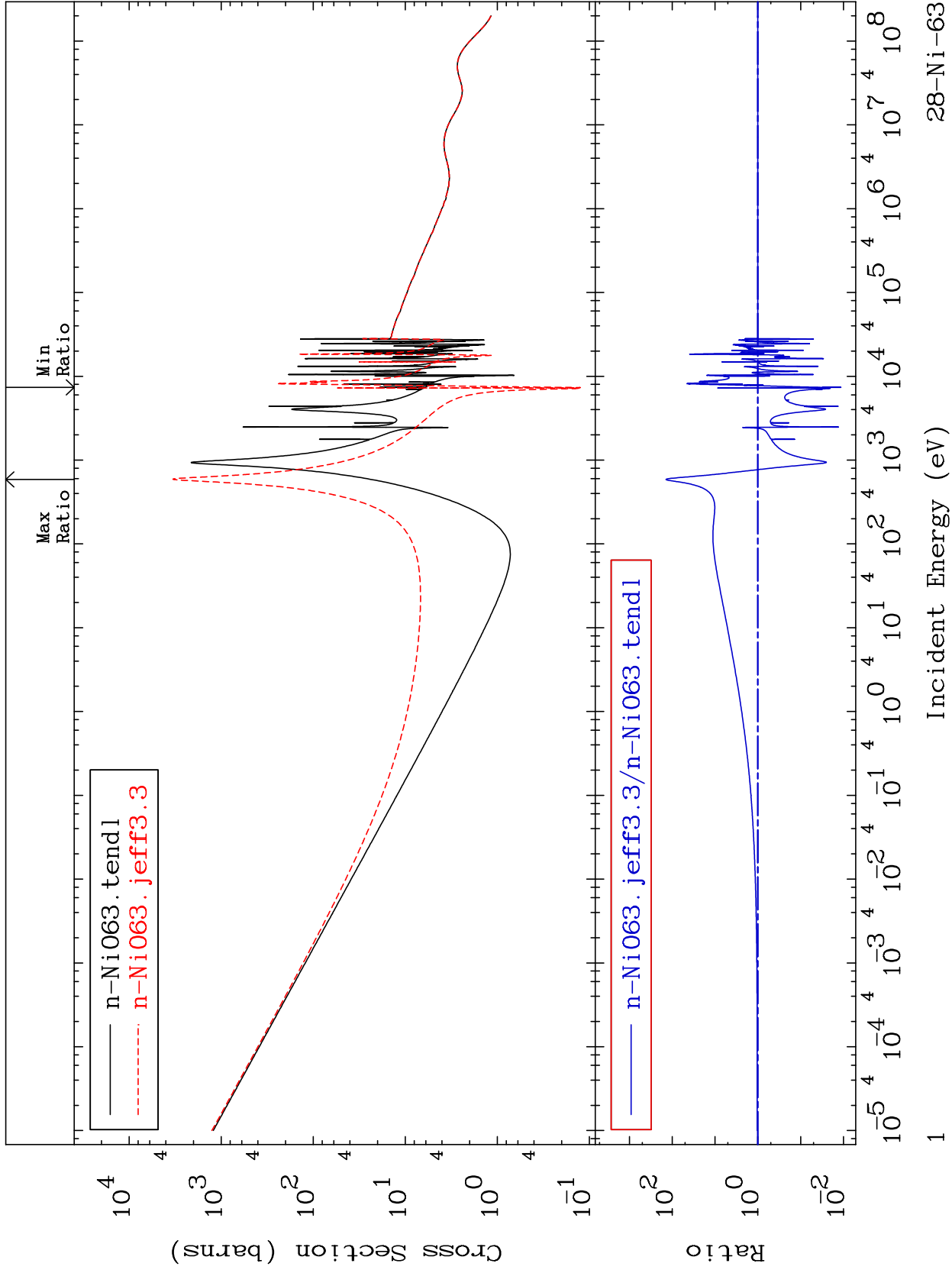


MAT 2840

Total Cross Section  
28-Ni-63  
-98.85 To 9999. %

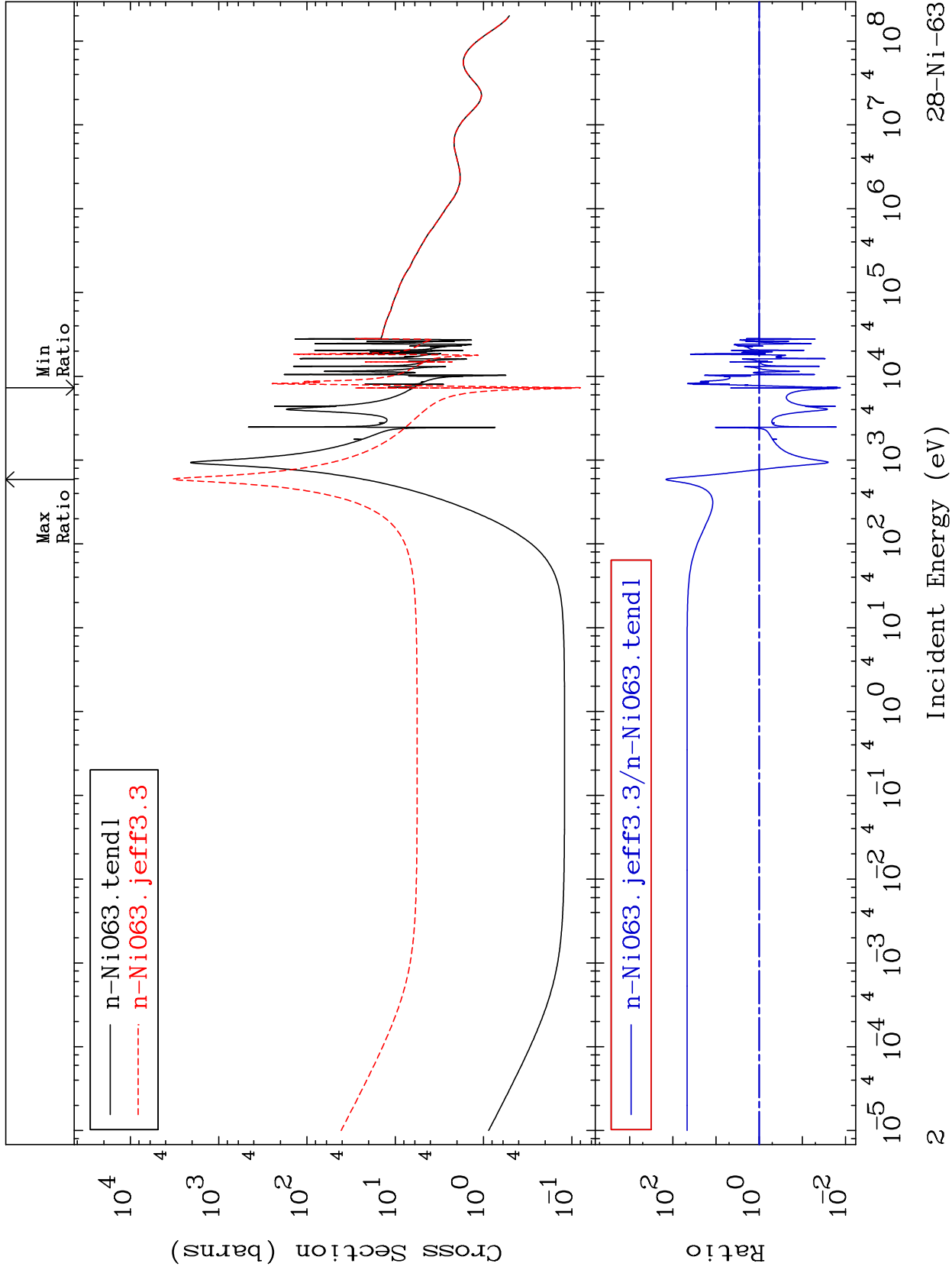


28-Ni-63

MAT 2840

Elastic  
Cross Section

28-Ni-63  
-98.71 To 9999. %



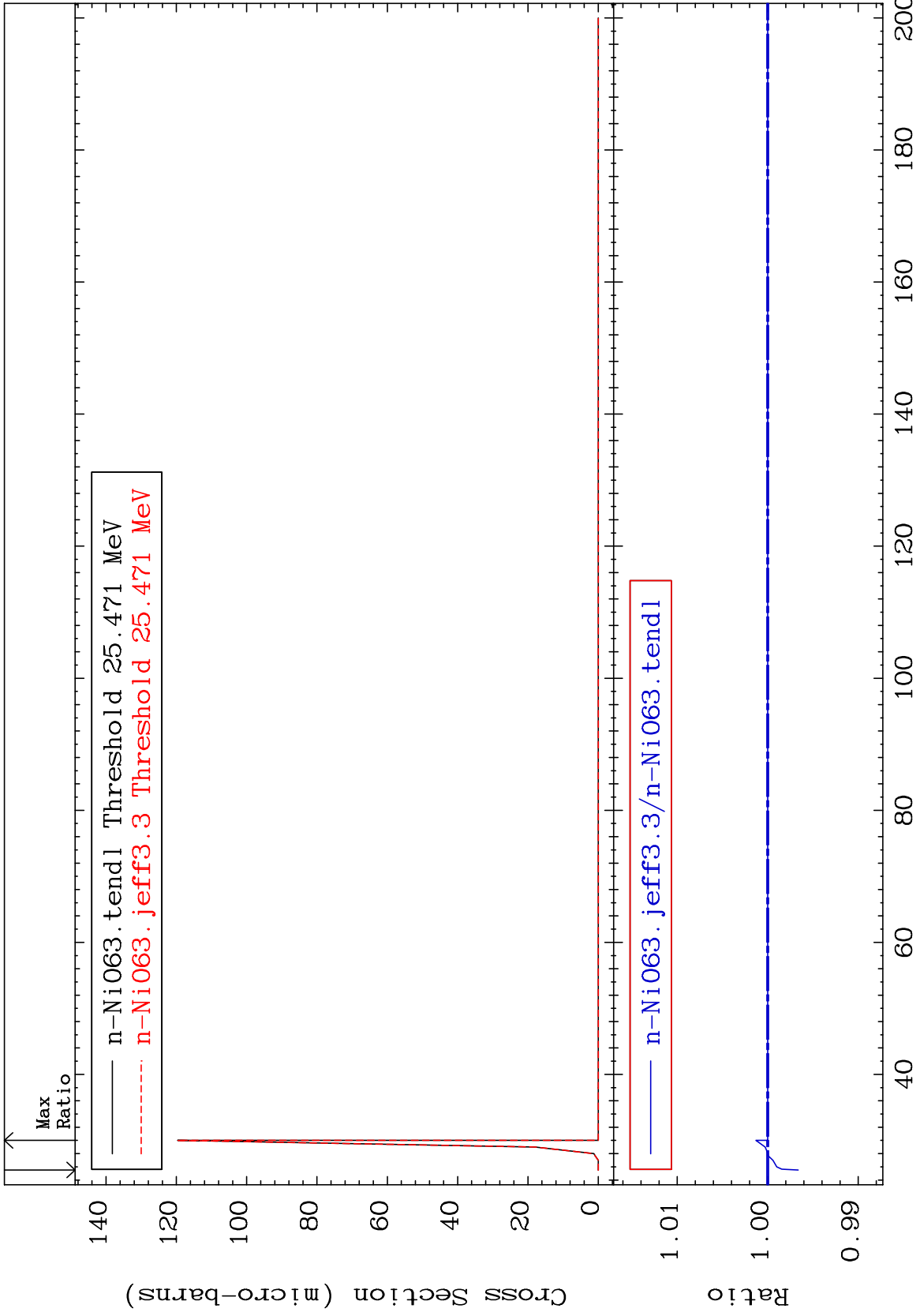
28-Ni-63

Incident Energy (eV)

MAT 2840

(n,2n) d  
Cross Section

28-Ni-63  
-0.337 To 0.130 %



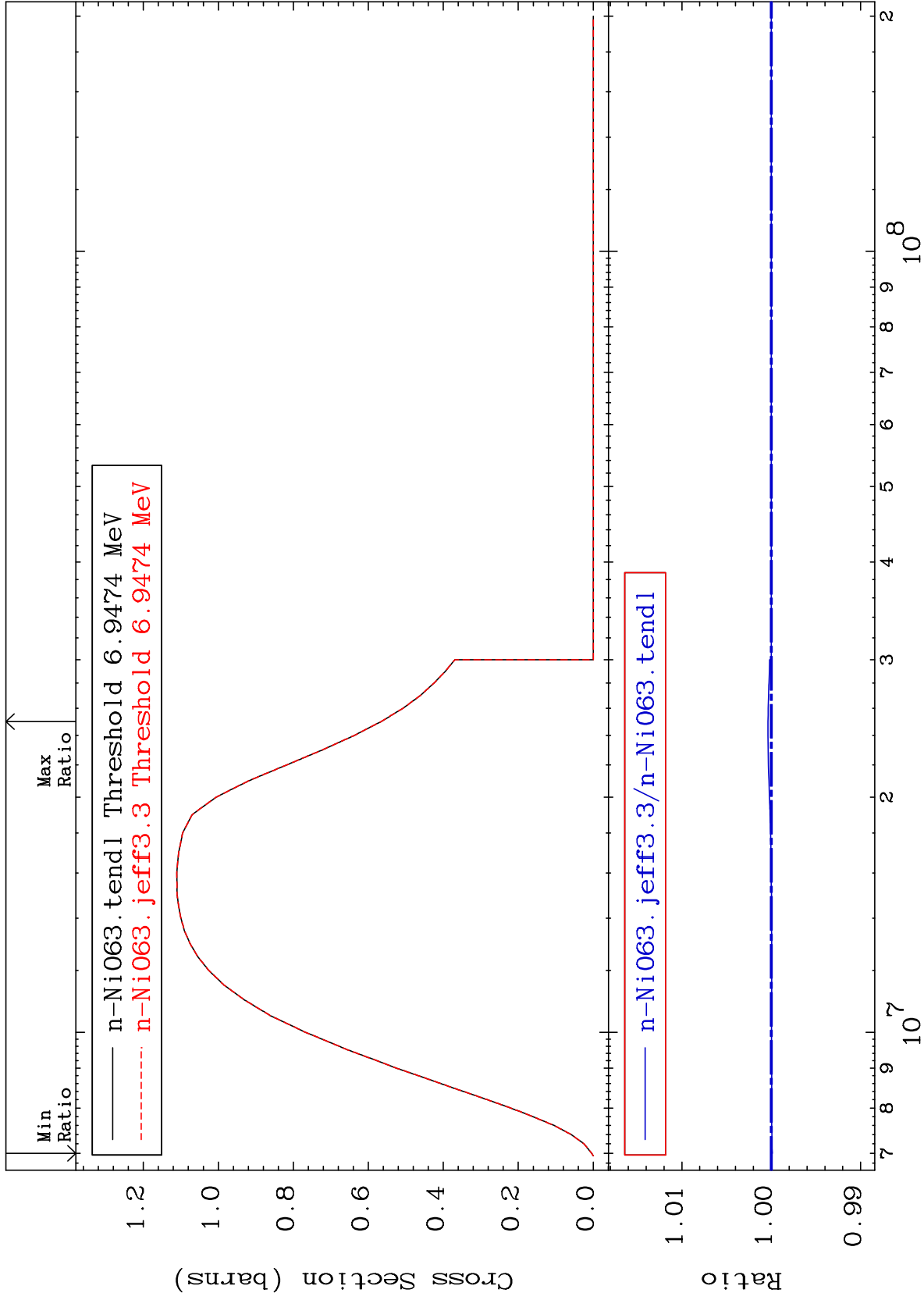
MAT 2840

(n,2n)

28-Ni-63

Cross Section

-0.012 To 0.037 %



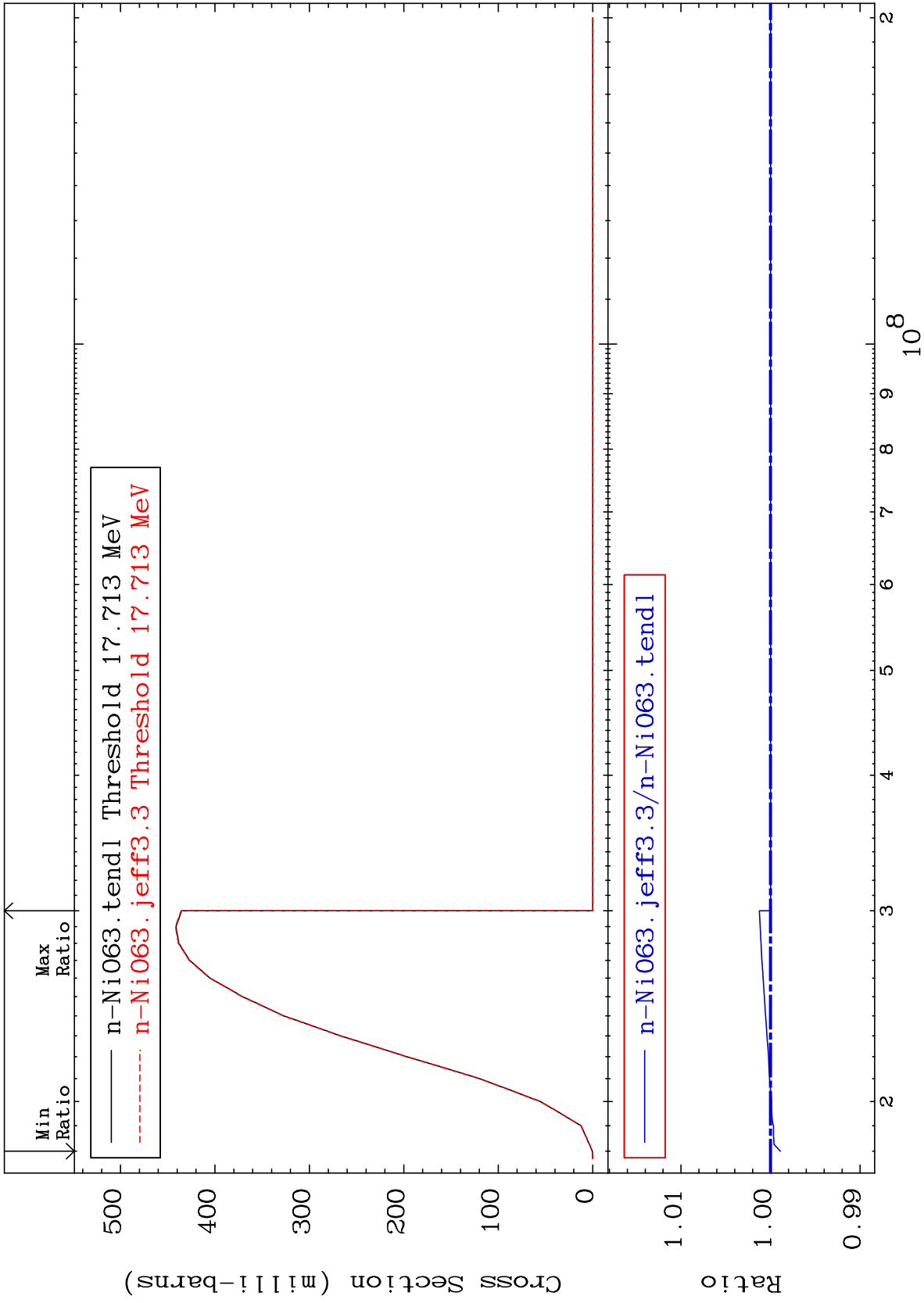
MAT 2840

(n,3n)

28-Ni-63

Cross Section

-0.111 To 0.125 %



5

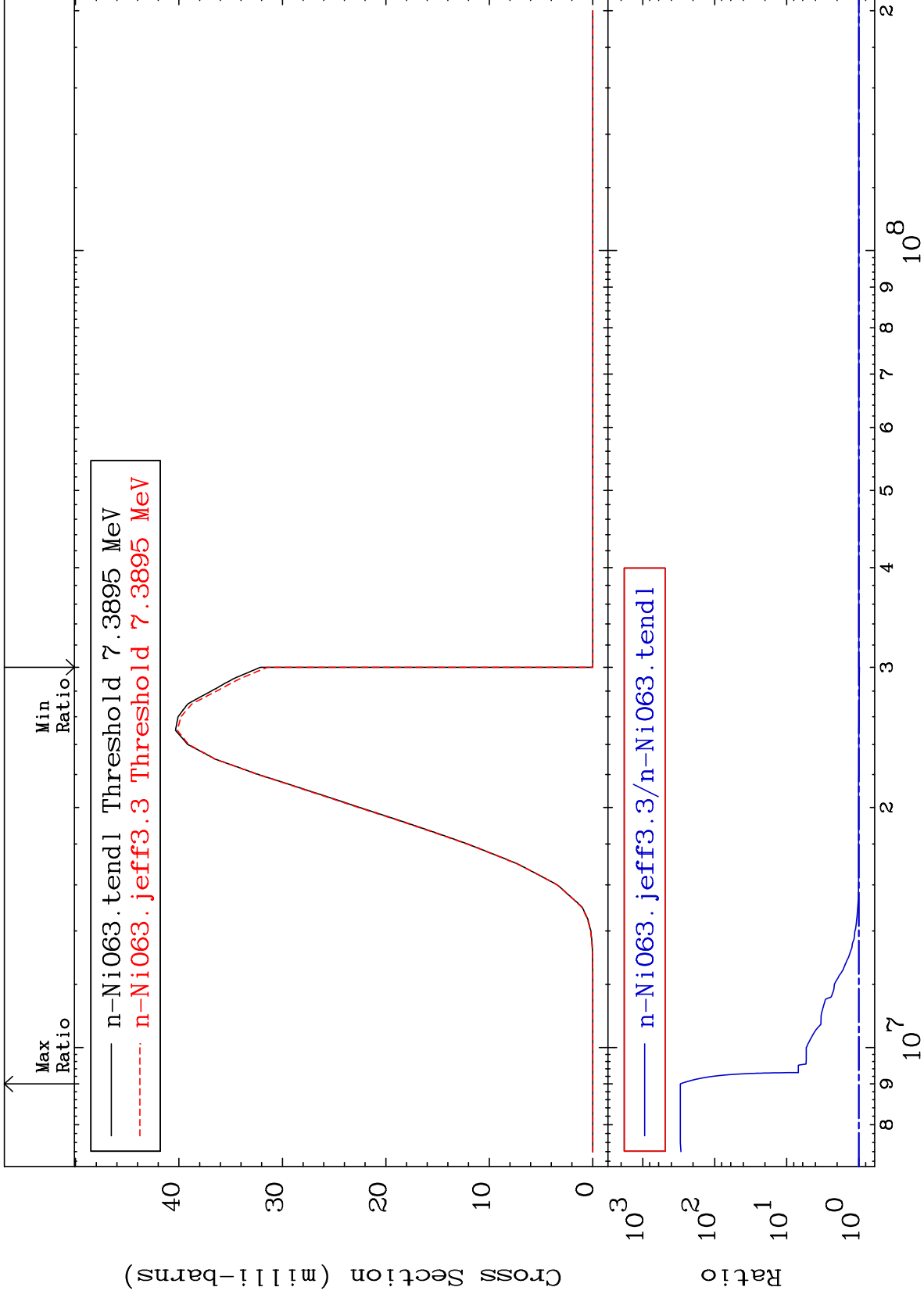
28-Ni-63

28-Ni-63

MAT 2840

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

28-Ni-63  
-2.121 To 9999. %



6

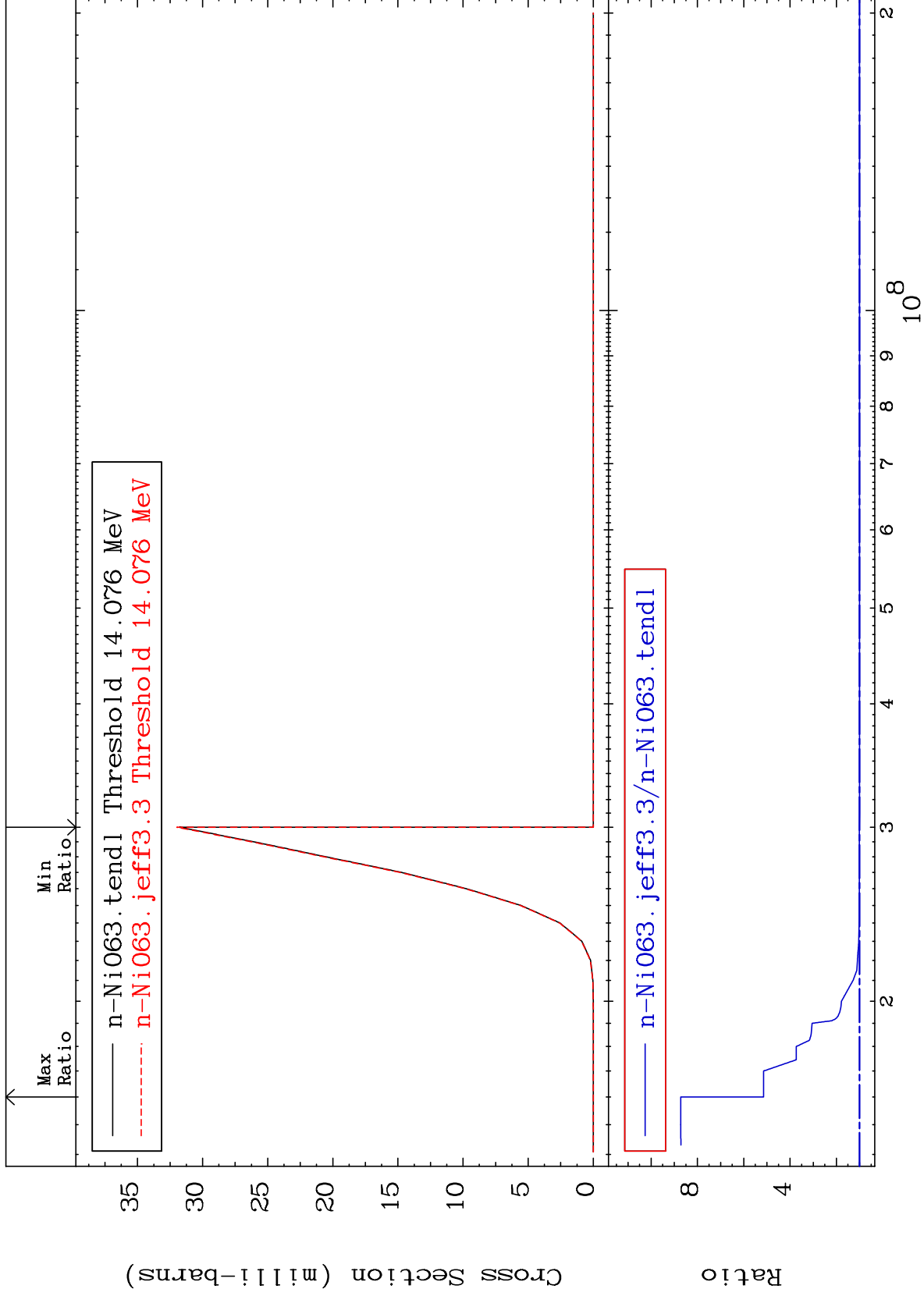
Incident Energy (eV)

28-Ni-63

MAT 2840

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

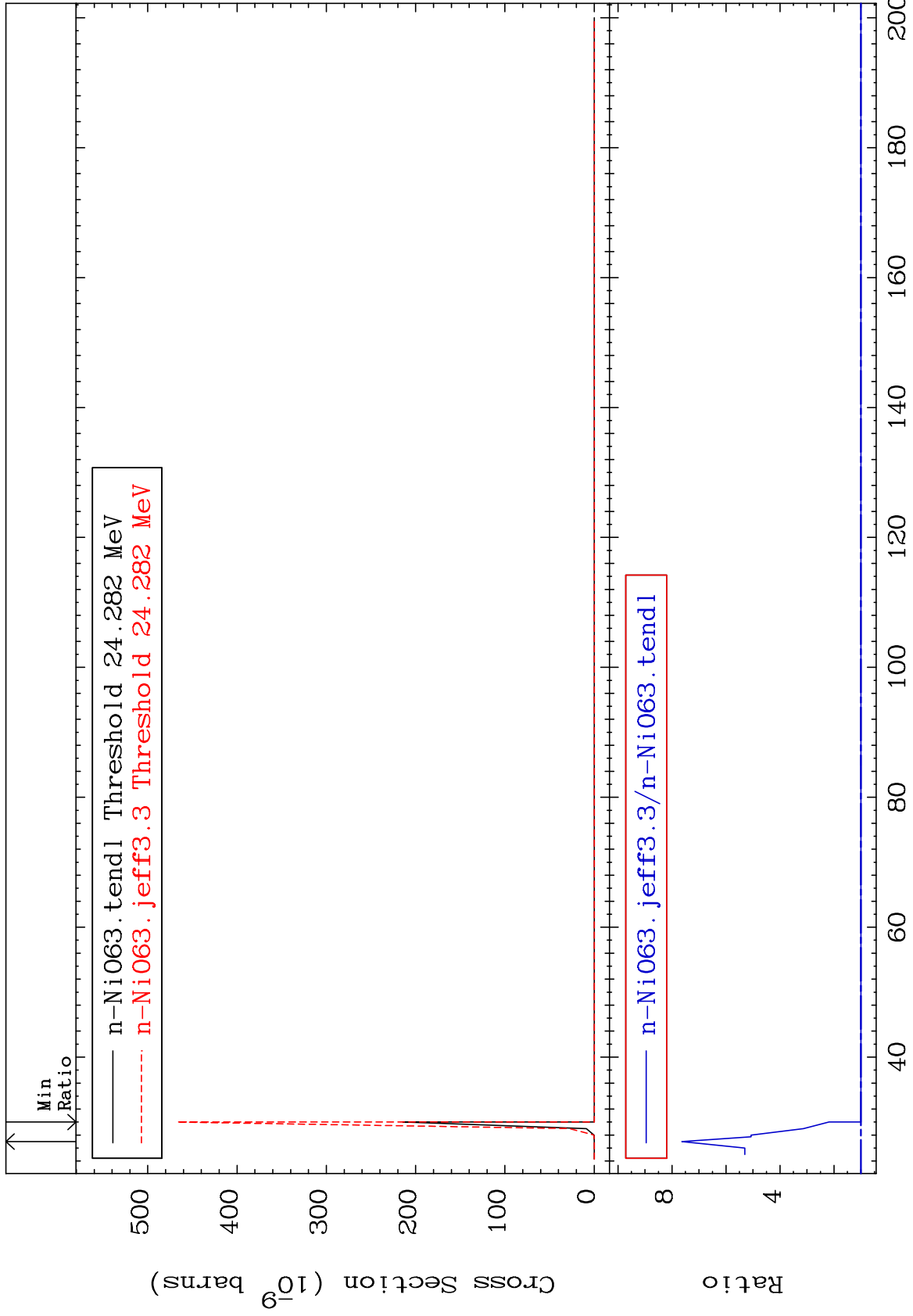
28-Ni-63  
To 772.0 %  
0.000



MAT 2840

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

28-Ni-63  
0.000 To 663.3 %

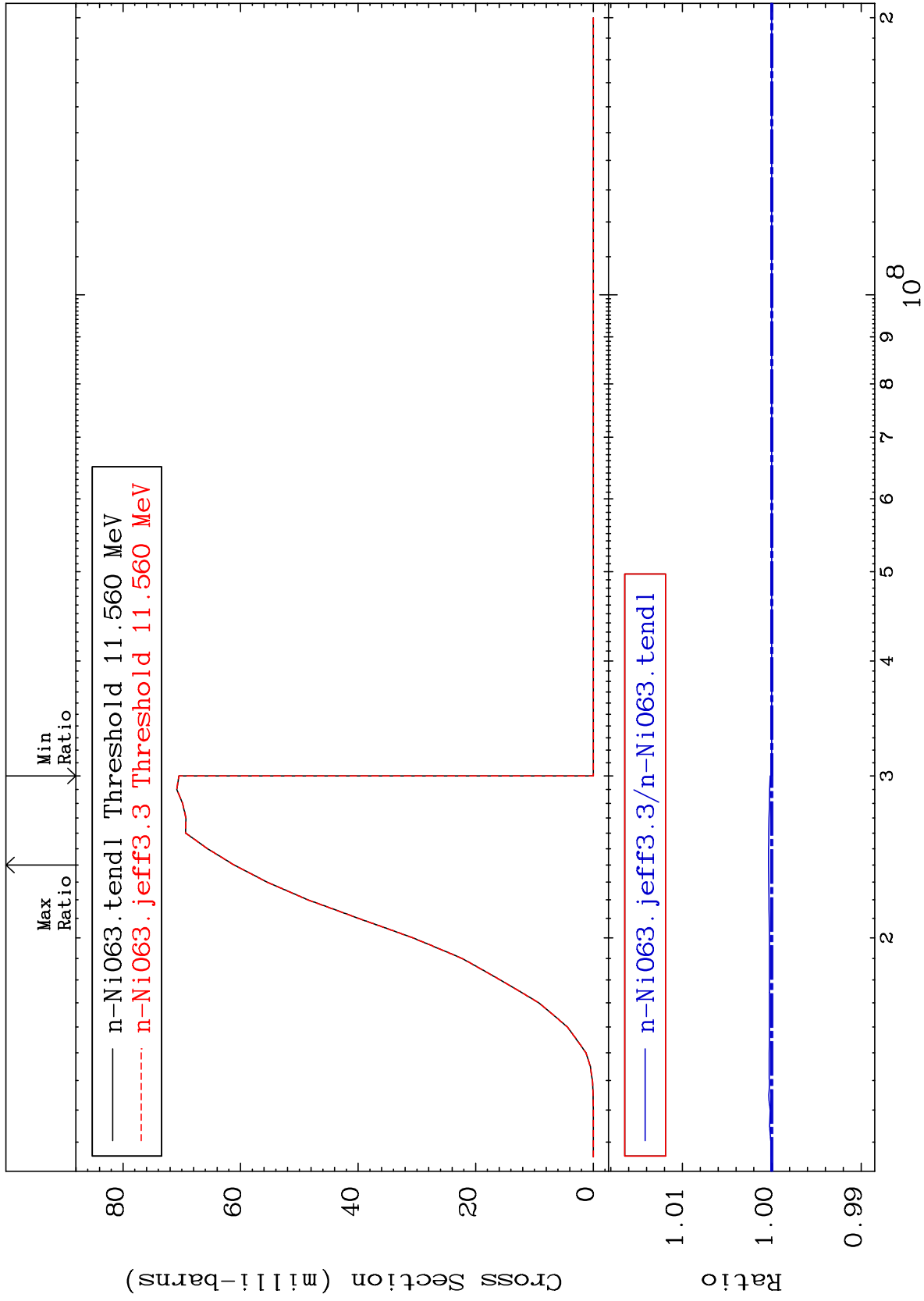




MAT 2840

(n,n') p  
Cross Section

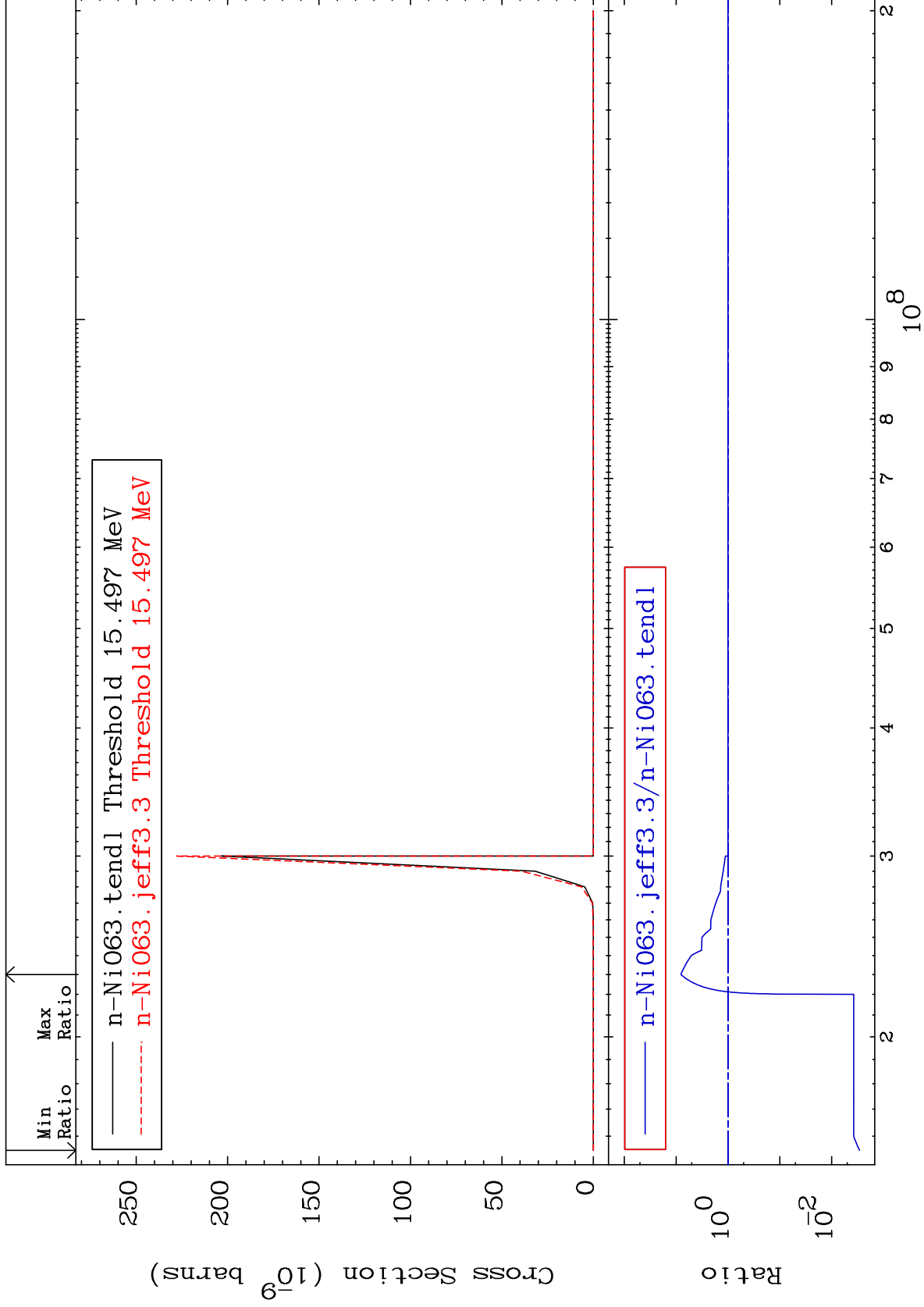
28-Ni-63  
0.000 To 0.036 %



MAT 2840

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

28-Ni-63  
-99.71 To 712.5 %



10

Incident Energy (eV)

