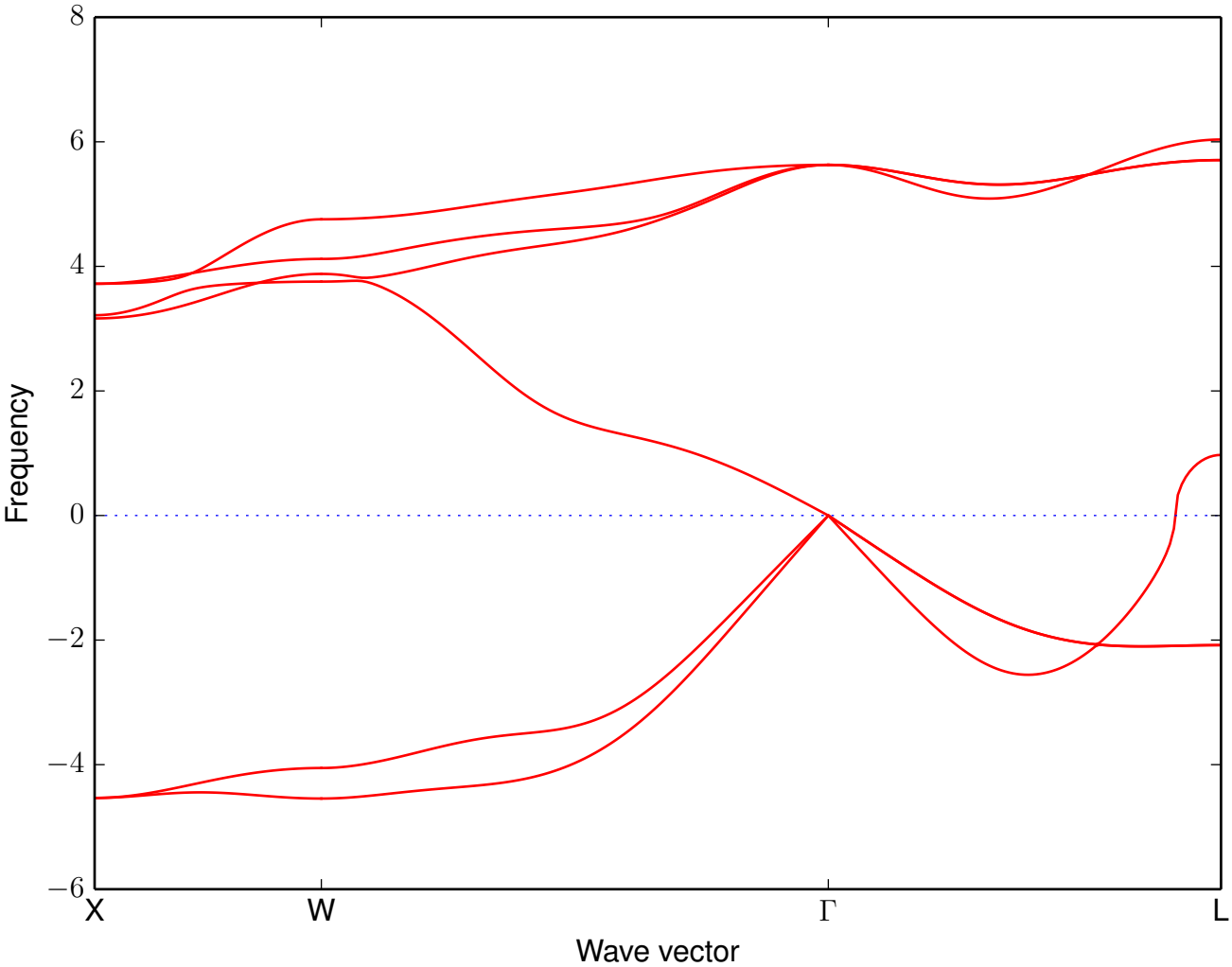
8
6
4
2
0
−2
−4
−6
Frequency
X
W
Γ
L
Wave vector