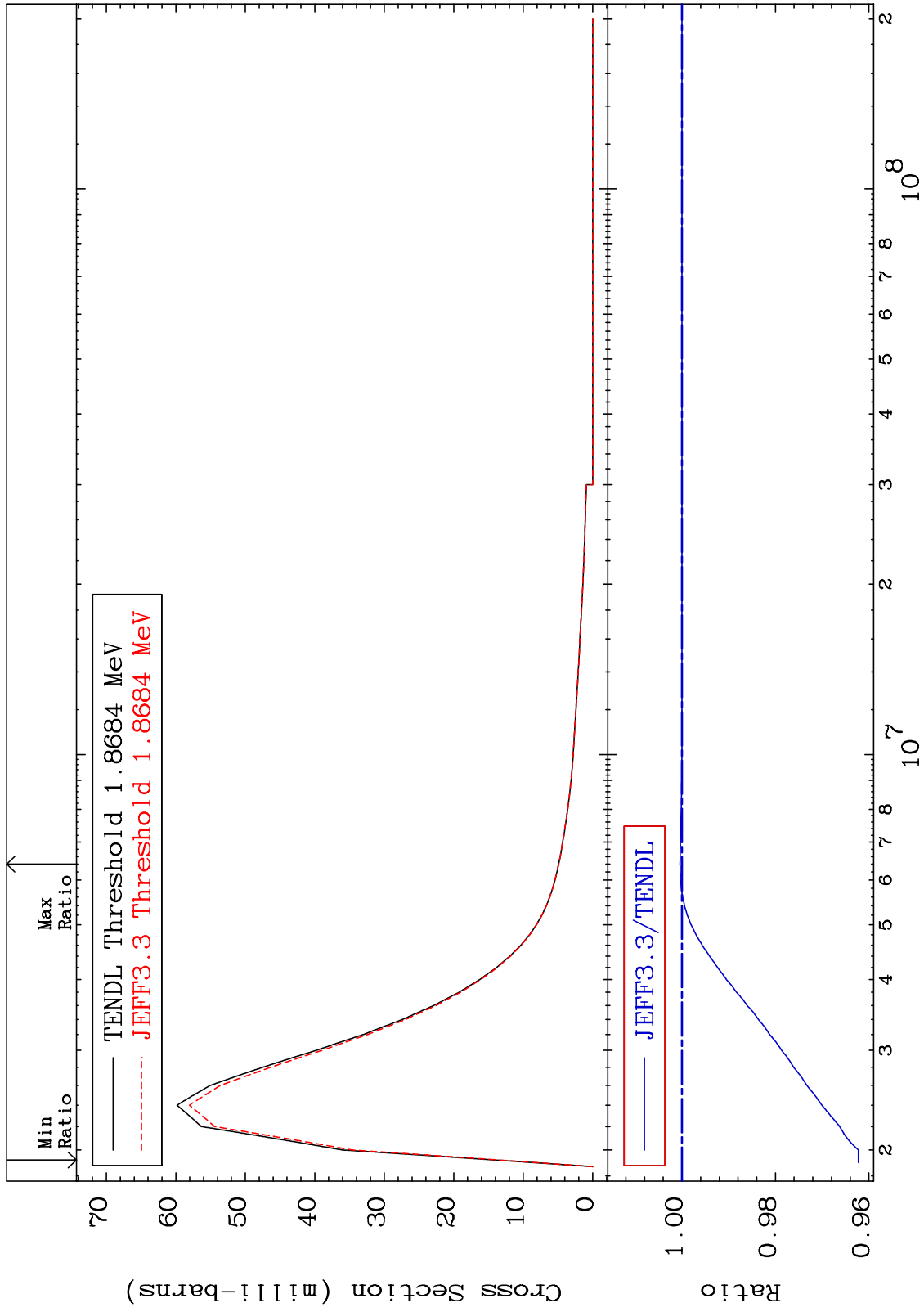
Incident Energy (eV)

80-Hg-198

MAT 8031

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

80-Hg-198  
-3.776 To 0.041 %



35

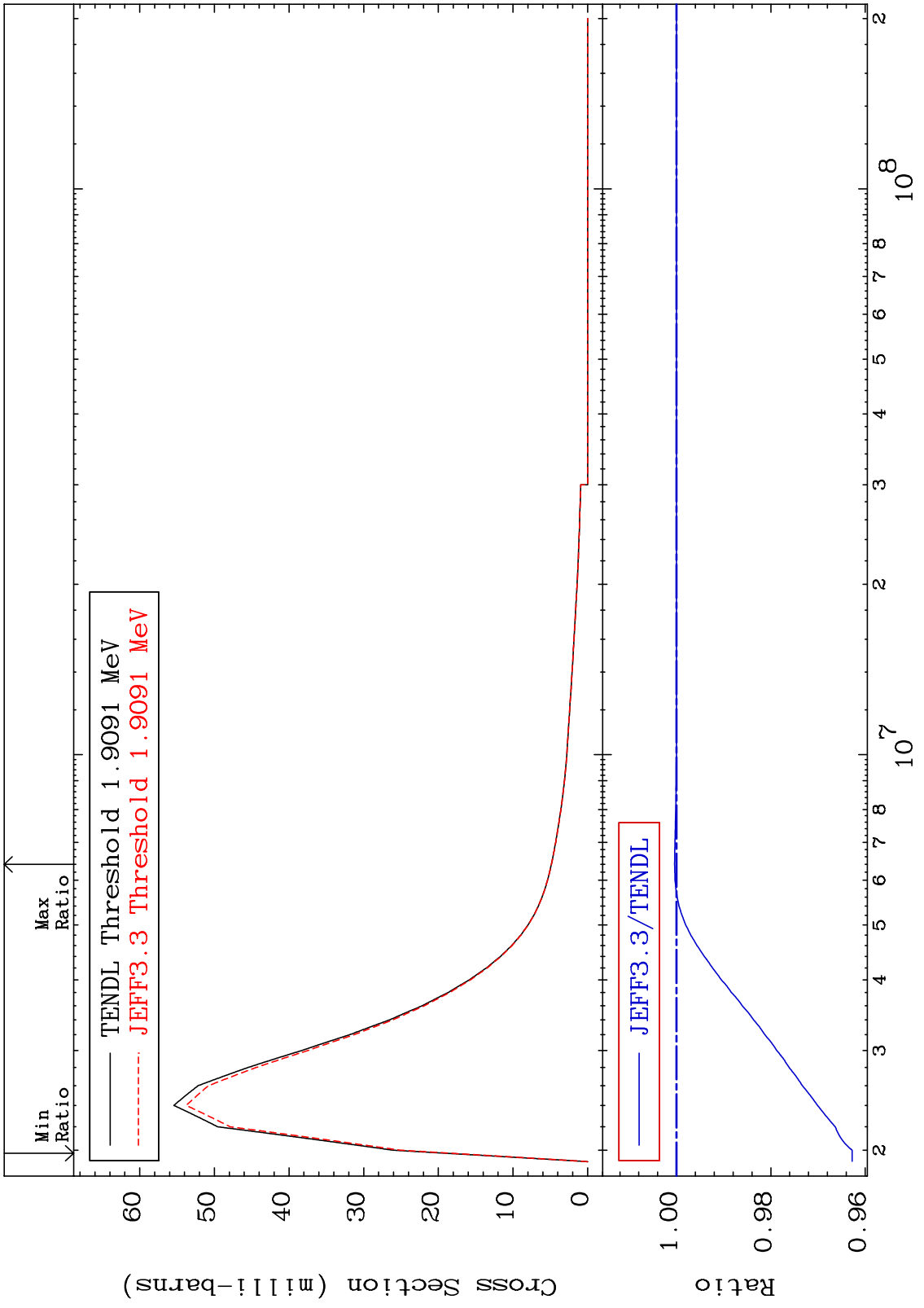
Incident Energy (eV)

80-Hg-198

MAT 8031

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

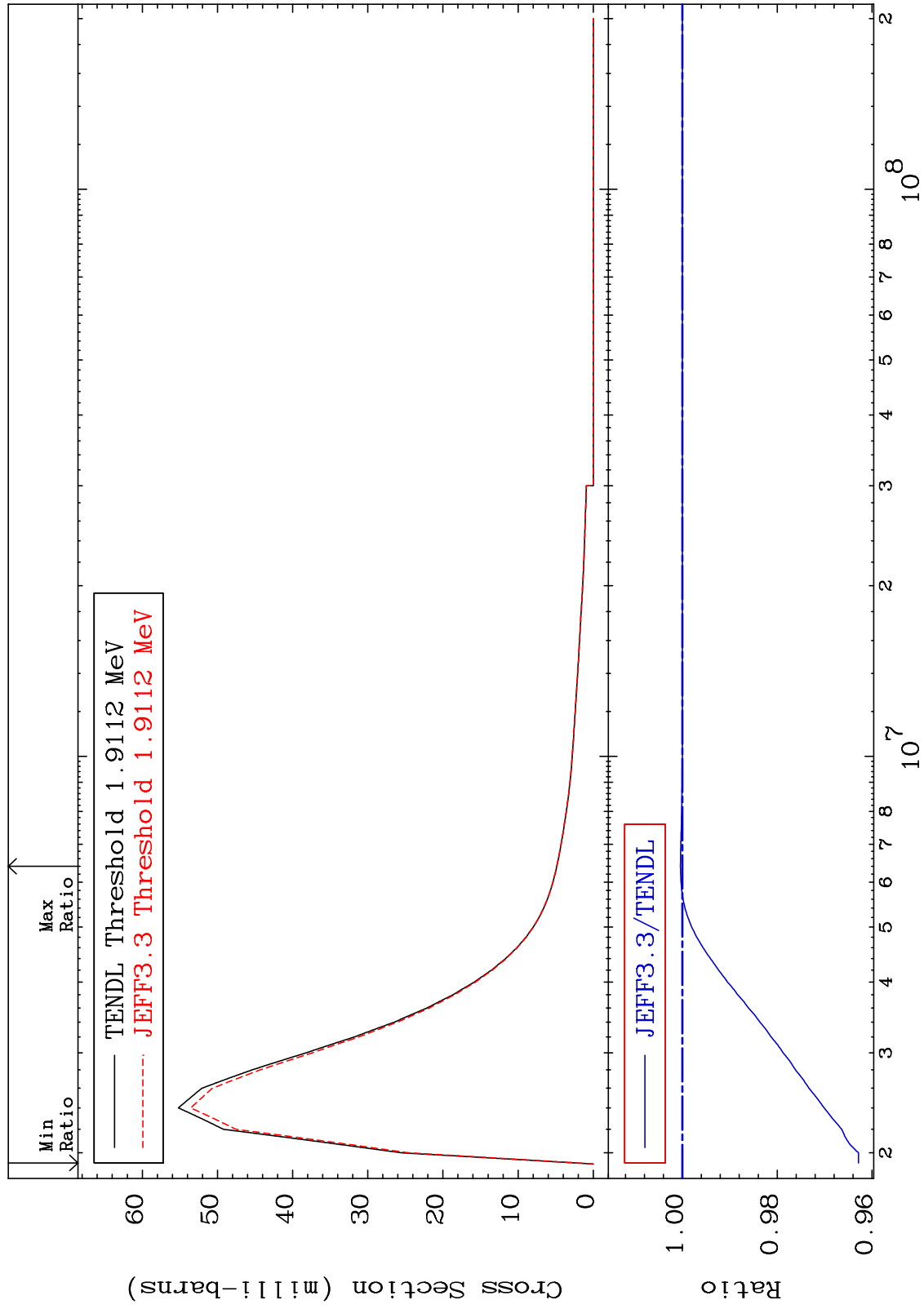
80-Hg-198  
-3.725 To 0.041 %



MAT 8031

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

80-Hg-198  
-3.717 To 0.041 %



37

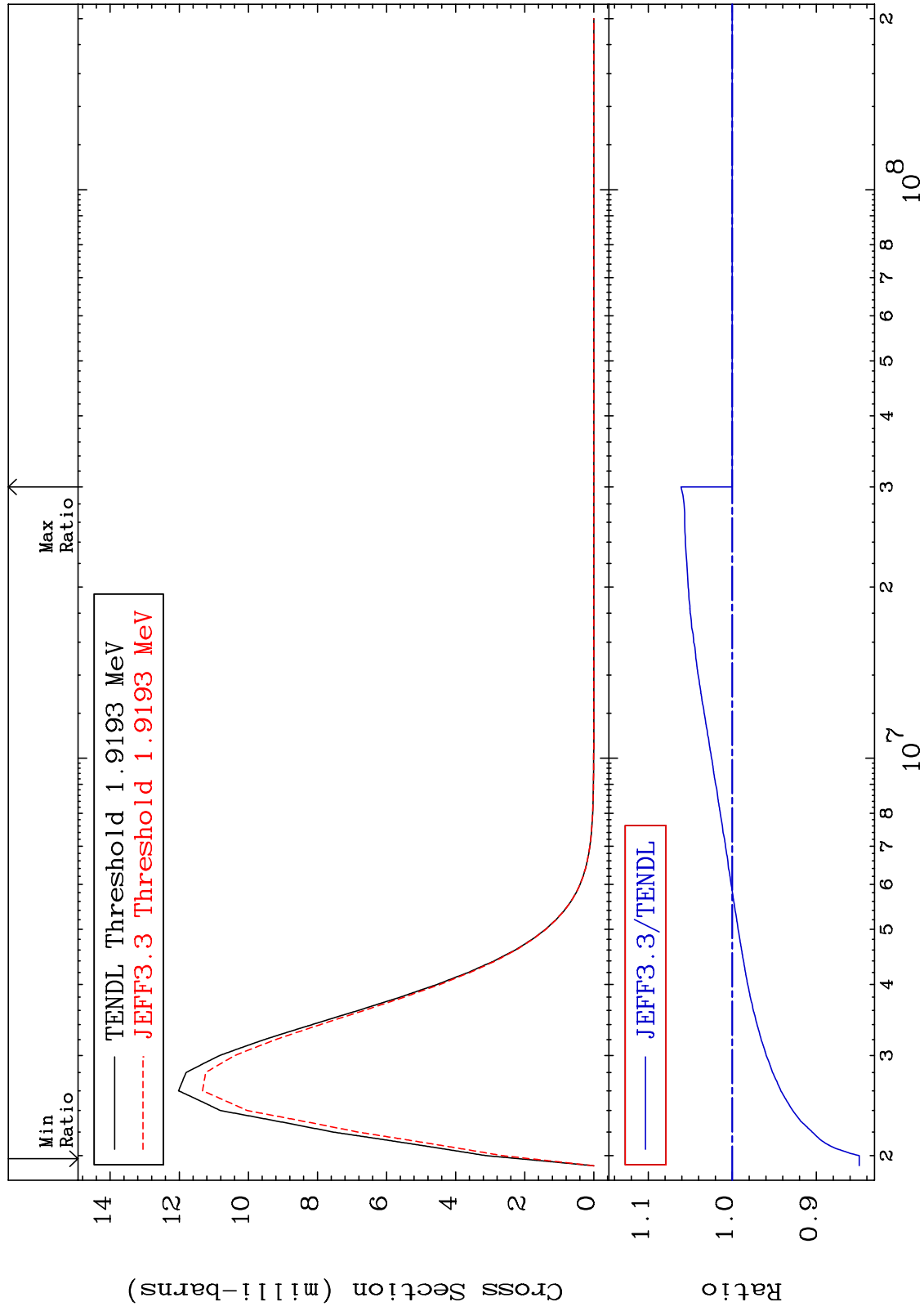
Incident Energy (eV)

80-Hg-198

MAT 8031

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

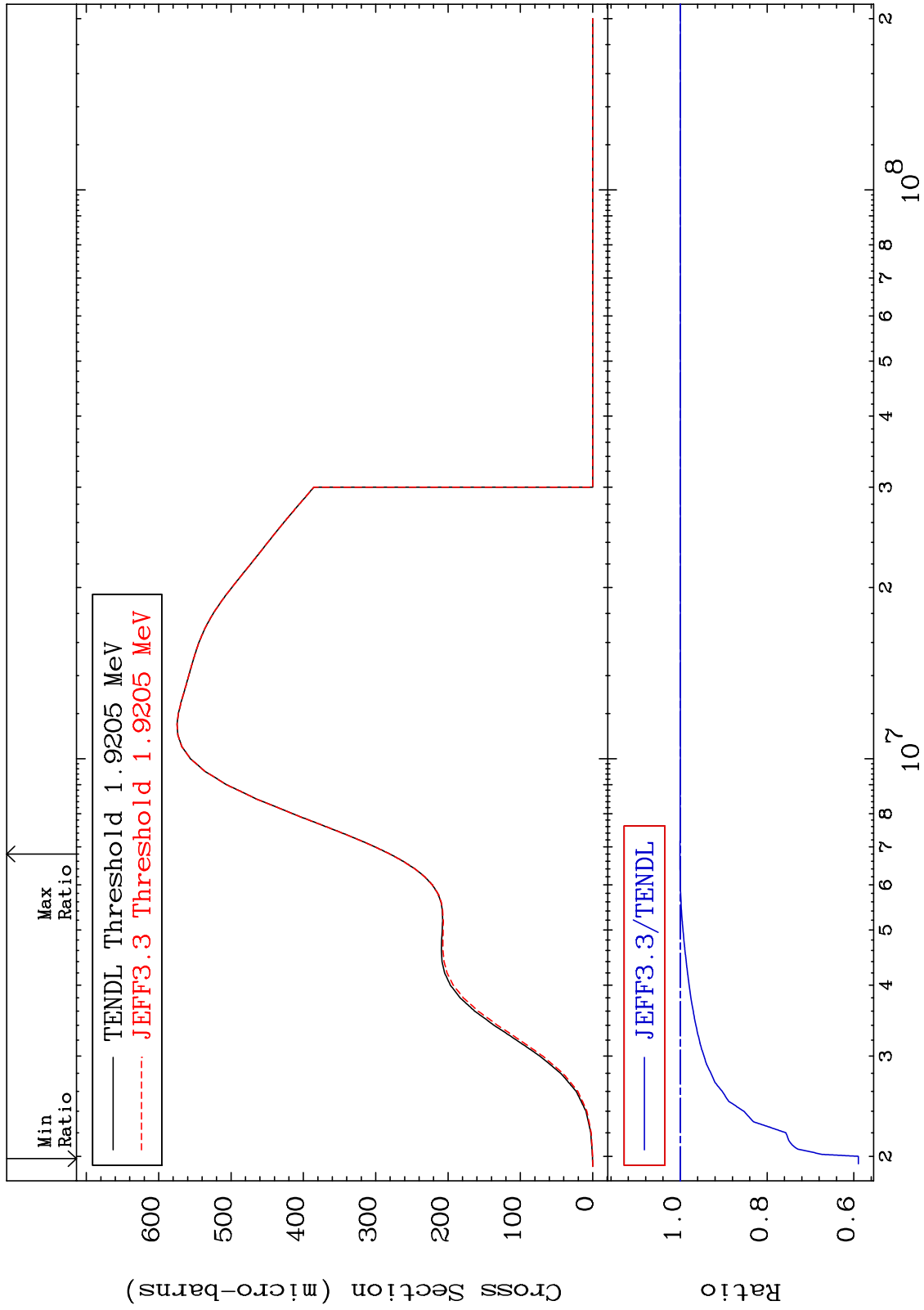
80-Hg-198  
-15.10 To 6.093 %



MAT 8031

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

80-Hg-198  
-41.05 To 0.078 %

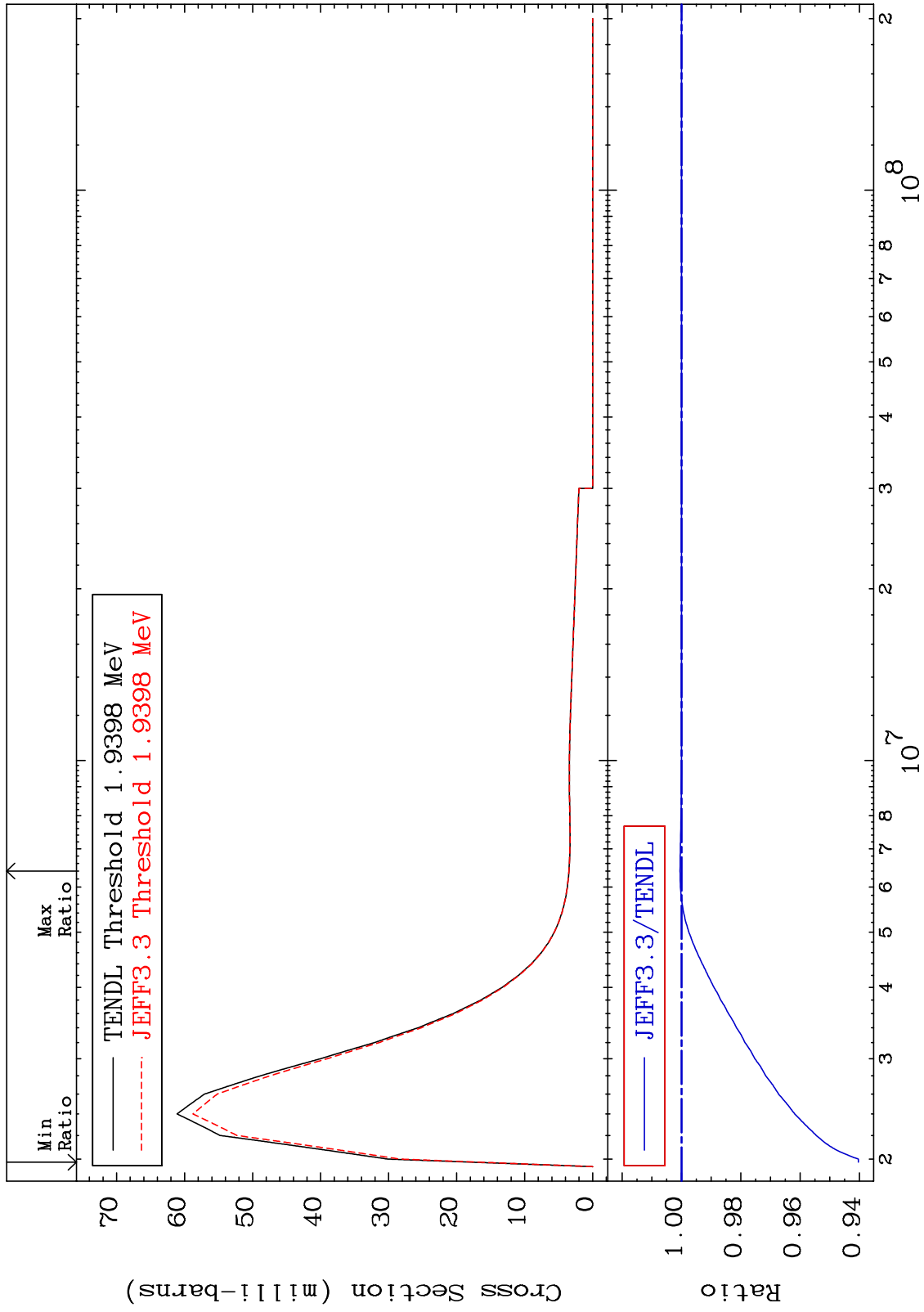




MAT 8031

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

80-Hg-198  
-5.963 To 0.052 %



40

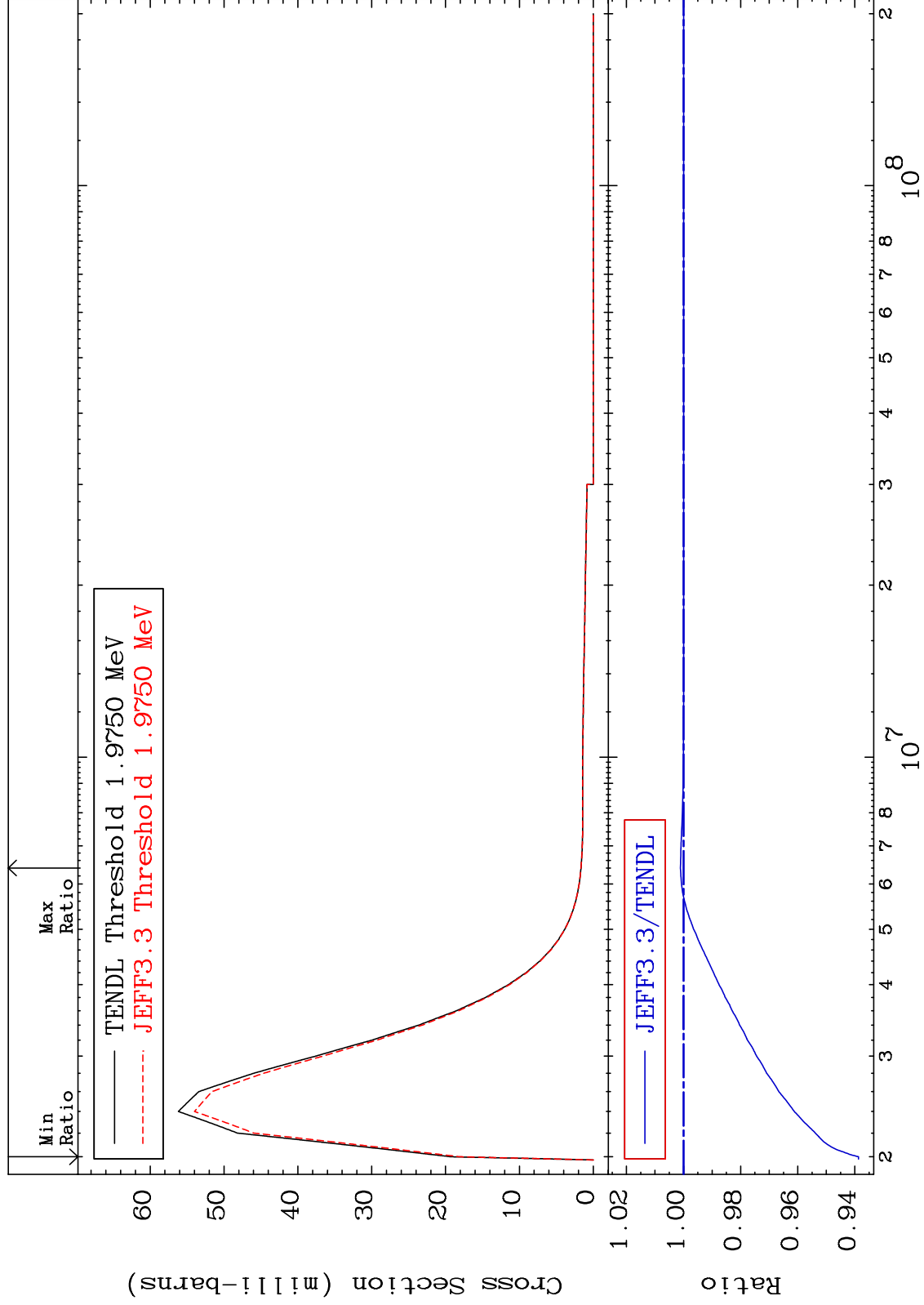
Incident Energy (eV)

