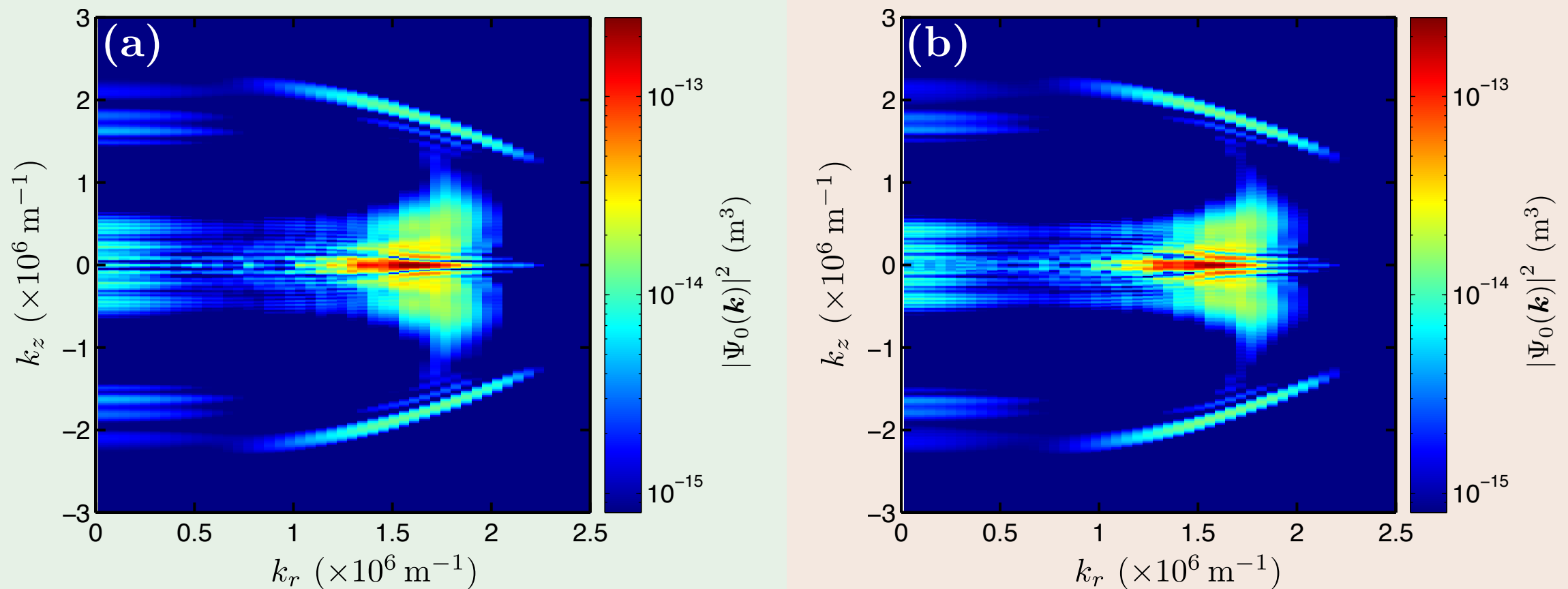
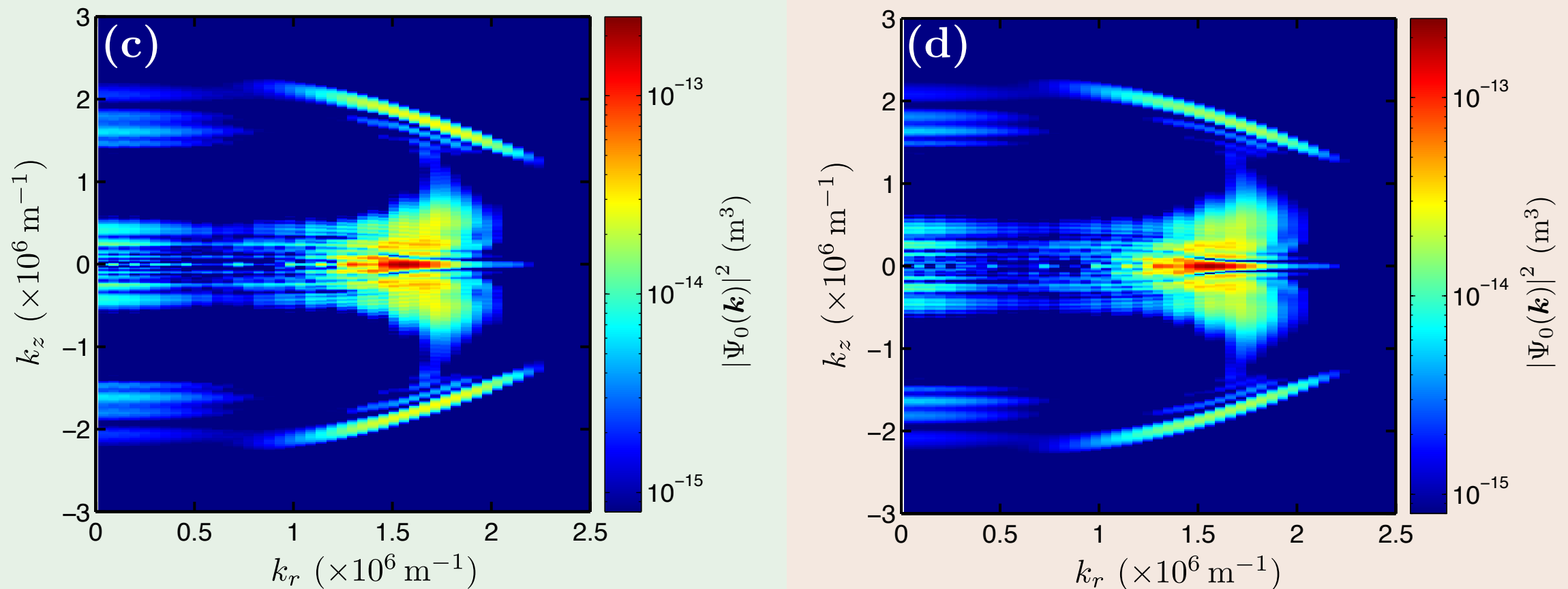


