

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

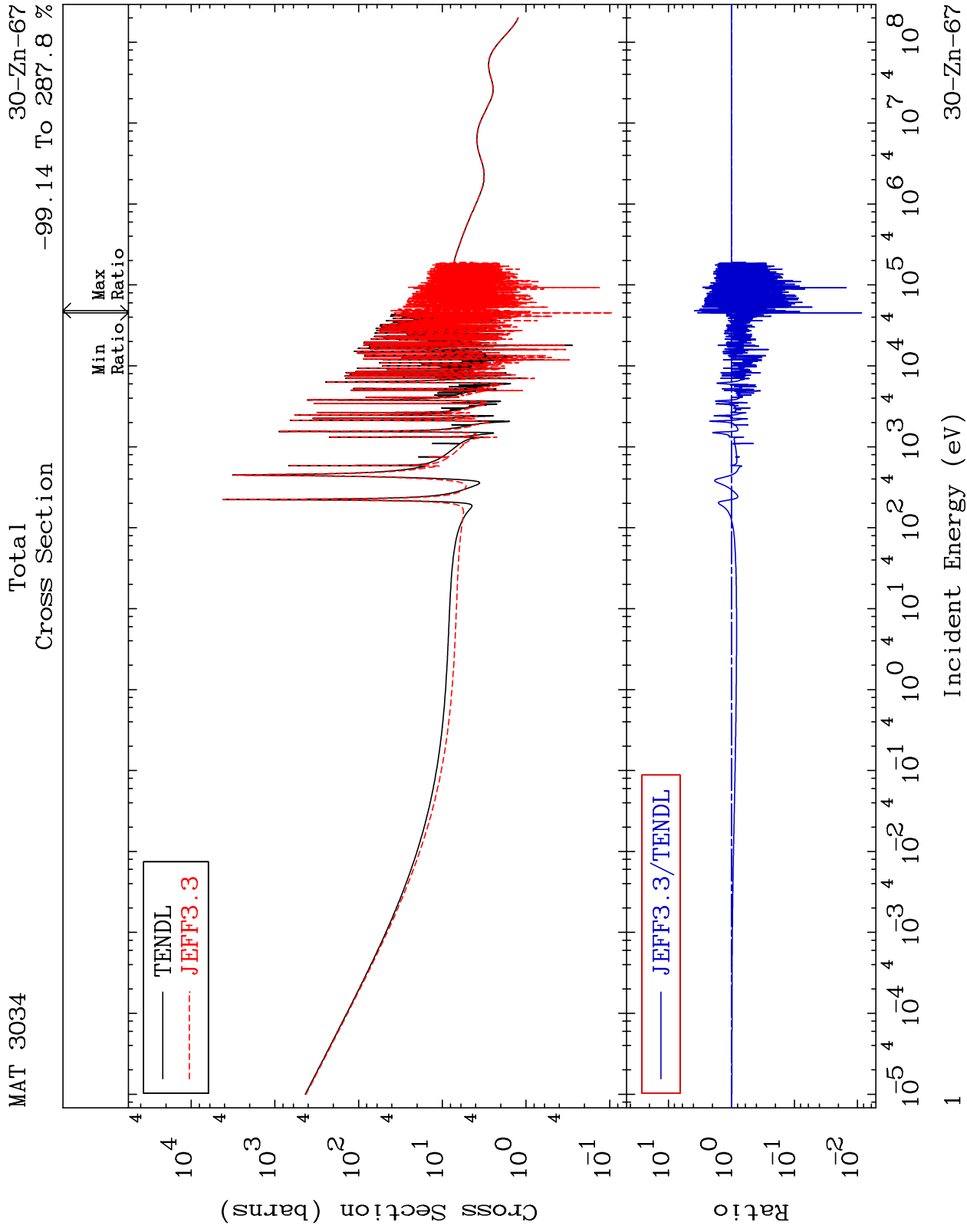
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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

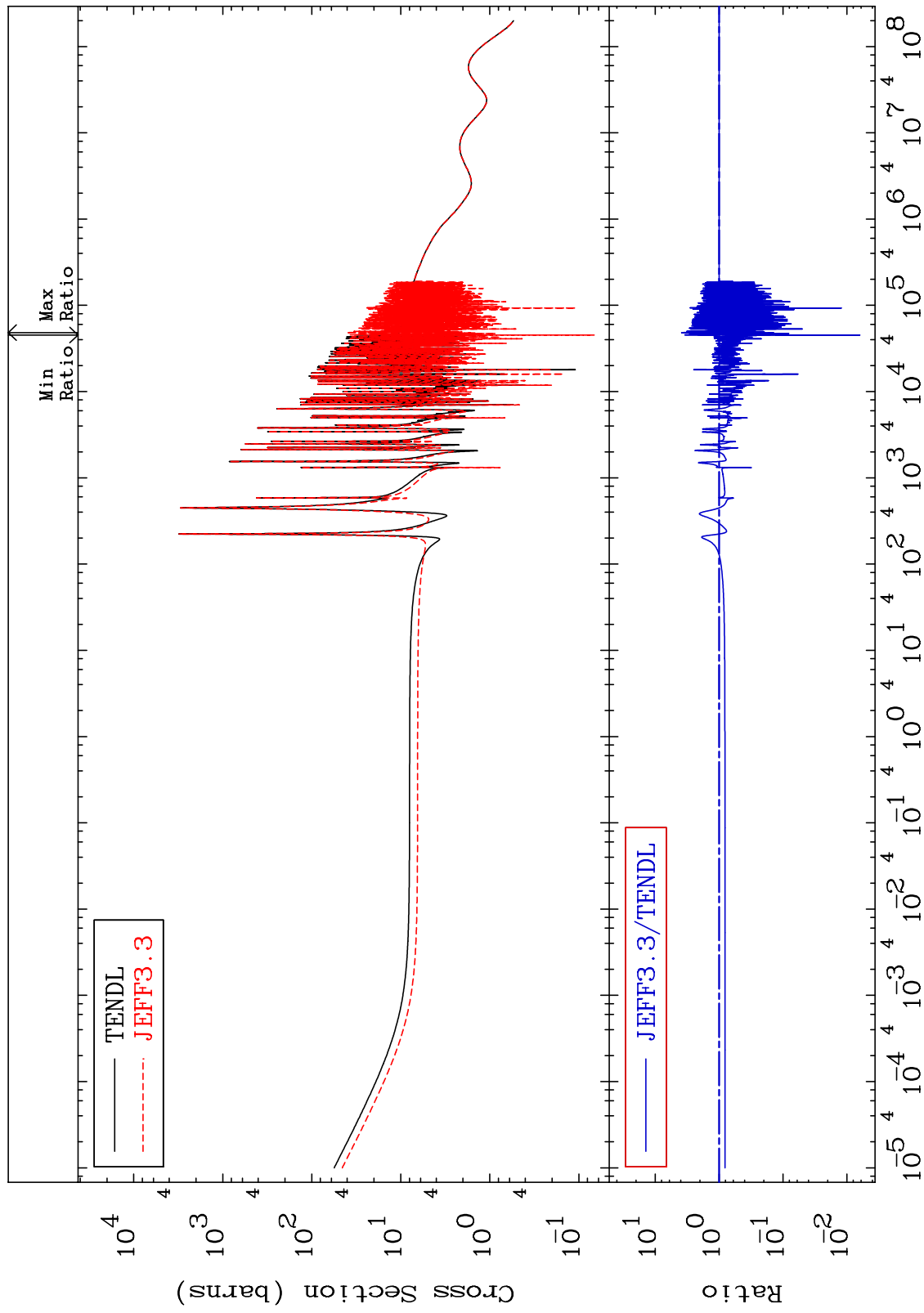
Press Mouse Button to Start



MAT 3034

Elastic  
Cross Section

30-Zn-67  
-99.37 To 288.9 %



2

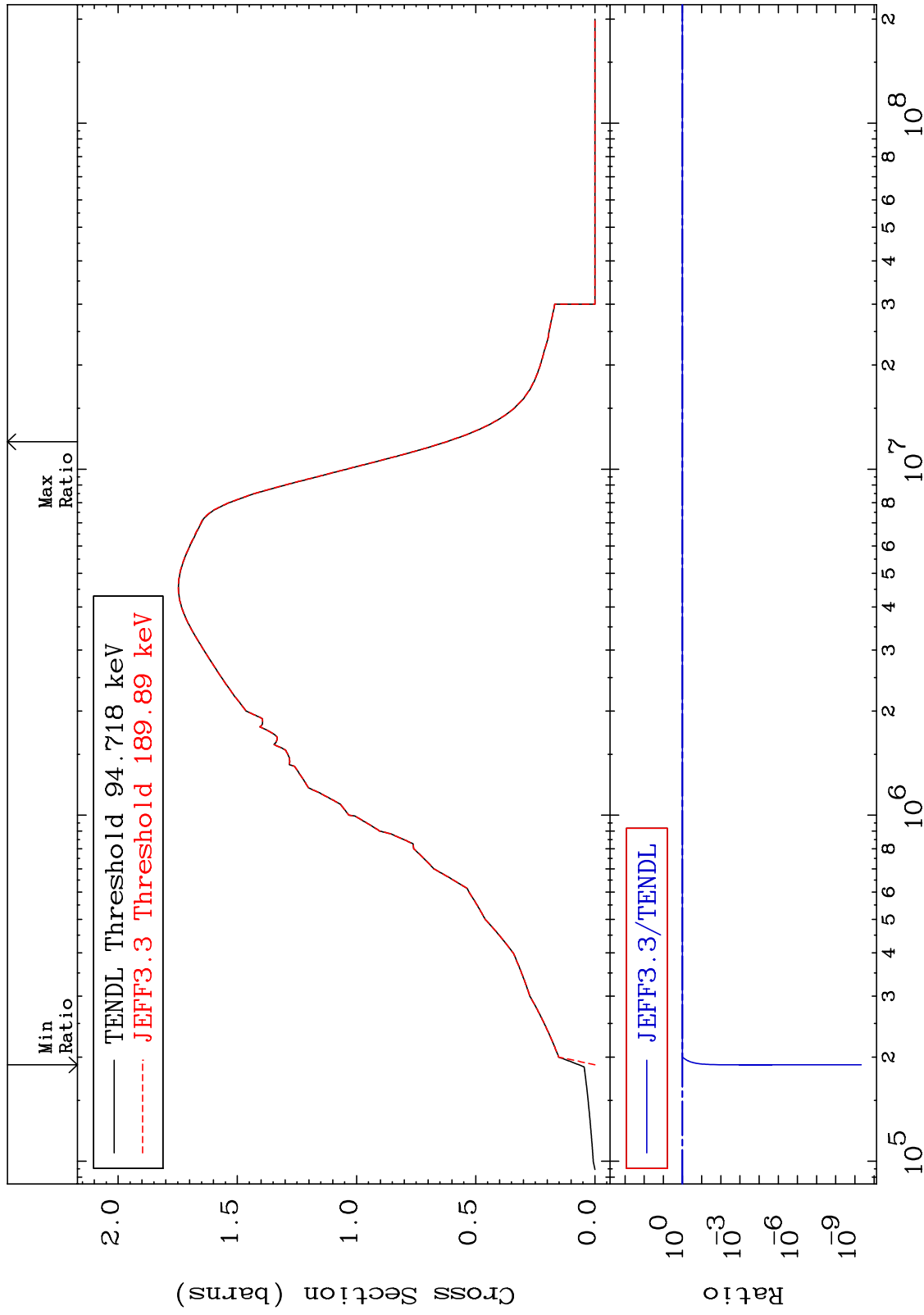
Incident Energy (eV)

30-Zn-67

MAT 3034

Inelastic  
Cross Section

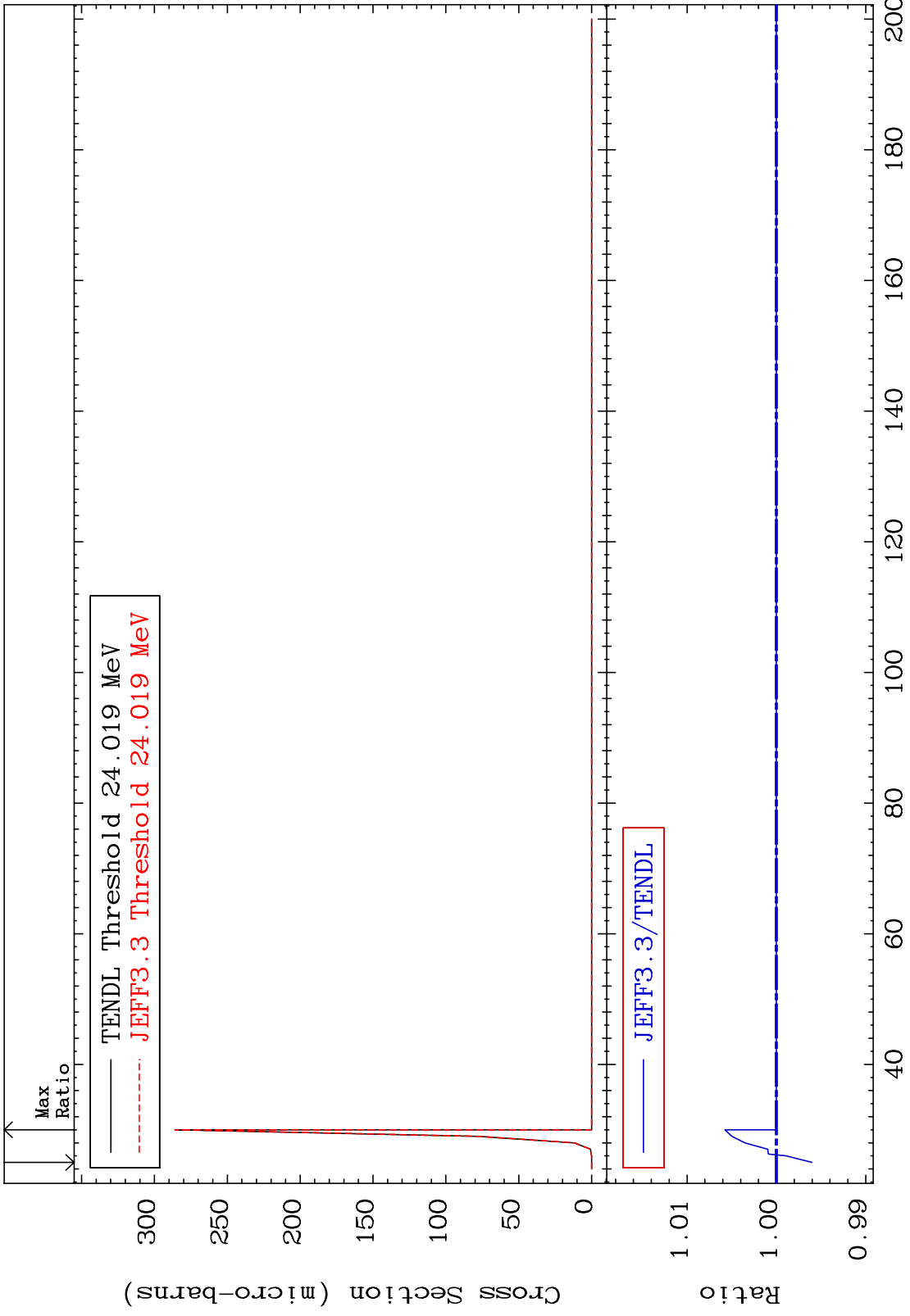
30-Zn-67  
-100.0 To 0.286 %



30-Zn-67

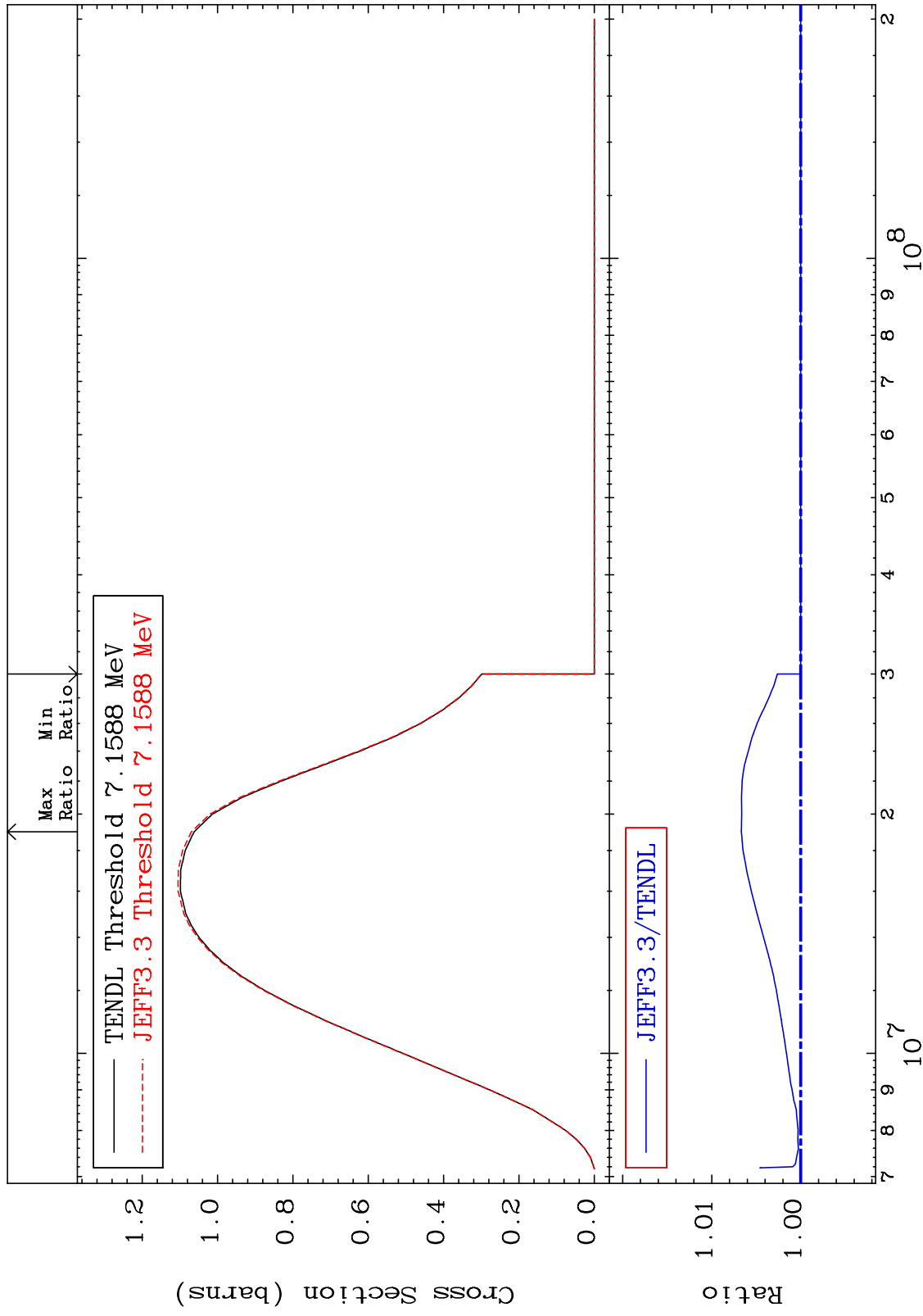
3

MAT 3034 (n,2n) d 30-Zn-67  
Cross Section -0.399 To 0.575 %



MAT 3034

(n,2n) Cross Section 30-Zn-67 To 0.667 %

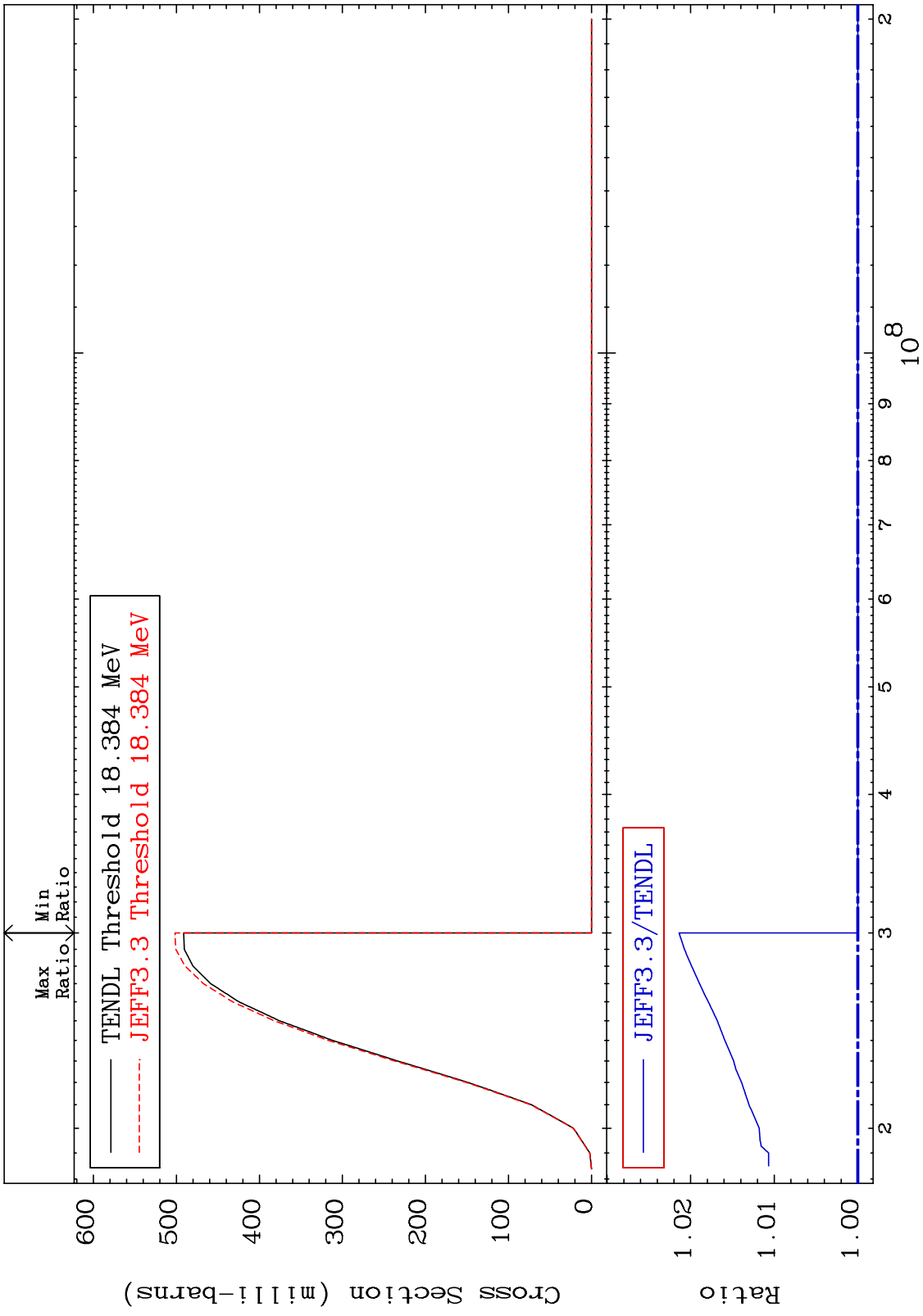


5

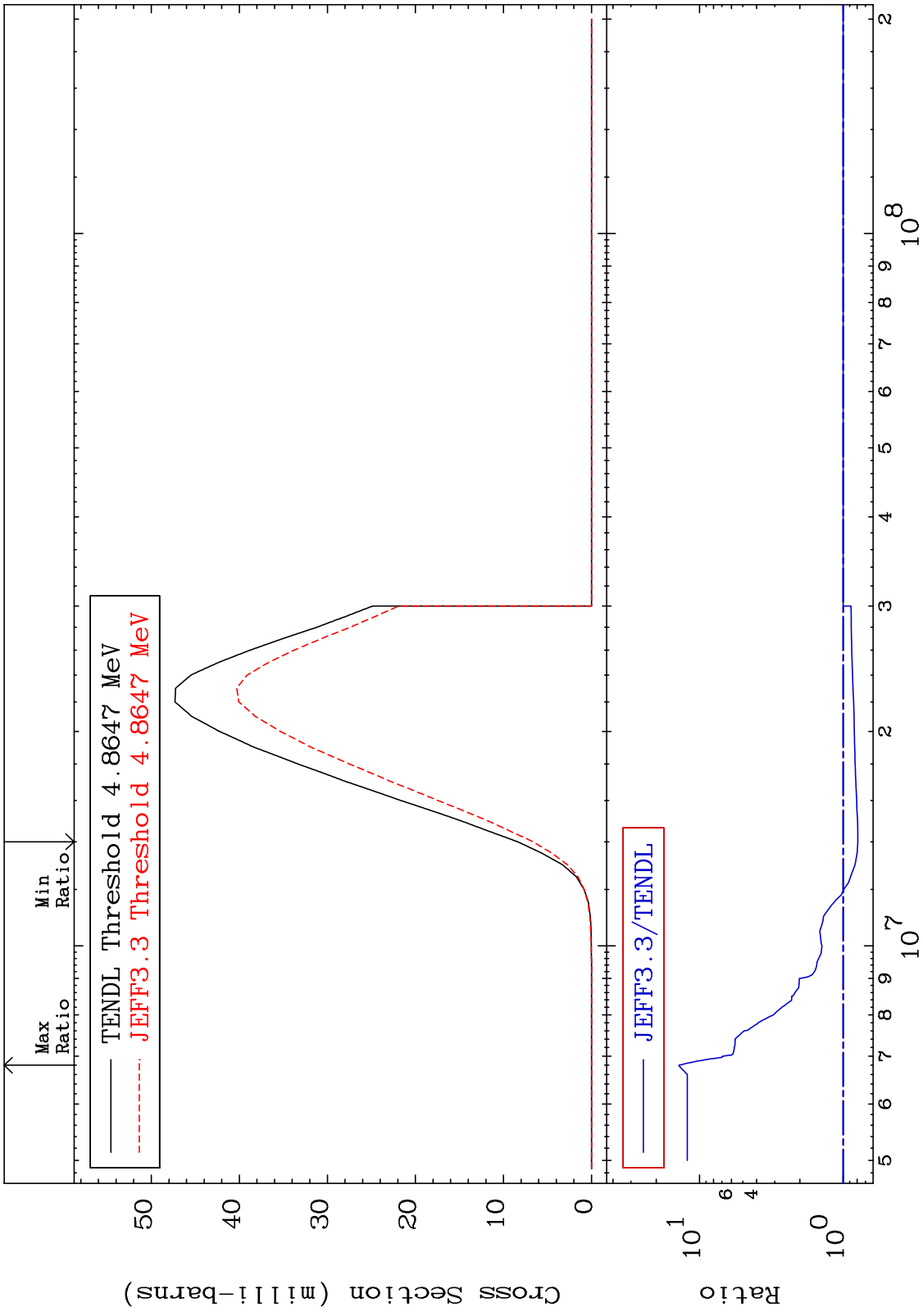
Incident Energy (eV)

30-Zn-67

MAT 3034 (n,3n) Cross Section 30-Zn-67 To 2.139 %



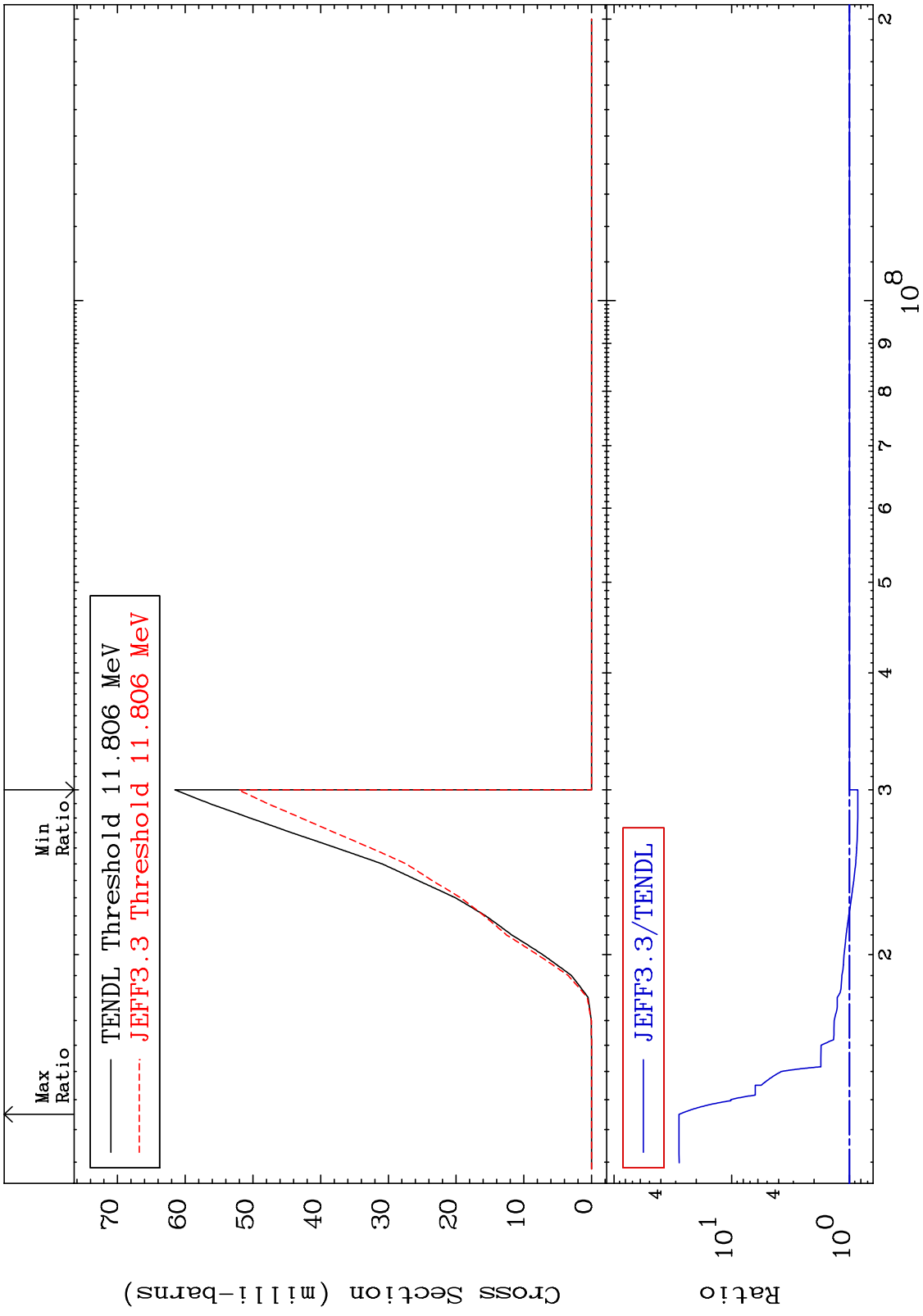
MAT 3034  $(n, n') \alpha$  30-Zn-67  
 Cross Section -20.96 To 1288. %

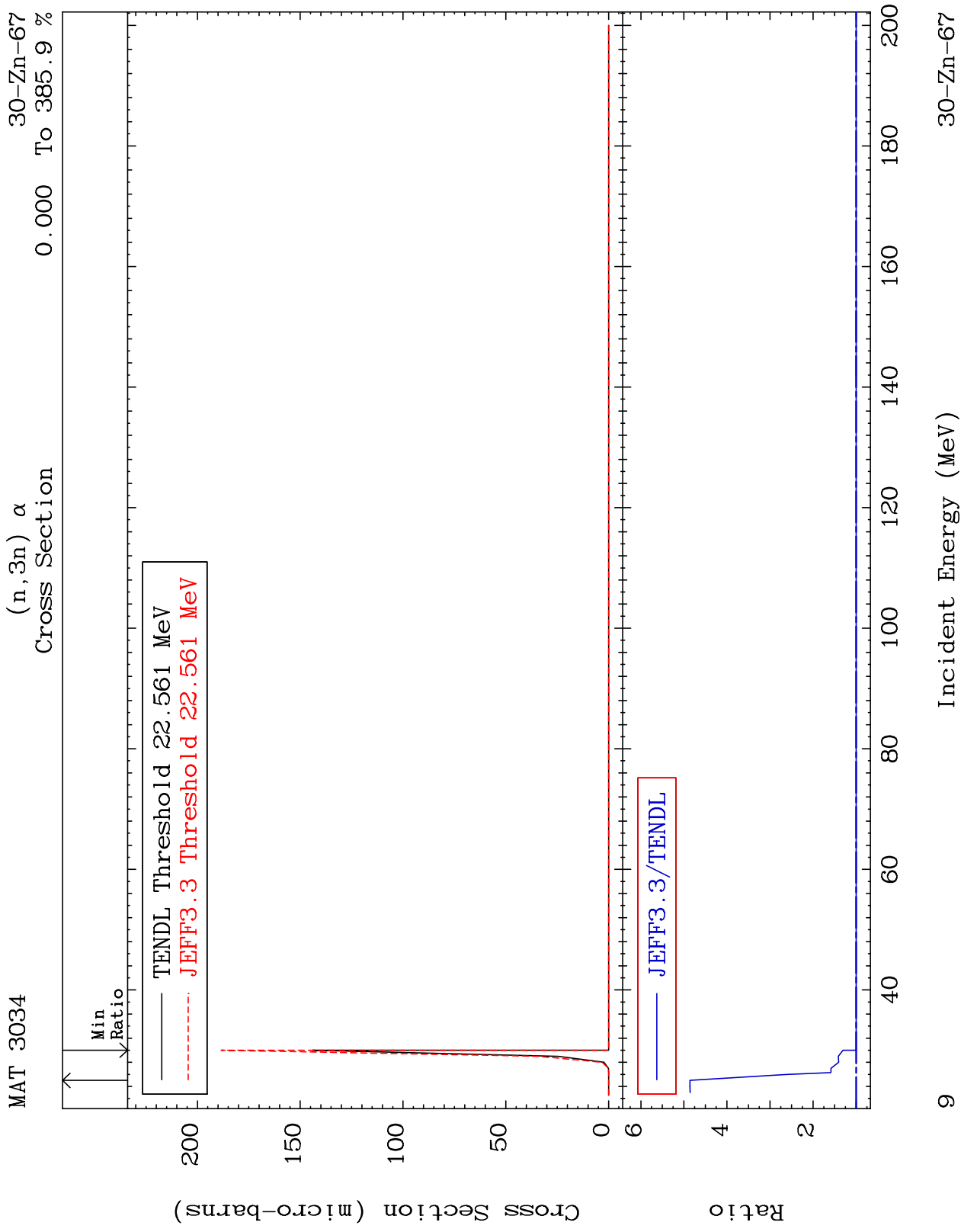


7 30-Zn-67 Incident Energy (eV)



