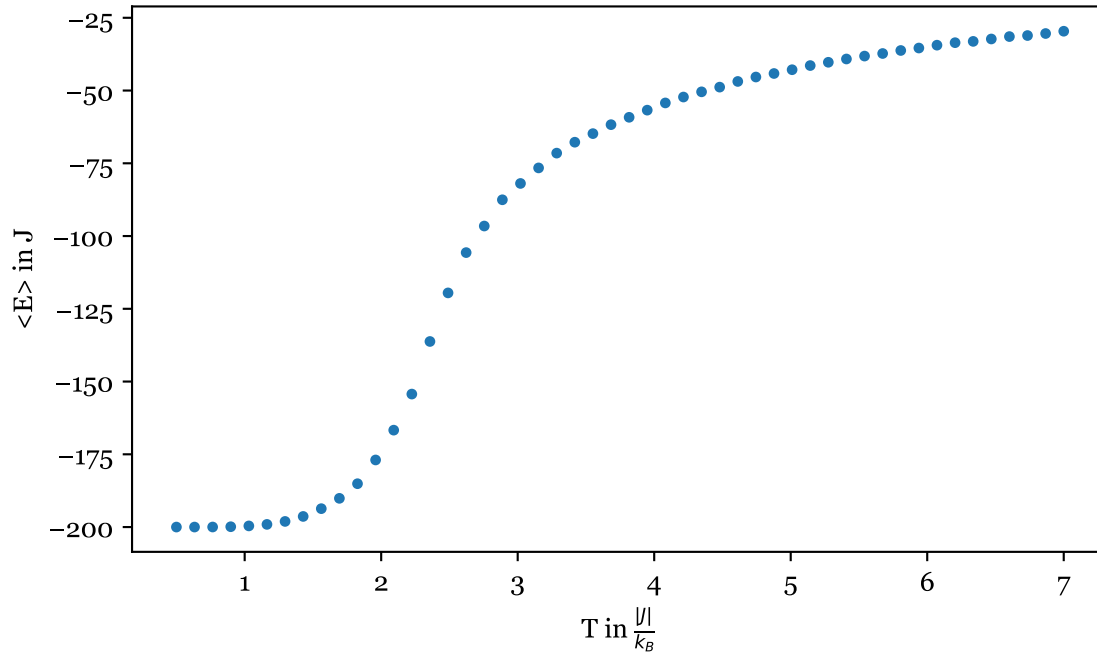
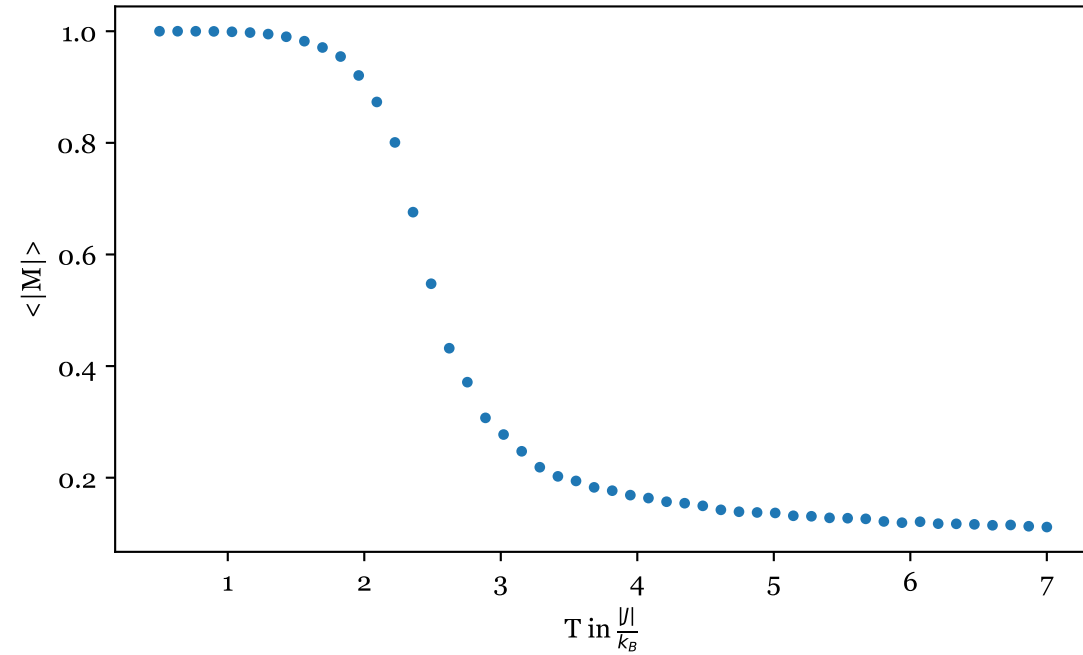


