

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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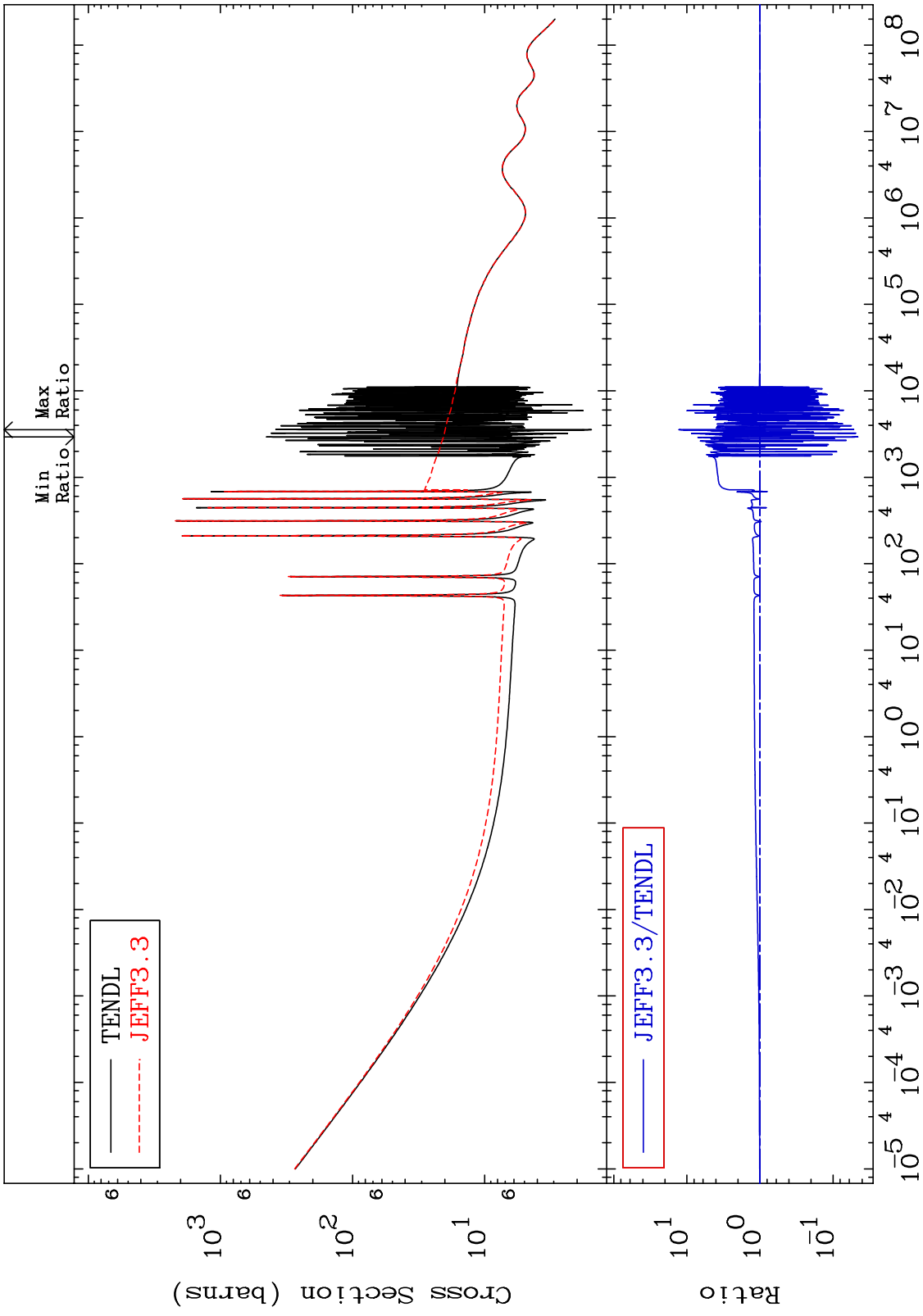
U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

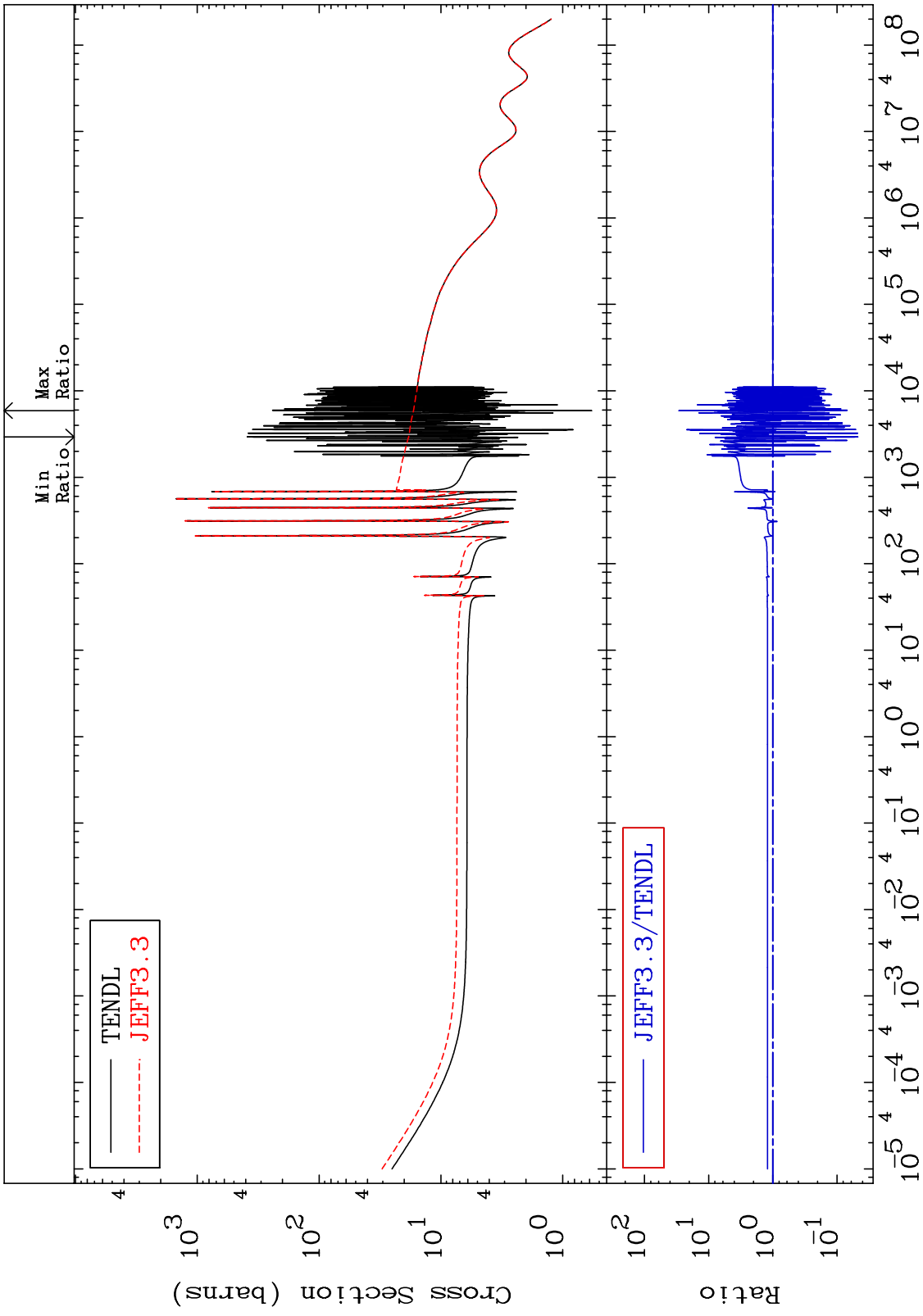
Press Mouse Button to Start

MAT 8040 80-Hg-201 Total Cross Section -95.43 To 1181. %

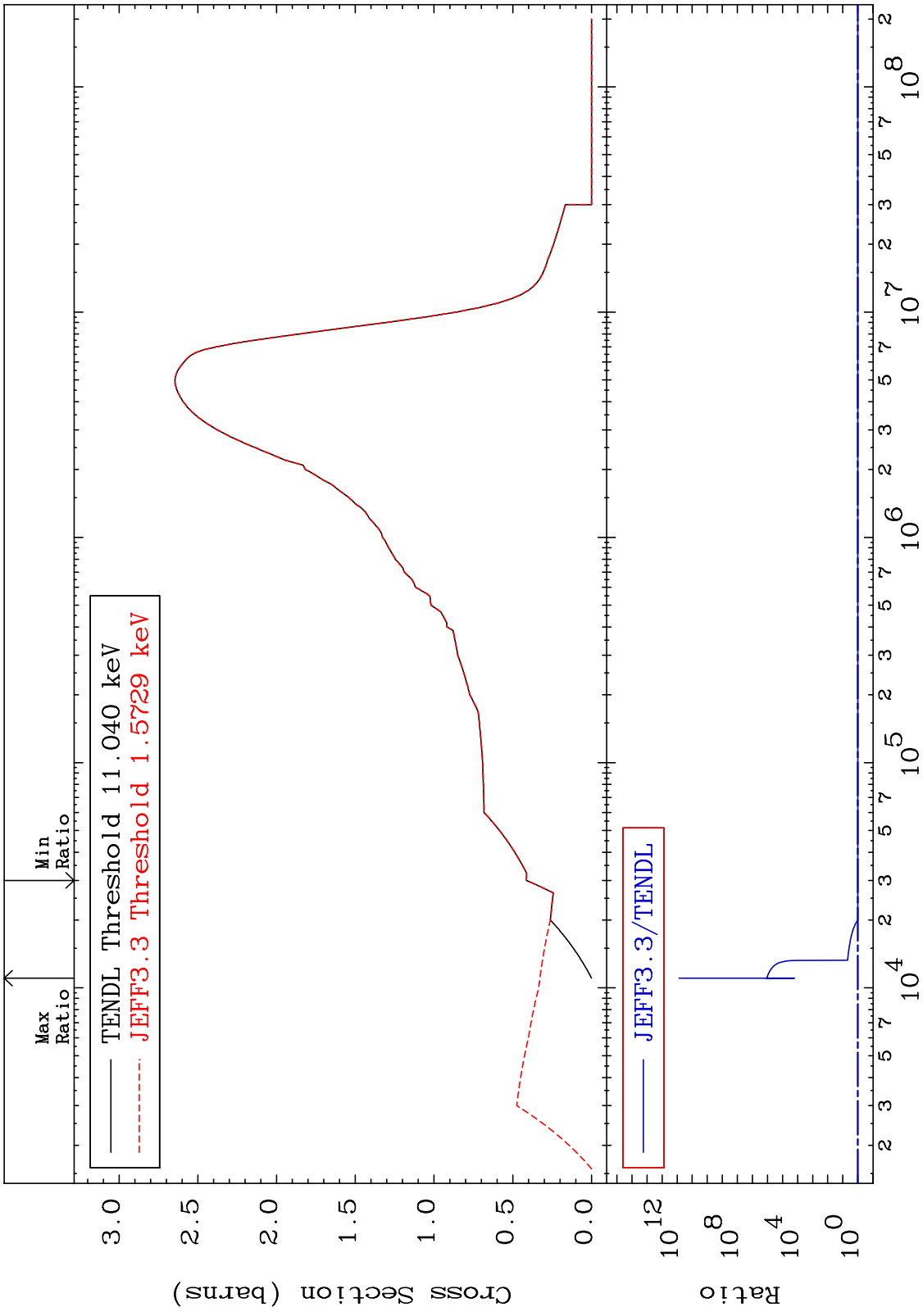


Incident Energy (eV) 80-Hg-201

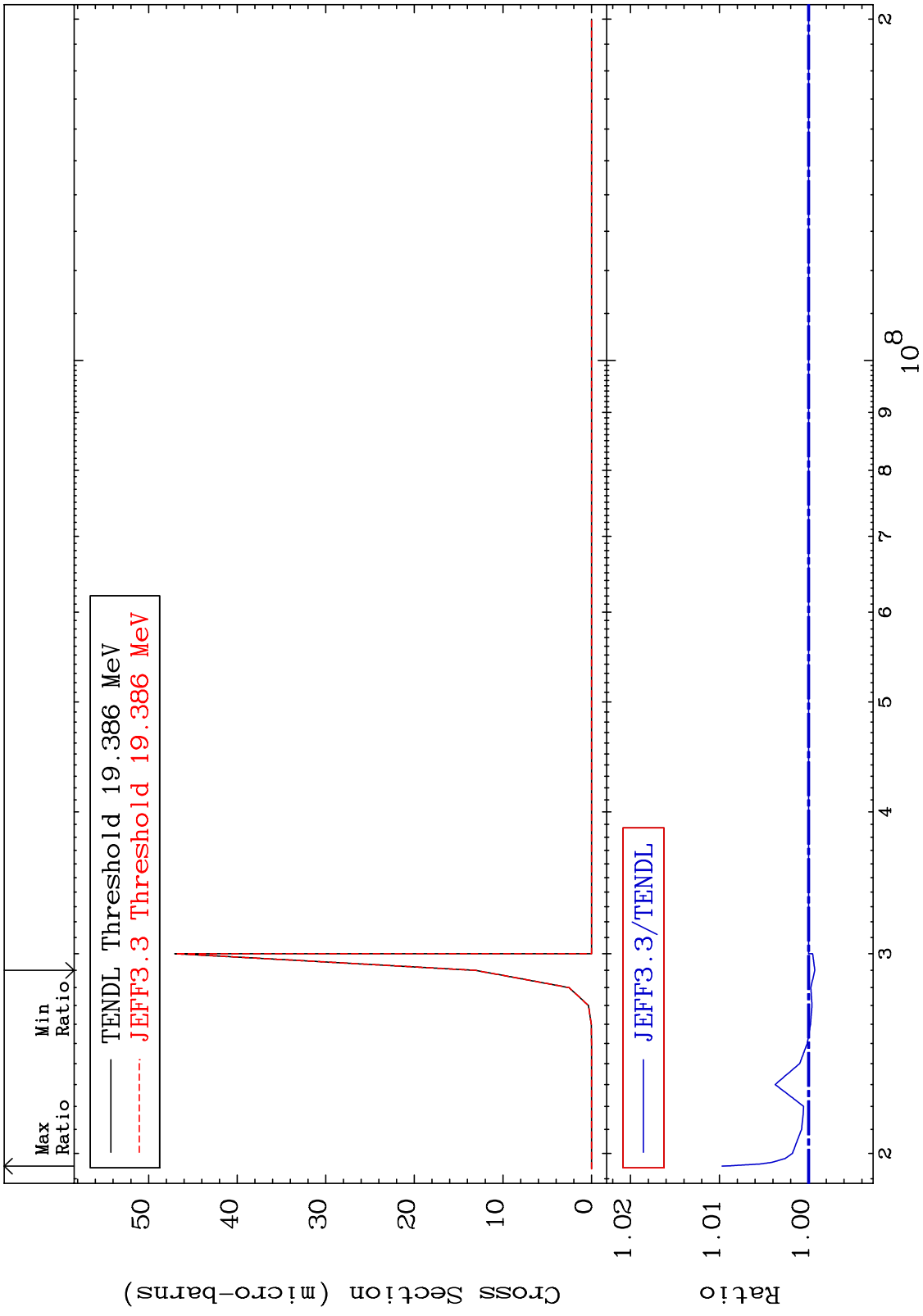
MAT 8040 Elastic Cross Section 80-Hg-201 -95.27 To 2795. %



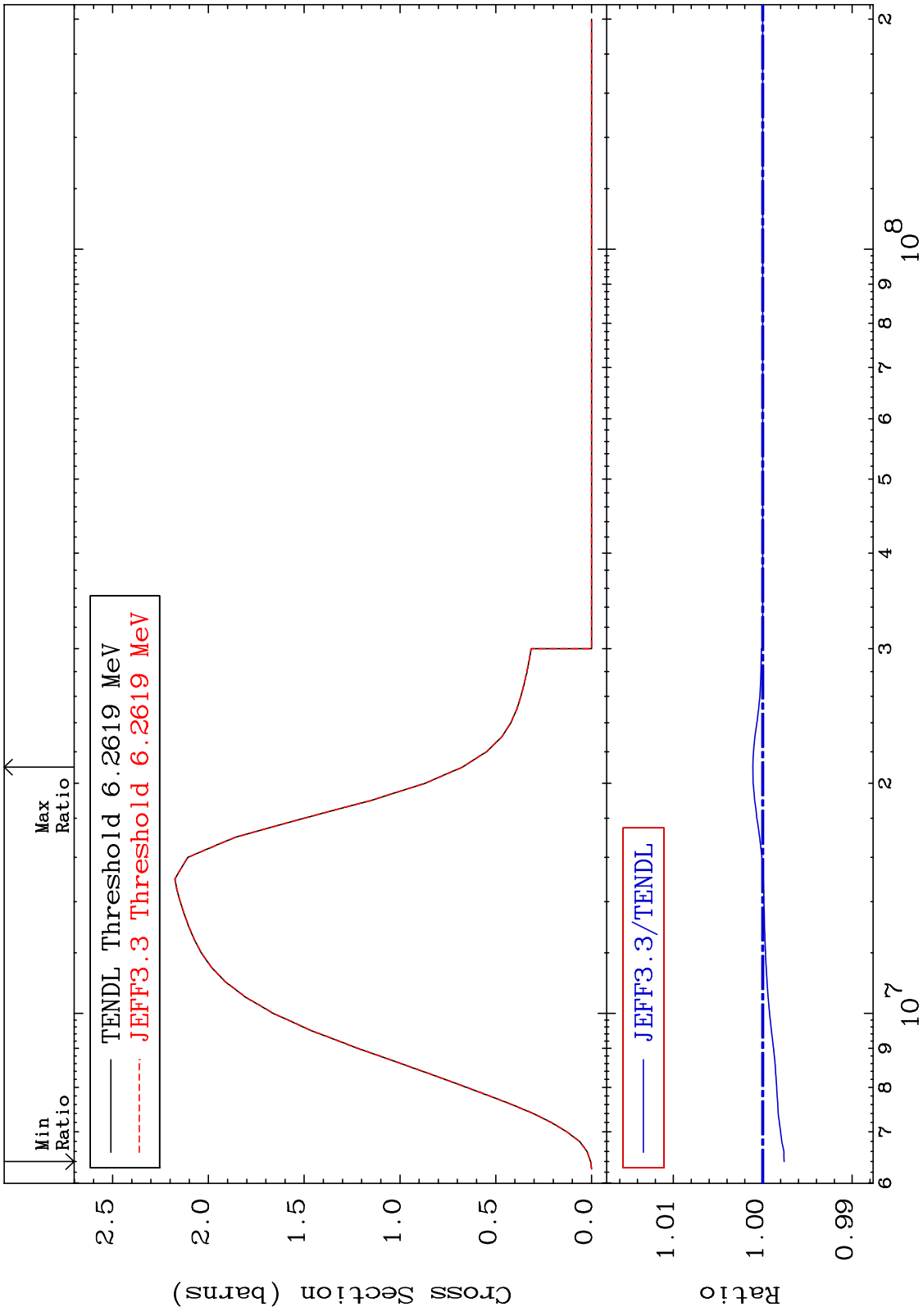
80-Hg-201



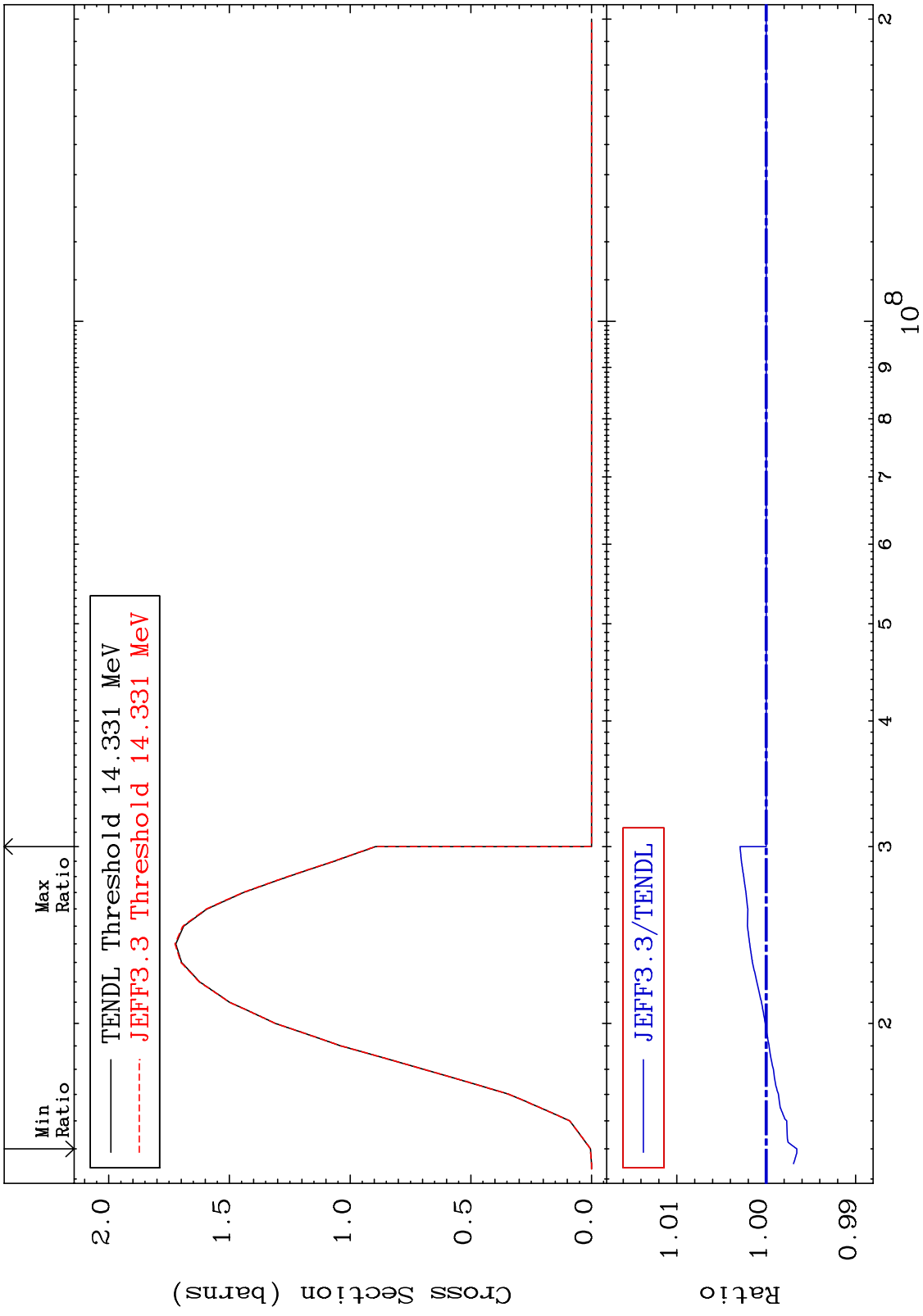
MAT 8040 (n,2n) d 80-Hg-201  
 Cross Section -0.070 To 0.971 %



MAT 8040 80-Hg-201  
-0.239 To 0.112 %  
(n,2n)  
Cross Section



MAT 8040 80-Hg-201  
-0.343 To 0.293 %  
 (n,3n)  
 Cross Section



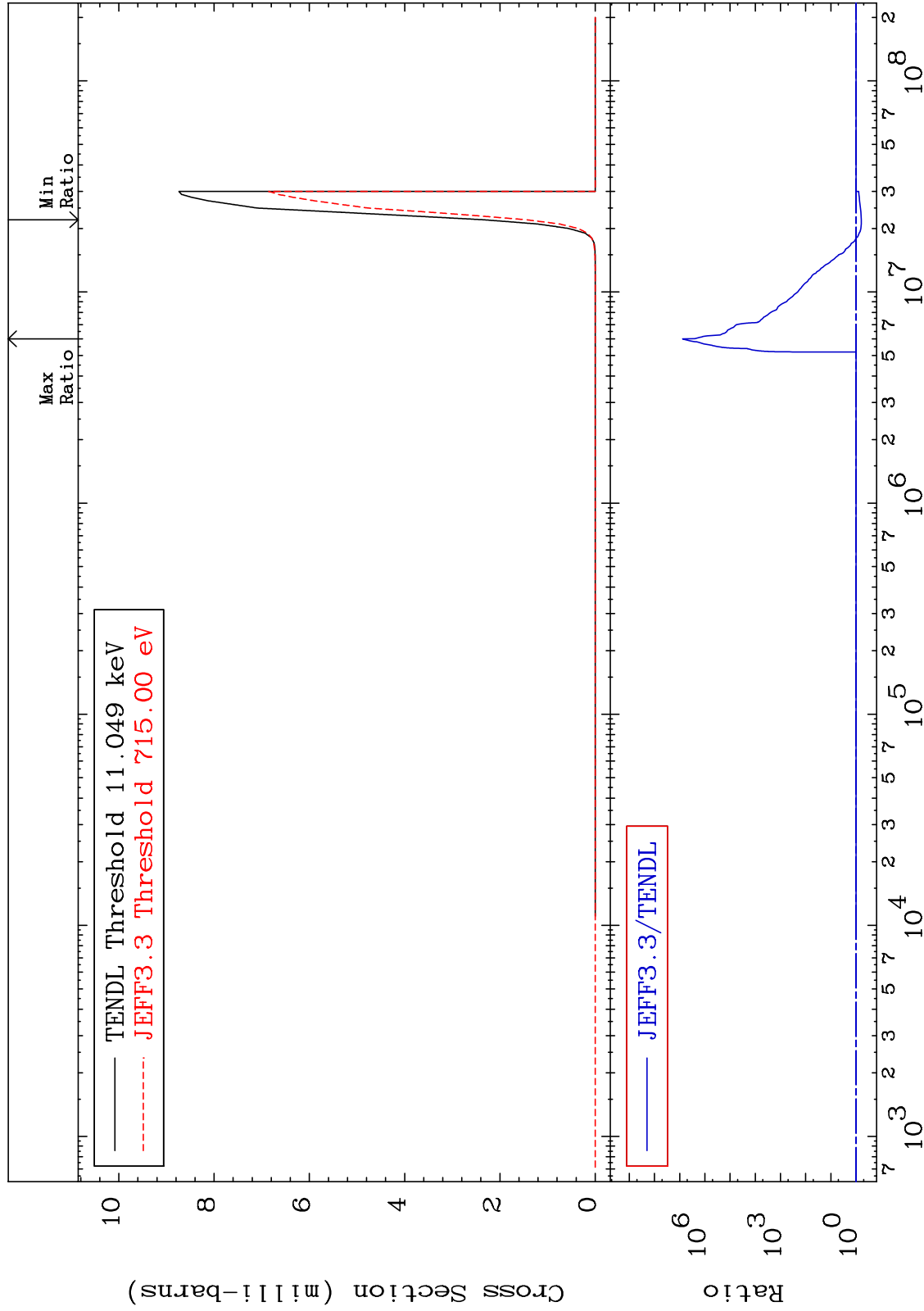
MAT 8040

$(n, n') \alpha$

80-Hg-201

Cross Section

-38.28 To 9999. %



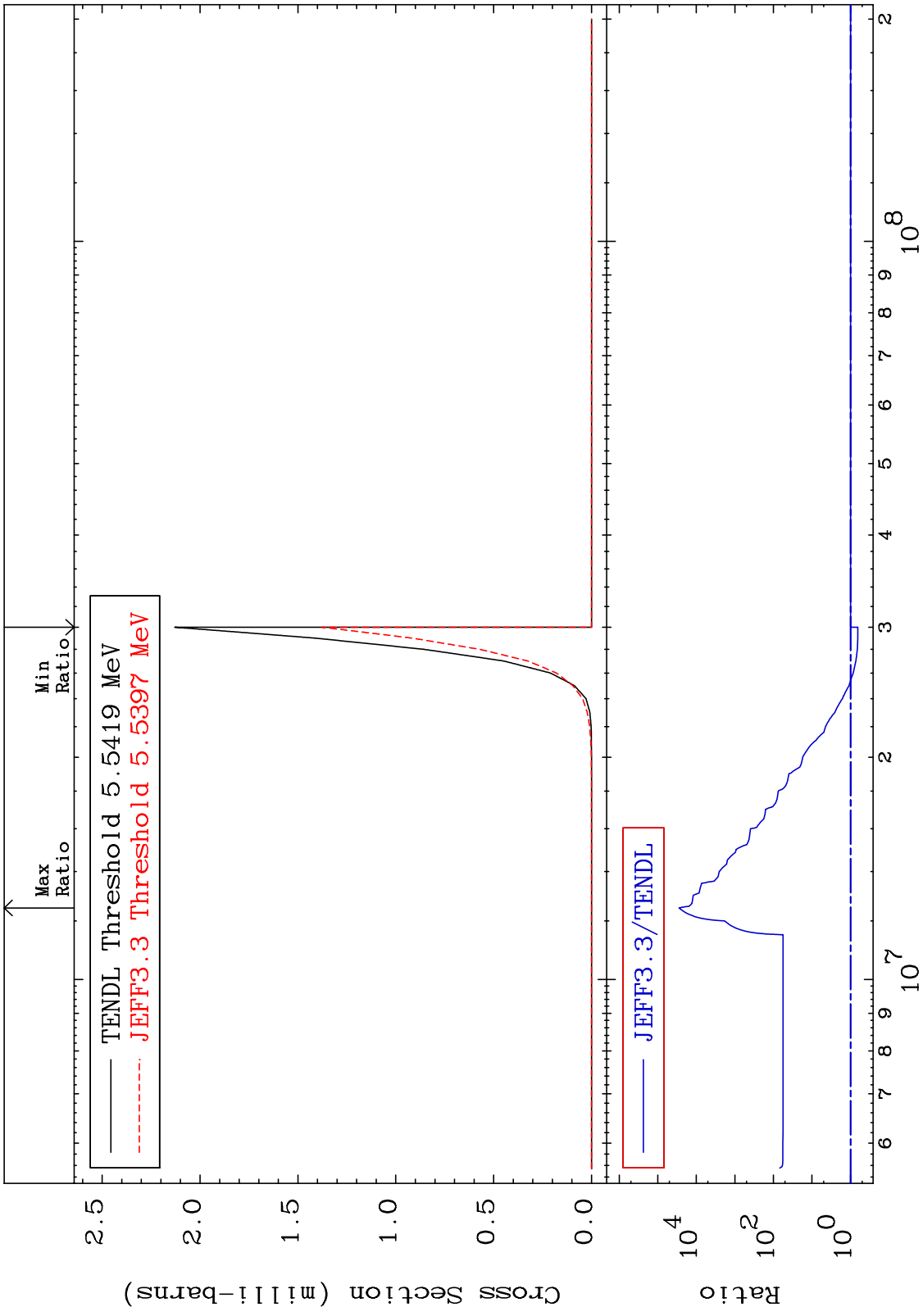
7

Incident Energy (eV)

80-Hg-201

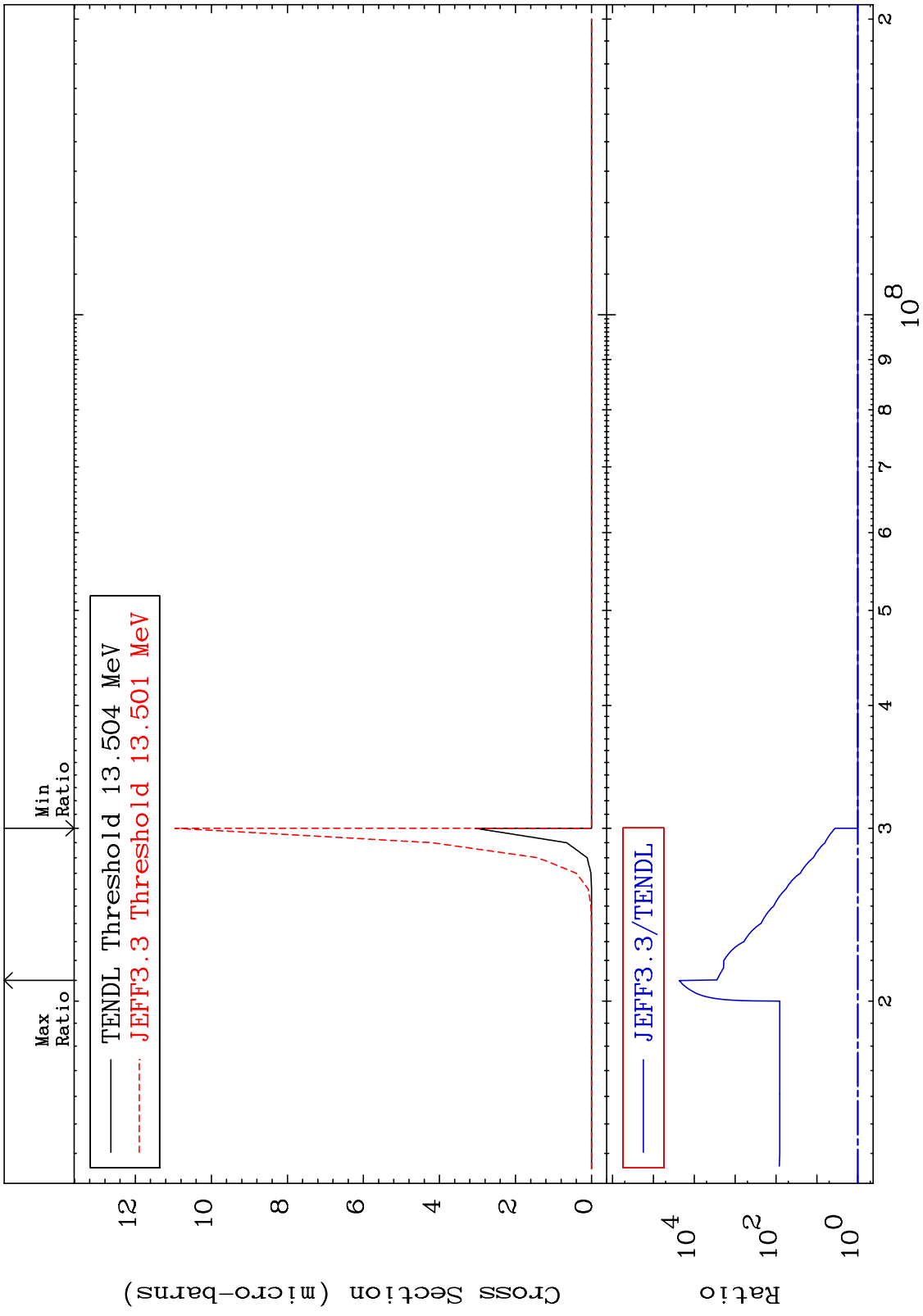


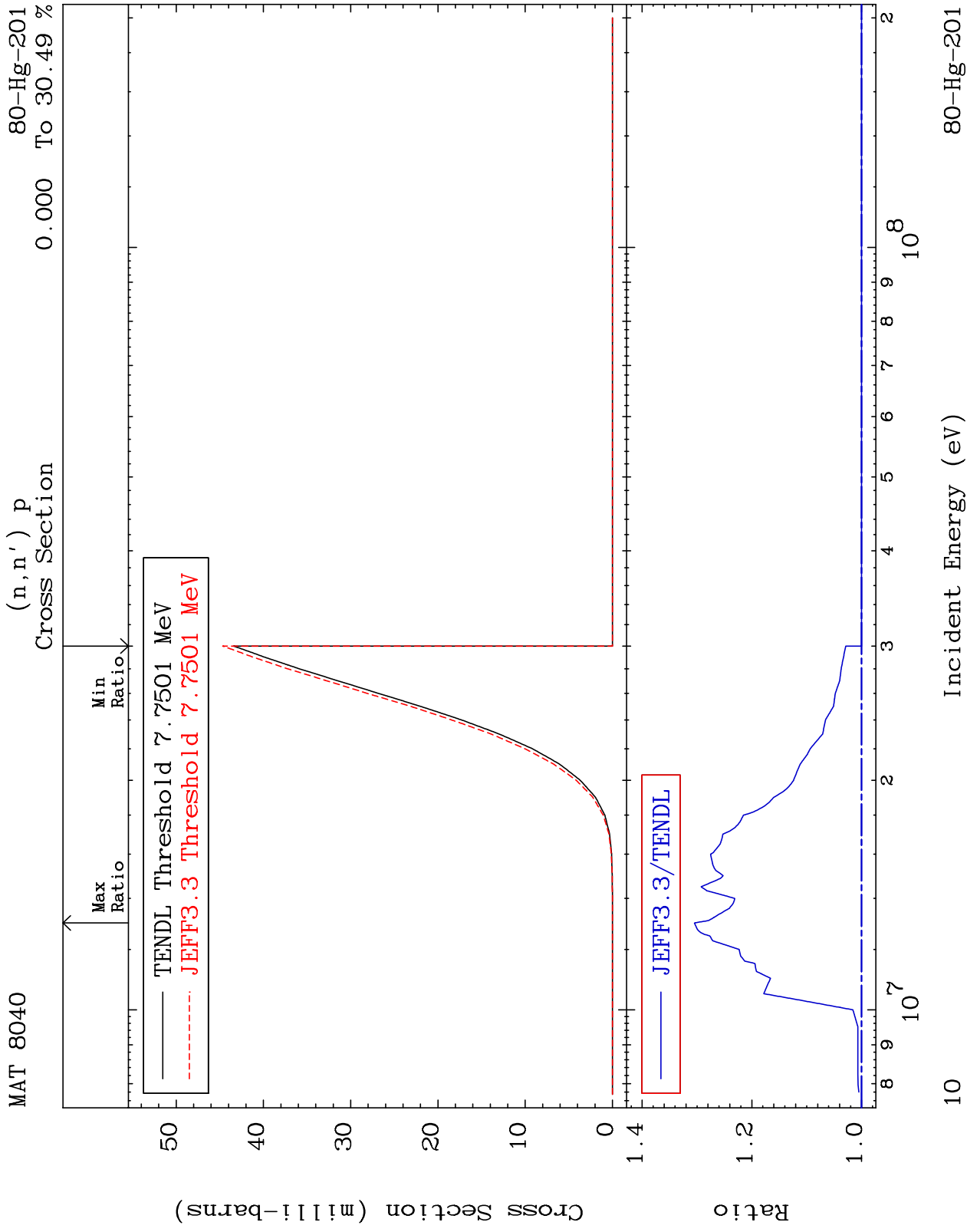
MAT 8040  $(n, 2n) \alpha$  80-Hg-201  
 Cross Section -35.32 To 9999. %



