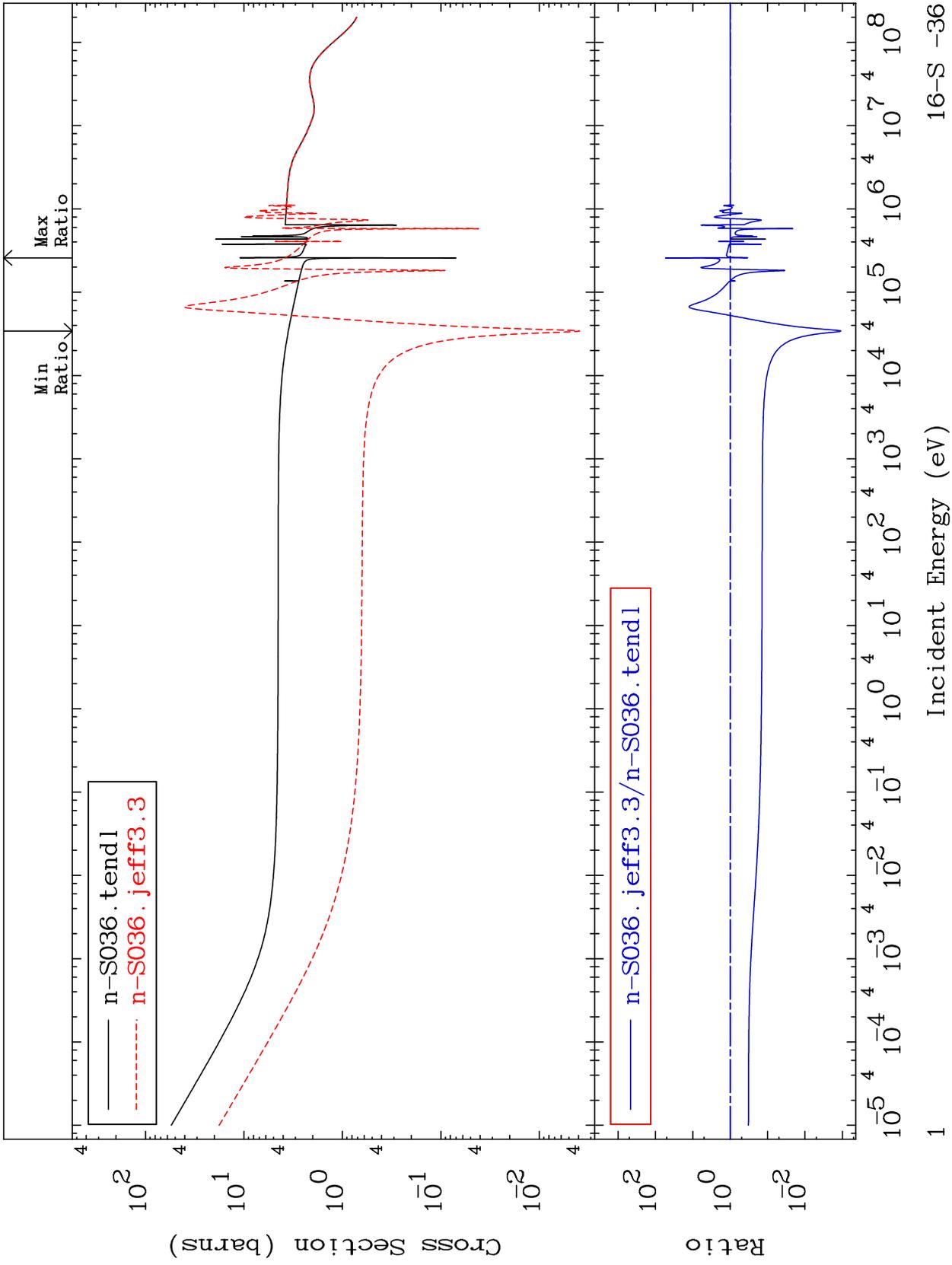


MAT 1637

Total  
Cross Section

16-S -36  
-99.89 To 5306. %



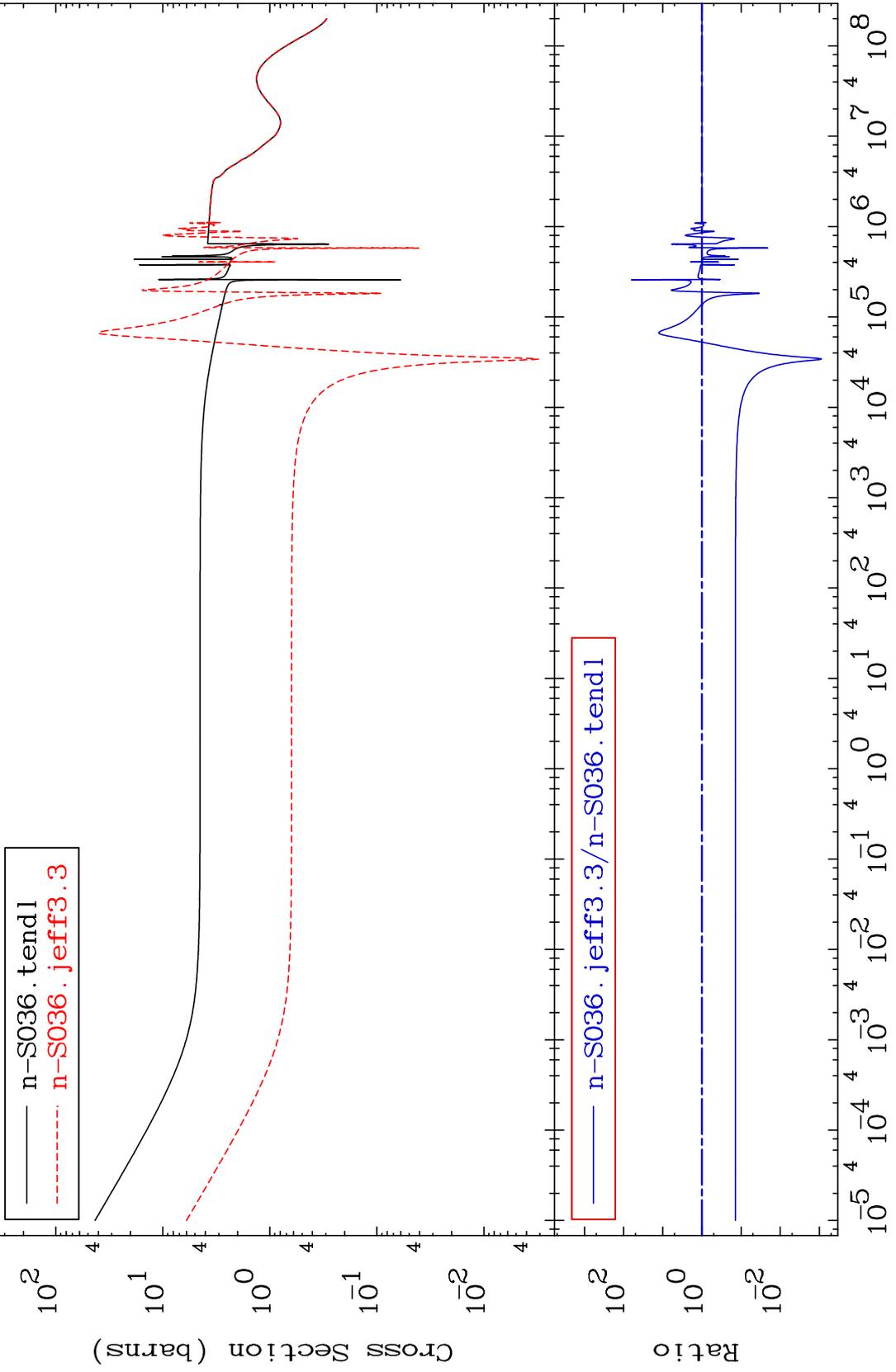
Incident Energy (eV)

16-S -36

MAT 1637

Elastic  
Cross Section

16-S -36  
-99.91 To 6250. %



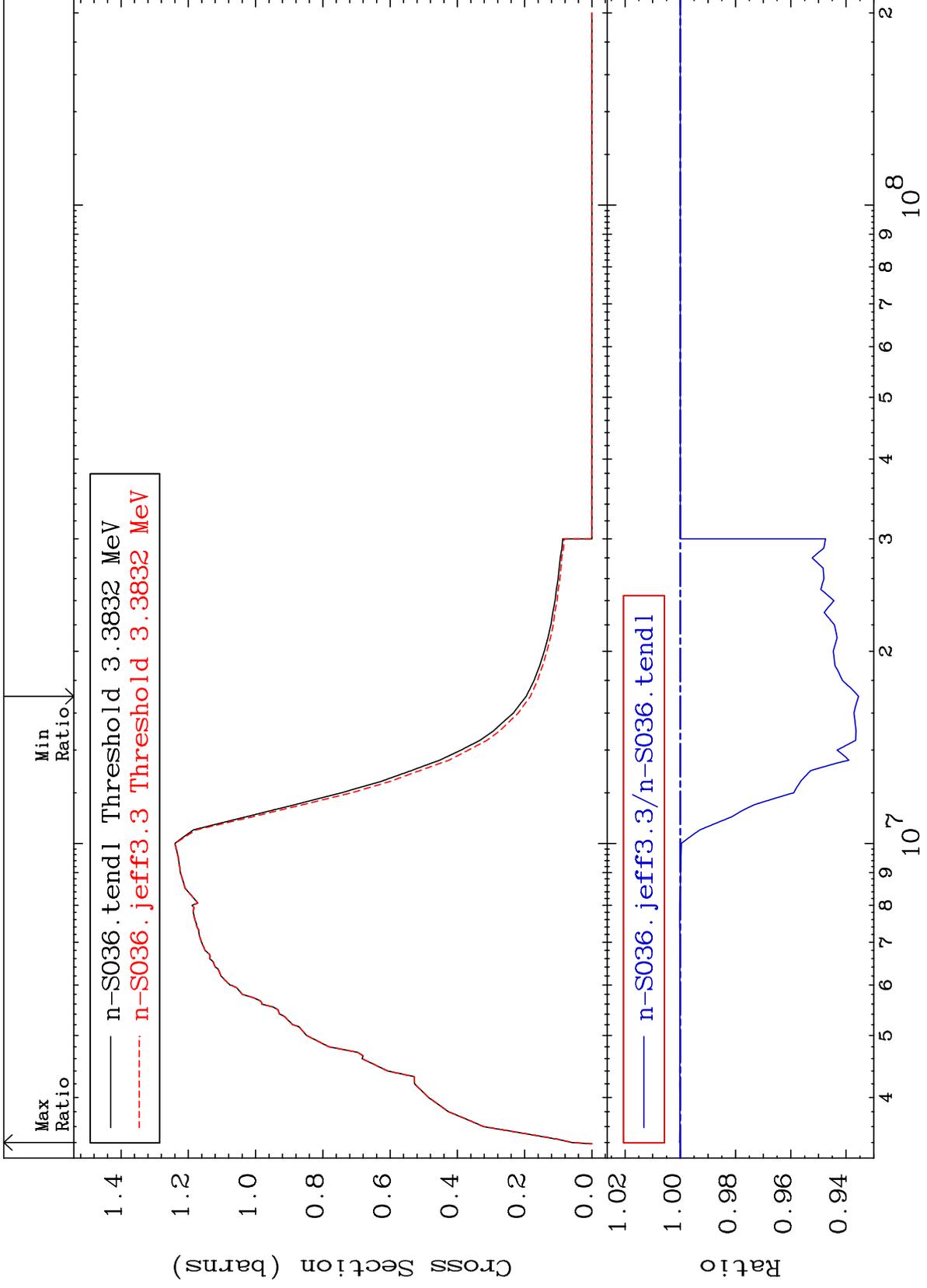
Incident Energy (eV)

16-S -36

MAT 1637

Inelastic  
Cross Section

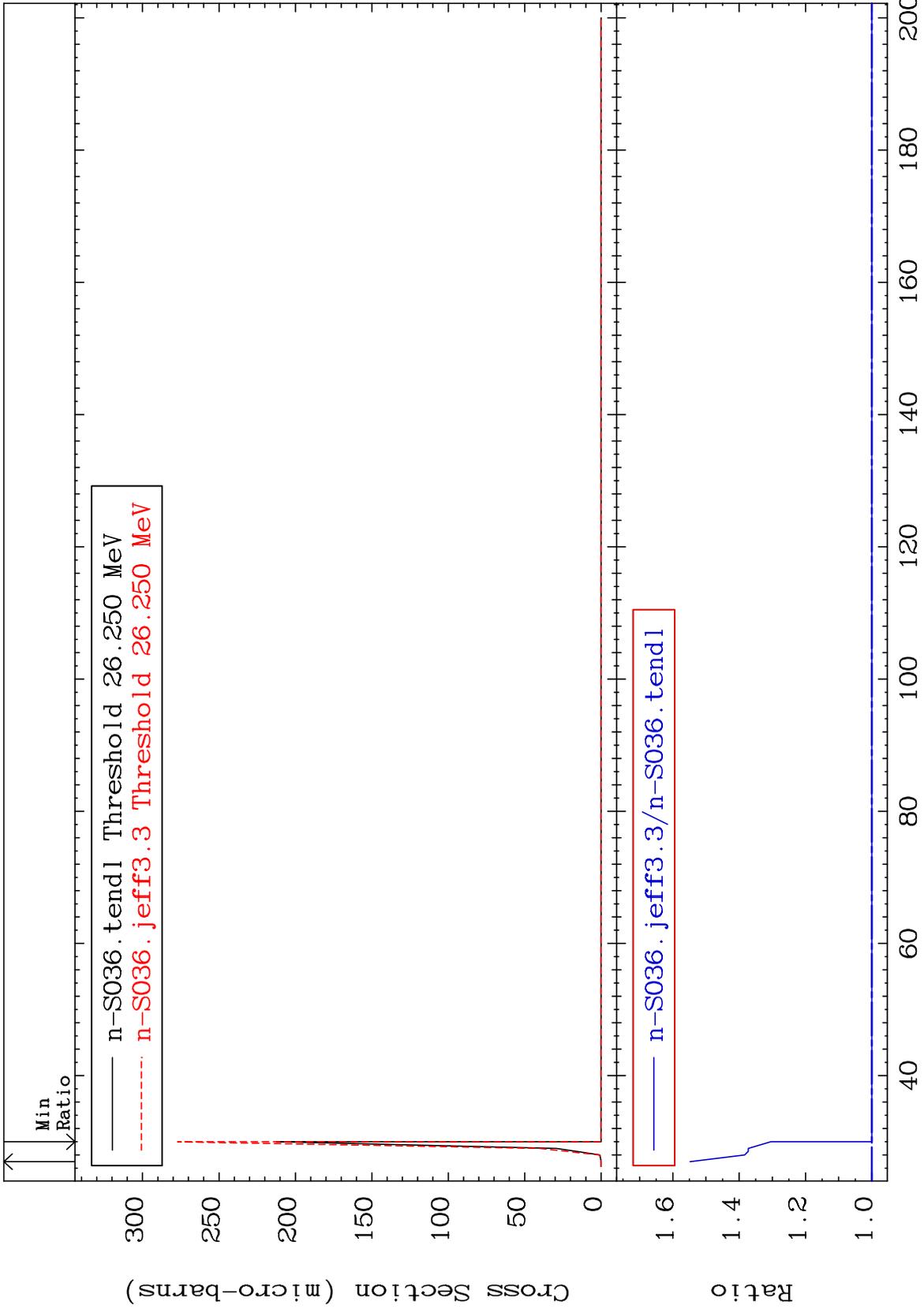
16-S -36  
-6.450 To 0.029 %



MAT 1637

(n,2n) d  
Cross Section

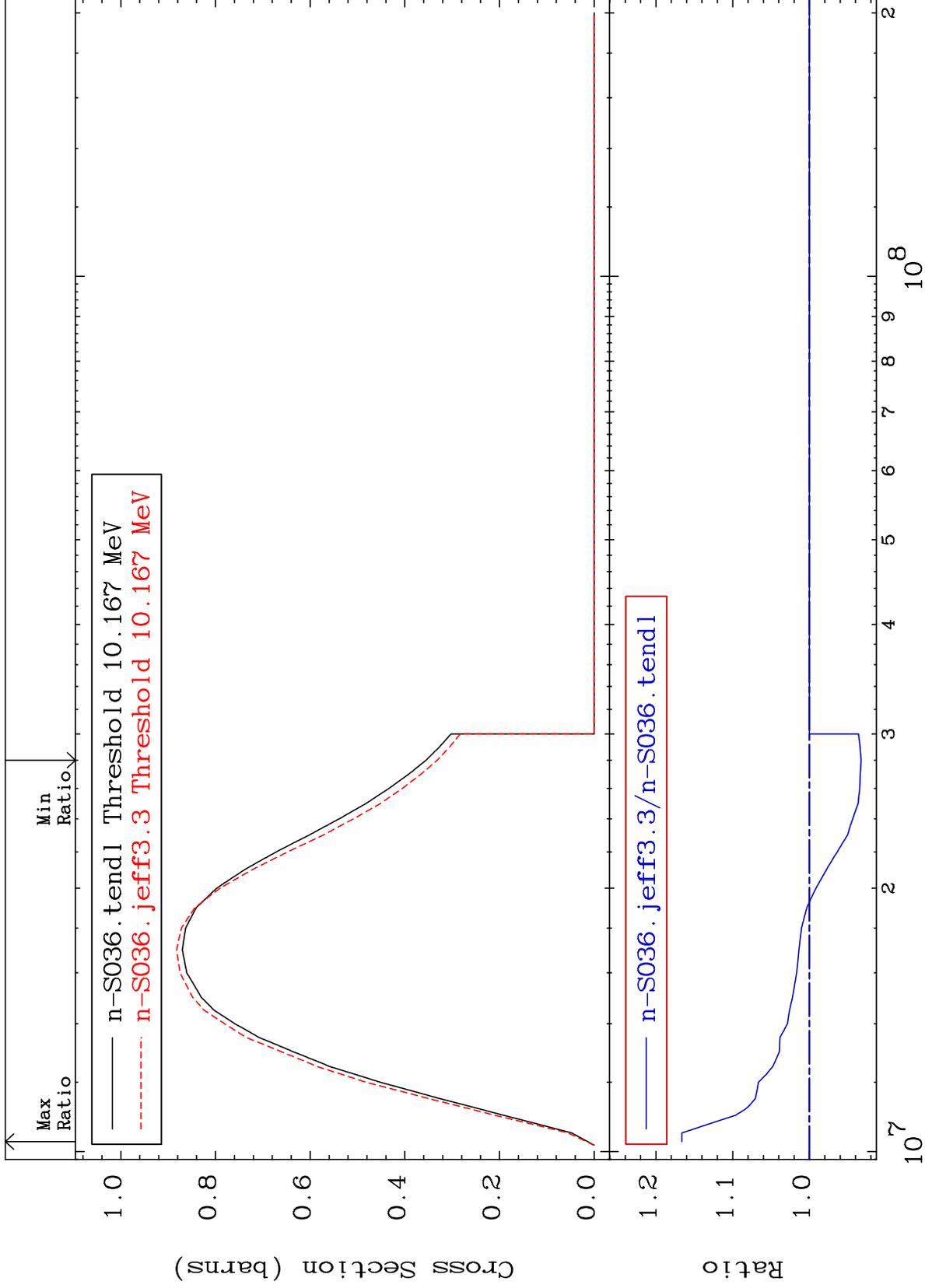
16-S -36  
0.000 To 54.79 %



MAT 1637

(n,2n)  
Cross Section

16-S -36  
-6.729 To 16.62 %



MAT 1637

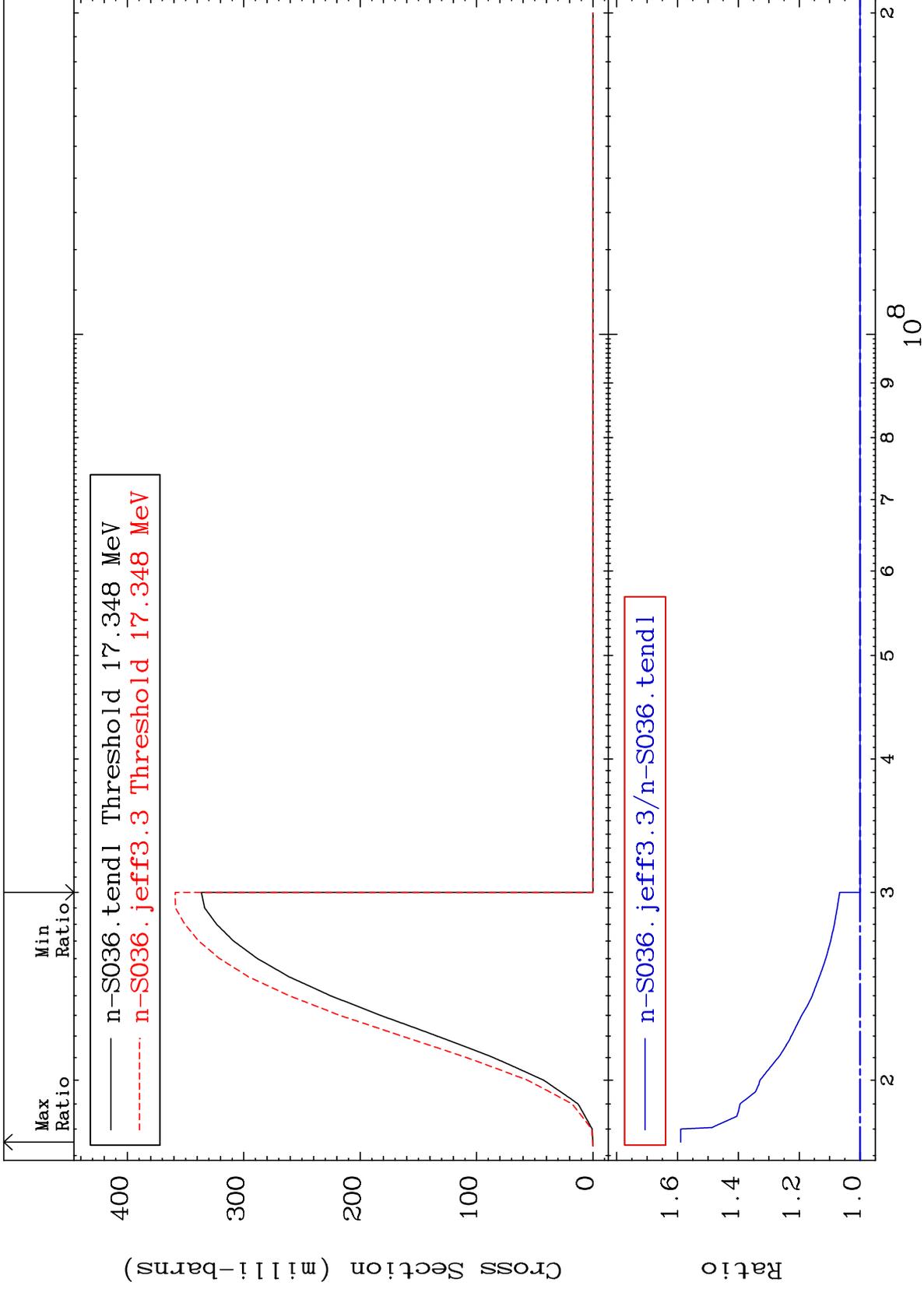
(n,3n)

16-S -36

Cross Section

0.000

To 58.94 %



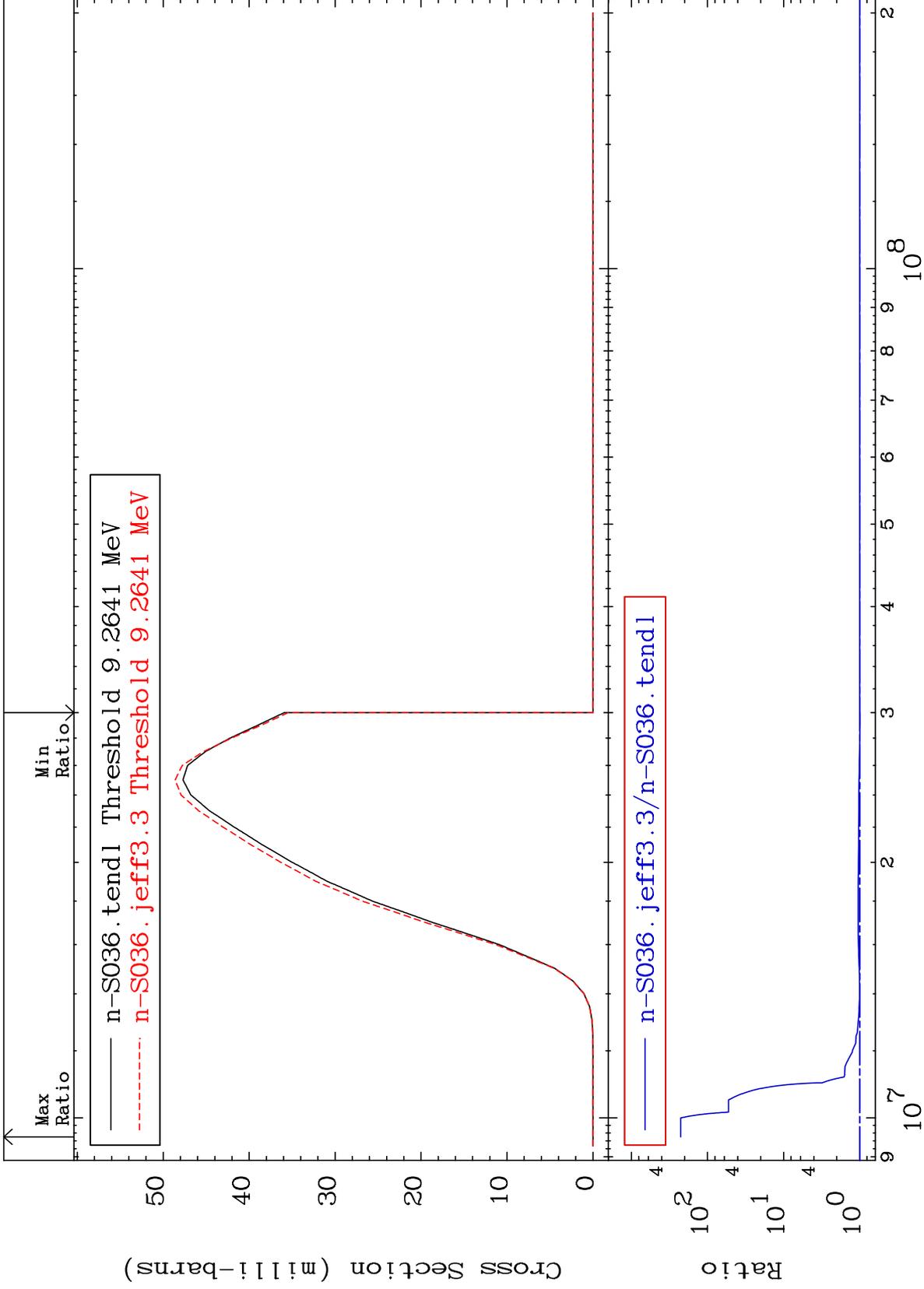
6

16-S -36

MAT 1637

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

16-S -36  
-1.231 To 9999. %



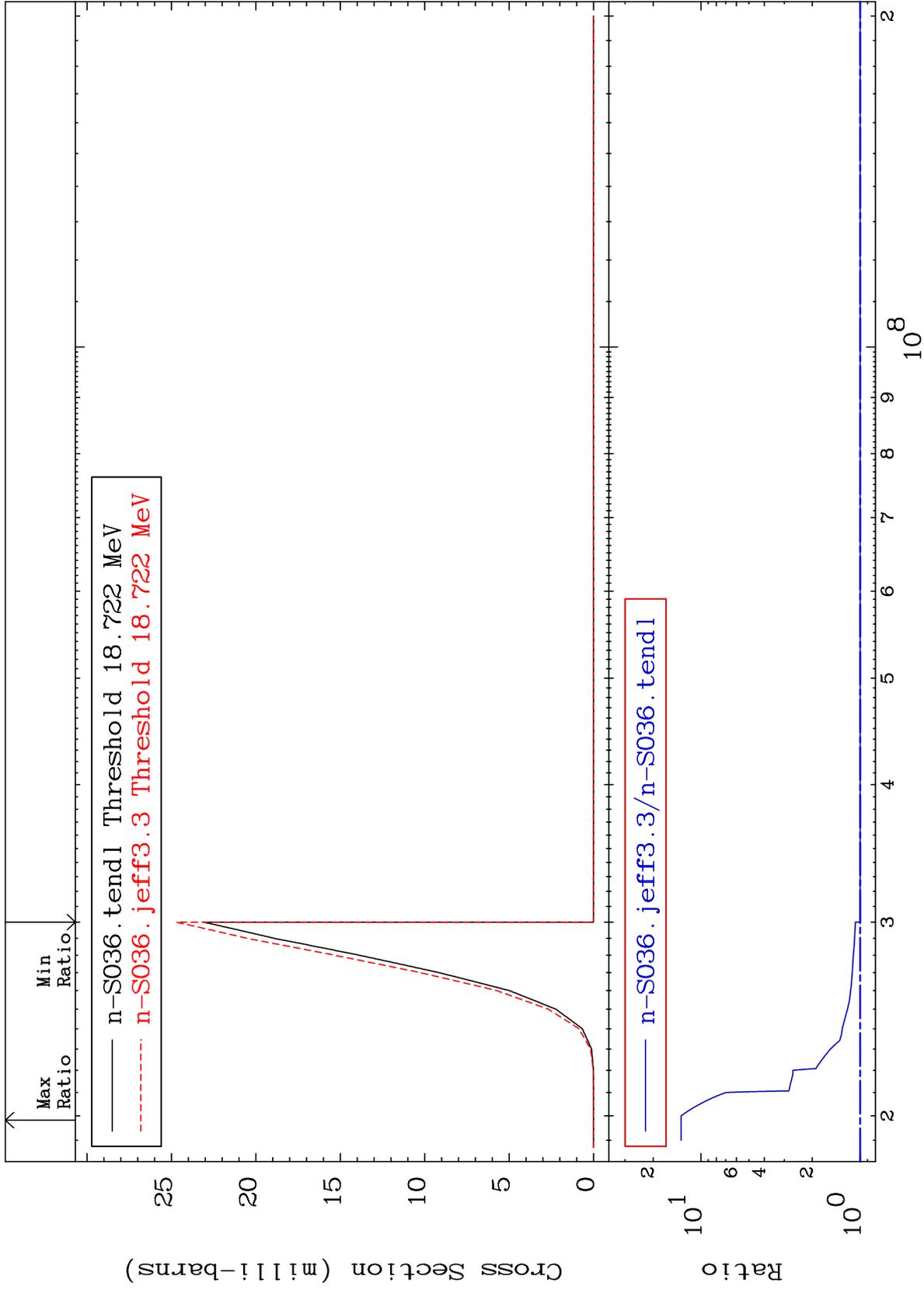
Incident Energy (eV)

16-S -36

MAT 1637

(n,2n)  $\alpha$   
Cross Section

16-S -36  
0.000 To 1233. %



8

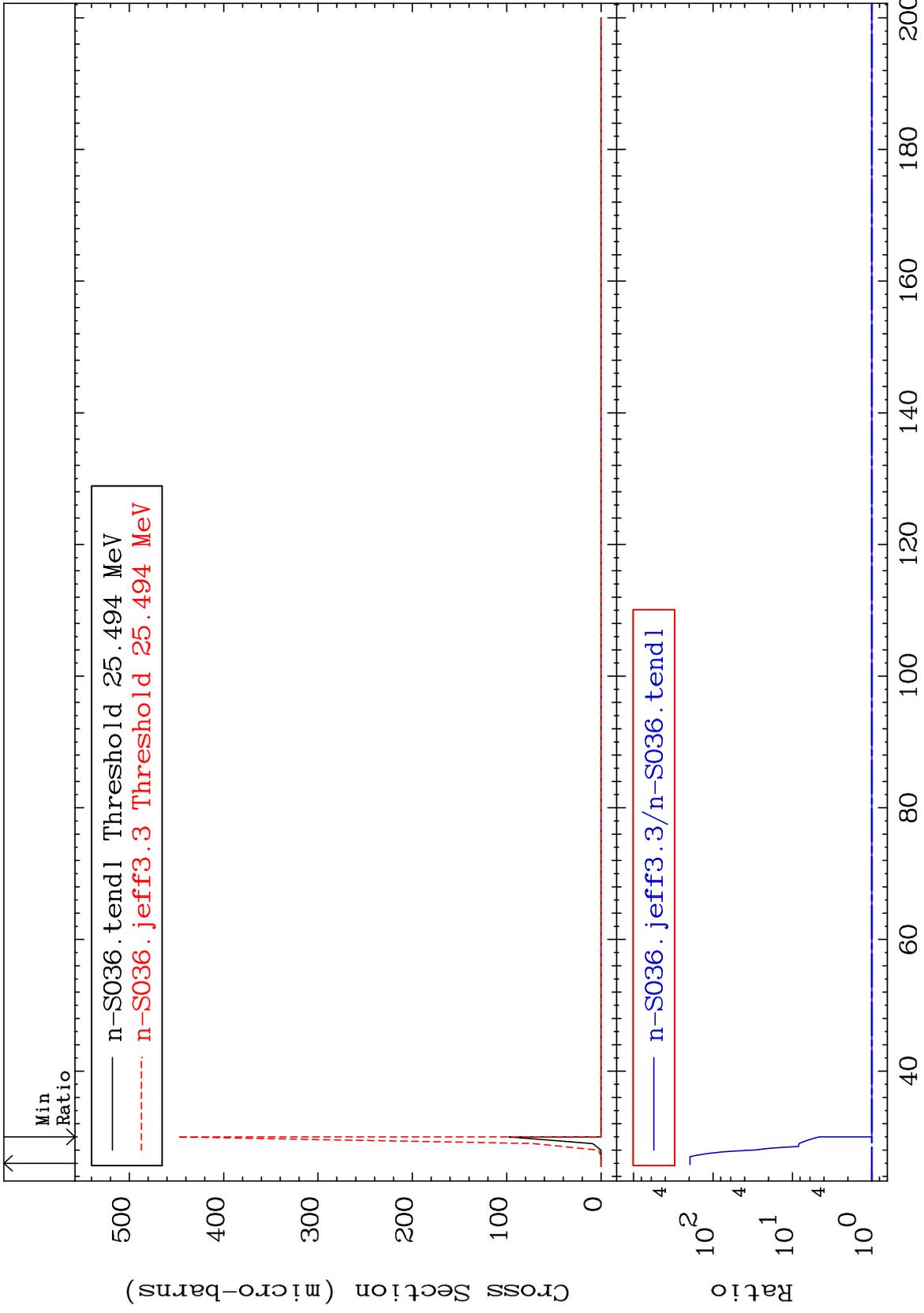
Incident Energy (eV)

