

Program Complot  
(Version 2021-1)

by

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(Present Contact Information)

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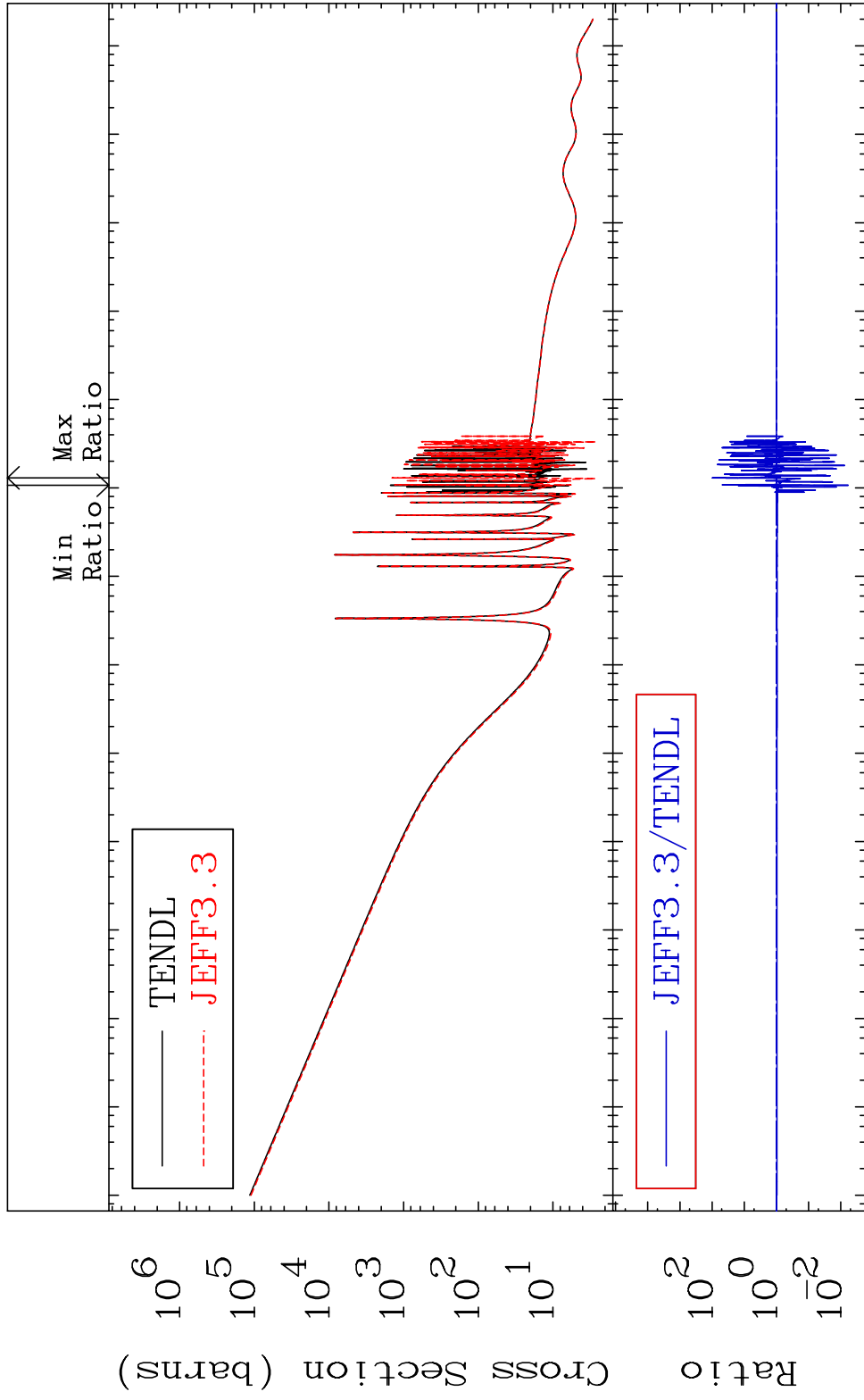
Press Mouse Button to Start

MAT 8034

Total

80-Hg-199

Cross Section -99.41 To 9710. %



1

Incident Energy (eV)

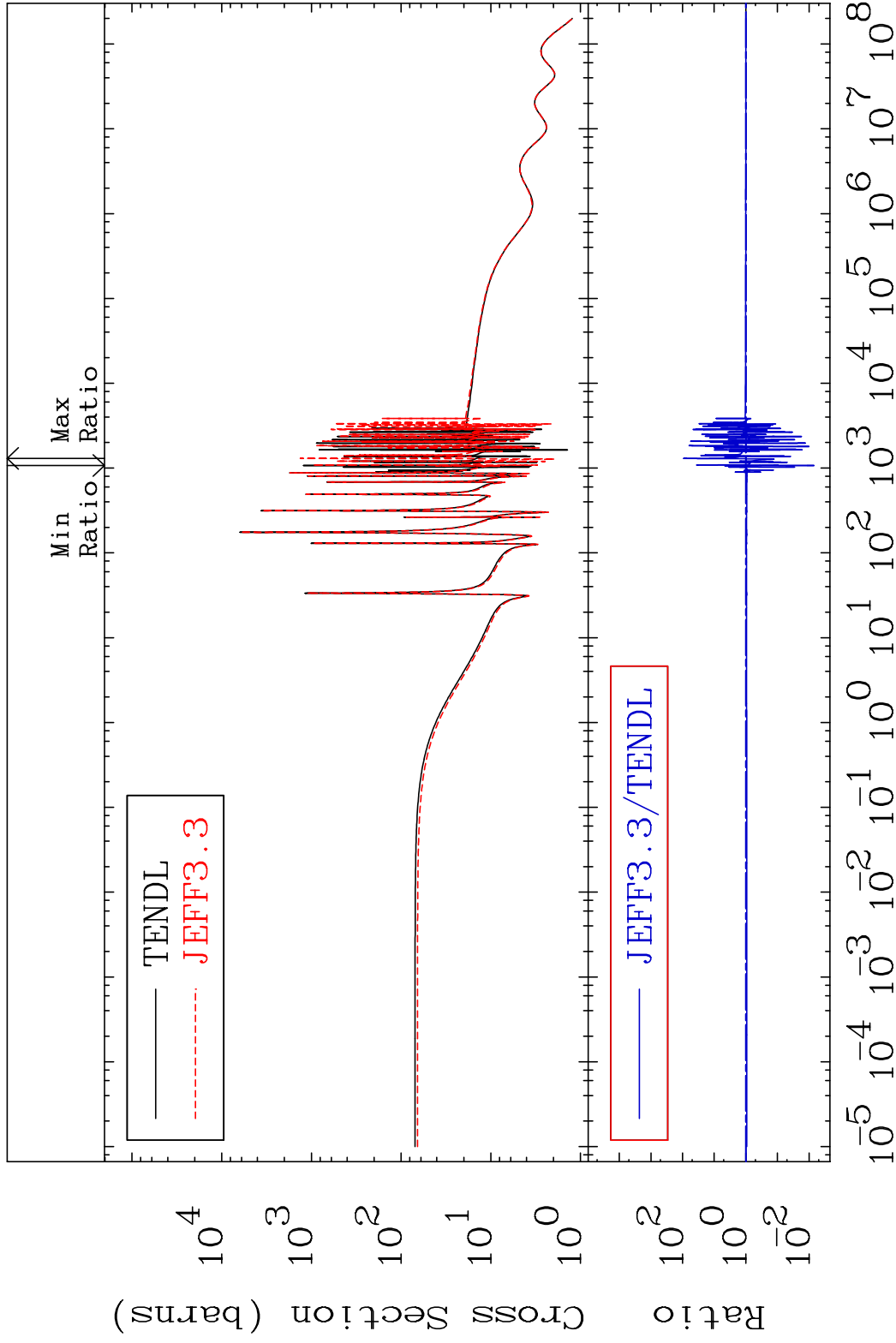
80-Hg-199

MAT 8034

Elastic

80-Hg-199

Cross Section -99.31 To 9121. %



Min Ratio

Max Ratio

— TENDL  
- - - JEFF3.3

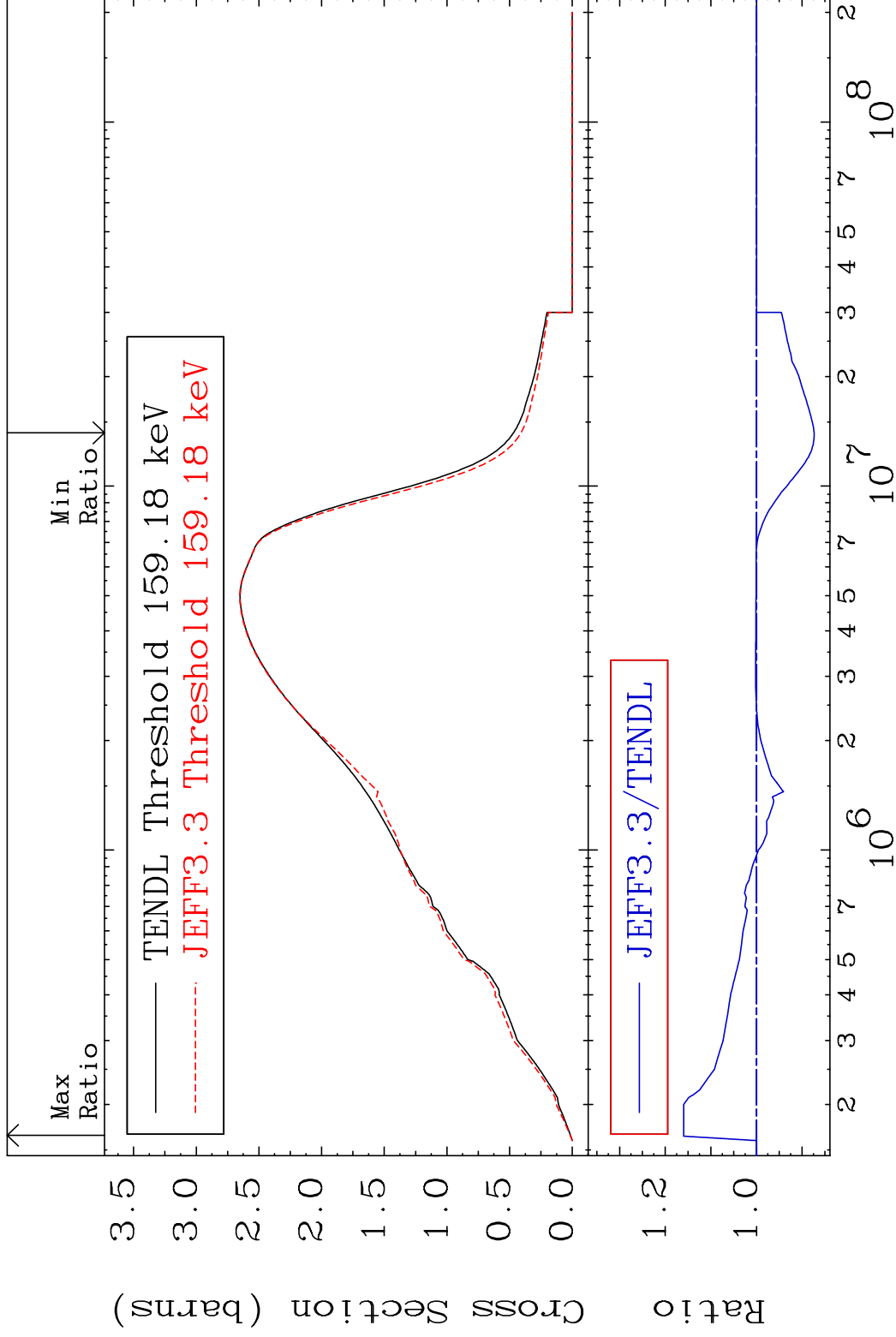
— JEFF3.3/TENDL

MAT 8034

Inelastic

80-Hg-199

Cross Section -12.63 To 15.96 %



3

Incident Energy (eV)

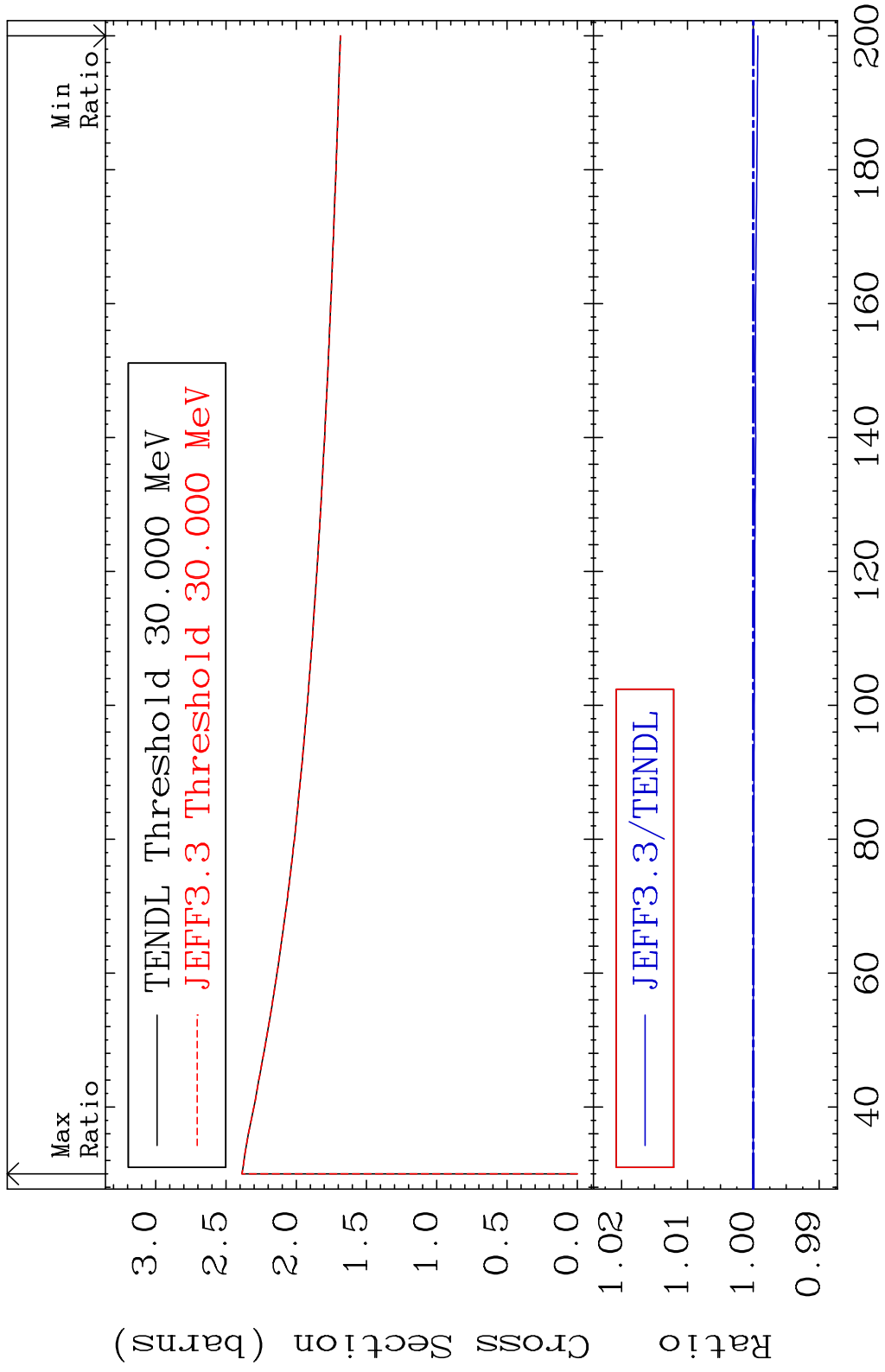
80-Hg-199

MAT 8034

(n, remainder)

80-Hg-199

Cross Section -0.070 To 0.000 %

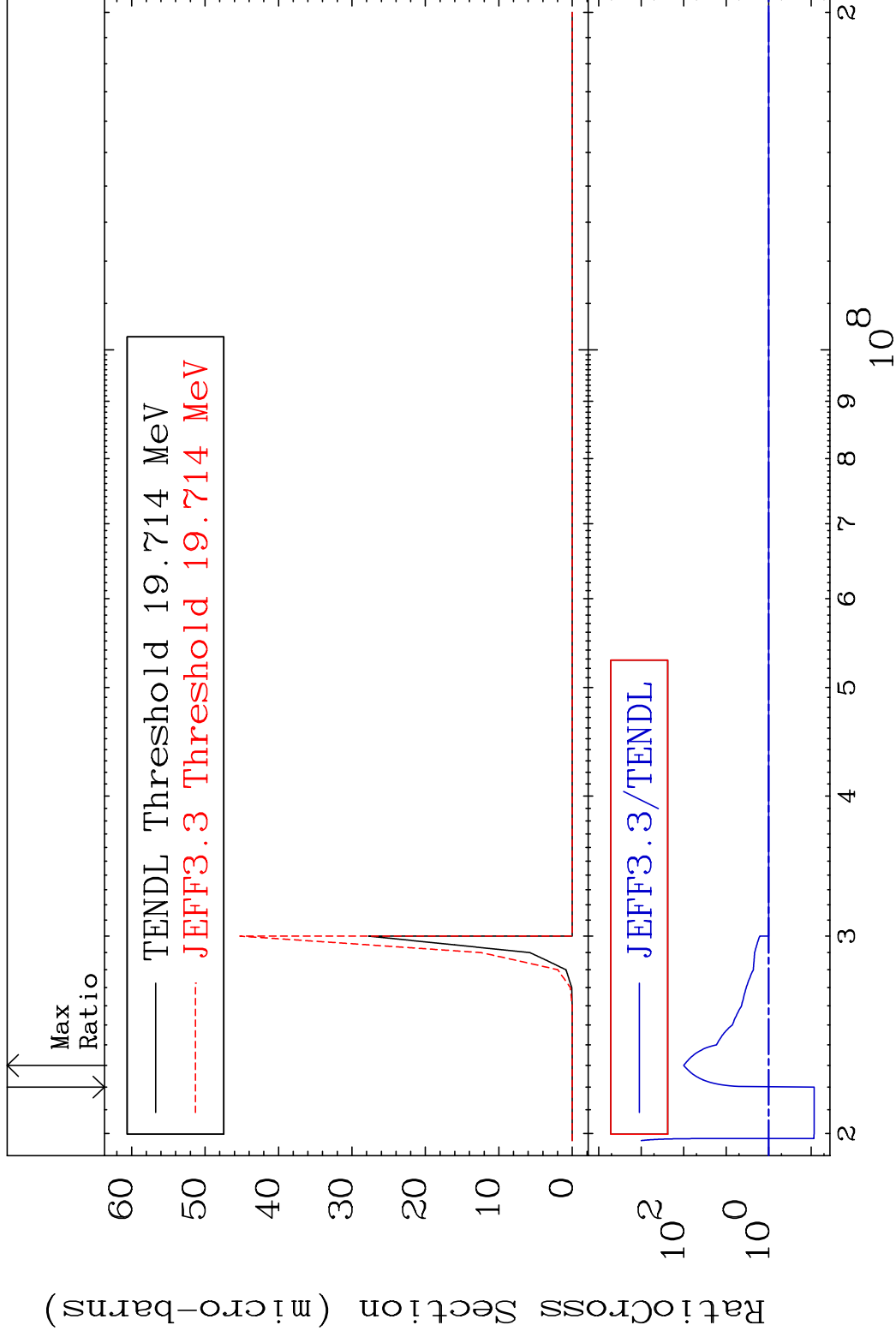


MAT 8034

(n,2n) d

80-Hg-199

Cross Section -91.44 To 9929. %



5

Incident Energy (eV)

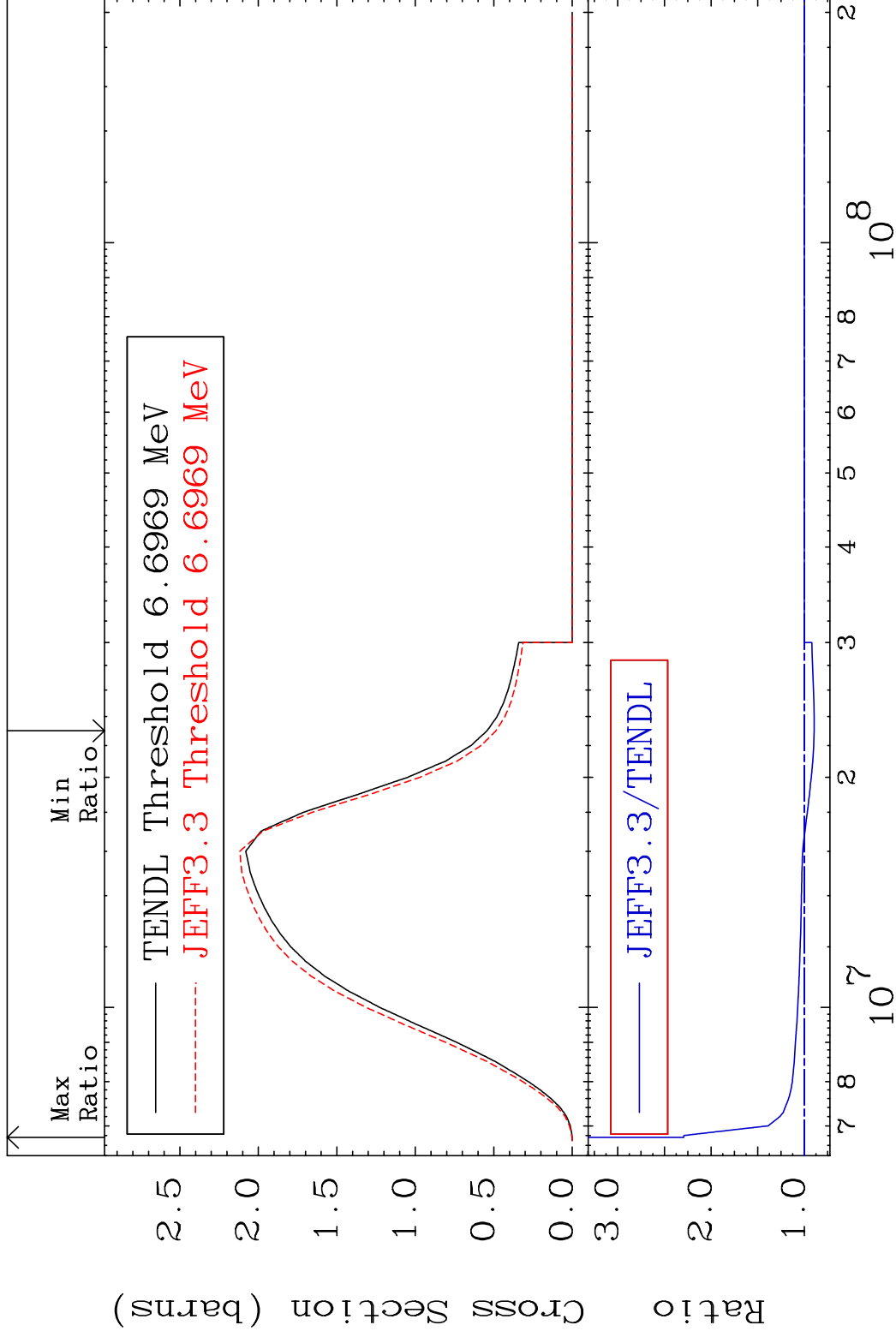
80-Hg-199

MAT 8034

(n,2n)

80-Hg-199

Cross Section -10.48 To 129.4 %



6

Incident Energy (eV)

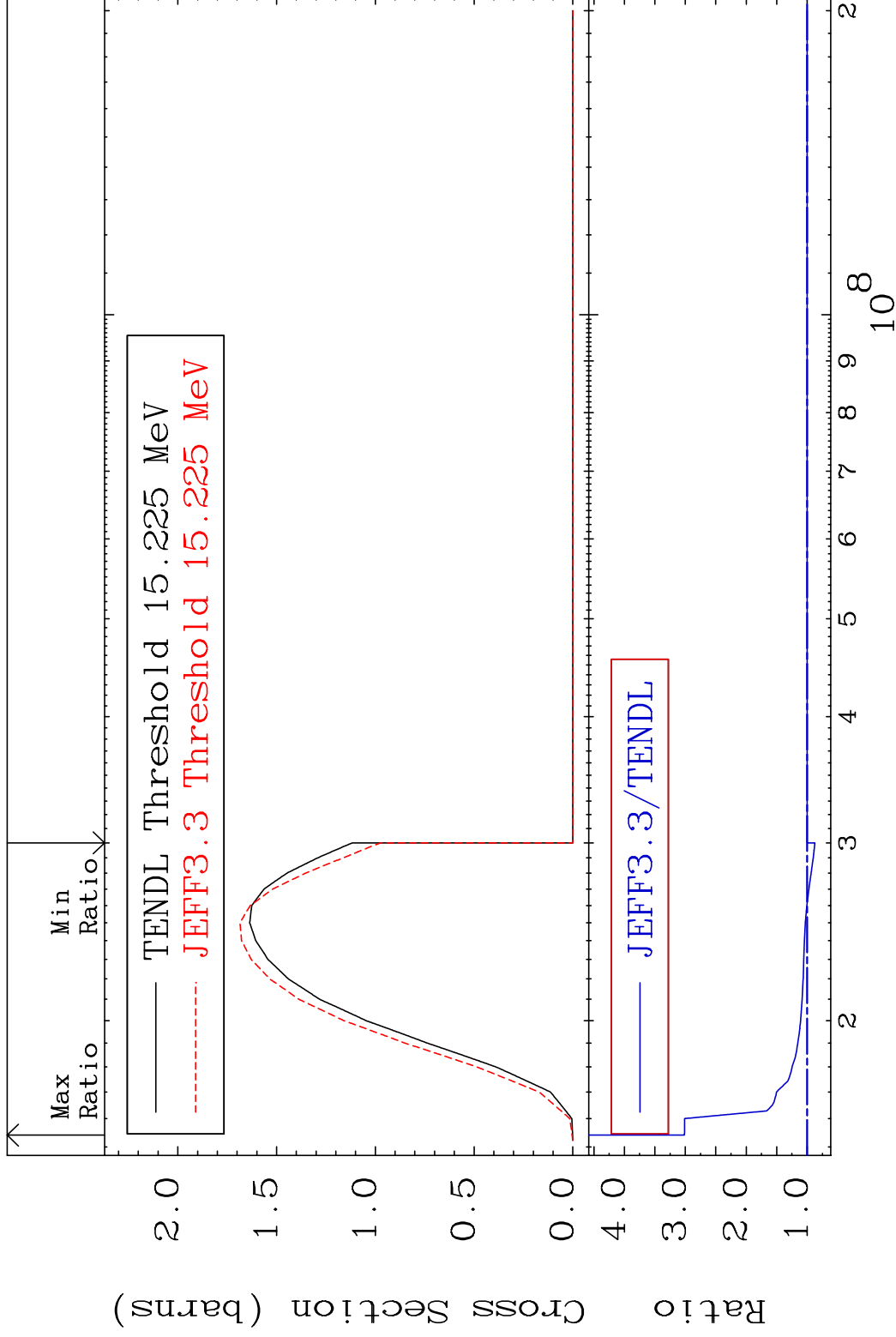
80-Hg-199

MAT 8034

(n,3n)

80-Hg-199

Cross Section -12.71 To 201.6 %



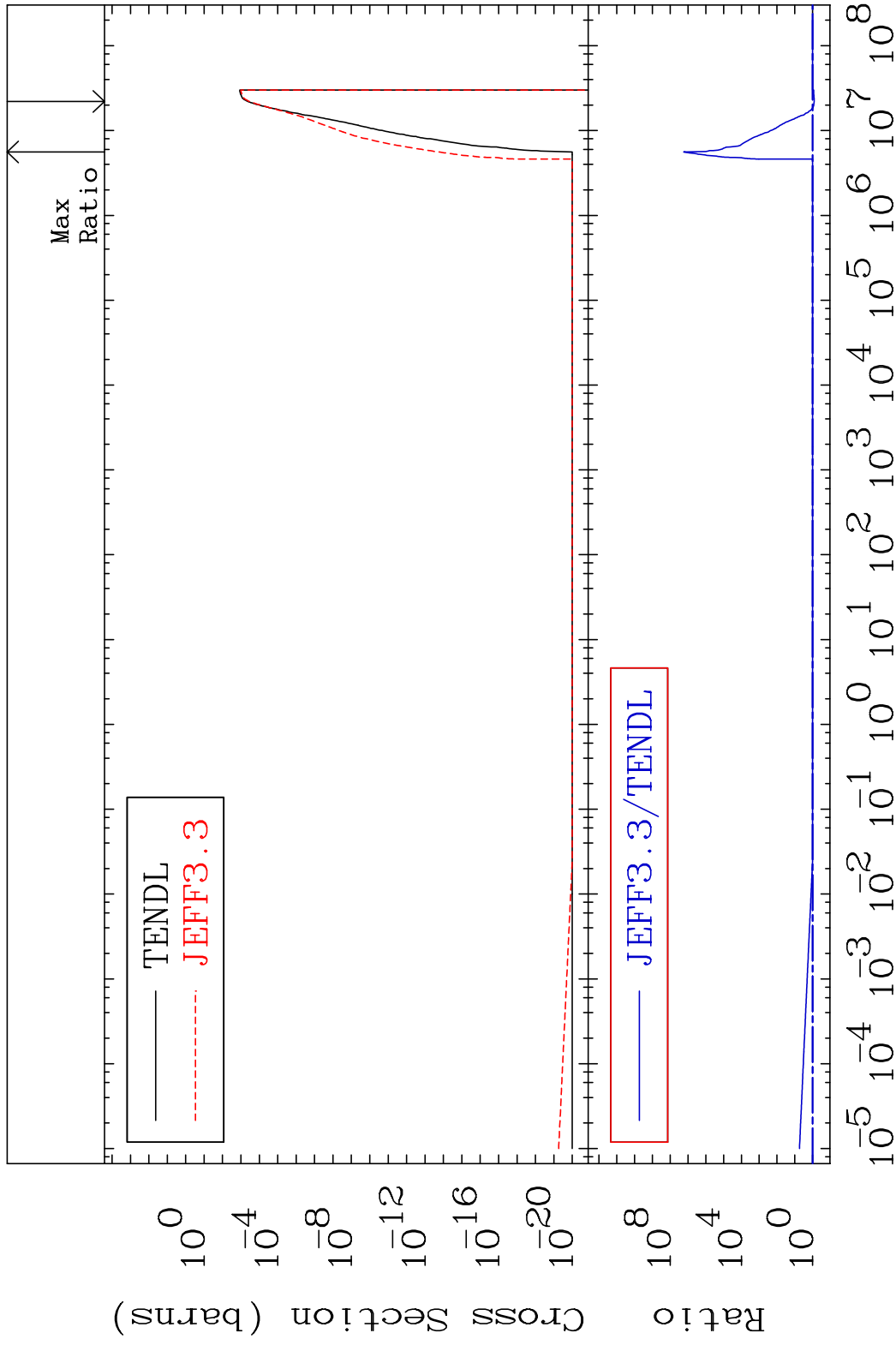


MAT 8034

(n, n')  $\alpha$

80-Hg-199

Cross Section -17.81 To 9999. %



8

Incident Energy (eV)

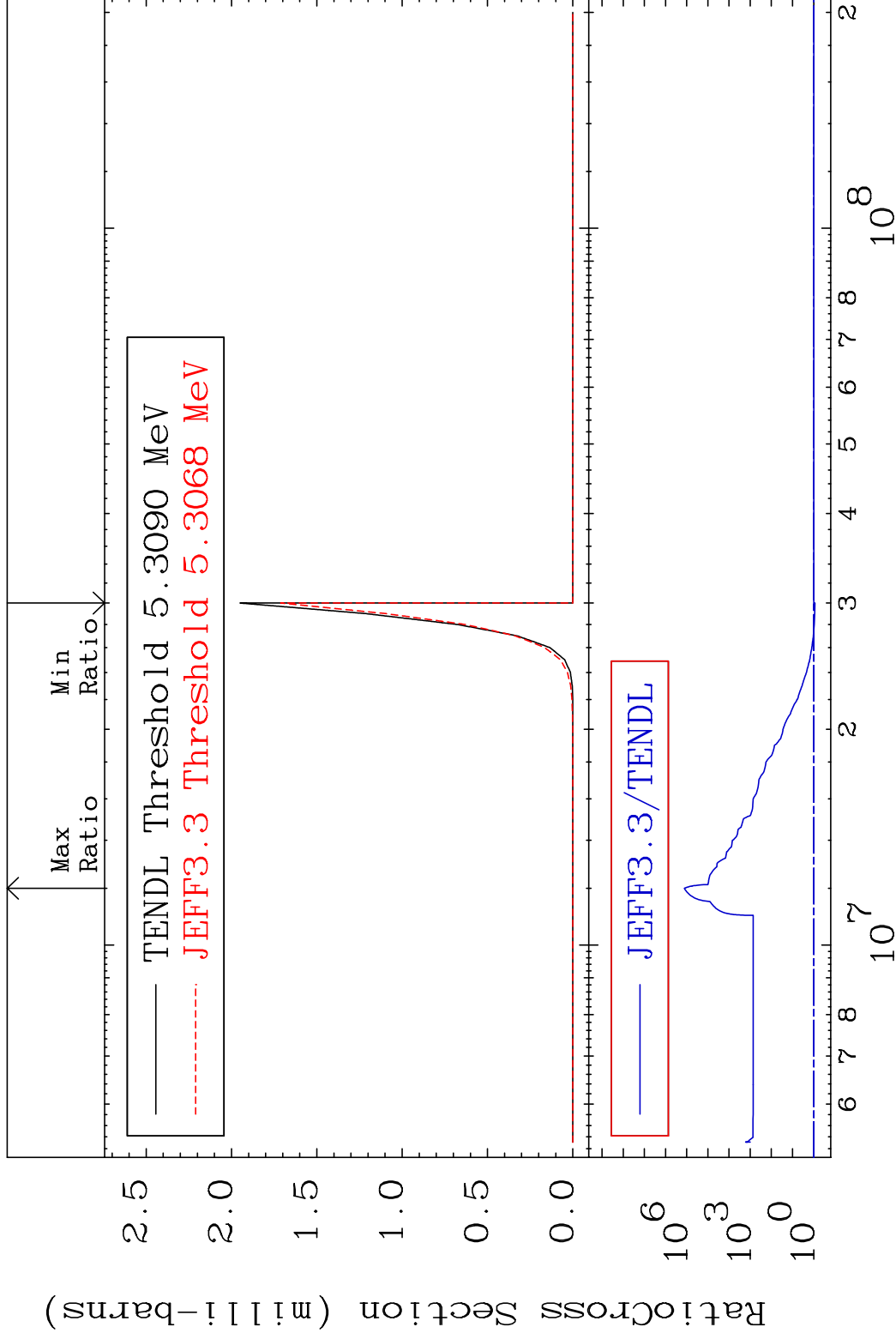
80-Hg-199

MAT 8034

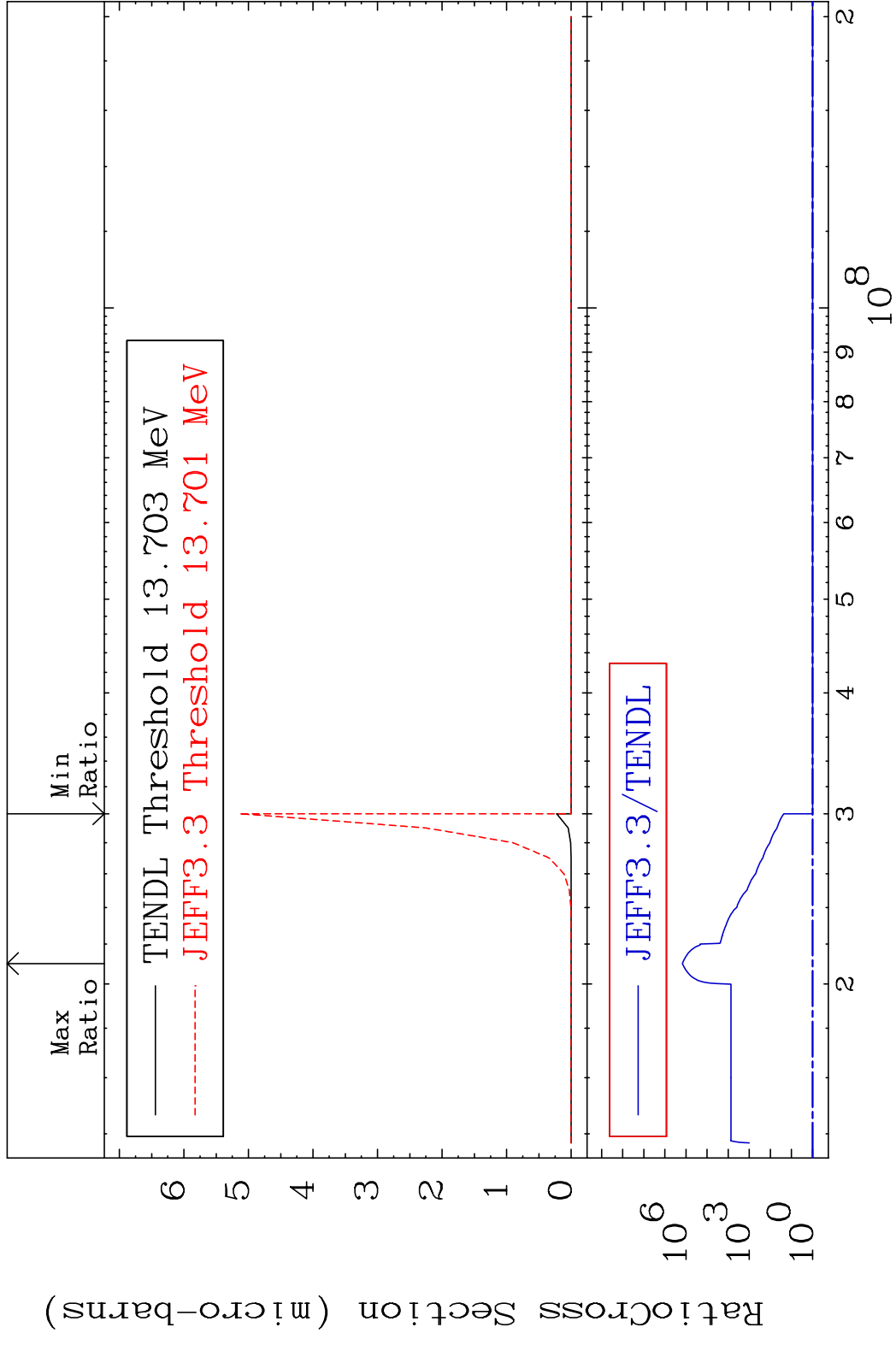
(n,2n)  $\alpha$

80-Hg-199

Cross Section -12.21 To 9999. %



MAT 8034 (n,3n)  $\alpha$  80-Hg-199  
 Cross Section 0.000 To 9999. %



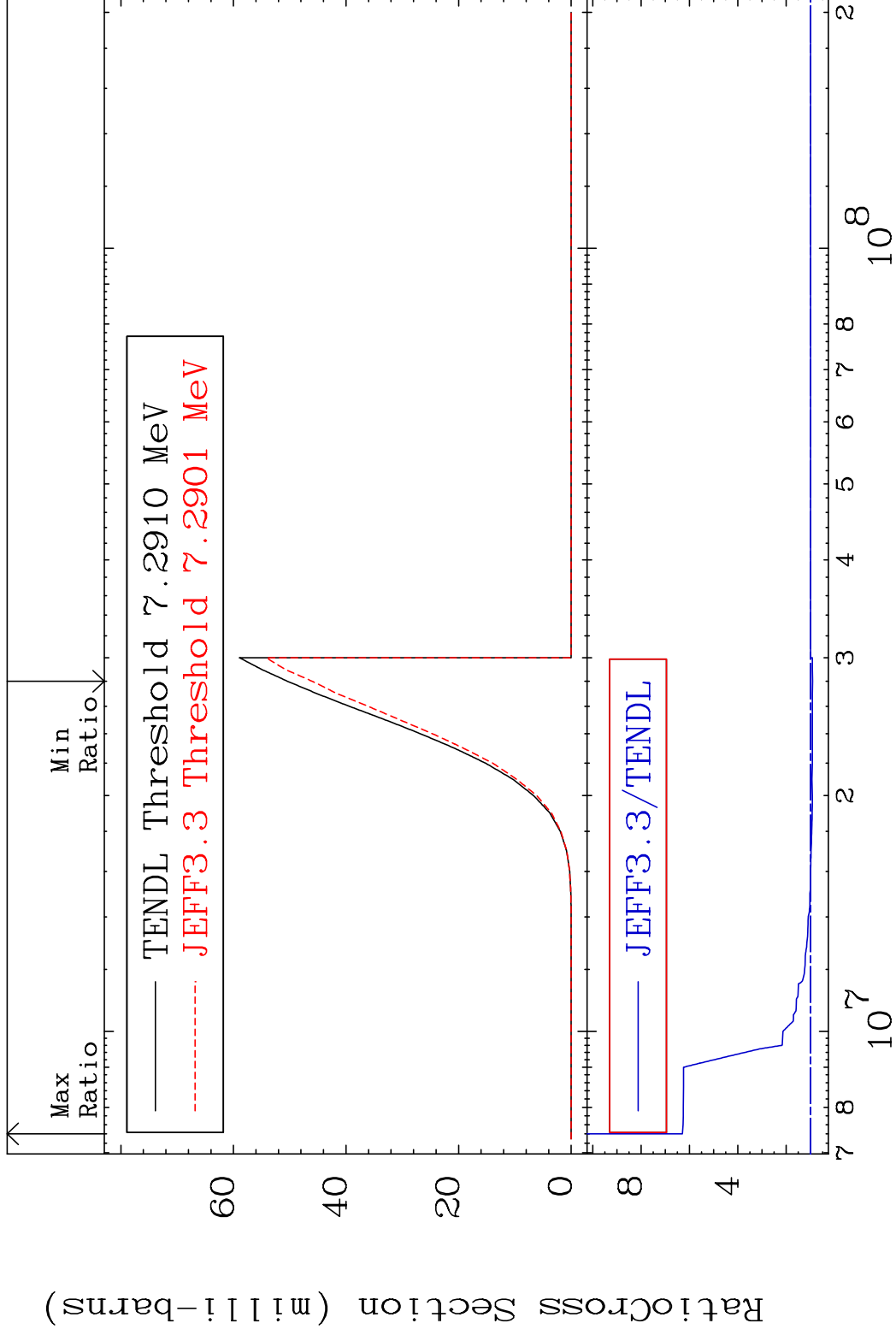
10 Incident Energy (eV) 80-Hg-199

MAT 8034

(n, n') p

80-Hg-199

Cross Section -8.730 To 529.5 %



11

Incident Energy (eV)

