

# INSTABILITY OF STATIONARY SOLUTIONS TO ALLEN-CAHN TYPE OPINION FORMATION MODELS

Alex ROSSI

*FAU Erlangen-Nürnberg*

alex.rossi@fau.de

In this poster, we would like to introduce an Allen-Cahn type equation obtained from an integro-differential Boltzmann equation for the description of opinion formation and perform a linear stability analysis with the help of some classical tools of spectral theory. Our analysis is focused on both a nonlinear and a simplified linear model and such models are investigated from the numerical point of view as well. This is a joint work with Martin Burger (DESY) and Nadia Loy (Politecnico di Torino).