

Program Complot  
(Version 2018-1)

by

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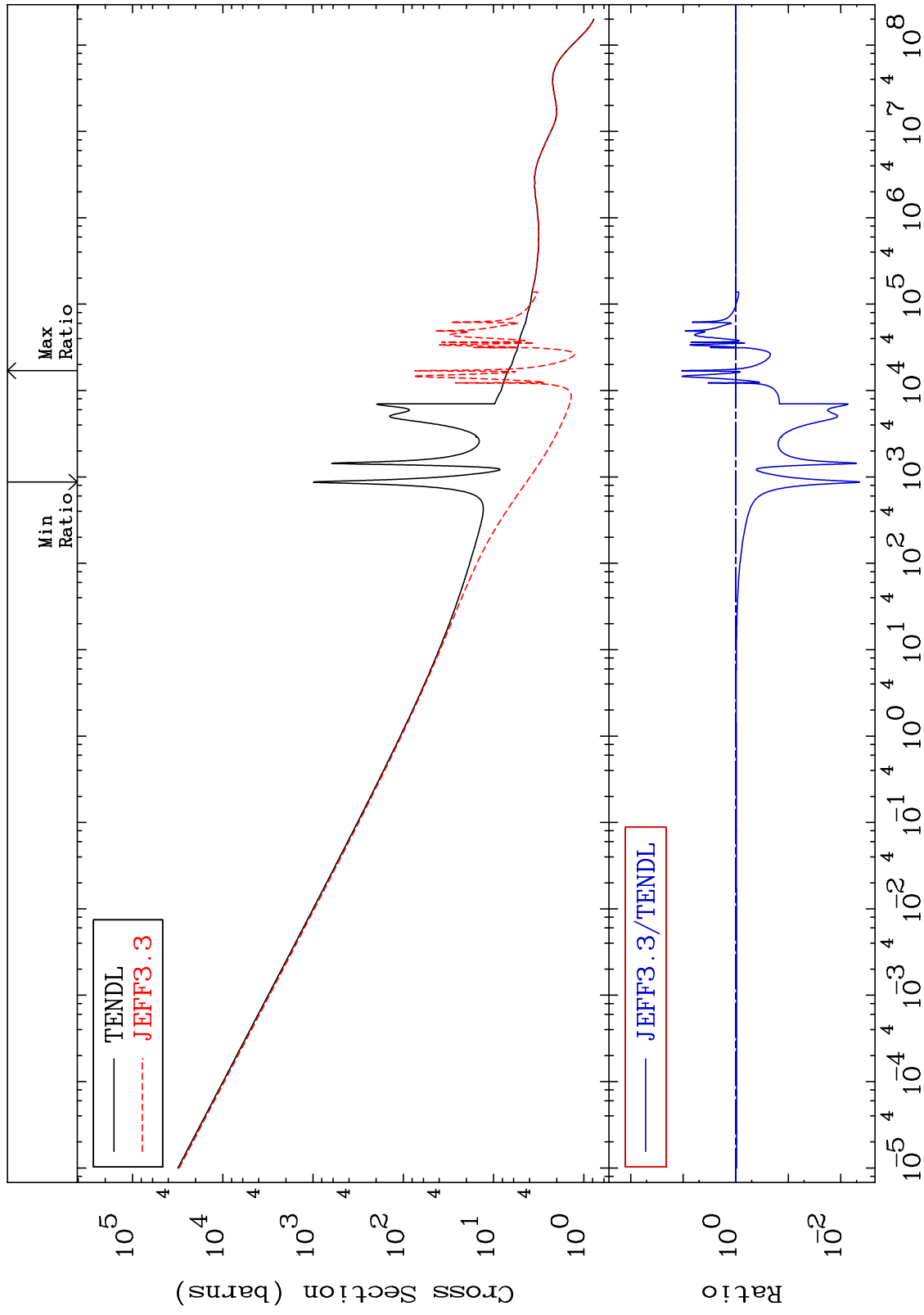
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 1834

Total  
Cross Section

18-Ar-39  
-99.56 To 991.9 %



1

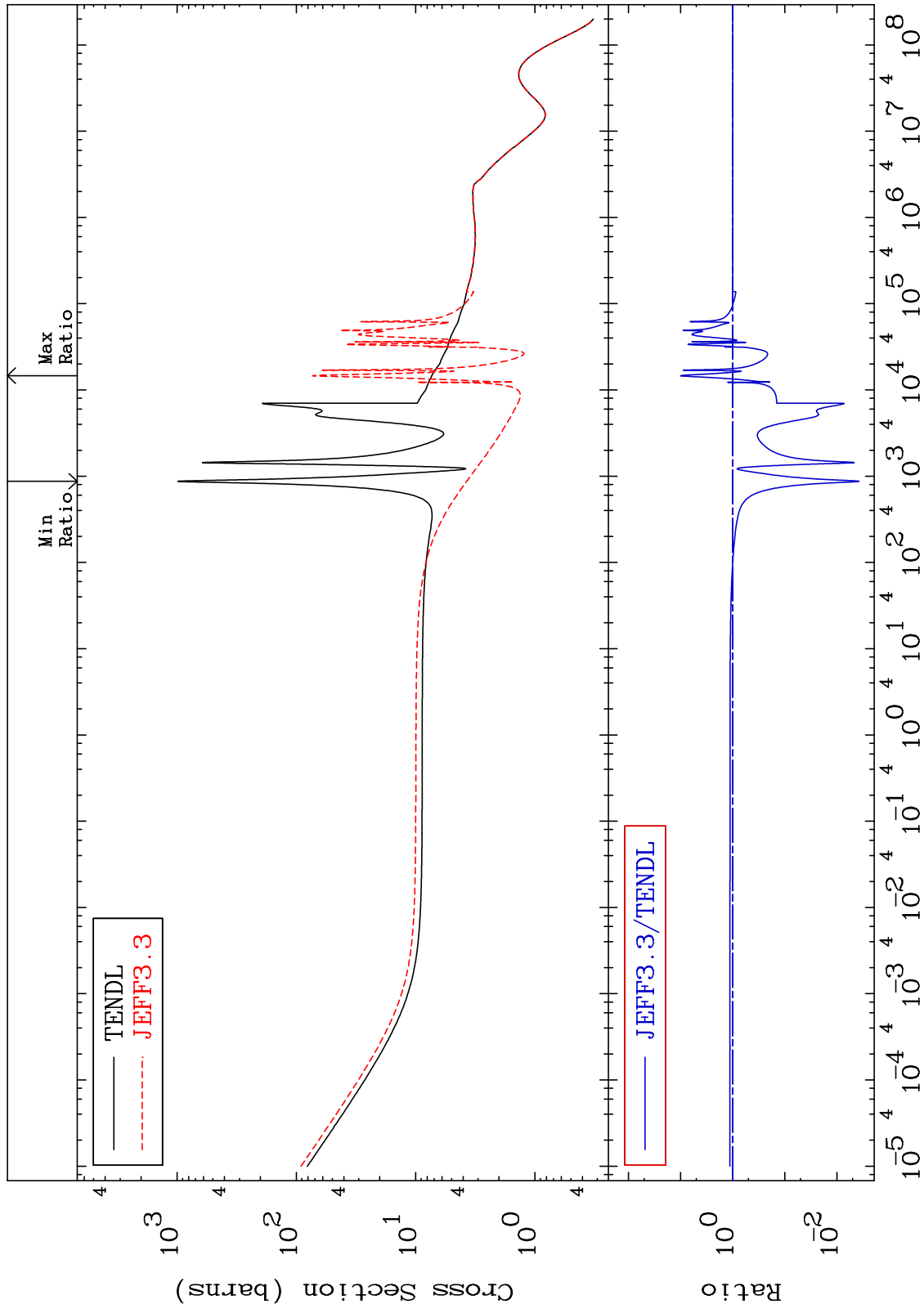
Incident Energy (eV)

18-Ar-39

MAT 1834

Elastic  
Cross Section

18-Ar-39  
-99.62 To 898.4 %



2

Incident Energy (eV)

18-Ar-39

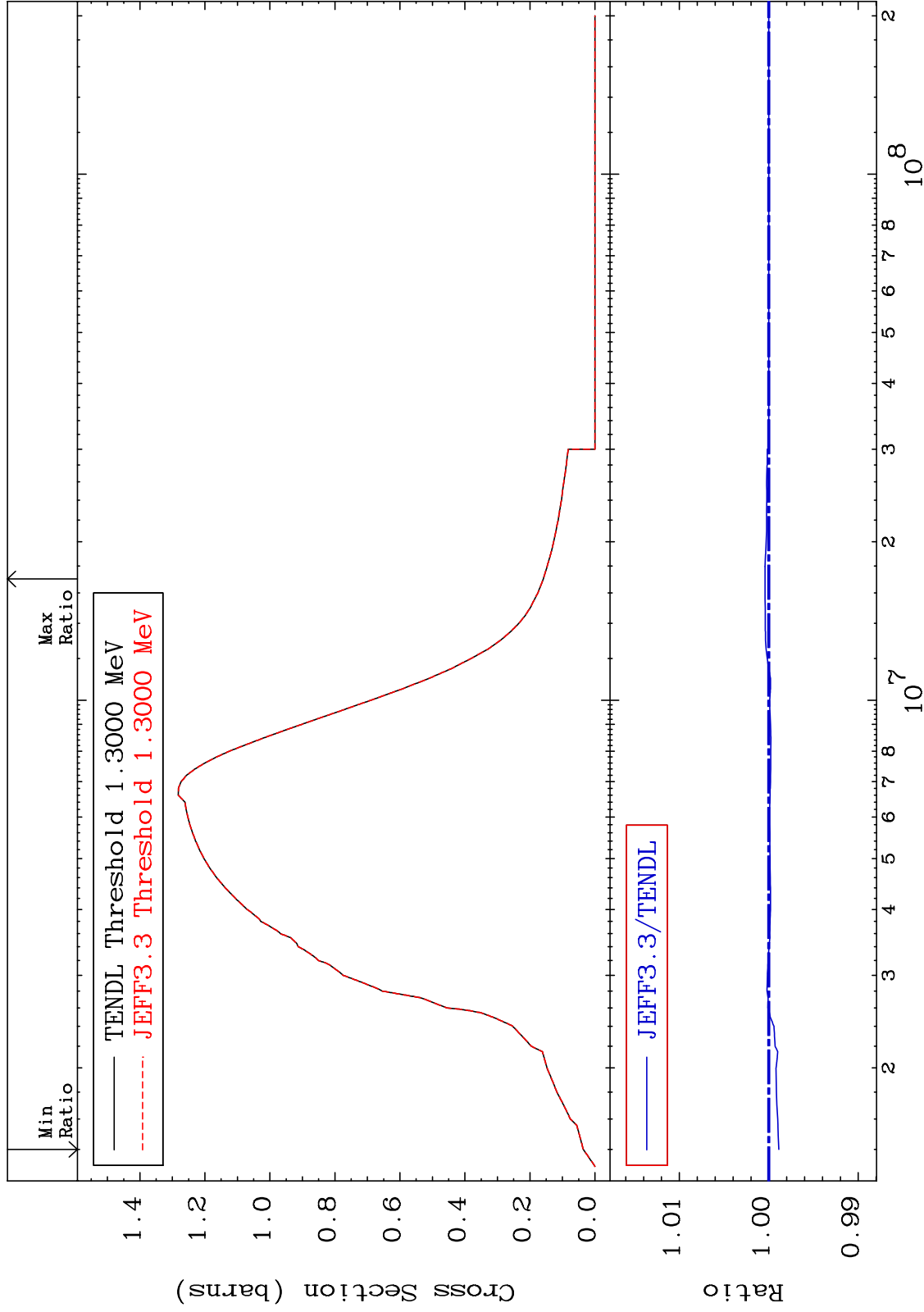
MAT 1834

Inelastic

18-Ar-39

Cross Section

-0.111 To 0.043 %

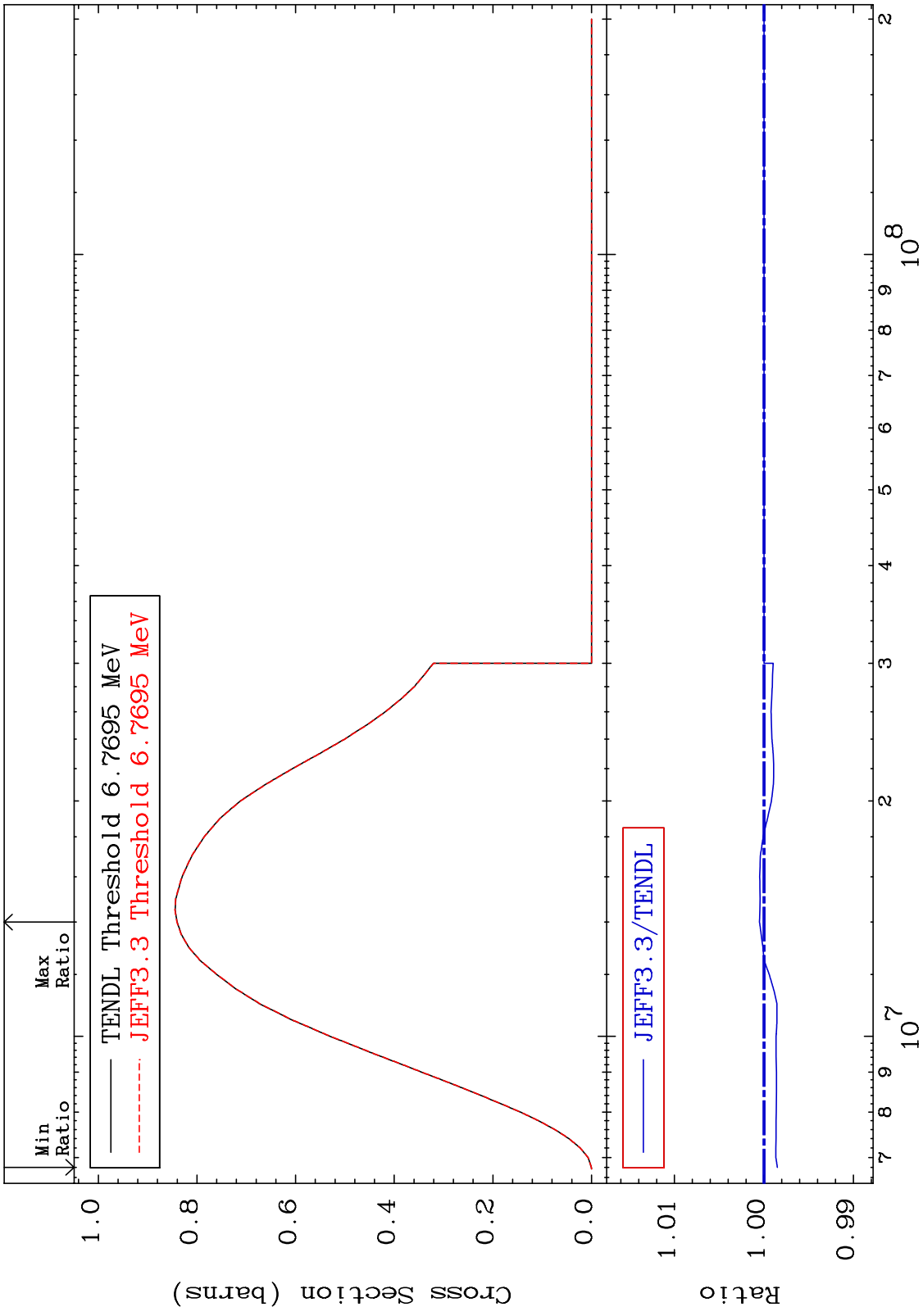


3

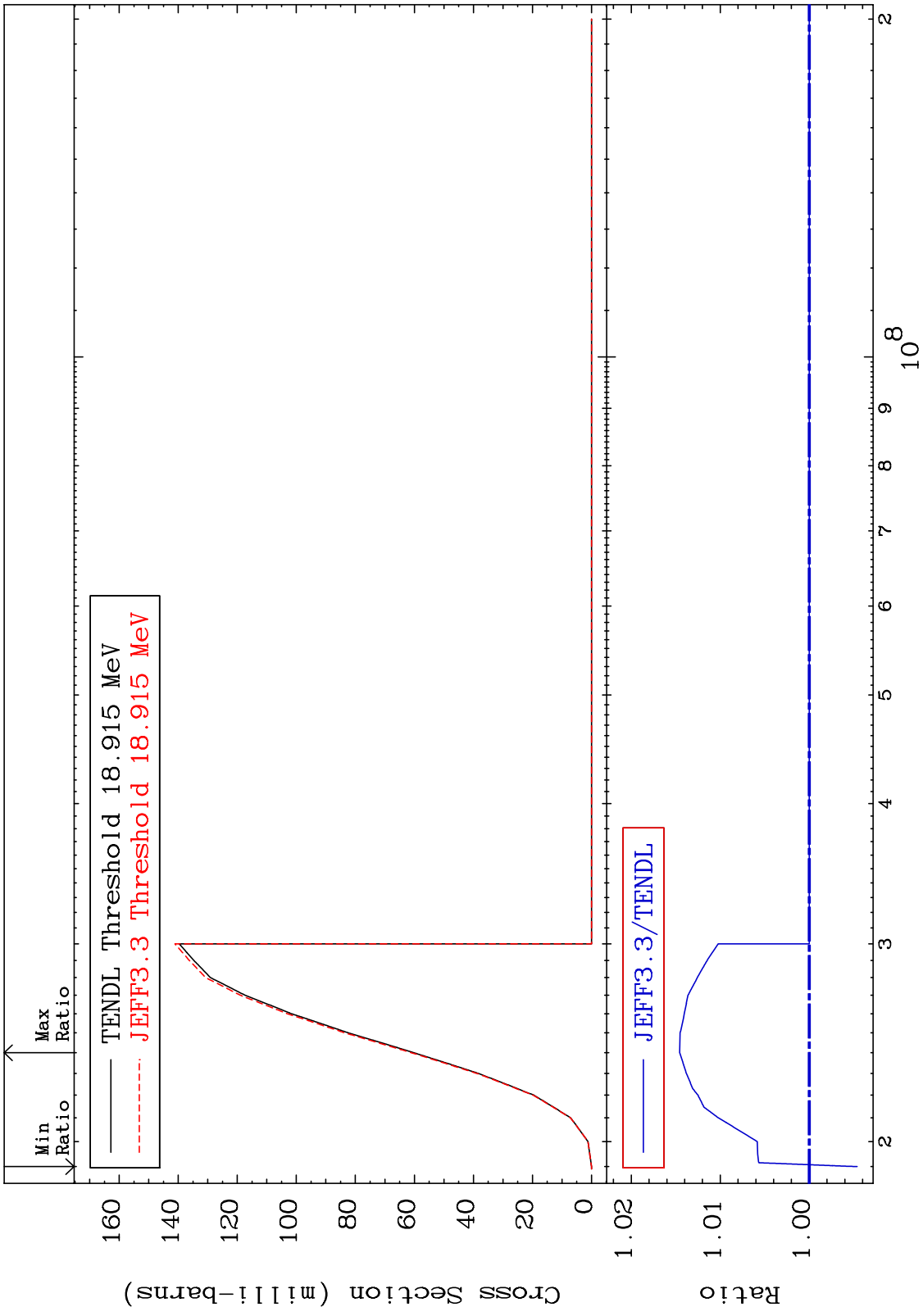
Incident Energy (eV)

18-Ar-39

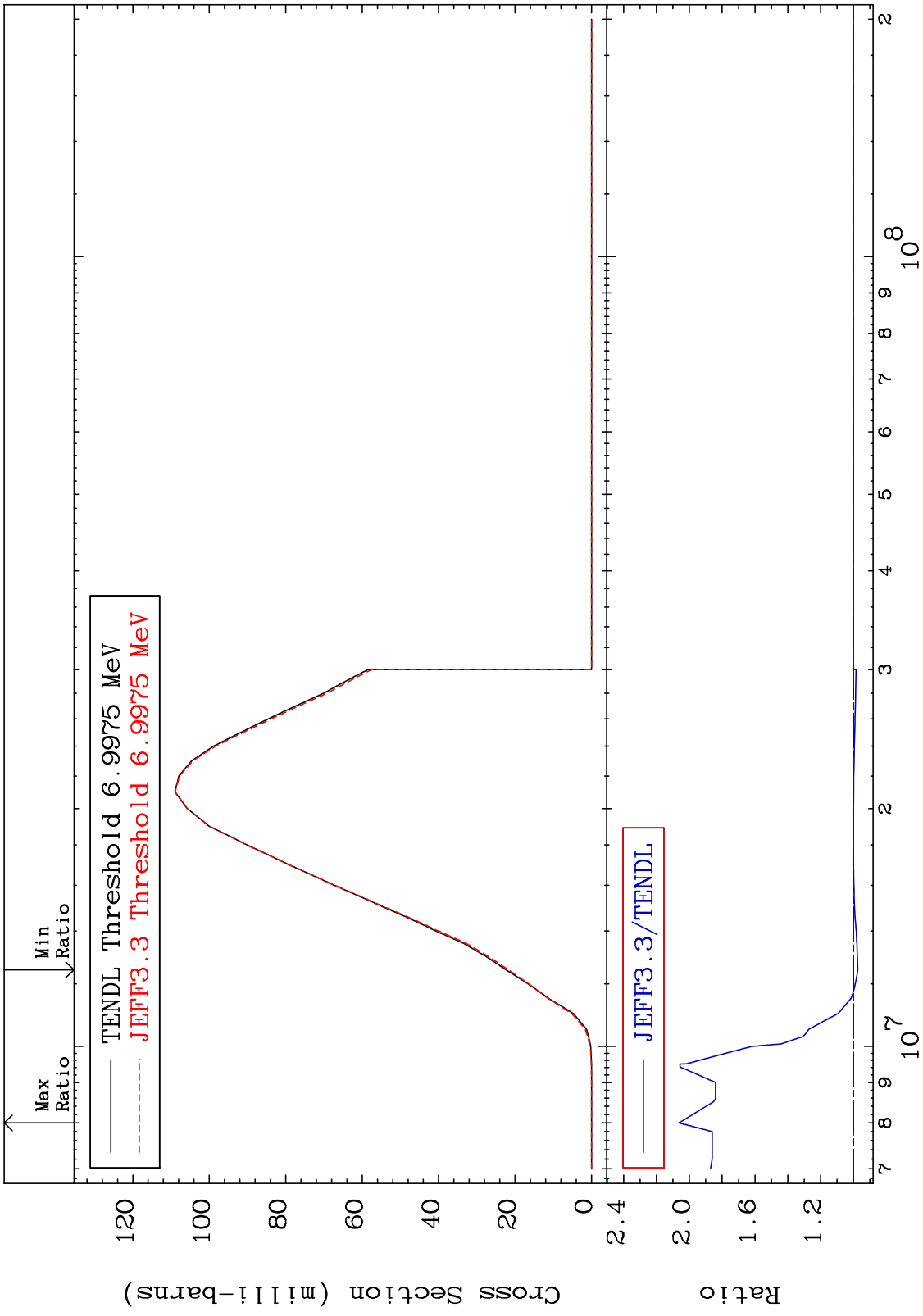




MAT 1834 (n,3n) 18-Ar-39  
 Cross Section -0.539 To 1.456 %



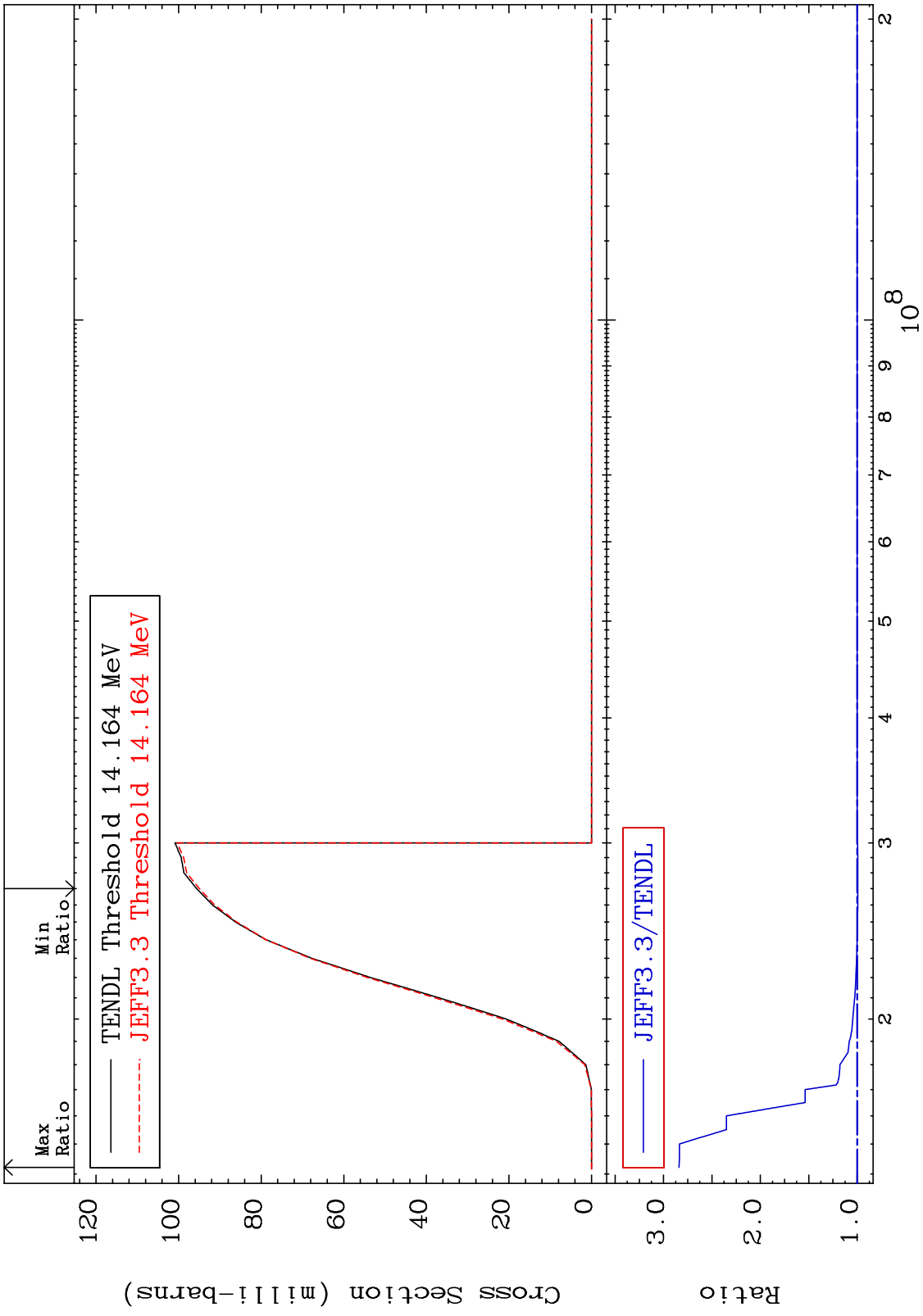
MAT 1834  $(n, n') \alpha$  18-Ar-39  
 Cross Section -2.656 To 106.3 %



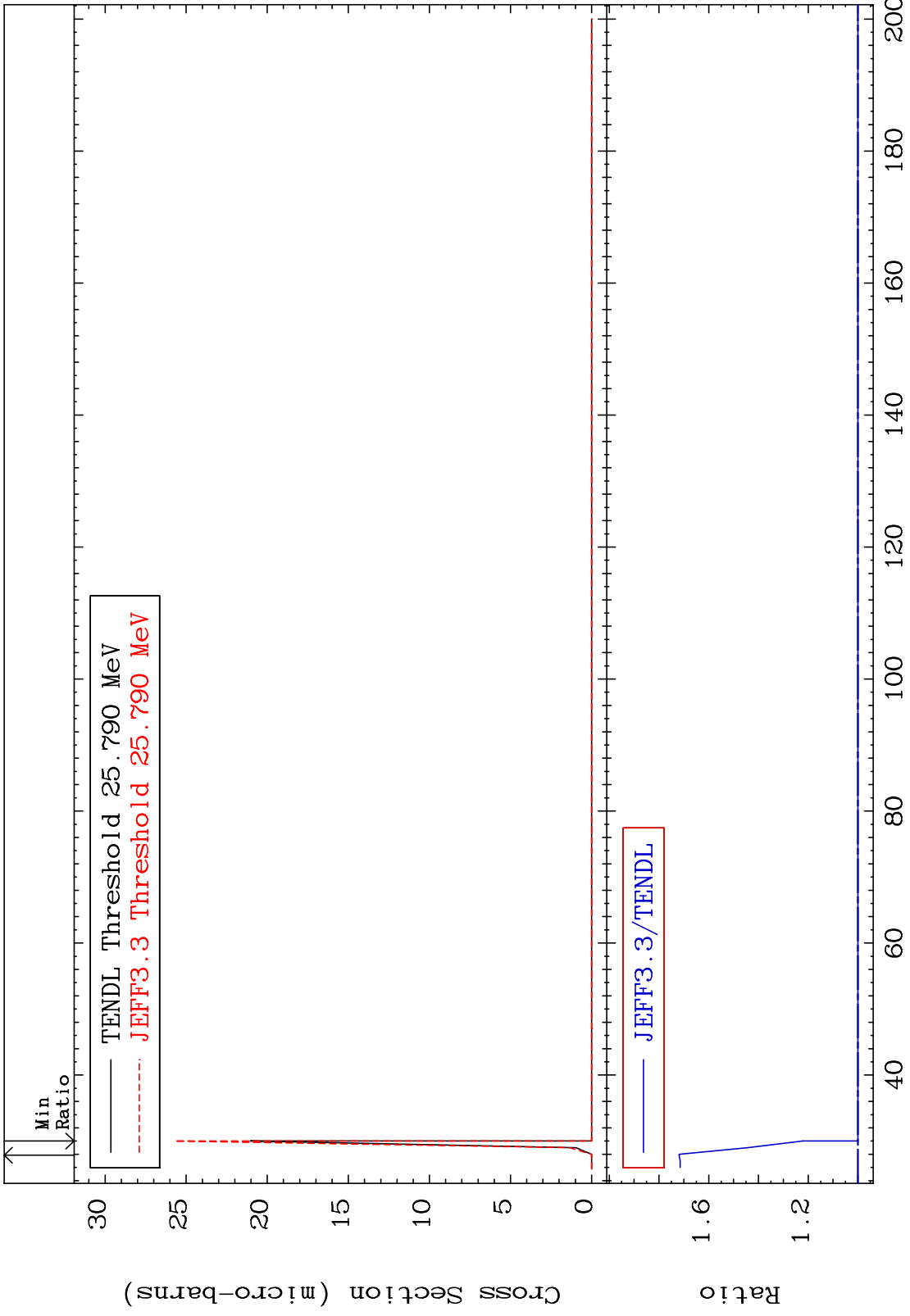
7 18-Ar-39



MAT 1834 (n,2n)  $\alpha$  18-Ar-39  
 Cross Section -0.682 To 184.0 %



MAT 1834 (n,3n)  $\alpha$  18-Ar-39  
Cross Section 0.000 To 71.90 %



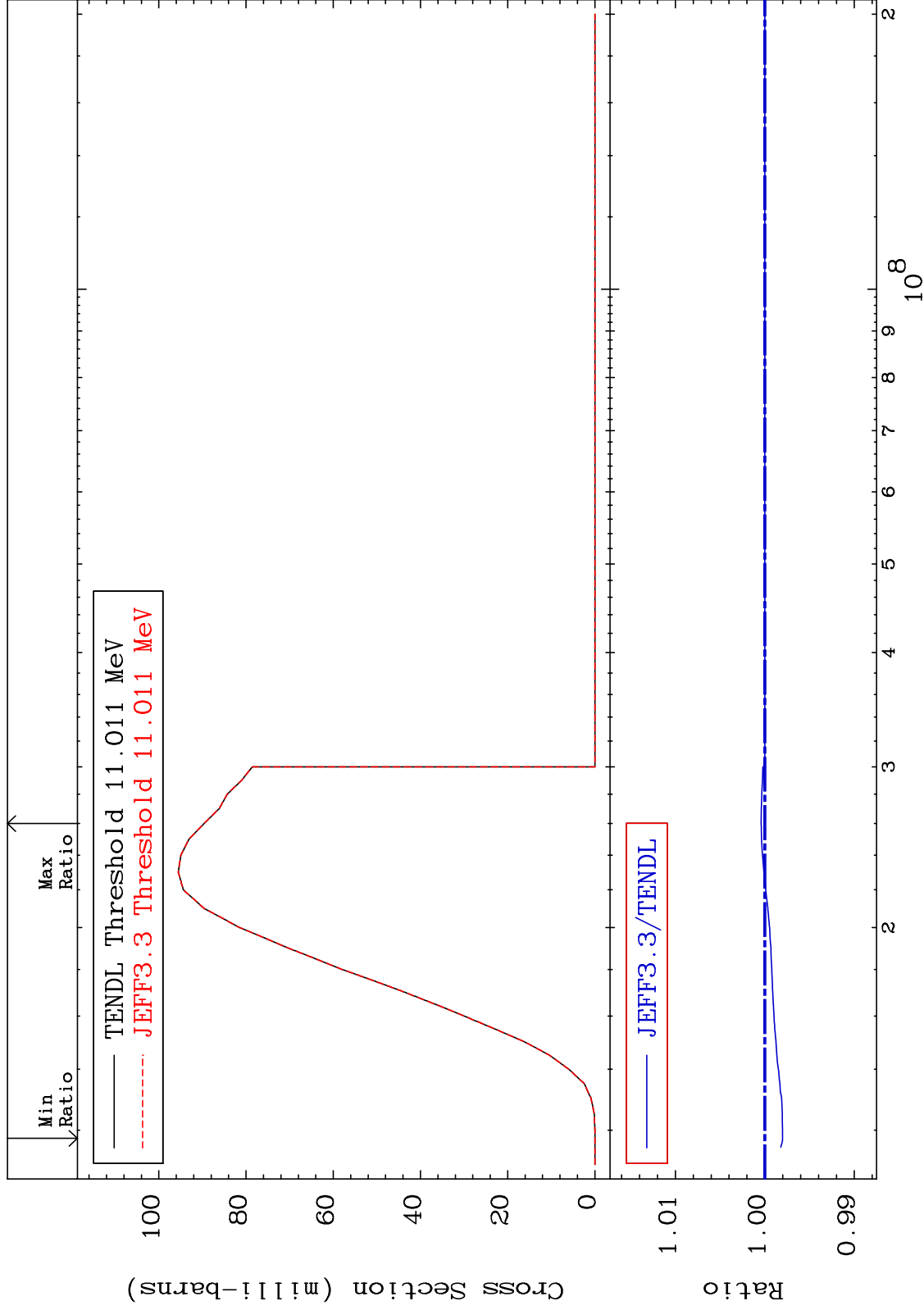
MAT 1834

(n,n') p

18-Ar-39

Cross Section

-0.198 To 0.041 %

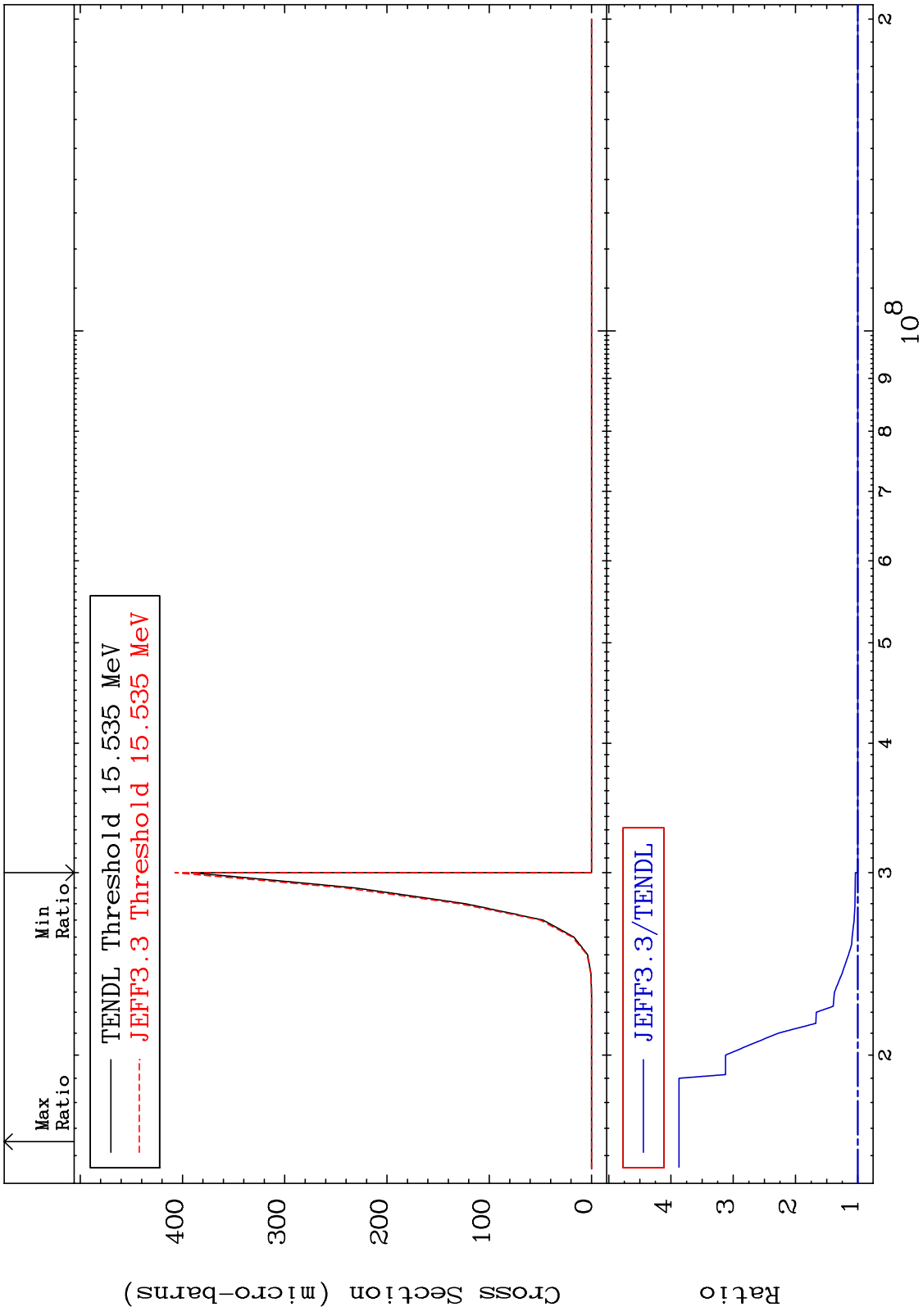


10

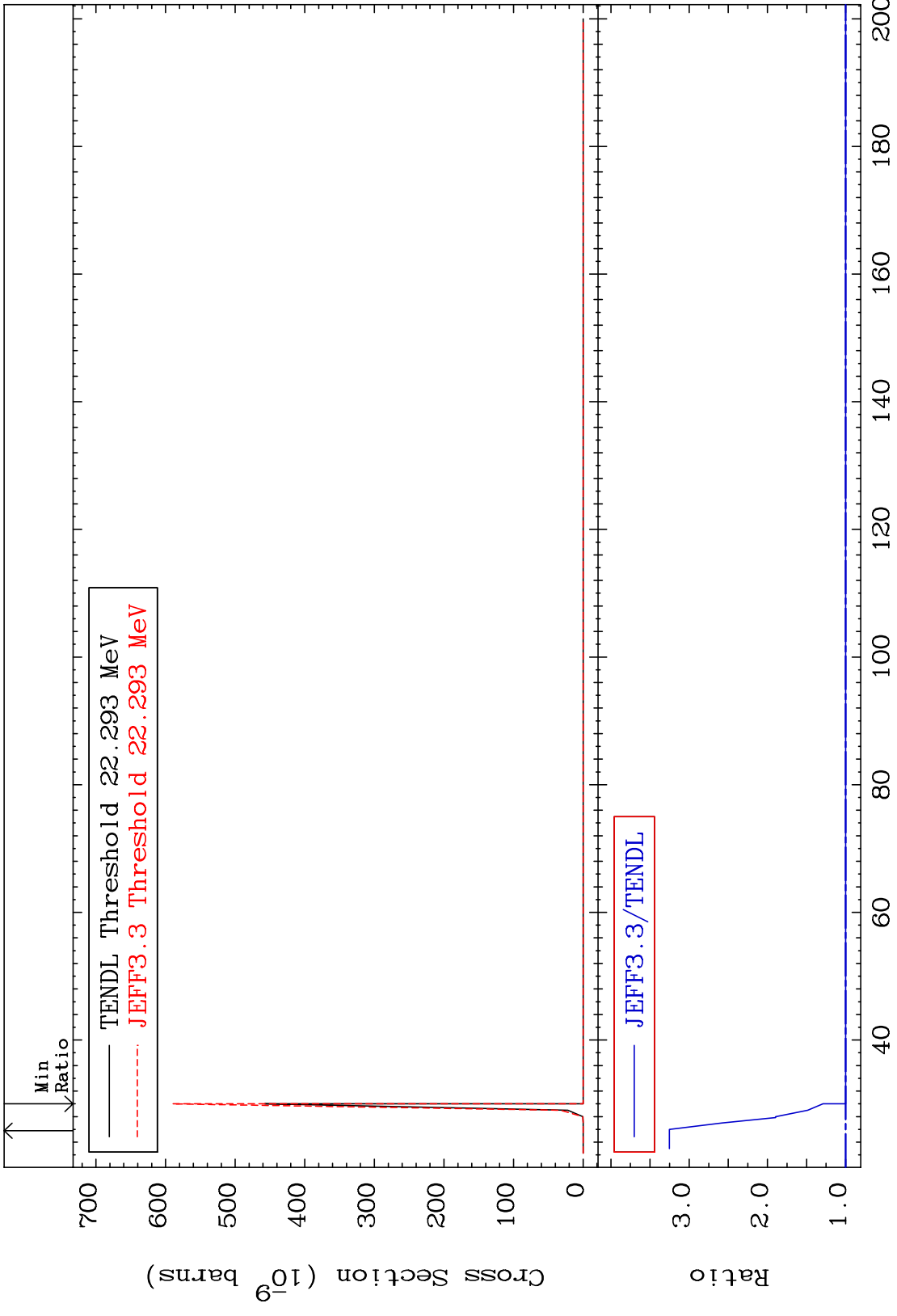
Incident Energy (eV)