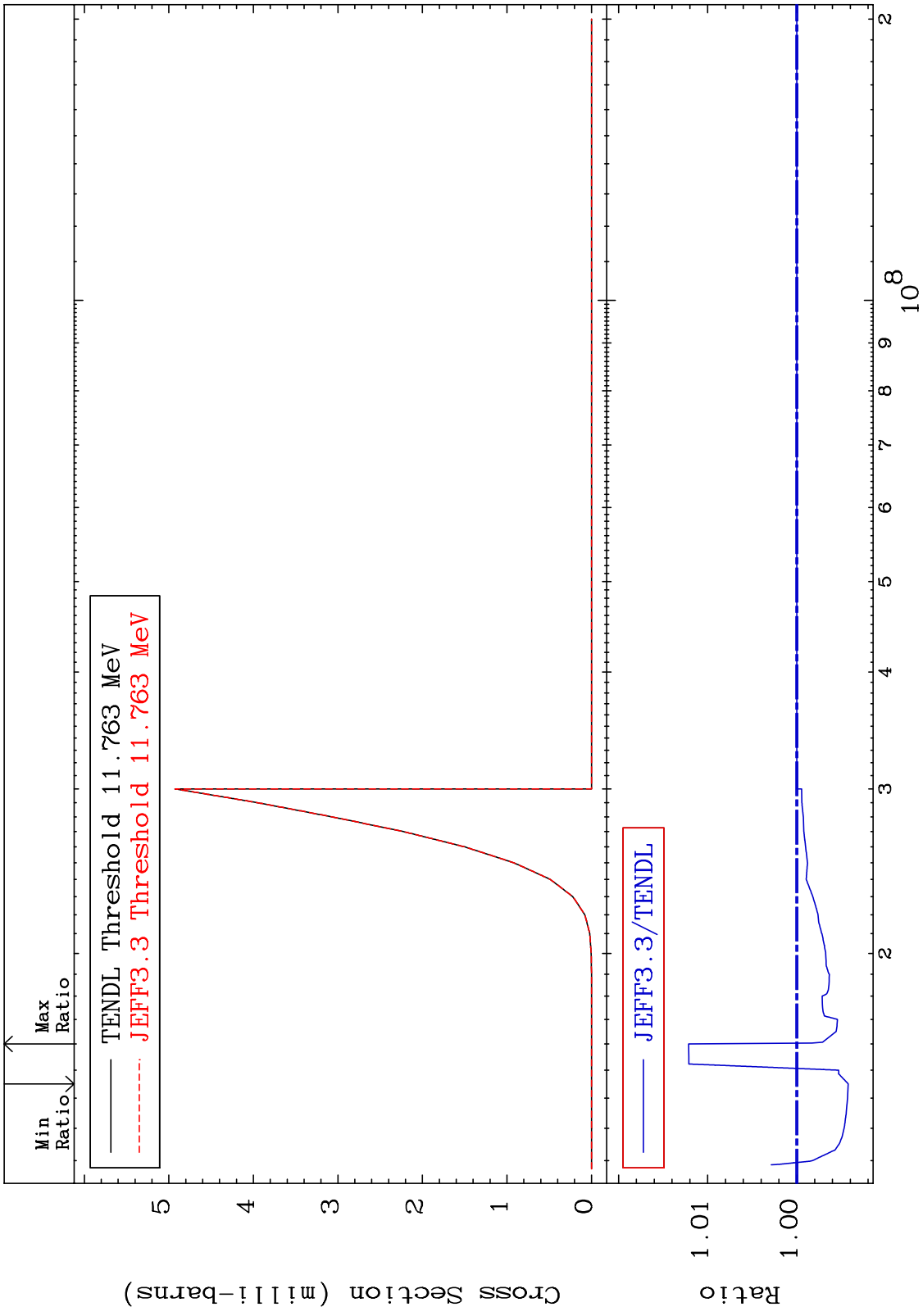
8 Incident Energy (eV) 80-Hg-201

MAT 8040  $(n, 3n) \alpha$  80-Hg-201  
 Cross Section 0.000 To 9999. %



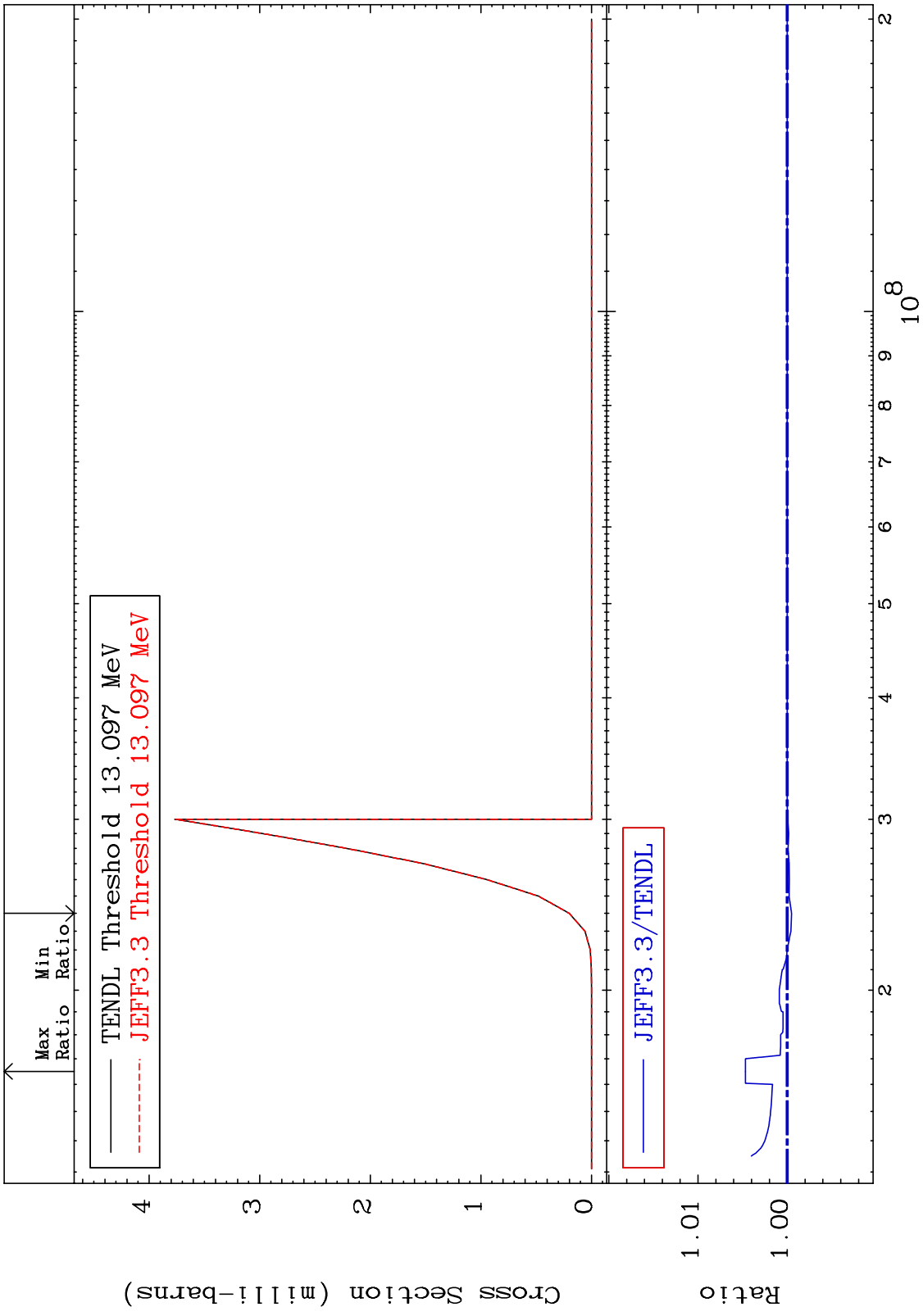


MAT 8040 (n, n') d 80-Hg-201  
 Cross Section -0.577 To 1.213 %

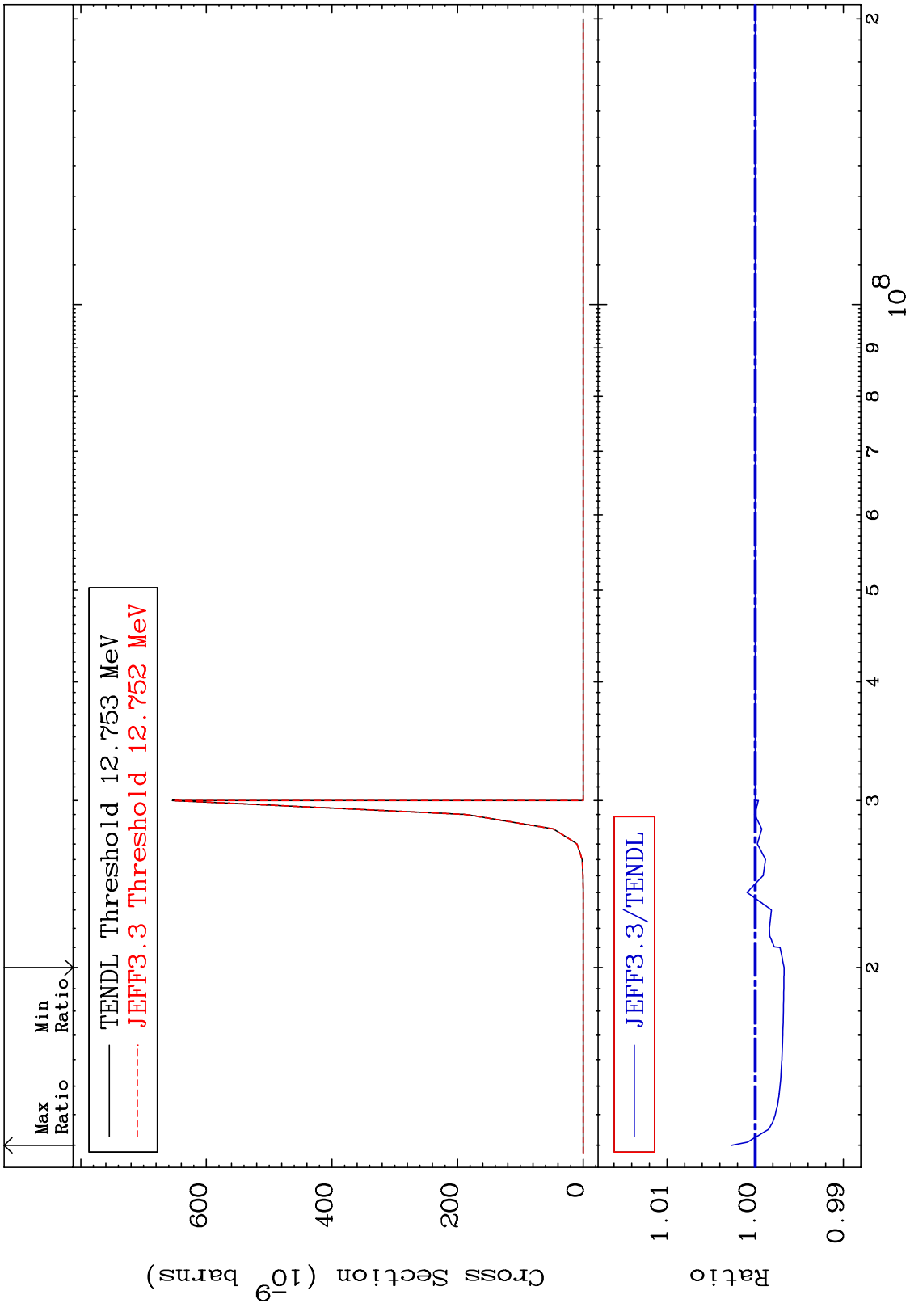


80-Hg-201

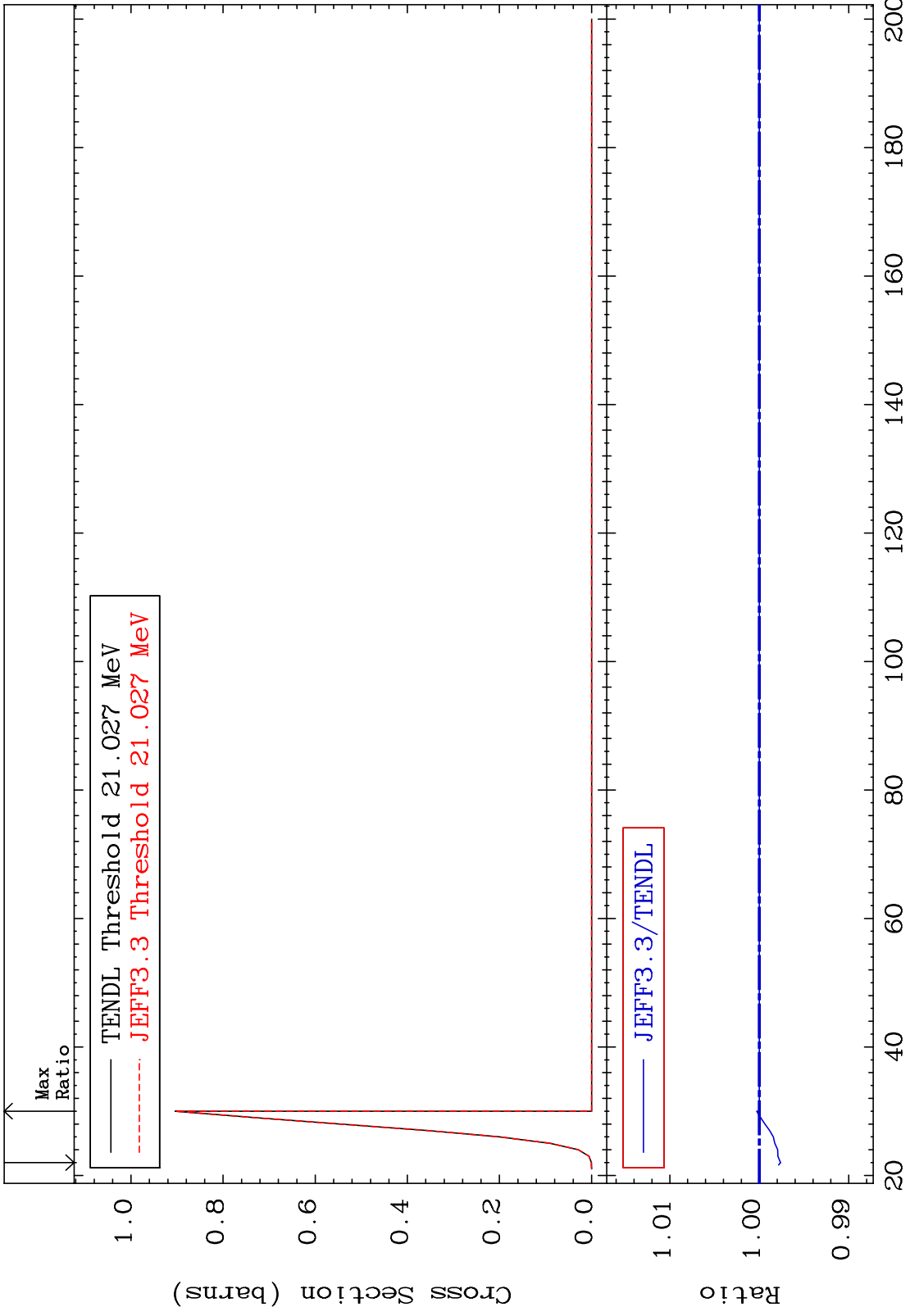
MAT 8040  $(n, n')$  t 80-Hg-201  
 Cross Section -0.049 To 0.470 %



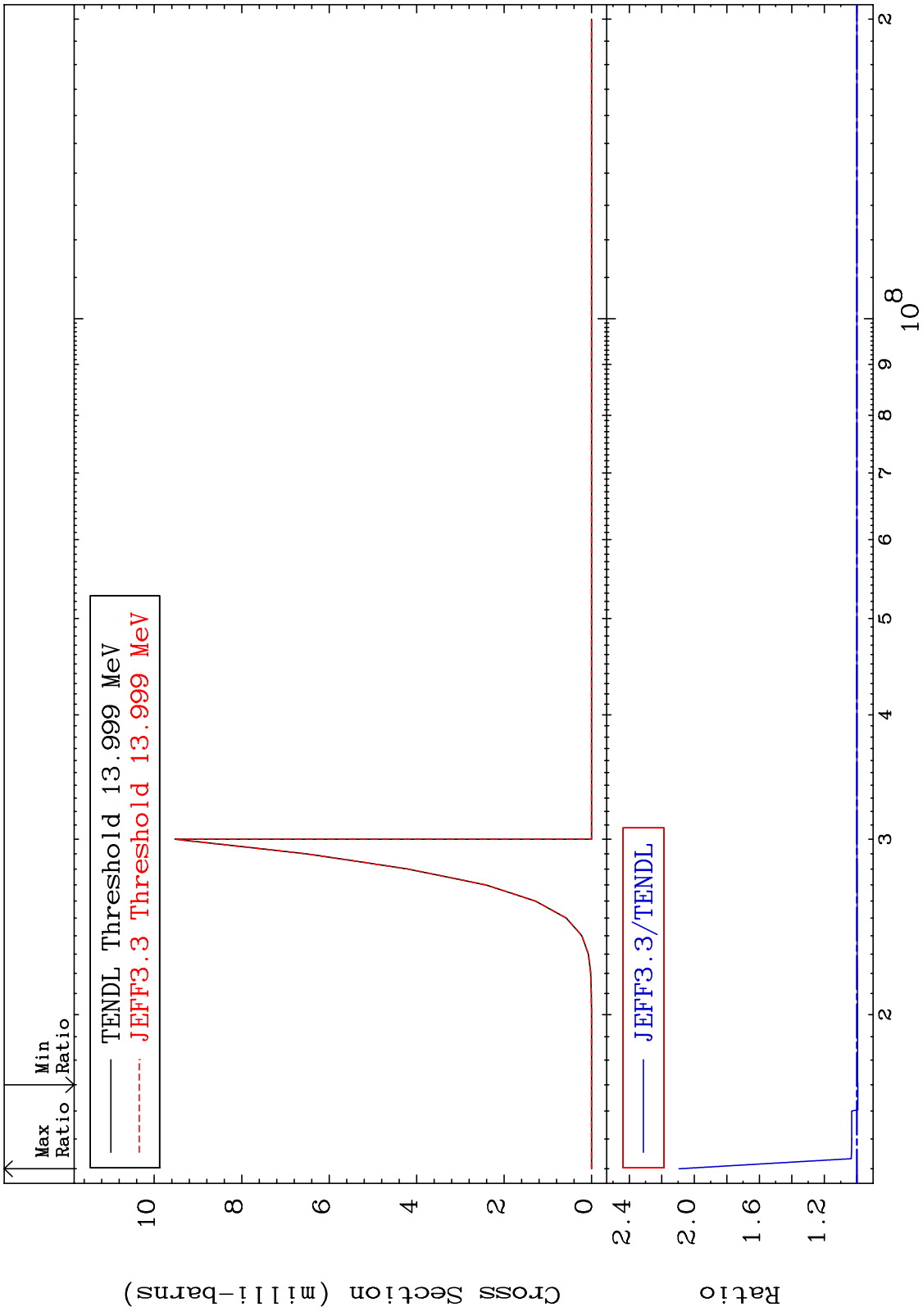
MAT 8040 (n, n') He-3 80-Hg-201  
 Cross Section -0.328 To 0.272 %



MAT 8040 (n,4n) Cross Section 80-Hg-201 -0.237 To 0.030 %



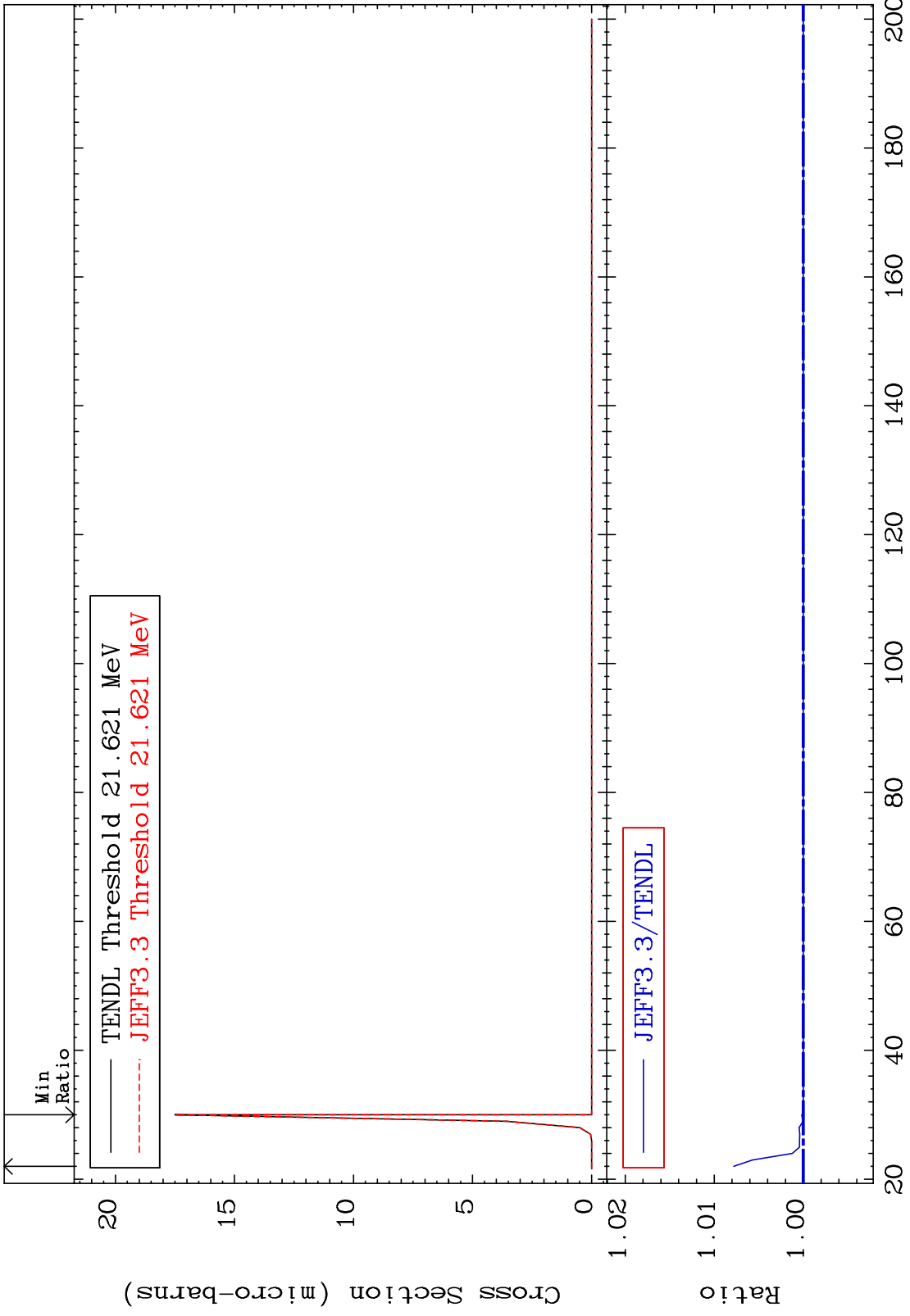
MAT 8040 (n,2n) p 80-Hg-201  
 Cross Section -0.583 To 109.4 %



15 80-Hg-201

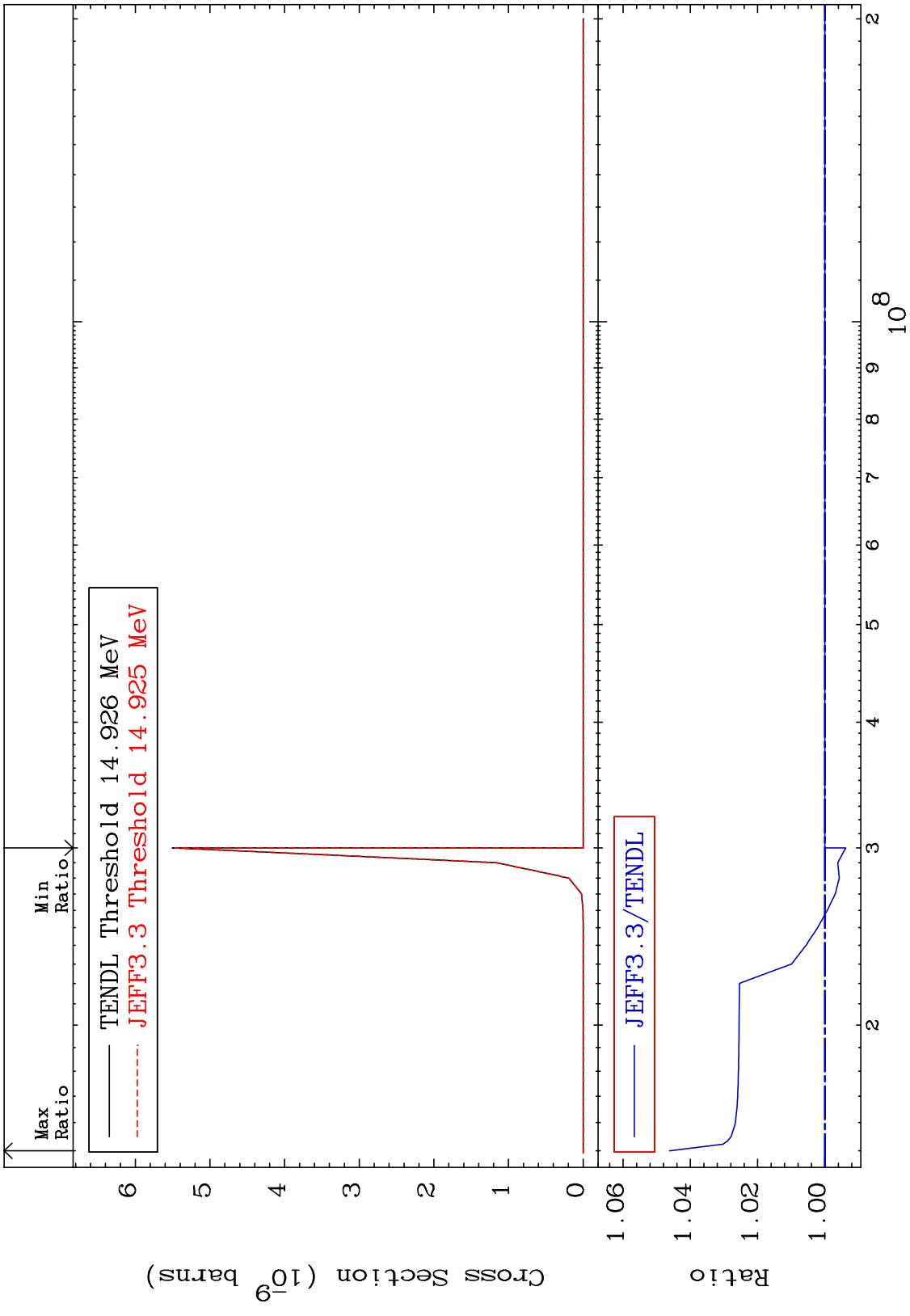


MAT 8040 (n,3n) p 80-Hg-201  
Cross Section 0.000 To 0.781 %



16 80-Hg-201

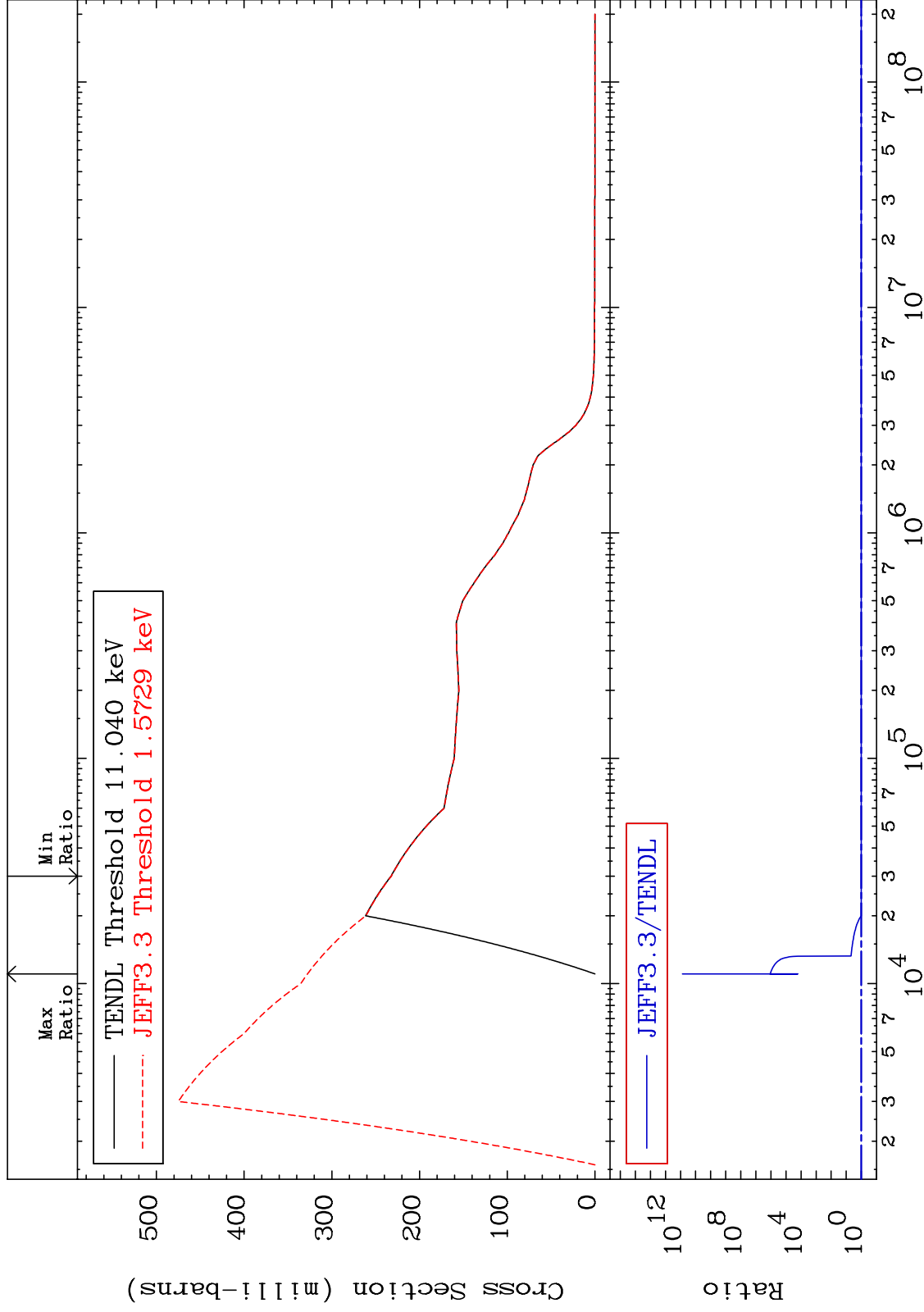
MAT 8040 (n,2n) p 80-Hg-201  
 Cross Section -0.621 To 4.623 %