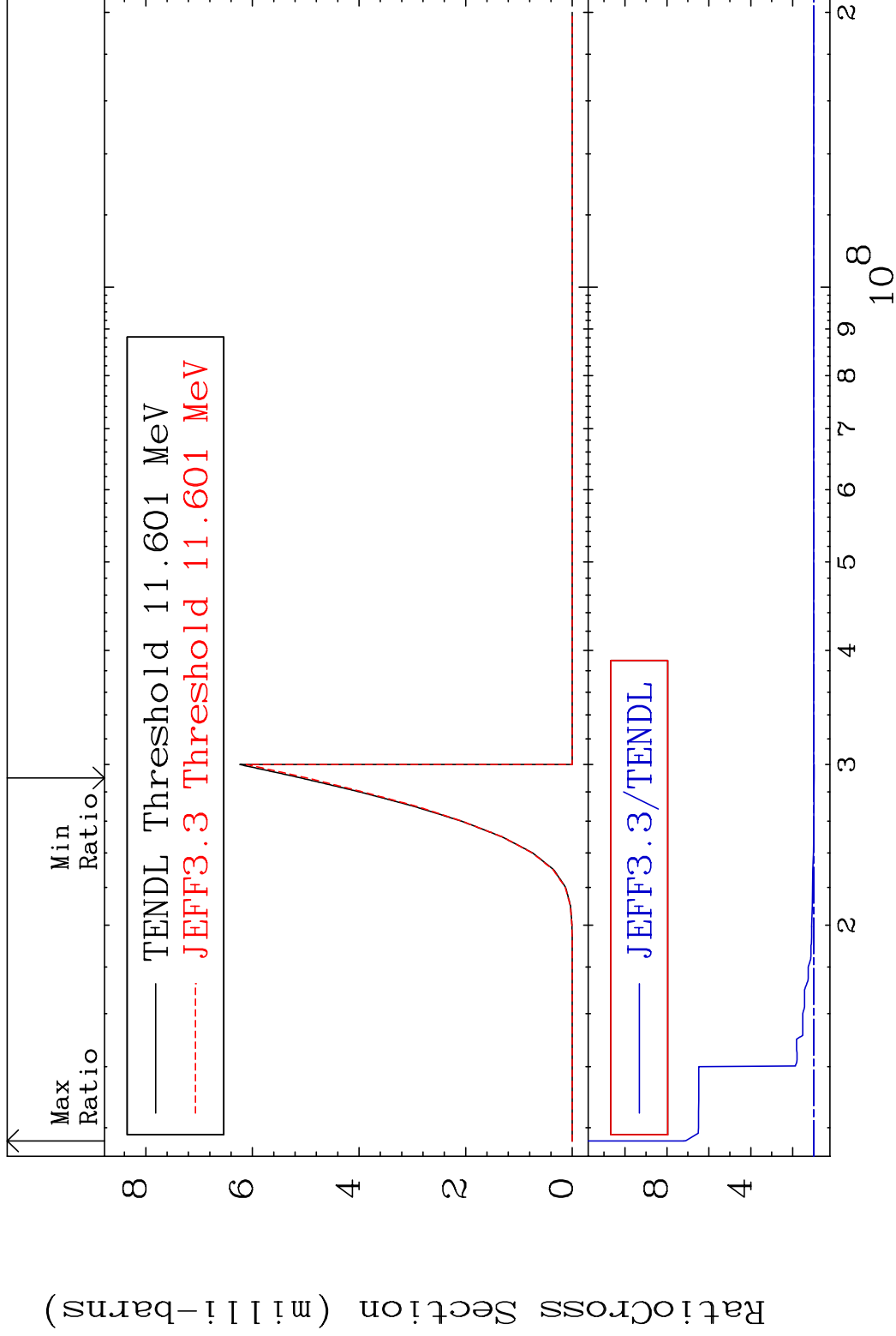
80-Hg-199

MAT 8034

(n, n') d

80-Hg-199

Cross Section -2.191 To 620.1 %

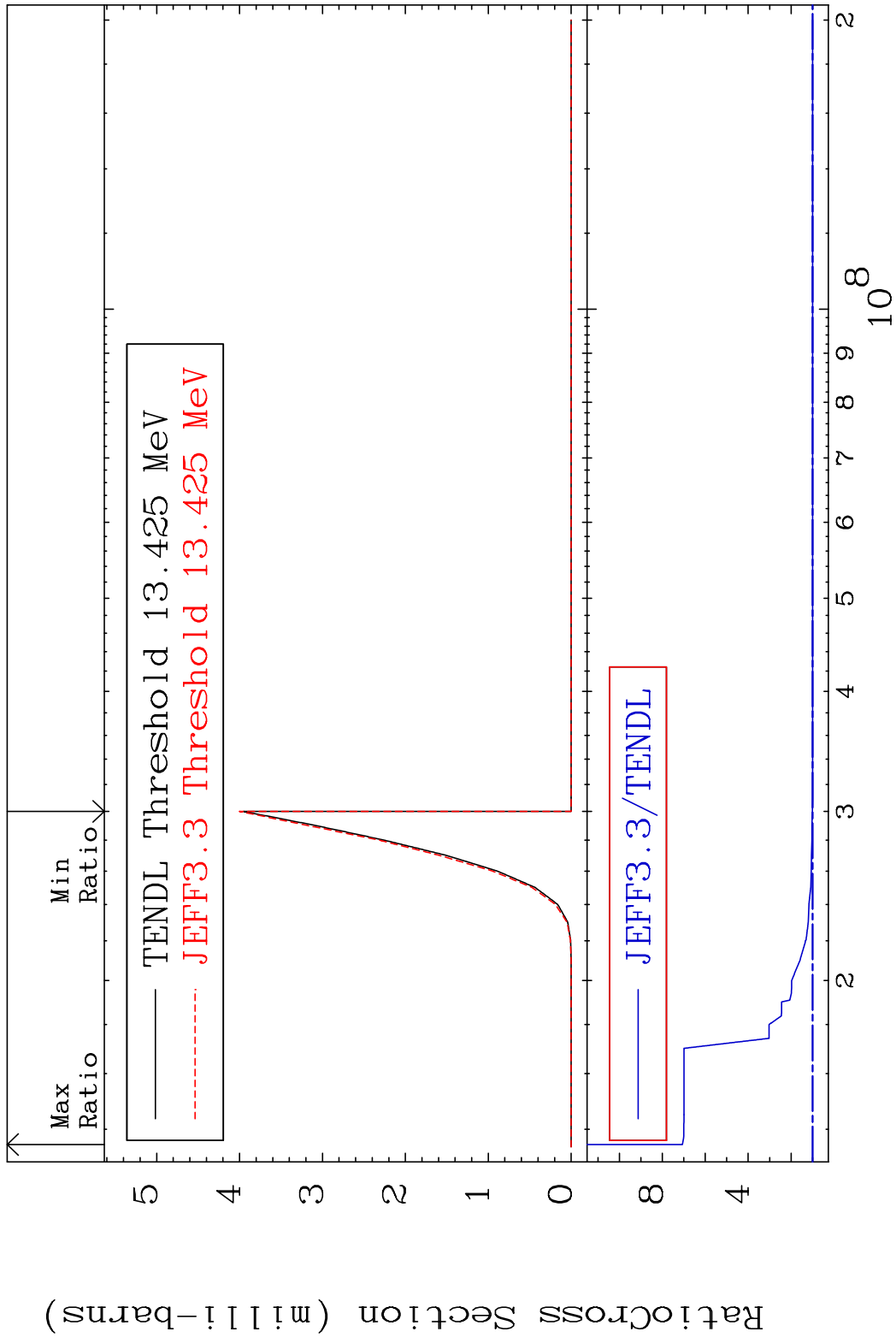


MAT 8034

(n, n') t

80-Hg-199

Cross Section 0.000 To 606.6 %



13

Incident Energy (eV)

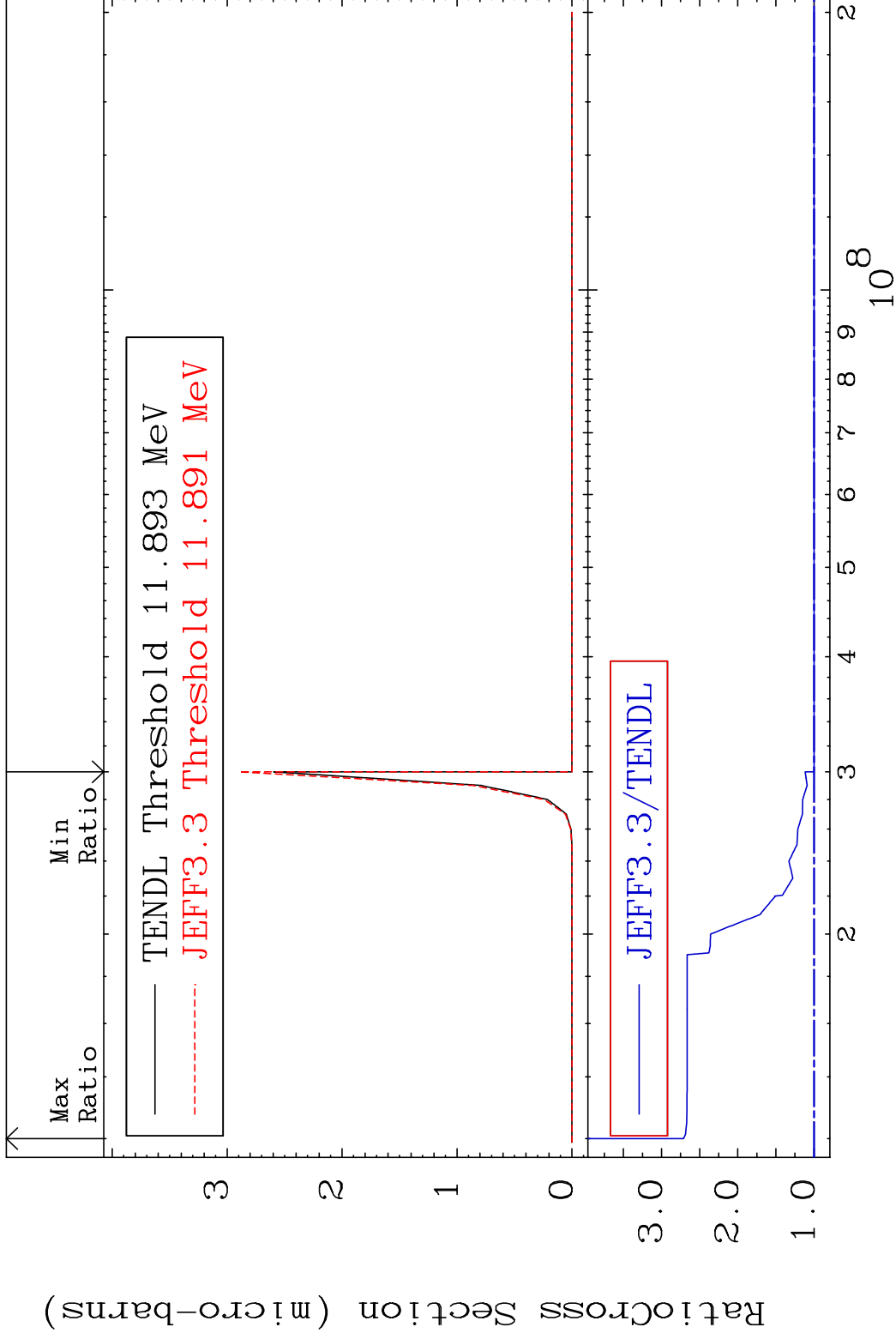
80-Hg-199

MAT 8034

(n,n') He-3

80-Hg-199

Cross Section 0.000 To 171.2 %

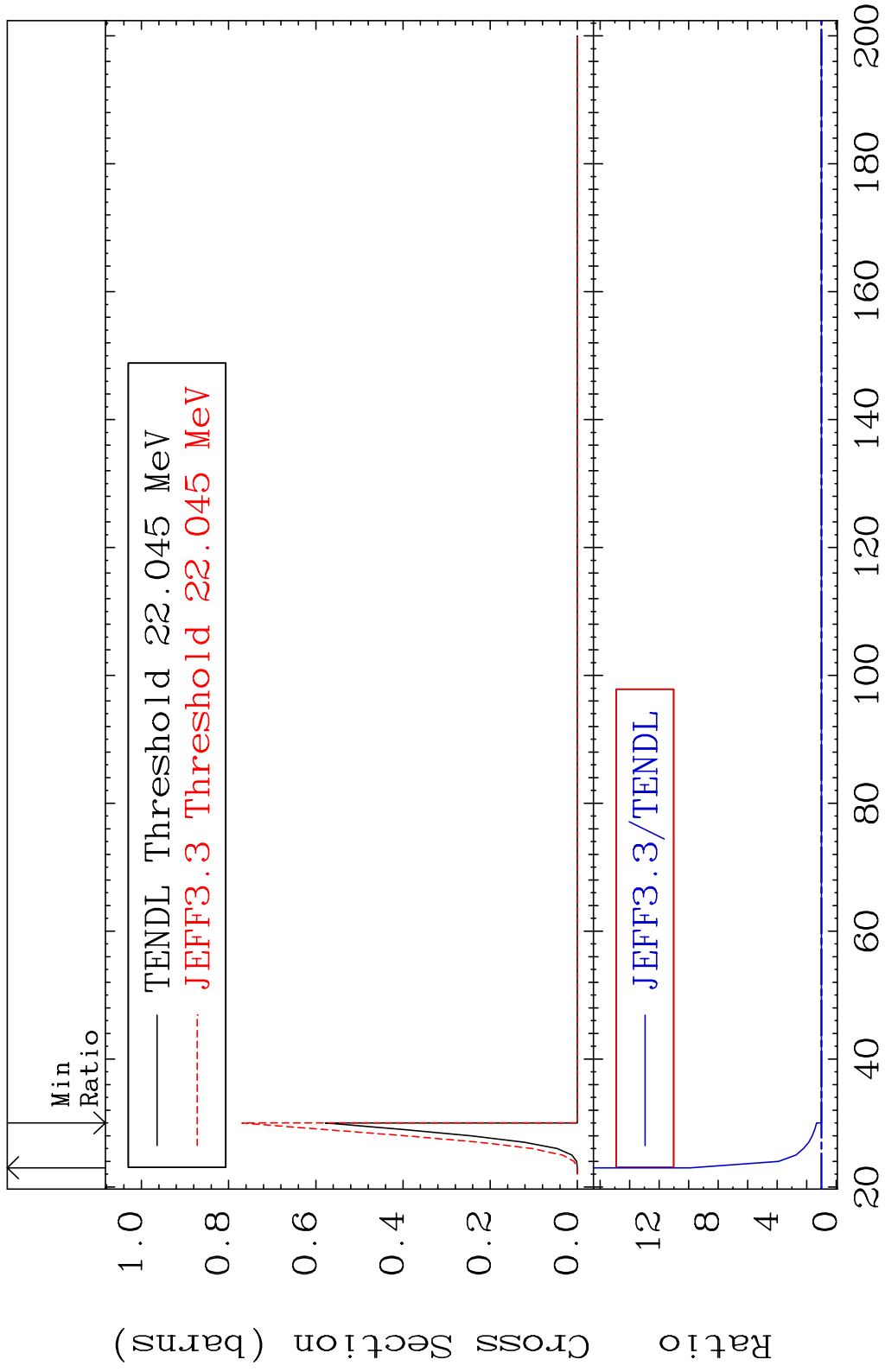


MAT 8034

(n,4n)

80-Hg-199

Cross Section 0.000 To 891.9 %



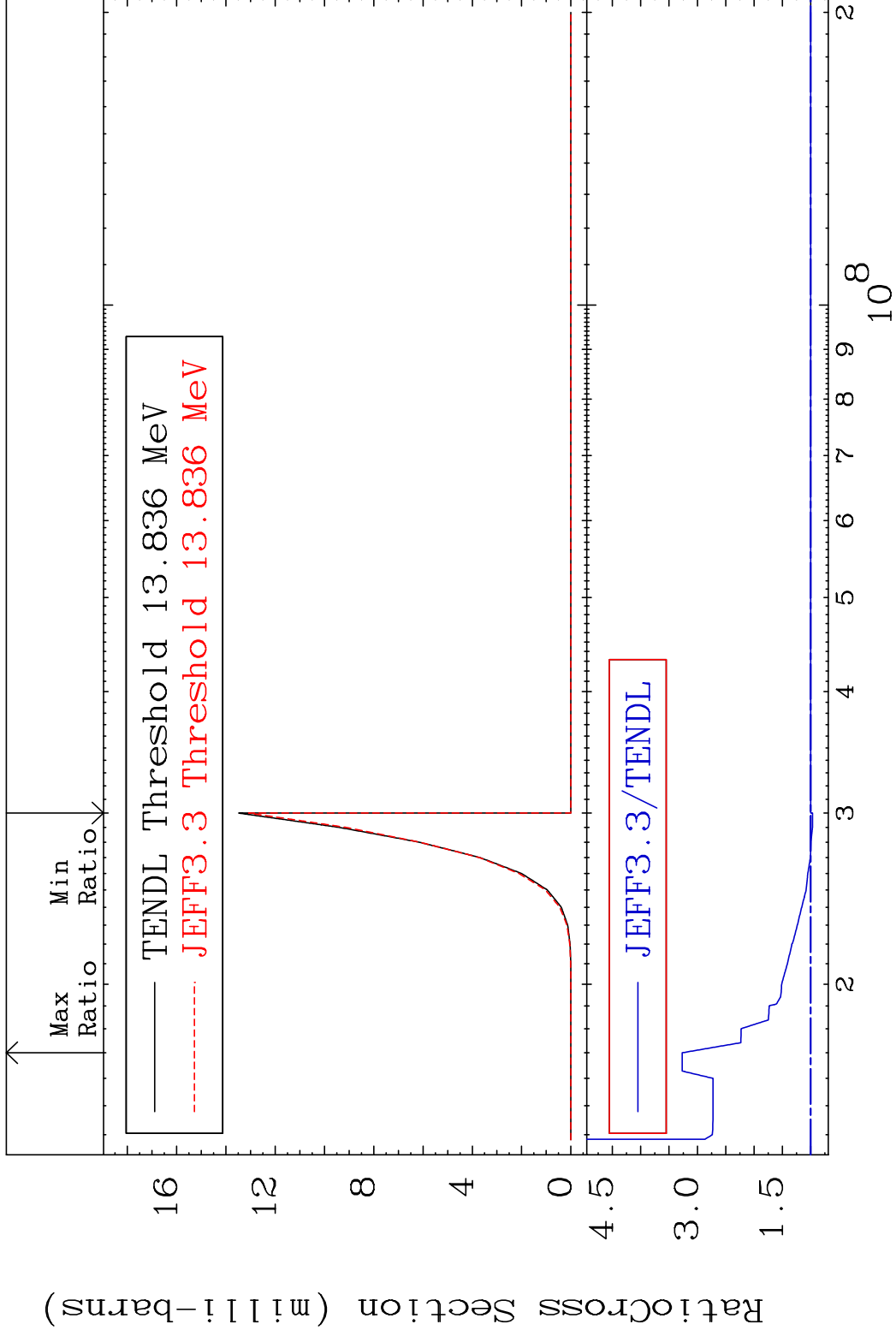


MAT 8034

(n,2n) p

80-Hg-199

Cross Section -3.019 To 226.9 %

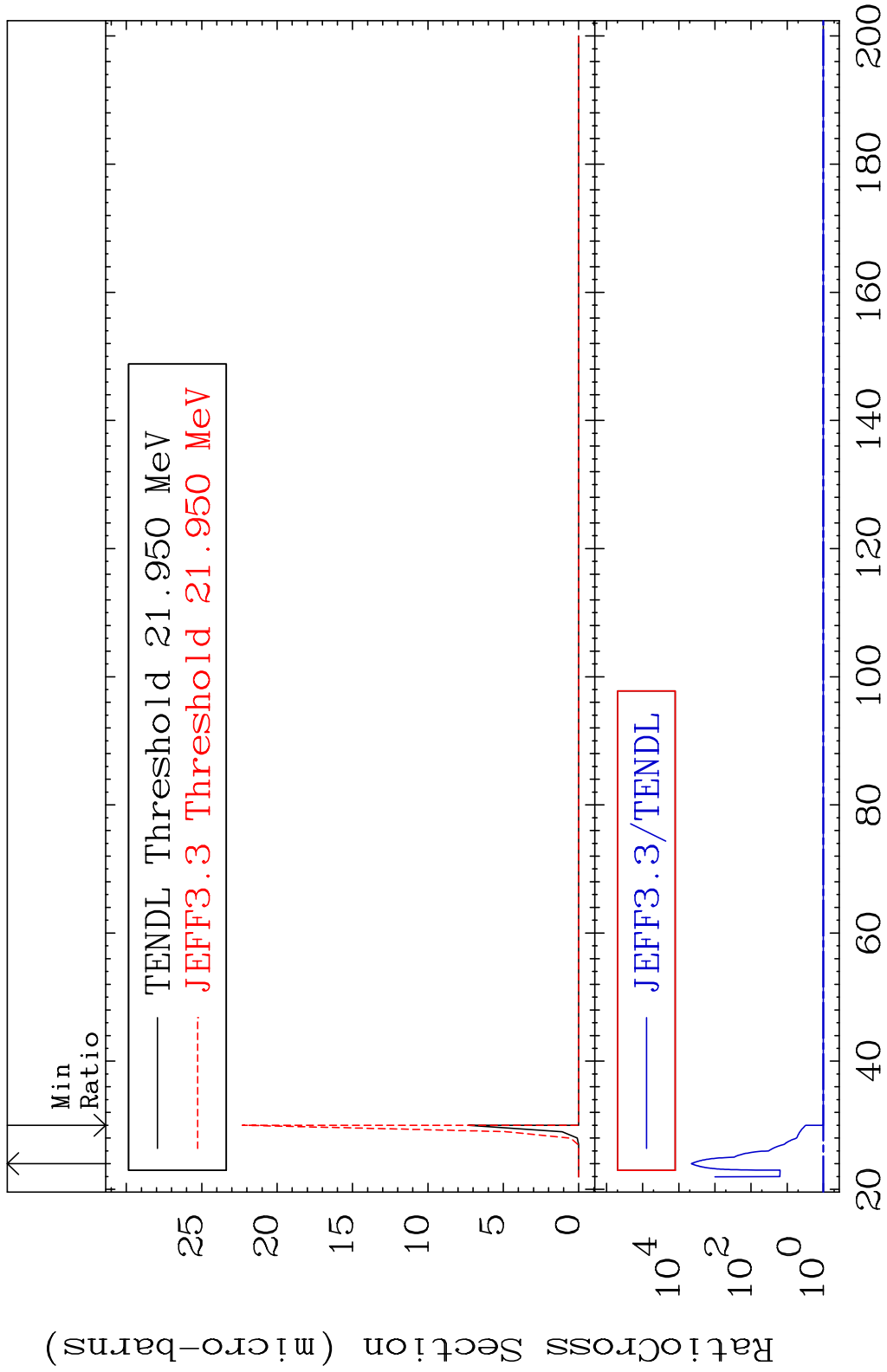


16

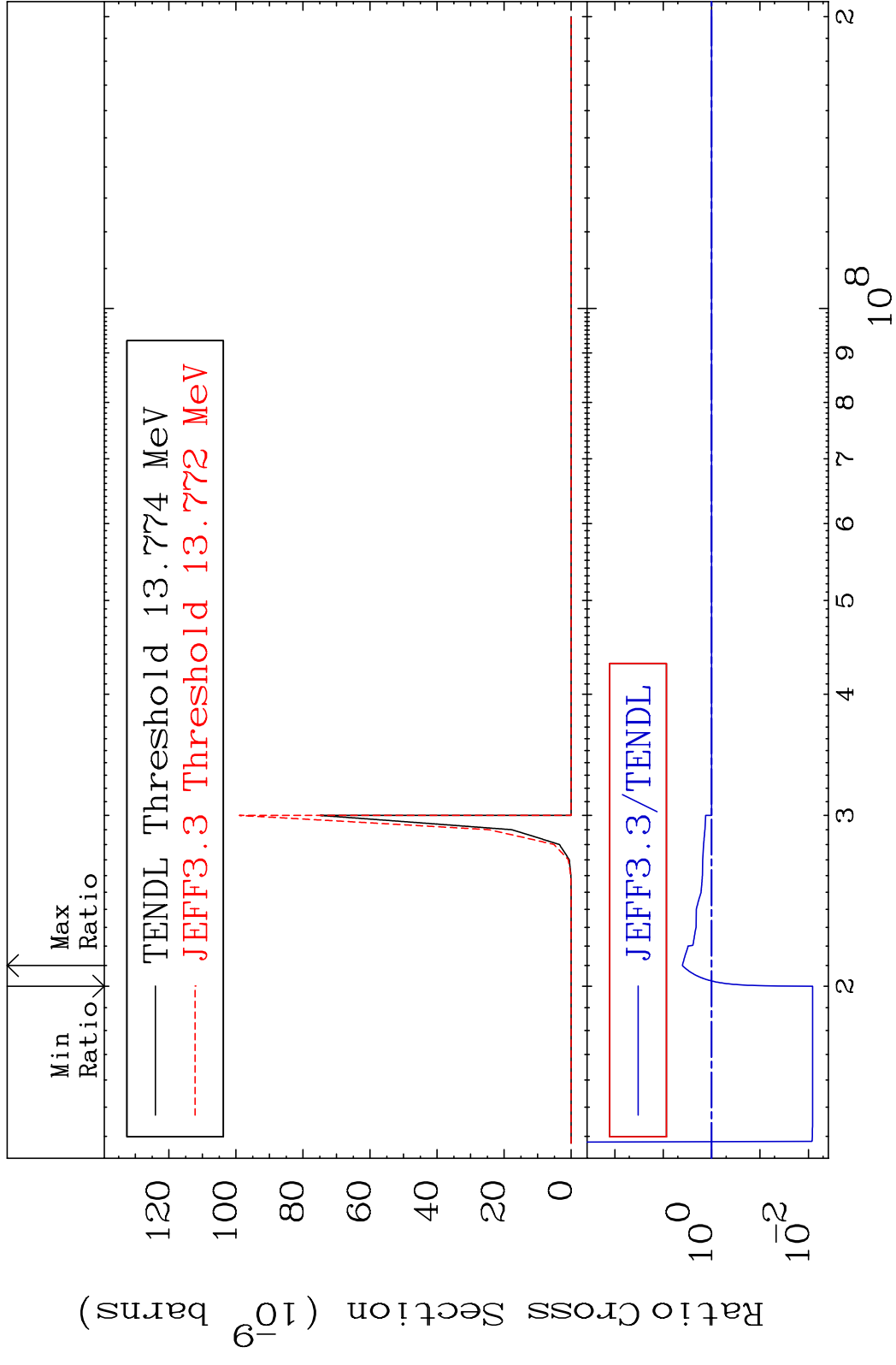
Incident Energy (eV)

80-Hg-199

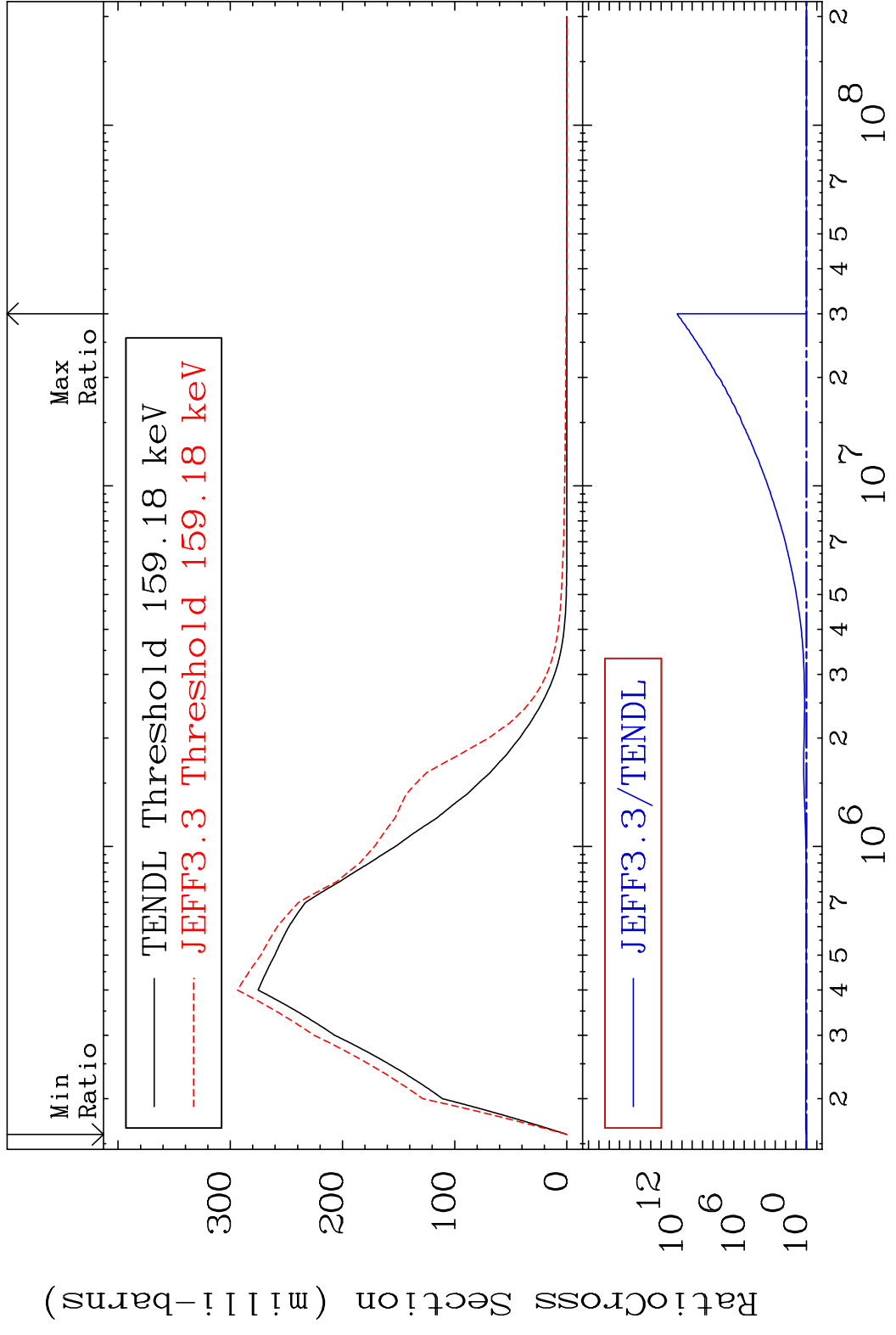
MAT 8034 (n,3n) p 80-Hg-199  
 Cross Section 0.000 To 9999. %



MAT 8034 (n,2n) p 80-Hg-199  
 Cross Section -99.18 To 302.0 %



MAT 8034 MT= 51 (n,n') Level 80-Hg-199  
 Cross Section 0.000 To 9999. %

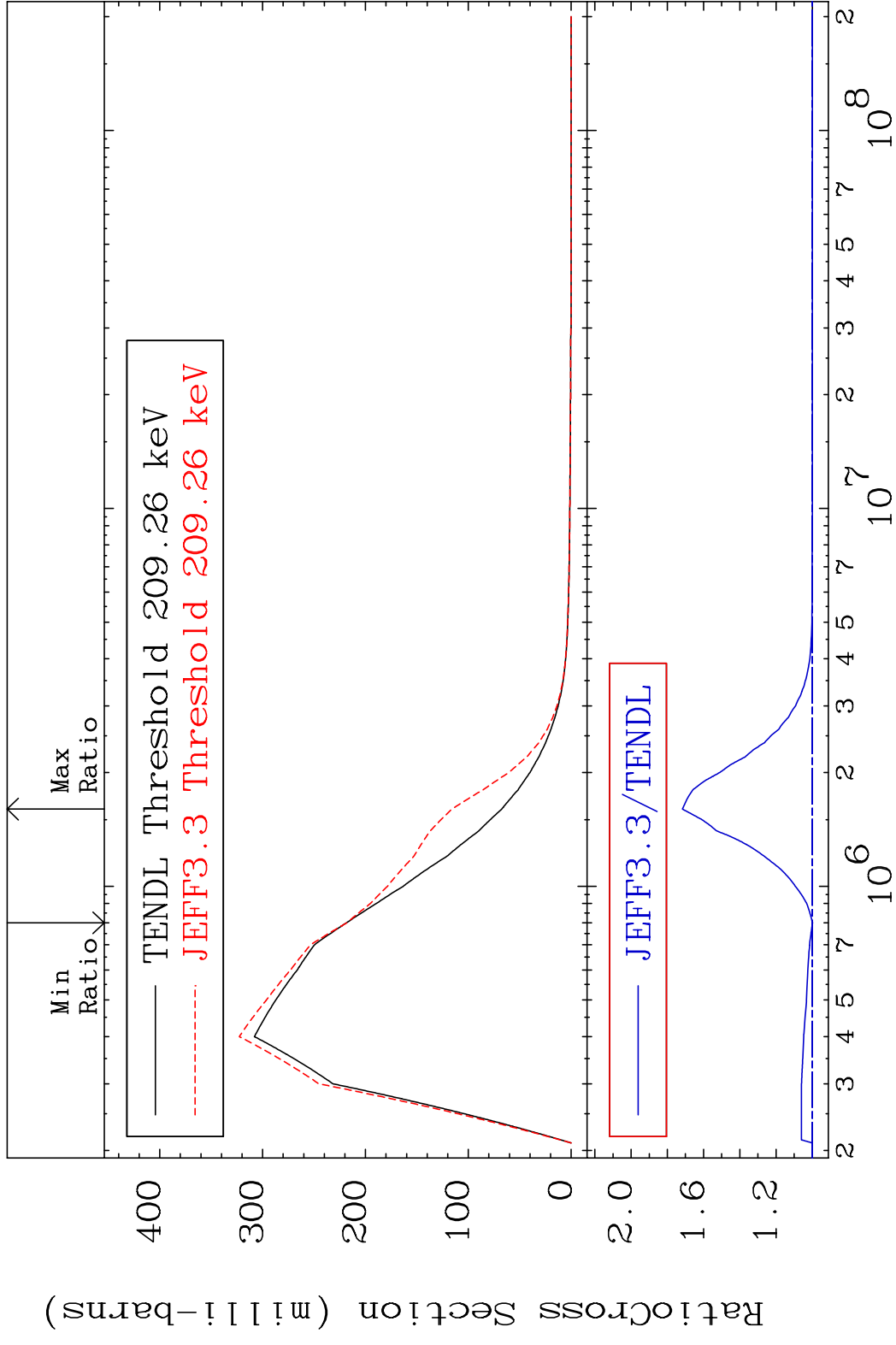


MAT 8034

MT= 52 (n,n') Level

80-Hg-199

Cross Section -0.151 To 71.72 %

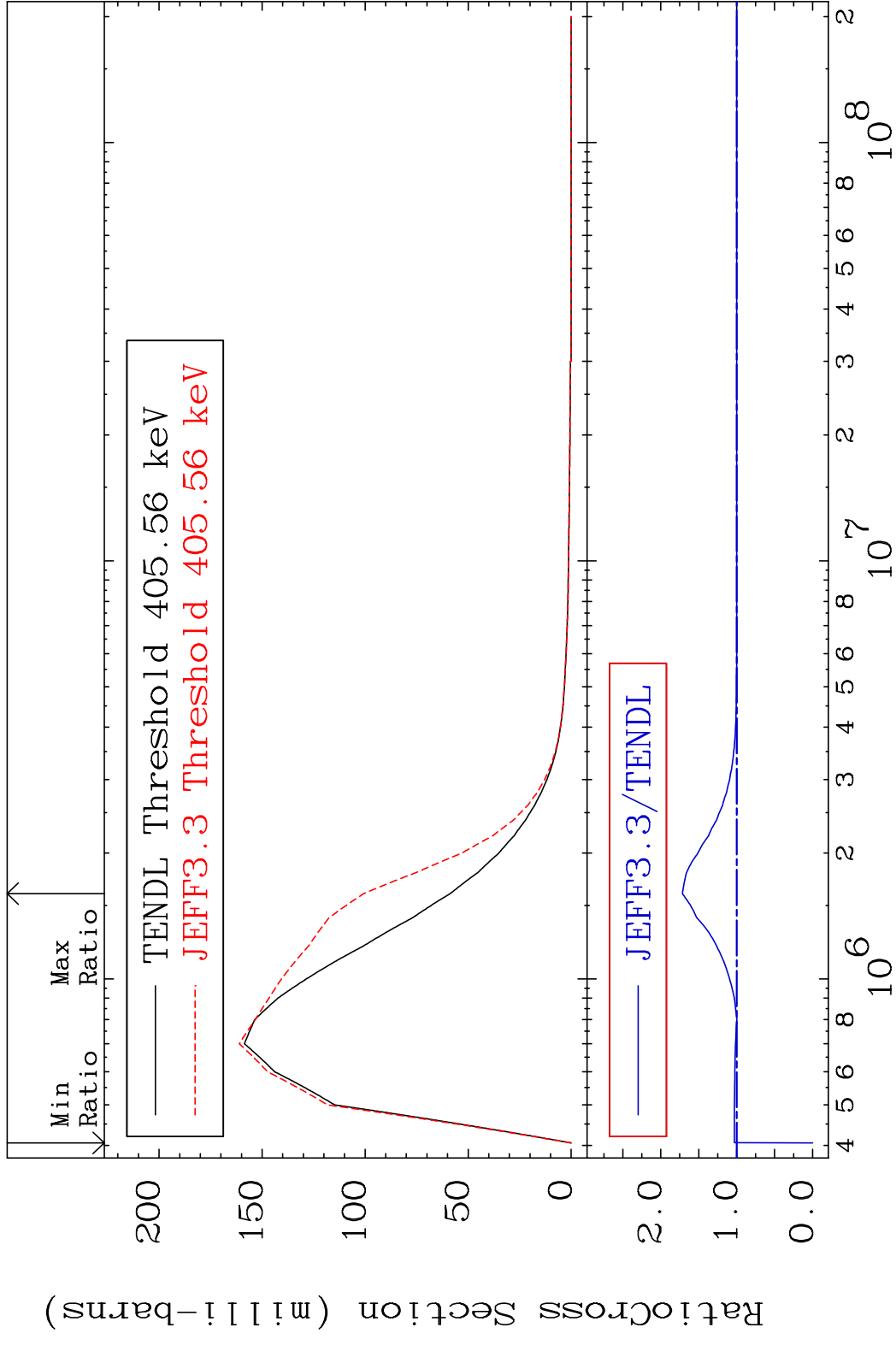


20

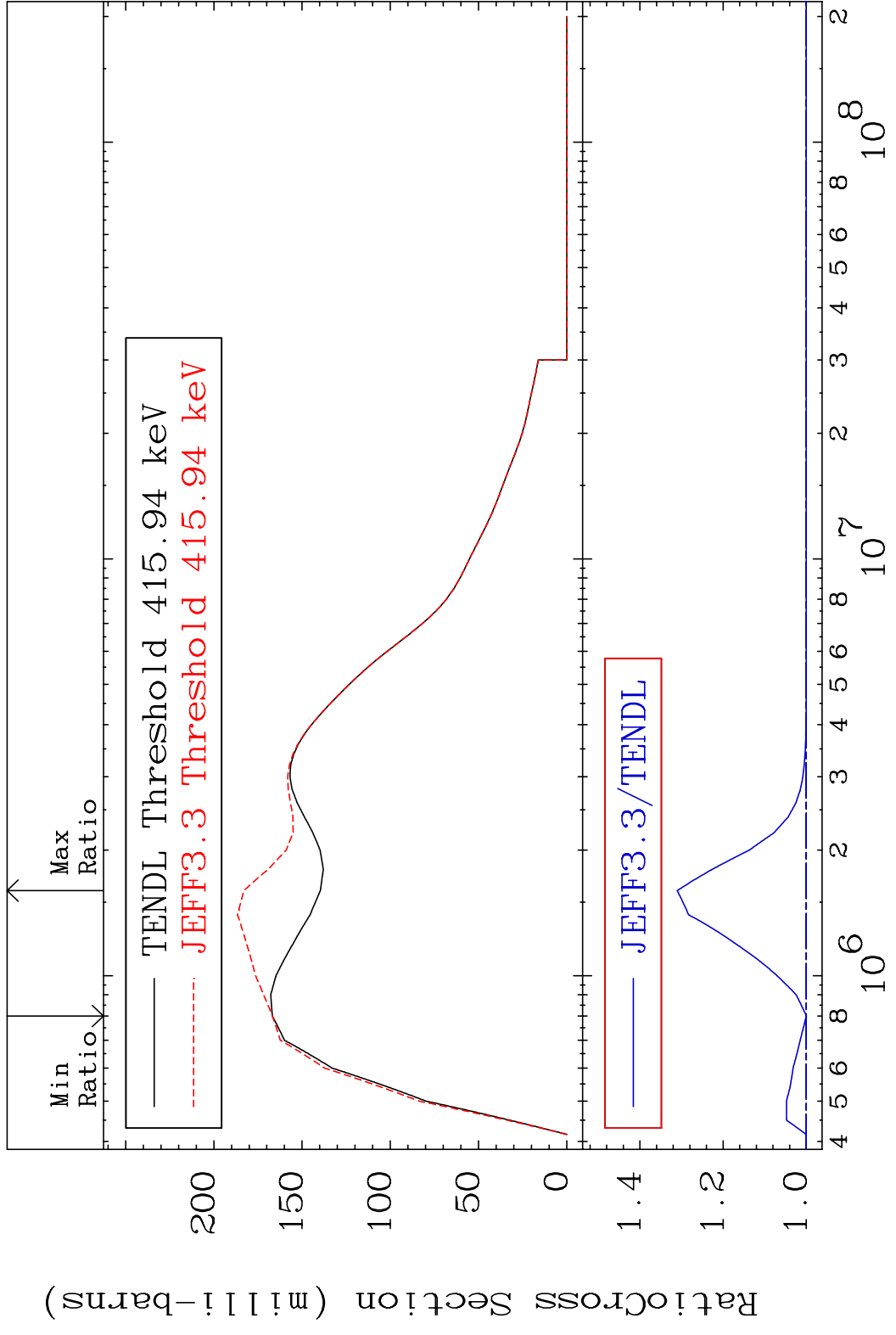
Incident Energy (eV)

