Numerical Methods and New Perspectives for Extended Liquid Crystalline Systems

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ORGANIZING COMMITTEE
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PROGRAM DESCRIPTION

Liquid crystals (LCs) are classic examples of partially ordered materials that combine the fluidity of liquids with the long-range order of solids, and have great potential to enable new materials and technological devices. A variety of LC phases exist, e.g. nematics, smectics, cholesterics, with a rich range of behavior when subjected to external fields, curved boundaries, mechanical strain, etc. Recently, new systems came into focus, such as bent-core LC phases, twist-bend-modulated nematics, chroomics and polymer-stabilized blue phases, with more to be discovered.

This workshop provides an interdisciplinary platform for computational and experimental research in extended LC-like systems, and how these approaches can yield new theoretical insight for novel LC systems.

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Proposals being accepted: Semester Program, Topical Workshop, Small Group Research Program, Summer Undergrad Program

Applications being accepted: Semester Program or Workshop, Postdoctoral Fellowship

Sponsorships being accepted: Academic or Corporate

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