Refined asymptotics for Landau-de Gennes minimizers on planar domains

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In our previous work, we studied asymptotic behavior of minimizers of the Landau-de Gennes energy functional on planar domains as the nematic correlation length converges to zero. I will describe a recent improvement upon those results, in particular by sharpening the description of the limiting map of the minimizers. I will also provide an expression for the energy valid for a small, but fixed value of the nematic correlation length.

Contact :