Physics 127b: Statistical Mechanics

Landau Theory of Second Order Phase Transitions

Order Parameter

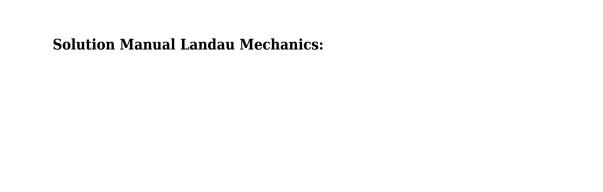
Second order phase transitions occur when a new state of reclused symmetry develops continuously from the disordered (high temperature) phase. The codered phase has a lower symmetry than the Hamiltonian—the phenomenes of spontaneously broken symmetry. These will therefore be a number (sometimes infinite) of equivalent (e.g. equal free energy) symmetry related states. These are macroscopically different, and so thermal fluctuations will not connect one to another in the thermodynamic limit. To describe the ordered state we introduce a macroscopic order parameter that describes the character and strongth of the broken symmetry.

Examples

- Ising ferromagnet: the Hamiltonian is invariant under all s_t → −s_t, whereas the low temperature phase has a spontaneous magnetization, and so is not. A convenient order parameter is the total average spin S = ∑_t (s_t) or the magnetization M = µS. This reflects the nature of the ordering (under the transformation s_t → −s_t we have S → −S) and goes to zero continuously at T_c.
- Ising antiferromagnet on a simple cubic lattice: the ordering is the staggered magnetization N = ∑_n(−1)* (s_n) where alternate sites are labelled even or odd.
- Heisenberg ferromagnet: now the Hamiltonian is invariant under any rotation of all the spins together.
 The ordering is characterized by a vector order parameter. A convenient choice is again the total spin S = ∑_i (s̄_i) or magnetization.
- Heisenberg antiferromagnet on a simple cubic lattice: the staggered magnetization is now a vector N
 = ∑_n (−1)ⁿ (ŝ_n).
- 5. Superfluid: the broken symmetry is the invariance of the (quantum) Hamiltonian under a phase change of the wave function. Since for a charge system a gauge transformation also changes the quantum phase, this is also known as broken gauge symmetry. The order parameter can be thought of as the one particle wave function into which the particle Bose condense, multiplied by the number of condensed atoms. This picture is good for a non- or weakly interacting system. For a strongly interacting system a better definition is the "expectation value of the particle annihilation operator" (ψ(F)).
- 6. Solid: has broken translational and rotational symmetry, and a convenient order parameter is the amplitude of the density wave. In these dimensions the liquid-solid transition is always first order, but in two dimensions may be second order.
- 7. Nematic liquid crystal: consists of long molecules which align parallel to one another at low temperatures, although the position of the molecules remains disorder as in a liquid. The liquid becomes anisotropic, and a second rank tensor characterizes the strength of the anisotropy and can be used as the order parameter.

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