

Program Complot  
(Version 2018-1)

by

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Press Mouse Button to Start

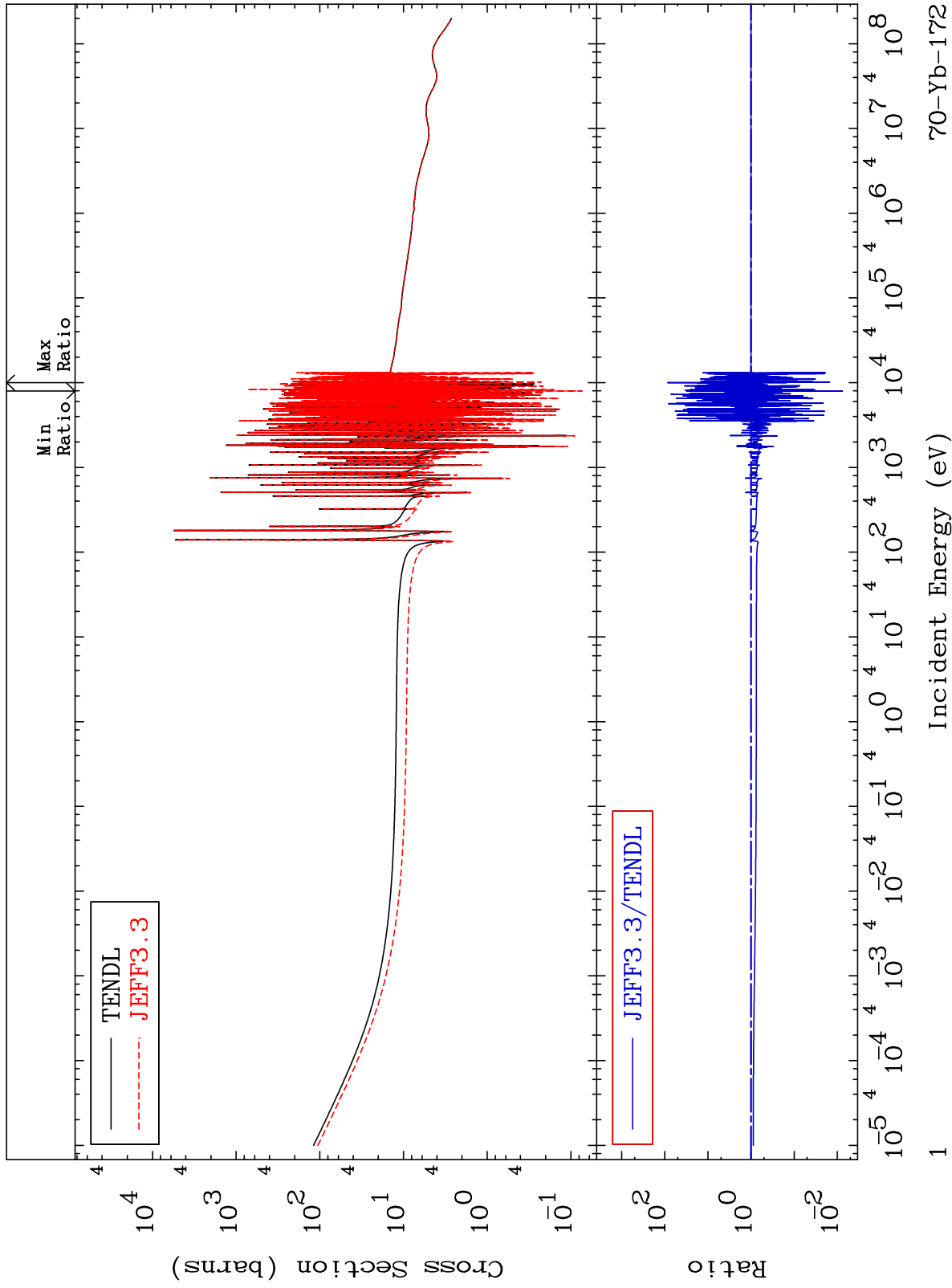
MAT 7037

Total

70-Yb-172

Cross Section

-99.25 To 8530. %

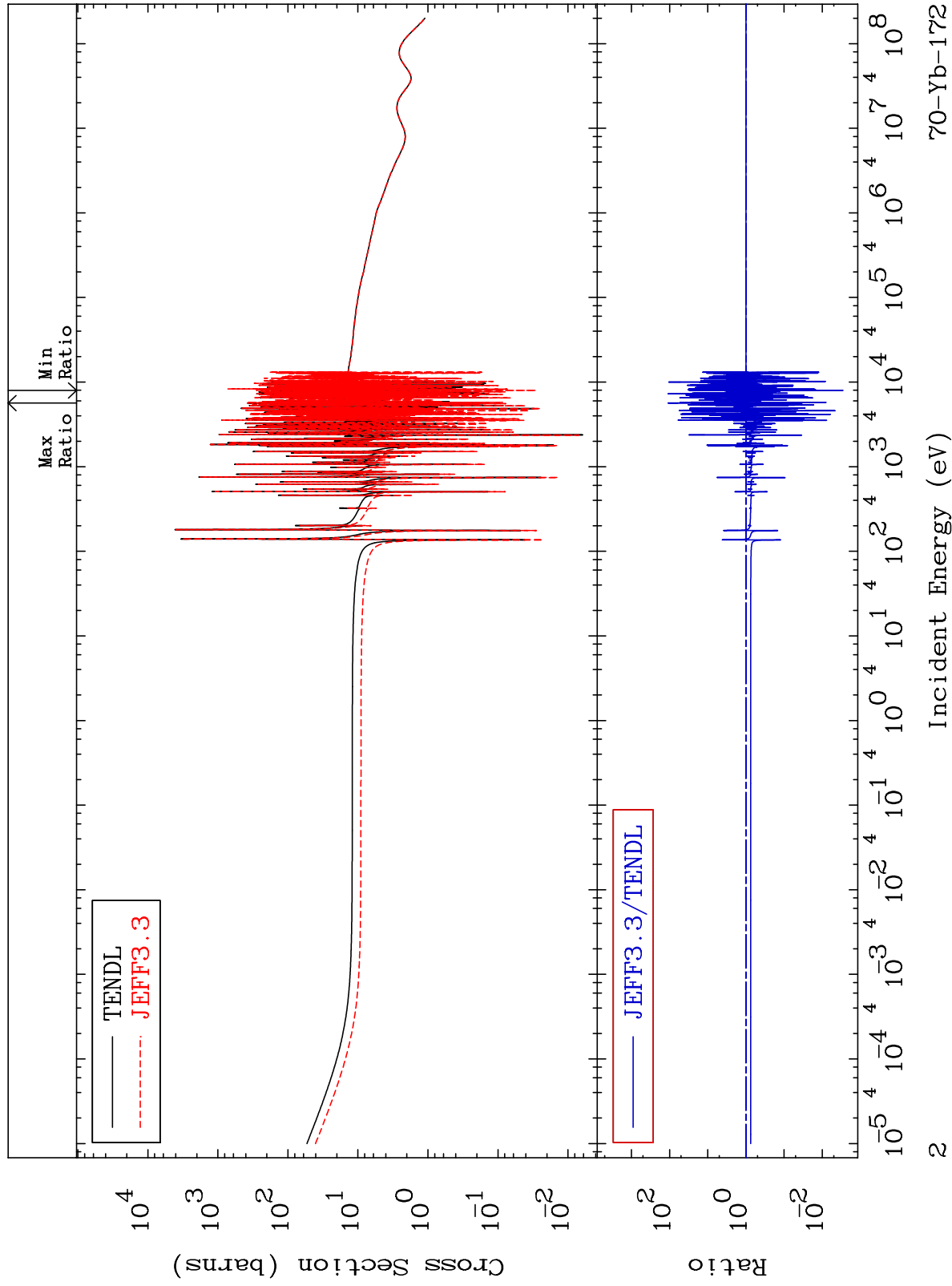


70-Yb-172

MAT 7037

Elastic  
Cross Section

70-Yb-172  
-99.71 To 9999. %

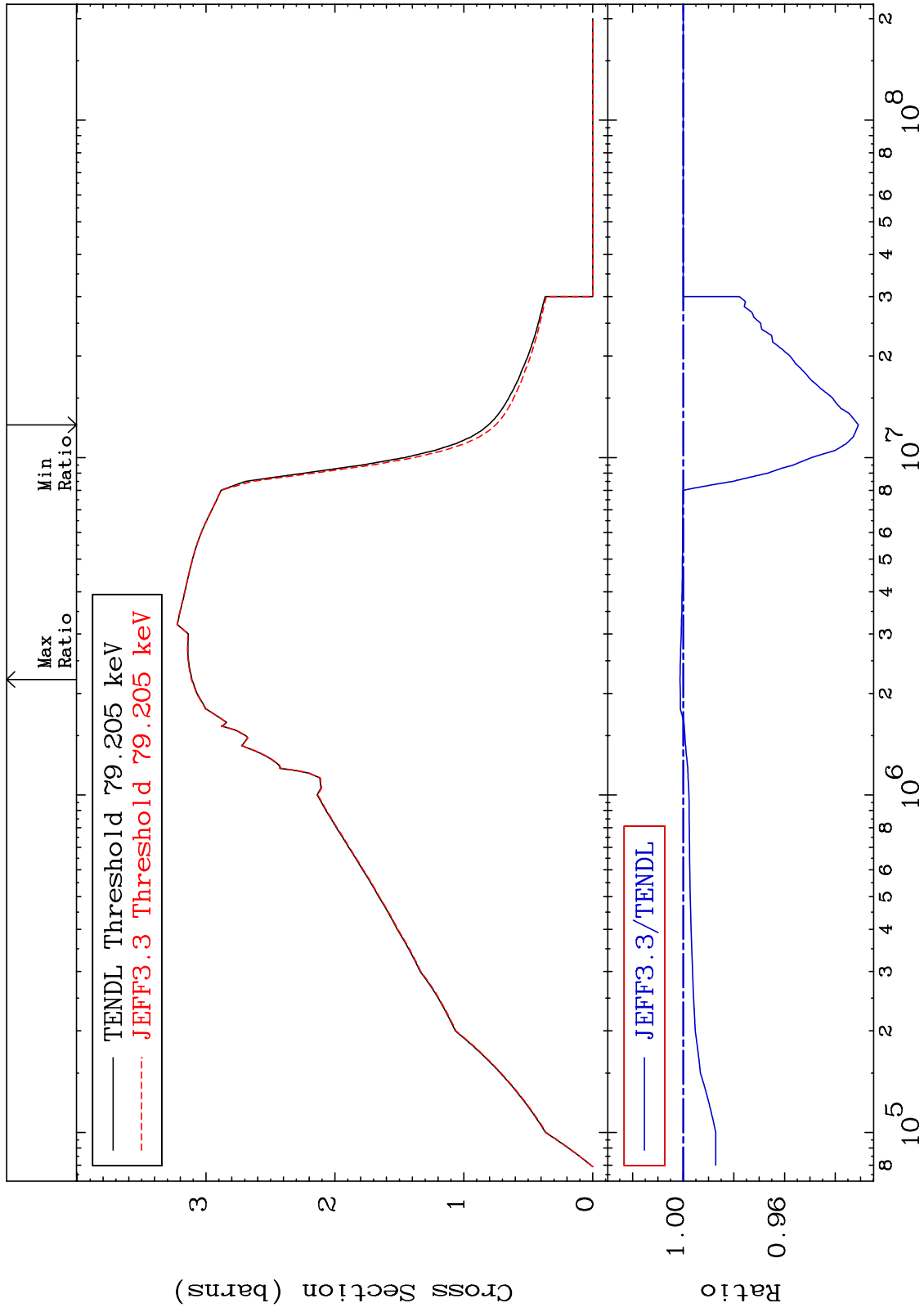


70-Yb-172

MAT 7037

70-Yb-172  
-6.916 To 0.125 %

Inelastic  
Cross Section



3 8 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup> 2  
Ratio  
Cross Section (barns)  
Incident Energy (eV)  
70-Yb-172

MAT 7037

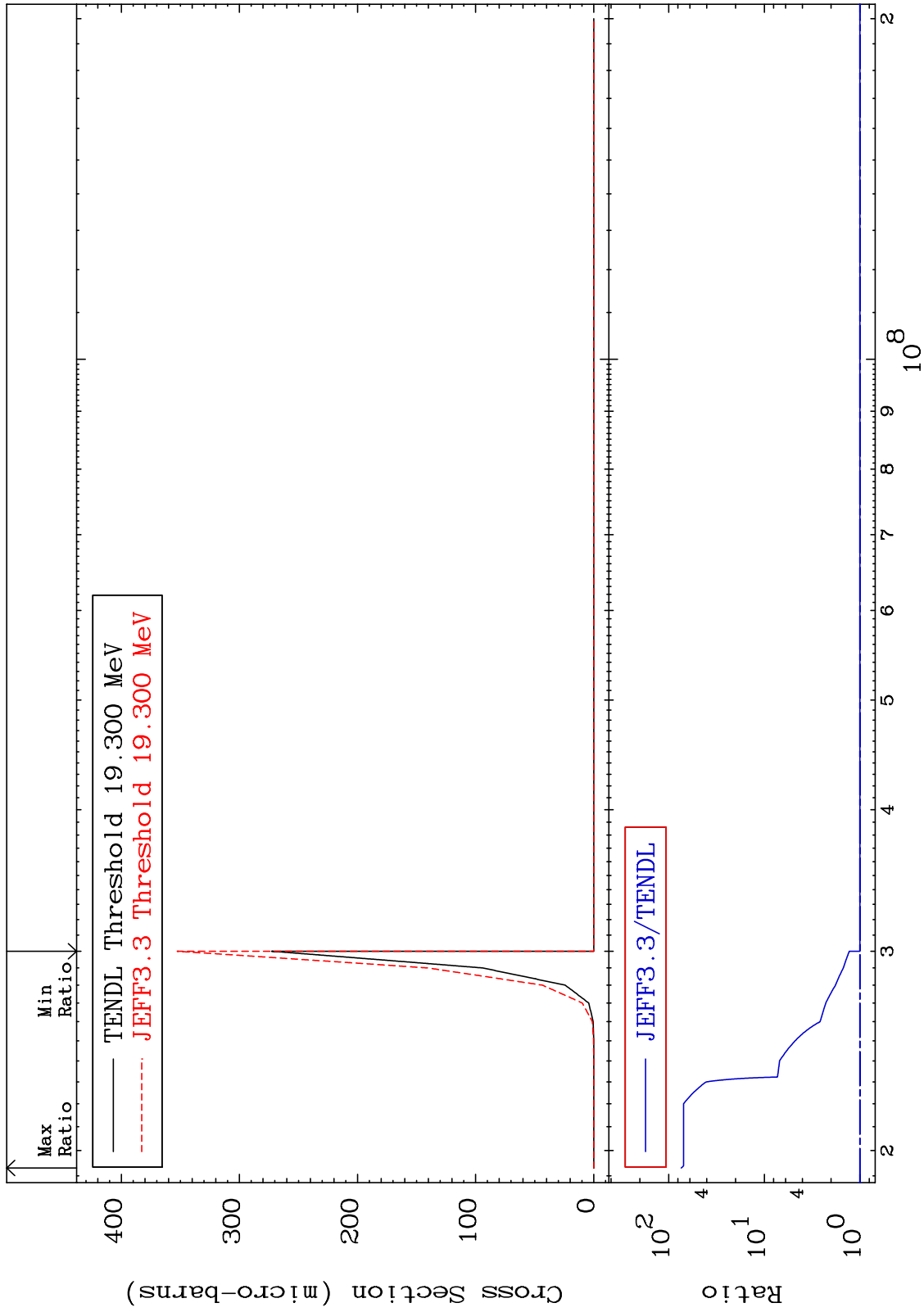
(n,2n) d

70-Yb-172

Cross Section

0.000

To 7295. %



Max Ratio

Min Ratio

TENDL Threshold 19.300 MeV  
JEFF3.3 Threshold 19.300 MeV

JEFF3.3/TENDL

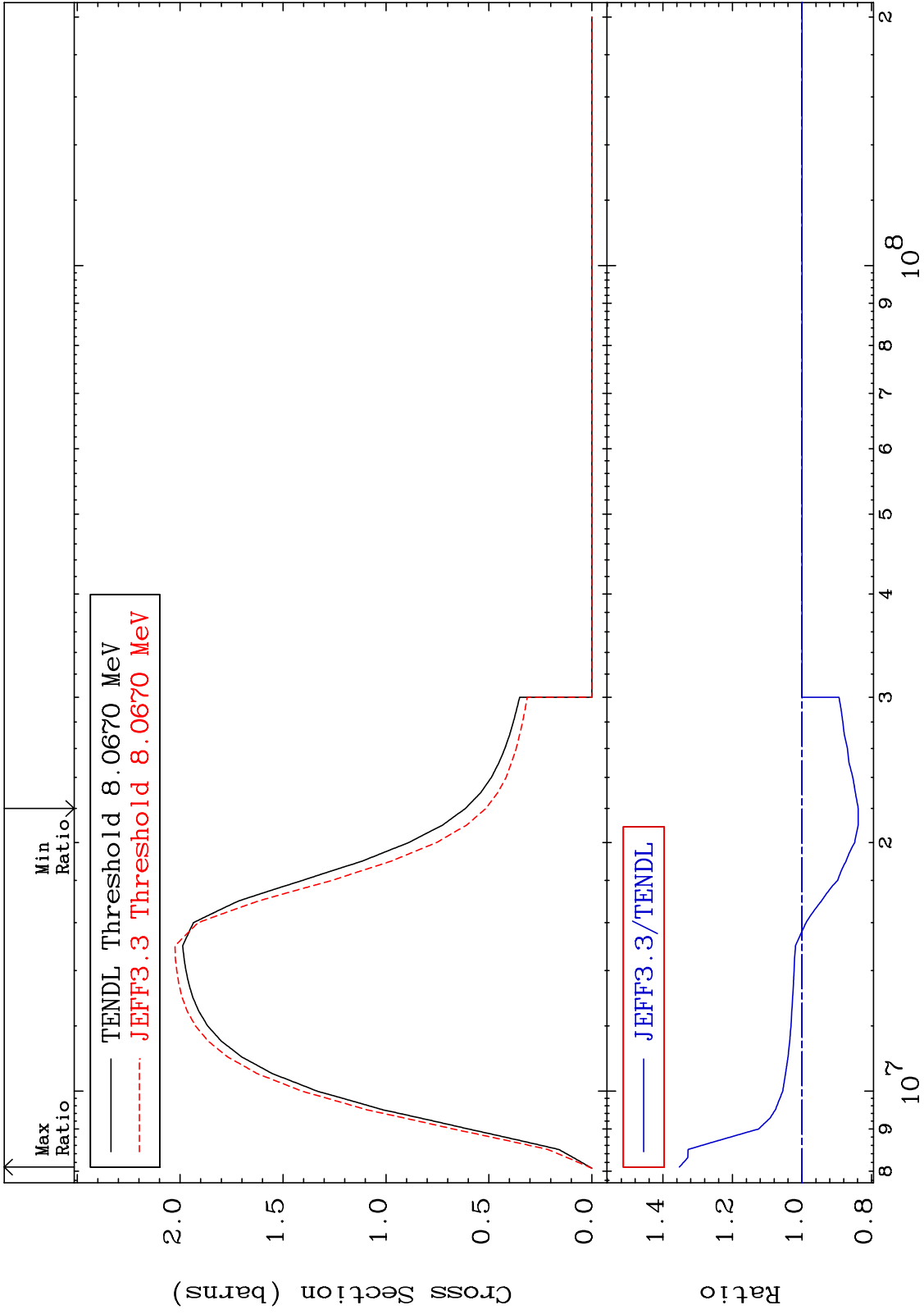
MAT 7037

(n, 2n)

70-Yb-172

Cross Section

-16.18 To 35.28 %



70-Yb-172

Incident Energy (eV)

5

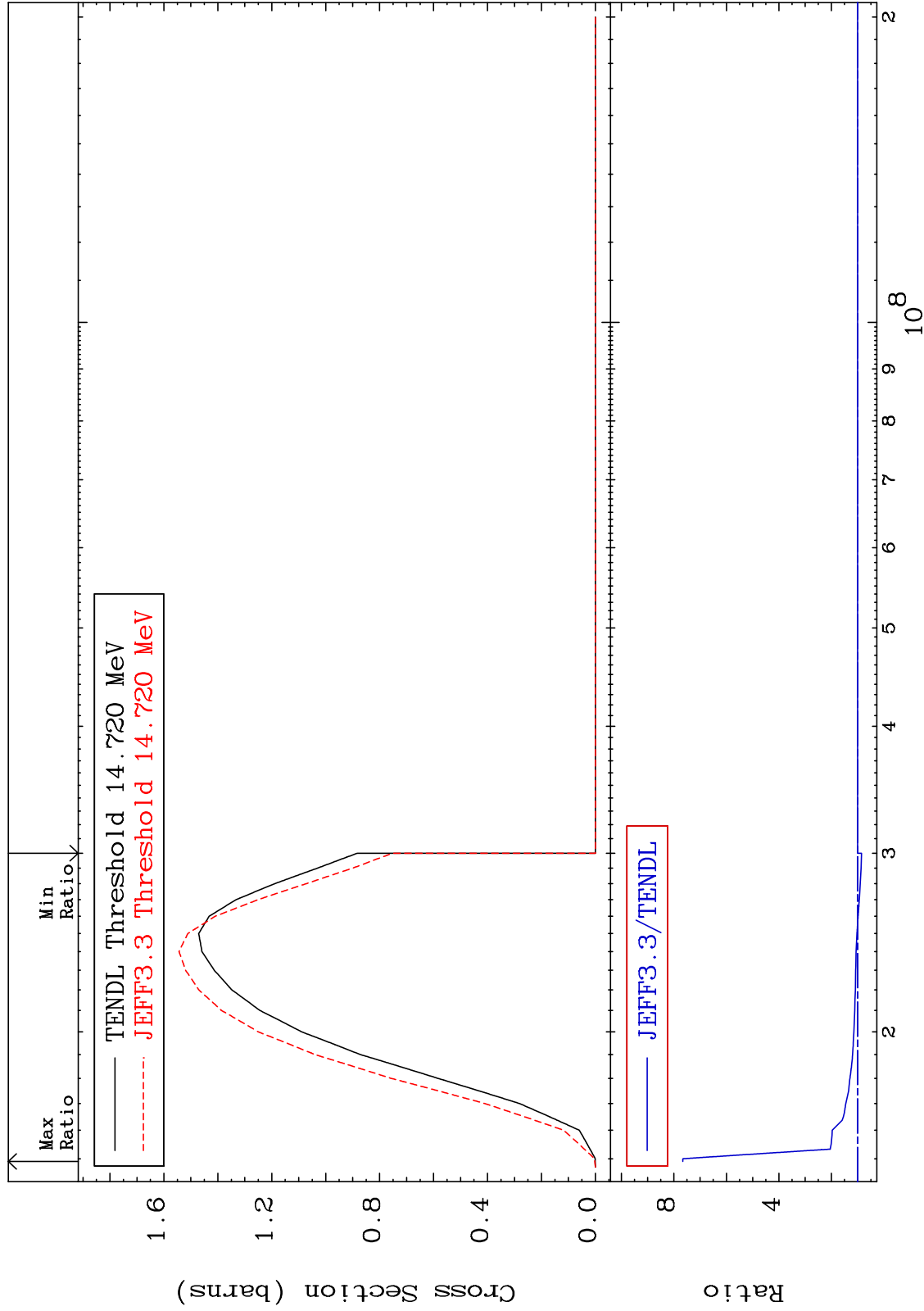
MAT 7037

(n, 3n)

70-Yb-172

Cross Section

-14.78 To 665.8 %



6

Incident Energy (eV)

70-Yb-172

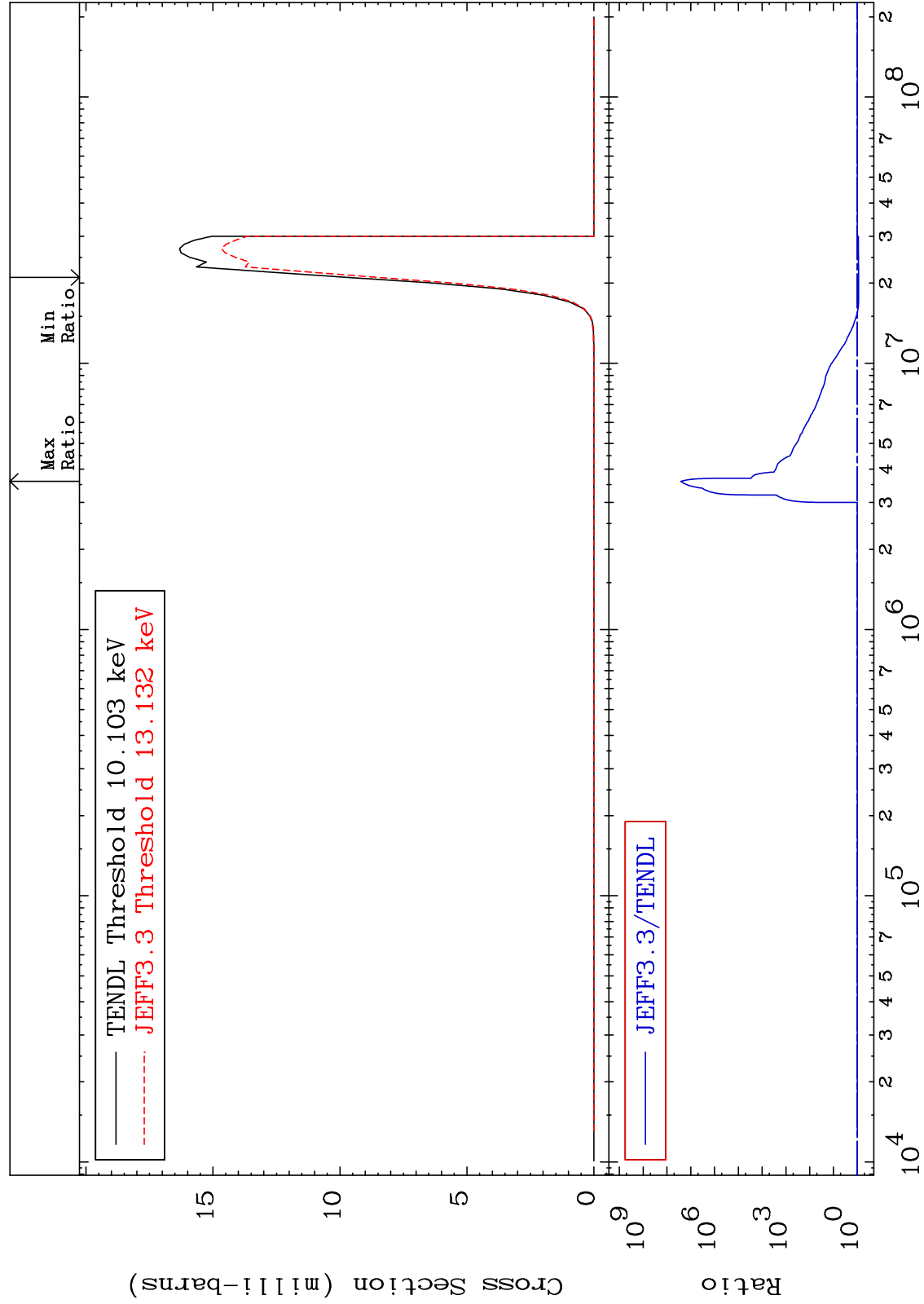
MAT 7037

(n, n')  $\alpha$

70-Yb-172

-12.42 To 9999. %

Cross Section



Incident Energy (eV)

70-Yb-172



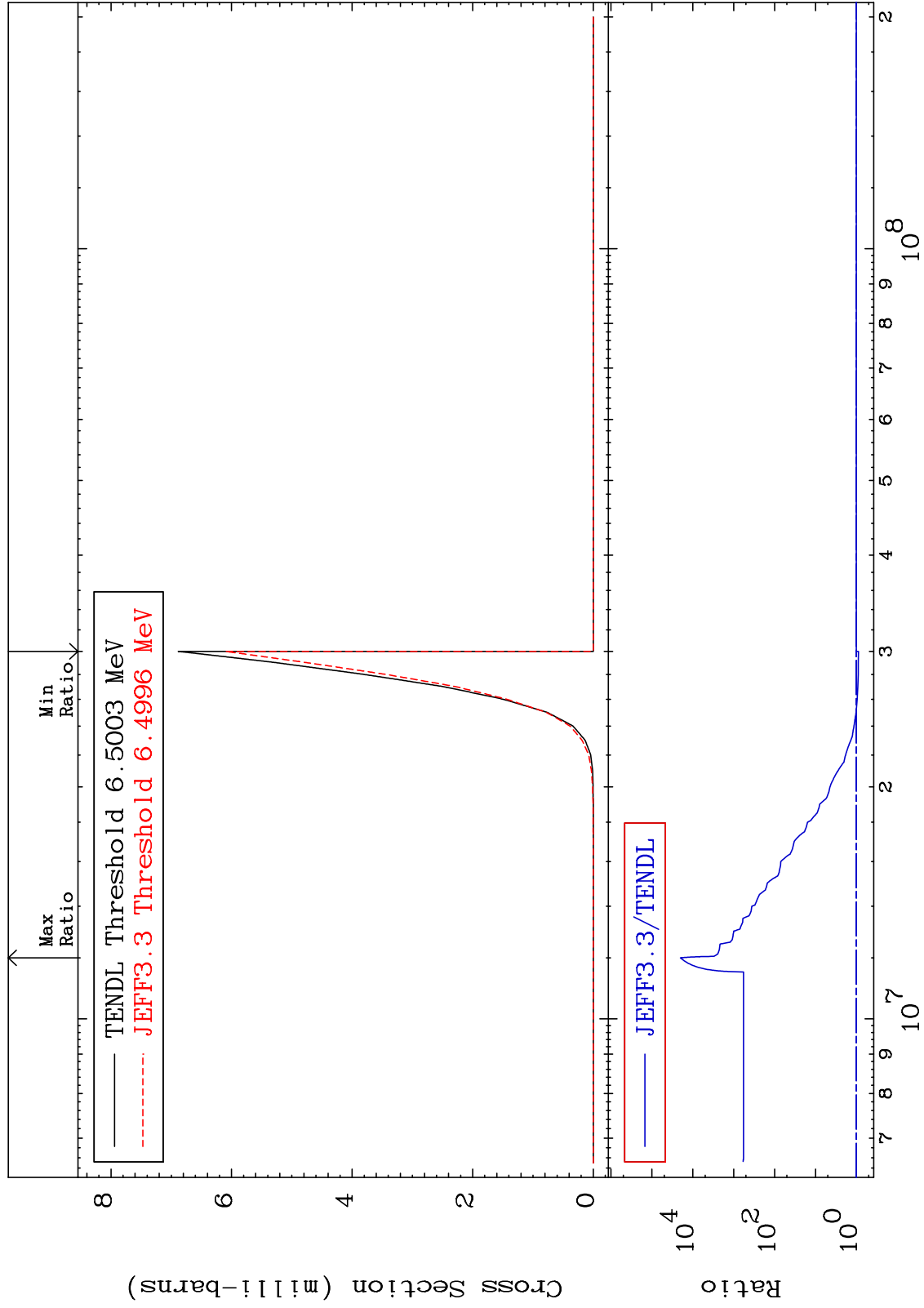
MAT 7037

(n,2n)  $\alpha$

70-Yb-172

-11.34 To 9999. %

Cross Section



8

Incident Energy (eV)

70-Yb-172

MAT 7037

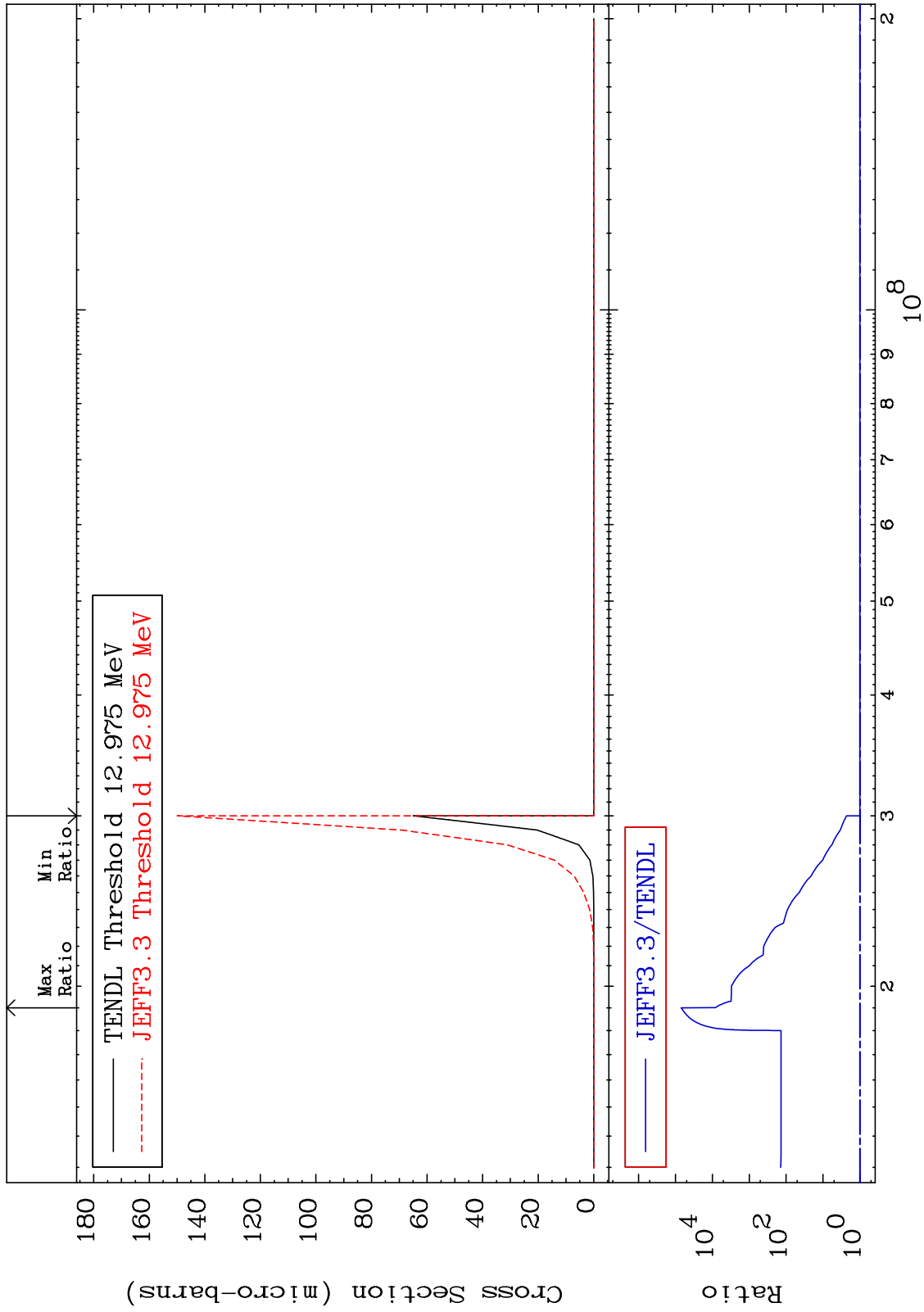
(n, 3n)  $\alpha$

70-Yb-172

Cross Section

0.000

To 9999. %



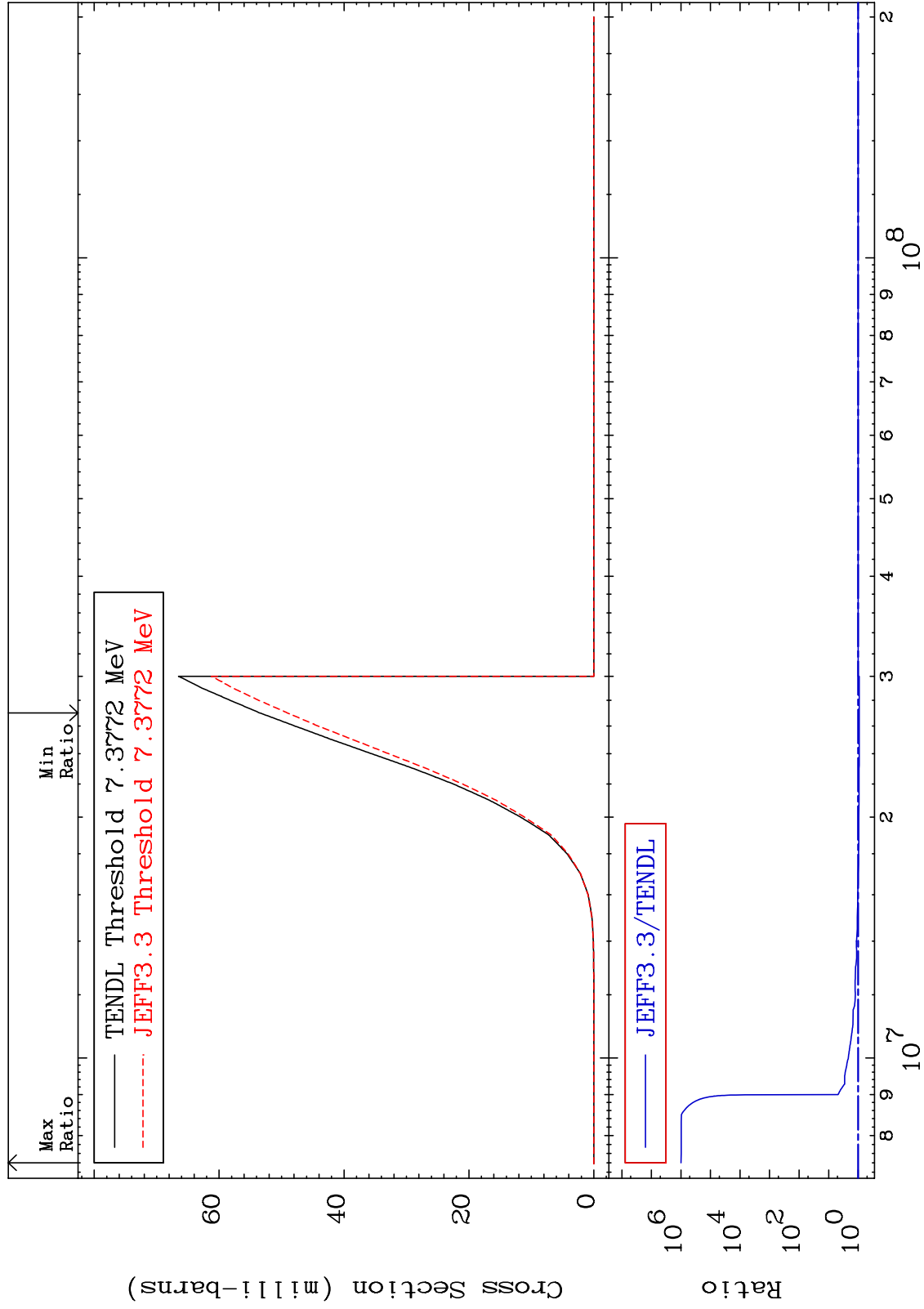
MAT 7037

(n,n') p

70-Yb-172

Cross Section

-8.271 To 9999. %



10

Incident Energy (eV)