80-Hg-199

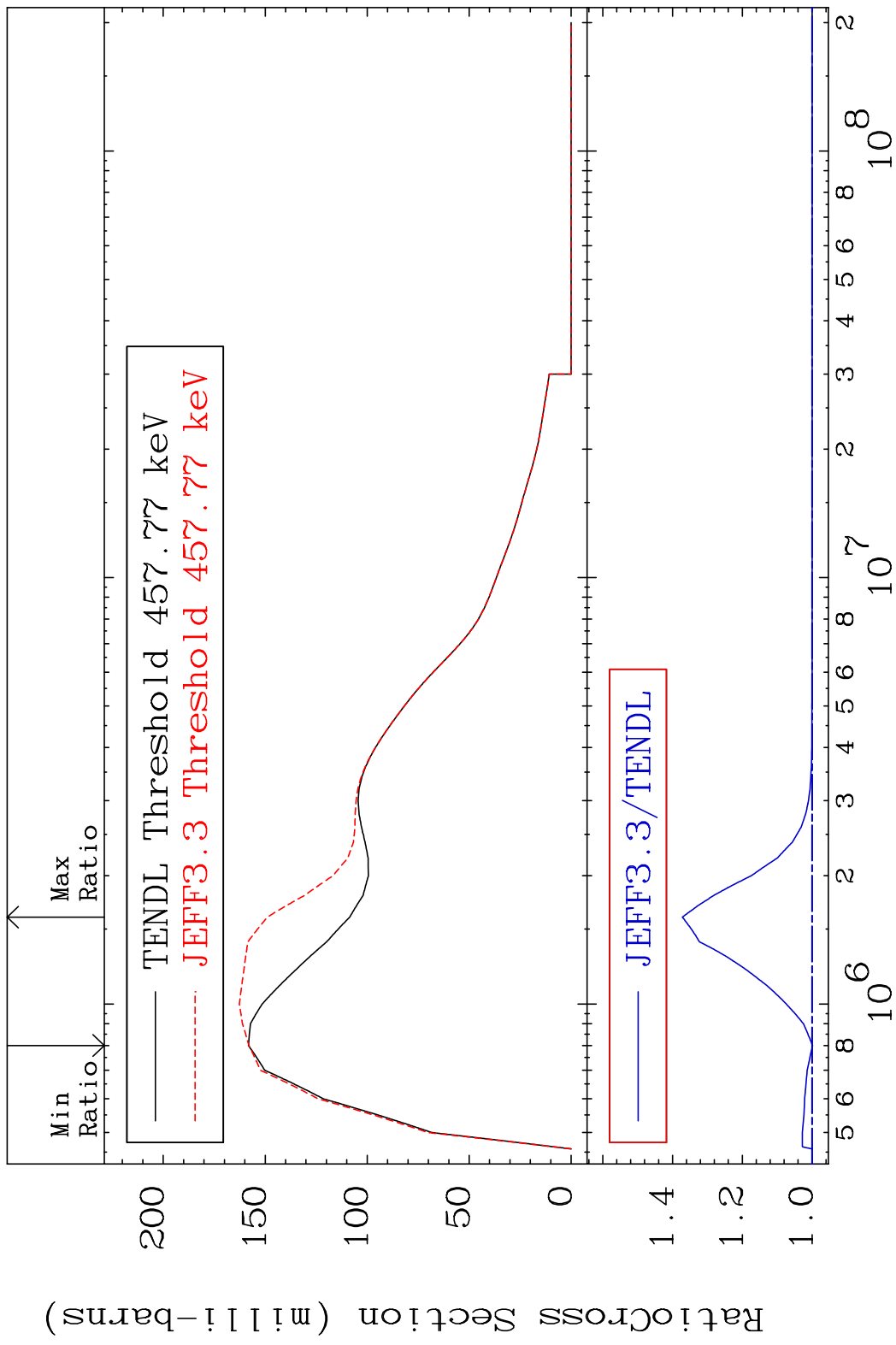
MAT 8034 MT= 53 (n, n') Level 80-Hg-199  
 Cross Section -100.0 To 71.55 %



MAT 8034 MT= 54 (n, n') Level 80-Hg-199  
 Cross Section -0.034 To 31.04 %

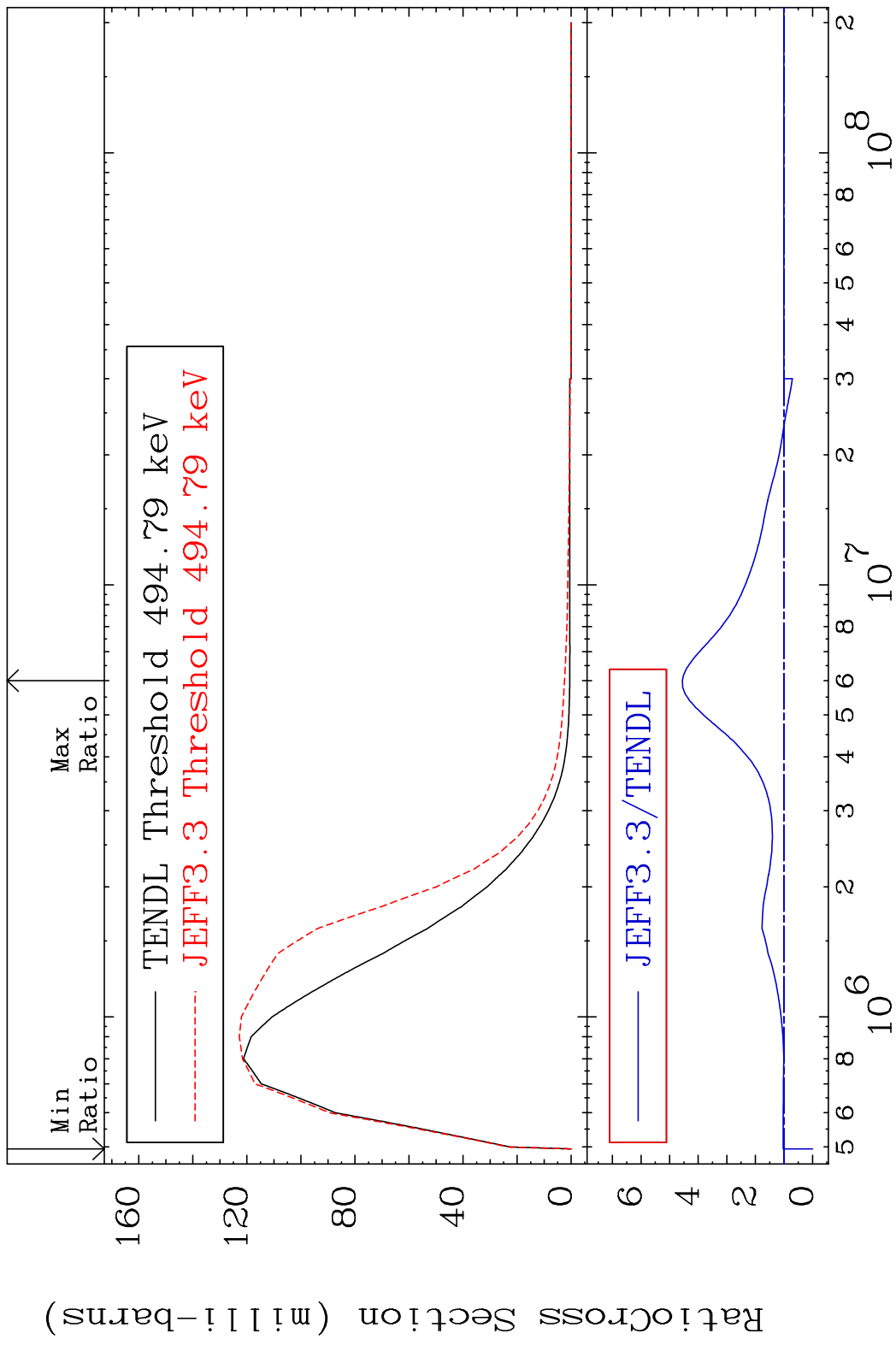


MAT 8034 MT= 55 (n,n') Level 80-Hg-199  
 Cross Section -0.140 To 37.18 %

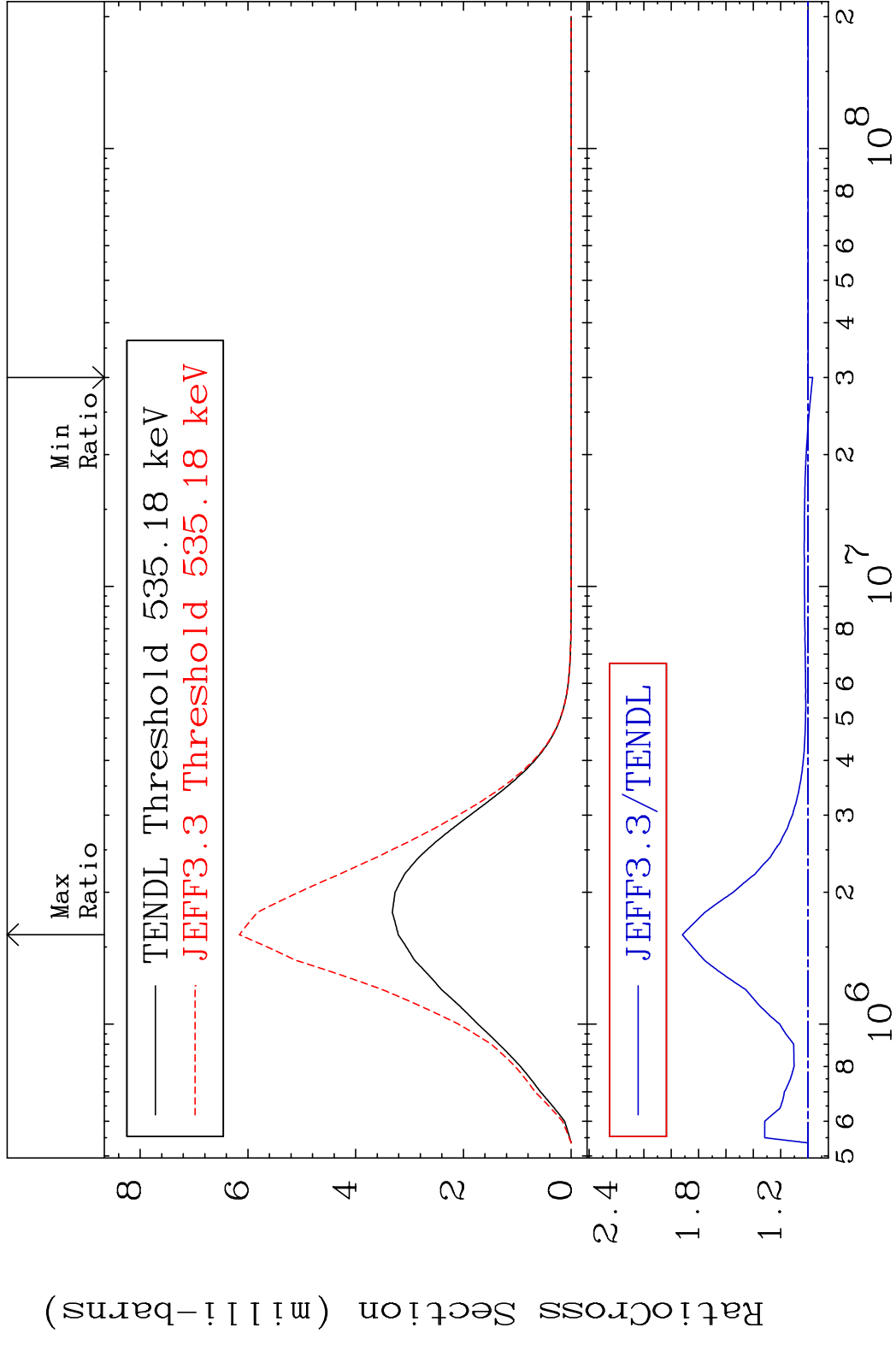




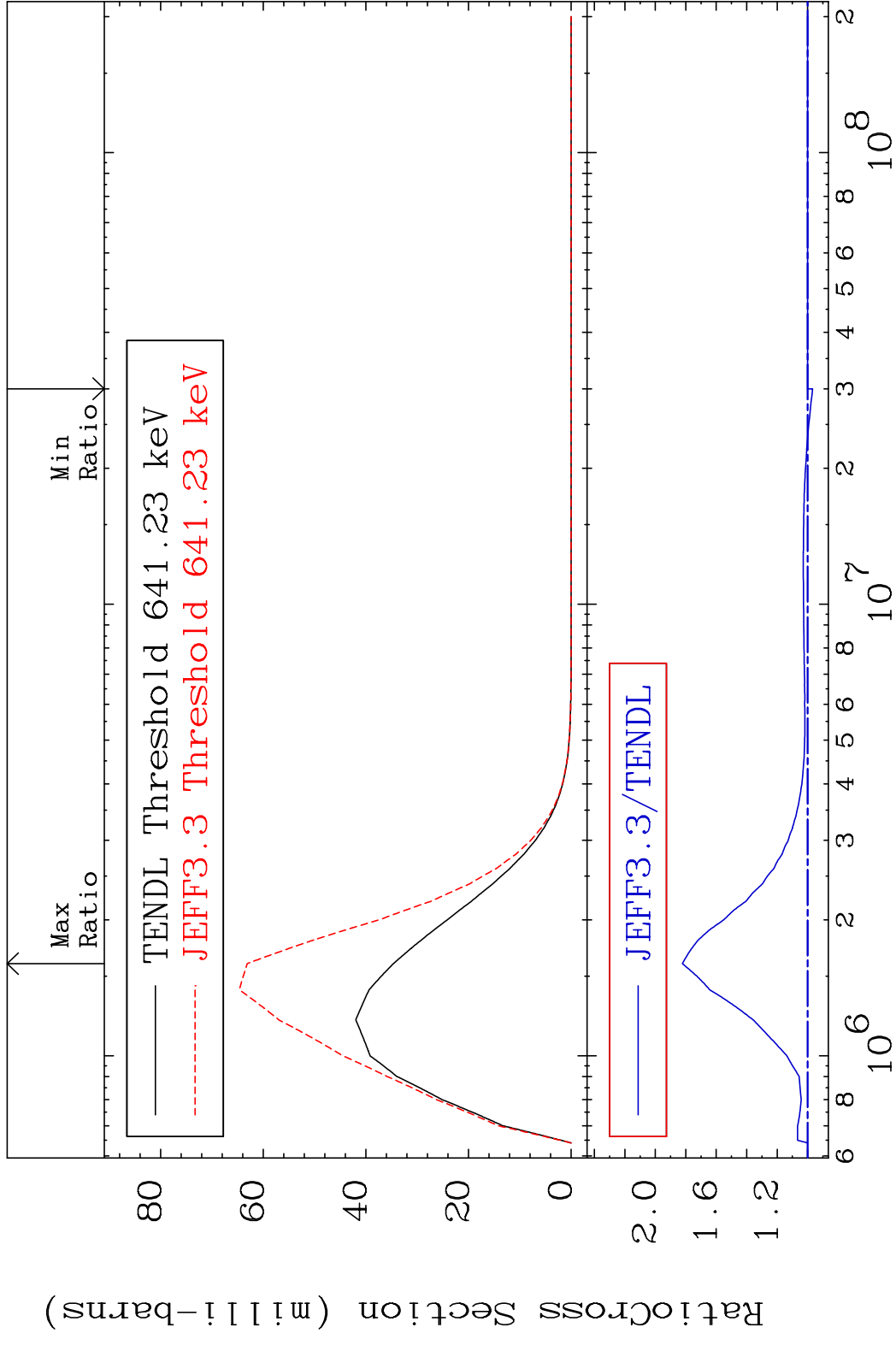
MAT 8034 MT= 56 (n, n') Level 80-Hg-199  
 Cross Section -100.0 To 355.4 %



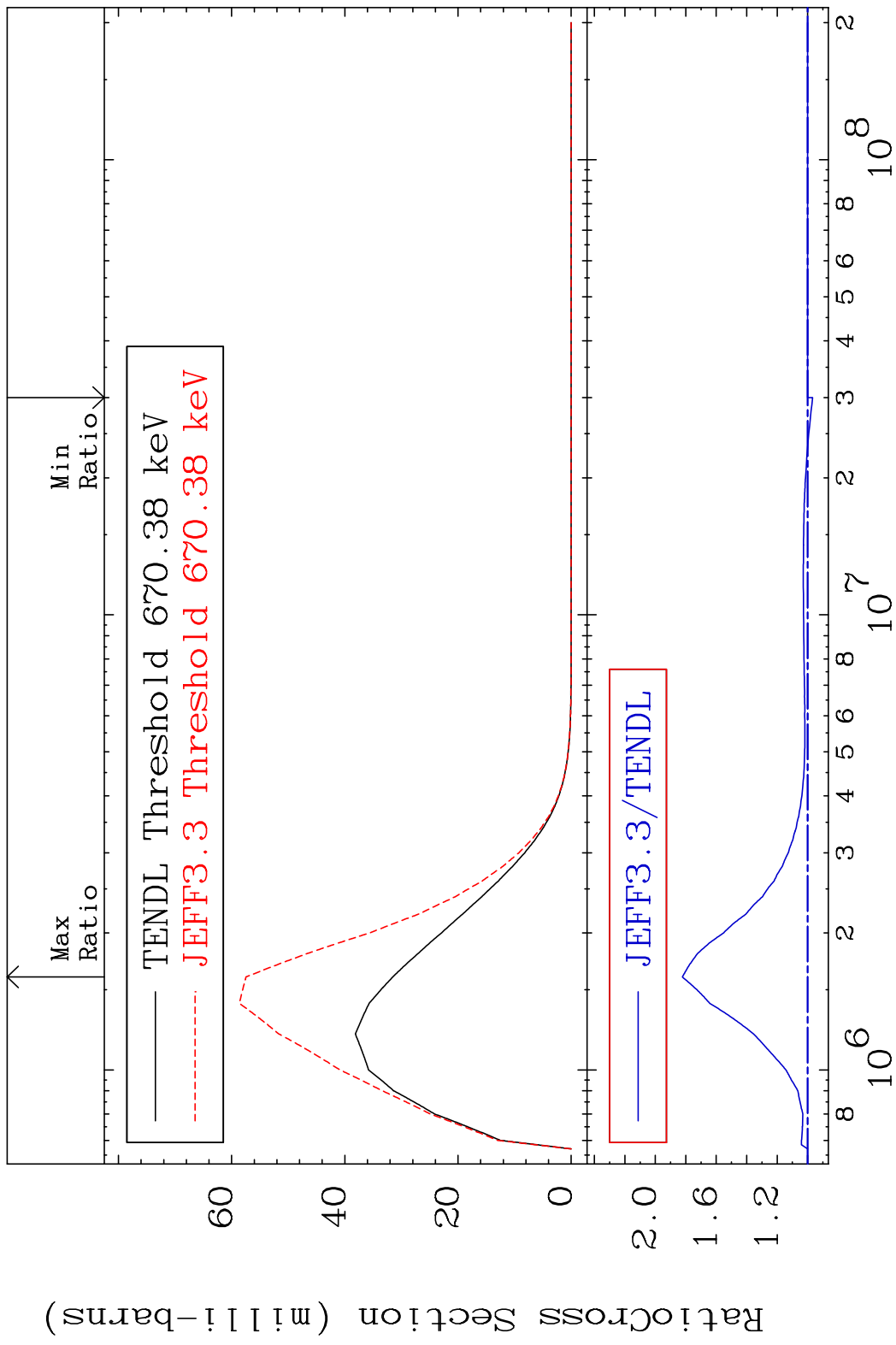
MAT 8034 MT= 57 (n, n') Level 80-Hg-199  
 Cross Section -3.247 To 91.91 %



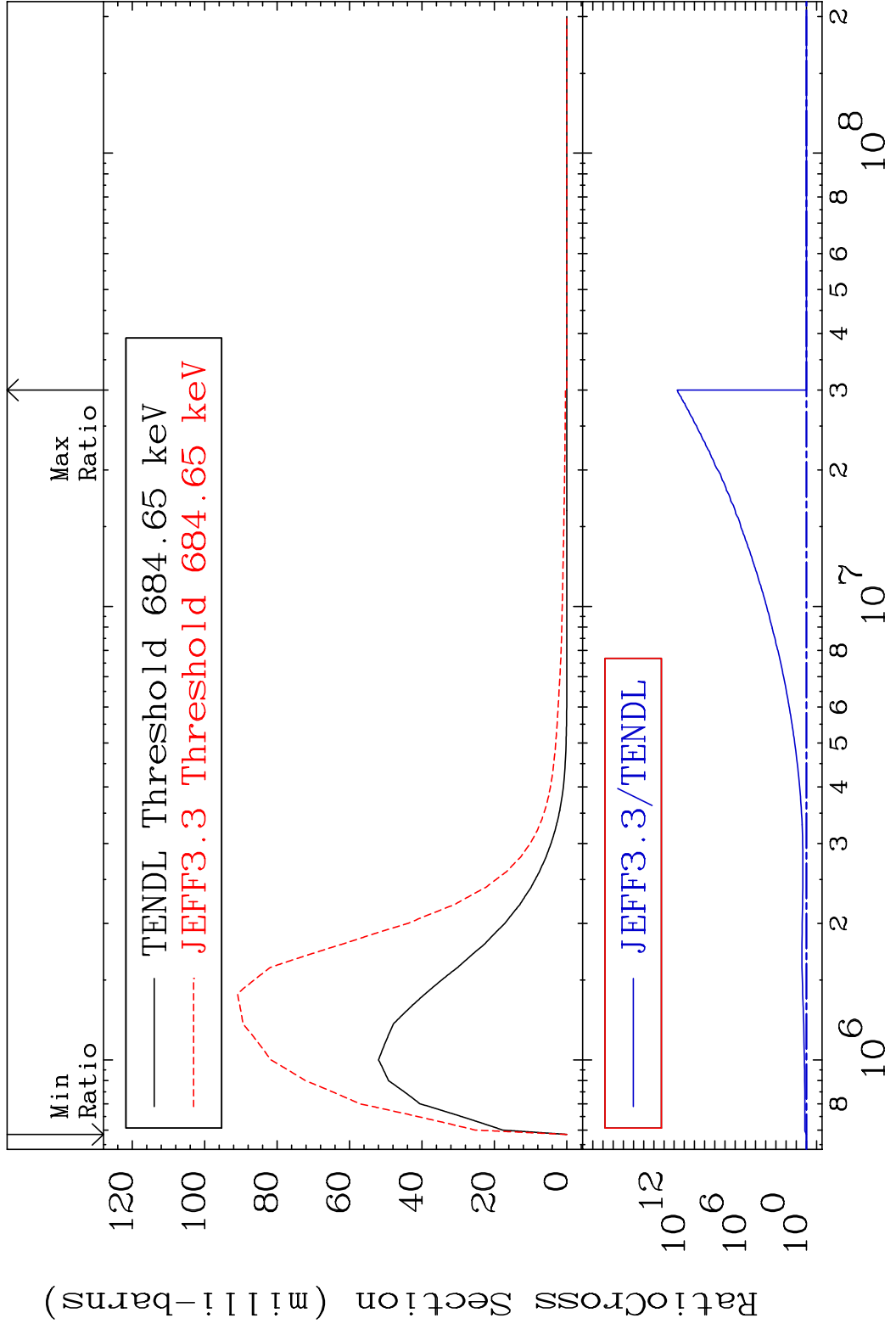
MAT 8034 MT= 58 (n, n') Level 80-Hg-199  
 Cross Section -3.237 To 82.25 %



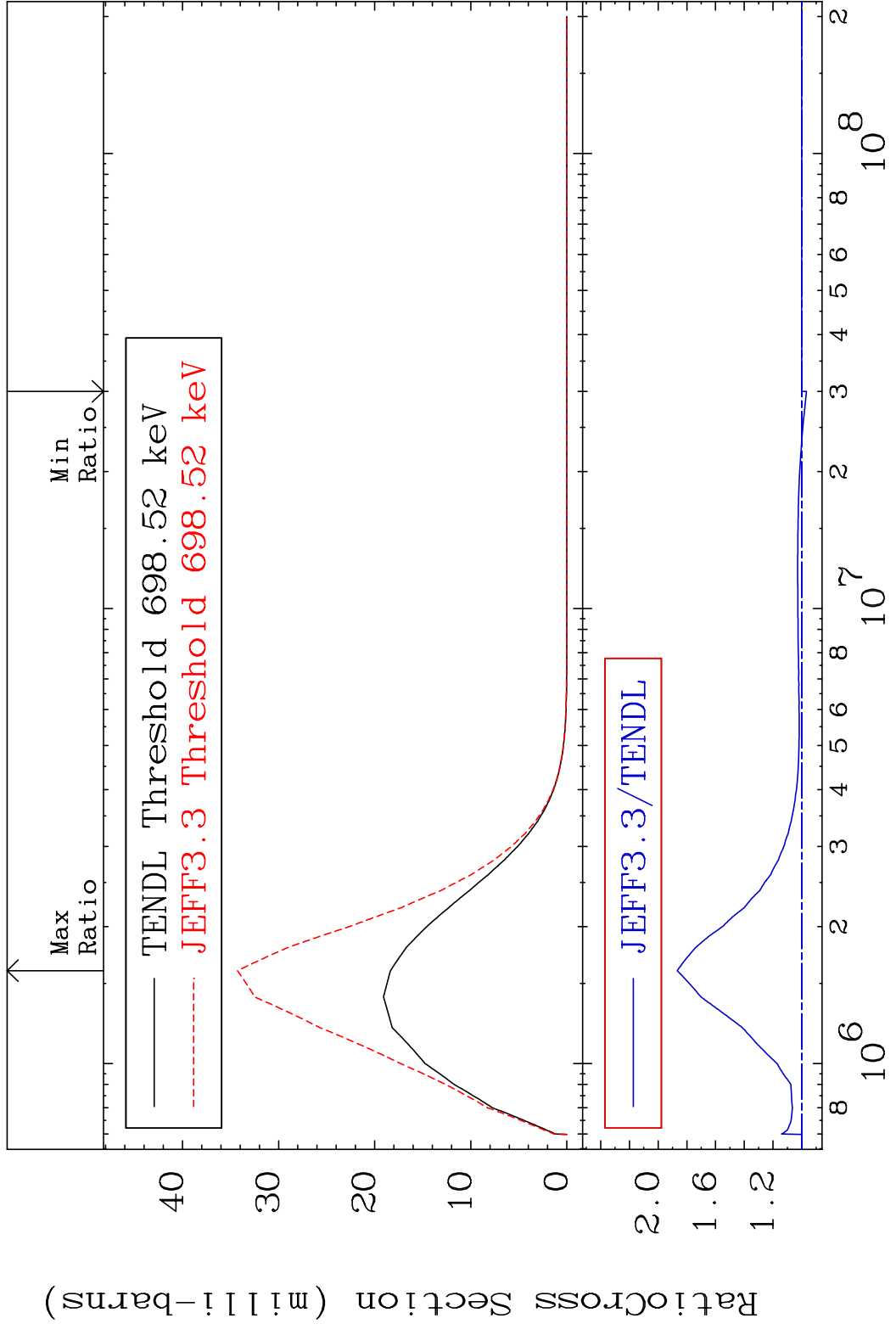
MAT 8034 MT= 59 (n, n') Level 80-Hg-199  
 Cross Section -3.237 To 82.25 %



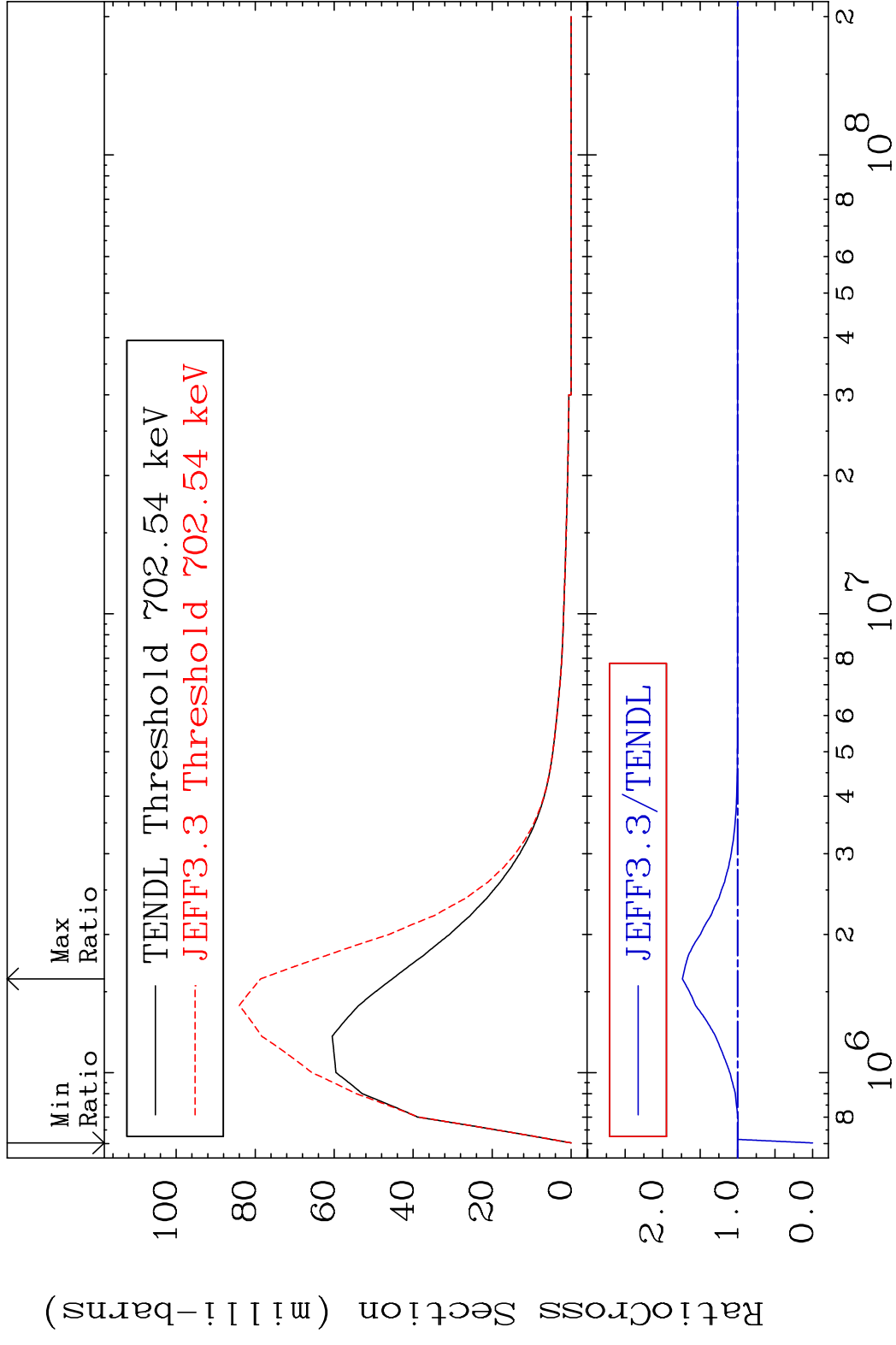
MAT 8034 MT= 60 (n, n') Level 80-Hg-199  
 Cross Section 0.000 To 9999. %