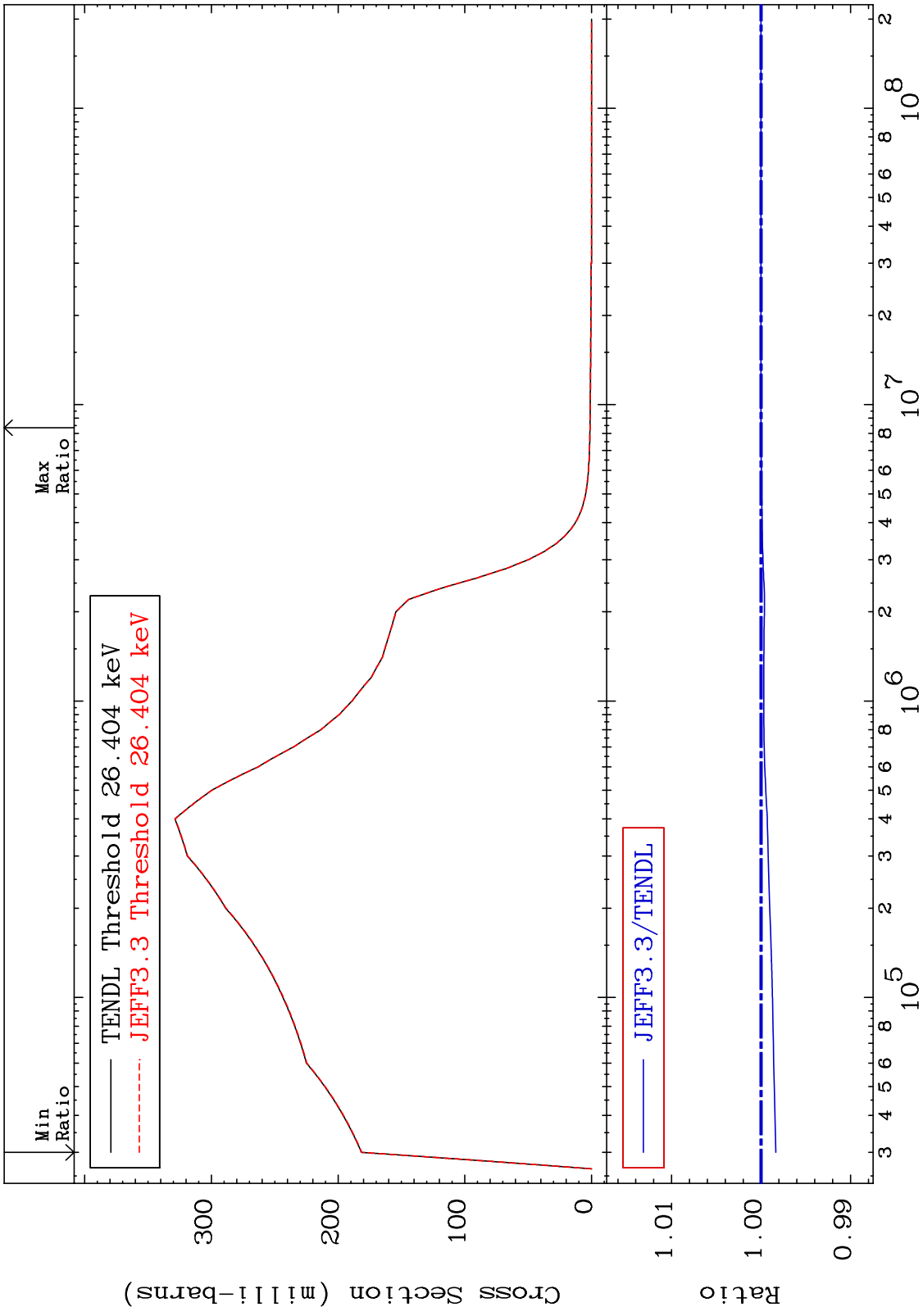
MAT 8040

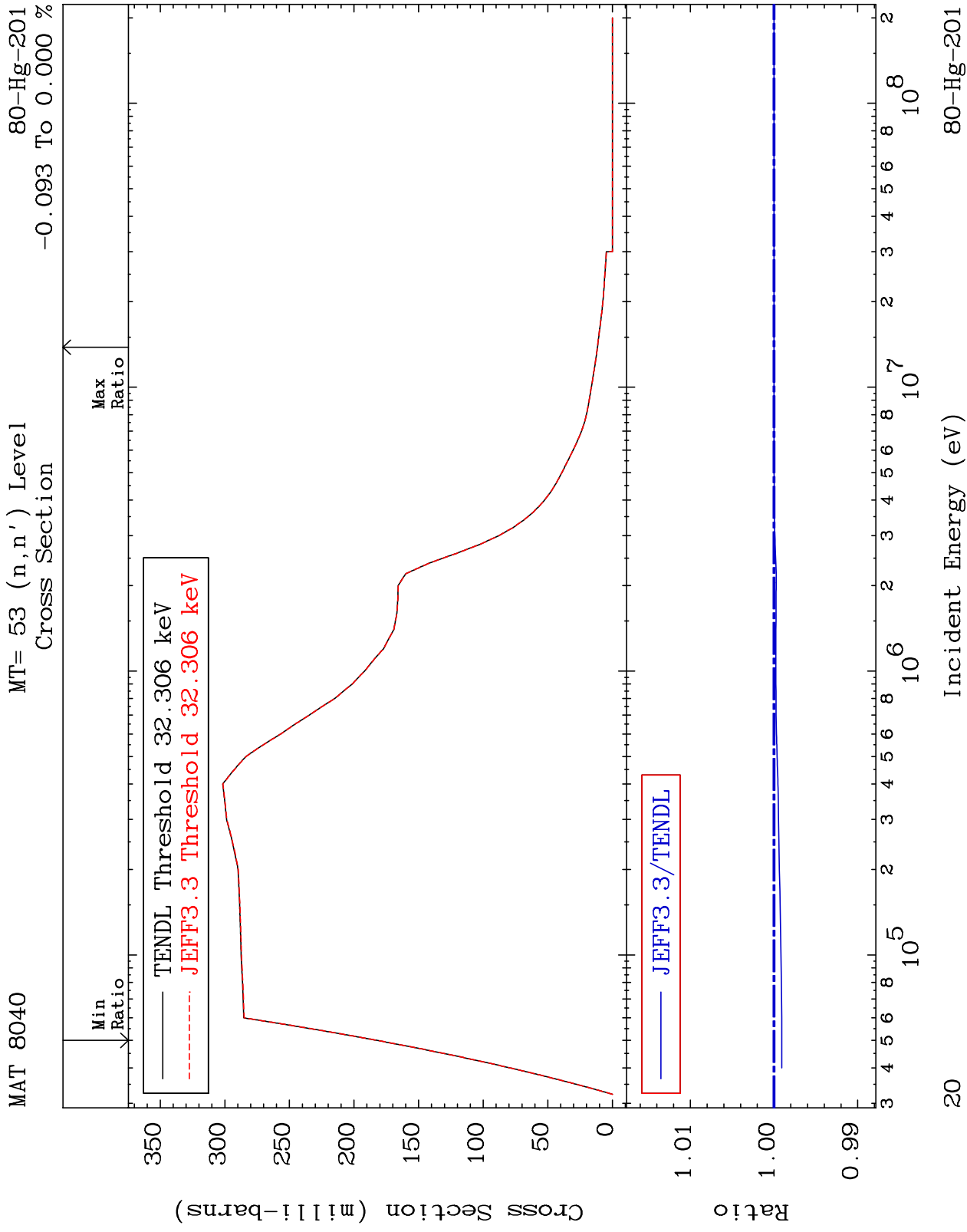
MT= 51 (n,n') Level  
Cross Section

80-Hg-201  
-0.133 To 9999. %

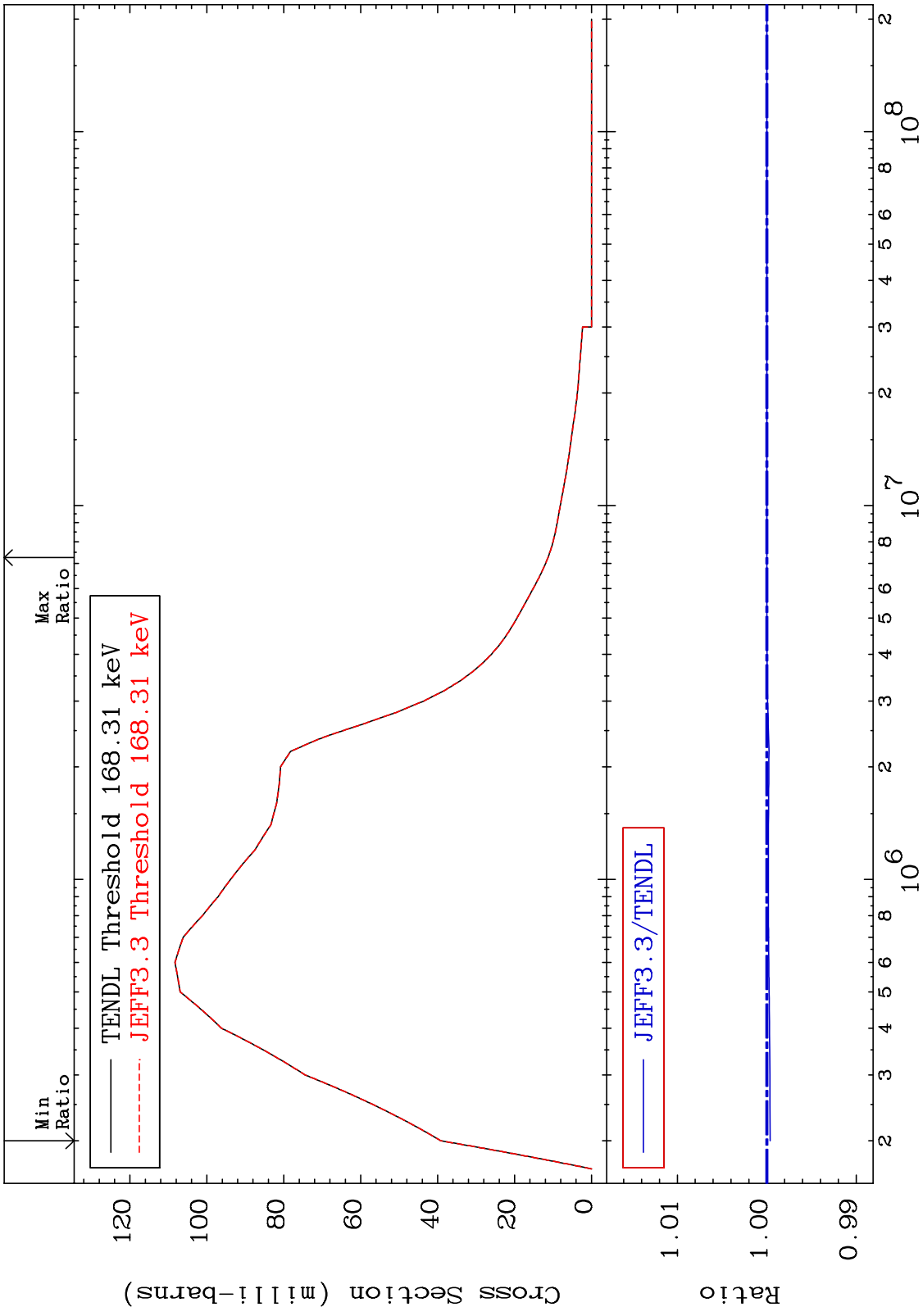


MAT 8040 MT= 52 (n,n') Level Cross Section -0.165 To 0.000 % 80-Hg-201

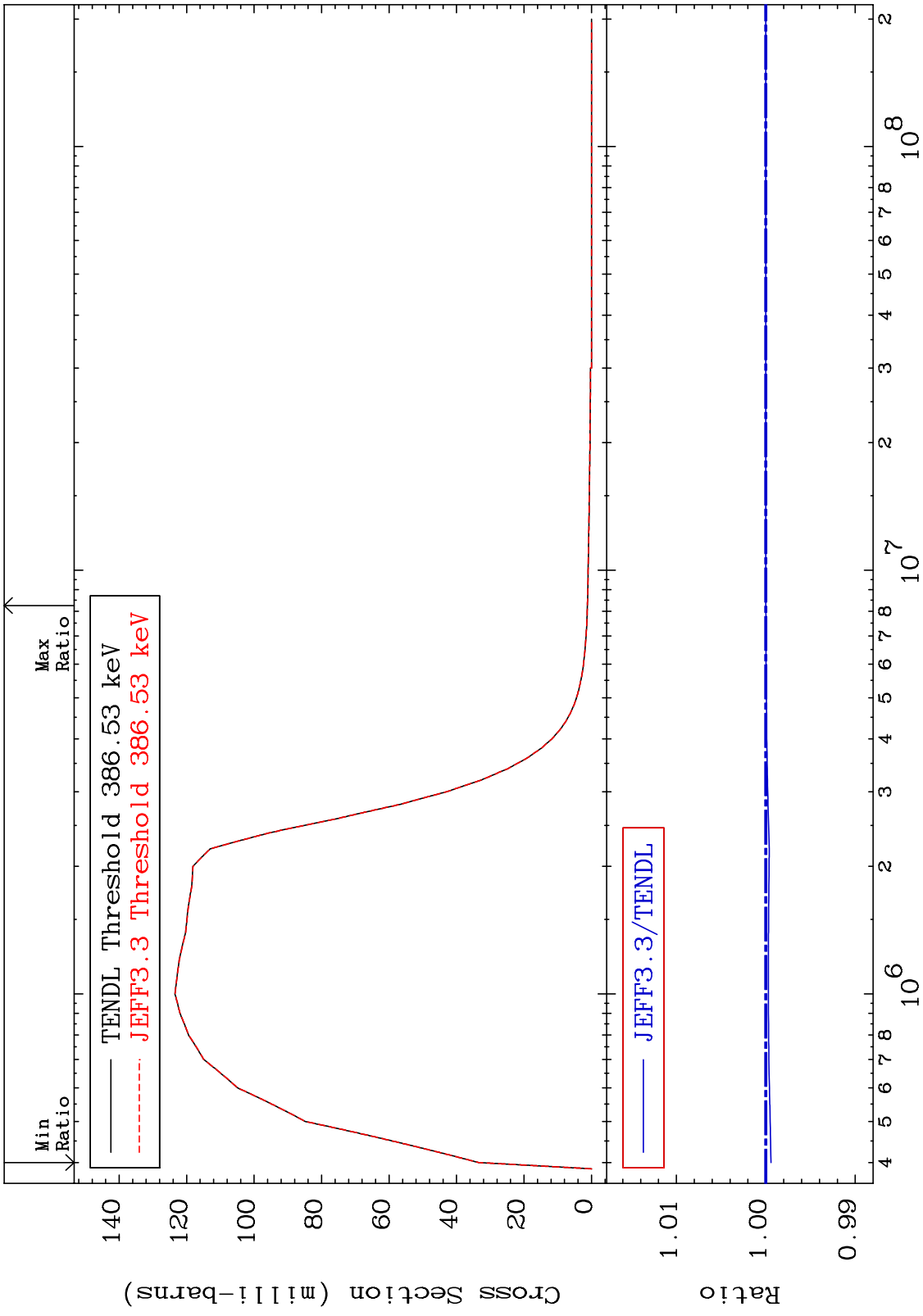


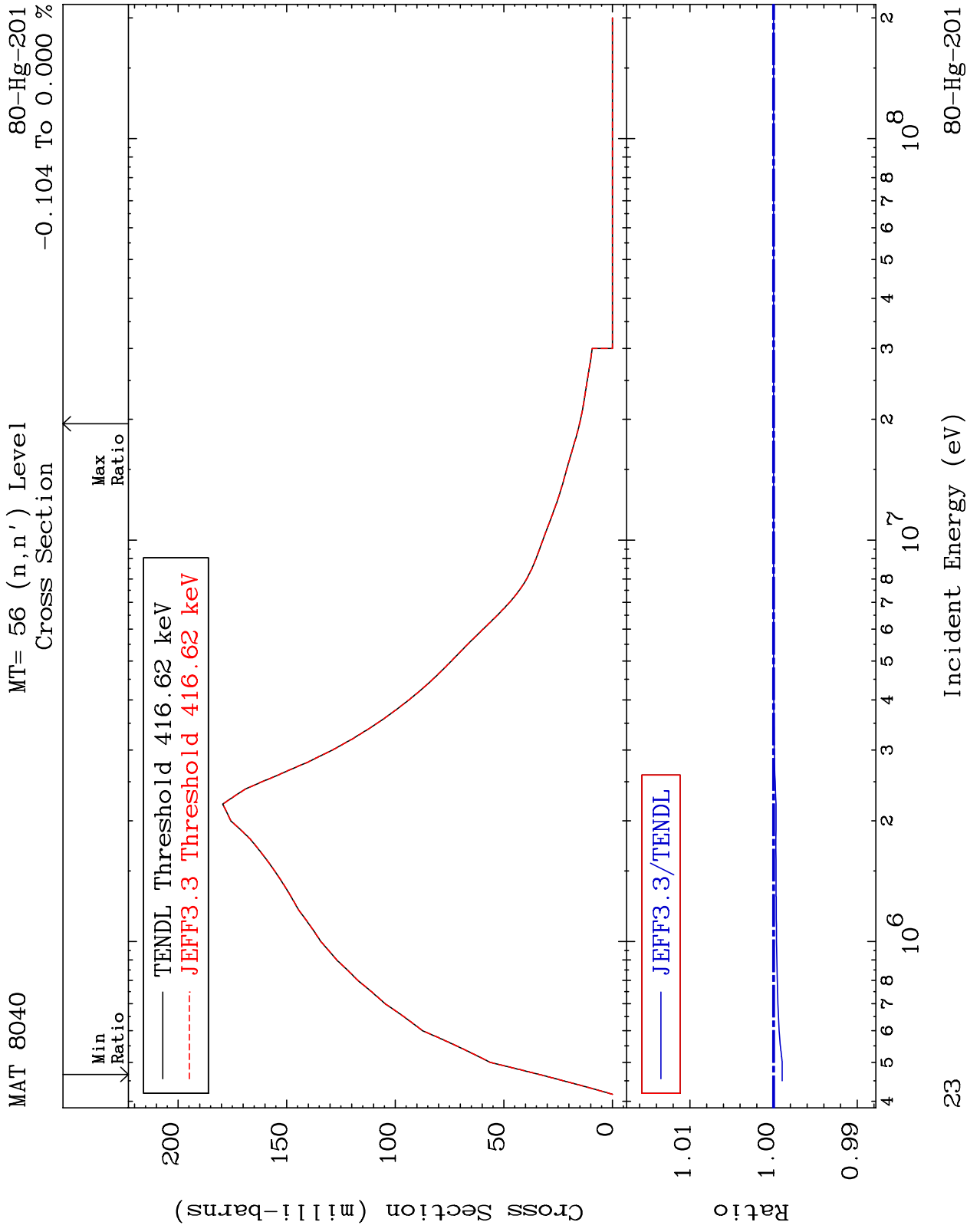


MAT 8040 MT= 54 (n,n') Level Cross Section -0.038 To 0.000 % 80-Hg-201

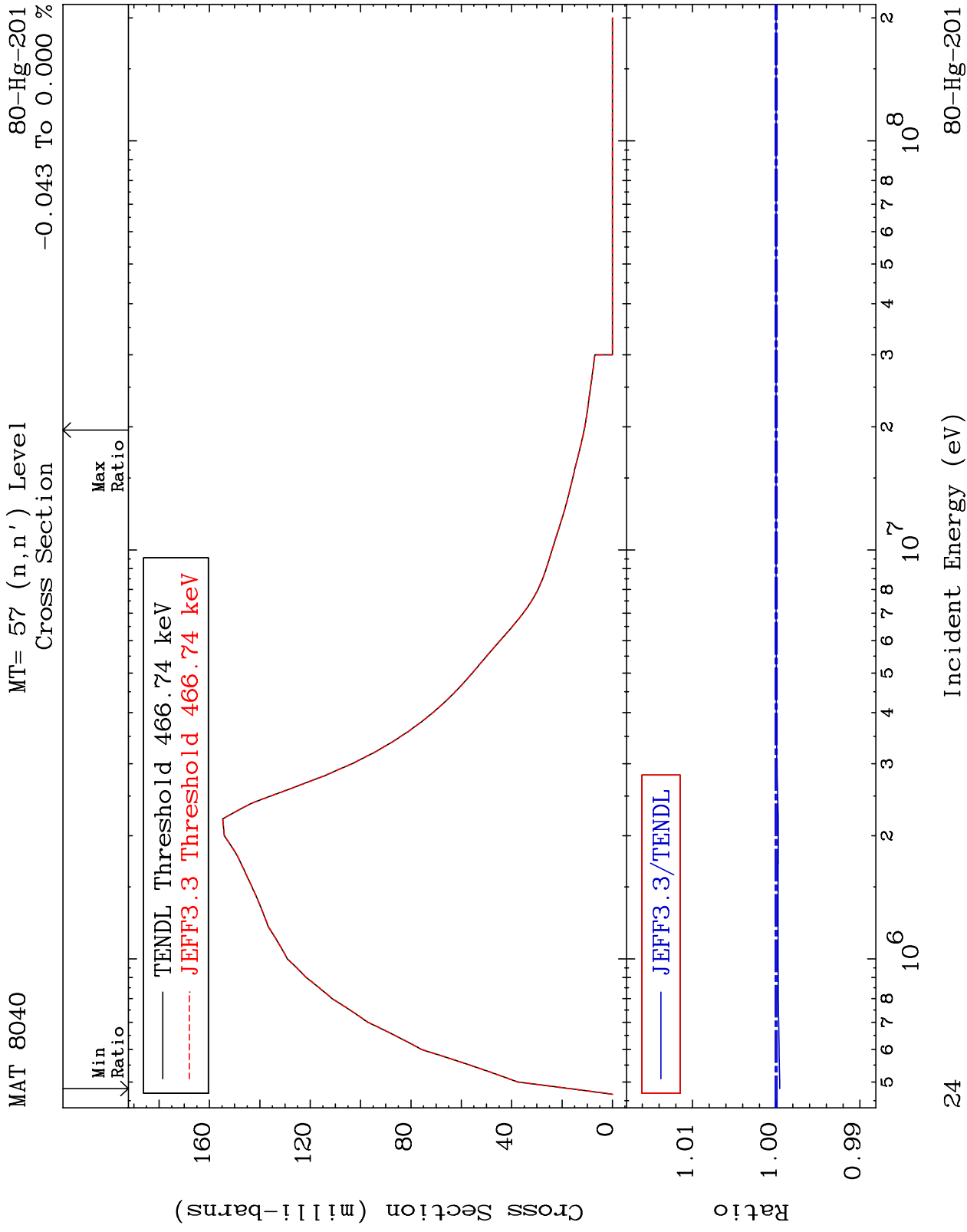


MAT 8040 MT= 55 (n,n') Level Cross Section -0.059 To 0.000 % 80-Hg-201

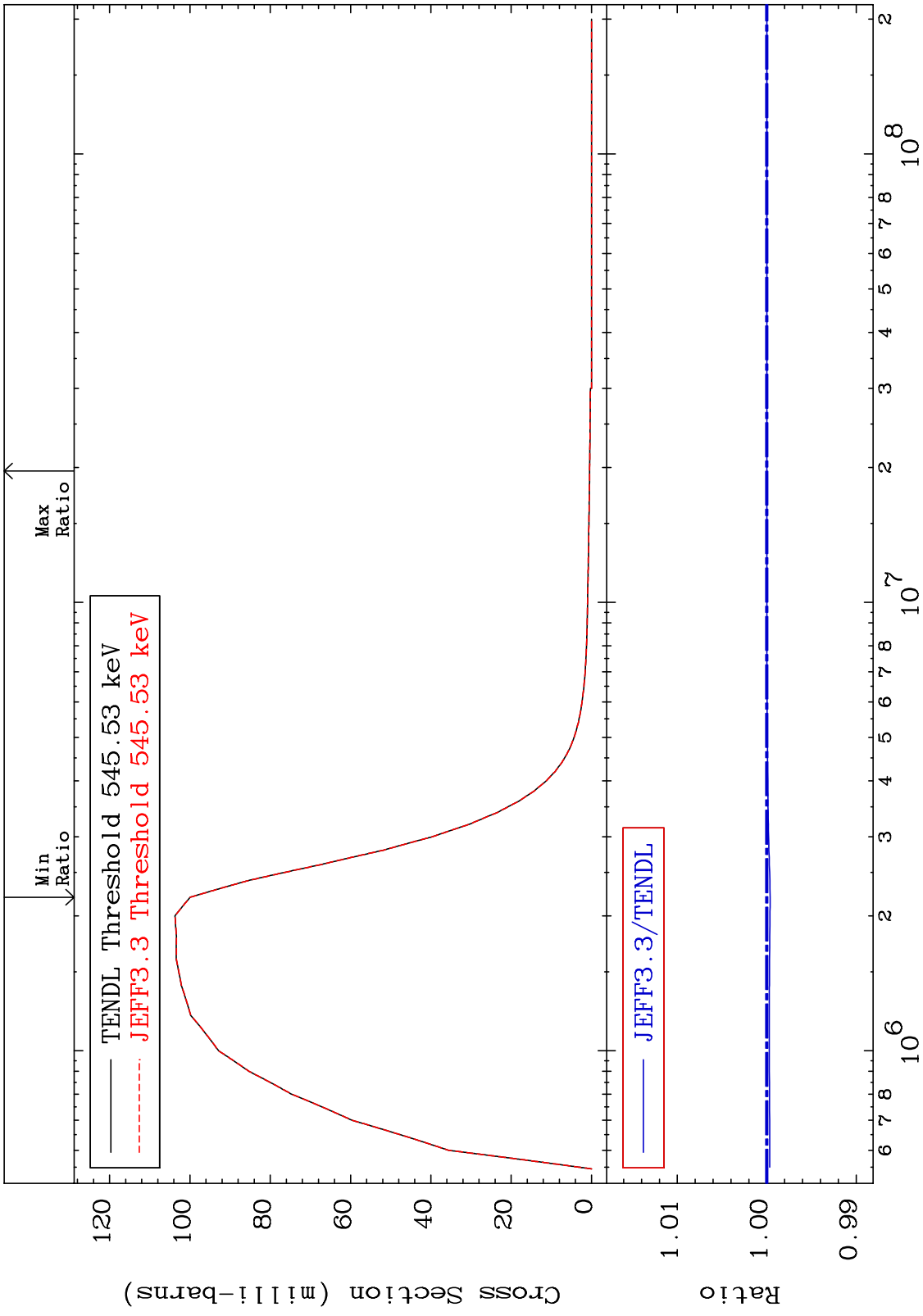




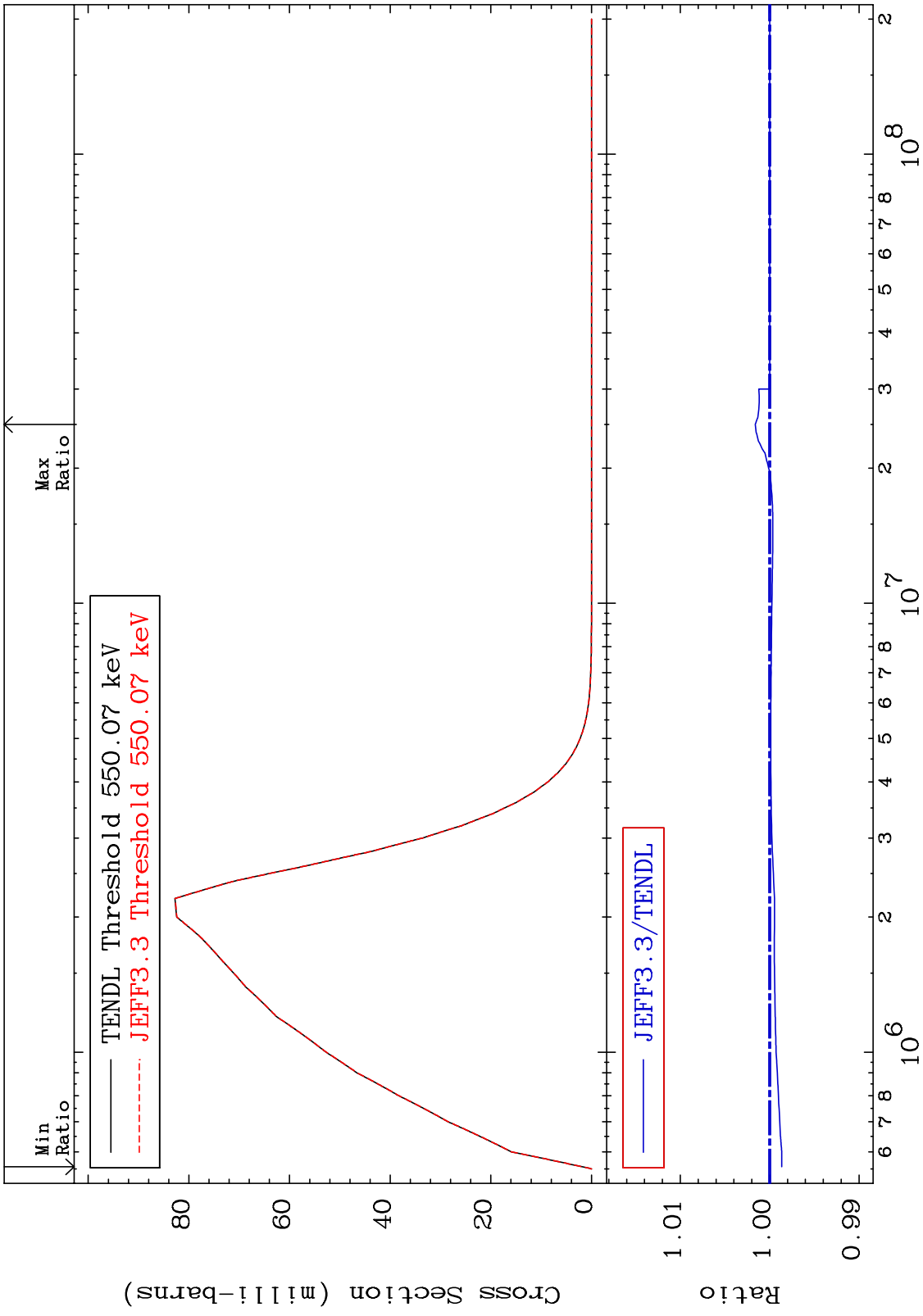




MAT 8040 MT= 58 (n,n') Level Cross Section -0.038 To 0.000 % 80-Hg-201

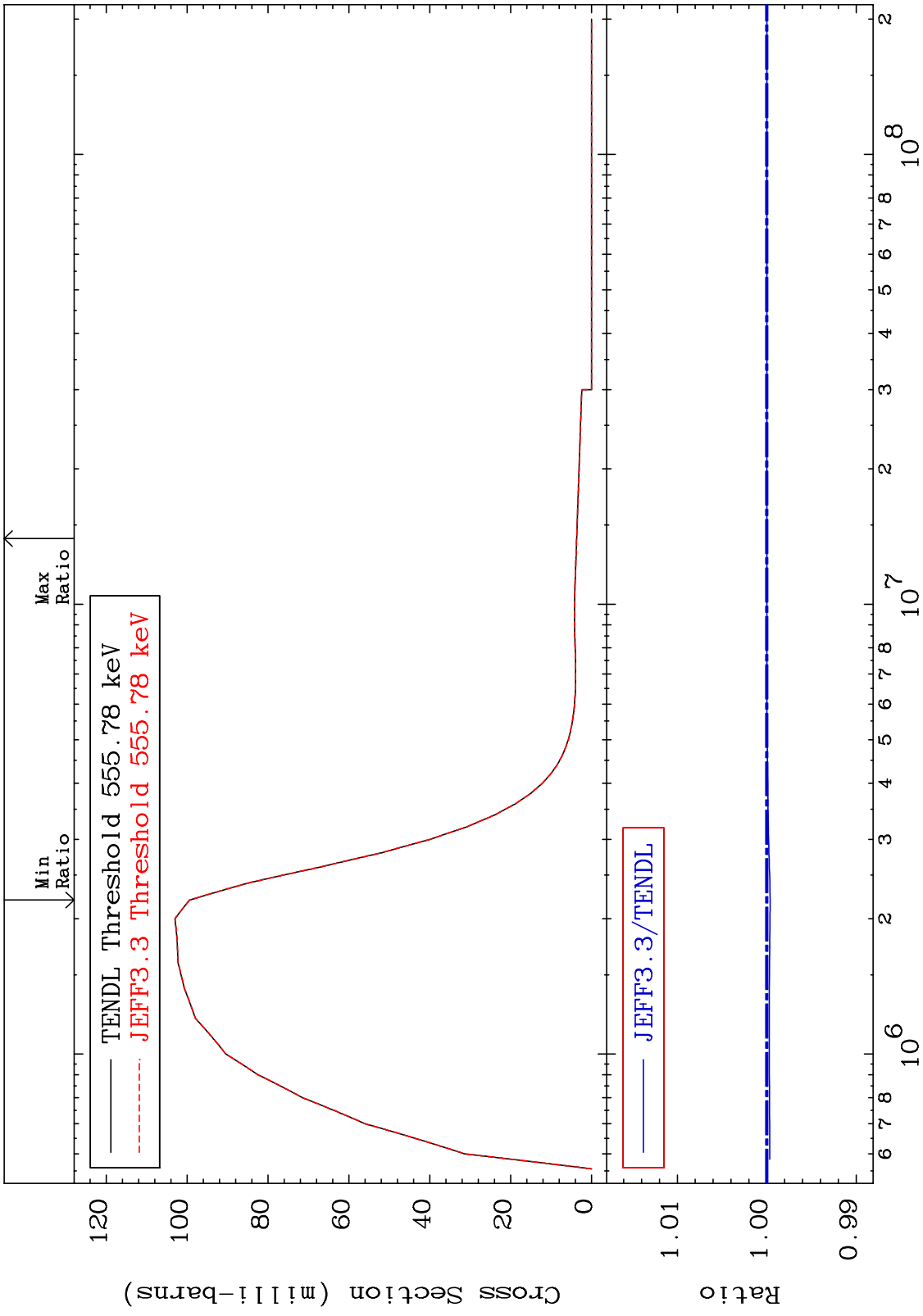


MAT 8040 MT= 59 (n,n') Level Cross Section 80-Hg-201 -0.134 To 0.162 %

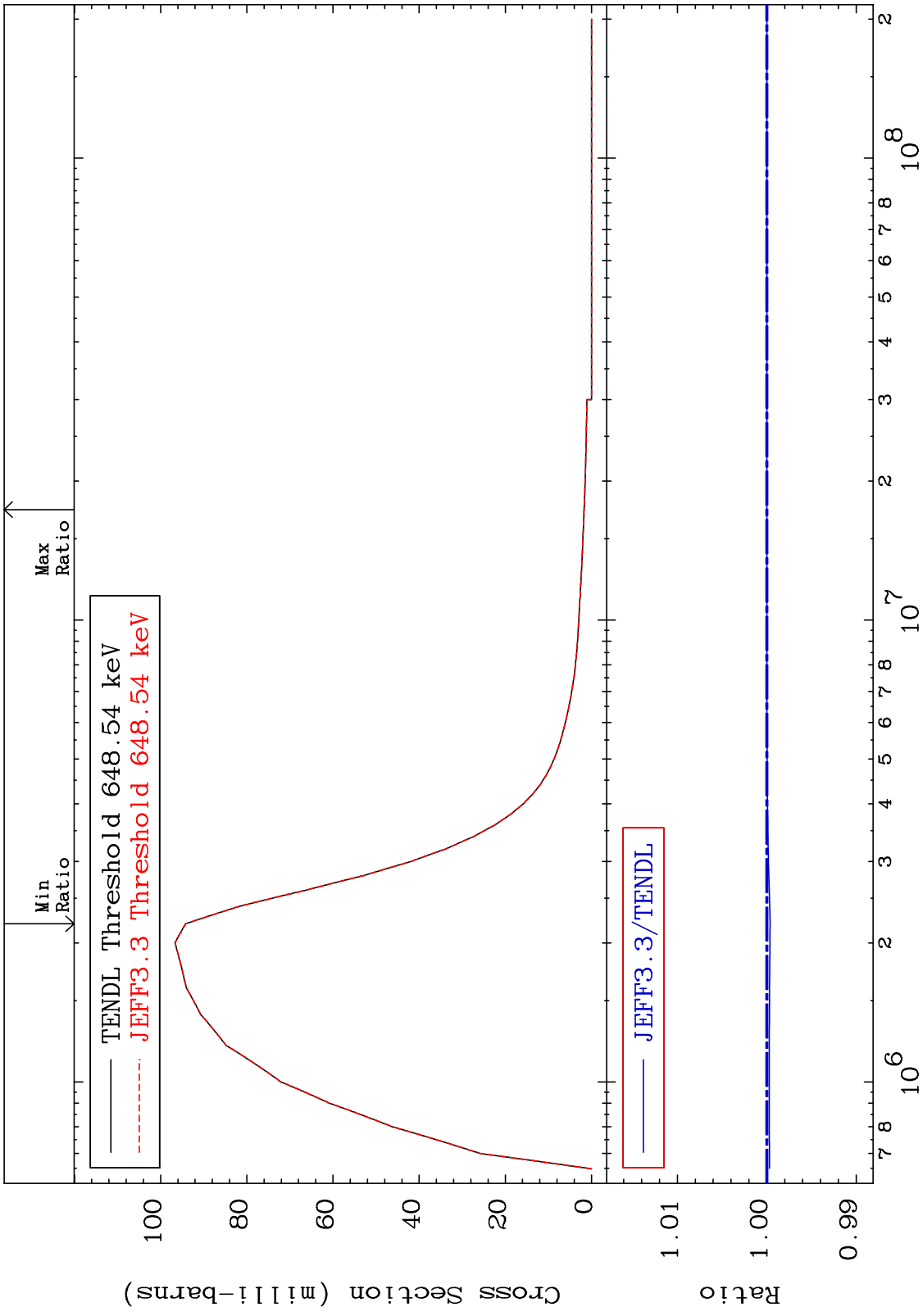


26 80-Hg-201 Incident Energy (eV)

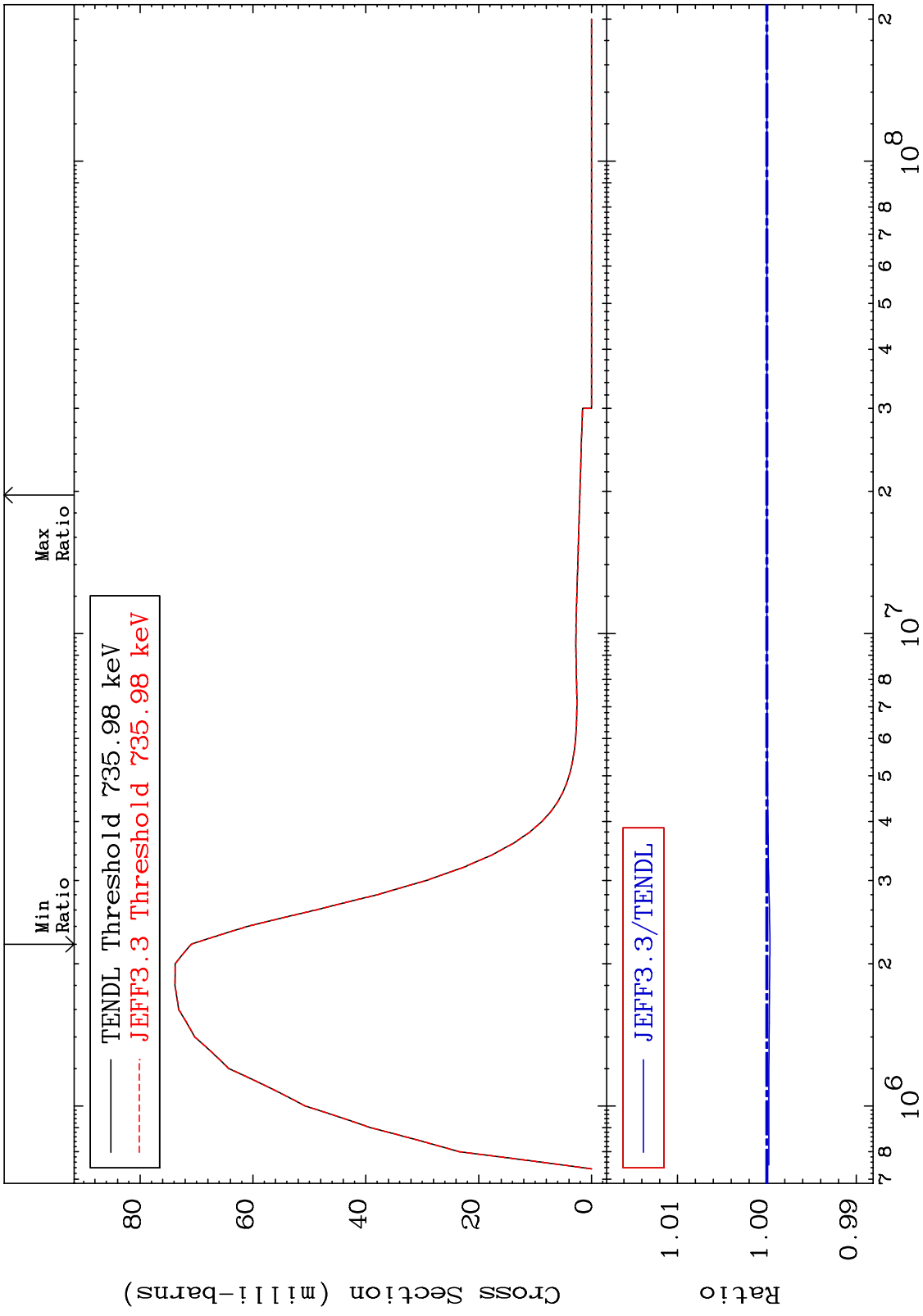
MAT 8040 MT= 60 (n,n') Level Cross Section -0.038 To 0.000 % 80-Hg-201

