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Anisotropic models in superconductivity

We describe joint work with S. Alama and L. Bronsard, which aims at studying models used to describe anisotropic superconductors: the anisotropic Ginzburg–Landau model and the Lawrence–Doniach model. We will describe the energy minimizers in a variety of regimes, focusing on the orientation of the induced magnetic field, and show evidence of the so-called vortex pancake structure.