18-Ar-39

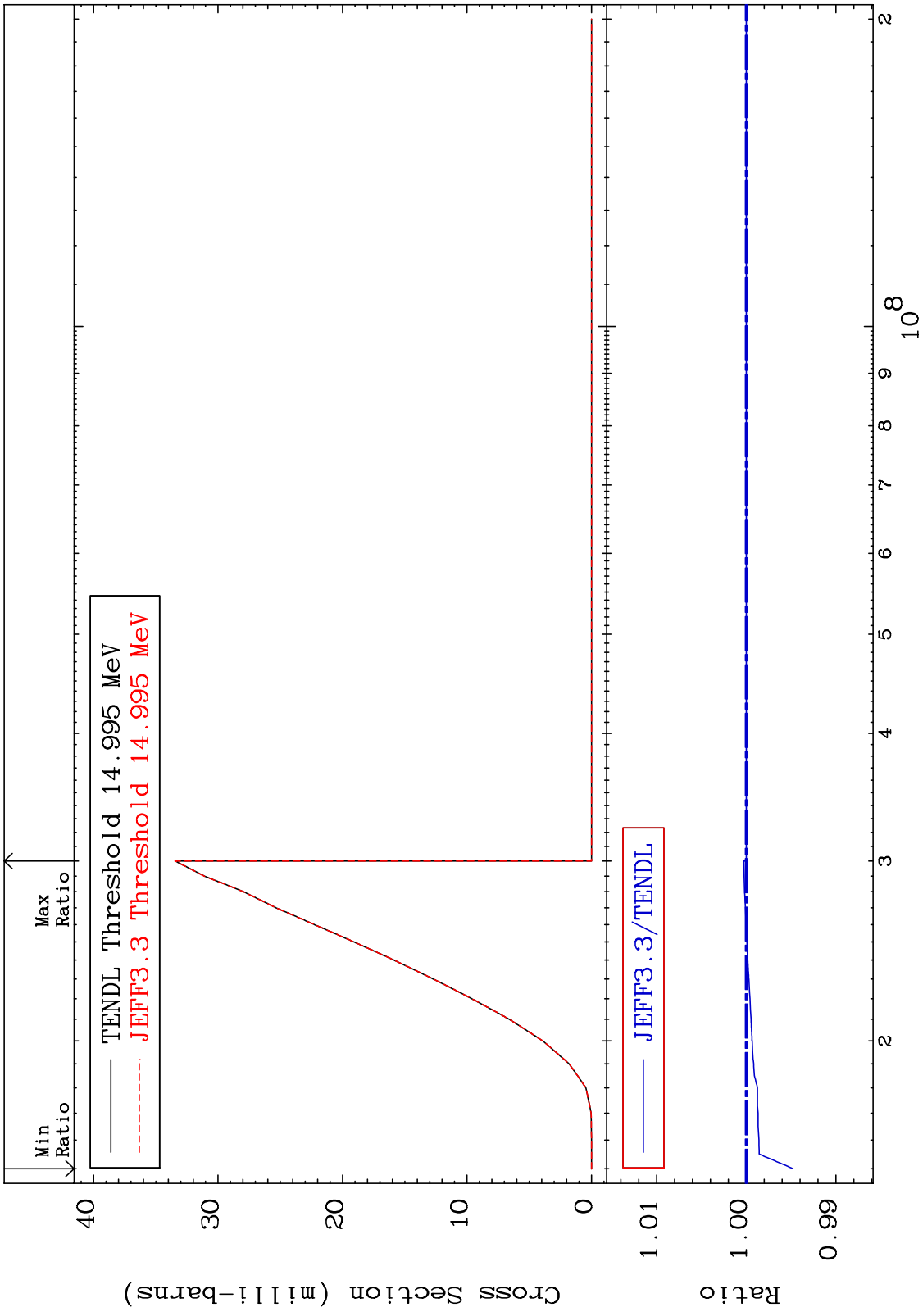
MAT 1834 (n,n') 2α Cross Section 18-Ar-39 To 287.1 %



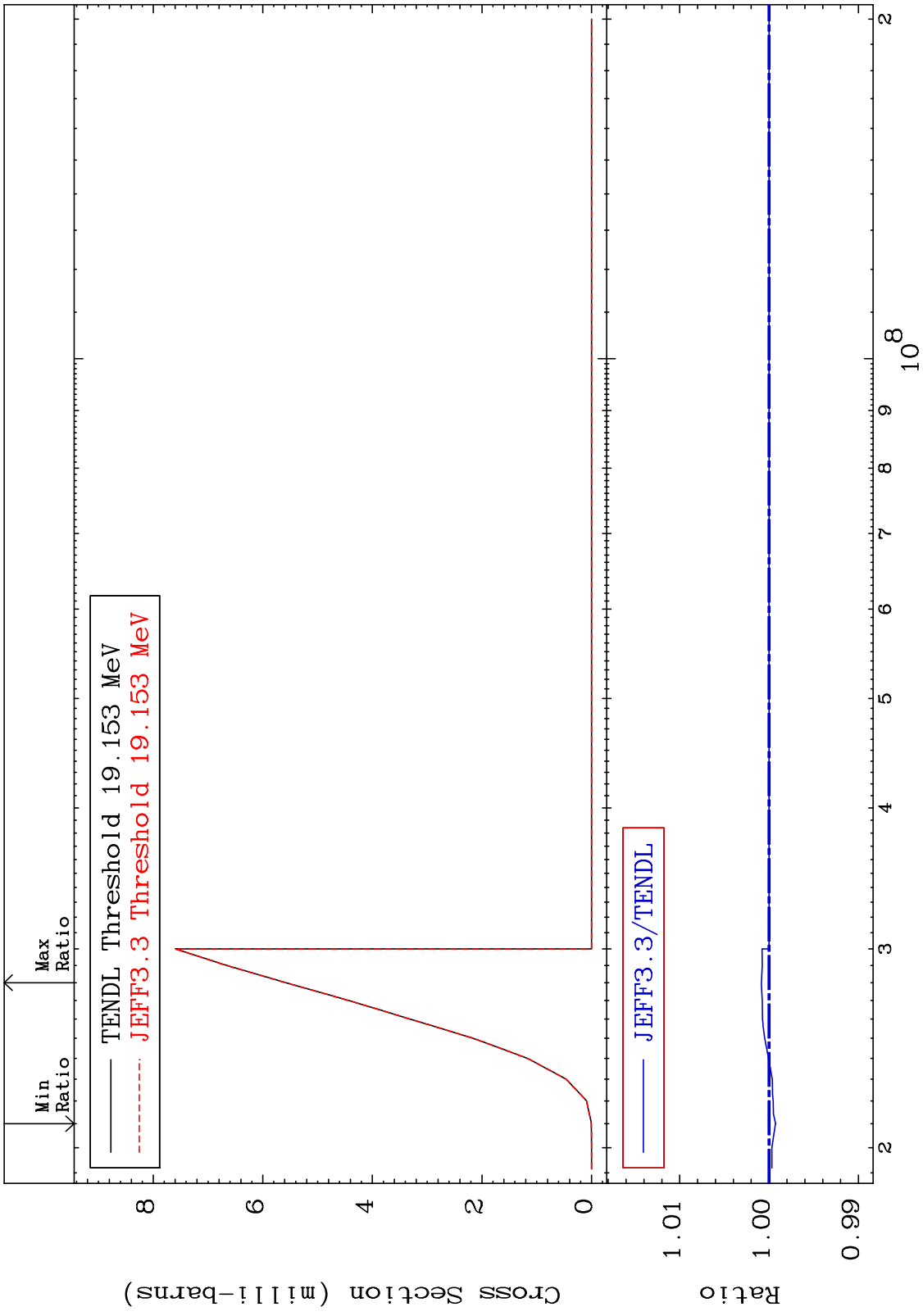
MAT 1834 (n,2n) 2α 18-Ar-39  
 Cross Section 0.000 To 225.2 %



MAT 1834 (n,n') d 18-Ar-39  
 Cross Section -0.522 To 0.029 %



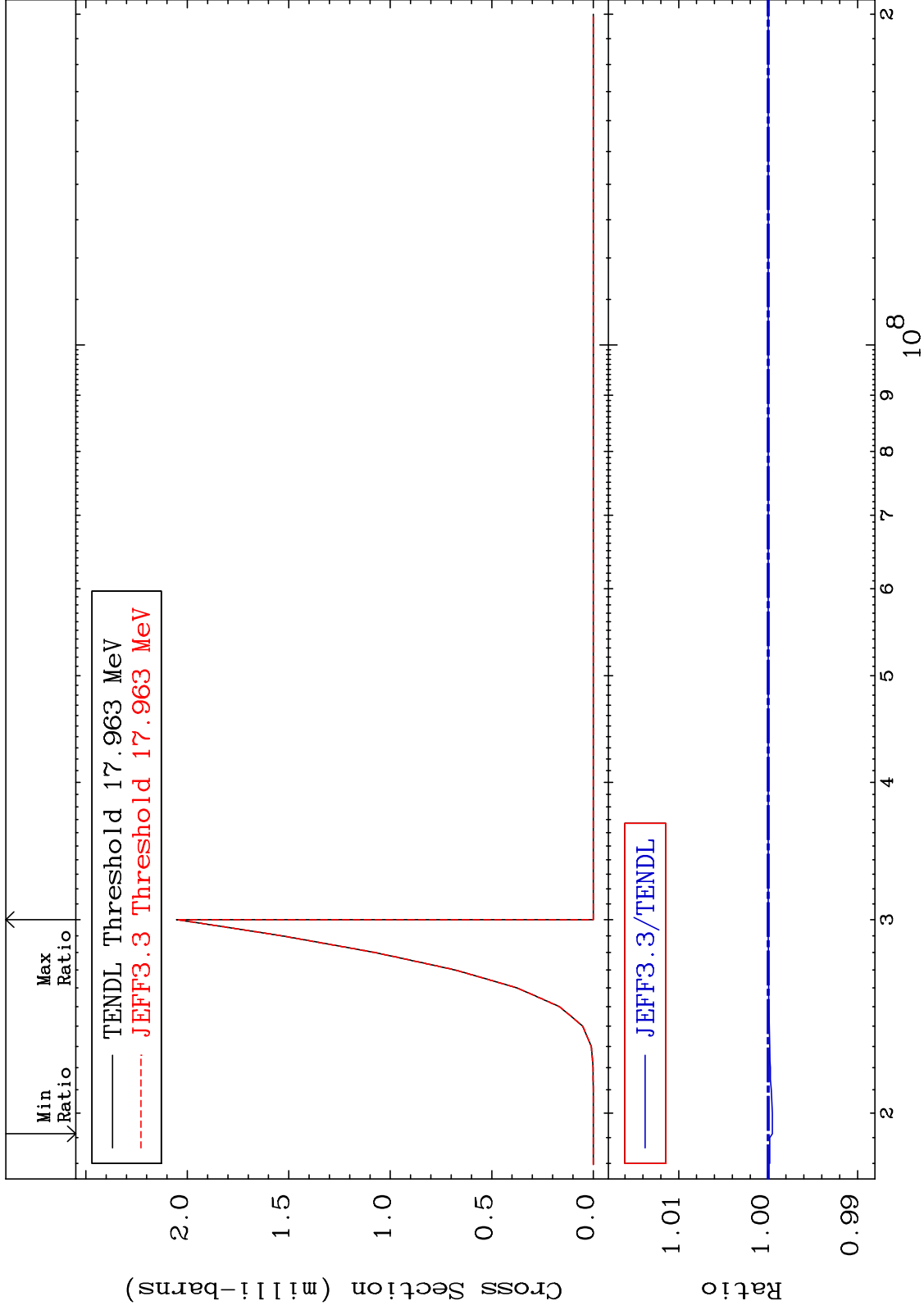
MAT 1834 (n,n') t 18-Ar-39  
 Cross Section -0.072 To 0.086 %



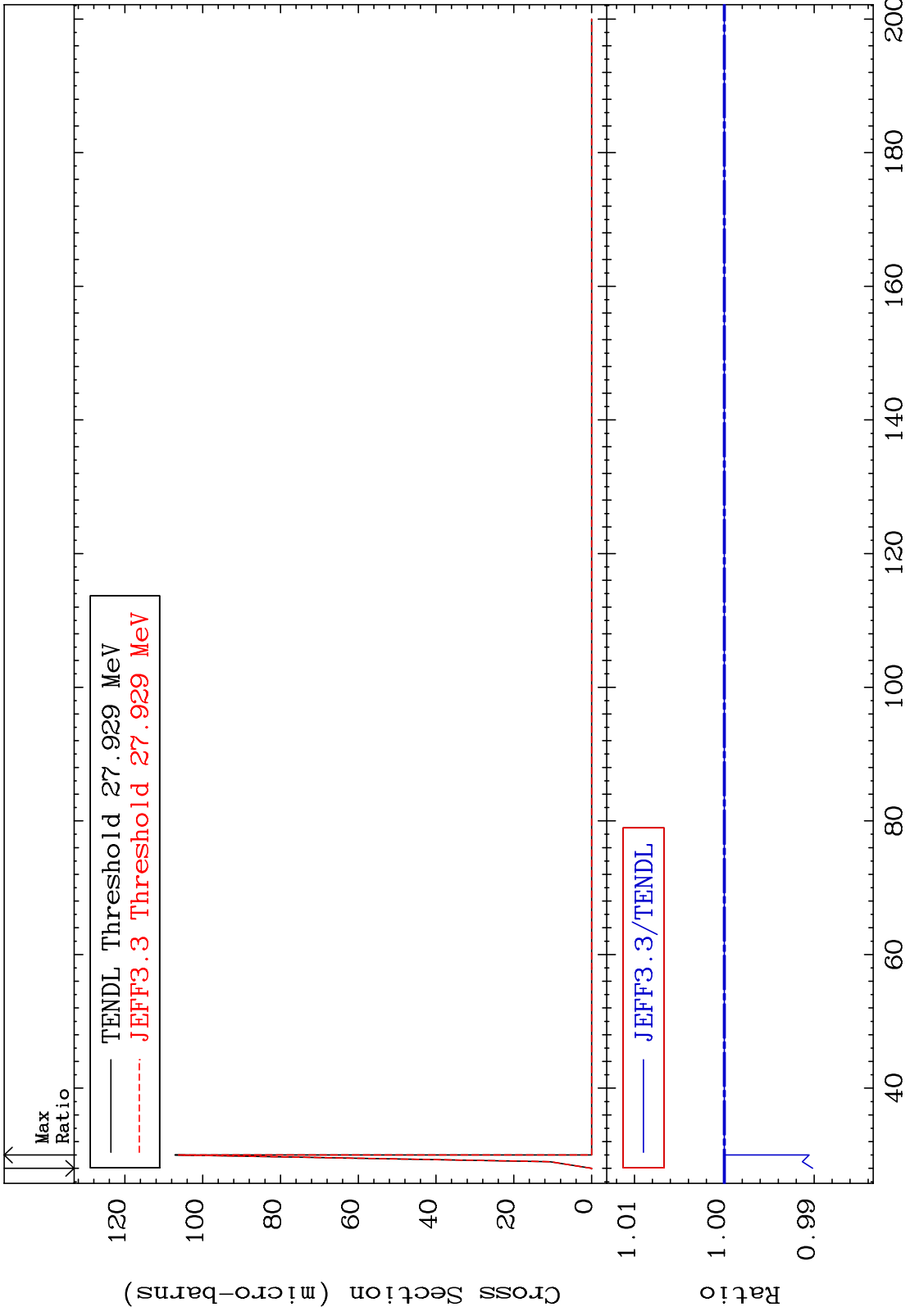
MAT 1834

(n, n') He-3  
Cross Section

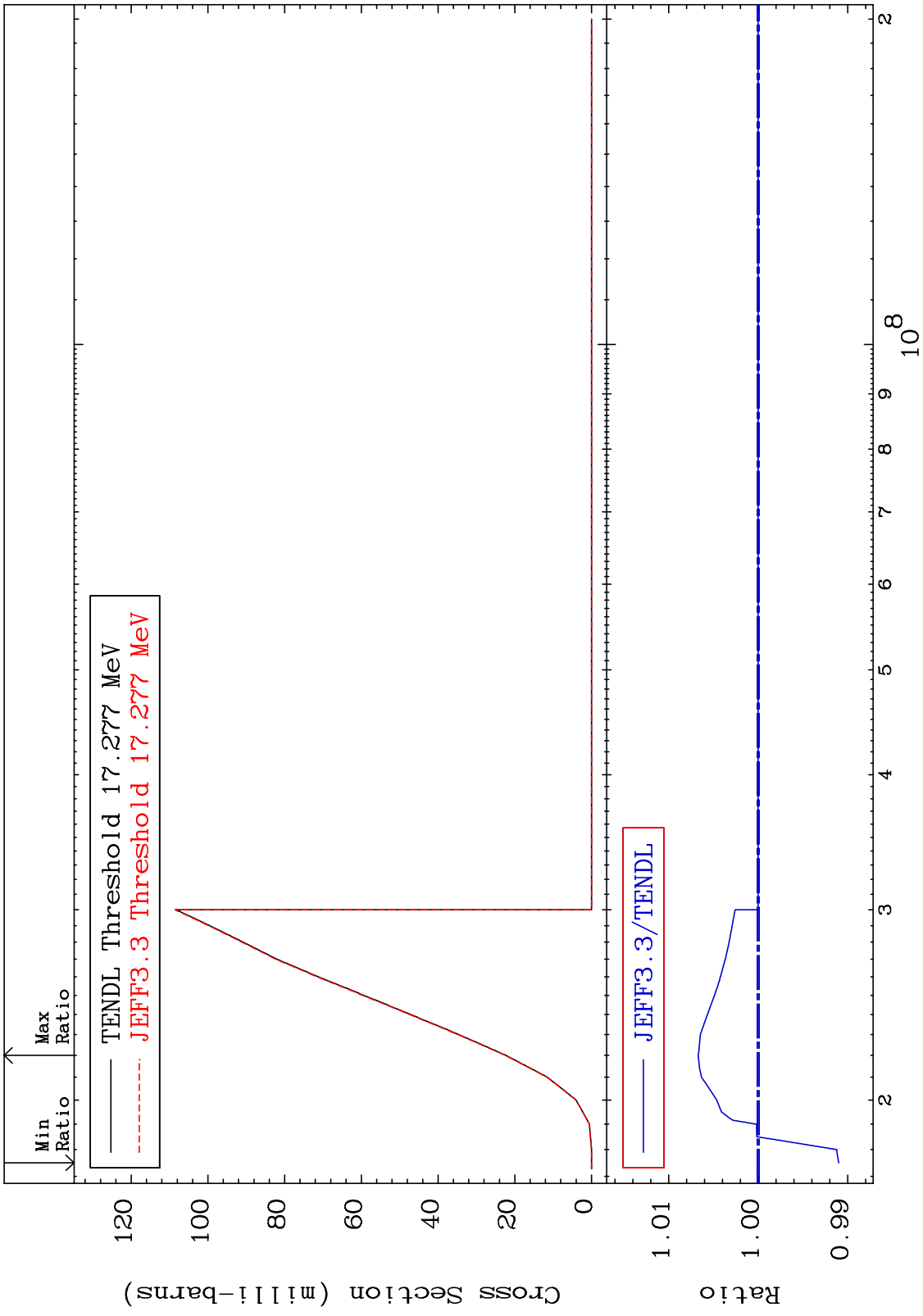
18-Ar-39  
-0.047 To 0.000 %



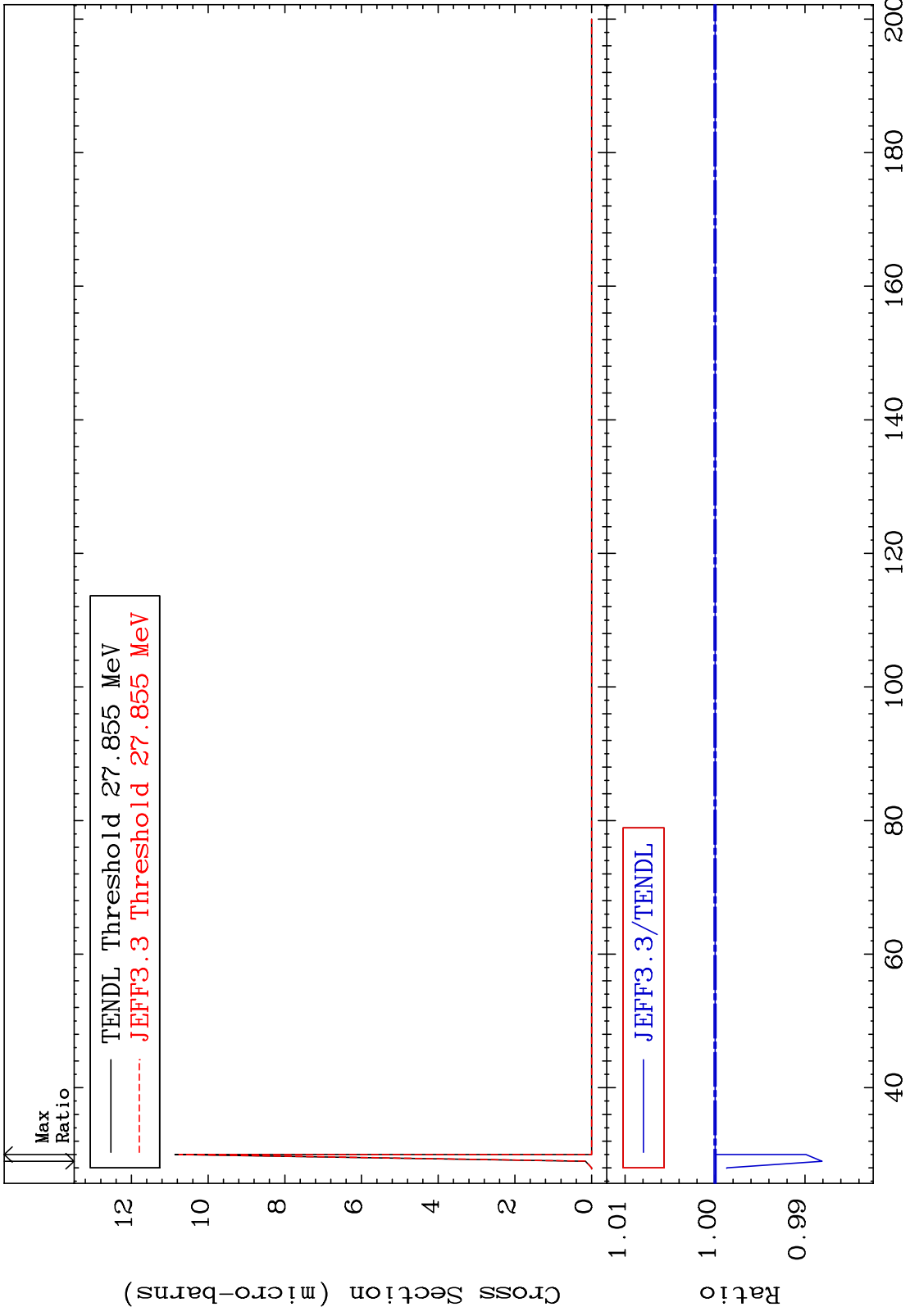




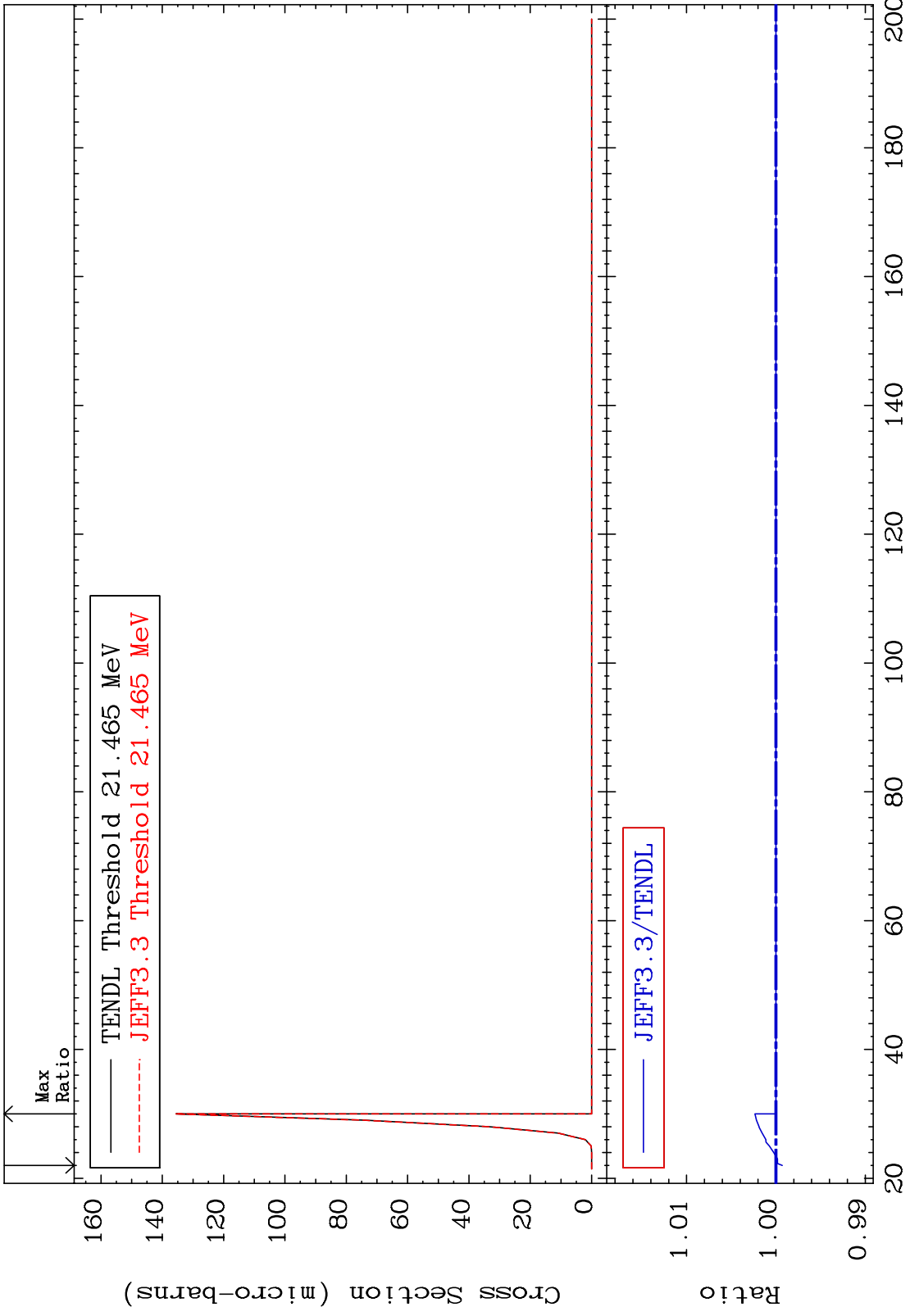
MAT 1834 (n,2n) p 18-Ar-39  
 Cross Section -0.900 To 0.671 %



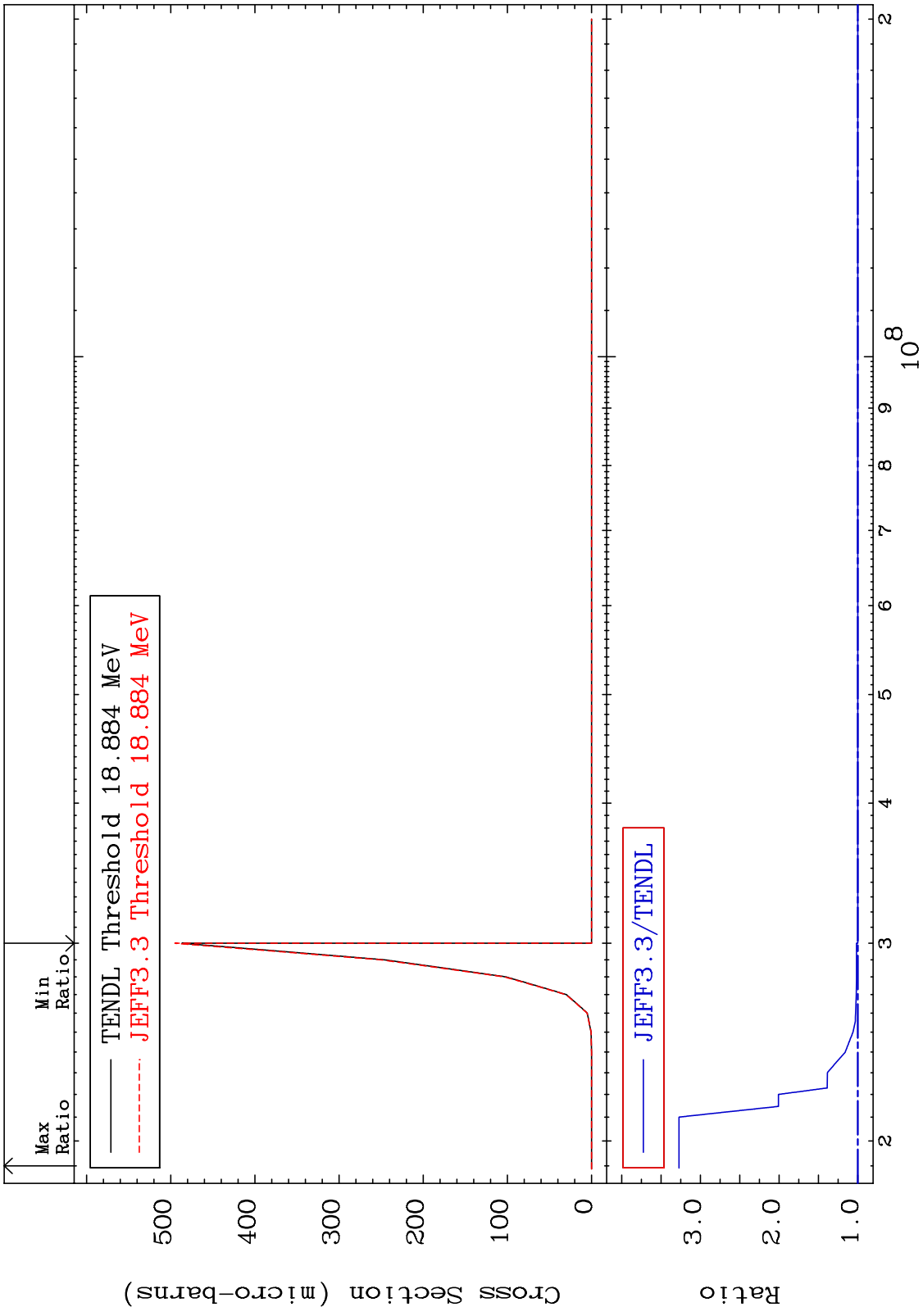
MAT 1834 (n,3n) p 18-Ar-39  
 Cross Section -1.190 To 0.000 %



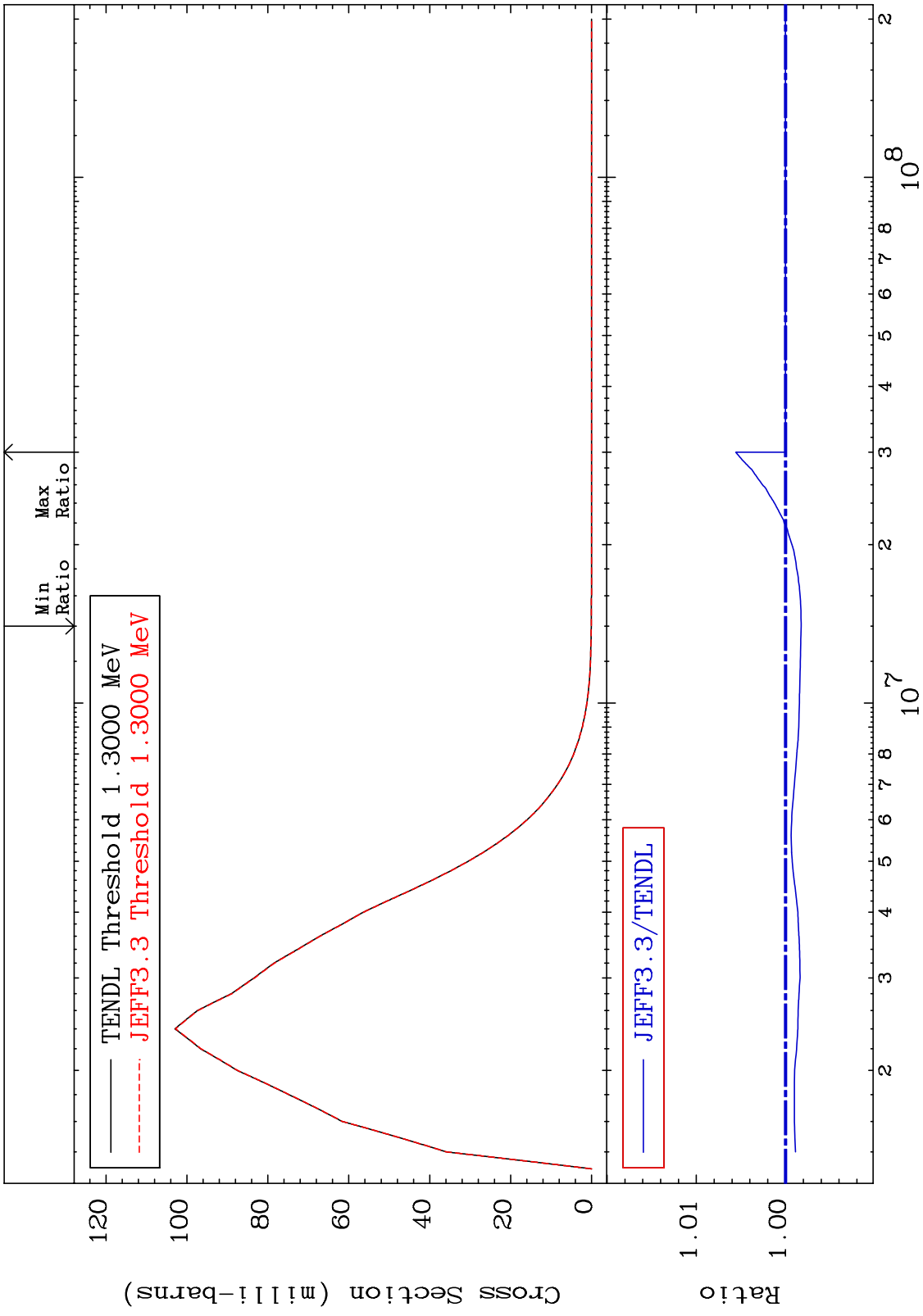
MAT 1834 (n,2n) p 18-Ar-39  
Cross Section -0.070 To 0.235 %