16-S -36

MAT 1637

(n,3n)  $\alpha$   
Cross Section

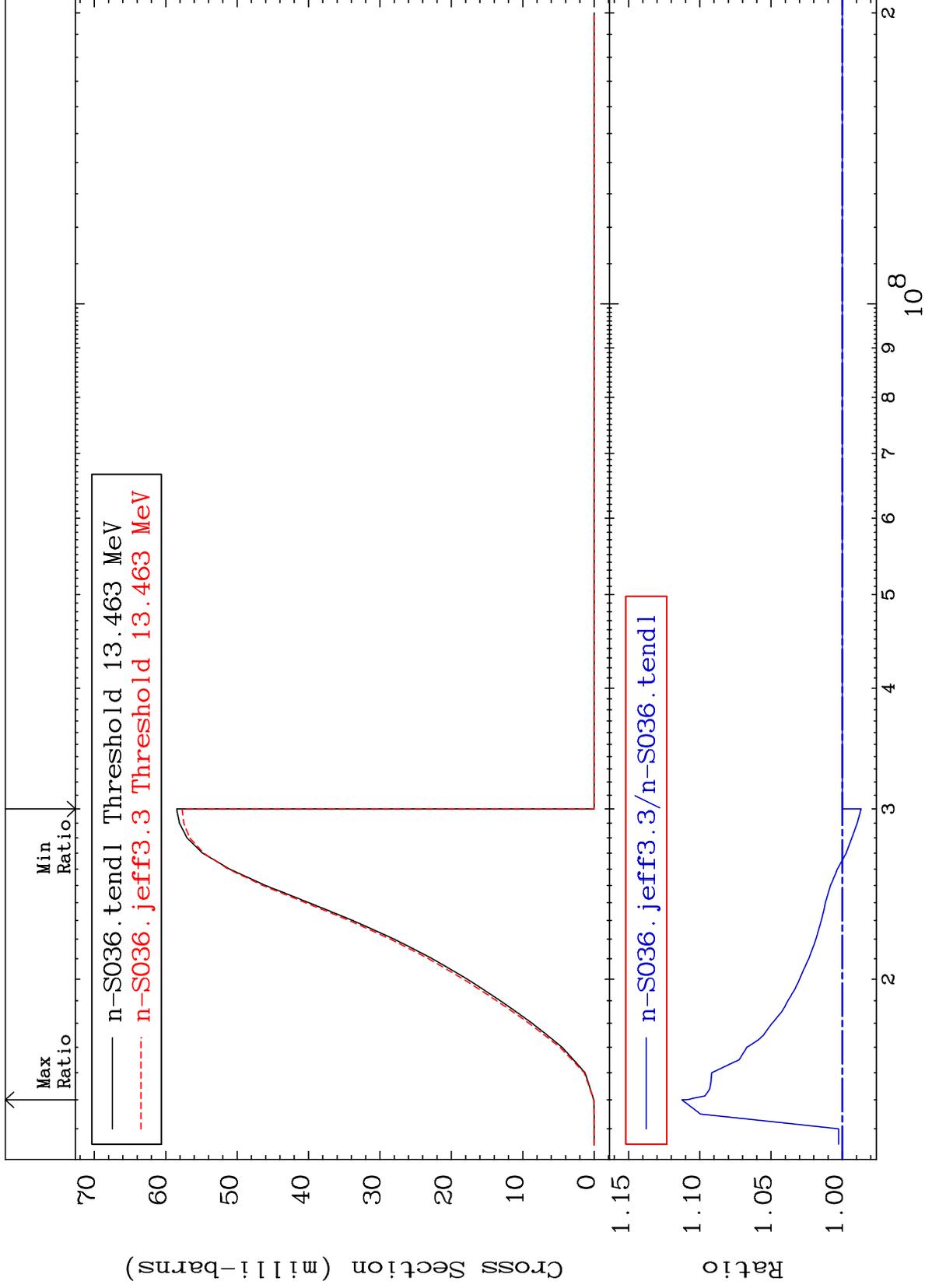
16-S -36  
0.000 To 9999. %



MAT 1637

(n,n') p  
Cross Section

16-S -36  
-1.319 To 11.26 %



10

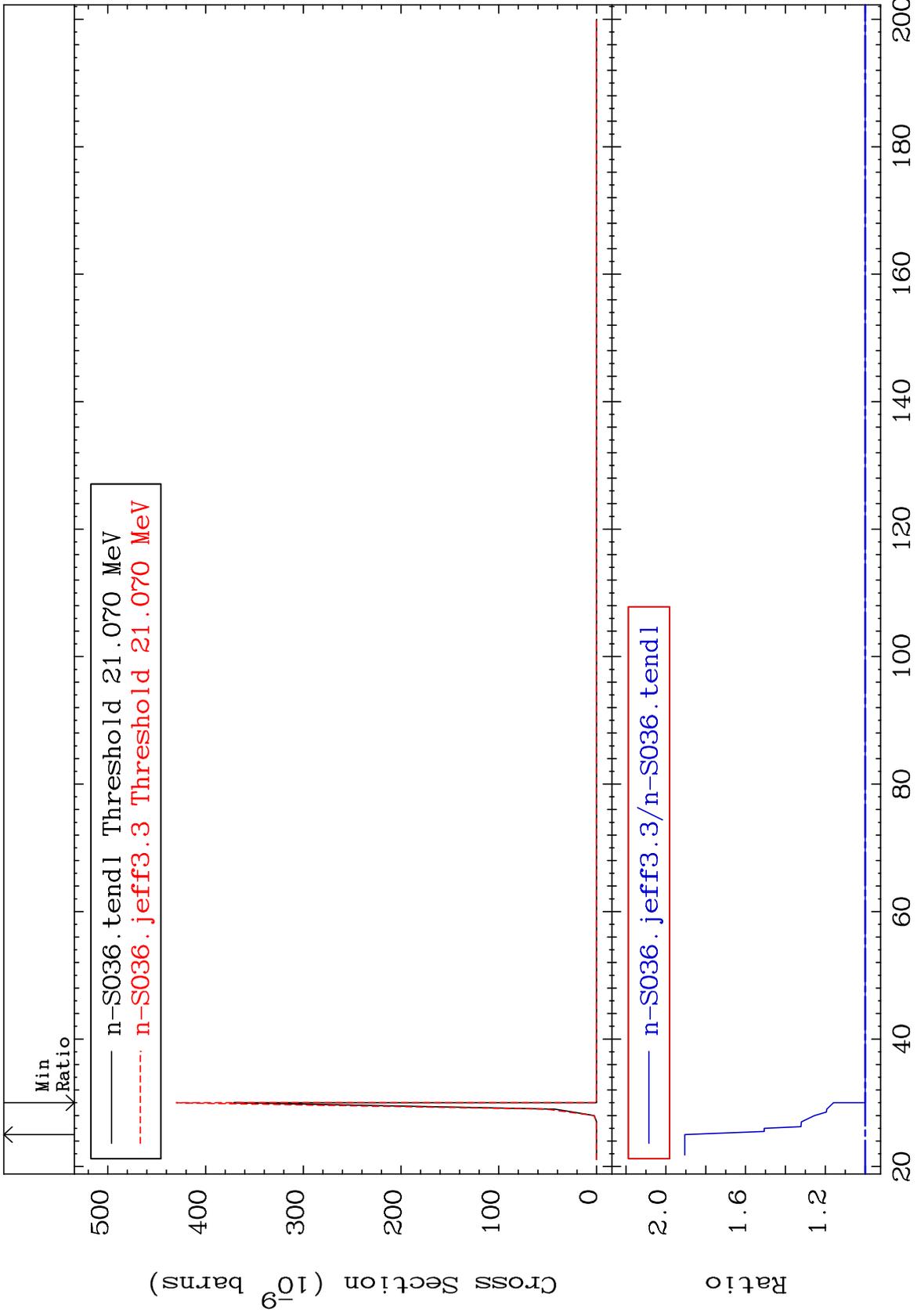
Incident Energy (eV)

16-S -36

MAT 1637

(n,n') 2α  
Cross Section

16-S -36  
0.000 To 90.47 %



11

Incident Energy (MeV)

16-S -36



MAT 1637

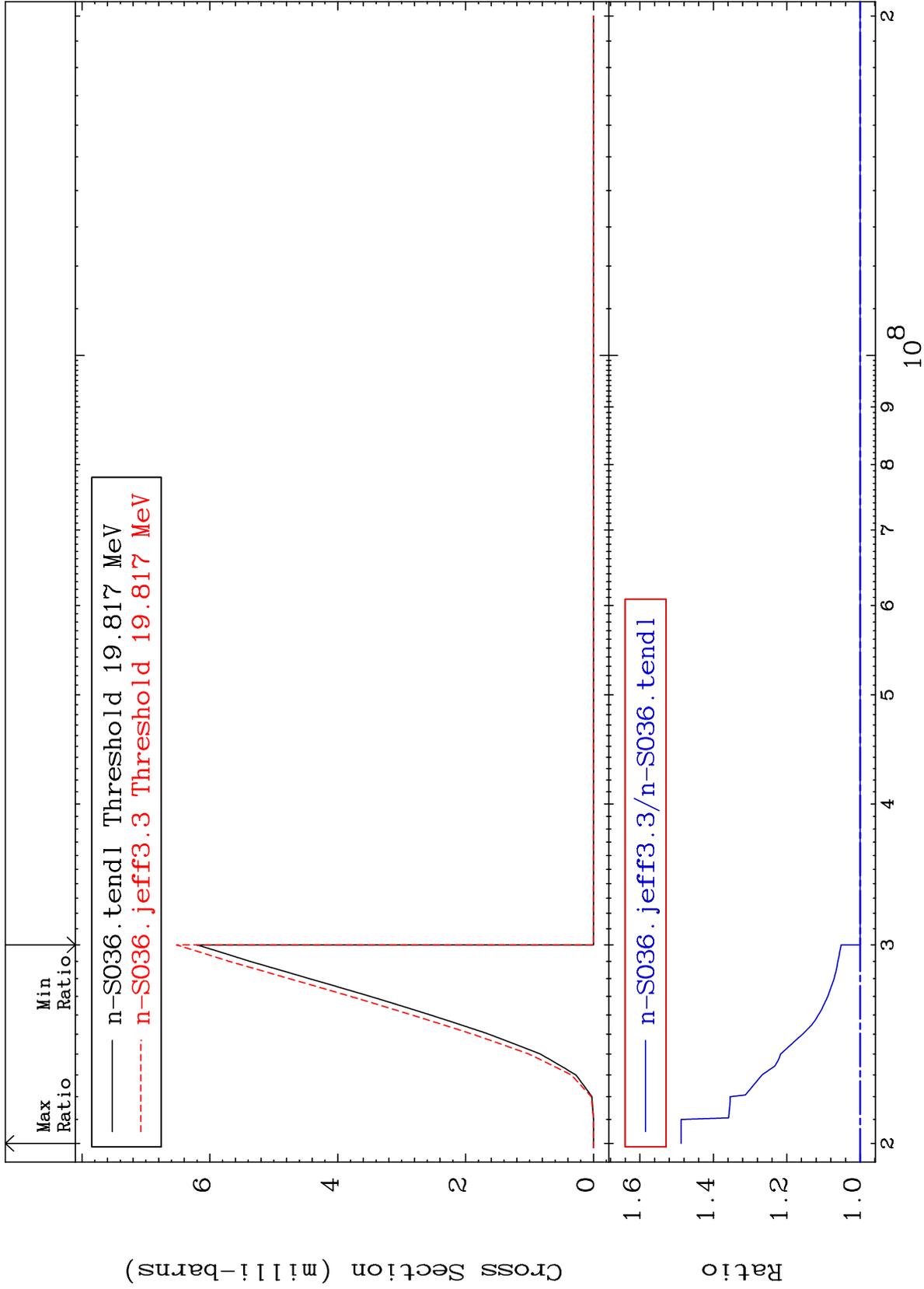
(n,n') t

16-S -36

Cross Section

0.000

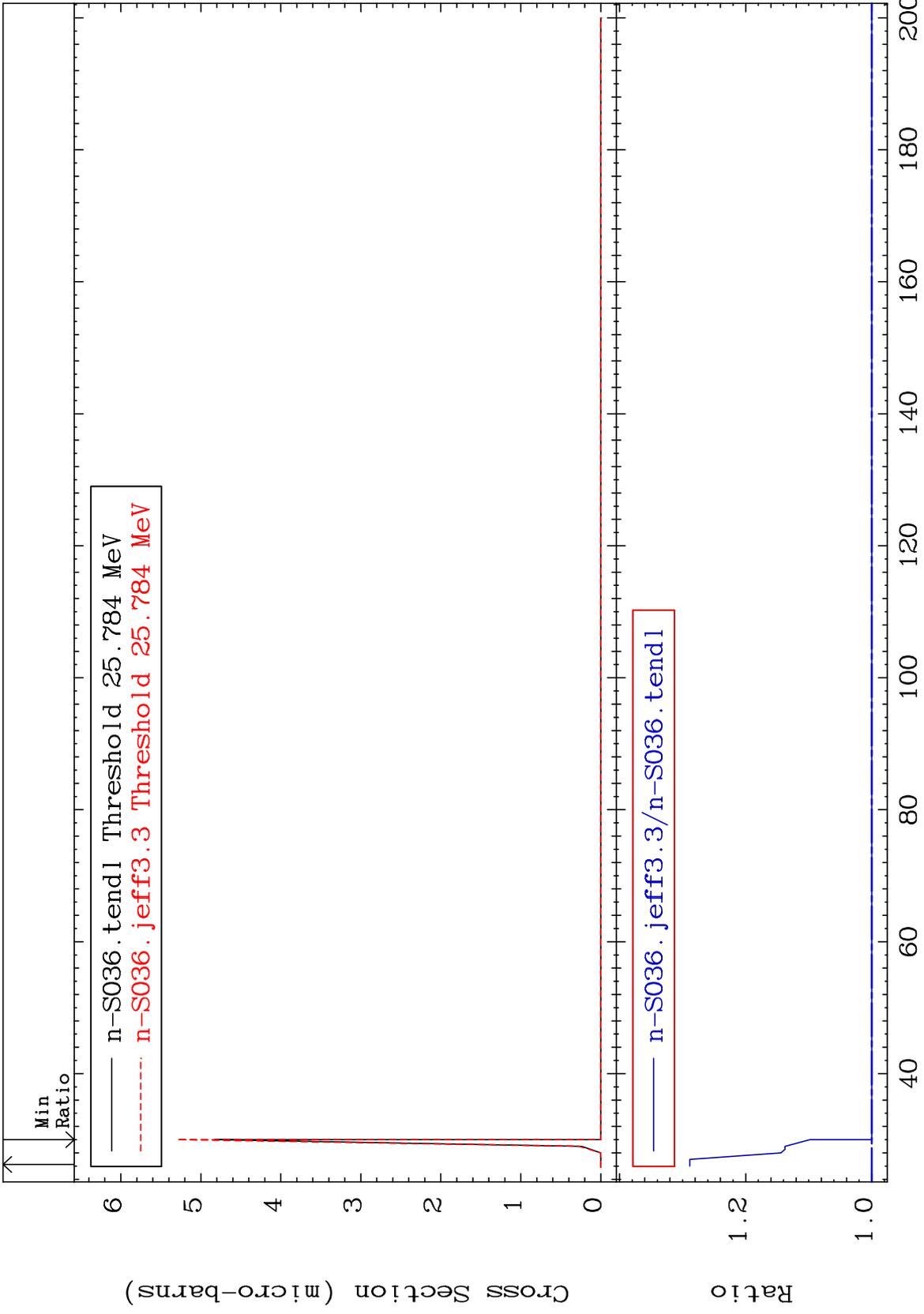
To 48.76 %



MAT 1637

(n, n') He-3  
Cross Section

16-S -36  
0.000 To 28.84 %



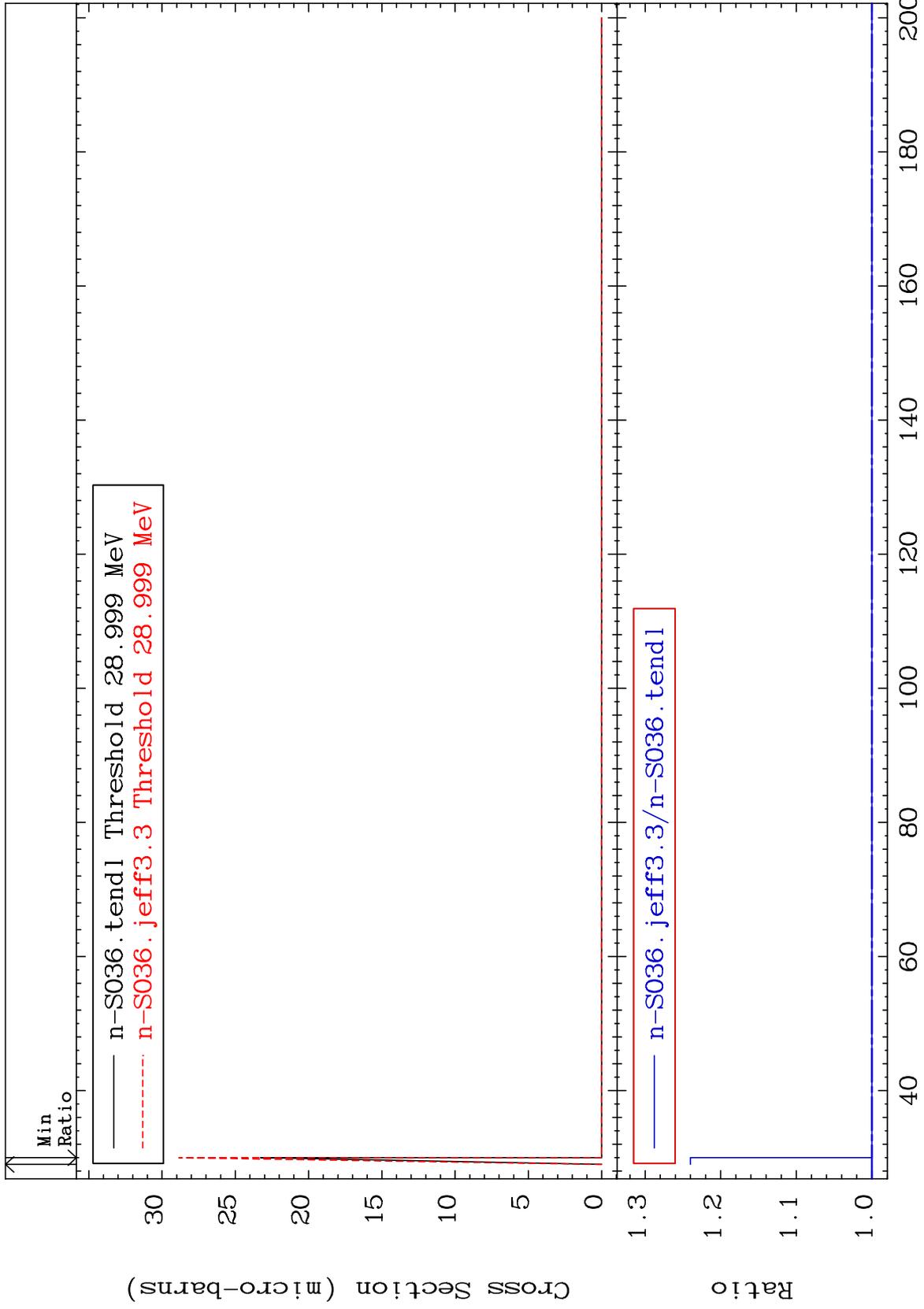
MAT 1637

(n,4n)

16-S -36

Cross Section

0.000 To 24.00 %



15

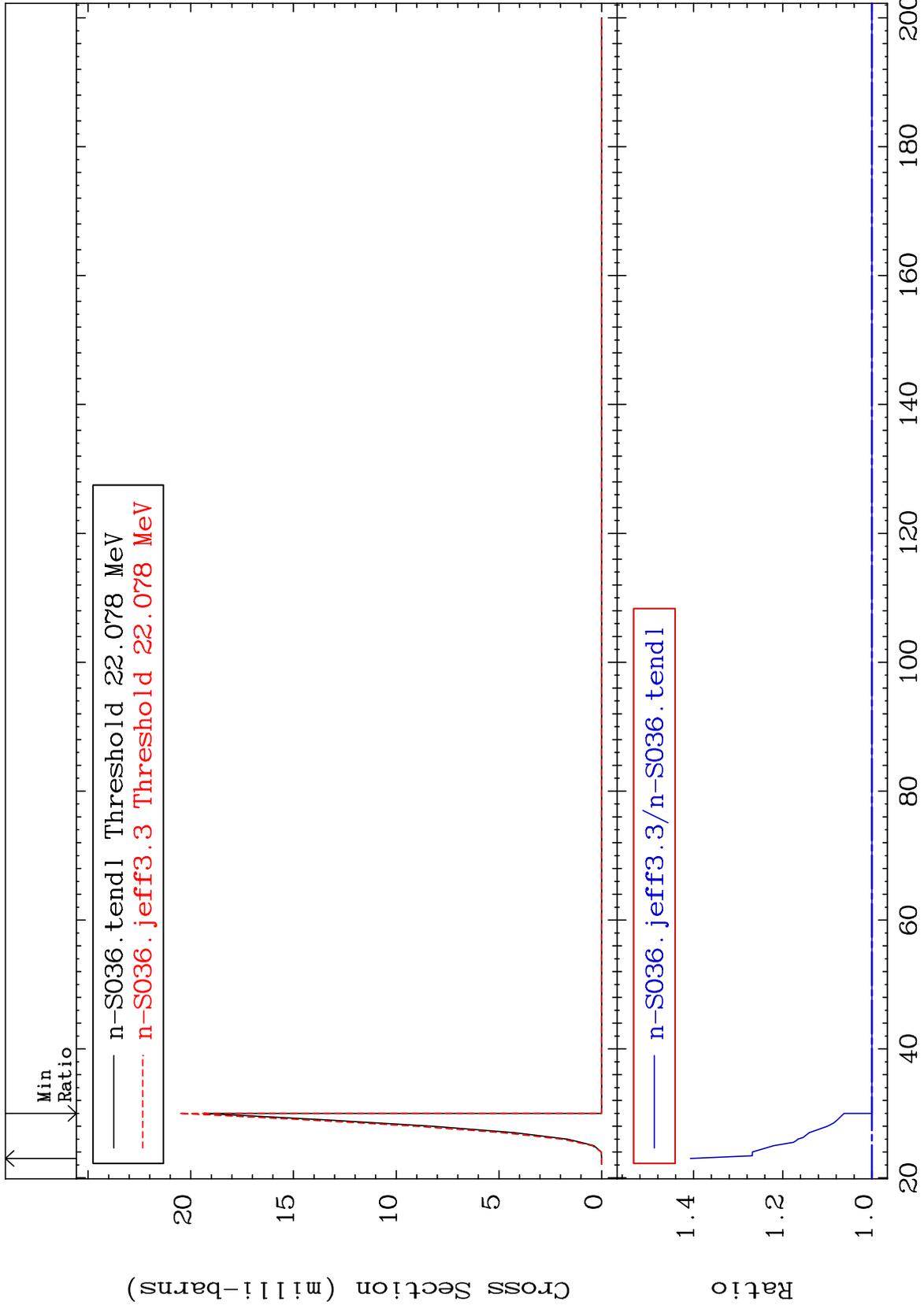
Incident Energy (MeV)

16-S -36

MAT 1637

(n,2n) p  
Cross Section

16-S -36  
0.000 To 40.68 %



16

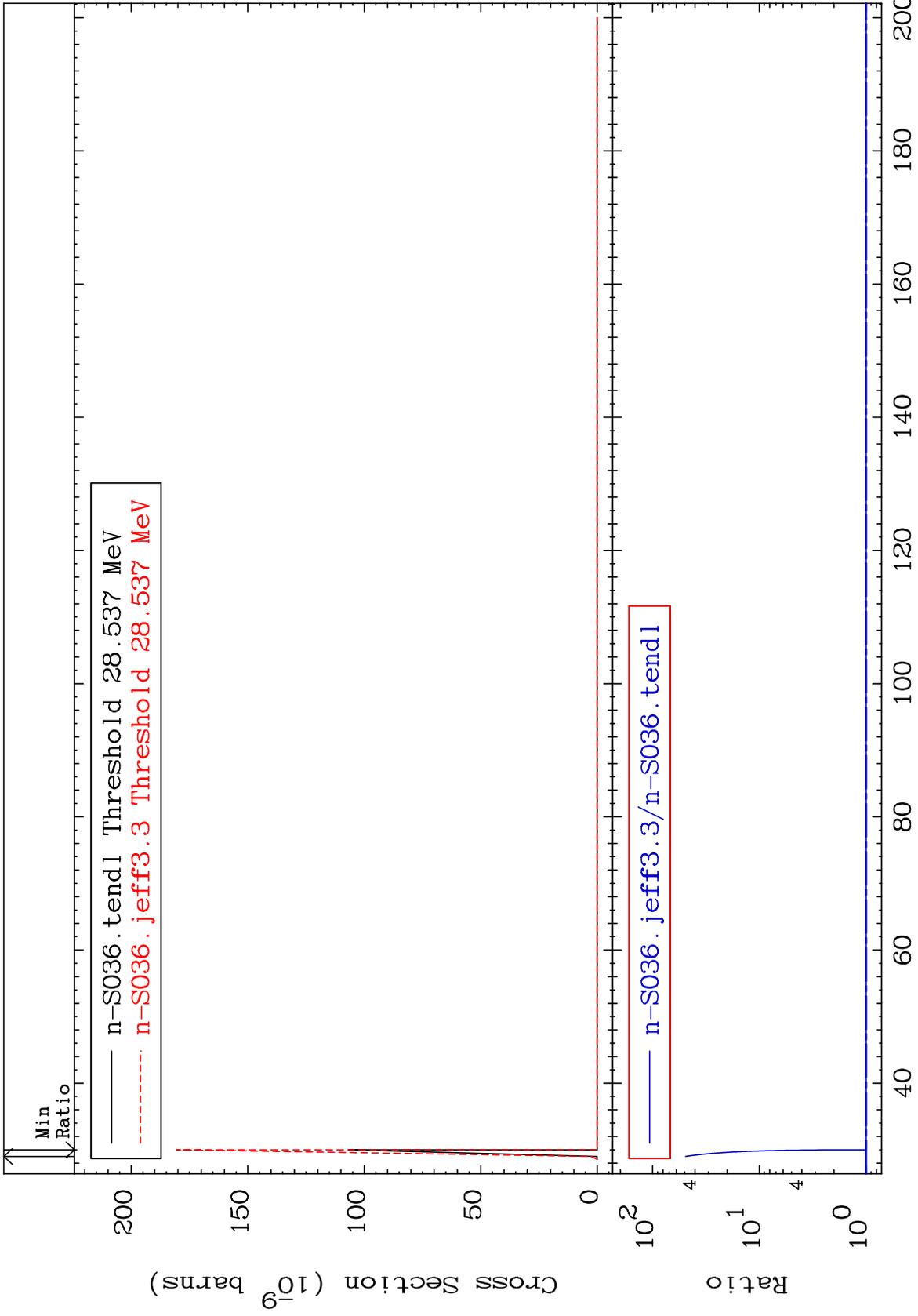
Incident Energy (MeV)

16-S -36

MAT 1637

(n,3n) p  
Cross Section

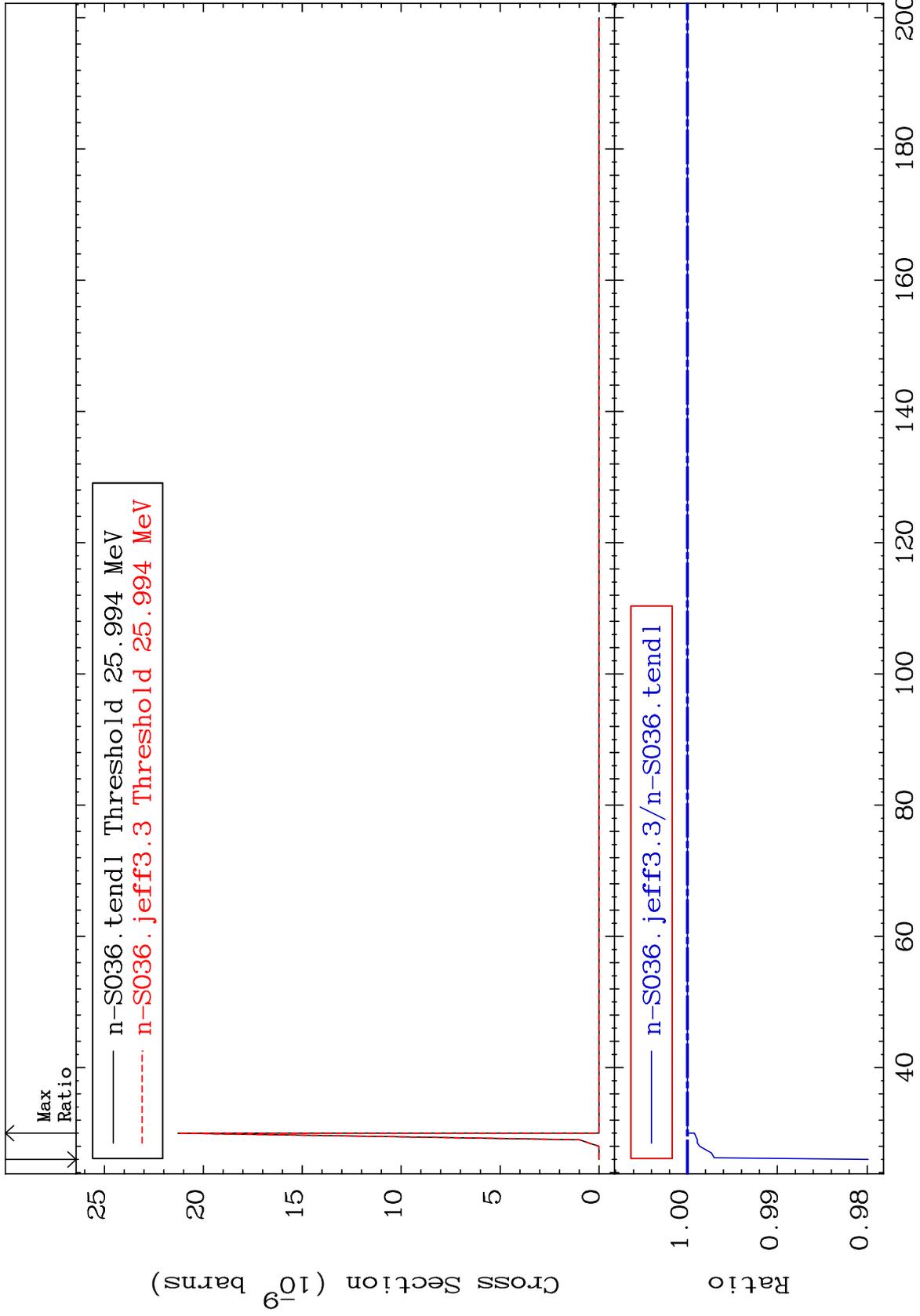
16-S -36  
0.000 To 4810. %



MAT 1637

(n,2n) p  
Cross Section

16-S -36  
-2.010 To 0.000 %



18

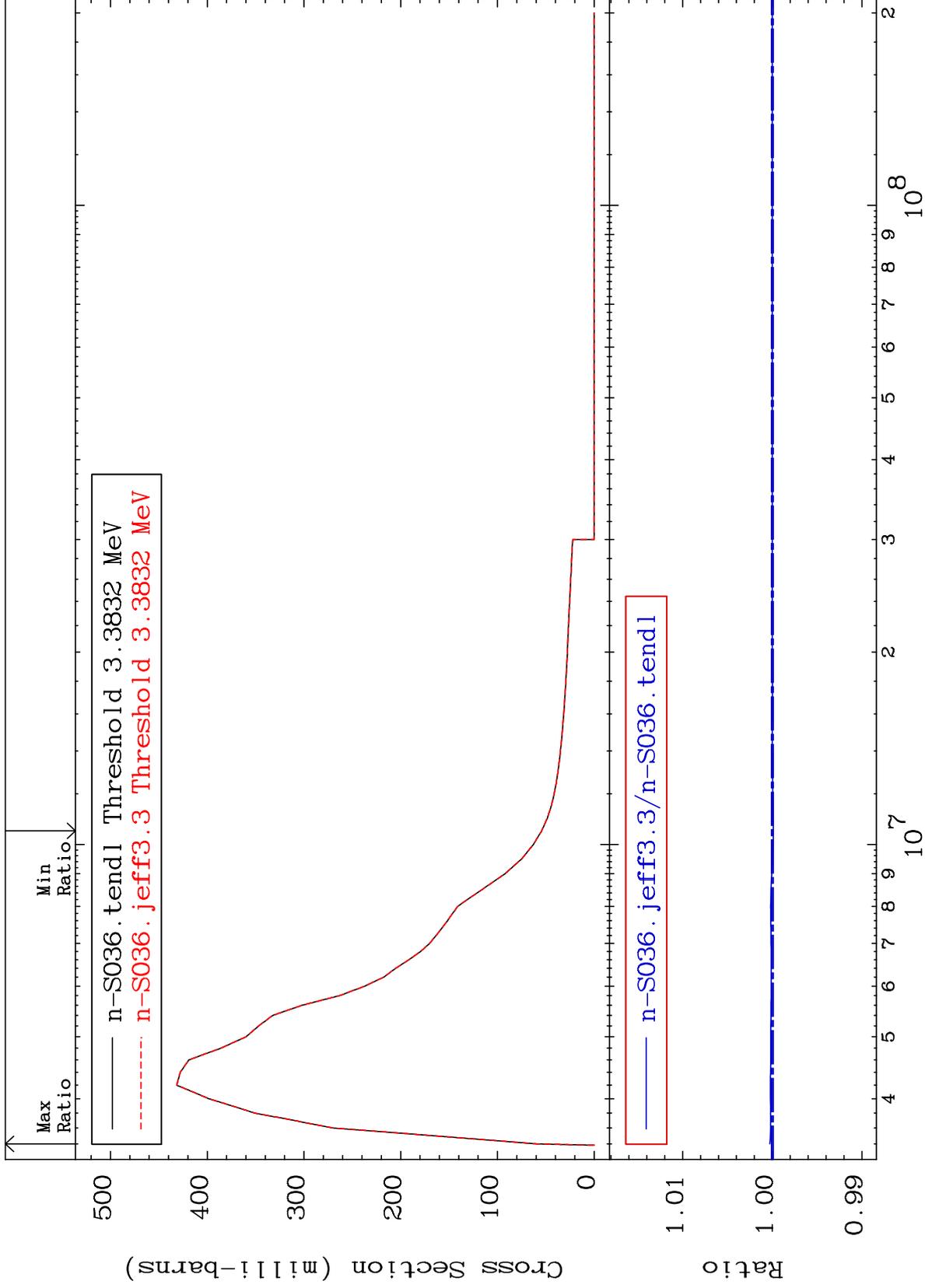
Incident Energy (MeV)

