

Nonlocal Cahn-Hilliard models

Julián Toledo

Universitat de València

We present the study of a nonlocal Cahn-Hilliard model in the framework of random walk spaces, which includes, as particular cases, the model on finite weighted graphs or the model driven by convolution integrable kernels. We consider different transitions for the phase and the chemical potential, and a large class of potentials including obstacle ones.

Acknowledgments. Supported by the Spanish MCIU and FEDER, project PGC2018-094775-B-100 and by Conselleria d'Innovació, Universitats, Ciència y Societat Digital, project AICO/2021/223.