70-Yb-172

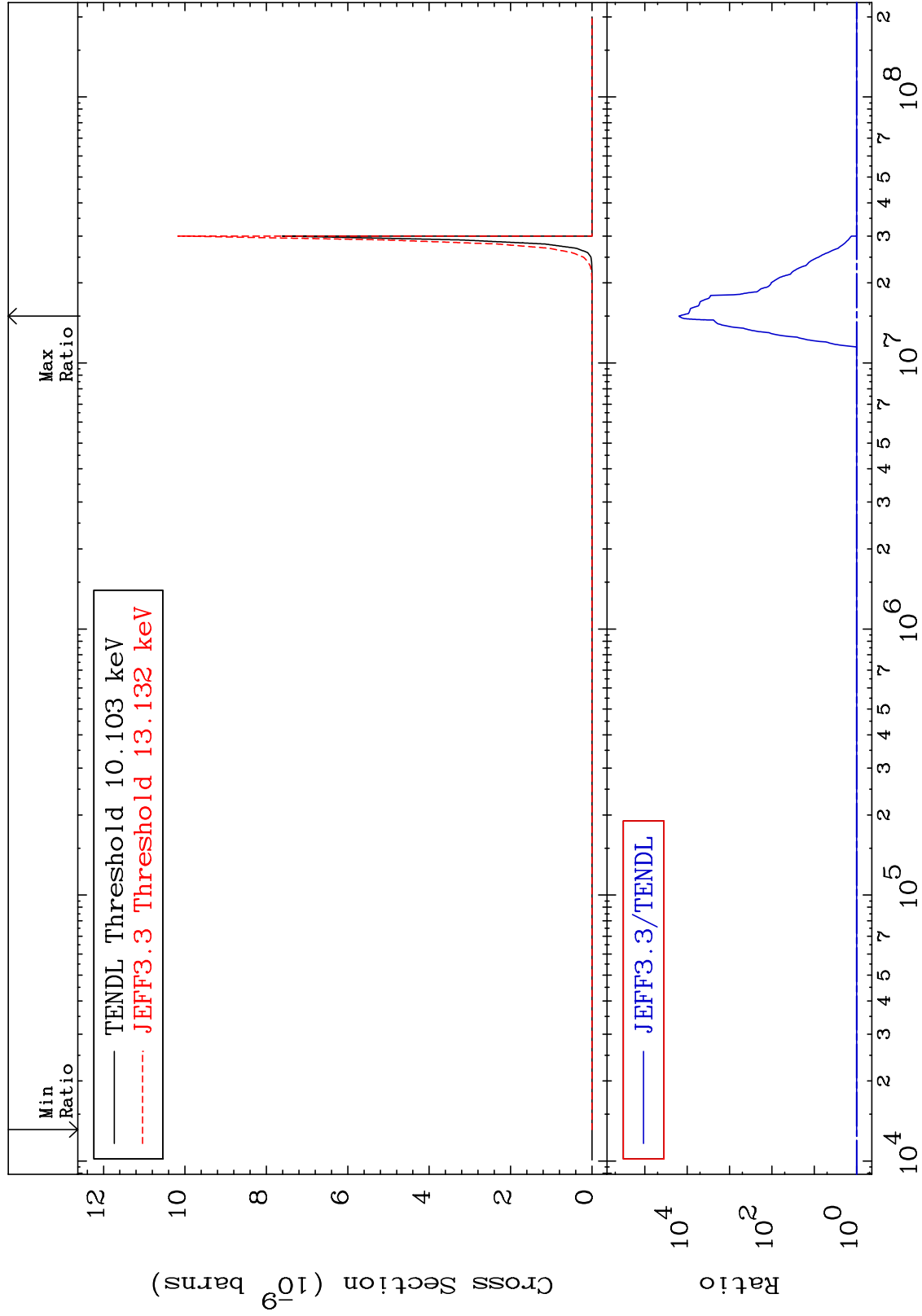
MAT 7037

(n, n')  $2\alpha$

70-Yb-172

Cross Section

0.000 To 9999. %



11

Incident Energy (eV)

70-Yb-172

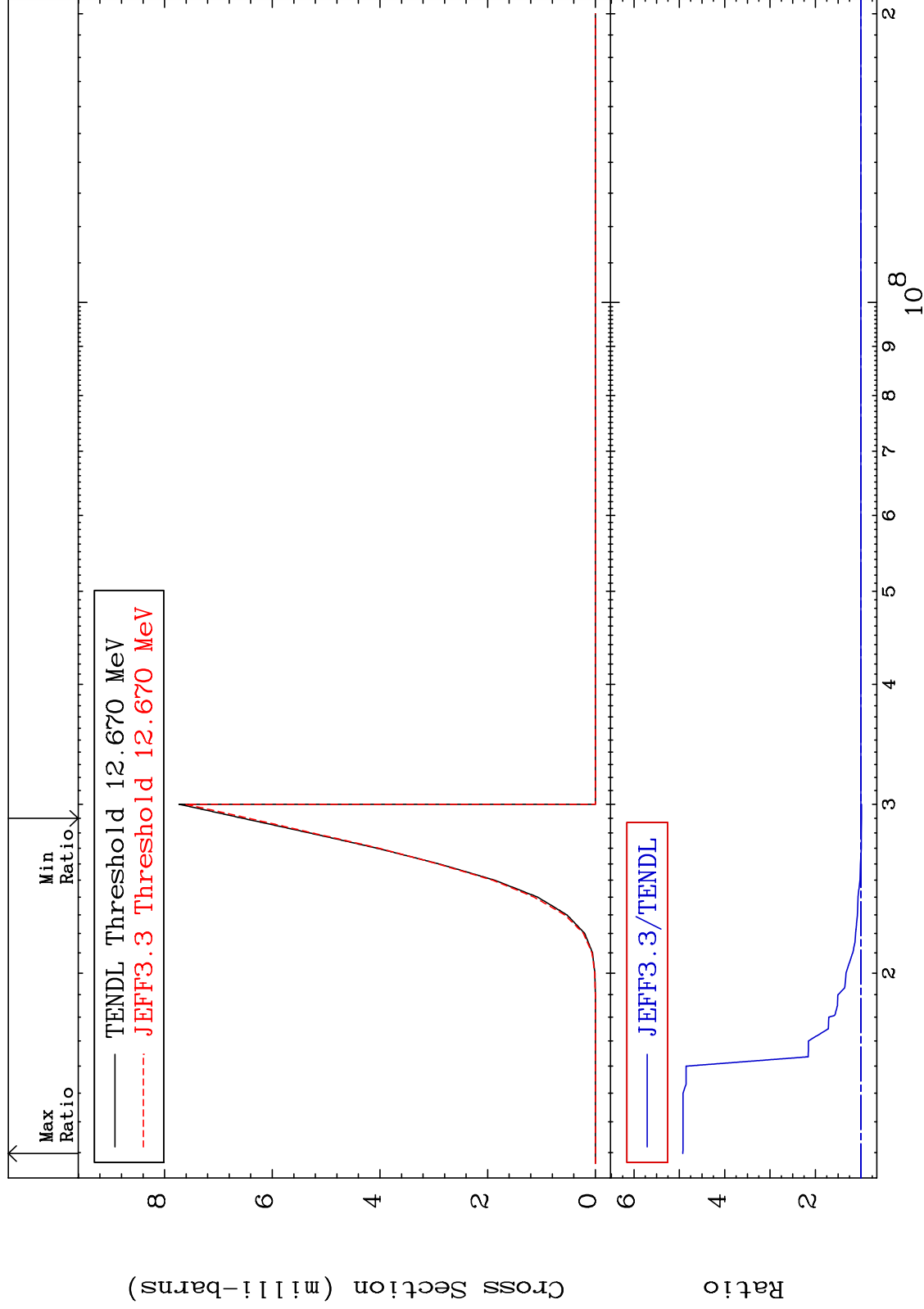
MAT 7037

(n, n') d

70-Yb-172

Cross Section

-1.686 To 392.2 %



MAT 7037

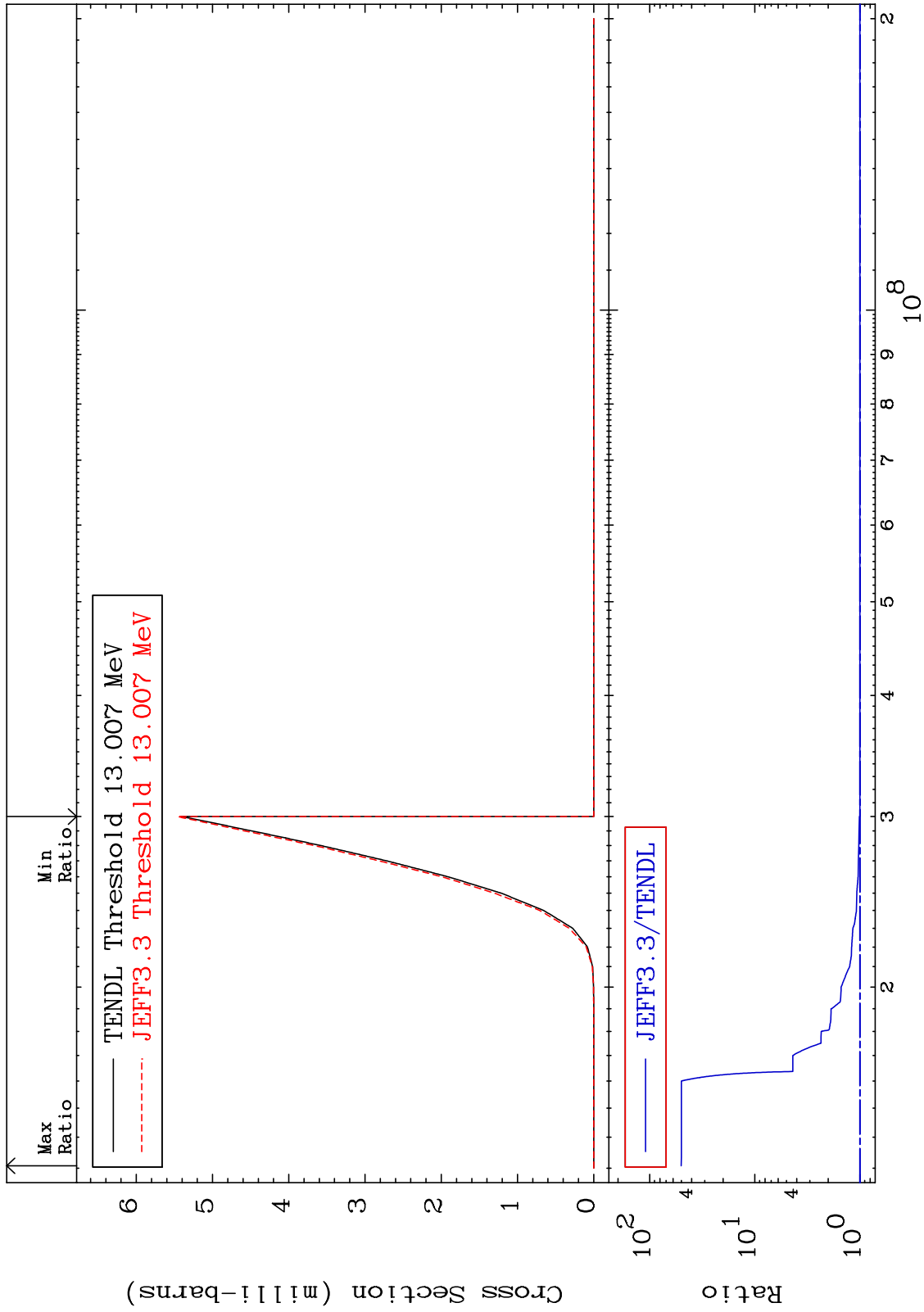
(n,n') t

70-Yb-172

Cross Section

0.000

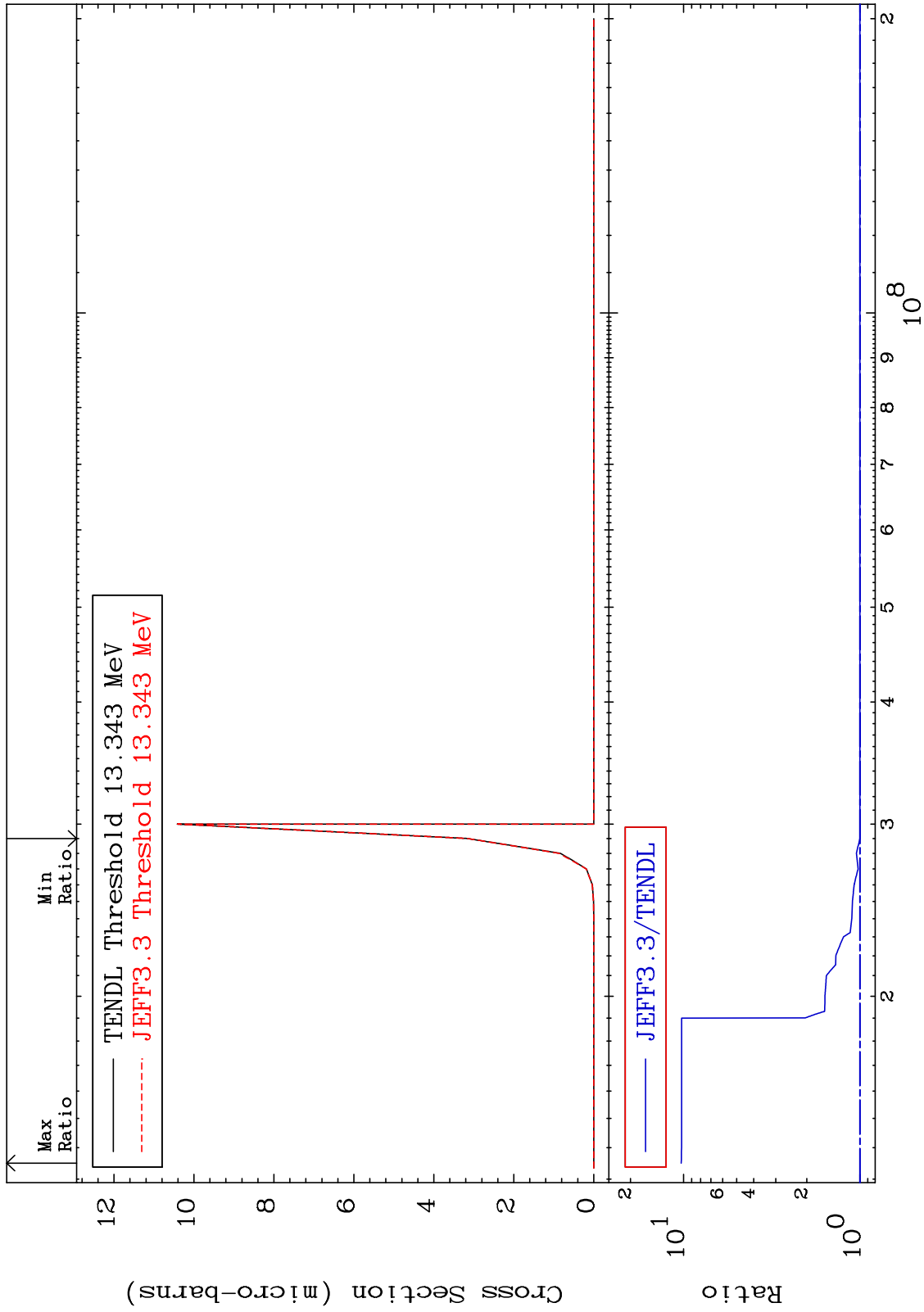
To 4915. %



MAT 7037

(n, n') He-3  
Cross Section

70-Yb-172  
-0.192 To 930.7 %



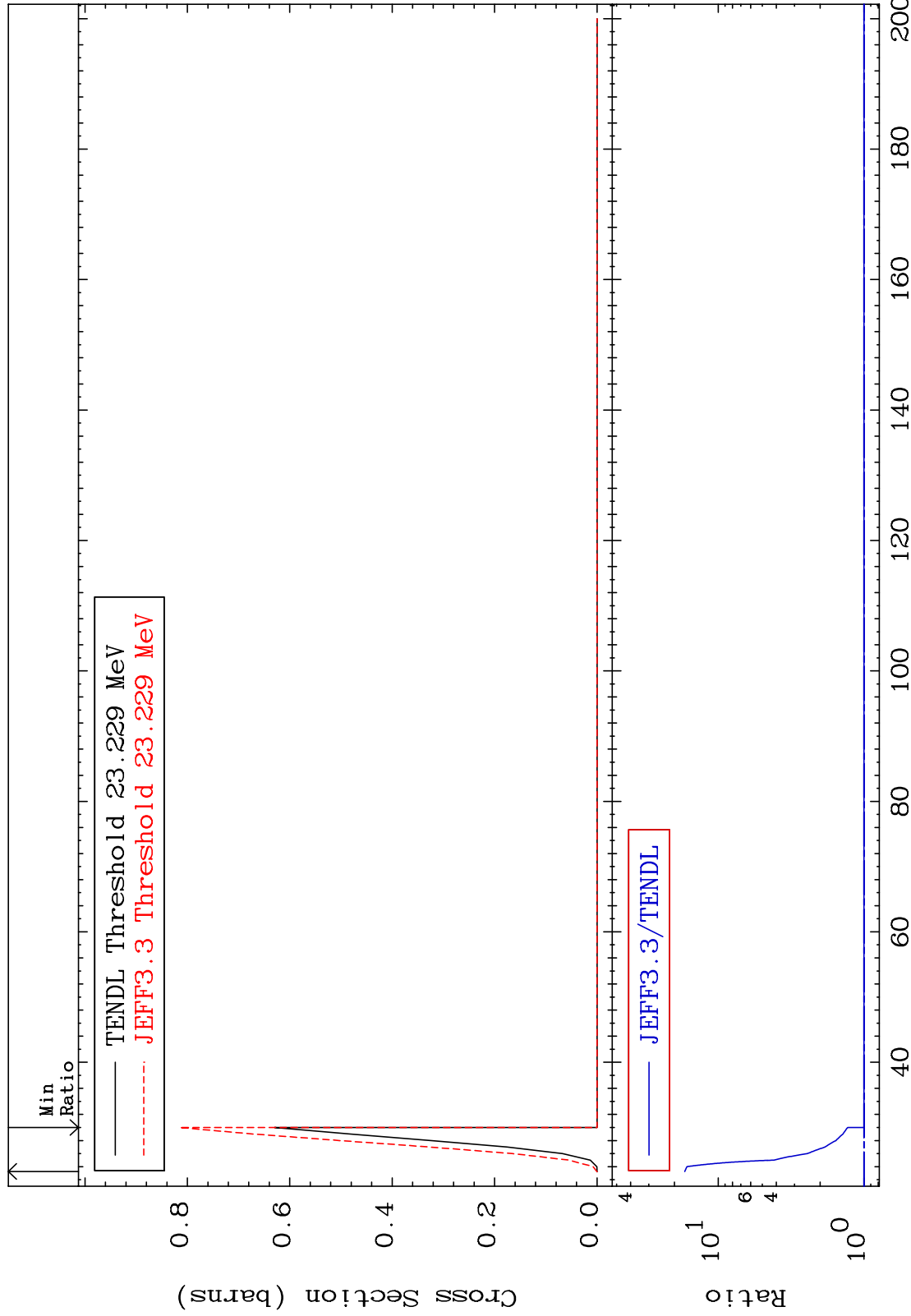
MAT 7037

(n, 4n)

70-Yb-172

Cross Section

0.000 To 1600. %

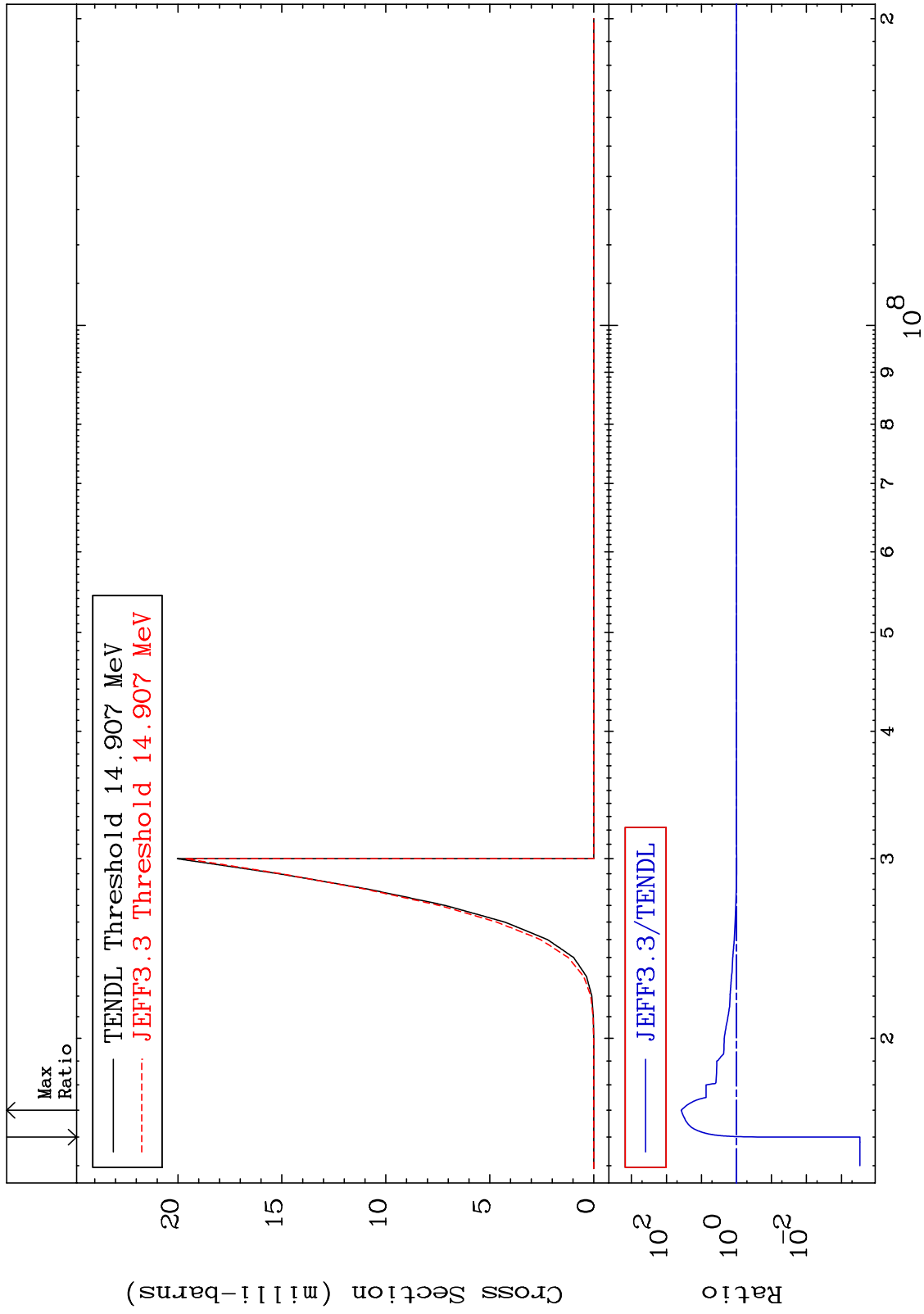




MAT 7037

(n,2n) p  
Cross Section

70-Yb-172  
-99.97 To 3682. %



MAT 7037

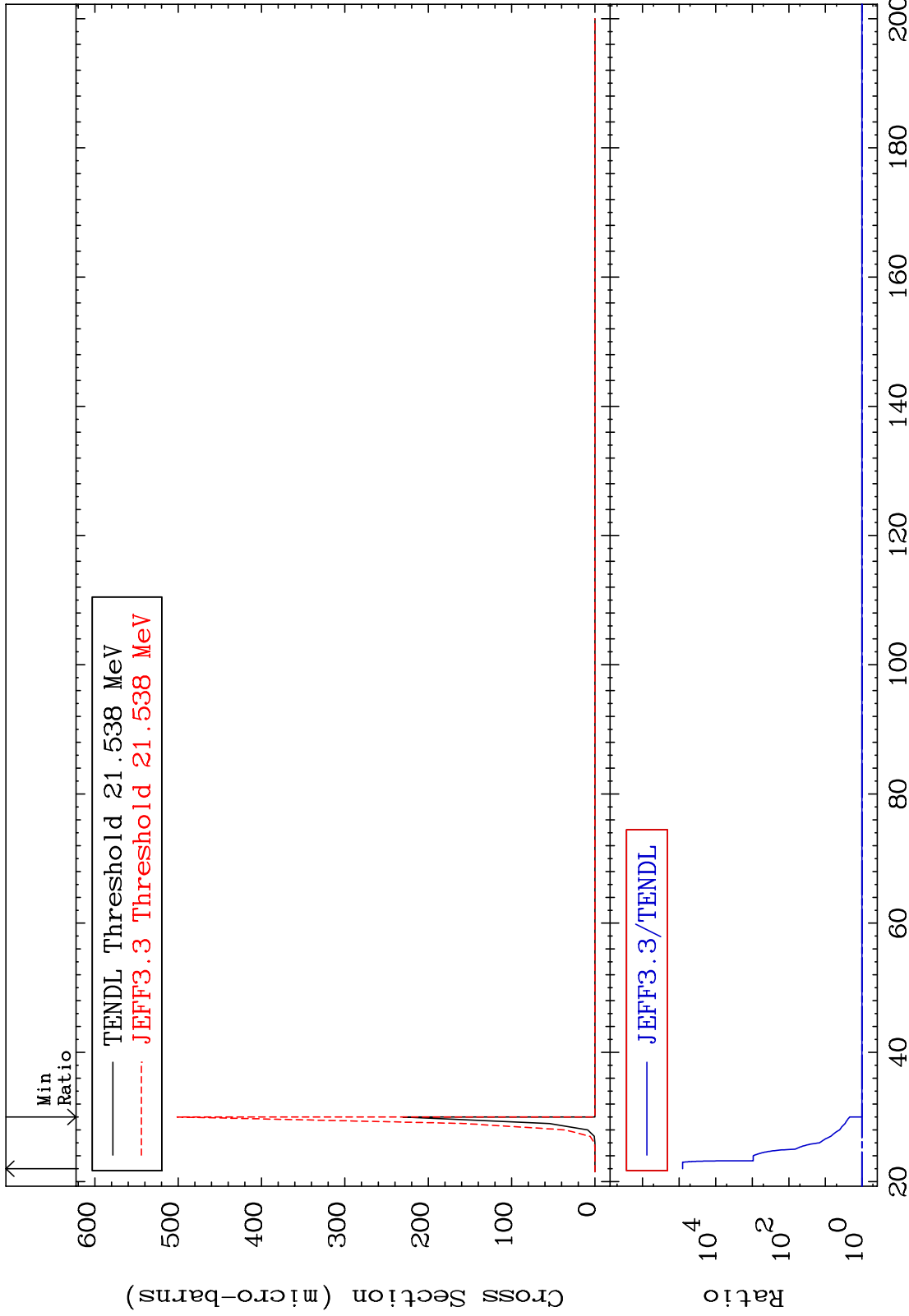
(n,3n) p

<sup>70</sup>Yb-172

Cross Section

0.000

To 9999. %



<sup>70</sup>Yb-172

Incident Energy (MeV)

17

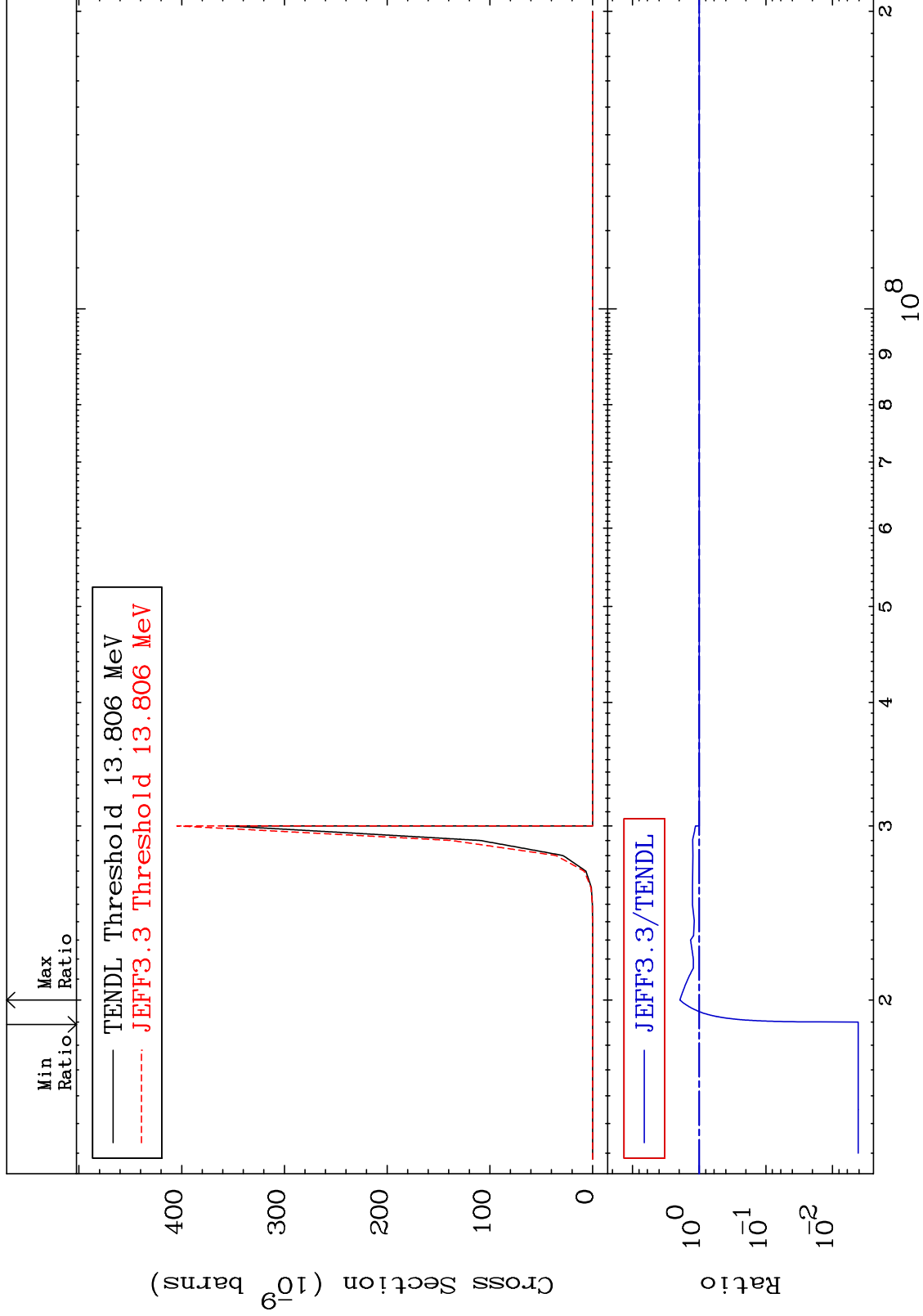
MAT 7037

(n,2n) p

70-Yb-172

Cross Section

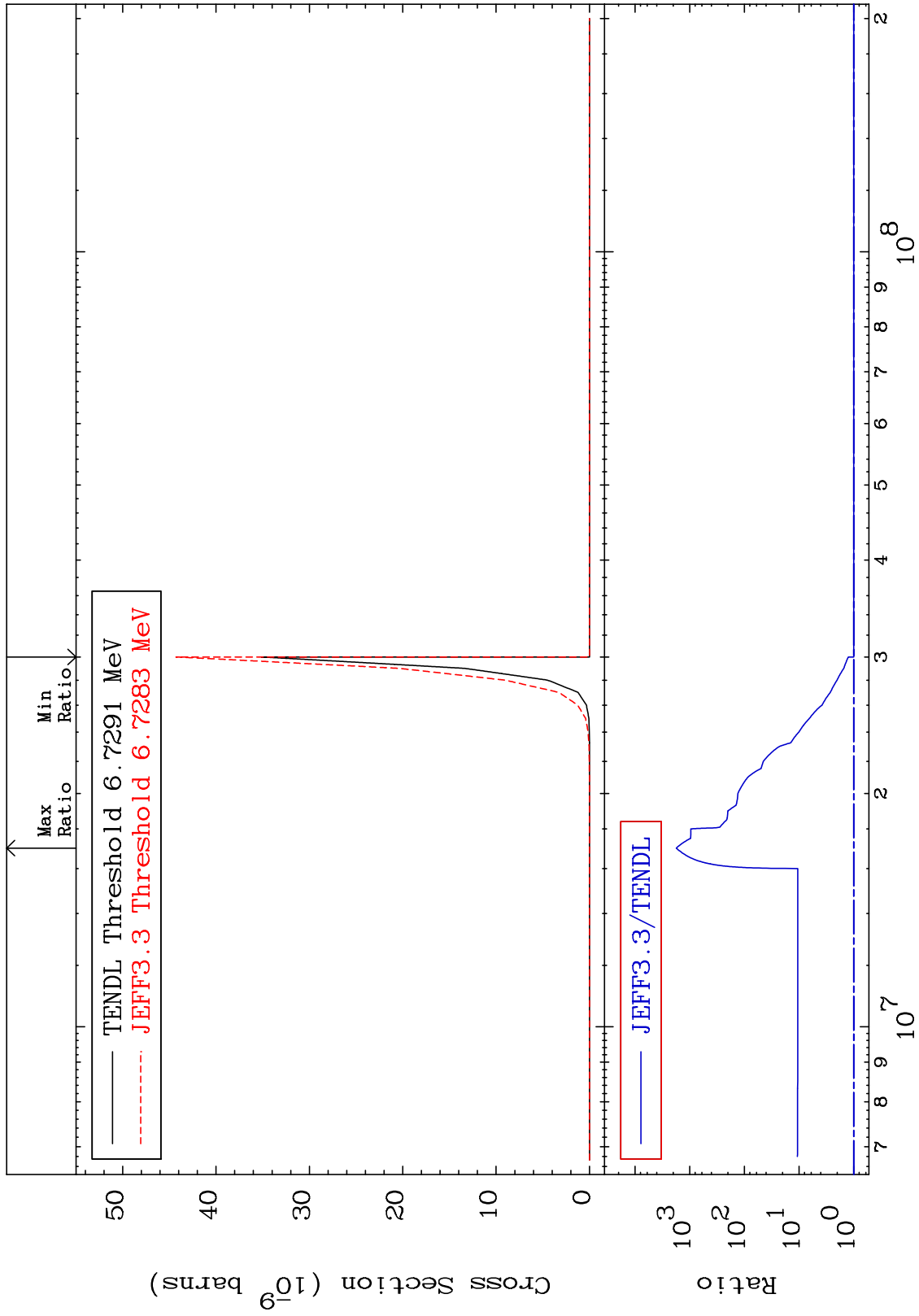
-99.59 To 94.96 %



MAT 7037

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

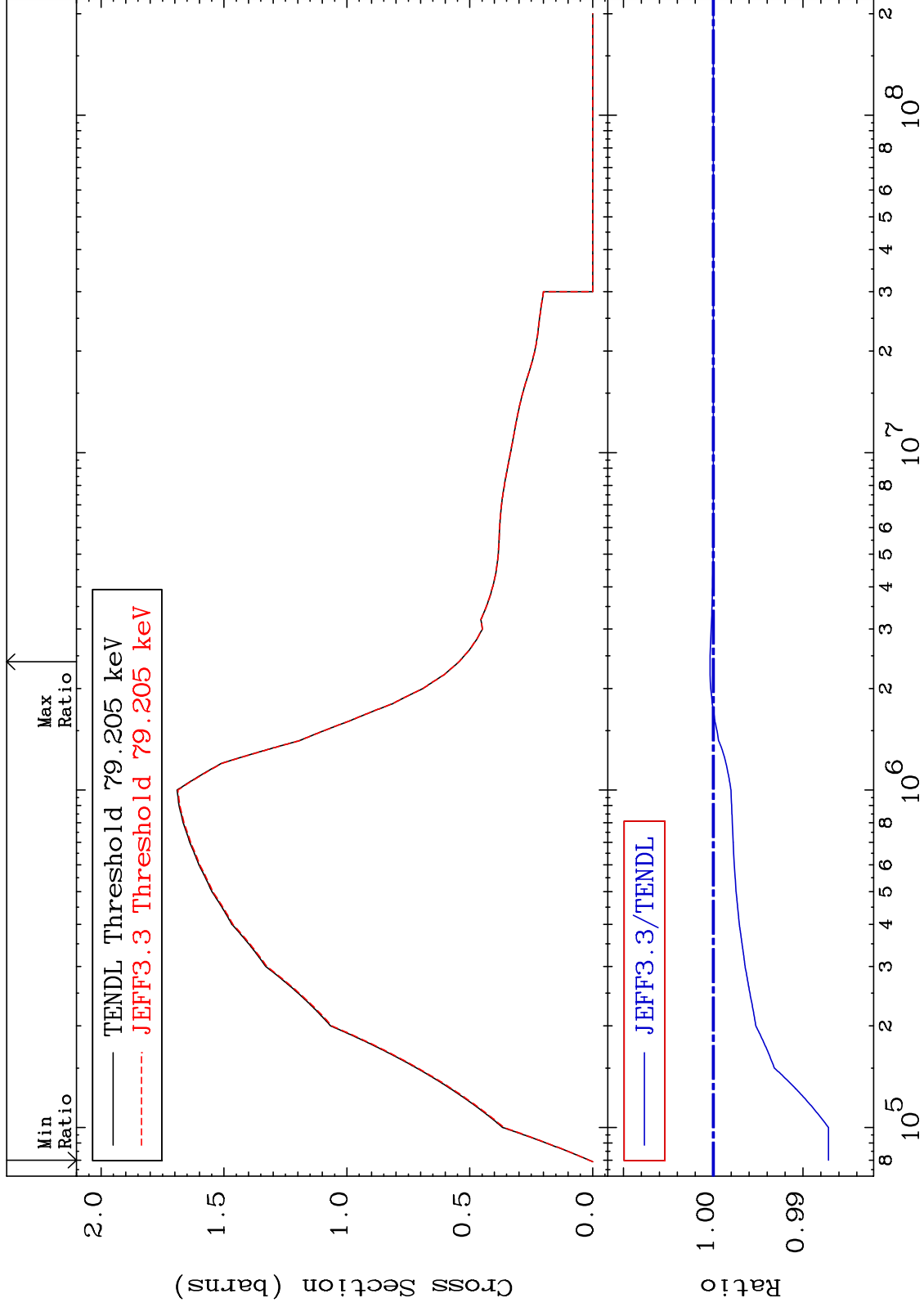
70-Yb-172  
To 9999. %  
0.000



MAT 7037

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

70-Yb-172  
-1.284 To 0.037 %



70-Yb-172

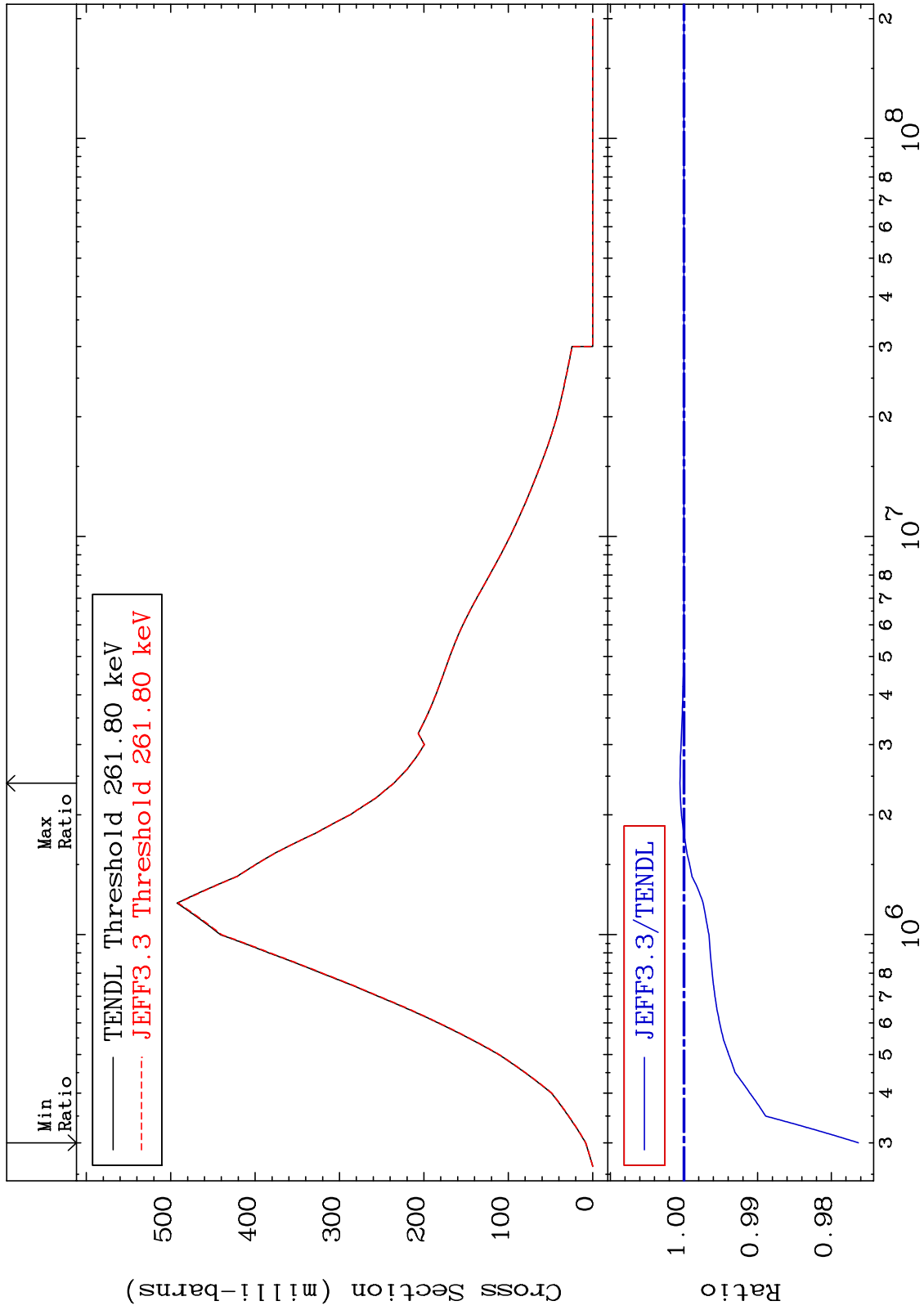
Incident Energy (eV)