MAT 3034 (n,2n)  $\alpha$  30-Zn-67  
 Cross Section -15.21 To 2705. %





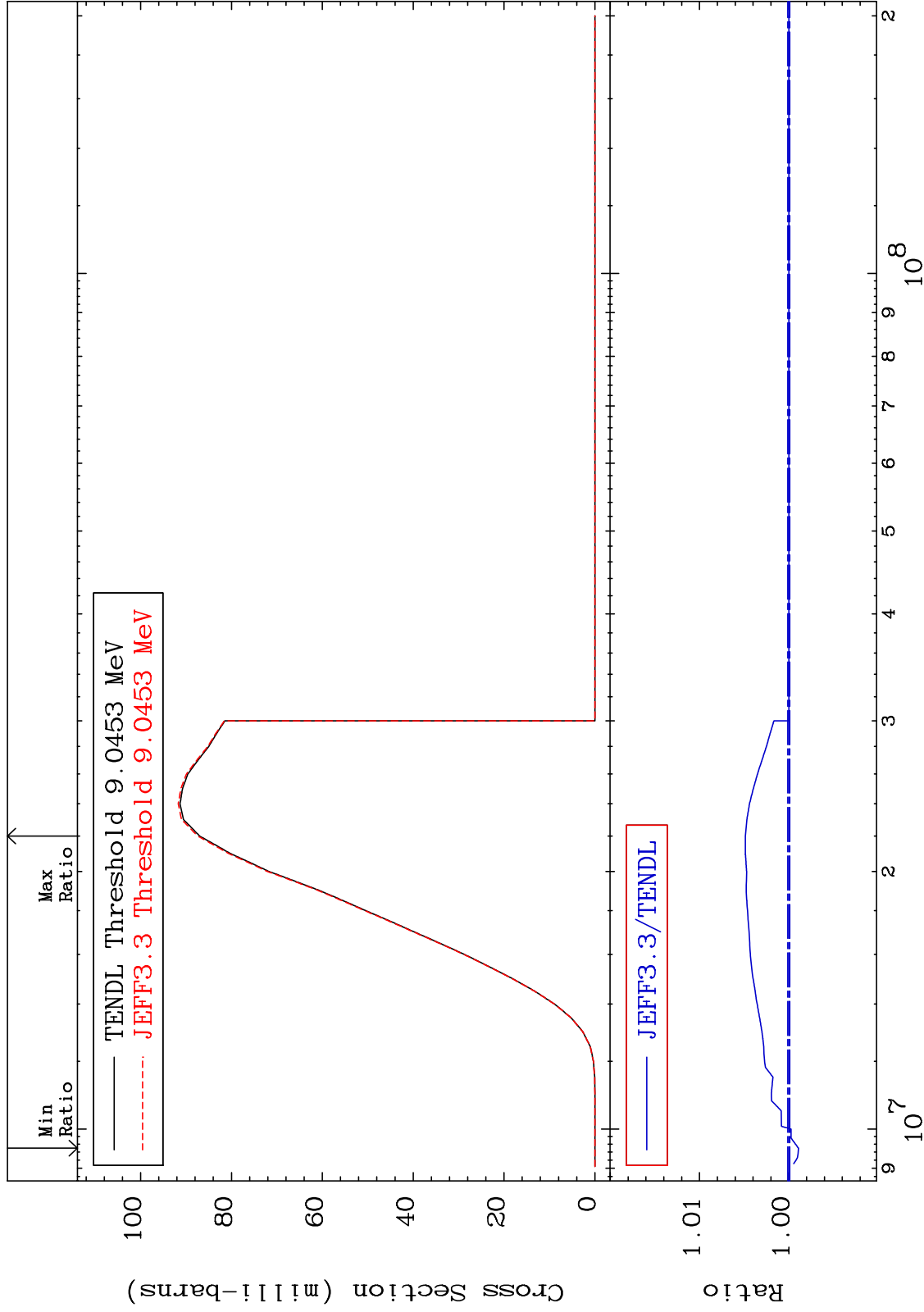
MAT 3034

(n,n') p

30-Zn-67

Cross Section

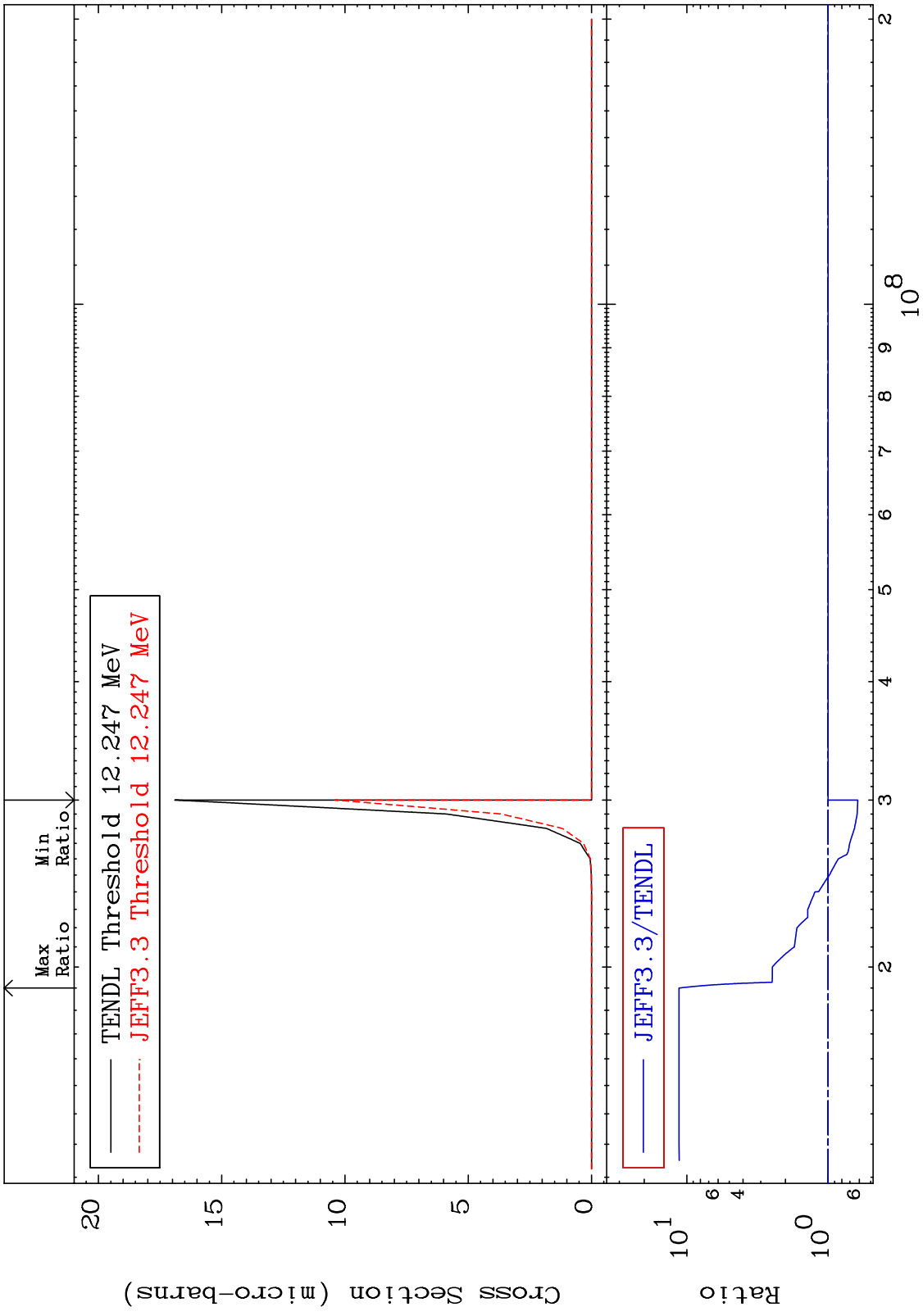
-0.108 To 0.486 %



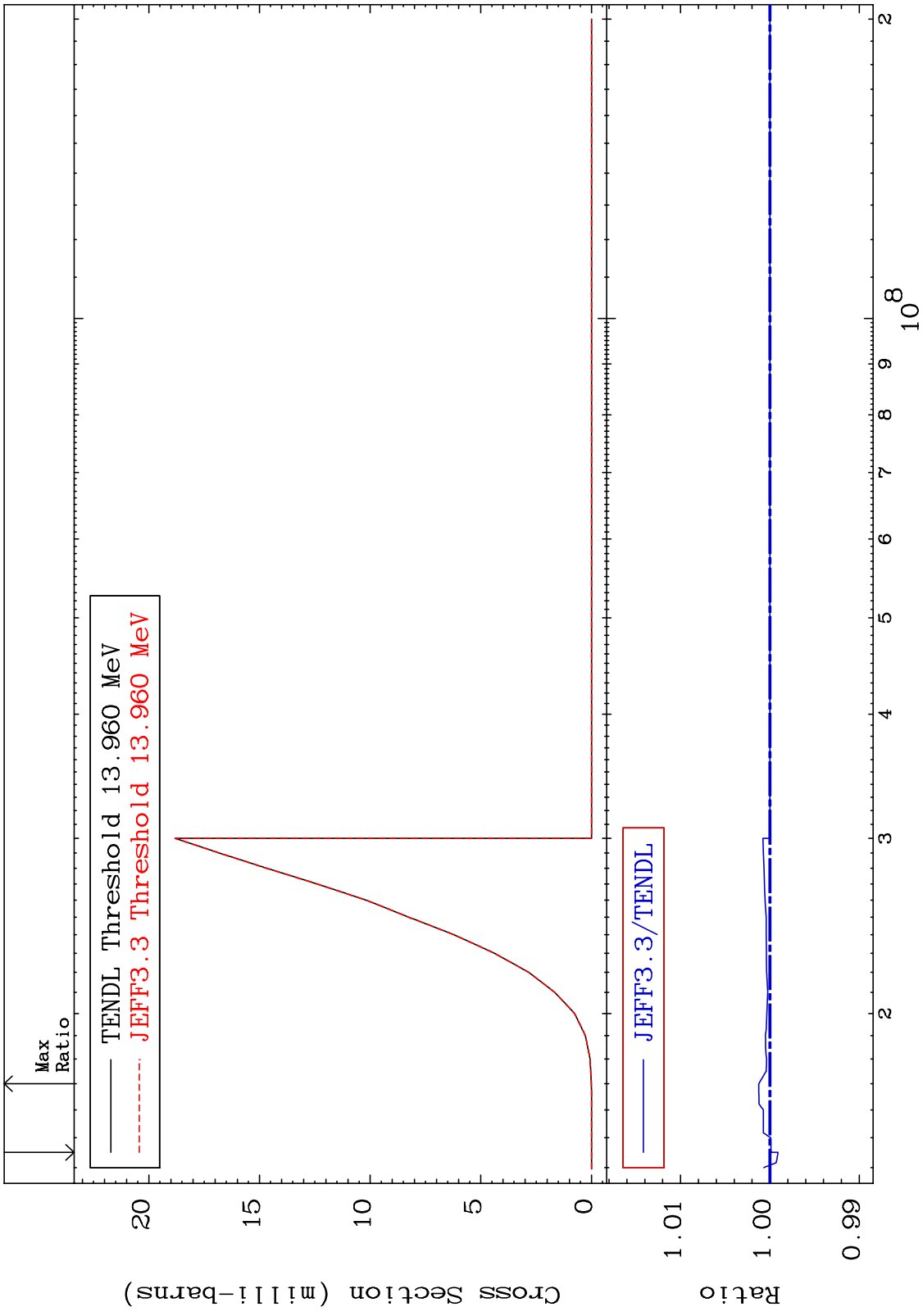
30-Zn-67

Incident Energy (eV)

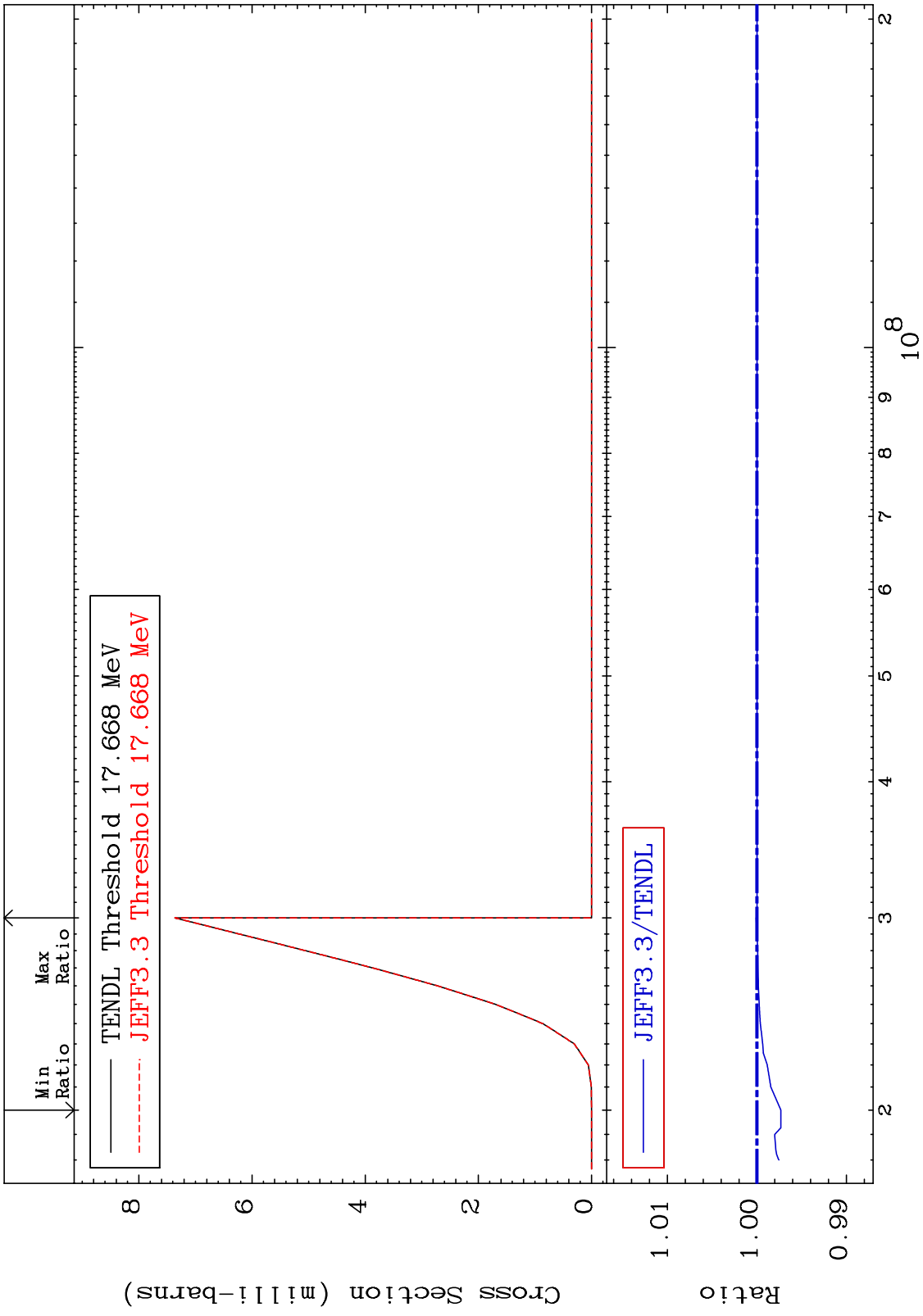
MAT 3034 (n,n') 2α 30-Zn-67  
 Cross Section -38.46 To 1034. %



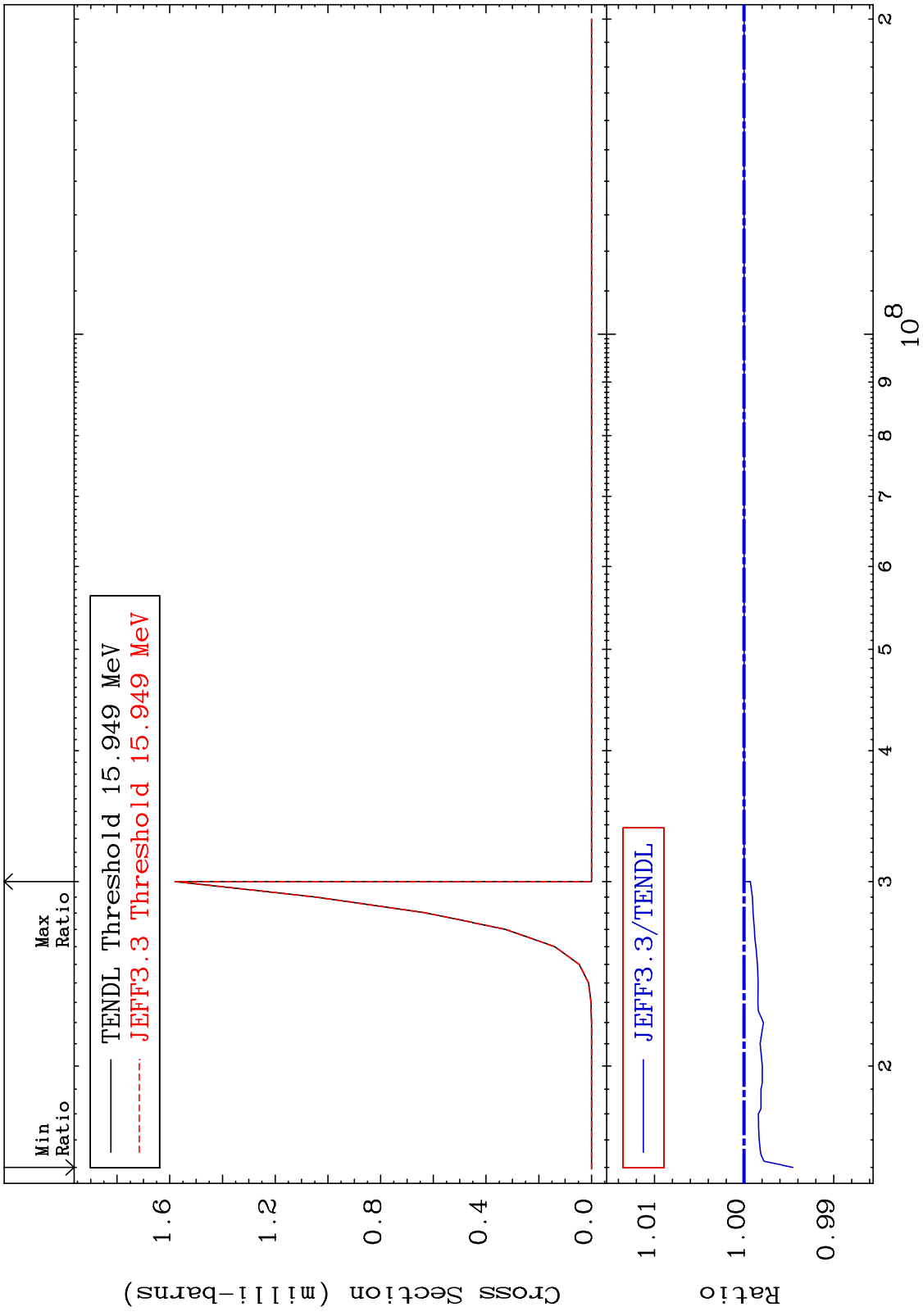
MAT 3034 (n, n') d 30-Zn-67  
 Cross Section -0.091 To 0.124 %



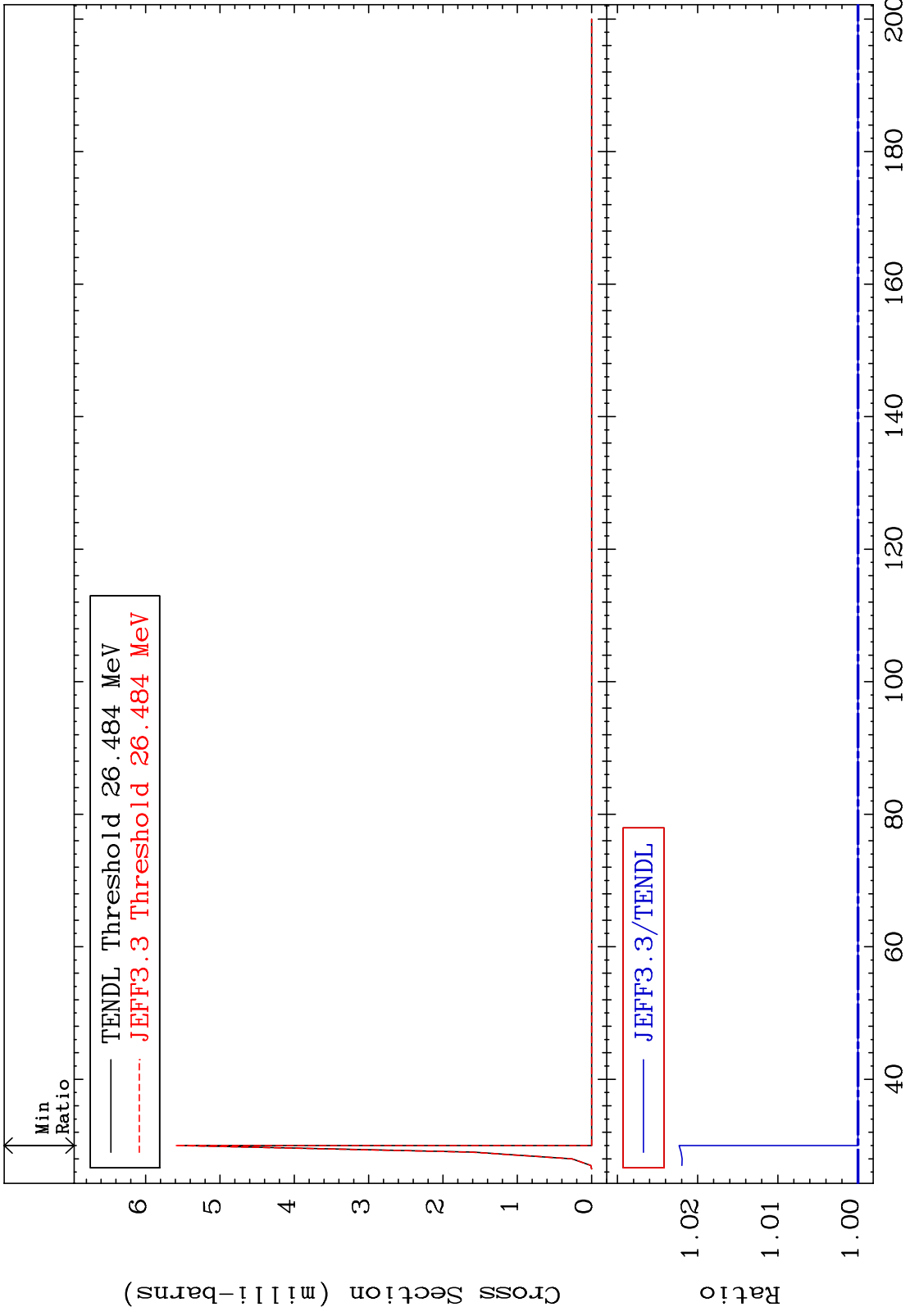
MAT 3034 (n,n') t 30-Zn-67  
 Cross Section -0.267 To 0.009 %



MAT 3034 (n, n') He-3 30-Zn-67  
 Cross Section -0.545 To 0.000 %



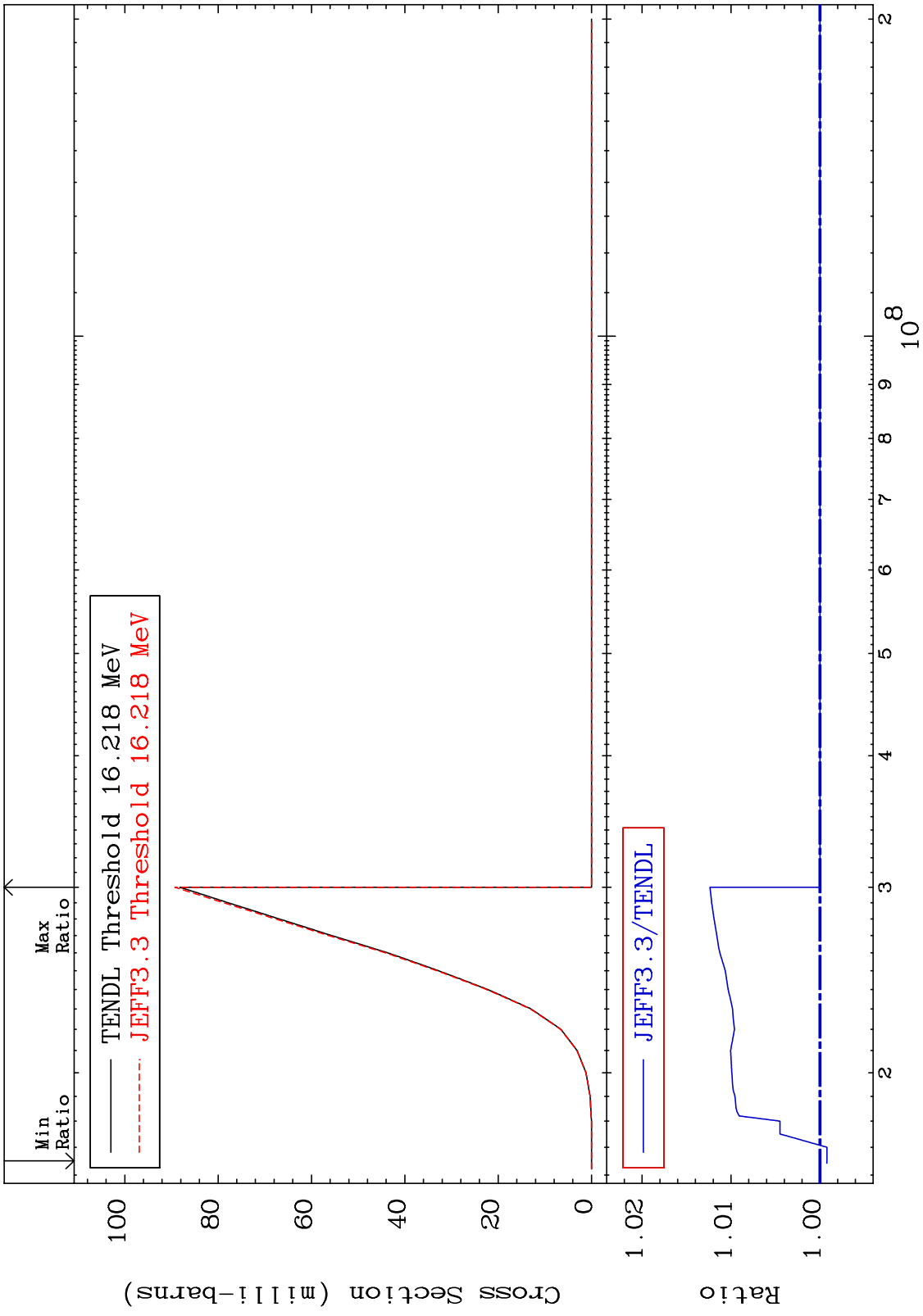
MAT 3034 (n,4n) Cross Section 30-Zn-67 To 2.231 %  
0.000



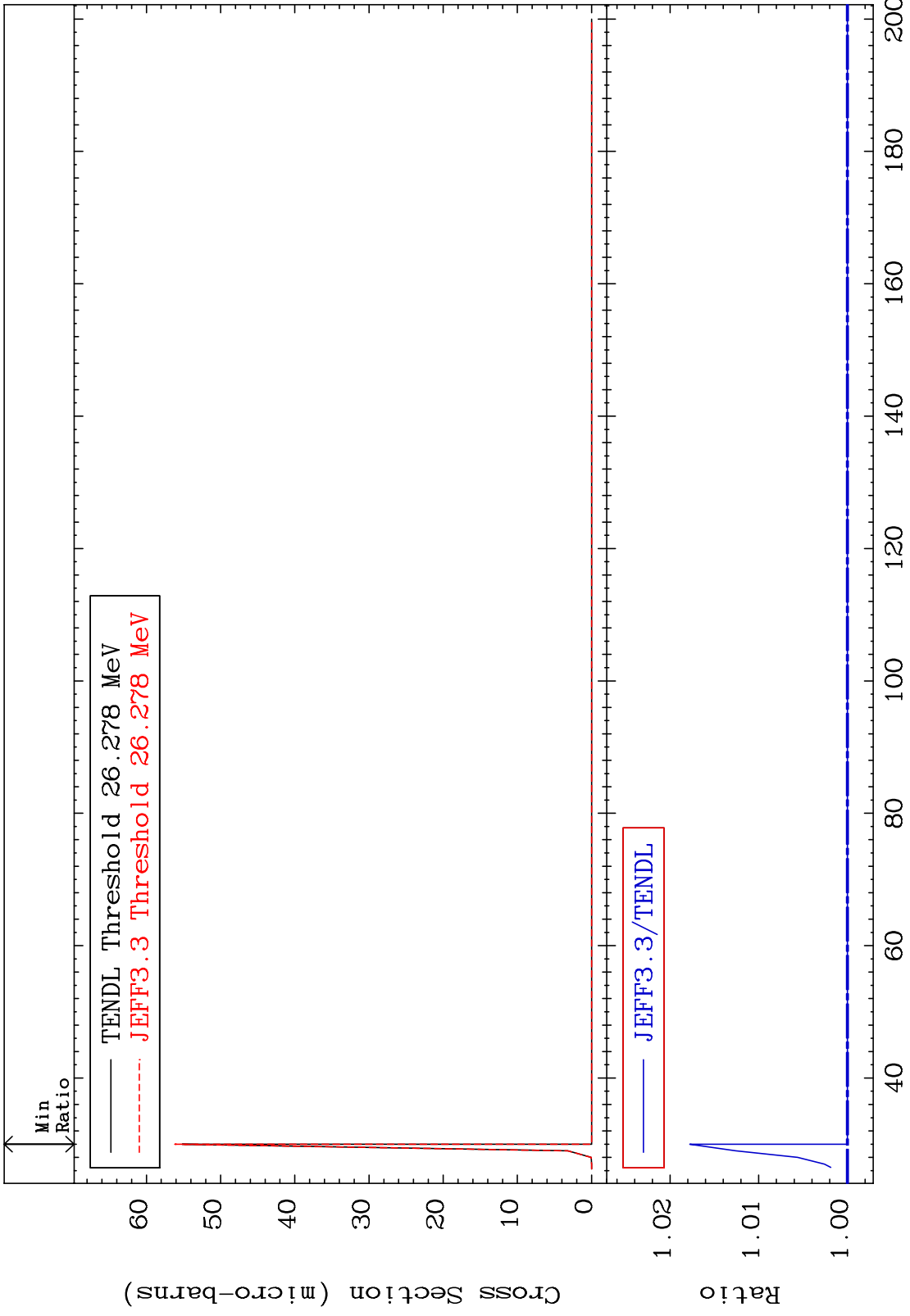
15 30-Zn-67 Incident Energy (MeV)



MAT 3034 (n,2n) p 30-Zn-67  
 Cross Section -0.079 To 1.237 %

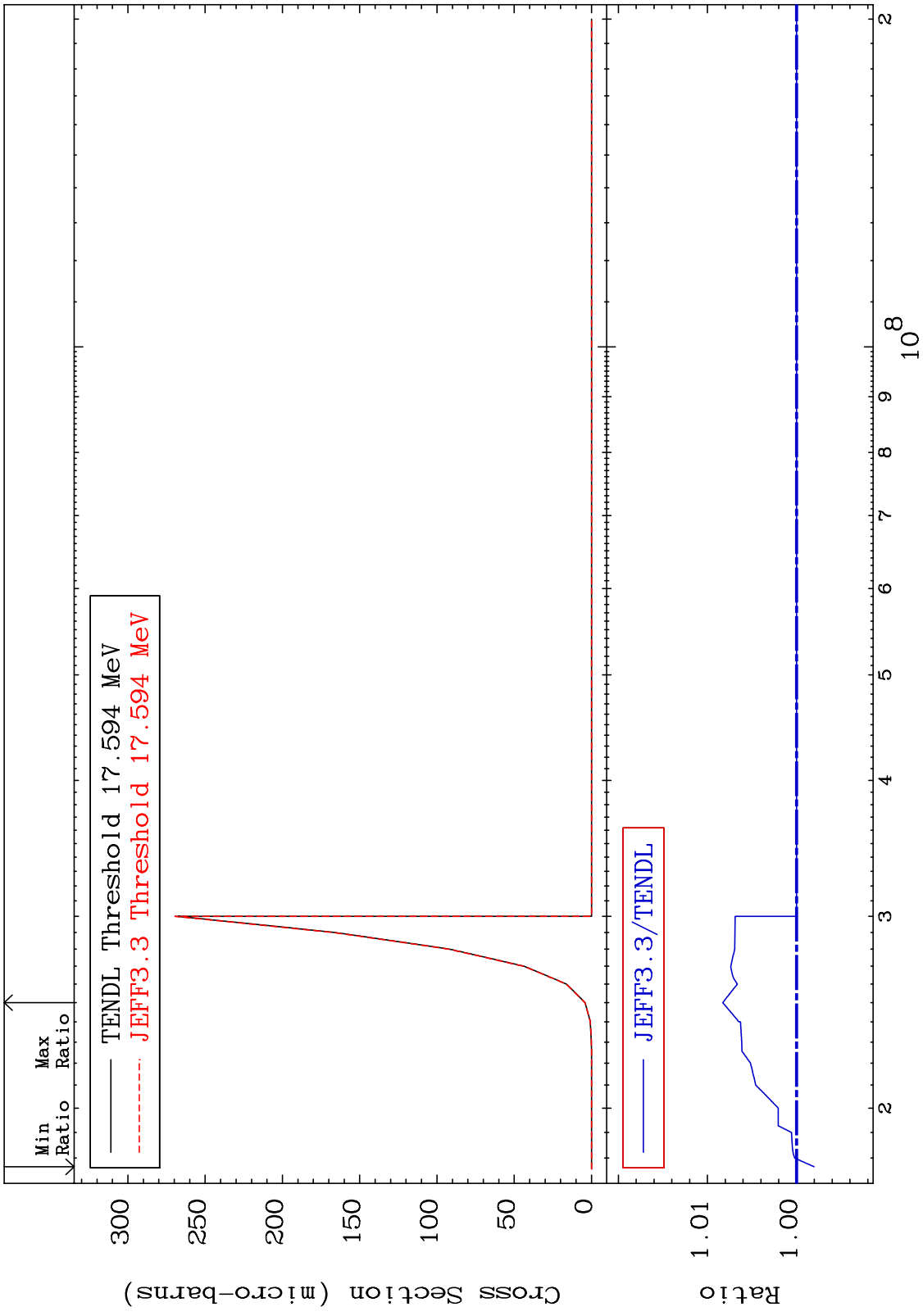


MAT 3034 (n,3n) p 30-Zn-67  
Cross Section 0.000 To 1.779 %

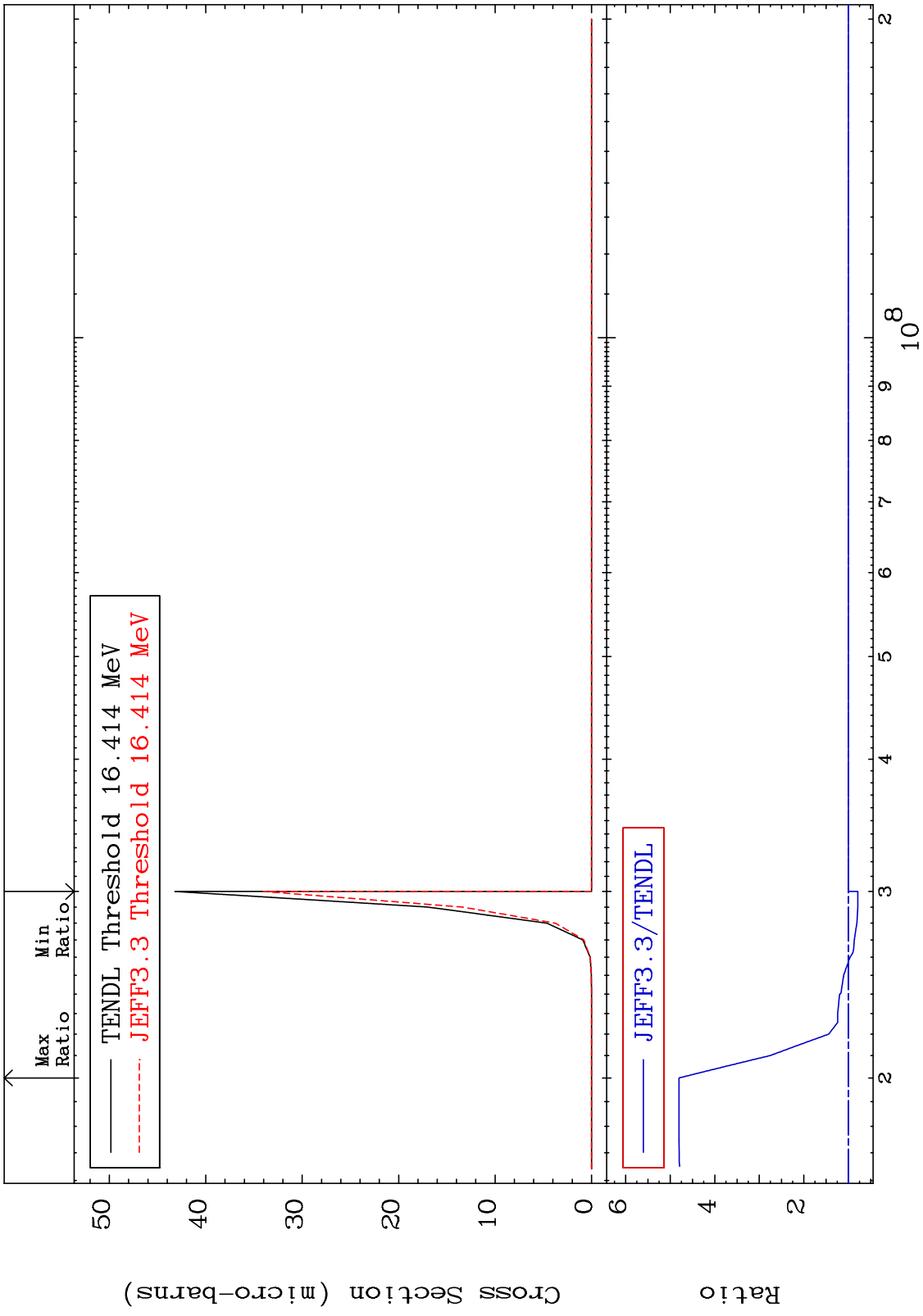


17 30-Zn-67 Incident Energy (MeV)

