

Liquid crystals for novel electro-optical applications

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Liquid crystals are ubiquitous as materials for flat panel displays, a technology that is now mature. However, these functional, responsive materials have potential for use in many areas beyond displays. We will work with Merck, a global company with liquid crystal materials expertise, to develop novel non-display applications of liquid crystals.

The project will focus on the electro-optical properties of liquid crystals for optical applications including dynamic focusing, beam steering etc. Novel device geometries, electro-optic modes and materials will all form aspects of the project.