MAT 8034 MT= 61 (n, n') Level 80-Hg-199  
 Cross Section -3.240 To 86.73 %

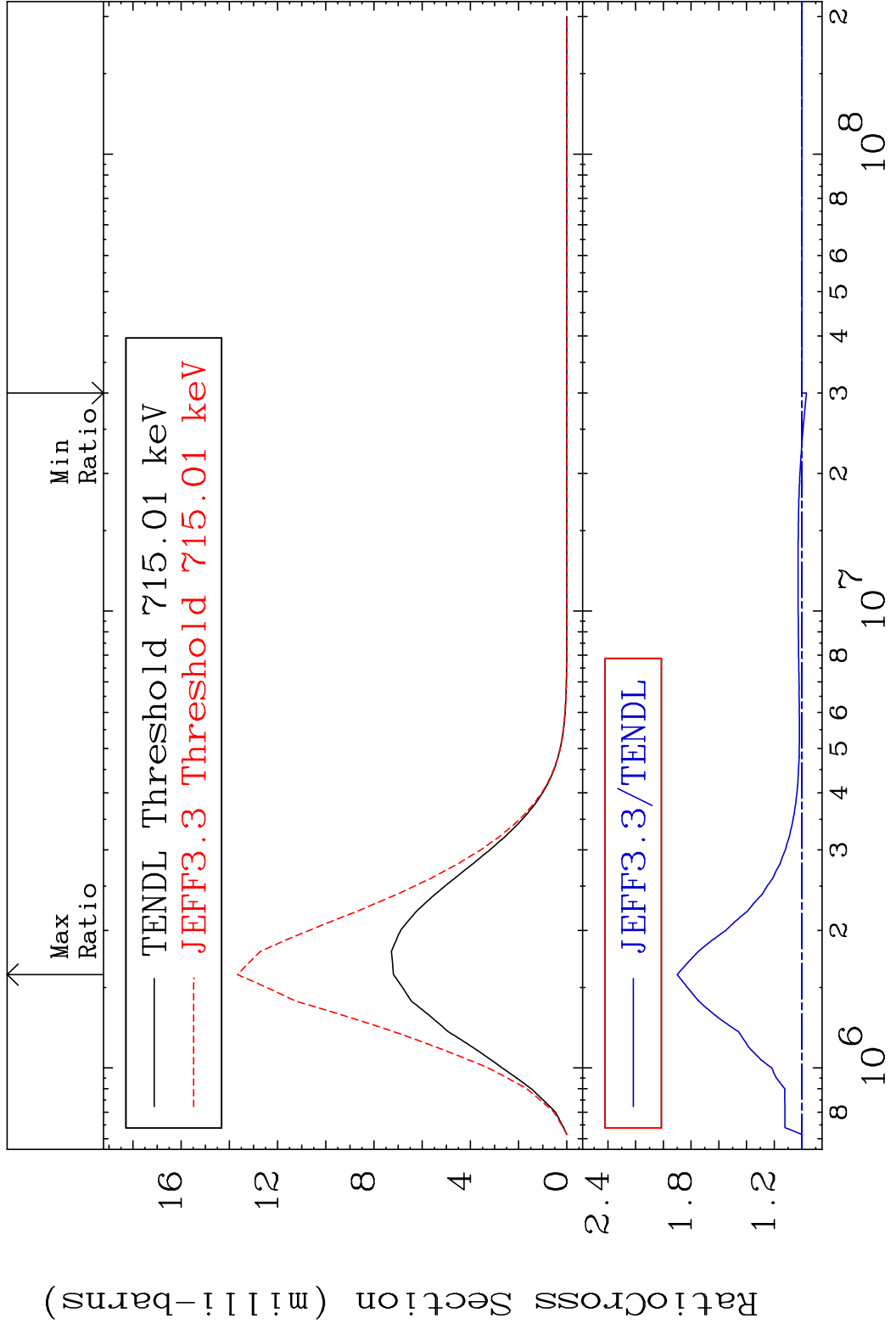


MAT 8034 MT= 62 (n, n') Level 80-Hg-199  
 Cross Section -100.0 To 73.71 %



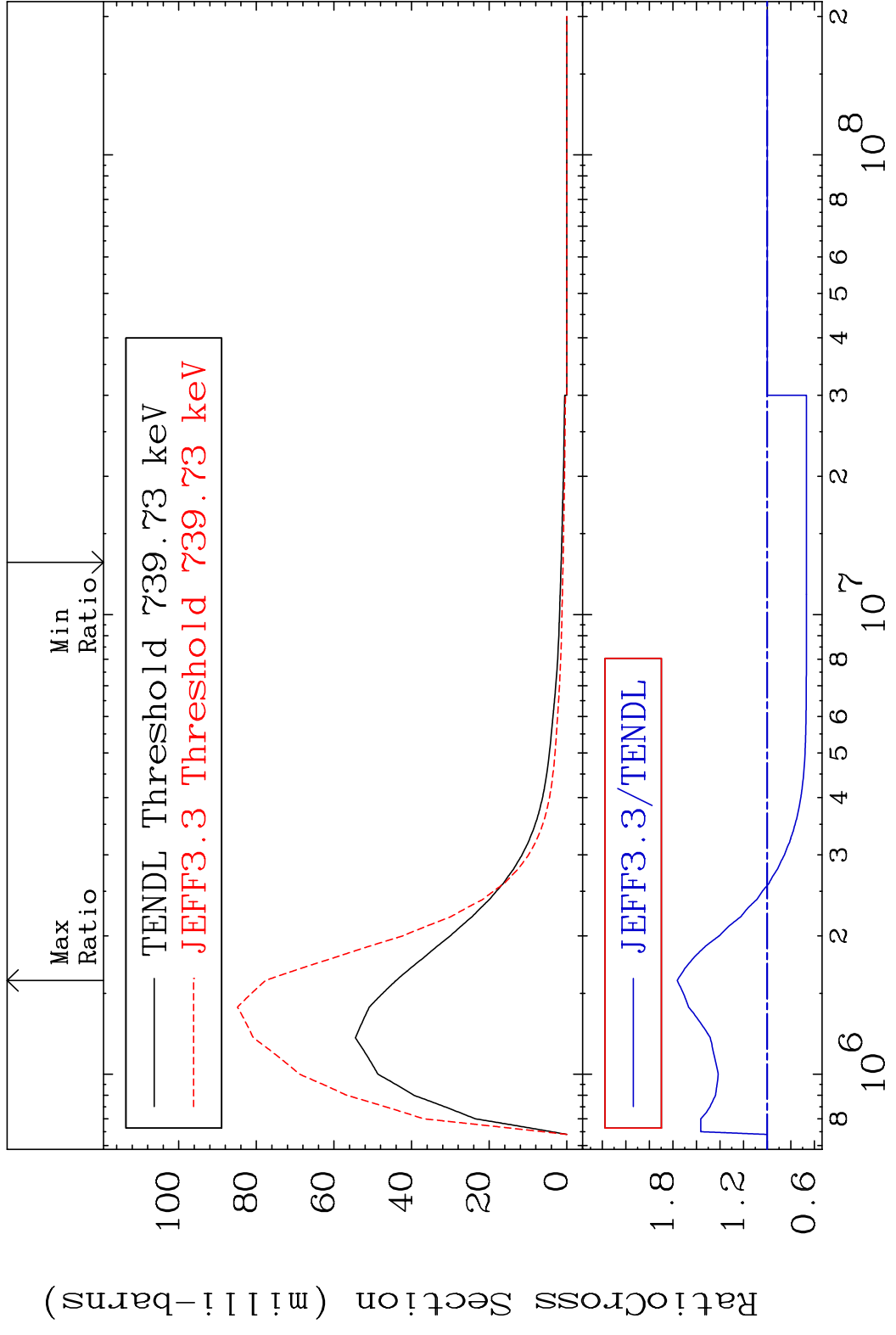
30 Incident Energy (eV) 80-Hg-199

MAT 8034 MT= 63 (n, n') Level 80-Hg-199  
 Cross Section -3.243 To 90.03 %

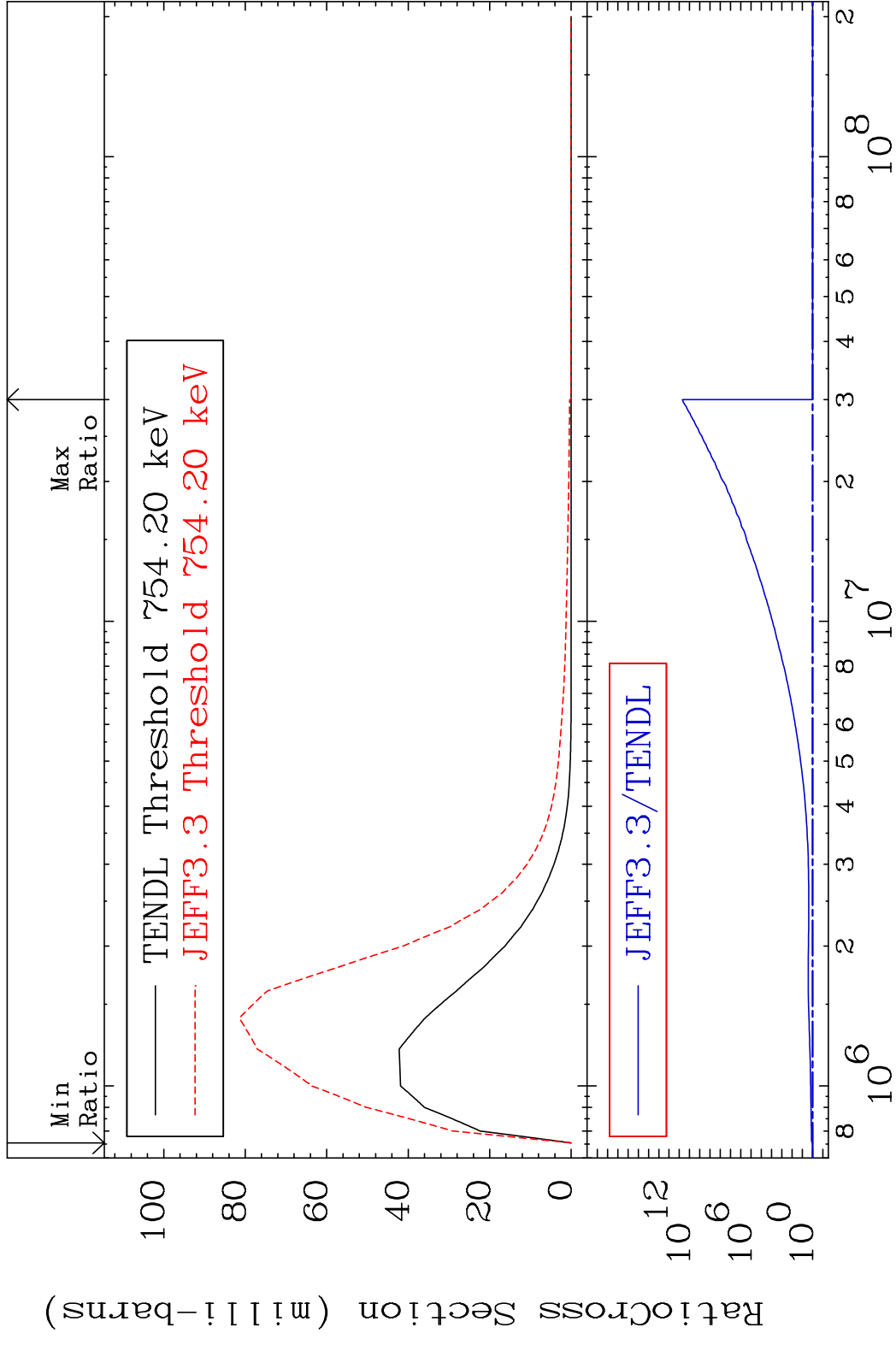




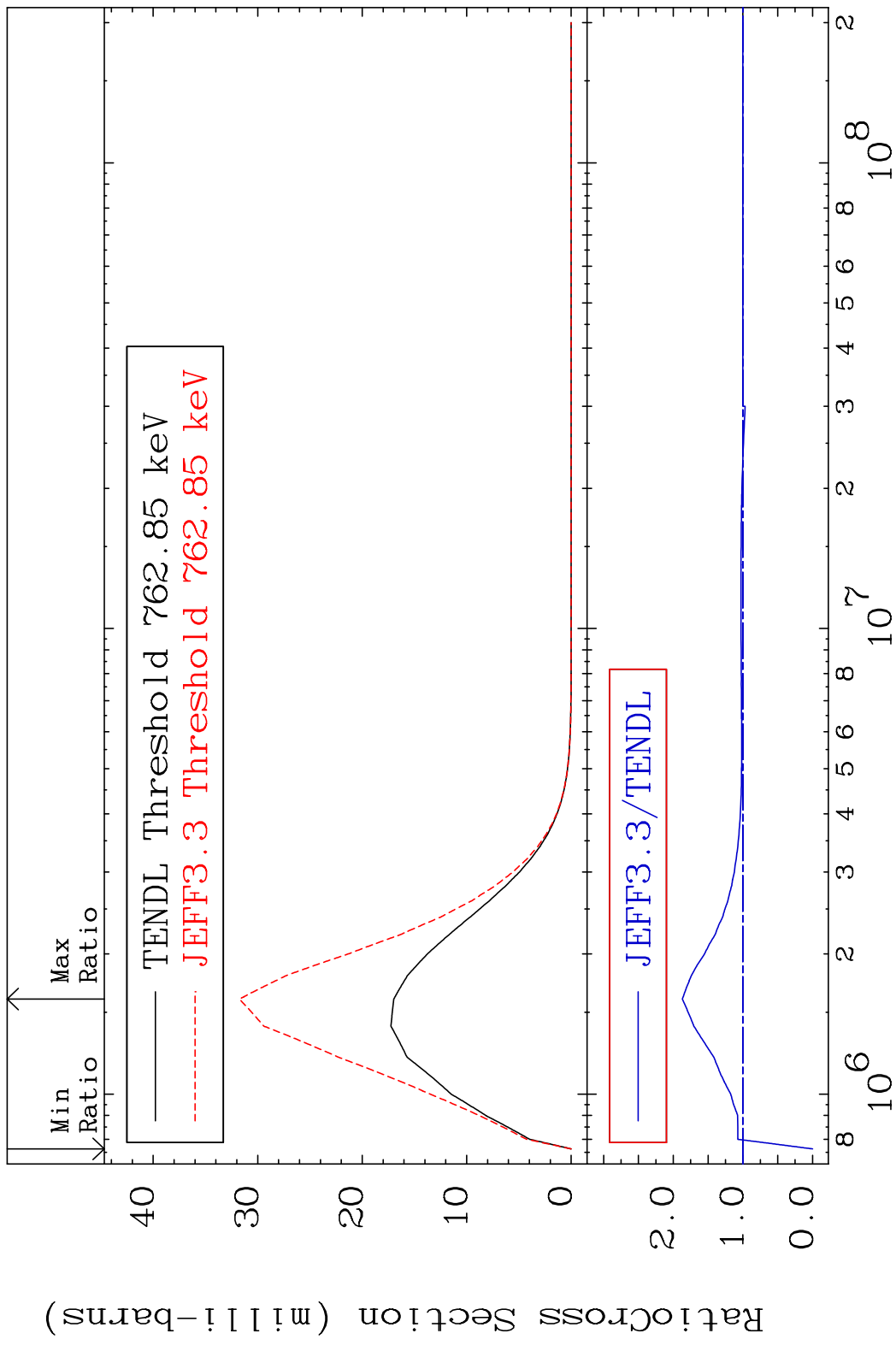
MAT 8034 MT= 64 (n, n') Level 80-Hg-199  
 Cross Section -33.31 To 76.45 %



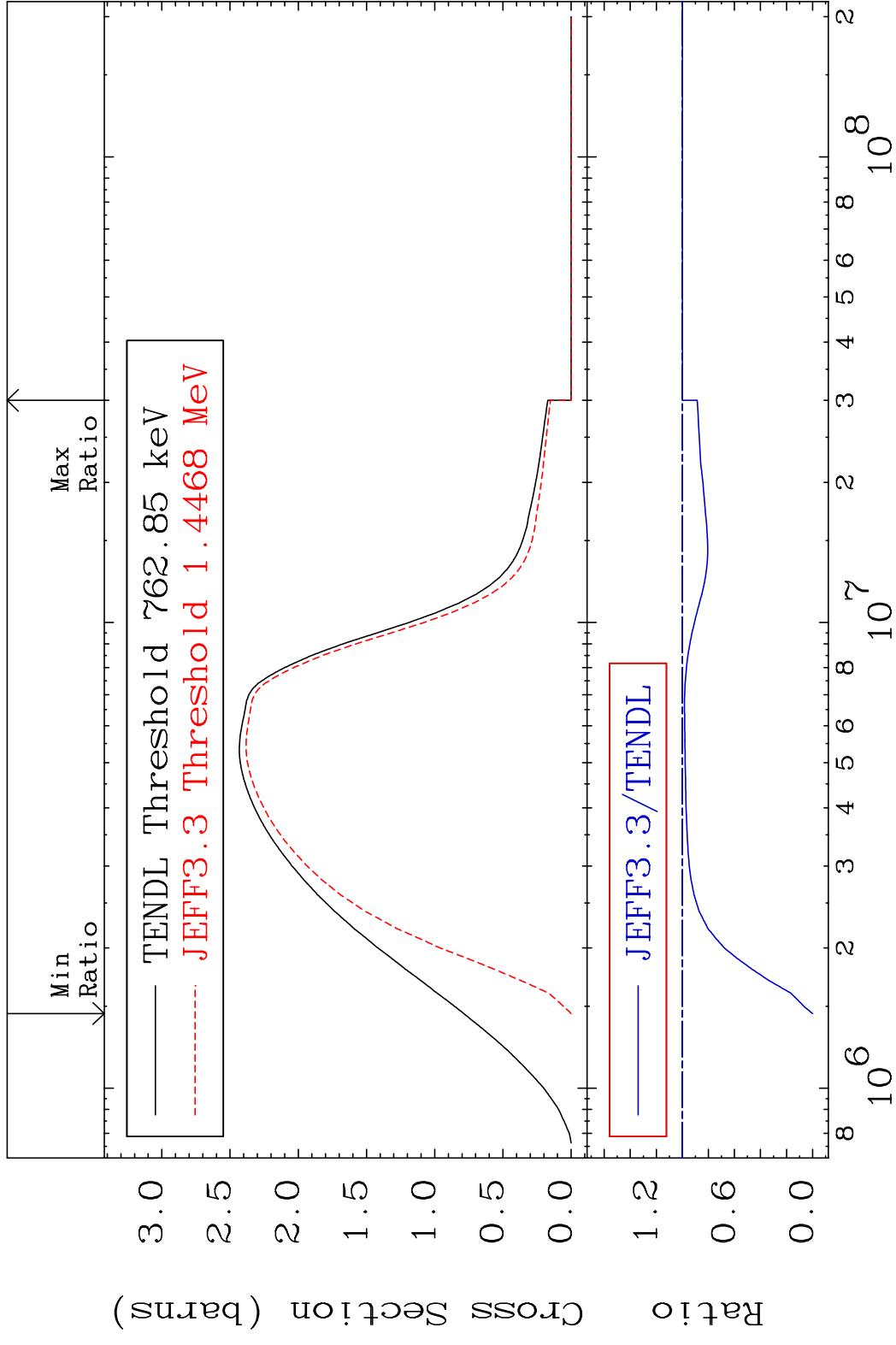
MAT 8034 MT= 65 (n, n') Level 80-Hg-199  
 Cross Section 0.000 To 9999. %



MAT 8034 MT= 66 (n, n') Level 80-Hg-199  
 Cross Section -100.0 To 87.00 %

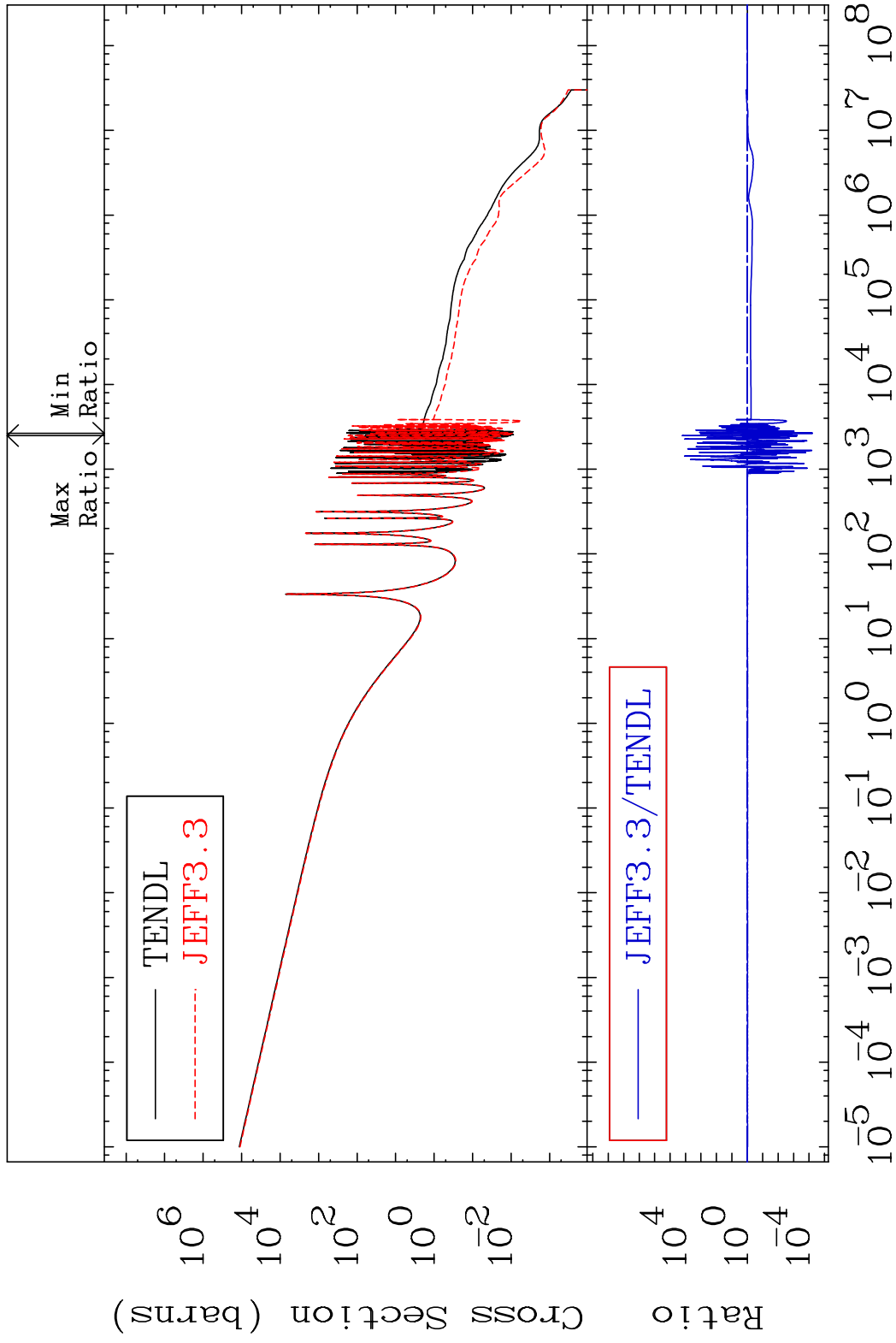


MAT 8034 (n, n') Continuum 80-Hg-199  
 Cross Section -100.0 To 0.000 %



MAT 8034

(n,  $\gamma$ )  
Cross Section      80-Hg-199  
-99.99 To 9999. %



36

Incident Energy (eV)

80-Hg-199

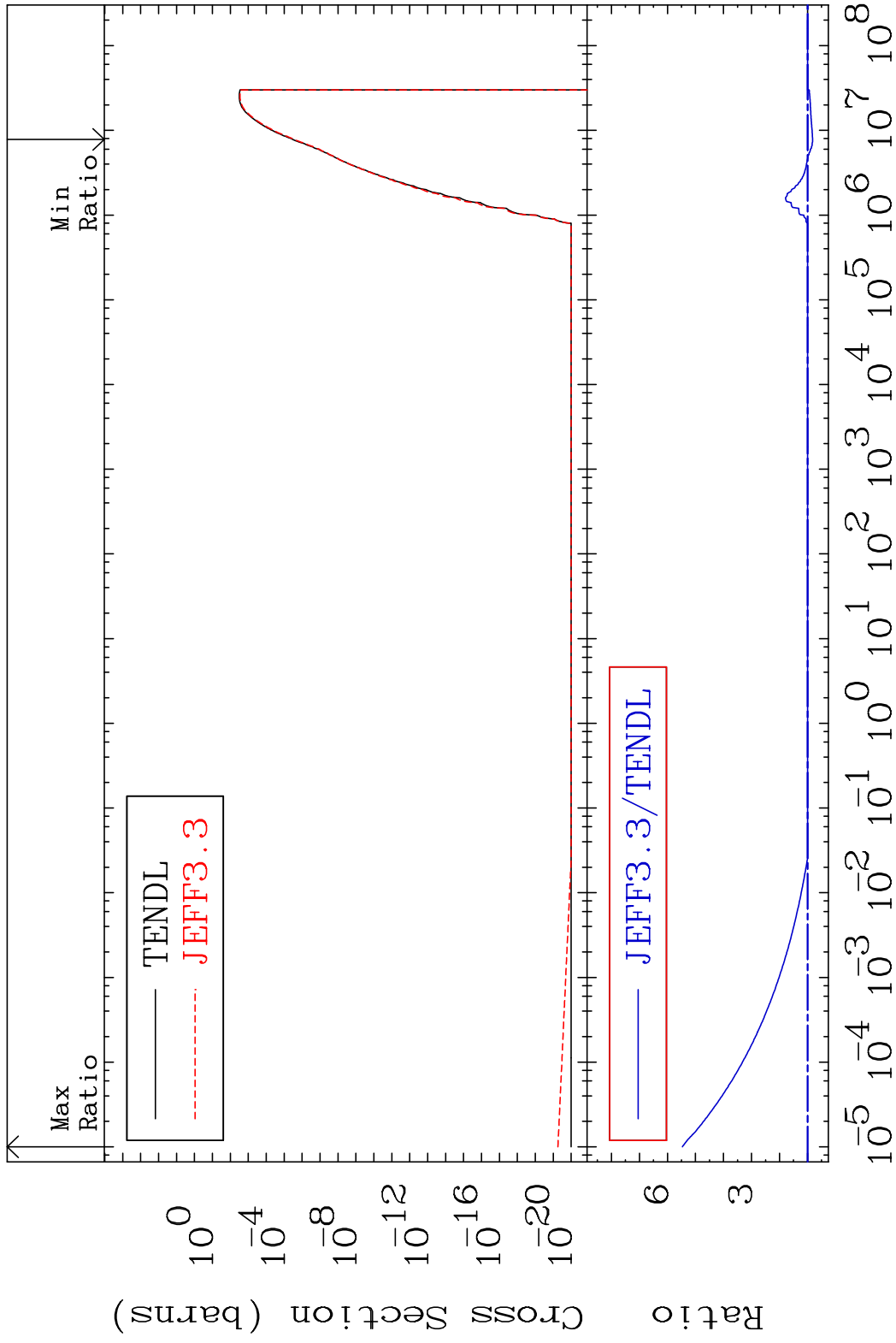
MAT 8034

(n, p)

80-Hg-199

Cross Section

-17.88 To 446.8 %



37

Incident Energy (eV)

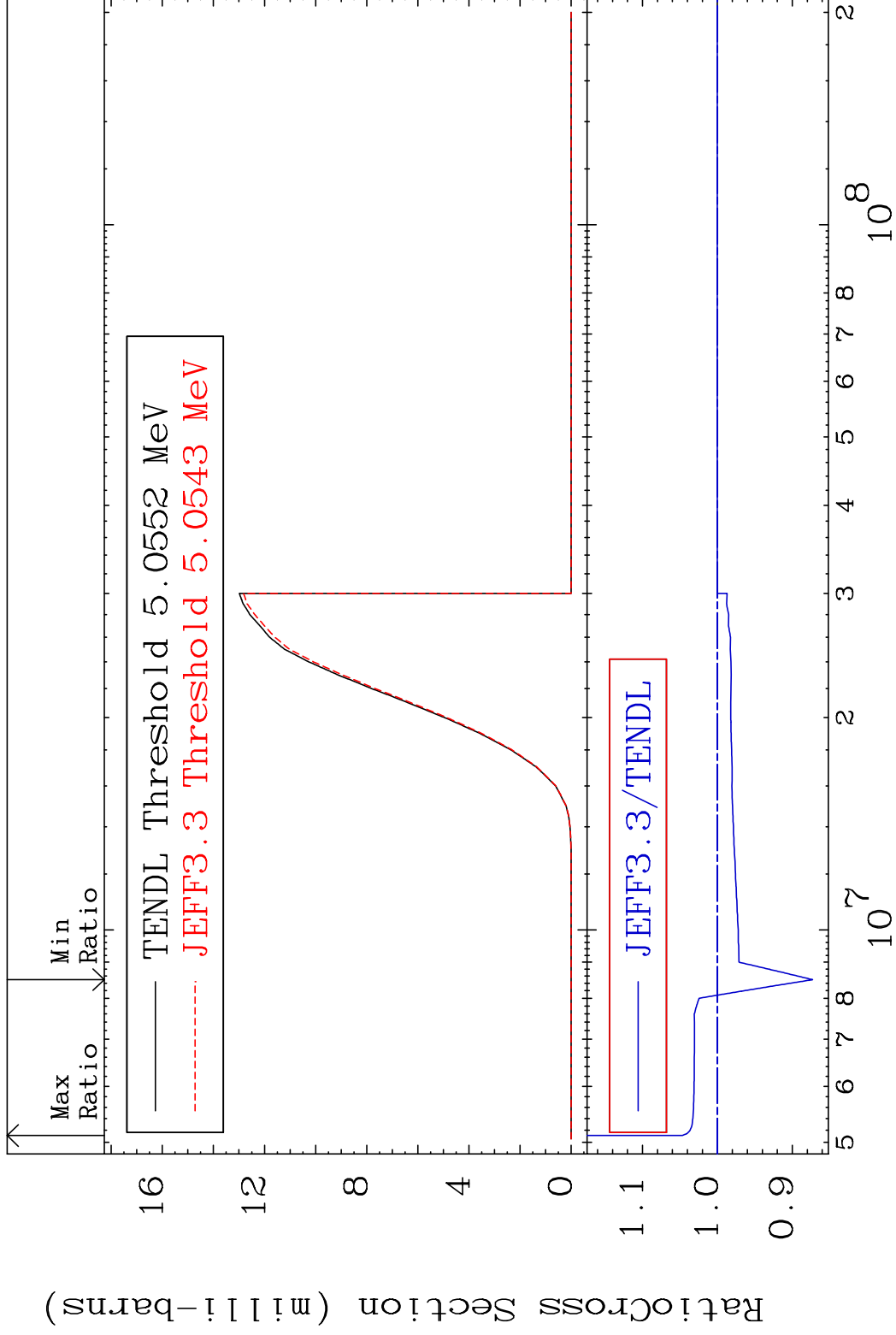
80-Hg-199

MAT 8034

(n,d)

80-Hg-199

Cross Section -12.71 To 4.678 %



38

Incident Energy (eV)

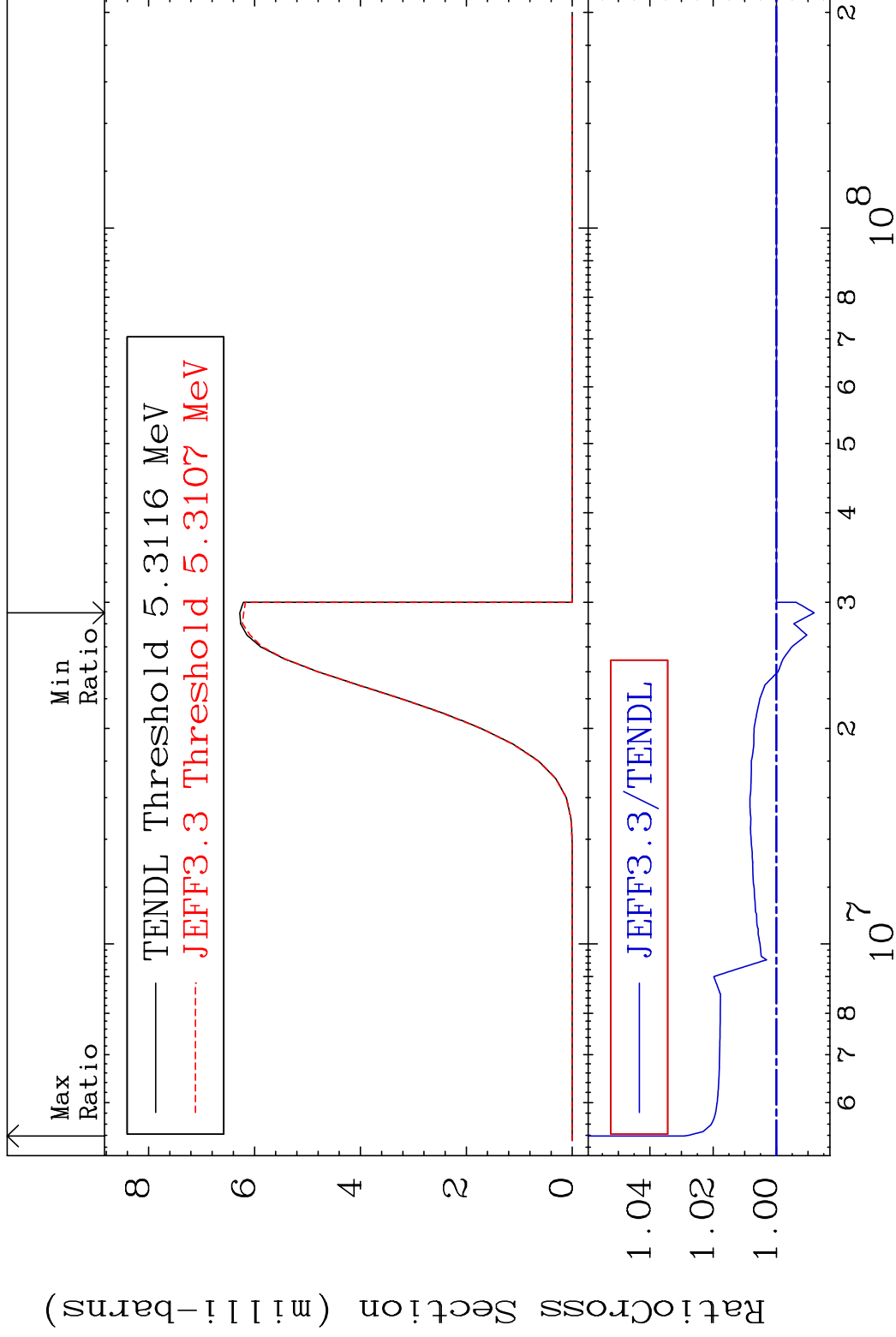
80-Hg-199

MAT 8034

(n, t)

80-Hg-199

Cross Section -1.193 To 2.932 %



39

Incident Energy (eV)

80-Hg-199



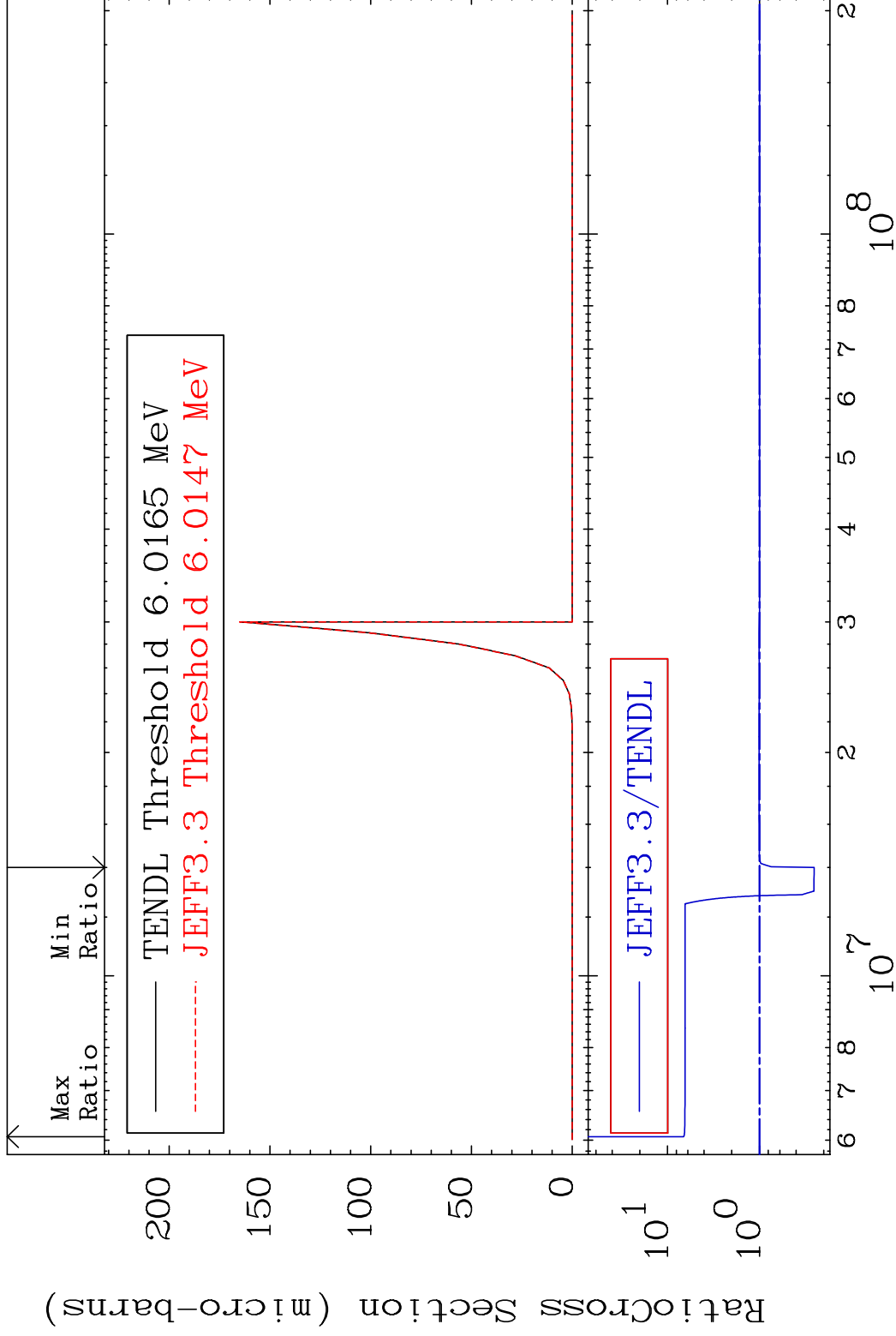
MAT 8034

(n, He-3)

80-Hg-199

Cross Section

-74.57 To 567.2 %



40

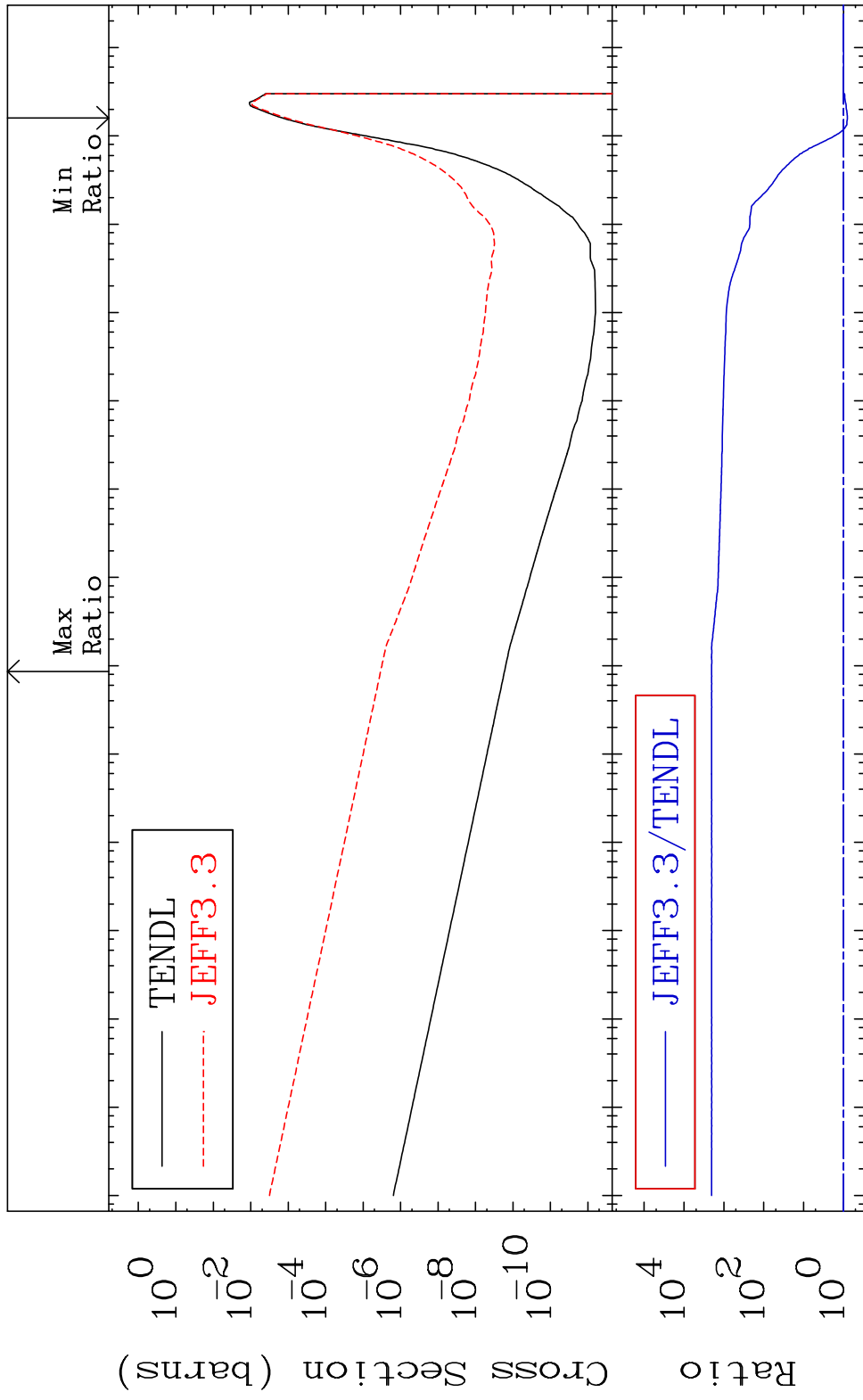
Incident Energy (eV)

80-Hg-199

MAT 8034

(n,  $\alpha$ )  
Cross Section -19.87 To 9999. %

80-Hg-199



41

Incident Energy (eV)

