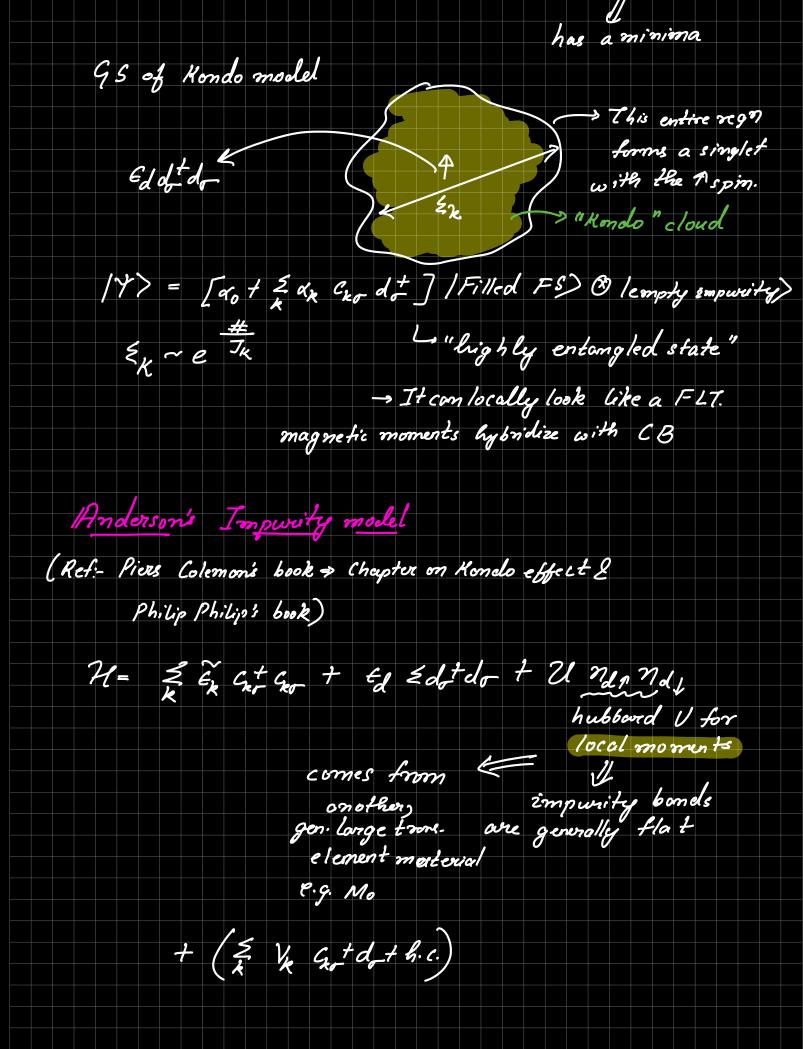
Physics 211C: Solid State Physics Instructor: Prof. Tarus Grover Lecture 8 lopic: Kondo effect phenomena, Anderson Impurity model and its mean-field solution Solution Sphonon - 75 Se-e ~ 72 for an ordinary (pure) metal However, when magnetic impusities are poesent, sis non-monotonis-This motivated studies on the so called "Kondo effect" Help = EEx Cut Ger + Jk (c+ Frc). 5 (r=0) \ Kondo Color of scattering from impurity s color of the scattering from impurity s de to be comes pronounced at low temp. this kind of behaviour leads to DS- log (Tx) : 100 (tx) + 72



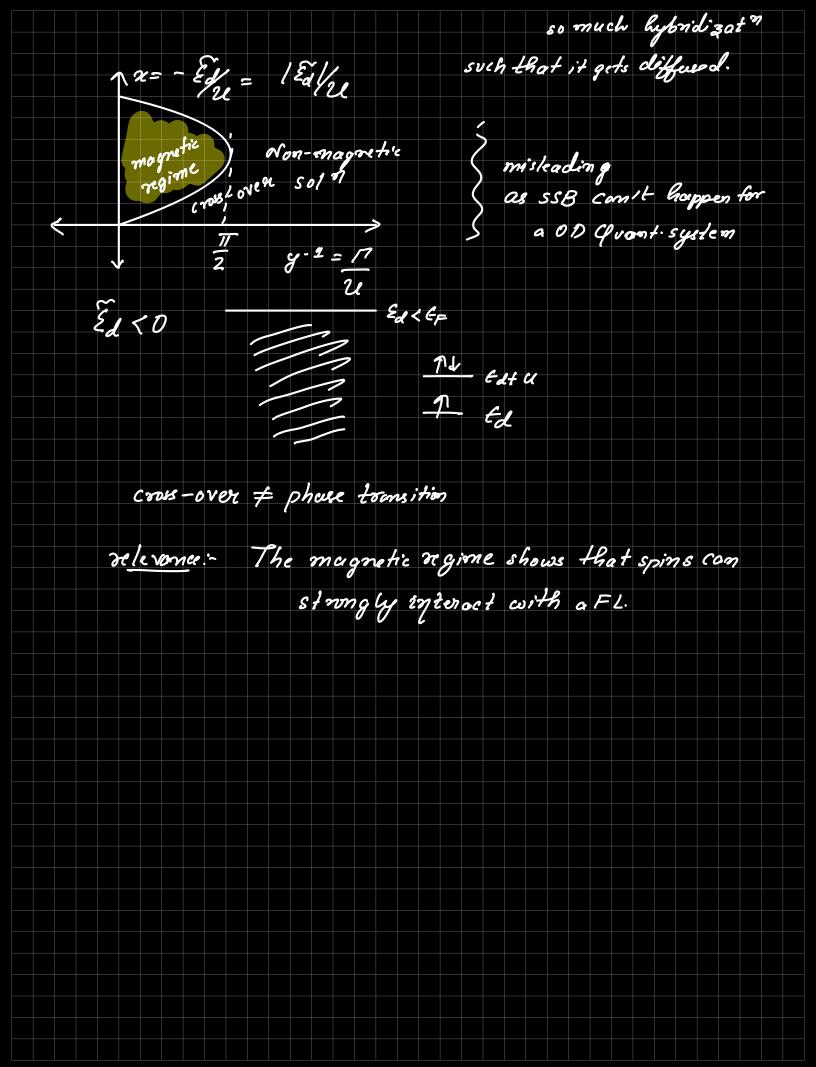
$$Gdd = \langle d_{r}^{+}(\omega)d_{r}|\omega\rangle = \frac{1}{\omega - \left(\frac{r}{2} + U\langle n_{d-r}\rangle + \frac{2}{\kappa} \frac{|M_{1}|^{2}}{\omega - \frac{r}{k}}\right)}$$