20

MAT 7037

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

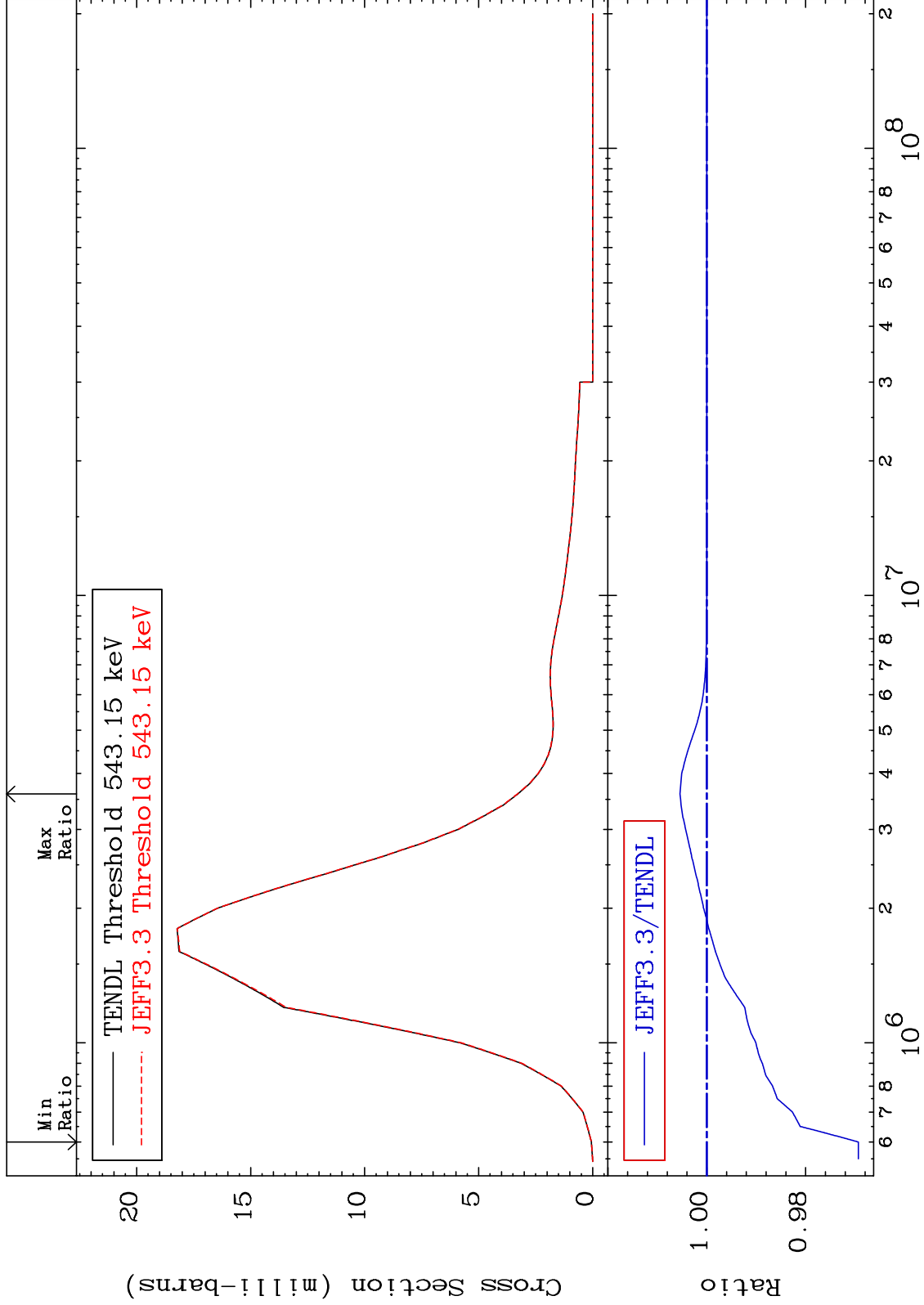
70-Yb-172  
-2.369 To 0.053 %



MAT 7037

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

70-Yb-172  
-3.066 To 0.541 %



22

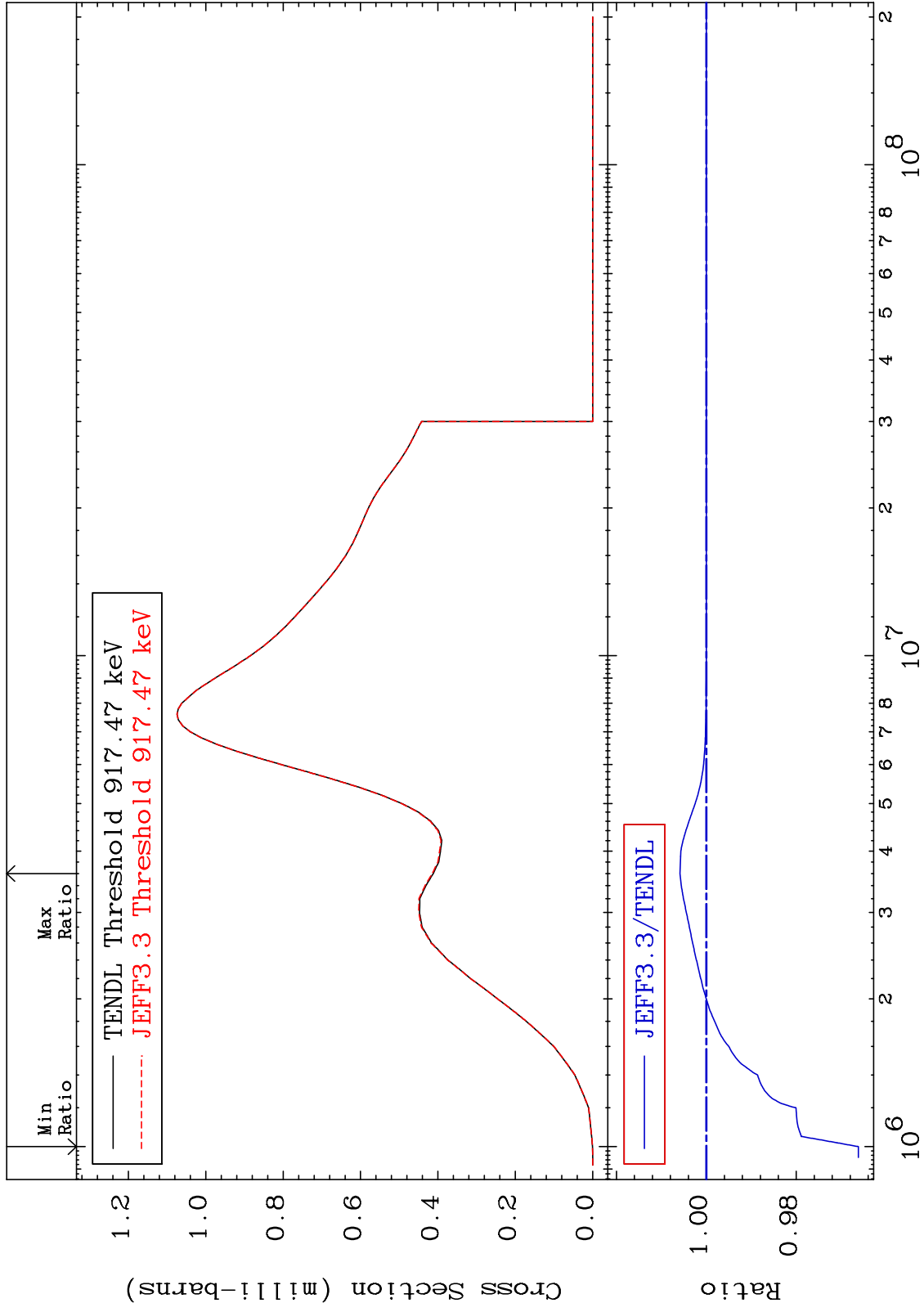
Incident Energy (eV)