28-Ni-63

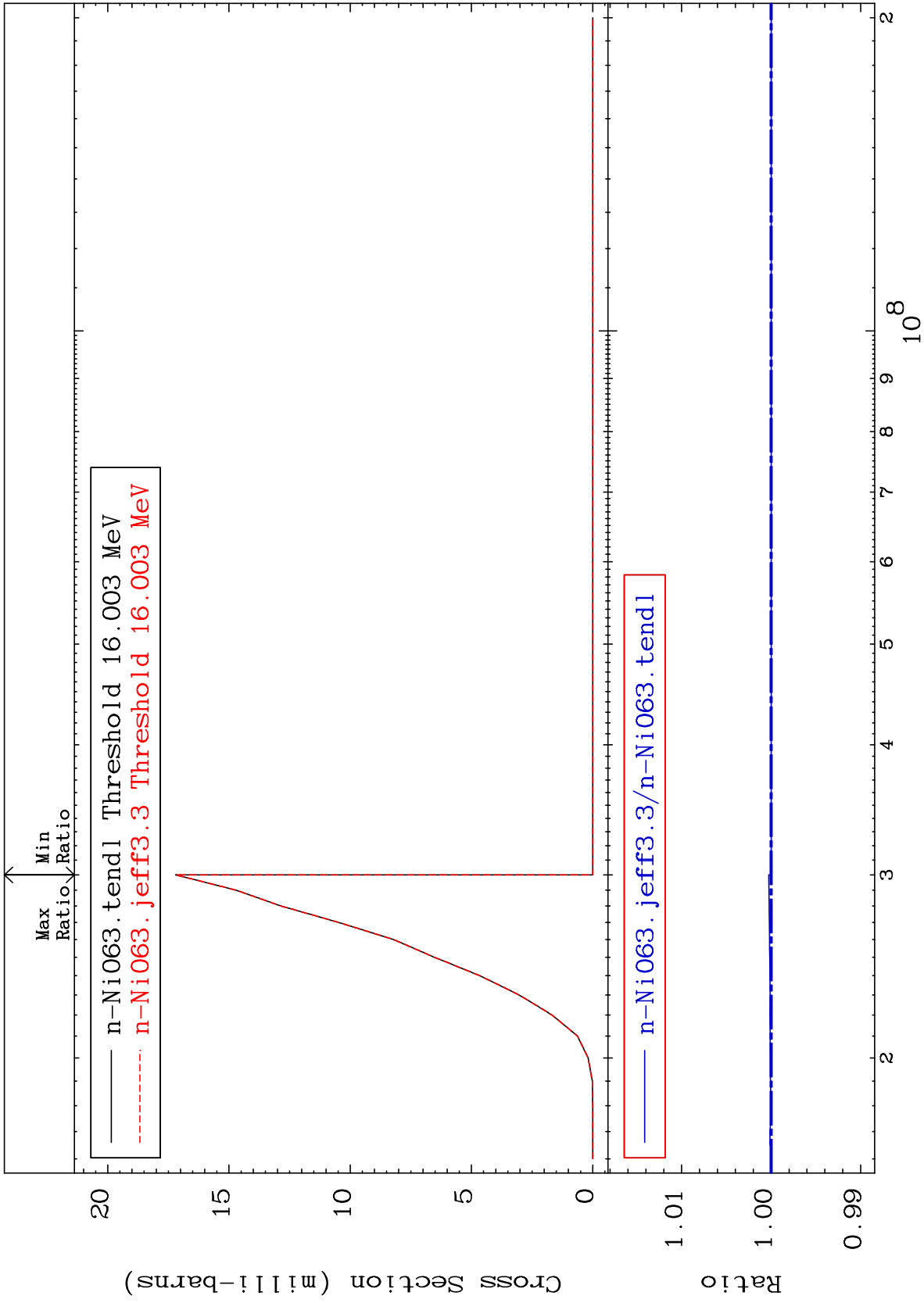
MAT 2840

(n,n') d

28-Ni-63

Cross Section

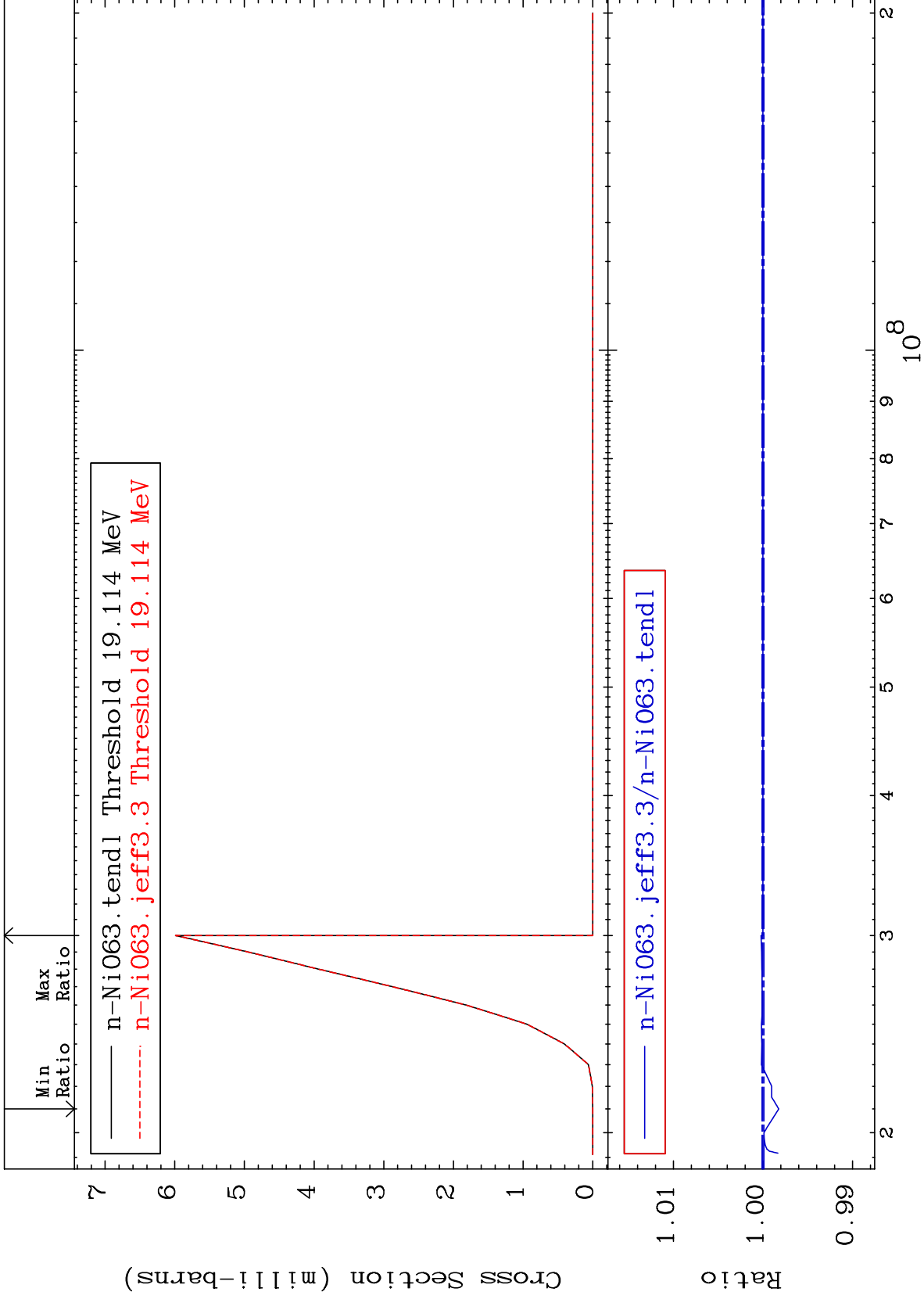
0.000 To 0.028 %



MAT 2840

(n,n') t  
Cross Section

28-Ni-63  
-0.176 To 0.022 %



12

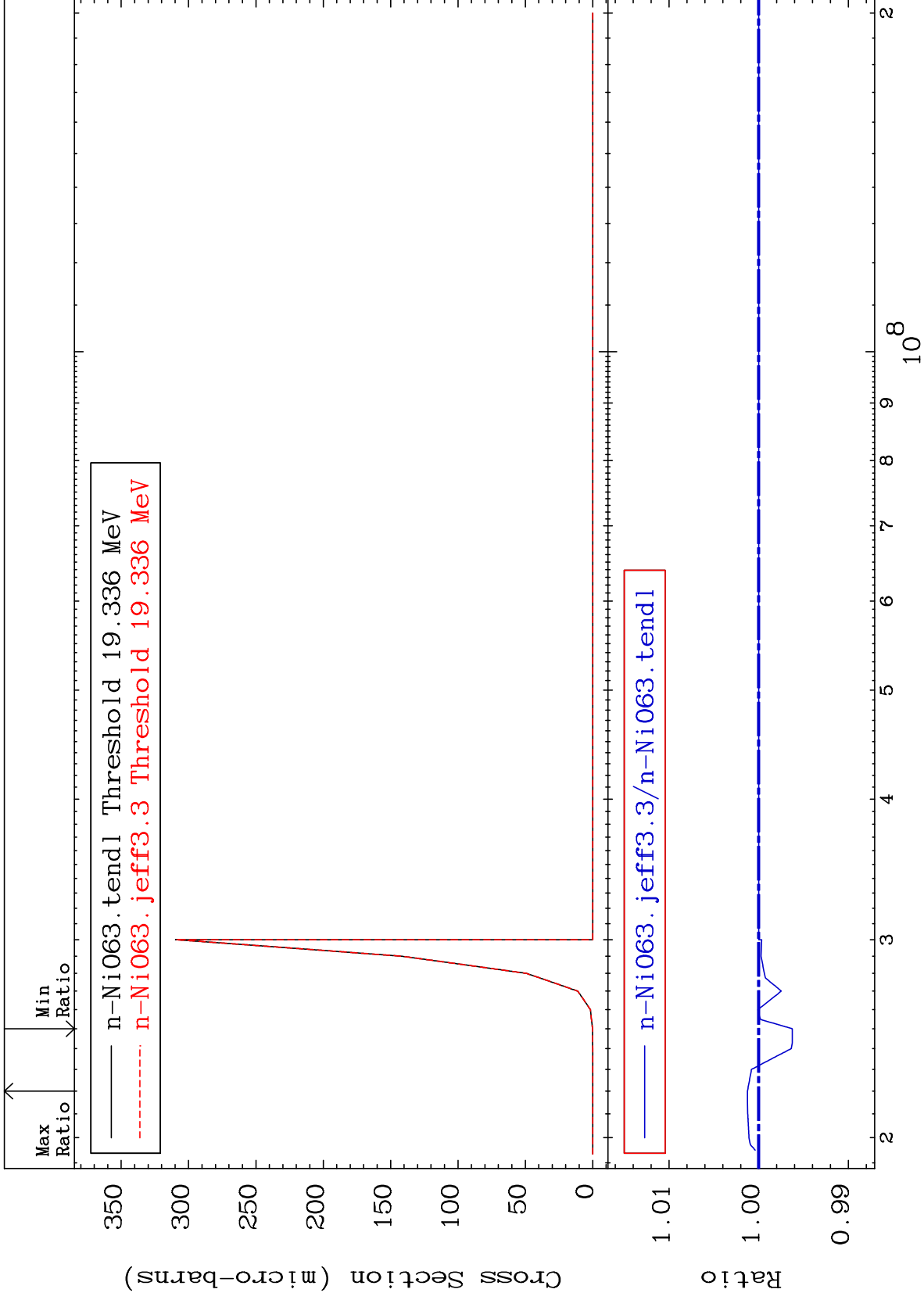
28-Ni-63

28-Ni-63

MAT 2840

(n, n') He-3  
Cross Section

28-Ni-63  
-0.376 To 0.125 %



13

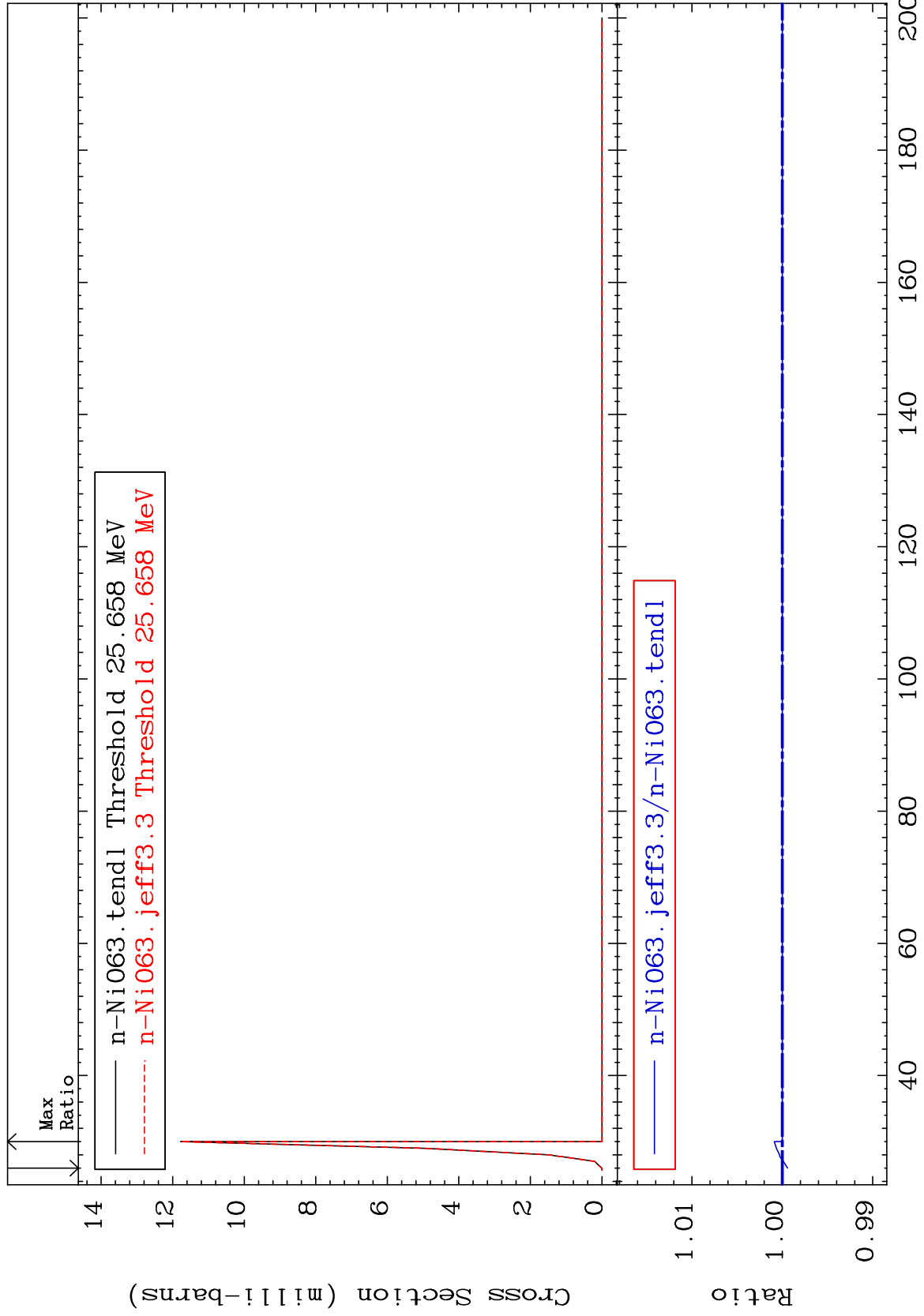
28-Ni-63

28-Ni-63

MAT 2840

(n,4n)  
Cross Section

28-Ni-63  
-0.058 To 0.088 %



14

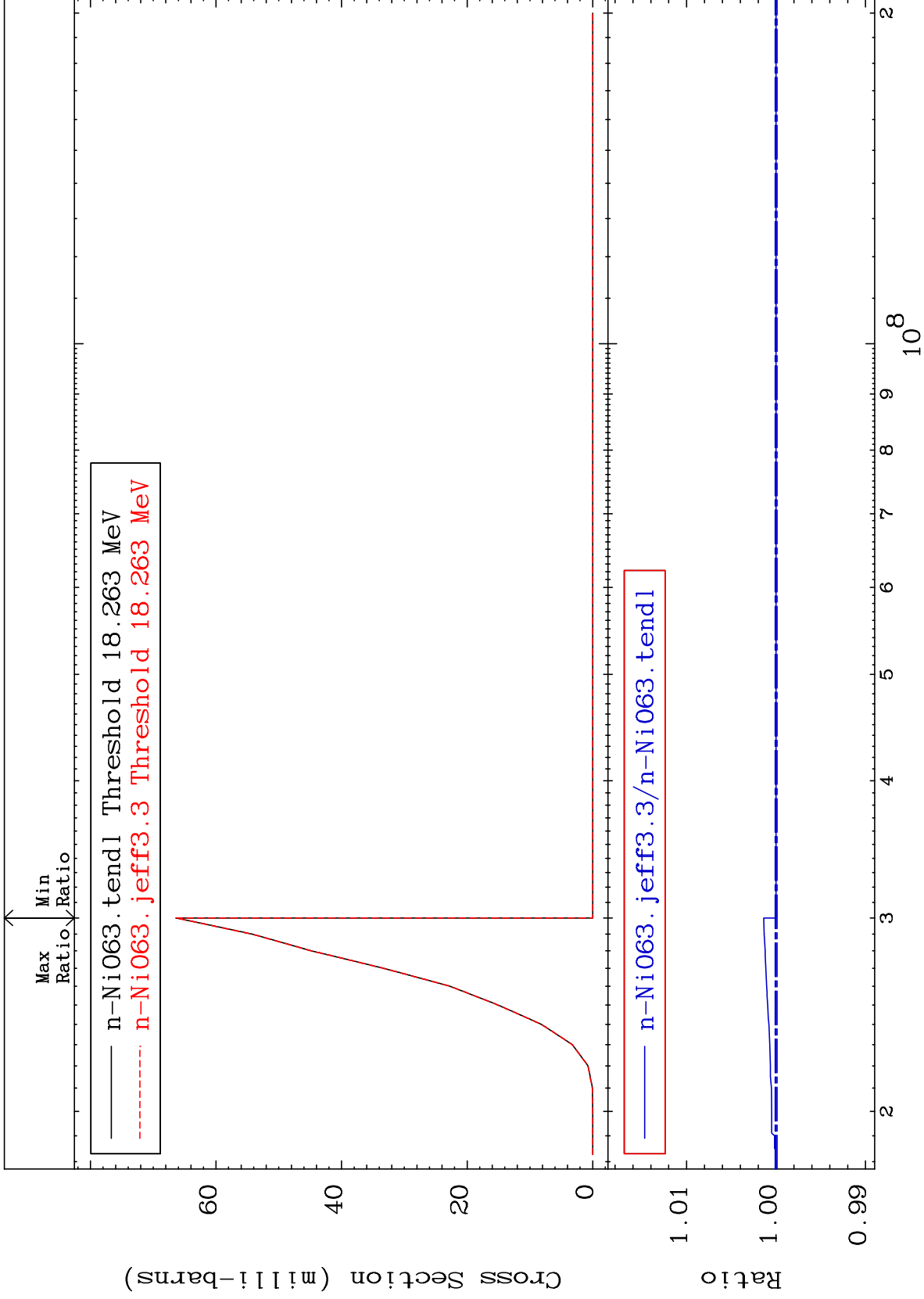
Incident Energy (MeV)

28-Ni-63

MAT 2840

(n,2n) p  
Cross Section

28-Ni-63  
To 0.139 %



15

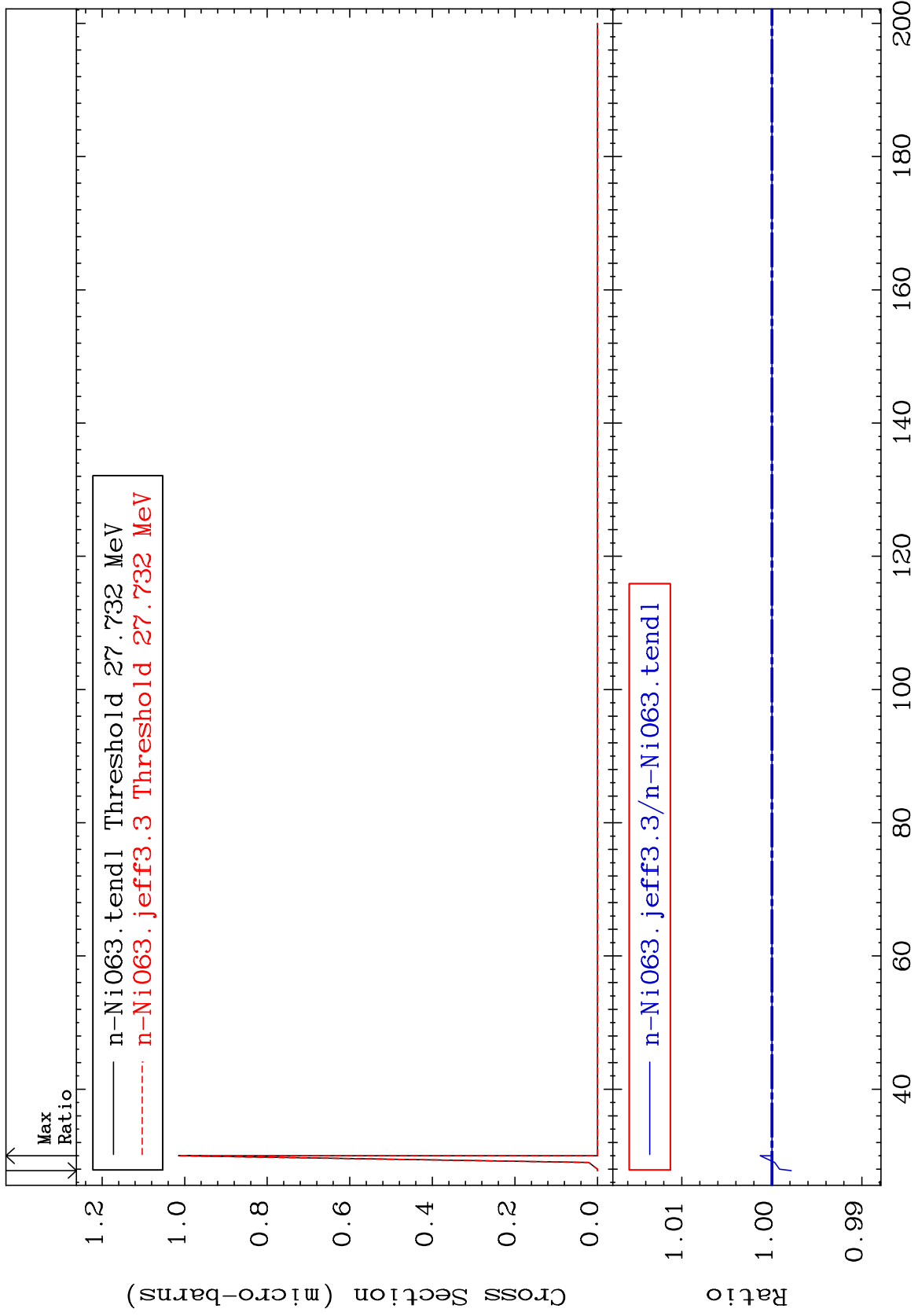
Incident Energy (eV)

28-Ni-63

MAT 2840

(n,3n) p  
Cross Section

28-Ni-63  
-0.214 To 0.131 %

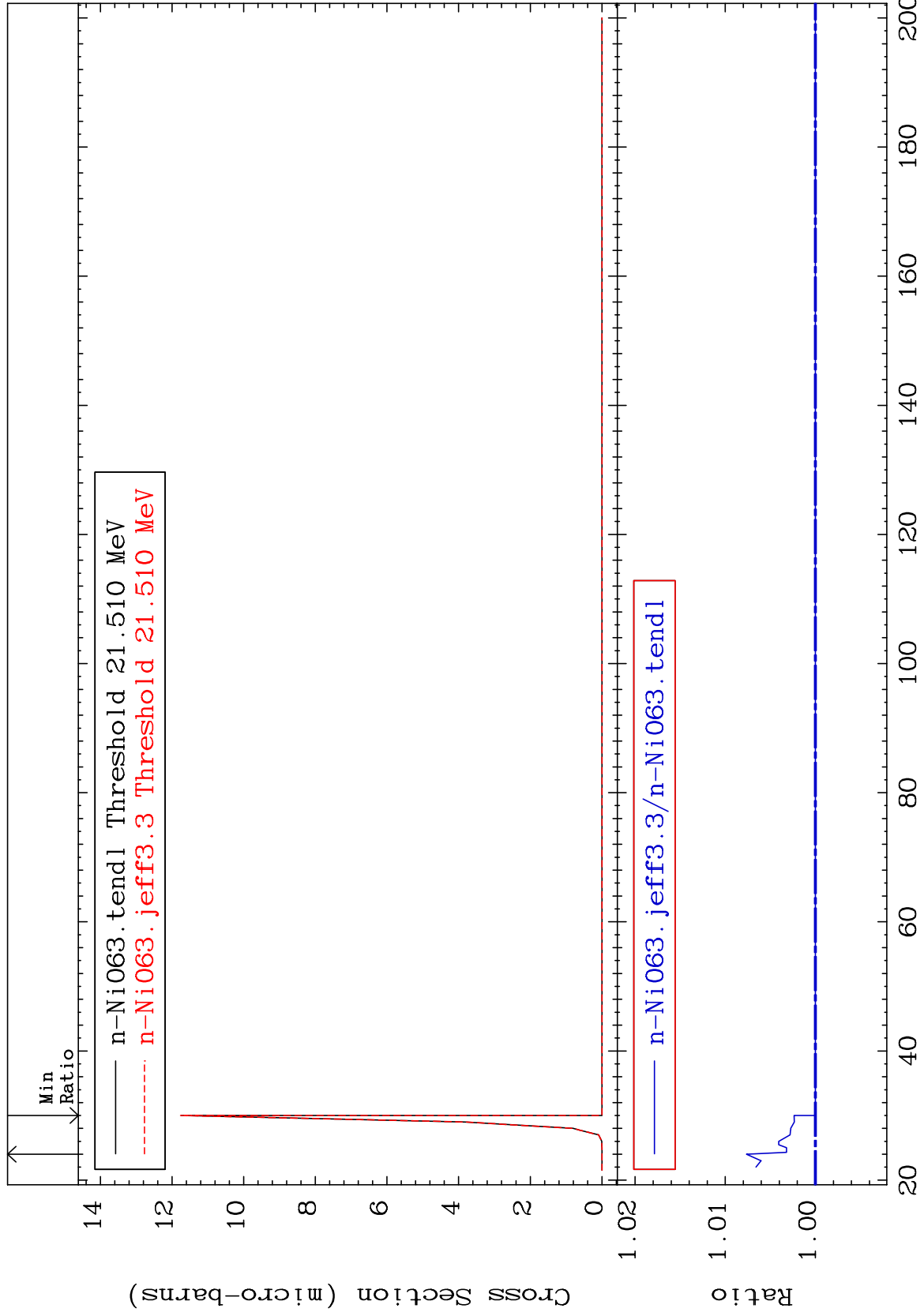




MAT 2840

(n,2n) p  
Cross Section

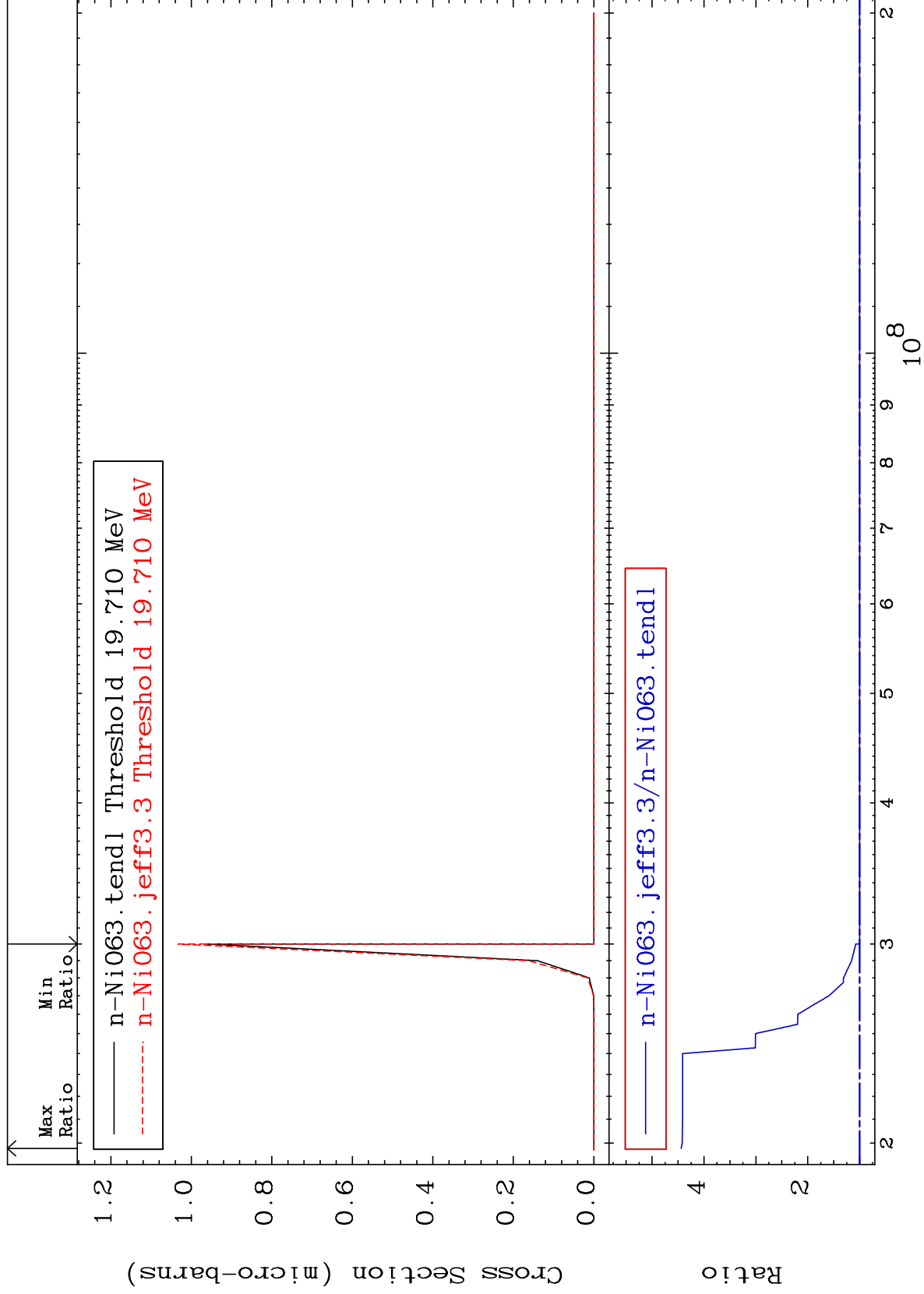
28-Ni-63  
0.000 To 0.764 %



MAT 2840

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

28-Ni-63  
0.000 To 343.9 %



18

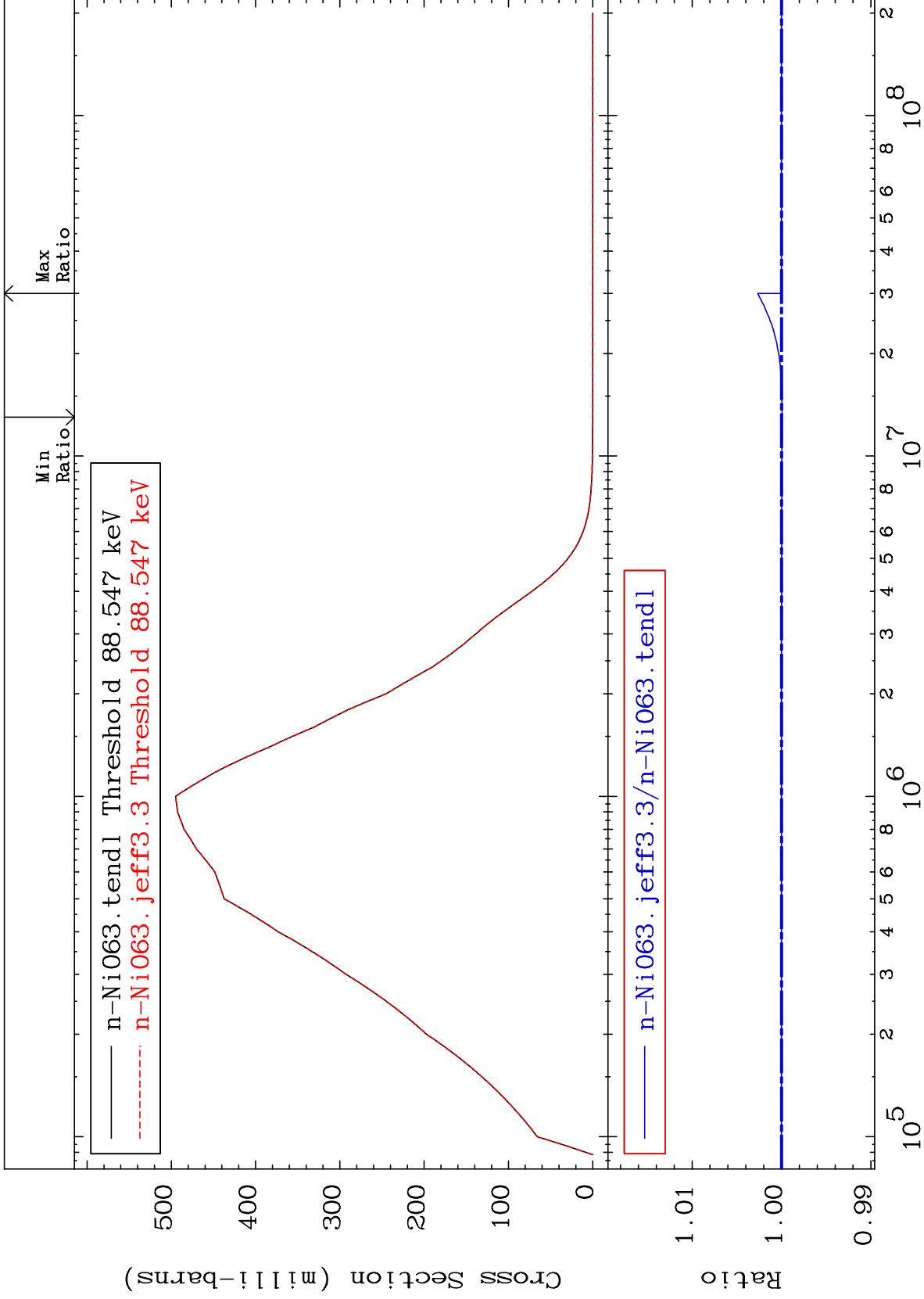
28-Ni-63

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.006 To 0.266 %



19

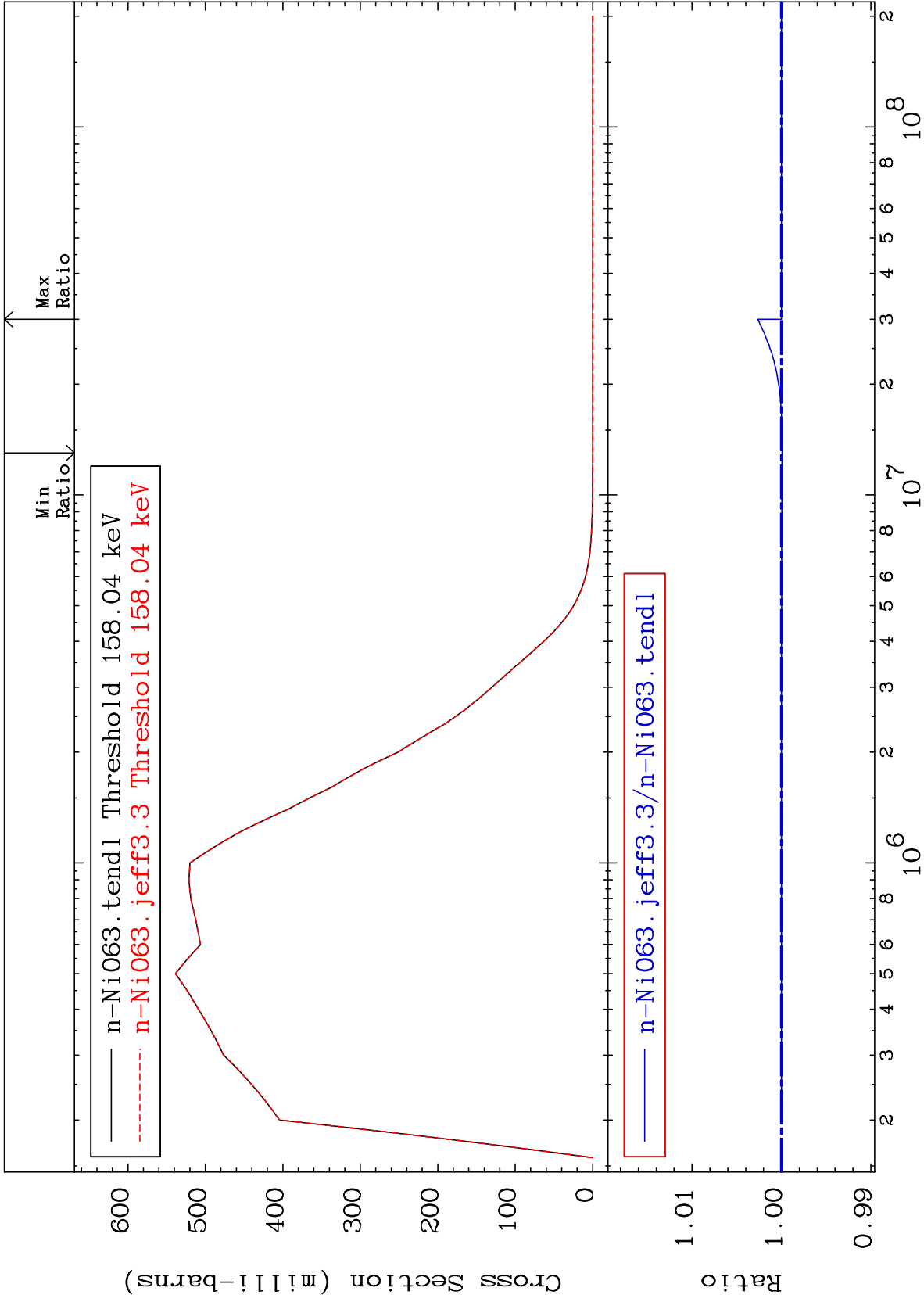
Incident Energy (eV)