80-Hg-198

MAT 8031

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

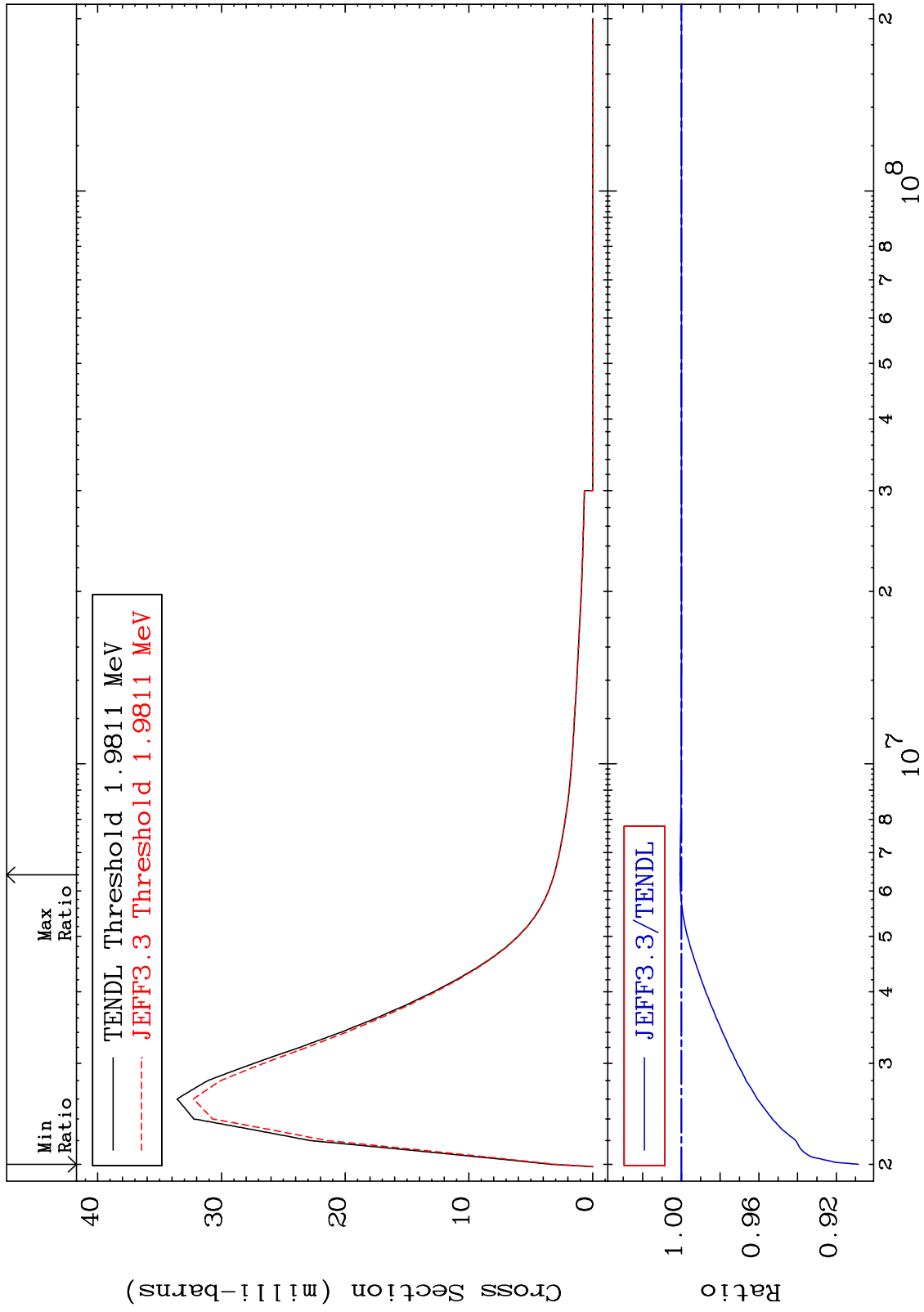
80-Hg-198  
-6.129 To 0.108 %



MAT 8031

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

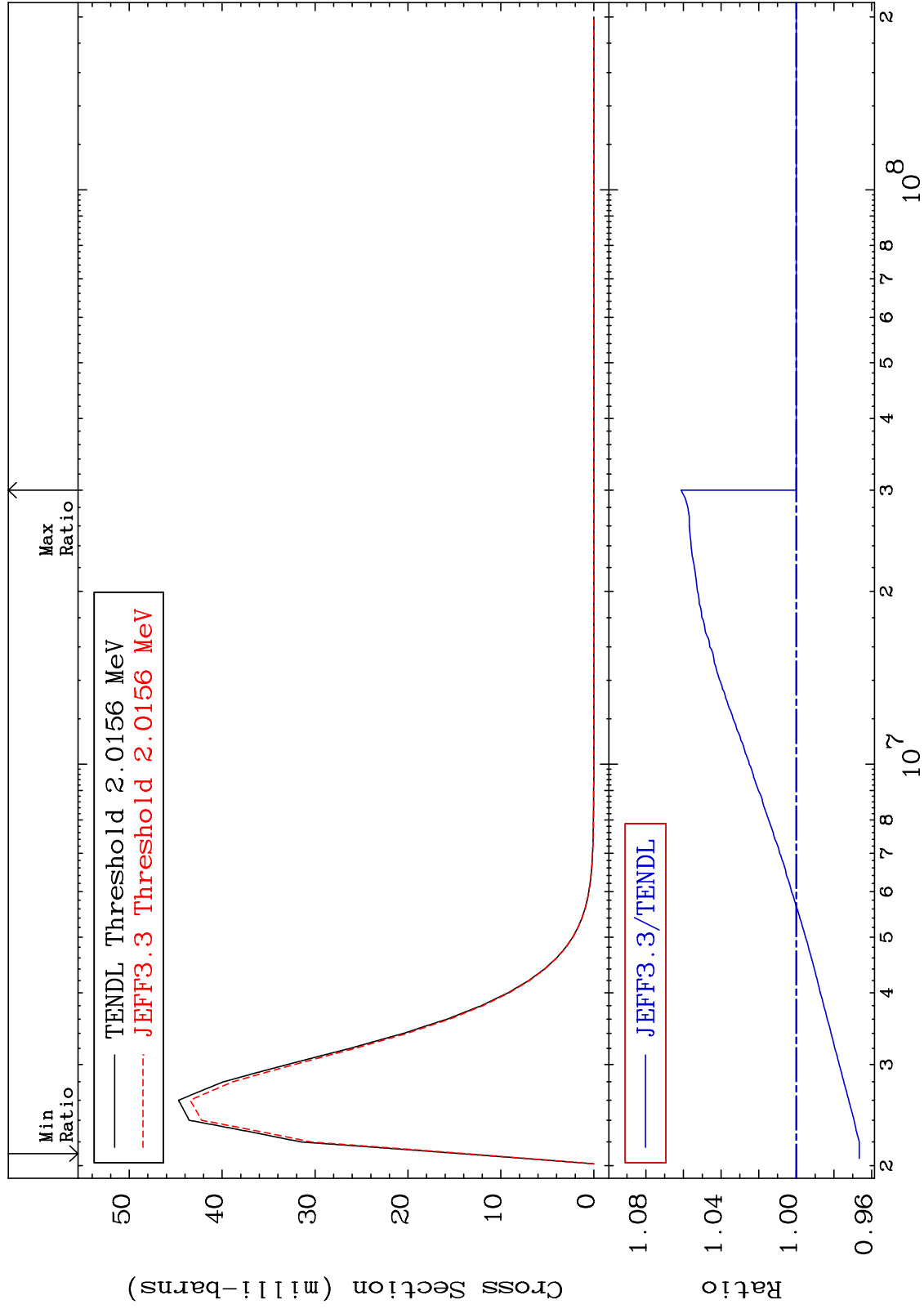
80-Hg-198  
-9.144 To 0.070 %



MAT 8031

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

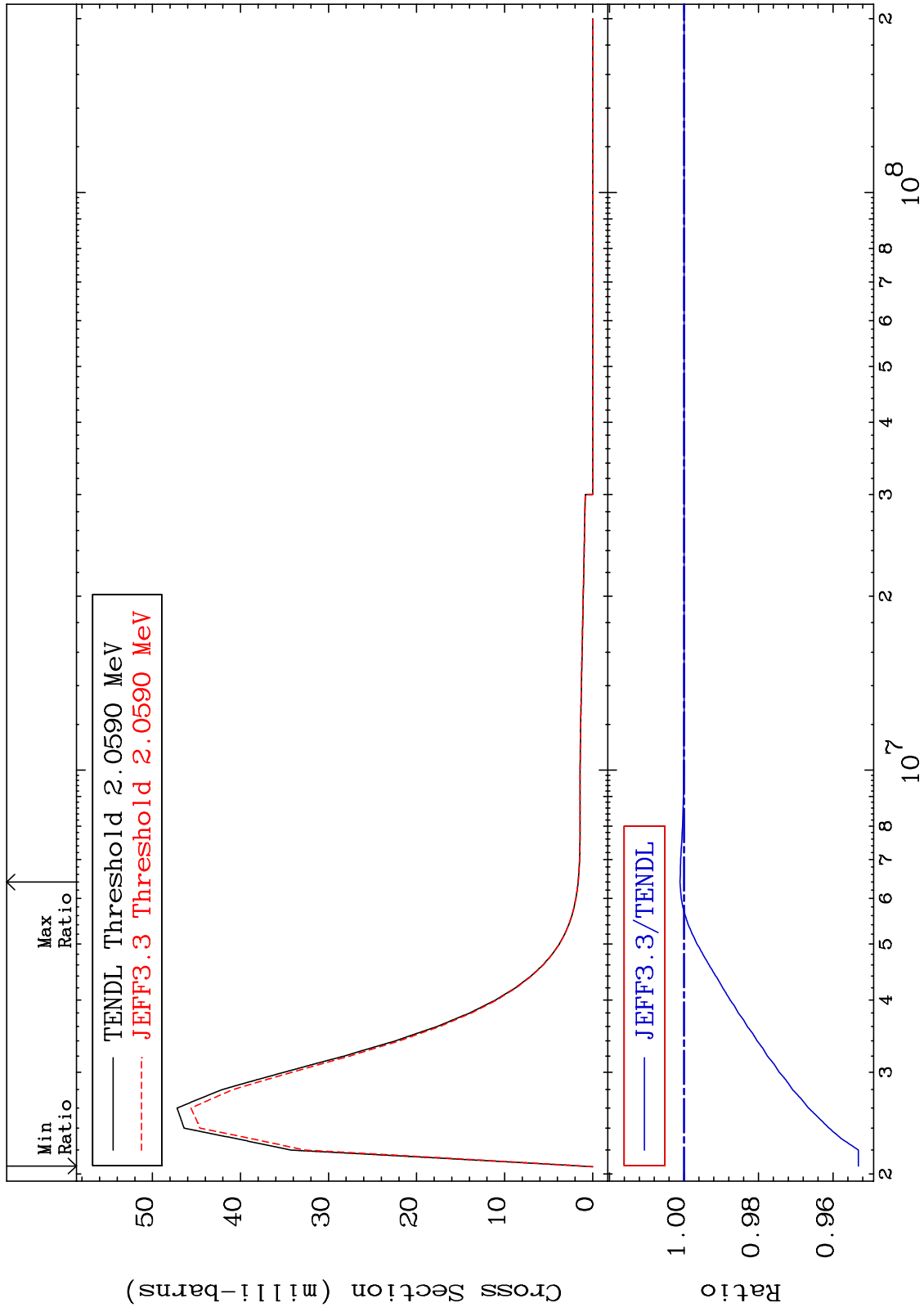
80-Hg-198  
-3.347 To 6.129 %



MAT 8031

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

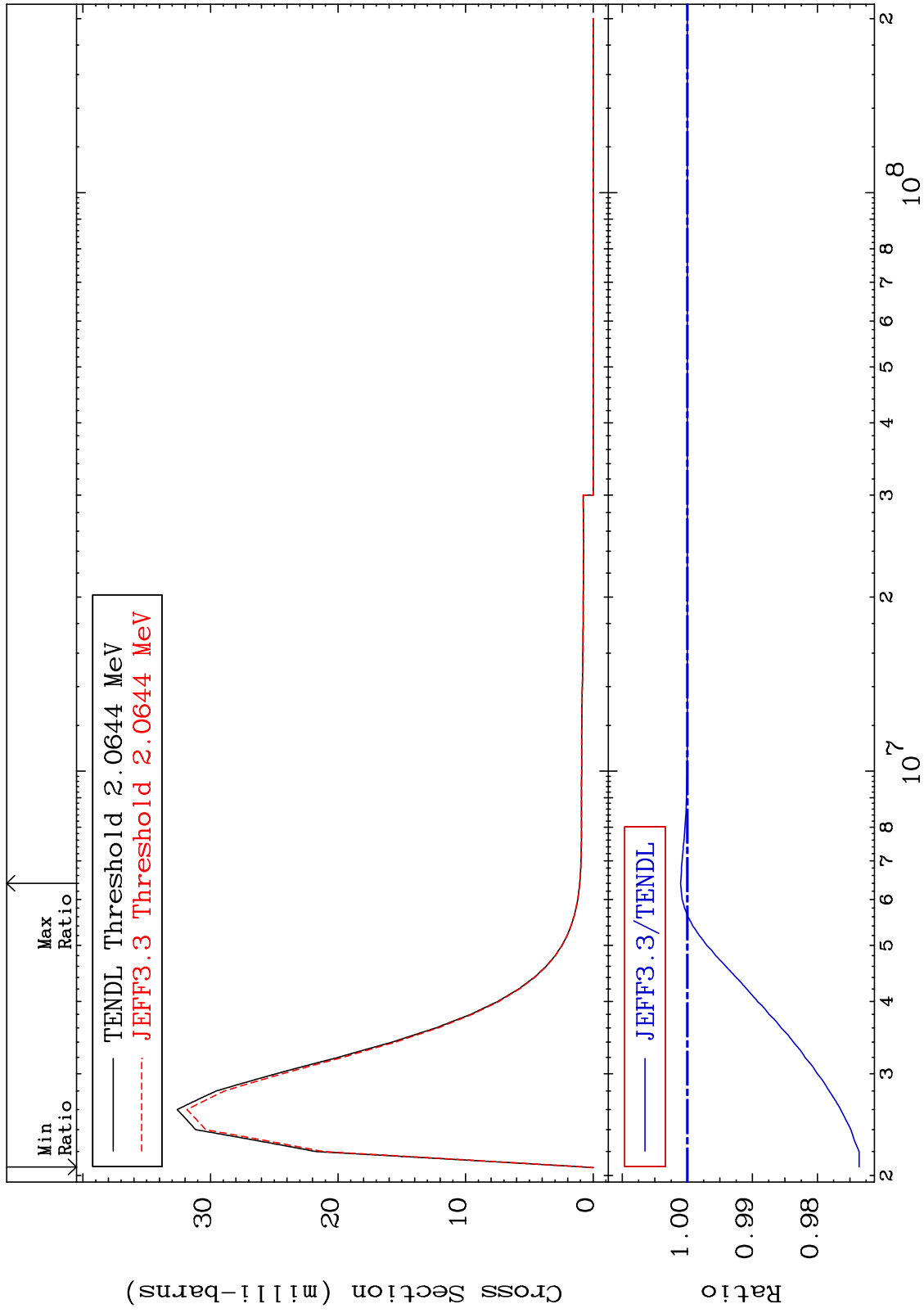
80-Hg-198  
-4.682 To 0.107 %



MAT 8031

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

80-Hg-198  
-2.642 To 0.104 %



45

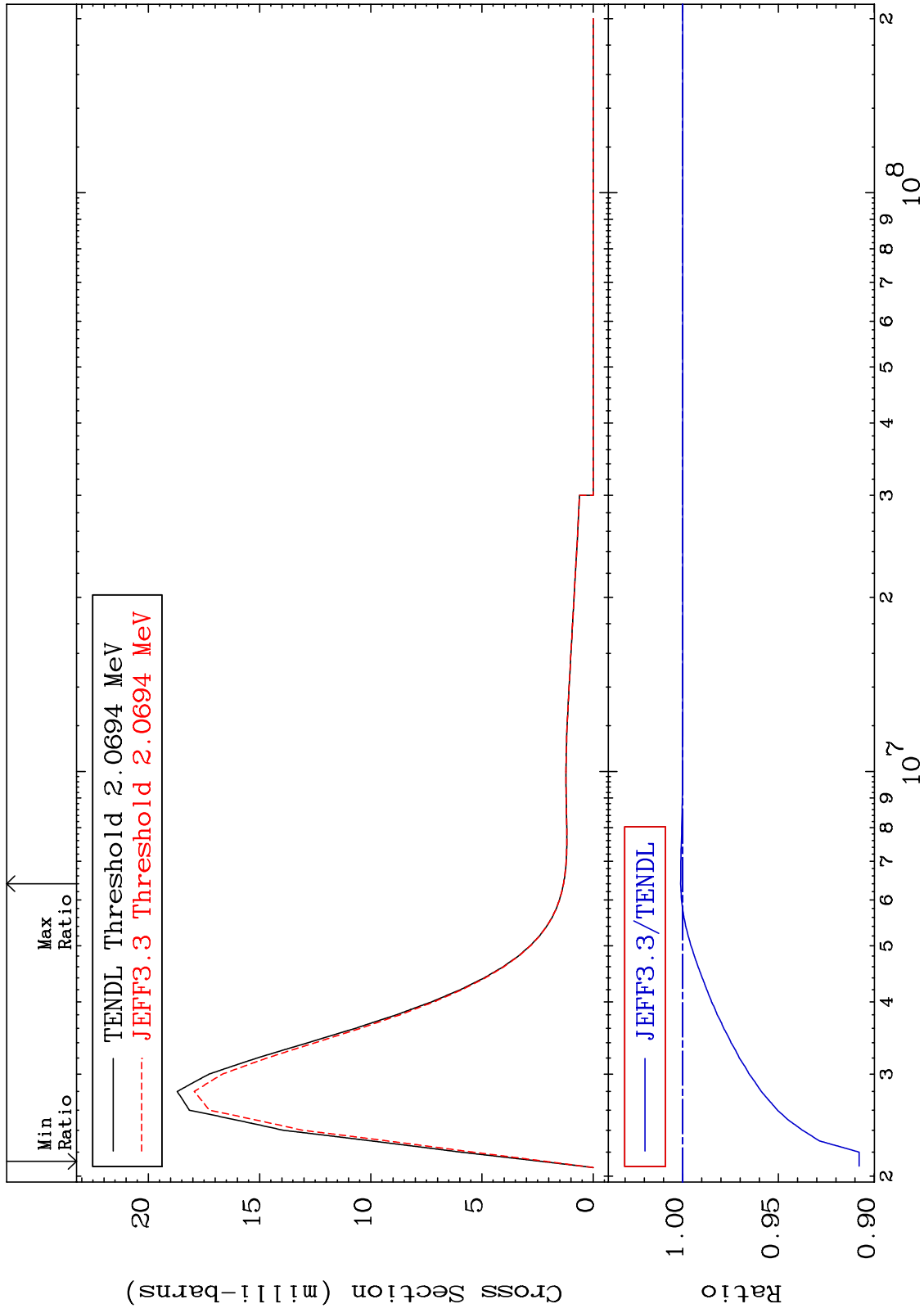
Incident Energy (eV)

80-Hg-198

MAT 8031

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

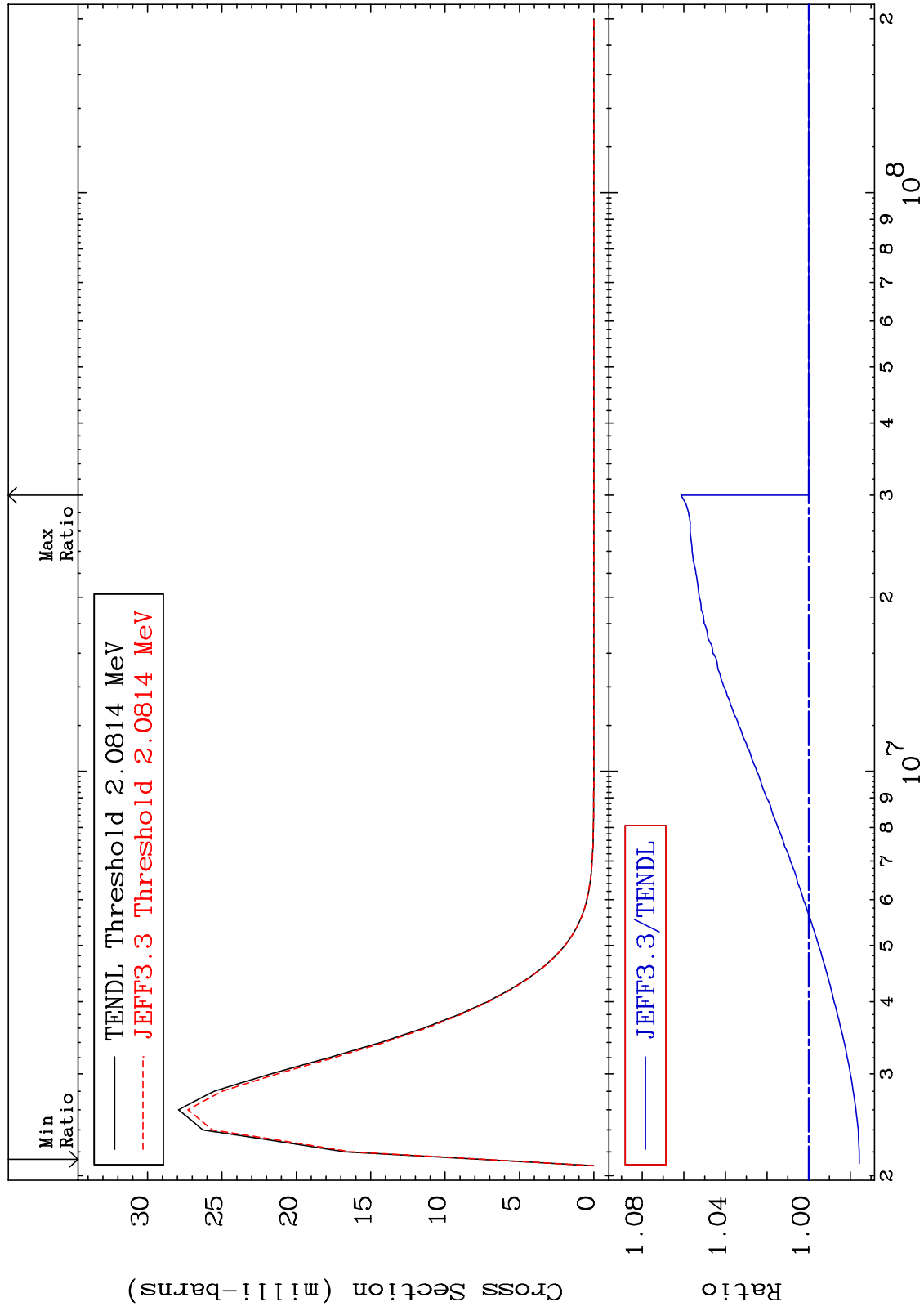
80-Hg-198  
-9.214 To 0.106 %



MAT 8031

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

80-Hg-198  
-2.434 To 6.136 %

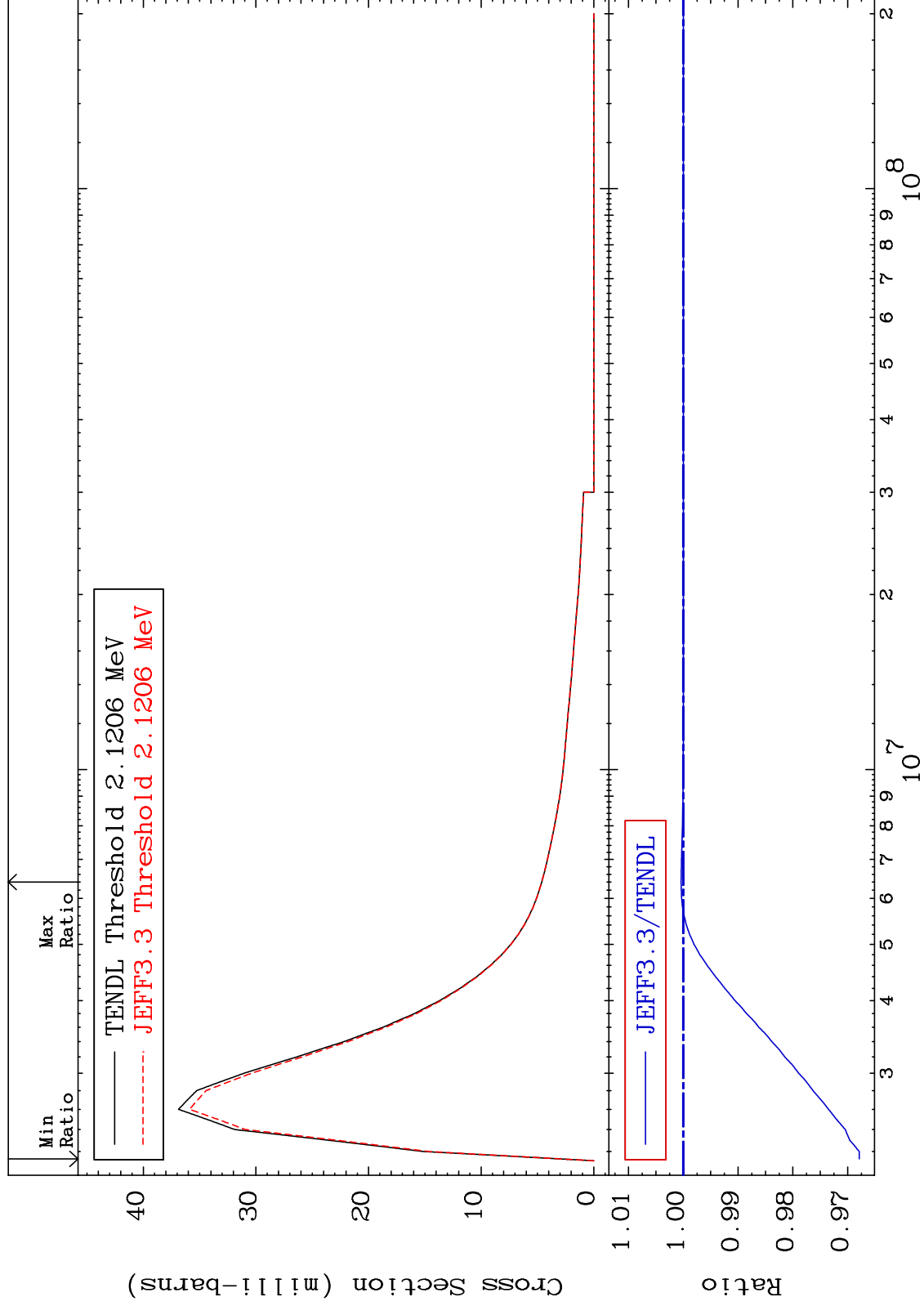




MAT 8031

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

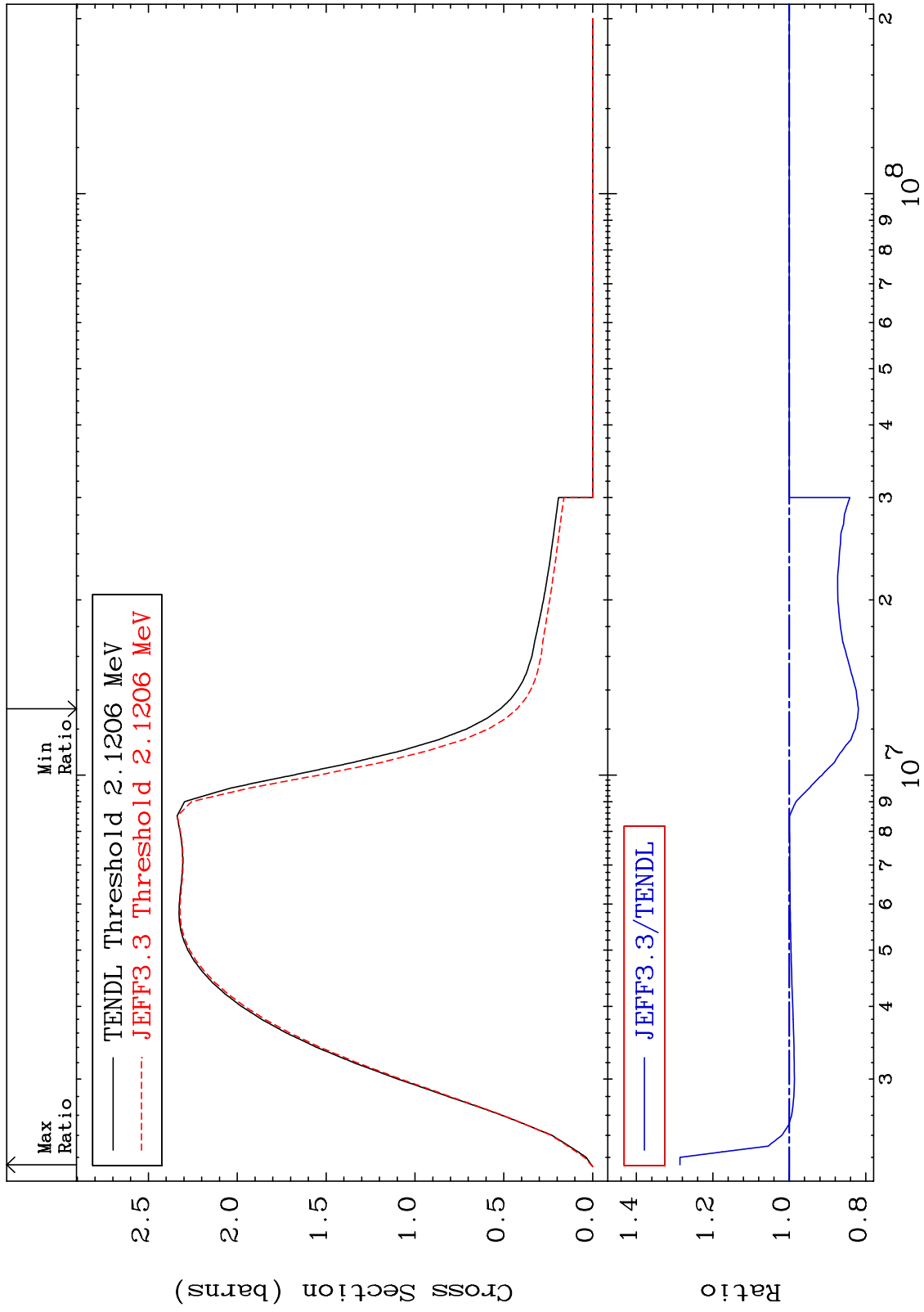
80-Hg-198  
-3.213 To 0.042 %



MAT 8031

(n, n') Continuum  
Cross Section

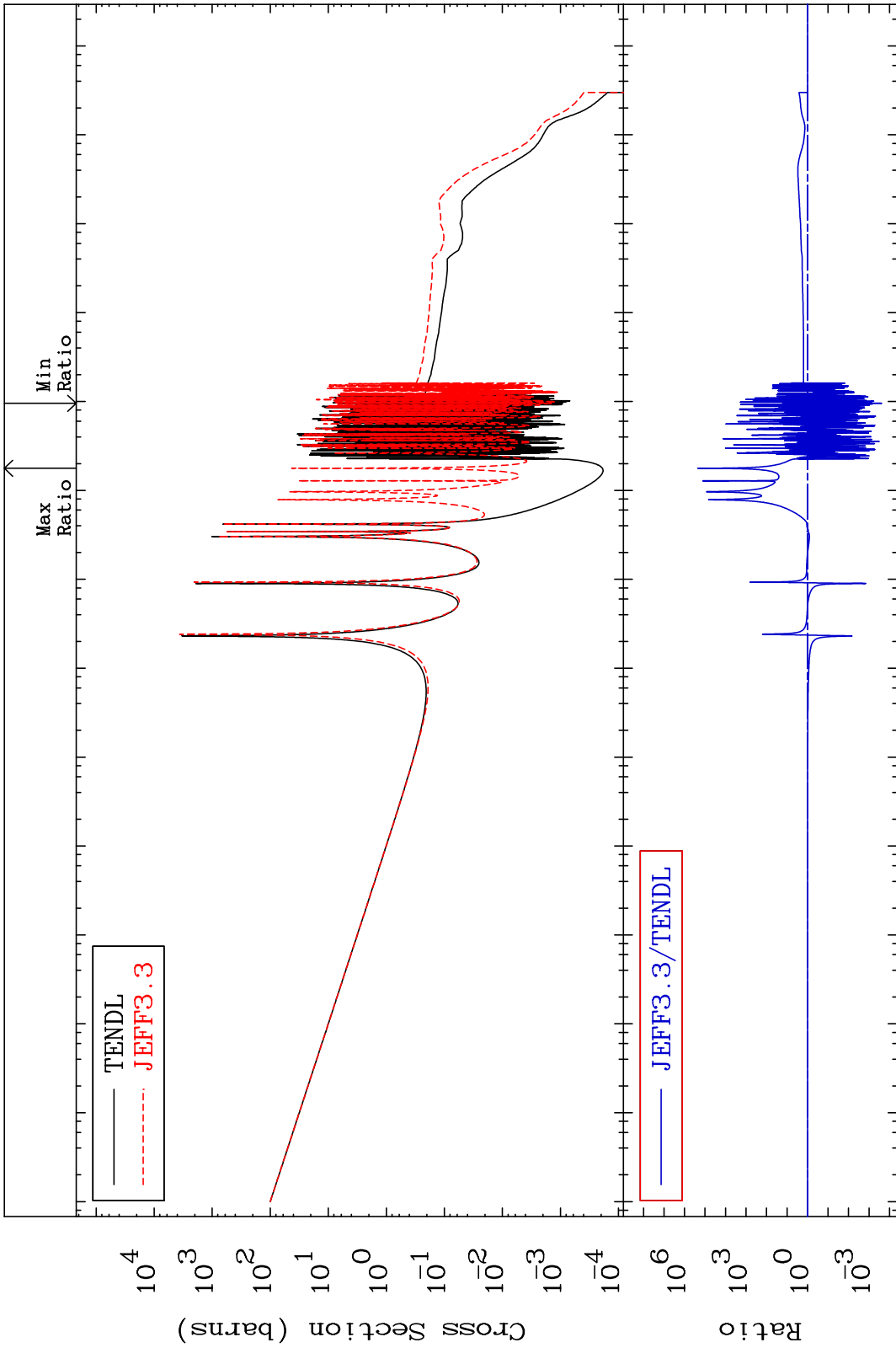
80-Hg-198  
-18.08 To 28.59 %



MAT 8031

(n,  $\gamma$ )  
Cross Section

80-Hg-198  
-99.98 To 9999. %



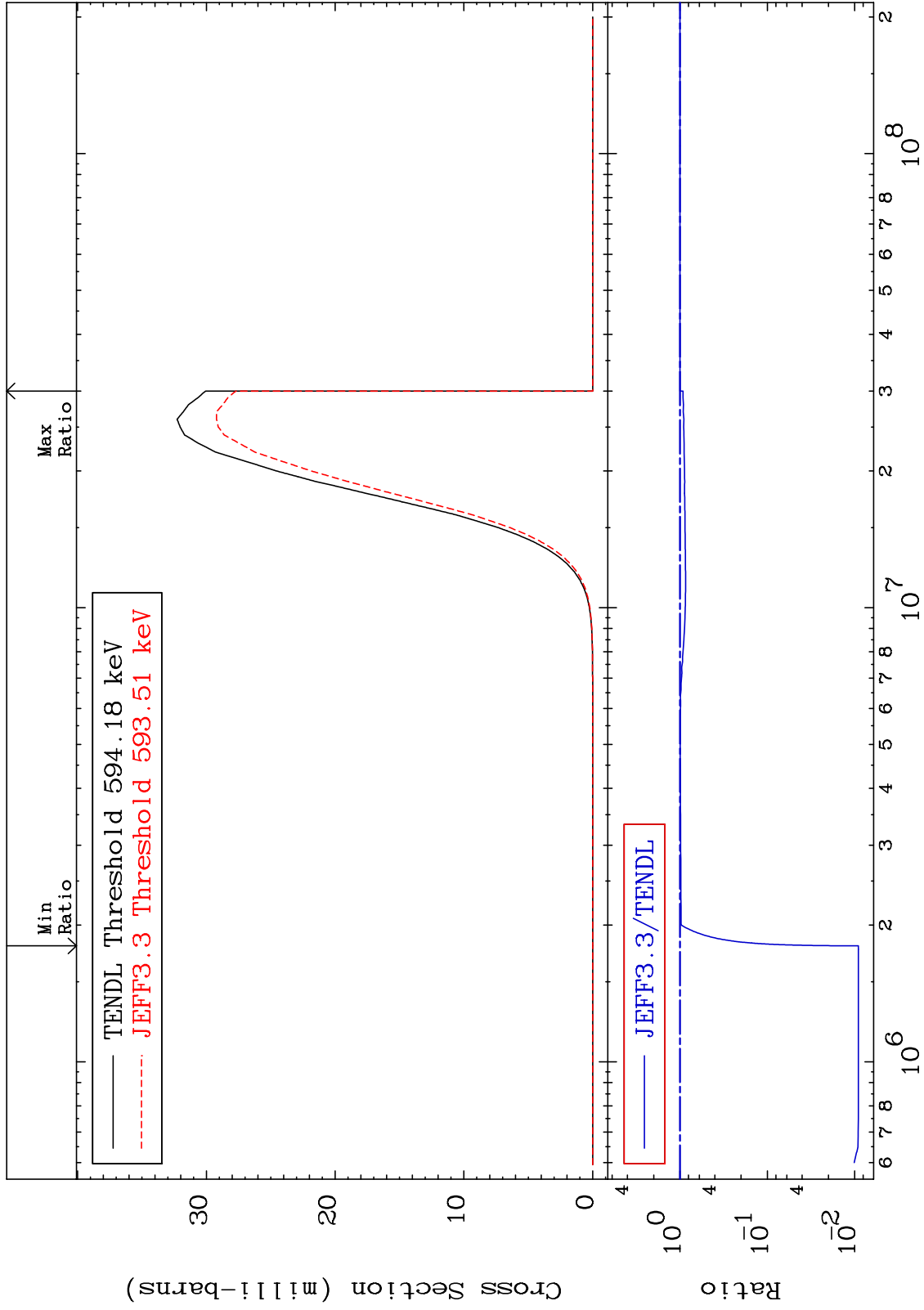
MAT 8031

(n, p)

80-Hg-198

Cross Section

-99.09 To 0.000 %



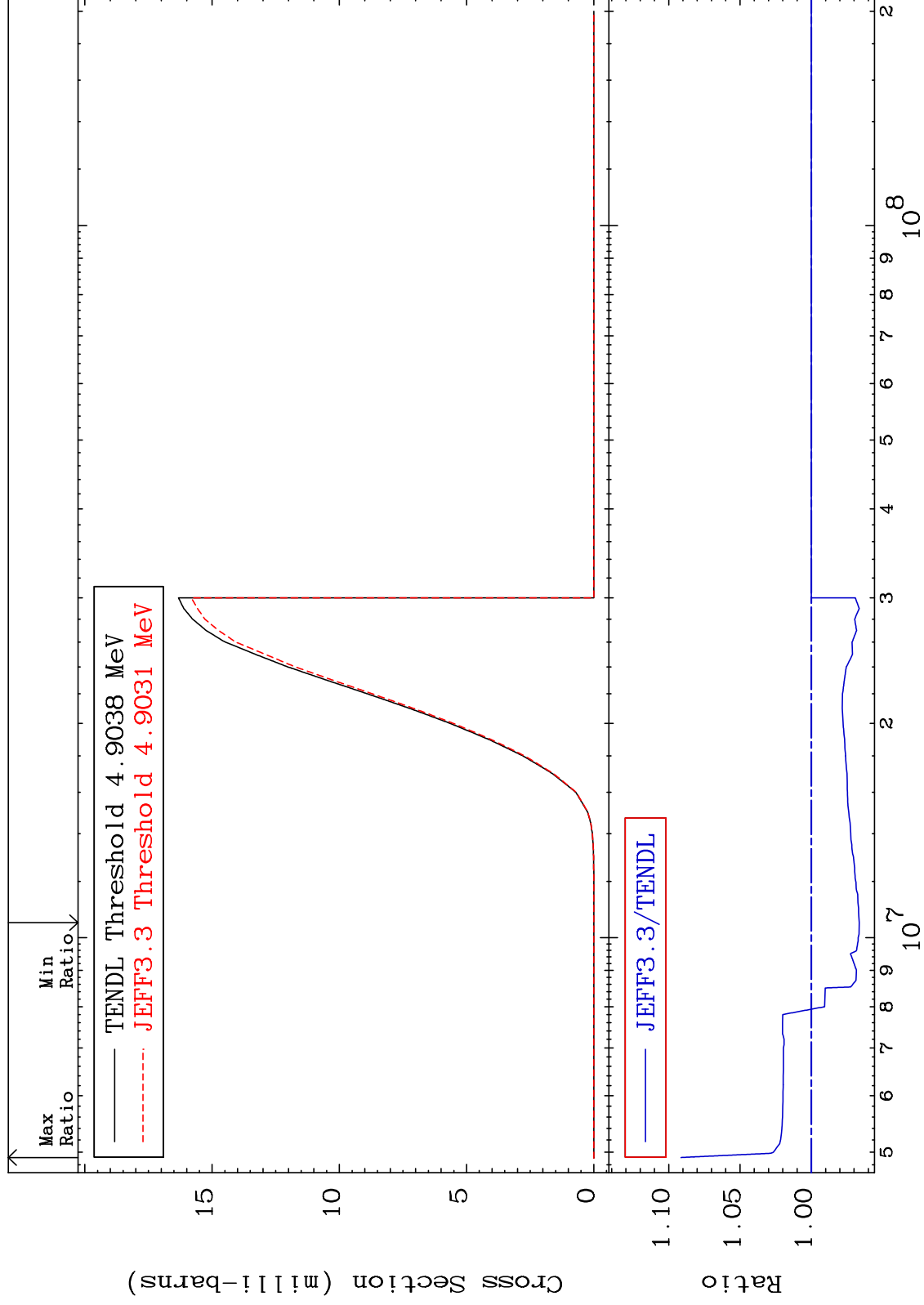
MAT 8031

(n, d)

80-Hg-198

Cross Section

-3.364 To 9.134 %



52

Incident Energy (eV)

80-Hg-198

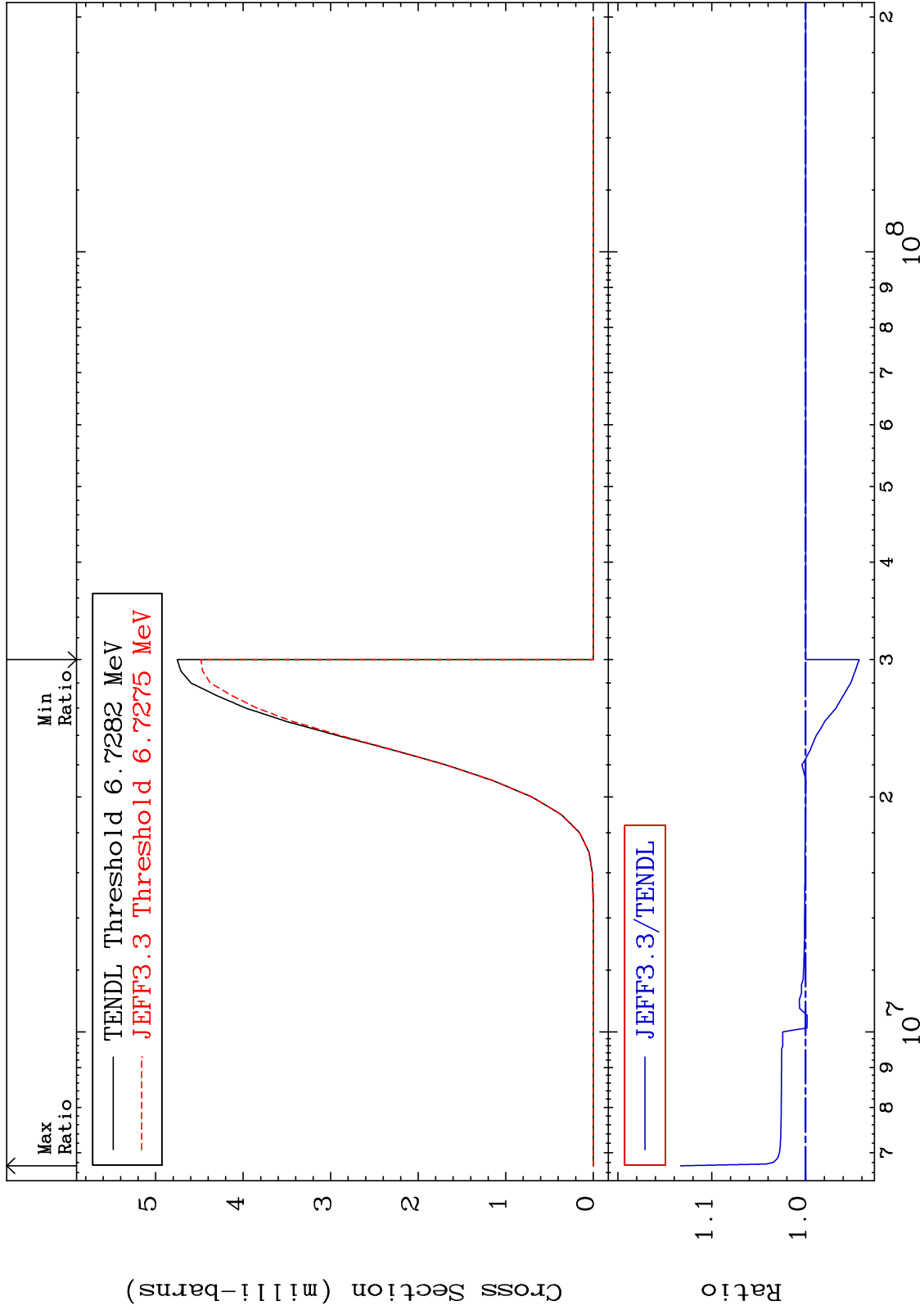
MAT 8031

(n, t)

80-Hg-198

Cross Section

-5.713 To 13.32 %



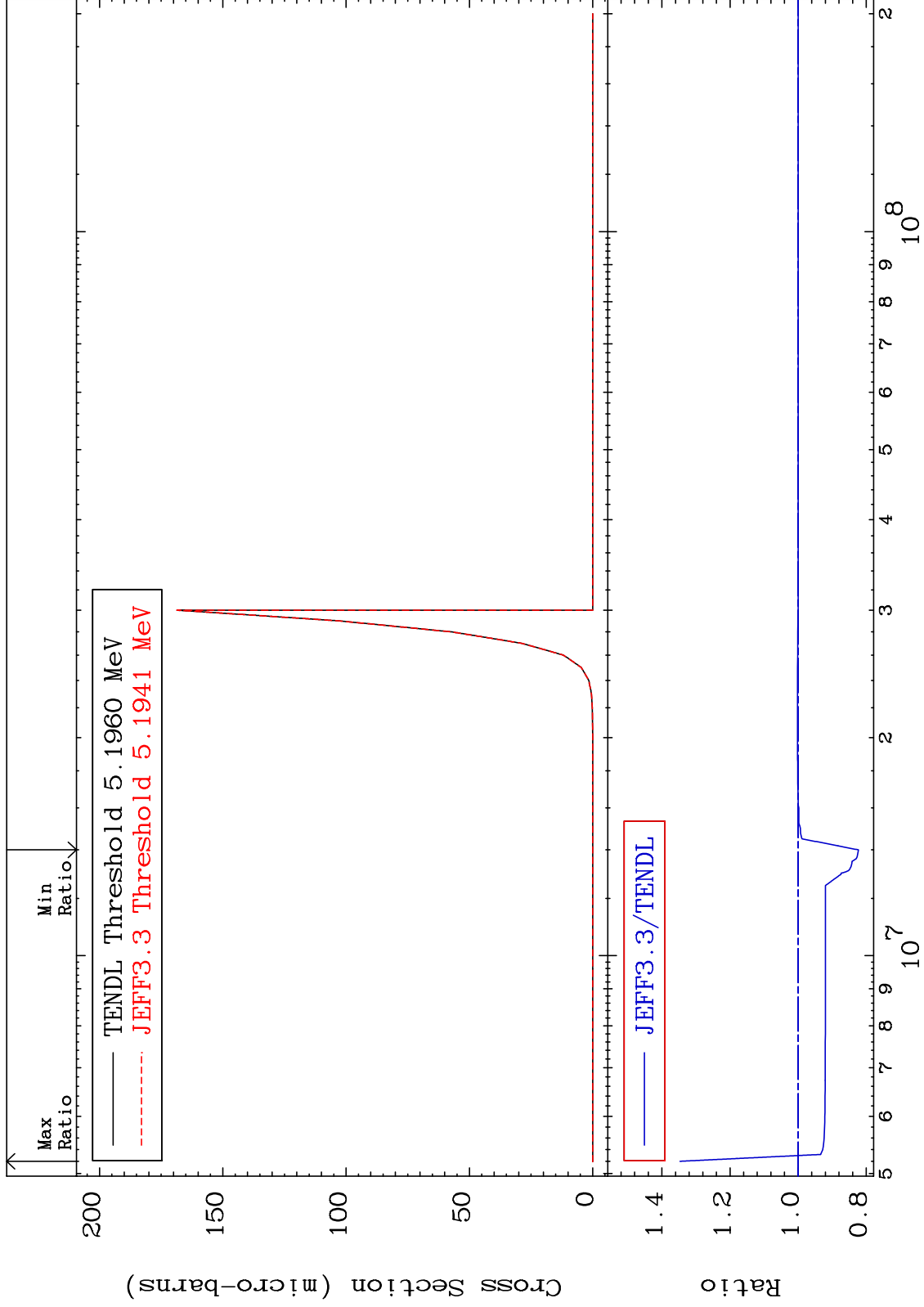
MAT 8031

(n, He-3)

