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Field-induced smectic phases in liquid crystals

We will discuss a phenomenological Landau energy introduced by Vaupotič and Čopič to study the onset of layer-undulated structures, induced by an applied electric field, in bent-core molecules liquid crystals. We will also present an analysis of the chevron structure in Smectic A liquid crystals due to magnetic fields, as modelled by a Chen-Lubensky energy. We will refer to joint work with Carlos García-Cervera and Sookyung Joo.