MAT 3034 (n,2n) p 30-Zn-67  
 Cross Section -0.198 To 0.829 %

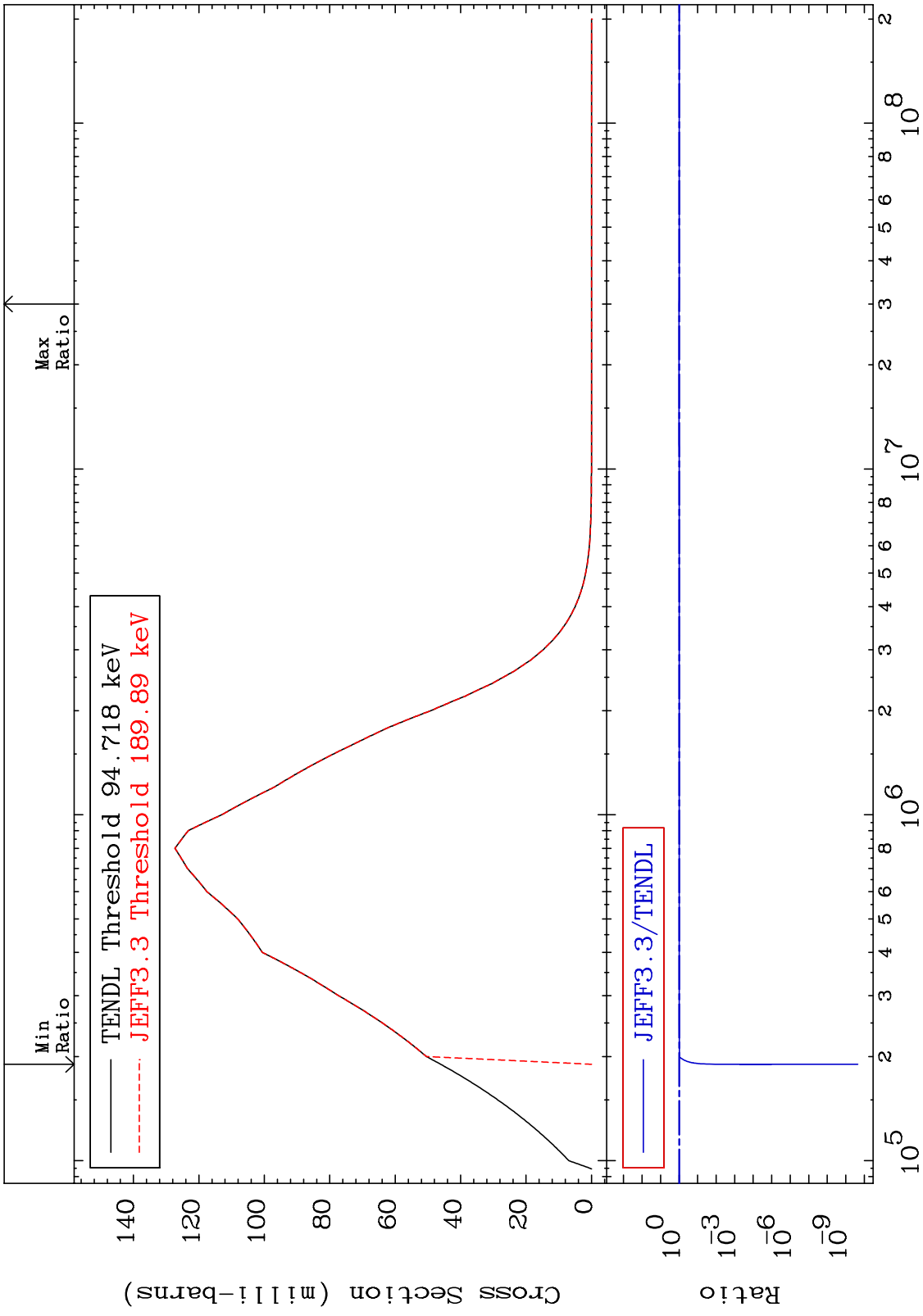


MAT 3034 (n,n') p  $\alpha$  30-Zn-67  
Cross Section -21.22 To 380.2 %



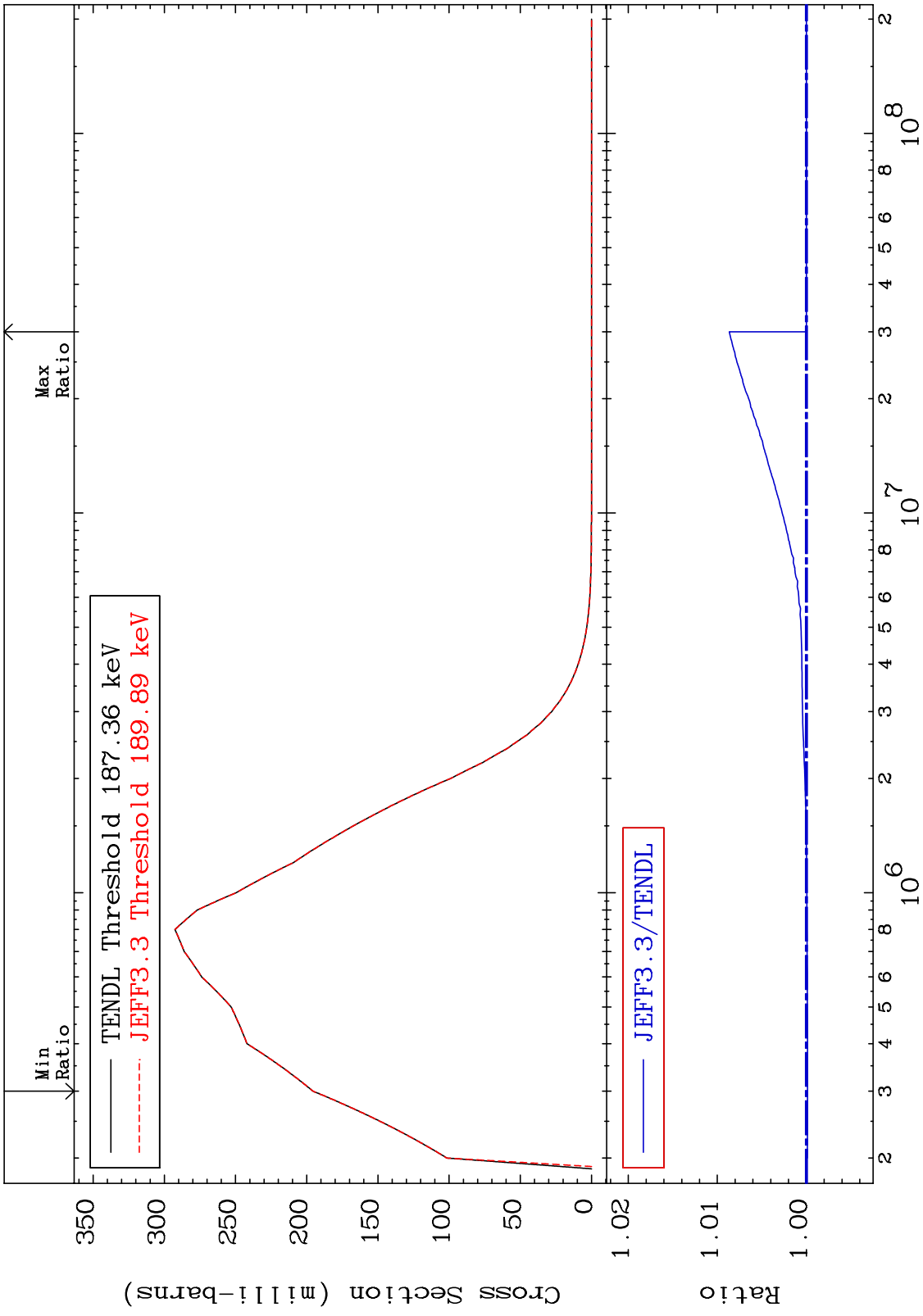
30-Zn-67

MAT 3034 MT= 51 (n,n') Level Cross Section -100.0 To 0.864 % 30-Zn-67

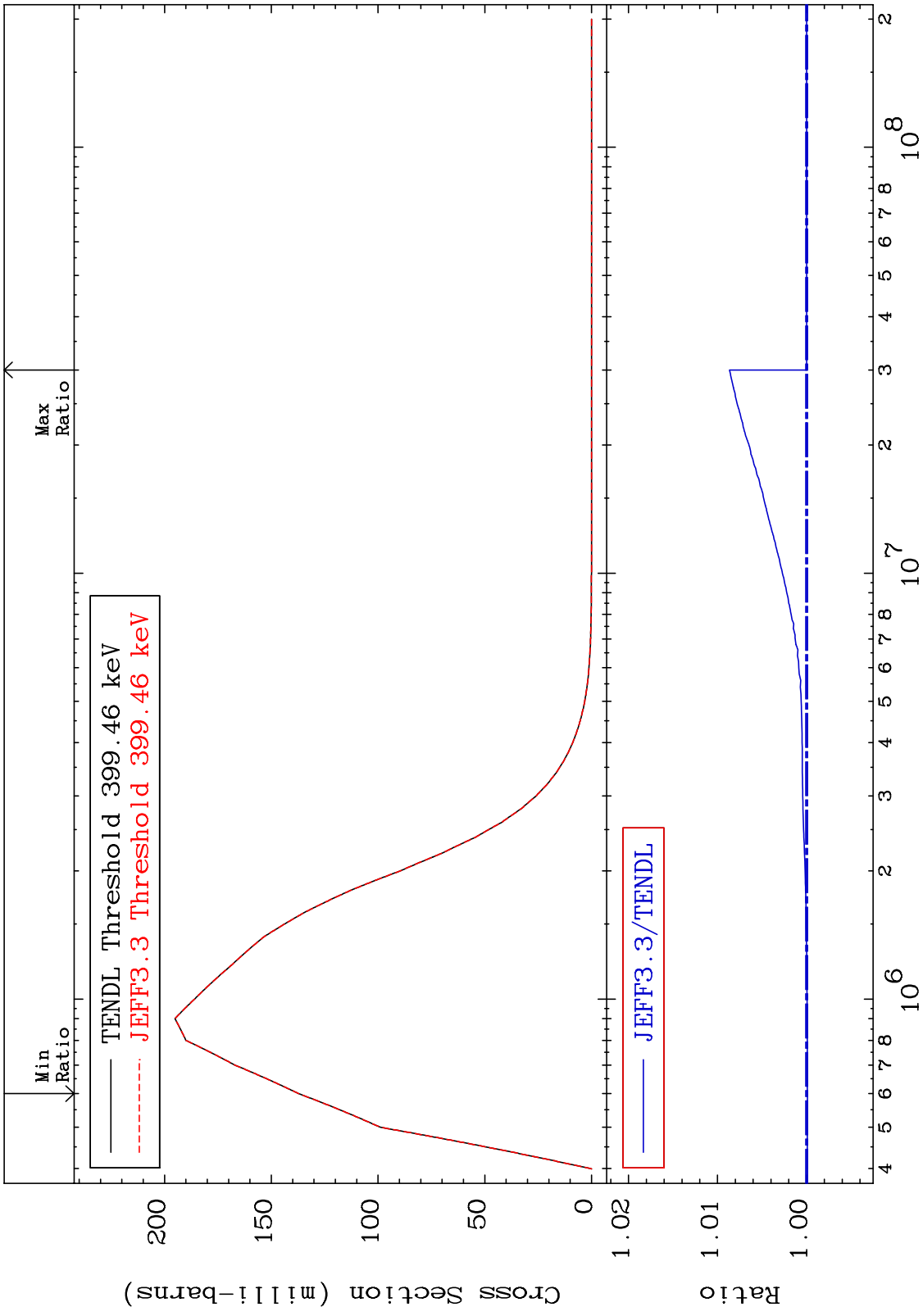


20 30-Zn-67

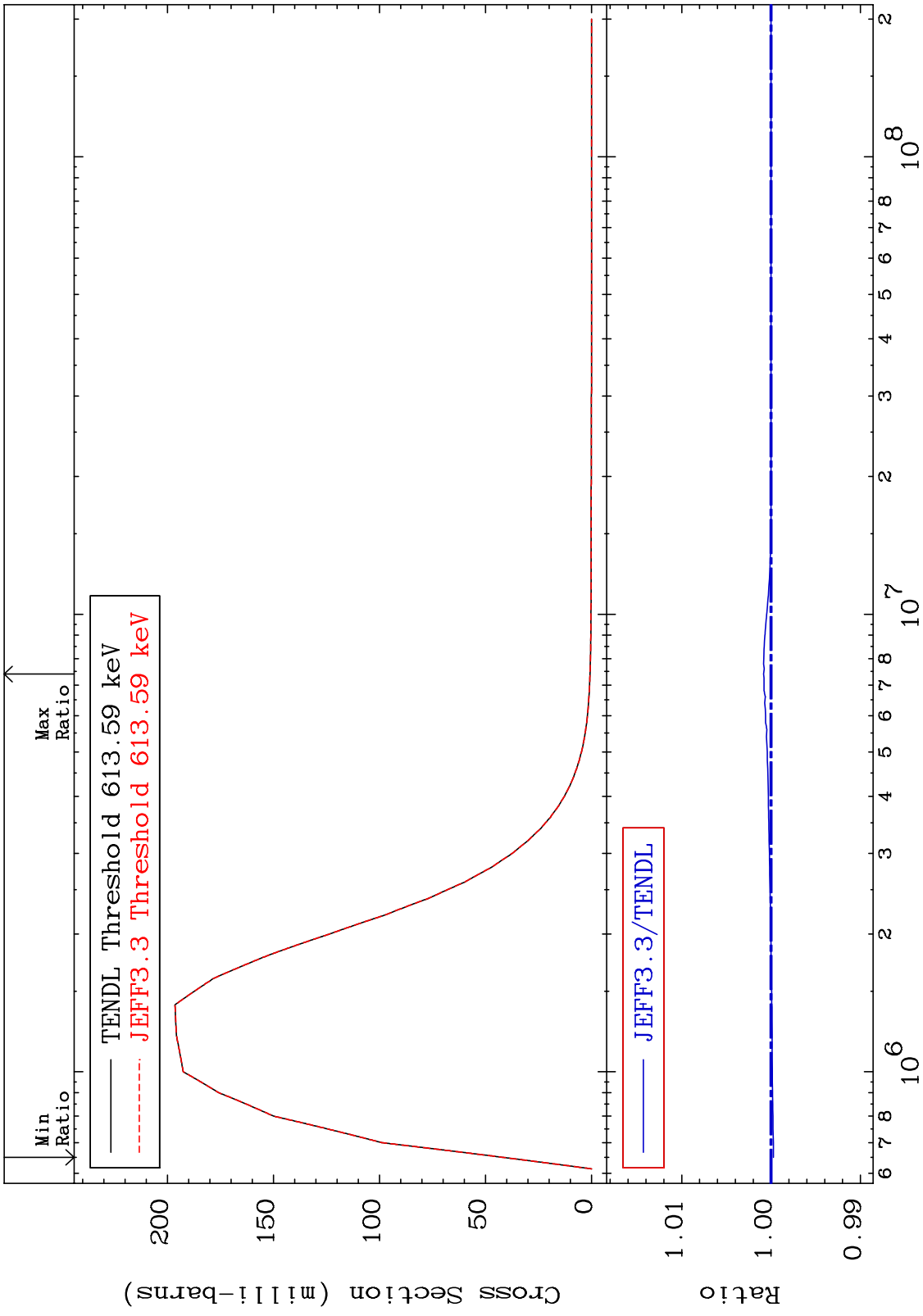
MAT 3034 MT= 52 (n,n') Level Cross Section -0.014 To 0.866 % 30-Zn-67



MAT 3034 MT= 53 (n,n') Level Cross Section 30-Zn-67  
 -0.009 To 0.866 %

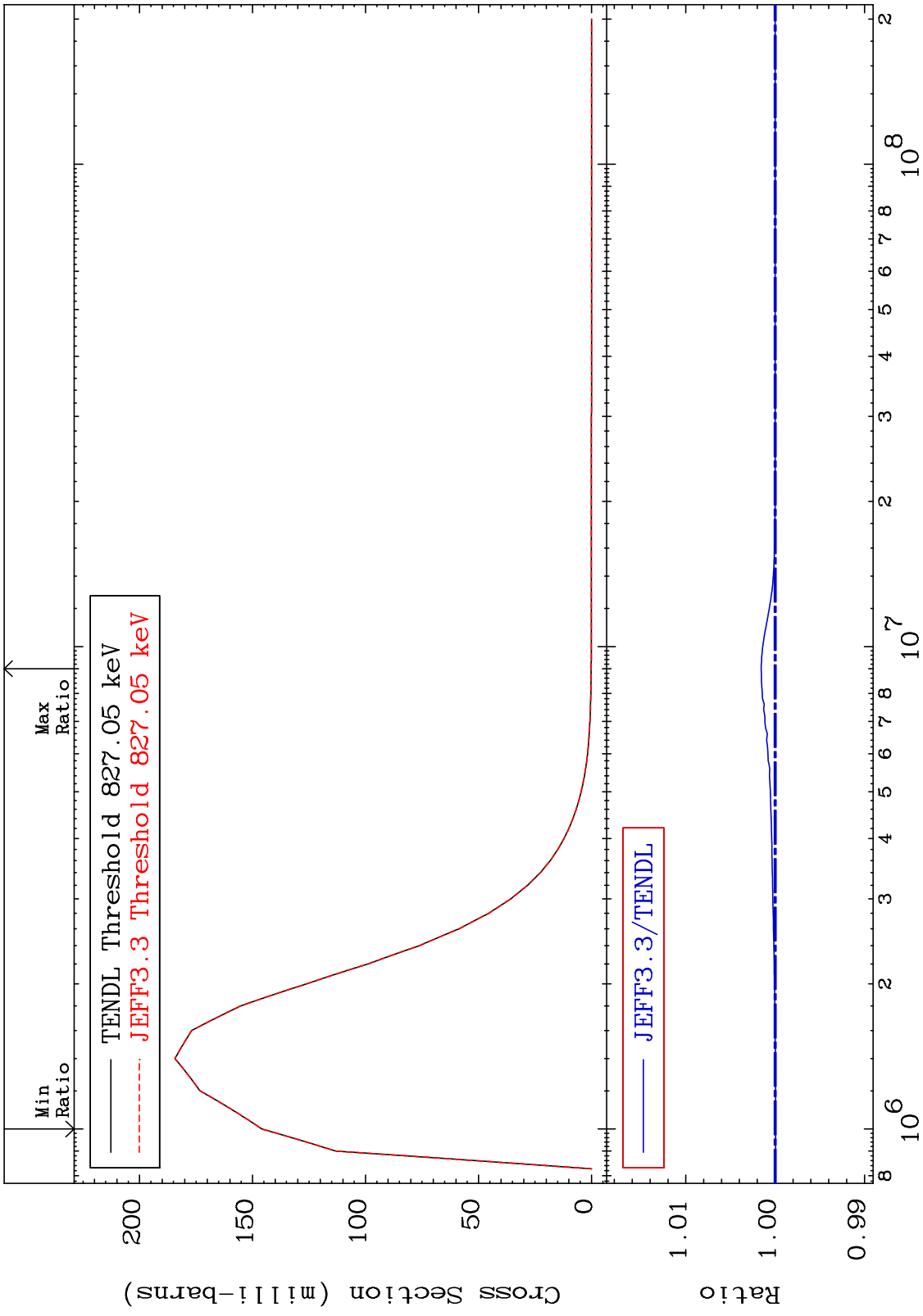


MAT 3034 MT= 54 (n,n') Level Cross Section -0.025 To 0.084 % 30-Zn-67

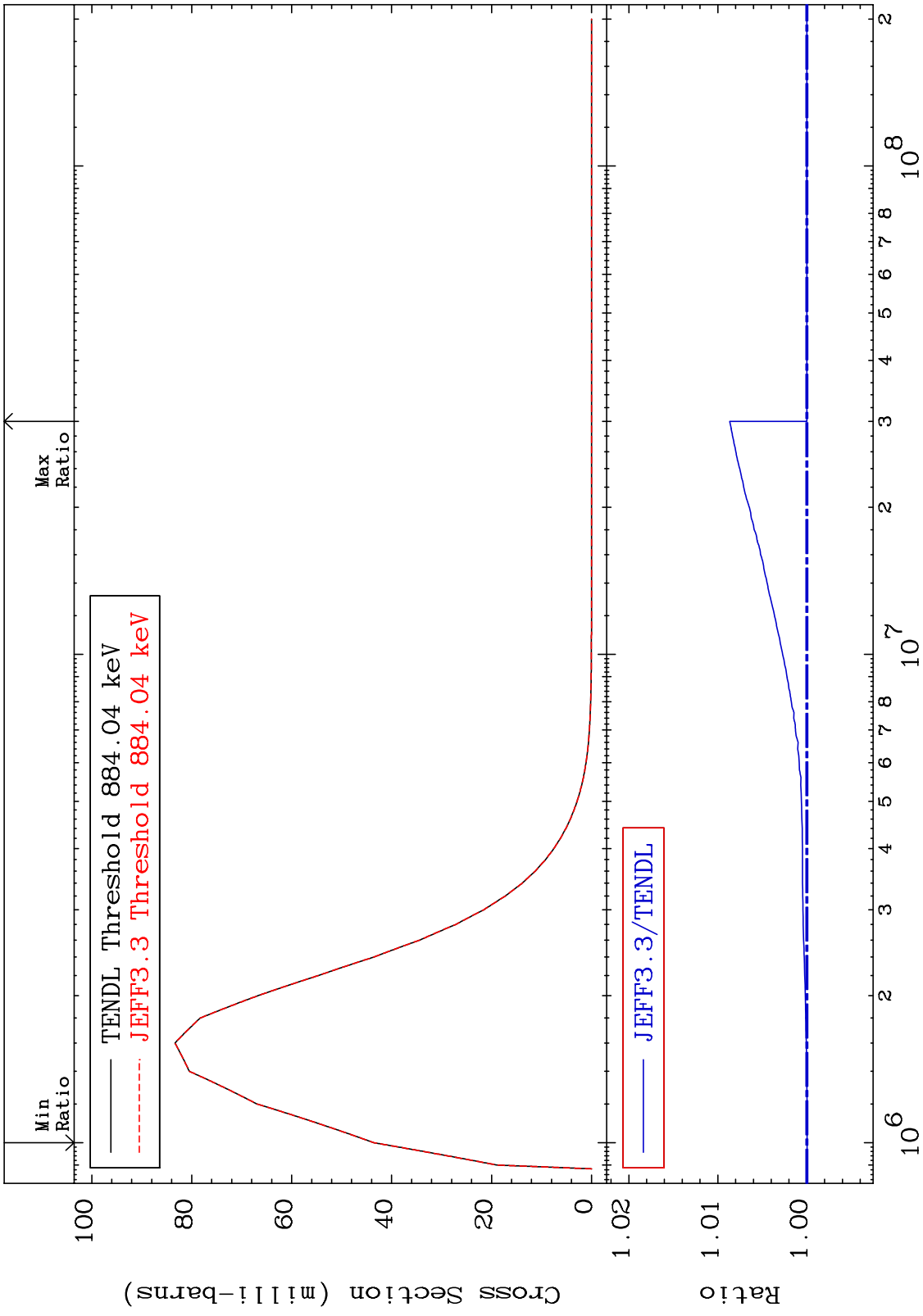




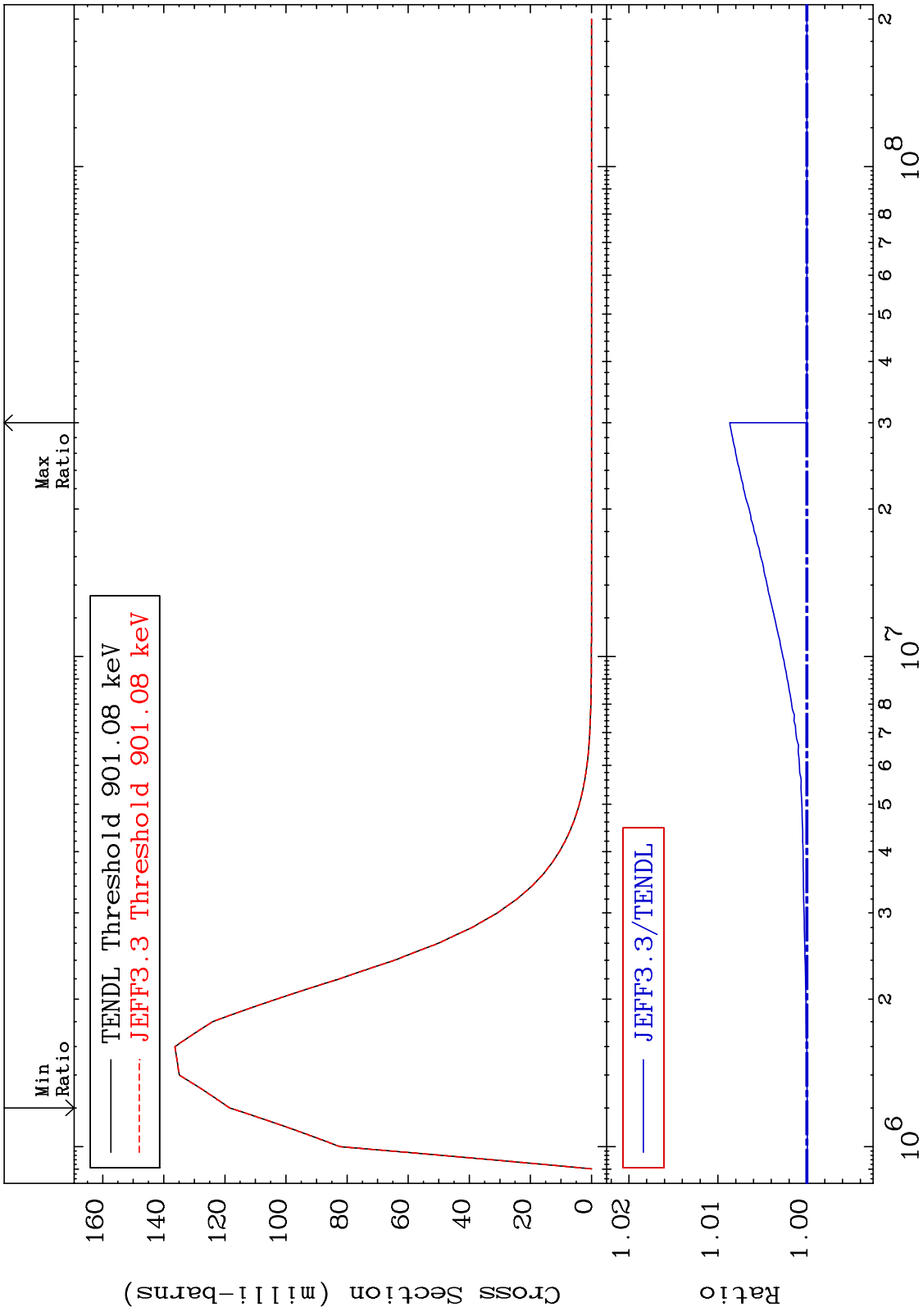
MAT 3034 MT= 55 (n,n') Level Cross Section 30-Zn-67  
-0.006 To 0.156 %



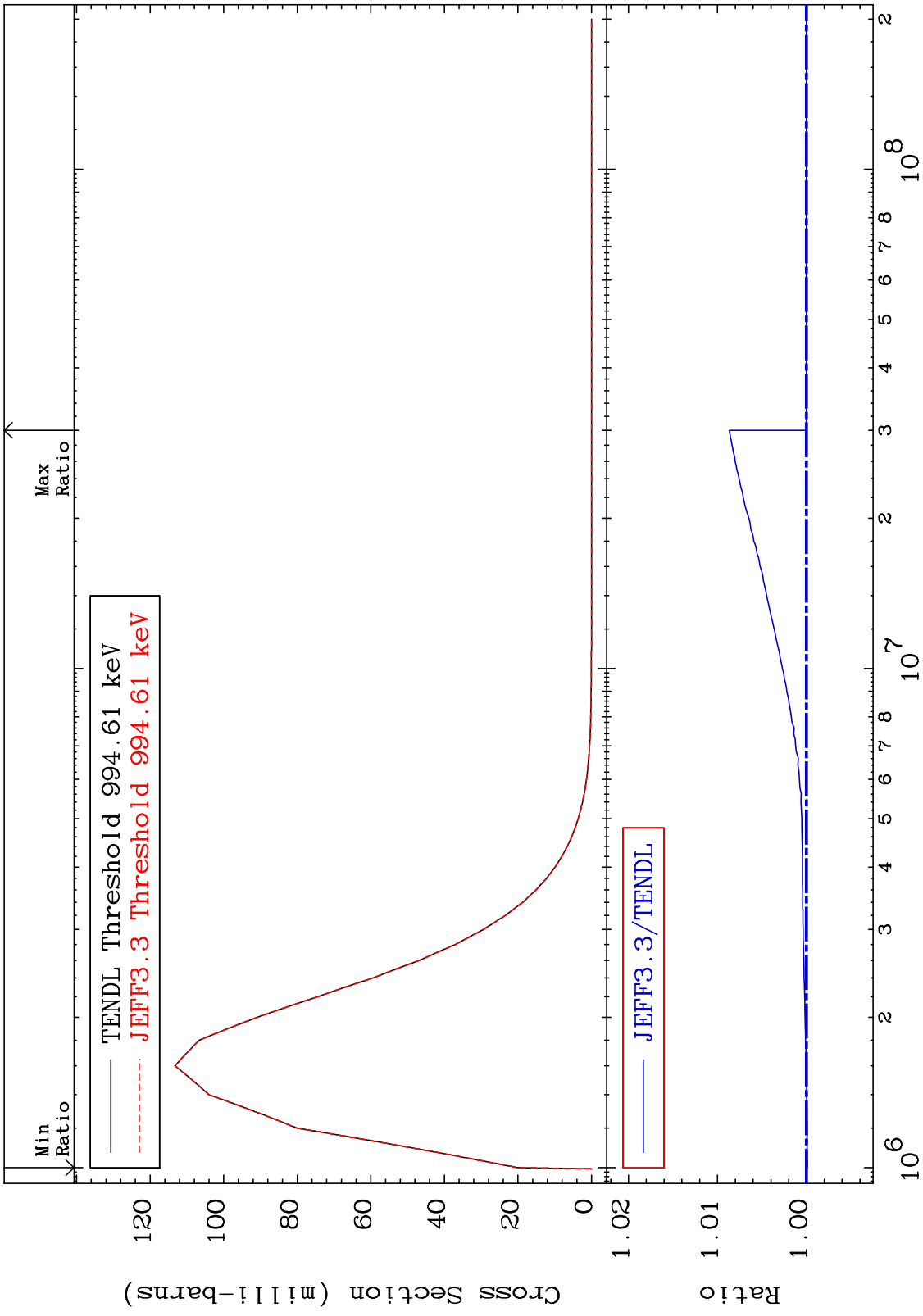
MAT 3034 MT= 56 (n,n') Level Cross Section 30-Zn-67  
 -0.003 To 0.866 %