# Ferromagnetic Square Lattice $J = -1$

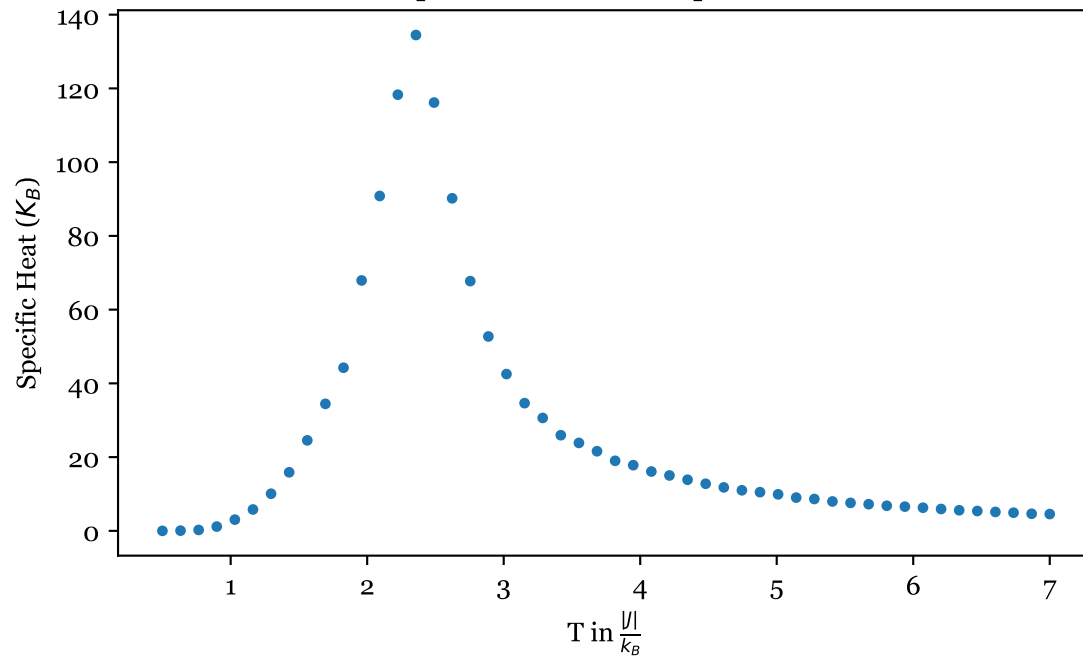
## Energy vs Temperature



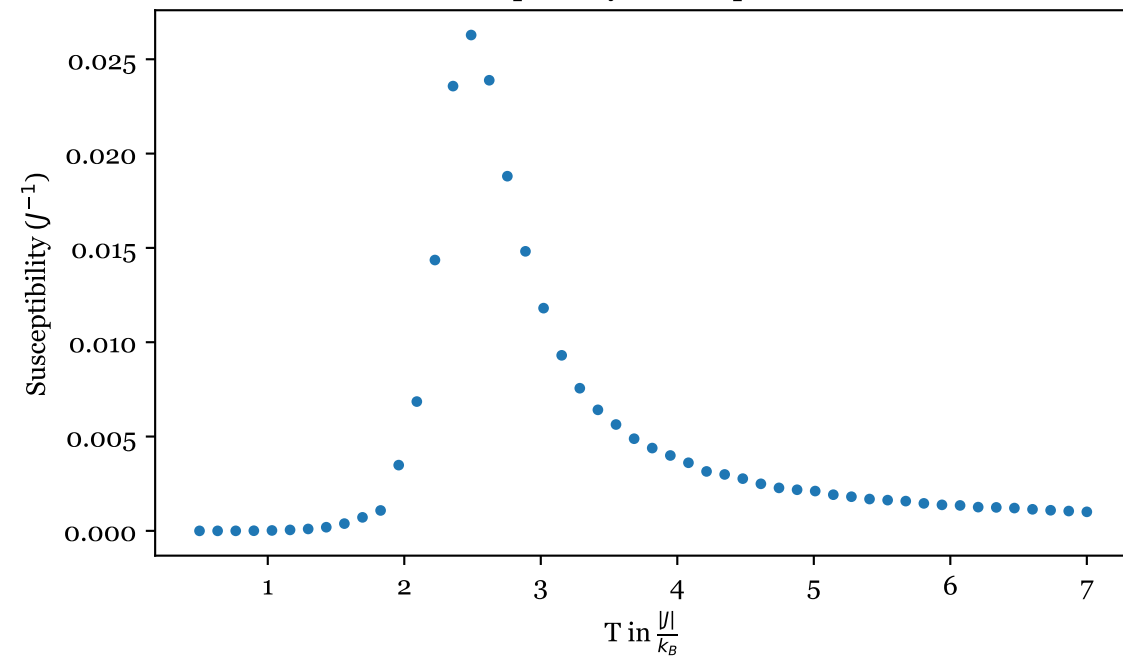
## Magnetisation vs Temperature