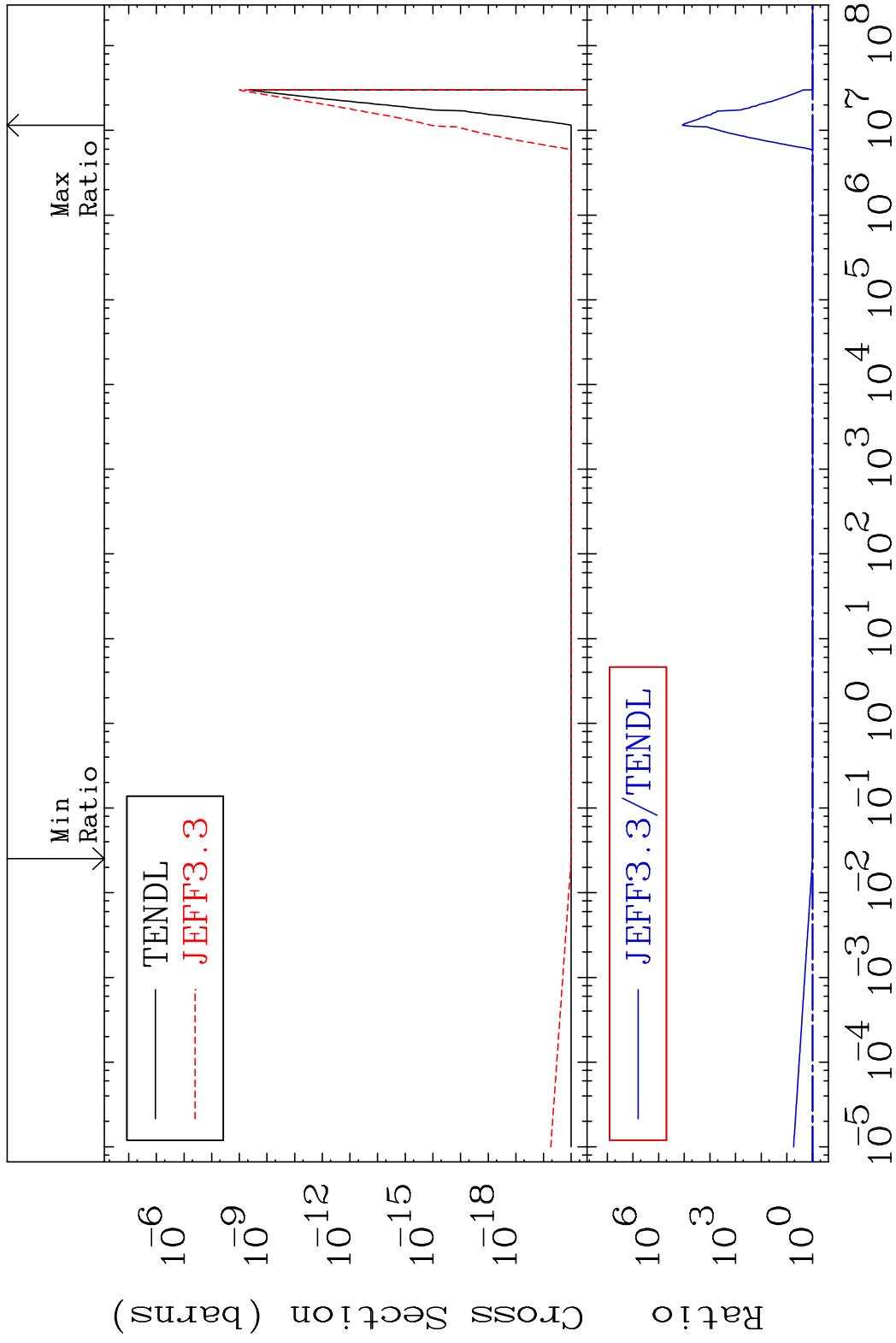
80-Hg-199

MAT 8034

(n,2α)

80-Hg-199

Cross Section 0.000 To 9999. %



42

Incident Energy (eV)

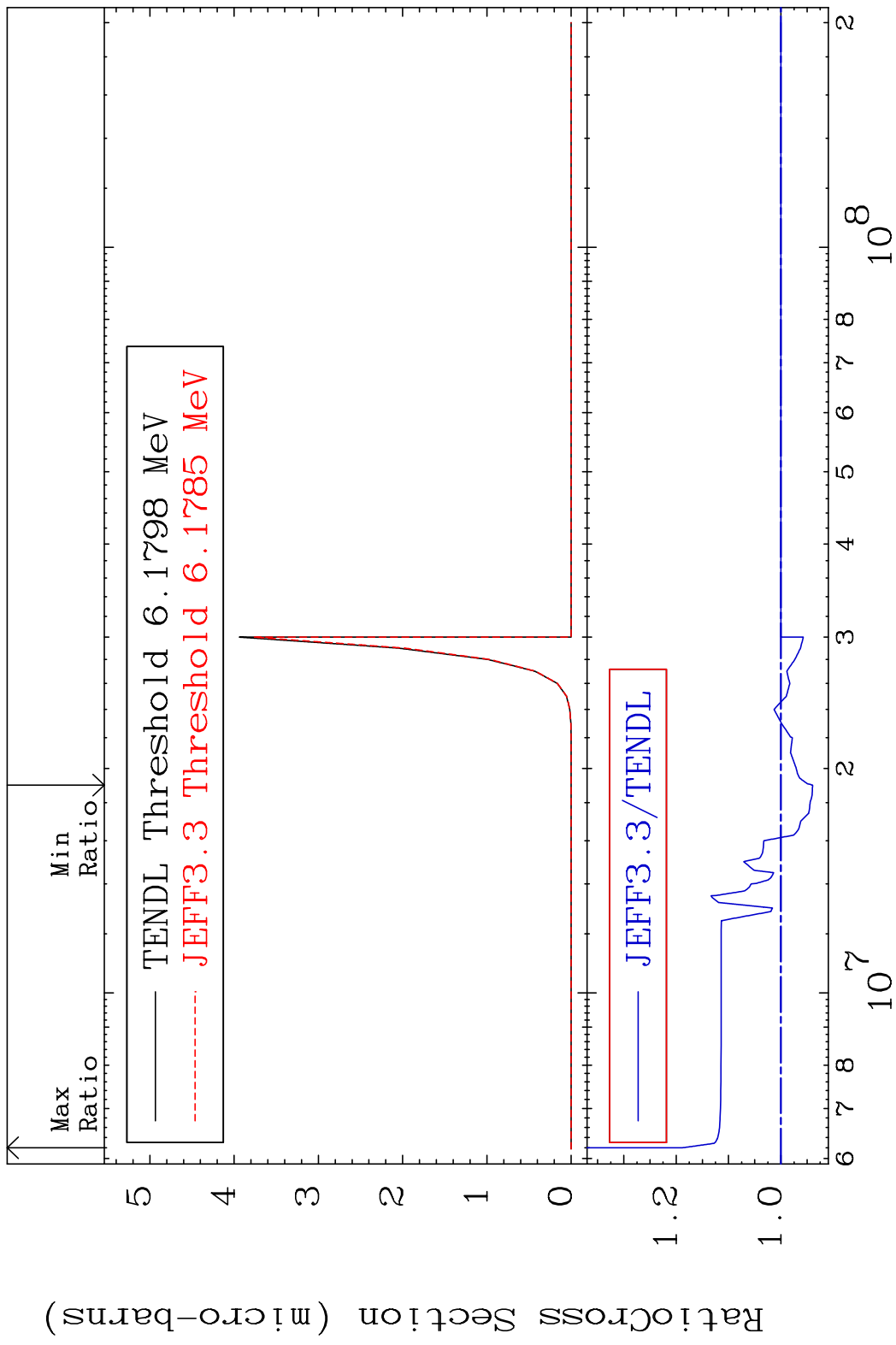
80-Hg-199

MAT 8034

(n,2p)

80-Hg-199

Cross Section -6.039 To 18.83 %



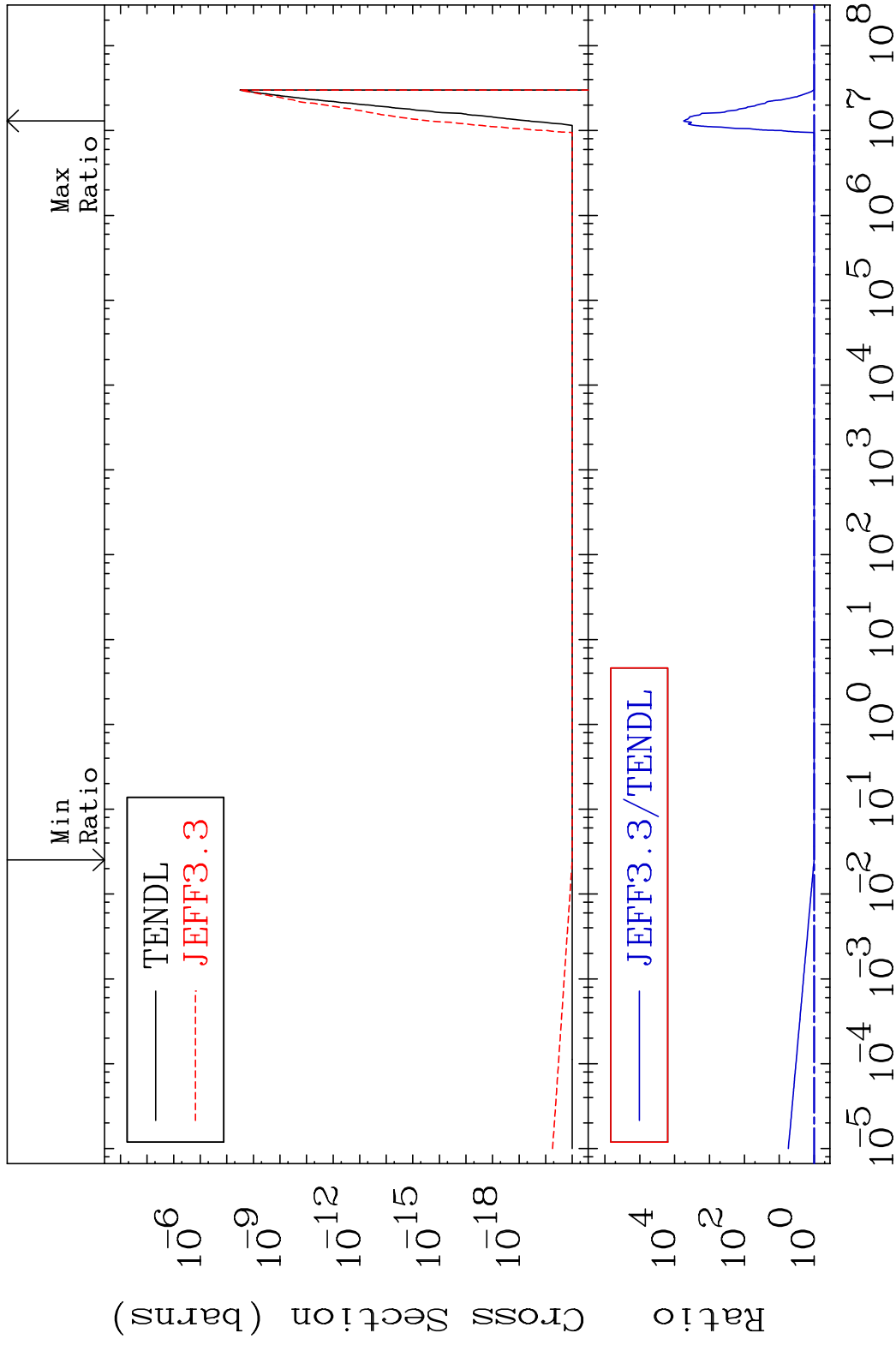
43

Incident Energy (eV)

80-Hg-199

MAT 8034

(n,p)  $\alpha$  80-Hg-199  
Cross Section 0.000 To 9999. %



44

Incident Energy (eV)

80-Hg-199



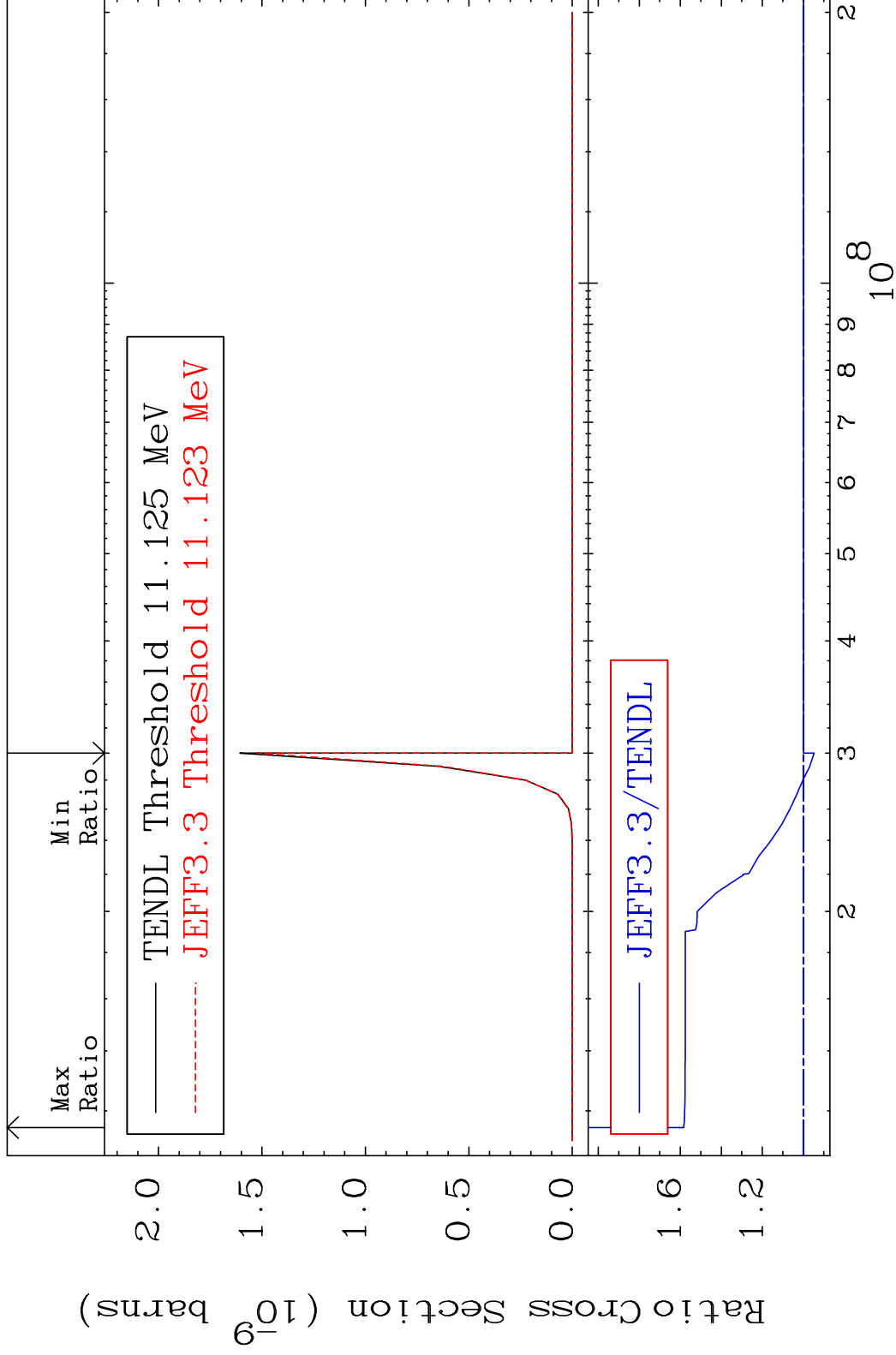
MAT 8034

(n,p) t

80-Hg-199

Cross Section

-5.268 To 58.35 %



46

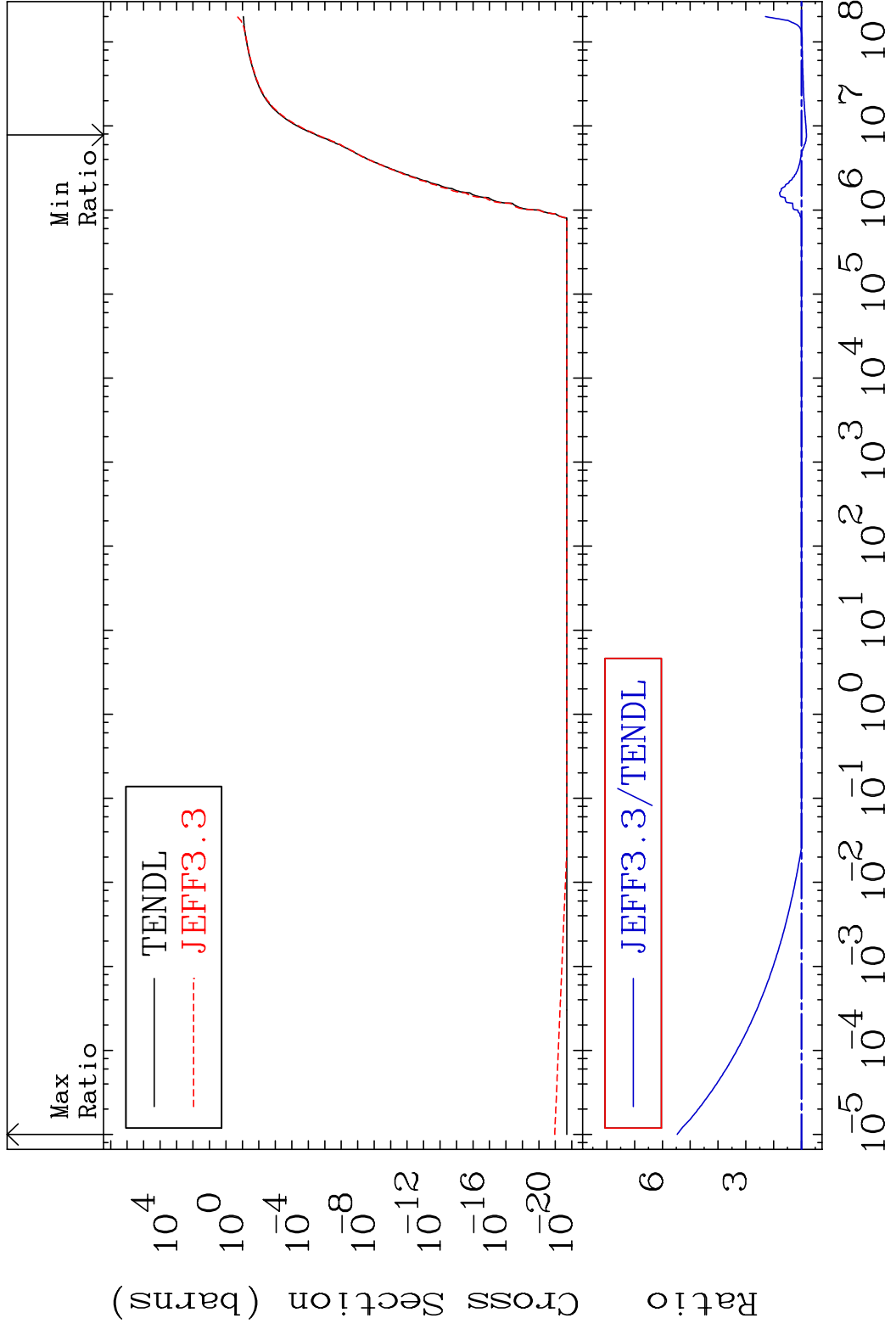
Incident Energy (eV)

80-Hg-199

MAT 8034

Hydrogen Production  
Cross Section -17.88 To 446.8 %

80-Hg-199  
To 446.8 %



47

Incident Energy (eV)

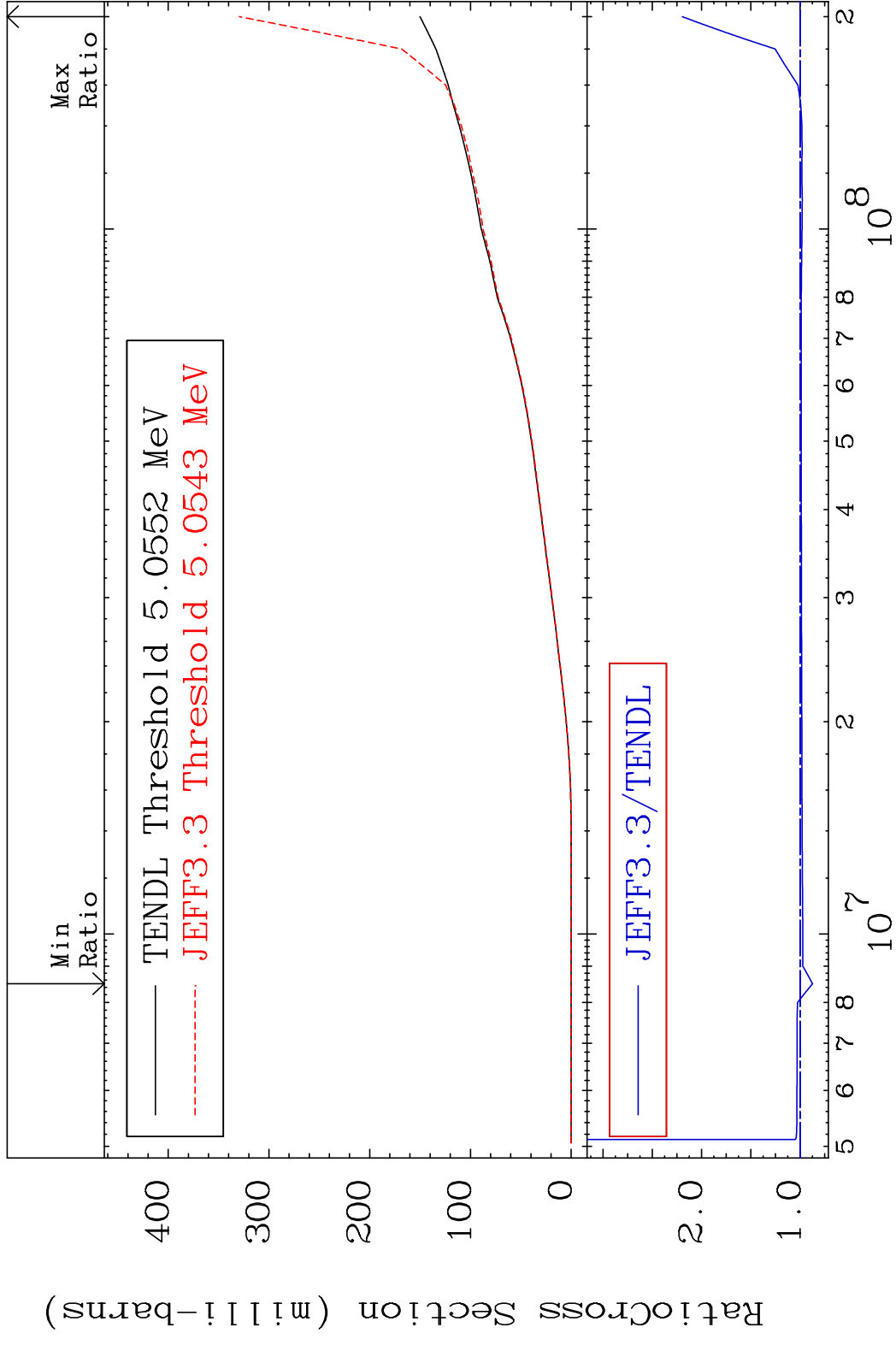
80-Hg-199



MAT 8034

Deuterium Production  
Cross Section -12.71 To 119.5 %

80-Hg-199



48

Incident Energy (eV)

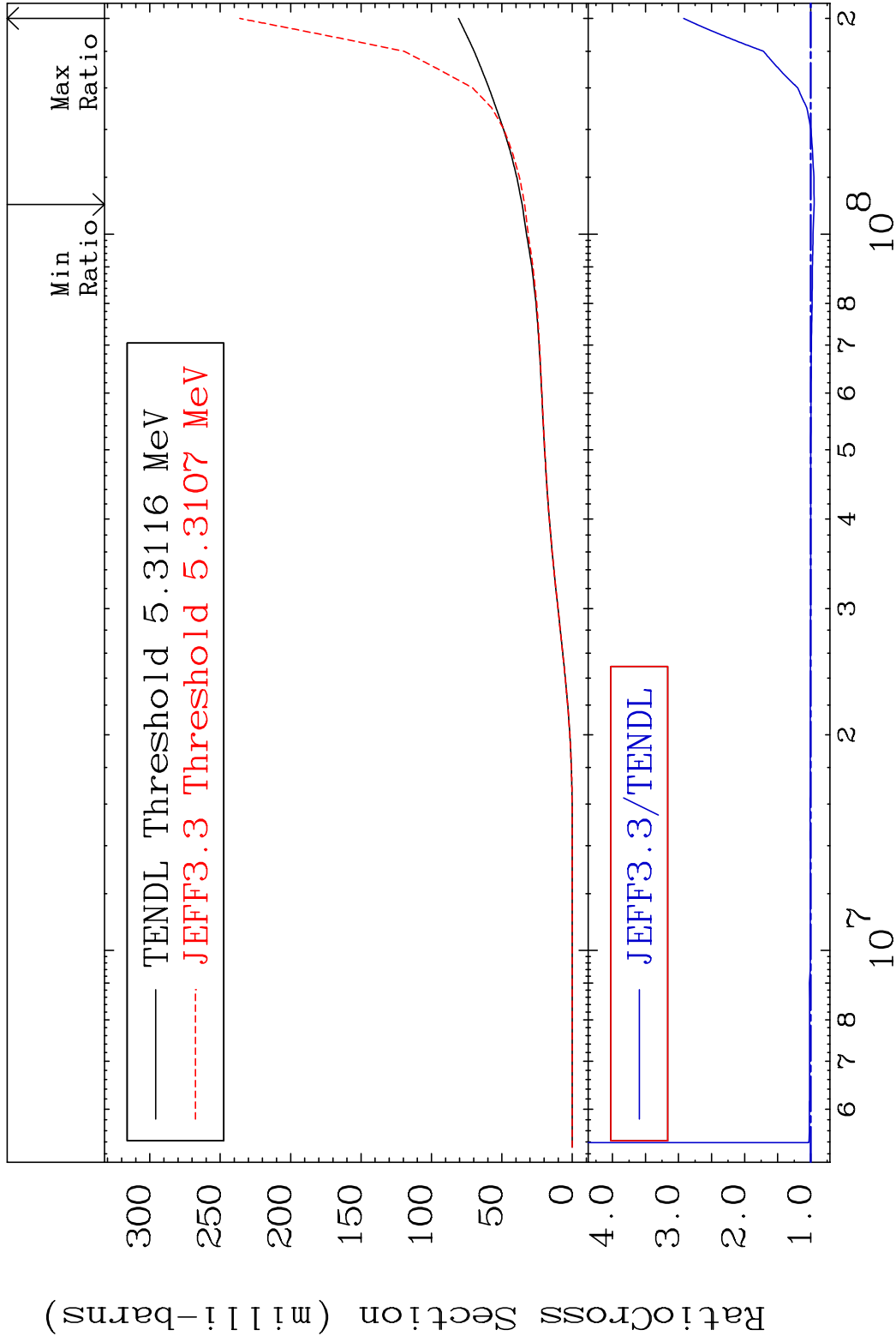
80-Hg-199

MAT 8034

Tritium Production

80-Hg-199

Cross Section -5.164 To 192.3 %



49

Incident Energy (eV)

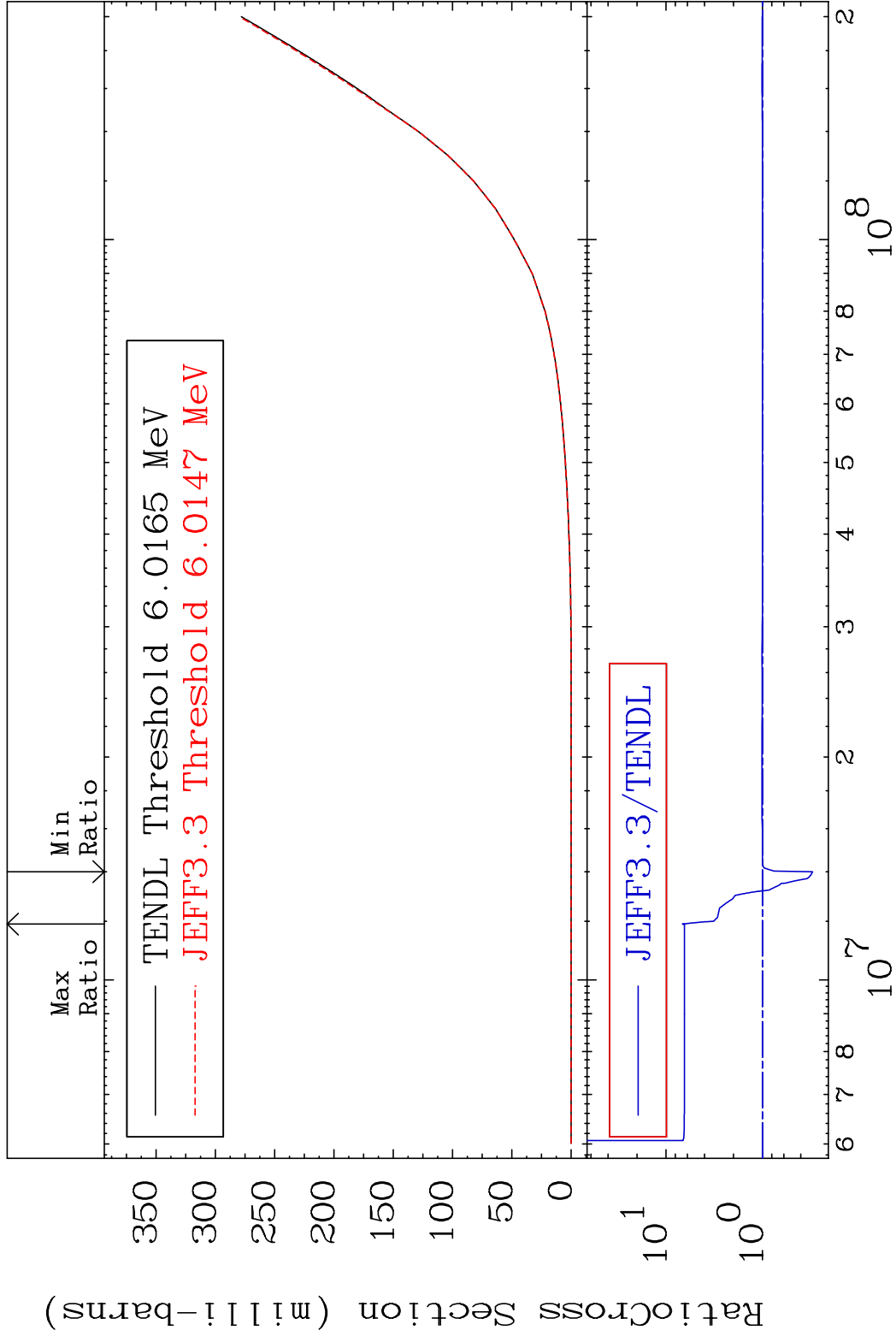
80-Hg-199

MAT 8034

He-3 Production

80-Hg-199

Cross Section -69.80 To 577.2 %



50

Incident Energy (eV)

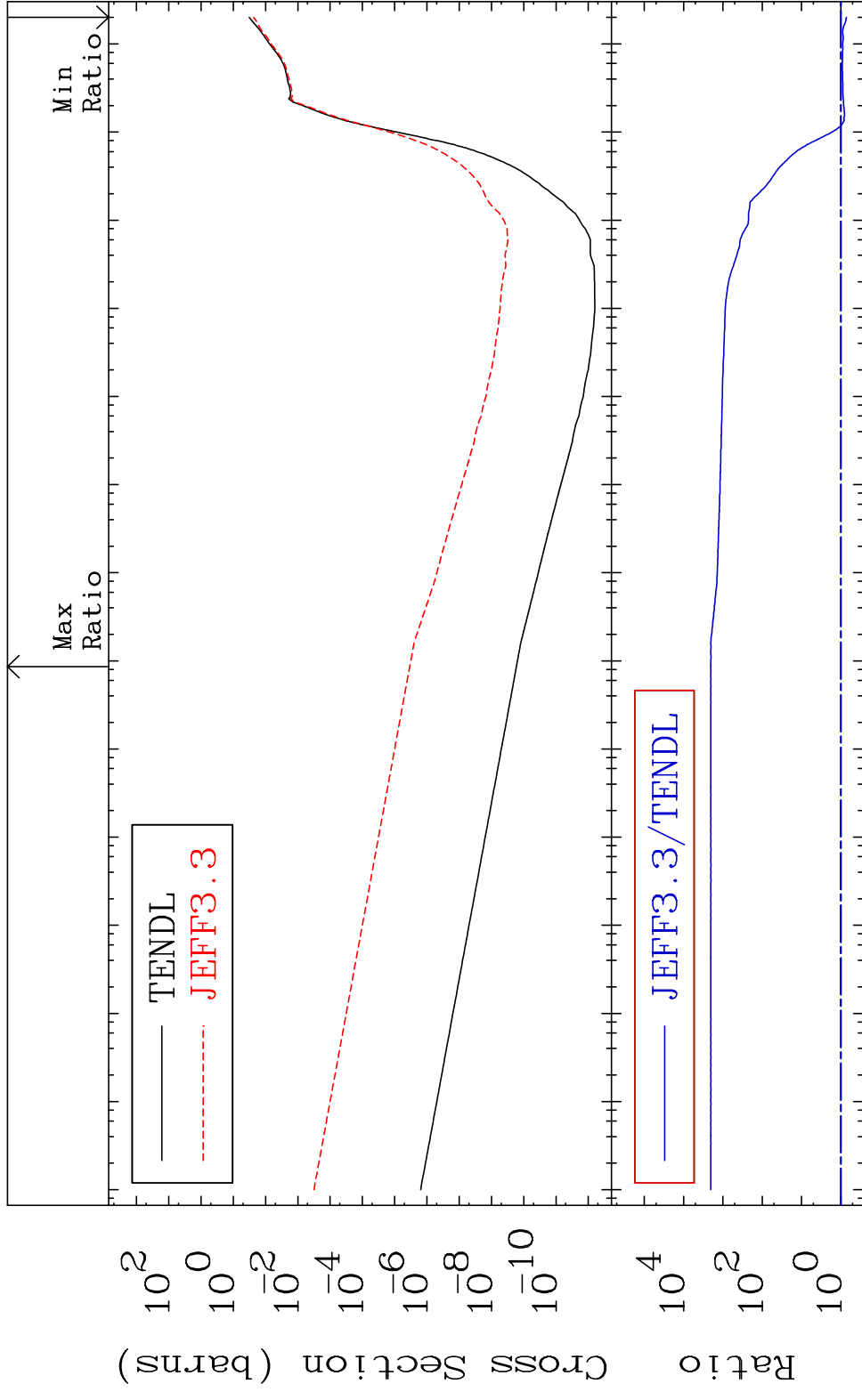
80-Hg-199

MAT 8034

He-4 Production

80-Hg-199

Cross Section -27.55 To 9999. %



Cross Section (barns)  
Ratio

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

51

Incident Energy (eV)

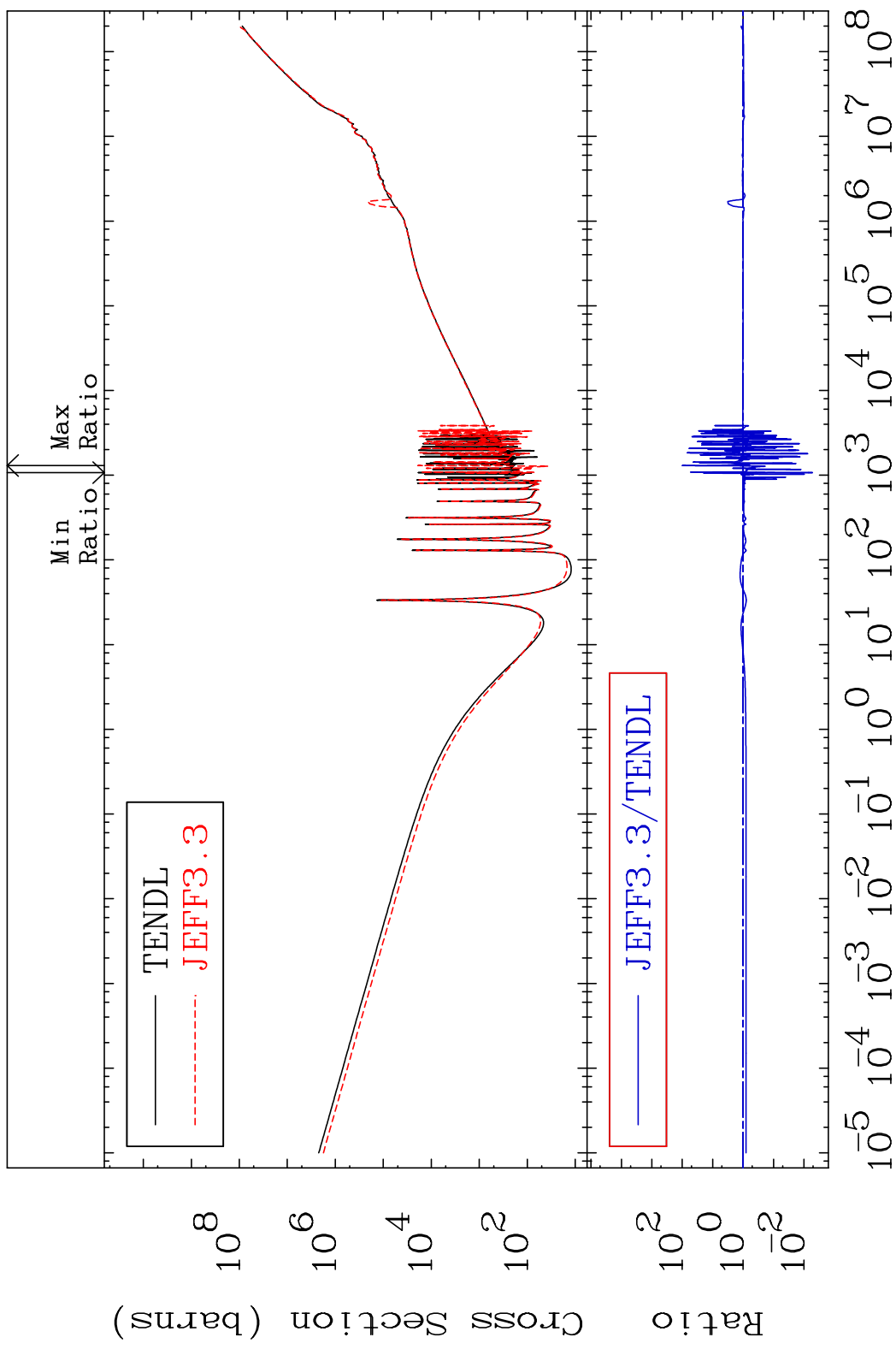
80-Hg-199

MAT 8034

Kerma total (eV-barns)

