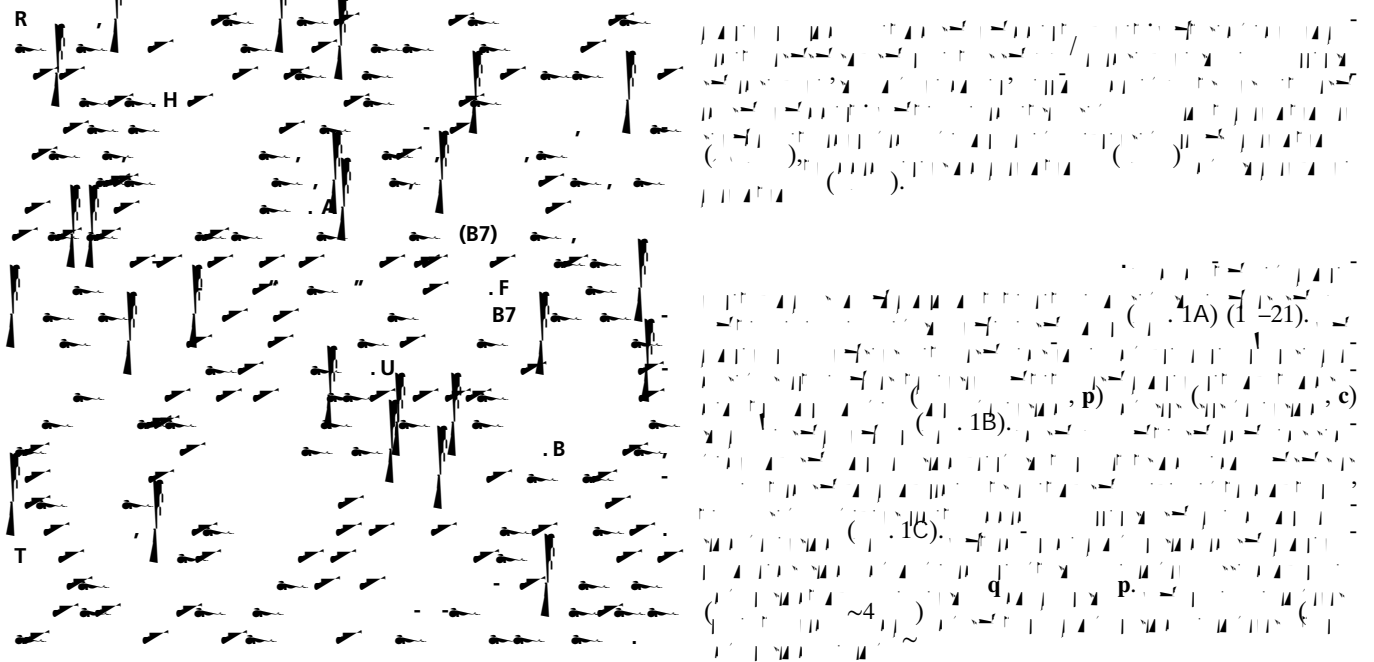


# Organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement

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topographical confinement | monodomain | banana shaped | anchoring

**L**iquid crystal phases are characterized by their unique combination of order and fluidity. The organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement is a complex phenomenon that involves the interplay of various factors, including the geometry of the confinement, the anchoring conditions, and the intrinsic properties of the liquid crystal molecules. This study explores the organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement, focusing on the monodomain, banana shaped, and anchoring aspects. The results show that the organization of the phase is highly sensitive to the topographic confinement, and that the monodomain, banana shaped, and anchoring aspects play a crucial role in determining the final organization of the phase. The study also highlights the importance of the anchoring conditions in the organization of the phase, and shows that the anchoring conditions can significantly influence the organization of the phase. The results of this study provide valuable insights into the organization of the polarization splay modulated smectic liquid crystal phase by topographic confinement, and have important implications for the design and optimization of liquid crystal devices.





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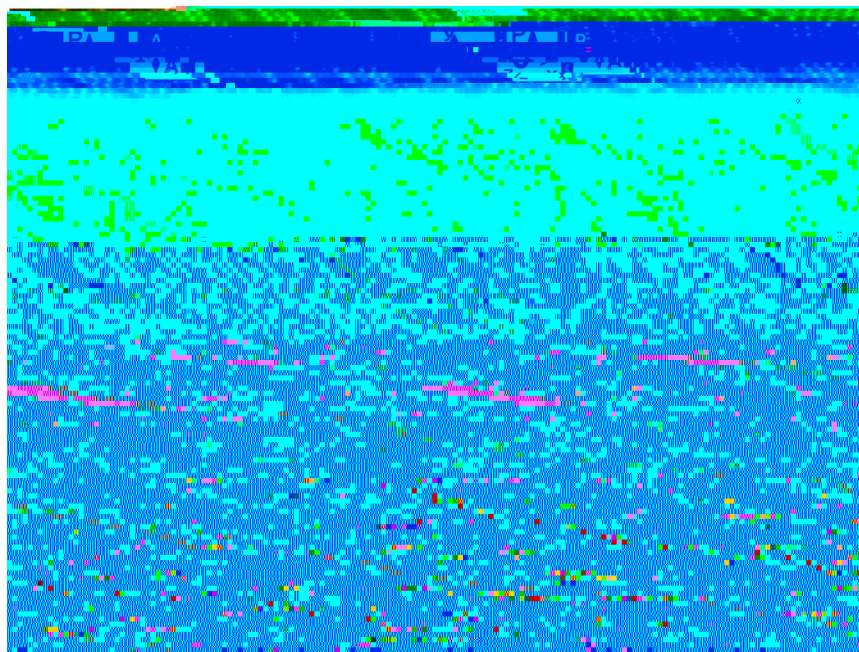
(1, 1).  
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10.1073/ 1014593107



F . S1. Depolarized reflected light microscopic (DRLM) images of the channel confined B7 phase shows beautiful periodic optical textures over large areas. Rotating the sample through angles *A*, 0°, *B*, 10°, *C*, 30°, and *D*, 45° shows that the average optic axis is parallel

