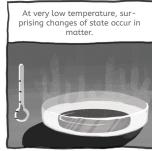
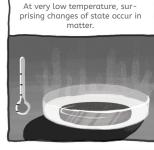




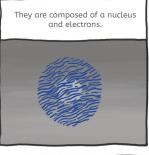
Matter...

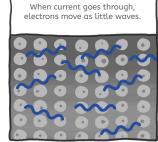


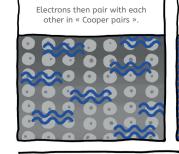


...is made of atoms.

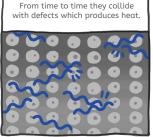


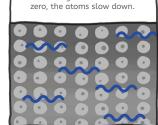




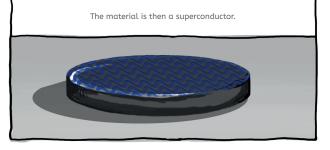


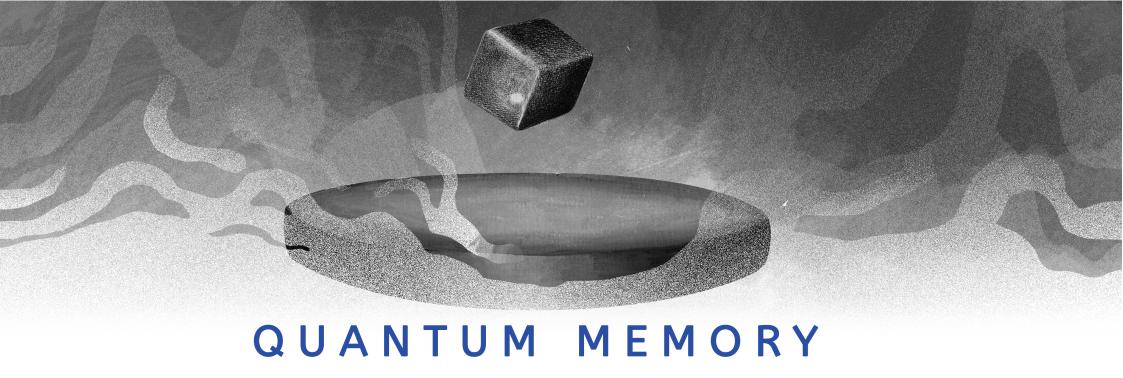






At a few degree above absolute





The Meissner effect

At room temperature, the

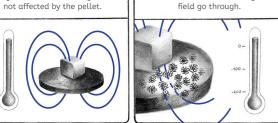
magnetic field of the magnet is



In fact, the disordered movement of the electrons lets the magnetic

The Meissner effect allows

to make magnets levitate.



To experience Meissner Effect, one needs to cool down the material to make it superconducting.



At very low temperature, the electrons gather in a unique collective wave, the condensate.



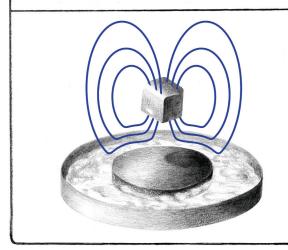
When the magnet is brought nearby, its magnetic field makes the wave swirl.

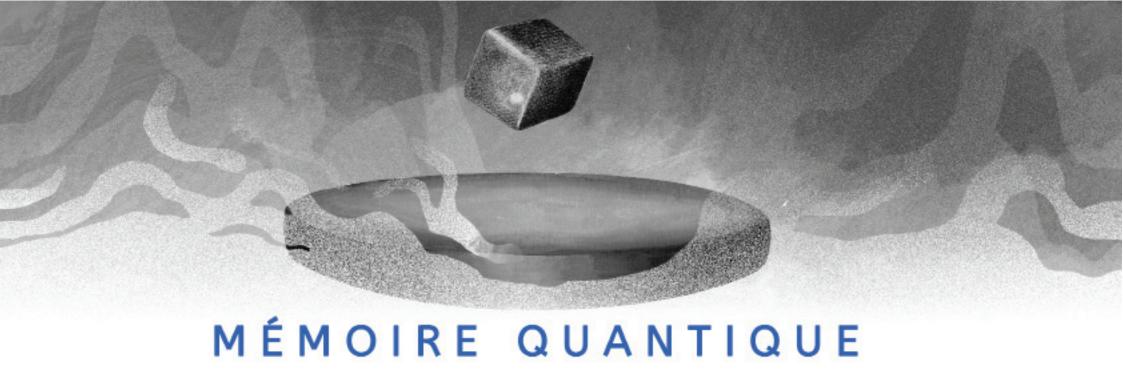


This swirl creates a magnetic field which opposes that of the magnet.



Therefore, the condensate expels the magnetic field of the magnet and makes it levitate.







columns.



