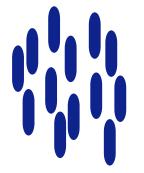
Liquid Crystals

Decreasing Temperature

Isotropic

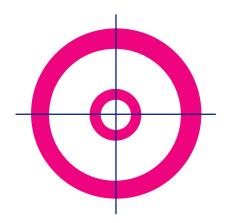


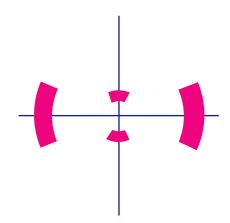
No positional order No orientational order Nematic

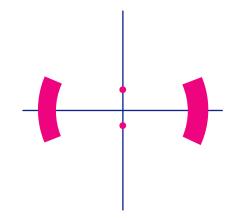


No positional order Orientational order Smectic

Quasi one dimensional positional order Orientational order

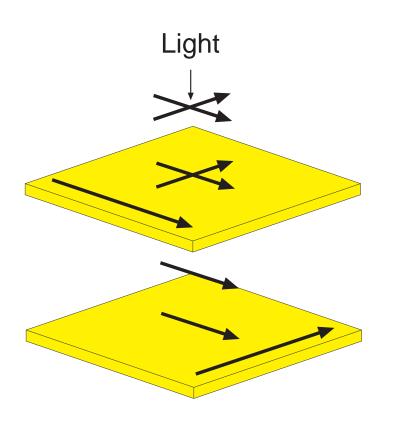




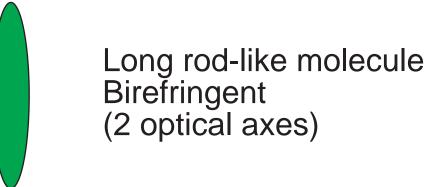


Polarizers

Crossed Polarizers



Visualize defects in liquid crystals Phase transitions Sunglasses



Liquid Crystal Display