MAT 3034 MT= 57 (n,n') Level Cross Section 30-Zn-67 -0.003 To 0.868 %

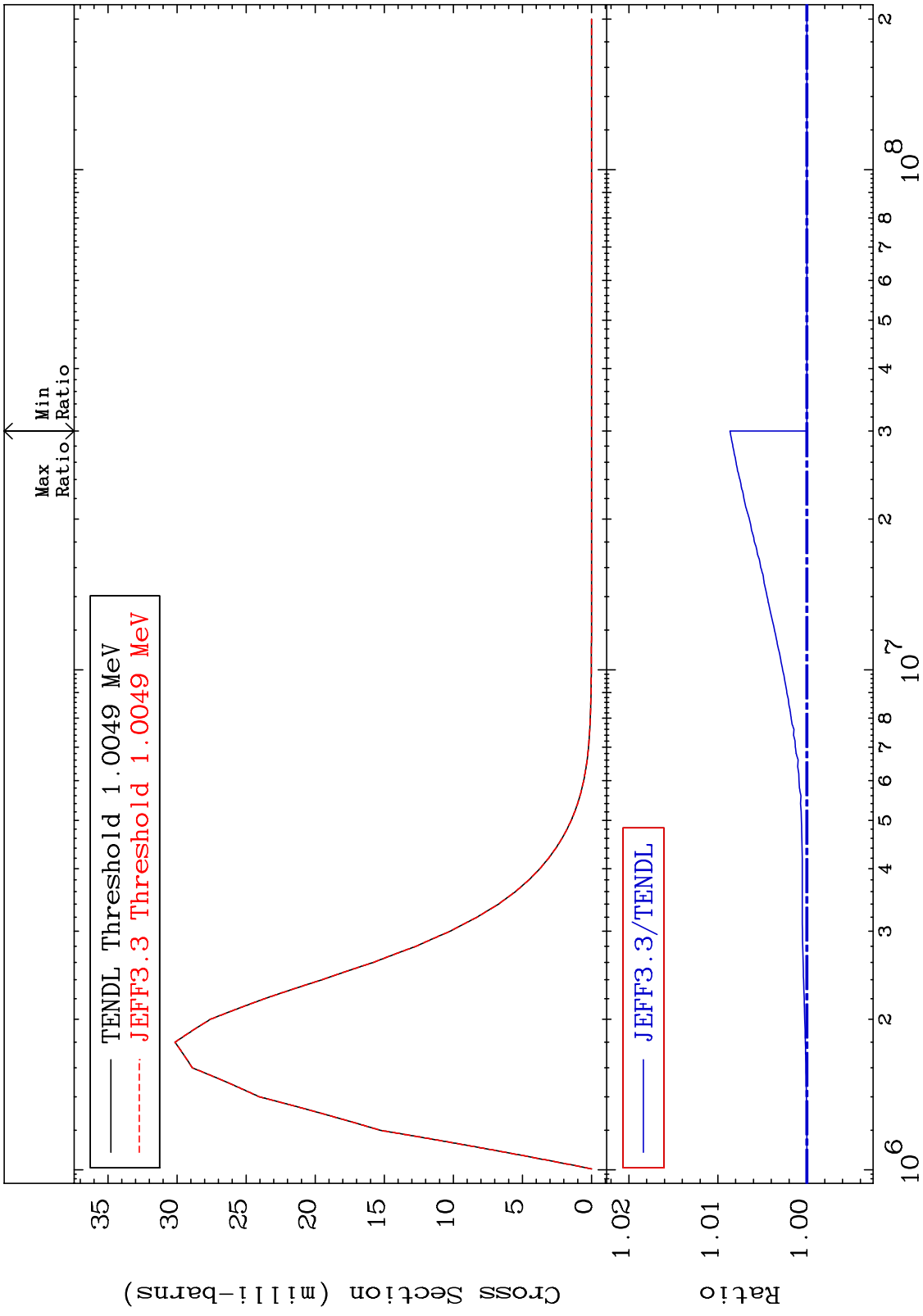


MAT 3034 MT= 58 (n,n') Level Cross Section -0.012 To 0.868 % 30-Zn-67



27 Incident Energy (eV) 30-Zn-67

MAT 3034 MT= 59 (n,n') Level Cross Section 30-Zn-67 To 0.864 %

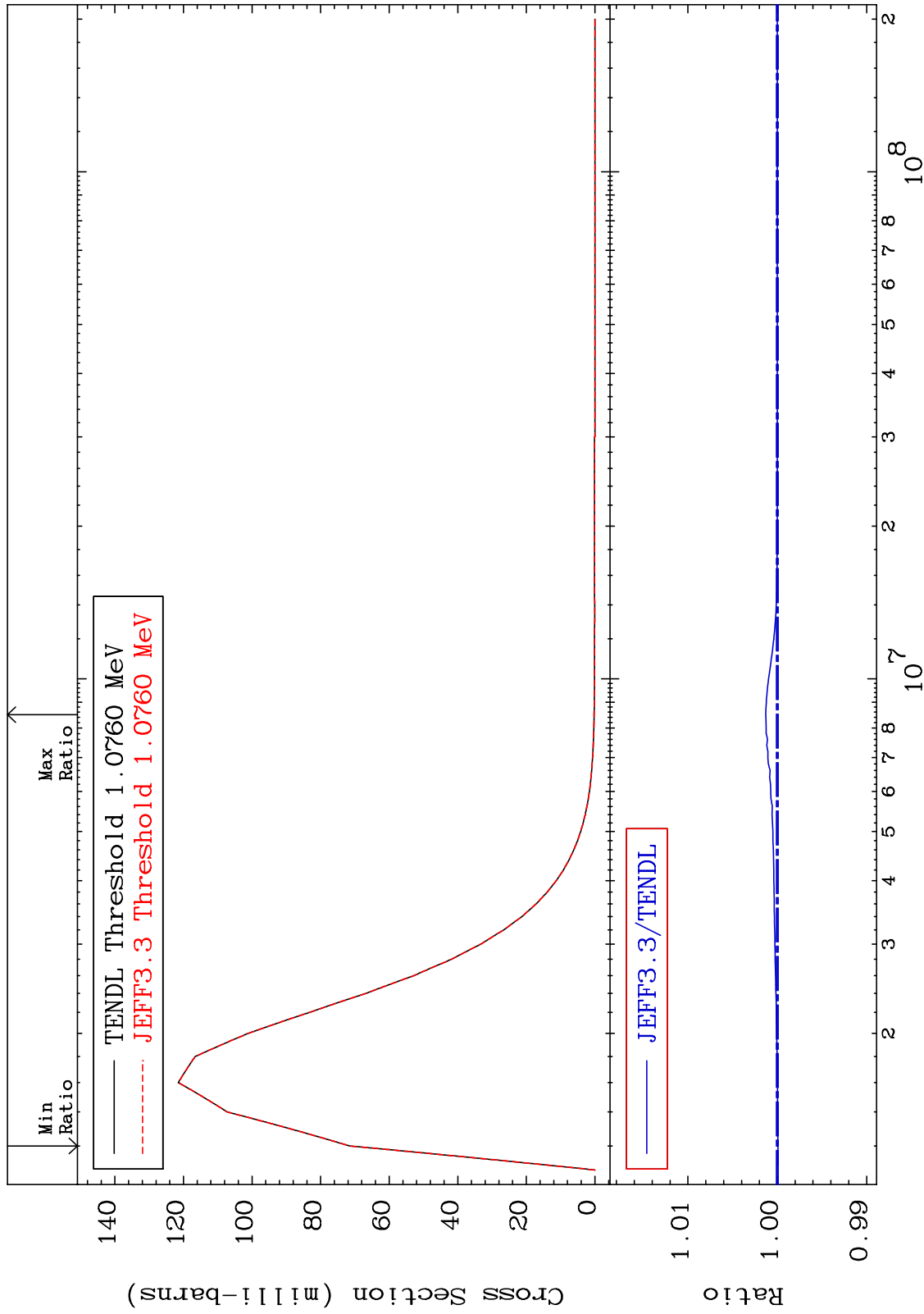


28 Incident Energy (eV) 30-Zn-67

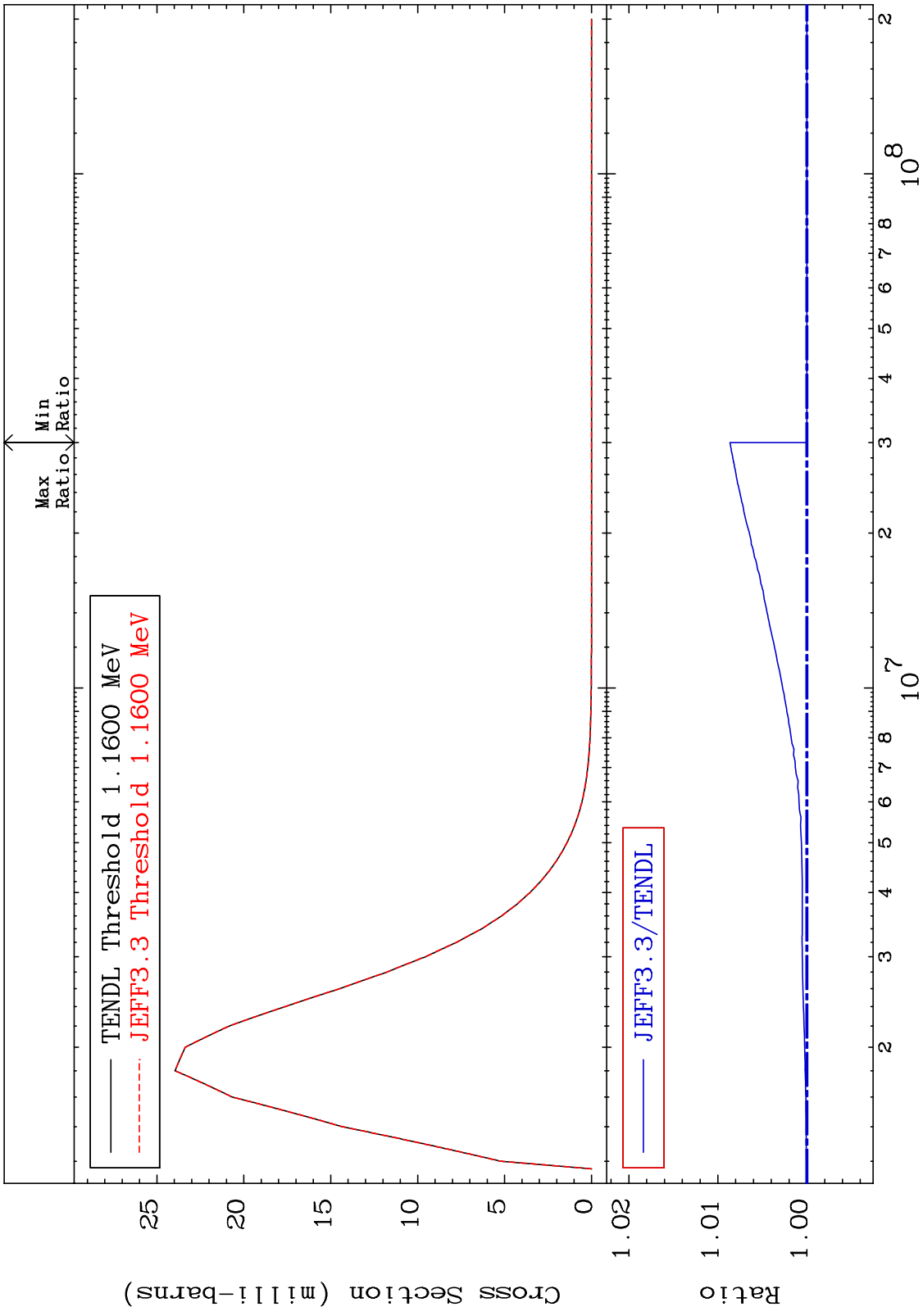
MAT 3034

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

30-Zn-67  
-0.007 To 0.129 %

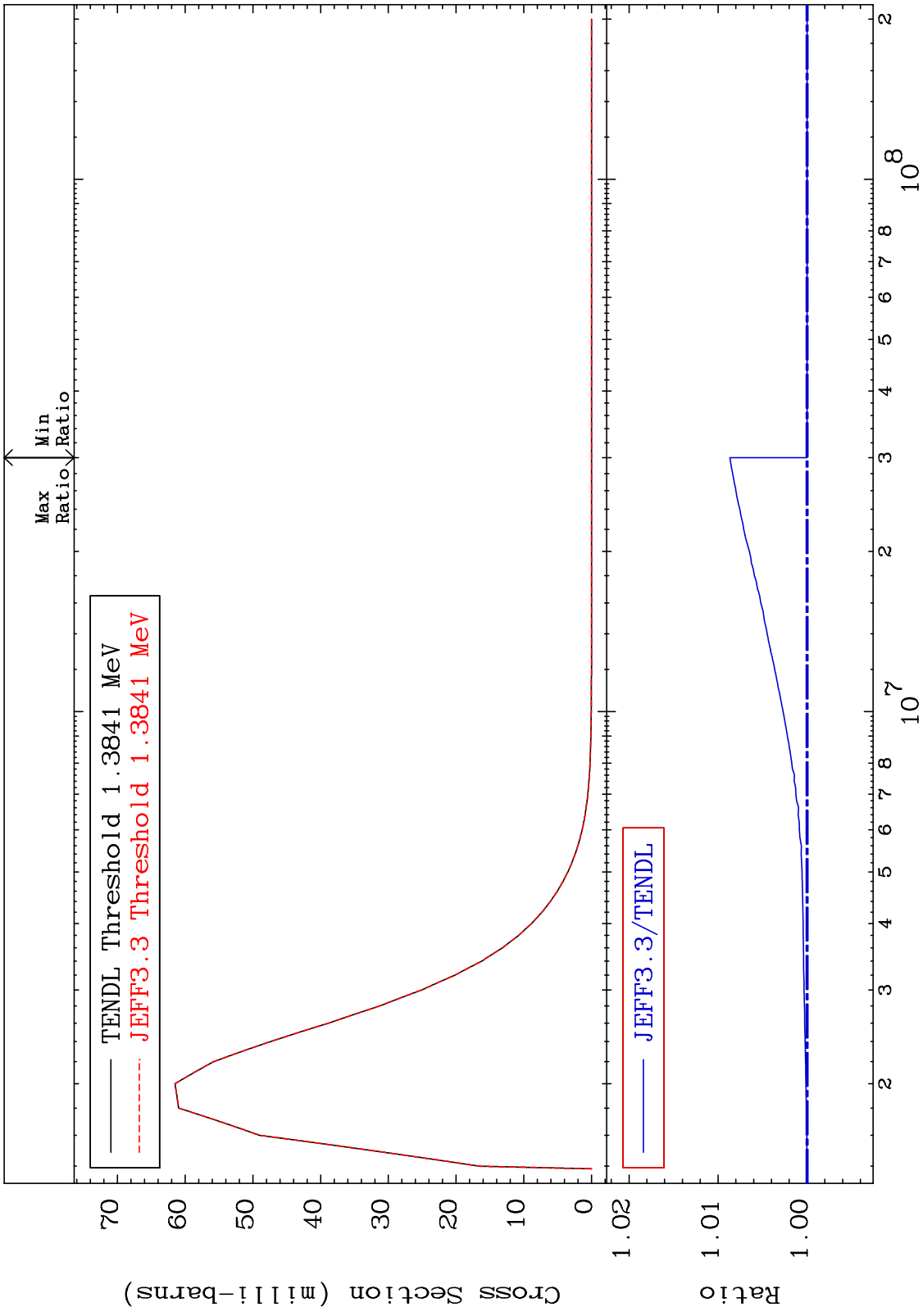


MAT 3034 MT= 61 (n,n') Level Cross Section 30-Zn-67  
 0.000 To 0.864 %



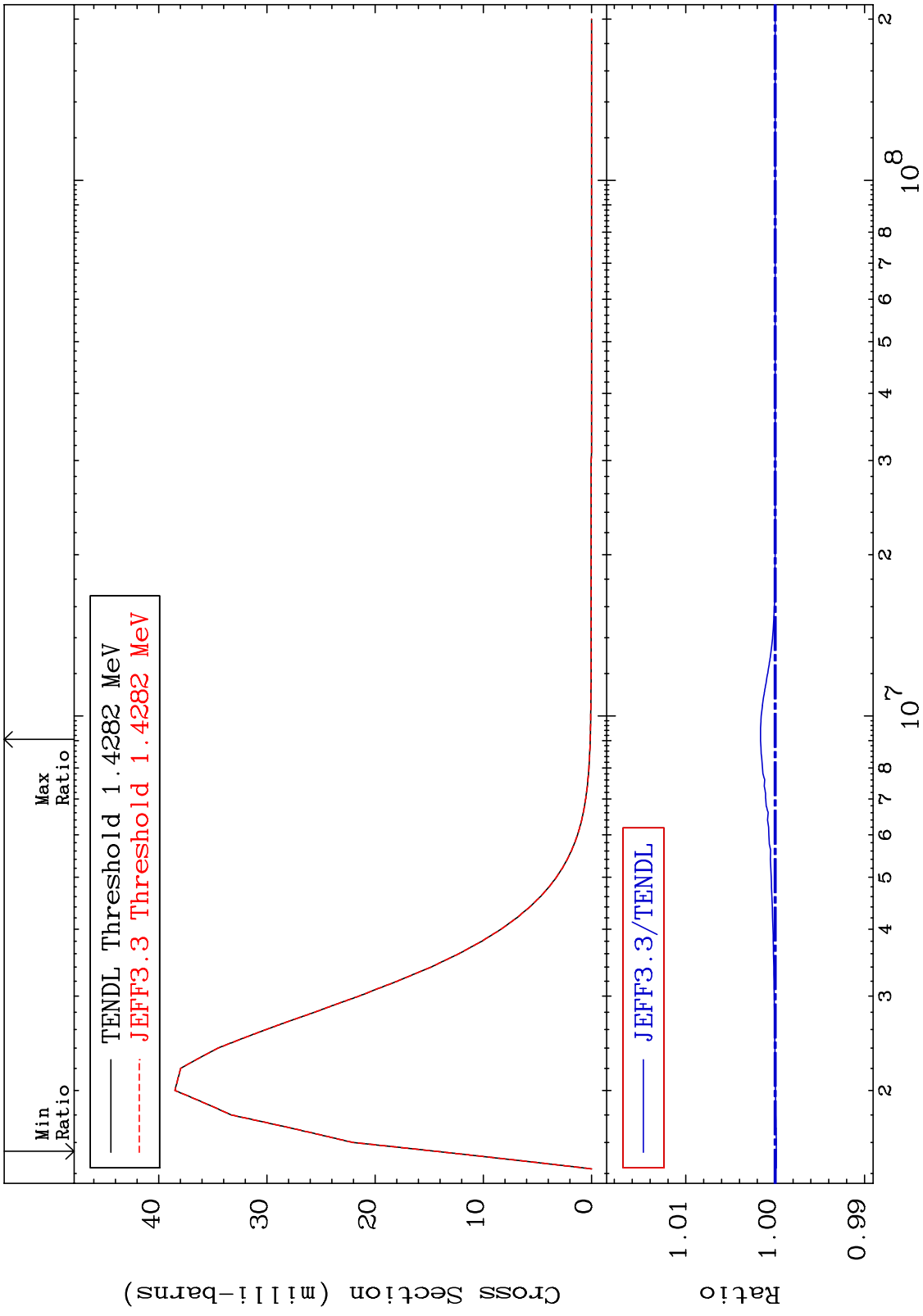
30 Incident Energy (eV) 30-Zn-67

MAT 3034 MT= 62 (n,n') Level Cross Section 30-Zn-67  
 0.000 To 0.868 %

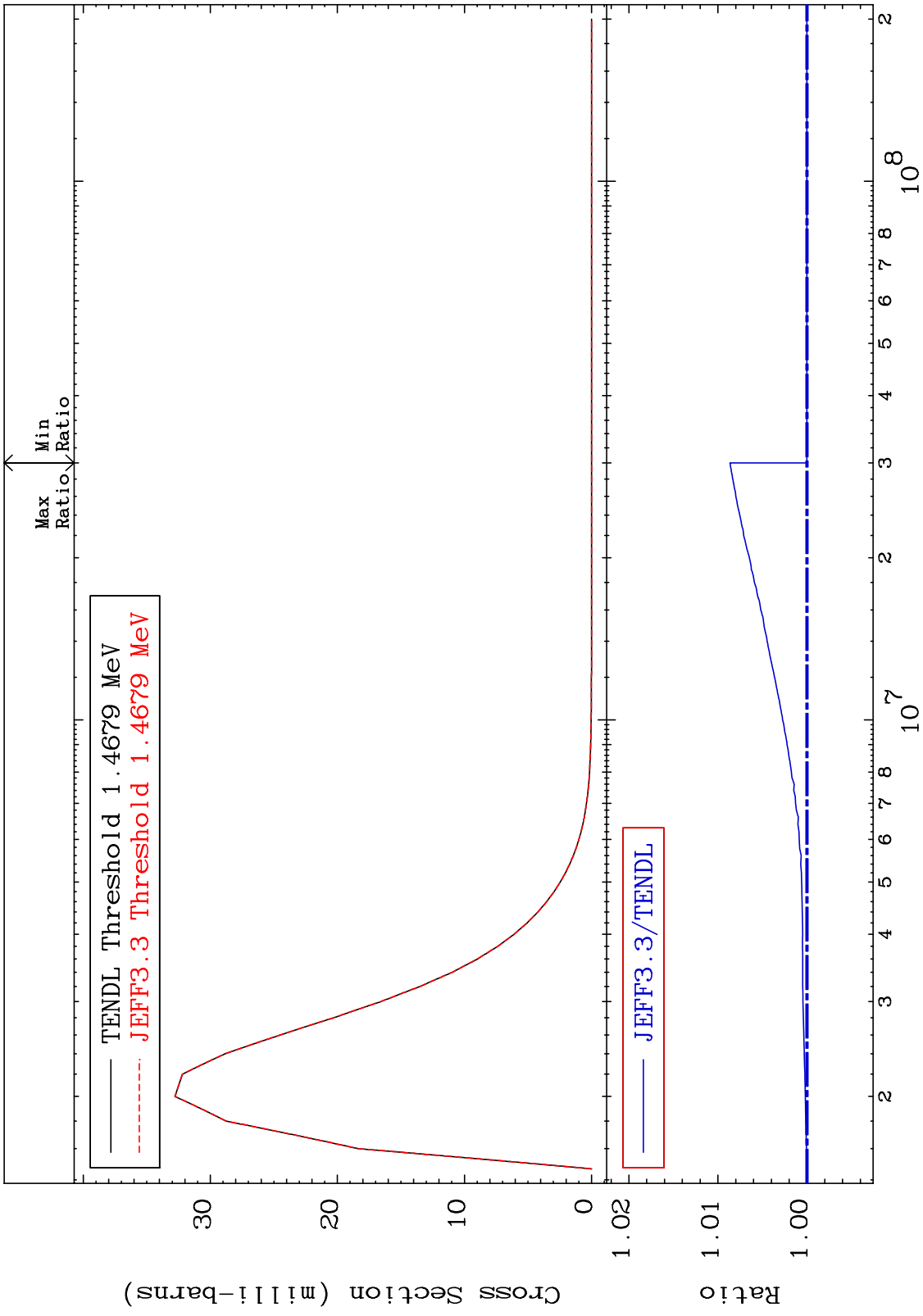




MAT 3034 MT= 63 (n,n') Level Cross Section 30-Zn-67  
 -0.013 To 0.163 %



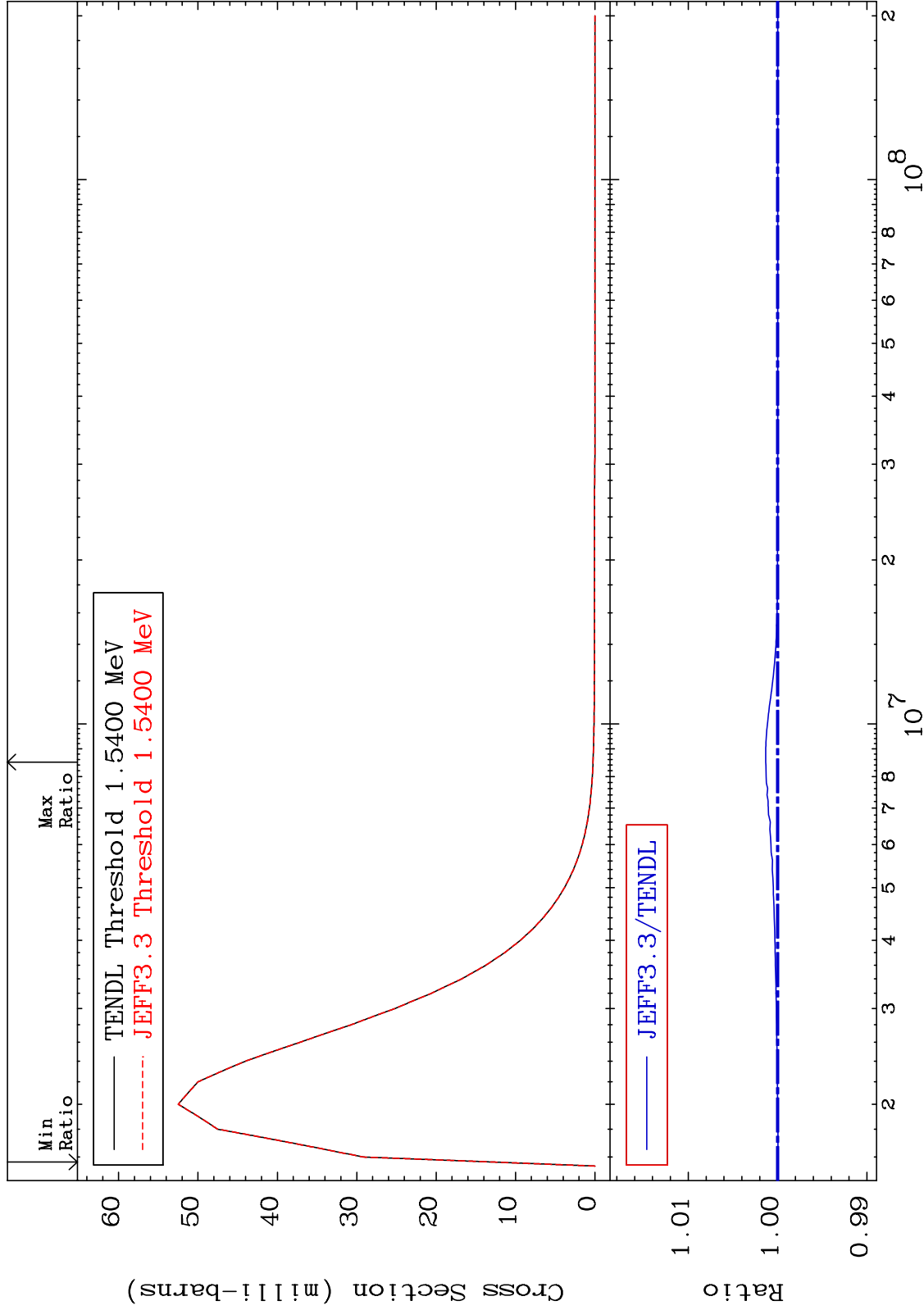
MAT 3034 MT= 64 (n,n') Level Cross Section 30-Zn-67  
 0.000 To 0.865 %



MAT 3034

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

30-Zn-67  
-0.005 To 0.134 %

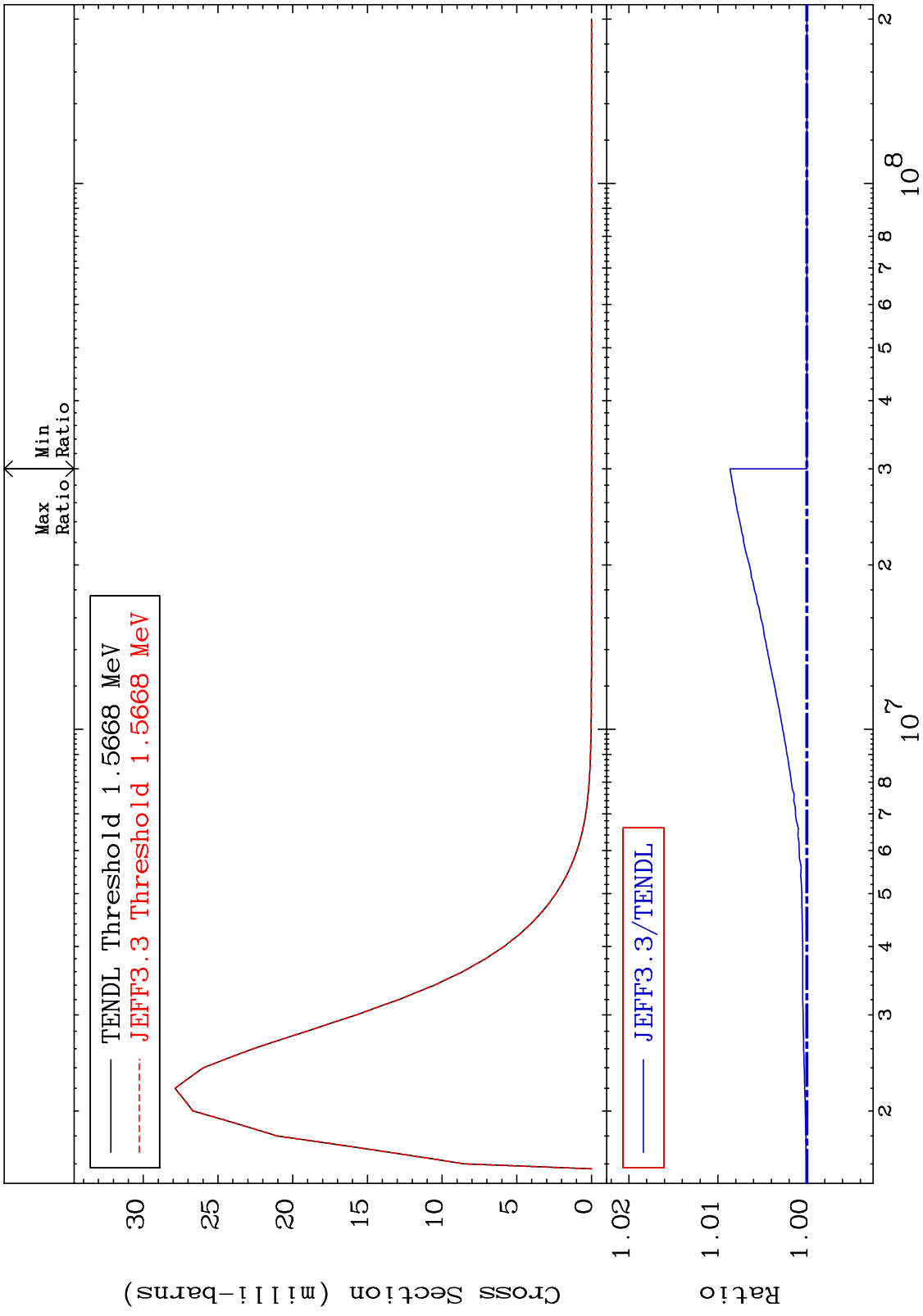


34

Incident Energy (eV)

30-Zn-67

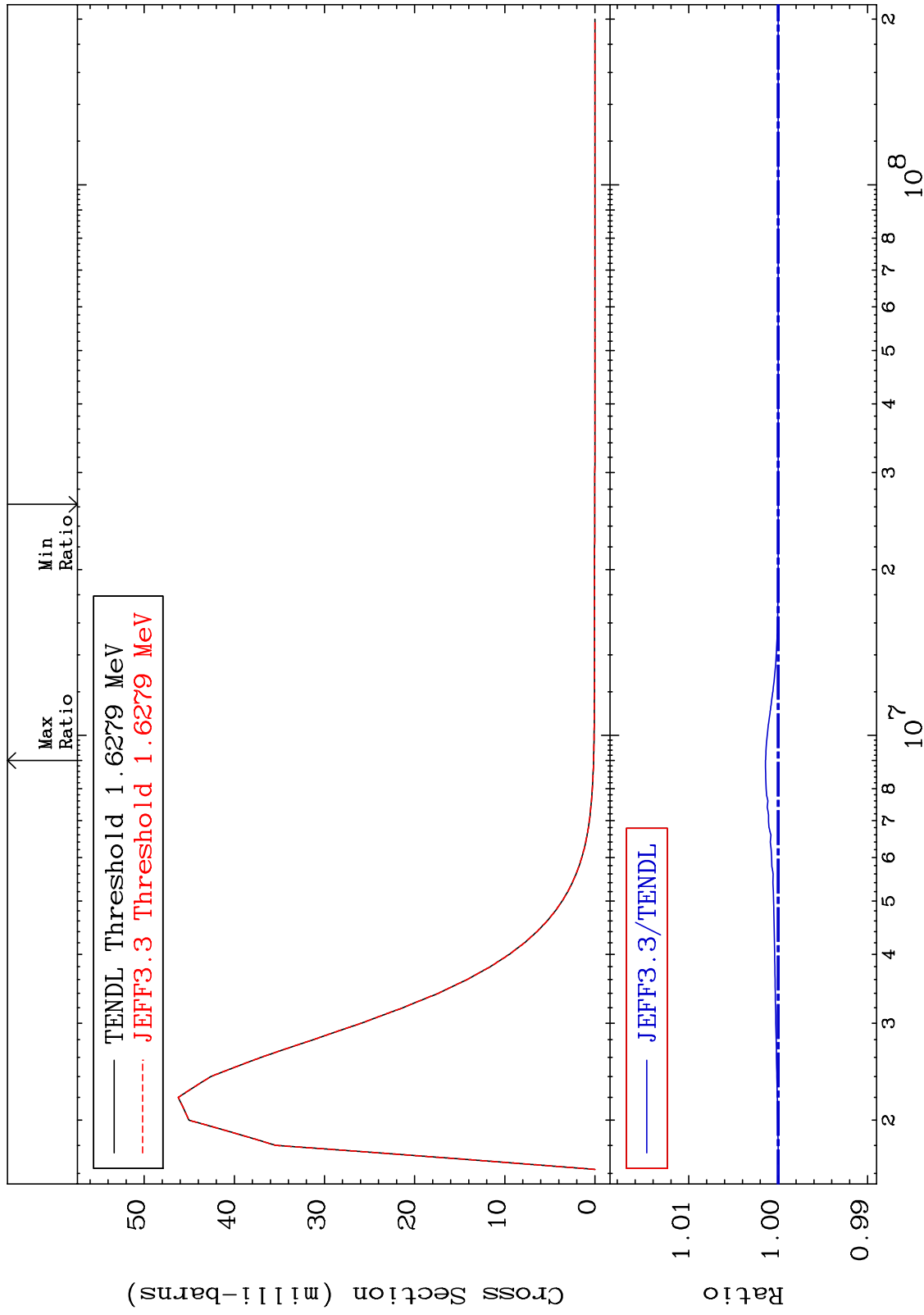
MAT 3034 MT= 66 (n,n') Level Cross Section 30-Zn-67  
 0.000 To 0.865 %



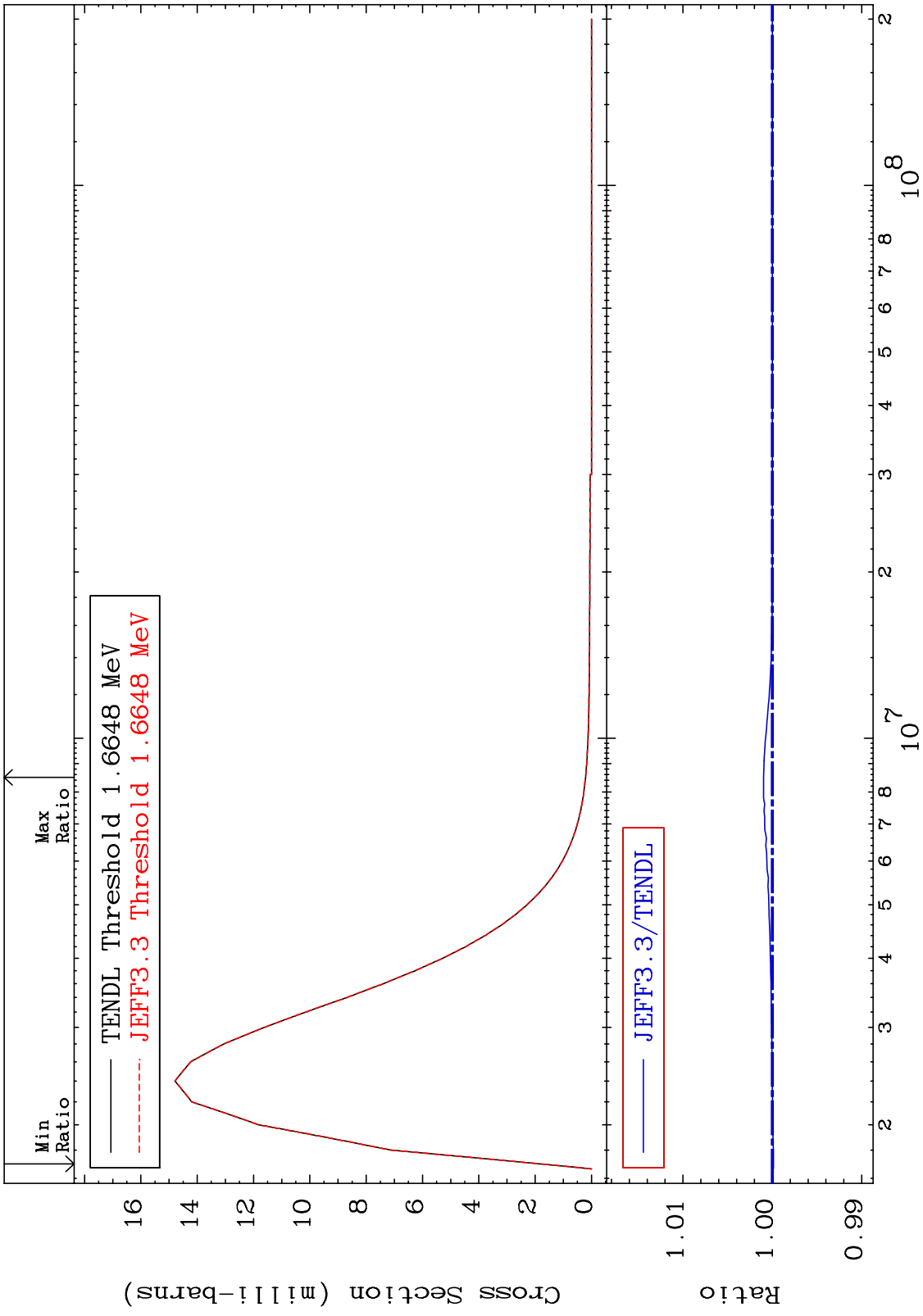
MAT 3034

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

30-Zn-67  
0.000 To 0.141 %

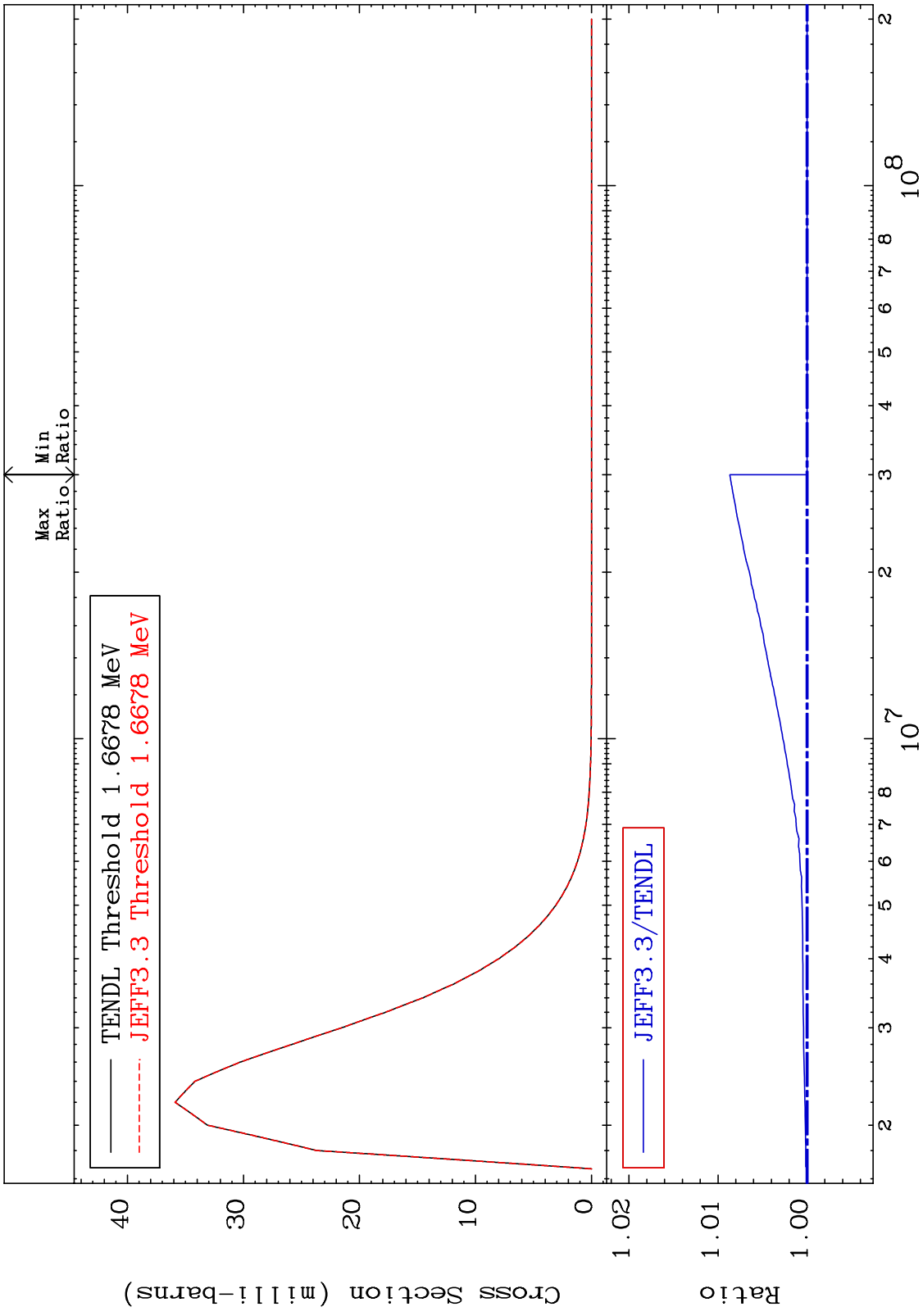


MAT 3034 MT= 68 (n,n') Level Cross Section 30-Zn-67  
 -0.012 To 0.098 %



37 Incident Energy (eV) 30-Zn-67

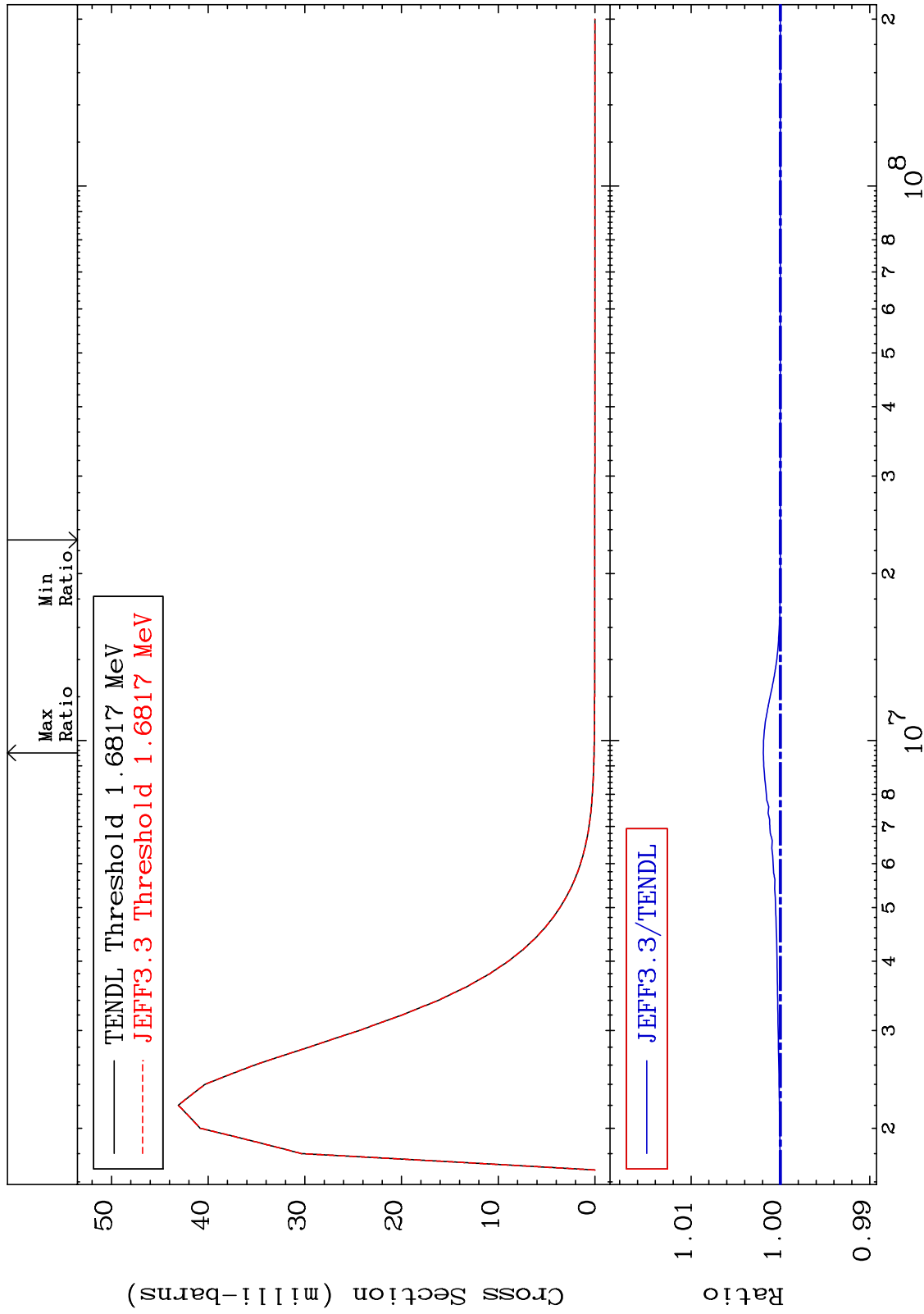
MAT 3034 MT= 69 (n,n') Level Cross Section 30-Zn-67 To 0.867 %



MAT 3034

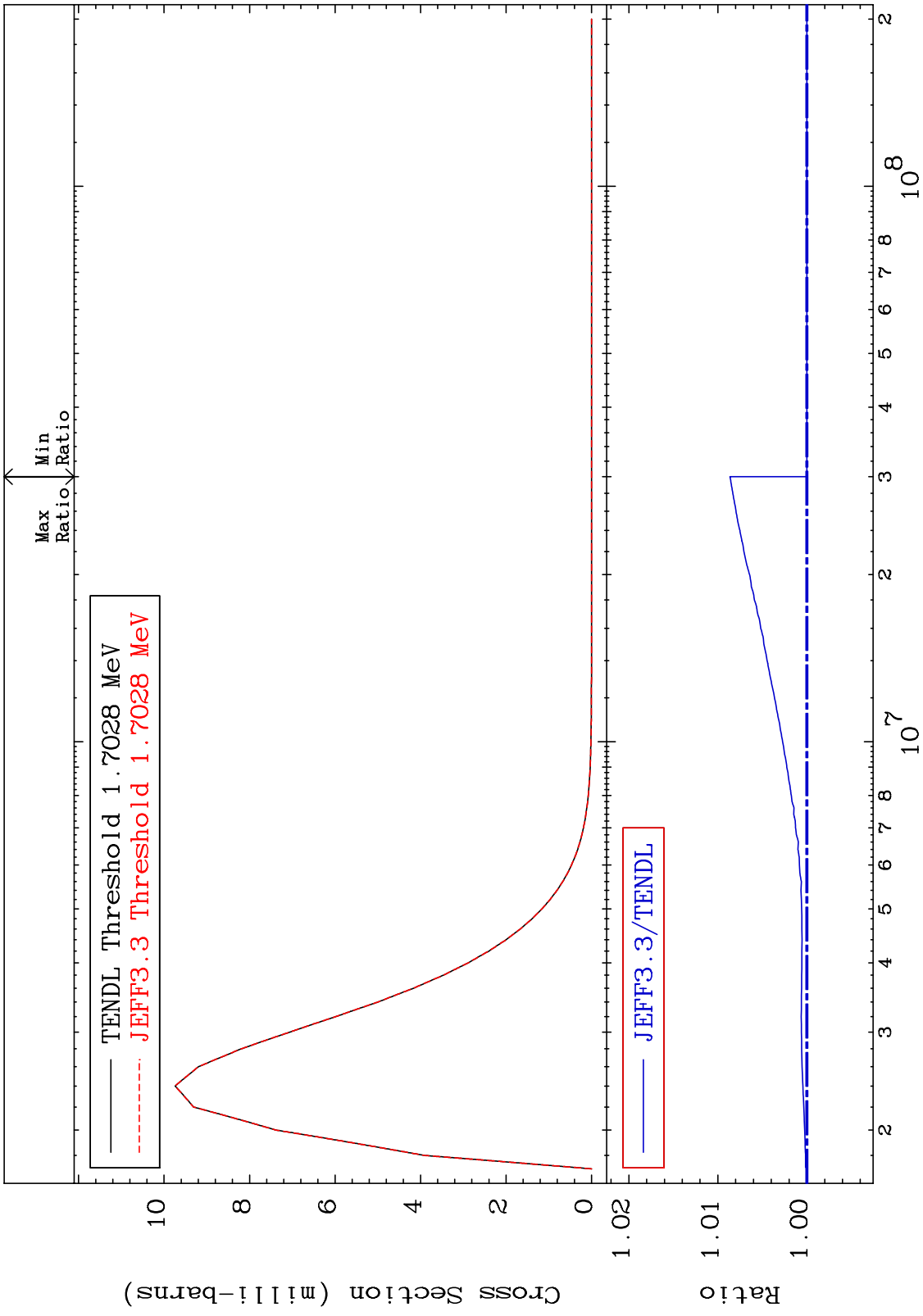
MT= 70 (n,n') Level  
Cross Section

0.000 To 0.191 %  
30-Zn-67



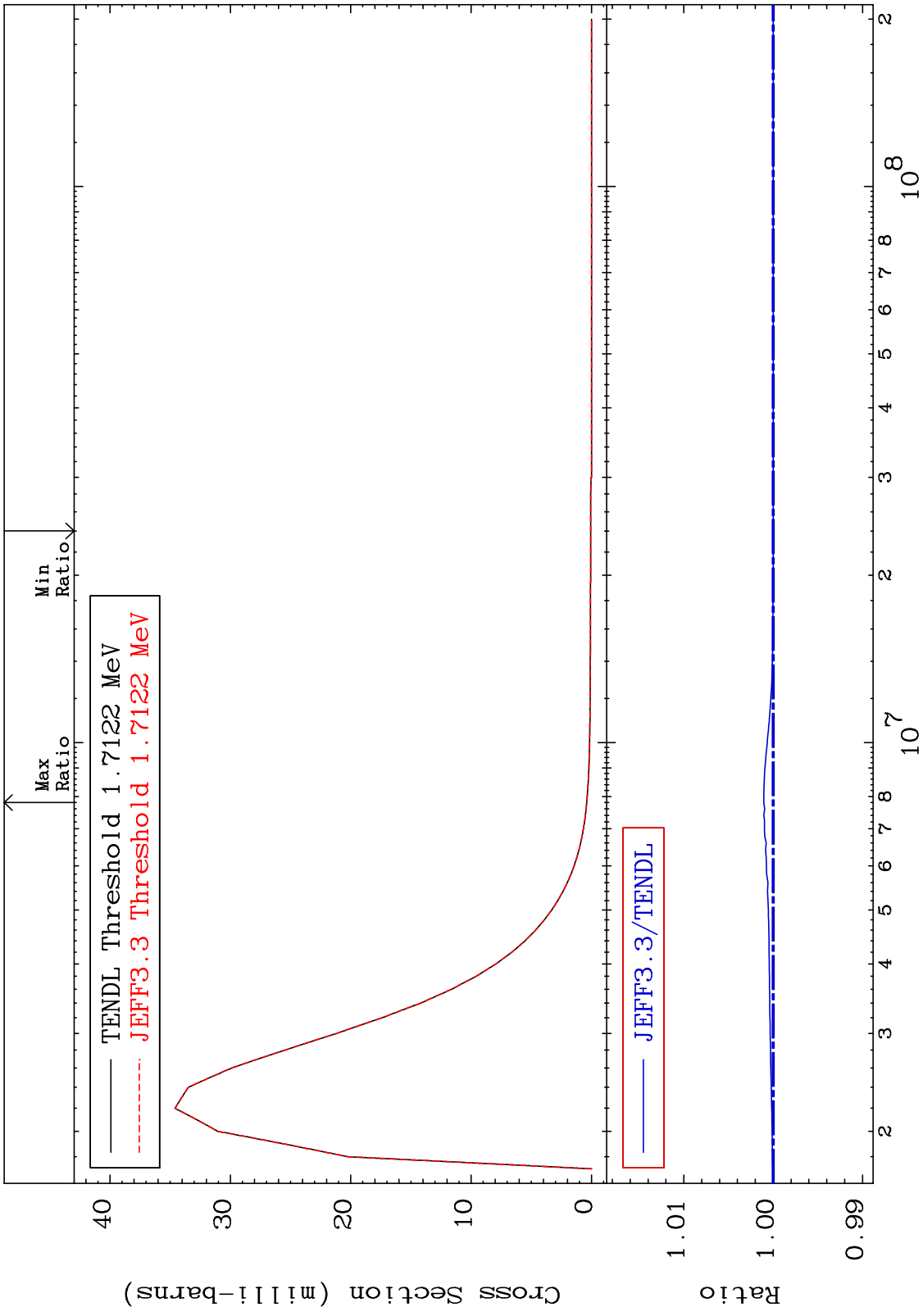


MAT 3034 MT= 71 (n,n') Level Cross Section 30-Zn-67 To 0.864 %



40 30-Zn-67 Incident Energy (eV)