80-Hg-199

Cross Section -99.48 To 9833. %

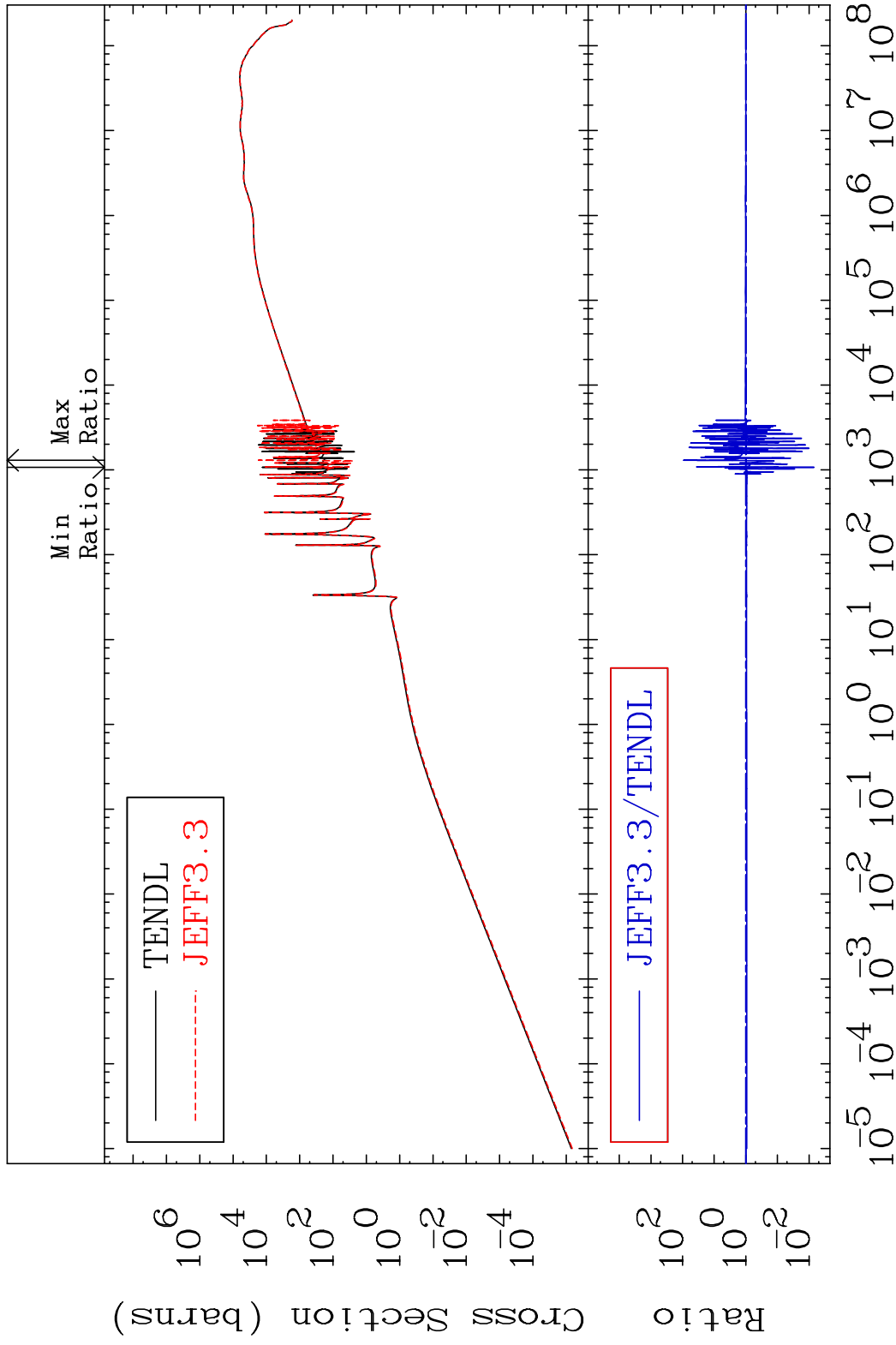


MAT 8034

Kerma elastic

80-Hg-199

Cross Section -99.31 To 9122. %

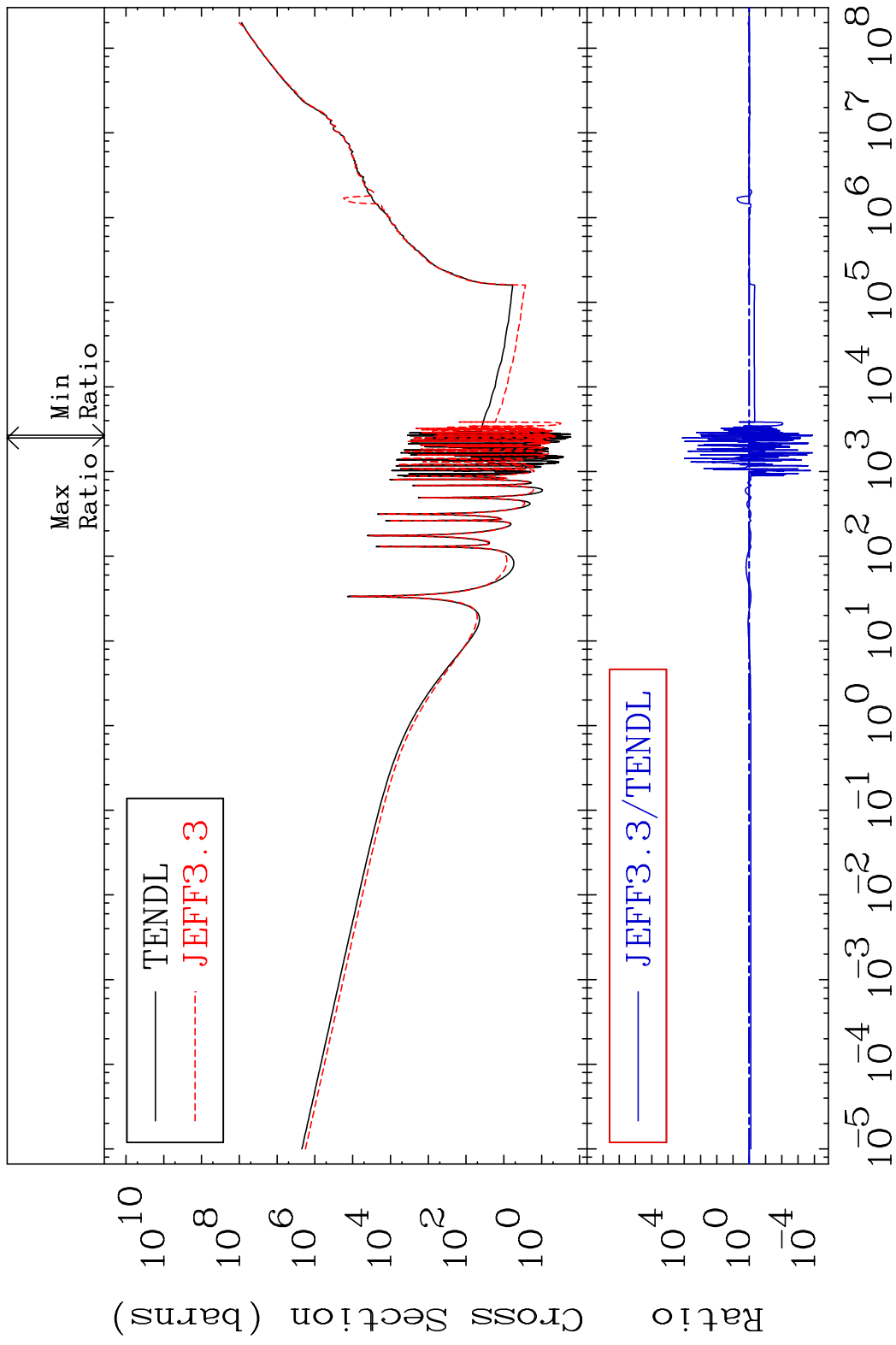


53

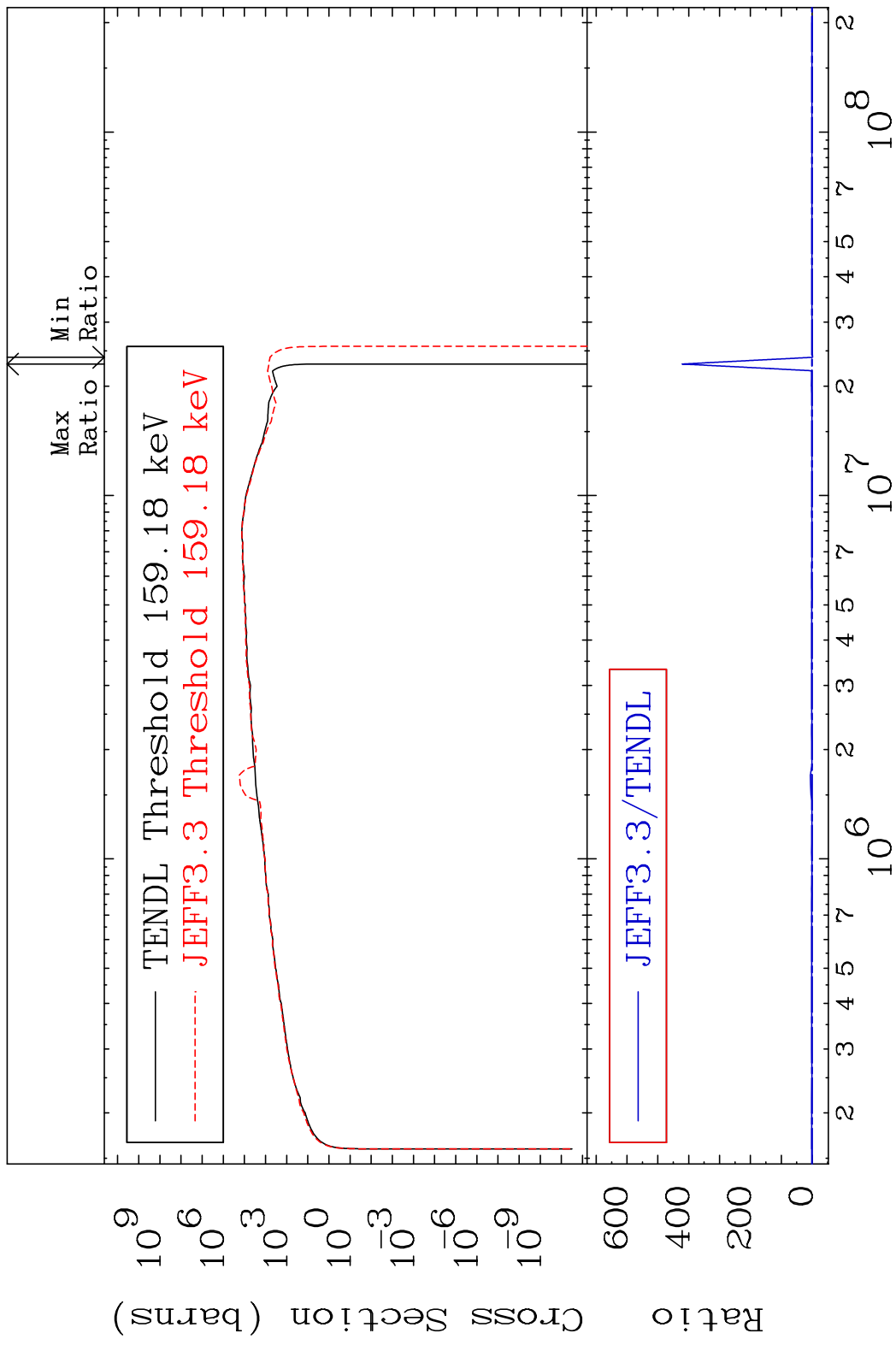
Incident Energy (eV)

80-Hg-199

MAT 8034 Kerma non-elastic (all but mt2) 80-Hg-199  
 Cross Section -99.99 To 9999. %

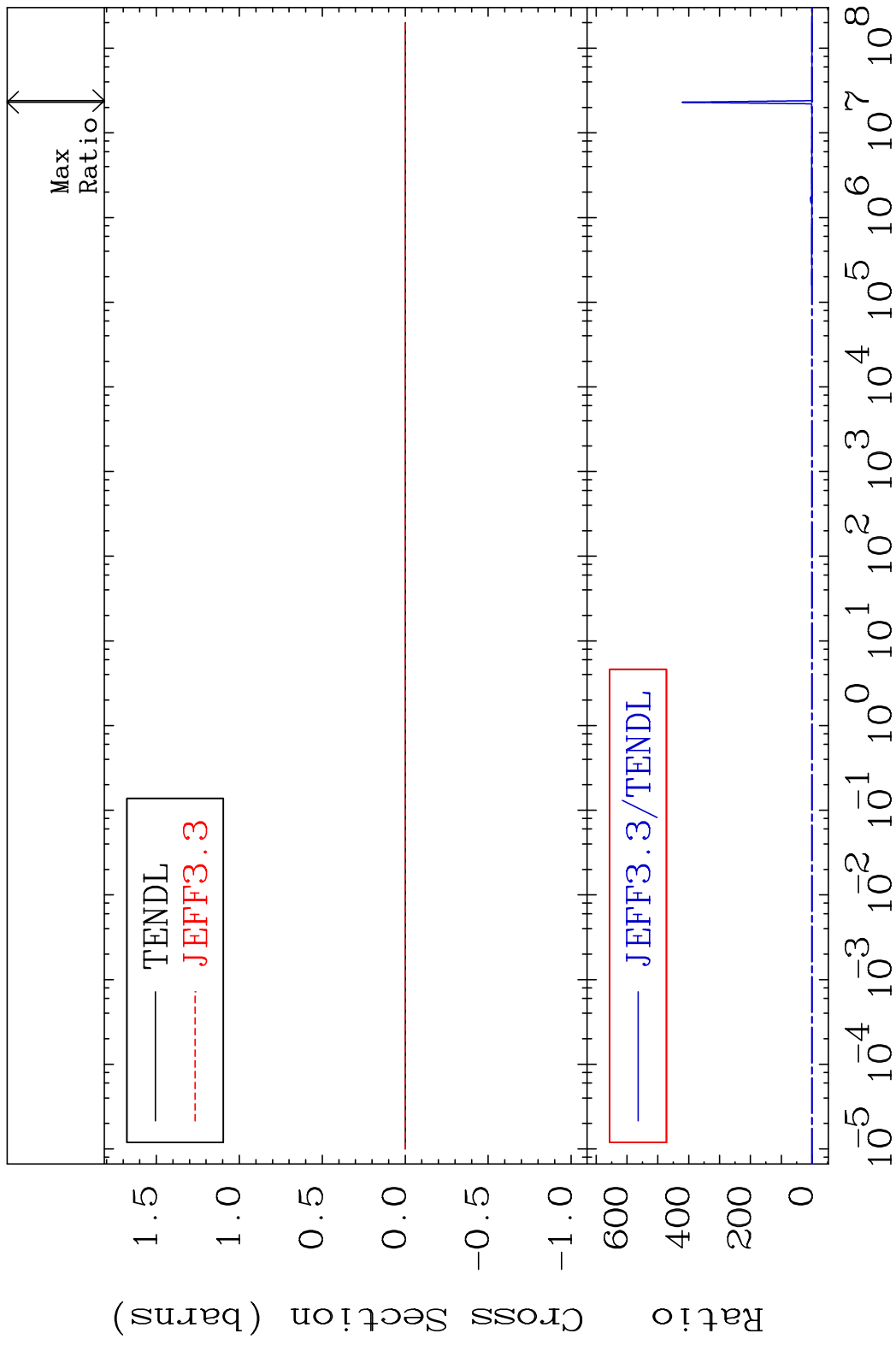


MAT 8034 Kerma inelastic (mt51-91) 80-Hg-199  
 Cross Section -241.2 To 9999. %



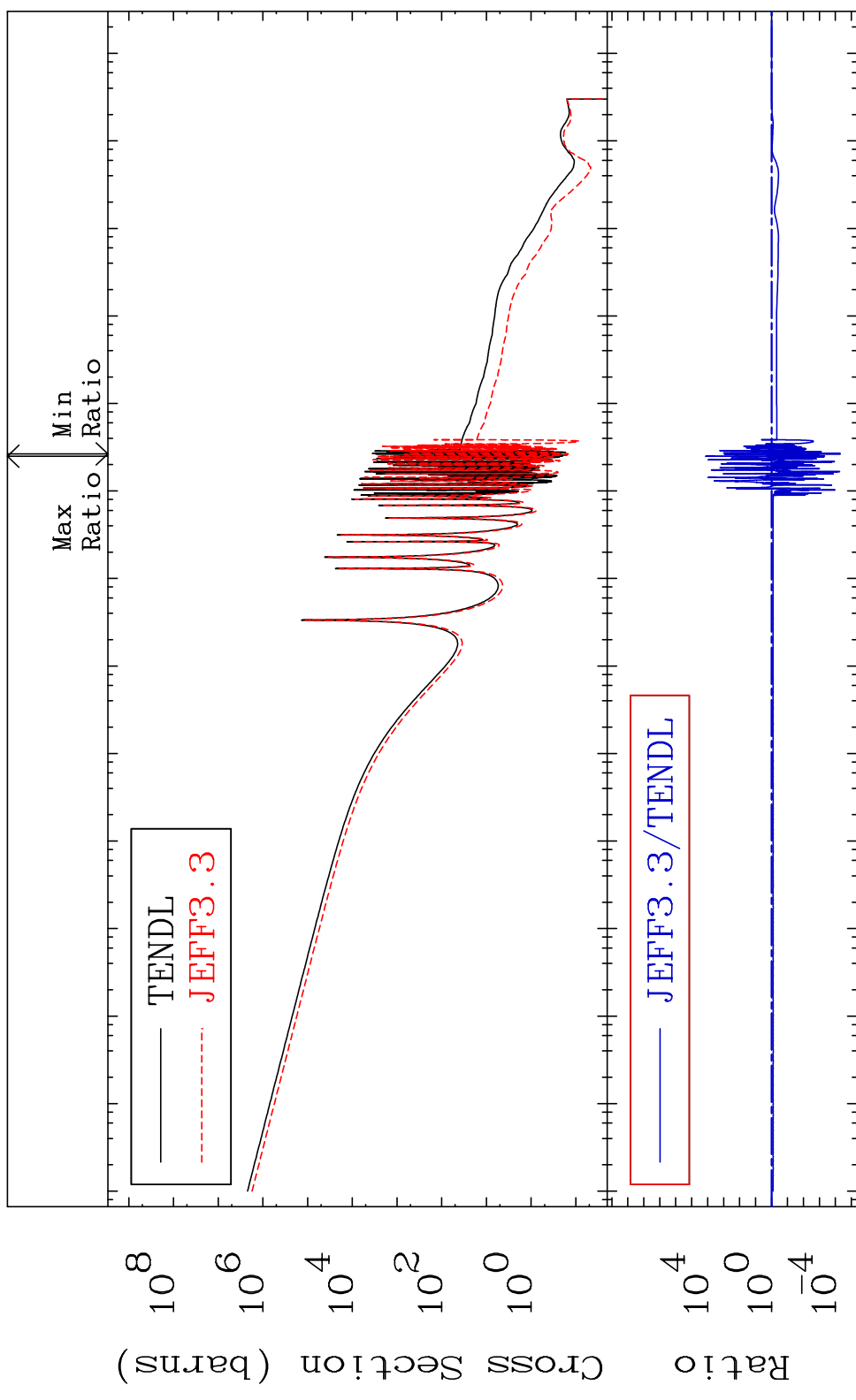


MAT 8034 Kerma fission (mt18 or mt19-20-21-38)80-Hg-199  
 Cross Section -241.2 To 9999. %



MAT 8034

Kerma capture (mt102) 80-Hg-199  
Cross Section -100.0 To 9999. %

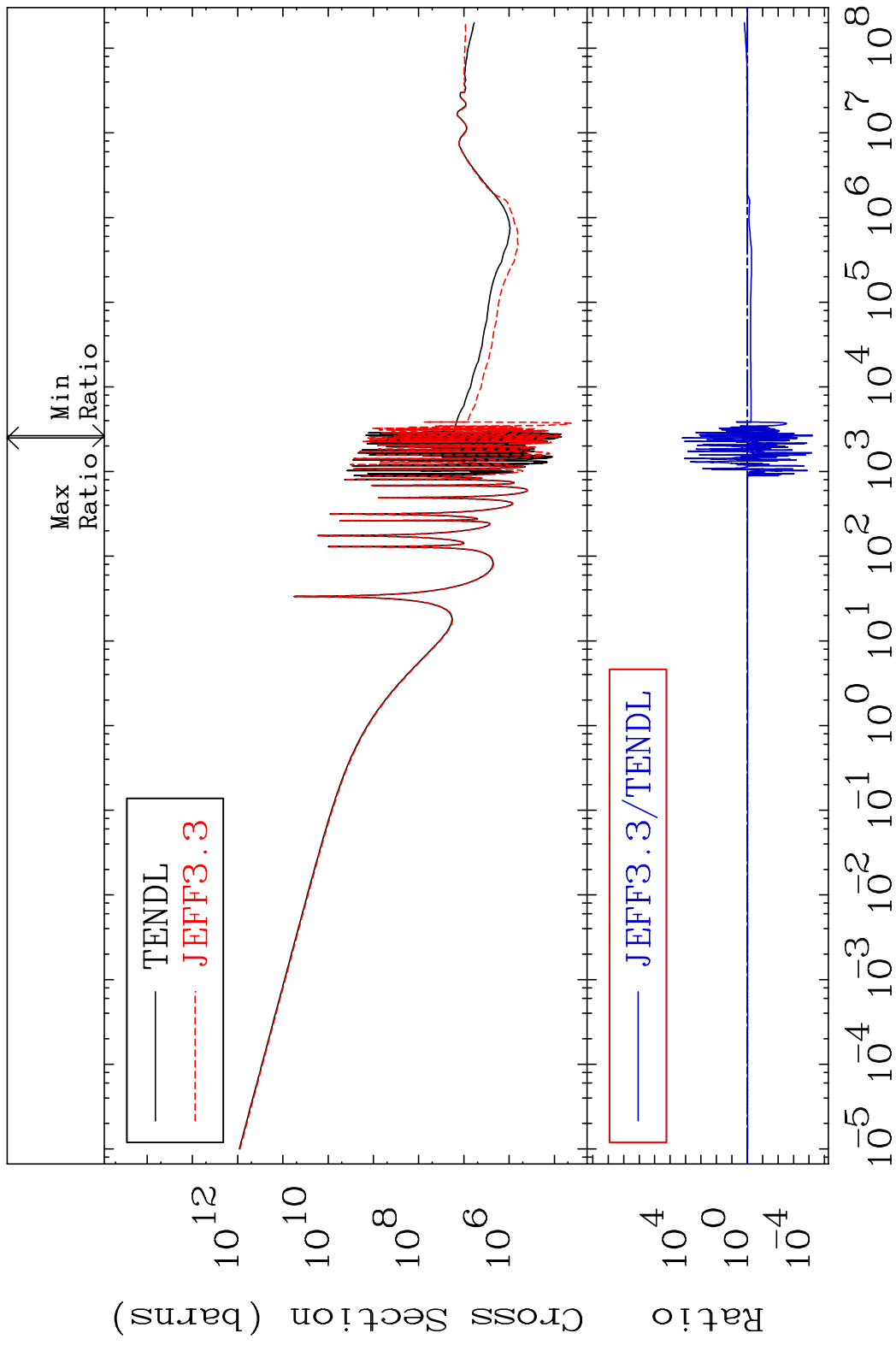


57

Incident Energy (eV)

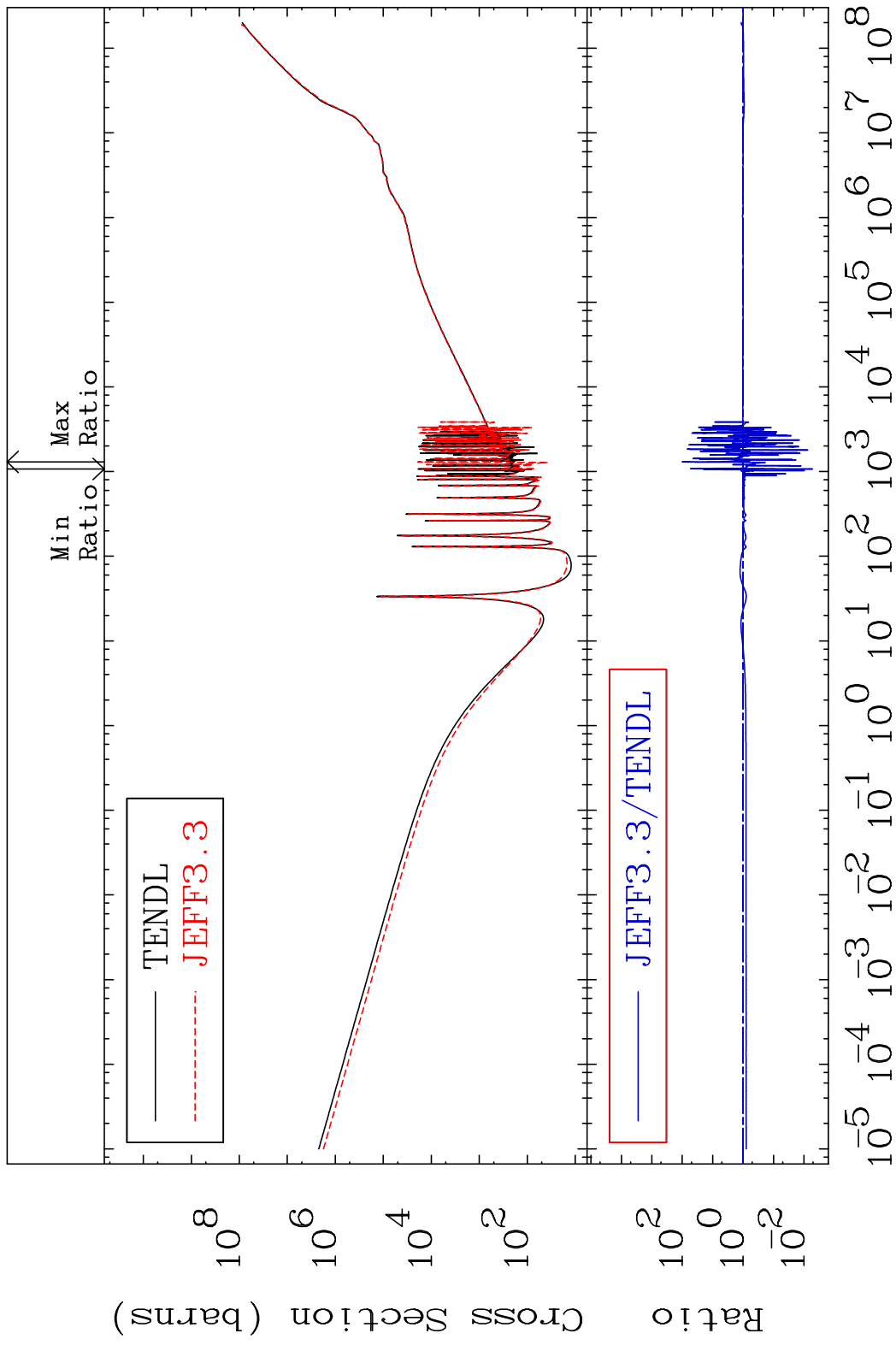
80-Hg-199

MAT 8034 Total photon (eV-barns) 80-Hg-199  
 Cross Section -99.99 To 9999. %

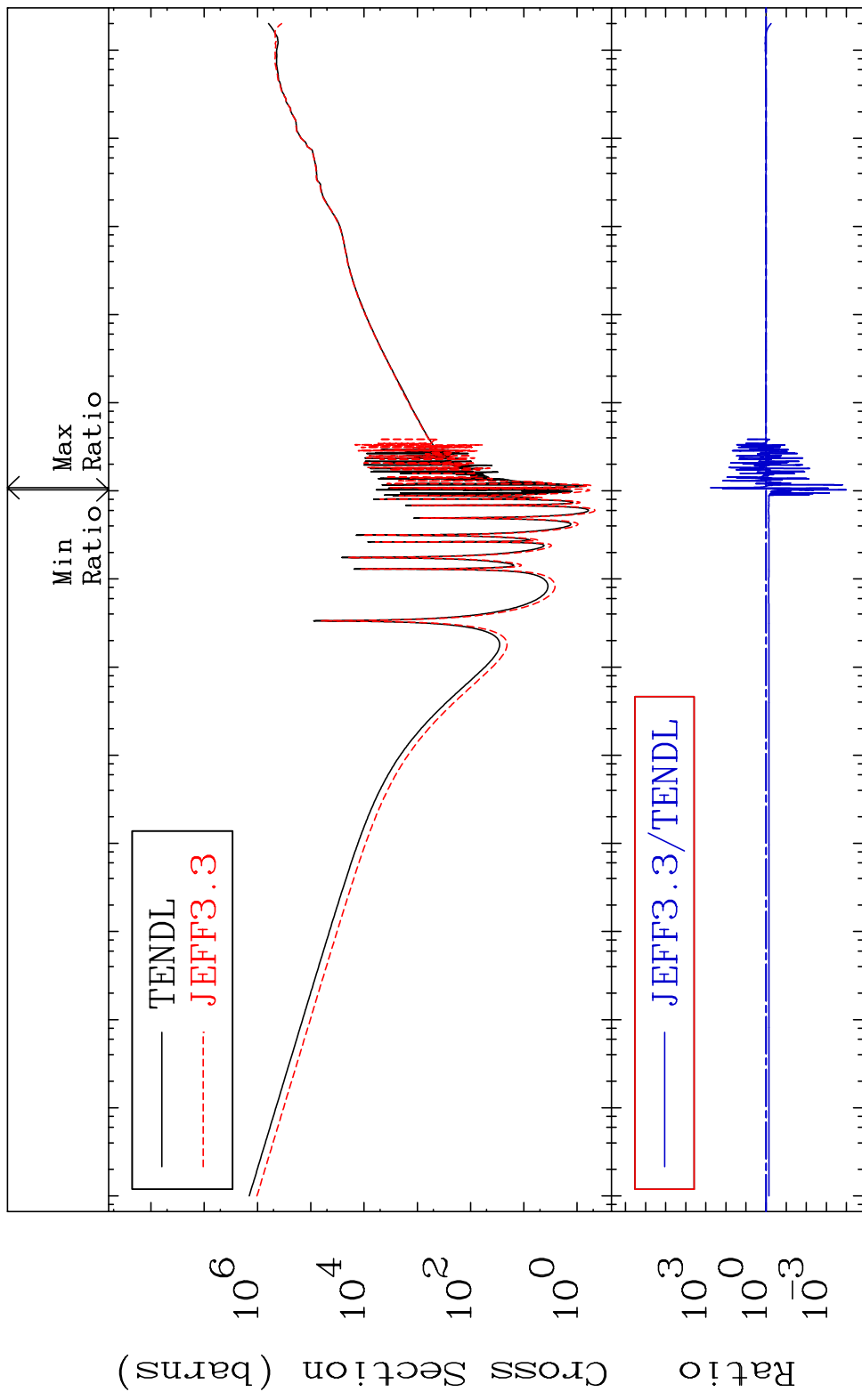


58 Incident Energy (eV) 80-Hg-199

MAT 8034 Total kinematic kerma (high limit) 80-Hg-199  
 Cross Section -99.48 To 9833. %



MAT 8034      Dpa total (eV-barns)      80-Hg-199  
 Cross Section      -99.99 To 9999. %



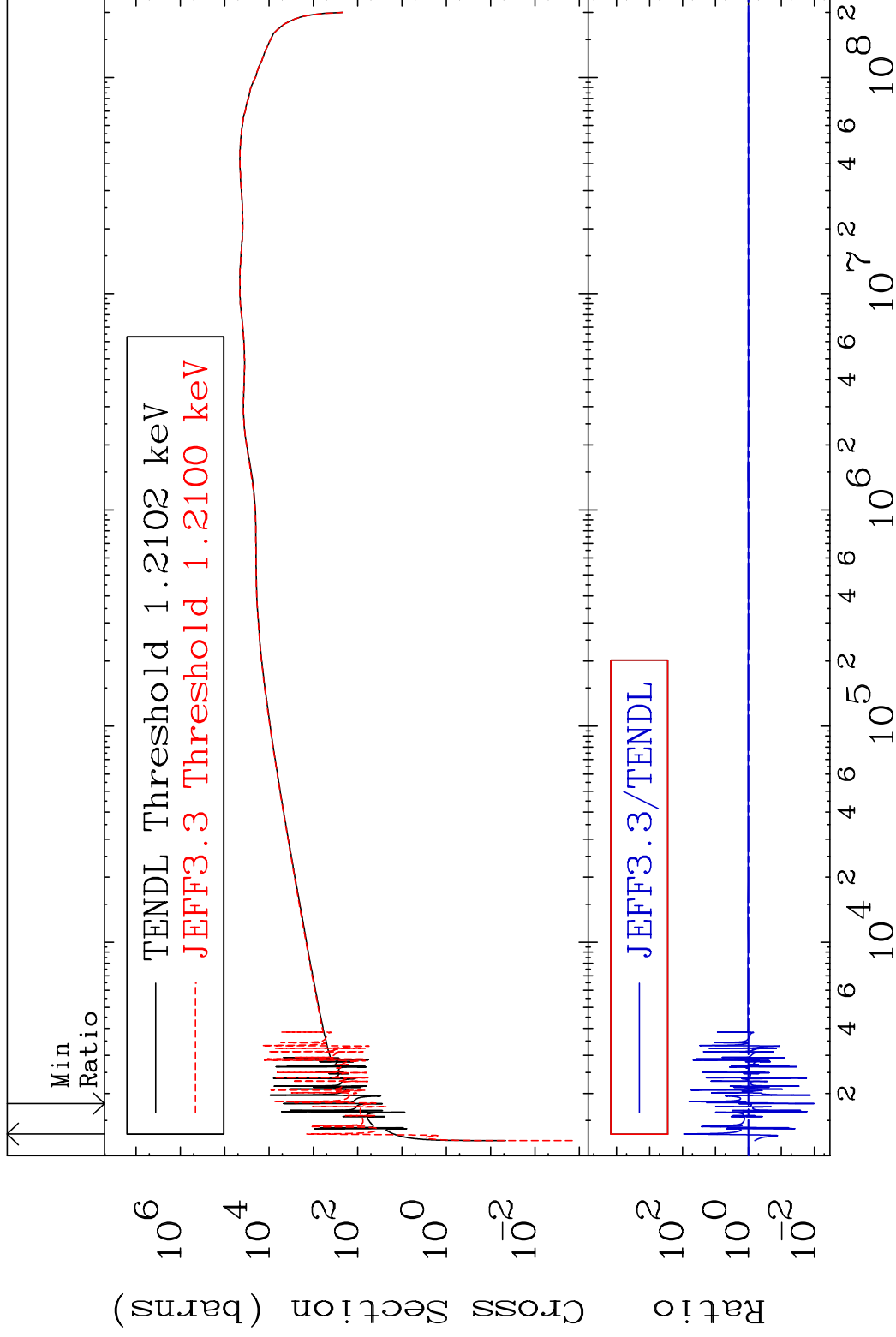
60      Incident Energy (eV)      80-Hg-199

MAT 8034

Dpa elastic (mt2)

80-Hg-199

Cross Section -98.99 To 9123. %

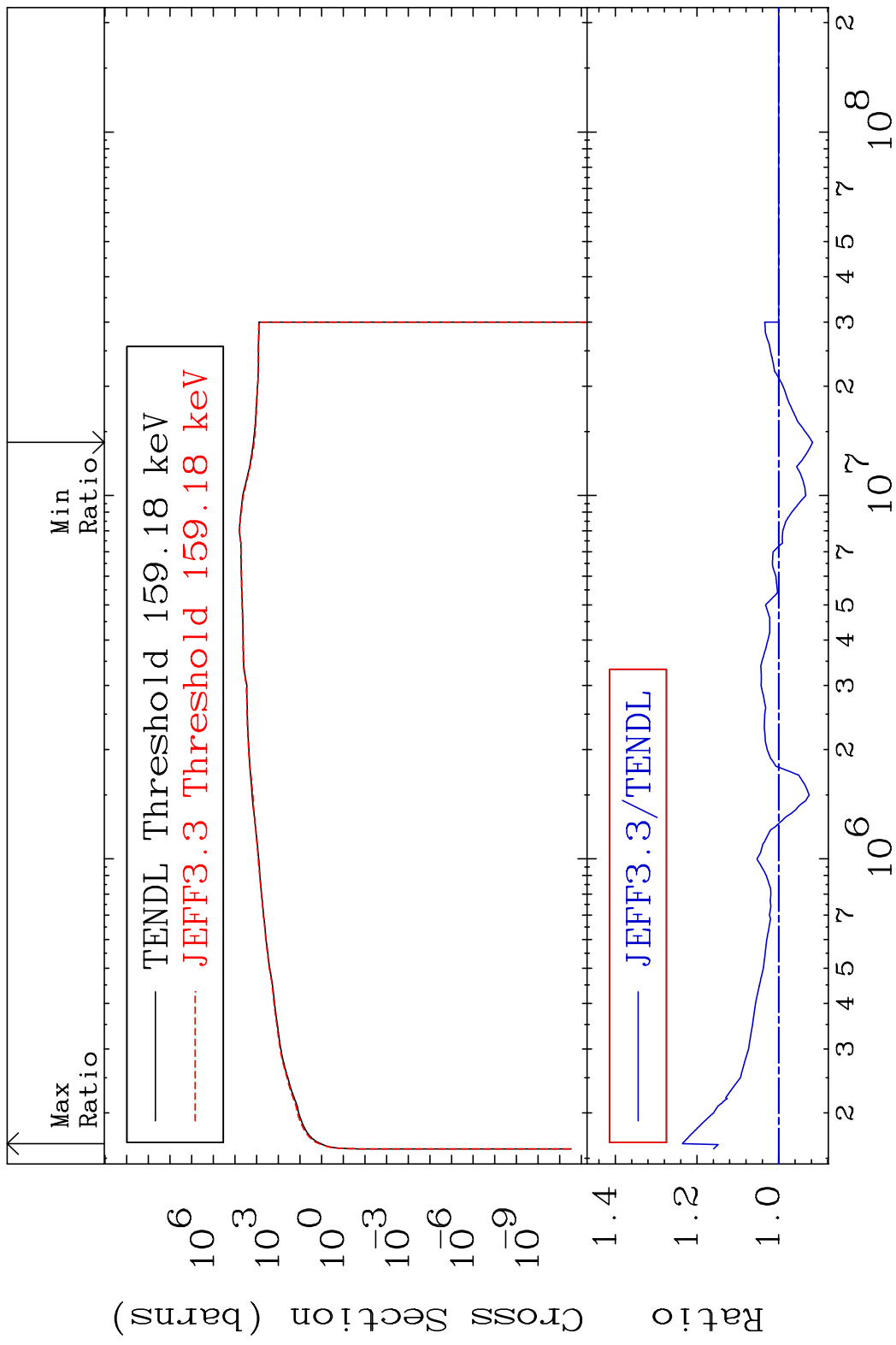


61

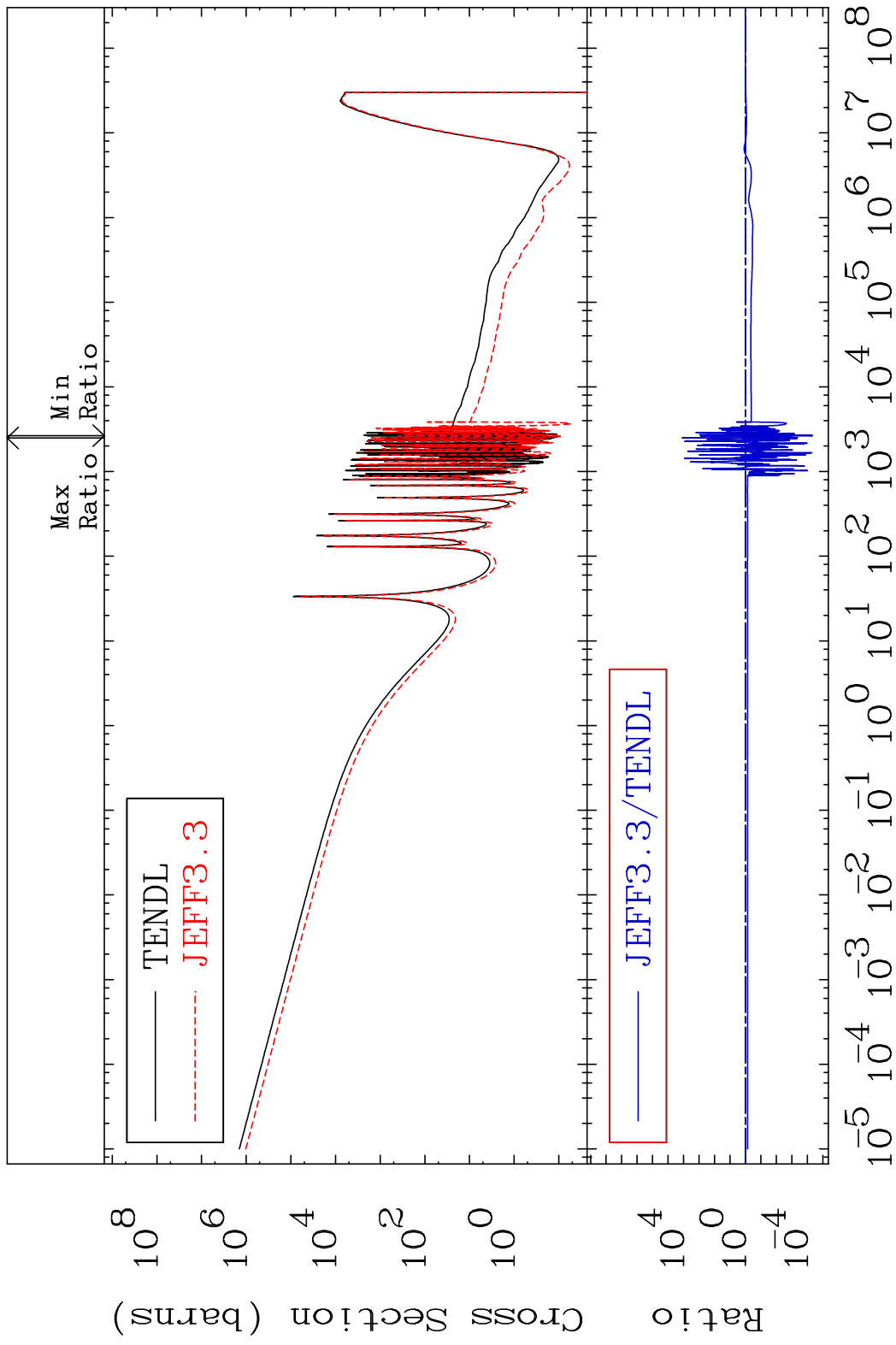
Incident Energy (eV)