16-S -36

MAT 1637

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

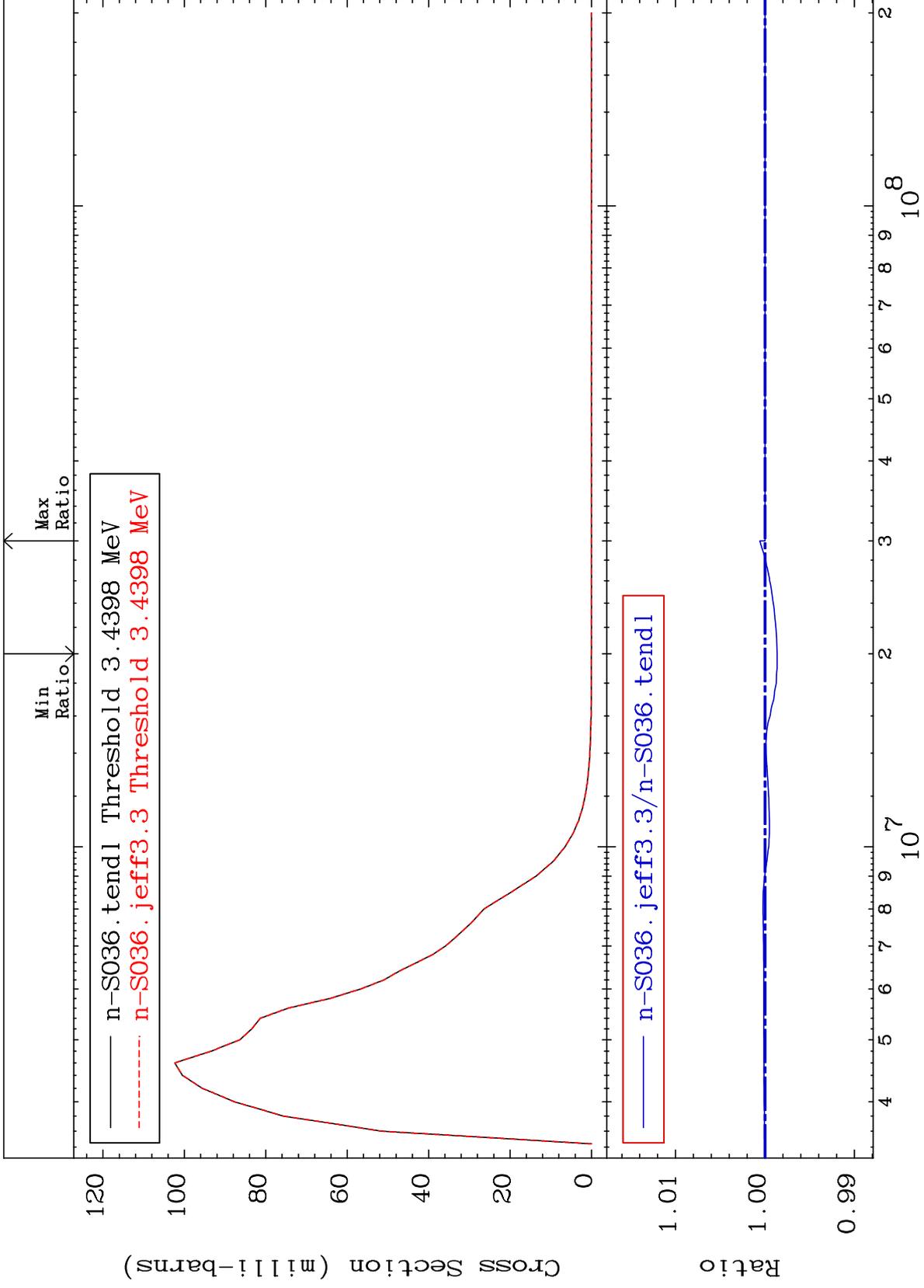
16-S -36  
-0.012 To 0.029 %



MAT 1637

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

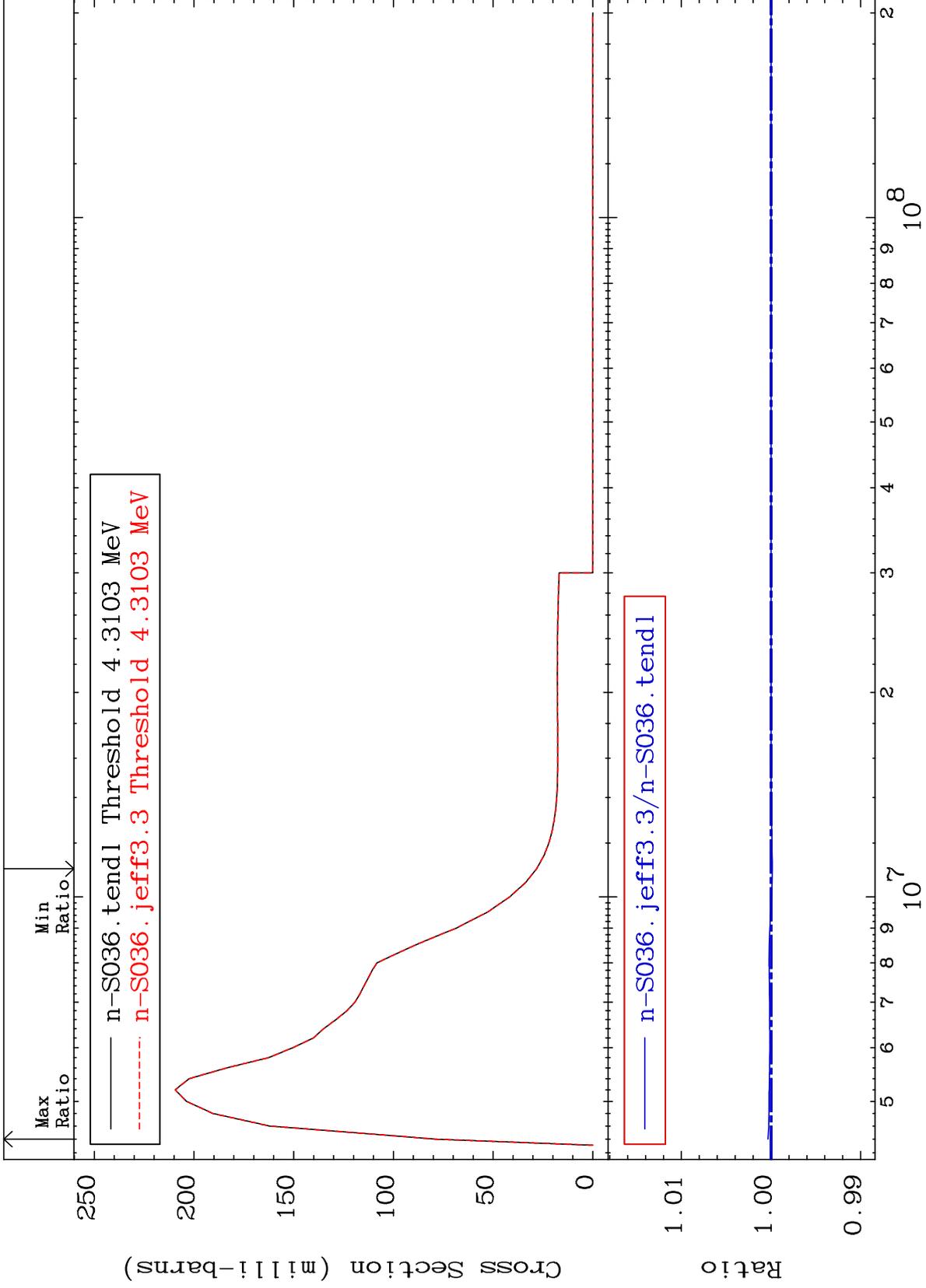
16-S -36  
-0.136 To 0.058 %



20

Incident Energy (eV)

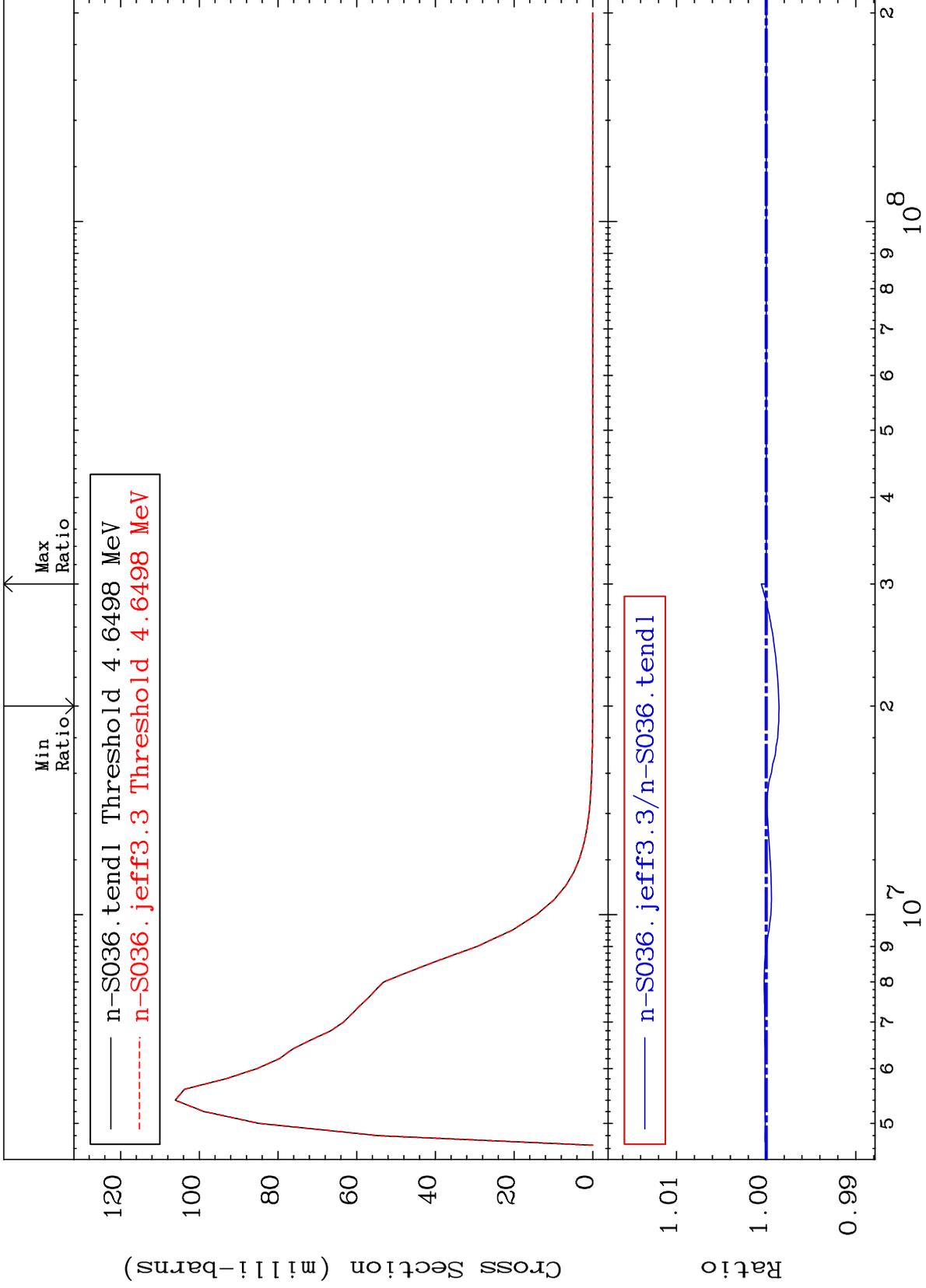
16-S -36

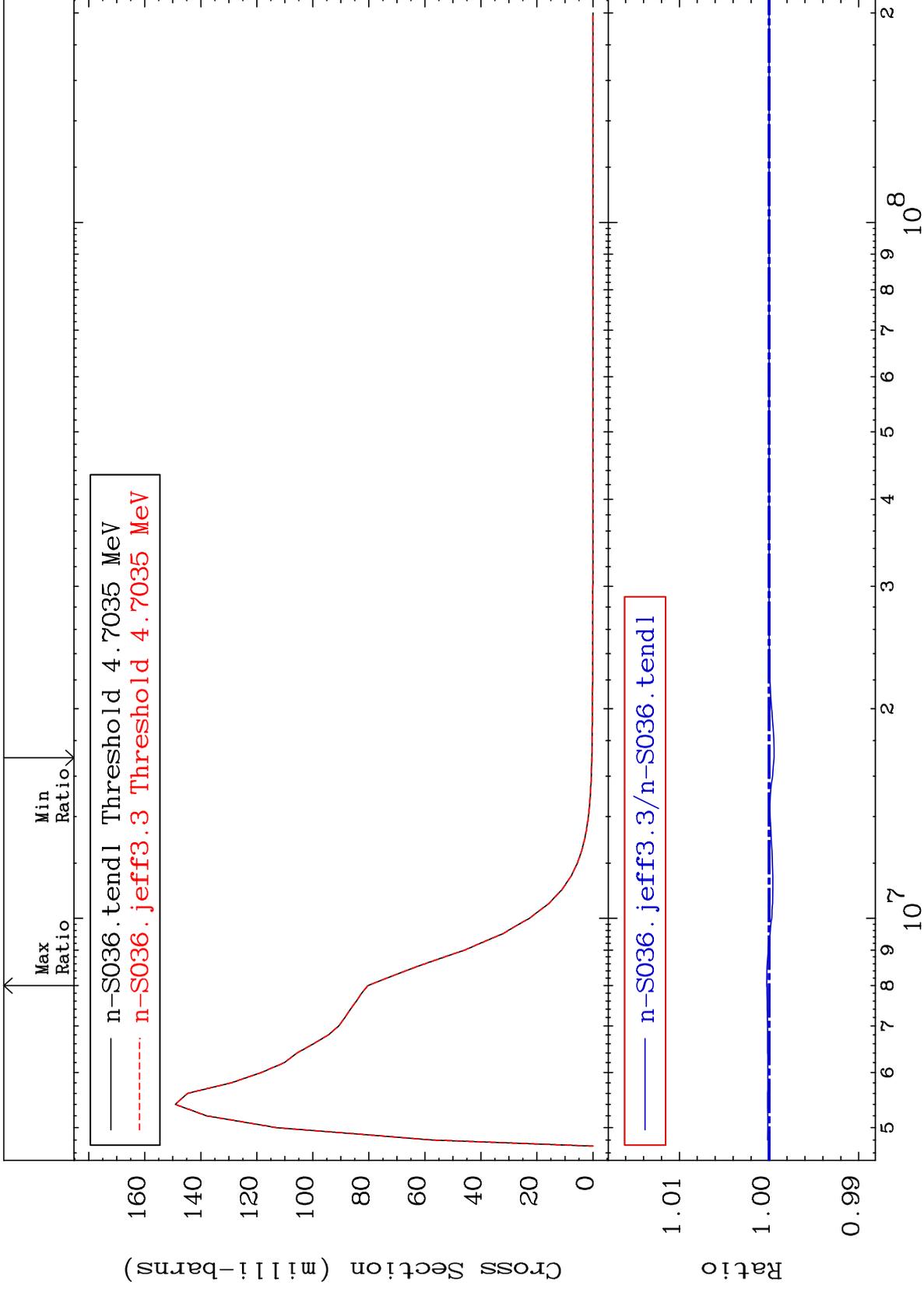


MAT 1637

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

16-S -36  
-0.142 To 0.054 %

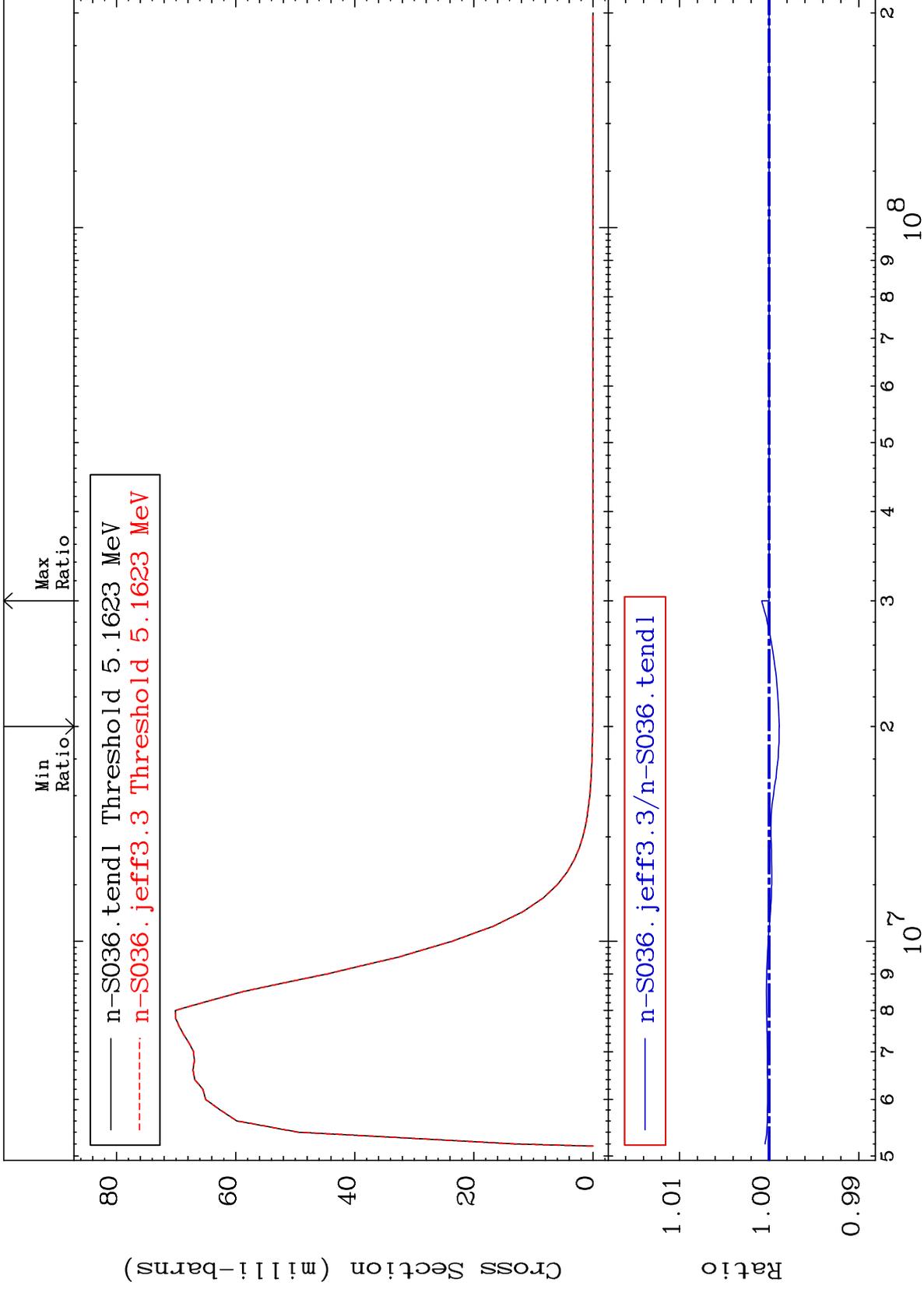




MAT 1637

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

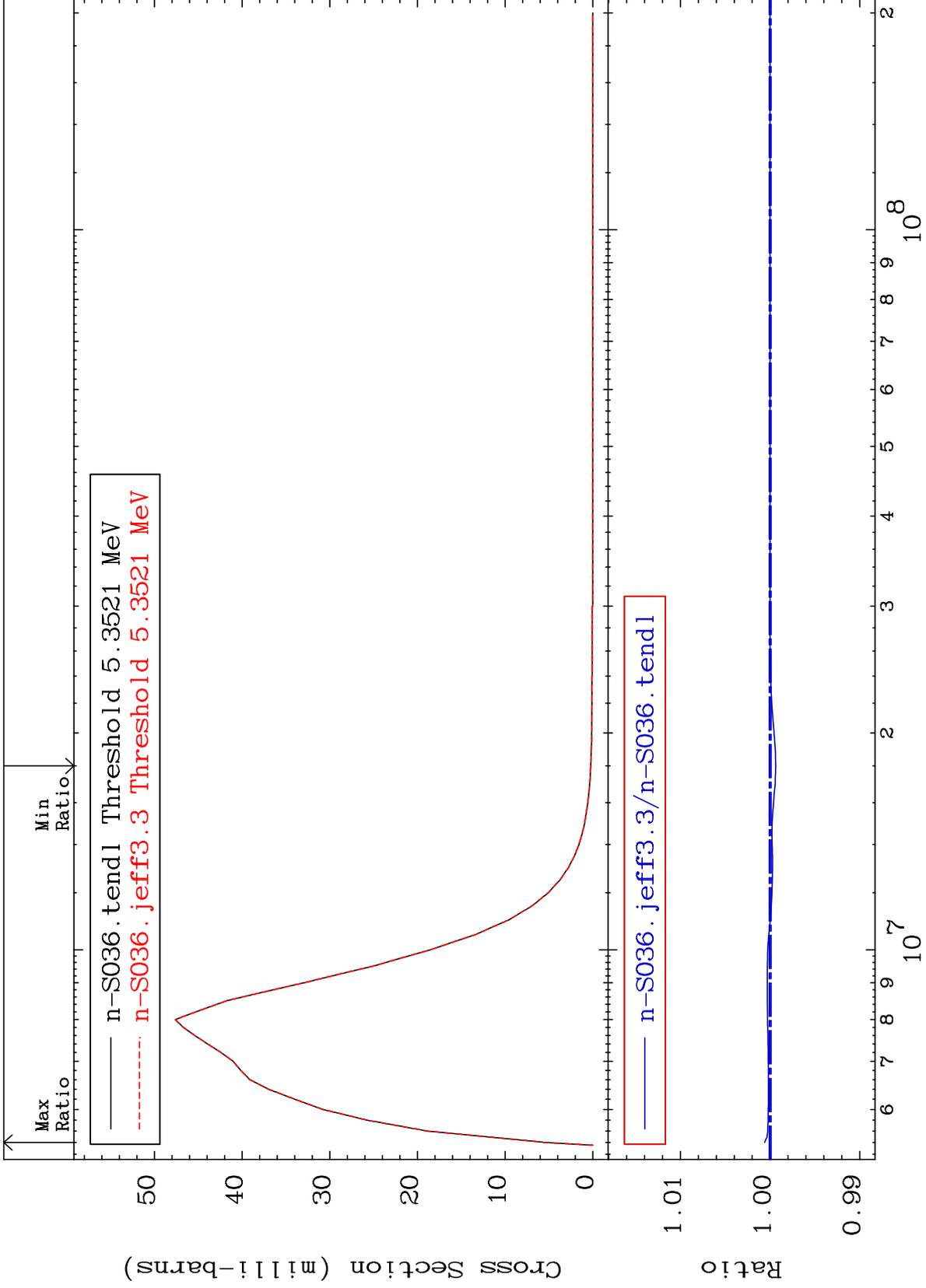
16-S -36  
-0.113 To 0.082 %



MAT 1637

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

16-S -36  
-0.063 To 0.061 %



25

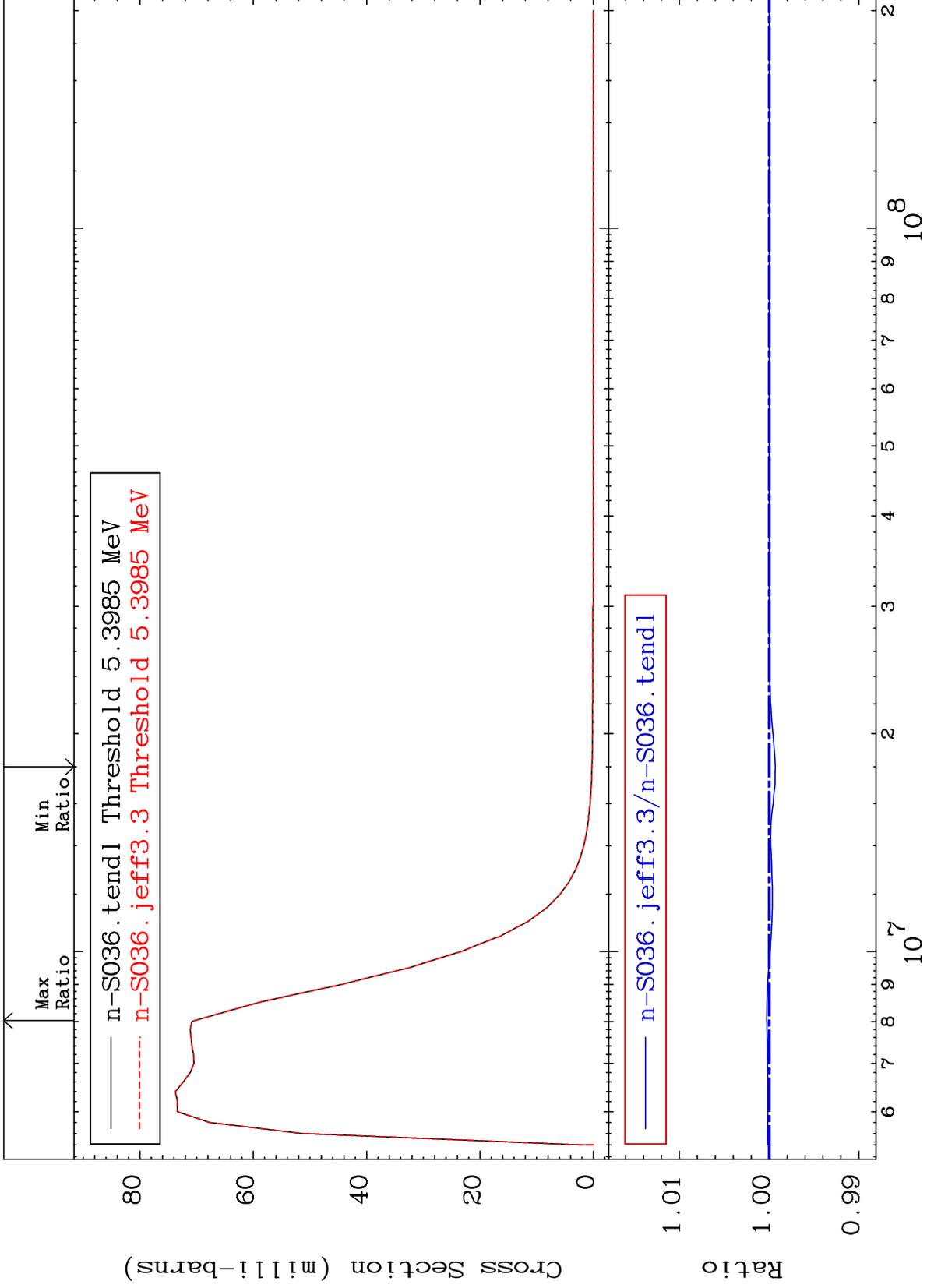
Incident Energy (eV)

16-S -36

MAT 1637

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

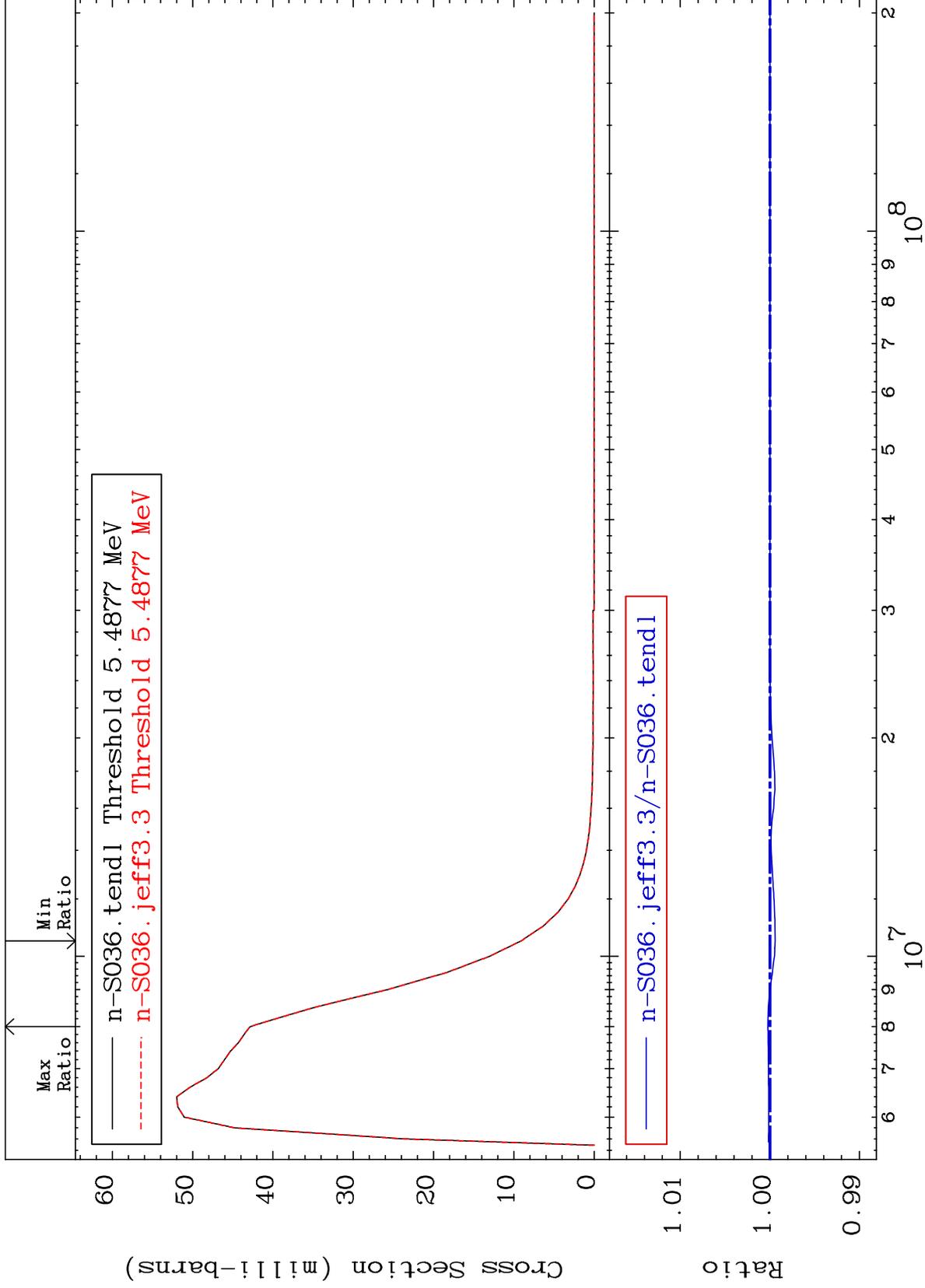
16-S -36  
-0.067 To 0.026 %



MAT 1637

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

16-S -36  
-0.059 To 0.022 %



27

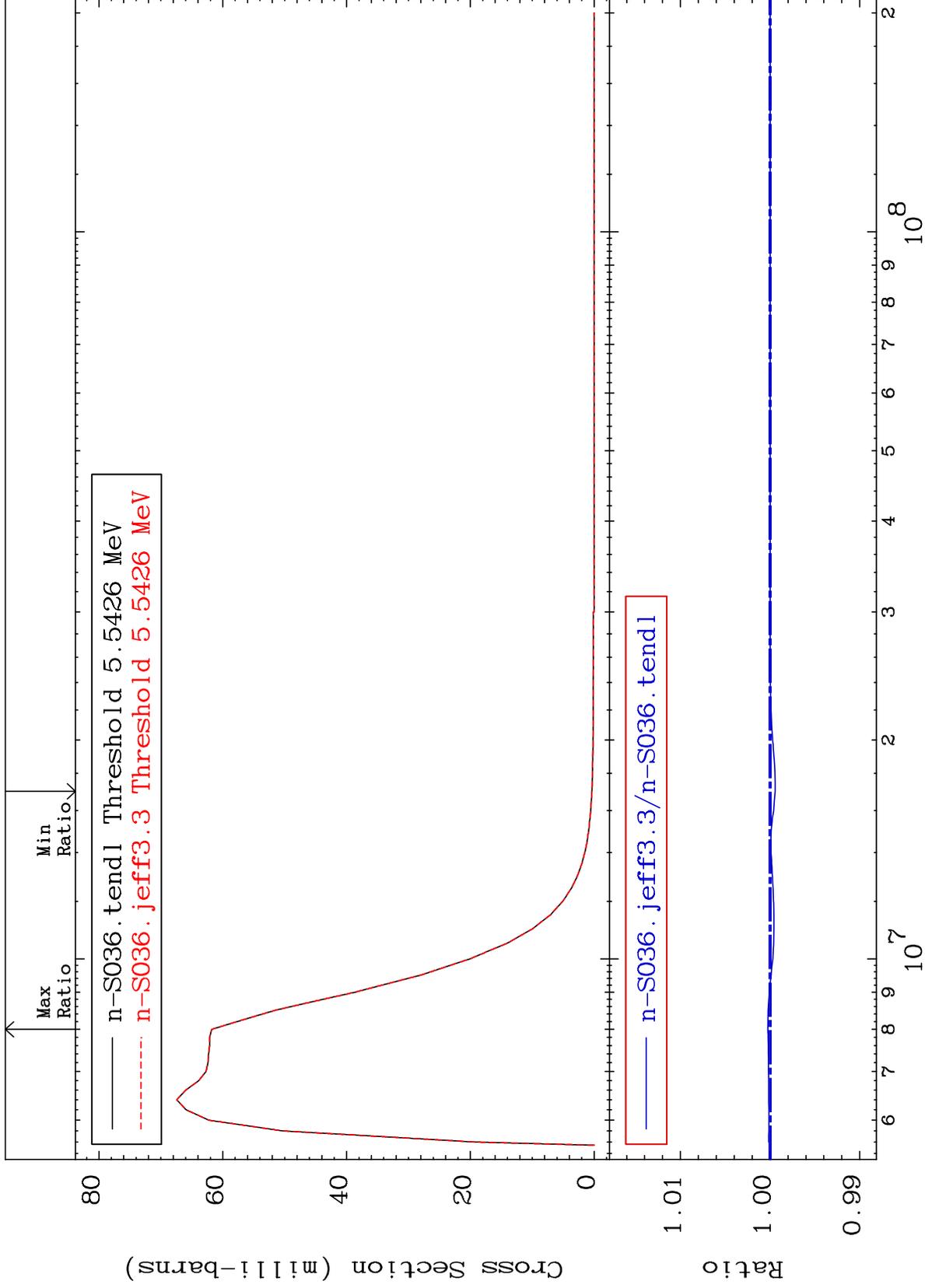
Incident Energy (eV)