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.006 To 0.265 %



20

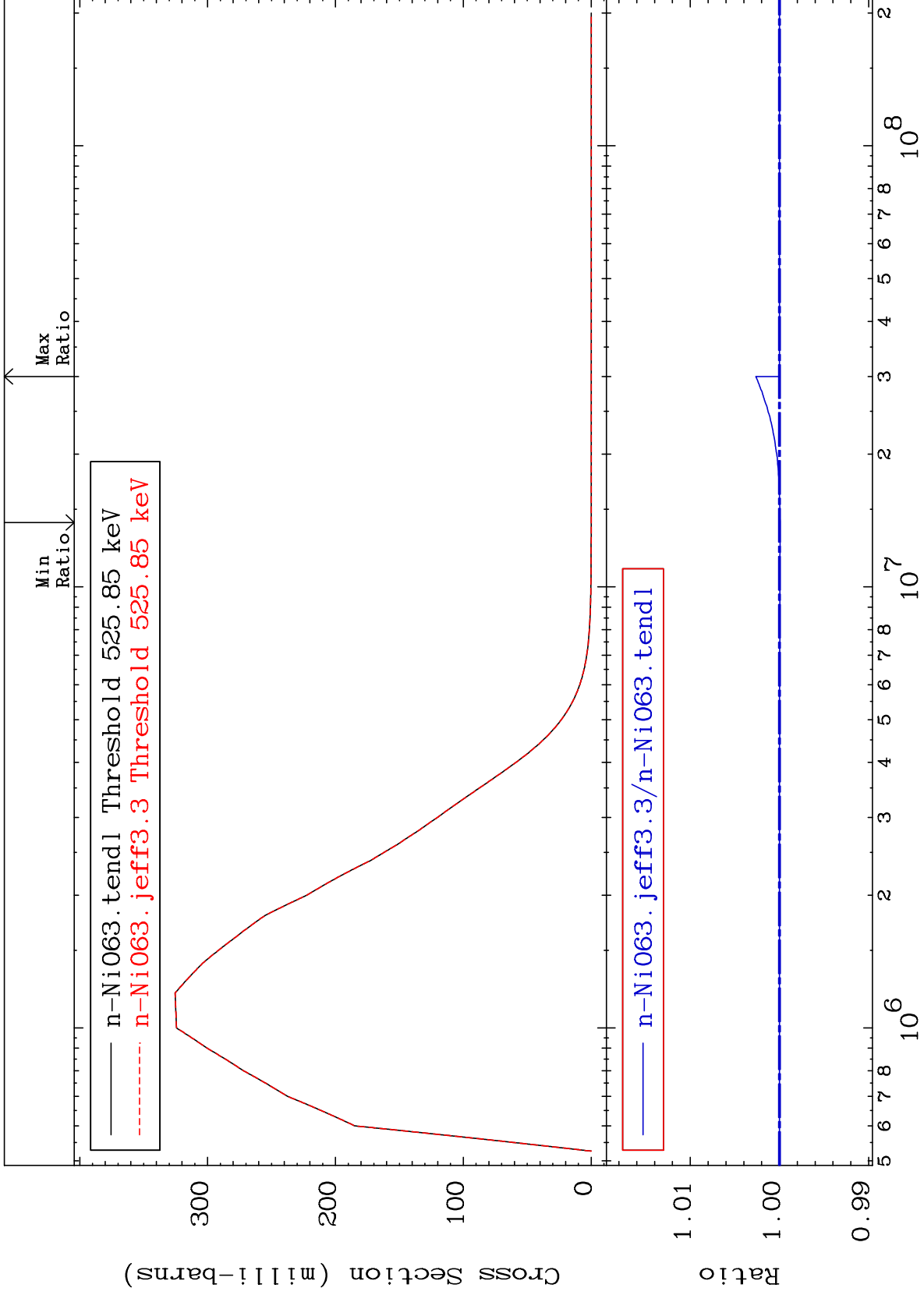
Incident Energy (eV)

28-Ni-63

MAT 2840

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

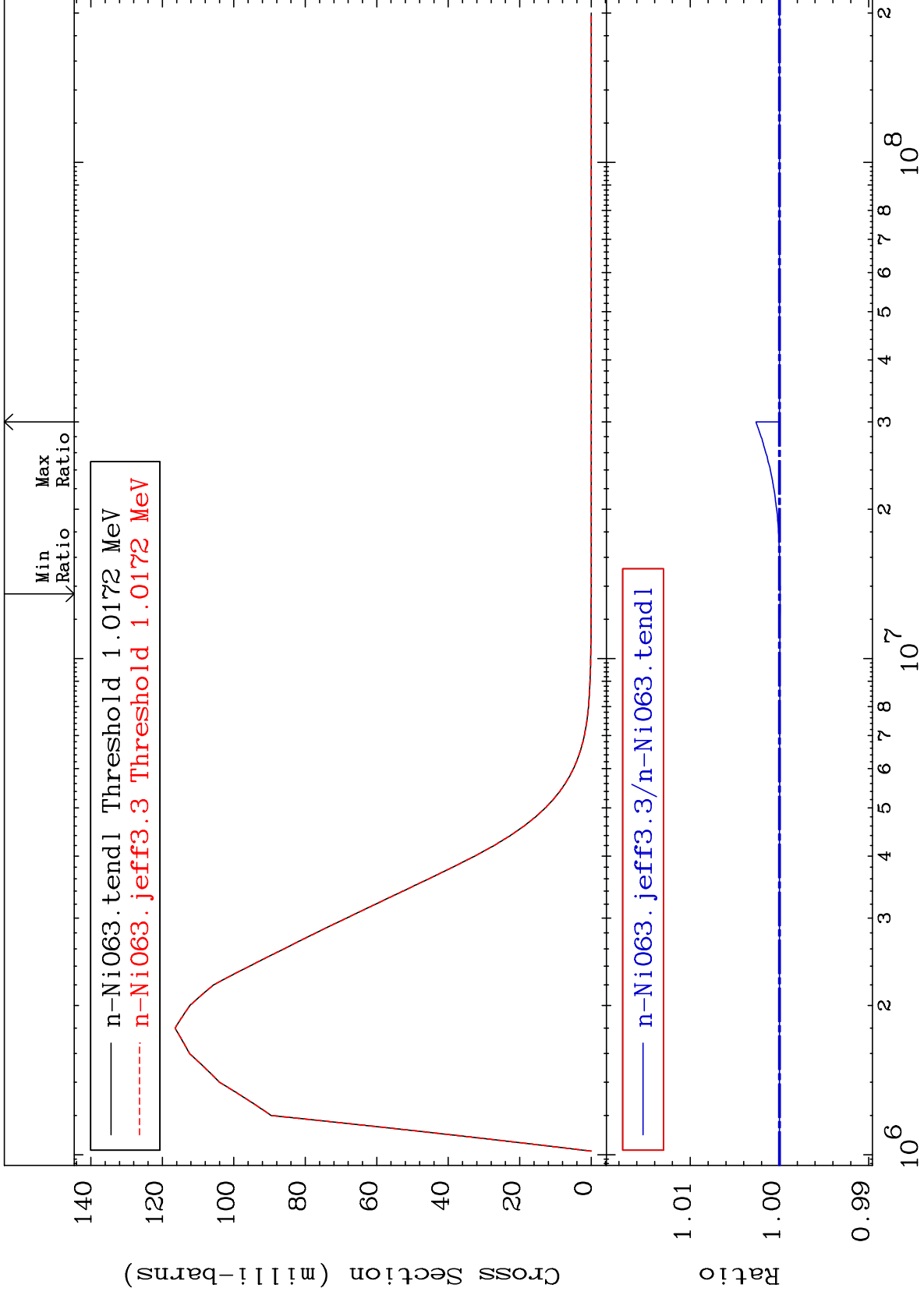
28-Ni-63  
-0.006 To 0.265 %



MAT 2840

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

28-Ni-63  
-0.006 To 0.264 %



22

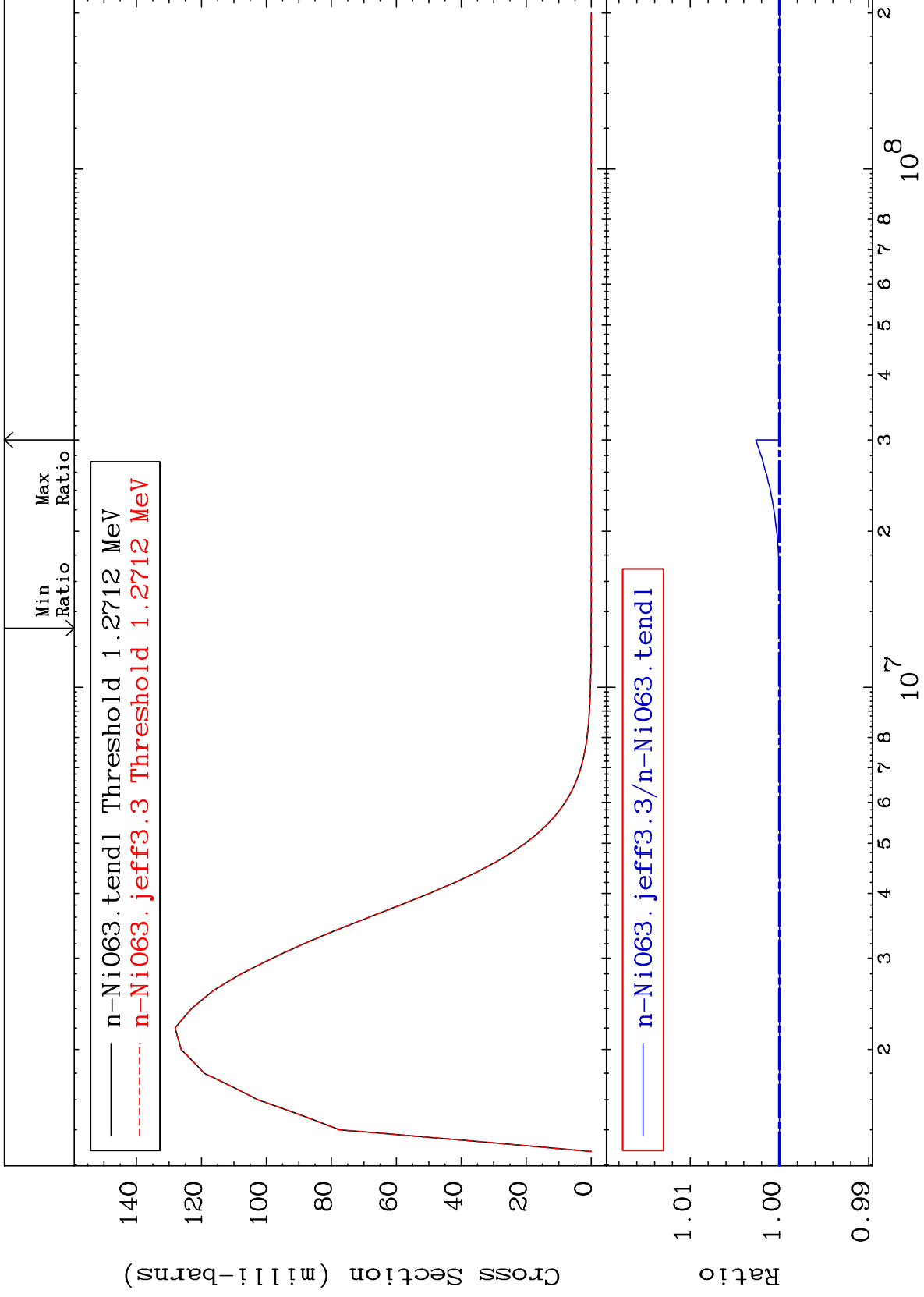
Incident Energy (eV)

