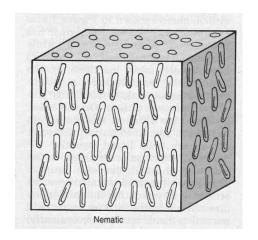
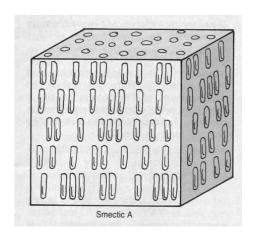
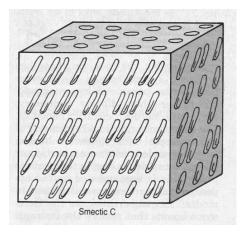
Liquid crystal phases [tsl51]

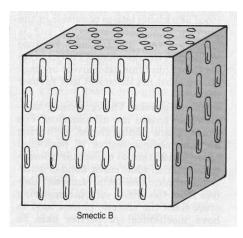
Most common liquid crystal phases.

- **Nematic**: Molecular orientational ordering. Continuous rotational symmetry about *director*.
- Smectic A: Nematic ordering plus density wave along symmetry axis (director).
- Smectic C: Smectic A ordering with broken rotational symmetry. Density wave not perpendicular to director.
- Smectic B: Smectic A ordering plus density wave perpendicular to director.









[Physics Today, May 1982]