

Arghir Zarnescu
University of Sussex

**Point defects in liquid crystal models: between Oseen-Frank and
Landau-de Gennes**

Abstract

We will present recent progress on the study of point defects in the Q -tensor framework, focusing on qualitative features and energetic stability. We will also explore the relationships with the underlying Oseen-Frank theory. This is based on several works done in collaborations with Giovanni di Fratta, Radu Ignat, Luc Nguyen, Georgy Kitavtsev, Jonathan Robbins and Valeriy Slastikov.