28-Ni-63

MAT 2840

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

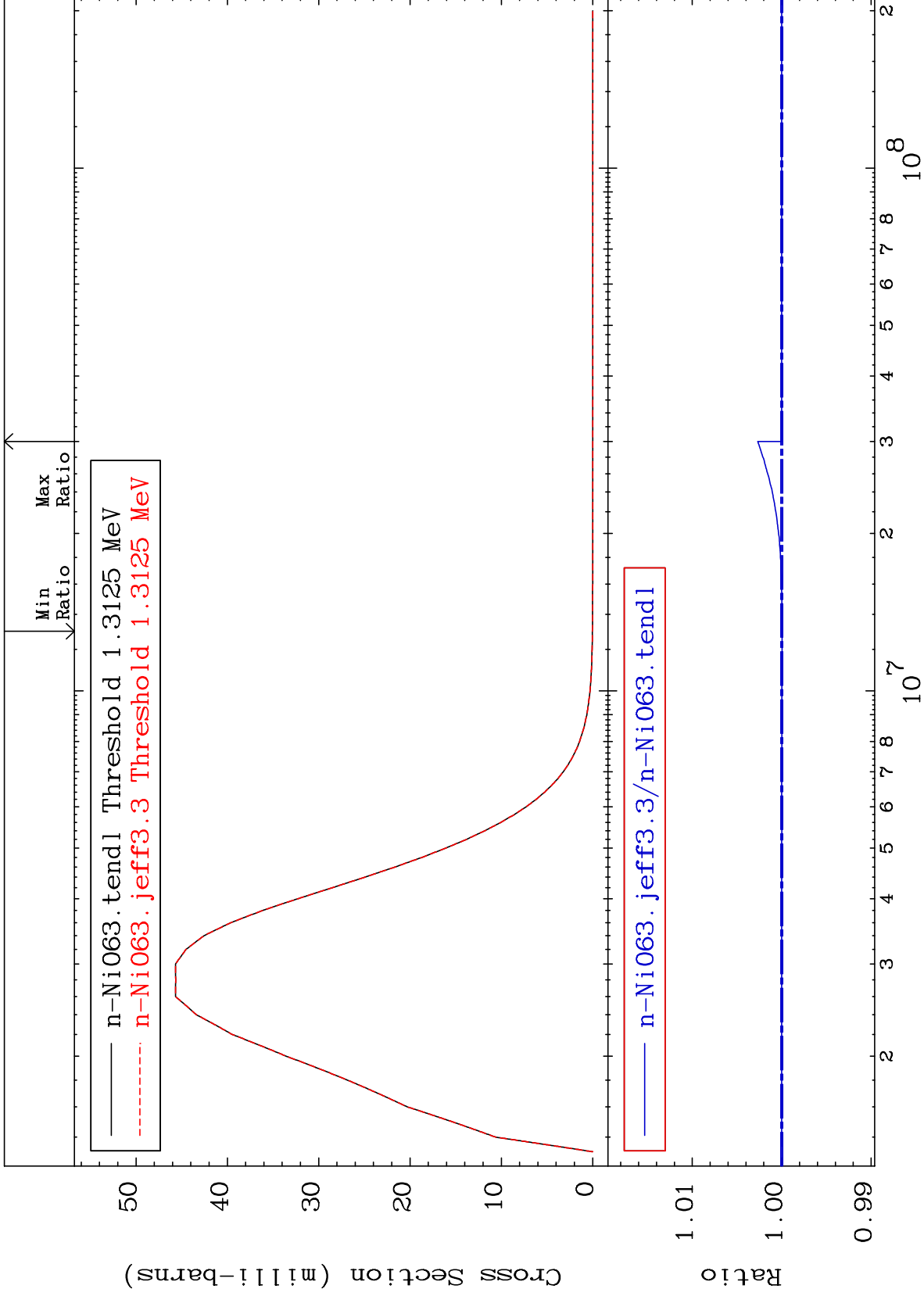
28-Ni-63  
-0.006 To 0.265 %



MAT 2840

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

28-Ni-63  
-0.004 To 0.268 %

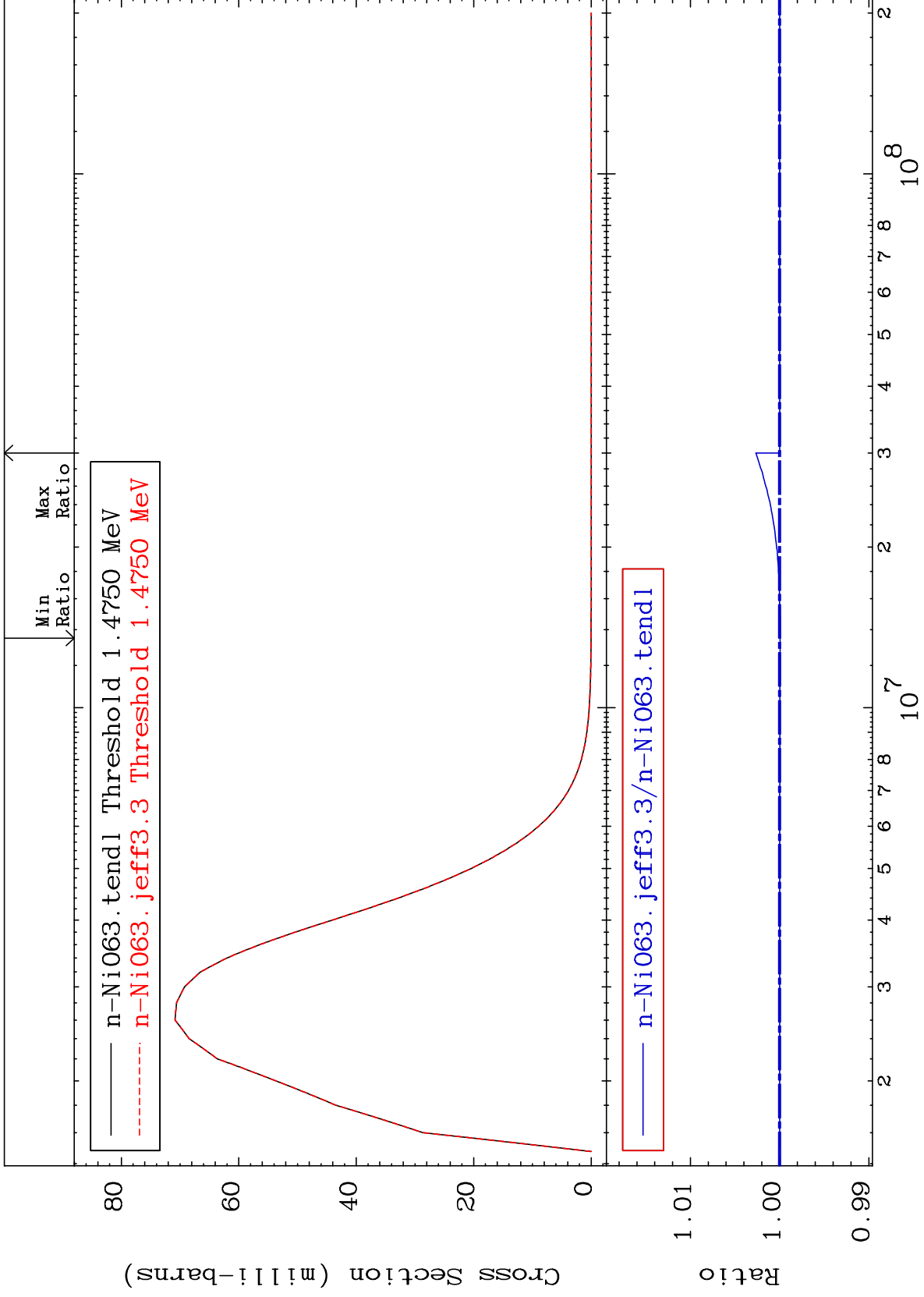




MAT 2840

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

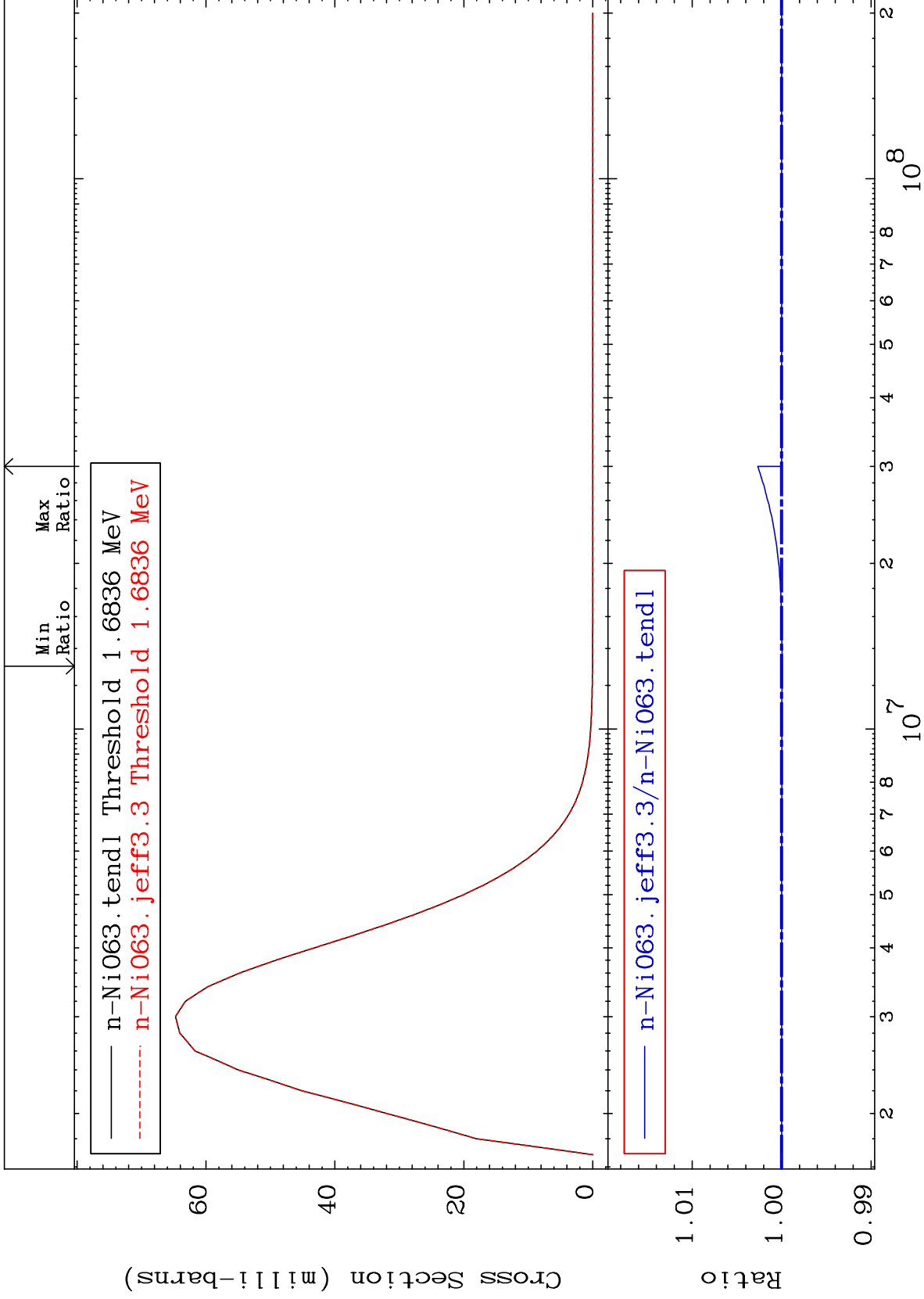
28-Ni-63  
-0.005 To 0.267 %



MAT 2840

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

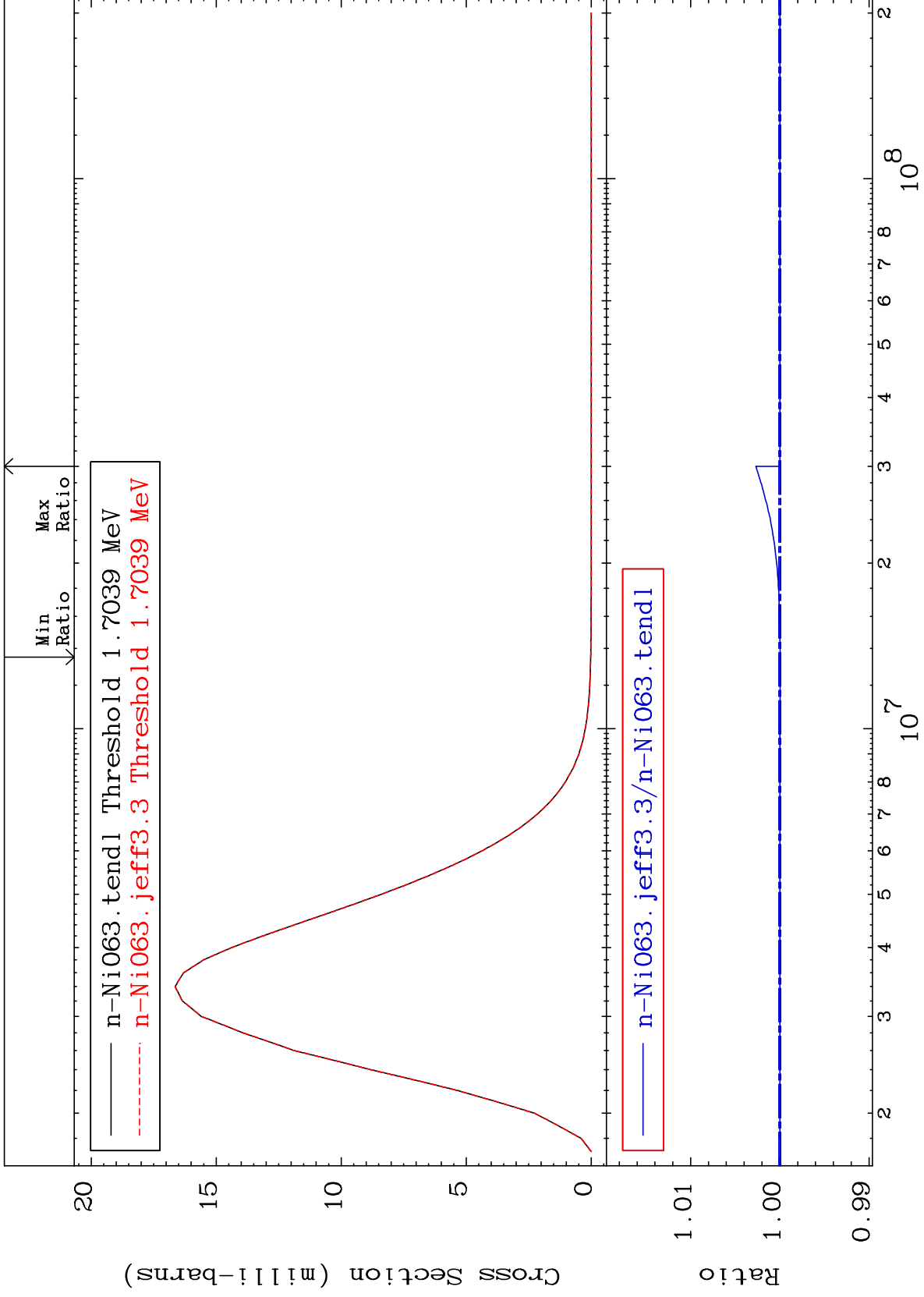
28-Ni-63  
-0.005 To 0.267 %



MAT 2840

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

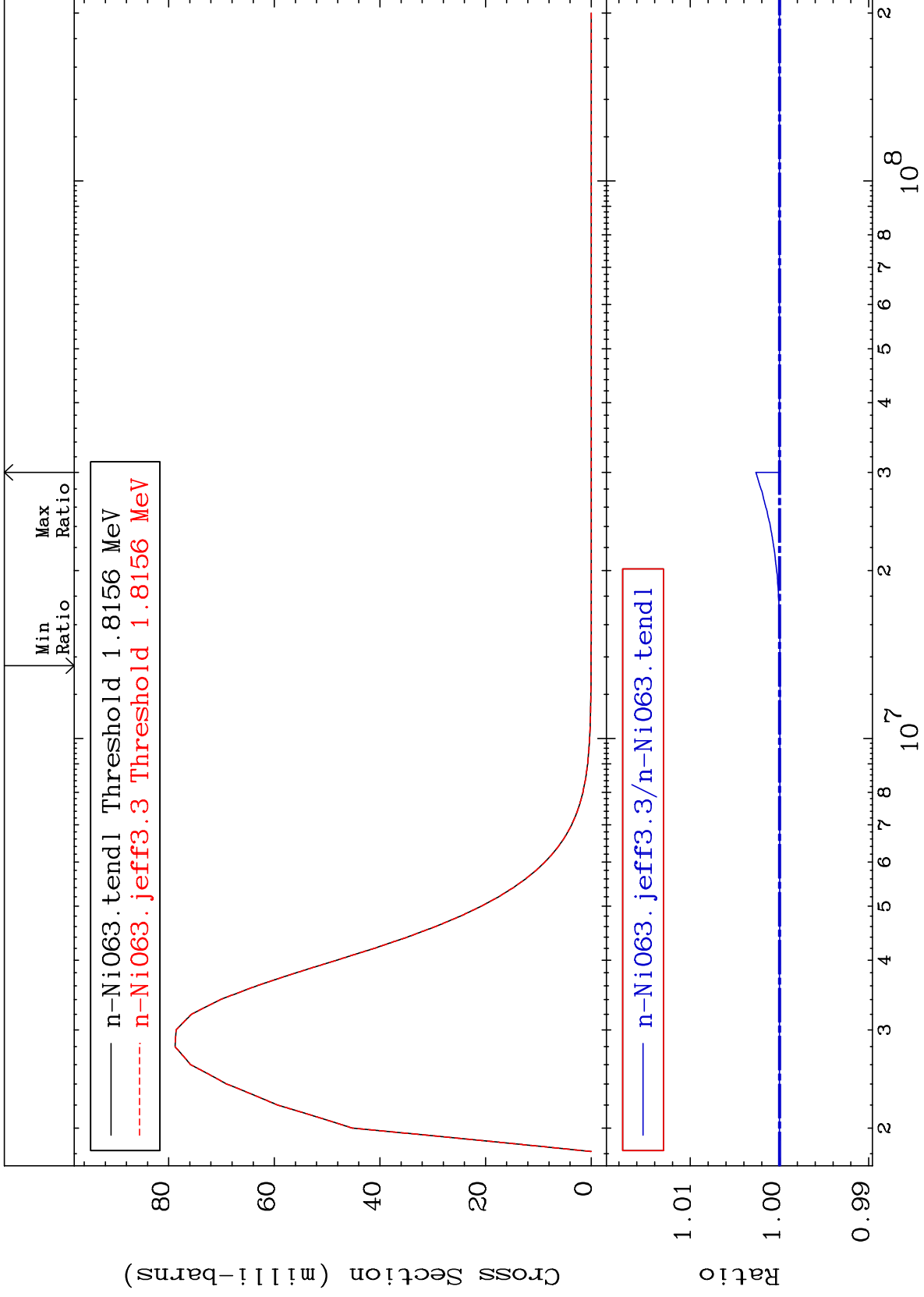
28-Ni-63  
-0.003 To 0.270 %



MAT 2840

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

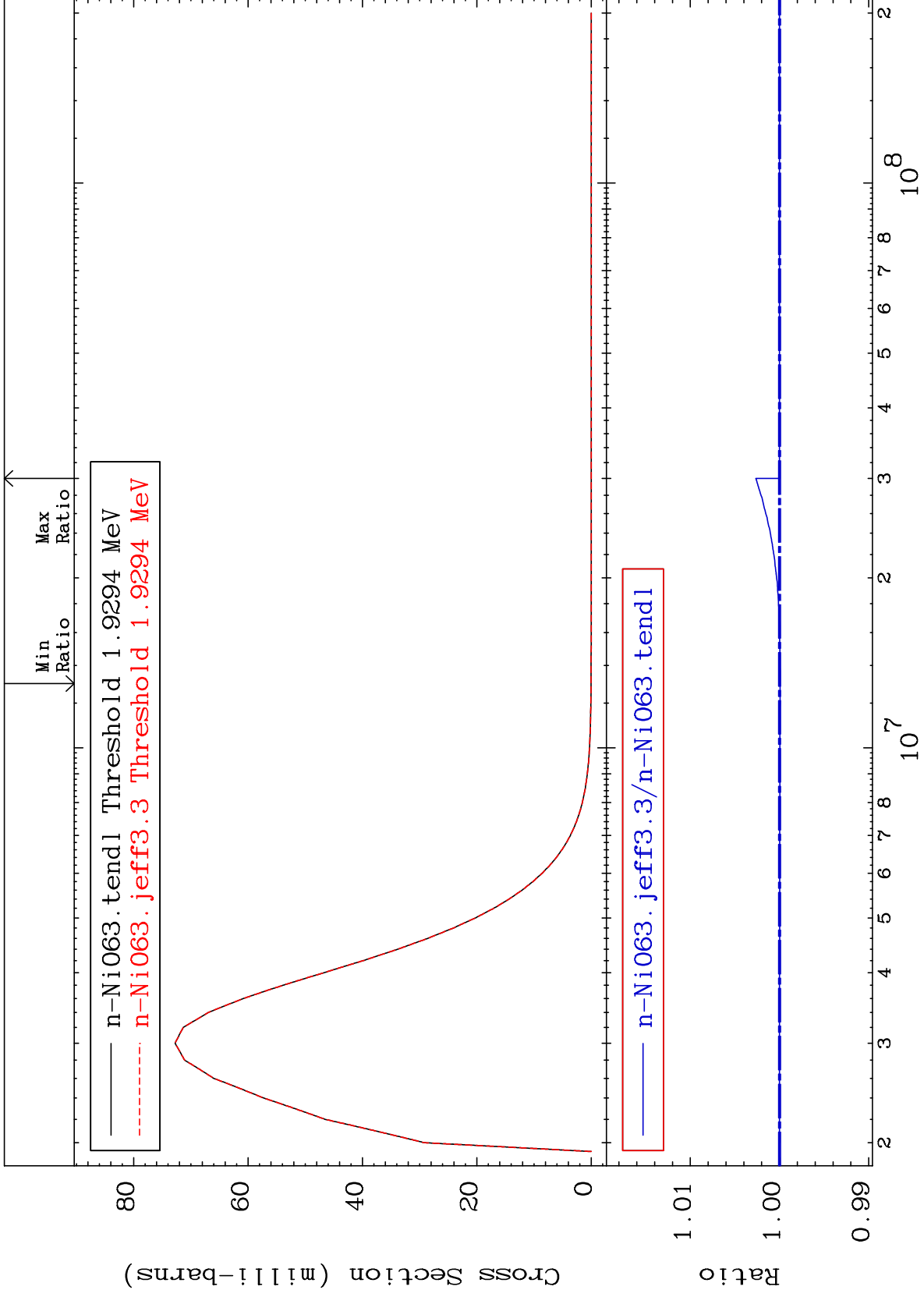
28-Ni-63  
-0.006 To 0.265 %



MAT 2840

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

28-Ni-63  
-0.006 To 0.265 %



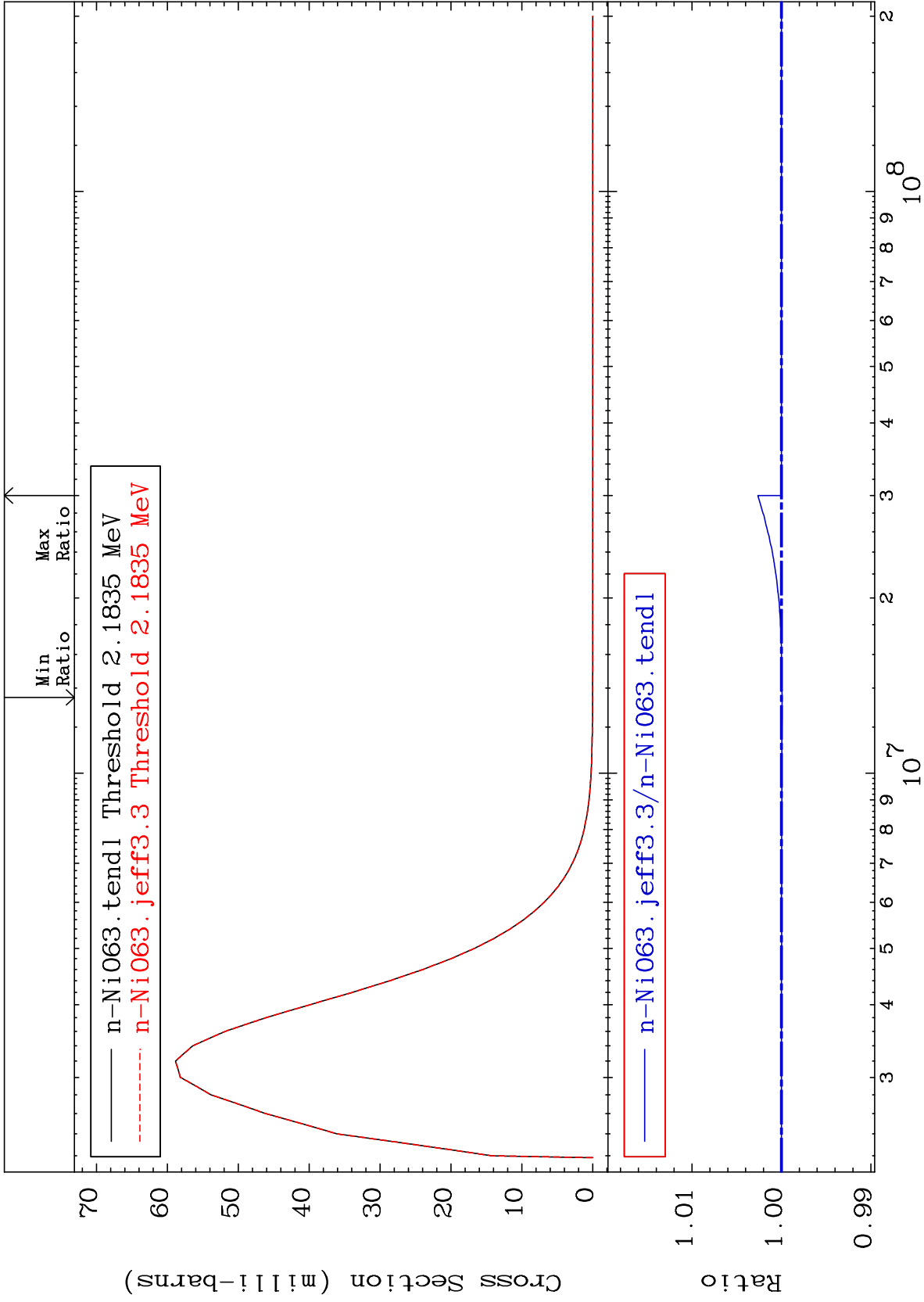
MAT 2840

MT= 64 (n,n') Level

28-Ni-63

-0.007 To 0.264 %

Cross Section



30

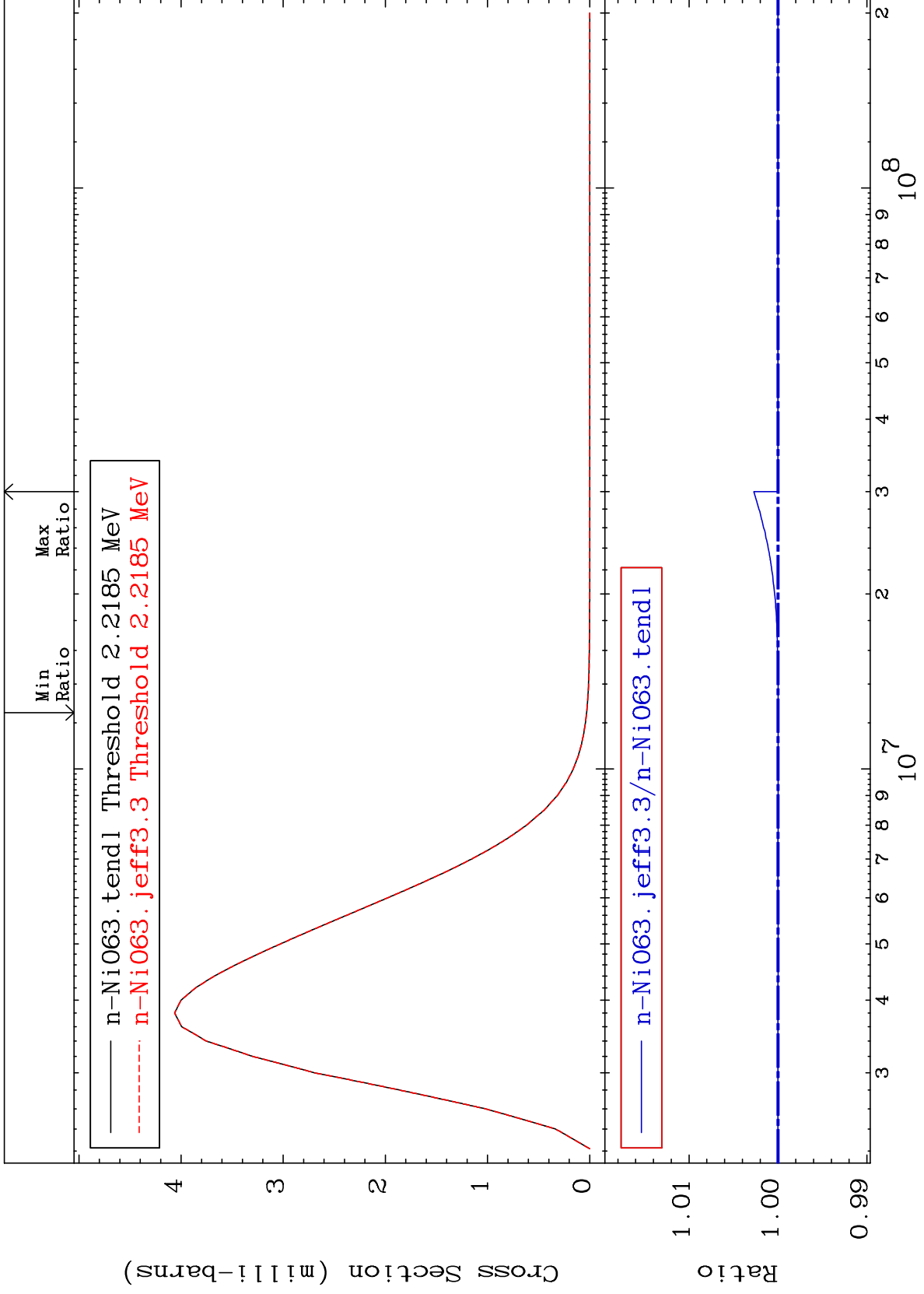
Incident Energy (eV)

28-Ni-63

MAT 2840

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

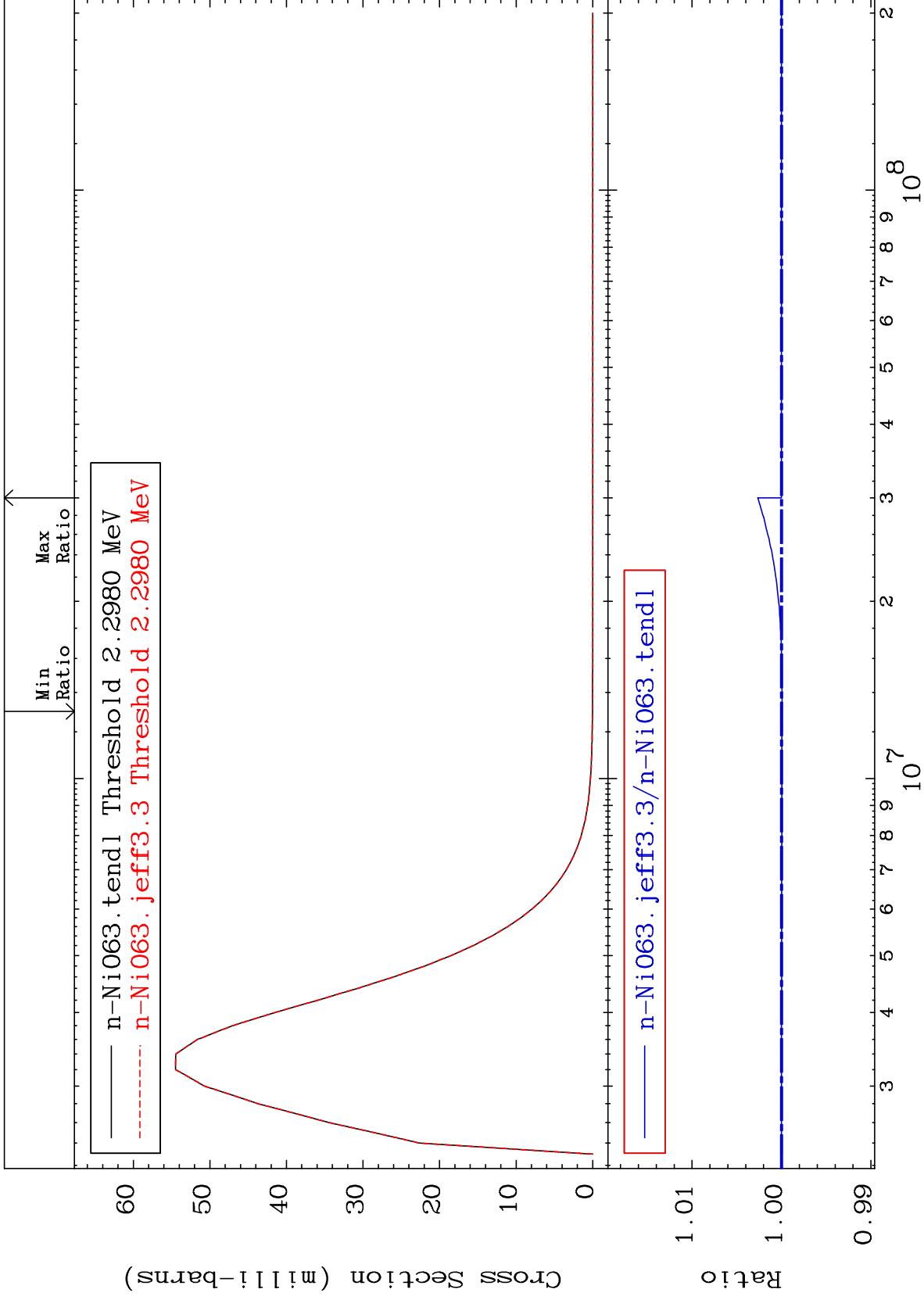
28-Ni-63  
-0.003 To 0.272 %



MAT 2840

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

28-Ni-63  
-0.006 To 0.265 %

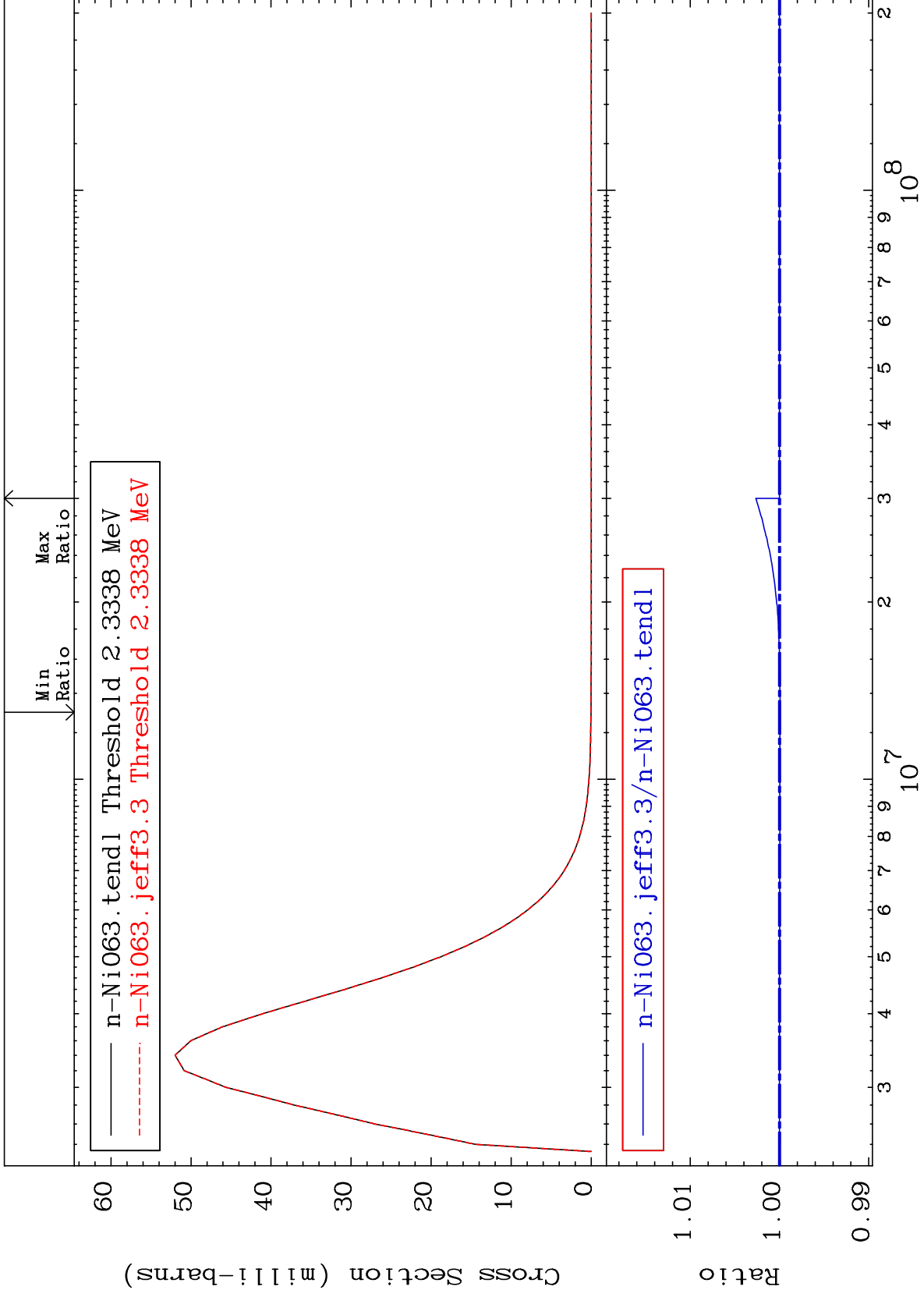




MAT 2840

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

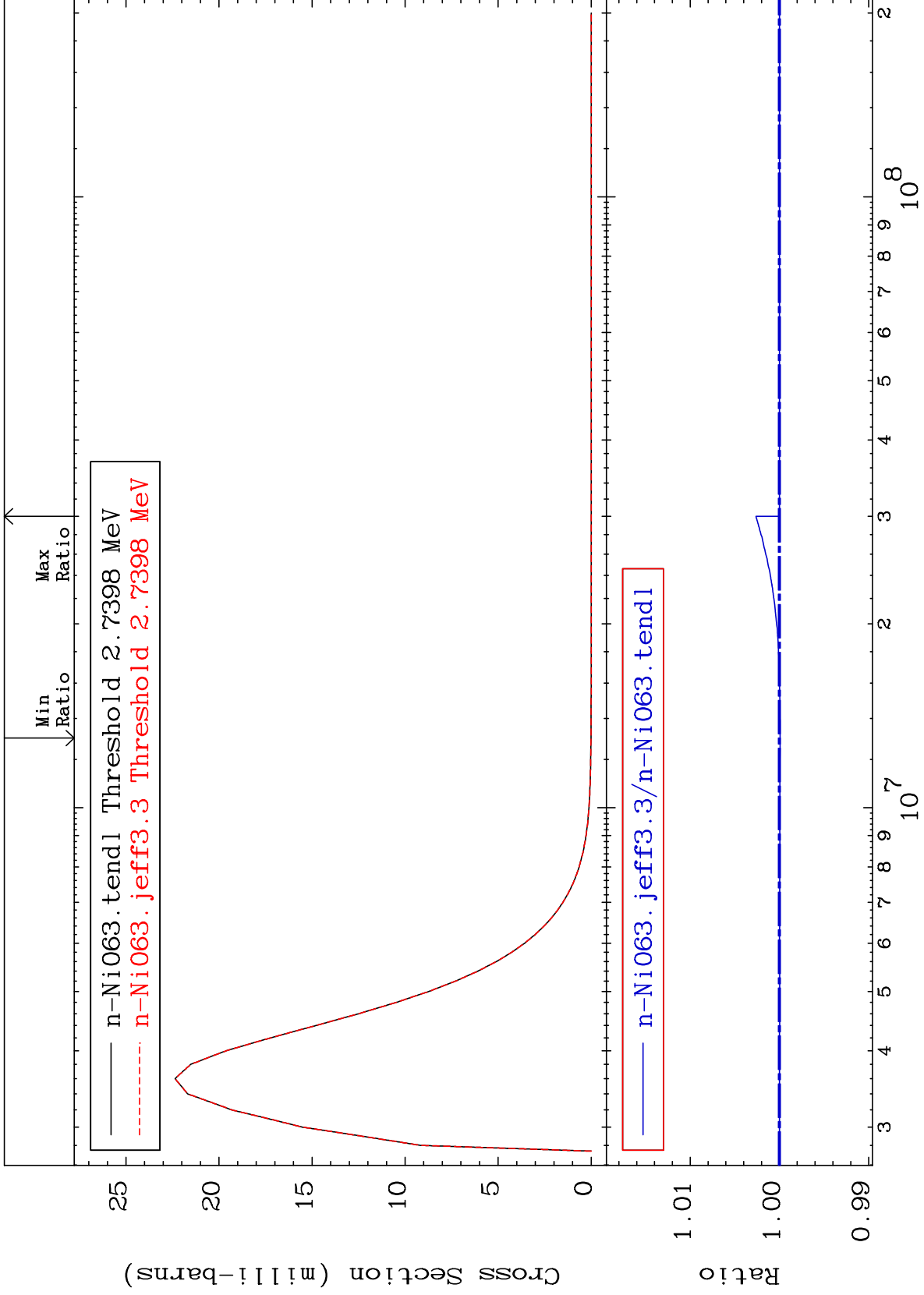
28-Ni-63  
-0.006 To 0.266 %



MAT 2840

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

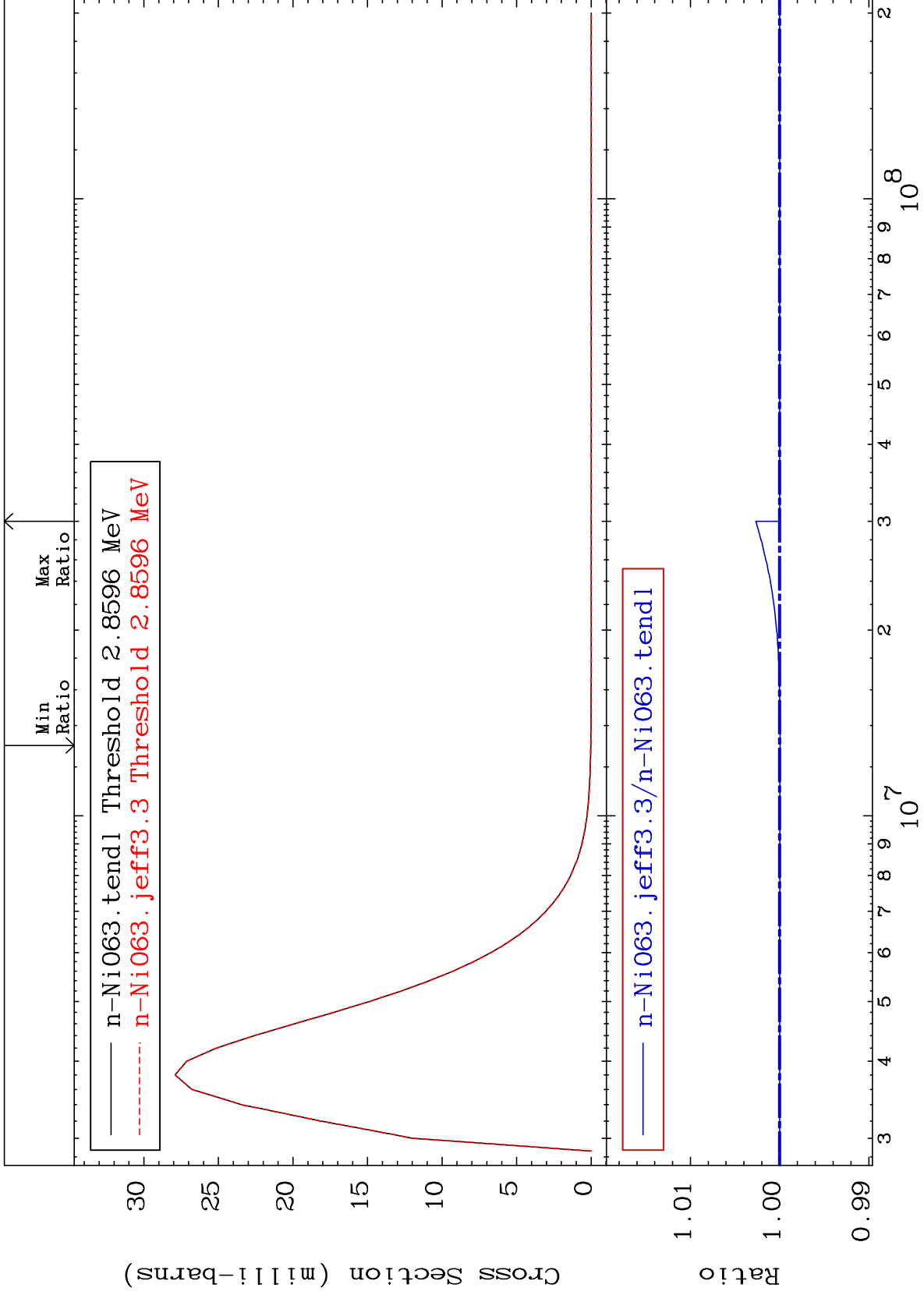
28-Ni-63  
-0.007 To 0.264 %



MAT 2840

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

28-Ni-63  
-0.005 To 0.267 %



35

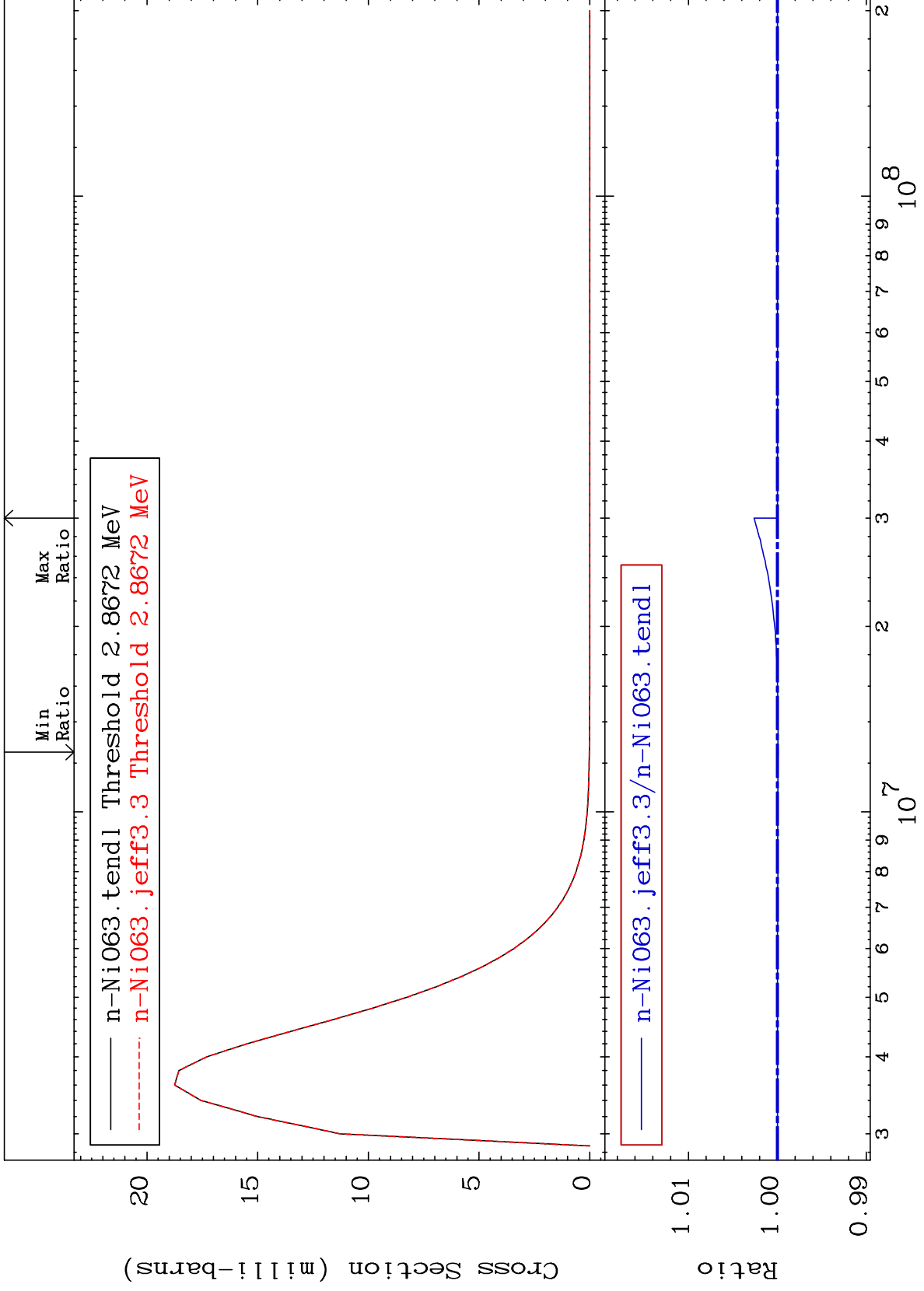
Incident Energy (eV)

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.007 To 0.263 %



36

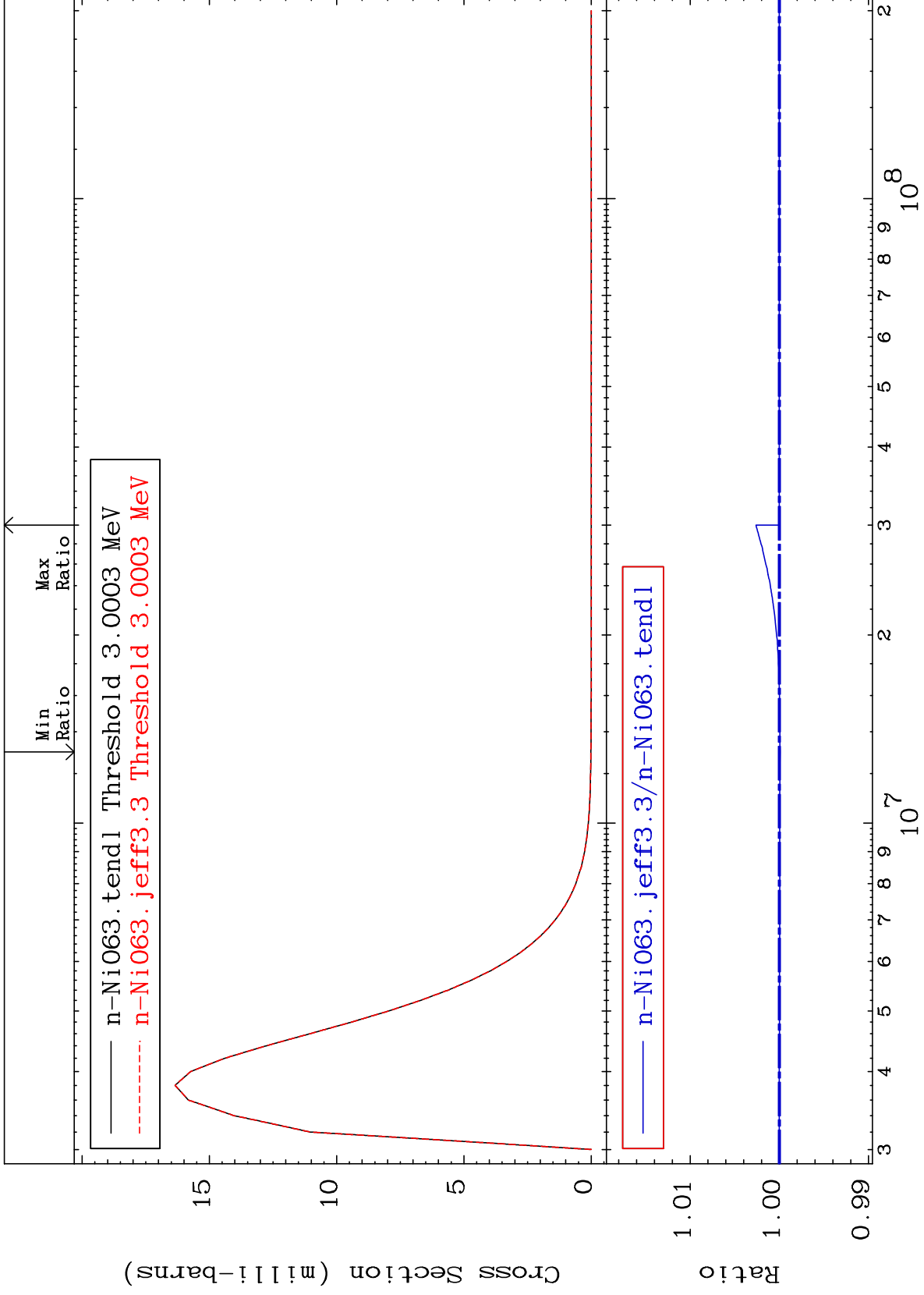
Incident Energy (eV)

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.007 To 0.263 %



37

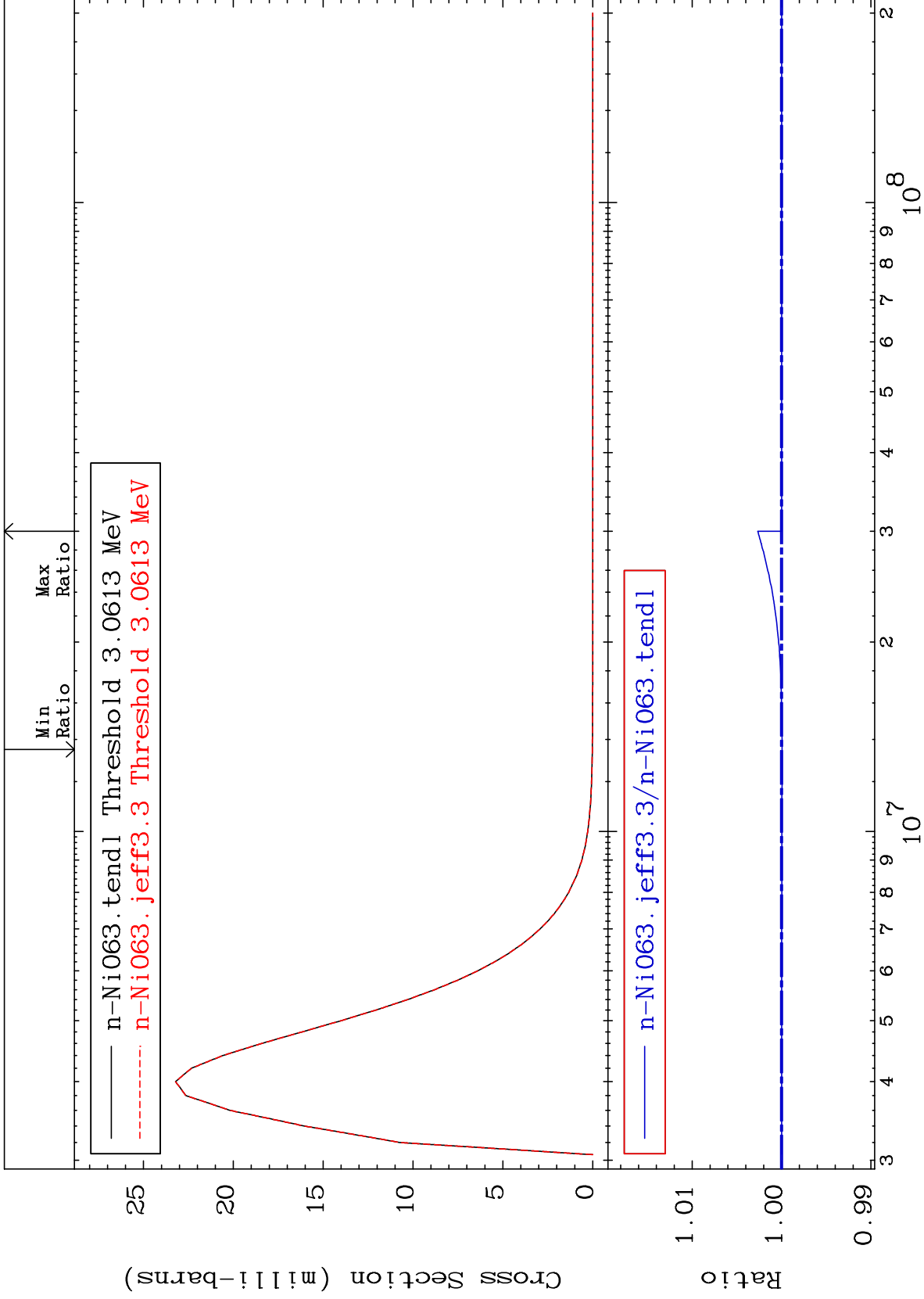
Incident Energy (eV)