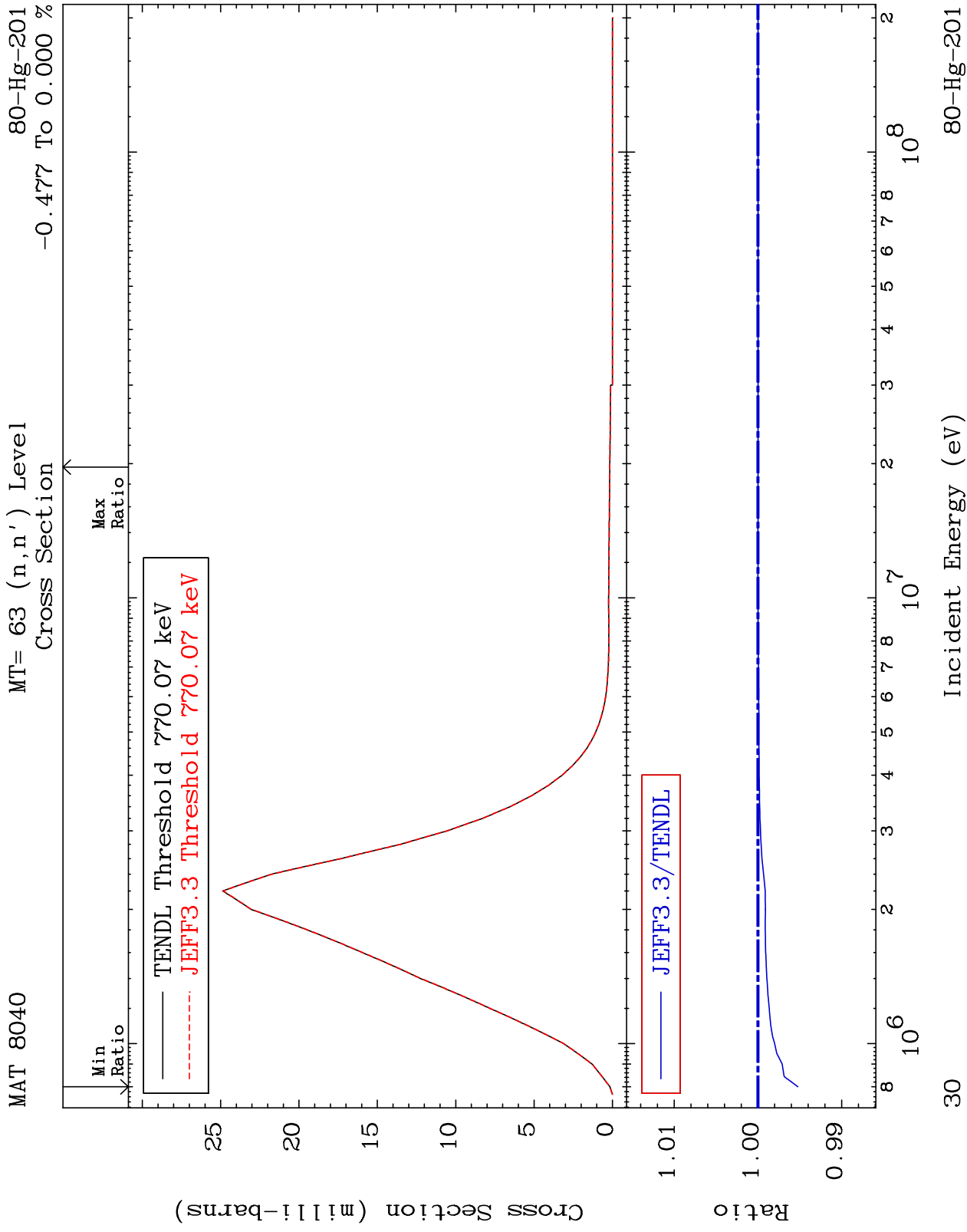


MAT 8040 MT= 61 (n,n') Level Cross Section -0.037 To 0.000 % 80-Hg-201

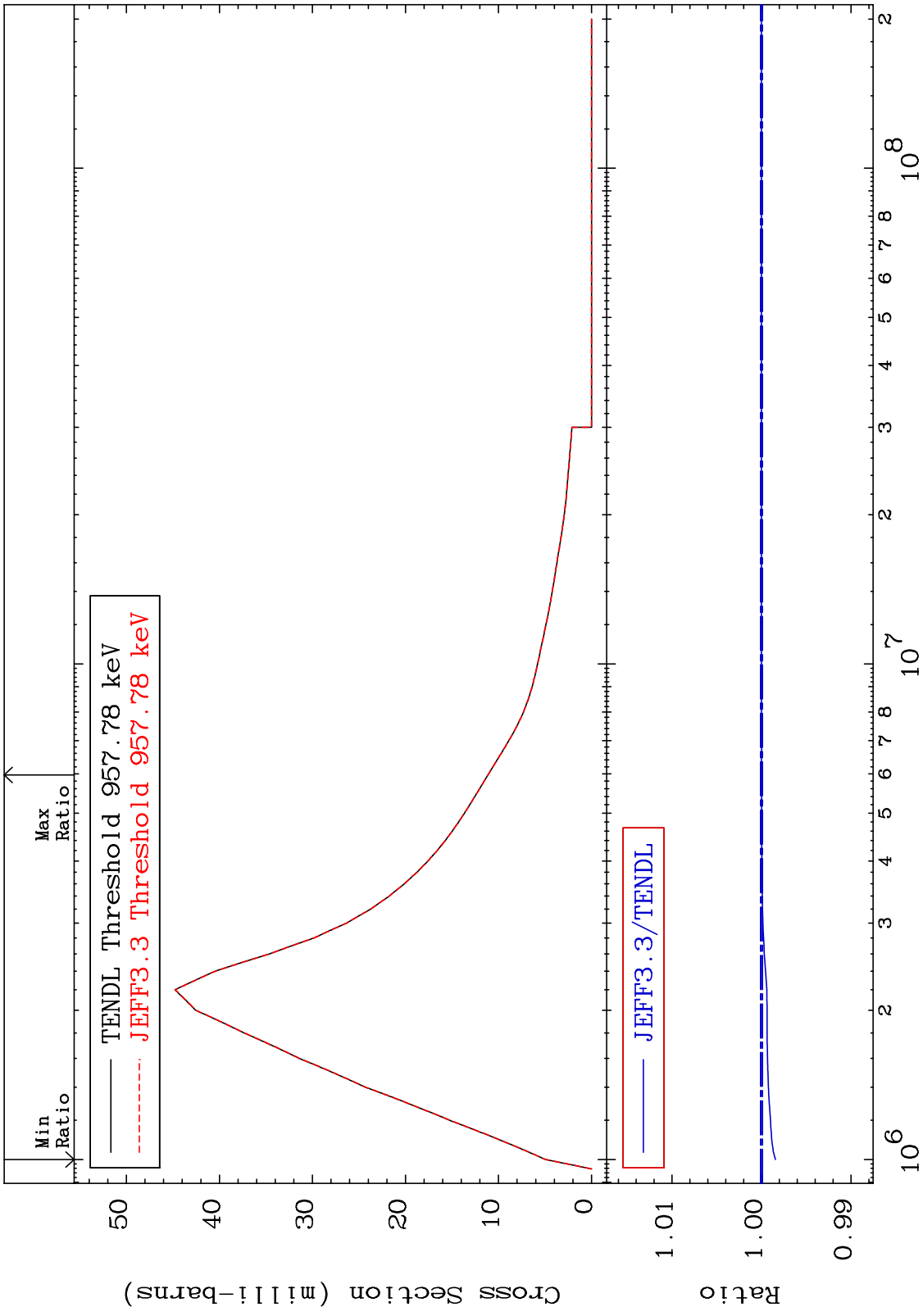


MAT 8040 MT= 62 (n,n') Level Cross Section 80-Hg-201 -0.034 To 0.000 %



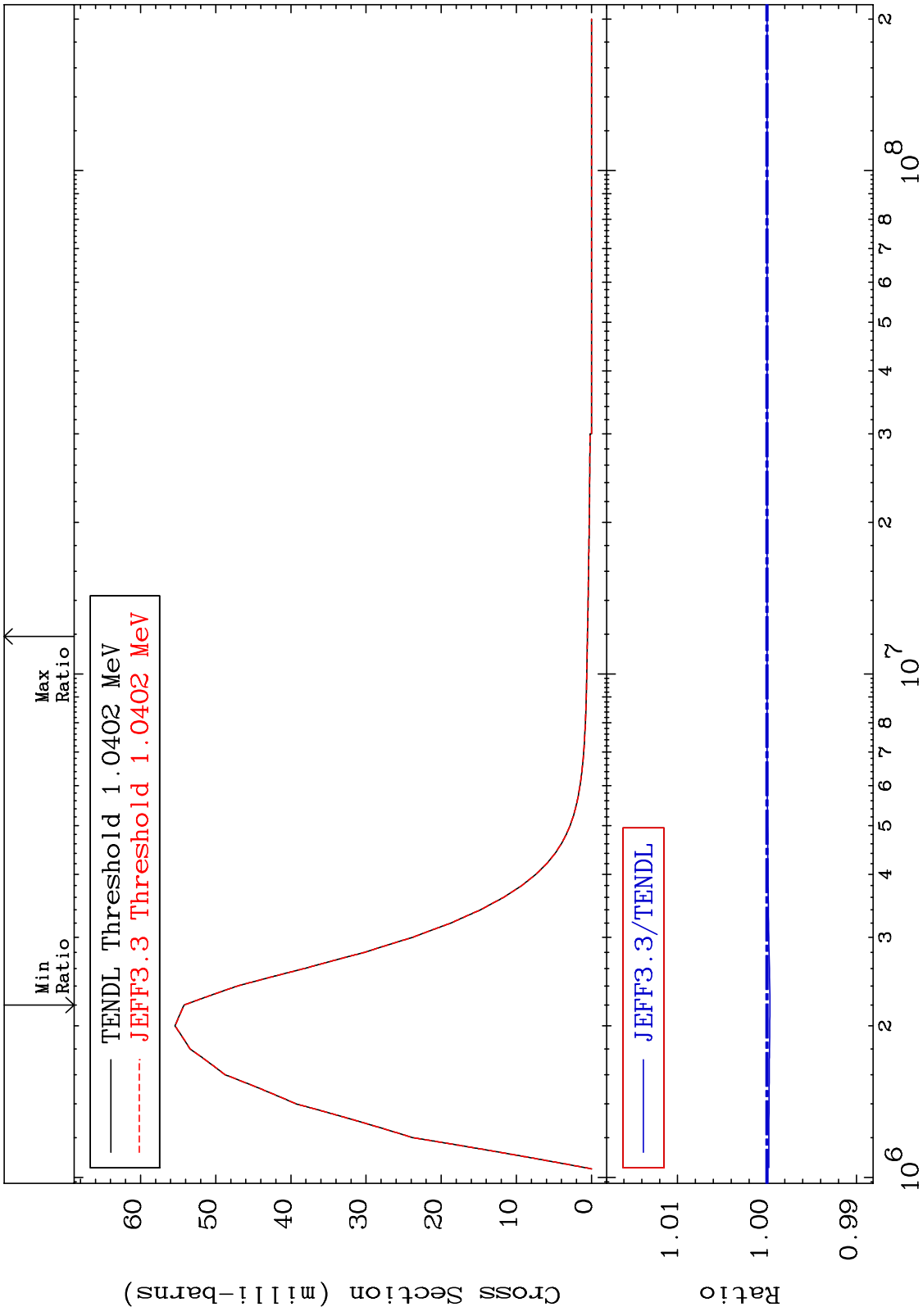


MAT 8040 MT= 64 (n,n') Level Cross Section 80-Hg-201  
 -0.156 To 0.000 %

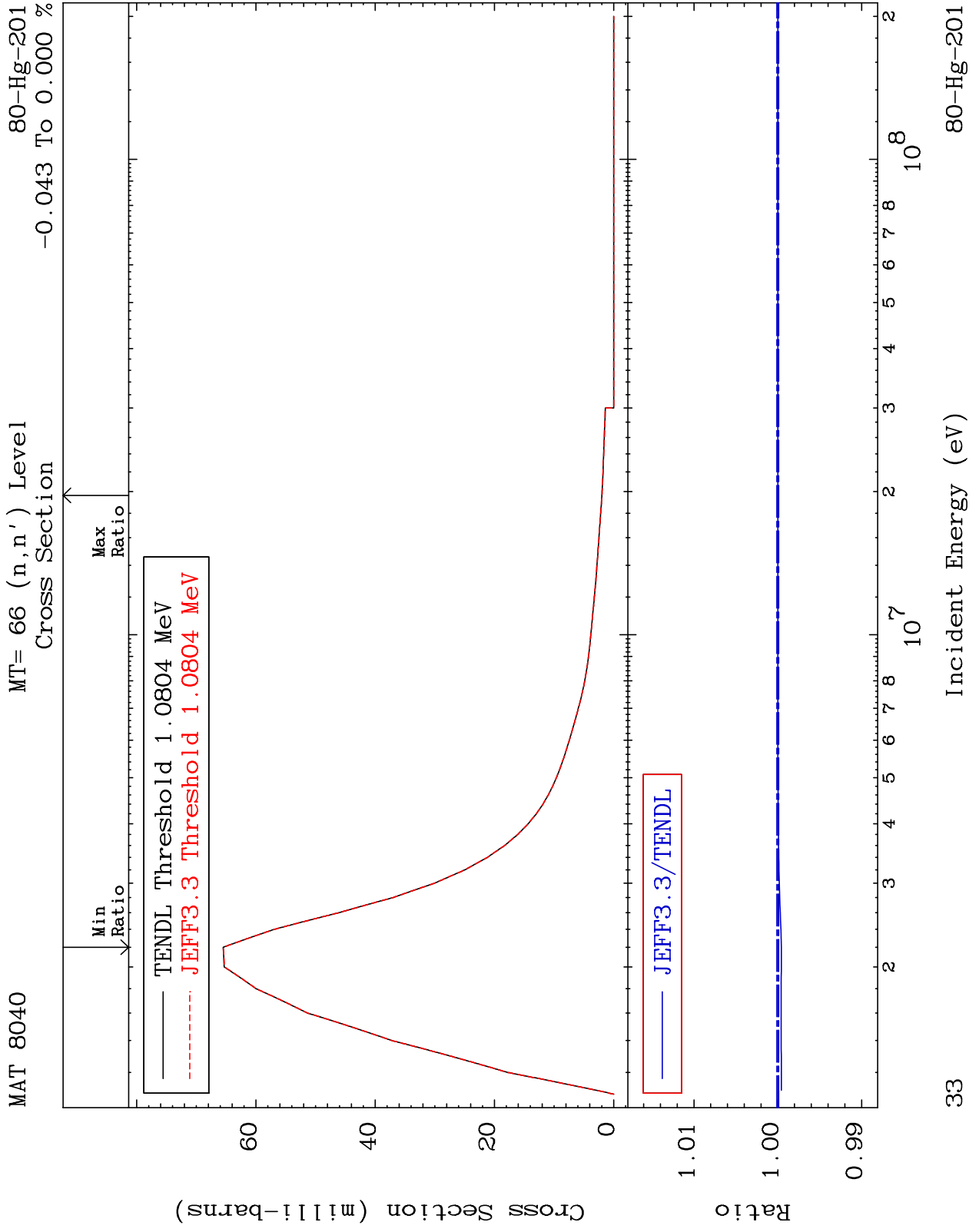


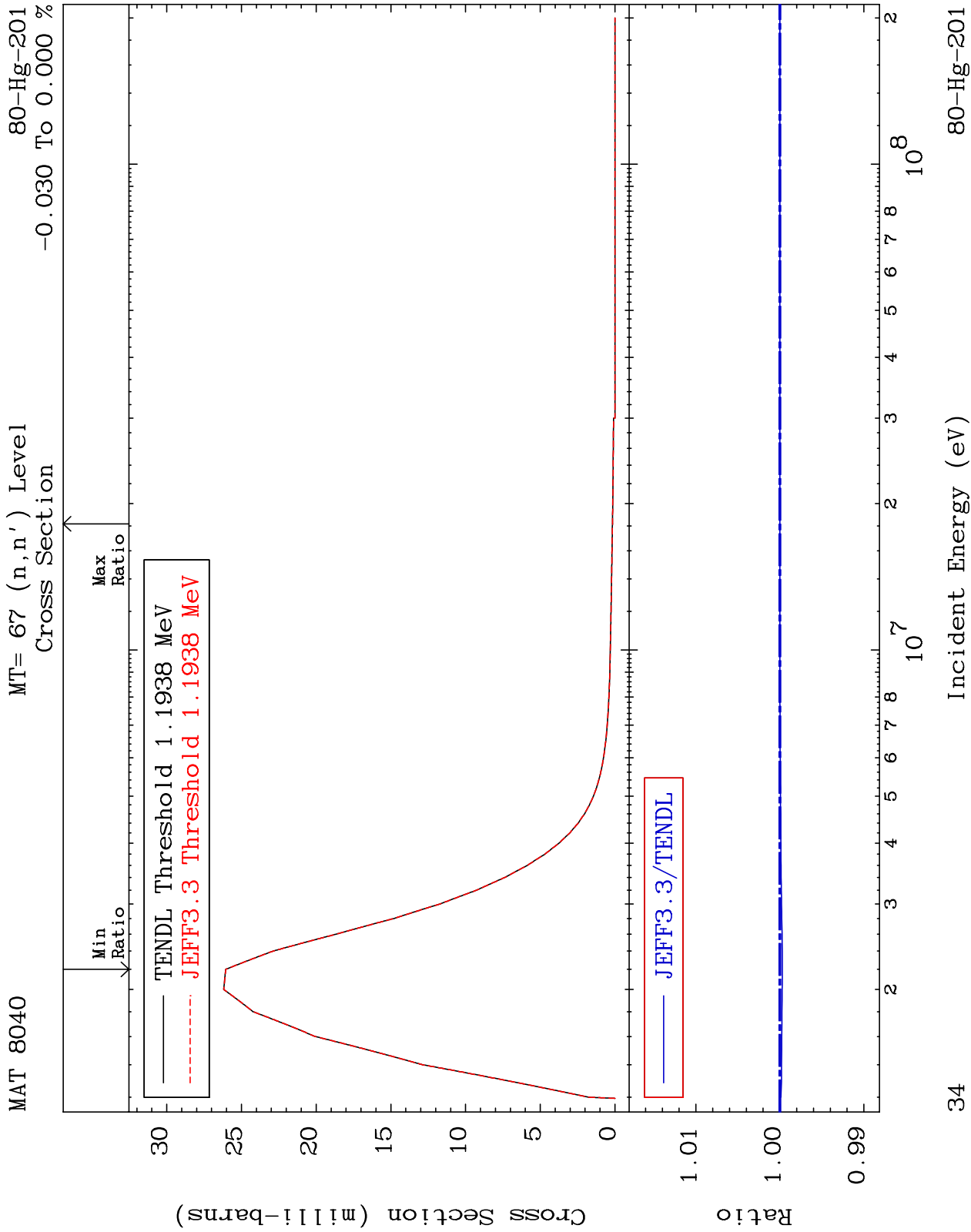


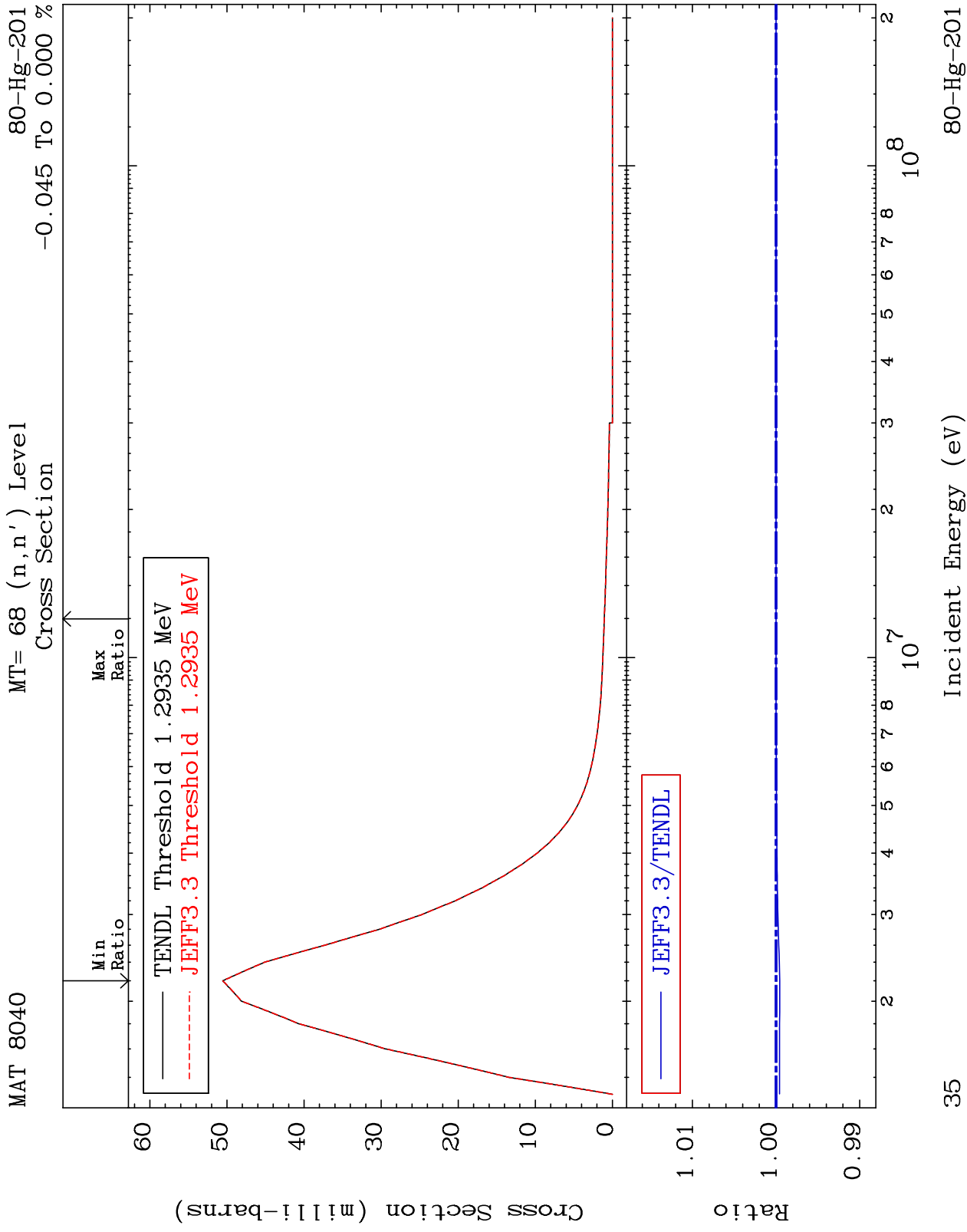
MAT 8040 MT= 65 (n,n') Level Cross Section 80-Hg-201  
-0.033 To 0.000 %



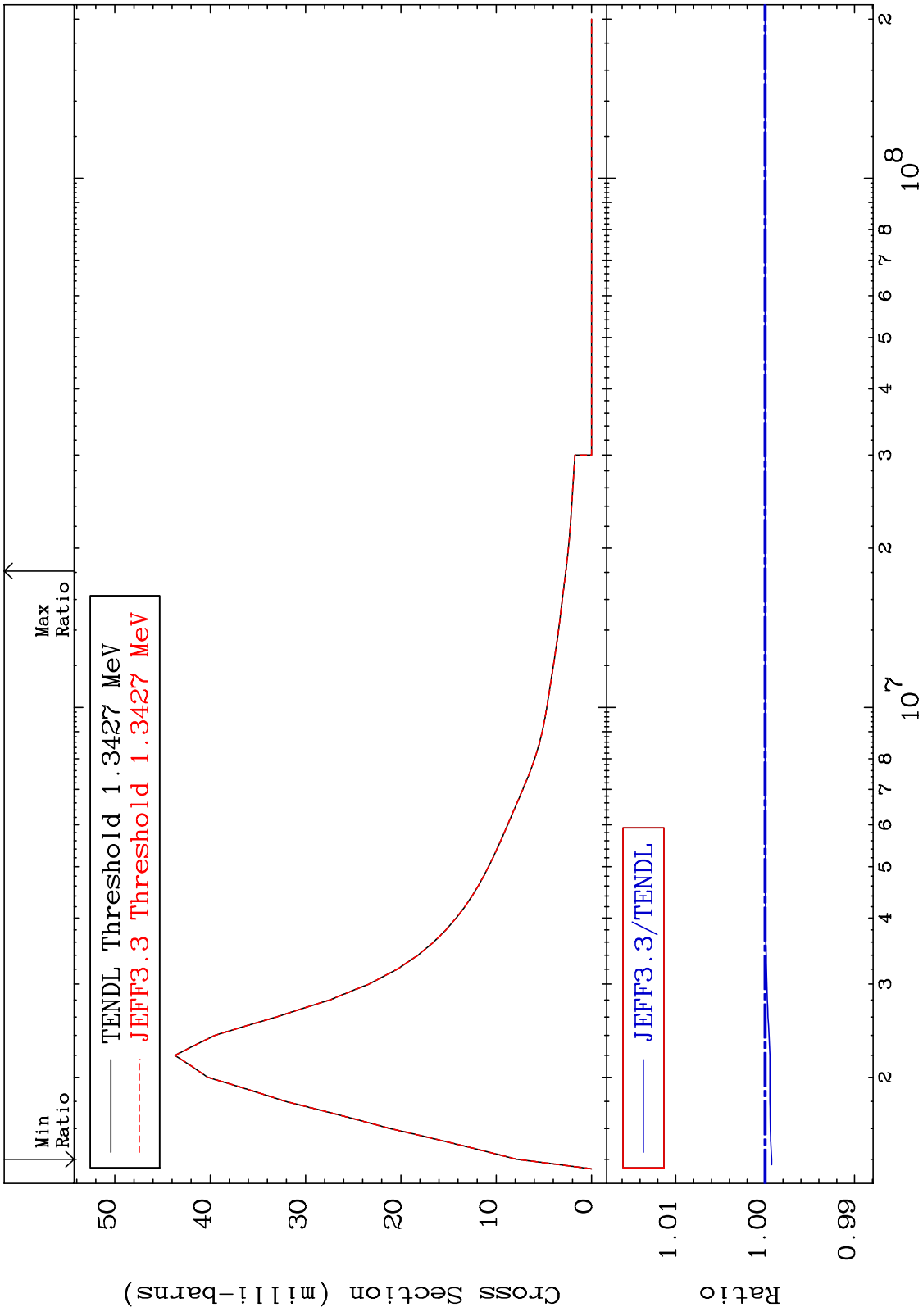
Incident Energy (eV) 80-Hg-201



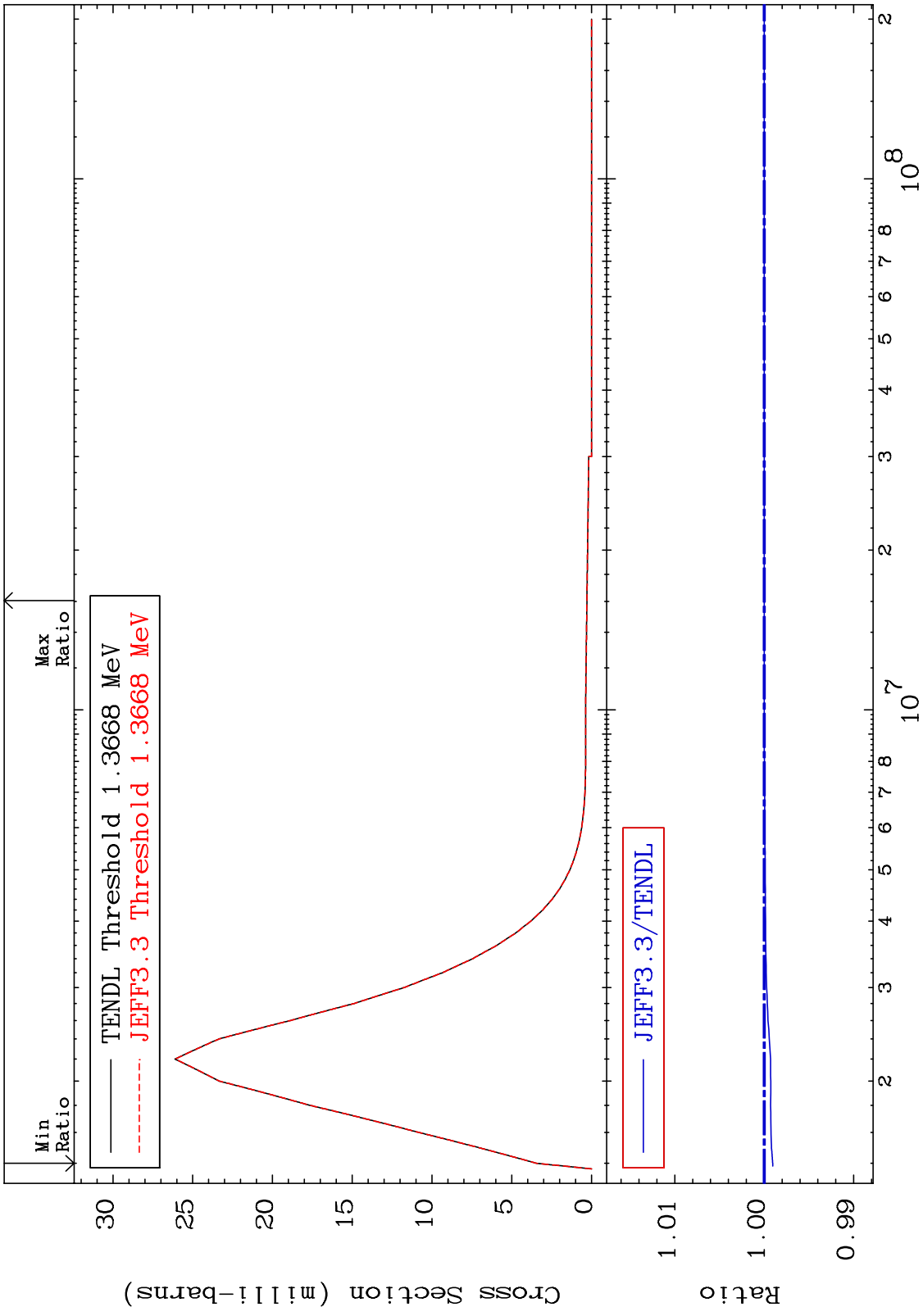


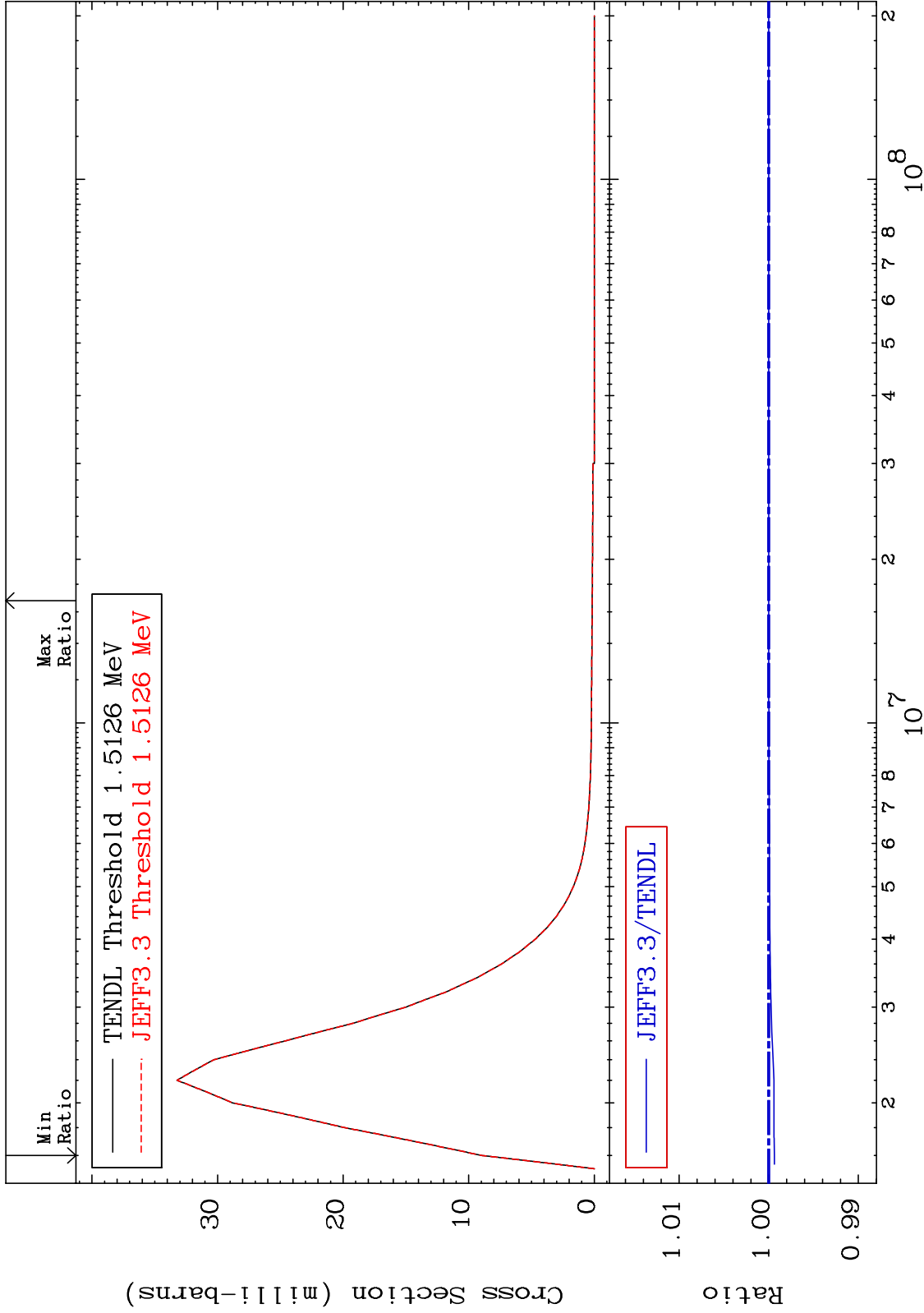


MAT 8040 MT= 69 (n,n') Level Cross Section 80-Hg-201  
 -0.073 To 0.000 %

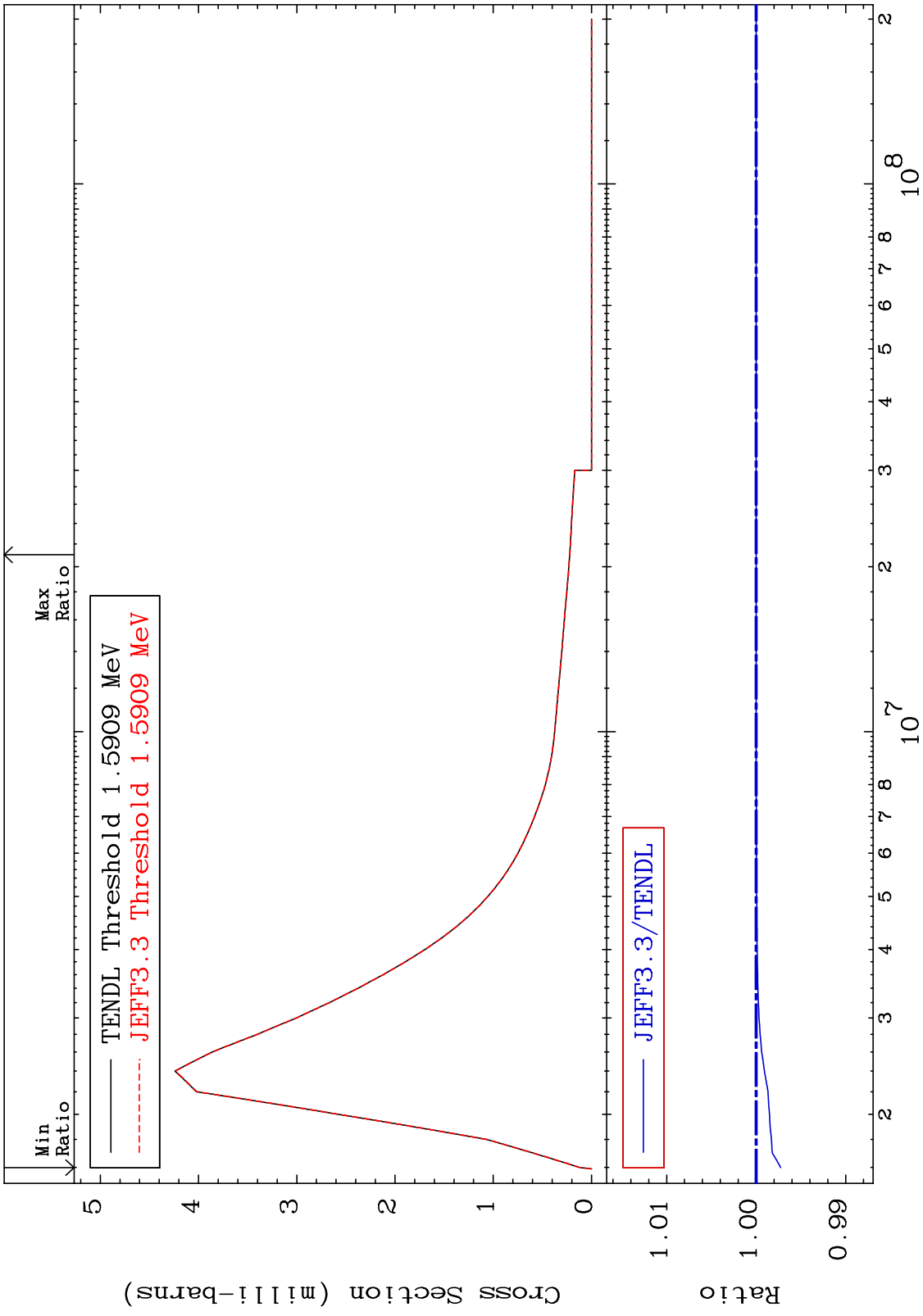


MAT 8040 MT= 70 (n,n') Level Cross Section 80-Hg-201 -0.095 To 0.000 %



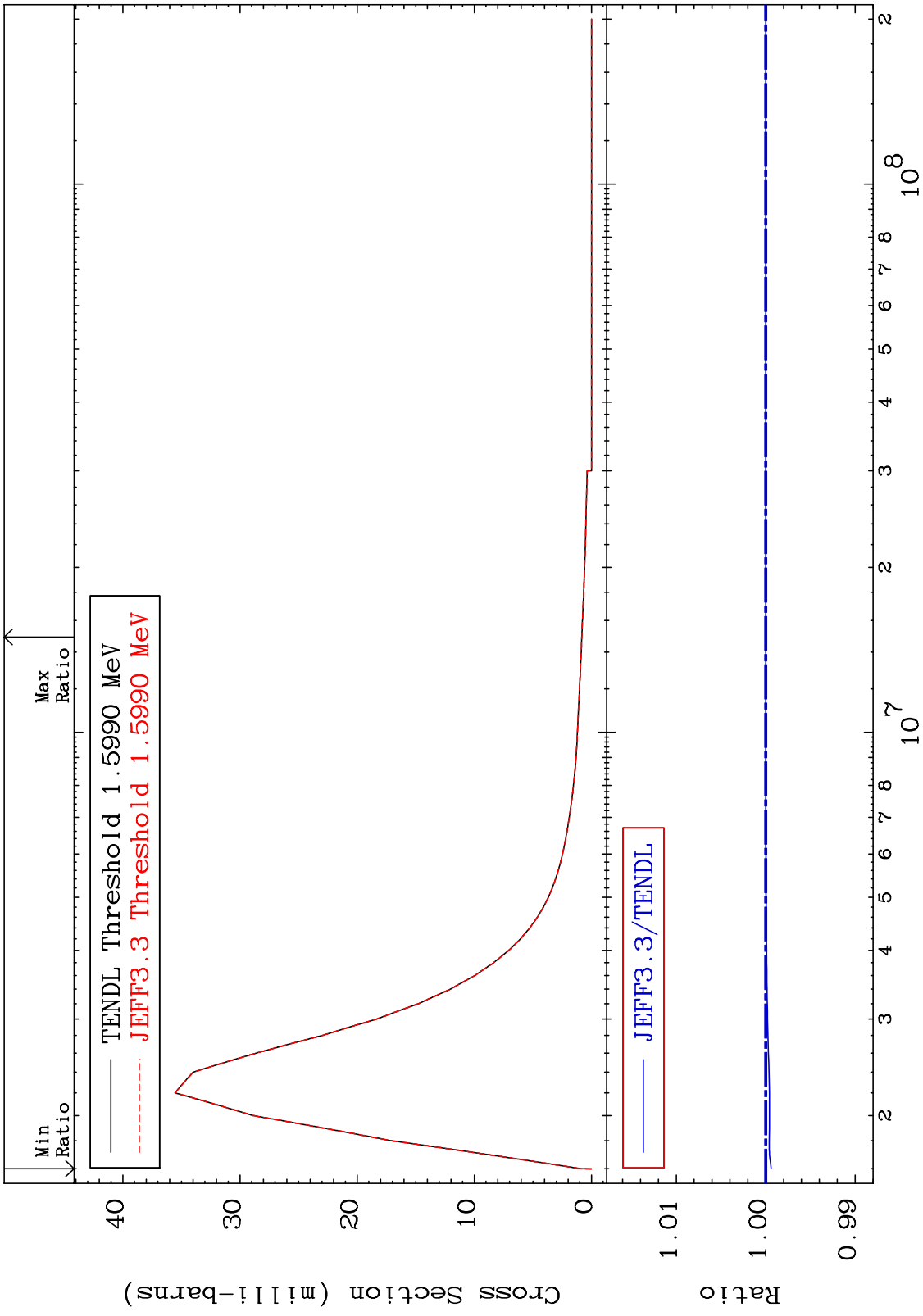


MAT 8040 MT= 72 (n,n') Level Cross Section 80-Hg-201  
 -0.274 To 0.000 %



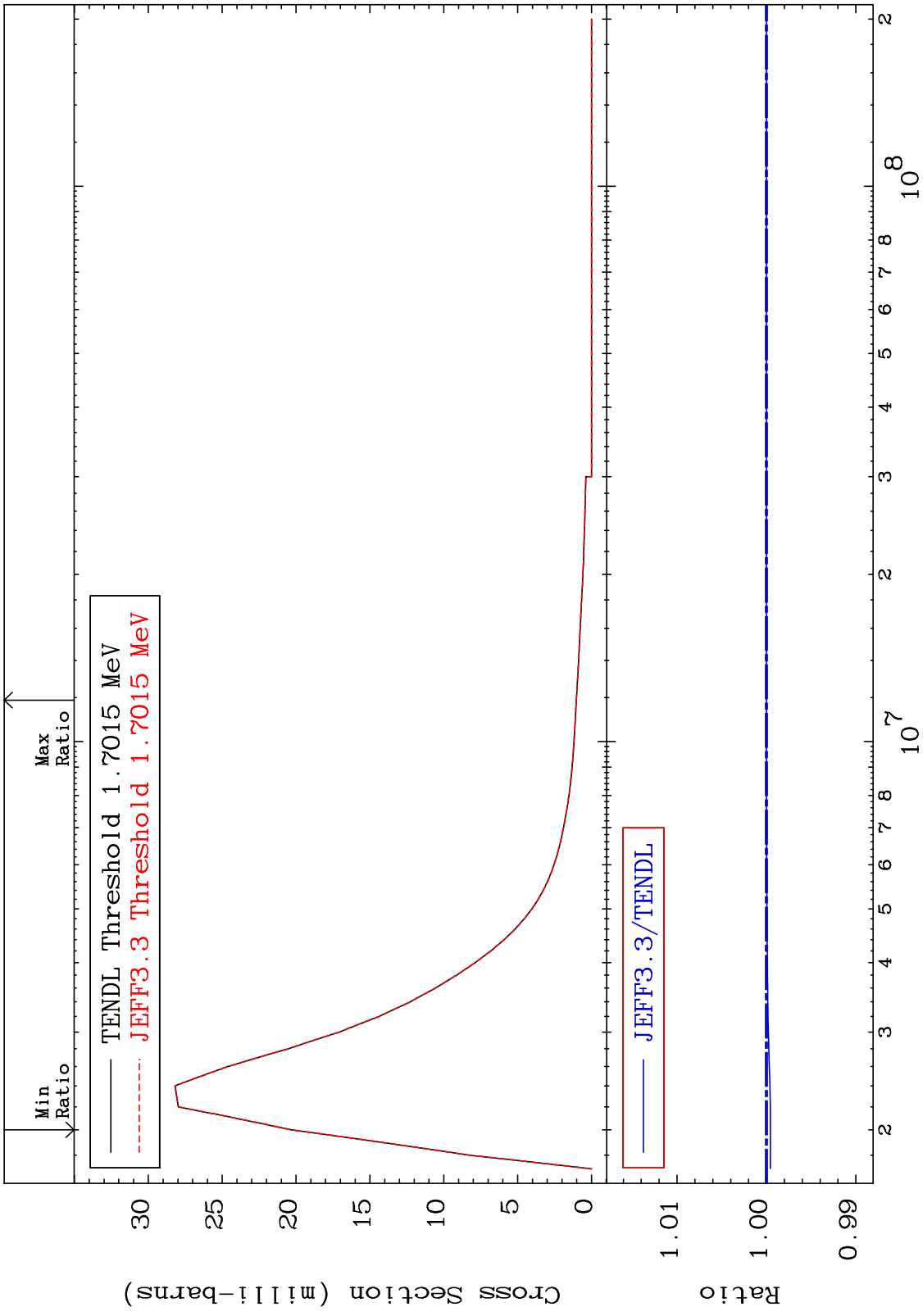


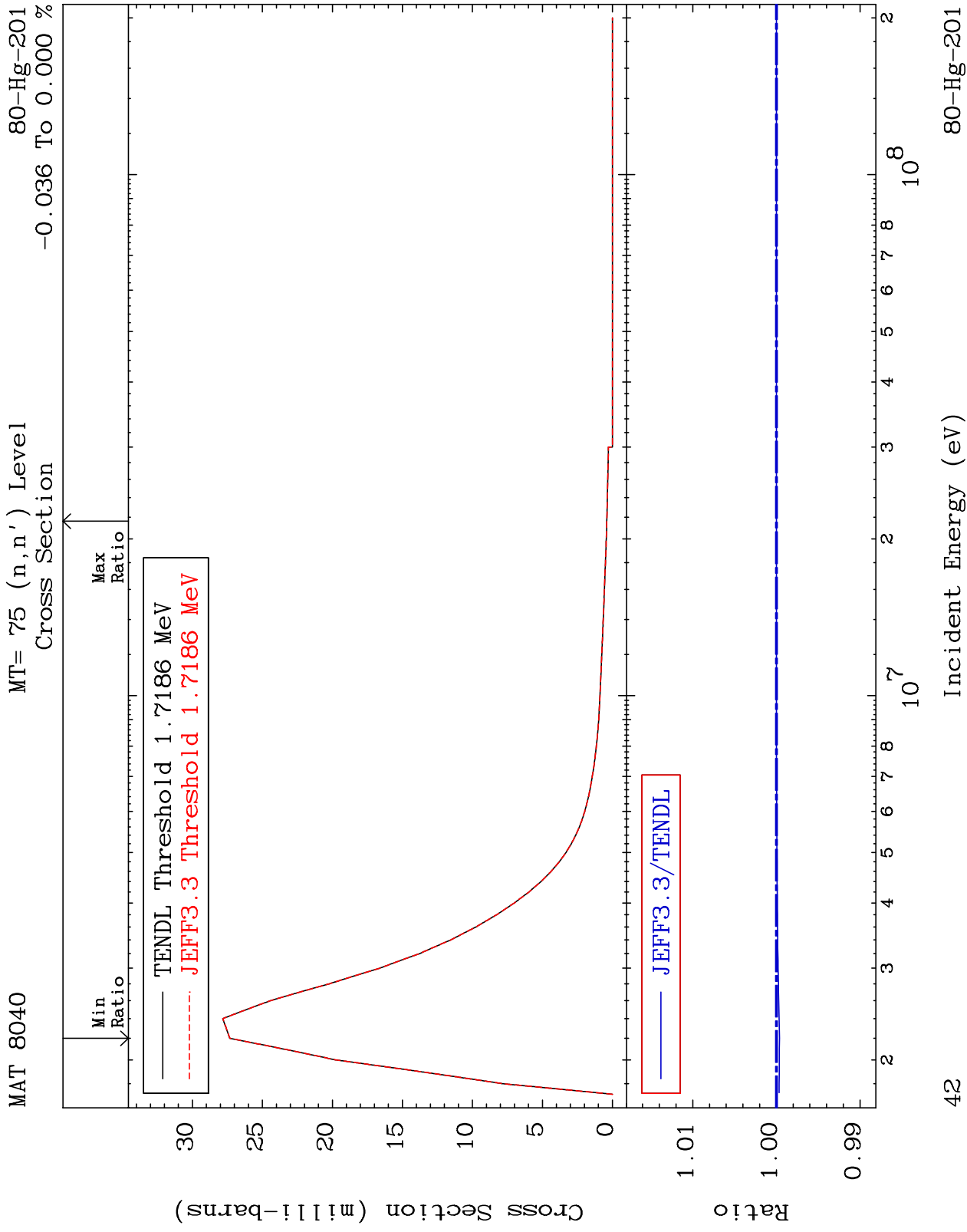
MAT 8040 MT= 73 (n,n') Level Cross Section 80-Hg-201 -0.061 To 0.000 %



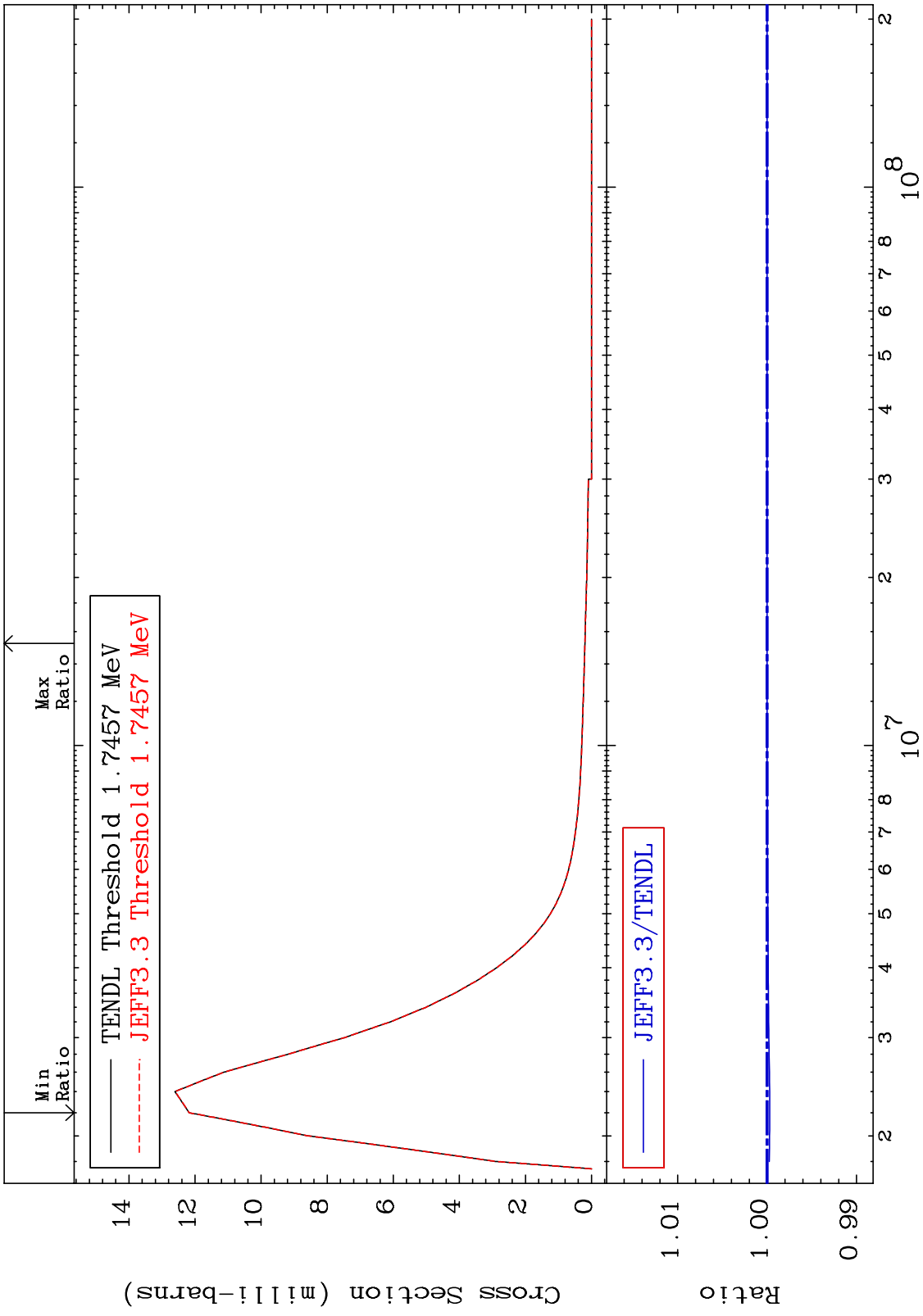
40 80-Hg-201

MAT 8040 MT= 74 (n,n') Level Cross Section 80-Hg-201  
 -0.045 To 0.000 %

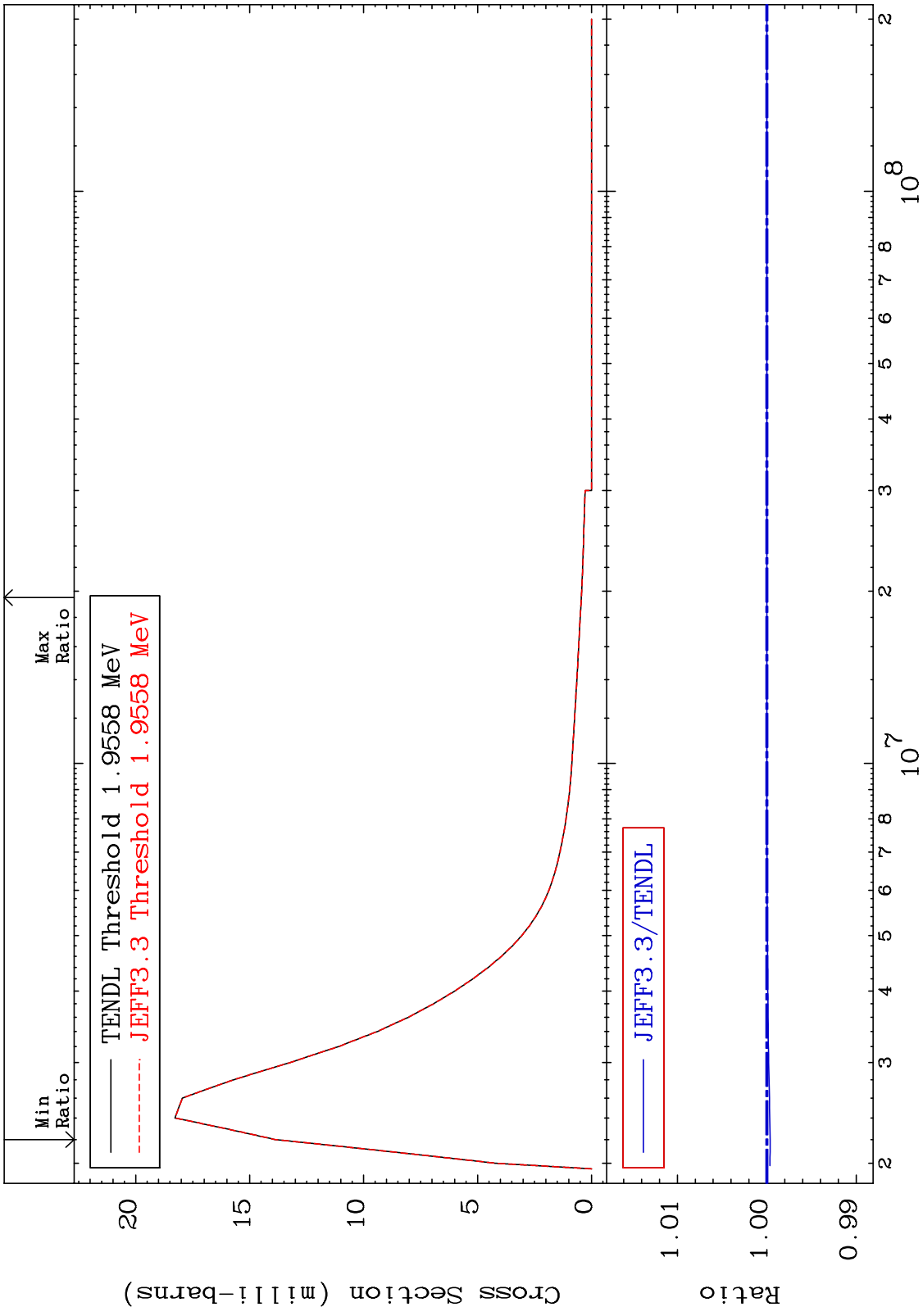




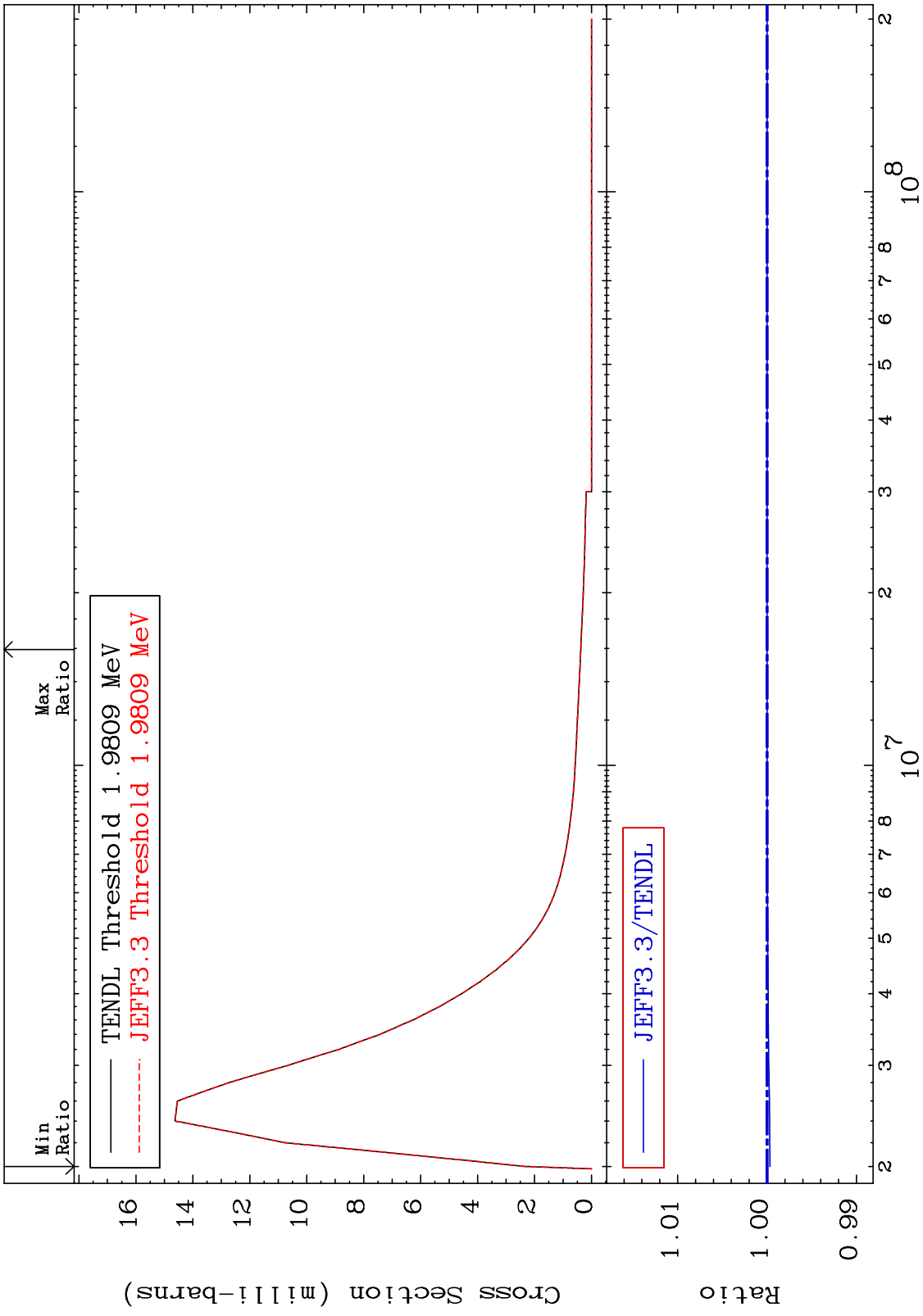
MAT 8040 MT= 76 (n,n') Level Cross Section 80-Hg-201  
 -0.029 To 0.000 %



