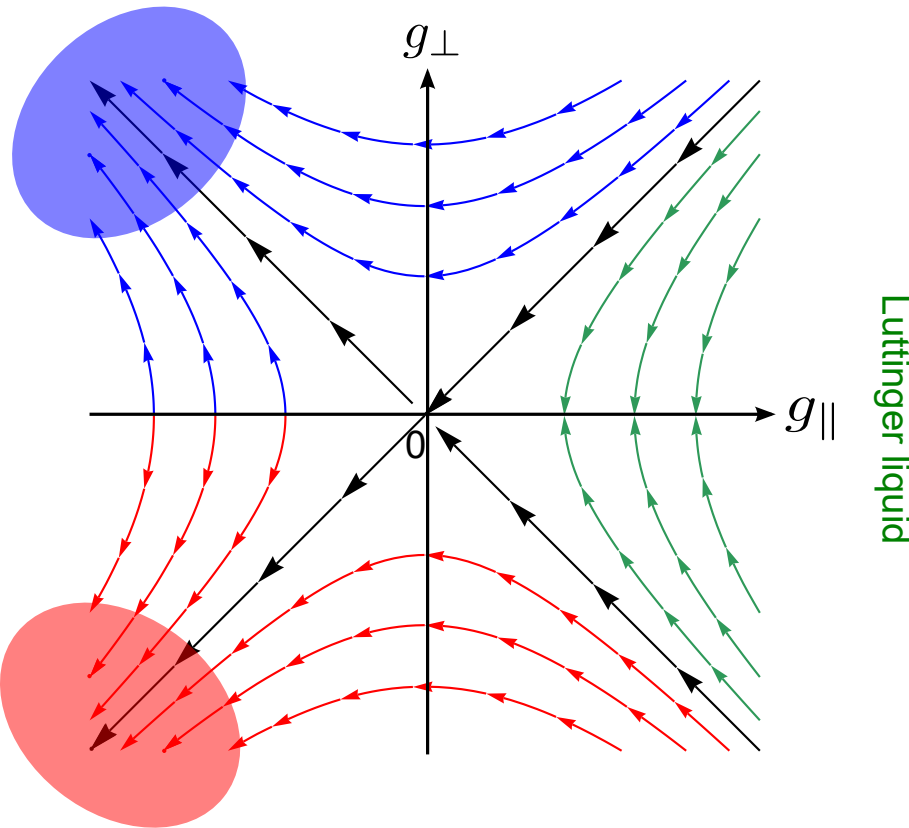


strong coupling:  
SDW (topological)



strong coupling:  
CDW (trivial)

Luttinger liquid