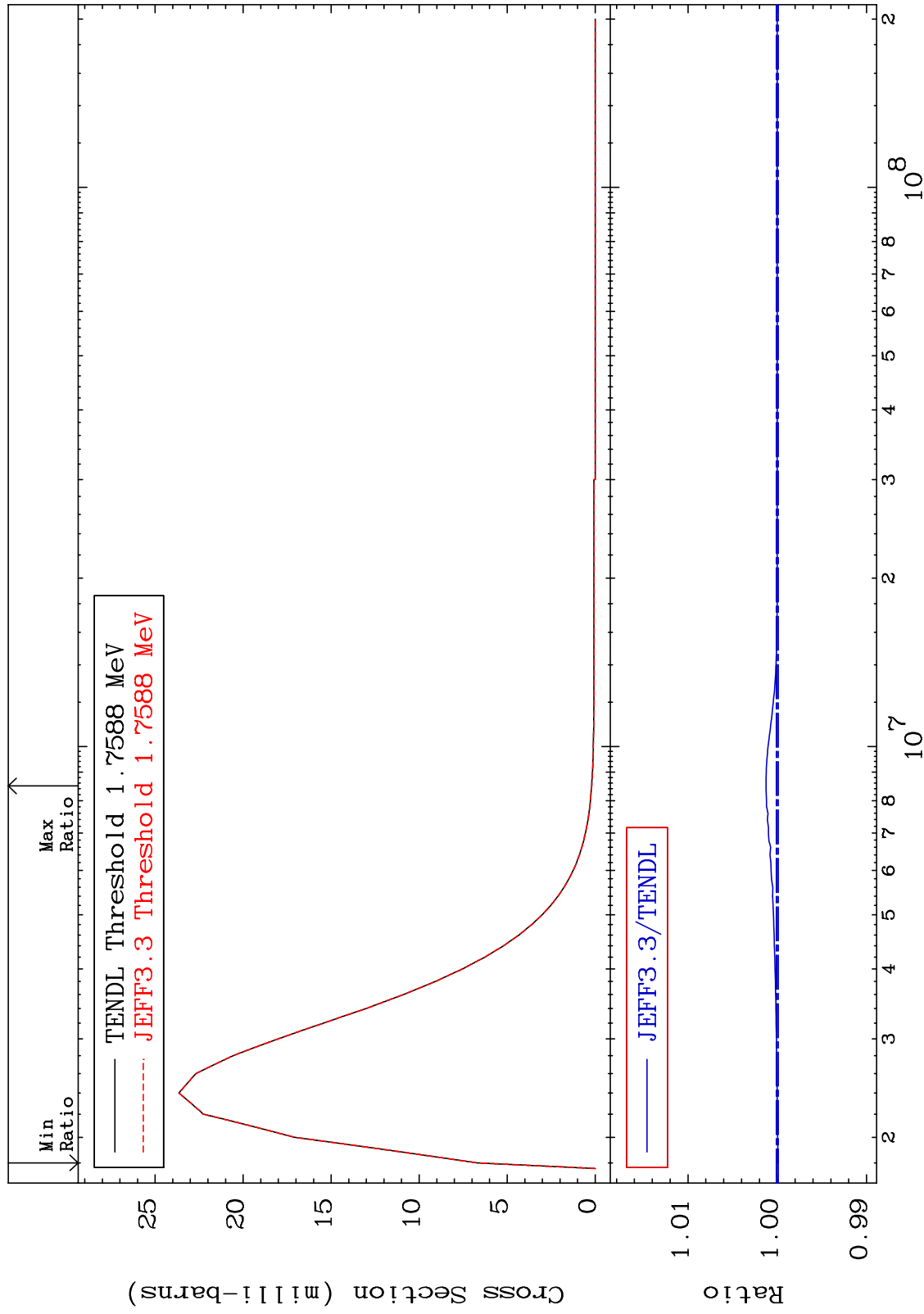
MAT 3034 MT= 72 (n,n') Level Cross Section 30-Zn-67 To 0.106 %



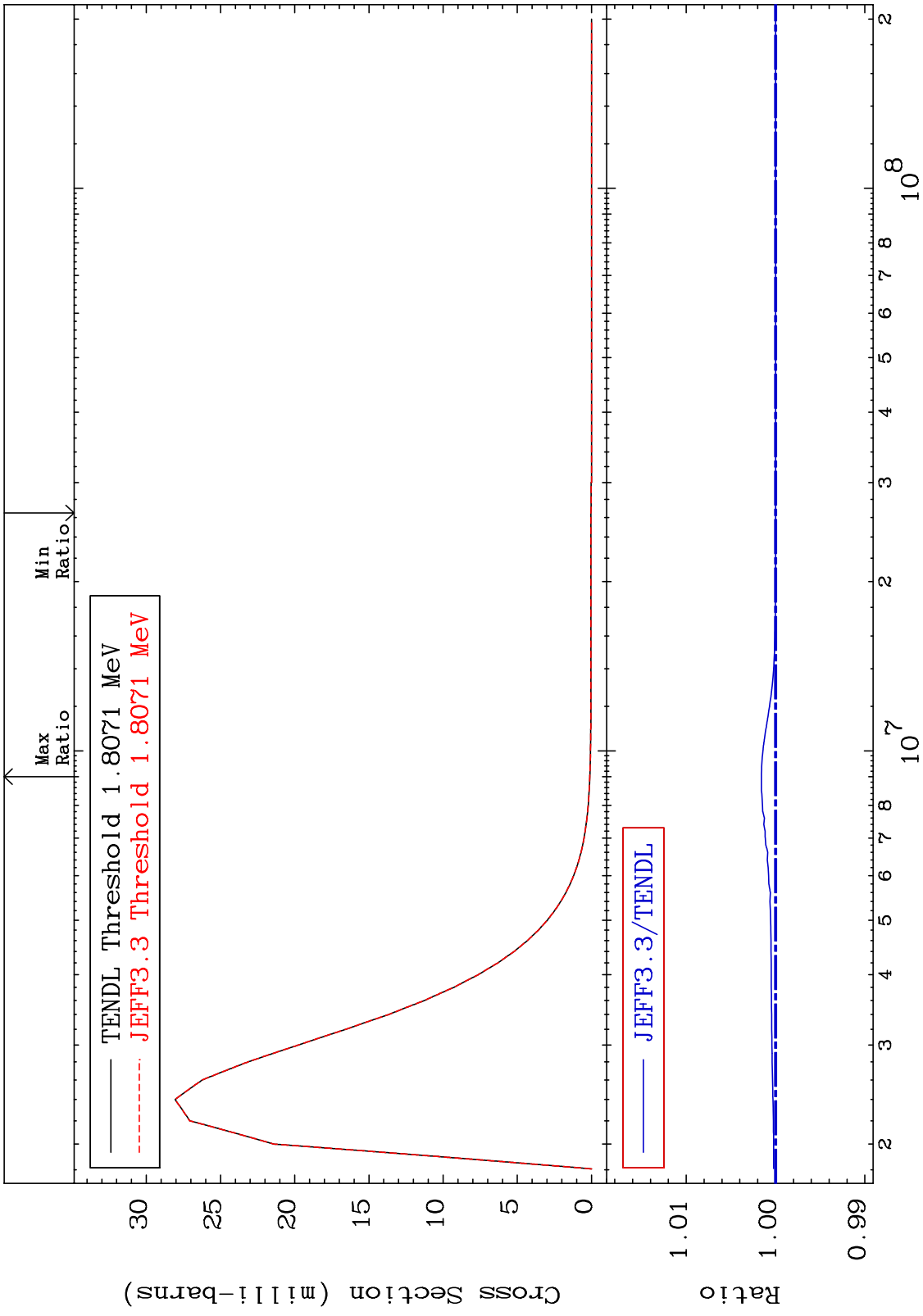
MAT 3034

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

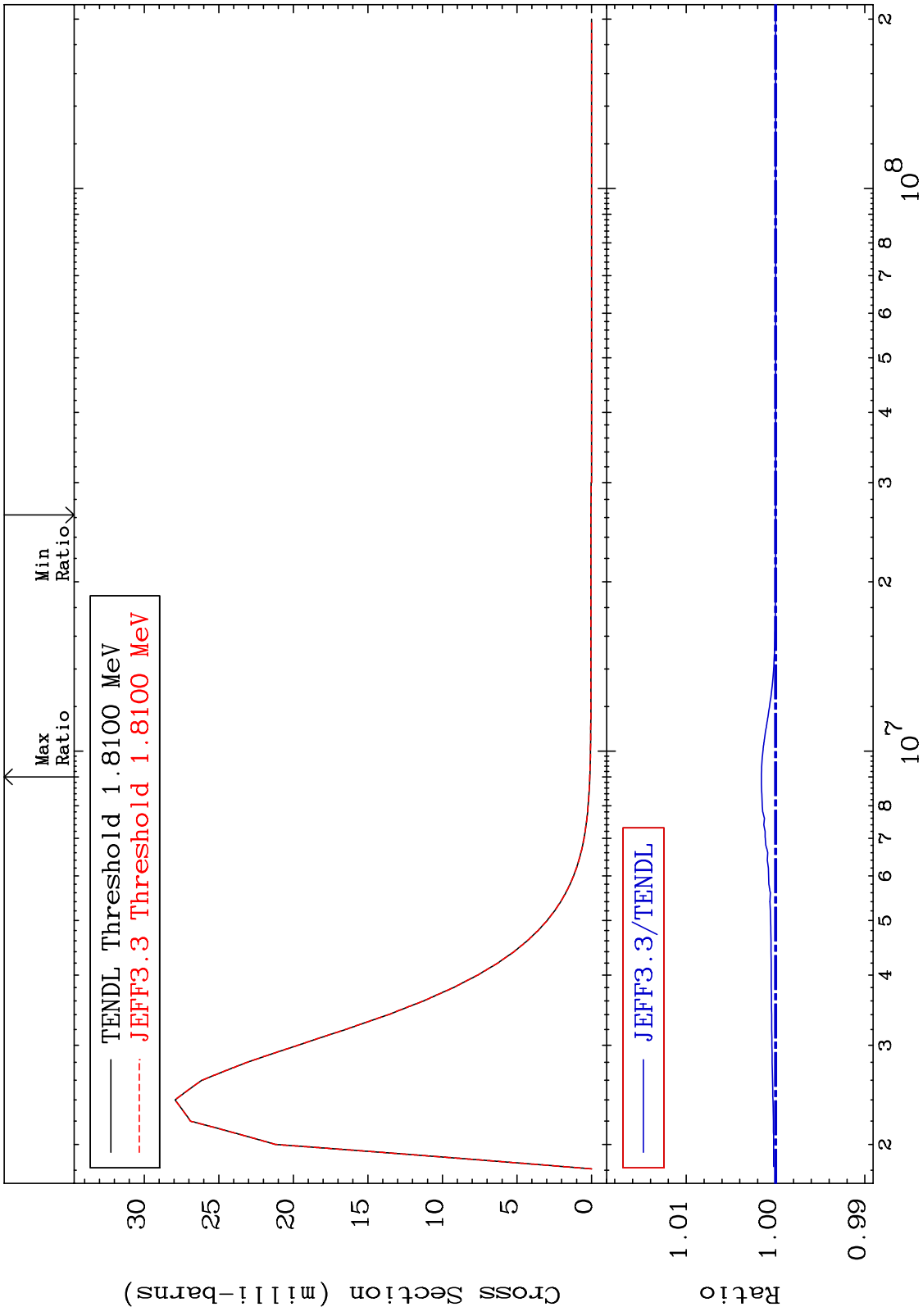
30-Zn-67  
-0.008 To 0.127 %



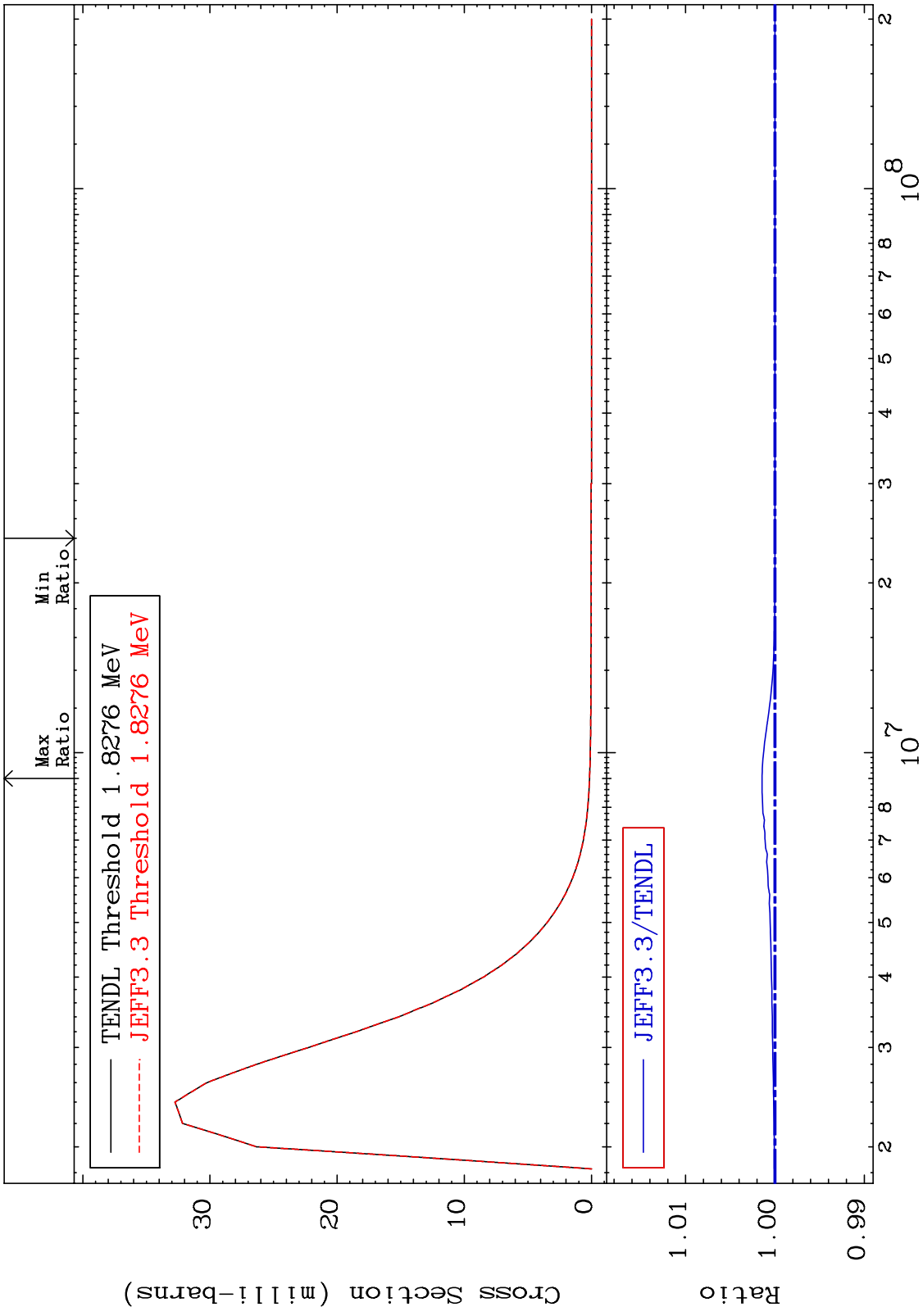
MAT 3034 MT= 74 (n,n') Level Cross Section 30-Zn-67 To 0.159 %



MAT 3034 MT= 75 (n,n') Level Cross Section 30-Zn-67 To 0.159 %

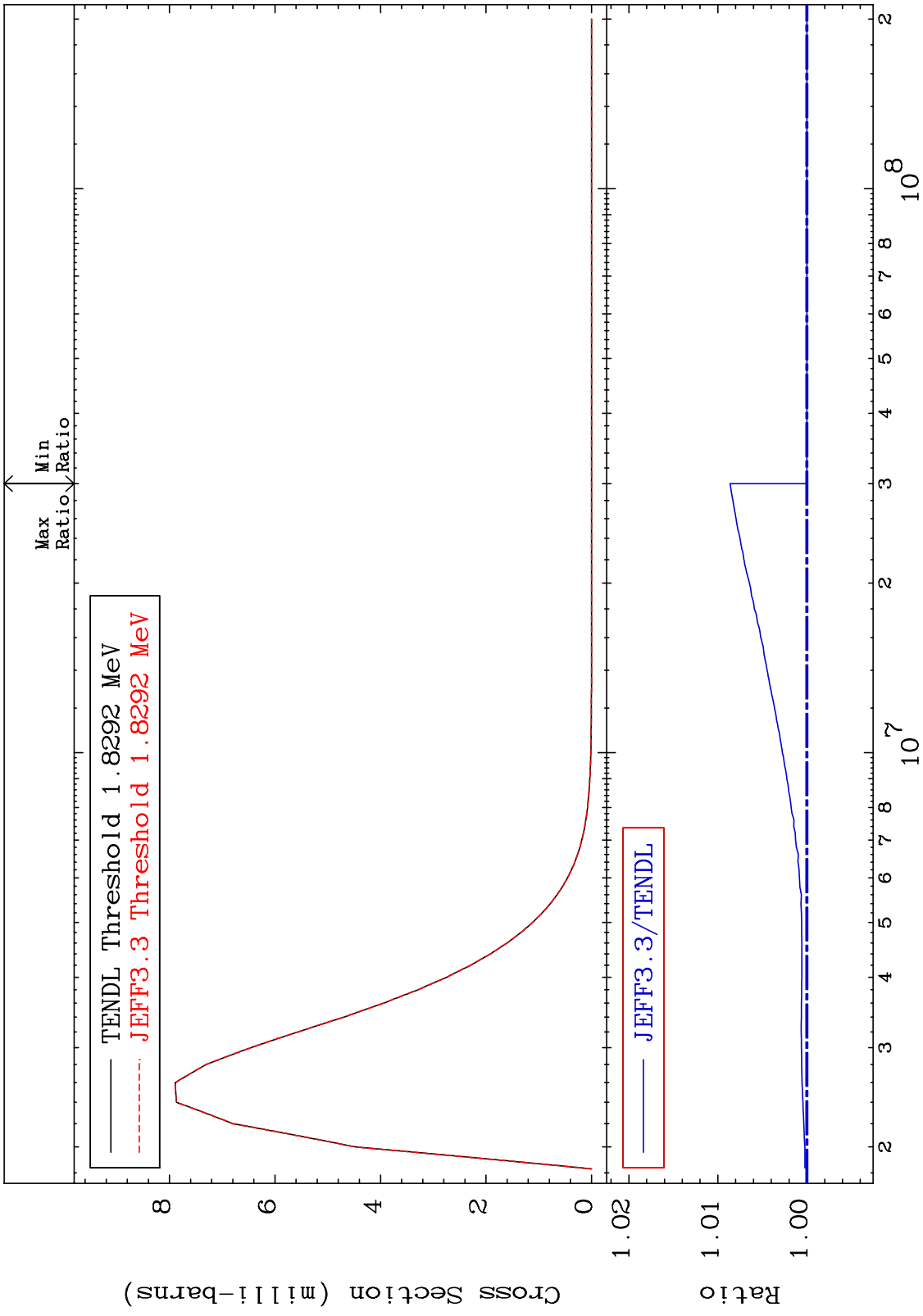


MAT 3034 MT= 76 (n,n') Level Cross Section 30-Zn-67 To 0.145 %

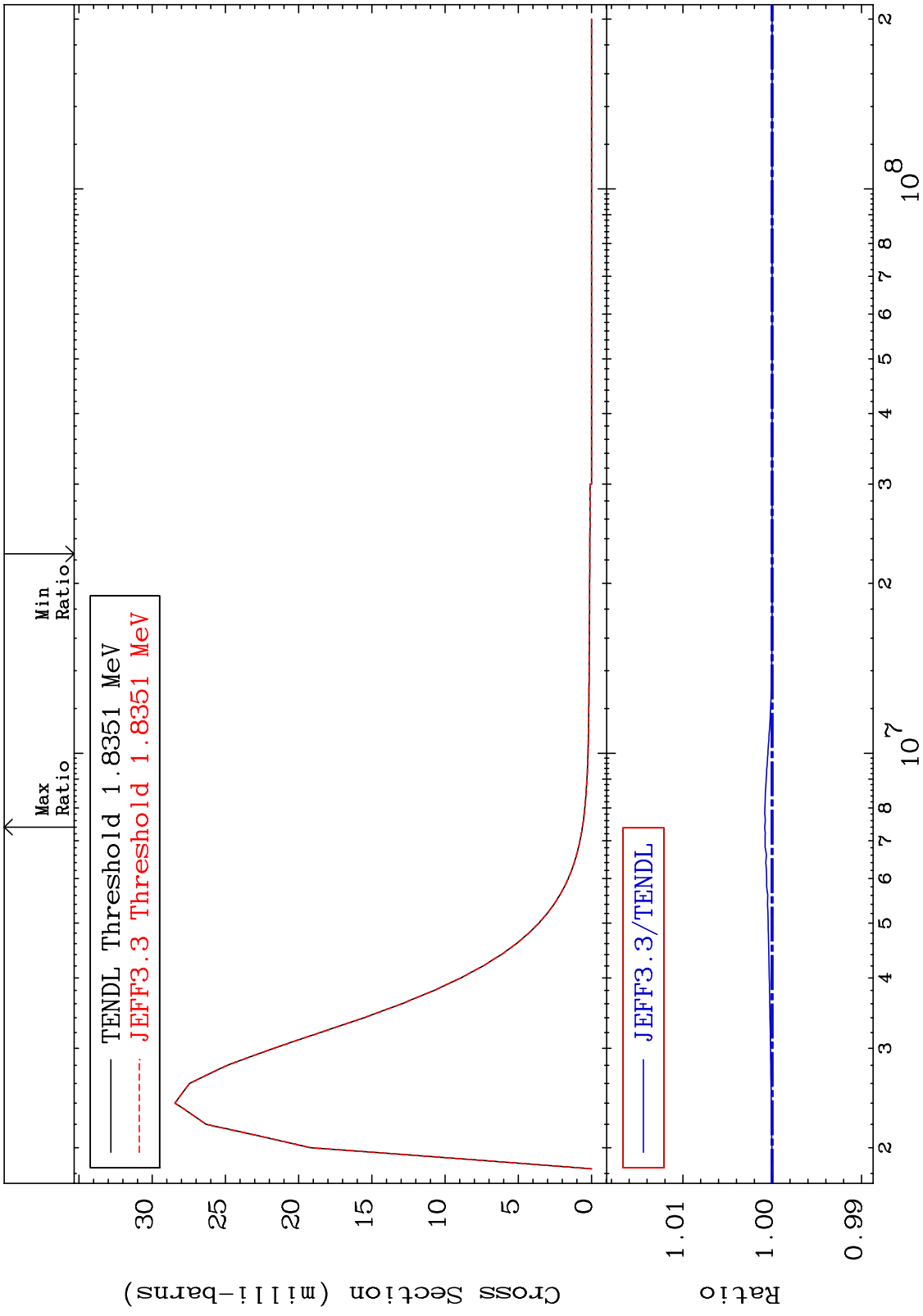


45 30-Zn-67 Incident Energy (eV)

MAT 3034 MT= 77 (n,n') Level Cross Section 30-Zn-67 To 0.864 %

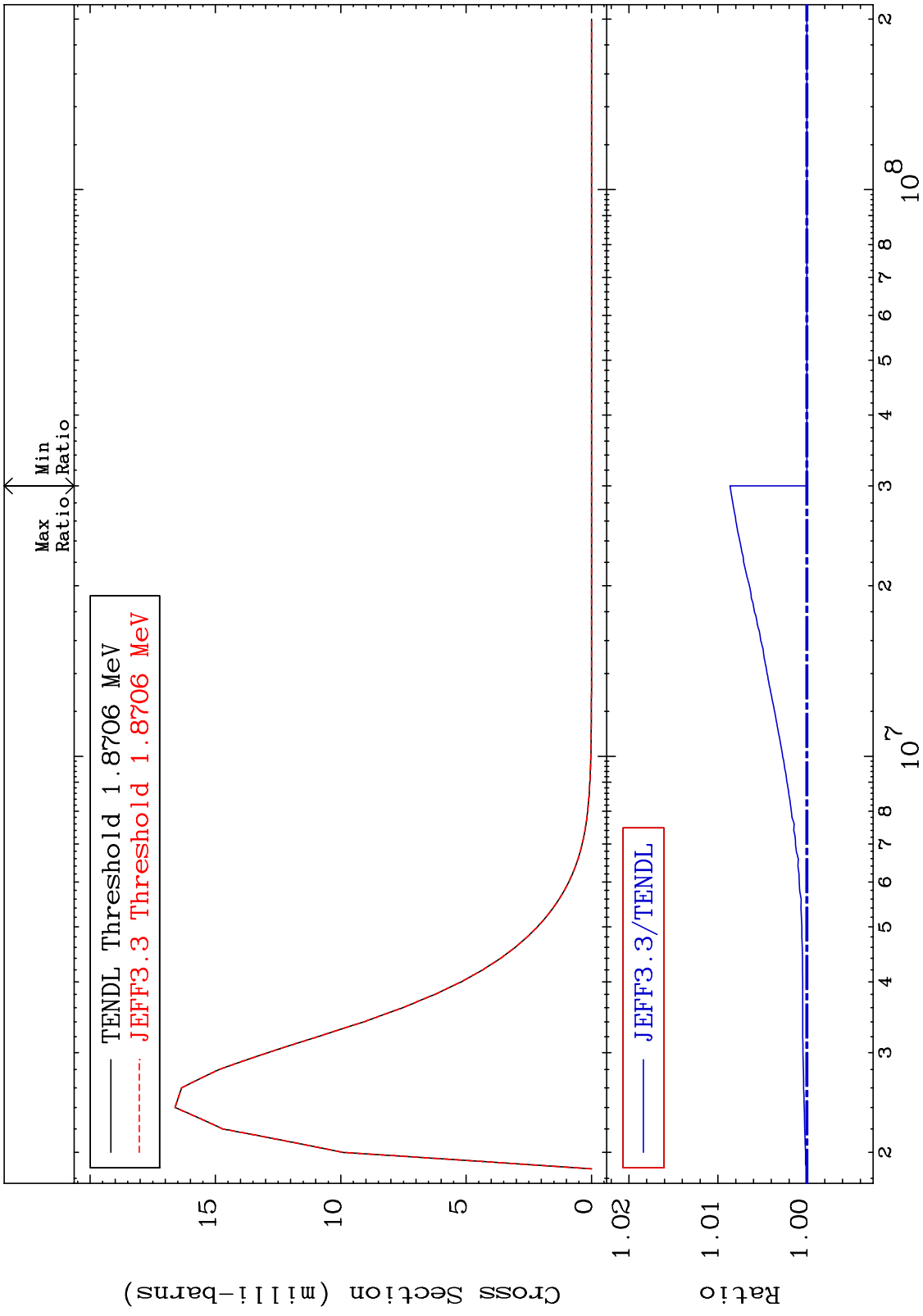


MAT 3034 MT= 78 (n,n') Level Cross Section 30-Zn-67 To 0.084 %

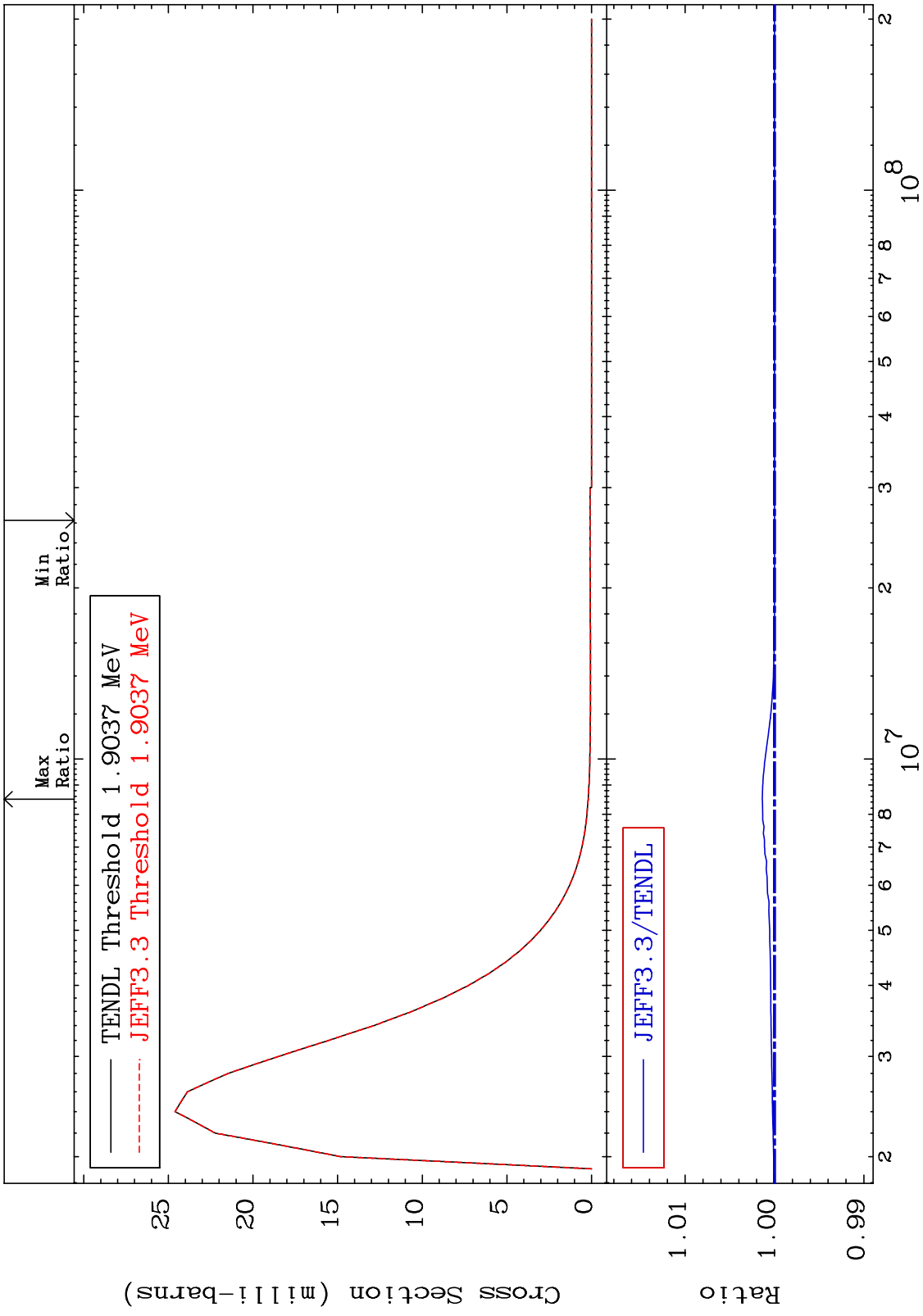




MAT 3034 MT= 79 (n,n') Level Cross Section 30-Zn-67 To 0.865 %



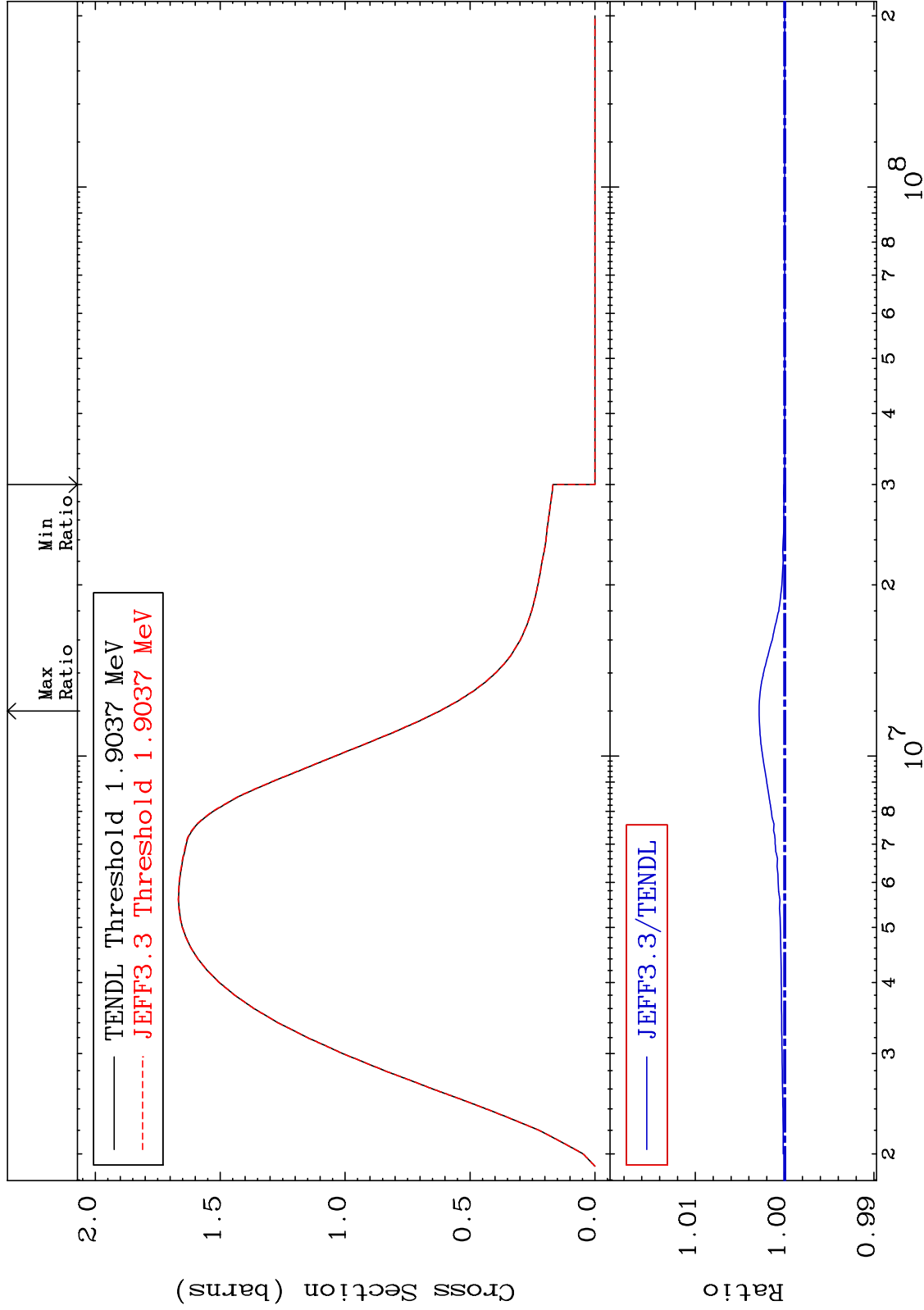
MAT 3034 MT= 80 (n,n') Level Cross Section 30-Zn-67 To 0.136 %



MAT 3034

(n, n') Continuum  
Cross Section

30-Zn-67  
To 0.287 %



50

Incident Energy (eV)

30-Zn-67

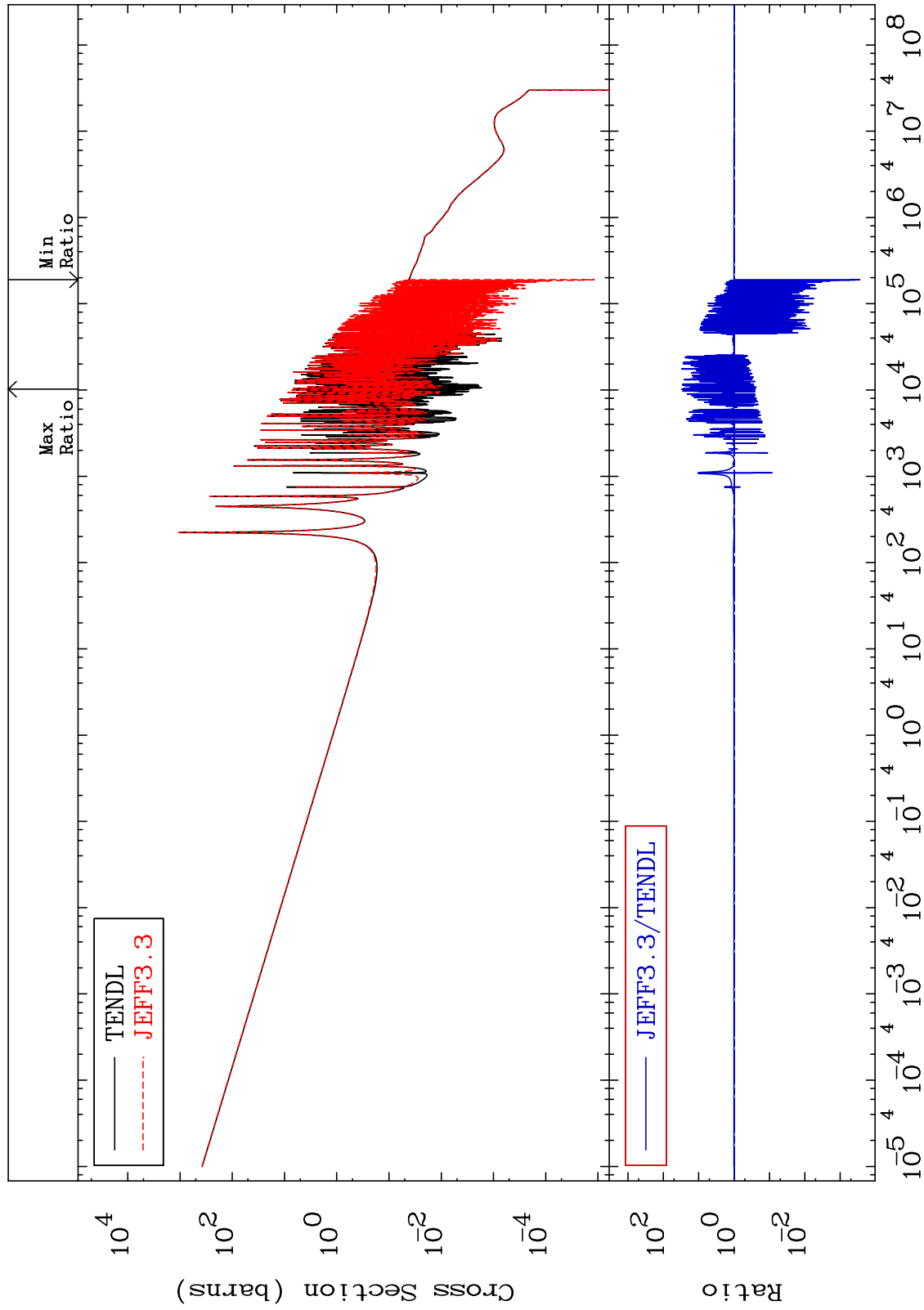
MAT 3034

(n,  $\gamma$ )