## Specific Heat vs Temperature

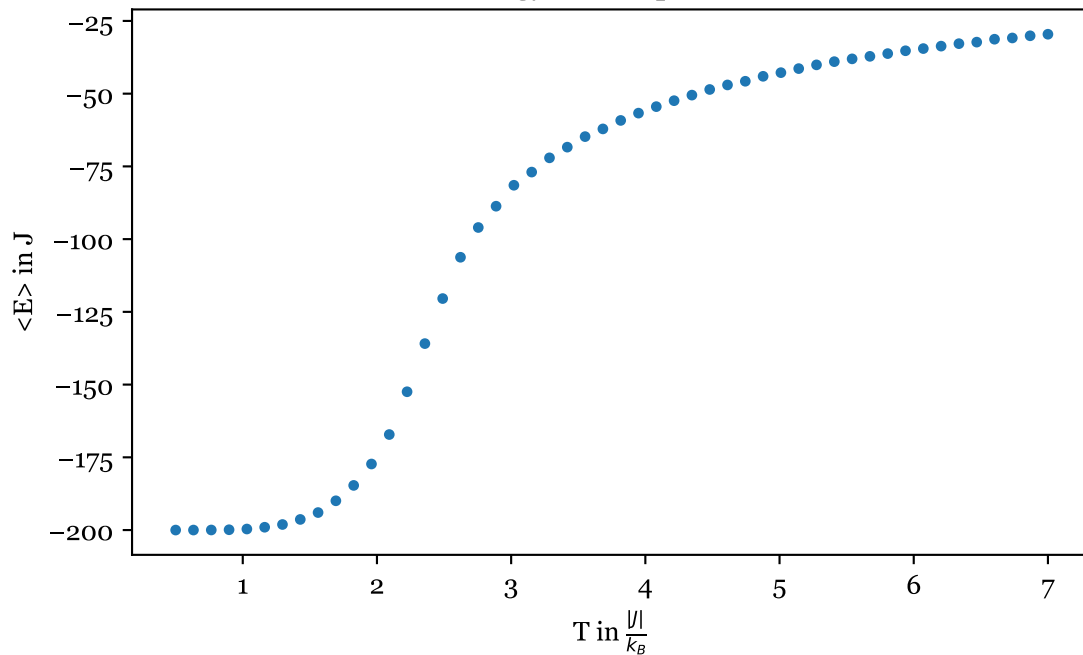


## Susceptibility vs Temperature

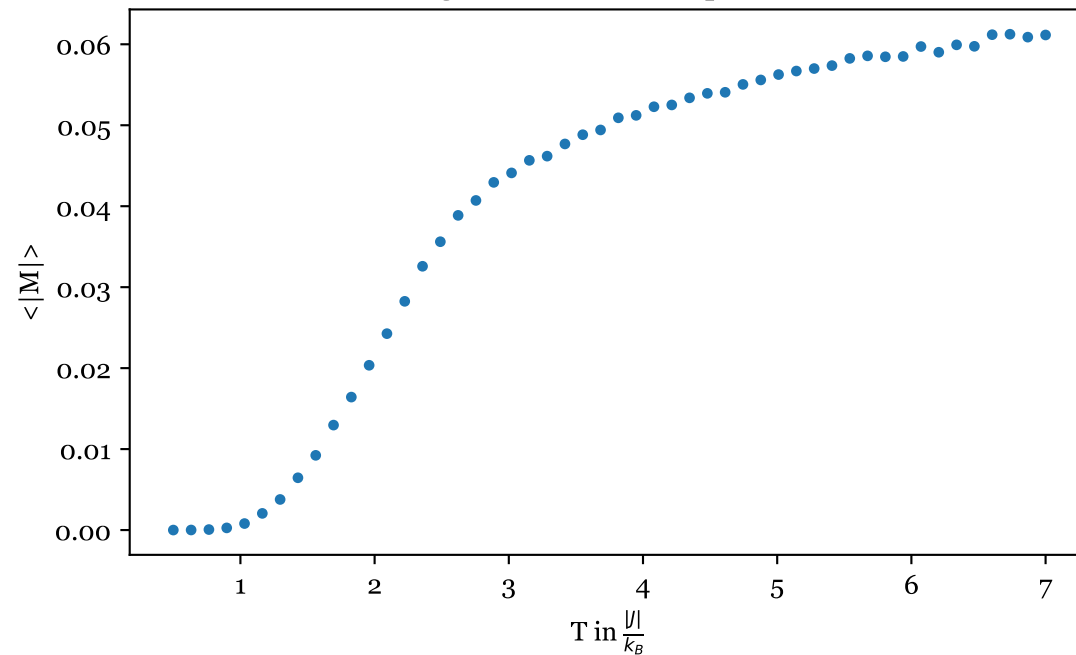


# Antiferromagnetic Square Lattice $J = 1$

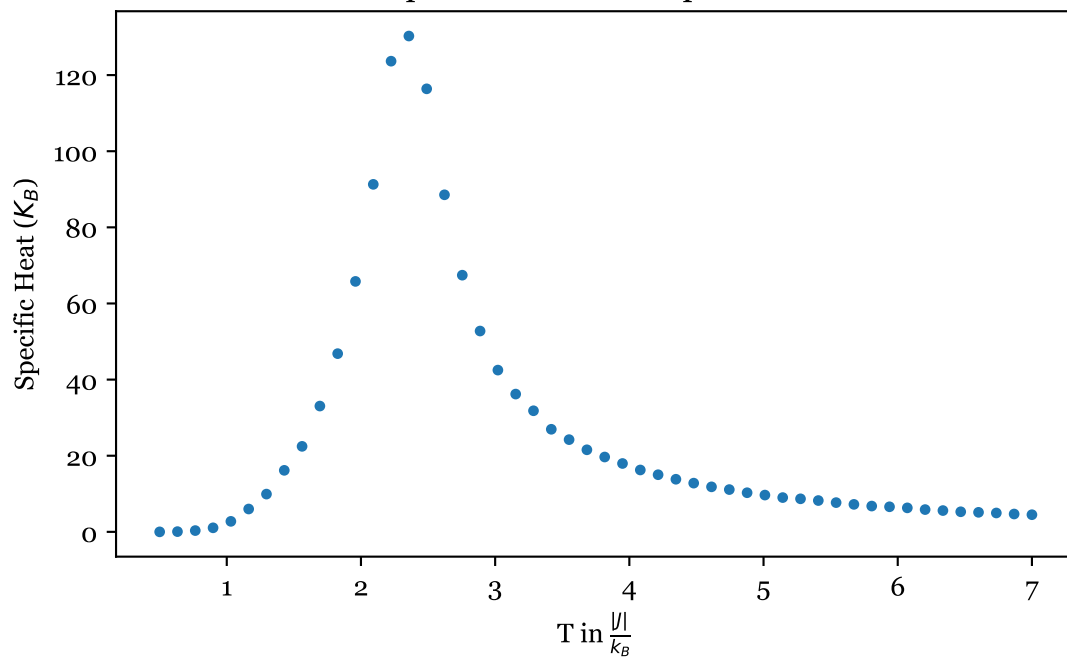
## Energy vs Temperature



## Magnetisation vs Temperature



## Specific Heat vs Temperature



## Susceptibility vs Temperature

