Weyl semi metals normal insulator Wegl senimetal 3 unocc E Junoec Model touching "Way pt"

Note: There might be lots of Ward points deep in valence or conduction bands.

We are mainly interested in oney between velence + conduction bands.

Origin?; (a) Symmetry (6) Janene

Teneric West nodes! At arbitrary K, neither I nor This a good agrammetry I Special cose; Cystal has I and TR; then IXTR maps 16 > 6, get knowners dependent at all 6. For now, assume this is not the come.]

H_{2x)} (k) =
$$f_0(k) + f_0(k) \cdot \sigma$$

Example: $f_0(k) + f_0(k) \cdot \sigma$

Hand to draw on 2D paper!

Hand to draw on 2D paper!

The E = $\pm v_0 k$

Chirality:

Let $A_{ij} = \frac{\partial f_i}{\partial k_j}$

Labore: $A = v_0 \cdot I_{343}$
 $X = agn \cdot det \cdot A$

E. $g_{ij} \cdot f_{ij} \cdot f_{ij} \cdot f_{ij}$
 $f_{ij} \cdot f_{ij} \cdot f_{ij$

EN N+1 If X=+1; "Magnetic in k-space States in bond n+1 see -27 Beny flox XTX XYX X D > > Dxxx band nx1 band n If 2=-1, xxx 70+ X13 XXX bond n+1 bond n

Nielsen - Nino miya Hoosem # of bond n (or seem over 1 ... n) Slice them member must return 5 2; =0 tall Weyl points between n and n+1 in 30 Bt

See p. 260 in text for coreful argument,