MAT 1834 (n,n') p  $\alpha$  18-Ar-39  
 Cross Section 0.000 To 227.2 %

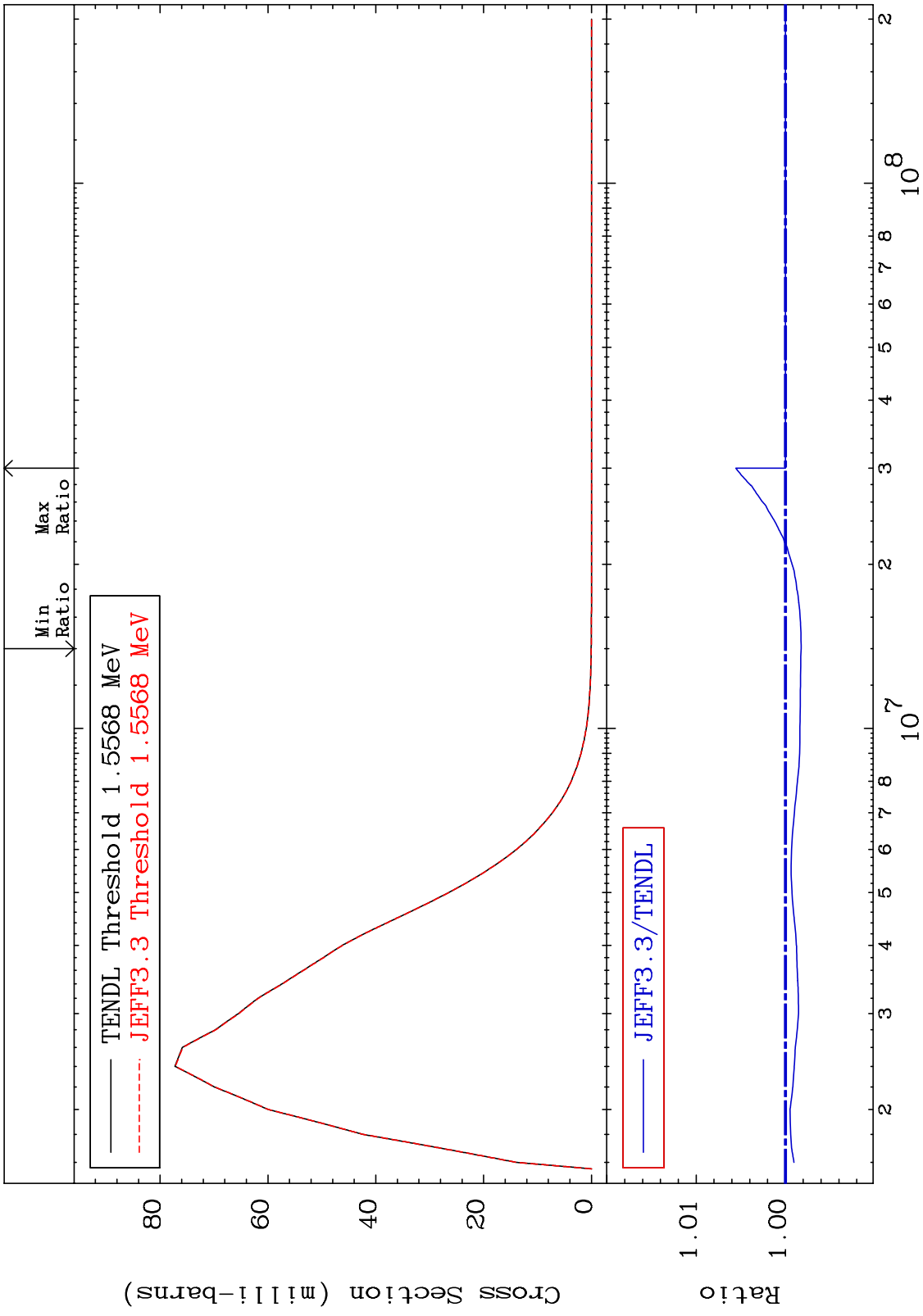


MAT 1834 MT= 51 (n, n') Level Cross Section -0.175 To 0.558 % 18-Ar-39

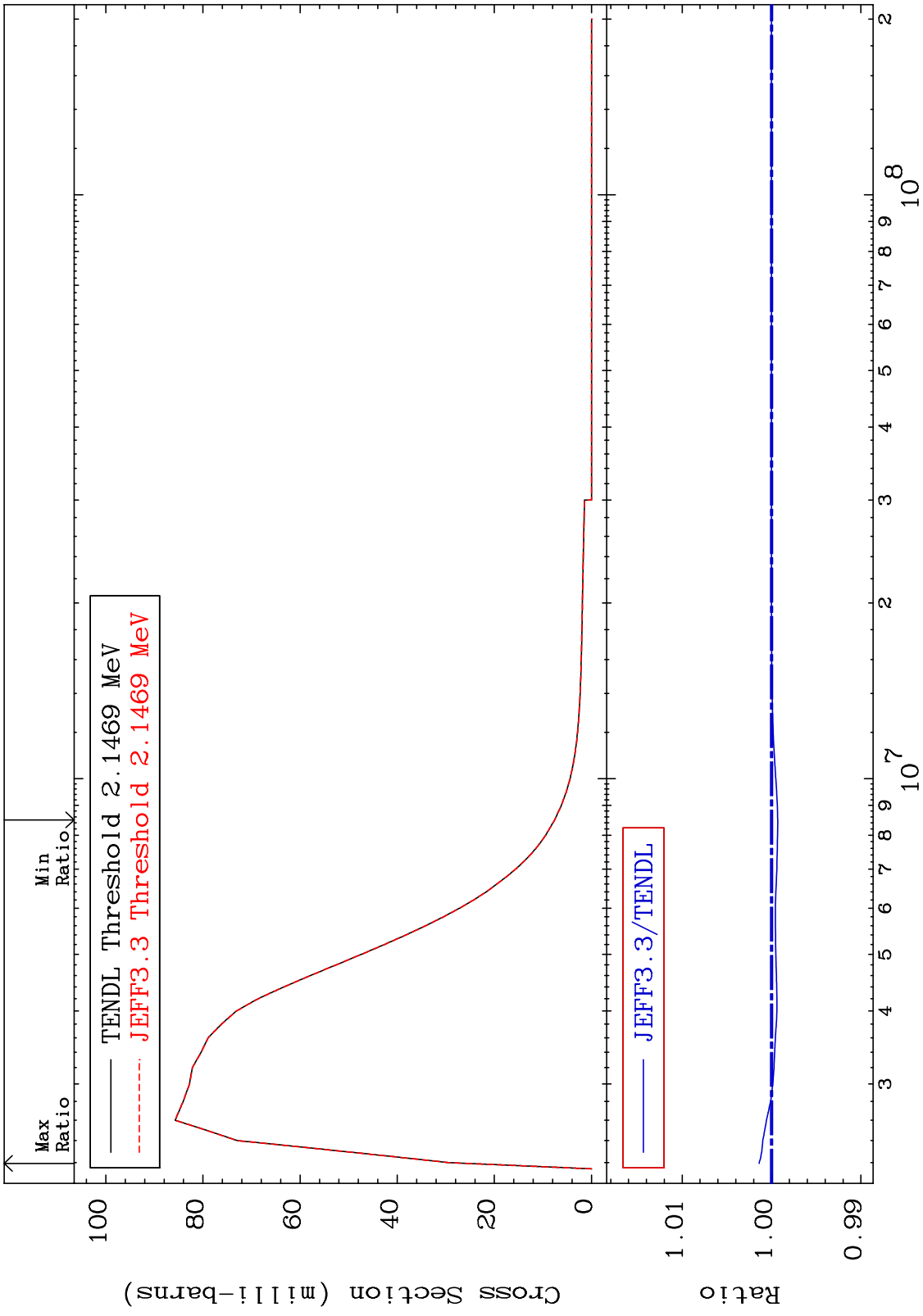


21 18-Ar-39

MAT 1834 MT= 52 (n,n') Level Cross Section -0.176 To 0.556 % 18-Ar-39

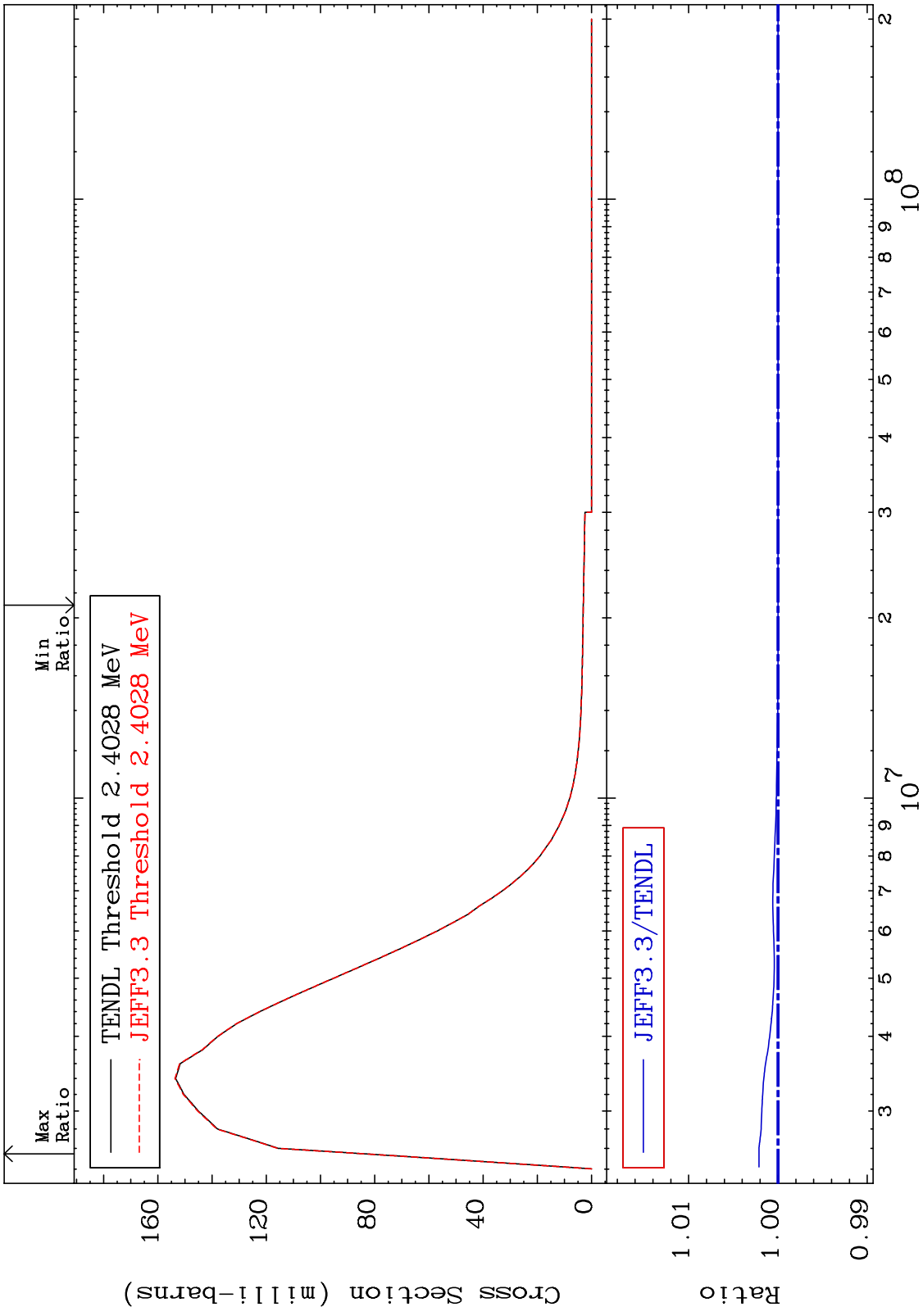


MAT 1834 MT= 53 (n,n') Level Cross Section 18-Ar-39 -0.069 To 0.139 %

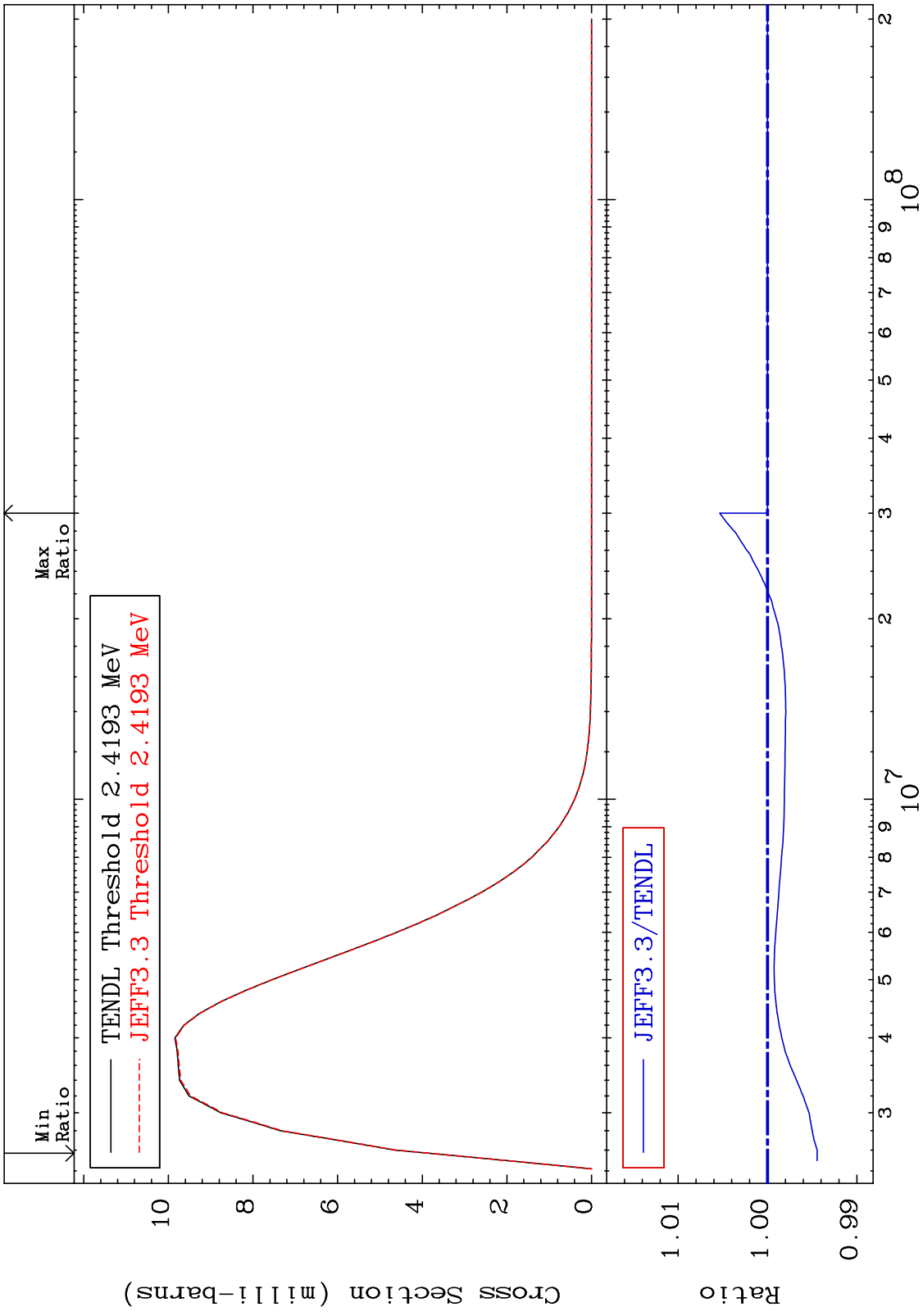




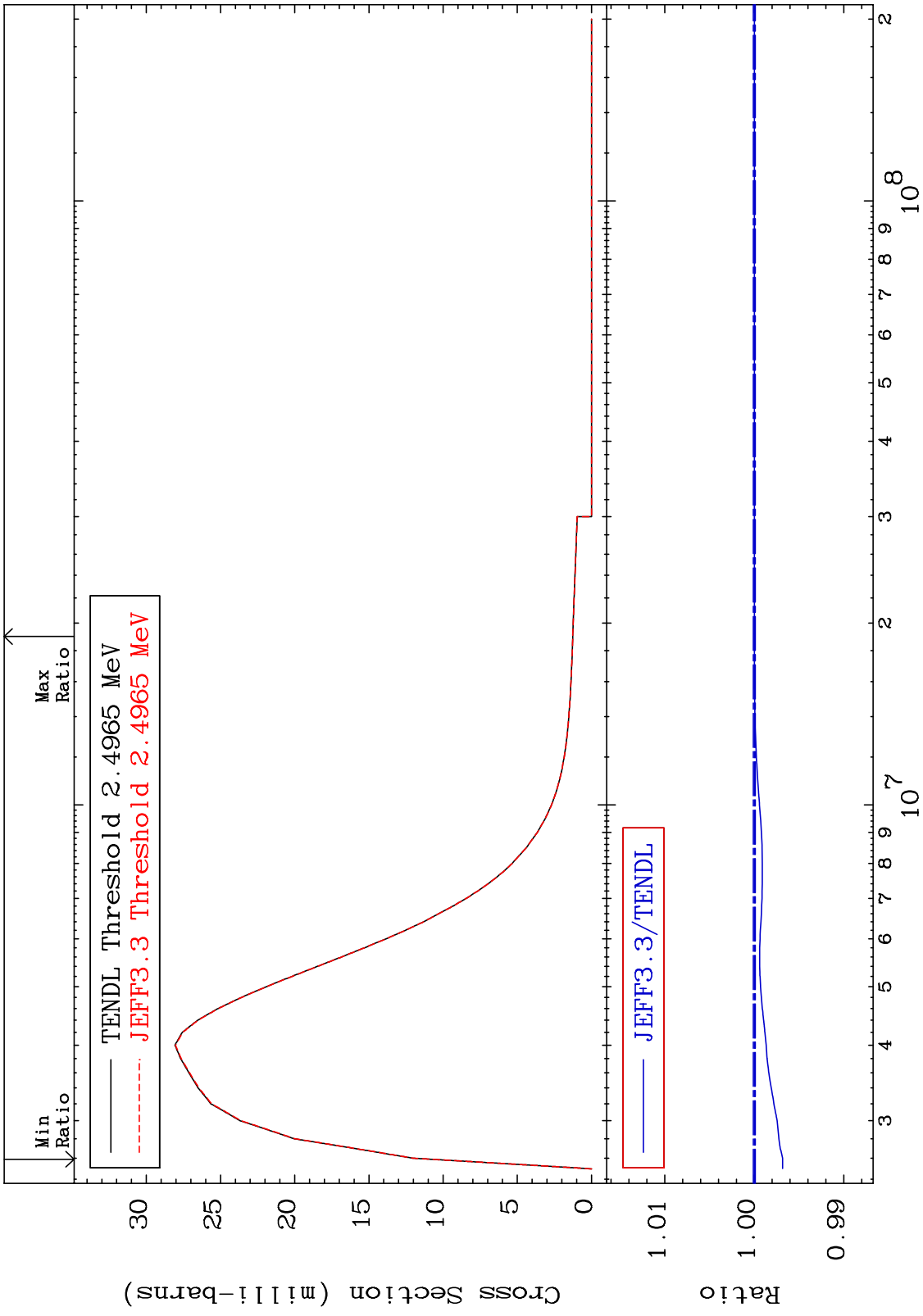
MAT 1834 MT= 54 (n,n') Level Cross Section 18-Ar-39 To 0.214 %



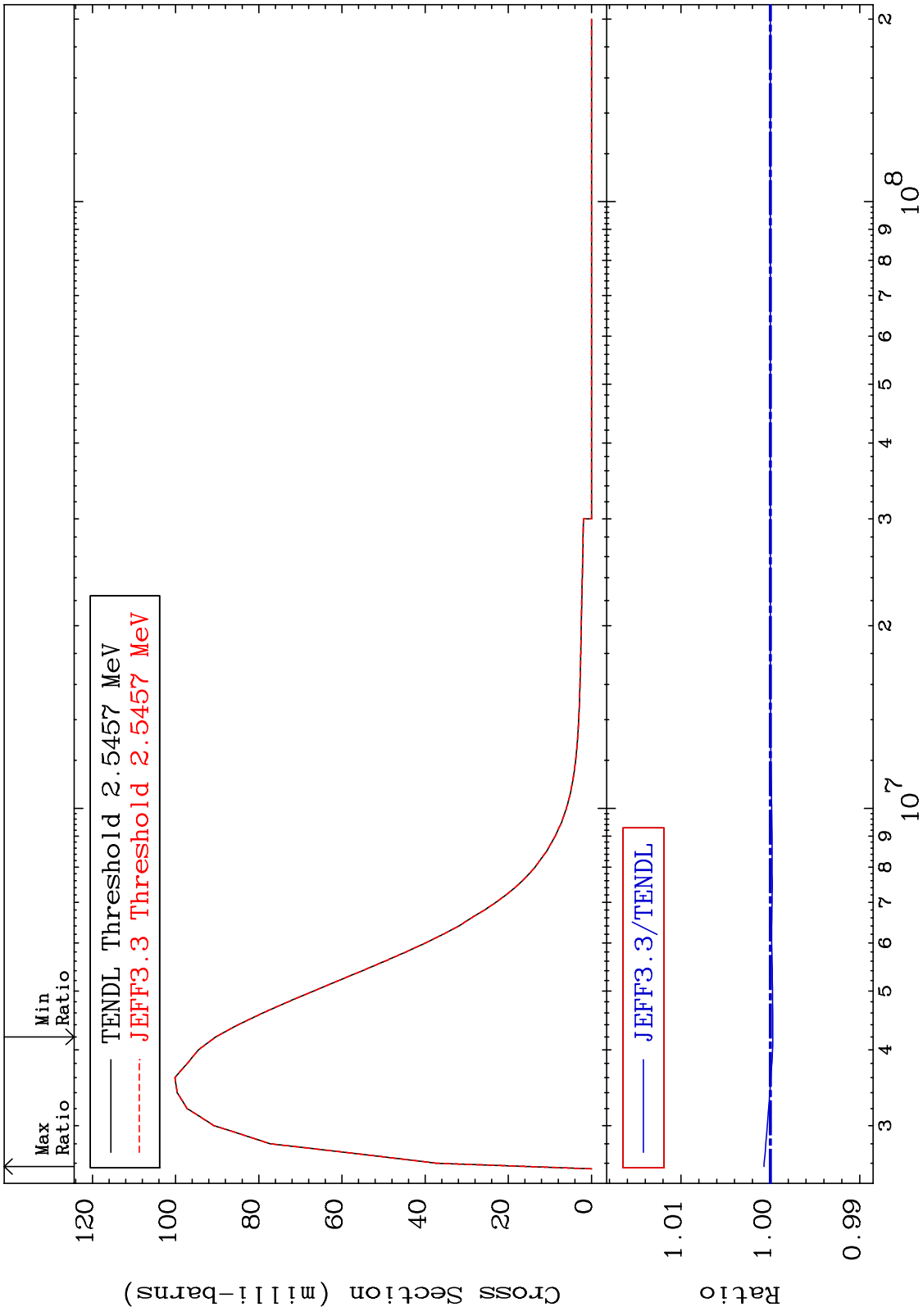
MAT 1834 MT= 55 (n,n') Level Cross Section -0.555 To 0.535 % 18-Ar-39



MAT 1834 MT= 56 (n,n') Level Cross Section -0.316 To 0.000 % 18-Ar-39



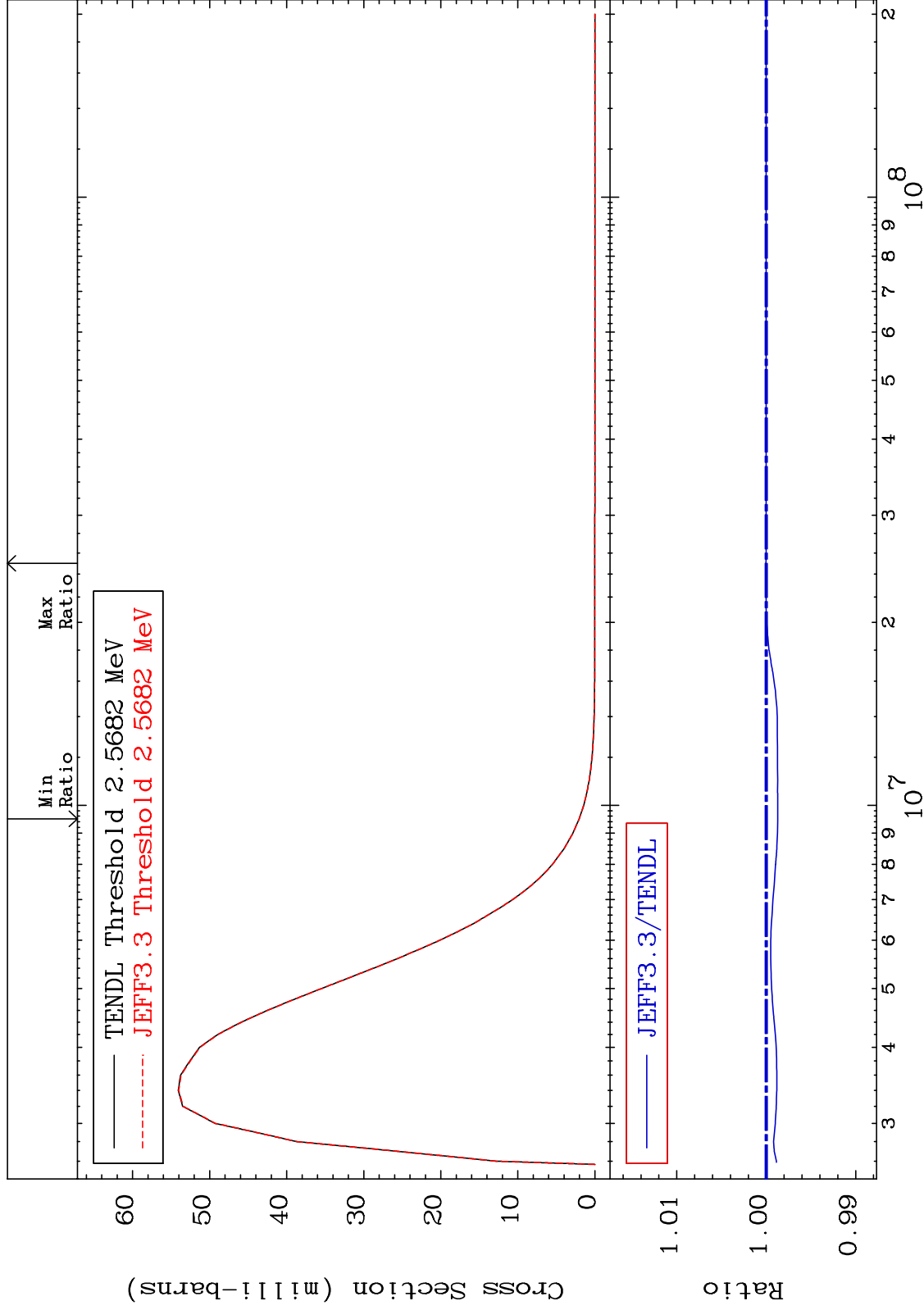
MAT 1834 MT= 57 (n,n') Level Cross Section -0.028 To 0.071 % 18-Ar-39



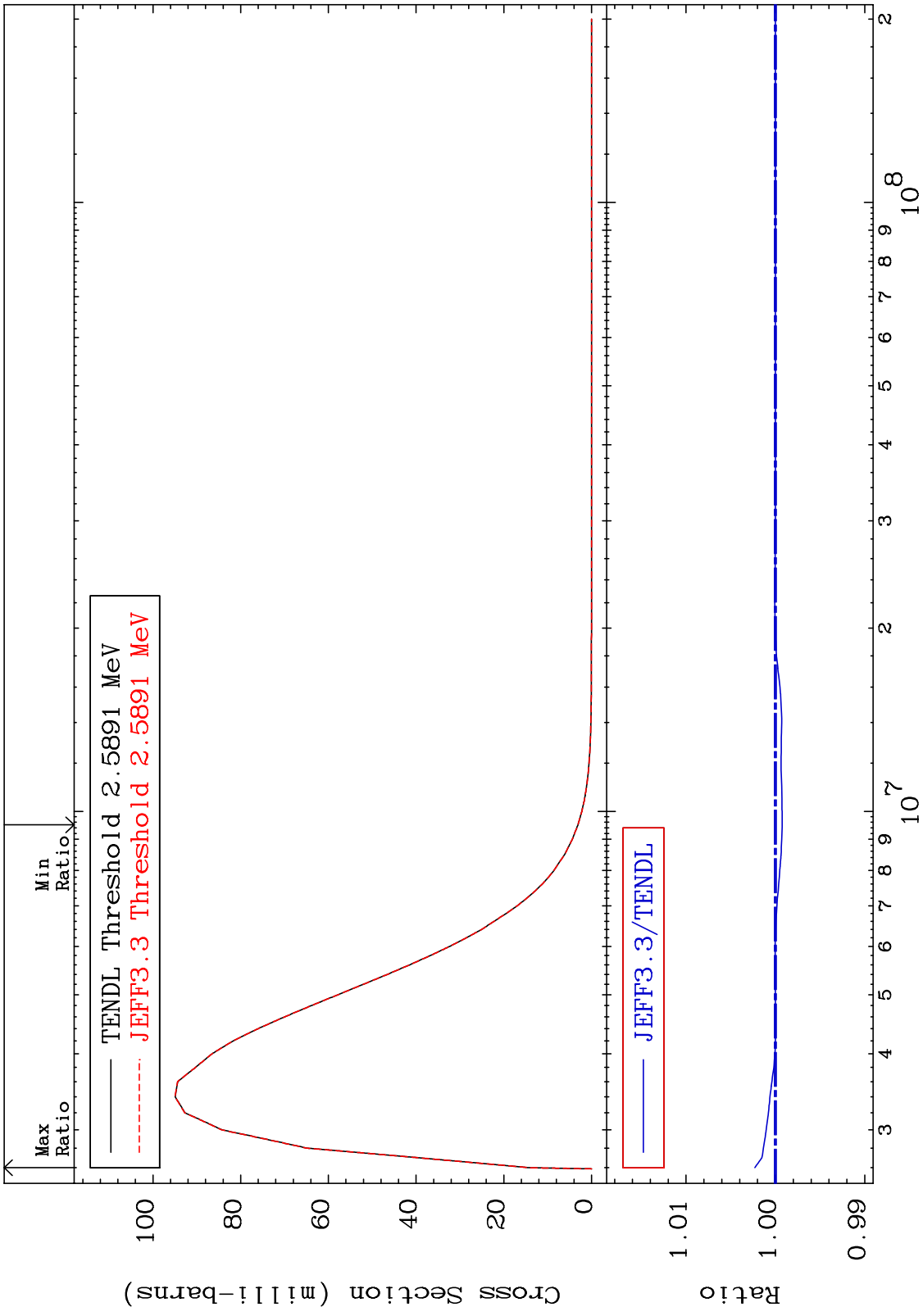
MAT 1834

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

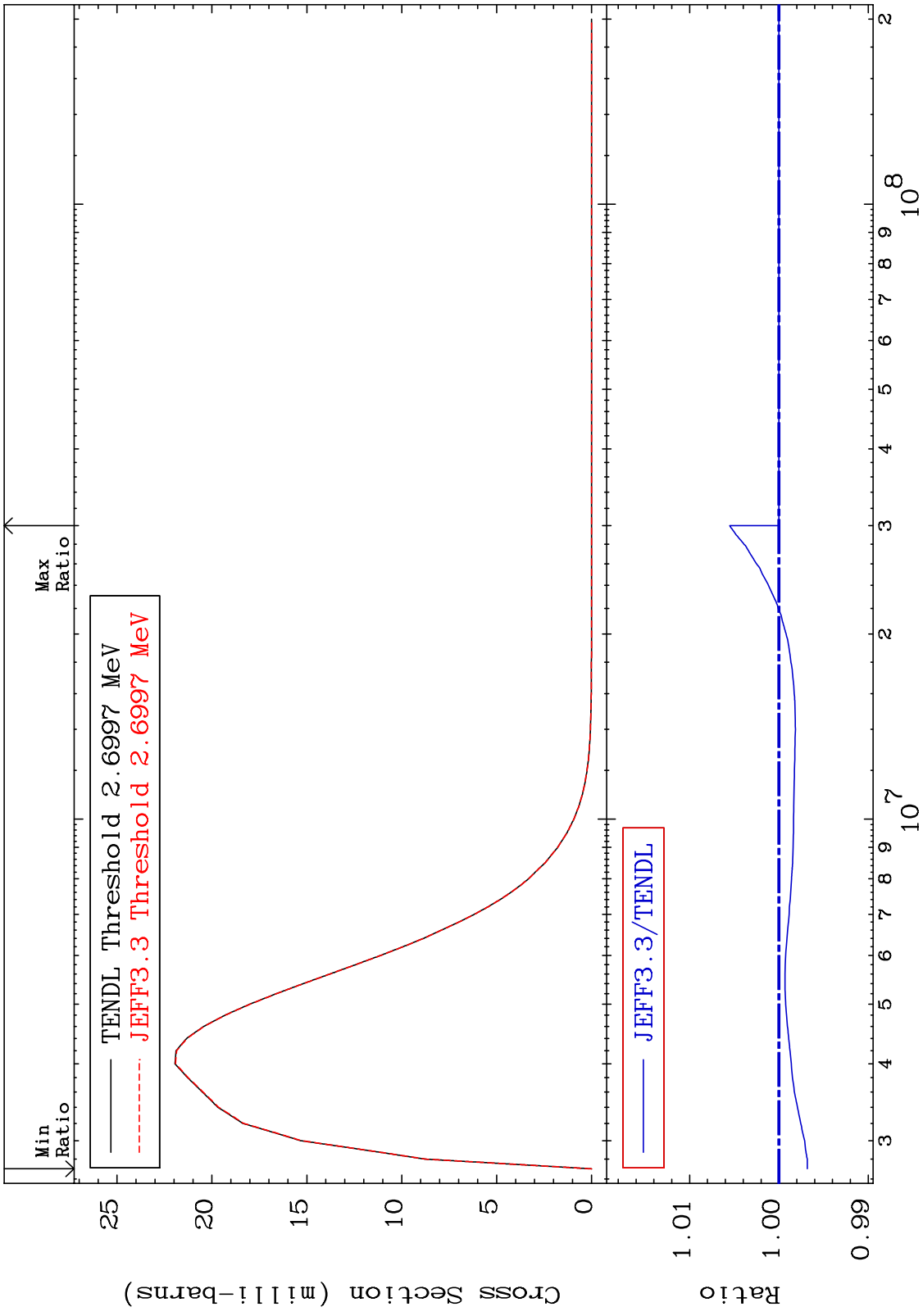
18-Ar-39  
-0.129 To 0.002 %



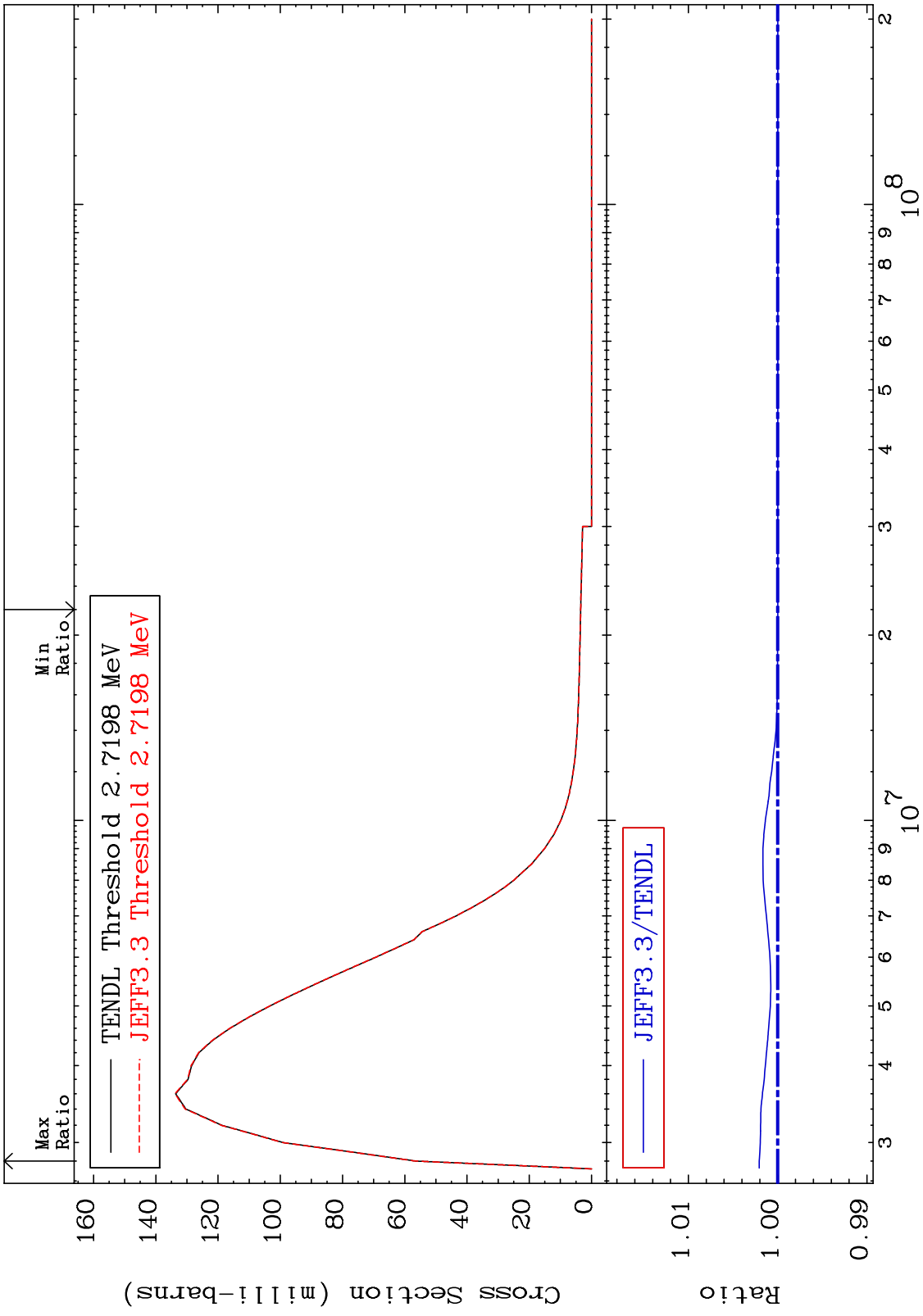
MAT 1834 MT= 59 (n,n') Level Cross Section 18-Ar-39  
 -0.075 To 0.231 %