80-Hg-198

Cross Section

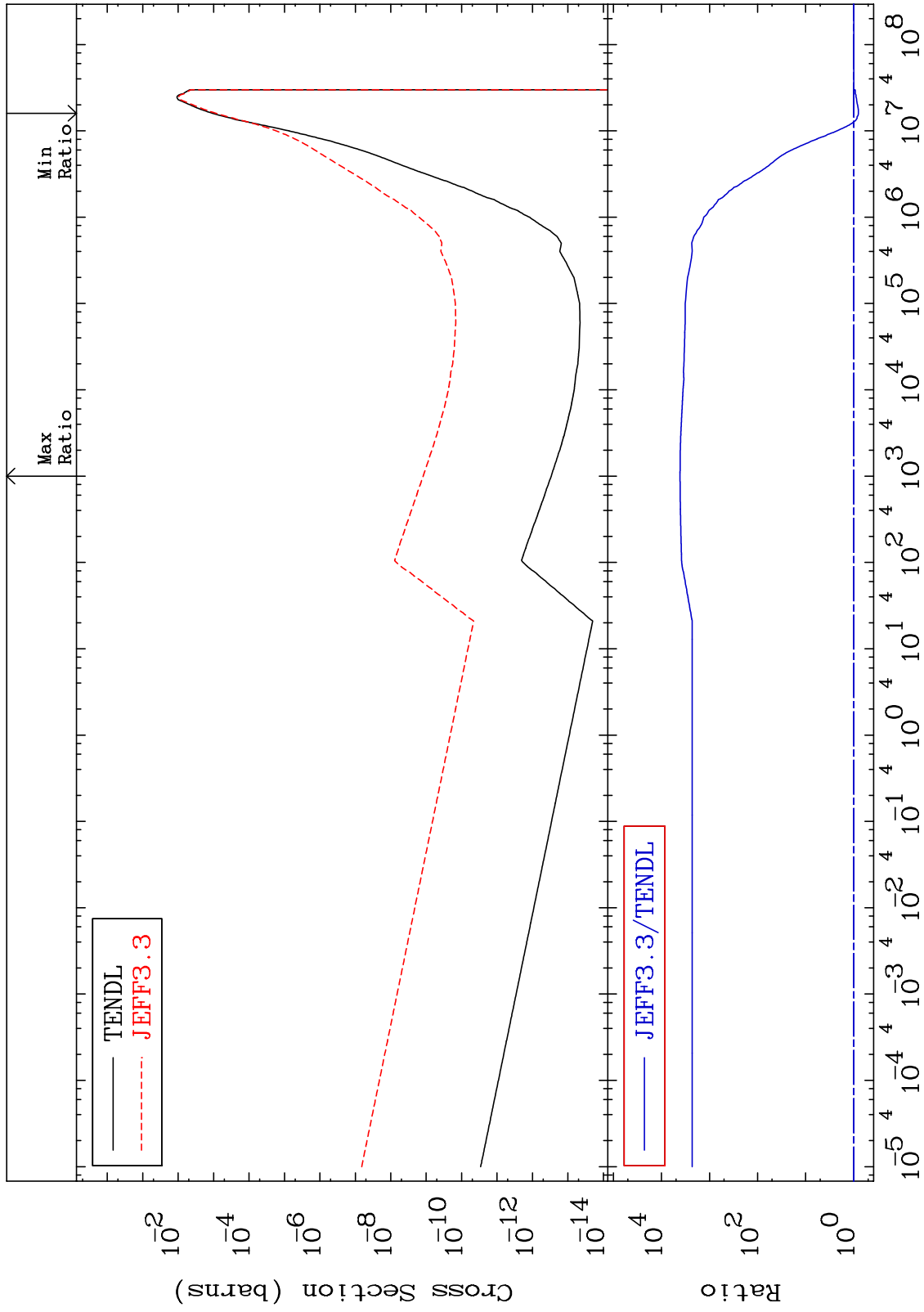
-17.71 To 34.68 %



MAT 8031

(n,  $\alpha$ )  
Cross Section

80-Hg-198  
-19.96 To 9999. %



55

Incident Energy (eV)

80-Hg-198



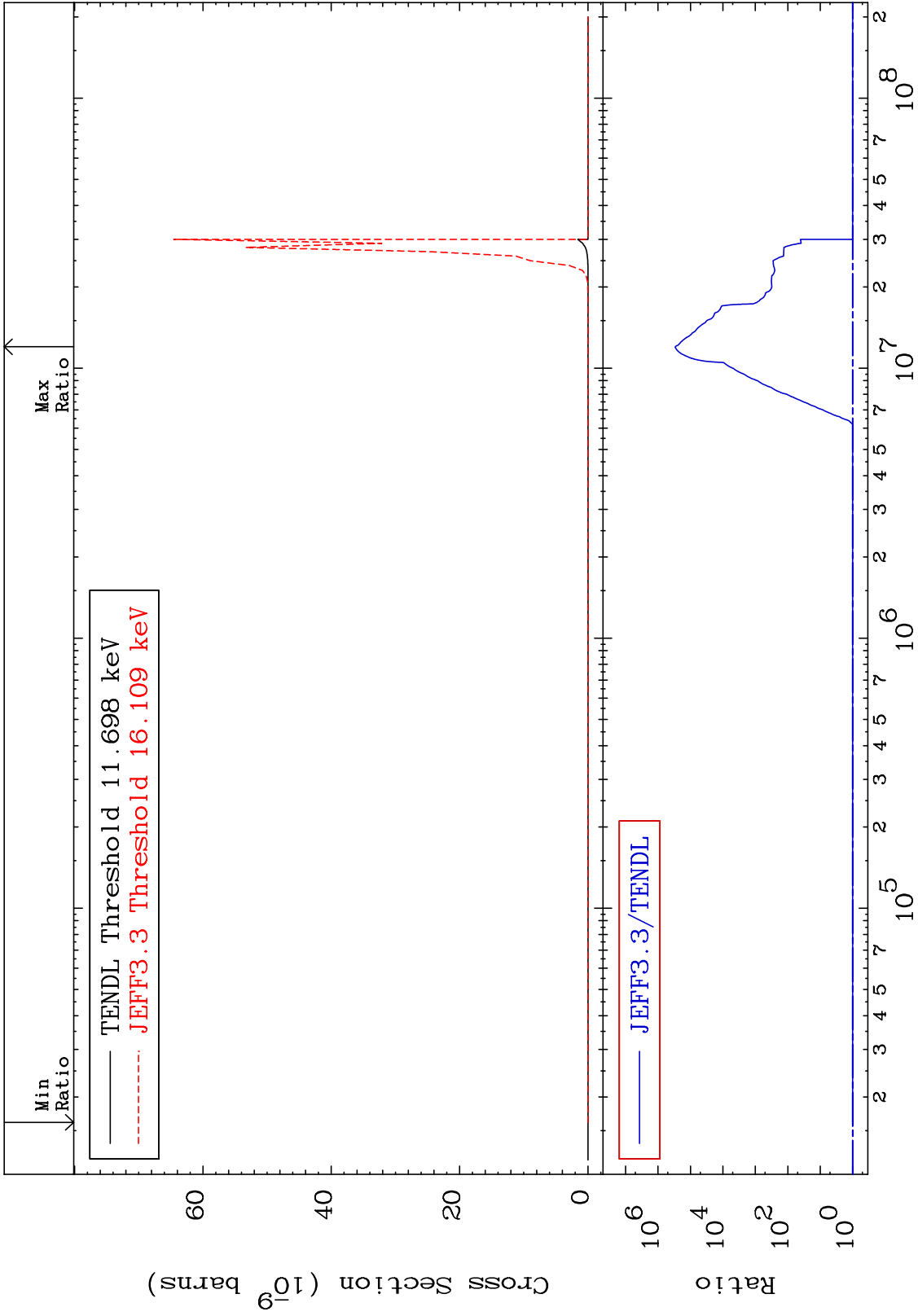
MAT 8031

(n,2α)

80-Hg-198

Cross Section

0.000 To 9999. %



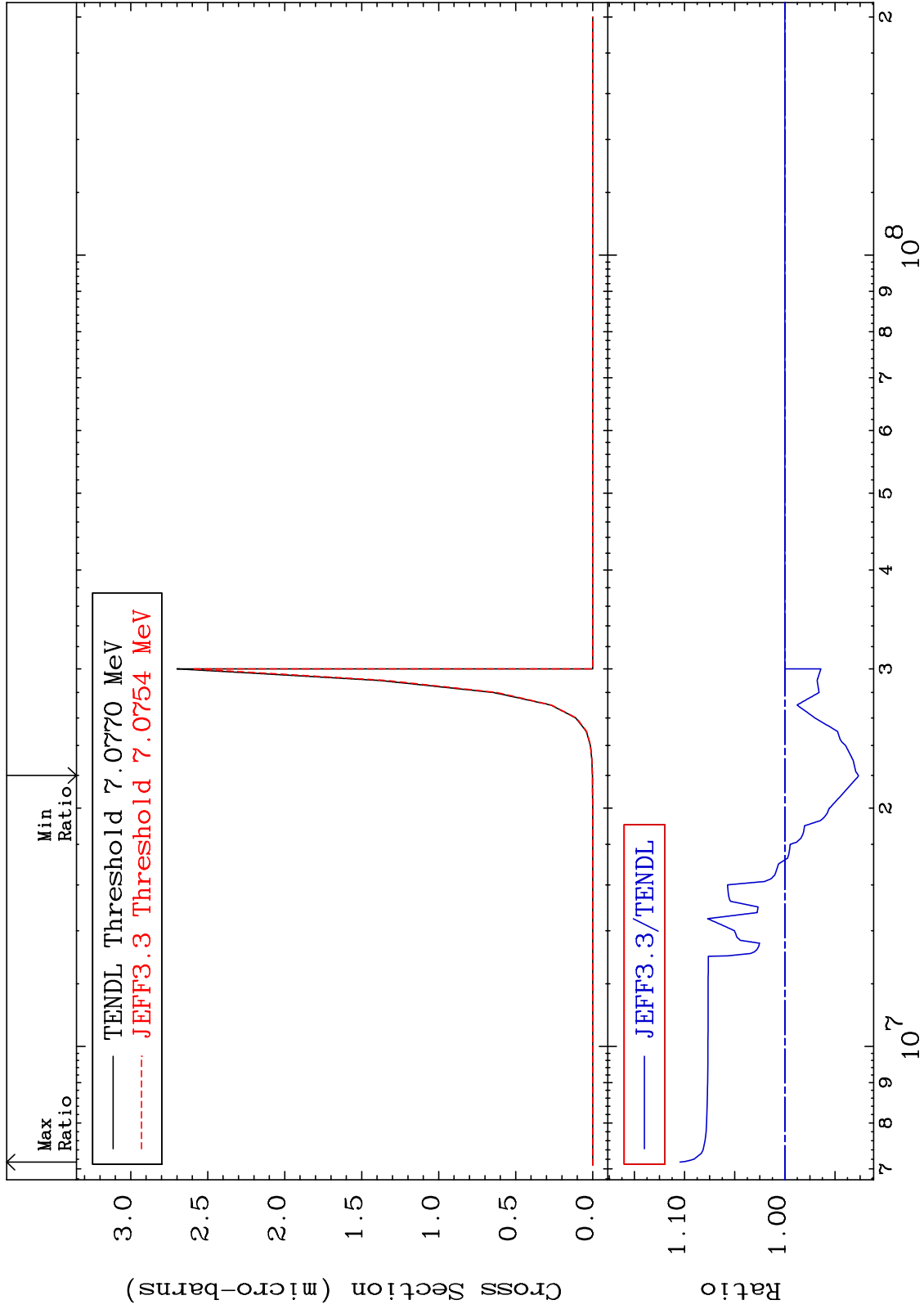
MAT 8031

(n,2p)

80-Hg-198

Cross Section

-7.335 To 10.46 %



57

Incident Energy (eV)

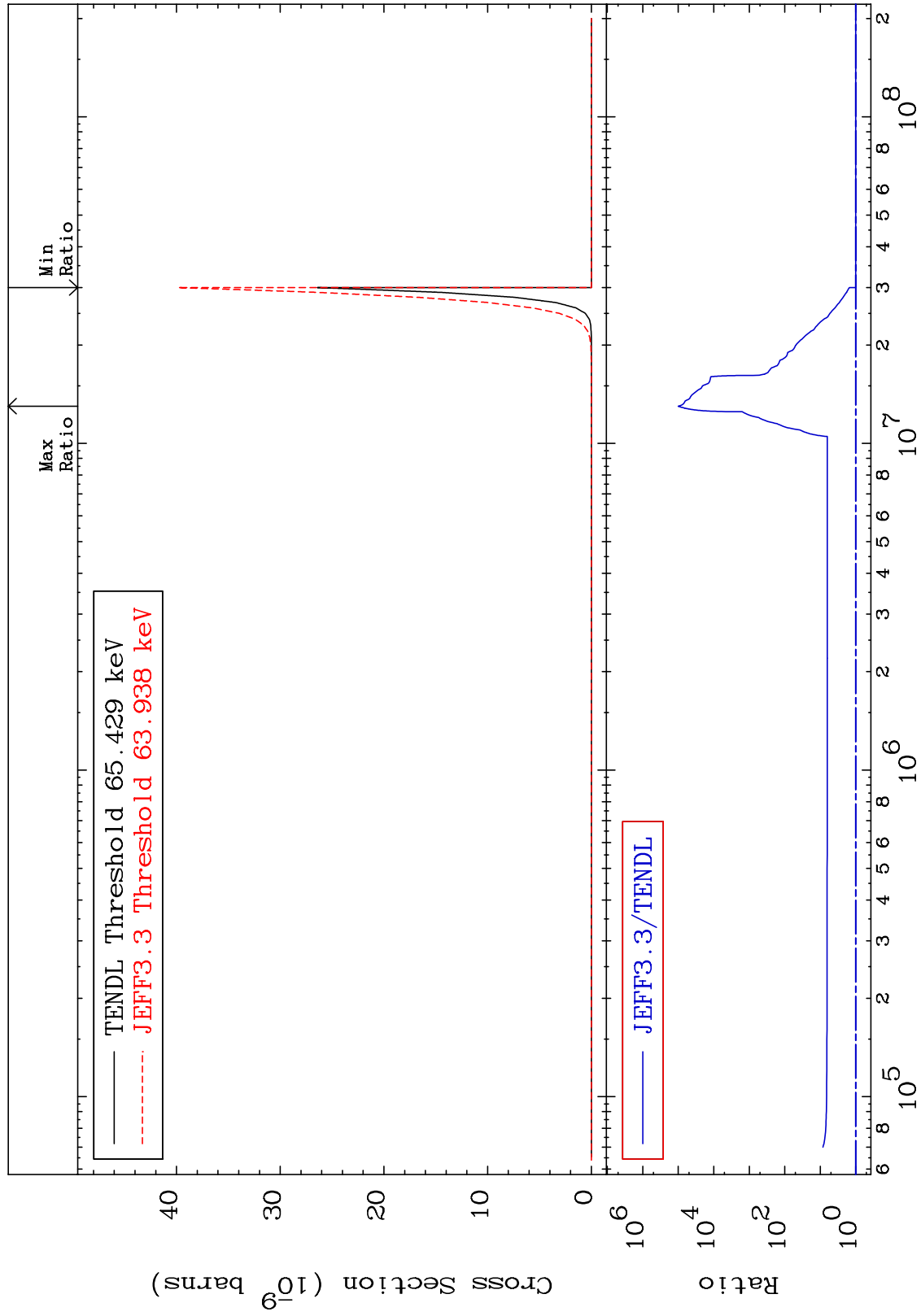
80-Hg-198

MAT 8031

(n,p)  $\alpha$

80-Hg-198  
To 9999. %  
0.000

Cross Section



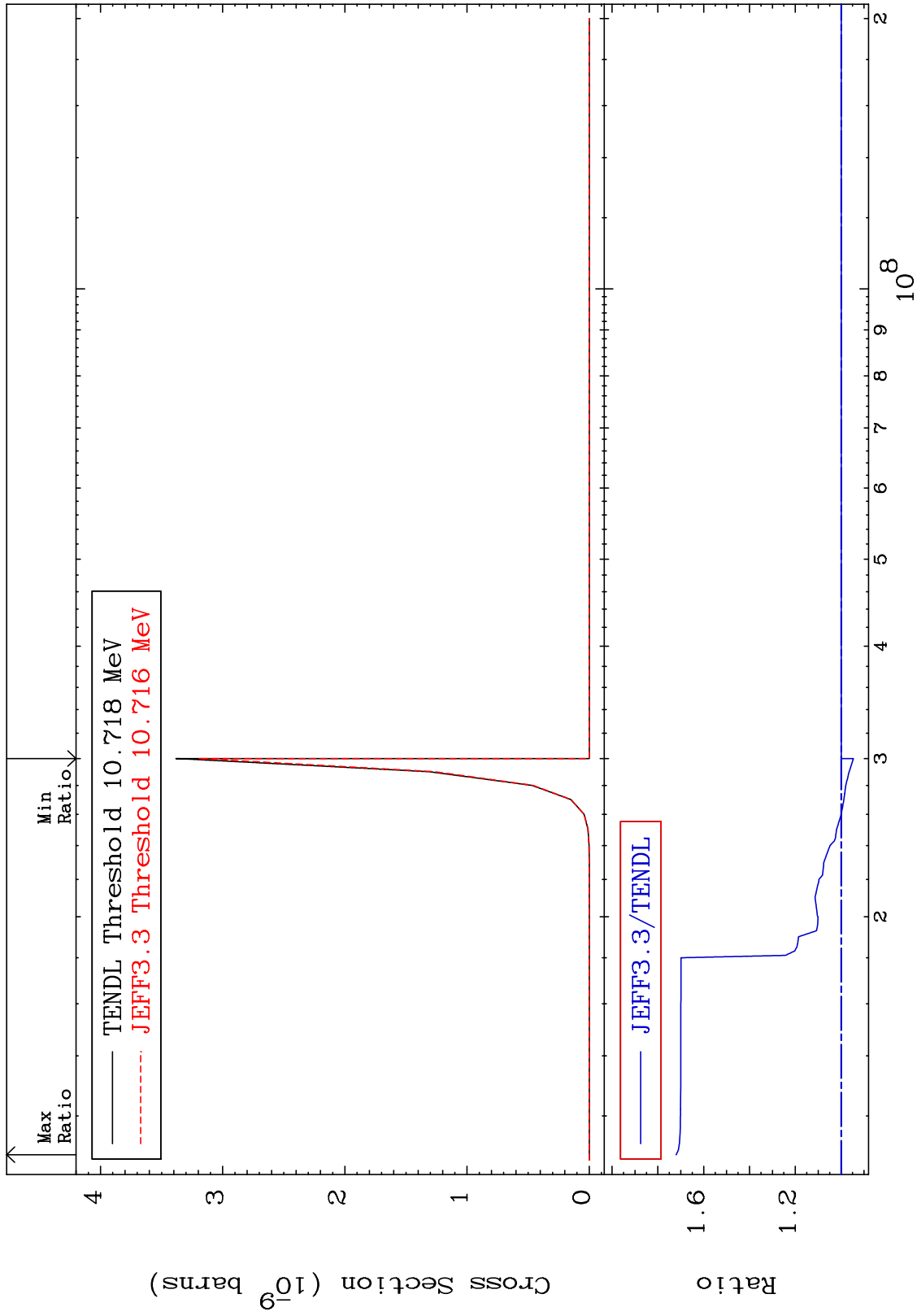
MAT 8031

(n,p) d

80-Hg-198

Cross Section

-5.363 To 72.07 %



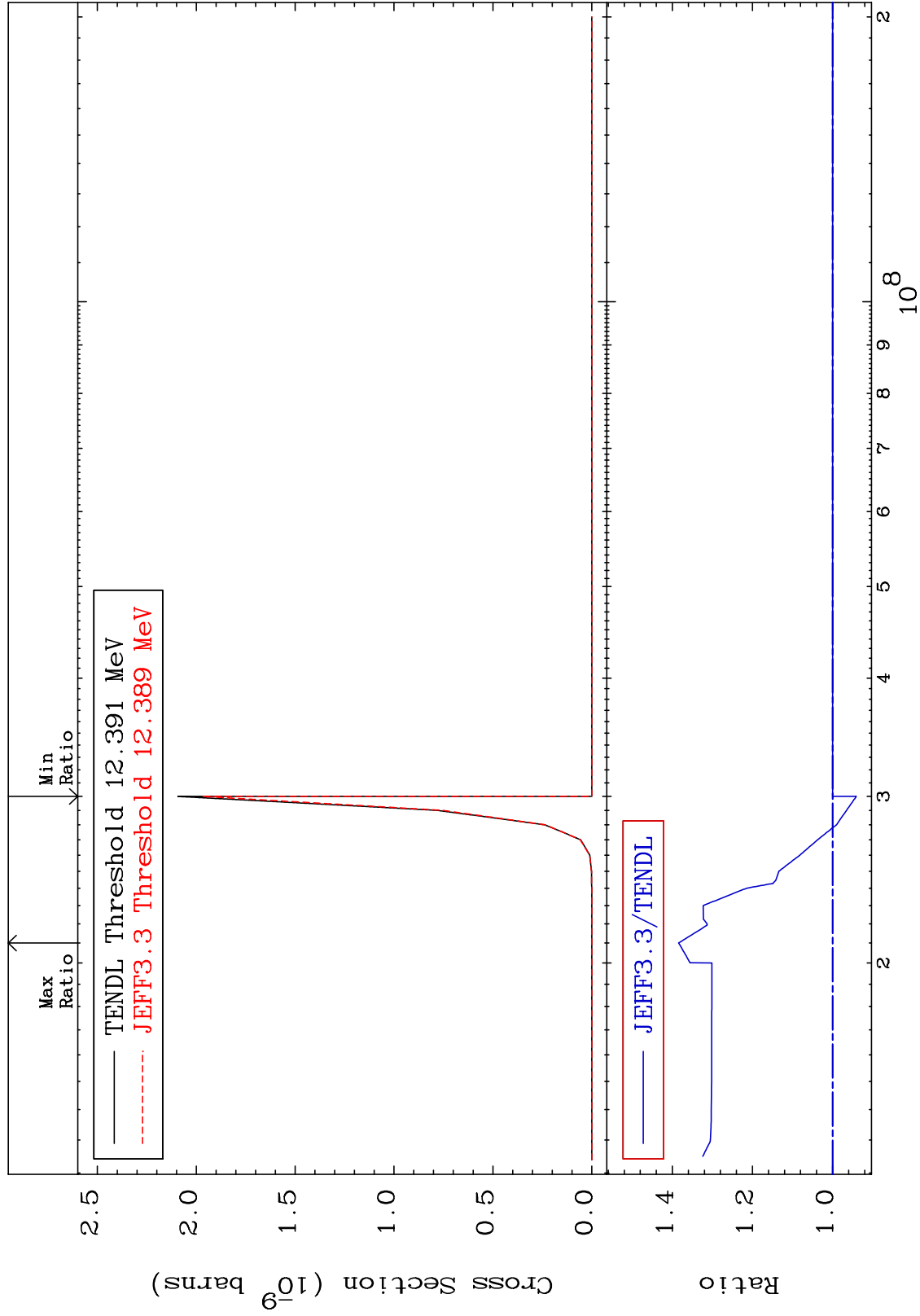
MAT 8031

(n,p) t

80-Hg-198

Cross Section

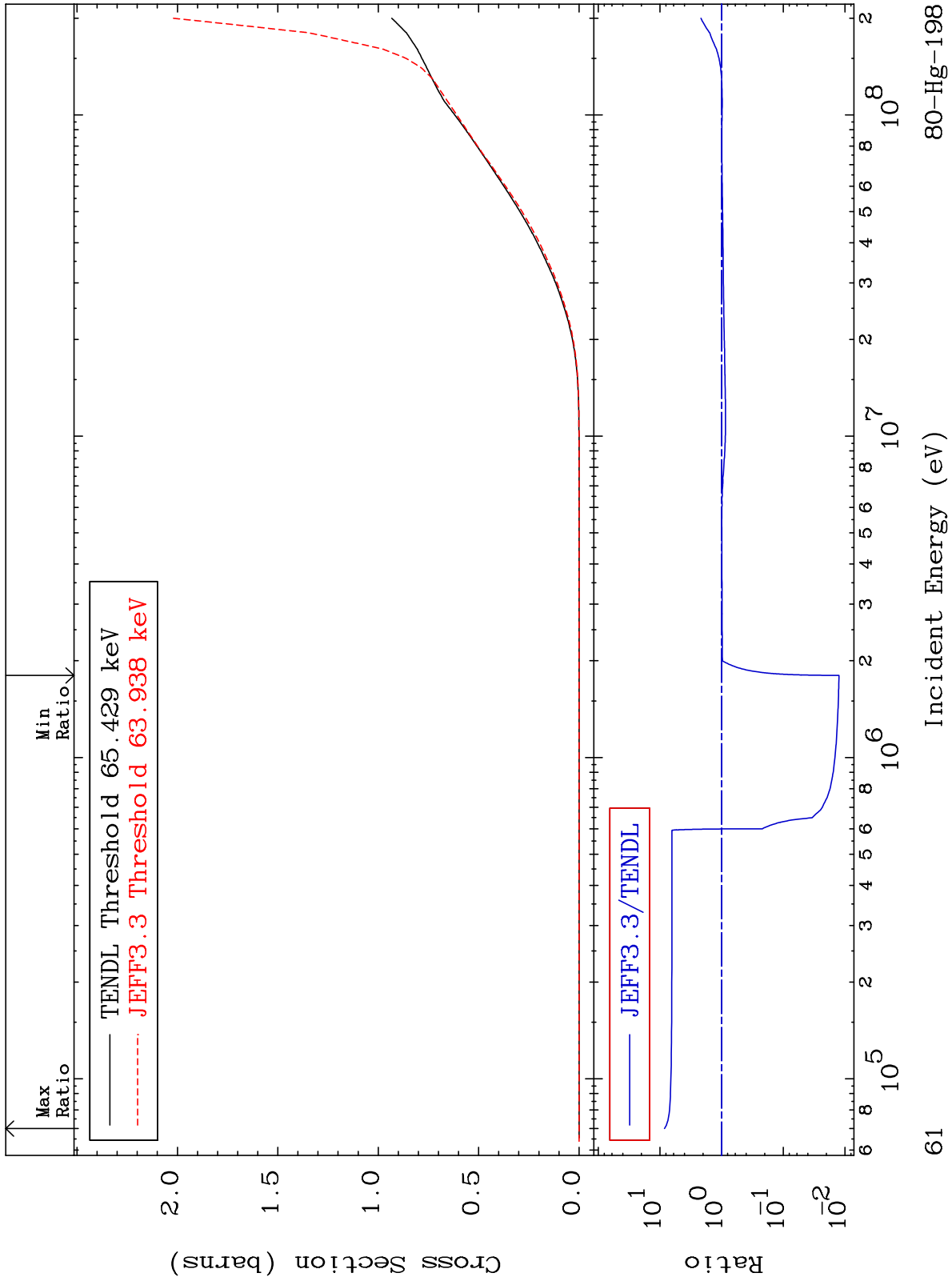
-5.923 To 38.41 %



MAT 8031

Hydrogen Production  
Cross Section

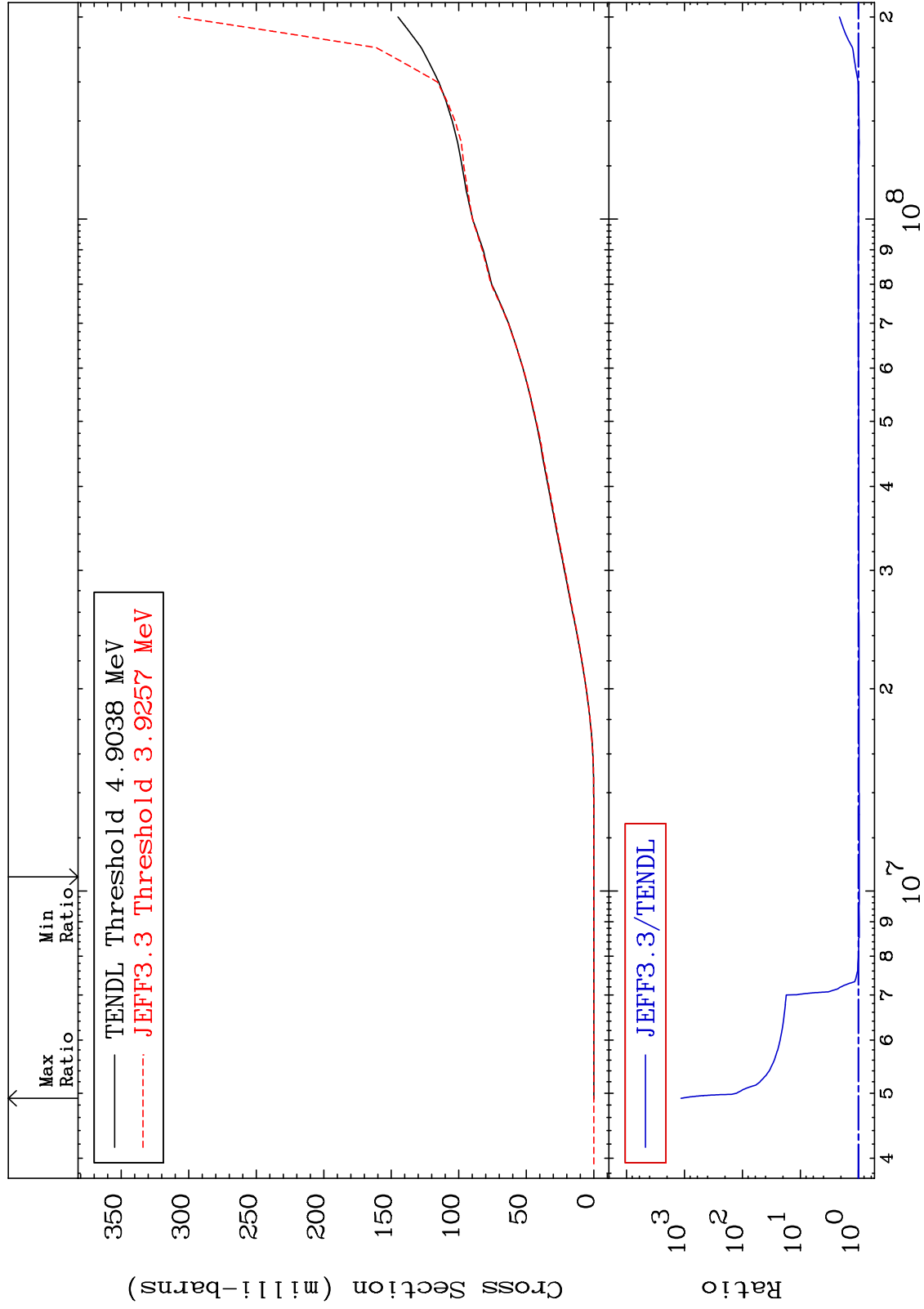
80-Hg-198  
-98.76 To 744.4 %



MAT 8031

Deuterium Production  
Cross Section

80-Hg-198  
-3.364 To 9999. %



62

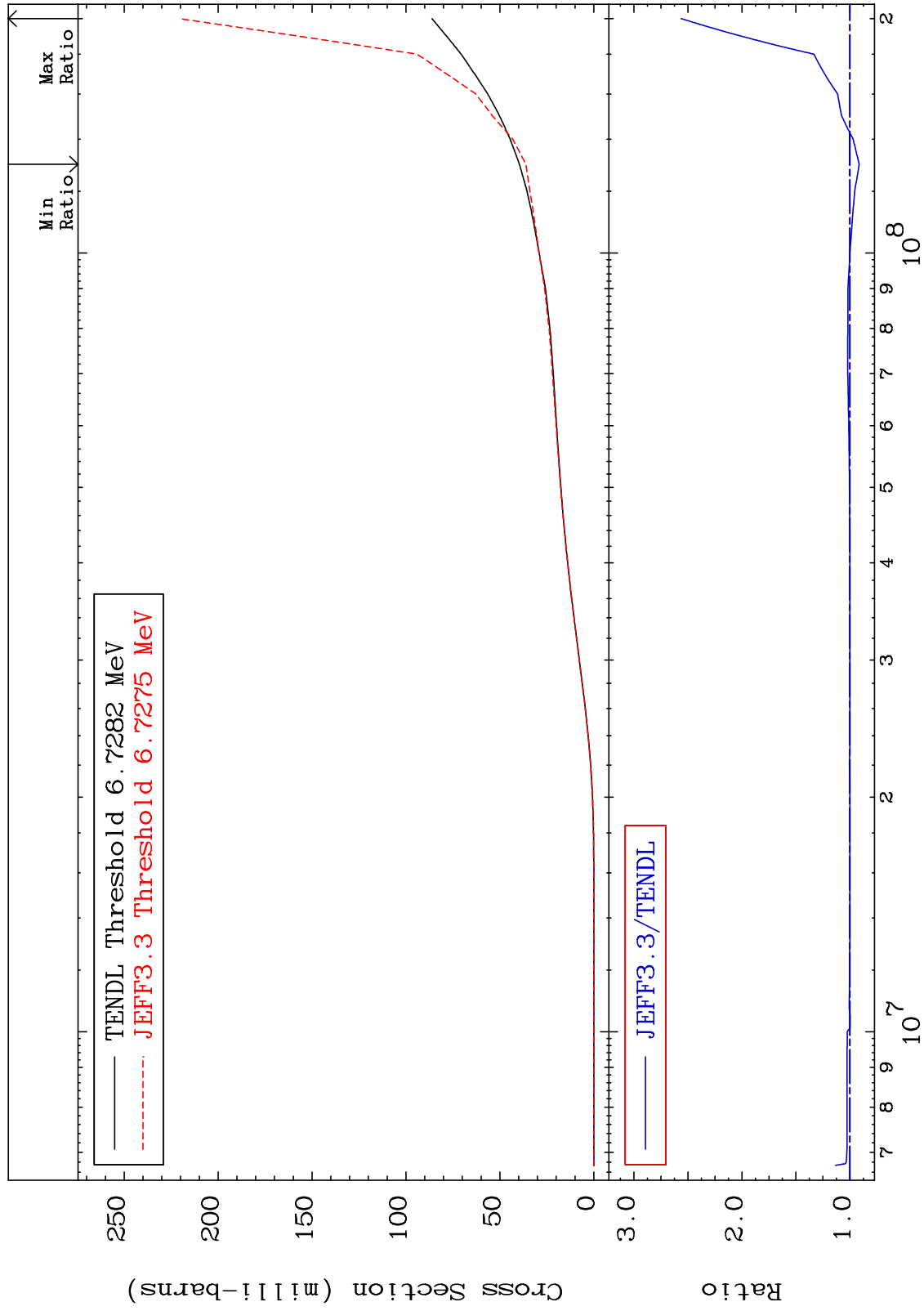
Incident Energy (eV)

80-Hg-198

MAT 8031

Tritium Production  
Cross Section

80-Hg-198  
-8.693 To 156.4 %



63

Incident Energy (eV)