30-Zn-67

Cross Section

-99.97 To 2976. %



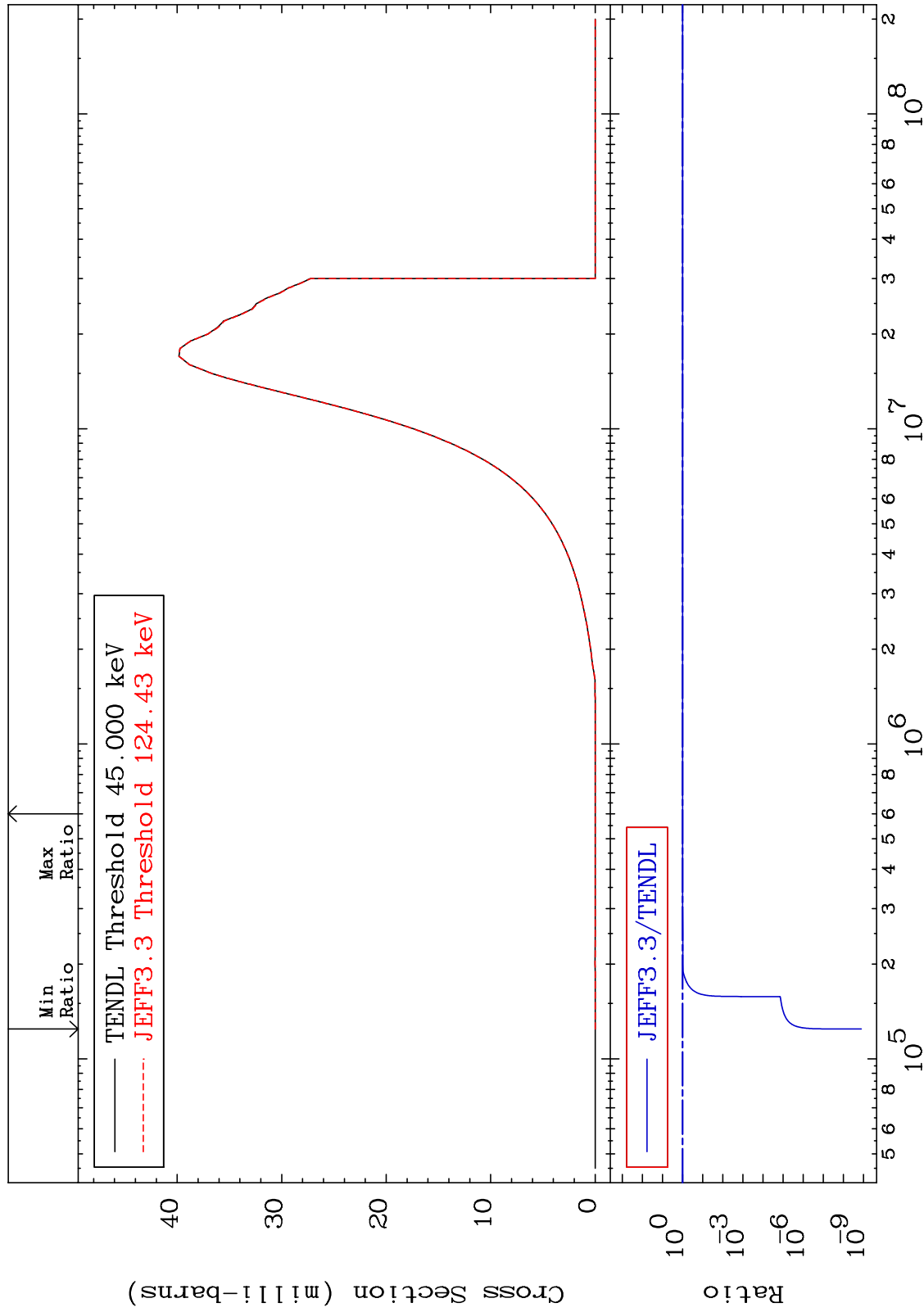
MAT 3034

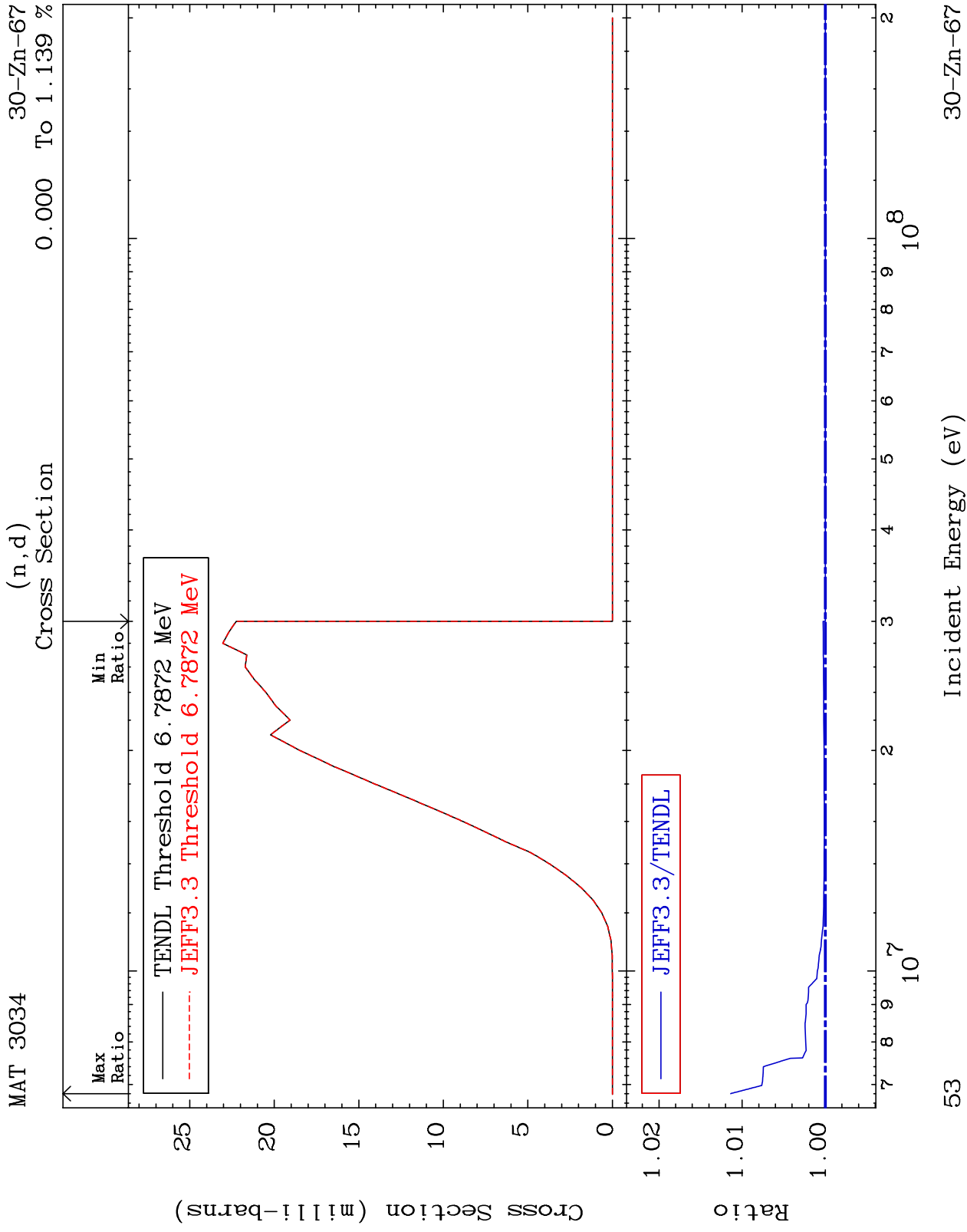
(n,p)

30-Zn-67

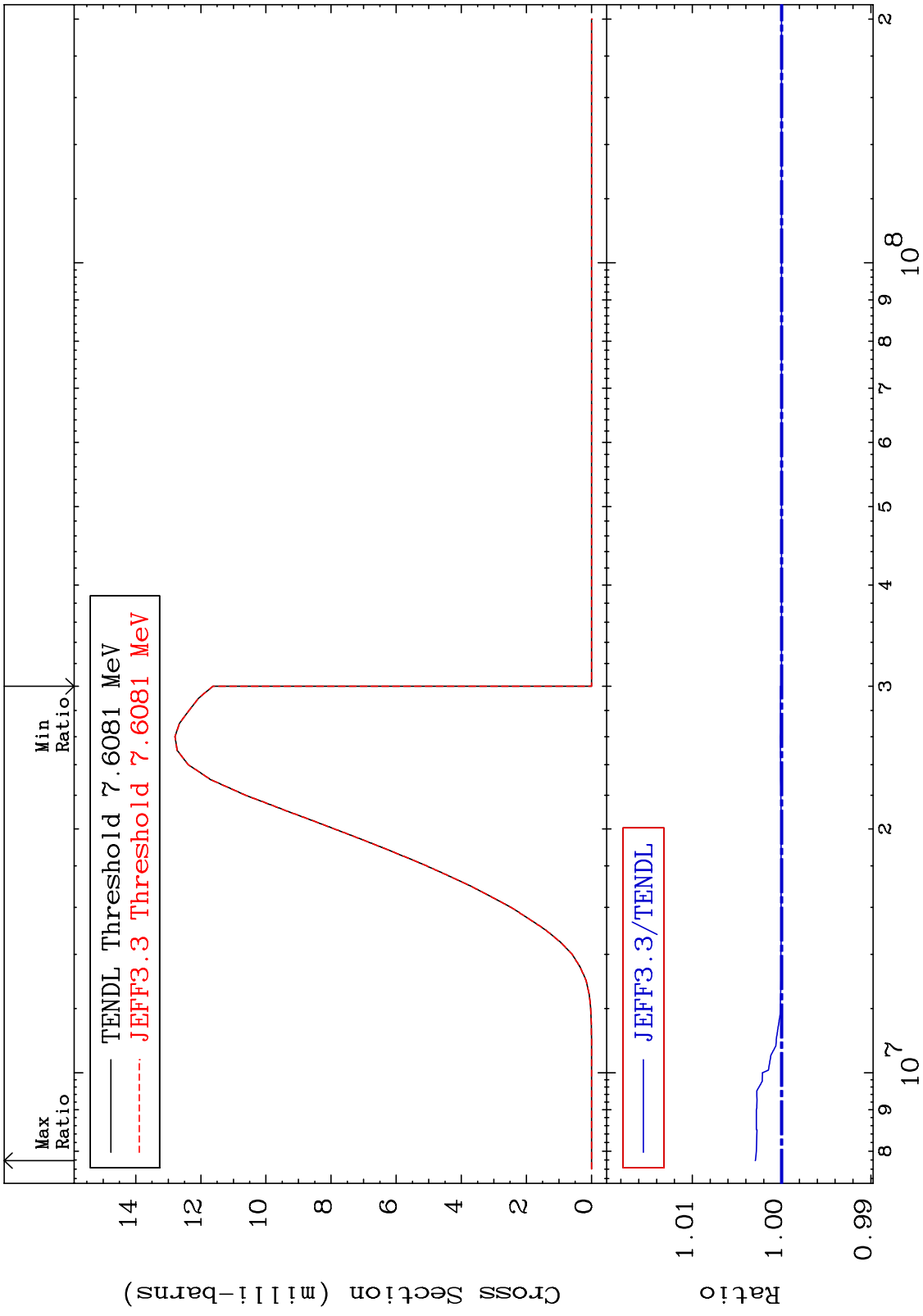
Cross Section

-100.0 To 0.000 %

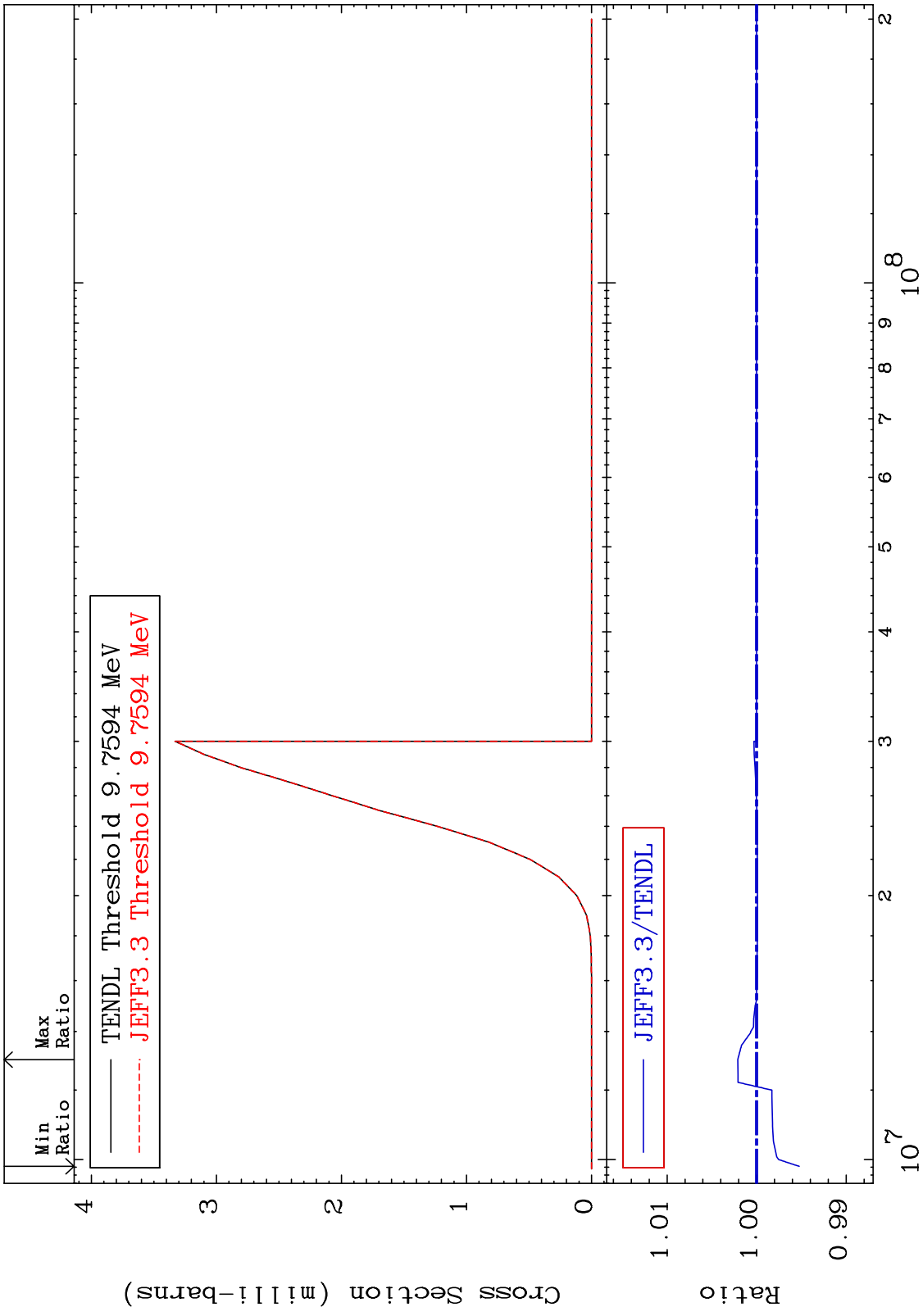




MAT 3034 (n,t) Cross Section 30-Zn-67 To 0.295 %



MAT 3034 (n, He-3) 30-Zn-67  
 Cross Section -0.475 To 0.211 %



55 30-Zn-67



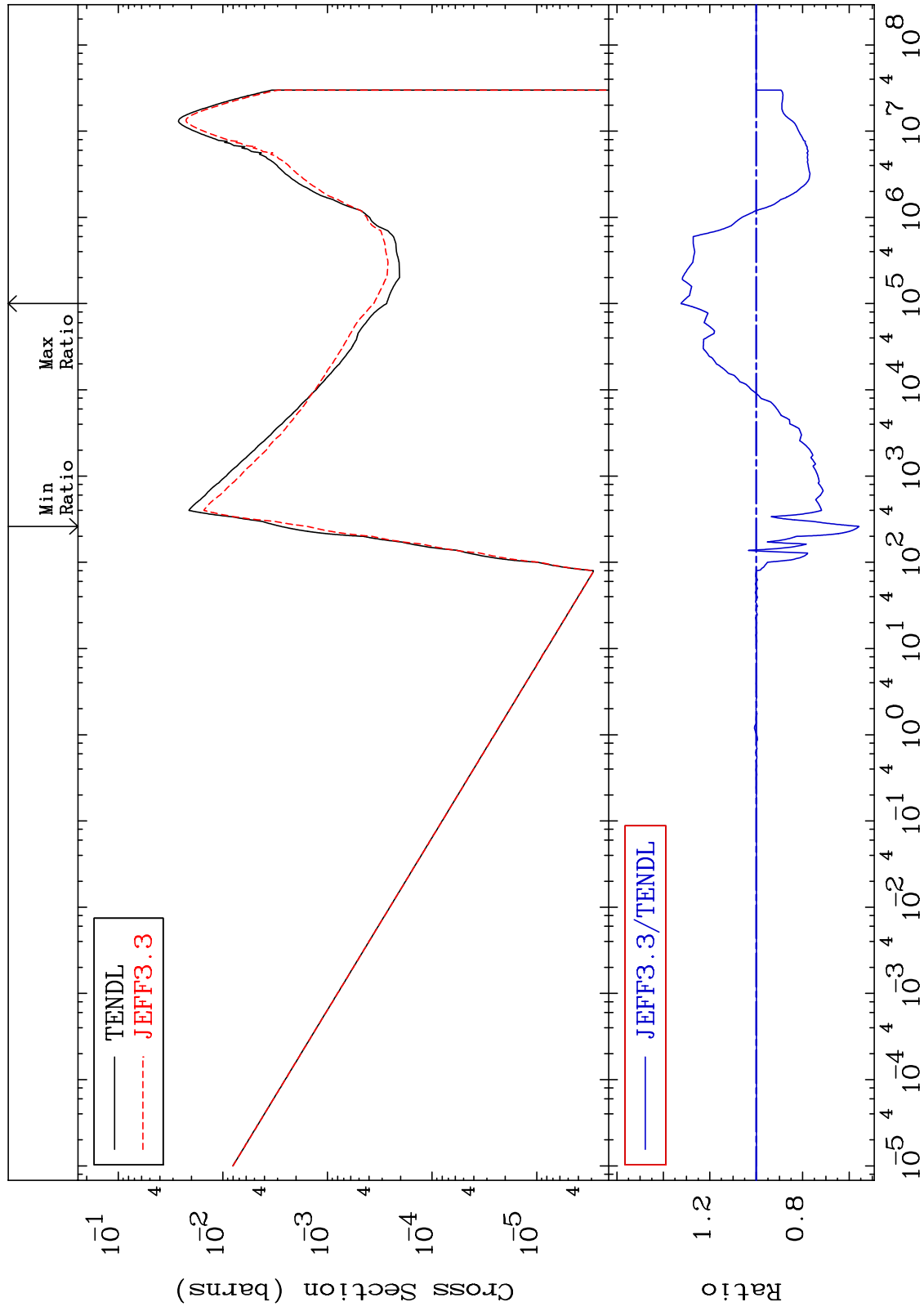
MAT 3034

(n,  $\alpha$ )

30-Zn-67

Cross Section

-44.28 To 32.45 %



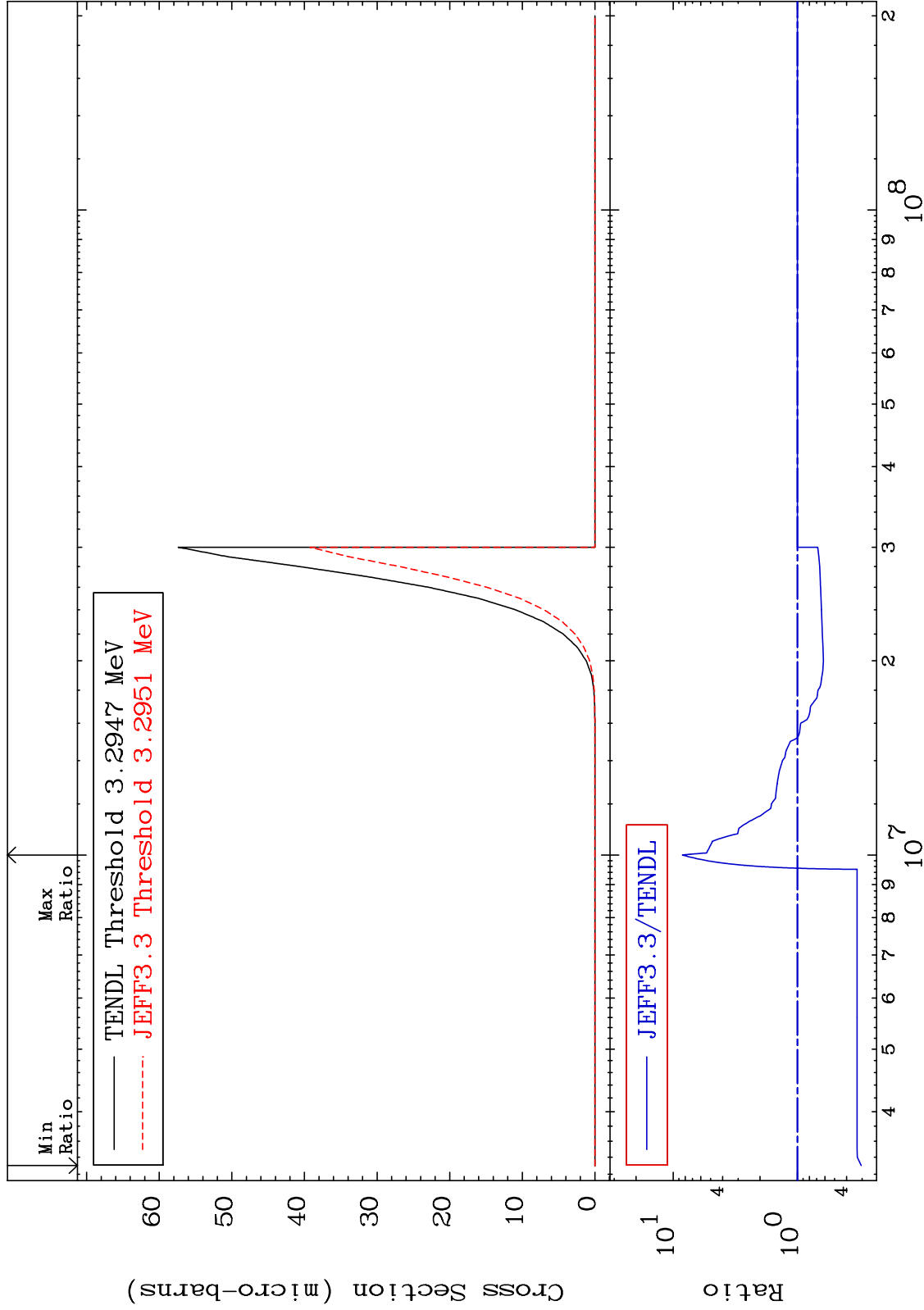
MAT 3034

(n,2α)

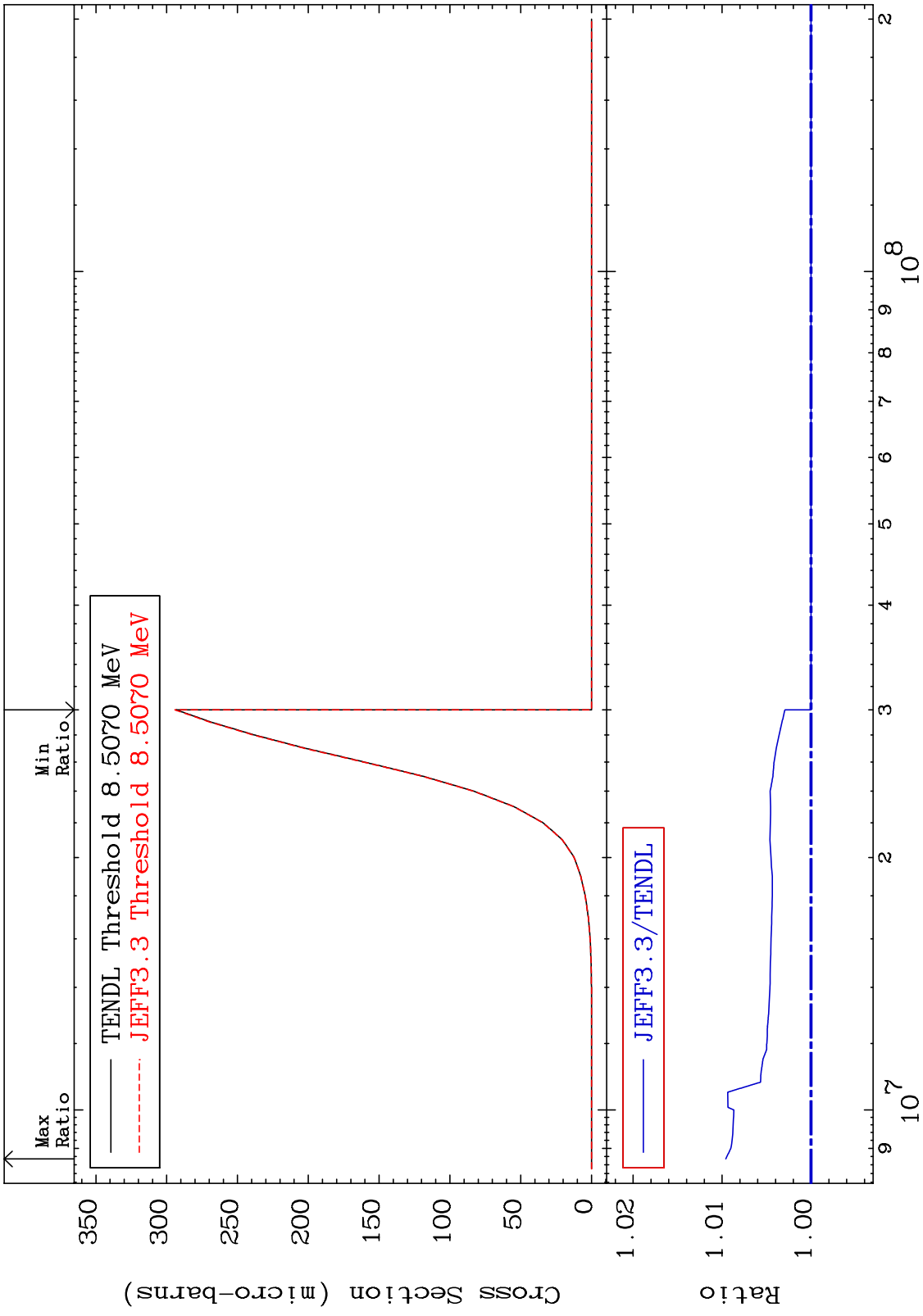
30-Zn-67

Cross Section

-69.49 To 743.8 %

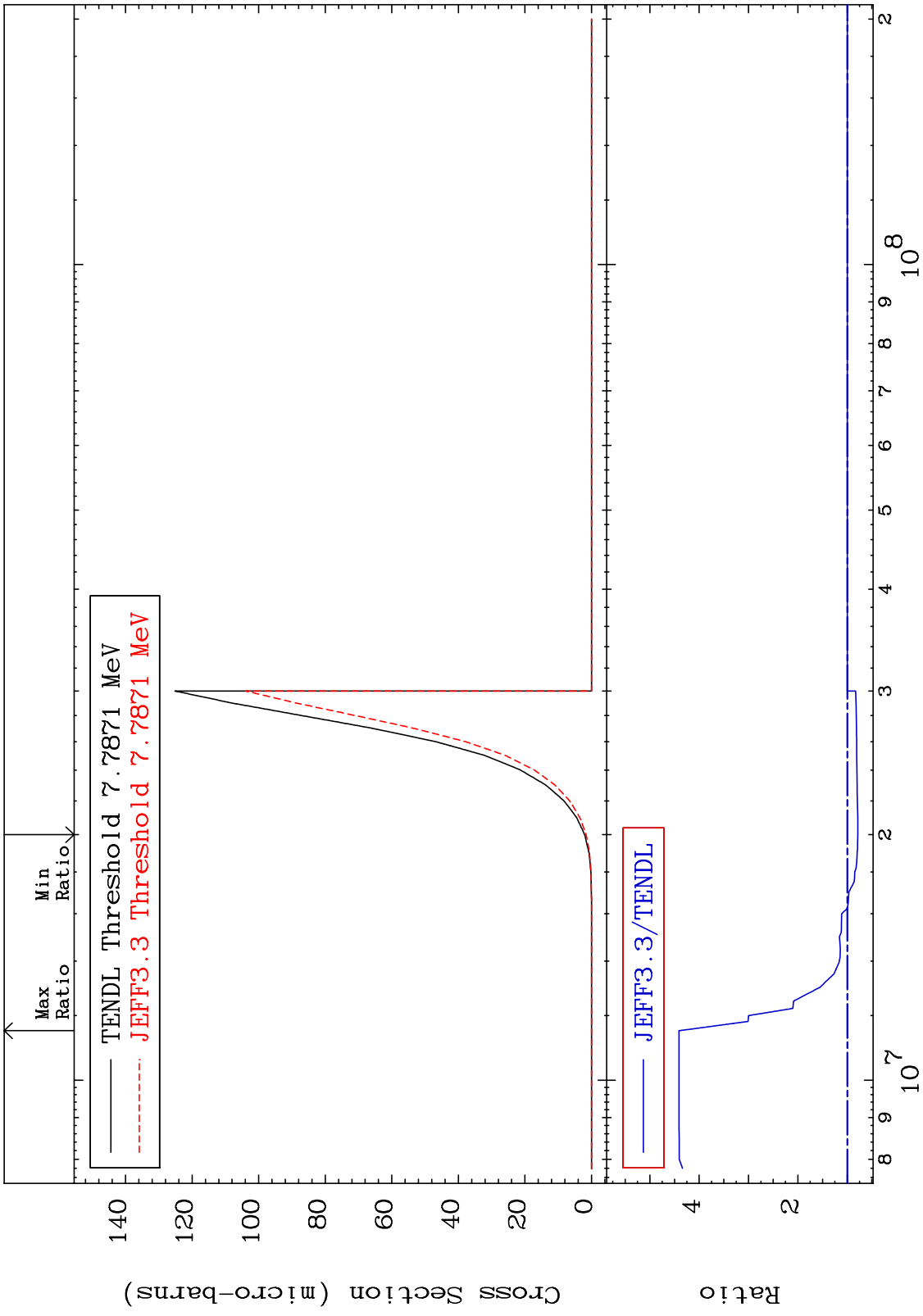


MAT 3034 (n,2p) Cross Section 30-Zn-67 To 0.959 %

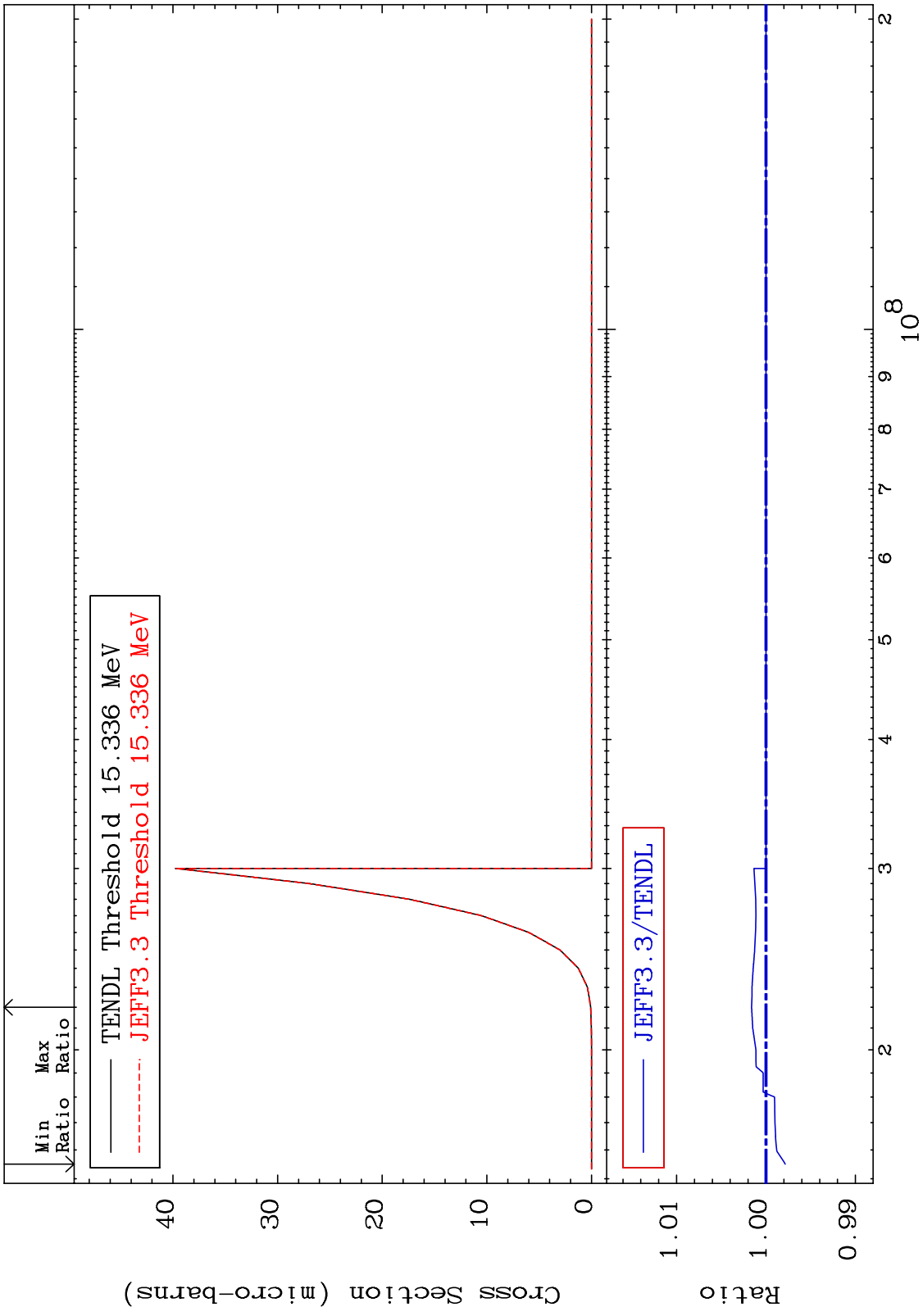


58 30-Zn-67

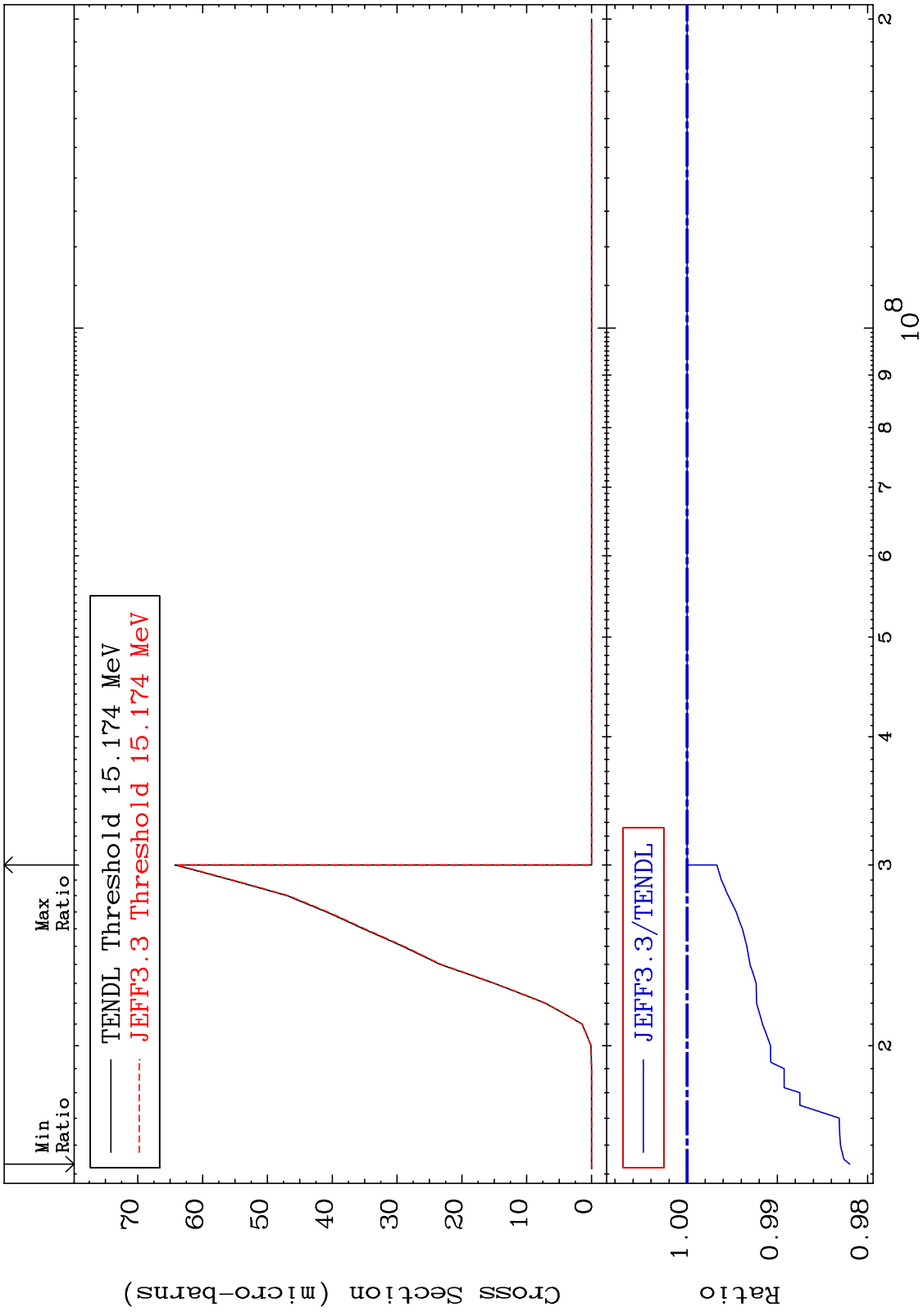
MAT 3034  $(n,p) \alpha$  30-Zn-67  
 Cross Section -21.57 To 340.8 %