MAT 1834 MT= 60 (n,n') Level Cross Section 18-Ar-39  
 -0.317 To 0.552 %

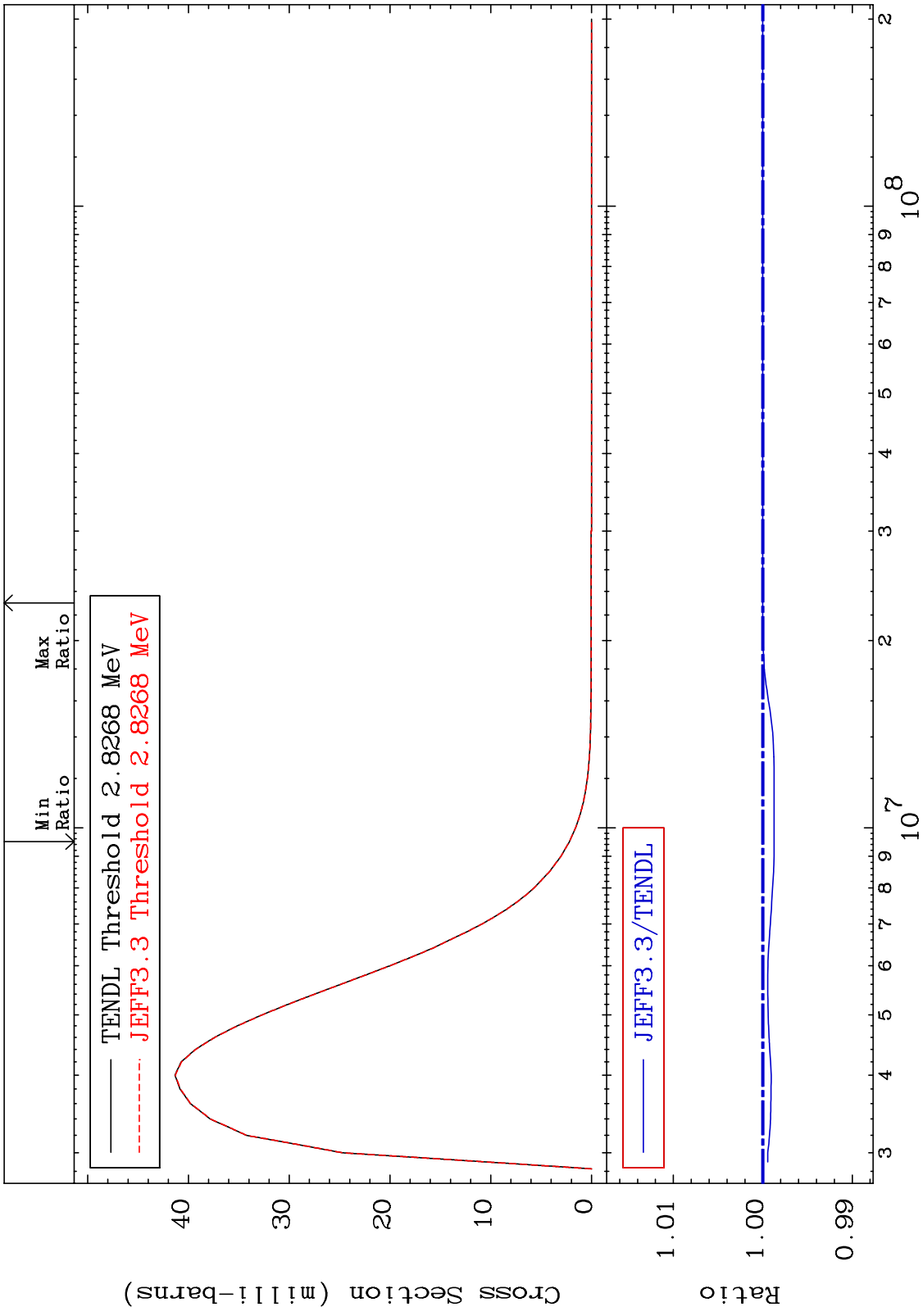


MAT 1834 MT= 61 (n,n') Level Cross Section 18-Ar-39 To 0.207 %

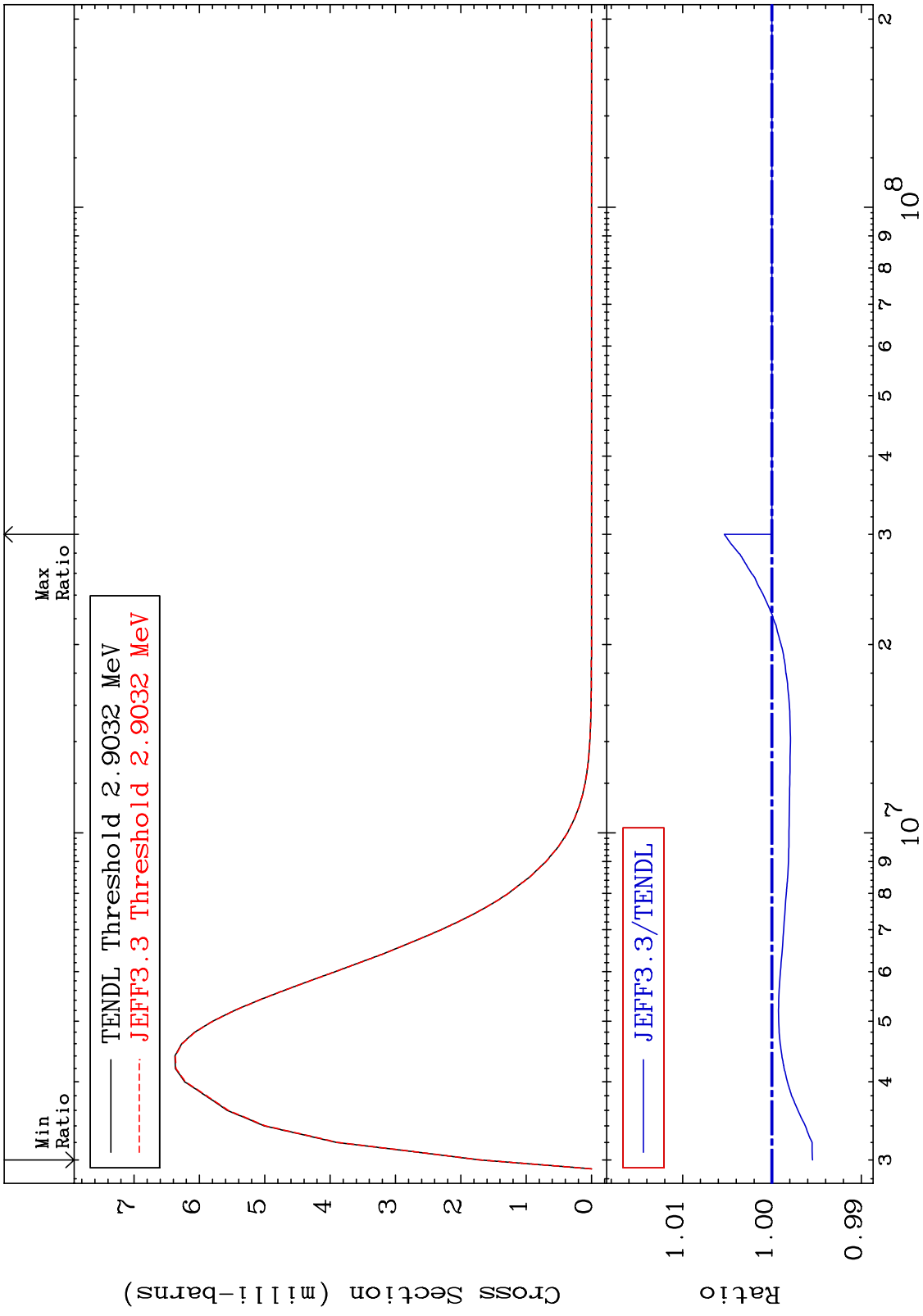




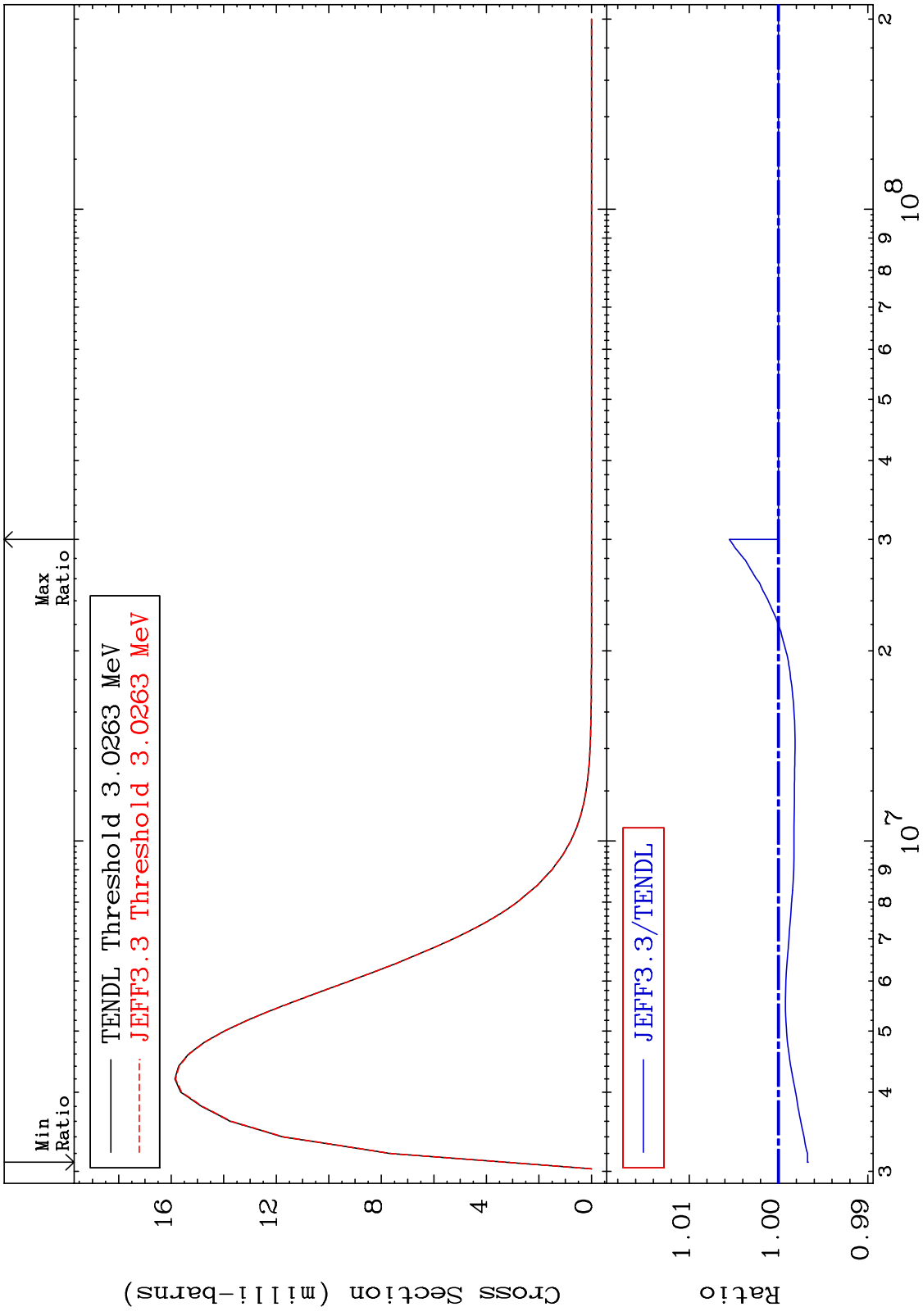
MAT 1834 MT= 62 (n,n') Level Cross Section -0.127 To 0.000 % 18-Ar-39



MAT 1834 MT= 63 (n,n') Level Cross Section -0.454 To 0.533 % 18-Ar-39

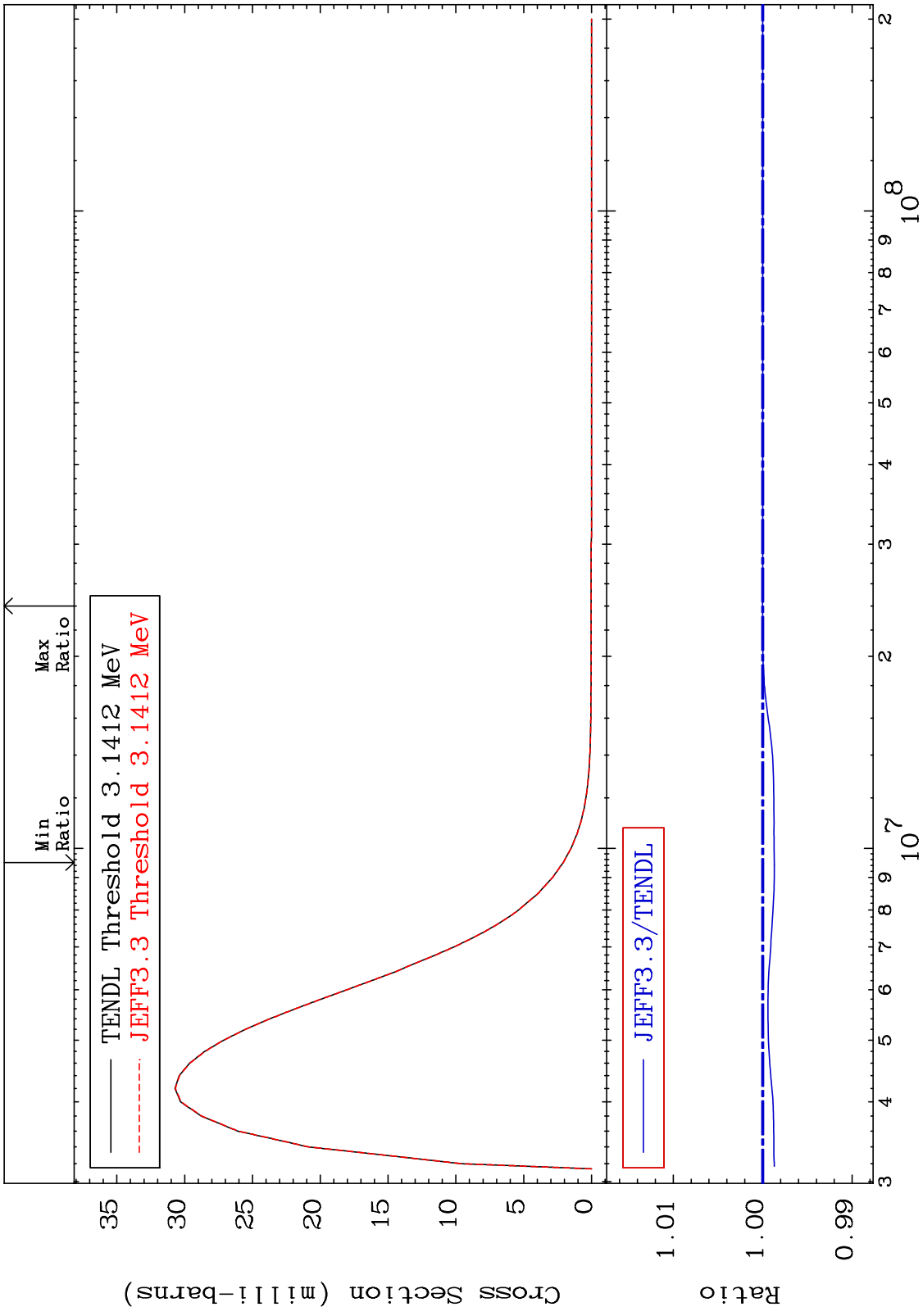


MAT 1834 MT= 64 (n,n') Level Cross Section -0.325 To 0.550 % 18-Ar-39

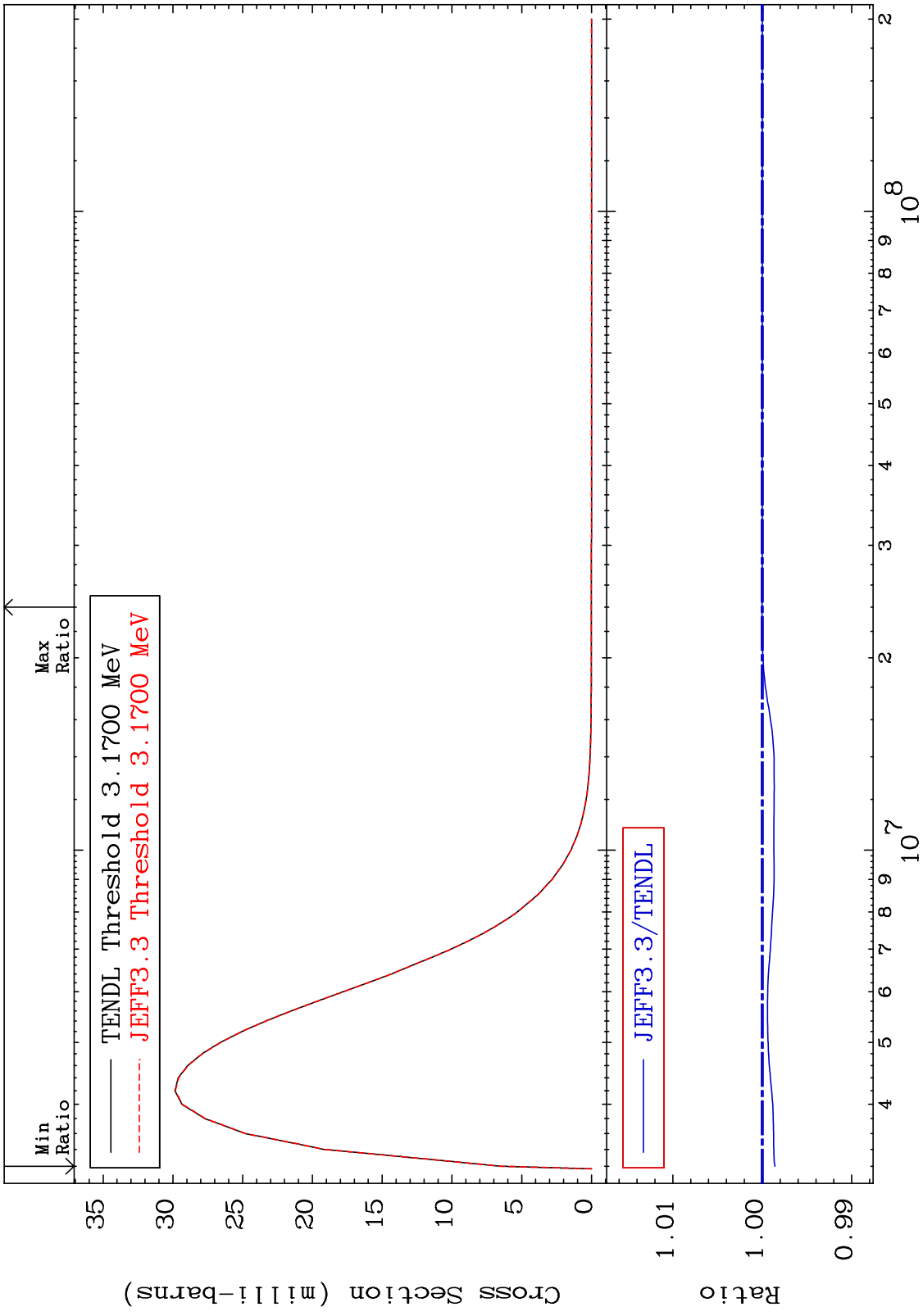


34 18-Ar-39

MAT 1834 MT= 65 (n,n') Level Cross Section -0.130 To 0.001 % 18-Ar-39



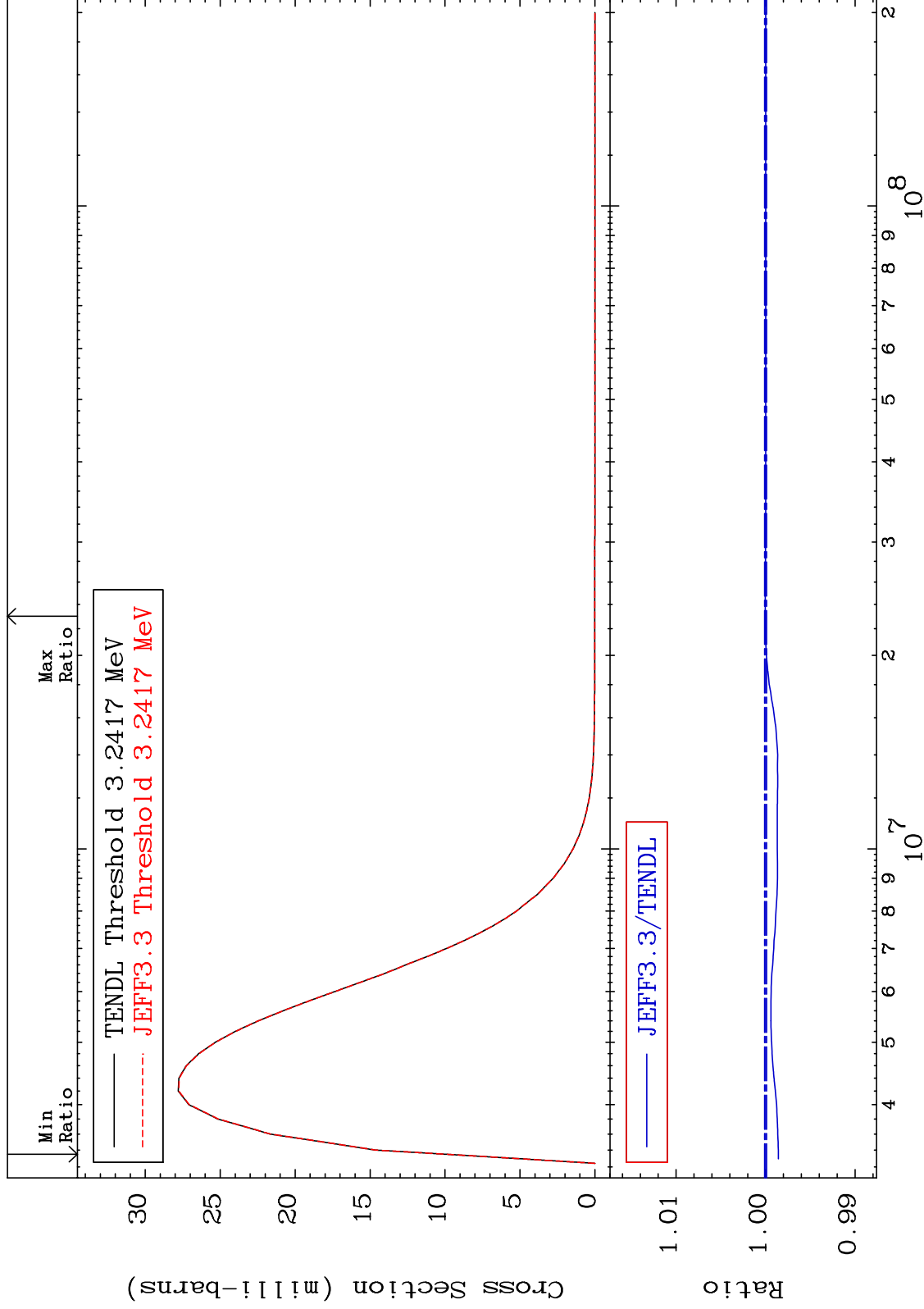
MAT 1834 MT= 66 (n,n') Level Cross Section -0.141 To 0.002 % 18-Ar-39



MAT 1834

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

18-Ar-39  
-0.144 To 0.003 %

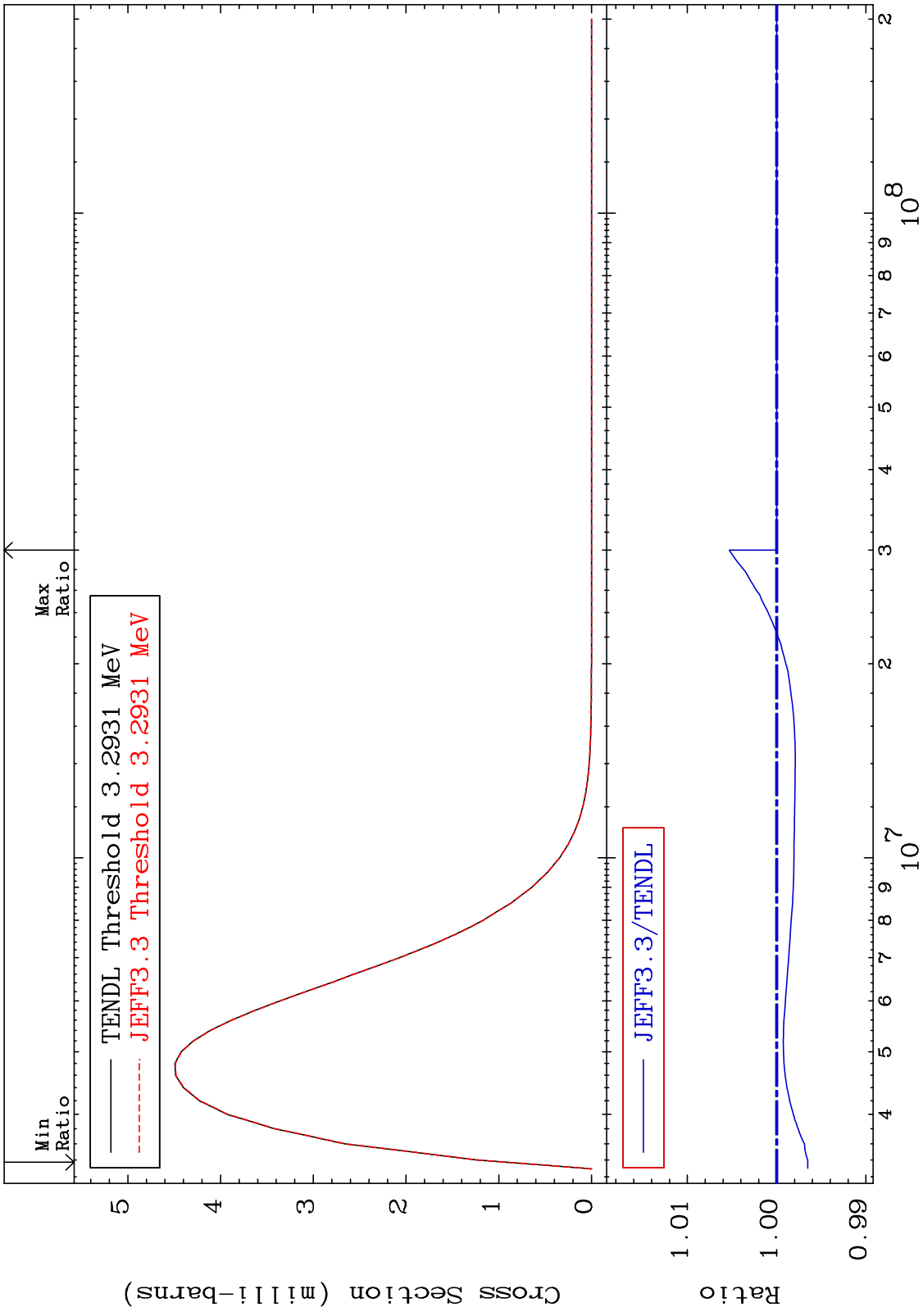


37

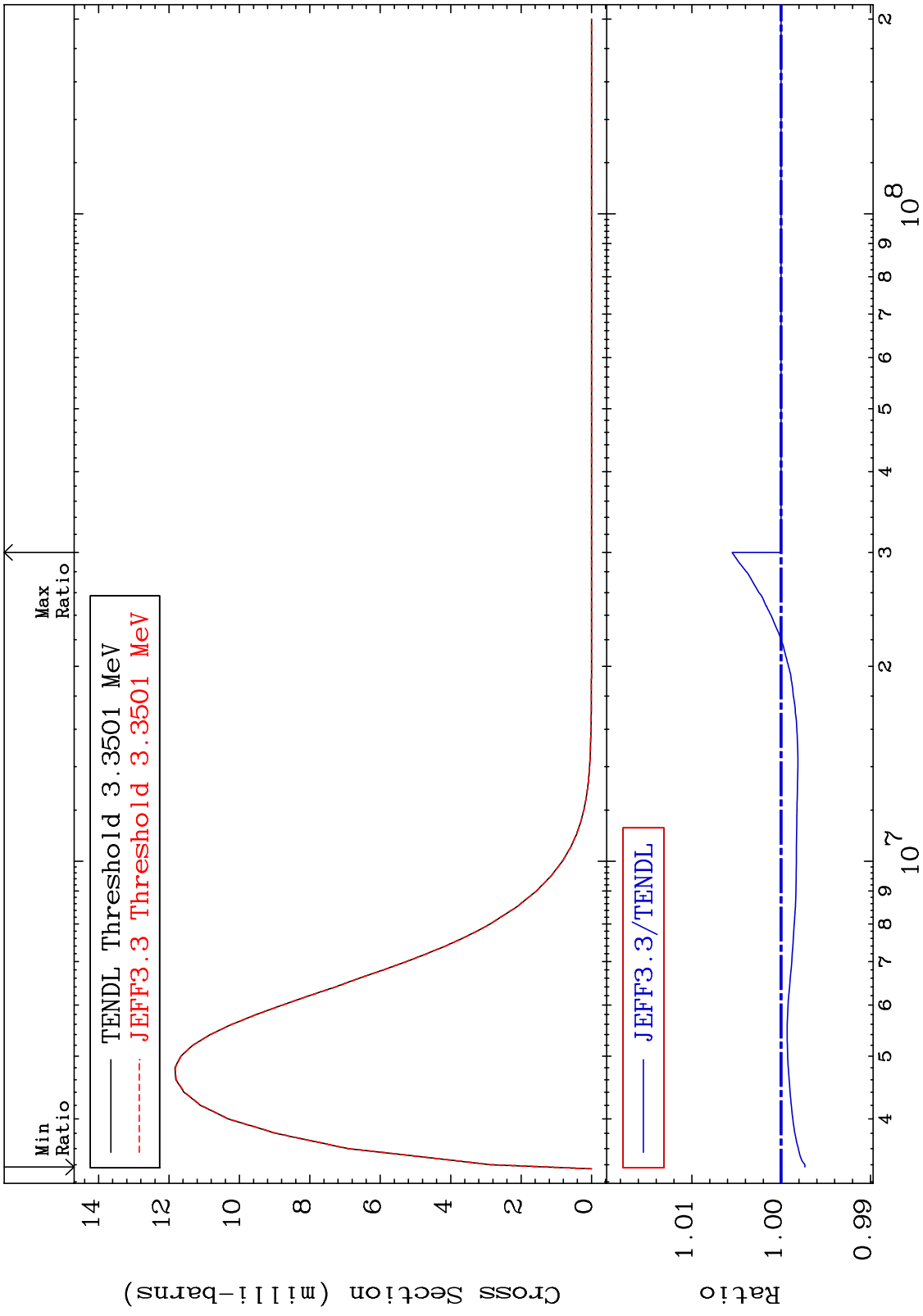
Incident Energy (eV)

18-Ar-39

MAT 1834 MT= 68 (n,n') Level Cross Section -0.348 To 0.532 % 18-Ar-39

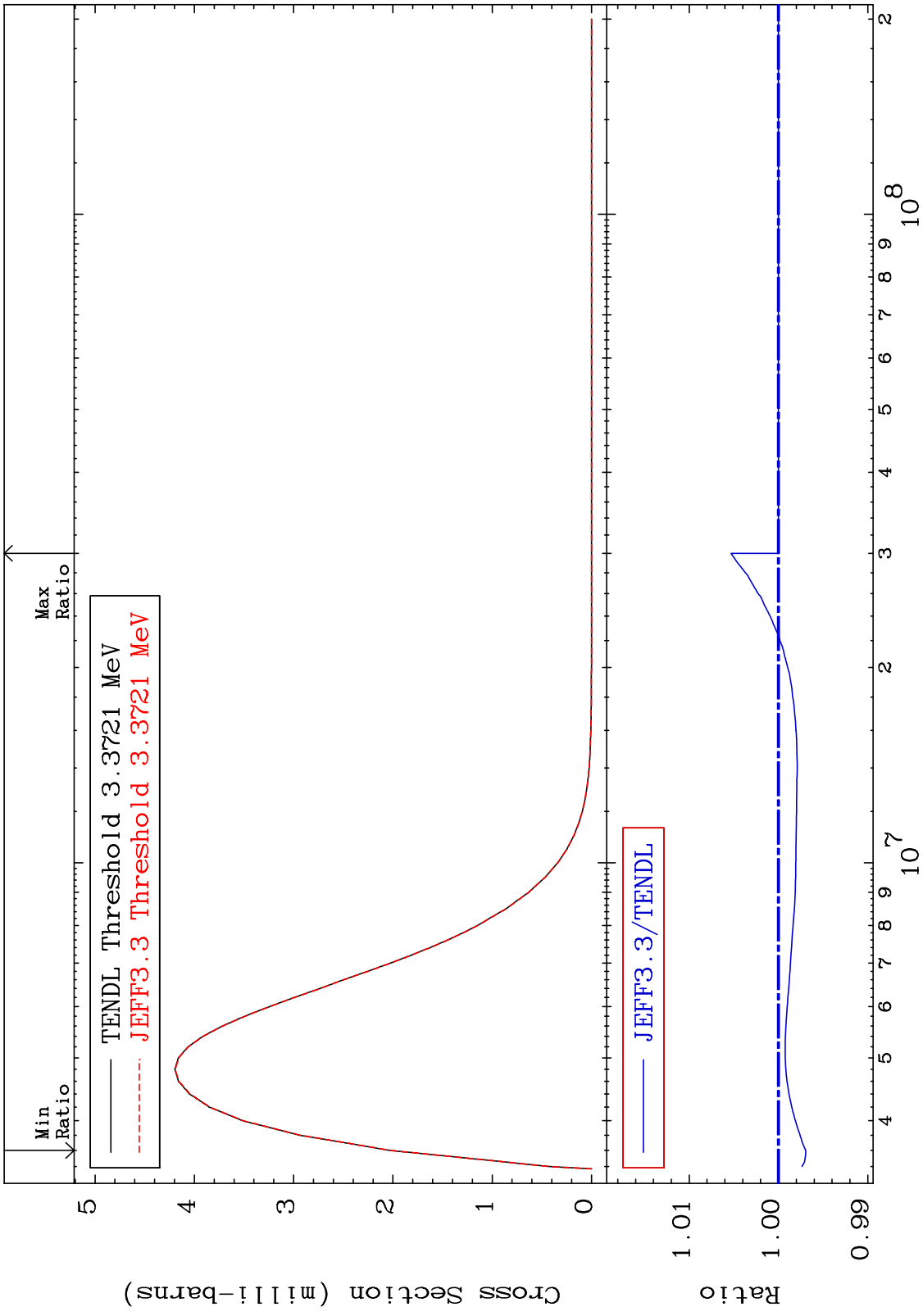


MAT 1834 MT= 69 (n,n') Level Cross Section -0.266 To 0.550 % 18-Ar-39



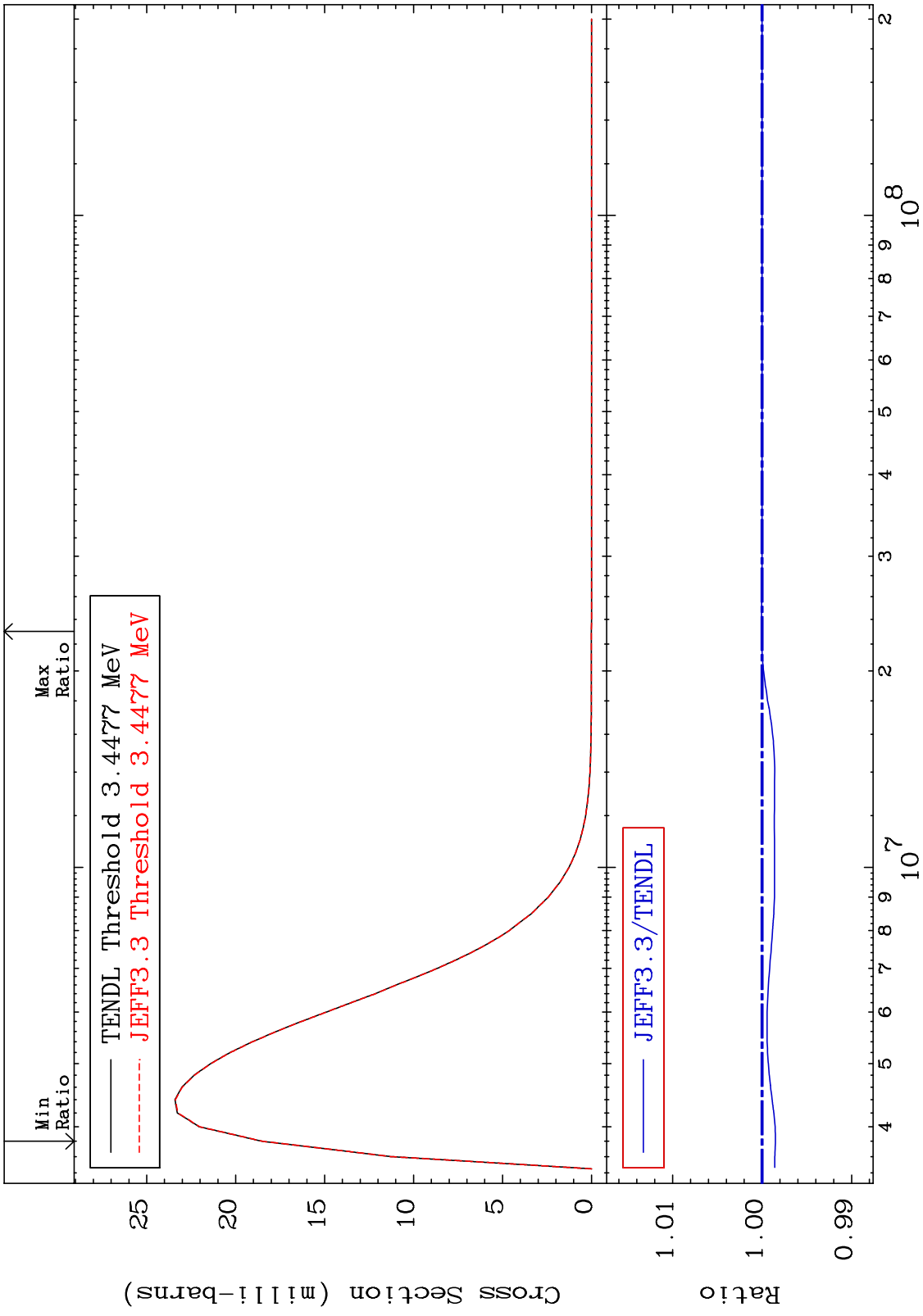


MAT 1834 MT= 70 (n,n') Level Cross Section 18-Ar-39  
 -0.306 To 0.531 %



40 18-Ar-39

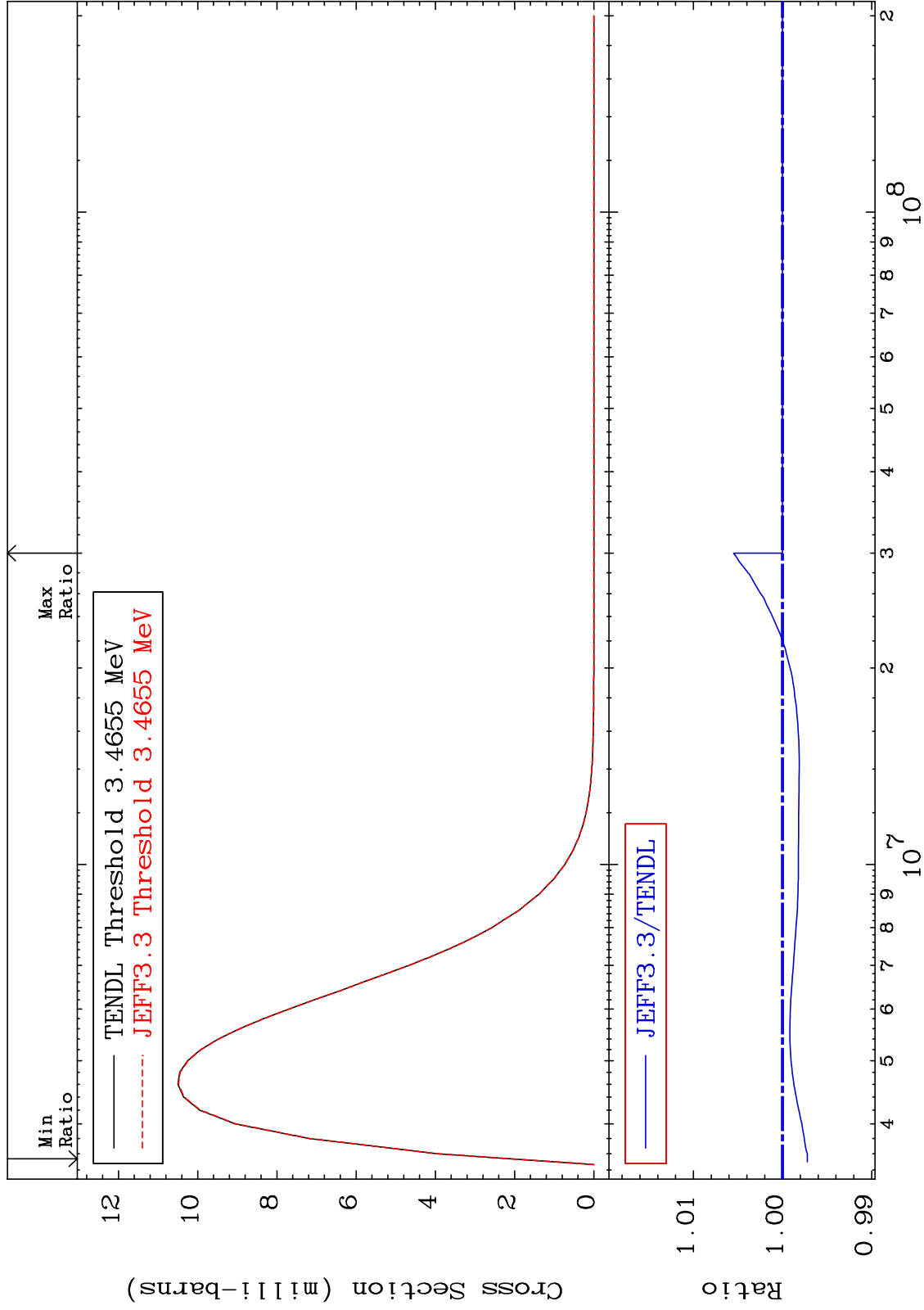
MAT 1834 MT= 71 (n,n') Level Cross Section -0.149 To 0.007 % 18-Ar-39