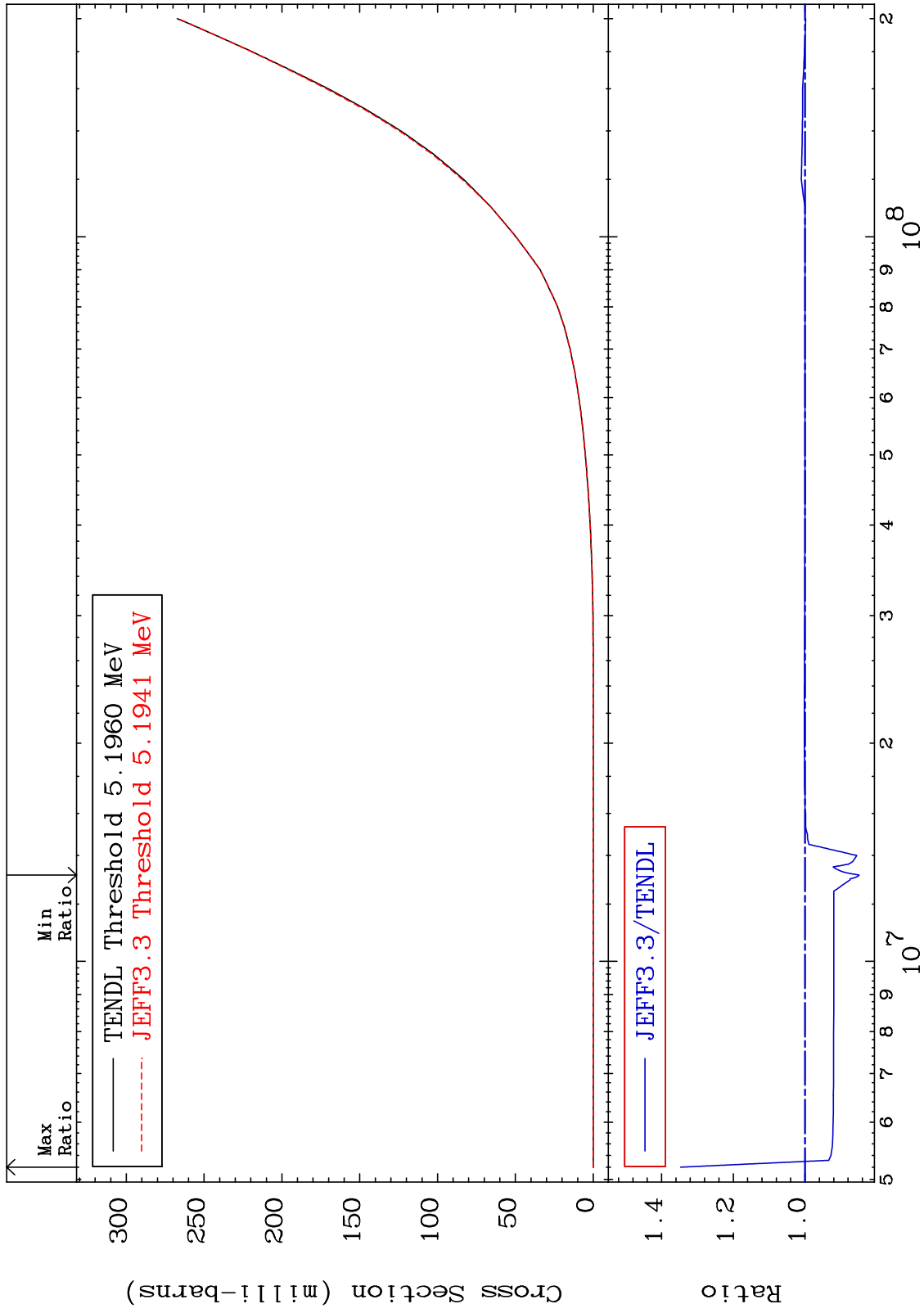
80-Hg-198



MAT 8031

He-3 Production  
Cross Section

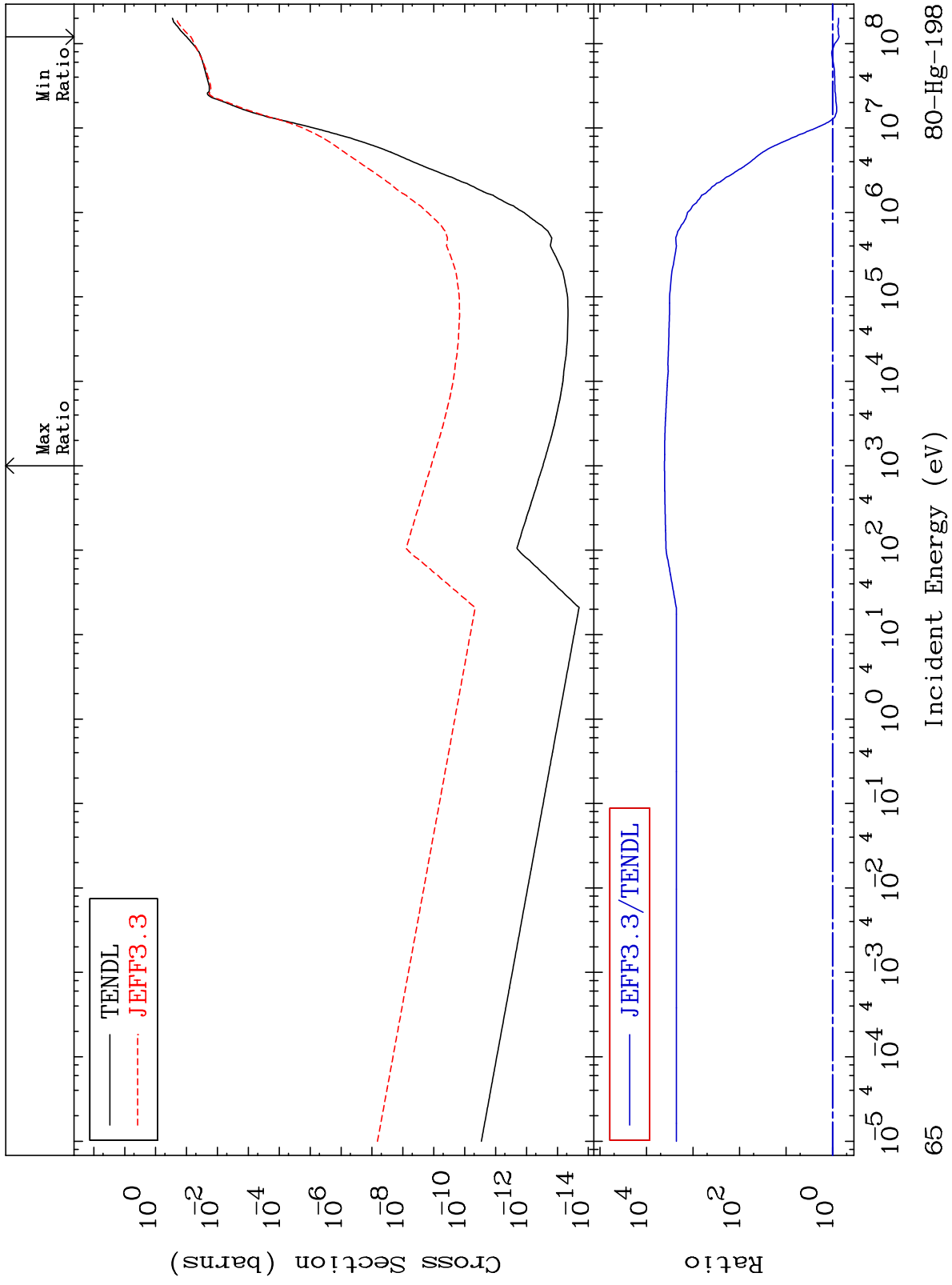
80-Hg-198  
-15.10 To 34.68 %



MAT 8031

He-4 Production  
Cross Section

80-Hg-198  
-27.16 To 9999. %



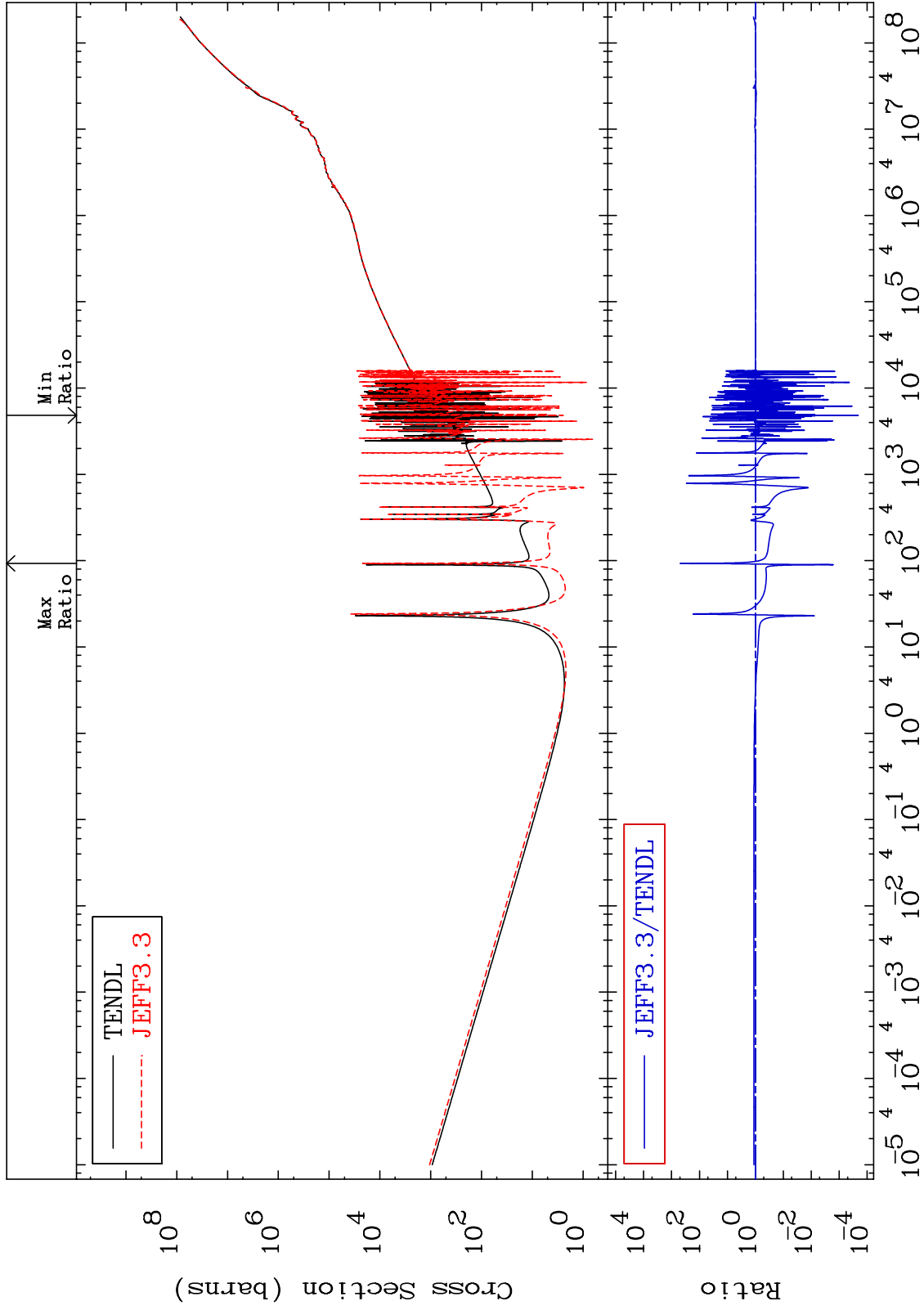
65

80-Hg-198

MAT 8031

Kerma total (eV-barns)  
Cross Section

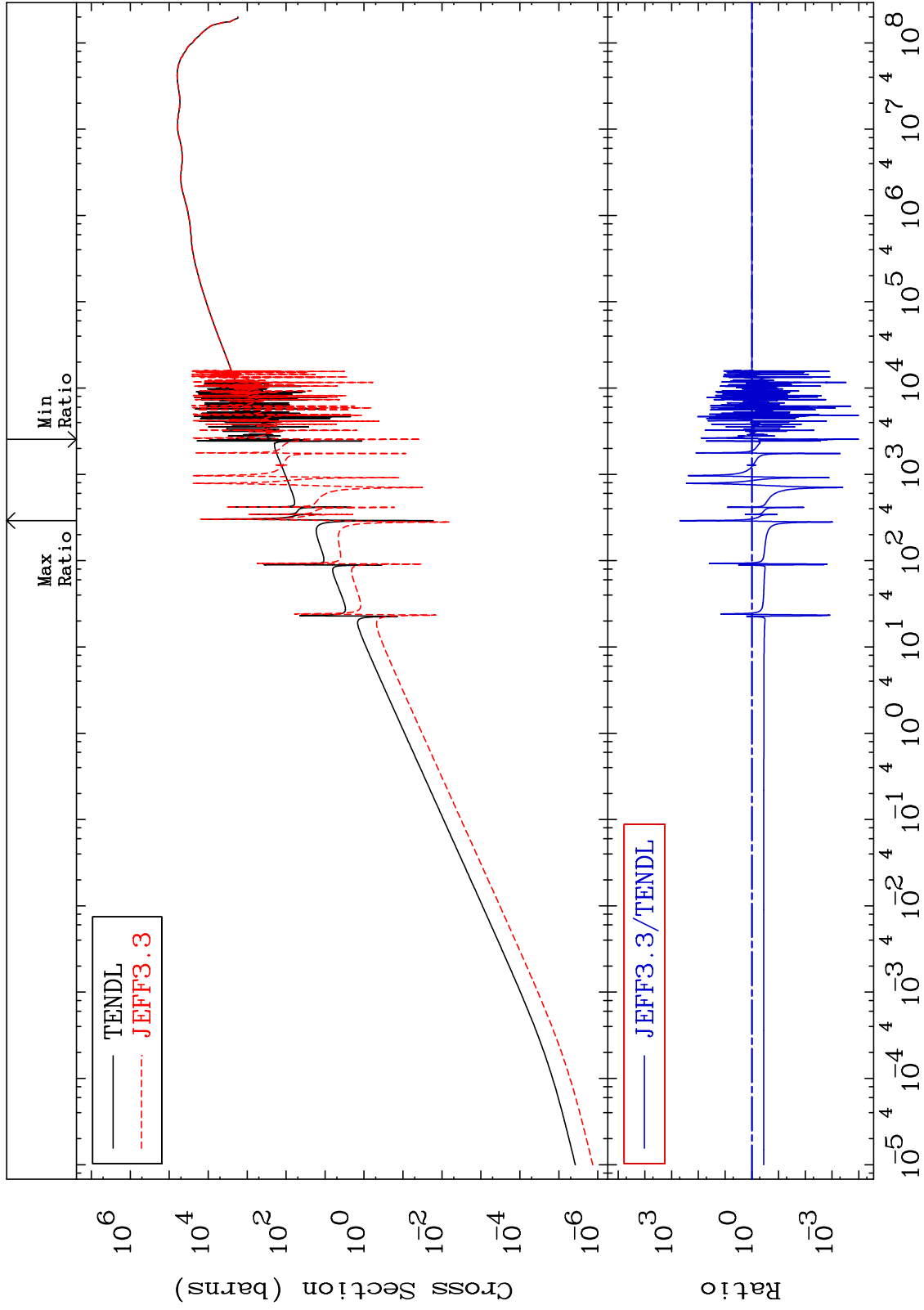
80-Hg-198  
-99.98 To 9999. %



MAT 8031

Kerma elastic  
Cross Section

80-Hg-198  
-99.99 To 9999. %



67

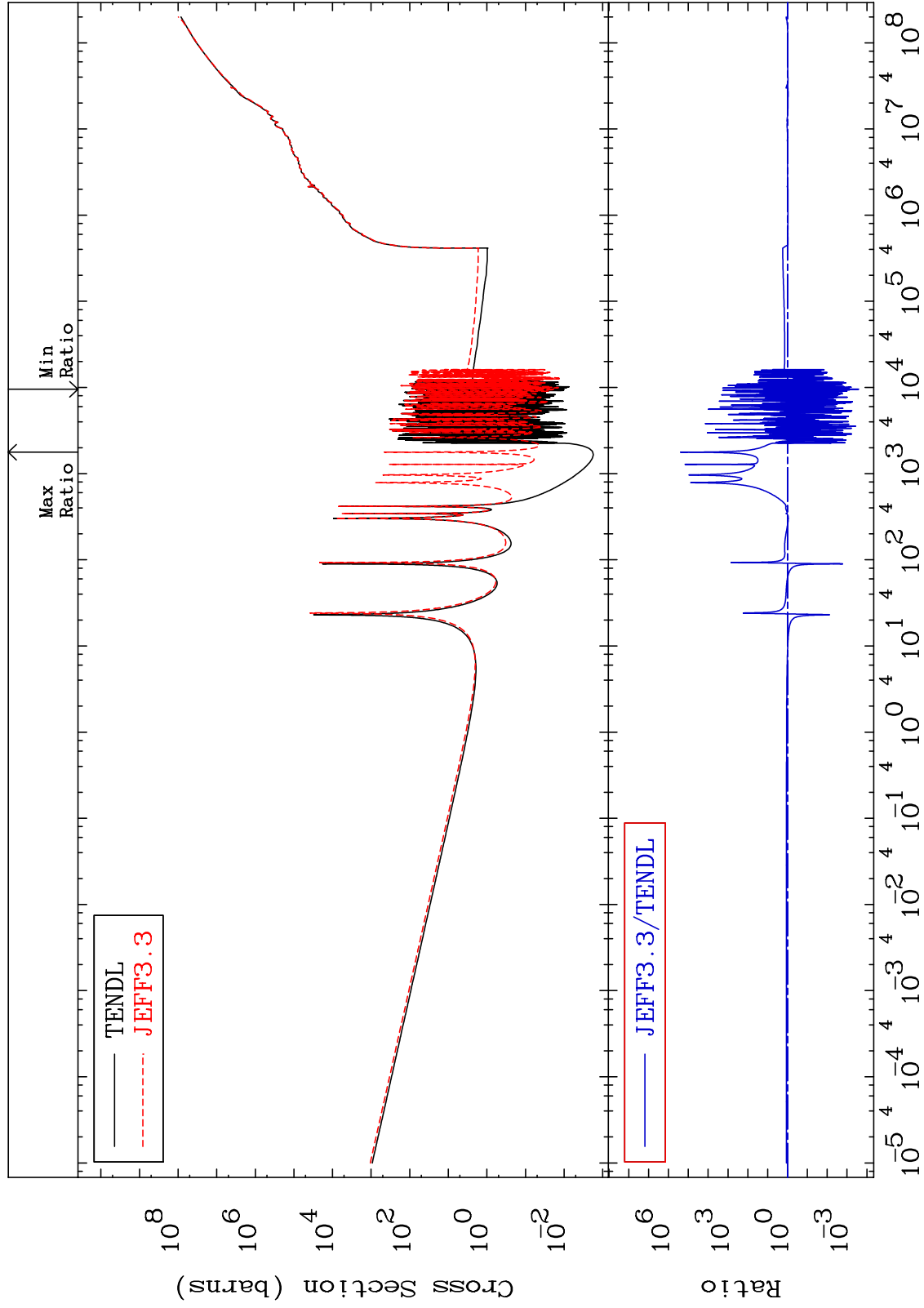
Incident Energy (eV)

80-Hg-198

MAT 8031

Kerma non-elastic (all but mt2)  
Cross Section

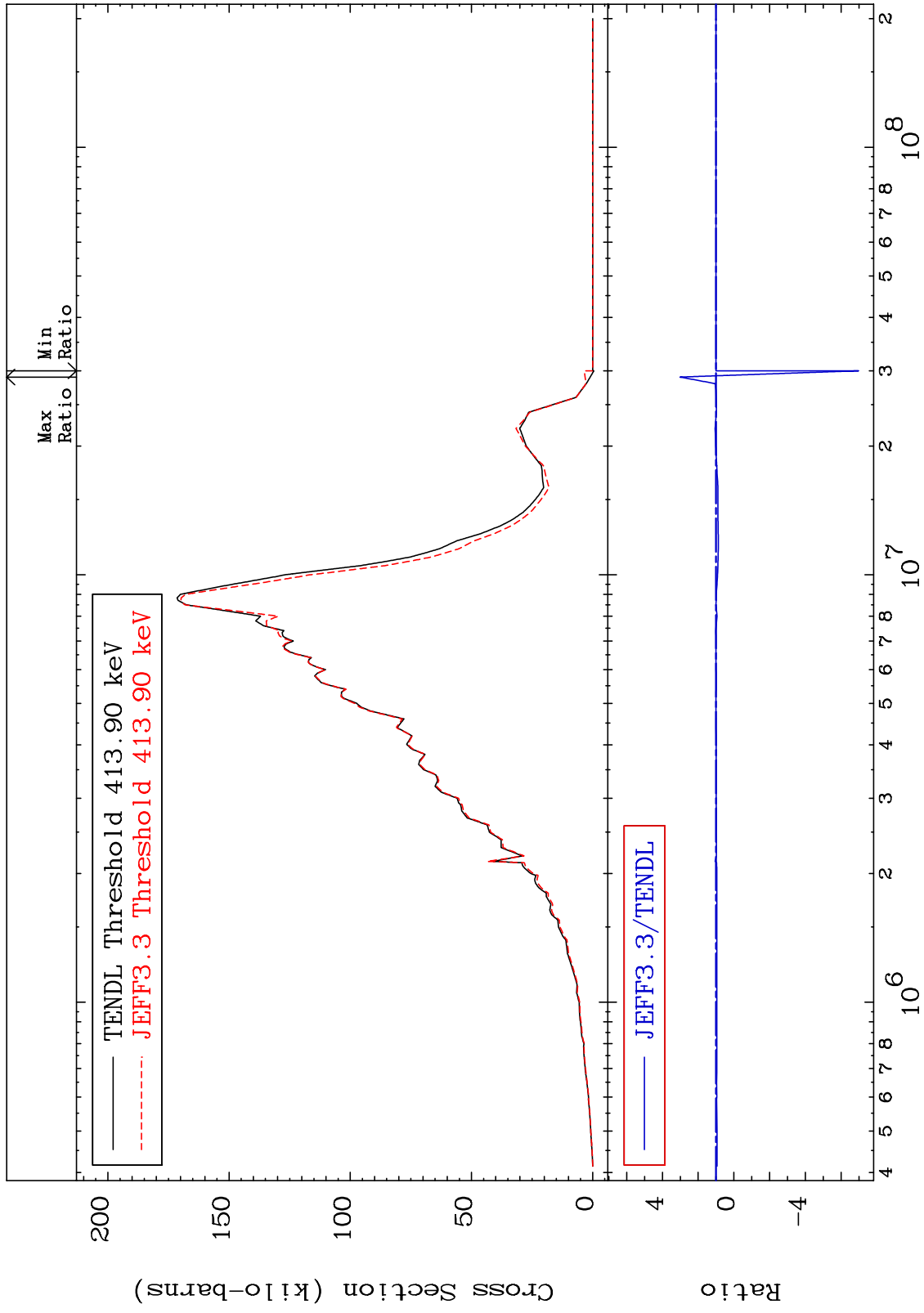
80-Hg-198  
-99.97 To 9999. %



MAT 8031

Kerma inelastic (mt51-91)  
Cross Section

80-Hg-198  
-796.5 To 201.5 %



69

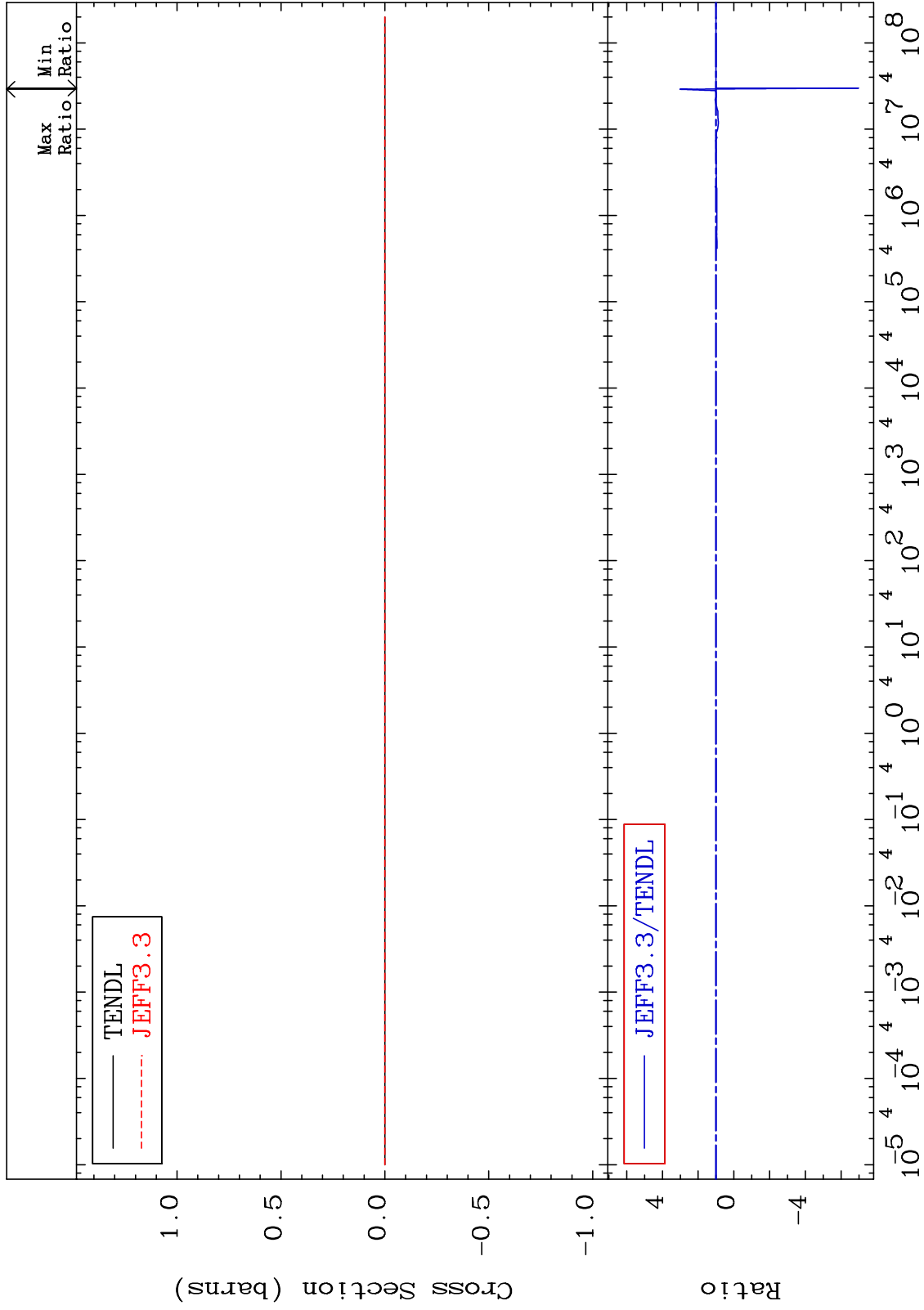
Incident Energy (eV)

80-Hg-198

MAT 8031

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

80-Hg-198  
-796.5 To 201.5 %



70

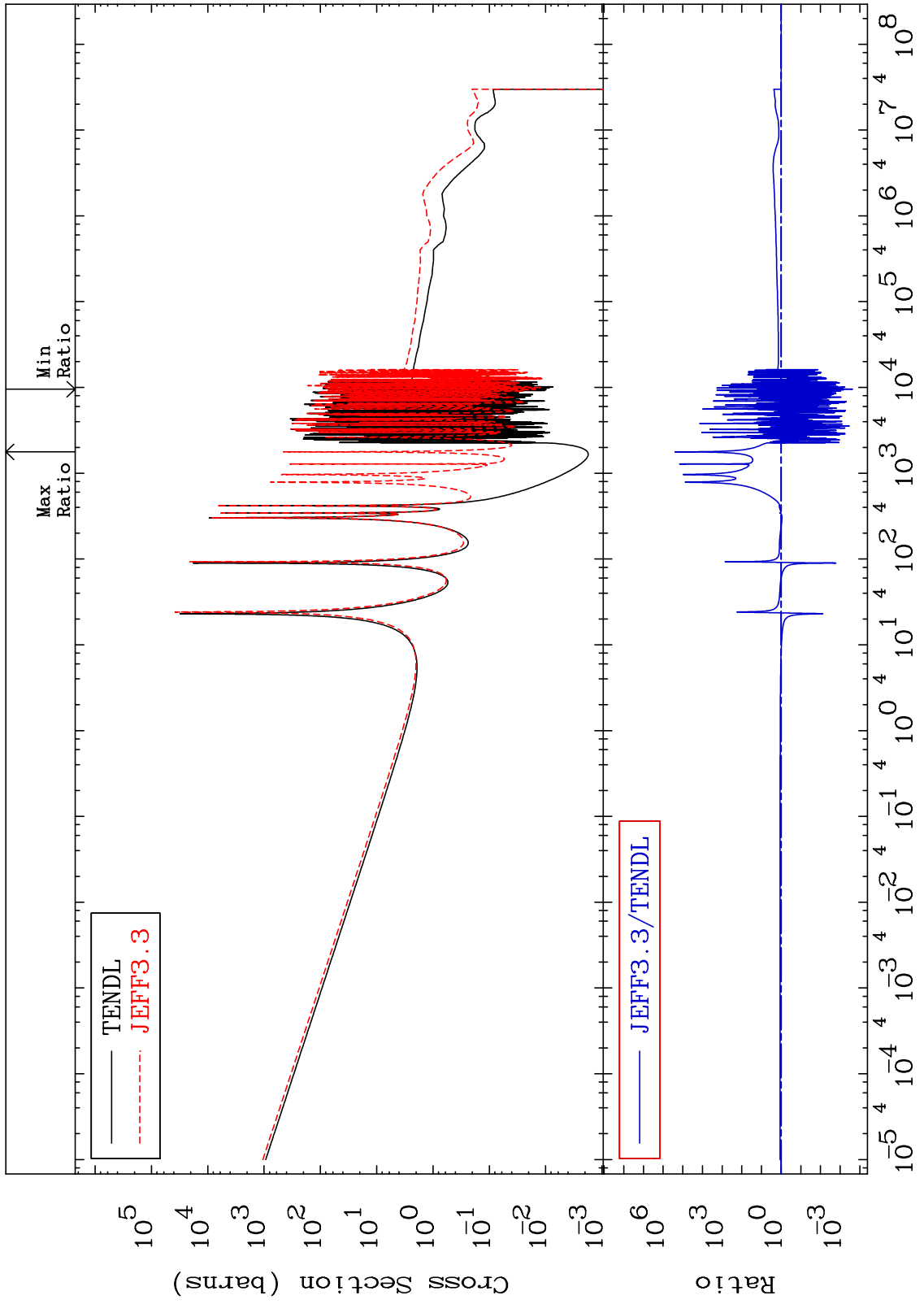
Incident Energy (eV)

80-Hg-198

MAT 8031

Kerma capture (mt102)  
Cross Section

80-Hg-198  
-99.98 To 9999. %



71

Incident Energy (eV)

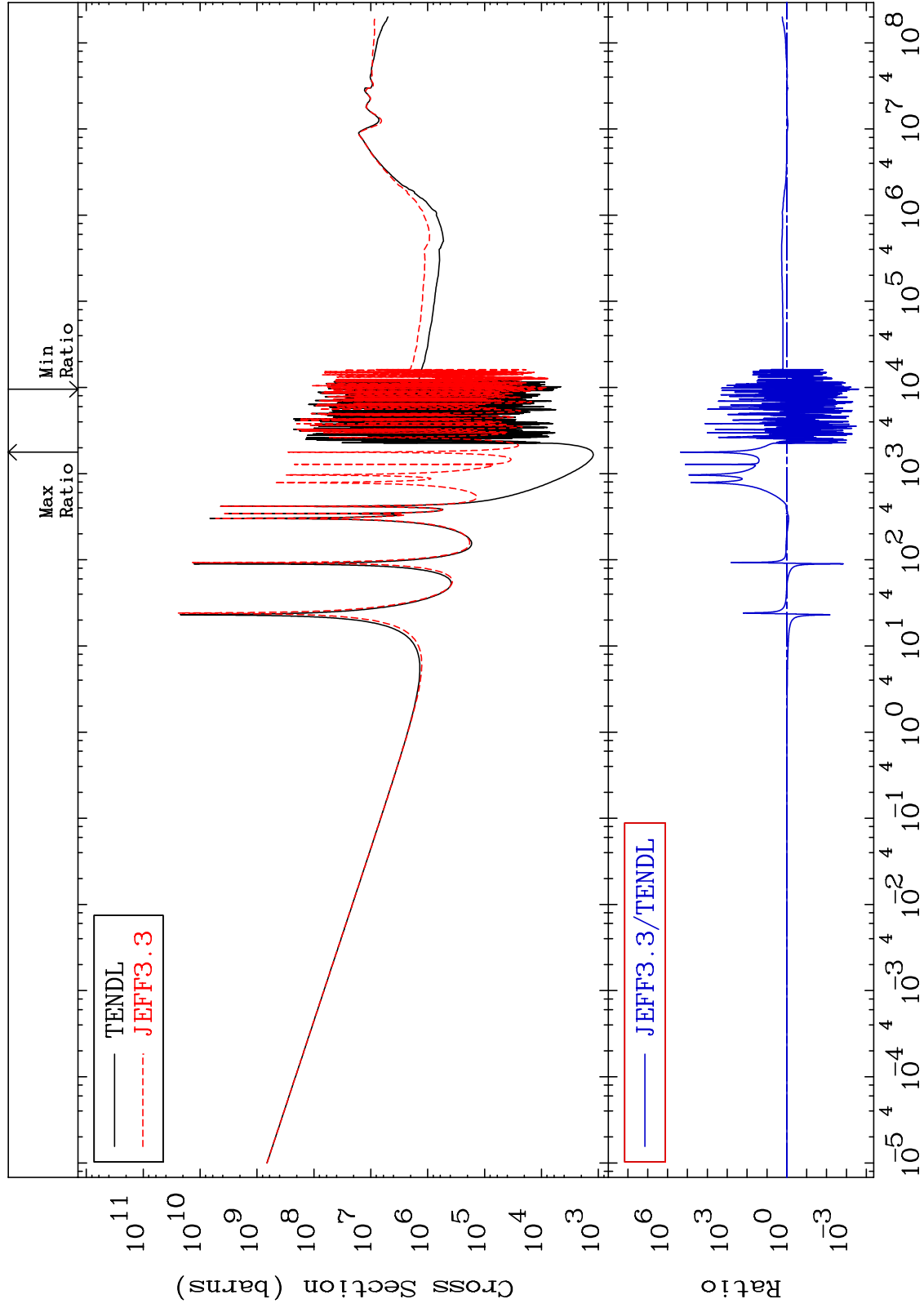
80-Hg-198



MAT 8031

Total photon (eV-barns)  
Cross Section

80-Hg-198  
-99.98 To 9999. %



72

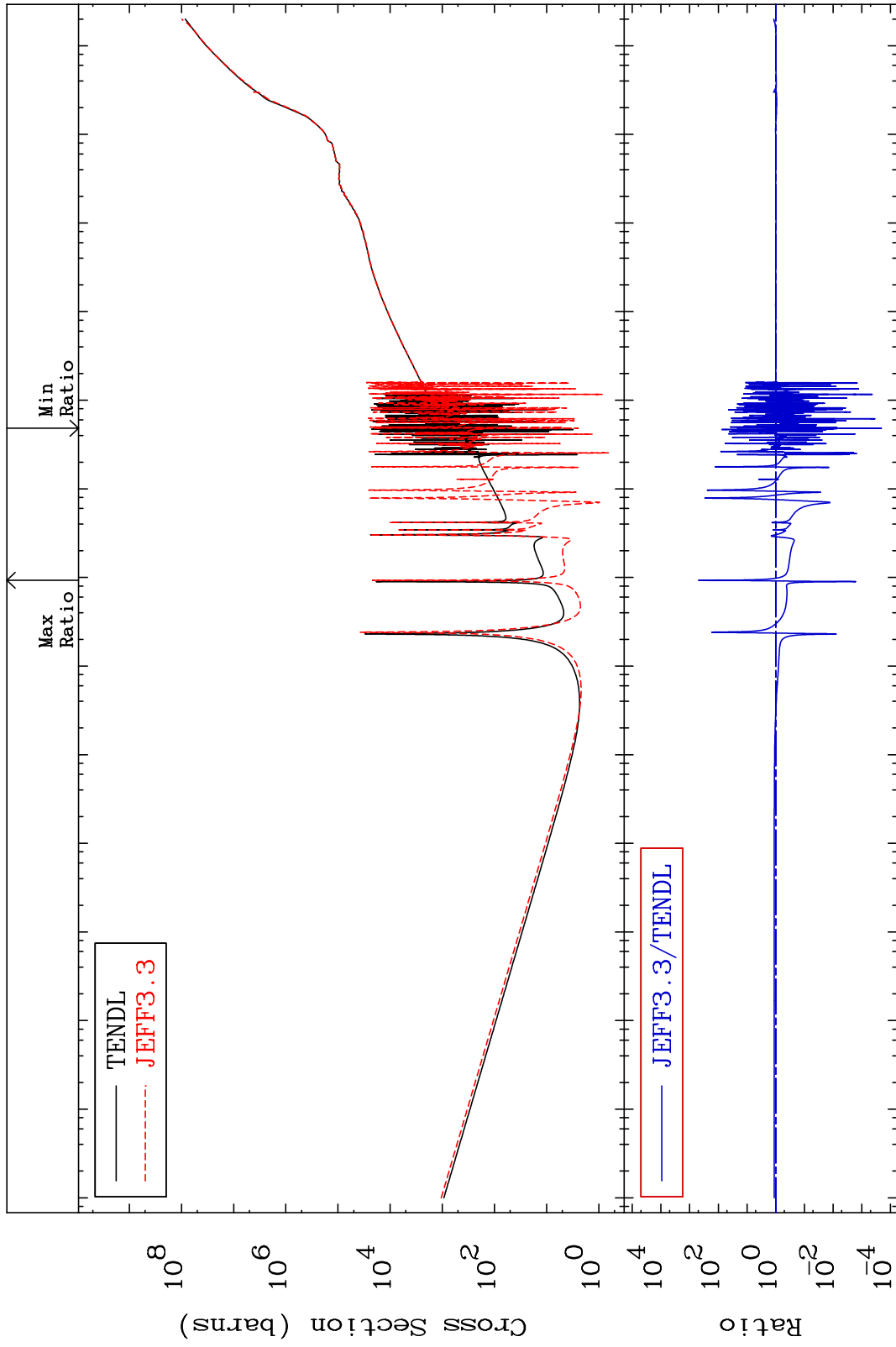
Incident Energy (eV)