MAT 3034 (n,p) d 30-Zn-67  
 Cross Section -0.216 To 0.161 %



MAT 3034 (n,p) t 30-Zn-67  
 Cross Section -1.803 To 0.000 %



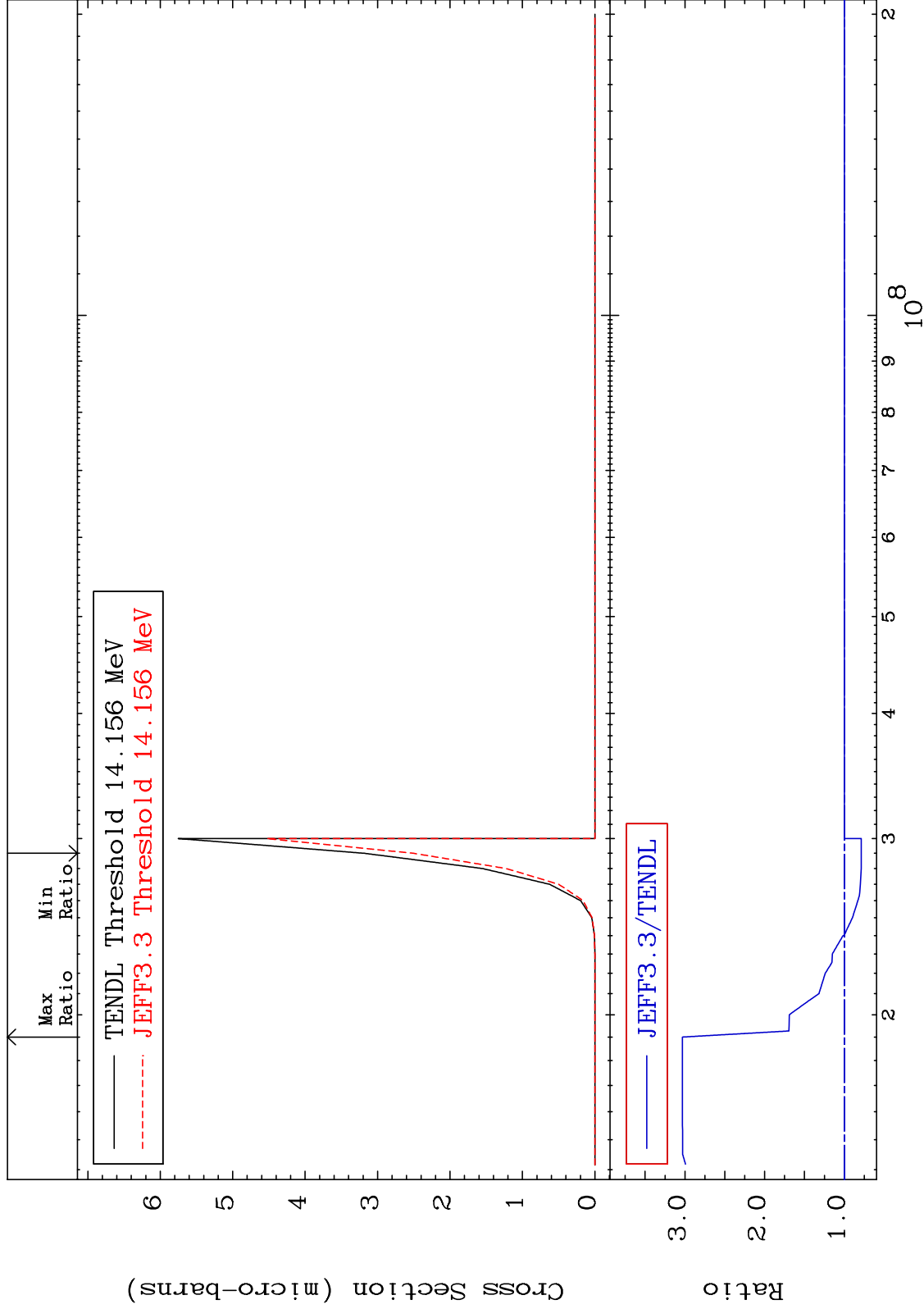
MAT 3034

(n,d)  $\alpha$

30-Zn-67

Cross Section

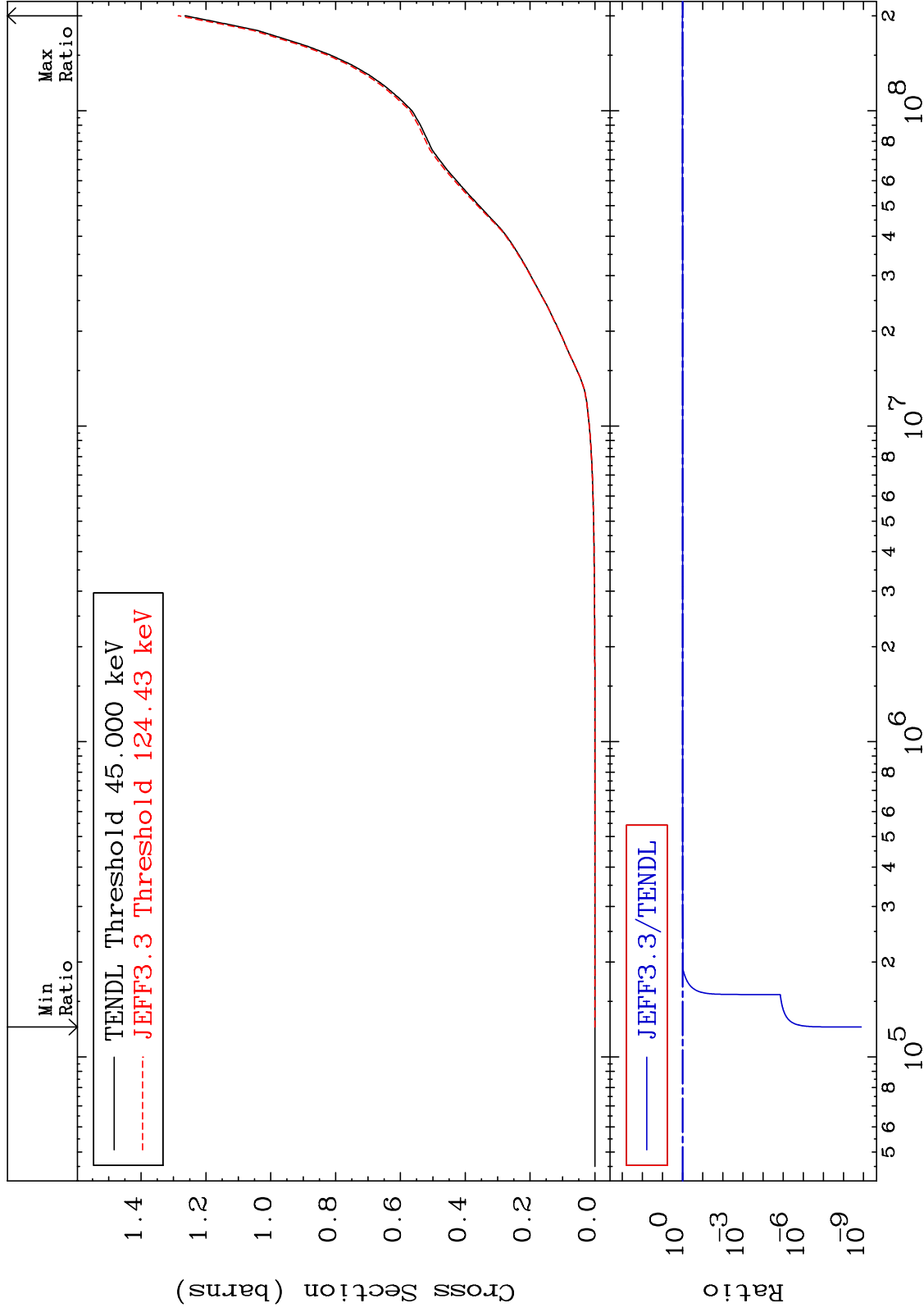
-21.28 To 203.1 %



MAT 3034

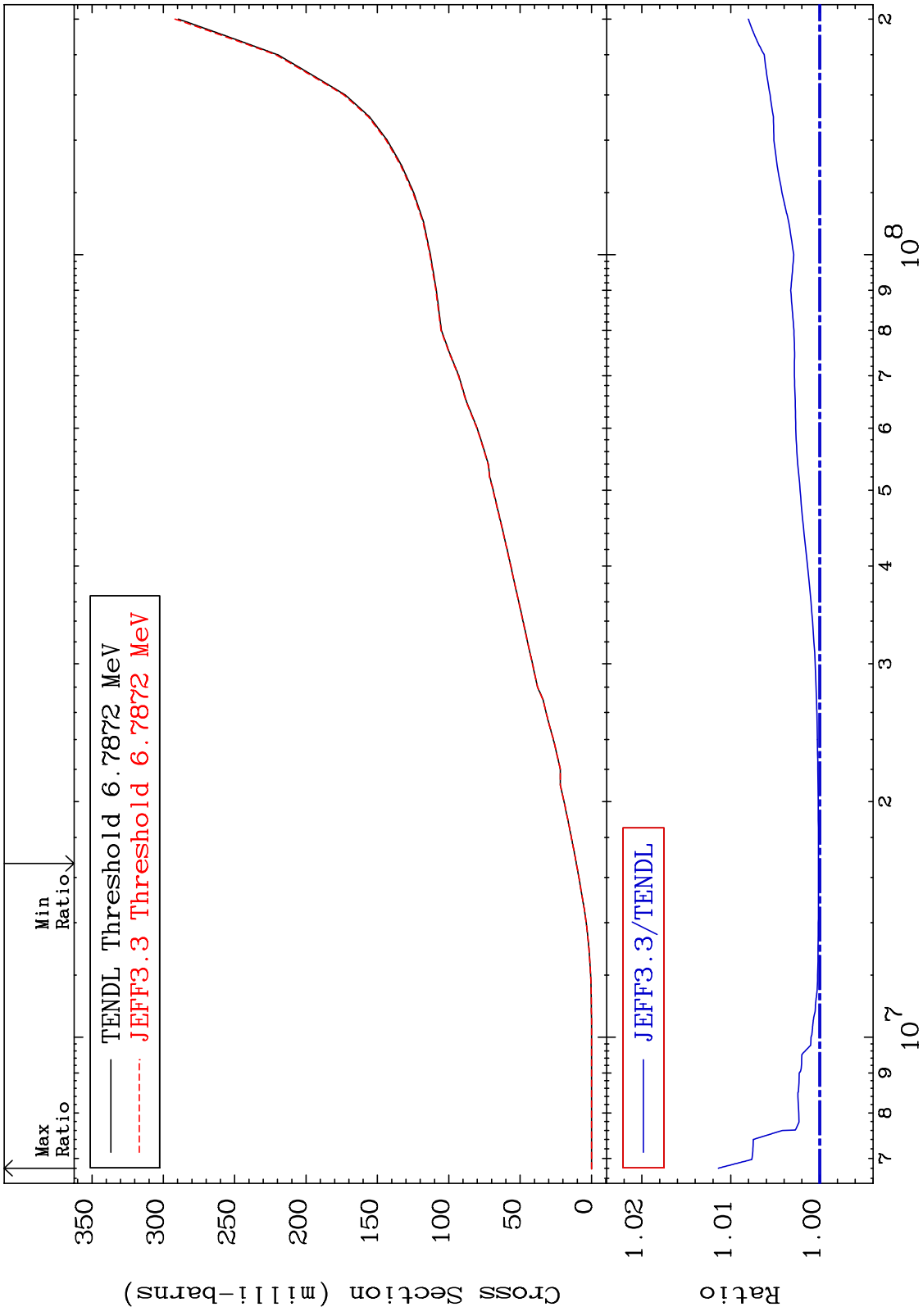
Hydrogen Production  
Cross Section

30-Zn-67  
-100.0 To 1.648 %





MAT 3034 Deuterium Production Cross Section 30-Zn-67 To 1.139 %

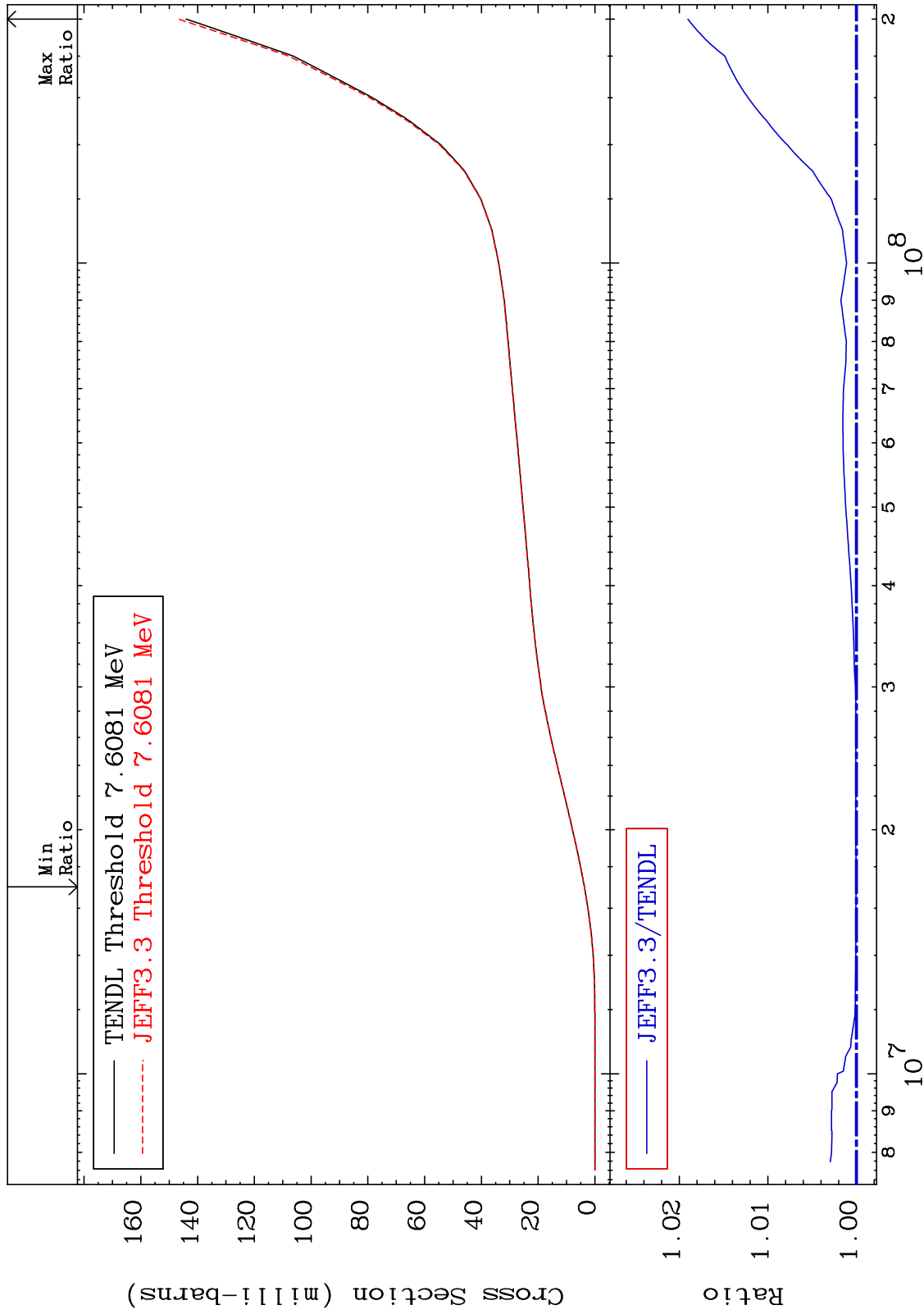


64 30-Zn-67

MAT 3034

Tritium Production  
Cross Section

30-Zn-67  
0.006 To 1.903 %



65

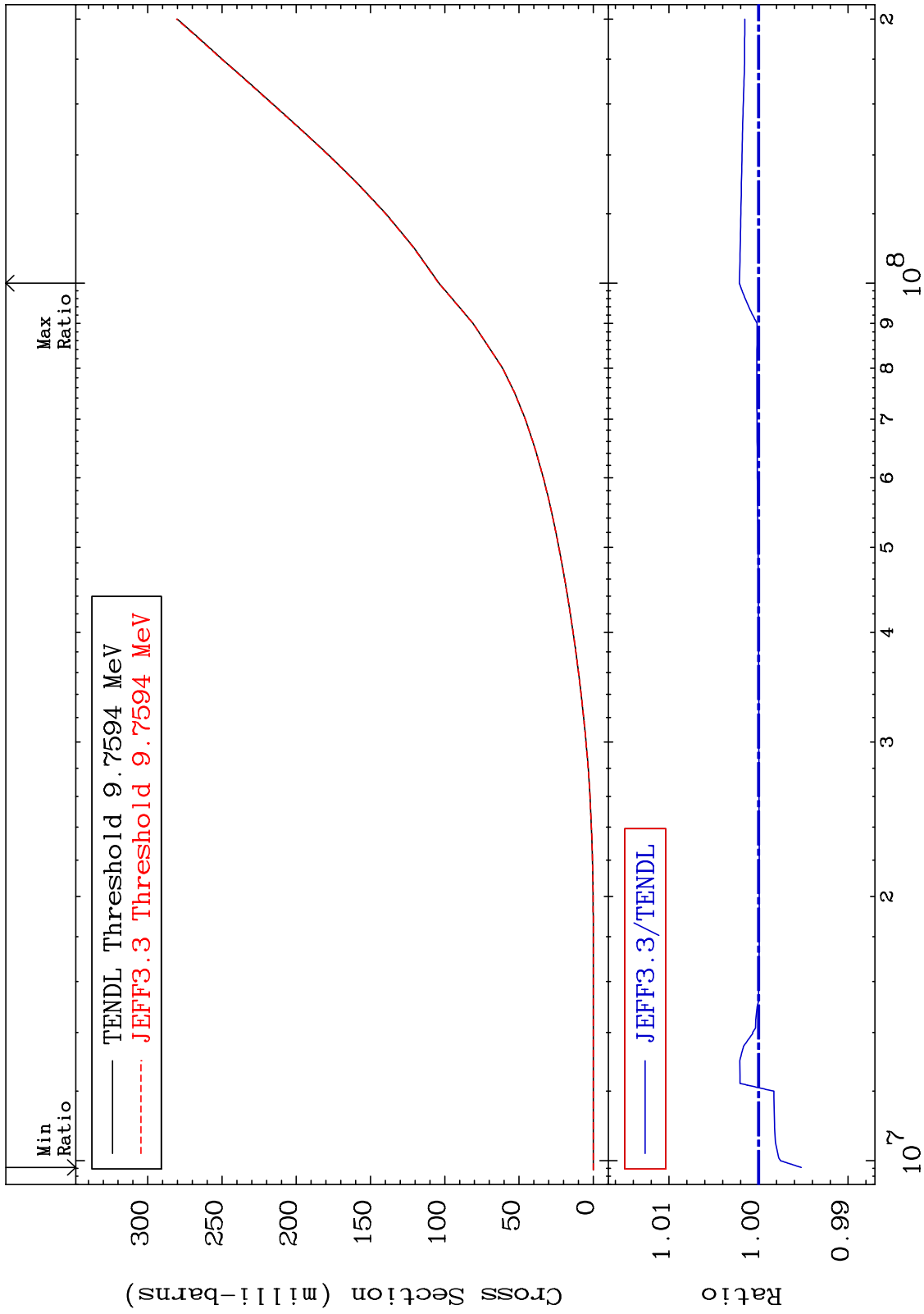
Incident Energy (eV)

30-Zn-67

MAT 3034

He-3 Production  
Cross Section

30-Zn-67  
-0.475 To 0.215 %



66

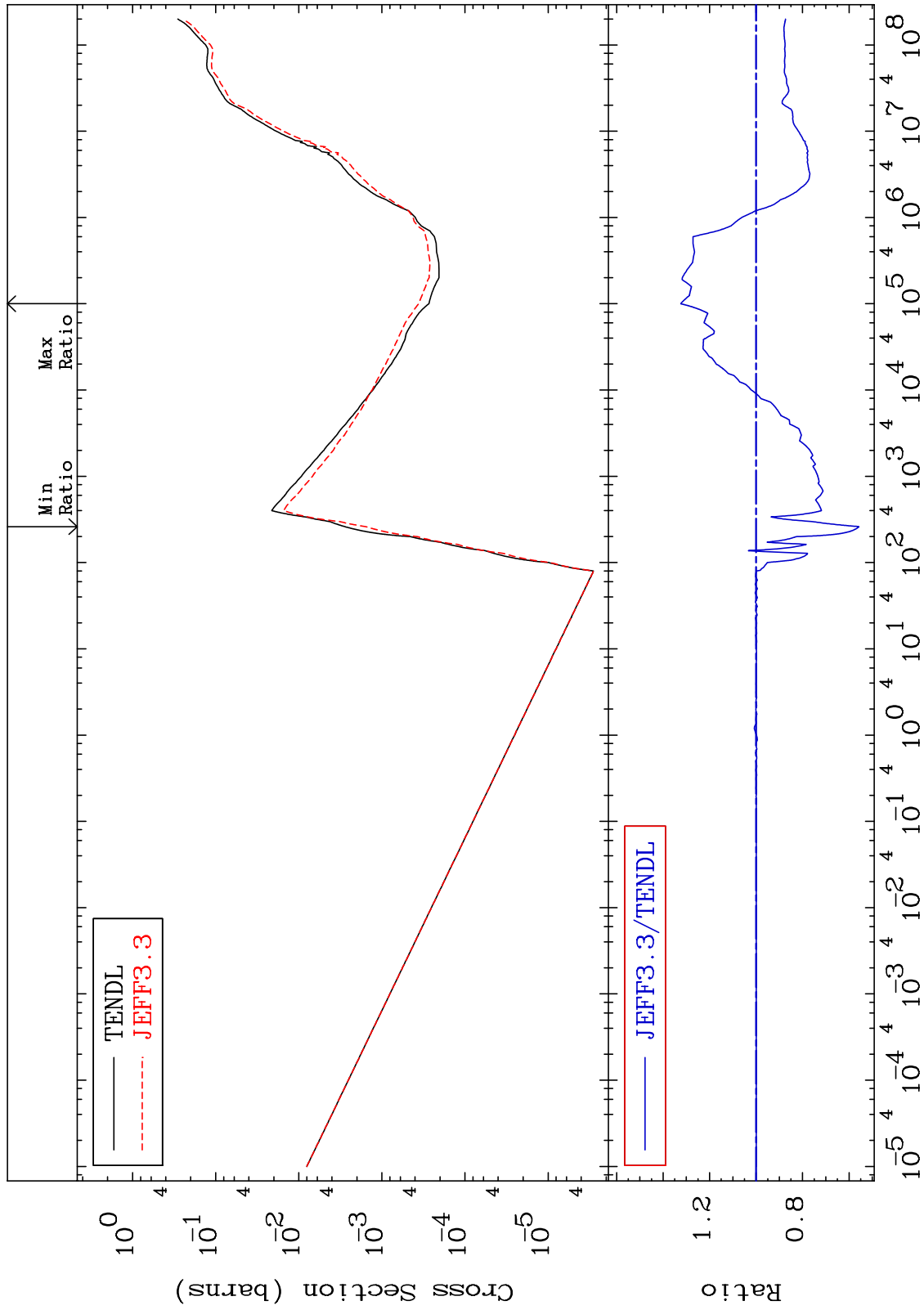
Incident Energy (eV)

30-Zn-67

MAT 3034

He-4 Production  
Cross Section

30-Zn-67  
-44.28 To 32.45 %

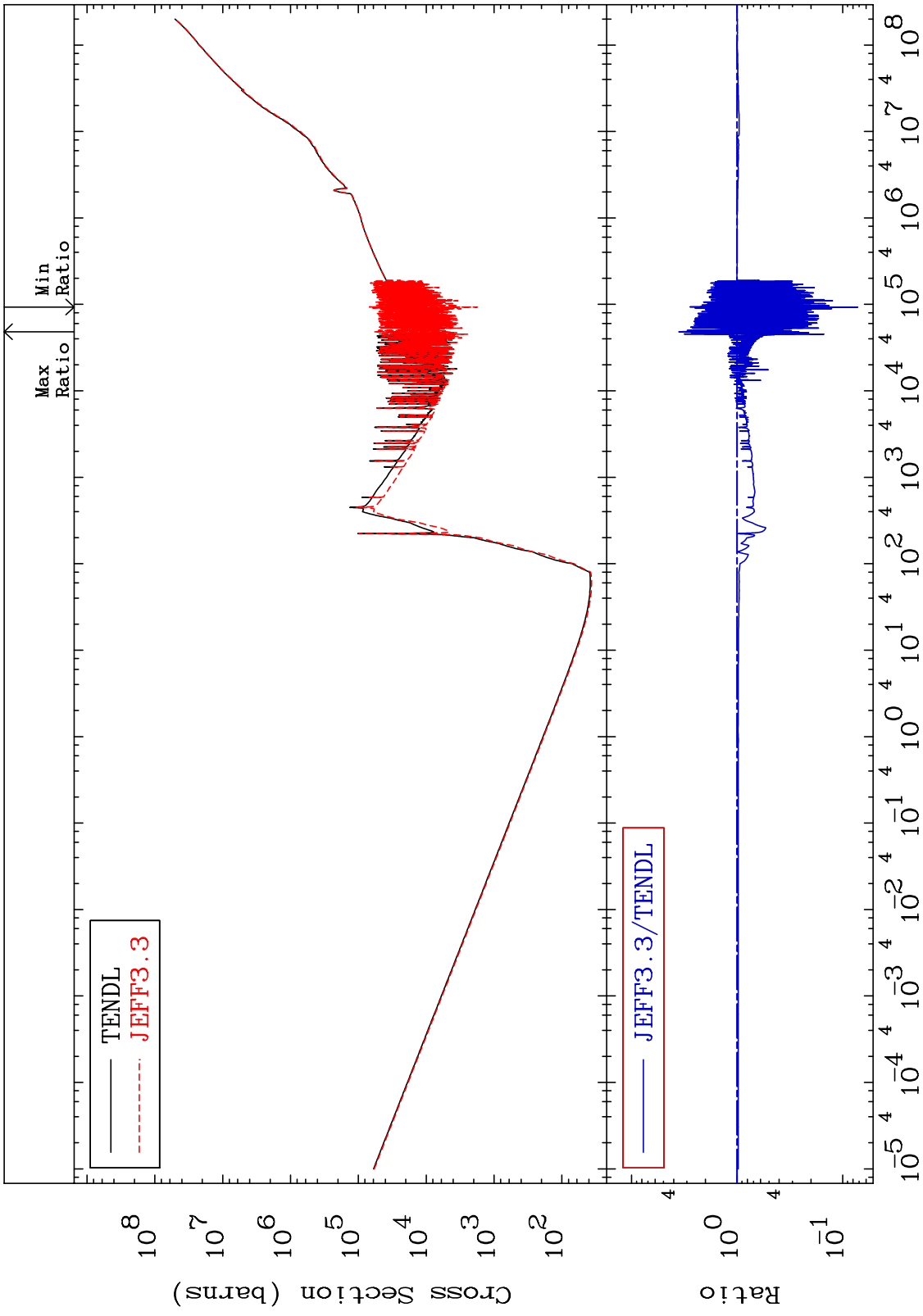


67

Incident Energy (eV)

30-Zn-67

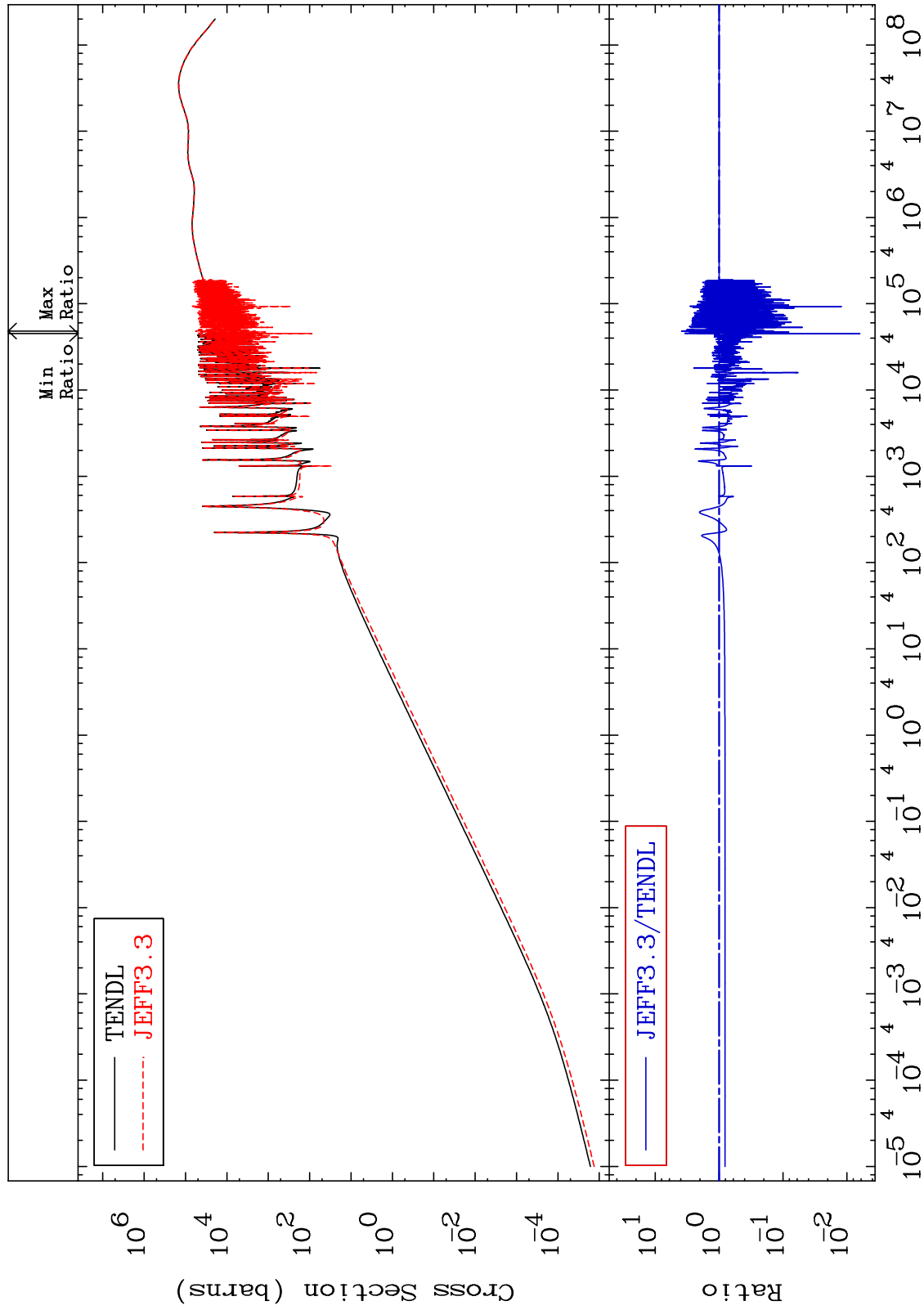
MAT 3034 Kerma total (eV-barns) Cross Section 30-Zn-67 -92.81 To 255.5 %



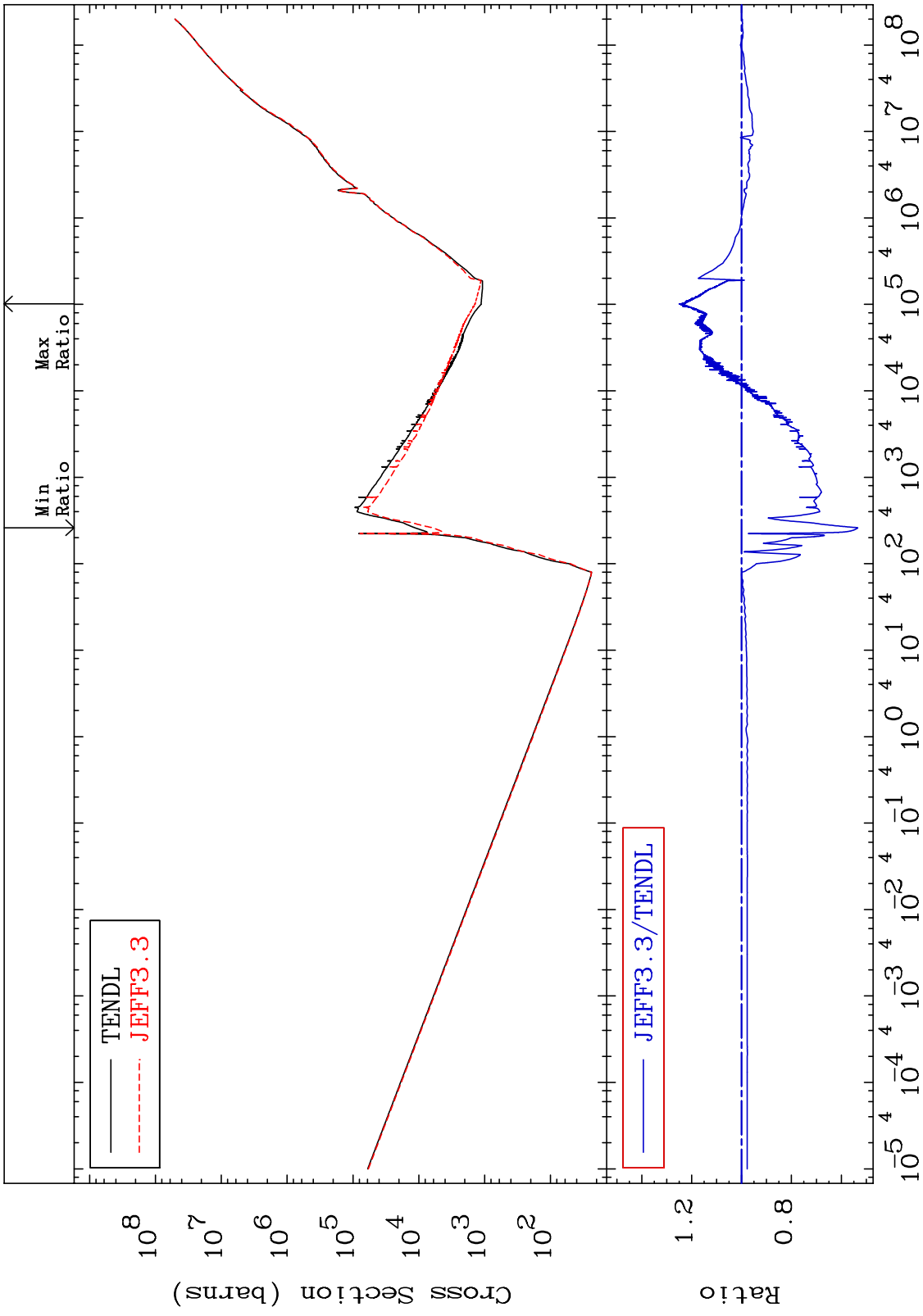
MAT 3034

Kerma elastic  
Cross Section

30-Zn-67  
-99.37 To 289.2 %



MAT 3034      Kerma non-elastic (all but mt2)      30-Zn-67  
 Cross Section      -46.63 To 25.05 %

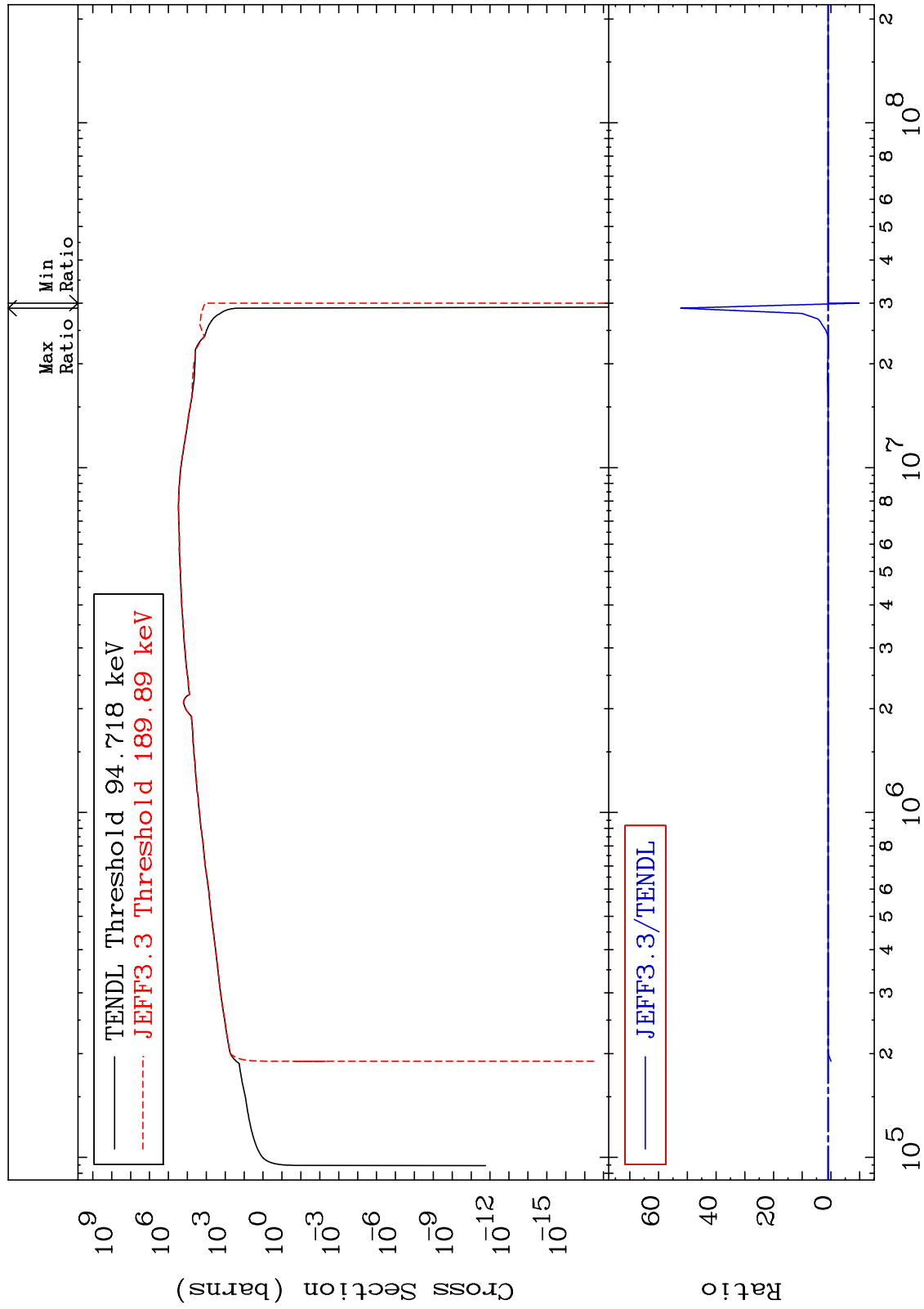


70      Incident Energy (eV)      30-Zn-67

MAT 3034

Kerma inelastic (mt51-91)  
Cross Section

30-Zn-67  
-1077. To 5125. %



71

Incident Energy (eV)