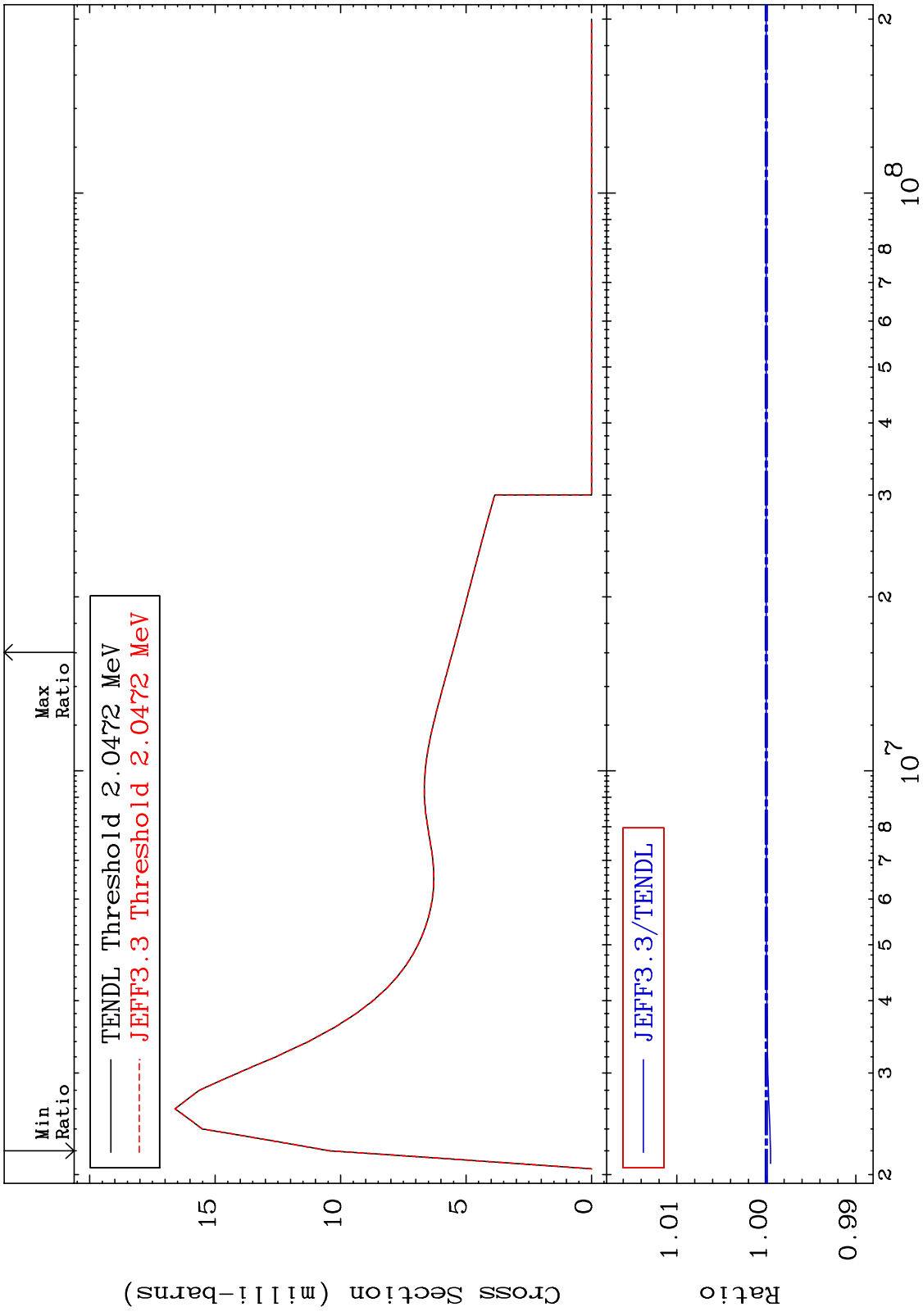
MAT 8040 MT= 77 (n,n') Level Cross Section 80-Hg-201  
 -0.036 To 0.000 %



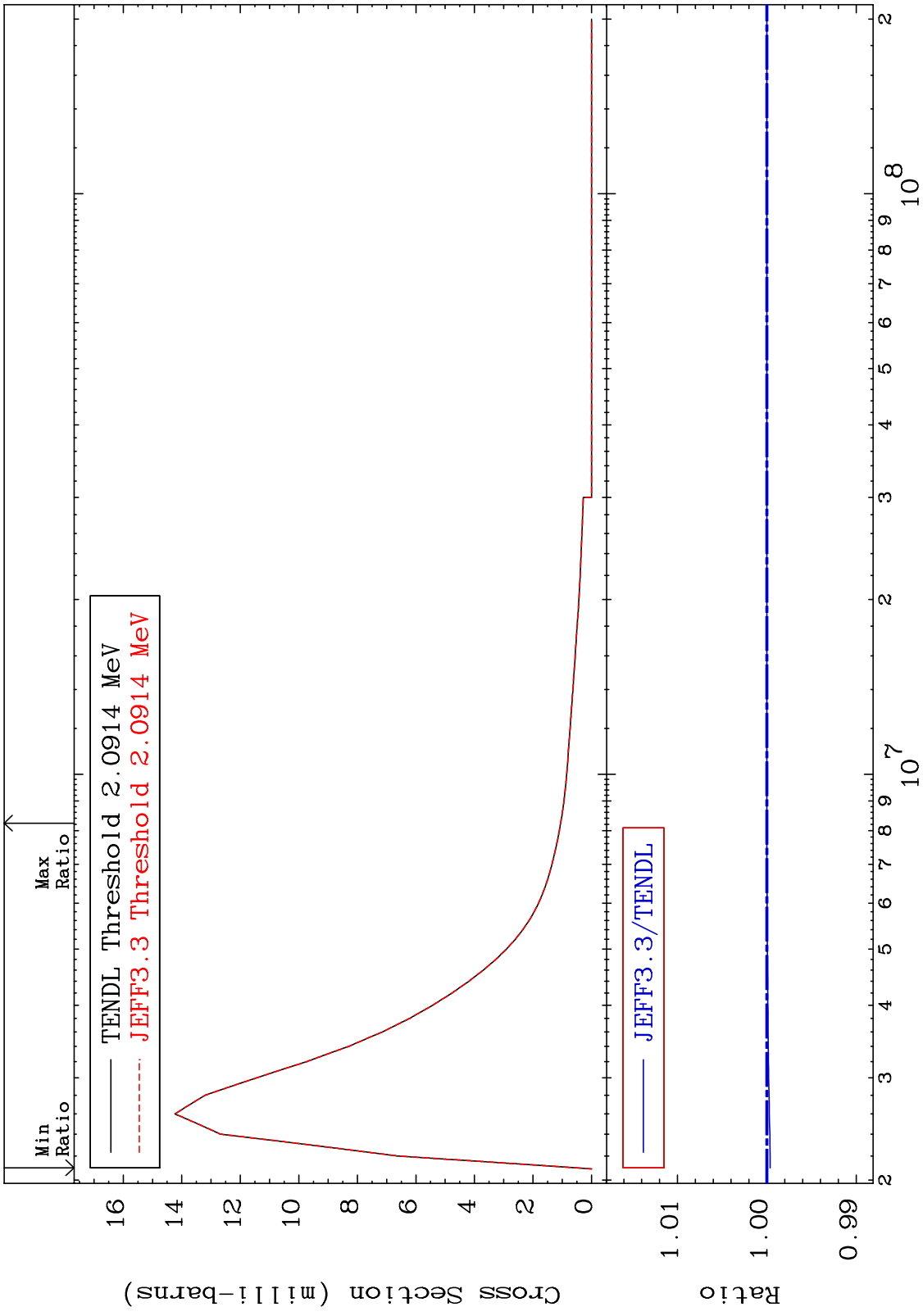
MAT 8040 MT= 78 (n,n') Level Cross Section 80-Hg-201  
 -0.031 To 0.000 %



MAT 8040 MT= 79 (n,n') Level Cross Section 80-Hg-201  
 -0.048 To 0.000 %



MAT 8040 MT= 80 (n,n') Level Cross Section 80-Hg-201 -0.036 To 0.000 %

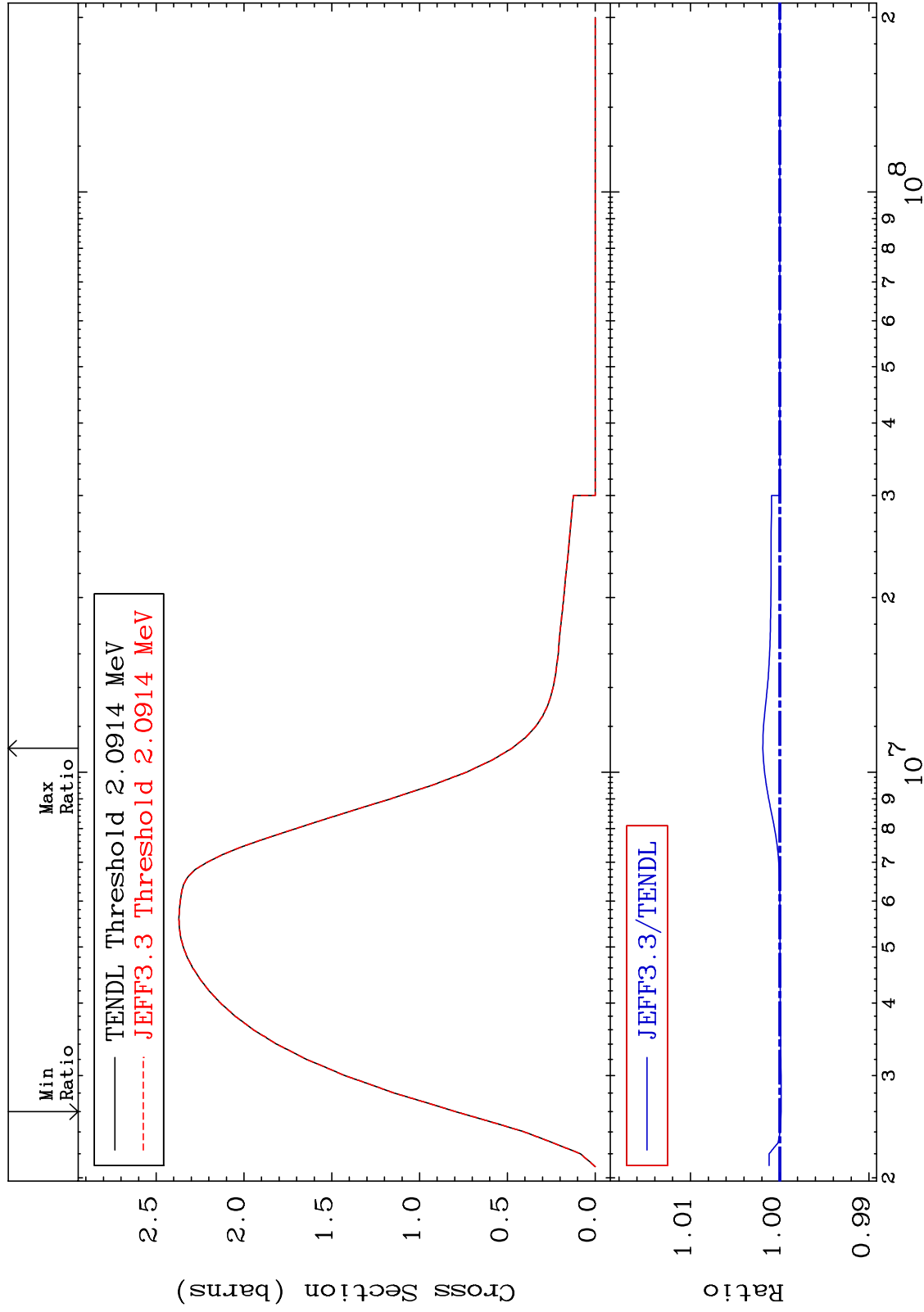




MAT 8040

(n, n') Continuum  
Cross Section

80-Hg-201  
-0.016 To 0.189 %



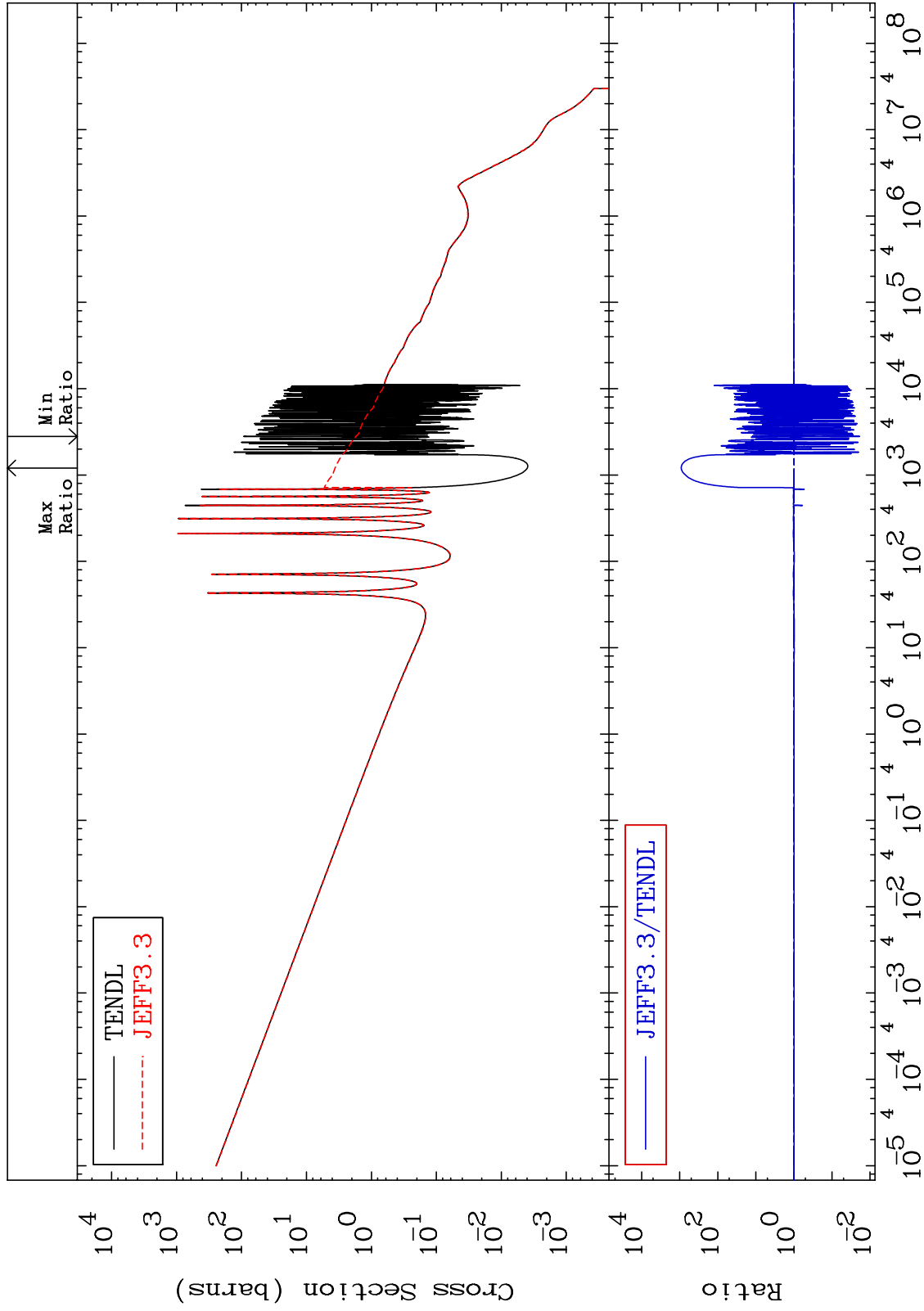
MAT 8040

(n,  $\gamma$ )

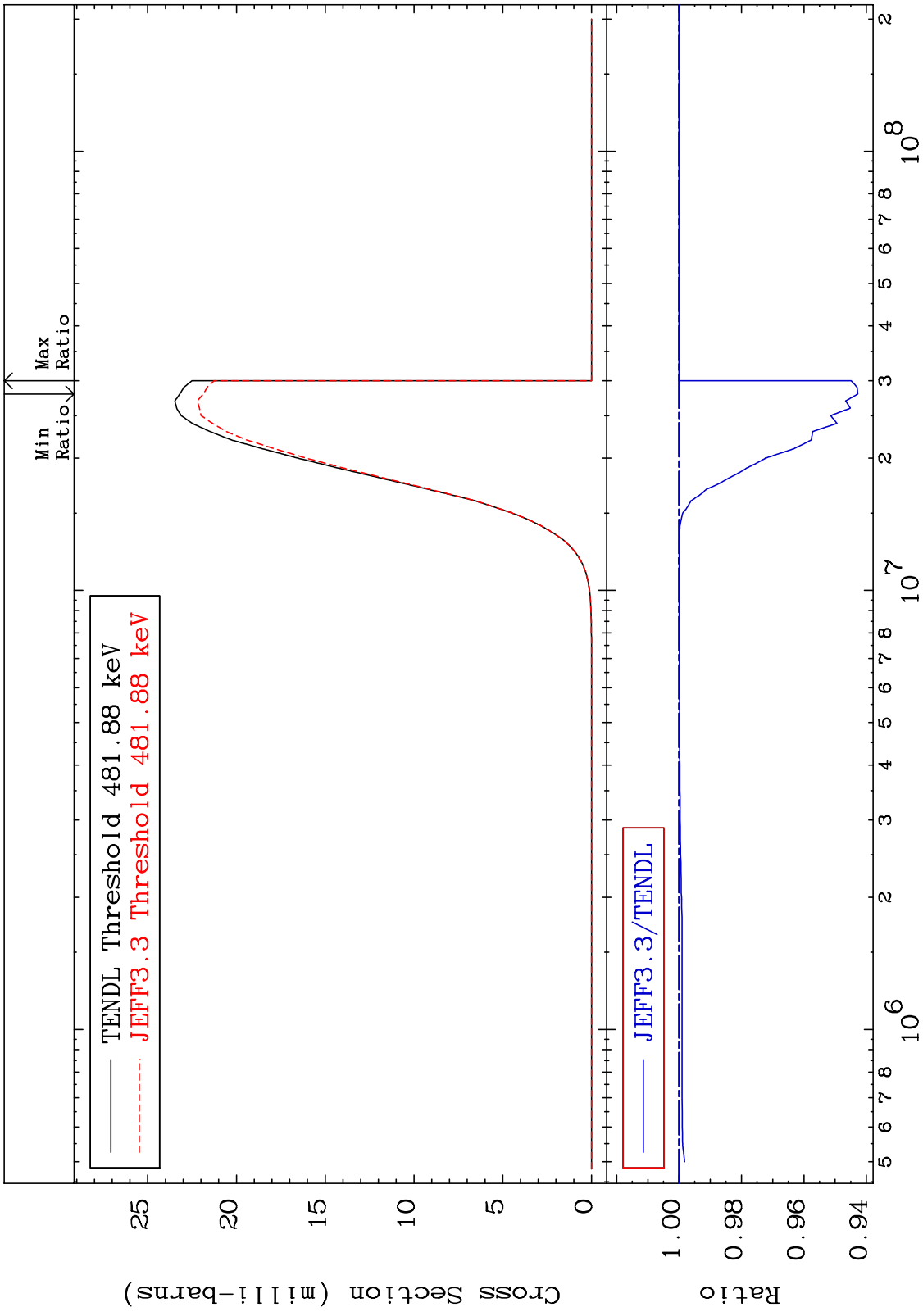
80-Hg-201

-98.14 To 9999. %

Cross Section

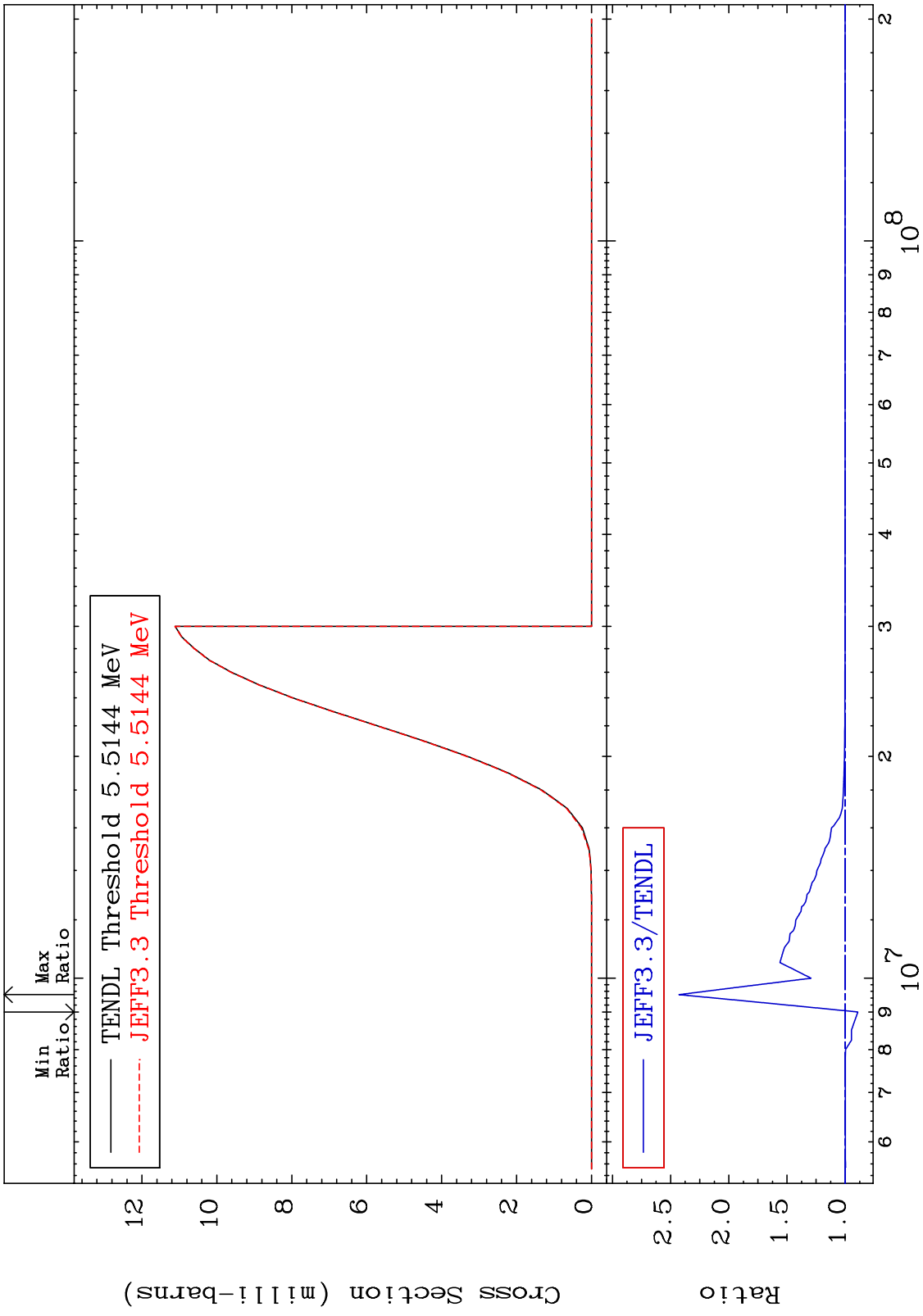


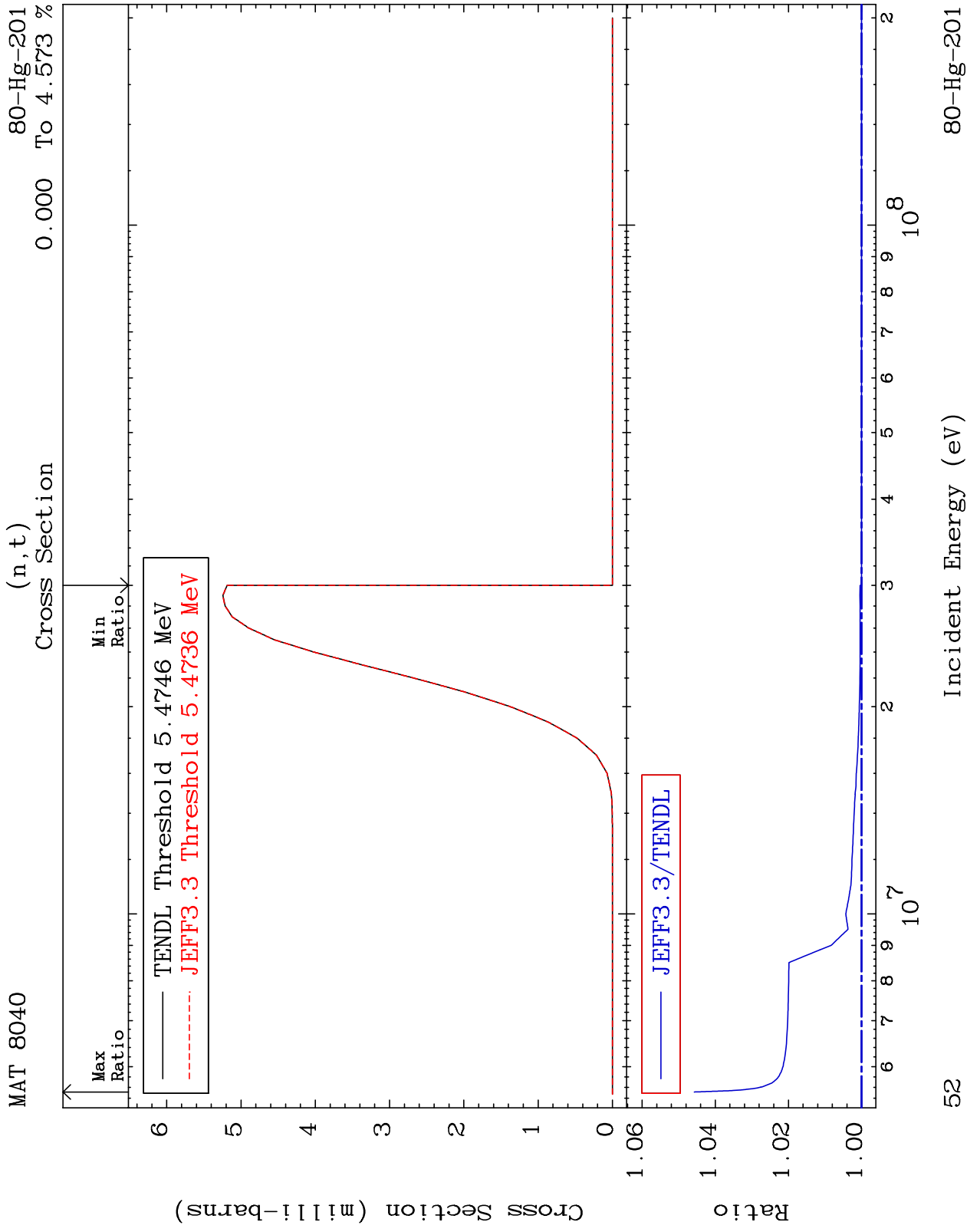
MAT 8040 (n,p) Cross Section 80-Hg-201  
 -5.727 To 0.000 %



50 80-Hg-201

MAT 8040 (n,d) Cross Section 80-Hg-201 -10.91 To 142.8 %





MAT 8040 80-Hg-201

(n, t) To 4.573 %

Max Ratio Min Ratio

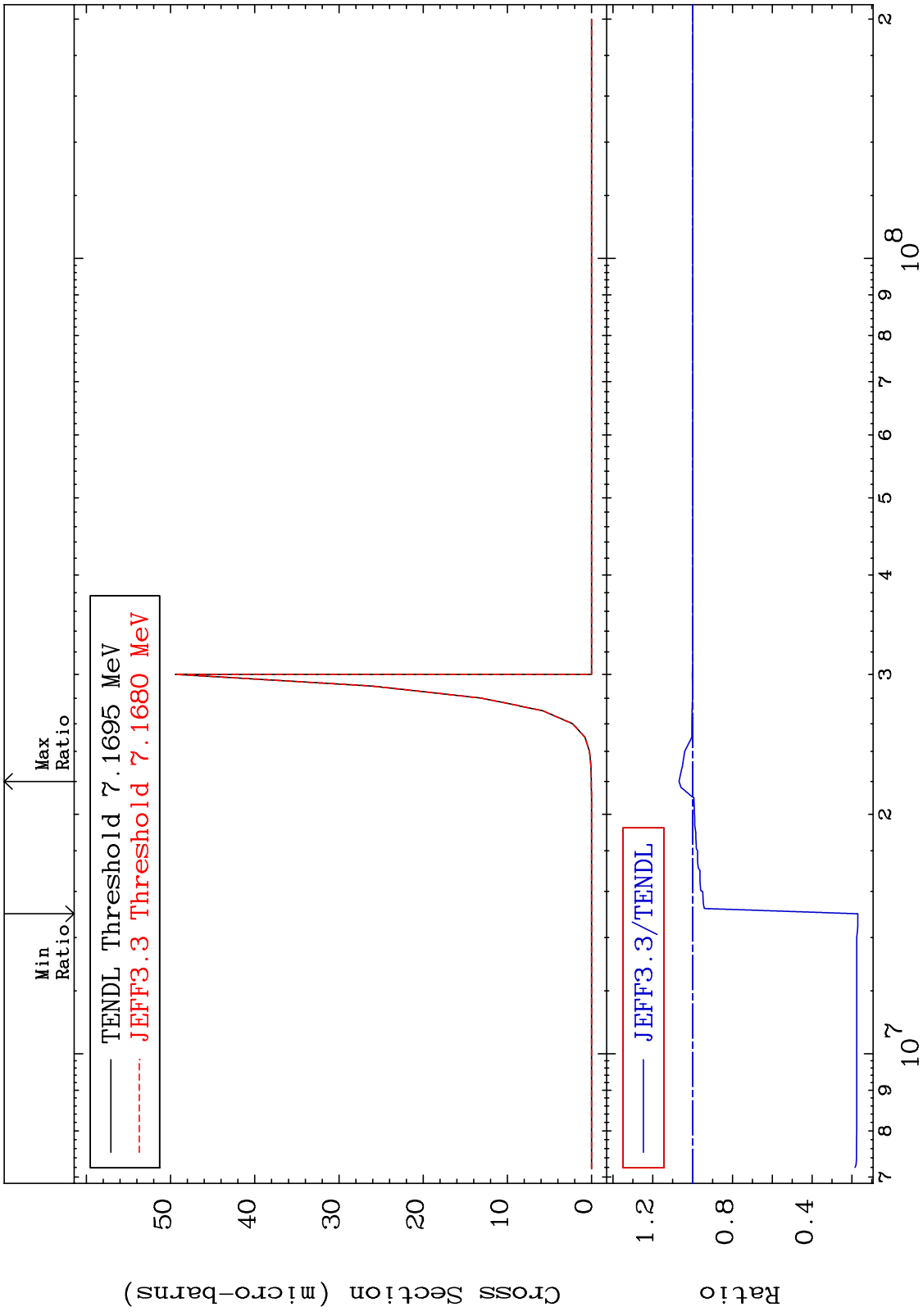
— TENDL Threshold 5.4746 MeV

- - - JEFF3.3 Threshold 5.4736 MeV

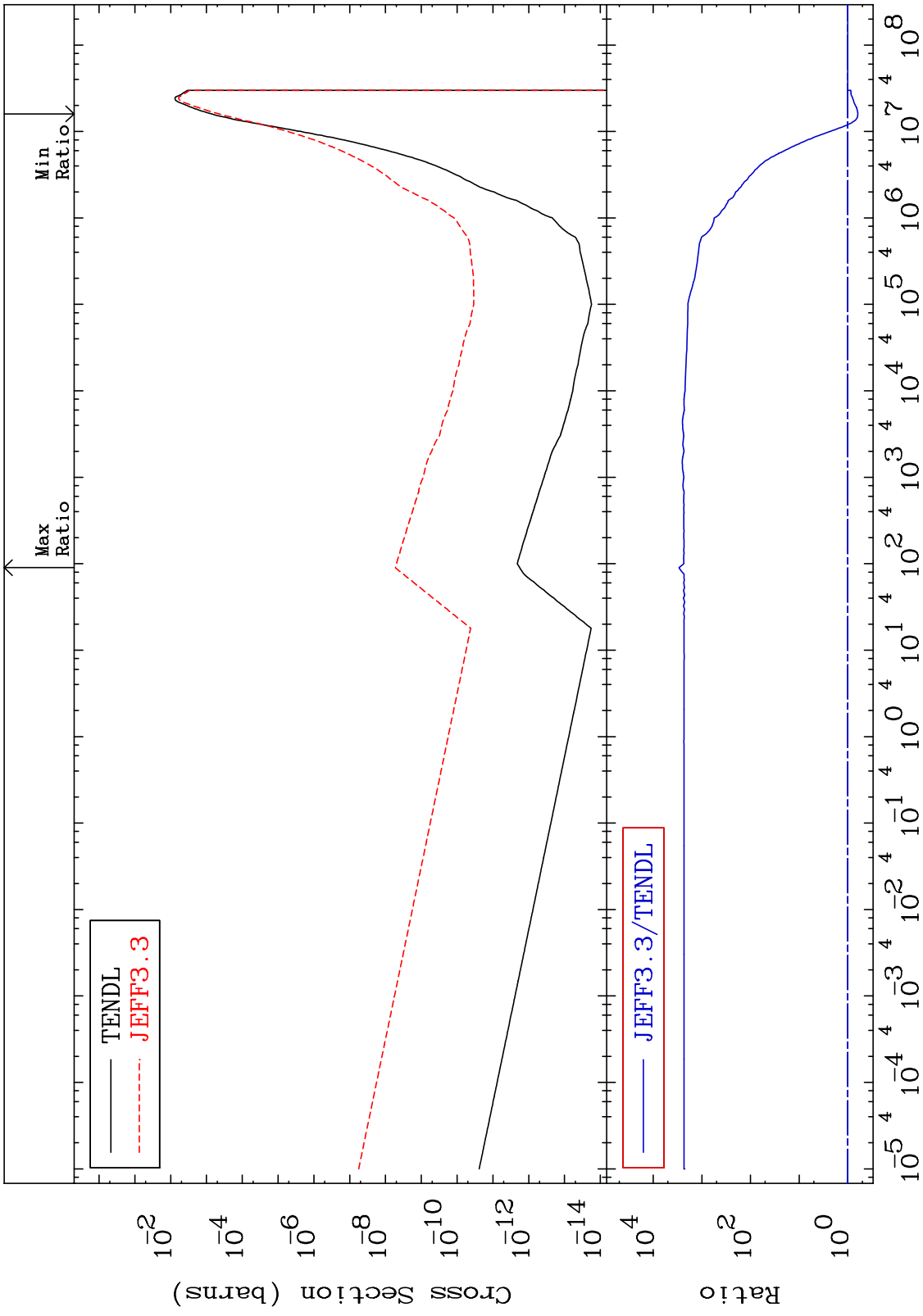
Incident Energy (eV)

52

MAT 8040 (n, He-3) Cross Section 80-Hg-201 -82.95 To 6.836 %

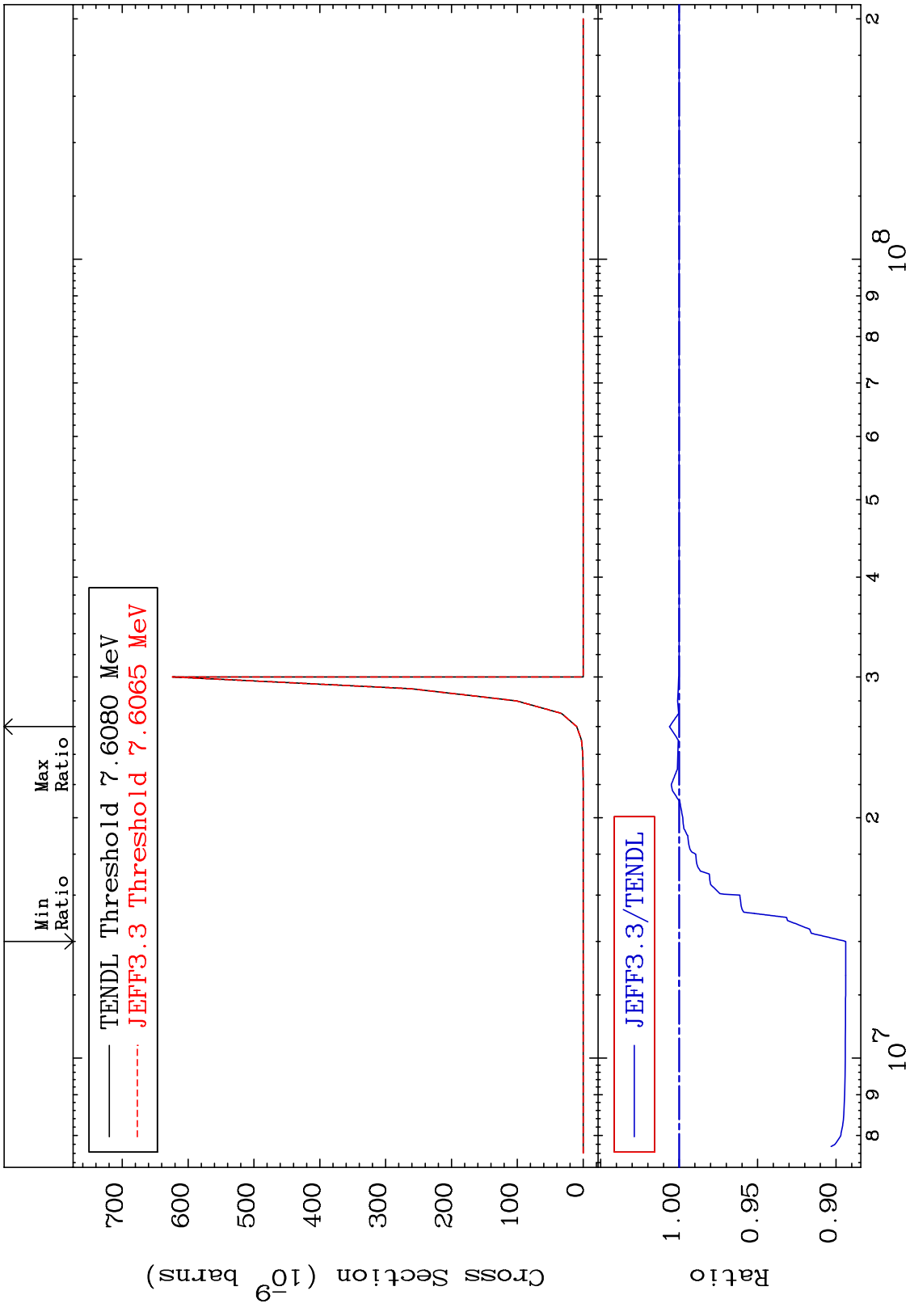


MAT 8040 80-Hg-201  
-37.89 To 9999. %  
 (n,  $\alpha$ )  
 Cross Section



54 80-Hg-201

MAT 8040 (n,2p) Cross Section 80-Hg-201 -10.62 To 0.619 %





MAT 8040

(n,p)  $\alpha$

80-Hg-201

-58.05 To 9999. %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 1.0462 MeV  
JEFF3.3 Threshold 1.0447 MeV

Cross Section ( $10^9$  barns)