80-Hg-198

MAT 8031

Total kinematic kerma (high limit)  
Cross Section

80-Hg-198  
-99.98 To 9999. %



73

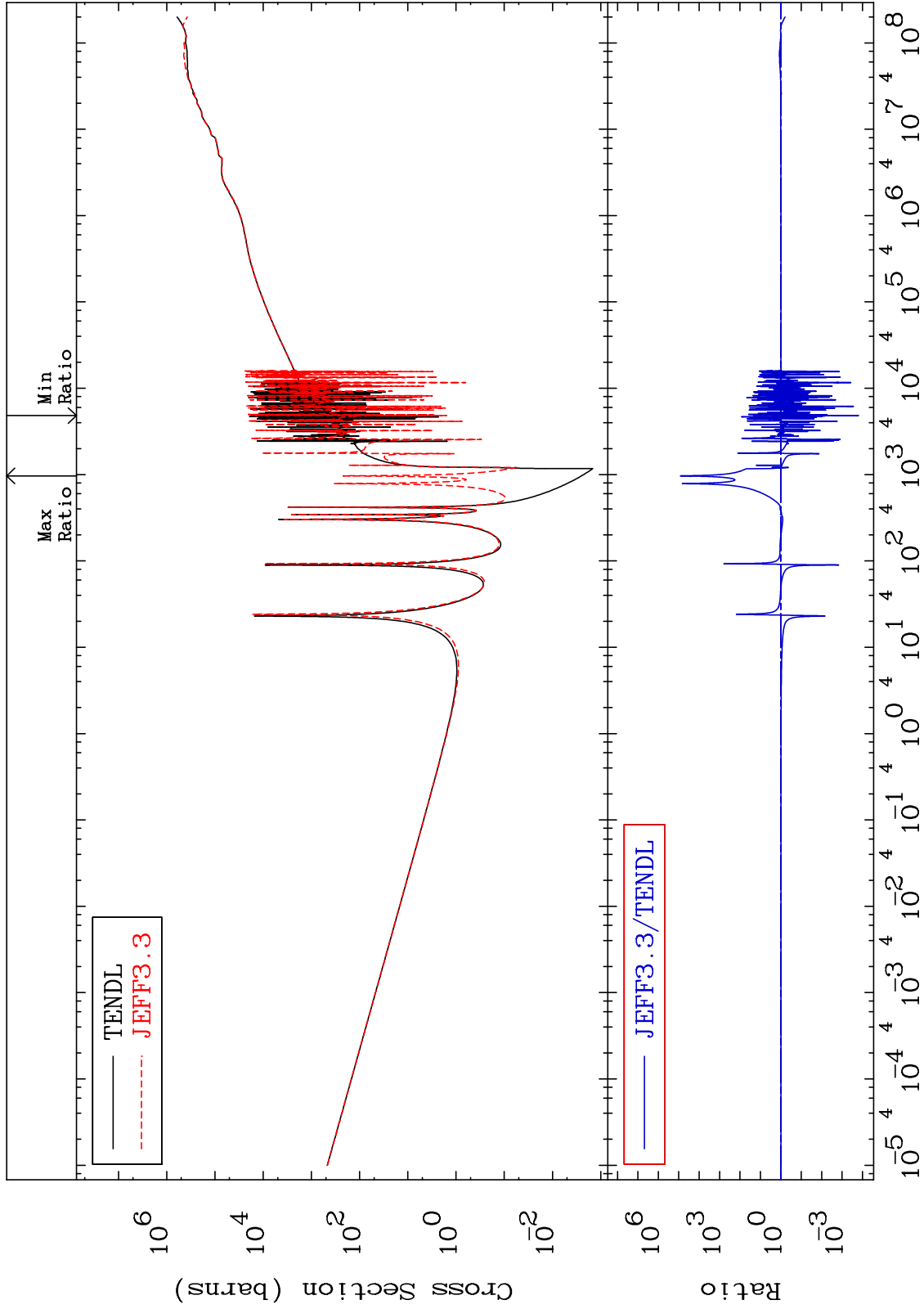
Incident Energy (eV)

80-Hg-198

MAT 8031

Dpa total (eV-barns)  
Cross Section

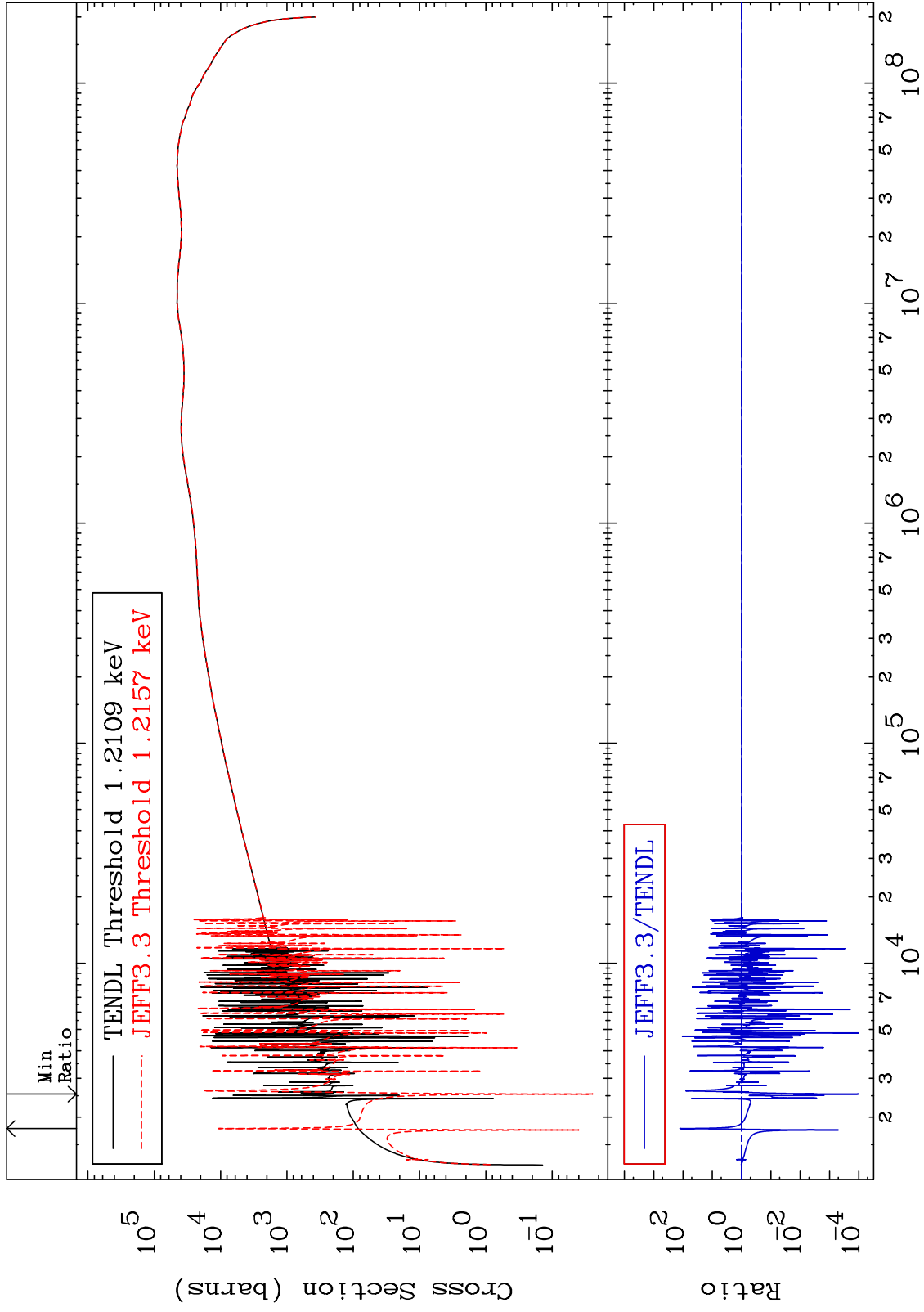
80-Hg-198  
-99.98 To 9999. %



MAT 8031

Dpa elastic (mt2)  
Cross Section

80-Hg-198  
-99.99 To 9999. %



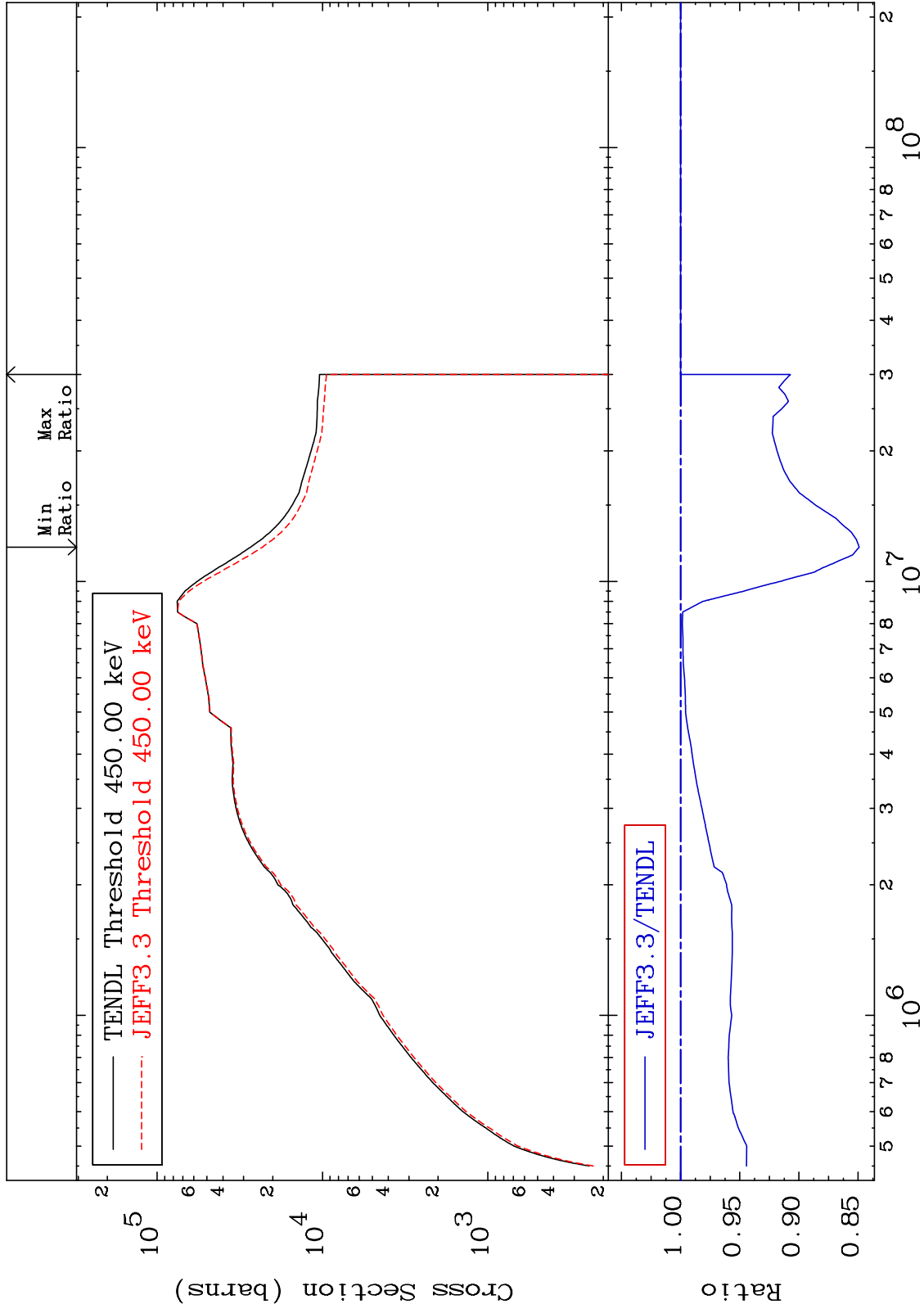
MAT 8031

Dpa inelastic (mt51-91)

80-Hg-198

-15.09 To 0.000 %

Cross Section



76

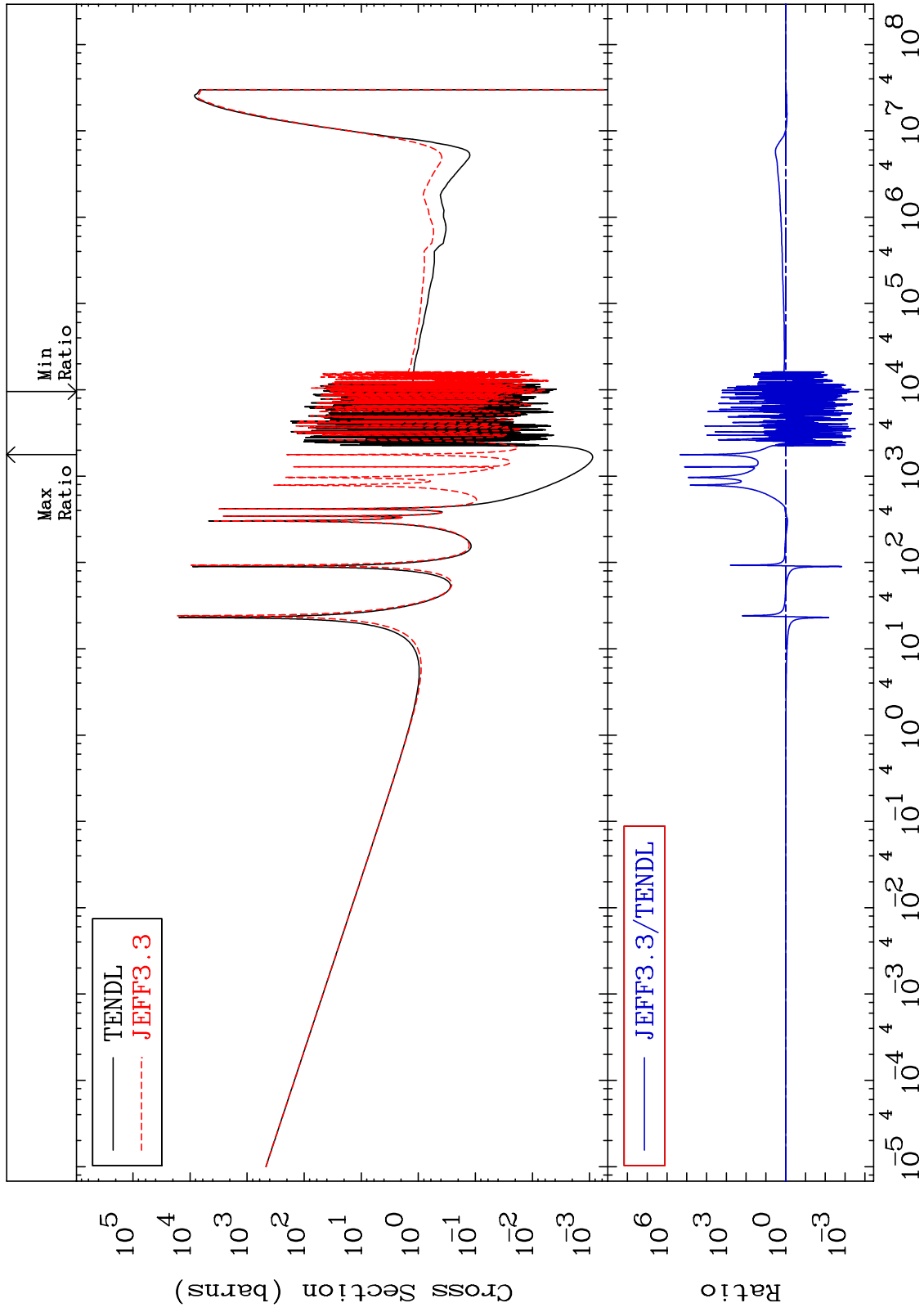
Incident Energy (eV)

80-Hg-198

MAT 8031

Dpa disappearance (mt102 -120)  
Cross Section

80-Hg-198  
-99.98 To 9999. %



77

Incident Energy (eV)

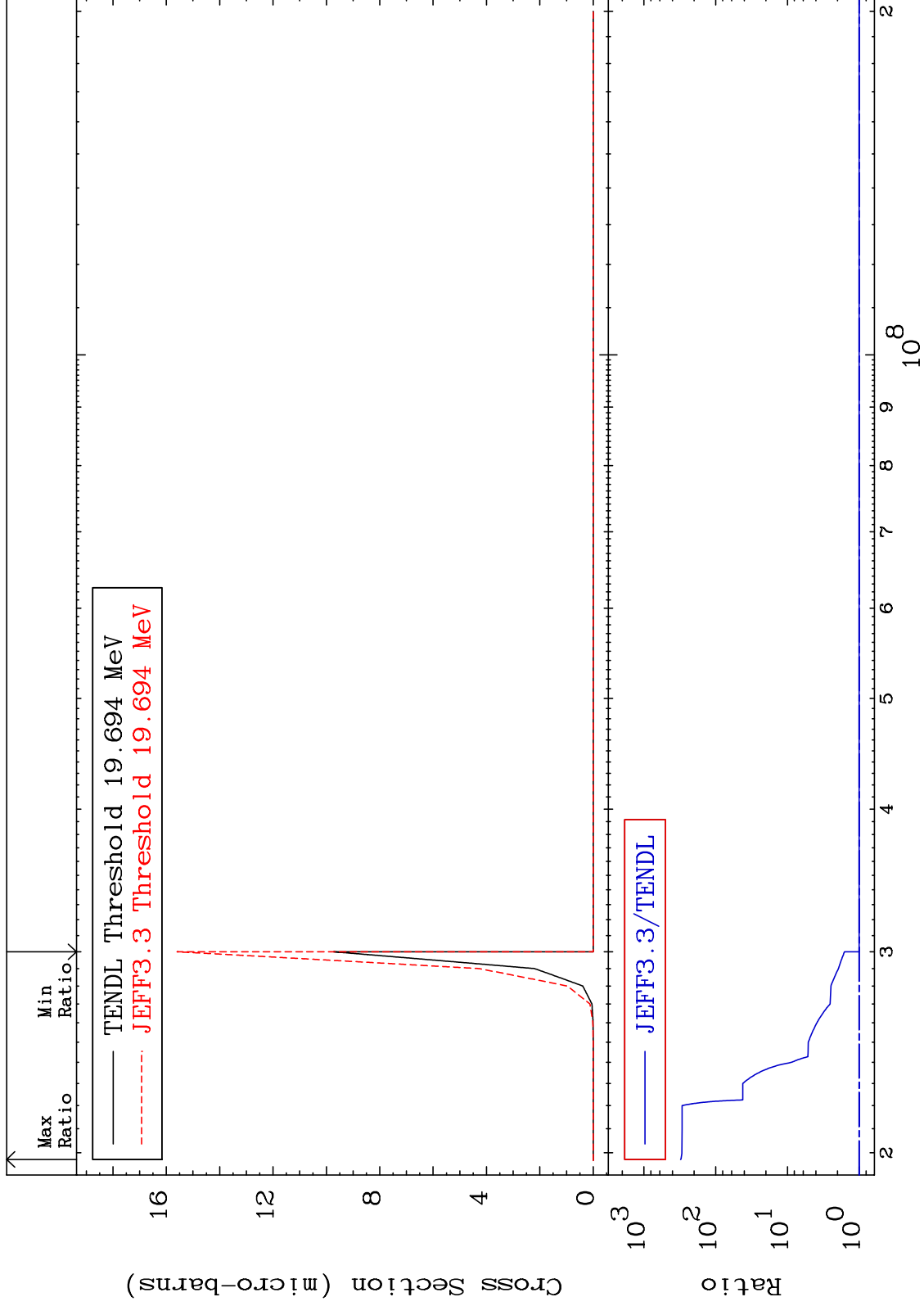
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



78

Incident Energy (eV)

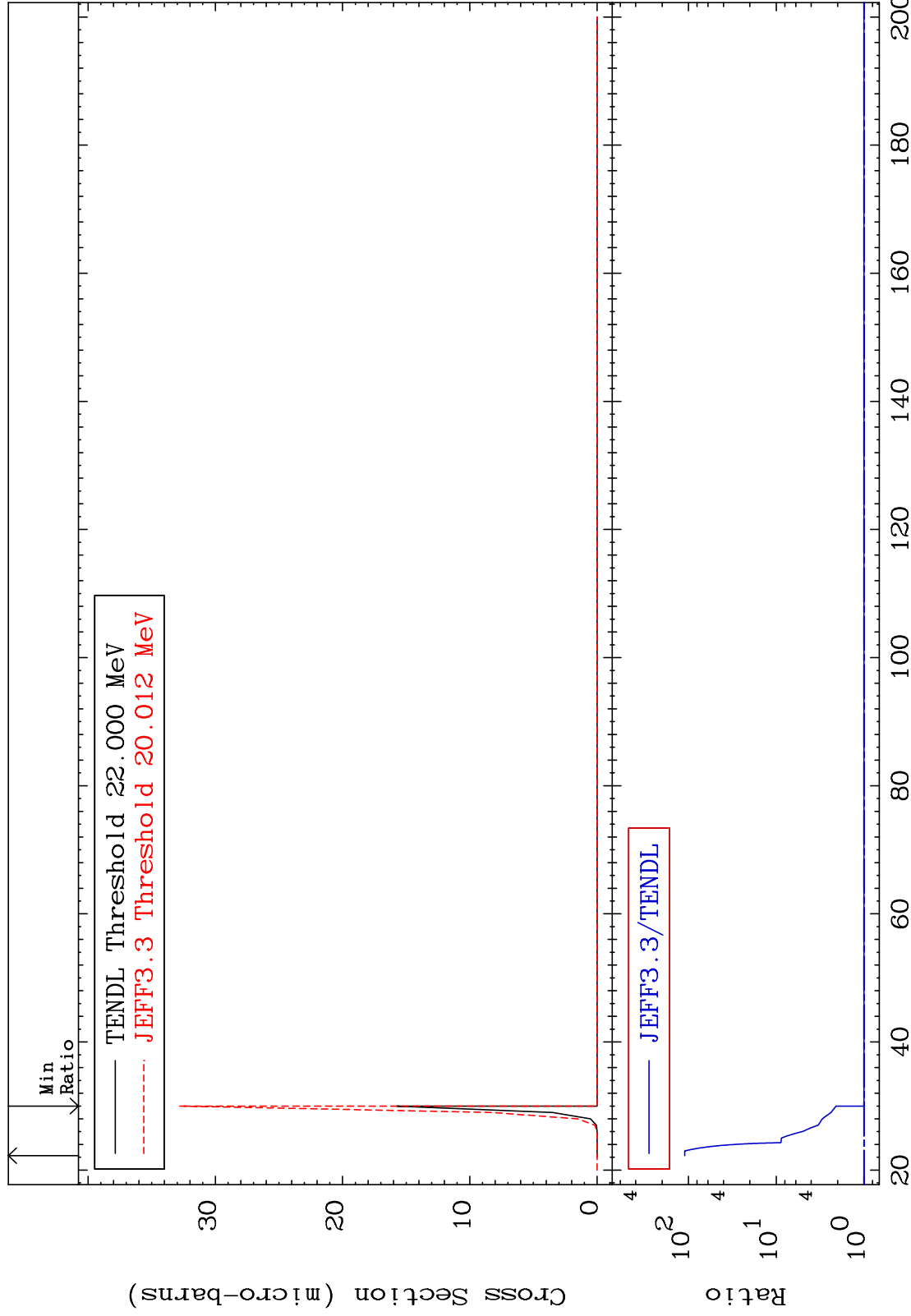
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



79

Incident Energy (MeV)

80-Hg-198



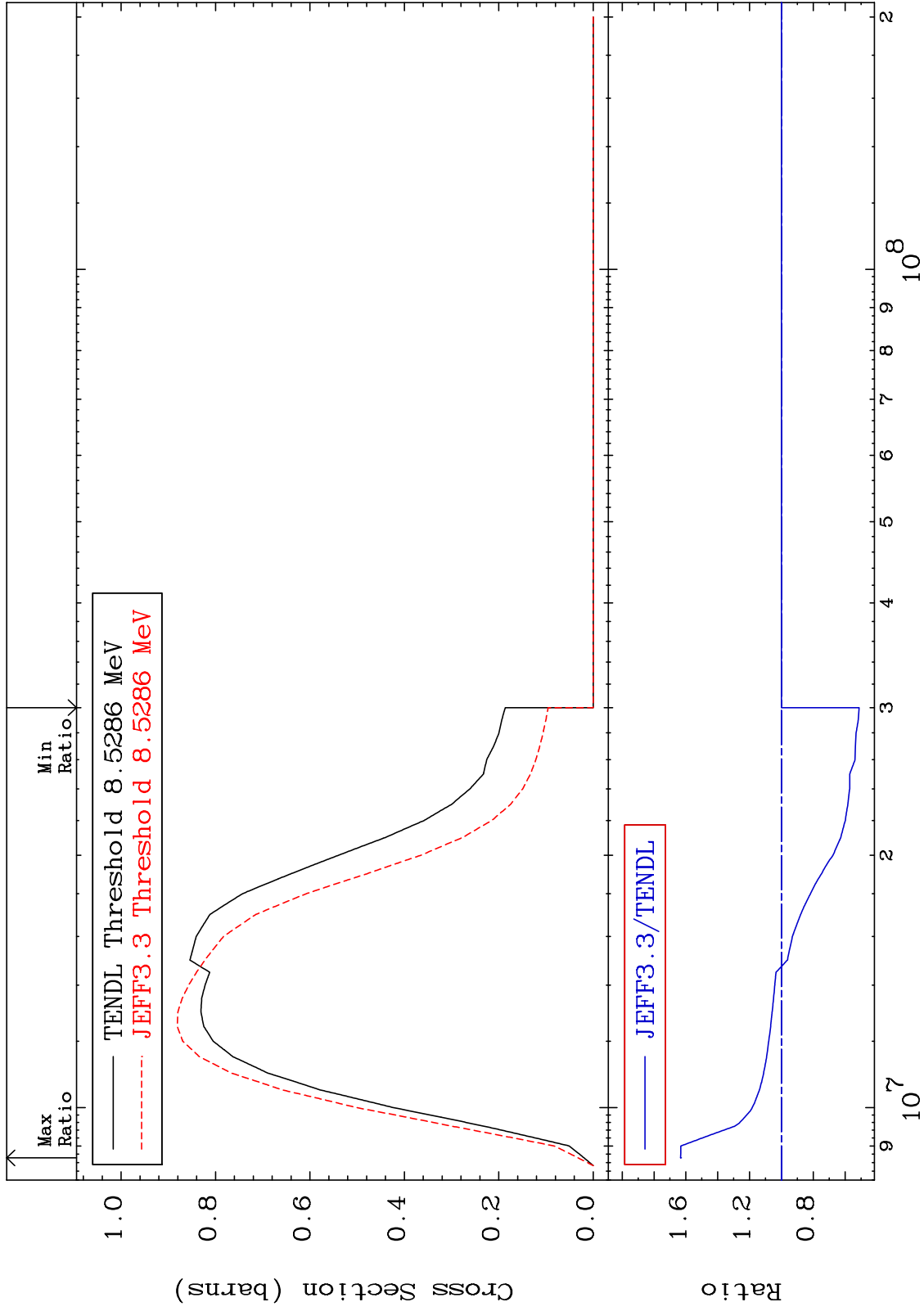
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-48.76 To 63.31 %

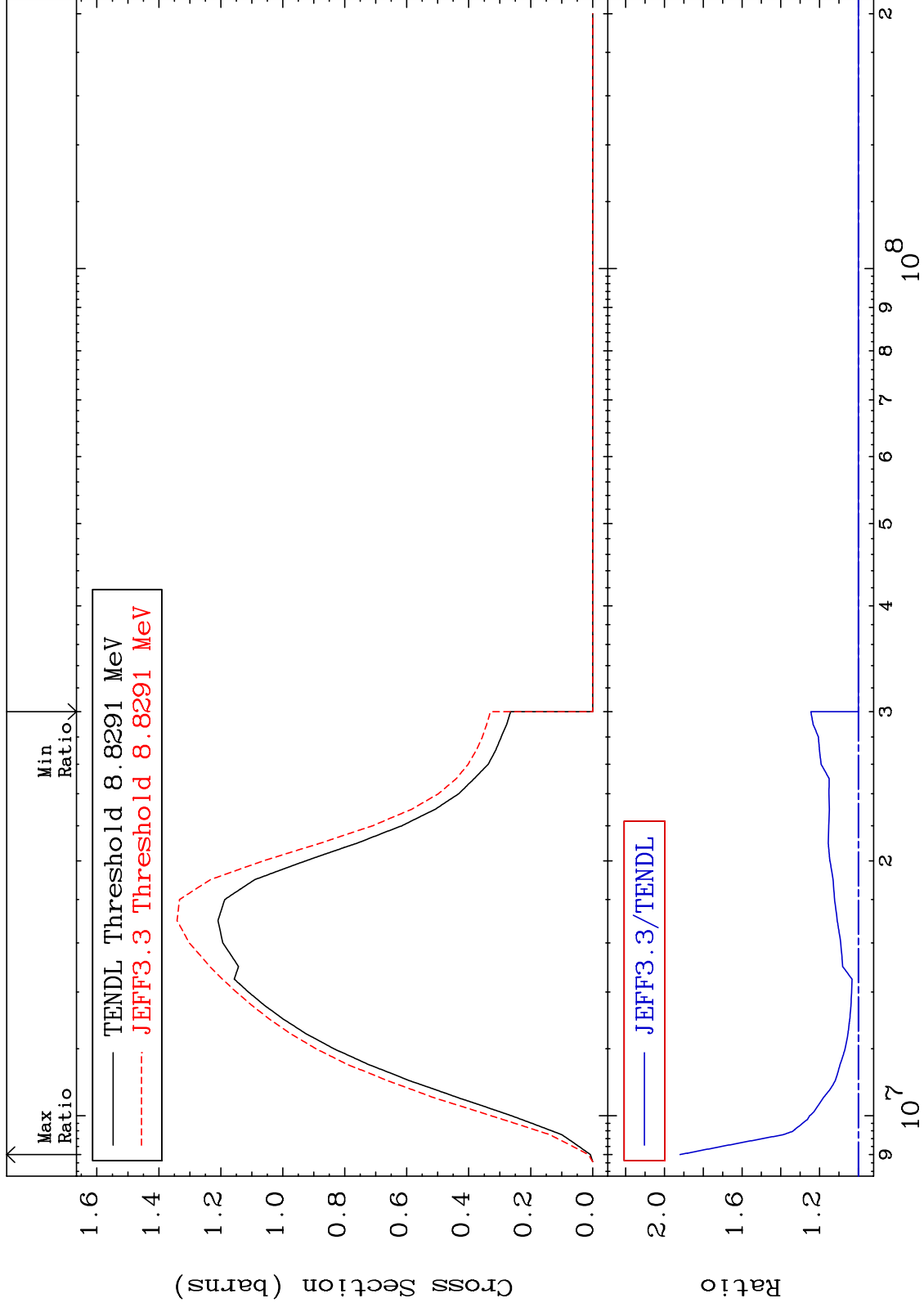


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 91.96 %



81

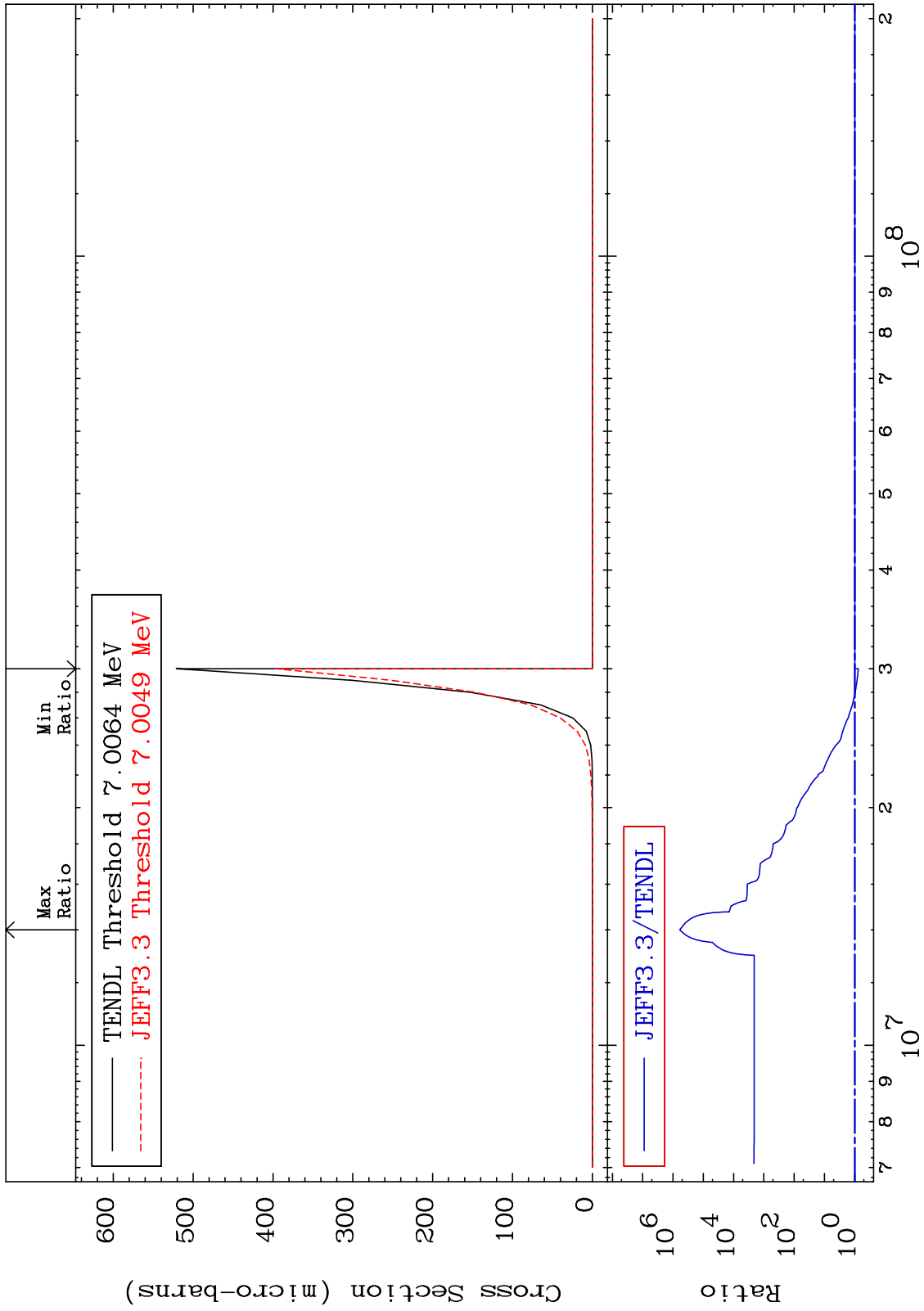
Incident Energy (eV)

80-Hg-198

MAT 8031

80-Hg-198

(n,2n)  $\alpha$ :78-Pt-193g  
Radionuclide Production Cross Section -23.98 To 9999. %



82

Incident Energy (eV)

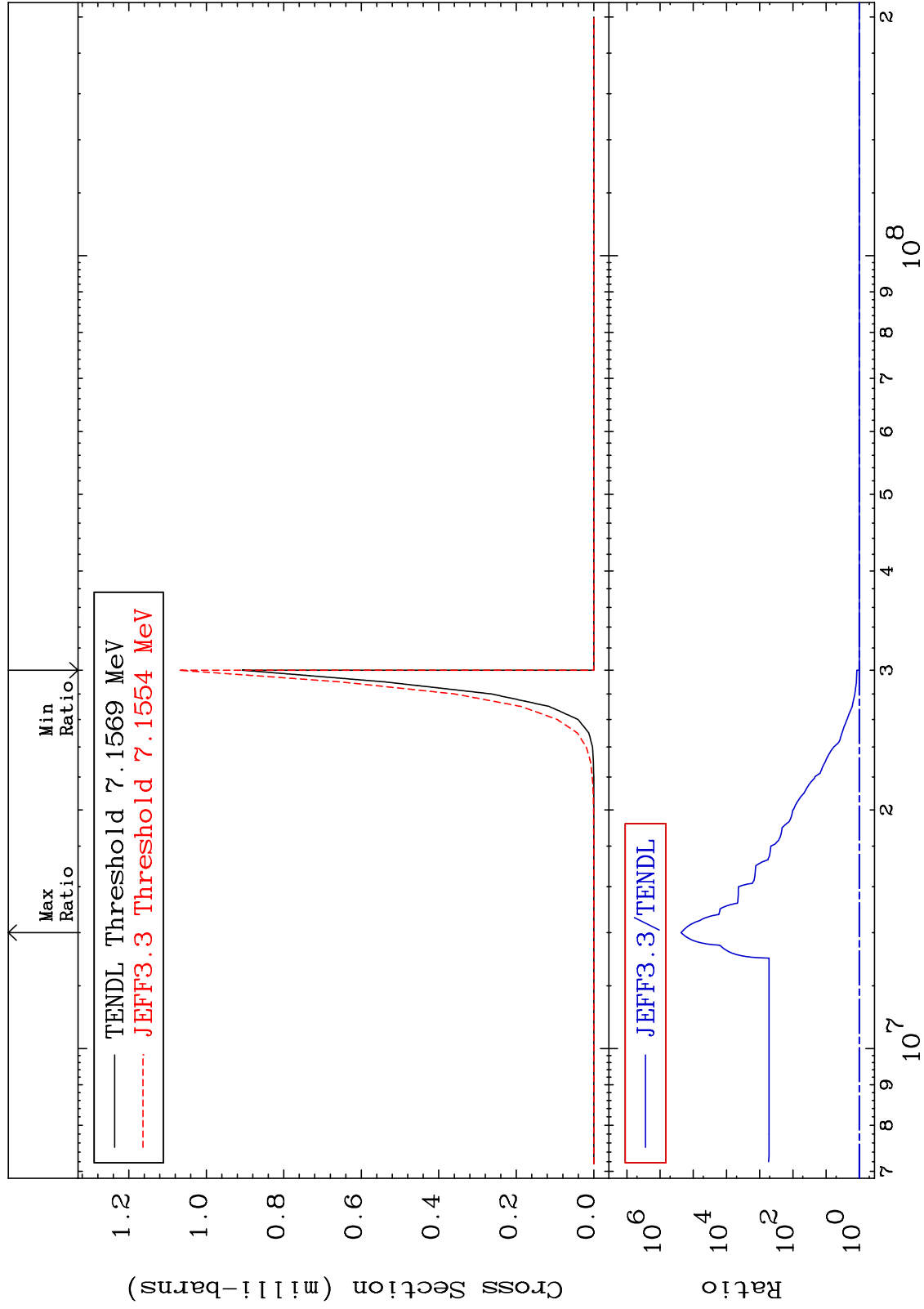
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