16-S -36

MAT 1637

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

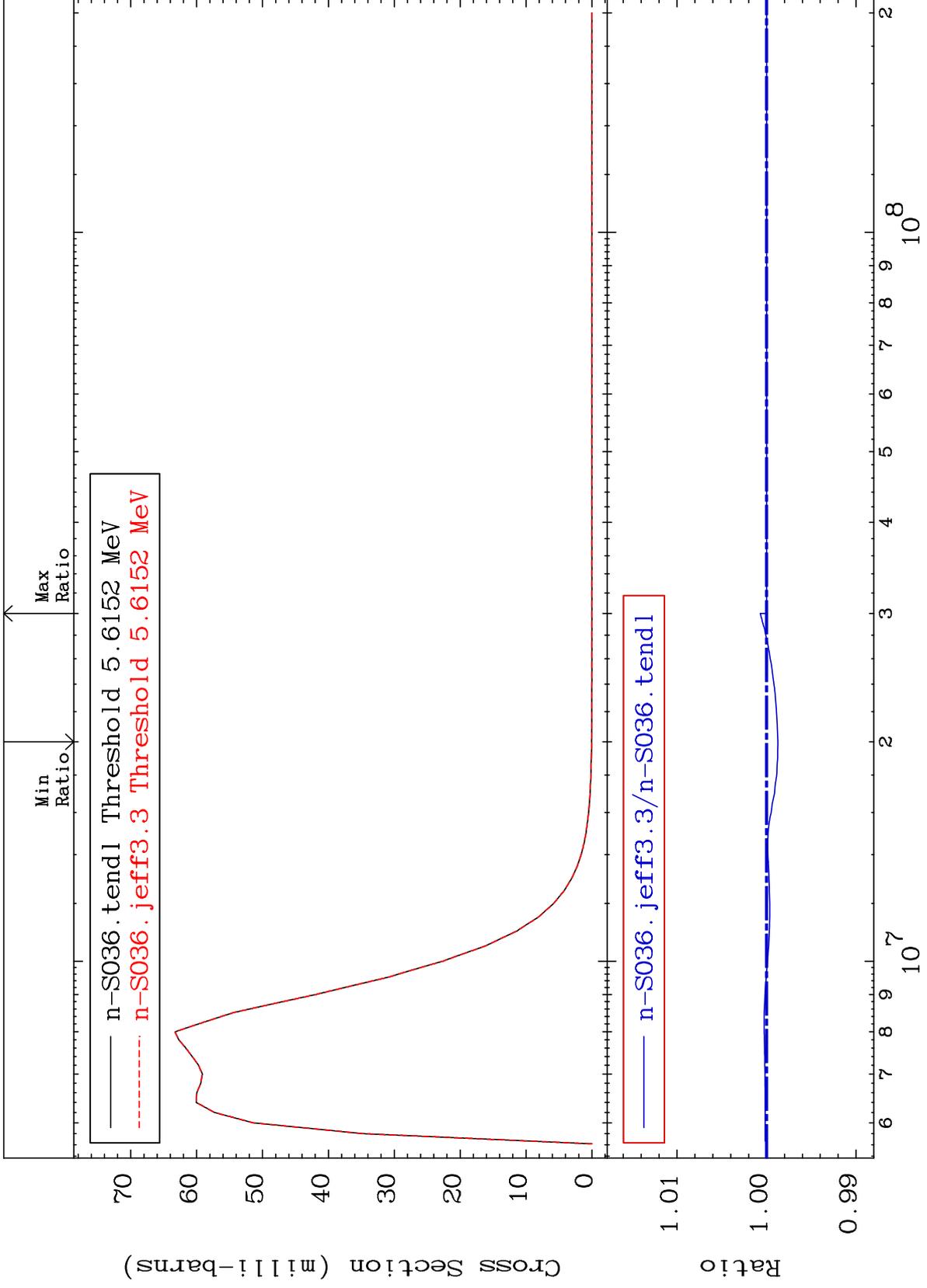
16-S -36  
-0.057 To 0.025 %



MAT 1637

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

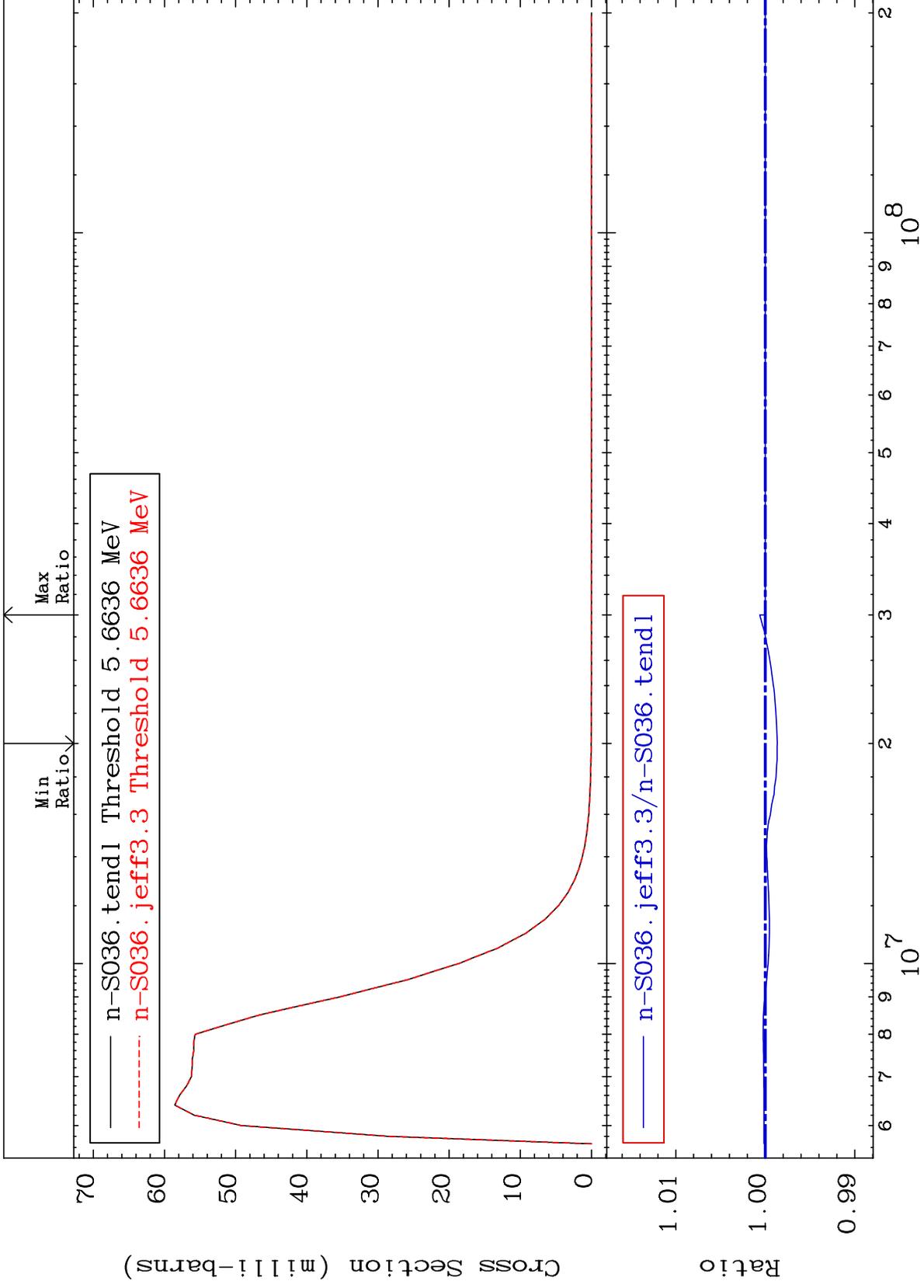
16-S -36  
-0.126 To 0.070 %



MAT 1637

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

16-S -36  
-0.134 To 0.061 %



30

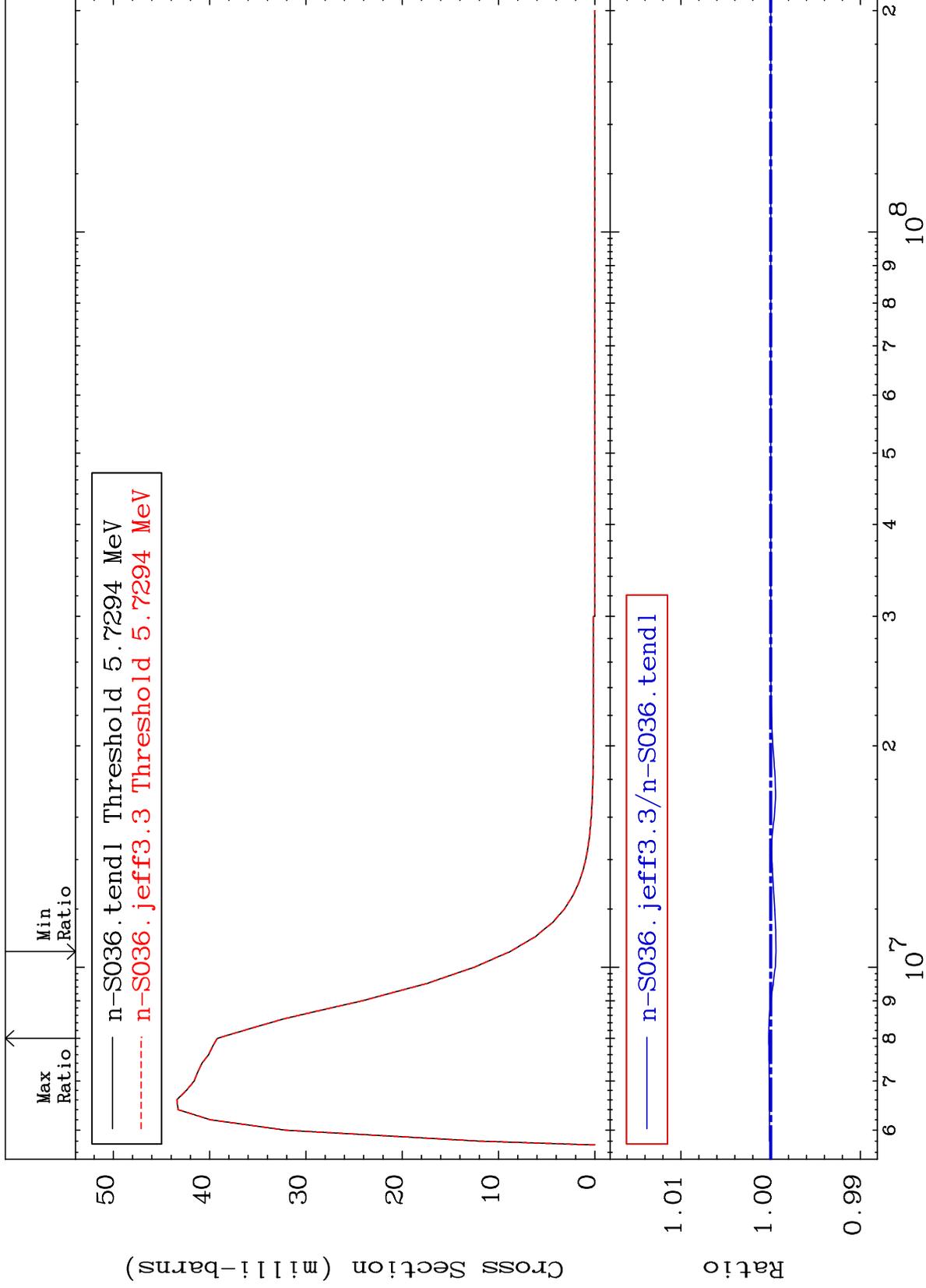
Incident Energy (eV)

16-S -36

MAT 1637

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

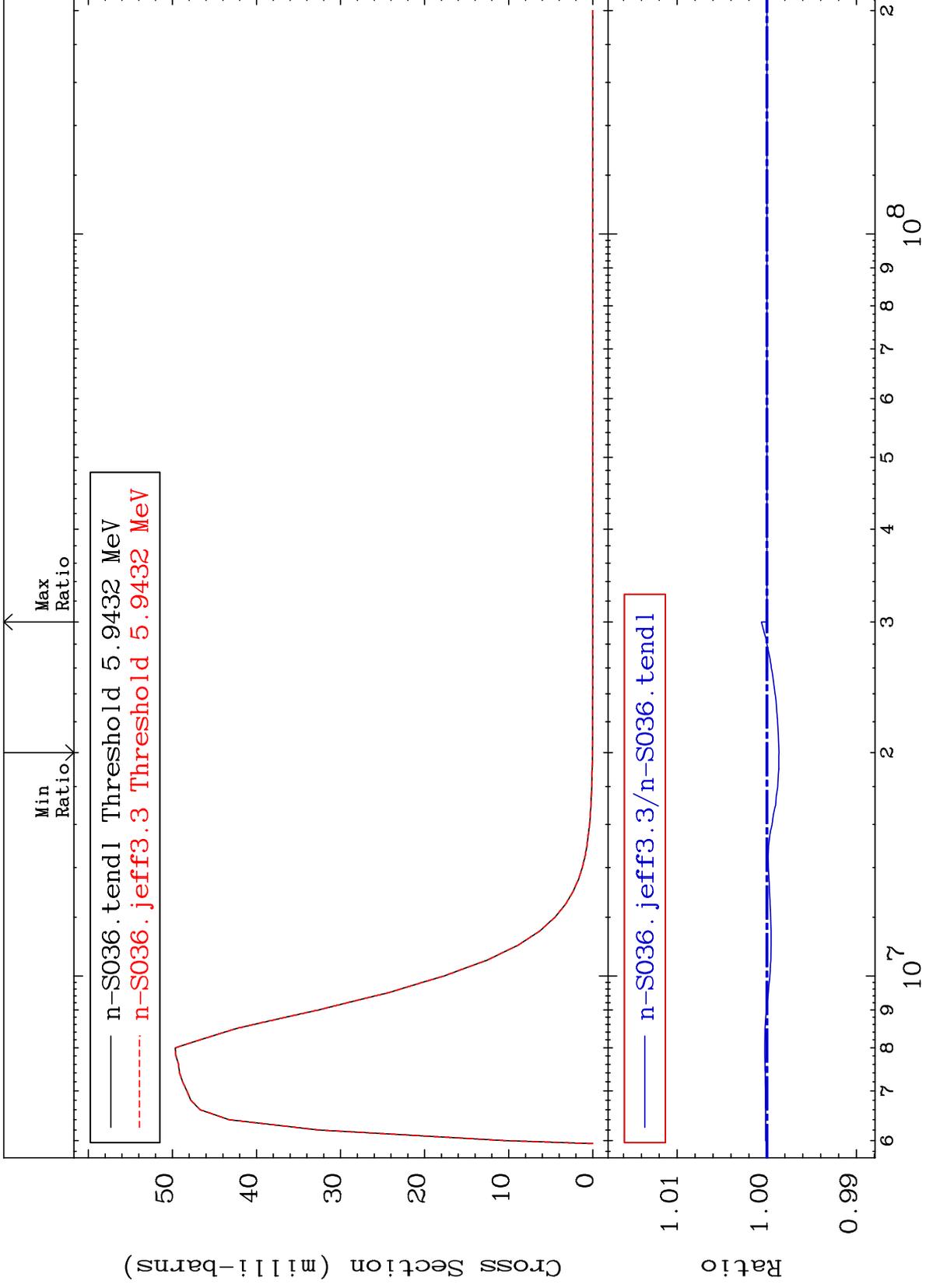
16-S -36  
-0.060 To 0.022 %



MAT 1637

MT= 64 (n, n') Level  
Cross Section

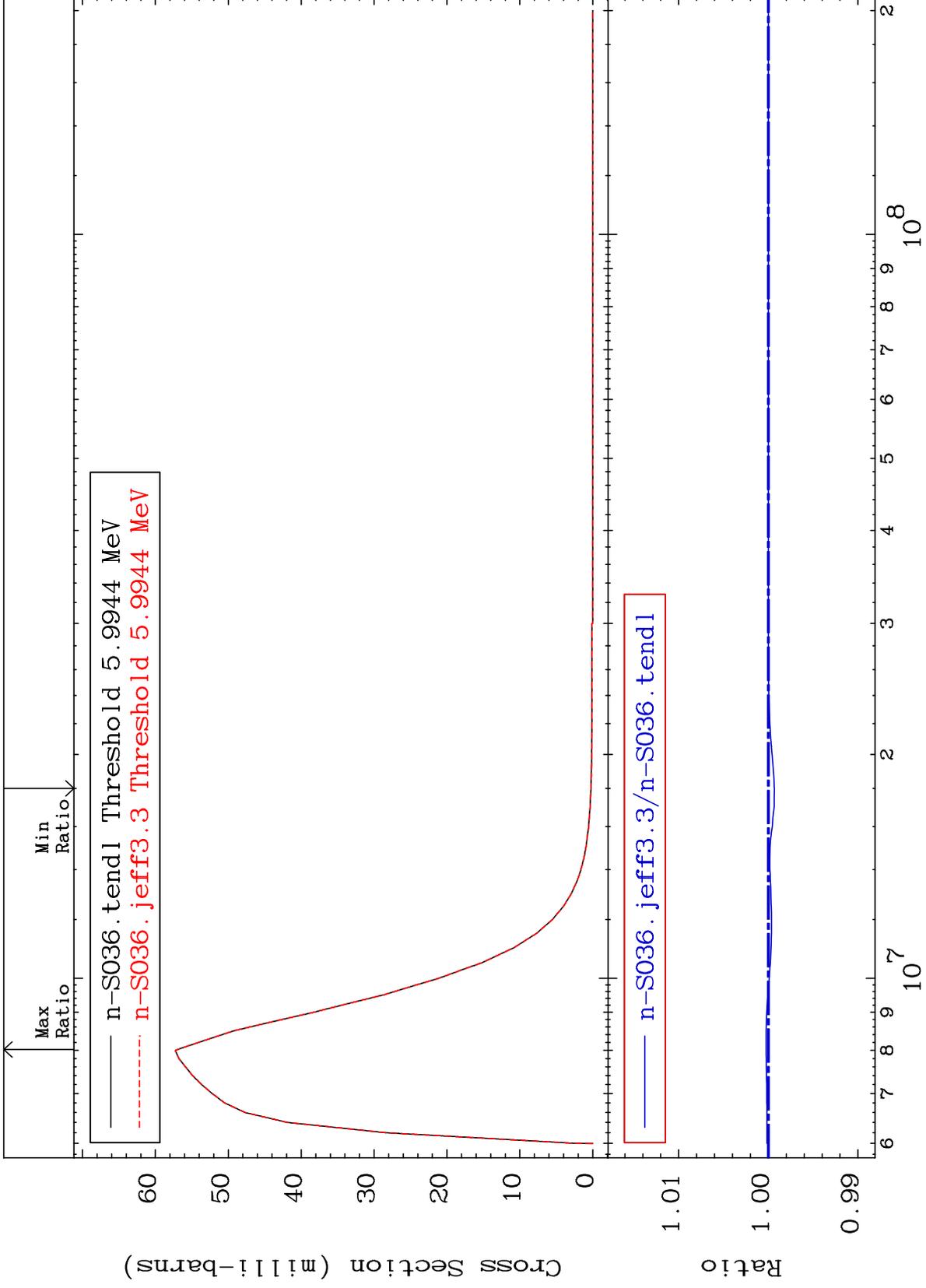
16-S -36  
-0.134 To 0.061 %



32

Incident Energy (eV)

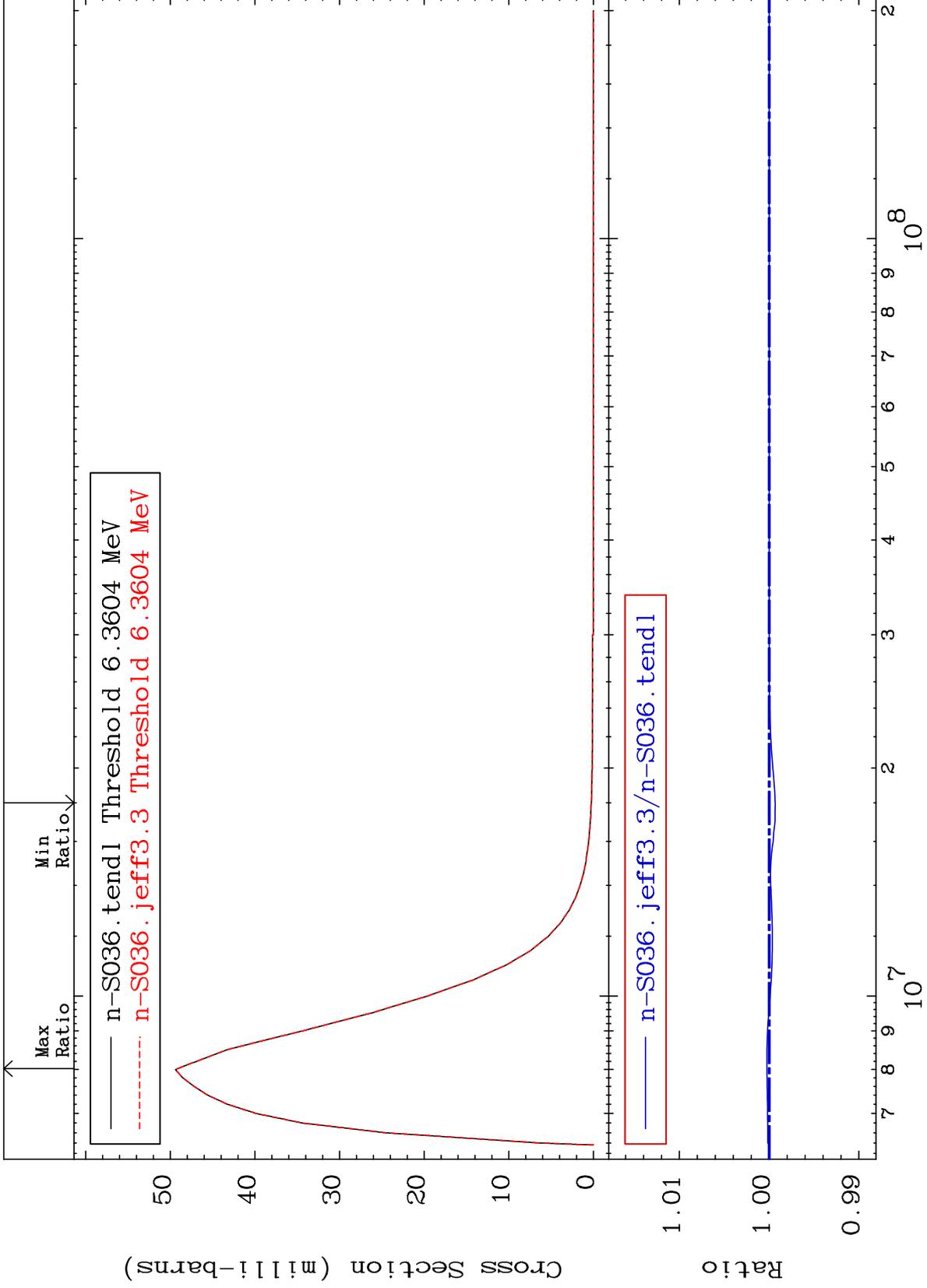
16-S -36



MAT 1637

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

16-S -36  
-0.067 To 0.026 %



34

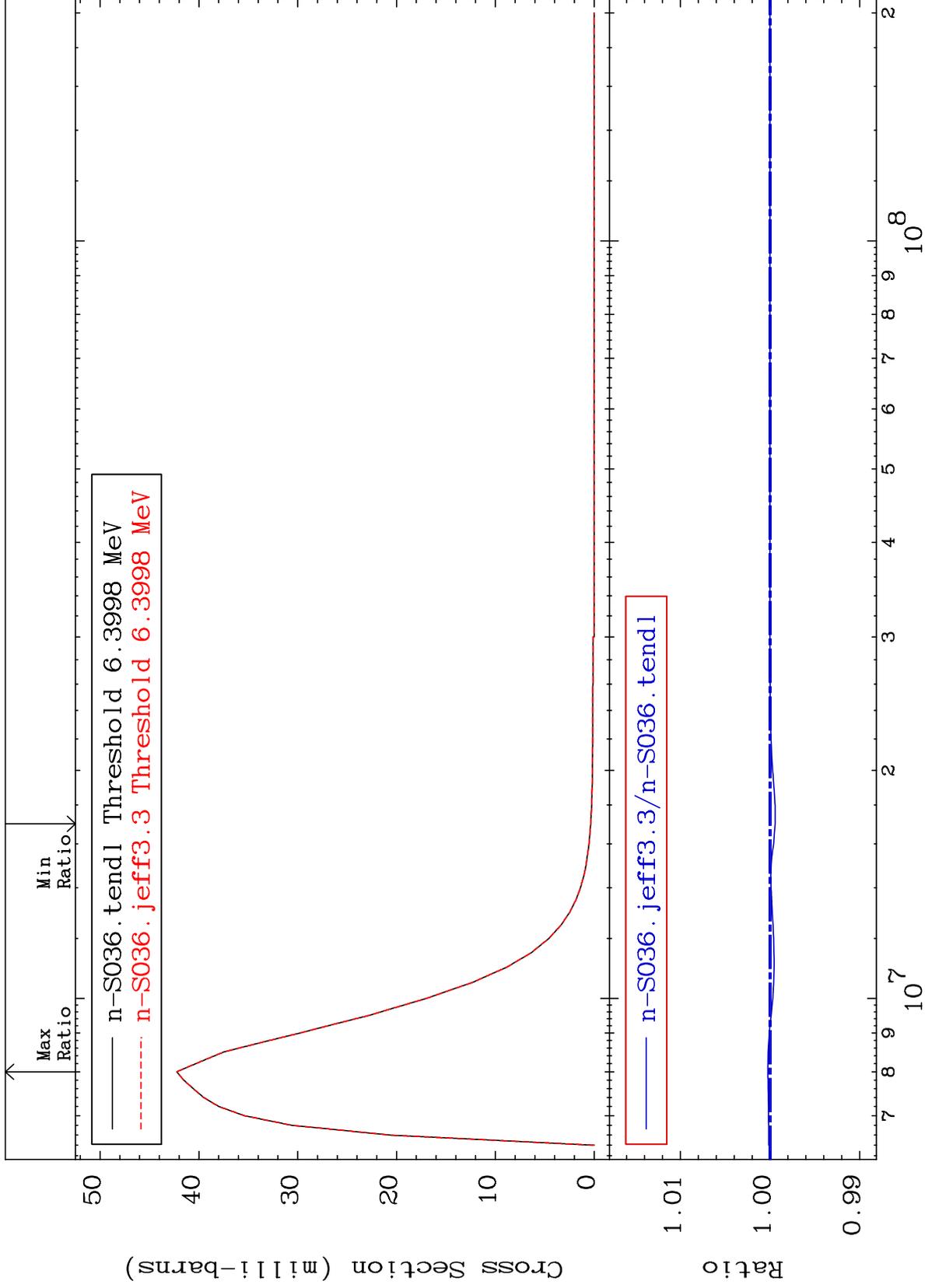
Incident Energy (eV)

16-S -36

MAT 1637

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

16-S -36  
-0.058 To 0.025 %



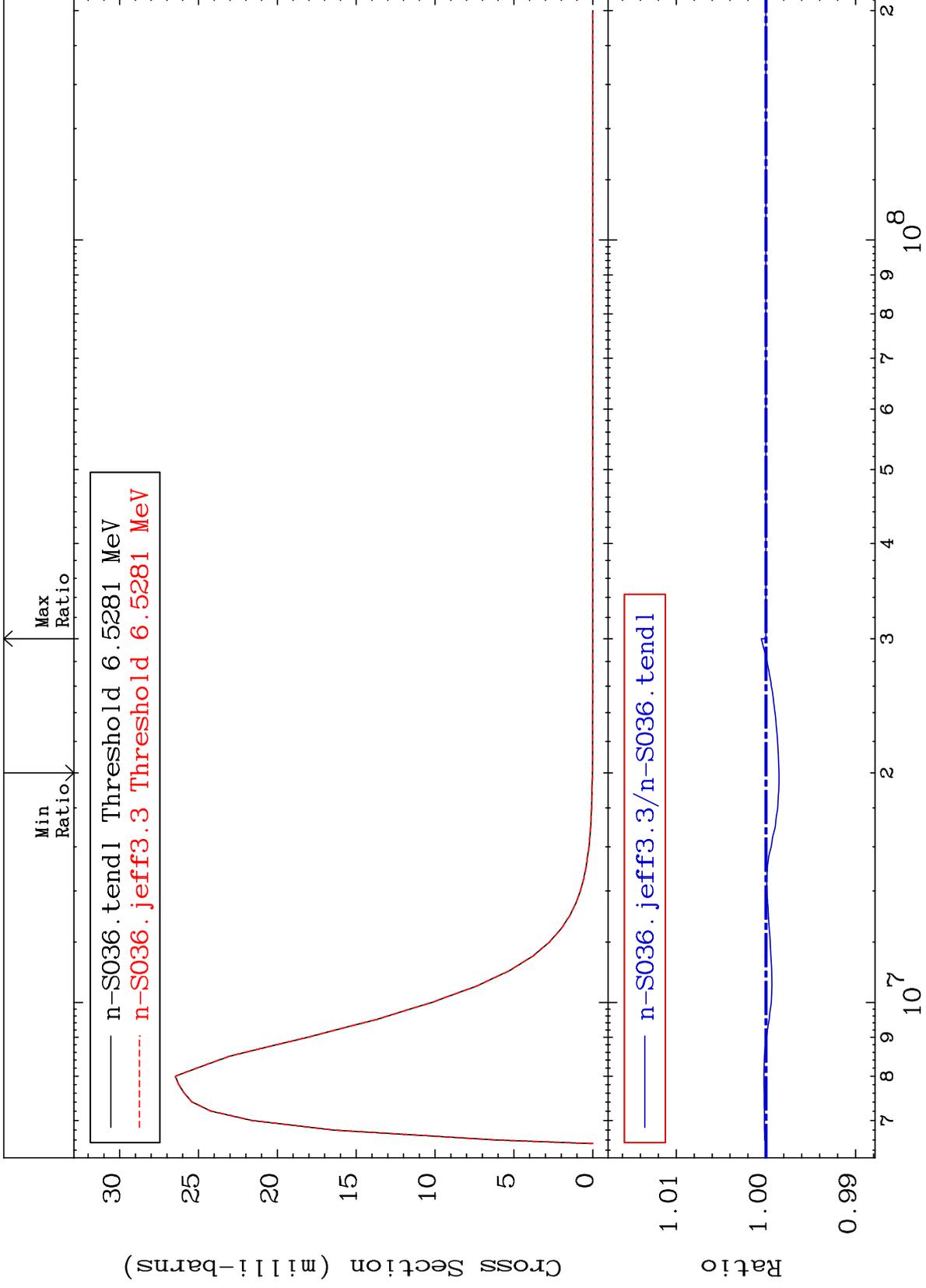
35

16-S -36

MAT 1637

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

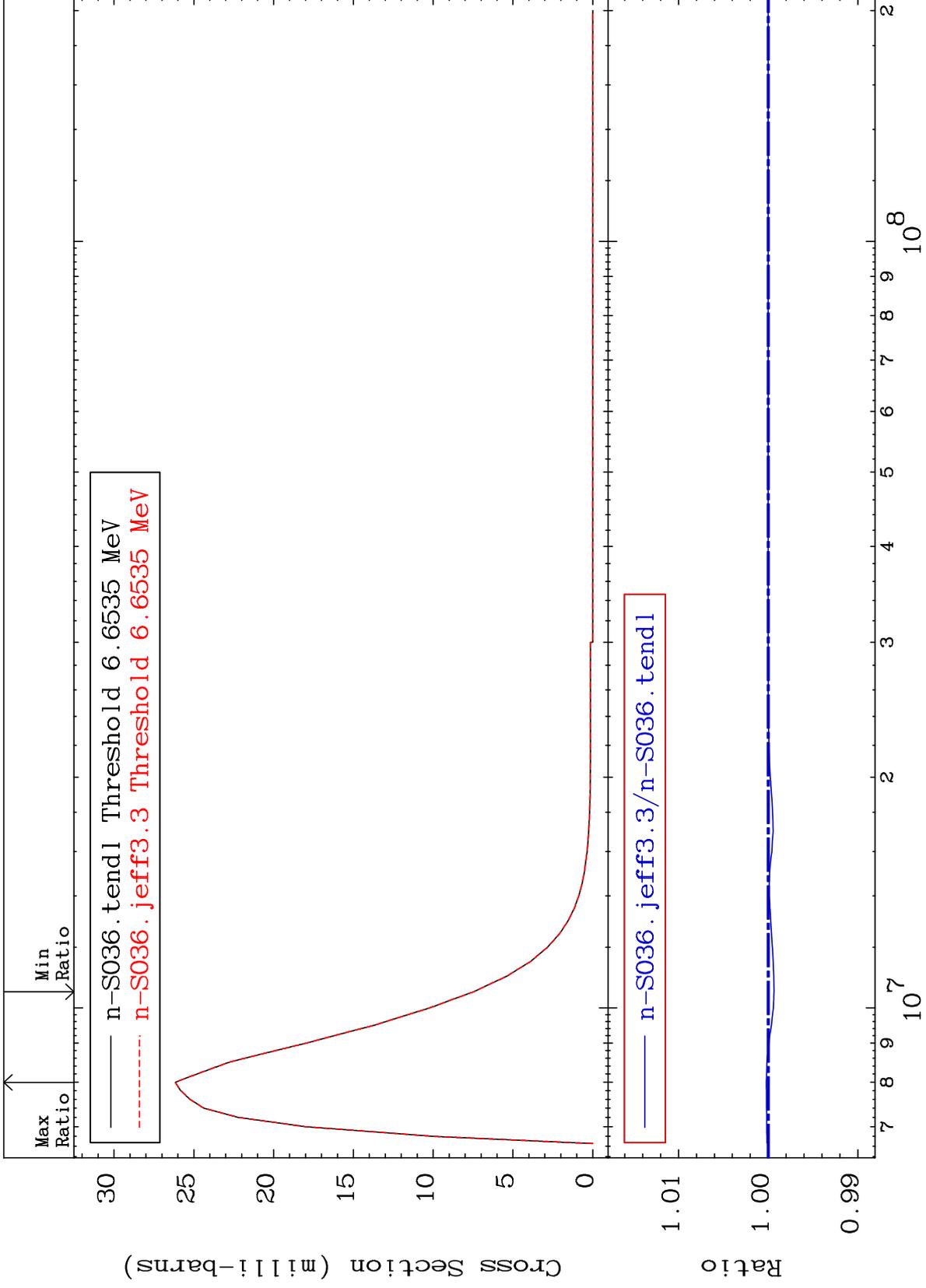
16-S -36  
-0.146 To 0.052 %



36

Incident Energy (eV)