MAT 1834

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

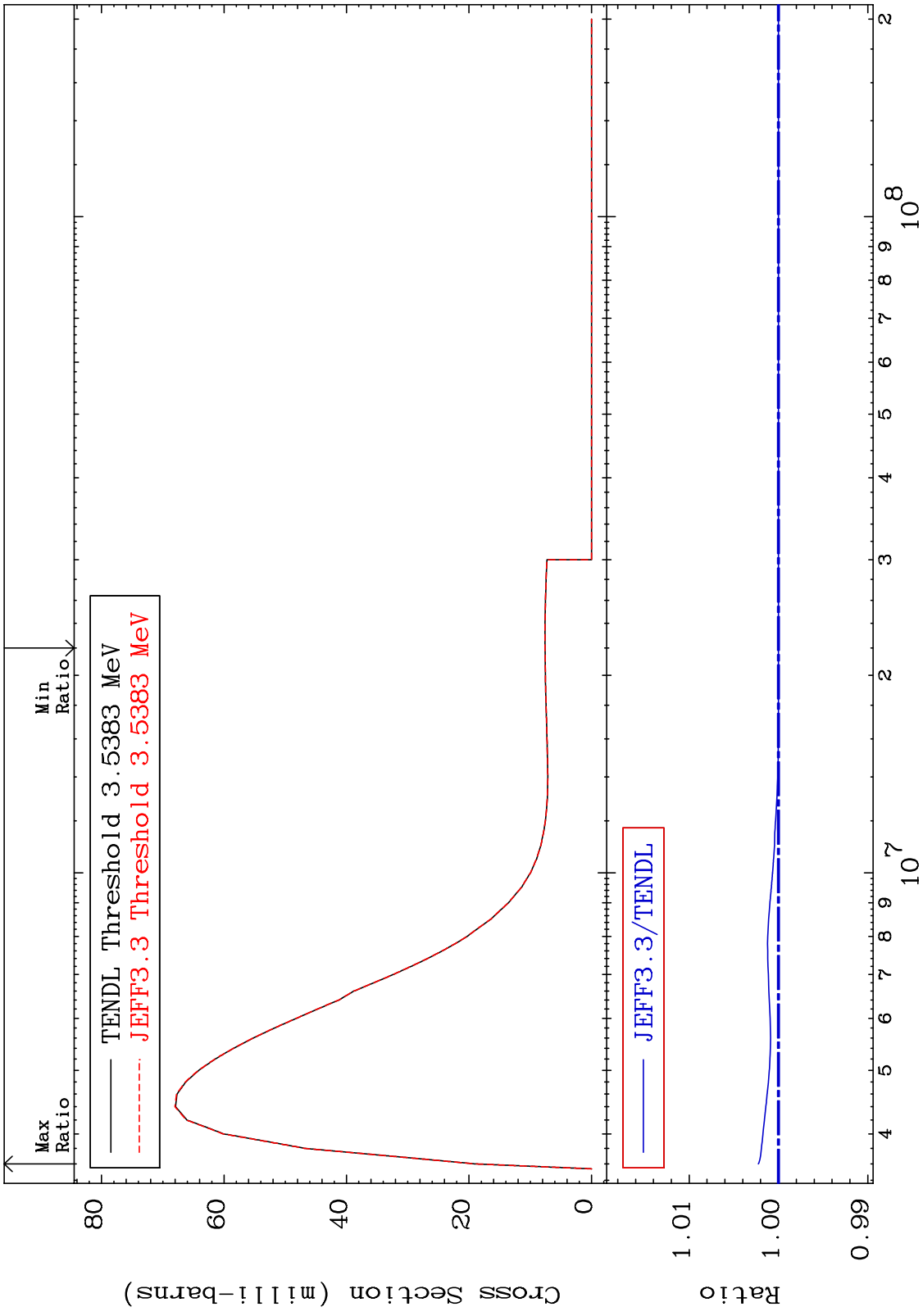
18-Ar-39  
-0.279 To 0.548 %



42

18-Ar-39

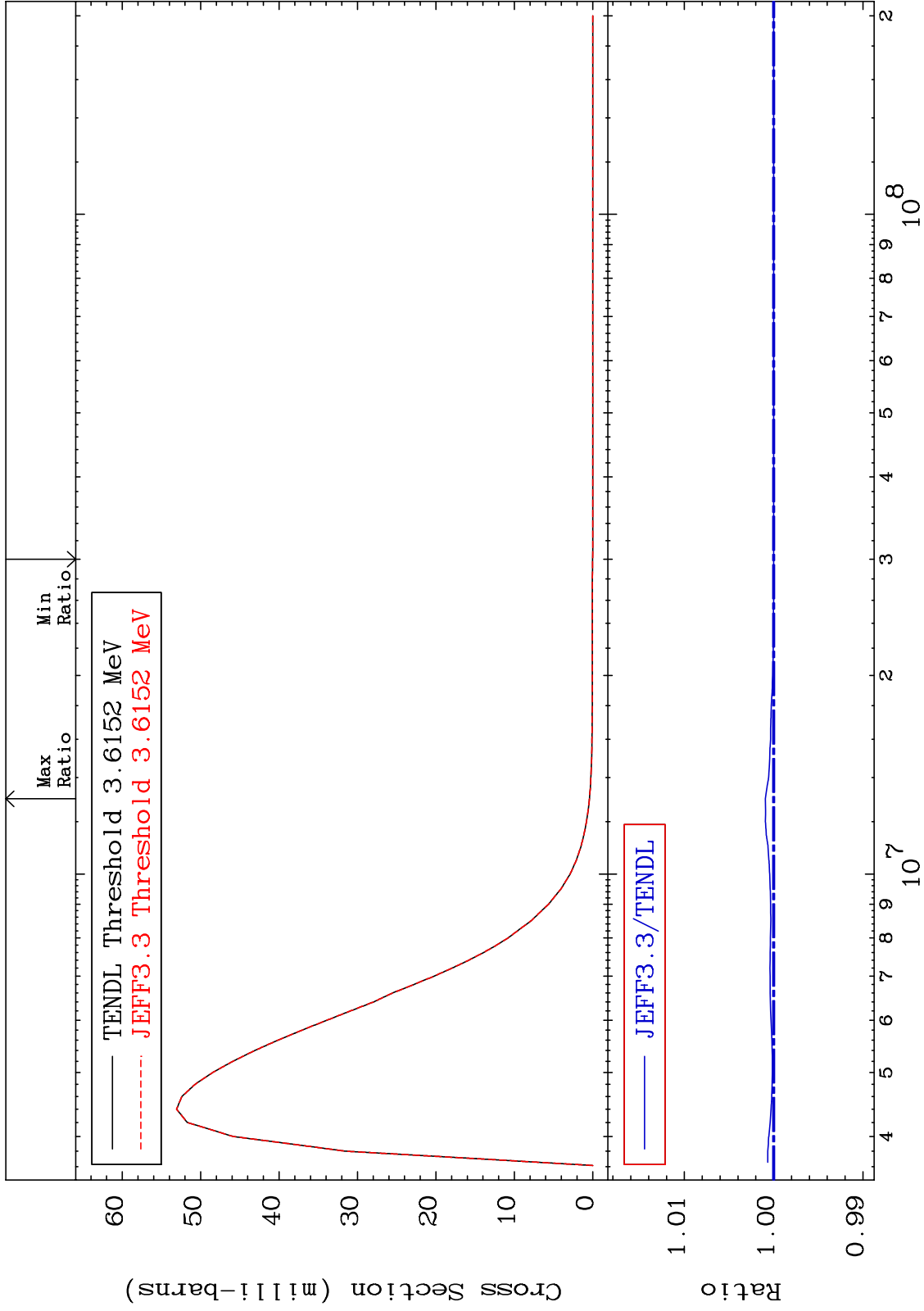
MAT 1834 MT= 73 (n,n') Level Cross Section 18-Ar-39 To 0.225 %



MAT 1834

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

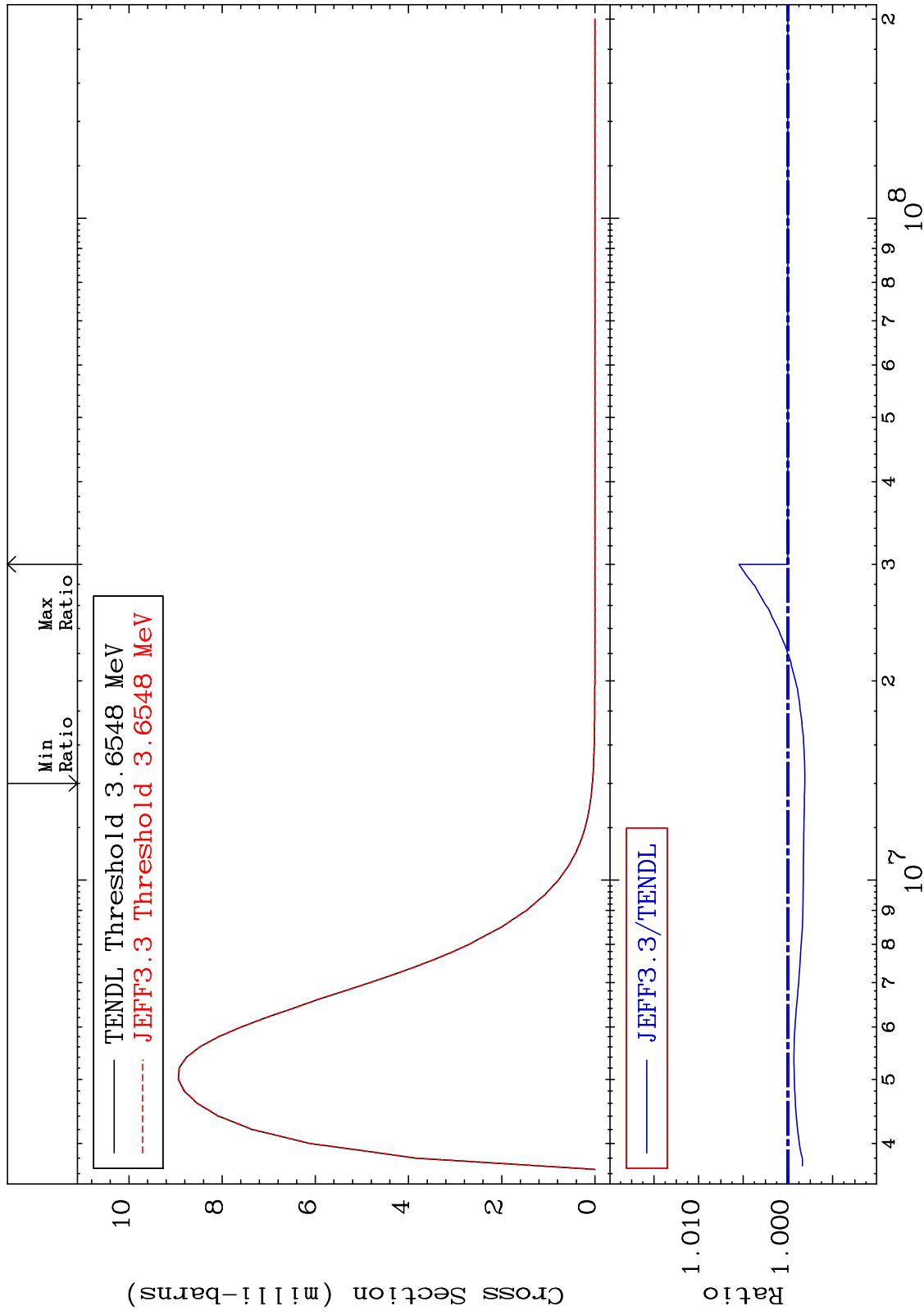
18-Ar-39  
0.000 To 0.092 %



MAT 1834

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

18-Ar-39  
-0.190 To 0.548 %



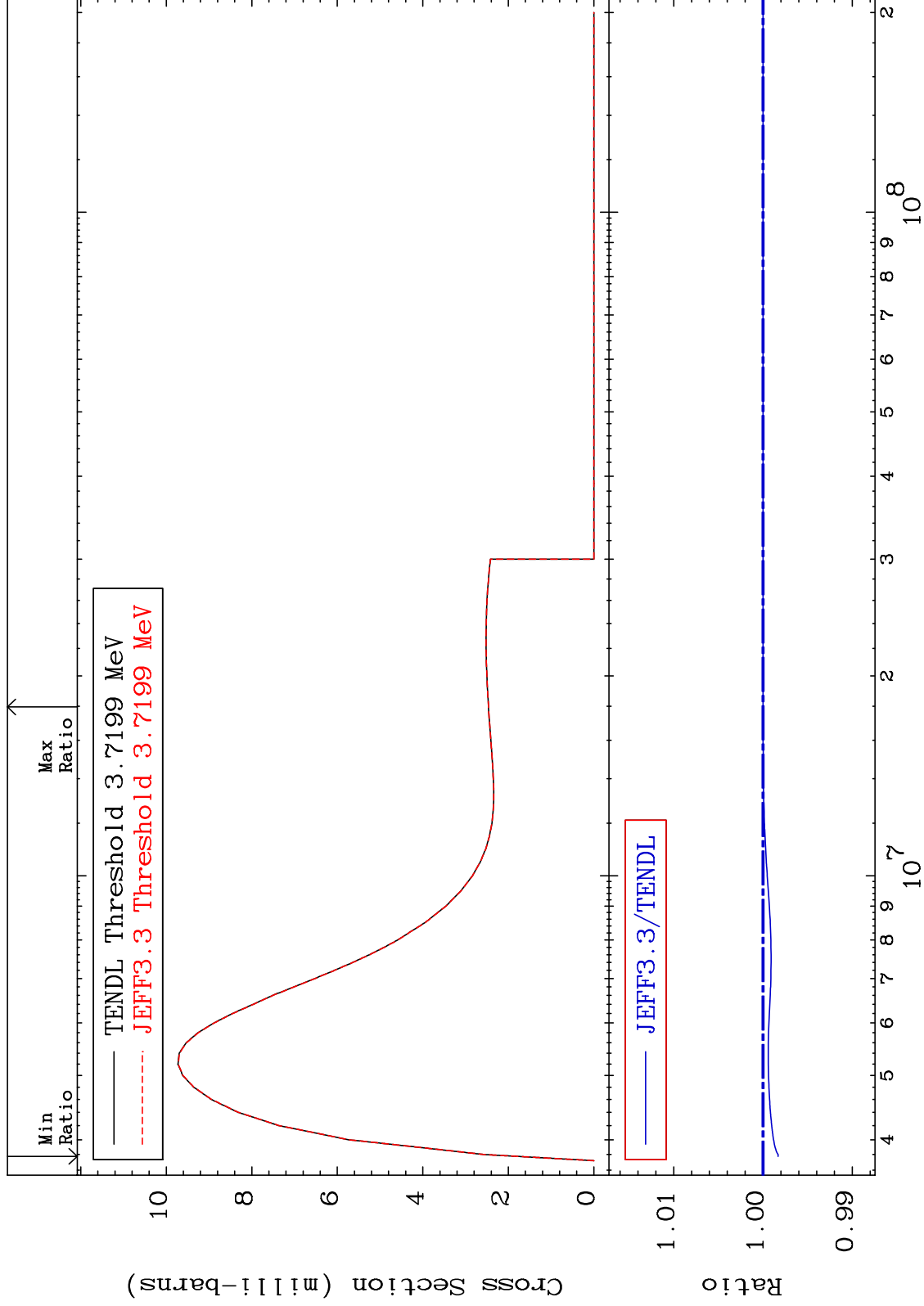
45

18-Ar-39

MAT 1834

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

18-Ar-39  
-0.167 To 0.000 %



46

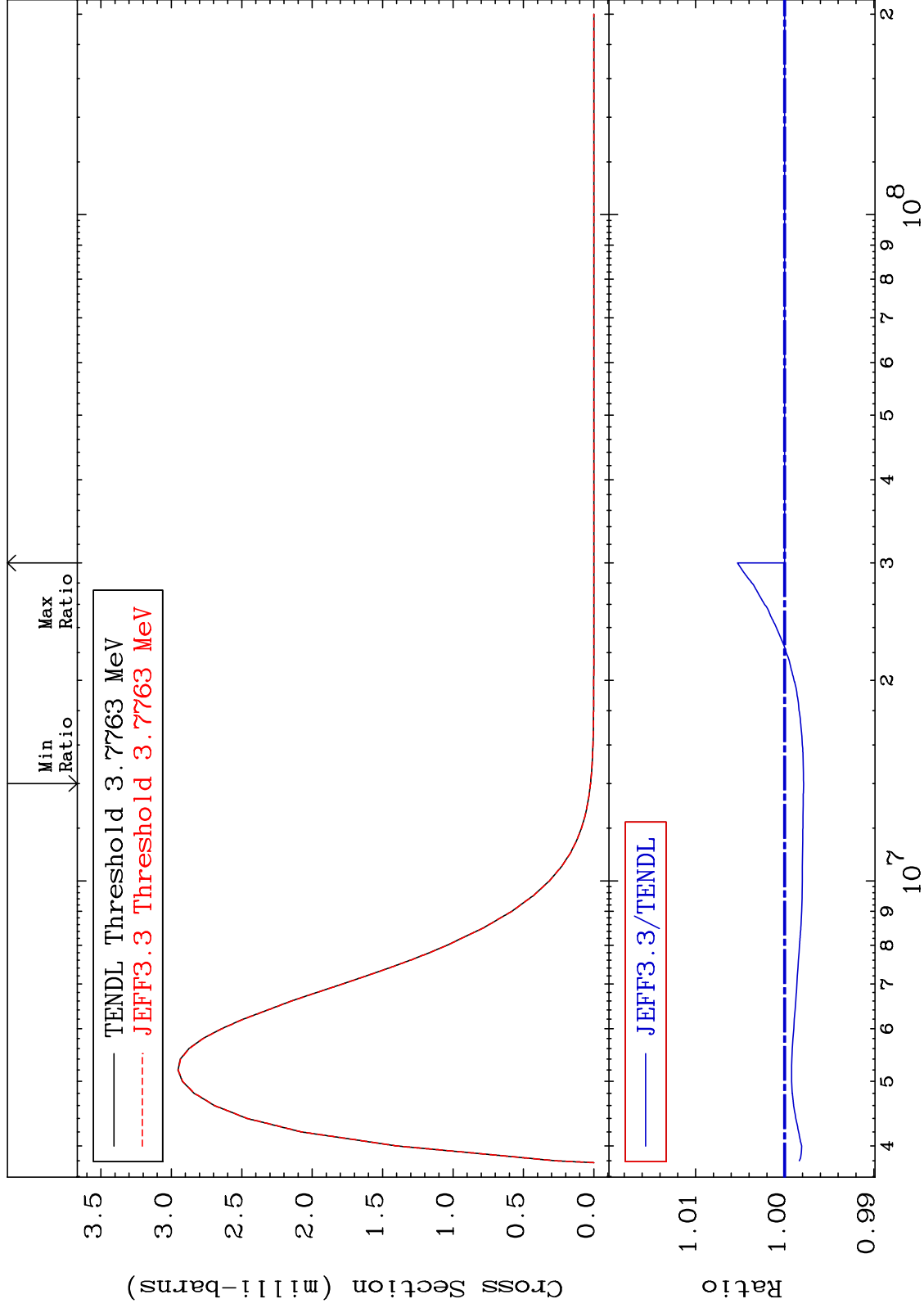
Incident Energy (eV)

18-Ar-39

MAT 1834

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

18-Ar-39  
-0.211 To 0.530 %



47

Incident Energy (eV)

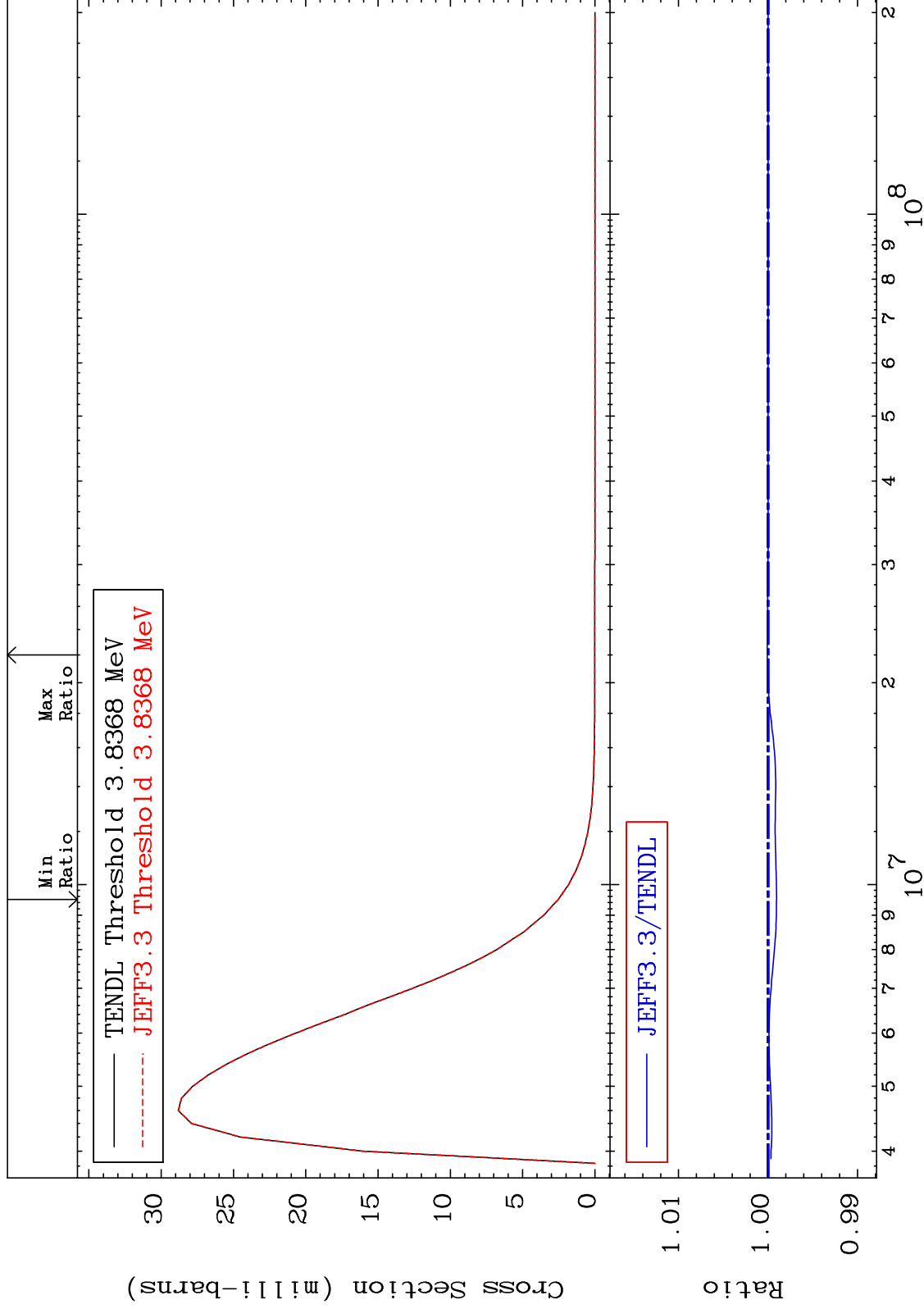
18-Ar-39



MAT 1834

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

18-Ar-39  
-0.095 To 0.009 %

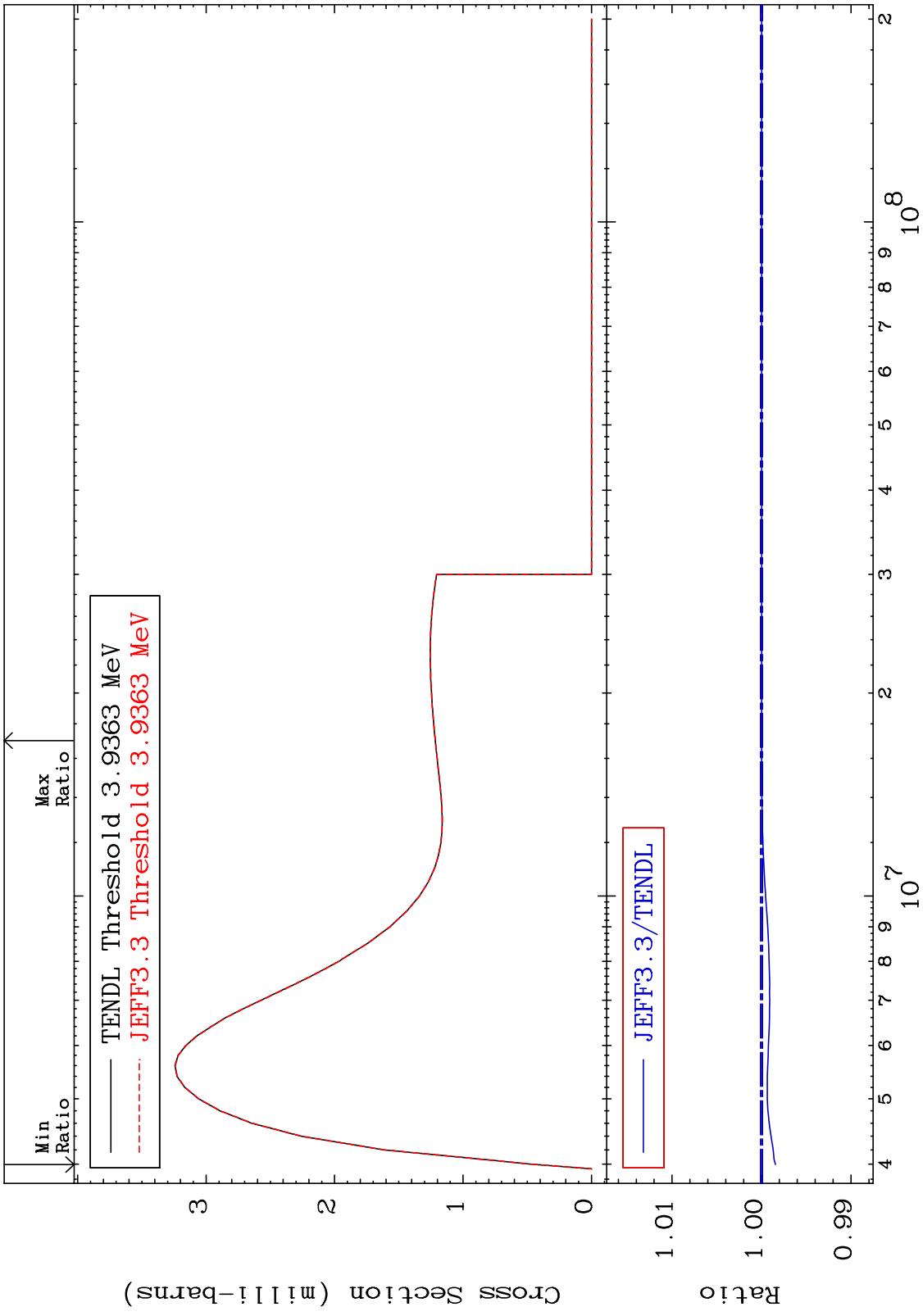


48

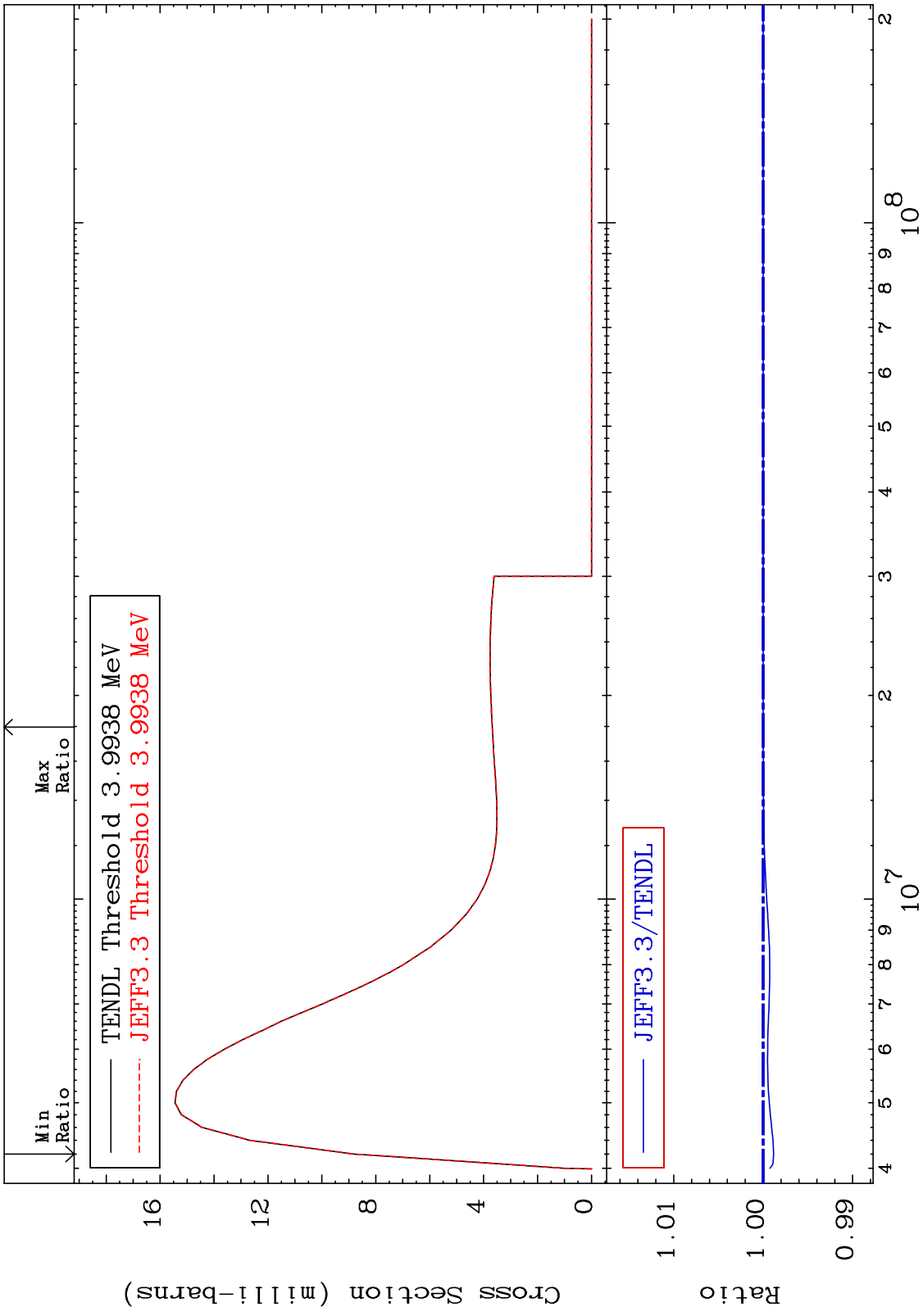
Incident Energy (eV)

18-Ar-39

MAT 1834 MT= 79 (n,n') Level Cross Section 18-Ar-39  
 -0.155 To 0.000 %



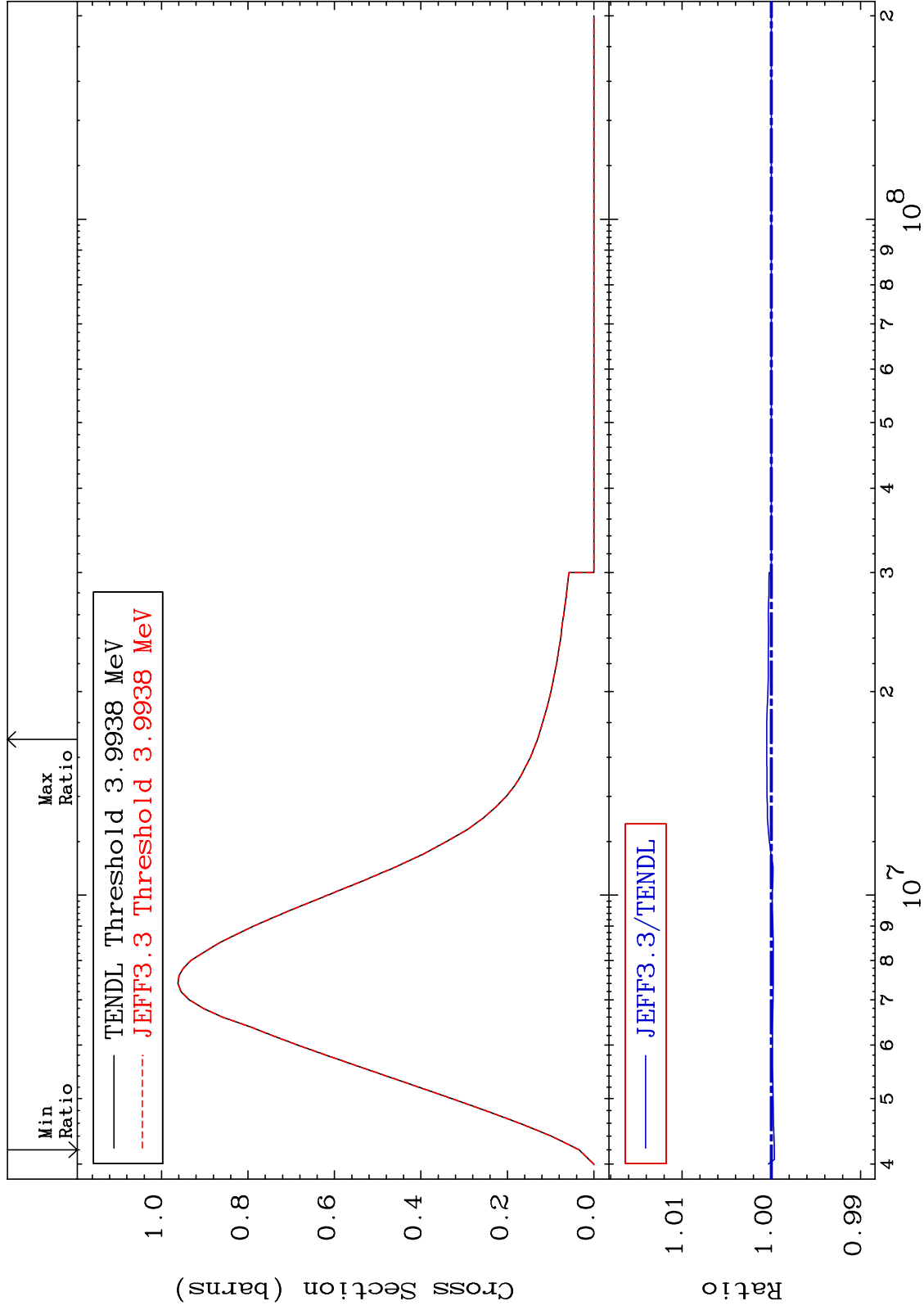
MAT 1834 MT= 80 (n,n') Level Cross Section 18-Ar-39  
-0.118 To 0.000 %



MAT 1834

(n, n') Continuum  
Cross Section

18-Ar-39  
-0.035 To 0.052 %



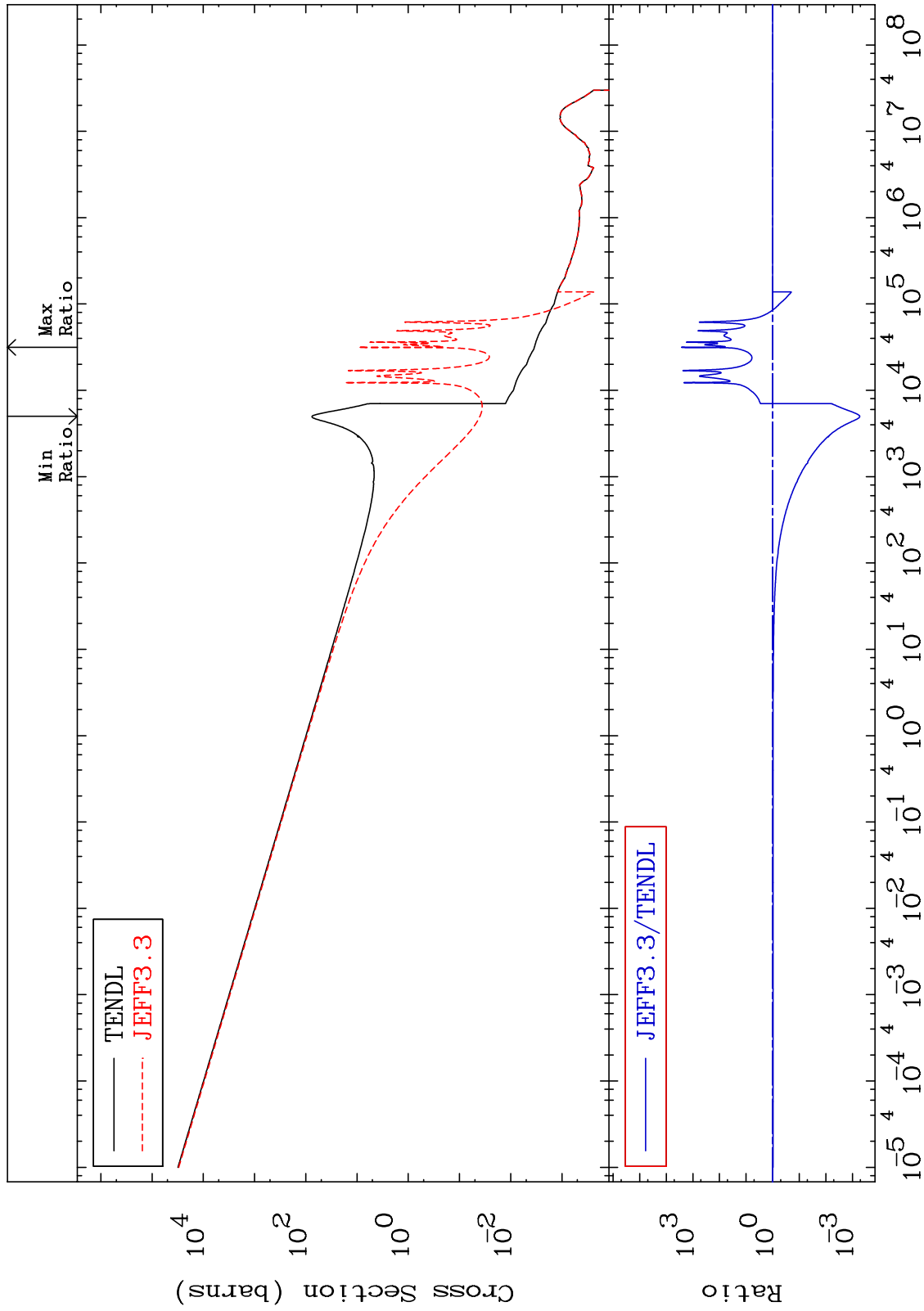
MAT 1834

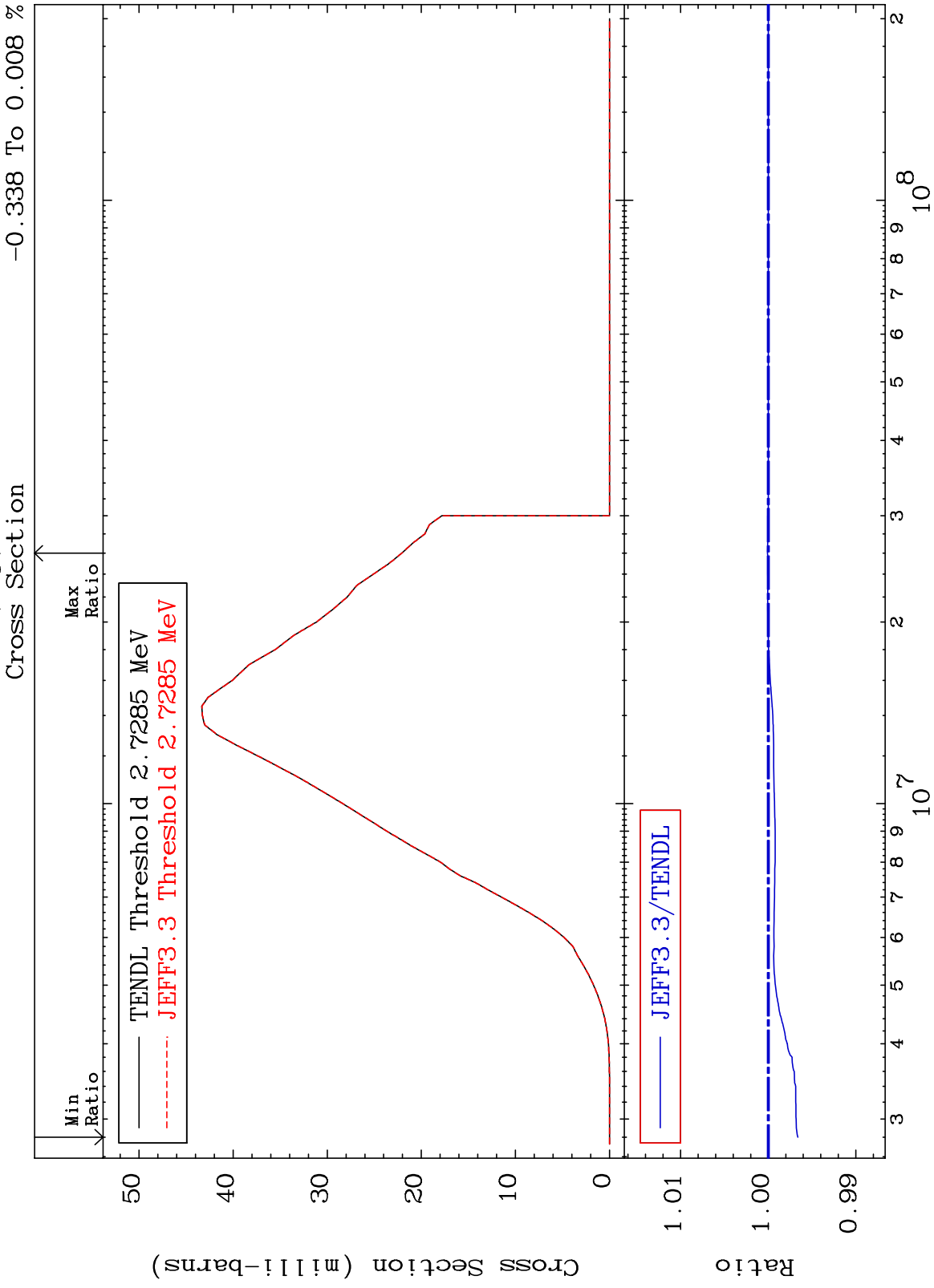
(n,  $\gamma$ )

