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William M Feldman* (feldman@math.uchicago.edu), 5734 S University Ave, Department of Mathematics, Chicago, IL 60637. *Shapes of local minimizers for the Alt-Caffarelli functional in inhomogeneous media.*

I will explain how to classify the macroscopic shapes of local minimizers to the Alt-Caffarelli functional with a periodic inhomogeneity. This is related to pinning and hysteresis phenomena for contact line motion in inhomogeneous environments. (Received August 17, 2018)