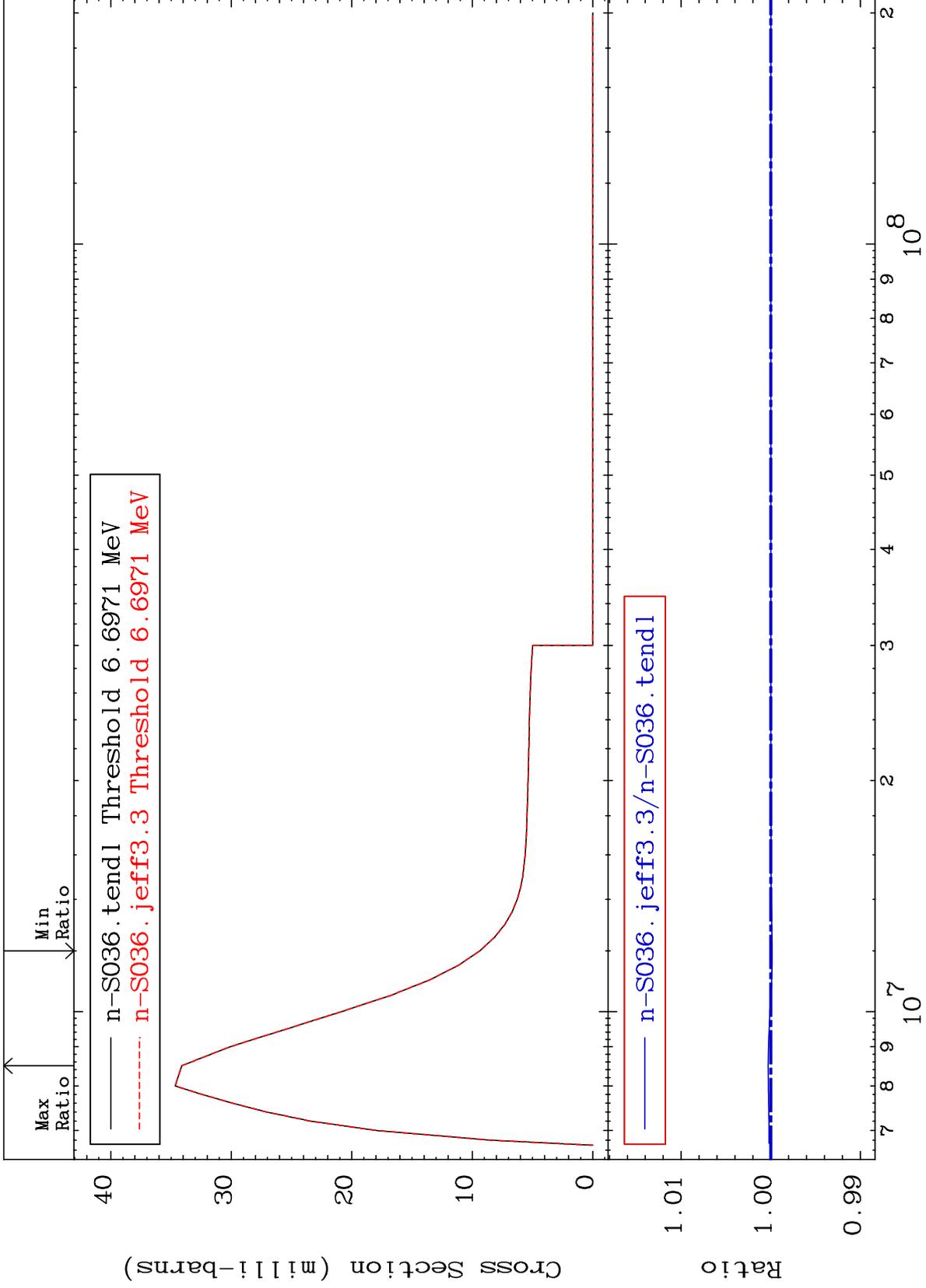
16-S -36



MAT 1637

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

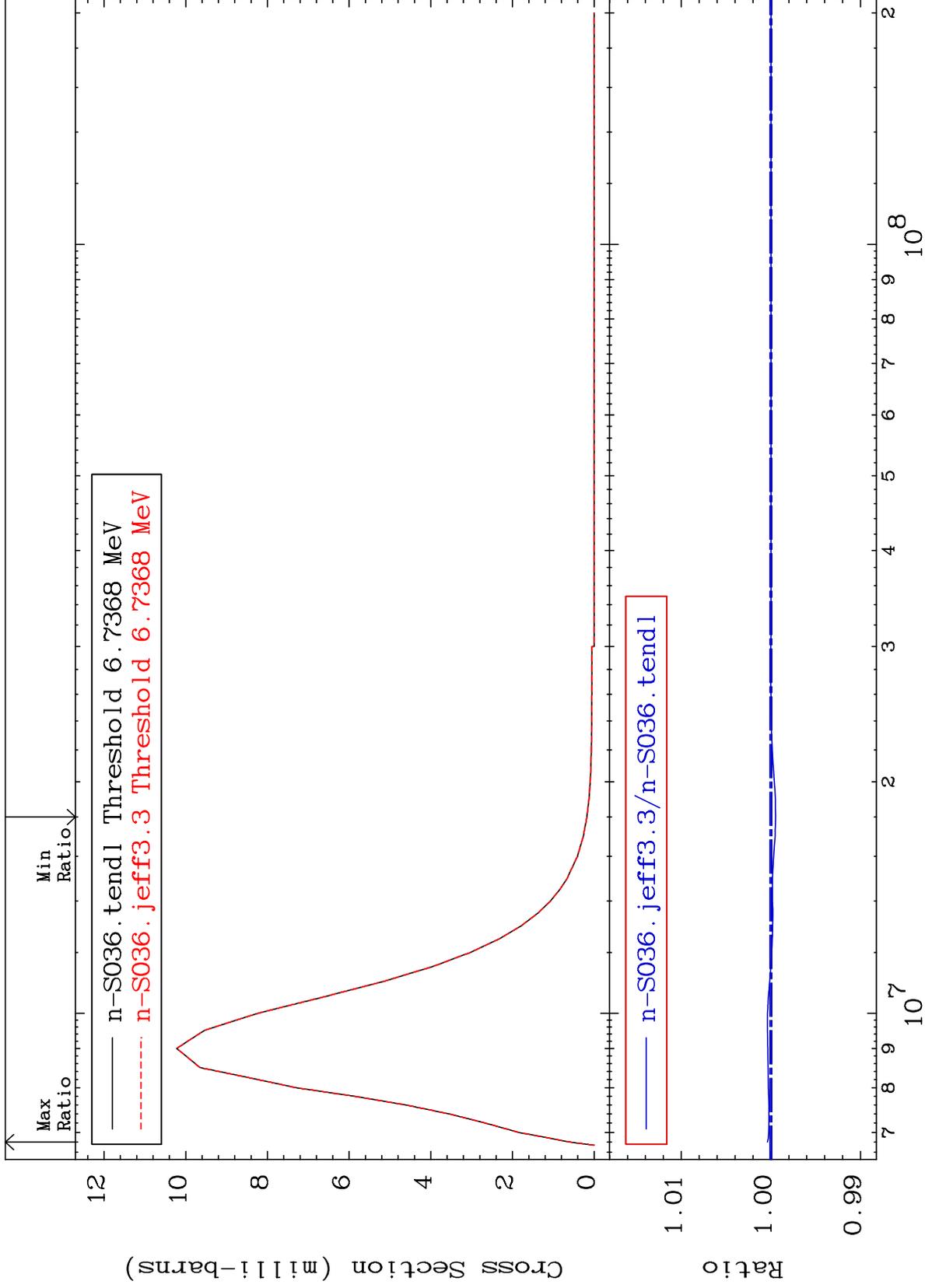
16-S -36  
-0.015 To 0.029 %



MAT 1637

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

16-S -36  
-0.052 To 0.038 %



39

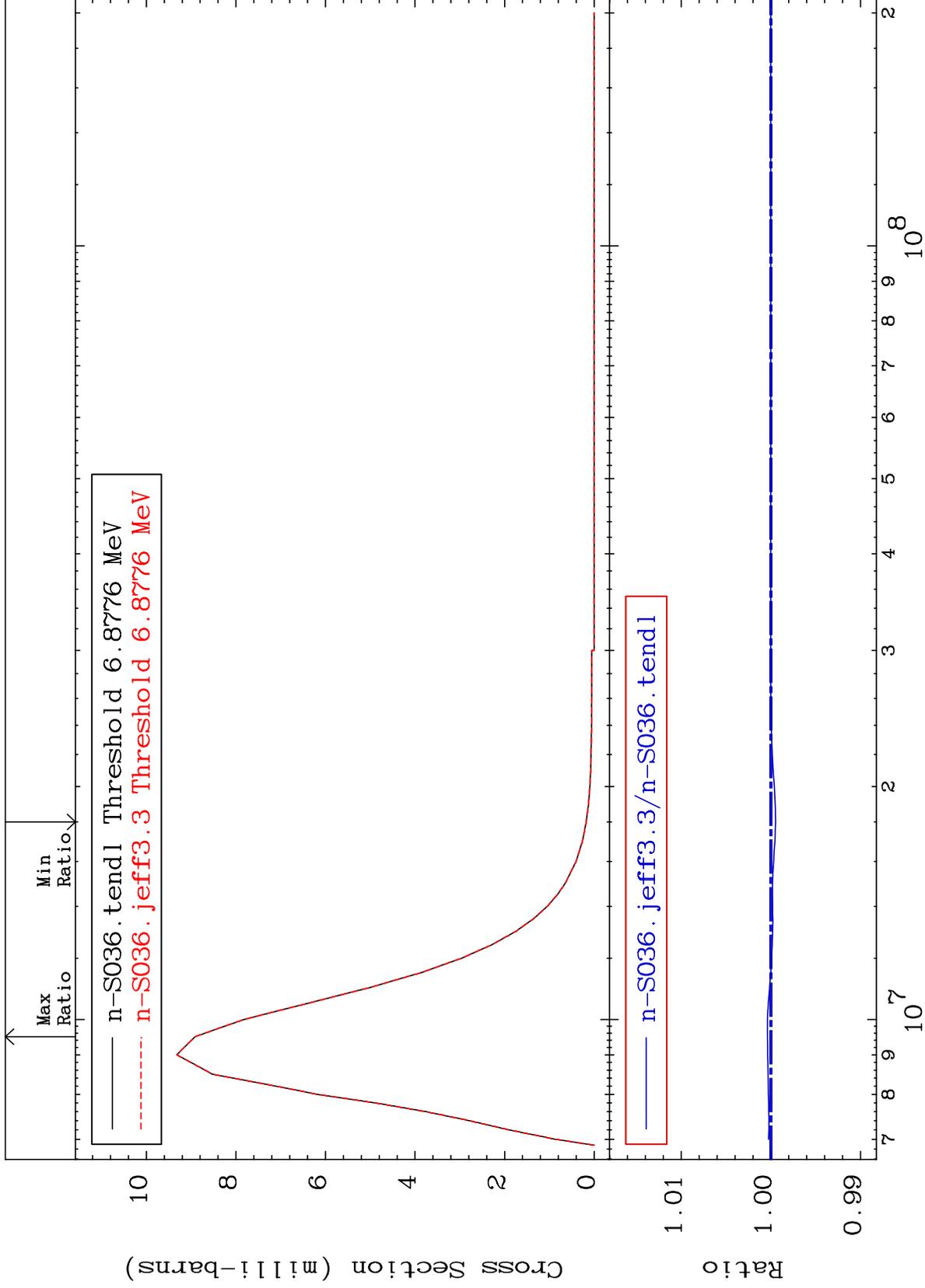
Incident Energy (eV)

16-S -36

MAT 1637

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

16-S -36  
-0.053 To 0.038 %



40

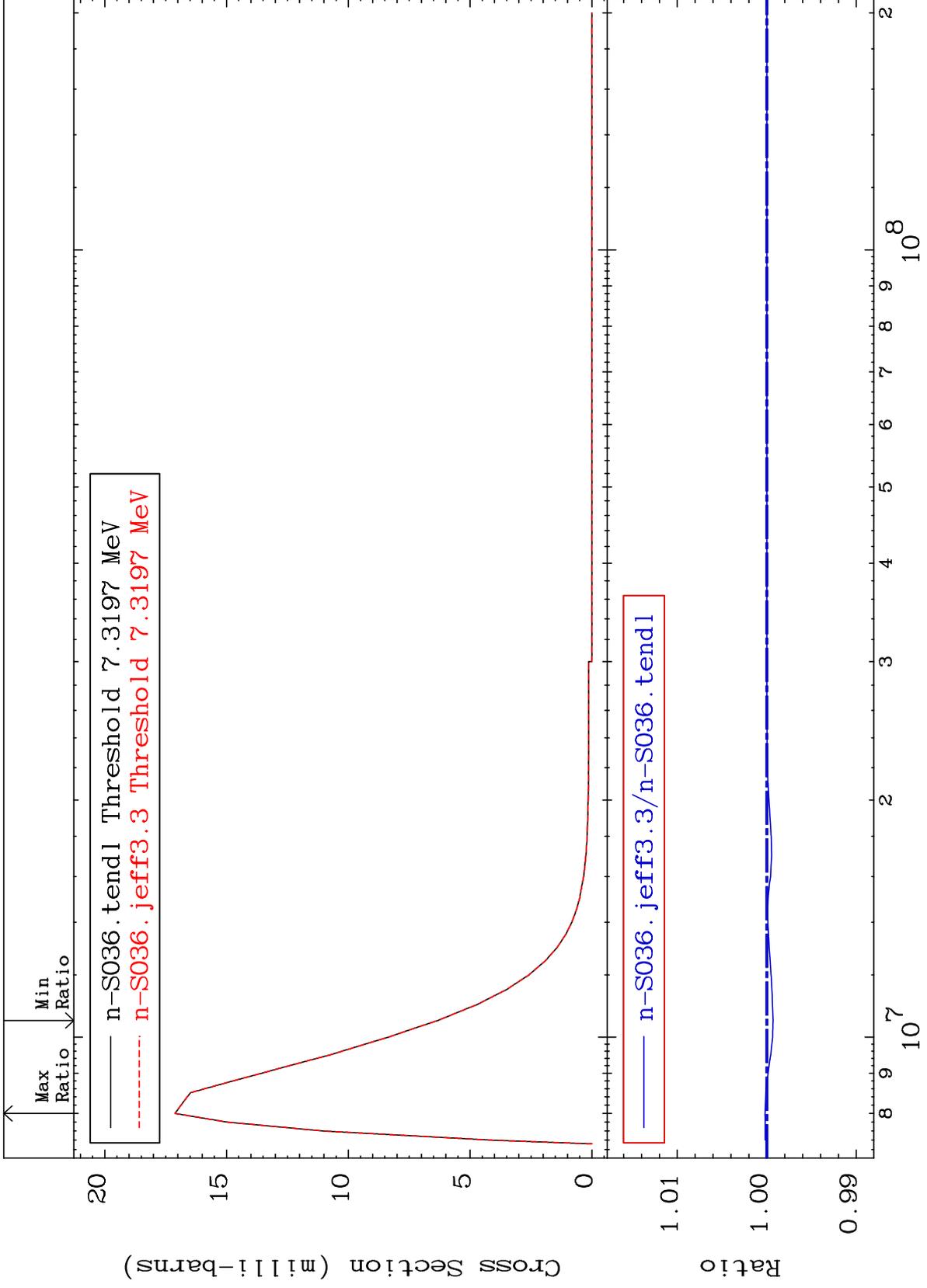
Incident Energy (eV)

16-S -36

MAT 1637

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

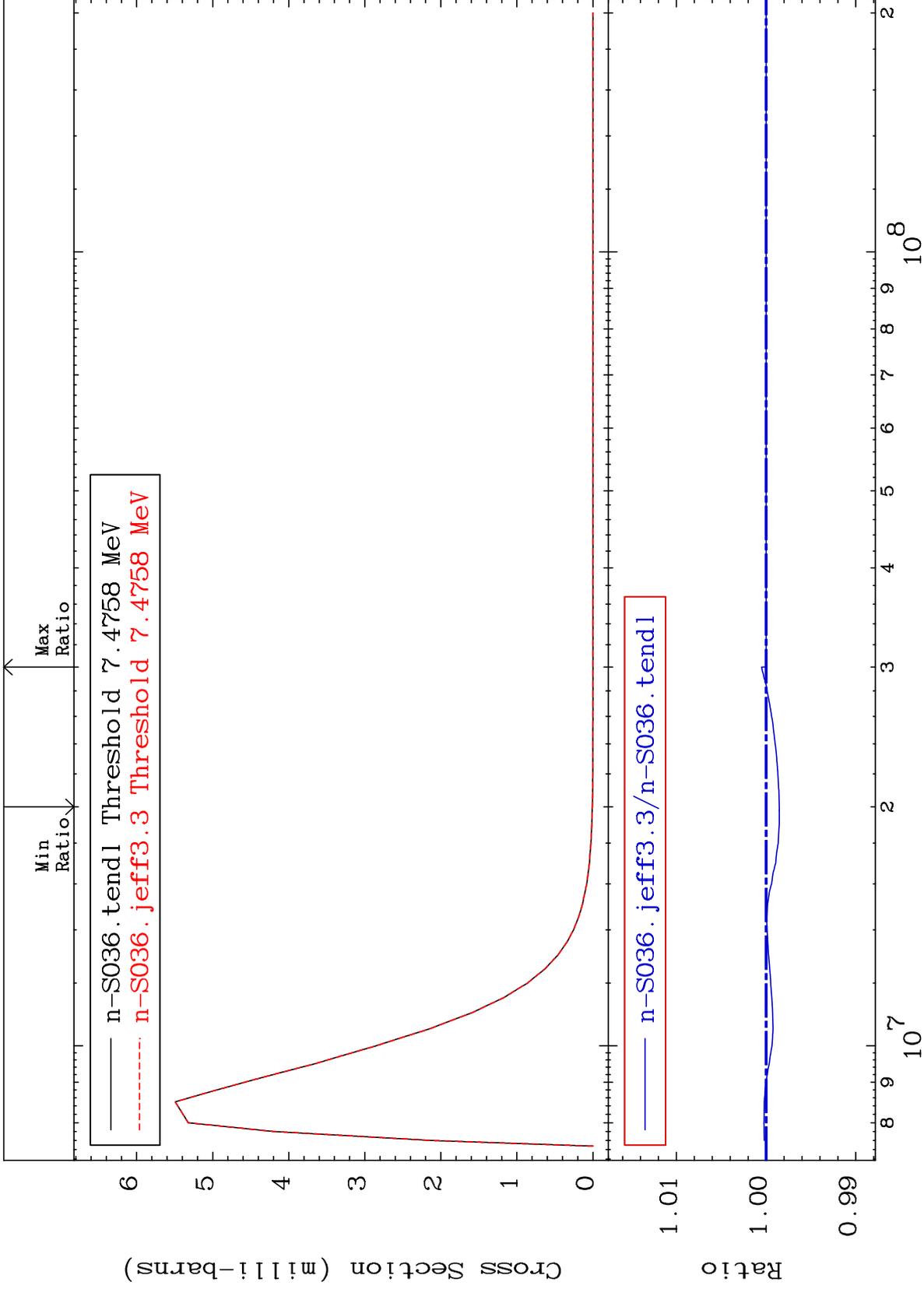
16-S -36  
-0.069 To 0.020 %



MAT 1637

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

16-S -36  
-0.148 To 0.051 %



42

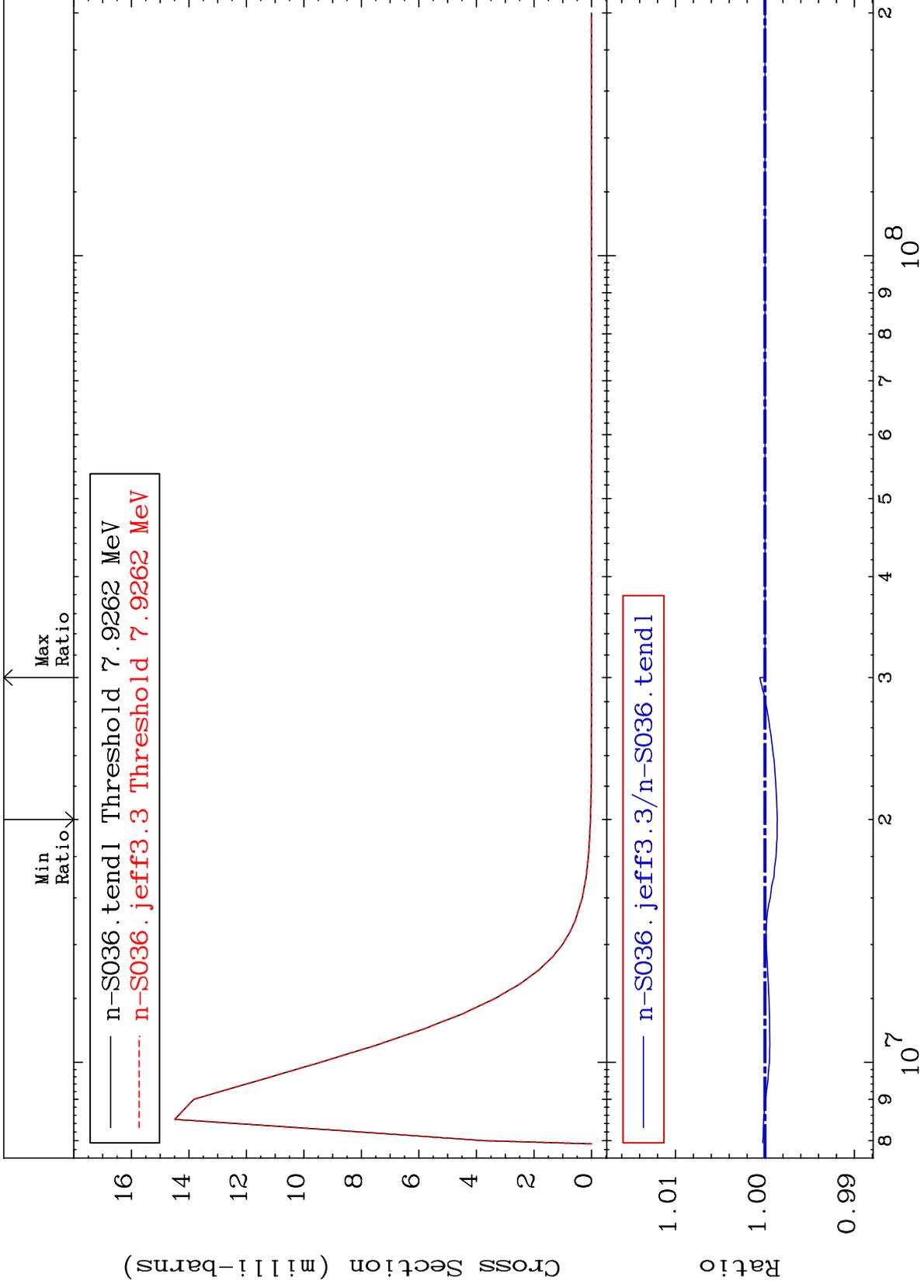
Incident Energy (eV)

16-S -36

MAT 1637

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

16-S -36  
-0.137 To 0.058 %



43

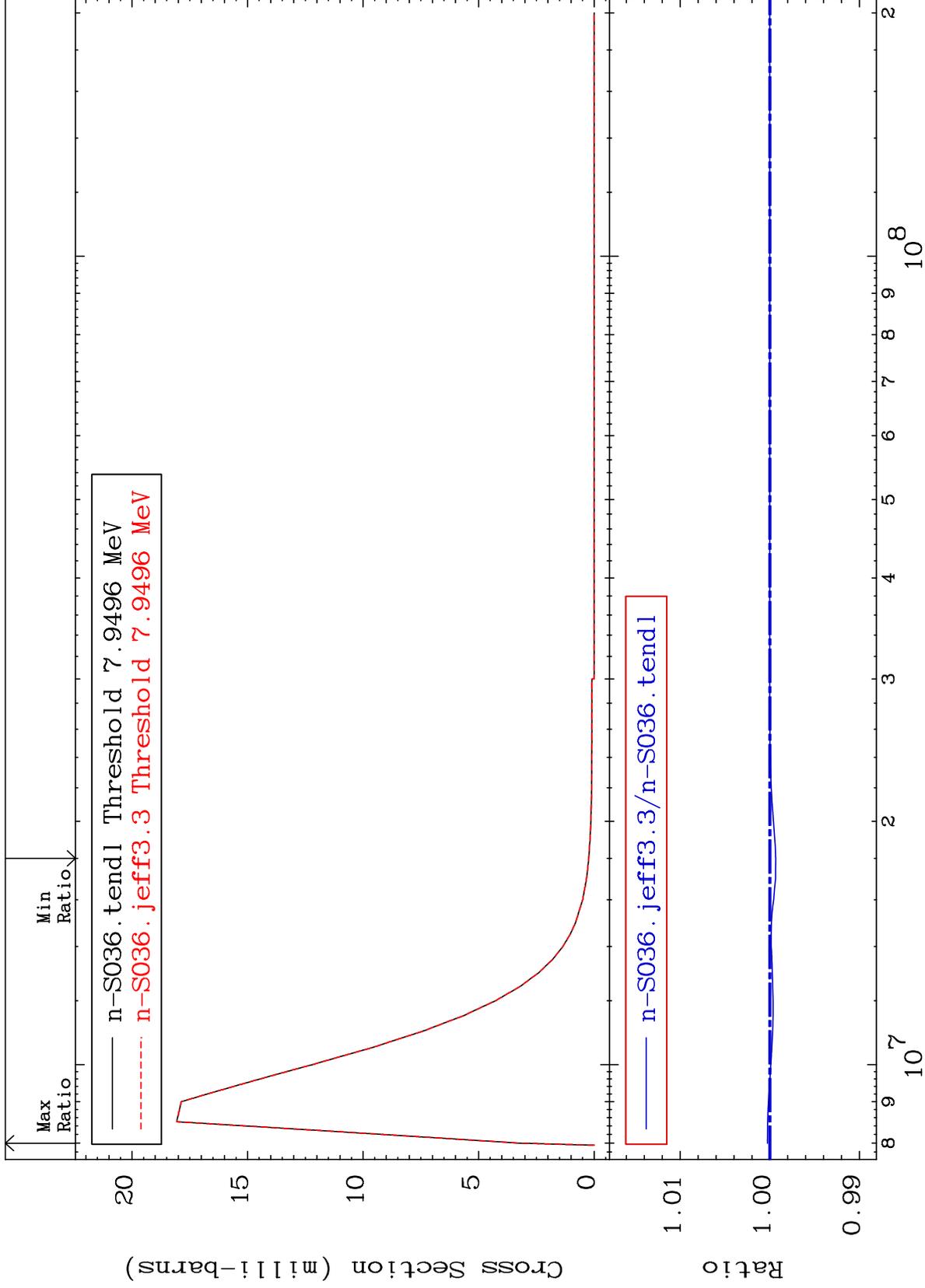
Incident Energy (eV)

16-S -36

MAT 1637

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

16-S -36  
-0.066 To 0.028 %



44

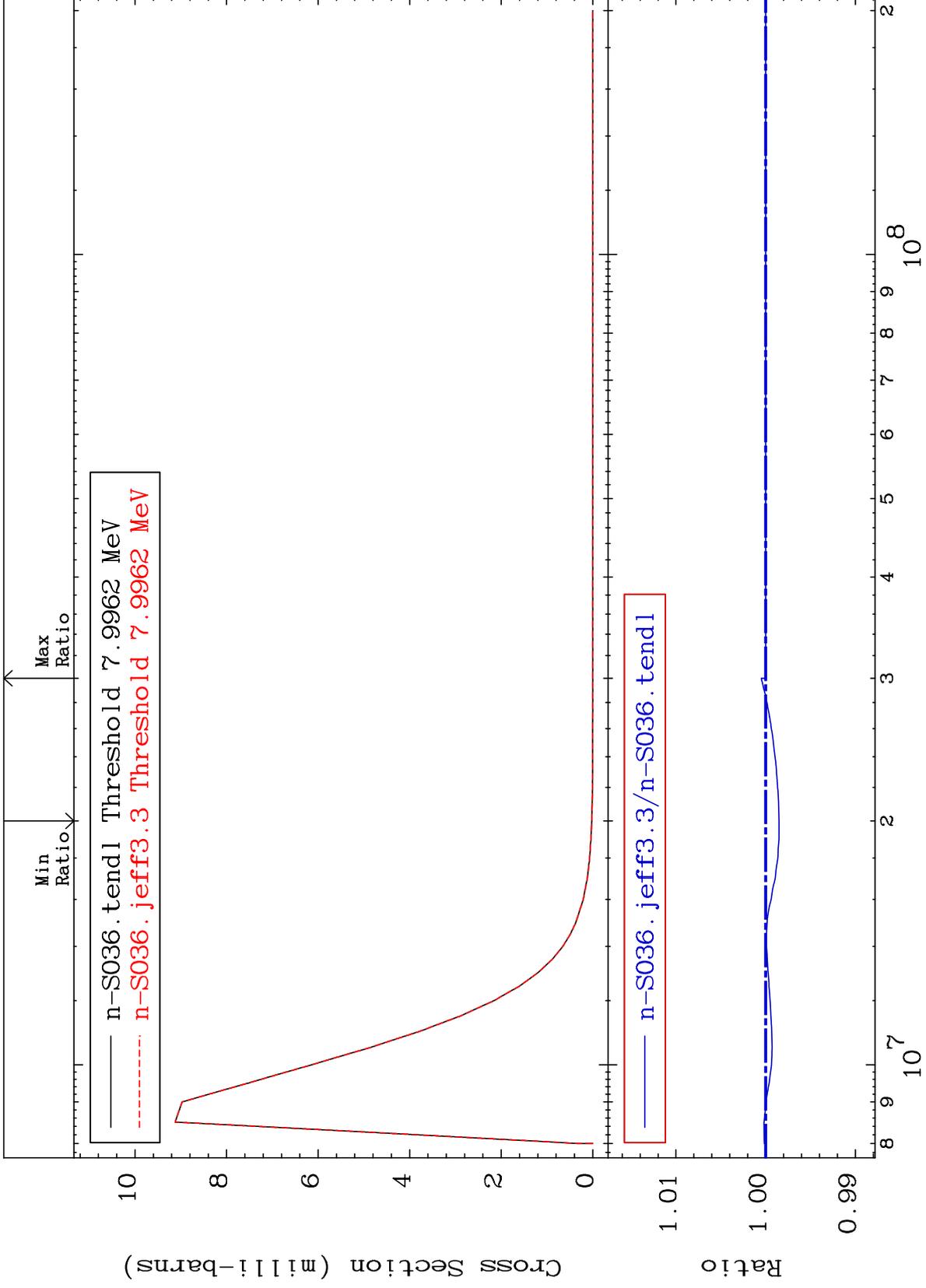
Incident Energy (eV)

