

## Summing up:

1. Model A dyn. of  $O(N)$   $\varphi^4$  th.  $\rightarrow$  Ferromagn. Models with Glauber dyn.
2. Model C dyn. = scalar = =
3. Model A dyn. of Diluted Ising Model

1. (a)  $X^\infty$  in the limit  $N \rightarrow \infty$  agrees with exact sol. of Spherical Model  
(b)  $X^\infty$ :  $N=1$ ,  $\epsilon=1$  0.429(6) [ $\sim 0.40$ ] 3D  
 $\epsilon=2$  0.30(5) [0.26(1)] 2D  
 $\Rightarrow$  Good agreement with MC for 2D and 3D Ising-Glauber Model  
(c) Small correction to MF for scaling funct.  
 $F_R(\nu) - 1 \sim \epsilon^2/72$  for  $N=1$   
 $F_R \neq 1$  at  $O(\epsilon^2)$  ! LSI?
2. (a)  $X^\infty$  the same as for 1. with  $N=1$ , up to  $O(\epsilon)$   
(b)  $F_R \neq 1$  at  $O(\epsilon)$  ! LSI? MC!
3. (a)  $X^\infty$  close to that for Pure Model ( $1., N=1$ )  
(b)  $F_R = 1$  at  $O(\sqrt{\epsilon})$