Notes 3

Monday, September 20, 2010 12:20 PM

10 crystal

maltiloger Silm aka Bragg Minor

 N_1 N_2 N_1 N_2

Inaditional Method

Dichetric Micron

Transnissins & reflection one

out of plase

constructing interfeet ca active perfect reflection

Cet's do it differently 1) Apply symmetries; 1) Continuely knowletioned in X, y or has nimor symmetry in x,y please 2) periodic symmetry in 3 with lattire vector a from I know are an quantify under it to 11 + 1 mohes => k Som 2 know get Block wodes e 1 kg y (3) er: periodic function with W: Land # Ky: Bloch # ky: were It of parallel nodes 7 3 U(z)= U(z+R) N=la Look @ possille velux for Ruthy

continous' translational symmetry

ku can be anything

kg: only ned Brillain zore ag lotice vertr

recipied latter vector

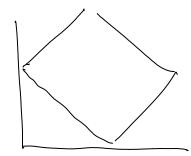
27/2 57 -1/2 < kz < C

 $\lambda = \frac{2\pi}{3} = \frac{C}{4} = \frac{C}{2\pi}$ $= \frac{2\pi}{3} = \frac{C}{4} = \frac{C}{4}$ $= \frac{2\pi}{3} = \frac{C}{4} = \frac{C}{4}$ $= \frac{2\pi}{4} = \frac{C}{4} = \frac{C}{4} = \frac{C}{4}$ $= \frac{2\pi}{4} = \frac{C}{4} = \frac{C}{4}$

U= KC VGF

Loho Sand Cap Sigures

frey Oa



-.5
Warverta .5

ko/27 anit les Nomber
21/1 that relates 12 - a for generalization S.7 = anit less notion

25 7 = that relates for a ell charts scale up a so only need to salve for (at have all selakions S. of 1 this is proposetion in homogeness modimm h= 1 linear fig 2 looks sinilar but 1) "line" is steaper @ ka ~ ±15 so near edges of Brillow you the linear rulas hors hip breeks down

N=1 1º bard ends @ ~ 1.48 NEZ bowl starte o 21.49 for all w between 1.48.27 (No prop. is allowed Sarel Gap!!! why? It edge of Brillion for $k = \frac{\pi}{a}$ modes have 2 = 2a two potatial weys for 6 5, 'ald to

be localized as squarty

Sig 3

some effect but much more drawakic

the higher He index redir the legath

gasp