80-Hg-199

MAT 8034      Dpa inelastic (mt51-91)      80-Hg-199  
 Cross Section      -8.290 To 23.60 %

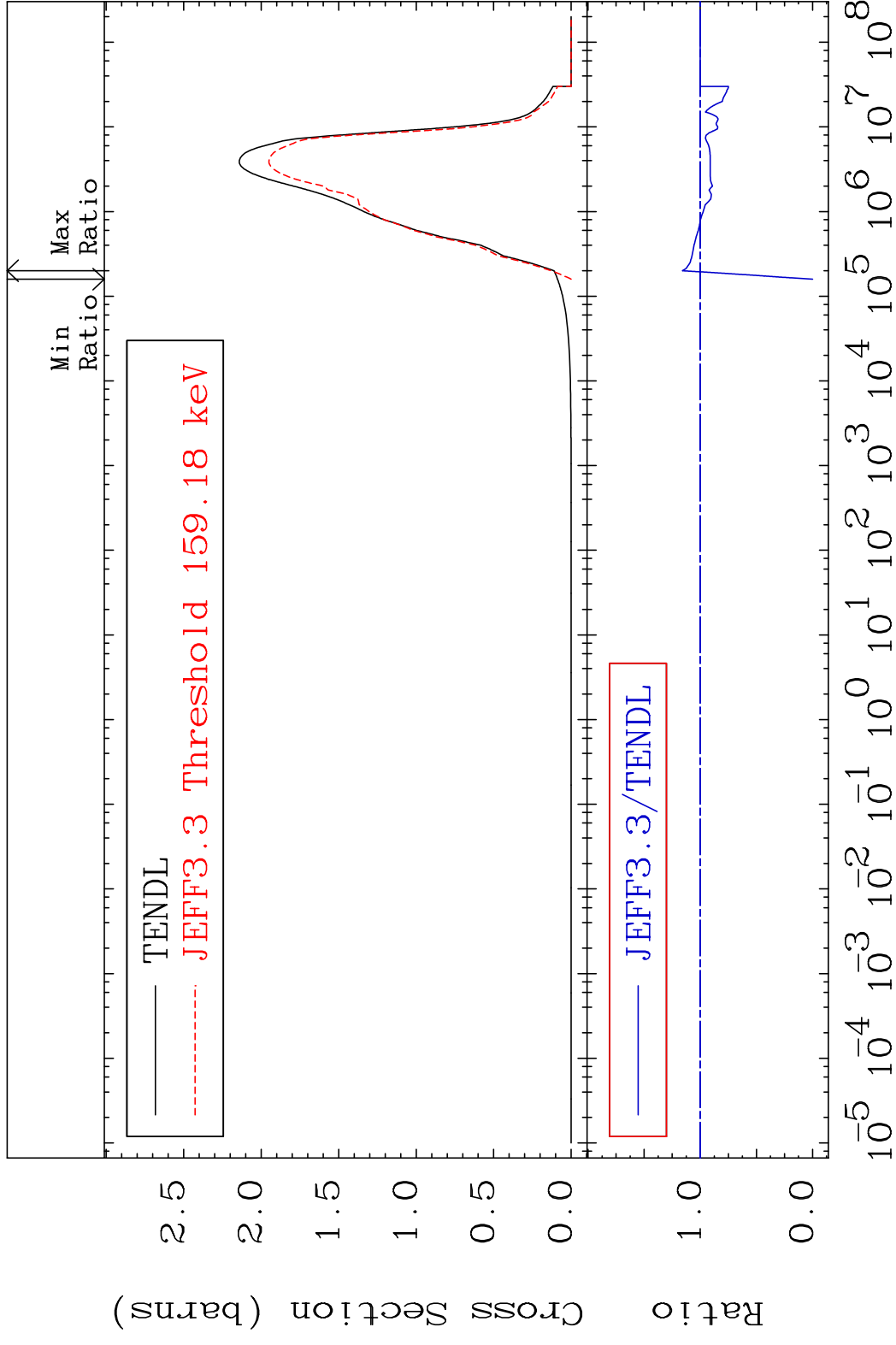


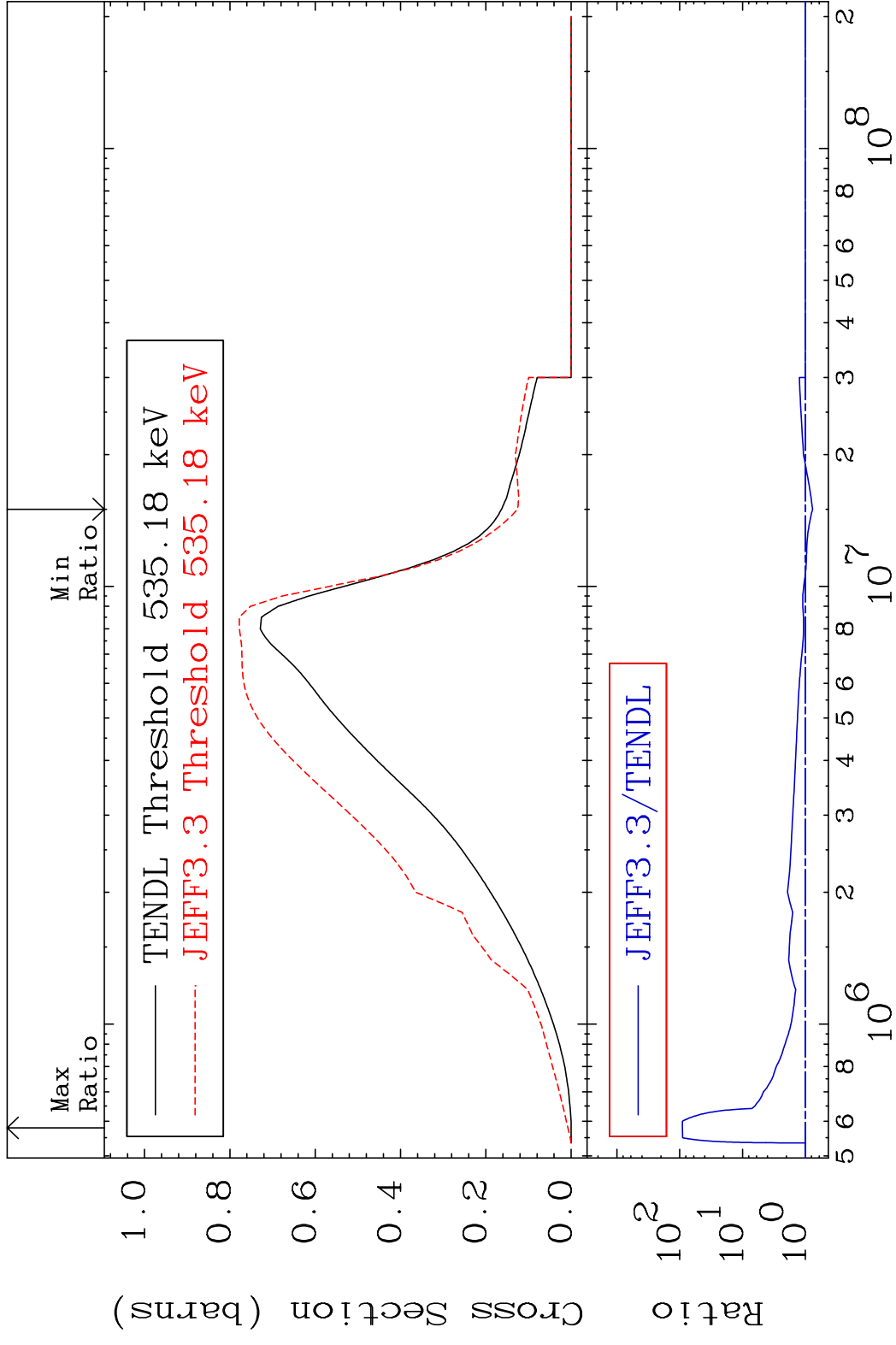
MAT 8034 Dpa disappearance (mt102 -120) 80-Hg-199  
 Cross Section -100.0 To 9999. %

