

Chapter 1

Chirality on Demand: The Discovery of activated Chirality in Achiral Bent-Cores

1.1 A history of de Vries phases in liquid crystals

1.2 Characteristic behaviour of the bent-core de Vries phase

1.2.1 Textures of bent-code de Vries phase

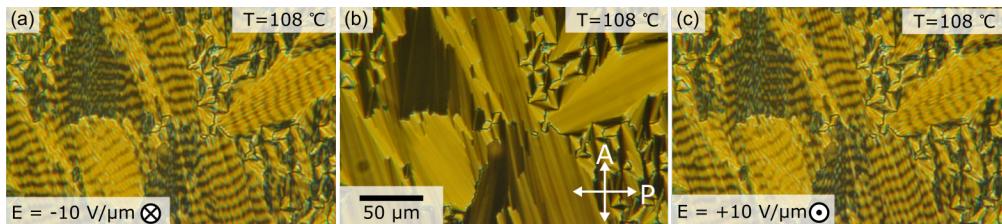


Figure 1.1:

1.2.2 Electro-optics of bent-core de Vries phase

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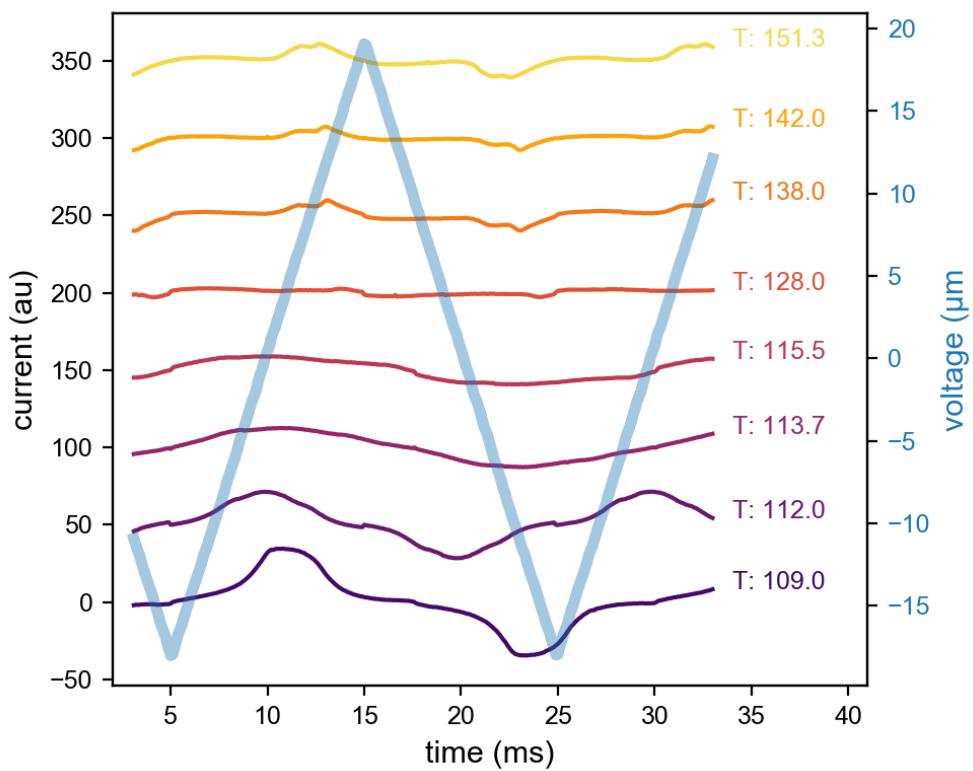


Figure 1.2:

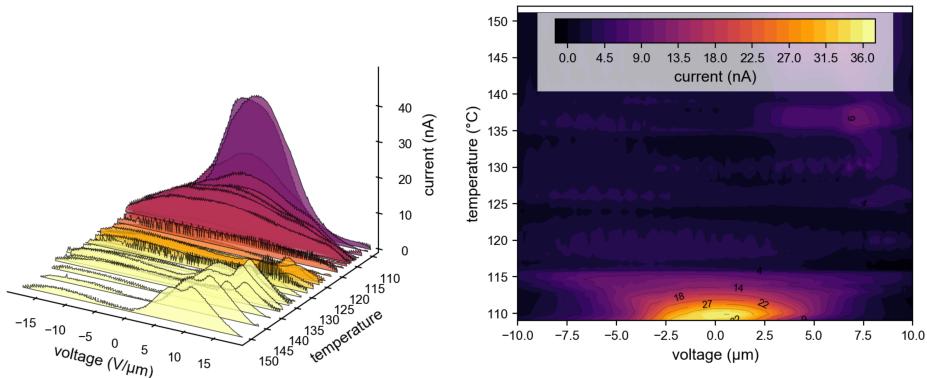


Figure 1.3:

1.2.3 X-ray analysis of bent-core de Vries phase

1.3 Model for the bent-core de Vries phase

Bibliography