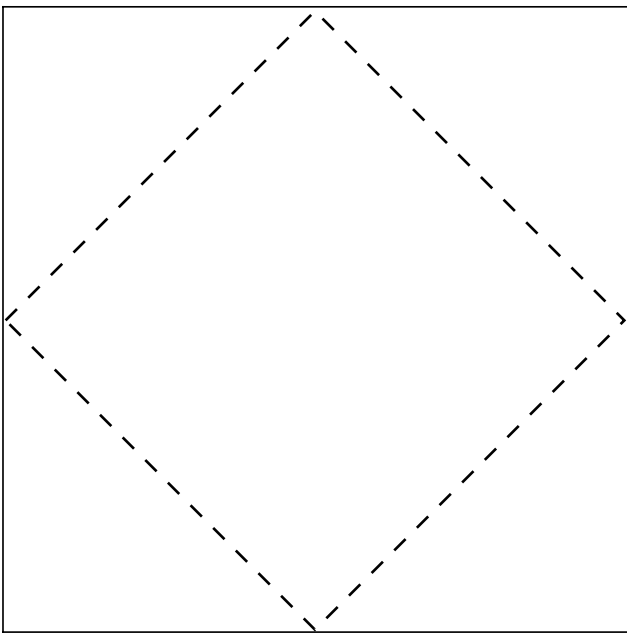


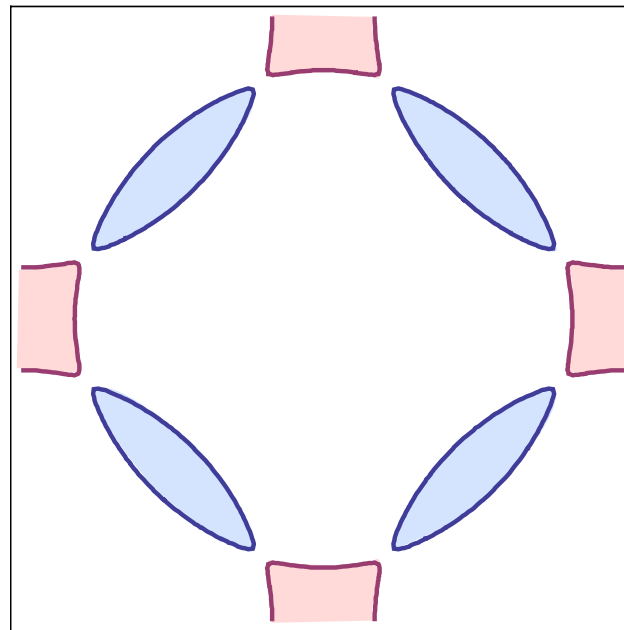
Square lattice Hubbard model with no doping

$\Delta \neq 0$
and large



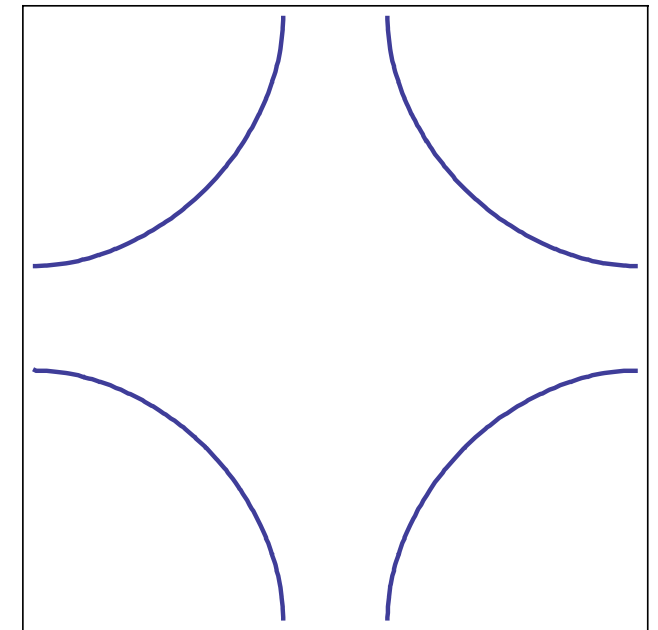
Insulator

$\Delta \neq 0$
and small



Metal with
electron and
hole pockets

$\Delta = 0$



Metal with
large Fermi
surface