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.005 To 0.267 %



38

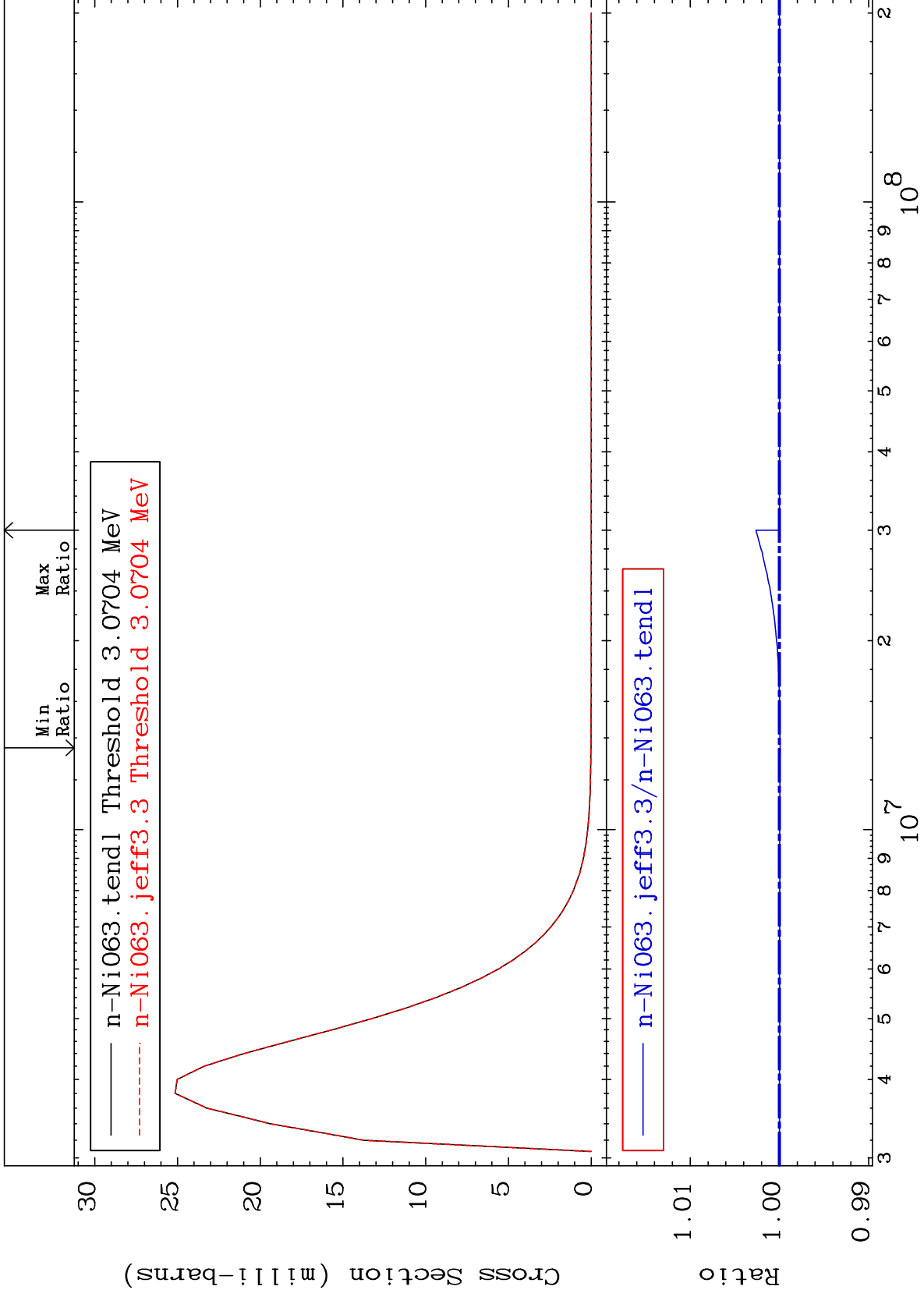
Incident Energy (eV)

28-Ni-63

MAT 2840

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

28-Ni-63  
-0.007 To 0.264 %



39

Incident Energy (eV)

28-Ni-63

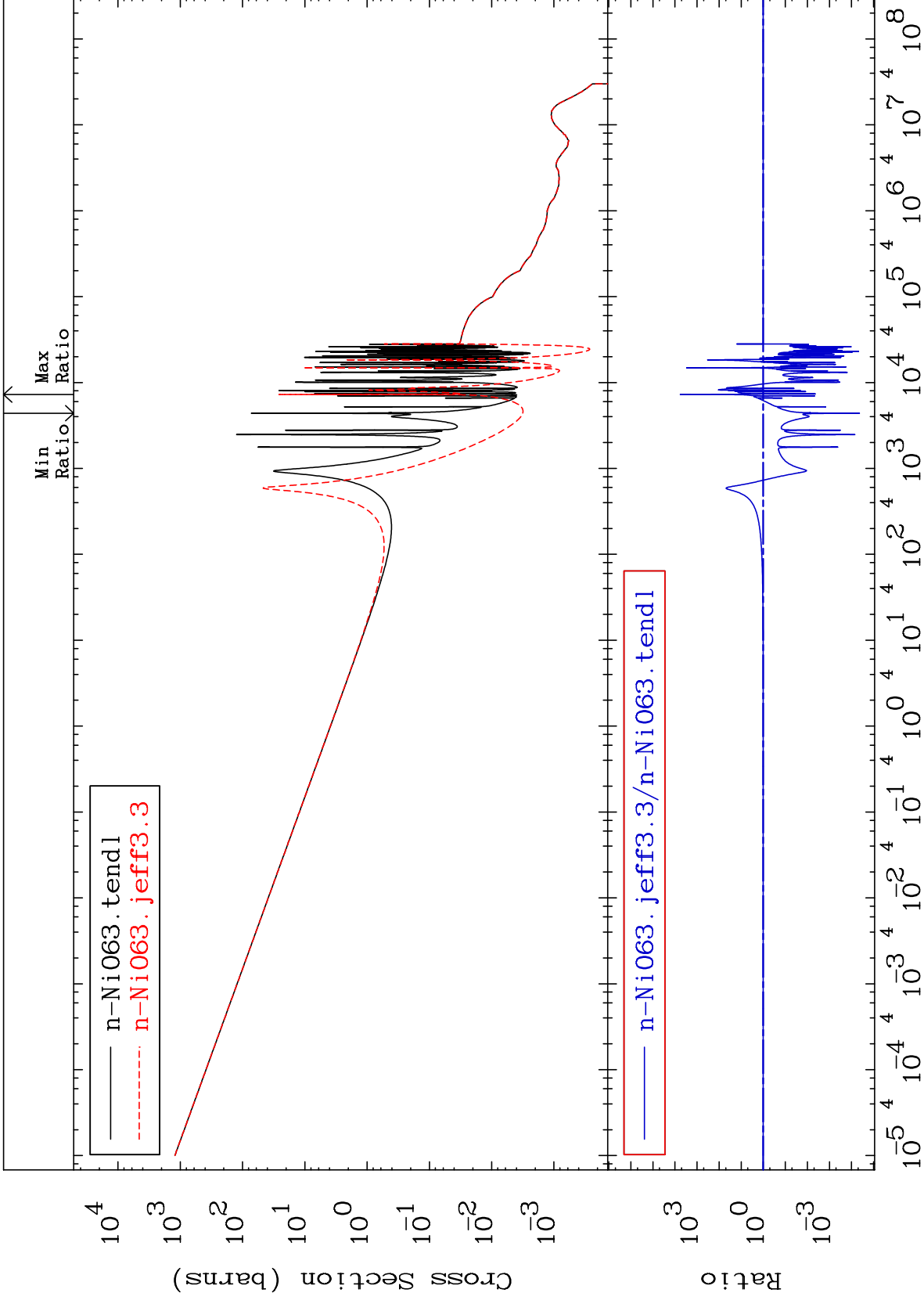
MAT 2840

(n,  $\gamma$ )

28-Ni-63

Cross Section

-100.0 To 9999. %



40

Incident Energy (eV)

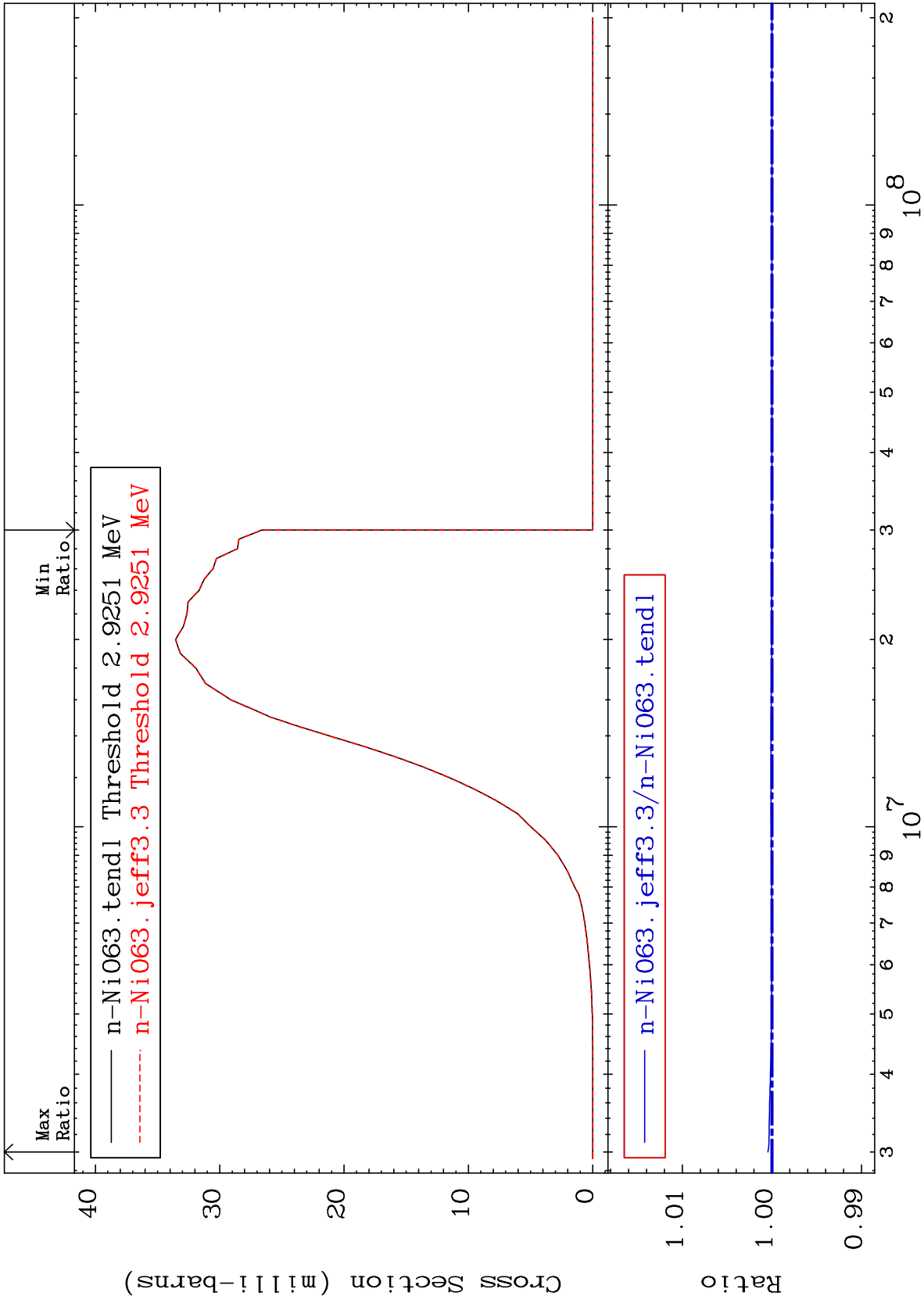
28-Ni-63



MAT 2840

28-Ni-63

(n,p)  
Cross Section  
0.000 To 0.045 %



41

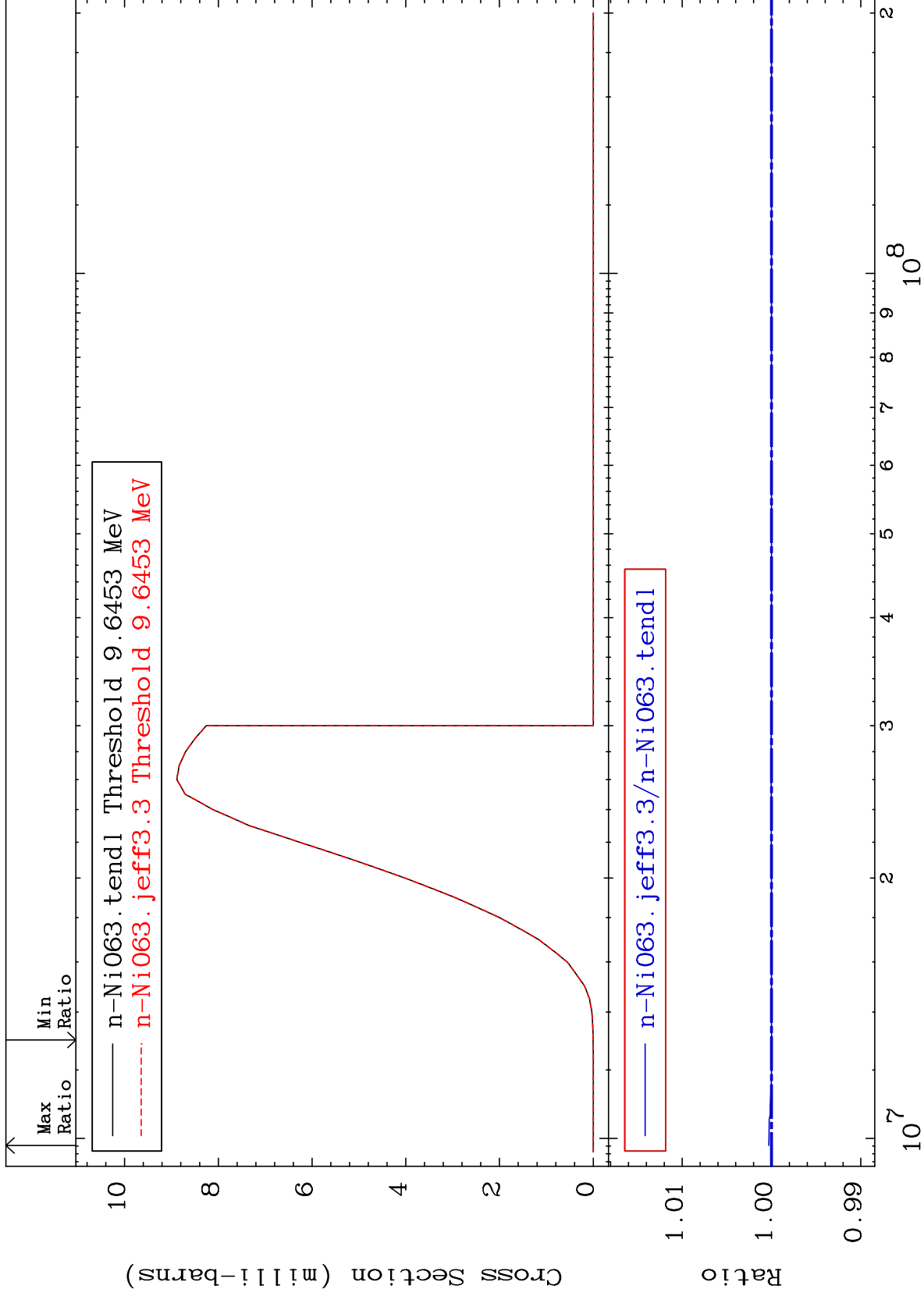
Incident Energy (eV)

28-Ni-63

MAT 2840

(n, t)  
Cross Section

28-Ni-63  
-0.001 To 0.031 %



42

Incident Energy (eV)

28-Ni-63

MAT 2840

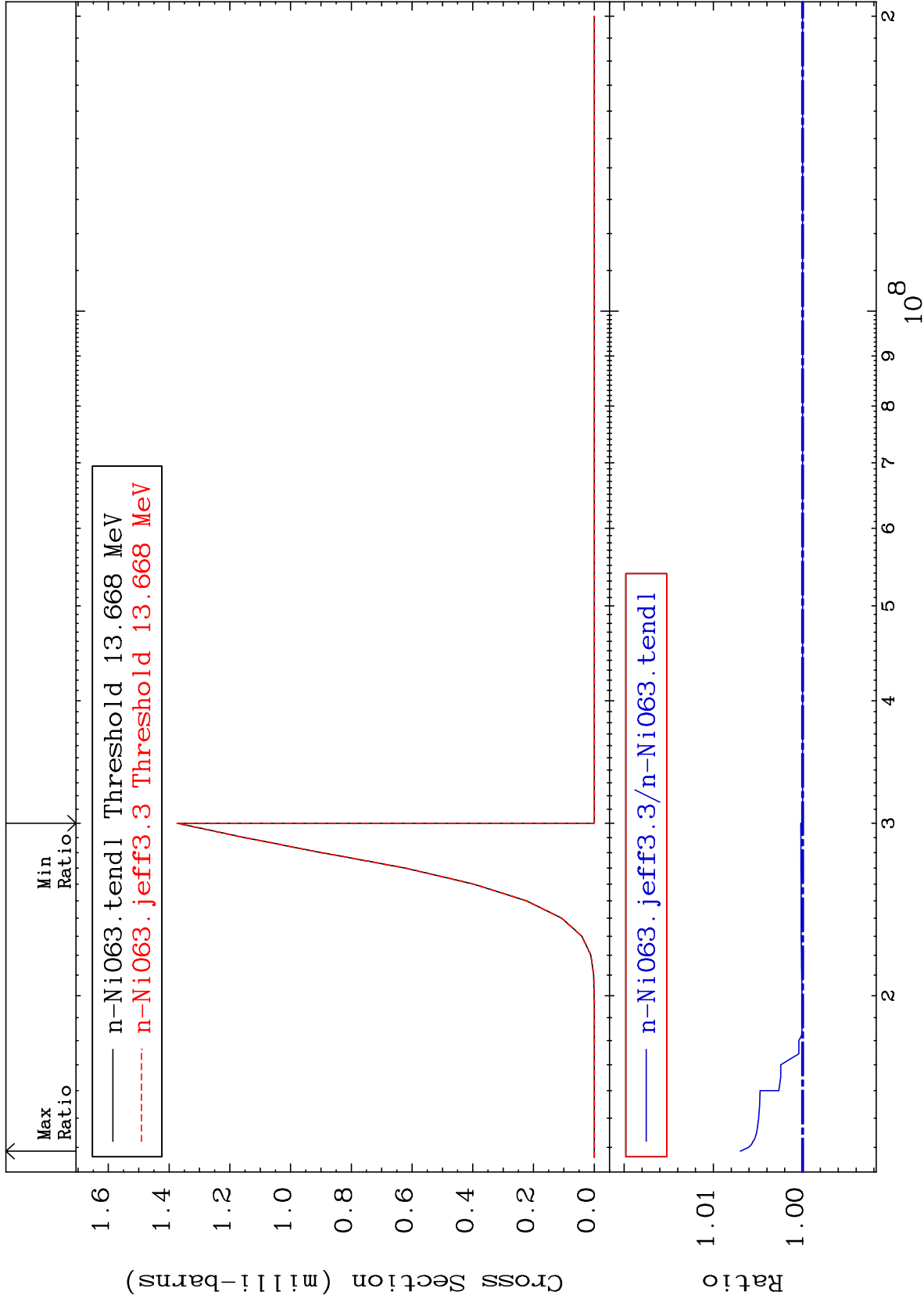
(n, He-3)

28-Ni-63

Cross Section

0.000

To 0.698 %



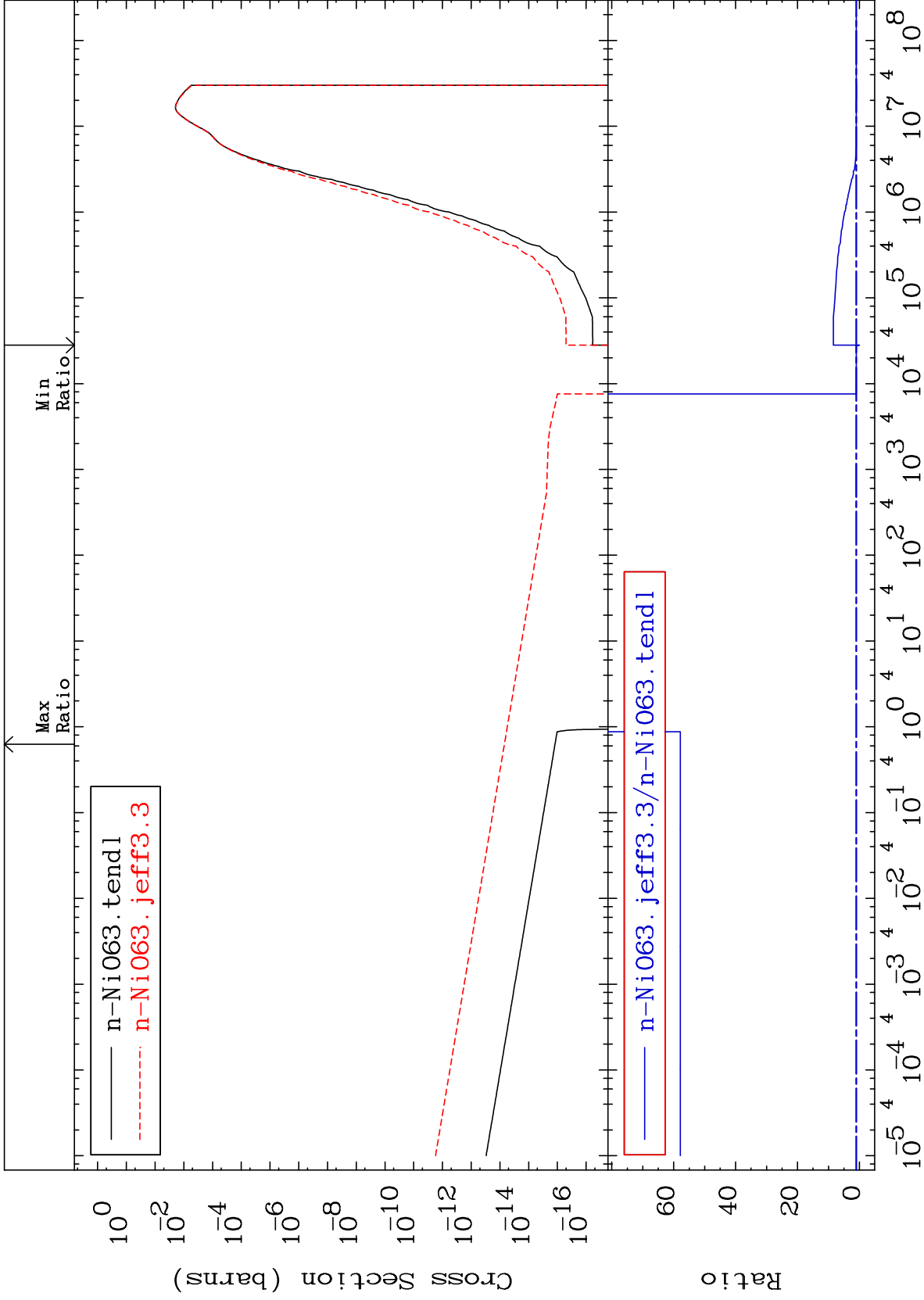
MAT 2840

(n,  $\alpha$ )

28-Ni-63

Cross Section

-100.0 To 5685. %



— n-Ni063.tendl  
- - - n-Ni063.jeff3.3

— n-Ni063.jeff3.3/n-Ni063.tendl

Incident Energy (eV)

28-Ni-63

44

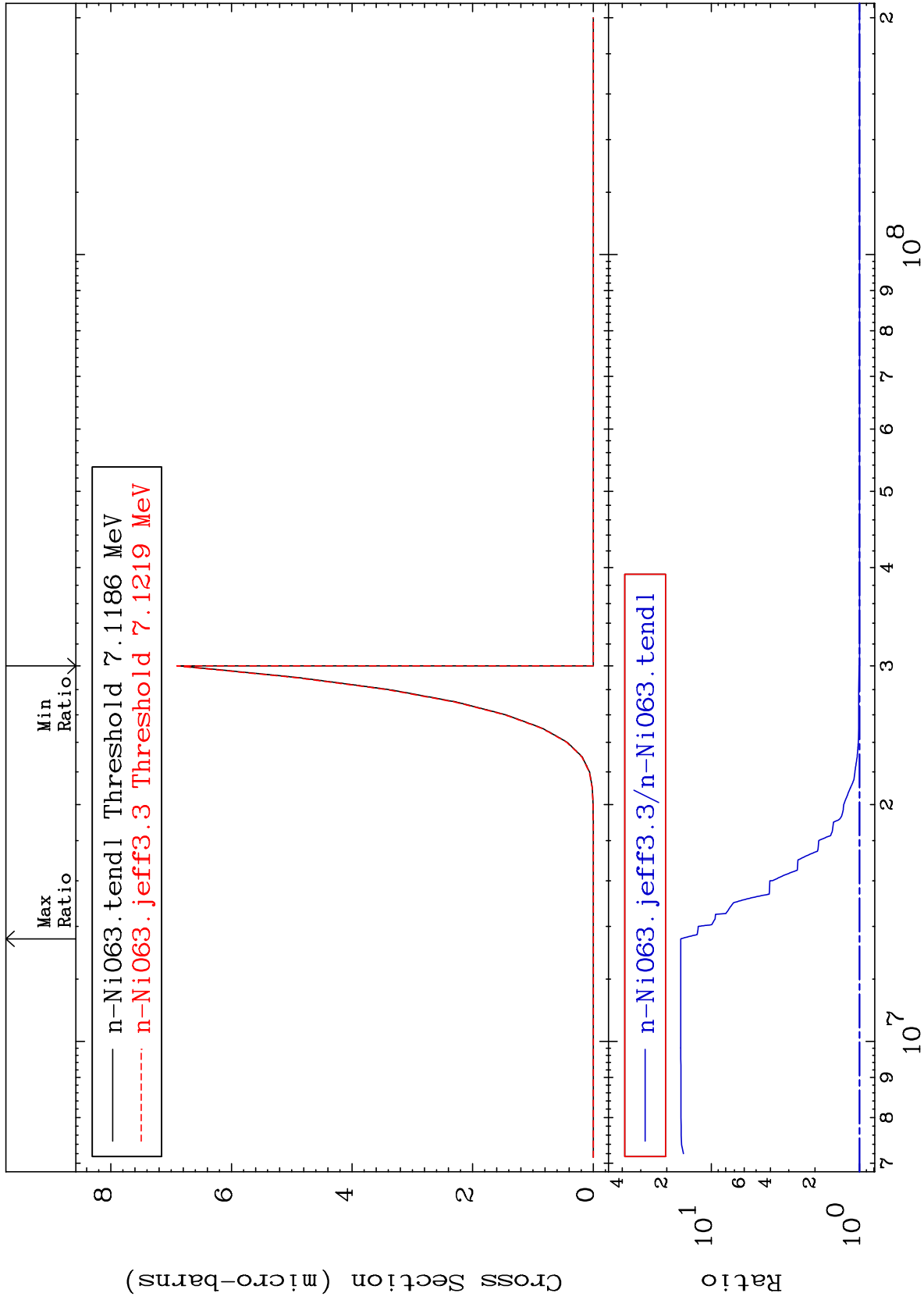
MAT 2840

(n,2α)

28-Ni-63

Cross Section

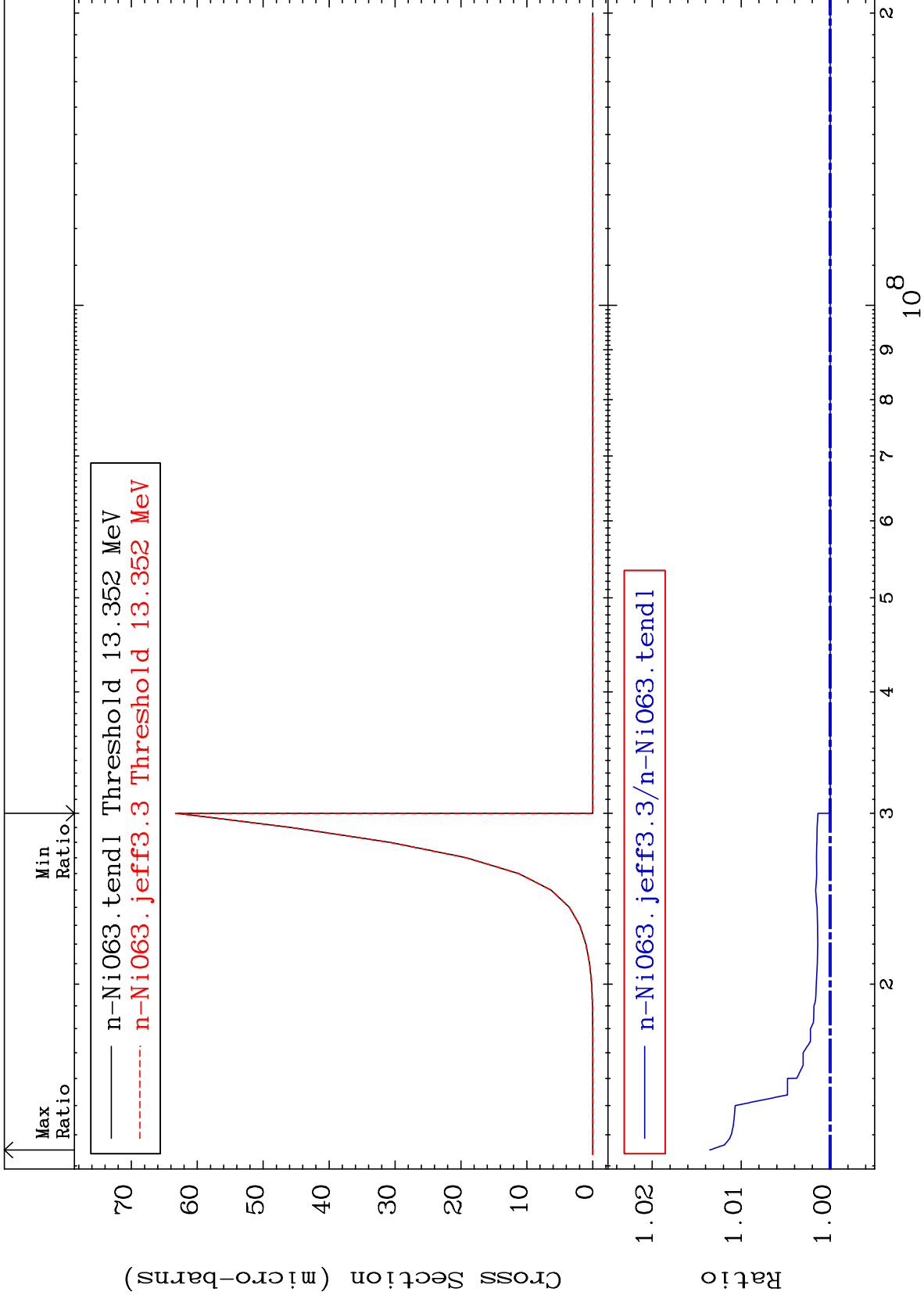
0.000 To 1509. %



Cross Section

0.000

To 1.355 %



MAT 2840

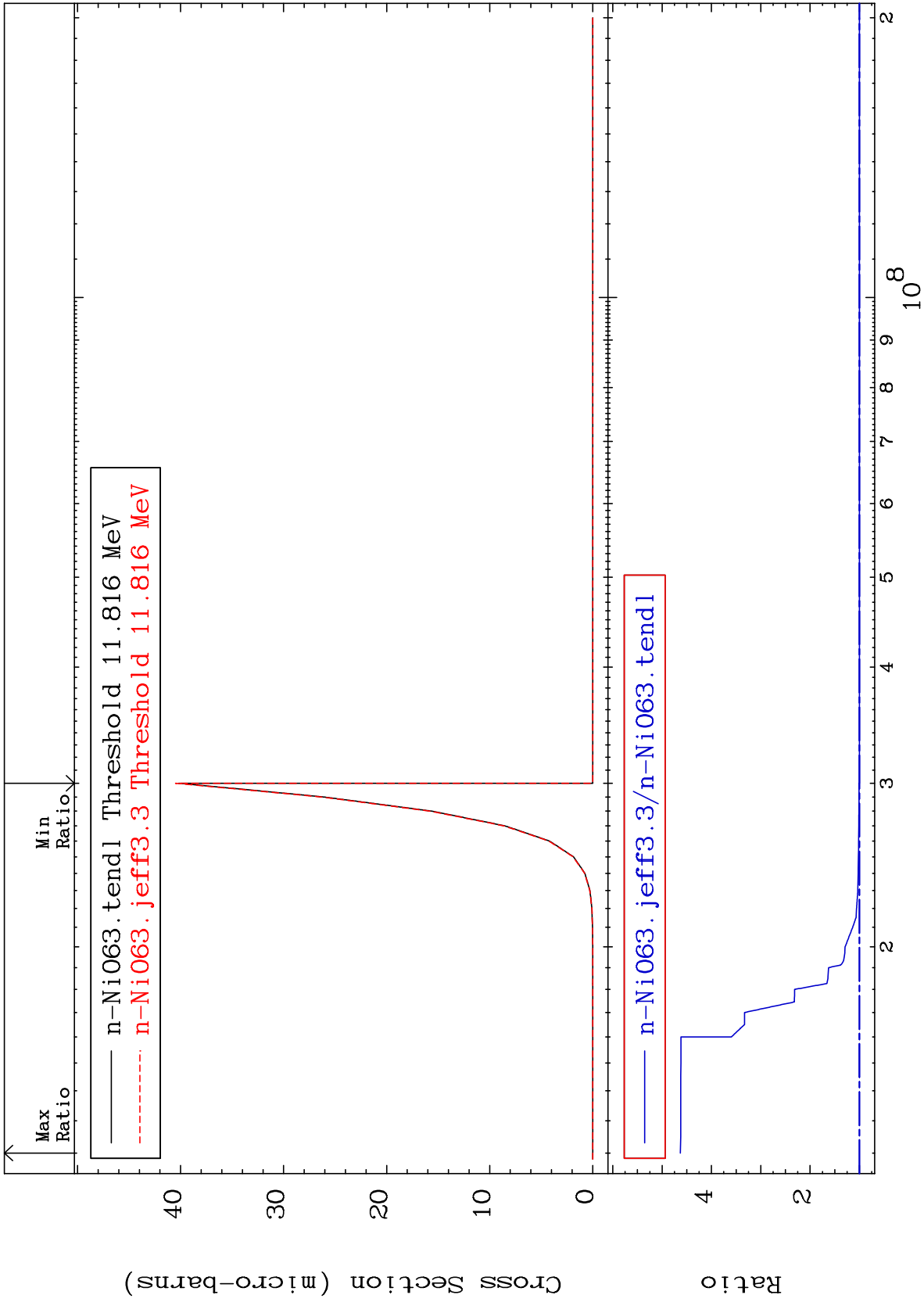
(n,p)  $\alpha$

28-Ni-63

Cross Section

0.000

To 363.0 %



47

28-Ni-63

28-Ni-63

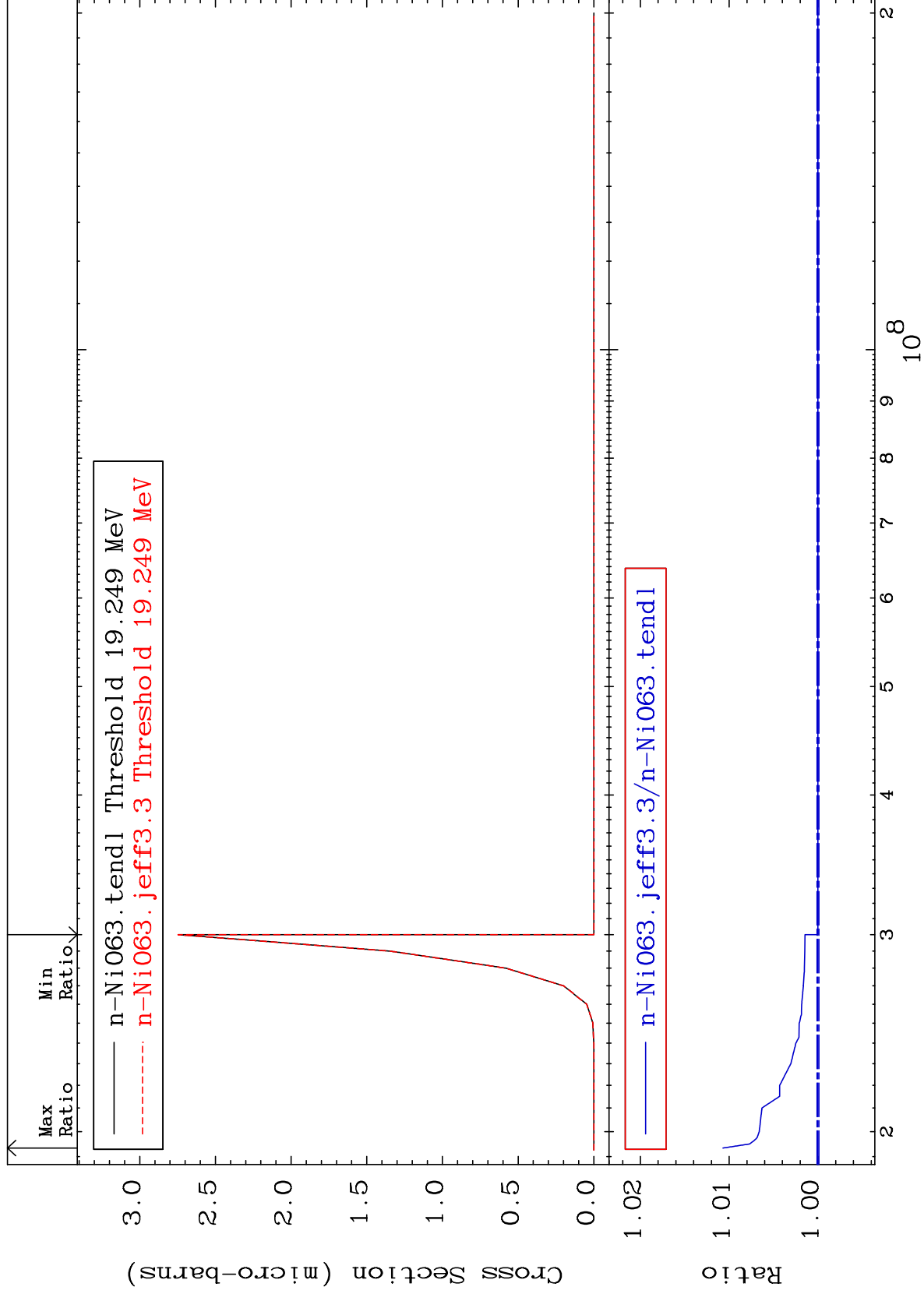
MAT 2840

(n,p) d

<sup>28</sup>Ni-63

Cross Section

0.000 To 1.071 %



48

Incident Energy (eV)

