

## LONG TIME BEHAVIOR FOR A PHASE-FIELD MODEL

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In this talk, we established the existence of weak solutions for a three coupled phase-field model with homogeneous Dirichlet boundary conditions. After that, the existence of a global attractor for the associated (multi-valued) dynamical system is proved. Finally, we provide a more detailed description of the asymptotic behavior of solutions. Indeed, we obtain a characterization of the elements belonging to the omega-limit sets of singletons.

This is a joint work with Pedro Marín-Rubio (Universidad de Sevilla, Espanha).