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Colorimetry characterization of molecular reorientation transition in thin nematic cells

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Change of color associated with the molecular reorientation transition in liquid crystals



Photo by Domenico Loia on Unsplash

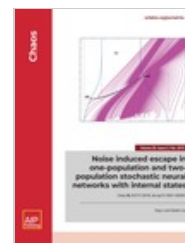
What is it about?

The color perceived by the human eye can currently be captured with a digital camera. In this way, we can identify transitions that involve color changes. Our challenge was to characterize the transition of molecular reorientation with simple laboratory elements.

Why is it important?

The transition of molecular reorientation is a parameter to consider in liquid crystals device, our characterization method uses elements simples such as microscope and digital camera and image analysis based in hue-lightness-saturation.

Perspectives



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It is to find simple tools such as image analysis to characterize different complex phenomena

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