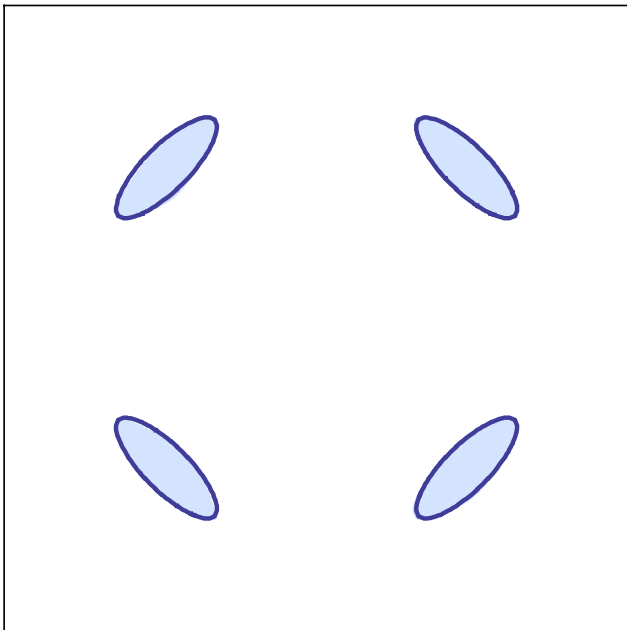


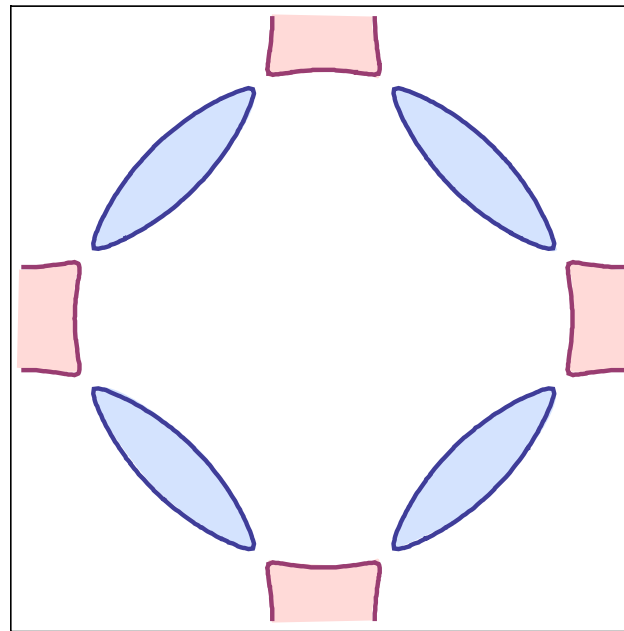
# Square lattice Hubbard model with hole doping

$\Delta \neq 0$   
and large



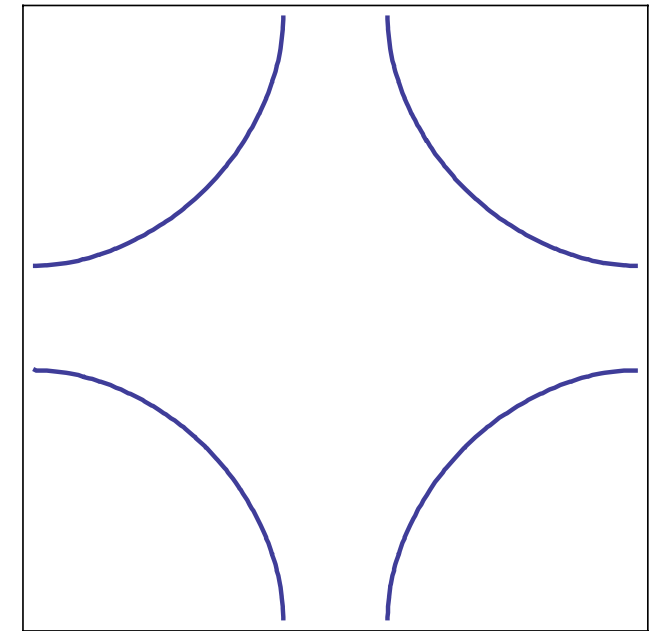
Metal with  
hole pockets

$\Delta \neq 0$   
and small



Metal with  
electron and  
hole pockets

$\Delta = 0$



Metal with  
“large” Fermi  
surface