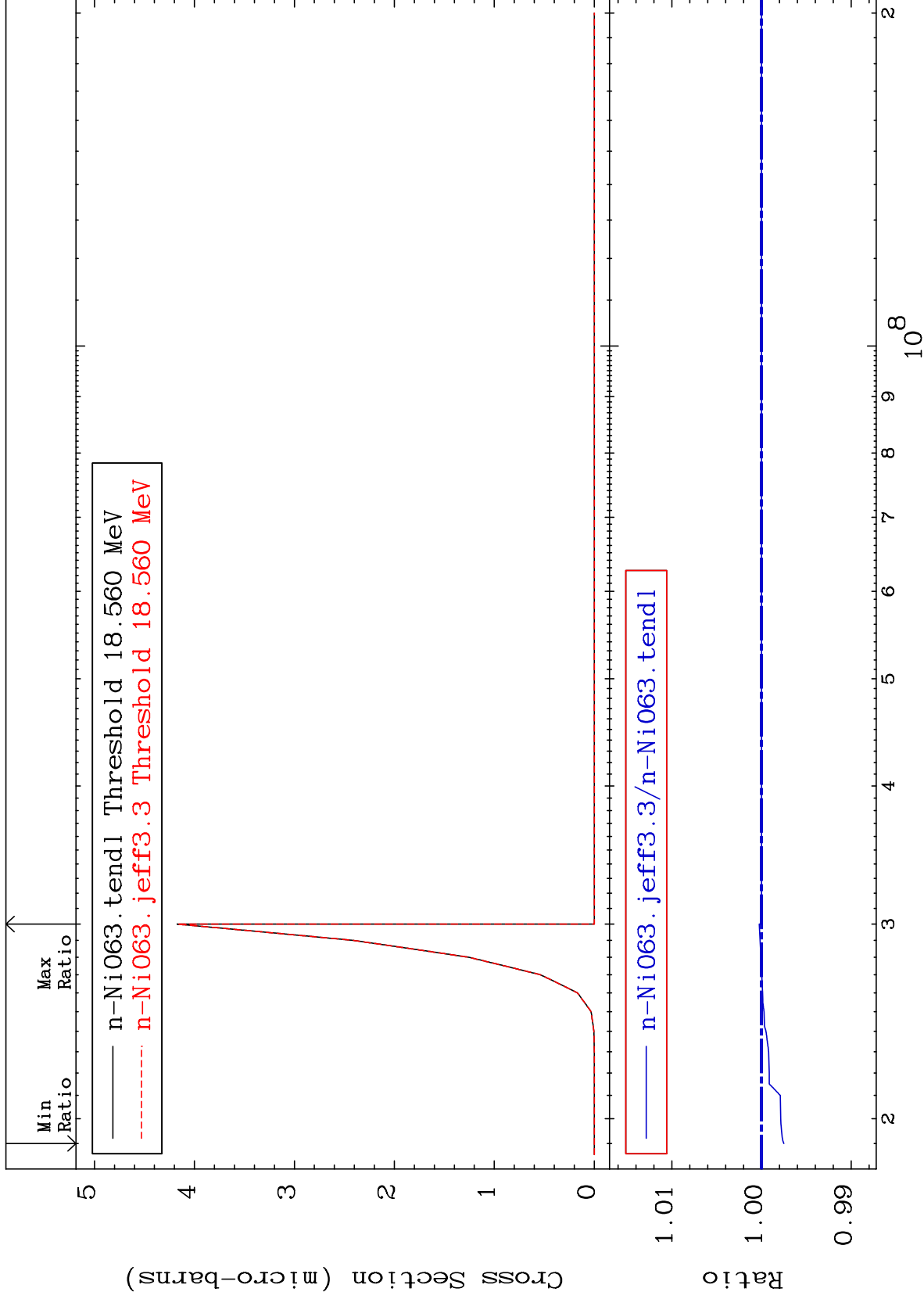
<sup>28</sup>Ni-63



MAT 2840

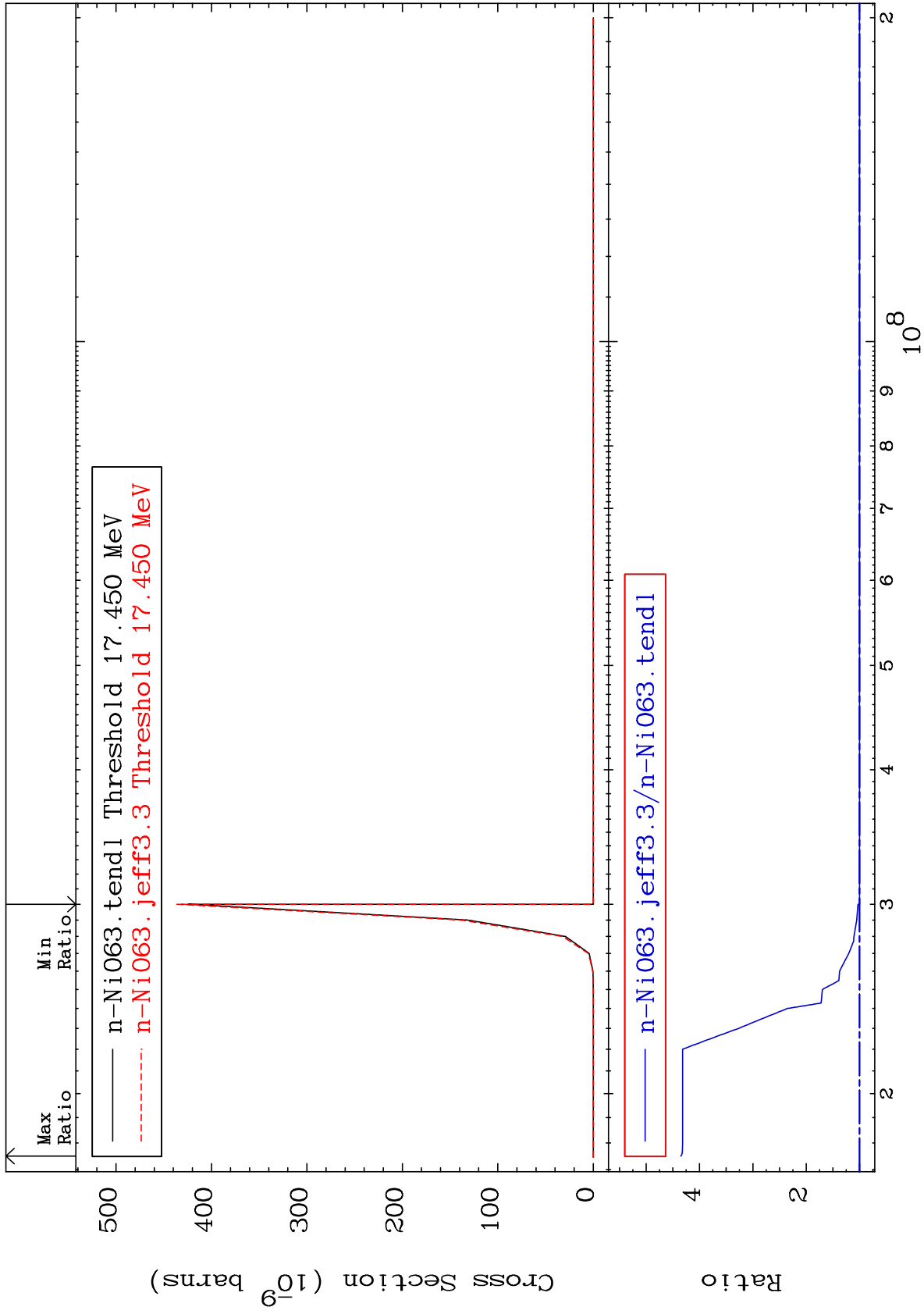
(n, p) t  
Cross Section

28-Ni-63  
-0.248 To 0.026 %



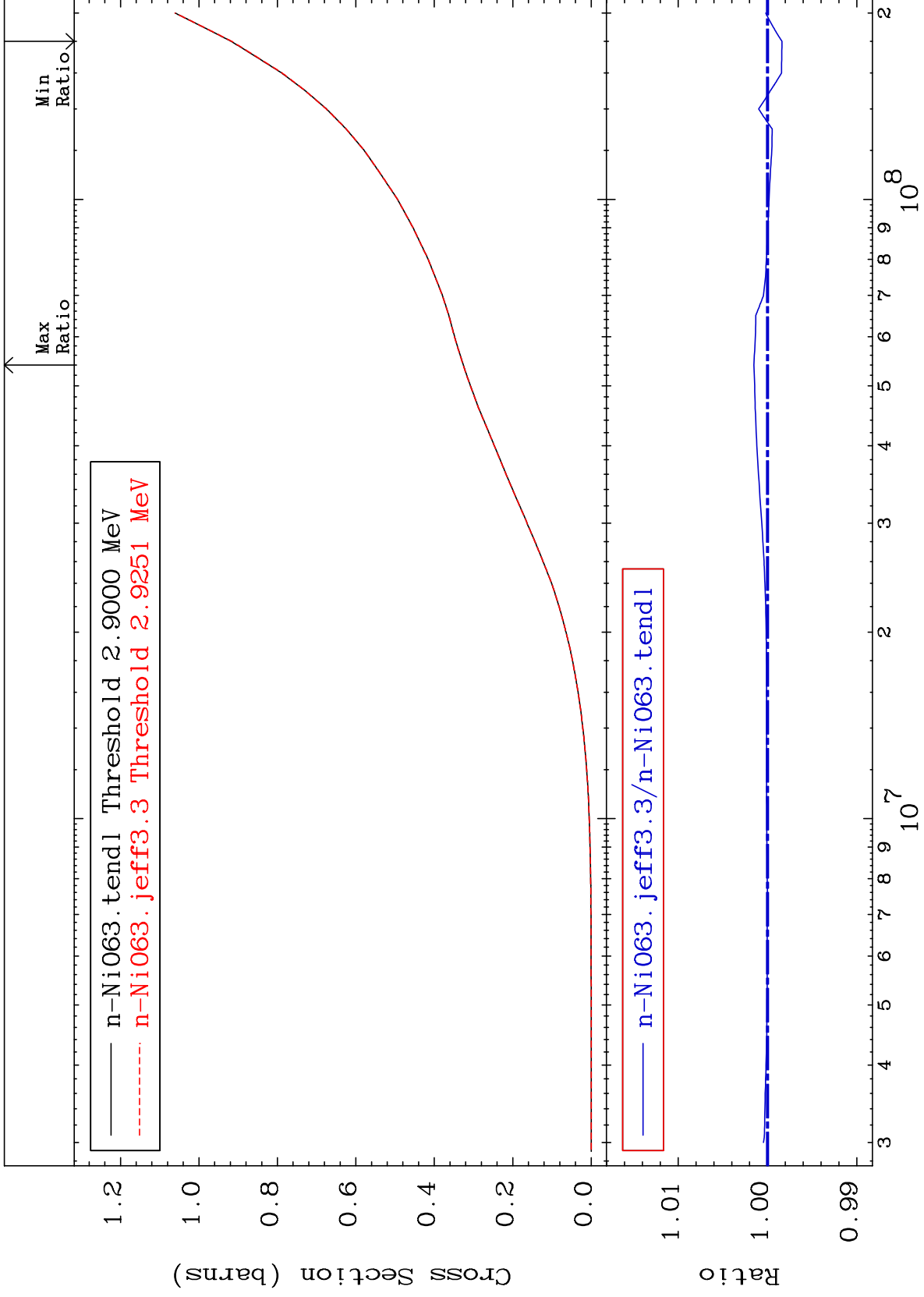
MAT 2840

(n,d)  $\alpha$  Cross Section  
28-Ni-63 To 335.1 %  
0.000



50

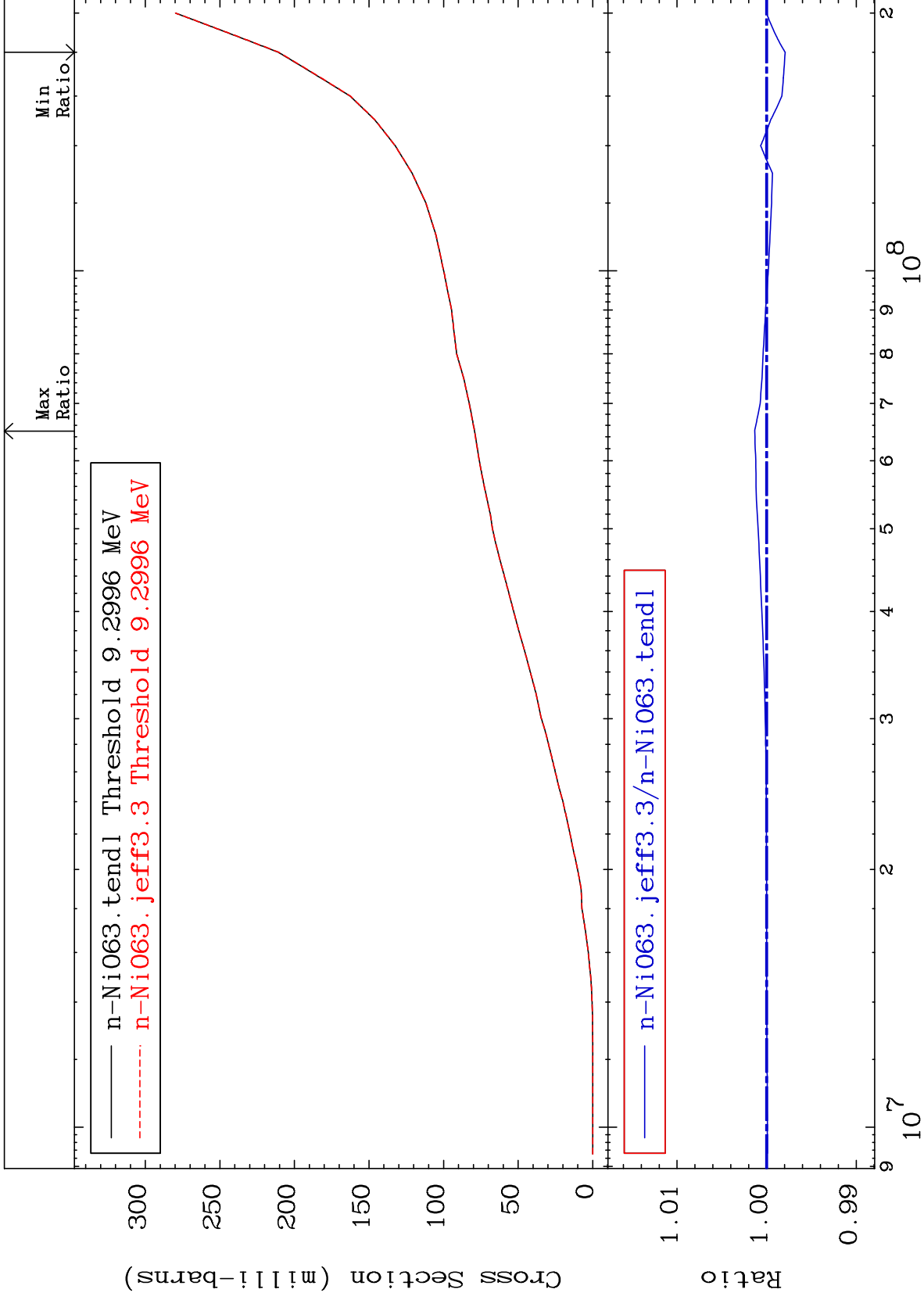
28-Ni-63



MAT 2840

Deuterium Production  
Cross Section

28-Ni-63  
-0.206 To 0.134 %



52

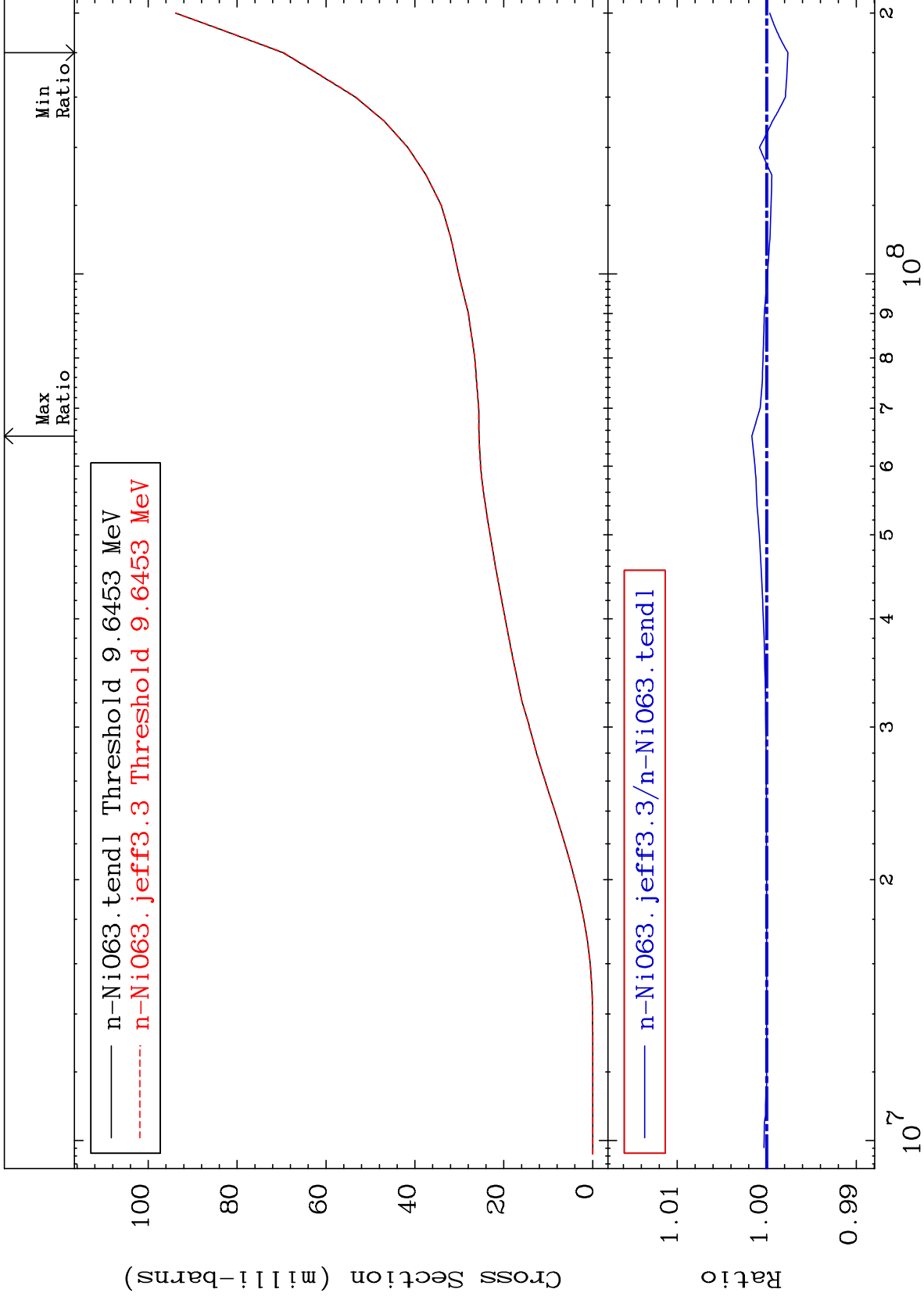
Incident Energy (eV)

28-Ni-63

MAT 2840

Tritium Production  
Cross Section

28-Ni-63  
-0.237 To 0.166 %



53

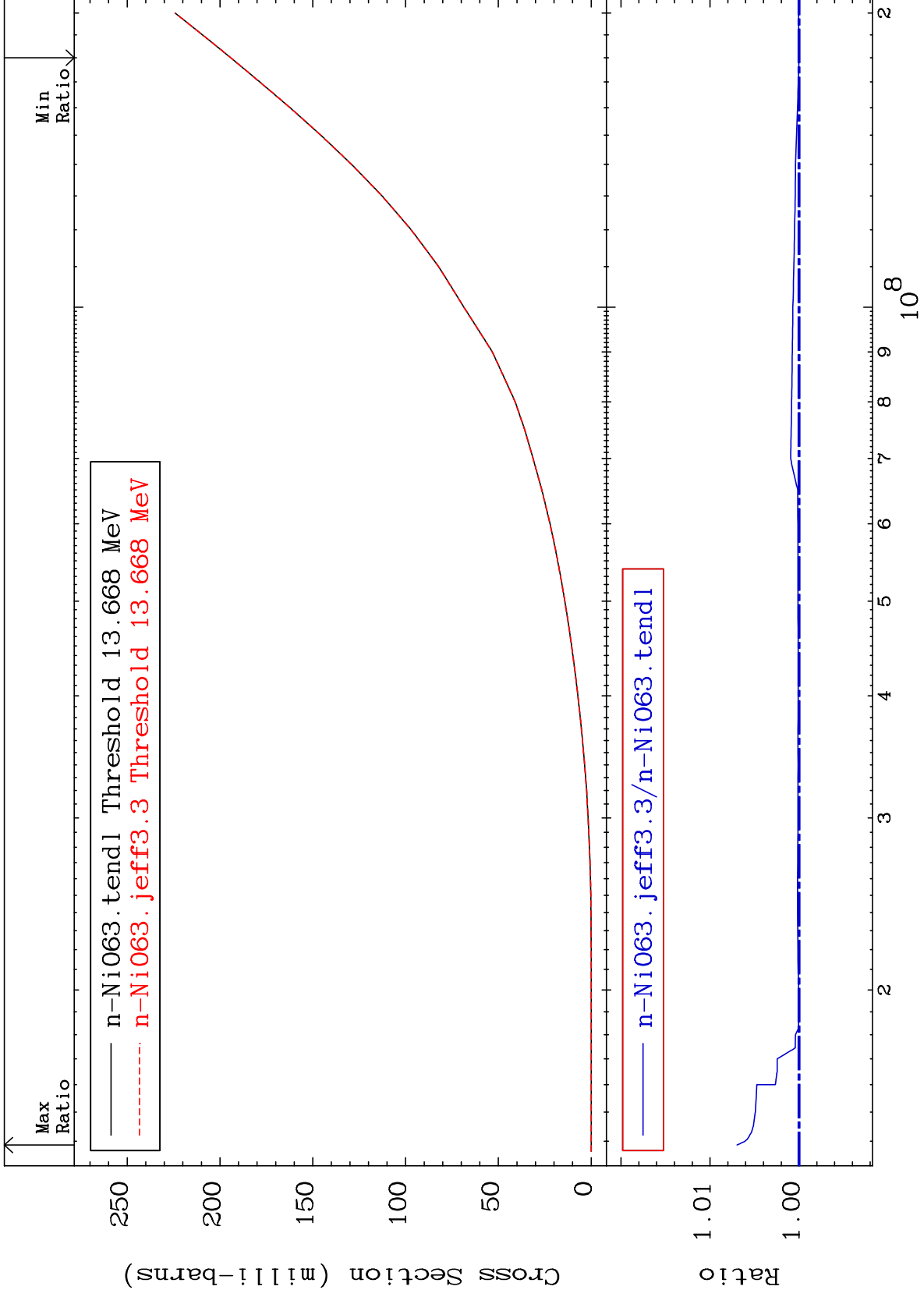
Incident Energy (eV)

28-Ni-63

MAT 2840

He-3 Production  
Cross Section

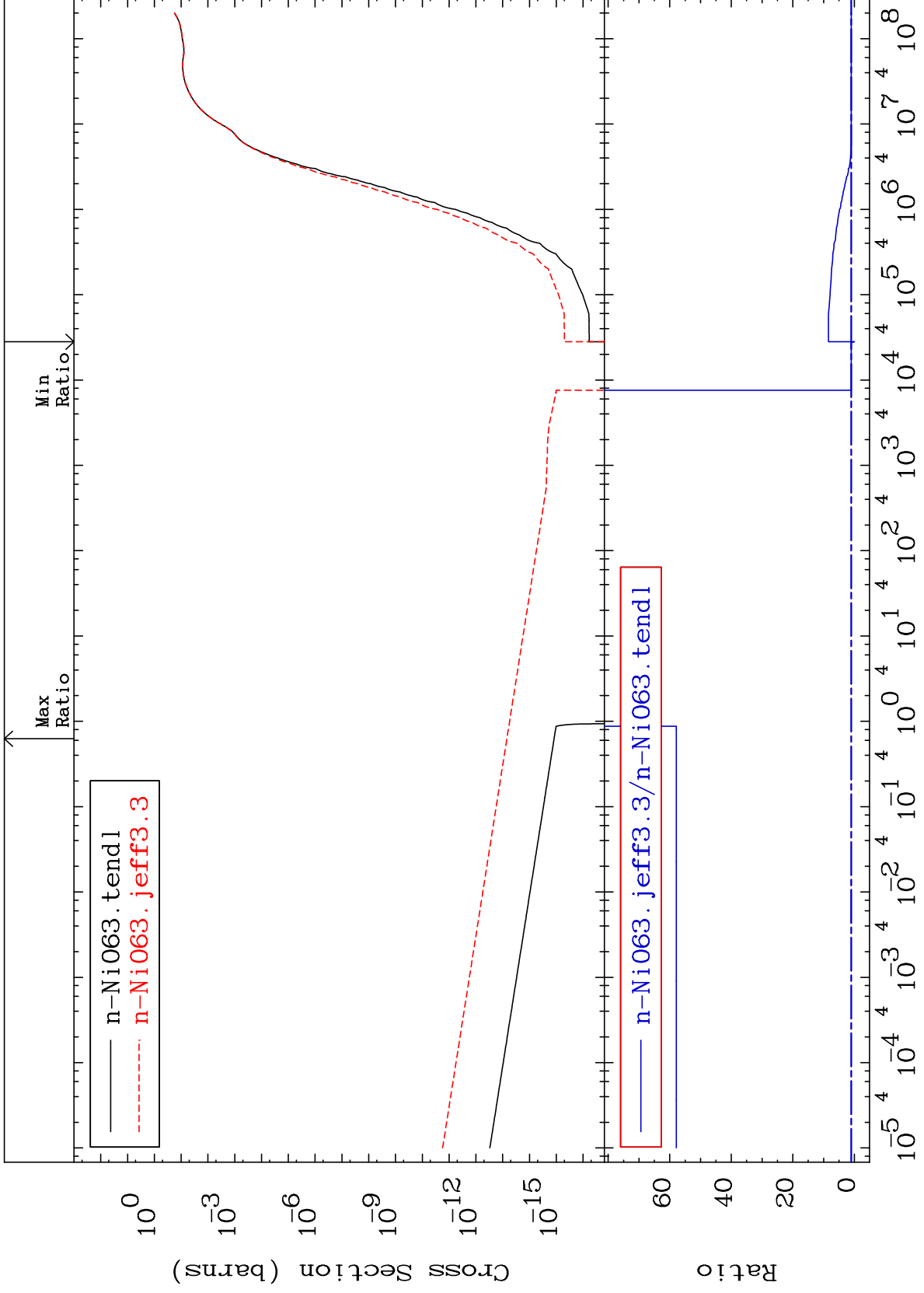
28-Ni-63  
To 0.698 %



MAT 2840

He-4 Production  
Cross Section

28-Ni-63  
-100.0 To 5685. %



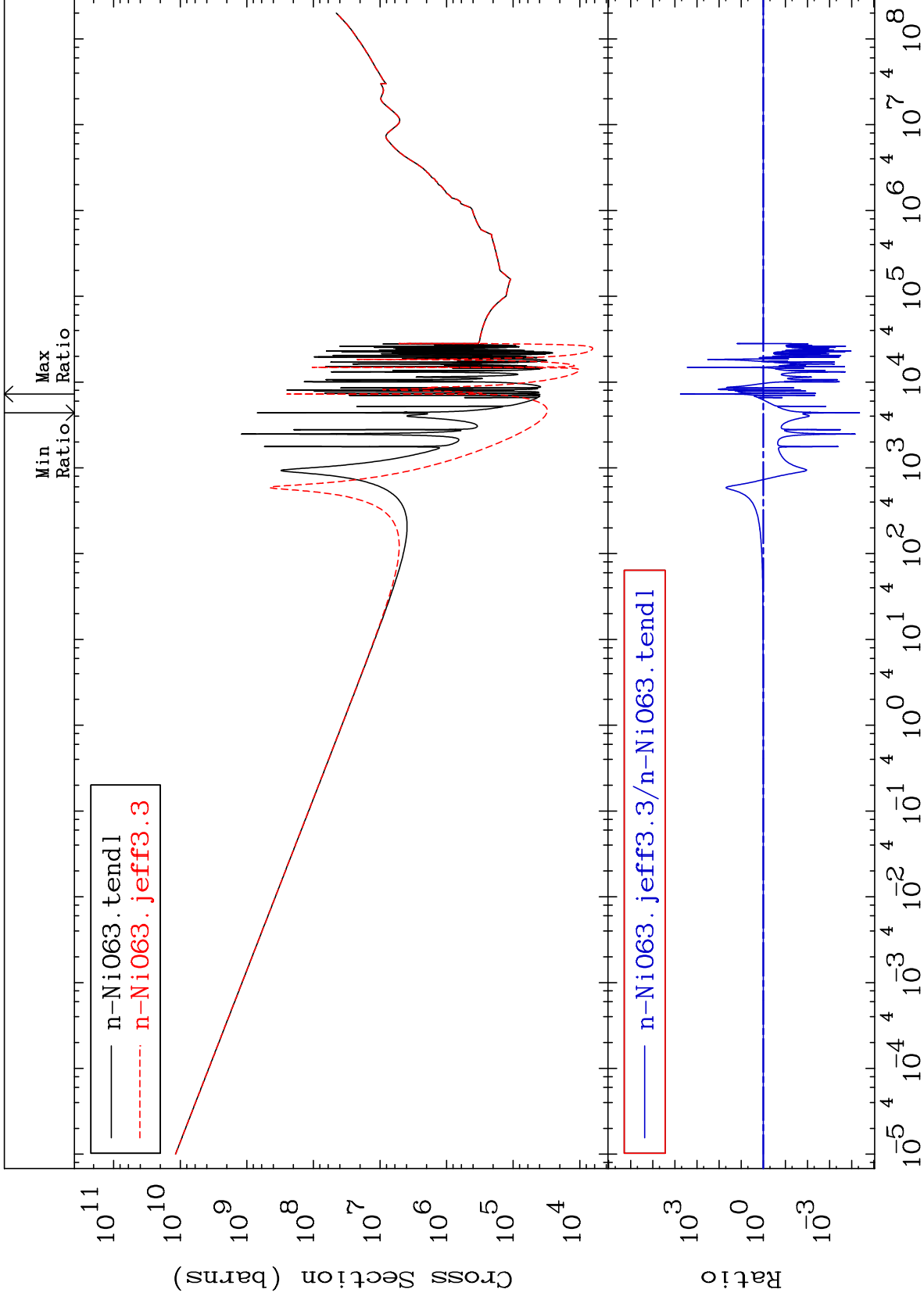
55

Incident Energy (eV)

