

# Dimension reduction for the Landau-de Gennes model of nematic films on surfaces

Dmitry Golovaty<sup>\*</sup>

[dmitry@uakron.edu](mailto:dmitry@uakron.edu)

---

I will present the dimension reduction procedure for the Landau-de Gennes model describing a nematic film deposited on a general surface. I will also discuss the structure of limiting-energy-minimizing configurations for some simple examples.

*This is joint work with Peter Sternberg and Alberto Montero.*

---

<sup>\*</sup>Department of Theoretical and Applied Mathematics, The University of Akron, Akron, OH 44325-4002, USA.