75/10/2h . MALTA Meeting. I (6) = - qx = possible possible possible possible possible property met be possible and the possible · SI Bonn - Weighting field calcultion tool Thectory is what we are about in MICTA. inplant. Buch. to past hook. Judited Sericondutors. · Standa 1. bray/welste for Moraching with the stages
· Bika gitles for tot coole is Touteths. Jonathe solvey PSI. -> jonathen solvey@psi.ch. Thrody 17:30 in lab. -> fest interlocks. Trap laser, who legs. Cet layer e bem poniter en scope. 17 See if the bear moniter system e trigger show the same. Slight delay. · Oscillosape agustin software Bilpa reeting 11 Tuesdays. -> 17th for MALTA.

P

7

Lason photon energy of E= hc = 1.17eV

Silican = 3.6eV. So how does leser promote et pair in Silican 2

So how does laser promote the pairs in sition?. Indirect Sente and others.

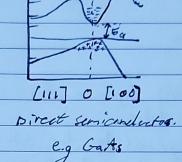
Silican is an indirect seriouductor.

This means, that, in the space, the minimum of the conduction band does not orline with the maximum of the valence band. As shown bellow.

[111] O O O O O]

Endirect Suricocholos

e.g Si, Ge



Es in Silican is a 1.17eV, but since the minima e required to glar the momentum of the electron / hote. (as p=t,e): average energy required to grave energy required for the pair a 3.6eV.

However, this is possible for this momentum change to come from phonous in the crystal buttice, I therefore

Rose-Einstein distribution, the proposition of the transition is temperature dependent.

it is possible for the translate to occur for Ex 63.6eV