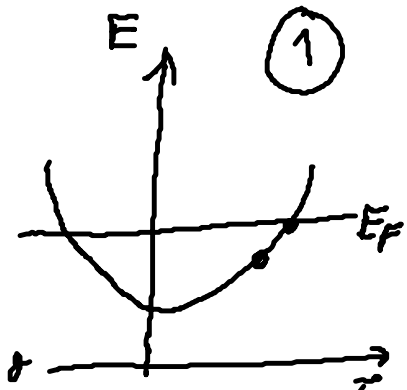


7.2 Elektron-Photon-Wechselwirkung

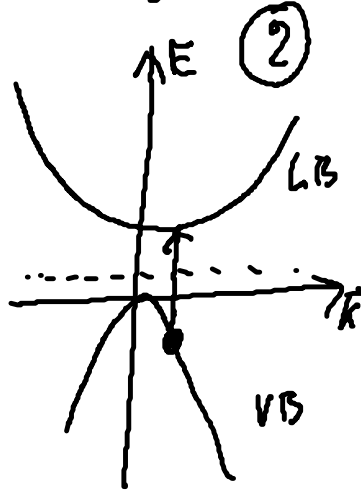
Metall



$\psi_L(k)$ Bloch-Zust.

$\vec{E} : Lk \rightarrow Lk'$
 $\hbar k' - \hbar k = -e \cdot \vec{E} t$

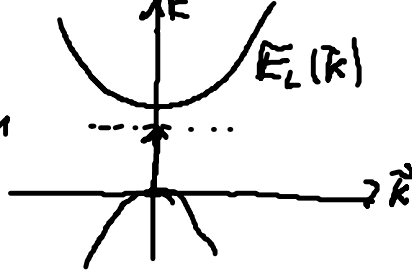
Halbleiter



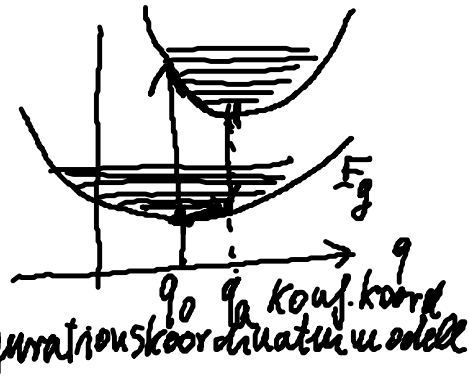
$\psi_V(k) \rightarrow \psi_L(k')$

EC-EL-WW

Exziton



Molekül



Einphotonprozesse

v : Lichtgeschwindigkeit

v_a : Schallgeschwindigkeit

Reststrahlenfrequenz

