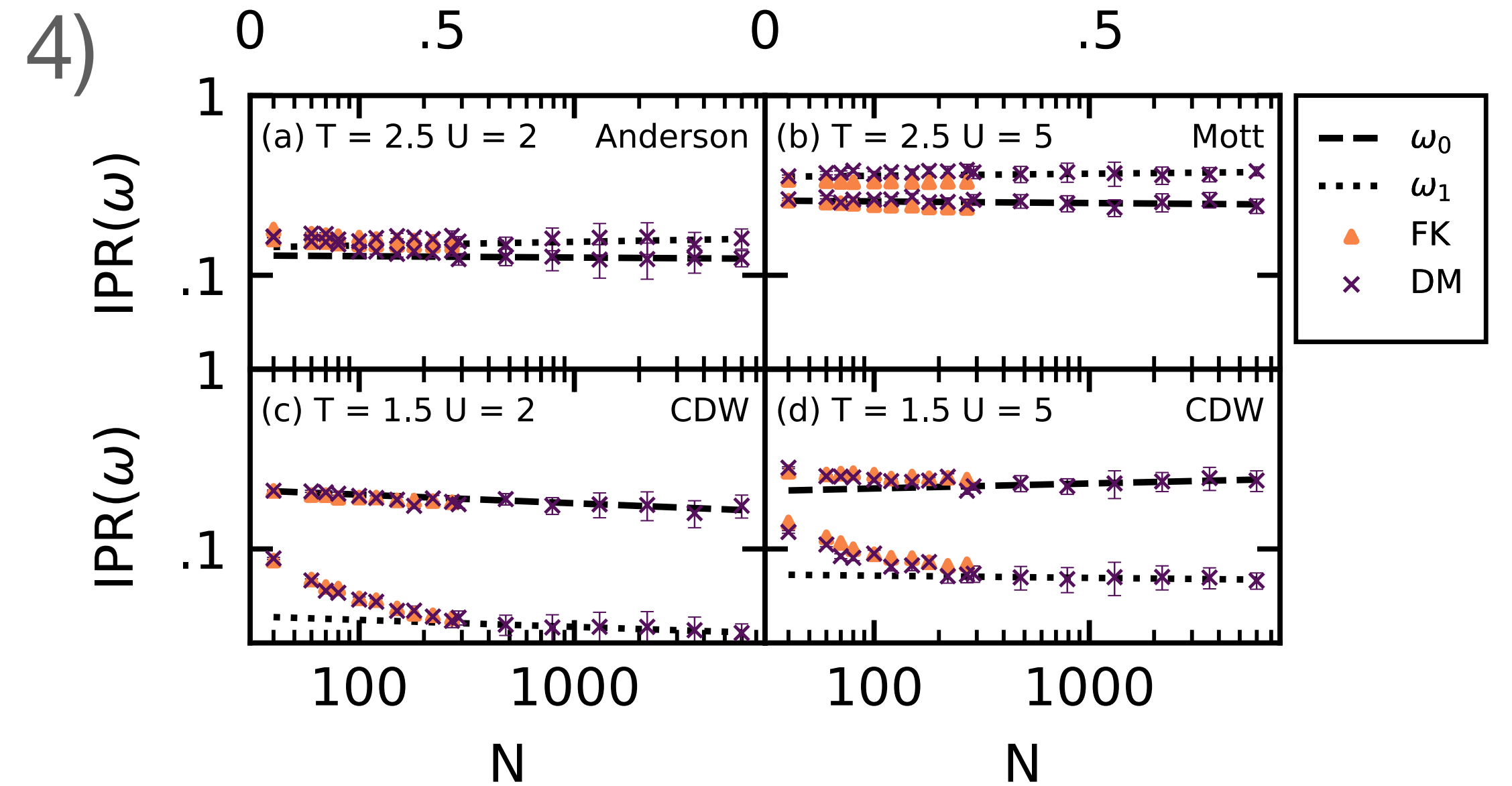
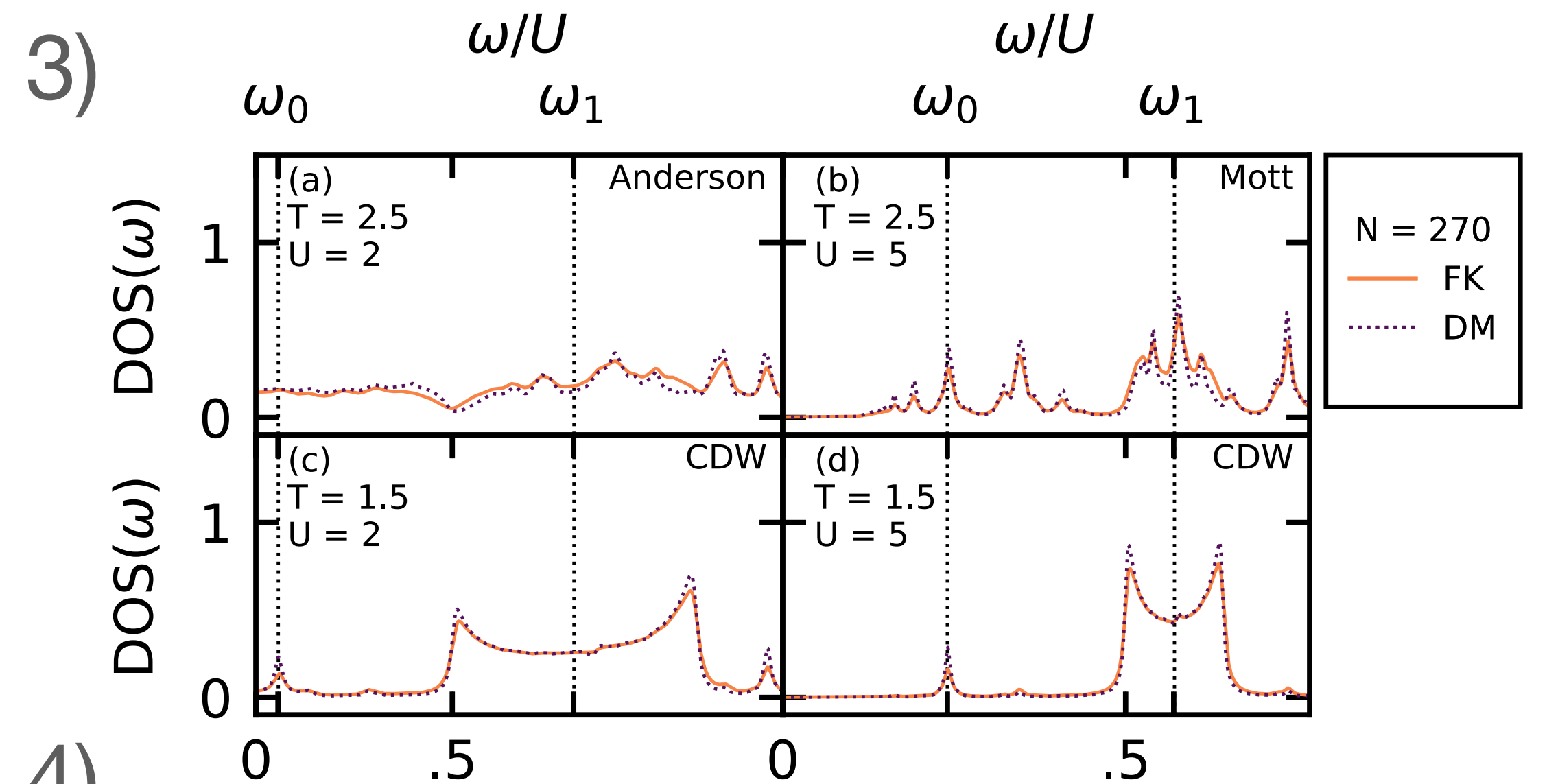
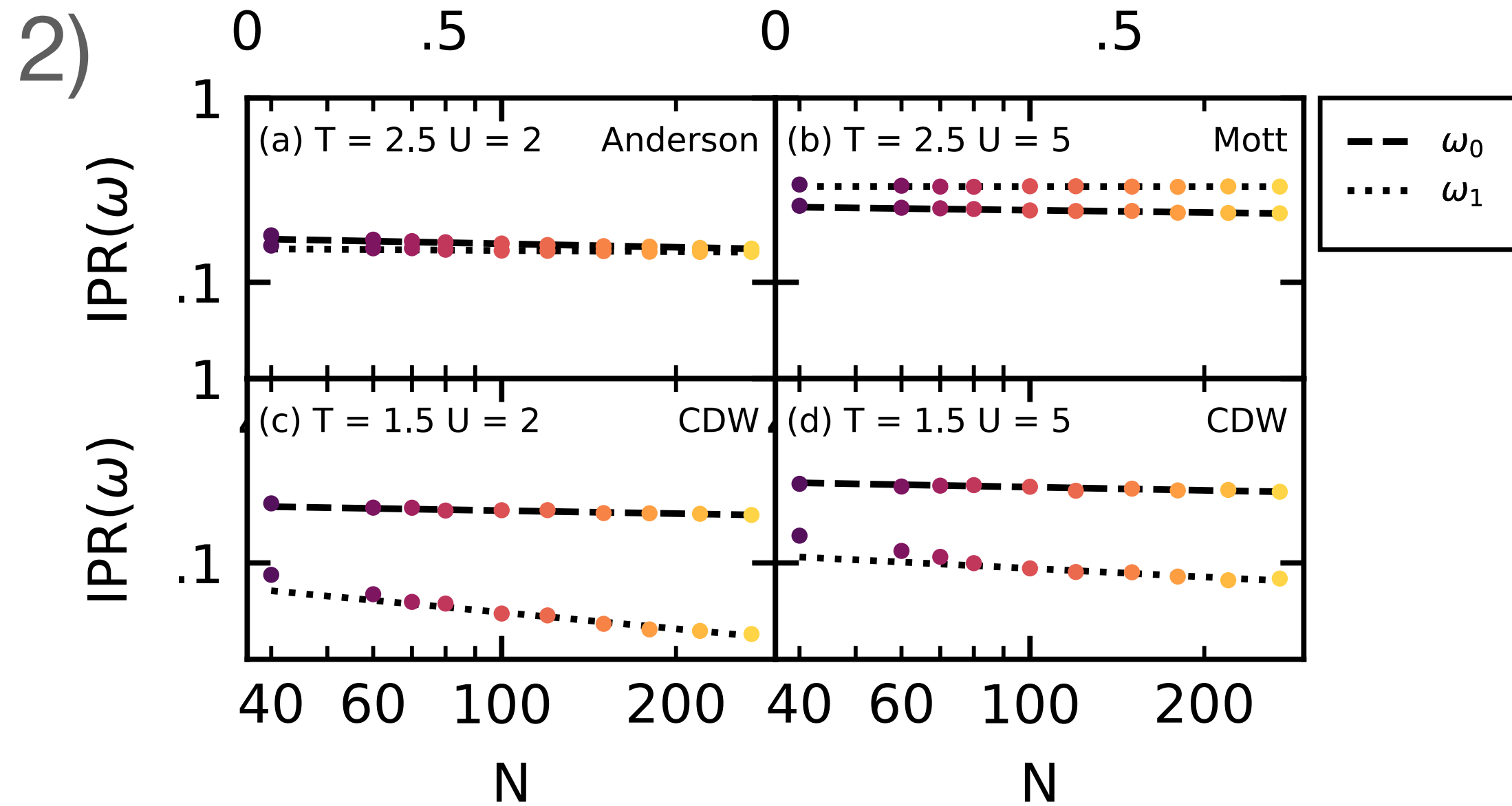
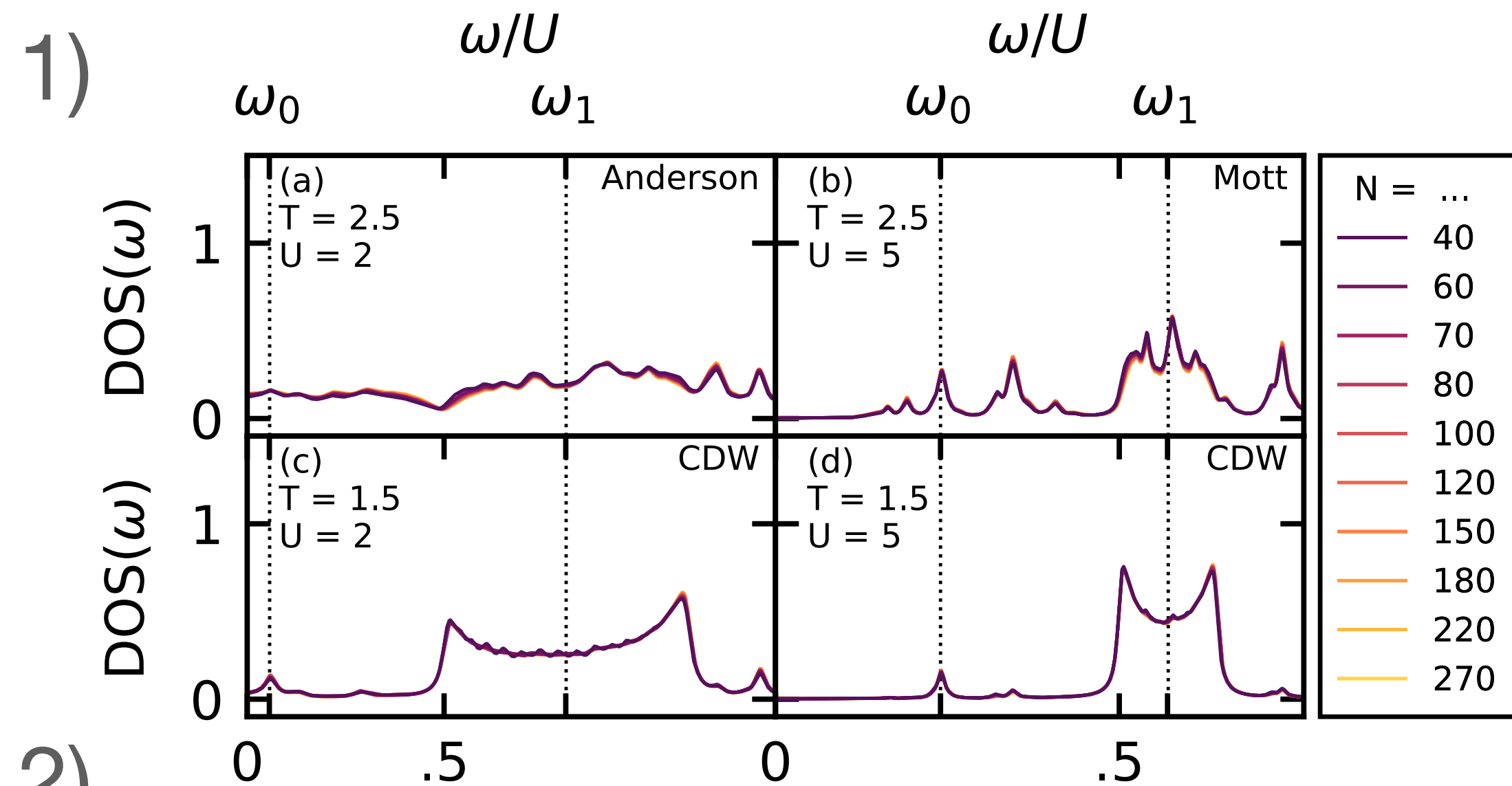


# Results: Localisation



# Summary

- Aimed to bring interesting 2D correlated electron physics down to 1D
- Defined a 1D long ranged Falikov-Kimball Model
- Rich phase diagram and Disorder Free Localisation
- Disorder model: Went to larger  $N$  to pin down the localisation physics.

## Future work

- Finite temperature SSH Model
- Non-equilibrium dynamics
- Cold Atom realisation

Thank you, any questions?