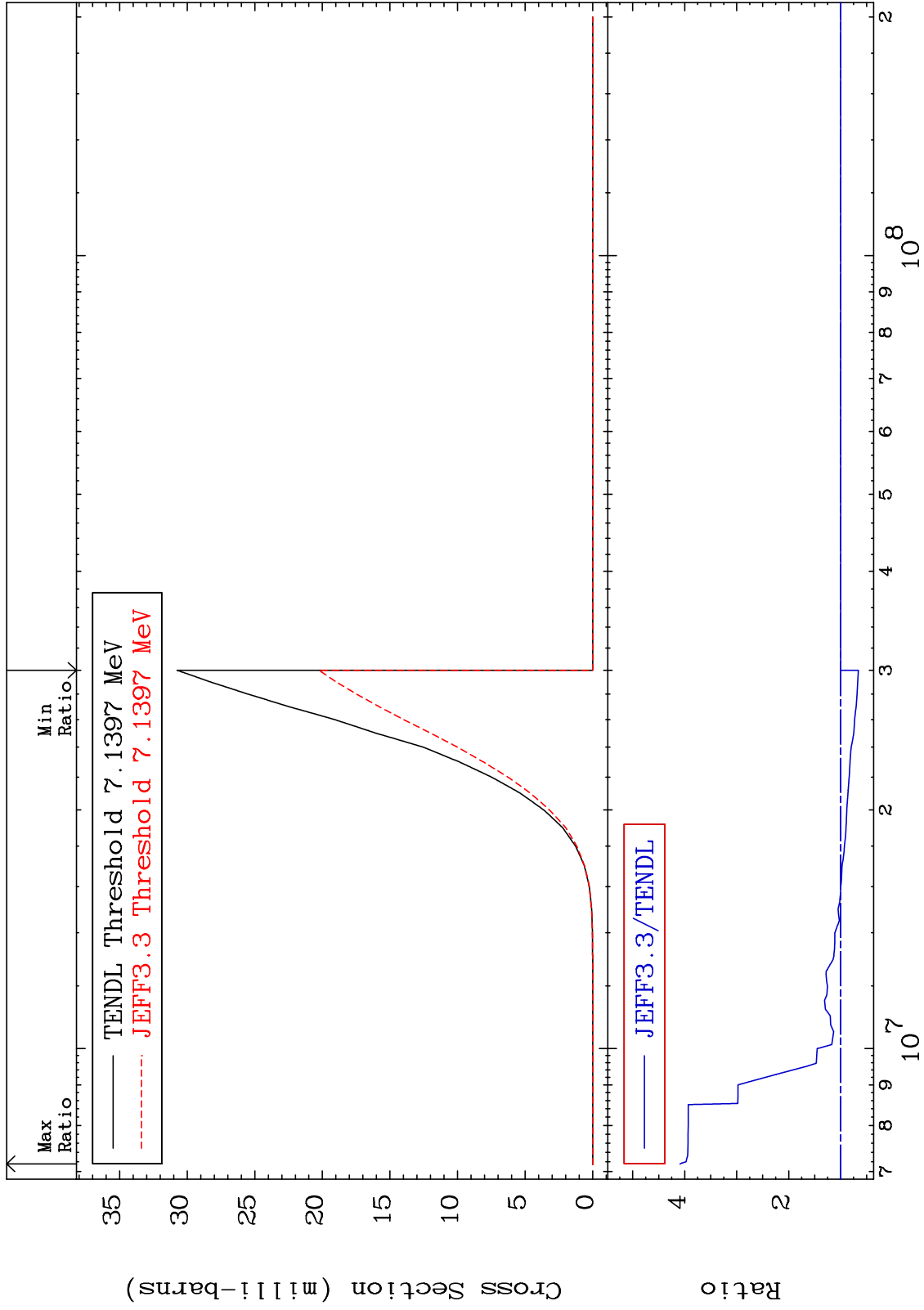
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-34.14 To 309.0 %

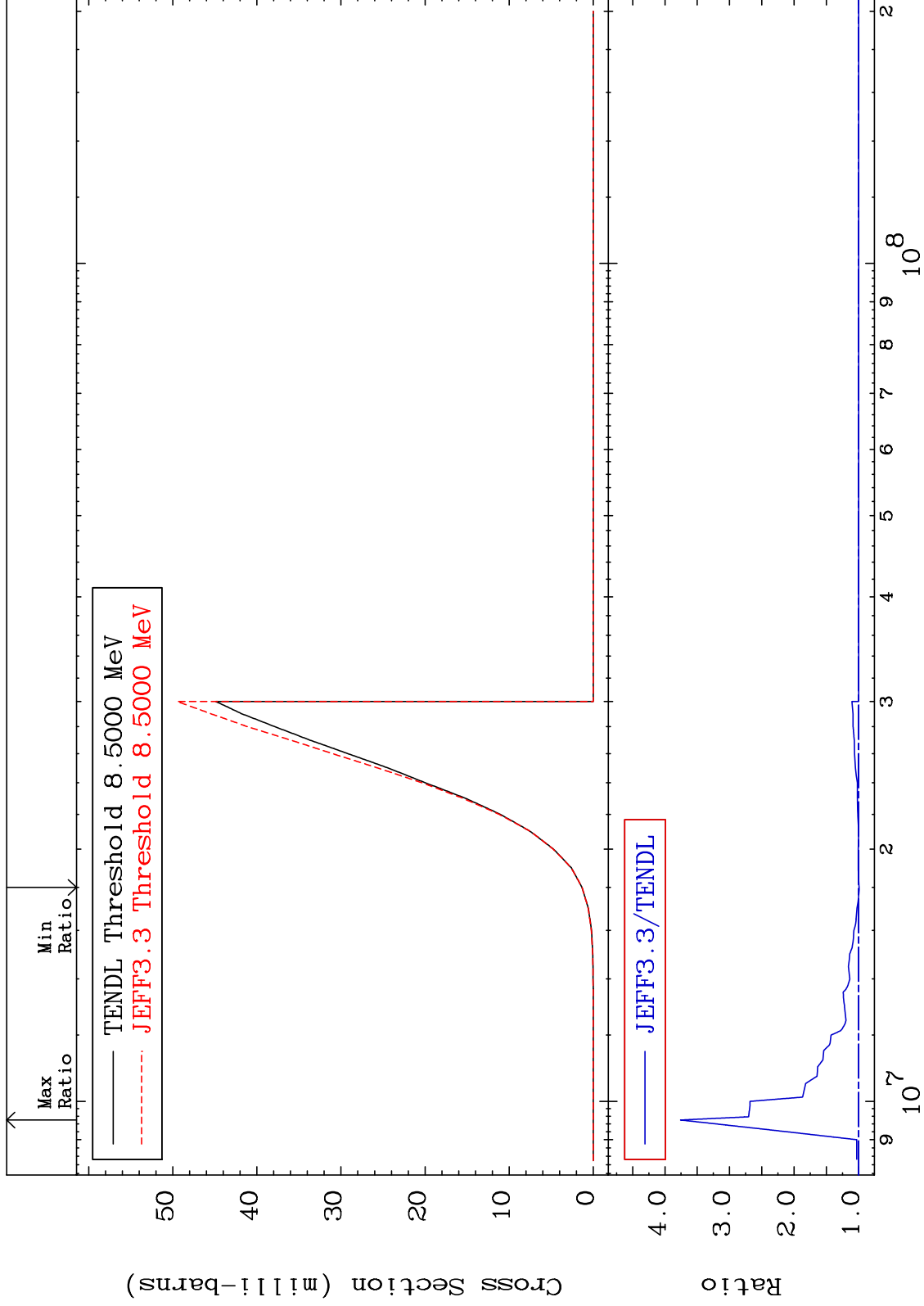


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -0.835 To 275.7 %



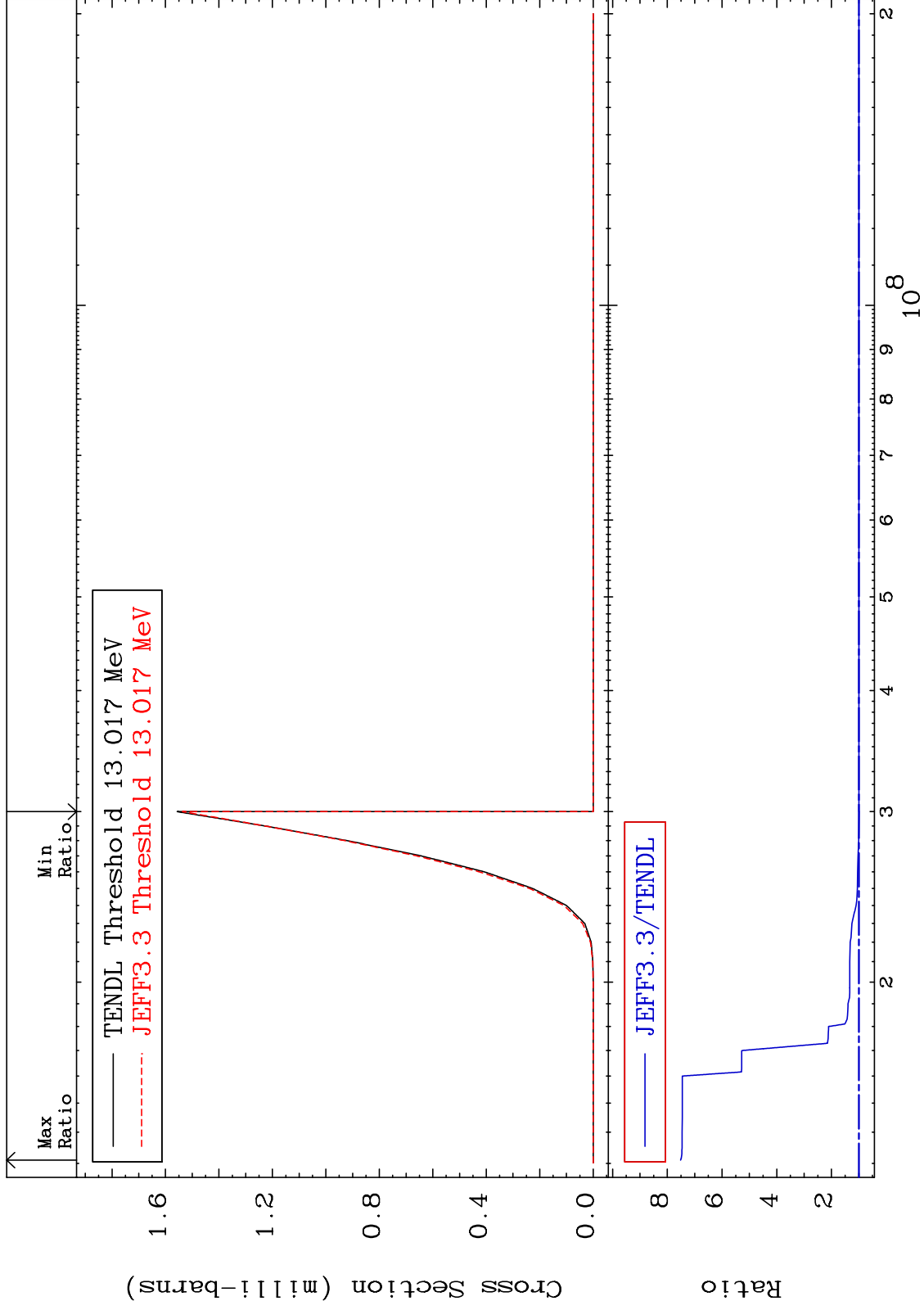
85

Incident Energy (eV)

80-Hg-198

MAT 8031

(n, n') d:79-Au-196g 80-Hg-198  
Radionuclide Production Cross Section -1.254 To 651.3 %



86

Incident Energy (eV)

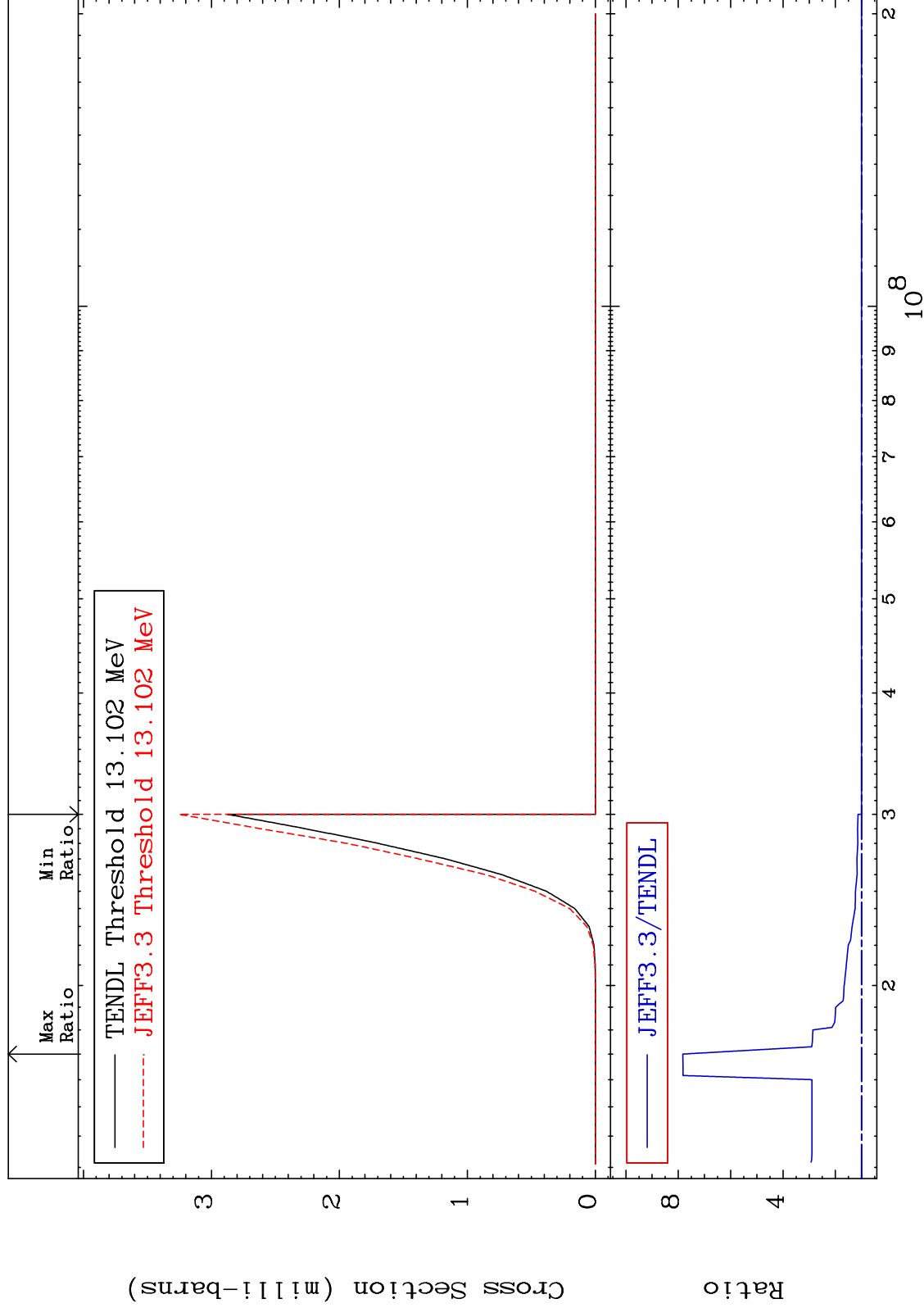
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 682.5 %



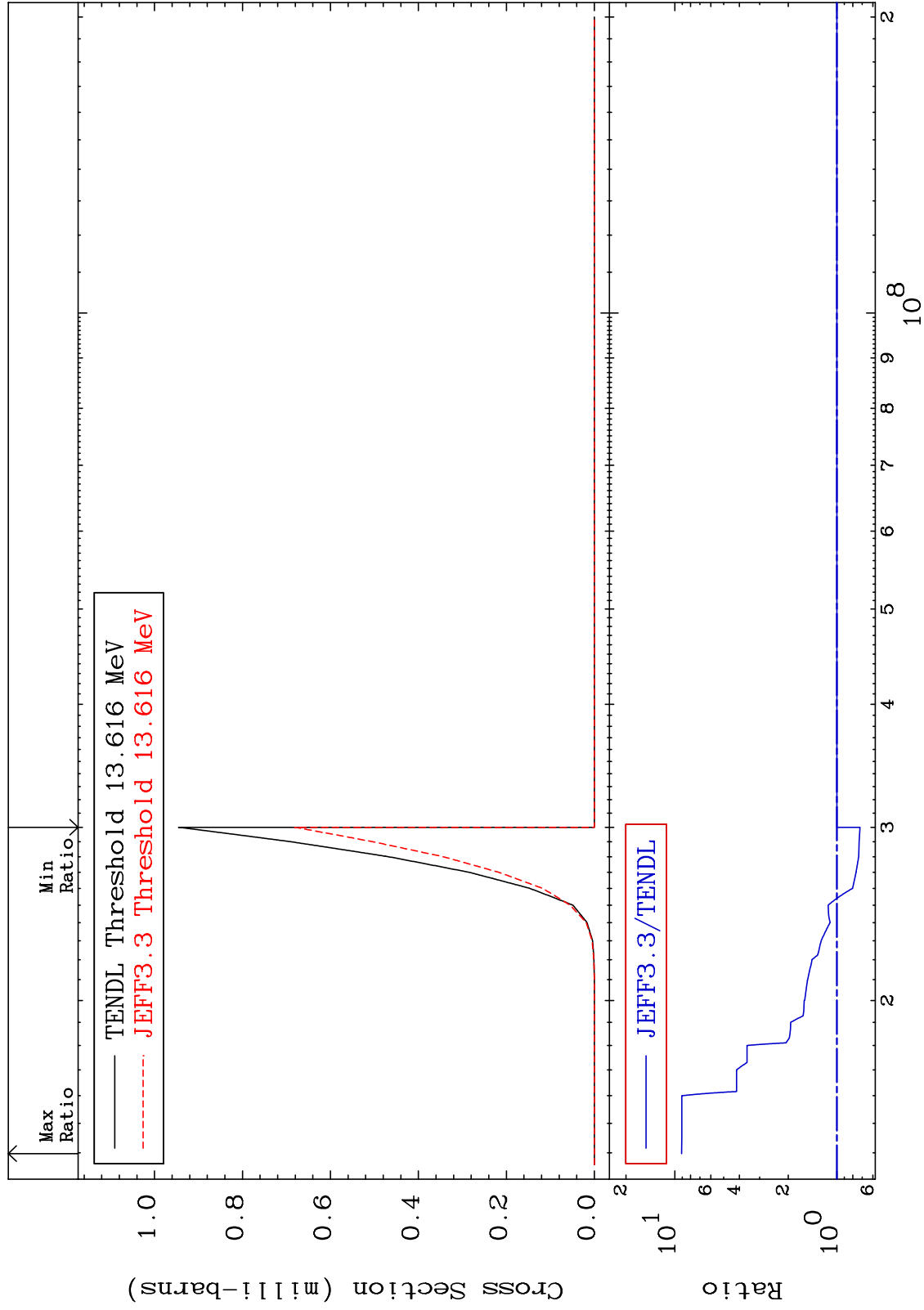


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -27.93 To 807.3 %

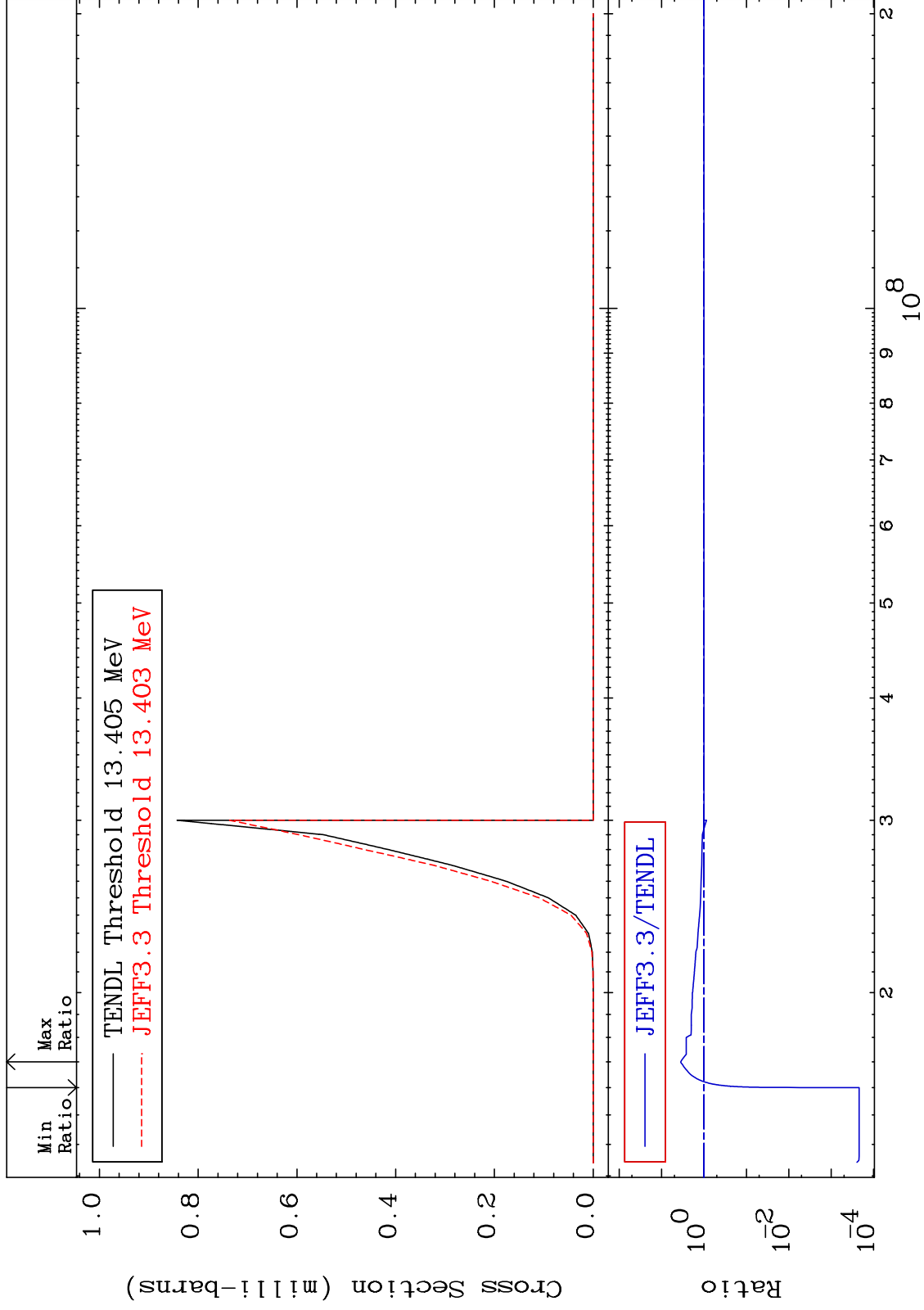


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -99.98 To 255.6 %

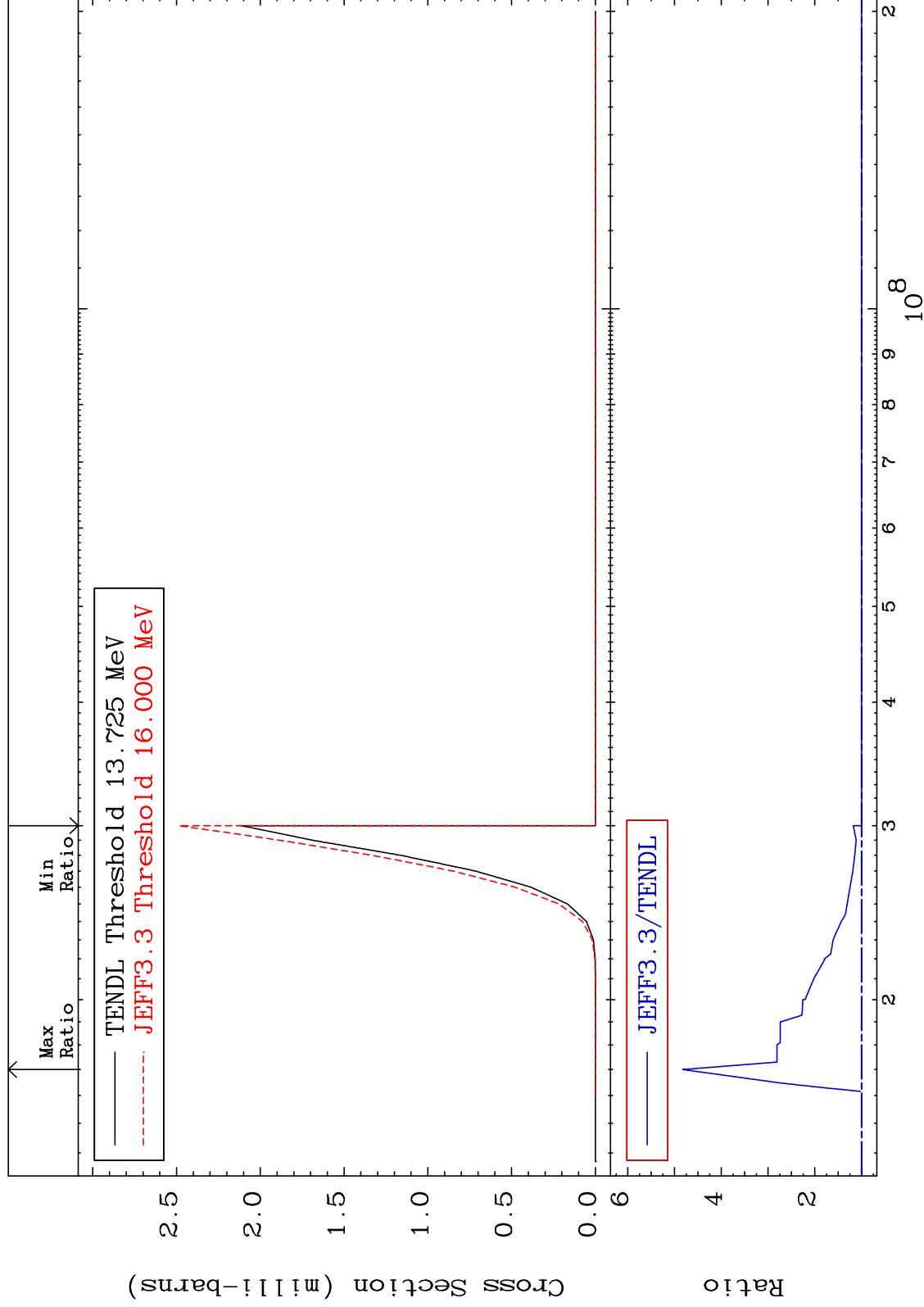


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 382.1 %



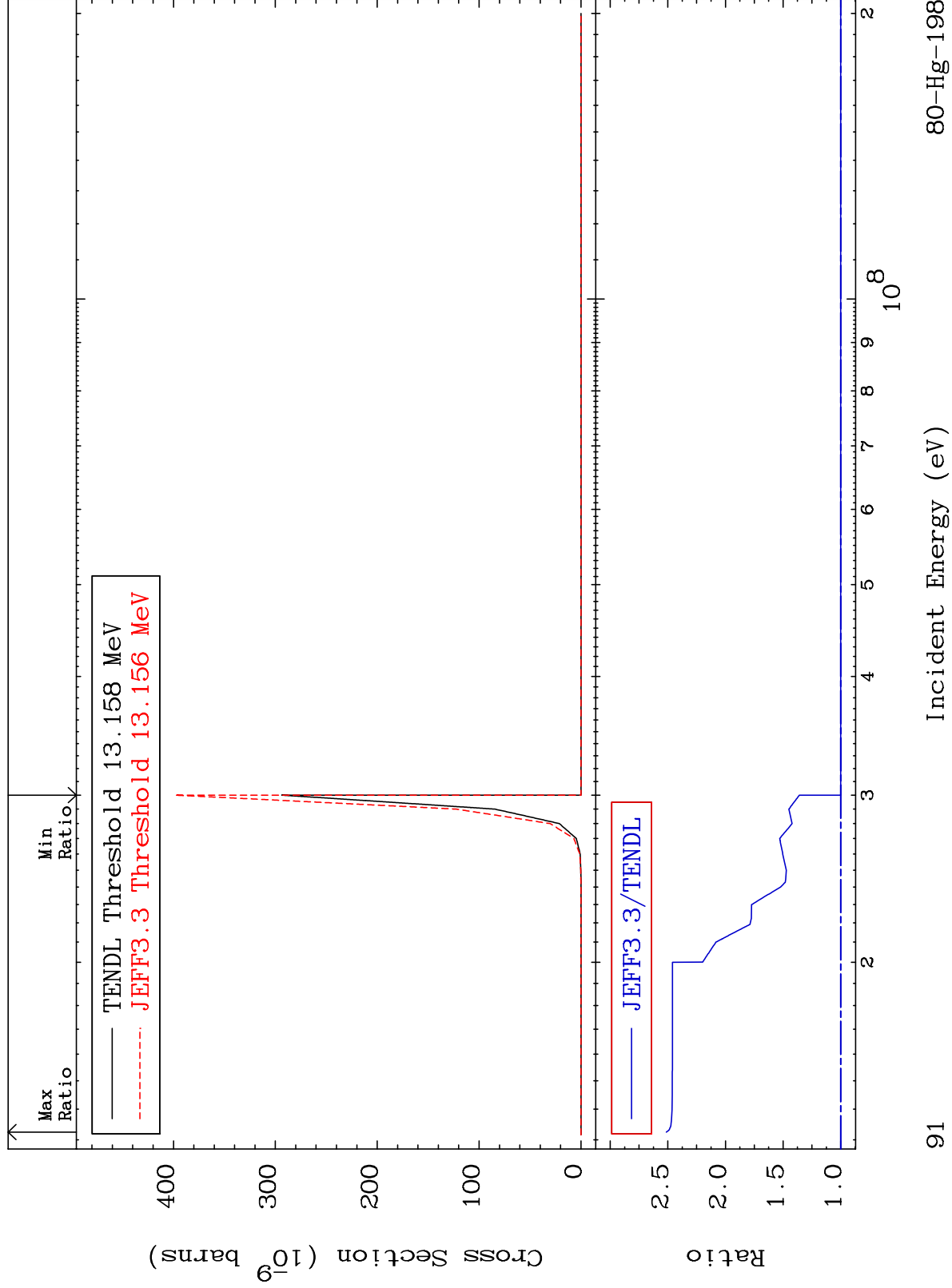
90

Incident Energy (eV)

80-Hg-198

MAT 8031

(n, n') He-3:78-Pt-195g 80-Hg-198  
Radionuclide Production Cross Section 0.000 To 151.3 %

