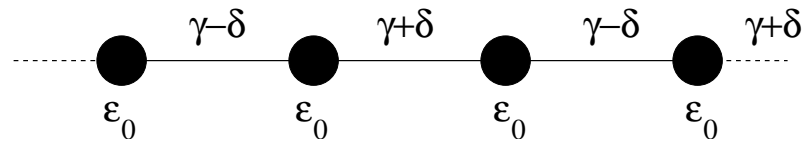


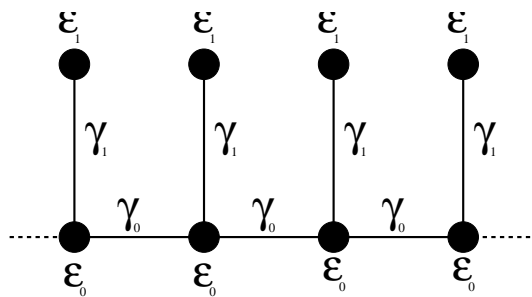
PY4T01 Condensed Matter Theory: Tutorial 2

1. Calculate the band dispersion for the following infinite molecular chain



Consider only $\delta > 0$ and study the bands as a function of δ .

2. Calculate the band dispersion for the following infinite molecular chain



Study the bands in the limit of $\gamma_1 \rightarrow 0$.