

Results

Transition Matrix Element

The transition matrix element $H_{ab}(\mathbf{k})$ is plotted in the function of $\vec{k}$ for a 1D structure in figure 1



Figure 1: Transition matrix element in the $\vec{k}$ space

Eigenvalues

The first eigenfunction's energy in the k -space is plotted in figure 2 for electrons, and in figure 3 for holes.



Figure 2: Energy dispersion relation in the $\vec{k}$ space for electrons



Figure 3: Energy dispersion relation in the $\vec{k}$ space for holes

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