

Nematic Liquid Crystal Droplets

Fanghua Lin

Courant Institute, New York University,
251 Mercer Street, New York, NY. 10012, USA
linf@cims.nyu.edu

Liquid crystal droplets are of great interest from both the theory and applications. They are important in the study of the topological defects (in a bulk or on a surface), in understanding of the surface energy and anchoring conditions. Rigorous mathematical analysis are challenging. In this lecture I shall describe some ongoing work concerning the shape of liquid crystal droplets and the associated orientation configurations.