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Dmitry Golovaty* (dmitry@uakron.edu), Department of Mathematics, The University of Akron, Akron, OH 44325-4002. *Electroosmosis in nematic liquid crystals.*

I will discuss electroosmosis in thin nematic liquid crystalline films over patterned surfaces. The presence of ions in a nematic matrix, coupled with a director-dependent anisotropic conductivity results in a nematic flow. This is a joint work with Carme Calderer, Noel Walkington, and Oleg Lavrentovich. (Received August 11, 2015)