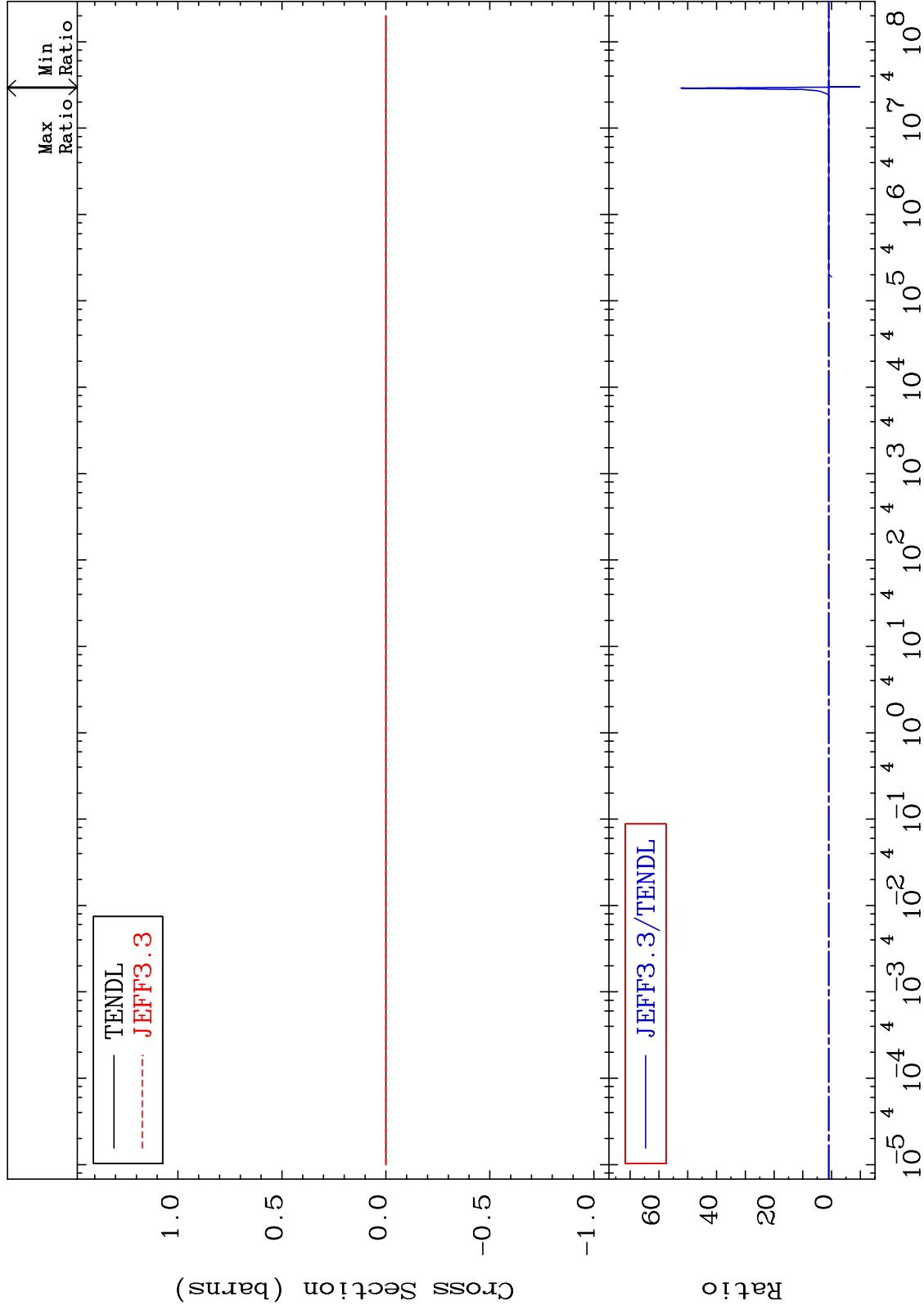
30-Zn-67



MAT 3034

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

30-Zn-67  
-1077. To 5125. %



72

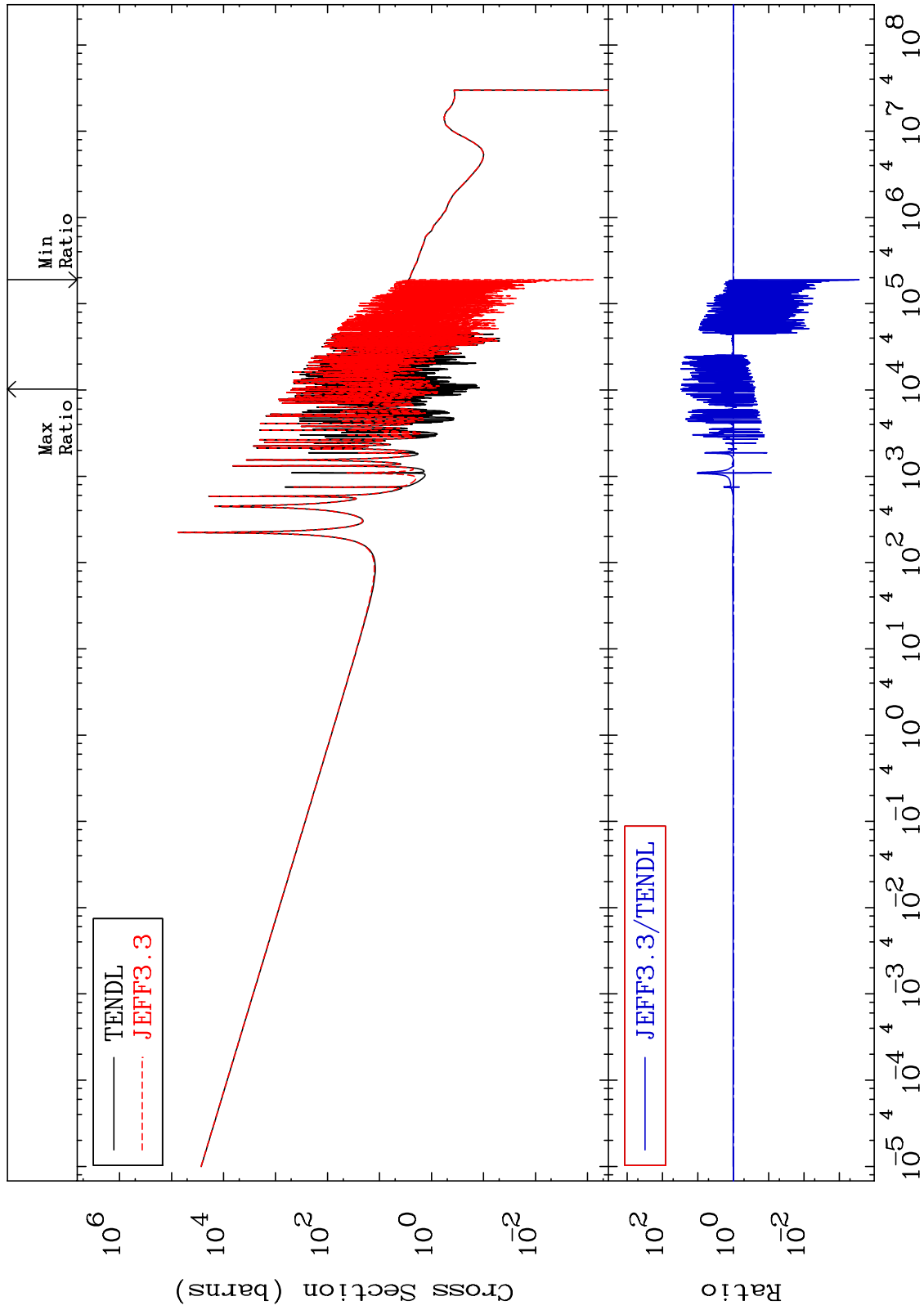
Incident Energy (eV)

30-Zn-67

MAT 3034

Kerma capture (mt102)  
Cross Section

30-Zn-67  
-99.97 To 2976. %



73

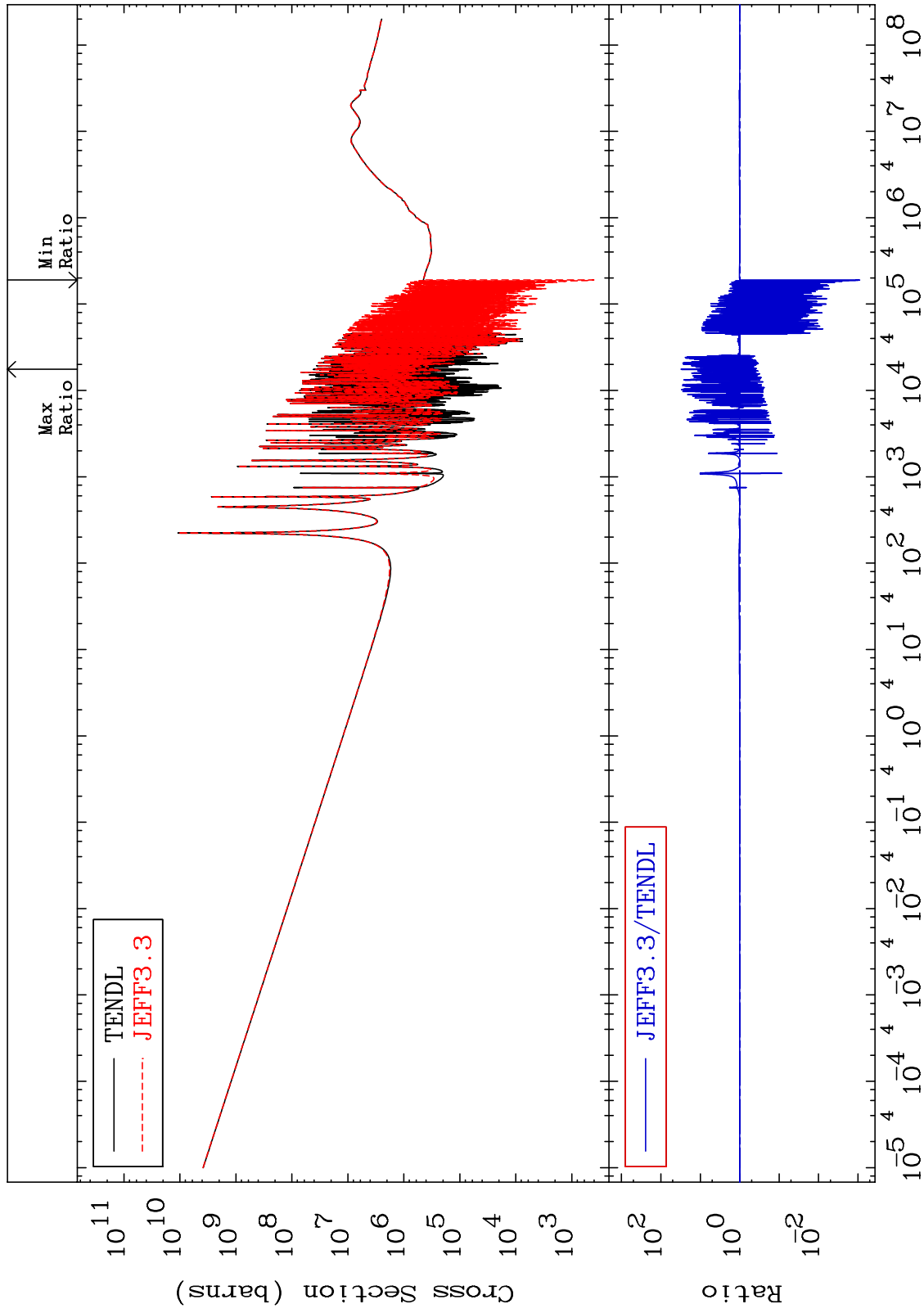
Incident Energy (eV)

30-Zn-67

MAT 3034

Total photon (eV-barns)  
Cross Section

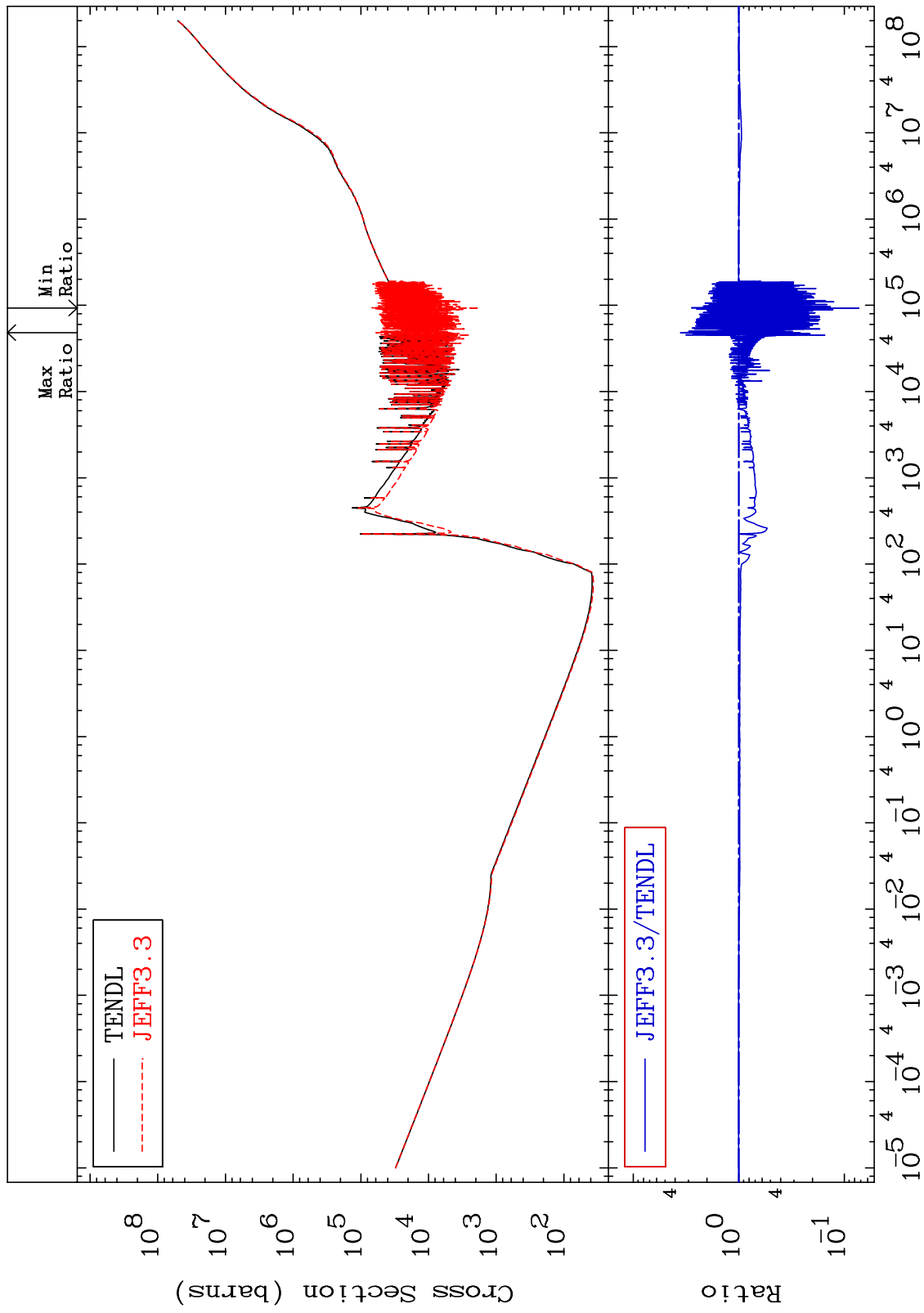
30-Zn-67  
-99.91 To 2944. %



MAT 3034

Total kinematic kerma (high limit)  
Cross Section

30-Zn-67  
-92.75 To 255.3 %



75

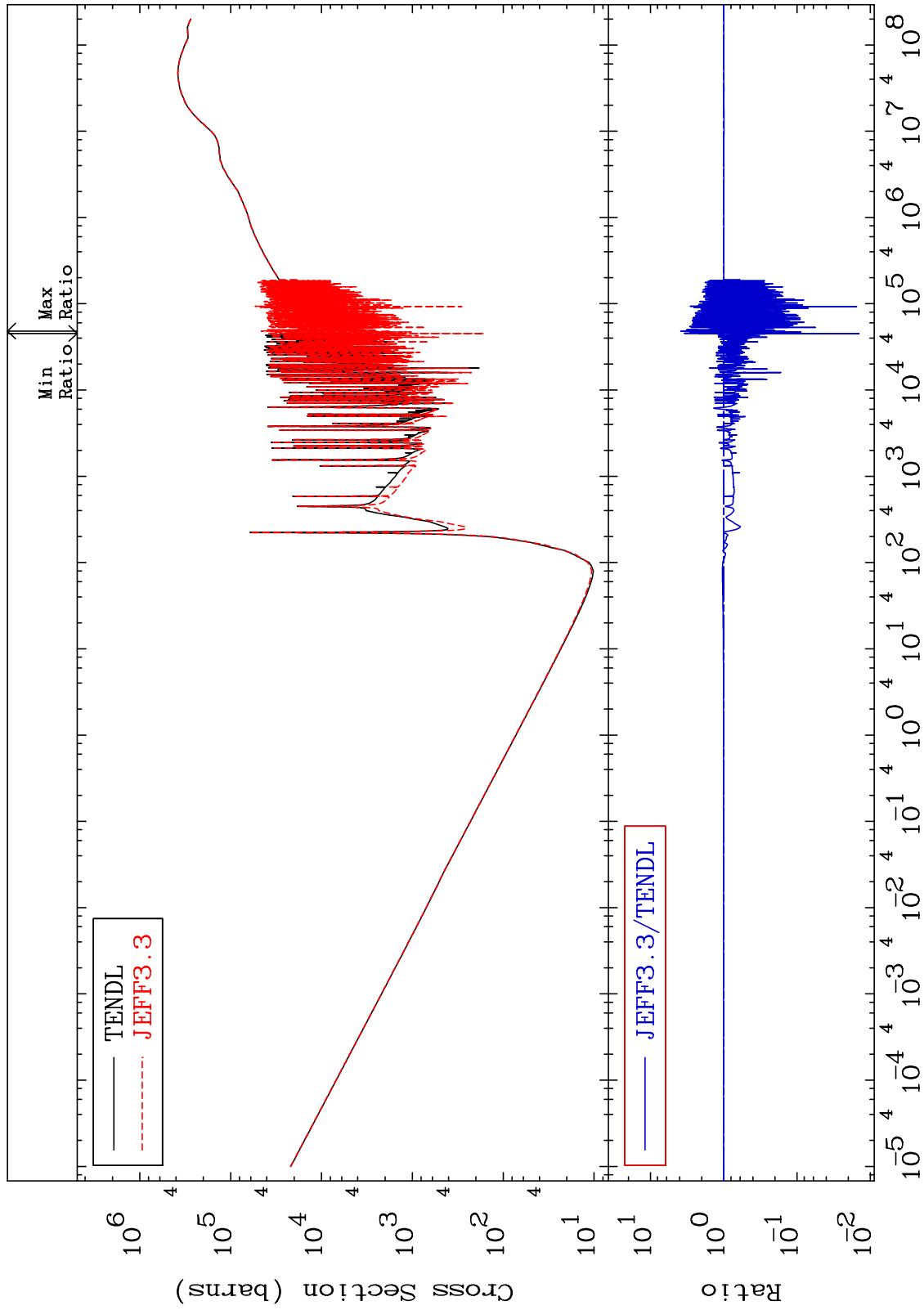
Incident Energy (eV)

30-Zn-67

MAT 3034

Dpa total (eV-barns)  
Cross Section

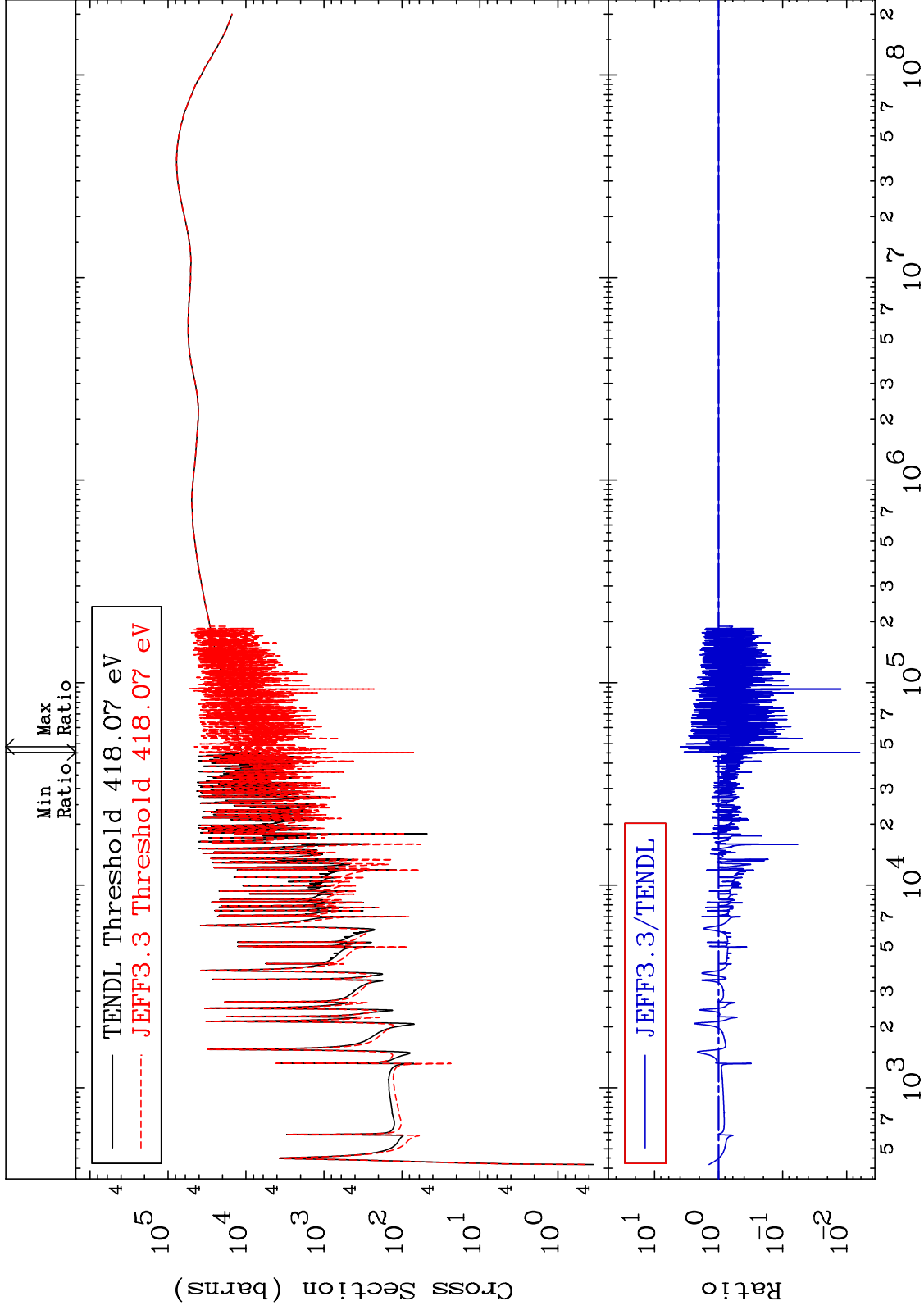
30-Zn-67  
-98.57 To 287.4 %



MAT 3034

Dpa elastic (mt2)  
Cross Section

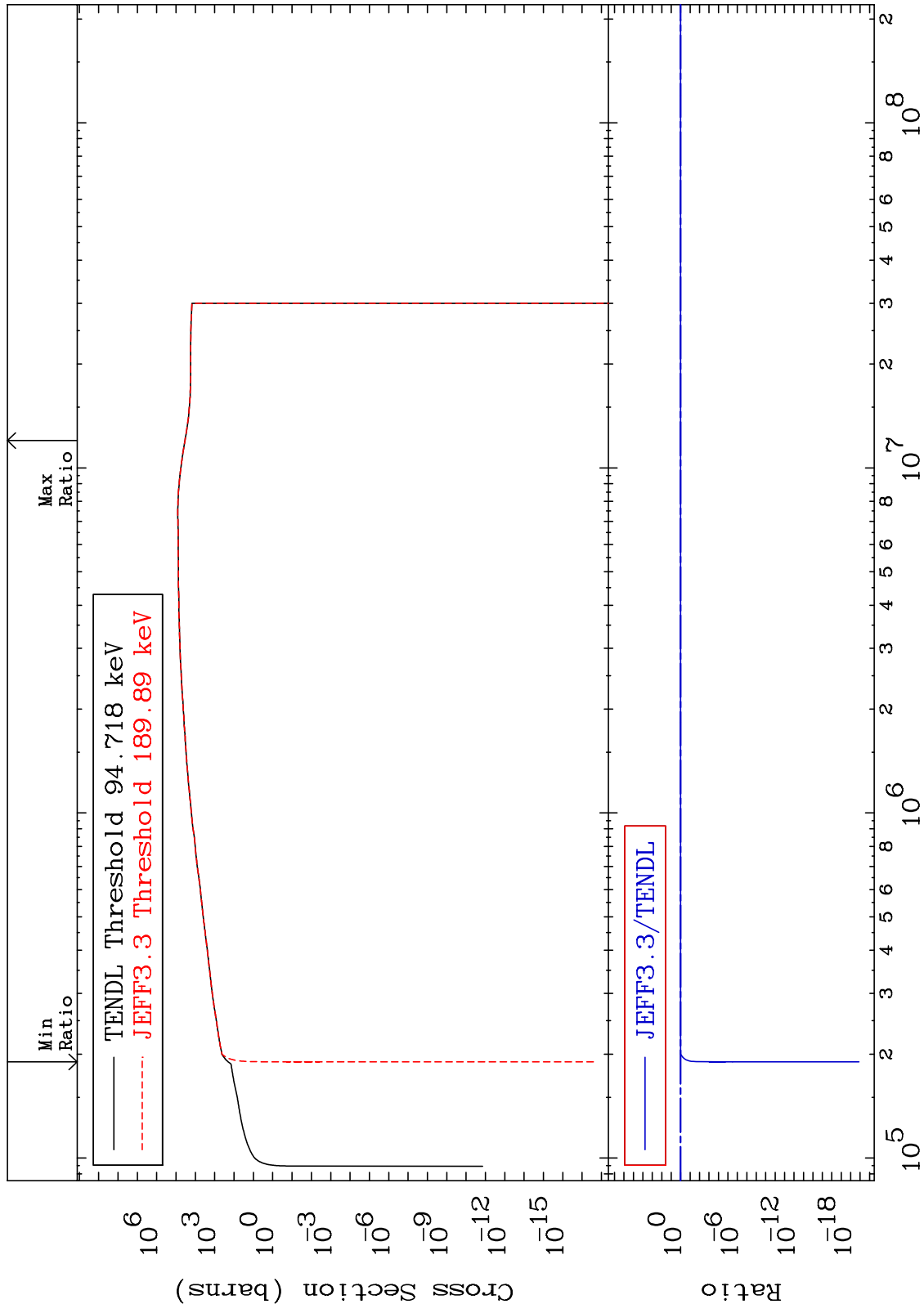
30-Zn-67  
-99.37 To 289.2 %



MAT 3034

Dpa inelastic (mt51-91)  
Cross Section

30-Zn-67  
-100.0 To 0.382 %



78

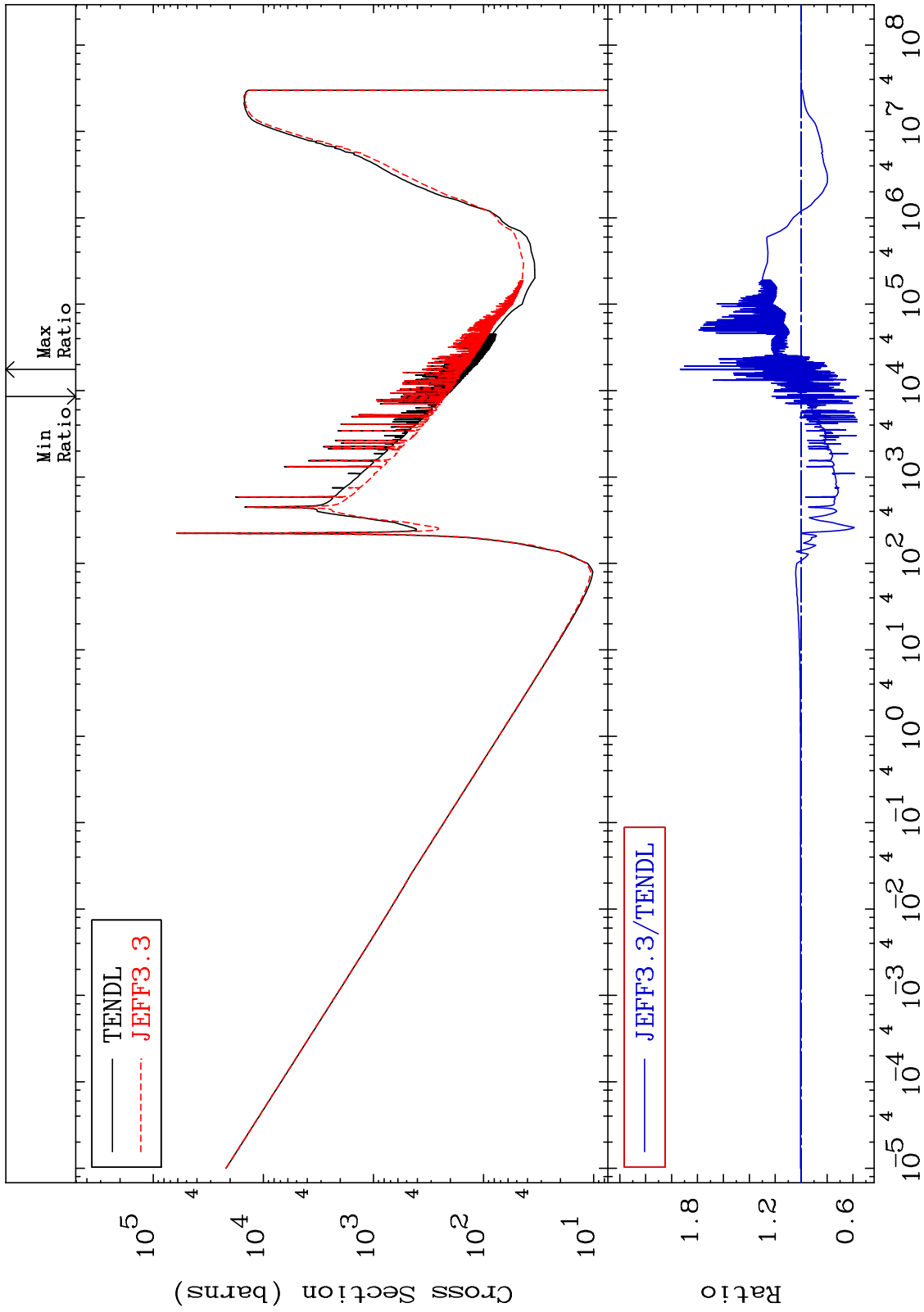
Incident Energy (eV)

30-Zn-67

MAT 3034

Dpa disappearance (mt102 -120)  
Cross Section

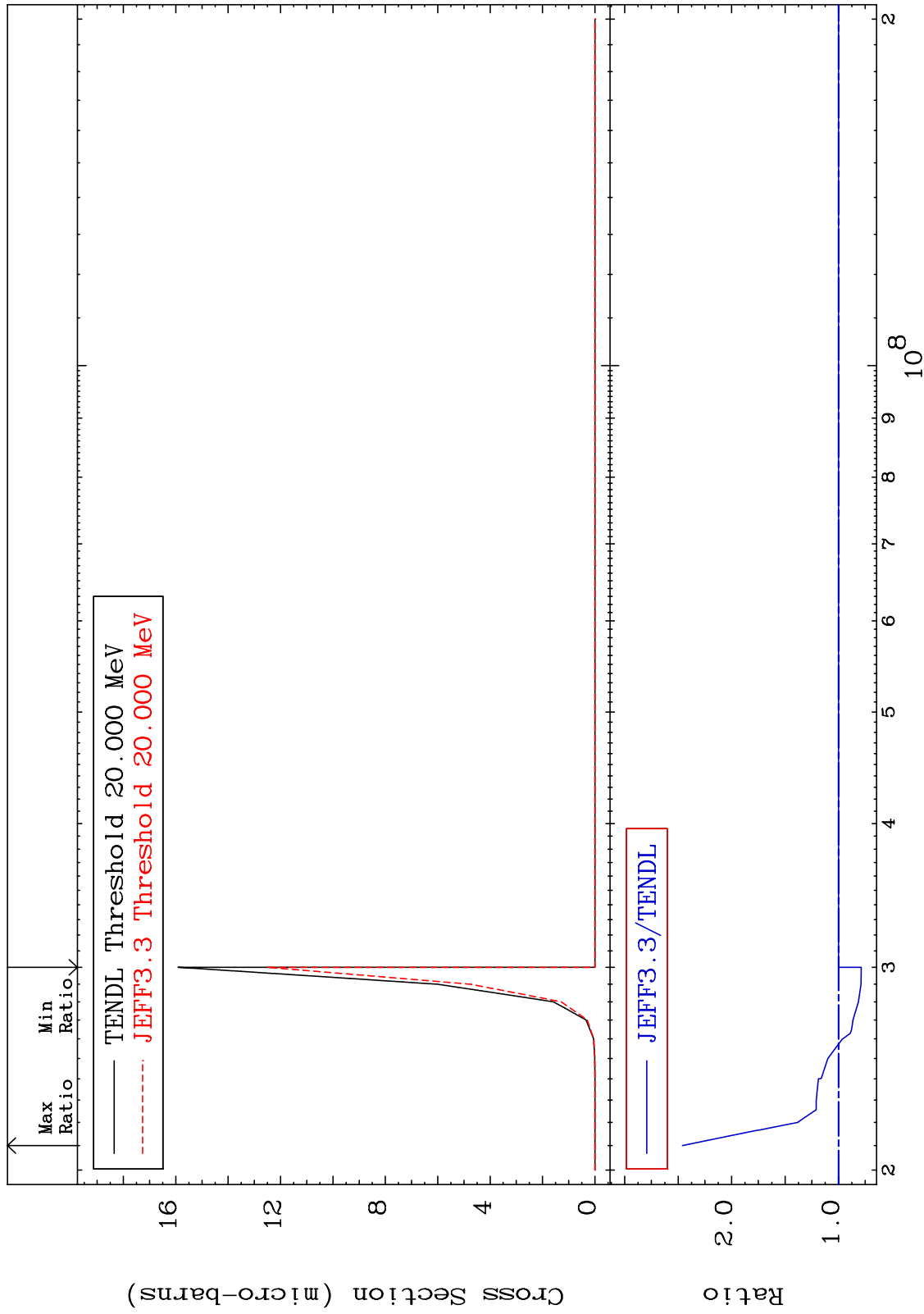
30-Zn-67  
-44.56 To 93.34 %





MAT 3034

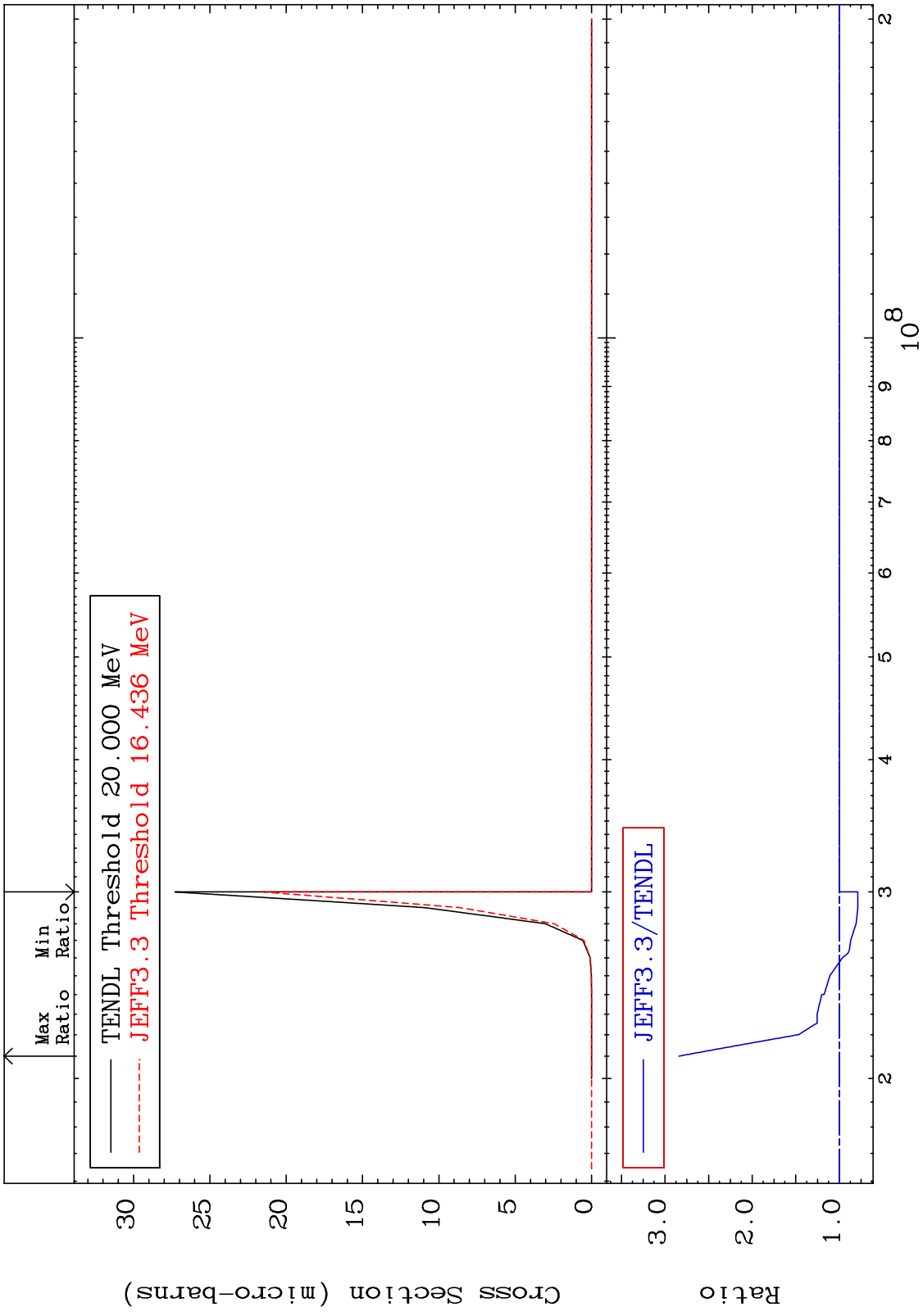
(n,n') p  $\alpha$ :27-Co-62g 30-Zn-67  
Radionuclide Production Cross Section -21.26 To 146.0 %

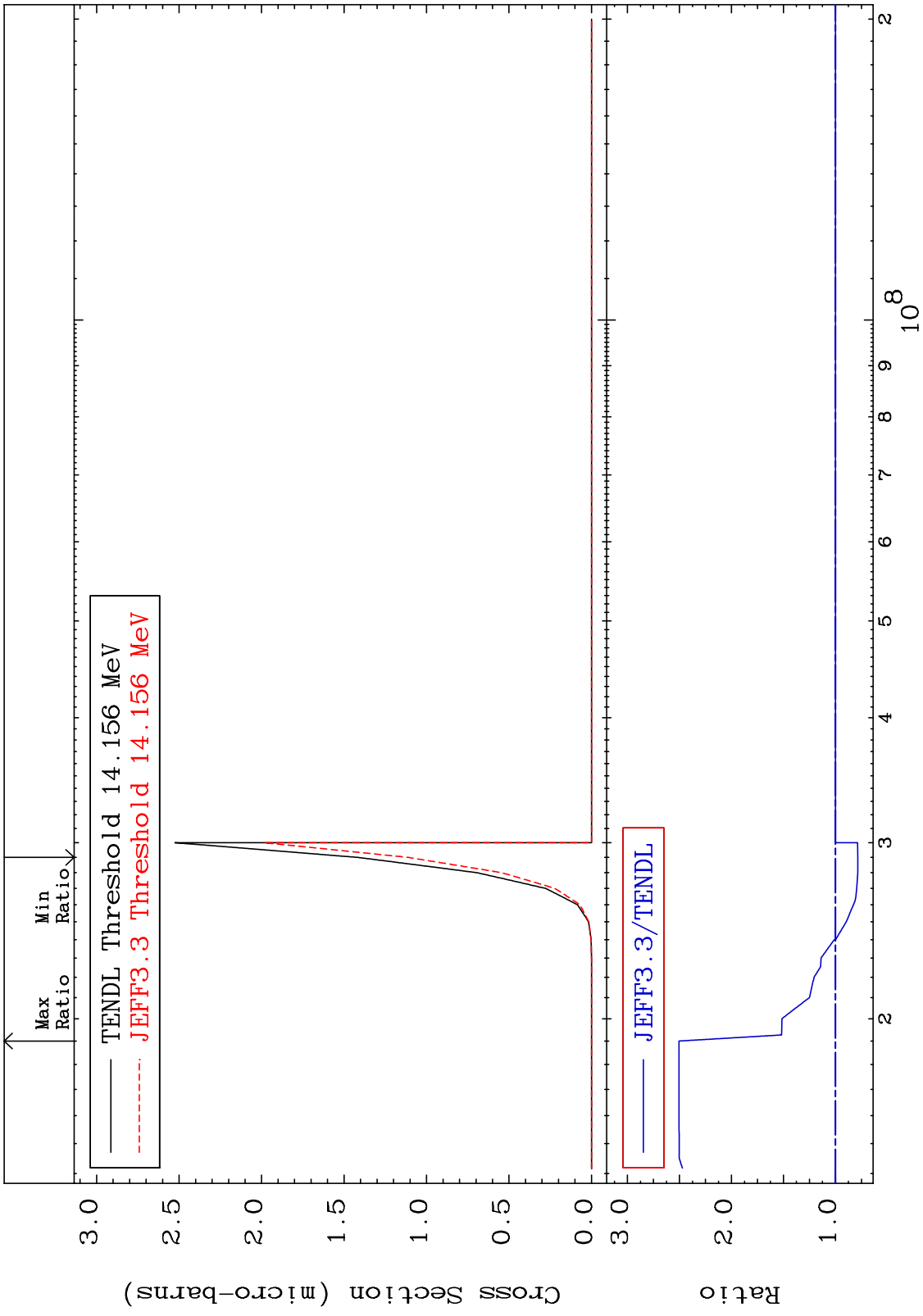


80

Incident Energy (eV)

30-Zn-67





MAT 3034

(n, d)  $\alpha$ :27-Co-62m1

30-Zn-67

Radionuclide Production Cross Section -21.08 To 215.9 %