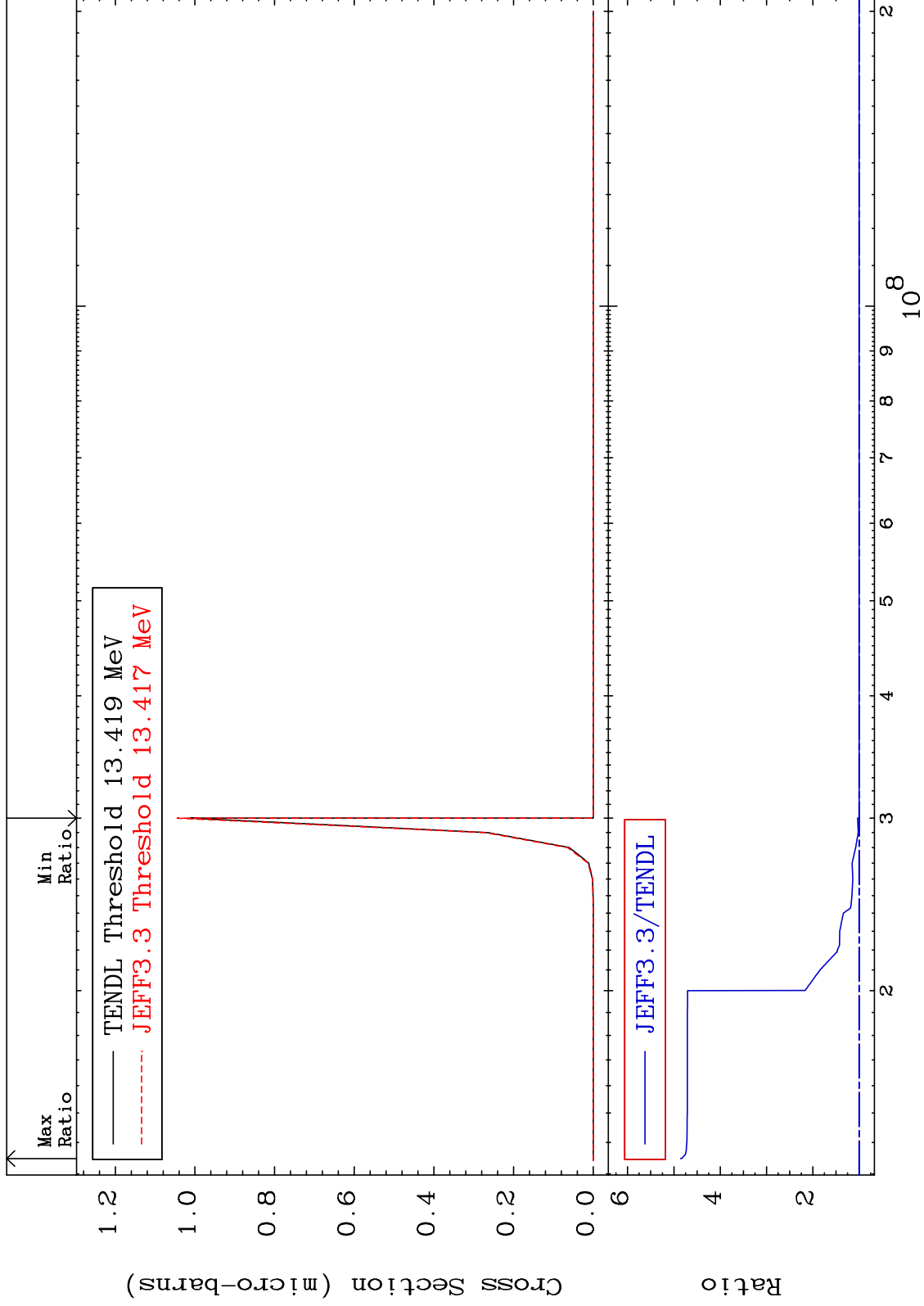


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 385.5 %

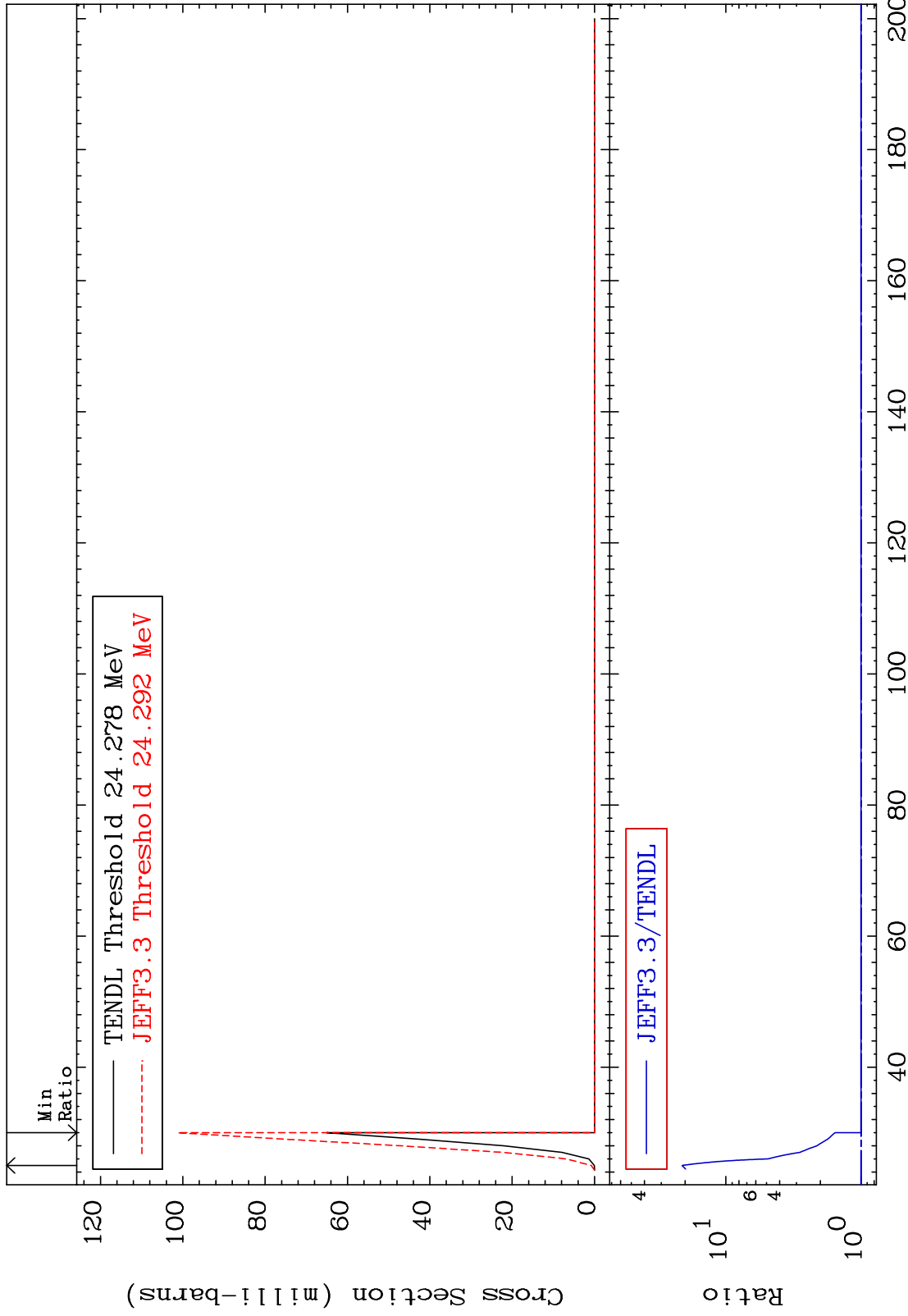


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 2006. %

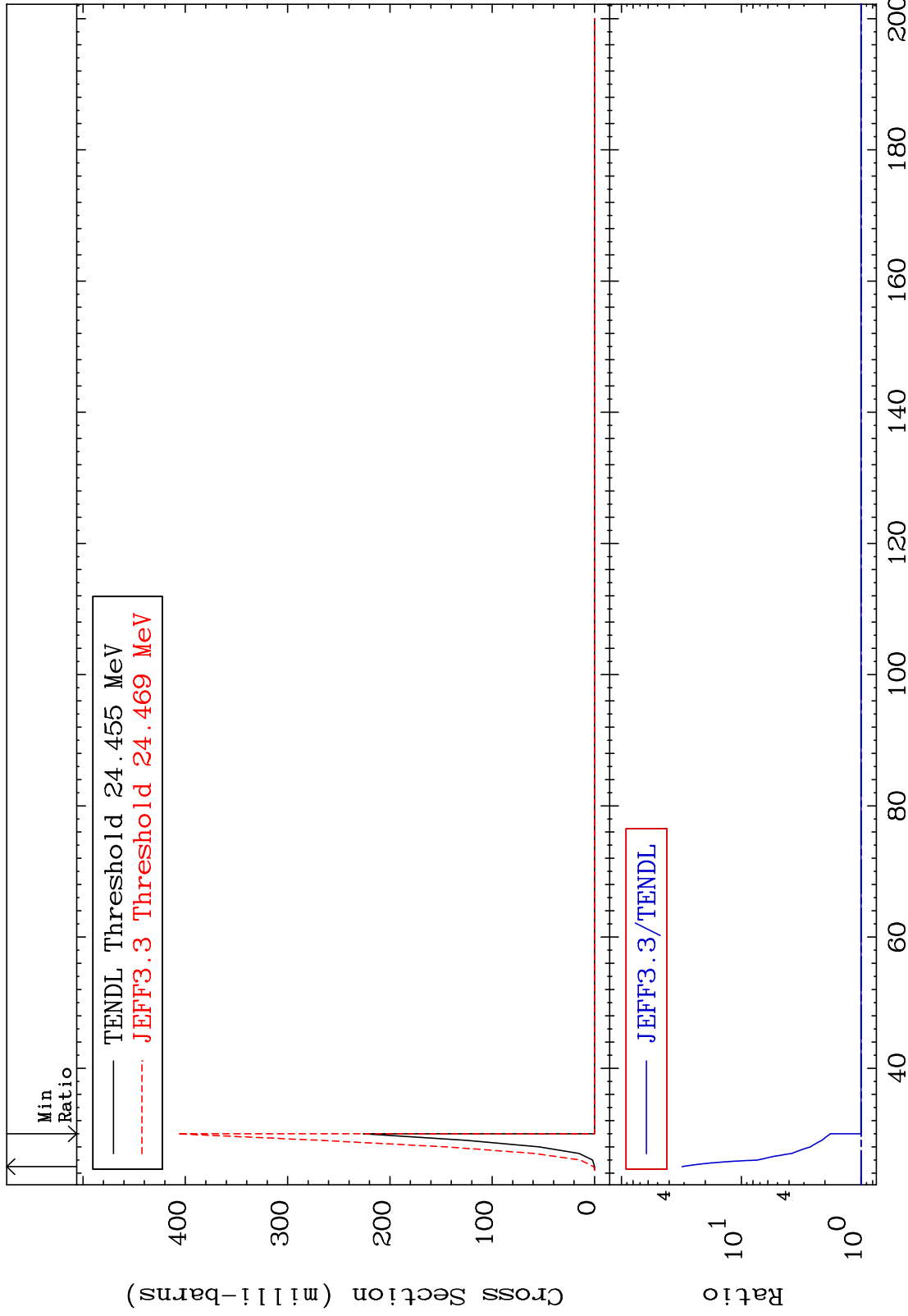


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 3018. %

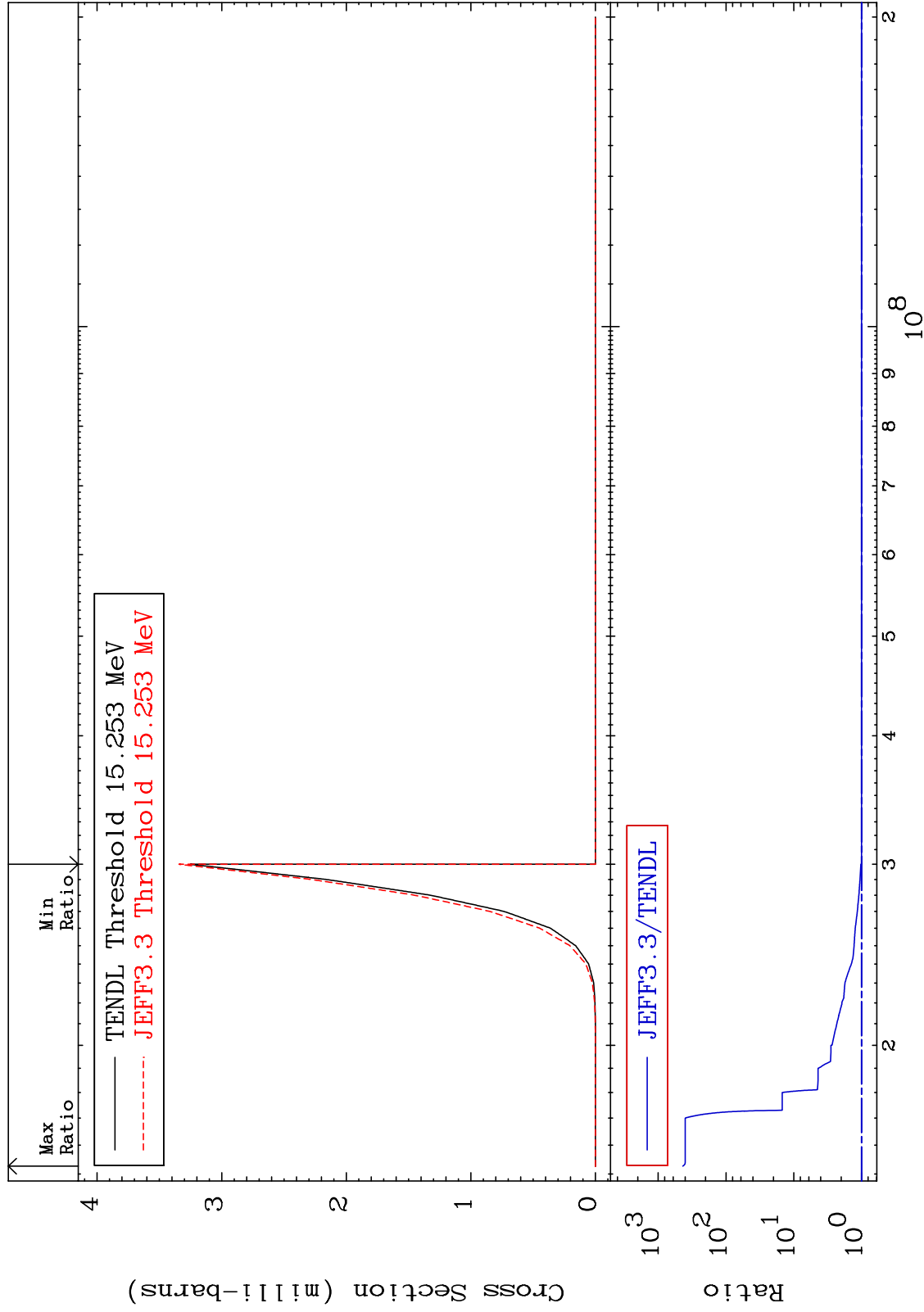


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



95

80-Hg-198

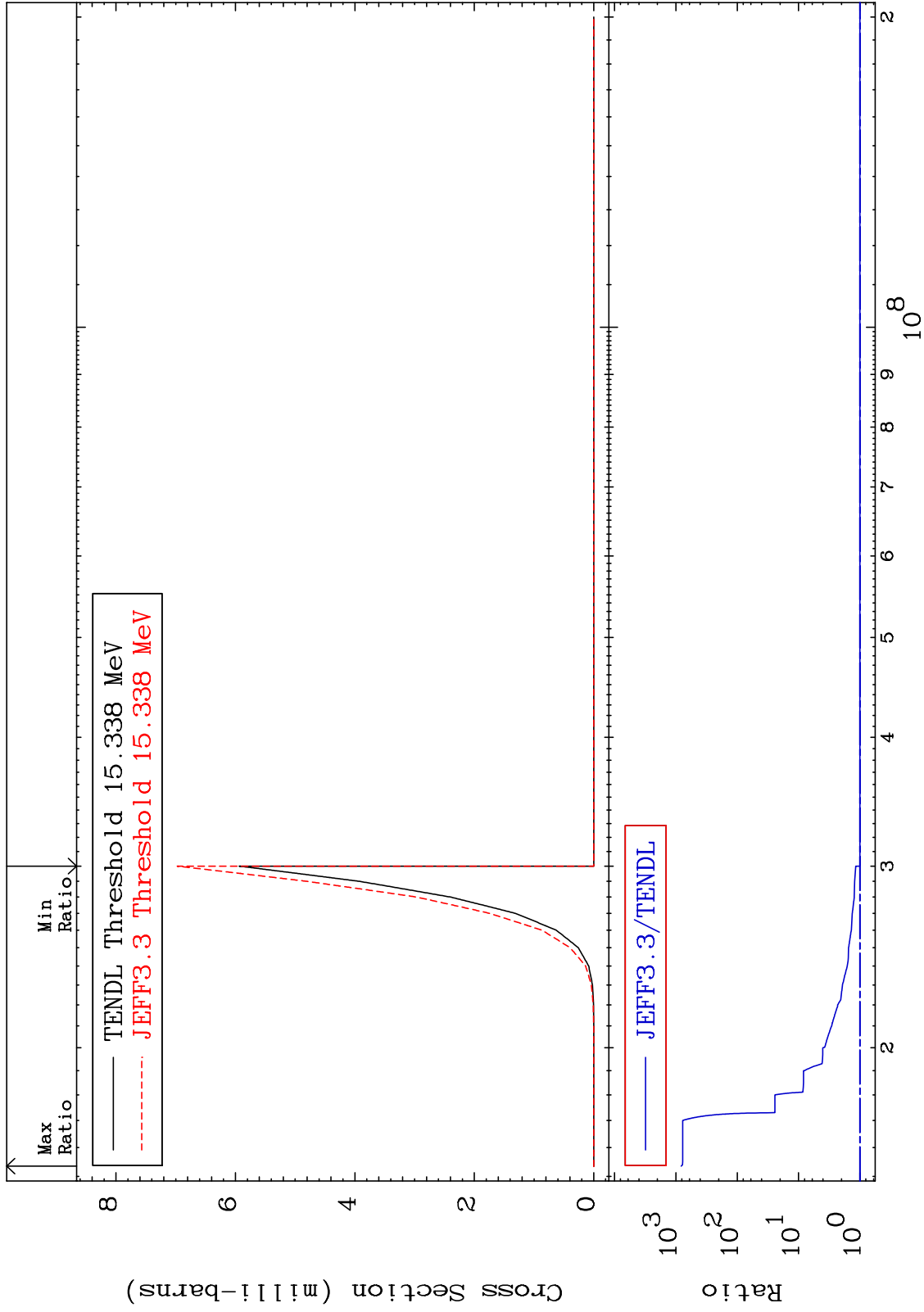


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %

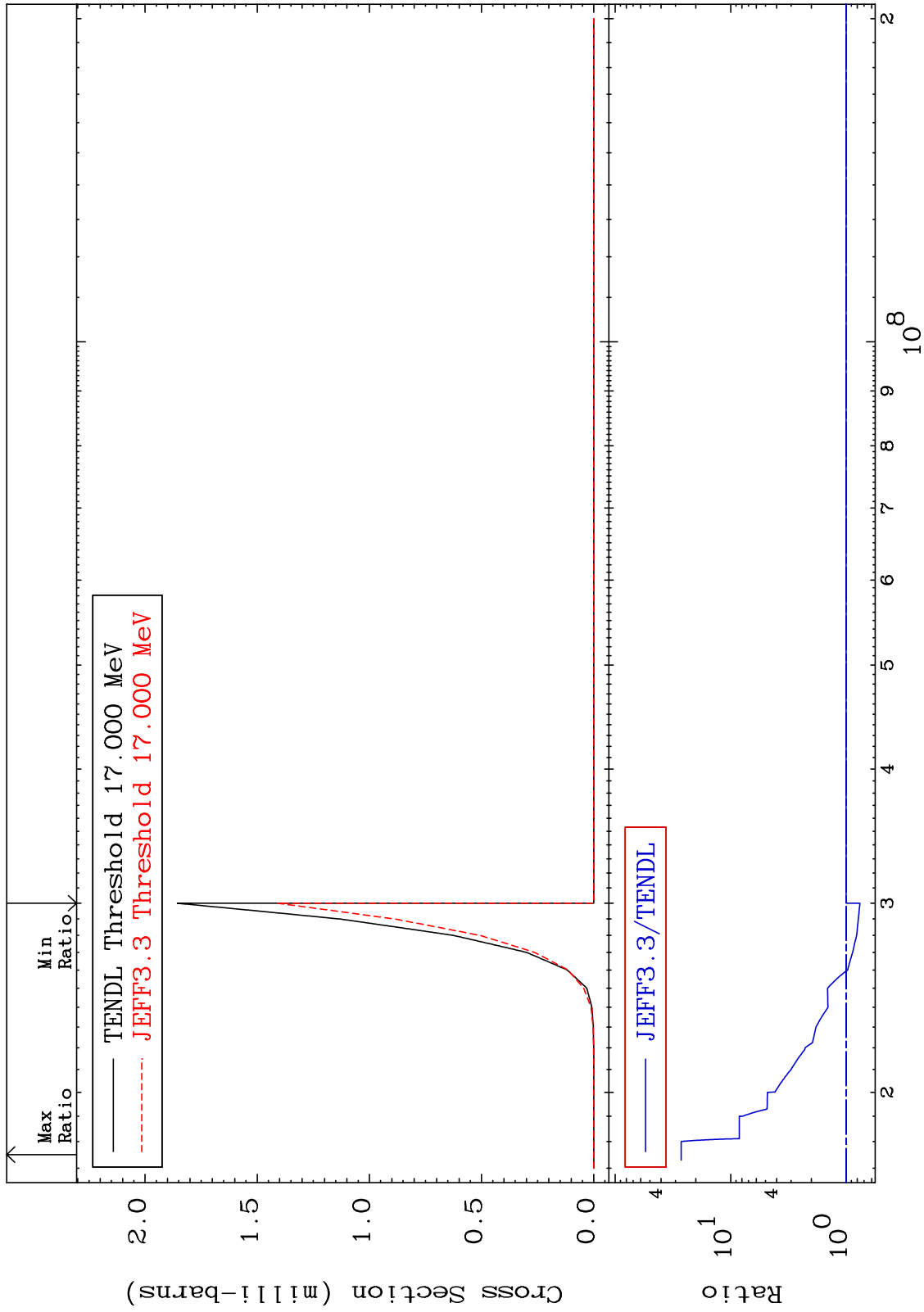


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -24.03 To 2580. %



97

Incident Energy (eV)

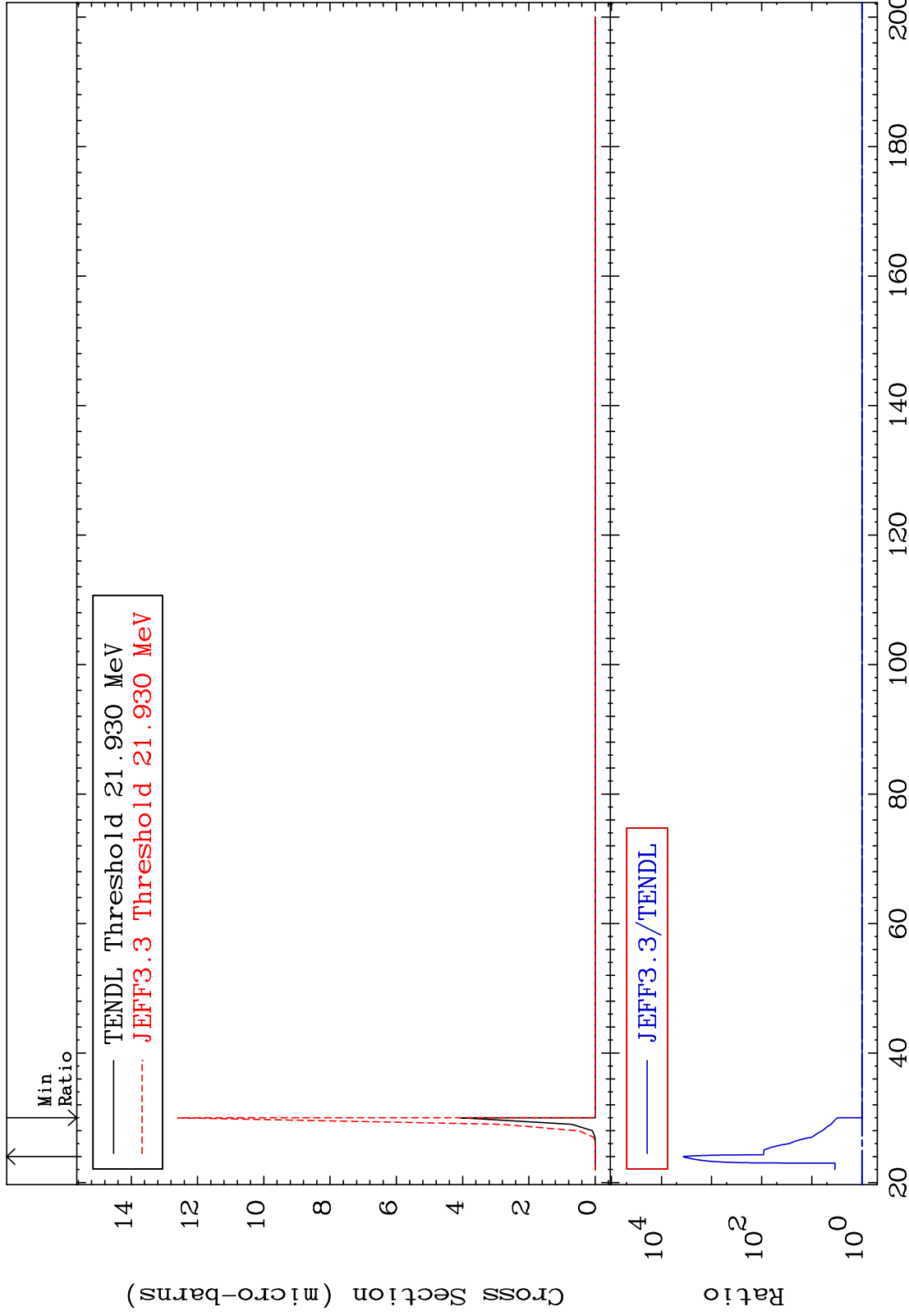
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



98

Incident Energy (MeV)

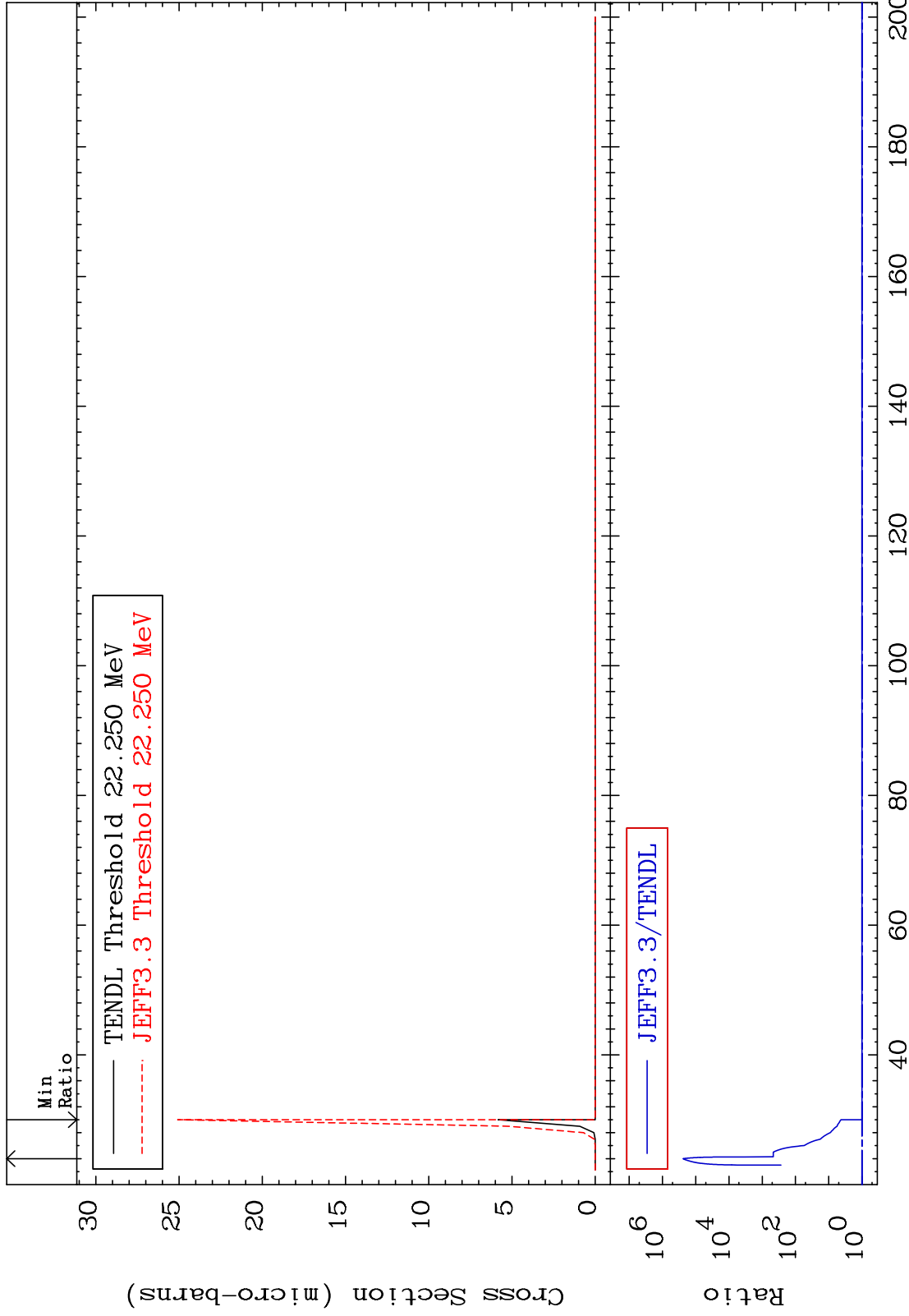
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



99

Incident Energy (MeV)

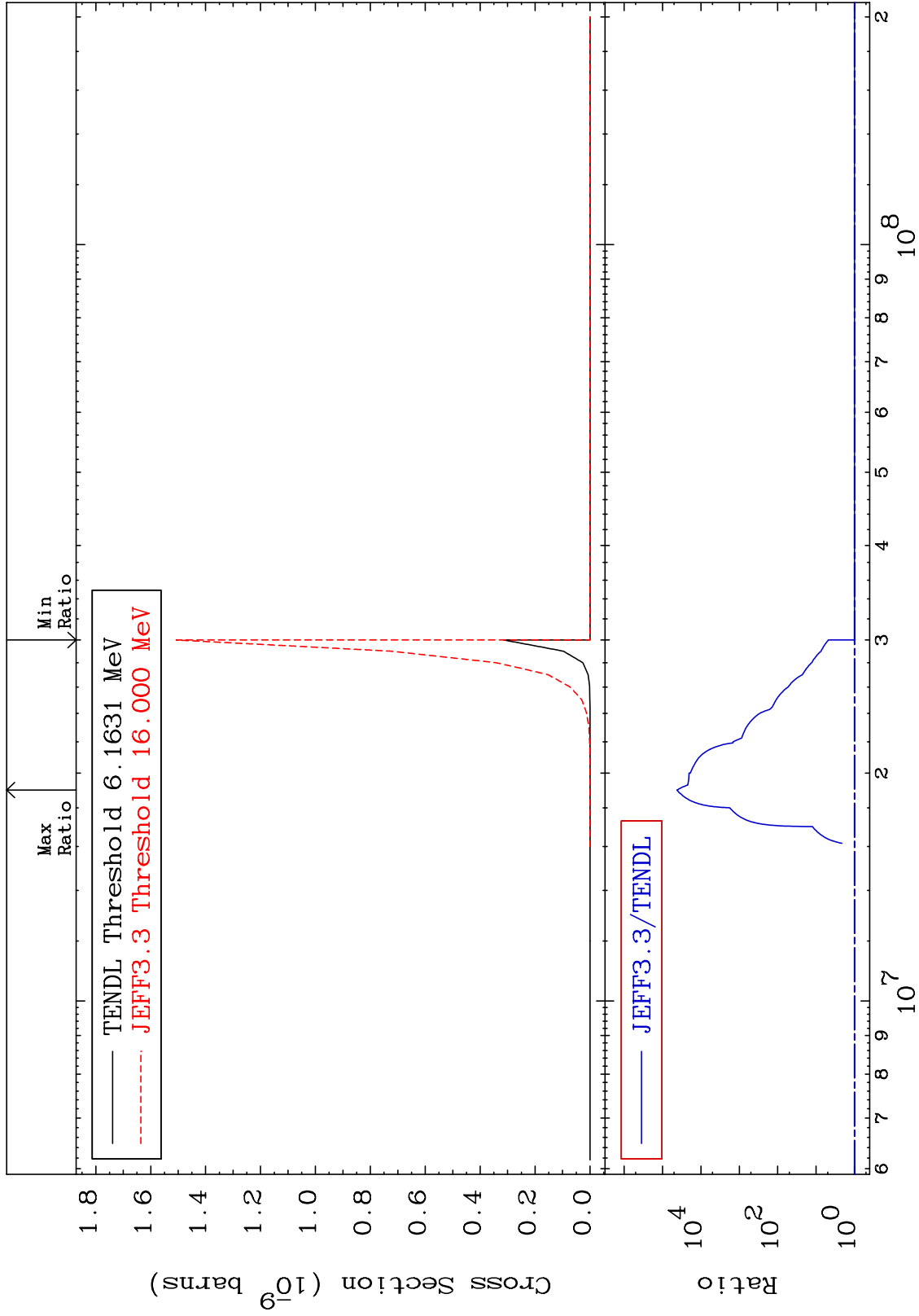
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



100

Incident Energy (eV)

80-Hg-198

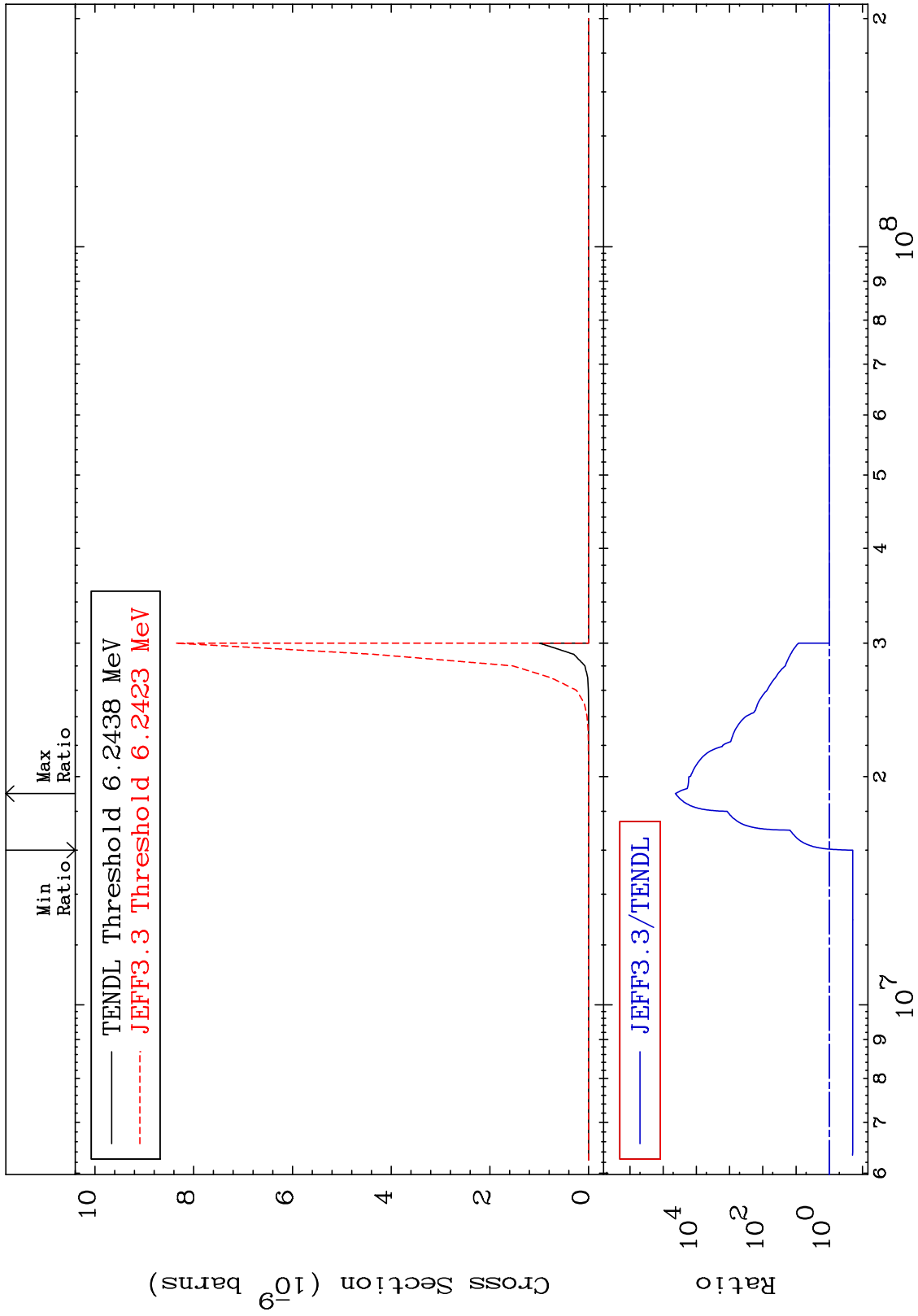
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-80.43 To 9999. %



101

Incident Energy (eV)

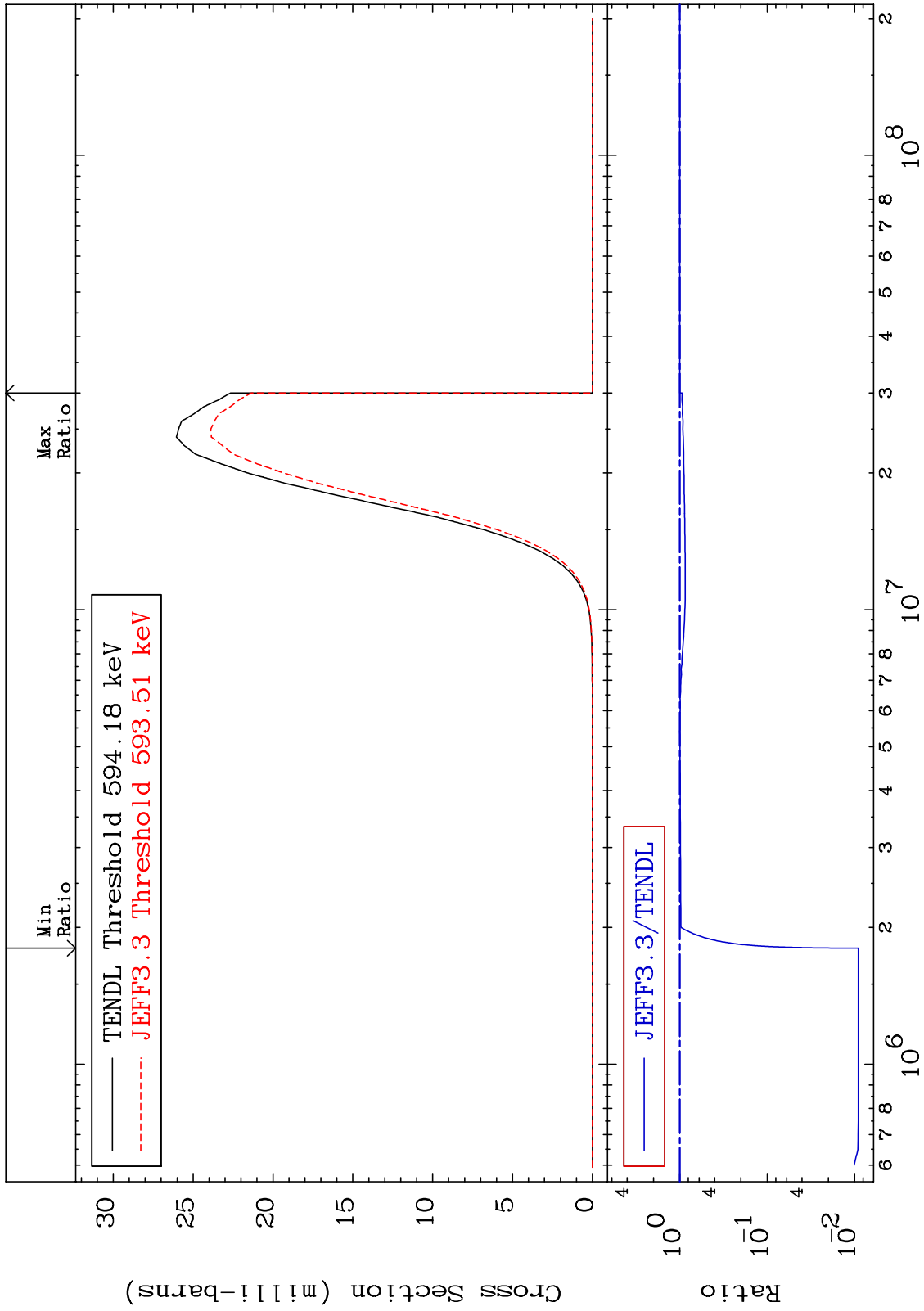
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -99.09 To 0.000 %



102

Incident Energy (eV)

80-Hg-198

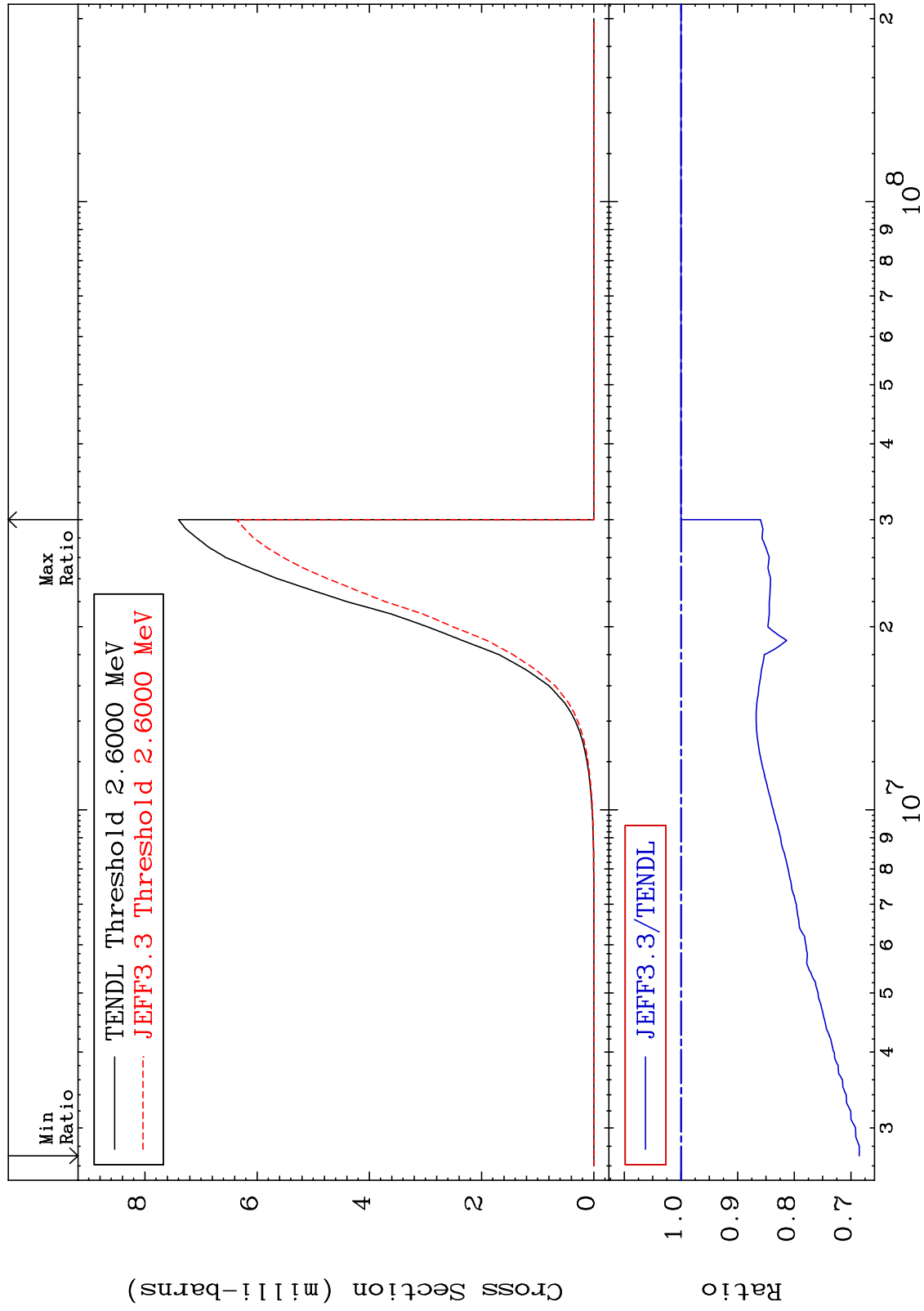
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-31.48 To 0.000 %



103

Incident Energy (eV)

