

Matteo Novaga

A symmetry result for the Ornstein-Uhlenbeck operator

In 1978 De Giorgi formulated a conjecture concerning the one-dimensional symmetry of monotone solutions to the Allen-Cahn equation. I will present an analogous result for a semilinear equation where the Laplacian is replaced by the Ornstein-Uhlenbeck operator. I will also discuss some connections with the Bernstein Problem in the Gauss space, and the homothetic solutions to the Mean Curvature Flow.