3.9. Can NEGF Include Everything?

3.9a. Electron-electron interaction gives rise primarily to

- a) both phase and momentum relaxation
- b) momentum relaxation but no phase relaxation
- c) phase relaxation but no momentum relaxation
- d) neither momentum nor phase relaxation
- e) cannot tell, could be any of the above

3.9b. Standard NEGF theory based on many-body perturbation theory

- a) cannot treat elastic scattering
- b) cannot treat inelastic scattering
- c) cannot treat electron-electron interaction
- d) cannot treat electron-electron interaction if the single electron charging energy is larger than other relevant energies
- e) cannot treat electron-electron interaction if the single electron charging energy is smaller than other relevant energies