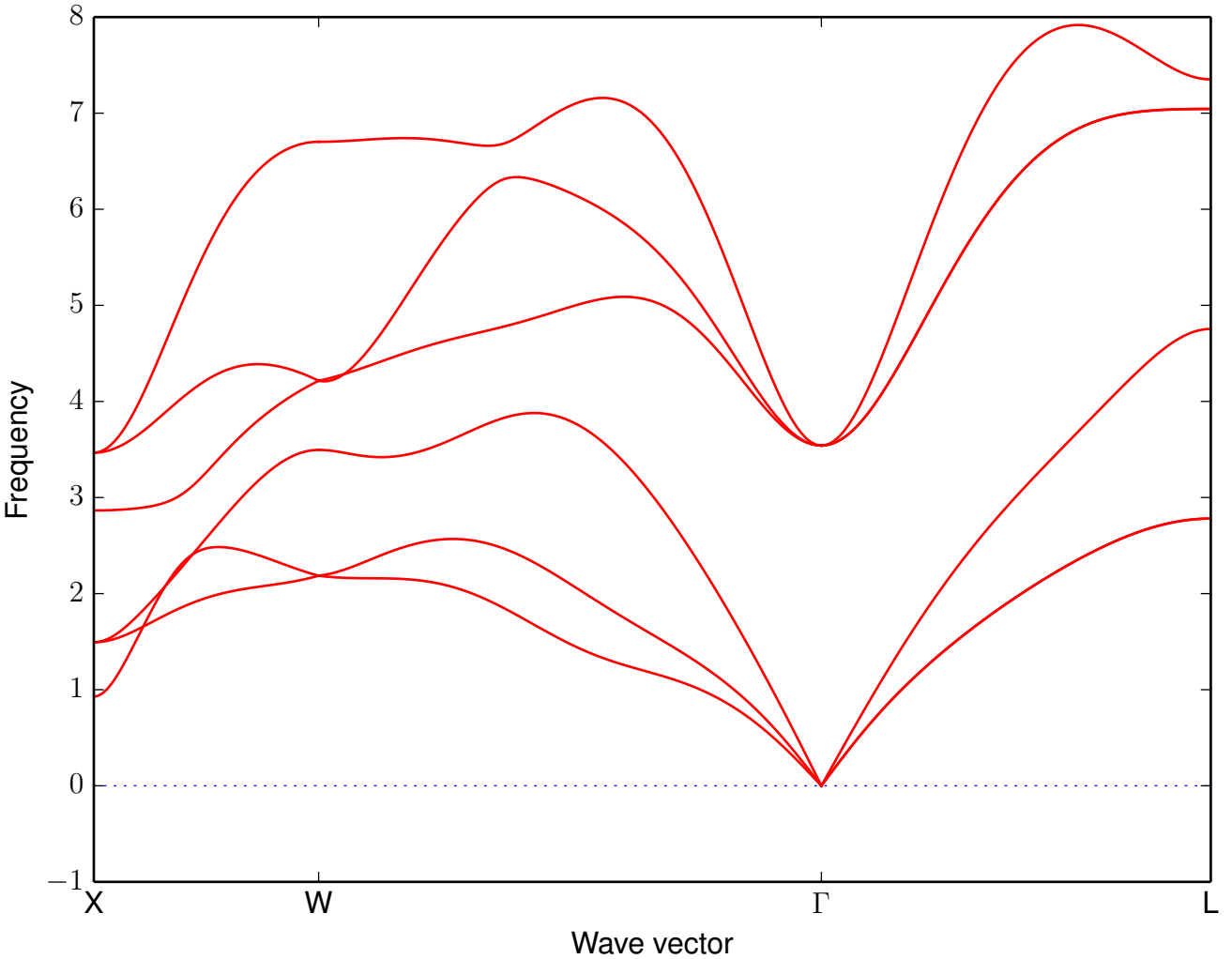
8
7
6
5
4
3
2
1
0
−1
Frequency
X
W
Γ
L
Wave vector