70-Yb-172

MAT 7037

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

70-Yb-172  
-3.381 To 0.586 %

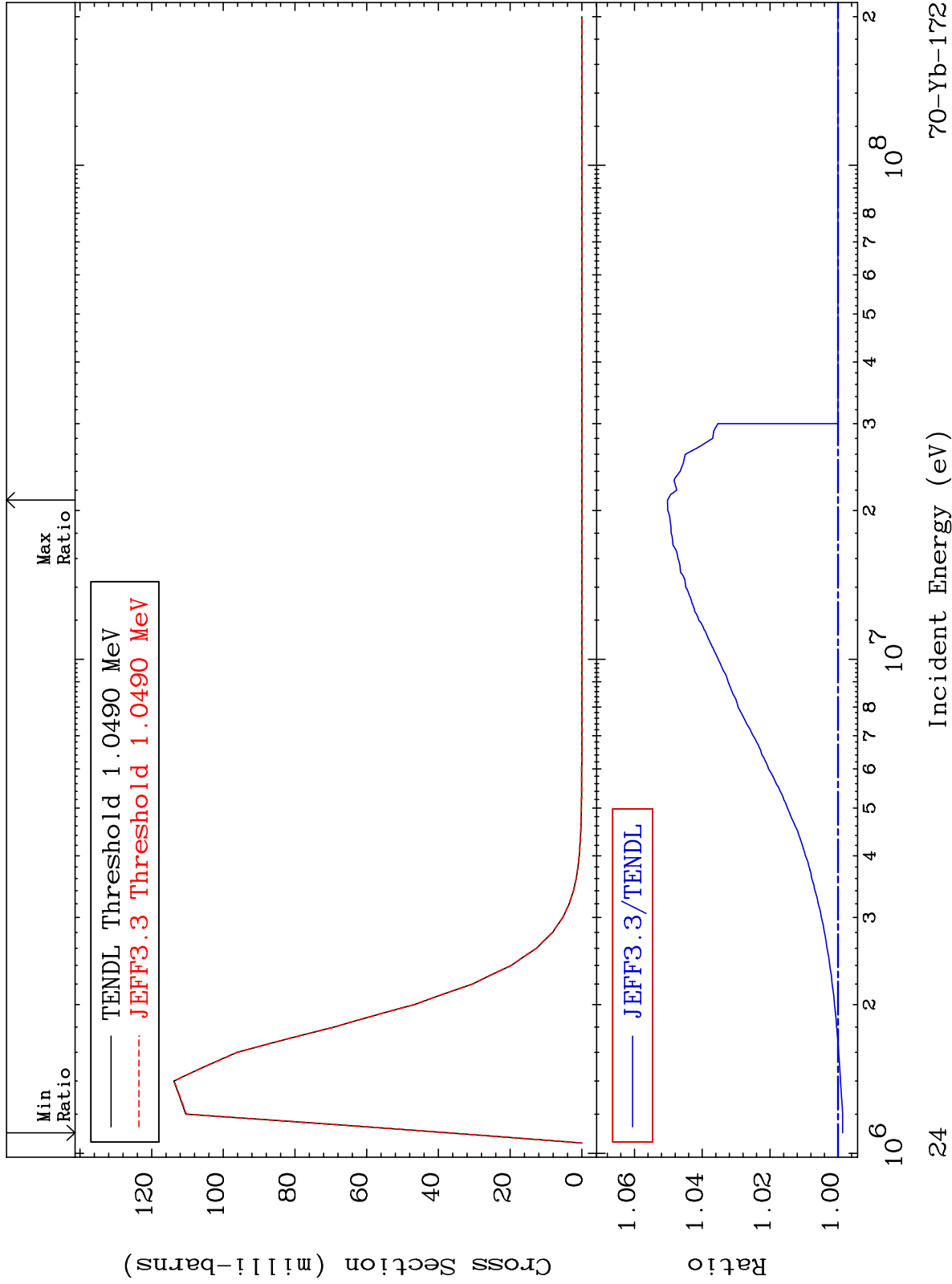




MAT 7037

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

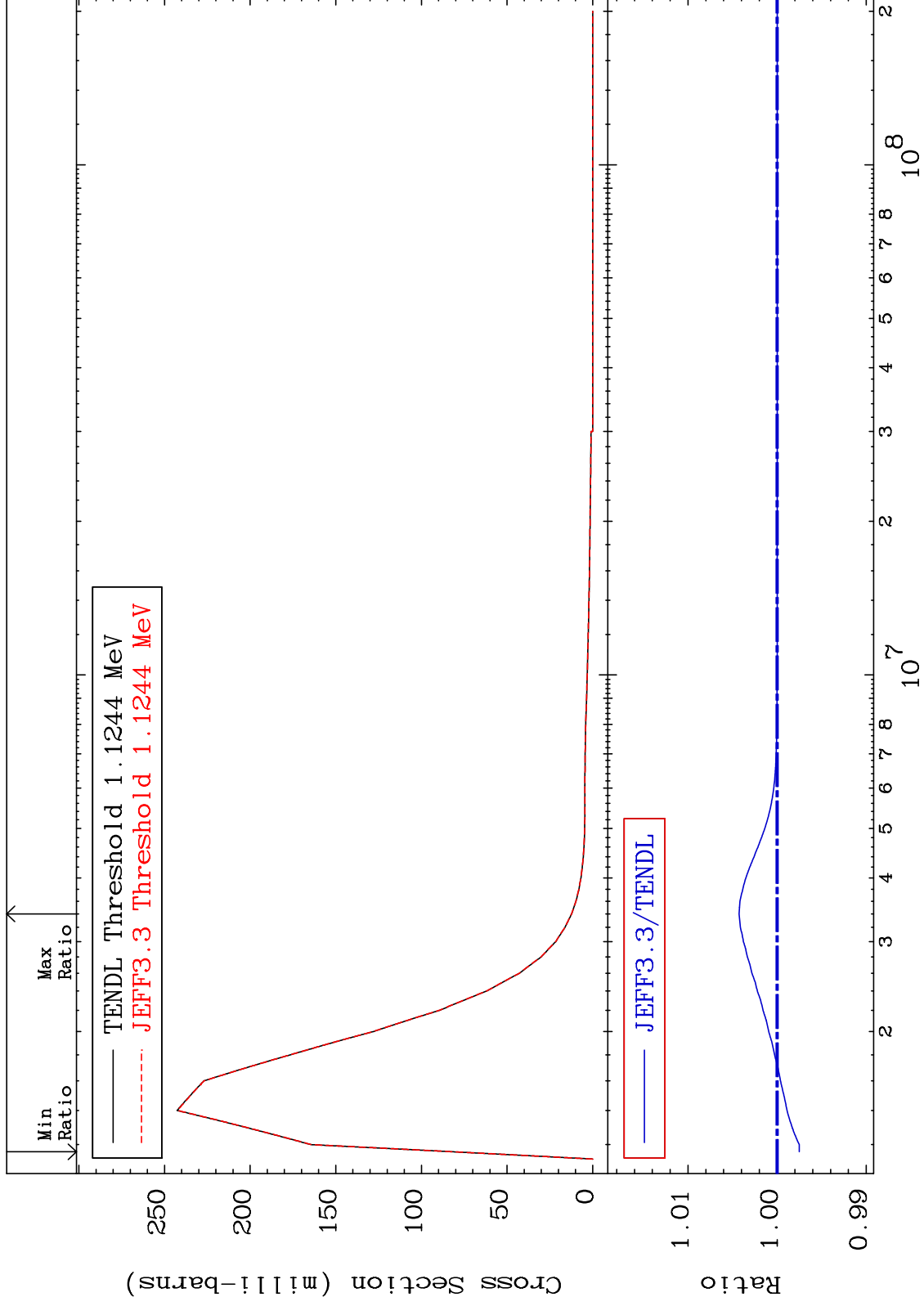
70-Yb-172  
-0.138 To 5.023 %



MAT 7037

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

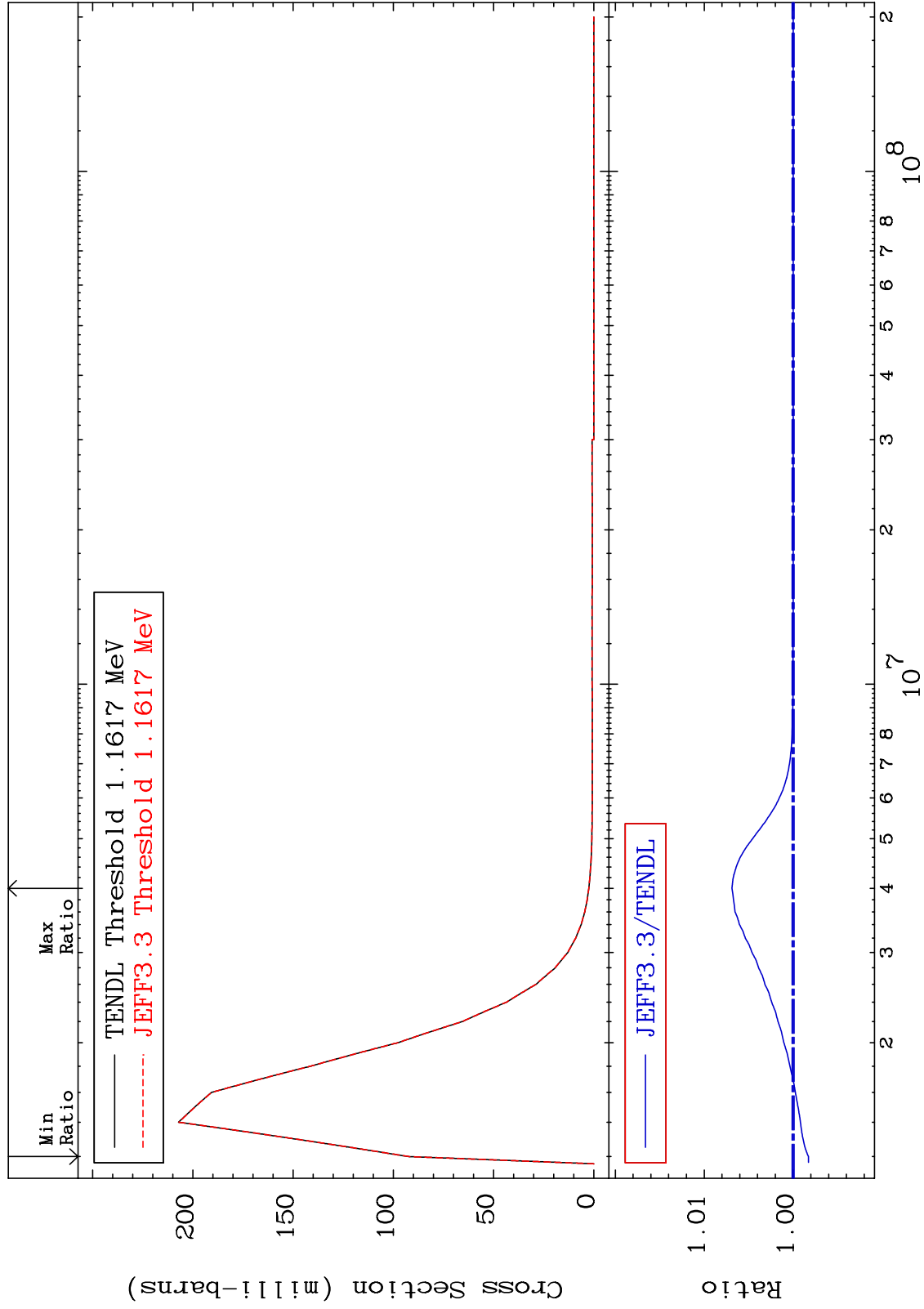
70-Yb-172  
-0.249 To 0.426 %



MAT 7037

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

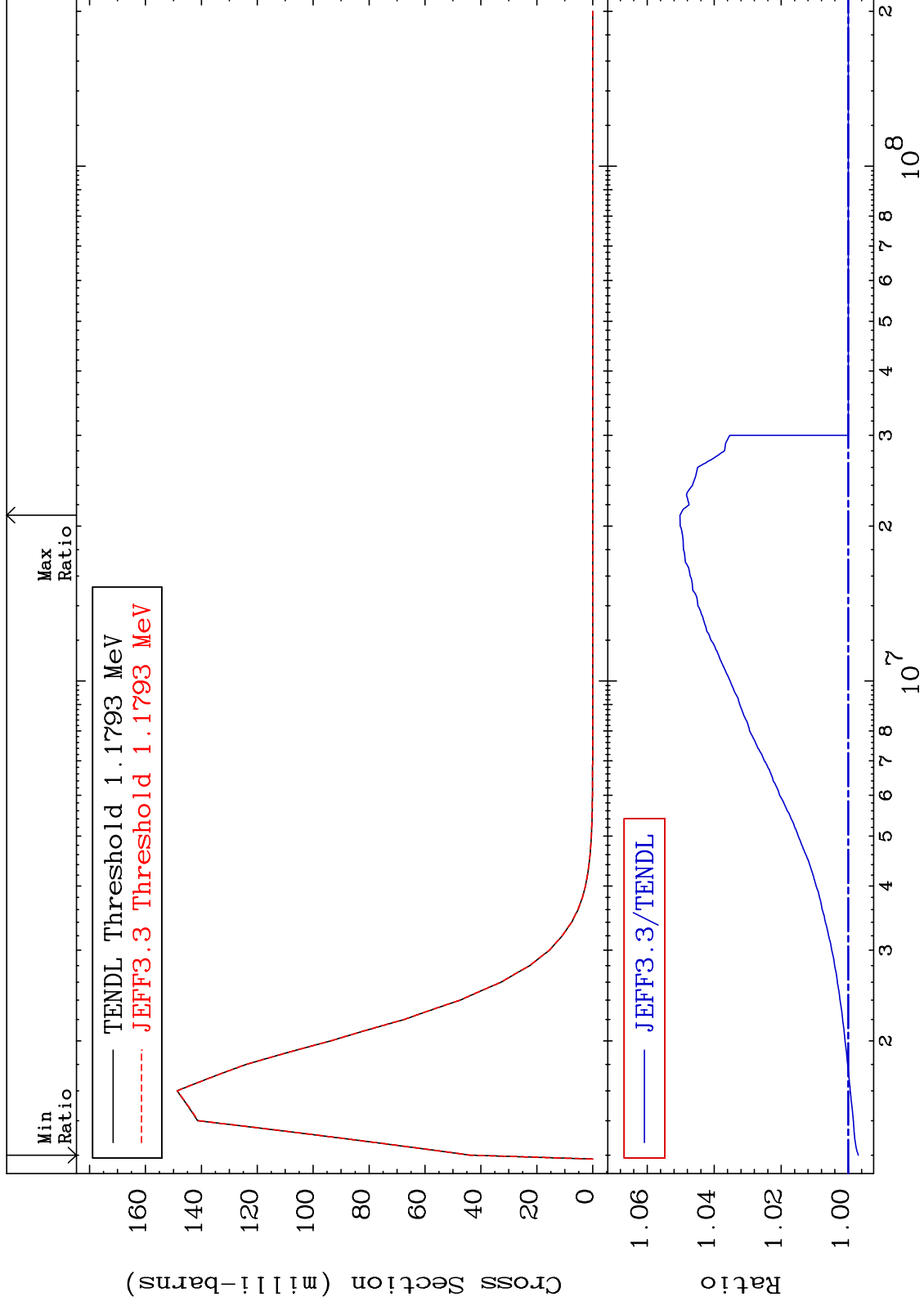
70-Yb-172  
-0.173 To 0.689 %



MAT 7037

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

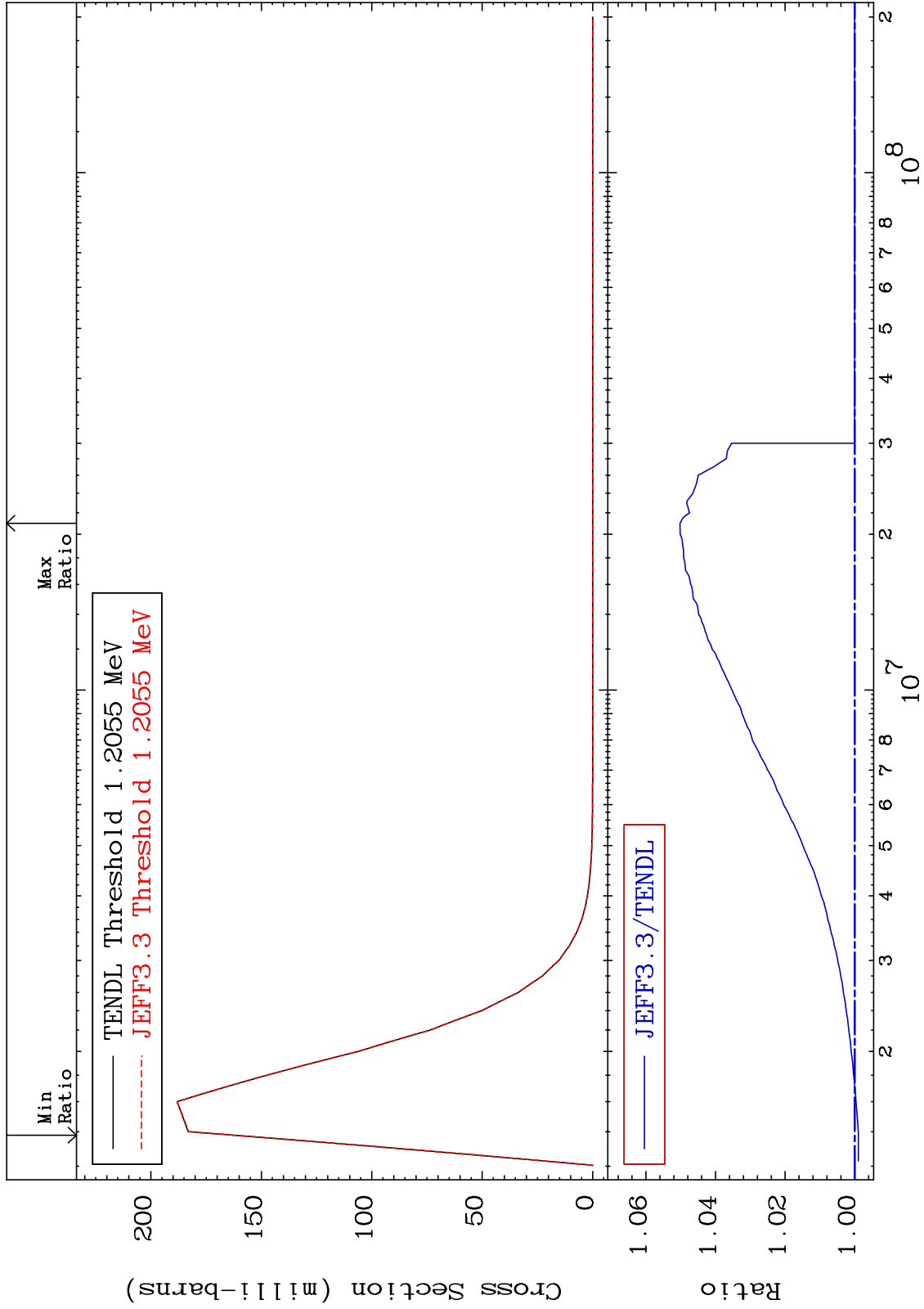
70-Yb-172  
-0.304 To 5.020 %



MAT 7037

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

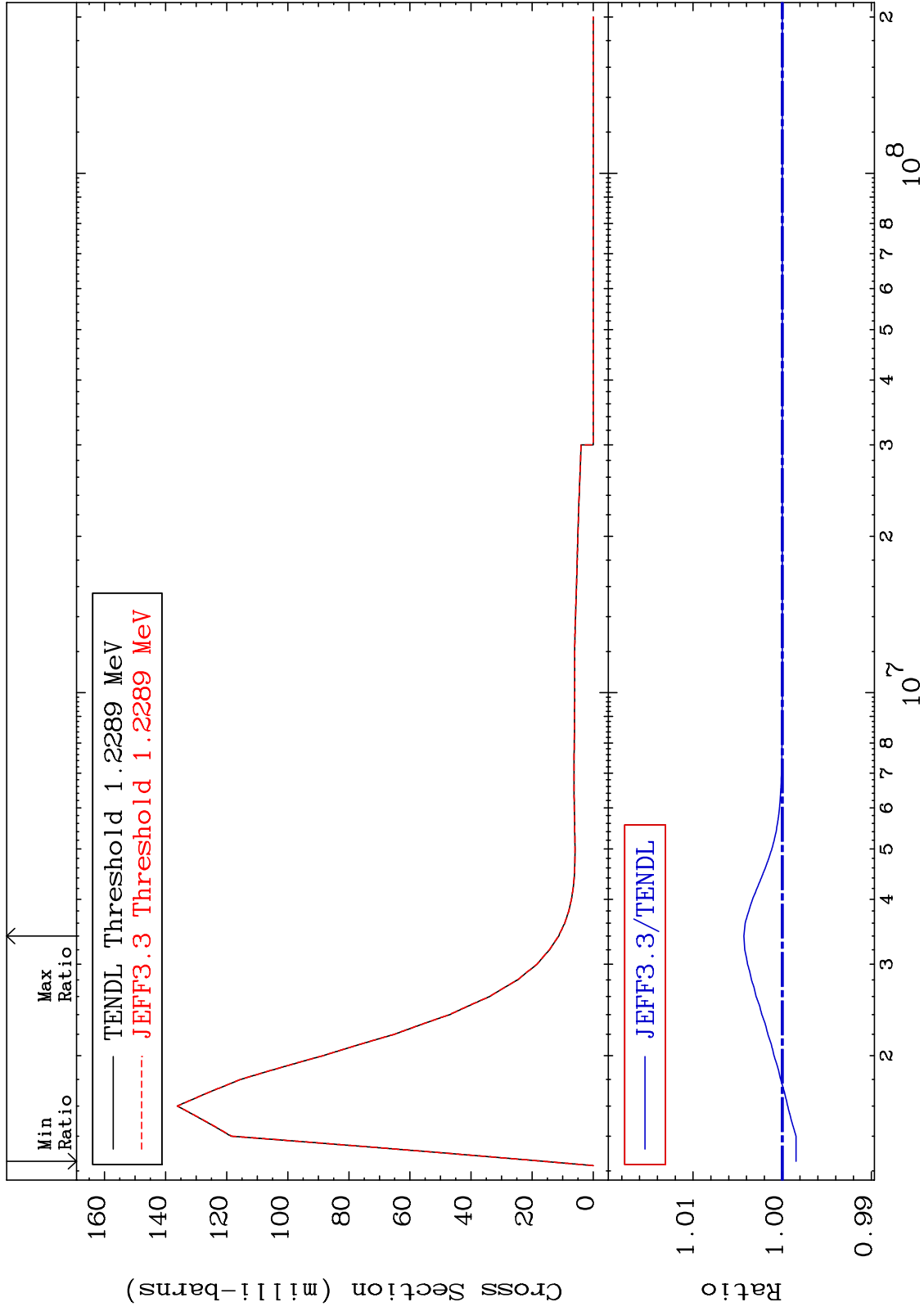
70-Yb-172  
-0.106 To 5.022 %



MAT 7037

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

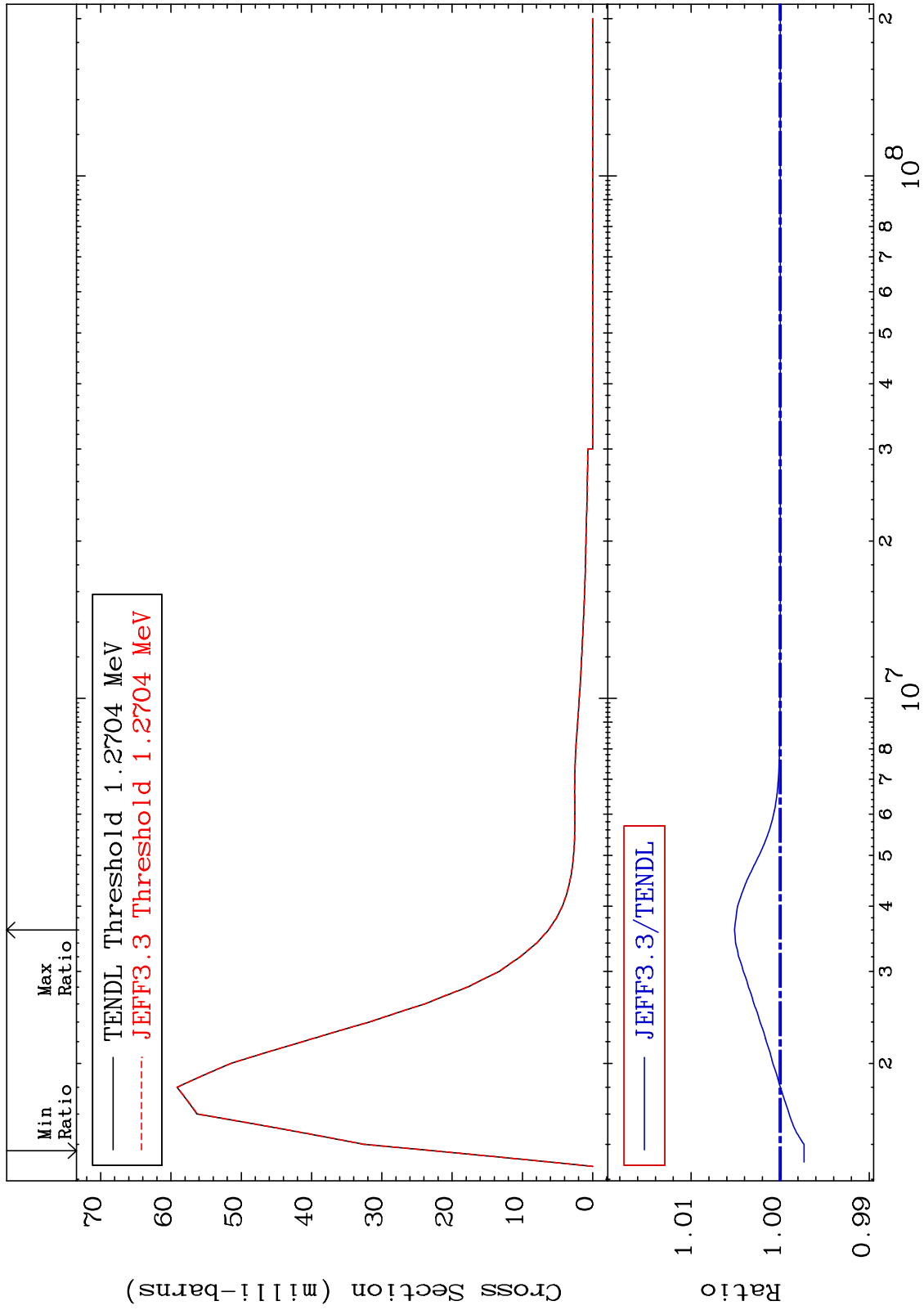
70-Yb-172  
-0.154 To 0.430 %



MAT 7037

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

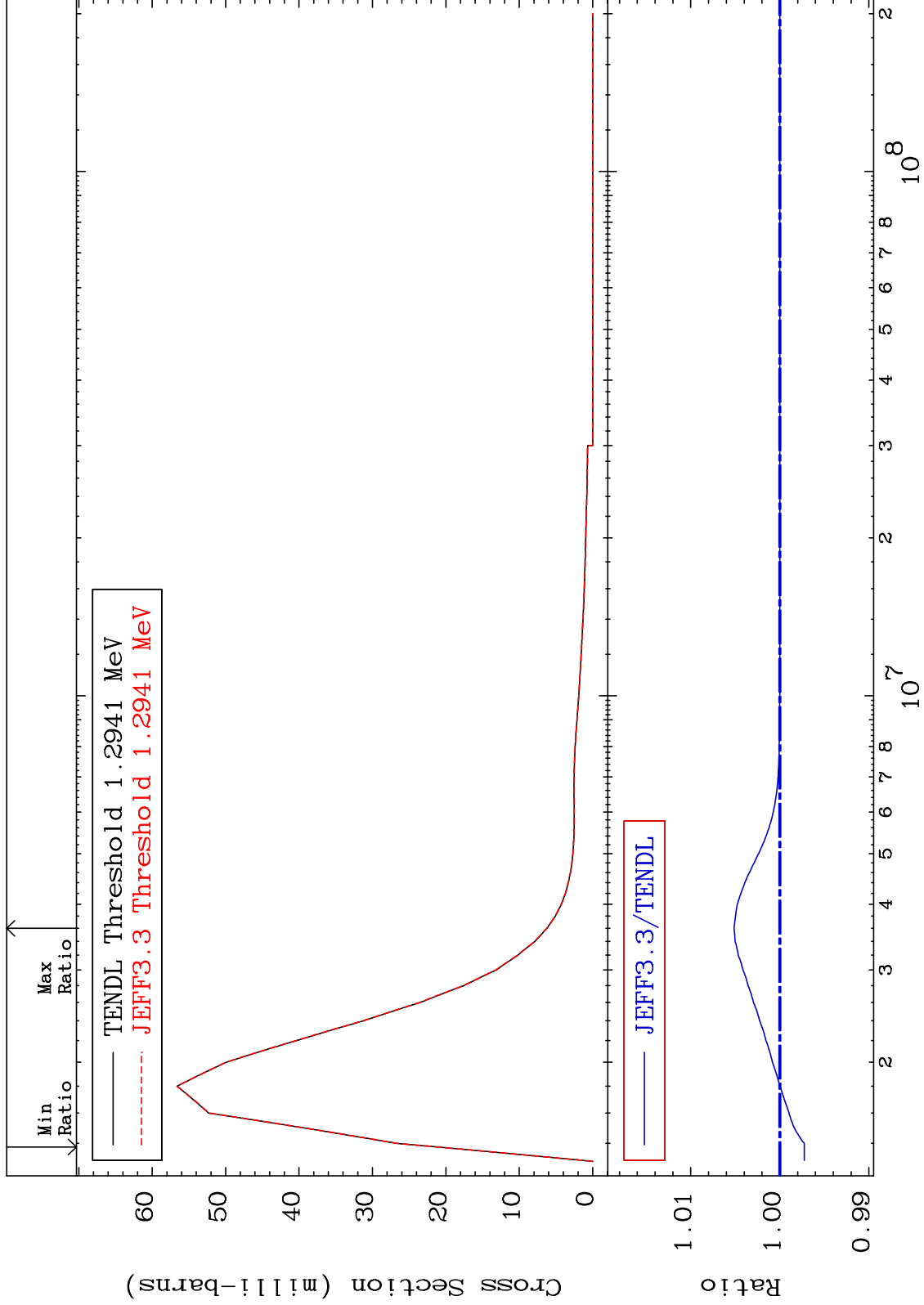
70-Yb-172  
-0.267 To 0.514 %



MAT 7037

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

70-Yb-172  
-0.276 To 0.514 %

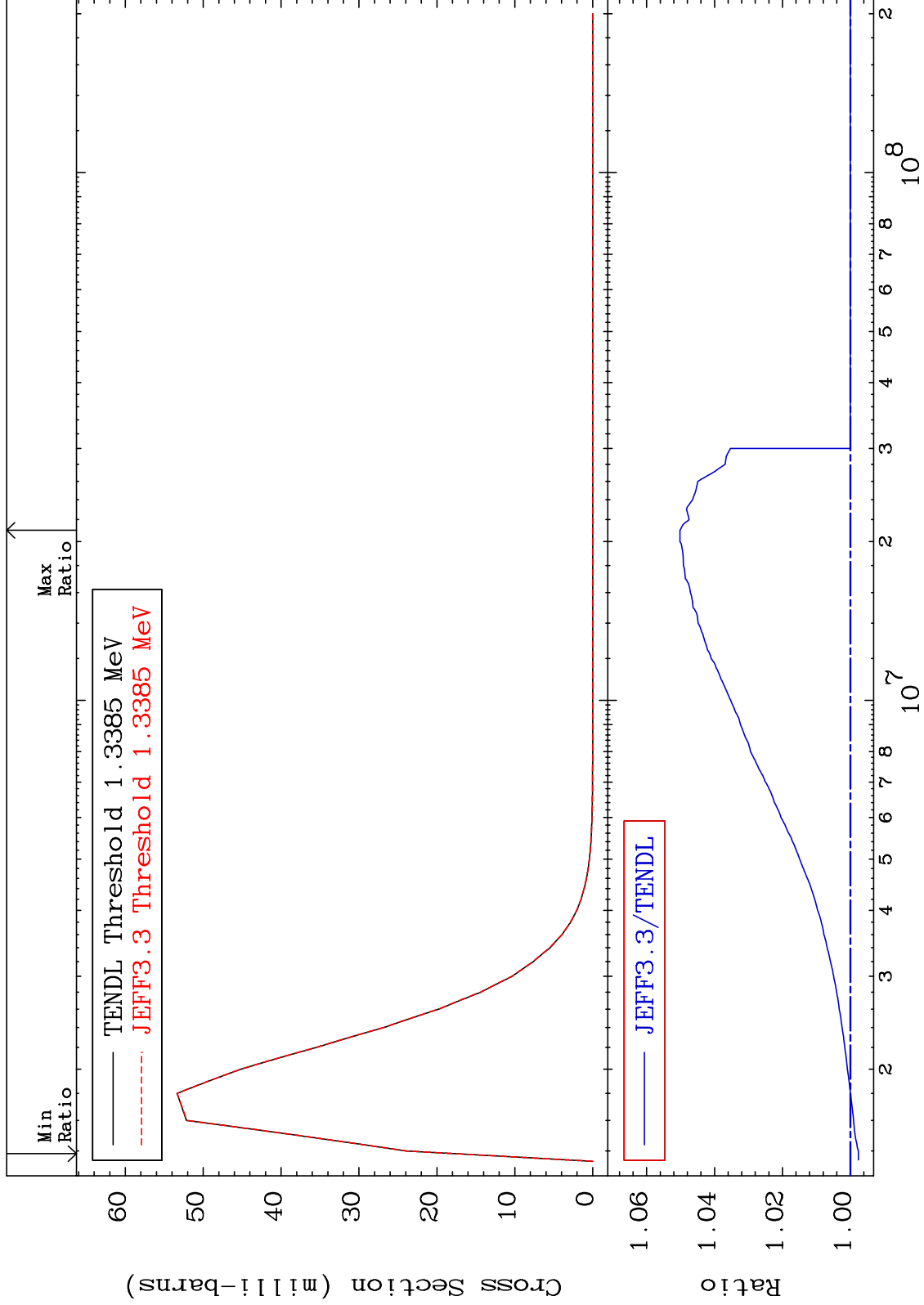




MAT 7037

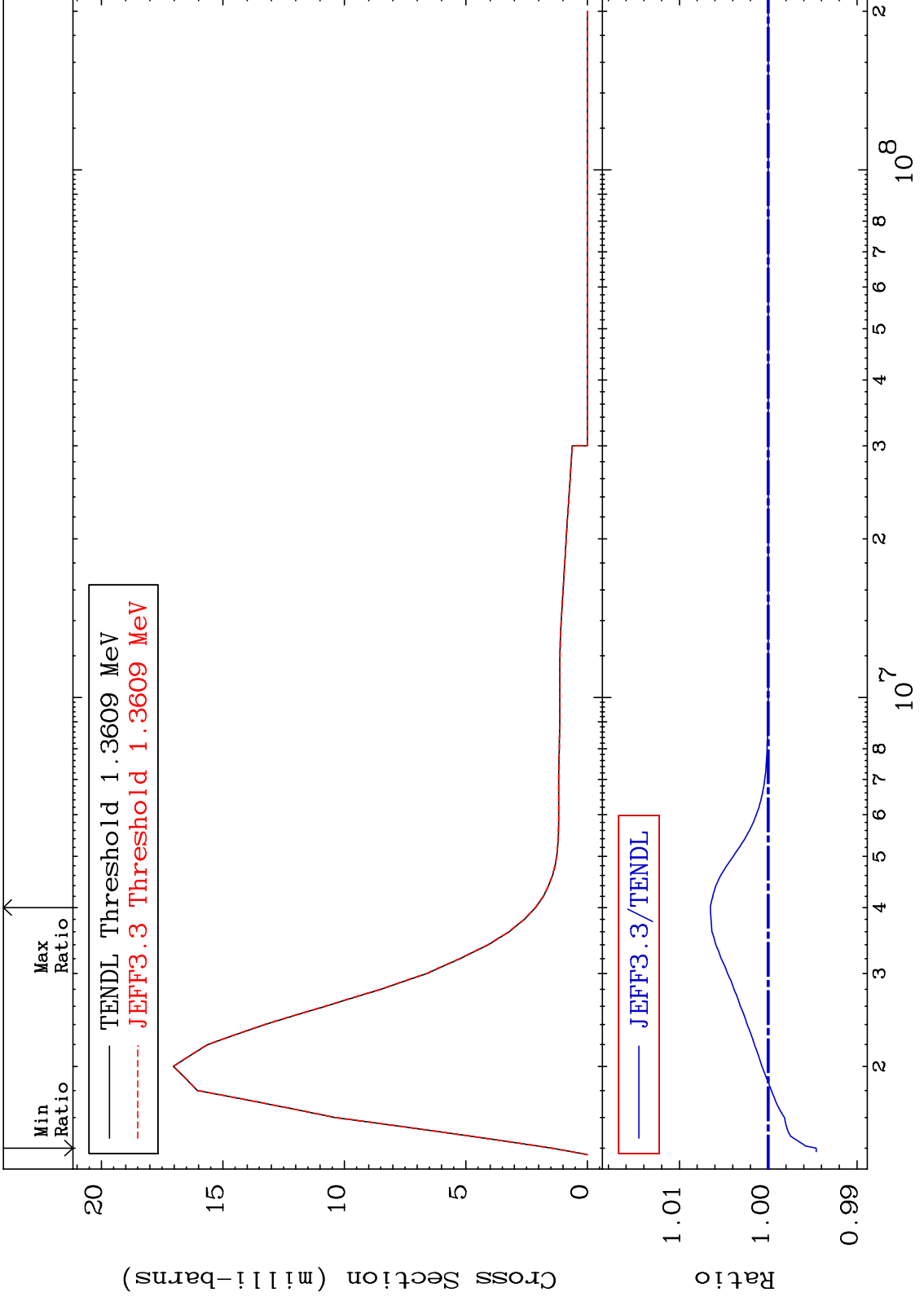
MT= 63 (n, n') Level  
Cross Section

70-Yb-172  
-0.238 To 5.018 %



MAT 7037 MT= 64 (n,n') Level  
Cross Section -0.540 To 0.653 %

MAT 7037

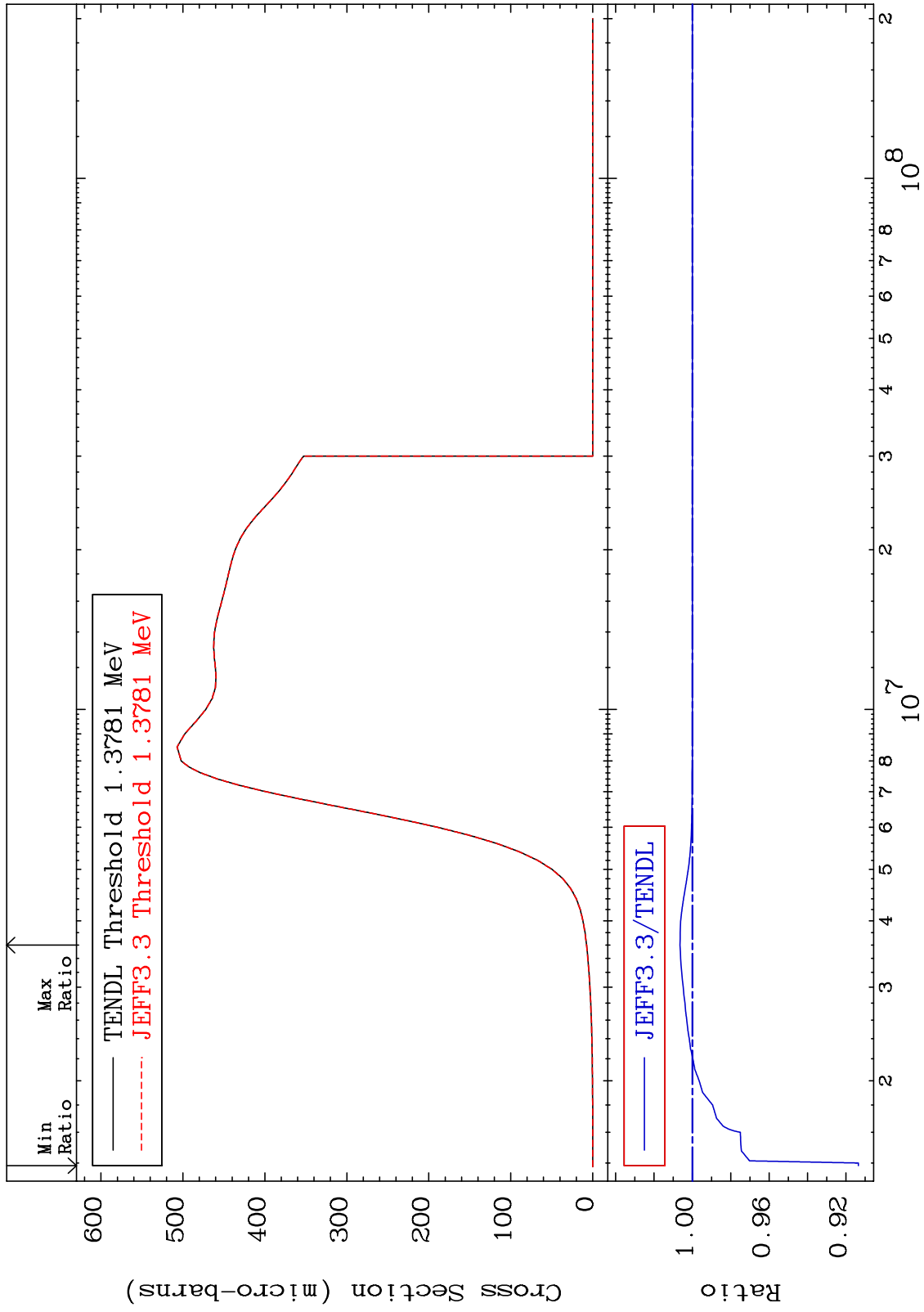


70-Yb-172

MAT 7037

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

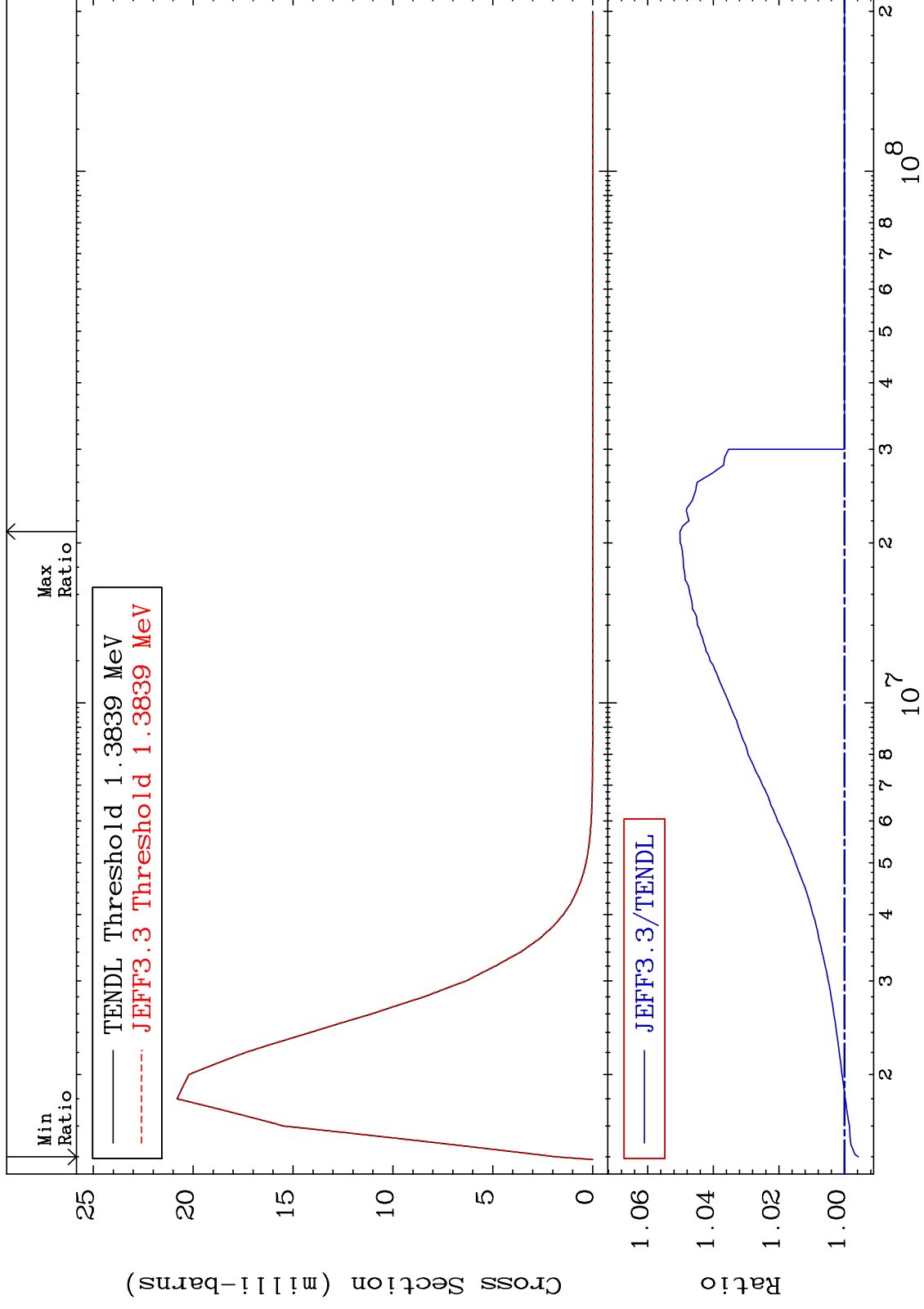
70-Yb-172  
-8.647 To 0.643 %



MAT 7037

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

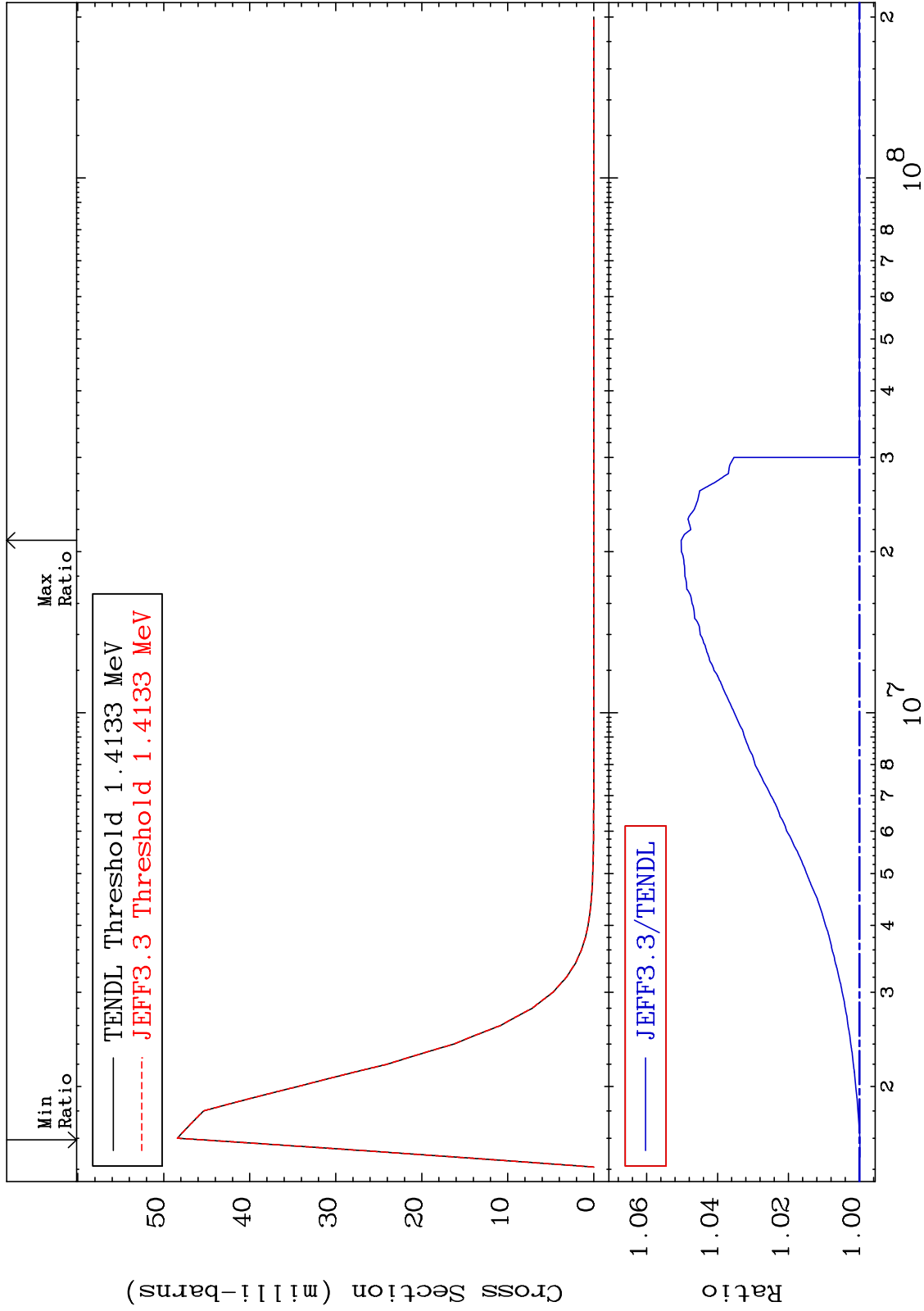
70-Yb-172  
-0.425 To 5.015 %



MAT 7037

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

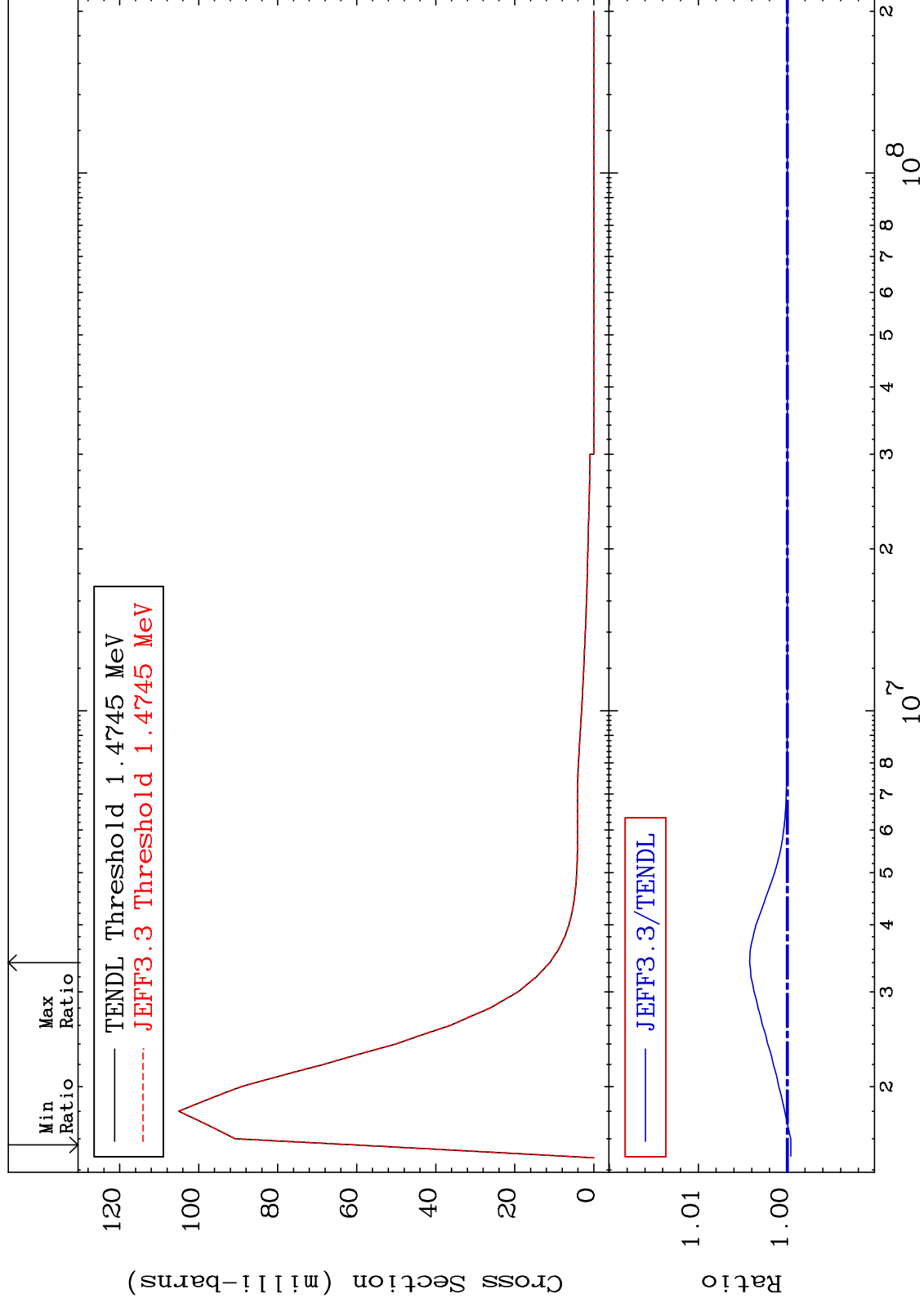
70-Yb-172  
-0.014 To 5.024 %



MAT 7037

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

70-Yb-172  
-0.039 To 0.423 %



37

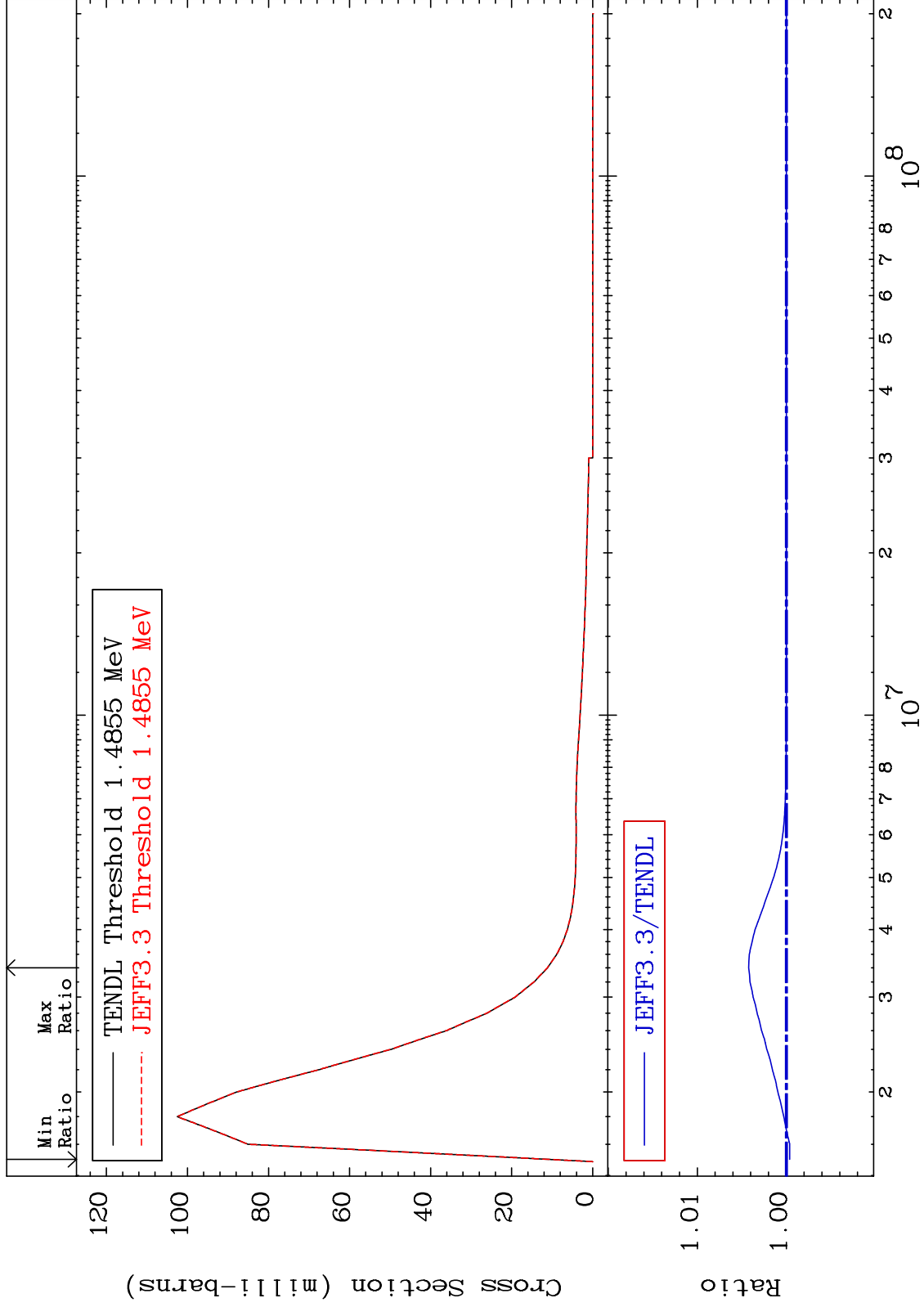
Incident Energy (eV)