16-S -36

MAT 1637

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

16-S -36  
-0.149 To 0.049 %



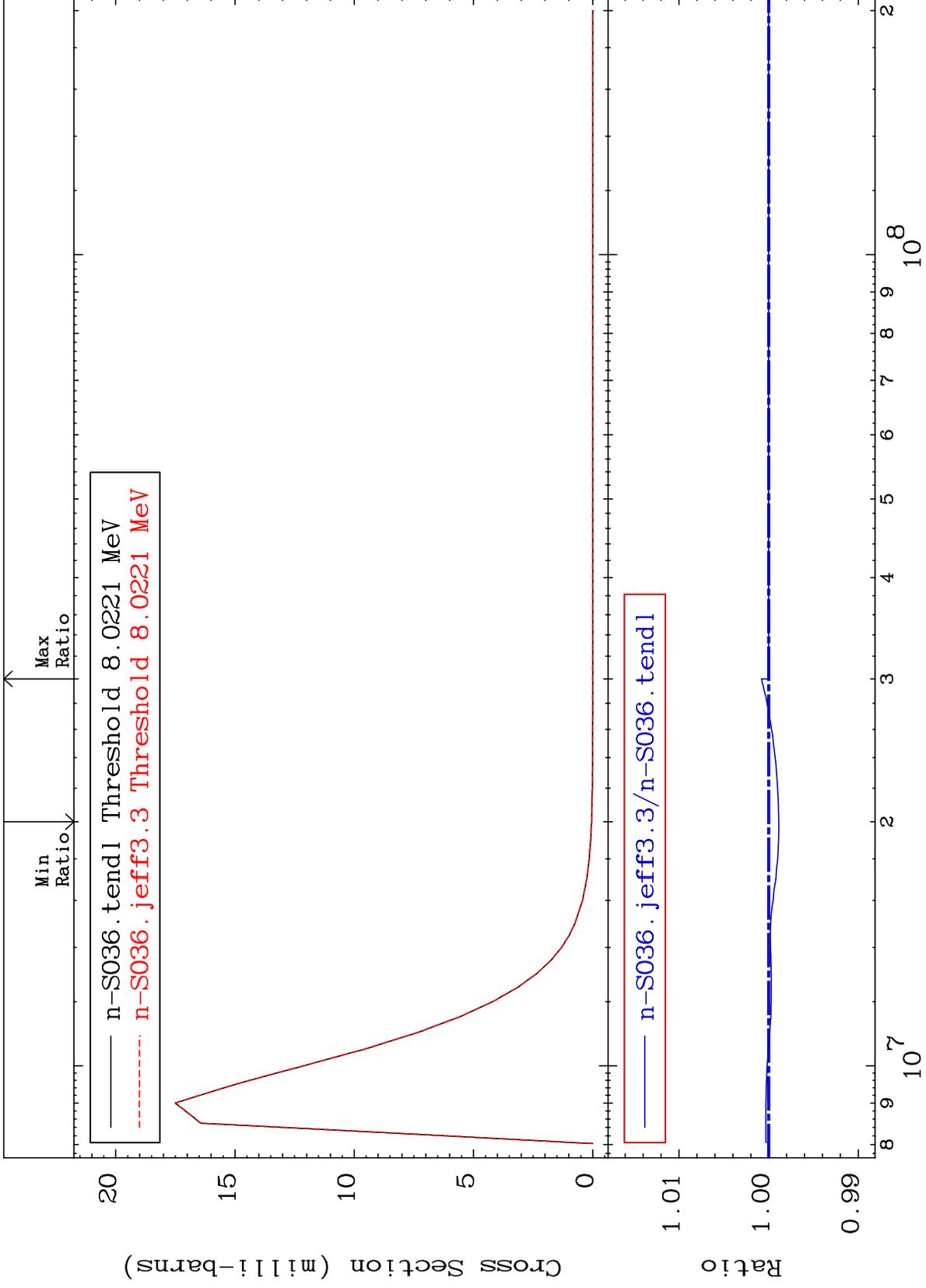
45

16-S -36

MAT 1637

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

16-S -36  
-0.114 To 0.080 %



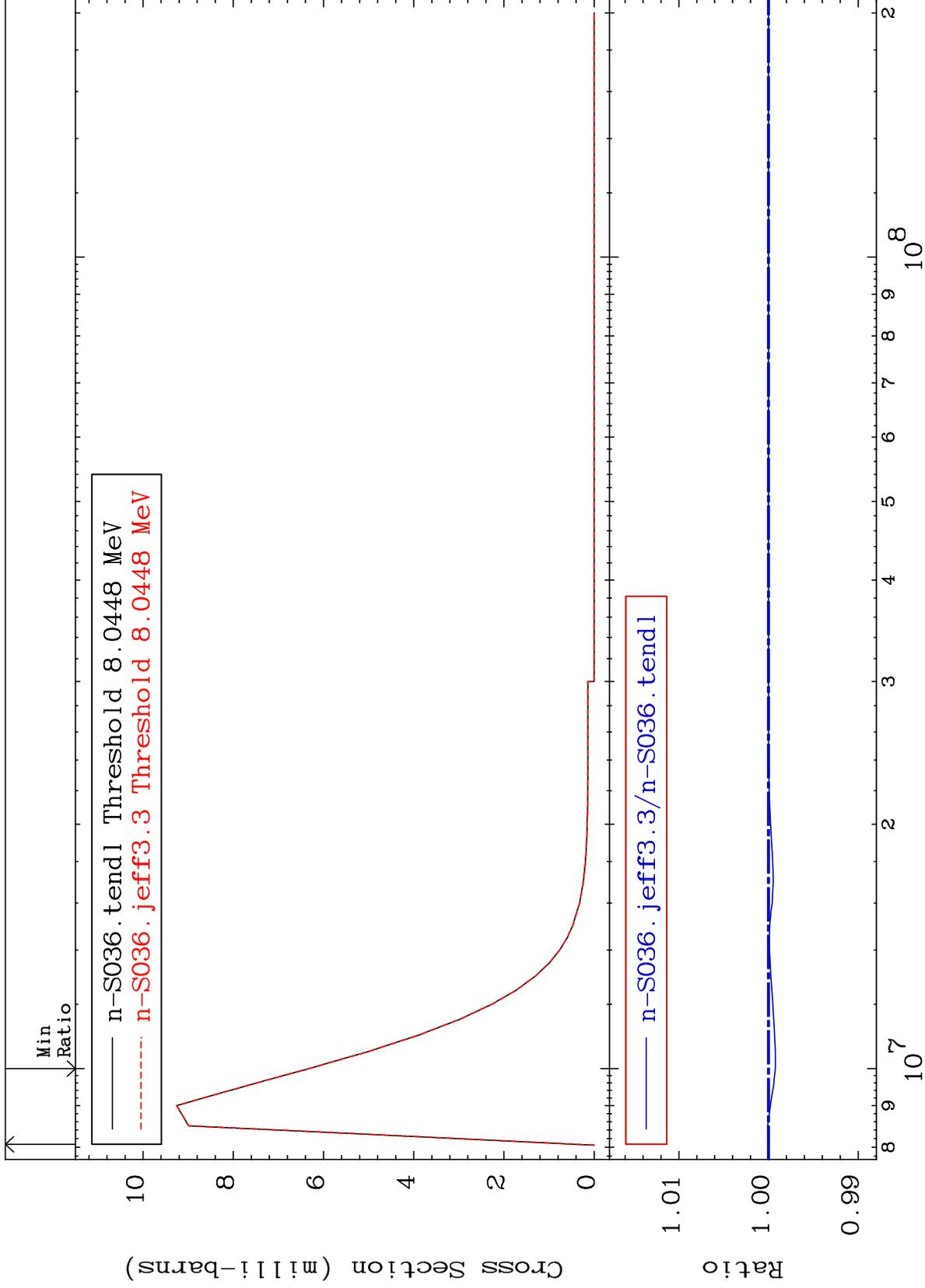
46

16-S -36

MAT 1637

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

16-S -36  
-0.077 To 0.010 %



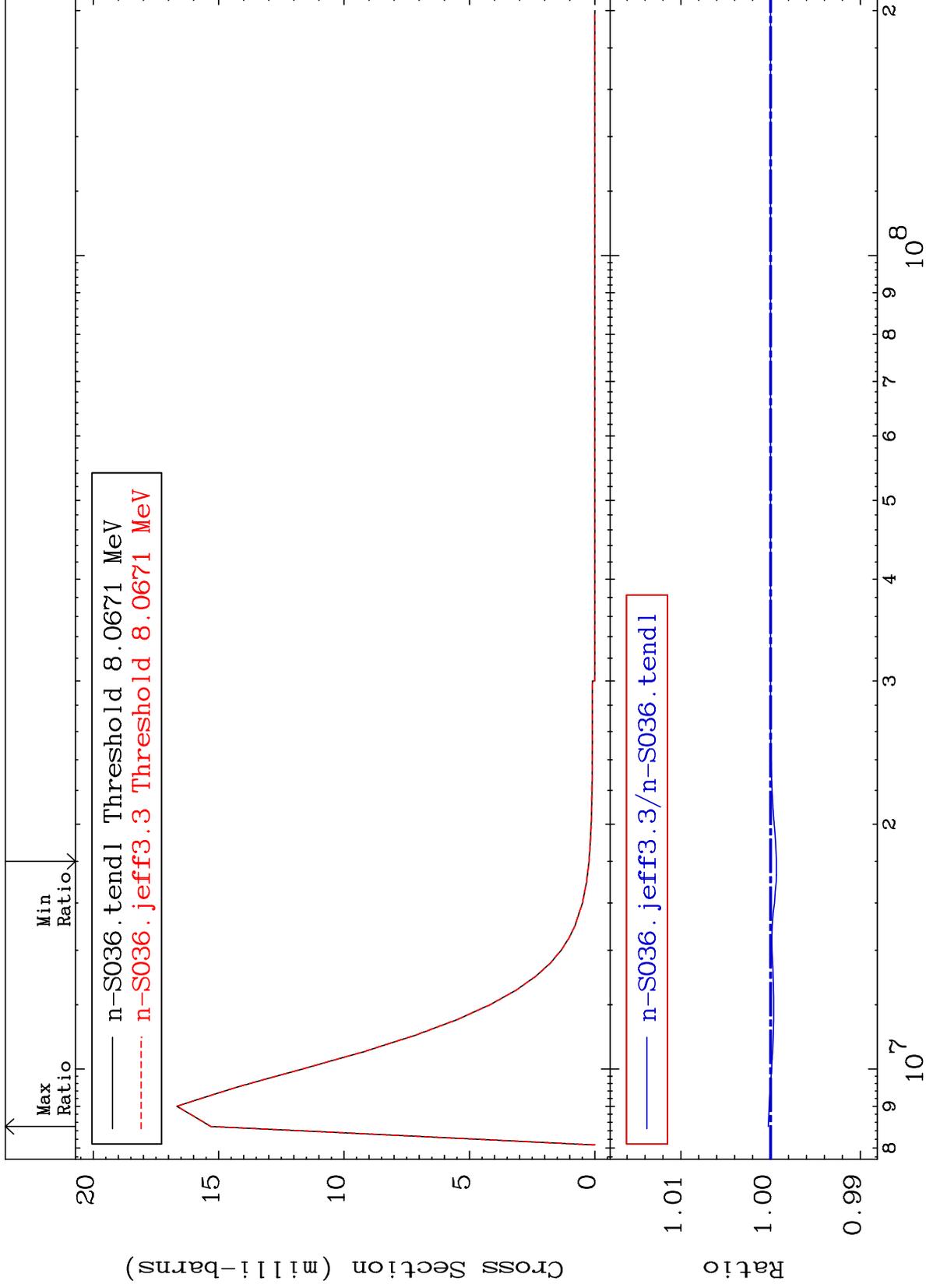
47

16-S -36

MAT 1637

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

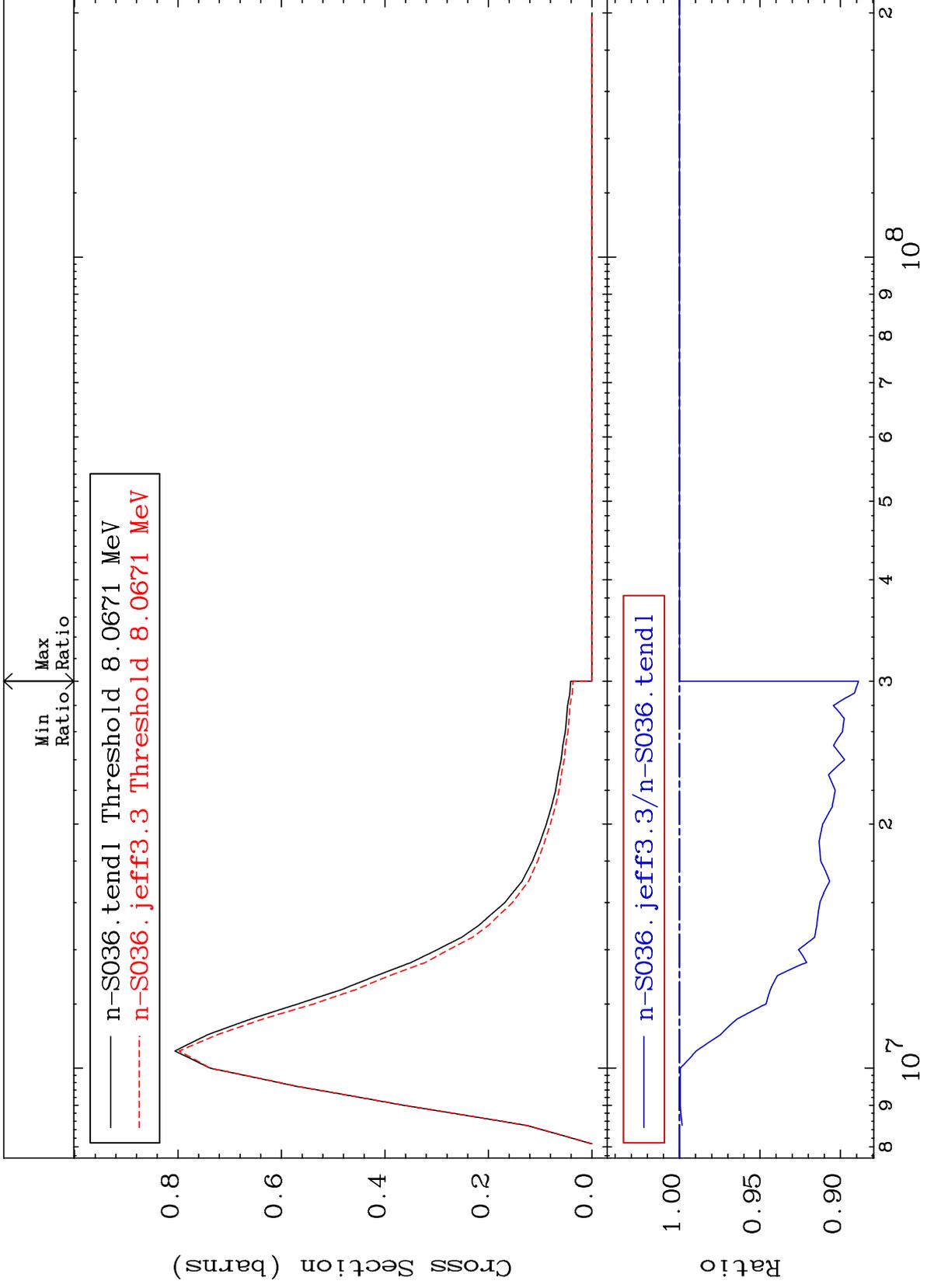
16-S -36  
-0.065 To 0.025 %



48

Incident Energy (eV)

16-S -36

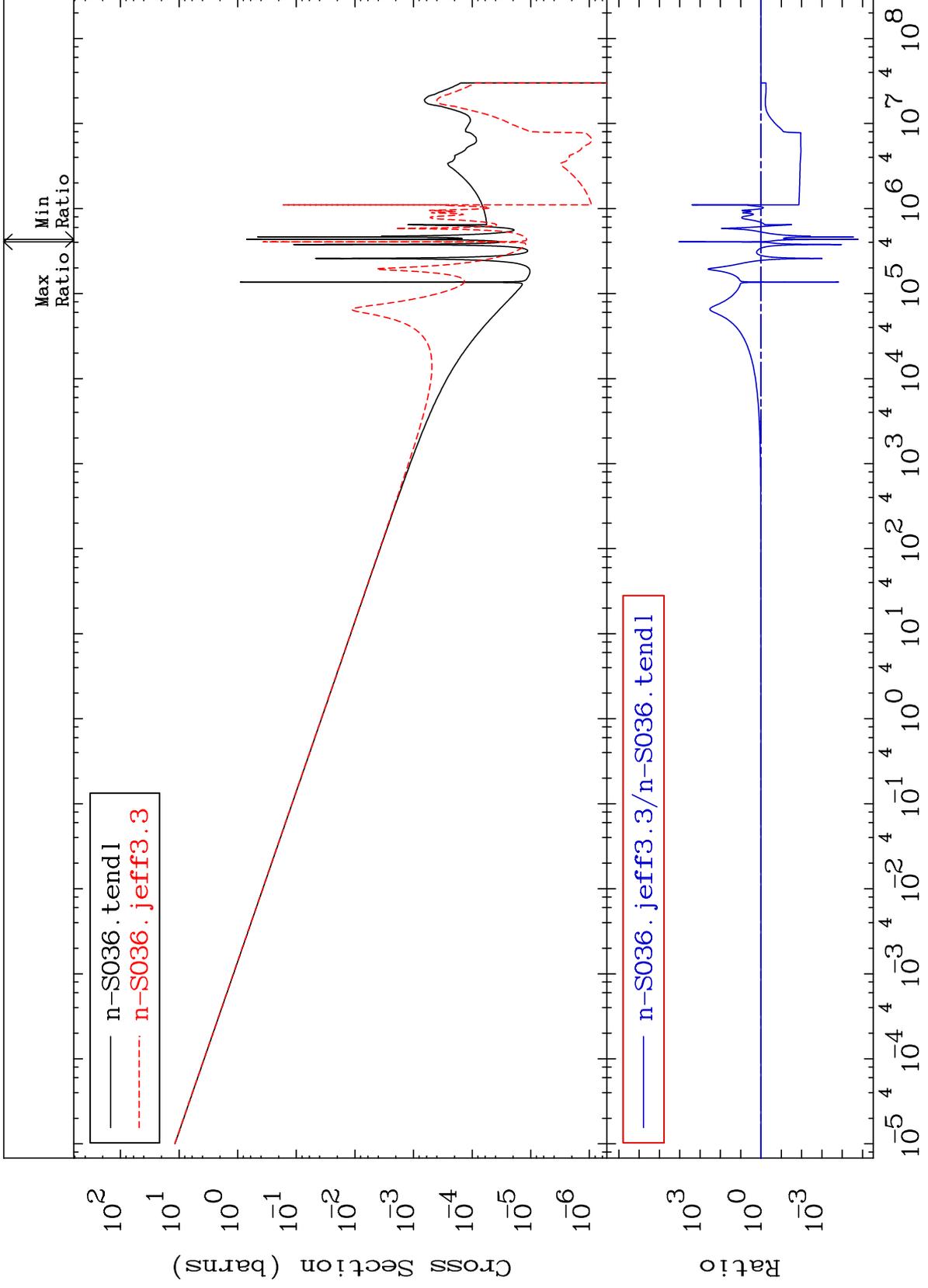


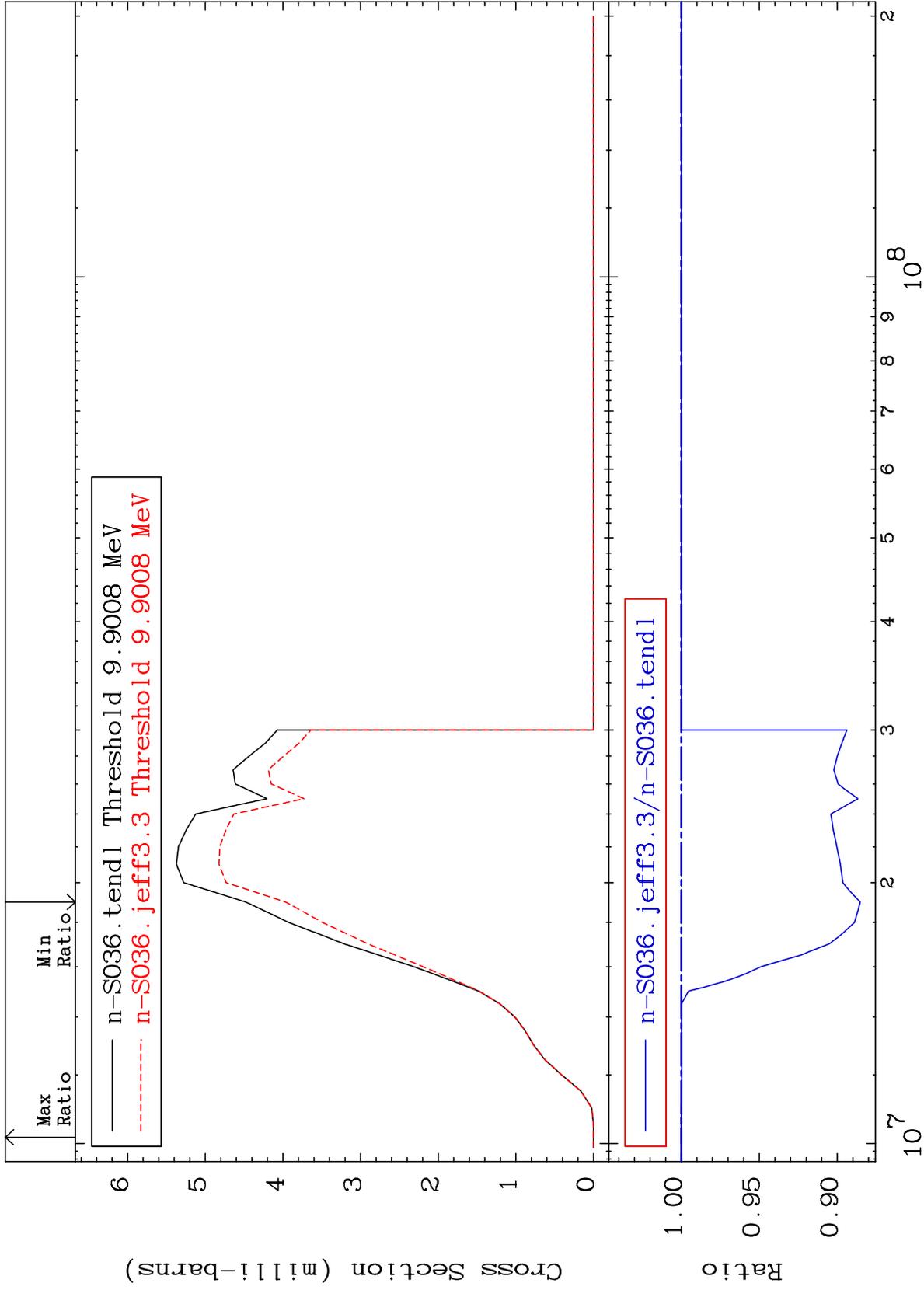
MAT 1637

(n,  $\gamma$ )

Cross Section

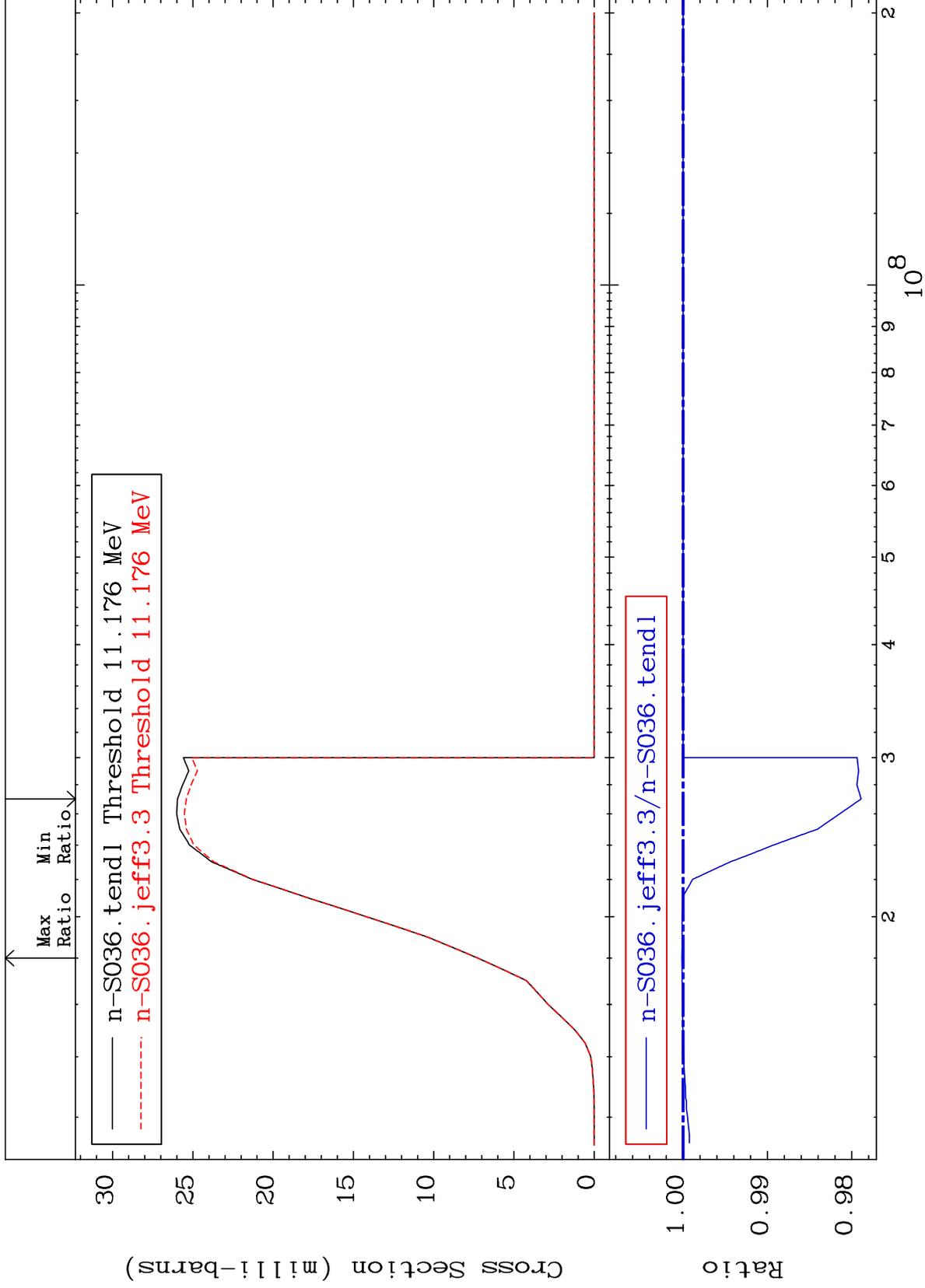
16-S -36  
-100.0 To 9999. %

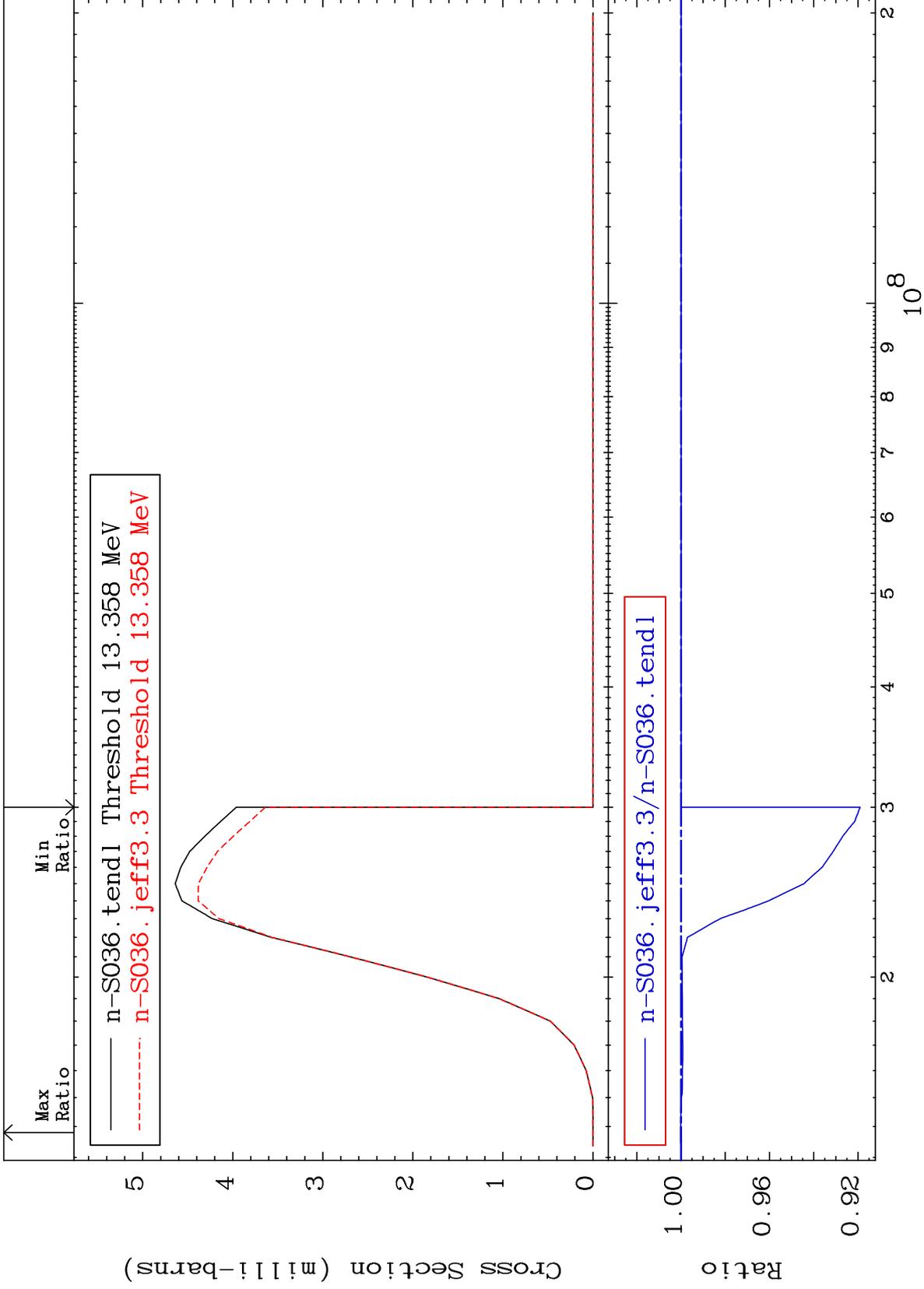




Cross Section

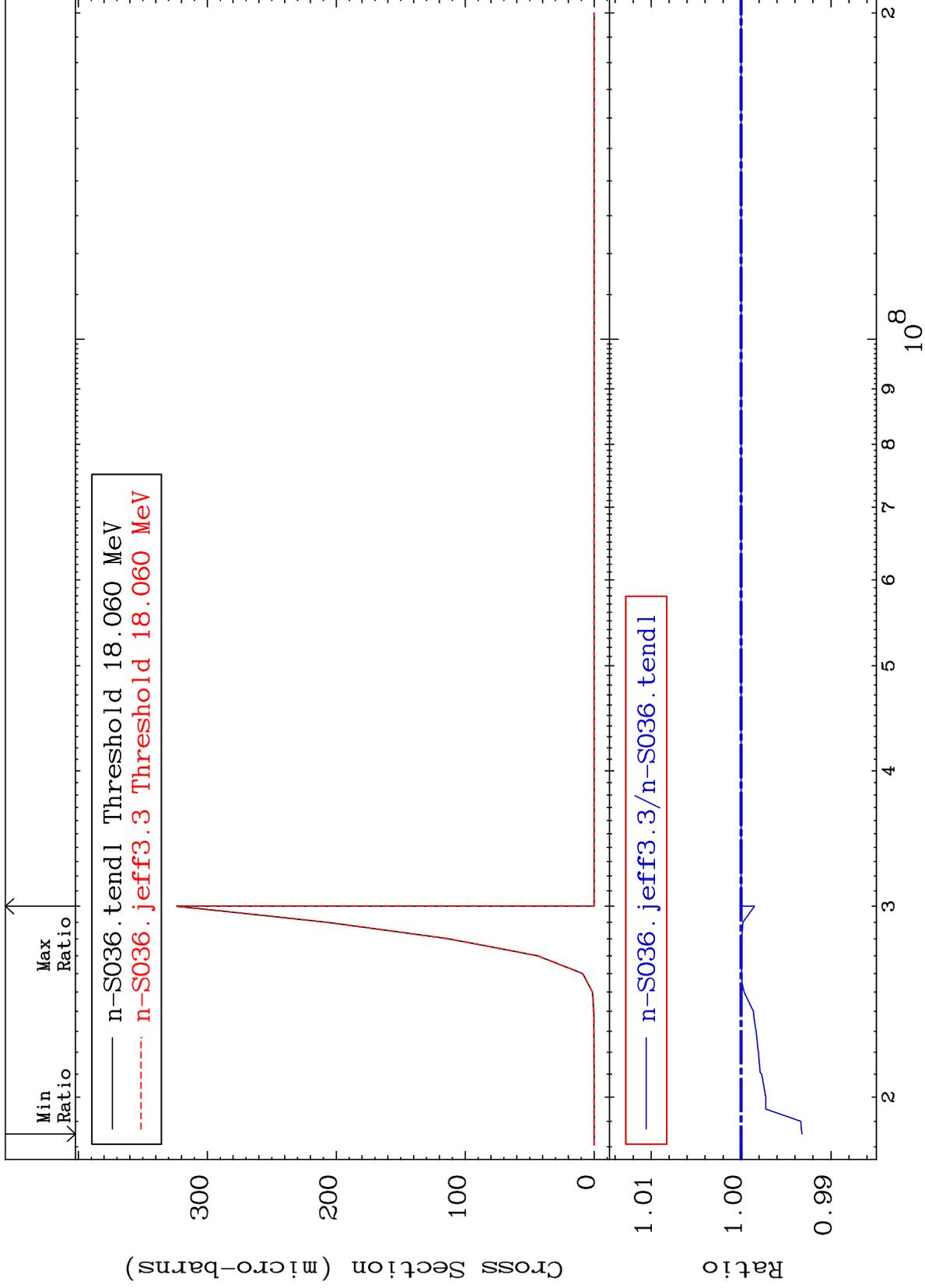
-2.111 To 0.015 %





Cross Section

-0.677 To 0.000 %



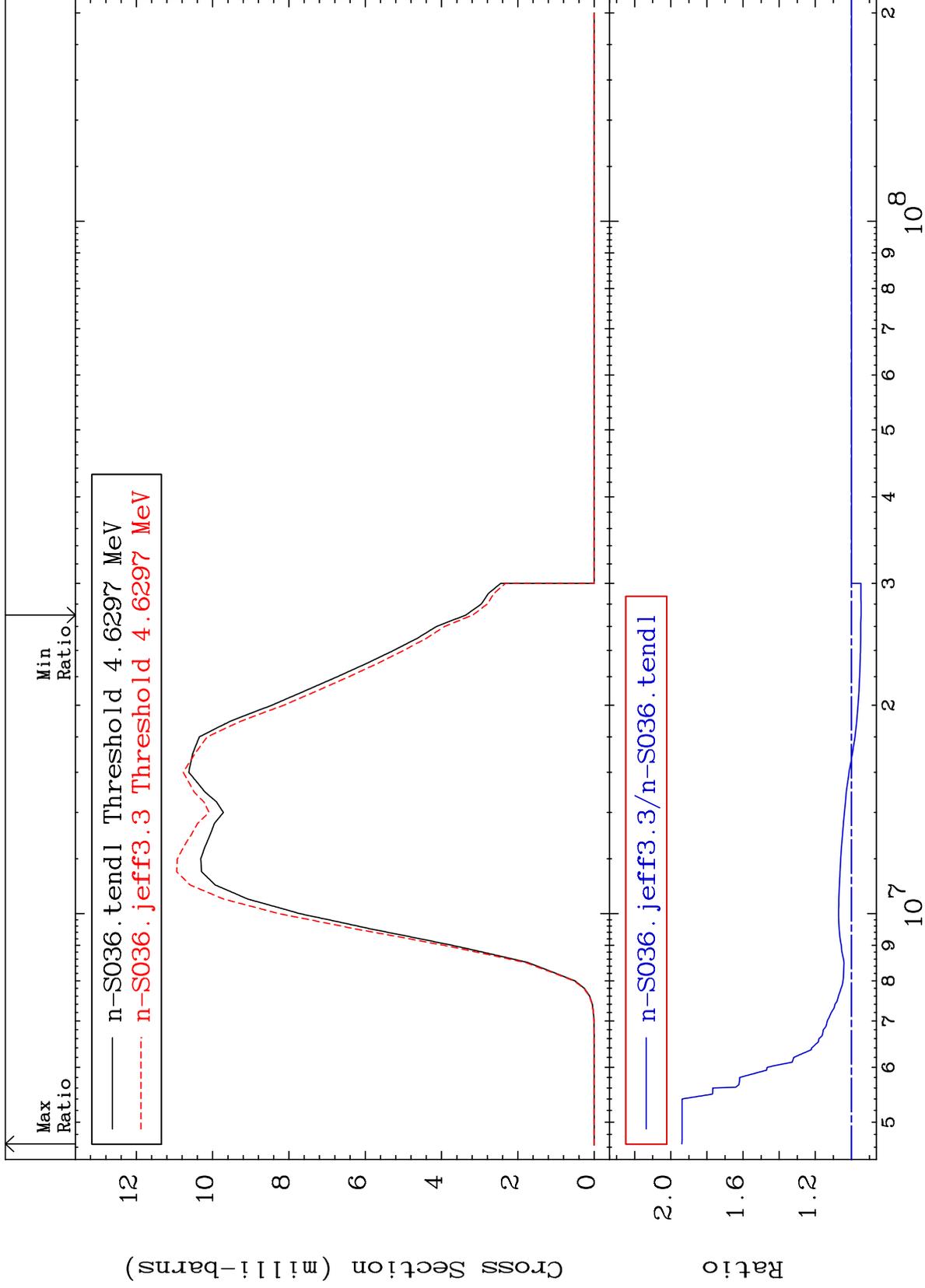
MAT 1637

(n,  $\alpha$ )