18-Ar-39

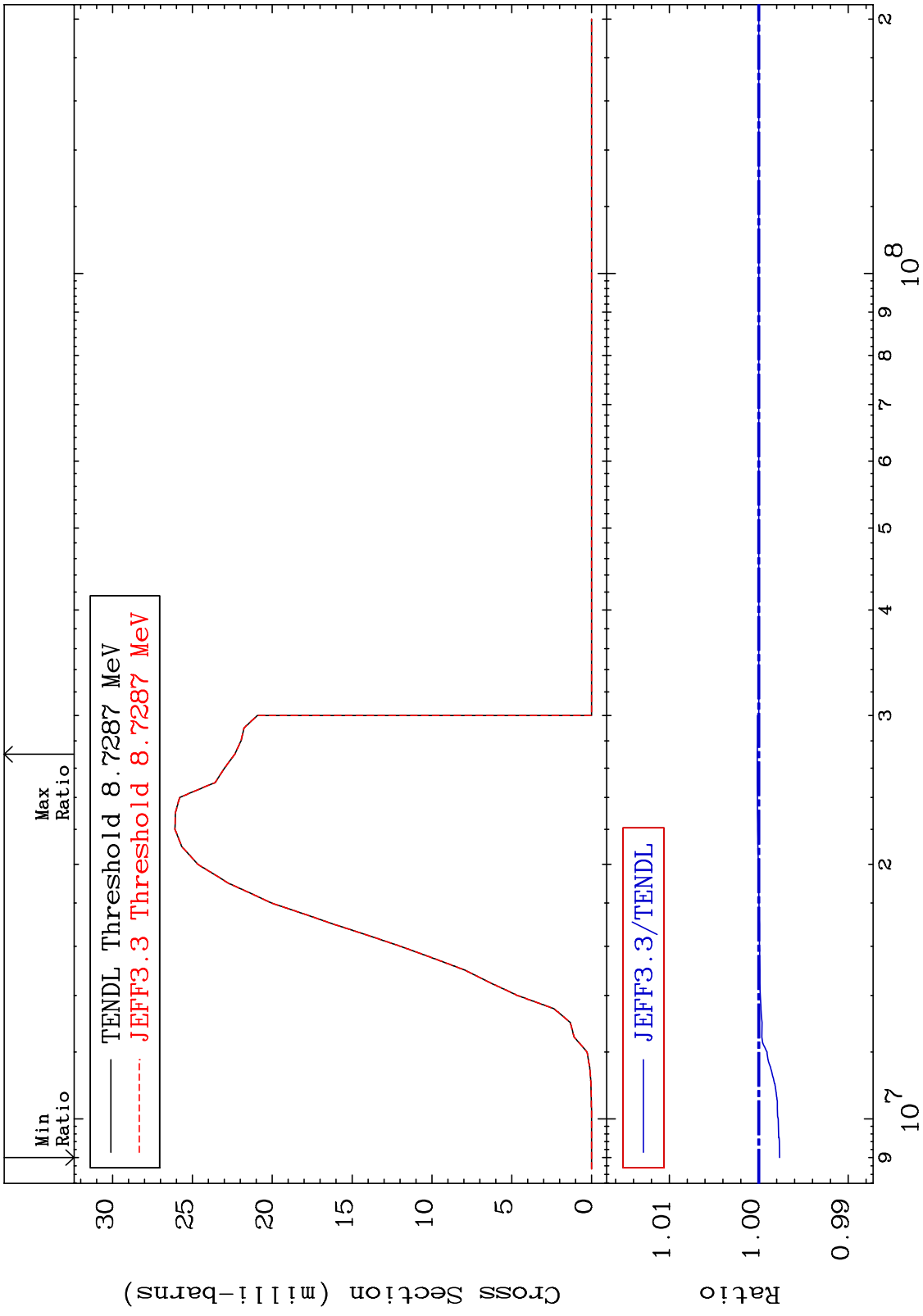
Cross Section

-99.95 To 9999. %

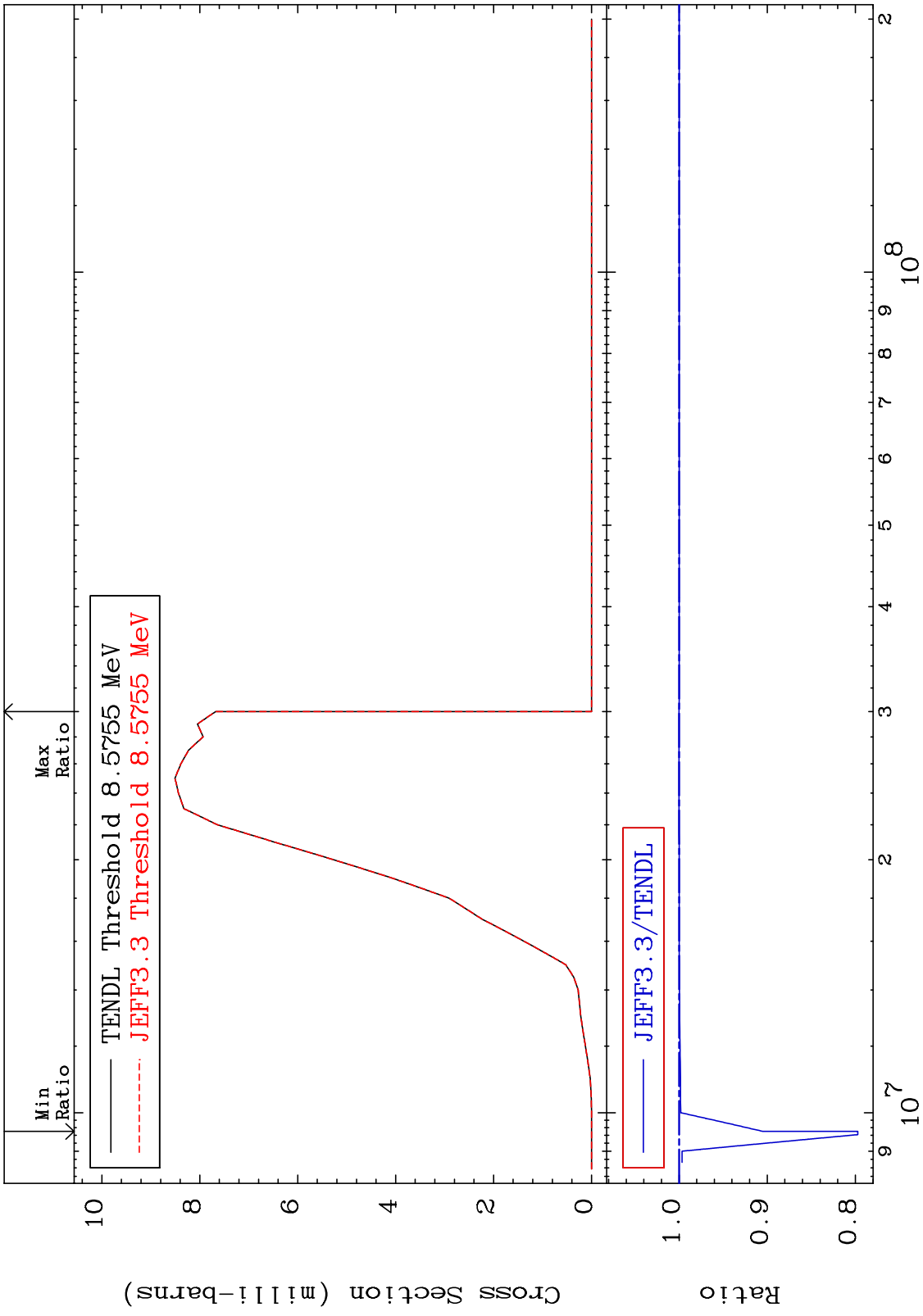




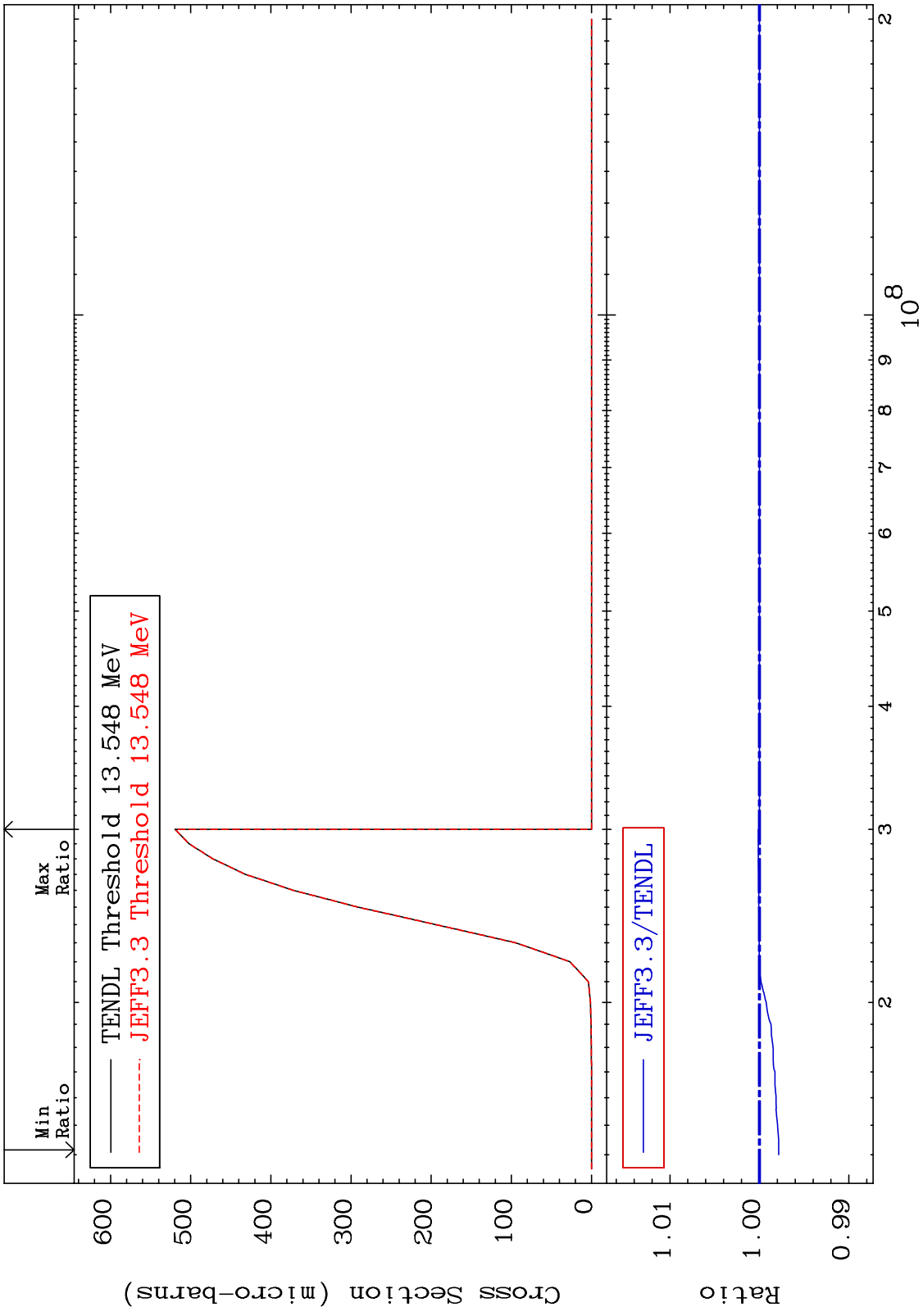
MAT 1834 (n,d) 18-Ar-39  
 Cross Section -0.233 To 0.017 %



54 18-Ar-39







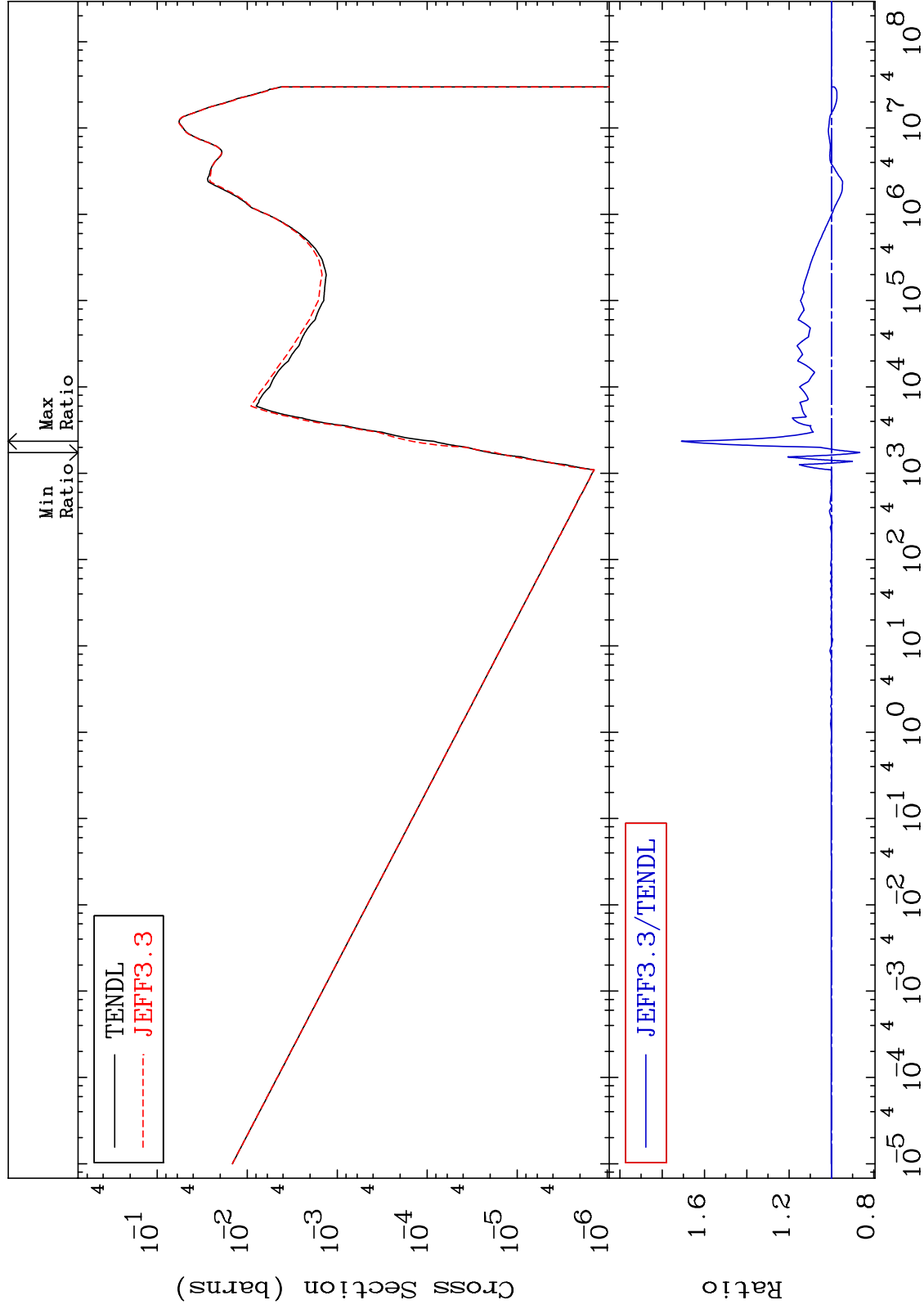
MAT 1834

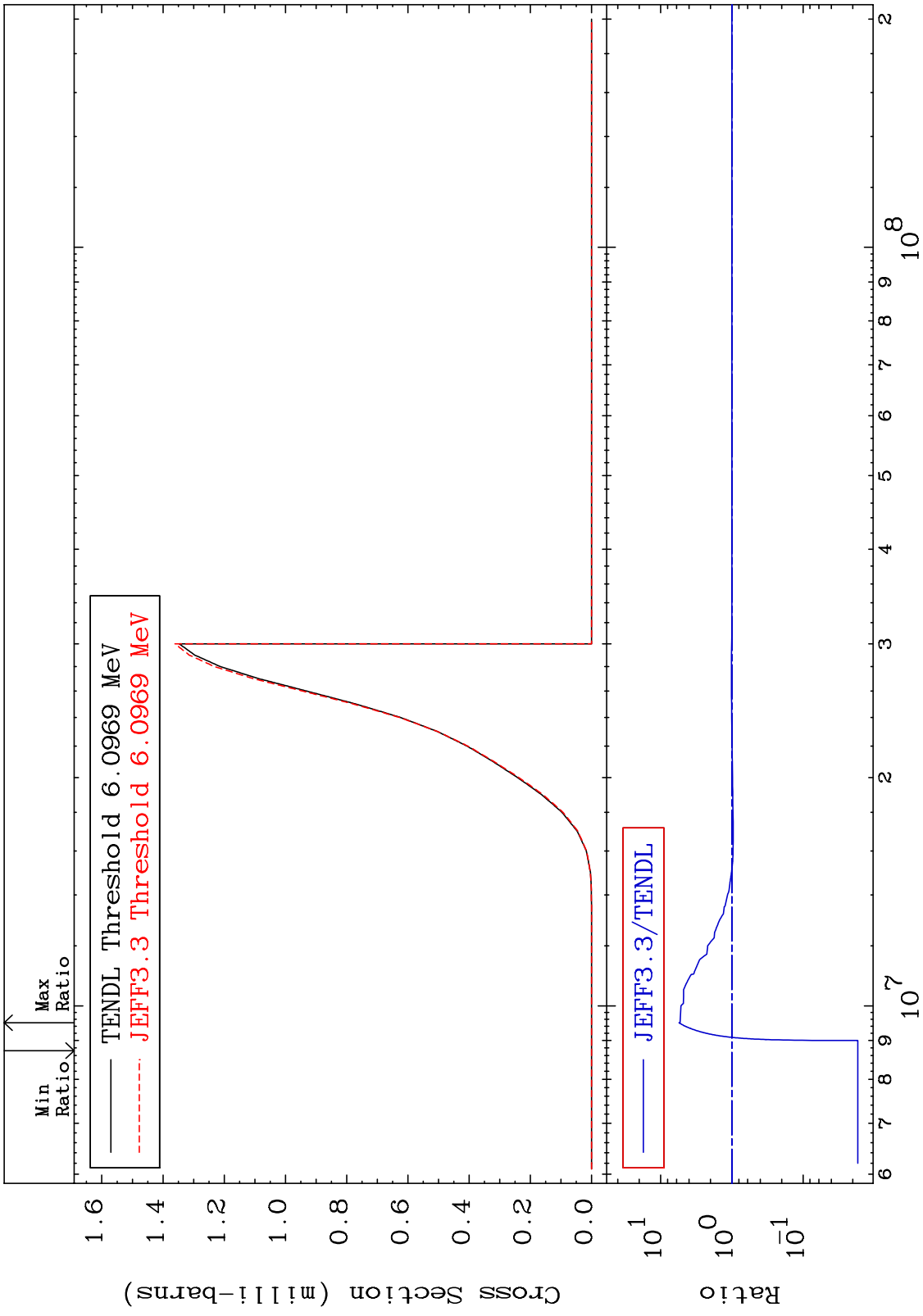
(n,  $\alpha$ )

18-Ar-39

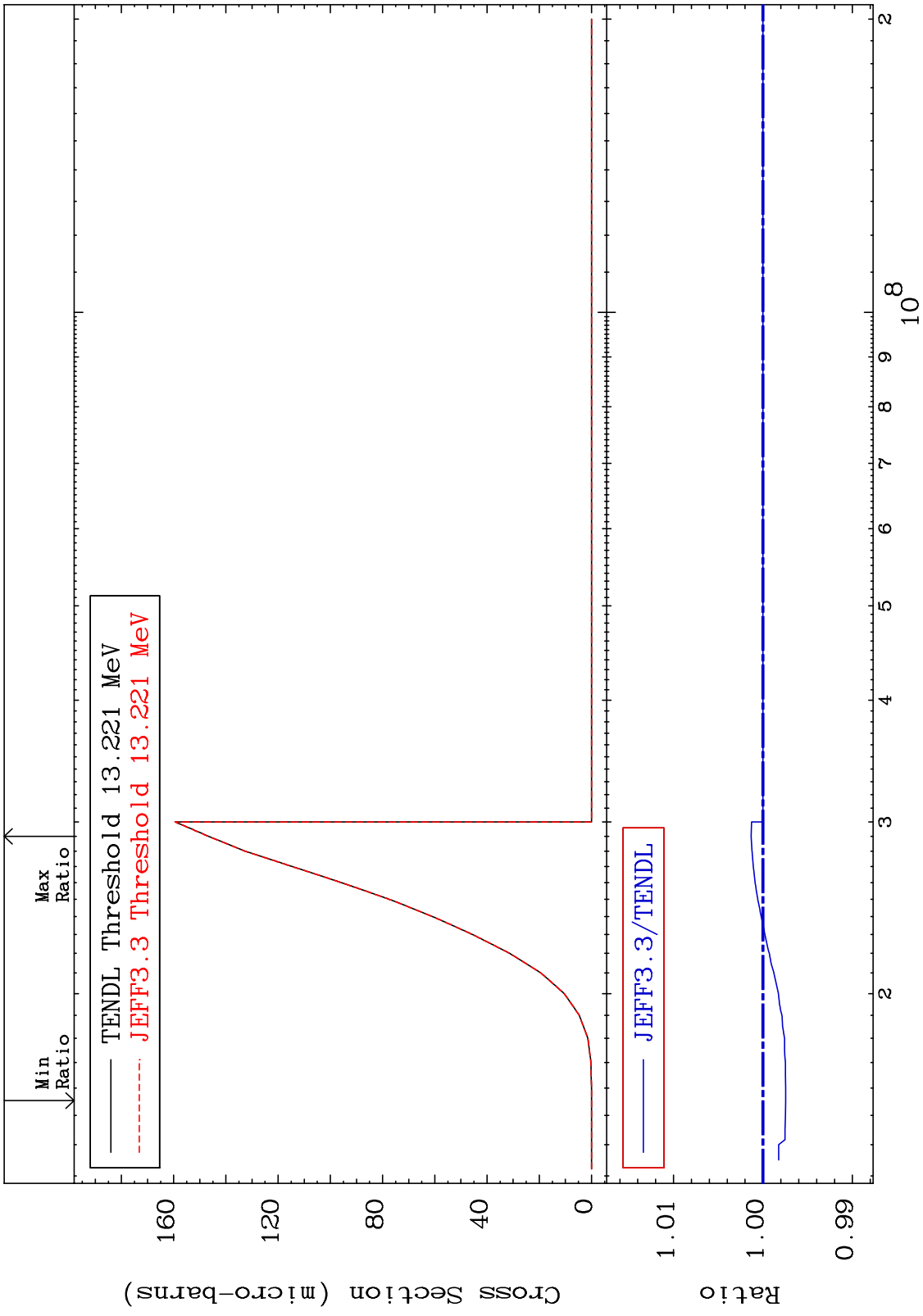
Cross Section

-13.43 To 70.93 %

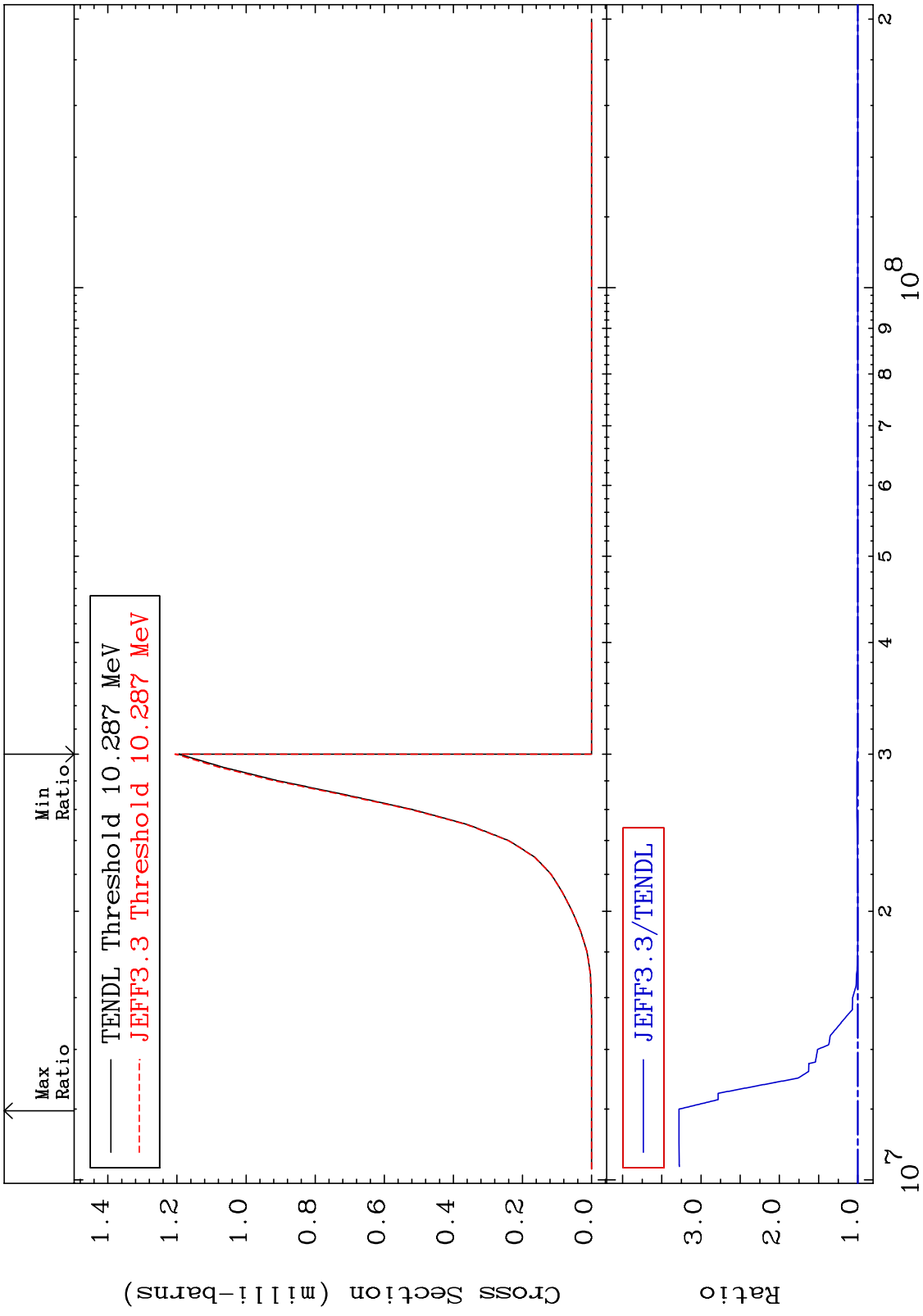




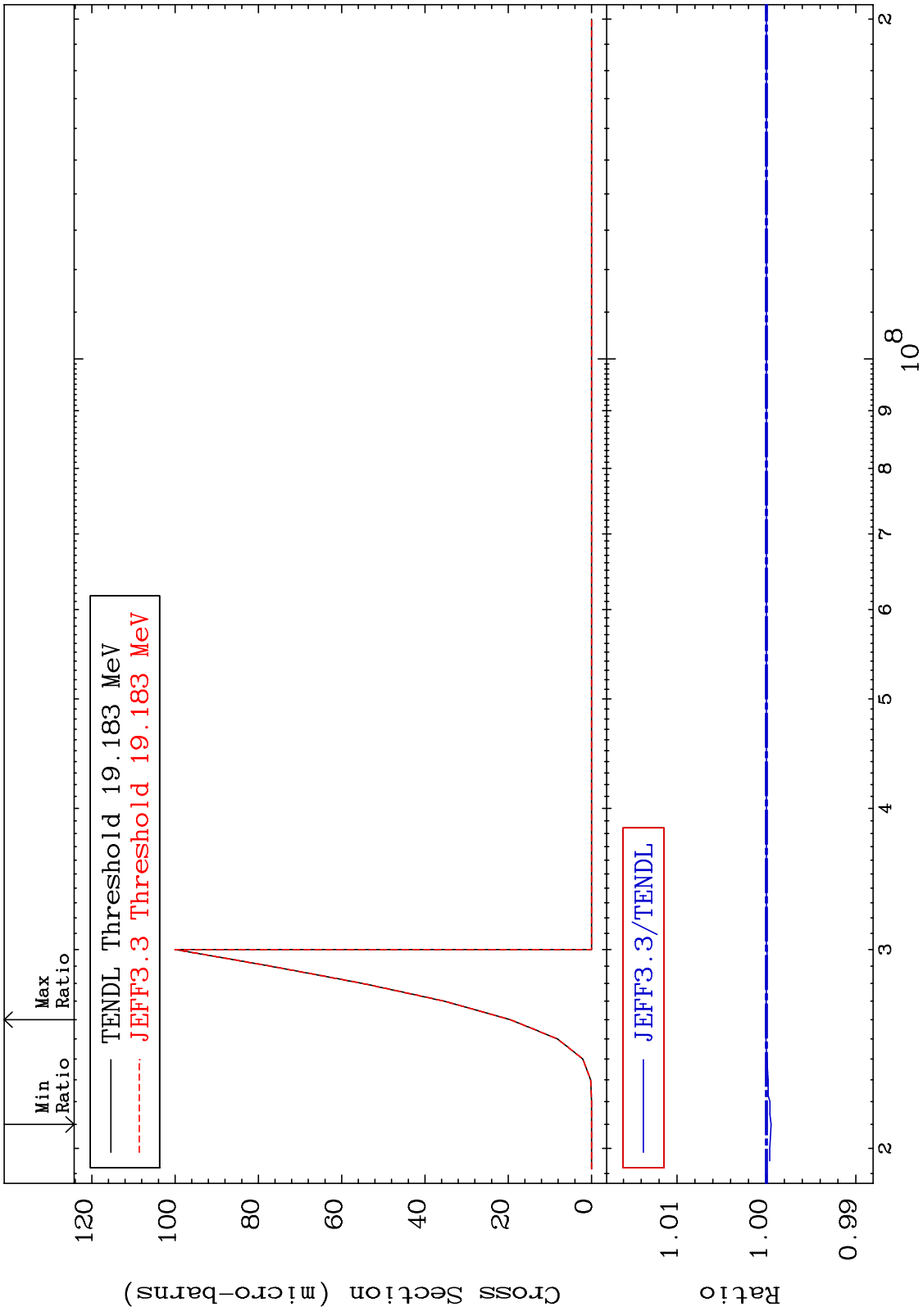
MAT 1834 (n,2p) Cross Section 18-Ar-39  
 -0.254 To 0.132 %



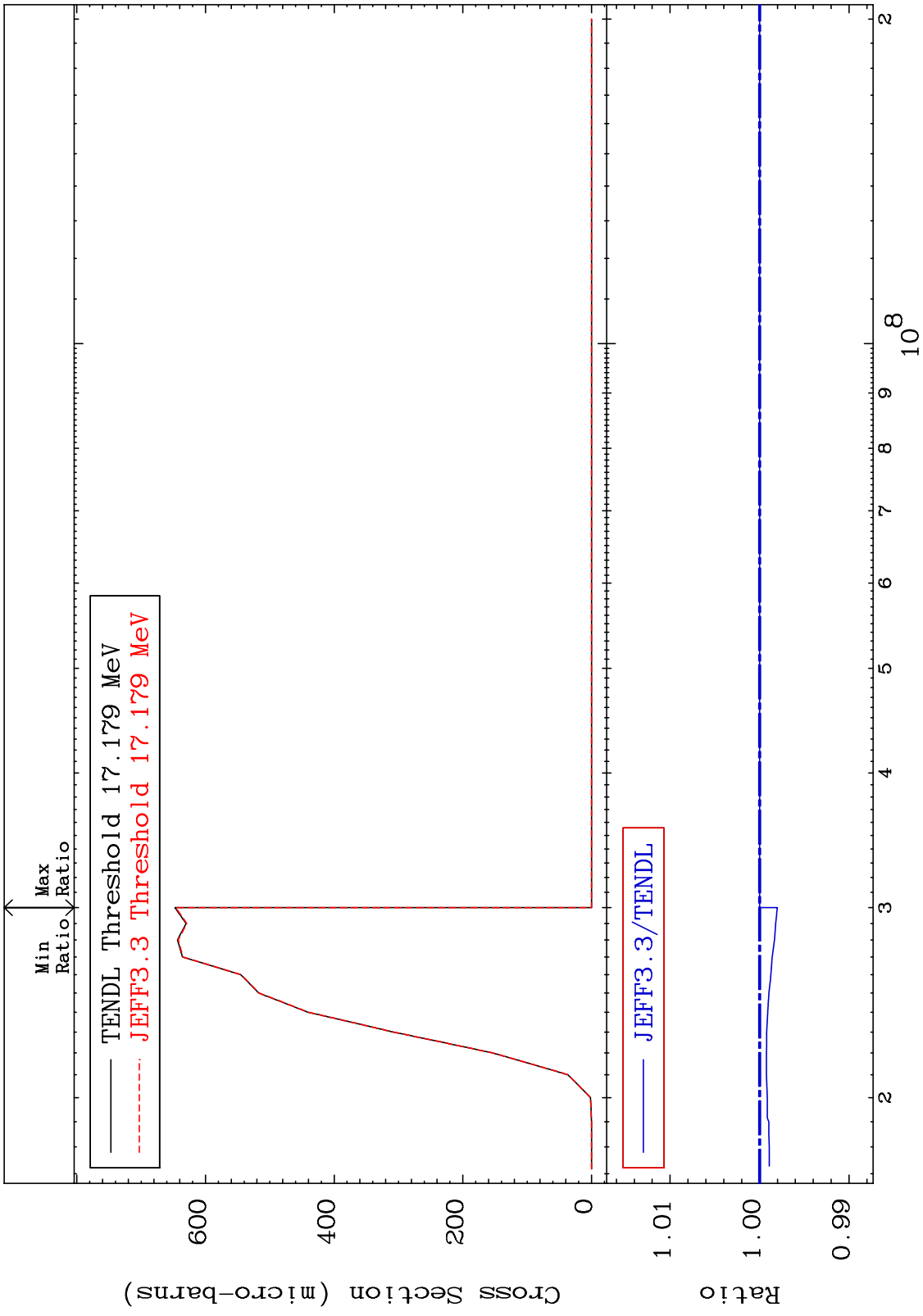
MAT 1834 (n,p)  $\alpha$  18-Ar-39  
Cross Section 0.000 To 228.0 %



