ON THE SHAPE OF SMALL LIQUID DROPS MINIMIZING NONLOCAL ENERGIES

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We study the equilibrium shape of liquid drops minimizing the fractional perimeter under the action of a potential energy. We prove, with a quantitative estimate, that the small volume minimizers are convex and uniformly close to a ball. This is a joint work with Matteo Novaga (Pisa) and Fumihiko Onoue (München).