70-Yb-172

MAT 7037

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

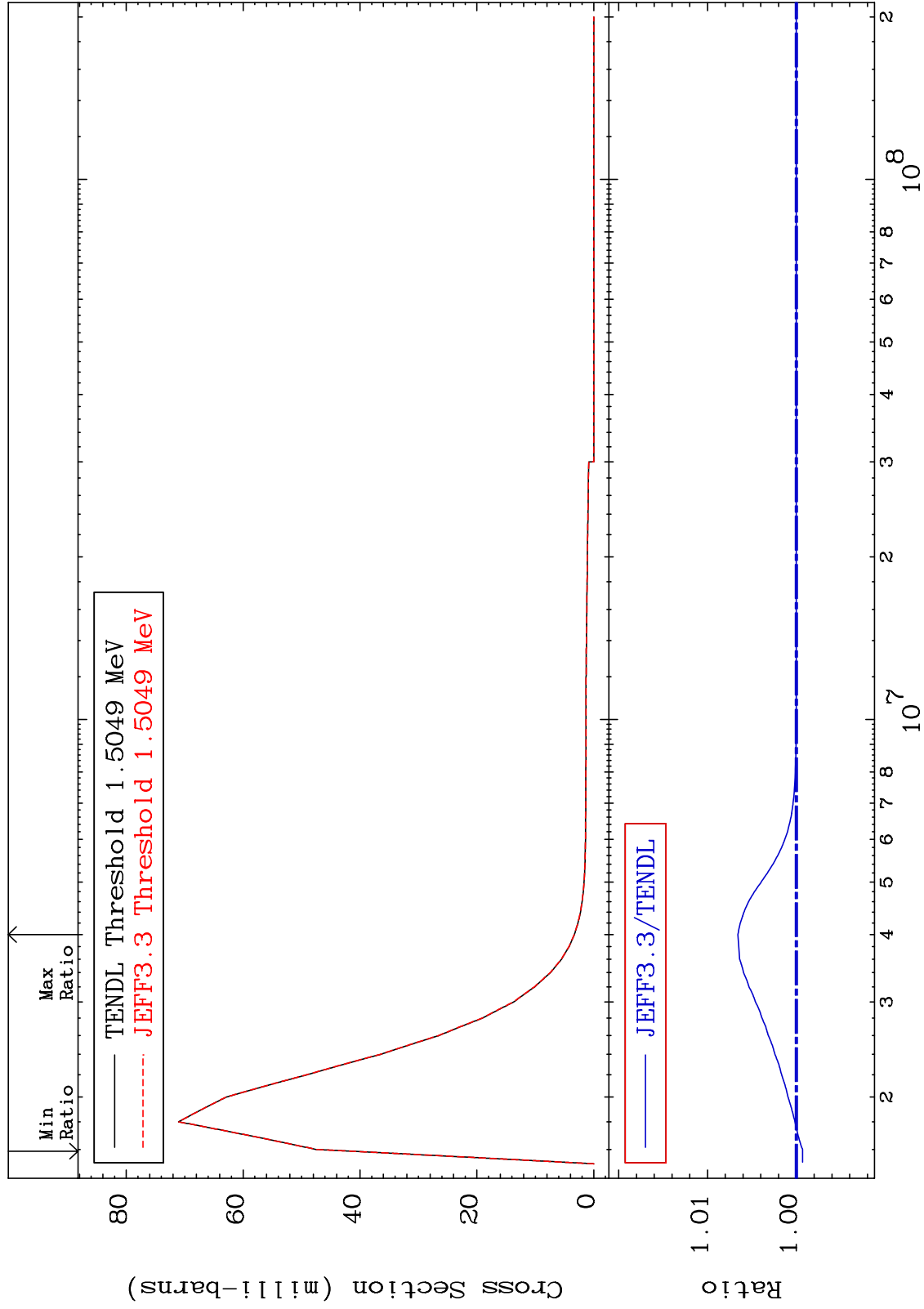
70-Yb-172  
-0.038 To 0.423 %



MAT 7037

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

70-Yb-172  
-0.069 To 0.659 %

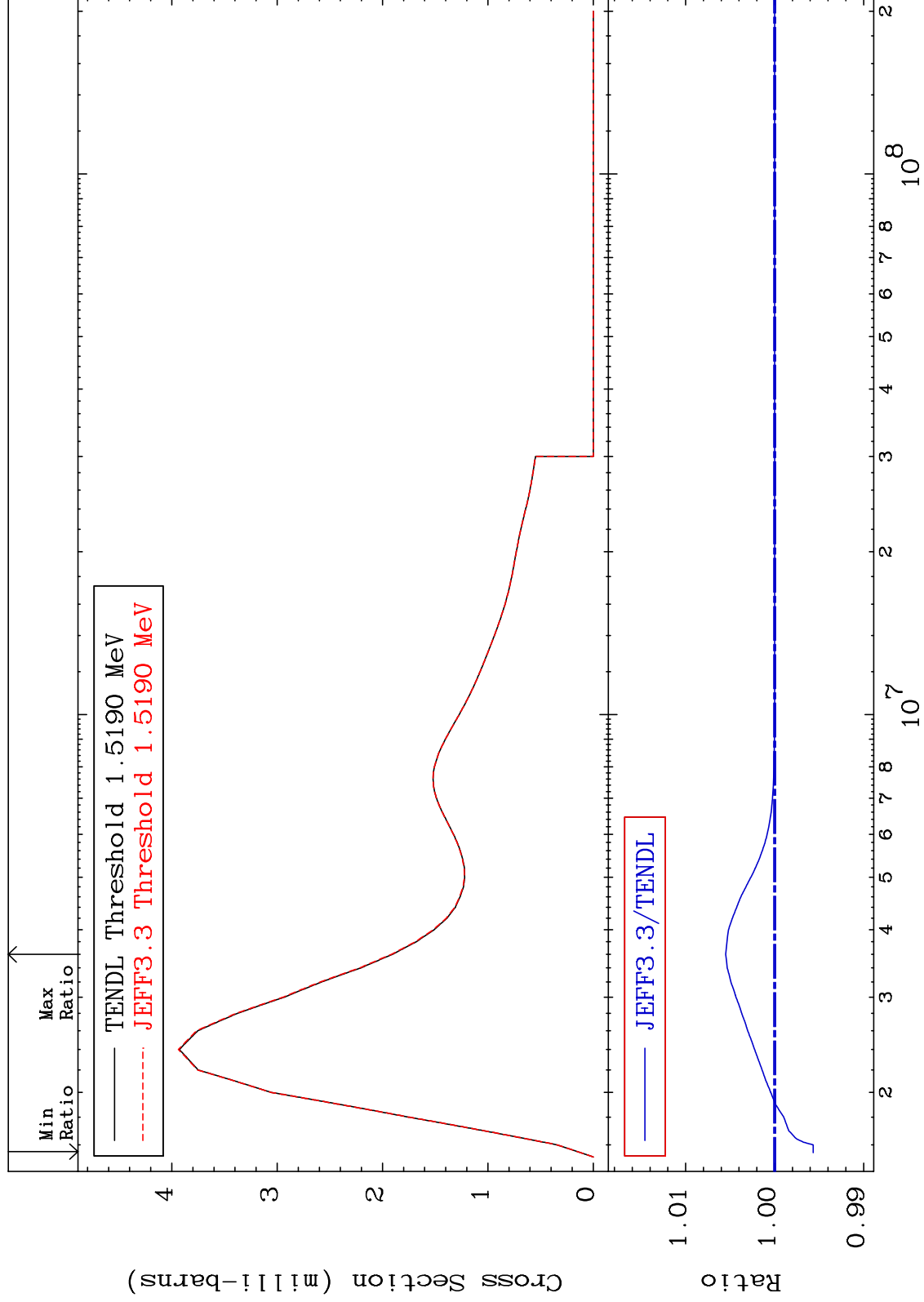




MAT 7037

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

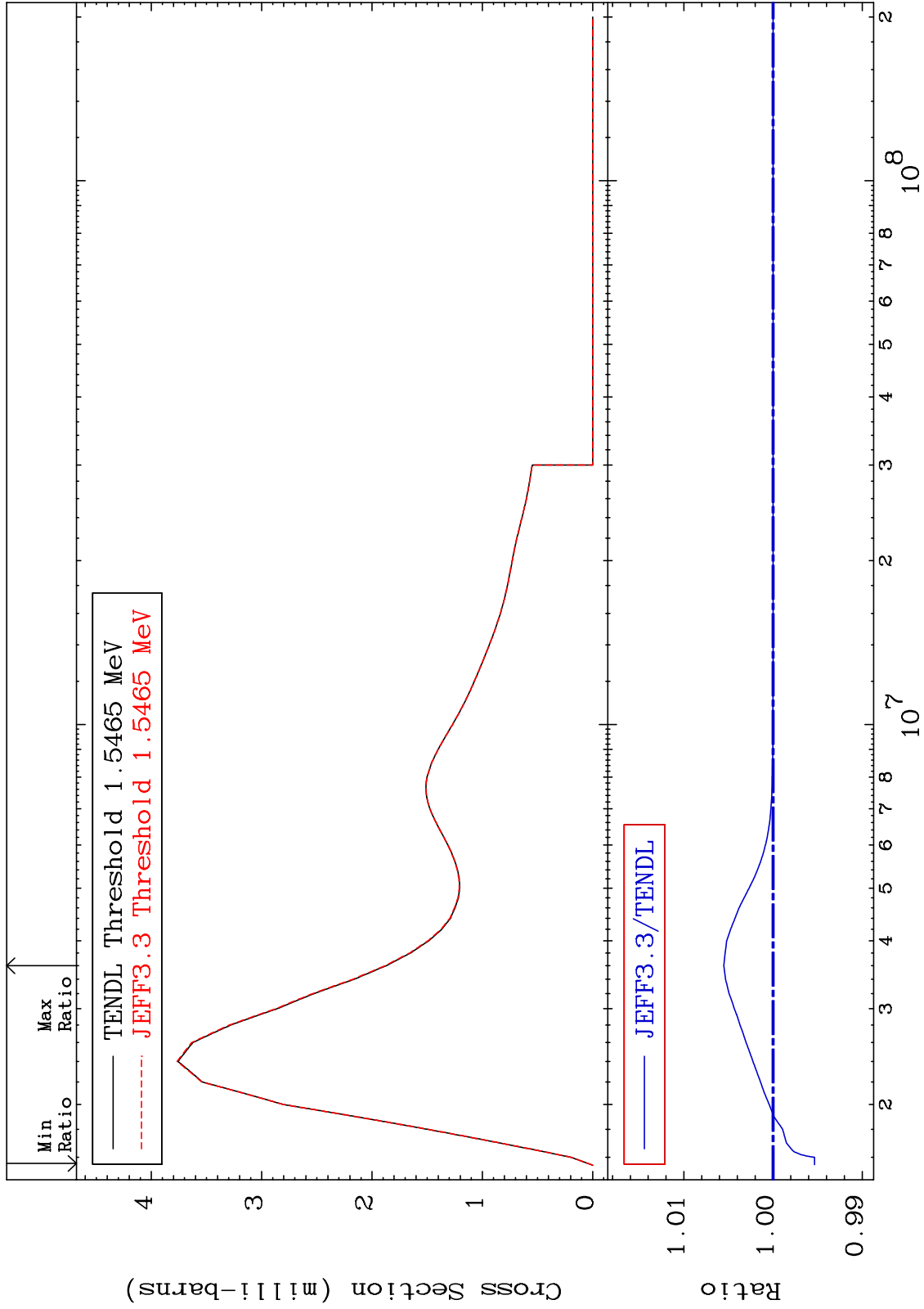
70-Yb-172  
-0.435 To 0.550 %



MAT 7037

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

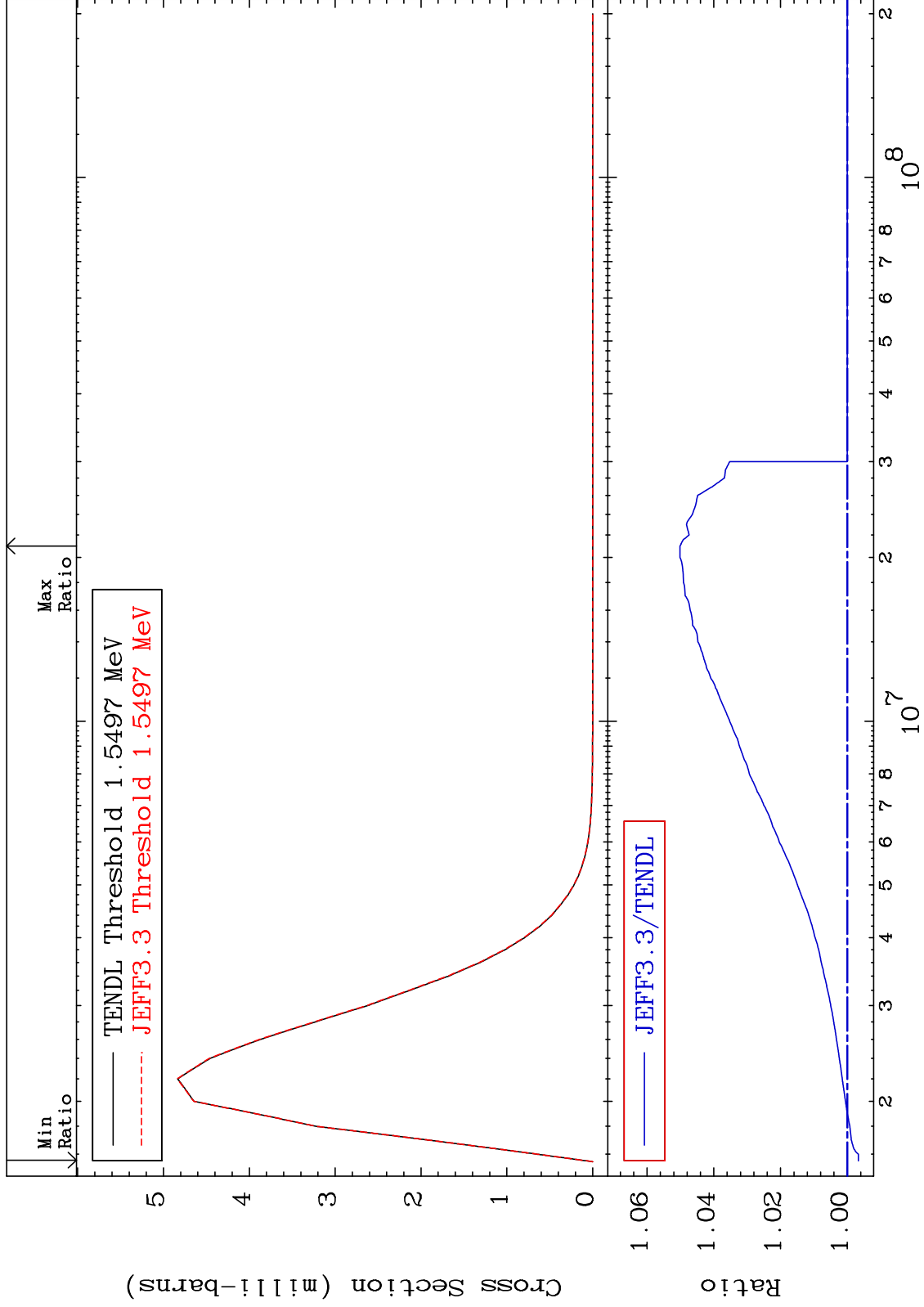
70-Yb-172  
-0.466 To 0.551 %



MAT 7037

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

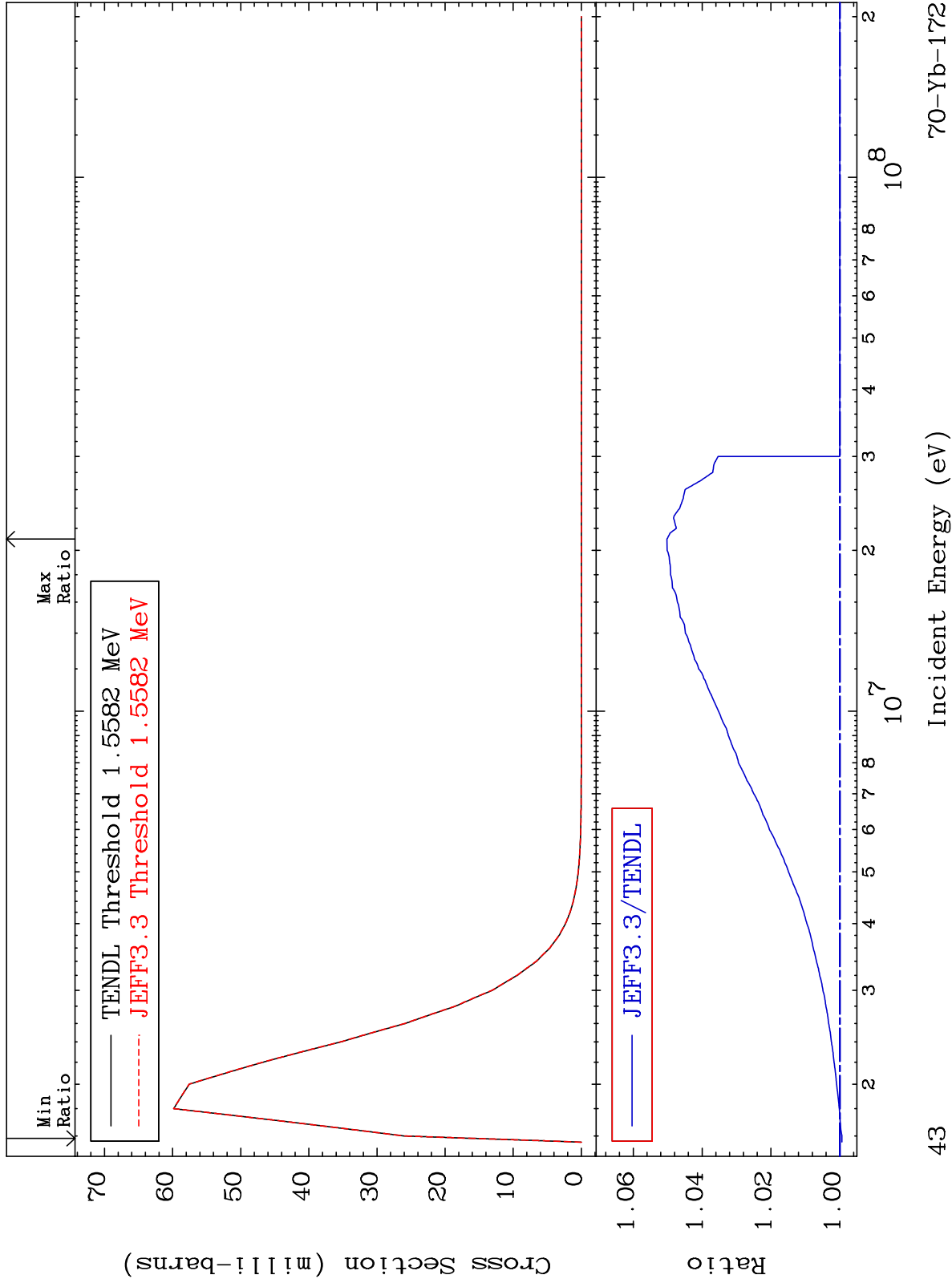
70-Yb-172  
-0.332 To 5.013 %



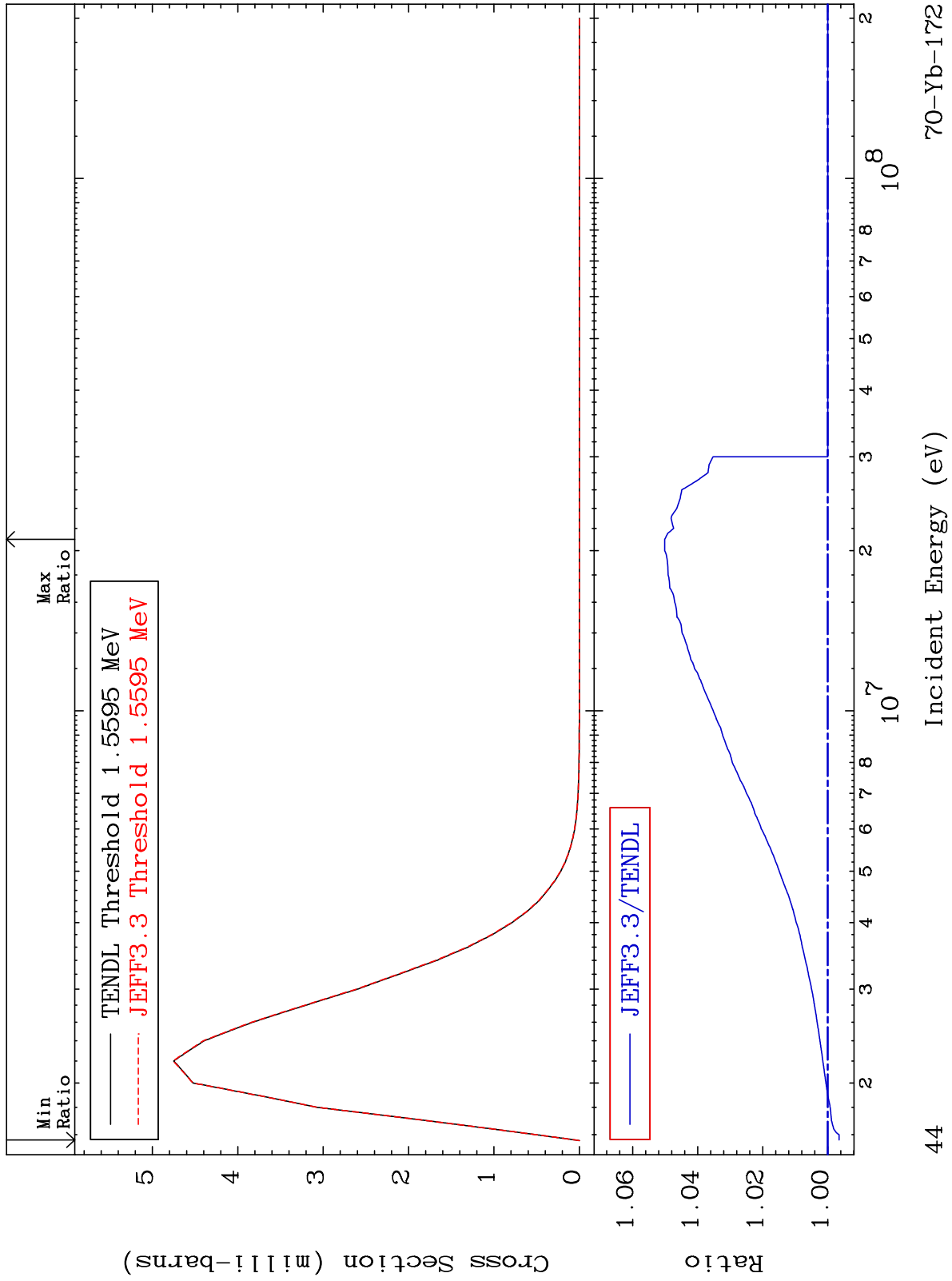
MAT 7037

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

70-Yb-172  
-0.061 To 5.020 %



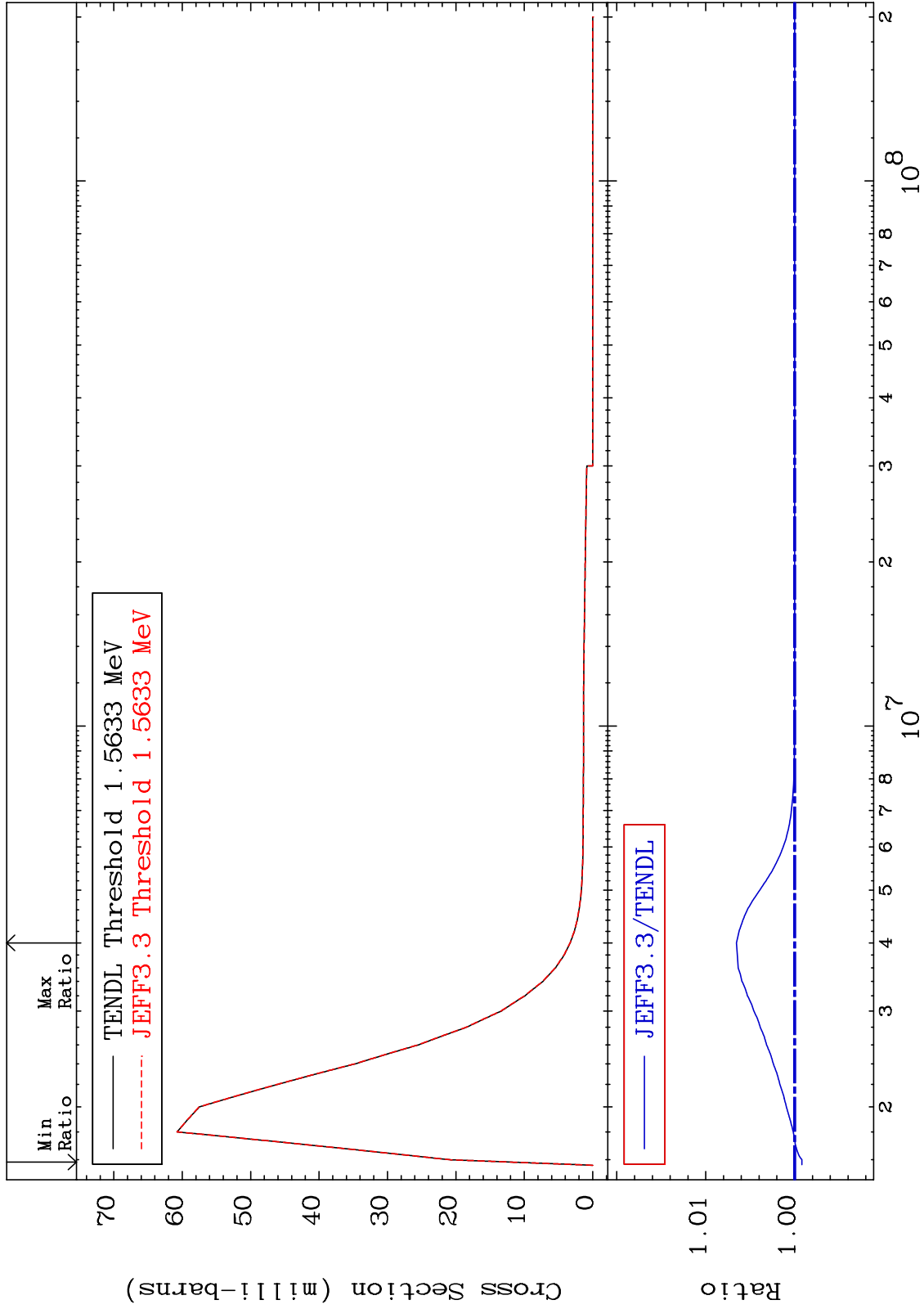
MAT 7037 MT= 75 (n,n') Level Cross Section -0.350 To 5.012 % 70-Yb-172



MAT 7037

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

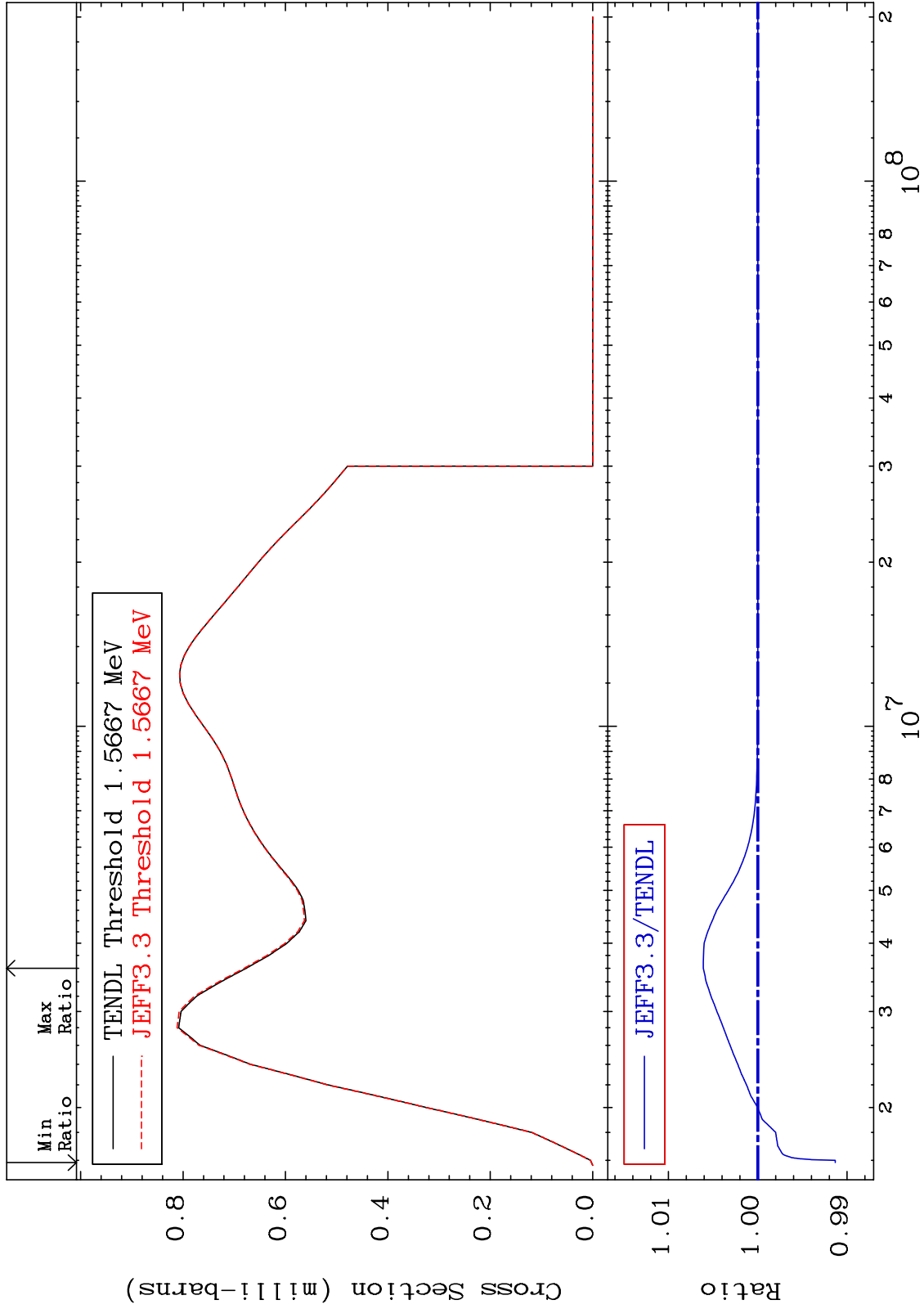
70-Yb-172  
-0.081 To 0.654 %



MAT 7037

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

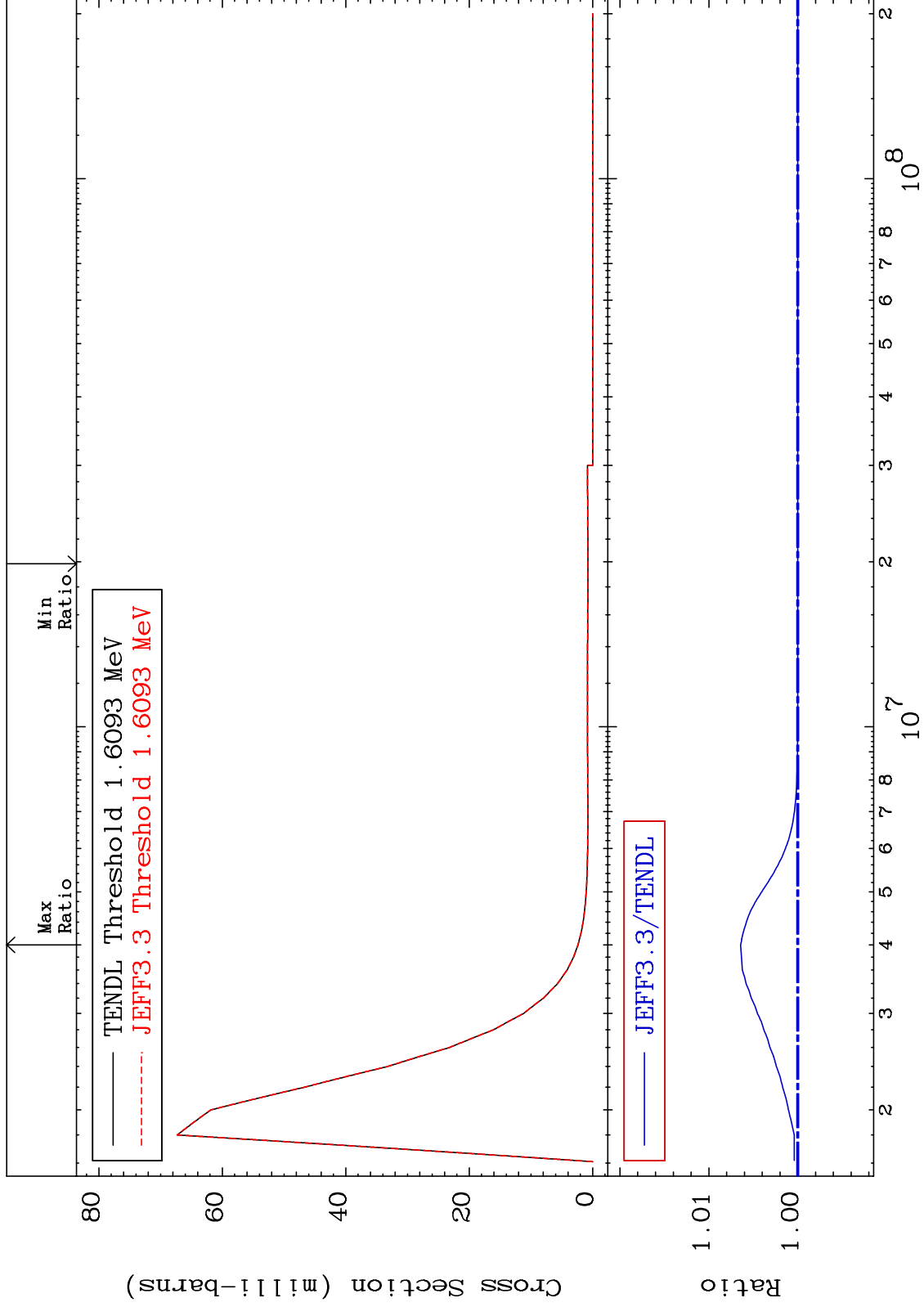
70-Yb-172  
-0.866 To 0.611 %



MAT 7037

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

70-Yb-172  
0.000 To 0.643 %

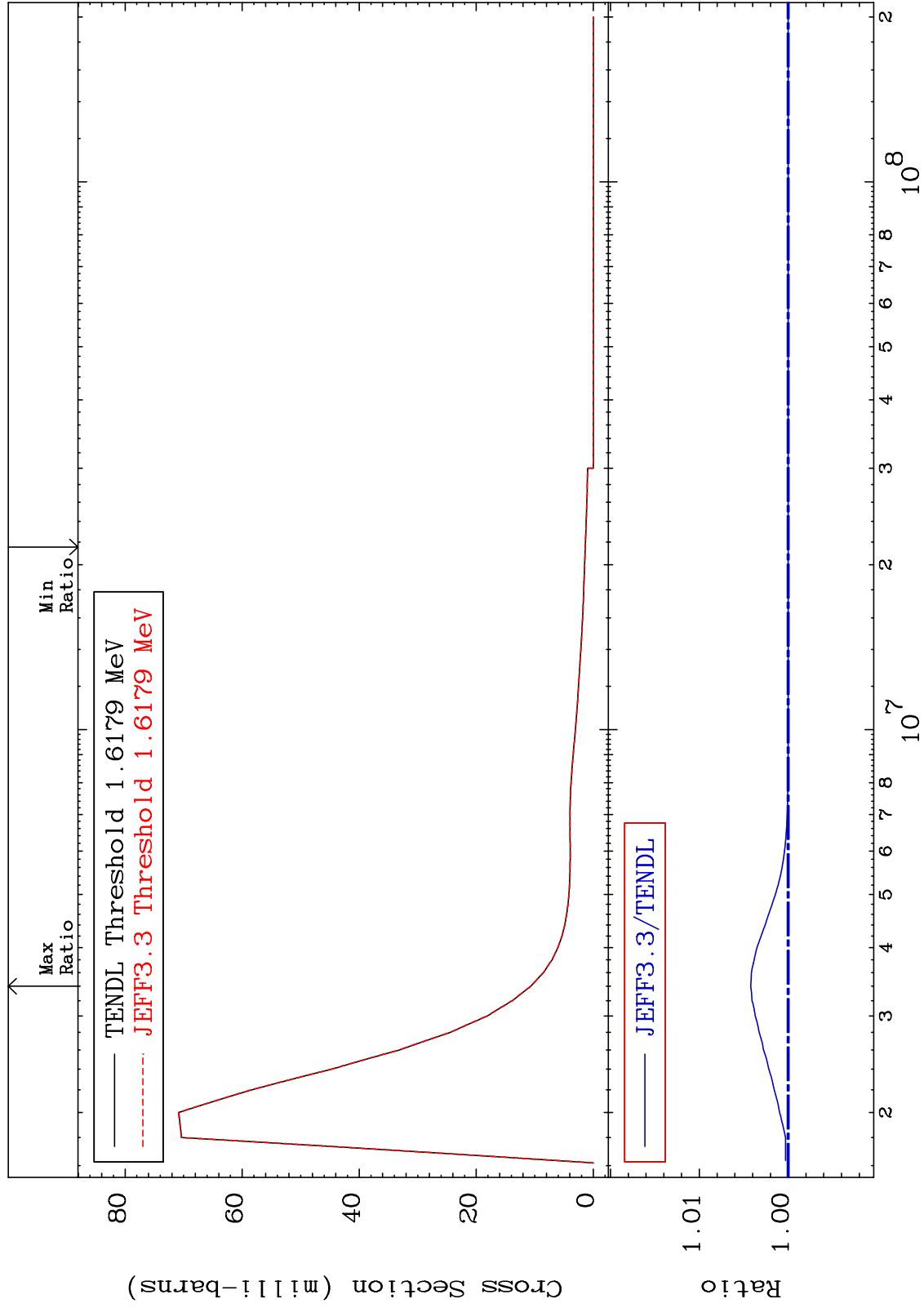




MAT 7037

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

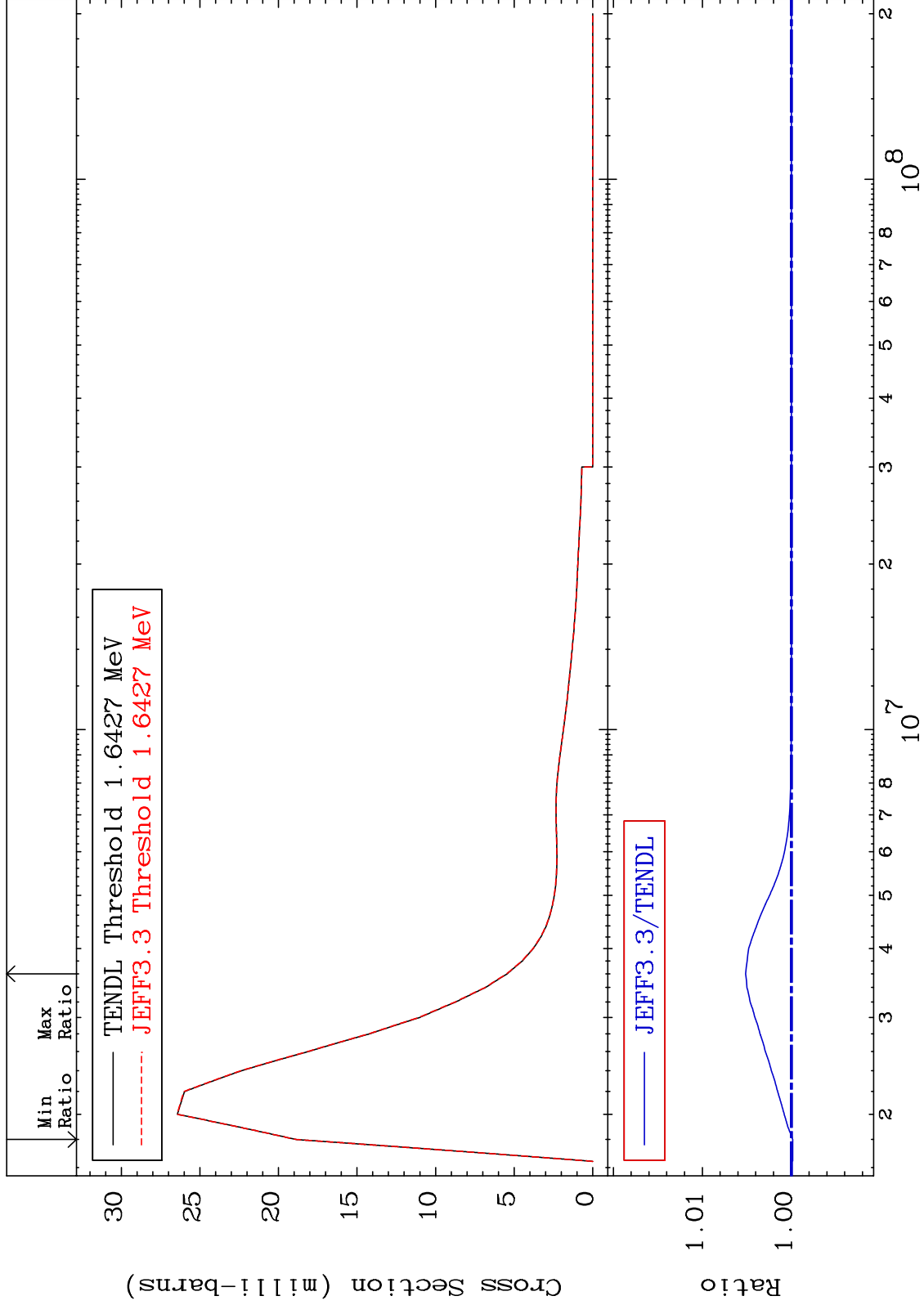
70-Yb-172  
0.000 To 0.421 %



MAT 7037

MT= 80 (n,n') Level  
Cross Section

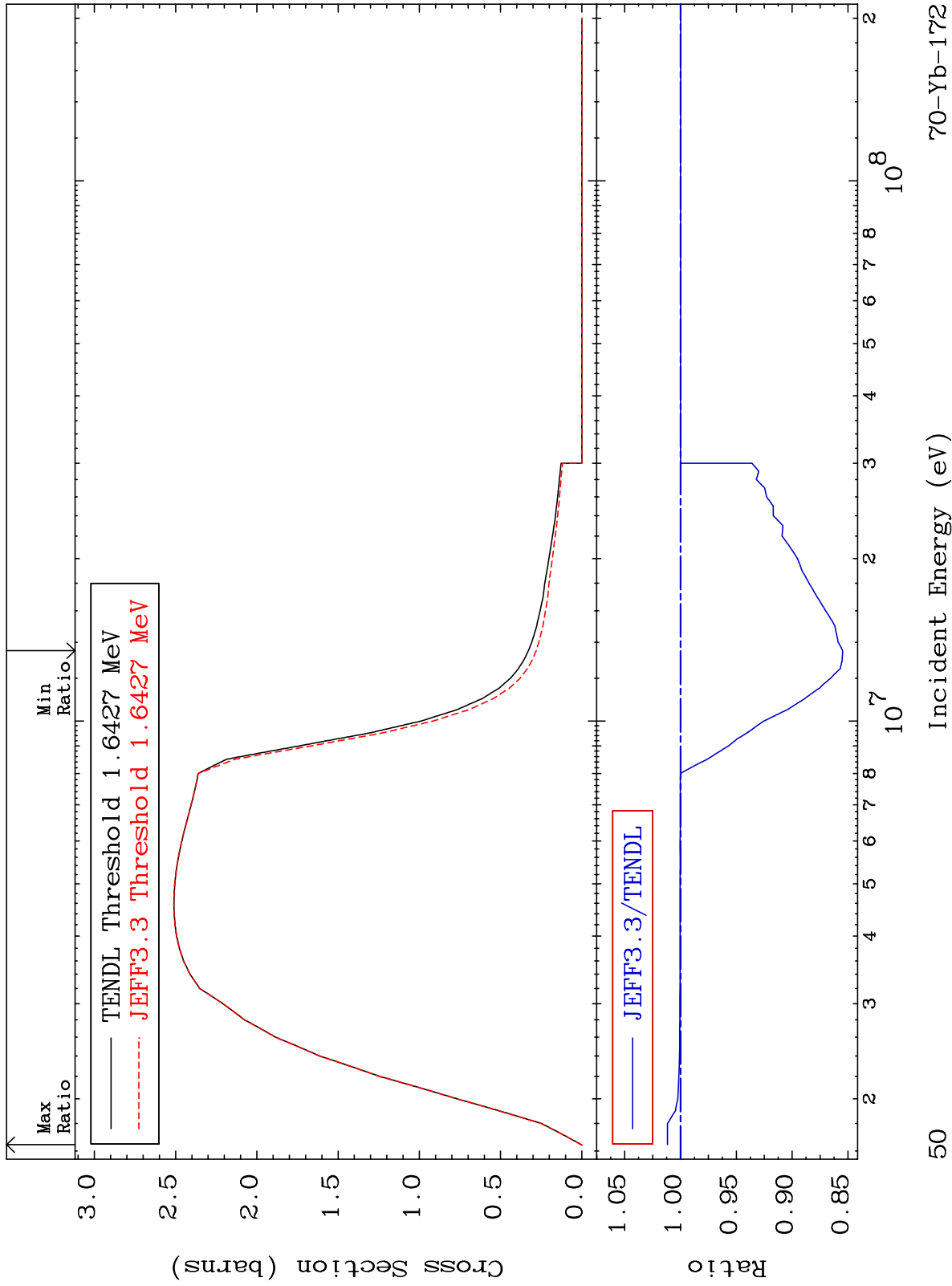
70-Yb-172  
-0.016 To 0.513 %



MAT 7037

(n,n') Continuum  
Cross Section

70-Yb-172  
-14.53 To 1.162 %

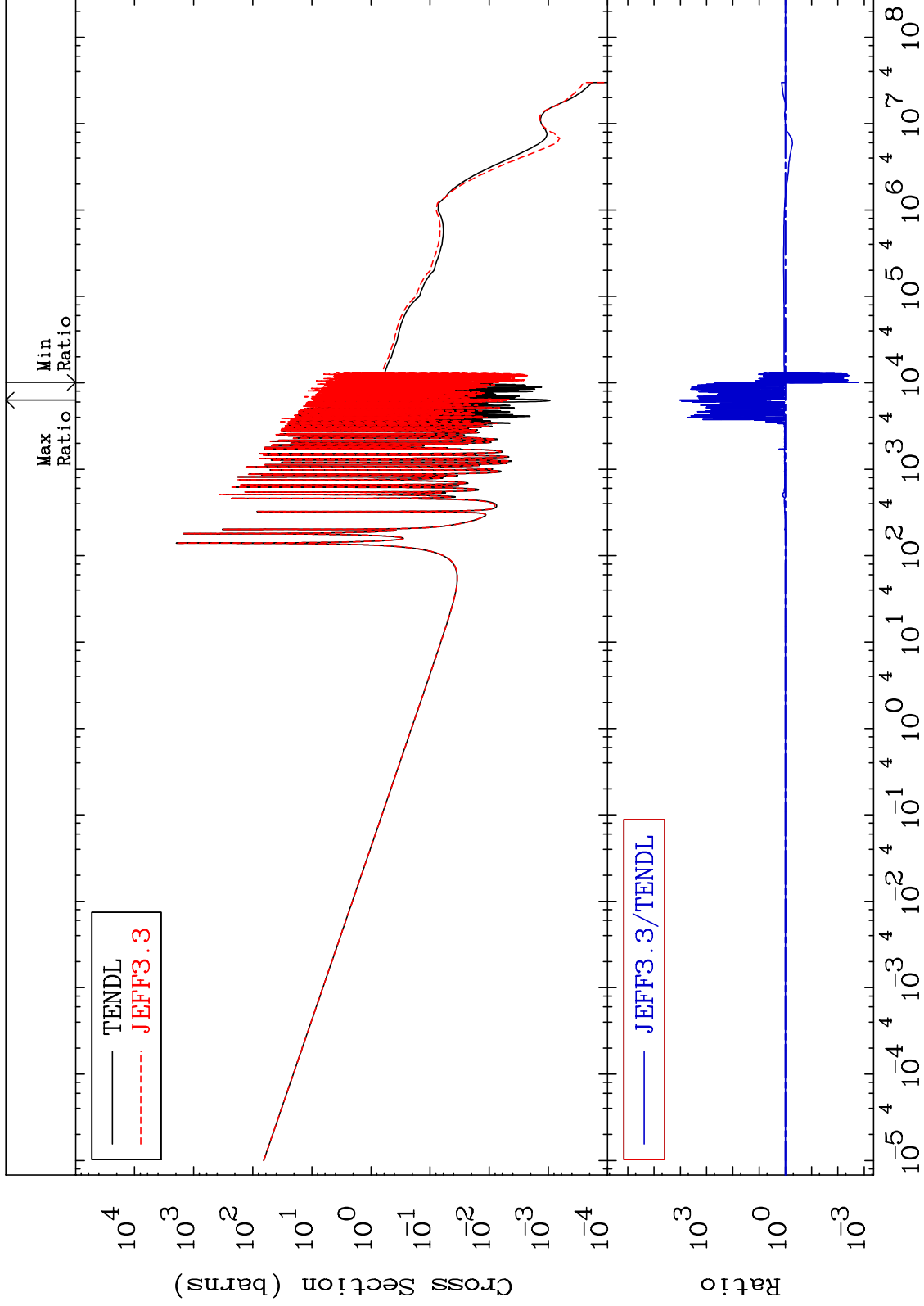


MAT 7037

(n,  $\gamma$ )

70-Yb-172  
-99.83 To 9999. %

Cross Section



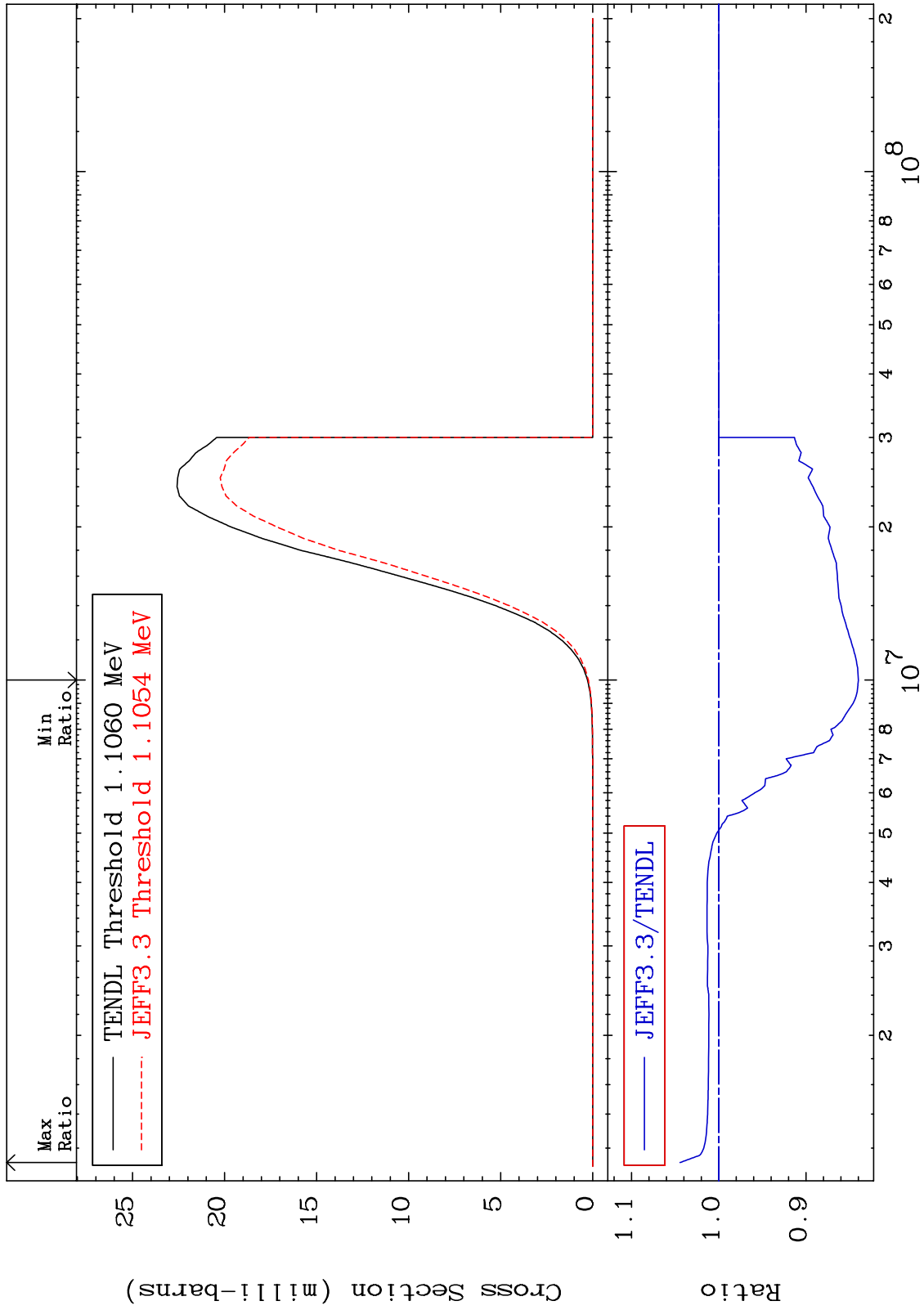
MAT 7037

(n, p)