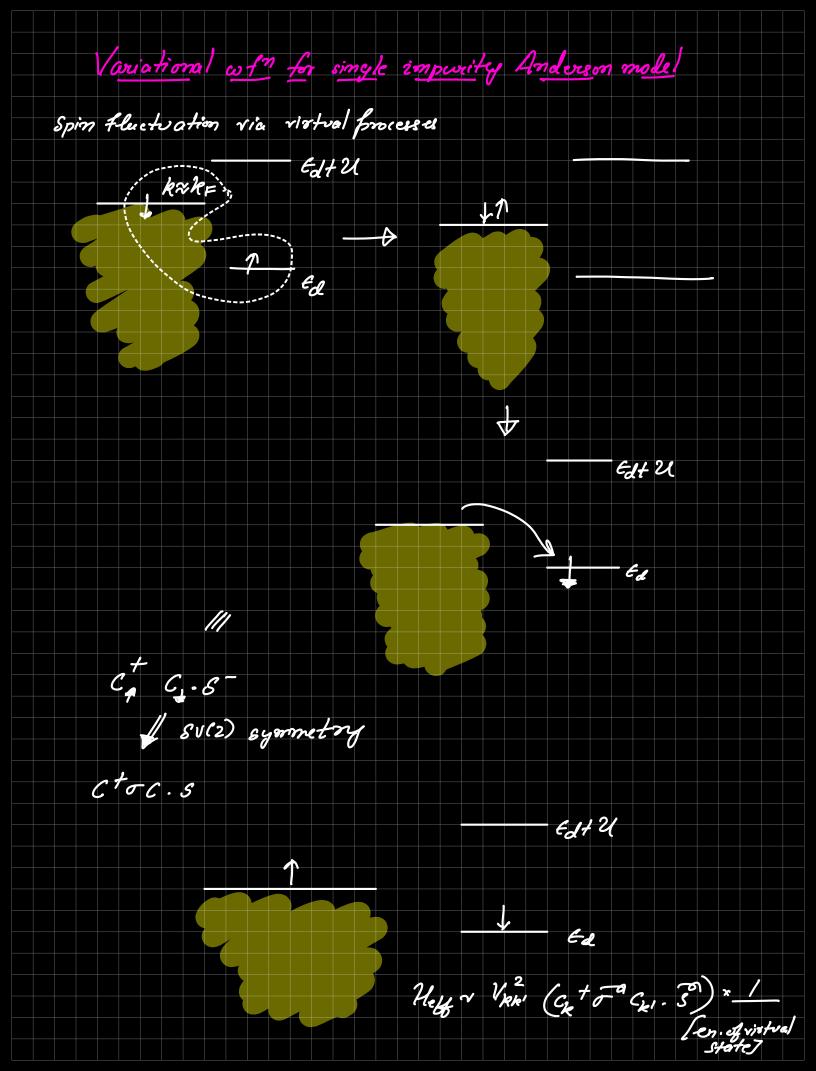
$$dos: Tom G(\omega + ie)$$

$$\int_{a_{r}}^{a_{r}} (\omega + ie) = \int_{a_{r}}^{a_{r}} \int_{a_{r}}^{a_{r}} (\omega + ie) \Big|_{a_{r}=0}^{a_{r}} dr$$

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DEN EL-Eq

$$\Delta E_{Z''} \quad 2l + E_{J} - E_{g}$$

$$A_{EMB} \quad \gamma + |V|^{2} \quad \leq \quad \zeta + \zeta^{2} C_{K'} \cdot S^{2}(0)$$

$$A_{rotifonamagnetic} \quad \gamma \quad T_{K} \quad C_{CJ} \cdot S^{2}(C_{K'}) \cdot S^{3}$$

$$A_{rotifonamagnetic} \quad Promof Kando model is metive bid by such 2nd order processes.$$

$$Variational \quad N \quad f^{2} \quad for Kando model$$

$$|T' = [x_{0} + Z \quad acm \quad C_{K'} \quad d_{+}^{2}] \mid 0 \rangle$$

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$$|T' = [x_{0} + Z \quad acm \quad C_{K'} \quad acm \quad constraints \quad co$$