4

3

2

1

0

JEFF3.3/TENDL

Ratio

$10^2$

$10^0$

$10^6$

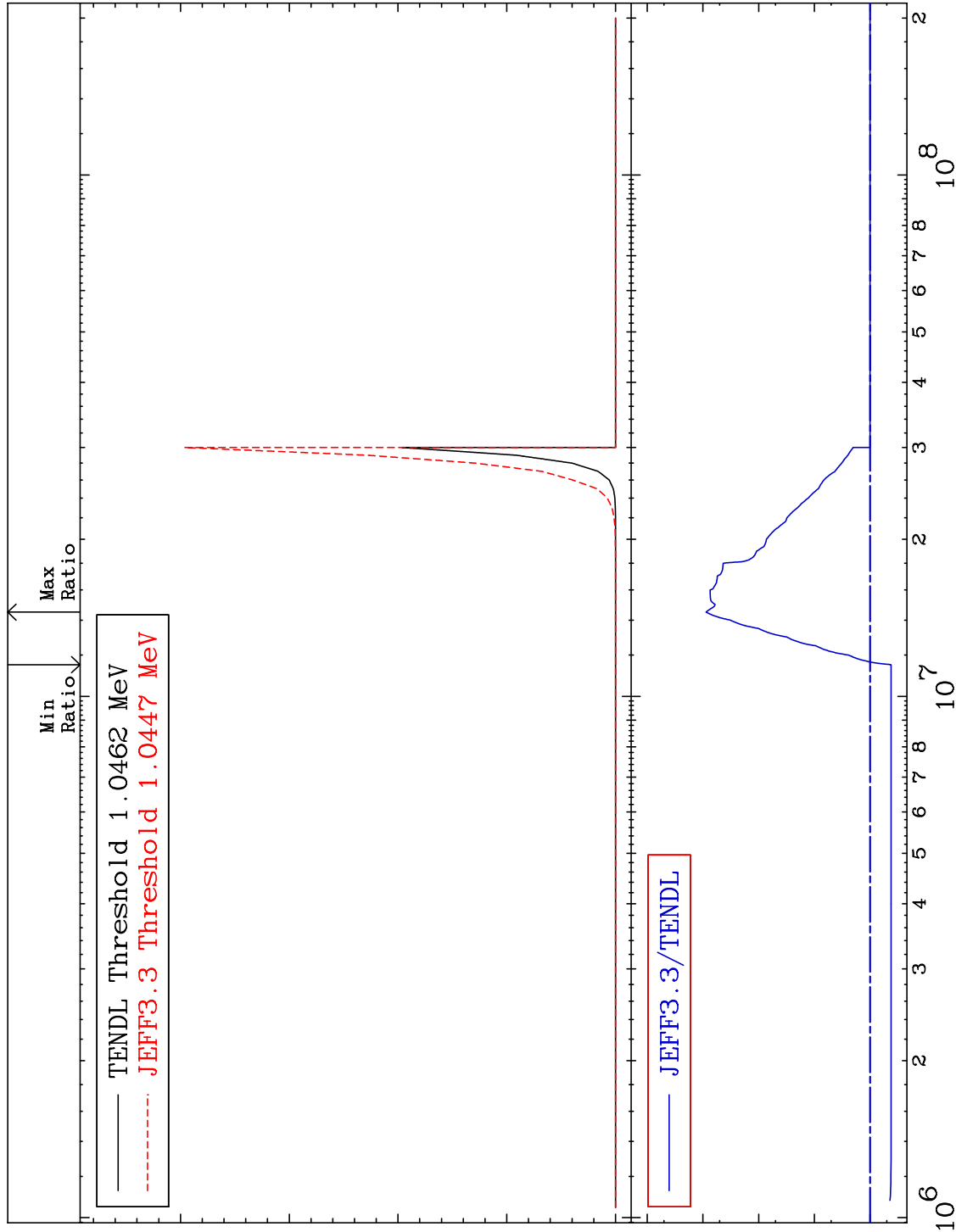
$10^7$

$10^8$

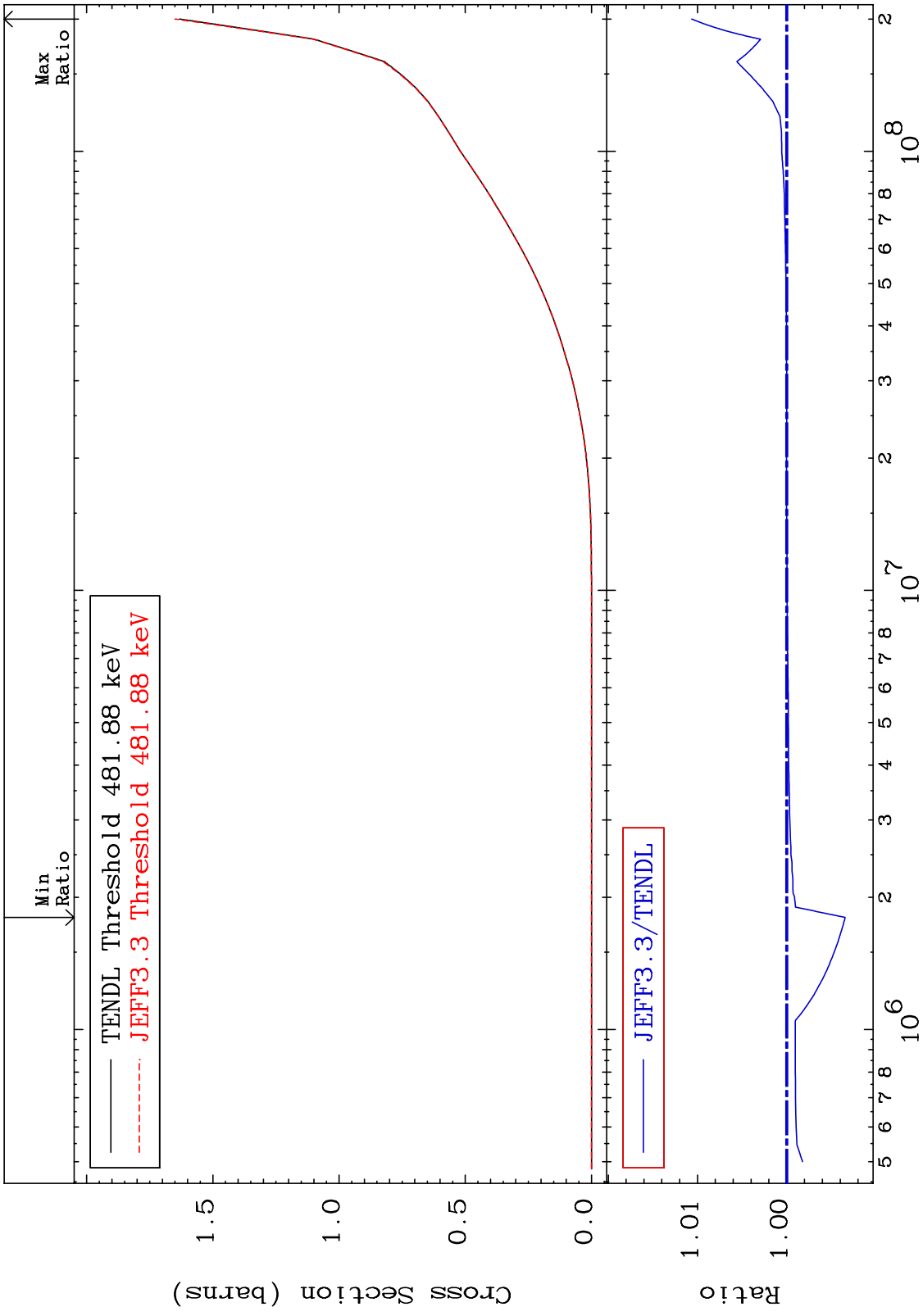
56

Incident Energy (eV)

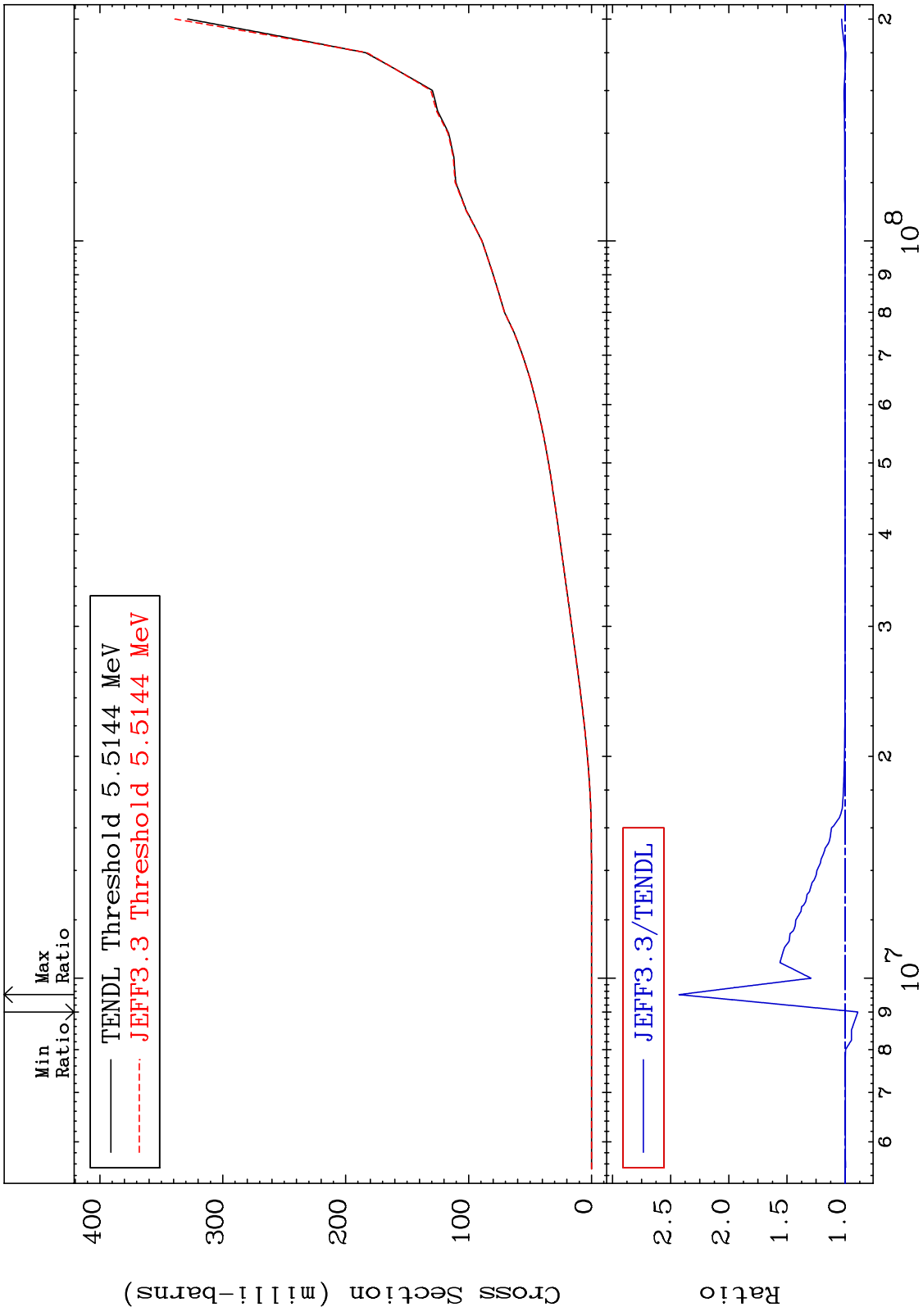
80-Hg-201

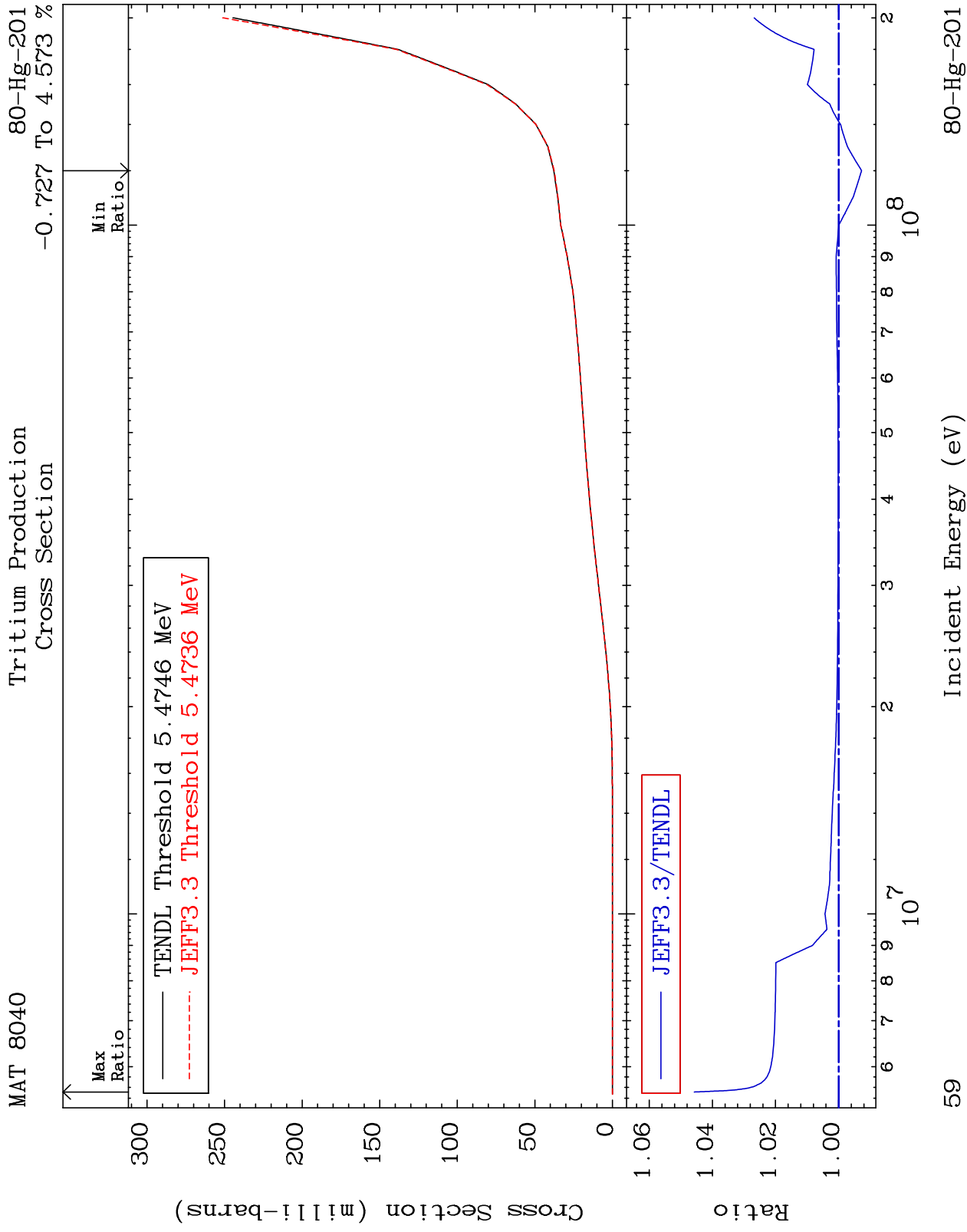


MAT 8040 Hydrogen Production Cross Section 80-Hg-201 -0.655 To 1.065 %



MAT 8040 Deuterium Production Cross Section 80-Hg-201 -10.91 To 142.8 %

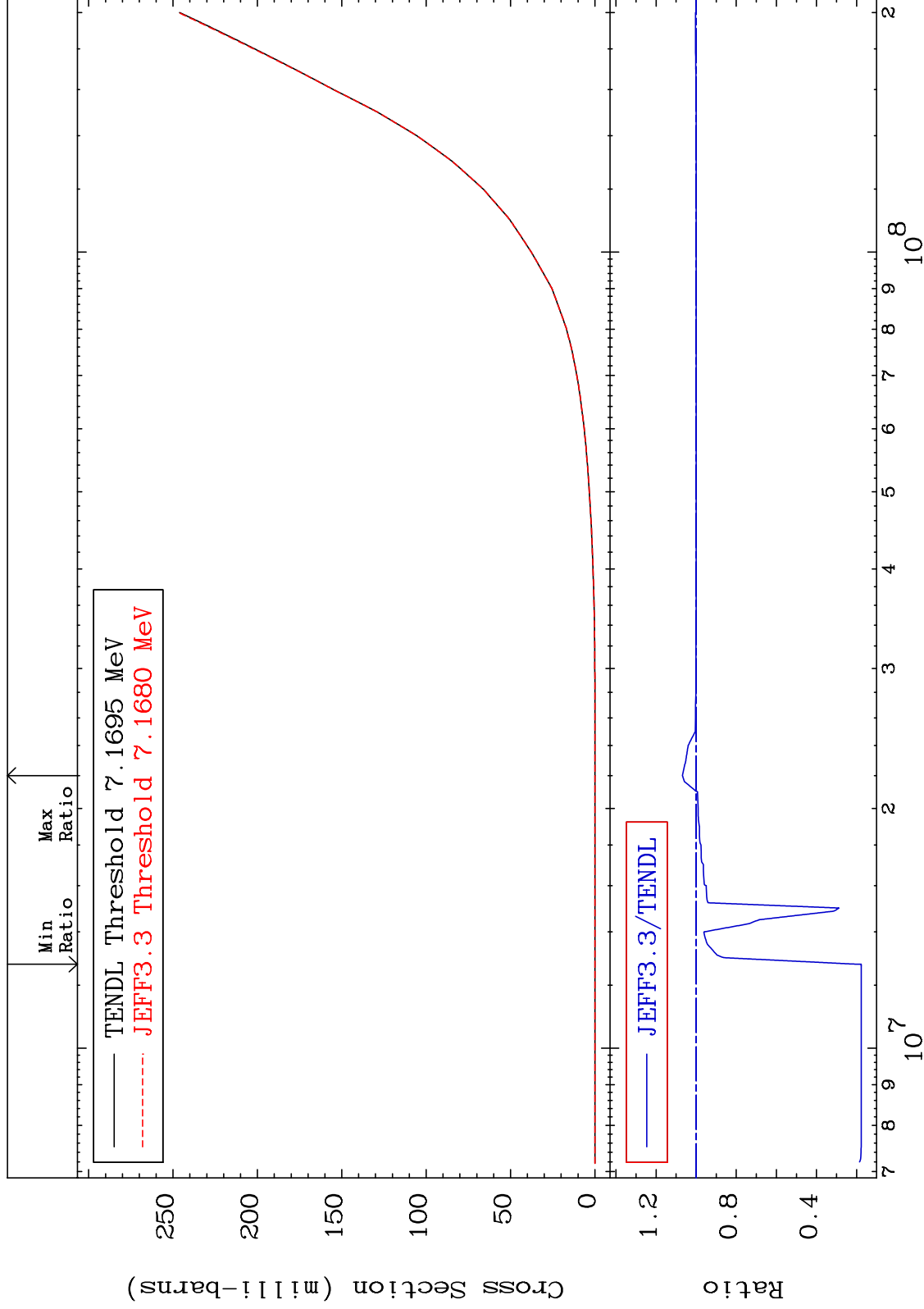




MAT 8040

He-3 Production  
Cross Section

80-Hg-201  
-82.35 To 6.836 %

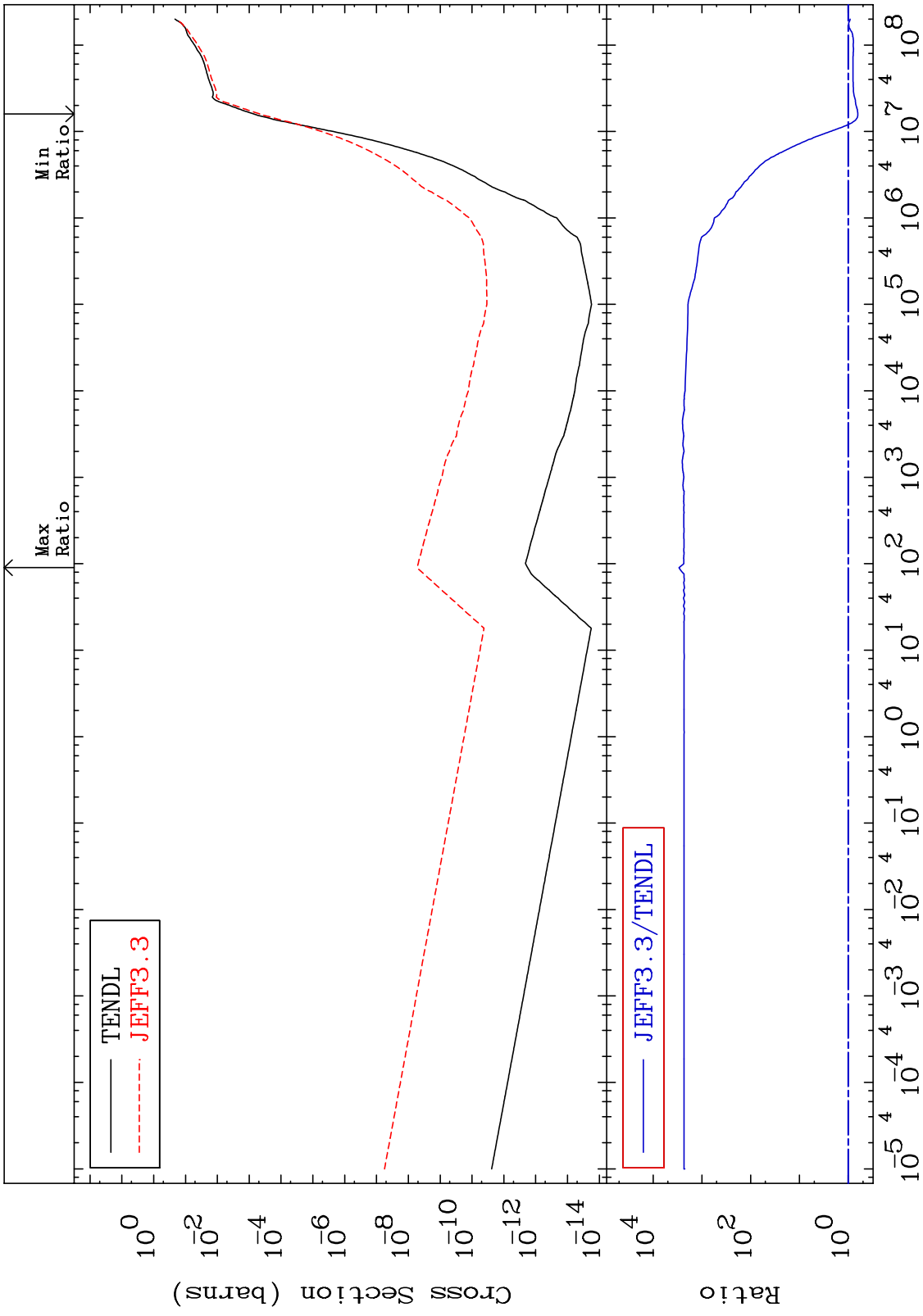


60

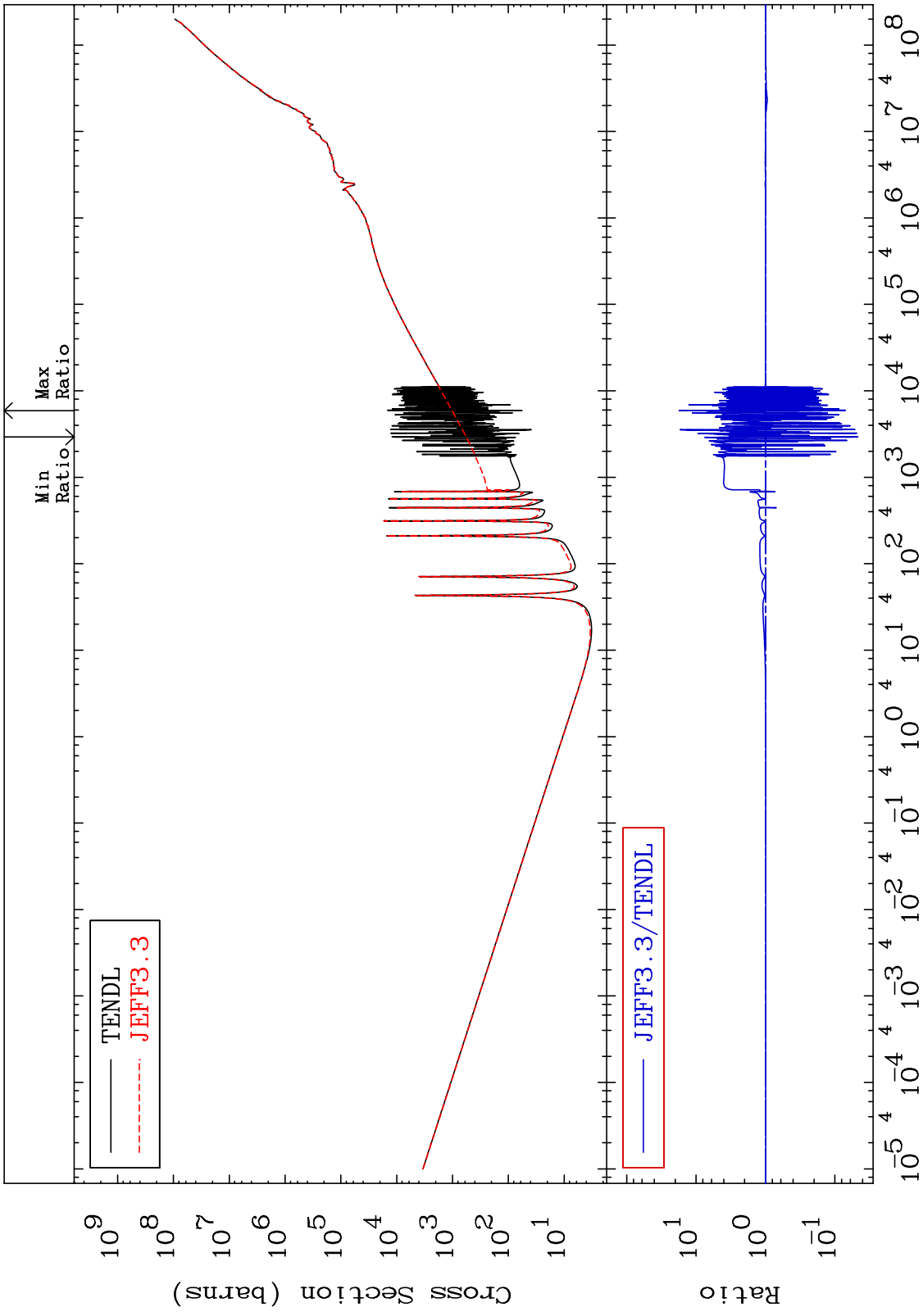
Incident Energy (eV)

80-Hg-201

MAT 8040      He-4 Production Cross Section      80-Hg-201  
 -36.32 To 9999. %



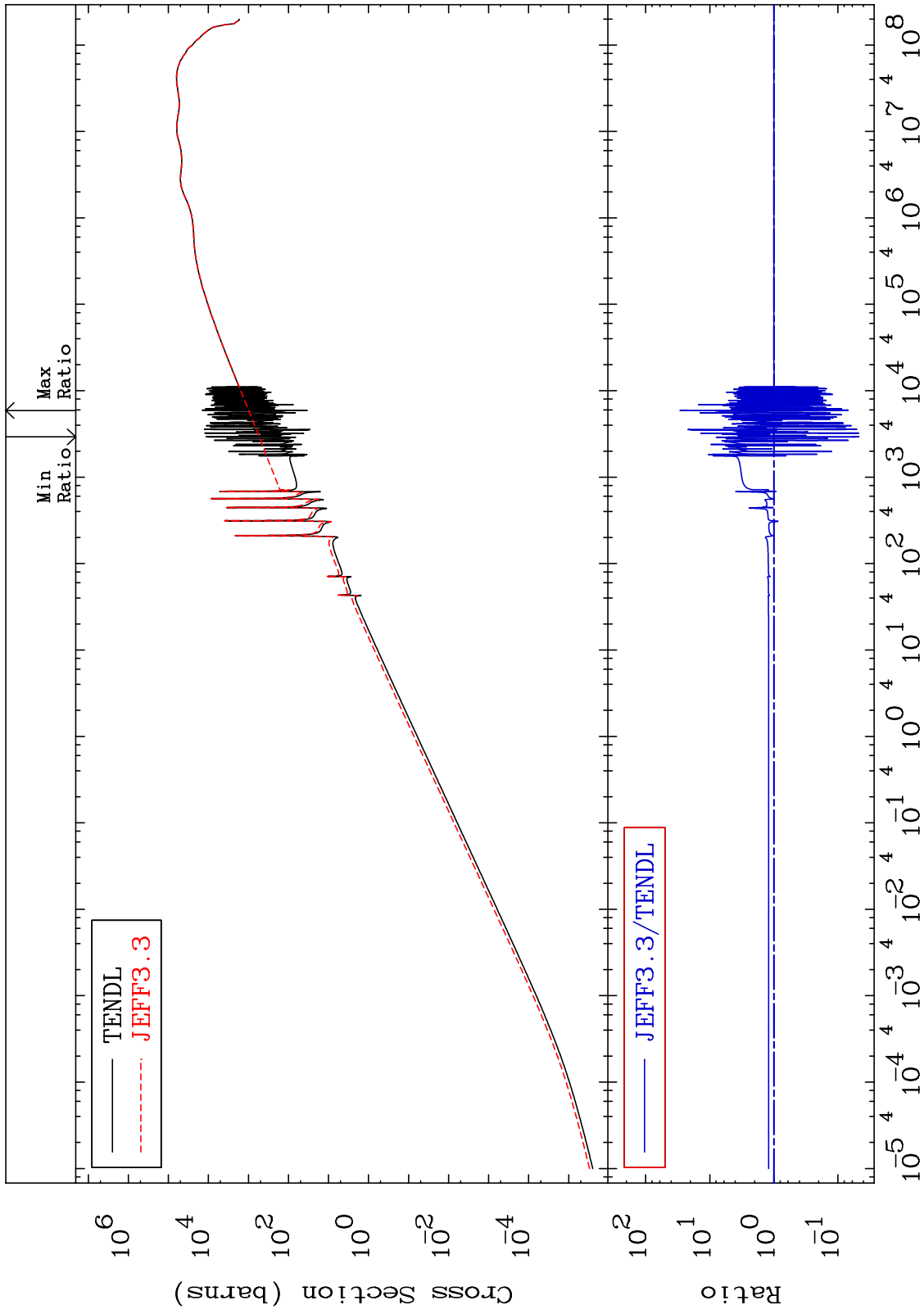
MAT 8040      Kerma total (eV-barns)      80-Hg-201  
 Cross Section      -95.33 To 1663. %



MAT 8040

Kerma elastic  
Cross Section

80-Hg-201  
-95.28 To 2793. %



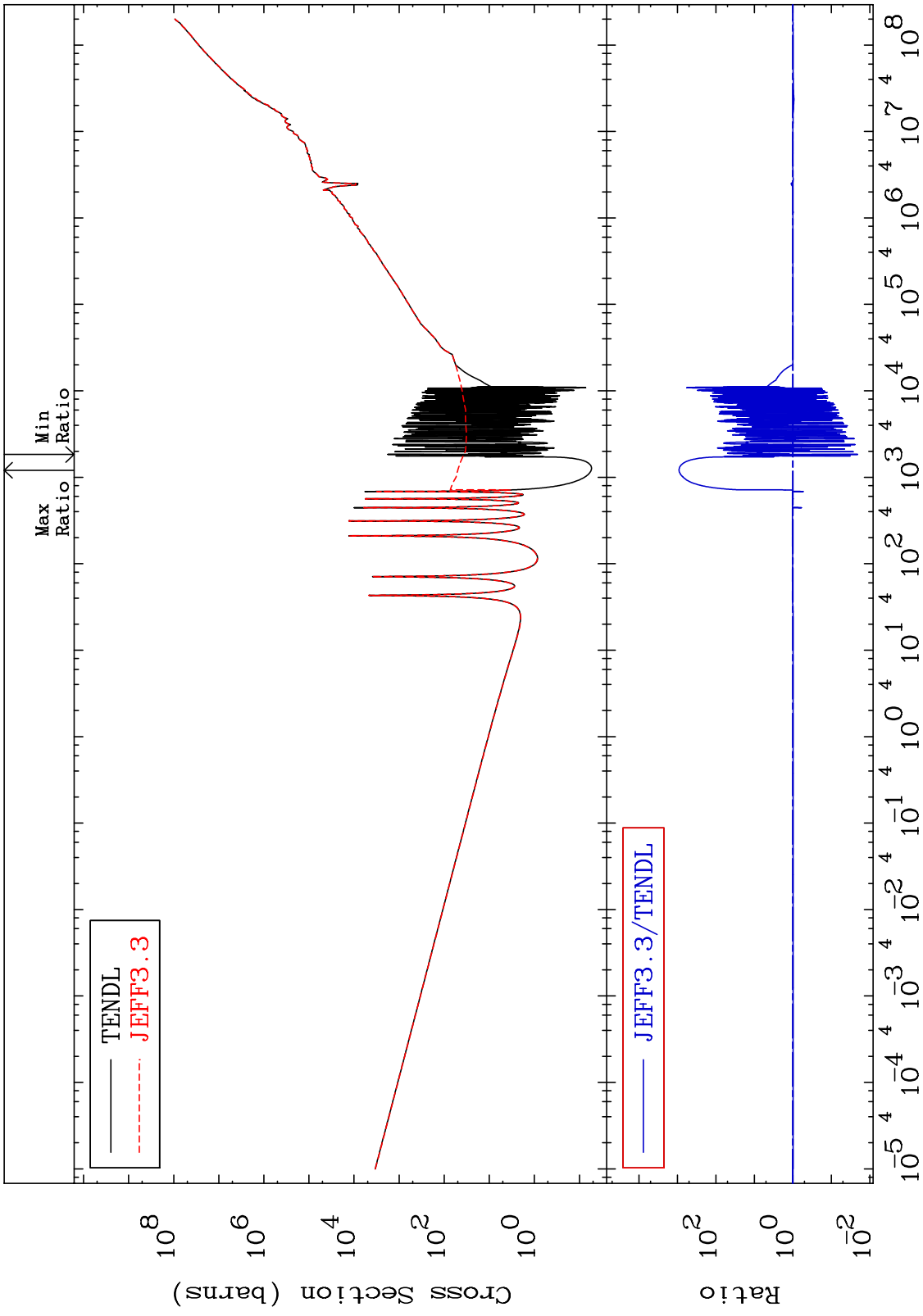
63

Incident Energy (eV)

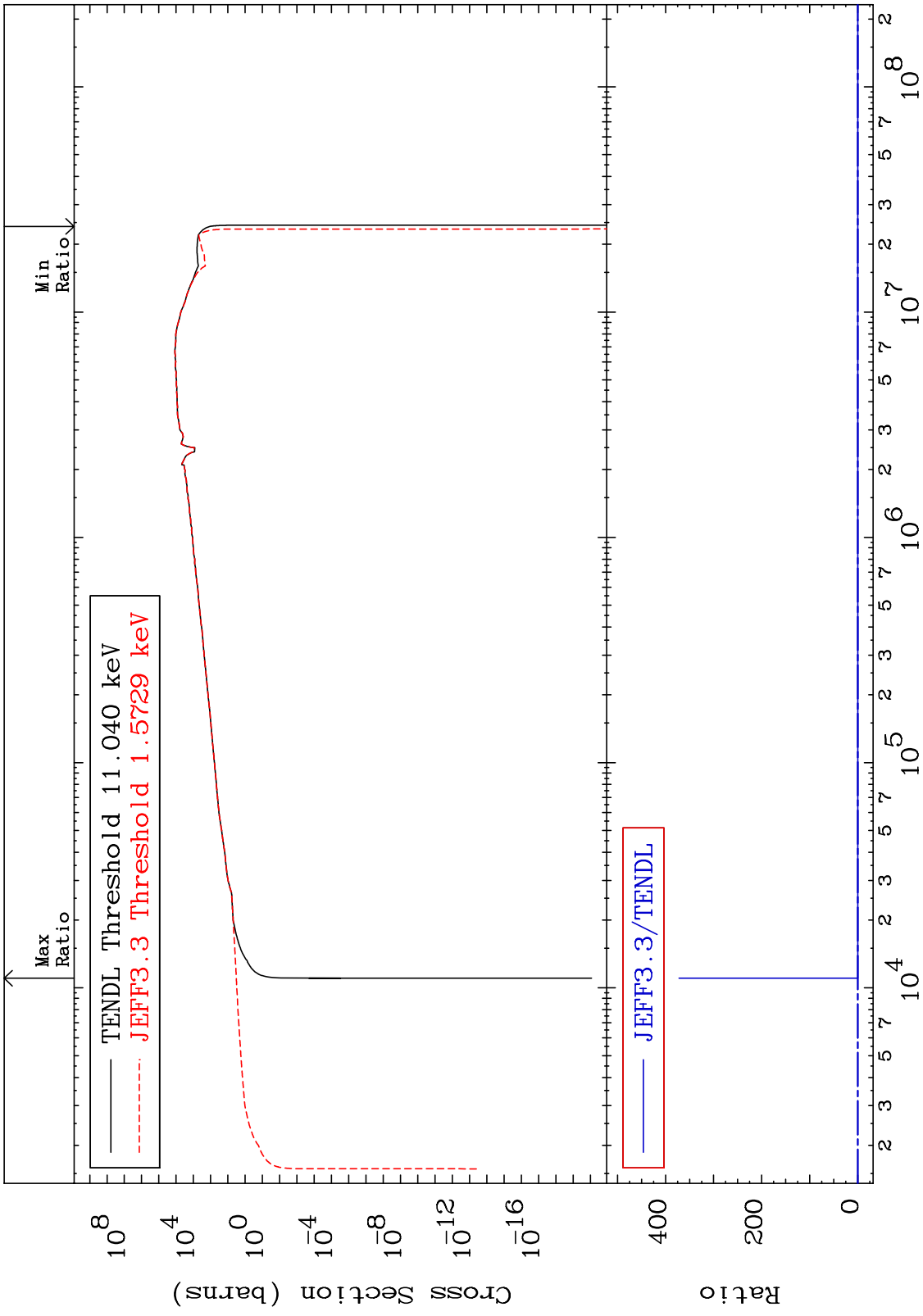
80-Hg-201



MAT 8040 Kerma non-elastic (all but mt.2) 80-Hg-201  
 Cross Section -97.95 To 9999. %



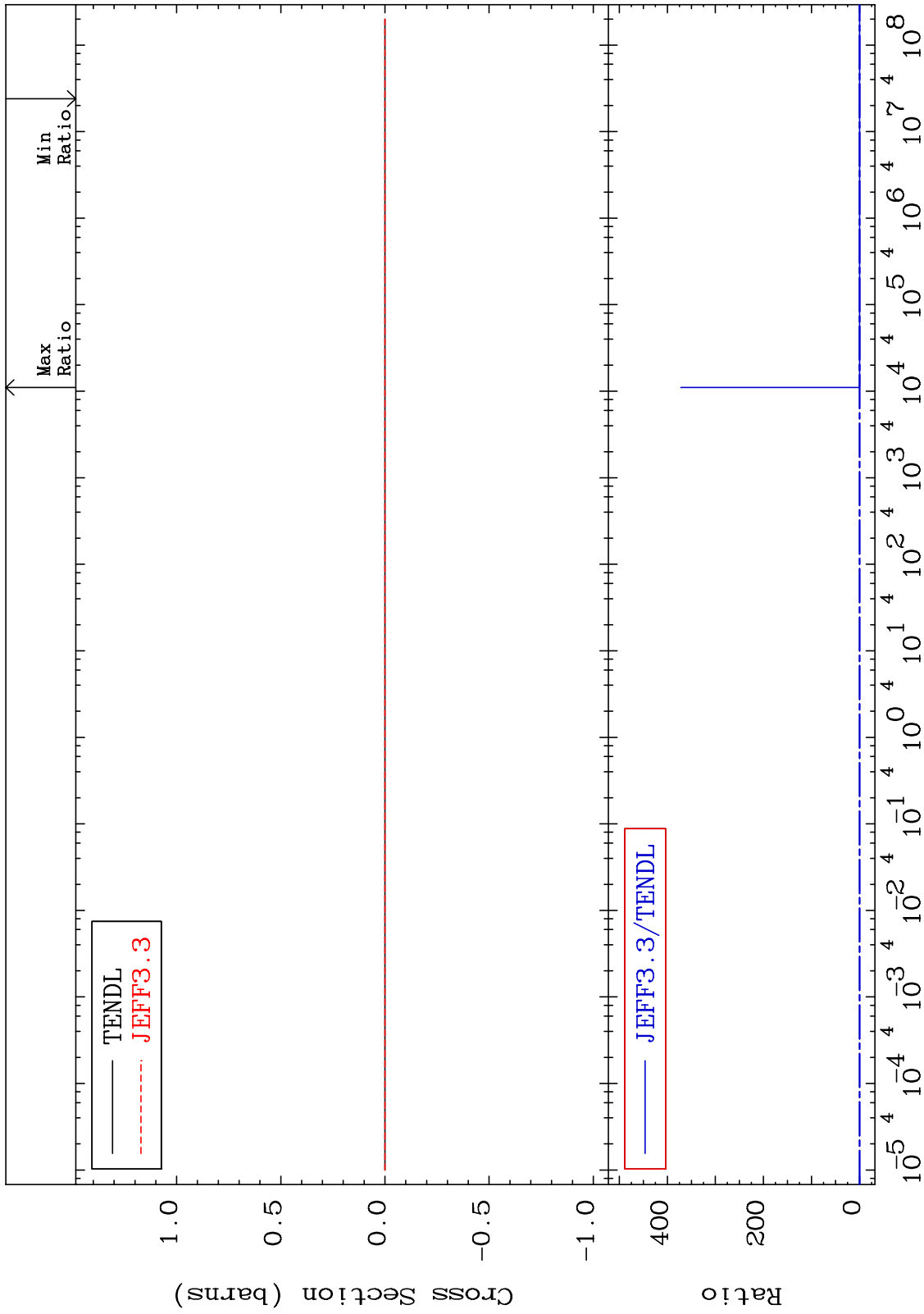
MAT 8040 Kerma inelastic (mt51-91) 80-Hg-201  
 Cross Section -279.6 To 9999. %