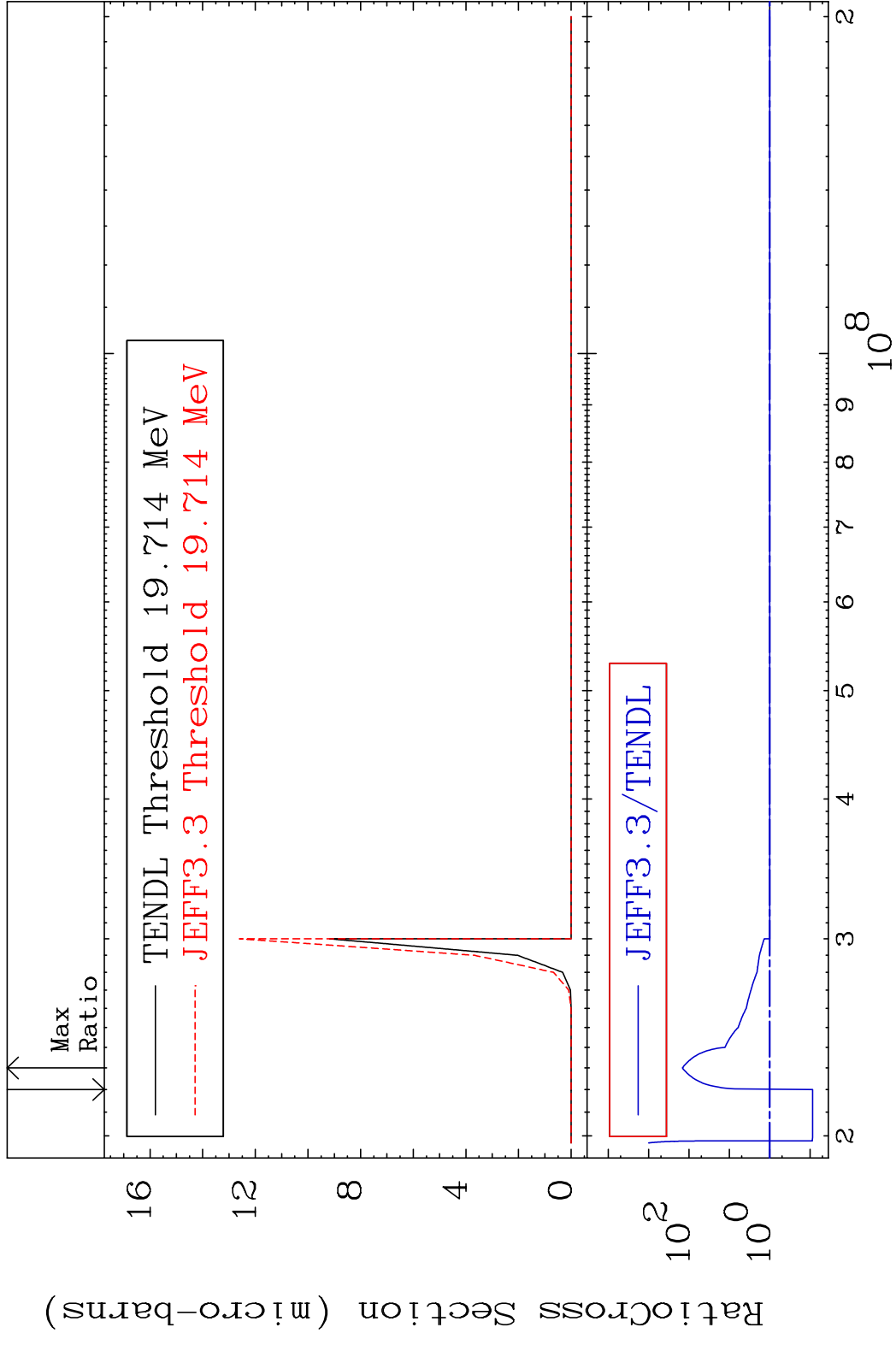


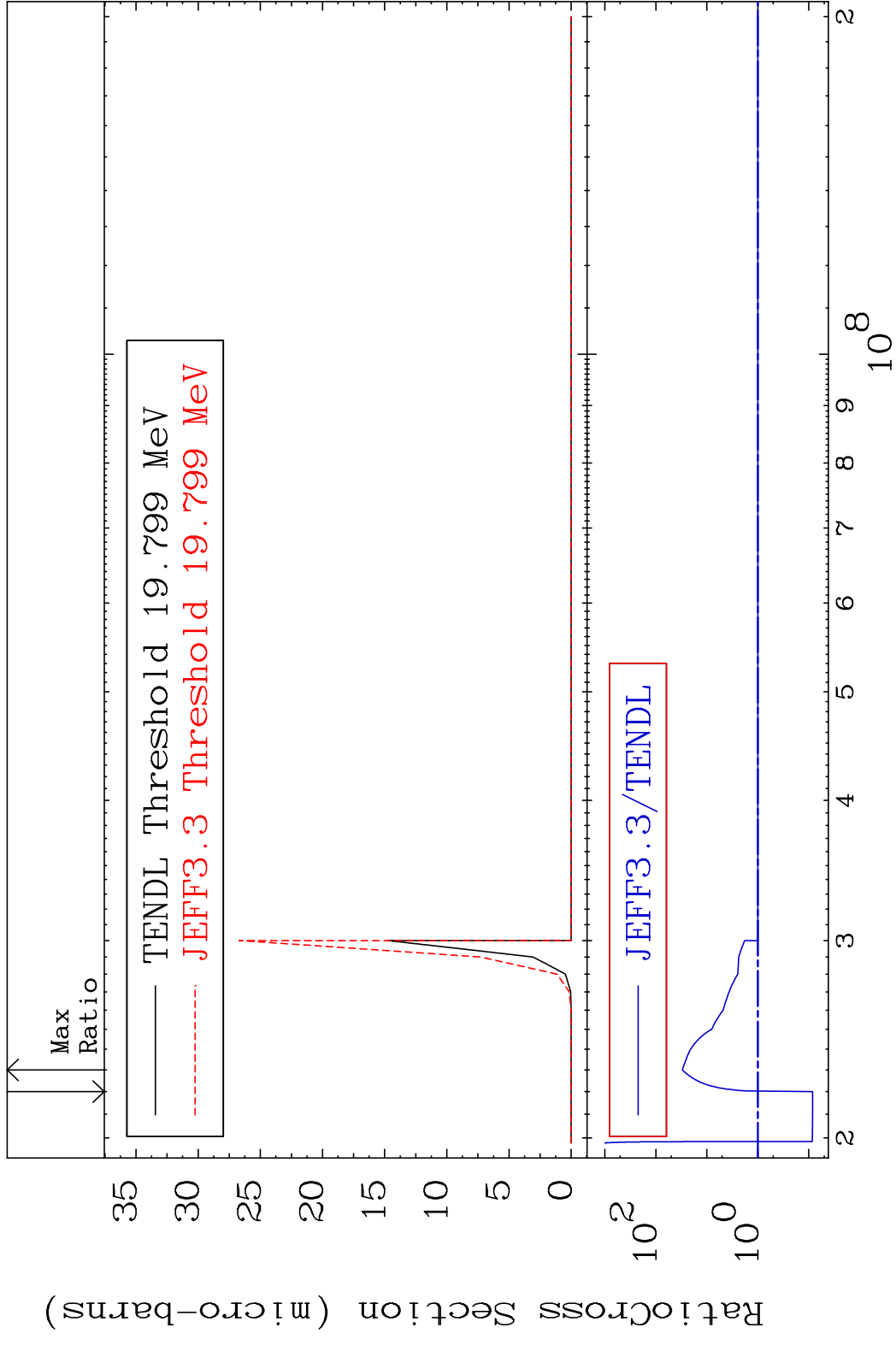
63 Incident Energy (eV) 80-Hg-199

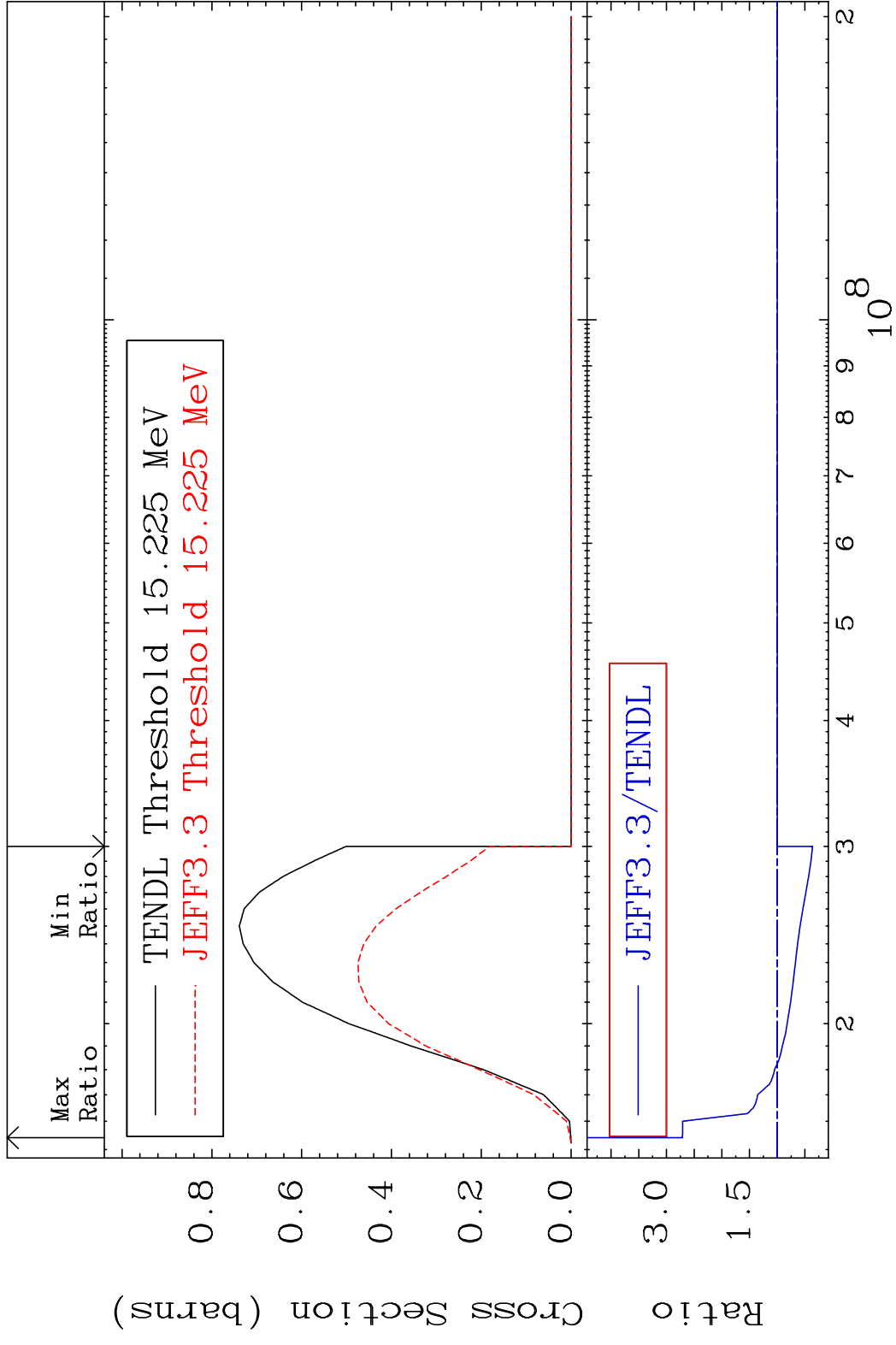


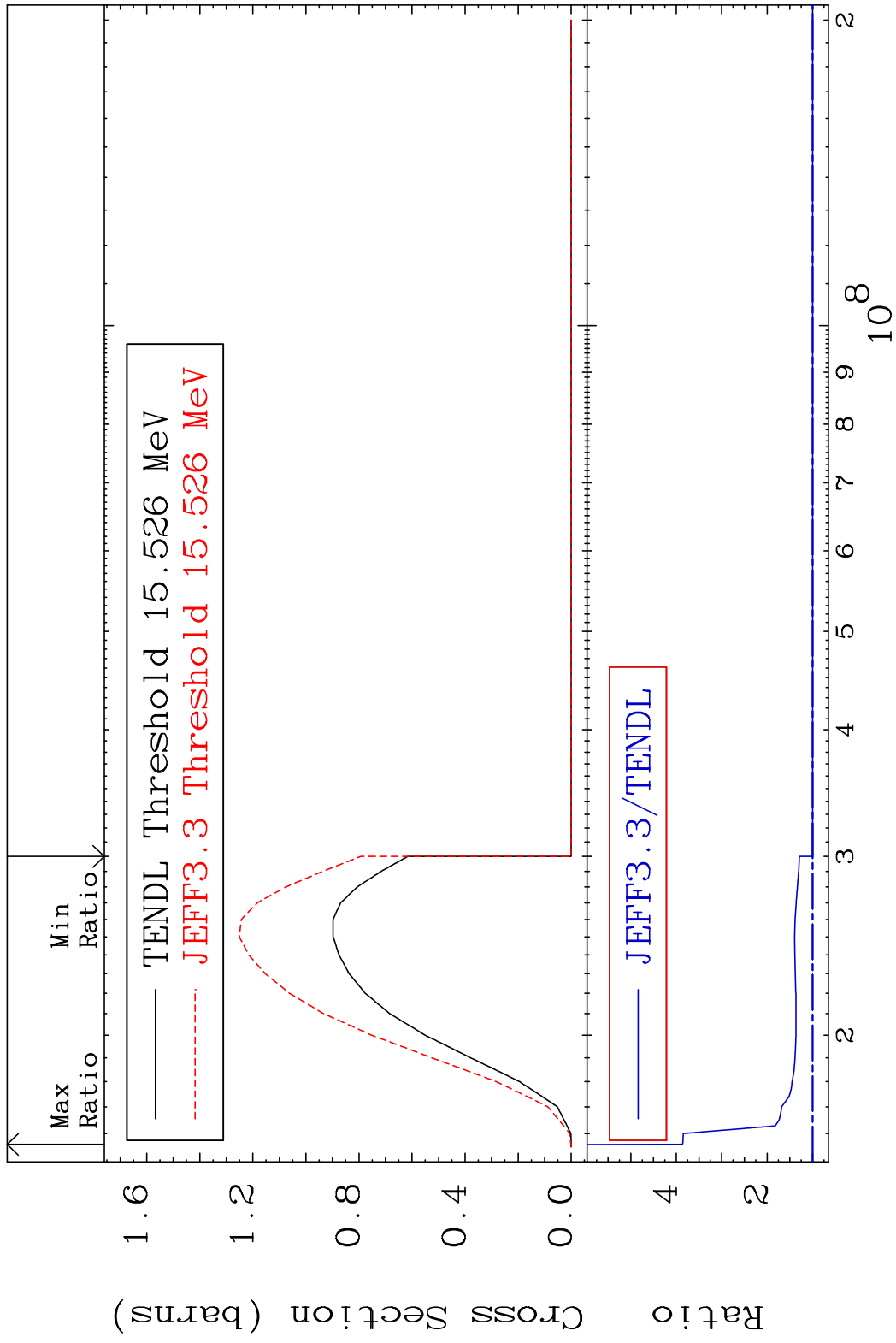


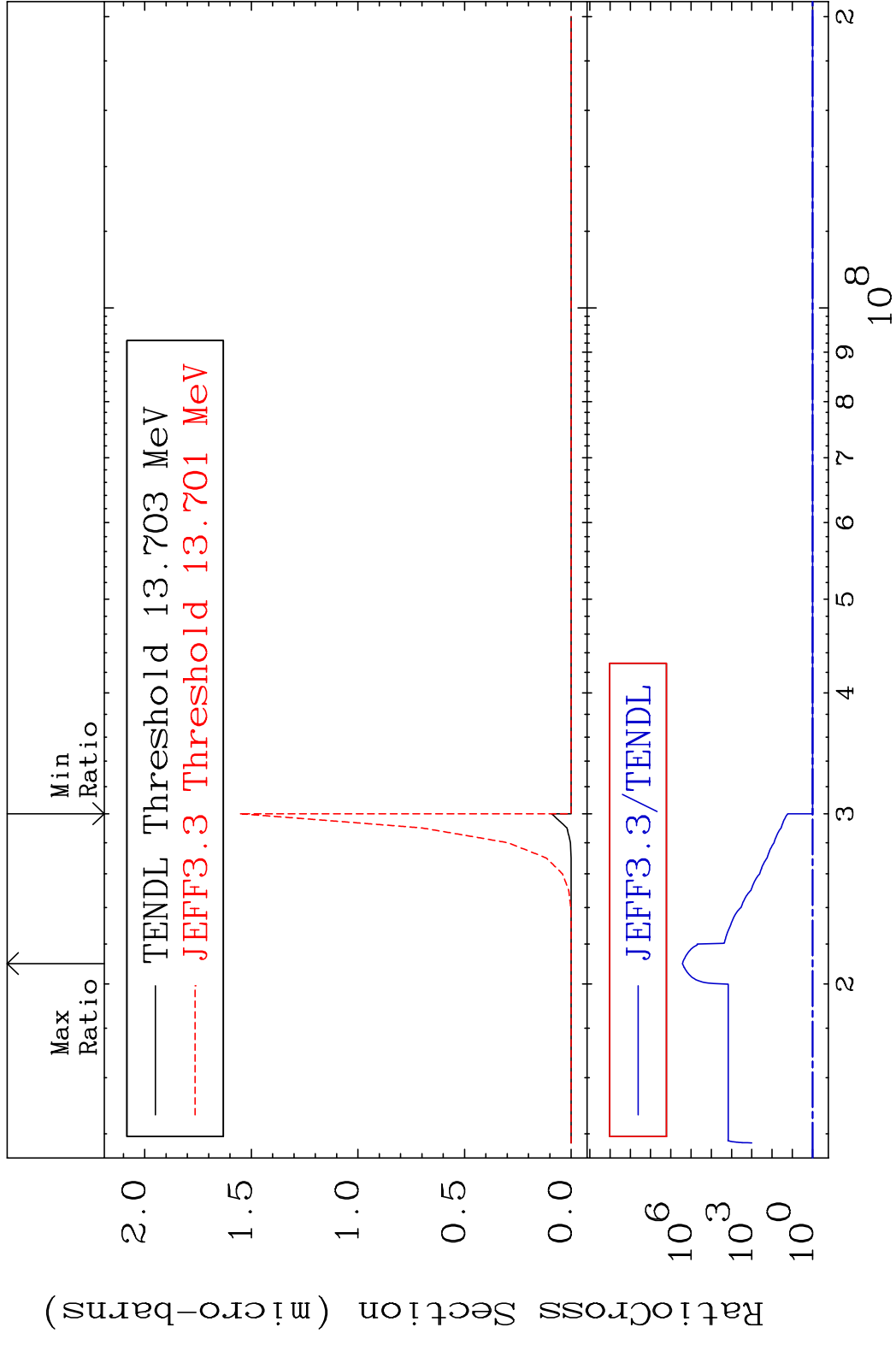


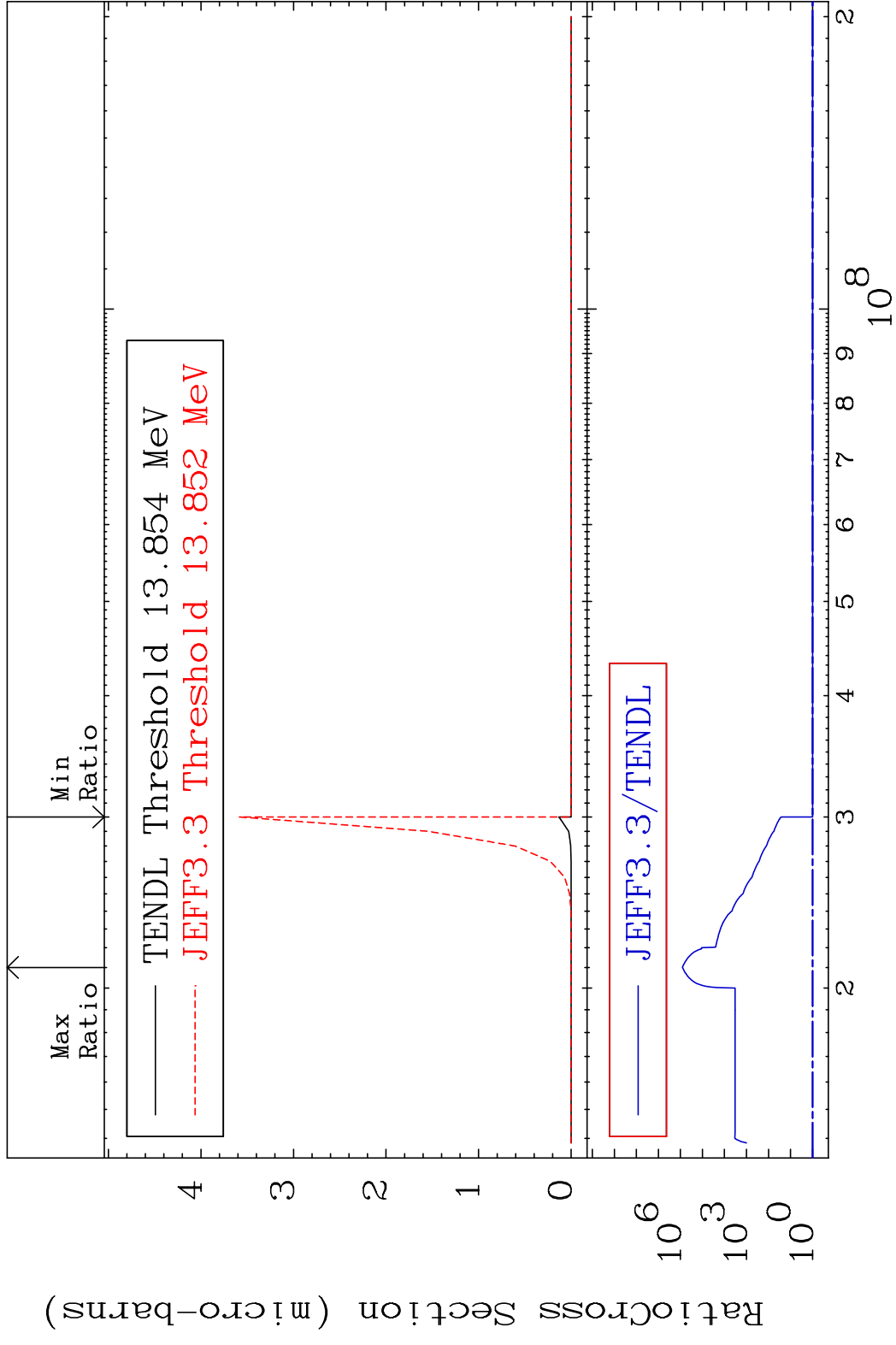






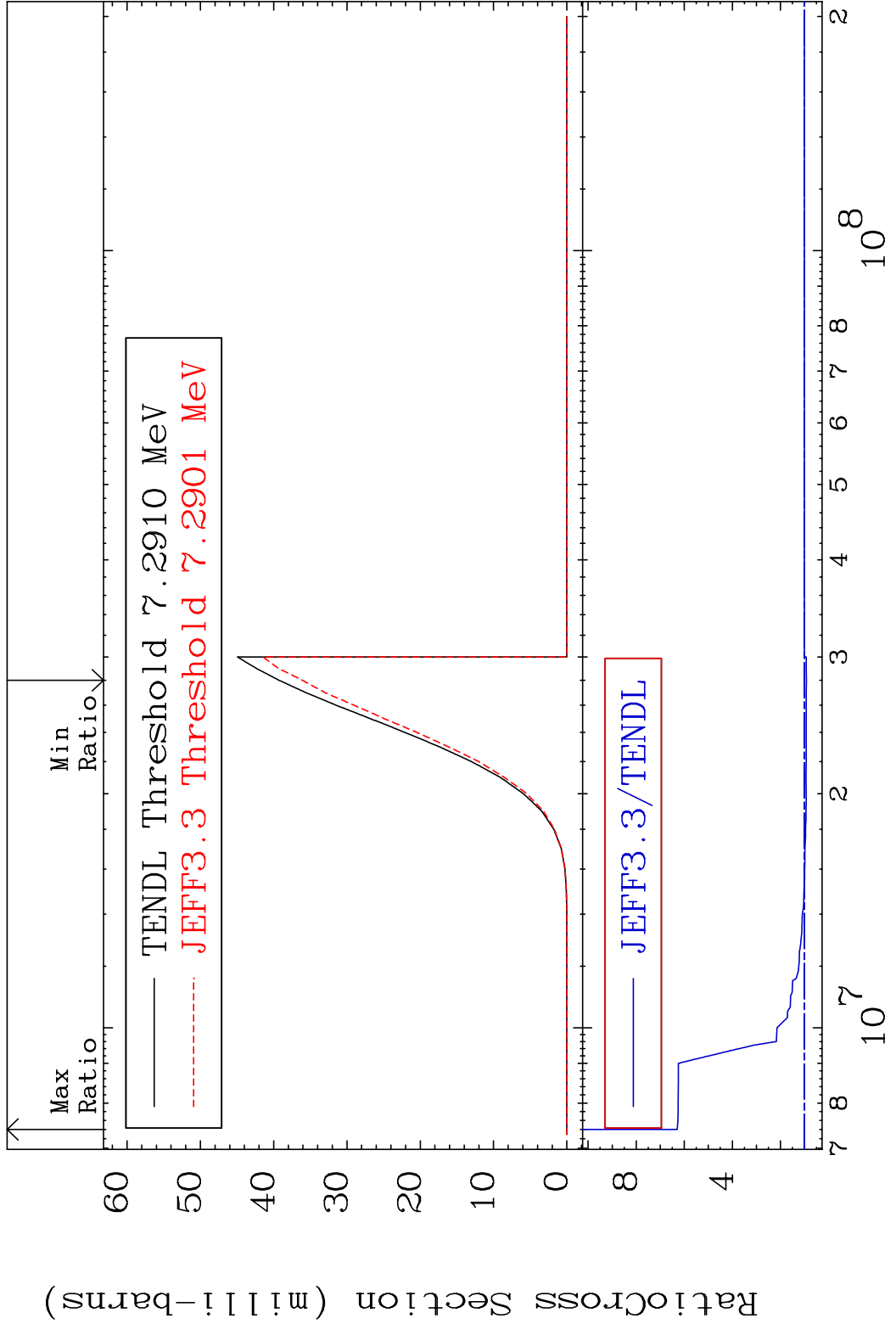


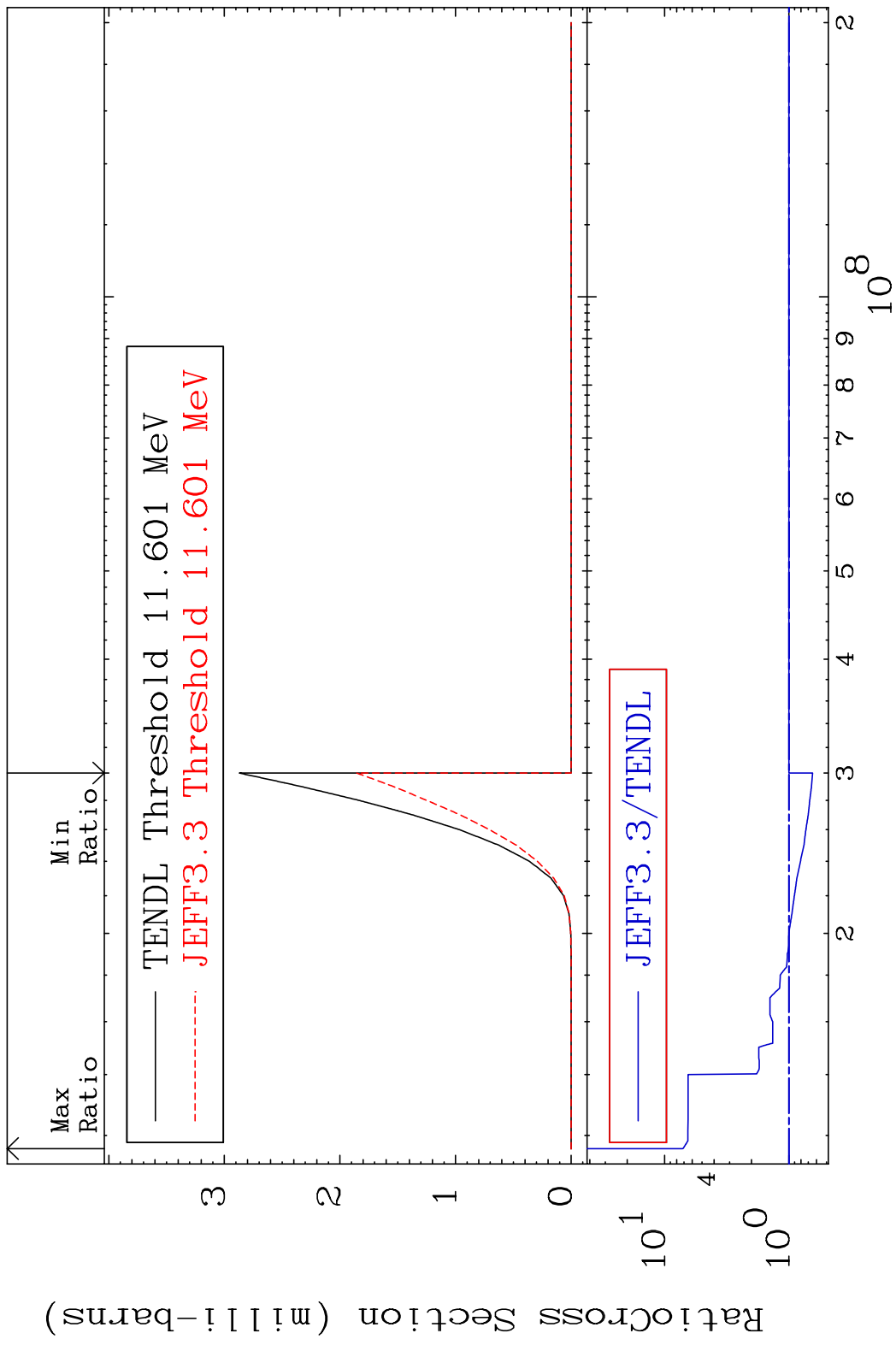


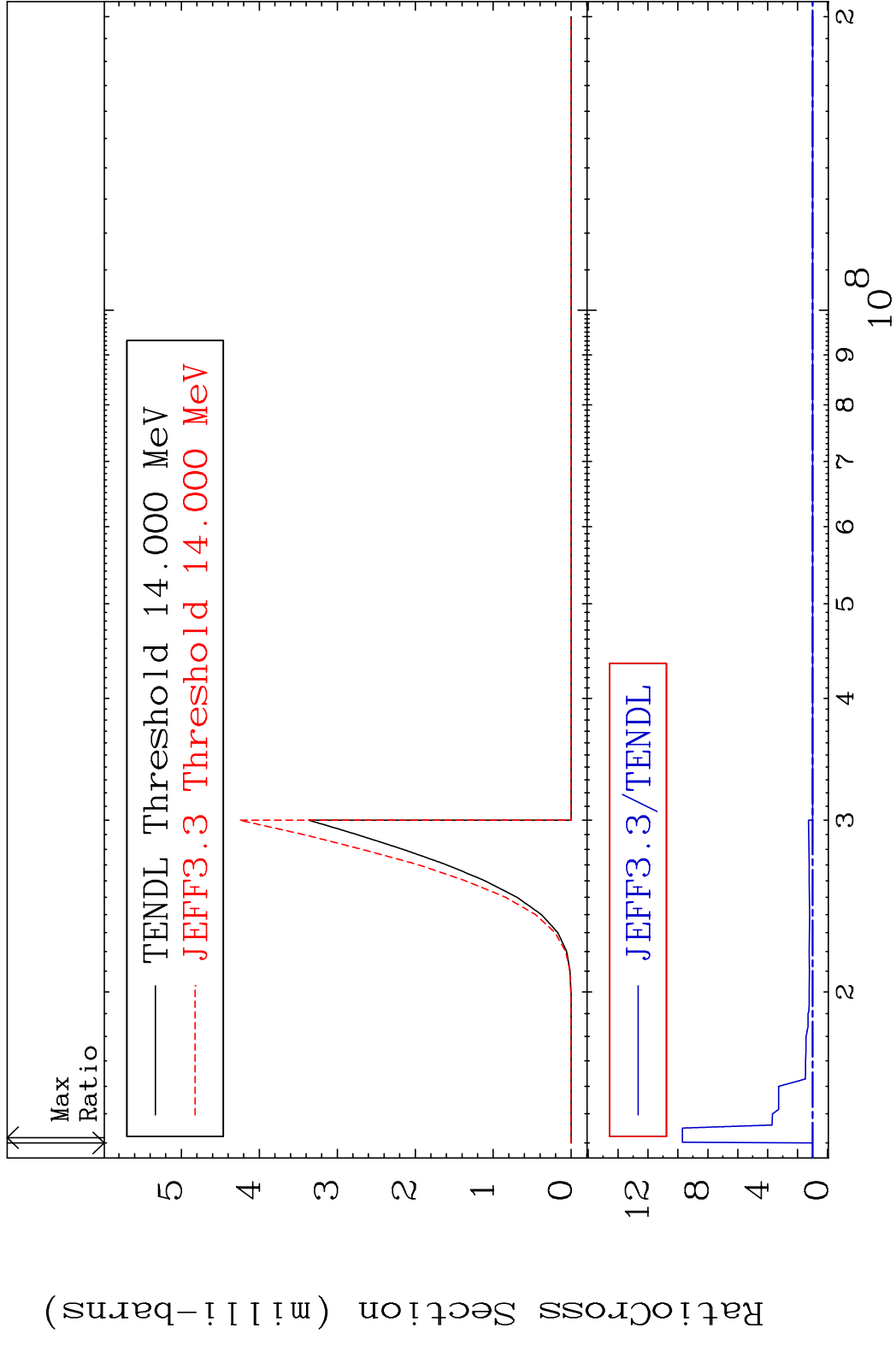


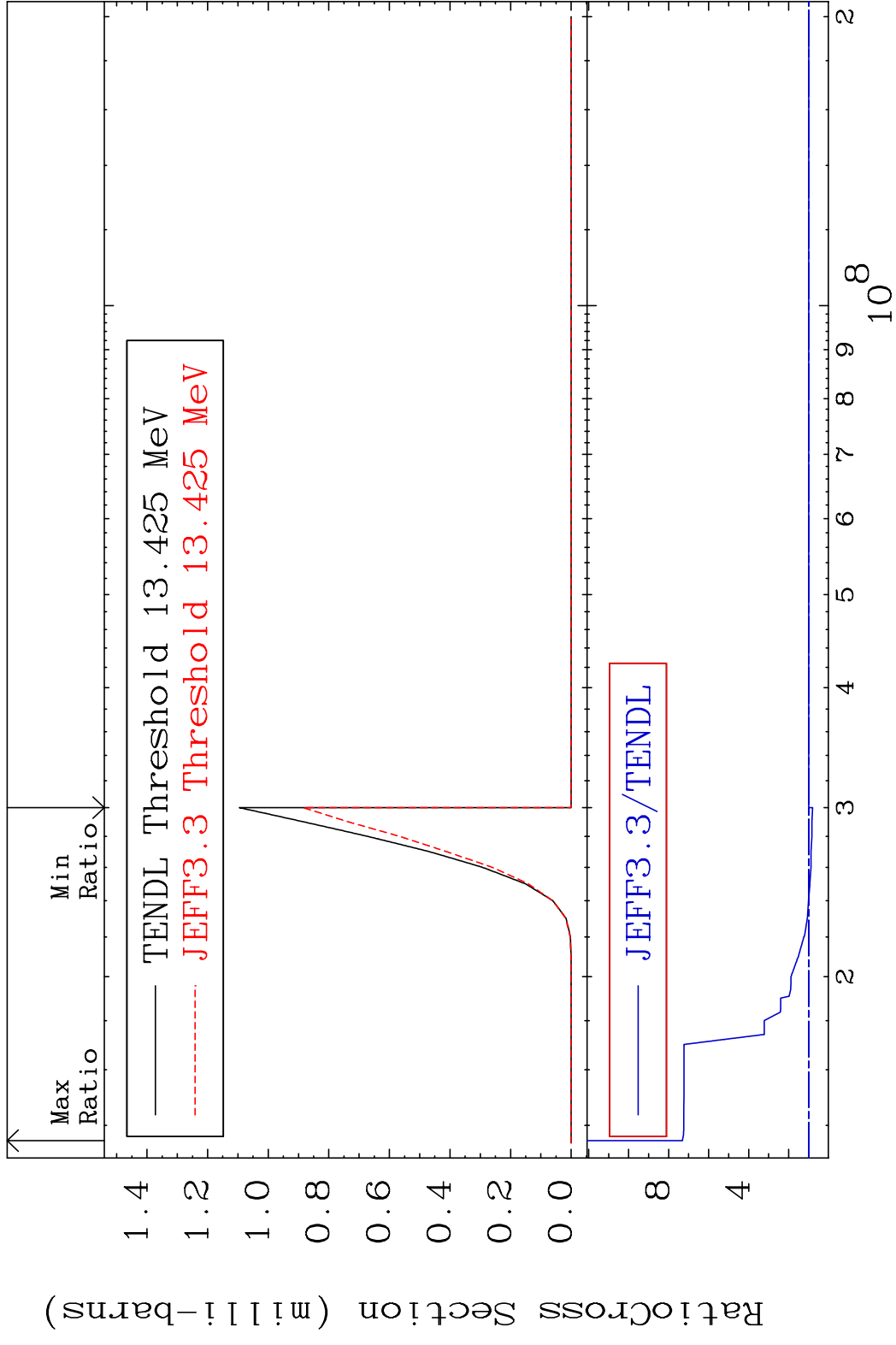


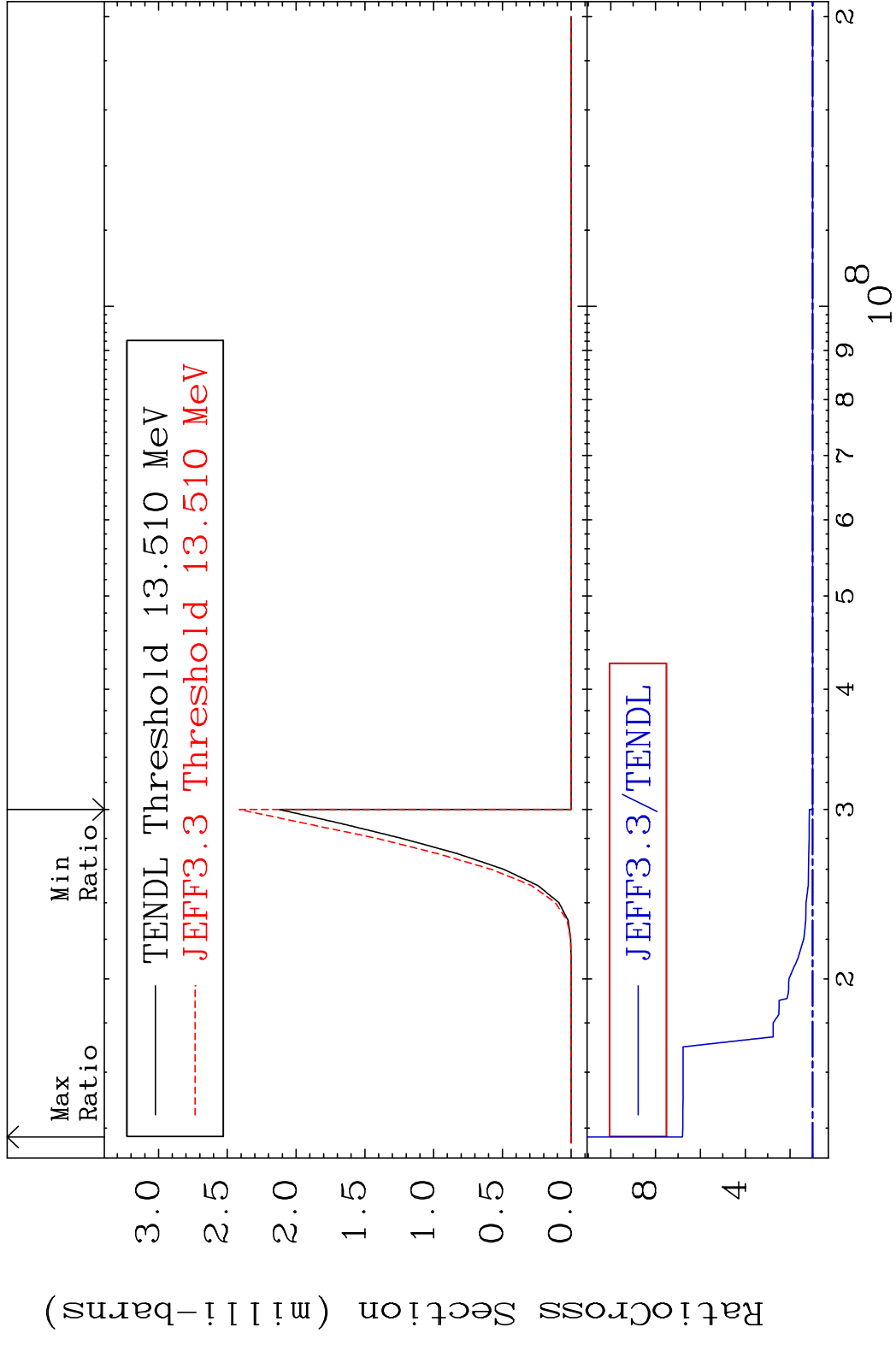
MAT 8034 (n, n') p:79-Au-198g 80-Hg-199  
 Radionuclide Production Cross Section 529.5 %

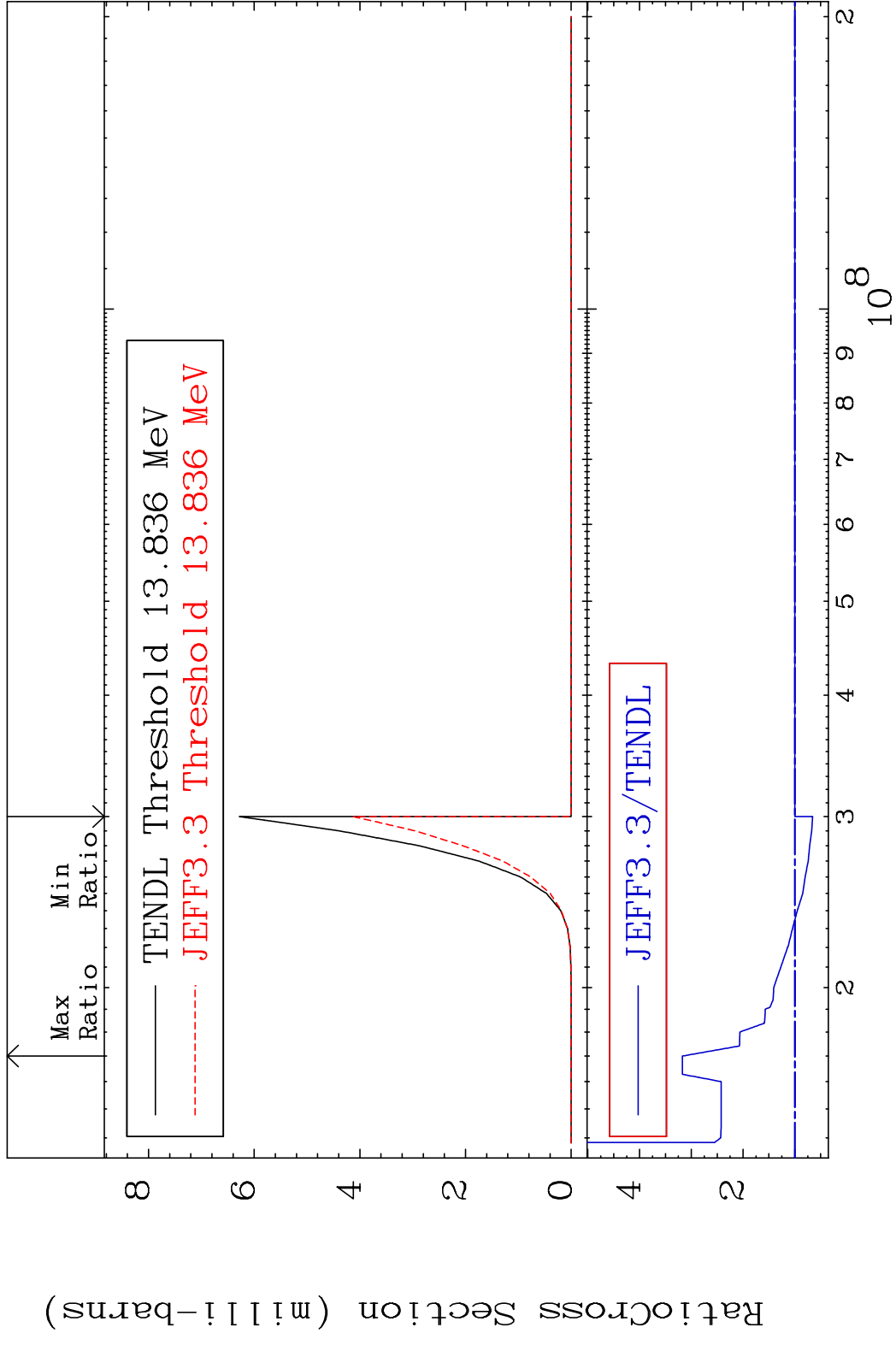


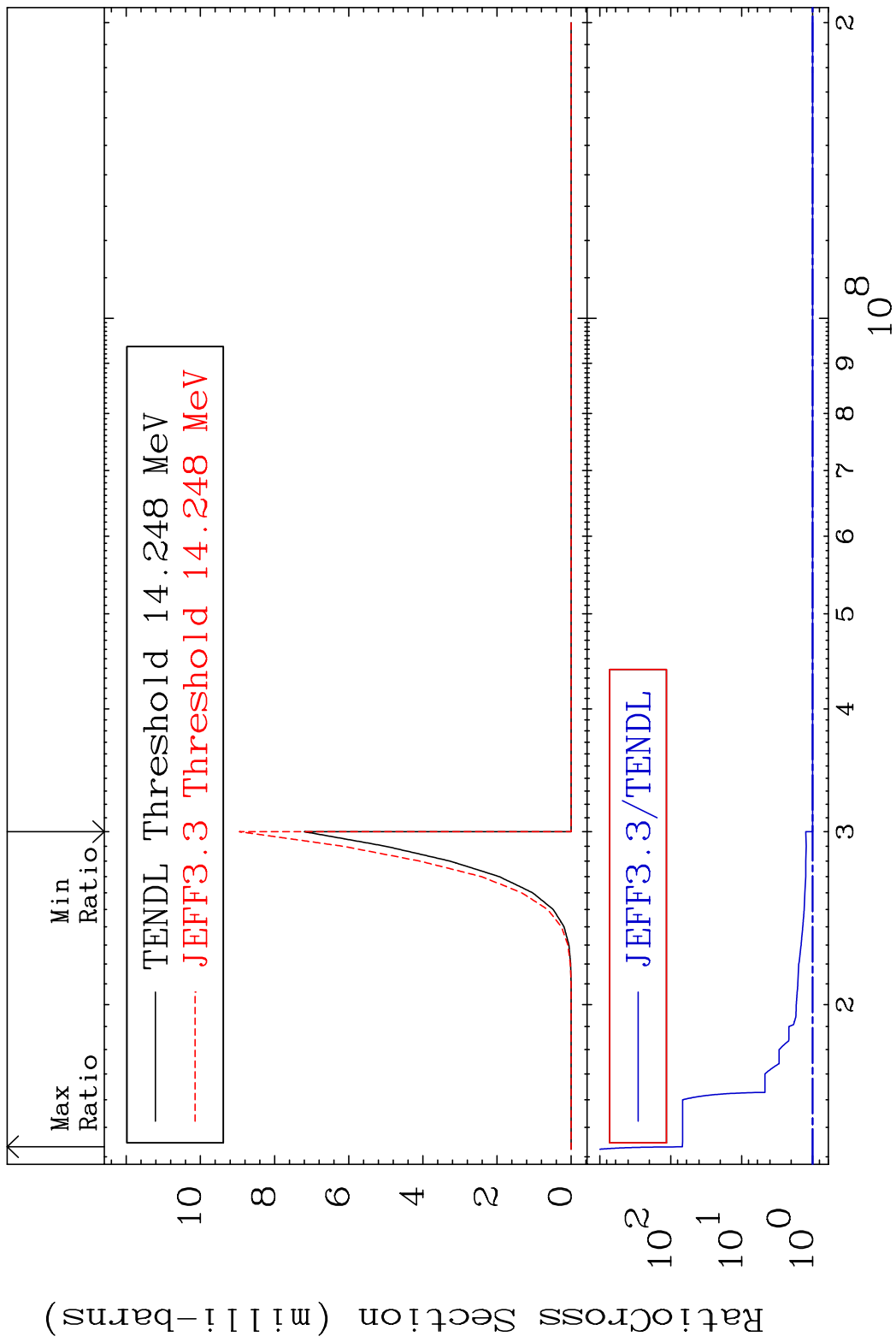


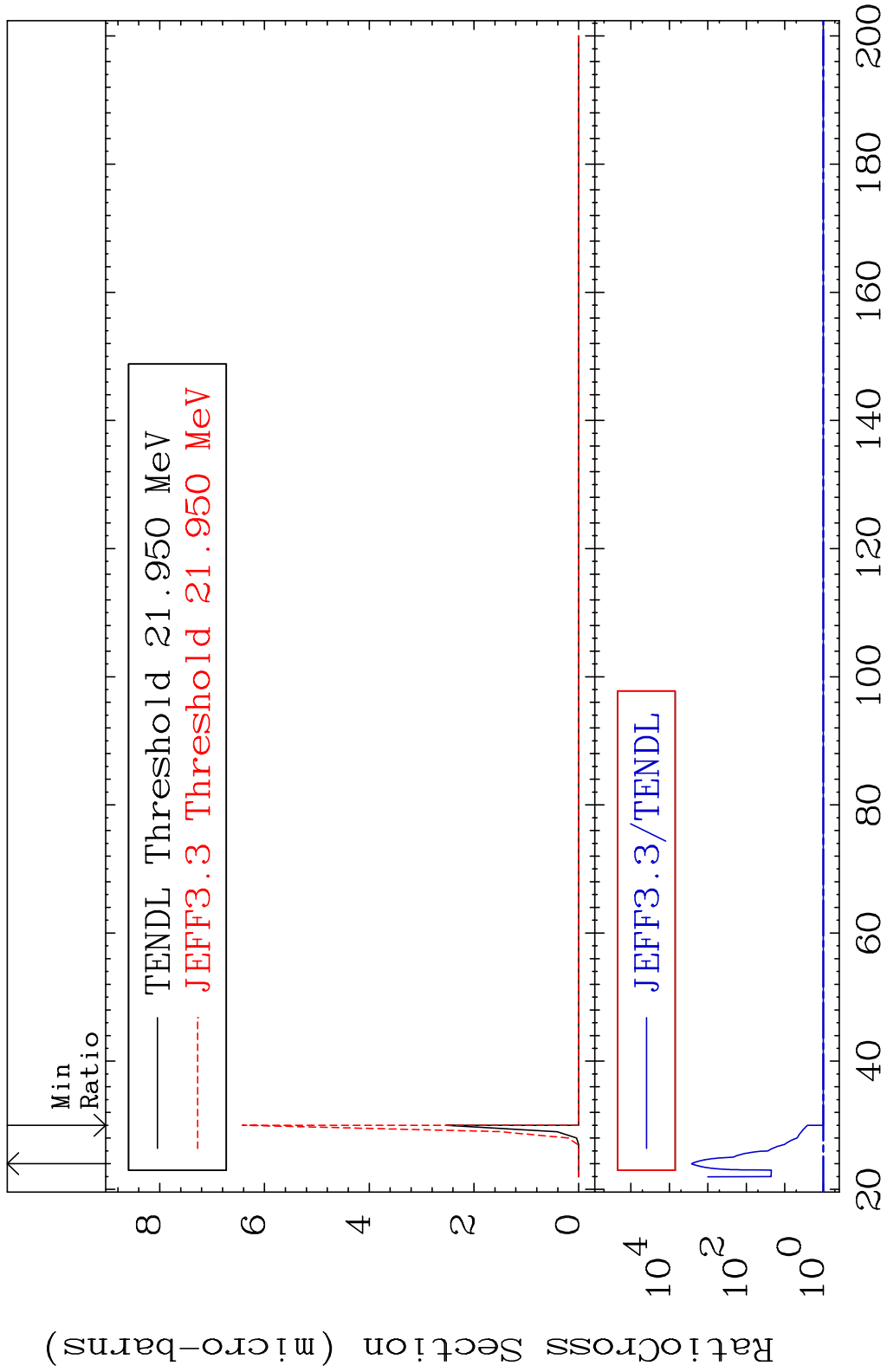




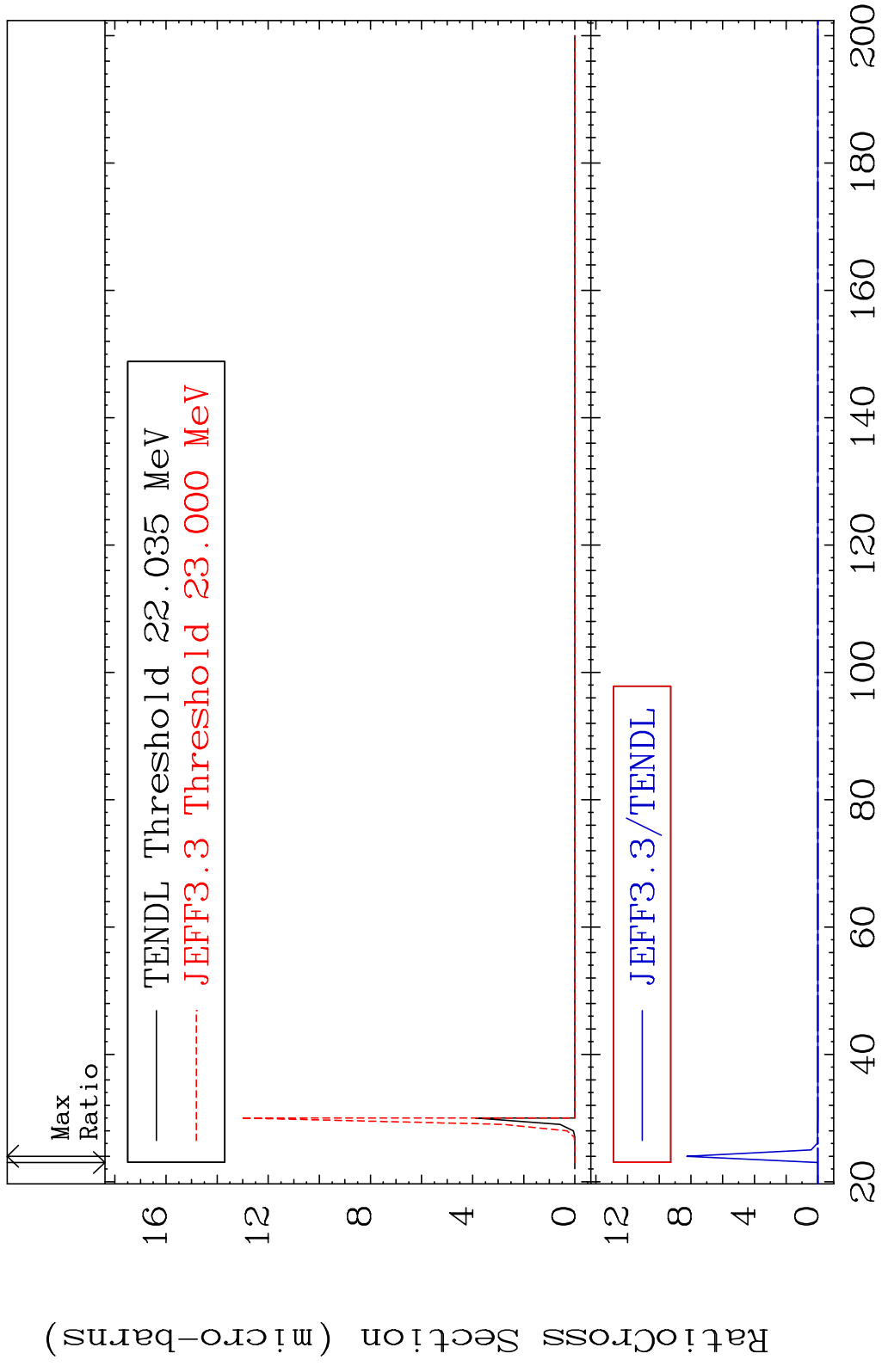


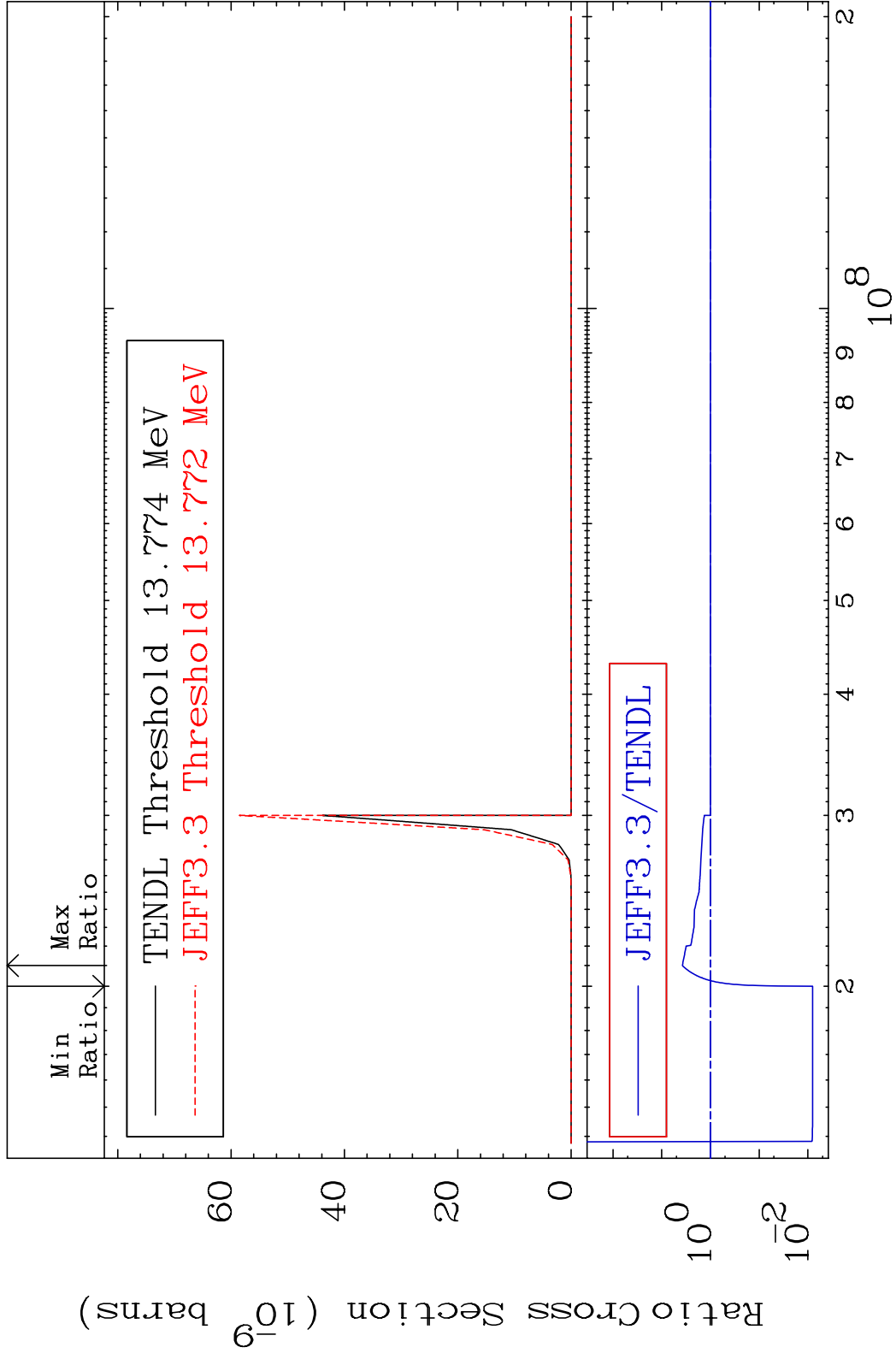


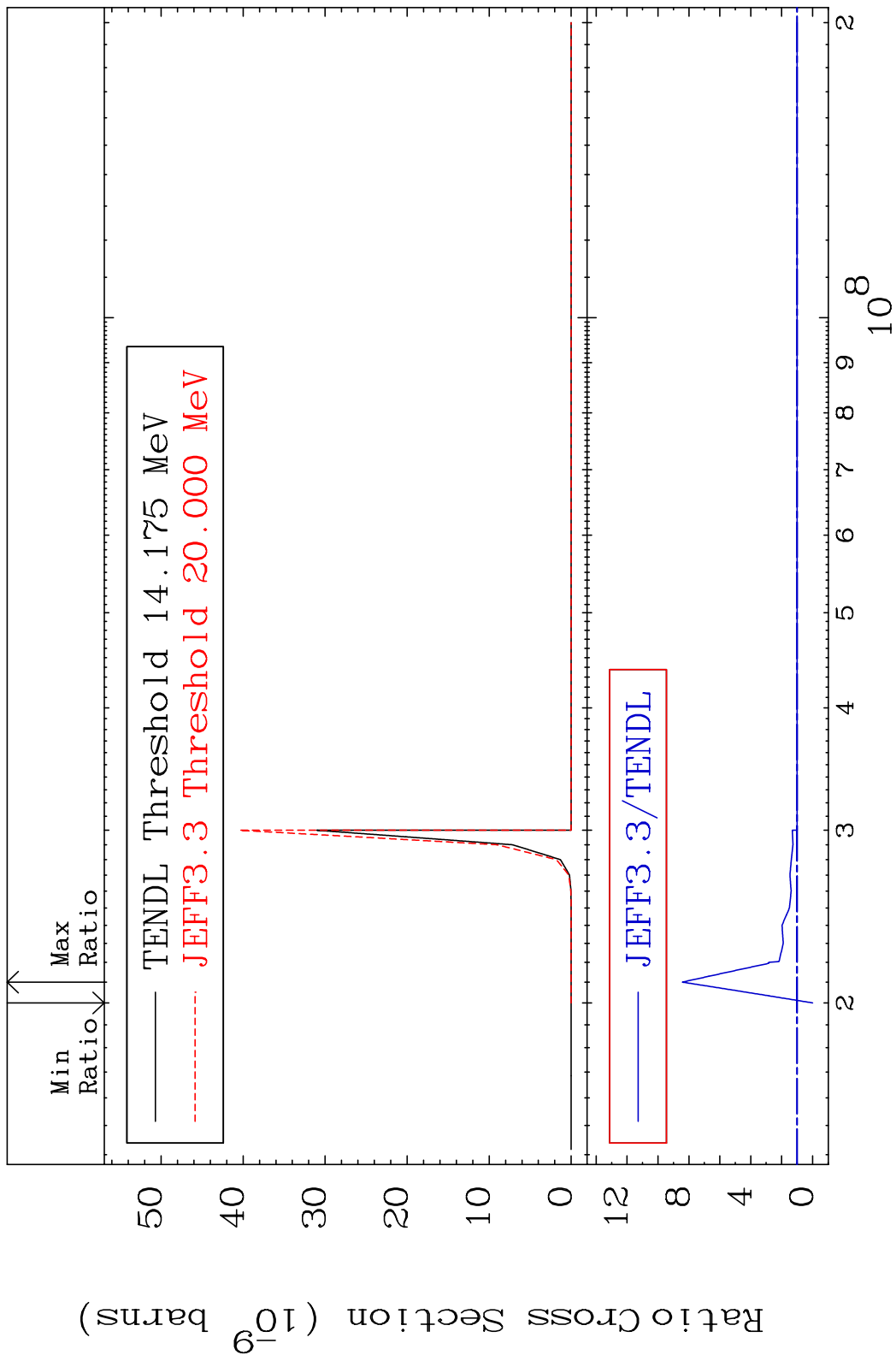


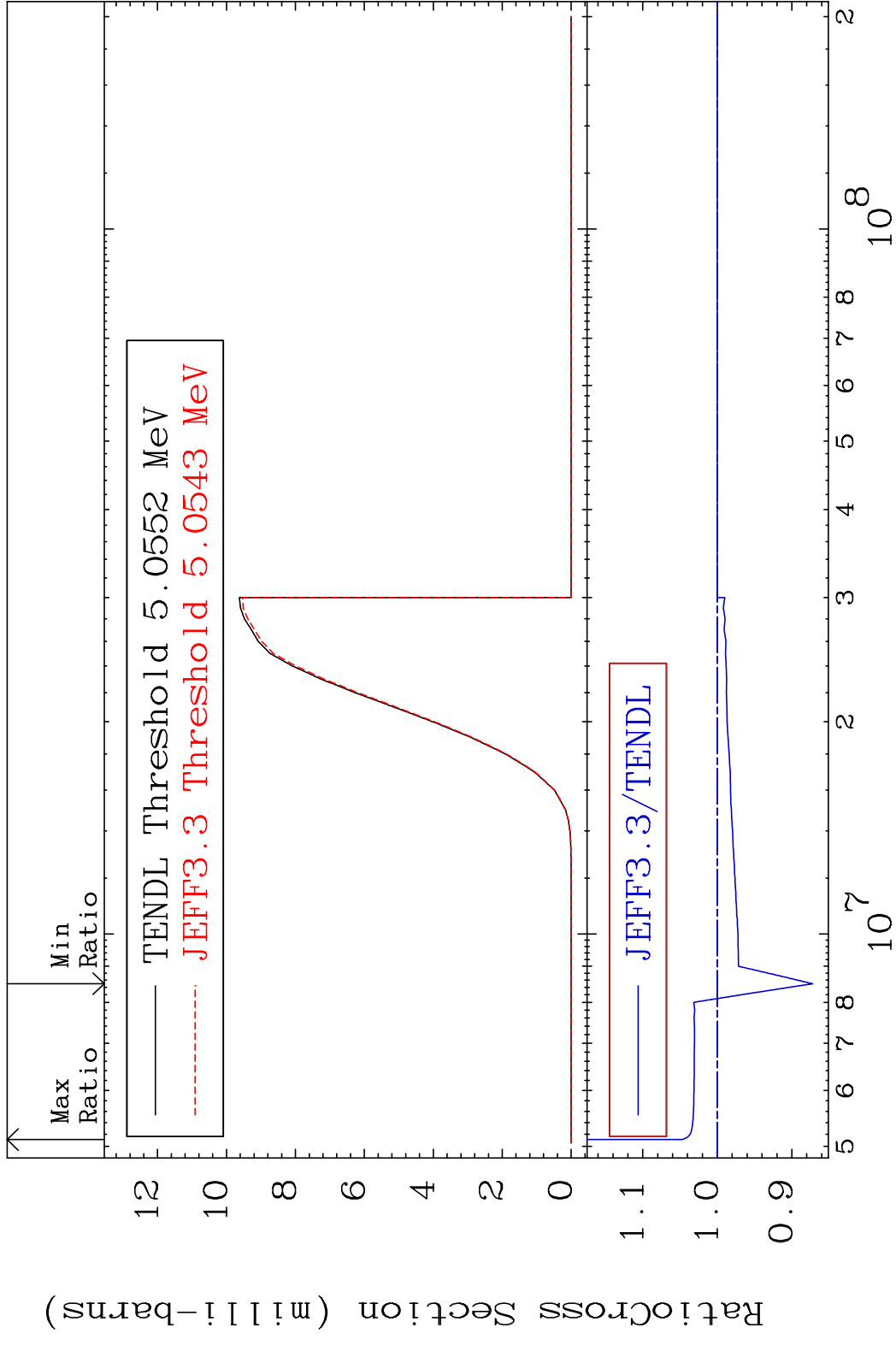




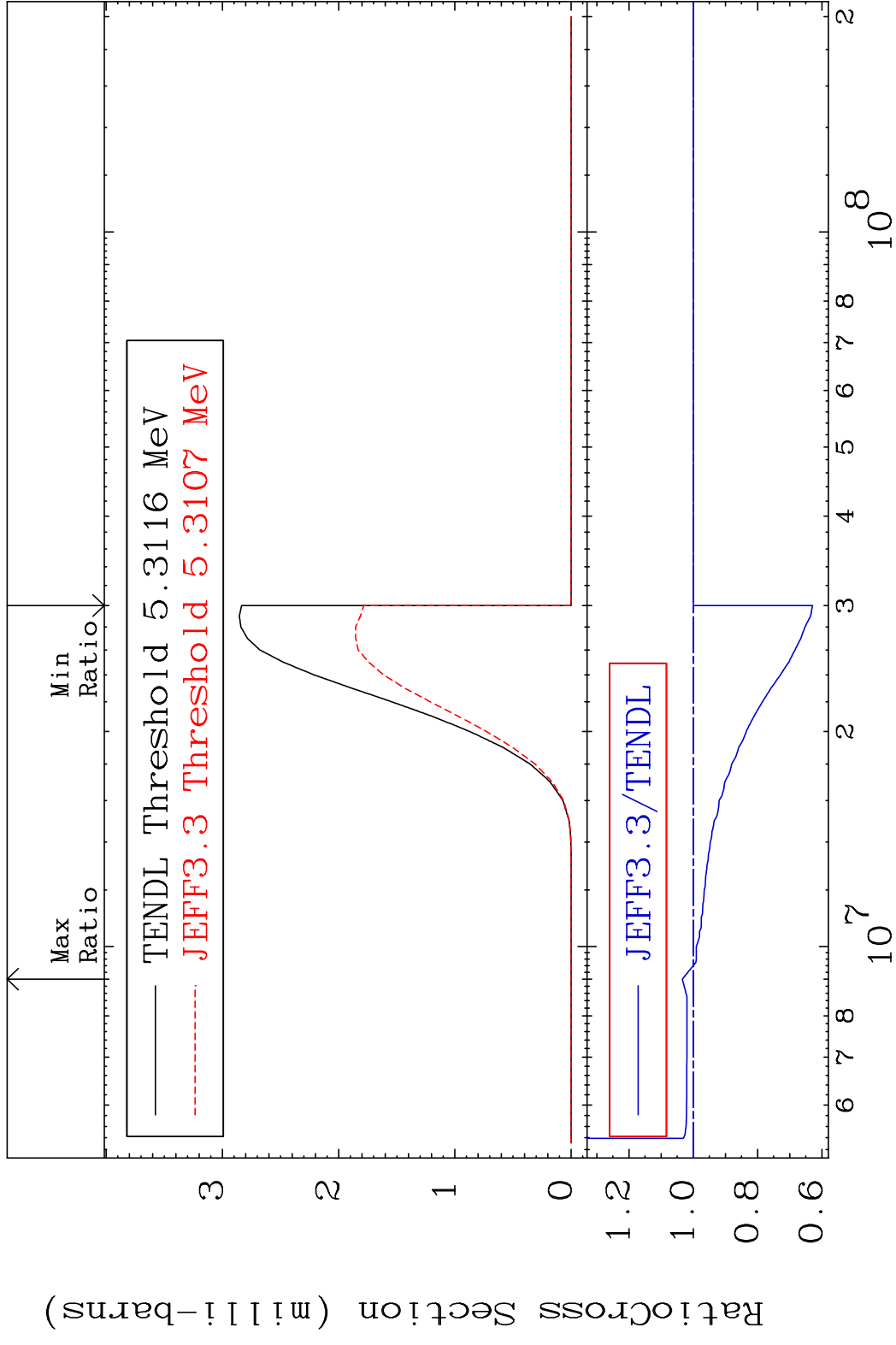








MAT 8034 (n, t): 79-Au-197g 80-Hg-199  
 Radionuclide Production Cross Section 3.407 %



MAT 8034 (n, t):79-Au-197m4 80-Hg-199  
 Radionuclide Production Cross Section 30.01 %