28-Ni-63

Cross Section

-100.0 To 9999. %

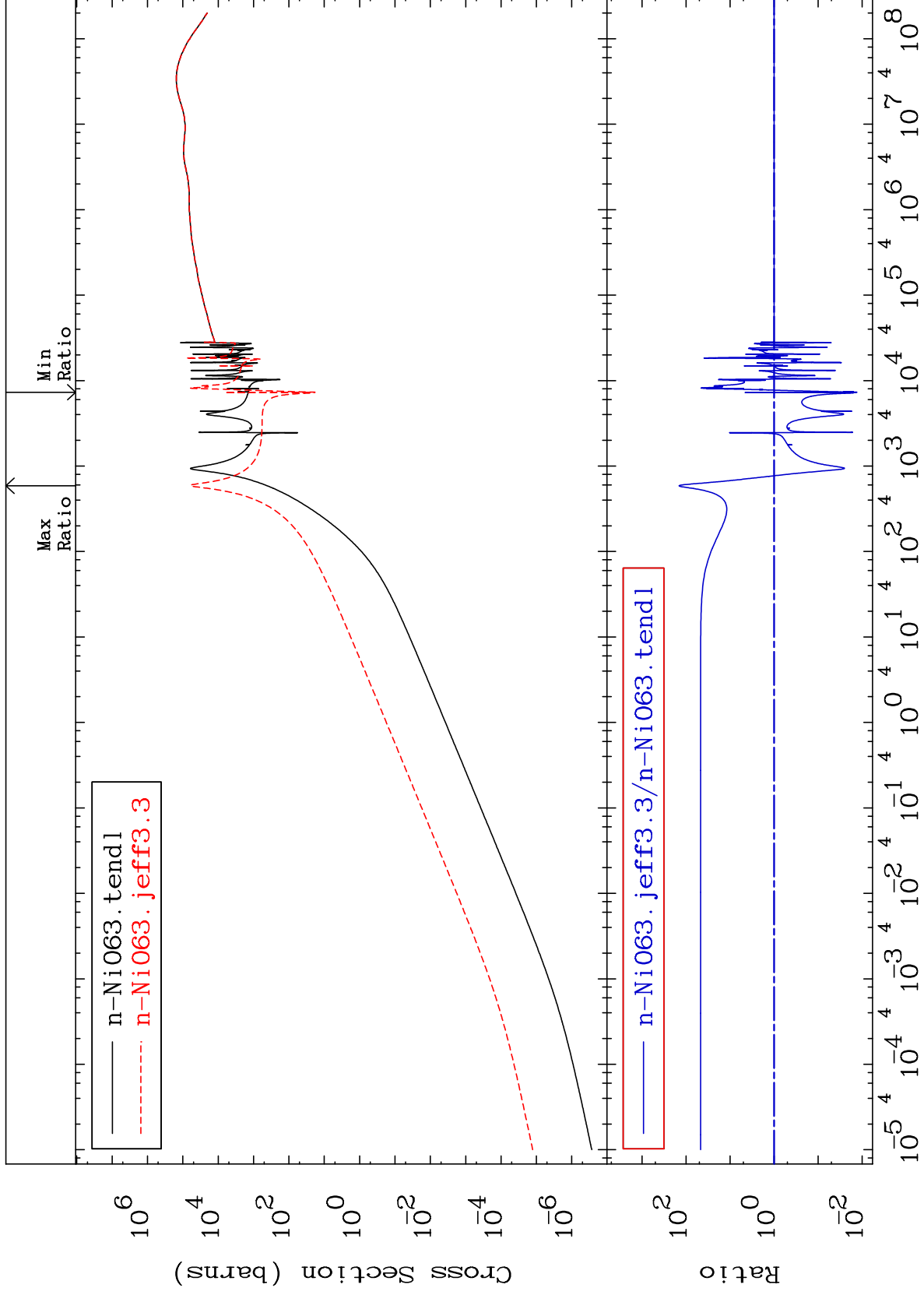




MAT 2840

Kerma elastic  
Cross Section

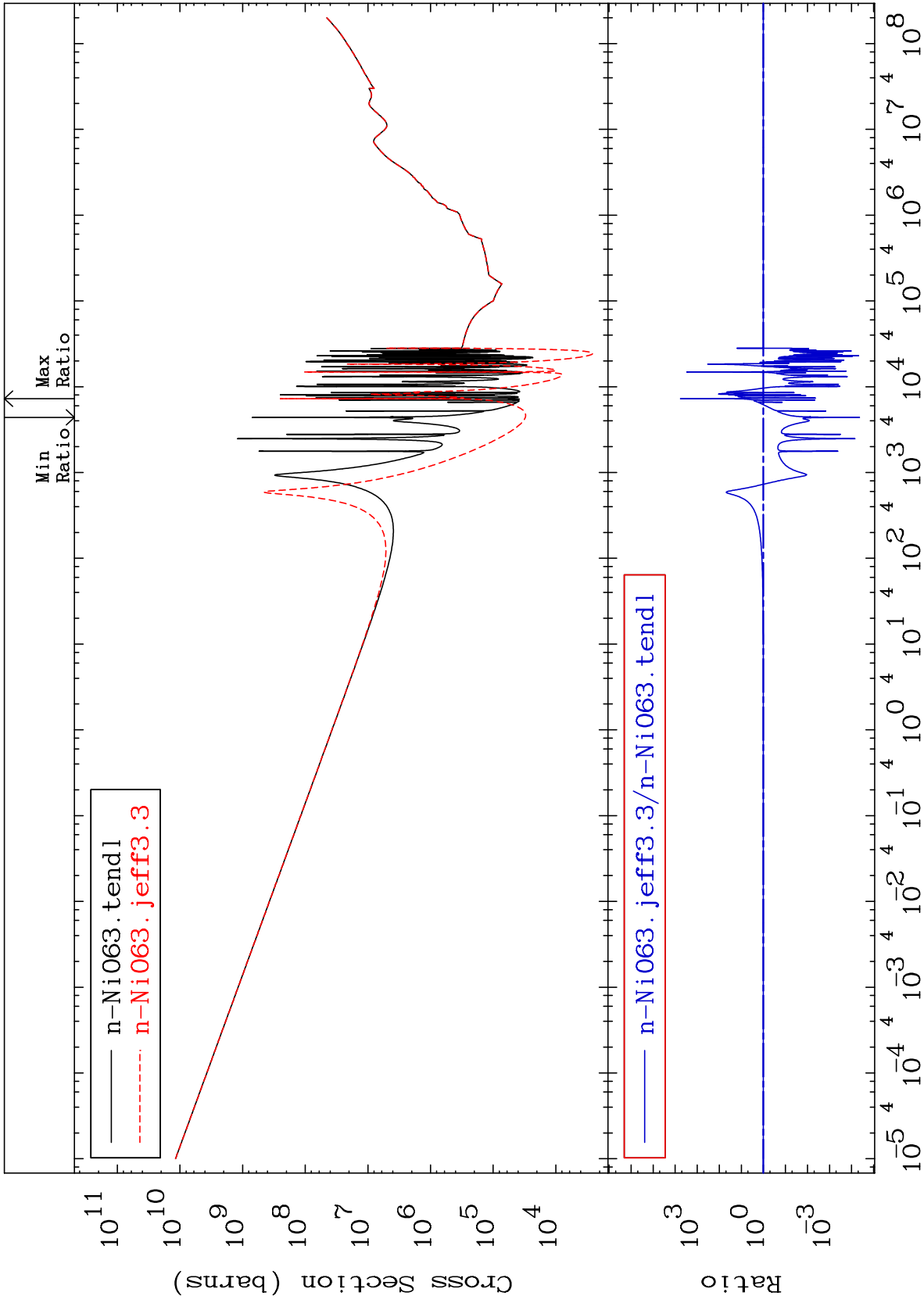
28-Ni-63  
-98.71 To 9999. %

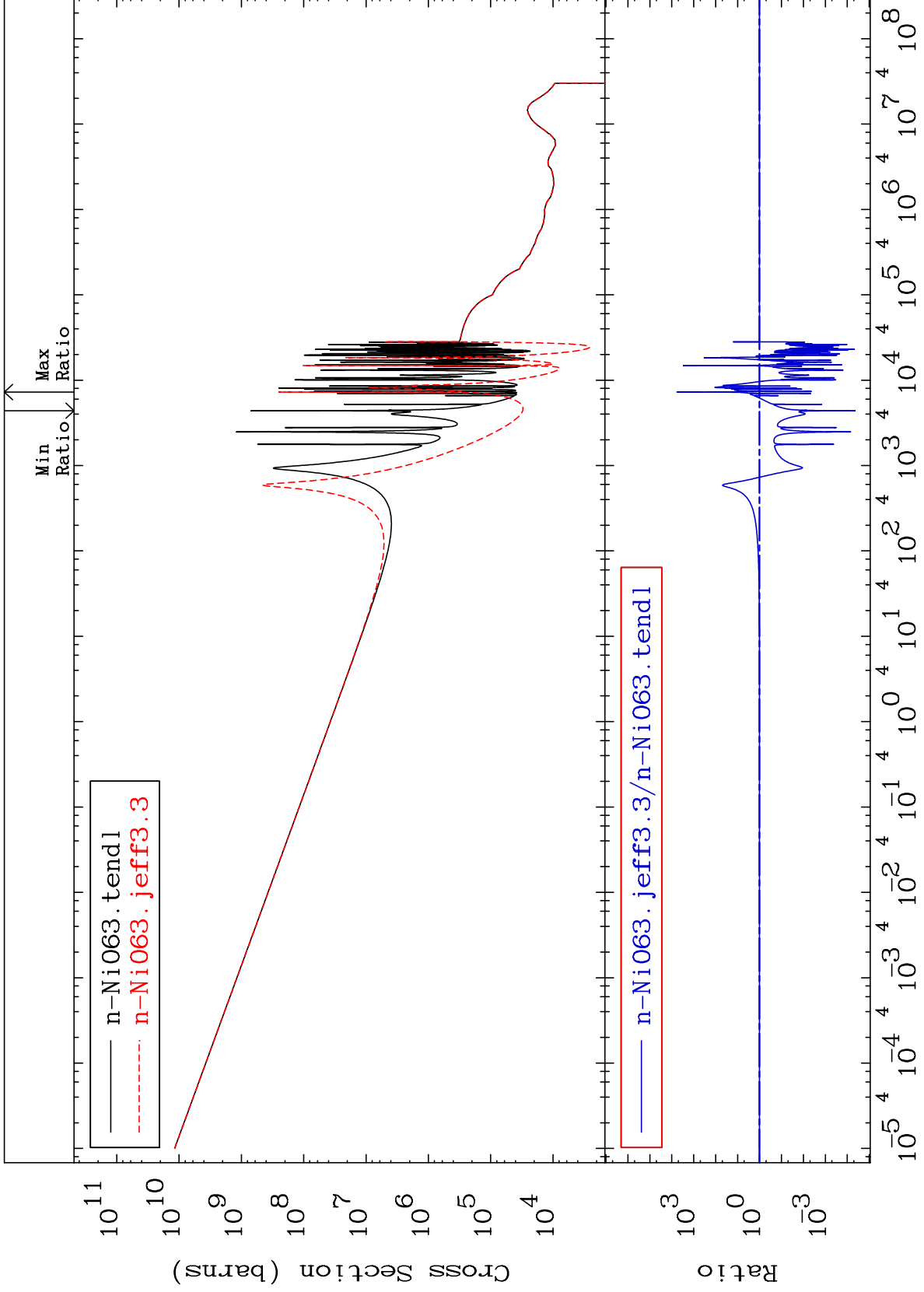


57

Incident Energy (eV)

28-Ni-63

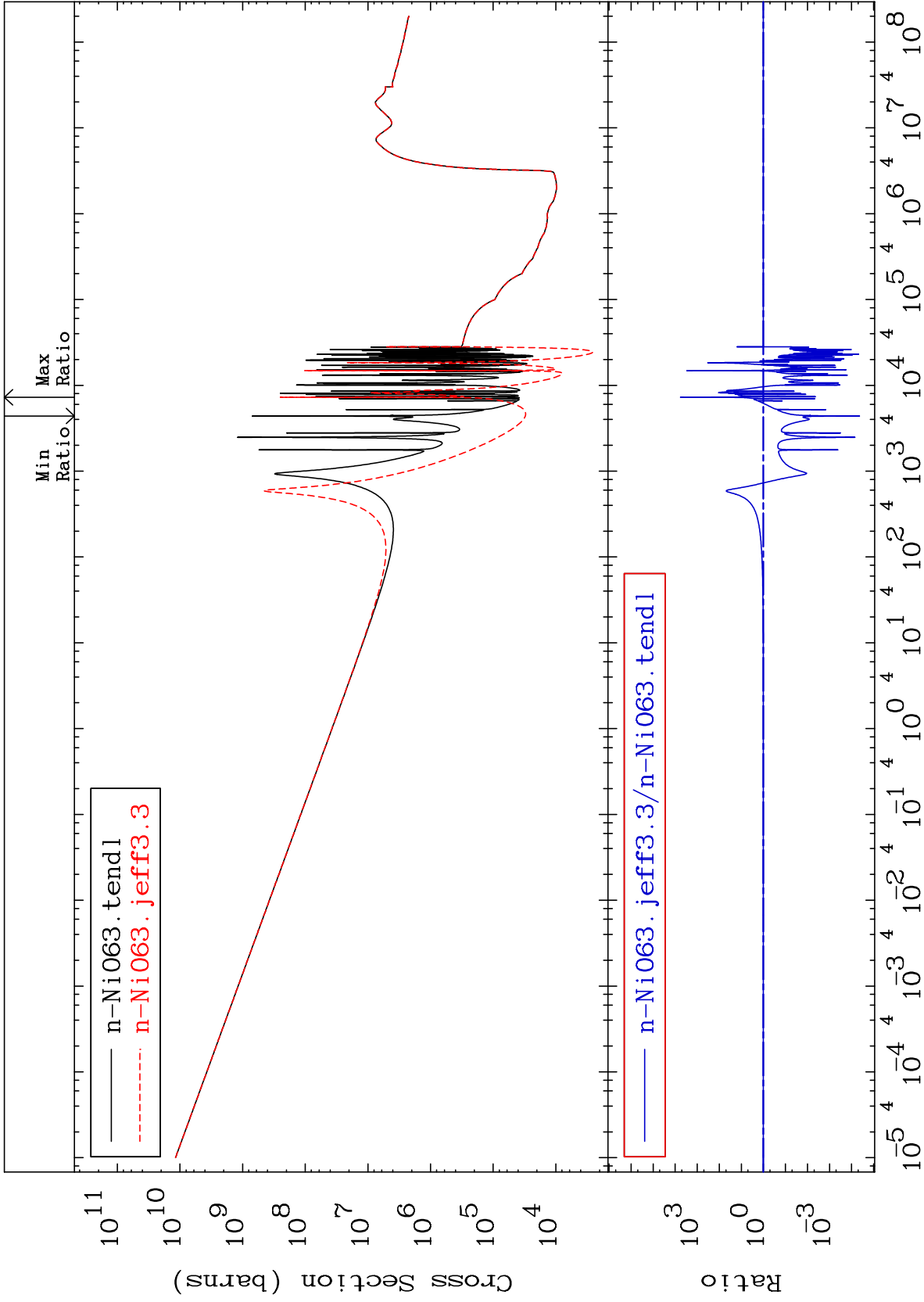




MAT 2840

Total photon (eV-barns)  
Cross Section

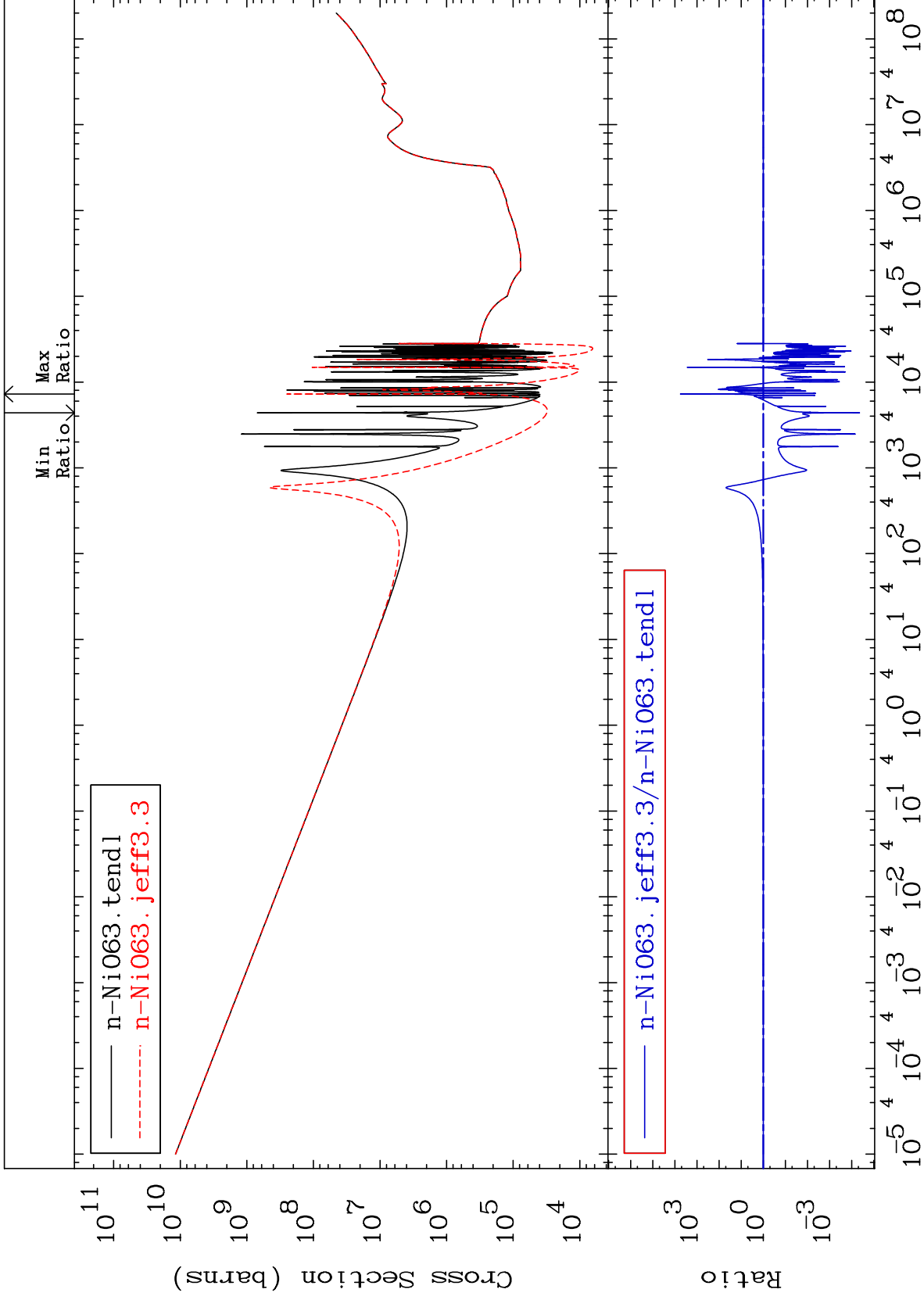
28-Ni-63  
-100.0 To 9999. %



60

Incident Energy (eV)

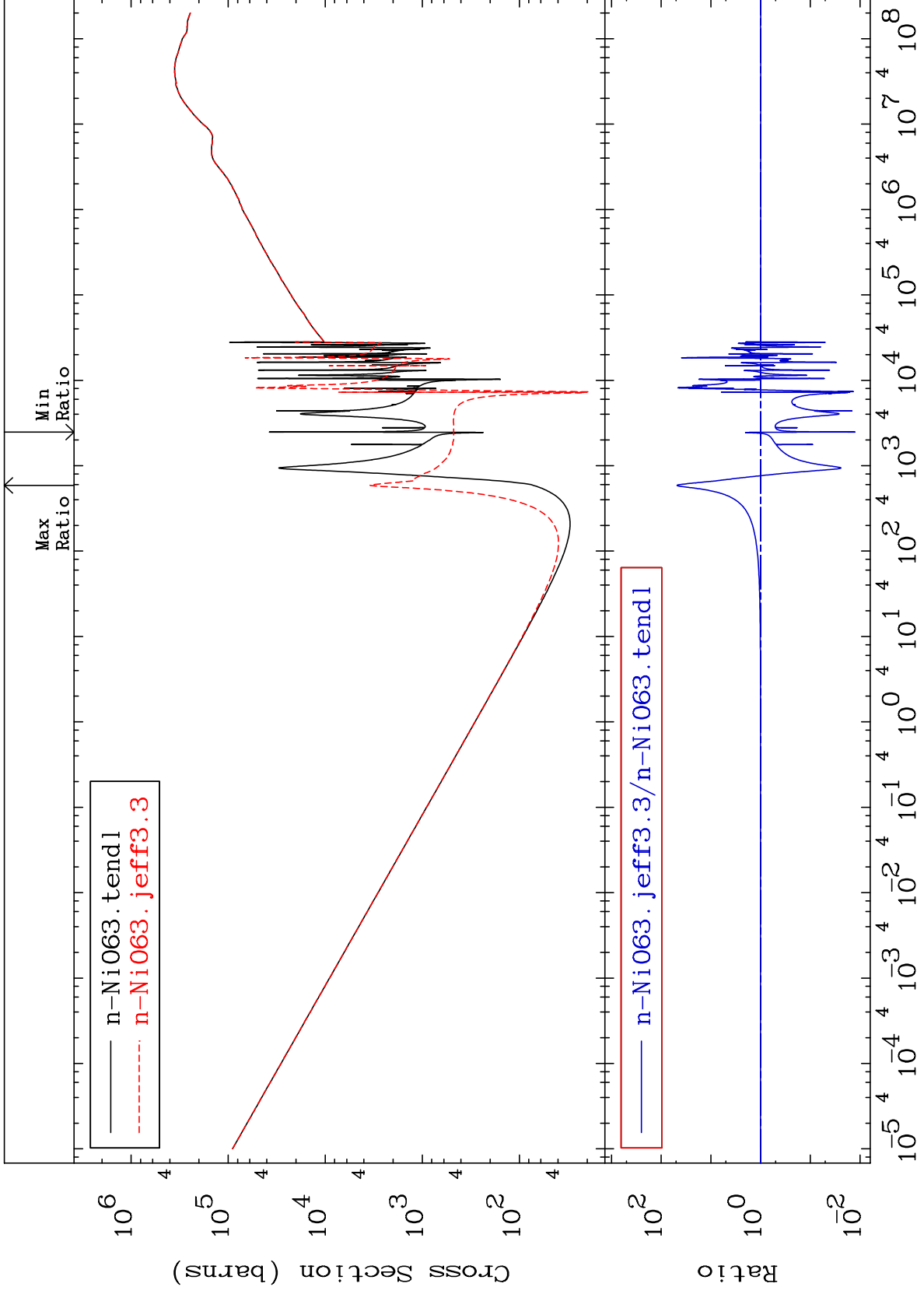
28-Ni-63



MAT 2840

Dpa total (eV-barns)  
Cross Section

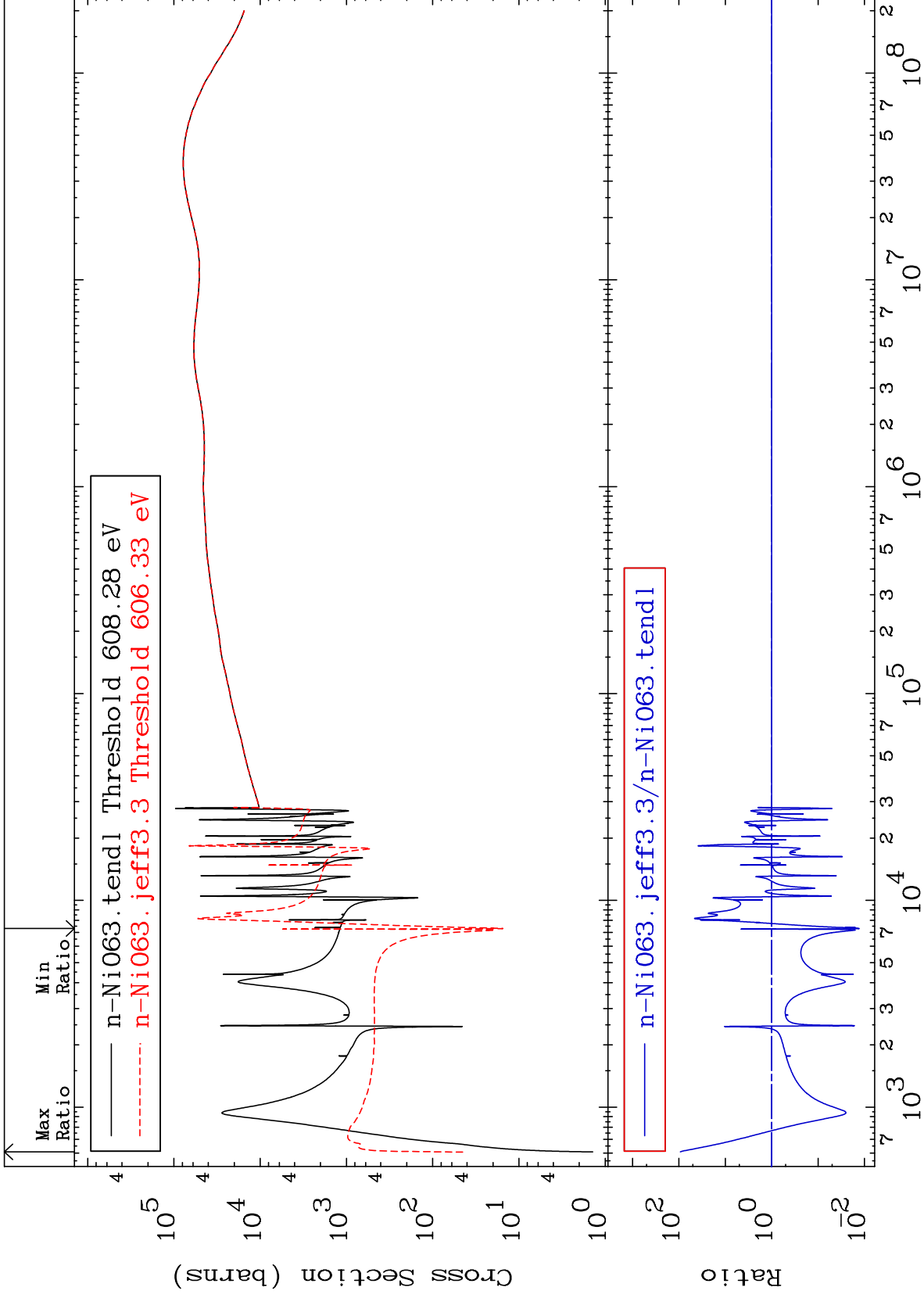
28-Ni-63  
-98.74 To 4723. %

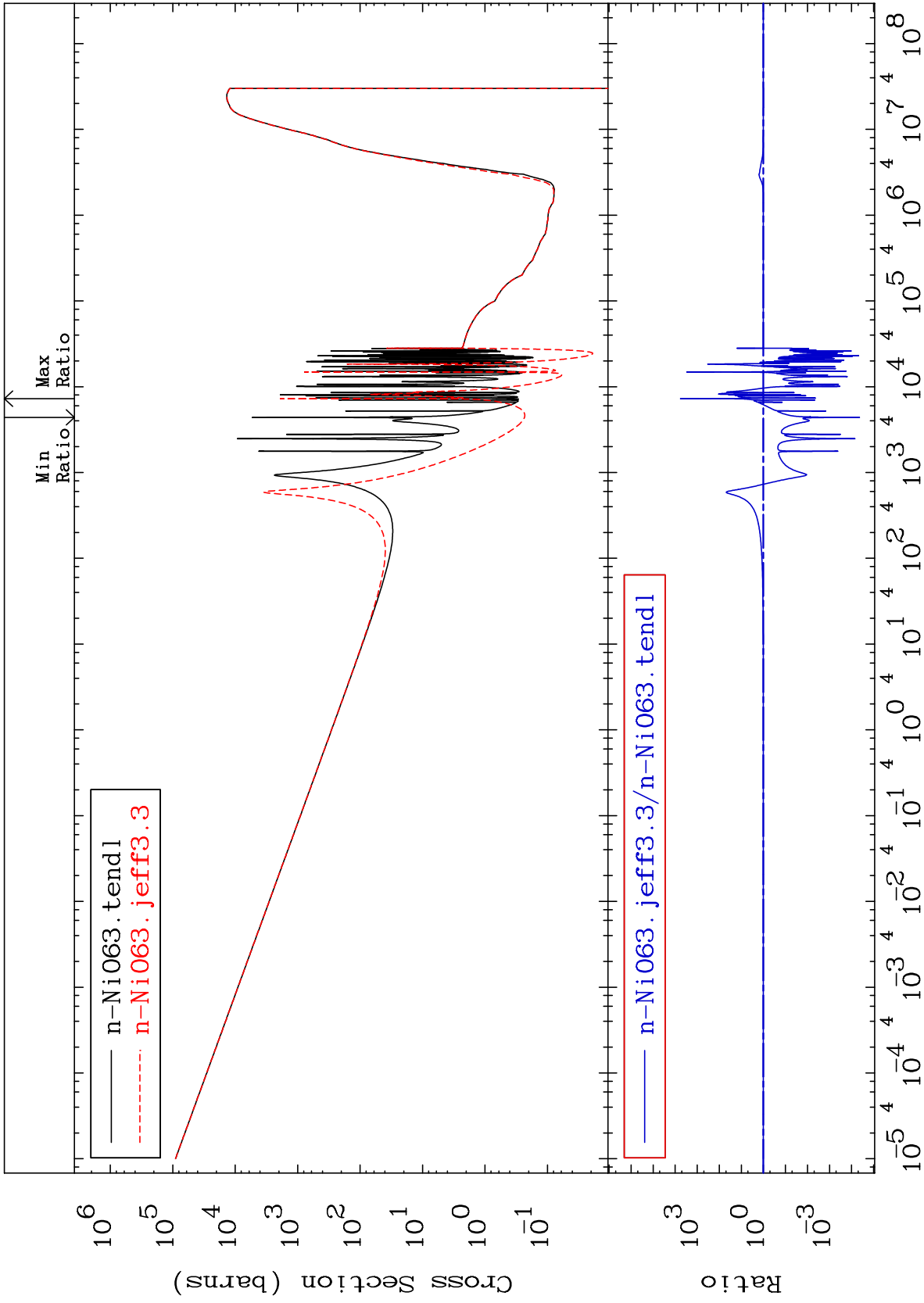


62

Incident Energy (eV)

28-Ni-63





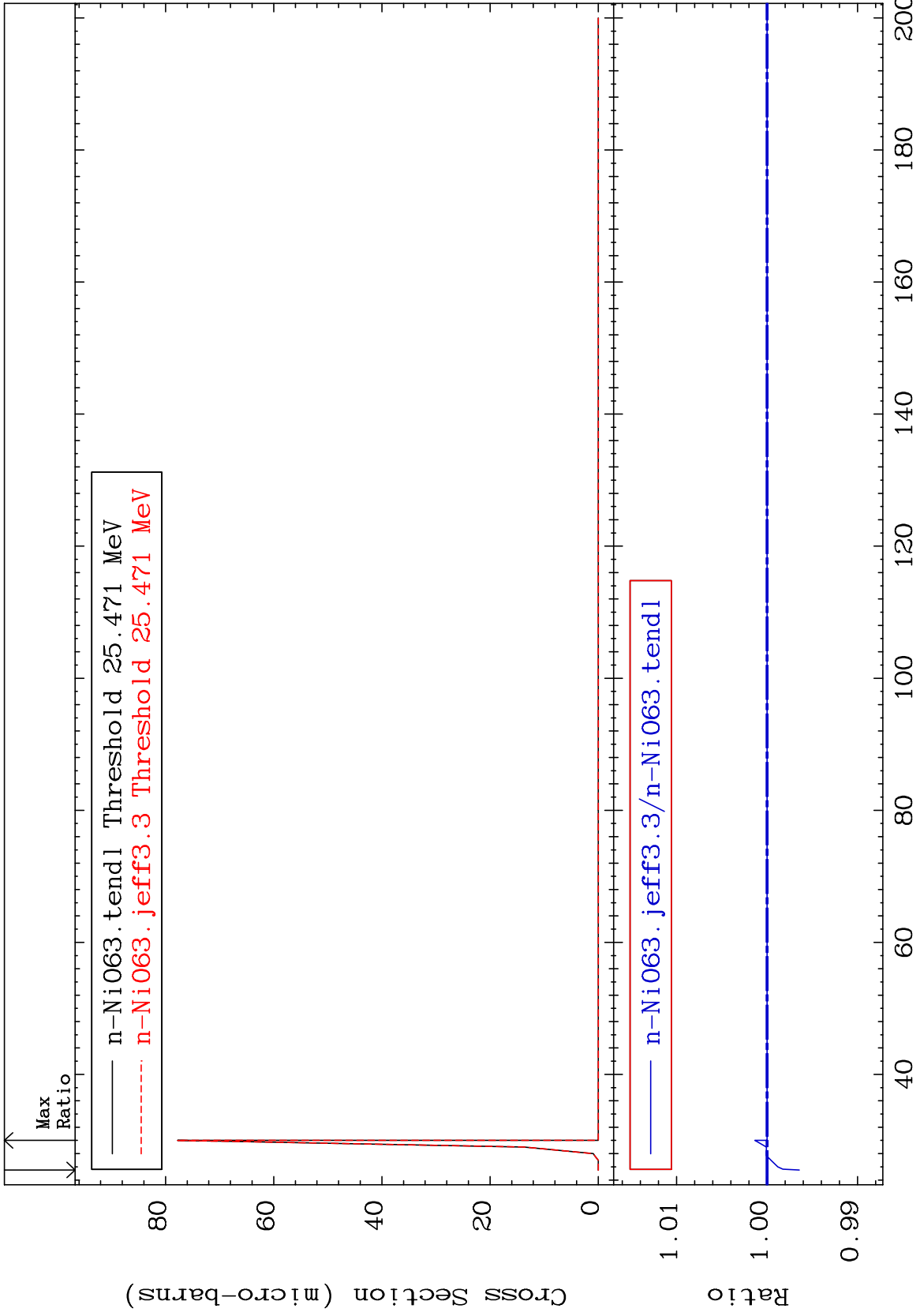


MAT 2840

(n,2n) d:27-Co-60g

28-Ni-63

Radionuclide Production Cross Section -0.357 To 0.135 %

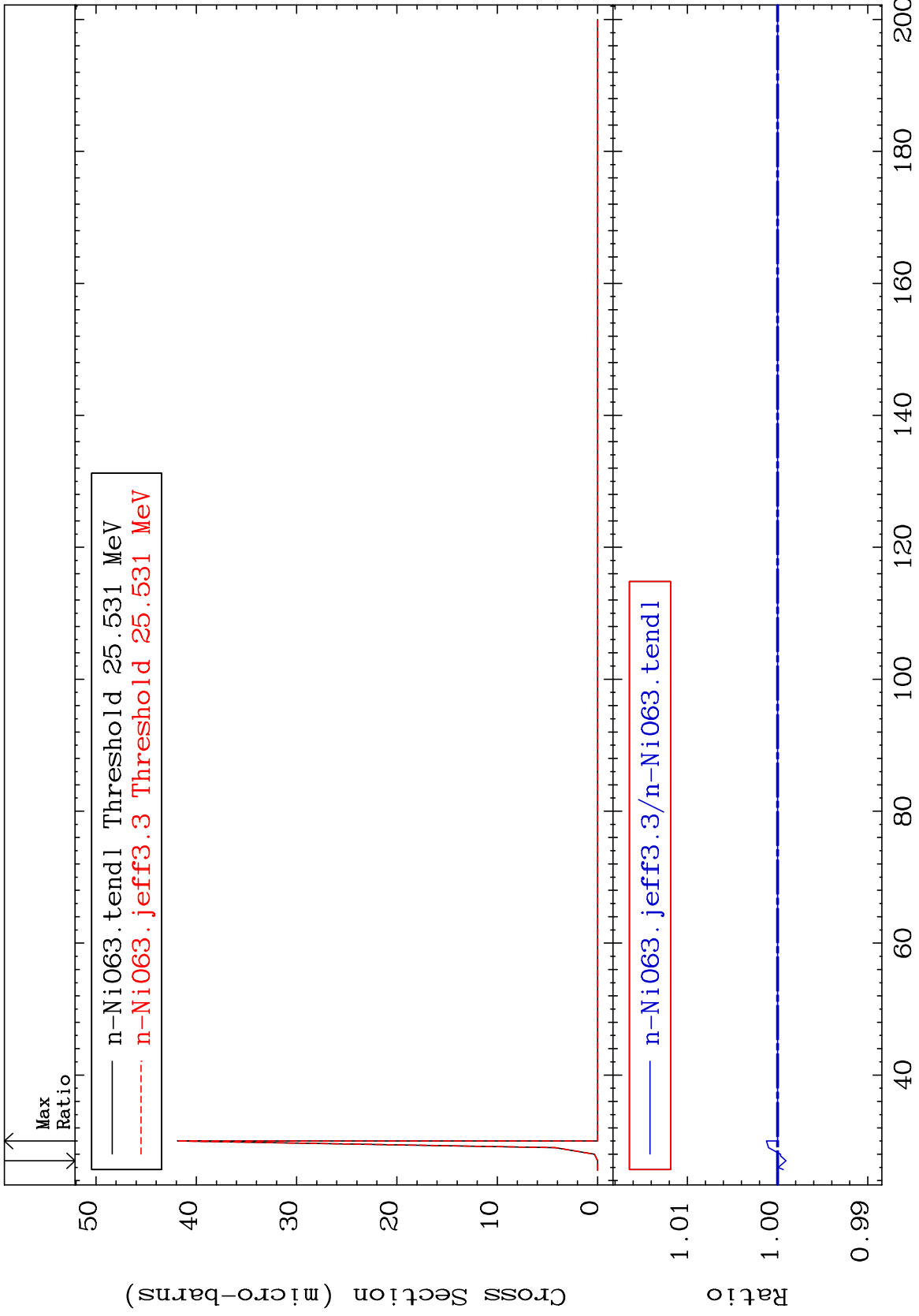


65

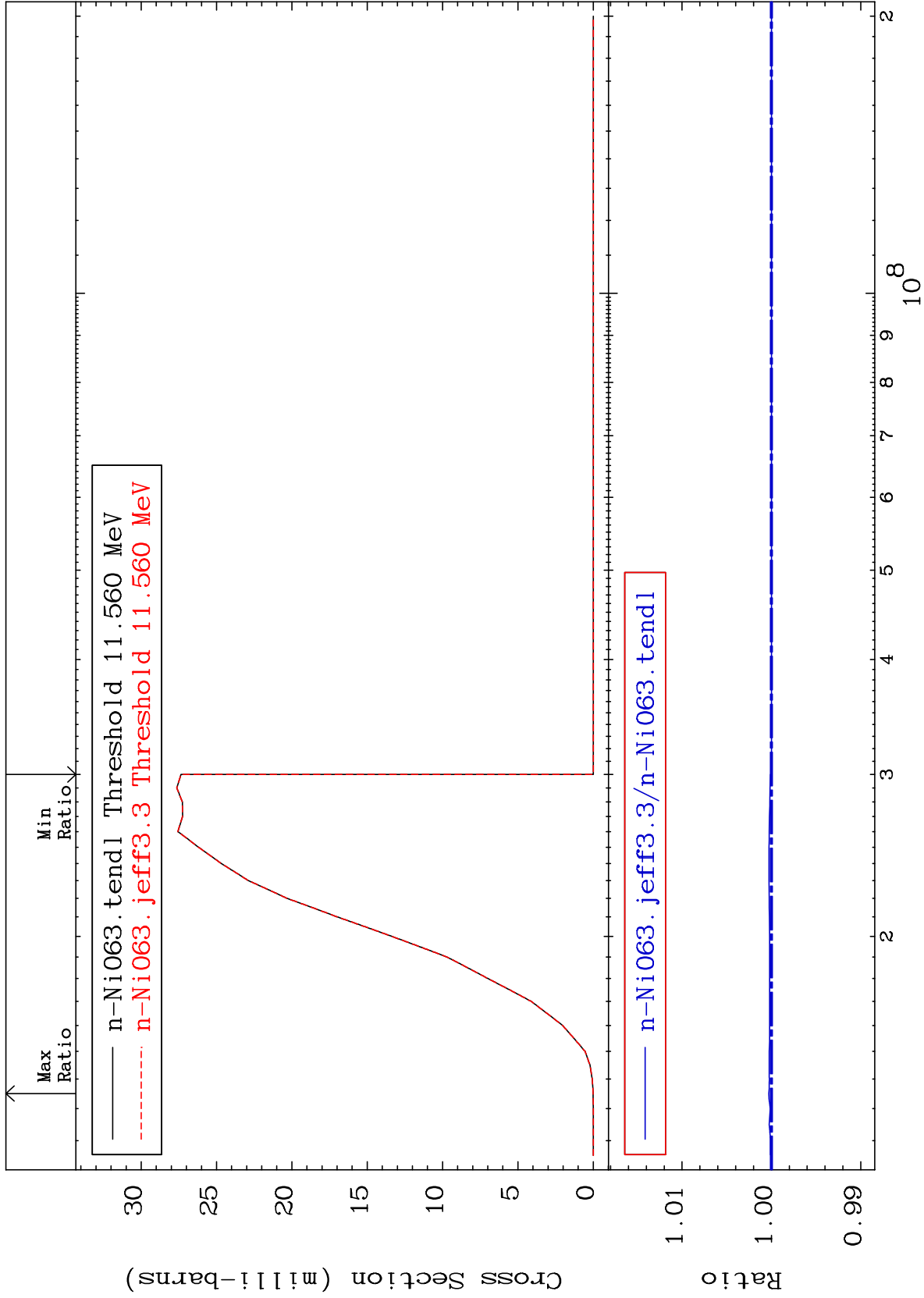
Incident Energy (MeV)

