

DIPARTIMENTO DI MATEMATICA - UNIVERSITÀ DI PISA

**NEW TRENDS IN PARTIAL DIFFERENTIAL EQUATIONS
AND APPLICATIONS**

2014, February 20th - 21st

**Local and global minimality results
for a nonlocal isoperimetric problem**

Massimiliano Morini (Università degli Studi di Parma)

We consider the sharp interface Ohta-Kawasaki functional related to the modeling of diblock copolymers. After reviewing the model and a local minimality criterion recently established, we present several applications to the study of the stability and the global minimality of striped patterns.