80-Hg-198



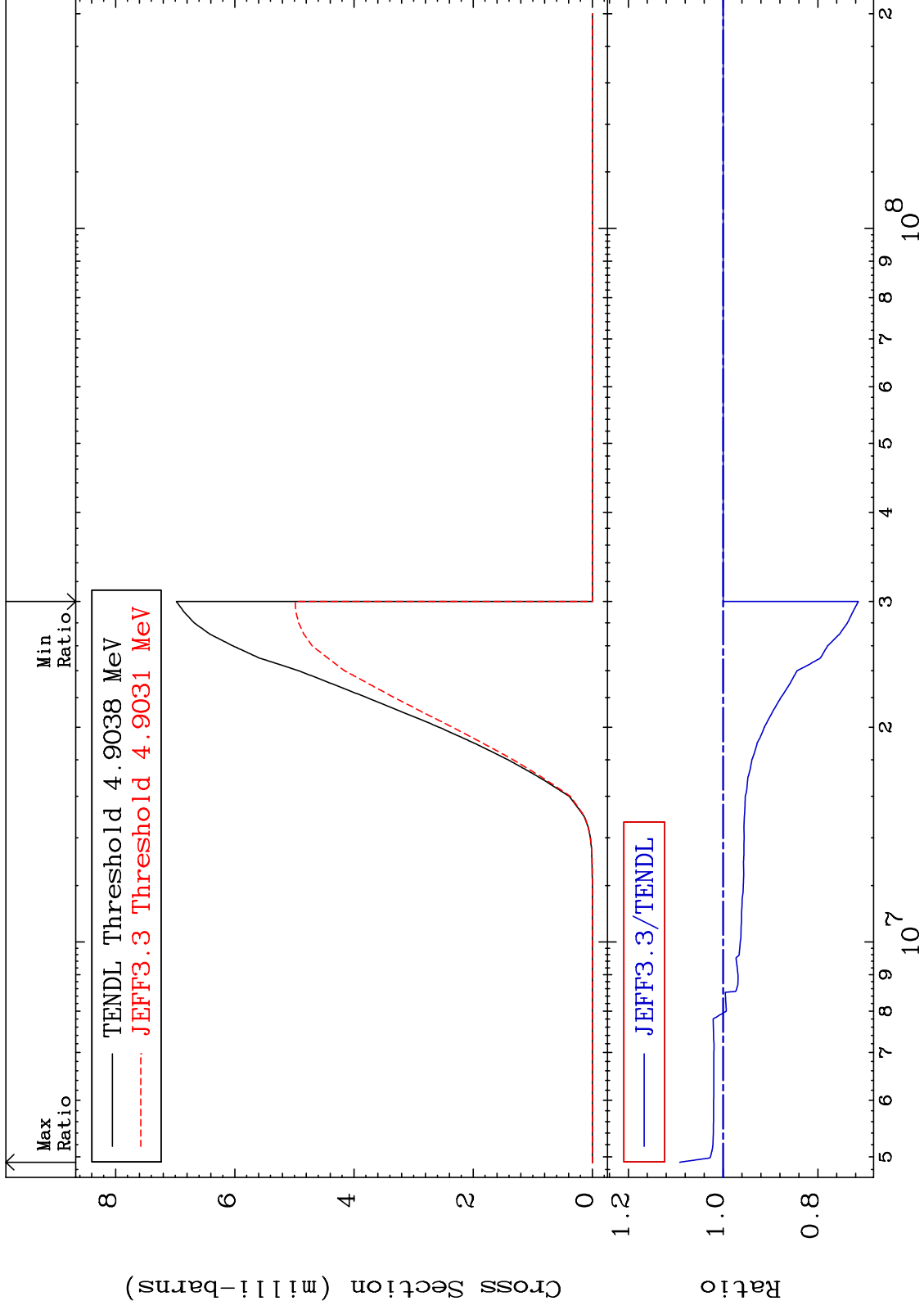
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-28.55 To 9.135 %



104

Incident Energy (eV)

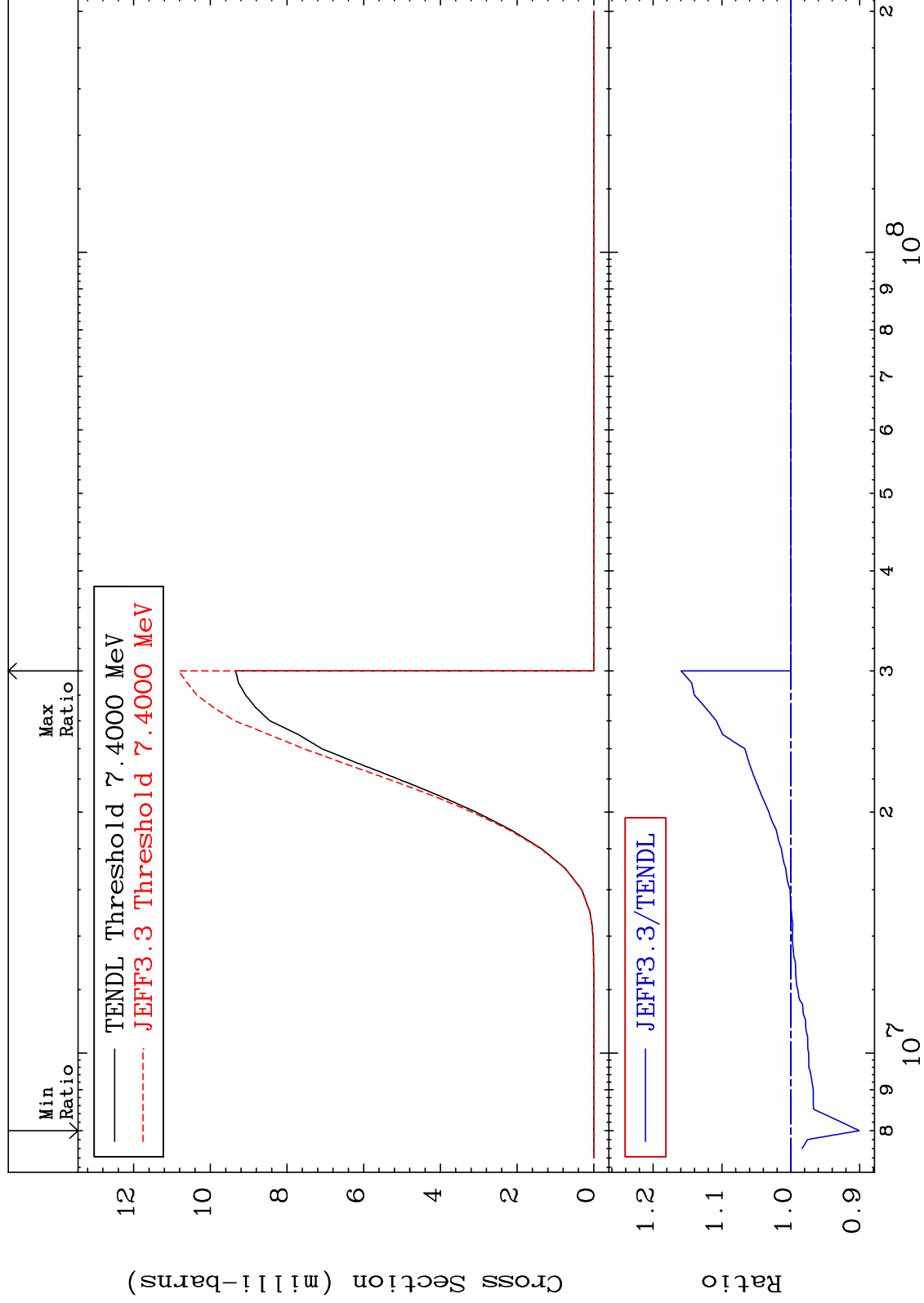
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -9.943 To 15.95 %



105

Incident Energy (eV)

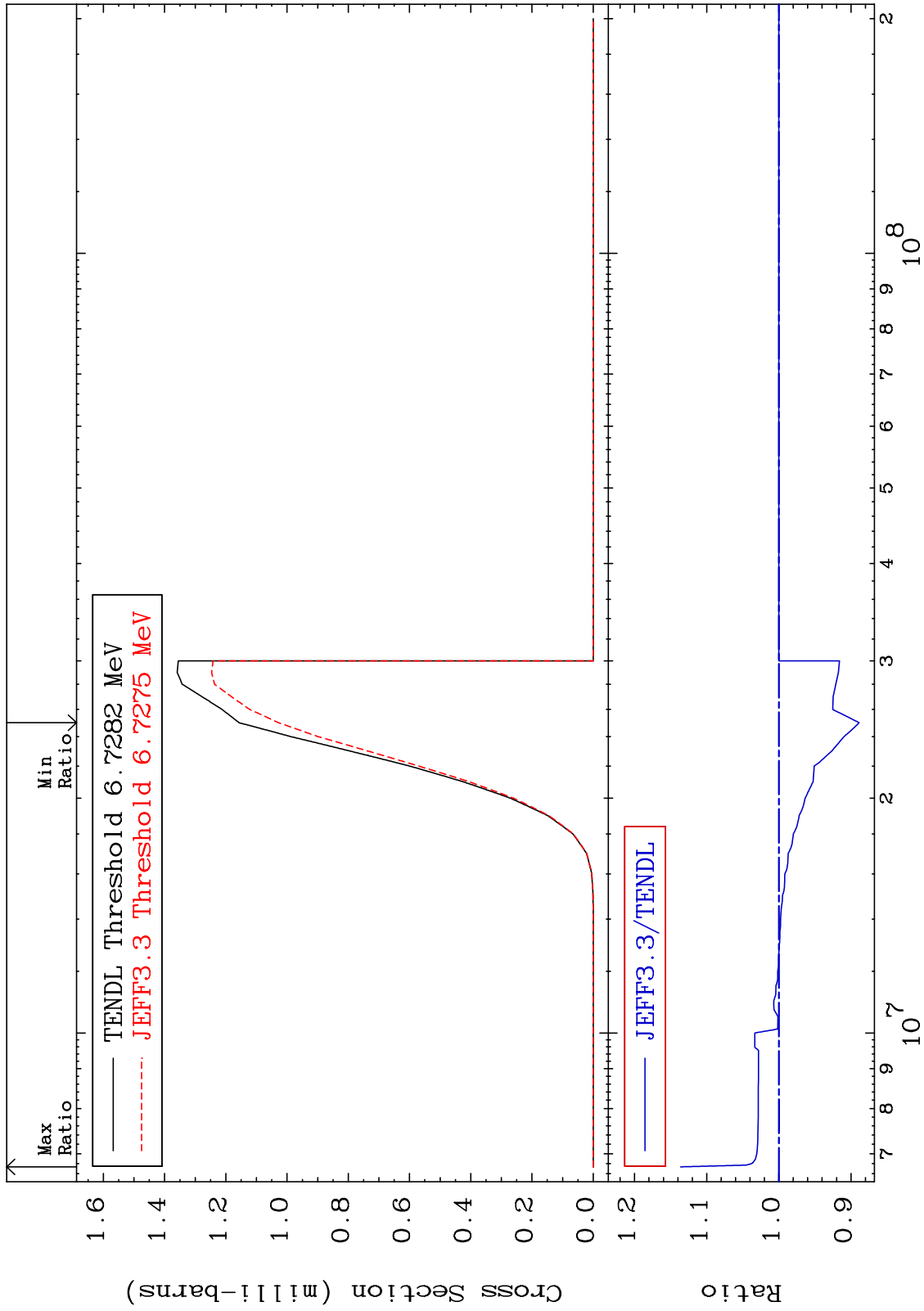
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -11.14 To 13.62 %



106

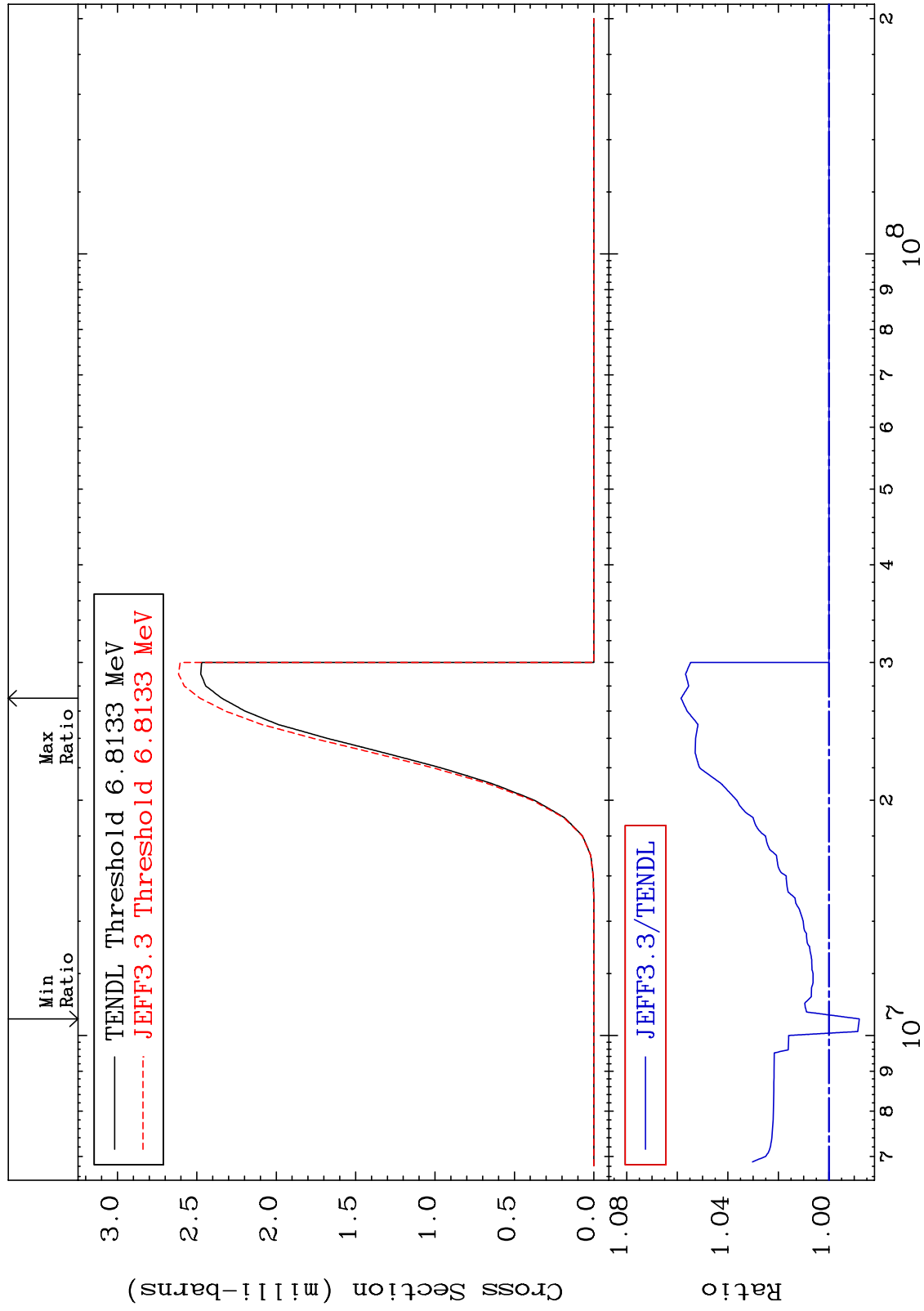
MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section

-1.198 To 5.849 %



107

Incident Energy (eV)

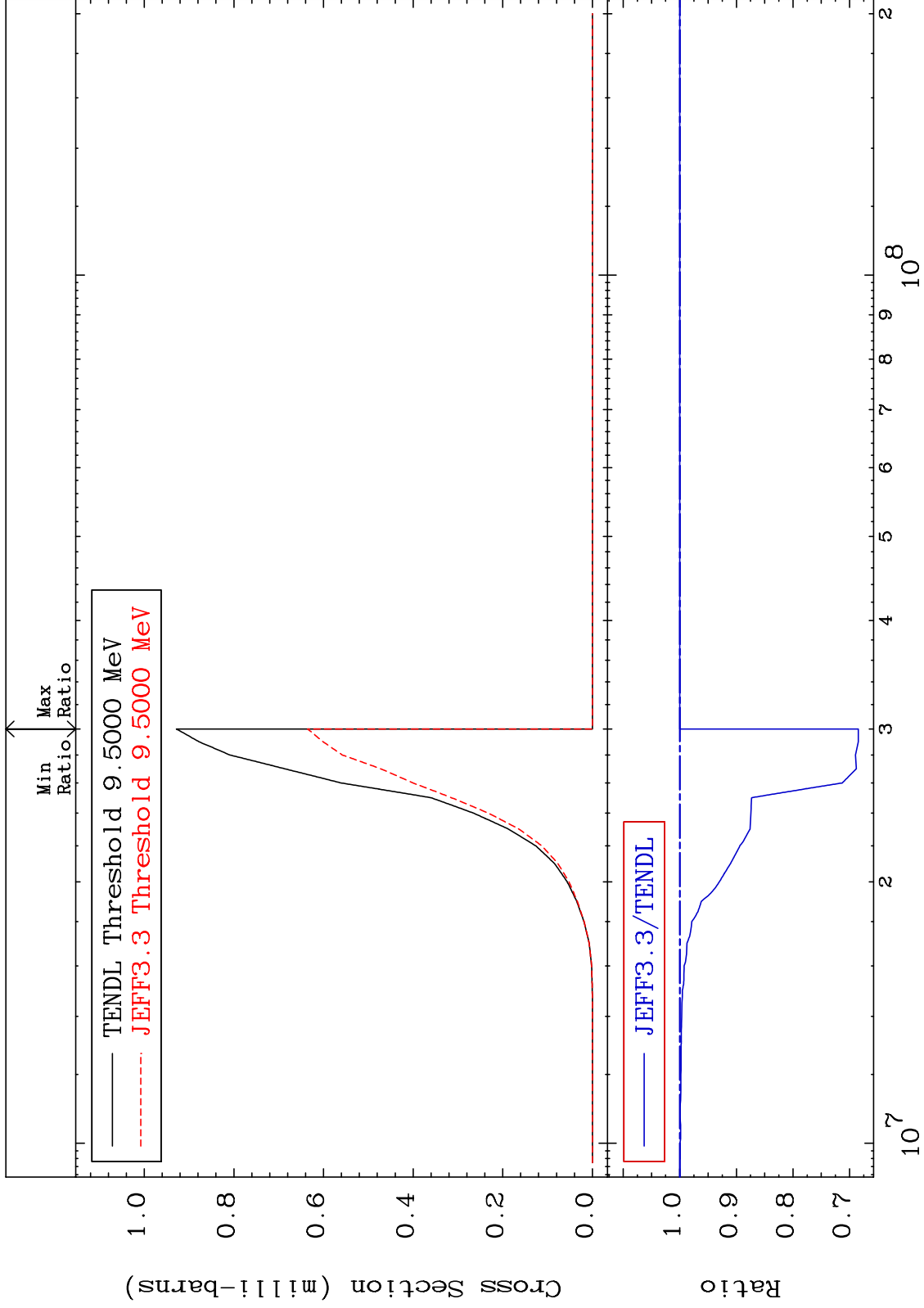
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -31.55 To 0.000 %



108

Incident Energy (eV)

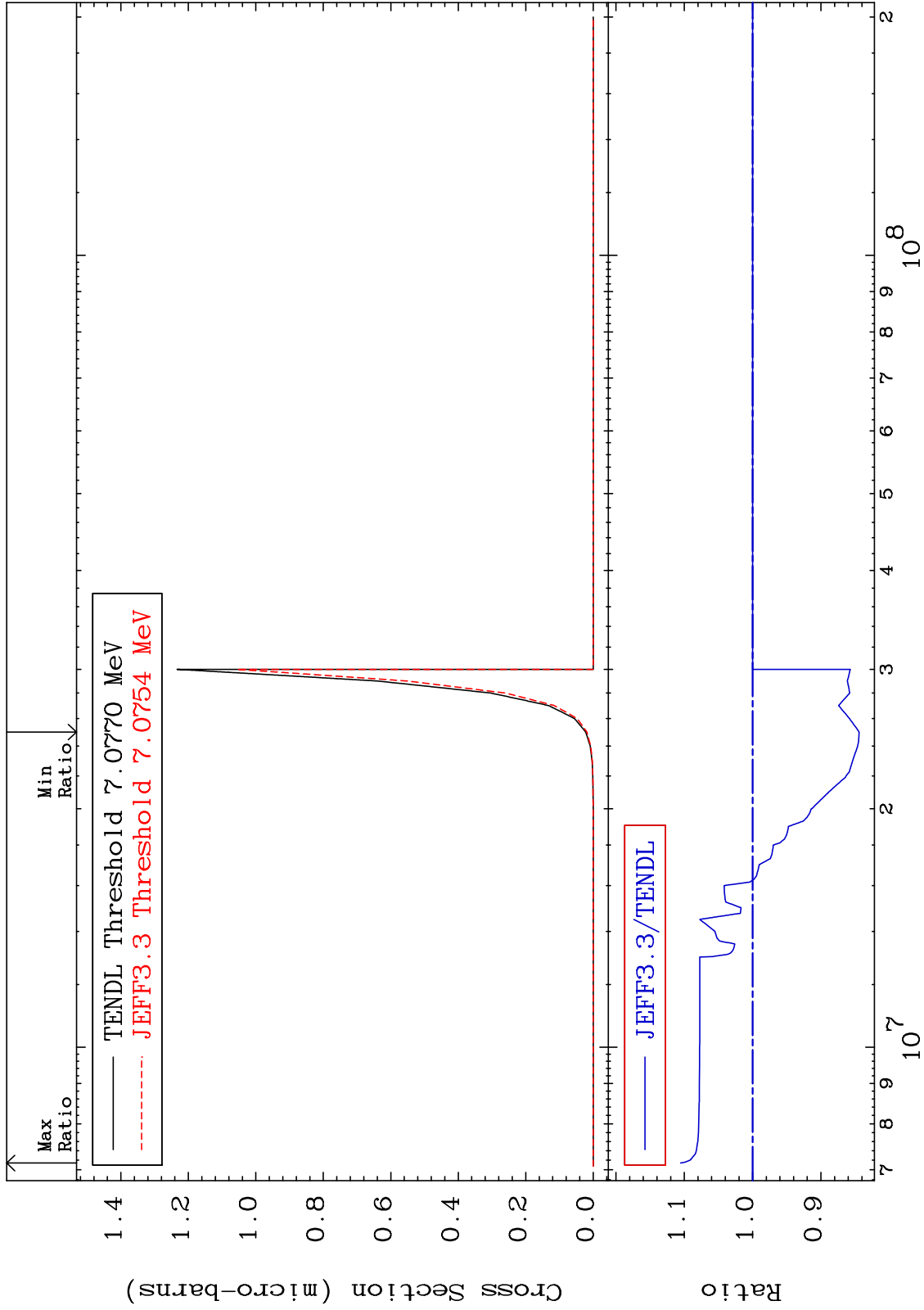
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -15.60 To 10.54 %



109

Incident Energy (eV)

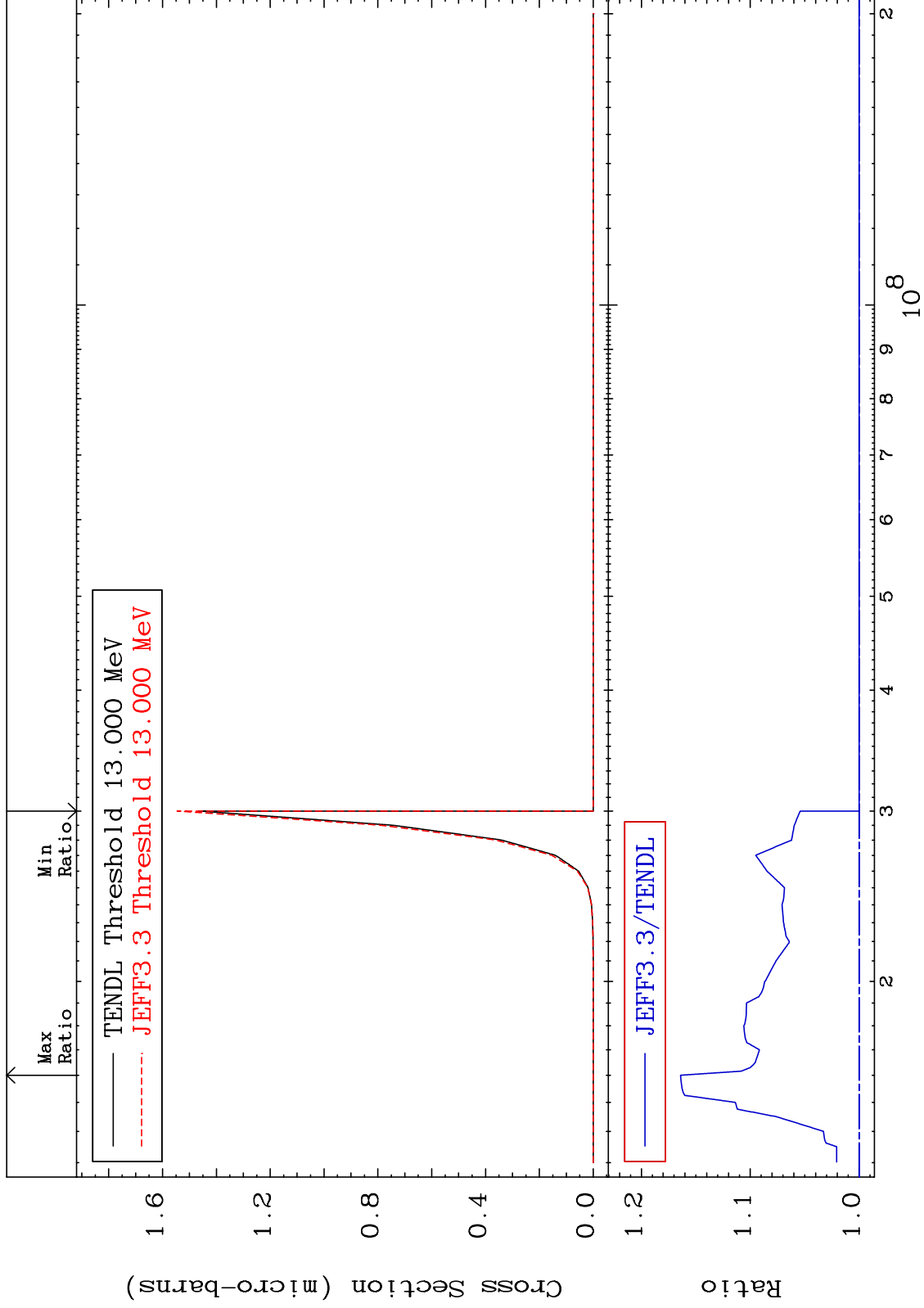
80-Hg-198

MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 16.40 %



110

Incident Energy (eV)

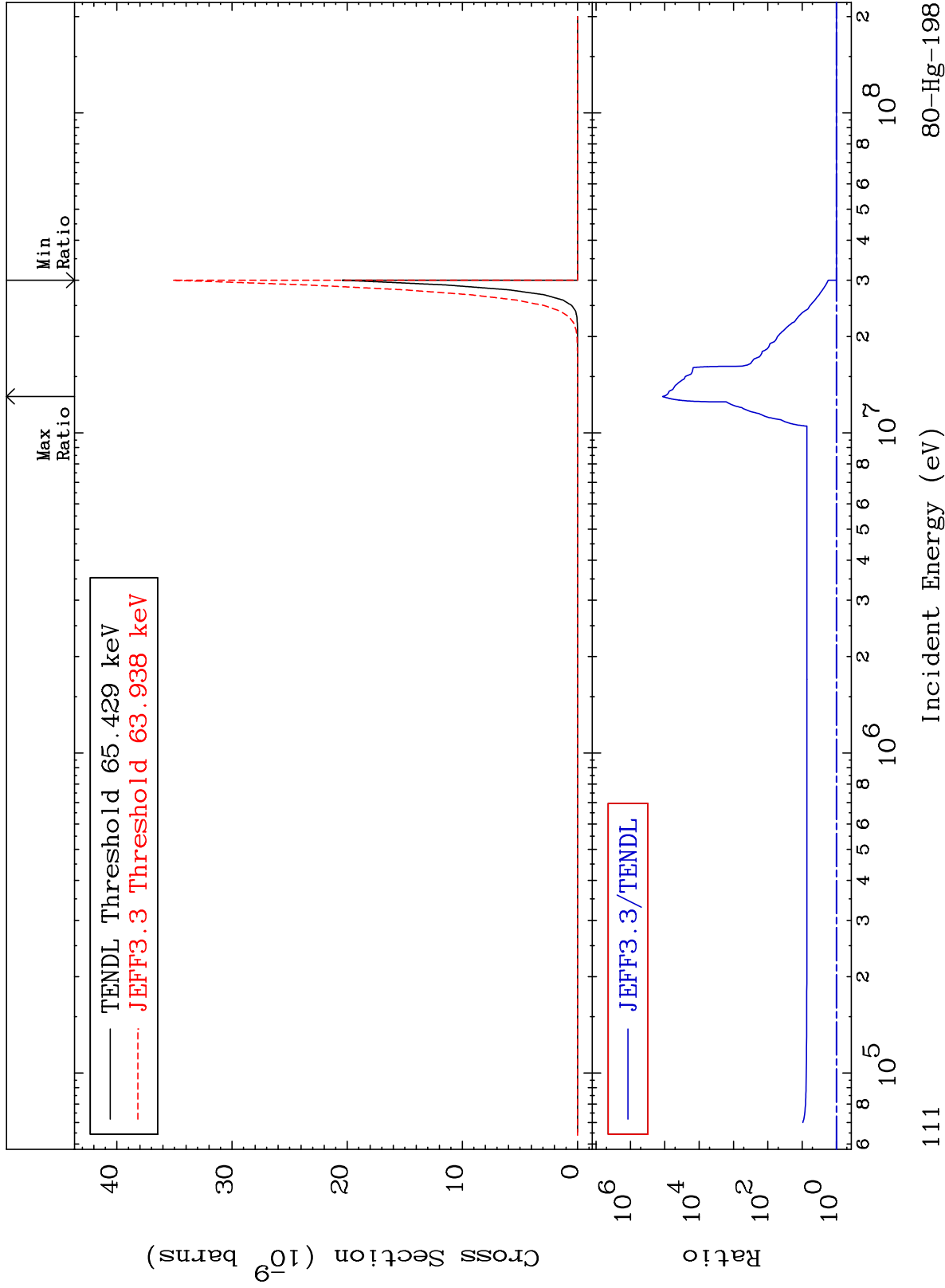
80-Hg-198

MAT 8031

(n, p)  $\alpha$ : 77-Ir-194g

80-Hg-198

Radionuclide Production Cross Section 0.000 To 9999. %



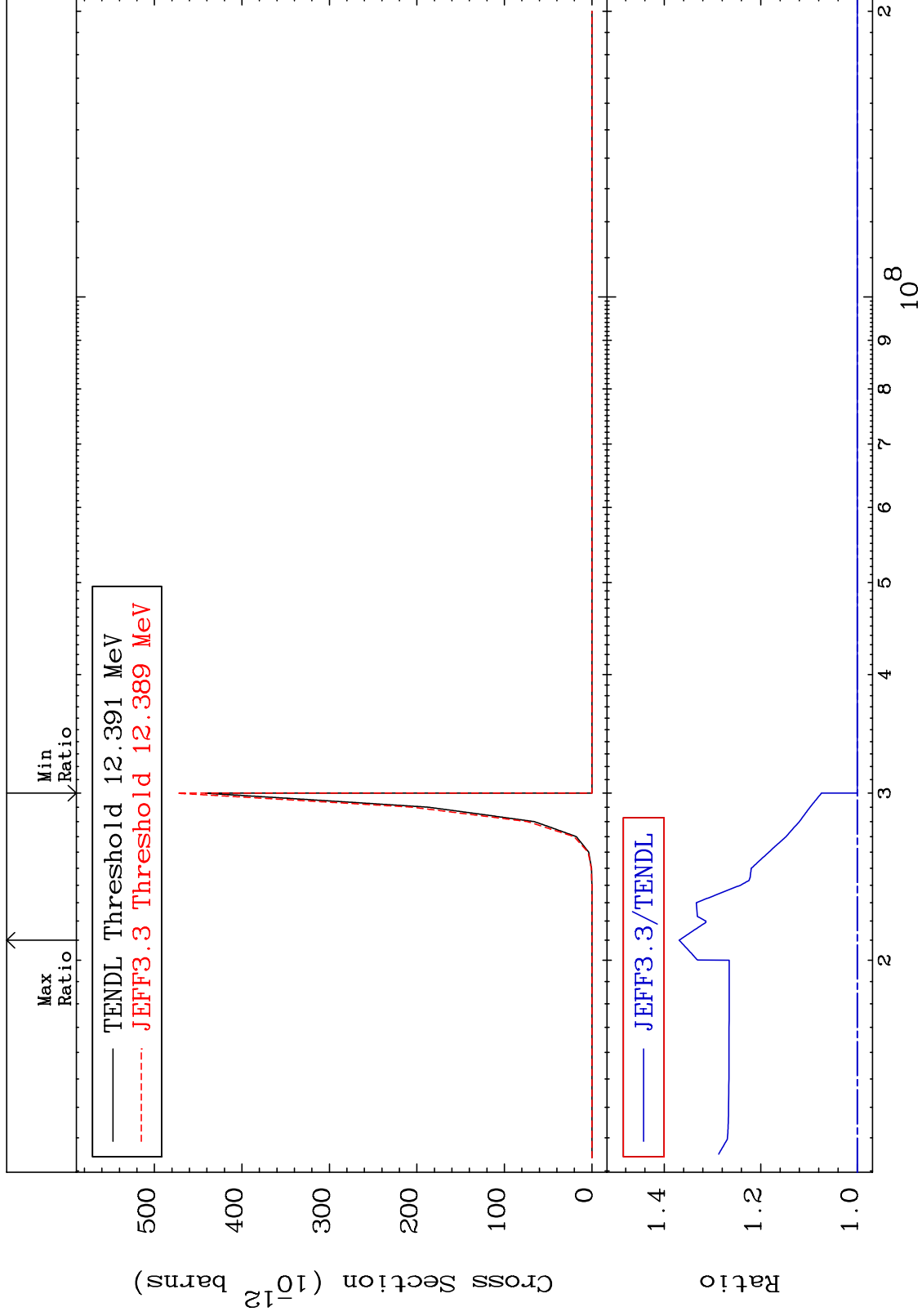


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section 0.000 To 36.91 %

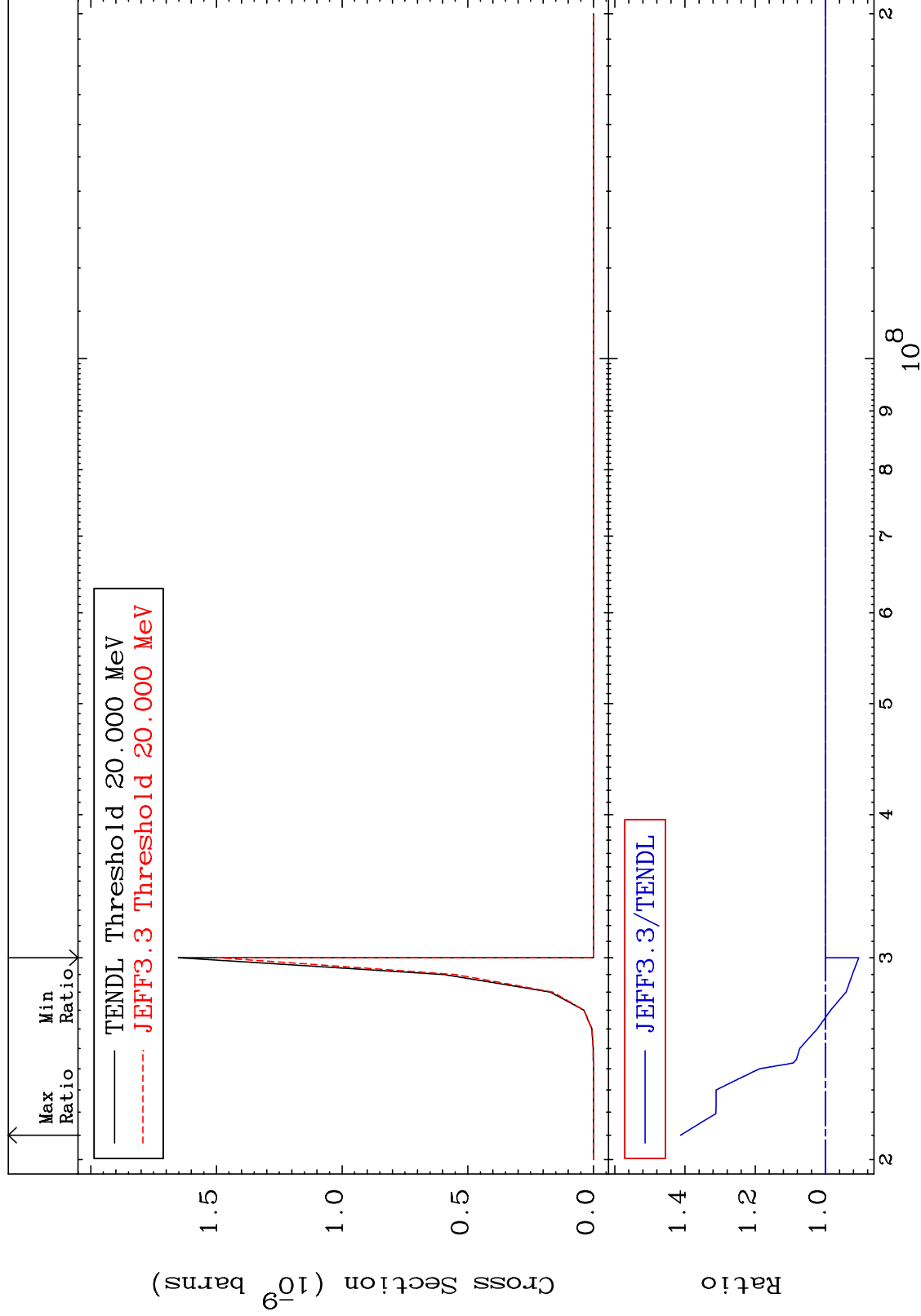


MAT 8031

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

80-Hg-198

Radionuclide Production Cross Section -9.496 To 41.24 %



113

Incident Energy (eV)

80-Hg-198