70-Yb-172

Cross Section

-16.01 To 4.441 %



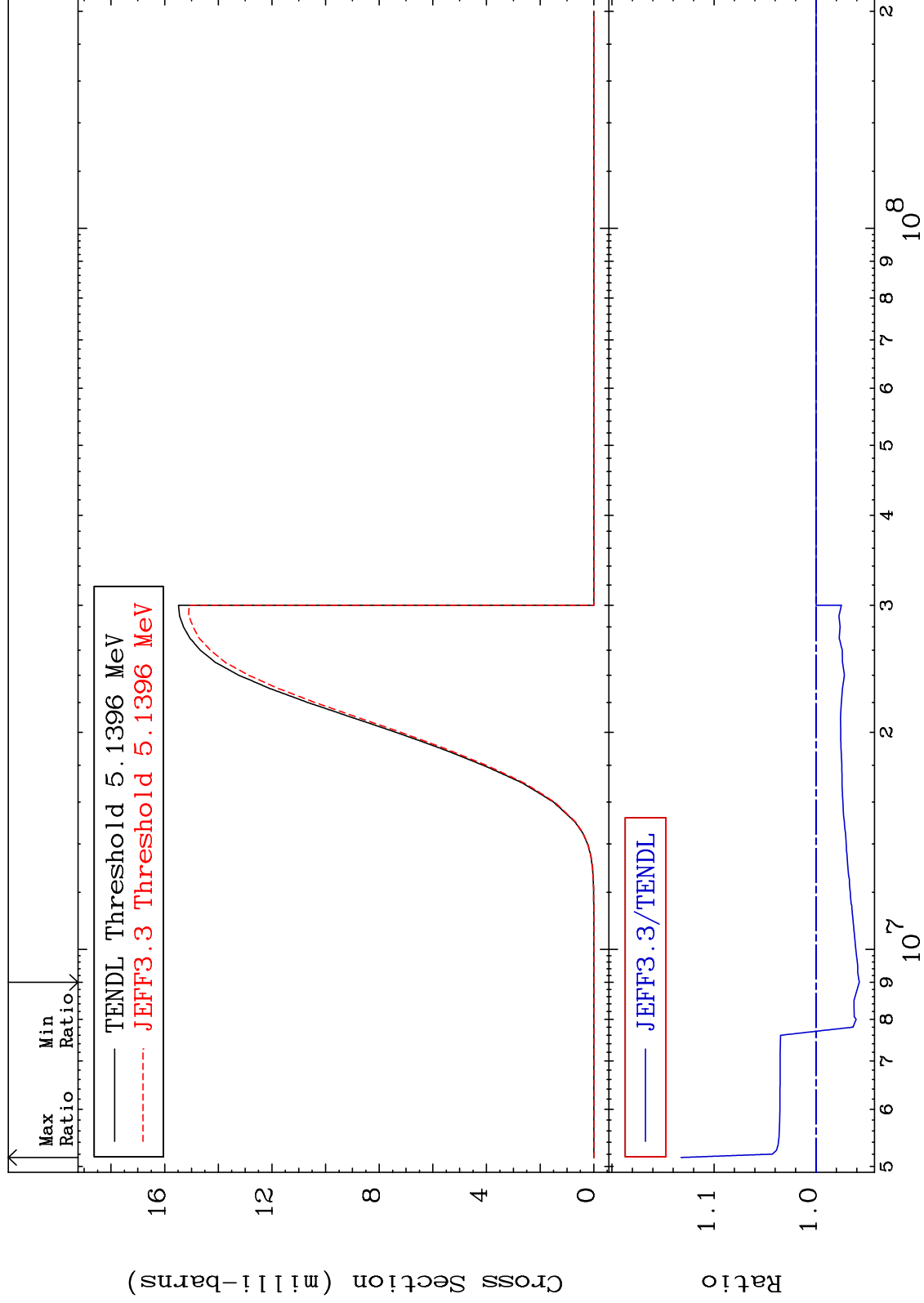
MAT 7037

(n, d)

70-Yb-172

Cross Section

-4.237 To 13.23 %



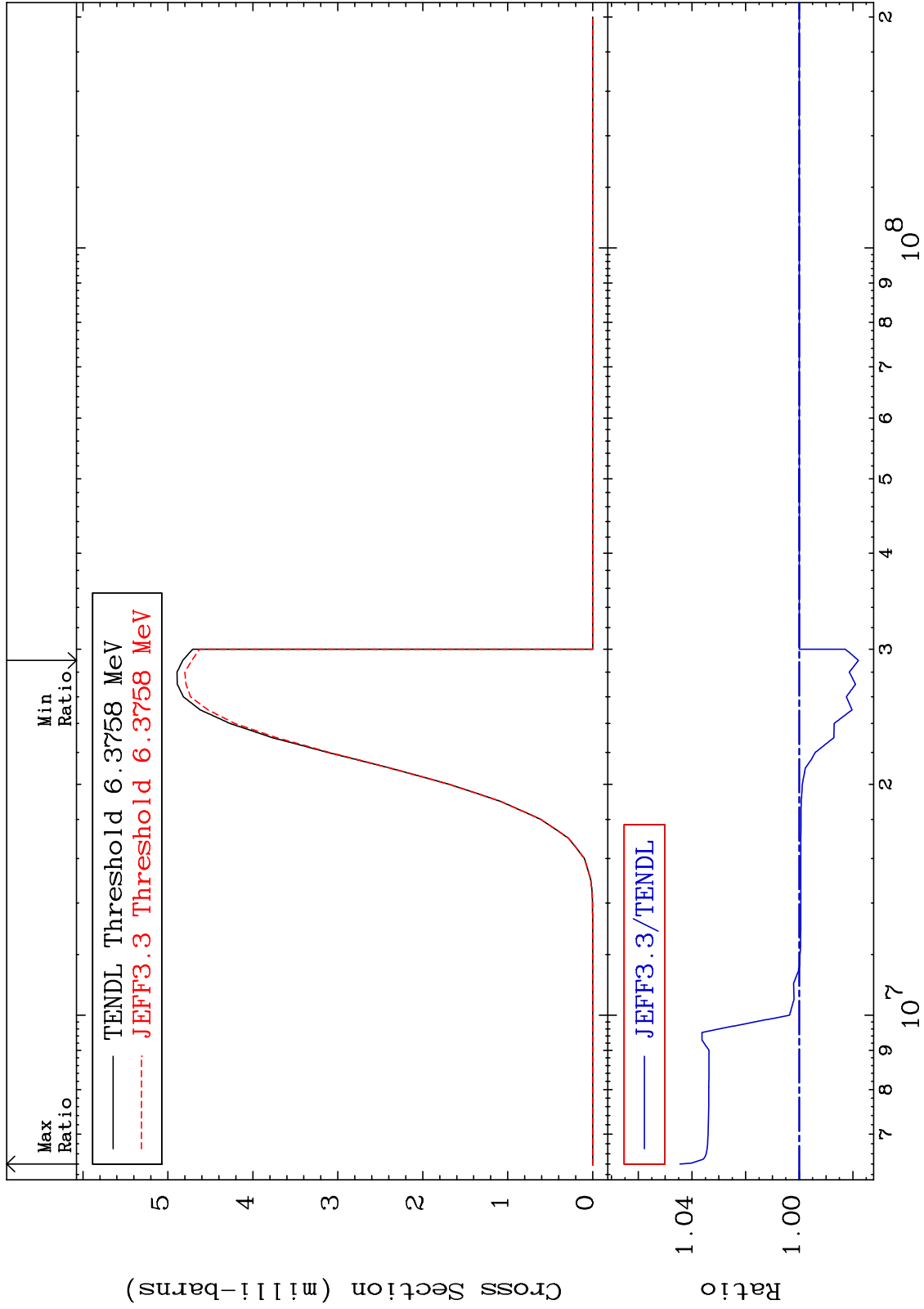
MAT 7037

(n, t)

70-Yb-172

Cross Section

-2.206 To 4.446 %



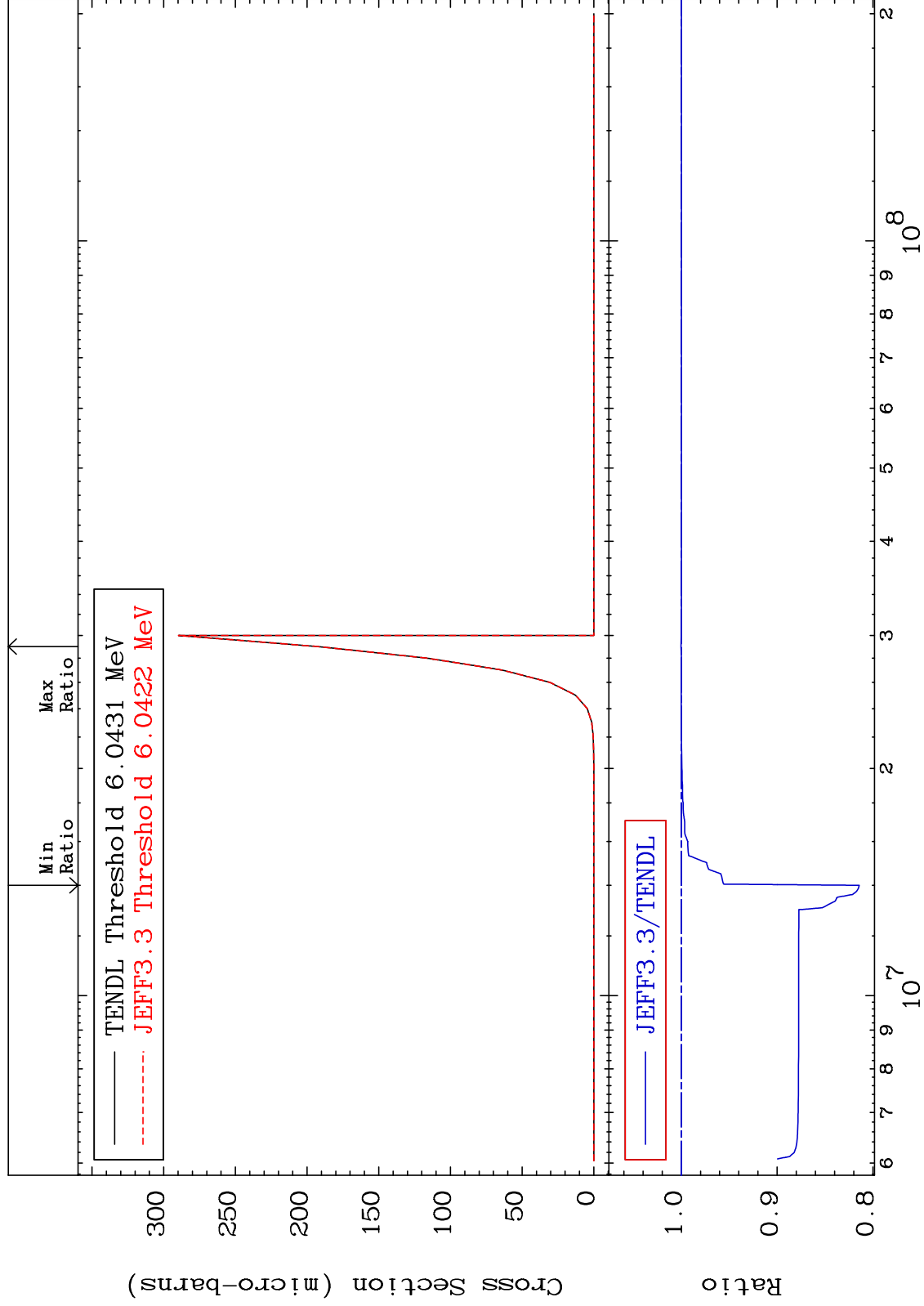
MAT 7037

(n, He-3)

70-Yb-172

Cross Section

-18.58 To 0.030 %



55

Incident Energy (eV)

70-Yb-172



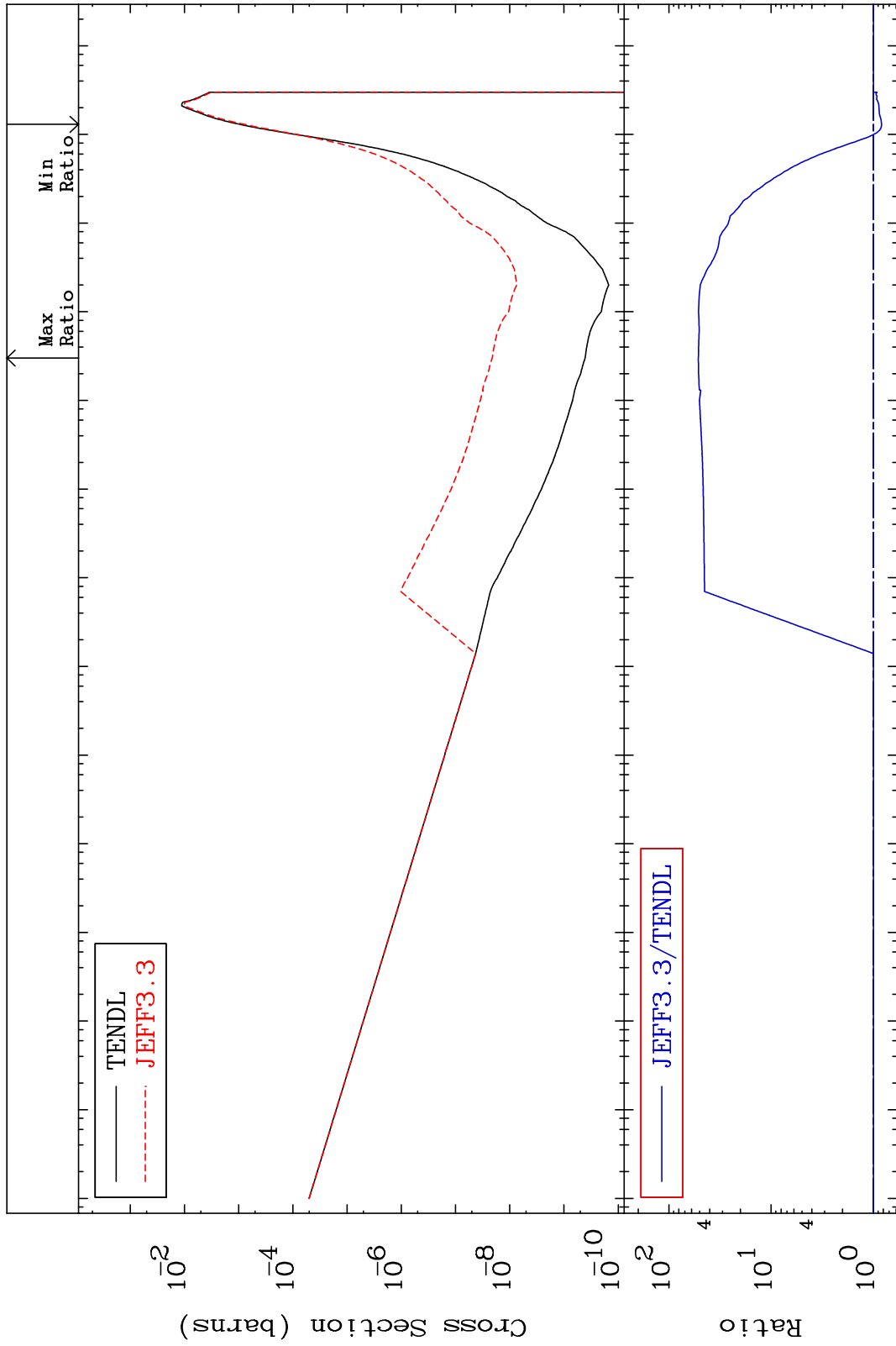
MAT 7037

(n,  $\alpha$ )

70-Yb-172

Cross Section

-16.82 To 5059. %



Incident Energy (eV)

70-Yb-172

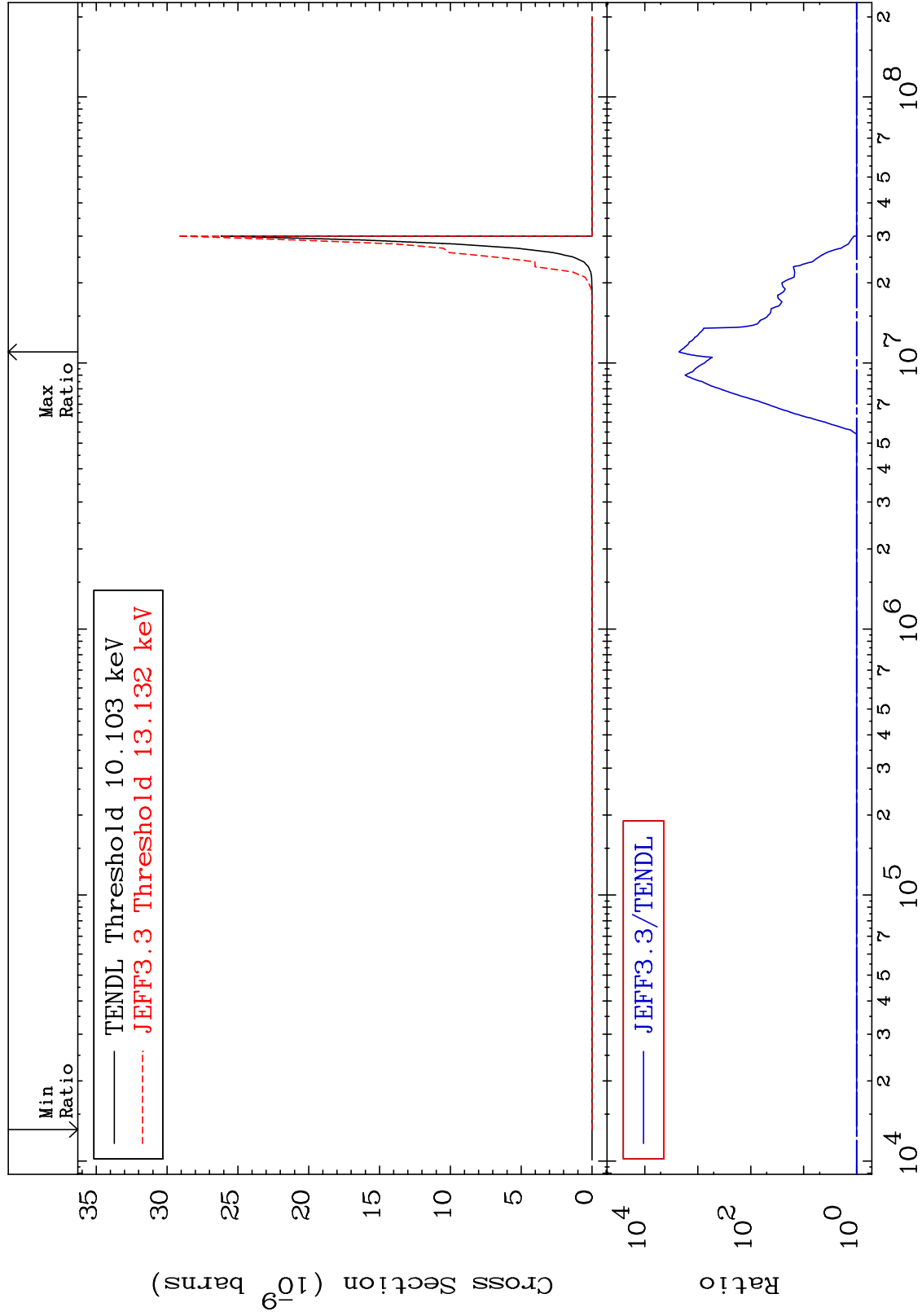
MAT 7037

(n, 2α)

70-Yb-172

Cross Section

0.000 To 9999. %



57

Incident Energy (eV)

70-Yb-172

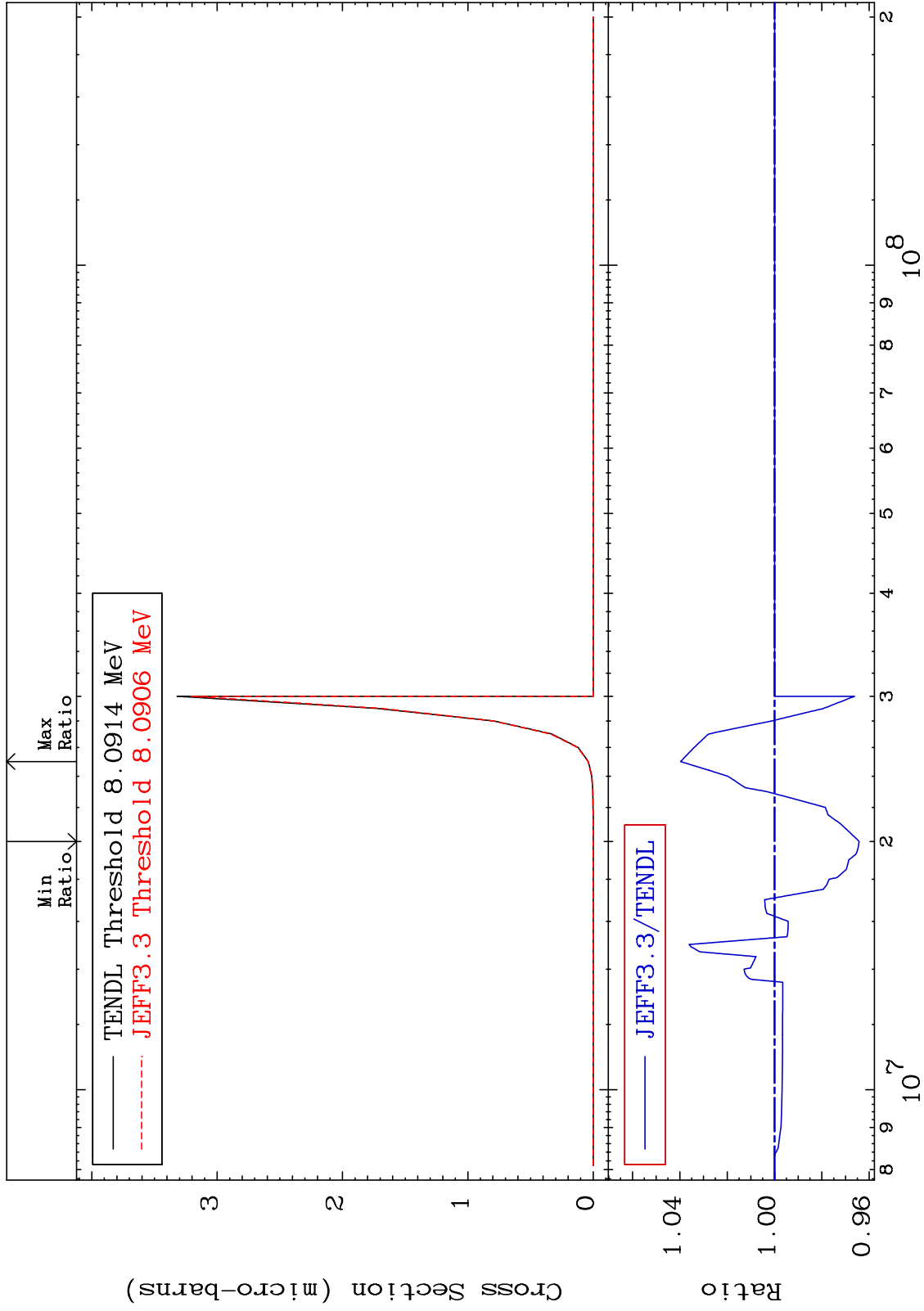
MAT 7037

(n,2p)

70-Yb-172

Cross Section

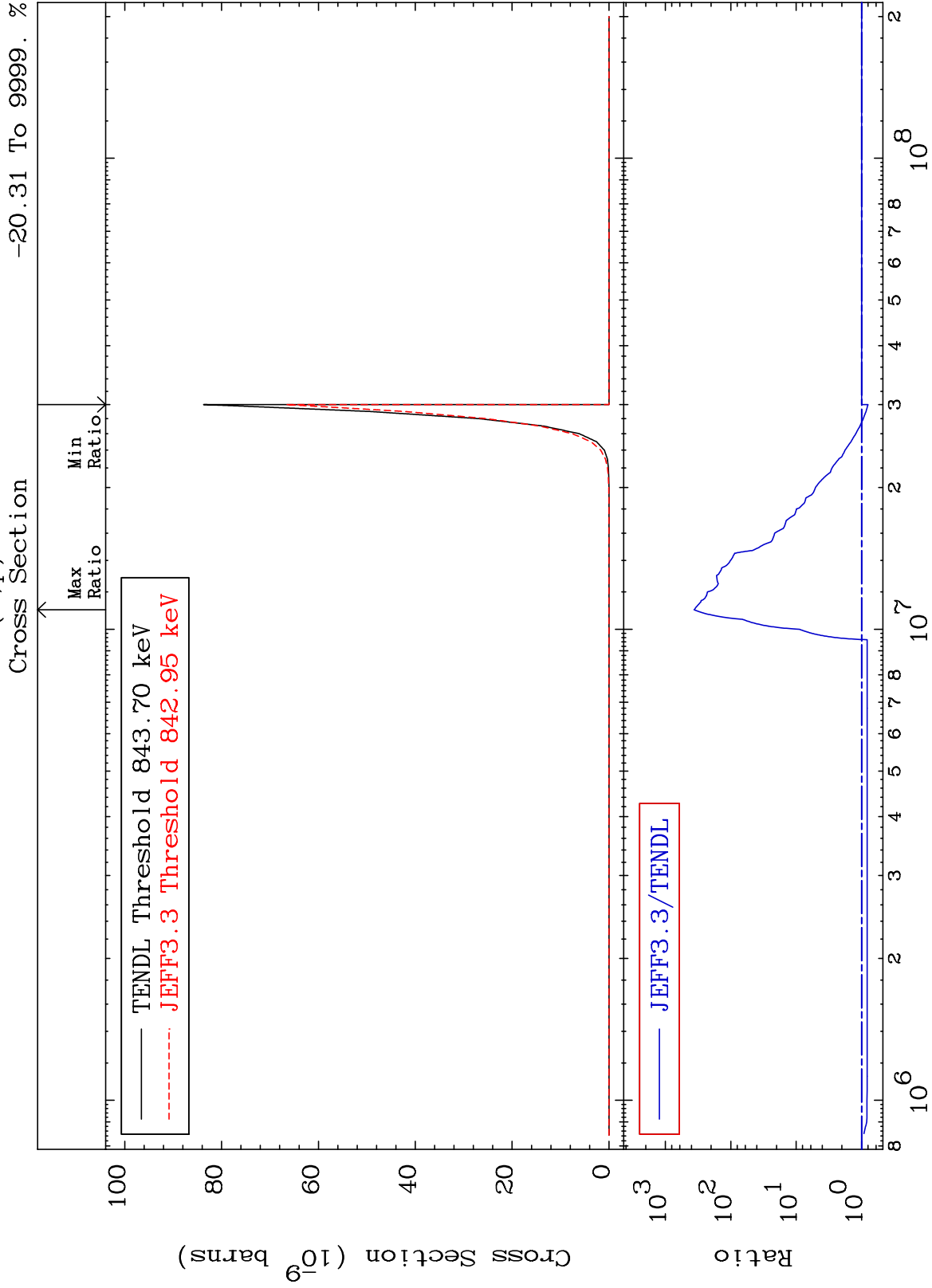
-3.574 To 3.966 %



MAT 7037

(n,p)  $\alpha$

70-Yb-172  
-20.31 To 9999. %



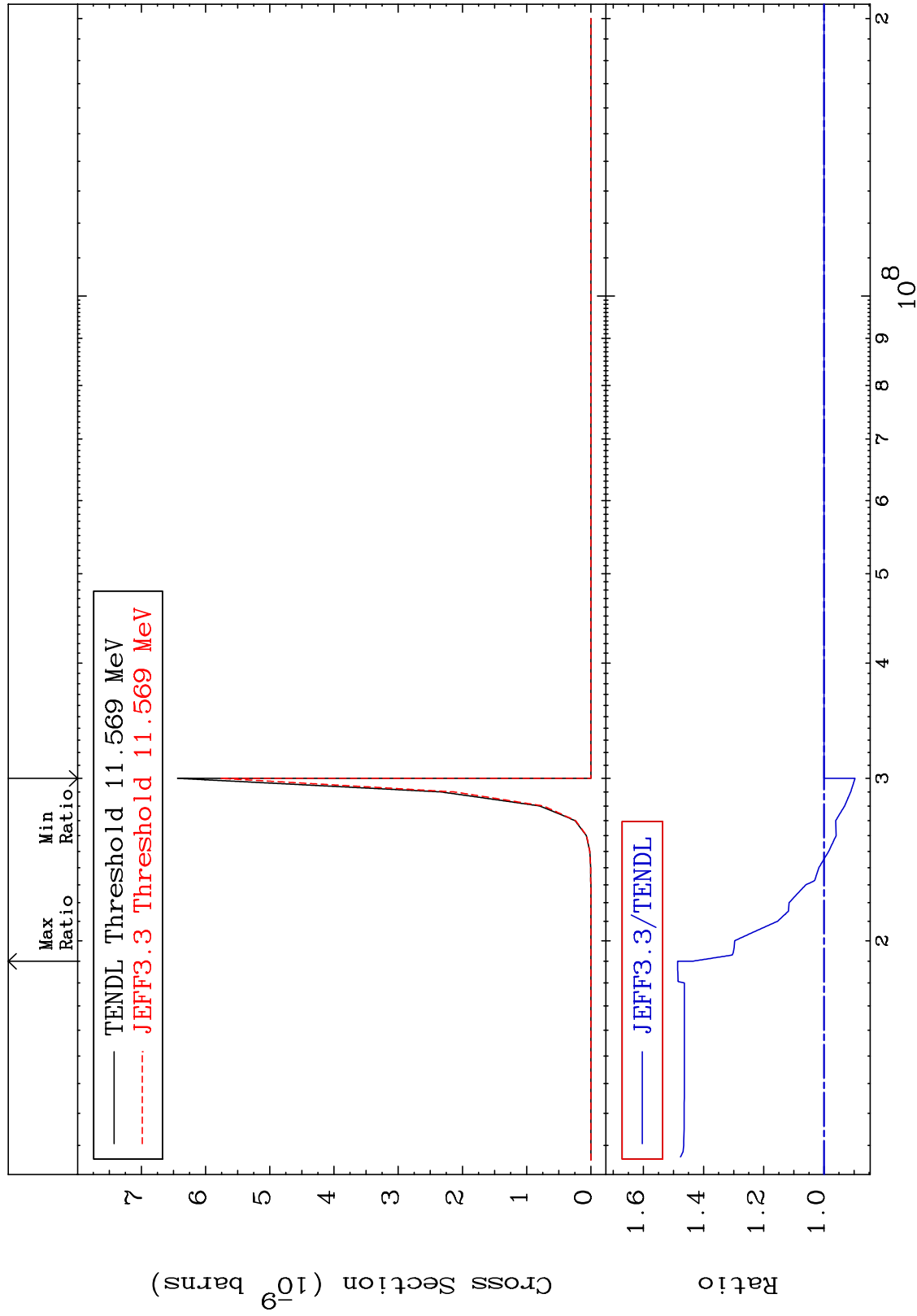
MAT 7037

(n,p) d

70-Yb-172

Cross Section

-10.32 To 48.60 %



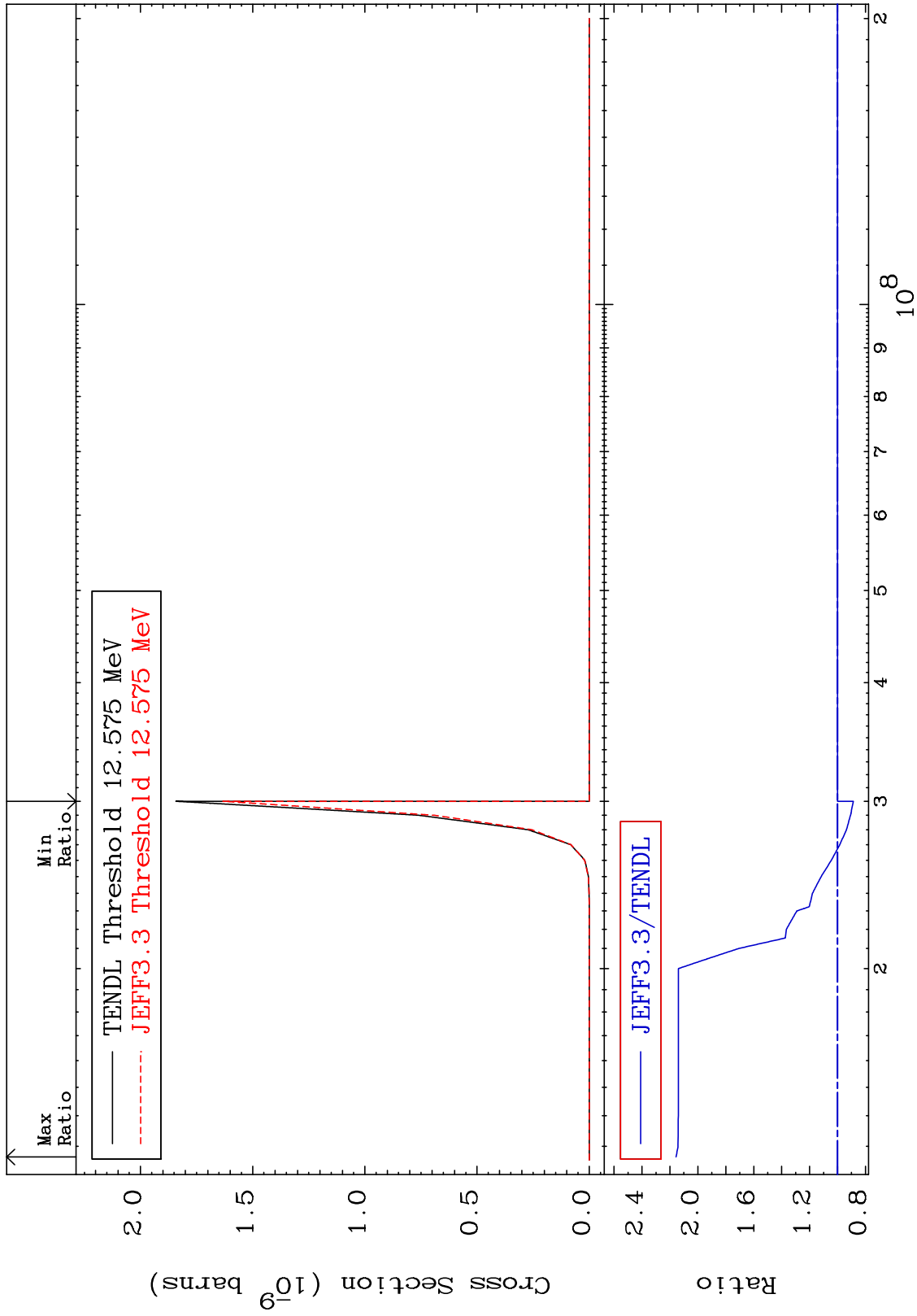
MAT 7037

(n,p) t

70-Yb-172

Cross Section

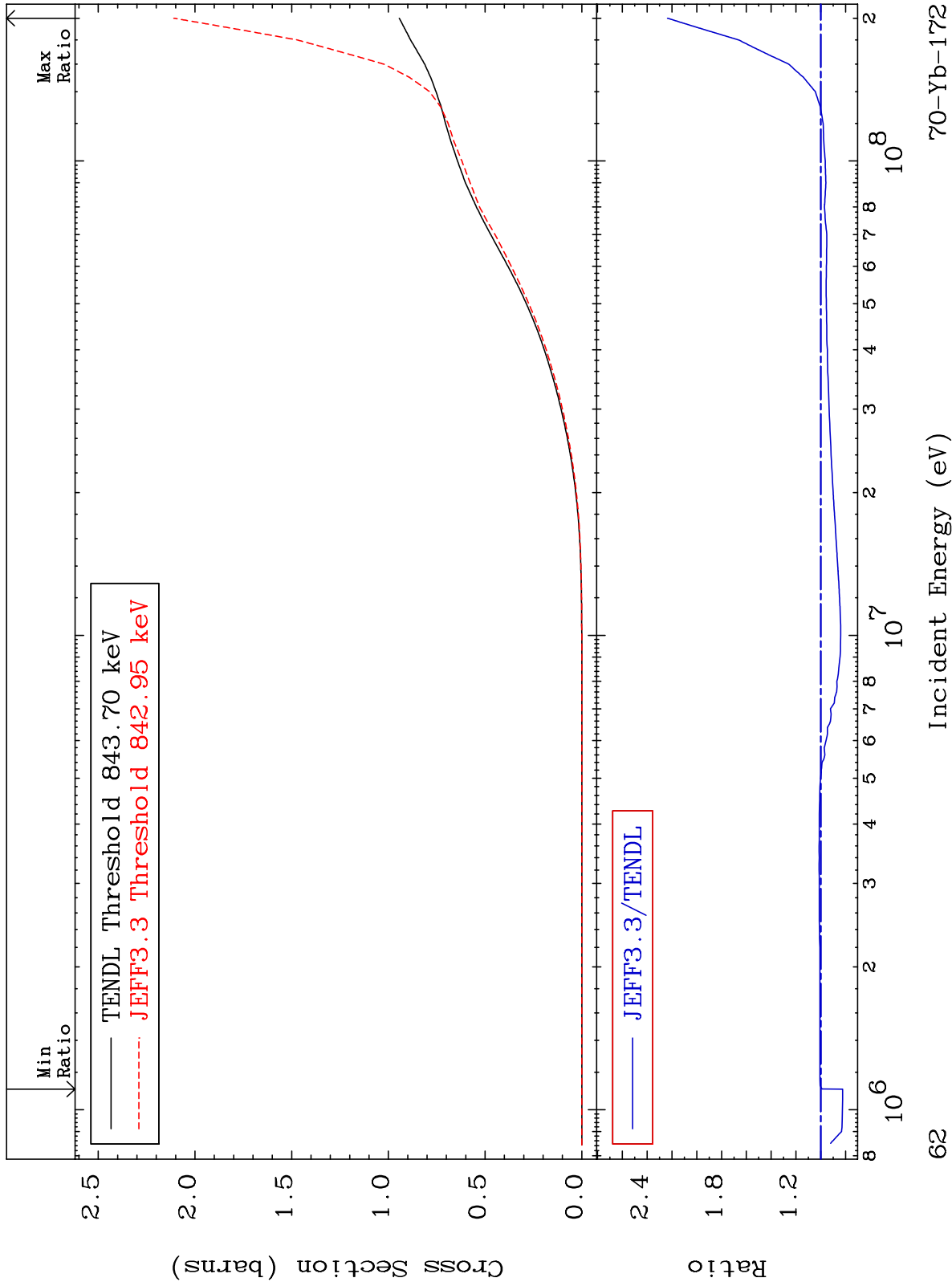
-11.35 To 115.6 %



MAT 7037

Hydrogen Production  
Cross Section

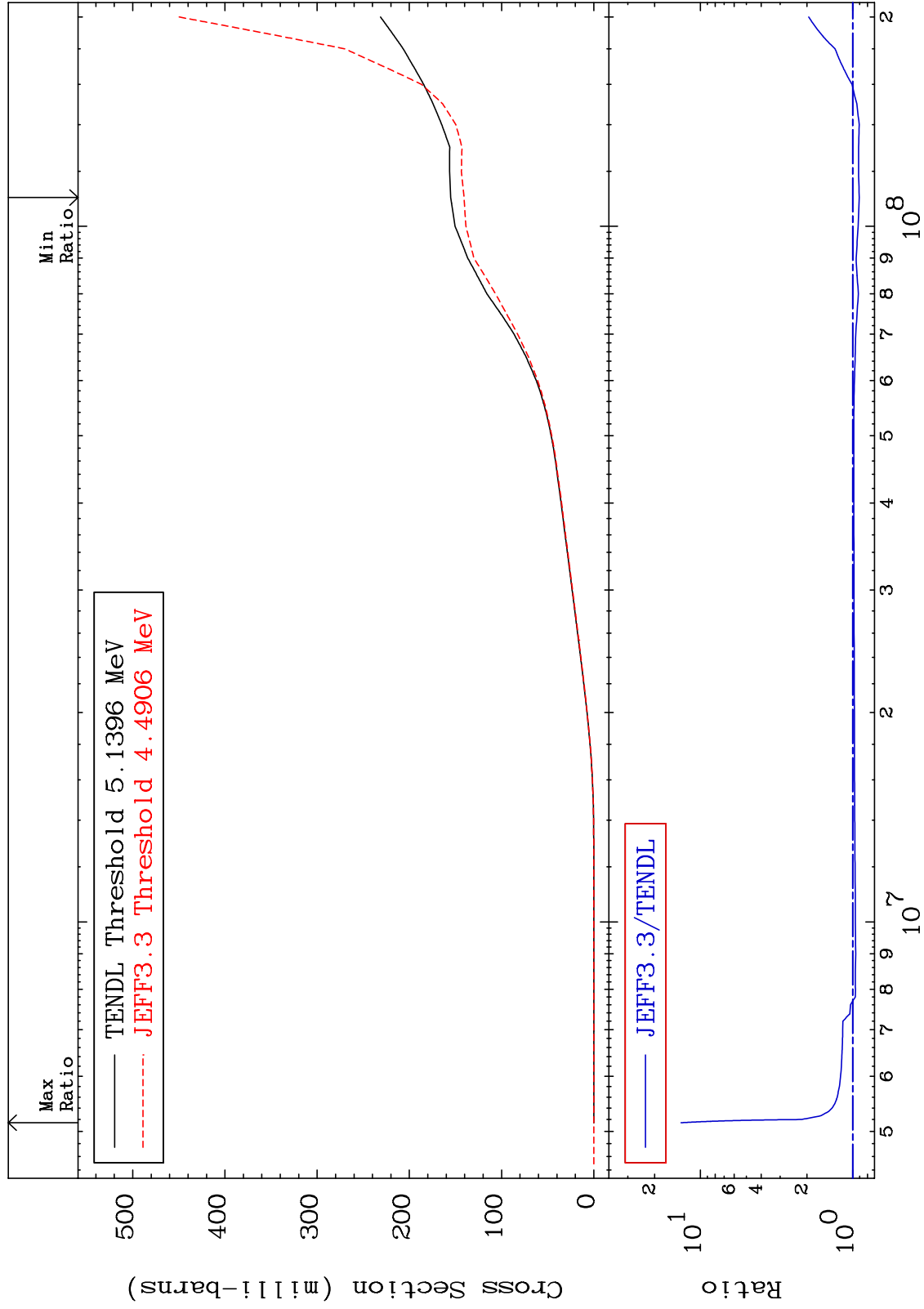
70-Yb-172  
-17.59 To 123.5 %



MAT 7037

Deuterium Production  
Cross Section

70-Yb-172  
-9.366 To 1241. %



63

Incident Energy (eV)