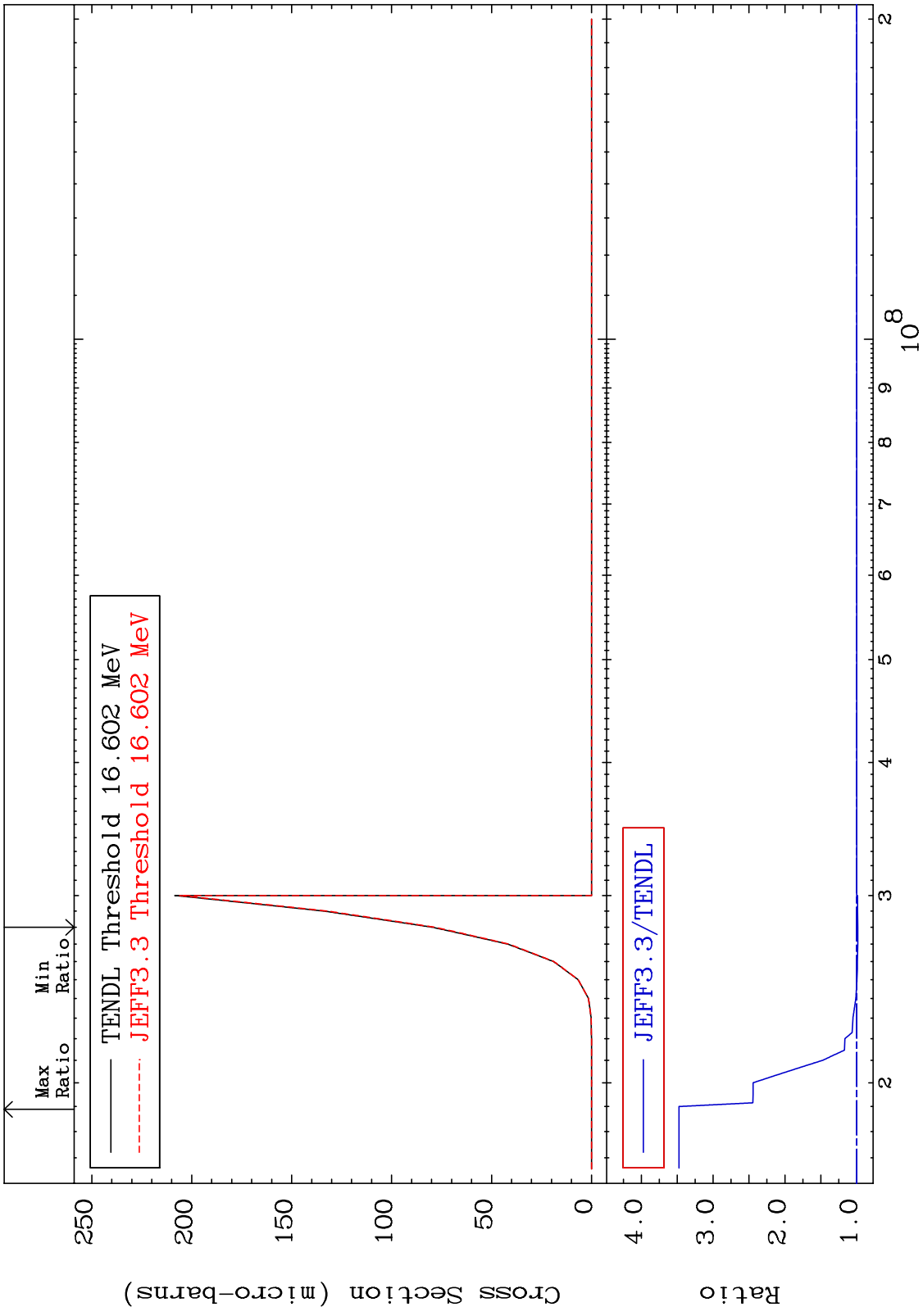
60 18-Ar-39



MAT 1834 (n,p) t 18-Ar-39  
 Cross Section -0.198 To 0.000 %



MAT 1834 (n,d)  $\alpha$  18-Ar-39  
 Cross Section -1.584 To 247.5 %

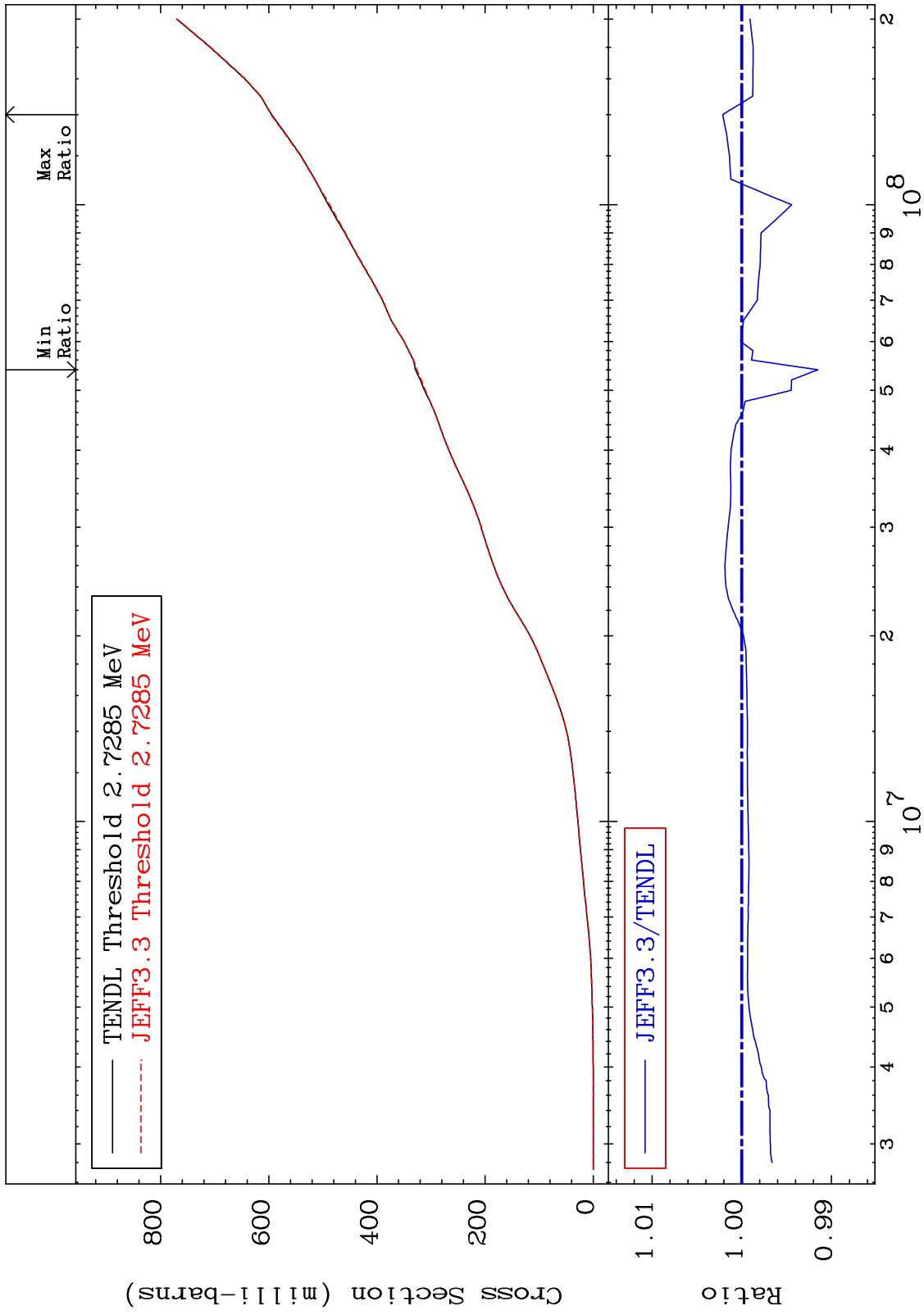




MAT 1834

### Hydrogen Production Cross Section

18-Ar-39  
-0.847 To 0.214 %



64

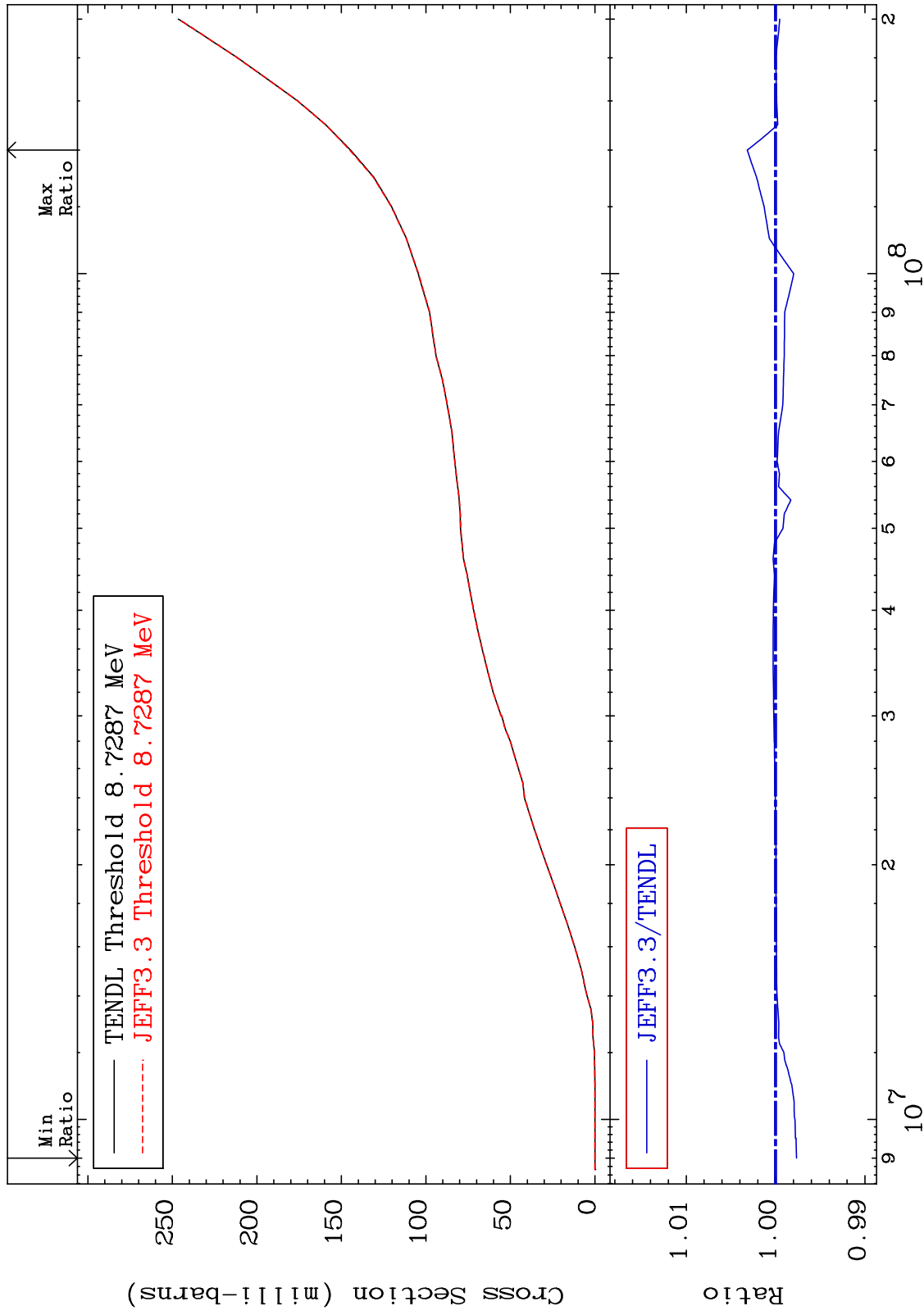
Incident Energy (eV)

18-Ar-39

MAT 1834

Deuterium Production  
Cross Section

18-Ar-39  
-0.233 To 0.317 %



65

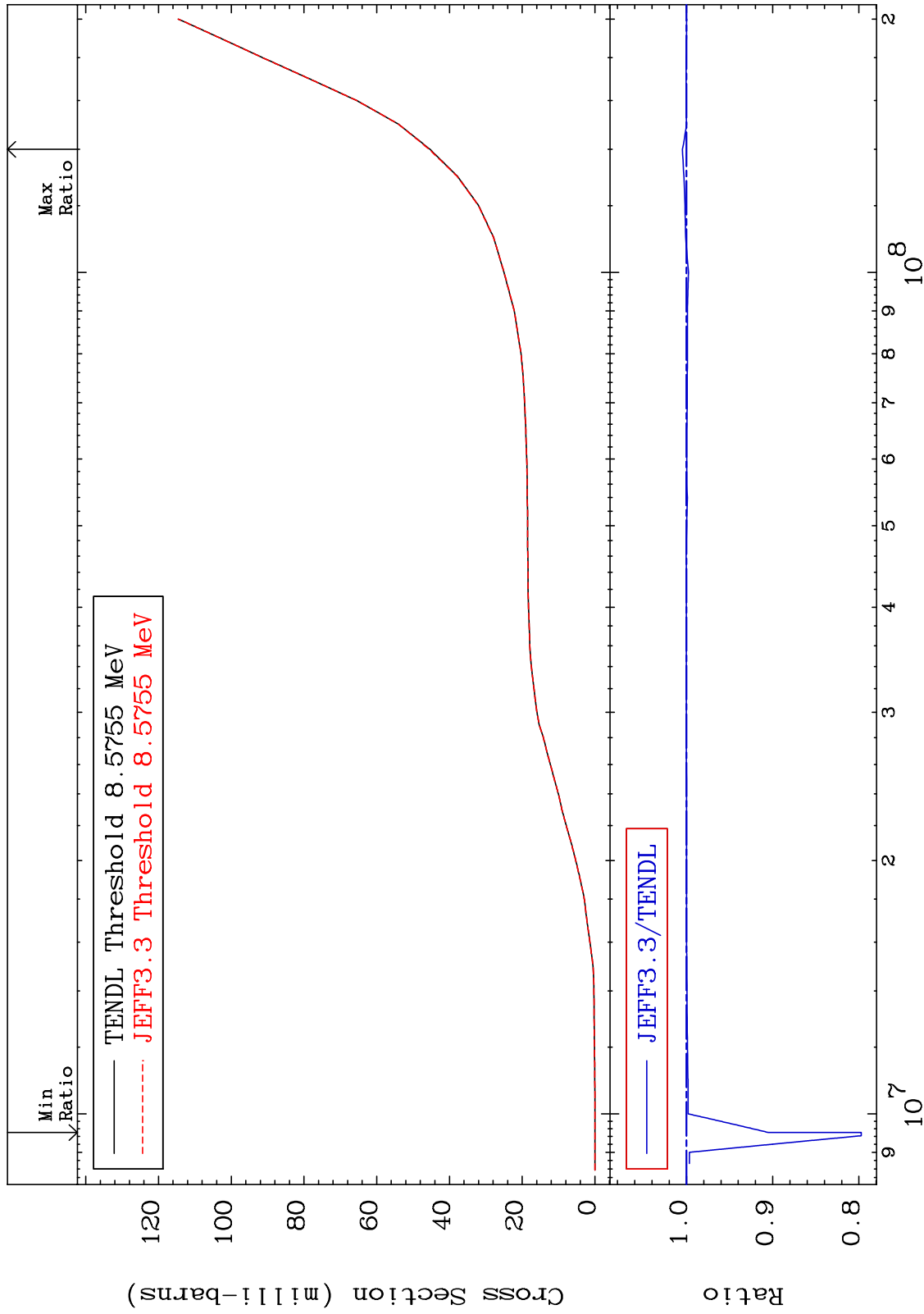
Incident Energy (eV)

18-Ar-39

MAT 1834

Tritium Production  
Cross Section

18-Ar-39  
-20.27 To 0.469 %



66

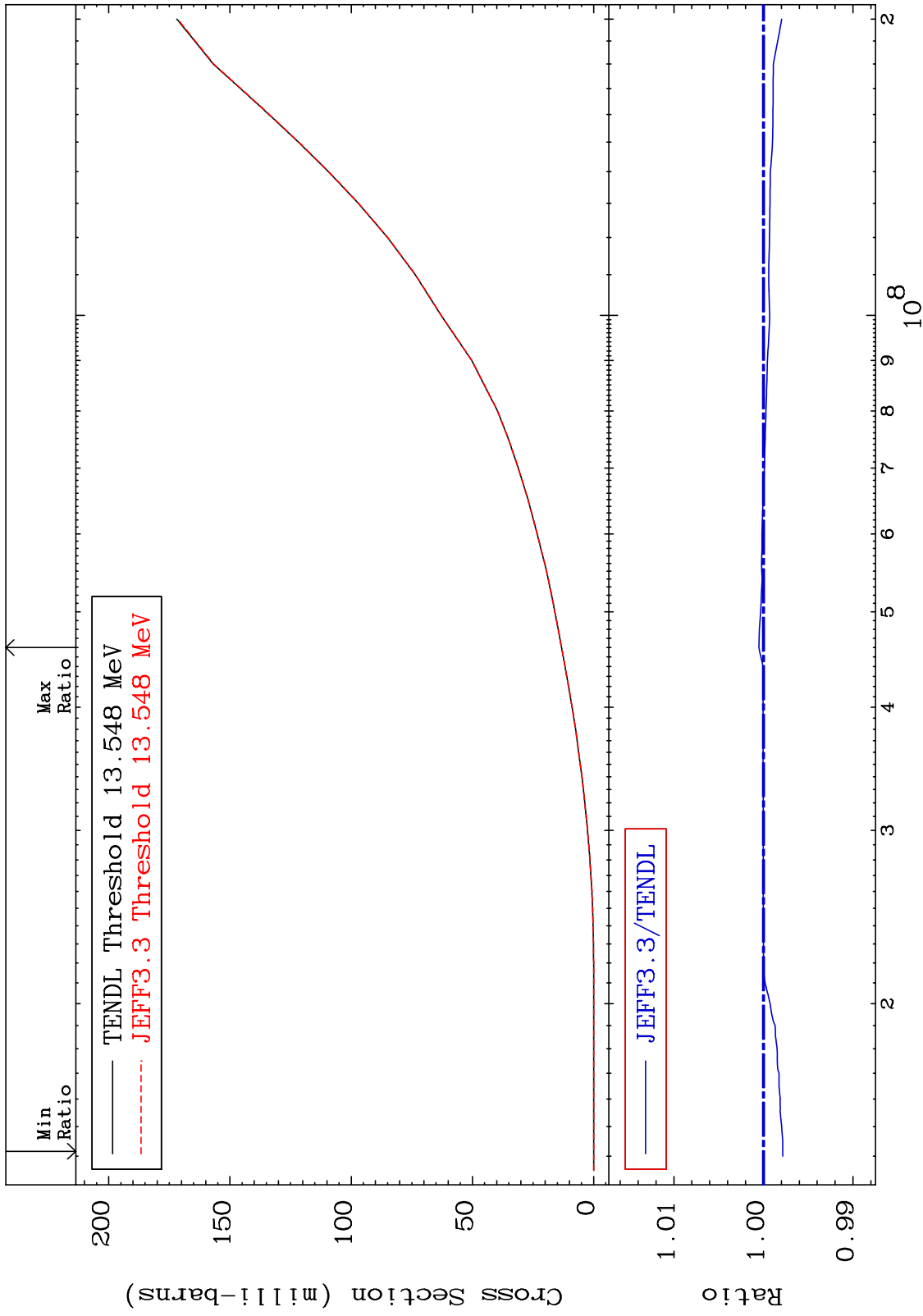
Incident Energy (eV)

18-Ar-39

MAT 1834

He-3 Production  
Cross Section

18-Ar-39  
-0.215 To 0.052 %



67

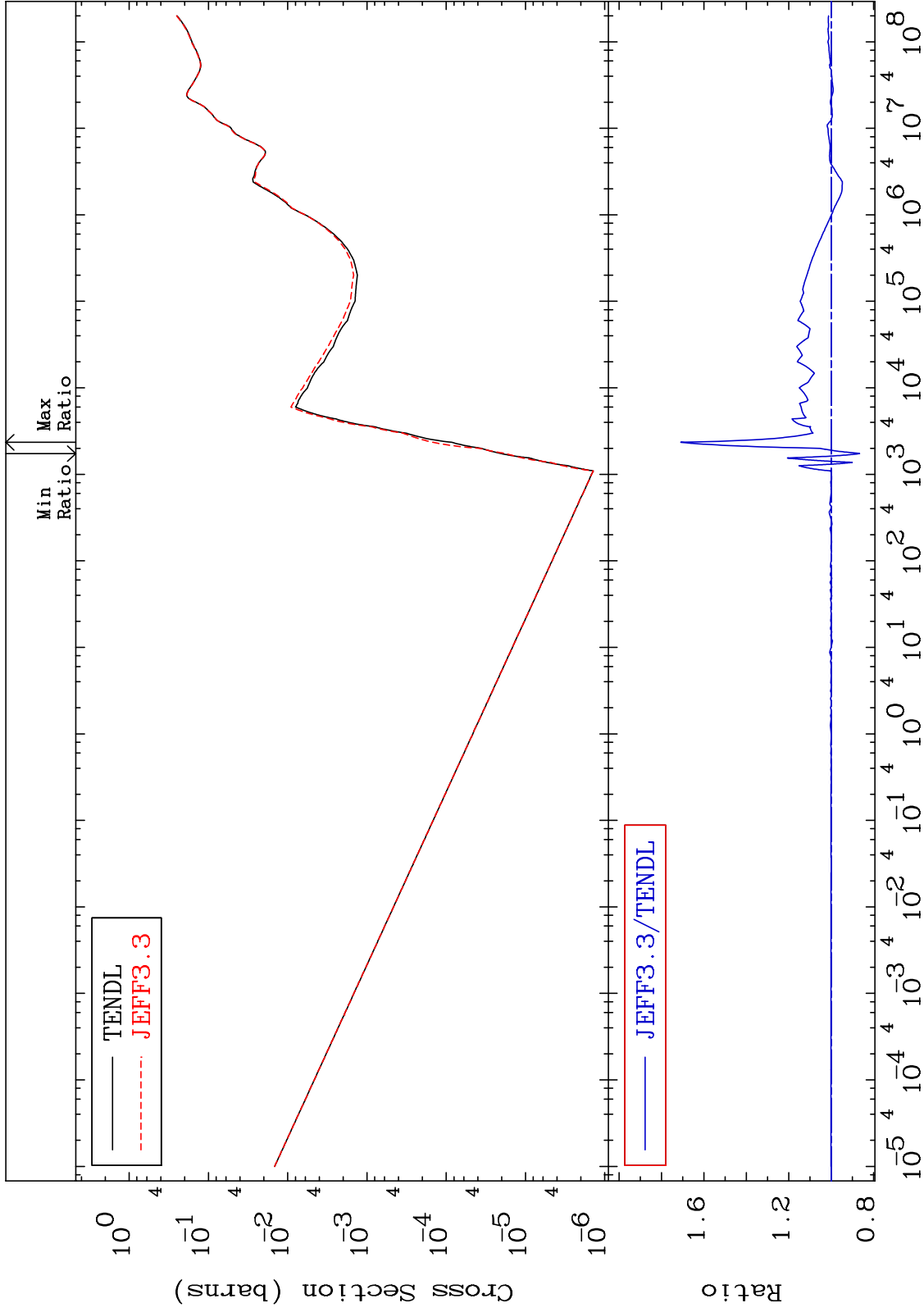
18-Ar-39

18-Ar-39

MAT 1834

He-4 Production  
Cross Section

18-Ar-39  
-13.43 To 70.93 %



68

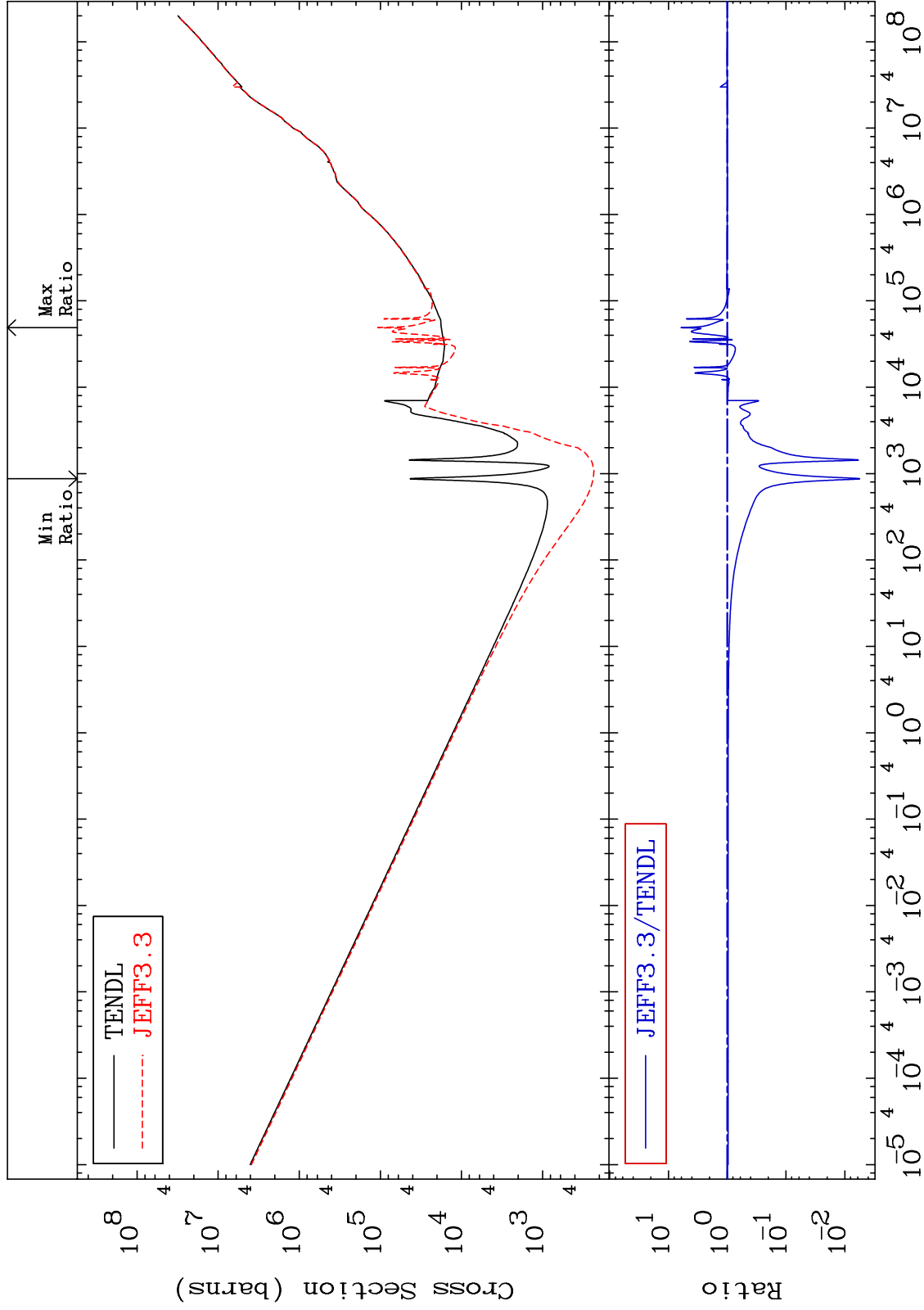
Incident Energy (eV)

18-Ar-39

MAT 1834

Kerma total (eV-barns)  
Cross Section

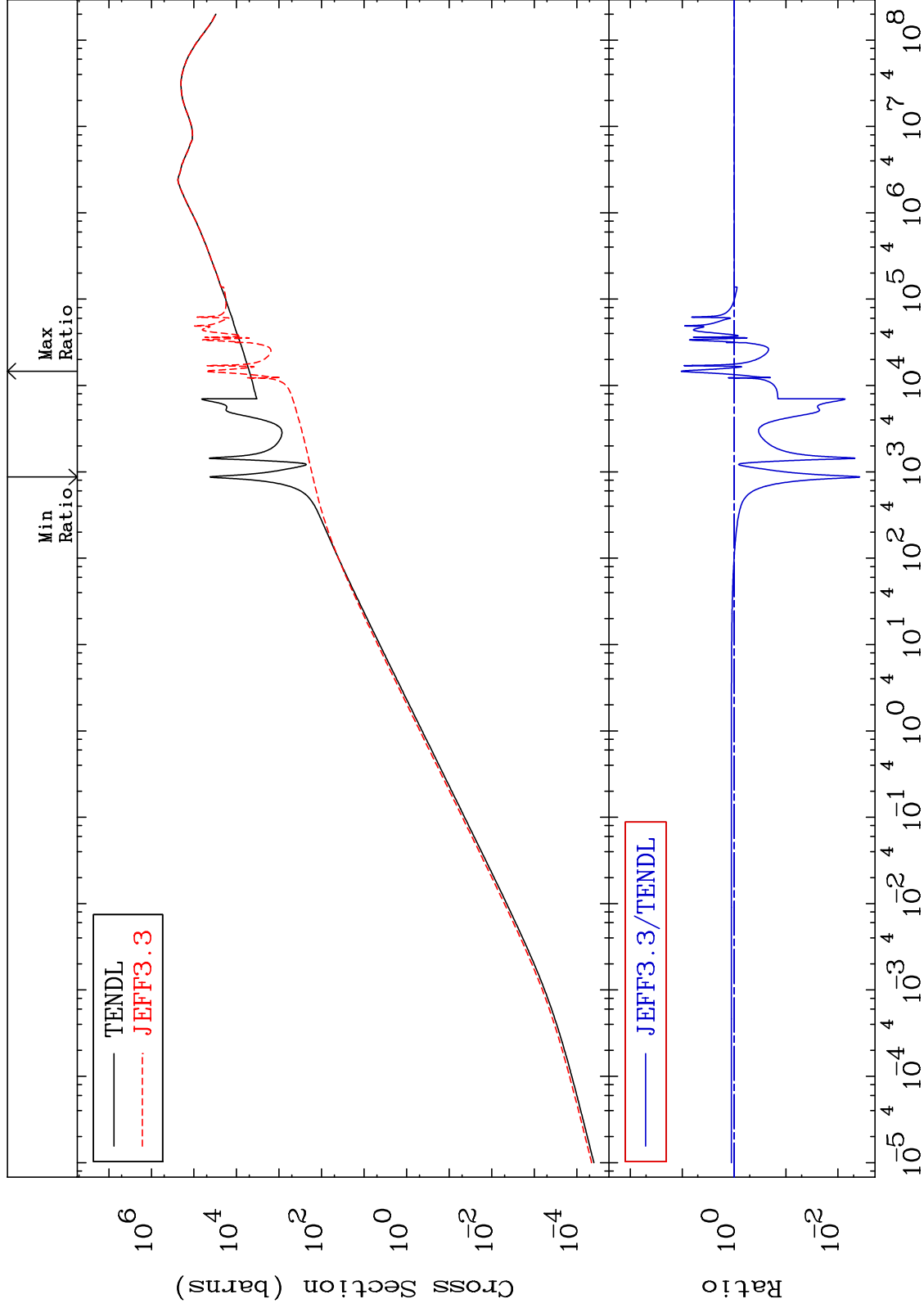
18-Ar-39  
-99.44 To 506.1 %



MAT 1834

Kerma elastic  
Cross Section

18-Ar-39  
-99.62 To 945.8 %



70

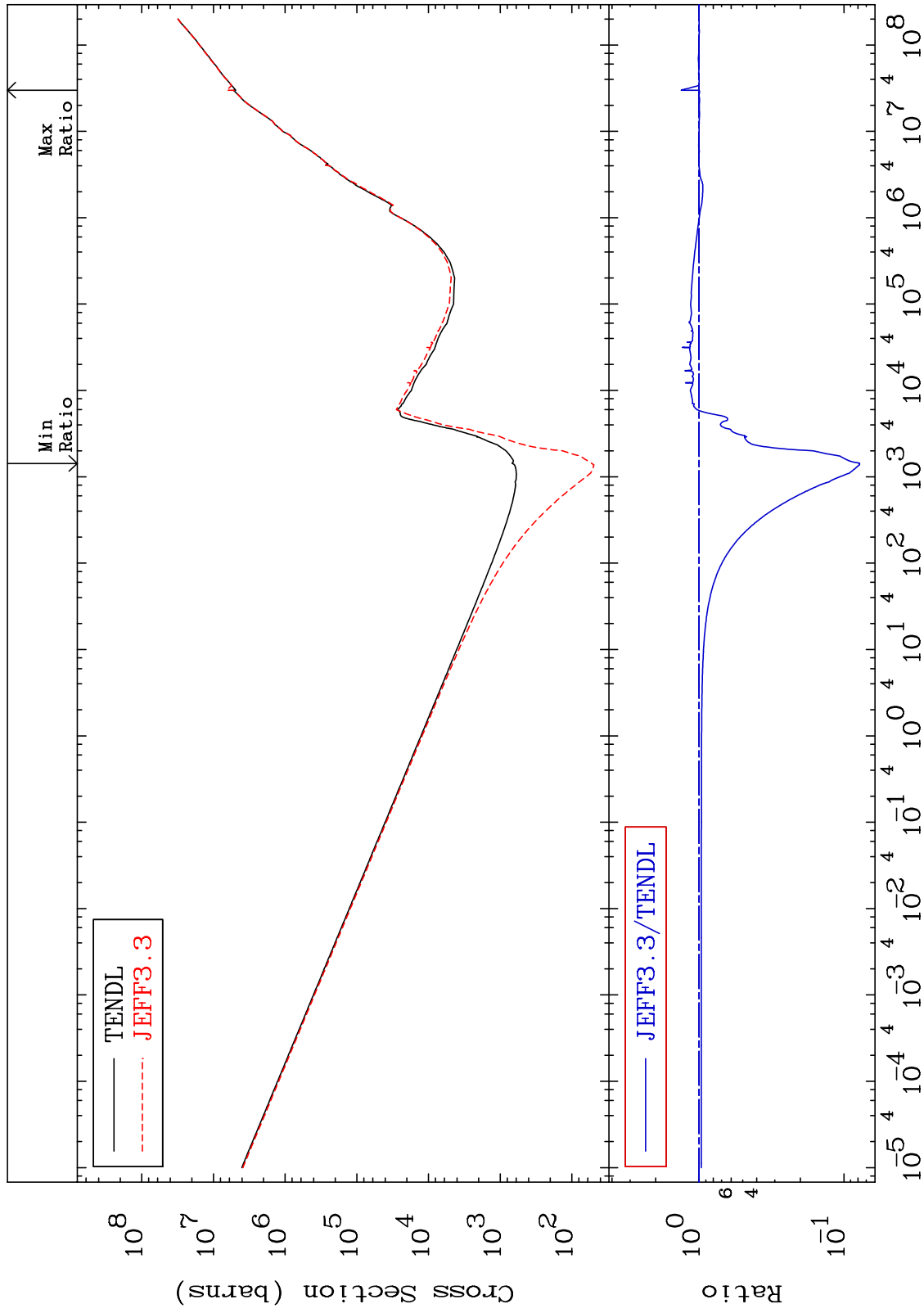
Incident Energy (eV)

18-Ar-39

MAT 1834

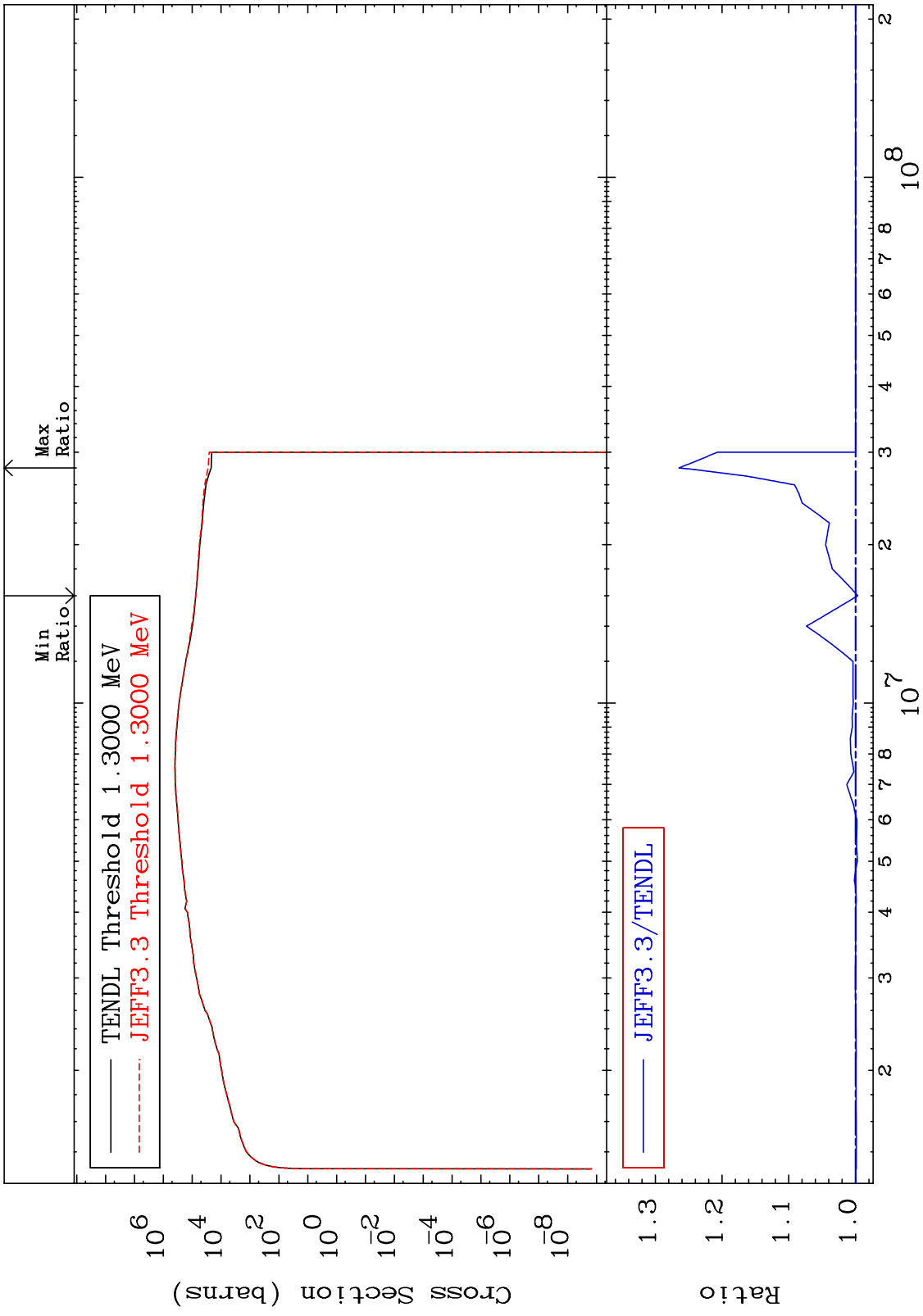
Kerma non-elastic (all but mt2)  
Cross Section

18-Ar-39  
-92.23 To 32.91 %





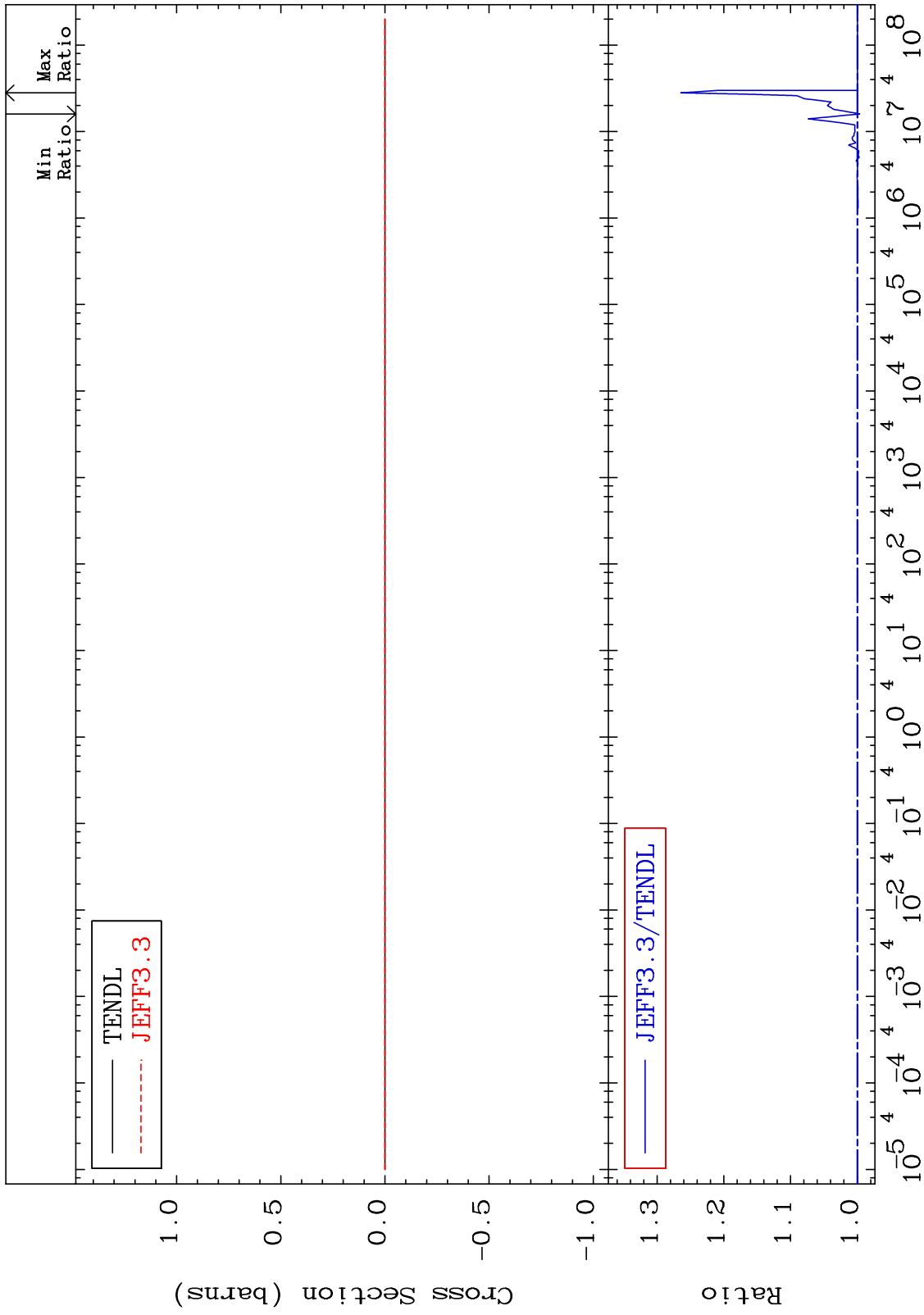
MAT 1834      Kerma inelastic (mt51-91)      18-Ar-39  
 -0.350 To 26.44 %



MAT 1834

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

18-Ar-39  
-0.350 To 26.44 %



73

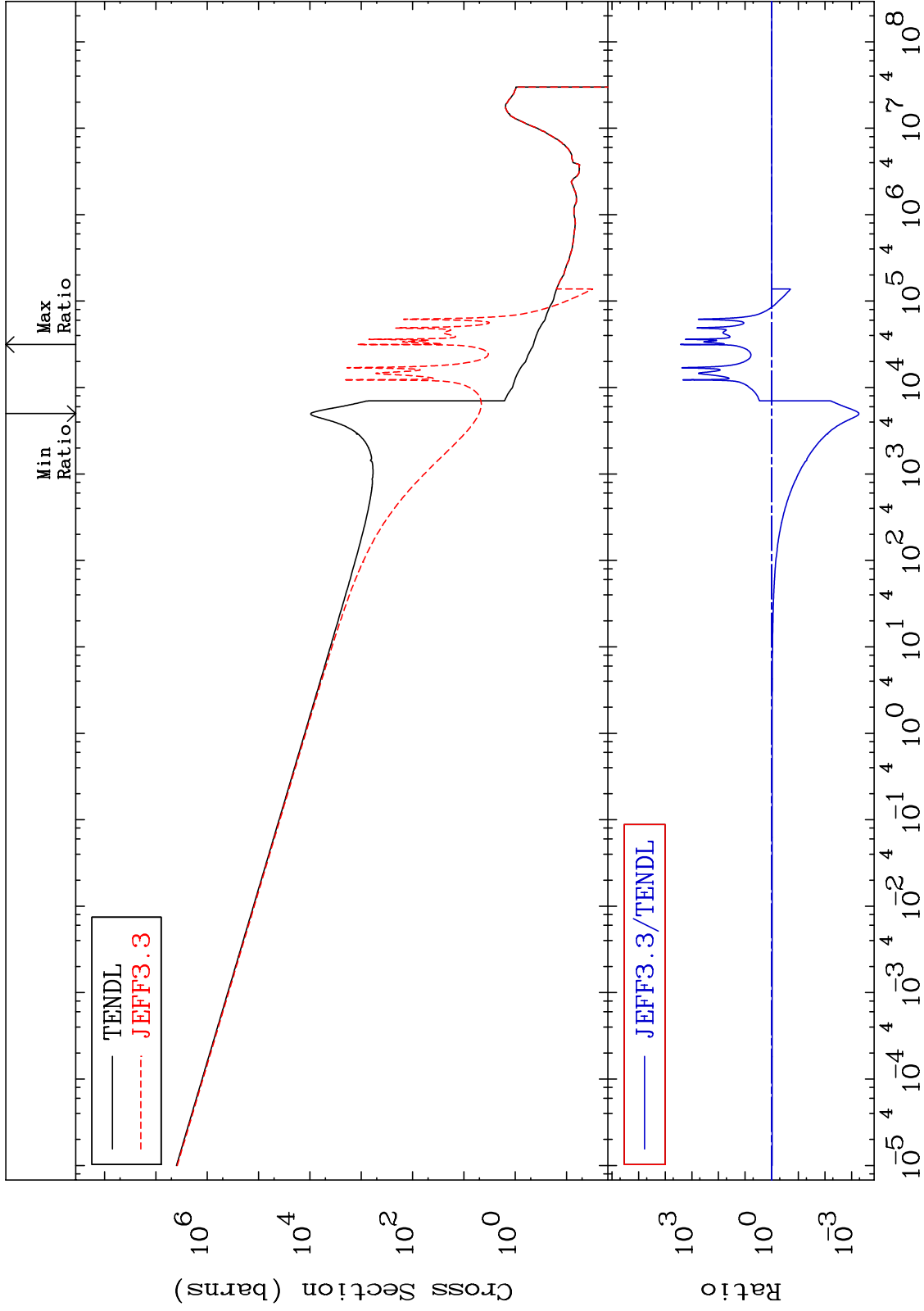
Incident Energy (eV)