28-Ni-63

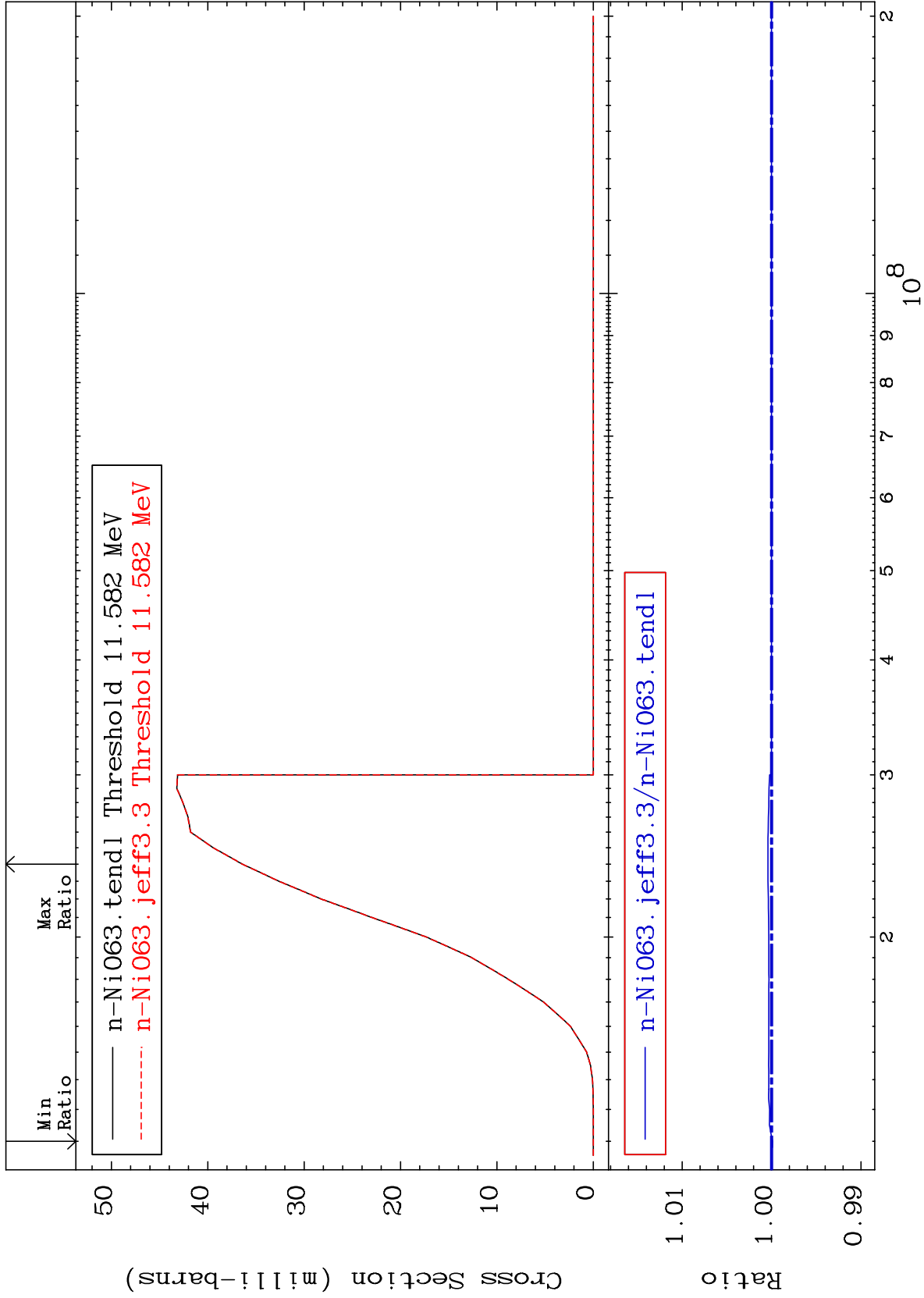
Radionuclide Production Cross Section -0.093 To 0.122 %



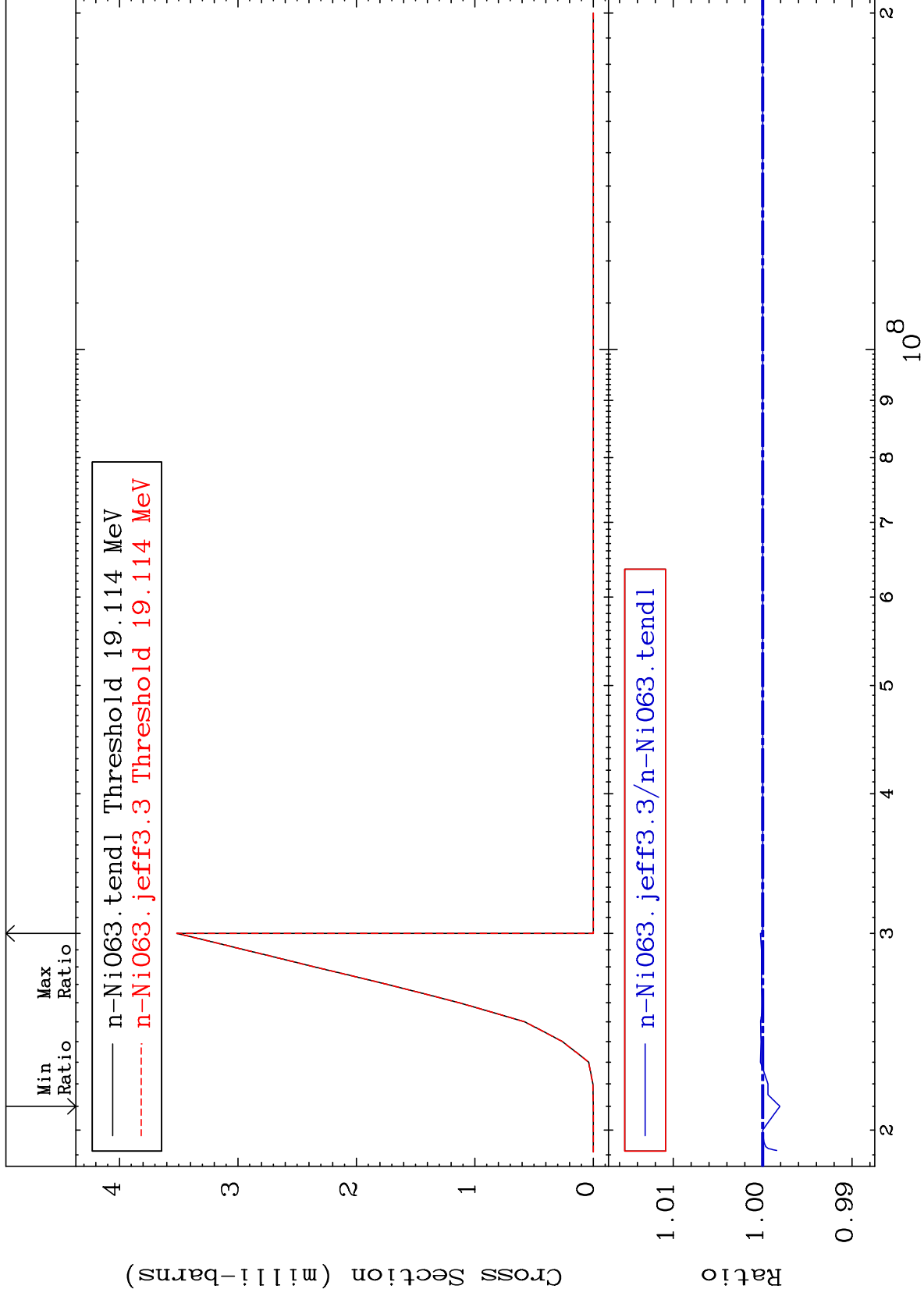
Radionuclide Production Cross Section 0.000 To 0.029 %



Radionuclide Production Cross Section -0.010 To 0.041 %



Radionuclide Production Cross Section -0.192 To 0.025 %

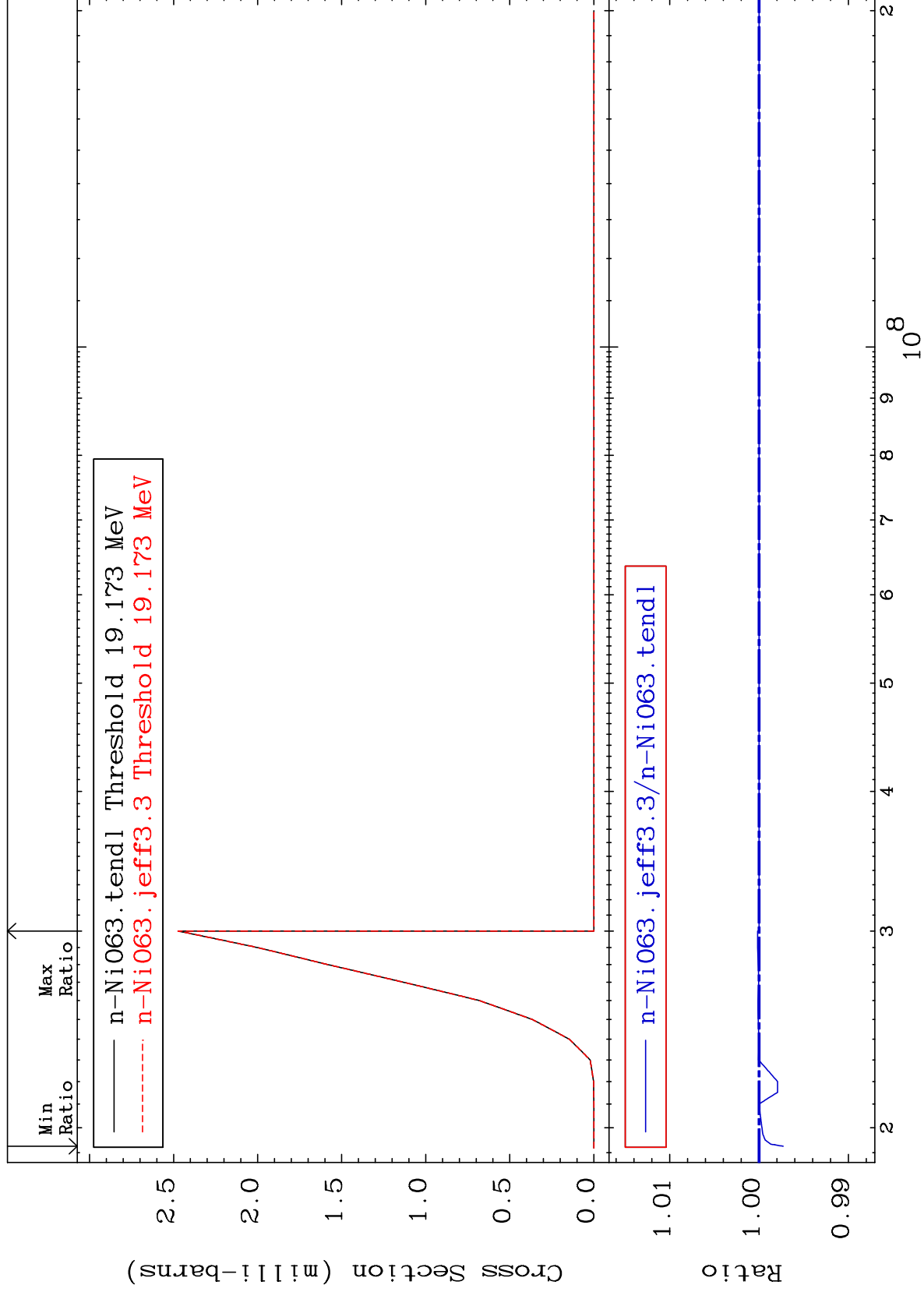


MAT 2840

(n, n') t:27-Co-60m1

28-Ni-63

Radionuclide Production Cross Section -0.270 To 0.017 %



70

Incident Energy (eV)

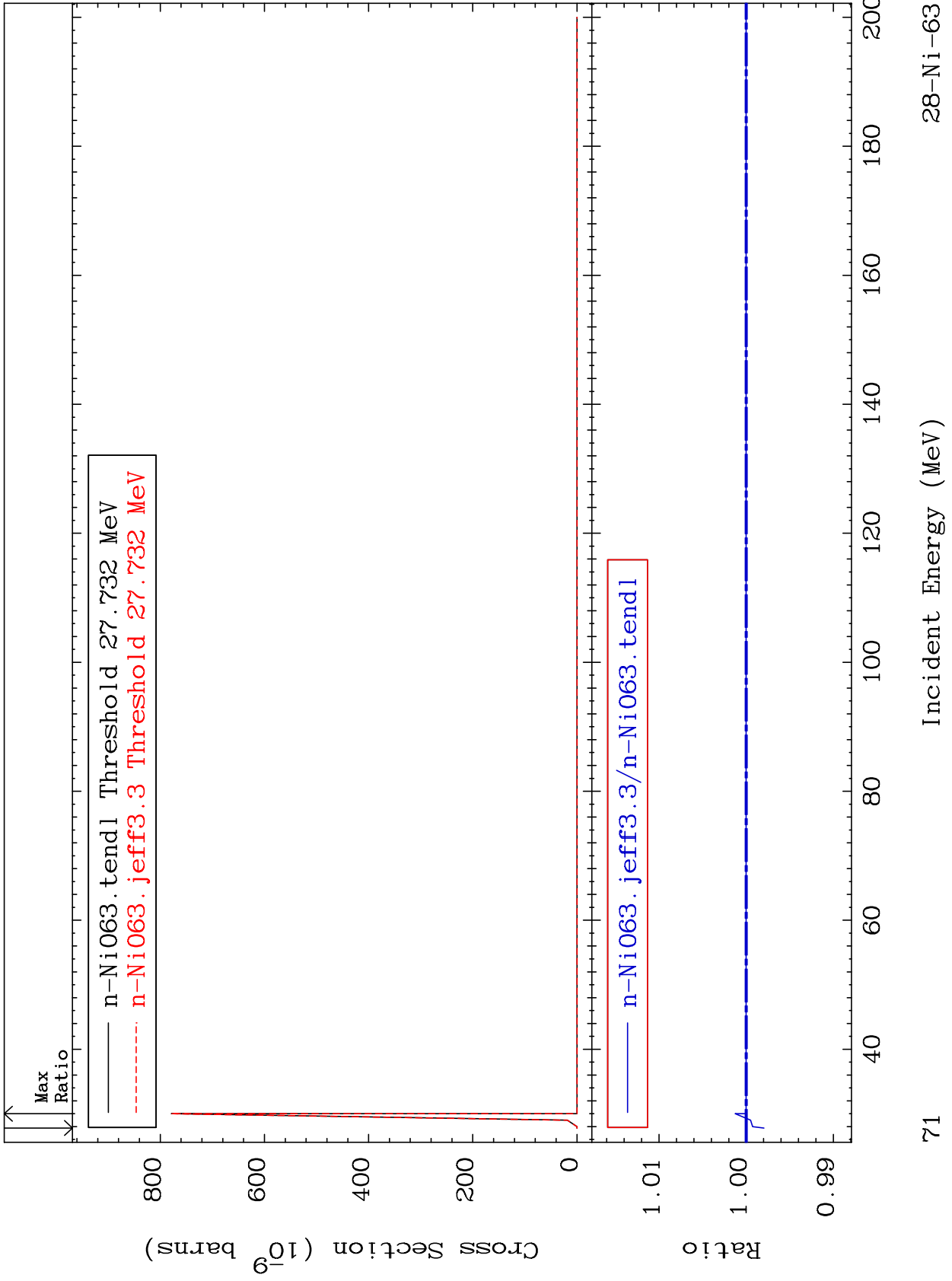
28-Ni-63

MAT 2840

(n,3n) p:27-Co-60g

28-Ni-63

Radionuclide Production Cross Section -0.203 To 0.128 %

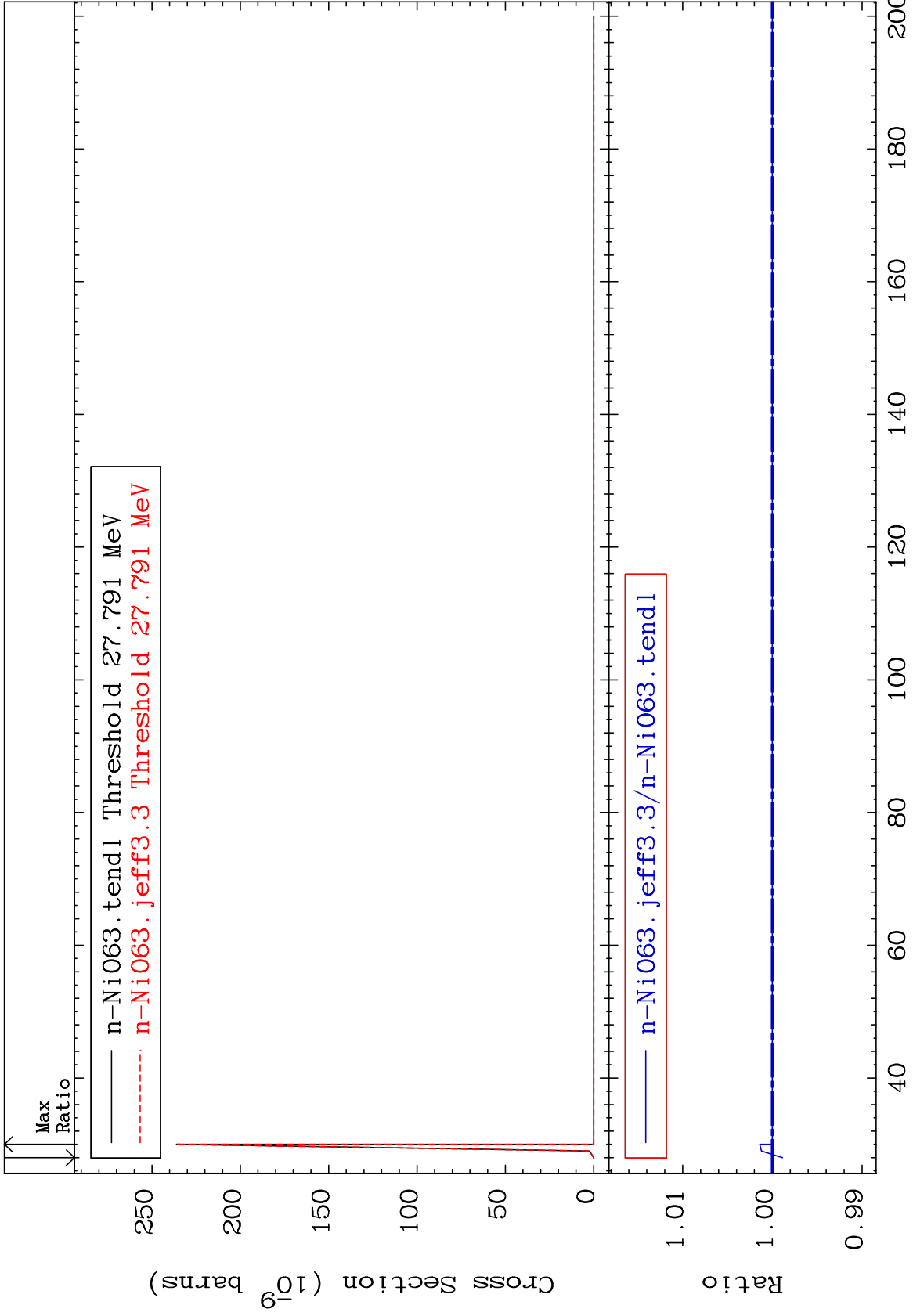


MAT 2840

(n,3n) p:27-Co-60m1

28-Ni-63

Radionuclide Production Cross Section -0.114 To 0.141 %



72

Incident Energy (MeV)

28-Ni-63

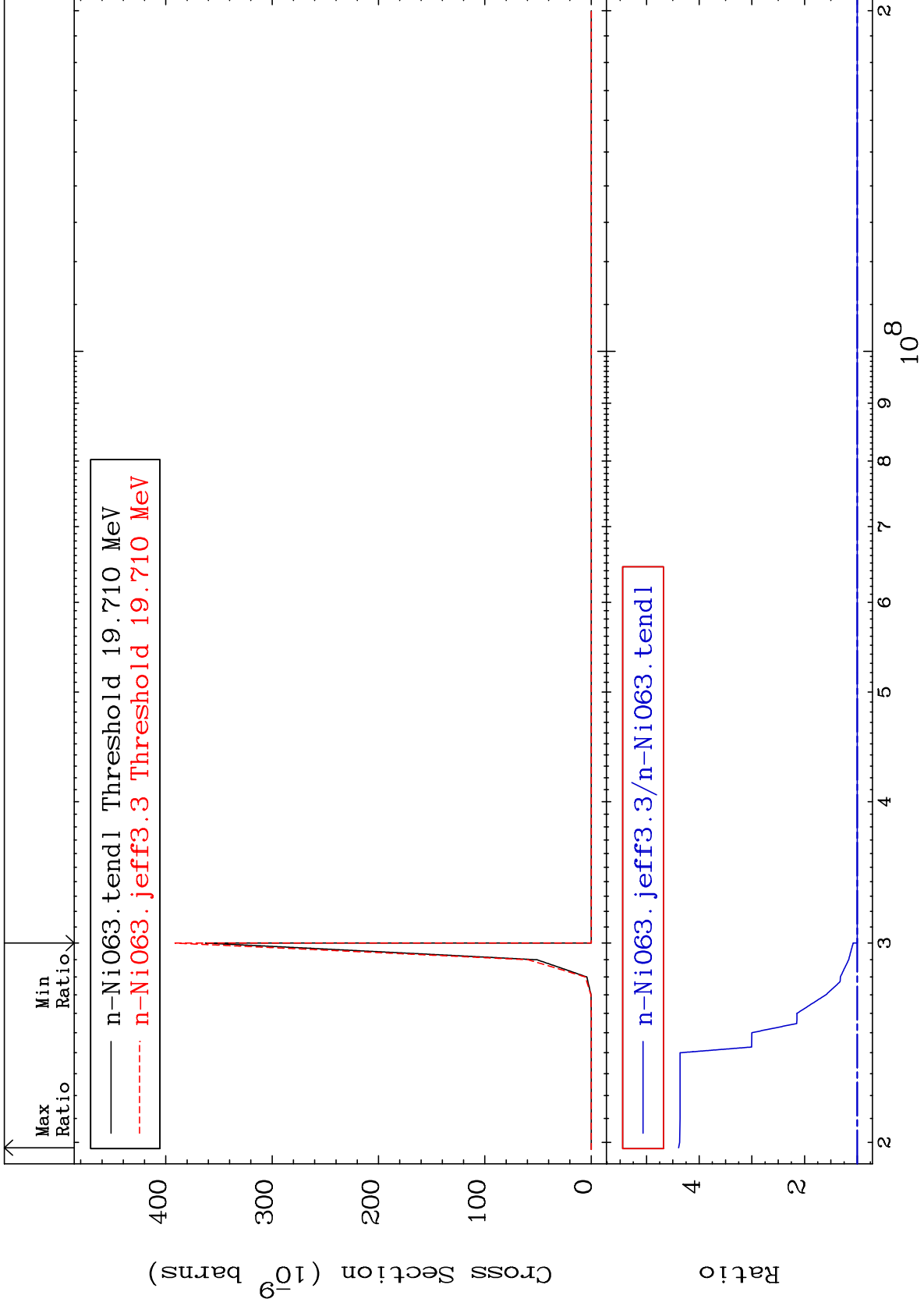


MAT 2840

(n,n') p  $\alpha$ :25-Mn-58g

28-Ni-63

Radionuclide Production Cross Section 0.000 To 339.0 %



73

Incident Energy (eV)

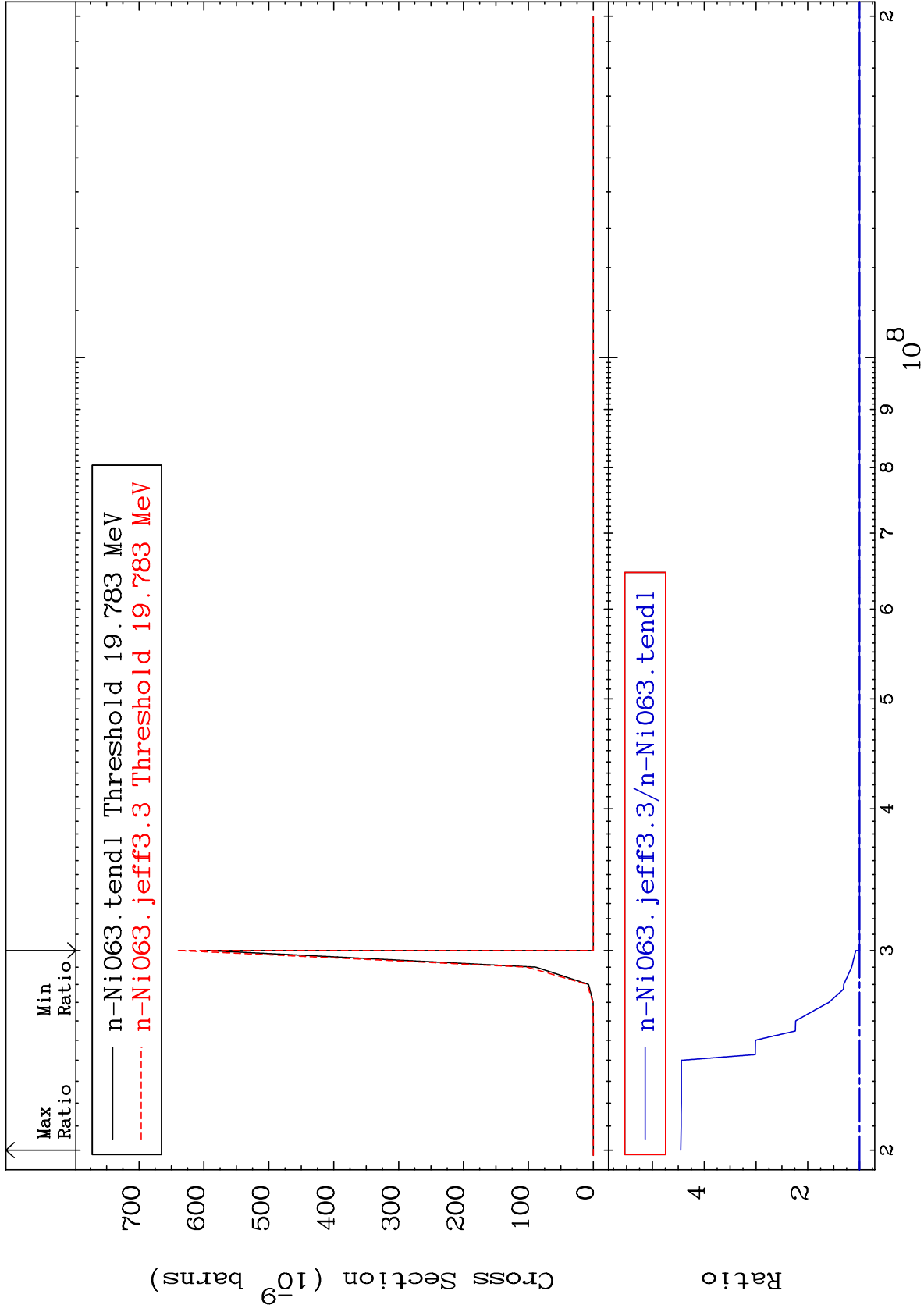
28-Ni-63

MAT 2840

(n, n') p  $\alpha$ :25-Mn-58m1

28-Ni-63

Radionuclide Production Cross Section 0.000 To 345.2 %



74

Incident Energy (eV)

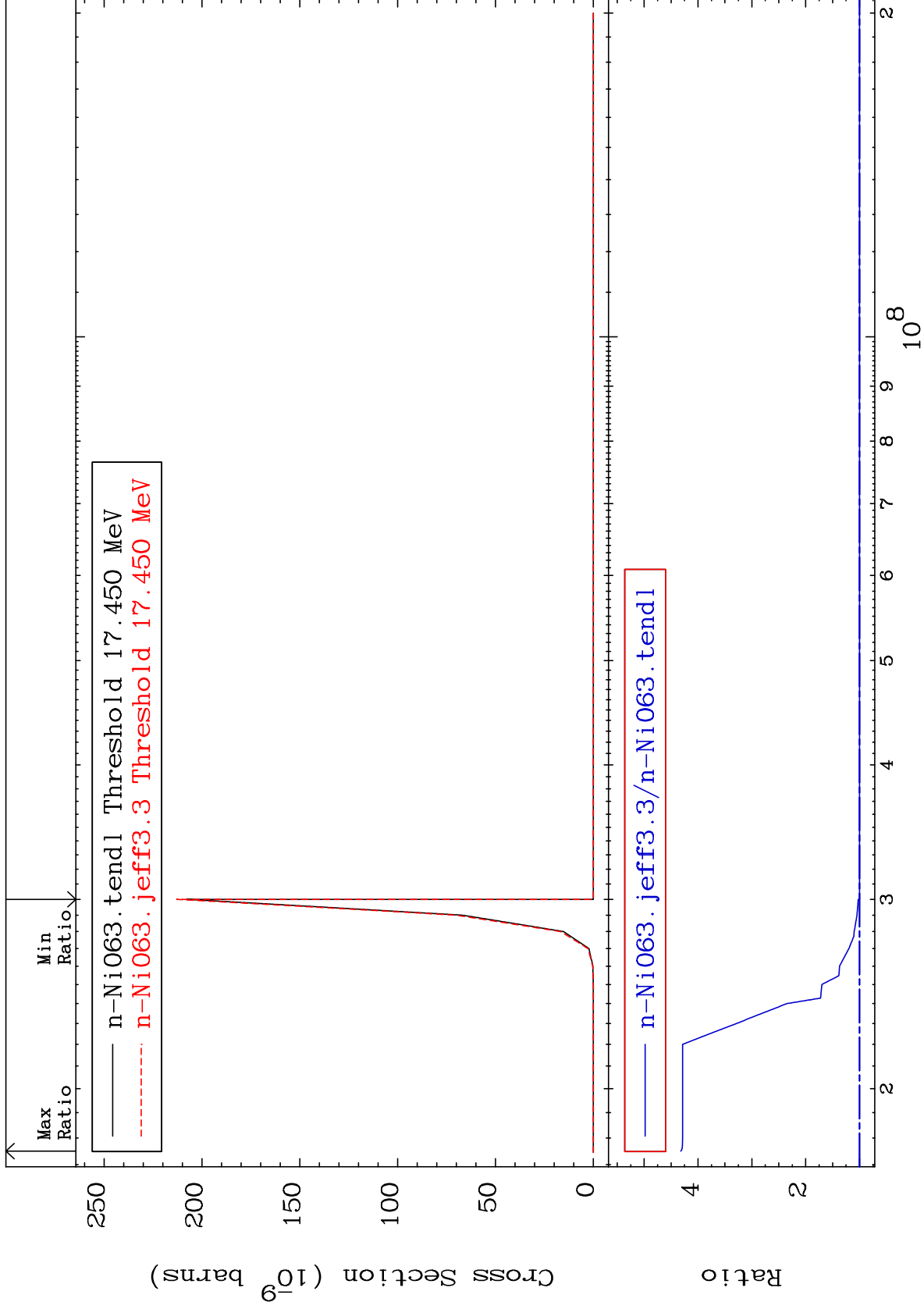
28-Ni-63

MAT 2840

(n, d)  $\alpha$ :25-Mn-58g

28-Ni-63

Radionuclide Production Cross Section 0.000 To 332.0 %



75

Incident Energy (eV)

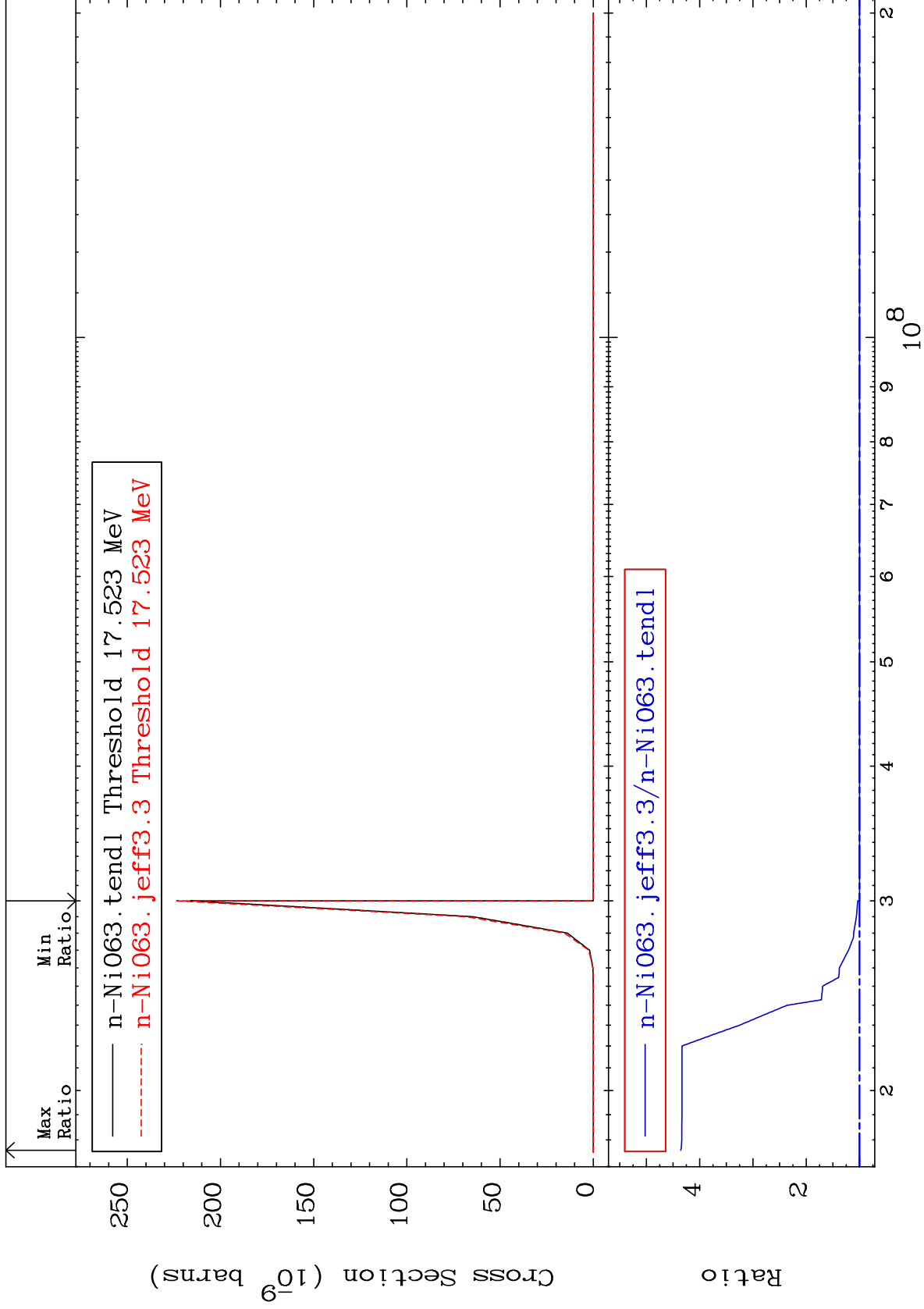
28-Ni-63

MAT 2840

(n, d)  $\alpha$ :25-Mn-58m1

28-Ni-63

Radionuclide Production Cross Section 0.000 To 335.6 %



76

Incident Energy (eV)

28-Ni-63