16-S -36

Cross Section

-5.372 To 93.86 %



55

Incident Energy (eV)

16-S -36

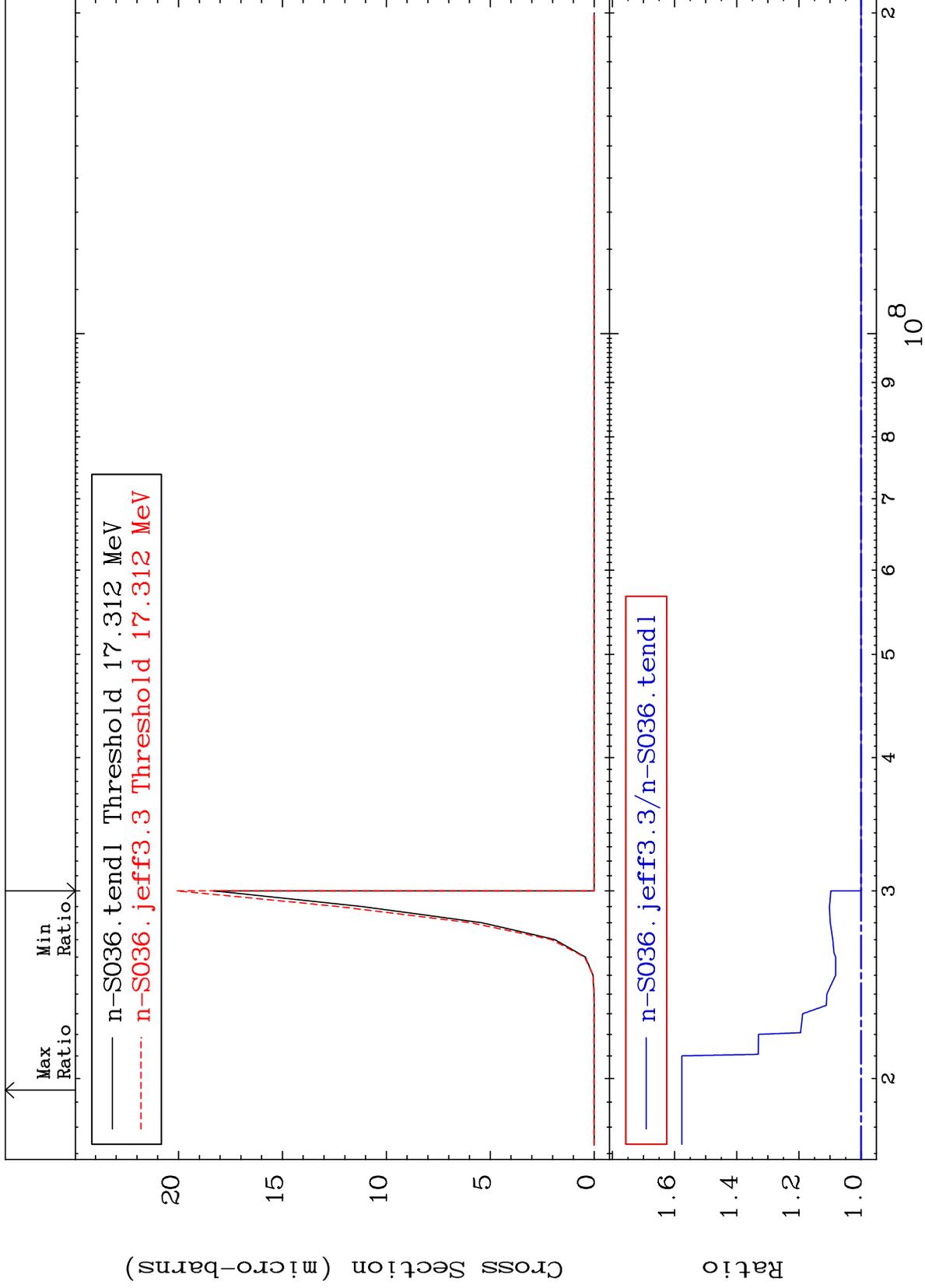
MAT 1637

(n,2α)

16-S -36

Cross Section

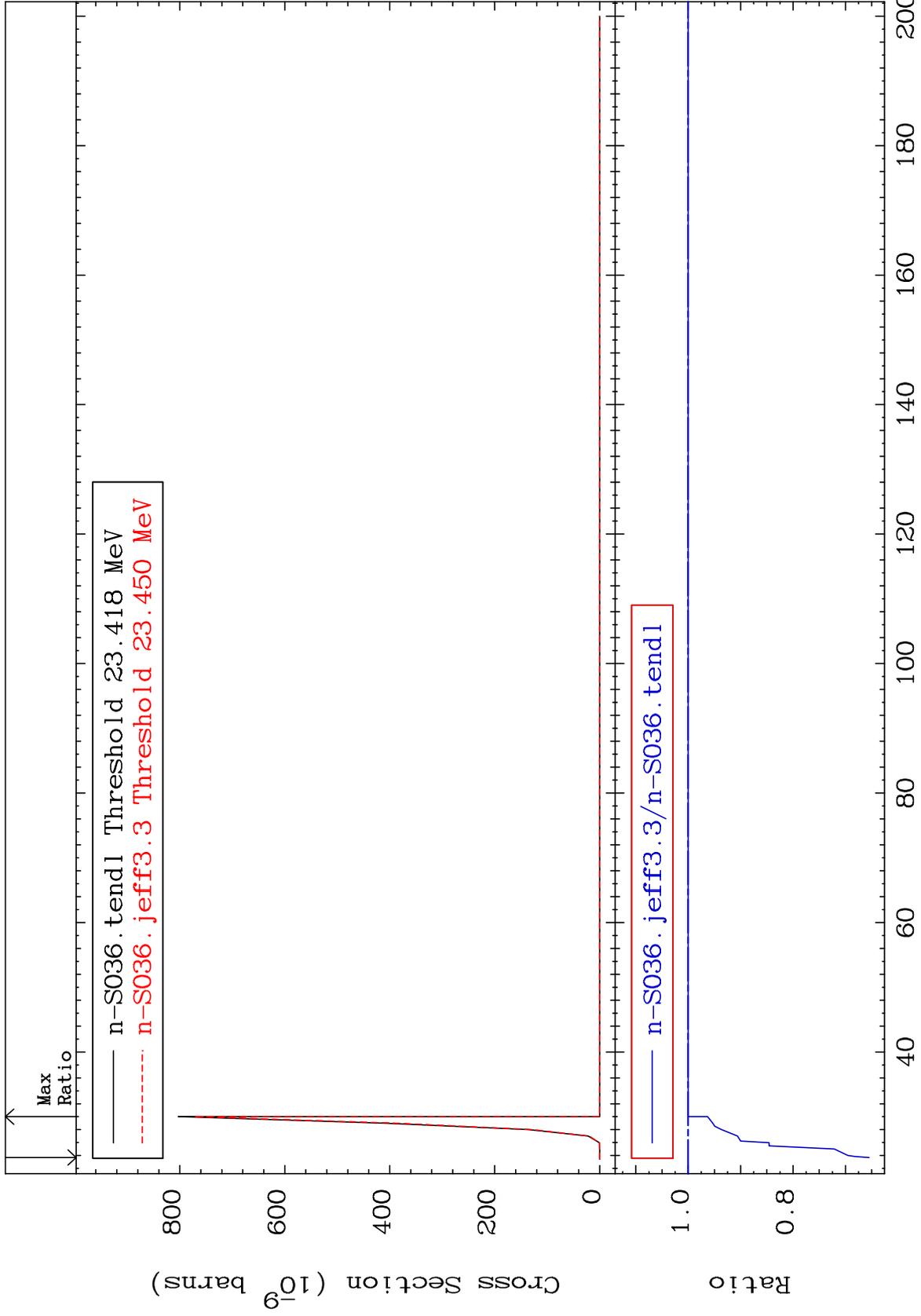
0.000 To 57.65 %

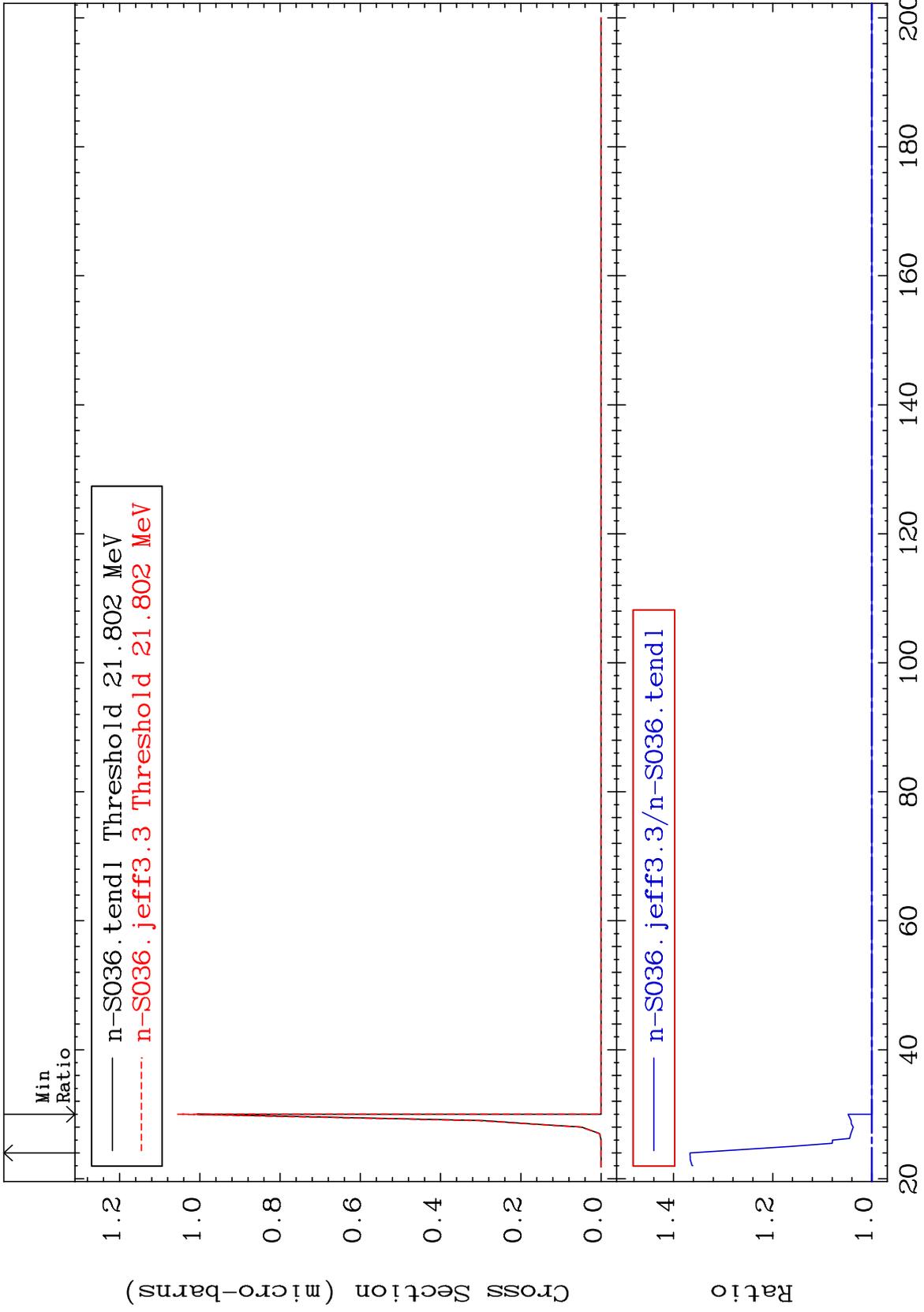


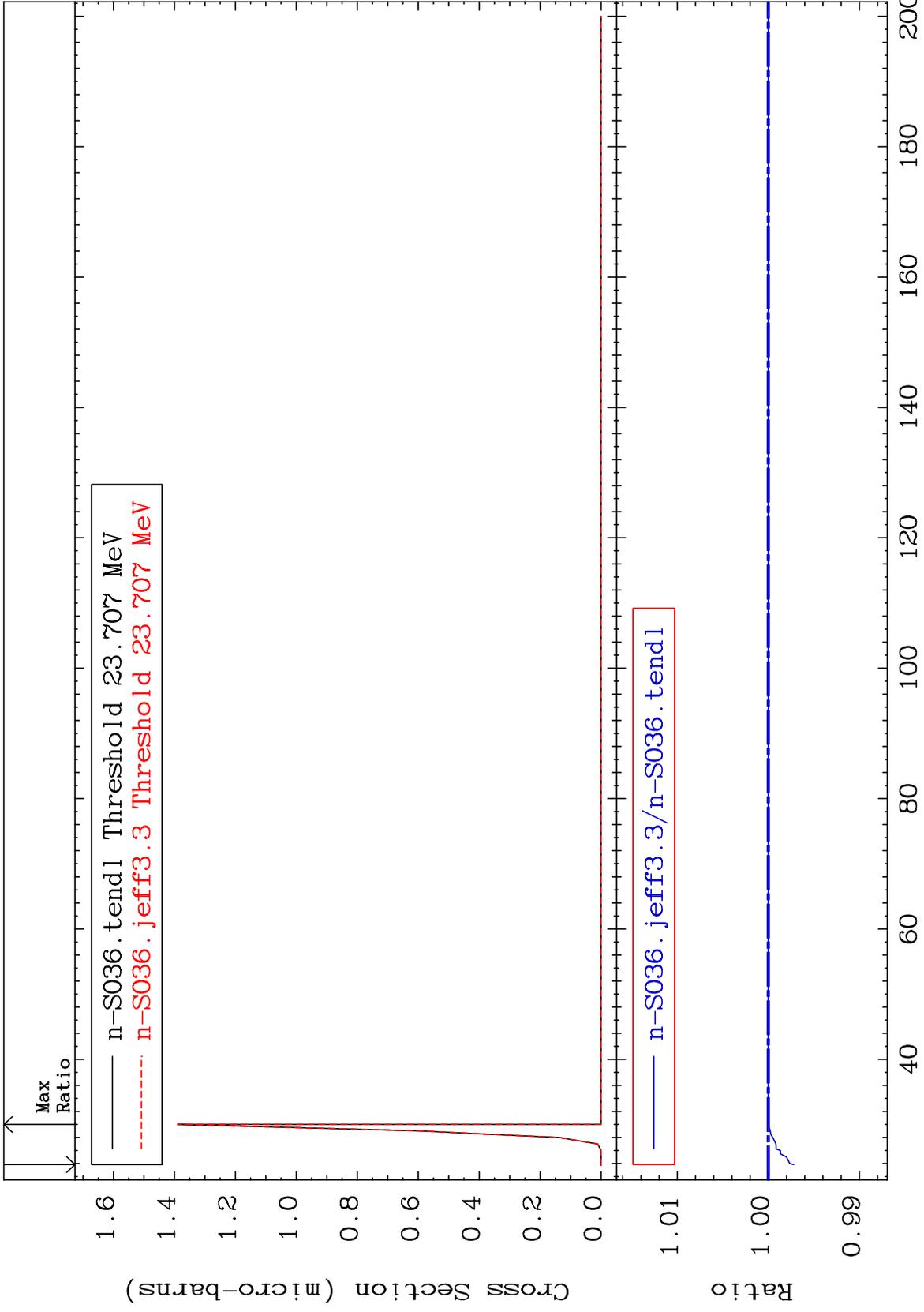
56

Incident Energy (eV)

16-S -36



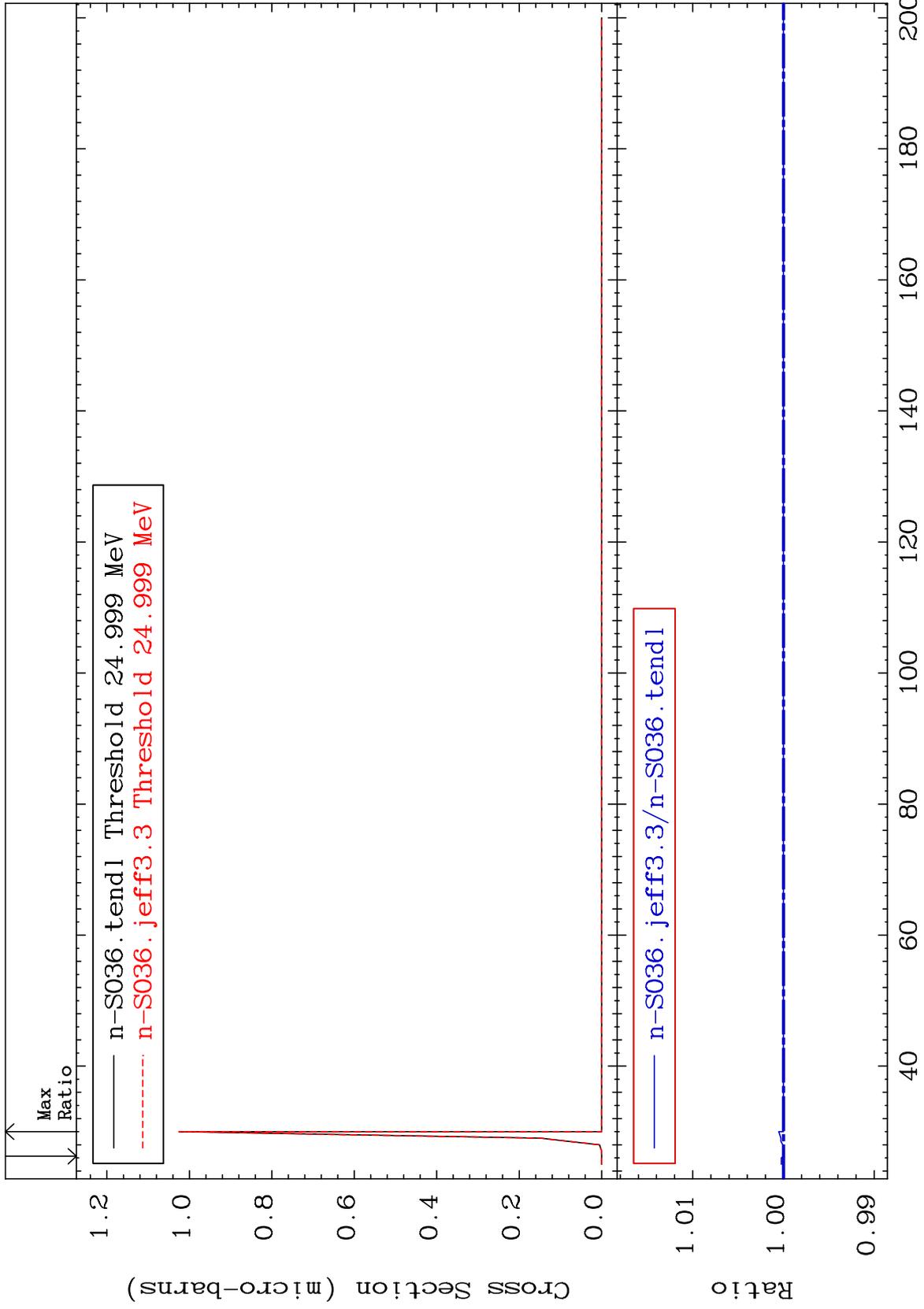




MAT 1637

(n,p) t  
Cross Section

16-S -36  
-0.001 To 0.052 %



60

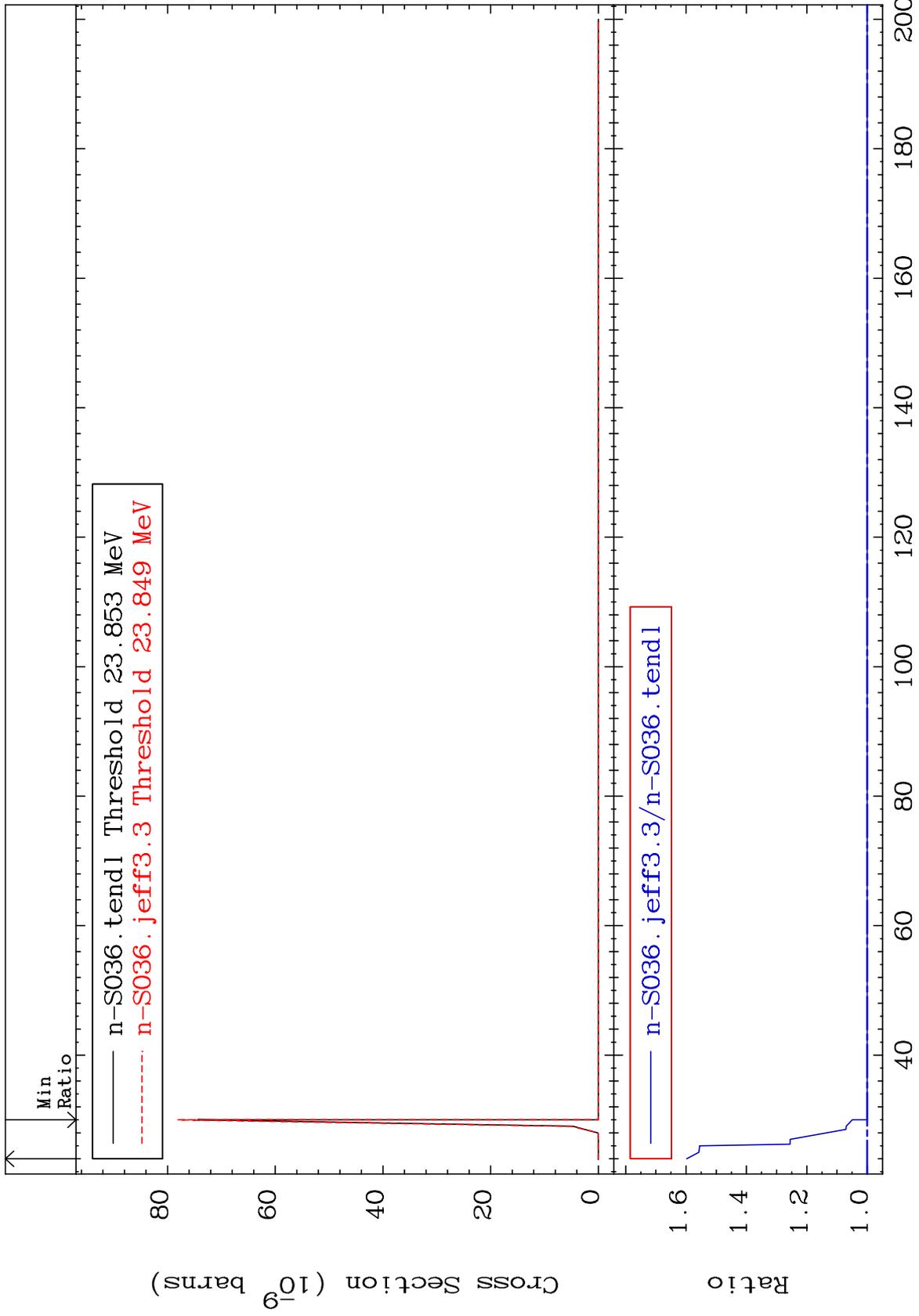
Incident Energy (MeV)

16-S -36

MAT 1637

(n,d)  $\alpha$   
Cross Section

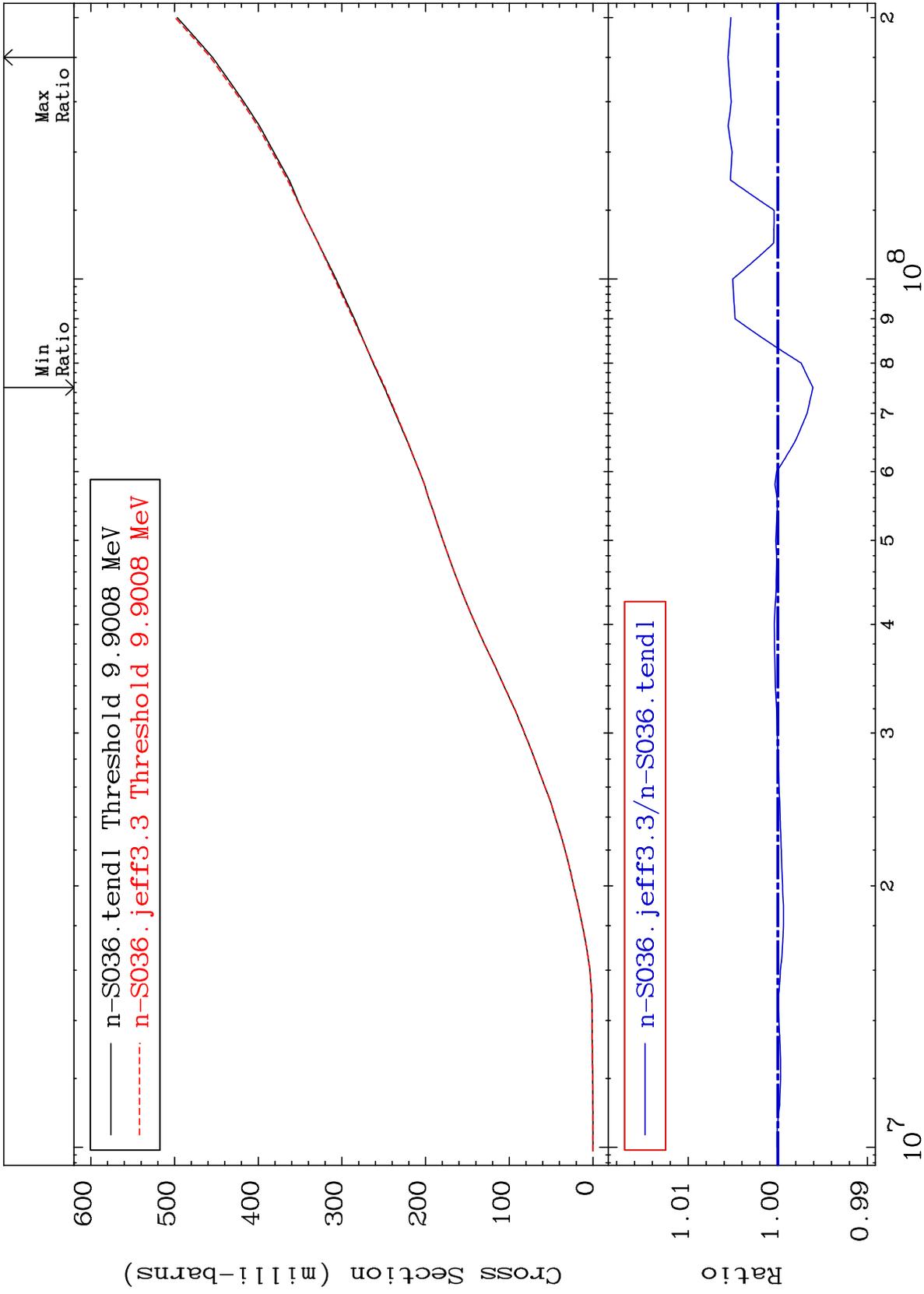
16-S -36  
0.000 To 59.78 %



MAT 1637

### Hydrogen Production Cross Section

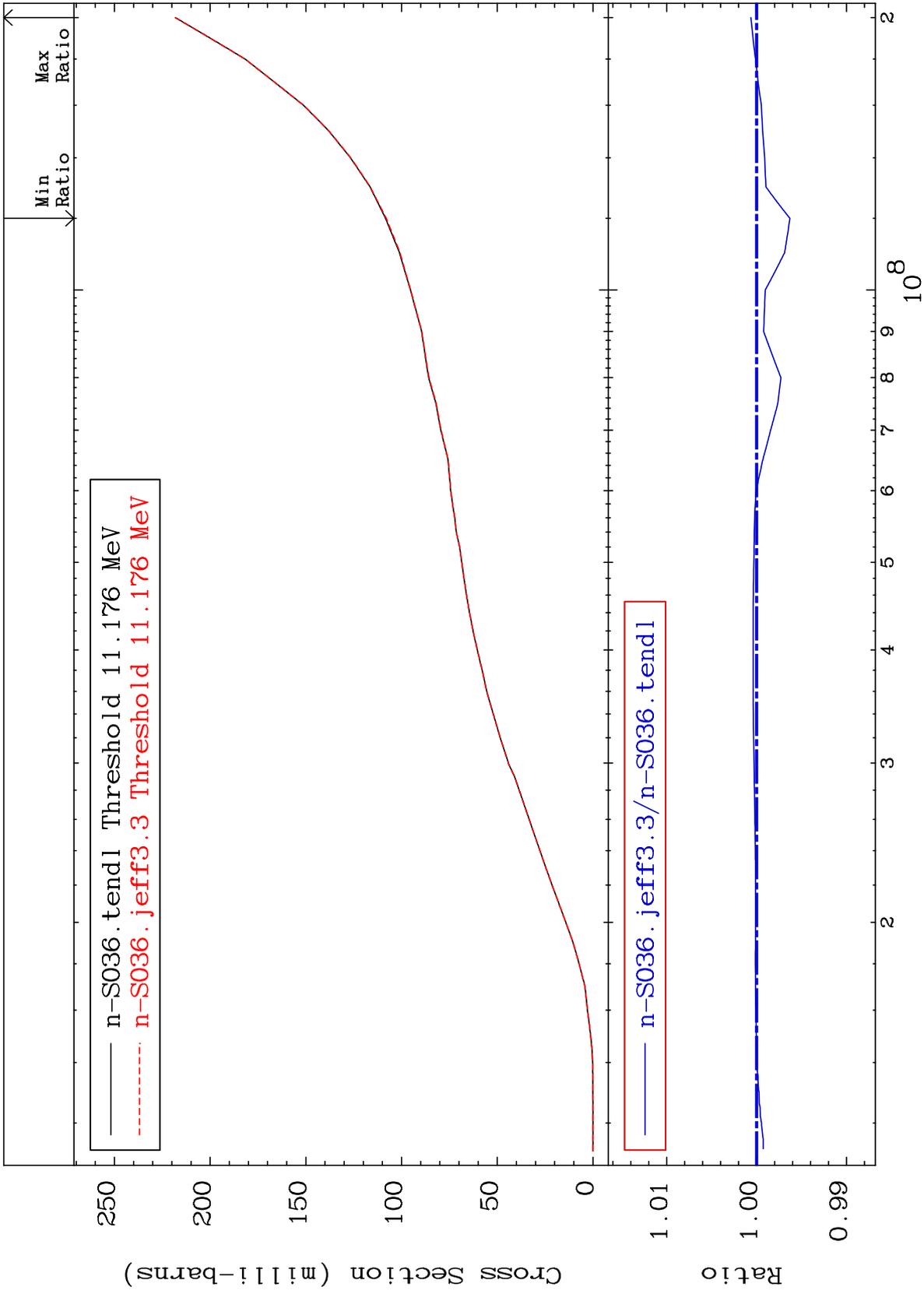
16-S -36  
-0.392 To 0.557 %

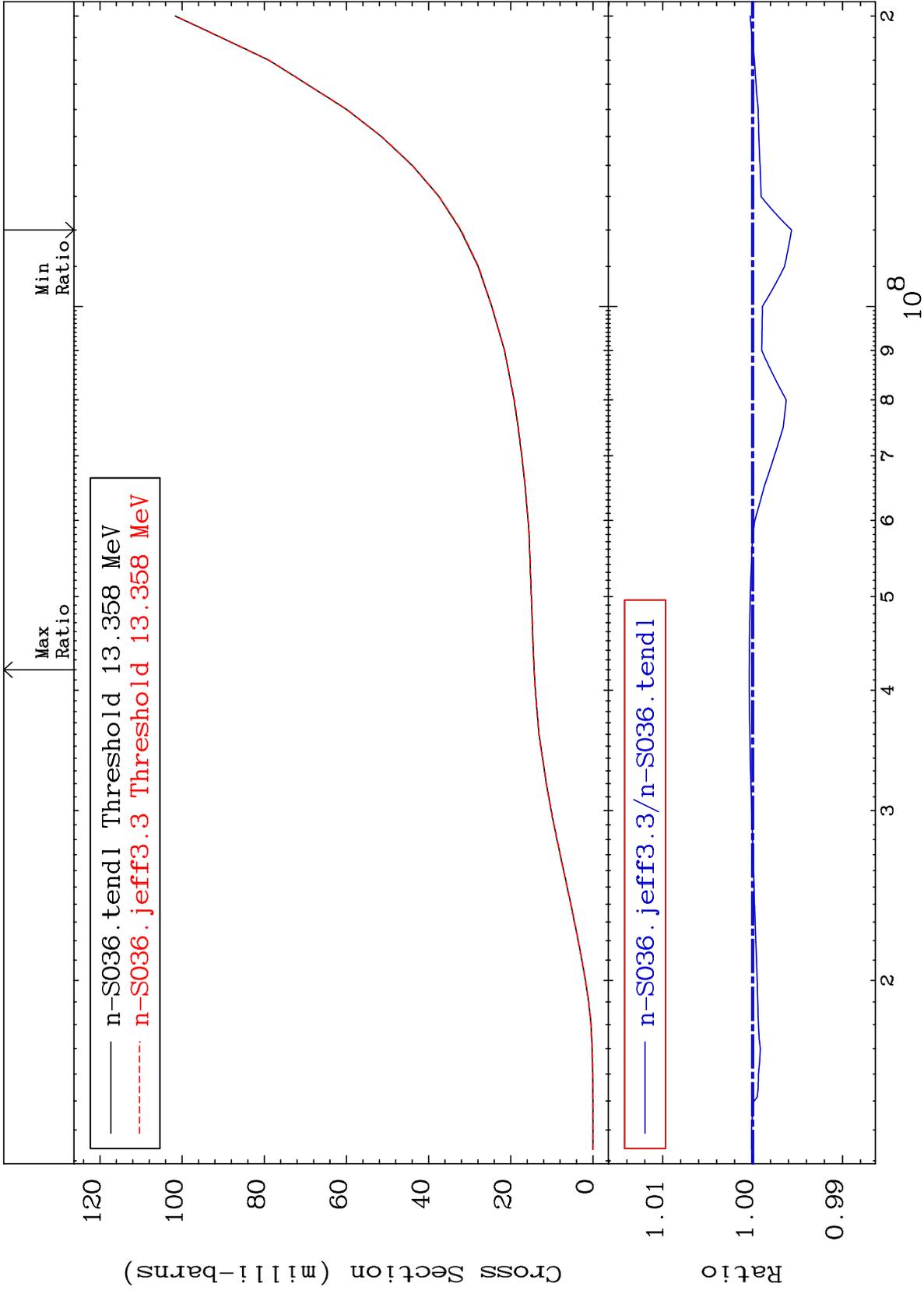


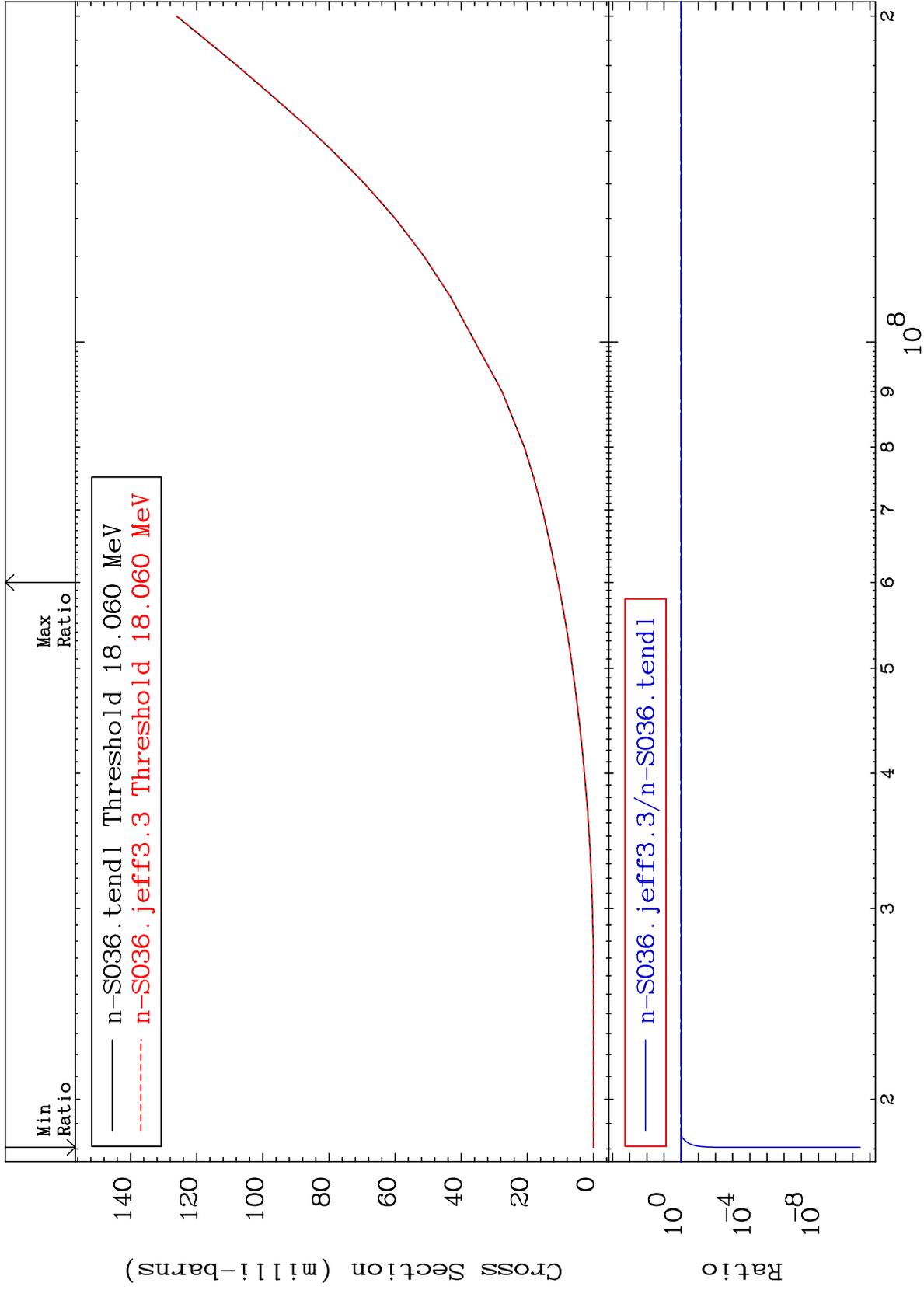
62

Incident Energy (eV)

