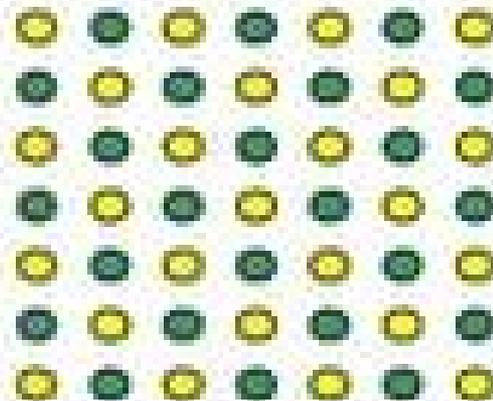
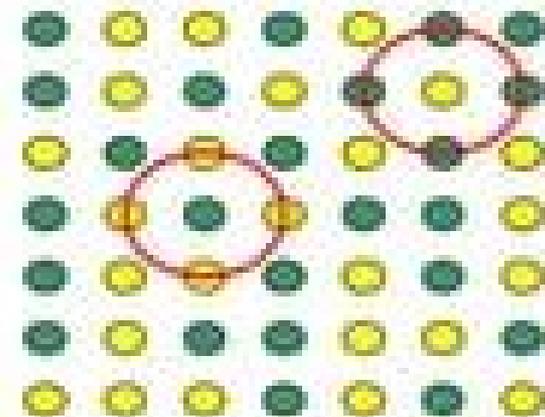


- The degree of freedom that is ordered or disordered can be translational (crystalline ordering), rotational (ferroelectric ordering), or a spin state (magnetic ordering).
- Depending on how the correlations decay with distance, one speaks of **long-range order** or **short-range order**.



Long-range order (LRO):

Differentiation ΔP of probabilities of particular sublattice sites being occupied by particular atoms.



Short-range order (SRO):

Tendency for A-(B) atoms to be preferentially surrounded by B- or A-atoms (*correlation functions*).

- If a disordered state is not in thermodynamic equilibrium, it is **quenched disorder**. For instance, a glass is obtained by quenching (supercooling) a liquid.
- Some other quenched states are called spin glass, orientational glass and the opposite of quenched disorder is **annealed disorder**.

Uniform Order And Disorder

R Barnett



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