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Rim Mheich - Cahn-Hilliard equation with regularization and proliferation term

mardi 4 juin 2024 14:00 (30 minutes)

I would like to present briefly some of the work that I have
done in my thesis. We are interested in the Cahn-Hilliard equation with a
regularization term. First, the equation is endowed with Neumann boundary
conditions, we prove the existence and uniqueness of the solution and the regular
and logarithmic cases. Then, study the asymptotic behavior of the solution for the
regular case. Second, we take the same equation but now with Dirichlet boundary
conditions and prove the strict separation property for the logarithmic term.