MAT 8040

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

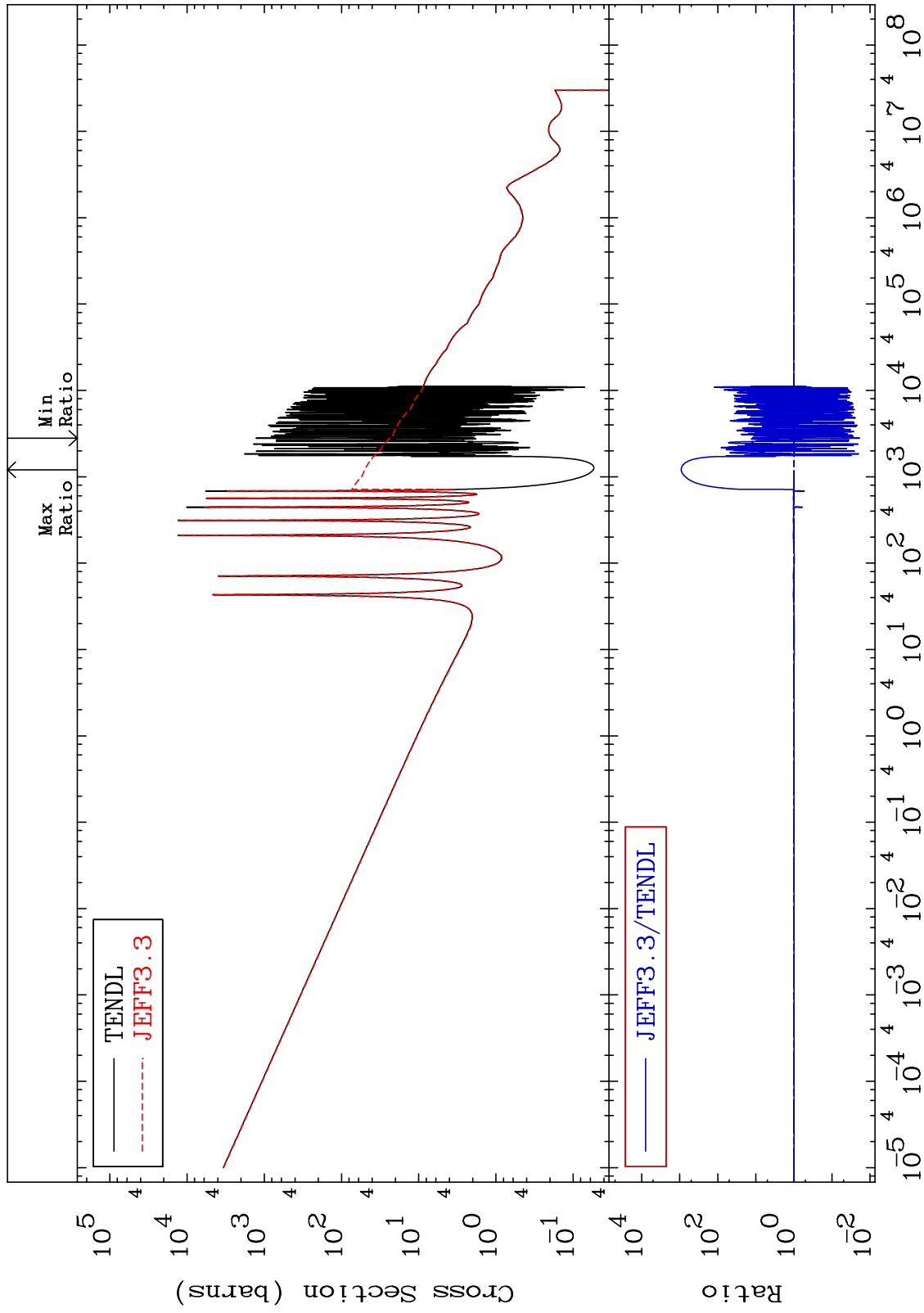
80-Hg-201  
-279.6 To 9999. %



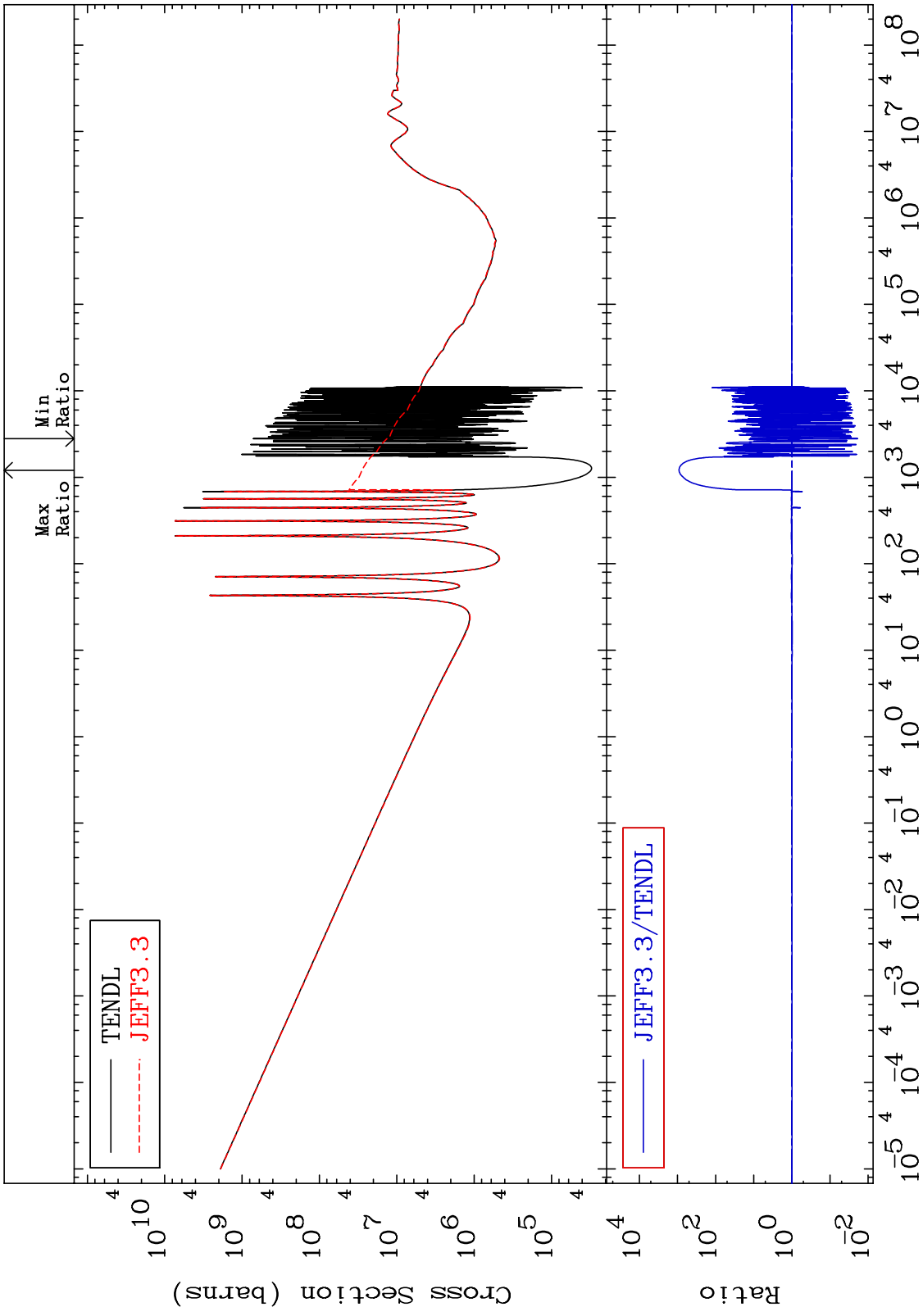
MAT 8040

Kerma capture (mt102)  
Cross Section

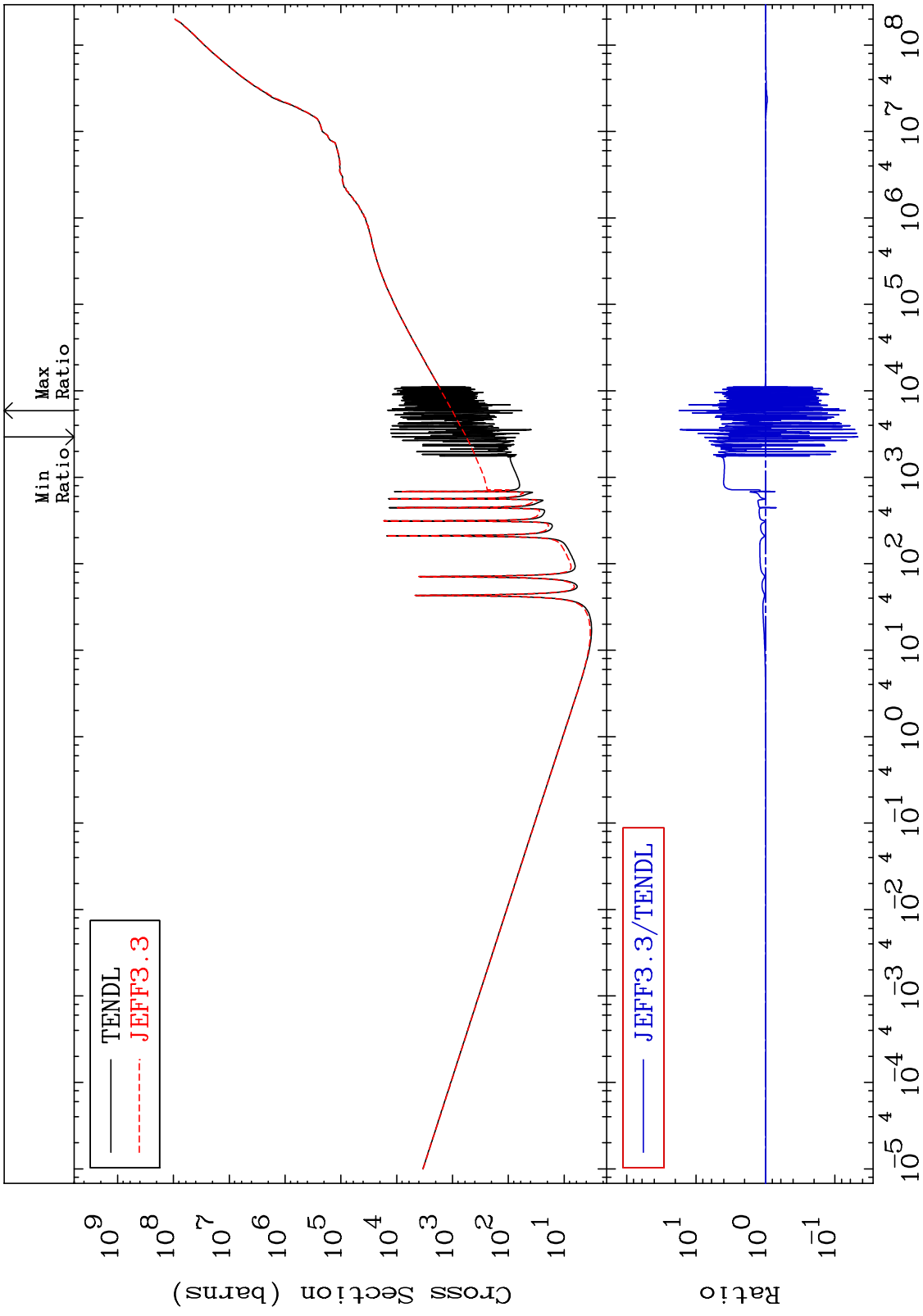
80-Hg-201  
-98.13 To 9999. %



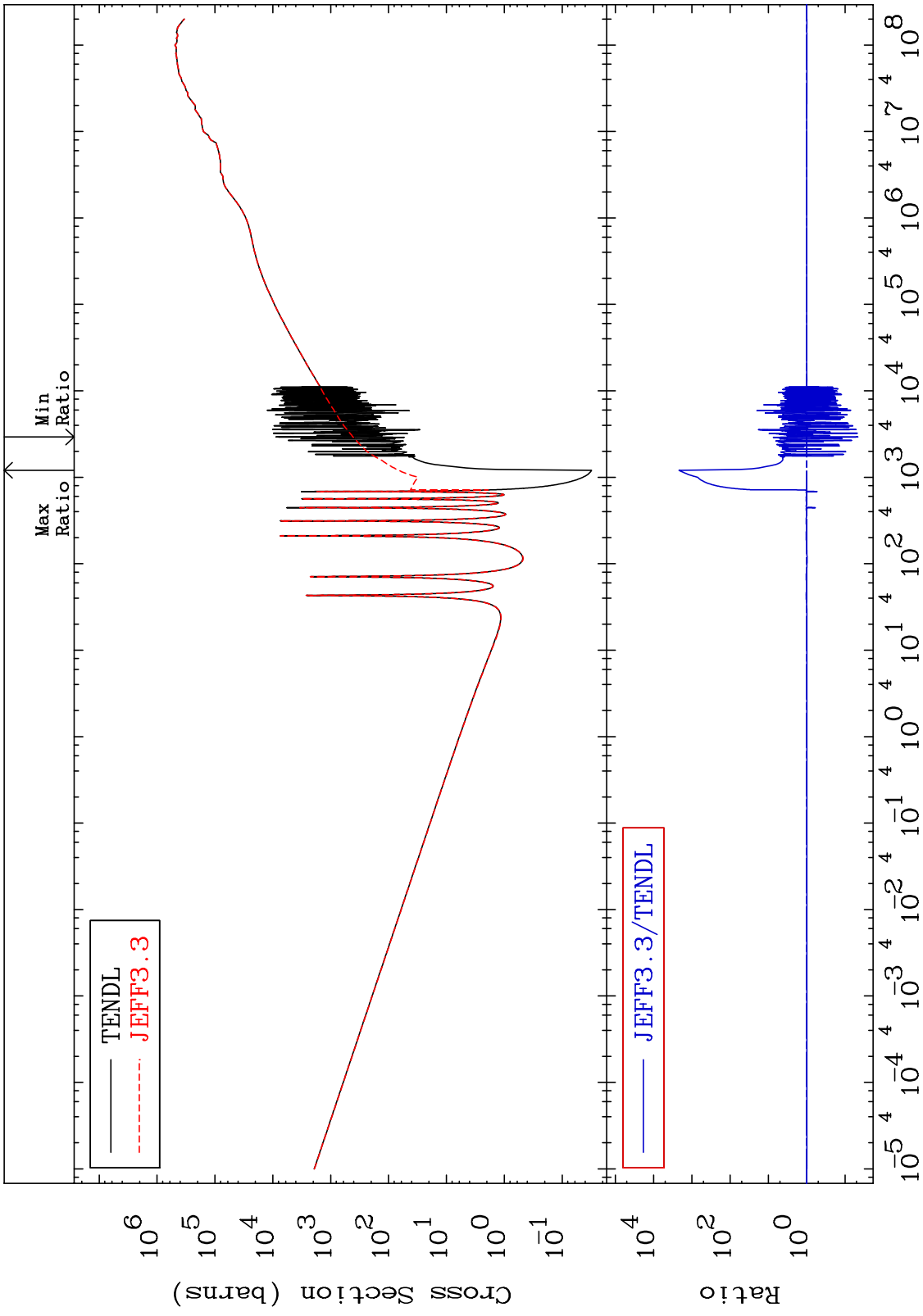
MAT 8040 80-Hg-201  
 Total photon (eV-barns) -98.14 To 9999. %  
 Cross Section



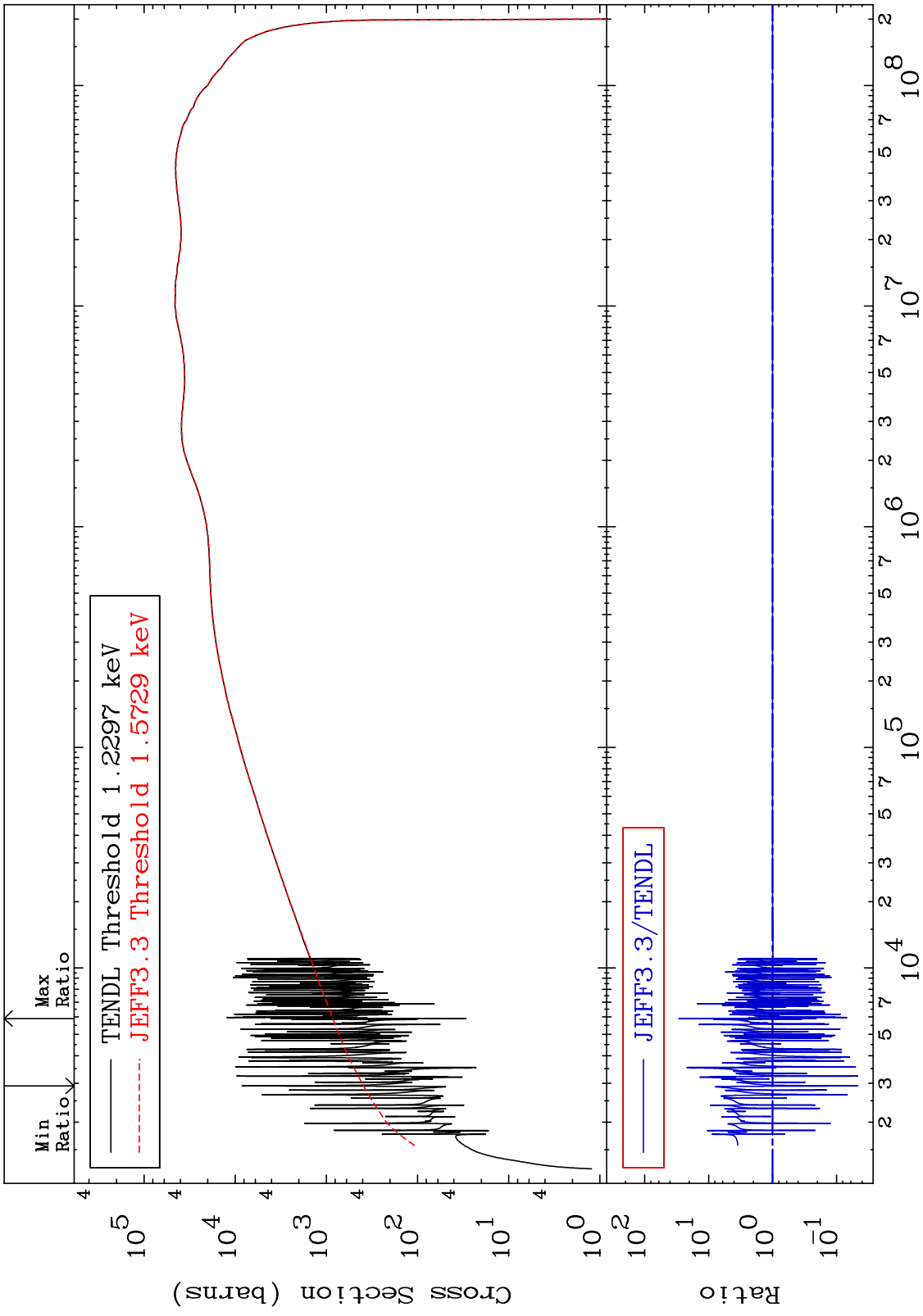
MAT 8040 Total kinematic kerma (high limit) 80-Hg-201  
Cross Section -95.33 To 1663. %



MAT 8040      Dpa total (eV-barns)      80-Hg-201  
 Cross Section      -95.38 To 9999. %

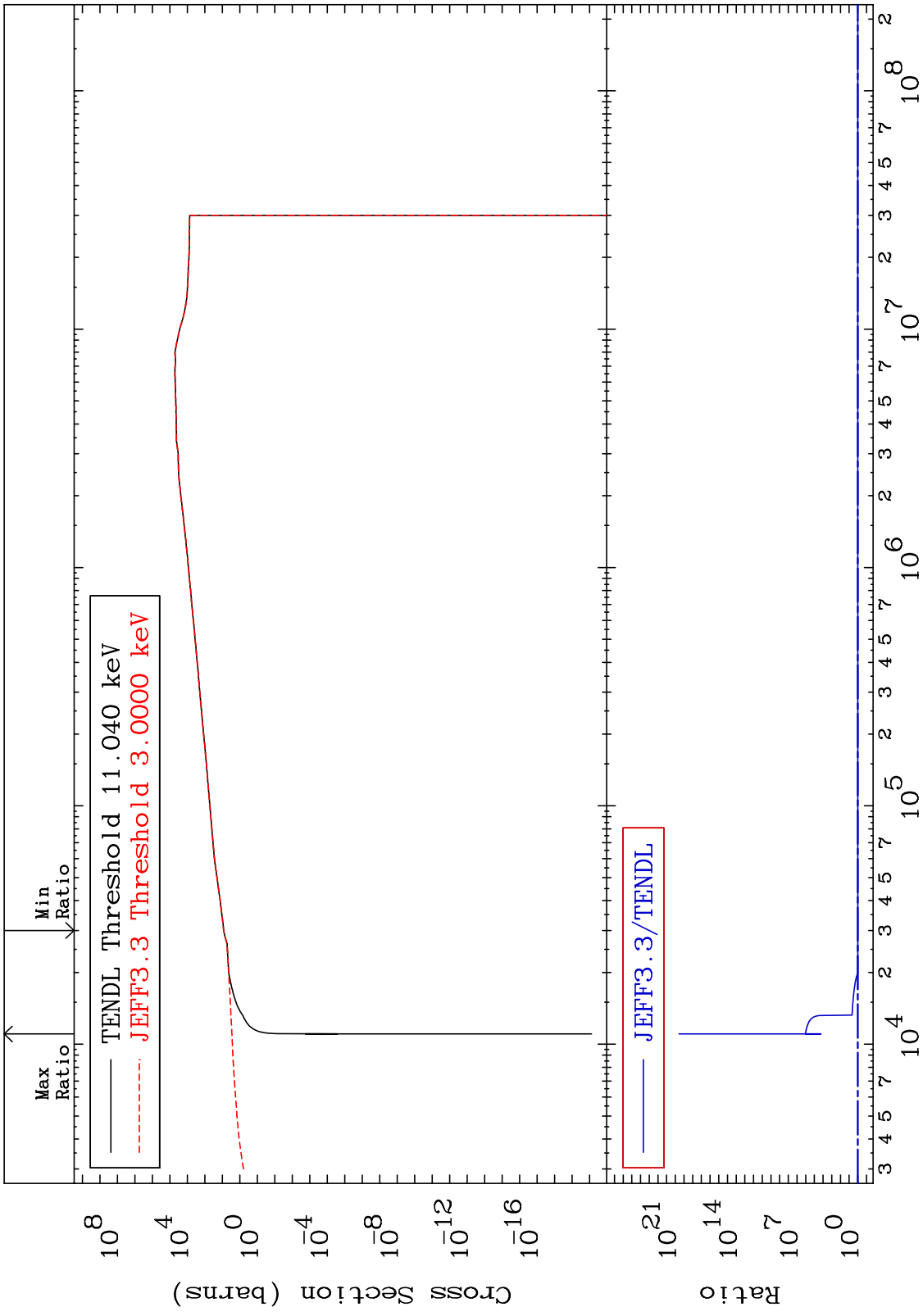


70      Incident Energy (eV)      80-Hg-201

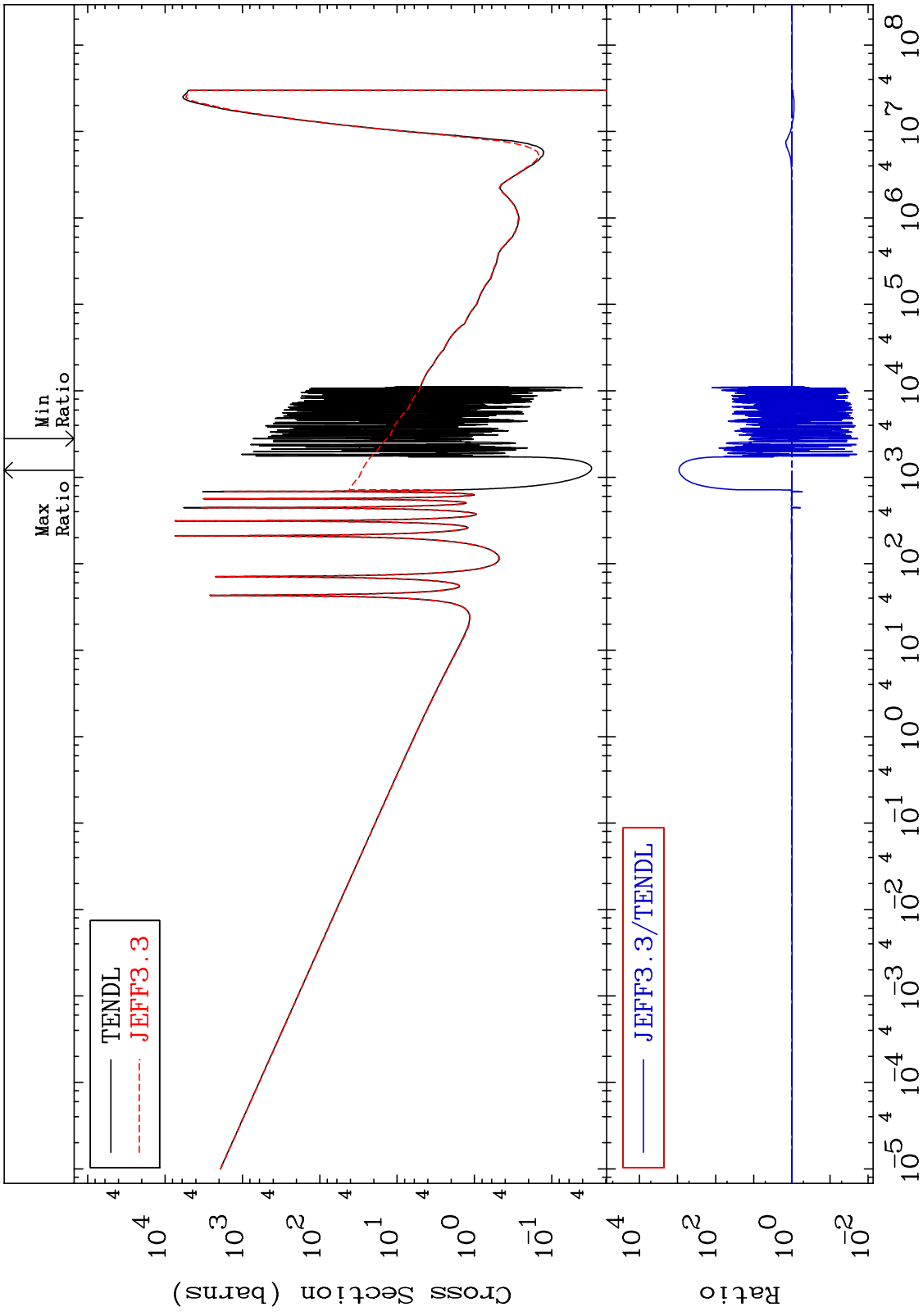




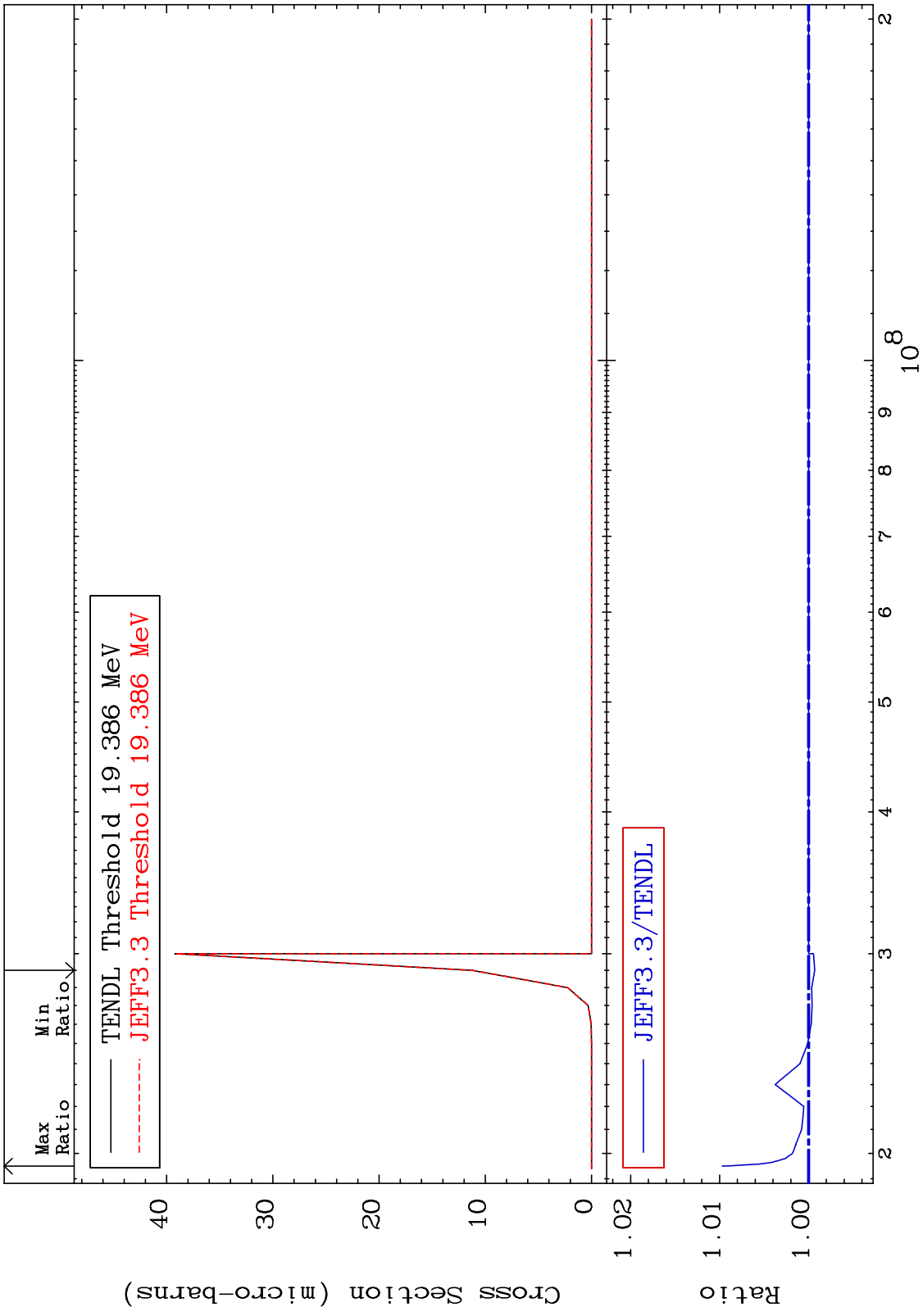
MAT 8040 Dpa inelastic (mt51-91) 80-Hg-201  
 Cross Section -0.143 To 9999. %



MAT 8040      Dpa disappearance (mt102 -120)      80-Hg-201  
 Cross Section      -98.13 To 9999. %



MAT 8040 (n,2n) d:79-Au-198g 80-Hg-201  
 Radionuclide Production Cross Section -0.069 To 0.971 %

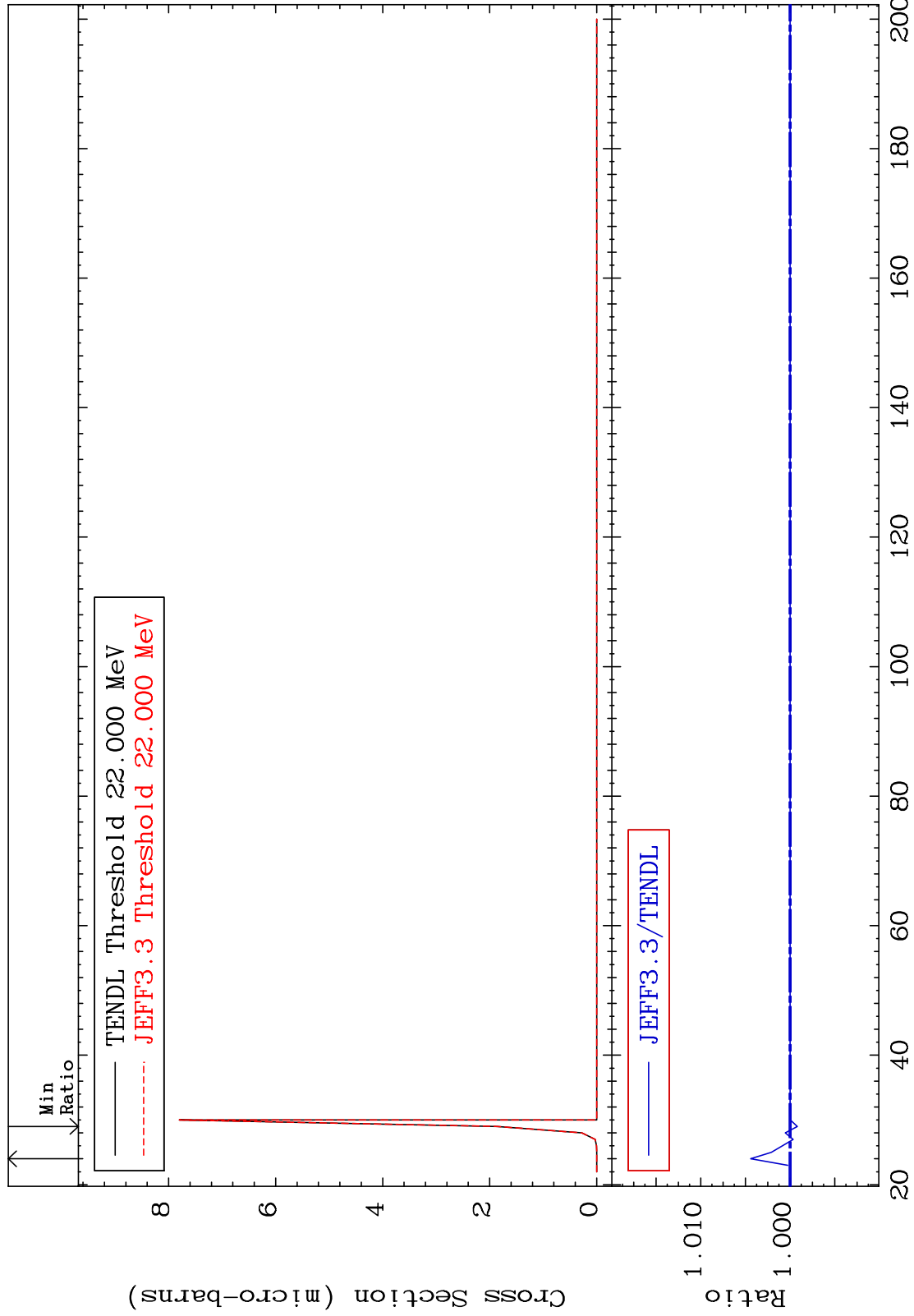


MAT 8040

(n,2n) d:79-Au-198m10

80-Hg-201

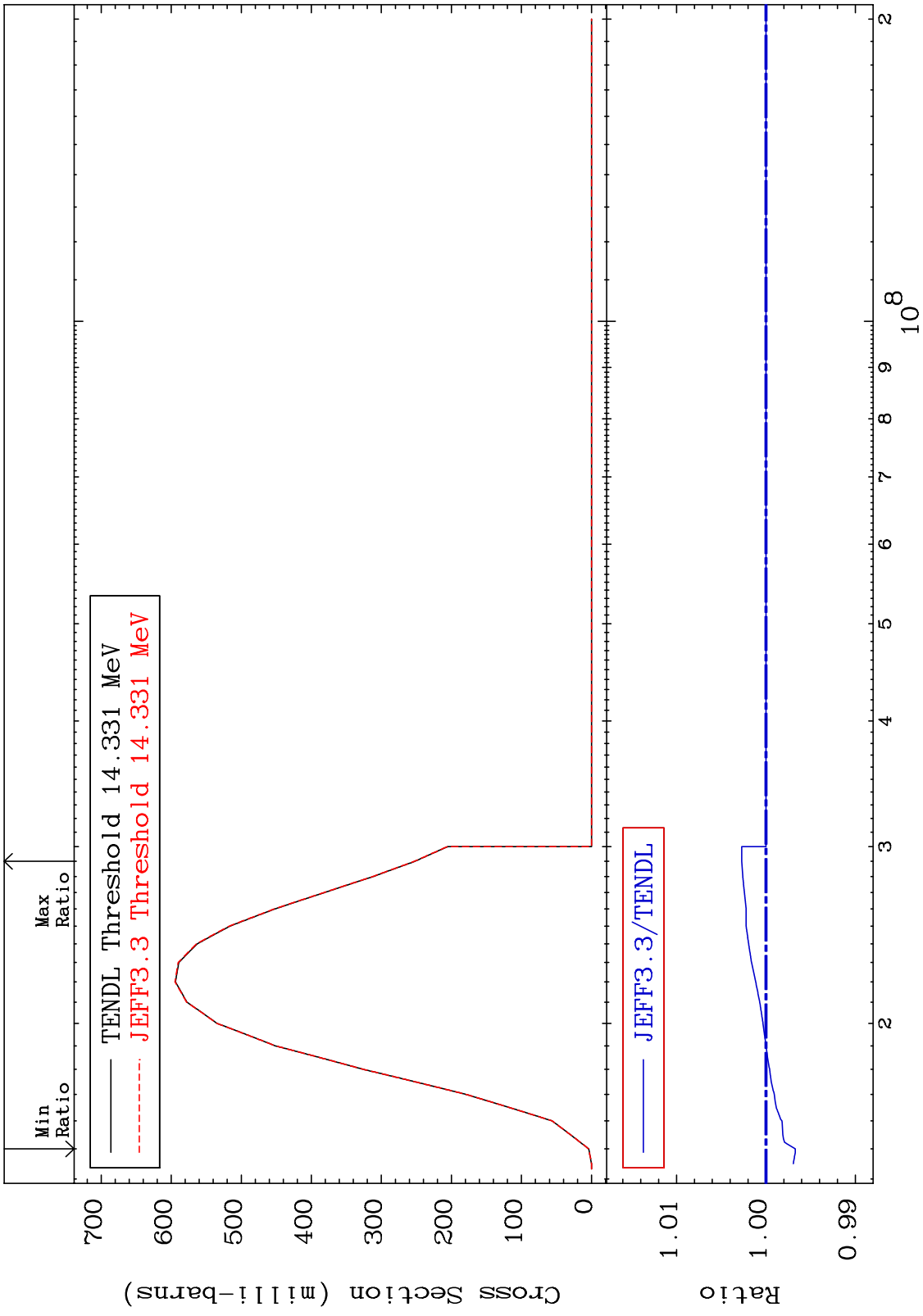
Radionuclide Production Cross Section -0.081 To 0.442 %



75

80-Hg-201

MAT 8040 (n,3n):80-Hg-199g 80-Hg-201  
 Radionuclide Production Cross Section -0.327 To 0.271 %

