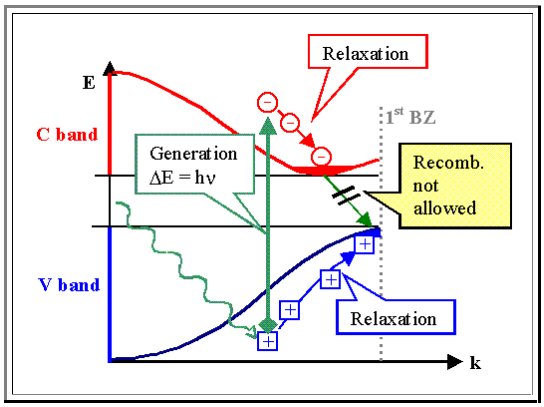
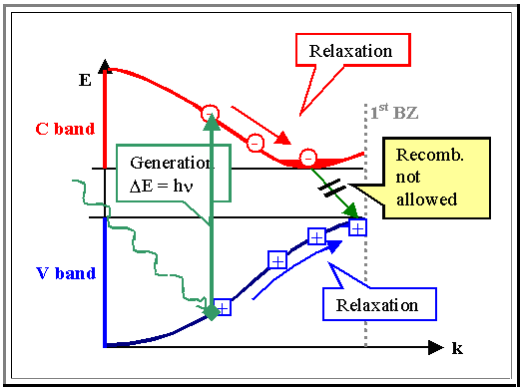
Mistake in Picture

Illustration

- What is wrong with this picture as shown in the backbone?



  - Well, let's look at the correct version:



- In k-space the only possible states for electrons and holes are right on the dispersion curve. An electron just somewhere as in the wrong picture, would have a combination of energy ***E*** and ***k***-vector (or, same thing, momentum) that simply does not exist.
  - Of course, by drawing it 100 % correctly, there would be so many things at the same point (e.g. tip/end of arrows, symbol for hole, dispersion curve) that the drawing becomes hard to "read".