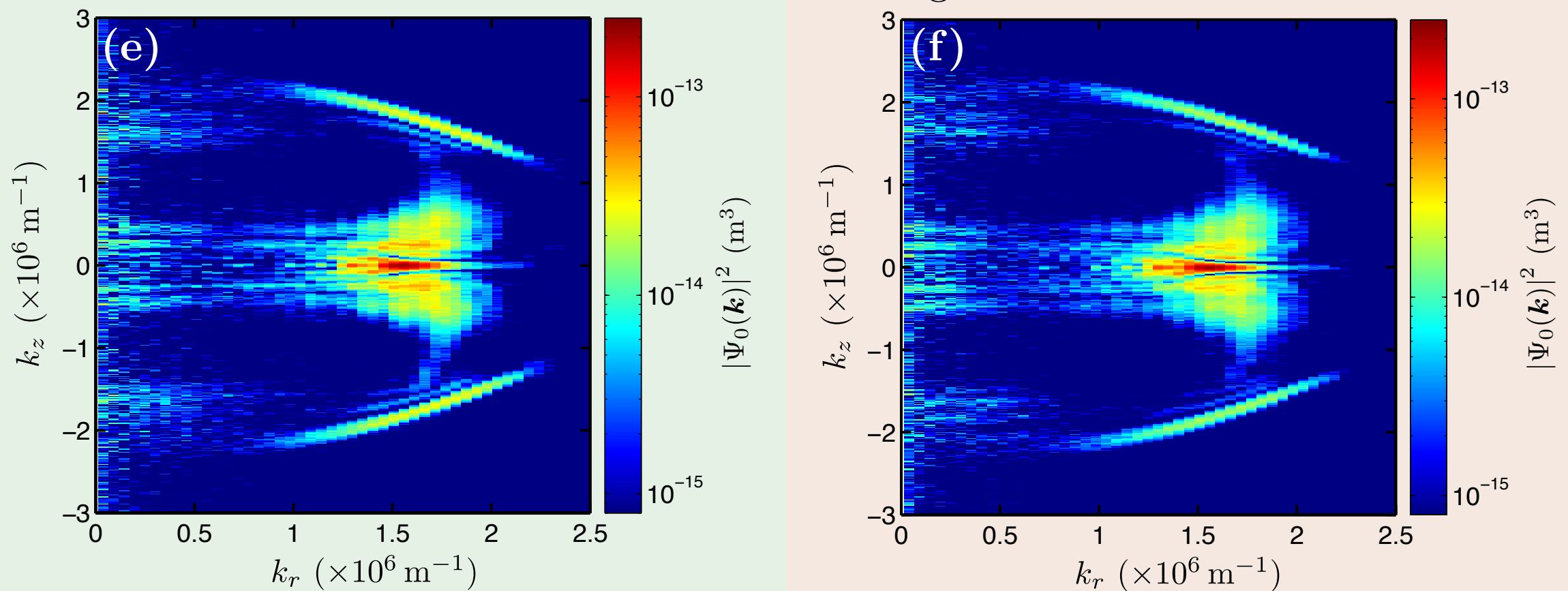
### Three level Gross-Pitaevskii model



### Two level Gross-Pitaevskii model



### Two level Truncated Wigner model



Without Penning ionisation

With Penning ionisation