18-Ar-39

MAT 1834

Kerma capture (mt102)  
Cross Section

18-Ar-39  
-99.95 To 9999. %



74

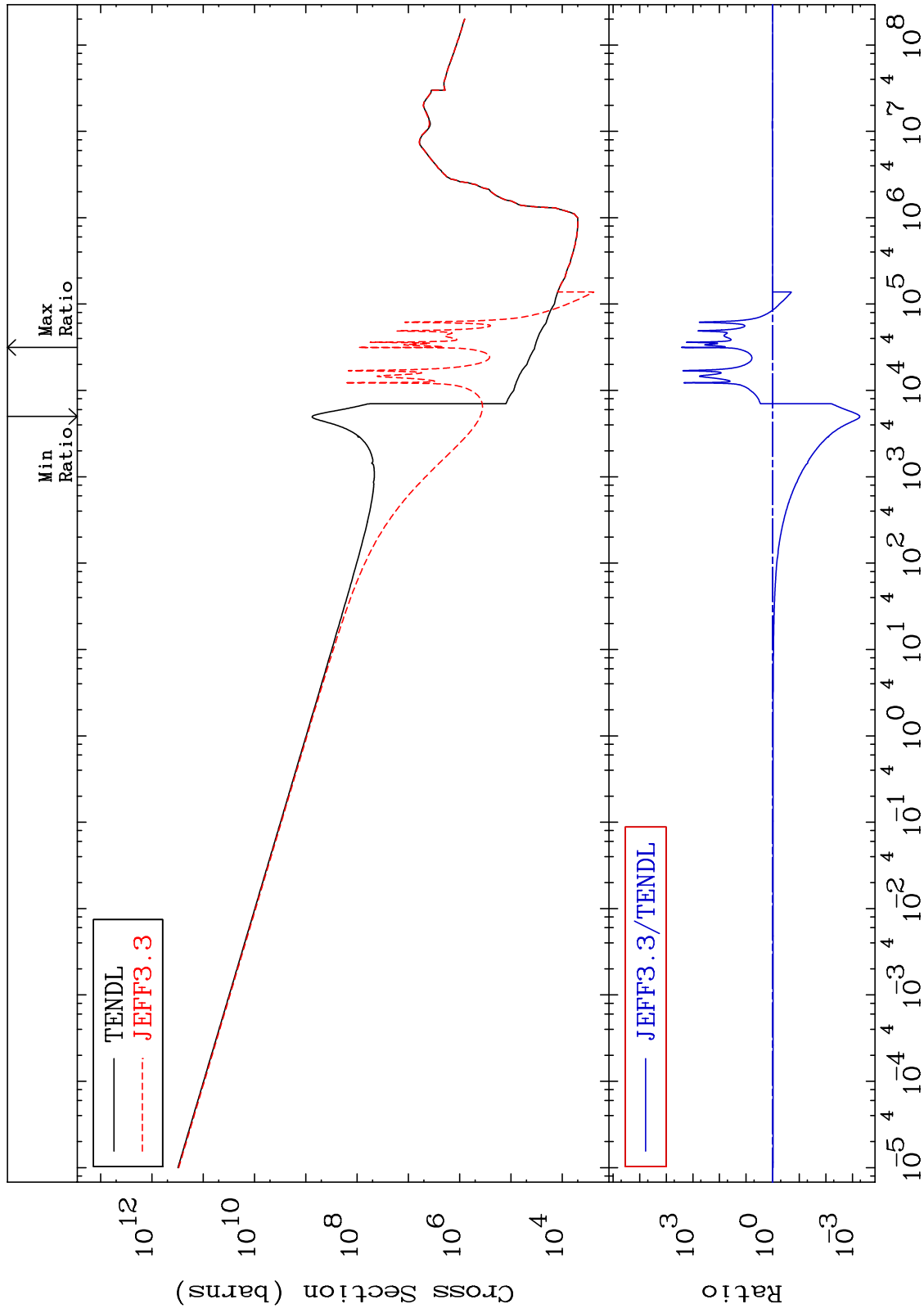
Incident Energy (eV)

18-Ar-39

MAT 1834

Total photon (eV-barns)  
Cross Section

18-Ar-39  
-99.95 To 9999. %



75

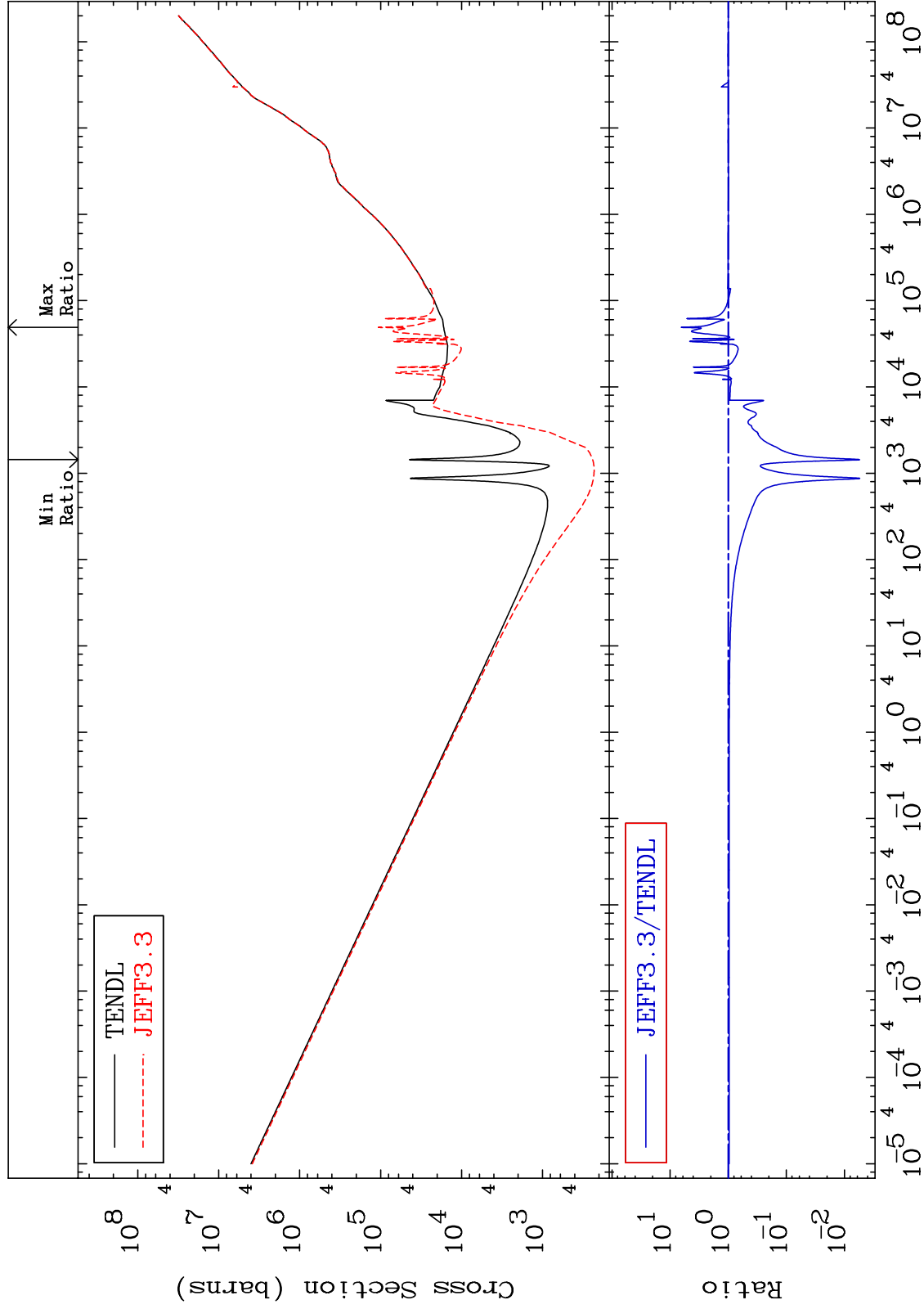
Incident Energy (eV)

18-Ar-39

MAT 1834

Total kinematic kerma (high limit)  
Cross Section

18-Ar-39  
-99.45 To 537.5 %



76

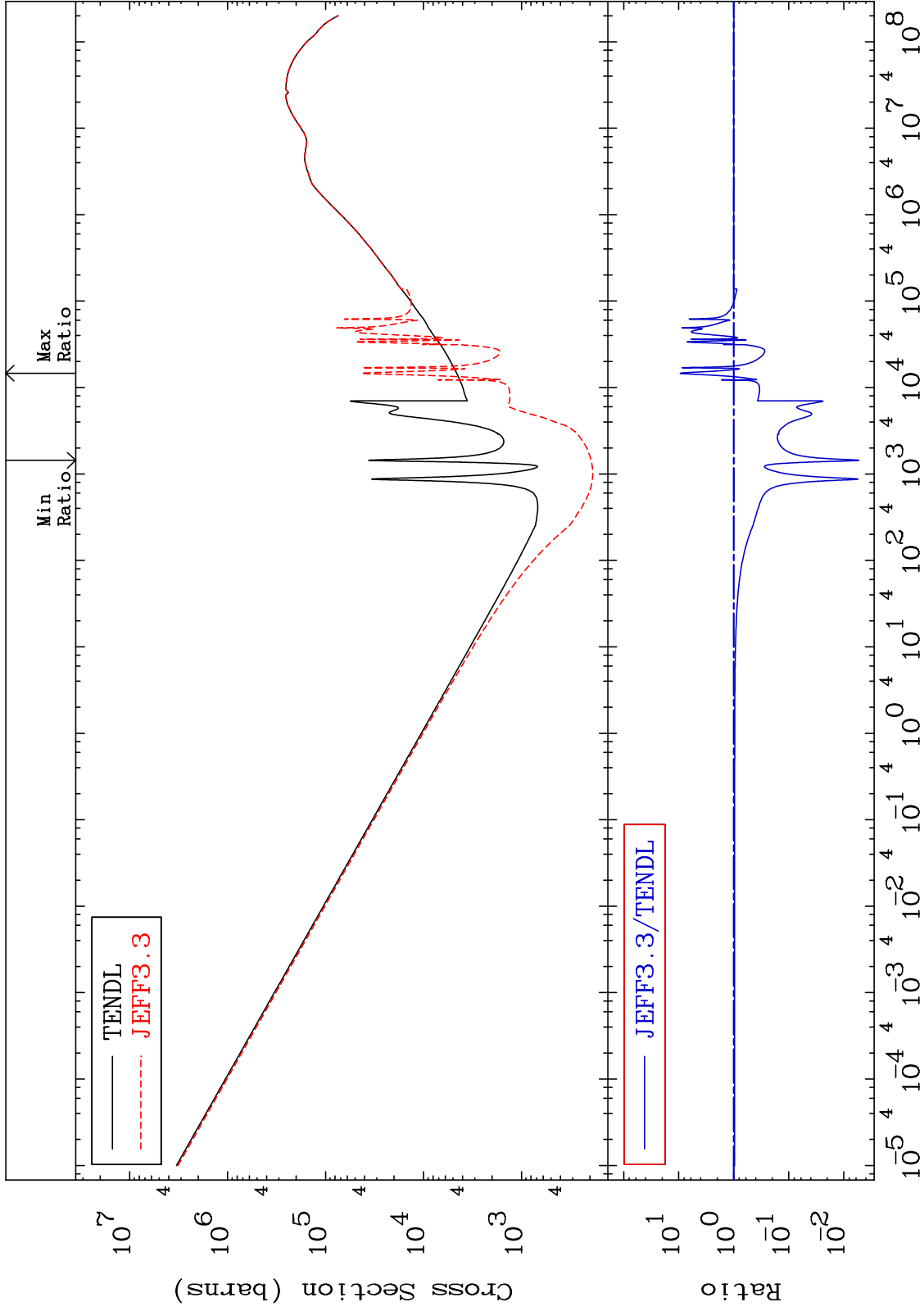
Incident Energy (eV)

18-Ar-39

MAT 1834

Dpa total (eV-barns)  
Cross Section

18-Ar-39  
-99.47 To 839.4 %



77

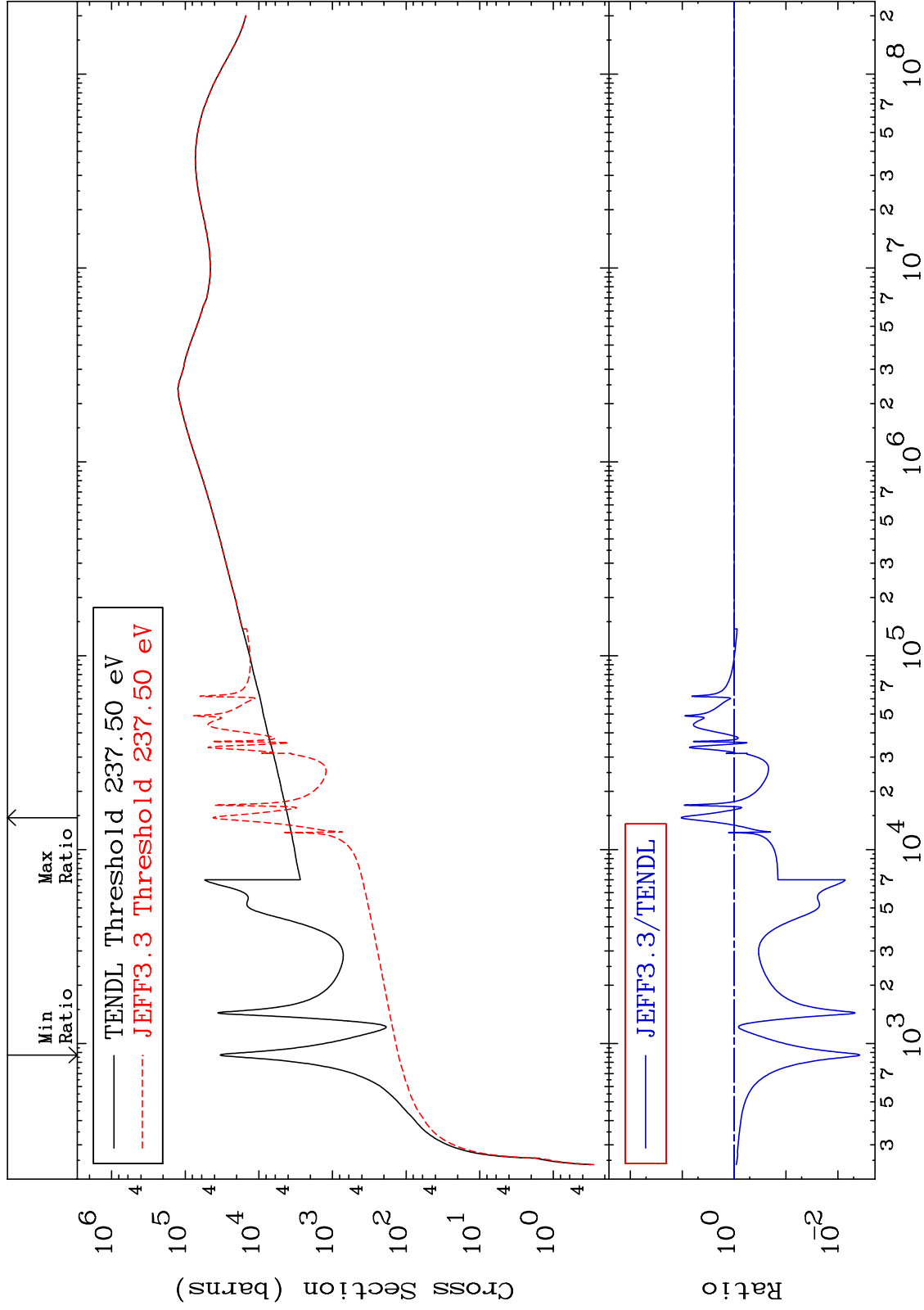
Incident Energy (eV)

18-Ar-39

MAT 1834

Dpa elastic (mt2)  
Cross Section

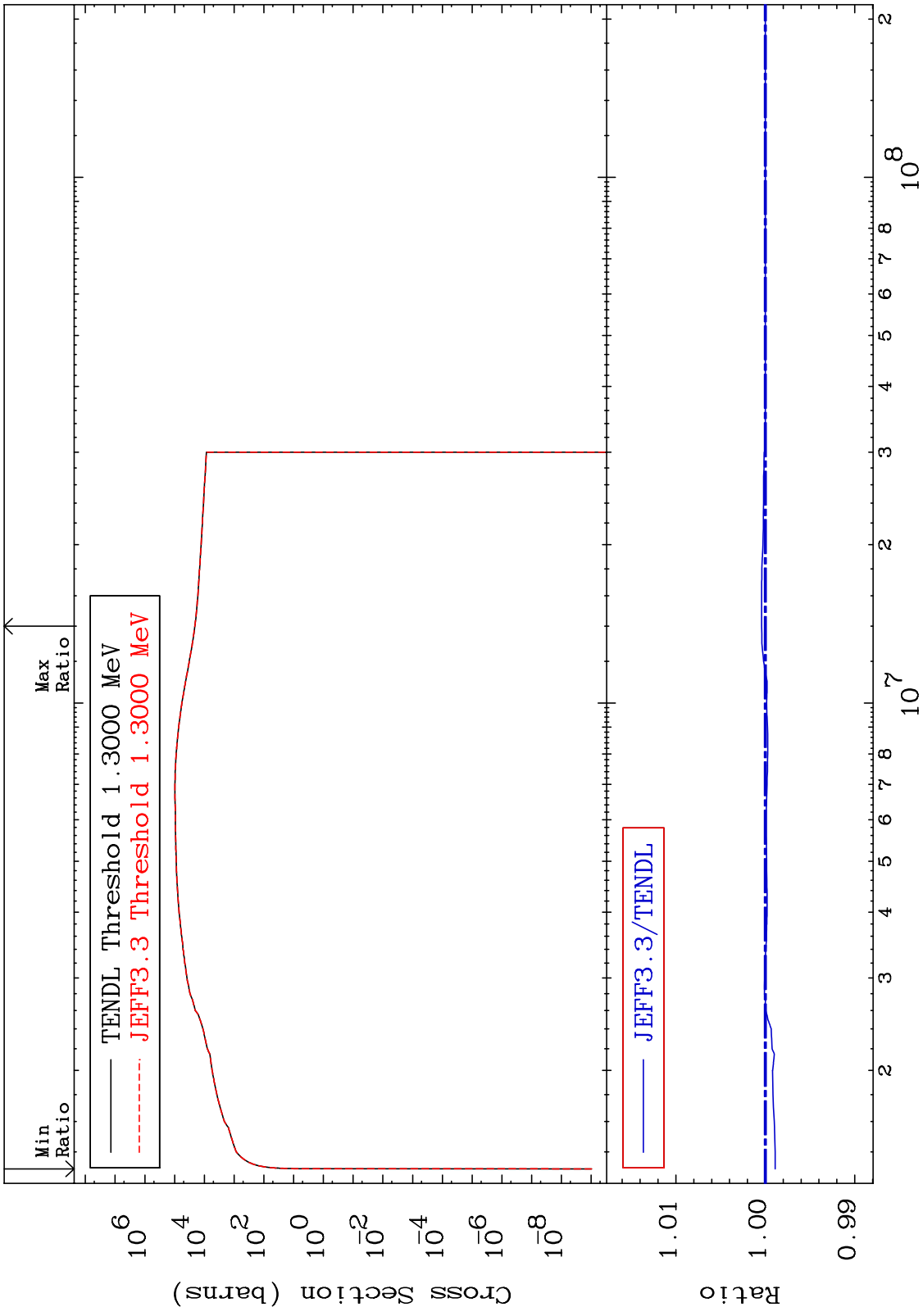
18-Ar-39  
-99.62 To 946.7 %



78

18-Ar-39

MAT 1834      Dpa inelastic (mt51-91)      18-Ar-39  
 Cross Section      -0.111 To 0.041 %

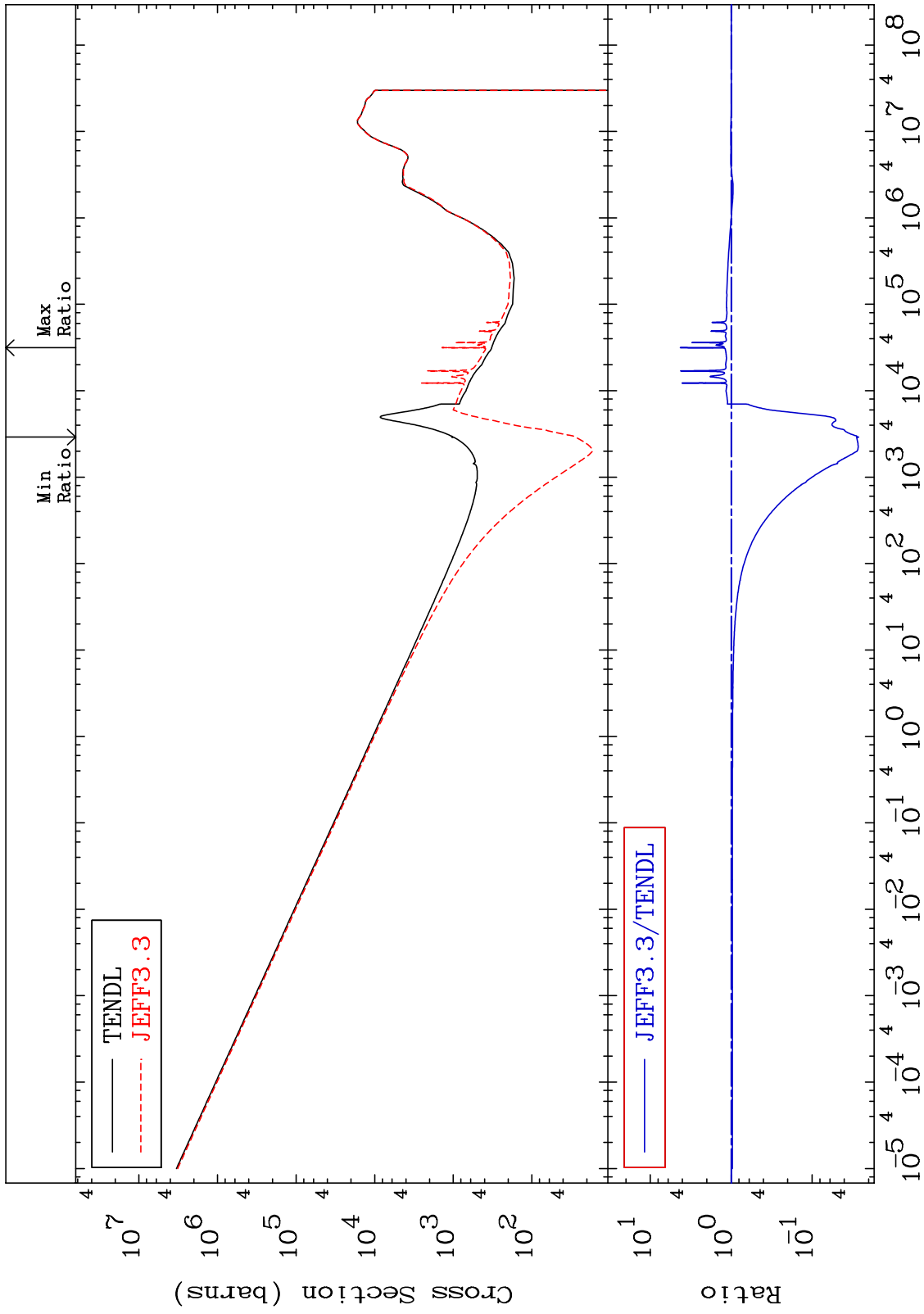


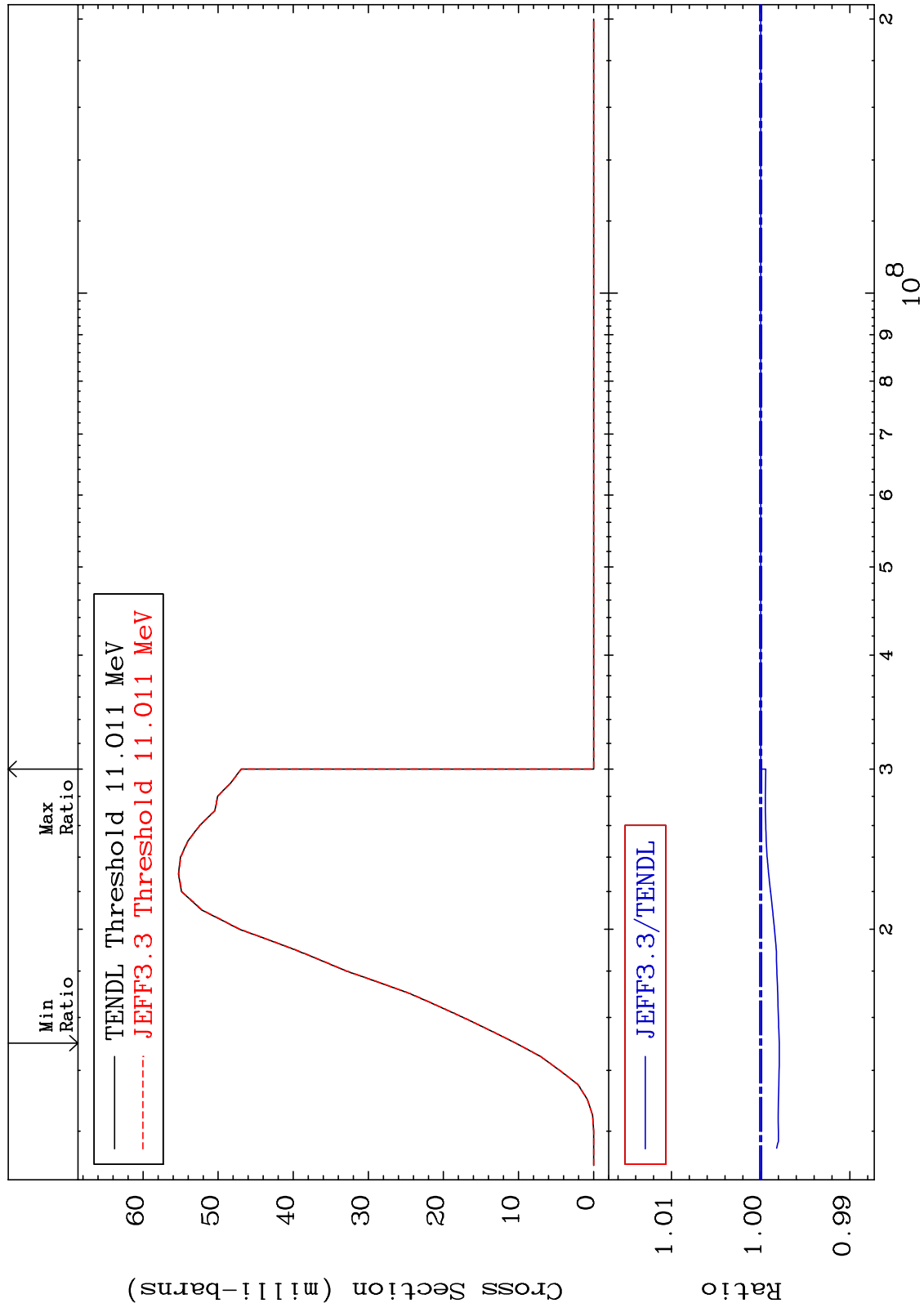


MAT 1834

Dpa disappearance (mt102 -120)  
Cross Section

18-Ar-39  
-97.36 To 326.1 %



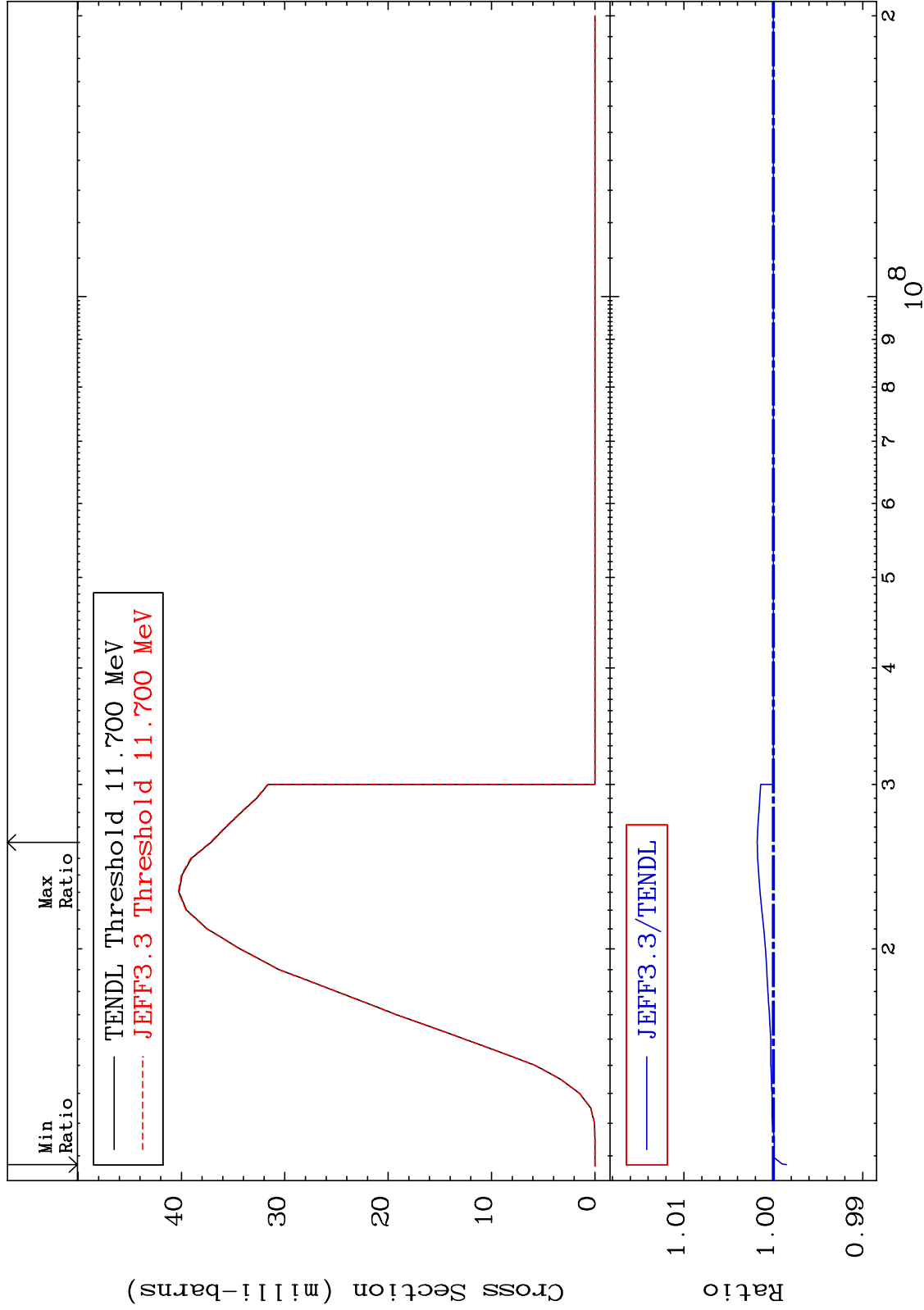


MAT 1834

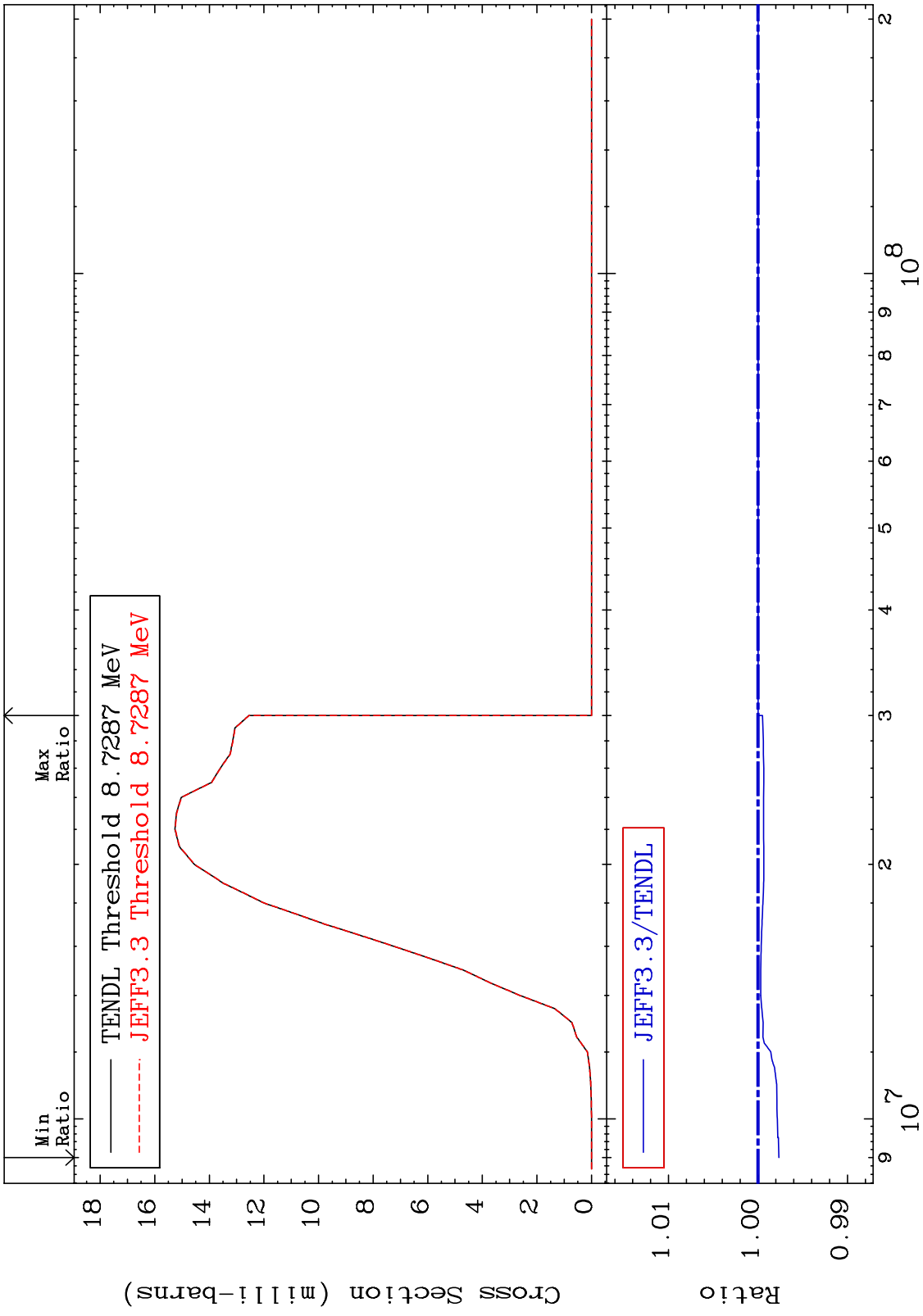
(n, n') p:17-Cl-38m1

18-Ar-39

Radionuclide Production Cross Section -0.147 To 0.180 %



MAT 1834 (n,d):17-Cl-38g 18-Ar-39  
 Radionuclide Production Cross Section -0.233 To 0.000 %

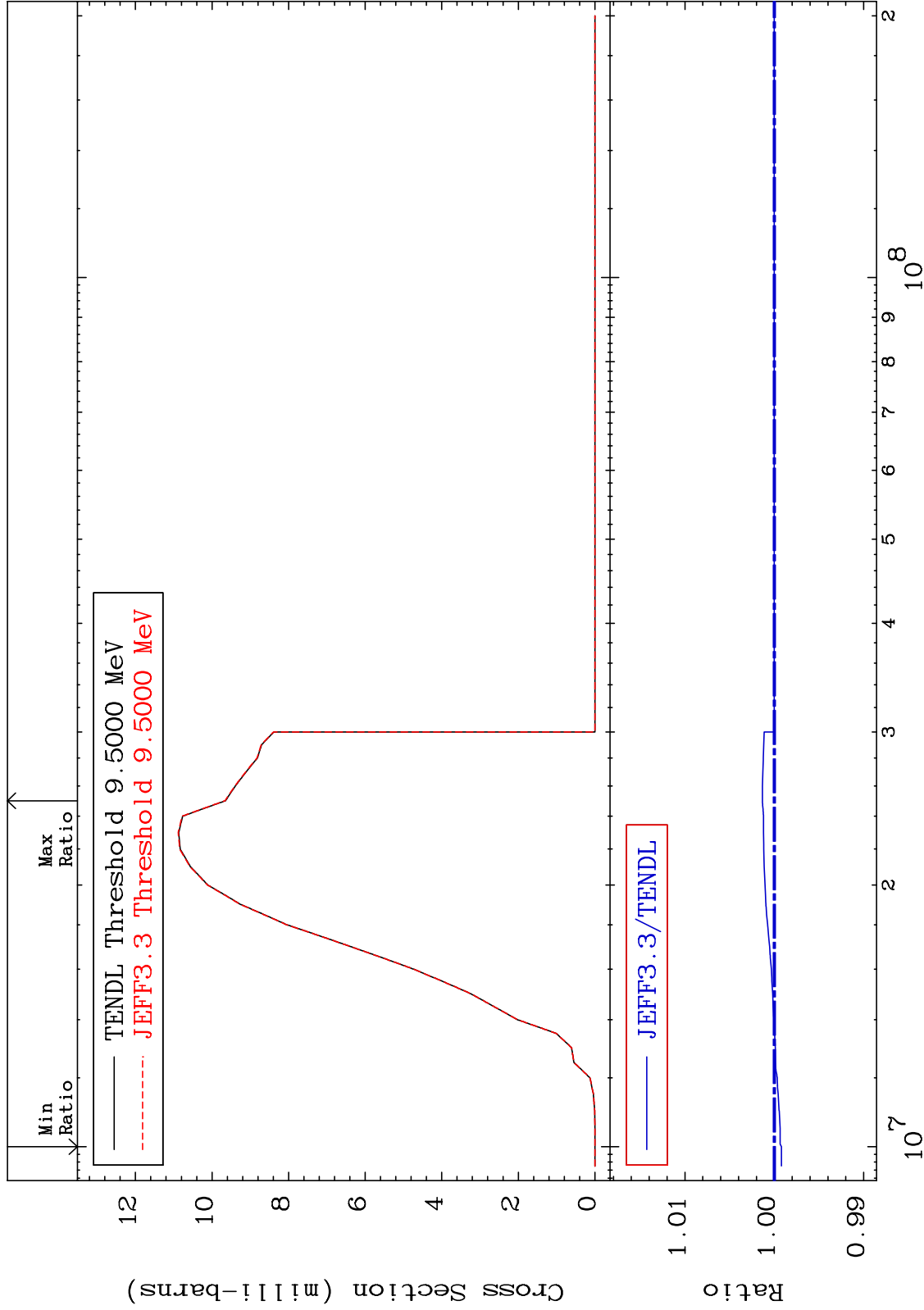


MAT 1834

(n,d):17-Cl-38m1

18-Ar-39

Radionuclide Production Cross Section -0.079 To 0.134 %



84

Incident Energy (eV)

18-Ar-39