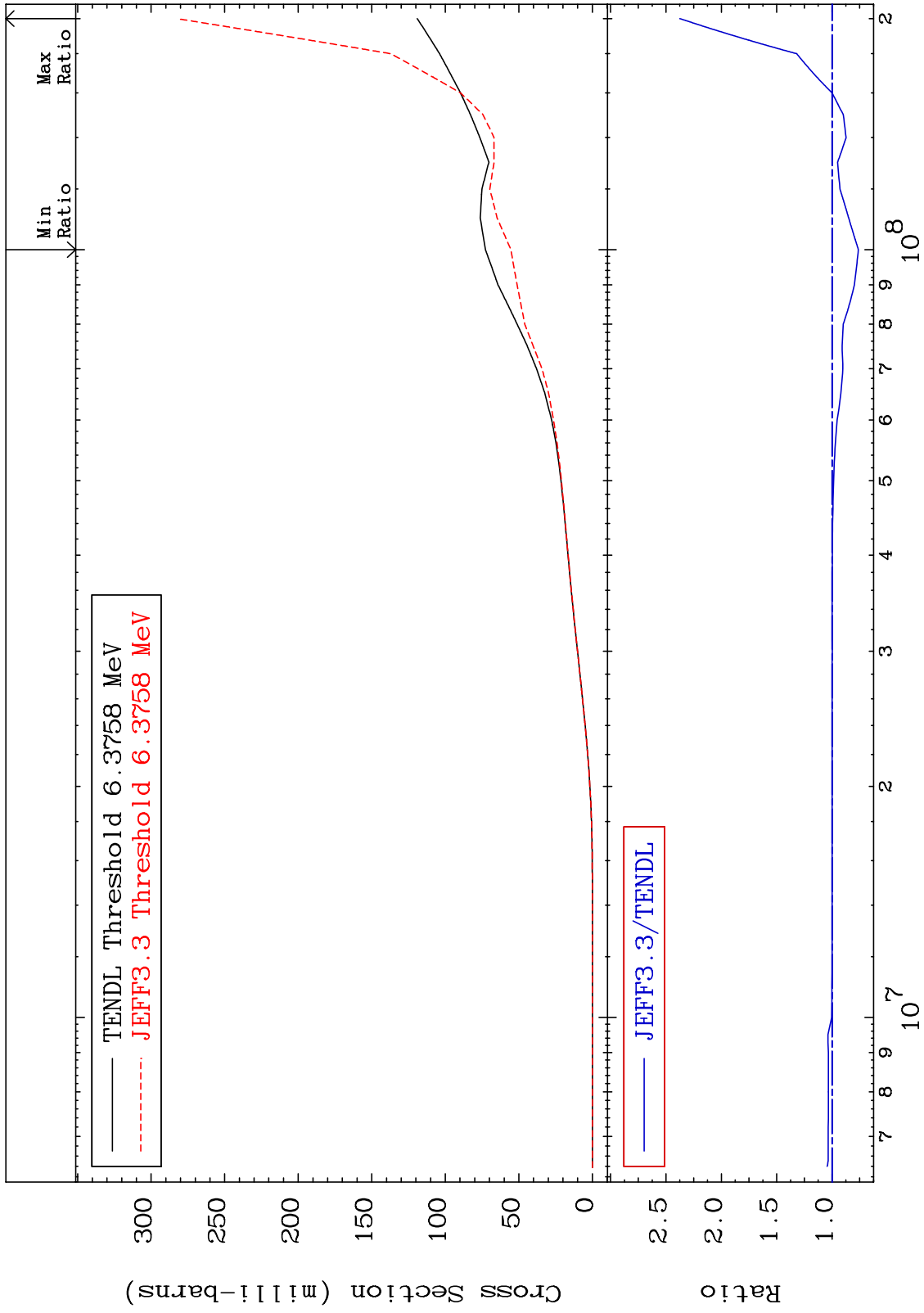
70-Yb-172



MAT 7037

Tritium Production  
Cross Section

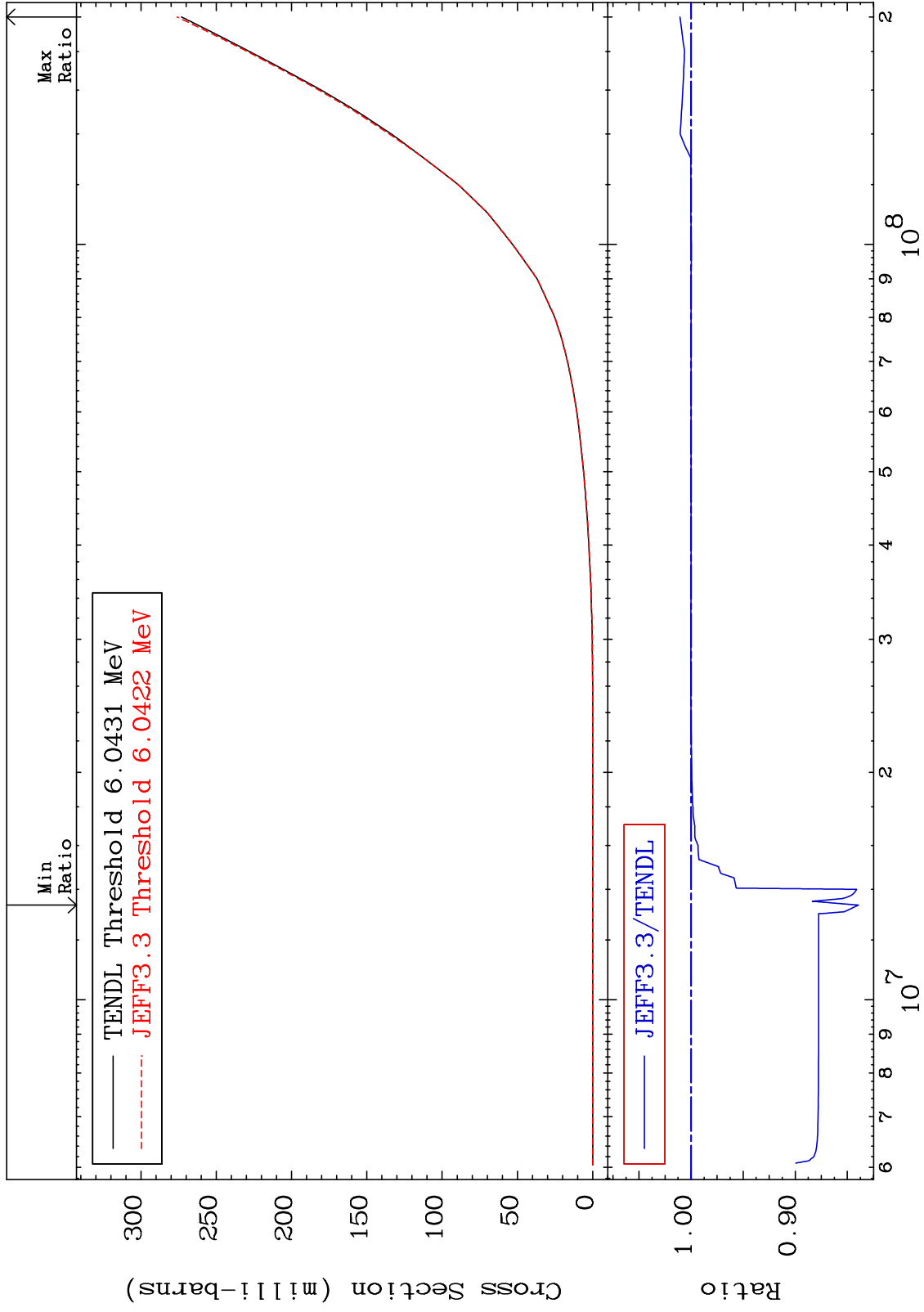
70-Yb-172  
-23.77 To 137.5 %



MAT 7037

He-3 Production  
Cross Section

70-Yb-172  
-16.07 To 1.062 %



65

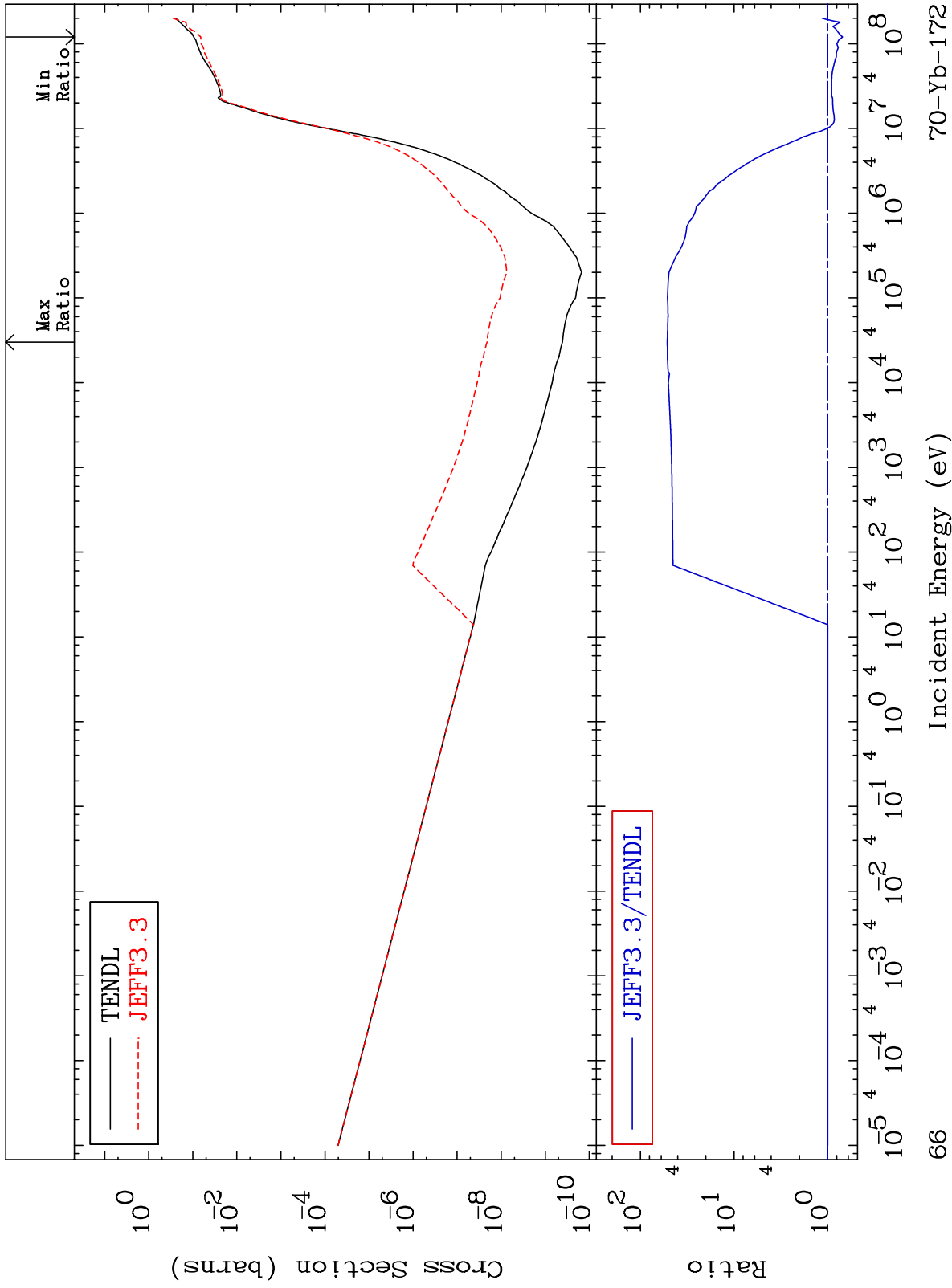
Incident Energy (eV)

70-Yb-172

MAT 7037

He-4 Production  
Cross Section

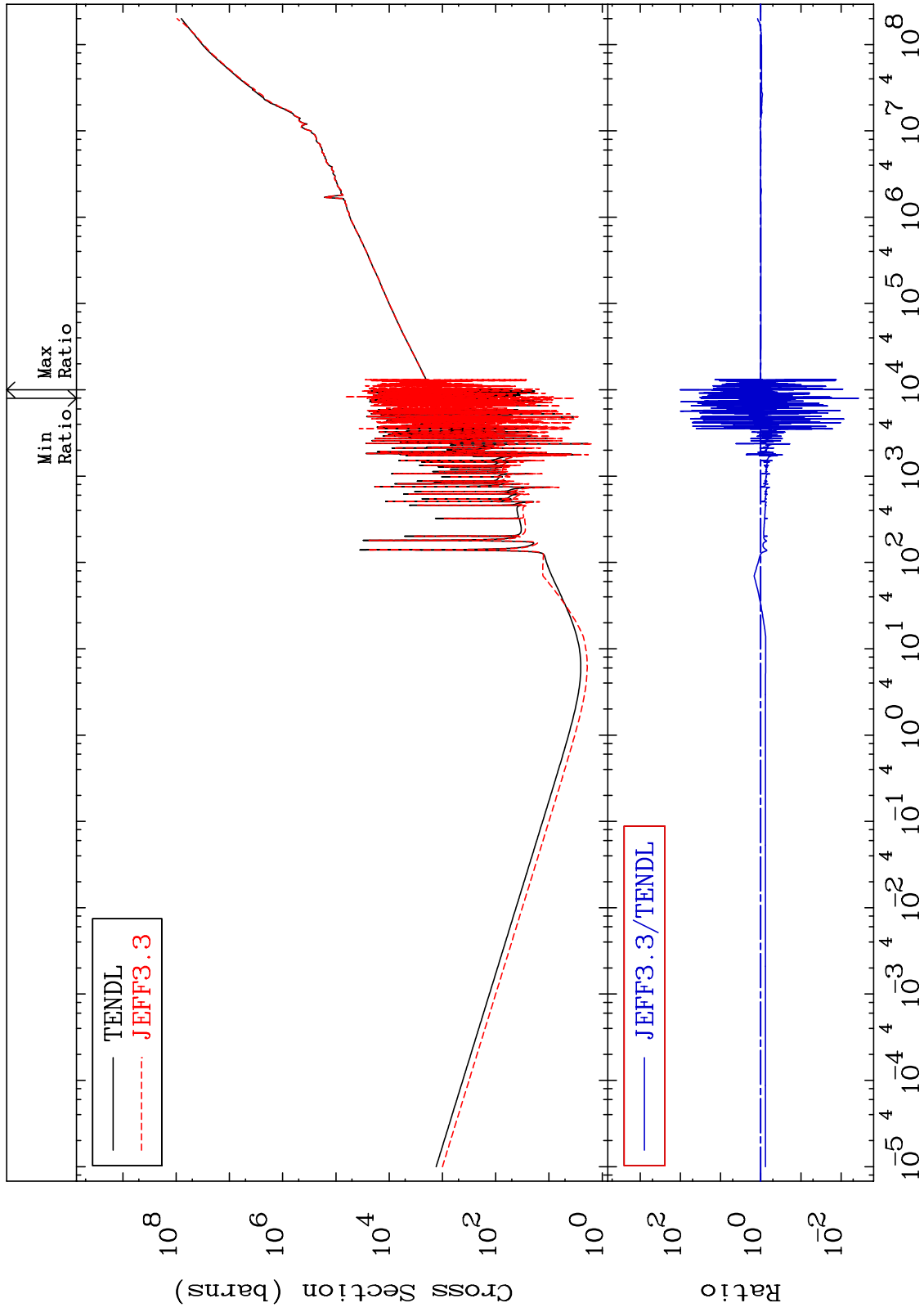
70-Yb-172  
-30.84 To 5059. %



MAT 7037

Kerma total (eV-barns)  
Cross Section

70-Yb-172  
-99.63 To 9999. %



67

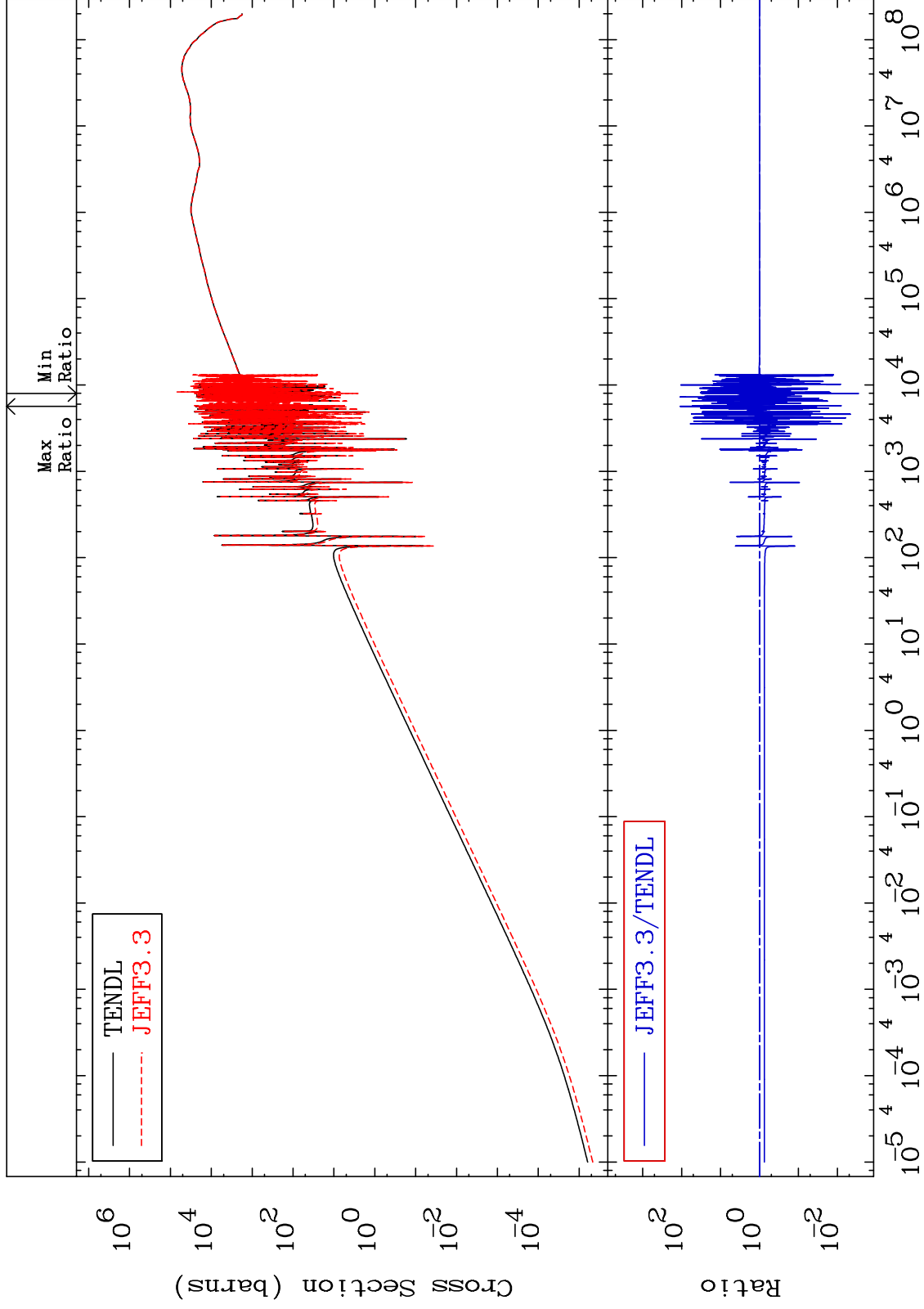
Incident Energy (eV)

70-Yb-172

MAT 7037

Kerma elastic  
Cross Section

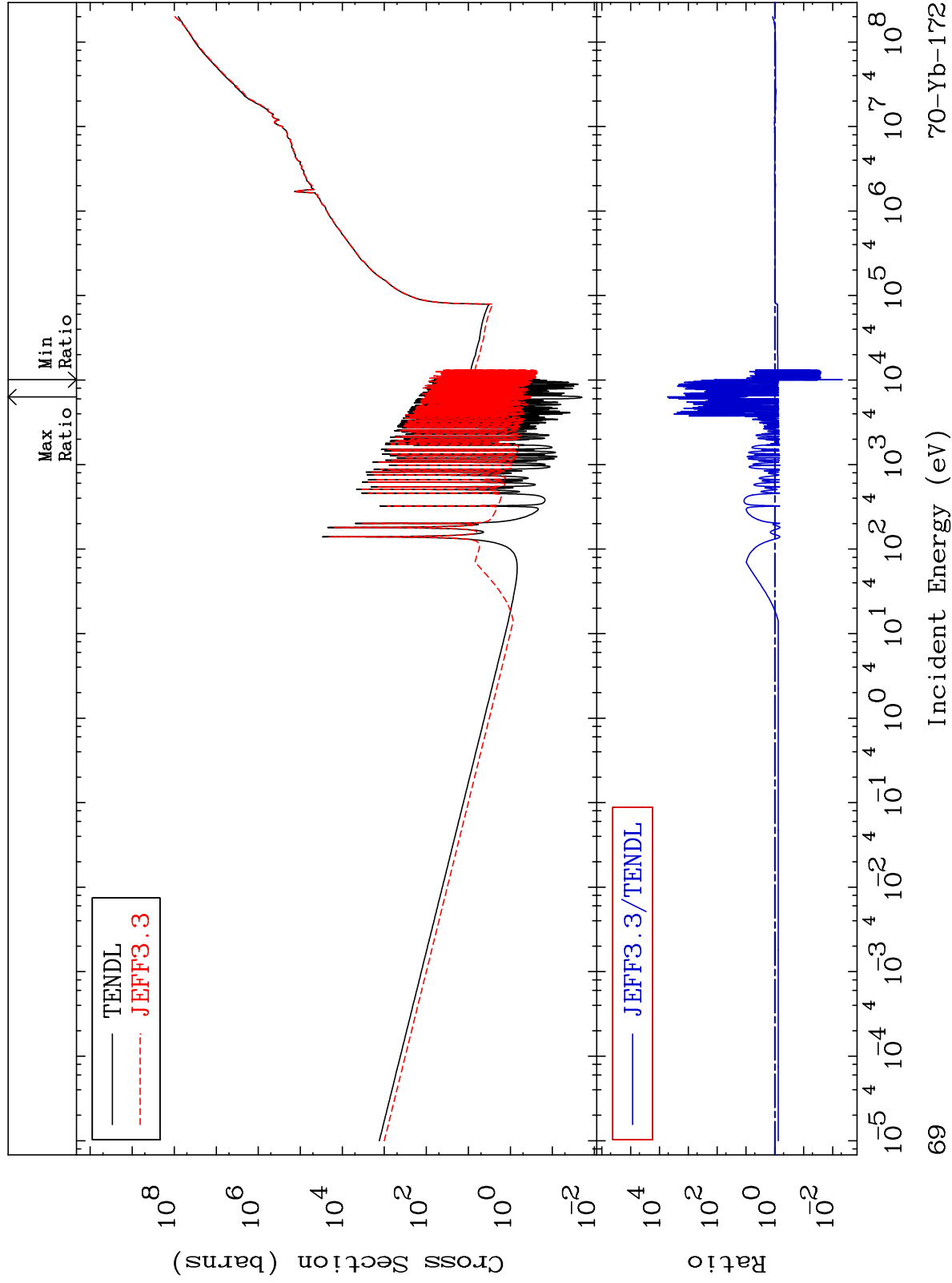
70-Yb-172  
-99.71 To 9999. %



MAT 7037

Kerma non-elastic (all but mt2)  
Cross Section

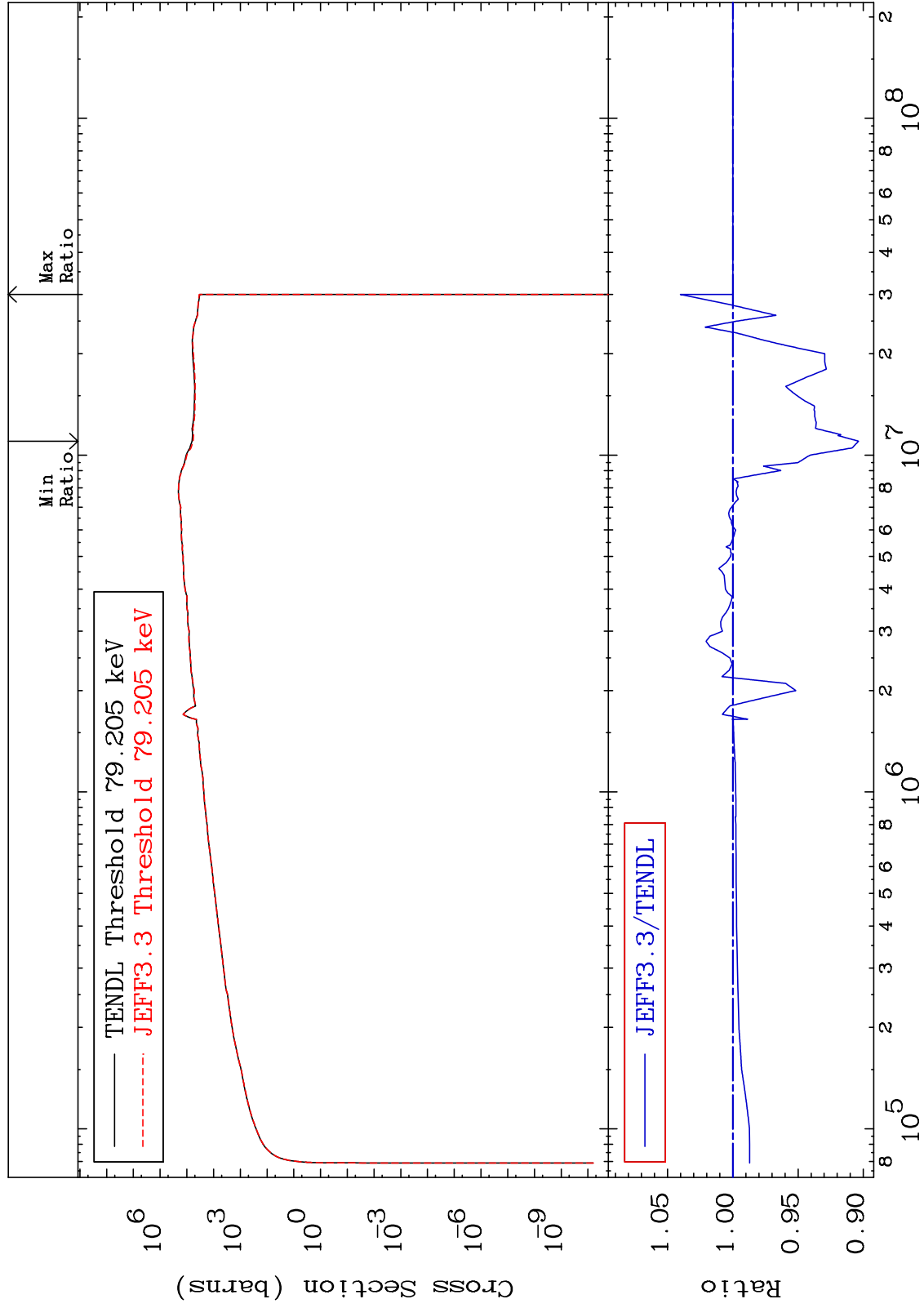
70-Yb-172  
-99.53 To 9999. %



MAT 7037

Kerma inelastic (mt51-91)  
Cross Section

70-Yb-172  
-9.632 To 4.015 %

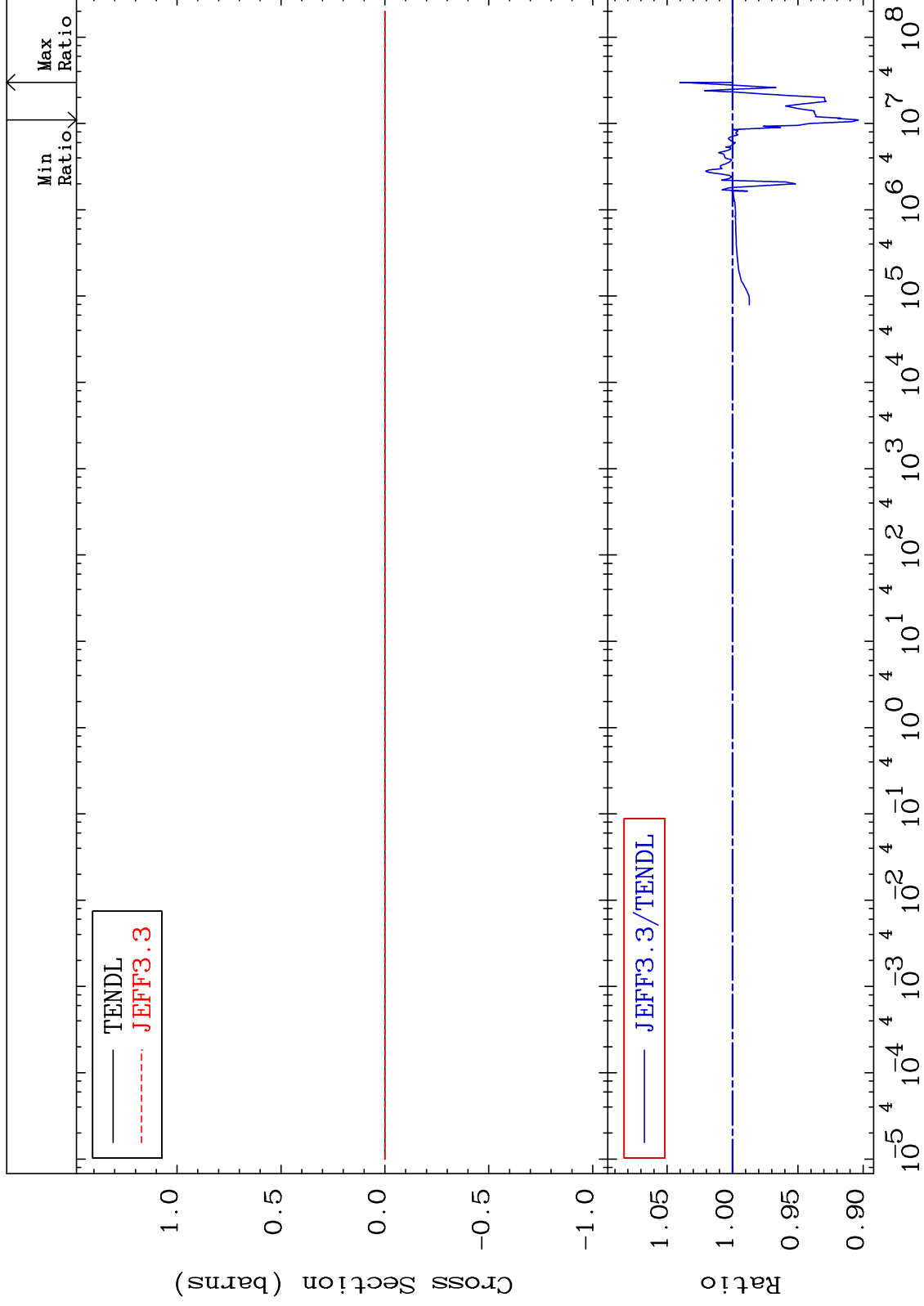


70 70-Yb-172

MAT 7037

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

70-Yb-172  
-9.632 To 4.015 %



71

Incident Energy (eV)

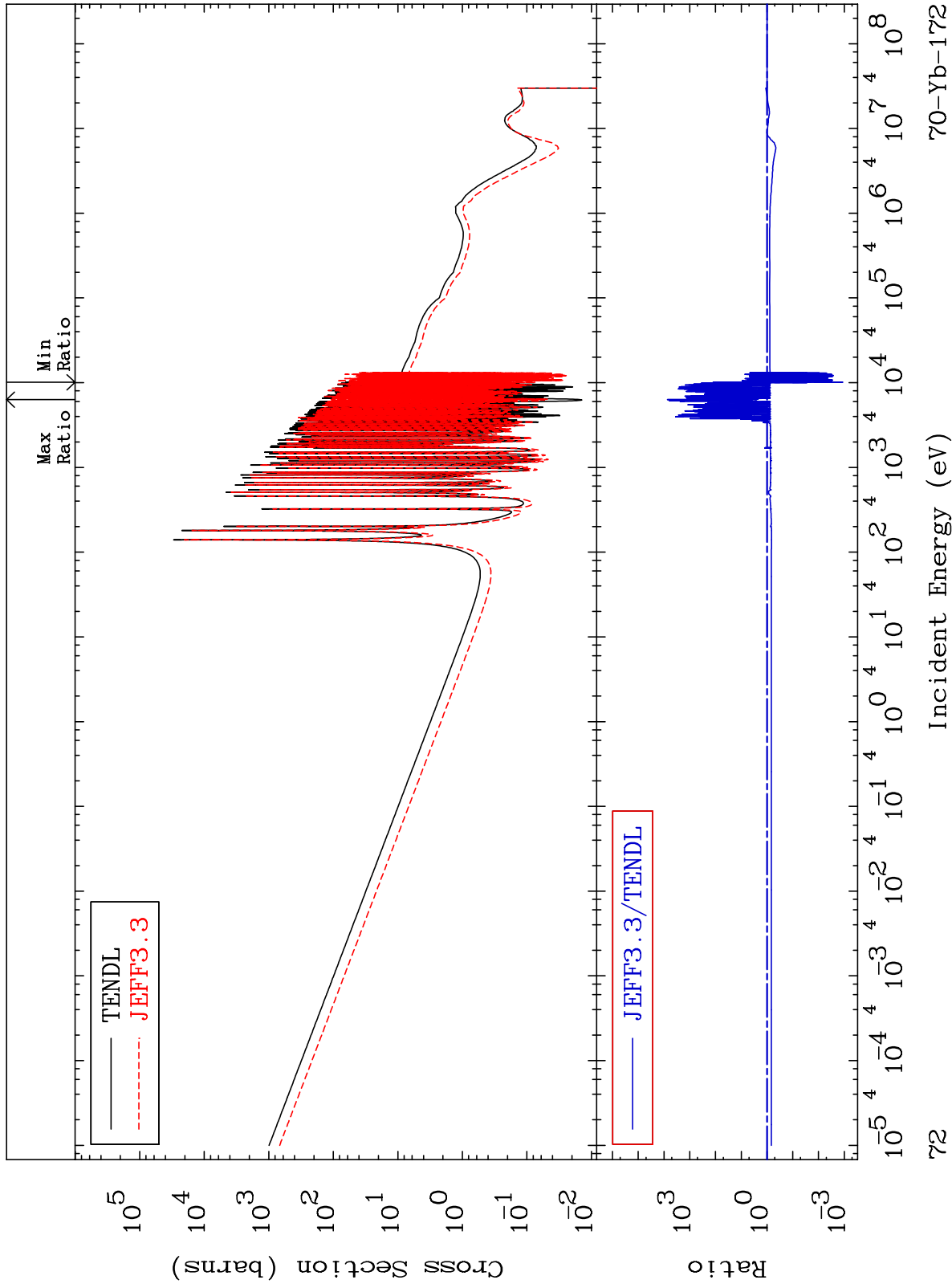
70-Yb-172



MAT 7037

Kerma capture (mt102)  
Cross Section

70-Yb-172  
-99.88 To 9999. %



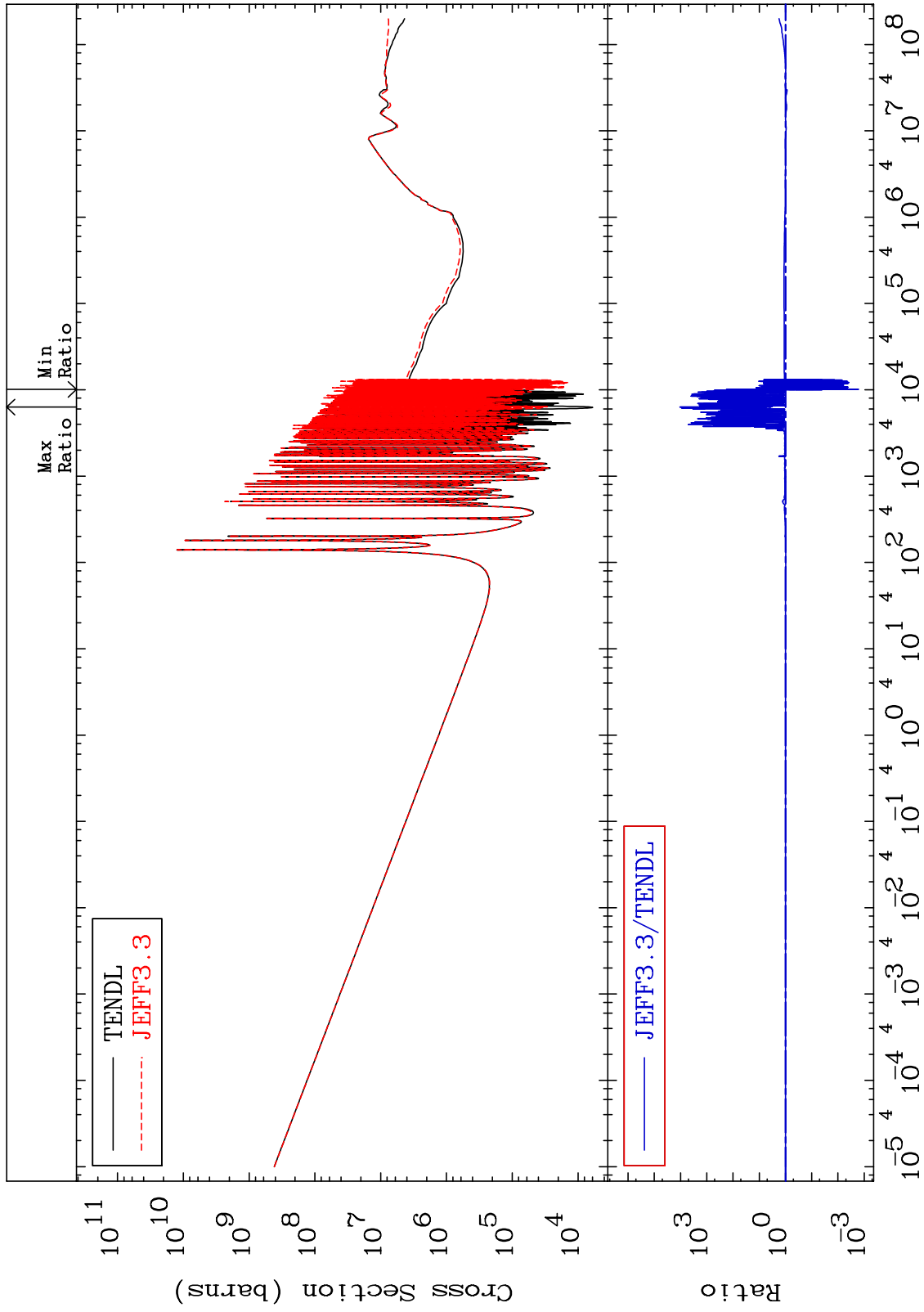
72

70-Yb-172

MAT 7037

Total photon (eV-barns)  
Cross Section

70-Yb-172  
-99.83 To 9999. %



Incident Energy (eV)

