[CO7 (HW 2009,7.8 Inhomogenso Maynet N=-J≤ S; S; - ≥ H; S; S; = £1, J>0 Soft S:= M(C) MF DOBORDED $\mathcal{H} = -J \leq S_i \cdot \left[m(\Gamma_i + \hat{x}a) + m(\Gamma_i - \hat{x}a) + m(\Gamma_i + \hat{y}a) + m(\Gamma_i - \hat{y}\hat{a}) + m(\Gamma_i + \hat{y}a) + m(\Gamma_i - \hat{y}a) \right]$ $-\frac{1}{5} \left[w \left(+2 \right) + w \left(L \right) + \frac{2}{5} w \left(L \right) + \frac{2}{5} w \left(L \right) \right]$ $= - \leq S_i \cdot \left[6Jm(r_i) + Ja^2 V^2 m(r_i) + H_i \right]$ = - < S. Help 2 m(r) = tent (BHer(r)) 8275 /60 N = kanh (BJ (6m(r)+a2 P2m(r))+BH(r)) m(r) ~ BJ (6m(r) + a2P2m(r)) + BH(r) T=7c (2) 12 20 EU 2018 Cy 2012 WOUL JEL m = 6BJm + BH $m \approx \frac{H}{kT-6J} = \frac{H}{k(T-T_c)}$ 1 Te = 6J 17(r)=253(r) star (ii) $\mathcal{H}(\bar{e}) = \lambda$, $m(\bar{e}) = \int m(\bar{r}) e^{ik\bar{r}} d^3r$ K MONP ME D2 > -62 STUD (132 m(k)= (6BJ-BJa2k2)m(k)+Bd $m(\bar{u}) = \frac{d}{k_B T - 6J + 5a^2k^2} = \frac{d/k_B}{(T - T_c)(1 + g^2k^2)}$ /2= Ja2

 $M(\bar{r}) = \int m(\bar{n}) e^{-ik\bar{r}} \frac{12k}{(2\pi)^3}$ ~ \[\left(\frac{e^{-i\epsilon \cos\theta}}{1 + \frac{g^2 \epsilon^2}{2}} \] \[\frac{e^{-i\epsilon \cos\theta}}{1 + \frac{g^2 \epsilon^2}{2}} \] \[\frac{e^{-i\epsilon \cos\theta}}{1 + \frac{g^2 \epsilon^2}{2}} \] ~ 1 [kdk 25/n (er) / 1/3 / 1/3 ~ I sude su (er) = 1 Per keiler der K=+in -2 bill 51200 010175 ~ f. 2011 Res(...) ~ fe- 7/5 2066 (20) Mage (MOd) 10) Lecil 2- 0-1 (= < m(0) m(F)> = < m(F)> < + e - 7/8 2000 5 DICS Editled.