16-S -36



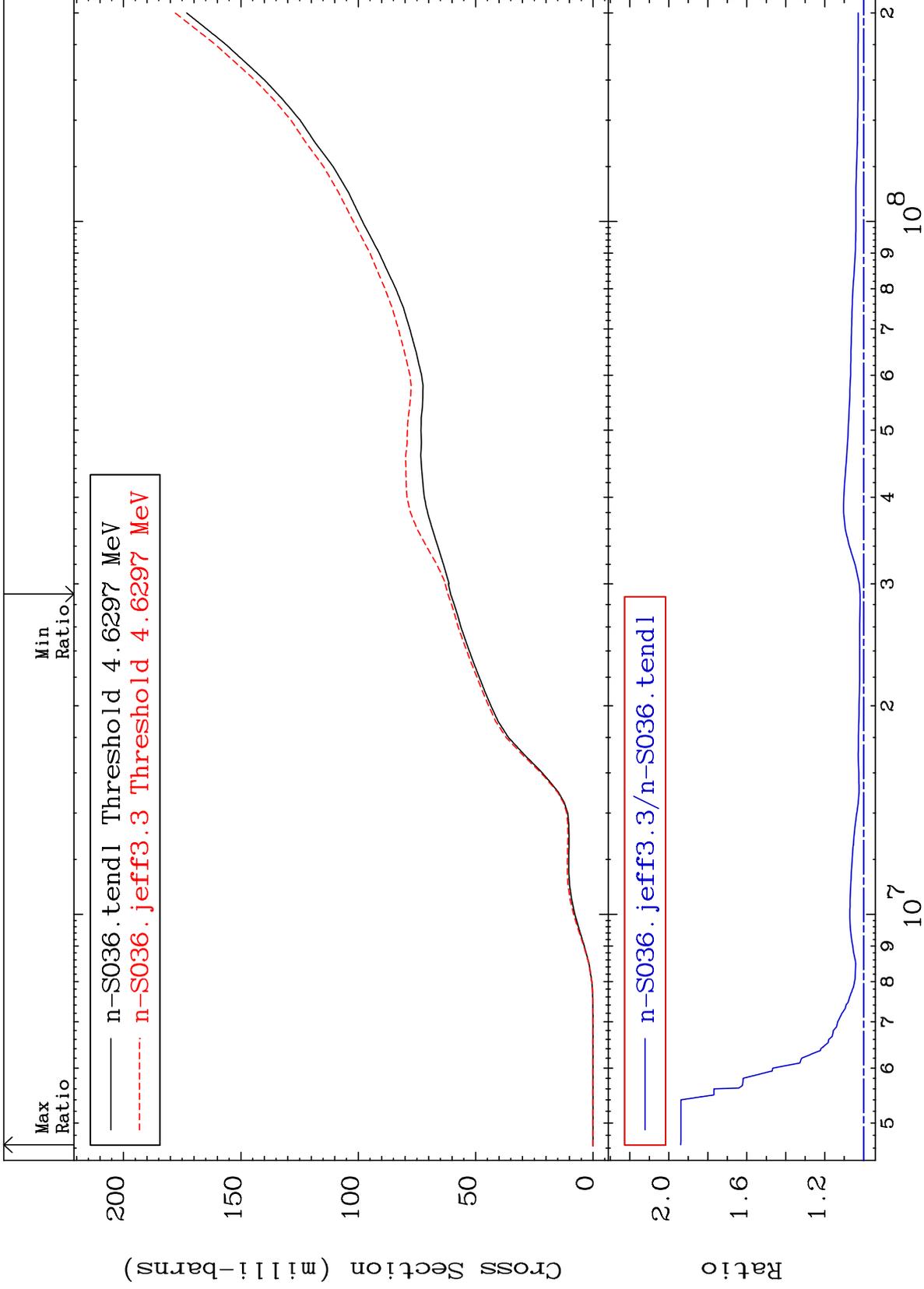




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He-4 Production  
Cross Section

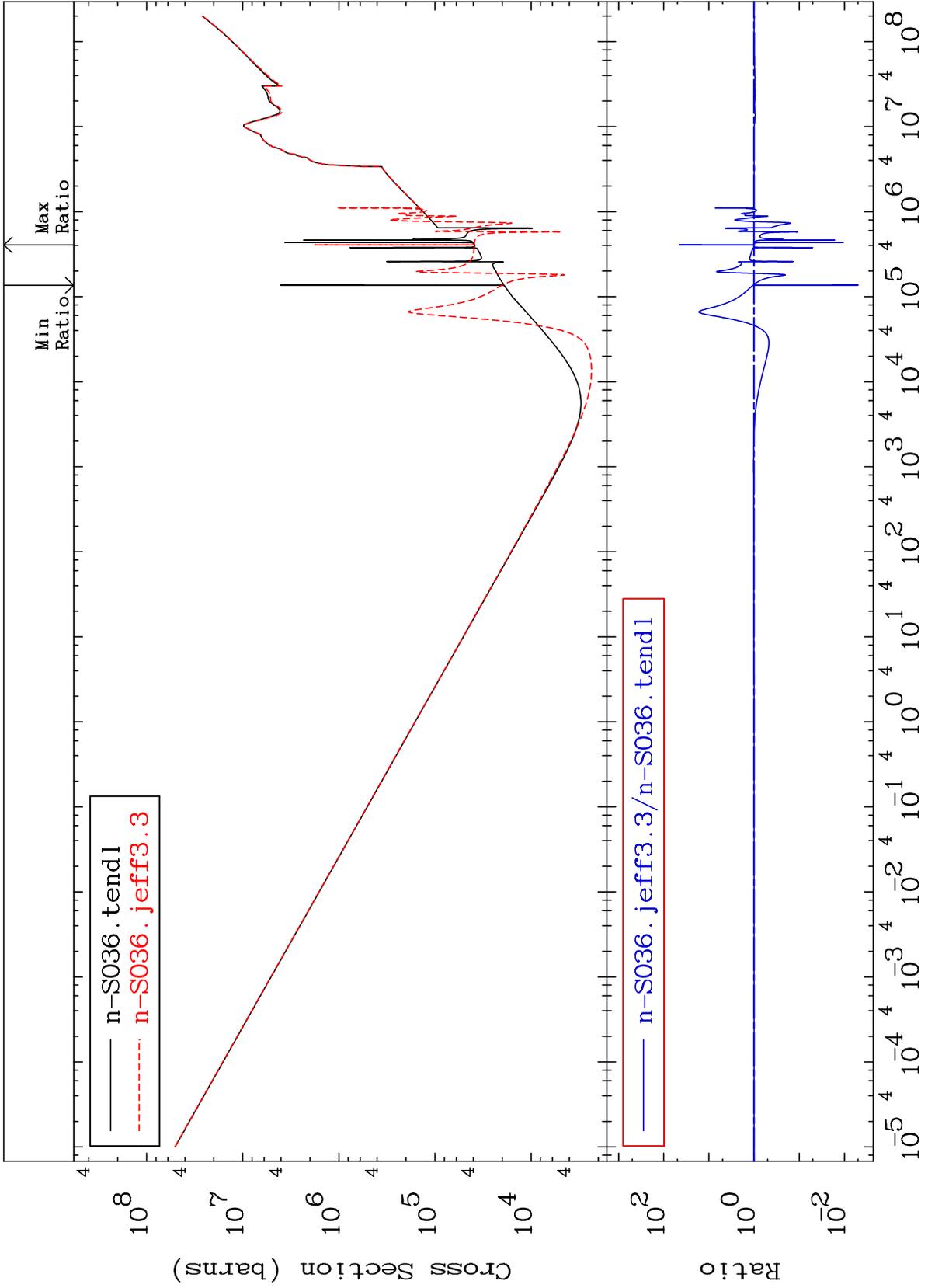
16-S -36  
1.861 To 93.86 %

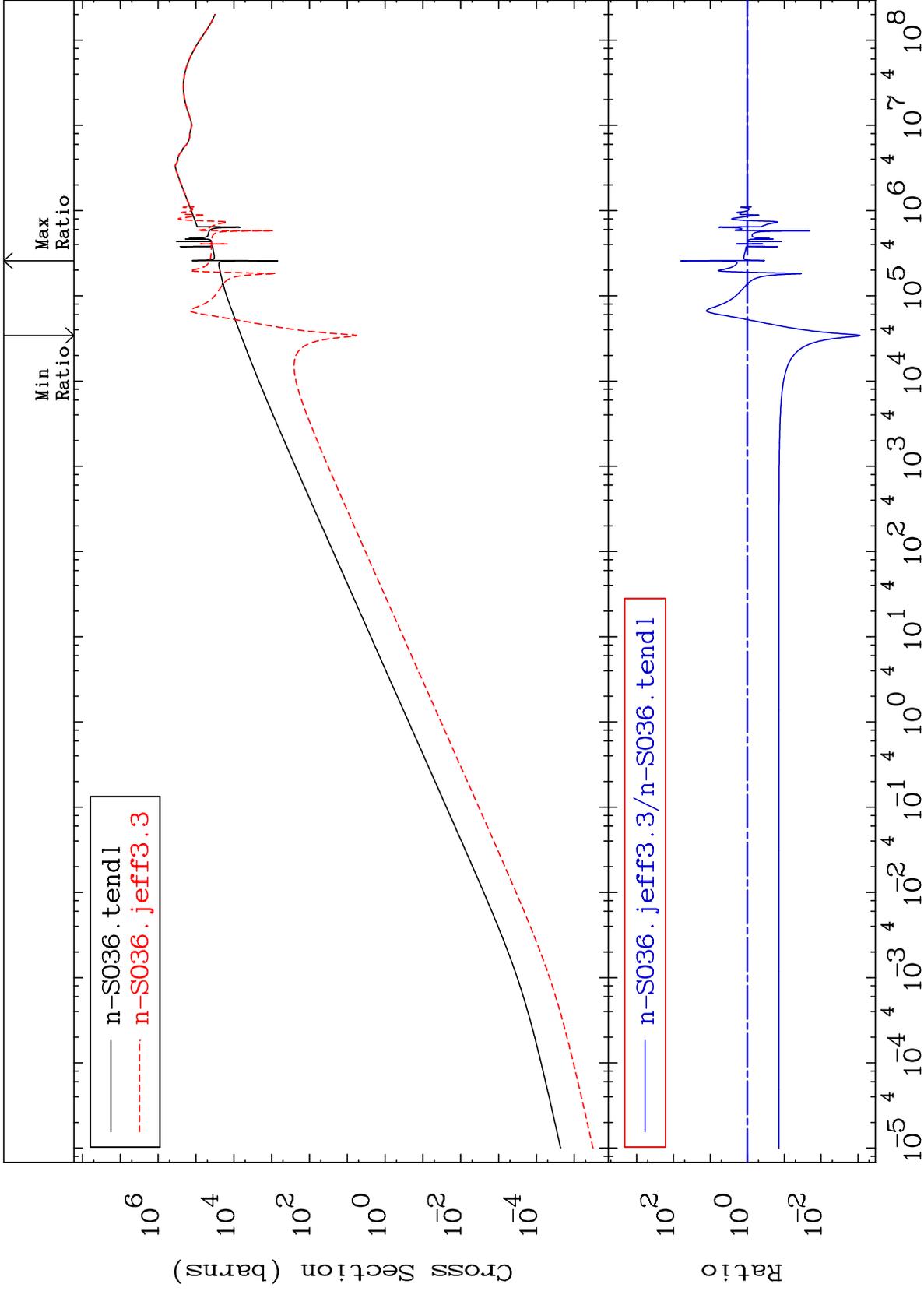


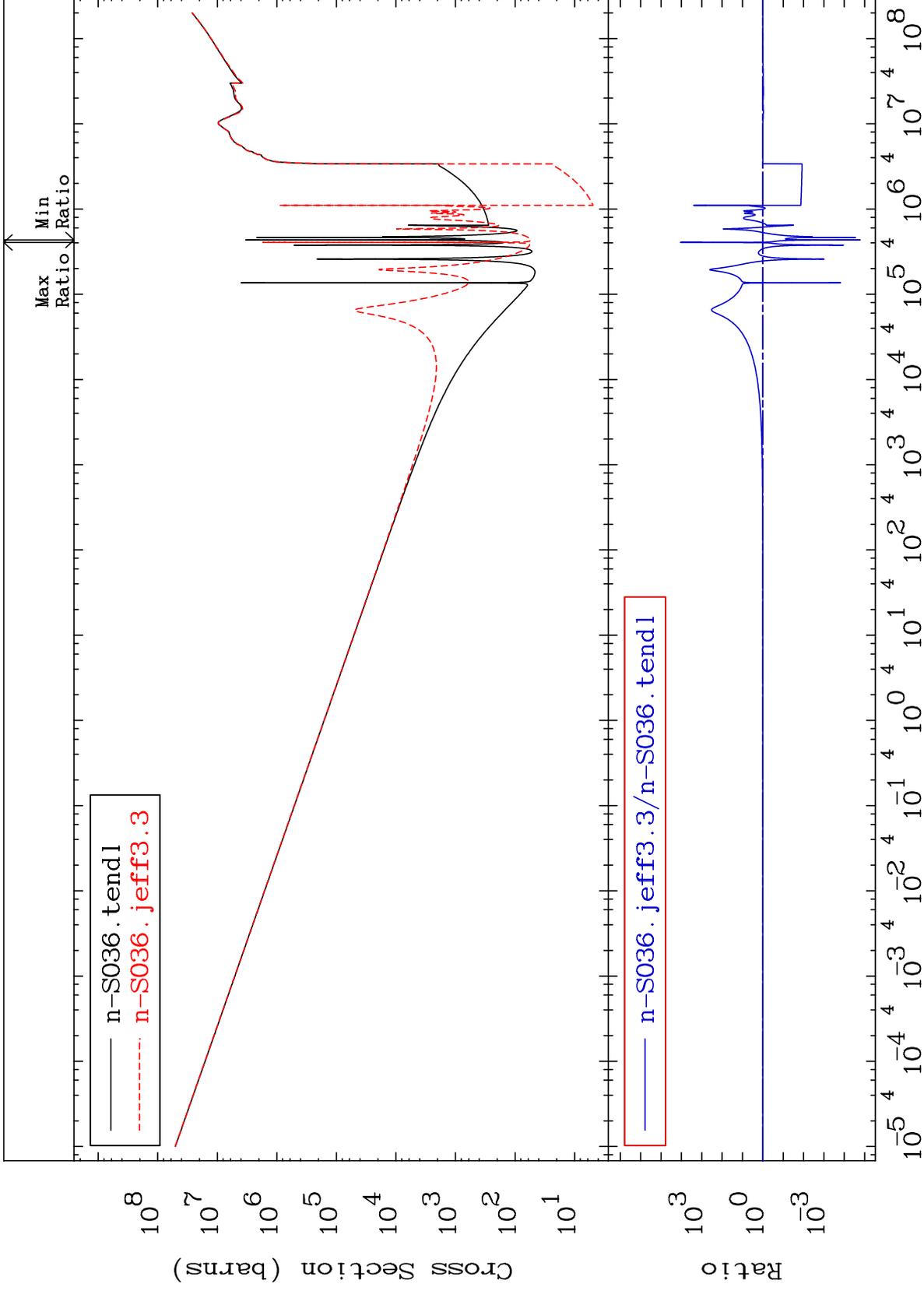
66

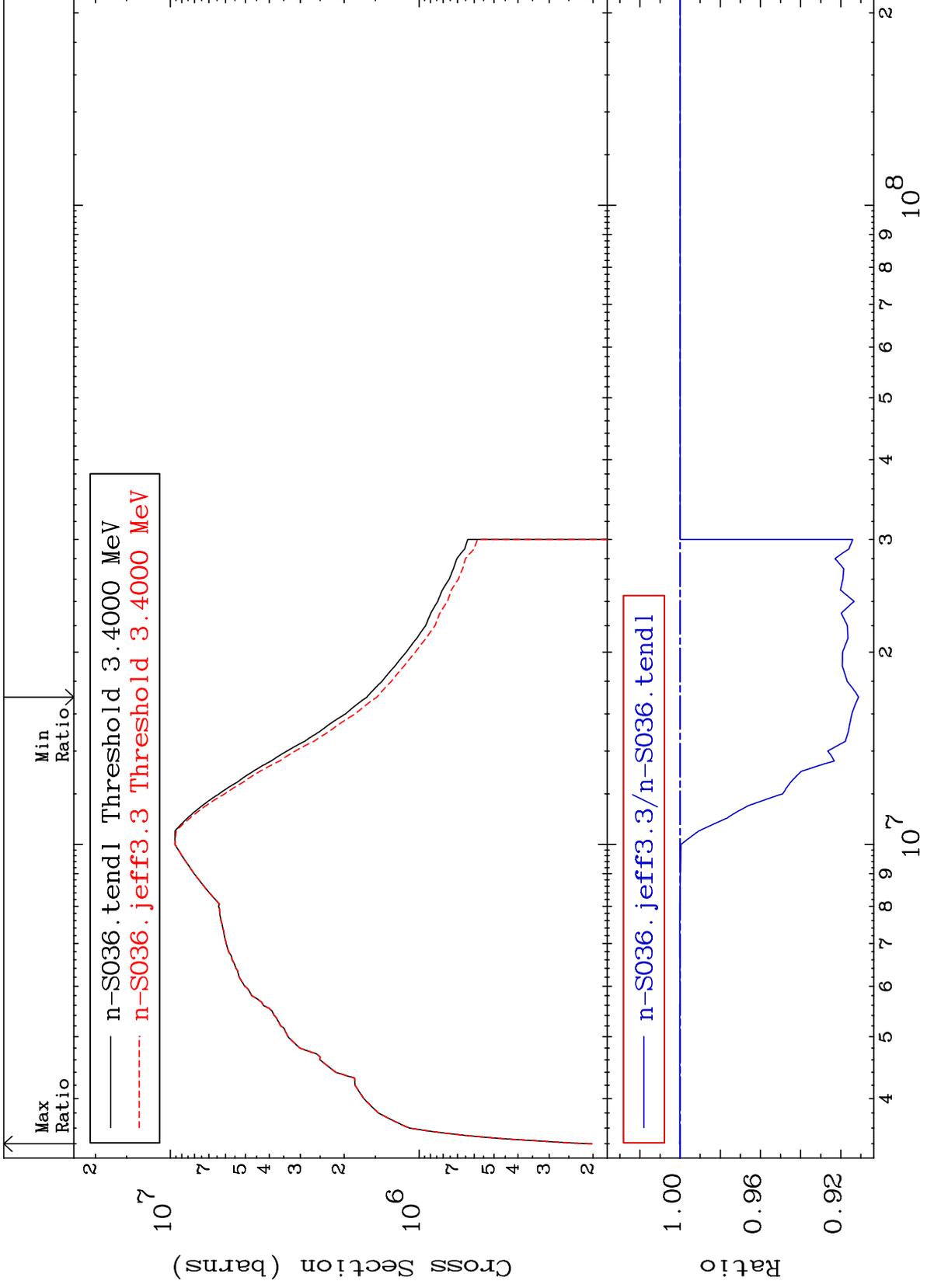
Incident Energy (eV)

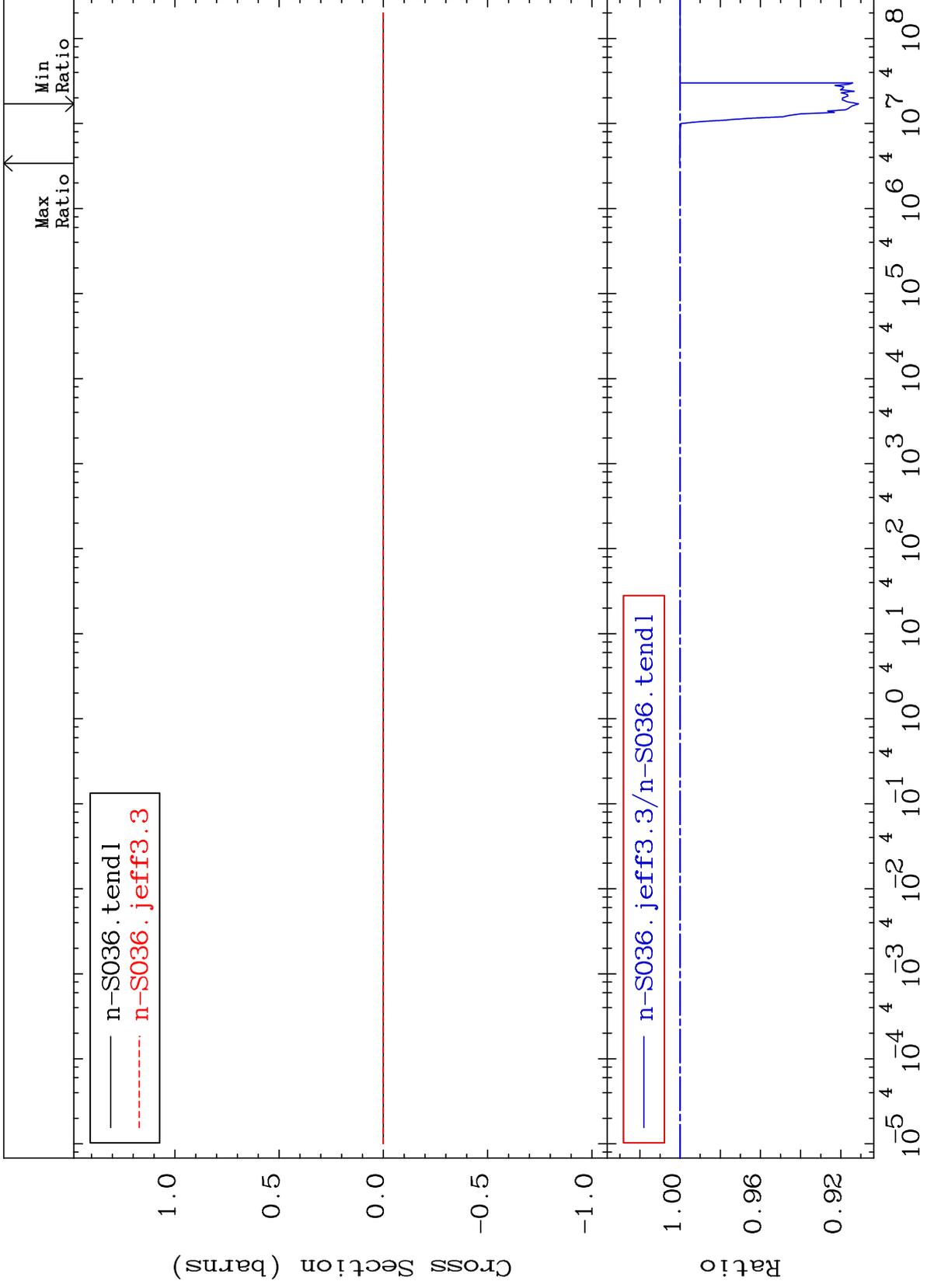
16-S -36

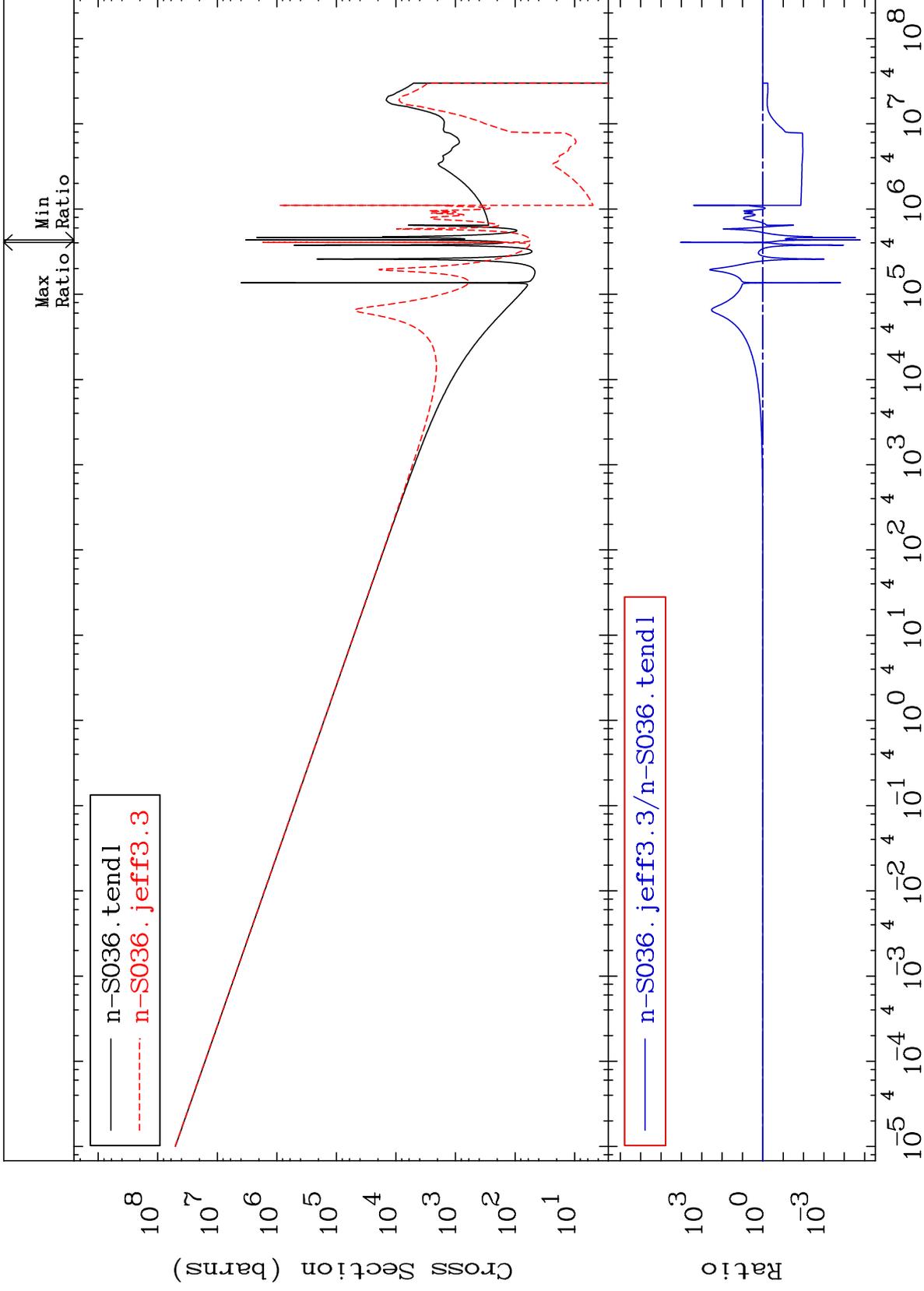








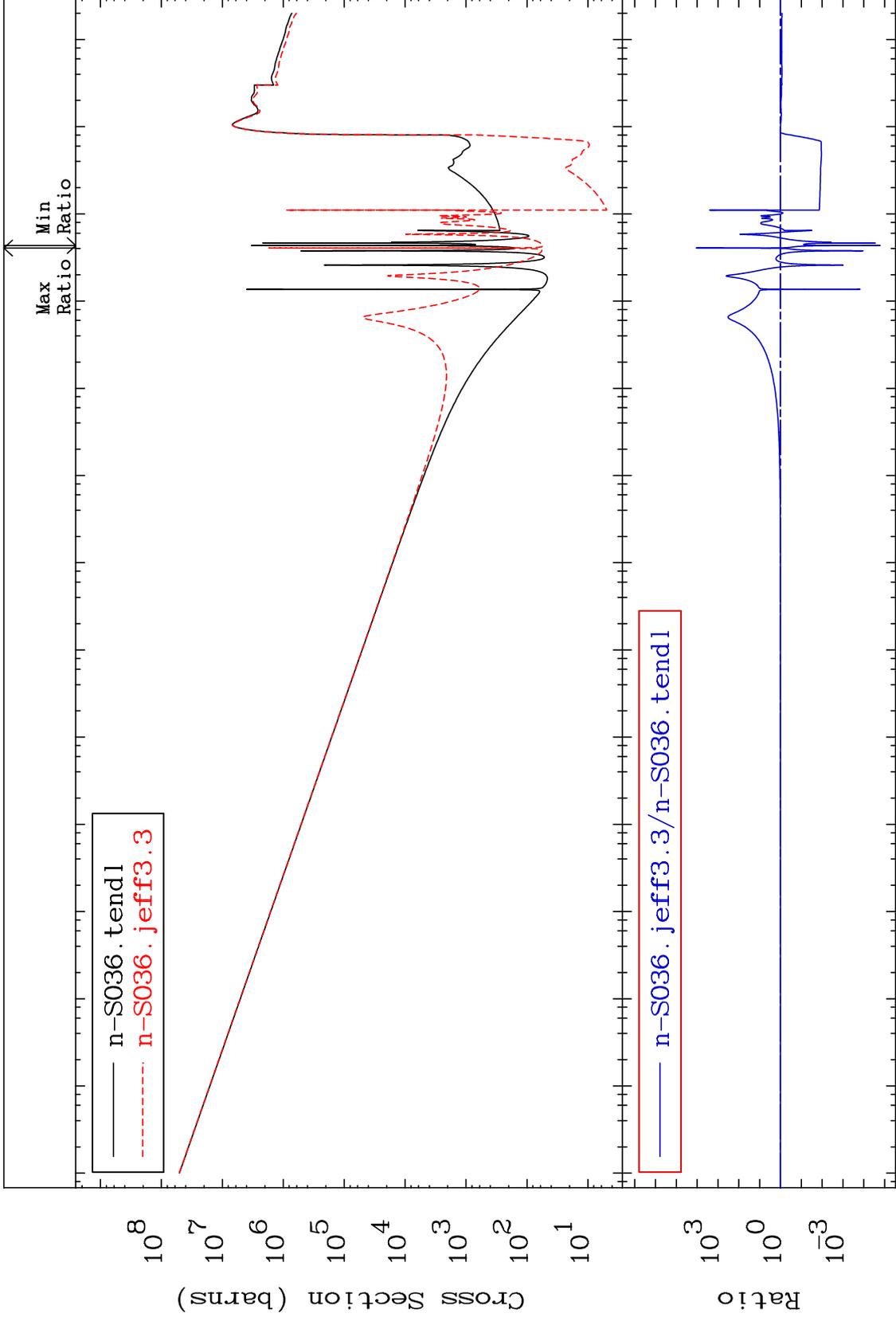




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Total photon (eV-barns)  
Cross Section

16-S -36  
-100.0 To 9999. %



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Incident Energy (eV)

16-S -36