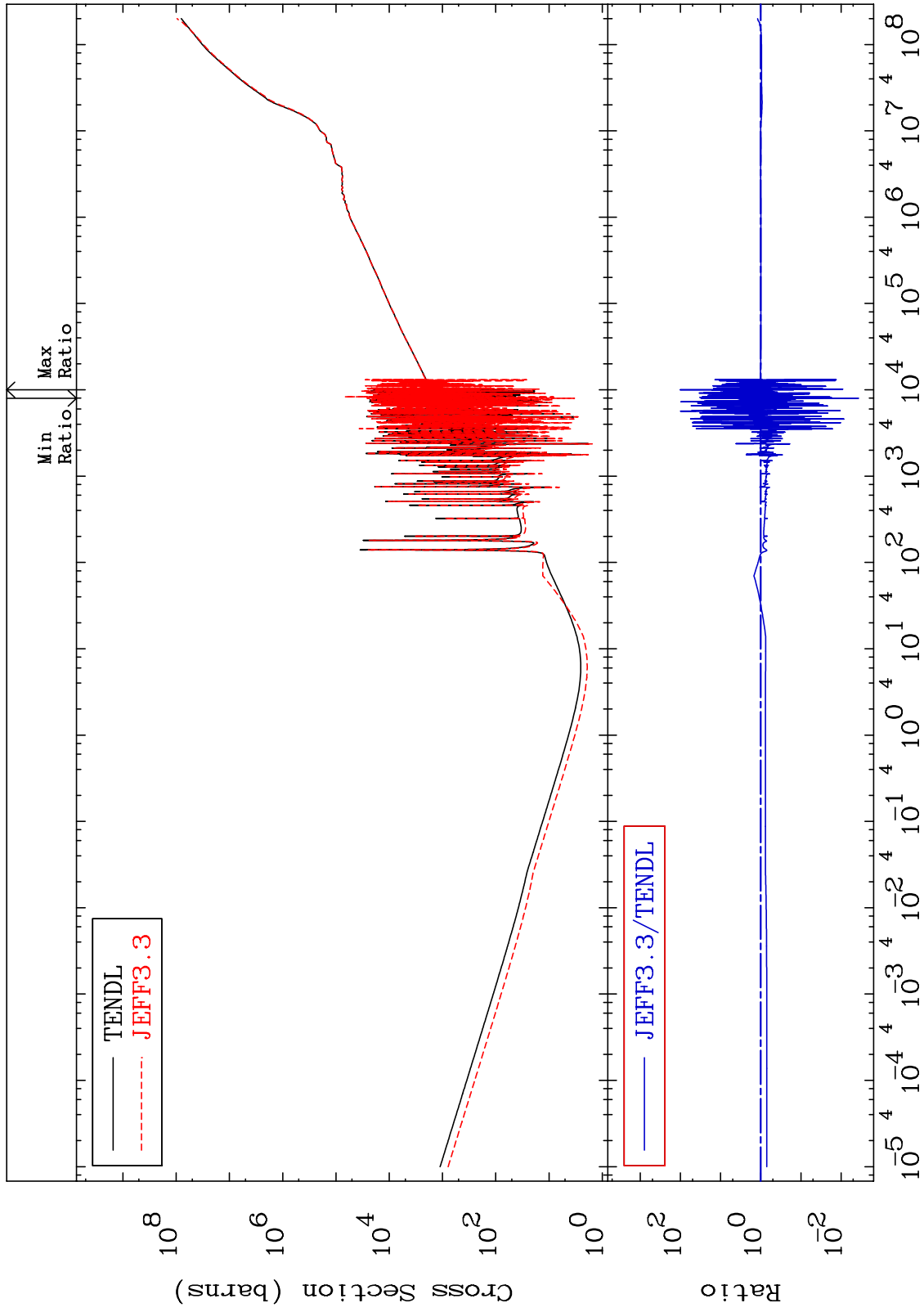
70-Yb-172

73

MAT 7037

Total kinematic kerma (high limit)  
Cross Section

70-Yb-172  
-99.63 To 9999. %



74

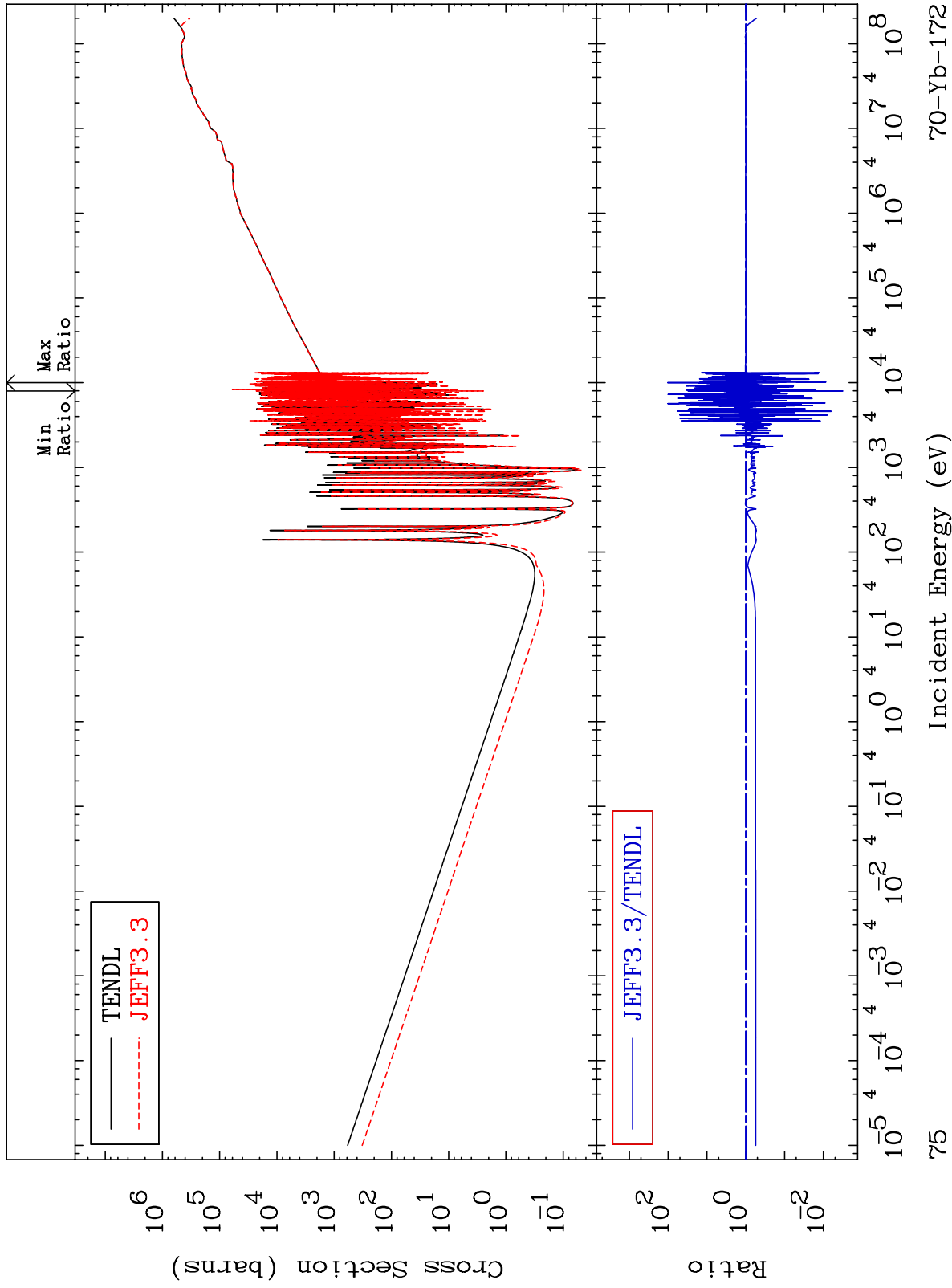
Incident Energy (eV)

70-Yb-172

MAT 7037

Dpa total (eV-barns)  
Cross Section

70-Yb-172  
-99.68 To 9999. %



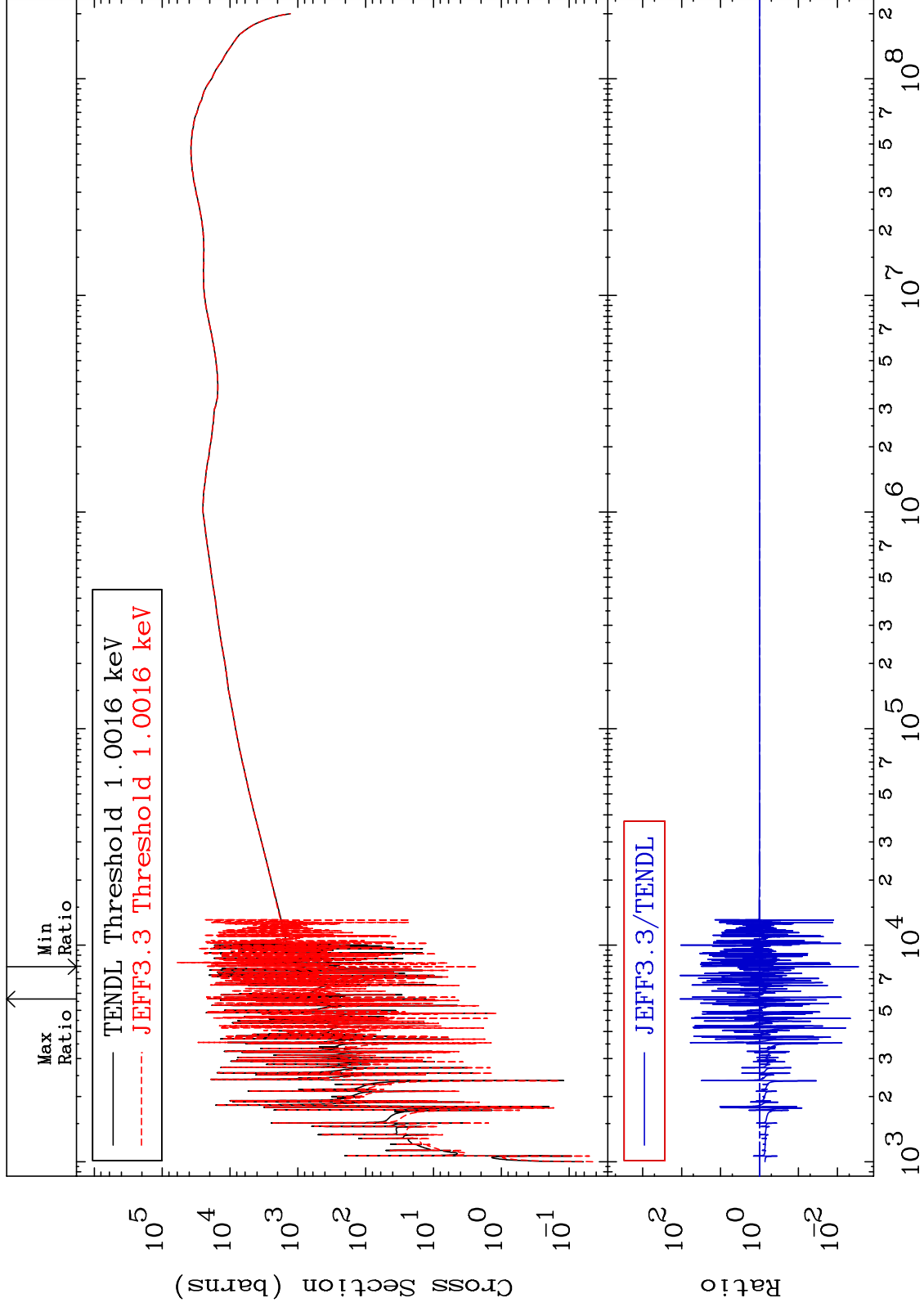
75

70-Yb-172

MAT 7037

Dpa elastic (mt2)  
Cross Section

70-Yb-172  
-99.71 To 9999. %



76

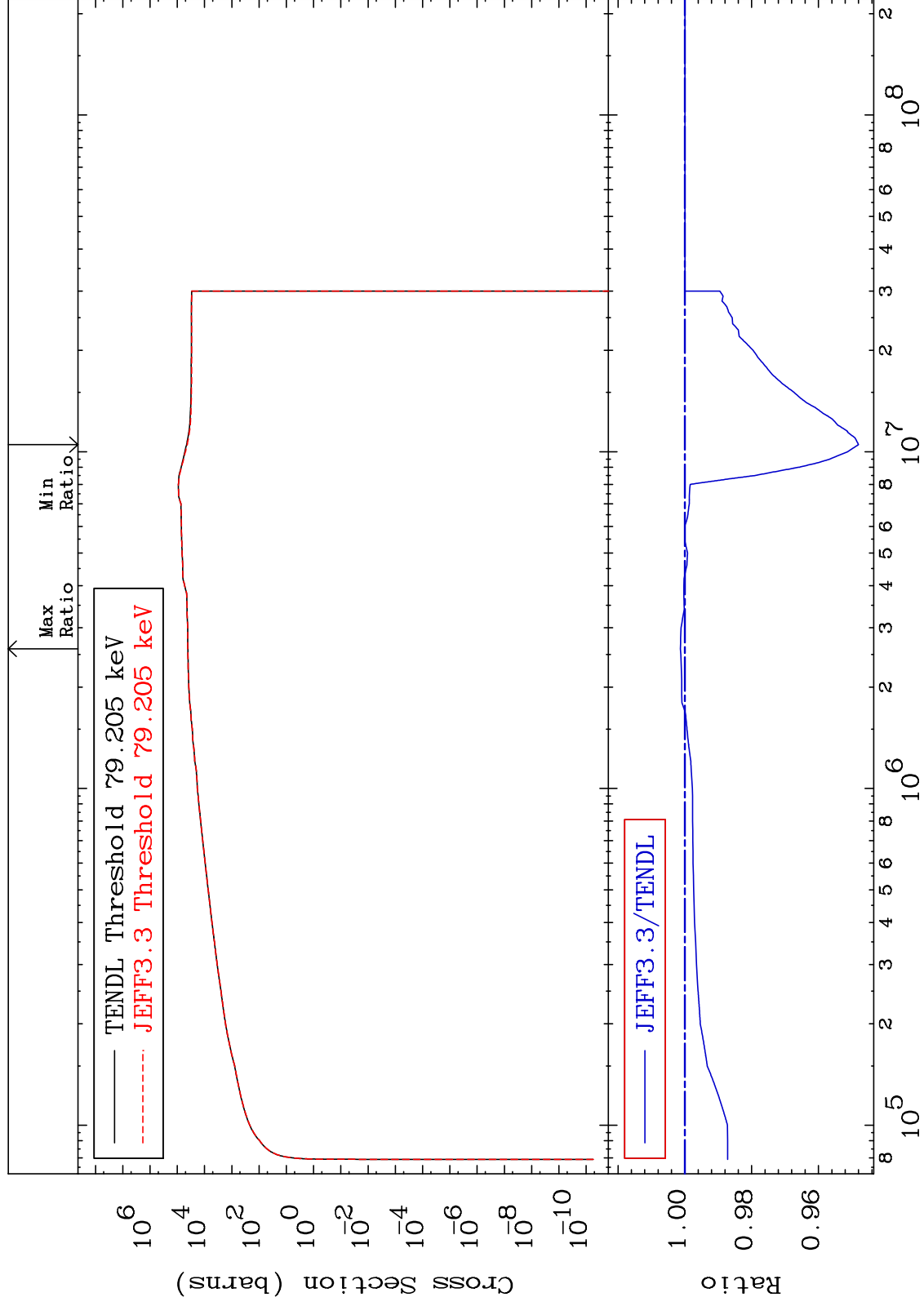
70-Yb-172

70-Yb-172

MAT 7037

Dpa inelastic (mt51-91)  
Cross Section

70-Yb-172  
-5.199 To 0.132 %



77

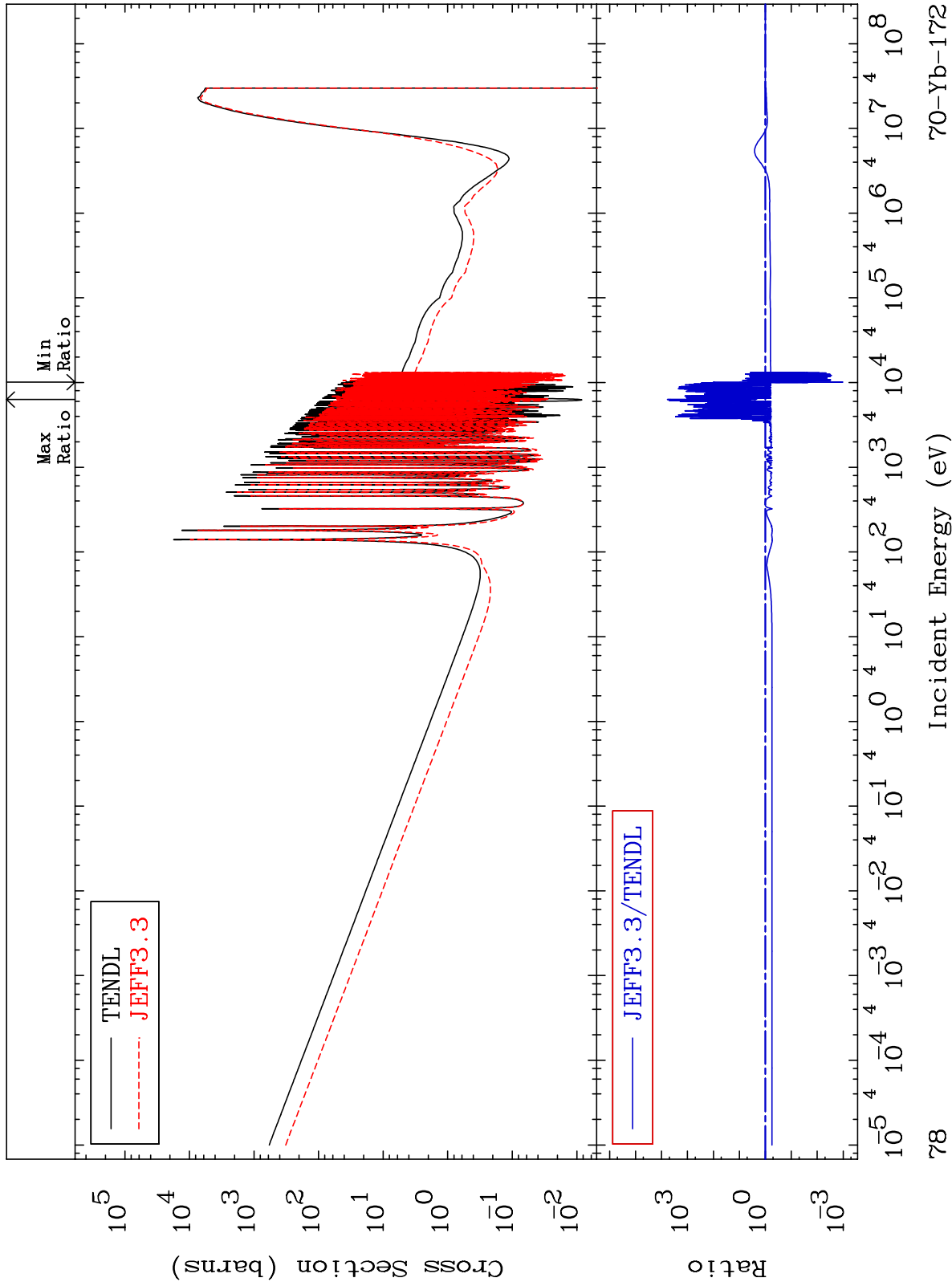
Incident Energy (eV)

70-Yb-172

MAT 7037

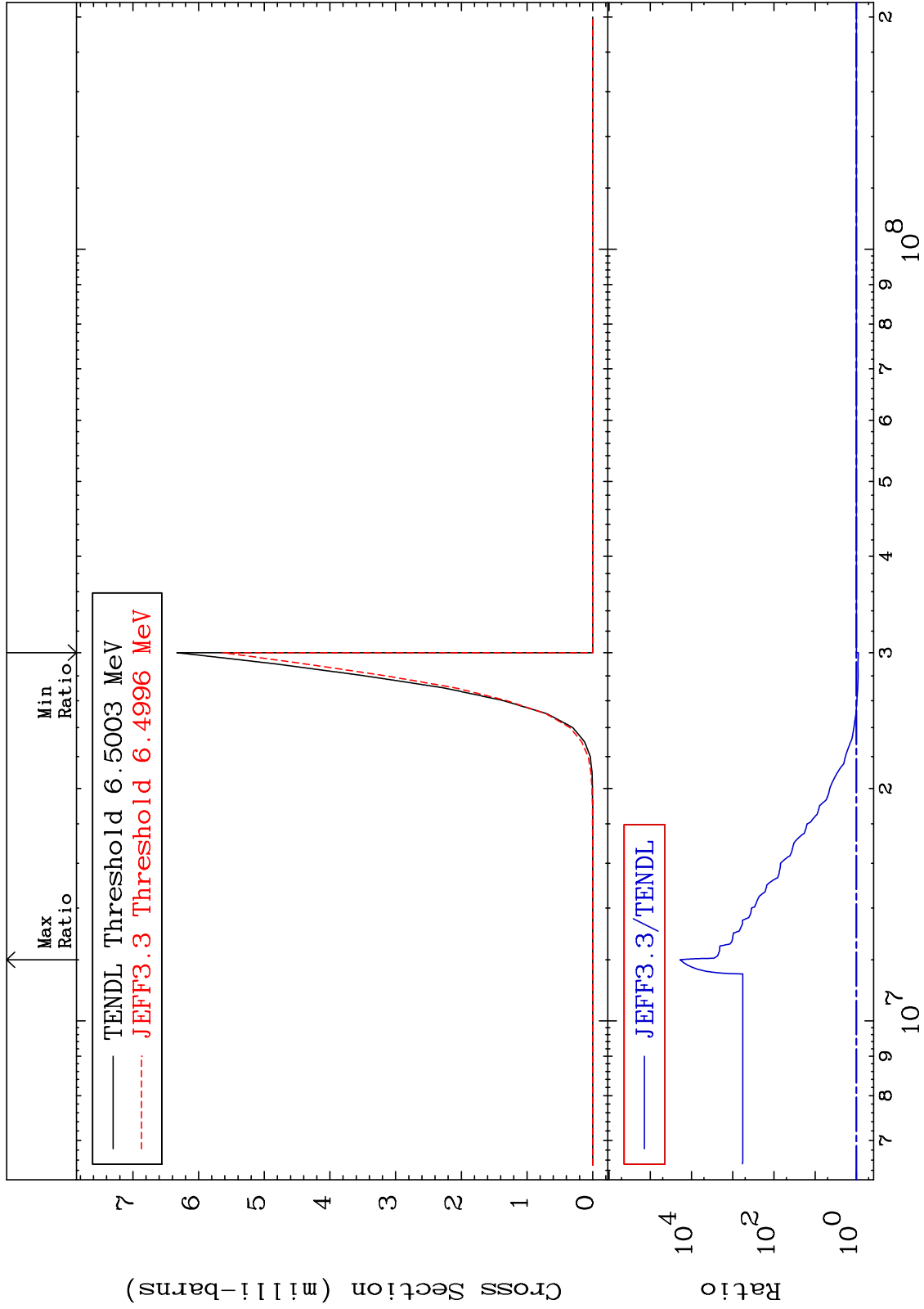
Dpa disappearance (mt102 -120)  
Cross Section

70-Yb-172  
-99.90 To 9999. %



MAT 7037

(n,2n)  $\alpha$ :68-Er-167g 70-Yb-172  
Radionuclide Production Cross Section -11.08 To 9999. %



79

Incident Energy (eV)

70-Yb-172

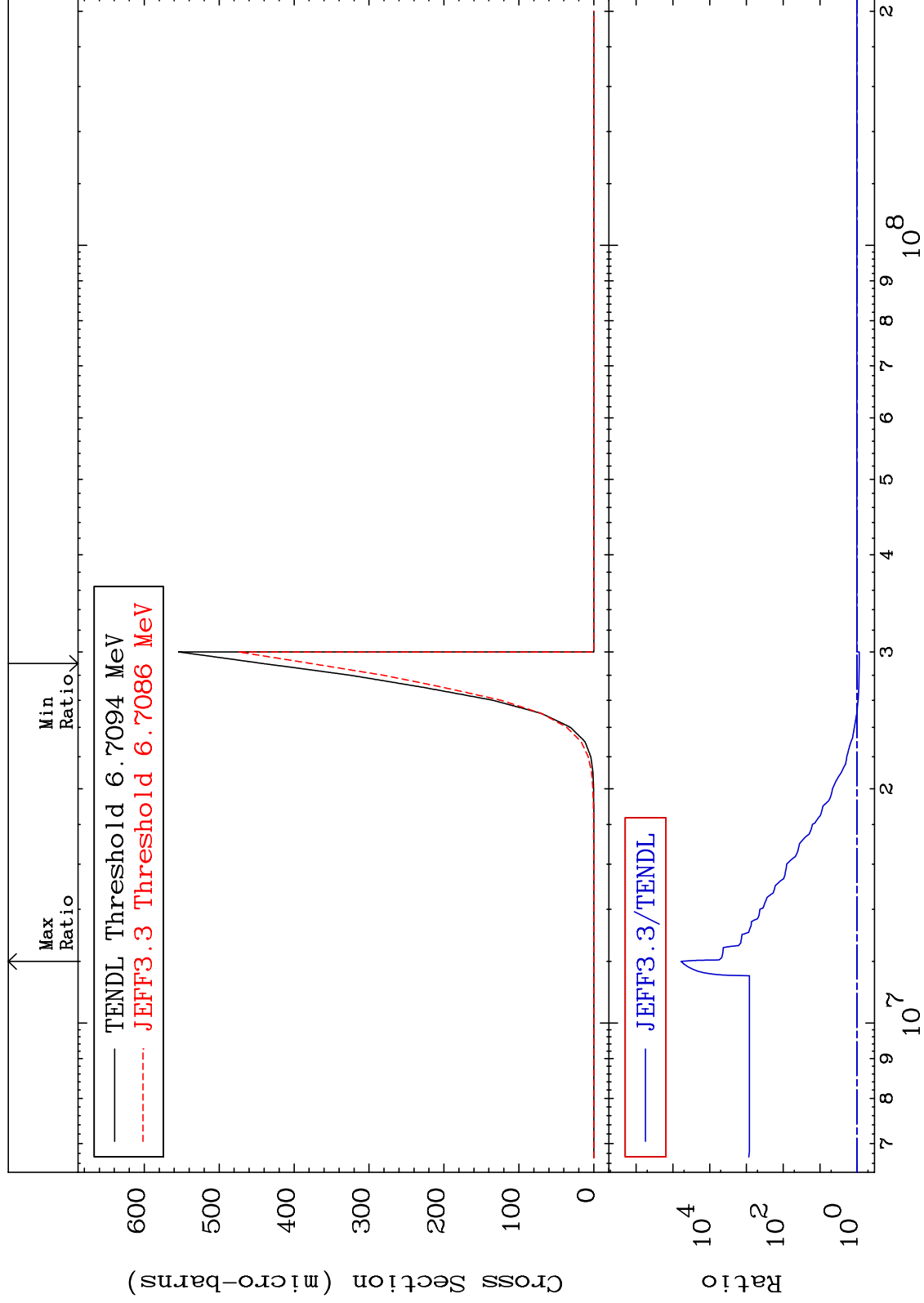


MAT 7037

(n,2n)  $\alpha$ : 68-Er-167m3

70-Yb-172

Radionuclide Production Cross Section -14.54 To 9999. %



80

Incident Energy (eV)

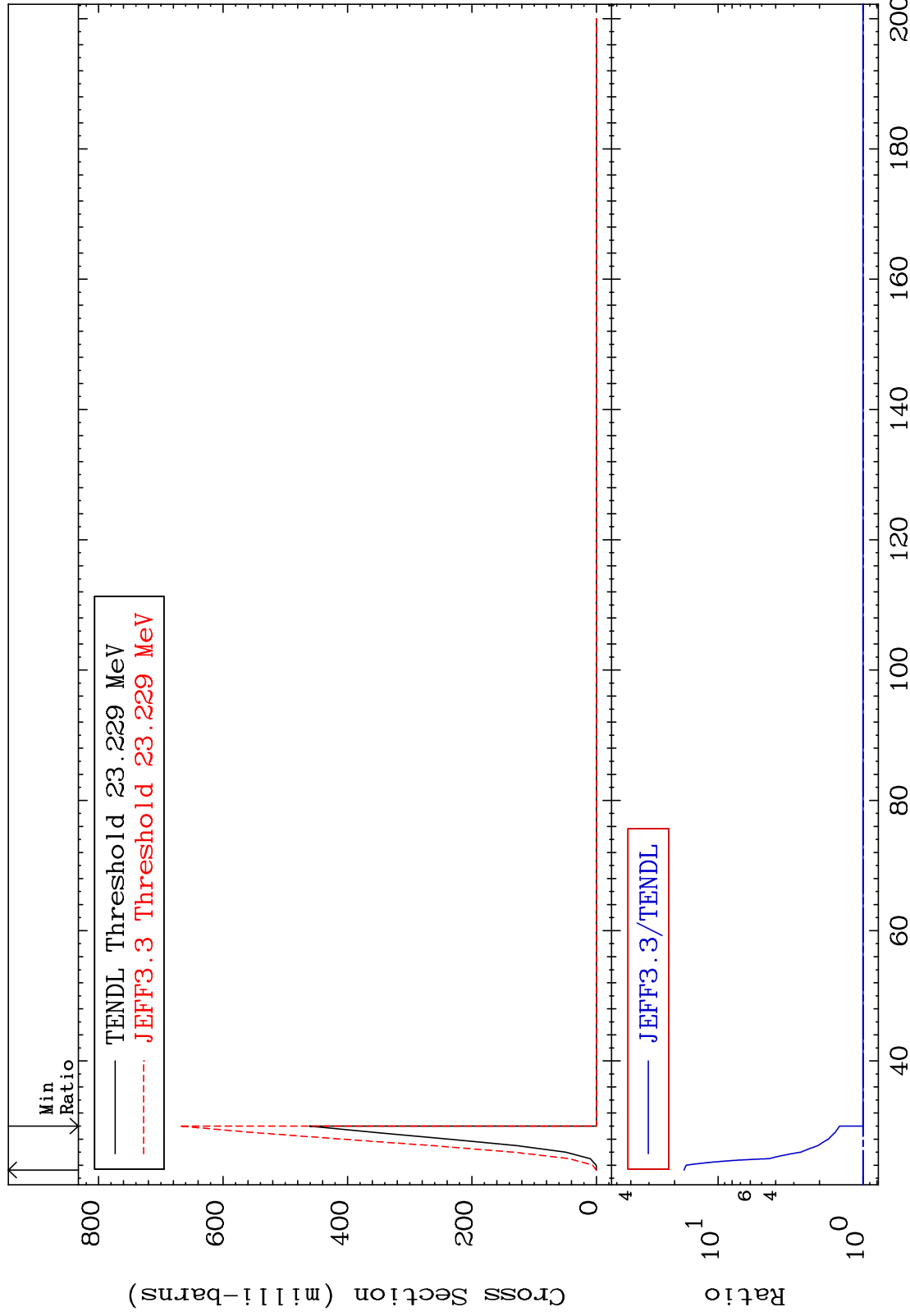
70-Yb-172

MAT 7037

(n,4n):70-Yb-169g

70-Yb-172

Radionuclide Production Cross Section 0.000 To 1618. %

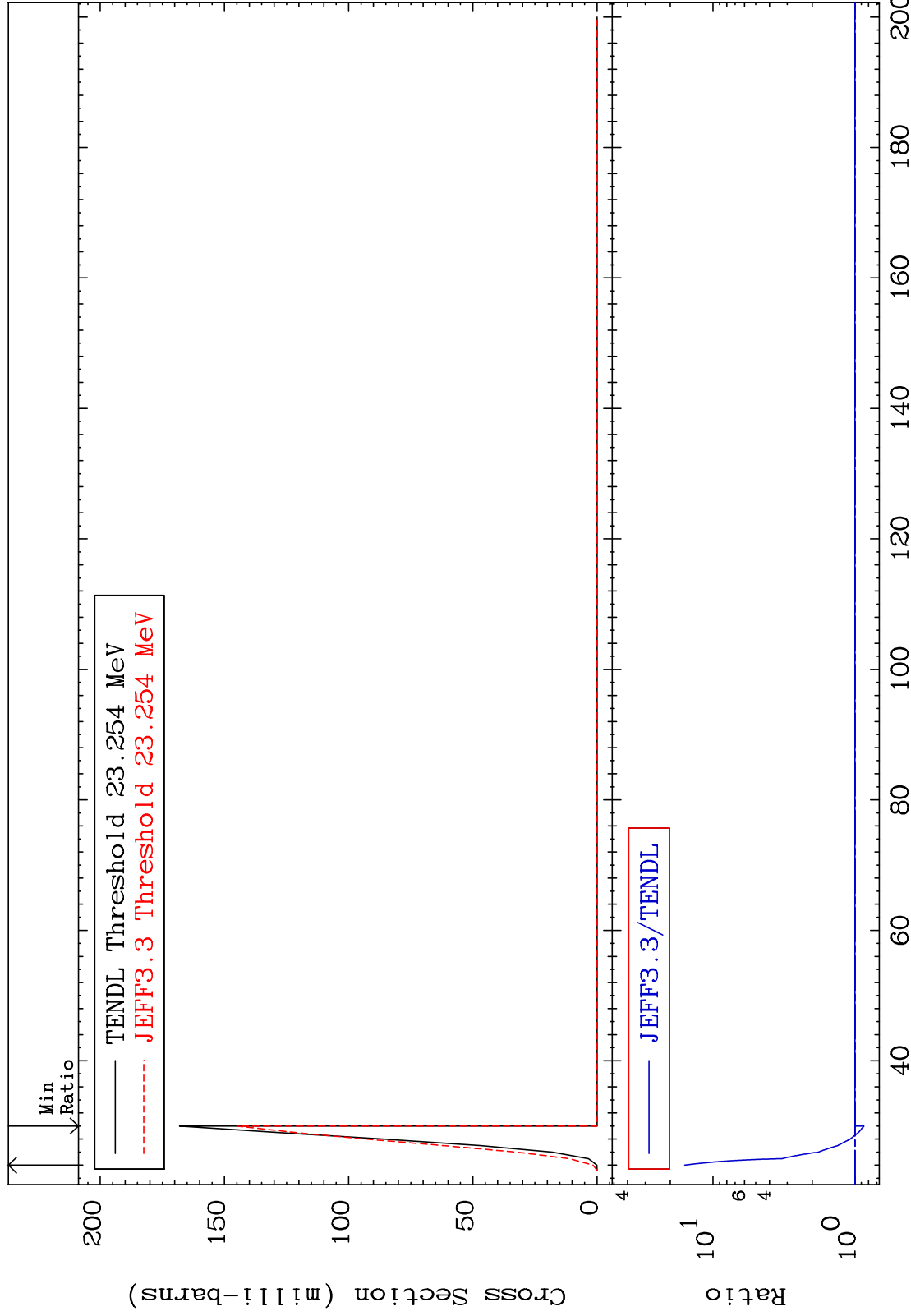


MAT 7037

(n, 4n): 70-Yb-169m1

70-Yb-172

Radionuclide Production Cross Section -13.72 To 1482. %



82

Incident Energy (MeV)

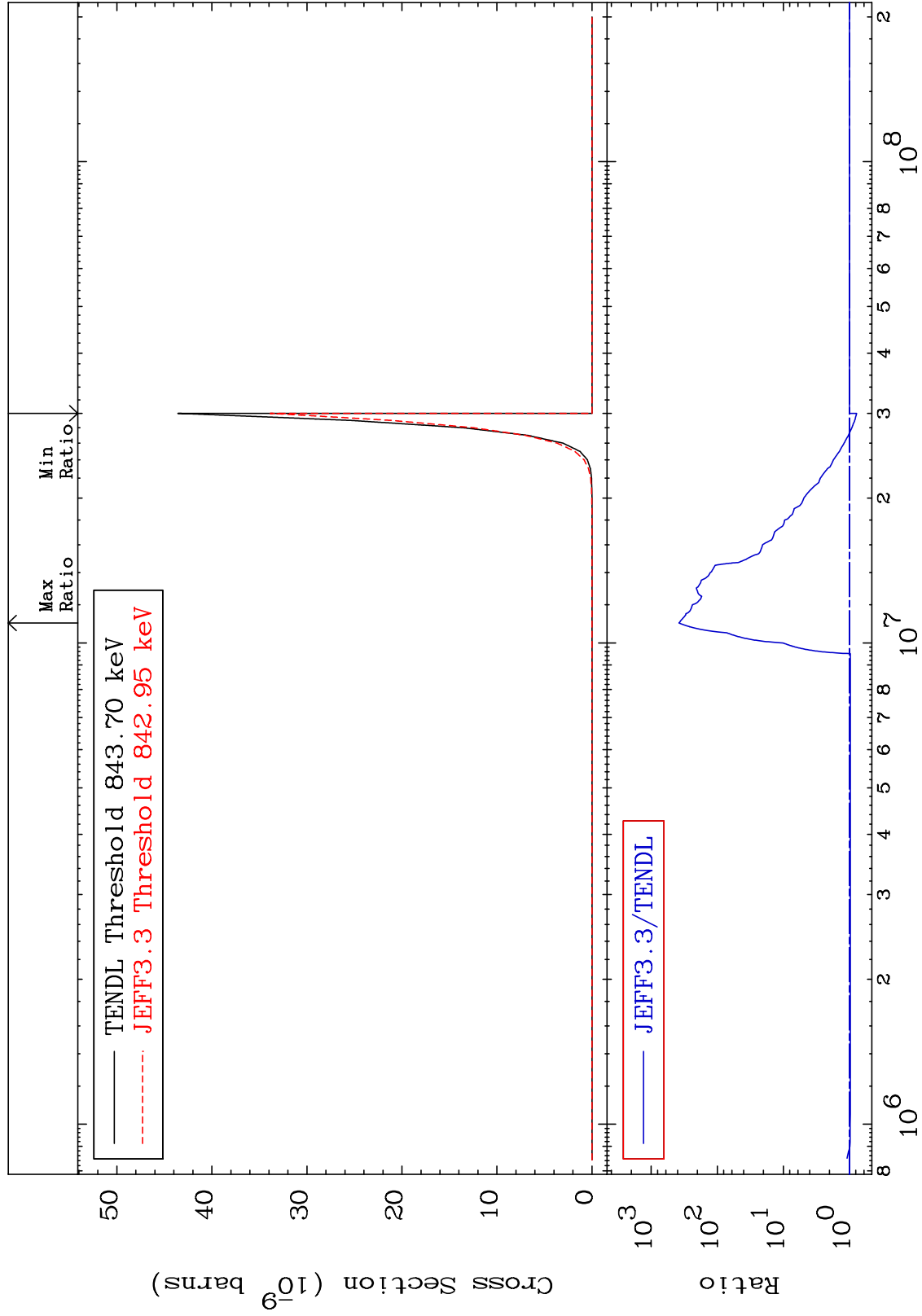
70-Yb-172

MAT 7037

(n, p)  $\alpha$ : 67-Ho-168g

70-Yb-172

Radionuclide Production Cross Section -22.29 To 9999. %



83

Incident Energy (eV)

70-Yb-172

MAT 7037

(n, p)  $\alpha$ :67-Ho-168m1

70-Yb-172

Radionuclide Production Cross Section

-33.14 To 9999. %