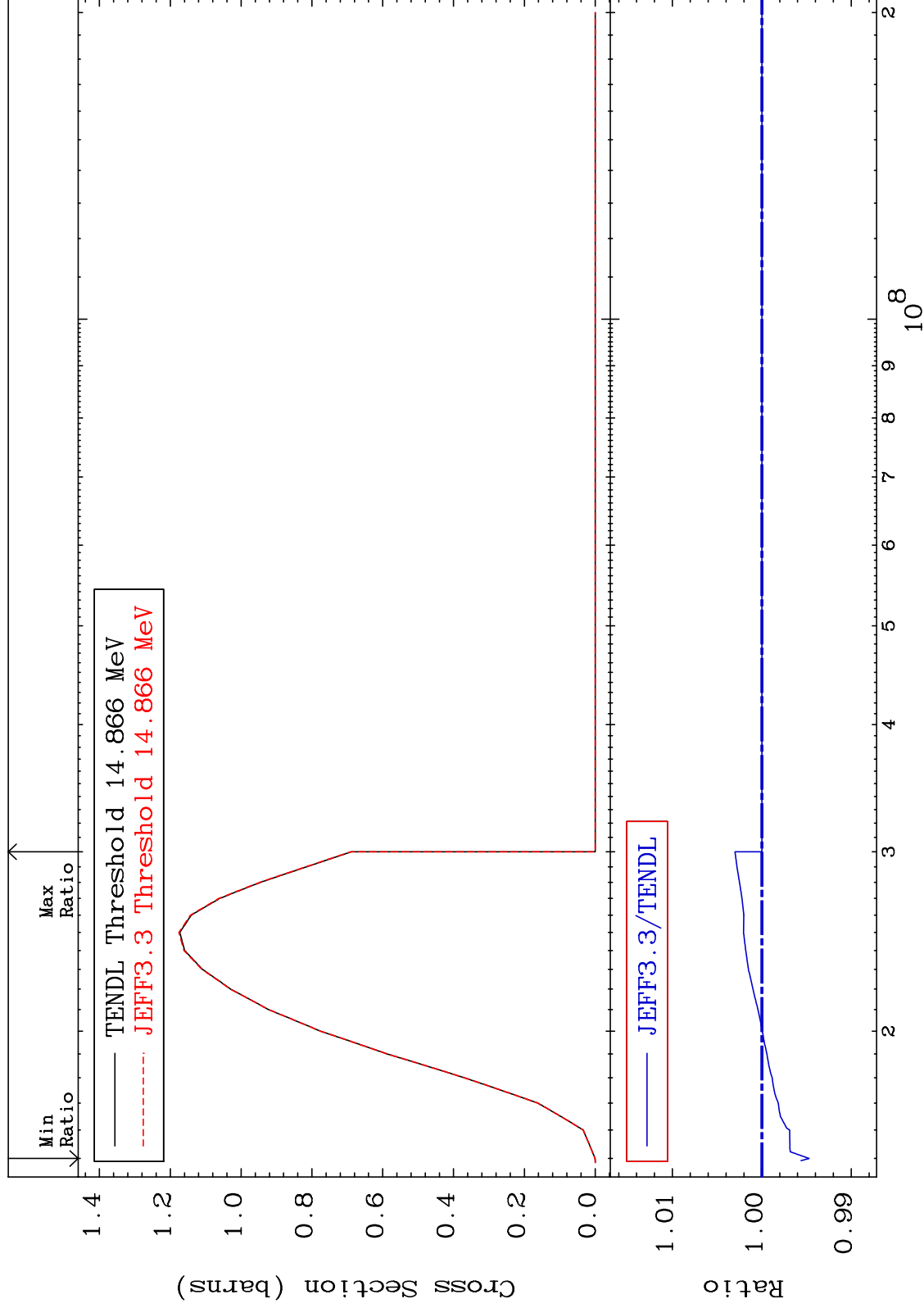


MAT 8040

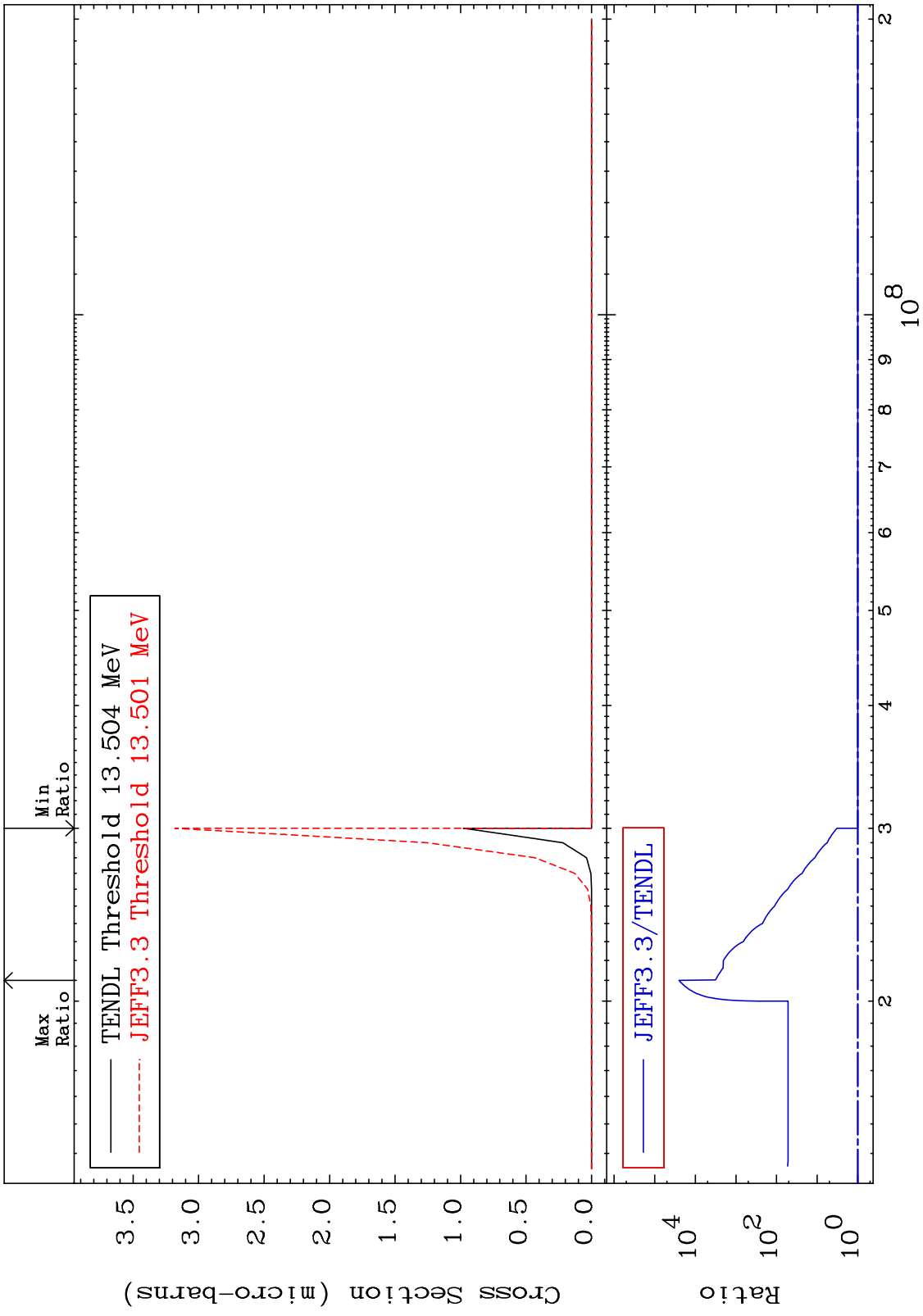
(n,3n):80-Hg-199m7

80-Hg-201

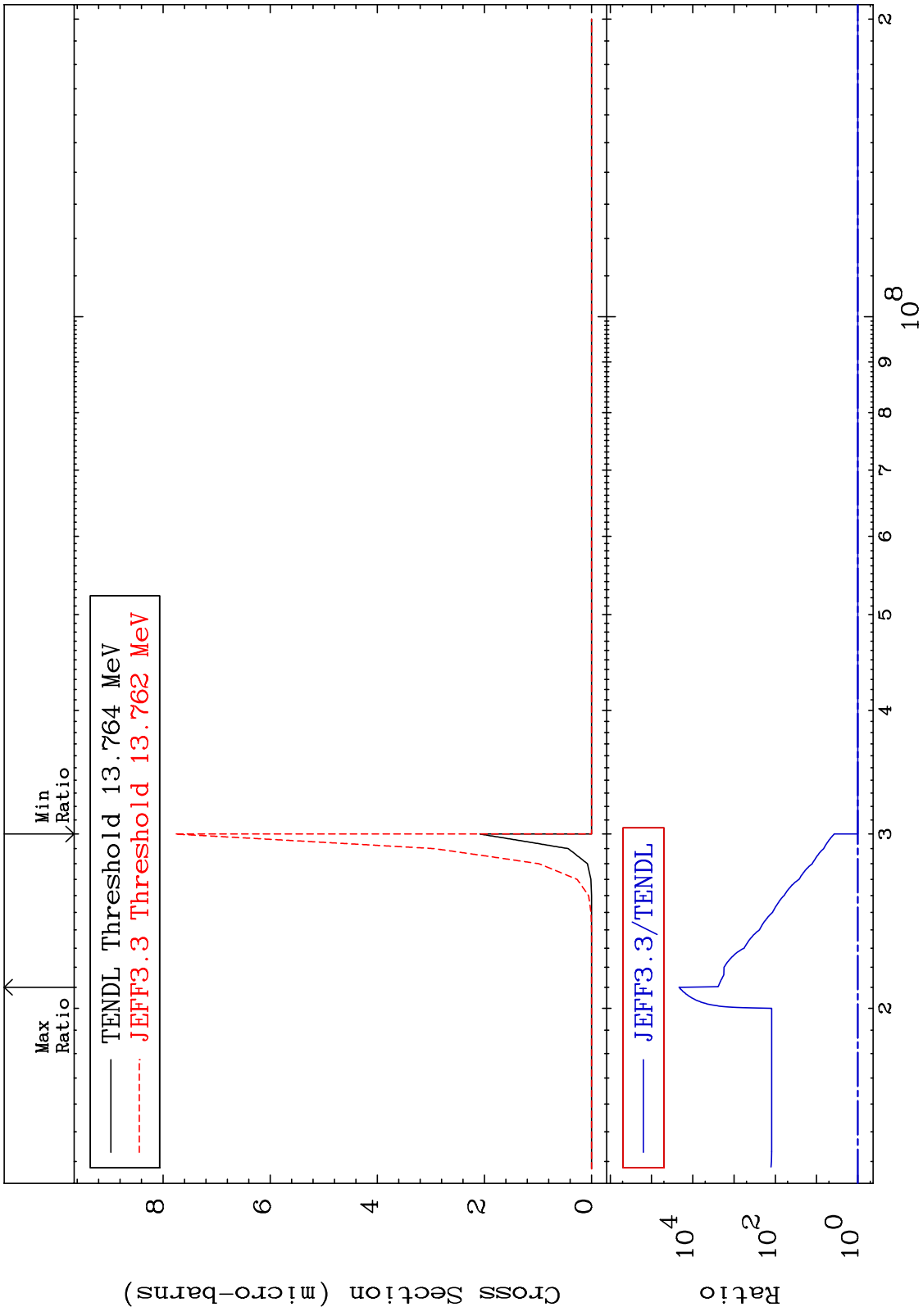
Radionuclide Production Cross Section -0.528 To 0.300 %



MAT 8040 (n,3n)  $\alpha$ : 78-Pt-195g 80-Hg-201  
 Radionuclide Production Cross Section 0.000 To 9999. %

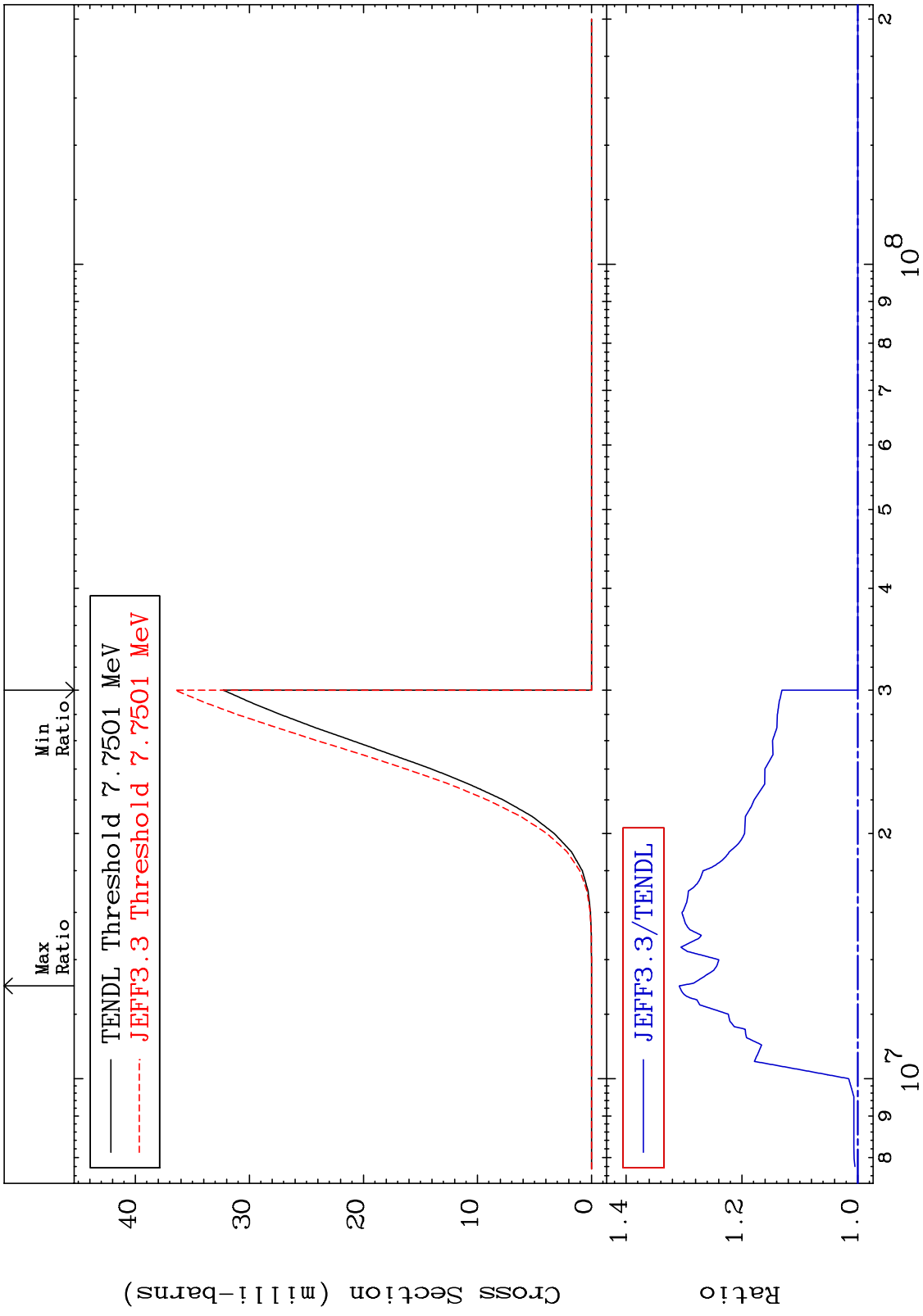


MAT 8040 (n,3n)  $\alpha$ :78-Pt-195m7 80-Hg-201  
 Radionuclide Production Cross Section 0.000 To 9999. %



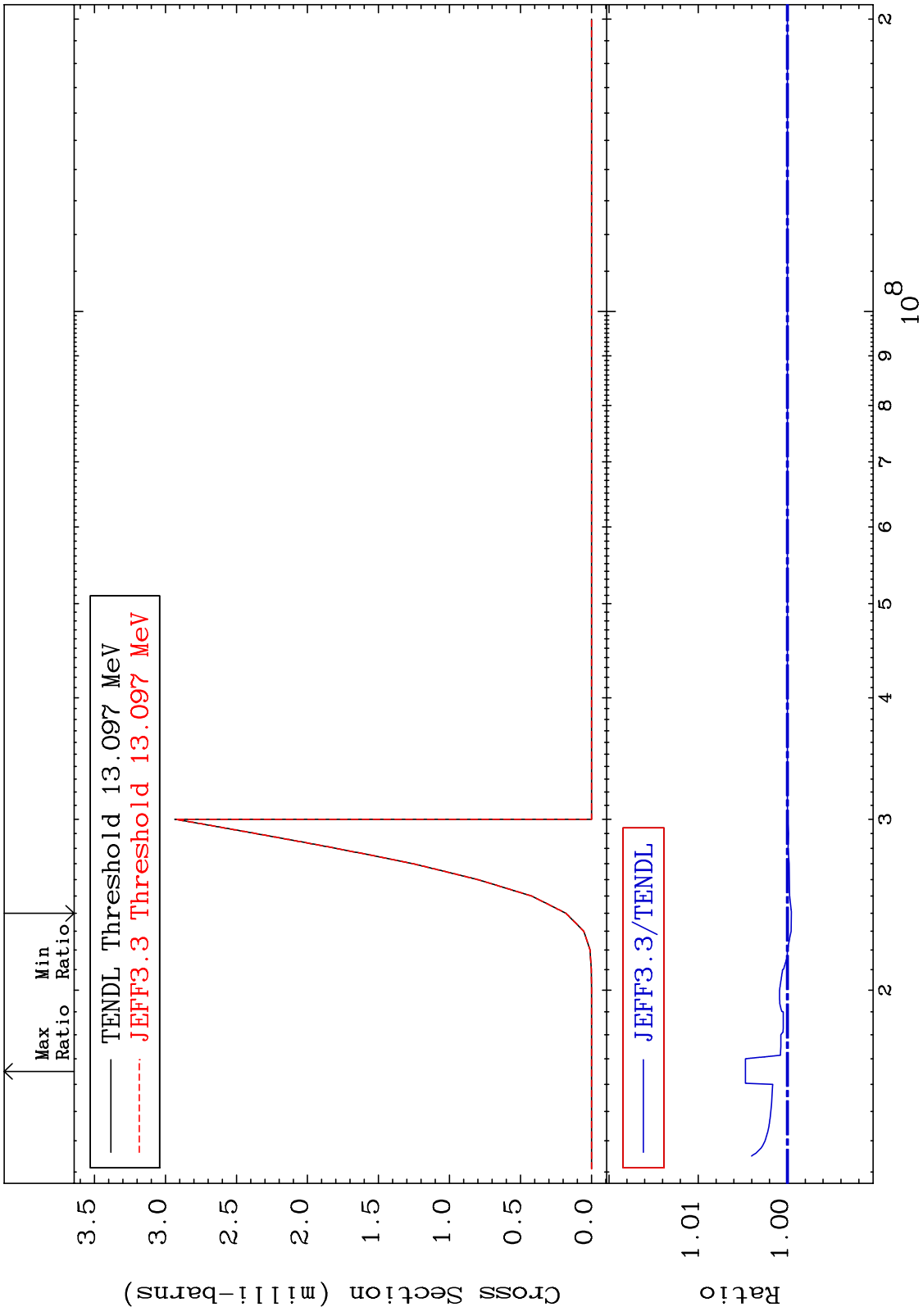


MAT 8040 (n, n') p: 79-Au-200g 80-Hg-201  
 Radionuclide Production Cross Section 0.000 To 30.86 %

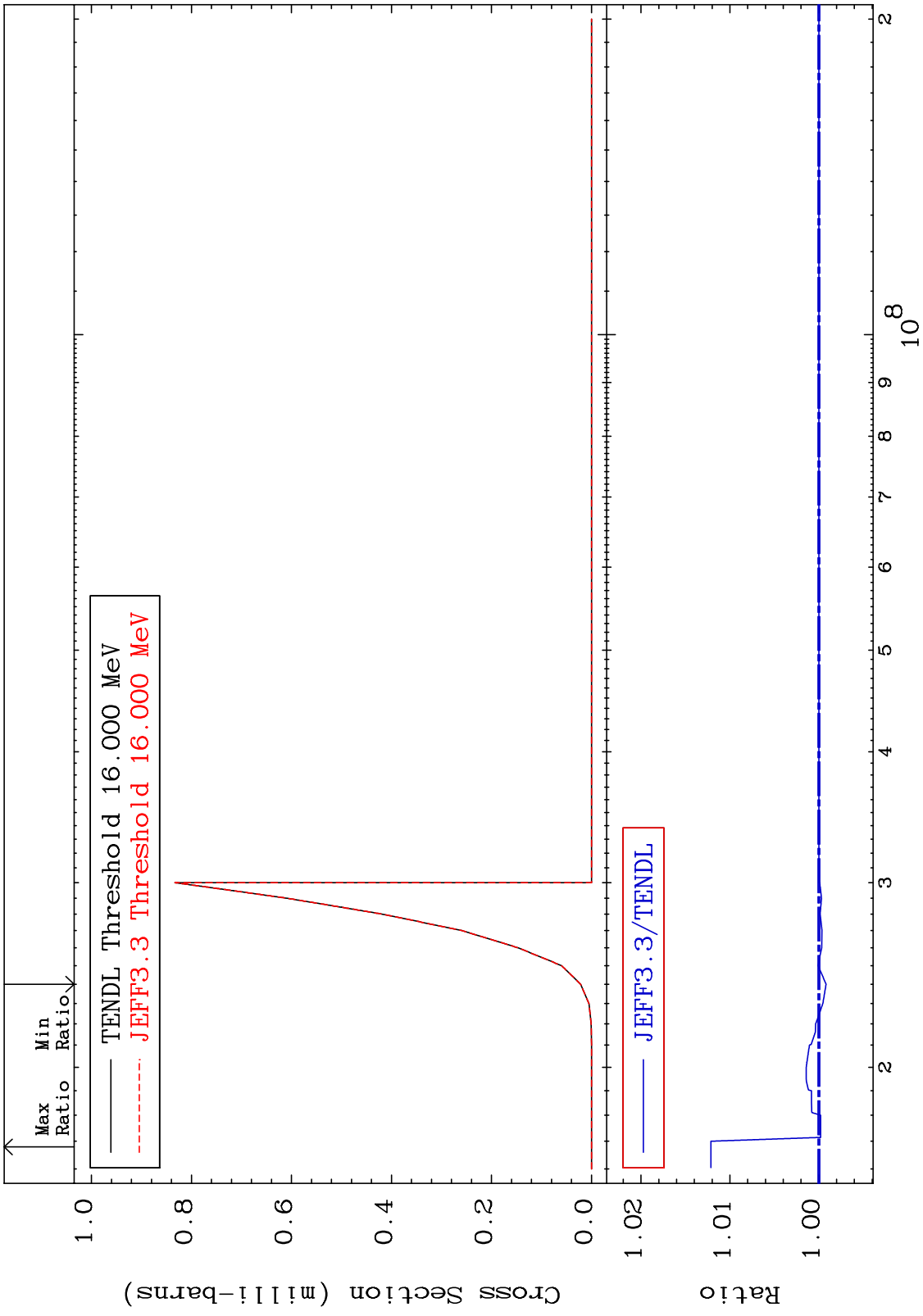


80 80-Hg-201

MAT 8040 (n,n') t:79-Au-198g 80-Hg-201  
 Radionuclide Production Cross Section -0.045 To 0.471 %



MAT 8040 (n,n') t:79-Au-198m10 80-Hg-201  
 Radionuclide Production Cross Section -0.082 To 1.215 %

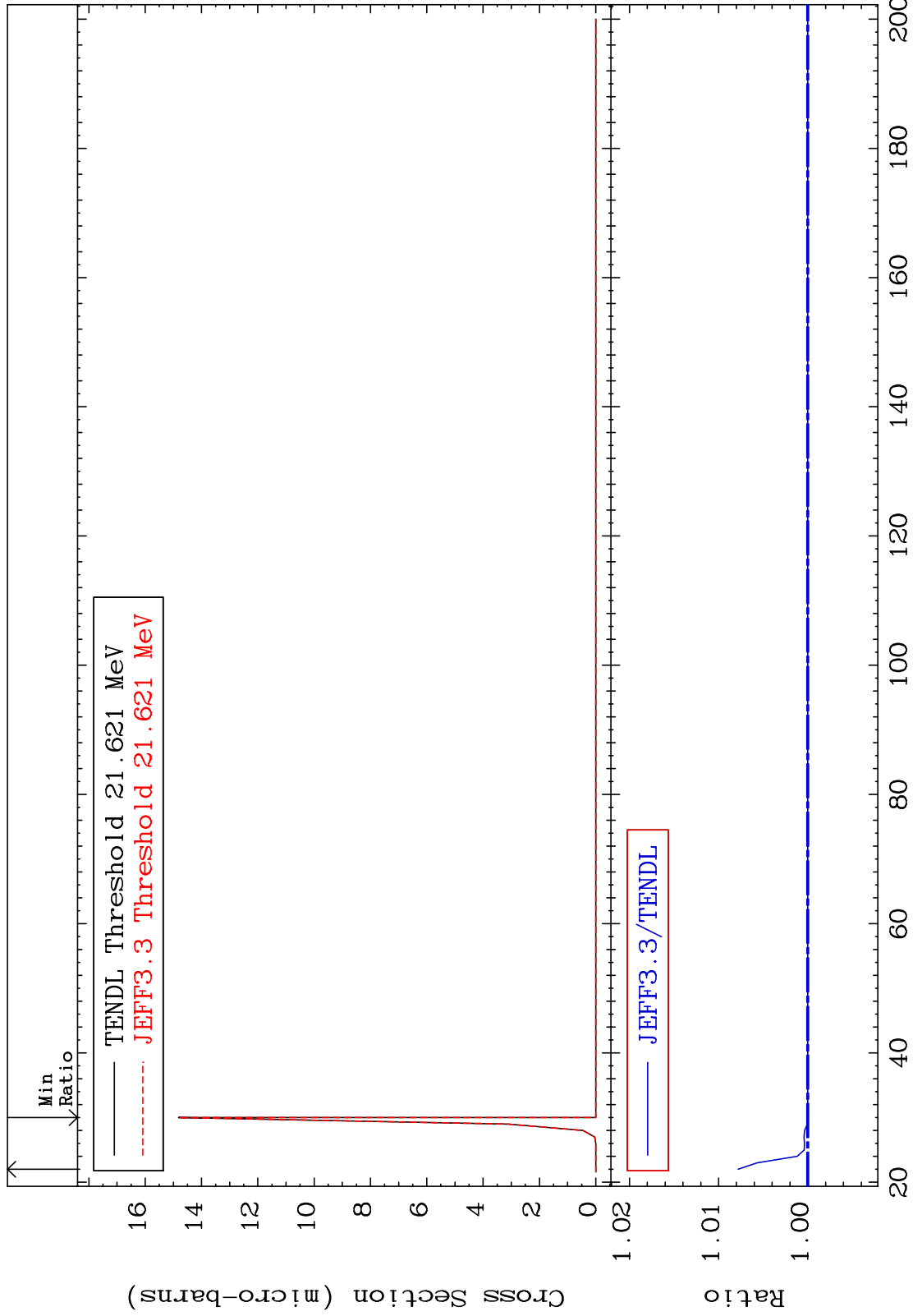


MAT 8040

(n,3n) p:79-Au-198g

80-Hg-201

Radionuclide Production Cross Section 0.000 To 0.781 %

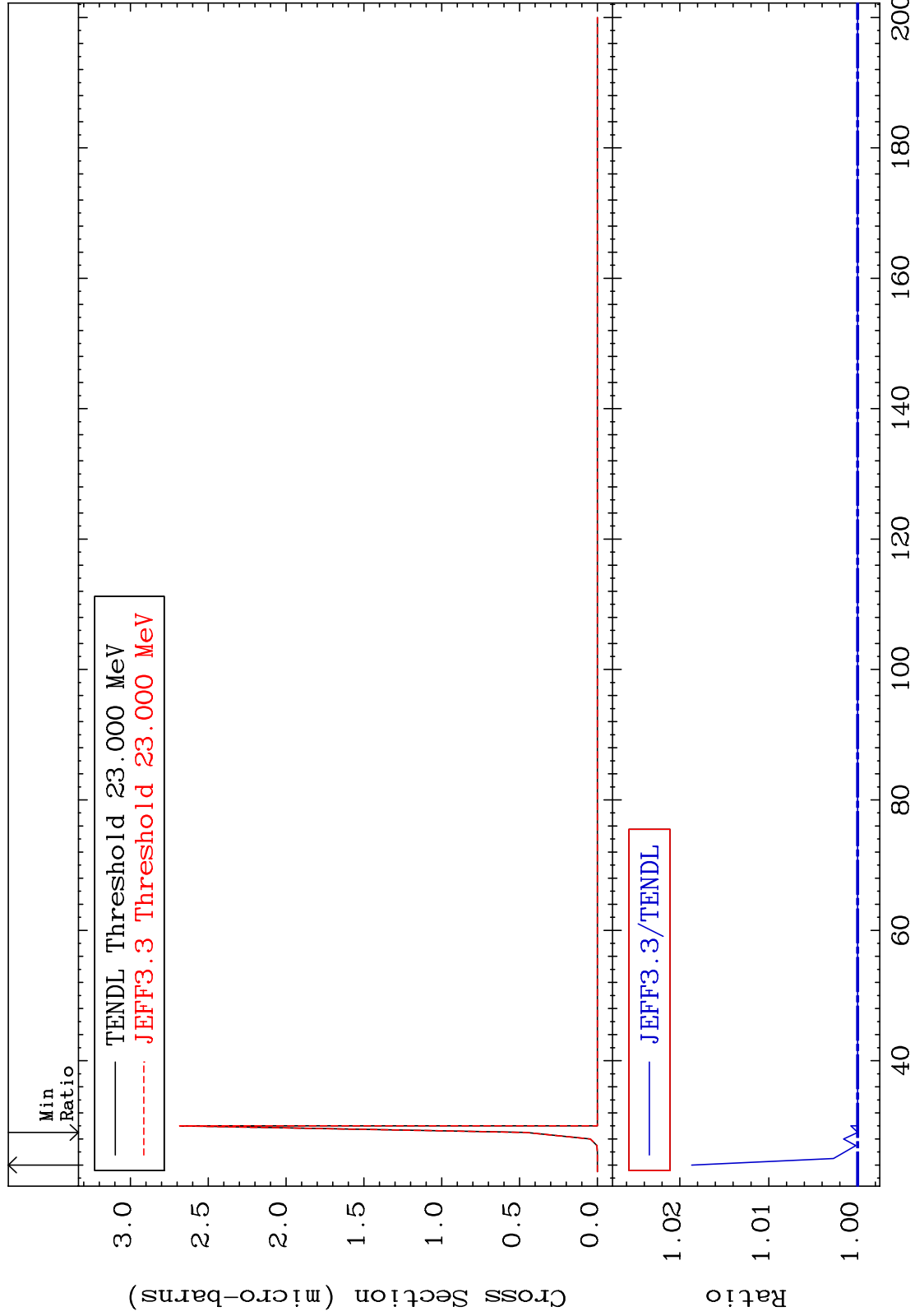


MAT 8040

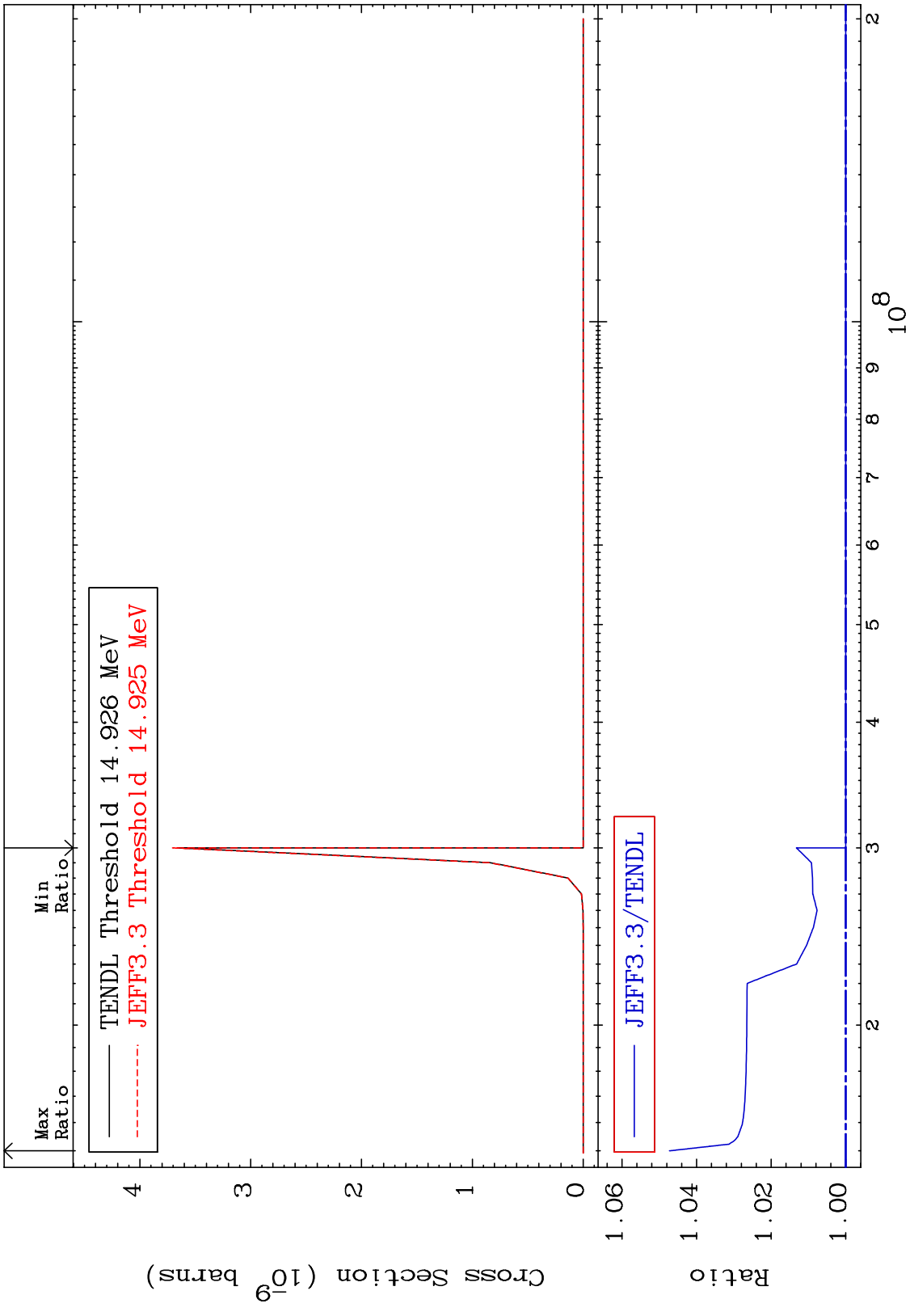
(n,3n) p:79-Au-198m10

80-Hg-201

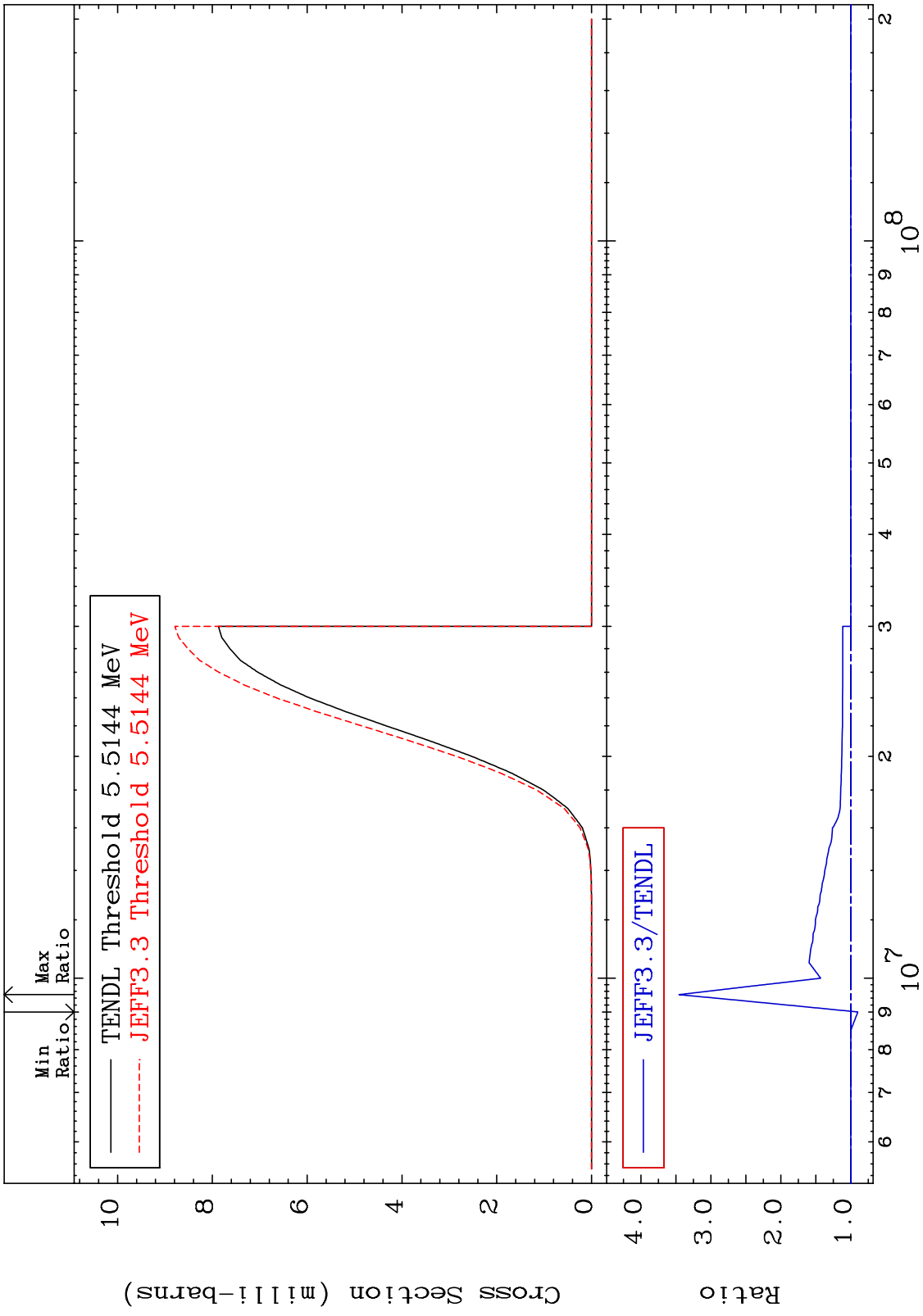
Radionuclide Production Cross Section -0.004 To 1.867 %



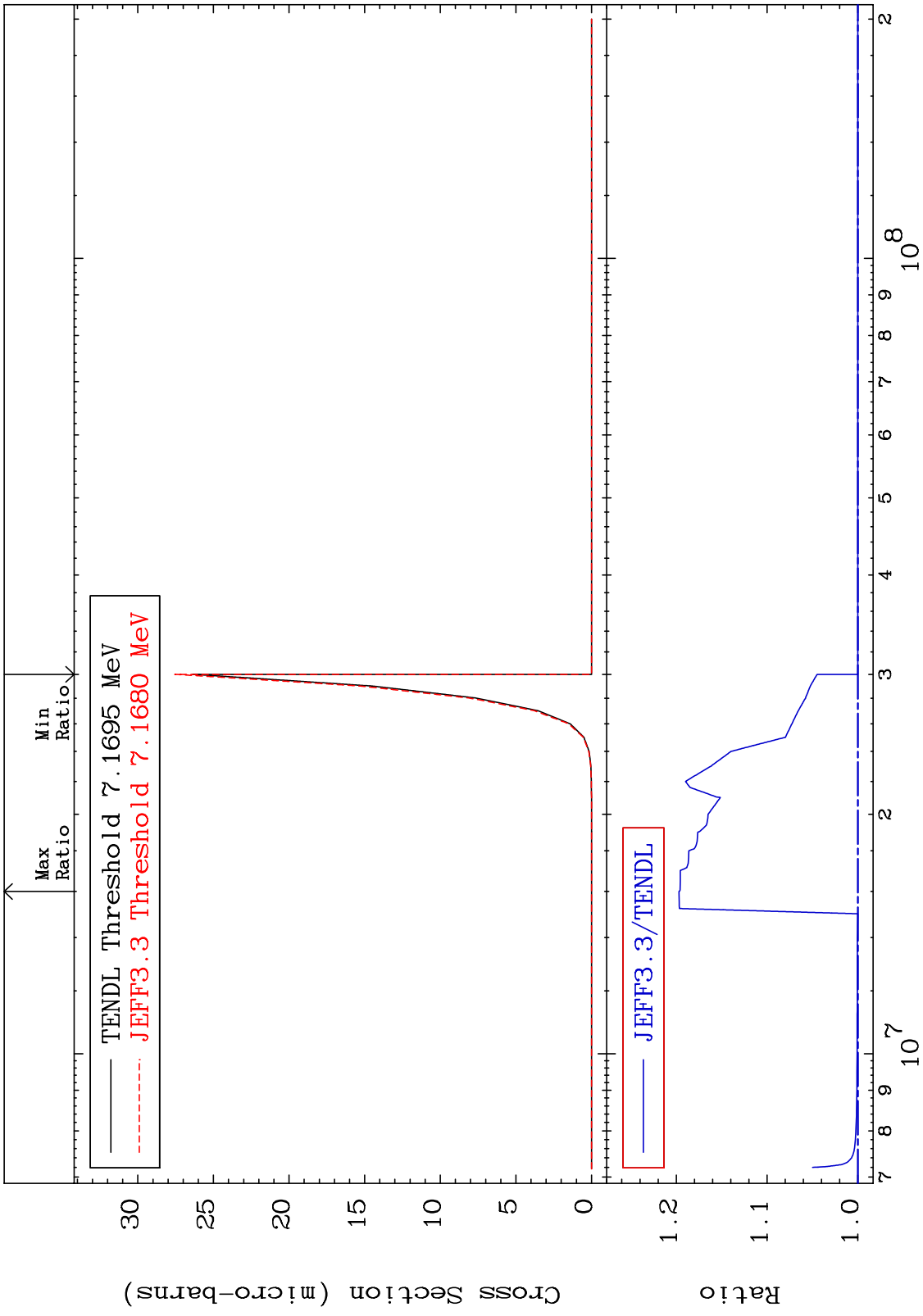
MAT 8040 (n,2n) p:78-Pt-199g 80-Hg-201  
 Radionuclide Production Cross Section 0.000 To 4.726 %



MAT 8040 (n,d):79-Au-200g 80-Hg-201  
 Radionuclide Production Cross Section -10.09 To 245.6 %



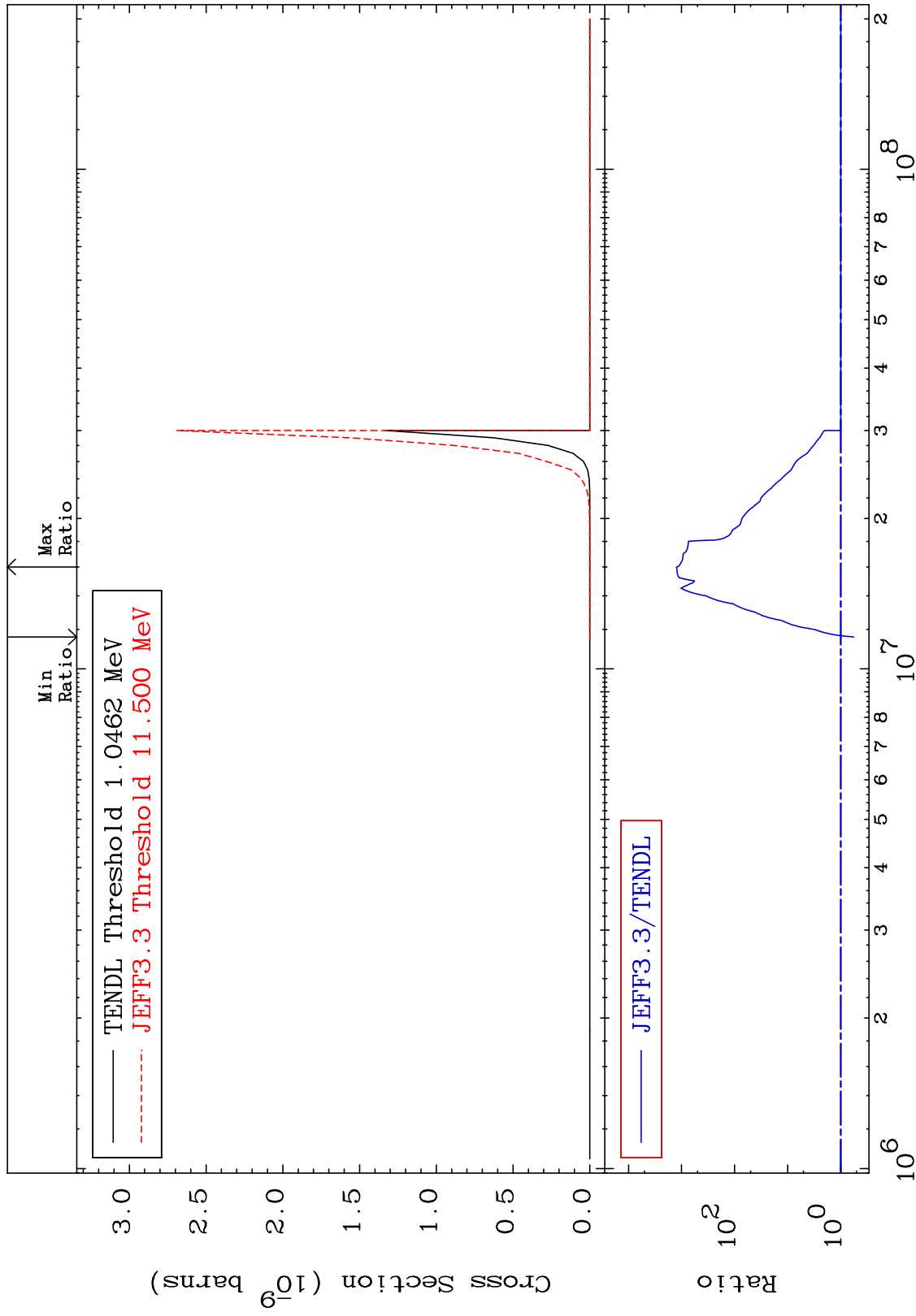
MAT 8040 (n, He-3) : 78-Pt-199g 80-Hg-201  
 Radionuclide Production Cross Section 0.000 To 19.70 %





MAT 8040

(n,p)  $\alpha$ : 77-Ir-197g 80-Hg-201  
Radionuclide Production Cross Section -43.49 To 9999. %



MAT 8040

(n, p)  $\alpha$ :77-Ir-197m2

80-Hg-201

Radionuclide Production Cross Section -62.21 To 9999. %

